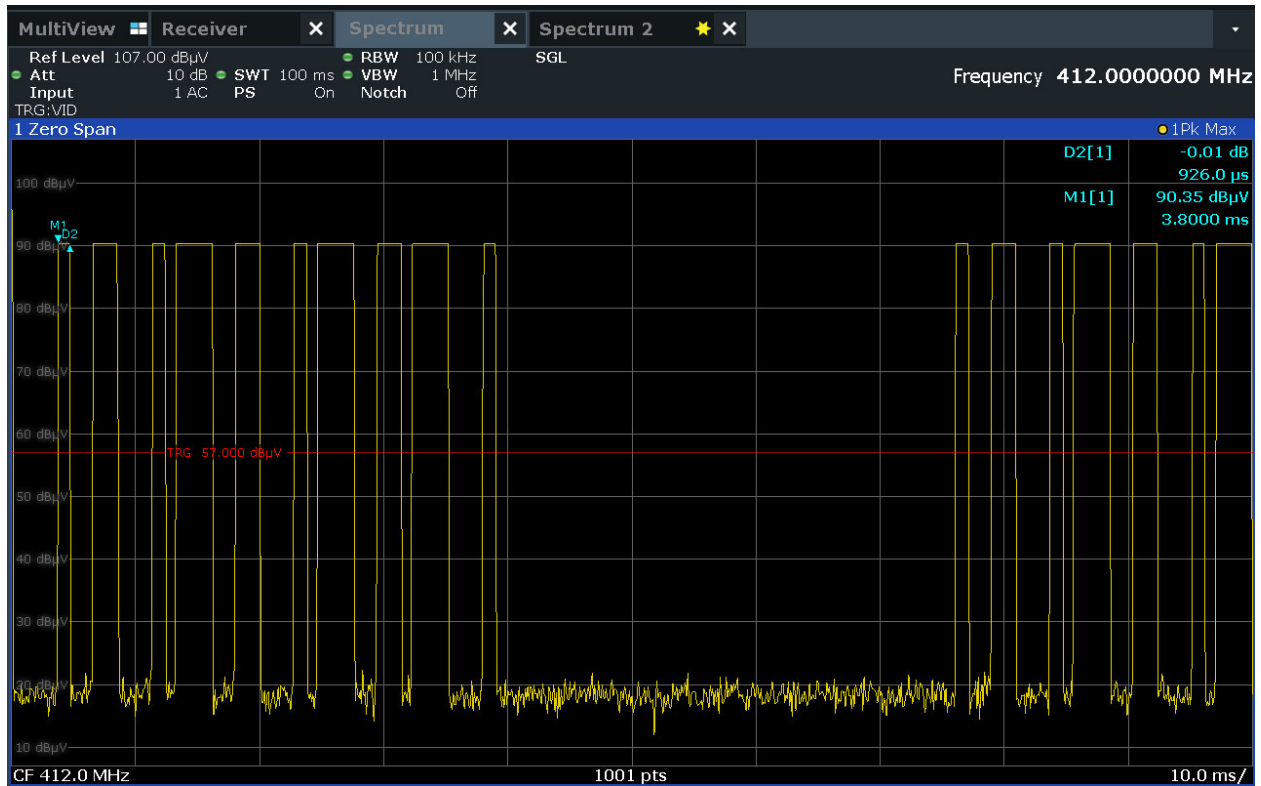




Duty Cycle Factor Measurements

Manufacturer : Genie

Model Number : EDCM87

Serial Number : Antenna Port Conducted Sample

Mode : Tx

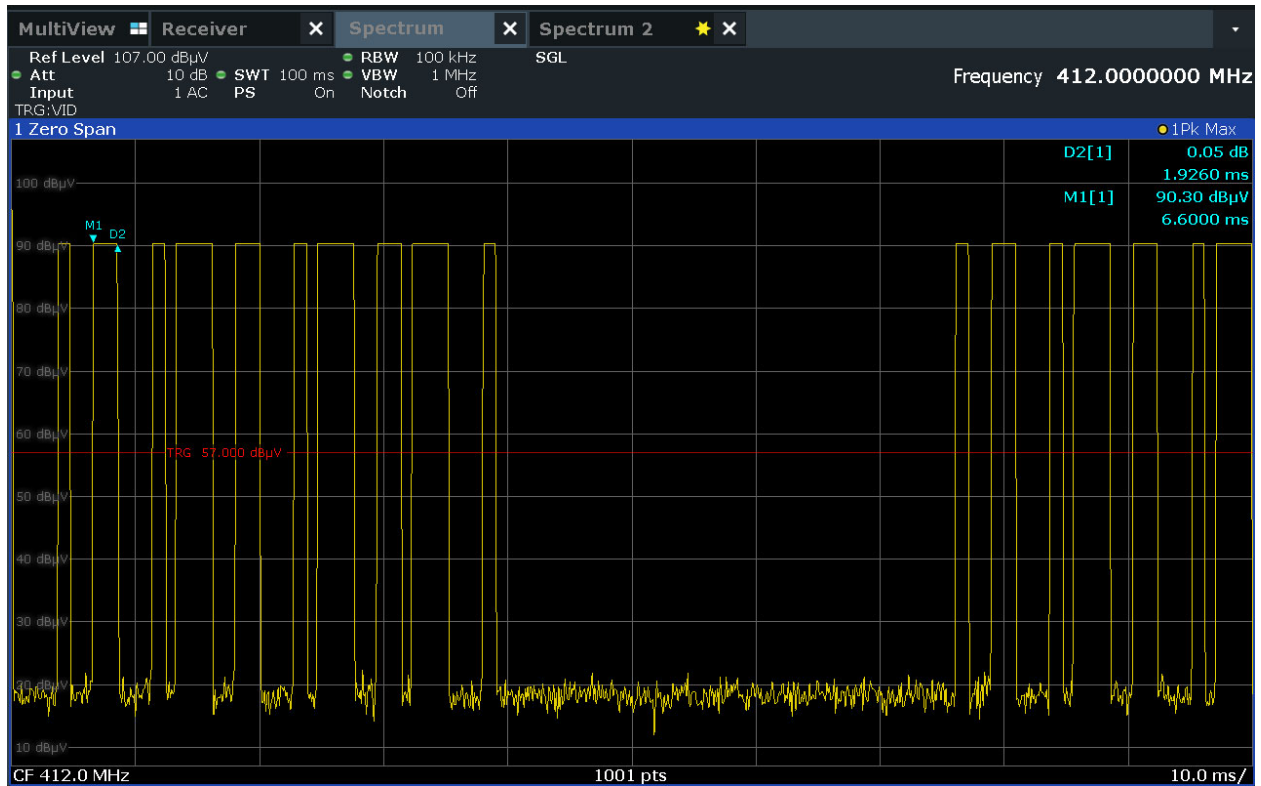
Line Tested : Antenna Port - 412MHz

Parameters : Short Length

Date : 2/11/2026 2:27:00 PM

Notes : Genie 9 Switch / 3 Position Dip Switch, 1993-1995

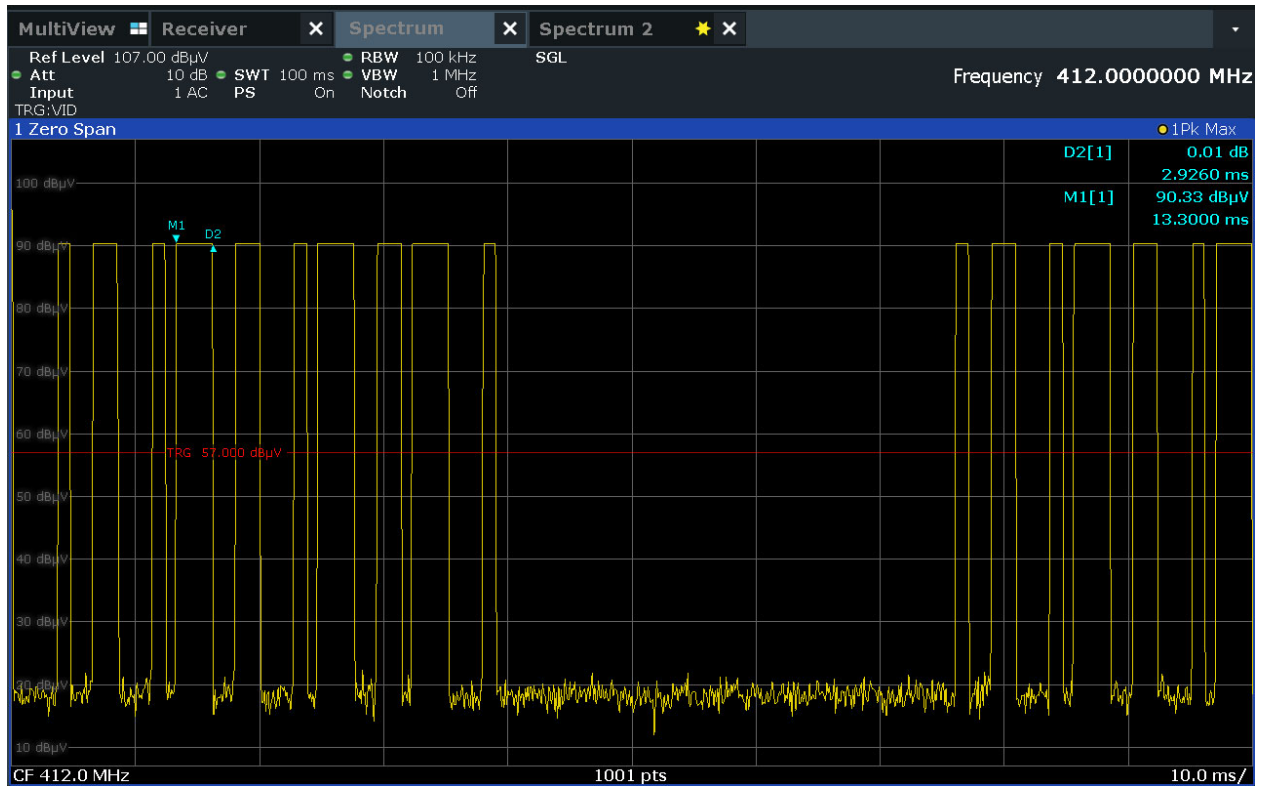
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 412MHz
Parameters : Medium Length
Date : 2/11/2026 2:27:32 PM
Notes : Genie 9 Switch / 3 Position Dip Switch, 1993-1995

TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

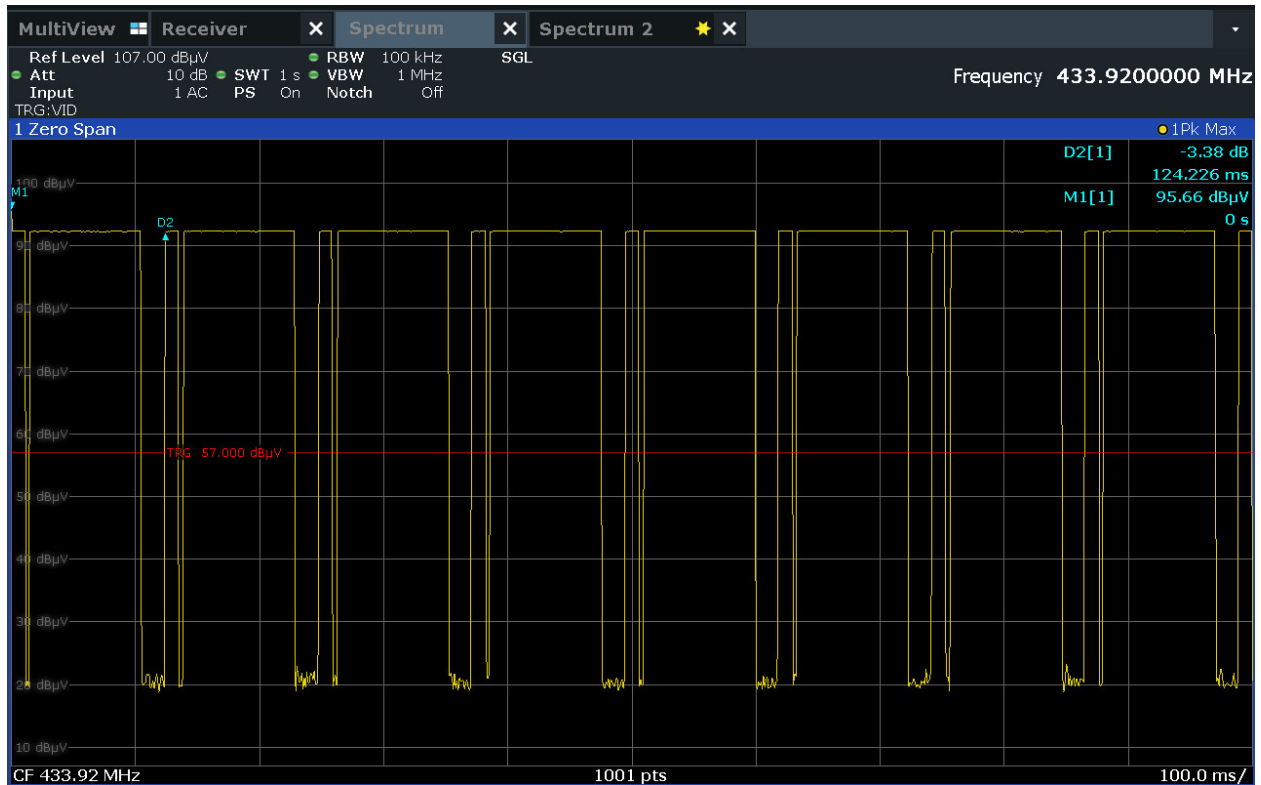
Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 412MHz
Parameters : Long Length
Date : 2/11/2026 2:28:03 PM
Notes : Genie 9 Switch / 3 Position Dip Switch, 1993-1995

TRACE1 : Function plot of Max Hold Peak

$$\text{Duty Cycle Factor(dB)} = 20 \times \log_{10} \frac{0.134\text{msec} + (4 \times 0.95\text{msec}) + (3 \times 1.85\text{msec}) + (3 \times 2.85\text{msec})}{76.1\text{msec}}$$

$$= -12.51\text{dB}$$

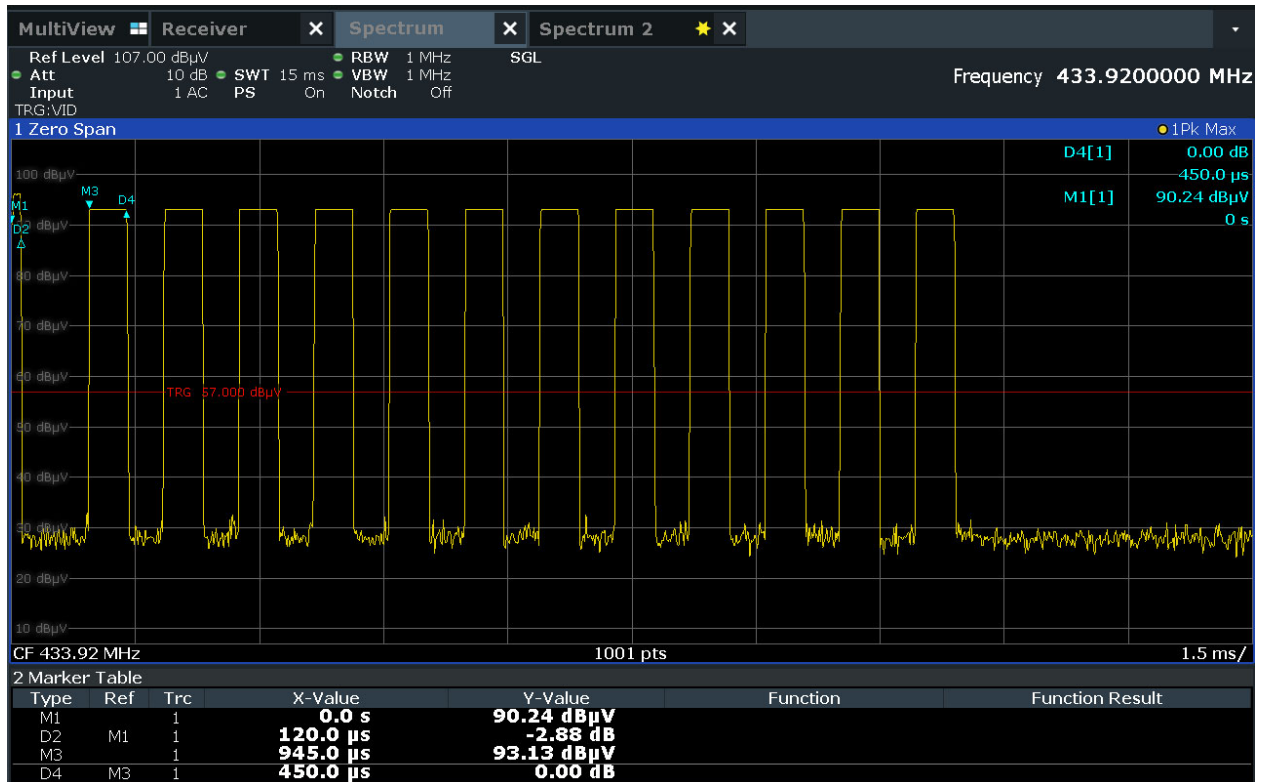
Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Antenna Port Conducted Sample
Mode	Tx
Frequency Tested	433.92MHz
Result	Duty Cycle Factor = -6.41dB
Notes	FAAC Rolling Code



Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 433.92MHz
 Parameters : Long Length
 Date : 2/11/2026 2:29:54 PM
 Notes : FAAC Rolling Code

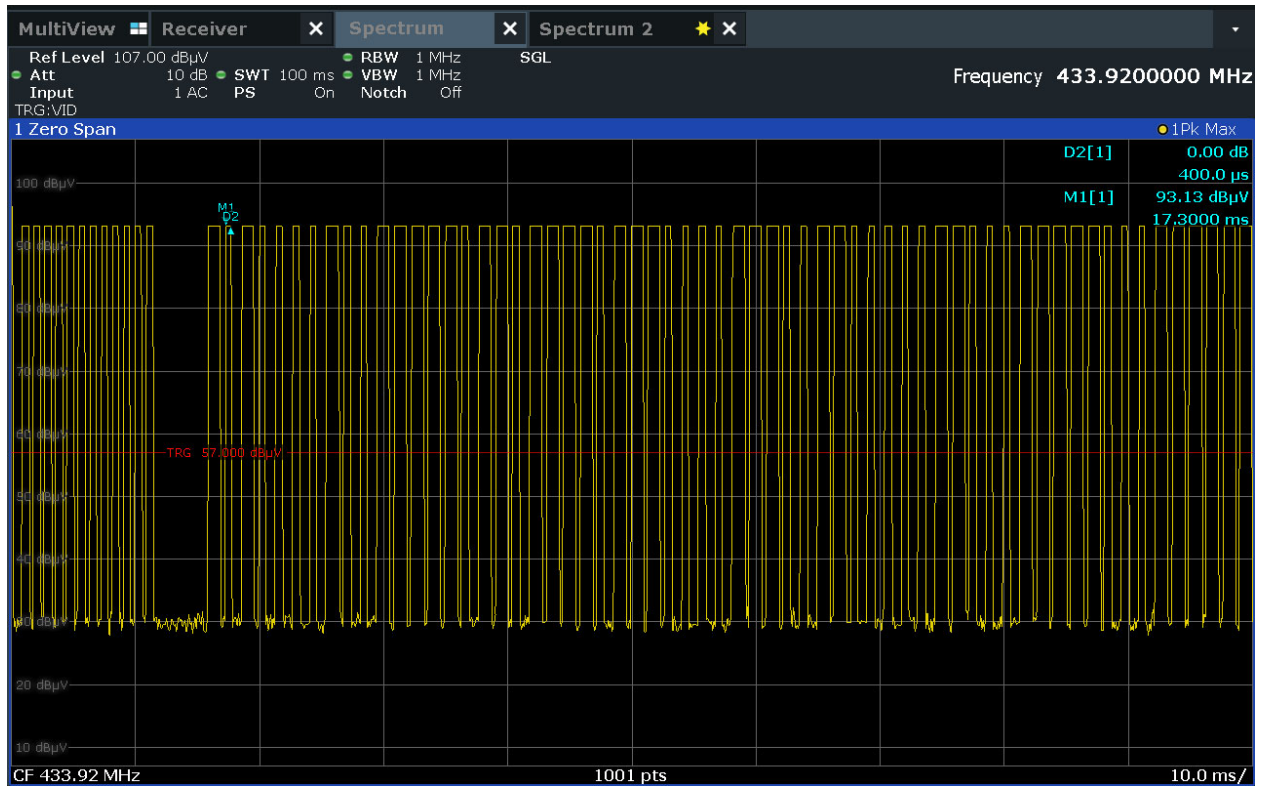
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
Model Number : EDCM87
Serial Number : Antenna Port Conducted Sample
Mode : Tx
Line Tested : Antenna Port - 433.92MHz
Parameters : Preamble Length
Date : 2/11/2026 2:37:47 PM
Notes : FAAC Rolling Code

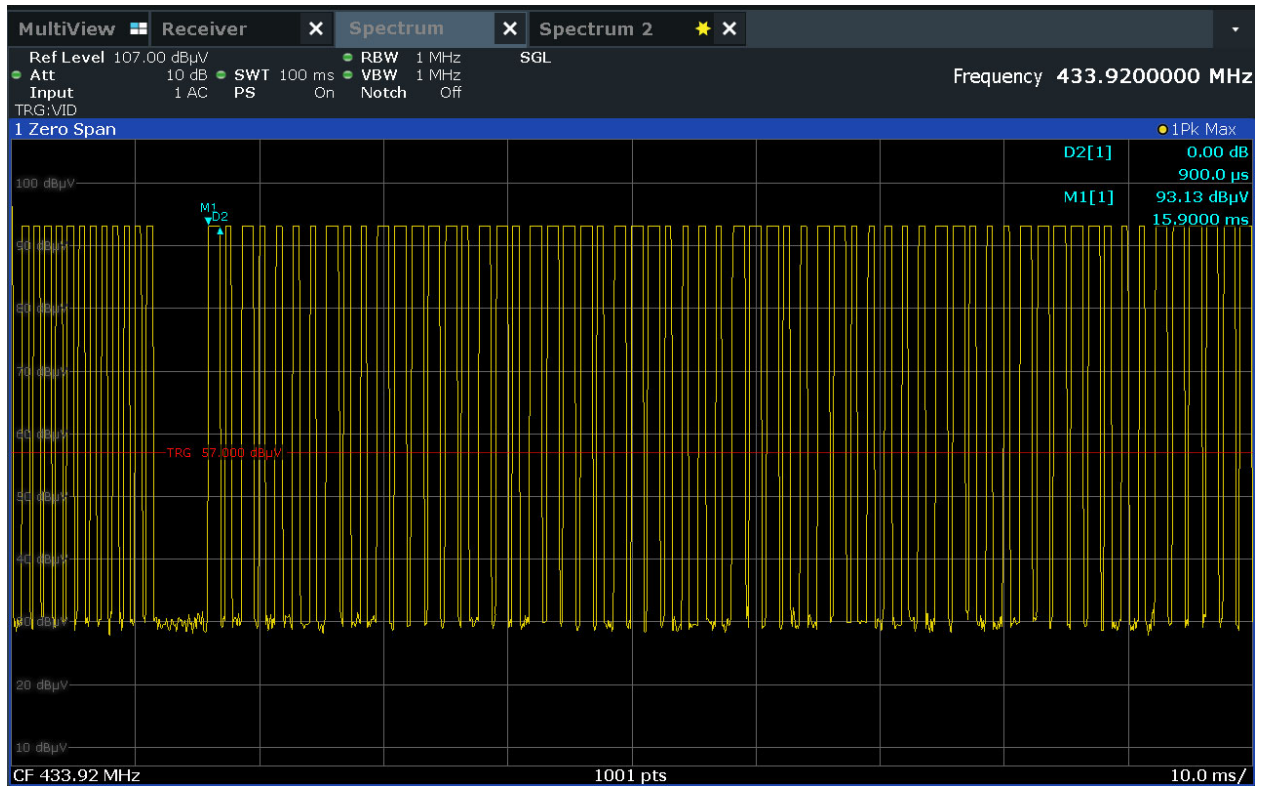
TRACE1 : Function plot of Max Hold Peak



Duty Cycle Factor Measurements

Manufacturer : Genie
 Model Number : EDCM87
 Serial Number : Antenna Port Conducted Sample
 Mode : Tx
 Line Tested : Antenna Port - 433.92MHz
 Parameters : Short Length
 Date : 2/11/2026 2:36:47 PM
 Notes : FAAC 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 - 433.92MHz
Parameters : Long Length
Date : 2/11/2026 2:36:11 PM
Notes : FAAC Rolling Code

TRACE1 : Function plot of Max Hold Peak

$$\text{Duty Cycle Factor(dB)} = 20 \times \log_{10} \frac{0.12\text{msec} + (12 \times 0.45\text{msec}) + (27 \times 0.4\text{msec}) + (35 \times 0.9\text{msec})}{100\text{msec}}$$

$$= -6.41\text{dB}$$

24. Transmitter Radiated Emissions

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

Test Setup Details	
Setup Format	Tabletop
Height of Support	NA
Measurement Method	Radiated
Type of Test Site	Semi-Anechoic Chamber
Test Site Used	R29F
Type of Antennas Used	Below 1GHz: Bilog (or equivalent) Above 1GHz: Double-ridged waveguide (or equivalent)
Notes	None

Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz)	4.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (1 GHz – 6 GHz)	3.1
Radiated disturbance (electric field strength on an open area test site or alternative test site) (6 GHz – 18 GHz)	3.2
Radiated disturbance (electric field strength on an open area test site or alternative test site) (18 GHz – 26.5 GHz)	3.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (26.5 GHz – 40 GHz)	3.4

Procedure

All tests were performed in a 32ft. x 20ft. x 18ft. hybrid ferrite-tile/anechoic absorber lined test chamber. The walls and ceiling of the shielded chamber are lined with ferrite tiles. Anechoic absorber material is installed over the ferrite tile. The floor of the chamber is used as the ground plane. The chamber complies with ANSI C63.4-2014 for site attenuation.

The shielded enclosure prevents emissions from other sources, such as radio and TV stations, from interfering with the measurements. All power lines and signal lines entering the enclosure pass through filters on the enclosure wall. The powerline filters prevent extraneous signals from entering the enclosure on these leads.

A preliminary radiated emissions test was performed to determine the emission characteristics of the EUT. For the preliminary test, a broadband measuring antenna was positioned at a 3 meter distance from the EUT. The entire frequency range from 30MHz to 4.5GHz was investigated using a peak detector function. The data was then processed by the computer to calculate equivalent field intensity.

The final emission tests were then manually performed over the frequency range of 30MHz to 4.5GHz. Between 30MHz and 1000MHz, a bilog antenna was used as the pick-up device. The EUT was placed on an 80cm high non-conductive stand. A peak detector with a resolution bandwidth of 100 kHz was used on the spectrum analyzer.

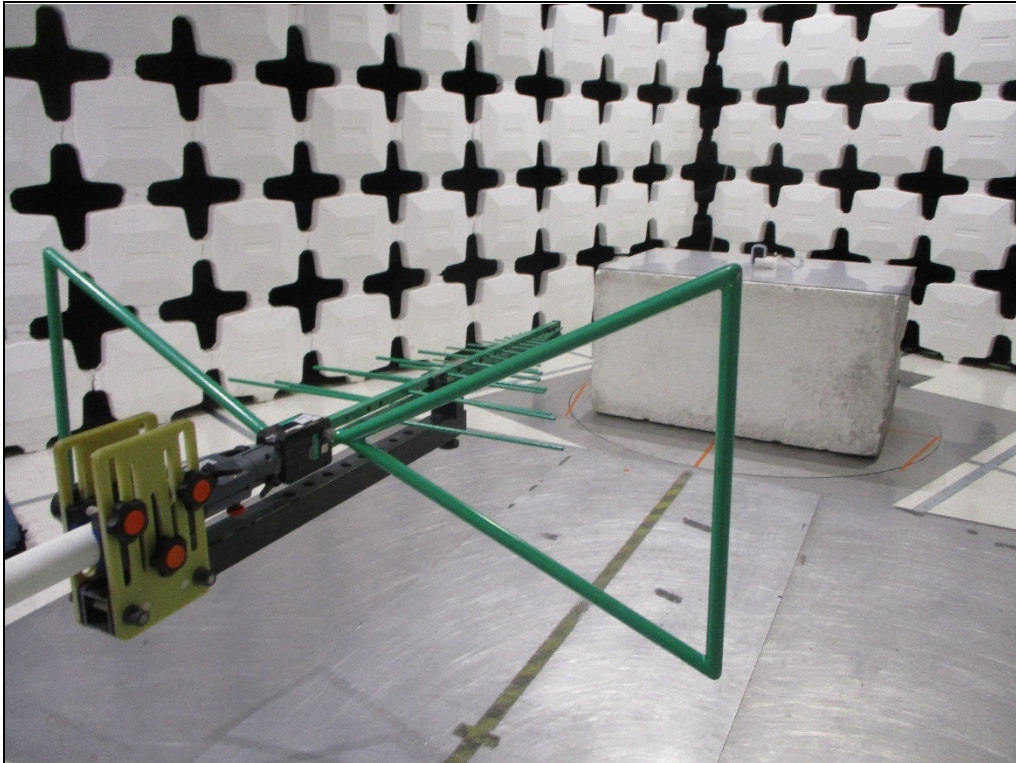
Above 1GHz, a broadband double ridged waveguide antenna was used as the pick-up device. The EUT was placed on an 150cm high non-conductive stand. A peak detector with a resolution bandwidth of 1 MHz was used on the spectrum analyzer.

The peak detected levels were converted to average levels using a duty cycle factor which was computed from the pulse train.

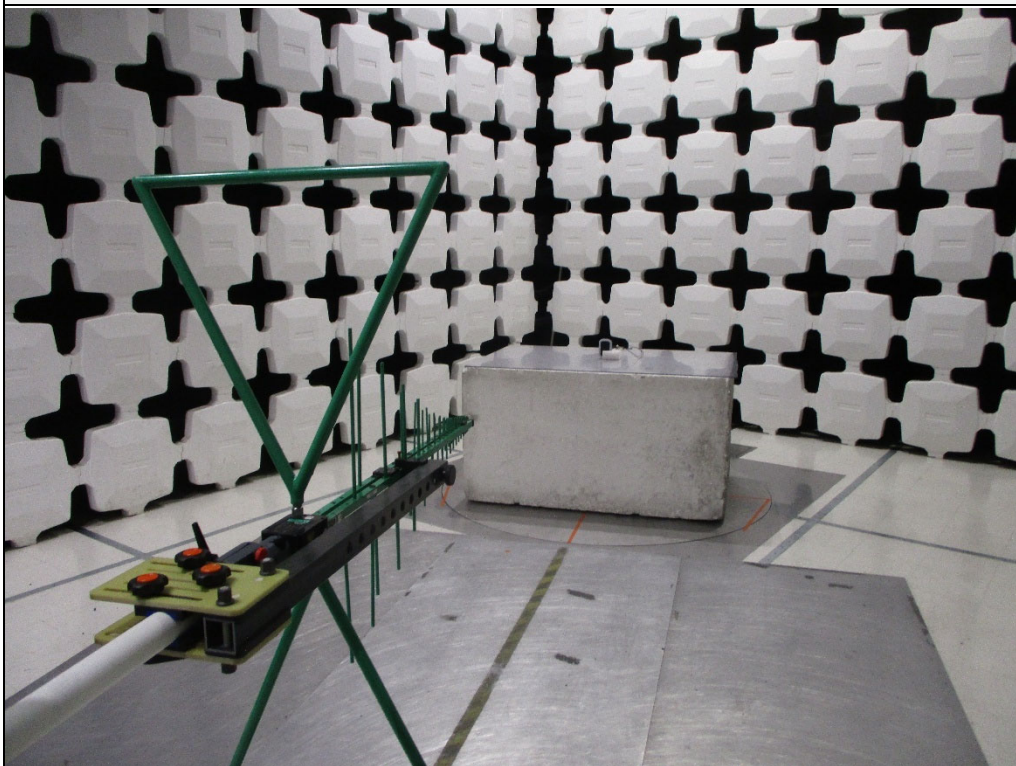
To ensure that maximum or worst case, emission levels were measured, the following steps were taken:

- 1) The EUT was rotated so that all of its sides were exposed to the receiving antenna.
- 2) Since the measuring antenna is linearly polarized, both horizontal and vertical field components were measured.
- 3) The measuring antenna was raised and lowered from 1 to 4 meters for each antenna polarization to maximize the readings.
- 4) For hand-held or body-worn devices, the EUT was rotated through three orthogonal axes to determine which orientation produces the highest emission relative to the limit.

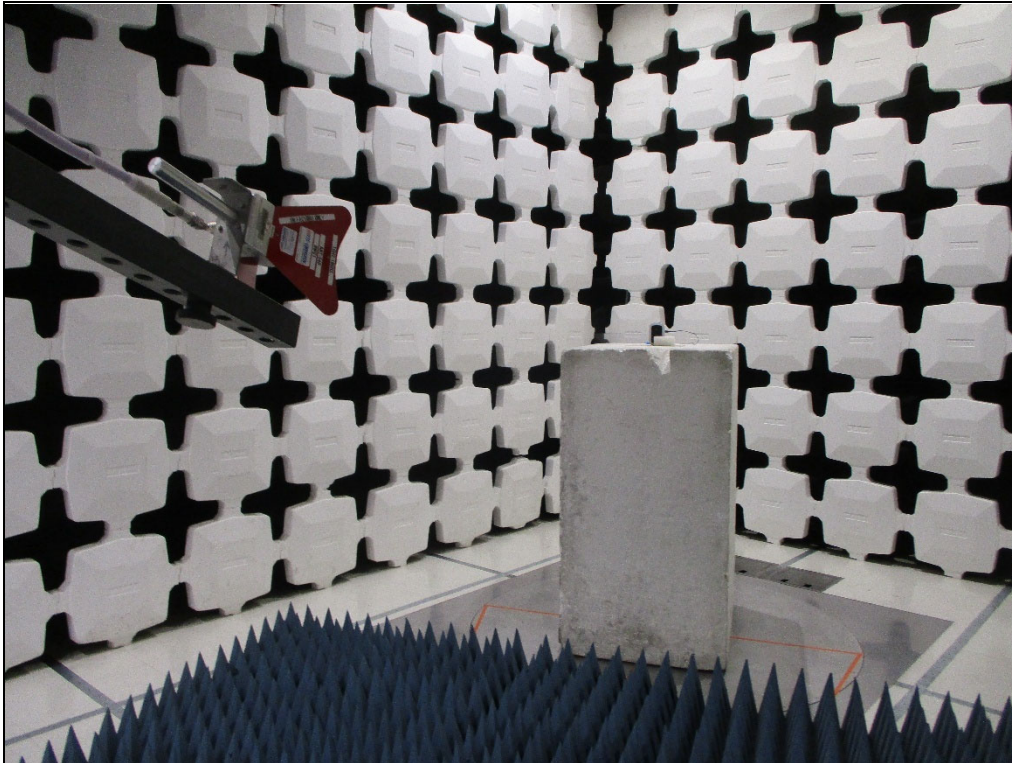
In instances where it was necessary to use a shortened cable between the measuring antenna and the spectrum analyzer and the antenna cannot be raised to 4 meters. The measuring antenna is raised or lowered as much as the cable will allow and the EUT is rotated through all axis to ensure the maximum readings are recorded.



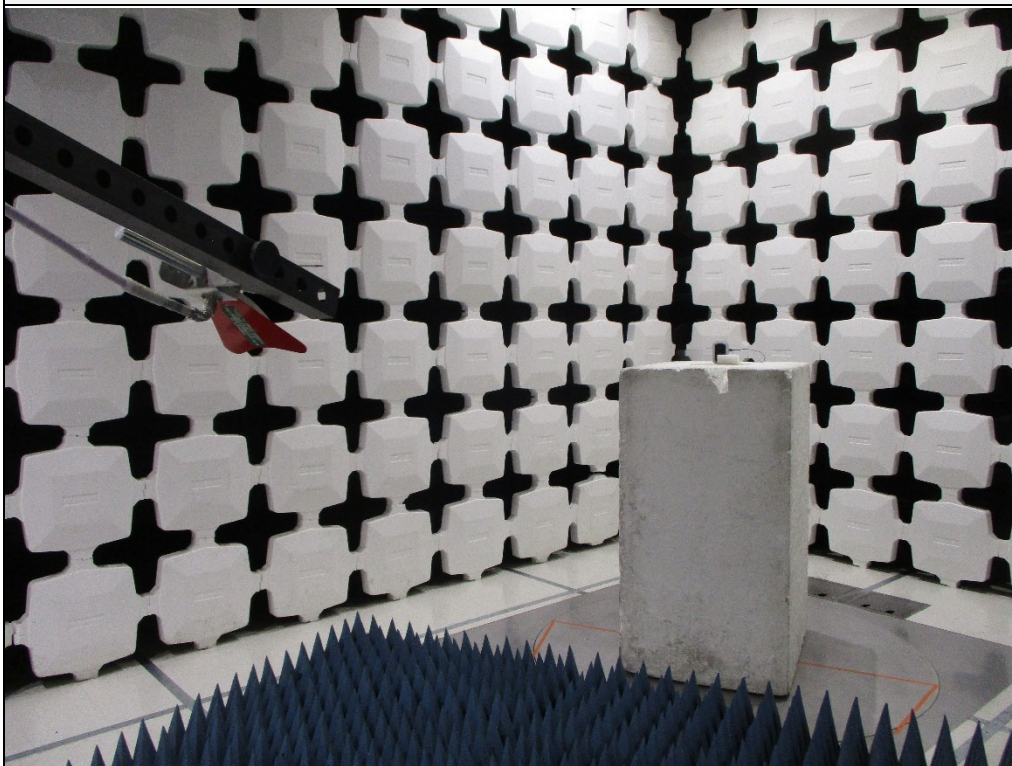
Test Setup for Radiated Spurious Emissions: 30MHz to 1GHz, Horizontal Polarization



Test Setup for Radiated Spurious Emissions: 30MHz to 1GHz, Vertical Polarization



Test Setup for Radiated Spurious Emissions: 1GHz to 4.5GHz, Horizontal Polarization



Test Setup for Radiated Spurious Emissions: 1GHz to 4.5GHz, Vertical Polarization

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	303MHz
Notes	Guardian Rolling Code

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
303.000	H	53.0		0.9	19.4	0.0	-9.8	63.5	1491.4	5541.7	-11.4
303.000	V	54.2		0.9	19.4	0.0	-9.8	64.6	1696.6	5541.7	-10.3
606.000	H	15.5		1.3	24.9	0.0	-9.8	31.8	39.1	554.2	-23.0
606.000	V	17.5		1.3	24.9	0.0	-9.8	33.9	49.5	554.2	-21.0
909.000	H	16.2		1.6	26.7	0.0	-9.8	34.6	54.0	554.2	-20.2
909.000	V	14.6		1.6	26.7	0.0	-9.8	33.0	44.8	554.2	-21.8
1212.000	H	23.7		1.8	29.6	0.0	-9.8	45.3	183.1	500.0	-8.7
1212.000	V	25.1		1.8	29.6	0.0	-9.8	46.7	215.6	500.0	-7.3
1515.000	H	23.4		2.0	28.1	0.0	-9.8	43.7	152.4	500.0	-10.3
1515.000	V	23.9		2.0	28.1	0.0	-9.8	44.1	161.1	500.0	-9.8
1818.000	H	23.5	*	2.2	29.4	0.0	-9.8	45.3	184.5	554.2	-9.6
1818.000	V	23.6	*	2.2	29.4	0.0	-9.8	45.5	187.5	554.2	-9.4
2121.000	H	55.1		2.4	31.1	-39.9	-9.8	38.9	88.6	554.2	-15.9
2121.000	V	52.1	*	2.4	31.1	-39.9	-9.8	35.9	62.2	554.2	-19.0
2424.000	H	51.1	*	2.6	32.7	-39.9	-9.8	36.7	68.3	554.2	-18.2
2424.000	V	51.3	*	2.6	32.7	-39.9	-9.8	36.9	69.7	554.2	-18.0
2727.000	H	51.2	*	2.8	33.0	-39.8	-9.8	37.5	74.7	500.0	-16.5
2727.000	V	52.1		2.8	33.0	-39.8	-9.8	38.3	82.5	500.0	-15.6
3030.000	H	51.9		3.0	32.9	-39.6	-9.8	38.4	82.8	554.2	-16.5
3030.000	V	51.5		3.0	32.9	-39.6	-9.8	37.9	78.8	554.2	-16.9

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	310MHz
Notes	Stanley 10 Switch / 2 Position Dip Switch

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
310.000	H	59.5		0.9	19.6	0.0	-12.2	67.8	2444.1	5833.3	-7.6
310.000	V	54.6		0.9	19.6	0.0	-12.2	62.9	1395.1	5833.3	-12.4
620.000	H	20.9		1.3	25.2	0.0	-12.2	35.2	57.5	583.3	-20.1
620.000	V	20.3		1.3	25.2	0.0	-12.2	34.6	53.7	583.3	-20.7
930.000	H	17.5		1.6	26.9	0.0	-12.2	33.8	48.7	583.3	-21.6
930.000	V	17.1		1.6	26.9	0.0	-12.2	33.3	46.4	583.3	-22.0
1240.000	H	24.4		1.8	29.6	0.0	-12.2	43.6	151.3	500.0	-10.4
1240.000	V	26.0		1.8	29.6	0.0	-12.2	45.2	183.0	500.0	-8.7
1550.000	H	24.5	*	2.1	28.0	0.0	-12.2	42.3	129.9	500.0	-11.7
1550.000	V	23.9	*	2.1	28.0	0.0	-12.2	41.7	121.1	500.0	-12.3
1860.000	H	23.5	*	2.3	29.8	0.0	-12.2	43.3	145.6	583.3	-12.1
1860.000	V	23.8	*	2.3	29.8	0.0	-12.2	43.5	150.4	583.3	-11.8
2170.000	H	55.3		2.5	31.3	-39.9	-12.2	37.0	70.4	583.3	-18.4
2170.000	V	53.4		2.5	31.3	-39.9	-12.2	35.0	56.5	583.3	-20.3
2480.000	H	46.8	*	2.7	32.9	-39.9	-12.2	30.3	32.8	583.3	-25.0
2480.000	V	48.1		2.7	32.9	-39.9	-12.2	31.6	38.1	583.3	-23.7
2790.000	H	51.3		2.8	32.9	-39.7	-12.2	35.1	56.6	500.0	-18.9
2790.000	V	49.5		2.8	32.9	-39.7	-12.2	33.3	46.0	500.0	-20.7
3100.000	H	50.9		3.0	33.0	-39.5	-12.2	35.2	57.4	583.3	-20.1
3100.000	V	51.7		3.0	33.0	-39.5	-12.2	35.9	62.6	583.3	-19.4

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	315MHz
Notes	Genie Intellicode® II, 2010

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
315.000	H	65.1		0.9	19.7	0.0	-13.2	72.6	4251.1	6041.7	-3.1
315.000	V	56.5		0.9	19.7	0.0	-13.2	63.9	1570.4	6041.7	-11.7
630.000	H	30.3		1.3	25.3	0.0	-13.2	43.7	153.8	604.2	-11.9
630.000	V	38.3		1.3	25.3	0.0	-13.2	51.7	386.7	604.2	-3.9
945.000	H	30.1		1.6	26.9	0.0	-13.2	45.4	186.3	604.2	-10.2
945.000	V	21.2		1.6	26.9	0.0	-13.2	36.5	66.8	604.2	-19.1
1260.000	H	32.1		1.9	29.7	0.0	-13.2	50.5	334.7	604.2	-5.1
1260.000	V	33.4		1.9	29.7	0.0	-13.2	51.7	385.6	604.2	-3.9
1575.000	H	24.2		2.1	27.9	0.0	-13.2	41.0	112.5	500.0	-13.0
1575.000	V	24.6		2.1	27.9	0.0	-13.2	41.4	117.8	500.0	-12.6
1890.000	H	24.2		2.3	30.0	0.0	-13.2	43.3	145.5	604.2	-12.4
1890.000	V	24.7		2.3	30.0	0.0	-13.2	43.8	154.4	604.2	-11.8
2205.000	H	52.2		2.5	31.4	-39.9	-13.2	33.1	45.0	500.0	-20.9
2205.000	V	51.1		2.5	31.4	-39.9	-13.2	31.9	39.5	500.0	-22.0
2520.000	H	49.9		2.7	33.1	-39.9	-13.2	32.6	42.7	604.2	-23.0
2520.000	V	49.7		2.7	33.1	-39.9	-13.2	32.4	41.6	604.2	-23.2
2835.000	H	53.8		2.9	32.8	-39.7	-13.2	36.6	67.7	500.0	-17.4
2835.000	V	51.8		2.9	32.8	-39.7	-13.2	34.7	54.0	500.0	-19.3
3150.000	H	56.4		3.0	33.0	-39.5	-13.2	39.8	97.9	604.2	-15.8
3150.000	V	57.1		3.0	33.0	-39.5	-13.2	40.5	105.8	604.2	-15.1

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	315MHz
Notes	Chamberlain Yellow Learn Button, Security +2.0@, 2011-current

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
315.000	H	61.1		0.9	19.7	0.0	-7.0	74.7	5420.0	6041.7	-0.9
315.000	V	53.7		0.9	19.7	0.0	-7.0	67.3	2325.4	6041.7	-8.3
630.000	H	15.4		1.3	25.3	0.0	-7.0	35.0	56.0	604.2	-20.7
630.000	V	23.4		1.3	25.3	0.0	-7.0	43.0	140.9	604.2	-12.6
945.000	H	20.7		1.6	26.9	0.0	-7.0	42.2	128.3	604.2	-13.5
945.000	V	15.0		1.6	26.9	0.0	-7.0	36.5	66.5	604.2	-19.2
1260.000	H	26.3		1.9	29.7	0.0	-7.0	50.9	350.1	604.2	-4.7
1260.000	V	27.6		1.9	29.7	0.0	-7.0	52.1	404.7	604.2	-3.5
1575.000	H	23.2	*	2.1	27.9	0.0	-7.0	46.2	204.9	500.0	-7.7
1575.000	V	23.5	*	2.1	27.9	0.0	-7.0	46.5	211.8	500.0	-7.5
1890.000	H	23.3	*	2.3	30.0	0.0	-7.0	48.6	267.7	604.2	-7.1
1890.000	V	22.5	*	2.3	30.0	0.0	-7.0	47.8	245.0	604.2	-7.8
2205.000	H	57.6		2.5	31.4	-39.9	-7.0	44.7	171.1	500.0	-9.3
2205.000	V	53.6		2.5	31.4	-39.9	-7.0	40.7	107.9	500.0	-13.3
2520.000	H	51.8		2.7	33.1	-39.9	-7.0	40.7	108.0	604.2	-15.0
2520.000	V	52.9		2.7	33.1	-39.9	-7.0	41.8	123.3	604.2	-13.8
2835.000	H	51.4		2.9	32.8	-39.7	-7.0	40.5	105.5	500.0	-13.5
2835.000	V	51.6	*	2.9	32.8	-39.7	-7.0	40.6	107.2	500.0	-13.4
3150.000	H	53.1		3.0	33.0	-39.5	-7.0	42.7	135.9	604.2	-13.0
3150.000	V	52.4		3.0	33.0	-39.5	-7.0	42.0	125.5	604.2	-13.7

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	318MHz
Notes	Linear Mega Code®

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
318.000	H	62.6		0.9	19.7	0.0	-15.0	68.2	2580.6	6166.7	-7.6
318.000	V	55.0		0.9	19.7	0.0	-15.0	60.7	1079.5	6166.7	-15.1
636.000	H	16.4		1.3	25.3	0.0	-15.0	28.0	25.2	616.7	-27.8
636.000	V	25.1		1.3	25.3	0.0	-15.0	36.7	68.4	616.7	-19.1
954.000	H	21.4		1.6	27.0	0.0	-15.0	35.0	56.1	616.7	-20.8
954.000	V	16.6		1.6	27.0	0.0	-15.0	30.1	32.1	616.7	-25.7
1272.000	H	25.1		1.9	29.7	0.0	-15.0	41.7	121.5	616.7	-14.1
1272.000	V	25.6		1.9	29.7	0.0	-15.0	42.1	128.0	616.7	-13.7
1590.000	H	23.3	*	2.1	27.9	0.0	-15.0	38.3	81.9	500.0	-15.7
1590.000	V	24.8	*	2.1	27.9	0.0	-15.0	39.8	97.5	500.0	-14.2
1908.000	H	23.5	*	2.3	30.1	0.0	-15.0	40.9	110.6	616.7	-14.9
1908.000	V	23.8	*	2.3	30.1	0.0	-15.0	41.2	115.0	616.7	-14.6
2226.000	H	54.3		2.5	31.6	-39.9	-15.0	33.5	47.4	500.0	-20.5
2226.000	V	55.6		2.5	31.6	-39.9	-15.0	34.8	54.8	500.0	-19.2
2544.000	H	51.3	*	2.7	33.1	-39.9	-15.0	32.2	40.9	616.7	-23.6
2544.000	V	51.3	*	2.7	33.1	-39.9	-15.0	32.3	41.1	616.7	-23.5
2862.000	H	50.8		2.9	32.8	-39.7	-15.0	31.9	39.2	500.0	-22.1
2862.000	V	50.7		2.9	32.8	-39.7	-15.0	31.7	38.5	500.0	-22.3
3180.000	H	52.5		3.0	33.1	-39.5	-15.0	34.1	50.9	616.7	-21.7
3180.000	V	52.5		3.0	33.1	-39.5	-15.0	34.1	50.8	616.7	-21.7

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	
Notes	Genie 9 Switch / 3 Position Dip Switch, 1993-1995

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
360.000	H	67.7		1.0	20.7	0.0	-12.3	77.1	7147.8	7916.7	-0.9
360.000	V	59.9		1.0	20.7	0.0	-12.3	69.2	2895.2	7916.7	-8.7
720.000	H	24.4		1.4	25.4	0.0	-12.3	38.8	87.6	791.7	-19.1
720.000	V	26.3		1.4	25.4	0.0	-12.3	40.8	109.6	791.7	-17.2
1080.000	H	25.6		1.7	28.3	0.0	-12.3	43.2	145.1	500.0	-10.7
1080.000	V	25.9		1.7	28.3	0.0	-12.3	43.6	151.2	500.0	-10.4
1440.000	H	23.7	*	2.0	28.7	0.0	-12.3	42.1	127.7	500.0	-11.9
1440.000	V	24.4	*	2.0	28.7	0.0	-12.3	42.8	138.1	500.0	-11.2
1800.000	H	23.4	*	2.2	29.3	0.0	-12.3	42.6	134.8	791.7	-15.4
1800.000	V	23.5	*	2.2	29.3	0.0	-12.3	42.7	136.7	791.7	-15.3
2160.000	H	56.0		2.4	31.2	-39.9	-12.3	37.5	75.0	791.7	-20.5
2160.000	V	55.3		2.4	31.2	-39.9	-12.3	36.8	69.0	791.7	-21.2
2520.000	H	54.8		2.7	33.1	-39.9	-12.3	38.3	82.6	791.7	-19.6
2520.000	V	56.1		2.7	33.1	-39.9	-12.3	39.6	95.9	791.7	-18.3
2880.000	H	54.3		2.9	32.8	-39.7	-12.3	38.0	79.2	500.0	-16.0
2880.000	V	57.8		2.9	32.8	-39.7	-12.3	41.5	119.4	500.0	-12.4
3240.000	H	52.5		3.1	33.1	-39.4	-12.3	36.9	70.3	791.7	-21.0
3240.000	V	50.7		3.1	33.1	-39.4	-12.3	35.1	56.7	791.7	-22.9
3600.000	H	53.0		3.2	33.2	-39.2	-12.3	37.9	78.5	500.0	-16.1
3600.000	V	54.7		3.2	33.2	-39.2	-12.3	39.6	95.3	500.0	-14.4

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	372.5MHz
Notes	Wayne Dalton Rolling Code

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
372.500	H	67.6		1.0	21.0	0.0	-12.4	77.1	7144.9	8437.5	-1.4
372.500	V	61.1		1.0	21.0	0.0	-12.4	70.6	3372.8	8437.5	-8.0
745.000	H	22.7		1.4	25.8	0.0	-12.4	37.5	74.8	843.7	-21.0
745.000	V	23.2		1.4	25.8	0.0	-12.4	37.9	78.7	843.7	-20.6
1117.500	H	25.0		1.7	28.6	0.0	-12.4	42.9	140.4	500.0	-11.0
1117.500	V	25.1		1.7	28.6	0.0	-12.4	43.0	141.2	500.0	-11.0
1490.000	H	23.5		2.0	28.2	0.0	-12.4	41.3	115.7	500.0	-12.7
1490.000	V	23.3		2.0	28.2	0.0	-12.4	41.1	113.0	500.0	-12.9
1862.500	H	24.2		2.3	29.8	0.0	-12.4	43.8	155.2	843.7	-14.7
1862.500	V	22.9		2.3	29.8	0.0	-12.4	42.5	133.6	843.7	-16.0
2235.000	H	51.6		2.5	31.6	-39.9	-12.4	33.4	46.8	500.0	-20.6
2235.000	V	53.8		2.5	31.6	-39.9	-12.4	35.6	60.4	500.0	-18.4
2607.500	H	54.7		2.7	33.2	-39.8	-12.4	38.3	82.5	843.7	-20.2
2607.500	V	51.2		2.7	33.2	-39.8	-12.4	34.9	55.6	843.7	-23.6
2980.000	H	53.4		2.9	32.8	-39.6	-12.4	37.1	71.6	843.7	-21.4
2980.000	V	54.8		2.9	32.8	-39.6	-12.4	38.5	84.6	843.7	-20.0
3352.500	H	51.7		3.1	33.1	-39.3	-12.4	36.1	64.1	500.0	-17.8
3352.500	V	51.2		3.1	33.1	-39.3	-12.4	35.6	60.4	500.0	-18.4
3725.000	H	52.9		3.3	33.3	-39.2	-12.4	37.8	77.9	500.0	-16.2
3725.000	V	52.7		3.3	33.3	-39.2	-12.4	37.6	76.1	500.0	-16.4

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	380MHz
Notes	Genie 9 Switch / 3 Position Dip Switch, 1993-1995

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
380.000	H	67.1		1.0	21.1	0.0	-12.5	76.6	6783.6	8750.0	-2.2
380.000	V	58.6		1.0	21.1	0.0	-12.5	68.2	2570.2	8750.0	-10.6
760.000	H	24.3		1.4	25.9	0.0	-12.5	39.0	89.6	875.0	-19.8
760.000	V	24.4		1.4	25.9	0.0	-12.5	39.2	90.8	875.0	-19.7
1140.000	H	23.9		1.8	28.9	0.0	-12.5	42.0	125.5	500.0	-12.0
1140.000	V	24.9		1.8	28.9	0.0	-12.5	43.0	142.0	500.0	-10.9
1520.000	H	23.7		2.1	28.0	0.0	-12.5	41.3	115.8	500.0	-12.7
1520.000	V	23.3		2.1	28.0	0.0	-12.5	40.9	110.8	500.0	-13.1
1900.000	H	23.7		2.3	30.1	0.0	-12.5	43.6	150.6	875.0	-15.3
1900.000	V	22.8		2.3	30.1	0.0	-12.5	42.7	135.8	875.0	-16.2
2280.000	H	52.2		2.5	31.9	-39.9	-12.5	34.2	51.1	500.0	-19.8
2280.000	V	52.9		2.5	31.9	-39.9	-12.5	34.8	55.1	500.0	-19.1
2660.000	H	53.2		2.8	33.1	-39.8	-12.5	36.8	68.8	875.0	-22.1
2660.000	V	52.1		2.8	33.1	-39.8	-12.5	35.7	60.8	875.0	-23.2
3040.000	H	52.9		3.0	32.9	-39.6	-12.5	36.7	68.2	875.0	-22.2
3040.000	V	52.8		3.0	32.9	-39.6	-12.5	36.6	67.8	875.0	-22.2
3420.000	H	51.1		3.2	33.1	-39.3	-12.5	35.6	59.9	875.0	-23.3
3420.000	V	50.9		3.2	33.1	-39.3	-12.5	35.4	58.6	875.0	-23.5
3800.000	H	52.7		3.3	33.3	-39.2	-12.5	37.5	75.3	500.0	-16.4
3800.000	V	53.7		3.3	33.3	-39.2	-12.5	38.6	85.2	500.0	-15.4

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	390MHz
Notes	Genie 9 Switch / 2 Position Dip Switch, 1993-1995

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
390.000	H	61.5		1.0	21.4	0.0	-6.3	77.7	7657.3	9166.7	-1.6
390.000	V	56.0		1.0	21.4	0.0	-6.3	72.1	4032.5	9166.7	-7.1
780.000	H	19.2		1.4	25.9	0.0	-6.3	40.2	102.4	916.7	-19.0
780.000	V	18.5		1.4	25.9	0.0	-6.3	39.5	94.5	916.7	-19.7
1170.000	H	24.8		1.8	29.2	0.0	-6.3	49.5	298.0	500.0	-4.5
1170.000	V	25.4		1.8	29.2	0.0	-6.3	50.1	321.5	500.0	-3.8
1560.000	H	23.3		2.1	27.9	0.0	-6.3	47.1	225.4	500.0	-6.9
1560.000	V	23.9		2.1	27.9	0.0	-6.3	47.7	241.6	500.0	-6.3
1950.000	H	24.5		2.3	30.3	0.0	-6.3	50.9	349.2	916.7	-8.4
1950.000	V	23.9		2.3	30.3	0.0	-6.3	50.3	326.6	916.7	-9.0
2340.000	H	51.3		2.6	32.2	-39.9	-6.3	39.9	98.7	500.0	-14.1
2340.000	V	53.8		2.6	32.2	-39.9	-6.3	42.4	131.3	500.0	-11.6
2730.000	H	53.4		2.8	33.0	-39.8	-6.3	43.2	145.3	500.0	-10.7
2730.000	V	51.6		2.8	33.0	-39.8	-6.3	41.4	117.1	500.0	-12.6
3120.000	H	53.0		3.0	33.0	-39.5	-6.3	43.2	145.2	916.7	-16.0
3120.000	V	53.8		3.0	33.0	-39.5	-6.3	44.1	160.3	916.7	-15.1
3510.000	H	51.3		3.2	33.2	-39.2	-6.3	42.2	128.3	916.7	-17.1
3510.000	V	51.1		3.2	33.2	-39.2	-6.3	42.0	126.1	916.7	-17.2
3900.000	H	53.4		3.4	33.5	-39.2	-6.3	44.7	172.6	500.0	-9.2
3900.000	V	54.2		3.4	33.5	-39.2	-6.3	45.5	189.1	500.0	-8.4

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	390MHz
Notes	OHD 9 Switch / 3 Position Dip Switch, 1993-1995

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
390.000	H	68.1		1.0	21.4	0.0	-12.5	78.0	7917.3	9166.7	-1.3
390.000	V	58.0		1.0	21.4	0.0	-12.5	67.9	2472.2	9166.7	-11.4
780.000	H	30.3		1.4	25.9	0.0	-12.5	45.2	181.3	916.7	-14.1
780.000	V	29.7		1.4	25.9	0.0	-12.5	44.6	169.2	916.7	-14.7
1170.000	H	25.9		1.8	29.2	0.0	-12.5	44.4	165.5	500.0	-9.6
1170.000	V	28.6		1.8	29.2	0.0	-12.5	47.0	225.0	500.0	-6.9
1560.000	H	24.0		2.1	27.9	0.0	-12.5	41.5	118.3	500.0	-12.5
1560.000	V	25.0		2.1	27.9	0.0	-12.5	42.5	133.1	500.0	-11.5
1950.000	H	23.2		2.3	30.3	0.0	-12.5	43.4	147.2	916.7	-15.9
1950.000	V	23.8		2.3	30.3	0.0	-12.5	44.0	157.8	916.7	-15.3
2340.000	H	60.1		2.6	32.2	-39.9	-12.5	42.5	132.7	500.0	-11.5
2340.000	V	56.5		2.6	32.2	-39.9	-12.5	38.9	88.2	500.0	-15.1
2730.000	H	55.5		2.8	33.0	-39.8	-12.5	39.0	89.5	500.0	-14.9
2730.000	V	53.2		2.8	33.0	-39.8	-12.5	36.8	69.0	500.0	-17.2
3120.000	H	56.4		3.0	33.0	-39.5	-12.5	40.4	104.4	916.7	-18.9
3120.000	V	57.9		3.0	33.0	-39.5	-12.5	41.9	124.1	916.7	-17.4
3510.000	H	50.7		3.2	33.2	-39.2	-12.5	35.4	58.6	916.7	-23.9
3510.000	V	51.4		3.2	33.2	-39.2	-12.5	36.0	63.4	916.7	-23.2
3900.000	H	52.6		3.4	33.5	-39.2	-12.5	37.7	76.6	500.0	-16.3
3900.000	V	54.0		3.4	33.5	-39.2	-12.5	39.1	90.3	500.0	-14.9

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	412MHz
Notes	Genie 9 Switch / 3 Position Dip Switch, 1993-1995

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
412.000	H	60.8		1.1	22.5	0.0	-12.3	71.9	3954.0	10083.3	-8.1
412.000	V	53.4		1.1	22.5	0.0	-12.3	64.6	1688.6	10083.3	-15.5
824.000	H	32.5		1.5	26.1	0.0	-12.3	47.7	242.9	1008.3	-12.4
824.000	V	29.8		1.5	26.1	0.0	-12.3	45.1	179.4	1008.3	-15.0
1236.000	H	24.1		1.8	29.6	0.0	-12.3	43.2	144.6	500.0	-10.8
1236.000	V	25.2		1.8	29.6	0.0	-12.3	44.3	163.6	500.0	-9.7
1648.000	H	23.9		2.1	28.1	0.0	-12.3	41.8	122.6	1008.3	-18.3
1648.000	V	24.0		2.1	28.1	0.0	-12.3	41.9	124.3	1008.3	-18.2
2060.000	H	56.1		2.4	30.8	-39.9	-12.3	37.1	71.2	1008.3	-23.0
2060.000	V	56.2		2.4	30.8	-39.9	-12.3	37.2	72.1	1008.3	-22.9
2472.000	H	53.2		2.7	32.9	-39.9	-12.3	36.5	67.1	1008.3	-23.5
2472.000	V	50.3		2.7	32.9	-39.9	-12.3	33.7	48.2	1008.3	-26.4
2884.000	H	50.7		2.9	32.8	-39.7	-12.3	34.3	52.0	500.0	-19.7
2884.000	V	50.1		2.9	32.8	-39.7	-12.3	33.7	48.6	500.0	-20.3
3296.000	H	53.5		3.1	33.1	-39.4	-12.3	37.9	78.9	1008.3	-22.1
3296.000	V	53.9		3.1	33.1	-39.4	-12.3	38.3	82.4	1008.3	-21.7
3708.000	H	50.7		3.3	33.3	-39.2	-12.3	35.7	60.9	500.0	-18.3
3708.000	V	49.7		3.3	33.3	-39.2	-12.3	34.7	54.3	500.0	-19.3
4120.000	H	49.6		3.4	33.6	-39.2	-12.3	35.1	56.8	500.0	-18.9
4120.000	V	50.3		3.4	33.6	-39.2	-12.3	35.8	61.5	500.0	-18.2

Test Details	
Manufacturer	Genie
Equipment Under Test	Door Controller Module
Model No.	ALDCM2
Part No.	42745A
Serial No.	Radiated Sample
Mode	Tx
Frequency Tested	433.92MHz
Notes	FAAC Rolling Code

Freq. (MHz)	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
433.920	H	58.1		1.1	22.8	0.0	-6.4	75.5	5983.2	10996.7	-5.3
433.920	V	55.3		1.1	22.8	0.0	-6.4	72.7	4334.4	10996.7	-8.1
867.840	H	35.8		1.5	26.5	0.0	-6.4	57.4	742.9	1099.7	-3.4
867.840	V	32.7		1.5	26.5	0.0	-6.4	54.3	519.3	1099.7	-6.5
1301.760	H	25.3		1.9	29.8	0.0	-6.4	50.5	336.5	500.0	-3.4
1301.760	V	27.3		1.9	29.8	0.0	-6.4	52.5	423.6	500.0	-1.4
1735.680	H	25.1		2.2	28.7	0.0	-6.4	49.6	302.6	1099.7	-11.2
1735.680	V	25.1		2.2	28.7	0.0	-6.4	49.6	300.5	1099.7	-11.3
2169.600	H	64.0		2.5	31.3	-39.9	-6.4	51.4	373.6	1099.7	-9.4
2169.600	V	58.0		2.5	31.3	-39.9	-6.4	45.4	187.0	1099.7	-15.4
2603.520	H	56.4		2.7	33.2	-39.8	-6.4	46.1	200.8	1099.7	-14.8
2603.520	V	61.5		2.7	33.2	-39.8	-6.4	51.2	362.9	1099.7	-9.6
3037.440	H	50.2		3.0	32.9	-39.6	-6.4	40.1	101.5	1099.7	-20.7
3037.440	V	49.3		3.0	32.9	-39.6	-6.4	39.2	91.1	1099.7	-21.6
3471.360	H	52.4		3.2	33.1	-39.2	-6.4	43.1	142.7	1099.7	-17.7
3471.360	V	51.4		3.2	33.1	-39.2	-6.4	42.1	127.3	1099.7	-18.7
3905.280	H	53.6		3.4	33.5	-39.2	-6.4	44.7	172.6	500.0	-9.2
3905.280	V	52.1		3.4	33.5	-39.2	-6.4	43.2	145.2	500.0	-10.7
4339.200	H	51.0		3.5	33.8	-39.2	-6.4	42.6	135.3	500.0	-11.4
4339.200	V	51.8		3.5	33.8	-39.2	-6.4	43.5	149.0	500.0	-10.5

25. Scope of Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELITE ELECTRONIC ENGINEERING, INC.
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ELECTRICAL

Valid To: June 30, 2027

Certificate Number: 1786.01

In recognition of the successful completion of the A2LA Accreditation Program evaluation process, accreditation is granted to this laboratory at the location listed above, as well as the satellite location listed below, to perform the following automotive electromagnetic compatibility and other electrical tests:

Test Technology:**Test Method(s)¹:**

Transient Immunity
(Max Voltage 1500 V/Max current 1000 A)

ISO 7637-2 (including emissions); ISO 7637-3; ISO 7637-4;
ISO 16750-2, Sections 4.6.3 and 4.6.4;
ISO 21498-1; ISO 21498-2;
CS.00054, Section 5.9; CS.00244 Section 5.2.15 through 5.2.21; CS.00245; CS.00246 Section 5.2.4;
EMC-CS-2009.1 (CI220); FMC1278 (CI220, CI221, CI222);
GMW 3097, Section 3.5; SAE J1113-11; SAE J1113-12;
ECE Regulation 10.06 Annex 10

Electrostatic Discharge (ESD)
(Up to +/-25 kV)

ISO 10605 (2001, 2008); ISO 10605;
CS.00054, Section 5.10; CS.00244 Section 5.5;
EMC-CS-2009.1 (CI 280); FMC1278 (CI280); SAE J1113-13;
GMW 3097 Section 3.6

Conducted Emissions

CISPR 25 (2002, 2008), Sections 6.2 and 6.3;
CISPR 25 (2016), Sections 6.3 and 6.4; CISPR 25;
CS.00054, Sections 5.6.1 and 5.6.2;
CS.00244 Sections 5.4.2 and 5.4.3; GMW 3097, Section 3.3.2;
EMC-CS-2009.1 (CE 420); FMC1278 (CE420, CE421, CE 430, CE440)

(A2LA Cert. No. 1786.01) 08/14/2025



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5202 Presidents Court, Suite 220 | Frederick, MD 21703-8398 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Test Technology:
Test Method(s)¹:

Radiated Emissions Anechoic
(Up to 6 GHz)

CISPR 25 (2002, 2008), Section 6.4;
CISPR 25 (2016), Section 6.5; CISPR 25;
CS.00054, Section 5.6.3; CS.00244 Section 5.4.4;
GMW 3097, Section 3.3.1;
EMC-CS-2009.1 (RE 310); FMC1278 (RE310, RE320)

Vehicle Radiated Emissions

CISPR 12; CISPR 36; ICES-002;
ECE Regulation 10.06 Annex 4;
ECE Regulation 10.06 Annex 5

Bulk Current Injection (BCI)
(1 to 400MHz 500mA)

ISO 11452-4; CS.00054, Section 5.8.1;
CS.00244 Section 5.3.2;
GMW 3097, Section 3.4.1; SAE J1113-4;
EMC-CS-2009.1 (RI112); FMC1278 (RI112);
ECE Regulation 10.06 Annex 9

Radiated Immunity Anechoic
(Up to 6GHz and 200V/m)
(Including Radar Pulse 600V/m)

ISO 11452-2;
CS.00054, Section 5.8.2; CS.00244 Section 5.3.3;
GMW 3097, Section 3.4.2;
EMC-CS-2009.1 (RI114); FMC1278 (RI114); SAE J1113-21;
ECE Regulation 10.06 Annex 9

Radiated Immunity Magnetic Field

ISO 11452-8; FMC 1278 (RI140); CS.00244 Section 5.3.4

Radiated Immunity Reverb
(360MHz to 6GHz and 100V/m)

ISO/IEC 61000-4-21; GMW 3097, Section 3.4.3;
EMC-CS-2009.1 (RI114); FMC1278 (RI114);
ISO 11452-11

Radiated Immunity
(Portable Transmitters)
(Up to 6GHz and 20W)

ISO 11452-9;
CS.00244 Section 5.3.5;
EMC-CS-2009.1 (RI115); FMC1278 (RI115);
GMW 3097, Sec 3.4.4

Vehicle Radiated Immunity (ALSE)

ISO 11451-2; ECE Regulation 10.06 Annex 6

Vehicle Product Specific EMC Standards

EN 14982; EN ISO 13309; ISO 13766; EN 50498;
EC Regulation No. 2015/208; EN 55012

Electrical Loads

ISO 16750-2

Stripline

ISO 11452-5

Emissions

Radiated and Conducted
(3m Semi-anechoic chamber,
up to 40 GHz)

47 CFR, FCC Part 15 B (using ANSI C63.4:2014);
47 CFR, FCC Part 18 (using FCC MP-5:1986);
ICES-001; ICES-003; ICES-005;
IEC/CISPR 11, Ed. 4.1 (2004-06); AS/NZS CISPR 11 (2004);
IEC/CISPR 11 Ed 5 (2009-05) + A1 (2010);
KN 11 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008);
CISPR 11; EN 55011; KS C 9811; CNS 13803 (1997, 2003);
CISPR 14-1; EN 55014-1; AS/NZS CISPR 14.1;

Test Technology:

Radiated and Conducted (cont'd)
(3m Semi-anechoic chamber,
up to 40 GHz)

Test Method(s)¹:

CISPR 16-2-1 (2008); CISPR 16-2-1; KS C 9814-1; KN 14-1;
IEC/CISPR 22 (1997);
EN 55022 (1998) + A1(2000);
EN 55022 (1998) + A1(2000) + A2(2003); EN 55022 (2006);
IEC/CISPR 22 (2008-09); AS/NZS CISPR 22 (2004);
AS/NZS CISPR 22, 3rd Edition (2006); KN 22 (up to 6 GHz);
CNS 13438 (up to 6 GHz); VCCI V-3 (up to 6 GHz);
CISPR 32; EN 55032; KS C 9832; KN 32;
ECE Regulation 10.06 Annex 7 (Broadband);
ECE Regulation 10.06 Annex 8 (Narrowband);
ECE Regulation 10.06 Annex 13 (Conducted);
ECE Regulation 10.06 Annex 14 (Conducted)

Cellular Radiated Spurious Emissions

ETSI TS 151 010-1 GSM; 3GPP TS 51.010-1, Sec 12;
ETSI TS 134 124 UMTS; 3GPP TS 34.124;
ETSI TS 136 124 LTE; E-UTRA; 3GPP TS 36.124

Current Harmonics

IEC 61000-3-2; IEC 61000-3-12;
EN 61000-3-2; KN 61000-3-2;
KS C 9610-3-2; ECE Regulation 10.06 Annex 11

Flicker and Fluctuations

IEC 61000-3-3; IEC 61000-3-11;
EN 61000-3-3; KN 61000-3-3;
KS C 9610-3-3; ECE Regulation 10.06 Annex 12

Immunity

Electrostatic Discharge

IEC 61000-4-2, Ed. 1.2 (2001);
IEC 61000-4-2 (1995) + A1(1998) + A2(2000);
EN 61000-4-2 (1995); EN 61000-4-2 (2009-05);
KN 61000-4-2 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-2; EN 61000-4-2; KN 61000-4-2;
KS C 9610-4-2; IEEE C37.90.3 2001

Radiated Immunity

IEC 61000-4-3 (1995) + A1(1998) + A2(2000);
IEC 61000-4-3, Ed. 3.0 (2006-02);
IEC 61000-4-3, Ed. 3.2 (2010);
KN 61000-4-3 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-3; EN 61000-4-3; KN 61000-4-3;
KS C 9610-4-3; IEEE C37.90.2 2004

Electrical Fast Transient/Burst

IEC 61000-4-4, Ed. 2.0 (2004-07);
IEC 61000-4-4, Ed. 2.1 (2011);
IEC 61000-4-4 (1995) + A1(2000) + A2(2001);
KN 61000-4-4 (2008-5);
RRL Notice No. 2008-5 (May 20, 2008);
IEC 61000-4-4; EN 61000-4-4; KN 61000-4-4;
KS C 9610-4-4; ECE Regulation 10.06 Annex 15

Test Technology:**Test Method(s)¹:**

Surge

IEC 61000-4-5 (1995) + A1(2000);
IEC 61000-4-5, Ed 1.1 (2005-11);
EN 61000-4-5 (1995) + A1(2001);
KN 61000-4-5 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-5; EN 61000-4-5; KN 61000-4-5;
KS C 9610-4-5;
IEEE C37.90.1 2012; IEEE STD C62.41.2 2002;
ECE Regulation 10.06 Annex 16

Conducted Immunity

IEC 61000-4-6 (1996) + A1(2000);
IEC 61000-4-6, Ed 2.0 (2006-05);
IEC 61000-4-6 Ed. 3.0 (2008);
KN 61000-4-6 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
EN 61000-4-6 (1996) + A1(2001); IEC 61000-4-6;
EN 61000-4-6; KN 61000-4-6; KS C 9610-4-6

Power Frequency Magnetic Field
Immunity (*Down to 3 A/m*)

IEC 61000-4-8 (1993) + A1(2000); IEC 61000-4-8 (2009);
EN 61000-4-8 (1994) + A1(2000);
KN 61000-4-8 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-8; EN 61000-4-8; KN 61000-4-8; KS C 9610-4-8

Voltage Dips, Short Interrupts, and Line
Voltage Variations

IEC 61000-4-11, Ed. 2 (2004-03);
KN 61000-4-11 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11;
KS C 9610-4-11

Ring Wave

IEC 61000-4-12, Ed. 2 (2006-09);
EN 61000-4-12:2006;
IEC 61000-4-12; EN 61000-4-12; KN 61000-4-12;
IEEE STD C62.41.2 2002

Generic and Product Specific EMC
Standards

IEC/EN 61000-6-1; AS/NZS 61000-6-1; KN 61000-6-1;
KS C 9610-6-1; IEC/EN 61000-6-2; AS/NZS 61000-6-2;
KN 61000-6-2; KS C 9610-6-2; IEC/EN 61000-6-3;
AS/NZS 61000-6-3; KN 61000-6-3; KS C 9610-6-3;
IEC/EN 61000-6-4; AS/NZS 61000-6-4; KN 61000-6-4;
KS C 9610-6-4; EN 50130-4; EN 61326-1; EN 50121-3-2;
EN 12895; EN 50270; EN 50491-1; EN 50491-2; EN 50491-3;
EN 55015; EN 60730-1; EN 60945; IEC 60533;
EN 61326-2-6; EN 61800-3; IEC/CISPR 14-2; EN 55014-2;
AS/NZS CISPR 14.2; KN 14-2; KS C 9814-2;
IEC/CISPR 24; AS/NZS CISPR 24; EN 55024; KN 24;
IEC/CISPR 35; AS/NZS CISPR 35; EN 55035; KN 35;
KS C 9835; IEC 60601-1-2; JIS T0601-1-2; ANSI C63.27

Test Technology:
TxRx EMC Requirements
European Radio Test Standards
Canadian Radio Tests
Mexico Radio Tests
Japan Radio Tests
Taiwan Radio Tests
Australia/New Zealand Radio Tests
Hong Kong Radio Tests
Korean Radio Test Standards
Vietnam Radio Test Standards
Test Method(s)¹:

EN 301 489-1; EN 301 489-3; EN 301 489-9;
EN 301 489-17; EN 301 489-19; EN 301 489-20

ETSI EN 300 086-1; ETSI EN 300 086-2;
ETSI EN 300 113-1; ETSI EN 300 113-2;
ETSI EN 300 220-1; ETSI EN 300 220-2;
ETSI EN 300 220-3-1; ETSI EN 300 220-3-2;
ETSI EN 300 330-1; ETSI EN 300 330-2;
ETSI EN 300 440-1; ETSI EN 300 440-2;
ETSI EN 300 422-1; ETSI EN 300 422-2;
ETSI EN 300 328; ETSI EN 301 893;
ETSI EN 301 511; ETSI EN 301 908-1;
ETSI EN 908-2; ETSI EN 908-13;
ETSI EN 303 413; ETSI EN 302 502;
EN 303 340; EN 303 345-2; EN 303 345-3; EN 303 345-4

RSS-102; RSS-102.NS.MEAS;
SPR-002; RSS-111; RSS-112; RSS-117; RSS-119; RSS-123;
RSS-125; RSS-127; RSS-130; RSS-131; RSS-132; RSS-133;
RSS-134; RSS-135; RSS-137; RSS-139; RSS-140; RSS-141;
RSS-142; RSS-170; RSS-181; RSS-182; RSS-192; RSS-194;
RSS-195; RSS-196; RSS-197; RSS-198; RSS-199;
RSS-210 (up to 40 GHz); RSS-211 (up to 40 GHz);
RSS-213; RSS-215; RSS-216 (up to 40 GHz);
RSS-220 (up to 40 GHz); RSS-222; RSS-236; RSS-238;
RSS-243; RSS-244; RSS-247; RSS-248; RSS-252; RSS-287;
RSS-288; RSS-310; RSS-GEN

IFT-008-2015; NOM-208-SCFI-2016

Radio Law No. 131, Ordinance of MPT No. 37, 1981,
MIC Notification No. 88:2004, Table No. 22-11;
ARIB STD-T66, Regulation 18

LP-0002 (February 6, 2024)

AS/NZS 4268; Radiocommunications (Short Range Devices)
Standard (2014)

HKCA 1039 Issue 6; HKCA 1042; HKCA 1033 Issue 7;
HKCA 1061; HKCA 1008; HKCA 1043; HKCA 1057;
HKCA 1073

KN 301 489-1; KN 301 489-3; KN 301 489-9;
KN 301 489-17; KN 301 489-52; KS X 3124; KS X 3125;
KS X 3130; KS X 3126; KS X 3129

QCVN 47:2015/BTTTT; QCVN 54:2020/BTTTT;
QCVN 55:2011/BTTTT; QCVN 65:2013/BTTTT;
QCVN 73:2013/BTTTT; QCVN 74:2020/BTTTT;
QCVN 112:2017/BTTTT; QCVN 117:2020/BTTTT