Class 1 Permissi	ve Change Measurements
Report Date	April 30, 2021
Manufacturer Name	Genie
Manufacturer	2501 S State Hwy 121 Ste 200
Address	Lewisville, TX 75067
Model No.	U2
Test Dates	April 30, 2021
Specifications	FCC "Code of Federal Regulations" Title 47 Part 15, Subpart C, Section 15.231(b) Innovation, Science, and Economic Development Canada, RSS-210 Innovation, Science, and Economic Development Canada, RSS-GEN
Test Facility	Elite Electronic Engineering, Inc. 1516 Centre Circle, Downers Grove, IL 60515
Tested by	Javier Cardenas

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### 1. Introduction

### 1.1. Scope of Tests

This document presents the limited spurious emissions measurements that were performed on the Genie Universal 2 Button Transmitter (hereinafter referred to as the Equipment Under Test (EUT)). The EUT was manufactured and submitted for testing by Genie located in Lewisville, TX.

### 1.2. Purpose

The measurements were performed to determine if the EUT meets the Class I Permissive Change requirements of the FCC "Code of Federal Regulations" Title 47, Part 15, Subpart C, Sections 15.231(b). The following modifications have been made to the original equipment:

- A change of resistor supplier

The measurements were also performed to determine if the EUT meets the Class I Permissive Change requirements of the Industry Canada Radio Standards Specification RSS-Gen and Industry Canada Radio Standards Specification RSS-210 for Transmitters. The following modifications have been made to the original equipment:

- A change of resistor supplier

Testing was performed in accordance with ANSI C63.10-2013.

### 1.3. Identification of the EUT

The EUTs was/were identified as follows:

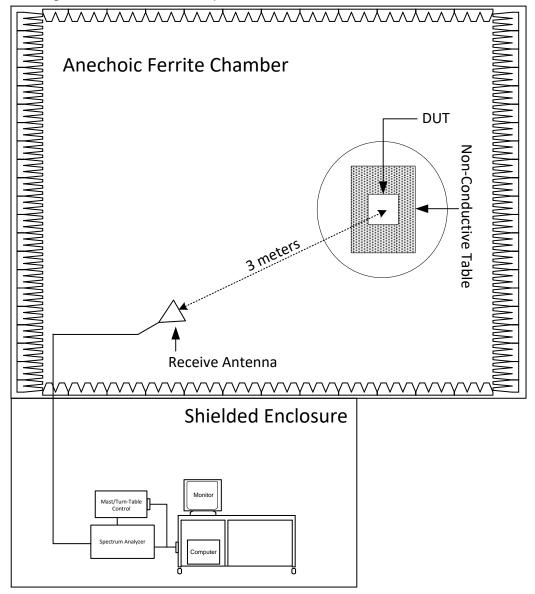
EUT Identification					
Product Description Universal 2 Button Transmitter					
Model/Part No.	U2				
Serial No.	NA				
Band of Operation	303 – 433.92MHz				

The EUT listed above was used throughout the test series.

# 2. Photographs of EUT



## 3. Block Diagram of Test Setup



Radiated Measurements Test Setup

## 4. Equipment List

Eq ID	Equipment Description	Manufacturer	Model No.	Serial No.	Frequency Range	Cal Date	Due Date
CDZ4	LAB WORKSTATION	ELITE	LWS-10		WINDOWS 10	CNR	
NTA3	BILOG ANTENNA	TESEQ	6112D	32853	25-1000MHz	10/20/2020	10/20/2021
RBG2	EMI ANALYZER	ROHDE & SCHWARZ	ESW44	101591	2HZ-44GHZ	3/11/2021	3/11/2022
WKA1	SOFTWARE, UNIVERSAL RCV EMI	ELITE	UNIV_RCV_EMI	1		I/O	

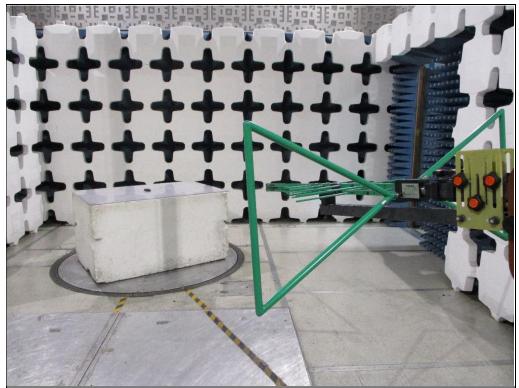
## 5. Spurious Radiated Emissions

Test Information				
Manufacturer Genie				
Product Universal 2 Button Transmitter				
Model U2				
Serial No	NA NA			
Mode	Continuous Tx			
Test Date	April 30, 2021			

Test Setup Details				
Setup Format	Tabletop			
Height of Support NA				
Type of Test Site	Semi-Anechoic Chamber			
Test site used	Room 21			
Notes	None			

Requirements							
The EUT must comply with the requirements of FCC "Code of Federal Regulations Title 47", Part 15, Subpart C, Section 15.205 et seq. as well as the requirements of the RSS-GEN specification Section 8.10.							
Field Strength of Spurious							
Carrier Frequency	Field Strength of Carrier	Emissions					
(MHz)	(μV/m)	(μV/m)					
40.66-40.70	2250	225					
70-130	1250	125					
130-174	1250 to 3750*	125 to 375*					
174-260	3750	375					
260-470	3750 to 12500*	375 to 1250*					
Δhove 470	12500	1250					

<sup>\*</sup>Linear interpolations

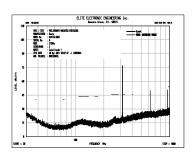


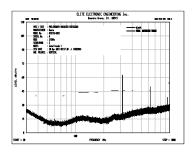
Test Setup for Spurious Radiated Emissions, 30-1000MHz – Antenna Polarization Horizontal



Test Setup for Spurious Radiated Emissions, 30-1000MHz – Antenna Polarization Vertical

Test Details				
Manufacturer	Genie			
Model	U2			
S/N	NA			
Mode	Continuous Tx			
Carrier Frequency	315MHz			
Requirements	Field Strength of Carrier Limit = 6041.67µV/m			
Notes	Intellicode 1			





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	Н	65.97		1.66	19.32	0.00	-13.22	73.74	4862.37	6041.67	-1.89
315.000	V	51.45		1.66	19.32	0.00	-13.22	59.22	913.79	6041.67	-16.41
630.000	Н	35.00		2.41	25.05	0.00	-13.22	49.24	289.71	604.17	-6.38
630.000	V	28.65		2.41	25.05	0.00	-13.22	42.89	139.47	604.17	-12.73
945.000	Н	28.03		2.96	26.97	0.00	-13.22	44.74	172.66	604.17	-10.88
945.000	V	24.48		2.96	26.97	0.00	-13.22	41.19	114.73	604.17	-14.43