



H.B. Compliance Solutions

Intentional Radiator Test Report

For the

Pawport

Smart Pet Door System

Tested under

The FCC Rules contained in Title 47 of the CFR, Part 15.250

Operation of wideband systems within the band 5925-7250MHz

January 15, 2026

Prepared for:

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A handwritten signature in black ink, appearing to read 'Hoosamuddin Bandukwala'.

Hoosamuddin Bandukwala



Cert # ATL-0062-E

Engineering Statement: The measurements shown in this report were made in accordance with the procedure indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurement made, the equipment tested is capable of operation in accordance with the requirements of Part 15 of the FCC Rules under normal use and maintenance. All results contained herein relate only to the sample tested.

Report Status Sheet

Revision #	Report Date	Reason for Revision
Ø	January 15, 2026	Initial Issue

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EXECUTIVE SUMMARY

1. Testing Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15.250. All tests were conducted using measurement procedure from ANSI C.63.10-2020 as appropriate.

Test Name	Test Method/Standard	Result	Comments
A/C Powerline Conducted Emissions	15.207	Pass	
Radiated Emissions at or below 960MHz	15.209, 15.250(d)(4)	Pass	
Frequency Stability	15.250(a)	Pass	
-10 dB Bandwidth	15.250(b)	Pass	
Radiated Spurious Emissions & Restricted Band	15.250(d)(1), (d)(2) 15.209(a), 15.205	Pass	
Peak Power in 50MHz Bandwidth	15.250(d)(3)	Pass	

EQUIPMENT CONFIGURATION

1. Overview

H.B Compliance Solutions was contracted by Pawport to perform testing on the Smart Pet Door System under quotation number Q25101003.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Pawport, Smart Pet Door System.

The tests were based on FCC Part 15 Rules. The tests described in this document were formal tests as described with the objective of the testing was to evaluate compliance of the Equipment Under Test (EUT) to the requirements of the aforementioned specifications. Pawport should retain a copy of this document and it should be kept on file for at least five years after the manufacturing of the EUT has been permanently discontinued. The results obtained relate only to the item(s) tested.

Product Name:	Smart Pet Door System
Model(s) Tested:	101-0001, 104-0001, 106-0001
FCC ID:	2BSOT-SPD101
Supply Voltage Input:	120 VAC
Frequency Range:	5925 MHz -7250 MHz
Type(s) of Modulation:	OOK
Range of Operation Power:	-27.23 dBm (EIRP)
Channel Spacing(s)	None
Test Item:	Pre-Production
Type of Equipment:	Fixed Use
Antenna Requirement (§15.203):	Type of Antenna: Ceramic Antenna Gain of Antenna: -0.5dBi
Environmental Test Conditions:	Temperature: 15-35°C Humidity: 30-60% Barometric Pressure: 860-1060 mbar
Modification to the EUT:	None
Evaluated By:	Staff at H.B. Compliance Solutions
Test Date(s):	10/24/2025 till 11/05/2025

2. Test Facility

All testing was performed at H.B. Compliance Solutions. This facility is located at 5005 S. Ash Avenue, Suite # A-10, Tempe AZ-85282. All equipment used in making physical determination is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a GTEM chamber (equivalent to an Open Area Test Site). In accordance with §2.948(a)(3), a complete site description is contained at H.B. Compliance Solutions.

Test facility H.B. Compliance Solutions is an ANAB accredited test site. The ANAB certificate number is L2458. The scope of accreditation can be found on ANAB website www.anab.org

FCC Registered Number: 738876

ISED Test Site Registration number is 9481A



3. Description of Test Sample

The Pawport Smart Pet Door is a Wi-Fi/BT connected, smart, motorized pet door that can either slide onto existing pet door frames on the inside or come as a complete system with inside and outside doors. The Outdoor Pet Door and the Exterior Sensor have identical PCBs; however, the exterior sensor does not have the attached doors or door motors.

The door connects with a smart pet tag which a pet wears on its collar. The Tag contains a Wideband beacon that is paired to the door. The door will detect when the tag is close in proximity to open the pet door.

Device contains FCC pre-certified Module FCC ID:
2AC7Z-ESP32WROOM32E

4. Equipment Configuration

Ref. ID	Name / Description	Model Number	Serial Number
# 1	Smart Pet Door (Inside)	101-0001	-
# 2	Outdoor Pet Door (Outside)	104-0001	-
# 3	Exterior Sensor (Outside)	106-0001	
# 4	AC/DC Wallwart (Shenzhen Veltok Technology Co., Ltd.)	USB-C PD 65W	-
# 5	Backup Battery	-	-

Table 1. Equipment Configuration

5. Support Equipment

All support equipment supplied is listed in the following Support Equipment List.

Ref ID	Name / Description	Manufacturer	Model #	Serial #
	N/A	N/A	N/A	N/A

Table 2. Support Equipment

6. Ports and Cabling Information

Ref ID	Port name on the EUT	Cable Description	Qty.	Length (m)	Shielded? (Y/N)	Termination Box ID & Port ID
# 6	# 1 Power	USB-C	1	2	N	# 4
# 7	# 2 or # 3 Power/Data	4 Wire – 3.5mm TRRS Jack	1	0.7	N	# 1

Table 3. Ports and Cabling Information

7. Method of Monitoring EUT Operation

A test receiver will be used to monitor the data transmission from the EUT.

The Device was placed into a test mode where the doors continuously opened and closed. Operation of the doors and audio notification of open status, LED light operation, and BLE/WIFI advertising were monitored for continued performance during testing.

8. Mode of Operation

The EUT will be configured in its normal operating mode. The RF signal is transmitting in the 5925-7250 MHz band. Spurious emissions from the pre-certified WIFI/Bluetooth transmitter were also investigated.

For radiated emissions pertaining to the individual transmitter locations, each transmitter was configured to continuously transmit for testing purposes. Only one transmitter was functioning at a time.

For temperature and voltage stability, the individual PCB boards containing the wideband transmitters were tested directly with conducted antenna ports.

As the device contains an optional backup battery, tests were performed with and without the battery. All emissions data is worst case.

9. Modifications

9.1 Modifications to EUT

No modifications were made to the EUT

9.2 Modifications to Test Standard

No Modifications were made to the test standard.

10. Disposition of EUT

The test sample including all support equipment submitted to H.B Compliance Solutions for testing will be returned to Pawport at the completion of testing & certification.

Criteria for Intentional Radiators

1. Conducted Emissions

Test Requirement(s):	§15.207, ANSI C63.4 2014	Test Engineer(s):	Sean E.
Test Results:	Pass	Test Date(s):	29 October, 2025

Test Procedures: The EUT was placed on a non-metallic table, 80cm above the ground plane inside a shielded enclosure. The EUT was powered through a 50Ω/50μH LISN. The conducted emissions tests were performed using AR emcware v4.1.2 software using the mode of operation and configuration noted within this report. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are the same as those cords normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically, those measurements are made using a LISN (Line Impedance Stabilization Network). All 50 Ohm measuring ports of the LISN are terminated by 50 Ohms, either by the 50 Ohm EMI receiver or a 50 Ohm resistive load.

Refer to the Emissions Tests Calculations section in the Radiated Emissions section for sample calculations. For the purposes of the conducted emissions test, the Antenna Factor (AF) is replaced by the LISN correction factor.

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.150 - 30	9.0	9.0	9.0
Measurements were made using the bandwidths and detectors specified. No video filter was used.			

Table 4. Conducted Emissions – Measurement Bandwidth

Frequency Range (MHz)	FCC Part 15.207 Limits (dBuV)	
	Quasi Peak	Average
0.15 – 0.5	66 - 56	56 - 46
0.5 – 5.0	56	46
5.0 – 30	60	50
Note 1 – The lower limit shall apply at the transition frequencies.		

Table 5. Conducted Emissions Limits – FCC Limits from Section 15.207

Test Setup:

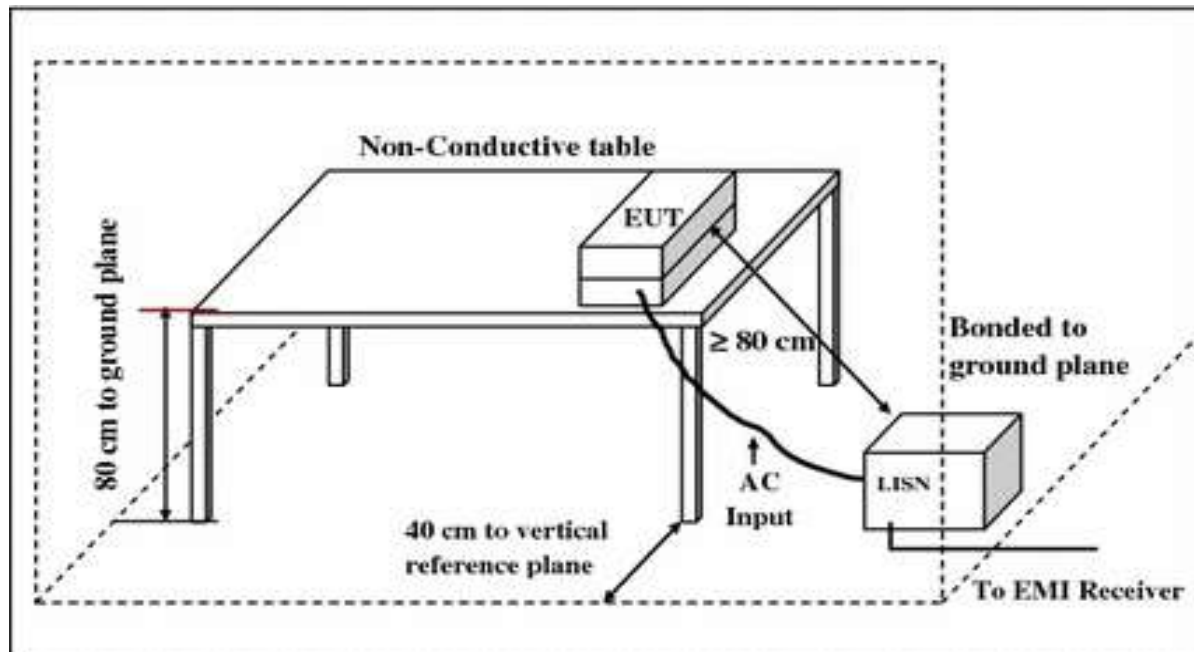
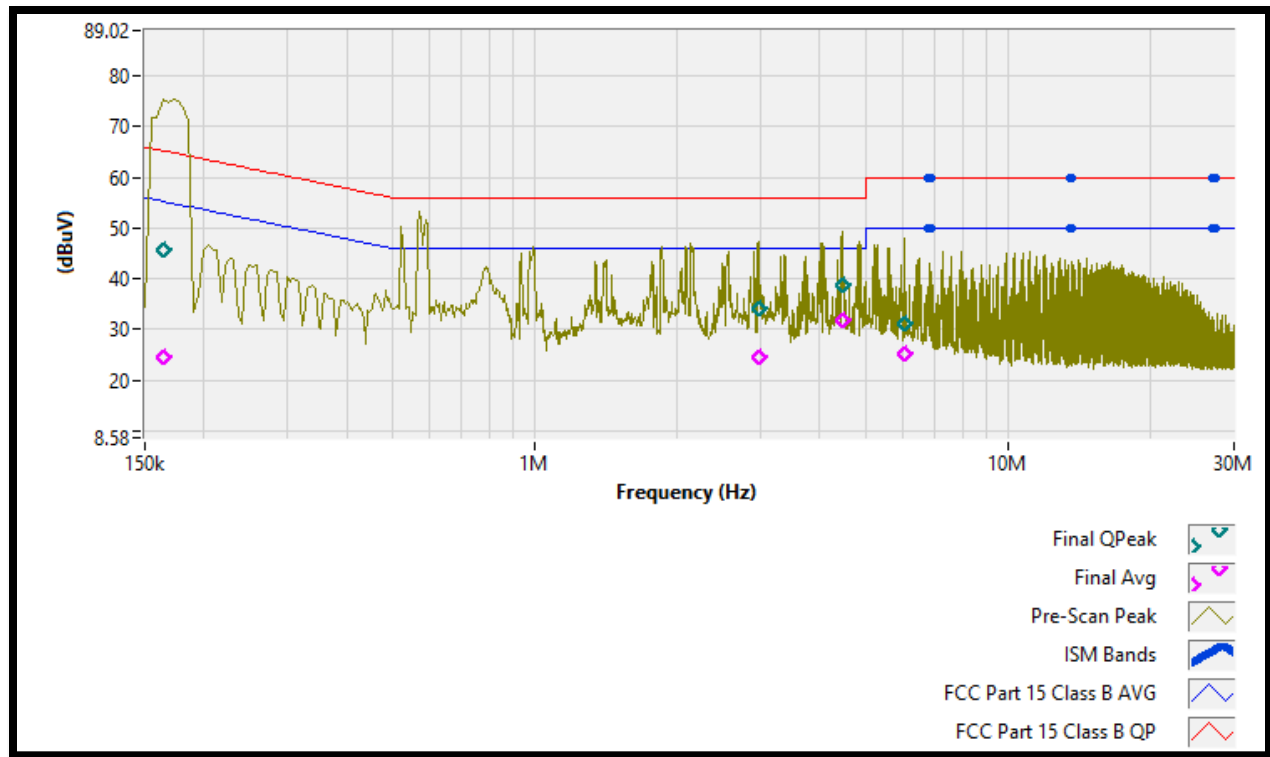


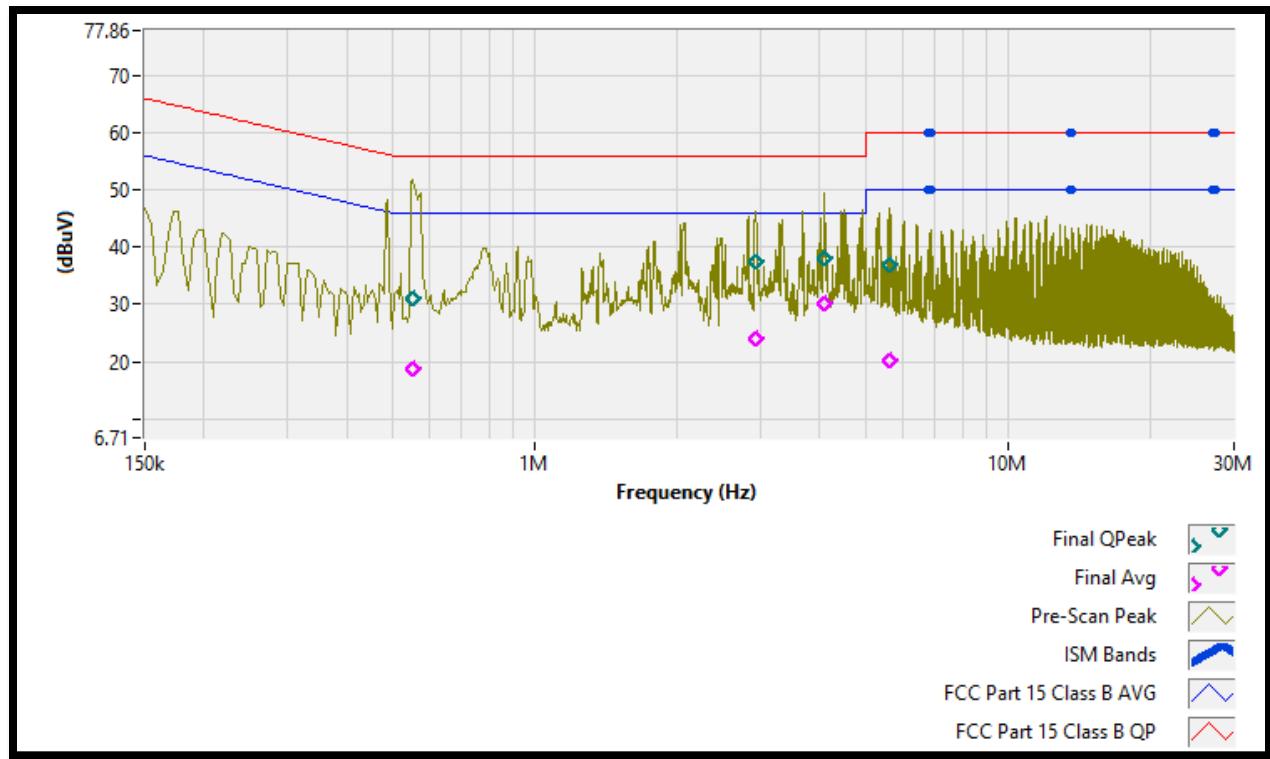
Figure 1. Conducted Emissions Test Setup



Plot 1 – Conducted Emissions – Positive Side

Frequency (Hz)	Measurement Detector	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)
163.534k	Peak	75.609	--	--
	QPeak	45.509	65.283	-19.773
	Avg	24.419	55.283	-30.863
2.974M	Peak	47.275	--	--
	QPeak	34.165	56	-21.835
	Avg	24.385	46	-21.615
4.467M	Peak	49.301	--	--
	QPeak	38.831	56	-17.169
	Avg	31.891	46	-14.109
6.024M	Peak	48.082	--	--
	QPeak	31.202	60	-28.798
	Avg	25.072	50	-24.928

Table 6. Measurement Results



Plot 2 – Conducted Emissions – Ground Side

Frequency (Hz)	Measurement Detector	Measured Level (dBuV)	Limit (dBuV)	Margin (dB)
551.501k	Peak	51.662	--	--
	QPeak	31.112	56	-24.888
	Avg	18.572	46	-27.428
2.933M	Peak	46.124	--	--
	QPeak	37.404	56	-18.596
	Avg	24.114	46	-21.886
4.075M	Peak	49.484	--	--
	QPeak	37.964	56	-18.036
	Avg	30.154	46	-15.846
5.627M	Peak	46.964	--	--
	QPeak	36.974	60	-23.026
	Avg	20.204	50	-29.796

Table 7. Measurement Results

2. Radiated Emissions

Test Requirement(s):	§15.209	Test Engineer(s):	Sean E.
Test Results:	Pass	Test Date(s):	27-29 October, 2025

Test Procedures:

The final radiated emissions test was performed using the parameters described above as worst case. That final test was conducted at a facility that meets the ANSI C63.4 TEM waveguides requirements. The frequency range noted in the data sheets was scanned/tested at that facility. Emissions were maximized as specified, by varying table azimuth and manipulating cables.

Using the mode of operation and configuration noted within this report, a final radiated emissions test was performed. The frequency range investigated (scanned), is also noted in this report. Radiated emissions measurements were made at the EUT azimuth such that the maximum radiated emissions level will be detected. This requires the use of a manipulator.

Tests were made with the EUT rotated on X,Y,Z planes to obtain the maximum signal strength. Though specified in the report, the measurement distance shall be 3 meters.

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
30 MHz to 1 GHz	120 kHz	120 kHz	N/A
1 GHz to 6 GHz	1MHz	N/A	1MHz
Measurements were made using the bandwidths and detectors specified. The video filter was at least as wide as the IF bandwidth of the measuring receiver.			

Table 8. Radiated Emissions – Measurement Bandwidth

Emissions Tests Calculations

In the case of indoor measurements, radiated emissions measurements are made by the manipulation of correction factors using TILE4 software. This is done automatically by the software during the final measurement process.

In both cases, the level of the Field Strength of the interfering signal is calculated by adding the Antenna Factor, Cable Factor and by subtracting the Amplifier Gain from the measured reading. The basic equation is as follows:

$$FS = RA + AF + (CF - AG)$$

Where: FS = Field Strength

RA = Receiver (indicated) Amplitude

AF = Antenna Factor

CF = Cable Attenuation Factor

AG = Amplifier Gain

This laboratory uses an approach of combining the CF and AG using an end-to-end measurement of the entire cabling system, including the test cable, any in-line amplifiers, attenuators, or transient protection networks, all measured in-situ.

For a sample calculation, assume a receiver reading of 52.5 dBuV is obtained. With an antenna factor of 7.4 and a combined cable factor (CF + AG) of -27.9:

$$FS = 52.5 + 7.4 + (-27.9) = 32 \text{ dBuV/m}$$

$$FS = 32 \text{ dBuV/m}$$

If desired, this can be converted into its corresponding level in uV/m:

$$FS = 10^{((32 \text{ dBuV/m})/20)} = 39.8 \text{ uV/m}$$

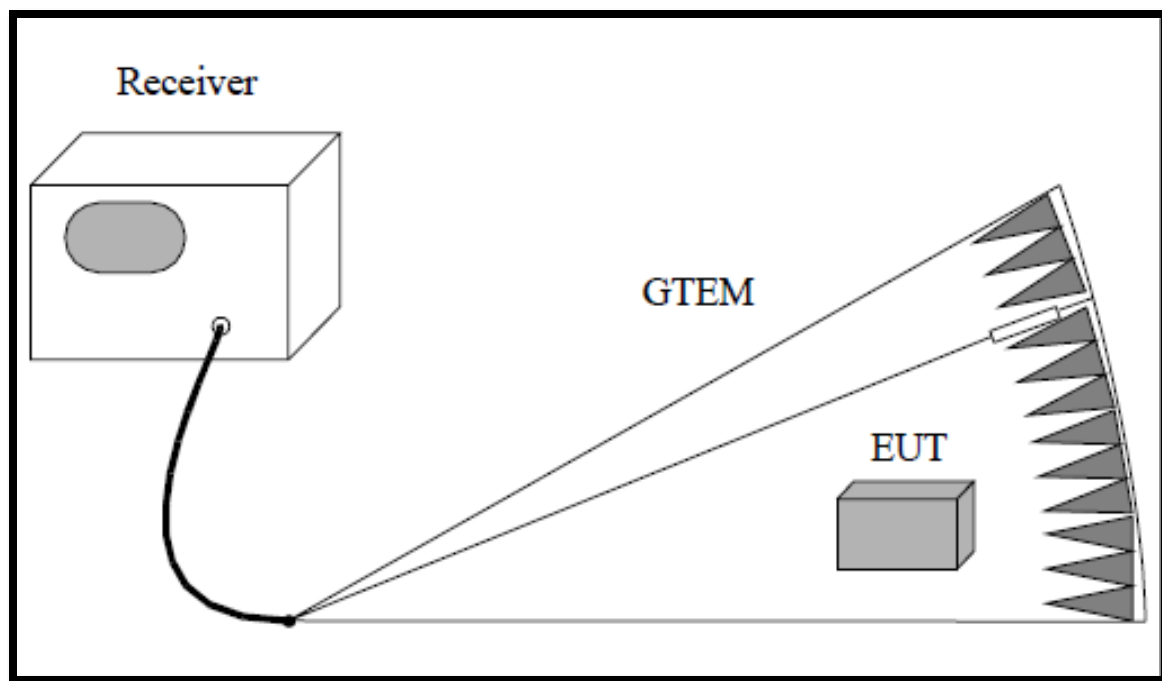
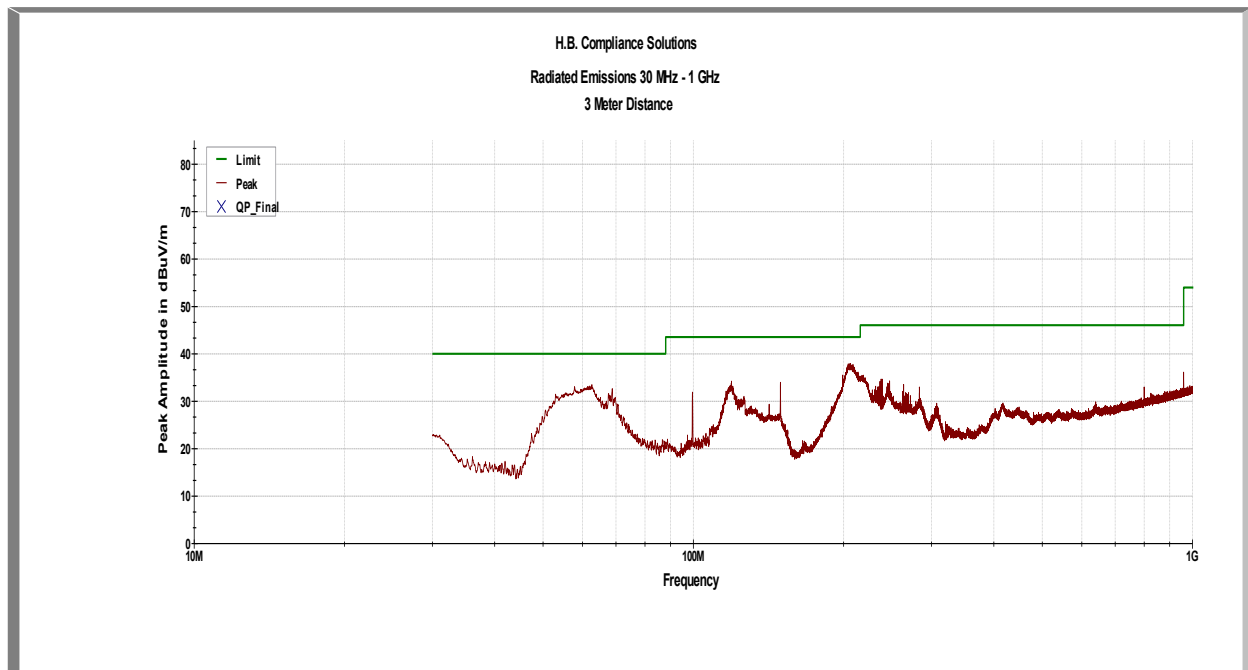


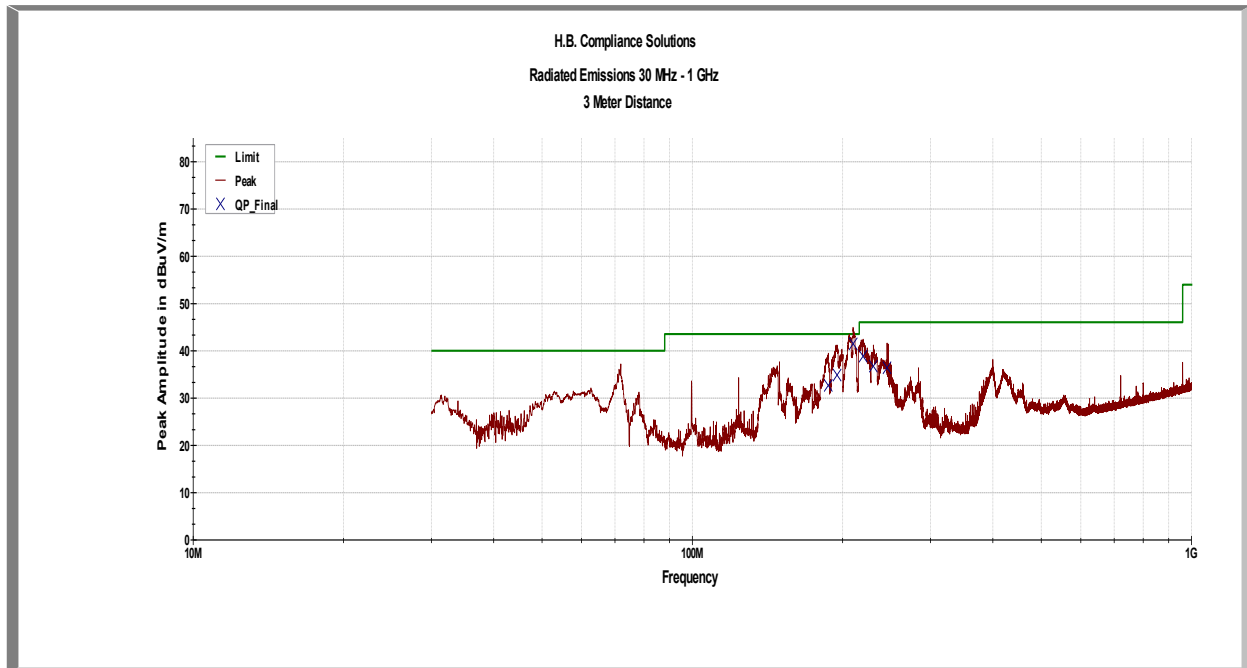
Figure 2. Radiated Emissions Test Setup (30MHz – 1GHz)



Plot 3 – Radiated Emissions – 30MHz to 1GHz – Doors Idle, Battery Charging

Frequency (MHz)	Measured Level (dBuV/m)	Measurement Detector	Limit (dBuV)	Margin (dB)
30.15	22.96	Peak	40	-17.04
62.64	33.49	Peak	40	-6.51
99.59	31.93	Peak	43.52	-11.59
119.24	34.24	Peak	43.52	-9.28
149.41	33.99	Peak	43.52	-9.53
206.06	37.92	Peak	43.52	-5.6

Table 9. Final Peak Measurement Results for Radiated Emissions – Doors Idle, Battery Charging



Plot 4 – Radiated Emissions – 30MHz to 1GHz – Doors Running, AC Power

Frequency (MHz)	Measured Level (dBuV/m)	Measurement Detector	Limit (dBuV)	Margin (dB)
187.19	32.65	Quasi Peak	43.52	-10.87
194.96	34.86	Quasi Peak	43.52	-8.66
209.98	41.48	Quasi Peak	43.52	-2.04
219.81	38.83	Quasi Peak	46.02	-7.19
230.50	36.75	Quasi Peak	46.02	-9.27
245.49	36.4	Quasi Peak	46.02	-9.62

Table 10. Final Peak Measurement Results for Radiated Emissions – Doors Running, AC Power

3. Frequency Stability (Temperature & Voltage)

Test Requirement(s):	15.250(a)	Test Engineer(s):	Sean E.
Test Results:	Pass	Test Date(s):	28-30 October, 2025

Test Procedure: As required by 47 CFR 15.250(a), Operation of wideband systems within the band 5925-7250MHz. The -10 dB bandwidth of a device must be contained within the band under all conditions of operation including the effects from stepped frequency, frequency hopping or other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage.

The EUT was placed in an Environmental Chamber with all the support equipment outside the chamber. The EUT was set to transmit continuously. The reference frequency at 20°C was observed and noted down. The frequency drift was investigated for every 10°C increment until the unit was stabilized then recorded the reading in tabular format with the temperature range of -20°C to 50°C.

Test Setup:

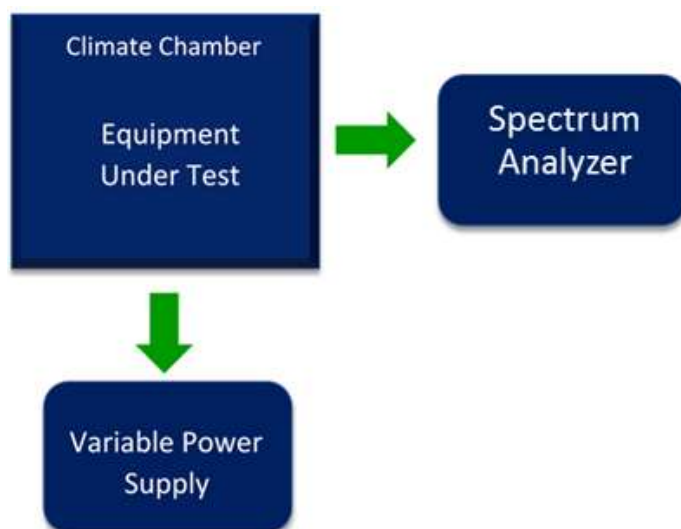


Figure 3. Frequency Stability Test Setup

Test Results:

Temperature (°C)	-10 dB Band Edges (MHz)		Frequency Limits (MHz)		Results
	f _L	f _H	Lower	Upper	
50	6654	7093	5925	7250	Pass
40	6620	7068	5925	7250	Pass
30	6608	7073	5925	7250	Pass
20	6593	7047	5925	7250	Pass
10	6652	7119	5925	7250	Pass
0	6618	7106	5925	7250	Pass
-10	6625	7106	5925	7250	Pass
-20	6592	7099	5925	7250	Pass

Table 11. Temperature Frequency Stability, Test Results – Smart Pet Door (Inside)

Temperature (°C)	-10 dB Band Edges (MHz)		Frequency Limits (MHz)		Results
	f _L	f _H	Lower	Upper	
50	6601	7088	5925	7250	Pass
40	6592	7080	5925	7250	Pass
30	6577	7081	5925	7250	Pass
20	6572	7077	5925	7250	Pass
10	6561	7075	5925	7250	Pass
0	6575	7063	5925	7250	Pass
-10	6551	7077	5925	7250	Pass
-20	6539	7086	5925	7250	Pass

Table 12. Temperature Frequency Stability, Test Results – Outdoor Pet Door/Exterior Sensor (Outside)

Voltage (VDC at 20°C)		-10 dB Band Edges (MHz)		Frequency Limits (MHz)		Results
		f_L	f_H	Lower	Upper	
V_{NOM}	3.3V	6572	7077	5925	7250	Pass
V_{High}	3.8V	6609	7120	5925	7250	Pass
V_{Low}	2.81V	6654	7178	5925	7250	Pass

Table 13. Voltage Frequency Stability, Test Results – Smart Pet Door (Inside)

Voltage (VDC at 20°C)		-10 dB Band Edges (MHz)		Frequency Limits (MHz)		Results
		f_L	f_H	Lower	Upper	
V_{NOM}	5V	6527	7094	5925	7250	Pass
V_{High}	5.75V	6601	7171	5925	7250	Pass
V_{Low}	4.25V	6140	6644	5925	7250	Pass

Table 14. Voltage Frequency Stability, Test Results – Outdoor Pet Door/Exterior Sensor (Outside)

4. -10 dB Bandwidth

Test Requirement(s):	§15.250(b)	Test Engineer(s):	Sean E.
Test Results:	Pass	Test Date(s):	29 October, 2025

Test Procedures: As required by 47 CFR 15.250(b), The -10 dB bandwidth of the fundamental emission shall be at least 50 MHz. For transmitters that employ frequency hopping, stepped frequency or similar modulation types, measurement of the -10 dB minimum bandwidth specified in this paragraph shall be made with the frequency hop or step function disabled and with the transmitter operating continuously at a fundamental frequency following the provisions of §15.31(m).

Customer provided conducted samples of the transmitter PCBs configured to continually transmit. The EUT was connected to a Spectrum Analyzer. The highest peak power measured was set relative to zero dB reference. The RBW of the Spectrum Analyzer was set to 1MHz and VBW>RBW. Markers were placed on the lower and upper -10dB points and the frequencies were recorded.

Test Setup:

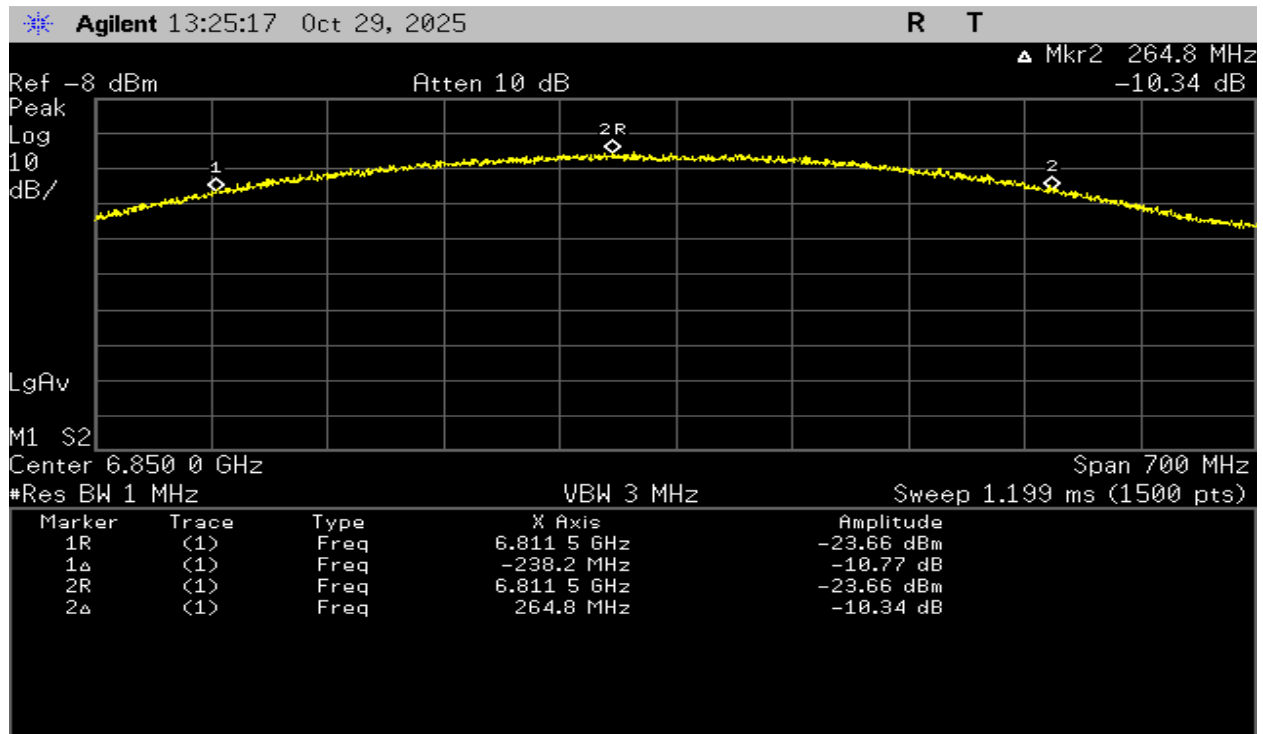


Figure 4. -10 dB Bandwidth Test Setup

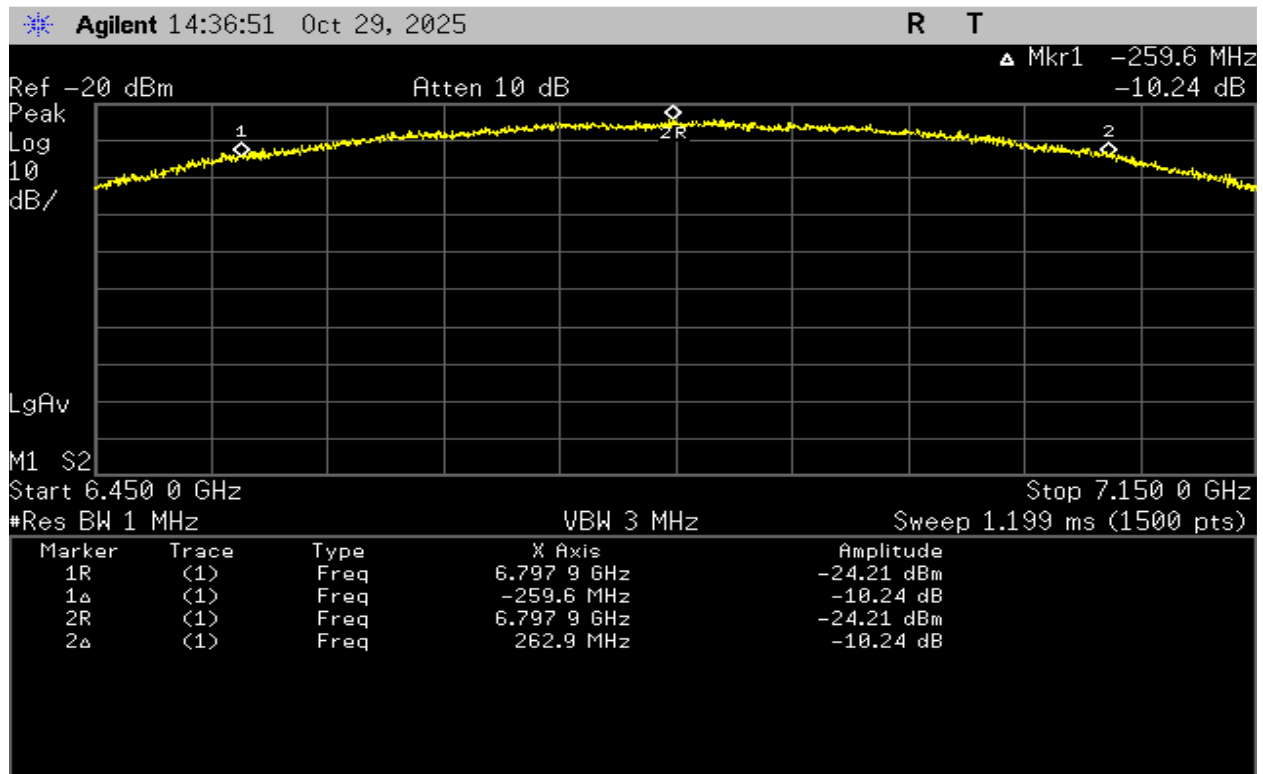
Test Results:

Peak Frequency f_M (MHz)	Lowest Frequency f_L (MHz)	Highest Frequency f_H (MHz)	-10 dB Bandwidth (MHz) ($f_H - f_L$)	Specification Limit	Comment
6775.0	6573.3	7076.3	500.3	≥ 50 MHz	Smart Pet Door (Inside)
6750.0	6538.3	7060.8	522.5	≥ 50 MHz	Outdoor Pet Door / External Sensor (Outside)

Table 15. -10 dB Bandwidth, Test Results



Plot 5 – 10 dB Bandwidth – Smart Pet Door (Inside)



Plot 6 – 10 dB Bandwidth – Outdoor Pet Door / External Sensor (Outside)

5. Radiated Spurious Emissions and Restricted Band

Test Requirement(s):	§15.250(d)(1),(2) 15.209(a), 15.205,	Test Engineer(s):	Sean E.
Test Results:	Pass	Test Date(s):	03-05 November, 2025

Test Procedures: As required by 47 CFR 15.250, Radiated spurious measurements were made in accordance with the procedures of ANSI C63.10.

The EUT was placed on a non-reflective table inside a 3-meter open area test site. The EUT was set on continuous transmit.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The frequency range up to the 10th harmonic was investigated.

After emissions from the FCC pre-certified module were investigated, measurement antenna was moved to a distance of 1 meter in order to compensate for the system noise floor. The EIRP Limits for 15.250(d)(1),(2) were converted to a 1-meter distance using a 20 dB/decade correction.

To get a maximum emission level from the EUT, the EUT was rotated throughout the X-axis, Y-axis and Z-axis. Worst case is X-axis

Detector Setting	Resolution Bandwidth	Video Bandwidth	Span
Peak	1MHz	3MHz	As necessary
Average	1MHz	As Specified in §15.35(c)	0 Hz
RMS 15.250(d)(1)	1MHz	3MHz	As necessary
RMS 15.250(d)(2)	1kHz	3kHz	As necessary

Table 16. Analyzer Settings

Test Setup:

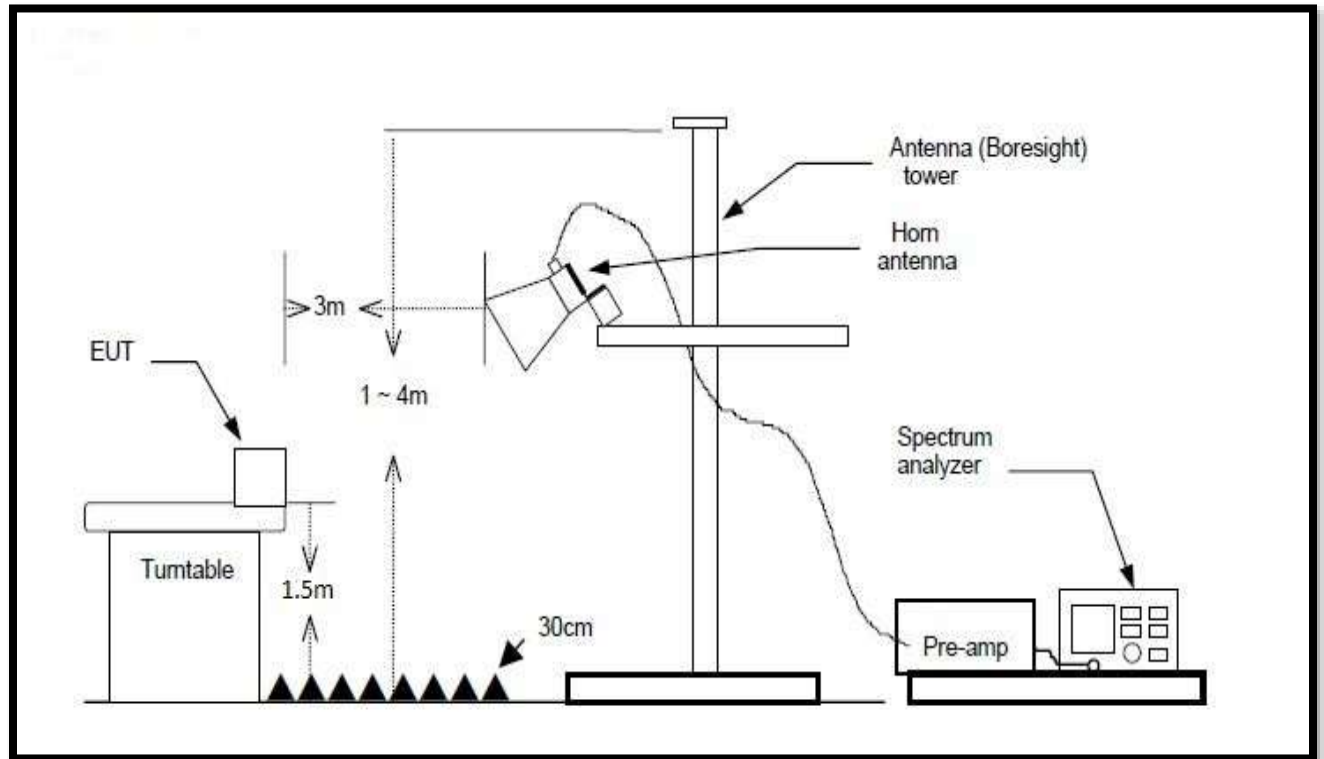


Figure 5. Radiated Emission Above 1GHz Test Setup

Test Result:

Frequency (MHz)	Detector	Final EIRP Measurement (dBm)	EIRP Limit (dBm)	Margin (dB)
1296	RMS	-71.09	-65.7	-5.39
1722	RMS	-68.77	-53.7	-15.07
2728	RMS	-59.27	-51.7	-7.57
4566	RMS	-57.66	-41.7	-15.96
6925	RMS	-47.72	-31.7	-16.02
13671	RMS	-55.47	-51.7	-3.77

Table 17 – Spurious Radiated Emission Data – 15.250 (d)(1) Limits – Smart Pet Door (Inside)

Frequency Band	Frequency (MHz)	Detector	Final EIRP Measurement (dBm)	EIRP Limit (dBm)	Margin (dB)
1164-1240	1200	RMS	-95.49	-75.7	-19.79
1559-1610	1576	RMS	-99.39	-75.7	-23.69

Table 18 – Spurious Radiated Emission Data – 15.250 (d)(2) Limits – Smart Pet Door (Inside)

Frequency (MHz)	Detector	Final EIRP Measurement (dBm)	EIRP Limit (dBm)	Margin (dB)
1265	RMS	-68.55	-65.7	-2.85
1744	RMS	-68.13	-53.7	-14.43
2337	RMS	-59.49	-51.7	-7.79
4767	RMS	-48.5	-41.7	-6.8
6875	RMS	-46.86	-31.7	-15.16
8560	RMS	-55.15	-51.7	-3.45
13709	RMS	-54.56	-51.7	-2.86

Table 19 – Spurious Radiated Emission Data – 15.250 (d)(1) Limits – Outdoor Pet Door / External Sensor (Outside)

Frequency Band	Frequency (MHz)	Detector	Final EIRP Measurement (dBm)	EIRP Limit (dBm)	Margin (dB)
1164-1240	1169	RMS	-90.91	-75.7	-15.21
1559-1610	1569	RMS	-99.34	-75.7	-23.64

Table 20 – Spurious Radiated Emission Data – 15.250 (d)(2) Limits – Outdoor Pet Door / External Sensor (Outside)

6. Peak Emissions in a 50 MHz Bandwidth

Test Requirement(s):	§15.250(d)(3)	Test Engineer(s):	Sean E.
Test Results:	Pass	Test Date(s):	03 November, 2025

Test Procedures: As required by 47 CFR 15.250(d)(3), There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs and this 50 MHz bandwidth must be contained within the 5925-7250 MHz band.

The peak EIRP limit is $20 \log (RBW/50)$ dBm where RBW is the resolution bandwidth in megahertz that is employed by the measurement instrument. RBW shall not be lower than 1 MHz or greater than 50 MHz. The video bandwidth of the measurement instrument shall not be less than RBW.

Customer provided a test mode internal to the EUT to control the RF modulation, and frequency channel. The EUT output was connected directly to the spectrum analyzer through an attenuator. The EUT was set up at maximum power, first on the lowest operating channel, then on the highest operating channel of the transmit band.

Detector Setting	Resolution Bandwidth	Video Bandwidth	Sweep Time
Peak	1 MHz	3 MHz	Auto

Table 21 – Analyzer settings

Bandwidth conversion of peak power measurements

$$EIRP_{1MHz} = EIRP_{50MHz} + 20 \log (1 \text{ MHz} / 50 \text{ MHz}) = 0 \text{ dBm} + (-34 \text{ dB}) = -34 \text{ dBm}$$

Limit EIRP (50 MHz RBW)	Limit EIRP (1 MHz RBW)	dBuV/m @ 3m	dBuV/m @ 1m
0 dBm	-34 dBm	61.2	70.8

Table 22 – Peak Power Limit Conversions

Test Results:

Frequency (MHz)	Measured Level (dBuV/m)	Limit @ 1m (dBuV/m)	Margin (dB)	Comment
6925.0	67.97	70.8	-2.83	Inside Door
6875.0	66.47	70.8	-4.33	Outside Door/External Sensor

Table 23 – Peak Emissions Summary (dBuV/m)

Frequency (MHz)	Measured EIRP Level (dBm)	EIRP Limit @ 1m (dBm)	Margin (dB)	Comment
6925	-27.23	-24.4	-2.83	Inside Door
6875	-28.73	-24.4	-4.33	Outside Door / External Sensor

Table 23 – Peak Emissions Summary (EIRP)

Note: Antenna Factor (including Pre-amp Gain) and Cable Loss have been entered in the above Measured Levels

7. Test Equipment

Equipment	Manufacturer	Model	Serial #	Last Cal Date	Cal Due Date
Spectrum Analyzer	Agilent	E4443A	US41420164	Jul-15-25	Jul-15-26
Spectrum Analyzer	Hewlett Packard	8563E	3821A09316	May-08-24	May-08-26
EMI Receiver	Hewlett Packard	8566B	2747A05264	Mar-25-25	Mar-25-26
Temp Chamber	TestEquity	1027C	17953	Aug-26-25	Aug-26-27
EMI Test Receiver	Rhode & Schwarz	ESMI26	840607/005	Jan-28-25	Jan-28-26
EMC Spectrum Analyzer	Hewlett Packard	8595EM	3801A00177	Jul-23-25	Jul-23-26
Two Line V-Network LISN	Teseq	NNB 51	43198	Feb-12-25	Feb-12-28
Pre-Amplified Horn Antenna	Com-Power	AHA-118	711150	Feb-13-25	Feb-13-28
Antenna	EMCO	GTEM 5417	1063	Verified	

Table 24 – Test Equipment List

***Statement of Traceability:** Test equipment is maintained and calibrated on a regular basis. All calibrations have been performed by a 17025 accredited test facility, traceable to National Institute of Standards and Technology (NIST)

8. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. These measurements figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2. Instrumentation measurement uncertainty has **not** been taken into account to determine compliance.

The following measurement uncertainty values have been calculated as show in the table below:

Measured Parameter	Measurement Unit	Frequency Range	Expanded Uncertainty
Conducted Emissions (AC Power)	dBuV or dBuA	150kHz – 30MHz	± 4.3dB
Radiated Emission below 30MHz	dBuV/m	9kHz-30MHz	± 2.96dB
Radiated Emissions below 1GHz	dBuV/m	30 – 1000MHz	± 5.6dB
Radiated Emissions above 1GHz	dBuV/m	1 – 26.5GHz	± 4.1dB
Occupied Channel Bandwidth	dBm	150kHz-8GHz	±5%
Temperature	°C	-10 to 60	0.2
DC Voltage	Volts	DC – 1000	0.3%

The reported expanded uncertainty has been estimated at a 95% confidence level (k=2)

END OF TEST REPORT