

TEST REPORT

Report Number: R15954510-E2

Applicant : Automated Pet Care Products, LLC dba Whisker
1080 W Entrance Dr
Auburn Hills, MI 48326-2723
United States

Model : LR5P-XXXX

FCC ID : 2BCHY-LR5PRO

IC : 31068-LR5PRO

EUT Description : Litter-Robot 5 Pro

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 ISSUE 4
ISED RSS-GEN ISSUE 5 + A1 + A2

Date Of Issue:
2025-11-19

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2025-11-19	Initial Issue	Chandler Stanley

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Automated Pet Care Products, LLC dba Whisker
1080 W Entrance Dr
Auburn Hills, MI 48326-2723
United States

EUT DESCRIPTION: Litter-Robot 5 Pro

MODEL: LR5P-XXXX

SERIAL NUMBER: E350800138B374M and LR5-02-40-01-2510-29E2A3

SAMPLE RECEIPT DATE: 2025-09-16, 2025-09-19, 2025-09-25, 2025-10-24, 2025-11-10,
and 2025-11-13

DATE TESTED: 2025-10-21 to 2025-11-18

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Refer to Section 2
ISED RSS-247 Issue 4	
ISED RSS-GEN Issue 5 + A1 + A2	

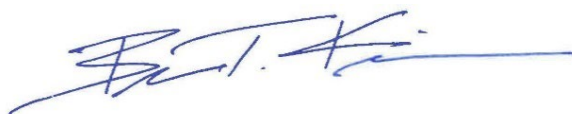
UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the sample tested, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to ensure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document.

Approved & Released
For UL LLC By:

Prepared By:



Brian Kiewra
Project Engineer
Consumer, Medical and IT Segment
UL LLC



Chandler Stanley
Engineer
Consumer, Medical and IT Segment
UL LLC

2. TEST RESULTS SUMMARY

This report contains info provided by the customer which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

Below is a list of the data/info provided by the customer:

- 1) Antenna gain and type (see section 6.3)
- 2) Worst-case data rates (see section 6.5)

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	Per ANSI C63.10, Section 11.6.
See Comment	RSS-GEN 6.7	20dB BW/99% OBW	Reporting purposes only	ANSI C63.10 Sections 6.9.2 and 6.9.3
15.247 (a)(1)	RSS-247 (6.2.1) (b)	Hopping Frequency Separation	Compliant	None
15.247 (a)(1)(i)	RSS-247 (6.2.2.1) (c)	Number of Hopping Channels		
15.247 (a)(1)(i)	RSS-247 (6.2.2.1) (c)	Average Time of Occupancy		
15.247 (b)(2)	RSS-247 (6.2.2.2) (a)	Output Power		
See Comment		Average Power	Reporting purposes only	Per ANSI C63.10, Section 11.9.2.3.2.
15.247 (d)	RSS-247 (6.6)	Conducted Spurious Emissions	Compliant	None
15.209, 15.205	RSS-GEN 8.9, 8.10	Radiated Emissions		
15.207	RSS-Gen 8.8	AC Mains Conducted Emissions		

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC 47 CFR Part 2, FCC 47 CFR Part 15, ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, RSS-GEN Issue 5 + A1 + A2, and RSS-247 Issue 4.

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, certification # 0751.06, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
☐	Building: 12 Laboratory Dr Durham, NC 27713, U.S.A	US0067	2180C	825374
☒	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A		27265	

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.2 Hz
Occupied Channel Bandwidth	1.22%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	6.01 dB
Conducted Emissions (0.150-30MHz) - LISN	3.40 dB
Temperature	0.57°C
Humidity	3.39%
DC Supply voltages	1.70%
Time	3.39%

Uncertainty figures are valid to a confidence level of 95%.

5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT utilizes a 2.4 GHz WLAN, 5 GHz WLAN, and a 900 MHz RFID radio. This report covers testing on the 900 MHz RFID radio.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
902-928	ASK	19.39	86.90

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna's gain and type, as provided by the manufacturer' are as follows:
The radio utilizes an antenna with the following type and maximum gain:

Type	Frequency Range (MHz)	Maximum Gain (dBi)
Trace Antenna	902-928	1.98

6.4. SOFTWARE AND FIRMWARE

The firmware installed on the EUT for testing was STM – v5.5.8.

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 30MHz and AC lines were performed with the EUT set to transmit at the channel with the highest average output power as the worst-case scenario.

Radiated emissions between 30MHz and 18GHz were performed with the EUT set to transmit on low, middle and high channels.

The EUT is only meant to operate in one orientation; therefore, all final testing was performed with the EUT in its intended orientation.

The EUT was investigated for tag on and tag off modes and it was found that tag on is worst-case. Therefore, all final radiated testing was performed with a tag on.

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC/DC Adapter	Whisker	DYS965-150400S-1	250815	NA
Tag	Whisker	NA	NA	NA

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	Power	1	Barrel	Shielded	<3m	Part of the AC/DC Adapter
2	Program	1	USB-c	Shielded	<3m	Used for programming

TEST SETUP

The EUT was programmed to transmit on the desired channels and modes using a support laptop. The laptop was removed from the chamber for testing.

SETUP DIAGRAMS

Please refer to R15954510-EP1 for setup diagrams

7. MEASUREMENT METHODS

On Time and Duty Cycle: ANSI C63.10-2020 Section 11.6

Occupied BW (20dB): ANSI C63.10-2020 Section 6.9.2

Occupied BW (99%): ANSI C63.10-2020 Section 6.9.3

Carrier Frequency Separation: ANSI C63.10-2020 Section 7.8.2

Number of Hopping Frequencies: ANSI C63.10-2020 Section 7.8.3

Time of Occupancy (Dwell Time): ANSI C63.10-2020 Section 7.8.4

Output Power: ANSI C63.10-2020 Section 7.8.5

Conducted Spurious Emissions: ANSI C63.10-2020 Section 7.8.7

Conducted Band-Edge: ANSI C63.10-2020 Section 7.8.7.2 and 6.10.4

Radiated Band-edge: ANSI C63.10-2020 Section 6.10.5

Radiated Spurious Emissions: ANSI C63.10-2020 Sections 6.3 to 6.6 and 7.8.8

8. TEST AND MEASUREMENT EQUIPMENT

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Conducted Room 1					
248881	Environmental Meter 240303668	Control Company	06-662-4	2024-04-10	2026-04-10
90410	Spectrum Analyzer MY54410168	Keysight Technologies	N9030A	2025-07-10	2026-07-10
211056	Real-Time Peak Power Sensor 50MHz to 8GHz 12001	Boonton	RTP5000	2025-07-30	2026-07-30
SOFTEMI	Antenna Port Software	UL	Version 2024.2.23		
Power Software	Boonton Power Analyzer	Boonton	Version 3.0.13.0	-	-
259680	SMA Coaxial 10dB Attenuator 25MHz-18GHz	CentricRF	C27S-10	2025-08-11	2026-08-11
CBL078	18-40GHz 36in 2.92mm RF Cable	MEGAPHASE	GC12-K1K1-36	2025-08-26	2026-08-26

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville – Chamber 1)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
135144	Active Loop Antenna	ETS-Lindgren	6502	2024-10-02	2025-10-31
30-1000 MHz					
90629	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2024-01-30	2026-01-30
1-18 GHz					
135143	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2024-02-07	2026-02-07
Gain-Loss Chains					
91974	Gain-loss string: 0.009-30MHz	Various	Various	2025-05-31	2026-05-31
91976	Gain-loss string: 25-1000MHz	Various	Various	2025-05-31	2026-05-31
91979	Gain-loss string: 1-18GHz	Various	Various	2025-05-31	2026-05-31
Receiver & Software					
197955	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-05-12	2026-05-12
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
Additional Equipment used					
241205	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2027-08-05
167153 (BRF007)	902-928MHz notch filter, 2W. Fhigh =1.5GHz	Micro-Tronics	BRC17691	2025-03-13	2026-03-13

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2025-04-17	2026-04-17
179892	Environmental Meter	Fisher Scientific	15-077-963	2025-08-5	2026-08-06
91432	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2025-7-30	2026-7-30
80389	LISN, 50-ohm/50-uH, 250uH 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50/250-25-2-01	2024-08-2025-7-30	2026-7-30
75141	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2025-7-30	2026-07-30
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2025-7-30	2026-07-30
236852	AC Power Source	California Instruments	CW2501M	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		

9. ANTENNA PORT TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

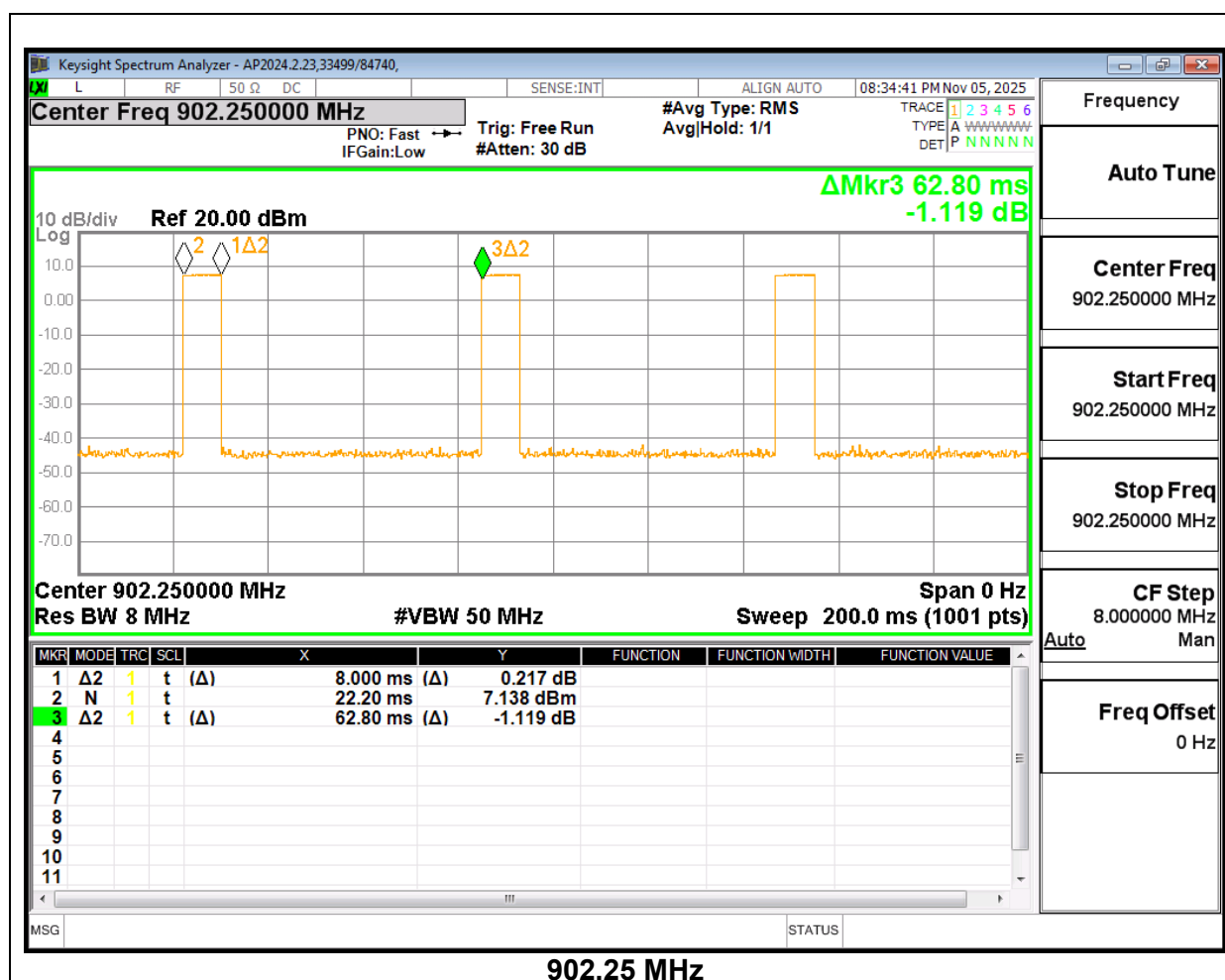
PROCEDURE

ANSI C63.10, Section 11.6: Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
RFID	8.000	62.800	0.127	12.7389	17.90	0.125

DUTY CYCLE PLOTS



9.2. 20 dB AND 99% BANDWIDTH

LIMITS

20 dB BW < 500 kHz

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to 1-5% of the 20 dB bandwidth. The VBW is set to $\geq$ RBW. The sweep time is coupled.

RESULTS

Channel	Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
Low	902.25	166.30	170.09
Mid	915.25	164.40	169.79
High	927.75	163.30	170.04

The 20 dB BW is less than 500 kHz and therefore is compliant.



9.3. HOPPING FREQUENCY SEPARATION

LIMITS

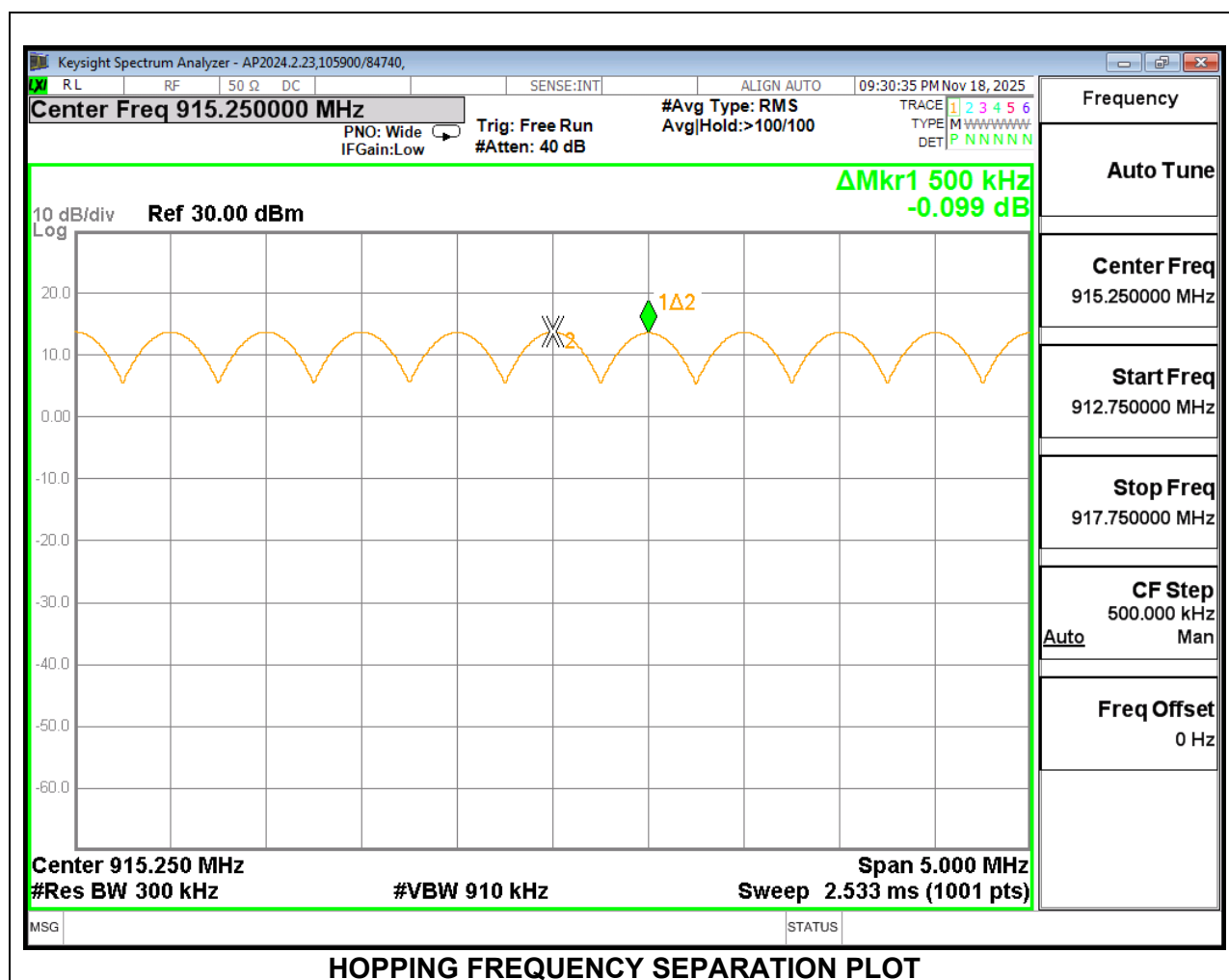
FCC §15.247 (a) (1)
RSS-247 (6.2.1) (b)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to 300 kHz and the VBW is set to VBW >= RBW. The sweep time is coupled.

RESULTS



9.4. NUMBER OF HOPPING CHANNELS

LIMITS

FCC §15.247 (a) (1) (i)
RSS-247 (6.2.2.1) (c)

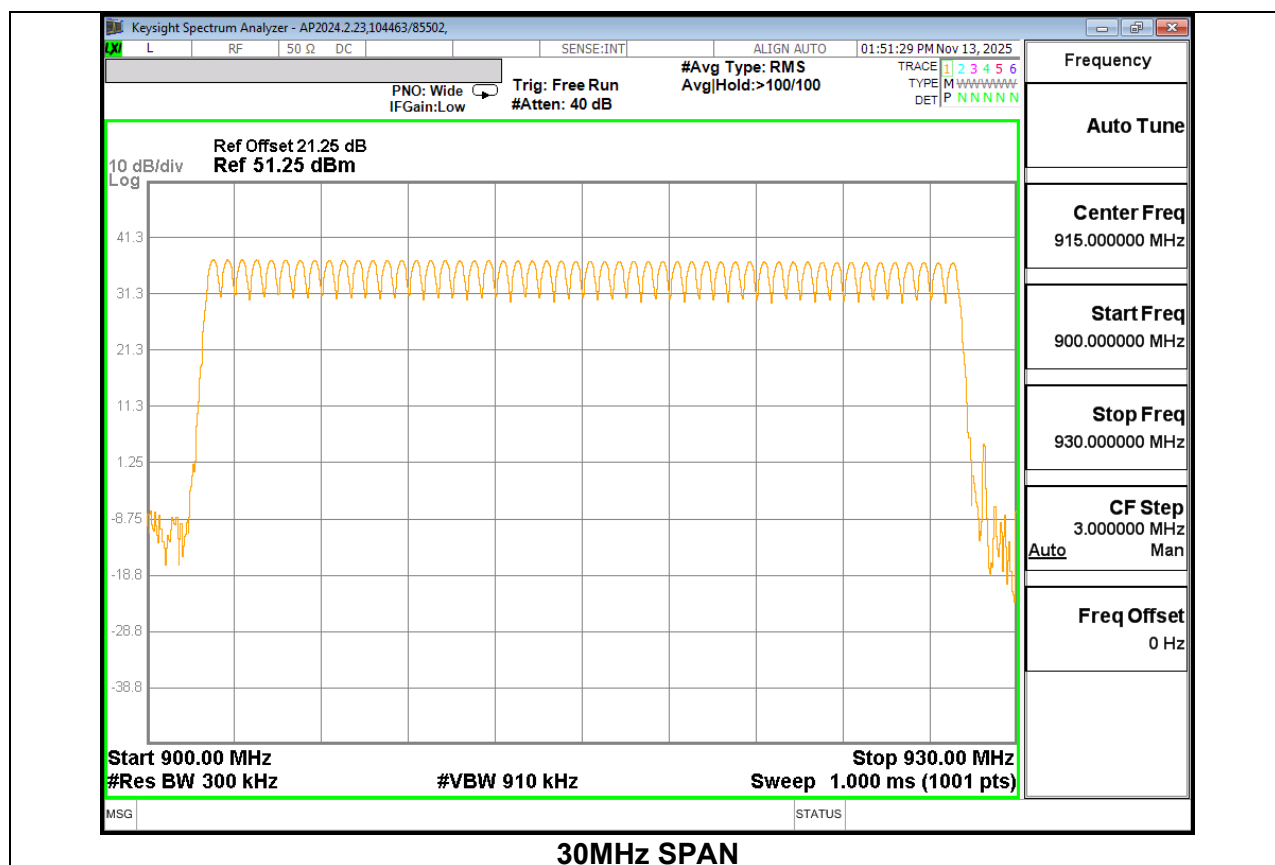
For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

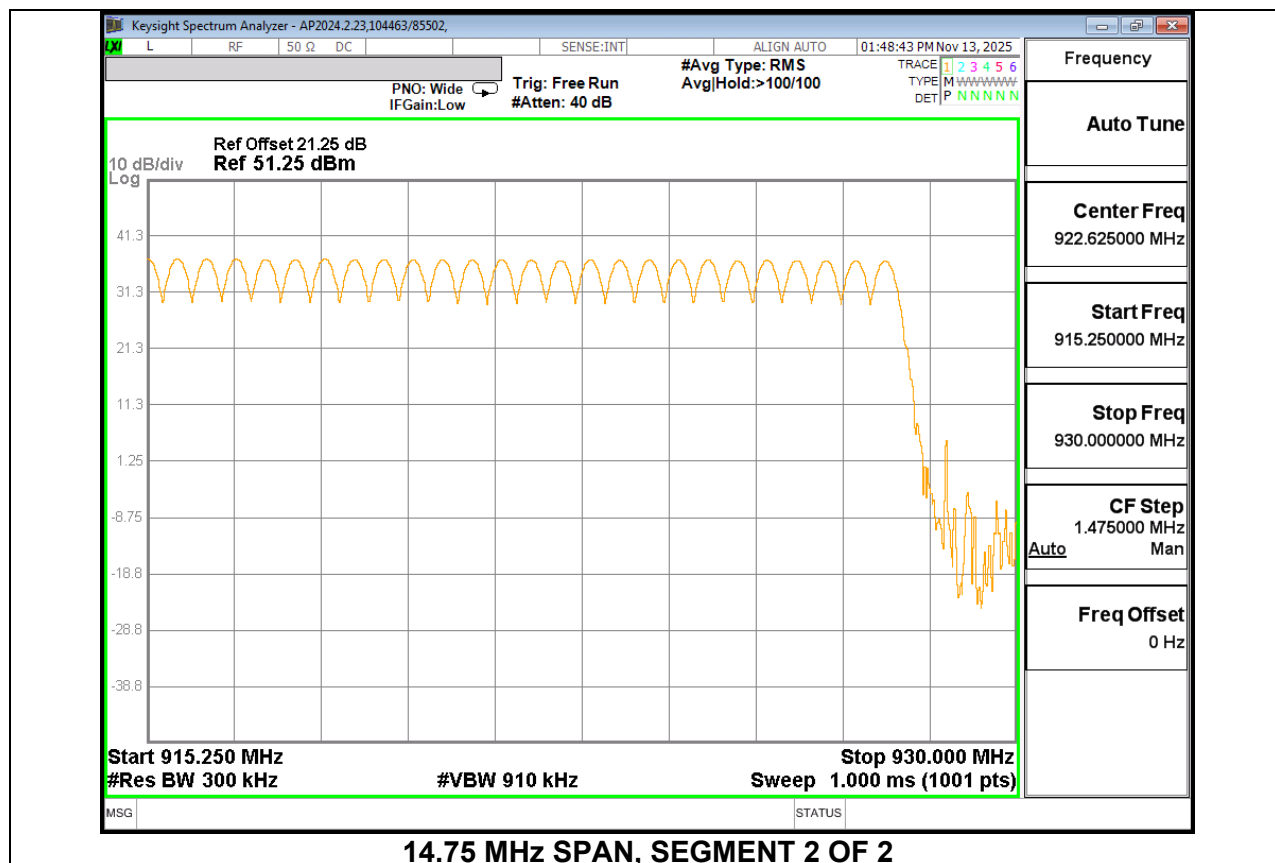
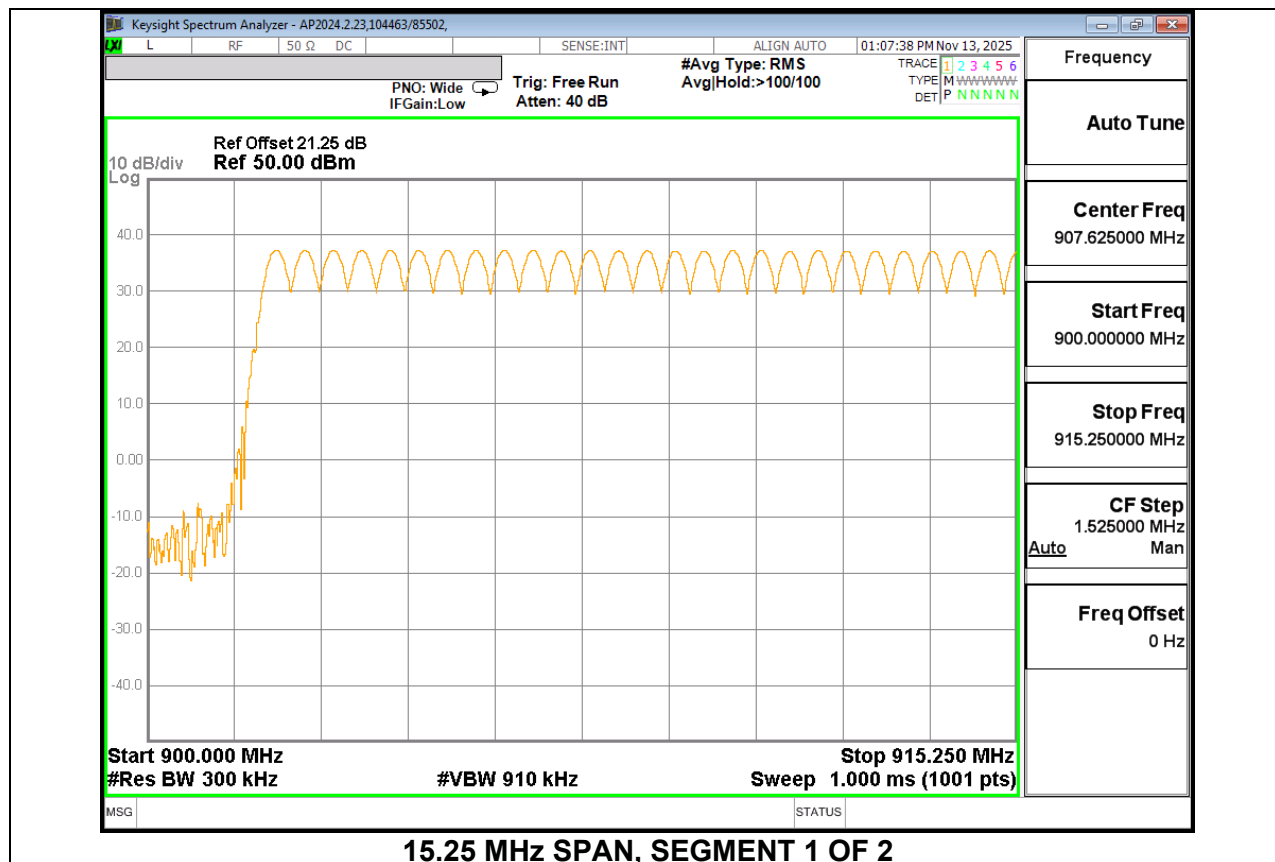
TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The span is set to cover the entire authorized band, in either a single sweep or in multiple contiguous sweeps. The RBW is set to a maximum of 1 % of the span. The analyzer is set to Max Hold.

RESULTS

Normal Mode: 52 Channels Observed





9.5. AVERAGE TIME OF OCCUPANCY

LIMITS

FCC §15.247 (a) (1) (i)
RSS-247 (6.2.2.1) (c)

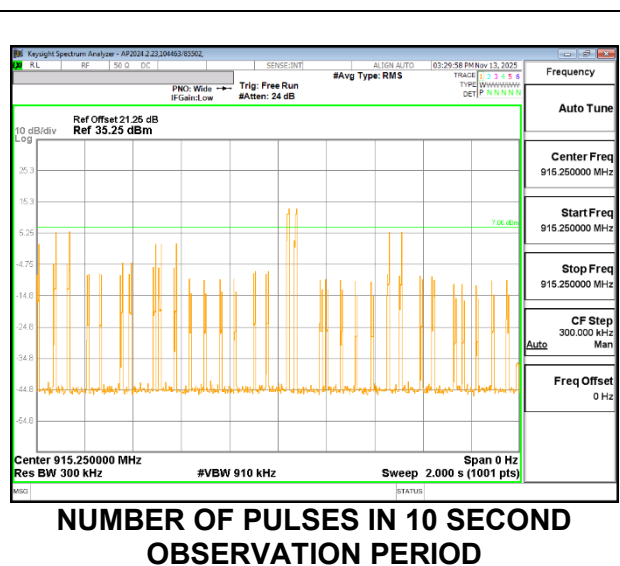
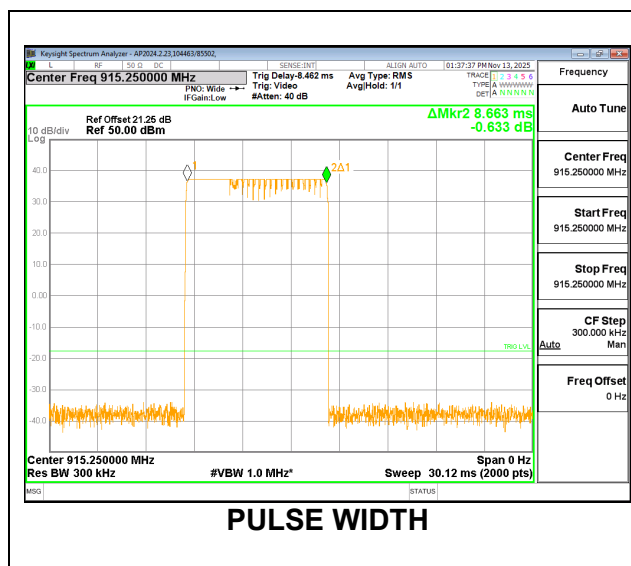
The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The span is set to 0 Hz, centered on a single, selected hopping channel. The width of a single pulse is measured in a fast scan. The number of pulses is measured in a 10-second scan.

RESULTS

Pulse Width (msec)	Number of Pulses in 10 seconds	Average Time of Occupancy (sec)	Limit (sec)	Margin (sec)
8.663	10	0.0866	0.4	-0.3134



9.6. OUTPUT POWER

LIMITS

§15.247 (b) (2)
RSS-247 (6.2.2.2) (a)

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11.46 dB (including 10.08 dB pad and 1.46 dB cable) was entered as an offset in the power meter.

The power output was measured on the EUT antenna port using an SMA cable and attenuator connected to a power meter via a wideband power sensor. Peak output power was read directly from power meter.

RESULTS

Tested By:	33499/84740
Date:	2025-11-05

Channel	Frequency (MHz)	Output Power (dBm)	Limit (dBm)	Margin (dB)
Low	902.4	19.39	30	-10.61
Middle	915.2	18.77	30	-11.23
High	927.6	19.16	30	-10.84

9.7. AVERAGE POWER

LIMITS

None; for reporting purposes only

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11.46 dB (including 10.08 dB pad and 1.46 dB cable) was entered as an offset in the power meter.

The power output was measured on the EUT antenna port using SMA cable with 10dB attenuator connected to a power meter via wideband power sensor. Gated average output power was read directly from power meter.

RESULTS

Tested By:	33499/84740
Date	2025-11-05

Channel	Frequency (MHz)	Average Power (dBm)
Low	902.4	18.62
Middle	915.2	18.42
High	927.6	18.23

9.8. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)
RSS-247 6.6

Limit = -20 dBc

TEST PROCEDURE

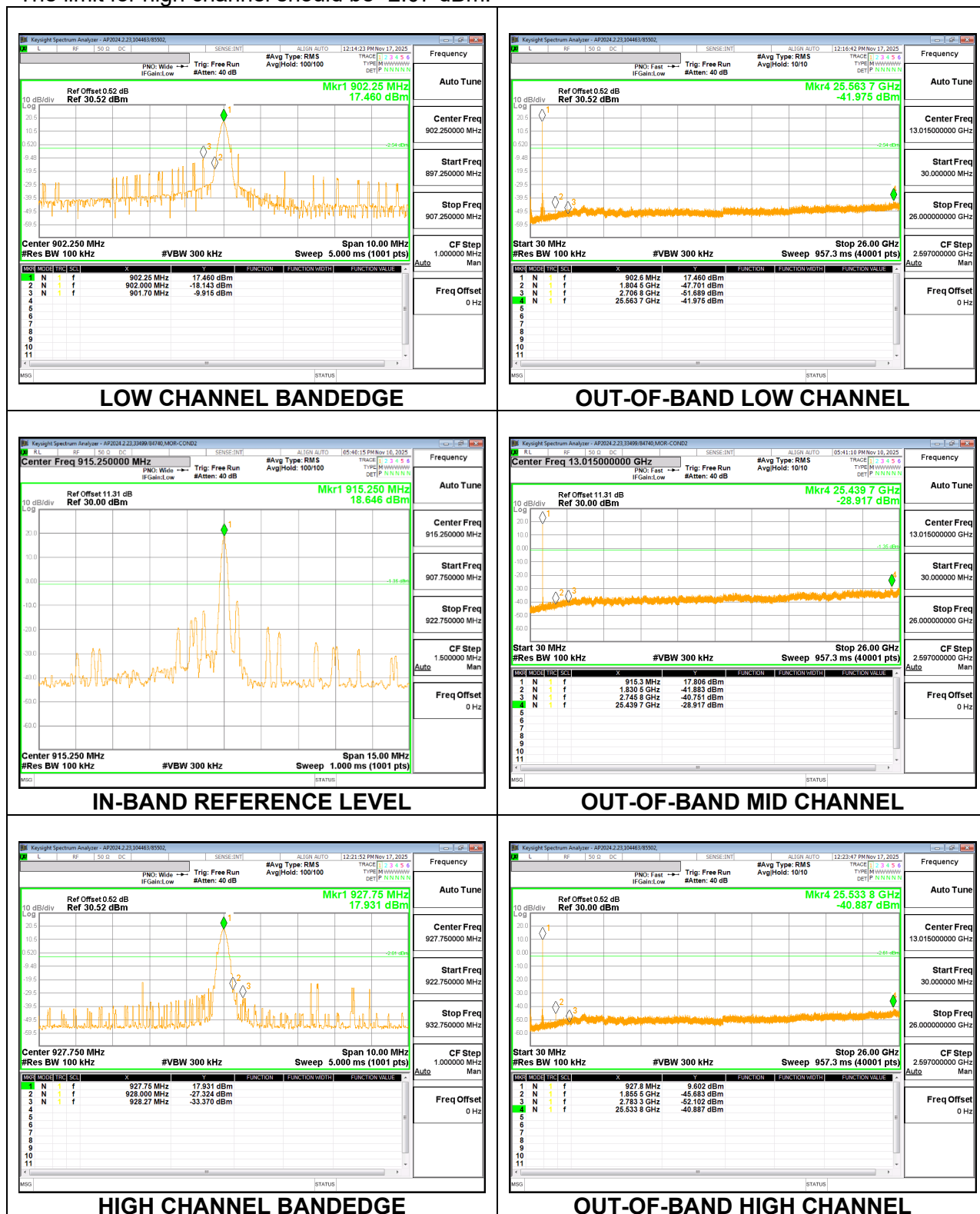
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

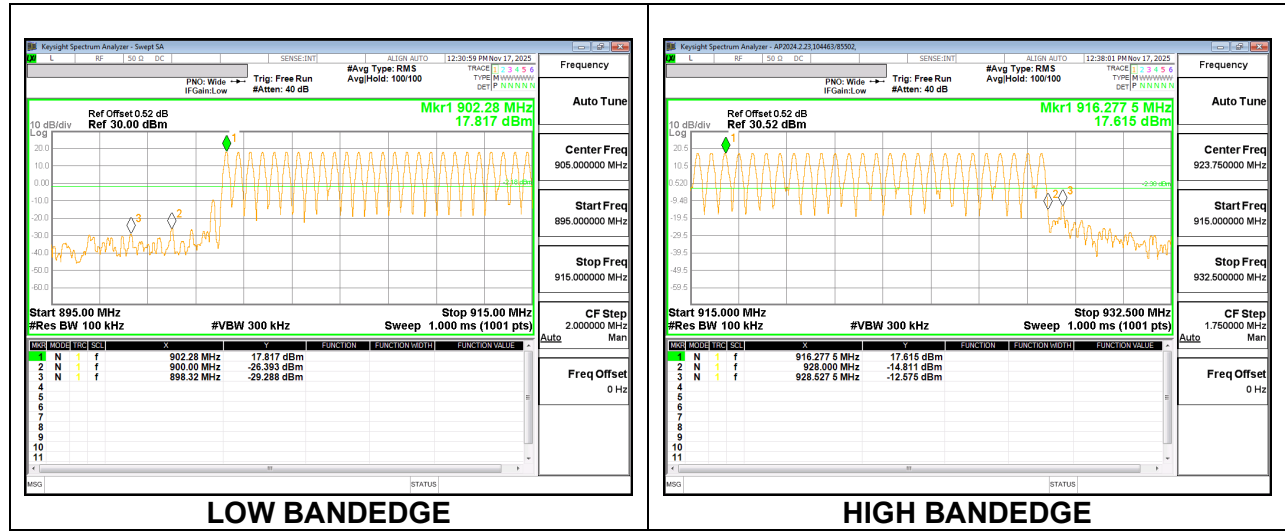
RESULTS

SPURIOUS EMISSIONS, NON-HOPPING

The limit for high channel should be -2.07 dBm.



SPURIOUS BANDEDGE EMISSIONS WITH HOPPING ON



10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

IC RSS-GEN Clause 8.9 and 8.10

Frequency Range (kHz)	Field Strength Limit (uA/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	6.37/F(kHz) @ 300 m	-
0.490-1.705	63.7/F(kHz) @ 30 m	-
1.705 - 30	0.08 @ 30m	-
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak or average (9-90kHz and 110-490kHz).

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3MHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements. Average measurements are calculated based on VBW = 1/Ton.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site (OFS) and Chamber Correlation Justification

OFS and chamber correlation testing had been performed and chamber measured test result is the worst-case test result.

KDB 558074 D01 15.247 Meas Guidance v05r02

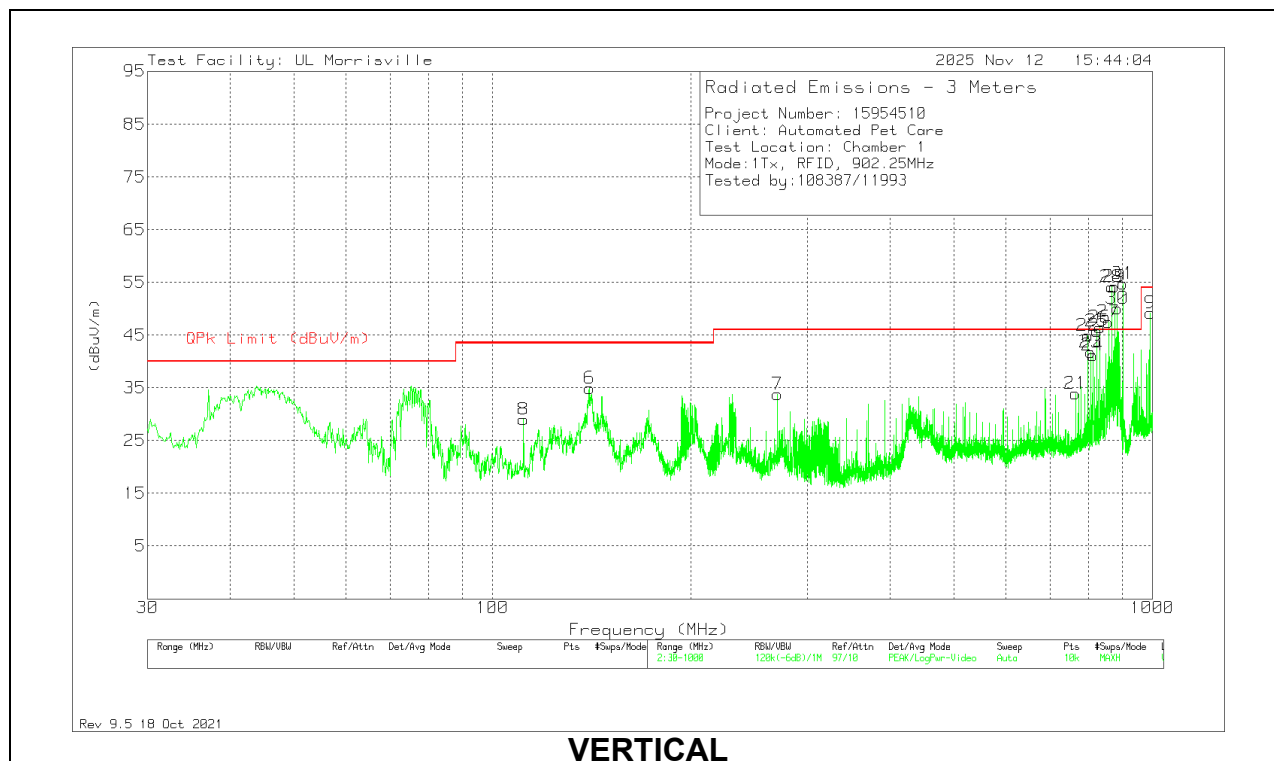
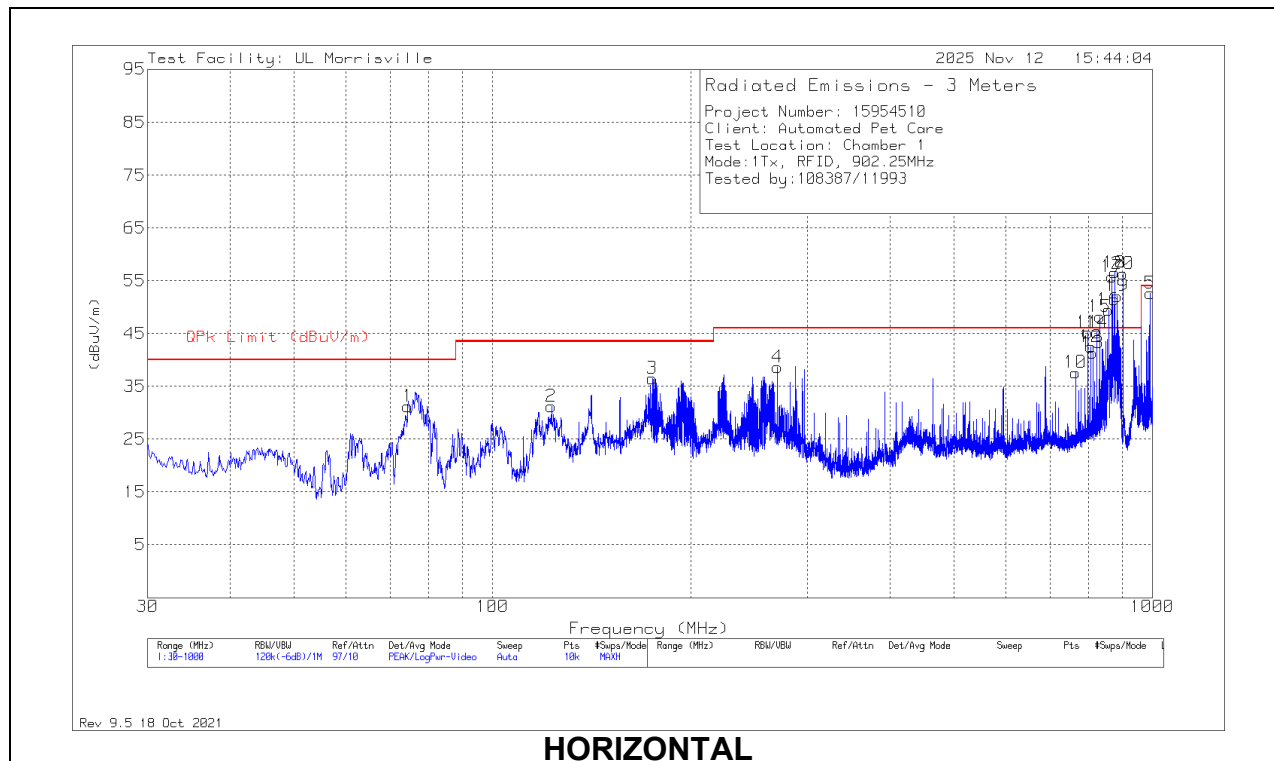
Use of a duty cycle correction factor (DCCF) is permitted for calculating average radiated field strength emission levels for an FHSS device in 15.247. This DCCF can be applied when the field strength limit (e.g., within a Government Restricted band) and the conditions specified in Section 15.35(c) can be satisfied. The average radiated field strength is calculated by subtracting the DCCF from the maximum radiated field strength level as determined through measurement. The maximum radiated field strength level represents the worst-case (maximum amplitude) RMS measurement of the emission(s) during continuous transmission (i.e., not including any time intervals during which the transmitter is off or is transmitting at a reduced power level). It is also acceptable to apply the DCCF to a measurement performed with a peak detector instead of the specified RMS power averaging detector.

Note that Section 15.35(c) specifies that the DCCF shall represent the worst case (greatest duty cycle) over any 100 msec transmission period.

10.1. TRANSMITTER 30 MHz – 18GHz

HARMONICS AND SPURIOUS EMISSIONS (30 – 1000 MHz)

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 74.426	47.74	Pk	14.4	-31.1	.2	31.24	40	-8.76	0-360	300	H
2	*** 122.829	42.12	Pk	20	-31	.1	31.22	43.52	-12.3	0-360	200	H
4	*** 270.366	48.99	Pk	19.3	-30.1	.4	38.59	46.02	-7.43	0-360	100	H
5	*** 992.5298	45.16	Qp	29.6	-25.5	.8	50.06	53.97	-3.91	56	142	H
10	** 764.581	37.96	Pk	27.1	-28	.5	37.56	-	-	0-360	200	H
11	** 798.24	44.25	Pk	27.6	-27.4	.7	45.15	-	-	0-360	200	H
15	** 832.093	47.02	Pk	27.9	-27.3	.6	48.22	-	-	0-360	200	H
16	** 858.0405	48.14	Pk	28.1	-27.5	.7	49.44	-	-	0-360	100	H
17	** 868.371	53.77	Pk	28.1	-26.9	.8	55.77	-	-	0-360	100	H
18	** 876.325	54.33	Pk	28.1	-26.8	.9	56.53	-	-	0-360	100	H
19	** 884.085	49.49	Pk	28.2	-26.7	1.1	52.09	-	-	0-360	100	H
20	** 902.321	53.01	Pk	28.3	-26.7	1.7	56.31	-	-	0-360	100	H
7	*** 270.366	44.16	Pk	19.3	-30.1	.4	33.76	46.02	-12.26	0-360	100	V
8	*** 111.383	40.48	Pk	19	-30.8	.3	28.98	43.52	-14.54	0-360	100	V
9	*** 992.5177	41.75	Qp	29.6	-25.5	.8	46.65	53.97	-7.32	65	135	V
21	** 764.581	34.34	Pk	27.1	-28	.5	33.94	-	-	0-360	100	V
22	** 798.24	43.95	Pk	27.6	-27.4	.7	44.85	-	-	0-360	100	V
26	** 832.093	45.21	Pk	27.9	-27.3	.6	46.41	-	-	0-360	100	V
27	** 857.992	46.42	Pk	28	-27.6	.7	47.52	-	-	0-360	100	V
28	** 867.983	52.21	Pk	28.1	-27	.8	54.11	-	-	0-360	100	V
29	** 876.325	51.93	Pk	28.1	-26.8	.9	54.13	-	-	0-360	100	V
30	** 884.085	47.46	Pk	28.2	-26.7	1.1	50.06	-	-	0-360	100	V
31	** 902.321	51.44	Pk	28.3	-26.7	1.7	54.74	-	-	0-360	100	V
6	140.386	45.72	Pk	19.4	-30.3	.1	34.92	-	-	0-360	100	V
3	174.627	48.63	Pk	17.8	-30.2	.3	36.53	-	-	0-360	100	H
12	806	41.61	Pk	27.7	-27.5	.7	42.51	-	-	0-360	200	H
23	806	40.91	Pk	27.7	-27.5	.7	41.81	-	-	0-360	100	V
13	812.014	40.79	Pk	27.8	-27.9	.6	41.29	-	-	0-360	200	H
24	812.208	40.84	Pk	27.8	-28.1	.6	41.14	-	-	0-360	100	V
14	824.333	44.18	Pk	27.9	-27.5	.6	45.18	-	-	0-360	200	H
25	824.333	44.72	Pk	27.9	-27.5	.6	45.72	-	-	0-360	100	V

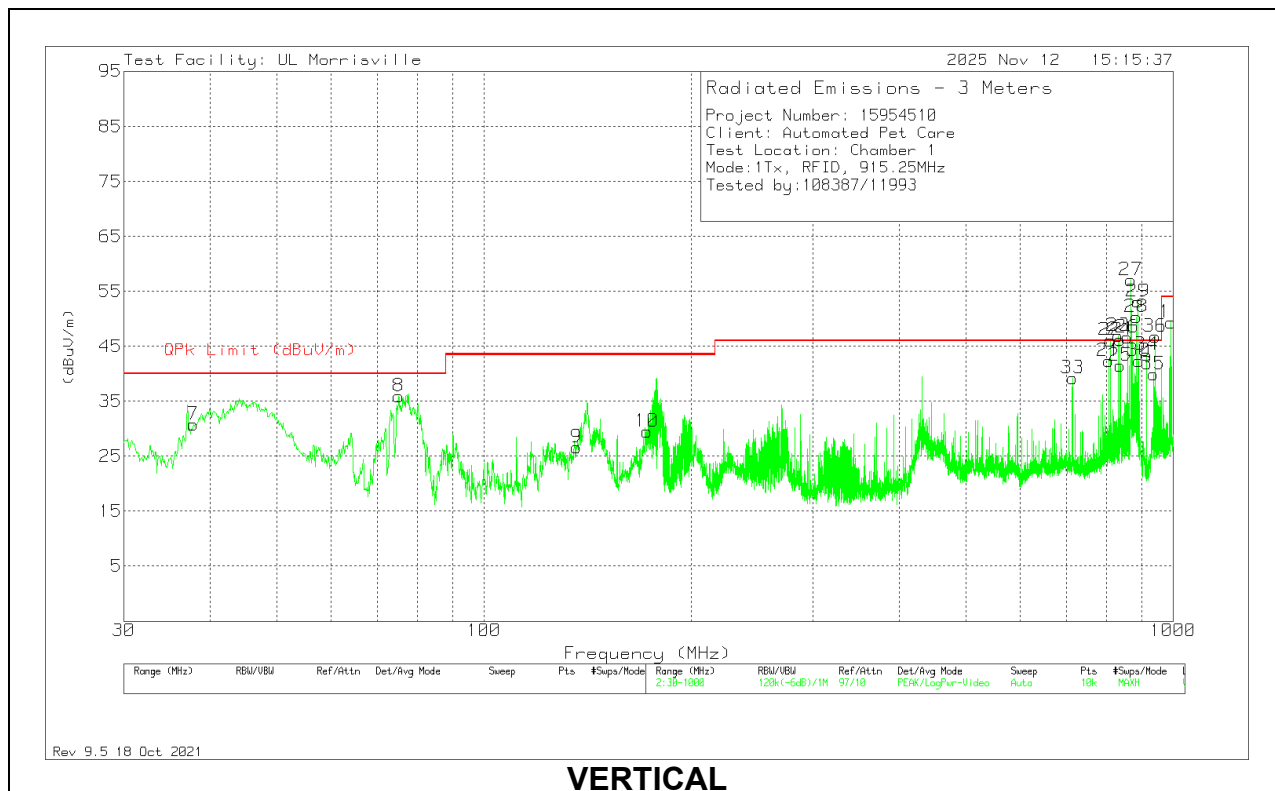
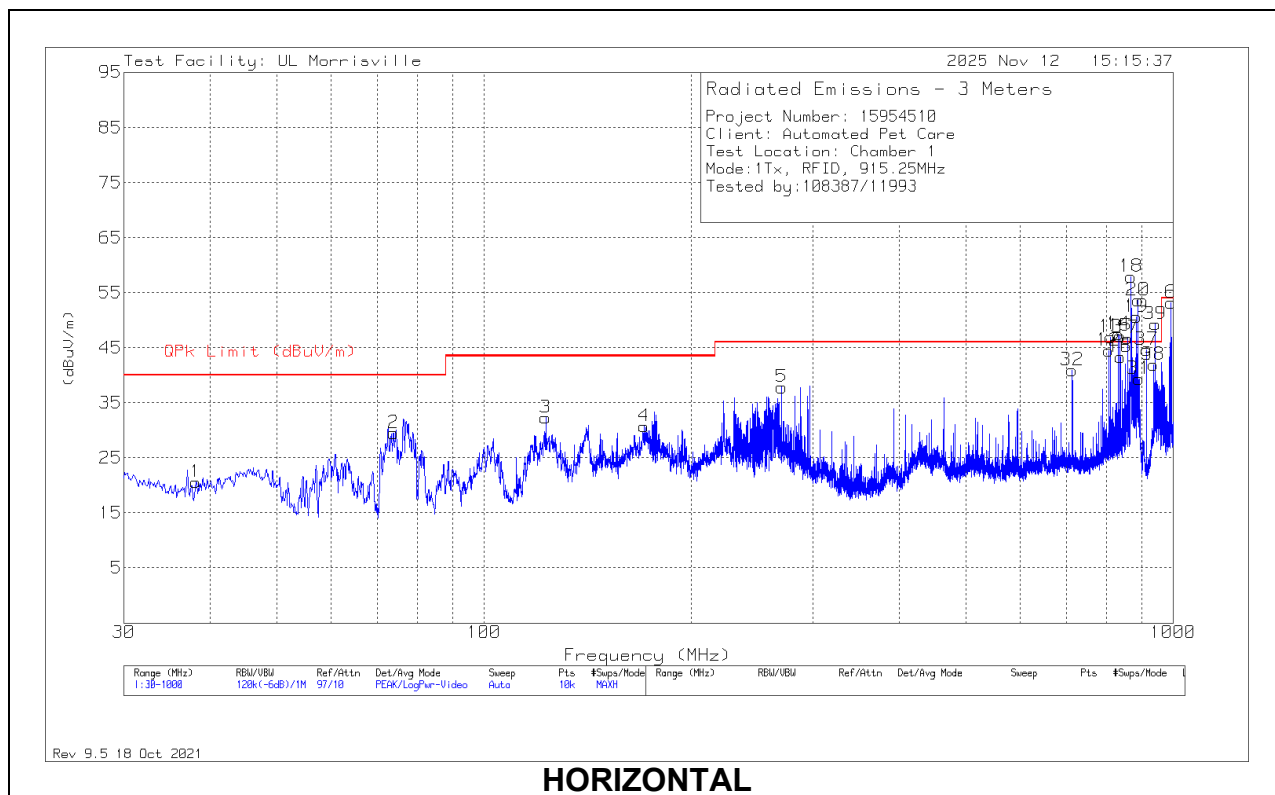
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 38.148	31.07	Pk	21.1	-31.6	20.57	40	-19.43	0-360	200	H
2	*** 73.8925	46.38	Pk	14.5	-31.4	29.48	40	-10.52	0-360	399	H
3	*** 122.829	43.27	Pk	20	-31	32.27	43.52	-11.25	0-360	200	H
4	*** 170.65	42.99	Pk	18	-30.3	30.69	43.52	-12.83	0-360	99	H
5	*** 270.366	48.62	Pk	19.3	-30.1	37.82	46.02	-8.2	0-360	99	H
6	*** 992.5392	46.84	Qp	29.6	-25.5	50.94	53.97	-3.03	49	144	H
14	** 832.093	46.85	Pk	27.9	-27.3	47.45	-	-	0-360	99	H
15	** 837.331	46.6	Pk	27.9	-27.4	47.1	-	-	0-360	99	H
16	** 838.204	42.58	Pk	27.9	-27.2	43.28	-	-	0-360	99	H
17	** 857.992	46.3	Pk	28	-27.6	46.7	-	-	0-360	99	H
18	** 868.565	56.75	Pk	28.1	-27	57.85	-	-	0-360	99	H
19	** 884.085	49.09	Pk	28.2	-26.7	50.59	-	-	0-360	99	H
20	** 889.323	52.82	Pk	28.2	-27.4	53.62	-	-	0-360	99	H
31	** 892.039	38.36	Pk	28.2	-27.2	39.36	-	-	0-360	99	H
32	** 713.753	42.3	Pk	26.6	-28	40.9	-	-	0-360	99	H
39	** 941.412	46.85	Pk	28.9	-26.5	49.25	-	-	0-360	99	H
7	*** 37.857	41.41	Pk	21.3	-31.9	30.81	-	-	0-360	100	V
8	** 75.202	52.65	Pk	14.4	-31.1	35.95	-	-	0-360	100	V
9	*** 136.215	37.96	Pk	19.7	-31	26.66	43.52	-16.86	0-360	100	V
10	*** 172.396	42.02	Pk	17.9	-30.4	29.52	43.52	-14	0-360	100	V
11	*** 993.2345	40	Qp	29.6	-25.6	44	53.97	-9.97	32	164	V
23	** 831.996	46.36	Pk	27.9	-27.4	46.86	-	-	0-360	100	V
24	** 837.331	45.67	Pk	27.9	-27.4	46.17	-	-	0-360	100	V
25	** 838.107	40.76	Pk	27.9	-27.2	41.46	-	-	0-360	100	V
26	** 857.992	46.26	Pk	28	-27.6	46.66	-	-	0-360	100	V
27	** 868.371	55.81	Pk	28.1	-26.9	57.01	-	-	0-360	100	V
28	** 884.085	48.84	Pk	28.2	-26.7	50.34	-	-	0-360	100	V
29	** 889.323	52.31	Pk	28.2	-27.4	53.11	-	-	0-360	100	V
30	** 891.457	41.46	Pk	28.2	-27.3	42.36	-	-	0-360	100	V
33	** 714.529	40.57	Pk	26.6	-28	39.17	-	-	0-360	100	V
36	** 941.315	44.38	Pk	28.9	-26.5	46.78	-	-	0-360	100	V
12	806	44.3	Pk	27.7	-27.5	44.5	-	-	0-360	200	H
21	806	42.17	Pk	27.7	-27.5	42.37	-	-	0-360	100	V
13	811.335	46.51	Pk	27.8	-27.4	46.91	-	-	0-360	200	H
22	811.335	45.7	Pk	27.8	-27.4	46.1	-	-	0-360	100	V
37	915.319	42.61	Pk	28.5	-26.5	44.61	-	-	0-360	399	H
34	915.319	41.45	Pk	28.5	-26.5	43.45	-	-	0-360	100	V
38	936.077	39.29	Pk	28.8	-26.2	41.89	-	-	0-360	99	H
35	936.077	37.28	Pk	28.8	-26.2	39.88	-	-	0-360	100	V

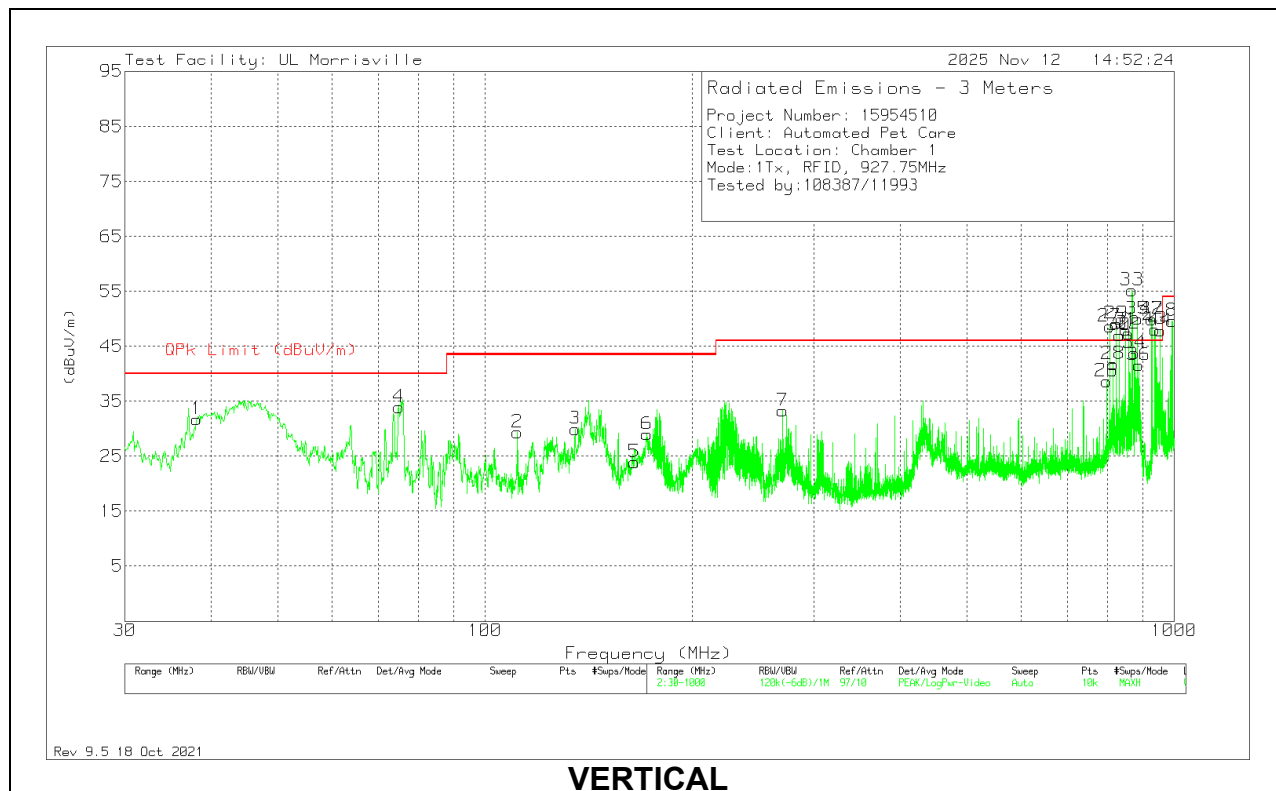
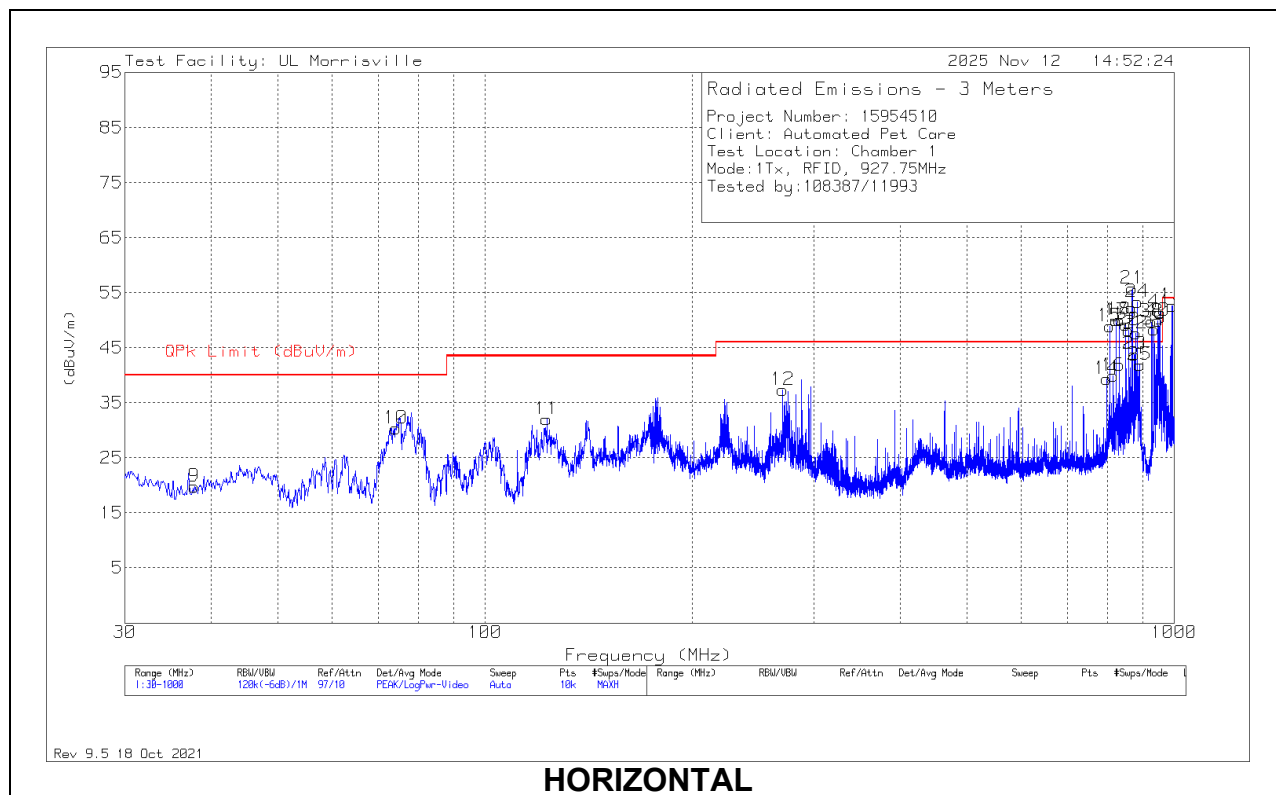
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9	*** 37.857	30.37	Pk	21.3	-31.9	19.77	40	-20.23	0-360	200	H
10	*** 74.232	47.13	Pk	14.4	-31.2	30.33	40	-9.67	0-360	399	H
11	*** 122.829	42.98	Pk	20	-31	31.98	43.52	-11.54	0-360	200	H
12	*** 270.366	48.09	Pk	19.3	-30.1	37.29	46.02	-8.73	0-360	300	H
13	*** 993.2315	46.63	Qp	29.6	-25.6	50.63	53.97	-3.34	0	133	H
14	** 797.755	39.69	Pk	27.6	-28	39.29	-	-	0-360	200	H
18	** 832.093	49.49	Pk	27.9	-27.3	50.09	-	-	0-360	200	H
19	** 849.747	48.94	Pk	27.9	-27.6	49.24	-	-	0-360	100	H
20	** 857.992	47.78	Pk	28	-27.6	48.18	-	-	0-360	100	H
21	** 868.953	54.72	Pk	28.1	-27.1	55.72	-	-	0-360	100	H
22	** 879.429	46.4	Pk	28.2	-27	47.6	-	-	0-360	100	H
23	** 875.84	42.51	Pk	28.1	-26.8	43.81	-	-	0-360	100	H
24	** 884.085	51.77	Pk	28.2	-26.7	53.27	-	-	0-360	100	H
25	** 891.457	40.94	Pk	28.2	-27.3	41.84	-	-	0-360	100	H
40	** 947.038	47.6	Pk	28.9	-26.6	49.9	-	-	0-360	100	H
41	** 953.828	49.01	Pk	29	-26.6	51.41	-	-	0-360	200	H
1	*** 38.148	42.2	Pk	21.1	-31.6	31.7	40	-8.3	0-360	100	V
2	*** 111.383	41.13	Pk	19	-30.8	29.33	43.52	-14.19	0-360	100	V
3	*** 135.148	40.87	Pk	19.7	-30.6	29.97	43.52	-13.55	0-360	100	V
4	*** 75.008	50.68	Pk	14.4	-31.2	33.88	40	-6.12	0-360	100	V
5	*** 164.636	35.77	Pk	18.4	-30.3	23.87	43.52	-19.65	0-360	100	V
6	*** 171.814	41.38	Pk	18	-30.4	28.98	43.52	-14.54	0-360	100	V
7	*** 270.366	44.06	Pk	19.3	-30.1	33.26	46.02	-12.76	0-360	100	V
8	*** 993.2359	46.5	Qp	29.6	-25.6	50.5	53.97	-3.47	31	160	V
26	** 797.755	39.07	Pk	27.6	-28	38.67	-	-	0-360	100	V
30	** 832.093	46.37	Pk	27.9	-27.3	46.97	-	-	0-360	100	V
31	** 849.747	47.67	Pk	27.9	-27.6	47.97	-	-	0-360	100	V
32	** 857.992	46.89	Pk	28	-27.6	47.29	-	-	0-360	100	V
33	** 868.856	54.21	Pk	28.1	-27.1	55.21	-	-	0-360	100	V
34	** 875.84	42.44	Pk	28.1	-26.8	43.74	-	-	0-360	100	V
35	** 884.085	48.47	Pk	28.2	-26.7	49.97	-	-	0-360	100	V
36	** 888.256	40.34	Pk	28.2	-27	41.54	-	-	0-360	100	V
44	** 953.828	45.43	Pk	29	-26.6	47.83	-	-	0-360	100	V
15	806	48.74	Pk	27.7	-27.5	48.94	-	-	0-360	200	H
27	806	48.4	Pk	27.7	-27.5	48.6	-	-	0-360	100	V
28	815.506	41.65	Pk	27.8	-27.7	41.75	-	-	0-360	100	V
16	815.603	39.59	Pk	27.8	-27.5	39.89	-	-	0-360	200	H
17	823.848	49.96	Pk	27.9	-27.9	49.96	-	-	0-360	200	H
29	823.848	49.11	Pk	27.9	-27.9	49.11	-	-	0-360	100	V
38	927.832	47.45	Pk	28.7	-26.4	49.75	-	-	0-360	200	H
37	927.832	47.65	Pk	28.7	-26.4	49.95	-	-	0-360	100	V
42	927.832	47.65	Pk	28.7	-26.4	49.95	-	-	0-360	100	V
39	934.913	45.68	Pk	28.8	-26.2	48.28	-	-	0-360	100	H
43	937.726	45.79	Pk	28.8	-26.5	48.09	-	-	0-360	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

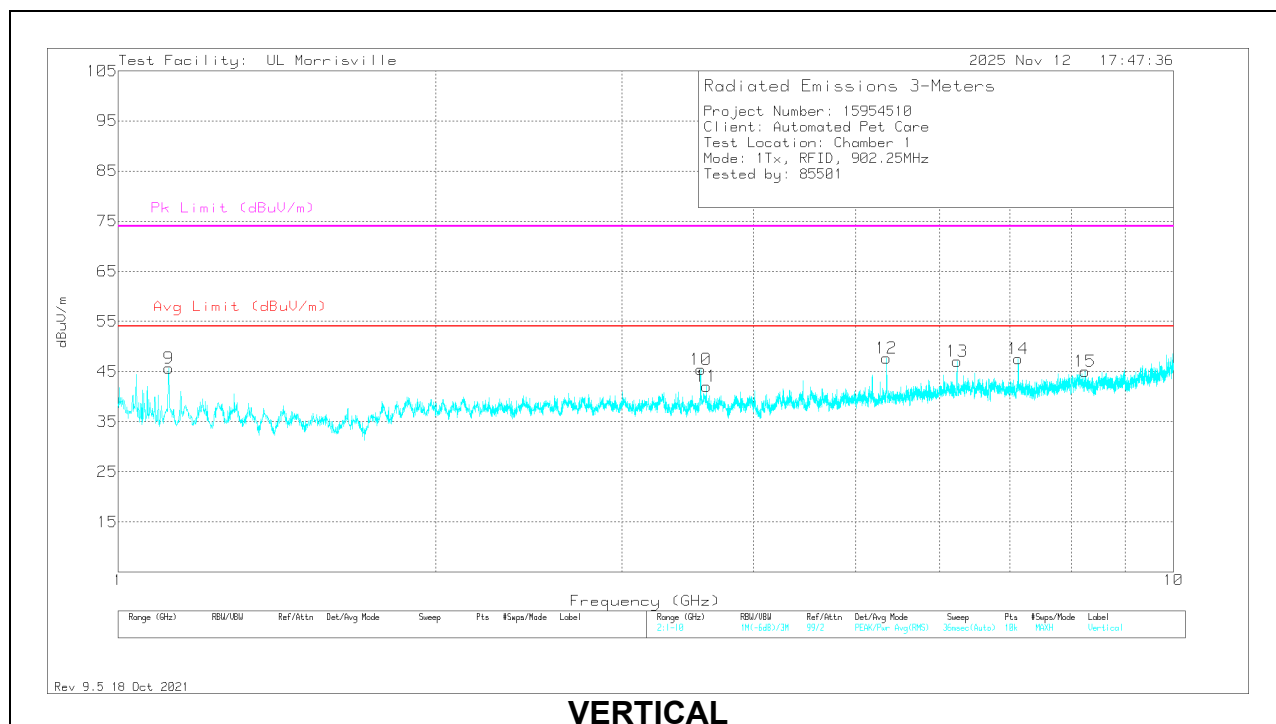
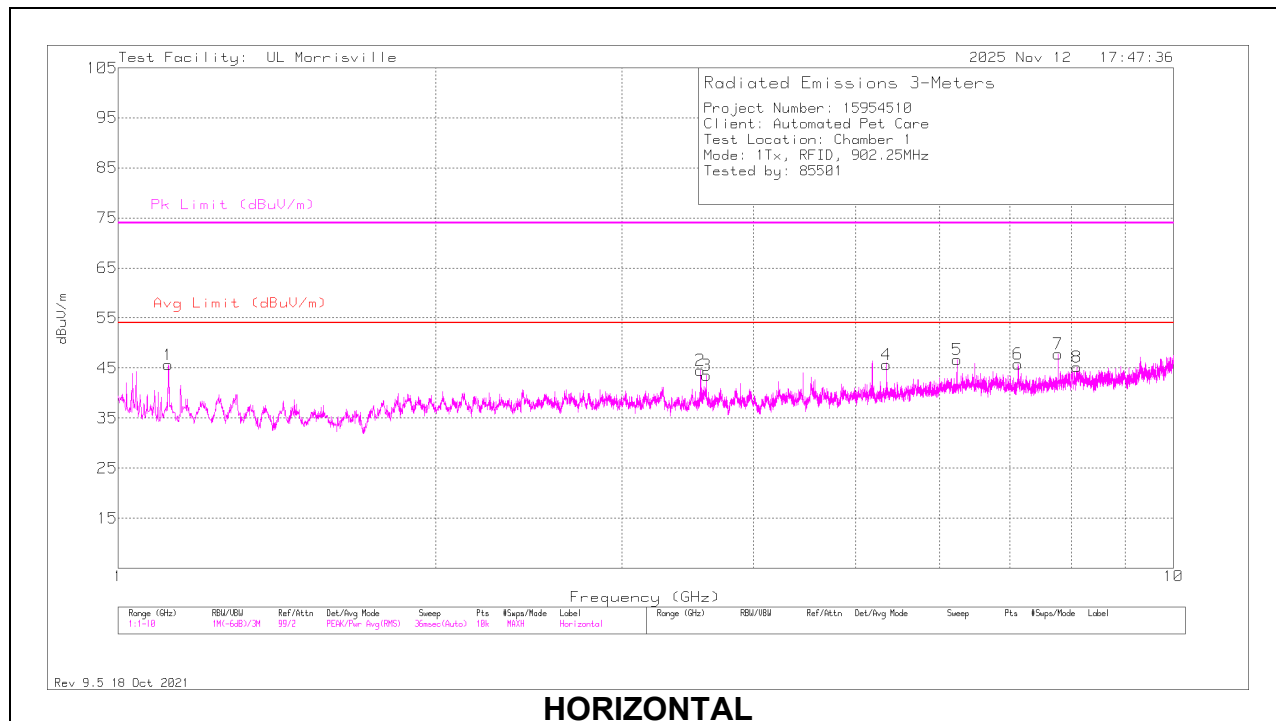
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

Qp - Quasi-Peak detector

HARMONICS AND SPURIOUS EMISSIONS (1-10 GHz)

LOW CHANNEL RESULTS



RADIATED EMISSIONS

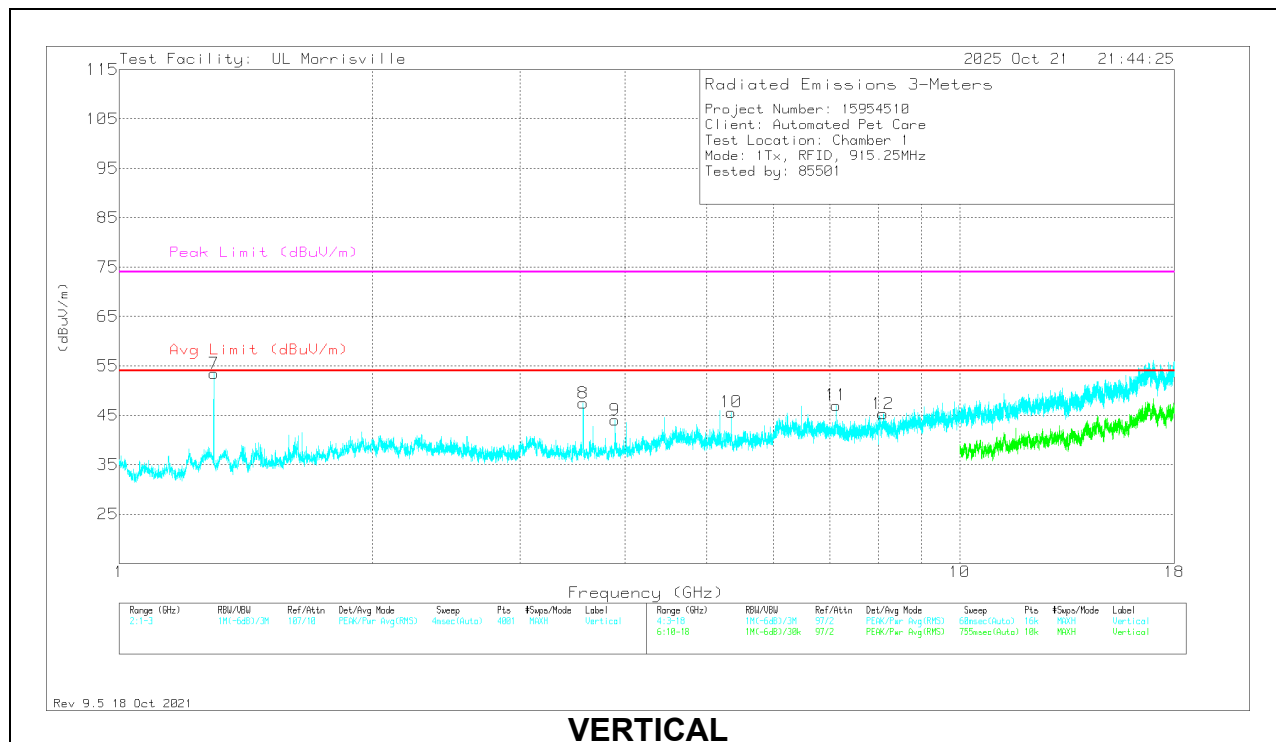
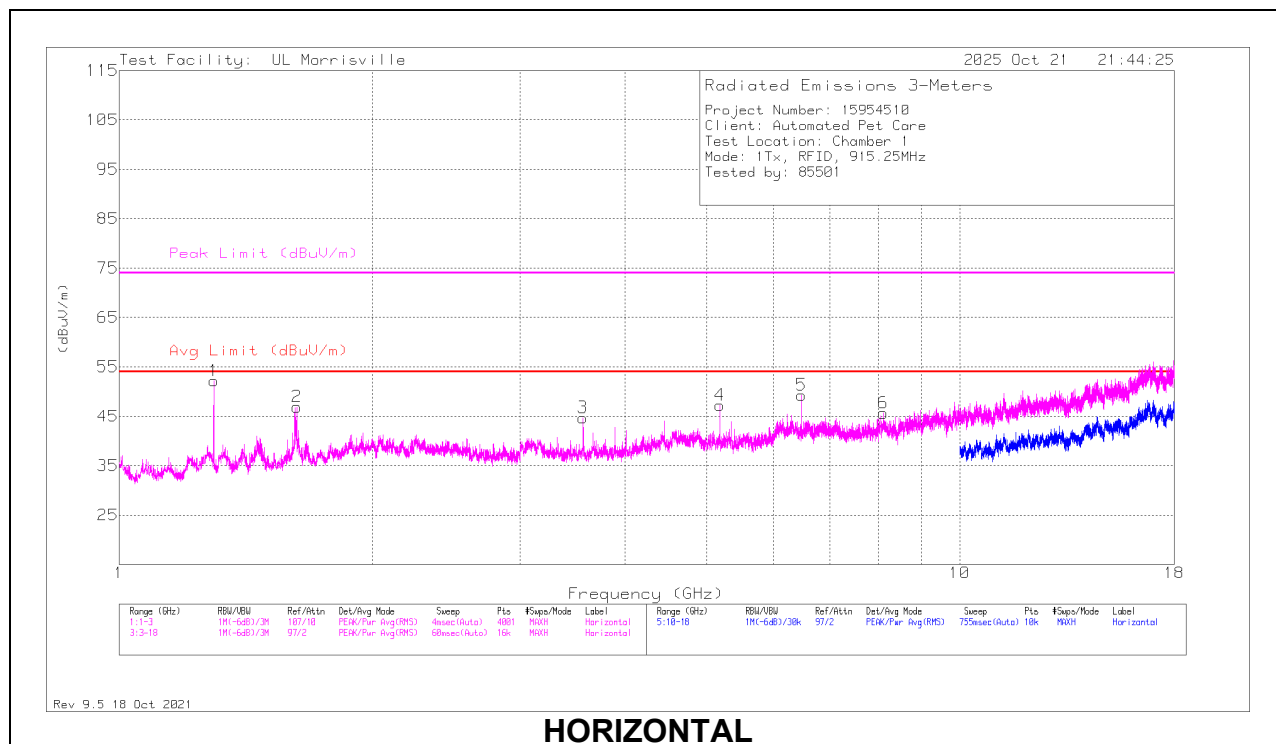
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	135143 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading dBuV/m	Avg Limit (dBuV/m)	Margin (dB)	Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.1152	64.12	Pk	28	-47.3	.8	45.62	54	-8.38	74	-28.38	0-360	101	H
2	* ** 3.5632	55.46	Pk	33	-44.5	.6	44.56	54	-9.44	74	-29.44	0-360	300	H
3	* ** 3.6091	55.86	Pk	33.1	-45.8	.4	43.56	54	-10.44	74	-30.44	0-360	200	H
8	* ** 8.101	50.93	Pk	35.9	-41.9	.3	45.23	54	-8.77	74	-28.77	0-360	300	H
9	* ** 1.1161	64.15	Pk	28	-47.3	.8	45.65	54	-8.35	74	-28.35	0-360	200	V
10	* ** 3.565	56.38	Pk	33	-44.7	.7	45.38	54	-8.62	74	-28.62	0-360	399	V
11	* ** 3.6091	54.38	Pk	33.1	-45.8	.4	42.08	54	-11.92	74	-31.92	0-360	101	V
15	* ** 8.2486	50.82	Pk	35.9	-42.1	.4	45.02	54	-8.98	74	-28.98	0-360	101	V
4	5.3452	55.92	Pk	34.3	-44.7	.2	45.72	-	-	-	-	0-360	200	H
12	5.3452	57.85	Pk	34.3	-44.7	.2	47.65	-	-	-	-	0-360	200	V
5	6.2353	54.85	Pk	35.5	-44	.3	46.65	-	-	-	-	0-360	200	H
13	6.2362	55.22	Pk	35.5	-44	.3	47.02	-	-	-	-	0-360	300	V
6	7.1272	52.76	Pk	35.4	-42.7	.3	45.76	-	-	-	-	0-360	400	H
14	7.1281	54.57	Pk	35.4	-42.7	.3	47.57	-	-	-	-	0-360	101	V
7	7.777	54.35	Pk	35.7	-42.6	.4	47.85	-	-	-	-	0-360	300	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.29601	50.5	PK2	28.9	-24.7	54.7	-	-	74	-19.3	176	174	H
	* 1.29603	49.29	V1TV	28.9	-24.7	53.49	54	-.51	-	-	176	174	H
7	* 1.296	47.94	PK2	28.9	-24.7	52.14	-	-	74	-21.86	8	230	V
	* 1.296	46.49	V1TV	28.9	-24.7	50.69	54	-3.31	-	-	8	230	V
3	* 3.56344	56.62	Pk	33.1	-45	44.72	54	-9.28	74	-29.28	0-360	100	H
6	* 8.10844	51.15	Pk	35.7	-41.2	45.65	54	-8.35	74	-28.35	0-360	100	H
8	* 3.56438	59.47	Pk	33.1	-45.1	47.47	54	-6.53	74	-26.53	0-360	200	V
9	* 3.88781	56.81	Pk	33.4	-46.2	44.01	54	-9.99	74	-29.99	0-360	200	V
12	* 8.10469	50.88	Pk	35.7	-41.3	45.28	54	-8.72	74	-28.72	0-360	100	V
2	1.6275	42.01	Pk	28.3	-23.4	46.91	-	-	-	-	0-360	199	H
4	5.18344	57.64	Pk	34.1	-44.5	47.24	-	-	-	-	0-360	100	H
10	5.34563	55.12	Pk	34.4	-43.9	45.62	-	-	-	-	0-360	200	V
5	6.48	57.58	Pk	35.5	-43.8	49.28	-	-	-	-	0-360	100	H
11	7.12688	53.12	Pk	35.6	-41.7	47.02	-	-	-	-	0-360	200	V

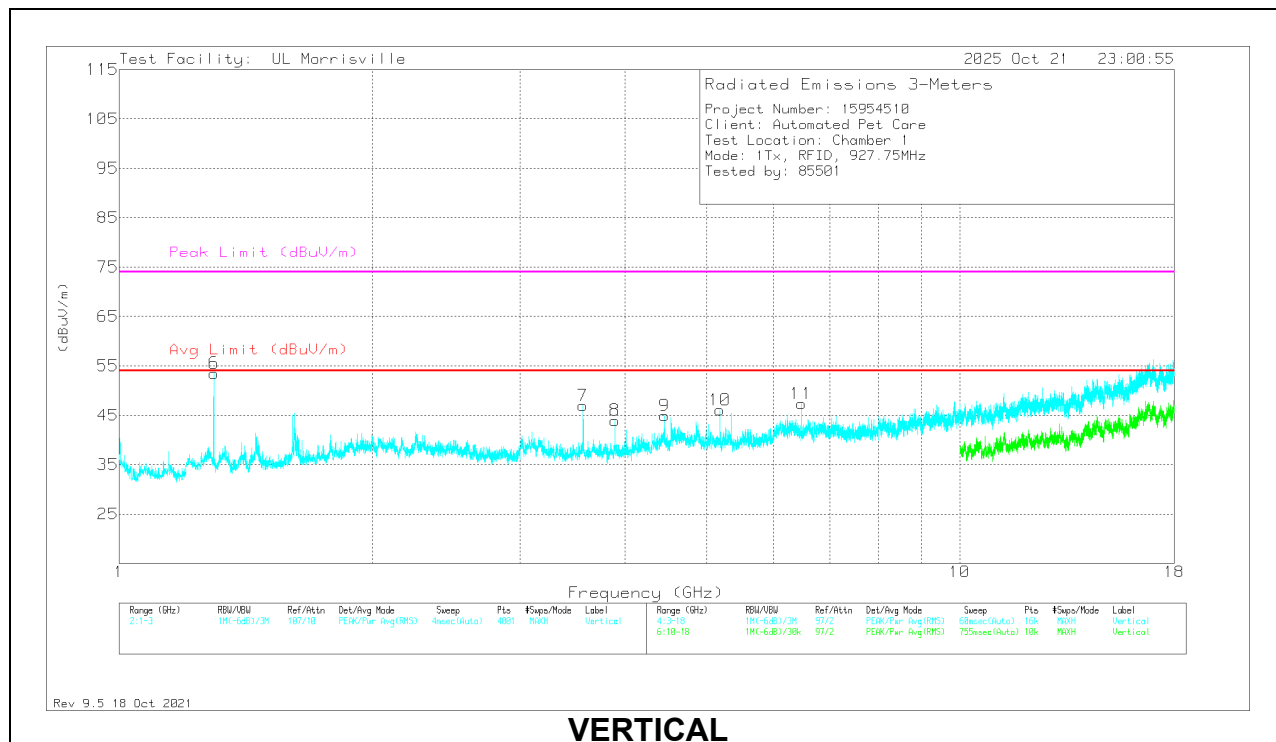
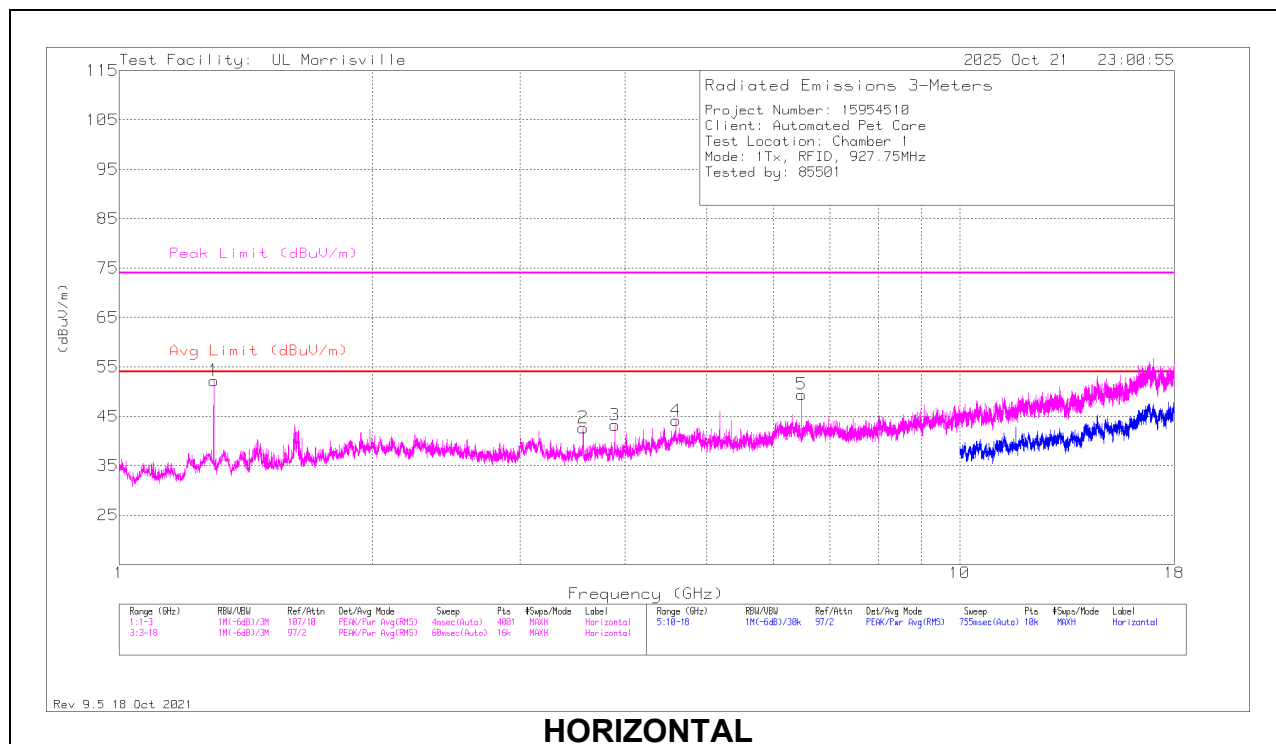
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

PK2 - Maximum Peak

V1TV - $VB=1/Ton$, Linear Voltage Average where: Ton is packet duration

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	88761 (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.29605	50.85	PK2	28.9	-24.7	55.05	-	-	74	-18.95	168	184	H
	* 1.29599	49.38	V1TV	28.9	-24.7	53.58	54	-.42	-	-	168	184	H
6	* 1.29601	50.43	PK2	28.9	-24.7	54.63	-	-	74	-19.37	5	196	V
	* 1.29599	48.93	V1TV	28.9	-24.7	53.13	54	-.87	-	-	5	196	V
2	* 3.56438	54.68	Pk	33.1	-45.1	42.68	54	-11.32	74	-31.32	0-360	199	H
3	* 3.88781	56.03	Pk	33.4	-46.2	43.23	54	-10.77	74	-30.77	0-360	100	H
4	* 4.5975	55.45	Pk	34	-45.3	44.15	54	-9.85	74	-29.85	0-360	100	H
7	* 3.5625	58.76	Pk	33.1	-44.9	46.96	54	-7.04	74	-27.04	0-360	200	V
8	* 3.88781	56.74	Pk	33.4	-46.2	43.94	54	-10.06	74	-30.06	0-360	200	V
9	4.45406	56.62	Pk	33.7	-45.4	44.92	-	-	-	-	0-360	200	V
10	5.18344	56.47	Pk	34.1	-44.5	46.07	-	-	-	-	0-360	200	V
5	6.48	57.74	Pk	35.5	-43.8	49.44	-	-	-	-	0-360	100	H
11	6.48	55.65	Pk	35.5	-43.8	47.35	-	-	-	-	0-360	200	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

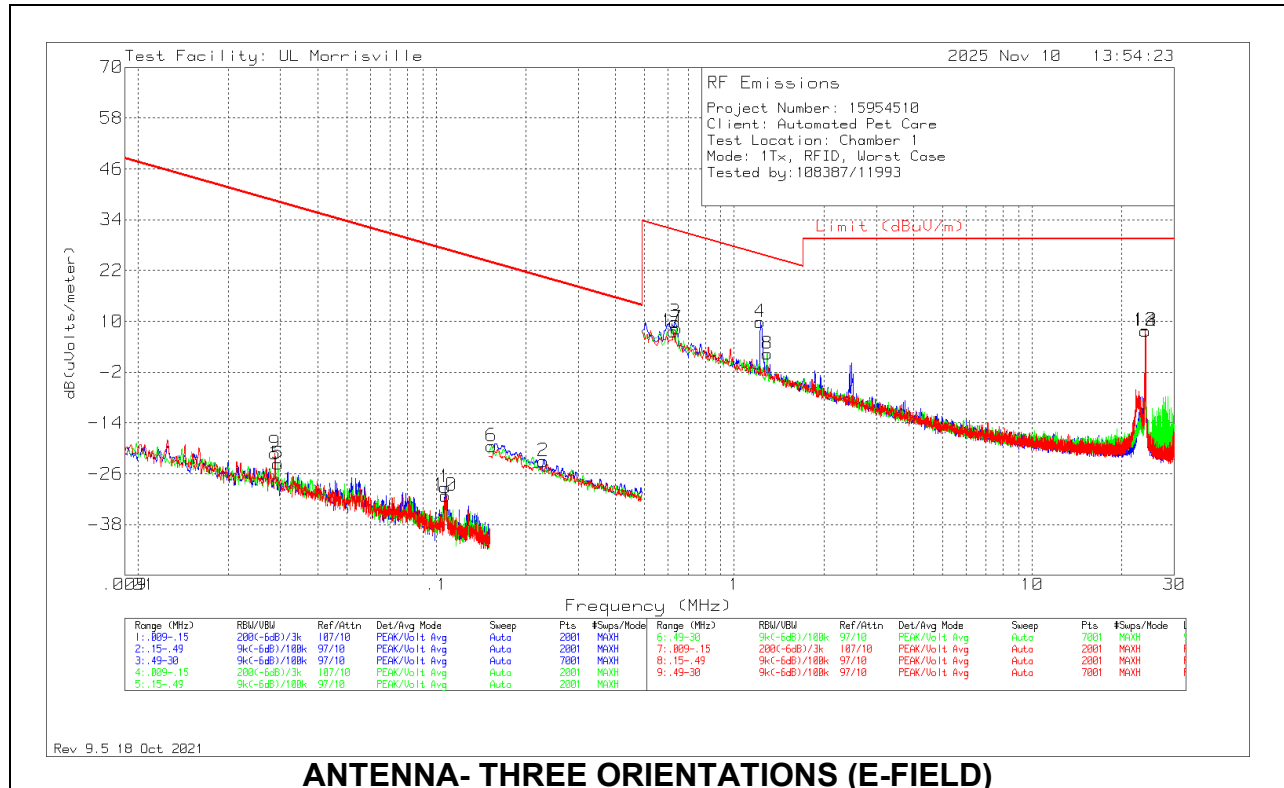
PK2 - Maximum Peak

V1TV - VB=1/Ton, Linear Voltage Average where: Ton is packet duration

10.2. WORST CASE BELOW 30MHZ

Note: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION E-FIELD)



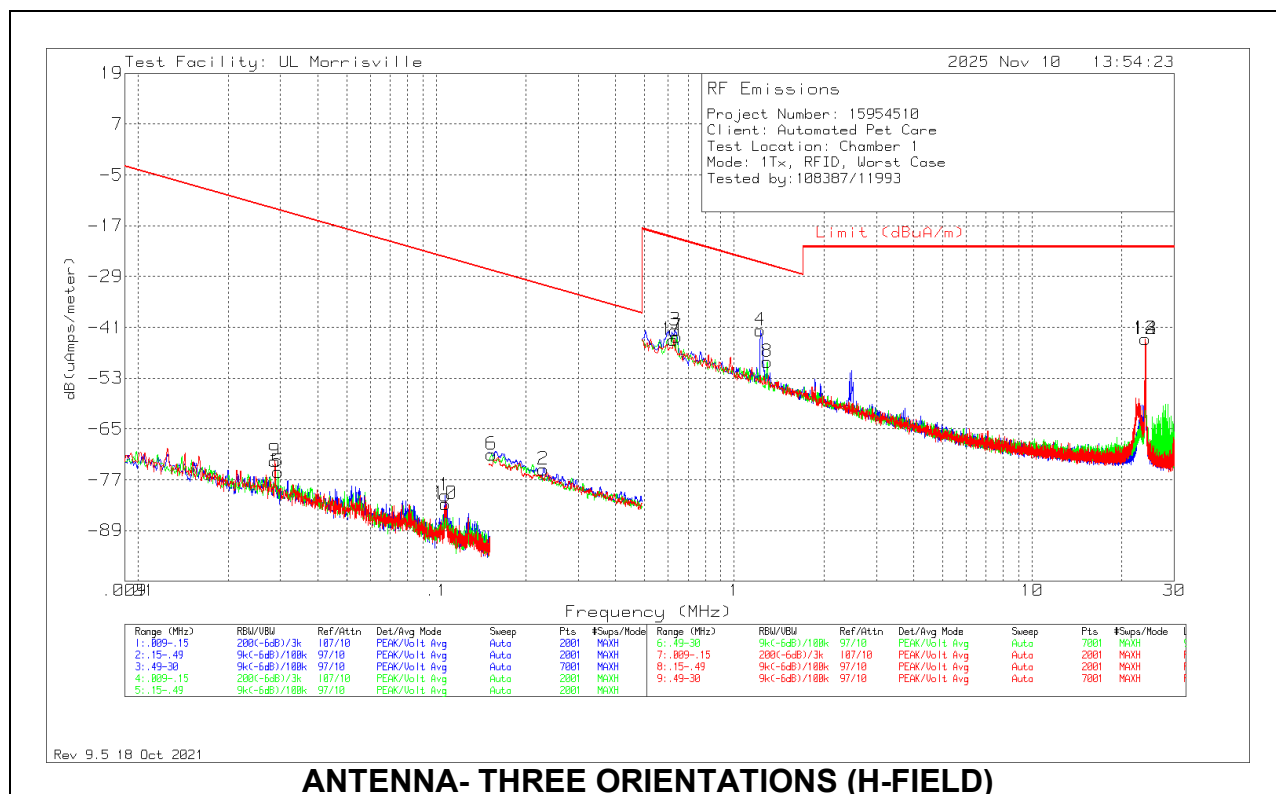
ANTENNA- THREE ORIENTATIONS (E-FIELD)

Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AV Limit (dBuV/m)	PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
9	.02874	45.71	Pk	13.2	0	-80	-21.09	38.44	58.44	-59.53	0-360	Flat
5	.02938	43.16	Pk	13.2	0	-80	-23.64	38.24	58.24	-61.88	0-360	90 degs
1	.10705	39.72	Pk	11.1	0	-80	-29.18	27.01	-	-56.19	0-360	0 degs
10	.10741	37.75	Pk	11.1	0	-80	-31.15	26.98	-	-58.13	0-360	Flat
6	.1534	49.55	Pk	11	0	-80	-19.45	23.89	43.89	-43.34	0-360	90 degs
2	.22854	45.99	Pk	10.9	.1	-80	-23.01	20.42	40.42	-43.43	0-360	0 degs
11	.62491	36.49	Pk	11	.1	-40	7.59	31.69	-	-24.1	0-360	Flat
3	.63334	38.77	Pk	11	.1	-40	9.87	31.57	-	-21.7	0-360	0 degs
7	.64178	37.22	Pk	11	.1	-40	8.32	31.46	-	-23.14	0-360	90 degs
4	1.22358	38.76	Pk	11	.1	-40	9.86	25.85	-	-15.99	0-360	0 degs
8	1.29104	31.25	Pk	11	.1	-40	2.35	25.39	-	-23.04	0-360	90 degs
14	23.96469	37.62	Pk	9.5	.6	-40	7.72	29.54	-	-21.82	0-360	Flat
12	23.98577	37.65	Pk	9.5	.6	-40	7.75	29.54	-	-21.79	0-360	0 degs
13	24.00263	37.66	Pk	9.5	.6	-40	7.76	29.54	-	-21.78	0-360	90 degs

Pk - Peak detector

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION H-FIELD)



ANTENNA- THREE ORIENTATIONS (H-FIELD)

Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uAmps/meter)	QP/AV Limit (dBuA/m)	PK Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
9	.02874	45.71	Pk	-38.3	0	-80	-72.59	-13.06	6.94	-59.53	0-360	Flat
5	.02938	43.16	Pk	-38.3	0	-80	-75.14	-13.26	6.74	-61.88	0-360	90 degs
1	.10705	39.72	Pk	-40.4	0	-80	-80.68	-24.49	-	-56.19	0-360	0 degs
10	.10741	37.75	Pk	-40.4	0	-80	-82.65	-24.52	-	-58.13	0-360	Flat
6	.1534	49.55	Pk	-40.5	0	-80	-70.95	-27.61	-7.61	-43.34	0-360	90 degs
2	.22854	45.99	Pk	-40.6	.1	-80	-74.51	-31.08	-11.08	-43.43	0-360	0 degs
11	.62491	36.49	Pk	-40.5	.1	-40	-43.91	-19.81	-	-24.1	0-360	Flat
3	.63334	38.77	Pk	-40.5	.1	-40	-41.63	-19.93	-	-21.7	0-360	0 degs
7	.64178	37.22	Pk	-40.5	.1	-40	-43.18	-20.04	-	-23.14	0-360	90 degs
4	1.22358	38.76	Pk	-40.5	.1	-40	-41.64	-25.65	-	-15.99	0-360	0 degs
8	1.29104	31.25	Pk	-40.5	.1	-40	-49.15	-26.11	-	-23.04	0-360	90 degs
14	23.96469	37.62	Pk	-42	.6	-40	-43.78	-21.96	-	-21.82	0-360	Flat
12	23.98577	37.65	Pk	-42	.6	-40	-43.75	-21.96	-	-21.79	0-360	0 degs
13	24.00263	37.66	Pk	-42	.6	-40	-43.74	-21.96	-	-21.78	0-360	90 degs

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

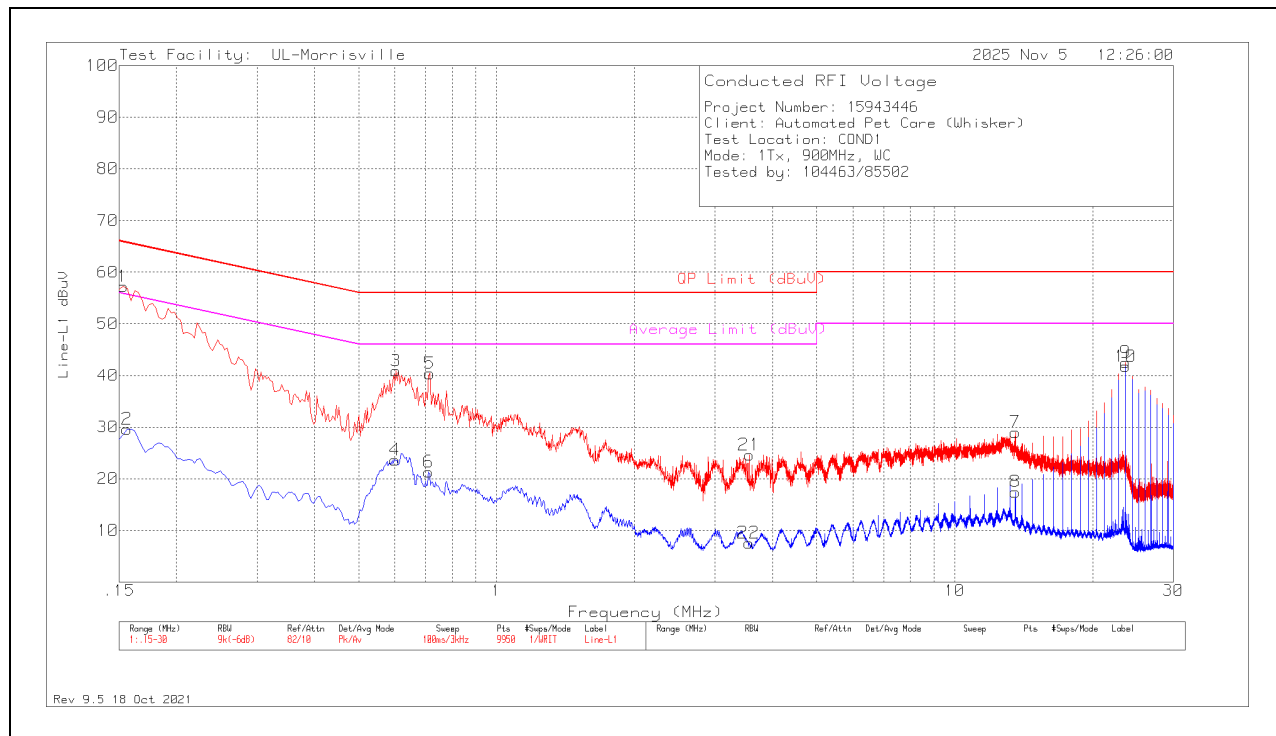
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both lines.

RESULTS

11.1. AC Power Line Norm

LINE 1 RESULTS

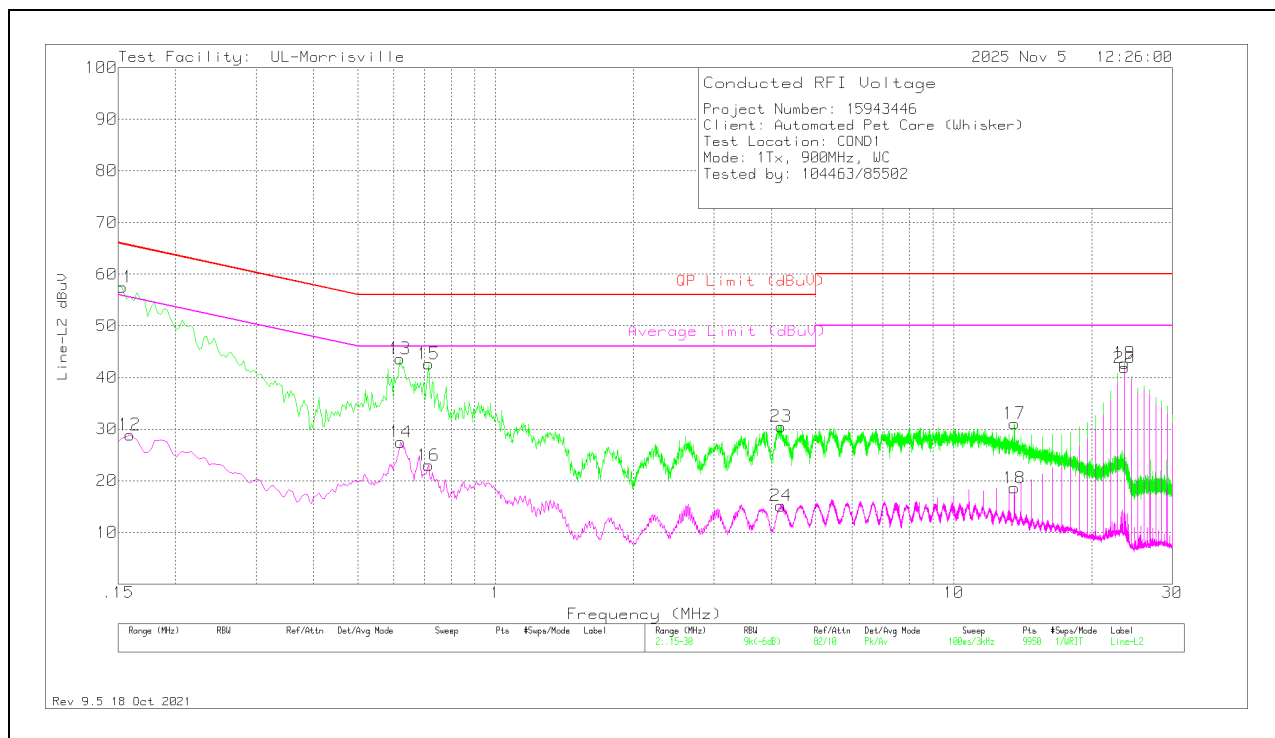


Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.153	47.33	Pk	.2	9.7	57.23	65.84	-8.61	-	-
2	.156	19.72	Av	.2	9.7	29.62	-	-	55.67	-26.05
4	.6	13.92	Av	0	9.7	23.62	-	-	46	-22.38
3	.603	31.21	Pk	0	9.7	40.91	56	-15.09	-	-
6	.711	11.62	Av	0	9.7	21.32	-	-	46	-24.68
5	.714	30.68	Pk	0	9.7	40.38	56	-15.62	-	-
22	3.549	-2.12	Av	0	9.7	7.58	-	-	46	-38.42
21	3.561	14.92	Pk	0	9.7	24.62	56	-31.38	-	-
7	13.56	19.13	Pk	.1	9.8	29.03	60	-30.97	-	-
8	13.56	7.56	Av	.1	9.8	17.46	-	-	50	-32.54
9	23.601	32.51	Pk	.2	9.8	42.51	60	-17.49	-	-
10	23.601	31.74	Av	.2	9.8	41.74	-	-	50	-8.26

Pk - Peak detector

Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VDF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
11	.153	47.58	Pk	.2	9.7	57.48	65.84	-8.36	-	-
12	.159	18.99	Av	.2	9.7	28.89	-	-	55.52	-26.63
13	.618	33.9	Pk	0	9.7	43.6	56	-12.4	-	-
14	.621	17.76	Av	0	9.7	27.46	-	-	46	-18.54
15	.714	32.92	Pk	0	9.7	42.62	56	-13.38	-	-
16	.714	13.29	Av	0	9.7	22.99	-	-	46	-23.01
24	4.194	5.46	Av	0	9.7	15.16	-	-	46	-30.84
23	4.2	20.79	Pk	0	9.7	30.49	56	-25.51	-	-
17	13.56	21.17	Pk	.1	9.8	31.07	60	-28.93	-	-
18	13.56	8.69	Av	.1	9.8	18.59	-	-	50	-31.41
19	23.601	32.78	Pk	.2	9.8	42.78	60	-17.22	-	-
20	23.601	31.88	Av	.2	9.8	41.88	-	-	50	-8.12

Pk - Peak detector

Av - Average detection

SETUP PHOTOS

Please refer to R15954510-EP1 for setup photos

END OF TEST REPORT