

TEST REPORT

Report Number: R16213462-E1

Applicant : Garmin International Inc.
1200 East 151st Street
Olathe, KS 66062-3426, USA

Model : A05420

FCC ID : IPH-05420

IC : 1792A-05420

EUT Description : Extremity Worn Digital Transceiver

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C: 2026
RSS-210 ISSUE 11: 2024
RSS-GEN ISSUE 5 + A1 + A2: 2021

Date Of Issue:
2026-07-01

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2026-06-25	Initial Issue	Manish Baral
V2	2026-07-01	Editorial Revisions	Chandler Stanley

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Garmin International Inc.
1200 East 151st Street
Olathe, KS 66062-3426, USA

EUT DESCRIPTION: Extremity Worn Digital Transceiver

MODEL: A05420

SERIAL NUMBER: 631201031, 631201070

SAMPLE RECEIPT DATE: 2026-04-24

DATE TESTED: 2026-05-13 to 2026-05-29

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C: 2026	
ISED RSS-210 Issue 11: 2024	Refer to Section 3
ISED RSS-GEN Issue 5 + A1 + A2: 2021	

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 tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure 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. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the U.S. government.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with:

- FCC ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024
- ISED ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
- FCC 47 CFR Part 2
- FCC 47 CFR Part 15C
- RSS-GEN Issue 5 + A1 + A2: 2021
- RSS-210 Issue 11: 2024
- KDB 414788 D01 Radiated Test Site v01r01

3. SUMMARY OF TEST RESULTS

Requirement Description	Requirement Clause Number	Result	Remarks
Occupied Bandwidth	FCC §15.215 (c) RSS-Gen 6.7	Compliant	None
Fundamental Measurements.	FCC §15.225 (a-d) FCC §15.209 (d)		
Tx Spurious Emissions	IC RSS-210, Annex B.6 IC RSS-GEN, Section 8.9 (Transmitter)		
Frequency Stability	FCC §15.225 (e) RSS-210, Annex B.6		
AC Mains Line Conducted Emissions	FCC §15.207 IC RSS-GEN, Section 8.8		

4. FACILITIES AND ACCREDITATION

UL LLC is accredited by A2LA, Certificate Number #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. DESCRIPTION OF EUT

The EUT is an extremity worn digital transceiver with BT, BLE, ANT, 2.4GHz WLAN, NFC, and Global Navigation Satellite System (GNSS) receiver. This report covers the full testing of the NFC radio.

6.2. MAXIMUM ELECTRIC FIELD STRENGTH

The transmitter has a maximum peak radiated electric field strength as follows:

Fundamental Frequency (MHz)	E-Field at 30m (dBuV/m)
13.56	12.8

6.3. SOFTWARE AND FIRMWARE

SW Version: 4.16

6.4. WORST-CASE CONFIGURATION AND MODE

The EUT was investigated in three orthogonal orientations: X, Y, and Z. The Y orientation was determined to be the worst-case orientation. Therefore, all final radiated testing was performed with the EUT in the Y orientation.

In addition, Type A, B, and F modes were investigated and it was determined that Type A was worst case; therefore, Type A was selected for all final tests.

In addition, tag not separated, with tag separated, and without a tag were investigated and it was determined that tag on with separation was worst case; therefore, tag on with separation was selected for all final tests.

6.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Power Supply	Phihong	AQ27A-59CFA	NA	NA
Tag	Garmin	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	Proprietary	1	Proprietary	Shielded	<3m	Charges to USB C

SETUP DIAGRAM

Please refer to R16213462-EP1 for setup diagrams

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Conducted Room 1					
90410	Spectrum Analyzer	Keysight Technologies	N9030A	2025-07-10	2026-07-10
76023	Temp/Humid Chamber	Cincinnati Sub-Zero	ZPH-8-3.5-SCT/AC	2026-01-29	2027-01-29
245765	Environmental Meter	Control Company	06-662-4	2026-03-10	2027-03-10
SOFTEMI	Antenna Port Software	UL	Version 2022.8.16	NA	NA
NA	NFC Probe Kit	EMCO	7405	NA	NA

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

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
0.009-30MHz					
65682	Active Loop Antenna	ETS-Lindgren	6502	2025-10-14	2027-10-14
30-1000 MHz					
90629	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2026-03-16	2028-03-16
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
Receiver & Software					
206496	Spectrum Analyzer	Rohde & Schwarz	ESW44	2025-07-29	2026-07-29
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

Note: All equipment was in calibration at the time of tests.

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	2026-05-11	2027-05-11
179892	Environmental Meter	Fisher Scientific	15-077-963	2025-08-05	2026-08-05
80391	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2025-08-01	2026-08-01
75141	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2025-07-30	2026-07-30
52859	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2026-05-11	2027-05-11
PS214	AC Power Source	Elgar	CW2501M	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 (18 Oct 2021)		
84681	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2026-05-11	2027-05-11

Note: All equipment was in calibration at the time of tests.

8. 20dB and 99% BANDWIDTH

LIMITS

§15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

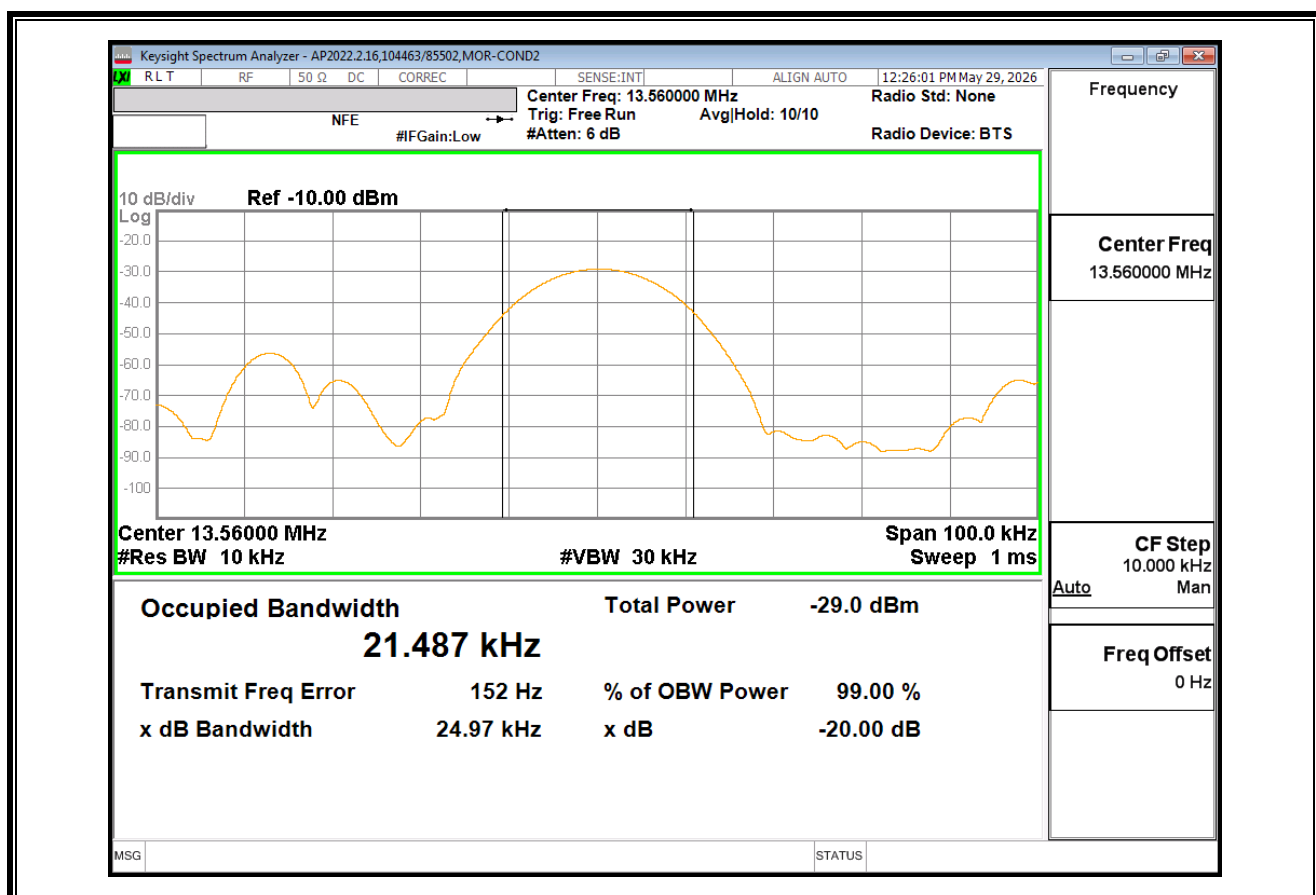
TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1-5% of the 20dB bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW. A minimum RBW of 100Hz is maintained per C63.10 Amendment 1 guidelines for operation in this frequency range.

RESULTS – TAG ON WITH SEPERATION

Frequency (MHz)	20dB Bandwidth (kHz)	99% Bandwidth (kHz)
13.56	24.97	21.487



9. RADIATED EMISSION TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMIT

FCC §15.225

IC RSS-210, Annex B.6

IC RSS-GEN, Section 8.9 (Transmitter)

(a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/ meter at 30 meters.

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

(d) The field strength of any emissions appearing outside of the 13.110– 14.010 MHz and shall not exceed the general radiated emission limits in § 15.209 as follows:

§15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

RSS-GEN, Section 8.9 and 8.10.

Frequency Range (MHz)	Field Strength Limit (uA/m) at 3 m	Field Strength Limit (dBuA/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

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz

or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

Formula for converting the filed strength from uV/m to dBuV/m is:

Limit (dBuV/m) = 20 log limit (uV/m)

In addition:

§15.209 (d) The emission limits shown the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emissions limits in these three bands are based on measurements employing an average detector.

§15.209 (d) The provisions in §§ 15.225, measuring emissions at distances other than the distances specified in the above table, determining the frequency range over which radiated emissions are to be measured, and limiting peak emissions apply to all devices operated under this part.

TEST PROCEDURE

ANSI C63.10 - 2020

The EUT is an intentional radiator that incorporates a digital device, the highest fundamental frequency generated or used in the device is 13.56 MHz; therefore, the frequency range was investigated from 9kHz to the 10th harmonic of the highest fundamental frequency, or 1000 MHz, whichever is greater.

Note: For all Below 30MHz test data, 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 $40 \cdot \log(\text{test distance} / \text{specification distance})$.

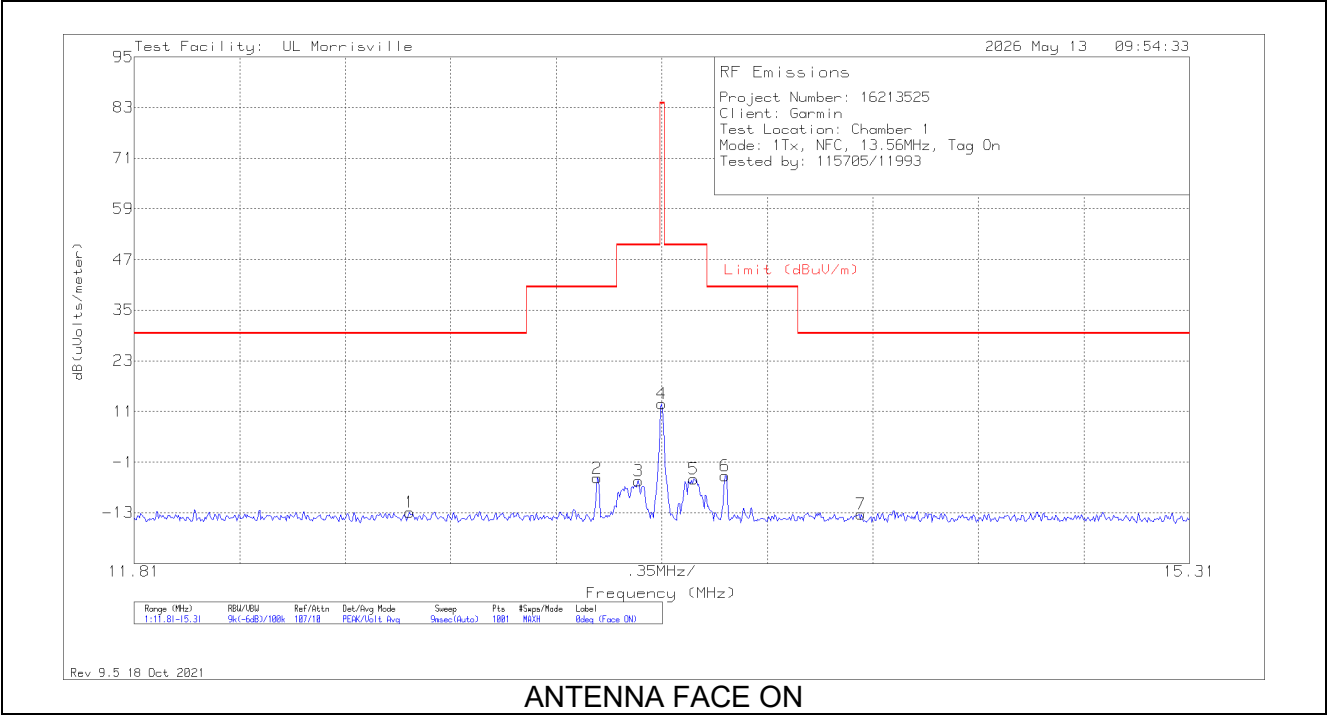
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore, sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

RESULTS

9.2. FUNDAMENTAL AND SPURIOUS EMISSIONS (<30MHz)

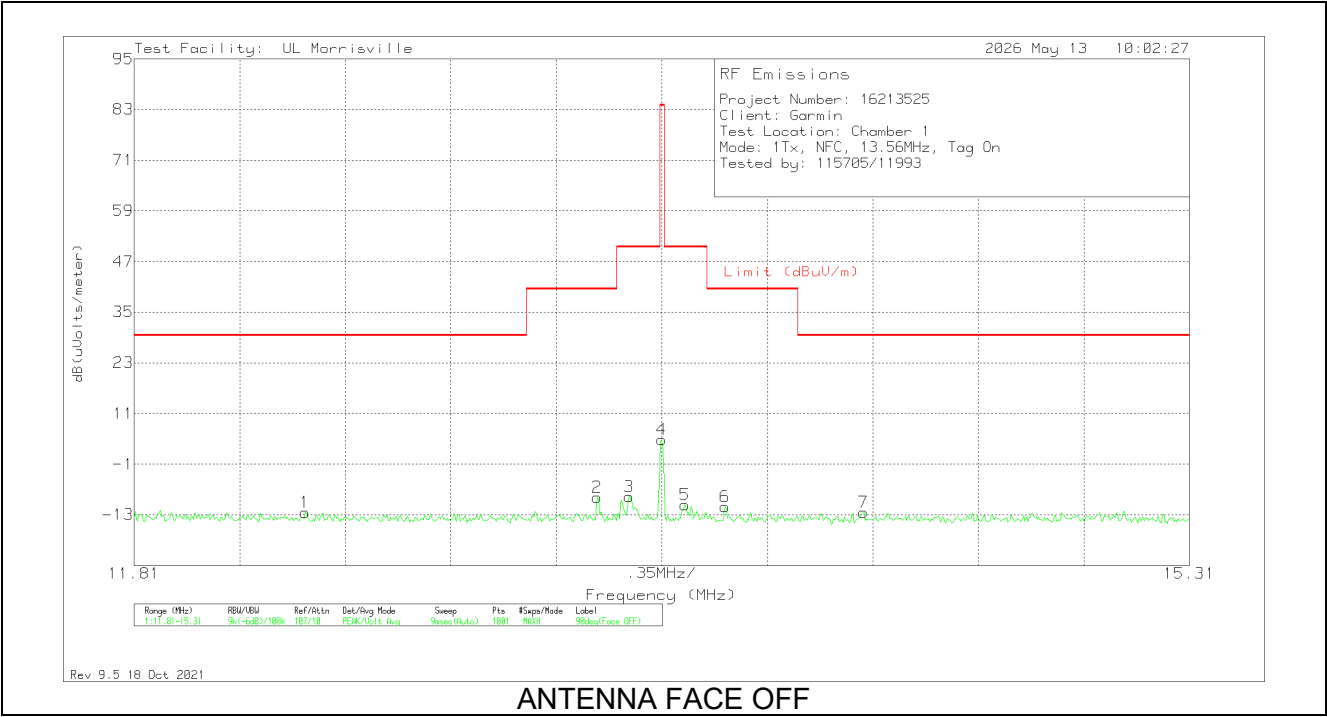
9.2.1. TAG ON WITH SEPRATION

FUNDAMENTAL



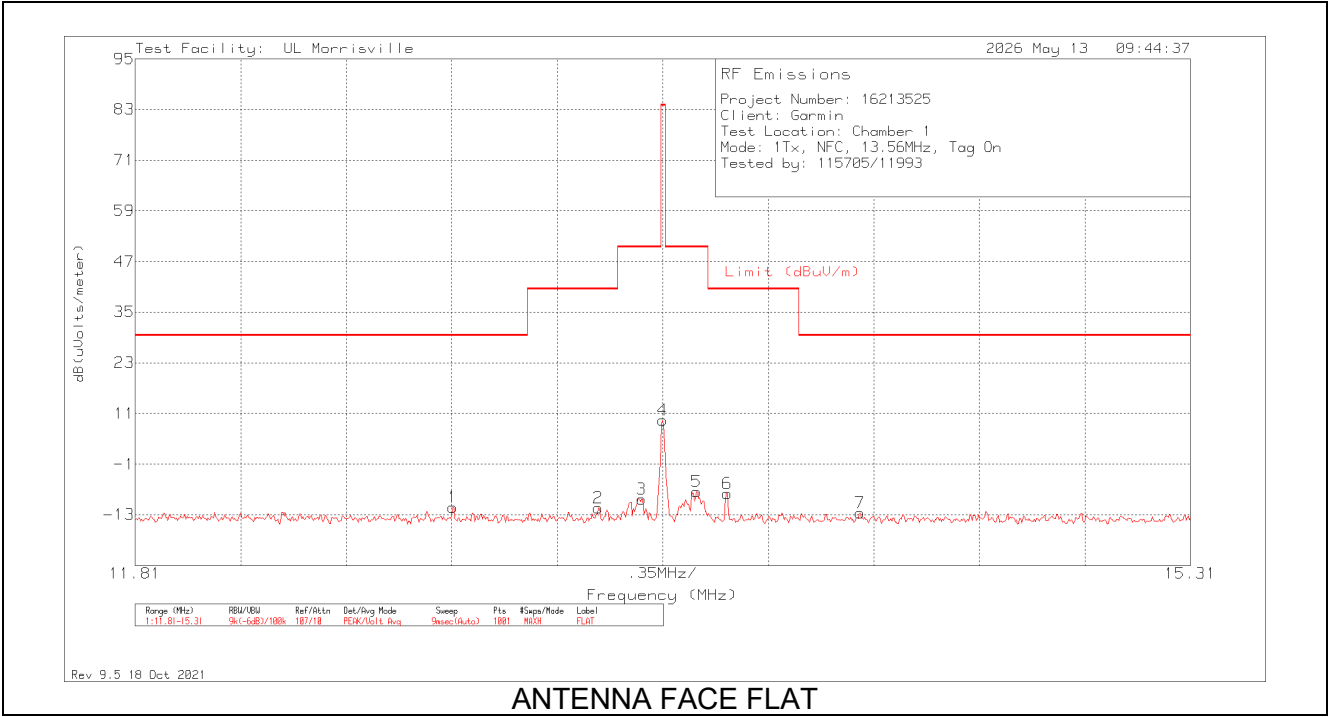
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	12.7235	15.89	Pk	10.6	.6	-40	-12.91	29.5	-42.41	252	0 degs
2	13.3465	24.03	Pk	10.6	.6	-40	-4.77	40.5	-45.27	252	0 degs
3	13.483	23.39	Pk	10.6	.6	-40	-5.41	50.5	-55.91	252	0 degs
4	13.56	41.6	Pk	10.6	.6	-40	12.8	84	-71.2	252	0 degs
5	13.665	23.77	Pk	10.6	.6	-40	-5.03	50.5	-55.53	252	0 degs
6	13.77	24.57	Pk	10.6	.6	-40	-4.23	40.5	-44.73	252	0 degs
7	14.2215	15.54	Pk	10.6	.6	-40	-13.26	29.5	-42.76	252	0 degs

Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	12.377	16.38	Pk	10.6	.6	-40	-12.42	29.5	-41.92	319	90 degs
2	13.3465	19.93	Pk	10.6	.6	-40	-8.87	40.5	-49.37	319	90 degs
3	13.4515	20.06	Pk	10.6	.6	-40	-8.74	50.5	-59.24	319	90 degs
4	13.56	33.67	Pk	10.6	.6	-40	4.87	84	-79.13	319	90 degs
5	13.637	18.11	Pk	10.6	.6	-40	-10.69	50.5	-61.19	319	90 degs
6	13.77	17.71	Pk	10.6	.6	-40	-11.09	40.5	-51.59	319	90 degs
7	14.2285	16.38	Pk	10.6	.6	-40	-12.42	29.5	-41.92	319	90 degs

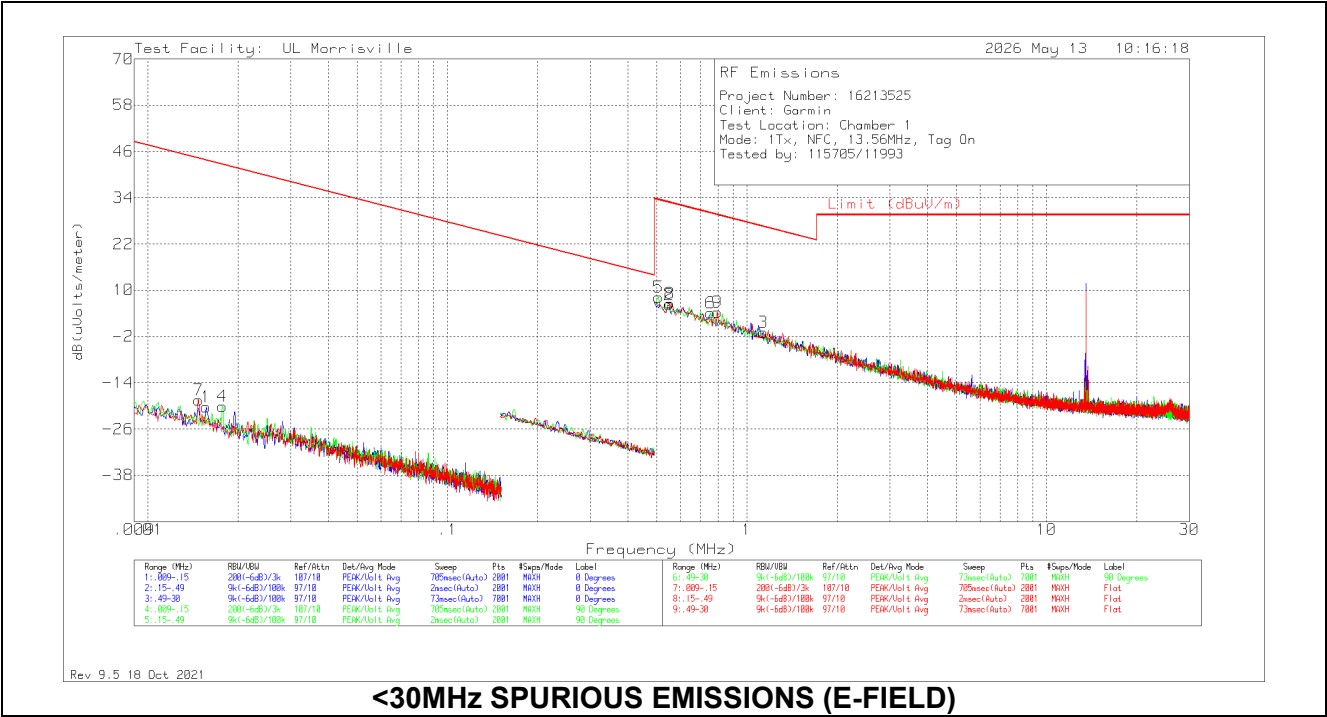
Pk - Peak detector



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Loop Angle
1	12.8635	17.56	Pk	10.6	.6	-40	-11.24	29.5	-40.74	353	Flat
2	13.3465	17.41	Pk	10.6	.6	-40	-11.39	40.5	-51.89	353	Flat
3	13.49	19.5	Pk	10.6	.6	-40	-9.3	50.5	-59.8	353	Flat
4	13.56	38.2	Pk	10.6	.6	-40	9.4	84	-74.6	353	Flat
5	13.672	21.25	Pk	10.6	.6	-40	-7.55	50.5	-58.05	353	Flat
6	13.7735	20.83	Pk	10.6	.6	-40	-7.97	40.5	-48.47	353	Flat
7	14.2145	16.21	Pk	10.6	.6	-40	-12.59	29.5	-42.09	353	Flat

Pk - Peak detector

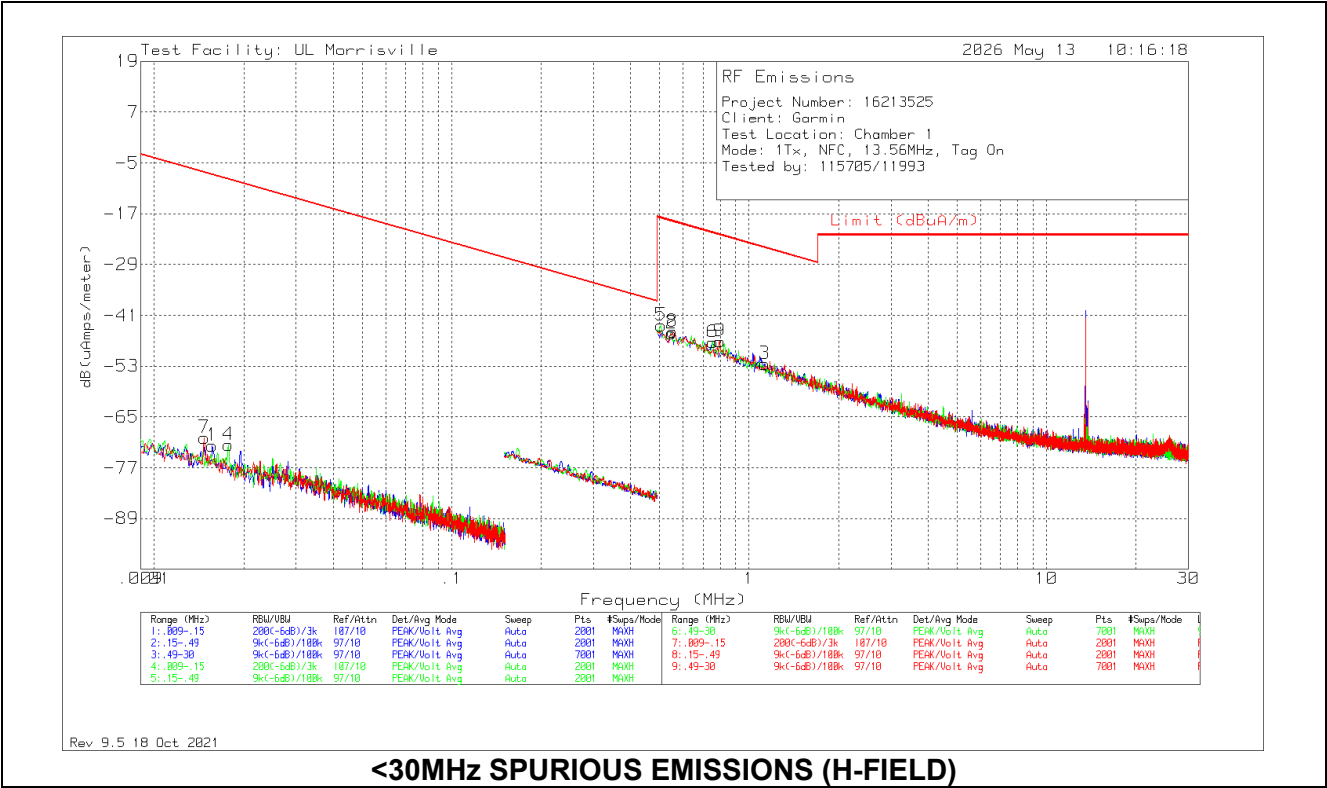
SPURIOUS EMISSION – E FIELD



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
7	.01475	44.88	Pk	16.6	.1	-80	-18.42	44.23	64.23	-62.65	0-360	Flat
1	.01567	43.53	Pk	16.1	.1	-80	-20.27	43.7	63.7	-63.97	0-360	0 degs
4	.01773	44.7	Pk	15.1	.1	-80	-20.1	42.63	62.63	-62.73	0-360	90 degs
5	.50686	37.07	Pk	11	.1	-40	8.17	33.51	-	-25.34	0-360	90 degs
2	.54902	35.22	Pk	11	.1	-40	6.32	32.81	-	-26.49	0-360	0 degs
8	.55324	35.54	Pk	11	.1	-40	6.64	32.75	-	-26.11	0-360	Flat
6	.75561	33.03	Pk	11	.1	-40	4.13	30.04	-	-25.91	0-360	90 degs
9	.79777	33.23	Pk	11	.1	-40	4.33	29.57	-	-25.24	0-360	Flat
3	1.13083	27.89	Pk	11	.2	-40	-.91	26.54	-	-27.45	0-360	0 degs

Pk - Peak detector

SPURIOUS EMISSION – H FIELD

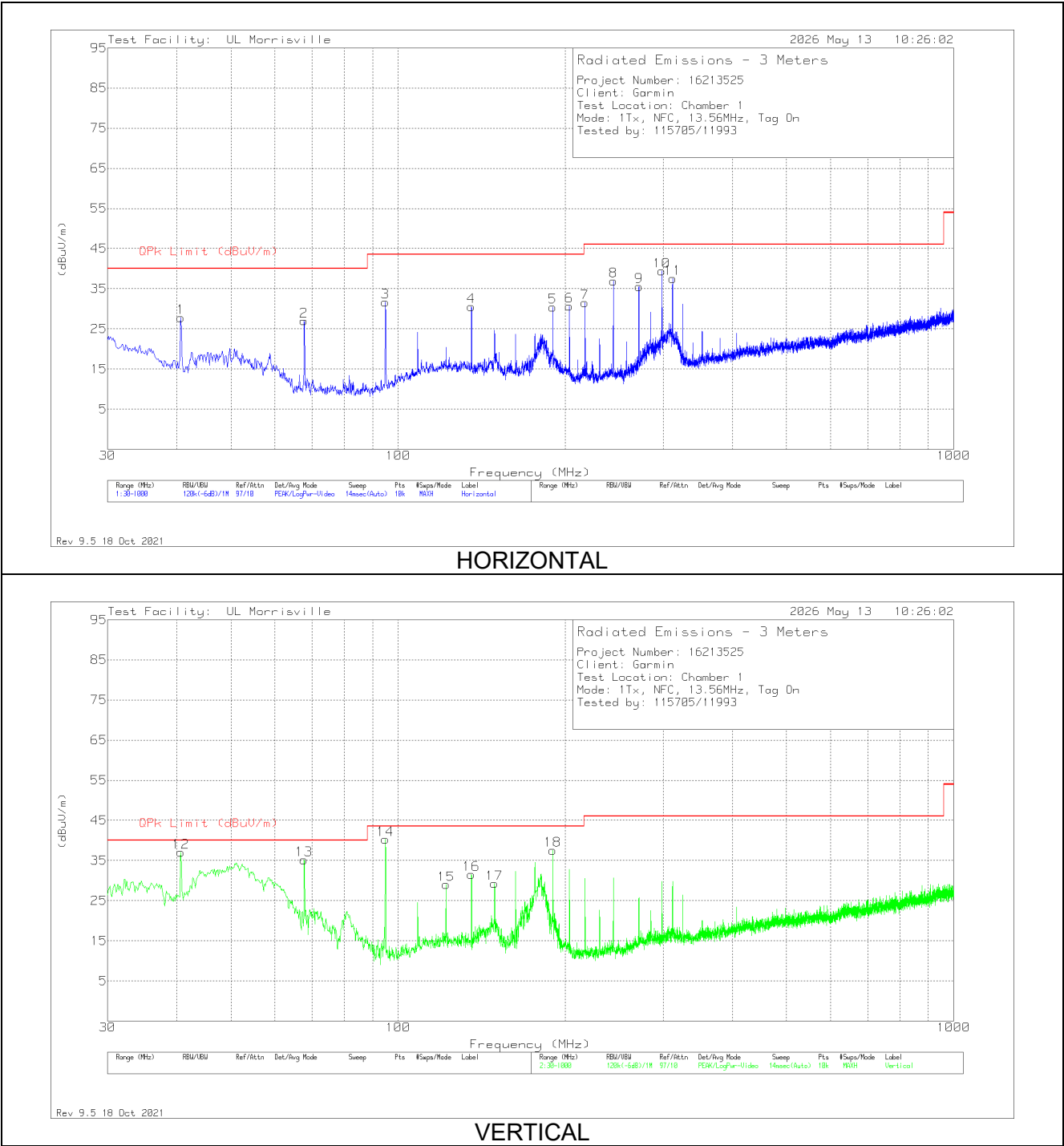


Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ANT (dB/m)	Gain/Loss (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uAmps/meter)	QP/AV Limit (dBuA/m)	PK Limit (dBuA/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
7	.01475	44.88	Pk	-34.9	.1	-80	-69.92	-7.27	12.73	-62.65	0-360	404	Flat
1	.01567	43.53	Pk	-35.4	.1	-80	-71.77	-7.8	12.2	-63.97	0-360	404	0 degs
4	.01773	44.7	Pk	-36.4	.1	-80	-71.6	-8.87	11.13	-62.73	0-360	404	90 degs
5	.50686	37.07	Pk	-40.5	.1	-40	-43.33	-17.99	-	-25.34	0-360	404	90 degs
2	.54902	35.22	Pk	-40.5	.1	-40	-45.18	-18.69	-	-26.49	0-360	404	0 degs
8	.55324	35.54	Pk	-40.5	.1	-40	-44.86	-18.75	-	-26.11	0-360	404	Flat
6	.75561	33.03	Pk	-40.5	.1	-40	-47.37	-21.46	-	-25.91	0-360	404	90 degs
9	.79777	33.23	Pk	-40.5	.1	-40	-47.17	-21.93	-	-25.24	0-360	404	Flat
3	1.13083	27.89	Pk	-40.5	.2	-40	-52.41	-24.96	-	-27.45	0-360	404	0 degs

Pk - Peak detector

9.3. TX SPURIOUS EMISSION 30 TO 1000 MHz

9.3.1. TAG ON WITH SEPRATION



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	90629 ACF (dB/m)	Gain/Loss (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.67	39.79	Pk	19.4	-31.4	27.79	40	-12.21	0-360	300	H
12	40.6753	46.06	Qp	19.4	-31.4	34.06	40	-5.94	37	155	V
2	67.733	43.37	Pk	14.4	-30.8	26.97	40	-13.03	0-360	300	H
13	67.803	49.46	Qp	14.4	-30.8	33.06	40	-6.94	12	103	V
3	94.893	47.35	Pk	15.2	-30.9	31.65	43.52	-11.87	0-360	199	H
14	94.9199	54.2	Qp	15.2	-30.9	38.5	43.52	-5.02	205	104	V
15	122.053	39.68	Pk	20.1	-30.8	28.98	43.52	-14.54	0-360	100	V
4	135.536	41.74	Pk	19.5	-30.7	30.54	43.52	-12.98	0-360	199	H
16	135.536	42.77	Pk	19.5	-30.7	31.57	43.52	-11.95	0-360	100	V
17	149.116	40.63	Pk	18.8	-30.2	29.23	43.52	-14.29	0-360	100	V
5	189.856	42.82	Pk	17.6	-30	30.42	43.52	-13.1	0-360	199	H
18	189.8455	47.41	Qp	17.6	-30	35.01	43.52	-8.51	237	114	V
6	203.339	43.09	Pk	18.2	-30.6	30.69	43.52	-12.83	0-360	300	H
7	216.919	44.49	Pk	16.8	-29.8	31.49	46.02	-14.53	0-360	100	H
8	244.079	48.84	Pk	17.8	-29.7	36.94	46.02	-9.08	0-360	100	H
9	271.239	45.77	Pk	19.3	-29.5	35.57	46.02	-10.45	0-360	100	H
10	298.302	49.67	Pk	19.5	-29.8	39.37	46.02	-6.65	0-360	100	H
11	311.882	46.81	Pk	19.9	-29.2	37.51	46.02	-8.51	0-360	100	H

Pk - Peak detector

Qp - Quasi-Peak detector

10. FREQUENCY STABILITY

LIMIT

§15.225 (e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency, over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

IC RSS-210, Annex B.6

Carrier frequency stability shall be maintained to $\pm 0.01\%$ (± 100 ppm).

TEST PROCEDURE

ANSI C63.10-2020 Clause 6.8

RESULTS

No non-compliance noted.

10.1. TAG ON WITH SEPERATION

Reference Frequency: EUT Channel 13.56 MHz @ 20°C Limit: ± 100 ppm = 1.356 kHz										
Power Supply	Envir. Temp	Frequency Deviation Measured with Time Elapse								
(Vdc)	(°C)	Startup (MHz)	Delta (ppm)	@ 2 mins (MHz)	Delta (ppm)	@ 5 mins (MHz)	Delta (ppm)	@ 10 mins (MHz)	Delta (ppm)	Limit (ppm)
3.91	50	13.5606000	29.499	13.5606000	29.499	13.5598800	82.596	13.5606000	29.499	± 100
3.91	40	13.5601000	66.372	13.5608000	14.749	13.5593000	125.369	13.5608000	14.749	± 100
3.91	30	13.5601400	63.422	13.5601400	63.422	13.5601400	63.422	13.5600120	72.861	± 100
3.91	20	13.5610000	0.000	13.5601000	66.372	13.5599200	79.646	13.5601000	66.372	± 100
3.91	10	13.5601200	64.897	13.5601000	66.372	13.5601200	64.897	13.5601200	64.897	± 100
3.91	0	13.5601200	64.897	13.5598200	87.021	13.5601400	63.422	13.5601400	63.422	± 100
3.91	-10	13.5601400	63.422	13.5601400	63.422	13.5601400	63.422	13.5601400	63.422	± 100
3.91	-20	13.5601400	63.422	13.5601400	63.422	13.5601400	63.422	13.5601200	64.897	± 100
3.70	20	13.5600750	68.215	13.5601750	60.841	13.5601000	66.372	13.5603750	46.091	± 100
4.5	20	13.5599000	81.121	13.5596750	97.714	13.5601500	62.684	13.5598750	82.965	± 100

Tested by: 5/28/2026

Test date: 33499/84740

NOTE: EUT was tested at 3.70 V for a low voltage condition as this is the lowest operating voltage of the EUT and 4.50 V as the high voltage condition as this is its max voltage.

11. AC MAINS LINE CONDUCTED EMISSIONS

LIMITS

§15.207
IC RSS-GEN, Section 8.8

Frequency range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Notes: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

TEST PROCEDURE

ANSI C63.10:2020

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.

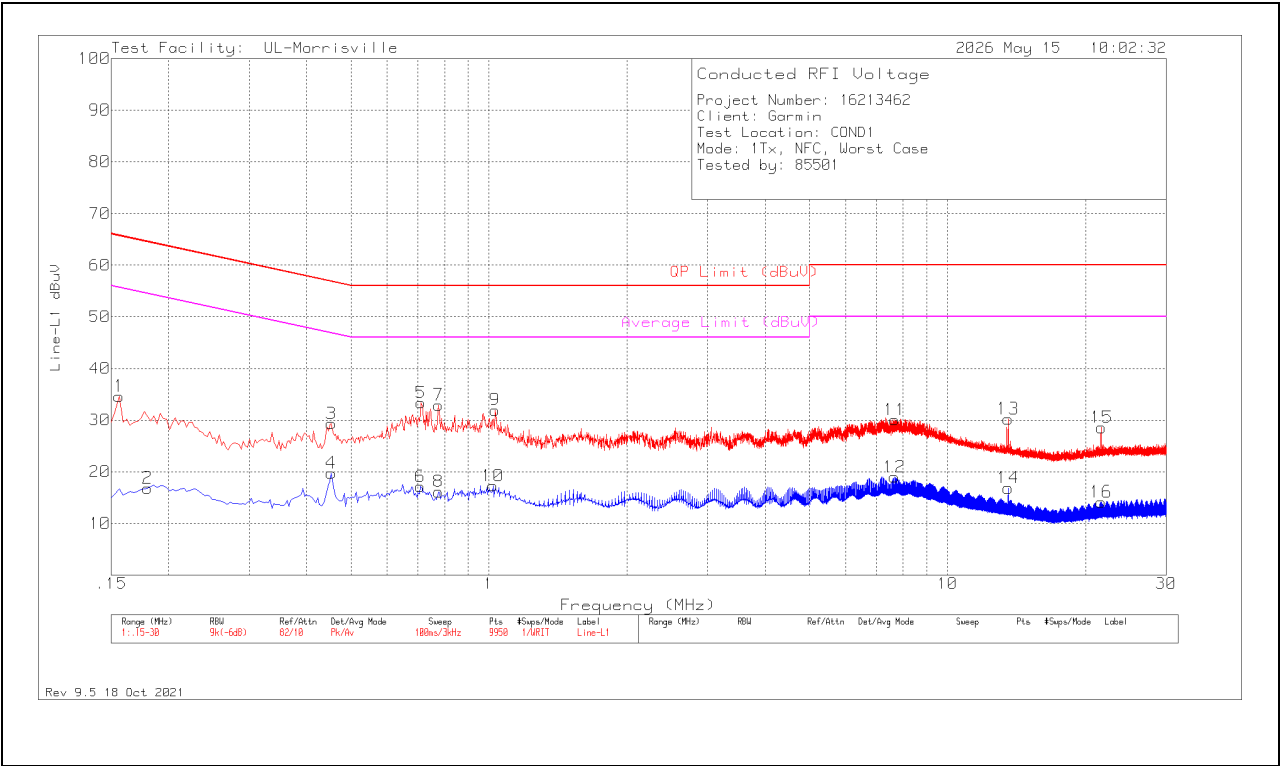
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

No non-compliance noted:

11.1. TAG ON WITH SEPRATION

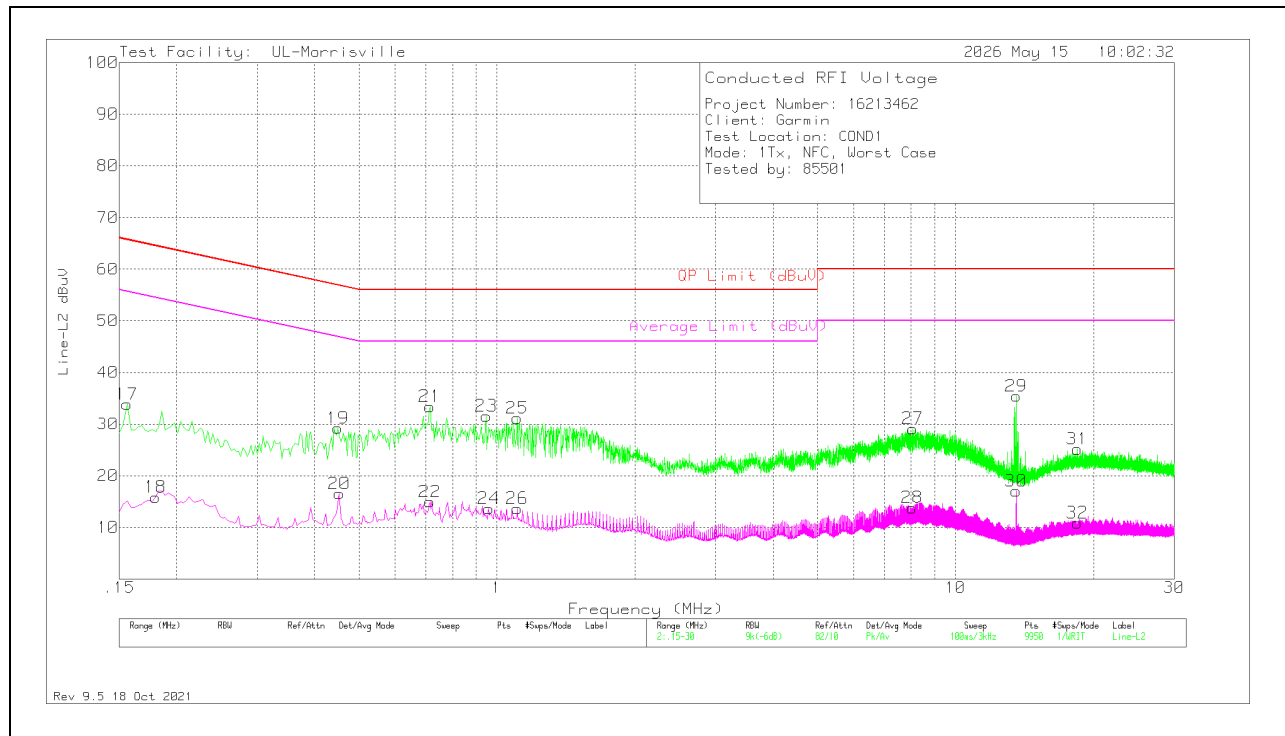
LINE 1 RESULTS



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	.156	24.61	Pk	.2	9.8	34.61	65.67	-31.06	-	-
2	.18	6.84	Av	.2	9.8	16.84	-	-	54.49	-37.65
3	.453	19.54	Pk	0	9.8	29.34	56.82	-27.48	-	-
4	.453	9.95	Av	0	9.8	19.75	-	-	46.82	-27.07
6	.708	7.35	Av	0	9.8	17.15	-	-	46	-28.85
5	.711	23.56	Pk	0	9.8	33.36	56	-22.64	-	-
7	.777	23.12	Pk	0	9.8	32.92	56	-23.08	-	-
8	.777	6.33	Av	0	9.8	16.13	-	-	46	-29.87
10	1.02	7.48	Av	0	9.8	17.28	-	-	46	-28.72
9	1.032	22.16	Pk	0	9.8	31.96	56	-24.04	-	-
12	7.662	8.86	Av	.1	10	18.96	-	-	50	-31.04
11	7.68	19.96	Pk	.1	10	30.06	60	-29.94	-	-
14	13.56	6.66	Av	.1	10.1	16.86	-	-	50	-33.14
13	13.563	20.01	Pk	.1	10.1	30.21	60	-29.79	-	-
16	21.639	3.72	Av	.2	10.2	14.12	-	-	50	-35.88
15	21.693	18.17	Pk	.2	10.2	28.57	60	-31.43	-	-

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)
17	.156	23.82	Pk	.2	9.8	33.82	65.67	-31.85	-	-
18	.18	5.85	Av	.2	9.8	15.85	-	-	54.49	-38.64
19	.45	19.39	Pk	0	9.8	29.19	56.88	-27.69	-	-
20	.453	6.72	Av	0	9.8	16.52	-	-	46.82	-30.3
21	.714	23.6	Pk	0	9.8	33.4	56	-22.6	-	-
22	.714	5.16	Av	0	9.8	14.96	-	-	46	-31.04
23	.948	21.76	Pk	0	9.8	31.56	56	-24.44	-	-
24	.96	3.84	Av	0	9.8	13.64	-	-	46	-32.36
25	1.107	21.33	Pk	0	9.8	31.13	56	-24.87	-	-
26	1.107	3.84	Av	0	9.8	13.64	-	-	46	-32.36
28	8.046	3.7	Av	.1	10	13.8	-	-	50	-36.2
27	8.07	19.01	Pk	.1	10	29.11	60	-30.89	-	-
30	13.56	6.82	Av	.1	10.1	17.02	-	-	50	-32.98
29	13.572	25.23	Pk	.1	10.1	35.43	60	-24.57	-	-
32	18.438	.65	Av	.1	10.1	10.85	-	-	50	-39.15
31	18.444	14.96	Pk	.1	10.1	25.16	60	-34.84	-	-

Pk - Peak detector
Av - Average detection

12. SETUP PHOTOS

Please refer to R16213462-EP1 for setup photos

END OF TEST REPORT