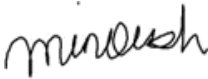


RF Test Report

Test Report Number	HID-26022631-LC-FCC-IC-RF-RFID-Rev1.0	
FCC ID IC	JQ6-TRC3 2236B-TRC3	
Applicant	HID Global Corporation	
Applicant Address	611 Center Ridge Drive, Austin, TX, 78753, USA	
Product Name	Tag Reader 3	
Model (s)	TRC3	
Date of Receipt	03/24/2026	
Date of Test	04/09/2026- 05/01/2026	
Report Issue Date	07/01/2026	
Test Standards	47 CFR Part 15.231 RSS-210 Issue 11, June 2024	
Test Result	PASS	
	Issued by: Vista Compliance Laboratories 1261 Puerta Del Sol, San Clemente, CA 92673 USA www.vista-compliance.com	
 Minoush Niknam (Test Engineer)	 Jerry Bai (Technical Manager)	
This report is for the exclusive use of the applicant. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. Note that the results contained in this report pertain only to the test samples identified herein, and the results relate only to the items tested and the results that were obtained in the period between the date of initial receipt of samples and the date of issue of the report. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested and the results thereof based upon the information provided to us. The applicant has 60 days from date of issuance of this report to notify us of any material error or omission. Failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by any government agencies. This report is not to be reproduced by any means except in full and in any case not without the written approval of Vista Laboratories.		

REVISION HISTORY

Report Number	Version	Description	Issued Date
HID-26022631-LC-FCC-IC-RF-RFID	01	Initial report	05/10/2026
HID-26022631-LC-FCC-IC-RF-RFID-Rev1.0	Rev1.0	Update Model number to "BVBFTRC3, BVBFTR3"	07/01/2026

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1 Test Summary

FCC Rules	ISED Rules	Test Item	Verdict
§15.203	N/A	Antenna Requirement	Pass
§15.231 (b)	RSS-210. A1.3	Fundamental Field Strength	Pass
§15.205, §15.209 §15.231 (b)	RSS-Gen §8.9	Radiated Spurious Emissions	Pass
§15.231 (c)	RSS-Gen §1.4	Occupied Bandwidth	Pass
§15.231 (a) (1)	RSS-210. A1.2	Deactivation time	Pass
§15.207 (a)	RSS-Gen §8.8	AC Power Line Conducted Emissions	Pass

2 General Information

2.1 Applicant

Applicant	HID Global Corporation
Applicant address	611 Center Ridge Drive, Austin, TX, 78753, USA
Manufacturer	HID Global Corporation
Manufacturer Address	611 Center Ridge Drive, Austin, TX, 78753, USA

2.2 Product information

Product Name	Tag Reader Controller 3 (TRC3); Tag Reader 3 (TR3)
Product Description	RTLS data gateway
Model Number	BVBFTR3
Family Models	BVBFTRC3
Serial Number	N/A
Frequency Band	433.92 MHz
Type of modulation	FSK
Equipment Class	DSC
Antenna Information	Internal Chip antenna: -12.96 dBi gain (max) External Dipole antenna with RP-SMA connector: 3.3 dBi gain (max)
Clock Frequencies	N/A
Input Power	12VDC, 200 mA (Ethernet) PoE: IEEE 802.3af
Power Adapter Manufacturer/Model	V-Infinity EPSA120200U
Power Adapter SN	N/A
Hardware version	N/A
Software version	N/A
Additional Info	- The TRC3 is a gateway device designed for use within HID RTLS Solutions. - The unit can be powered either through a 12V DC supply or via Power over Ethernet (PoE). - External antenna connectors are available as an option to provide greater sensitivity for BLE and 433 MHz receivers.

2.3 Test standard and method

Test standard	47 CFR Part 15.231 RSS-210 Issue 11, June 2024
Test method	ANSI C63.10-2020 RSS-Gen Issue 5, Amd 2, February 2021

3 Test Site Information

Lab performing tests	Vista Laboratories, Inc.
Lab Address	1261 Puerta Del Sol, San Clemente, CA 92673 USA
Phone Number	+1 (949) 393-1123
Website	www.vista-compliance.com

Test Condition	Temperature	Humidity	Atmospheric Pressure
RF Testing	23.2°C	57.5%	996 mbar
Radiated Emission Testing	23.2°C	57.5%	996 mbar

4 Modification of EUT / Deviations from Standards

The EUT is an engineering sample configured with RF test firmware to support TX/RX test modes. Testing was performed without hardware modification and in accordance with standard test procedures.

5 Test Configuration and Operation

5.1 EUT Test Configuration

The Equipment Under Test (EUT) was configured for RF testing in 433.92 MHz operating mode. During conducted testing, the EUT was powered and controlled via USB connection to a test PC using Tera Term via serial interface. For radiated testing, the EUT was powered using a 12VDC power adapter. The device was configured to operate in continuous transmit mode at 433.92 MHz to represent worst-case emissions conditions (duty cycle > 98%). For conducted measurements, the external antenna connector (SMA port) was used. For radiated measurements, the internal antenna was used under normal operating conditions.

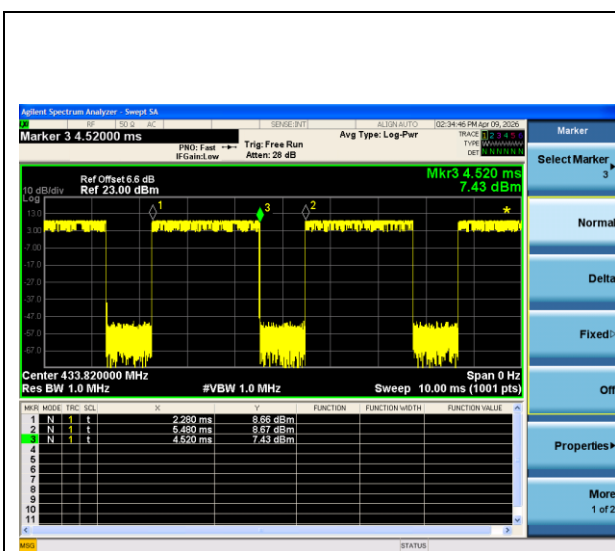
The following software was used for testing and monitoring EUT performance:

Software	Description
EMISoft Vasona	EMC/RF Spurious emission test software.
Tera term	Serial terminal used to set EUT to continuous TX mode for 433.92 MHz testing. -

5.2 Supporting Equipment

Description	Manufacturer	Model #	Serial #
USB Type-C Cable	N/A	N/A	N/A
Laptop (Control PC)	Lenovo	YOGA7	9X0B90L4
Ac/DC Power Supply	V-Infinity	EPSA120200U	EPSA120200U-P5N-SZ

5.3 Duty cycle Measurement



- PW = 0.260 ms
- T period= 1.100 ms
- Duty Cycle = 0.236
- Duty Cycle Factor = -12.54 dB
- PW = Marker 2- Marker 1
- T is the total period = (Marker2-Marker 1) = 1.100 ms
- Duty Cycle= PW/T= (0.260)/ (1.100) = 0.236
- Duty Cycle Factor = 20*log (Duty Cycle)
- = 20* log (0.236)
- = -12.54 dB

Duty Cycle

Duty cycle Factor

6 Uncertainty of Measurement

Test item	Measurement Uncertainty (dB)
RF Output Power (Conducted)	±1.2 dB
Power Spectral Density	±0.9 dB
Unwanted Emission (conducted)	±2.6 dB
Occupied Channel Bandwidth	±5 %
Radiated Emission (9KHz-30MHz)	±3.5 dB
Radiated Emission (30MHz-1GHz)	±4.6 dB
Radiated Emission (1-18GHz)	±4.9 dB
Radiated Emission (18-40GHz)	±3.5 dB

7 Test Results

7.1 Antenna Requirement

7.1.1 Requirement

Per § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

7.1.2 Result

Analysis:

The EUT is equipped with a permanently attached internal chip antenna mounted on the PCB for 433.92 MHz operation.

The device also provides an external RP-SMA connector for the 433.92 MHz band.

Conclusion:

The EUT complies with the antenna requirements of § 15.203.

7.2 Field strength and Radiated Emissions Measurement

7.2.1 Requirement

§ 15.231 (b), RSS-GEN 6.13,

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (microvolts/meter)	Field strength of spurious emissions (microvolts/meter)
40.66 – 40.70 MHz	2250	225
70 – 130 MHz	1250	125
130 – 174 MHz	1,250 to 3,750	125 to 375
174 – 260 MHz	3,750	3,75
260 – 470 MHz	3,750 to 12,500	3,75 to 12,50
Above 470	12,500	1,250

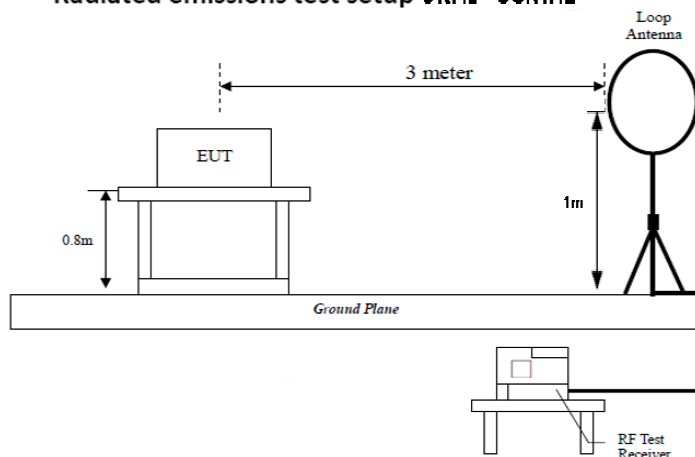
If the emission falls within the restricted band specified in 15.205(a), then the limit in 15.209(a) from the table below must be followed.

Frequency Range	Field strength of fundamental (microvolts/meter)	Measurement Distance (meters)
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

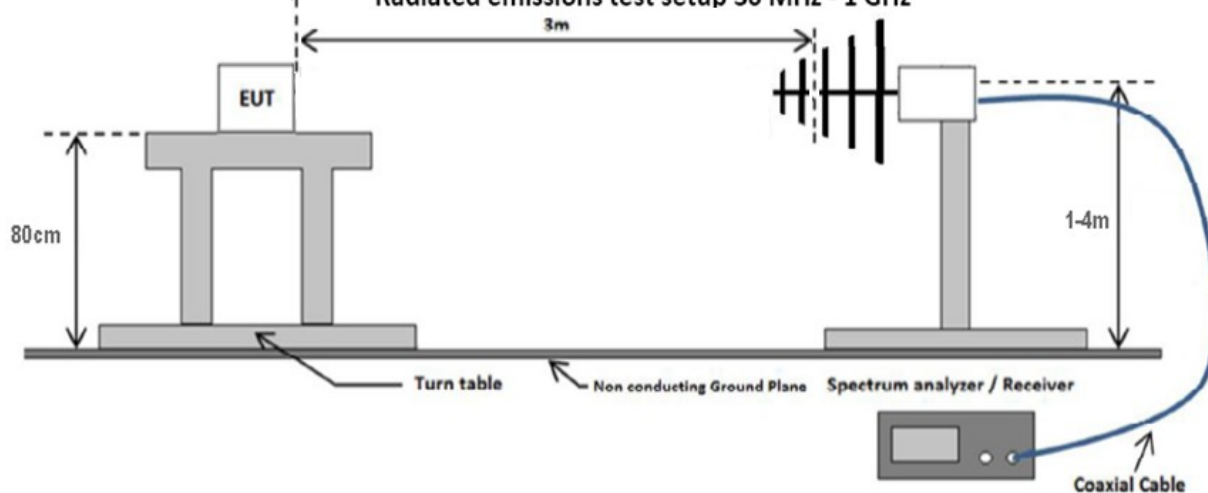
Note: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

7.2.2 Test Setup

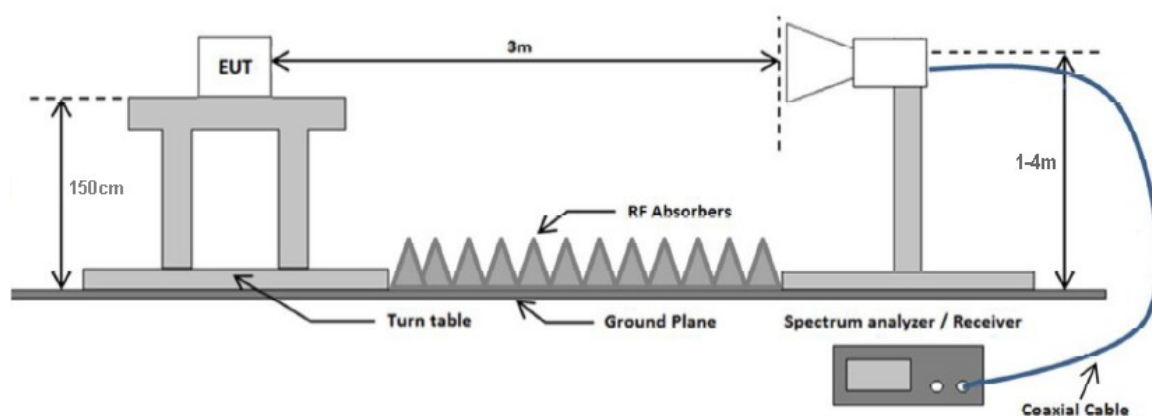
Radiated emissions test setup 9KHz - 30MHz



Radiated emissions test setup 30 MHz - 1 GHz



Radiated emissions test setup above 1 GHz



7.2.3 Test Procedure

According to section 6 radiated spurious emission measurements in ANSI C63.10-2013, Boresight antenna mast was used during the scanning to point to EUT to maximize the emission. The process will be repeated in 3 EUT orientations.

1. The EUT was switched on and allowed to warm up to its normal operating condition.
2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen.
 - b. The EUT was then rotated to the direction that gave the maximum emission.
 - c. Finally, the antenna height was adjusted to the height that gave the maximum emission.
3. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 300 Hz for frequency below 150KHz.
4. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 10 kHz for frequency between 150KHz – 30MHz.
5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-Peak detection at frequency between 30MHz - 1GHz.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak and average measurement at frequency above 1GHz.
7. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.

7.2.4 Test Result

Field strength of Fundamental Test result

External antenna

No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	433.92	84.4	6.3	-2.4	88.2	Peak Max	V	100	0	100.8	-12.6	Pass
2	433.92	-	-	-	75.66	Average Max	-	-	-	80.8	-5.14	Pass
3	433.92	82.00	6.3	-2.4	85.8	Peak Max	H	100	0	100.8	-15.0	Pass
4	433.92	-	-	-	73.26	Average Max	-	-	-	80.8	-7.54	Pass

Remarks:

1. Level (dBuV/m) = Raw (dBuV) + Cable loss(dB) + AF (dB/m).
2. AF (dB/m) = Antenna Factor (dB/m)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)
4. Average= Peak level +Duty cycle factor
Where Duty cycle factor = -12.54 dB (Details please see section 5.3)

Field strength of Fundamental Test result

Embedded Antenna:

No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	433.92	84.6	6.3	-2.4	88.4	Peak Max	V	100	0	100.8	-12.40	Pass
2	433.92	-	-	-	75.86	Average Max	-	-	-	80.8	-4.94	Pass
3	433.92	83.2	6.3	-2.4	87.0	Peak Max	H	100	0	100.8	-13.4	Pass
4	433.92	-	-	-	74.46	Average Max	-	-	-	80.8	-6.34	Pass

Remarks:

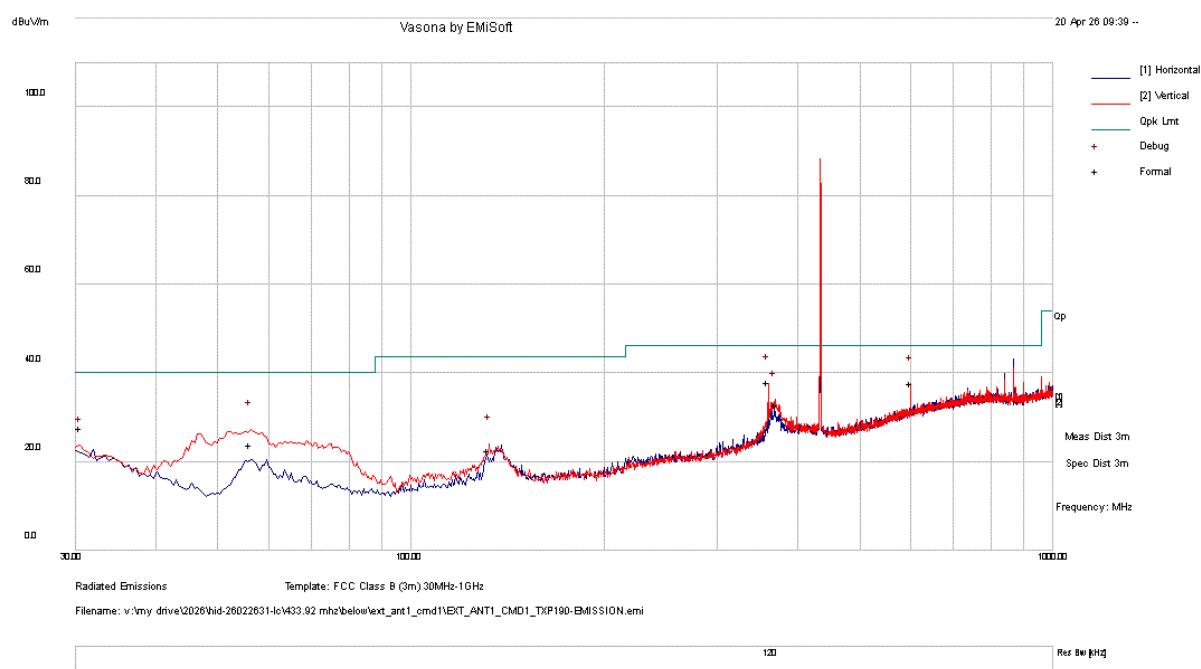
1. Level (dBuV/m) = Raw (dBuV) + Cable loss(dB) + AF (dB/m).
2. AF (dB/m) = Antenna Factor (dB/m)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)
4. Average= Peak level +Duty cycle factor
Where Duty cycle factor = -12.54 dB (Details please see section 5.3)

Radiated Emission Between 9KHz and 30 MHz Test Result

Note: No substantial emission is found other than the noise floor. Different modes have been verified.

RADIATED EMISSIONS BELOW 1 GHZ

Test Standard:	FCC Part 15.231 RSS-210 Issue 11	Mode:	Continuous Transmit Mode
Frequency Range:	30 MHz - 1 GHz	Test Date:	04/20/2026
Antenna Type/Polarity:	Bi-Log/Hor & Ver	Test Engineer:	Minoush Niknam
Remark:	External Antenna	Test Result:	Pass



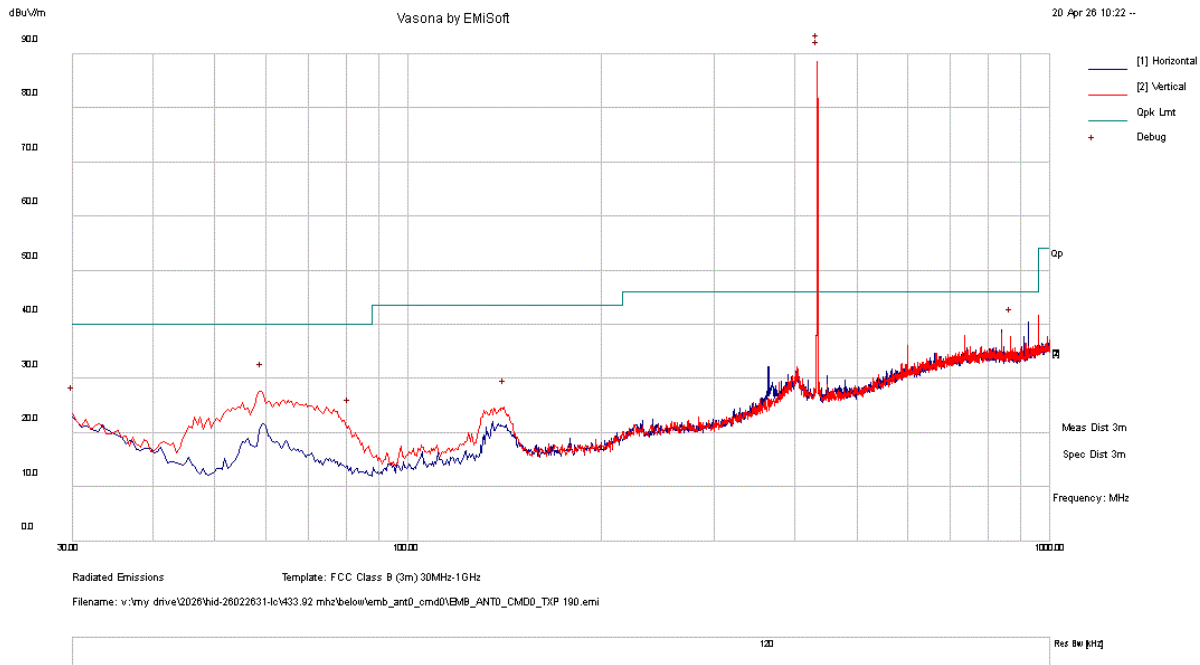
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	359.982	35.8	6.1	-4.0	37.9	Quasi Max	V	131	342	46	-8.1	Pass
2	599.964	29.6	7.2	1.0	37.8	Quasi Max	V	215	203	46	-8.2	Pass
3	369.212	30.4	6.2	-3.5	33.0	Quasi Max	V	100	16	46	-13.0	Pass
4	56.149	34.5	2.9	-13.7	23.7	Quasi Max	V	115	1	40	-16.3	Pass
5	30.504	29.7	2.2	-4.4	27.5	Quasi Max	V	386	60	40	-12.5	Pass
6	132.115	29.7	4.0	-11.3	22.5	Quasi Max	V	100	258	43.5	-21.0	Pass

Remarks:

1. Level (dBuV/m) = Raw (dBuV) + Cable loss(dB) + AF (dB/m).
2. AF (dB/m) = Antenna Factor (dB/m) - Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

RADIATED EMISSIONS BELOW 1 GHz

Test Standard:	FCC Part 15.231 RSS-210 Issue 11	Mode:	Continuous Transmit Mode
Frequency Range:	30 MHz - 1 GHz	Test Date:	04/20/2026
Antenna Type/Polarity:	Bi-Log/Hor & Ver	Test Engineer:	Minoush Niknam
Remark:	Embedded Antenna	Test Result:	Pass



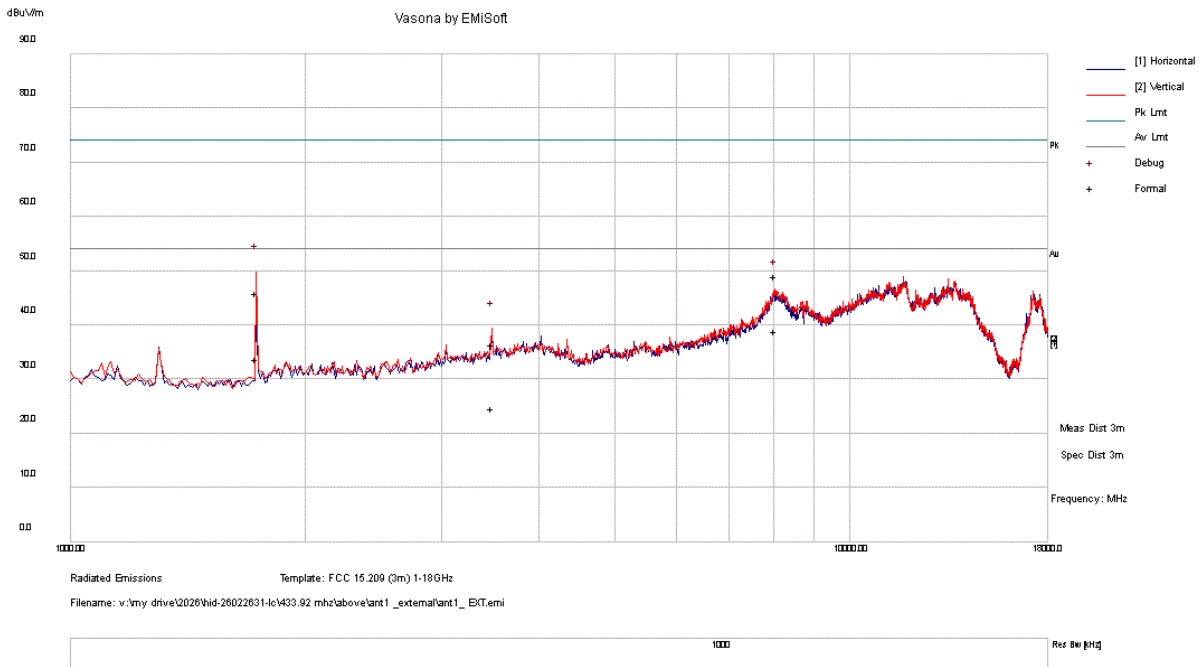
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	59.225	34.2	3.0	-13.6	23.6	Quasi Max	V	206	121	40	-16.4	Pass
2	364.016	31.5	6.1	-3.8	33.8	Quasi Max	H	103	360	46	-12.2	Pass
3	30.000	31.8	2.2	-4.1	29.9	Quasi Max	V	310	342	40	-10.1	Pass
4	46.786	30.0	2.7	-12.7	20.0	Quasi Max	V	100	11	40	-20.0	Pass
5	80.697	30.9	3.3	-13.3	20.9	Quasi Max	V	150	108	40	-19.1	Pass
6	140.847	31.0	4.1	-11.1	24.1	Quasi Max	V	116	212	43.5	-19.4	Pass

Remarks:

1. Level (dBuV/m) = Raw (dBuV) + Cable loss(dB) + AF (dB/m).
2. AF (dB/m) = Antenna Factor (dB/m) - Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

RADIATED EMISSIONS ABOVE 1 GHZ

Test Standard:	FCC Part 15.231 RSS-210 Issue 11	Mode:	Continuous Transmit Mode
Frequency Range:	1 GHz – 6 GHz	Test Date:	04/29/2026
Antenna Type/Polarity:	Horn/Hor & Ver	Test Engineer:	Minoush Niknam
Remark:	External antenna	Test Result:	Pass



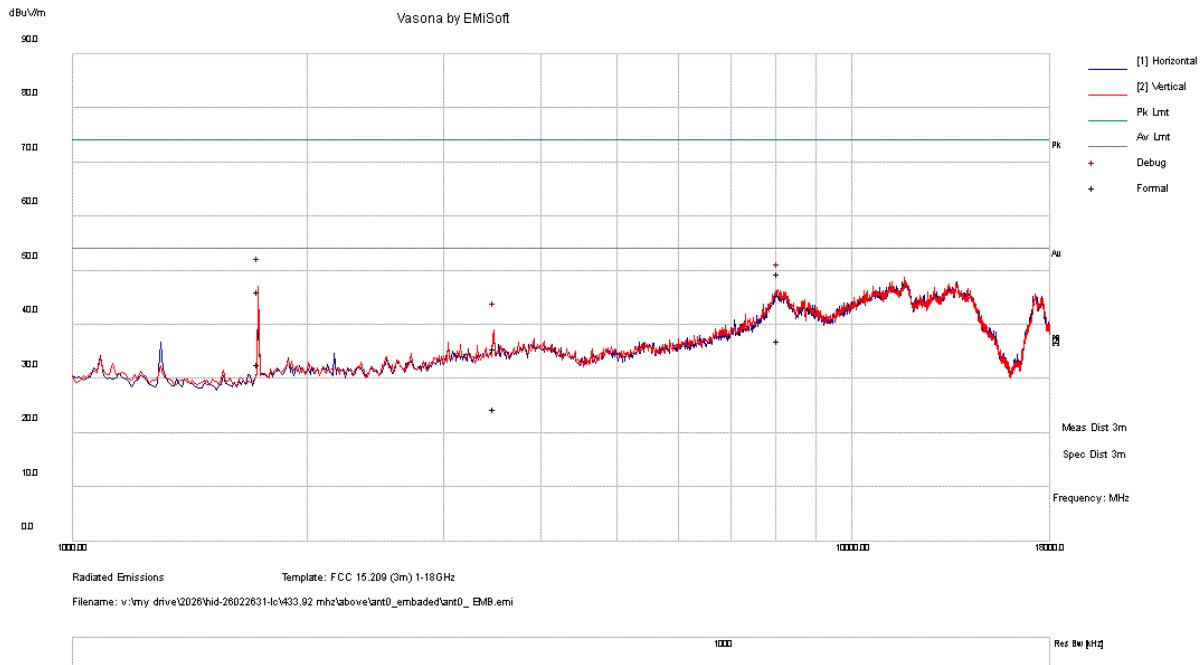
No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	1734.75	41.2	5.9	-1.2	46	Peak Max	V	132	174	74	-28	Pass
2	8024.083	19	14.3	15.8	49.1	Peak Max	V	107	137	74	-24.9	Pass
3	3478.039	24.2	8.2	4.1	36.5	Peak Max	V	180	20	74	-37.5	Pass
4	1734.75	29	5.9	-1.2	33.8	Average Max	V	132	174	54	-20.2	Pass
5	8024.083	8.8	14.3	15.8	38.9	Average Max	V	107	137	54	-15.1	Pass
6	3478.039	12.3	8.2	4.1	24.6	Average Max	V	180	20	54	-29.4	Pass

Remarks:

1. Level (dBuV/m) = Raw (dBuV) + Cable loss(dB) + AF (dB/m).
2. AF (dB/m) = Antenna Factor (dB/m) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

RADIATED EMISSIONS ABOVE 1 GHZ

Test Standard:	FCC Part 15.231 RSS-210 Issue 11	Mode:	Continuous Transmit Mode
Frequency Range:	1 GHz – 6 GHz	Test Date:	04/29/2026
Antenna Type/Polarity:	Horn/Hor & Ver	Test Engineer:	Minoush Niknam
Remark:	Embedded Antenna	Test Result:	Pass



No.	Frequency MHz	Raw dBuV	Cable Loss dB	AF dB/m	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass/Fail
1	1734.913	41.3	5.9	-1.1	46.1	Peak Max	V	100	18	74	-27.9	Pass
2	8058.746	19.4	14.2	15.8	49.4	Peak Max	V	124	116	74	-24.6	Pass
3	3476.483	23.4	8.2	4.1	35.6	Peak Max	V	126	177	74	-38.4	Pass
4	1734.913	27.9	5.9	-1.1	32.7	Average Max	V	100	18	54	-21.3	Pass
5	8058.746	7.1	14.2	15.8	37.1	Average Max	V	124	116	54	-16.9	Pass
6	3476.483	12.1	8.2	4.1	24.4	Average Max	V	126	177	54	-29.6	Pass

Remarks:

1. Level (dBuV/m) = Raw (dBuV) + Cable loss(dB) + AF (dB/m).
2. AF (dB/m) = Antenna Factor (dB/m) – Preamplifier Gain (dB)
3. Margin = Level (dBuV/m) - Limit value(dBuV/m)

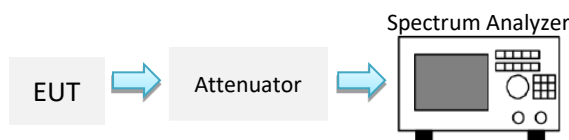
7.3 Occupied Bandwidth

7.3.1 Requirement

Per § 15.215 (c), RSS Gen-GEN, 6.7

The occupied bandwidth of momentarily operated devices shall be less than or equal to 0.25% of the centre frequency for devices operating between 70 MHz and 900 MHz

7.3.2 Test setup



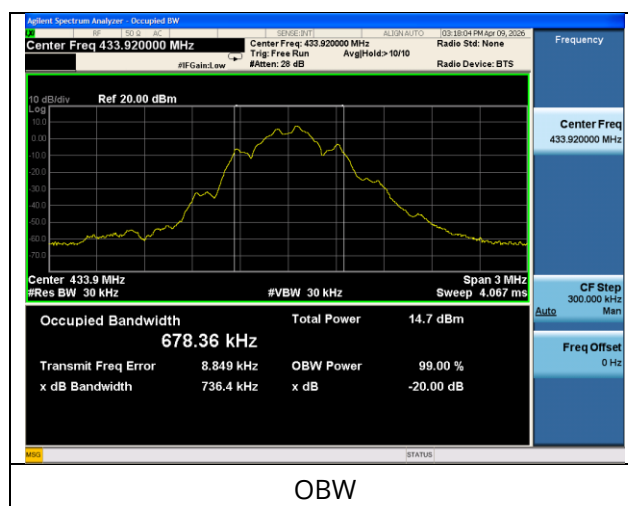
7.3.3 Test Procedure

1. Set RBW = 1% to 5% of the actual occupied BW.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Span = large enough to capture all products of the modulation process
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission; or OBW measurement function to determine the 99% occupied bandwidth.

7.3.4 Test Result

Mode	Frequency (MHz)	20dB Bandwidth (KHz)	Limit (KHz) ≤0.25% of the Center Frequency	99% Bandwidth (KHz)	Verdict
Periodic Transmit	433.92	736.4	1084.75	678.36	Pass

7.3.5 Test Plots



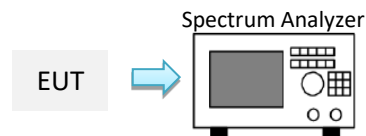
7.4 Deactivation Time

7.4.1 Requirement

Per § 15.231 (a) (1), RSS-210 A1.2 (b)

A transmitter activated automatically shall cease transmission within 5 seconds after activation.

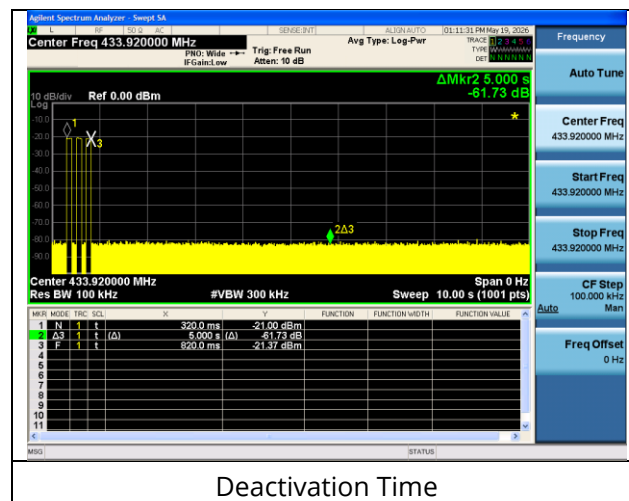
7.4.2 Test setup



7.4.3 Test Procedure

1. Set center frequency of spectrum analyzer=operating frequency.
2. Set the spectrum analyzer as RBW=100k VBW=300k Span=0Hz.
3. Measure the released time and compare with the required limit

7.4.4 Test Plots



7.5 Conducted Emissions

7.5.1 Requirement

Per § 15.207 (a), RSS Gen 8.8

An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

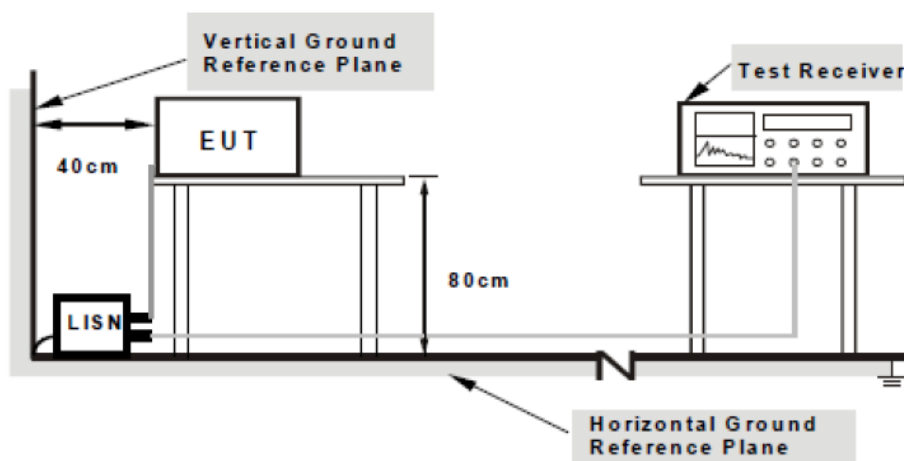
Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Limits for Conducted Emissions at the Mains Ports

Section	Frequency ranges (MHz)	Limit (dBuV)	
		QP	Average
Class B devices	0.15 – 0.5	66 – 56	56 – 46
	0.5 – 5	56	46
	5 – 30	60	50

NOTE 1 The lower limit shall apply at the transition frequencies.

7.5.2 Test setup



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80cm from EUT and at least 80cm from other units and other metal planes support units.

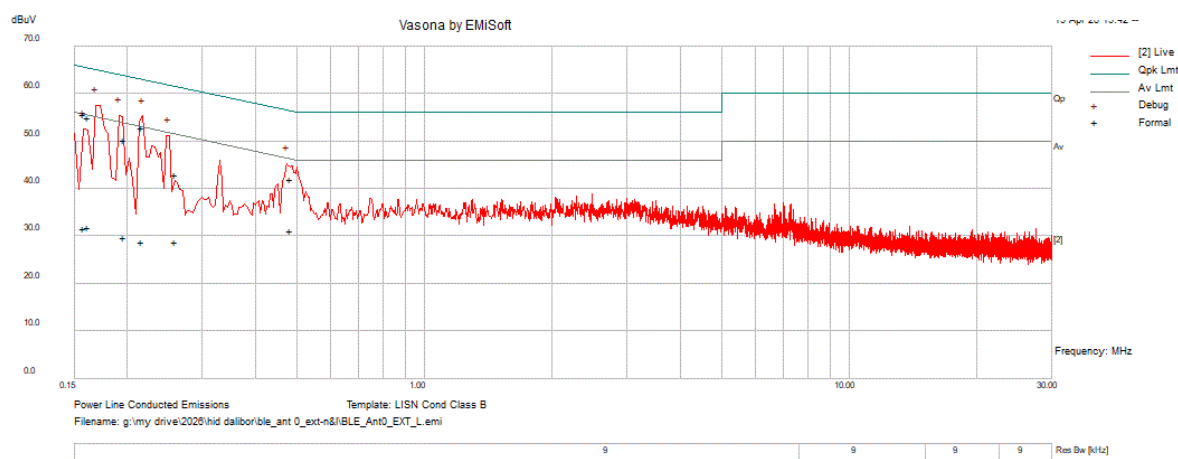
7.5.3 Test Procedure

1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.
2. The power supply for the EUT was fed through a 50 Ω /50 μ H EUT LISN, connected to filtered mains.
3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. The LISN bonded to the reference ground plane used has a direct current (dc) resistance of less than 2.5 m Ω .
4. All other supporting equipment was powered separately from another main supply.
5. The EUT was switched on and allowed to warm up to its normal operating condition.
6. A scan was made on the Live / Neutral line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
7. High peaks, relative to the limit line, were then selected.
8. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made
9. All possible modes of operation were investigated. Only the worst case emissions were measured and reported. All other emissions were relatively insignificant.

7.5.4 Test Result

Conducted Emission

Test Standard:	Part 15.207, RSS Gen	Mode:	N/A
Frequency Range:	0.15-30MHz	Test Date:	04/15/2026
Line:	Live	Test Engineer	Minoush Niknam
Remark:	External antenna	Test Result:	Pass



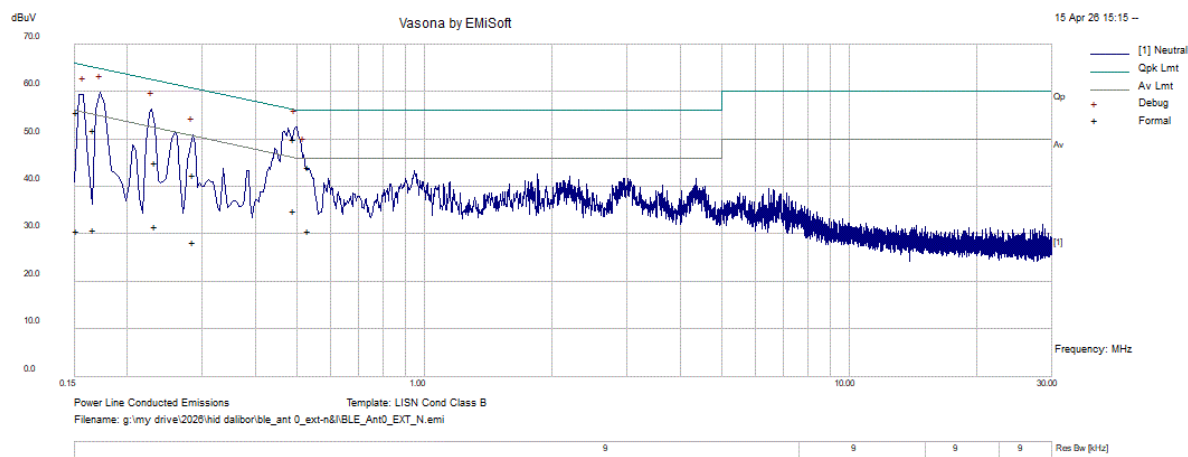
No.	Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Meas. Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
1	0.157	45.3	10	0.2	55.6	Quasi Peak	Live	65.6	-10.0	Pass
2	0.217	42.6	10	0.2	52.9	Quasi Peak	Live	62.9	-10.1	Pass
3	0.196	40.0	10	0.2	50.2	Quasi Peak	Live	63.8	-13.6	Pass
4	0.260	32.8	10	0.1	42.9	Quasi Peak	Live	61.4	-18.5	Pass
5	0.485	31.9	10	0.1	42.0	Quasi Peak	Live	56.3	-14.2	Pass
6	0.162	44.6	10	0.2	54.9	Quasi Peak	Live	65.4	-10.5	Pass
7	0.157	21.4	10	0.2	31.7	Average	Live	55.6	-23.9	Pass
8	0.217	18.5	10	0.2	28.7	Average	Live	52.9	-24.2	Pass
9	0.196	19.5	10	0.2	29.7	Average	Live	53.8	-24.0	Pass
10	0.260	18.7	10	0.1	28.9	Average	Live	51.4	-22.6	Pass
11	0.485	21.1	10	0.1	31.2	Average	Live	46.3	-15.0	Pass
12	0.162	21.8	10	0.2	32.0	Average	Live	55.4	-23.3	Pass

REMARKS:

1. The emission levels of other frequencies were very low against the limit.
2. Factor = Inert loss of LISN
3. Margin value = Emission level - Limit value
4. Emission Level = Raw Value + Cable loss + Factors Value.

Conducted Emission

Test Standard:	Part 15.207, RSS Gen	Mode:	N/A
Frequency Range:	0.15 - 30MHz	Test Date:	04/15/2026
Line:	Neutral	Test Engineer:	Minoush Niknam
Remark:	External antenna	Test Result:	Pass



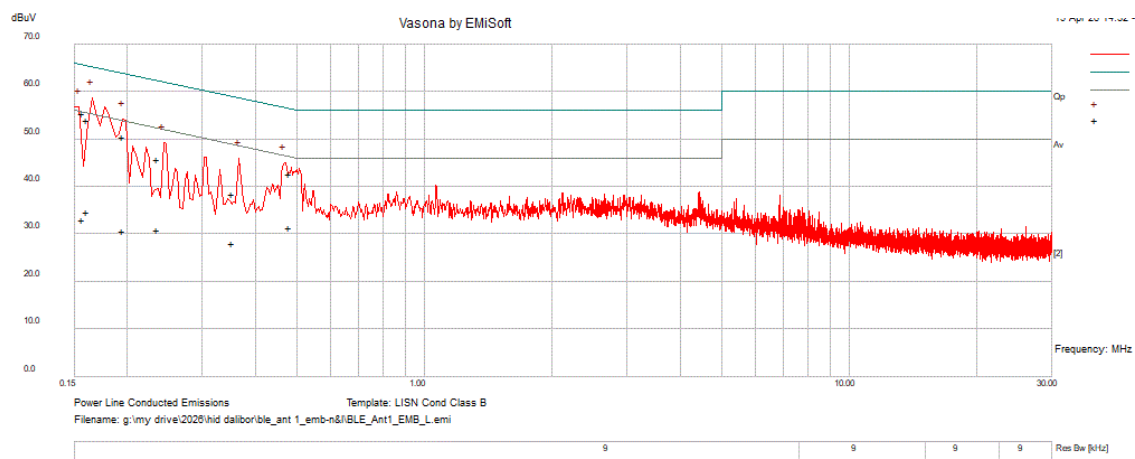
No.	Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Meas. Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
1	0.492	39.8	10	0.1	49.9	Quasi Peak	Neutral	56.1	-6.2	Pass
2	0.167	41.6	10	0.2	51.9	Quasi Peak	Neutral	65.1	-13.3	Pass
3	0.233	34.9	10	0.2	45.1	Quasi Peak	Neutral	62.4	-17.2	Pass
4	0.152	45.5	10	0.2	55.8	Quasi Peak	Neutral	65.9	-10.1	Pass
5	0.532	34.0	10	0.1	44.2	Quasi Peak	Neutral	56.0	-11.8	Pass
6	0.285	32.3	10	0.1	42.5	Quasi Peak	Neutral	60.7	-18.2	Pass
7	0.492	24.7	10	0.1	34.9	Average	Neutral	46.1	-11.3	Pass
8	0.167	20.8	10	0.2	31.1	Average	Neutral	55.1	-24.1	Pass
9	0.233	21.5	10	0.2	31.7	Average	Neutral	52.4	-20.6	Pass
10	0.152	20.4	10	0.2	30.6	Average	Neutral	55.9	-25.2	Pass
11	0.532	20.5	10	0.1	30.6	Average	Neutral	46.0	-15.4	Pass
12	0.285	18.3	10	0.1	28.5	Average	Neutral	50.7	-22.2	Pass

REMARKS:

1. The emission levels of other frequencies were very low against the limit.
2. Factor = Inert loss of LISN
3. Margin value = Emission level - Limit value
4. Emission Level = Raw Value + Cable loss + Factors Value.

Conducted Emission

Test Standard:	Part 15.207, RSS Gen	Mode:	N/A
Frequency Range:	0.15-30MHz	Test Date:	04/15/2026
Line:	Live	Test Engineer	Minoush Niknam
Remark:	Embedded Antenna	Test Result:	Pass



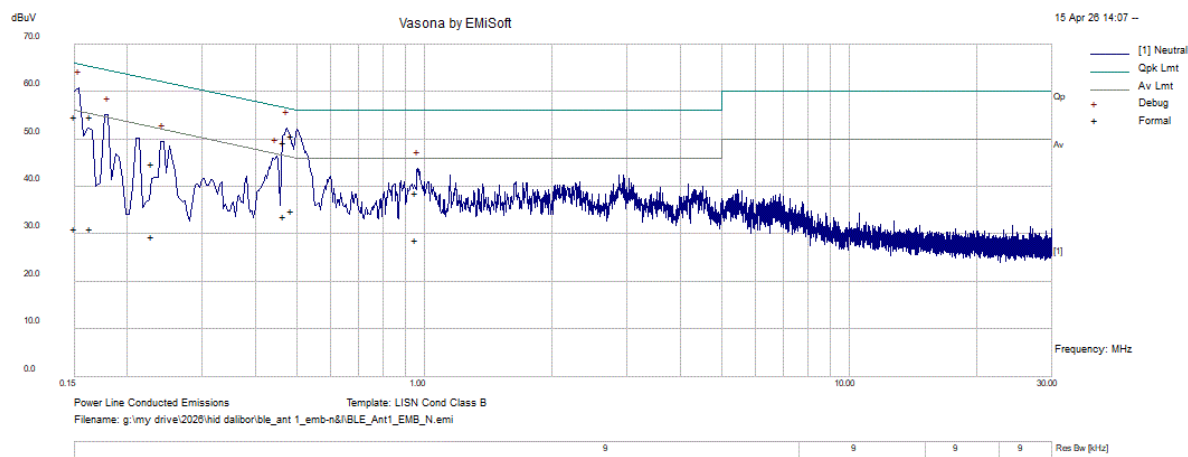
No.	Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Meas. Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
1	0.160	43.8	10	0.2	54.1	Quasi Peak	Live	65.4	-11.4	Pass
2	0.157	45.2	10	0.2	55.5	Quasi Peak	Live	65.6	-10.2	Pass
3	0.195	40.2	10	0.2	50.4	Quasi Peak	Live	63.8	-13.4	Pass
4	0.481	32.7	10	0.1	42.8	Quasi Peak	Live	56.3	-13.5	Pass
5	0.353	28.4	10	0.1	38.6	Quasi Peak	Live	58.9	-20.3	Pass
6	0.236	35.6	10	0.2	45.8	Quasi Peak	Live	62.2	-16.4	Pass
7	0.160	24.5	10	0.2	34.8	Average	Live	55.4	-20.6	Pass
8	0.157	22.8	10	0.2	33.1	Average	Live	55.6	-22.6	Pass
9	0.195	20.4	10	0.2	30.7	Average	Live	53.8	-23.2	Pass
10	0.481	21.3	10	0.1	31.5	Average	Live	46.3	-14.9	Pass
11	0.353	17.9	10	0.1	28.1	Average	Live	48.9	-20.8	Pass
12	0.236	20.7	10	0.2	30.9	Average	Live	52.2	-21.3	Pass

REMARKS:

5. The emission levels of other frequencies were very low against the limit.
6. Factor = Inert loss of LISN
7. Margin value = Emission level - Limit value
8. Emission Level = Raw Value + Cable loss + Factors Value.

Conducted Emission

Test Standard:	Part 15.207, RSS Gen	Mode:	N/A
Frequency Range:	0.15 - 30MHz	Test Date:	04/15/2026
Line:	Neutral	Test Engineer:	Minoush Niknam
Remark:	Embedded Antenna	Test Result:	Pass



No.	Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Meas. Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
1	0.488	40.7	10	0.1	50.8	Quasi Peak	Neutral	56.2	-5.4	Pass
2	0.150	44.6	10	0.2	54.9	Quasi Peak	Neutral	66.0	-11.1	Pass
3	0.163	44.4	10	0.2	54.6	Quasi Peak	Neutral	65.3	-10.6	Pass
4	0.466	39.2	10	0.1	49.3	Quasi Peak	Neutral	56.6	-7.3	Pass
5	0.954	28.7	10	0.1	38.8	Quasi Peak	Neutral	56.0	-17.2	Pass
6	0.228	34.6	10	0.2	44.8	Quasi Peak	Neutral	62.5	-17.7	Pass
7	0.488	24.8	10	0.1	35.0	Average	Neutral	46.2	-11.2	Pass
8	0.150	20.9	10	0.2	31.1	Average	Neutral	56.0	-24.9	Pass
9	0.163	20.9	10	0.2	31.1	Average	Neutral	55.3	-24.1	Pass
10	0.466	23.6	10	0.1	33.7	Average	Neutral	46.6	-12.9	Pass
11	0.954	18.6	10	0.1	28.7	Average	Neutral	46.0	-17.3	Pass
12	0.228	19.3	10	0.2	29.5	Average	Neutral	52.5	-23.1	Pass

REMARKS:

- The emission levels of other frequencies were very low against the limit.
- Factor = Inert loss of LISN
- Margin value = Emission level - Limit value
- Emission Level = Raw Value + Cable loss + Factors Value.

8 EUT Photos

Please see appendix

- External photos
- Internal photos

EUT Setup Photos

Please see appendix

- Setup Photos

9 Test Instrument List

Equipment	Manufacturer	Model	Instrument Number	Cal. Date	Cal. Due
Semi-Anechoic Chamber	ETS-Lindgren	10M	VL001	06/19/2025	06/19/2026
Shielding Control Room	ETS-Lindgren	Series 81	VL006	N/A1)	N/A 1)
Spectrum Analyzer	Keysight	N9020A	MY50110074	06/15/2025	06/15/2026
Spectrum Analyzer (9kHz-43GHz)	Anritsu	MS2830A	6201145210	06/16/2025	06/16/2026
EMC Test Receiver	R&S	ESL6	100230	07/19/2025	07/19/2026
LISN (9KHz – 30MHz)	EMCO	3816/2	9705-1066	07/21/2025	07/21/2026
Bi-Log Antenna	ETS-Lindgren	3142E	217921	07/19/2025	07/19/2026
Horn Antenna (1-18GHz)	Electro-Metrics	EM-6961	6292	07/21/2025	07/21/2026
Horn Antenna (18-40GHz)	Com-Power	AH-840	101109	07/21/2025	07/21/2026
Preamplifier	RF Bay, Inc.	LPA-10-20	11180621	07/16/2025	07/16/2026
True RMS Multi-meter	UNI-T	UT181A	C173014829	N/A 2)	N/A 2)
Temp / Humidity / Pressure Meter	PCE Instruments	PCE-THB 40	R062028	N/A 1)	N/A 1)
RF Attenuator	Pasternack	PE7005-3	VL061	N/A1)	N/A 1)
EM Center Control	ETS-Lindgren	7006-001	160136	N/A1)	N/A 1)
Turn Table	ETS-Lindgren	2181-3.03	VL002	N/A1)	N/A1)
Boresight Antenna Tower	ETS-Lindgren	2171B	VL003	N/A1)	N/A1)
Loop Antenna (9k-30MHz)	Com-Power	AL-130	121012	07/17/2025	07/17/2026
RE test cable (below 6GHz)	Vista	RE-6GHz-01	RE-6GHz-01	07/16/2025	07/16/2026
RE test cable (1-18GHz)	PhaseTrack	II-240	RE-18GHz-01	07/16/2025	07/16/2026
RE test cable (>18GHz)	Sucoflex	104	344903/4	07/16/2025	07/16/2026
Pulse limiter	Com-Power	LIT-930A	531727	07/16/2025	07/16/2026
CE test cable #1	FIRST RF	FRF-C-1002-001	CE-6GHz-01	07/16/2025	07/16/2026
CE test cable#2	FIRST RF	FRF-C-1002-001	CE-6GHz-02	07/16/2025	07/16/2026
Agilent Signal Generator	MXG N5182A	N5182A	US47080548	07/15/2025	07/15/2026
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL052	N/A1)	N/A1)
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL053	N/A1)	N/A1)
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL054	N/A1)	N/A1)
Power Splitter/Combiner	Mini-Circuits	ZFSC-2-9G+	VL055	N/A1)	N/A1)

Note:

- 1) This equipment is not for measurement purpose and only require functional verification. Calibration is not required.
- 2) This equipment is part of test system that to be calibrated as a system. It's verified together with the test system prior to testing.

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