

TEST REPORT

FCC Test for K44431500
Class II Permissive Change

APPLICANT
JVCKENWOOD Corporation

REPORT NO.
HCT-RF-2602-FC002

DATE OF ISSUE
February 12, 2026

Tested by
Jae Ryang Do



Technical Manager
Jong Seok Lee



HCT CO., LTD.
BongJai Huh
BongJai Huh / CEO



HCT CO.,LTD.

2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Tel. +82 31 645 6300 Fax. +82 31 645 6401

TEST RESULT

REPORT NO.

HCT-RF-2602-FC002

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Applicant

JVCKENWOOD Corporation

3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan

Product Name
FCC Model Name

UHF DIGITAL TRANSCEIVER

NX-5300-K2, NX-5300-K3, NX-5300-F2, NX-5300-F3, TK-5330-F2, TK-5330-F3,
VP5330-F2, VP5330-F3, VP6330-F2, VP6330-F3, NX-5300S-K2, NX-5300S-K3

FCC ID

K44431500

Date of Test

January 07, 2026 ~ February 10, 2026

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing Lab

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

Test Standard Used

FCC Rule Part(s): §2, §22, §74, §90

Test Results

PASS

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	February 12, 2026	Initial Release

Notice

Content

The measurements shown in this report were made in accordance with the procedures specified in CFR47 section §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998,21 U.S. C.853(a)

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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1. GENERAL INFORMATION

Manufacturer:	JVCKENWOOD Corporation
Address:	3-12, Moriyacho, Kanagawa-ku, Yokohama-shi, Kanagawa, 221-0022, Japan
FCC ID:	K44431500
EUT Type:	UHF DIGITAL TRANSCEIVER

2. EUT DESCRIPTION

Power Supply Voltage	DC 7.5V
Output Power	5 W (Power output continuously variable to 1 W)
Channel Bandwidth	25kHz / 12.5kHz / 6.25kHz
Operating Temperature	-30 °C ~ +60 °C
Frequency Range	450 MHz - 512 MHz (25kHz: 470 MHz - 512 MHz)

3. INTRODUCTION

3.1. TEST METHODOLOGY

TIA-603-E dated March 2016 entitled "Land Mobile FM or PM Communications Equipment Measurement and Performance Standards" were used in the measurement.

3.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

3.3. TEST FACILITY

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea. The site is constructed in conformance with the requirements of ANSI C63.4-2014 and CISPR Publication 22.

Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea.

Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

3.4. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to ANSI/USEMCSC C63.2-2023, "American National Standard for Specifications of Electromagnetic Interference and Field Strength Measuring Instrumentation in the Frequency Range 9 kHz to 40 GHz".

3.5 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting is programmed.

4. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014.

All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded Uncertainty ($\pm$ dB)
Emission Mask	0.70 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.54 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.80 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.86 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.44 (Confidence level about 95 %, $k=2$)

5. SUMMARY TEST OF RESULTS

Test Requirement	FCC Part Section(s)	Test Condition	Test Result	Status
Carrier RF Output Power	§2.1046, §22.565, §74.461, §90.205	Conducted	PASS	C ^{Note3, 4}
Unwanted Emissions	§2.1051, §22.359, §74.462, §74.535, §90.210		PASS	NT ^{Note2}
99% Bandwidth	N/A		PASS	NT ^{Note2}
Carrier Frequency Stability	§2.1055, §22.355, §74.464, §90.213(a)		PASS	NT ^{Note2}
Audio Frequency Response	§2.1047(a)		PASS	NT ^{Note2}
Audio Low Pass Filter	§2.1047(a)		PASS	NT ^{Note2}
Modulation Limiting	§2.1047(b), §74.463,		PASS	NT ^{Note2}
Transient Frequency Behavior	§74.462, §90.214		PASS	NT ^{Note2}
Emission Mask	§2.1049, §22.359, §74.462, §74.535, §90.210	Radiated	PASS	C ^{Note3, 4}
Field Strength of Spurious Radiation	§2.1053, §22.359, §74.462, §74.535, §90.210		PASS	C ^{Note3, 4}

Note:

1. C = Comply, NT = Not Tested, NA = Not Applicable, NC = Not Comply
2. The C2PC models are electrically identical to the original models. therefore, only selected test requirement were spot checked.
3. The data from that application has been verified through worst-case spot checks to demonstrate the device compliance, as shown in the test results in Section 8.

Please refer to the worst-case below.

Worst-case

- 1) Carrier RF Output Power:
 - Type of emission: 8K30F1E, 8K30F1D, 8K30F7W
 - Channel Bandwidth: 12.5 kHz
 - Frequency: 511.95 MHz
- 2) Emission Mask:
 - Type of emission: 11K0F3E
 - Channel Bandwidth: 12.5 kHz
 - Frequency: 511.95 MHz
- 3) Field Strength of Spurious Radiation:
 - Type of emission: **11K0F3E**
 - Channel Bandwidth: 12.5 kHz
 - Frequency: 511.95 MHz
4. The output power was confirmed to be within the tune-up range prior to the RSE spot checks.
This confirms that the digital circuit changes have no adverse effect on the original compliance data.
5. The NX-5300-K3 model was tested among various models.
6. The decision rule applies 'simple acceptance'

6. TEST LIMIT

Test Requirement	FCC
Carrier RF Output Power	Varies
Unwanted Emissions	6.25 kHz: $55 + 10 \log (P)$ dB 12.5 kHz: $50 + 10 \log (P)$ dB 25 kHz: $43 + 10 \log (P)$ dB
99% Bandwidth	N/A
Carrier Frequency Stability	6.25 kHz = 1 ppm 12.5 kHz = 2.5 ppm 25 kHz = 5 ppm
Audio Frequency Response	Varies
Audio Low Pass Filter	
Modulation Limiting	25 kHz = 5 kHz 12.5 kHz = 2.5 kHz
Transient Frequency Behavior	Note ¹
Emission Mask	Emission Mask B, D, E
Field Strength of Spurious Radiation	6.25 kHz: $55 + 10 \log (P)$ dB 12.5 kHz: $50 + 10 \log (P)$ dB 25 kHz: $43 + 10 \log (P)$ dB

Note:
1. Transient Frequency Behavior Limit :

Channel Bandwidth (kHz)	Time Intervals	Maximum Frequency Difference (kHz)	Transient Duration	
			138-174 MHz	406.1-512 MHz
25	t ₁	±25	5	10
	t ₂	±12.5	20	25
	t ₃	±25	5	10
12.5	t ₁	±12.5	5	10
	t ₂	±6.25	20	25
	t ₃	±12.5	5	10
6.25	t ₁	±6.25	5	10
	t ₂	±3.125	20	25
	t ₃	±6.25	5	10

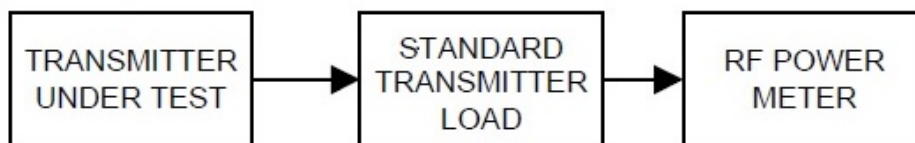
7. DESCRIPTION OF TESTS

7.1 Carrier Output Power

■ DEFINITION

The conducted carrier power output rating for a transmitter is the power available at the output terminals of the transmitter when the output terminals are connected to the standard transmitter load.

■ TEST CONFIGURATION



■ TEST PROCEDURE

According to 2.2.1 in TIA-603-E Standard.

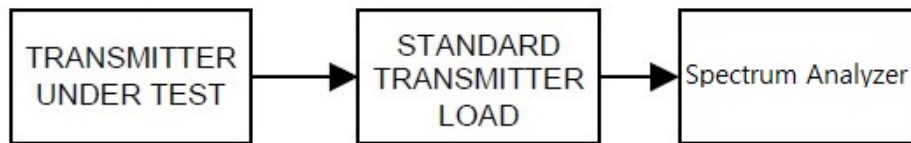
- a) Connect the equipment as illustrated.
- b) Detector: AVG RMS measurement
- c) Measure the transmitter output power during the defined duty cycle
Correct for all losses in the RF path.
- d) The value recorded in step b) is the conducted carrier output power rating.

7.2 Carrier Frequency Stability

■ DEFINITION

The carrier frequency stability is the ability of the transmitter to maintain an assigned carrier frequency.

■ TEST CONFIGURATION



■ TEST PROCEDURE

According to 2.2.2 in TIA-603-E Standard.

- Connect the equipment as illustrated.
- Operate the equipment in standby conditions for 15 minutes before proceeding.
- Record the carrier frequency of the transmitter as MCF_{MHz}
- Calculate the ppm frequency error by the following:

$$\text{ppm error} = ((MCF_{\text{MHz}} / ACF_{\text{MHz}}) - 1) \times 10^6$$

where

MCF_{MHz} is the Measured Carrier Frequency in MHz

ACF_{MHz} is the Assigned Carrier Frequency in MHz

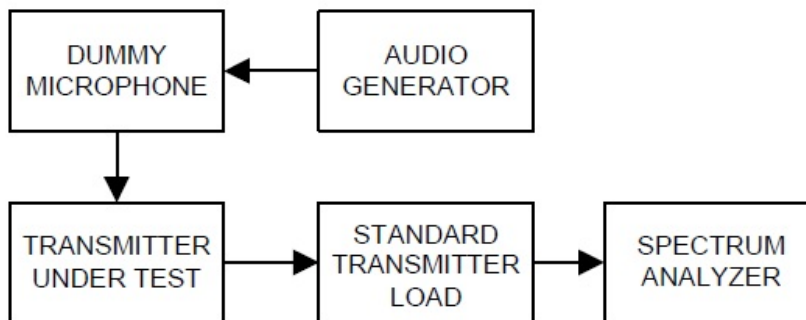
- The value recorded in step d) is the carrier frequency stability.

7.3 Occupied Bandwidth

■ DEFINITION

The transmitter sideband spectrum denotes the sideband power produced at a discrete frequency separation from the carrier up to the test bandwidth (see TIA-603-E Section 1.3.4.4) due to all sources of unwanted noise within the transmitter in a modulated condition.

■ TEST CONFIGURATION



■ TEST PROCEDURE

According to TIA-603-E Section 2.2.11.2 / RSS-119 Section 5.5

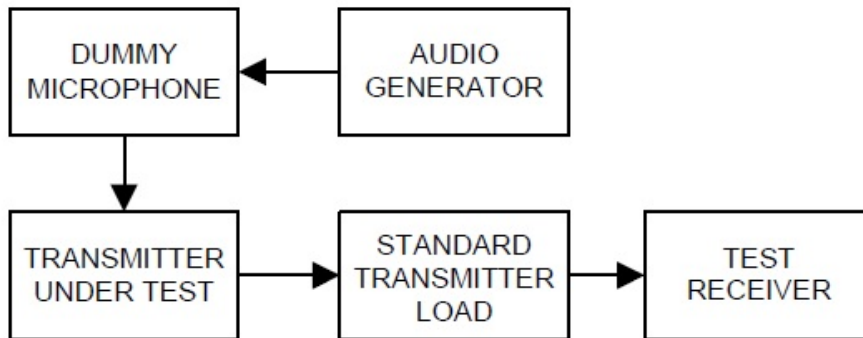
- a) For EUT supporting audio modulation, the audio signal generator was adjusted to the frequency of maximum response and with output level set for +/- 2.5 kHz deviation (or 50 % modulation). (FM modulation).
- b) With level constant, the signal level was increased 16 dB.
- c) For EUT supporting digital modulation, the digital modulation mode was operated to its maximum extent.
- d) Adjust the spectrum analyzer for the following setting:
 - 1) RBW : 100Hz (Authorized Band 6 kHz),
100Hz (Authorized Band 11.25 kHz),
300Hz (Authorized Band 20 kHz)
 - 2) VBW : Video Bandwidth at least 10 times the resolution bandwidth.
 - 4) Sweep Speed : Sweep Speed slow enough to maintain measurement calibration.
 - 5) Sampling Time : 10 times
 - 6) Detector Mode = Positive Peak.
- e) The occupied Bandwidth was measured with the Spectrum Analyzer controls set as shown on the test results.

7.4 Modulation Limiting

■ DEFINITION

Modulation limiting is the transmitter circuit's ability to limit the transmitter from producing deviations in excess of a rated system deviation.

■ TEST CONFIGURATION



■ TEST PROCEDURE

According to 2.2.3 in TIA-603-E Standard.

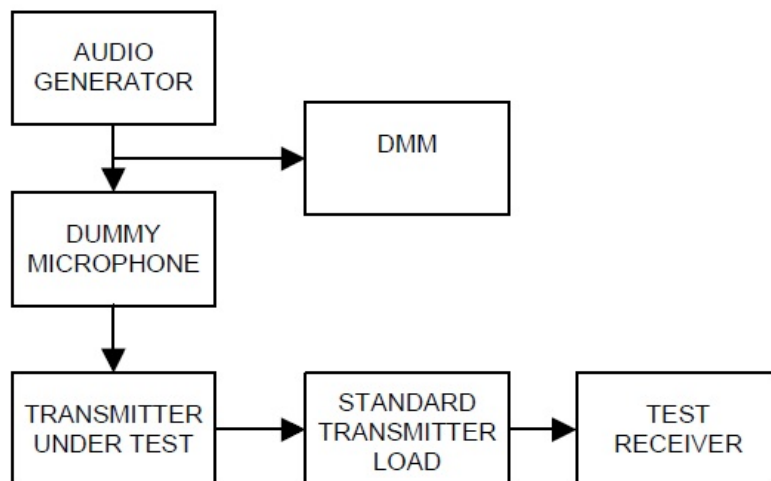
- a) Connect the equipment as illustrated.
- b) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- c) Set the test receiver to measure Peak positive deviation.
Set the audio bandwidth for ≤ 0.25 Hz to $\geq 15,000$ Hz.
Turn the de-emphasis function off.
- d) Apply a 1000 Hz modulating signal to the transmitter from the audio frequency generator, and adjust the level obtain 60% of full rated system deviation.
- e) Increase the level form the audio frequency generator by 20 dB in one step(rise time between the 10% and 90% points shall be 0.1 second maximum).
- f) Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level.
- g) With the level from the audio frequency generator held constant at the level obtained in step e), Slowly vary the audio frequency from 300 Hz to 3000 Hz and observe the steady-state deviation. Record the maximum deviation.
- h) Set the test receiver to measure Peak negative deviation and repeat steps d) through g).
- i) The values recorded in steps g) and h) are the modulation limiting.

7.5 Audio Frequency Response / Audio Low Pass Filter Response

■ DEFINITION

The audio frequency response is the degree of closeness to which the frequency deviation of the transmitter follows a prescribed characteristic.

■ TEST CONFIGURATION



■ TEST PROCEDURE

According to 2.2.6 in TIA-603-E Standard.

- a) Connect the equipment as illustrated.
- b) Set the test receiver to measure Peak positive deviation. Set the audio bandwidth for ≤ 50 Hz to $\geq 15,000$ Hz. Turn the de-emphasis function off.
- c) Set the DMM to measure rms voltage.
- d) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- e) Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
- f) Set the test receiver to measure rms deviation and record the deviation reading.
- g) Record the DMM reading as V_{REF} .
- h) Set the audio frequency generator to the desired test frequency between 300 Hz and 3000 Hz.
- i) Vary the audio frequency generator output level until the deviation reading that was recorded in step f) is obtained.
- j) Record the DMM reading as V_{FREQ} .
- k) Calculate the audio frequency response at the present frequency as:
$$\text{audio frequency response} = 20 \times \log_{10}(V_{FREQ}/V_{REF})$$
- l) Repeat steps h) through k) for all the desired test frequencies.

Note

Audio Filter of the above result is substituted with the same structure as Audio Frequency Response.

On the transmission condition below 3kHz, Transceiver shows pre-emphasis condition of transmission function.

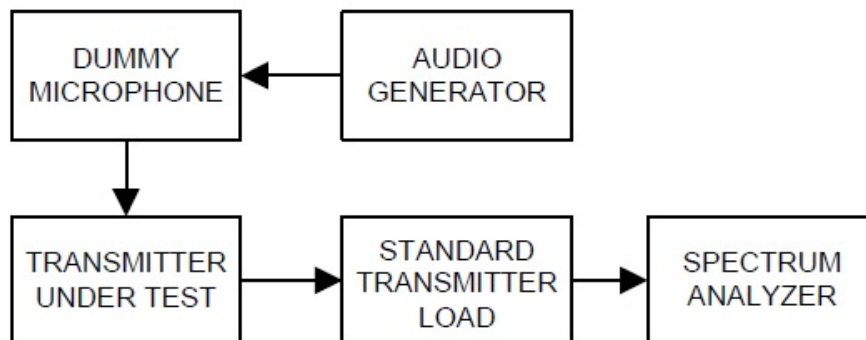
On the transmission condition above 3kHz, Transceiver shows Audio Low Pass Filter.

7.6 Emission Mask

■ DEFINITION

The transmitter sideband spectrum denotes the sideband power produced at a discrete frequency separation from the carrier up to the test bandwidth (see 1.3.4.4) due to all sources of unwanted noise within the transmitter in a modulated condition.

■ TEST CONFIGURATION



TEST PROCEDURE

According to 2.2.11 in TIA-603-E Standard.

- a) Connect the equipment as illustrated. Use the table to determine the spectrum analyzer resolution bandwidth:

Spectrum Analyzer Resolution Bandwidth			
Frequency Band (MHz)	Mask for Equipment with Audio Low Pass Filter	Mask for Equipment without Low Pass Filter	Spectrum Analyzer Resolution Bandwidth (Hz)
25-50	B	C	300
72-76	B	C	300
138-174	NTIA	NTIA	300
150-174	B	C	300
150-174	D or E	D or E	100
406-420	NTIA	NTIA	300
421-512	B	C	300
421-512	D or E	D or E	100
806-821/851-866	B or EA	G or EA	300
821-824/866-869	B	H	300
896-901/935-940	I	J	300

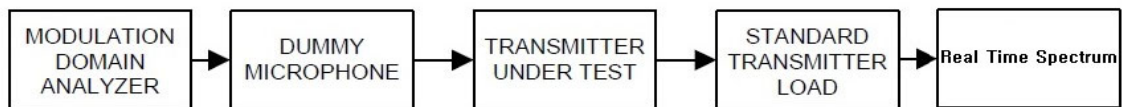
- b) Adjust the spectrum analyzer for the following settings:
 - 1) Resolution Bandwidth per the above table
 - 2) Video Bandwidth at least 10 times the resolution bandwidth.
 - 3) Sweep Speed slow enough to maintain measurement calibration.
 - 4) Detector Mode = Positive Peak.
 - 5) Span that will allow proper viewing of the test bandwidth (see 1.3.4.4).
- c) Set the center frequency of the spectrum analyzer to the assigned transmitter frequency. Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line.
This is the 0 dB reference for the measurement.
- d) Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation. The input level shall be established at the frequency of maximum response of the audio modulating circuit. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.
- e) Record the resulting spectrum analyzer presentation of the emission level with an on-line recording device or in a photograph. It is recommended that the emission limit (as given in 3.2.11) be drawn on the plotted graph or photograph. The spectrum analyzer presentation is the sideband spectrum.

7.7 Transient Frequency Behavior

■ DEFINITION

Transient frequency behavior is a measure of the difference, as a function in time, of the actual transmitter frequency to the assigned transmitter frequency when the transmitted RF output power is switched on or off.

■ TEST CONFIGURATION



■ TEST PROCEDURE

According to 2.2.19 in TIA-603-E Standard.

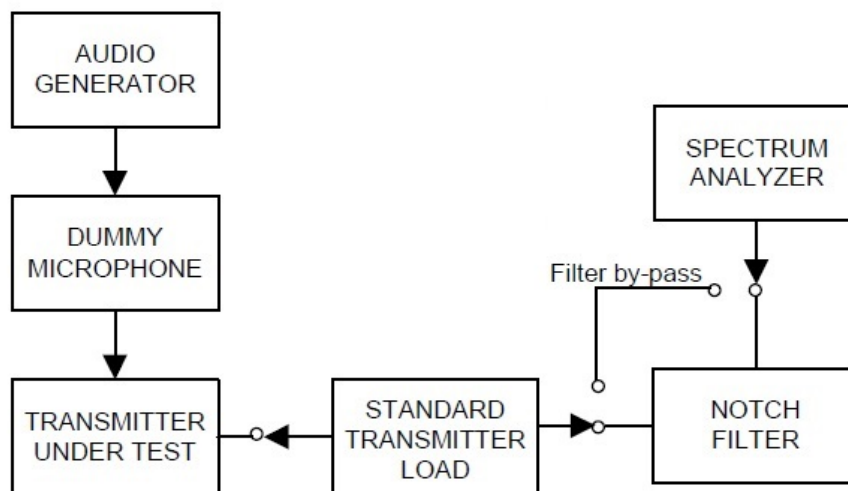
- a) Connect the equipment as illustrated.
- b) Connect the output of the standard transmitter load to the RF power meter.
Supply sufficient attenuation via the RF attenuator to provide a level that is approximately 40 dB below the maximum allowable input to the modulation domain analyzer.
- c) Unkey the transmitter.
- d) Disconnect the RF power meter and connect the modulation domain analyzer in its place.
Set the envelope trigger of the modulation domain analyzer to the minimum level that will trigger when the transmitter is keyed.
- e) Reduce the attenuation of the RF attenuator so that the input to the modulation domain analyzer is increased by 30 dB when the transmitter is keyed.
- f) Set the modulation domain analyzer to trigger on the rising edge of the waveform in order to capture a single-shot turn-on of the transmitter signal.
- g) Adjust the display of the modulation domain analyzer for proper viewing of the transmitter transient behavior. Set the time base reference to the left for observing the transmitter turn-on transient.
- h) Key the transmitter.
- i) Observe the stored display of the modulation domain analyzer.
The signal trace shall be maintained within the allowable limits during the periods t_1 and t_2 , and shall also remain within limits following t_2 .
- j) Adjust the modulation domain analyzer to trigger on the falling edge of the transmitter waveform in order to capture a single-shot turn-off transient of the transmitter signal.
- k) Adjust the display of the modulation domain analyzer for proper viewing of the transmitter transient behavior. Set the time base reference to the right for observing the transmitter turn-off transient.
- l) Unkey the transmitter.
- m) Observe the stored display of the modulation domain analyzer. The signal trace shall be maintained within the allowable limits during the period t_3 .

7.8 Unwanted Emissions : Conducted Spurious Emission

■ DEFINITION

Conducted spurious emissions are emissions at the antenna terminals on a frequency or frequencies that are outside a band sufficient to ensure transmission of information of required quality for the class of communication desired.

■ TEST CONFIGURATION



■ TEST PROCEDURE

According to 2.2.13 in TIA-603-E Standard.

- a) Connect the equipment as illustrated, with the notch filter by-passed.
- b) Set the center frequency of the spectrum analyzer to the assigned transmitter frequency, key the transmitter, and set the level of the carrier to the full scale reference line.
- c) Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation. The input level shall be established at the frequency of maximum response of the audio modulation circuit.
- d) Adjust the spectrum analyzer for the following settings:
 - 1) Resolution Bandwidth = 10 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1 GHz.
 - 2) Video Bandwidth ≥ 3 times the resolution bandwidth.
 - 3) Sweep Speed ≤ 2000 Hz per second.
 - 4) Detector Mode = mean or average power.
- e) Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from:
 - 1) The lowest radio frequency generated in the equipment to the carrier frequency minus the test bandwidth (see 1.3.4.4).
 - 2) The carrier frequency plus the test bandwidth to a frequency less than 2 times the carrier frequency.
- f) Record the frequencies and levels of spurious emissions from step e).
- g) Unkey the transmitter. Replace the transmitter under test with the signal generator and adjust the signal level to reproduce the frequencies and levels of every spurious emission recorded in step f). Record the signal generator levels in dBm.
- h) Insert the notch filter.
- i) Adjust the spectrum analyzer for the following settings:
 - 1) Resolution Bandwidth = 10 kHz for spurious emissions below 1 GHz, and 1 MHz for spurious emissions above 1 GHz.
 - 2) Video Bandwidth ≥ 3 times the resolution bandwidth.
 - 3) Sweep Speed ≤ 2000 Hz per second.
 - 4) Detector Mode = mean or average power.
- j) Key the transmitter. Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from a frequency equal to 2 times the carrier frequency and to the tenth harmonic of the carrier frequency.

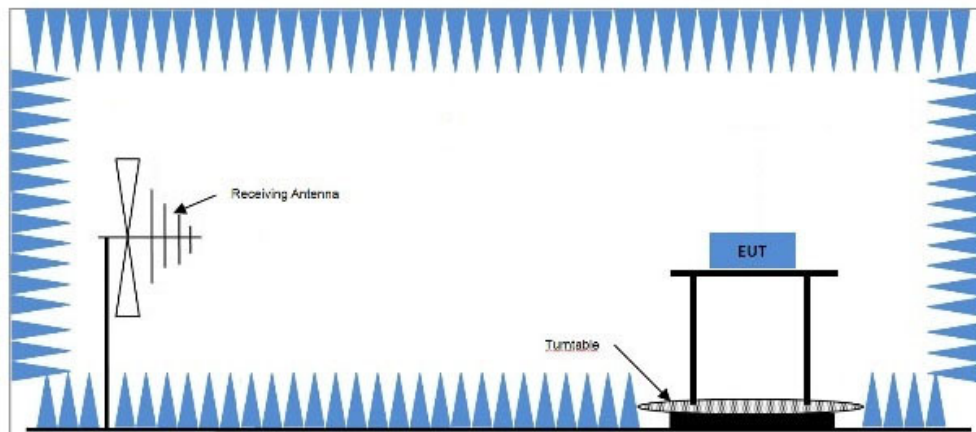
7.9 Unwanted Emissions : Radiated Spurious Emission

■ DEFINITION

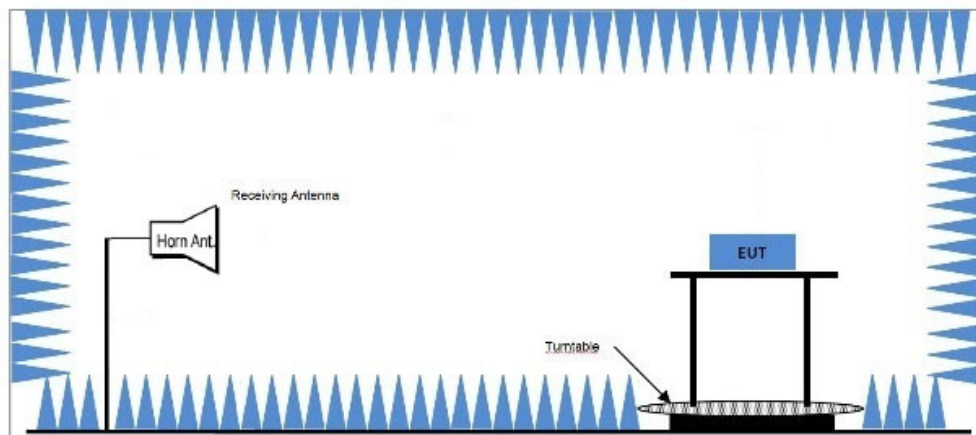
Radiated spurious emissions are emissions from the equipment when transmitting into a non-radiating load on a frequency or frequencies that are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communications desired.

■ TEST CONFIGURATION

Below 1 GHz



Above 1 GHz



■ TEST PROCEDURE

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method according to ANSI/TIA-603E-2016.

- a) The Resolution Bandwidth for scanning Radiated Emission below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz.
 - b) Detector mode is peak.
 - c) In the fully-anechoic chamber, setup as illustrated above the DUT placed on the 2.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization.
The "Read Value" is the spectrum reading the maximum power value.
 - d) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization to find the maximum radiation power.
Record the power level of maximum radiation power from spectrum.
So, the measured Factor value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) Result(dBm) = "Reading" + Factor

8. TEST RESULT

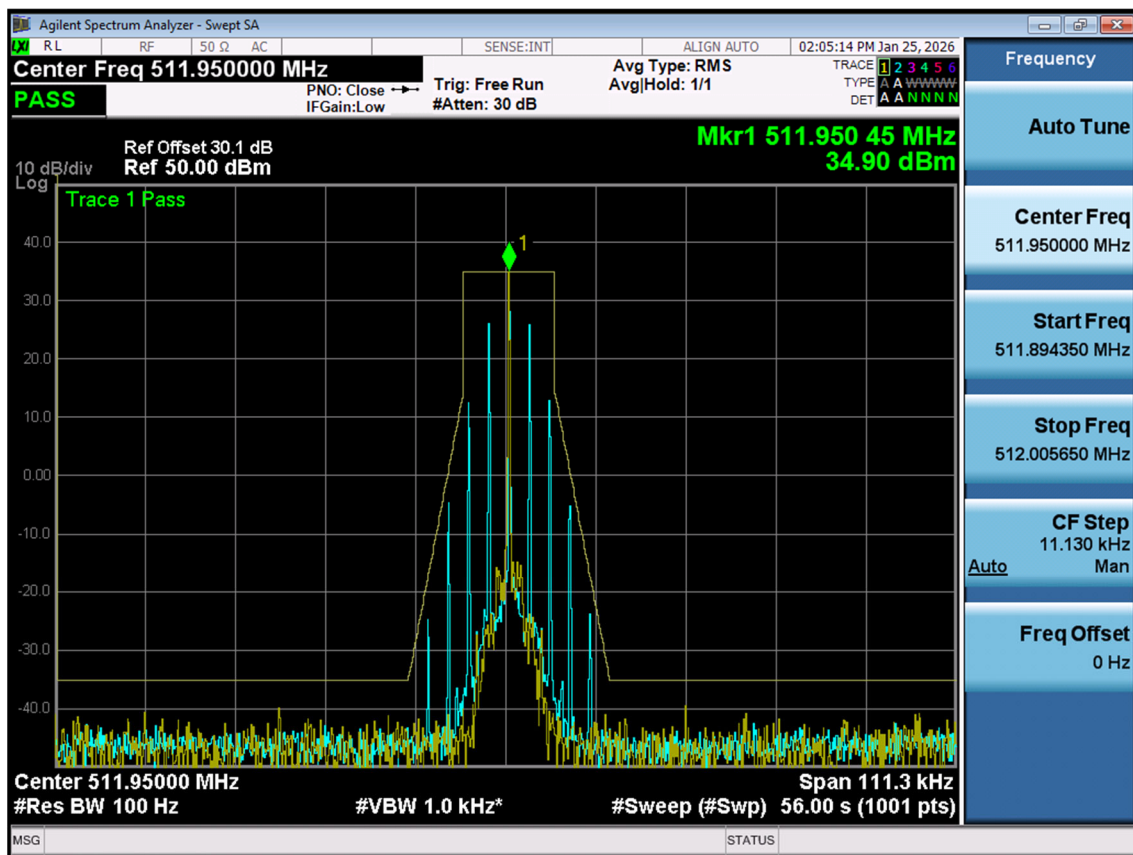
8.1 Carrier Output Power

■ MODE:	Digital
■ TYPE OF EMISSION:	8K30F1E,8K30F1D,8K30F7W
■ CHANNEL SPACING:	12.5 kHz
■ FREQUENCY (MHz)::	511.95

Test Result			
Original		C2PC	
dBm	W	dBm	W
37.00	5.01	36.79	4.78

8.2 Emission Mask

☒ MODE: Analog
☒ TYPE OF EMISSION: 11K0F3E
☒ CHANNEL SPACING: 12.5 kHz
☒ FREQUENCY (MHz):: 511.95



8.3 Unwanted Emissions: Radiated Spurious Emission

■ MODE: Analog
■ TYPE OF EMISSION: 11K0F3E
■ Channel Bandwidth: 12.5 KHz
■ FREQUENCY (MHz):: 511.95

Measured Frequency (MHz)	Reading [dBm]	Factor (dB)	Pol	Result (dBm)	Limit (dBm)	Margin (dB)
1535.85	-25.96	-6.81	H	-32.77	-20.00	12.77

8.4 Simultaneous transmission

Worst-case

Simultaneous transmission Scenario	UHF	Bluetooth	Bluetooth LE	Worst-case Scenario
WWAN + Bluetooth	on	on		
WWAN + Bluetooth LE	on		on	O

Test Configuration	LMR	Bluetooth LE
Frequency (MHz)	511.95	2440
Mode	11K0F3E	1 Mbps

Note

1. The worst-case configuration was selected based on the result with the minimum RSE margin for each test (**UHF**, Bluetooth, and Bluetooth LE).
2. Simultaneous transmission testing was performed in a Semi-Anechoic Chamber (SAC).
3. No intermodulation signals were detected during the simultaneous transmission testing.
4. Spurious emissions from the **UHF** and Bluetooth LE carriers were tested in accordance with their respective FCC regulations.

All results comply with the applicable limits, as summarized in the table below.

Bluetooth LE

Frequency [MHz]	Measured value [dBμV]	Duty Cycle Factor [dB]	C.L.+A.F.+D.F.-A.G. [dB/m]	ANT. POL [H/V]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Measurement Type
4 880	42.61	7.69	3.75	V	46.36	73.98	27.62	PK
4 880	30.76	7.69	3.75	V	42.20	53.98	11.78	AV

UHF

Frequency [MHz]	Measured value [dBμV]	C.L.+A.F. [dB/m]	ANT. POL [H/V]	Total [dBμV/m]	Result [dBm]	Limit [dBm]	Margin [dB]
1535.85	30.48	33.15	V	63.63	-31.57	-20.00	11.57

9. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Audio Analyzer	8903B	Hewlett Packard	3413A13913	2026-08-18	Annual
Modulation Analyzer	8901B	Hewlett Packard	2406A00169	2026-07-04	Annual
SMA-50-010	5930	HUBER+SUHNER	56	2026-09-16	Annual
Horn Antenna	BBHA 9120D	Schwarzbeck	03197	2026-11-28	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	03201	2026-11-28	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	2027-03-05	Biennial
Hybrid Antenna	VULB9168	Schwarzbeck	760	2027-02-17	Biennial
RF Switching System	1G HPF + LNA	HCT CO., LTD.,	F2L2	2026-12-01	Annual
TUNABLE NOTCH FILTER	220NFNM	EAGLE	H00564-7	2026-09-22	Annual
TUNABLE NOTCH FILTER	220NFNM	EAGLE	H00564-8	2026-09-22	Annual
TUNABLE NOTCH FILTER	220NFNM	EAGLE	H00564-9	2026-09-22	Annual
TUNABLE NOTCH FILTER	220NFNM	EAGLE	H00564-10	2026-09-22	Annual
SIGNAL GENERATOR	SMB100A	ROHDE & SCHWARZ	177633	2026-07-22	Annual
Spectrum Analyzer	FSV40	ROHDE & SCHWARZ	101733	2026-09-17	Annual
Spectrum Analyzer	N9020A	Agilent	MY52090906	2026-04-14	Annual
DC POWER SUPPLY	E3632A	Agilent	MY50360067	2027-01-27	Annual
Controller (Antenna mast & Turn Table)	CO3000	Innco system	CO3000-4p	N/A	N/A
Antenna Position Tower	MA4640/800-XP-EP	Innco system	S3AM	2026-07-25	Annual
Turn Table	DS1500-S-1t	Innco system	N/A	N/A	N/A
Hybrid Antenna	VULB 9168	Schwarzbeck	9168-1135	2026-08-19	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-1191	2027-10-21	Biennial
Amp & Filter Bank Switch Controller	FBSM-01A	TNM system	0	N/A	N/A
RF Switching System	FBSR-03A (3G HPF+LNA)	T&M SYSTEM	S3L1	2026-10-20	Annual
RF Switching System	FBSR-03A (10dB ATT+LNA)	T&M SYSTEM	S3L2	2026-10-20	Annual
RF Switching System	FBSR-03A (7G HPF+LNA)	T&M SYSTEM	S3L3	2026-10-20	Annual
RF Switching System	FBSR-03A (3dB ATT+LNA)	T&M SYSTEM	S3L4	2026-10-20	Annual
Automation Software	FCC WLAN Radiated	HCT CO., LTD.	-	-	-
Power Amplifier	CBL18265035	CERNEX	22966	2026-10-21	Annual
Power Amplifier	CBL26405040	CERNEX	25956	2027-02-09	Annual
Spectrum Analyzer	FSW85	Rohde & Schwarz	101256	2026-10-16	Annual
High Pass Filter	F5_HP5 1.5G	Wainwright Instruments GmbH	F5	2026-05-09	Annual

Note:

1. Equipment whose calibration due date was updated during the test period was not used between the previous due date and the update.

All reported measurements were performed using equipment within valid calibration.

2. Especially, all antenna for measurement is calibrated in accordance with the requirements of ANSI C63.5-2017.

10. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2602-FC002-P