

TEST REPORT

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FCC ID: 2A7VD-H2800

IC: 28789-H2800

HVIN: H2800

Product Name: Govee Monitor Light Bar

Standard(s): 47 CFR Part 15, Subpart C(15.249)

RSS-210 Issue 11, June 25, 2024

RSS-Gen, Issue 5, February 2021 Amendment 2

**ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 +
Errata to C63.10a-2024**

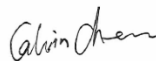
The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2603U18031E-RF-00C

Date Of Issue: 2026/10/8

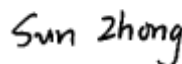
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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan City, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2603U18031E-RF-00C	Original Report	2026/10/8

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Govee Monitor Light Bar
EUT Model:	H2800
Operation Frequency:	24-24.25GHz
Chirp Time[▲]:	300μs
Modulation Type:	FMCW
Rated Input Voltage:	DC 12V from Adapter
Sample Number:	3OX6-2(for Radiated Spurious Emissions Test) 3OX6-17(for AC Line Conducted Emissions Test)
EUT Received Date:	2026/7/1
EUT Received Status:	Good

1.2 Antenna Information Detail ▲:

Antenna Type	input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
Microstrip array	50	24000-24250	3.18
The Method of §15.203 Compliance: ☒ Antenna must be permanently attached to the unit. ☐ Antenna must use a unique type of connector to attach to the EUT. ☐ Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.			

1.3 Accessory Information:

Accessory Description	Manufacturer	Model	Serial Number
AC/DC Adapter	Shenzhen ChengGuo Technology CO.,Ltd	YXTG18US-1201500	Input:100-240Vac 0.8A Max 50/60Hz Output:12.0Vdc 1.5A 18.0W

1.4 Description of Test Configuration

1.4.1 EUT Operation Condition:

The device employs FMCW modulation in the frequency range: 24000MHz-24250MHz.

According to C63.10-2020, for FMCW modulation, measurements should use swept active.

1.4.2 EUT Exercise Software

The system was configured for testing in engineering Mode, the maximum power level tested, which was provided by the manufacturer.

1.4.3 Support Equipment List and Details

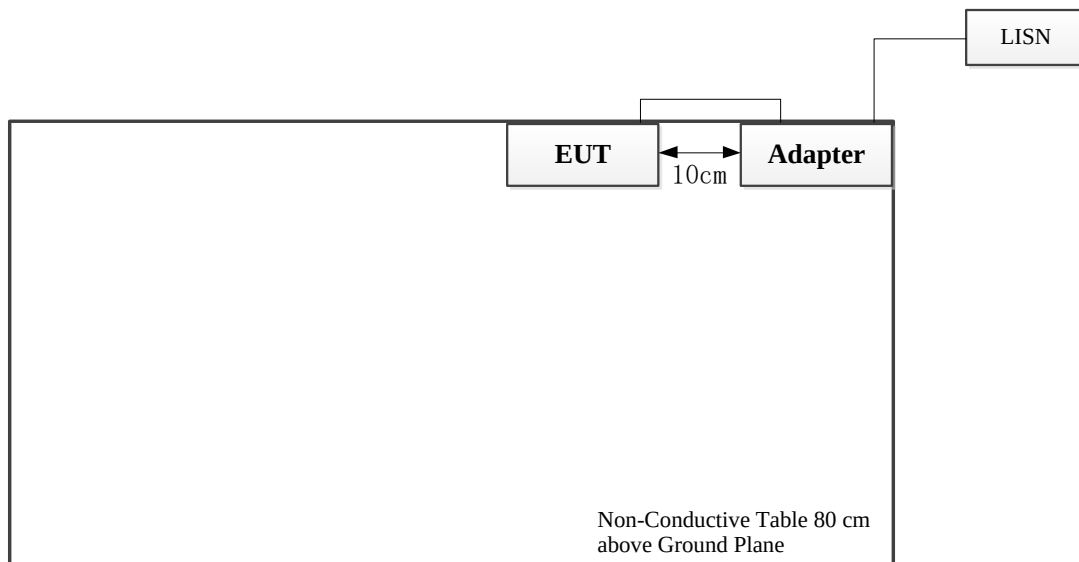
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.4.4 Support Cable List and Details

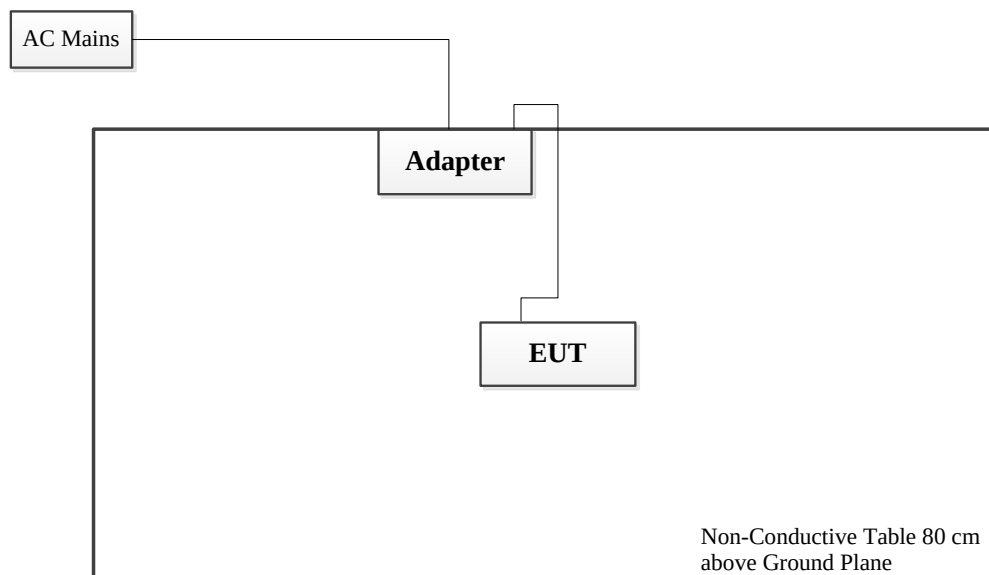
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	1.5	Adapter	EUT

1.4.5 Block Diagram of Test Setup

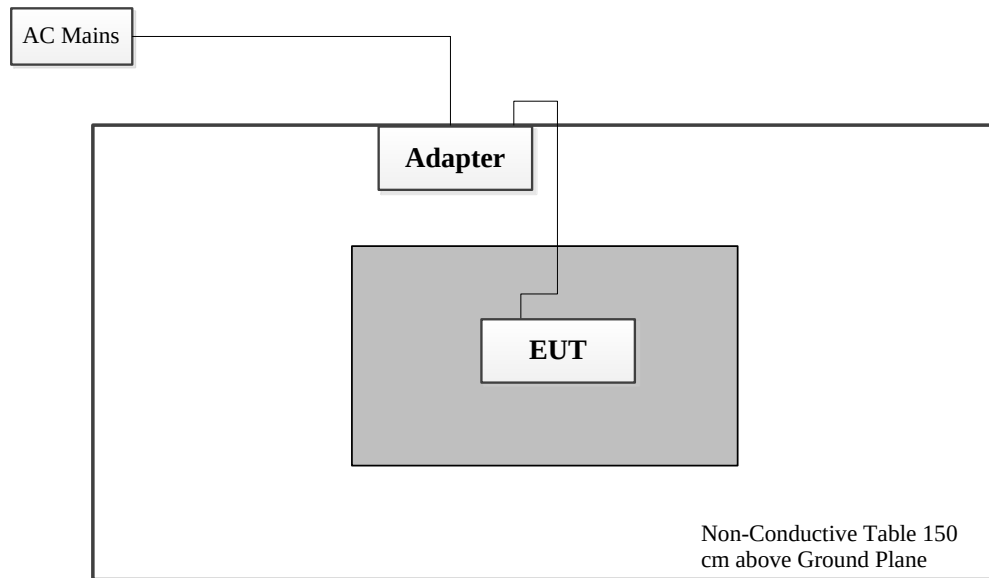
AC line conducted emissions:



Spurious Emissions:
Below 1G:



Above 1G:



1.5 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5\%$
Unwanted Emissions, radiated	9kHz~30MHz: 4.12dB, 30M~200MHz: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB, 18G~26.5G: 5.47 dB, 26.5G~40G: 5.63 dB
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s)/Rule(s)	Description of Test	Result
§15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant
§15.207(a) RSS-Gen Clause 8.8	Conduction Emissions	Compliant
15.205, §15.209, §15.249 RSS-Gen Clause 8.10 RSS-210 Annex B B.10	Radiated Emissions	Compliant
§15.215 (c)	20 dB Bandwidth	Compliant
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC §15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for 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.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	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.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 – AC power-line conducted emissions limits

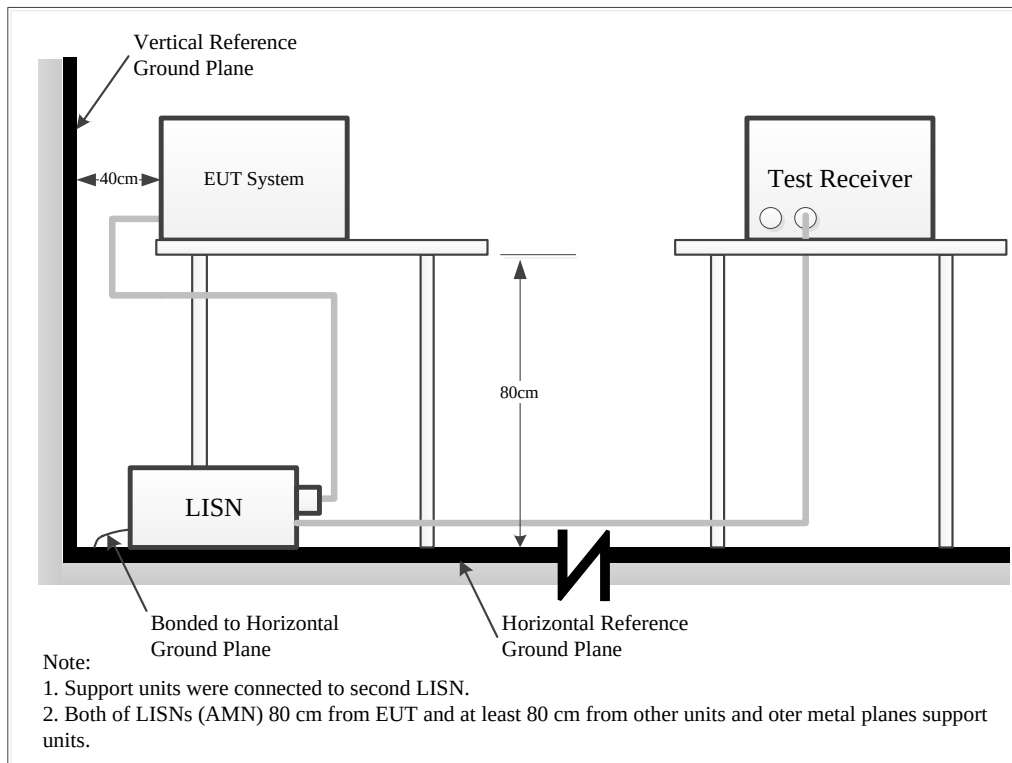
Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

- (a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.
- (b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

3.1.2 EUT Setup



The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207, RSS-Gen limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiated Emissions

3.2.1 Applicable Standard

As per FCC §15.249 (a), except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

As per FCC §15.249 (c), Field strength limits are specified at a distance of 3 meters.

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

RSS-210, Annex B, B.10

Devices operating in the frequency bands listed in table B2 may be used for any application and shall comply with the following requirements:

(a) The field strength of fundamental and harmonic emissions measured at 3 m shall not exceed the limits in table B2.

Table B2: Field strength limits for fundamental and harmonic emissions

Fundamental frequency (MHz)	Field strength (mV/m) of fundamental emissions	Field strength (mV/m) of harmonic emissions
902-928	50	0.5
2400-2483.5	50	0.5
5725-5875	50	0.5
24000-24250	250	2.5

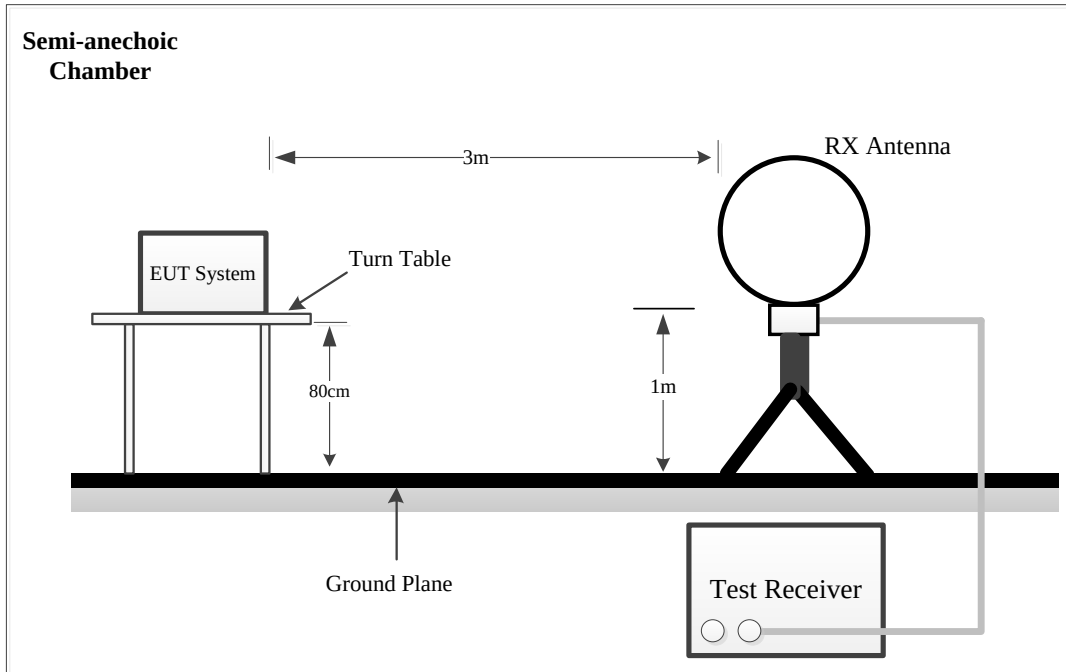
The field strength shall be measured using an average detector, except for the fundamental emission in the frequency band 902-928 MHz, which is based on measurements using a CISPR quasi-peak detector.

(b) Emissions radiated outside of the specified frequency bands, except for harmonic emissions, shall be attenuated by at least 50 dB below the level of the fundamental emission or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

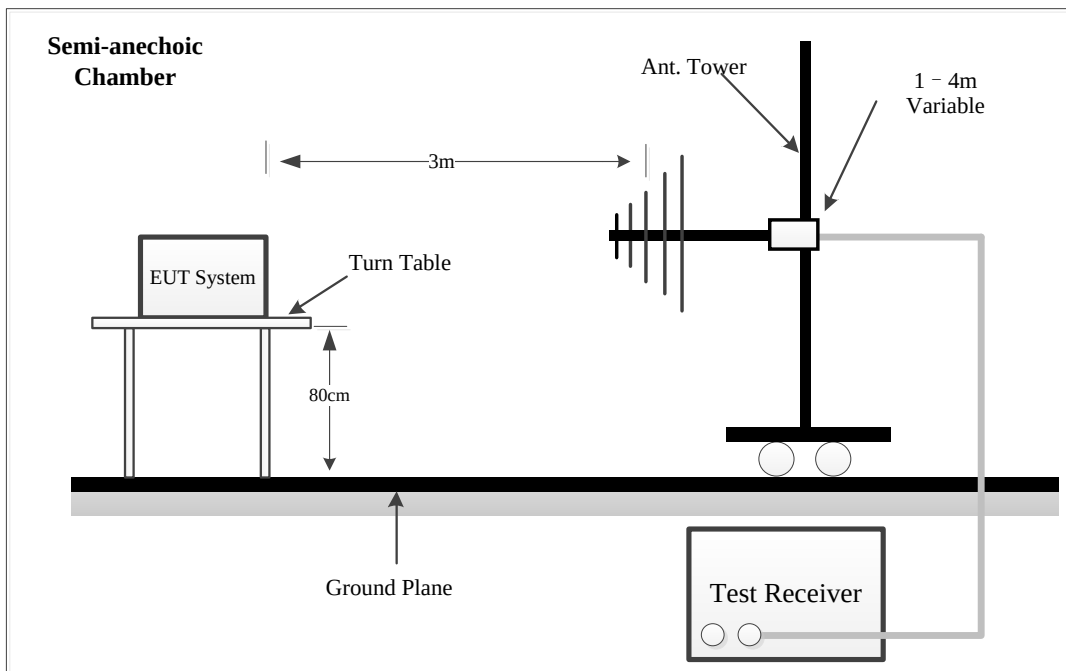
- (c) The provisions of RSS-Gen regarding pulsed operation do not apply to measurements performed in the 902-928 MHz frequency range.

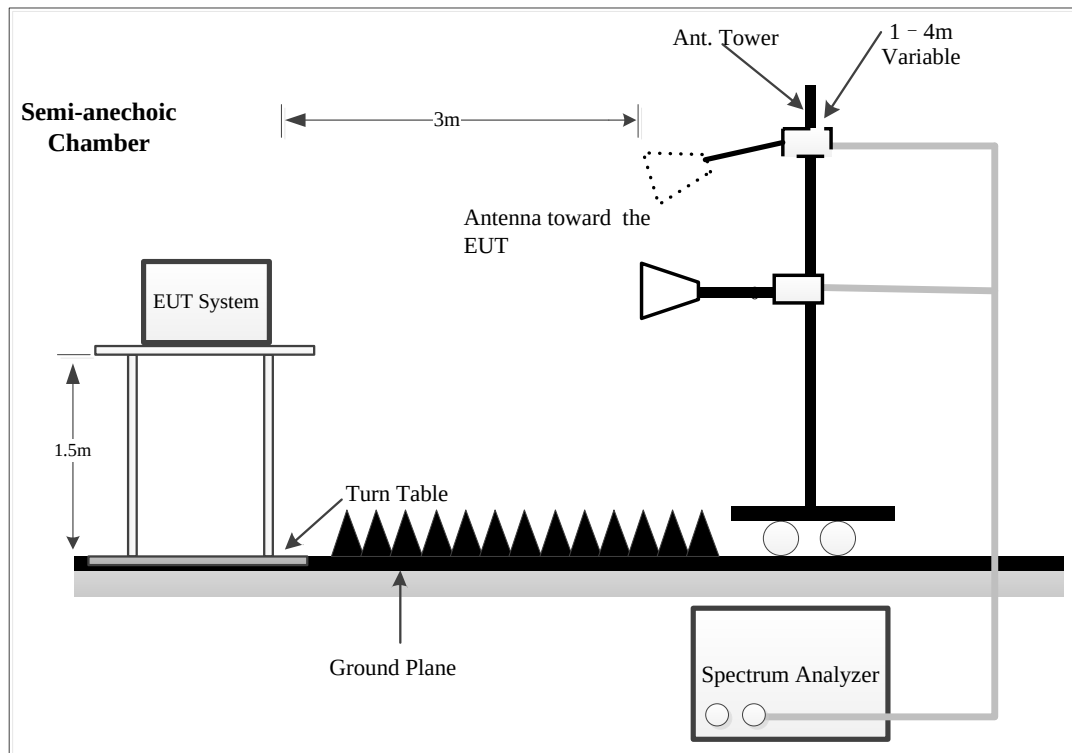
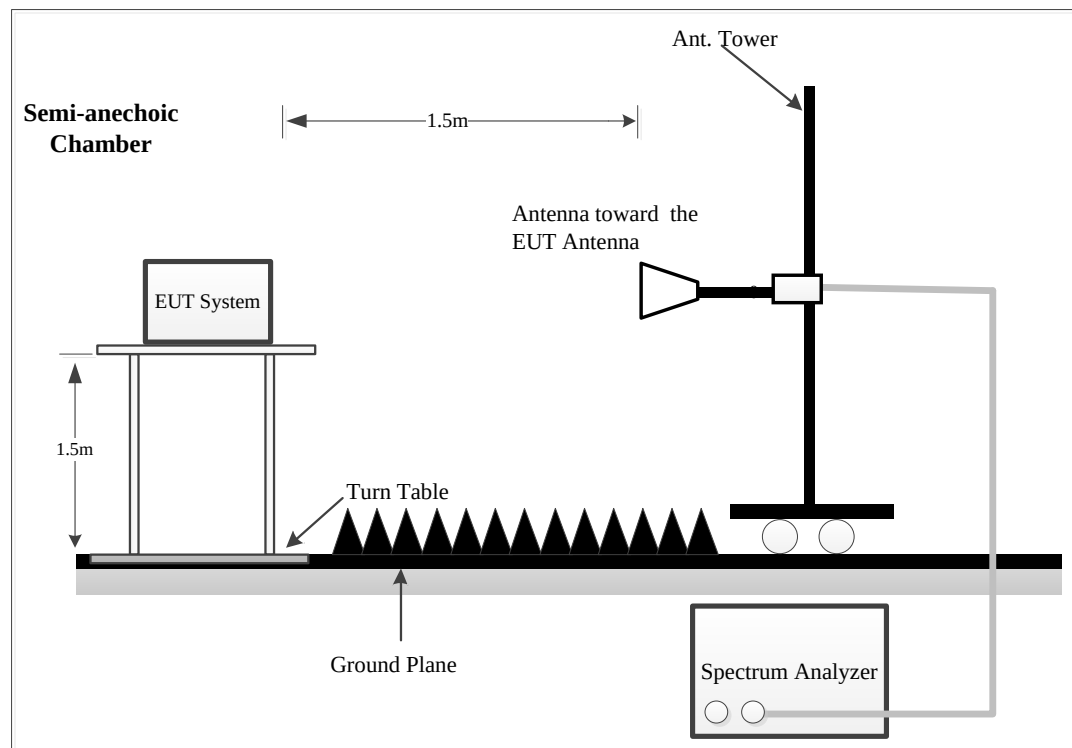
3.2.2 EUT Setup

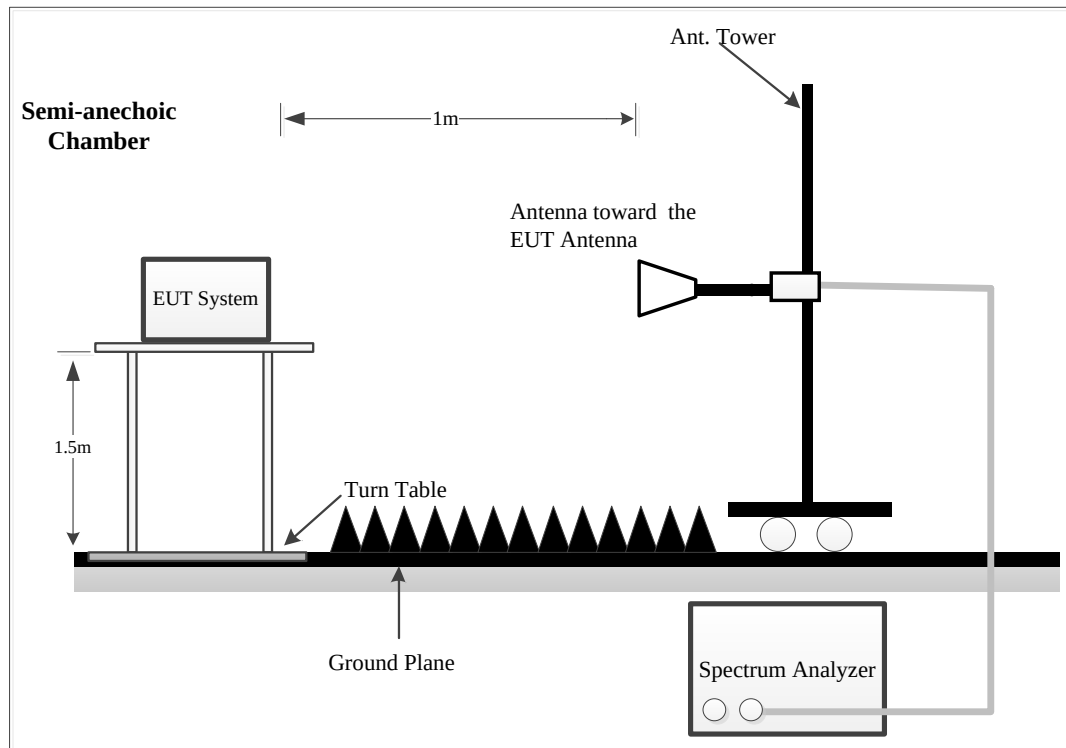
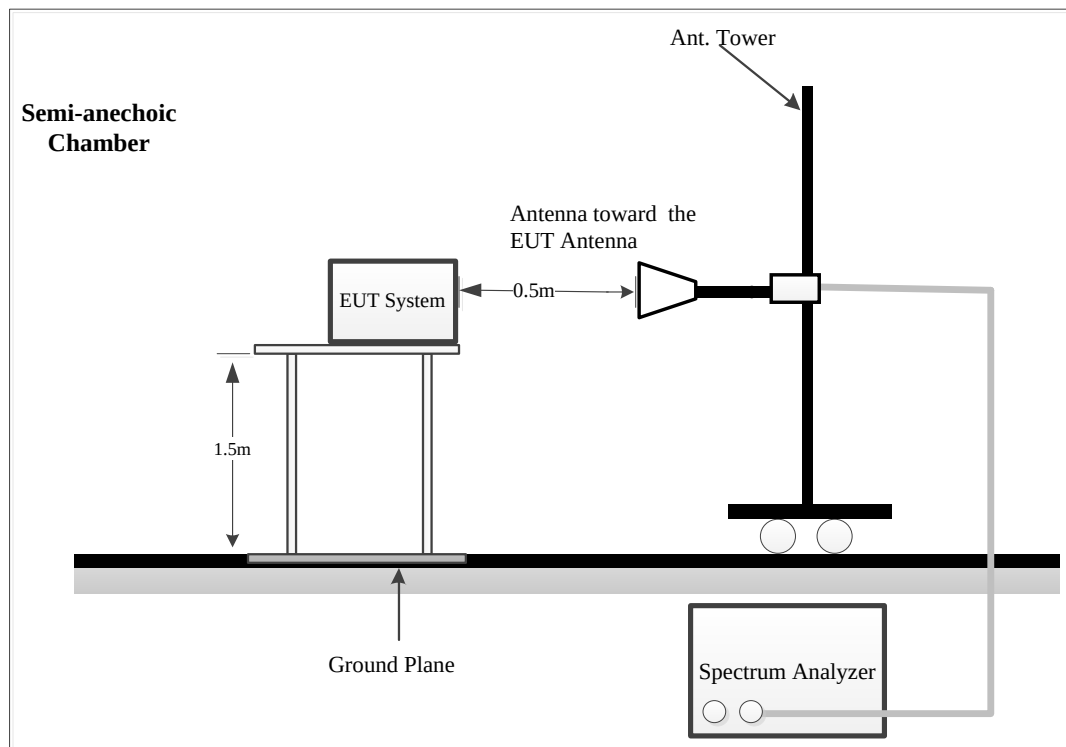
9kHz~30MHz:



30MHz-1GHz:



1-26.5GHz:**26.5~40 GHz:**

40~90 GHz:**90~100 GHz:**

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

For above 26.5GHz: The antenna is scanned around the entire perimeter surface of the EUT, in both horizontal and vertical polarizations, at the distance of 1.5 m from 26.5 GHz to 40 GHz, 1.0 m from 40 GHz to 90 GHz and 0.5 m from 90 GHz to 100 GHz.

The radiated emission test was performed in the 3 meters chamber, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, 15.205, FCC 15.249, RSS-210 and RSS-Gen limits.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 100 GHz.

9kHz-1000MHz:

Frequency Range	Measurement	RBW	Video B/W	IF B/W	Detector
9 kHz-150 kHz	QP/AV	200 Hz	1 kHz	200 Hz	QP/AV
150 kHz-30 MHz	QP/AV	9 kHz	30 kHz	9 kHz	QP/AV
30 MHz-1000 MHz	Peak	120 kHz	500 kHz	/	PK
	QP	/	/	120 kHz	QP

1-40GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	10 Hz	PK

Above 40GHz:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 40GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	3 MHz	AV

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was required in Quasi-peak measurement for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average measurement, peak and Average measurement for frequencies above 1 GHz.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

For 26.5-40GHz:

Test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1.5 m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1.5m]})$ dB= 6 dB.

Above 40GHz:

External harmonic mixers are utilized. The antenna is scanned around the entire perimeter surface of the EUT, in both horizontal and vertical polarizations. The Mixers and it's RF cables is compose a system for calibration, the conversion factor was added into the test Spectrum Analyzer in testing.

The far-field boundary is given in ANSI C63.10-2020:

$$R_m = 2D^2 / \lambda$$

Where:

D is the largest dimension of the antenna aperture in m and

λ is the free-space wavelength in m at the frequency of measurement.

The minimum test distance for the frequency range 40GHz-100GHz determine as below:

Model	Frequency Range (GHz)	Largest Dimension of the Horn Antenna (mm)	Minimum Test Distance R_m (m)
M19RH	40-60	46.3	0.86
M12RH	60-90	30.02	0.54
M08RH	90-140	19.7	0.36

Note: the test distances used were 1.0 m from 40 GHz to 90 GHz, and 0.5 m from 90 GHz to 100GHz, it can be seen that the EUT was always in the Far-field of the Receive Antenna during all Radiated Emissions Tests.

For 40-90GHz:

Test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]}/\text{test distance [1m]})$ dB= 9.54 dB.

For 90-100GHz:

Test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 0.5m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]}/\text{test distance [0.5m]})$ dB=15.56 dB.

3.2.5 Corrected Amplitude & Margin Calculation

$$E_{Log} = 20 \times \log_{10}(E_{Linear})$$

E_{Linear} is the field strength of the emission, in $\mu V/m$

E_{Log} is the field strength of the emission, in dB $\mu V/m$

For 9kHz-30MHz test, test distance is 3m, extrapolation limit shall be calculated using Equation:

$$E_{limit-measure} = E_{limit-Standard} + 40 \times \log_{10} (d_{standard}/d_{measure})$$

For the spurious emission below 30MHz, the limit was convert from dB $\mu A/m$ to dB $\mu V/m$ by adding 51.5 dB.

The basic equation test is as follows:

For Radiated Below 26.5GHz test:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For Radiated 26.5-40 GHz test:

Factor = Antenna Factor + Cable Loss- Distance extrapolation Factor- Amplifier Gain

For FMCW emissions(24-24.25GHz), the procedures in 4.1.5.2.8 and Annex L of C63.10 shall be used.

The chirps correction factor was calculated using the formula in ANSI C63.10-2020/cor 1-2023 Annex L.1:

$$\alpha = \frac{1}{\left(1 + \left[\left(\frac{2 \times \ln(2)}{\pi}\right)^2 \times \left(\frac{BW_{Chirp}}{T_{Chirp} \times RBW^2}\right)^2\right]\right)^{0.25}}$$

where

α is the reduction in amplitude
 BW_{Chirp} is the FMCW Chirp Bandwidth
 T_{Chirp} is the FMCW Chirp Time

Factor = Antenna Factor + Cable Loss- Distance extrapolation Factor - Amplifier Gain

Result = Reading + Factor

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

Above 40GHz

According to C63.10 clause 9.10:

Calculate the maximum field strength of the emission at the measurement distance from the power at the output of the measurement antenna using Equation (19).

$$E = 126.8 - 20 \log(\lambda) + P - G \quad (19)$$

where

- E is the field strength of the emission at the measurement distance, in dBuV/m
- λ is the wavelength of the emission under investigation $[300/f(\text{MHz})]$, in m
- P is the power measured at the output of the measurement antenna, in dBm
- G is the gain of the measurement antenna, in dBi

NOTE—The measured power P includes all applicable instrument correction factors up to the connection to the measurement antenna.

If measurements were made at any distance other than the distance specified by the limit, then extrapolate the calculated field strength to the field strength at the distance specified by the limit using Equation (20).

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{D_{\text{Meas}}}{D_{\text{SpecLimit}}} \right) \quad E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{D_{\text{Meas}}}{D_{\text{SpecLimit}}} \right) \quad (20)$$

where

- $E_{\text{SpecLimit}}$ is the field strength of the emission at the distance specified by the limit, in dBuV/m
- E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m
- D_{Meas} is the measurement distance, in m
- $D_{\text{SpecLimit}}$ is the distance specified by the limit, in m

3.3 20 dB Emission Bandwidth and 99% Occupied Bandwidth

3.3.1 Applicable Standard

FCC §15.215

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.

RSS-Gen Clause 6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth: The transmitter shall be operated at its maximum carrier power measured under normal test conditions.

The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

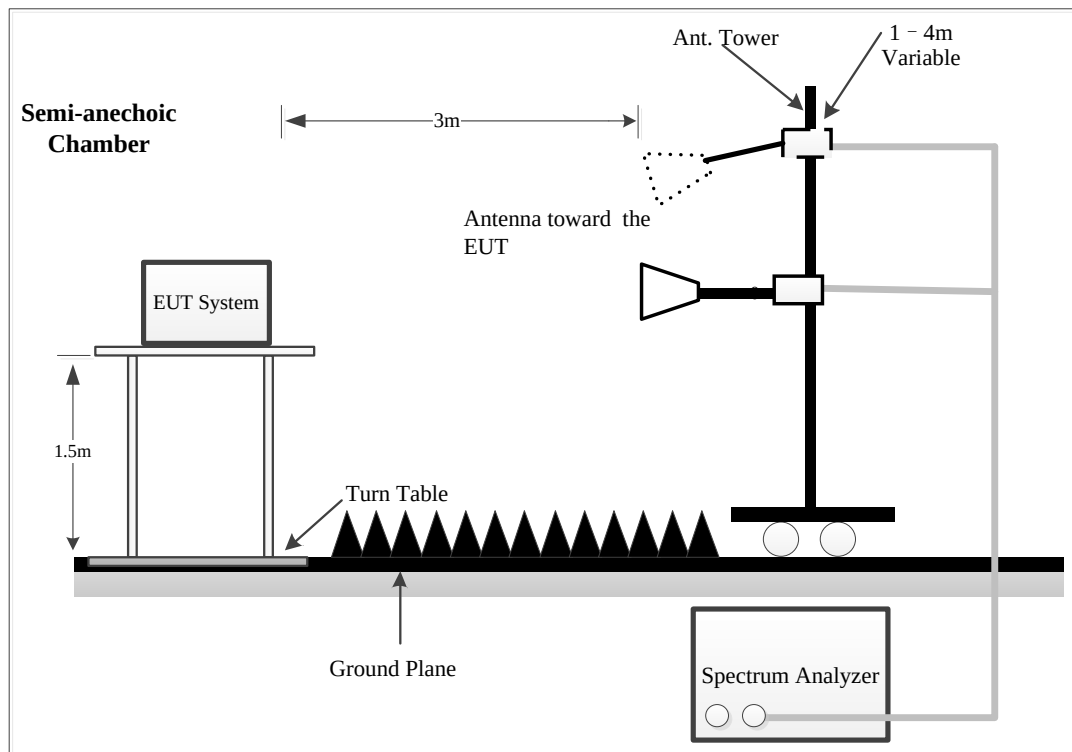
The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.

The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth).

3.3.2 EUT Setup



3.3.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.2

- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, unless otherwise specified by the applicable requirement.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

According to ANSI C63.10-2020 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring 99% power bandwidth:

- The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.

- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.4 Antenna Requirement

3.4.1 Applicable Standard

FCC §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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

RSS-Gen Clause 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

3.4.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.2.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Sample Number	30X6-17	Test Date:	2026/7/13
Test Site:	CE	Test Mode:	Transmitting
Tester:	Ella Huang	Test Result:	Pass

Environmental Conditions:

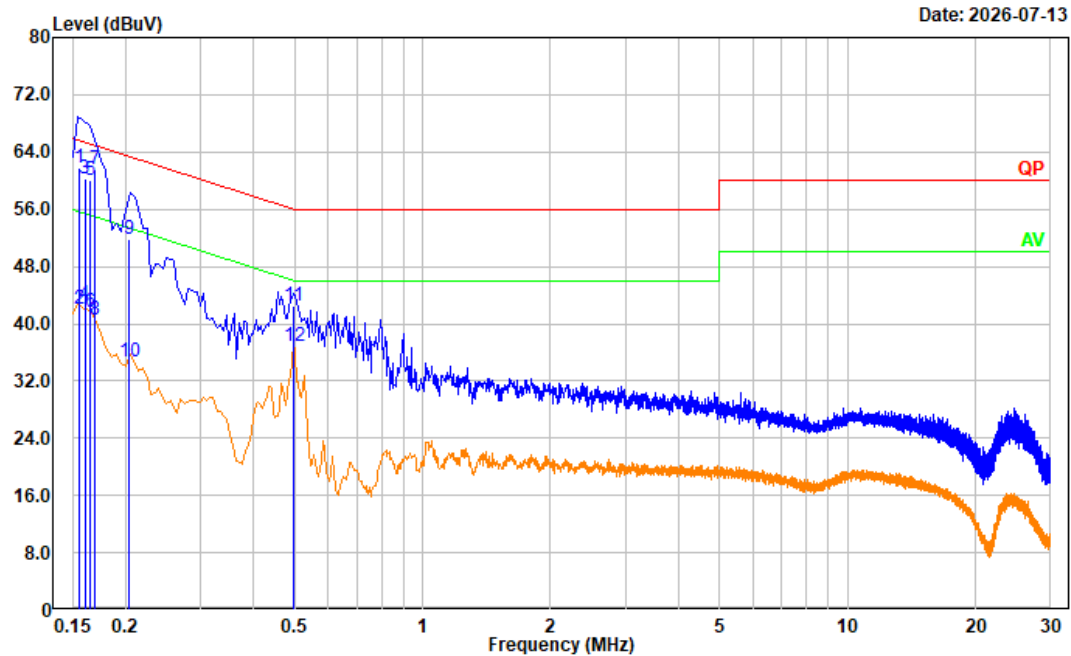
Temperature: (°C)	22.5	Relative Humidity: (%)	55	ATM Pressure: (kPa)	99.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2025/9/26	2026/9/25
R&S	EMI Test Receiver	ESR3	103104	2026/5/8	2027/5/7
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2025/11/10	2026/11/9
Audix	Test Software	E3	190306 (V9)	N/A	N/A

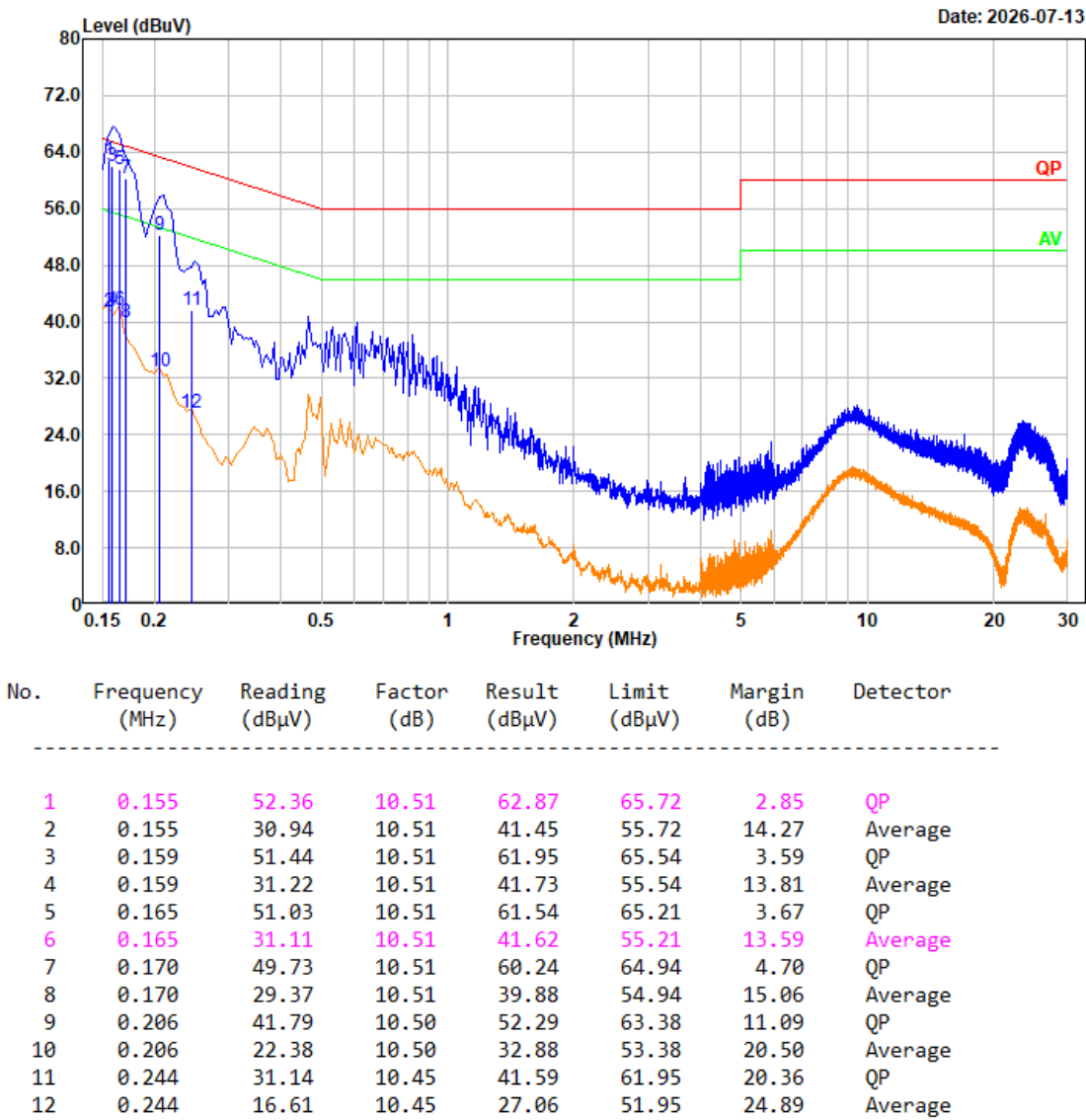
*** Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Project No.: 2603U18031E-RF
Tester: Ella Huang
Port: Line
Condition: RBW:9kHz
Test Mode: Transmitting
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.156	51.32	10.41	61.73	65.66	3.93	QP
2	0.156	31.62	10.41	42.03	55.66	13.63	Average
3	0.160	49.91	10.41	60.32	65.45	5.13	QP
4	0.160	32.21	10.41	42.62	55.45	12.83	Average
5	0.165	49.74	10.41	60.15	65.21	5.06	QP
6	0.165	31.21	10.41	41.62	55.21	13.59	Average
7	0.170	51.21	10.41	61.62	64.96	3.34	QP
8	0.170	30.22	10.41	40.63	54.96	14.33	Average
9	0.204	41.38	10.41	51.79	63.43	11.64	QP
10	0.204	24.19	10.41	34.60	53.43	18.83	Average
11	0.495	32.12	10.41	42.53	56.08	13.55	QP
12	0.495	26.44	10.41	36.85	46.08	9.23	Average

Project No.: 2603U18031E-RF
Tester: Ella Huang
Port: neutral
Condition: RBW:9kHz
Test Mode: Transmitting
Note:



4.2 Radiation Spurious Emissions

4.2.1 9 kHz – 1 GHz

Sample Number	3OX6-2	Test Date:	2026/8/1
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Jin He	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.9	Relative Humidity: (%)	62	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/01	2026/11/30
GLOBAL	Loop Antenna	1313-1A	3110611	2026/01/29	2029/01/28
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/11/10	2026/11/09
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/11/10	2026/11/09
R&S	EMI Test Receiver	ESR3	102724	2026/02/27	2027/02/26
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2025/11/10	2026/11/09
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2025/11/10	2026/11/09
XQY	Coaxial Cable	XQY-CMR400UF-NJ- NJ-7M	24056379	2026/05/21	2027/05/20
Sonoma	Amplifier	310N	186165	2025/11/10	2026/11/09
Audix	Test Software	E3	191218 (V9)	N/A	N/A

*** Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

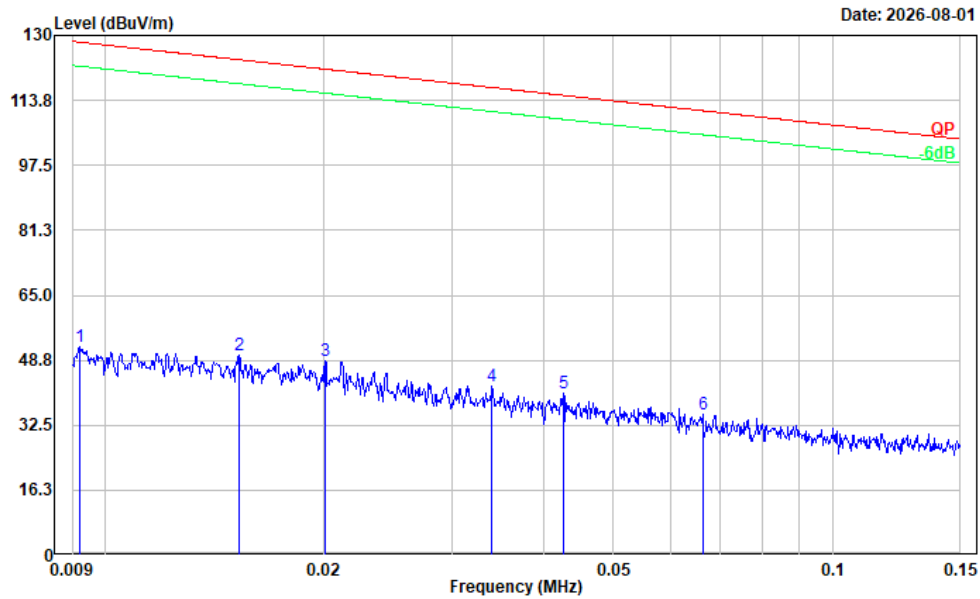
Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case(Z axes) is below:

9kHz~30MHz

Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

Project No.: 2603U18031E-RF
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Parallel
Note: Transmitting 24G Radar



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.009	16.79	35.35	52.14	128.32	76.18	Peak
2	0.015	18.12	31.84	49.96	123.93	73.97	Peak
3	0.020	18.89	29.60	48.49	121.56	73.07	Peak
4	0.034	18.23	24.06	42.29	116.96	74.67	Peak
5	0.043	18.12	22.22	40.34	115.01	74.67	Peak
6	0.066	17.10	18.24	35.34	111.17	75.83	Peak

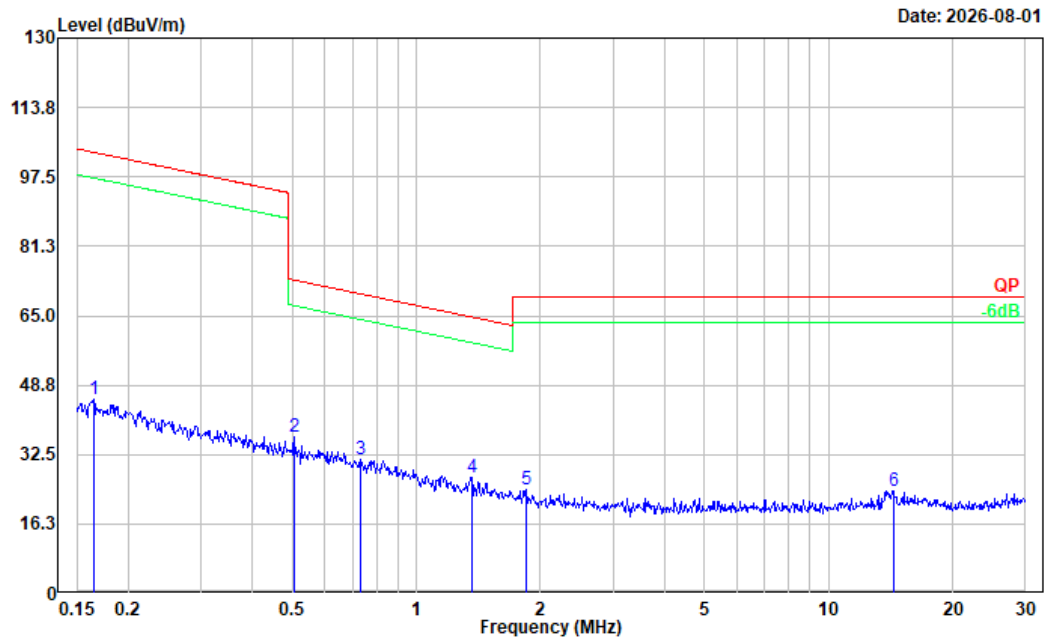
Project No.: 2603U18031E-RF

Tester: Jin He

Condition: RBW:9 kHz VBW:30 kHz

Polarization: Parallel

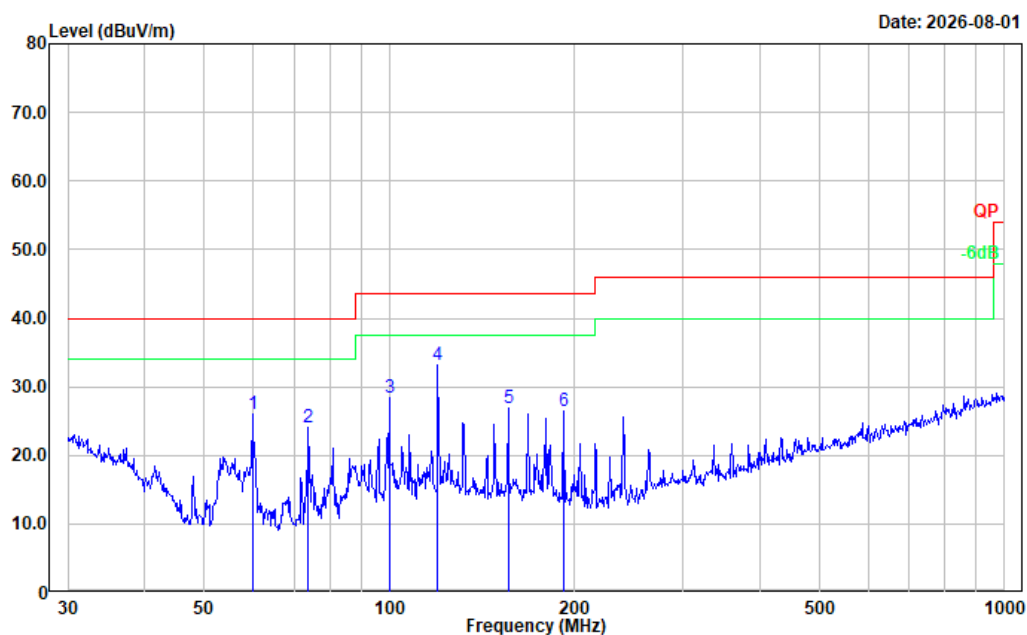
Note: Transmitting 24G Radar



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.165	34.30	11.32	45.62	103.25	57.63	Peak
2	0.505	35.74	0.81	36.55	73.54	36.99	Peak
3	0.731	32.93	-1.66	31.27	70.25	38.98	Peak
4	1.359	32.68	-5.56	27.12	64.75	37.63	Peak
5	1.848	31.43	-7.07	24.36	69.54	45.18	Peak
6	14.364	31.87	-7.89	23.98	69.54	45.56	Peak

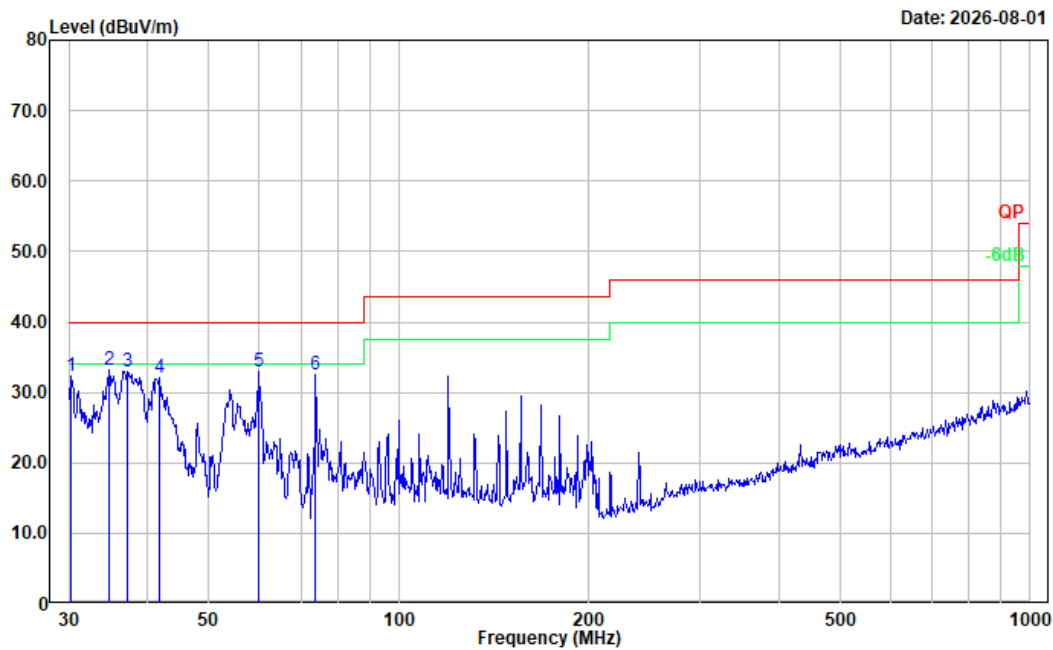
30MHz-1GHz

Project No.: 2603U18031E-RF
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: horizontal
Note: Transmitting 24G Radar



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	59.859	43.57	-17.64	25.93	40.00	14.07	Peak
2	73.876	41.05	-17.09	23.96	40.00	16.04	Peak
3	99.878	42.78	-14.47	28.31	43.50	15.19	Peak
4	119.856	44.24	-11.12	33.12	43.50	10.38	Peak
5	155.910	38.61	-11.71	26.90	43.50	16.60	Peak
6	191.745	39.82	-13.38	26.44	43.50	17.06	Peak

Project No.: 2603U18031E-RF
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: vertical
Note: Transmitting 24G Radar



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.317	36.40	-4.01	32.39	40.00	7.61	Peak
2	34.760	40.49	-7.27	33.22	40.00	6.78	Peak
3	37.155	42.09	-9.11	32.98	40.00	7.02	Peak
4	41.713	44.63	-12.44	32.19	40.00	7.81	Peak
5	59.859	50.67	-17.64	33.03	40.00	6.97	Peak
6	73.876	49.55	-17.09	32.46	40.00	7.54	Peak

4.2.2 1 GHz – 100 GHz

Sample Number	3OX6-2	Test Date:	2026/7/26-2026/10/8
Test Site:	966-2	Test Mode:	Transmitting
Tester:	HuaYuan Miao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.2-23.5	Relative Humidity: (%)	55-57	ATM Pressure: (kPa)	99.8-101.2
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Test Equipment List and Details:

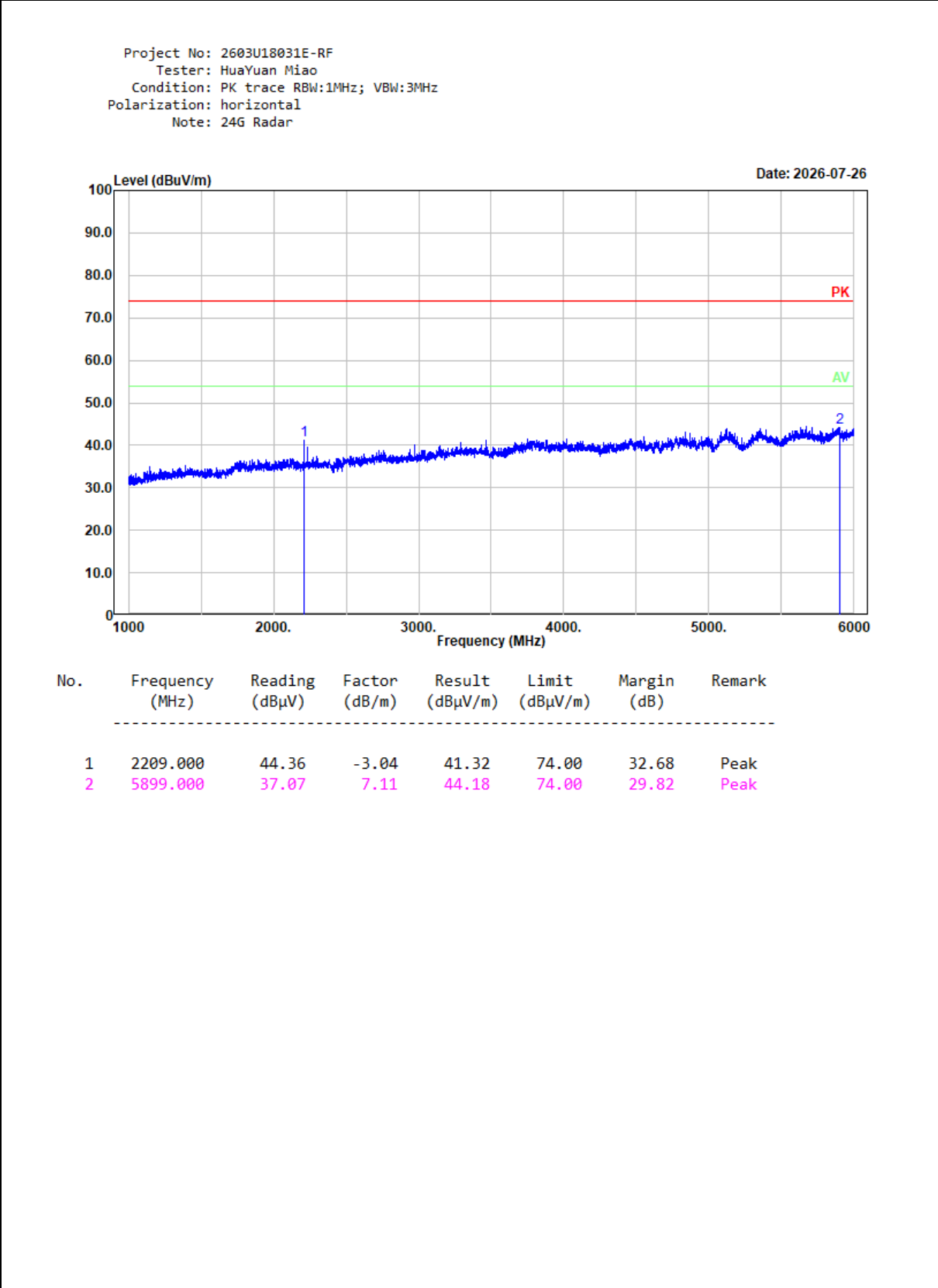
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2026/2/27	2027/2/26
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/11/10	2026/11/9
A.H	Pre-amplifier	PAM-0118P	628	2025/11/10	2026/11/9
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/5/24	2027/5/23
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/11/10	2026/11/9
PASTERNAK	Horn Antenna	PE9850/2F-20	72001	2024/5/24	2027/5/23
OML	Harmonic Mixer	WR19/M19HWD	U60314-1	2026/2/14	2029/2/13
OML	Horn Antenna	M19RH	11648-03	2026/2/25	2029/2/24
OML	Harmonic Mixer	WR12/M12HWD	E60119-1	2024/2/16	2027/2/15
OML	Horn Antenna	M12RH	E60119-2	2026/2/25	2029/2/24
OML	Harmonic Mixer	WR08/M08HWD	F60315-1	2026/2/14	2029/2/13
OML	Horn Antenna	M08RH	F60315-2	2026/2/25	2029/2/24
Agilent	Spectrum Analyzer	E4440A	MY44303352	2026/3/30	2027/3/29

*** Statement of Traceability:** China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

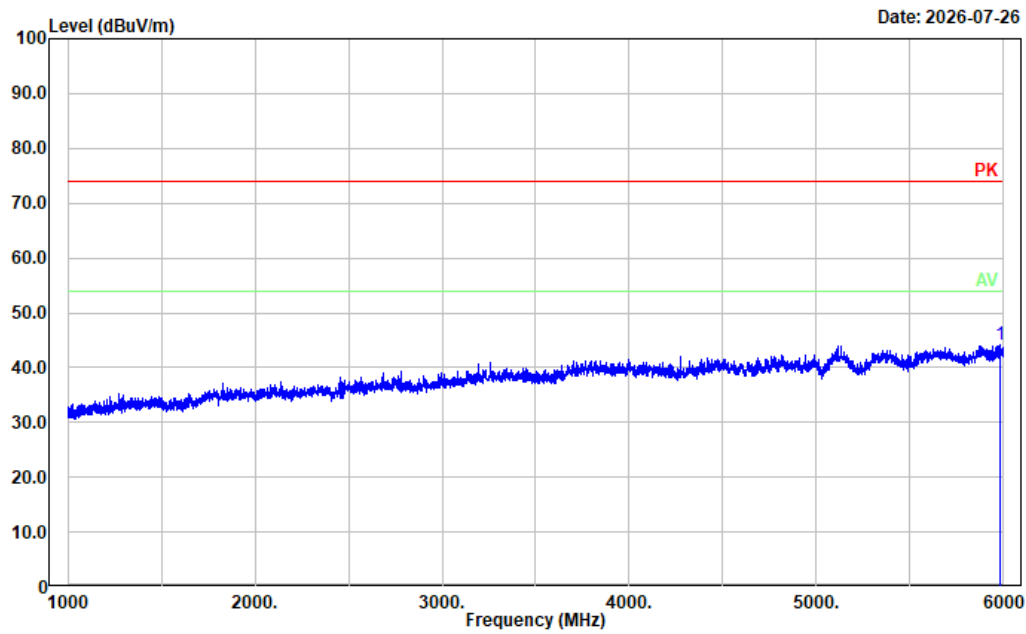
Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case(Z axes) is below:

1-40GHz:

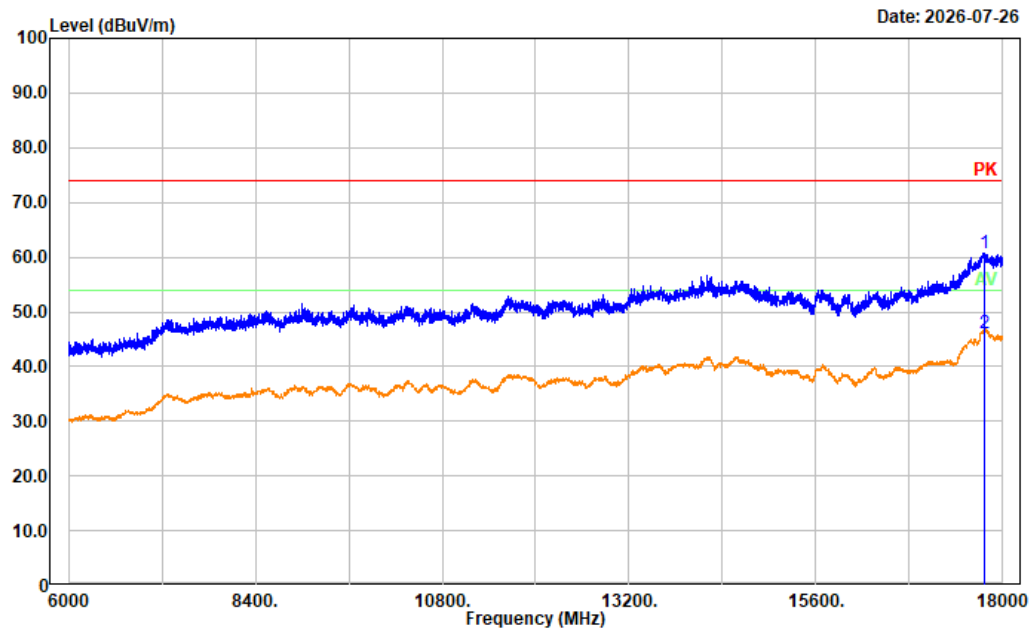


Project No: 2603U18031E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: vertical
Note: 24G Radar



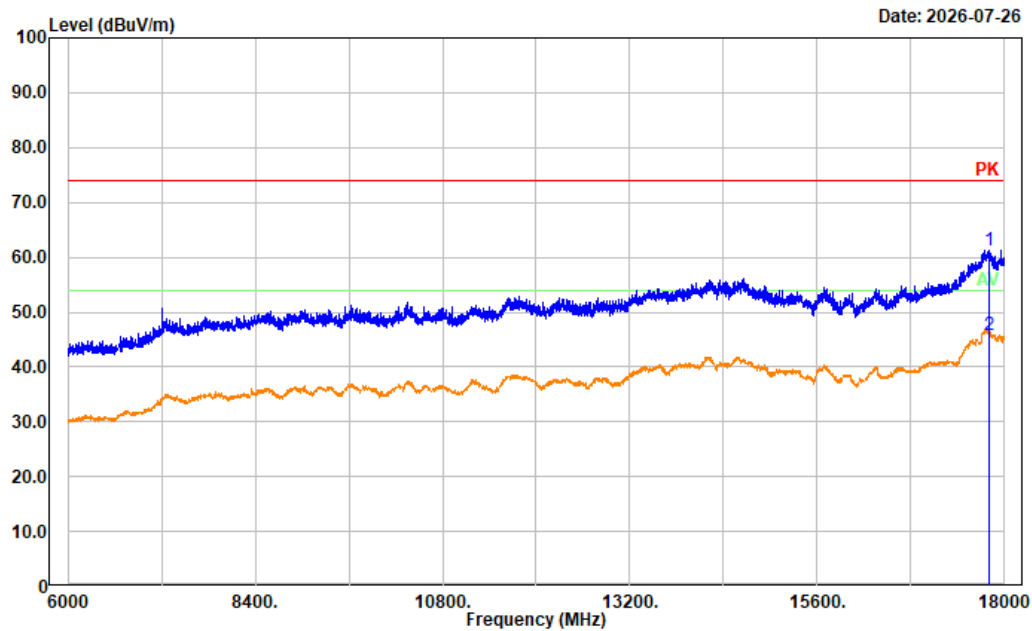
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	5982.000	36.64	7.55	44.19	74.00	29.81	Peak

Project No: 2603U18031E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: 24G Radar



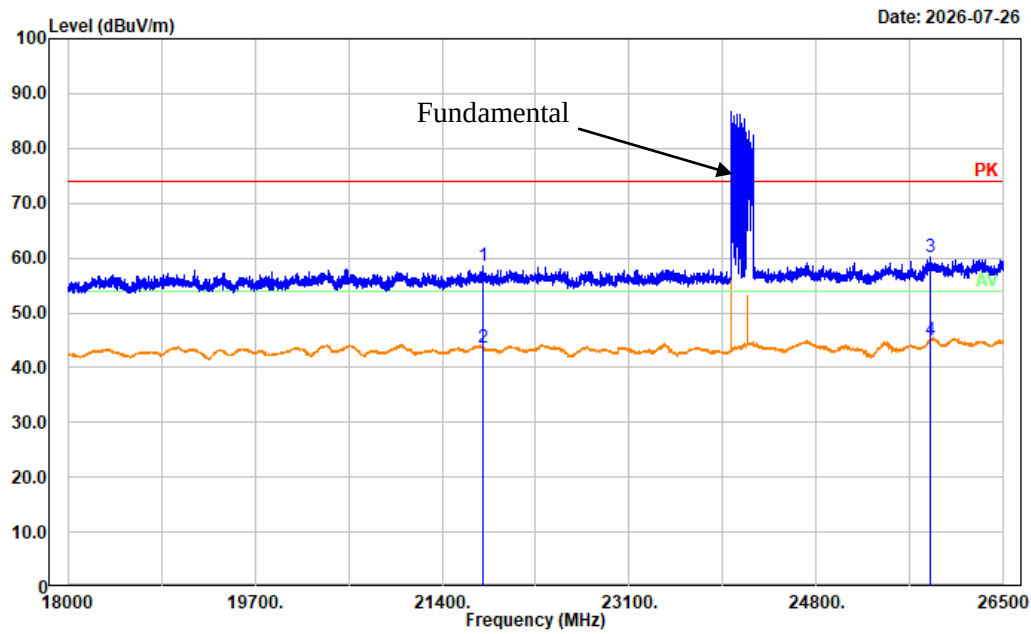
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	17764.800	39.49	21.23	60.72	74.00	13.28	Peak
2	17764.800	24.80	21.23	46.03	54.00	7.97	Average

Project No: 2603U18031E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: 24G Radar



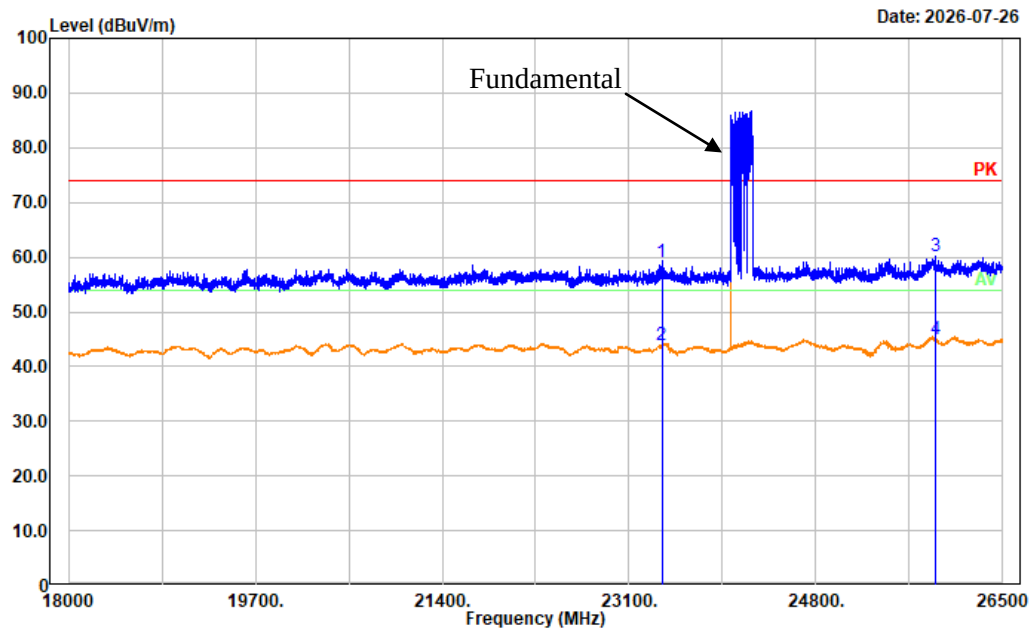
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	17810.400	39.98	21.36	61.34	74.00	12.66	Peak
2	17810.400	24.40	21.36	45.76	54.00	8.24	Average

Project No: 2603U18031E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: 24G Radar



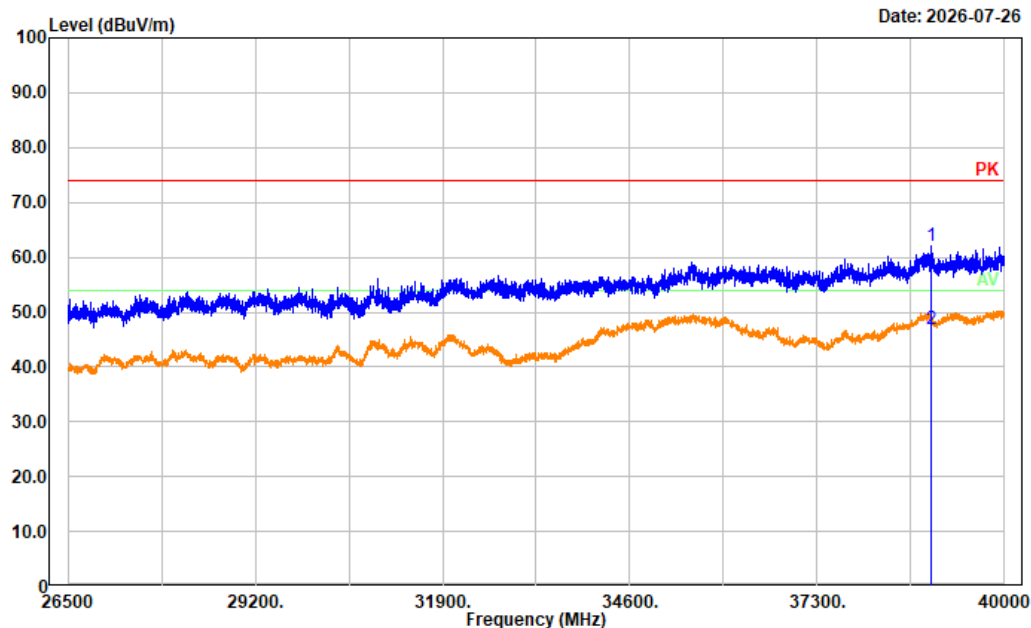
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	21777.400	51.48	6.94	58.42	74.00	15.58	Peak
2	21777.400	36.73	6.94	43.67	54.00	10.33	Average
3	25833.600	50.81	9.22	60.03	74.00	13.97	Peak
4	25833.600	35.77	9.22	44.99	54.00	9.01	Average

Project No: 2603U18031E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: 24G Radar



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	23397.500	51.63	7.58	59.21	74.00	14.79	Peak
2	23397.500	36.20	7.58	43.78	54.00	10.22	Average
3	25884.600	50.85	9.27	60.12	74.00	13.88	Peak
4	25884.600	35.70	9.27	44.97	54.00	9.03	Average

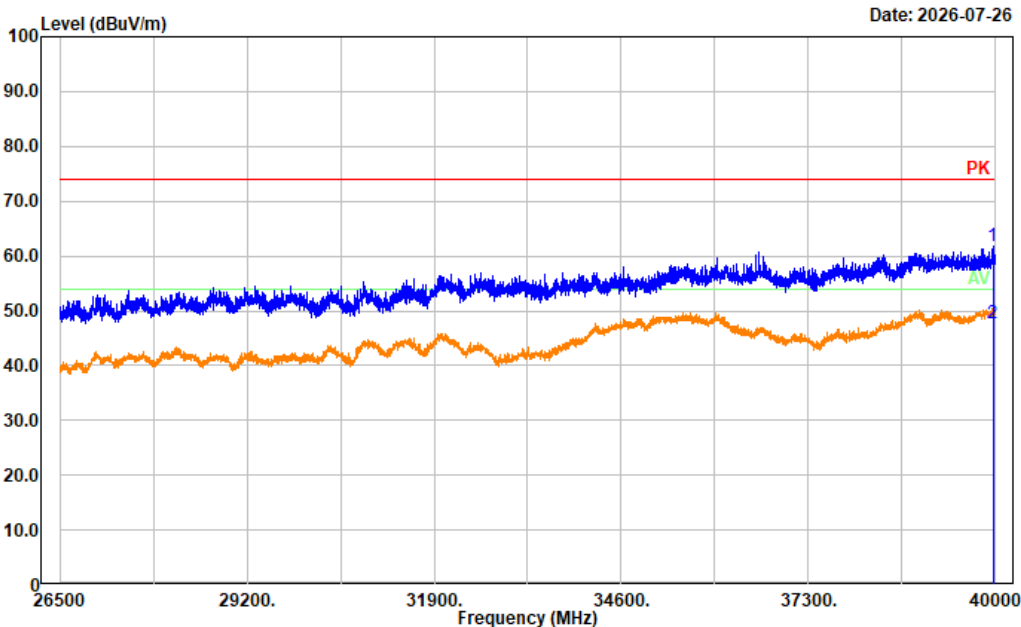
Project No: 2603U18031E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Horizontal
Note: 24G Radar



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark

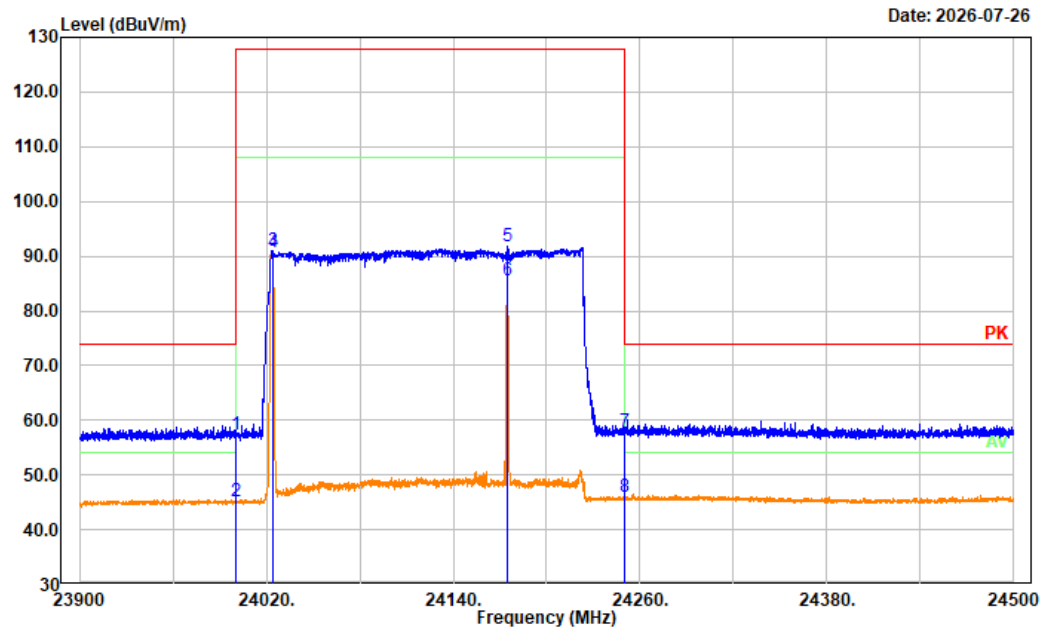
1	38933.500	52.43	9.61	62.04	74.00	11.96	Peak
2	38933.500	37.38	9.61	46.99	54.00	7.01	Average

Project No: 2603U18031E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Vertical
Note: 24G Radar



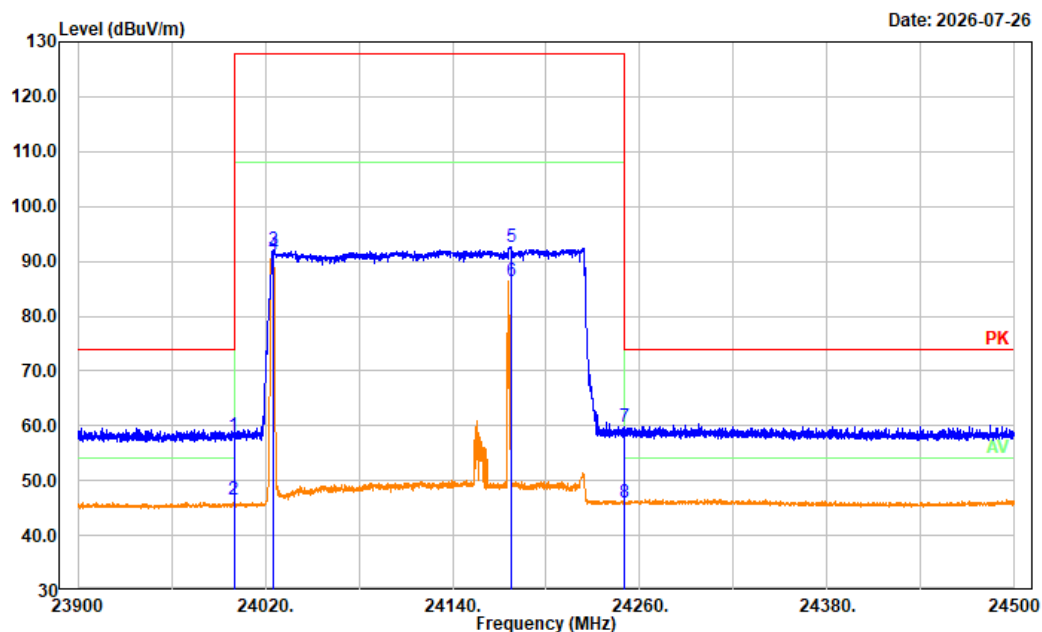
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	39959.500	55.80	6.06	61.86	74.00	12.14	Peak
2	39959.500	41.73	6.06	47.79	54.00	6.21	Average

Project No: 2603U18031E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Horizontal
Note: 24G Radar



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	24000.000	49.66	7.58	57.24	74.00	16.76	Peak
2	24000.000	37.49	7.58	45.07	54.00	8.93	Average
3	24024.440	83.46	7.59	91.05	127.96	36.91	Peak
4	24024.440	83.25	7.59	90.84	107.96	17.12	Average
5	24174.920	83.99	7.67	91.66	127.96	36.30	Peak
6	24174.920	77.76	7.67	85.43	107.96	22.53	Average
7	24250.000	50.28	7.71	57.99	74.00	16.01	Peak
8	24250.000	38.32	7.71	46.03	54.00	7.97	Average

Project No: 2603U18031E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Vertical
Note: 24G Radar



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	23999.960	50.62	7.58	58.20	74.00	15.80	Peak
2	23999.960	39.08	7.58	46.66	54.00	7.34	Average
3	24025.160	84.39	7.59	91.98	127.96	35.98	Peak
4	24025.160	83.69	7.59	91.28	107.96	16.68	Average
5	24177.200	84.98	7.67	92.65	127.96	35.31	Peak
6	24177.200	78.67	7.67	86.34	107.96	21.62	Average
7	24250.000	51.97	7.71	59.68	74.00	14.32	Peak
8	24250.000	38.41	7.71	46.12	54.00	7.88	Average

For Radiated 24 -24.25GHz:
Chirps Correction Factor

Chirps Time (μs)	BW _{chirp} (MHz)	RBW (MHz)	Chirps Correction Factor (dB)
300	203.959	1	0.19

Refer to ANSI C63.10-2020/cor 1-2023 Annex L.1. The chirps correction factor was calculated using the formula:

$$\alpha = \frac{1}{\left(1 + \left[\left(\frac{2 \times \ln(2)}{\pi}\right)^2 \times \left(\frac{BW_{\text{Chirp}}}{T_{\text{Chirp}} \times RBW^2}\right)^2\right]\right)^{0.25}}$$

where

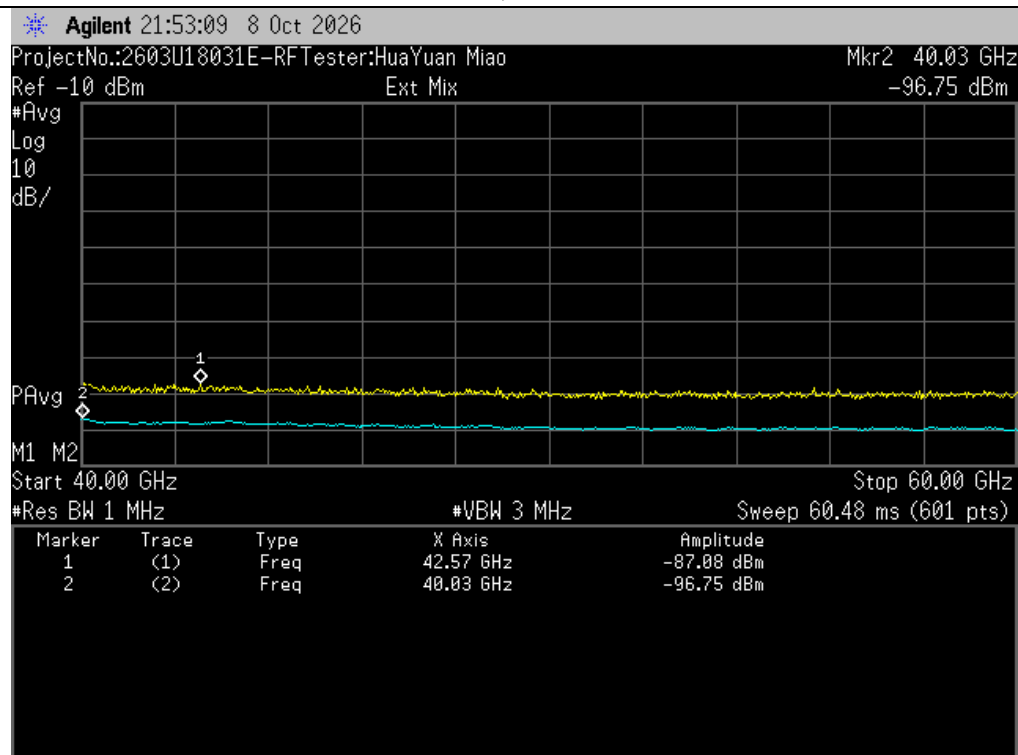
α is the reduction in amplitude
 BW_{Chirp} is the FMCW Chirp Bandwidth
 T_{Chirp} is the FMCW Chirp Time

For peak detection:

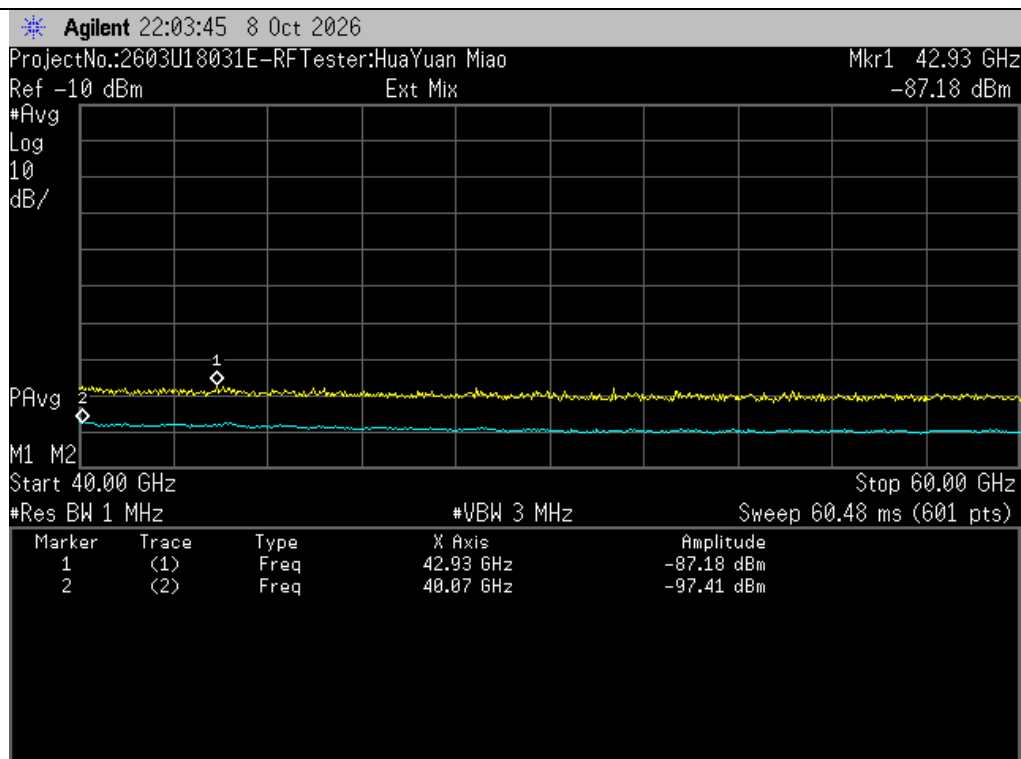
Maximum Fundamental strength (dBμV/m)	Detector	Chirps Correction Factor (dB)	Final Fundamental strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
92.65	PK	0.19	92.84	127.96	35.12

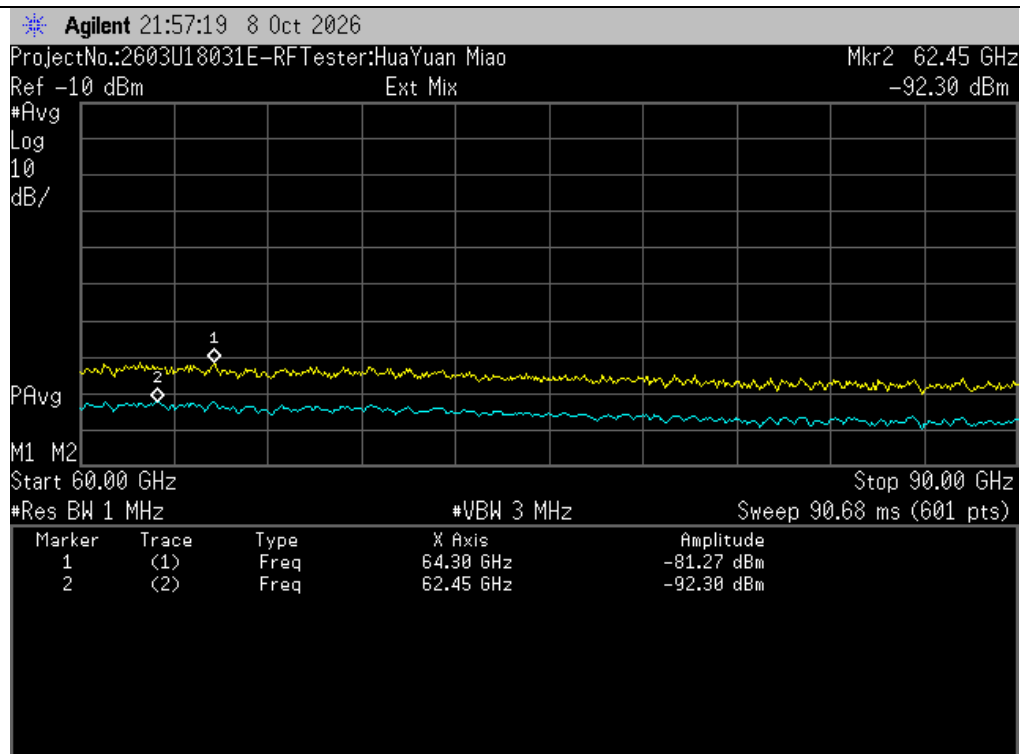
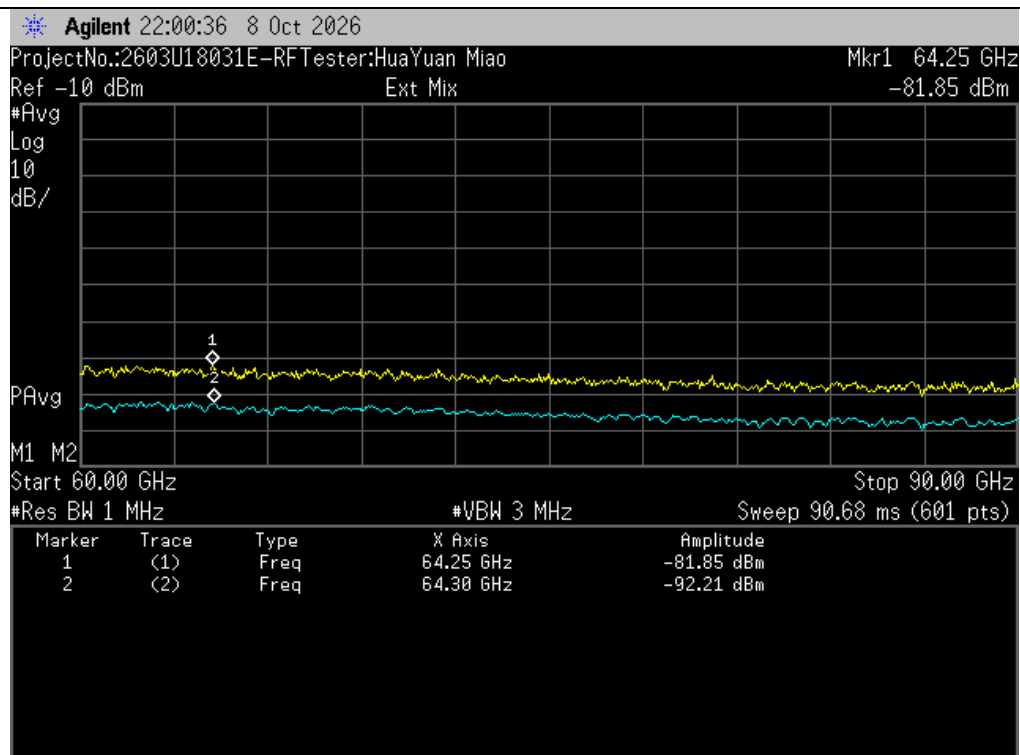
40-100GHz:

40-60GHz, Horizontal

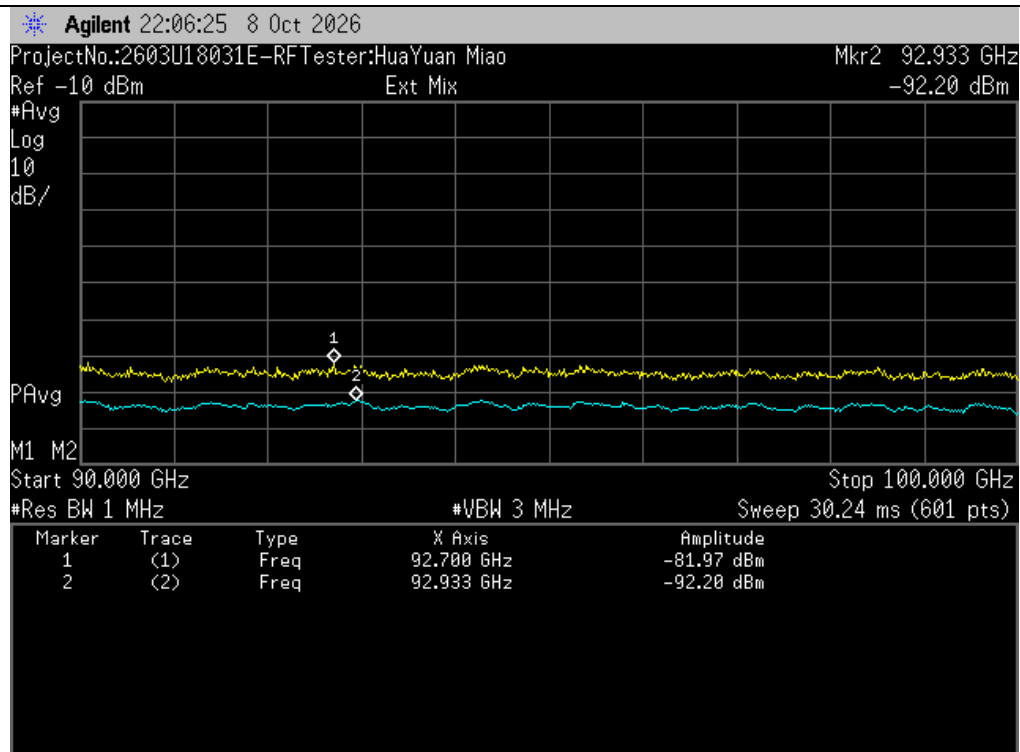


40-60GHz, Vertical

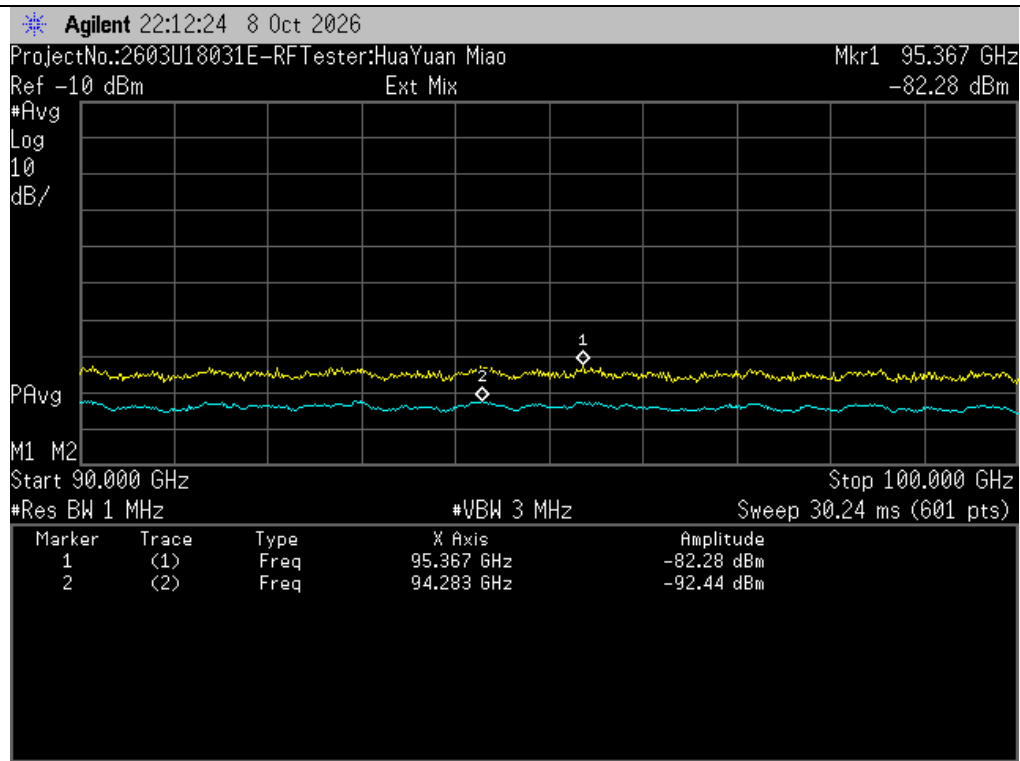


60-90GHz, Horizontal**60-90GHz, Vertical**

90-100GHz, Horizontal



90-100GHz, Vertical



Frequency (GHz)	Read Level(dBm)	Detector	Polar (H/V)	Rx Antenna Gain(dBi)	Field Strength (dBμV/m)	Limit(dBuV/m)	Margin (dB)
42.570	-87.08	PK	H	21.57	51.65	74.00	22.35
40.030	-96.75	AV	H	21.29	41.72	54.00	12.28
42.930	-87.18	PK	V	21.68	51.51	74.00	22.49
40.070	-97.41	AV	V	21.29	41.07	54.00	12.93
64.300	-81.27	PK	H	22.14	60.47	74.00	13.53
62.450	-92.30	AV	H	22.05	49.28	54.00	4.72
64.250	-81.85	PK	V	22.15	59.87	74.00	14.13
64.300	-92.21	AV	V	22.14	49.53	54.00	4.47
92.700	-81.97	PK	H	22.04	57.03	74.00	16.97
92.933	-92.20	AV	H	22.05	46.81	54.00	7.19
95.367	-82.28	PK	V	22.17	56.83	74.00	17.17
94.283	-92.44	AV	V	22.11	46.63	54.00	7.37

Note:

1. Refer to ANSI C63.10-2020 Clause 9.2.1

Calculate the field strength from the radiated measurement in the far-field using Equation (19):

$$E = 126.8 - 20 \log(\lambda) + P - G \quad (19)$$

where

E is the field strength of the emission at the measurement distance, in dBuV/m
 λ is the wavelength of the emission under investigation $[300/f(\text{MHz})]$, in m
 P is the power measured at the output of the measurement antenna, in dBm
 G is the gain of the measurement antenna, in dBi

NOTE—The measured power P includes all applicable instrument correction factors up to the connection to the measurement antenna.

For field strength measurements made at other than the distance specified by the limit, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). The inverse-distance equation is given by Equation (20):

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{D_{\text{Meas}}}{D_{\text{SpecLimit}}} \right)$$

where

$E_{\text{SpecLimit}}$ is the field strength of the emission at the distance specified by the limit, in dBuV/m
 E_{Meas} is the field strength of the emission at the measurement distance, in dBuV/m
 D_{Meas} is the measurement distance, in m
 $D_{\text{SpecLimit}}$ is the distance specified by the limit, in m

40-90GHz:

$$\text{Field Strength} = E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log(1/3)$$

For example,

$$\text{For 42.57GHz, Field Strength} = 126.8 - 20 \log(0.3/42.57) + (-87.08) - 21.57 + 20 \log(1/3) = 51.65 \text{ dB}\mu\text{V/m}@3\text{m}$$

90-100GHz:

$$\text{Field Strength} = E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log(0.5/3)$$

For example,

$$\text{For 92.7GHz, Field Strength} = 126.8 - 20 \log(0.3/92.7) + (-81.97) - 22.04 + 20 \log(0.5/3) = 57.03 \text{ dB}\mu\text{V/m}@3\text{m}$$

4.3 20 dB Emission Bandwidth and 99% Occupied Bandwidth:

Sample Number	3OX6-2	Test Date:	2026/7/26
Test Site:	966-2	Test Mode:	Transmitting
Tester:	HuaYuan Miao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5	Relative Humidity: (%)	57	ATM Pressure: (kPa)	99.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2026/2/27	2027/2/26
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/5/24	2027/5/23
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/11/10	2026/11/9

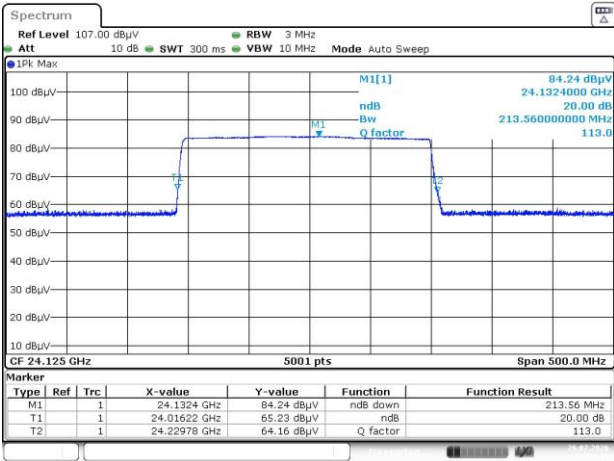
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Mode	20 dB Bandwidth (MHz)	F_L (GHz)	F_L Limit (GHz)	F_H (GHz)	F_H Limit (GHz)	Result
Sweep Mode	213.560	24.01622	24.000	24.22978	24.250	Pass

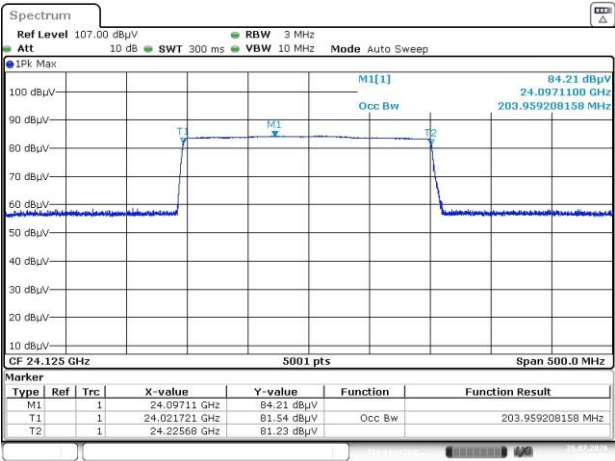
Test Mode	99% Occupied Bandwidth (MHz)	F_L (GHz)	F_L Limit (GHz)	F_H (GHz)	F_H Limit (GHz)	Result
Sweep Mode	203.959	24.021721	24.000	24.22568	24.250	Pass

20 dB Bandwidth



ProjectNo.:2603U18031E-RF Tester:HuaYuan Miao
Date: 26.JUL.2026 13:53:13

99% Occupied Bandwidth



ProjectNo.:2603U18031E-RF Tester:HuaYuan Miao
Date: 26.JUL.2026 14:14:36

5. EUT PHOTOGRAPHS

Please refer to the attachment 2603U18031E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2603U18031E-RF-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2603U18031E-RF-00C-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====