NVLAP TESTING
NVLAP LAB CODE 600341-0

BACL Bay Area Compliance Labs Corp.

TEST REPORT

Applicant:	**Xiamen Milesight IoT Co., Ltd.**
Address:	**Building C09, Software Park Phase III, Xiamen 361024, Fujian, China**
Product Name:	**HVAC Controller**
FCC ID:	**2AYHY-UC711**
IC:	**27737-UC711**
HVIN:	**UC711-868M/915M, NC711-868M/915M**
Standard(s):	**47 CFR Part 15, Subpart C(15.247) RSS-247 Issue 4, July 24, 2025 RSS-Gen, Issue 5, February 2021 Amendment 2 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 KDB 558074 D01 15.247 Meas Guidance v05r02**
Report Number:	**2602T57655E-RF-00C**
Report Date:	**2026/10/15**

The above device has been tested and found compliant with the requirement of the relevant standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2602T57655E-RF-00C	Original Report	2026/10/15

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name:	HVAC Controller
EUT Model:	UC711-868M/915M
Multiple Model:	NC711-868M/915M
Operation Frequency:	903-926.9 MHz
Maximum Peak Output Power (Conducted):	20.46 dBm
Modulation Type:	CSS
Rated Input Voltage:	24VAC or DC 5V by Type-C Port
Serial Number:	3OEV-7(For RF Conducted Test) 3OEV-6(For Radiated Spurious Emissions Above 1G test) 3OEV-2(For AC line conducted emissions and Radiated Spurious Emissions Below 1G tests)
EUT Received Date:	2026/6/16
EUT Received Status:	Good
Note: The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.2 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.3 Antenna Information Detail▲

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
PCB	50	900-930MHz	-3.36dBi
The design of compliance with §15.203:			
☒ Unit uses a permanently attached antenna. ☐ Unit uses a unique coupling to the intentional radiator. ☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.			

1.4 Equipment Modifications

No modifications are made to the EUT during all test items.

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Test Items	Result
§15.207(a) RSS-Gen Clause 8.8	AC line conducted emissions	Compliant
§15.205, §15.209, §15.247(d) RSS-Gen Clause 8.10 RSS-247 Clause 6.6	Radiated Spurious Emissions	Compliant
§15.247 (a)(2) RSS-247 Clause 6.3.1 a)	Minimum 6 dB Bandwidth	Compliant
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliant
§15.247(b)(3) RSS-247 Clause 6.3.2	Maximum Conducted Output Power	Compliant
§15.247(e) RSS-247 Clause 6.3.1 b)	Power Spectral Density	Compliant
§15.247(d) RSS-247 Clause 6.6	Conducted Spurious Emission	Compliant
FCC §15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant

3. DESCRIPTION OF TEST CONFIGURATION

3.1 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	**903**	9	923.3
2	904.6	10	923.9
3	906.2	11	924.5
4	907.8	12	925.1
5	909.4	13	925.7
6	911	14	926.3
7	912.6	**15**	**926.9**
8	**914.2**	/	/

Note 1: The above frequencies in bold were performed the test.
Note 2: For AC line conducted emissions, the maximum output power mode and channel was tested.
Note 3: For Radiated Spurious Emissions 9kHz~1GHz, the maximum output power mode and channel was tested.

3.2 EUT Operation Condition

The EUT was configured for testing in Engineering Mode, which was provided by the manufacturer. The EUT configuration as below:

EUT Exercise Software:	Certification Tools		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:			
Test Modes	Power Level Setting		
	Lowest Channel	Middle Channel	Highest Channel
Lora-DTS	0	0	0

Note: Per 15B&ICES 003 Issue 7 report, Report No.: 2602T57655E-RF-00E, Powered by USB 5V Adapter was the worst for AC Line Conducted Emissions, Powered by AC 24V Adapter was the worst for Radiated Spurious Emissions, so only performed it this report.

3.3 Support Equipment List and Details

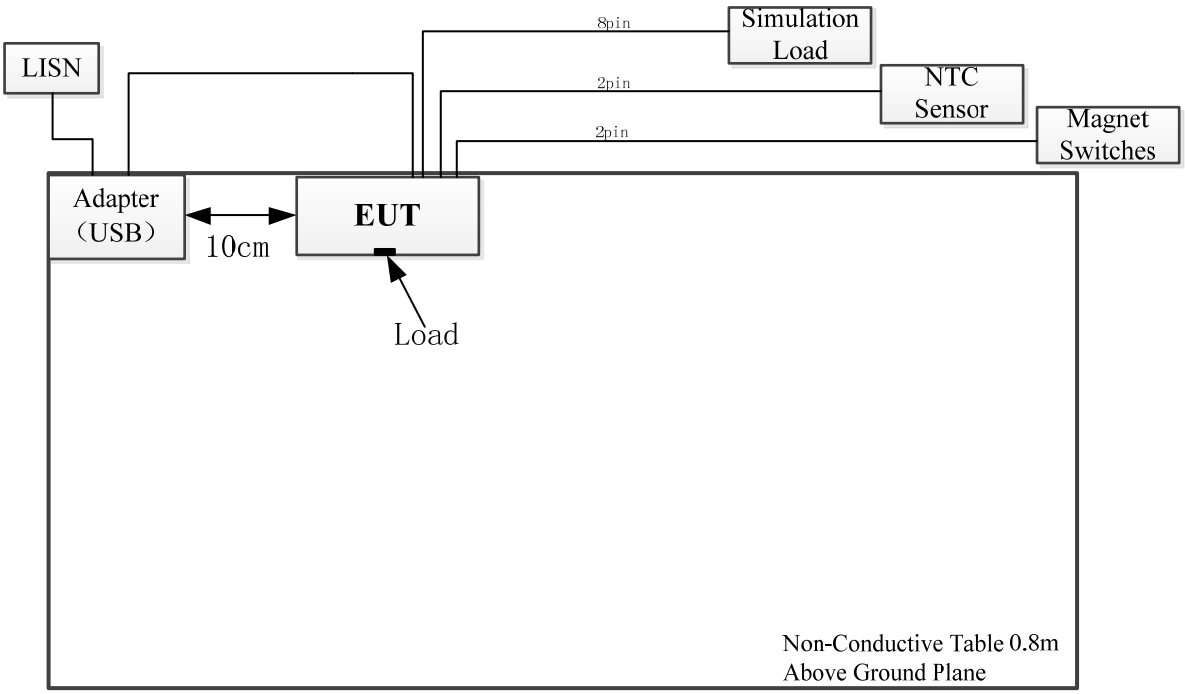
Manufacturer	Description	Model	Serial Number
Huajin	Adapter(USB)	HJ-C6-33-US	CHJ241133
Unknown	Load	Unknown	Unknown
Unknown	Simulation Load	Unknown	Unknown
Unknown	NTC Sensor	Unknown	Unknown
Unknown	Magnet Switches	Unknown	Unknown
Simsukian	AC Adapter（AC 24V）	SK05T-2400200Z	20061702000167

3.4 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1	Adapter(USB)	EUT
USB Cable	No	No	2	Adapter(USB)	EUT
8pin Cable	No	No	2	Simulation Load	EUT
2pin Cable	No	No	2	NTC Sensor	EUT
2pin Cable	No	No	2	Magnet Switches	EUT
Power Cable	No	No	0.5	EUT	AC Adapter（AC 24V）

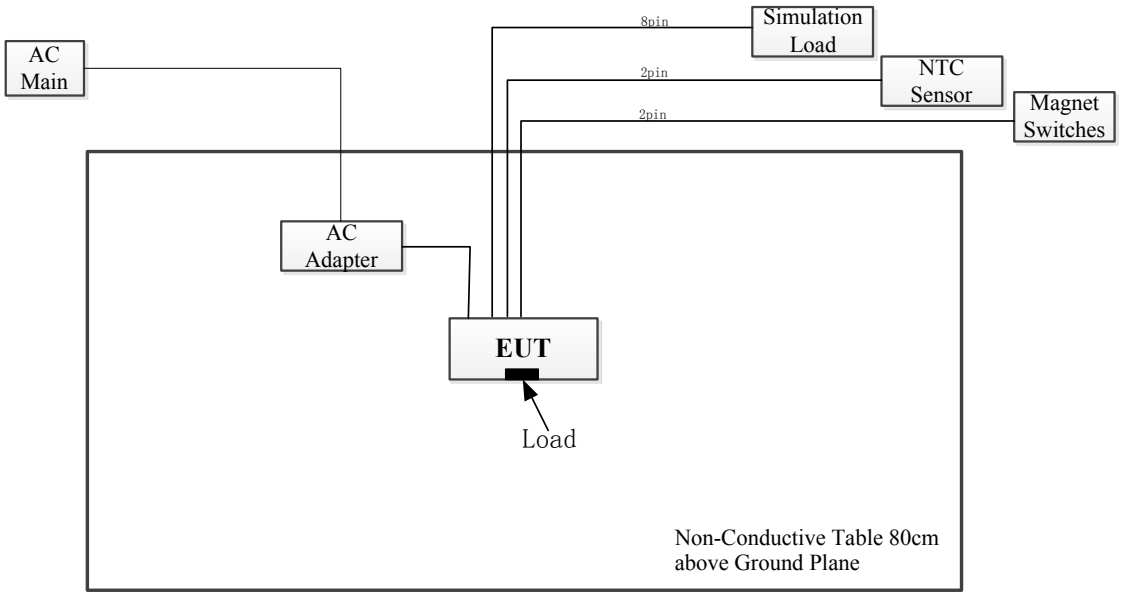
3.5 Block Diagram of Test Setup

AC line conducted emissions:

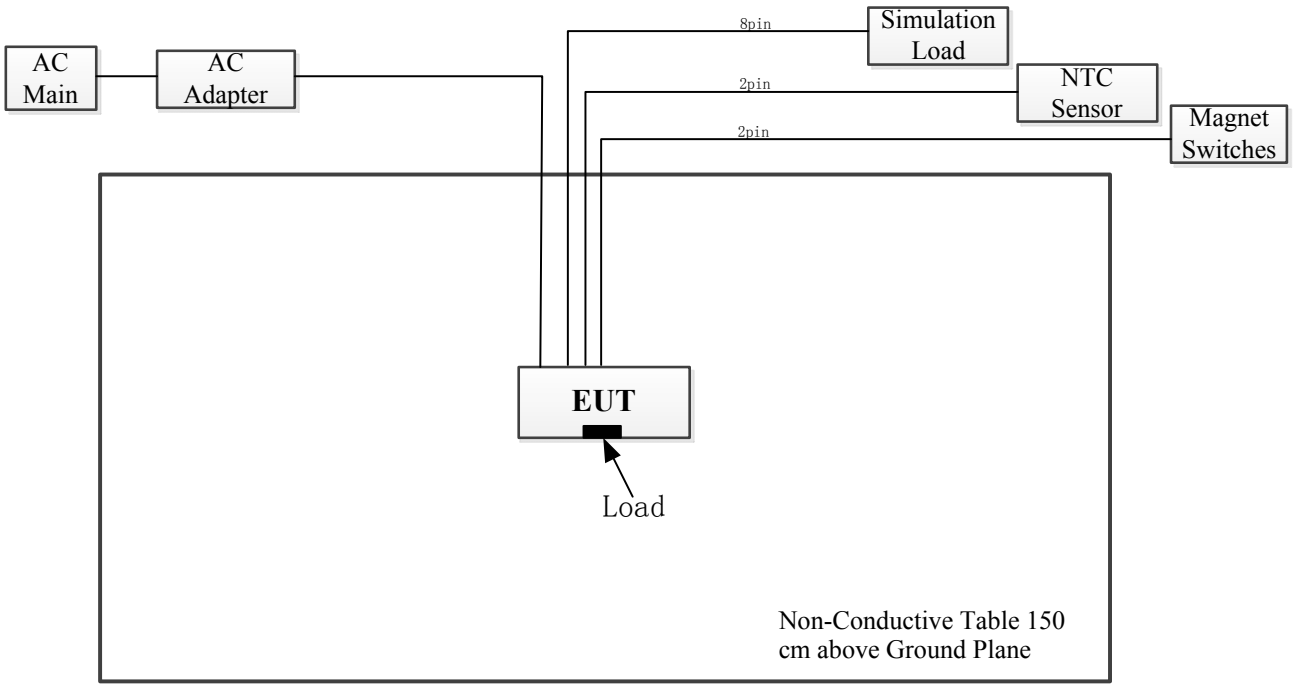


Spurious Emissions:

Below 1GHz:



Above 1GHz:



3.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, 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. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

3.7 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	±5 %
RF output power, conducted	±0.55 dB
Power Spectral Density, conducted	±0.55 dB
Unwanted Emissions, radiated	9kHz~30MHz: 3.06dB, 30MHz~1GHz: 6.13 dB,1GHz~6GHz: 4.79 dB, 6GHz~18GHz: 4.63 dB, 18GHz~26.5GHz:4.79 dB, 26.5GHz~40GHz:4.63 dB
Unwanted Emissions, conducted	±2.47 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.83 dB (150 kHz to 30 MHz)

4. REQUIREMENTS AND TEST PROCEDURES

4.1 AC Line Conducted Emissions

4.1.1 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 µH/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.

	Conducted limit (dBµV)	
Frequency of emission (MHz)	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 µV within the frequency band 535-1705 kHz, as measured using a 50 µH/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, obtainig 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 µH / 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 (dBµV)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56[1]	56 to 46[1]
0.5 – 5	56	46
5 – 30	60	50

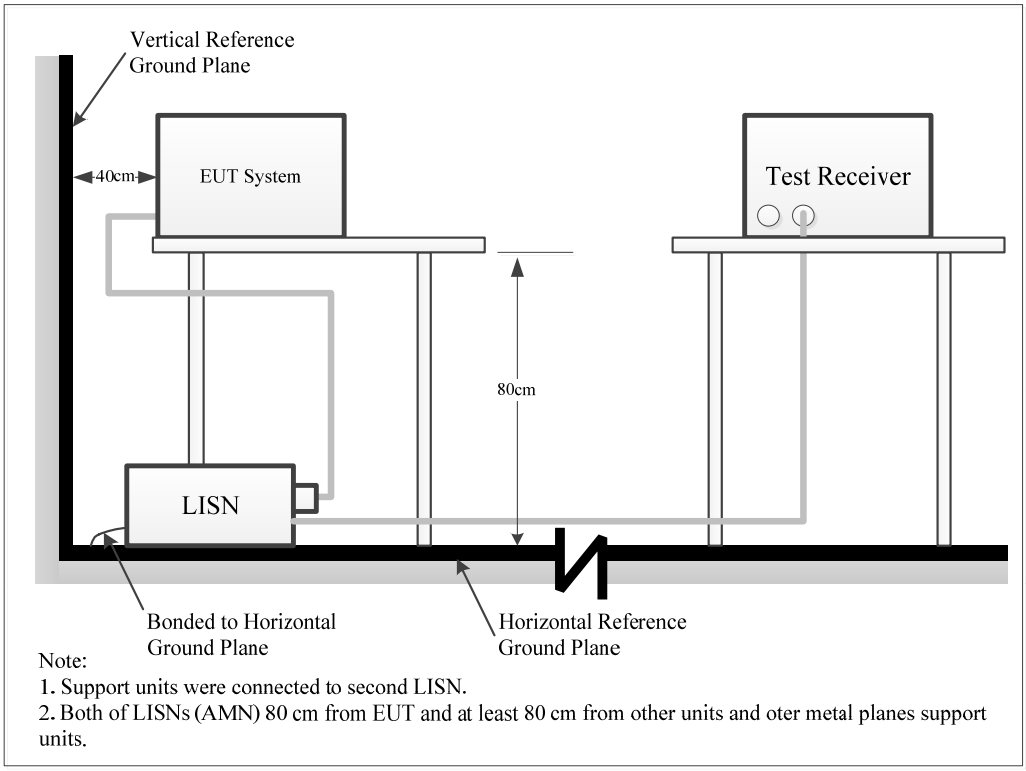
Note 1: The level decreases linearly with the logarithm of the frequency.

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.

4.1.2 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.

4.1.3 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

4.1.4 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.

4.1.5 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

4.1.6 Test Result

Please refer to section 5.1.

4.2 Radiation Spurious Emissions

4.2.1 Applicable Standard

FCC §15.247 (d);

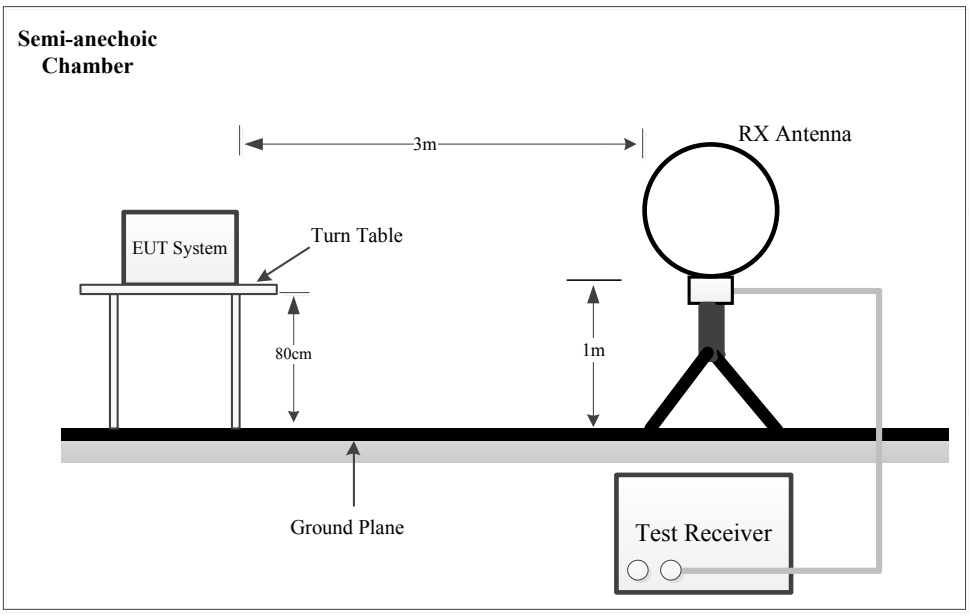
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

RSS-247 Clause 6.6

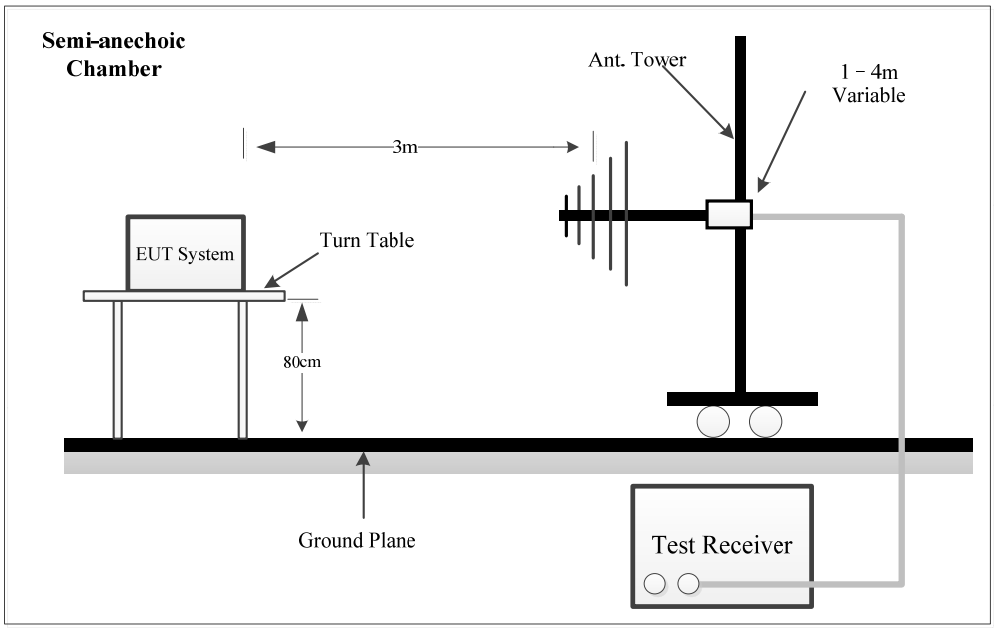
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced shall be at least 20 dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power -based on either an RF conducted or a radiated measurement -provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

4.2.2 EUT Setup

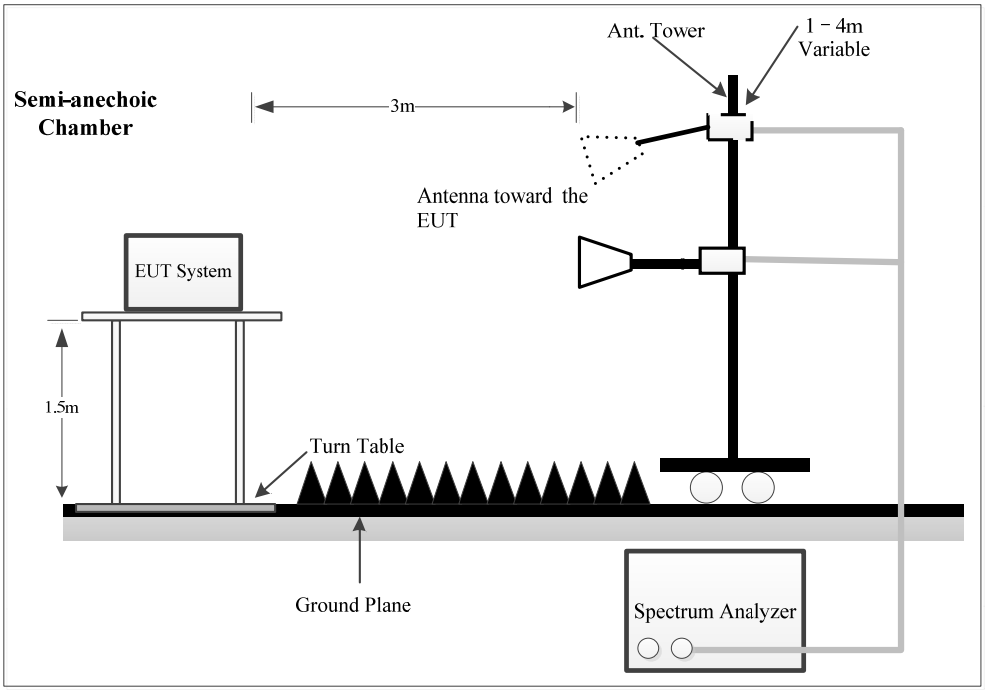
9kHz-30MHz:



30MHz~1GHz:



Above 1GHz:



The radiated emissions were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247, RSS-247, RSS-Gen limits.

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.

4.2.3 EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

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

Above 1GHz:
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:

Measurement	Detector	Duty cycle	RBW	Video B/W
PK	PK	Any	1MHz	3 MHz
Ave.	PK	>98%	1MHz	10 Hz
		<98%	1MHz	≥1/T

Note: T is minimum transmission duration

4.2.4 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.

All emissions under the average limit and under the noise floor have not recorded in the report.

4.2.5 Corrected Amplitude & Margin Calculation

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

E_{Linear} is the field strength of the emission, in μ V/m
E_{Log} is the field strength of the emission, in dB μ V/m

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

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

The basic equation is as follows:

Result = Reading + Factor
Factor = Antenna Factor + Cable Loss- Amplifier Gain

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

For the spurious emission below 30MHz, the limit was convert from dBμA/m to dBμV/m by adding 51.5 dB.

4.2.6 Test Result

Please refer to section 5.2.

4.3 Minimum 6 dB Emission Bandwidth

4.3.1 Applicable Standard

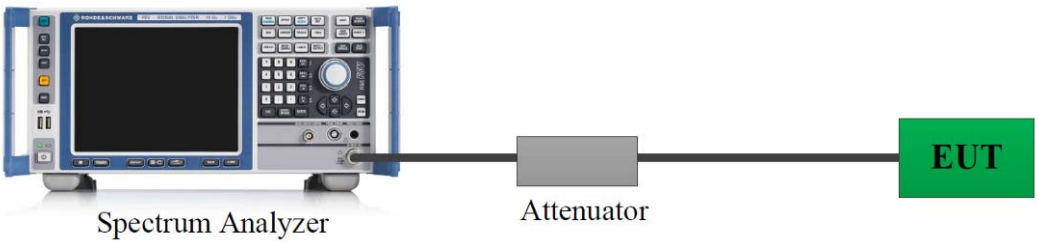
FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

RSS-247 Clause 6.3.1 a

The minimum 6 dB bandwidth shall be 500 kHz.

4.3.2 EUT Setup



4.3.3 Test Procedure

According to ANSI C63.10-2020 Section 11.8

a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
b) Set the VBW ≥ [3 × RBW].
c) Detector = peak.
d) Trace mode = max-hold.
e) Sweep = No faster than coupled (auto) time.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "−6 dB down amplitude". If a marker is below this "−6 dB down amplitude" value, then it shall be as close as possible to this value.

4.3.4 Test Result

Please refer to section 5.3.

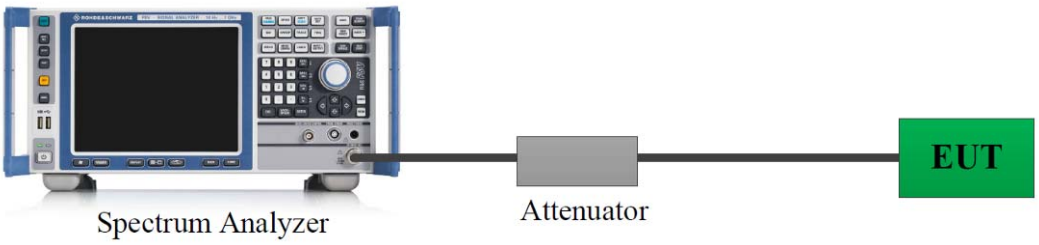
4.4 99% Occupied Bandwidth:

4.4.1 Applicable Standard

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).

4.4.2 EUT Setup



4.4.3 Test Procedure

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:
a) 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.
b) 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.
c) 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 (OBW/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).

4.4.4 Test Result

Please refer to section 5.4.

4.5 Maximum Conducted Output Power:

4.5.1 Applicable Standard

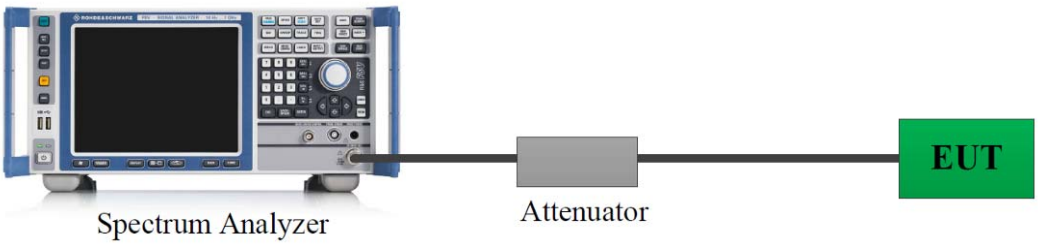
FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

RSS-247 Clause 6.3.2

For DTS operating in the band 902-928 MHz, the maximum peak conducted output power shall not exceed 1W, and the e.i.r.p. shall not exceed 4 W.

4.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.5.3 Test Procedure

According to ANSI C63.10-2020 Section 11.9.1.1

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:
a) Set the RBW ≥ DTS bandwidth.
b) Set VBW ≥ [3 × RBW].
c) Set span ≥ [3 × RBW].
d) Sweep time = No faster than coupled (auto) time.
e) Detector = peak.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use peak marker function to determine the peak amplitude level.

4.5.4 Test Result

Please refer to section 5.5.

4.6 Maximum power spectral density:

4.6.1 Applicable Standard

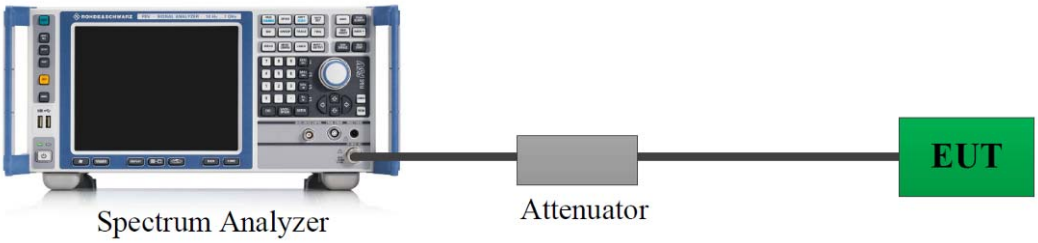
FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

RSS-247 Clause 6.3.1 b

The transmitter power spectral density conducted from the transmitter to the antenna(s) shall not be greater than 8 dBm/3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 6.3.2. The power spectral density shall be determined using the same method as is used to determine the maximum conducted output power.

4.6.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.6.3 Test Procedure

According to ANSI C63.10-2020 Section 11.10.2

a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span >1.5 times the DTS bandwidth.
c) Set the RBW to 3 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ [3 × RBW].
e) Detector = peak.
f) Sweep time = No faster than coupled (auto) time.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

4.6.4 Test Result

Please refer to section 5.6.

4.7 Conducted Spurious Emission:

4.7.1 Applicable Standard

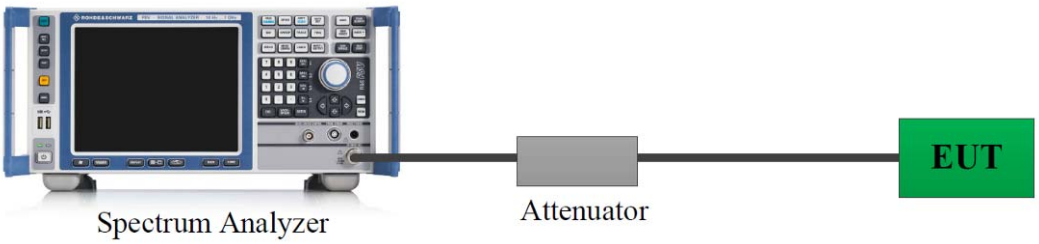
FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

RSS-247 Clause 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced shall be at least 20 dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power – based on either an RF conducted or a radiated measurement –provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

4.7.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

4.7.3 Test Procedure

According to ANSI C63.10-2020 Section 11.11.3

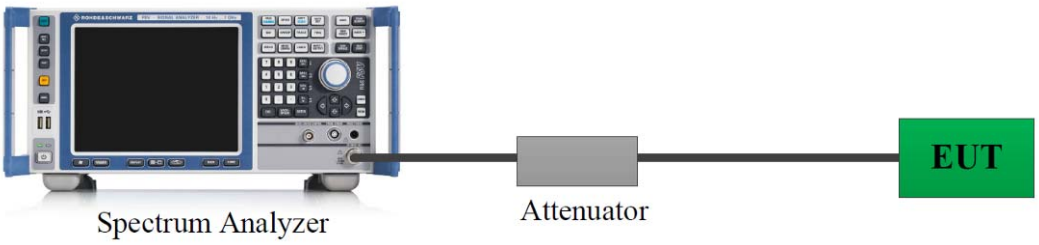
a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = No faster than coupled (auto) time.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum amplitude level.
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

4.7.4 Test Result

Please refer to section 5.7.

4.8 Duty Cycle:

4.8.1 EUT Setup



4.8.2 Test Procedure

According to ANSI C63.10-2020 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
1) Set the center frequency of the instrument to the center frequency of the transmission.
2) Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ RBW. Set detector = peak or average.
4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T ≤ 16.7 µs.)

4.8.3 Judgment

Report Only. Please refer to section 5.8.

4.9 Antenna Requirement

4.9.1 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.

4.9.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

5. TEST DATA AND RESULTS

5.1 AC Line Conducted Emissions

Serial Number:	3OEV-2	Test Date:	2026/07/03
Test Site:	CE	Test Mode:	Transmitting
Tester:	Ethan Wu	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	26.2	Relative Humidity: (%)	57	ATM Pressure: (kPa)	100.3

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101614	2026/6/15	2027/6/14
Unknown	Coaxial Cable	RG 142	C-0200-05	2026/4/9	2027/4/8
R&S	EMI Test Receiver	ESCI	100340	2026/6/15	2027/6/14
Audix	Test Software	E3	191218 V9	N/A	N/A

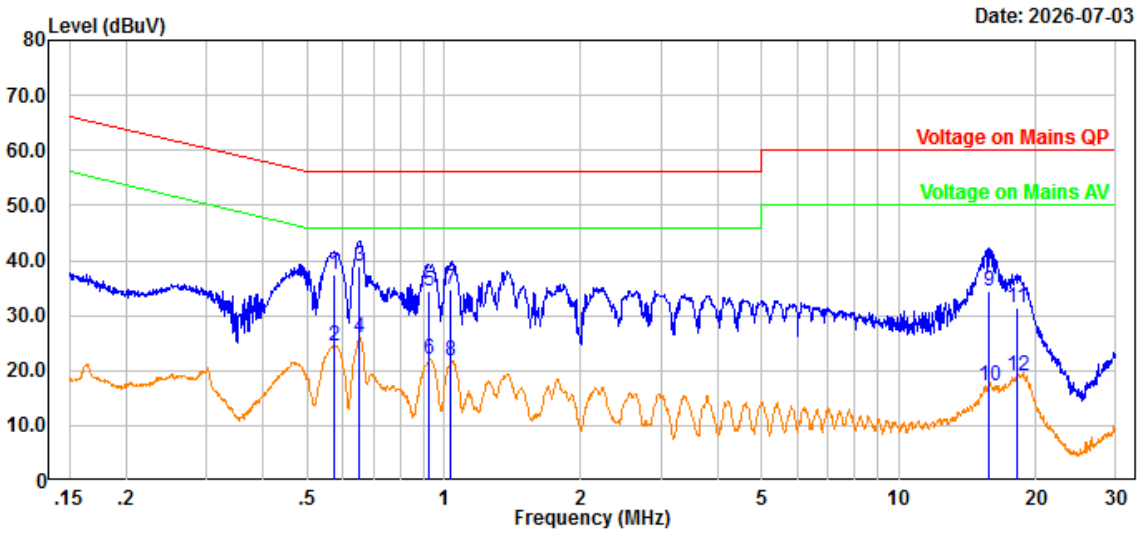
** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:
Please refer to the below plots.

Note: Low channel was tested.

Project No.: 2602T57655E-RF
Port: Line
Test Mode: Transmitting
IF B/W 9kHz PK/AV

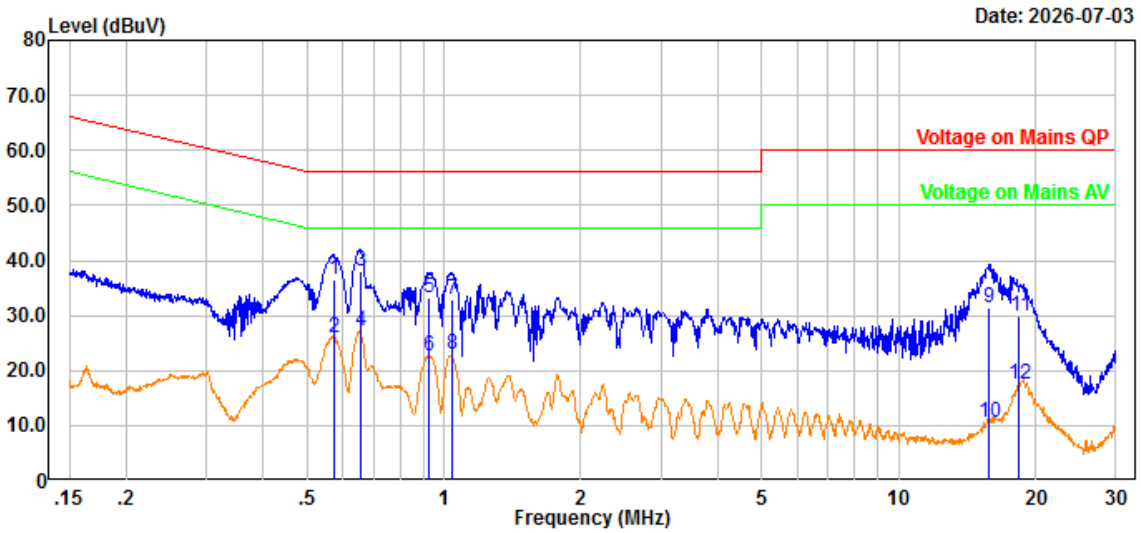
Serial No.: 3OEV-2
Tester: Ethan Wu
Note: Lora 500K



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Measurement
1	0.572	26.74	10.56	37.30	56.00	18.70	QP
2	0.572	13.77	10.56	24.33	46.00	21.67	Average
3	0.653	28.61	10.48	39.09	56.00	16.91	QP
4	0.653	15.58	10.48	26.06	46.00	19.94	Average
5	0.928	23.78	10.75	34.53	56.00	21.47	QP
6	0.928	11.31	10.75	22.06	46.00	23.94	Average
7	1.035	23.77	10.87	34.64	56.00	21.36	QP
8	1.035	10.93	10.87	21.80	46.00	24.20	Average
9	15.760	23.23	11.16	34.39	60.00	25.61	QP
10	15.760	5.92	11.16	17.08	50.00	32.92	Average
11	18.200	20.21	11.27	31.48	60.00	28.52	QP
12	18.200	7.76	11.27	19.03	50.00	30.97	Average

Project No.: 2602T57655E-RF
Port: neutral
Test Mode: Transmitting
IF B/W 9kHz PK/AV

Serial No.: 3OEV-2
Tester: Ethan Wu
Note: Lora 500K



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Measurement
1	0.573	26.06	10.49	36.55	56.00	19.45	QP
2	0.573	15.41	10.49	25.90	46.00	20.10	Average
3	0.655	27.58	10.45	38.03	56.00	17.97	QP
4	0.655	16.81	10.45	27.26	46.00	18.74	Average
5	0.928	22.31	10.83	33.14	56.00	22.86	QP
6	0.928	11.90	10.83	22.73	46.00	23.27	Average
7	1.038	22.10	10.96	33.06	56.00	22.94	QP
8	1.038	11.88	10.96	22.84	46.00	23.16	Average
9	15.754	20.31	11.05	31.36	60.00	28.64	QP
10	15.754	-0.44	11.05	10.61	50.00	39.39	Average
11	18.431	18.85	11.11	29.96	60.00	30.04	QP
12	18.431	6.41	11.11	17.52	50.00	32.48	Average

5.2 Radiation Spurious Emissions

1) 9kHz - 1GHz

Serial Number:	3OEV-2	Test Date:	2026/7/13~2026/7/16
Test Site:	Chamber 10m	Test Mode:	Transmitting
Tester:	Brian Yang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.3~30.5	Relative Humidity: (%)	50~52	ATM Pressure: (kPa)	99.6~100

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop Antenna	6512	9706-1206	2023/10/25	2026/10/24
Sunol Sciences	Hybrid Antenna	JB3	A060611-1	2025/6/23	2028/6/22
Narda	Coaxial Attenuator	779-6dB	04269	2025/6/23	2028/6/22
Unknown	Coaxial Cable	C-NJNJ-50	C-1000-01	2026/6/15	2027/6/14
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-04	2026/6/15	2027/6/14
Unknown	Coaxial Cable	C-NJNJ-50	C-0530-01	2026/6/15	2027/6/14
Sonoma	Amplifier	310N	185914	2025/8/25	2026/8/24
R&S	EMI Test Receiver	ESR3	102453	2026/6/15	2027/6/14
Audix	Test Software	E3	191218 V9	N/A	N/A
E-Microwave	Band Rejection Filter	OBF-ZP-902-928-SMAF	OE01902428	2026/6/5	2027/6/4

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

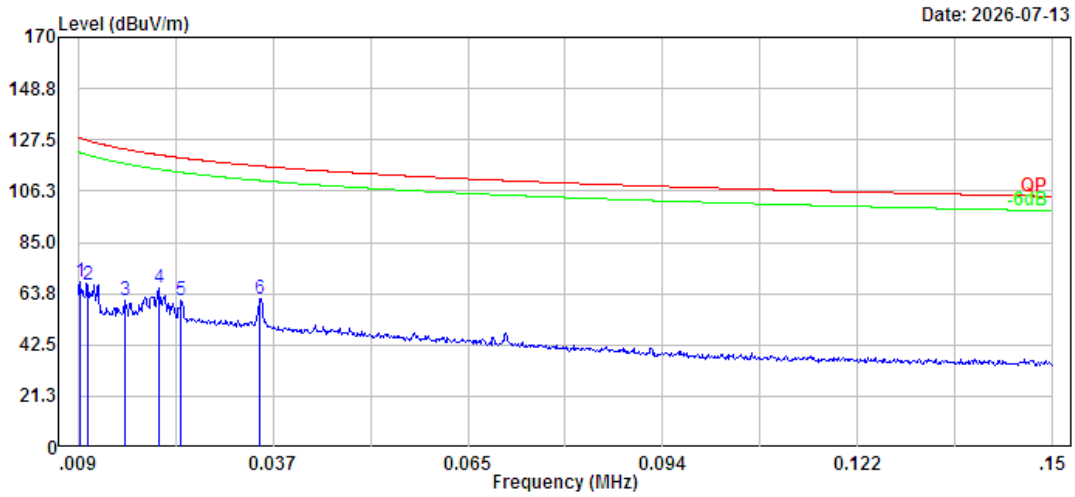
Please refer to the below plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case(Y axes) is refer to plots.

Note: Low channel was tested.

9kHz~30MHz:
Three antenna orientations (parallel, perpendicular, and ground-parallel) was measured, the worst orientations was below:

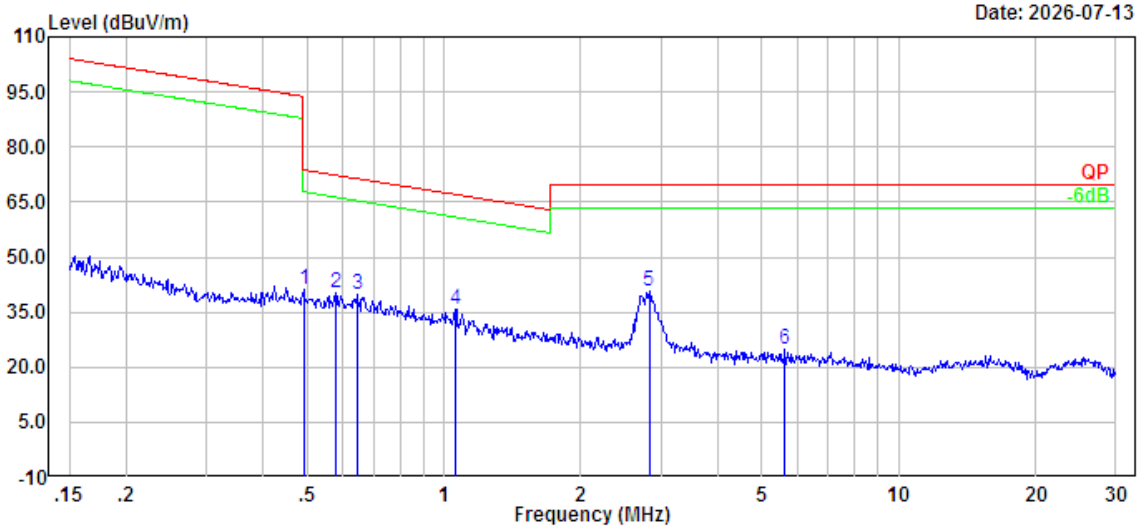
```
 Project No.: 2602T57655E-RF                    Serial No.: 3OEV-2
Polarization: Parallel                              Tester: Brian Yang
   Test Mode: Transmitting
        Note: 500k 903MHz
              RBW:200Hz,VBW:1kHz
```



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	0.009	13.49	55.24	68.73	128.25	59.52	Peak
2	0.010	12.51	55.08	67.59	127.26	59.67	Peak
3	0.016	7.29	53.76	61.05	123.57	62.52	Peak
4	0.021	13.13	52.66	65.79	121.28	55.49	Peak
5	0.024	8.84	52.08	60.92	120.02	59.10	Peak
6	0.035	11.81	49.81	61.62	116.63	55.01	Peak

Project No.: 2602T57655E-RF
Polarization: Parallel
Test Mode: Transmitting
Note: 500k 903MHz
RBW:9kHz,VBW:30kHz

Serial No.: 3OEV-2
Tester: Brian Yang

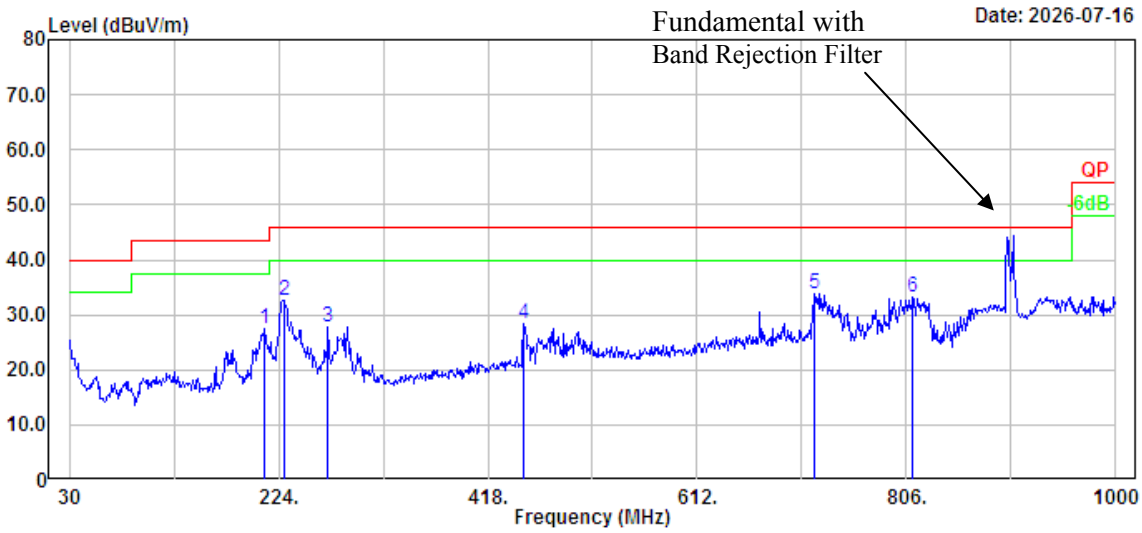


No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	0.492	15.43	25.68	41.11	73.77	32.66	Peak
2	0.576	15.50	24.83	40.33	72.36	32.03	Peak
3	0.644	15.77	24.10	39.87	71.38	31.51	Peak
4	1.060	17.59	18.21	35.80	66.96	31.16	Peak
5	2.824	28.67	12.19	40.86	69.54	28.68	Peak
6	5.623	16.69	8.35	25.04	69.54	44.50	Peak

30MHz-1GHz:

Project No.: 2602T57655E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: 500k 903MHz
RBW:120kHz,VBW:500kHz

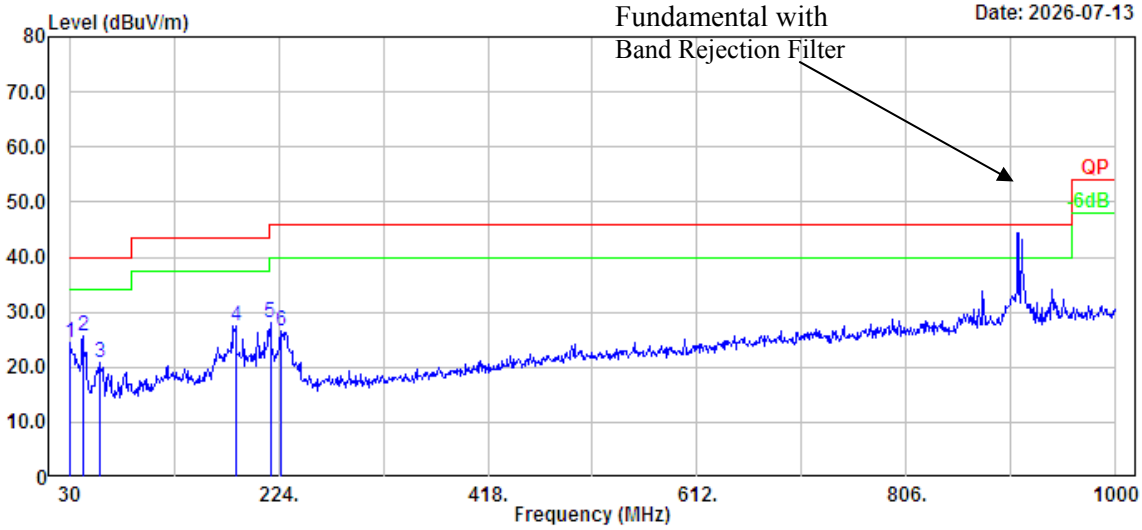
Serial No.: 3OEV-2
Tester: Brian Yang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	211.39	38.23	-10.83	27.40	43.50	16.10	Peak
2	229.82	44.16	-11.41	32.75	46.00	13.25	Peak
3	269.59	37.24	-9.45	27.79	46.00	18.21	Peak
4	450.98	33.55	-5.27	28.28	46.00	17.72	Peak
5	720.64	34.55	-0.62	33.93	46.00	12.07	Peak
6	811.82	32.31	1.05	33.36	46.00	12.64	Peak

Project No.: 2602T57655E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: 500k 903MHz
RBW:120kHz,VBW:500kHz

Serial No.: 3OEV-2
Tester: Brian Yang



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Measurement
1	30.97	26.63	-2.05	24.58	40.00	15.42	Peak
2	42.61	35.88	-10.10	25.78	40.00	14.22	Peak
3	58.13	35.46	-14.76	20.70	40.00	19.30	Peak
4	184.23	38.69	-11.29	27.40	43.50	16.10	Peak
5	216.24	39.18	-10.97	28.21	46.00	17.79	Peak
6	226.91	37.94	-11.33	26.61	46.00	19.39	Peak

2) 1-10GHz:

Serial Number:	3OEV-6	Test Date:	2026/7/14
Test Site:	Chamber B	Test Mode:	Transmitting
Tester:	Lancer Zhang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	27	Relative Humidity: (%)	51	ATM Pressure: (kPa)	99.6

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	000 527 35	2023/9/7	2026/9/6
Xinhang Macrowave	Coaxial Cable	XH750A-N/J-SMA/J-10M	20231117004 #0001	2025/11/14	2026/11/13
AH	Preamplifier	PAM-0118P	469	2026/5/18	2027/5/17
R&S	Spectrum Analyzer	FSV40	101944	2025/8/8	2026/8/7
Audix	Test Software	E3	191218 V9	N/A	N/A
Decentest	Multiplex Switch Test Control Set & Filter Switch Unit	DT7220SCU & DT7220FSU	DS79902 & DS79905	2026/4/17	2027/4/16

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

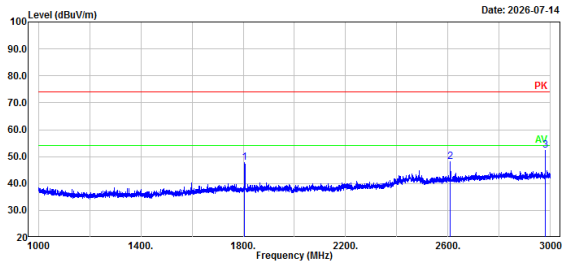
Please refer to the below plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case(X axes) is refer to plots.

1-10GHz:

Low Channel, Horizontal

Project No.: 2602T57655E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: SRD 500K low channel 903MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3OEV-6
Tester: Lancer Zhang

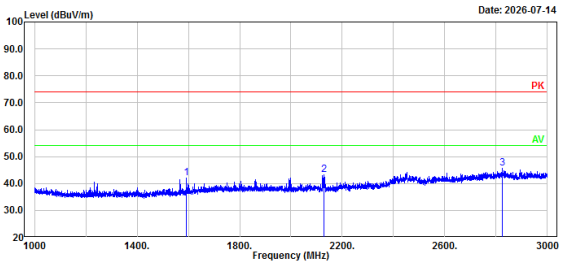


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	1806.00	57.29	-9.44	47.85	74.00	26.15	Peak
2	2609.60	53.98	-5.80	48.18	74.00	25.82	Peak
3	2979.60	56.45	-4.03	52.42	74.00	21.58	Peak

Low Channel, Vertical

Project No.: 2602T57655E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: SRD 500K low channel 903MHz
Peak:RBW:1MHz,VBW:3MHz

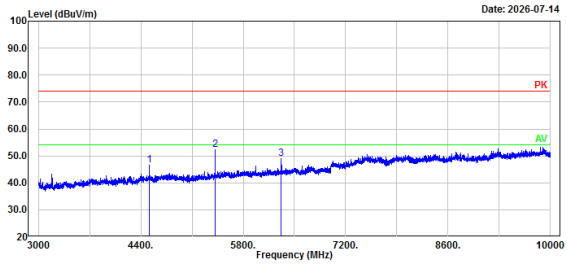
Serial No.: 3OEV-6
Tester: Lancer Zhang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	1592.80	52.03	-9.84	42.19	74.00	31.81	Peak
2	2127.60	51.16	-7.82	43.34	74.00	30.66	Peak
3	2824.80	50.23	-4.72	45.51	74.00	28.49	Peak

Project No.: 2602T57655E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: SRD 500K low channel 903MHz
Peak:RBW:1MHz,VBW:3MHz

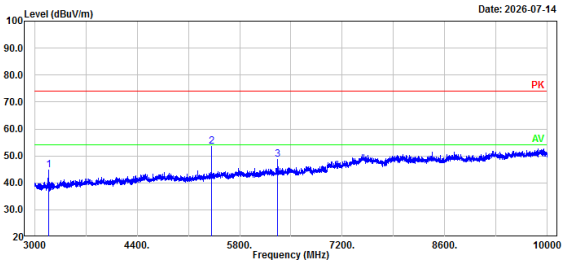
Serial No.: 3OEV-6
Tester: Lancer Zhang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	4513.40	53.36	-6.86	46.50	74.00	27.50	Peak
2	5416.40	58.49	-6.07	52.42	74.00	21.58	Peak
3	6320.80	53.45	-4.58	48.87	74.00	25.13	Peak

Project No.: 2602T57655E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: SRD 500K low channel 903MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3OEV-6
Tester: Lancer Zhang

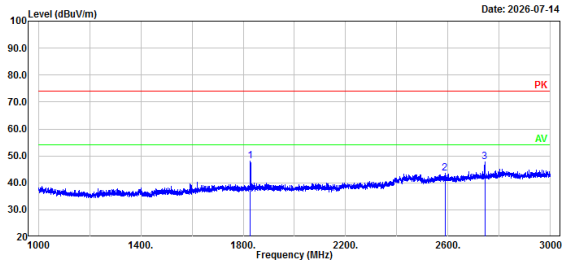


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	3196.00	52.83	-8.13	44.70	74.00	29.30	Peak
2	5416.40	59.64	-6.07	53.57	74.00	20.43	Peak
3	6320.80	53.21	-4.58	48.63	74.00	25.37	Peak

Middle Channel, Horizontal

Project No.: 2602T57655E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: SRD 500K middle channel 914.2MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3OEV-6
Tester: Lancer Zhang

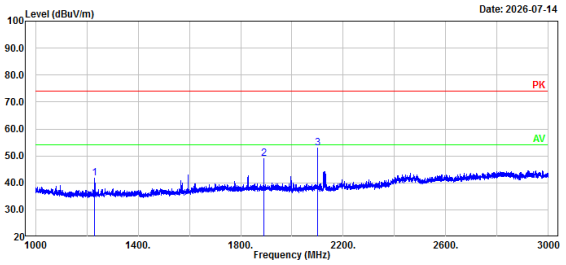


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	1828.00	57.30	-9.31	47.99	74.00	26.01	Peak
2	2587.60	49.64	-6.03	43.61	74.00	30.39	Peak
3	2743.20	52.73	-5.04	47.69	74.00	26.31	Peak

Middle Channel, Vertical

Project No.: 2602T57655E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: SRD 500K middle channel 914.2MHz
Peak:RBW:1MHz,VBW:3MHz

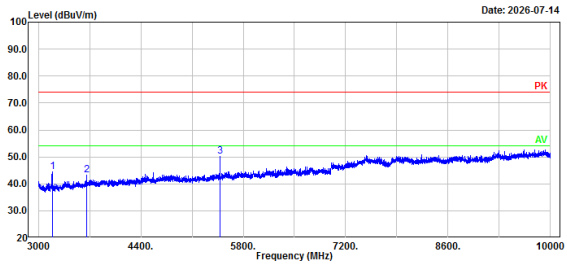
Serial No.: 3OEV-6
Tester: Lancer Zhang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	1231.20	51.25	-9.49	41.76	74.00	32.24	Peak
2	1890.80	58.01	-9.06	48.95	74.00	25.05	Peak
3	2100.00	60.59	-7.60	52.99	74.00	21.01	Peak

Project No.: 2602T57655E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: SRD 500K middle channel 914.2MHz
Peak:RBW:1MHz,VBW:3MHz

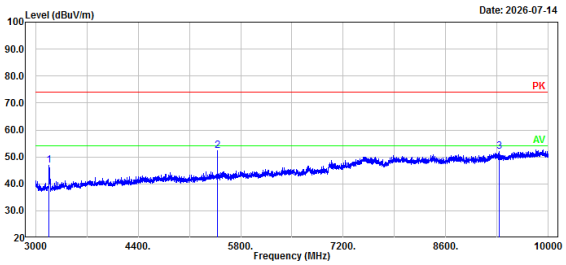
Serial No.: 3OEV-6
Tester: Lancer Zhang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	3196.00	52.54	-8.13	44.41	74.00	29.59	Peak
2	3656.60	51.37	-7.99	43.38	74.00	30.62	Peak
3	5485.00	56.16	-5.91	50.25	74.00	23.75	Peak

Project No.: 2602T57655E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: SRD 500K middle channel 914.2MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3OEV-6
Tester: Lancer Zhang

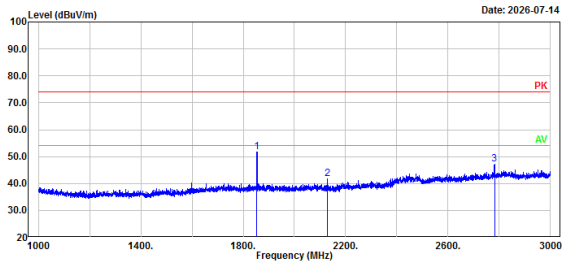


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	3184.80	54.87	-8.11	46.76	74.00	27.24	Peak
2	5486.40	58.34	-5.91	52.43	74.00	21.57	Peak
3	9332.20	51.18	0.87	52.05	74.00	21.95	Peak

High Channel, Horizontal

Project No.: 2602T57655E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: SRD 500K high channel 926.9MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3OEV-6
Tester: Lancer Zhang

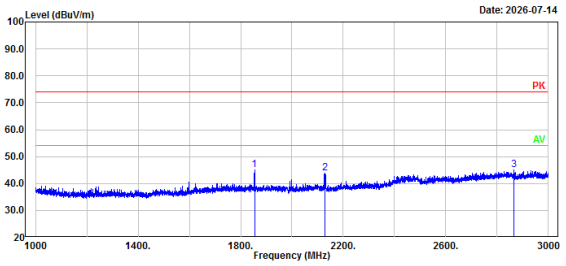


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	1853.60	61.12	-9.28	51.84	74.00	22.16	Peak
2	2128.00	49.58	-7.82	41.76	74.00	32.24	Peak
3	2781.20	52.12	-4.86	47.26	74.00	26.74	Peak

High Channel, Vertical

Project No.: 2602T57655E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: SRD 500K high channel 926.9MHz
Peak:RBW:1MHz,VBW:3MHz

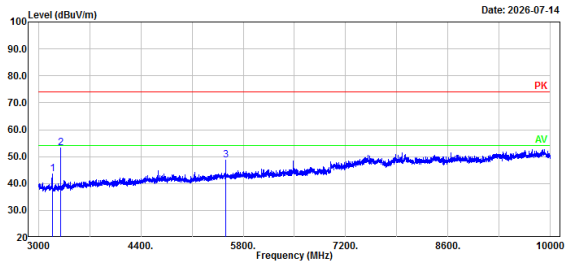
Serial No.: 3OEV-6
Tester: Lancer Zhang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	1854.00	54.47	-9.28	45.19	74.00	28.81	Peak
2	2127.20	51.65	-7.83	43.82	74.00	30.18	Peak
3	2864.80	49.38	-4.44	44.94	74.00	29.06	Peak

Project No.: 2602T57655E-RF
Polarization: Horizontal
Test Mode: Transmitting
Note: SRD 500K high channel 926.9MHz
Peak:RBW:1MHz,VBW:3MHz

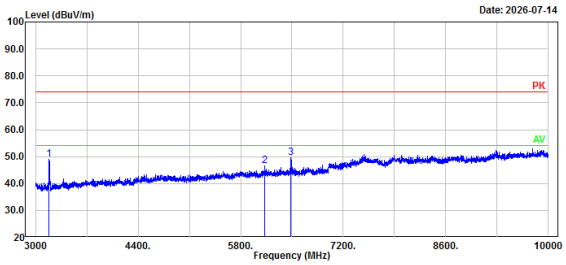
Serial No.: 3OEV-6
Tester: Lancer Zhang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	3191.80	51.60	-8.11	43.49	74.00	30.51	Peak
2	3305.20	61.65	-8.43	53.22	74.00	20.78	Peak
3	5560.60	54.27	-5.69	48.58	74.00	25.42	Peak

Project No.: 2602T57655E-RF
Polarization: Vertical
Test Mode: Transmitting
Note: SRD 500K high channel 926.9MHz
Peak:RBW:1MHz,VBW:3MHz

Serial No.: 3OEV-6
Tester: Lancer Zhang



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement
1	3187.60	57.17	-8.10	49.07	74.00	24.93	Peak
2	6130.40	51.29	-4.82	46.47	74.00	27.53	Peak
3	6487.40	53.81	-4.32	49.49	74.00	24.51	Peak

5.3 6dB Emission Bandwidth

Test Information:

Serial No.:	3OEV-7	**Test Date:**	2026/7/14
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Brooks Qin	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	26.7	**Relative Humidity: (%)**	67	**ATM Pressure: (kPa)**	99.6

Test Equipment List and Details:

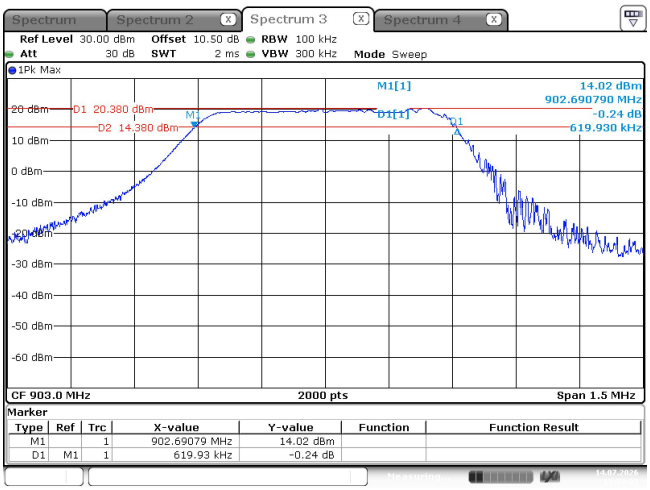
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2025/8/3	2026/8/2
R&S	Coaxial Attenuator	10dB	F-08-EM512	2026/3/30	2027/3/29

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

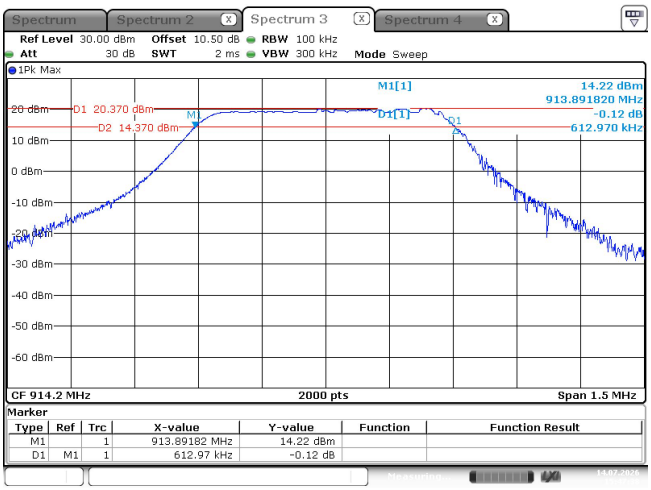
Test Channel	Test Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)
Lowest	903	0.620	⩾0.5
Middle	914.2	0.613	⩾0.5
Highest	926.9	0.624	⩾0.5

Low Channel



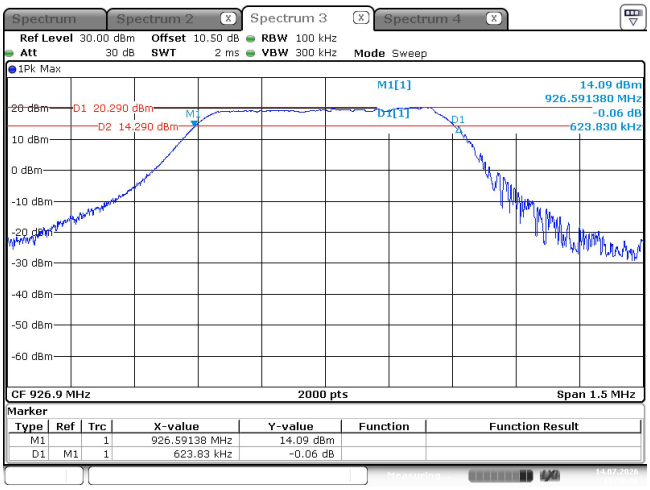
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 15:53:33

Middle Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 15:47:38

High Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 15:58:56

5.4 99% Occupied Bandwidth

Test Information:

Serial No.:	3OEV-7	**Test Date:**	2026/10/14
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Brooks Qin	**Test Result:**	N/A

Environmental Conditions:

Temperature: (°C)	25.6	**Relative Humidity: (%)**	68	**ATM Pressure: (kPa)**	101.1

Test Equipment List and Details:

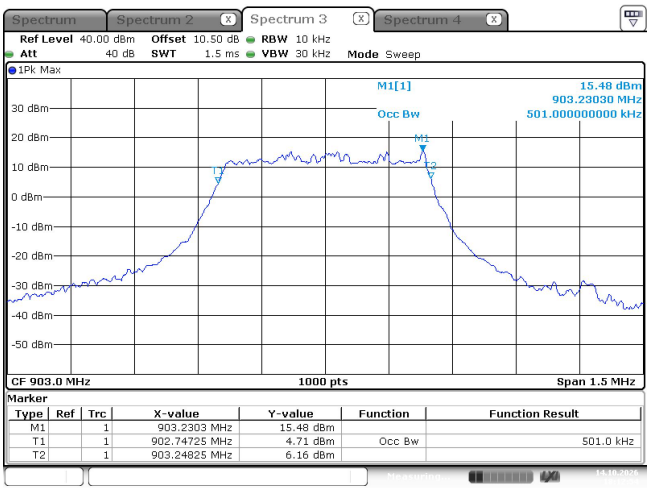
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101589	2026/3/28	2027/3/27
R&S	Coaxial Attenuator	10dB	F-08-EM512	2026/3/30	2027/3/29

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

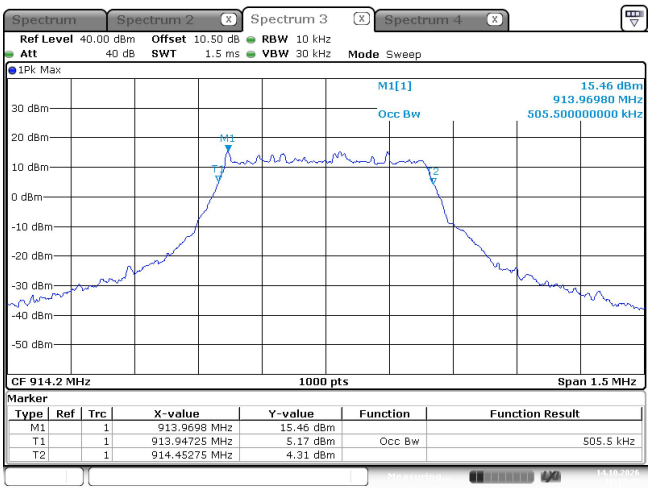
Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (MHz)
Lowest	903	0.501
Middle	914.2	0.506
Highest	926.9	0.503

Low Channel



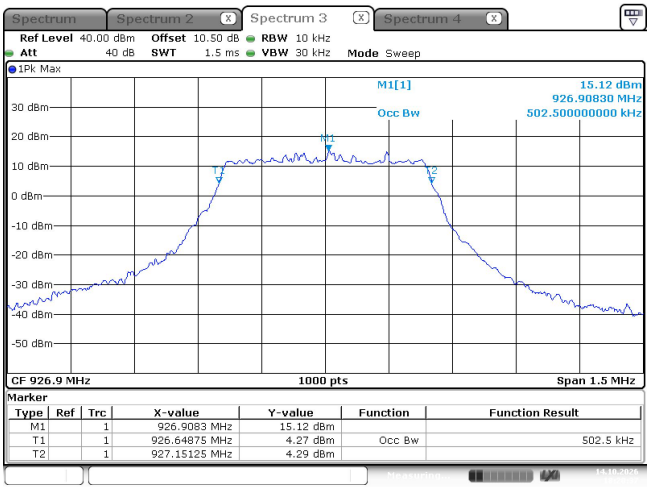
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.OCT.2026 18:12:53

Middle Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.OCT.2026 18:17:45

High Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.OCT.2026 18:20:37

5.5 Maximum Conducted Output Power

Test Information:

Serial No.:	3OEV-7	**Test Date:**	2026/7/14
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Brooks Qin	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	26.7	**Relative Humidity: (%)**	67	**ATM Pressure: (kPa)**	99.6

Test Equipment List and Details:

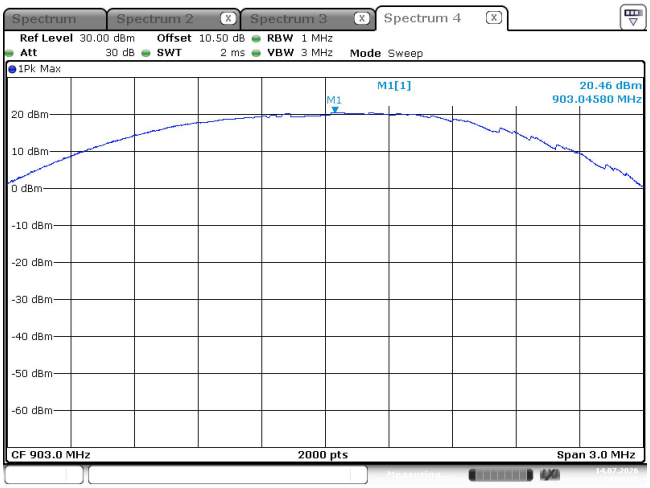
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101947	2025/7/28	2026/7/27
R&S	Coaxial Attenuator	10dB	F-08-EM512	2026/3/30	2027/3/29

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

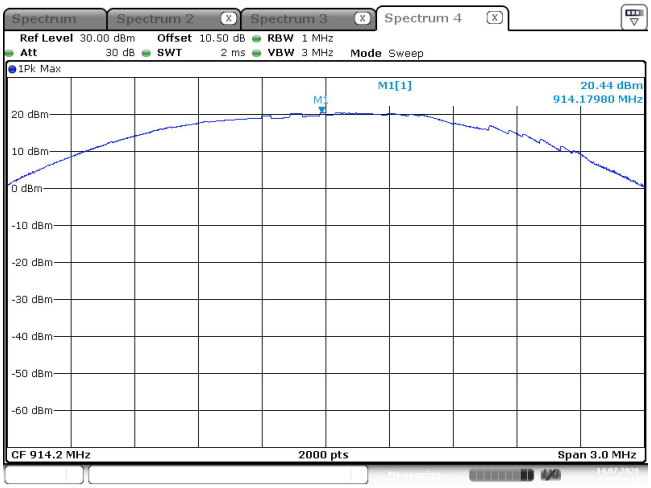
Test Channel	Test Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)
Lowest	903	20.46	≤30
Middle	914.2	20.44	≤30
Highest	926.9	20.35	≤30
Max.EIRP:	17.1	dBm	
EIRP Limit for RSS-247:36 dBm			

Low Channel



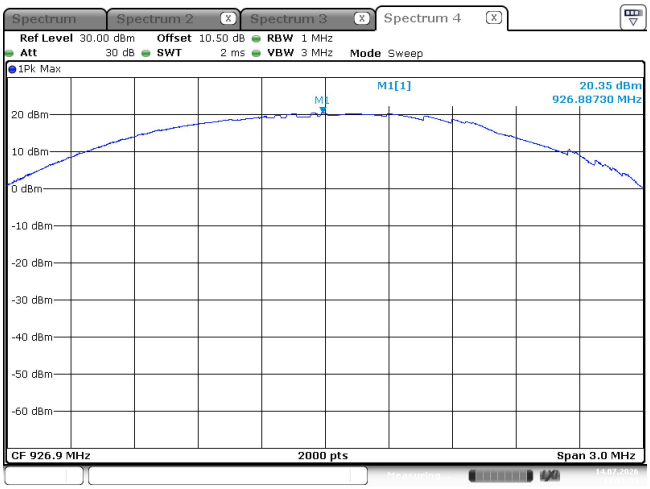
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 14:07:36

Middle Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 14:14:12

High Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 13:51:54

5.6 Power Spectral Density

Test Information:

Serial No.:	3OEV-7	**Test Date:**	2026/7/14
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Brooks Qin	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	26.7	**Relative Humidity: (%)**	67	**ATM Pressure: (kPa)**	99.6

Test Equipment List and Details:

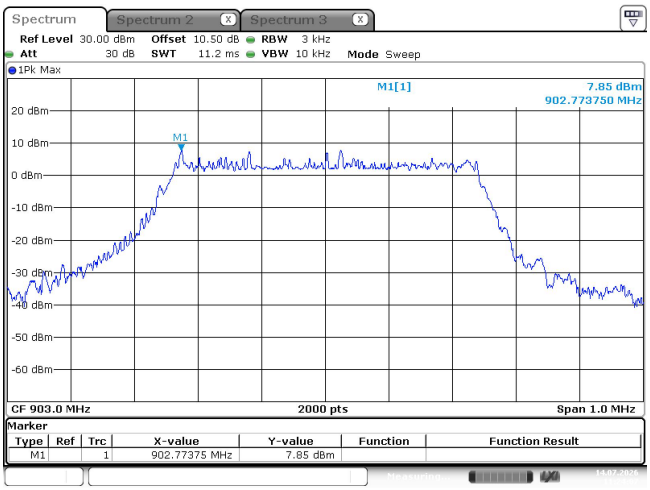
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2025/8/3	2026/8/2
R&S	Coaxial Attenuator	10dB	F-08-EM512	2026/3/30	2027/3/29

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

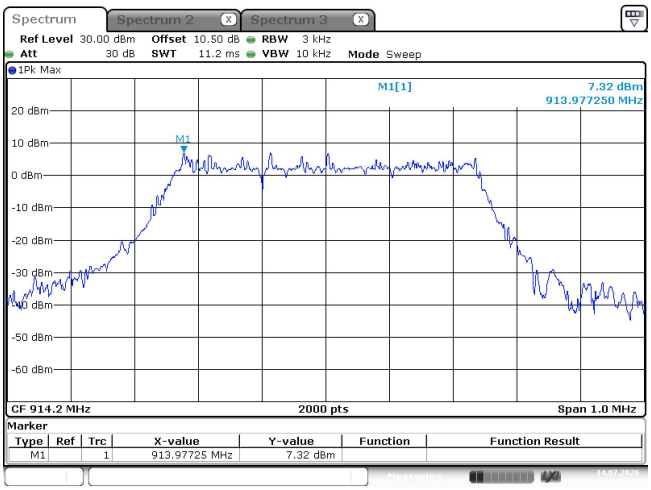
Test Channel	Test Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
Lowest	903	7.85	≤8.00
Middle	914.2	7.32	≤8.00
Highest	926.9	7.28	≤8.00

Low Channel



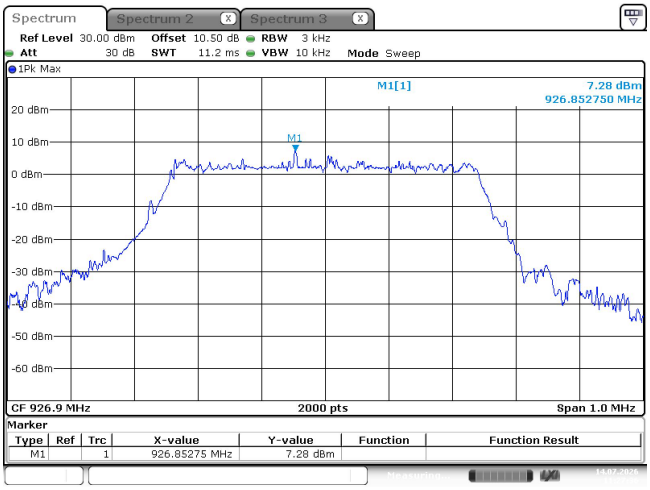
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 11:24:07

Middle Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 11:25:37

High Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 11:27:36

5.7 Conducted Spurious Emission

Test Information:

Serial No.:	3OEV-7	**Test Date:**	2026/7/14~2026/08/06
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Brooks Qin	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C)	25.8~26.7	**Relative Humidity: (%)**	64~67	**ATM Pressure: (kPa)**	99.6~99.9

Test Equipment List and Details:

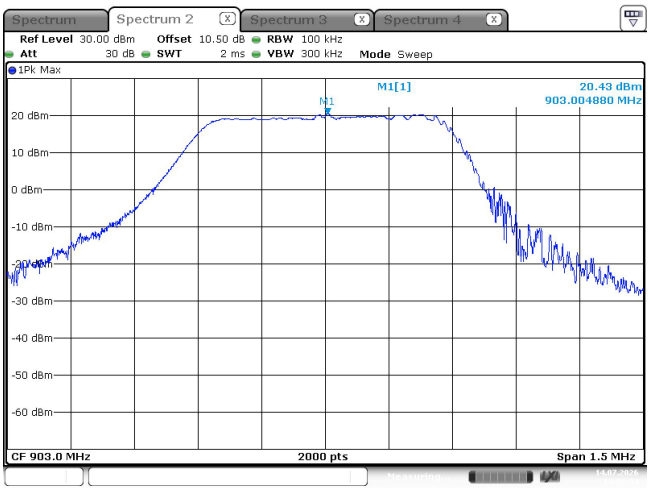
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2025/8/3	2026/8/2
R&S	Spectrum Analyzer	FSV40	101589	2026/3/28	2027/3/27
R&S	Coaxial Attenuator	10dB	F-08-EM512	2026/3/30	2027/3/29

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

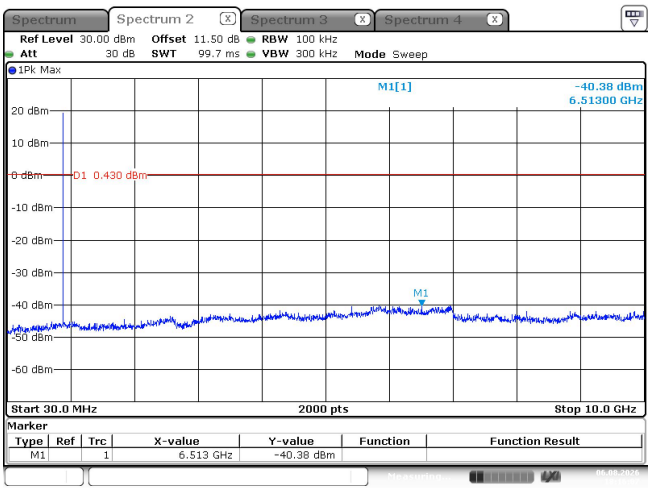
Note: The maximum path attenuation of 30MHz-10GHz was added into the offset.

Low Channel



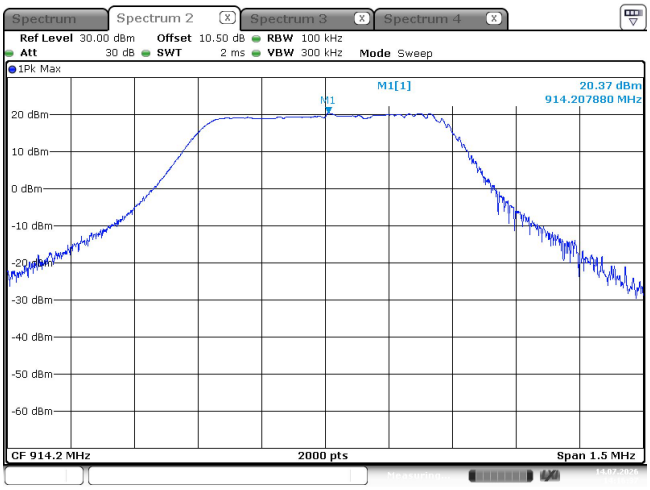
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 14:09:54

Low Channel



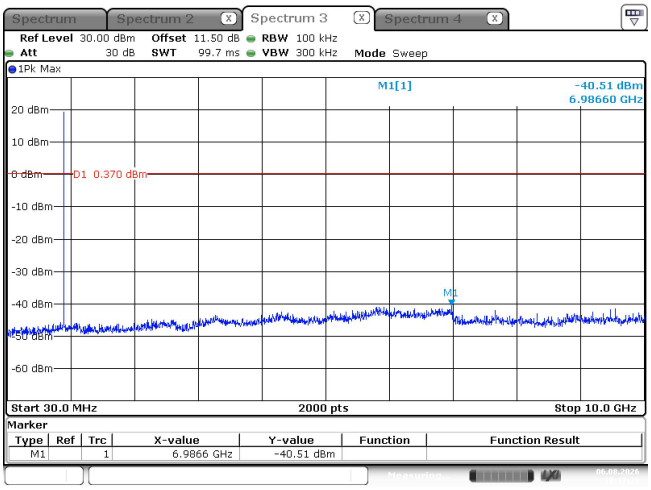
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 6.AUG.2026 18:16:08

Middle Channel



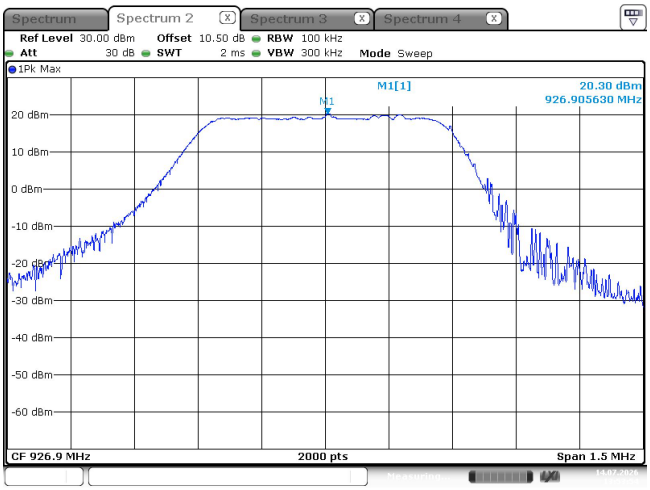
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 14:16:37

Middle Channel



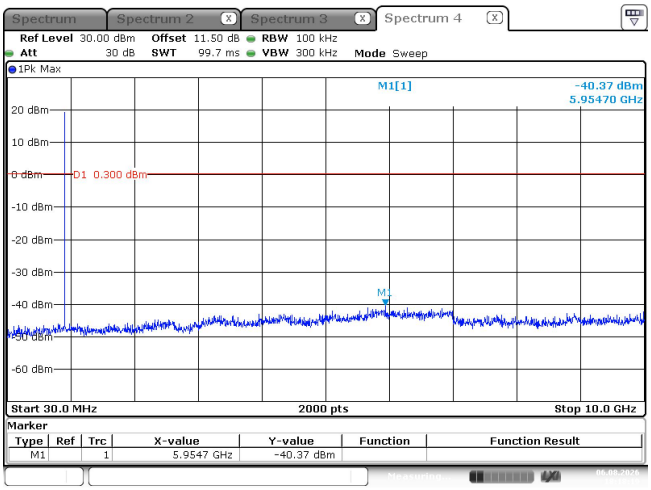
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 6.AUG.2026 18:17:21

High Channel



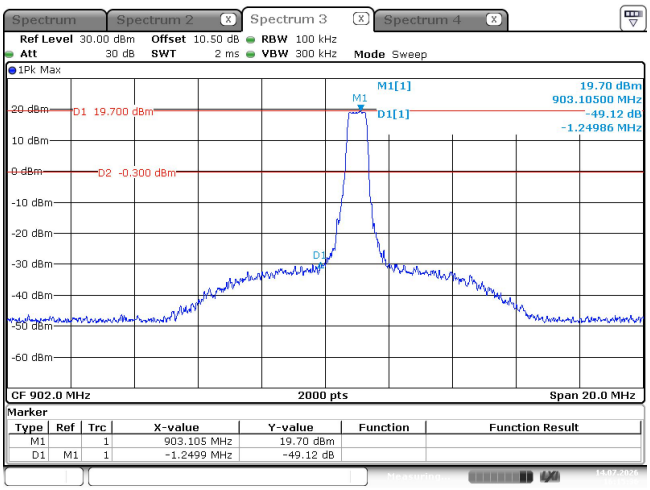
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 13:53:54

High Channel



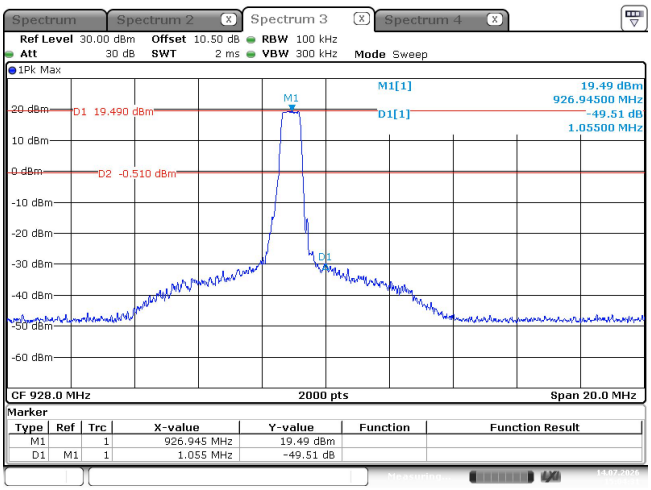
ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 6.AUG.2026 18:18:20

Low Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 16:15:37

High Channel



ProjectNo.:2602T57655E-RF Tester:Brooks Qin
Date: 14.JUL.2026 15:04:31

5.8 Duty Cycle

Test Information:

Serial No.:	3OEV-7	**Test Date:**	2026/7/14
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Brooks Qin	**Test Result:**	N/A

Environmental Conditions:

Temperature: (°C)	26.7	**Relative Humidity: (%)**	67	**ATM Pressure: (kPa)**	99.6

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2025/8/3	2026/8/2
R&S	Coaxial Attenuator	10dB	F-08-EM512	2026/3/30	2027/3/29

** Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Test Frequency (MHz)	Ton (ms)	Ton+off (ms)	Duty cycle (%)	1/T (Hz)	VBW Setting (kHz)
914.2	26.812	133.308	20.11	37.30	0.05

Middle Channel

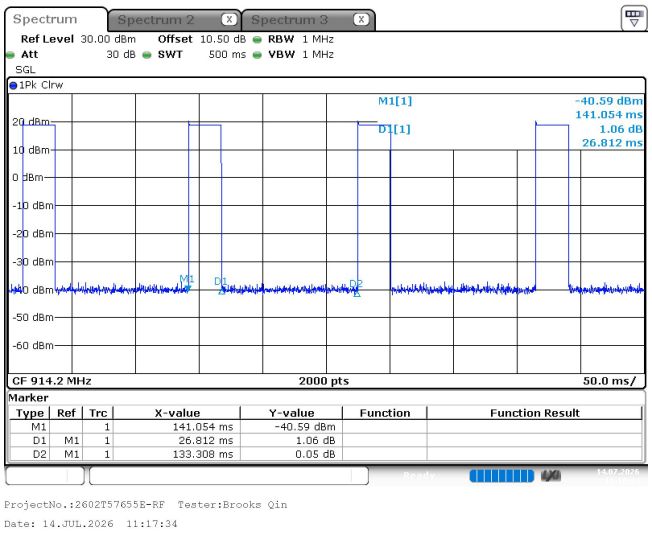


EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2602T57655E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2602T57655E-RF-INP EUT INTERNAL PHOTOGRAPHS.

EXHIBIT B - TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2602T57655E-RF-00C-TSP TEST SETUP PHOTOGRAPHS.

******* END OF REPORT *******