



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Atmotech Inc

Address: 100 Pine St, Suite 1250, San Francisco, California, United States

FCC ID: 2BBL8-ATMO-TU2

Product Name: The Portable Air Pollution Monitor

Standard(s): 47 CFR Part 15, Subpart C(15.247)
ANSI C63.10-2020
KDB 558074 D01 15.247 Meas Guidance v05r02

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: 2503Y81182E-RF-00A

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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.

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	2503Y81182E-RF-00A	Original Report	2025-12-02

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General

EUT Name:	The Portable Air Pollution Monitor
EUT Model:	Atmotube PRO 2
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	5.73dBm
Modulation Type:	GFSK
Rated Input Voltage:	3.7Vdc from battery or 5Vdc from USB port
Sample Number:	3B6V-1(for RF Conducted Test) 3B6V-2(for AC line conducted emissions &Radiated Spurious Emissions Test)
EUT Received Date:	2025.10.17
EUT Received Status:	Good

1.1.2 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2442
1	2404	...	...
...	...	...	...
...	...	...	...
...	...	38	2478
19	2440	39	2480

Per section 15.31(m), the below frequencies were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2440
Highest	2480

1.1.3 Antenna Information Detail ▲

Antenna Type	input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
Chip	50	2400-2500	1.3

The Method of §15.203 Compliance:



Antenna was permanently attached to the unit.



Antenna use a unique type of connector to attach to the EUT.



Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.1.4 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	

1.2 Description of Test Configuration**1.2.1 EUT Operation Condition:**

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.		
Equipment Modifications:	No		
EUT Exercise Software:	nRF Connect for Desktop		
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
1Mbps	8	8	8

1.2.2 Support Equipment List and Details

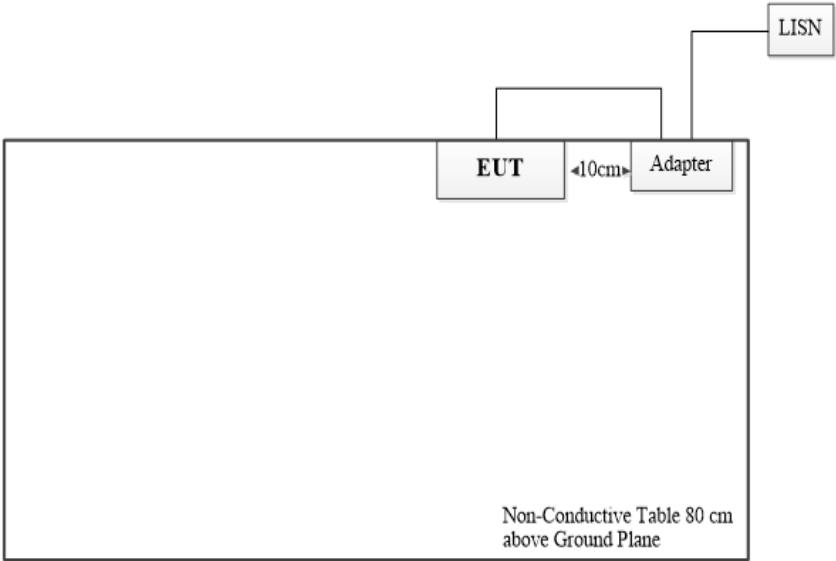
Manufacturer	Description	Model	Serial Number
Jian Aohai	Adapter	A8-050200U-US3	AD220930002

1.2.3 Support Cable List and Details

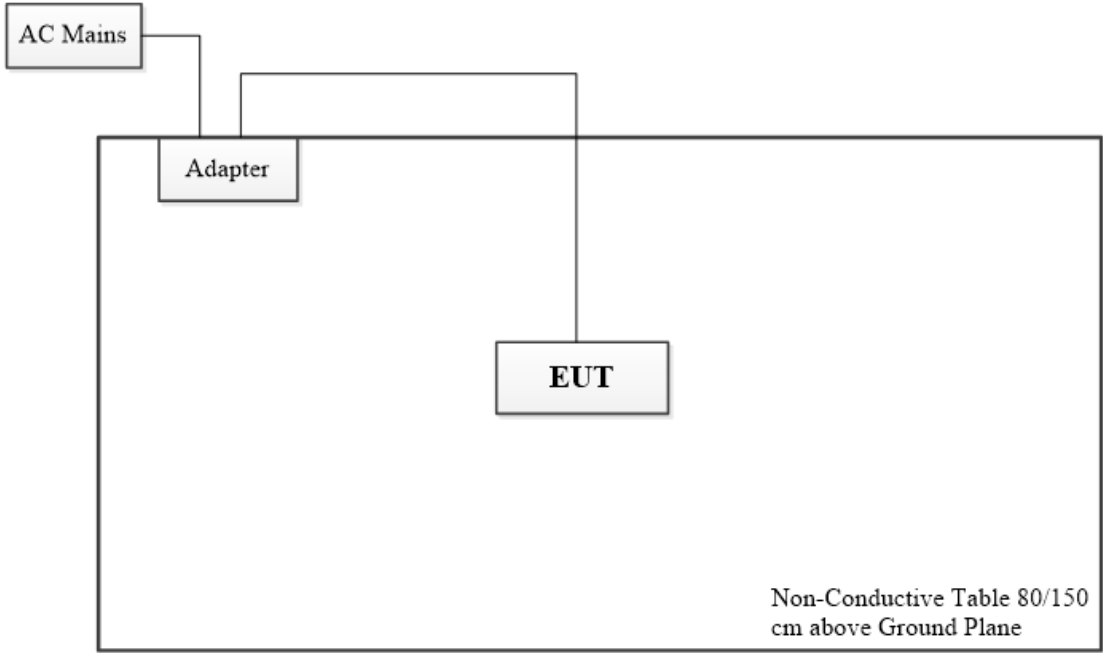
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1	EUT	Adapter

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Spurious Emissions:



1.3 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	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	9k~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
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	Radiated Spurious Emission	Compliant
FCC §15.207(a)(2)	6dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
FCC §15.247(b)(1)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	Conducted Spurious Emission	Compliant
FCC §15.247(e)	Power Spectral Density	Compliant
C63.10 §11.6	Duty Cycle	Compliant
FCC §1.1307& §2.1093& §15.247 (i)	RF Exposure	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:

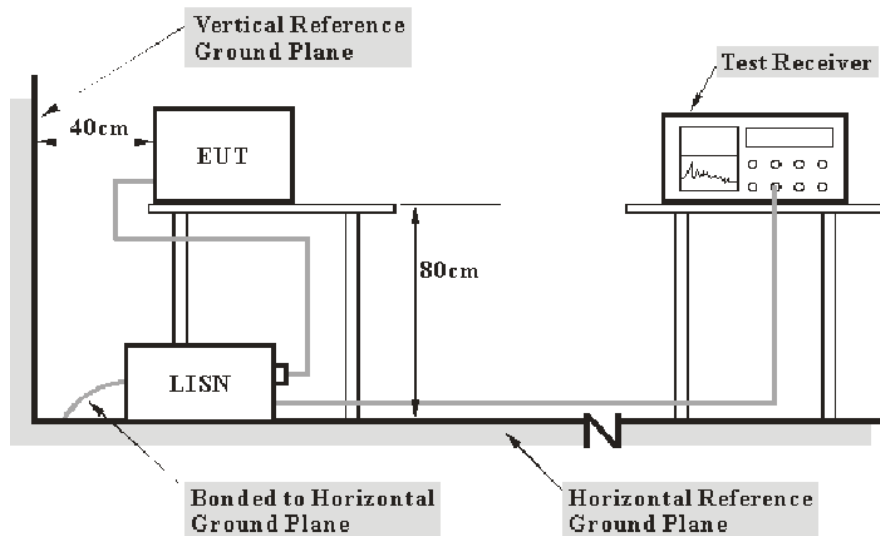
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(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.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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

The spacing between the peripherals was 10 cm.

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 Radiation Spurious Emissions

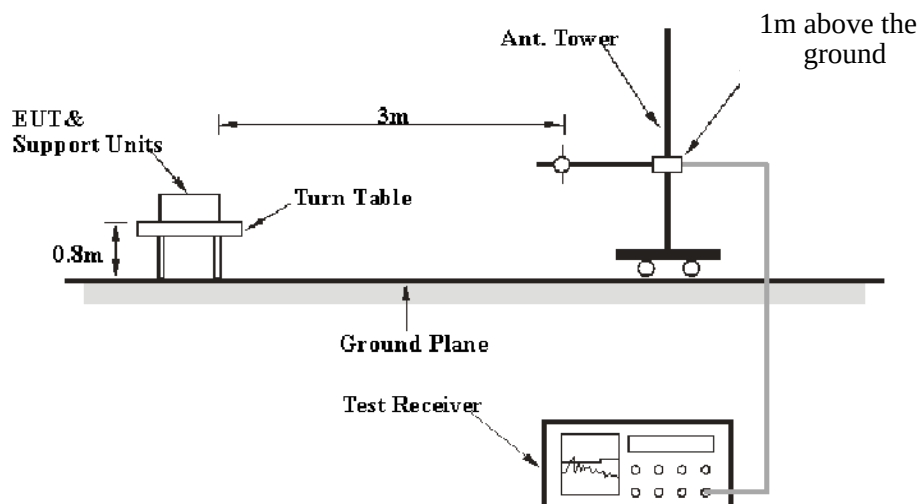
3.2.1 Applicable Standard

FCC §15.247 (d);

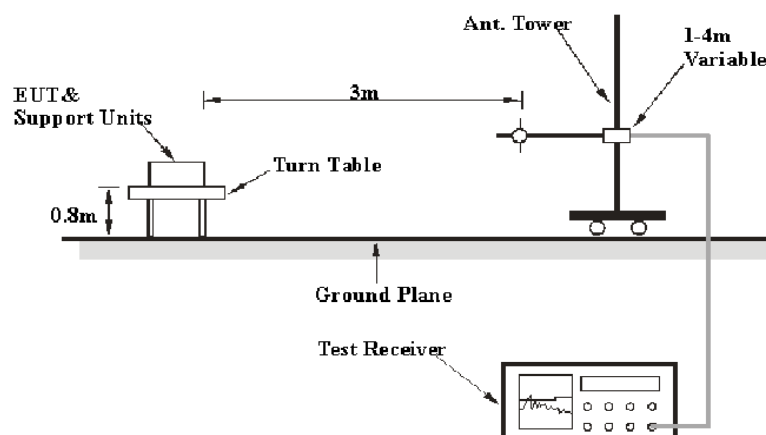
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

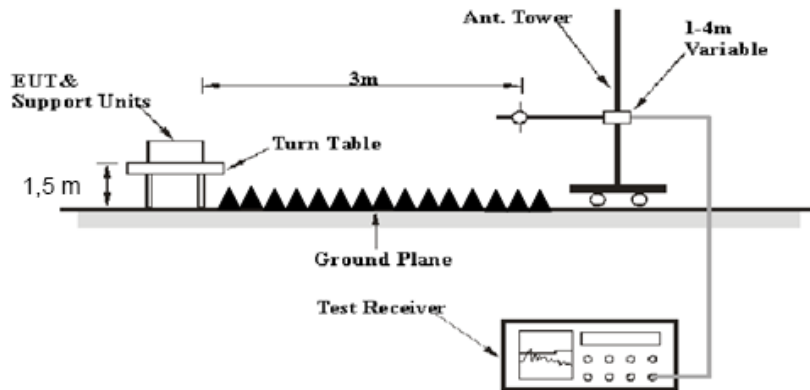
3.2.2 EUT Setup

9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Detector	Measurement
9 kHz – 150 kHz	300 Hz	1 kHz	/	Peak	PK
	/	/	200 Hz	Quasi Peak/ Average	QP/AV
150 kHz – 30 MHz	10 kHz	30 kHz	/	Peak	PK
	/	/	9 kHz	Quasi Peak/ Average	QP/AV
30MHz – 1000 MHz	120 kHz	500 kHz	/	Peak	PK
	/	/	120kHz	Quasi Peak	QP

1GHz- 25GHz:

Pre-scan:

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
Ave.	>98%	1MHz	5 kHz	Peak
	<98%	1MHz	$\geq 1/T$, not less than 5 kHz	Peak

Note: T is minimum transmission duration

Final measurement for emission identified during the pre-scan:

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

Note: T is minimum transmission duration

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

The spurious emissions which below the limit more than 20dB was not be recorded.

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 recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9–90 kHz, 110–490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

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

3.2.5 Corrected Amplitude & Margin Calculation

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

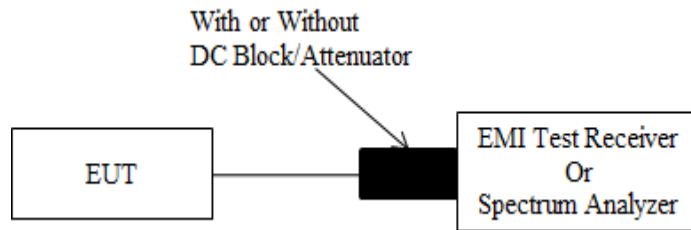
3.3 Minimum 6 dB Bandwidth

3.3.1 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.

3.3.2 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.

3.3.3 Test Procedure

According to ANSI C63.10-2020 Section 11.8

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- 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.

3.4 99% Occupied Bandwidth

3.4.1 Applicable Standard

3.4.2 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.

3.4.3 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 at least 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 spectral 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).

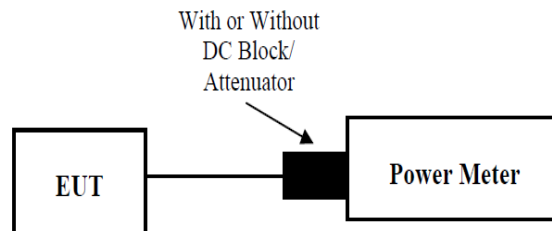
3.5 Maximum Conducted Output Power

3.5.1 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.

3.5.2 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.

3.5.3 Test Procedure

According to ANSI C63.10-2020 Section 11.9.1.2

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast responding diode detector.

- a) Set the EUT in transmitting mode.
- b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
- c) Add a correction factor to the display.
- d) Set the power meter to test peak output power, record the result.

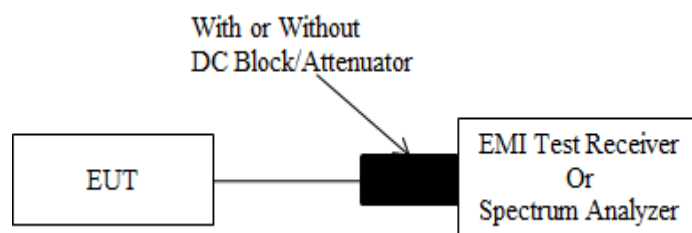
3.6 Maximum Power Spectral Density

3.6.1 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.

3.6.2 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.

3.6.3 Test Procedure

According to ANSI C63.10-2020 Section 11.10.2

- Set analyzer center frequency to DTS channel center frequency.
- Set the span >1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Sweep time = No faster than coupled (auto) time.
- Trace mode = max-hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

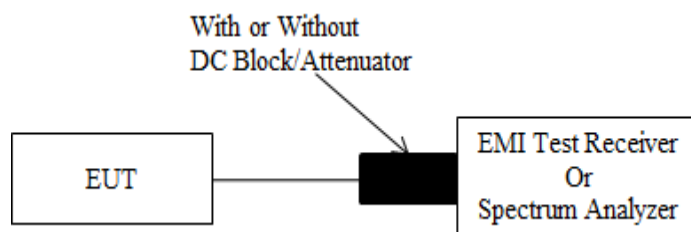
3.7 Conducted Spurious Emission

3.7.1 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)).

3.7.2 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.

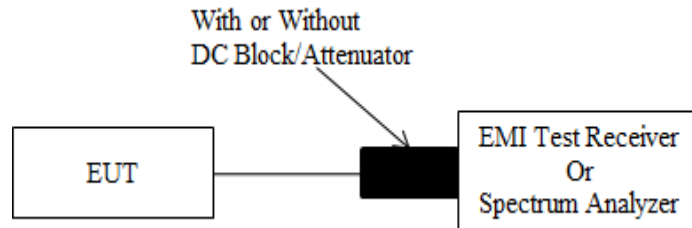
3.7.3 Test Procedure

According to ANSI C63.10-2020 Section 11.11

- a) Set the center frequency and span to encompass frequency range to be measured. Note that the frequency range might need to be divided into multiple frequency ranges to retain frequency resolution. NOTE—the number of points can also be increased for large spans to retain frequency resolution
 - b) Set the RBW = 100 kHz.
 - c) Set the VBW $\geq [3 \times \text{RBW}]$.
 - 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.

3.8 Duty Cycle

3.8.1 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.

3.8.2 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 $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. 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 $T \leq 16.7 \mu s$.)

3.9 Antenna Requirement

3.9.1 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.

3.9.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Sample Number:	3B6V-2	Test Date:	2025/11/26
Test Site:	CE	Test Mode:	Transmitting(maximum output power mode, BLE 1M middle channel)
Tester:	Harden Ding	Test Result:	Pass

Environmental Conditions:

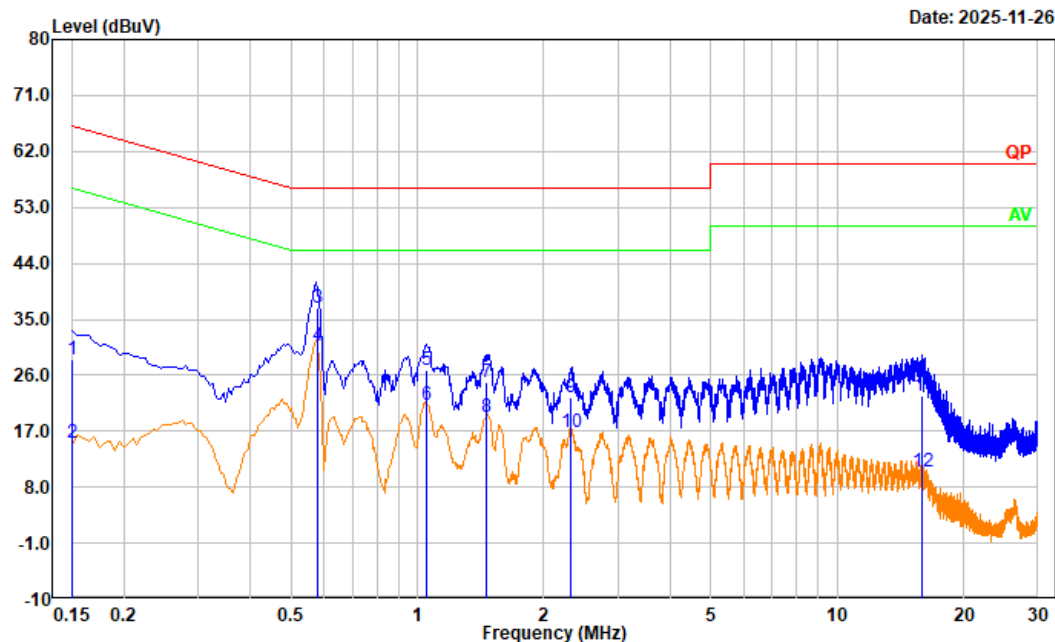
Temperature: (°C)	25	Relative Humidity: (%)	33	ATM Pressure: (kPa)	101.4
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Test Equipment List and Details:

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	2025/5/9	2026/5/8
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2025/1/6	2026/1/5
Audix	Test Software	E3	191218 (V9)	N/A	N/A

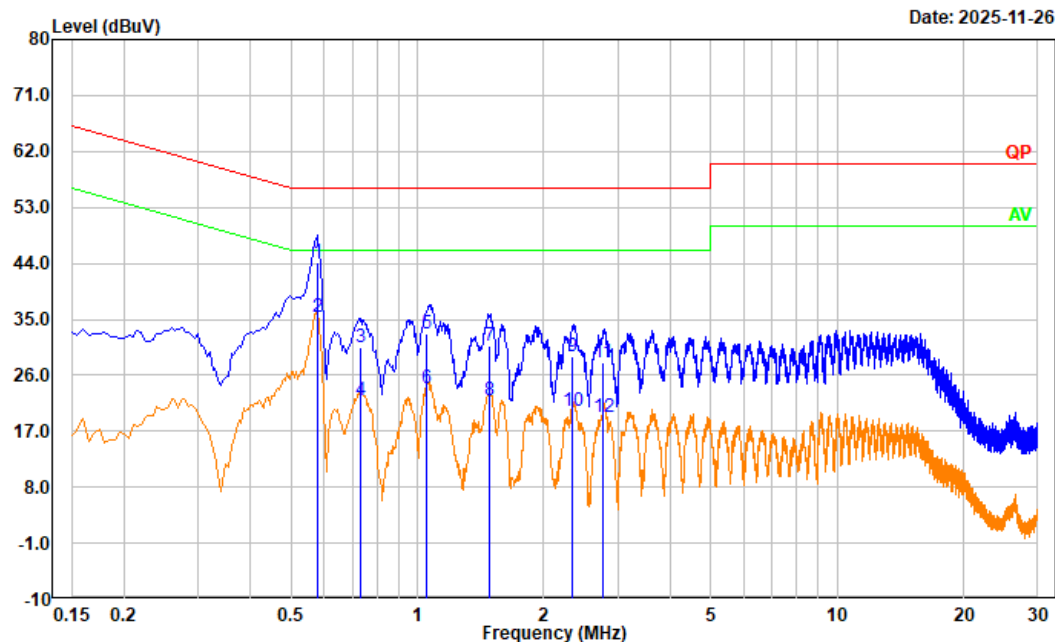
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Project No.: 2503Y81182E-RF
Tester: Harden Ding
Port: Line
Condition: RBW:9kHz
Test Mode: Transmitting
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.151	18.12	10.41	28.53	65.95	37.42	QP
2	0.151	4.66	10.41	15.07	55.95	40.88	Average
3	0.576	26.53	10.37	36.90	56.00	19.10	QP
4	0.576	20.41	10.37	30.78	46.00	15.22	Average
5	1.048	16.32	10.50	26.82	56.00	29.18	QP
6	1.048	10.65	10.50	21.15	46.00	24.85	Average
7	1.464	14.55	10.29	24.84	56.00	31.16	QP
8	1.464	8.89	10.29	19.18	46.00	26.82	Average
9	2.322	12.30	10.04	22.34	56.00	33.66	QP
10	2.322	6.68	10.04	16.72	46.00	29.28	Average
11	15.931	12.82	9.94	22.76	60.00	37.24	QP
12	15.931	0.44	9.94	10.38	50.00	39.62	Average

Project No.: 2503Y81182E-RF
Tester: Harden Ding
Port: neutral
Condition: RBW:9kHz
Test Mode: Transmitting
Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.579	34.10	10.15	44.25	56.00	11.75	QP
2	0.579	25.15	10.15	35.30	46.00	10.70	Average
3	0.730	20.35	10.22	30.57	56.00	25.43	QP
4	0.730	11.76	10.22	21.98	46.00	24.02	Average
5	1.055	22.42	10.33	32.75	56.00	23.25	QP
6	1.055	13.54	10.33	23.87	46.00	22.13	Average
7	1.478	20.20	10.42	30.62	56.00	25.38	QP
8	1.478	11.61	10.42	22.03	46.00	23.97	Average
9	2.339	18.53	10.49	29.02	56.00	26.98	QP
10	2.339	9.68	10.49	20.17	46.00	25.83	Average
11	2.768	17.55	10.45	28.00	56.00	28.00	QP
12	2.768	8.94	10.45	19.39	46.00	26.61	Average

4.2 Radiation Spurious Emissions

4.2.1 9 kHz – 1 GHz

Sample Number:	3B6V-2	Test Date:	2025/11/26
Test Site:	966-1	Test Mode:	Transmitting(maximum output power mode, BLE 1M middle channel)
Tester:	Jin He	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.4	Relative Humidity: (%)	39	ATM Pressure: (kPa)	101.4
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Test Equipment List and Details:

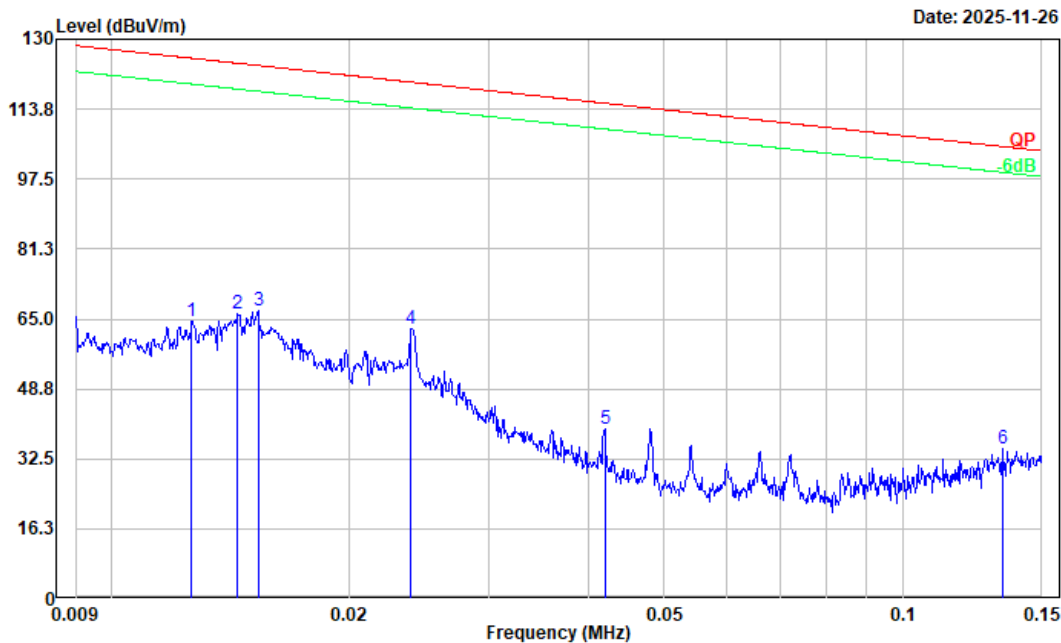
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
BACL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/1/10	2026/1/9
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/1/10	2026/1/9
R&S	EMI Test Receiver	ESR3	102724	2025/2/14	2026/2/13
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2024/12/3	2025/12/2
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2024/12/3	2025/12/2
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2025/6/4	2026/6/3
Sonoma	Amplifier	310N	186165	2024/12/3	2025/12/2
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:

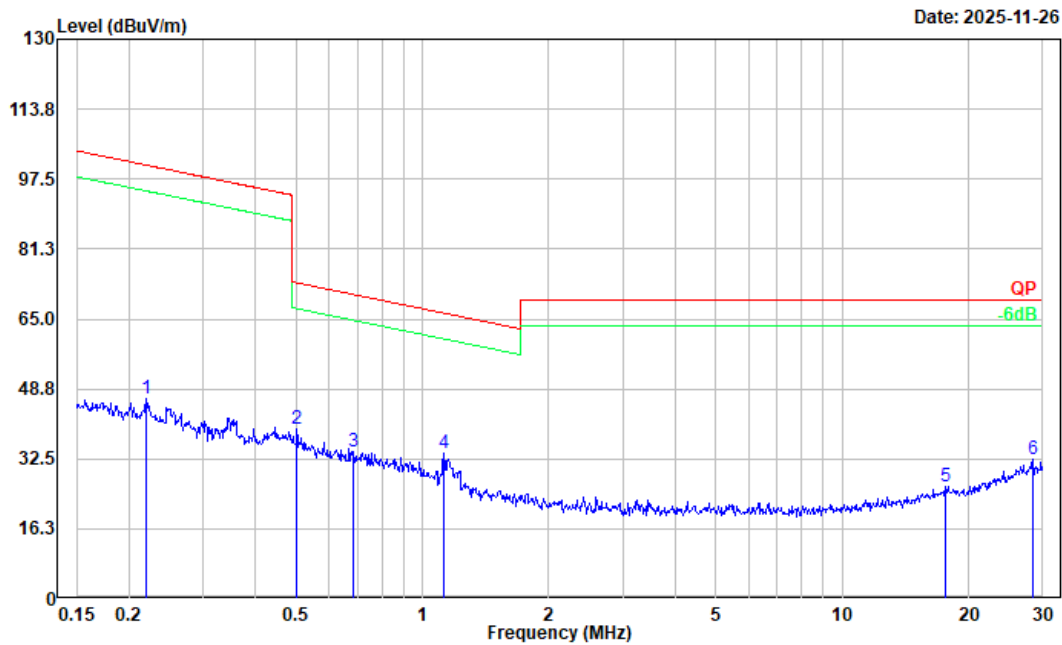
After pre-scan in the X, Y and Z axes of orientation, the worst case is refer to plots.

Project No.: 2503Y81182E-RF
Tester: Jin He
Condition: RBW:0.3 kHz VBW:1 kHz
Polarization: Parallel
Note: Transmitting



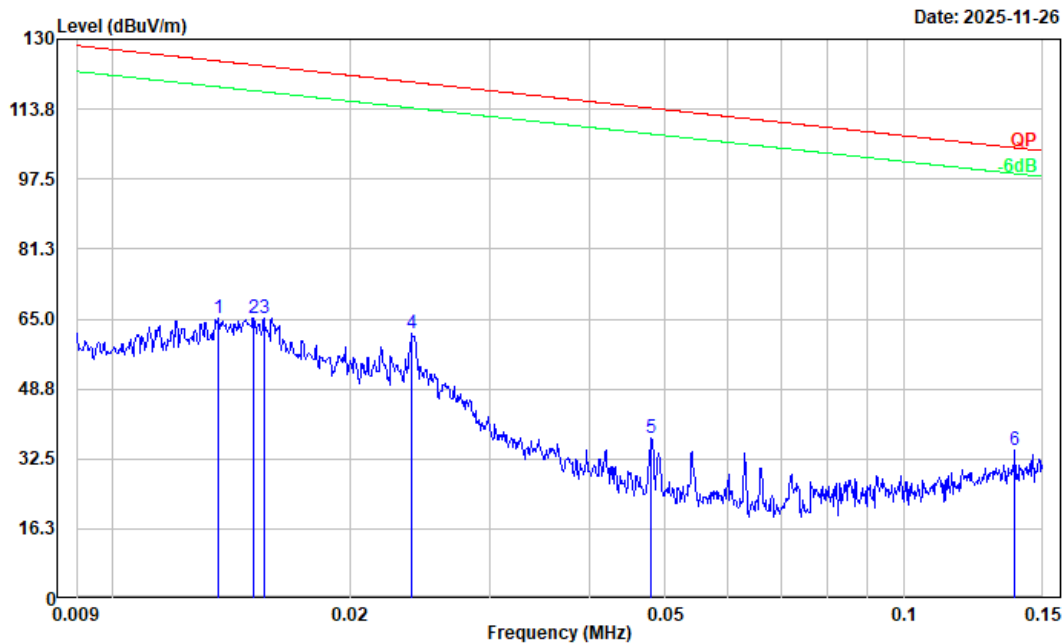
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.013	31.25	33.11	64.36	125.59	61.23	Peak
2	0.014	34.10	32.25	66.35	124.41	58.06	Peak
3	0.015	35.05	31.84	66.89	123.90	57.01	Peak
4	0.024	34.97	27.81	62.78	120.04	57.26	Peak
5	0.042	17.11	22.35	39.46	115.13	75.67	Peak
6	0.134	21.92	12.78	34.70	105.08	70.38	Peak

Project No.: 2503Y81182E-RF
Tester: Jin He
Condition: RBW:10 kHz VBW:30 kHz
Polarization: Parallel
Note: Transmitting



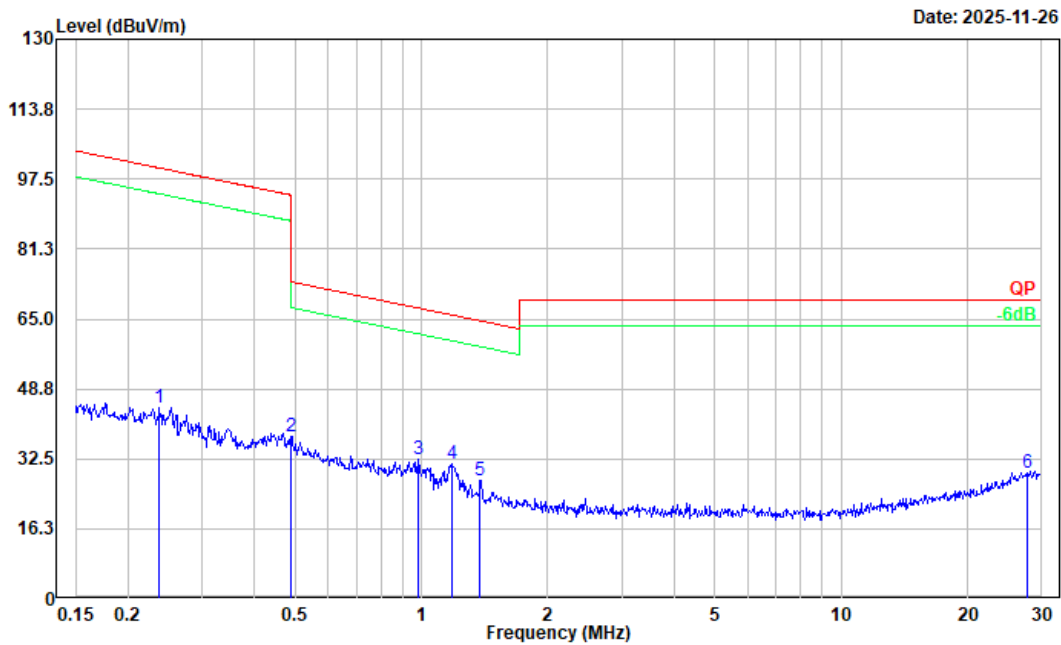
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.220	37.66	8.79	46.45	100.77	54.32	Peak
2	0.502	38.73	0.85	39.58	73.58	34.00	Peak
3	0.686	35.27	-1.16	34.11	70.81	36.70	Peak
4	1.123	38.73	-4.87	33.86	66.44	32.58	Peak
5	17.568	33.61	-7.45	26.16	69.54	43.38	Peak
6	28.452	39.63	-7.38	32.25	69.54	37.29	Peak

Project No.: 2503Y81182E-RF
Tester: Jin He
Condition: RBW:0.3 kHz VBW:1 kHz
Polarization: Perpendicular
Note: Transmitting



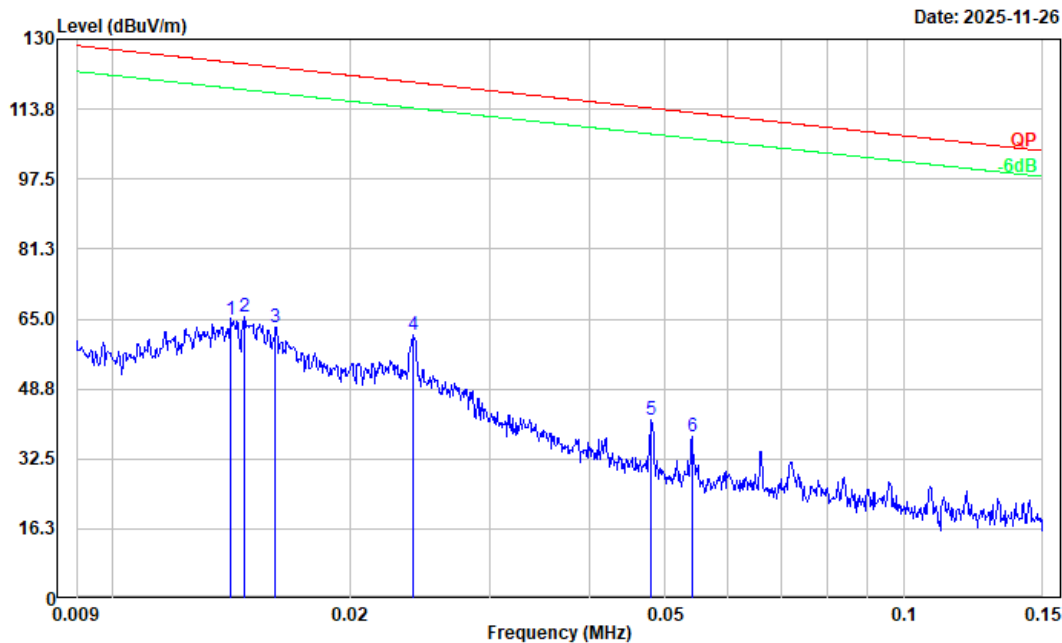
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.014	32.71	32.64	65.35	124.93	59.58	Peak
2	0.015	33.09	31.96	65.05	124.05	59.00	Peak
3	0.016	33.35	31.74	65.09	123.78	58.69	Peak
4	0.024	33.95	27.81	61.76	120.04	58.28	Peak
5	0.048	16.23	21.10	37.33	114.00	76.67	Peak
6	0.138	21.85	12.57	34.42	104.79	70.37	Peak

Project No.: 2503Y81182E-RF
 Tester: Jin He
 Condition: RBW:10 kHz VBW:30 kHz
 Polarization: Perpendicular
 Note: Transmitting



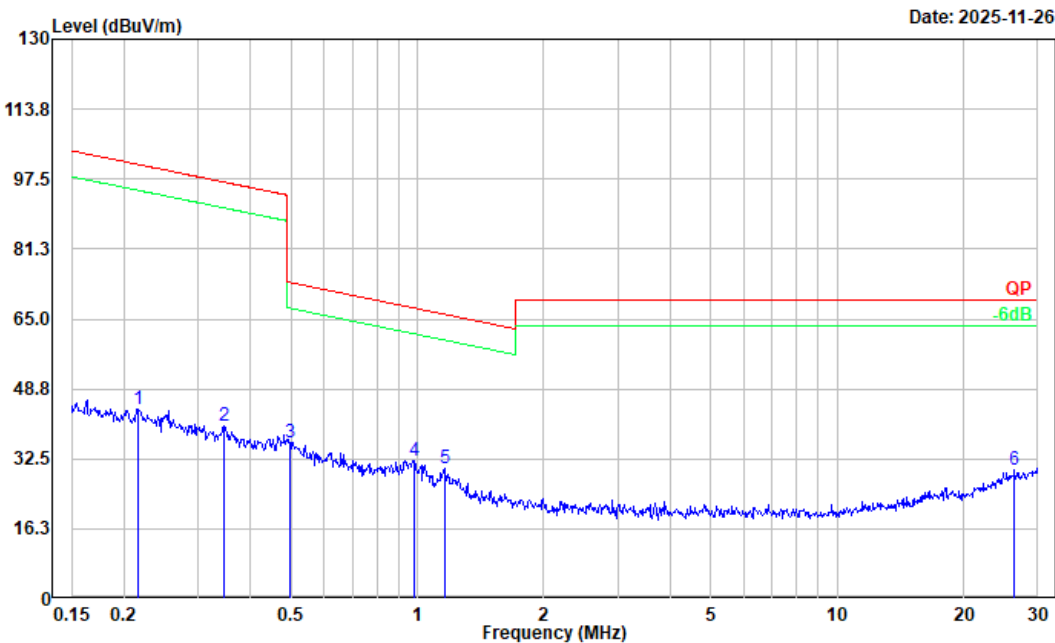
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.238	36.44	7.95	44.39	100.08	55.69	Peak
2	0.489	36.67	1.10	37.77	93.82	56.05	Peak
3	0.984	36.82	-4.33	32.49	67.62	35.13	Peak
4	1.178	36.37	-5.04	31.33	66.02	34.69	Peak
5	1.381	33.18	-5.66	27.52	64.61	37.09	Peak
6	27.708	36.85	-7.49	29.36	69.54	40.18	Peak

Project No.: 2503Y81182E-RF
Tester: Jin He
Condition: RBW:0.3 kHz VBW:1 kHz
Polarization: Ground-Parallel
Note: Transmitting



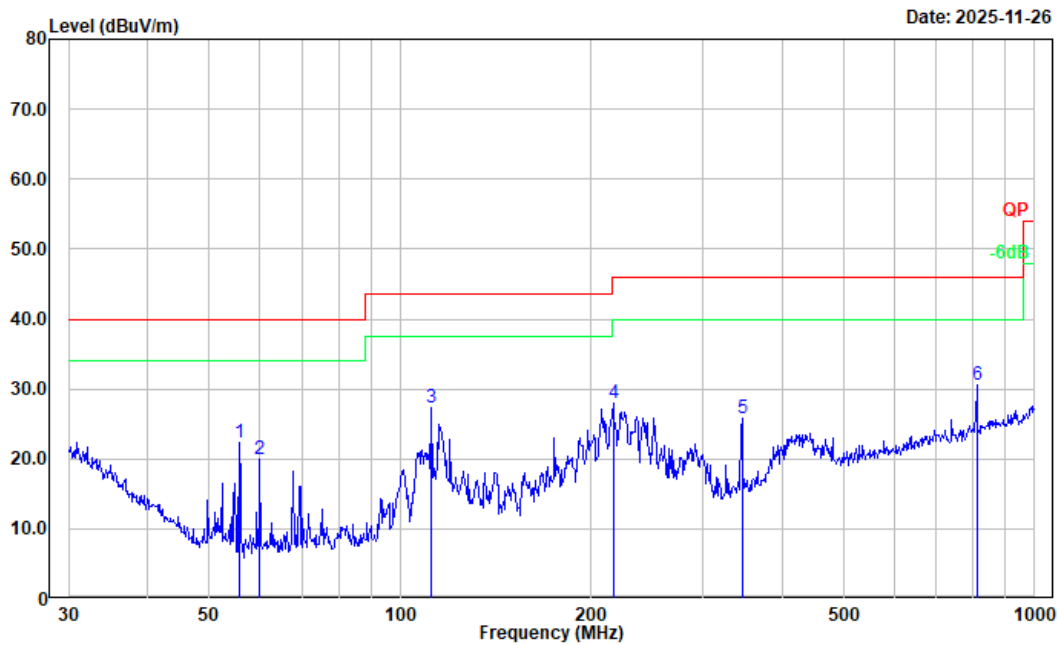
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.014	32.34	32.42	64.76	124.63	59.87	Peak
2	0.015	33.29	32.16	65.45	124.29	58.84	Peak
3	0.016	31.72	31.49	63.21	123.49	60.28	Peak
4	0.024	33.45	27.75	61.20	119.99	58.79	Peak
5	0.048	20.33	21.07	41.40	113.98	72.58	Peak
6	0.054	17.56	20.05	37.61	112.95	75.34	Peak

Project No.: 2503Y81182E-RF
Tester: Jin He
Condition: RBW:10 kHz VBW:30 kHz
Polarization: Ground-Parallel
Note: Transmitting



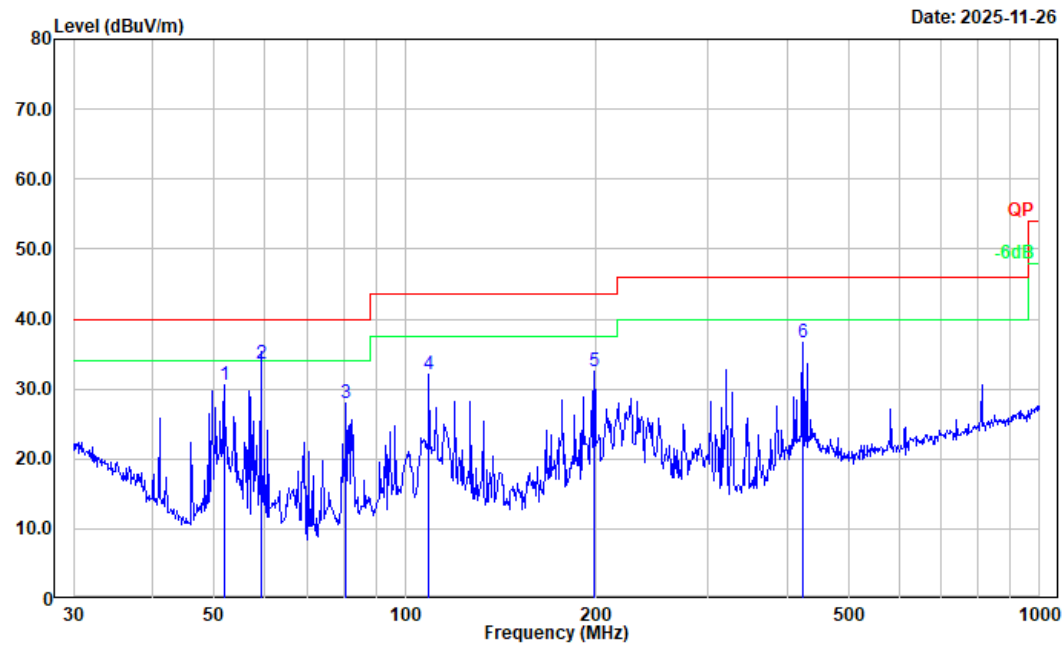
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.216	35.21	8.95	44.16	100.91	56.75	Peak
2	0.346	36.02	4.09	40.11	96.81	56.70	Peak
3	0.497	35.52	0.94	36.46	73.68	37.22	Peak
4	0.979	36.48	-4.28	32.20	67.66	35.46	Peak
5	1.166	35.41	-5.00	30.41	66.11	35.70	Peak
6	26.418	37.51	-7.51	30.00	69.54	39.54	Peak

Project No.: 2503Y81182E-RF
 Tester: Jin He
 Condition: RBW:120 kHz VBW:500 kHz
 Polarization: Horizontal
 Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	55.805	39.99	-17.72	22.27	40.00	17.73	Peak
2	60.069	37.70	-17.68	20.02	40.00	19.98	Peak
3	112.131	39.10	-11.89	27.21	43.50	16.29	Peak
4	216.783	41.63	-13.75	27.88	46.00	18.12	Peak
5	345.595	35.54	-9.67	25.87	46.00	20.13	Peak
6	810.265	31.70	-1.22	30.48	46.00	15.52	Peak

Project No.: 2503Y81182E-RF
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: Vertical
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	51.843	48.01	-17.47	30.54	40.00	9.46	Peak
2	59.232	51.20	-17.63	33.57	40.00	6.43	QP
3	80.644	45.25	-17.21	28.04	40.00	11.96	Peak
4	109.029	44.48	-12.40	32.08	43.50	11.42	Peak
5	198.588	45.02	-12.58	32.44	43.50	11.06	Peak
6	423.540	44.15	-7.43	36.72	46.00	9.28	Peak

4.2.2 1 GHz – 25 GHz

Sample Number	3B6V-2	Test Date:	2025/11/27
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Peter Rong	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.4	Relative Humidity: (%)	48	ATM Pressure: (kPa)	101.6
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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	2025/3/31	2026/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/1/10	2026/1/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/1/10	2026/1/9
A.H	Pre-amplifier	PAM-0118P	628	2025/10/31	2026/10/30
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/1/6	2026/1/5
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/1/6	2026/1/5
Decentest	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2025/8/4	2026/8/3
Decentest	Filter Switch Unit	DT7220FSU	DQ77928	2025/8/4	2026/8/3

* 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 is below:

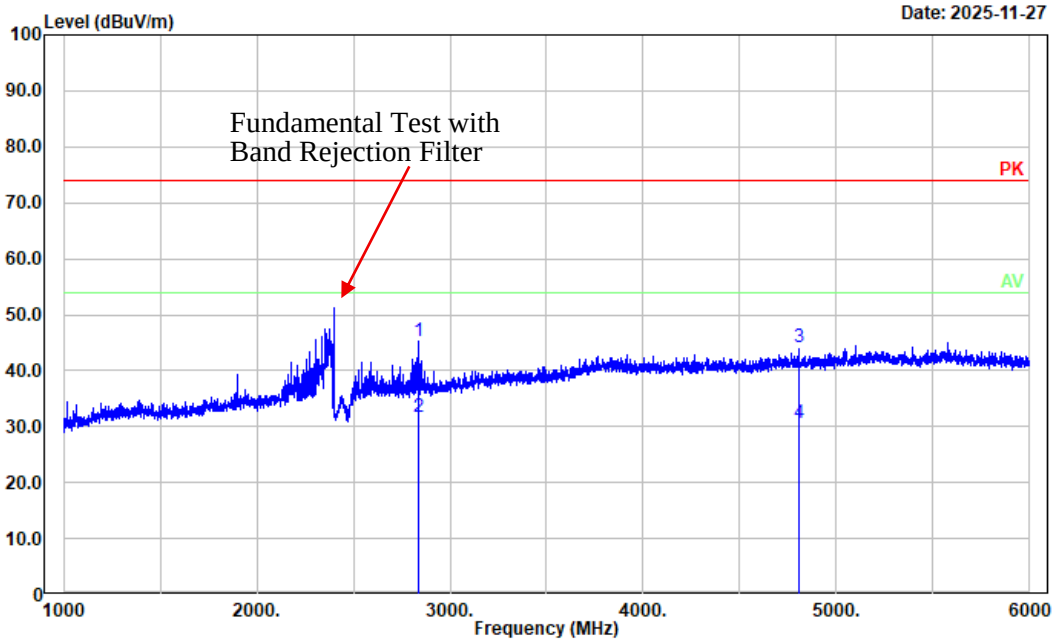
BLE 1Mbps:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel:				2402	MHz		
4804.000	48.12	PK	H	-4.08	44.04	74.00	29.96
4804.000	34.81	AV	H	-4.08	30.73	54.00	23.27
4804.000	48.81	PK	V	-4.08	44.73	74.00	29.27
4804.000	35.51	AV	V	-4.08	31.43	54.00	22.57
7206.000	53.96	PK	H	0.10	54.06	74.00	19.94
7206.000	43.07	AV	H	0.10	43.17	54.00	10.83
7206.000	55.57	PK	V	0.10	55.67	74.00	18.33
7206.000	45.01	AV	V	0.10	45.11	54.00	8.89
Middle Channel:				2440	MHz		
4880.000	49.47	PK	H	-4.09	45.38	74.00	28.62
4880.000	38.46	AV	H	-4.09	34.37	54.00	19.63
4880.000	51.01	PK	V	-4.09	46.92	74.00	27.08
4880.000	41.32	AV	V	-4.09	37.23	54.00	16.77
7320.000	50.66	PK	H	0.70	51.36	74.00	22.64
7320.000	38.21	AV	H	0.70	38.91	54.00	15.09
7320.000	53.63	PK	V	0.70	54.33	74.00	19.67
7320.000	42.12	AV	V	0.70	42.82	54.00	11.18
High Channel:				2480	MHz		
4960.000	49.76	PK	H	-4.18	45.58	74.00	28.42
4960.000	38.03	AV	H	-4.18	33.85	54.00	20.15
4960.000	52.16	PK	V	-4.18	47.98	74.00	26.02
4960.000	42.30	AV	V	-4.18	38.12	54.00	15.88
7440.000	49.47	PK	H	0.61	50.08	74.00	23.92
7440.000	37.34	AV	H	0.61	37.95	54.00	16.05
7440.000	51.10	PK	V	0.61	51.71	74.00	22.29
7440.000	40.14	AV	V	0.61	40.75	54.00	13.25

Worst radiation spurious emissions margin test plots for each mode

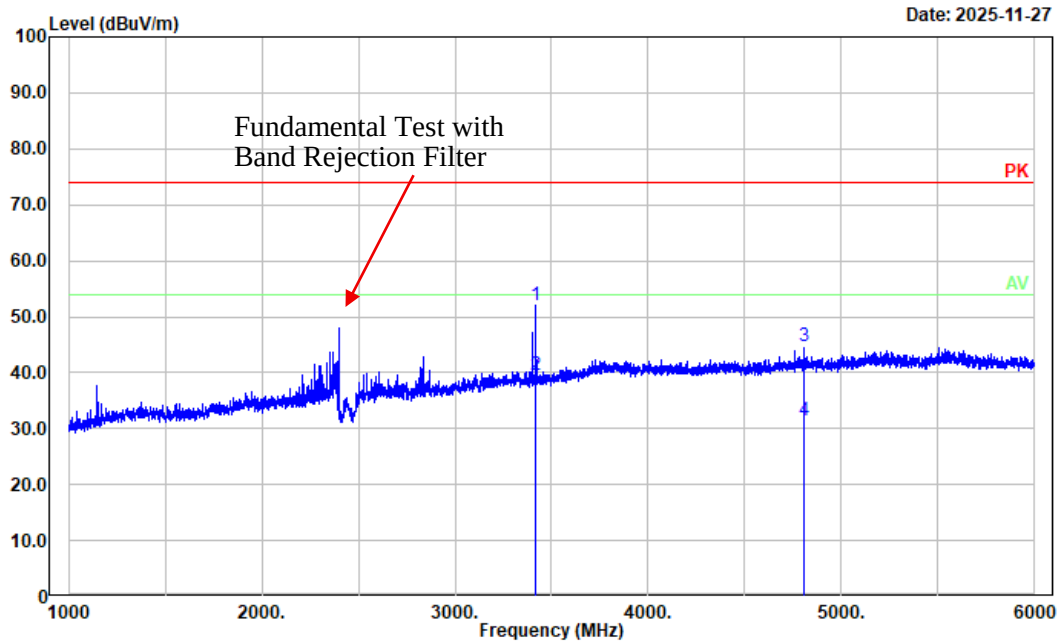
Note: for 18 – 25 GHz range, test was performed on the maximum power mode and channel.

Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: horizontal
Note: BLE 1Mbps Low Channel 2402MHz



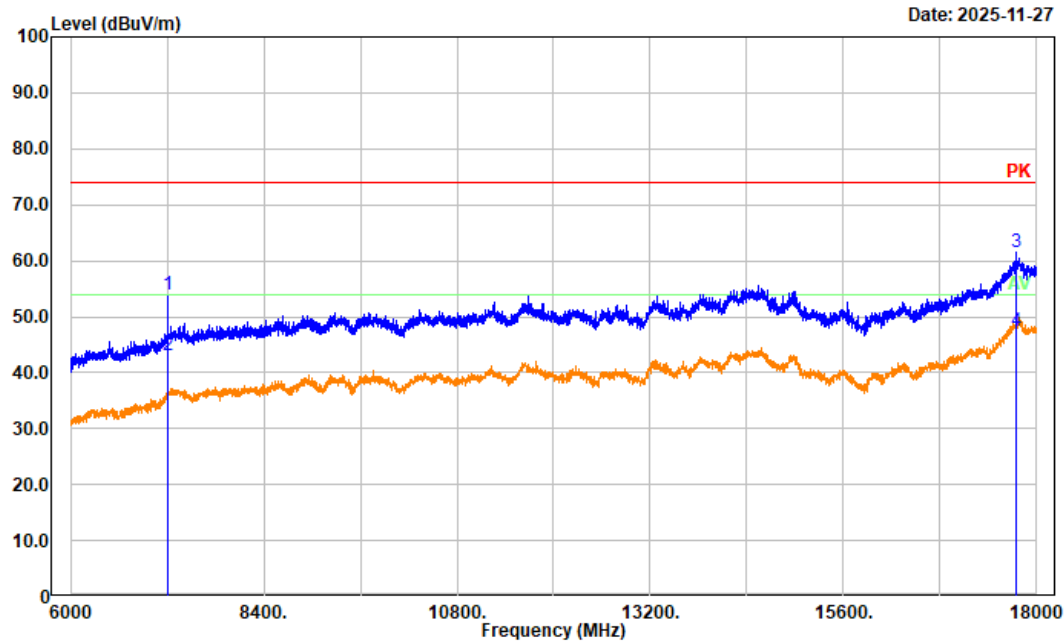
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2834.000	55.63	-10.49	45.14	74.00	28.86	Peak
2	2834.000	42.07	-10.49	31.58	54.00	22.42	Average
3	4804.000	48.12	-4.08	44.04	74.00	29.96	Peak
4	4804.000	34.81	-4.08	30.73	54.00	23.27	Average

Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: vertical
Note: BLE 1Mbps Low Channel 2402MHz



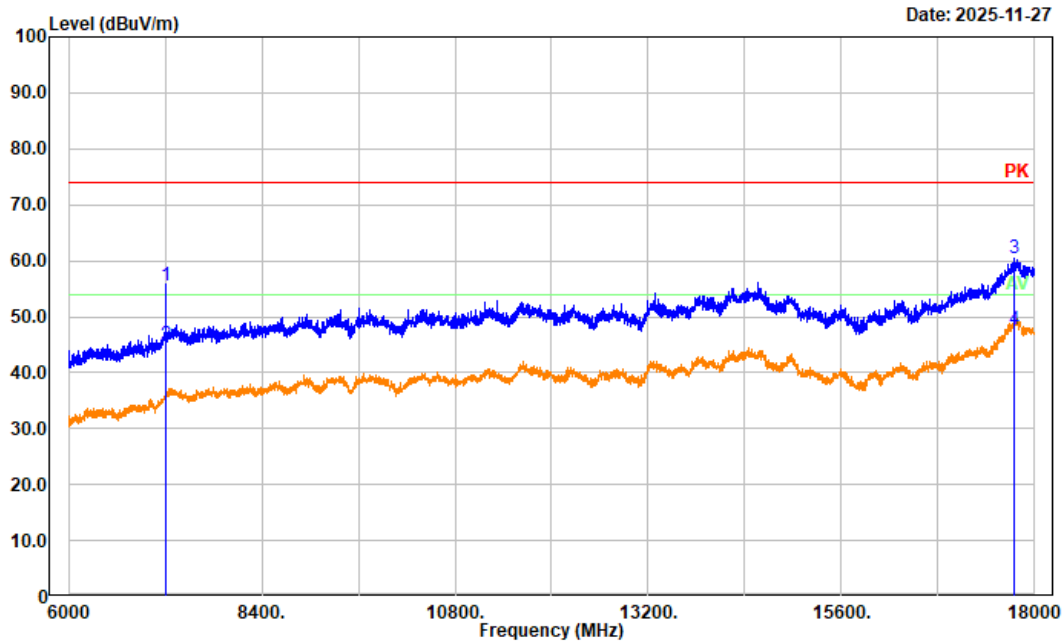
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	3419.000	58.01	-5.92	52.09	74.00	21.91	Peak
2	3419.000	45.51	-5.92	39.59	54.00	14.41	Average
3	4804.000	48.81	-4.08	44.73	74.00	29.27	Peak
4	4804.000	35.51	-4.08	31.43	54.00	22.57	Average

Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: horizontal
Note: BLE 1Mbps Low Channel 2402MHz



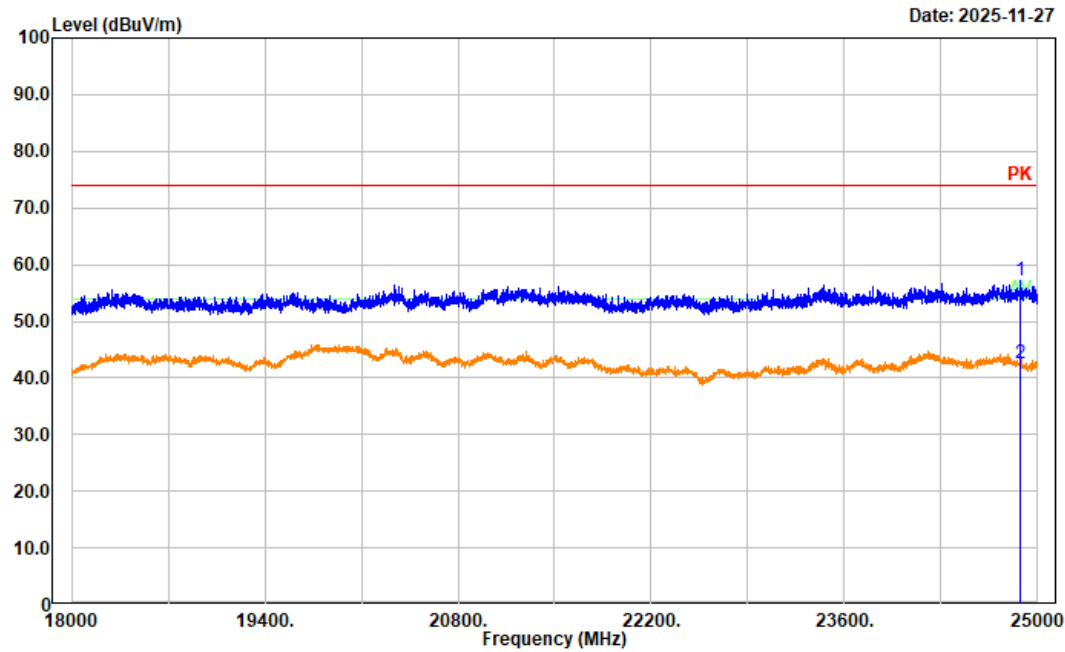
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	53.96	0.10	54.06	74.00	19.94	Peak
2	7206.000	43.07	0.10	43.17	54.00	10.83	Average
3	17750.400	47.02	14.44	61.46	74.00	12.54	Peak
4	17750.400	32.89	14.44	47.33	54.00	6.67	Average

Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: vertical
Note: BLE 1Mbps Low Channel 2402MHz



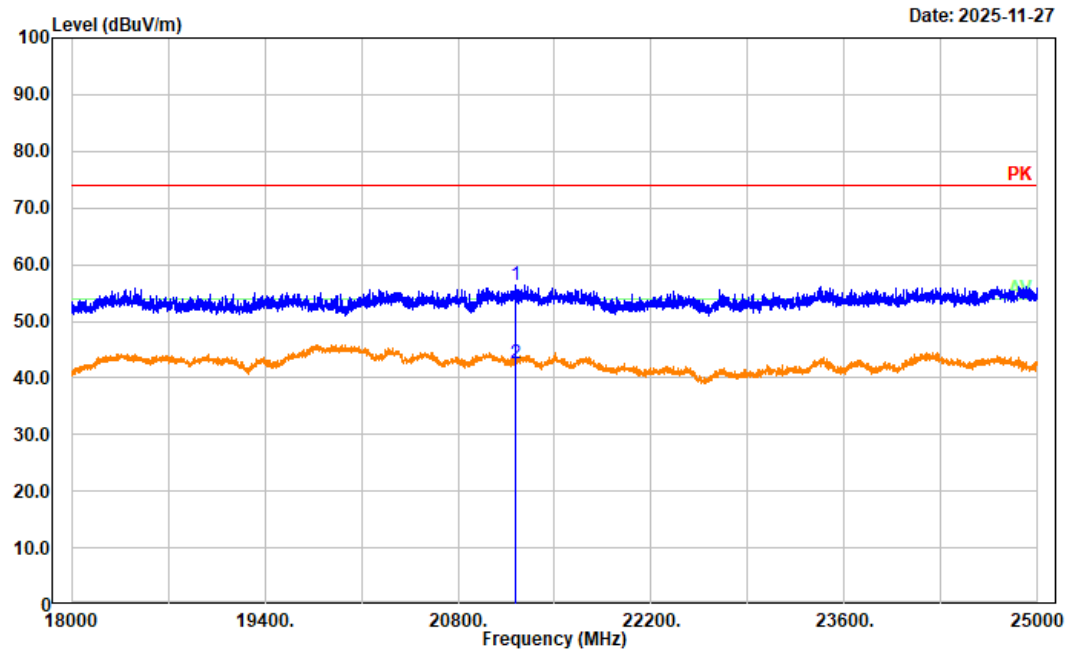
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	55.57	0.10	55.67	74.00	18.33	Peak
2	7206.000	45.01	0.10	45.11	54.00	8.89	Average
3	17745.600	45.97	14.44	60.41	74.00	13.59	Peak
4	17745.600	33.25	14.44	47.69	54.00	6.31	Average

Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: Horizontal
Note: BLE 1Mbps Middle Channel 2440MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	24872.600	51.16	5.97	57.13	74.00	16.87	Peak
2	24872.600	36.68	5.97	42.65	54.00	11.35	Average

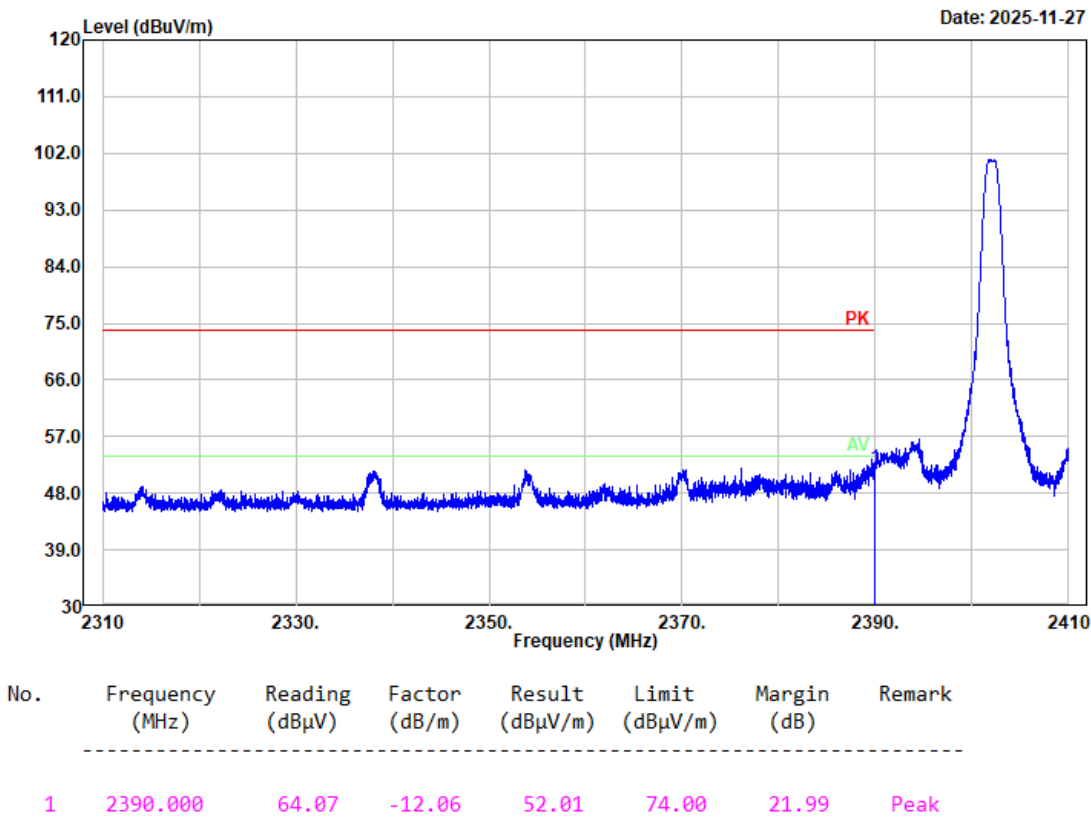
Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: Vertical
Note: BLE 1Mbps Middle Channel 2440MHz



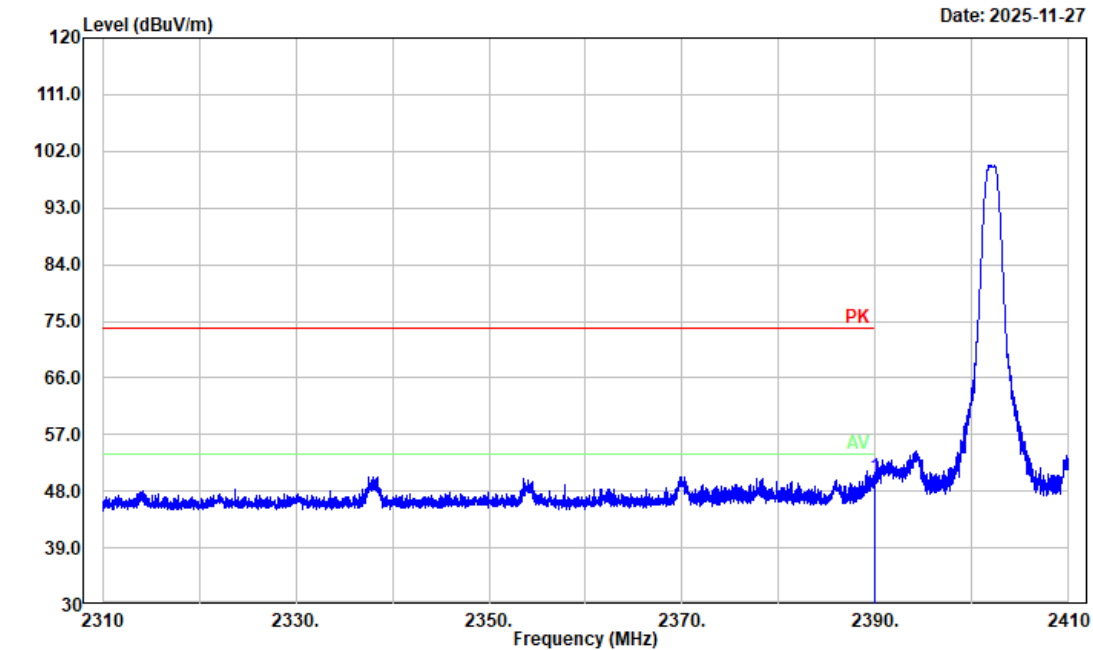
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	21217.200	49.50	6.87	56.37	74.00	17.63	Peak
2	21217.200	35.69	6.87	42.56	54.00	11.44	Average

Band edge test plots

Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: BLE 1Mbps Low Channel 2402MHz

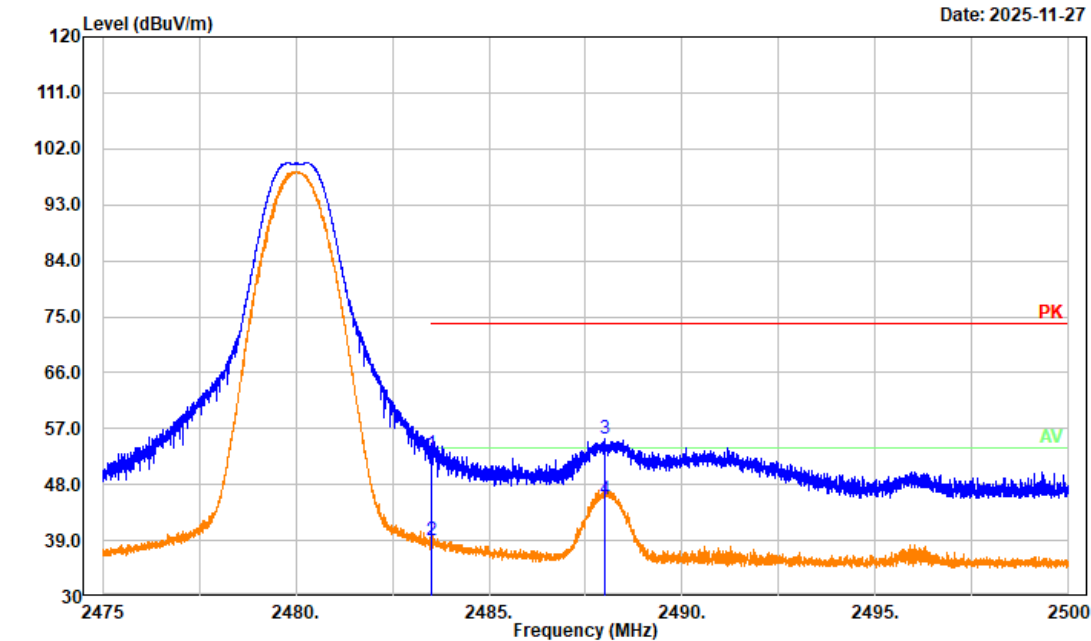


Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: vertical
Note: BLE 1Mbps Low Channel 2402MHz



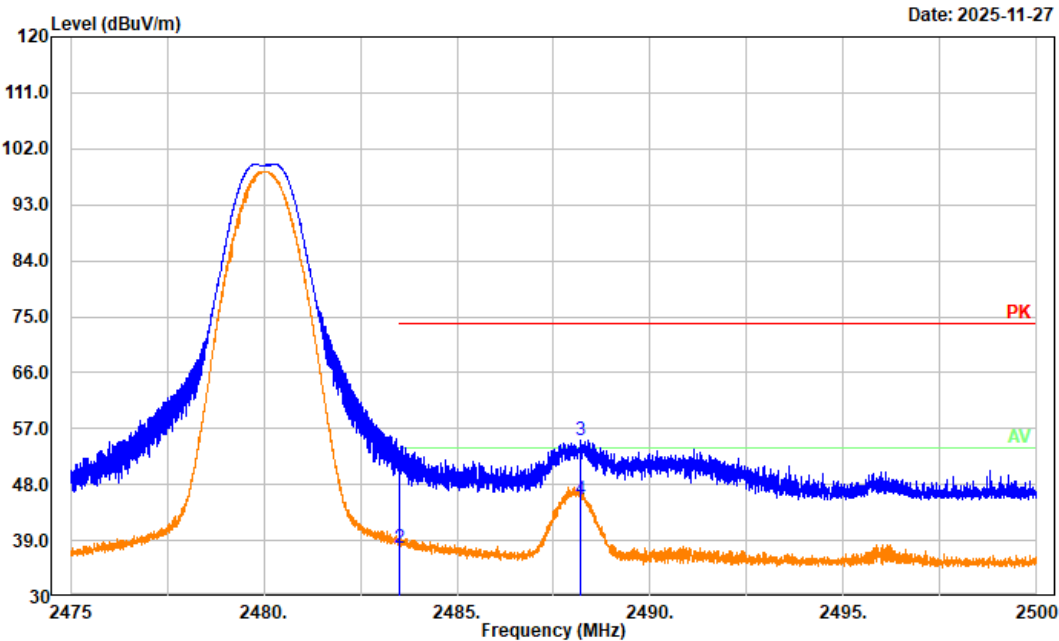
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2390.000	62.41	-12.06	50.35	74.00	23.65	Peak

Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: Horizontal
Note: BLE 1Mbps High Channel 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	64.63	-11.80	52.83	74.00	21.17	Peak
2	2483.500	50.92	-11.80	39.12	54.00	14.88	Average
3	2487.995	67.12	-11.79	55.33	74.00	18.67	Peak
4	2487.995	57.48	-11.79	45.69	54.00	8.31	Average

Project No: 2503Y81182E-RF
Tester: Peter Rong
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: vertical
Note: BLE 1Mbps High Channel 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	61.90	-11.80	50.10	74.00	23.90	Peak
2	2483.500	49.49	-11.80	37.69	54.00	16.31	Average
3	2488.195	66.85	-11.79	55.06	74.00	18.94	Peak
4	2488.195	57.48	-11.79	45.69	54.00	8.31	Average

4.3 6dB Emission Bandwidth

Test Information:

Sample No.:	3B6V-1	Test Date:	2025/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kenny Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	48	ATM Pressure: (kPa)	101.6
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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	2025/03/31	2026/03/30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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).*

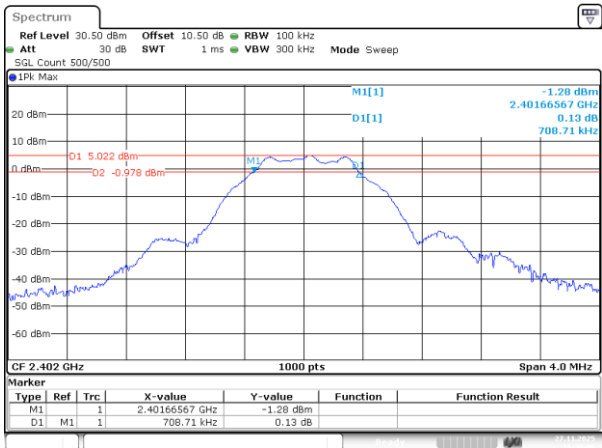
Test Data:

Chain 0, BLE 1M

Channel	Result (MHz)	Limit (MHz)	Verdict
Low	0.709	≥ 0.5	Pass
Middle	0.701	≥ 0.5	Pass
High	0.701	≥ 0.5	Pass

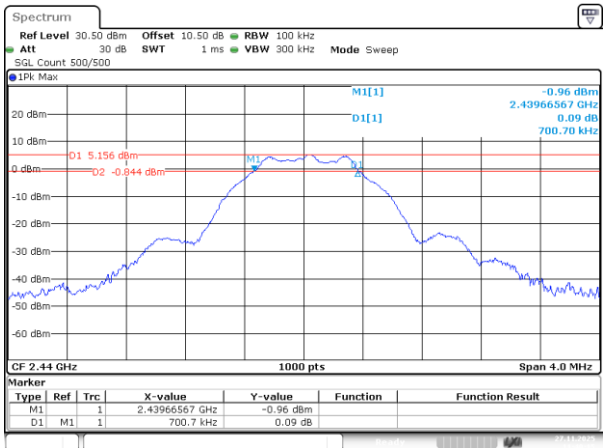
BLE 1M

BLE_1M_Low_Channel



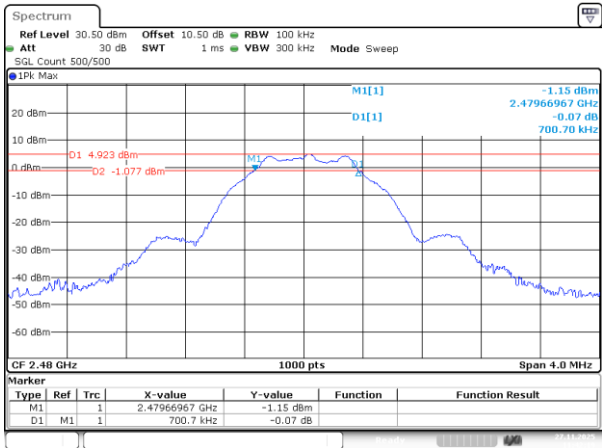
ProjectNo.:2503Y81182E-RF Tester:Renny Qiu
Date: 27.NOV.2025 11:38:07

BLE_1M_Middle_Channel



ProjectNo.:2503Y81182E-RF Tester:Renny Qiu
Date: 27.NOV.2025 11:40:15

BLE_1M_High_Channel



ProjectNo.:2503Y81182E-RF Tester:Renny Qiu
Date: 27.NOV.2025 11:42:18

4.4 99% Occupied Bandwidth

Test Information:

Sample No.:	3B6V-1	Test Date:	2025/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kenny Qiu	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	48	ATM Pressure: (kPa)	101.6
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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	2025/03/31	2026/03/30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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).*

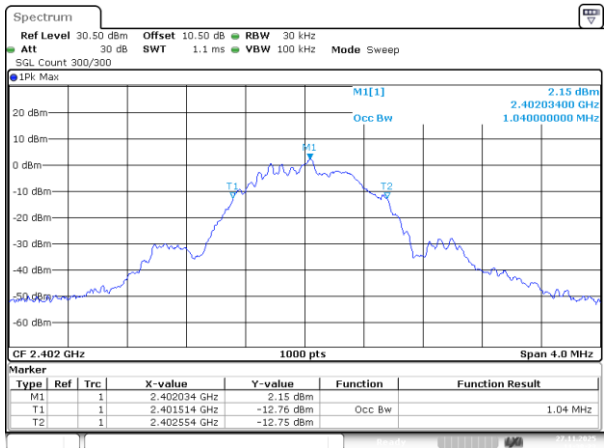
Test Data:

Chain 0, BLE 1M

Channel	99% OBW (MHz)
Low	1.040
Middle	1.040
High	1.040

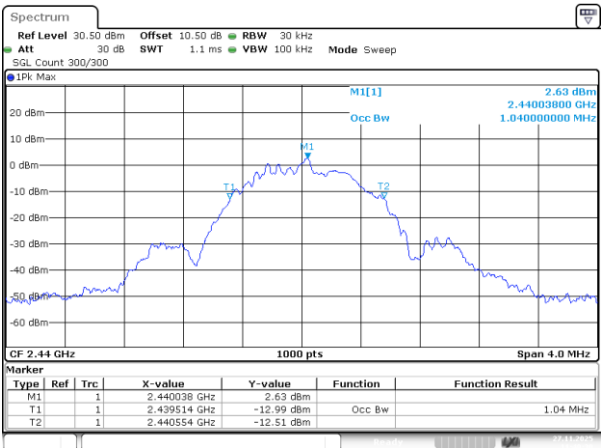
BLE 1M

BLE_1M_Low_Channel



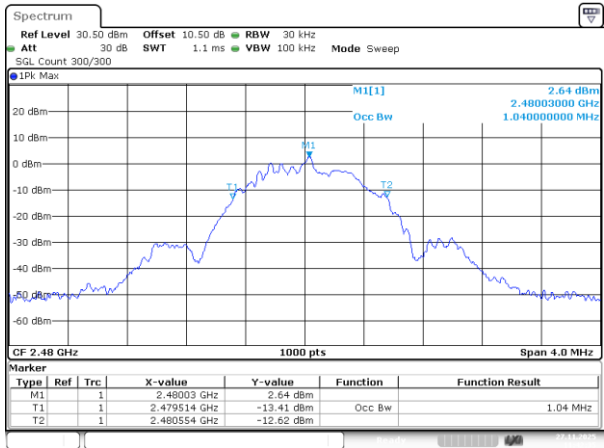
ProjectNo.:2503Y81182E-RF Tester:Renny Qiu
Date: 27.NOV.2025 11:38:22

BLE_1M_Middle_Channel



ProjectNo.:2503Y81182E-RF Tester:Renny Qiu
Date: 27.NOV.2025 11:40:30

BLE_1M_High_Channel



ProjectNo.:2503Y81182E-RF Tester:Renny Qiu
Date: 27.NOV.2025 11:42:35

4.5 Maximum Conducted Output Power

Test Information:

Sample No.:	3B6V-1	Test Date:	2025/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kenny Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	48	ATM Pressure: (kPa)	101.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Pulse Power Sensor	MA2411A	10780	2025/8/19	2026/8/18
Anritsu	Power Meter	ML2495A	1106009	2025/8/19	2026/8/18
eastsheep	Coaxial Attenuator	2W-SMA-JK- 18G	21060301	Each time	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:

Chain 0, BLE 1M

Channel	Peak Output Power (dBm)	Limit (dBm)	Verdict
Low	5.58	30.00	Pass
Middle	5.73	30.00	Pass
High	5.44	30.00	Pass

4.6 Power Spectral Density

Test Information:

Sample No.:	3B6V-1	Test Date:	2025/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kenny Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	48	ATM Pressure: (kPa)	101.6
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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	2025/03/31	2026/03/30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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).*

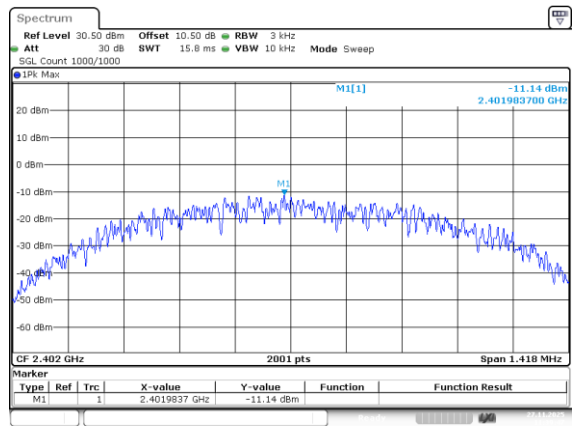
Test Data:

Chain 0, BLE 1M

Channel	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	-11.14	8	Pass
Middle	-11.06	8	Pass
High	-11.45	8	Pass

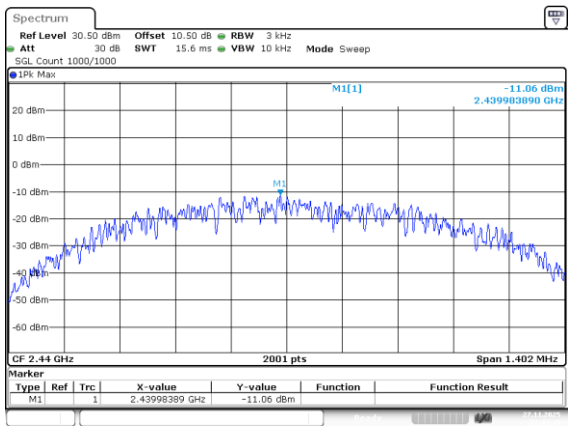
BLE 1M

BLE_1M_Low_Channel



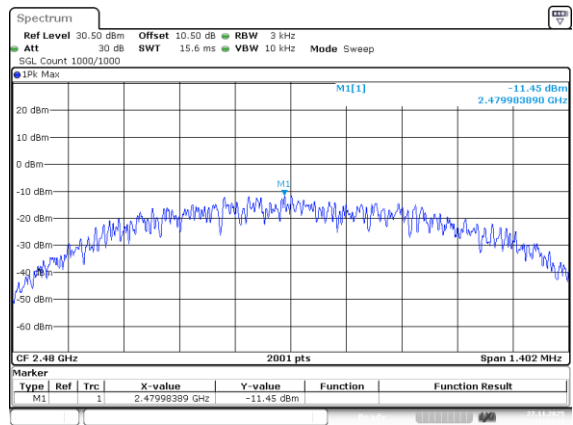
ProjectNo.:2503Y81182E-RF Tester:Renny Qiu
Date: 27.NOV.2025 11:39:47

BLE_1M_Middle_Channel



ProjectNo.:2503Y81182E-RF Tester:Renny Qiu
Date: 27.NOV.2025 11:41:49

BLE_1M_High_Channel



ProjectNo.:2503Y81182E-RF Tester:Renny Qiu
Date: 27.NOV.2025 11:43:53

4.7 Duty Cycle

Test Information:

Sample No.:	3B6V-1	Test Date:	2025/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kenny Qiu	Test Result:	N/A

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	48	ATM Pressure: (kPa)	101.6
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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	2025/03/31	2026/03/30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

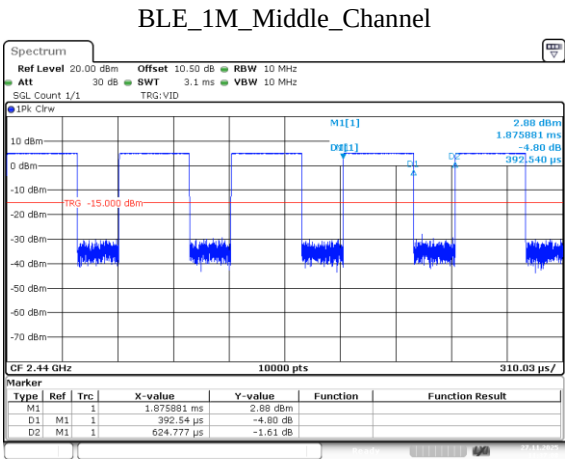
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Chain 0, BLE 1M

Channel	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
Middle	0.393	0.625	62.88	2.01	2545	3

BLE 1M



ProjectNo.:2503Y81182E-RF Tester:Henry Qiu
Date: 27-NOV-2025 11:37:08

4.8 Conducted Spurious Emission

Test Information:

Sample No.:	3B6V-1	Test Date:	2025/11/27
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kenny Qiu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5	Relative Humidity: (%)	48	ATM Pressure: (kPa)	101.6
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Test Equipment List and Details:

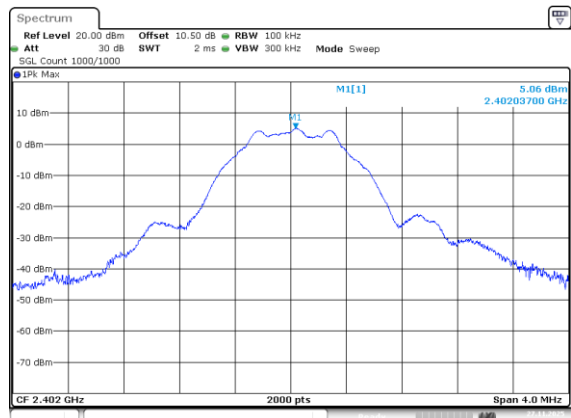
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2025/03/31	2026/03/30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

** 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:

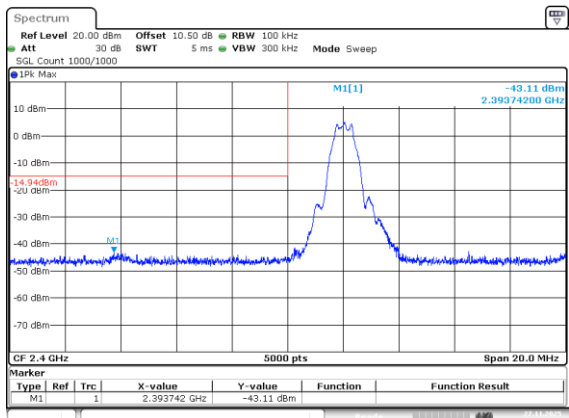
BLE 1M

BLE_1M_Low_Channel



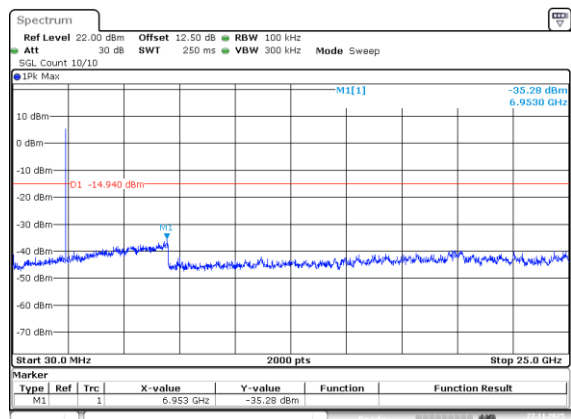
ProjectNo.:2503Y81182E-RF Tester:Henry Qiu
Date: 27.NOV.2025 11:47:52

BLE_1M_Low_Channel



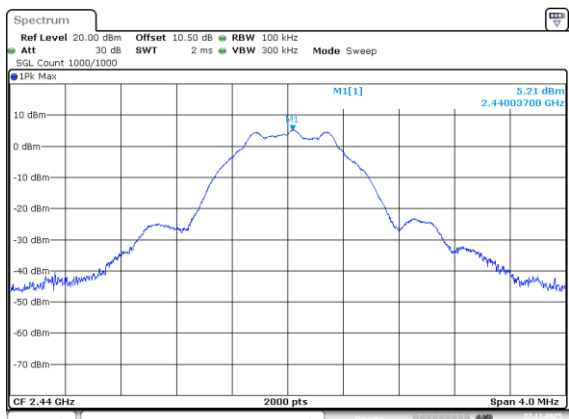
ProjectNo.:2503Y81182E-RF Tester:Henry Qiu
Date: 27.NOV.2025 11:48:45

BLE_1M_Low_Channel



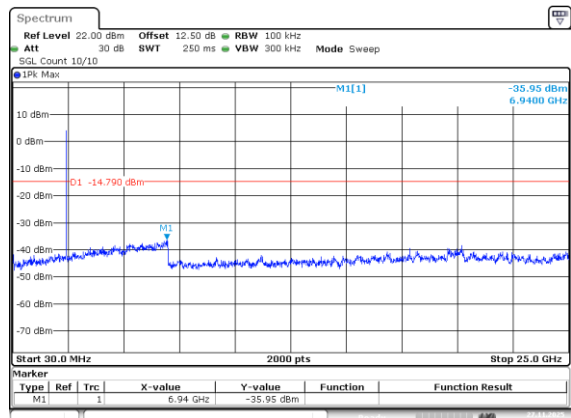
ProjectNo.:2503Y81182E-RF Tester:Henry Qiu
Date: 27.NOV.2025 11:49:16

BLE_1M_Middle_Channel



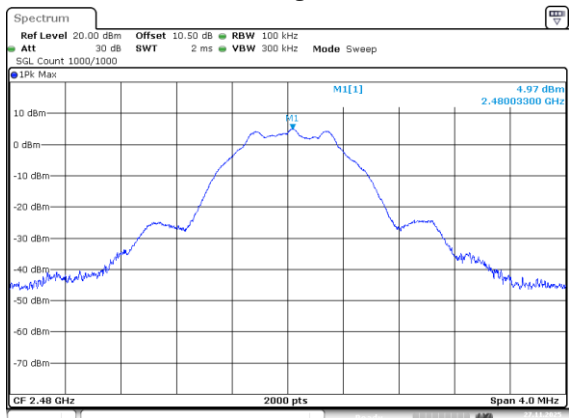
ProjectNo.:2503Y81182E-RF Tester:Henry Qiu
Date: 27.NOV.2025 11:49:53

BLE_1M_Middle_Channel



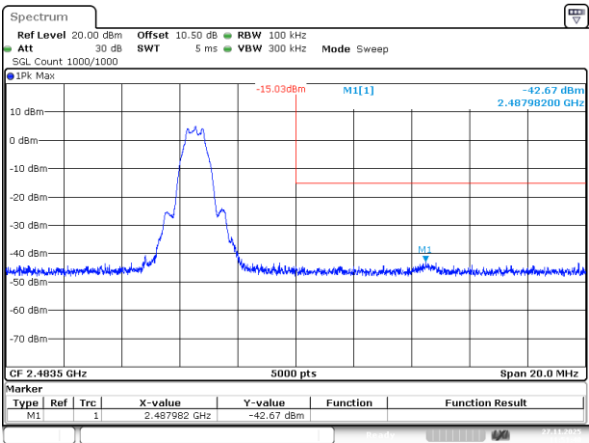
ProjectNo.:2503Y81182E-RF Tester:Henry Qiu
Date: 27.NOV.2025 11:50:19

BLE_1M_High_Channel



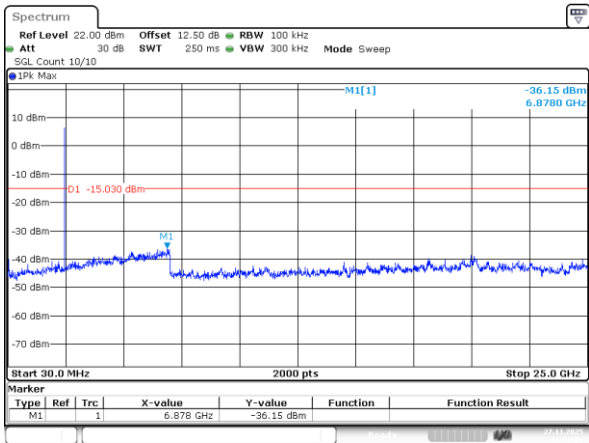
ProjectNo.:2503Y81182E-RF Tester:Henry Qiu
Date: 27.NOV.2025 11:50:57

BLE_1M_High_Channel



ProjectNo.:2503Y81182E-RF Tester:Kenny Qiu
Date: 27.NOV.2025 11:51:40

BLE_1M_High_Channel



ProjectNo.:2503Y81182E-RF Tester:Kenny Qiu
Date: 27.NOV.2025 11:52:05

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

5.2 Measurement Result

Frequency (MHz)	Conducted Output Power Including Tolerance [▲]		Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
	(dBm)	(mW)				
2402-2480	6	3.98	5	1.3	3	Yes

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: Compliant. The stand-alone SAR test is not necessary.

6. EUT PHOTOGRAPHS

Please refer to the attachment 2503Y81182E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2503Y81182E-RF-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2503Y81182E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

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