

FCC Test Report

Report No.: 2505R50271EB-A1

Applicant: ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO.,

LTD.

Address: No.2602, 26th Floor, Block B, Dongfang Building No. 198-19

Songshan South Road, Erqi District, Zhengzhou, China

Product Name: Smart timer Box

Product Model: PTW01

Multiple Models: PTW02, PTW03, PTW04

Trade Mark: **Jewenwils**

FCC ID: 2A4G9-016

Standards: FCC CFR Title 47 Part 15C (§15.247)

Test Date: 2025-04-07 to 2025-04-22

Test Result: Complied

Report Date: 2025-04-28

Reviewed by:

Lake Li

Approved by:

Luke Li

Project Engineer

Jacob Kong

Jacob Gong

Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China



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Revision History

Version No.	Report No.	Issued Date	Description
00	2405U43320EB	2024-07-01	Original
01	2505R50271EB-A1	2025-04-28	CIIPC

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1 General Information

1.1 Client Information

Applicant:	ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO., LTD.					
Address:	No.2602, 26th Floor, Block B, Dongfang Building No. 198-19 Songshan					
	South Road, Erqi District, Zhengzhou, China					
Manufacturer:	ZHENGZHOU DEWENWILS NETWORK TECHNOLOGY CO., LTD.					
Address:	No.2602, 26th Floor, Block B, Dongfang Building No. 198-19 Songshan					
	South Road, Erqi District, Zhengzhou, China					

1.2 Product Description of EUT

The EUT is Smart timer Box that contains BLE and 2.4G WLAN radios, this report covers the full testing of the BLE radio.

Sample Serial Number	CE&RE(below 1GHz): 30EP-2(PTW02), 30EP-4(PTW04) CE&RE: 30EP-3(PTW03) RF: 30EP-5(PTW03) (assigned by WATC)
Sample Received Date	2025-03-27
Sample Status	Good Condition
Frequency Range	2402MHz - 2480MHz(BLE1M)
Maximum Conducted Peak Output Power	-6.93dBm
Modulation Technology	GFSK
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain [#]	2dBi
Power Supply	PTW 01/ PTW 03: AC 120V/60Hz PTW 02/ PTW 04: AC 240V/60Hz
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement:

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, 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.

Device Antenna information:

The BLE antenna is an integral antenna which cannot replace by end-user, please see product internal photos for details.



1.4 Related Submittal(s)/Grant(s)

No related submittal(s)/Grant(s)

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))		
AC Power Lines Condu	cted Emissions	±3.14dB		
	Below 30MHz	±2.78dB		
Emissions, Radiated	Below 1GHz	±4.84dB		
	Above 1GHz	±5.44dB		
Emissions, Conducted		1.75dB		
Conducted Power		0.74dB		
Frequency Error		150Hz		
Bandwidth		0.34%		
Power Spectral Density		0.74dB		

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

1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

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. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2020

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method

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2 Description of Measurement

2.1 Test Configuration

Operating channels:								
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)			
0	2402	19	2440	38	2478			
1	2404	20	2442	39	2480			
				1	/			
18	2438			/	/			

According to ANSI C63.10-2020 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	19	2440	39	2480

Test Mode:						
Transmitting mode:	Transmitting mode: Keep the EUT in continuous transmitting with modulation					
Exercise software [#] :	Wifi_Test_Tool	Wifi_Test_Tool				
	-	Power Level Setting [#]				
Mode	Data rate	Low Channel	Middle Channel	High Channel		
BLE 1Mbps 0 0 0						
The exercise software and the maximum power setting that provided by manufacturer.						

Worst-Case Configuration:

For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

For radiated emissions below 30MHz, three antenna orientations (parallel, perpendicular, gound-parallel) were tested, only record the worse case test data in report.

EUT model PTW 01/PTW 02/PTW 03/PTW 04 is electrical identical, except for difference voltage supply and shell material, Model PTW 01 and PTW 03 support AC120V power supply, Model PTW 02 and PTW 04 support AC240V power supply, Model PTW 01 and PTW 02 is metal shell, and Model PTW 03 and PTW 04 is plastic shell, detail please refer to the DOS letter# provided by applicant and EUT photo.



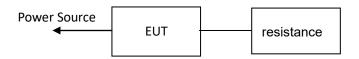
2.2 Test Auxiliary Equipment

Manufacturer Description		Model	Serial Number	
unknown	resistance	unknown	unknown	

2.1 Interconnecting Cables

Manufacturer	Description	Length(m)	From	То
Unknown	Power cable	1.0	Power Source	EUT
Unknown	Power cable	0.3	EUT	resistance

2.2 Block Diagram of Connection between EUT and AE

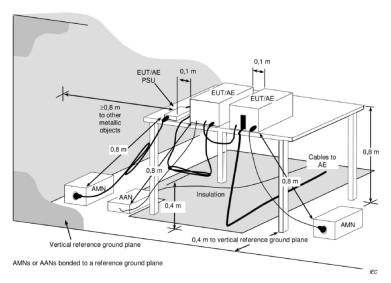


Note: for reference only, the actual connection setup used for testing please refer to the test photos.



2.3 Test Setup

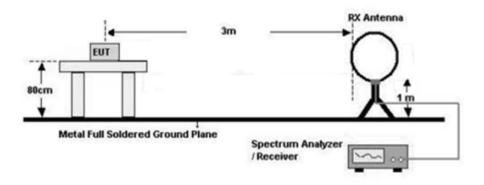
1) Conducted emission measurement:



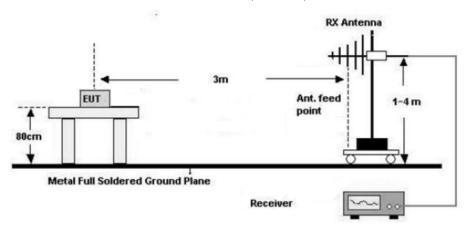
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

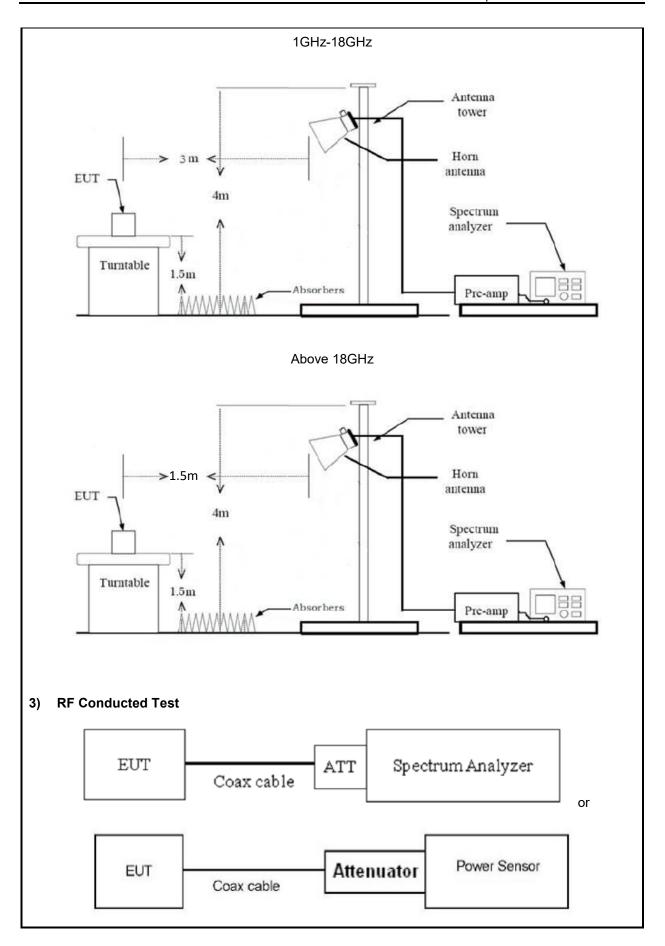
Below 30MHz (3m SAC)



30MHz-1GHz (3m SAC)









2.4 Test Procedure

Conducted emission:

- 1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
- Both sides of A.C. line are checked for maximum conducted interference. In order to find the
 maximum emission, the relative positions of equipment and all of the interface cables must be
 changed according to ANSI C63.10 on conducted measurement.
- 3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

- 1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).
- 2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, gound-parallel)
- 3. The RBW/VBW of receiver is set to 200Hz/1kHz for 9kHz to 150kHz range, to 9kHz/30kHz for 150kHz to 30MHz range for scan Peak emission, 200Hz/9kHz IF BW was used for final measurement in the Quasi-peak or average detection mode for frequency range 9~150kHz/150kHz~30MHz respectively.
- 4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

b) For 30MHz-1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. The RBW/VBW of receiver is set to 100kHz/300kHz for scan Peak emission, 120kHz IF BW was used for final measurement in the Quasi-peak detection mode.
- 4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

c) For above 1GHz:

- The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m chamber. The
 measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above
 18GHz).
- 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. The RBW/VBW of spectrum analyzer is set to 1MHz/3MHz for scan Peak emission, for measured



average emission, reduce the VBW to 10Hz(for duty cycle≥98%), or ≥1/T(for duty cycle<98%). T is minimum transmission duration. (Note: a high VBW (for example 1kHz, not less than 1/T) may used to scan average emissions to avoid long sweep time.)

- 4. If the Peak emission complies with the Average limit, then perform average measurement is optional.
- 5. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
- 6. Base on FCC part 15.31(f): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

RF Conducted Test:

- 1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or Spectrum analyzer) through Attenuator and RF cable.
- 2. The cable assembly insertion loss of 7.0dB (including 6.0 dB Attenuator and 1.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
- 3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

2.5 Measurement Method

Description of Test	Measurement Method	
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2	
Maximum Conducted Output Power	ANSI C63.10-2020 Section 11.9.1.1	
Power Spectral Density	ANSI C63.10-2020 Section 11.10.2	
6 dB Emission Bandwidth	ANSI C63.10-2020 Section 11.8.1	
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3	
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 6.10	
Radiated emission	ANSI C63.10-2020 Section 11.11&11.12.1	
Duty Cycle	ANSI C63.10-2020 Section 11.6	

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2.6 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
	AC	Line Conducted Em	nission Test		
ROHDE&	EMI TEST	ESR	101817	2024/6/4	2025/6/2
SCHWARZ	RECEIVER	ESK	101617	2024/6/4	2025/6/3
R&S	LISN	ENV216	101748	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.12	N/A	2024/6/4	2025/6/3
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	1	1
	Γ	Radiated Emissio			ı
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2024/6/4	2025/6/3
COM-POWER	Amplifier	PAM-840A	461306	2024/8/7	2025/8/6
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.13	N/A	2024/8/7	2025/8/6
N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	1	1
		RF Conducted	Test		1
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40	101419	2024/6/4	2025/6/3
narda	6dB attenuator	603-06-1	N/A	2024/6/4	2025/6/3

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.



3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result	Remark
§15.203	Antenna Requirement	Compliance	1
§15.207 (a)	AC Line Conducted Emissions	Compliance	/
§15.247(b)(3)	Maximum Conducted Output Power	Report only	See Note
§15.247(e)	Power Spectral Density	Compliance	See Note
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance	See Note
-	99% Occupied Bandwidth	Report only	See Note
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance	See Note
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance	/
-	Duty Cycle	Report only	See Note

Note:

This is a Class II Permissive Change test report. The applicant declared the difference[#] between current EUT and original device (Granted on 2024/07/18) as below:

- 1. Add the Multiple Models and the shell material of the new models is changed to plastic
- 2. the Multiple Models has two difference power board which with difference voltage
- 3. the WiFi control board to avoid the light guide columns of D1 and D3, the positions of R29 and ZD2 have been moved.

Base on above difference, the output power of BLE was checked and consist with original report, the changes not affect those items so those items please refer the original report.

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3.2 Limit

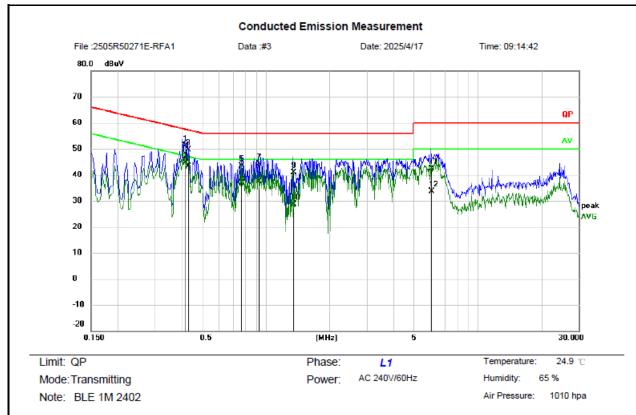
Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	For 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.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	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)).



3.3 AC Line Conducted Emissions Test Data

Test Date:	2025-04-17	Test By:	Ryan Zhang				
Environment condition:	Temperature: 24.9°C; Relative Humidity: 65%; ATM Pressure: 101.0kPa						

Model: PTW02



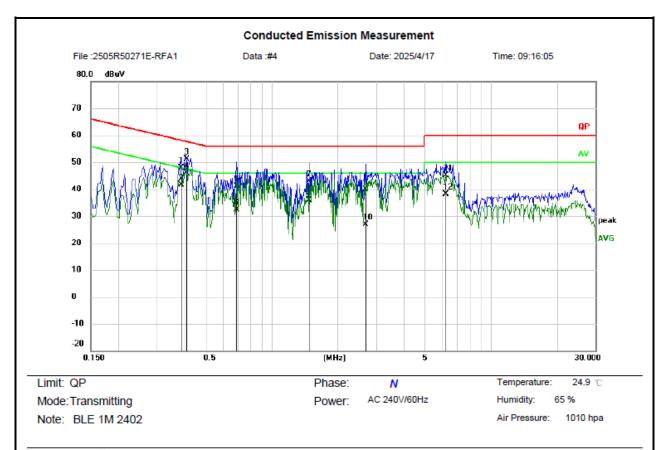
Receiver Setting:

9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Limit		
		MHz	dBuV	dB	dBu∀	dBu∨	dB	Detector	Comment
1		0.4180	40.70	10.53	51.23	57.49	-6.26	QP	
2	*	0.4180	34.11	10.53	44.64	47.49	-2.85	AVG	
3		0.4300	39.12	10.53	49.65	57.25	-7.60	QP	
4		0.4300	32.65	10.53	43.18	47.25	-4.07	AVG	
5		0.7700	32.81	10.60	43.41	56.00	-12.59	QP	
6		0.7700	26.26	10.60	36.86	46.00	-9.14	AVG	
7		0.9260	33.36	10.65	44.01	56.00	-11.99	QP	
8		0.9260	26.64	10.65	37.29	46.00	-8.71	AVG	
9		1.3460	30.14	10.70	40.84	56.00	-15.16	QP	
10		1.3460	17.98	10.70	28.68	46.00	-17.32	AVG	
11		6.0420	31.93	10.37	42.30	60.00	-17.70	QP	
12		6.0420	23.14	10.37	33.51	50.00	-16.49	AVG	

*:Maximum data x:Over limit !:over margin Engineer Signature: Ryan





Receiver Setting:

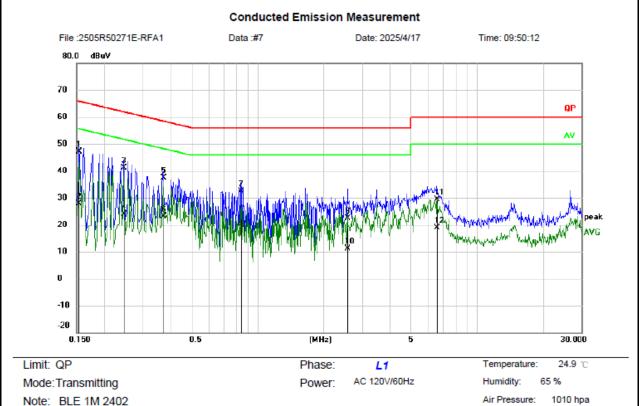
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.3860	37.33	10.50	47.83	58.15	-10.32	QP	
2		0.3860	31.21	10.50	41.71	48.15	-6.44	AVG	
3		0.4100	40.53	10.52	51.05	57.65	-6.60	QP	
4	*	0.4100	35.45	10.52	45.97	47.65	-1.68	AVG	
5		0.6900	30.71	10.47	41.18	56.00	-14.82	QP	
6		0.6900	21.79	10.47	32.26	46.00	-13.74	AVG	
7		1.4860	32.38	10.62	43.00	56.00	-13.00	QP	
8		1.4860	25.38	10.62	36.00	46.00	-10.00	AVG	
9		2.6820	29.31	10.59	39.90	56.00	-16.10	QP	
10		2.6820	16.20	10.59	26.79	46.00	-19.21	AVG	
11		6.2020	34.65	10.37	45.02	60.00	-14.98	QP	
12		6.2020	27.77	10.37	38.14	50.00	-11.86	AVG	

*:Maximum data x:Over limit !:over margin Engineer Signature: Ryan



Model: PTW03



Note: BLE 1M 2402

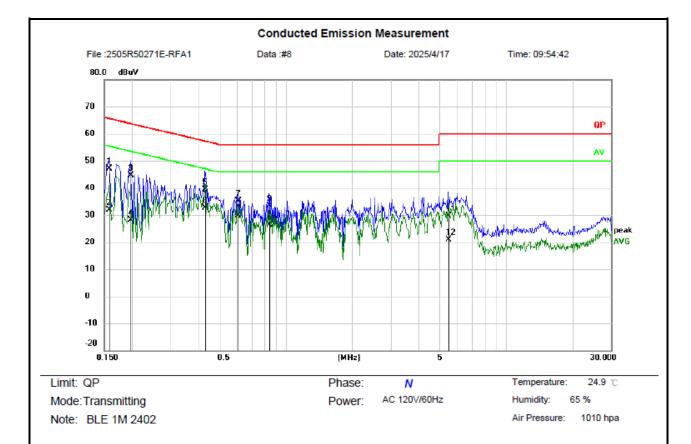
Receiver Setting:

9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Limit		
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector	Comment
1	*	0.1539	36.58	10.44	47.02	65.79	-18.77	QP	
2		0.1539	17.44	10.44	27.88	55.79	-27.91	AVG	
3		0.2460	30.69	10.40	41.09	61.89	-20.80	QP	
4		0.2460	13.54	10.40	23.94	51.89	-27.95	AVG	
5		0.3740	26.97	10.50	37.47	58.41	-20.94	QP	
6		0.3740	12.74	10.50	23.24	48.41	-25.17	AVG	
7		0.8420	21.76	10.63	32.39	56.00	-23.61	QP	
8		0.8420	9.22	10.63	19.85	46.00	-26.15	AVG	
9		2.5780	11.78	10.72	22.50	56.00	-33.50	QP	
10		2.5780	0.49	10.72	11.21	46.00	-34.79	AVG	
11		6.5620	19.00	10.31	29.31	60.00	-30.69	QP	
12		6.5620	8.45	10.31	18.76	50.00	-31.24	AVG	

*:Maximum data x:Over limit Engineer Signature: !:over margin Ryan





Receiver Setting:

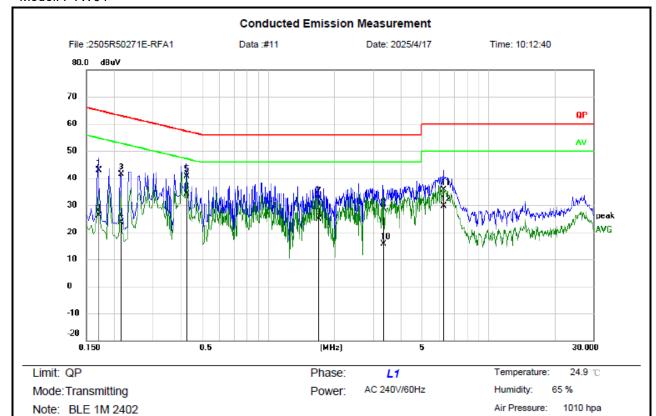
9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Limit		
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1580	36.75	10.27	47.02	65.57	-18.55	QP	
2		0.1580	21.53	10.27	31.80	55.57	-23.77	AVG	
3		0.1980	34.38	10.36	44.74	63.69	-18.95	QP	
4		0.1980	17.73	10.36	28.09	53.69	-25.60	AVG	
5		0.4300	28.77	10.53	39.30	57.25	-17.95	QP	
6	*	0.4300	22.00	10.53	32.53	47.25	-14.72	AVG	
7		0.6060	24.62	10.50	35.12	56.00	-20.88	QP	
8		0.6060	19.34	10.50	29.84	46.00	-16.16	AVG	
9		0.8420	22.83	10.53	33.36	56.00	-22.64	QP	
10		0.8420	15.95	10.53	26.48	46.00	-19.52	AVG	
11		5.4540	19.35	10.37	29.72	60.00	-30.28	QP	
12		5.4540	10.55	10.37	20.92	50.00	-29.08	AVG	

*:Maximum data x:Over limit !:over margin Engineer Signature: Ryan



Model: PTW04



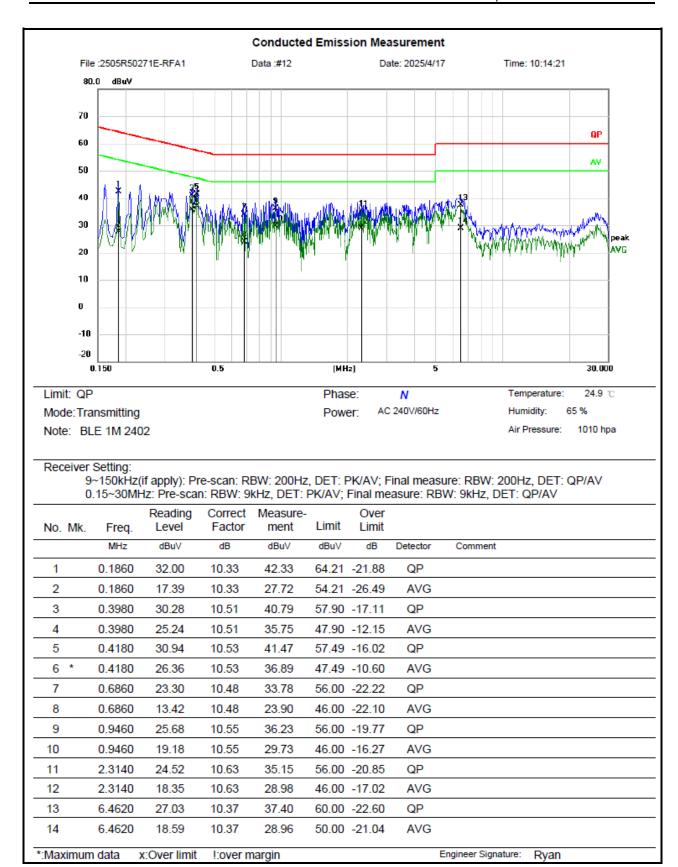
Receiver Setting:

9~150kHz(if apply): Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over Limit		
	MHz	dBu∀	dB	dBuV	dBu∨	dB	Detector	Comment
1	0.1700	32.49	10.29	42.78	64.96	-22.18	QP	
2	0.1700	15.77	10.29	26.06	54.96	-28.90	AVG	
3	0.2140	30.98	10.37	41.35	63.05	-21.70	QP	
4	0.2140	13.38	10.37	23.75	53.05	-29.30	AVG	
5	0.4260	30.01	10.53	40.54	57.33	-16.79	QP	
6 *	0.4260	23.58	10.53	34.11	47.33	-13.22	AVG	
7	1.6940	21.98	10.64	32.62	56.00	-23.38	QP	
8	1.6940	14.30	10.64	24.94	46.00	-21.06	AVG	
9	3.3340	18.14	10.49	28.63	56.00	-27.37	QP	
10	3.3340	5.06	10.49	15.55	46.00	-30.45	AVG	
11	6.2619	25.32	10.37	35.69	60.00	-24.31	QP	
12	6.2619	19.31	10.37	29.68	50.00	-20.32	AVG	

*:Maximum data x:Over limit !:over margin Engineer Signature: Ryan





Remark:

Measurement (dBuV) = Reading Level (dBuV) + Correct Factor(dB)

Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

Over Limit = Measurement - Limit

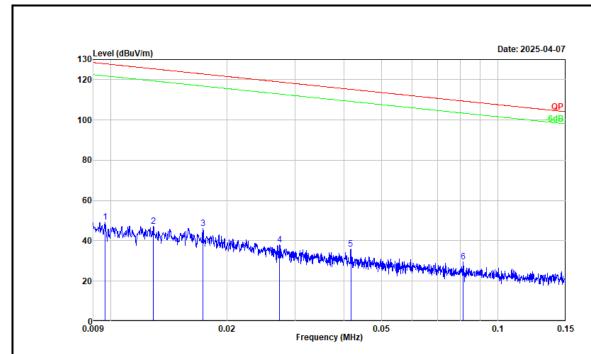


3.4 Radiated emission Test Data

9 kHz-30MHz:

Test Date:	2025-04-07	Test By:	Luke Li
Environment condition:	Temperature: 24.2°C; Relative	Humidity:57%; ATM Pres	ssure: 101.1kPa

Model: PTW02



Project No. : 2505R50271E-RFA1 Test Mode : Transmitting Test Voltage : AC 240V/60Hz

Environment : $24.2\,^{\circ}\text{C/57\%R.H./101.1kPa}$

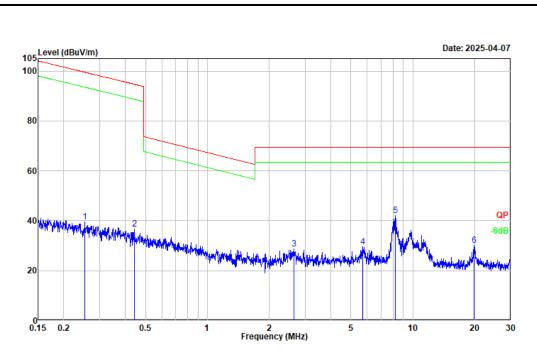
Tested by : Luke Li Polarization : PARALLEL Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	0.010	11.63	37.55	49.18	127.90	-78.72	Peak	
2	0.013	11.77	35.45	47.22	125.39	-78.17	Peak	
3	0.017	13.46	32.65	46.11	122.84	-76.73	Peak	
4	0.027	11.69	26.29	37.98	118.87	-80.89	Peak	
5	0.042	13.55	22.21	35.76	115.20	-79.44	Peak	
6	0.081	13.14	16.28	29.42	109.39	-79.97	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor Over Limit = Result - Limit

SA setting: RBW/VBW: 200Hz/1kHz, DET: PK





Environment : $24.2\,^{\circ}\text{C/57\%R.H./101.1kPa}$

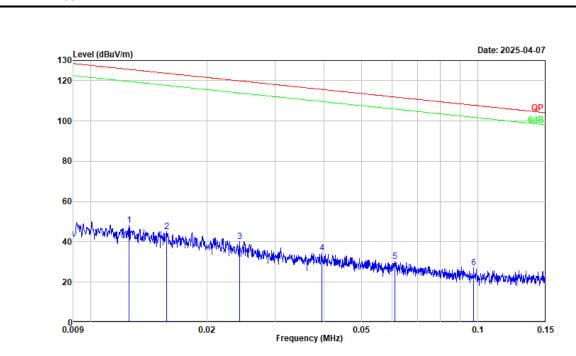
Tested by : Luke Li Polarization : PARALLEL : BLE 1M 2402 Remark

No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.253	28.87	10.75	39.62	99.53	-59.91	Peak
2	0.441	29.95	6.79	36.74	94.72	-57.98	Peak
3	2.636	31.61	-2.88	28.73	69.54	-40.81	Peak
4	5.698	33.49	-4.02	29.47	69.54	-40.07	Peak
5	8.192	45.82	-3.80	42.02	69.54	-27.52	Peak
6	19.897	33.12	-3.08	30.04	69.54	-39.50	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor Over Limit = Result - Limit SA setting: RBW/VBW: 9kHz/30kHz, DET: PK



Model: PTW03



Project No. : 2505R50271E-RFA1 Test Mode : Transmitting Test Voltage : AC 120V/60Hz

Environment : $24.2\,^{\circ}\text{C/57\%R.H./101.1kPa}$

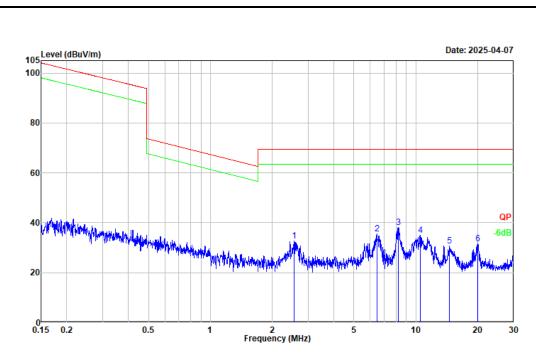
Tested by : Luke Li Polarization : PARALLEL Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.013	12.65	35.66	48.31	125.62	-77.31	Peak
2	0.016	11.42	33.66	45.08	123.68	-78.60	Peak
3	0.024	11.88	28.26	40.14	119.91	-79.77	Peak
4	0.040	11.77	22.64	34.41	115.66	-81.25	Peak
5	0.061	11.30	18.99	30.29	111.89	-81.60	Peak
6	0.098	12.00	15.27	27.27	107.82	-80.55	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor Over Limit = Result - Limit

SA setting: RBW/VBW: 200Hz/1kHz, DET: PK





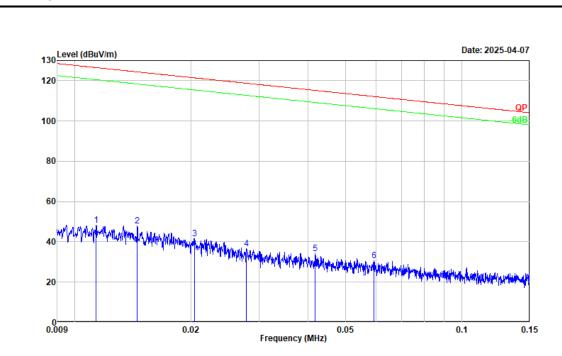
Environment : $24.2\,^{\circ}\text{C}/57\%\text{R.H.}/101.1\text{kPa}$

Tested by : Luke Li Polarization : PARALLEL : BLE 1M 2402 Remark

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2.560	35.65	-2.82	32.83	69.54	-36.71	Peak	
2	6.471	39.60	-4.01	35.59	69.54	-33.95	Peak	
3	8.235	41.95	-3.78	38.17	69.54	-31.37	Peak	
4	10.480	38.33	-3.38	34.95	69.54	-34.59	Peak	
5	14.594	34.34	-3.50	30.84	69.54	-38.70	Peak	
6	20.003	34.79	-3.08	31.71	69.54	-37.83	Peak	



Model: PTW04



Project No. : 2505R50271E-RFA1 Test Mode : Transmitting Test Voltage : AC 240V/60Hz

Environment : $24.2\,^{\circ}\text{C/57\%R.H./101.1kPa}$

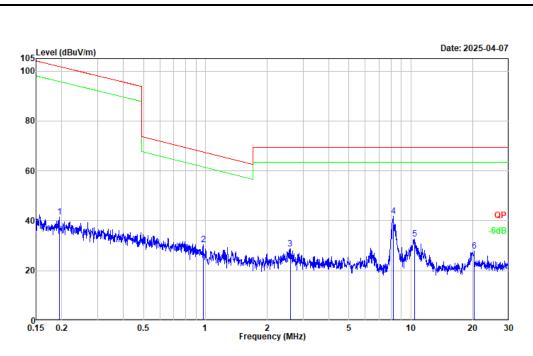
Tested by : Luke Li Polarization : PARALLEL Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.011	11.78	36.42	48.20	126.49	-78.29	Peak
2	0.015	13.38	34.42	47.80	124.37	-76.57	Peak
3	0.020	11.01	30.71	41.72	121.42	-79.70	Peak
4	0.028	10.53	25.99	36.52	118.72	-82.20	Peak
5	0.042	11.97	22.20	34.17	115.19	-81.02	Peak
6	0.059	11.30	19.22	30.52	112.13	-81.61	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor Over Limit = Result - Limit

SA setting: RBW/VBW: 200Hz/1kHz, DET: PK





Environment : $24.2\,^{\circ}\text{C/57\%R.H./101.1kPa}$

Tested by : Luke Li Polarization : PARALLEL : BLE 1M 2402 Remark

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.194	29.23	12.39	41.62	101.83	-60.21	Peak
2	0.979	29.64	0.73	30.37	67.66	-37.29	Peak
3	2.588	31.65	-2.84	28.81	69.54	-40.73	Peak
4	8.213	45.54	-3.80	41.74	69.54	-27.80	Peak
5	10.397	36.05	-3.38	32.67	69.54	-36.87	Peak
6	20.323	30.95	-3.10	27.85	69.54	-41.69	Peak

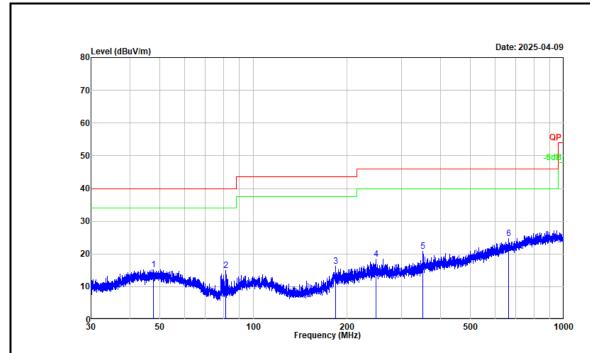
Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor Over Limit = Result - Limit SA setting: RBW/VBW: 9kHz/30kHz, DET: PK



30MHz-1GHz:

Test Date:	2025-04-07~2025-04-09	Test By:	Luke Li	
Environment condition:	Temperature: 24.1~24.2°C; Re 101.1~100.7kPa	lative Humidity:57~62%;	ATM Pressure:	

Model: PTW02



Project No. : 2505R50271E-RFA1 Test Mode : Transmitting Test Voltage : AC 240V/60Hz

Environment : 24.1° C/62%R.H./100.7kPa

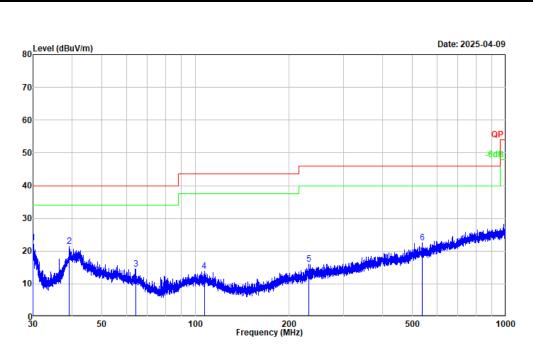
Tested by : Luke Li Polarization : horizontal Remark : BLE 1M 2402

Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
47.533	27.29	-12.08	15.21	40.00	-24.79	Peak	
81.533	32.67	-17.76	14.91	40.00	-25.09	Peak	
184.167	31.40	-15.16	16.24	43.50	-27.26	Peak	
248.334	30.89	-12.39	18.50	46.00	-27.50	Peak	
351.092	30.51	-9.59	20.92	46.00	-25.08	Peak	
664.346	28.93	-4.25	24.68	46.00	-21.32	Peak	
	47.533 81.533 184.167 248.334 351.092	(MHz) (dBμV) 47.533 27.29 81.533 32.67 184.167 31.40 248.334 30.89 351.092 30.51	(MHz) (dBμV) (dB/m) 47.533 27.29 -12.08 81.533 32.67 -17.76 184.167 31.40 -15.16 248.334 30.89 -12.39 351.092 30.51 -9.59	(MHz) (dBμV) (dB/m) (dBμV/m) 47.533 27.29 -12.08 15.21 81.533 32.67 -17.76 14.91 184.167 31.40 -15.16 16.24 248.334 30.89 -12.39 18.50 351.092 30.51 -9.59 20.92	(MHz) (dBμV) (dB/m) (dBμV/m) (dBμV/m) 47.533 27.29 -12.08 15.21 40.00 81.533 32.67 -17.76 14.91 40.00 184.167 31.40 -15.16 16.24 43.50 248.334 30.89 -12.39 18.50 46.00 351.092 30.51 -9.59 20.92 46.00	(MHz) (dBμV) (dB/m) (dBμV/m) (dBμV/m) (dB) 47.533 27.29 -12.08 15.21 40.00 -24.79 81.533 32.67 -17.76 14.91 40.00 -25.09 184.167 31.40 -15.16 16.24 43.50 -27.26 248.334 30.89 -12.39 18.50 46.00 -27.50 351.092 30.51 -9.59 20.92 46.00 -25.08	(MHz) (dBμV) (dB/m) (dBμV/m) (dBμV/m) (dB) 47.533 27.29 -12.08 15.21 40.00 -24.79 Peak 81.533 32.67 -17.76 14.91 40.00 -25.09 Peak 184.167 31.40 -15.16 16.24 43.50 -27.26 Peak 248.334 30.89 -12.39 18.50 46.00 -27.50 Peak 351.092 30.51 -9.59 20.92 46.00 -25.08 Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor Over Limit = Result - Limit

SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK Final measure: RBW: 120kHz, DET: QP





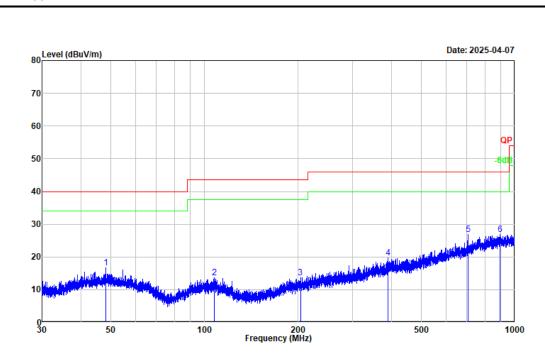
Environment : 24.1° C/62%R.H./100.7kPa

Tested by : Luke Li Polarization : vertical : BLE 1M 2402 Remark

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	30.026	37.55	-14.91	22.64	40.00	-17.36	Peak
2	39.213	34.66	-13.25	21.41	40.00	-18.59	Peak
3	64.151	28.83	-14.20	14.63	40.00	-25.37	Peak
4	106.806	27.79	-13.89	13.90	43.50	-29.60	Peak
5	231.616	28.91	-12.89	16.02	46.00	-29.98	Peak
6	538.061	29.09	-6.63	22.46	46.00	-23.54	Peak



Model: PTW03



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz

Environment : $24.2\,^{\circ}\text{C}/57\%\text{R.H.}/101.1\text{kPa}$

Tested by : Luke Li Polarization : horizontal Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	48.205	28.77	-12.08	16.69	40.00	-23.31	Peak	
2	107.652	27.66	-13.90	13.76	43.50	-29.74	Peak	
3	203.880	27.49	-13.73	13.76	43.50	-29.74	Peak	
4	391.065	28.70	-8.87	19.83	46.00	-26.17	Peak	
5	705.771	30.83	-3.92	26.91	46.00	-19.09	Peak	
6	897.783	28.25	-1.43	26.82	46.00	-19.18	Peak	

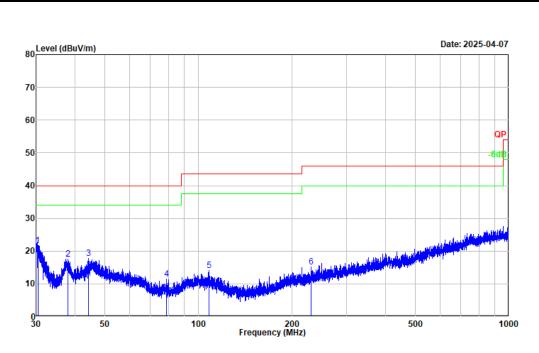
Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor

Over Limit = Result - Limit

SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK

Final measure: RBW: 120kHz, DET: QP





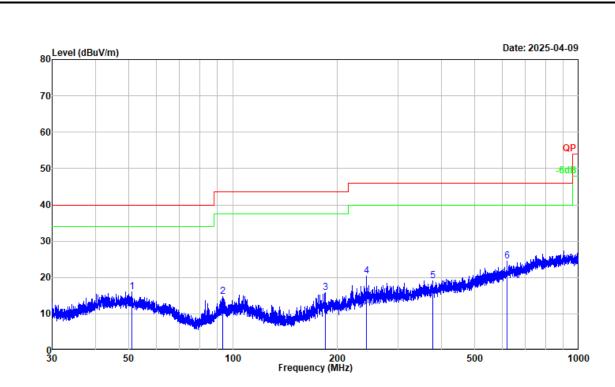
Environment : $24.2\,^{\circ}\text{C/57\%R.H./101.1kPa}$

Tested by : Luke Li Polarization : vertical : BLE 1M 2402 Remark

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	30.397	36.73	-15.03	21.70	40.00	-18.30	Peak
2	37.928	31.22	-13.56	17.66	40.00	-22.34	Peak
3	44.295	30.03	-12.17	17.86	40.00	-22.14	Peak
4	78.827	29.64	-18.09	11.55	40.00	-28.45	Peak
5	108.314	28.08	-13.93	14.15	43.50	-29.35	Peak
6	230.705	28.08	-12.91	15.17	46.00	-30.83	Peak



Model: PTW04



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 240V/60Hz

Environment : 24.1℃/62%R.H./100.7kPa

Tested by : Luke Li Polarization : horizontal : BLE 1M 2402 Remark

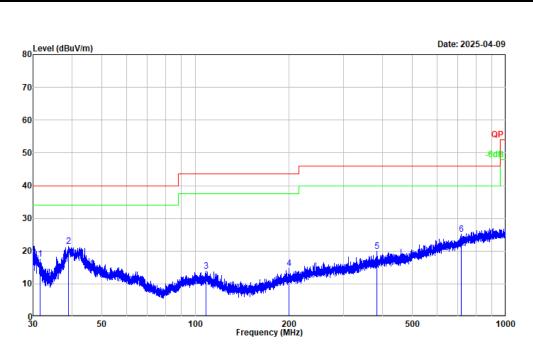
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	51.009	28.12	-12.08	16.04	40.00	-23.96	Peak
2	93.522	29.70	-14.92	14.78	43.50	-28.72	Peak
3	184.895	30.87	-15.09	15.78	43.50	-27.72	Peak
4	242.738	33.01	-12.54	20.47	46.00	-25.53	Peak
5	377.590	28.44	-9.25	19.19	46.00	-26.81	Peak
6	620.982	29.10	-4.66	24.44	46.00	-21.56	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor

Over Limit = Result - Limit

SA setting: Pre-scan: RBW/VBW: 100kHz/300kHz, DET: PK Final measure: RBW: 120kHz, DET: QP





Environment : 24.1° C/62%R.H./100.7kPa

Tested by : Luke Li Polarization : vertical : BLE 1M 2402 Remark

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	31.592	32.80	-15.22	17.58	40.00	-22.42	Peak
2	39.007	34.74	-13.32	21.42	40.00	-18.58	Peak
3	108.124	27.87	-13.91	13.96	43.50	-29.54	Peak
4	199.898	28.44	-13.72	14.72	43.50	-28.78	Peak
5	383.259	28.94	-9.08	19.86	46.00	-26.14	Peak
6	717.940	28.74	-3.63	25.11	46.00	-20.89	Peak



Above 1GHz:

Test Date:	2025-04-18	Test By:	Bard Huang
Environment condition:	Temperature:24 °C; Relative H	umidity:64%; ATM Pre	ssure: 100.4kPa

Model: PTW03

Frequency (MHz)	Reading level (dBµV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark				
	BLE 1M										
			Low Ch	annel							
4804.000	46.95	horizontal	-2.42	44.53	74.00	-29.47	Peak				
4804.000	47.65	vertical	-2.42	45.23	74.00	-28.77	Peak				
			Middle C	nannel							
4880.000	47.79	horizontal	-1.88	45.91	74.00	-28.09	Peak				
4880.000	47.52	vertical	-1.88	45.64	74.00	-28.36	Peak				
	High Channel										
4960.000	47.88	horizontal	-1.70	46.18	74.00	-27.82	Peak				
4960.000	46.90	vertical	-1.70	45.20	74.00	-28.80	Peak				

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude – Limit

For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

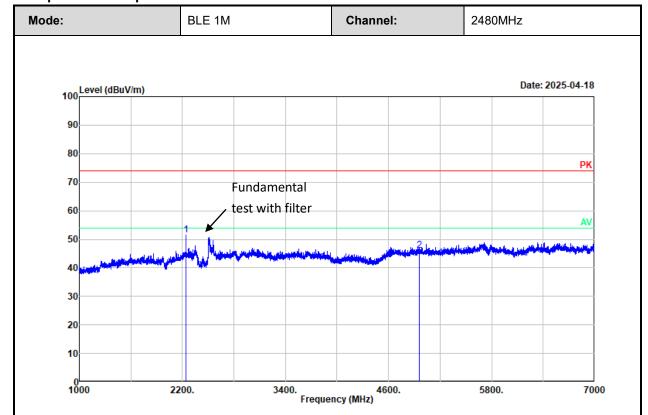
The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.

For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.

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Test plot for example as below:



Project No. : 2505R50271E-RFA1
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz

Environment : 24.0℃/64%R.H./100.4kPa

Tested by : Barg Huang Polarization : horizontal Remark : BLE 1M 2480

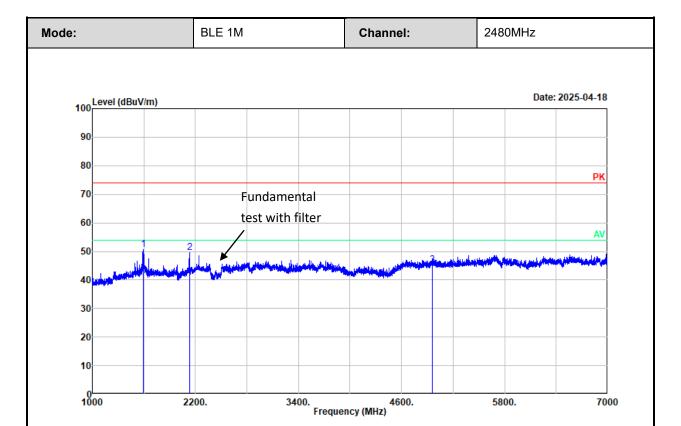
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)		Over Limit (dB)	Detector
1	2240.000	54.73	-3.12	51.61	74.00	-22.39	Peak
2	4960.000	47.88	-1.70	46.18	74.00	-27.82	Peak
	4900.000	47.00	-1.70	40.10	74.00	-2/.02	reak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain Result = Reading + Factor

Result = Reading + Factor
Over Limit = Result - Limit

SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK





Environment : 24.0℃/64%R.H./100.4kPa

Tested by : Barg Huang Polarization : vertical Remark : BLE 1M 2480

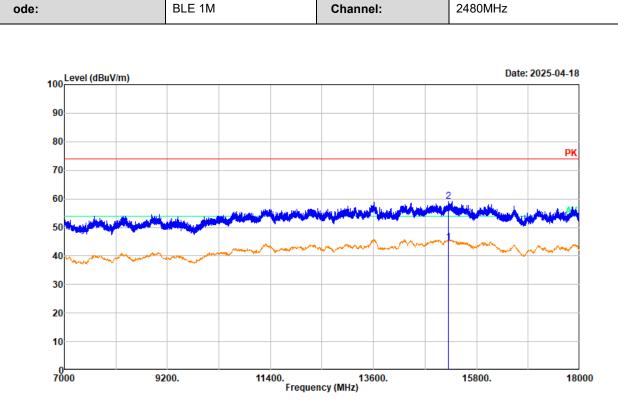
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1 2	1592.000 2132.000	54.90 53.57	-4.28 -3.95	50.62 49.62	74.00 74.00	-23.38 -24.38	Peak Peak
3	4960.000	46.90	-1.70	45.20	74.00	-28.80	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor Over Limit = Result - Limit

SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK





Environment : 24.0℃/64%R.H./100.4kPa

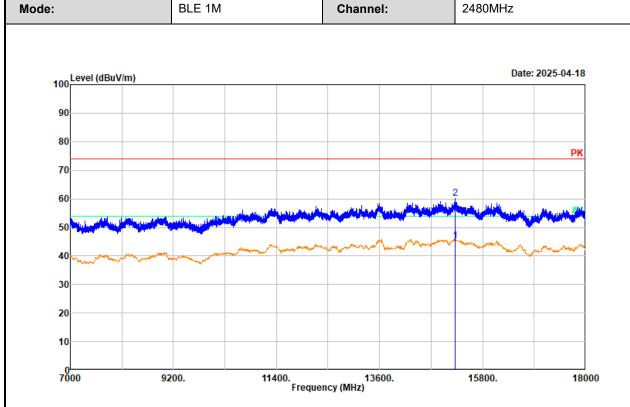
Tested by : Barg Huang Polarization : horizontal Remark : BLE 1M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	15198.000	38.32	6.29	44.61	54.00	-9.39	Average	
2	15198.000	52.92	6.29	59.21	74.00	-14.79	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





Environment : 24.0℃/64%R.H./100.4kPa

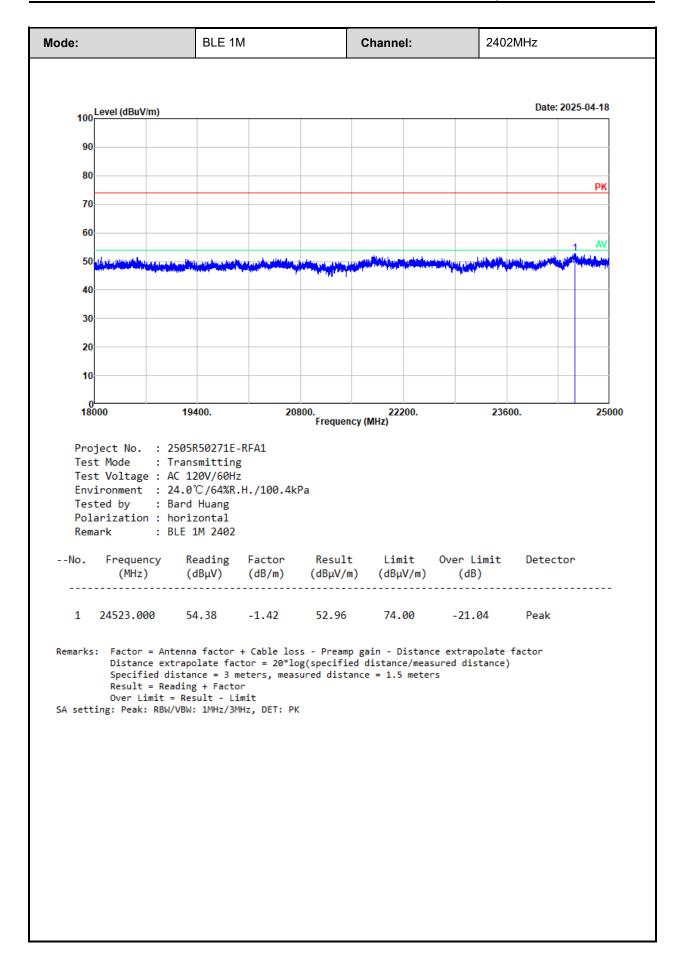
Tested by : Barg Huang Polarization : vertical Remark : BLE 1M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector	
1	15213.000	38.88	6.28	45.16	54.00	-8.84	Average	
2	15213.000	53.76	6.28	60.04	74.00	-13.96	Peak	

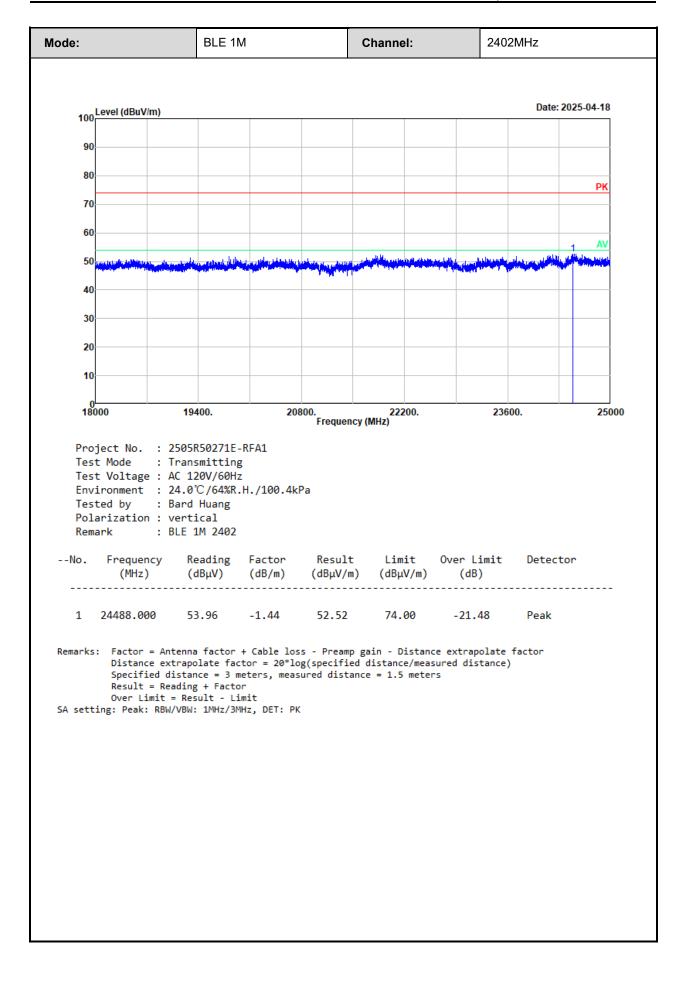
Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor



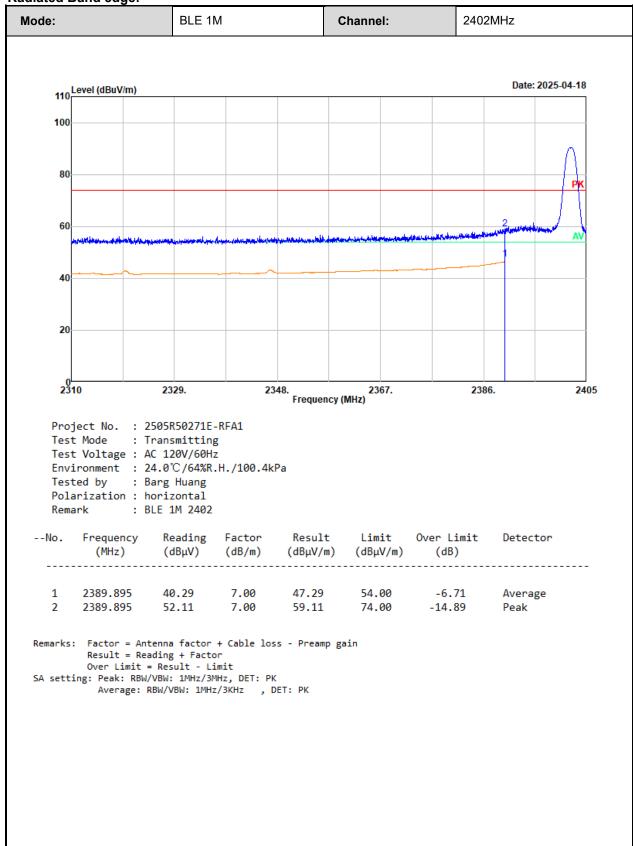




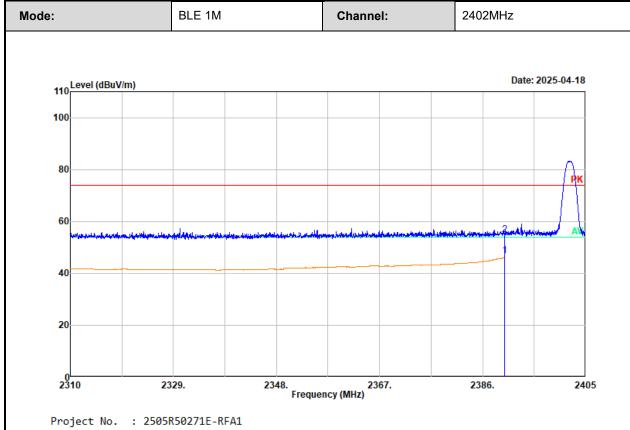




Radiated Band edge:







Environment : 24.0℃/64%R.H./100.4kPa

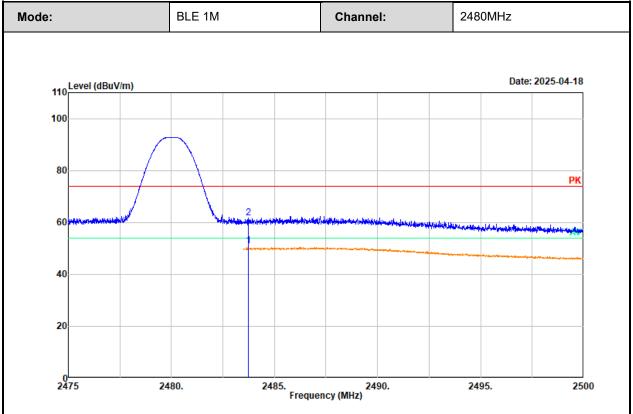
Tested by : Barg Huang Polarization : vertical Remark : BLE 1M 2402

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2389.990	39.66	7.00	46.66	54.00	-7.34	Average	
2	2389.990	47.87	7.00	54.87	74.00	-19.13	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





Environment : 24.0℃/64%R.H./100.4kPa

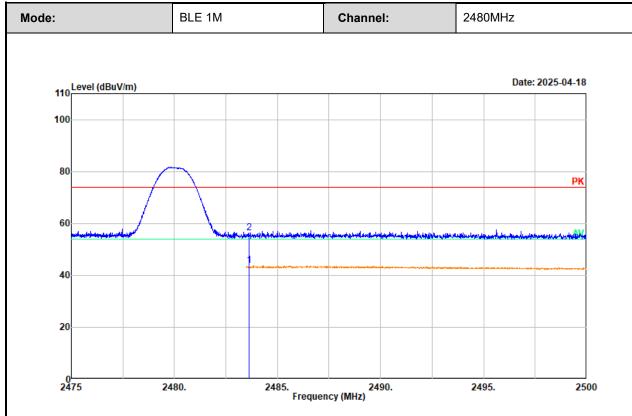
Tested by : Barg Huang Polarization : horizontal Remark : BLE 1M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector	
1	2483.738	43.84	7.20	51.04	54.00	-2.96	Average	
2	2483.738	54.52	7.20	61.72	74.00	-12.28	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor





Environment : 24.0℃/64%R.H./100.4kPa

Tested by : Barg Huang Polarization : vertical Remark : BLE 1M 2480

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector	
1	2483.625	36.77	7.20	43.97	54.00	-10.03	Average	
2	2483.625	49.26	7.20	56.46	74.00	-17.54	Peak	

Remarks: Factor = Antenna factor + Cable loss - Preamp gain

Result = Reading + Factor



3.5 RF Conducted Test Data

Test Date:	2025-04-22	Test By:	Ryan Zhang			
Environment condition:	Temperature:26.3°C;RelativeH	Temperature:26.3°C;RelativeHumidity:58%; ATM Pressure: 100.5kPa				

3.5.1 Maximum Conducted Peak Output Power

BLE 1M

Channel	Peak Output Power (dBm)	Limit (dBm)	Verdict
Low	-6.91	30.00	Pass
Middle	-7.12	30.00	Pass
High	-7.14	30.00	Pass

 $BLE_1M_Low_Channel$



 $BLE_1M_Middle_Channel$



Date: 22.APR.2025 10:57:26

Project No. 2505R50271E-RFA1 Tester: Ryan Zhang

Date: 22.APR.2025 10:57:50

Project No: 2505R50271E-RFA1 Tester: Ryan Zhang

BLE_1M_High_Channel



Date: 22.APR.2025 10:59:07

Project No: 2505R50271E-RFA1 Tester: Ryan Zhan

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4 Test Setup Photo

Please refer to the attachment 2505R50271E-A1Test Setup photo.



5 E.U.T Photo

Please refer to the attachment 2505R50271E-A1 External photo and 2505R50271E-A1 Internal photo.

---End of Report---