



FCC PART 15.247 TEST REPORT

For

SPACEWALKER PTE. LTD.

60 PAYA LEBAR ROAD SINGAPORE Singapore

FCC ID: 2BK3M-XT5U001

Product Name: Report Type: Original Report Electric Scooter **Report Number:** RKSA250425003-00A **Report Date:** 2025-07-28 Rarel lin **Reviewed By:** Bard Liu Kyle Xu Approved By: Prepared By: Bay Area Compliance Laboratories Corp. (Kunshan) No.248 Chenghu Road, Kunshan, Jiangsu Province, China Tel: +86-512-86175000 Fax: +86-512-88934268 www.baclcorp.com.cn

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S. Government.

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REPORT REVISION HISTORY

Number of Revisions	Revisions Report No. Version Iss		Issue Date	Description
0	RKSA250425003-00A	R1V1	2025-07-28	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	SPACEWALKER PTE. LTD.
Tested Model:	XT5 Ultra US
Product Name:	Electric Scooter
Power Supply:	DC 46.8V from battery or DC 54.6V from adapter
RF Function:	BLE
Operating Band/Frequency:	BLE (1 Mbps): 2402-2480 MHz BLE (2 Mbps): 2404-2478 MHz
Maximum Output Power:	BLE (1 Mbps): 7.35 dBm BLE (2 Mbps): 7.42 dBm
Channel Number:	40
Channel Separation:	2 MHz
Modulation Type	GFSK
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	1.22 dBi

Adapter Information: Model: FY2475464000

Input: 100-240V, 50/60Hz, 3.5A

Output: 54.6V, 4.0A

Note: The maximum antenna gain was provided by the applicant.

All measurement and tested data in this report was gathered from production sample serial number: RKSA250425003-1/RKSA250425003-2 (Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2025-04-25.)

Objective

This report is prepared for *SPACEWALKER PTE. LTD.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communications Commission rules.

The tests were performed in order to determine Compliant with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10:2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and FCC KDB 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

Item		Uncertainty
AC Power Line	es Conducted Emissions	3.19 dB
RF conducte	ed test with spectrum	0.9 dB
RF Output Po	wer with Power meter	0.5 dB
	9 kHz~150 kHz	3.8 dB
	150 kHz~30 MHz	3.4 dB
D 11 4 1 1 1	30MHz~1GHz	6.11 dB
Radiated emissions	1GHz~6GHz	4.45 dB
	6GHz~18GHz	5.23 dB
	18GHz~40GHz	5.65 dB
Оссир	vied Bandwidth	0.5 kHz
Te	emperature	1.0 °C
]	Humidity	6 %

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel List for BLE mode:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470
7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	/	/
13	2428	27	2456	/	/

EUT BLE 1M was tested with channel 0, 19 and 39, EUT BLE 2M was tested with channel 1, 19 and 38.

EUT Exercise Software

RF Test Tool: RTL8762x_RF Test Tool

★Power level: Default

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

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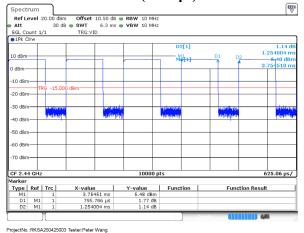
Environmental Conditions & Test Information

Test Date:	2025-05-16
Temperature:	25 ℃
Relative Humidity:	53 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Peter Wang

Duty Cycle:

Date: 16.MAY.2025 10:08:28



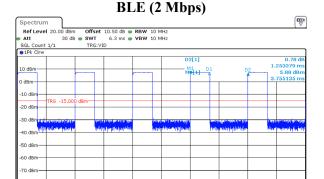


ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:16:59

CF 2.44 GH

Type Ref Trc

X-value 3.755135 ms 417.585 μs 1.253379 ms



Y-value Function 5.88 dBm

Function Result

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Mode	Duty Cycle (%)	Ton(ms)	Ton+off(ms)
BLE (1 Mbps)	63.48	0.796	1.254
BLE (2 Mbps)	33.36	0.418	1.253

Note: Offset(10.5dB) = Attenuator(10dB)+Cable loss(0.5dB)

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Lenovo	Notebook	Thinkpad T470S	83ECAF1B-E1AF-4053- 95DE-2E51B8D188D7
/	Debug board	/	/

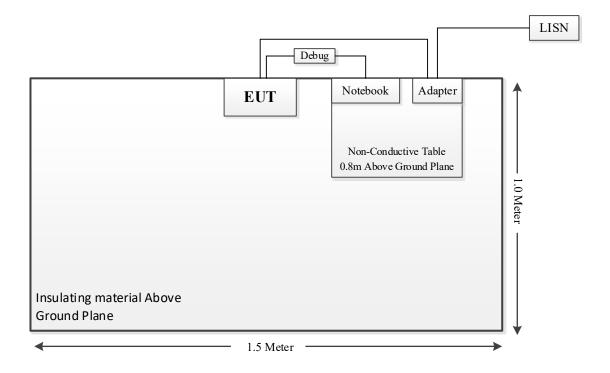
Report No.: RKSA250425003-00A

External I/O Cable

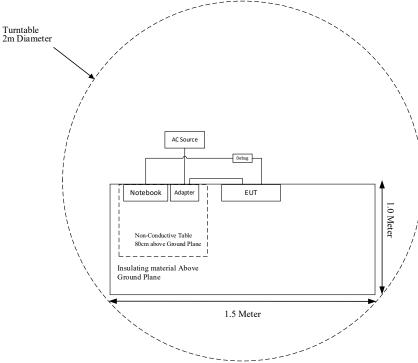
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	LISN/AC Source	Adapter
Power Cable 2	1.5	Adapter	EUT
Data Cable 1	0.2	EUT	Debug board
Data Cable 2	1.5	Debug board	Notebook

Block Diagram of Test Setup

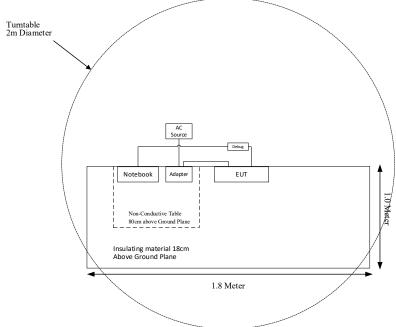
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



Note: The EUT Antenna 1.5m above Ground Plane

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date		
Radiated Emission Test (Chamber #1)							
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08		
Sunol Sciences	Broadband Antenna	JB3	A090314-1	2024-11-08	2027-11-07		
Narda	6dB Attenuator	773-6	10690812-2-1	2024-10-29	2027-10-28		
BACL	Active Loop Antenna	1313-1A	4041511	2024-11-22	2027-11-21		
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08		
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A		
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08		
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08		
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08		
	Radiated E	mission Test (Cha	mber #2)	•	•		
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2025-04-09	2026-04-08		
ETS-LINDGREN	Horn Antenna	3115	9311-4159	2024-12-02	2025-12-01		
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11		
A.H.Systems, inc	Amplifier	PAM-0118P	512	2025-04-09	2026-04-08		
SELECTOR	Amplifier	EM18G40G	060726	2025-04-09	2026-04-08		
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2024-08-05	2025-08-04		
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07		
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A		
MICRO-COAX	Coaxial Cable	Cable-6	006	2025-04-09	2026-04-08		
MICRO-COAX	Coaxial Cable	Cable-11	011	2025-04-09	2026-04-08		
MICRO-COAX	Coaxial Cable	Cable-12	012	2025-04-09	2026-04-08		
MICRO-COAX	Coaxial Cable	Cable-13	013	2025-04-09	2026-04-08		
	R	F Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	103298	2025-04-08	2026-04-07		
Narda	Attenuator	10dB	010	2025-04-08	2026-04-07		
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A		
	Conducted Emission Test						
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03- 101746-zn	2024-07-28	2025-07-27		
Rohde & Schwarz	LISN	ENV216	101115	2025-04-08	2026-04-07		
Audix	Test Software	e3	V9	N/A	N/A		
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	N/A	N/A		
MICRO-COAX	Coaxial Cable	Cable-15	015	2025-04-08	2026-04-07		

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

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b) & §2.1093	RF EXPOSURE	Compliant
§15.203	Antenna Requirement	Compliant
§15.207 (a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliant
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliant
§15.247(b)(3)	Maximum Conducted Output Power	Compliant
§15.247(d)	Band Edge	Compliant
§15.247(e)	Power Spectral Density	Compliant

FCC §1.1307(b) & §2.1093 - RF EXPOSURE

Applicable Standard

According to §2.1093 and §1.1307(b)(1), 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 KDB 447498 D01 General RF Exposure Guidance

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

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

- 1. f(GHz) is the RF channel transmit frequency in GHz.
- 2. Power and distance are rounded to the nearest mW and mm before calculation.
- 3. The result is rounded to one decimal place for comparison.
- 4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Calculated Data:

Mode Frequency Range (MHz)		Cond	une-up lucted ⁄er★	Calculated Distance	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
	()	(dBm)	(mW)	(mm)		(8-)	
BLE	2402-2480	7.45	5.56	5	1.8	3.0	Yes
BLE	2404-2478	7.45	5.56	5	1.8	3.0	Yes

Note: For the above tune up power were declared by the manufacturer.

Conclusion: The device meets the exemption requirement.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to 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.

Antenna Connector Construction

The EUT has a PCB Antenna for BLE, and the antenna gain is 1.22 dBi, which is permanently attached to the unit, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

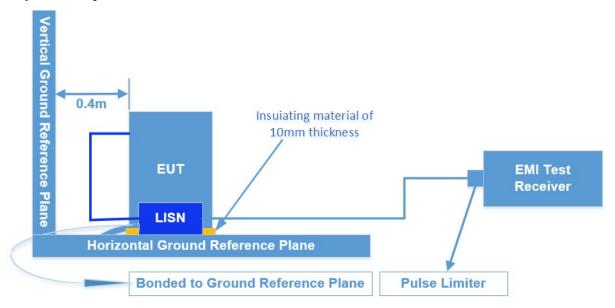
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FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10:2020. The related limit was specified in FCC Part 15.207.

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	RBW	VBW
150 kHz – 30 MHz	9 kHz	30 kHz

Test Procedure

ANSI C63.10:2020 clause 6.2

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

```
Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB) Level (dB\muV) = Read level (dB\muV) + Factor (dB)
```

The "Over Limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

Over Limit (dB) = Level (dB μ V) - Limit (dB μ V)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

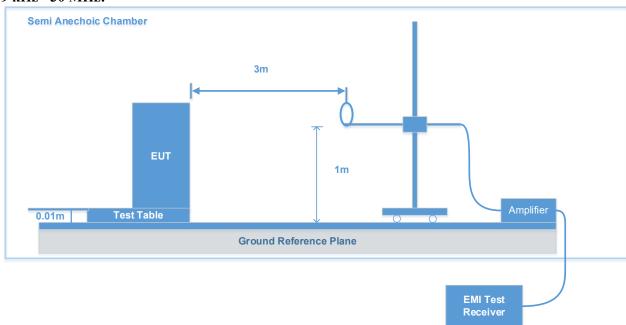
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

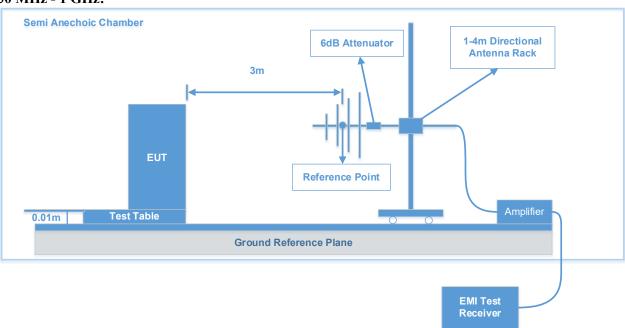
FCC §15.247 (d); §15.209; §15.205;

Test System Setup

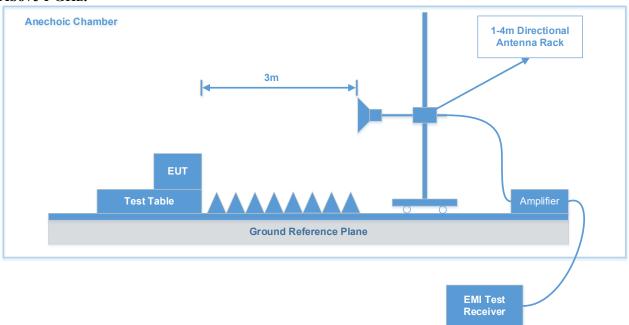
9 kHz - 30 MHz:



30 MHz - 1 GHz:



Above 1 GHz:



Note: The EUT Antenna 1.5m above Ground Plane

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10:2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver Setup

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

Frequency Range	RBW	VBW	IF B/W	Measurement	Detector
9 kHz - 150 kHz	200 Hz	1 kHz	200 Hz	QP/Peak/Average	QP/Peak/Average
150 kHz - 30 MHz	9 kHz	30 kHz	9 kHz	QP/Peak/Average	QP/Peak/Average
30 MHz - 1000	100 kHz	300 kHz	/	Peak	Peak
MHz	/	/	120 kHz	QP	QP
Above 1GHz	1MHz	3 MHz	/	Peak	Peak
Above IGHZ	1MHz	3 MHz	/	Average	Average

Test Procedure

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

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

For 9 kHz-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.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

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Corrected Amplitude ($dB\mu V/m$) = Meter Reading ($dB\mu V$) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dB μ V/m) – Corrected Amplitude (dB μ V/m)

Note: The QuasiPeak ($dB\mu V/m$), MaxPeak ($dB\mu V/m$), Average ($dB\mu V/m$) which shown in the data table are all Corrected Amplitude.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

FCC $\S15.247(a)$ (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

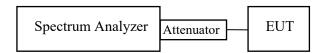
Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

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Test Procedure

According to ANSI C63.10:2020 sub-clause 11.8.1

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



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to 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.

Test Procedure

According to ANSI C63.10:2020 sub-clause 11.9.1.1

- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW \geq [3 × RBW].
- c) Set span $\geq [3 \times RBW]$.
- d) Sweep time = No faster than coupled (auto) time.
- e) Detector = peak.
- f) Trace mode = max-hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(d) – BAND EDGE

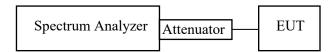
Applicable Standard

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)).

Test Procedure

According to ANSI C63.10:2020 sub-clause 6.10.

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

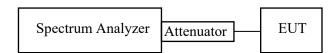
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of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

Test Procedure

According to ANSI C63.10:2020 sub-clause 11.10.2

The following procedure shall be used if maximum peak conducted output power was used to determine compliance, and it is optional if the maximum conducted (average) output power was used to determine compliance:

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



Note: the offset=Attenuator (10dB) + Cable loss (0.5dB) has been added in Spectrum Analyzer.

Test Data: See Appendix

Bay Area Compliance Laboratories Corp. (Kunshan)	Report No.: RKSA250425003-00A				
EUT PHOTOGRAPHS					
Please refer to the attachment EXHIBIT A-EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B-EUT					
INTERNAL PHOTOGRAPHS.					

TEST SETUP PHOTOGRAPHS Please refer to the attachment EXHIBIT C-TEST SETUP PHOTOGRAPHS	S.
	S.

APPENDIX - TEST DATA

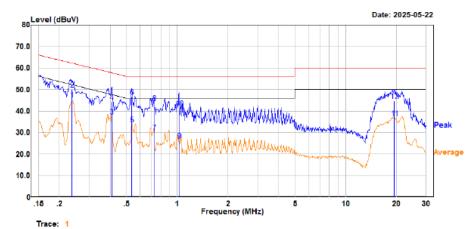
AC LINE CONDUCTED EMISSIONS

Environmental Conditions & Test Information

Test Date:	2025-05-22	
Temperature:	25.3 ℃	
Relative Humidity:	59 %	
ATM Pressure:	101.1 kPa	
Test Result:	Pass	
Test Engineer:	Myles Miao	

EUT operation mode: Transmitting in BLE (1 Mbps) middle channel (maximum output power)

AC 120V/60 Hz, Line



Site : CE

Condition : limit\FCC PART 15.207

: DET:Peak
Project No. : RKSA250425003
Model : XT5 Ultra US

Phase : L

Voltage : 120V/60Hz Mode : BLE 1M Test Equipment : ENV216,ESR

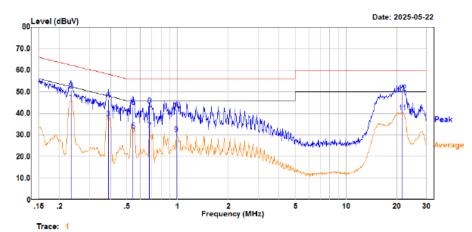
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto

Temperature : 25.3°C Humidity : 59% Atmospheric pressure: 101.1kPa Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHZ	dBuV	dB	dBuV	dBuV	dB	
1	0.237	25.20	20.17	45.37	52.19	-6.82	Average
2	0.237	29.90	20.17	50.07	62.19	-12.12	QP
3	0.409	17.20	20.24	37.44	47.68	-10.24	Average
4	0.409	24.10	20.24	44.34	57.68	-13.34	QP
5	0.537	13.70	20.17	33.87	46.00	-12.13	Average
6	0.537	26.50	20.17	46.67	56.00	-9.33	QP
7	0.732	10.10	20.15	30.25	46.00	-15.75	Average
8	0.732	23.50	20.15	43.65	56.00	-12.35	QP
9	1.027	6.70	19.70	26.40	46.00	-19.60	Average
10	1.027	21.70	19.70	41.40	56.00	-14.60	QP
11	19.444	17.10	19.70	36.80	50.00	-13.20	Average
12	19.444	25.10	19.70	44.80	60.00	-15.20	QP

Report No.: RKSA250425003-00A

AC 120V/60 Hz, Neutral



Site : CE

Project No.

Model

Phase

Condition : limit\FCC PART 15.207

: DET:Peak : RKSA250425003 : XT5 Ultra US : N

Voltage : 120V/60Hz Mode : BLE 1M Test Equipment : ENV216,ESR

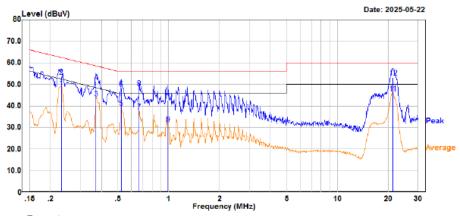
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto

Temperature : 25.3°C
Humidity : 59%
Atmospheric pressure: 101.1kPa
Test Engineer : Myles Miao

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHZ	dBuV	dB	dBuV	dBuV	dB	
1	0.233	25.31	20.16	45.47	52.36	-6.89	Average
2	0.233	30.71	20.16	50.87	62.36	-11.49	QP
3	0.389	17.50	20.23	37.73	48.09	-10.36	Average
4	0.389	26.30	20.23	46.53	58.09	-11.56	QP
5	0.545	11.99	20.18	32.17	46.00	-13.83	Average
6	0.545	22.79	20.18	42.97	56.00	-13.03	QP
7	0.679	12.29	20.22	32.51	46.00	-13.49	Average
8	0.679	23.49	20.22	43.71	56.00	-12.29	QP
9	0.982	10.70	19.71	30.41	46.00	-15.59	Average
10	0.982	22.00	19.71	41.71	56.00	-14.29	QP
11	21.483	20.81	19.72	40.53	50.00	-9.47	Average
12	21.483	30.01	19.72	49.73	60.00	-10.27	OP

EUT operation mode: Transmitting in BLE (2 Mbps) high channel (maximum output power)

AC 120V/60 Hz, Line



Trace: 1 : CE

Condition : limit\FCC PART 15.207

: DET:Peak
Project No. : RKSA250425003
Model : XT5 Ultra US

Phase : L

Site

Voltage : 120V/60Hz Mode : BLE 2M Test Equipment : ENV216,ESR

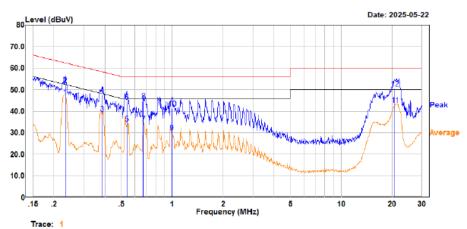
Receiver Setting : RBW: 9 kHz,Sweep Time: Auto Temperature : 25.3°C

Humidity : 59% Atmospheric pressure: 101.1kPa Test Engineer : Myles Miao

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
-	MHZ	dBuV	dB	dBuV	dBuV	dB	
1	0.231	28.11	20.16	48.27	52.40	-4.13	Average
2	0.231	33.41	20.16	53.57	62.40	-8.83	QP
3	0.372	23.30	20.23	43.53	48.47	-4.94	Average
4	0.372	31.10	20.23	51.33	58.47	-7.14	QP
5	0.524	19.01	20.16	39.17	46.00	-6.83	Average
6	0.524	27.91	20.16	48.07	56.00	-7.93	QP
7	0.666	17.30	20.21	37.51	46.00	-8.49	Average
8	0.666	28.10	20.21	48.31	56.00	-7.69	QP
9	0.992	12.00	19.69	31.69	46.00	-14.31	Average
10	0.992	22.80	19.69	42.49	56.00	-13.51	QP
11	21.270	26.10	19.72	45.82	50.00	-4.18	Average
12	21 270	33 50	19 72	52 22	60 00	-6 78	OP

Report No.: RKSA250425003-00A

AC 120V/60 Hz, Neutral



Site : CE

Condition : limit\FCC PART 15.207

: DET:Peak

Project No. : RKSA250425003
Model : XTS Ultra US
Phase : N

Voltage : 120V/60Hz Mode : BLE 2M Test Equipment : ENV216,ESR

Receiver Setting : RBW: 9 kHz,Sweep Time: Auto

Temperature : 25.3°C Humidity : 59% Atmospheric pressure: 101.1kPa Test Engineer : Myles Miao

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.233	26.61	20.16	46.77	52.36	-5.59	Average
2	0.233	32.01	20.16	52.17	62.36	-10.19	QP
3	0.387	18.80	20.23	39.03	48.13	-9.10	Average
4	0.387	27.40	20.23	47.63	58.13	-10.50	QP
5	0.540	14.10	20.17	34.27	46.00	-11.73	Average
6	0.540	24.20	20.17	44.37	56.00	-11.63	QP
7	0.676	13.99	20.22	34.21	46.00	-11.79	Average
8	0.676	24.79	20.22	45.01	56.00	-10.99	QP
9	0.997	10.50	19.68	30.18	46.00	-15.82	Average
10	0.997	21.70	19.68	41.38	56.00	-14.62	QP
11	20.746	23.40	19.71	43.11	50.00	-6.89	Average
12	20.746	30.80	19.71	50.51	60.00	-9.49	QP

SPURIOUS EMISSIONS

Environmental Conditions & Test Information

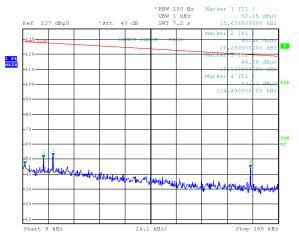
Frequency Range:	9kHz - 1GHz	1 GHz - 18 GHz	18 GHz - 25 GHz
Test Date:	2025-05-12	2025-05-19	2025-05-19
Temperature:	25.8 ℃	24.2 °C	24.2 °C
Relative Humidity:	38 %	49 %	49 %
ATM Pressure:	101.2 kPa	101.0 kPa	101.0 kPa
Test Result:	Pass	Pass	Pass
Test Engineer:	Jonathan	Destine Hu	Hugh Wu

Test Result: Compliant.

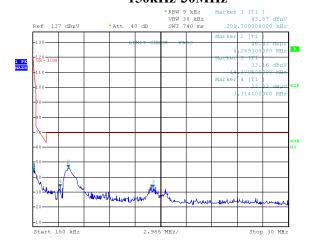
EUT operation mode: Transmitting

9 kHz-30MHz: Transmitting in maximum output power mode BLE (1 Mbps) middle channel Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No.RKSA250425003 Date: 12.MAY.2025 20:01:10 Tester:Jonathan

Project No.RKSA250425003
Date: 12.MAY.2025 20:04:48

Tester:Jonathan

9 kHz-150 kHz

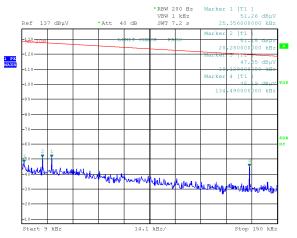
Frequency	Corrected Amplitude	Detector	Corrected	Limit	Margin	
(MHz)	- · ·		Factor (dB/m)	(dBμV/m) @3m	(dB)	
0.010128	46.68	PK	-0.51	127.49	80.81	
0.020280	50.98	PK	-0.56	121.46	70.48	
0.025638	52.15	PK	-0.59	119.43	67.28	
0.134490	44.52	PK	-10.68	105.03	60.51	

150 kHz-30 MHz

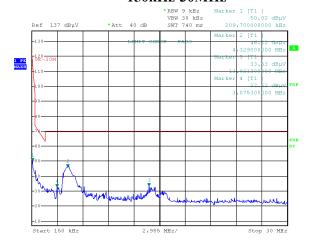
Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.20970	43.87	PK	-13.87	81.17	37.30
3.31410	33.33	PK	-31.57	69.54	36.21
4.26930	46.41	PK	-31.95	69.54	23.13
14.17950	33.16	PK	-33.12	69.54	36.38

9 kHz-30MHz: Transmitting in maximum output power mode BLE (2 Mbps) high channel Parallel(worst case)

9kHz-150kHz



150kHz-30MHz



Project No.RKSA250425003 Date: 12.MAY.2025 20:08:57 Tester:Jonathan

Project No.RKSA250425003
Date: 12.MAY.2025 20:13:36

Tester:Jonathan

9 kHz-150 kHz

Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.010128	47.65	PK	-0.51	127.49	79.84
0.020280	51.15	PK	-0.56	121.46	70.31
0.025356	51.26	PK	-0.59	119.52	68.26
0.134490	45.19	PK	-10.68	105.03	59.84

150 kHz-30 MHz

Frequency (MHz)	Corrected Amplitude (dBµV/m) @3m	Detector PK/QP/Ave.	Corrected Factor (dB/m)	Limit (dBµV/m) @3m	Margin (dB)
0.20970	50.02	PK	-13.87	101.17	51.15
3.07530	32.62	PK	-31.45	69.54	36.92
4.32900	46.22	PK	-31.96	69.54	23.32
13.82130	33.53	PK	-33.10	69.54	36.01

30 MHz - 1 GHz:

Transmitting in maximum output power BLE 1M middle channel Middle Channel: 2440 MHz

Common Information

Project No: RKSA250425003 EUT Model: XT5 Ultra US

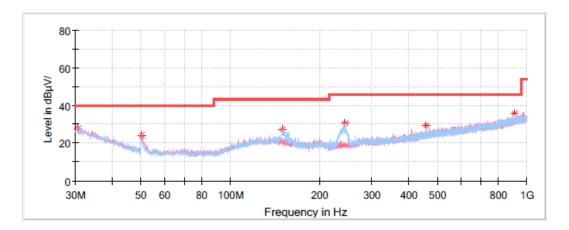
Test Mode: Transmitting in BLE-1M mode middle channel

Standard: FCC Part 15.205 &FCC Part 15.209&FCC Part 15.247

Test Equipment: ESCI, JB3, 310N

Receiver Setting: RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto

Temperature: 25.8℃ Humidity: 38% Barometric Pressure: 101.2kPa Test Engineer: Jonathan Test Date: 2025/5/12



Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
30.606250	27.49	40.00	12.51	V	-5.1
50.127500	24.12	40.00	15.88	V	-17.0
150.401250	27.14	43.50	16.36	Н	-11.7
244.612500	30.60	46.00	15.40	H	-12.2
455.951250	29.21	46.00	16.79	V	-6.5
905.788750	35.53	46.00	10.47	V	1.1

30 MHz - 1 GHz:

Transmitting in maximum output power BLE 2M high channel

High Channel: 2478 MHz

Report No.: RKSA250425003-00A

Common Information

Project No: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: Transmitting in BLE-2M mode high channel

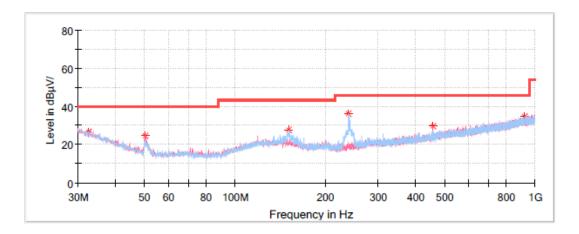
Standard: FCC Part 15.205 &FCC Part 15.209&FCC Part 15.247

Test Equipment: ESCI, JB3, 310N

Receiver Setting: RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto

Temperature: 25.8 ℃
Humidity: 38%

Barometric Pressure: 101.2kPa
Test Engineer: Jonathan
Test Date: 2025/5/12



Critical_Freqs

Frequency	MaxPeak	Limit	Margin	Pol	Corr.
(MHz)	(dB μ V/m)	(dB µ V/m)	(dB)		(dB/m)
32.425000	26.52	40.00	13.48	Н	-6.3
50.370000	24.78	40.00	15.22	V	-17.0
151.250000	27.88	43.50	15.62	Н	-11.7
239.277500	36.21	46.00	9.79	H	-12.3
455.951250	29.44	46.00	16.56	V	-6.5
924.703750	34.61	46.00	11.39	V	1.4

1 GHz-18 GHz: BLE (1 Mbps)

Low Channel: 2402 MHz

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209

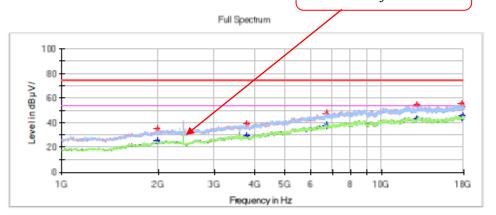
Test Equipment: ESU40,3115,PAM-0118P

Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Temperature: 24.2°C
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/5/19

Fundamental Test with Band Reject Filter

Report No.: RKSA250425003-00A



Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB µ V/m)	(dB μ V/m)	(dB µ V/m)	(dB)		(dB/m)
1992.800000		24.94	54.00	29.06	V	-10.6
1992.800000	34.75		74.00	39.25	٧	-10.6
3784.600000		29.40	54.00	24.60	V	-6.8
3784.600000	38.83		74.00	35.17	٧	-6.8
6708.600000		37.76	54.00	16.24	V	0.4
6708.600000	47.86		74.00	26.14	٧	0.4
12900.000000		43.40	54.00	10.60	Н	8.7
12900.000000	54.30		74.00	19.70	Н	8.7
17758.600000		43.98	54.00	10.02	٧	11.1
17758.600000	54.96		74.00	19.04	V	11.1
17853.800000		45.47	54.00	8.53	Н	11.4
17853.800000	52.84		74.00	21.16	Н	11.4

Middle Channel: 2440 MHz

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209

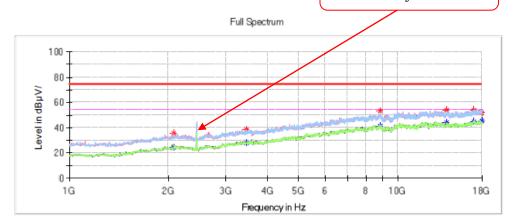
Test Equipment: ESU40,3115,PAM-0118P

Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Temperature: 24.2℃ Humidity: 49% Atmospheric Pressure: 101.0kPa Test Engineer: Destine Hu Test Date: 2025/5/19

Fundamental Test with Band Reject Filter

Report No.: RKSA250425003-00A



Critical Freqs

	_					
Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB μ V/m)	(dB)		(dB/m)
2084.600000		24.59	54.00	29.41	V	-10.4
2084.600000	35.92		74.00	38.08	V	-10.4
3451.400000		28.13	54.00	25.87	Н	-7.5
3451.400000	38.68		74.00	35.32	Н	-7.5
8809.800000		41.14	54.00	12.86	V	4.4
8809.800000	52.95		74.00	21.05	V	4.4
14073.000000		44.09	54.00	9.91	V	8.7
14073.000000	53.84		74.00	20.16	V	8.7
17075.200000	54.16		74.00	19.84	Н	11.1
17075.200000		44.72	54.00	9.28	Н	11.1
17966.000000	51.68		74.00	22.32	V	11.7
17966.000000		45.67	54.00	8.33	٧	11.7

High Channel: 2480 MHz

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209

Test Equipment: ESU40,3115,PAM-0118P

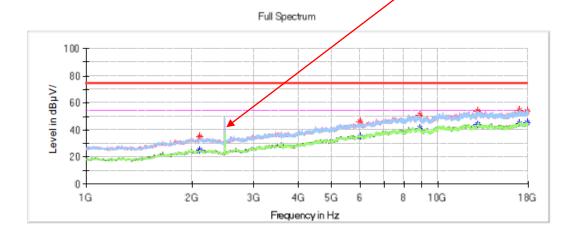
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

2025/5/19

Temperature: 24.2℃ Humidity: 49% Atmospheric Pressure: 101.0kPa Test Engineer: Destine Hu

Fundamental Test with Band Reject Filter

Report No.: RKSA250425003-00A



Critical Freqs

Test Date:

Officious_fireq	_					
Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB µ V/m)	(dB μ V/m)	(dB μ V/m)	(dB)		(dB/m)
2105.000000	-	25.00	54.00	29.00	V	-10.4
2105.000000	35.15	-	74.00	38.85	V	-10.4
5998.000000	-	34.82	54.00	19.18	V	-1.1
5998.000000	45.99		74.00	28.01	V	-1.1
8857.400000		41.16	54.00	12.84	V	4.4
8857.400000	50.91	-	74.00	23.09	V	4.4
12957.800000		43.96	54.00	10.04	٧	8.7
12957.800000	53.61	-	74.00	20.39	V	8.7
17065.000000	54.86		74.00	19.14	Н	11.2
17065.000000		44.54	54.00	9.46	Н	11.2
17894.600000	54.01		74.00	19.99	Н	11.5
17894.600000		45.60	54.00	8.40	Н	11.5

1 GHz-18 GHz: BLE (2 Mbps)

Low Channel: 2404 MHz

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209

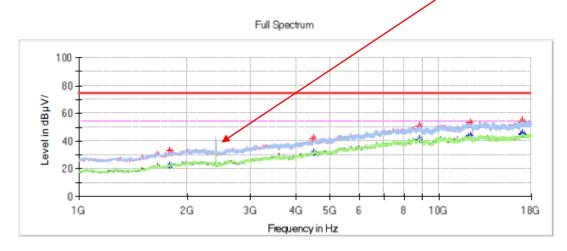
Test Equipment: ESU40,3115,PAM-0118P

Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Temperature: 24.2℃ Humidity: 49% Atmospheric Pressure: 101.0kPa Test Engineer: Destine Hu Test Date: 2025/5/19

Fundamental Test with Band Reject Filter

Report No.: RKSA250425003-00A



Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB μ V/m)	(dB)		(dB/m)
1795.600000	33.10	-	74.00	40.90	V	-12.2
1795.600000		22.63	54.00	31.37	V	-12.2
4498.600000	41.97	-	74.00	32.03	Н	-4.9
4498.600000		31.56	54.00	22.44	Н	-4.9
8816.600000		41.15	54.00	12.85	V	4.4
8816.600000	51.02	-	74.00	22.98	V	4.4
12182.600000		43.92	54.00	10.08	Н	8.2
12182.600000	53.50	-	74.00	20.50	Н	8.2
16993.600000	54.60	-	74.00	19.40	Н	11.2
16993.600000		44.59	54.00	9.41	Н	11.2
17014.000000		45.37	54.00	8.63	V	11.2
17014.000000	52.89		74.00	21.11	V	11.2

Middle Channel: 2440 MHz

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

FCC Part 15.247& FCC Part 15.205& FCC Part 15.209 Standard:

Test Equipment: ESU40,3115,PAM-0118P

Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

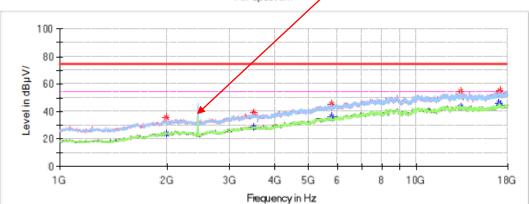
Temperature: 24.2℃ Humidity: 49% Atmospheric Pressure: 101.0kPa Test Engineer: Destine Hu Test Date:

Fundamental Test with Band Reject Filter

Report No.: RKSA250425003-00A



2025/5/19



Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB µ V/m)	(dB μ V/m)	(dB μ V/m)	(dB)		(dB/m)
1992.800000	35.36		74.00	38.64	Н	-10.6
1992.800000		24.07	54.00	29.93	Н	-10.6
3492.200000	39.43		74.00	34.57	V	-7.3
3492.200000		29.00	54.00	25.00	V	-7.3
5783.800000		36.20	54.00	17.80	Н	-1.3
5783.800000	45.12		74.00	28.88	Н	-1.3
13253.600000		43.02	54.00	10.98	V	8.6
13253.600000	54.24		74.00	19.76	V	8.6
17020.800000	53.24		74.00	20.76	Н	11.2
17020.800000		46.03	54.00	7.97	Н	11.2
17150.000000	54.96		74.00	19.04	V	11.0
17150.000000		44.44	54.00	9.56	V	11.0

High Channel: 2478 MHz

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209

Test Equipment: ESU40,3115,PAM-0118P

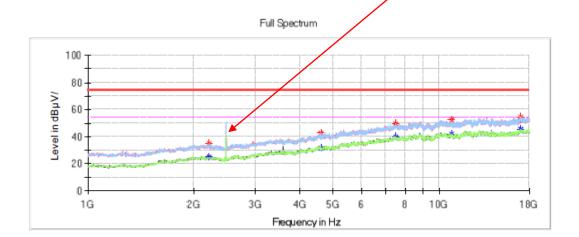
Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

2025/5/19

Temperature: 24.2℃ Humidity: 49% Atmospheric Pressure: 101.0kPa Test Engineer: Destine Hu

Fundamental Test with Band Reject Filter

Report No.: RKSA250425003-00A



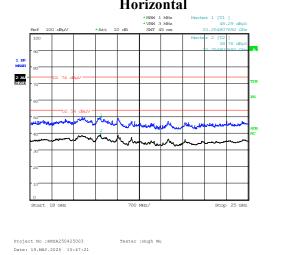
Critical_Freqs

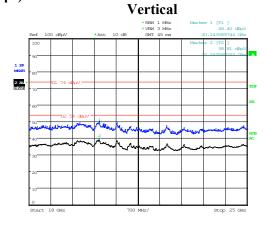
Test Date:

Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB μ V/m)	(dB)		(dB/m)
2207.000000		24.83	54.00	29.17	Н	-10.3
2207.000000	35.00		74.00	39.00	Н	-10.3
4593.800000		31.32	54.00	22.68	V	-4.6
4593.800000	42.81	-	74.00	31.19	V	-4.6
7490.600000		39.75	54.00	14.25	Н	2.8
7490.600000	49.68	-	74.00	24.32	Н	2.8
10829.400000		42.03	54.00	11.97	V	6.2
10829.400000	52.50		74.00	21.50	V	6.2
17044.600000		45.80	54.00	8.20	V	11.2
17044.600000	52.72	-	74.00	21.28	V	11.2
17048.000000		45.55	54.00	8.45	Н	11.2
17048.000000	54.45		74.00	19.55	Н	11.2

18 GHz - 25 GHz:

Transmitting in maximum output power BLE (1 Mbps) middle channel: Horizontal





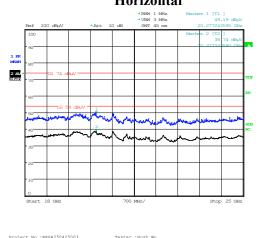
Project No :RKSA250425003 Date: 19.MAY.2025 16:20:13

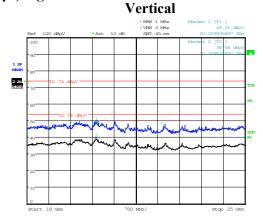
rester :Hugh Wu

Frequency (GHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.24		38.81	54	15.19	V	12.5
20.24	48.4		74	25.6	V	12.5
20.25		38.76	54	15.24	Н	12.51
20.25	48.29		74	25.71	Н	12.51

18 GHz - 25 GHz:

Transmitting in maximum output power BLE (2 Mbps) high channel: Horizontal





Project No :RKSA250425003 Date: 19.MAY.2025 17:29:04

Tester :Hugh Wu

Project No :RKSA250425003 Tester :Hugh Date: 19.MAY.2025 16:53:58

Frequency (GHz)	Max Peak (dBμV/m)	Average (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.21		38.58	54	15.42	V	12.47
20.21	48.21		74	25.79	V	12.47
20.28		38.74	54	15.26	Н	12.53
20.28	49.19		74	24.81	Н	12.53

RESTRICTED BANDS EMISSION: BLE (1 Mbps)

Left Side

Report No.: RKSA250425003-00A

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

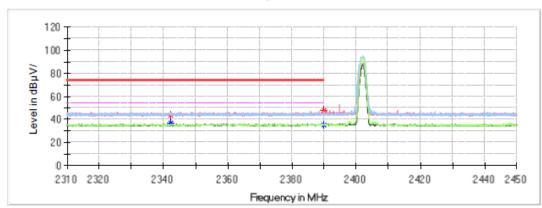
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209

Test Equipment: ESU40,3115,PAM-0118P

Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Temperature: 24.2℃ Humidity: 49% Atmospheric Pressure: 101.0kPa Test Engineer: Destine Hu Test Date: 2025/5/19

Full Spectrum



Critical_Freqs

Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB μ V/m)	(dB)		(dB/m)
2342.424000		36.51	54.00	17.49	V	-0.4
2342.424000	43.40		74.00	30.60	V	-0.4
2389.856000		35.22	54.00	18.78	V	-0.3
2389.856000	47.67		74.00	26.33	V	-0.3

Right Side

Report No.: RKSA250425003-00A

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

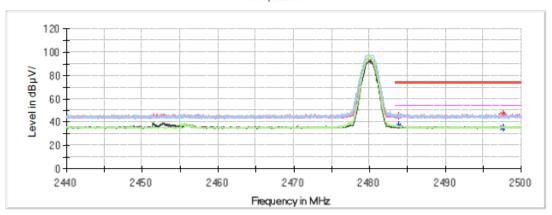
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209

Test Equipment: ESU40,3115,PAM-0118P

Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Temperature: 24.2℃ Humidity: 49% Atmospheric Pressure: 101.0kPa Test Engineer: Destine Hu Test Date: 2025/5/19

Full Spectrum



Critical Freqs

Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB μ V/m)	(dB µ V/m)	(dB μ V/m)	(dB)		(dB/m)
2483.800000		36.92	54.00	17.08	V	-0.2
2483.800000	45.41		74.00	28.59	V	-0.2
2497.576000		35.66	54.00	18.34	Н	-0.2
2497.576000	47.21		74.00	26.79	Н	-0.2

BLE (2 Mbps)

Left Side

Report No.: RKSA250425003-00A

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

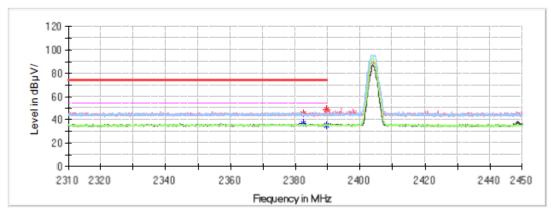
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209

Test Equipment: ESU40,3115,PAM-0118P

Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Temperature: 24.2℃ Humidity: 49% Atmospheric Pressure: 101.0kPa Test Engineer: Destine Hu Test Date: 2025/5/19

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2382.352000		36.71	54.00	17.29	V	-0.3
2382.352000	45.00		74.00	29.00	٧	-0.3
2389.520000		35.62	54.00	18.38	Н	-0.3
2389.520000	48.40		74.00	25.60	Н	-0.3

Right Side

Report No.: RKSA250425003-00A

Common Information

Project No.: RKSA250425003 EUT Model: XT5 Ultra US

Test Mode: BLE

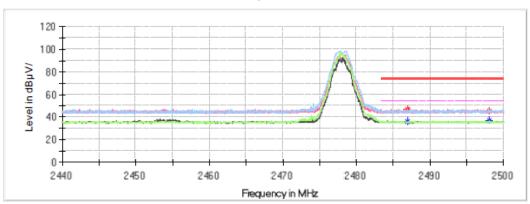
Standard: FCC Part 15.247& FCC Part 15.205& FCC Part 15.209

Test Equipment: ESU40,3115,PAM-0118P

Receiver Setting: RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto

Temperature: 24.2℃
Humidity: 49%
Atmospheric Pressure: 101.0kPa
Test Engineer: Destine Hu
Test Date: 2025/5/19

Full Spectrum



Critical Freqs

	_					
Frequency	MaxPeak	Average	Limit	Margin	Pol	Corr.
(MHz)	(dB μ V/m)	(dB μ V/m)	(dB μ V/m)	(dB)		(dB/m)
2486.896000	46.99		74.00	27.01	Н	-0.2
2486.896000		35.91	54.00	18.09	Н	-0.2
2498.032000	45.60	-	74.00	28.40	V	-0.2
2498.032000		36.83	54.00	17.17	V	-0.2

6 dB EMISSION BANDWIDTH

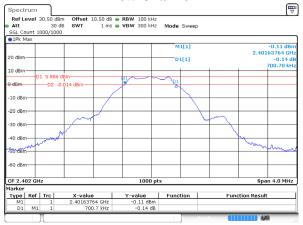
Environmental Conditions & Test Information

Test Date:	2025-05-16
Temperature:	25 ℃
Relative Humidity:	53 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Peter Wang

Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
	Low	2402	0.701	≥0.5
BLE (1 Mbps)	Middle	2440	0.721	≥0.5
	High	2480	0.733	≥0.5

BLE (1 Mbps)

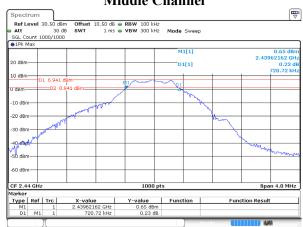




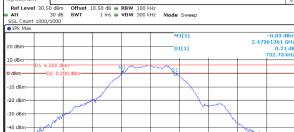
ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:01:55

Middle Channel

Report No.: RKSA250425003-00A



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:05:15

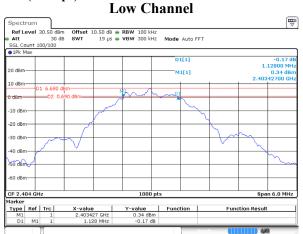


Date: 16.MAY.2025 10:09:34

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Mode	Channel	Frequency (MHz)	6 dB Emission Bandwidth (MHz)	Limit (MHz)
BLE (2 Mbps)	Low	2404	1.128	≥0.5
	Middle	2440	1.152	≥0.5
	High	2478	1.068	≥0.5

BLE (2 Mbps)



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 11:54:35

ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 11:17:34

ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 11:37:51

Environmental Conditions & Test Information

Test Date:	2025-05-16	
Temperature:	25 ℃	
Relative Humidity:	53 %	
ATM Pressure:	100.9 kPa	
Test Result:	Pass	
Test Engineer:	Peter Wang	

Test Result: Compliant.

EUT operation mode: Transmitting

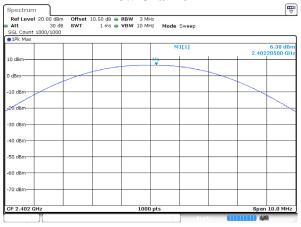
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Report No.: RKSA250425003-00A

Mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
	Low	2402	6.38	30	Pass
BLE (1 Mbps)	Middle	2440	7.35	30	Pass
	High	2480	6.62	30	Pass

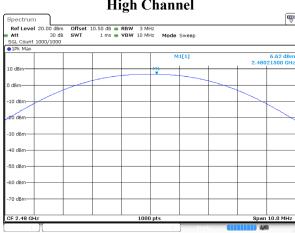
BLE (1 Mbps)

Low Channel



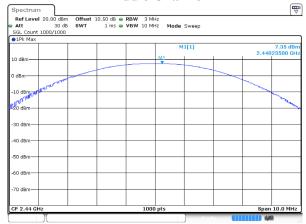
Date: 16.MAY.2025 10:04:28

High Channel



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:11:16

Middle Channel

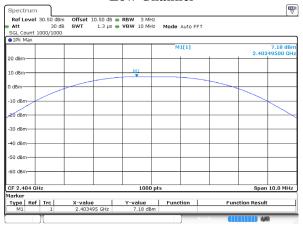


ProjectNo.: RKSA250425003 Tester: Peter Wang Date: 16.MAY.2025 10:08:35

Mode	Channel	Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Limit (dBm)	Result
BLE (2 Mbps)	Low	2404	7.18	30	Pass
	Middle	2440	7.33	30	Pass
	High	2478	7.42	30	Pass

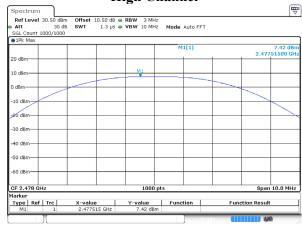
BLE (2 Mbps)

Low Channel



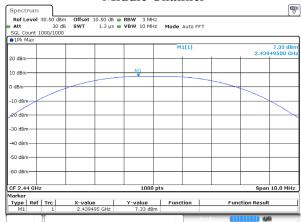
ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 11:43:21

High Channel



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 11:44:51

Middle Channel



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 11:44:11

BAND EDGE

Environmental Conditions & Test Information

Test Date:	2025-05-16
Temperature:	25 ℃
Relative Humidity:	53 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Peter Wang

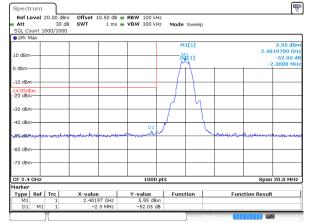
Test Result: Compliant.

EUT operation mode: Transmitting

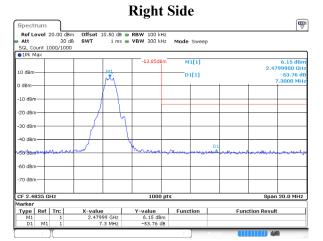
Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
BLE (1 Mbps)	Low	2402	52.05	20
	High	2480	53.76	20

BLE (1 Mbps)





ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:01:48

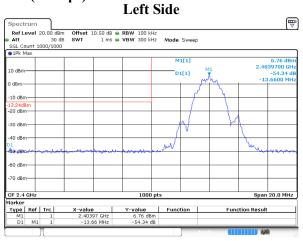


Report No.: RKSA250425003-00A

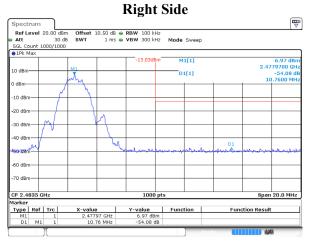
ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16 MAY 2025 10:09:27

Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
BLE (2 Mbps)	Low	2404	54.34	20
	High	2478	54.08	20

BLE (1 Mbps)



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:13:47



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:17:27

POWER SPECTRAL DENSITY

Environmental Conditions & Test Information

Test Date:	2025-05-16
Temperature:	25 ℃
Relative Humidity:	53 %
ATM Pressure:	100.9 kPa
Test Result:	Pass
Test Engineer:	Peter Wang

Test Result: Compliant.

EUT operation mode: Transmitting

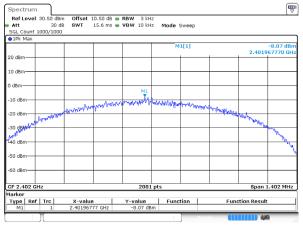
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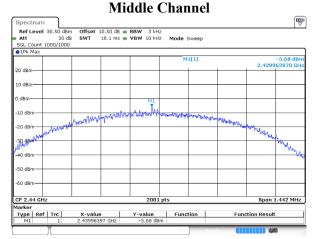
Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
BLE (1 Mbps)	Low	2402	-8.07	≤8
	Middle	2440	-5.68	≤8
	High	2480	-7.16	≤8

BLE (1 Mbps)



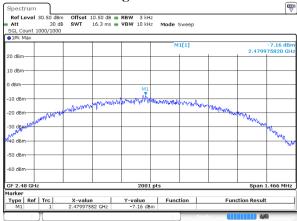


ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:04:53



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:09:00

High Channel

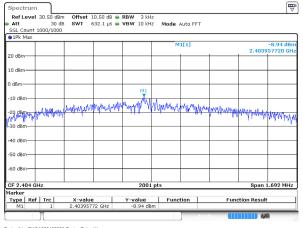


ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 10:11:41

Mode	Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)
	Low	2404	-8.94	≤8
BLE (2 Mbps)	Middle	2440	-8.47	≤8
	High	2478	-7.80	≤8

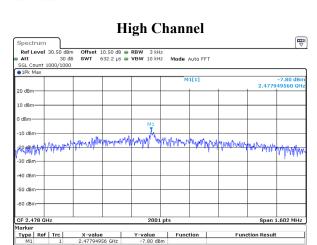
BLE (2 Mbps)



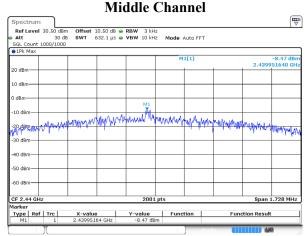


ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY,2025 11:55:44

Project Date: 1



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 11:49:01



ProjectNo.:RKSA250425003 Tester:Peter Wang Date: 16.MAY.2025 11:50:08

Declarations

Report No.: RKSA250425003-00A

- 1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with " \star ".
- 2. The test data was only valid for the test sample(s).
- 3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k=2 with the 95.45% confidence interval.

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

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