

TEST REPORT

FCC ID..... :	2AMSR-CK111B	
Test Report No..... :	TCT250829E021	
Date of issue..... :	Sep. 08, 2025	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	Dongguan Couso Technology Co., Ltd.	
Address..... :	No 2, XingJun Road, Qinghutou, Tangxia Town, Dongguang City, Guangdong Province, China	
Manufacturer's name ... :	Dongguan Couso Technology Co., Ltd.	
Address..... :	No 2, XingJun Road, Qinghutou, Tangxia Town, Dongguang City, Guangdong Province, China	
Standard(s)	FCC CFR Title 47 Part 15 Subpart C Section 15.249 ANSI C63.10:2020	
Product Name..... :	Multimodal wireless keyboard	
Trade Mark	Couso, Banruo	
Model/Type reference..... :	X9RBCPDKKEY, X9RBCPDKKEYG, X9RBCPDKKEYS, X9RBCPDKKEYY, X9RBCPDKKEYW, X9RBCPDKKEYB, X9RBCPDKKEYG, X9RBCPDKKEYS, X9RBCPDKKEYY, X9RBCPDKKEYW, X9RBCPDKKEYB, X9RBCPDKKEY, X9RBCPDKKEYSB, XSRBCPDKKEYBK, X9RBCPDKKEYSW, X9RBCPDKKEYBL, XSRBCPDKKEYPK	
Rating(s)..... :	Rechargeable Li-ion Battery DC 3.7V	
Date of receipt of test item	Aug. 29, 2025	
Date (s) of performance of test..... :	Aug. 29, 2025 ~ Sep. 08, 2025	
Tested by (+signature) ... :	Aaron MO	
Check by (+signature).... :	Beryl ZHAO	
Approved by (+signature):	Tomsin	

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1. General Product Information

1.1. EUT description

Product Name.....:	Multimodal wireless keyboard
Model/Type reference.....:	X9RBCPDKKEY
Sample Number.....:	TCT250829E020-0101
Operation Frequency	2403MHz~2480MHz
Channel Separation	2MHz
Number of Channel	40
Modulation Technology	GFSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	-2.39dBi
Rating(s).....:	Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	X9RBCPDKKEY	☒
Other models	X9RBCPDKKEYG, X9RBCPDKKEYS, X9RBCPDKKEYY, X9RBCPDKKEYW, X9RBCPDKKEYB, X9RBCPDKKEY, X9RBCPDKKEYSB, XSRBCPDKKEYBK, X9RBCPDKKEYSW, X9RBCPDKKEYBL, XSRBCPDKKEYPK	☐

Note: X9RBCPDKKEY is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names, trademark and color. So the test data of X9RBCPDKKEY can represent the remaining models.

1.3. Operation Frequency

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2403MHz	4	2422MHz	8	2441MHz	12	2463MHz
1	2407MHz	5	2426MHz	9	2445MHz	13	2466MHz
2	2414MHz	6	2436MHz	10	2453MHz	14	2473MHz
3	2419MHz	7	2439MHz	11	2459MHz	15	2480MHz

Remark: Channel 0, 8 & 15 have been tested.

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§15.249 (a) (d)/ §15.209	PASS
Band Edge	§15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§15.215 (c)	PASS

Note:

1. Pass: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test Environment and Mode

Operating Environment:		
Condition	Conducted Emission	Radiated Emission
Temperature:	22.8 °C	23.6 °C
Humidity:	50 % RH	47 % RH
Atmospheric Pressure:	1010 mbar	1010 mbar
Test Mode:		
Engineer mode:	Keep the EUT in continuous transmitting by select channel and modulations with Fully-charged battery.	
The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Z axis) are shown in Test Results of the following pages.		

3.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	EP-TA200	R37M4PR7QD4SE3	/	SAMSUNG

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- A2LA-No.: 4320.01

SHENZHEN TONGCE TESTING LAB

The testing lab has been accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

5. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	± 3.10 dB
2	RF power, conducted	± 0.12 dB
3	Spurious emissions, conducted	± 0.11 dB
4	All emissions, radiated(<1 GHz)	± 4.56 dB
5	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
6	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB

6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:

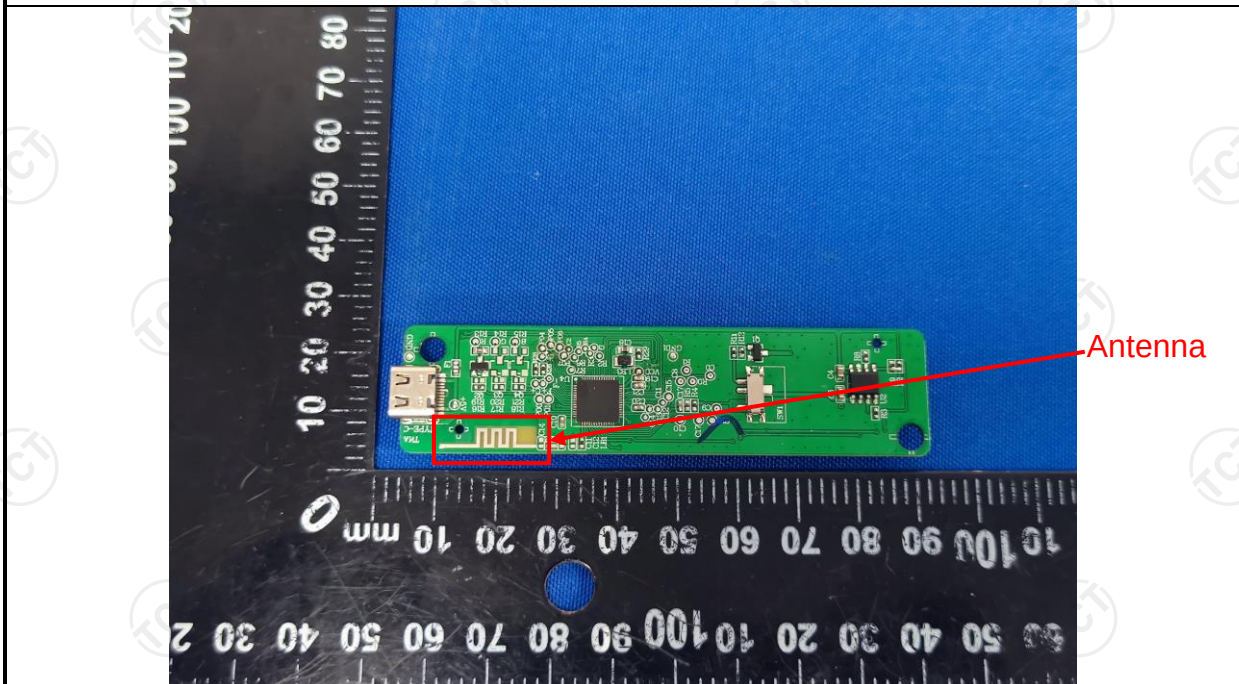
FCC Part15 C Section 15.203

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.

E.U.T Antenna:

The EUT antenna is PCB antenna which permanently attached, and the best case gain of the antenna is -2.39dBi.



6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2020														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table>	Frequency range (MHz)	Limit (dBuV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane 40cm 80cm E.U.T. AC power LISN Filter AC power EMI Receiver Test table/Insulation plane Remark: E.U.T.: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Charging + Transmitting Mode														
Test Procedure:	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. 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 C63.10:2020 on conducted measurement.														
Test Result:	PASS														

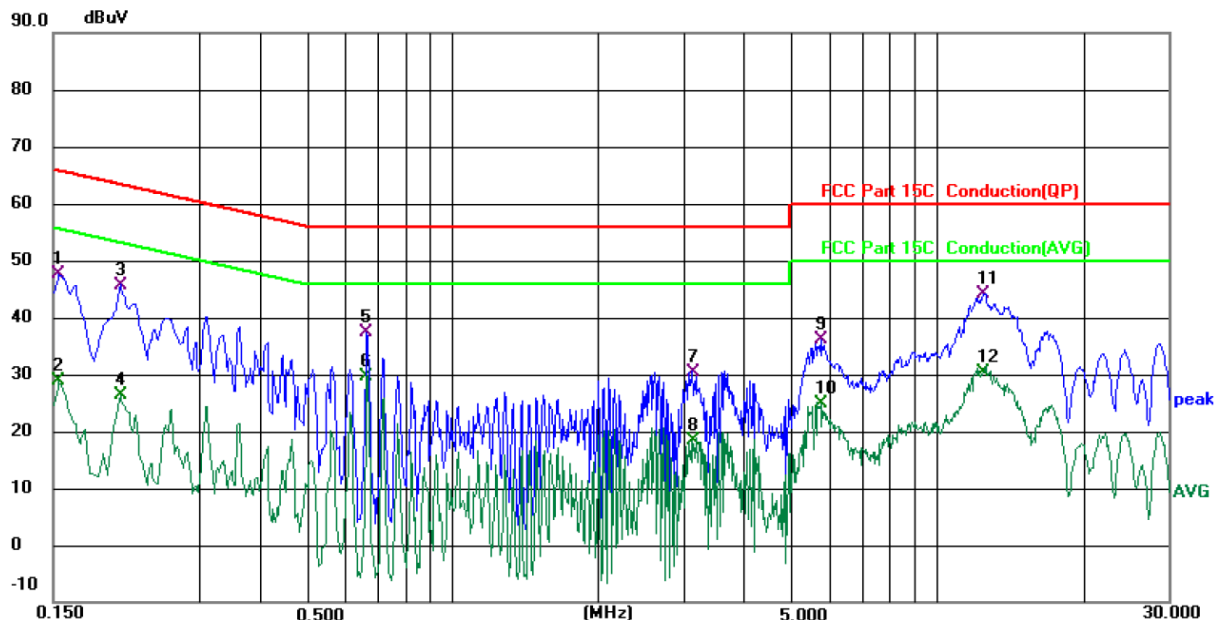
6.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)					
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025	Jun. 25, 2026
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 21, 2025	Jan. 20, 2026
Attenuator	N/A	10dB	164080	Jun. 26, 2025	Jun. 25, 2026
Line-5	TCT	CE-05	/	Jun. 26, 2025	Jun. 25, 2026
EMI Test Software	EZ_EMG	EMEC-3A1	1.1.4.2	/	/

6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: **L1**

Temperature: 22.8 (°C)

Humidity: 50 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	39.12	8.55	47.67	65.79	-18.12	QP	
2		0.1539	20.29	8.55	28.84	55.79	-26.95	AVG	
3		0.2060	37.24	8.51	45.75	63.37	-17.62	QP	
4		0.2060	17.84	8.51	26.35	53.37	-27.02	AVG	
5		0.6660	28.80	8.50	37.30	56.00	-18.70	QP	
6		0.6660	21.09	8.50	29.59	46.00	-16.41	AVG	
7		3.1380	21.83	8.67	30.50	56.00	-25.50	QP	
8		3.1380	9.80	8.67	18.47	46.00	-27.53	AVG	
9		5.7660	27.39	8.74	36.13	60.00	-23.87	QP	
10		5.7660	16.06	8.74	24.80	50.00	-25.20	AVG	
11	*	12.4819	35.18	8.91	44.09	60.00	-15.91	QP	
12		12.4819	21.59	8.91	30.50	50.00	-19.50	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

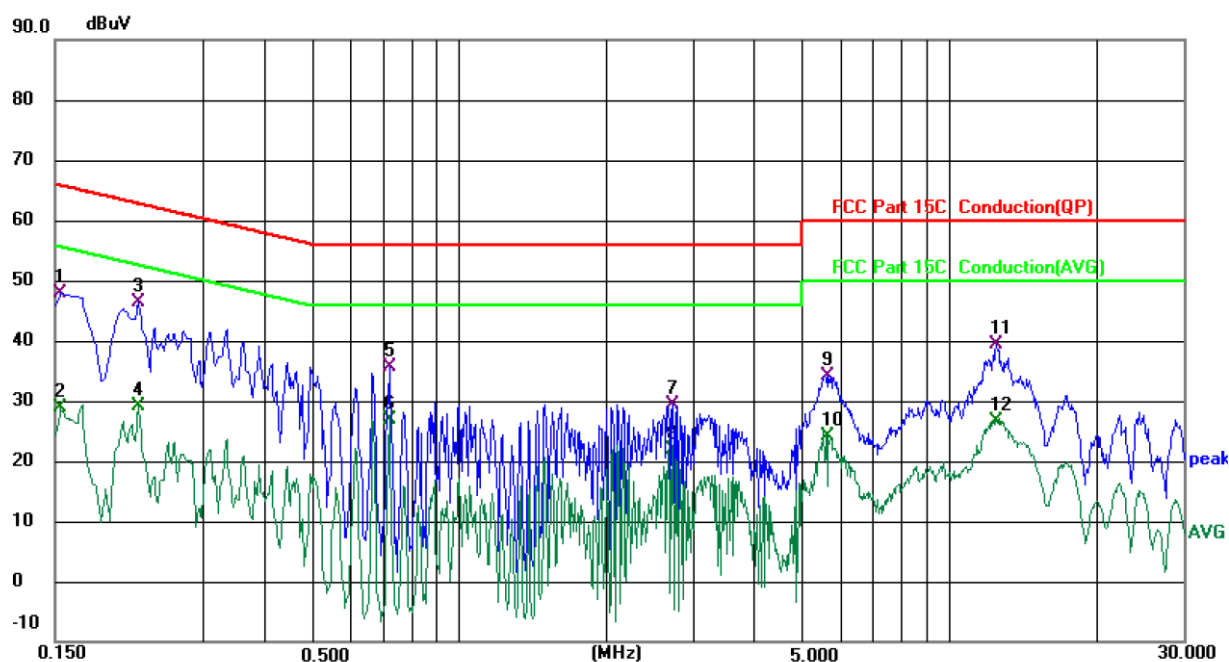
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: **N**

Temperature: 22.8 (°C)

Humidity: 50 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	39.31	8.53	47.84	65.79	-17.95	QP	
2		0.1539	20.26	8.53	28.79	55.79	-27.00	AVG	
3	*	0.2220	37.80	8.52	46.32	62.74	-16.42	QP	
4		0.2220	20.55	8.52	29.07	52.74	-23.67	AVG	
5		0.7219	27.10	8.54	35.64	56.00	-20.36	QP	
6		0.7219	18.30	8.54	26.84	46.00	-19.16	AVG	
7		2.7259	20.84	8.65	29.49	56.00	-26.51	QP	
8		2.7259	13.12	8.65	21.77	46.00	-24.23	AVG	
9		5.6660	25.42	8.75	34.17	60.00	-25.83	QP	
10		5.6660	15.48	8.75	24.23	50.00	-25.77	AVG	
11		12.4580	30.40	8.97	39.37	60.00	-20.63	QP	
12		12.4580	17.66	8.97	26.63	50.00	-23.37	AVG	

Note1:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

6.3. Radiated Emission Measurement

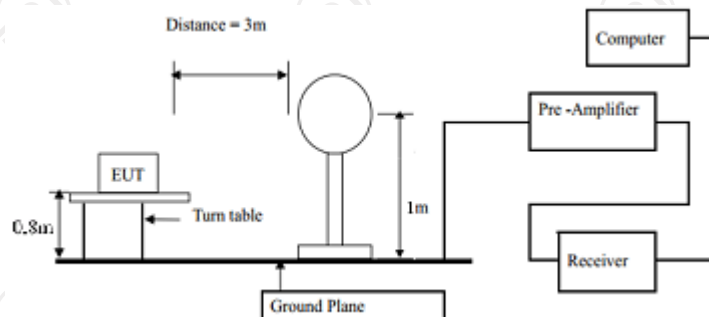
6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2020				
Frequency Range:	9 kHz to 25 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit(Field strength of the fundamental signal):	Frequency		Limit (dBuV/m @3m)		Remark
	2400MHz-2483.5MHz		94.00		Average Value
			114.00		Peak Value
Limit(Spurious Emissions):	Frequency		Limit (dBuV/m @3m)		Remark
	0.009-0.490		2400/F(KHz)		Quasi-peak Value
	0.490-1.705		24000/F(KHz)		Quasi-peak Value
	1.705-30		30		Quasi-peak Value
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		54.0		Average Value
74.0			Peak Value		
Limit (band edge):	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.				
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.				

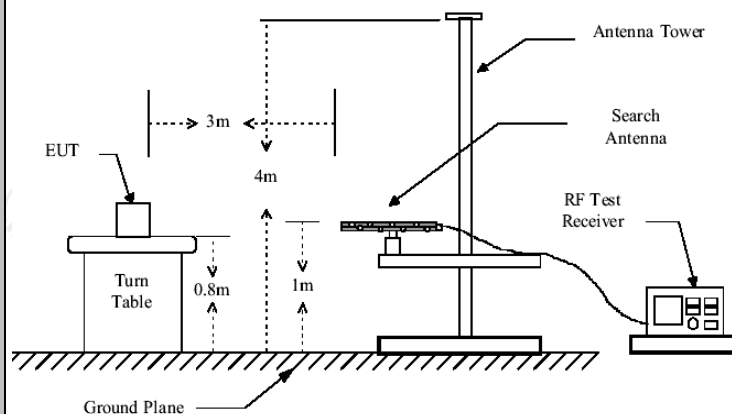
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test setup:

For radiated emissions below 30MHz

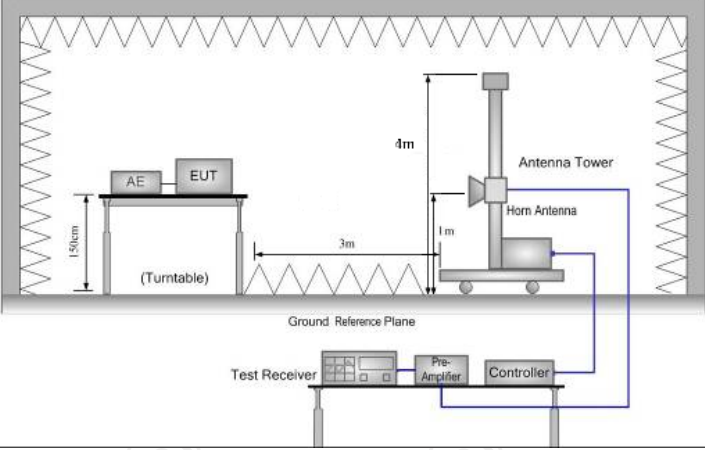


30MHz to 1GHz



Above 1GHz

(The diagram below shows the test setup that is utilized to make the measurements for emission from 1GHz to the tenth harmonic of the highest fundamental frequency or to 40GHz emissions, whichever is lower.)

	
Test results:	PASS

6.3.2. Test Instruments

Radiated Emission Test Site (966)					
Equipment	Manufacturer	Model	Serial Number	Date of Cal.	Due Date
EMI Test Receiver	R&S	ESCI7	100529	Jan. 21, 2025	Jan. 20, 2026
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025	Jun. 25, 2026
Pre-amplifier	SKET	LNPA_0118G-45	SK2021012102	Jan. 21, 2025	Jan. 20, 2026
Pre-amplifier	SKET	LNPA_1840G-50	SK202109203500	Apr. 11, 2025	Apr. 10, 2026
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025	Jun. 25, 2026
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 30, 2025	Jun. 29, 2026
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 29, 2025	Jun. 28, 2026
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 29, 2025	Jun. 28, 2026
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 24, 2025	Jan. 23, 2026
Coaxial cable	SKET	RE-03-D	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-03-M	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-03-L	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-04-D	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-04-M	/	Jun. 27, 2025	Jun. 26, 2026
Coaxial cable	SKET	RE-04-L	/	Jun. 27, 2025	Jun. 26, 2026
Antenna Mast	Keleto	RE-AM	/	/	/
EMI Test Software	EZ EMC	FA-03A2 RE+	1.1.4.2	/	/

6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
2403	92.45	H	114	-21.55
2403	86.80	V	114	-27.20
2441	92.31	H	114	-21.69
2441	86.62	V	114	-27.38
2480	92.48	H	114	-21.52
2480	86.78	V	114	-27.22

Frequency (MHz)	Emission AV (dBuV/m)	Horizontal /Vertical	Limits AV (dBuV/m)	Margin (dB)
2403	91.26	H	94	-2.74
2403	85.64	V	94	-8.36
2441	91.22	H	94	-2.78
2441	85.57	V	94	-8.43
2480	91.16	H	94	-2.84
2480	85.57	V	94	-8.43

Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
--	--	--
--	--	--
--	--	--
--	--	--

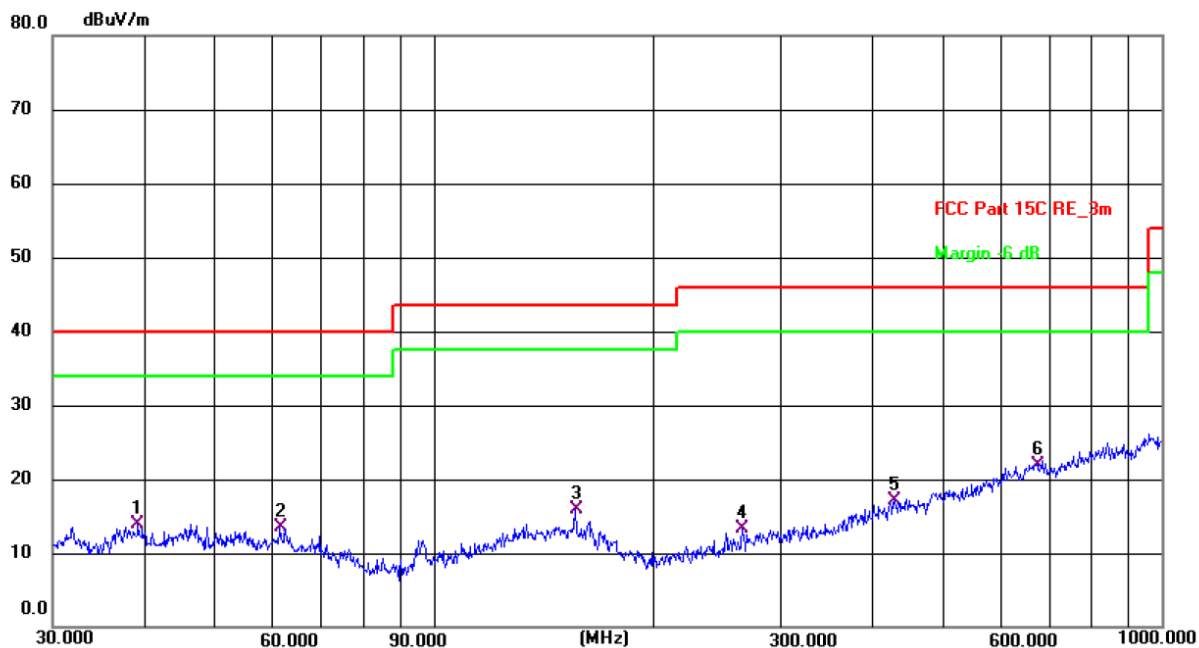
Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

3. For fundamental frequency, RBW >20dB BW, VBW>=RBW, PK detector is for PK value, RMS detector is for AV value.

Frequency Range (30MHz-1GHz)

Horizontal:



Site 3m Anechoic Chamber2

Polarization: **Horizontal**

Temperature: 23.6(C)

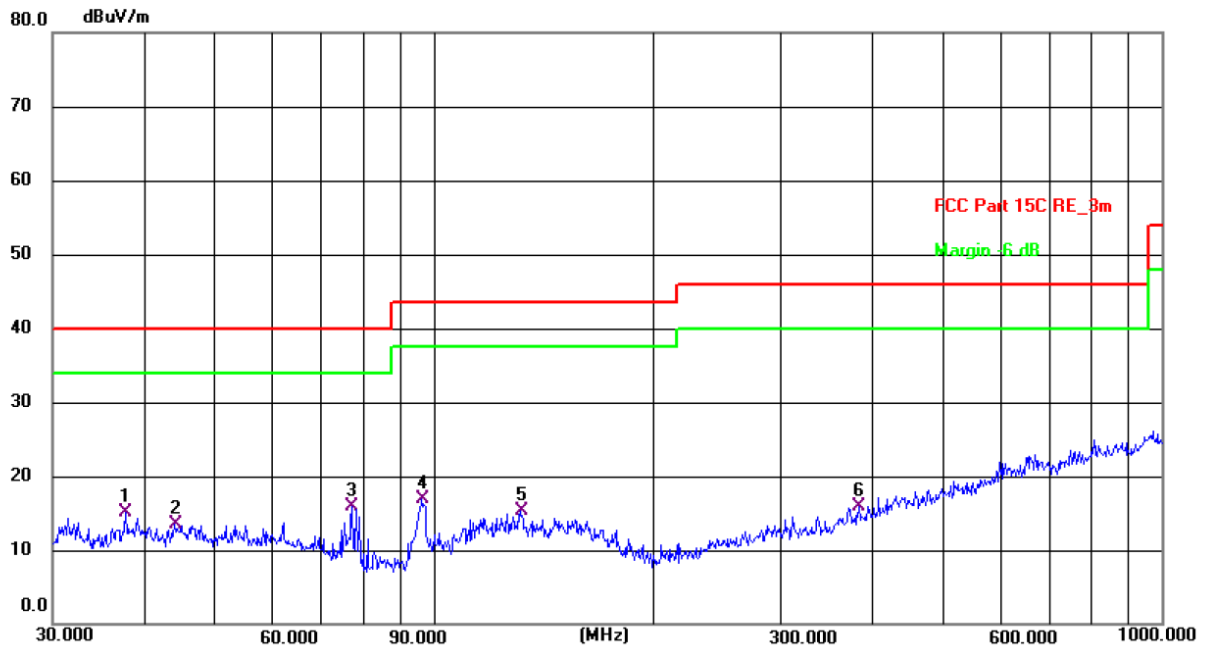
Humidity: 47 %

Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	39.2991	32.37	-18.54	13.83	40.00	-26.17	QP	P	
2	61.5618	32.45	-19.01	13.44	40.00	-26.56	QP	P	
3	156.4577	32.90	-16.91	15.99	43.50	-27.51	QP	P	
4	265.6757	32.14	-18.76	13.38	46.00	-32.62	QP	P	
5	429.5228	31.12	-14.07	17.05	46.00	-28.95	QP	P	
6 *	672.8444	30.24	-8.33	21.91	46.00	-24.09	QP	P	

Vertical:



Site 3m Anechoic Chamber2

Polarization: **Vertical**

Temperature: 23.6(C) Humidity: 47 %

Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	37.8121	33.83	-18.81	15.02	40.00	-24.98	QP	P	
2	44.1202	32.09	-18.61	13.48	40.00	-26.52	QP	P	
3 *	77.3210	37.33	-21.49	15.84	40.00	-24.16	QP	P	
4	96.4361	38.66	-21.78	16.88	43.50	-26.62	QP	P	
5	131.7577	33.50	-18.28	15.22	43.50	-28.28	QP	P	
6	383.9318	31.39	-15.43	15.96	46.00	-30.04	QP	P	

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (Lowest channel) was submitted only.

Above 1GHz

Low channel: 2402MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4804	H	56.45	---	-9.51	46.94	---	74	54	-7.06
7206	H	46.09	---	-1.41	44.68	---	74	54	-9.32
---	---	---	---	---	---	---	---	---	---
4804	V	56.22	---	-9.51	46.71	---	74	54	-7.29
7206	V	47.47	---	-1.41	46.06	---	74	54	-7.94
---	---	---	---	---	---	---	---	---	---

Middle channel: 2440MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4880	H	55.64	---	-9.36	46.28	---	74	54	-7.72
7320	H	46.50	---	-1.15	45.35	---	74	54	-8.65
---	---	---	---	---	---	---	---	---	---
4880	V	57.24	---	-9.36	47.88	---	74	54	-6.12
7320	V	47.61	---	-1.15	46.46	---	74	54	-7.54
---	---	---	---	---	---	---	---	---	---

High channel: 2480MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4960	H	57.22	---	-9.20	48.02	---	74	54	-5.98
7440	H	46.98	---	-0.96	46.02	---	74	54	-7.98
---	---	---	---	---	---	---	---	---	---
4960	V	56.35	---	-9.20	47.15	---	74	54	-6.85
7440	V	45.77	---	-0.96	44.81	---	74	54	-9.19
---	---	---	---	---	---	---	---	---	---

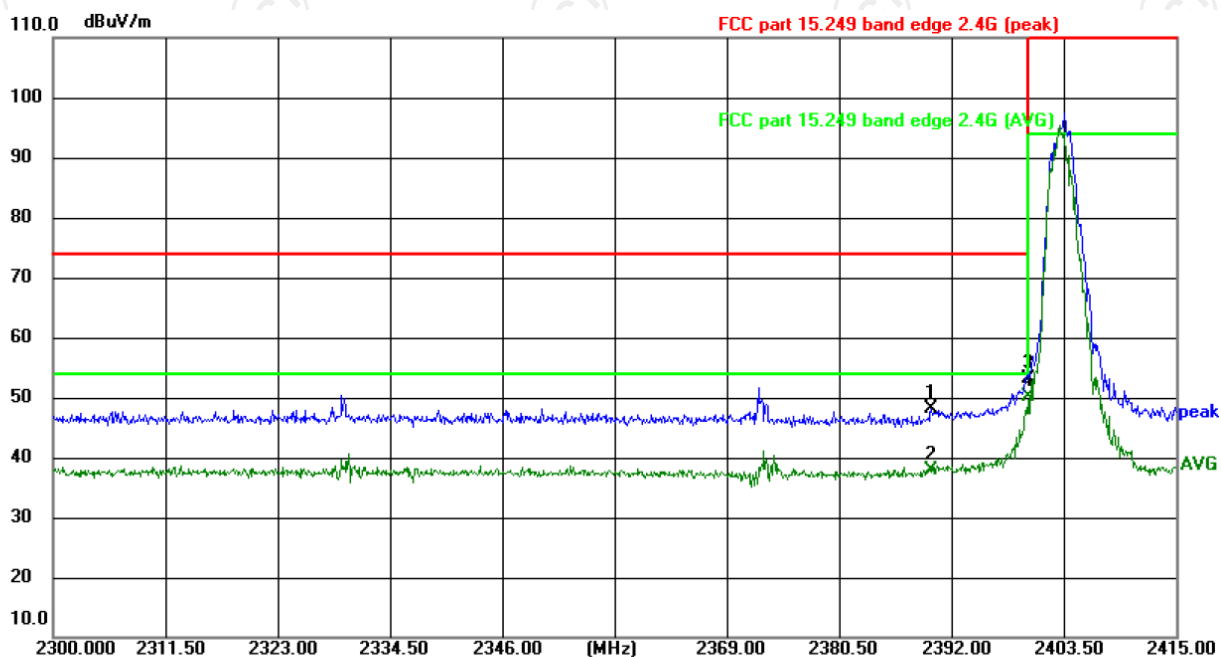
Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.
6. All the restriction bands are compliance with the limit of 15.209.

Band Edge Requirement

Lowest channel 2403:

Horizontal:



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

Temperature: 22.3(°C)

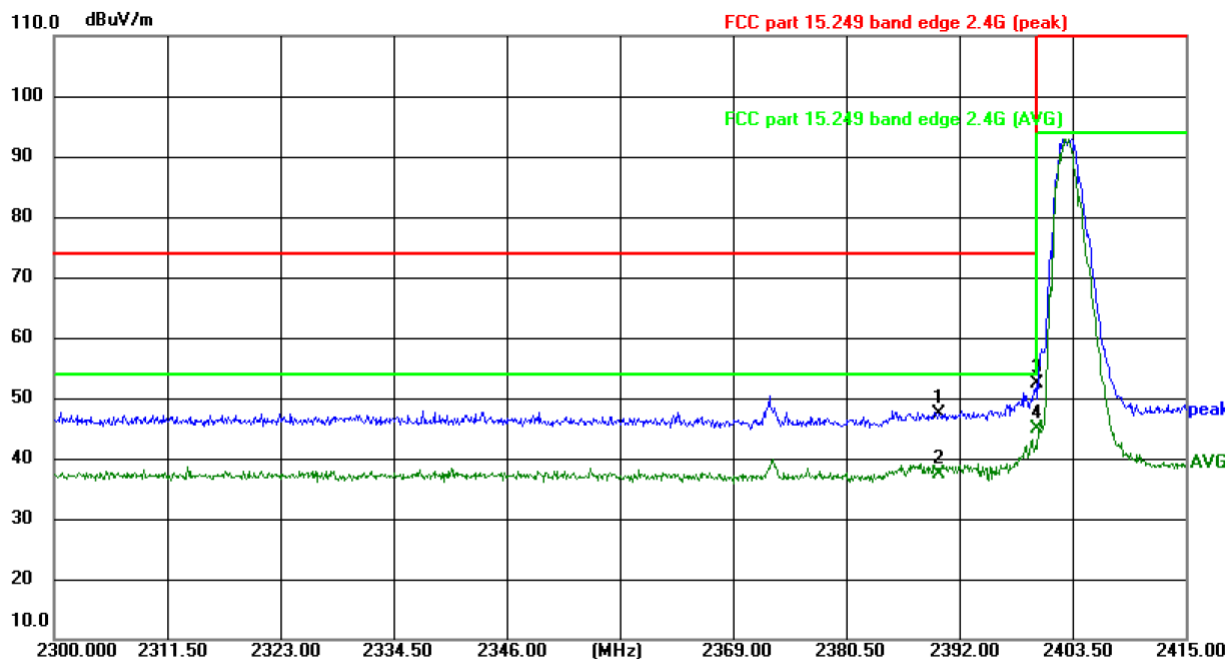
Humidity: 44 %

Limit: FCC part 15.249 band edge 2.4G (peak)

Power:DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	92.19	-44.16	48.03	74.00	-25.97	peak	P	
2	2390.000	82.00	-44.16	37.84	54.00	-16.16	AVG	P	
3	2400.000	97.24	-44.15	53.09	74.00	-20.91	peak	P	
4 *	2400.000	94.28	-44.15	50.13	54.00	-3.87	AVG	P	

Vertical:



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 22.3(°C)

Humidity: 44 %

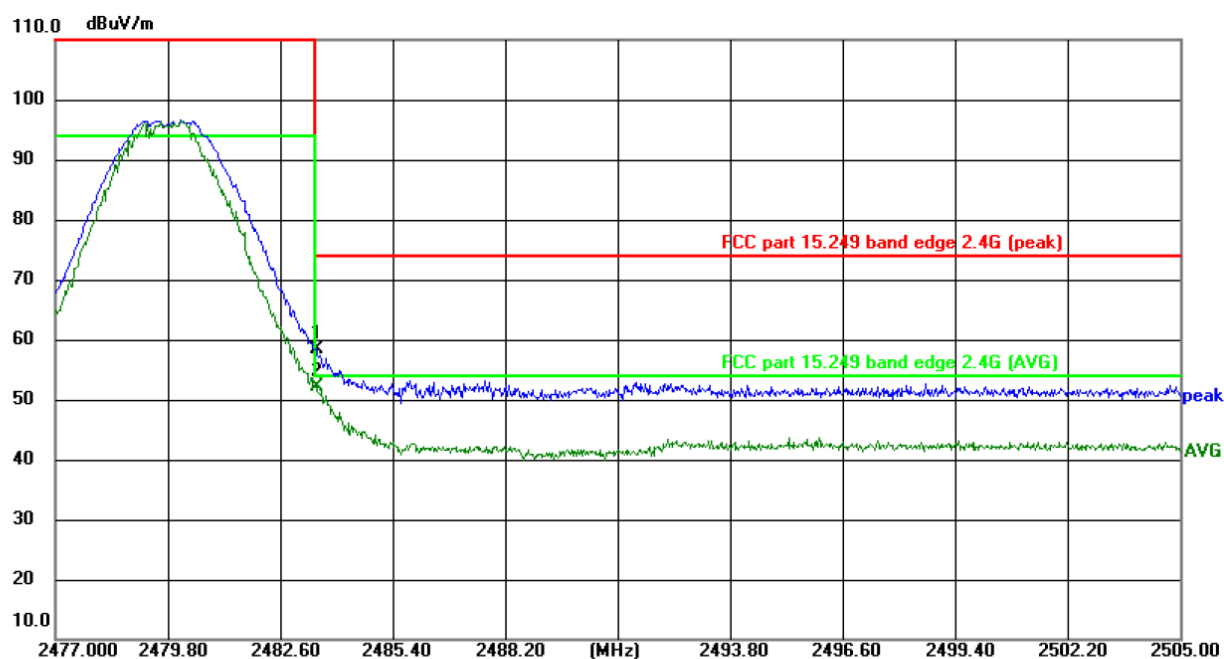
Limit: FCC part 15.249 band edge 2.4G (peak)

Power:DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2390.000	91.55	-44.16	47.39	74.00	-26.61	peak	P	
2	2390.000	81.66	-44.16	37.50	54.00	-16.50	AVG	P	
3	2400.000	96.52	-44.15	52.37	74.00	-21.63	peak	P	
4 *	2400.000	89.04	-44.15	44.89	54.00	-9.11	AVG	P	

Highest channel 2480:

Horizontal:



Site: 3m Anechoic Chamber

Polarization: **Horizontal**

Temperature: 22.3(°C)

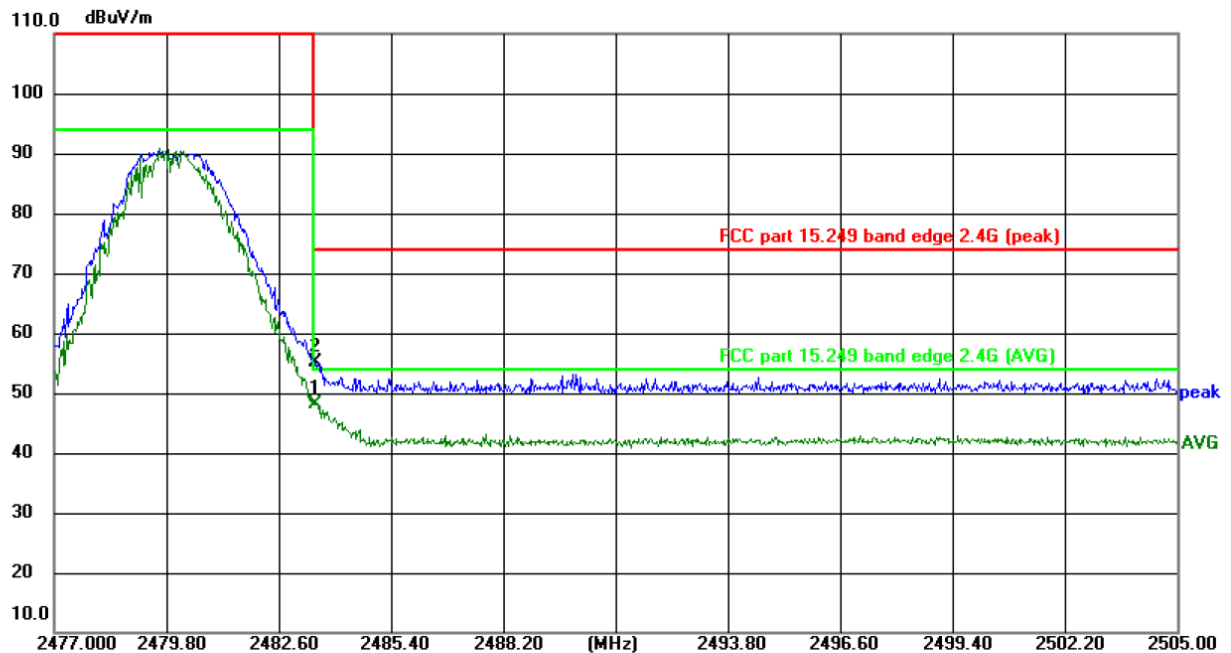
Humidity: 44 %

Limit: FCC part 15.249 band edge 2.4G (peak)

Power:DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.500	102.55	-44.07	58.48	74.00	-15.52	peak	P	
2 *	2483.500	96.12	-44.07	52.05	54.00	-1.95	AVG	P	

Vertical:



Site: 3m Anechoic Chamber

Polarization: **Vertical**

Temperature: 22.3(°C)

Humidity: 44 %

Limit: FCC part 15.249 band edge 2.4G (peak)

Power:DC 3.7 V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	2483.485	92.31	-44.07	48.24	94.00	-45.76	AVG	P	
2 *	2483.500	99.27	-44.07	55.20	74.00	-18.80	peak	P	

6.4. 20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.10:2020
Limit:	N/A
	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW$\geq$1% of the 20 dB bandwidth; VBW$\geq$RBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	 The diagram illustrates the test setup. On the left is a green Spectrum Analyzer with a blue screen and two red dots representing ports. A black cable connects one of these ports to a yellow rectangular box on the right, which is labeled 'EUT'.
Test Mode:	Transmitting mode with modulation
Test results:	PASS

6.4.2. Test Instruments

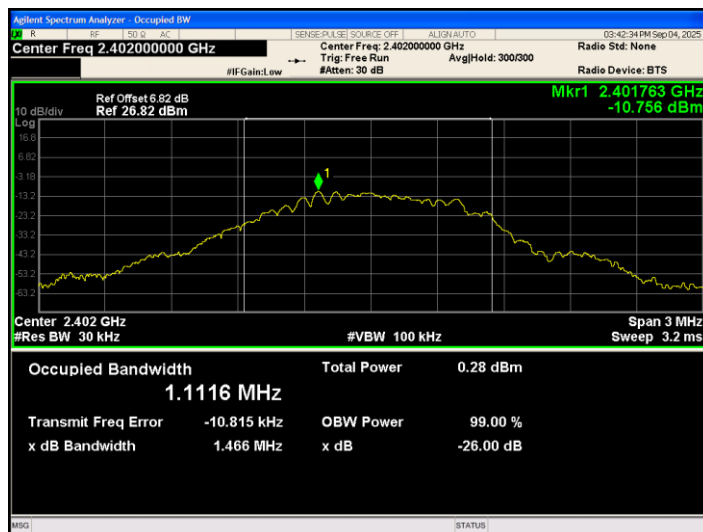
Equipment	Manufacturer	Model No.	Serial Number	Date of Cal.	Due Date
Spectrum Analyzer	Agilent	N9020A	MY49100619	Jun. 26, 2025	Jun. 25, 2026

6.4.3. Test data

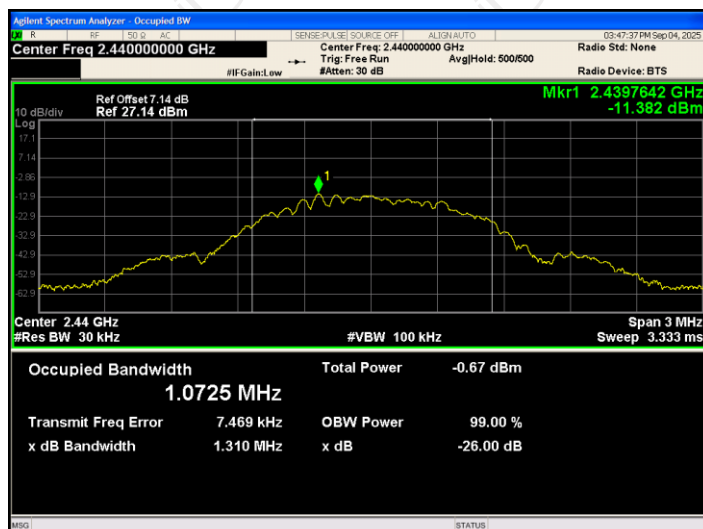
Test Channel	20dB Occupy Bandwidth (MHz)	Limit	Conclusion
Lowest	1.466	---	PASS
Middle	1.310	---	PASS
Highest	1.294	---	PASS

Test plots as follows:

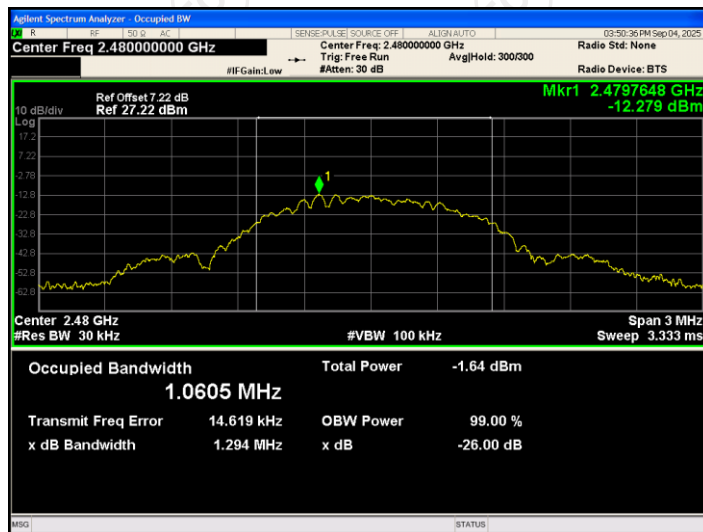
Lowest channel



Middle channel



Highest channel



Appendix A: Photographs of Test Setup

Please refer to document Appendix No.: TCT250829E020-A

Appendix B: Photographs of EUT

Please refer to document Appendix No.: TCT250829E020-B & TCT250829E020-C

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