

TESTING CENTRE TEC	TEST REPOR	T				
FCC ID::	2BFEP-DBCAM8					
Test Report No::	TCT250207E036					
Date of issue::	Feb. 14, 2025					
Testing laboratory:	SHENZHEN TONGCE TESTING	G 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::	CONVERGE BEAUTY LIMITED					
Address::	FLAT/RM C 22/F FORD GLORY PLAZA 37 WING HONG STREET LAI CHI KOK KOWLOON HONG KONG, China					
Manufacturer's name:	CONVERGE BEAUTY LIMITED					
Address:	FLAT/RM C 22/F FORD GLORY PLAZA 37 WING HONG STREET LAI CHI KOK KOWLOON HONG KONG, China					
Standard(s)::	FCC CFR Title 47 Part 15 Subpa	art C Section 15.231				
Product Name::	Doorbell Camera	(0)	(0)			
Trade Mark:	N/A					
Model/Type reference:	G50B, G20, G30, G60, G70, G8 T60, T70, T80, T90, P60, P70, F		80, M90,			
Rating(s)::	Rechargeable Li-ion Battery DC	3.7V				
Date of receipt of test item:	Feb. 07, 2025	(C)				
Date (s) of performance of test:	Feb. 07, 2025 ~ Feb. 14, 2025					
Tested by (+signature) :	: Yannie ZHONG					
Check by (+signature):	Beryl ZHAO	Boyl A TOT	STING			
Approved by (+signature):	Tomsin	Toms it's st				

General disclaimer:

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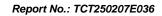




Table of Contents

1.	General Pro	duct Info	rmation .	(A).				3
	1.1. EUT desc	ription		(0)		(0)		3
	1.2. Model(s)	list						3
2.	Test Result	Summary	y				(6)	4
3.	General Info	ormation.						5
	3.1. Test Envi	ronment ar	nd Mode					5
	3.2. Description	on of Supp	ort Units	<u>(c)</u>		<u>(c)</u>		6
4.	Facilities an	d Accred	litations					7
	4.1. Facilities							7
	4.2. Location		(0)		(0)		(0)	7
	4.3. Measuren	nent Uncer	tainty					7
5.	Test Results	s and Mea	asureme	nt Data .				8
	5.1. Antenna l	Requireme	nt					8
	5.2. Conducte							
	5.3. Radiated							
	5.4. Manually	Activated ⁻	Transmitte	er				23
	5.5. Occupied	Bandwidtl	h					25
Аp	pendix A: Ph	otograph	s of Tes	t Setup				
Ap	pendix B: Ph	otograph	s of EU1					



1. General Product Information

Report No.: TCT250207E036

1.1. EUT description

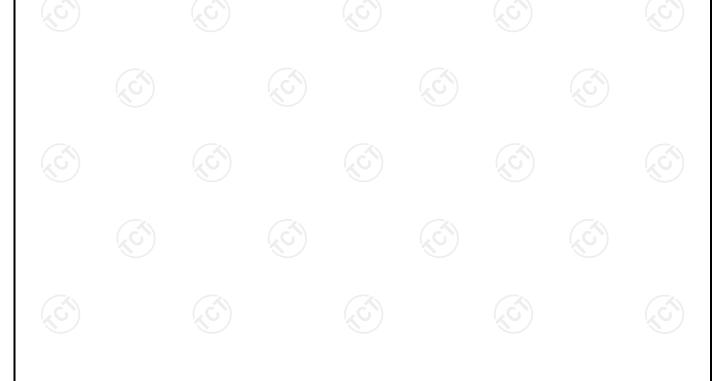
Product Name:	Doorbell Camera		
Model/Type reference:	G50B		
Sample Number:	TCT250207E013-0101		
Operation Frequency:	433.92MHz		
Modulation Technology:	FSK		
Antenna Type:	Spring Antenna	(3)	
Antenna Gain:	0.84dBi		
Rating(s):	Rechargeable Li-ion Battery DC	3.7V	-

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	G50B	\boxtimes
Other models	G20, G30, G60, G70, G80, G90, M60, M70, M80, M90, T60, T70, T80, T90, P60, P70, P90	

Note: G50B is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of G50B can represent the remaining models.



Page 3 of 27

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2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
Conduction Emission, 0.15MHz to 30MHz	§15.207	PASS
Manually Activated Transmitter	§15.231(a)	PASS
Radiation Emission	§15.231(b), §15.205, §15.209, §15.35	PASS
Occupied Bandwidth	§15.231(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:	22.3 °C	22.7 °C			
Humidity:	47 % RH	53 % RH			
Atmospheric Pressure:	1010 mbar	1010 mbar			
Test Mode:					
Operation mode:	Keep the EUT in continuous transmitting with modulation				

The sample was placed (0.8m below 1GHz, 1.5m 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 (Y axis) are shown in Test Results of the following pages.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Y	Z
Field Strength(dBuV/m)	52.47	55.31	52.59

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup": Y axis (see the test setup photo)

Page 5 of 27

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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	ETA0U82CBC	RT10206CS/AE	/	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.

• IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

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

4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended 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	± 1.08 dB
3	Spurious emissions, conducted	± 2.94 dB
4	Occupied Bandwidth	± 0.25 KHz
5	All emissions, radiated(<1 GHz)	± 4.56 dB
6	All emissions, radiated(1 GHz - 18 GHz)	± 4.22 dB
7	All emissions, radiated(18 GHz- 40 GHz)	± 4.36 dB
8	Temperature	± 0.1°C
9	Humidity	± 1.0%

Report No.: TCT250207E036



5. Test Results and Measurement Data

5.1. Antenna Requirement

Standard requirement:

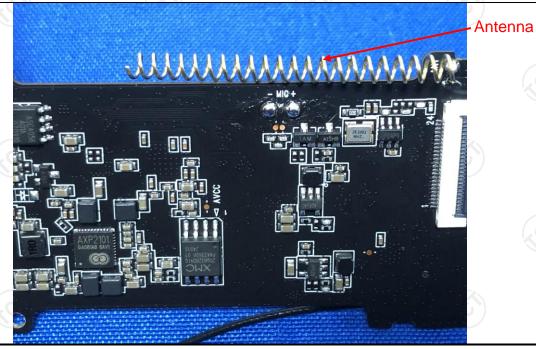
FCC Part15 C Section 15.203

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 antenna is spring antenna which permanently attached, and the best case gain of the antenna is 0.84dBi



Page 8 of 27



5.2. Conducted Emission

5.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.4:2014					
Frequency Range:	150 kHz to 30 MHz	(6')	(c)			
Receiver setup:	RBW=9 kHz, VBW=30	kHz, Sweep time	e=auto			
	Frequency range	Limit (dBuV)			
	(MHz)	Quasi-peak	Average			
Limits:	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	Reference	e Plane	120			
Test Setup:	Remark: E.U.T AC power Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Procedure:	 Charging + Transmitting Mode 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. 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). 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 C63.4:2014 on conducted measurement. 					



5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)								
Equipment	Manufacturer Model Serial Number Calibration							
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025				
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 20, 2026				
Attenuator	N/A	10dB	164080	Jun. 26, 2025				
Line-5	TCT	CE-05	1	Jun. 26, 2025				
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	1 60				



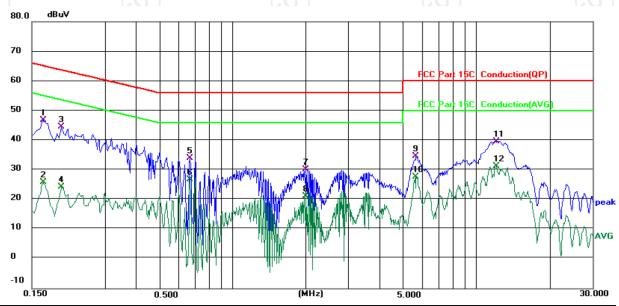


5.2.1. Test data

Report No.: TCT250207E036

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: 22.3 (℃)

Humidity: 47 %

Limit: FCC Part 15C Conduction(QP)

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

			()					
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1 *	0.1660	37.14	9.66	46.80	65.16	-18.36	QP	
2	0.1660	16.19	9.66	25.85	55.16	-29.31	AVG	
3	0.1980	34.86	9.65	44.51	63.69	-19.18	QP	
4	0.1980	14.57	9.65	24.22	53.69	-29.47	AVG	
5	0.6700	23.58	10.36	33.94	56.00	-22.06	QP	
6	0.6700	16.48	10.36	26.84	46.00	-19.16	AVG	
7	2.0059	20.24	9.84	30.08	56.00	-25.92	QP	
8	2.0059	11.22	9.84	21.06	46.00	-24.94	AVG	
9	5.6539	24.36	10.22	34.58	60.00	-25.42	QP	
10	5.6539	17.57	10.22	27.79	50.00	-22.21	AVG	
11	12.1100	29.35	10.30	39.65	60.00	-20.35	QP	
12	12.1100	20.89	10.30	31.19	50.00	-18.81	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

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

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

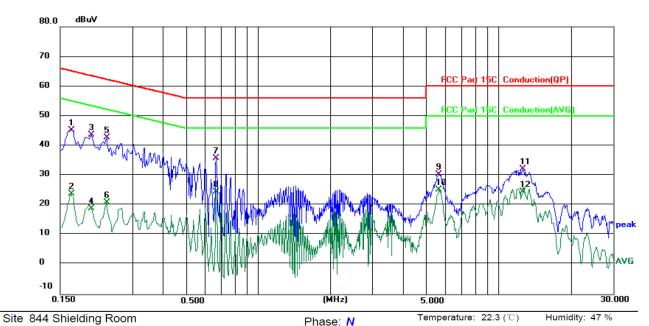
AVG =average

^{*} 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)



Limit: FCC Part 15C Conduction(QP)

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1660	35.70	9.64	45.34	65.16	-19.82	QP	
2		0.1660	14.17	9.64	23.81	55.16	-31.35	AVG	
3		0.2020	34.14	9.63	43.77	63.53	-19.76	QP	
4		0.2020	9.28	9.63	18.91	53.53	-34.62	AVG	
5	*	0.2340	33.18	9.63	42.81	62.31	-19.50	QP	
6		0.2340	11.42	9.63	21.05	52.31	-31.26	AVG	
7		0.6700	25.40	10.33	35.73	56.00	-20.27	QP	
8		0.6700	14.11	10.33	24.44	46.00	-21.56	AVG	
9		5.6539	20.21	10.15	30.36	60.00	-29.64	QP	
10		5.6539	14.98	10.15	25.13	50.00	-24.87	AVG	
11		12.6459	21.85	10.28	32.13	60.00	-27.87	QP	
12		12.6459	14.28	10.28	24.56	50.00	-25.44	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

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

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

 $Limit (dB\mu V) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak

AVG =average

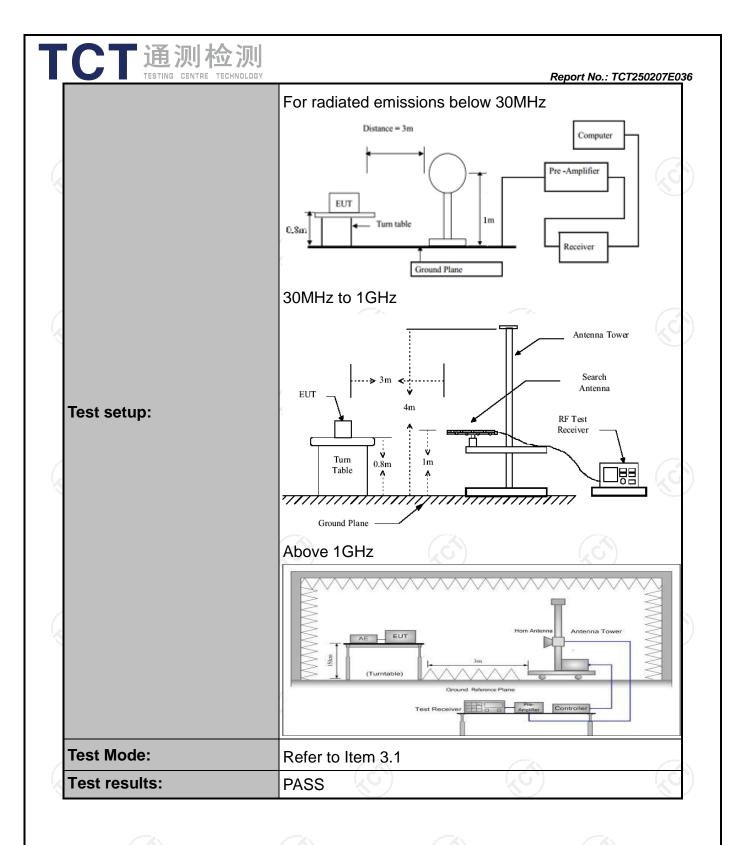
^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



5.3. Radiated Emission Measurement

5.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231(a) and 15.209						
Test Method:	ANSI C63.4:						
Frequency Range:	9 kHz to 5 G	Hz	Ž\				
Measurement Distance:	3 m	16)		(6)		
Antenna Polarization:	Horizontal &	Vertical					
	Frequency	Detector	RBW	VBW	Remark		
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz	Quasi-peak Quasi-peak	200Hz 9kHz	1kHz 30kHz	Quasi-peak Value Quasi-peak Value		
	30MHz-1GHz Above 1GHz	Quasi-peak Peak Peak	120KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Quasi-peak Value Peak Value Average Value		
Test Procedure:	meters a below 10 1GHz. To determine 2. The EU interference on the top 3. The antermeters at value of vertical pethe meas 4. For each seto its work heights from table was find the meas 10 to its work heights from the meas 10 to its w	bove the galactic bove the position of a variation	ground a above was rot on of the et 3 m ag antenible-height is varied ound to a strength a of the a emission of the Emission o	the grotated 36 highest eters a na, which antenna is the EU e antenna is the EUT in perified, the es of the esions the sted one method a	way from the h was mounted		





5.3.2. Limit

Report No.:	TC1250207E036

Fui	ndamental Frequency (MHz)	Filed Strength of Fundamental (microvolts/meter)	Filed Strength of Spurious Emission (microvolts/meter)
	40.66-40.70	2250	225
	70-130	1250	125
	130-174	1250 to 3750*	125 to 375*
	174-260	3750	375
-	260-470	3750 to 12500*	375 to 1250*
9)	Above 470	12500	1250
	Horn Antenna	Schwarzbeck	BBHA 9120D

^{*}Linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-174 MHz, μ V/m at 3 meters = 56.81818(F) - 6136.3636; for the band 260-470 MHz, μ V/m at 3 meters = 41.6667(F) - 7083.3333. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

For EUT

Fundamental Frequency (MHz)	Filed Strength of Fundamental (dBµV/m)	Filed Strength of Spurious Emission(dBµV/m)		
433.92	80.83	60.83		

Note:

- Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions.
- 2.According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.
- 3. According to 15.231(b), The limits on the field strength of the spurious emissions in the above table is based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in Section 15.209, whichever limit permits one higher field strength.



Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dBμV/m)
0.009-0.490	3	20log 2400/F (kHz) + 80
0.490-1.705	3	20log 24000/F (kHz) + 40
1.705-30	3	20log 30 + 40
30-88	3 (6)	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
- 5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula Ld1 = Ld2 * (d2/d1)







5.3.3. Test Instruments

	Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
EMI Test Receiver	R&S	ESCI7	100529	Jan. 20, 2026					
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025					
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025					
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 20, 2026					
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 20, 2026					
Loop antenna	Schwarzbeck	FMZB1519B	00191	Jun. 26, 2025					
Broadband Antenna	Schwarzbeck	VULB9163	340	Jun. 28, 2025					
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Jun. 28, 2025					
Horn Antenna	Schwarzbeck	BBHA 9170	00956	Jan. 22, 2026					
Coaxial cable	SKET	RE-03-D	/	Jun. 26, 2025					
Coaxial cable	SKET	RE-03-M) /	Jun. 26, 2025					
Coaxial cable	SKET	RE-03-L	/	Jun. 26, 2025					
Coaxial cable	SKET	RE-04-D		Jun. 26, 2025					
Coaxial cable	SKET	RE-04-M		Jun. 26, 2025					
Coaxial cable	SKET	RE-04-L	1	Jun. 26, 2025					
Antenna Mast	Keleto	RE-AM) /	(0)					
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2	/					



5.3.4. Test Data

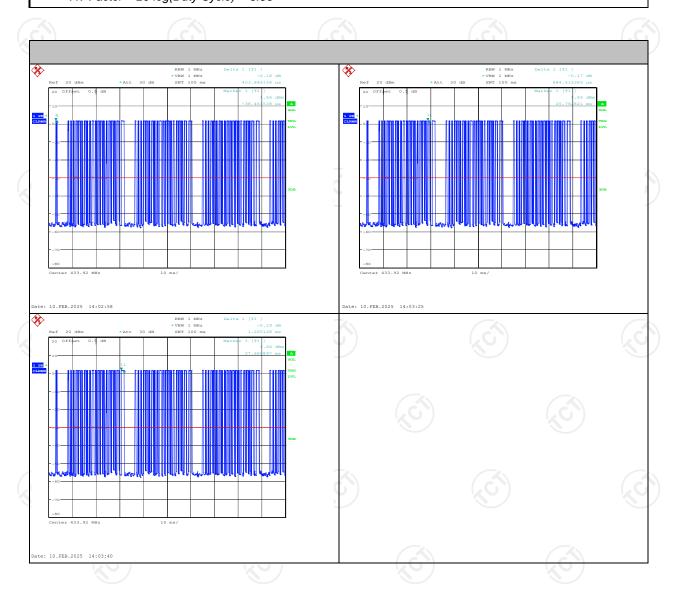
Duty Cycle Test Data

433.92MHz:

Total time (ms)	Effective time (ms)	Duty Cycle	AV Factor(dB)
100	46.51	0.47	-6.56

Note:

Effective time= 0.40*28 + 0.88*36+1.21*3=46.51ms Duty Cycle= Effective time/ Total time=0.47 AV Factor = 20 log(Duty Cycle)= -6.56





Field Strength of Fundamental

Frequency (MHz)	Emission PK (dBuV/m)	Horizontal /Vertical	Limits PK (dBuV/m)	Margin (dB)
433.92	69.11	Н	100.83	-31.72
433.92	68.36	V	100.83	-32.47

Frequency (MHz)	Emission PK (dBuV/m)	AV Factor(dB)	Horizontal /Vertical	Emission AVG (dBuV/m)	Limits AV (dBuV/m)	Margin (dB)
433.92	69.11	-6.56	(C) H	62.55	80.83	-18.28
433.92	68.36	-6.56	V	61.80	80.83	-19.03

Harmonics and Spurious Emissions

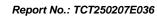
Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)		
(0) ((0)		(C) (C)		
				
	<u>-</u>	7/5		

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

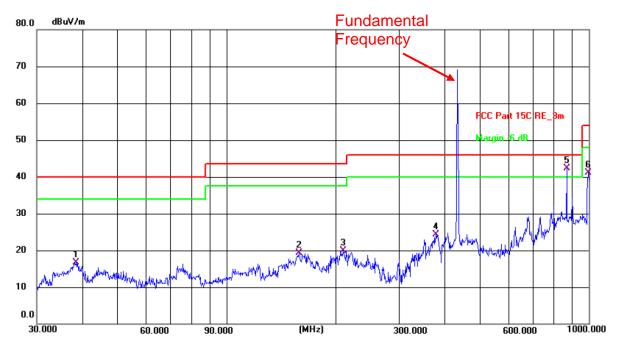
2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Page 19 of 27





Below 1GHz



Site 3m Anechoic Chamber2 Polarization: Horizontal Temperature: 22.7(C) Humidity: 53 %

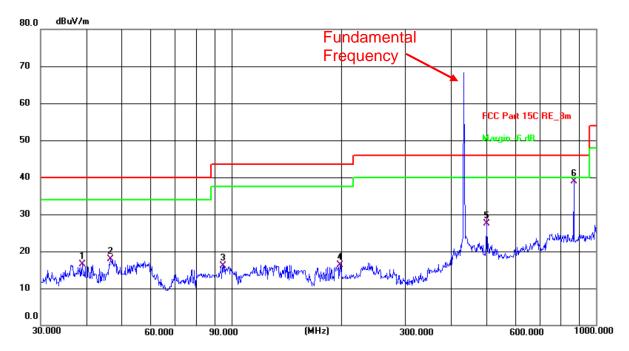
Power: DC 3.7V

Limit: FCC Part 15C RE_3m

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	38.4808	35.44	-18.69	16.75	40.00	-23.25	QP	Р	
2	158.6673	36.45	-17.14	19.31	43.50	-24.19	QP	Р	
3	210.0481	40.83	-20.99	19.84	43.50	-23.66	QP	Р	
4	378.5842	39.91	-15.65	24.26	46.00	-21.74	QP	Р	
5 *	869.1300	48.73	-6.39	42.34	46.00	-3.66	QP	Р	
6	996.4995	45.95	-4.88	41.07	54.00	-12.93	QP	Р	







Site 3m Anechoic Chamber2 Polarization: Vertical Temperature: 22.7(C) Humidity: 53 %

Limit: FCC Part 15C RE_3m Power: DC 3.7V

17											
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark	
	1	39.0242	35.03	-18.58	16.45	40.00	-23.55	QP	Р		
	2	46.6662	36.66	-18.66	18.00	40.00	-22.00	QP	Р		
	3	94.7600	38.23	-22.06	16.17	43.50	-27.33	QP	Р		
	4	198.5877	37.75	-21.49	16.26	43.50	-27.24	QP	Р		
	5	501.1788	39.81	-12.30	27.51	46.00	-18.49	QP	Р		
	6 *	869.1300	45.26	-6.39	38.87	46.00	-7.13	QP	Р		

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Freq. = Emission frequency in MHz

Measurement $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB)$

Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

 $Limit (dB\mu V/m) = Limit stated in standard$

 $Margin (dB) = Measurement (dB\mu V/m) - Limits (dB\mu V/m)$

Any value more than 10dB below limit have not been specifically reported

* is meaning the worst frequency has been tested in the test frequency range second harmonic

3. The limit value of the fundamental frequency is 100.83dBuV/m.





Above 1GHz (PK value)

Frequency PK Value (MHz)	Read Level PK (dBuV)	Correction Factor (dB/m)	Level PK (dBuV/m)	Limit Line PK (dBuV/m)	Over Limit (dB)	Polarization
1301.76	61.75	-18.59	43.16	80.83	-37.67	Vertical
1735.68	52.58	-18.14	34.44	80.83	-46.39	Vertical
2169.60	51.05	-17.61	33.44	80.83	-47.39	Vertical
2603.52	47.70	-16.45	31.25	80.83	-49.58	Vertical
3037.44	47.30	-14.84	32.46	80.83	-48.37	Vertical
3471.36	45.22	-14.17	31.05	80.83	-49.78	Vertical
1301.76	58.87	-18.59	40.28	80.83	-40.55	Horizontal
1735.68	55.51	-18.14	37.37	80.83	-43.46	Horizontal
2169.60	52.88	-17.61	35.27	80.83	-45.56	Horizontal
2603.52	52.75	-16.45	36.30	80.83	-44.53	Horizontal
3037.44	52.93	-14.84	38.09	80.83	-42.74	Horizontal
3471.36	50.03	-14.17	35.86	80.83	-44.97	Horizontal

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (dB μ V/m)- limit (dB μ V/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.





5.4. Manually Activated Transmitter

5.4.1. Test Specification

FCC Part15 C Section 15.231(a)(1)				
ANSI C63.10:2020				
According to 15.231(a), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.				
 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings. RBW = 100KHz, VBW≥RBW; Span = 0; Sweep Time > T(on)+5S; Detector function = peak; Measure and record the results in the test report. 				
Spectrum Analyzer	EUT (S)			
Refer to Item 3.1				
PASS	(6)			
	ANSI C63.10:2020 According to 15.231(a), A many shall employ a switch that will the transmitter within not more released. 1. According to the follow Test position between the artificing 2. Set to the maximum power EUT transmit continuously. 3. Use the following spectrum at RBW = 100KHz, VBW≥RBW Span = 0; Sweep Time > TO Detector function = peak; 4. Measure and record the results. Spectrum Analyzer Refer to Item 3.1			

5.4.2. Test Instruments

	Ri			
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Jun. 26, 2025



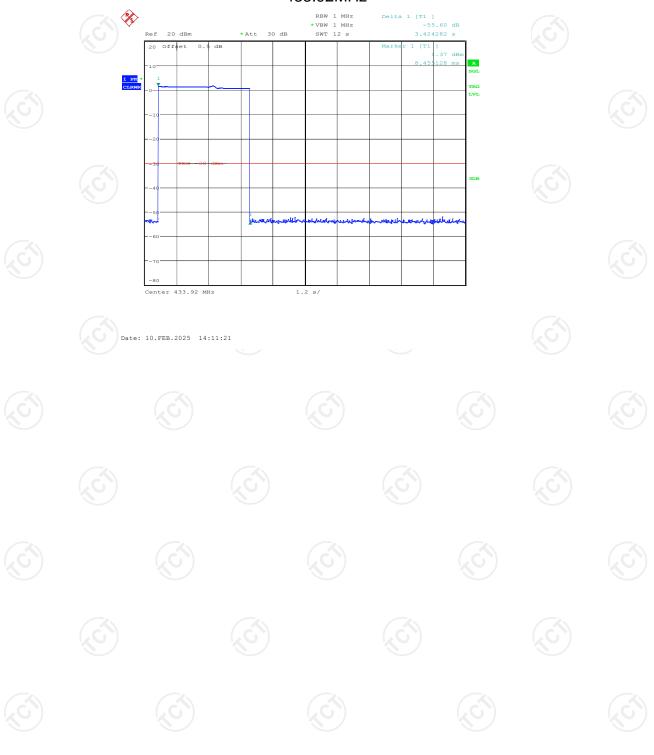
5.4.3. Test data

Report No.: TCT250207E036

Test Channel (MHz)	Manually Activated Transmitter (s)	Limit (s)	Conclusion
433.92	3.42	5	PASS

Test plots as follows:

433.92MHz





5.5. Occupied Bandwidth

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.231C
Test Method:	ANSI C63.10:2020
Limit:	According to 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
Test Procedure:	 According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = 50KHz, centered on a hopping channel RBW = 3KHz; VBW = 10KHz; Sweep = auto Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Test setup:	Spectrum Analyzer EUT
Test Mode:	Refer to Item 3.1
Test results:	PASS

5.5.2. Test Instruments

	RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Jun. 26, 2025	



5.5.3. Test data

Report No.: TCT250207E036

Test Channel (MHz)	20dB Occupy Bandwidth (kHz)	Limit (kHz)	Conclusion	
433.92	8.49	1084.80	PASS	

Note: Limit = 433.92MHz *0.25% = 1084.80 kHz

Test plots as follows:





Appendix A: Photographs of Test Setup

Please refer to document Appendix No.: TCT250207E013-A

Appendix B: Photographs of EUT

Please refer to document Appendix No.: TCT250207E013-B & TCT250207E013-C

