

	TEST REPORT
FCC ID:	2AQRM-A671
Test Report No::	TCT241216E023
Date of issue::	Jan. 10, 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::	FOXX Development Inc.
Address::	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
Manufacturer's name:	FOXX Development Inc.
Address::	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
Standard(s)::	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2020
Product Name::	Smart Phone
Trade Mark::	FOXXD, FOXX, MIRO
Model/Type reference:	A671
Rating(s)::	Rechargeable Li-ion Battery DC 3.8V Power Adapter: Model: WS-D01605010050 Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1.0A, 5W
Date of receipt of test item:	Dec. 16, 2024
Date (s) of performance of test:	Dec. 16, 2024 ~ Jan. 09, 2025
Tested by (+signature) :	Aaron MO
Check by (+signature):	Beryl ZHAO Bod 10 TCT
Approved by (+signature):	Tomsin Jones in 183 84

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name:	Smart Phone		
Model/Type reference:	A671		
Sample Number:	TCT241216E022-0101	<i>_</i> 2.	
Bluetooth Version:	V5.0 (This report is for BLE)		
Operation Frequency:	2402MHz~2480MHz		
Channel Separation:	2MHz		(c)
Data Rate:	LE 1M PHY		
Number of Channel:	40		
Modulation Type:	GFSK		
Antenna Type:	PIFA Antenna		
Antenna Gain:	0.23dBi		(0)
Rating(s)::	Rechargeable Li-ion Battery DC 3.8V Power Adapter: Model: WS-D01605010050 Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1.0A, 5W		

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

None.

1.3. Operation Frequency

							A - /			
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency			
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz			
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz			
D)	🔨	D		<u> </u>				
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz			
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz			
Remark:	Remark: Channel 0, 19 & 39 have been tested.									



2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	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:	23.8 °C	24.1 °C					
Humidity:	46 % RH	48 % RH					
Atmospheric Pressure:	1010 mbar	1010 mbar					
Test Software:							
Software Information:	Engineering mode						
Power Level:	Default						
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
9 1	(6)			1

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.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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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	± 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



5. Test Results and Measurement Data

5.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

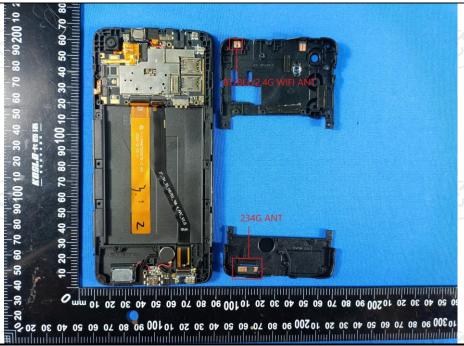
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The Bluetooth antenna is PIFA antenna which permanently attached, and the best case gain of the antenna is 0.23dBi.







5.2. Conducted Emission

5.2.1. 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	e=auto						
Limits:	Frequency range Limit (dBuV) (MHz) 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 LISN Filter AC power Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m								
Test Mode:	Charging + Transmitting	g Mode							
Test Procedure:	 The E.U.T is connected to an adapter 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 C63.10:2020 on conducted measurement. 								
Test Result:	PASS								



5.2.2. Test Instruments

Conducted Emission Shielding Room Test Site (843)									
Equipment	Manufacturer	Model	Serial Number	Calibration Due					
EMI Test Receiver	R&S	ESCI3	100898	Jun. 26, 2025					
LISN	Schwarzbeck	NSLK 8126	8126453	Jan. 31, 2025					
Attenuator	N/A	10dB	164080	Jun. 26, 2025					
Line-5	TCT	CE-05	/	Jun. 26, 2025					
EMI Test Software	EZ_EMC	EMEC-3A1	1.1.4.2	1 6					

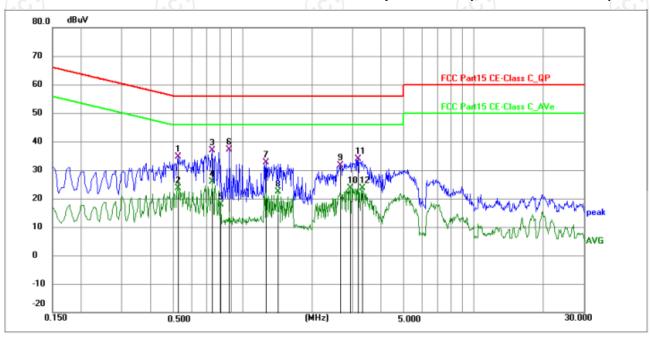




5.2.3. Test data

Please refer to following diagram for individual

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



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.5231	24.07	10.59	34.66	56.00	-21.34	QP	Р	
2	0.5231	13.13	10.59	23.72	46.00	-22.28	AVG	Р	
3	0.7350	26.21	10.69	36.90	56.00	-19.10	QP	Р	
4	0.7350	15.13	10.69	25.82	46.00	-20.18	AVG	Р	
5	0.8070	7.10	10.69	17.79	46.00	-28.21	AVG	Р	
6 *	0.8790	26.39	10.68	37.07	56.00	-18.93	QP	Р	
7	1.2660	21.85	10.66	32.51	56.00	-23.49	QP	Р	
8	1.4190	11.61	10.66	22.27	46.00	-23.73	AVG	Р	
9	2.6610	20.85	10.67	31.52	56.00	-24.48	QP	Р	
10	2.9400	12.87	10.68	23.55	46.00	-22.45	AVG	Р	
11	3.1695	23.30	10.66	33.96	56.00	-22.04	QP	Р	
12	3.2955	12.92	10.65	23.57	46.00	-22.43	AVG	Р	

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

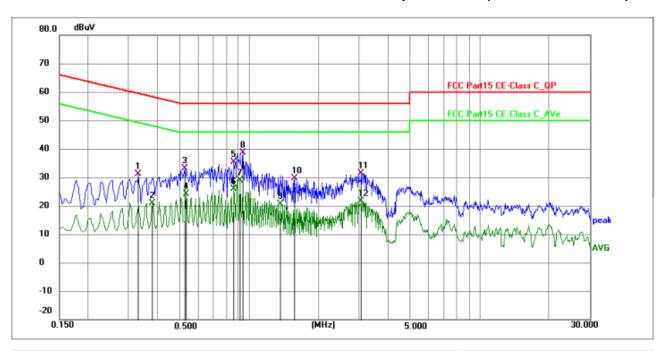
AVG =average

^{*} 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)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.3300	20.47	10.57	31.04	59.45	-28.41	QP	Р	
2	0.3790	10.21	10.57	20.78	48.30	-27.52	AVG	Р	
3	0.5231	22.64	10.59	33.23	56.00	-22.77	QP	Р	
4	0.5322	13.42	10.60	24.02	46.00	-21.98	AVG	Р	
5	0.8610	24.58	10.68	35.26	56.00	-20.74	QP	Р	
6	0.8610	15.29	10.68	25.97	46.00	-20.03	AVG	Р	
7 *	0.9150	18.14	10.67	28.81	46.00	-17.19	AVG	Р	
8	0.9420	28.07	10.67	38.74	56.00	-17.26	QP	Р	
9	1.3691	9.99	10.66	20.65	46.00	-25.35	AVG	Р	
10	1.5720	19.06	10.66	29.72	56.00	-26.28	QP	Р	
11	3.0660	20.78	10.67	31.45	56.00	-24.55	QP	Р	
12	3.0660	10.85	10.67	21.52	46.00	-24.48	AVG	Р	

Note1:

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.

Note2: Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.

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5.3. Conducted Output Power

5.3.1. Test Specification

A) / A)							
Test Requirement:	FCC Part15 C Section 15.247 (b)(3)						
Test Method:	KDB 558074 D01 v05r02						
Limit:	30dBm						
Test Setup:	Spectrum Analyzer EUT						
Test Mode:	Refer to item 3.1						
Test Procedure:	Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. 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.						
Test Result:	PASS						

5.3.2. Test Instruments

Name	Name Manufacturer Model No. Serial Num		Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	/	/	1





5.4. Emission Bandwidth

5.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 3.1
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

5.4.2. Test Instruments

Name	Manufacturer	facturer Model No. Serial Number		Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025	
Test Software	TST Pass	/		(0)	





5.5. Power Spectral Density

5.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)						
Test Method:	KDB 558074 D01 v05r02						
Limit:	The peak power spectral density shall not be great than 8dBm in any 3kHz band at any time interval continuous transmission.						
Гest Setup:	Spectrum Analyzer EUT						
Test Mode:	Refer to item 3.1						
Гest Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 						
Test Result:	PASS						

5.5.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	1	/	/





5.6. Conducted Band Edge and Spurious Emission Measurement

5.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dE 30dB relative to the maximum PSD level in 100 kHz to RF conducted measurement and radiated emission which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Refer to item 3.1					
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 					
Test Result:	PASS					

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5.6.2. Test Instruments

Name	Manufacturer	Model No.	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY50101018	Jun. 26, 2025
Test Software	TST Pass	1	/	1





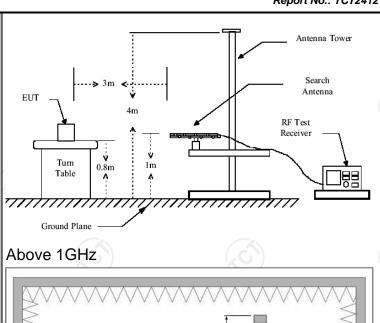
5.7. Radiated Spurious Emission Measurement

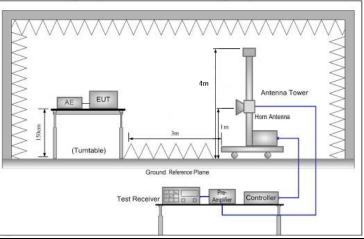
5.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.10	0:2020								
Frequency Range:	9 kHz to 25 GHz									
Measurement Distance:	3 m									
Antenna Polarization:	Horizontal & Vertical									
Operation mode:	Refer to item 3.1									
	Frequency 9kHz- 150kHz	Detector Quasi-pea		RBW 00Hz	VBW 1kHz		Remark uasi-peak			
Receiver Setup:	150kHz- 30MHz	Quasi-pea			30kHz	Q	Value uasi-peak			
Treceiver Setup.	30MHz-1GHz	Quasi-pea	nk 12	.0KHz	300KHz	Q	Value uasi-peak Value			
	Above 1GHz	Peak		MHz	3MHz		eak Value			
		Peak	1	MHz	10Hz	Ave	erage Value			
	Frequer		Field Strength (microvolts/meter)		/meter)	Measurement Distance (meters)				
	0.009-0.4		2400/F(KHz)		300					
	0.490-1.		24000/F(KHz)		30					
	1.705-3 30-88		30 100		30					
	88-21	1	150		3					
Limit:	216-96		200				3			
	Above 9		500				3			
	Frequency Above 1GHz	(micr	Field Strength icrovolts/meter) Measure Distar (mete 500 3 5000 3			се	Detector Average Peak			
Test setup:	For radiated	Turn table	ns bel	ow 30	Pre-	Compu	iter Co			

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1. For the radiated emission test below 1GHz:

Test Procedure:

The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance. while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final





Test results:	PASS
Test mode:	Refer to section 3.1 for details
Tost mode:	emission being measured; (2) Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f >1 GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
	lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the
	measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB





5.7.2. Test Instruments

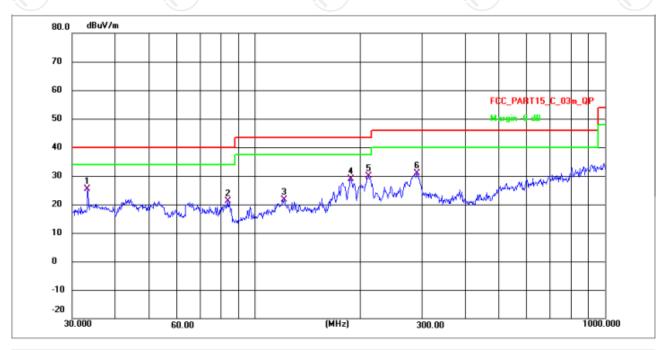
Radiated Emission Test Site (966)								
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due				
EMI Test Receiver	R&S	ESCI7	100529	Jan. 31, 2025				
Spectrum Analyzer	R&S	FSQ40	200061	Jun. 26, 2025				
Pre-amplifier	SKET	LNPA_0118G- 45	SK2021012 102	Jan. 31, 2025				
Pre-amplifier	SKET	LNPA_1840G- 50	SK2021092 03500	Jan. 31, 2025				
Pre-amplifier	HP	8447D	2727A05017	Jun. 26, 2025				
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	Feb. 02, 2025				
Coaxial cable	SKET	RE-03-D	1	Jun. 26, 2025				
Coaxial cable	SKET	RE-03-M) /	Jun. 26, 2025				
Coaxial cable	SKET	RE-03-L	1	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	/	Jun. 26, 2025				
Antenna Mast	Keleto	RE-AM	1	CEY				
EMI Test Software	EZ_EMC	FA-03A2 RE+	1.1.4.2					



5.7.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:

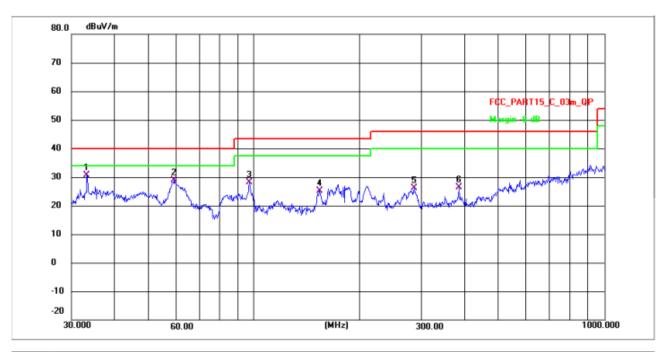


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	33.2693	35.17	-9.68	25.49	40.00	-14.51	QP	Р
2	83.6687	43.82	-22.72	21.10	40.00	-18.90	QP	Р
3	121.3354	44.01	-22.27	21.74	43.50	-21.76	QP	Р
4	188.0824	50.59	-21.65	28.94	43.50	-14.56	QP	Р
5 *	212.2692	51.21	-21.41	29.80	43.50	-13.70	QP	Р
6	291.0360	51.64	-20.69	30.95	46.00	-15.05	QP	Р





Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	33.2693	40.21	-9.68	30.53	40.00	-9.47	QP	Р
2	59.1285	38.23	-9.46	28.77	40.00	-11.23	QP	Р
3	96.9445	50.67	-22.51	28.16	43.50	-15.34	QP	Р
4	154.0081	47.17	-21.97	25.20	43.50	-18.30	QP	Р
5	285.9777	46.81	-20.74	26.07	46.00	-19.93	QP	Р
6	383.9318	46.22	-19.96	26.26	46.00	-19.74	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. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.
- 3. 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

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

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

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



Test Result of Radiated Spurious at Band edges

lest Result of Radiated Spurious at Band edges											
		Test	Mode: 1Mbp	s (LE 1M PF	łY)						
	Test Cha	nnel: Lov	west channe	I, Test Polar	ization: Ve	rtical					
Frequency	Reading	Factor	Level	Limit	Marging	Detector	Result				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)						
2310	66.25	-16.45	49.80	74	-24.20	Peak	Pass				
2390	65.13	-15.86	49.27	74	-24.73	Peak	Pass				
2400	66.26	-15.82	50.44	74	-23.56	Peak	Pass				
Test Channel: Lowest channel, Test Polarization: Horizontal											
Frequency	Reading	Factor	Level	Limit	Marging	Detector	Result				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)						
2310	66.57	-16.45	50.12	74	-23.88	Peak	Pass				
2390	65.45	-15.86	49.59	74	-24.41	Peak	Pass				
2400	66.58	-15.82	50.76	74	-23.24	Peak	Pass				
	Test Char	nnel: Hig	hest channe	l, Test Polar	ization: Ve	ertical					
Frequency	Reading	Factor	Level	Limit	Marging	Detector	Result				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)						
2483.5	67.63	-16.60	51.03	74	-22.97	Peak	Pass				
2500	65.91	-16.45	49.46	74	-24.54	Peak	Pass				
	Test Chani	nel: High	est channel,	Test Polariz	zation: Hor	izontal					
Frequency	Reading	Factor	Level	Limit	Marging	Detector	Result				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)						
2483.5	67.45	-16.60	50.85	74	-23.15	Peak	Pass				
2500	65.52	-16.45	49.07	74	-24.93	Peak	Pass				





Above 1GHz

Modulation ⁻	Type: 1M											
Low channe	Low channel: 2402 MHz											
	A := 4	Peak	AV	Correction	Emissic	on Level	Peak	A \ / 1: : t	Margin			
Frequency (MHz)	Ant. Pol.H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	ΑV (dBμV/m)	limit (dBµV/m)	AV limit (dBµV/m)	(dB)			
4804	Н	57.60		-9.51	48.09		74	54	-5.91			
7206	H	46.93		-1.41	45.52	<u> </u>	74	54	-8.48			
	(H)		// ()	🐰	U)	/	(0)				
4804	V	57.39		-9.51	47.88		74	54	-6.12			
7206	V	48.03		-1.41	46.62	(74	54	-7.38			
	V	Ä.)	<)					

Middle chan	nel: 2440	MHz		-2.					
Гиоличанан	Ant. Pol.H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction	Emissio	n Level	Peak	۸ <i>/ انمو</i> ند	Margin
Frequency (MHz)				Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	limit (dBµV/m)	AV limit (dBµV/m)	(dB)
4880	Н	56.19		-9.36	46.83		- 74	54	-7.17
7320	Н	46.90		-1.14	45.76		74	54	-8.24
<u></u>	Н)		-					<u> </u>
4880	V	56.64		-9.36	47.28		74	54	-6.72
7320	V	47.51		-1.14	46.37		74	54	-7.63
	V								

High channe	el: 2480 M	Hz)	(,c					(c)
	A 4	Peak	AV	Correction	Emissic	on Level	Peak	A \ / 1::t	Margin
Frequency (MHz)	Ant. Pol.H/V	reading (dBµV)	reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	limit (dBµV/m)	AV limit (dBµV/m)	(dB)
4960	H	58.26	(, (-9.20	49.06	S)	74	54	-4.94
7440	T	47.84		-0.96	46.88	<i></i>	74	54	-7.12
	Н								
					<u> </u>		7		
4960	V	57.21		-9.20	48.01		74	54	-5.99
7440	V	46.63		-0.96	45.67		74	54	-8.33
	V								

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 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.
- 6. All the restriction bands are compliance with the limit of 15.209.

Report No.: TCT241216E023



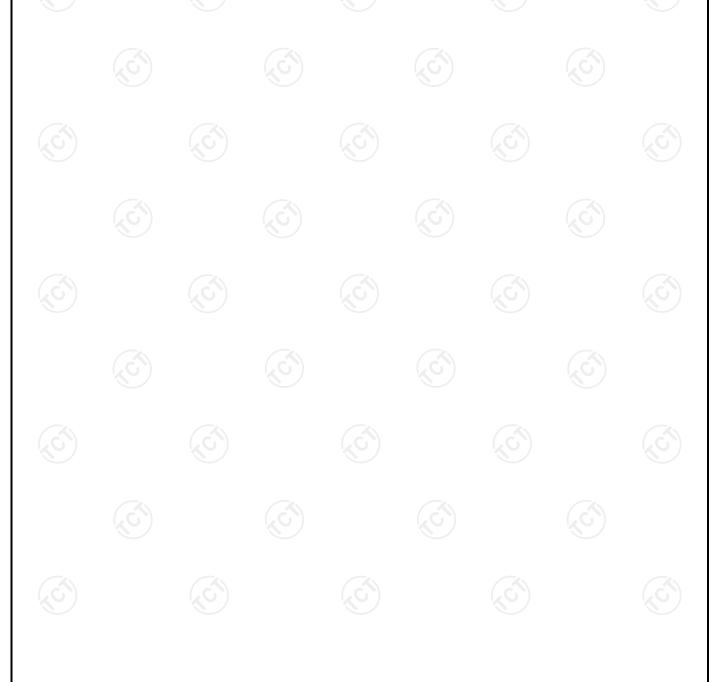
Appendix A: Test Result of Conducted Test

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

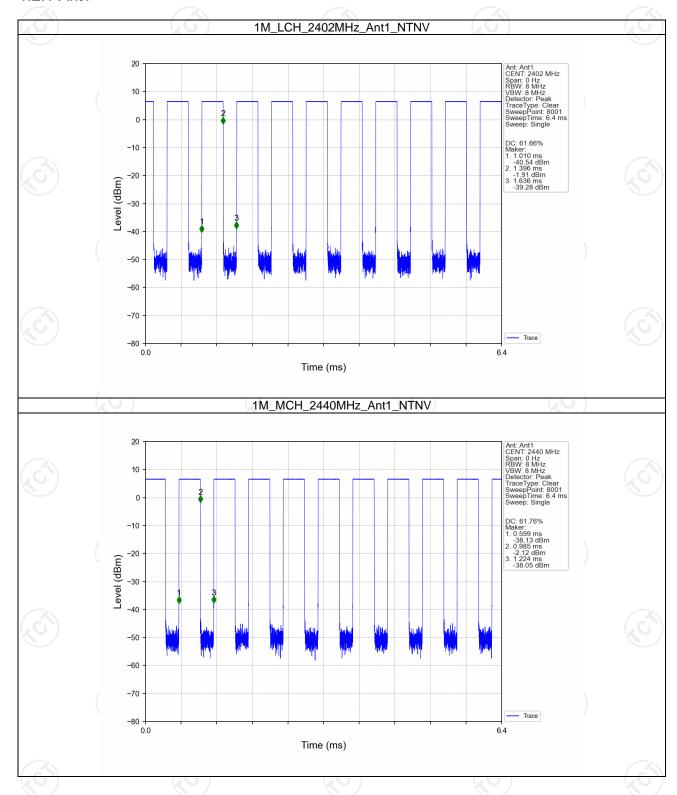
Ant1								
Mode	TX	Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC	
Mode	Type	(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)	
		2402	0.386	0.626	61.66	2.10	0.08	
1M	SISO	2440	0.386	0.625	61.76	2.09	0.13	
(2G)		2480	0.386	0.625	61.76	2.09	0.13	

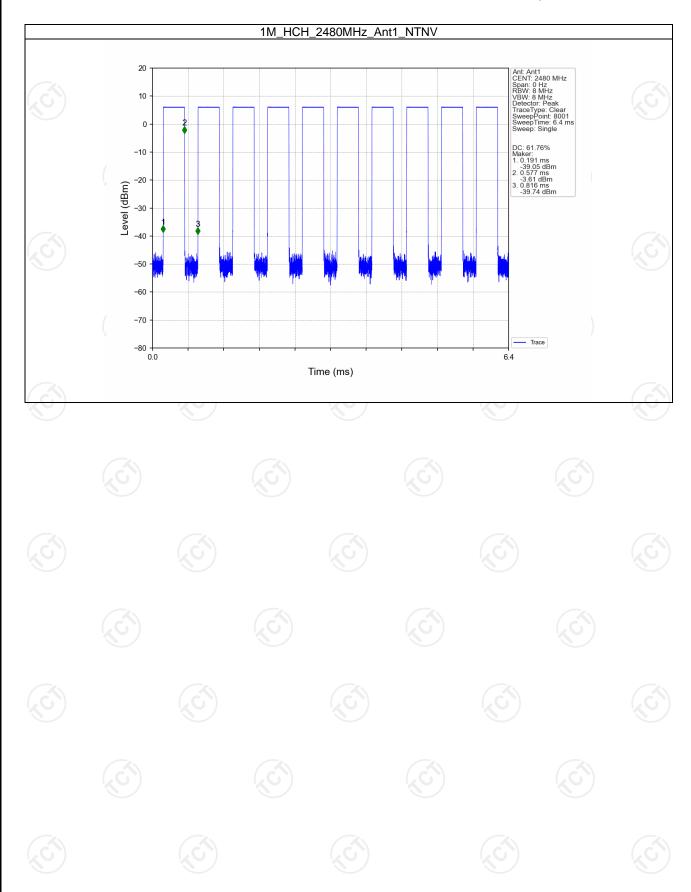




1.2 Test Graph

1.2.1 Ant1







2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANT	99% Occupied E	Verdict	
iviode	Type	(MHz)	ANI	Result	Limit	verdict
		2402	/ 1	1.032	1	Pass
1M	SISO	2440	1	1.032	/	Pass
		2480	1	1.032	/	Pass

2.1.2 6dB BW

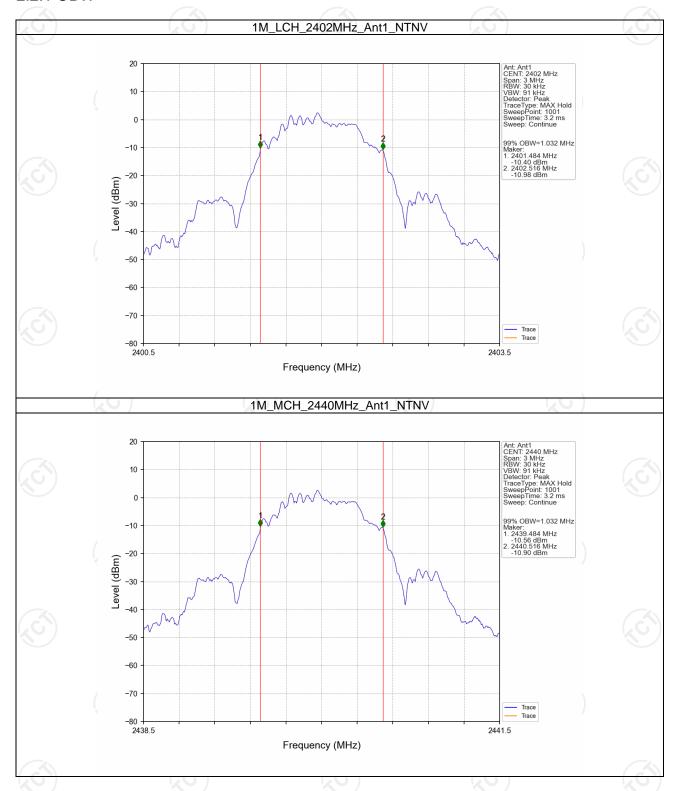
Mode	TX	Frequency ANT		6dB Bandv	Verdict	
iviode	Type	(MHz)	AINT	Result	Limit	verdict
1M	SISO	2402	1	0.670	>=0.5	Pass
		2440	1	0.667	>=0.5	Pass
		2480	1	0.664	>=0.5	Pass

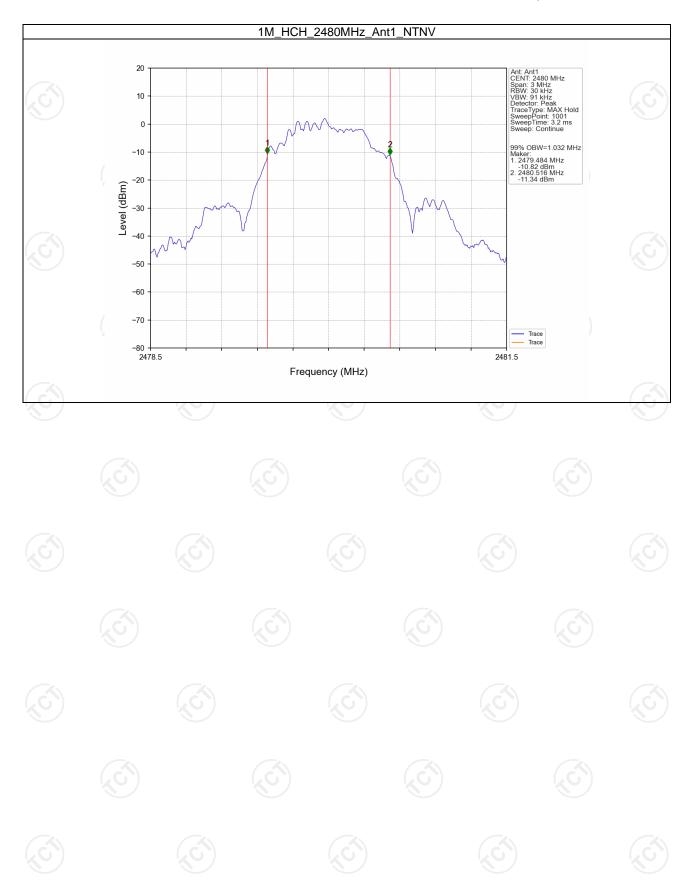




2.2 Test Graph

2.2.1 OBW

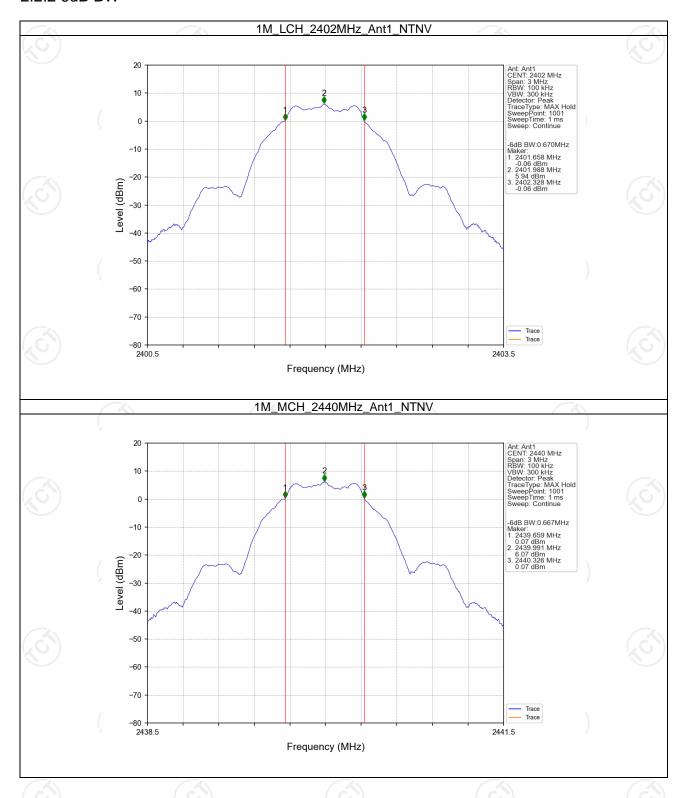


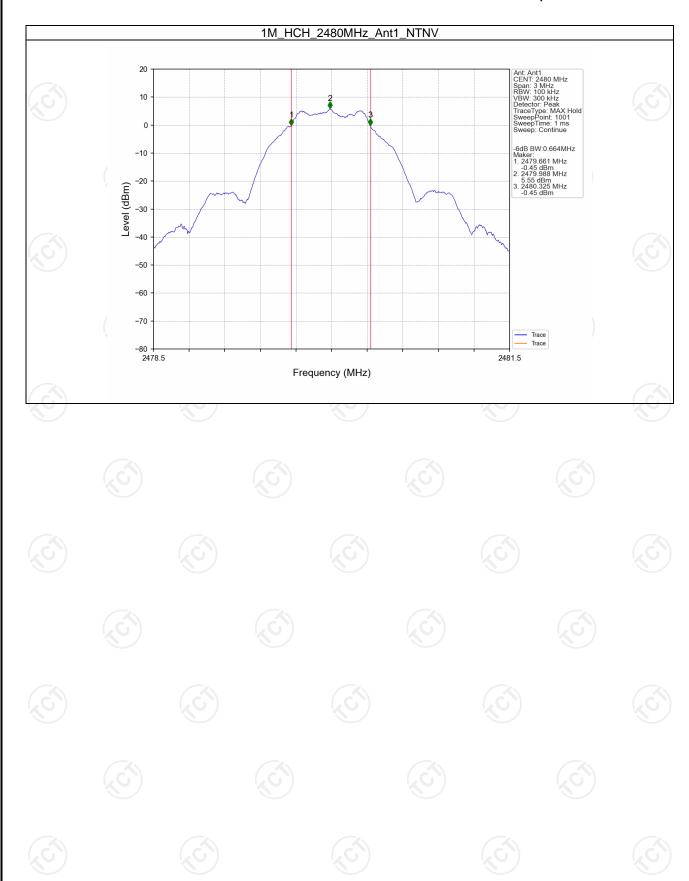






2.2.2 6dB BW





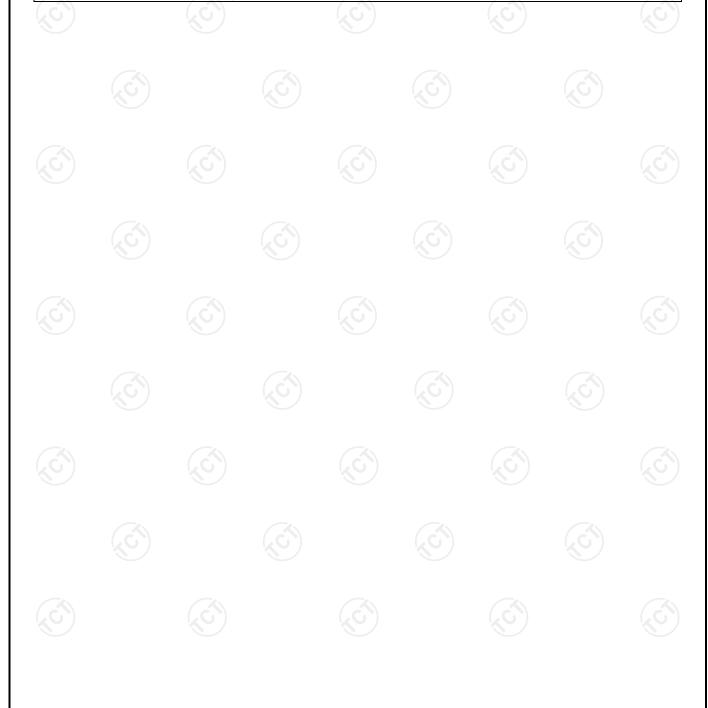


3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

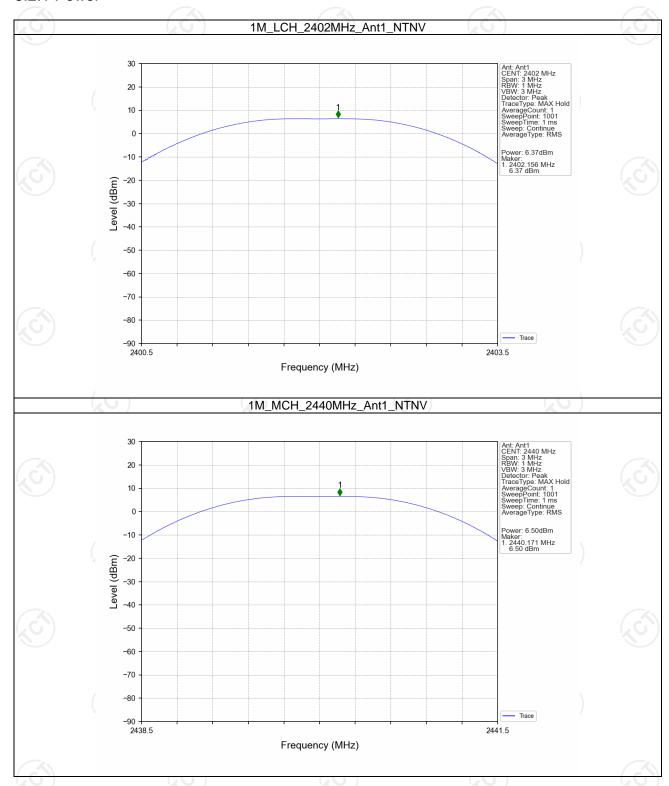
Mode	TX	Frequency	Maximum Peak Conducte	d Output Power (dBm)	Verdict
wode	Type	(MHz)	ANT1	Limit	verdict
		2402	6.37	<=30	Pass
1M	SISO	2440	6.50	<=30	Pass
		2480	5.99	<=30	Pass
Note1: Ante	nna Gain: Ant1: 0	.23dBi;			

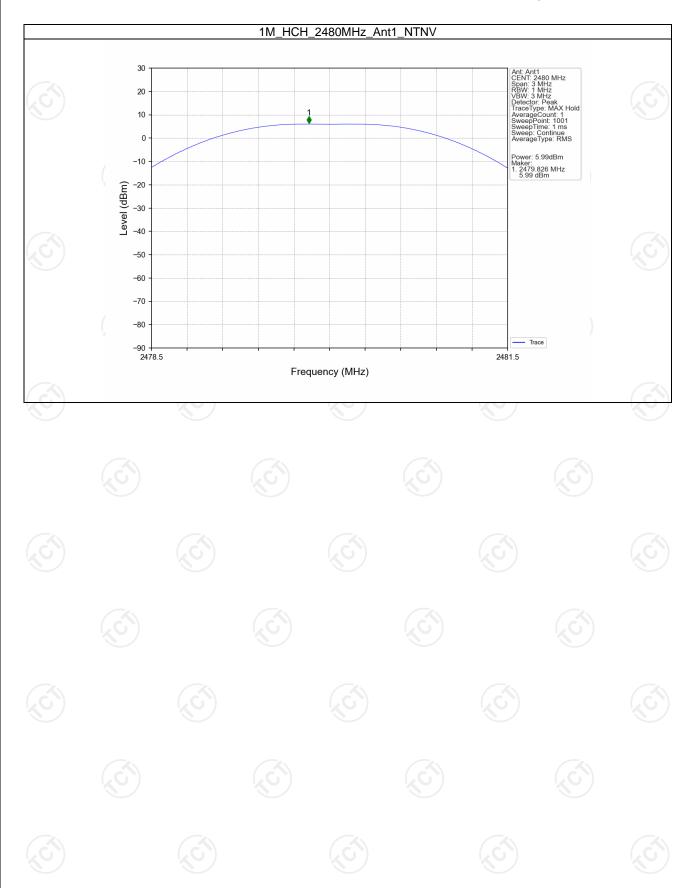




3.2 Test Graph

3.2.1 Power





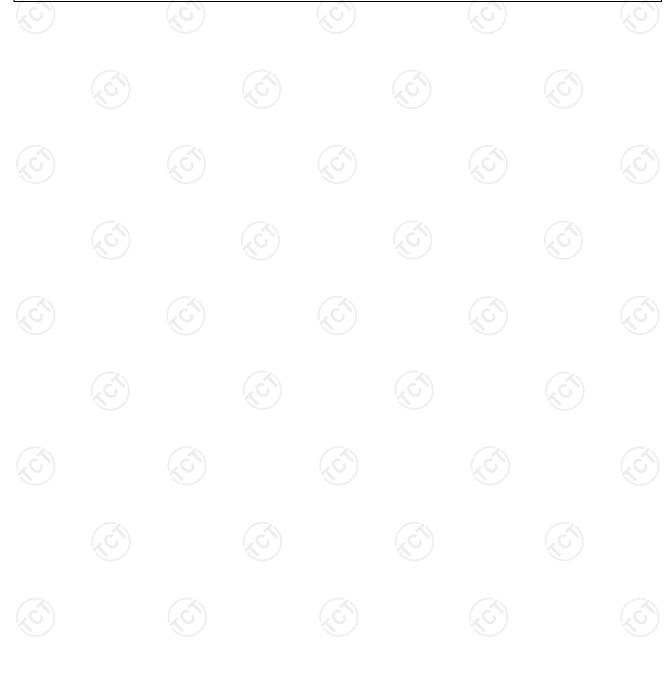


4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

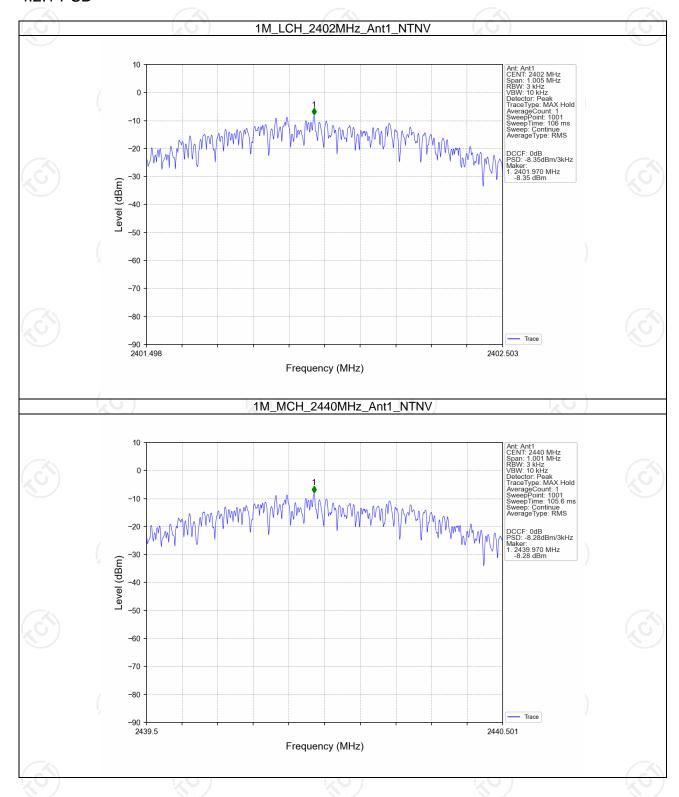
Mode	TX	Frequency	Maximum PSI	O (dBm/3kHz)	Verdict
Mode	Type	(MHz)	ANT1	Limit	verdict
		2402	-8.35	<=8	Pass
1M	SISO	2440	-8.28	<=8	Pass
		2480	-8.70	<=8	Pass
Note1: Antenna	a Gain: Ant1: 0.23	dBi;			

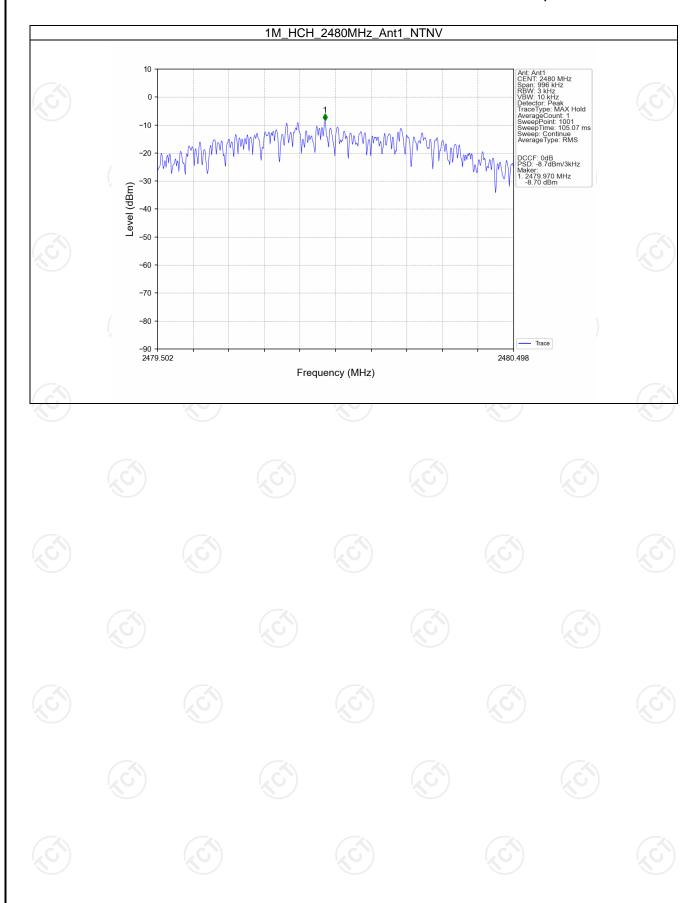




4.2 Test Graph

4.2.1 PSD







5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
		2402	1	5.93
1M	SISO	2440	1	6.06
		2480	1	5.55

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
		2402	/ 1	6.06	-13.94	Pass
1M	SISO	2440	1	6.06	-13.94	Pass
		2480	1	6.06	-13.94	Pass

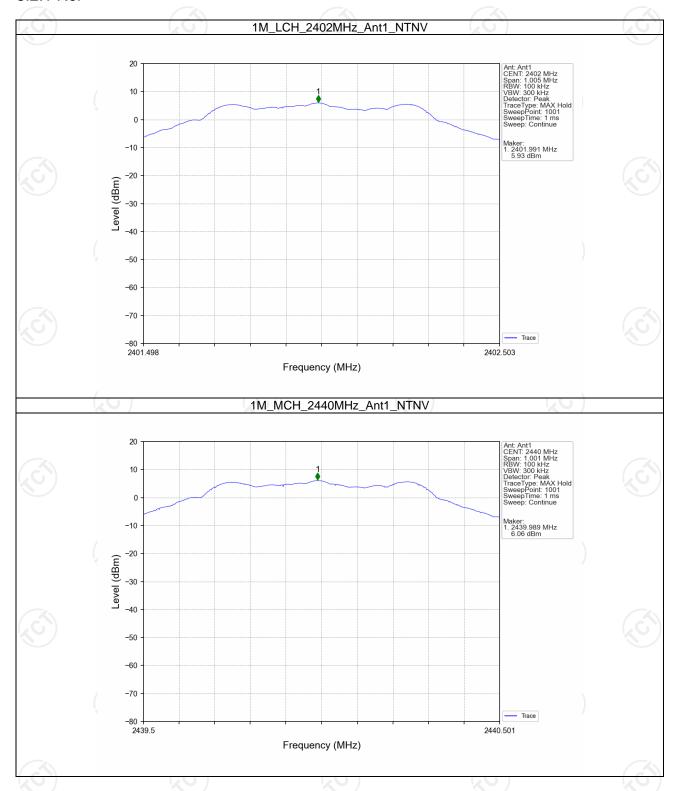
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

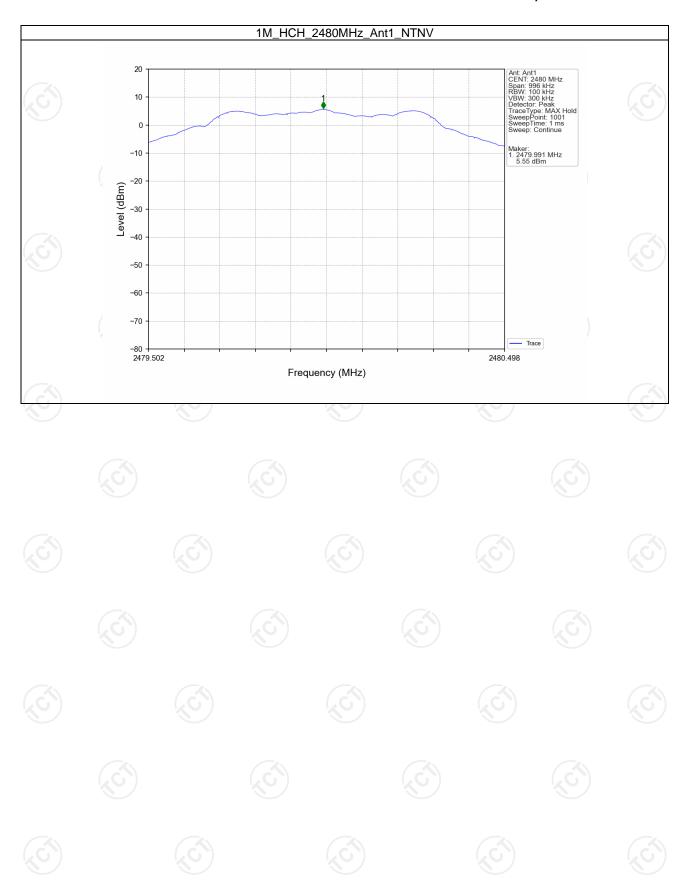




5.2 Test Graph

5.2.1 Ref

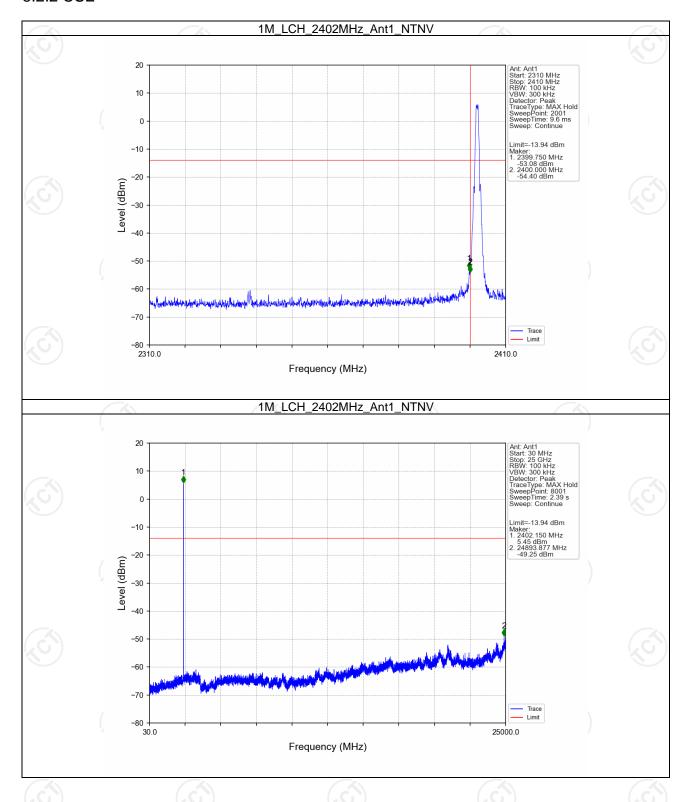






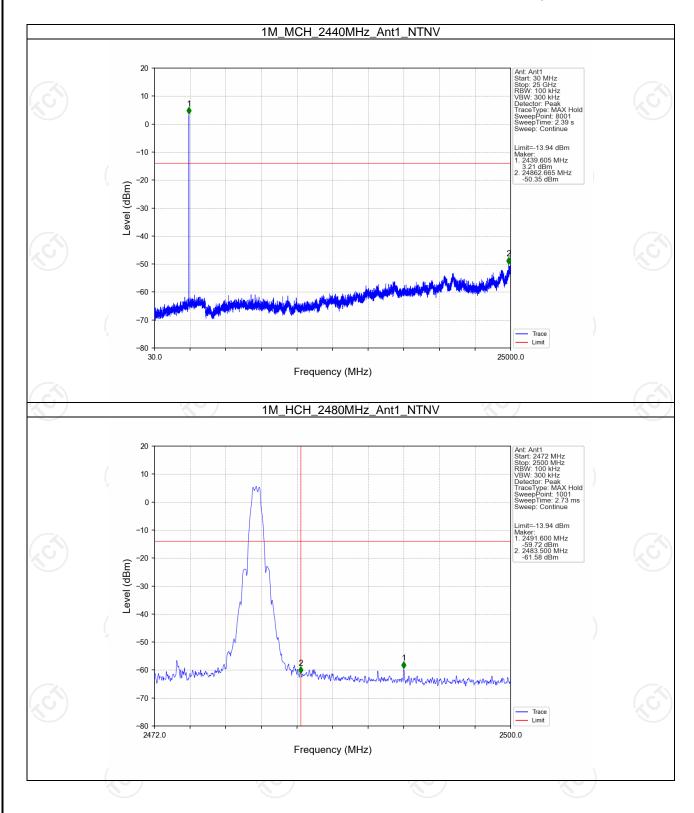


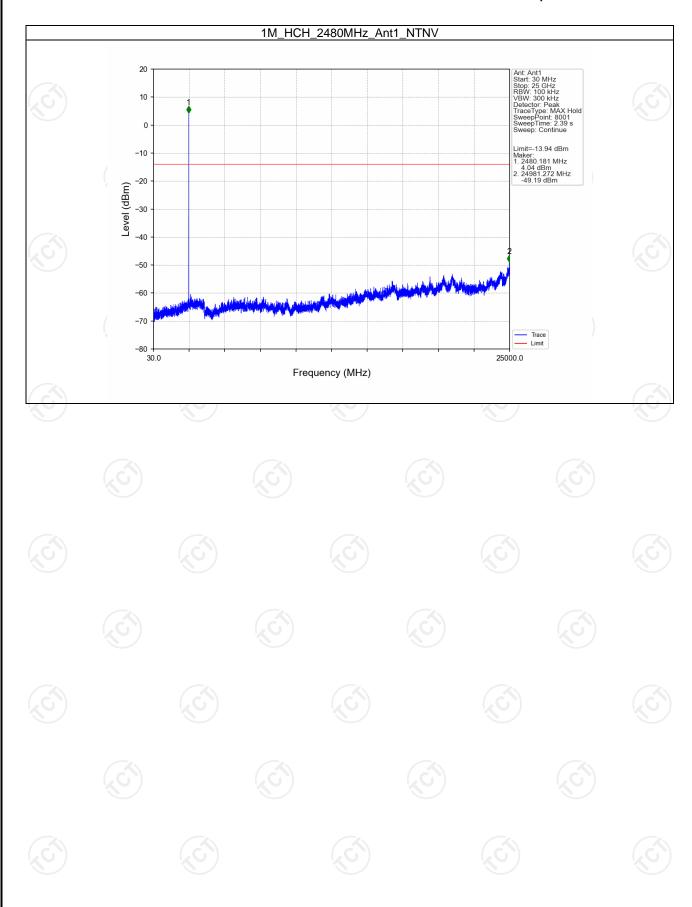
5.2.2 CSE













Appendix B: Photographs of Test Setup

Please refer to document Appendix No.: TCT241216E022-A

Appendix C: Photographs of EUT

Please refer to document Appendix No.: TCT241216E022-B & TCT241216E022-C

