



RF TEST REPORT

Product Name: 5G Smart phone

Model Number: Titan 2 Elite

FCC ID: 2AK6CTITAN2E

Issued For : Shanghai Unihertz E-Commerce Co., Ltd
Room 308, Building C, 508 Chundong Rd, Minhang district
Shanghai, China 201108

Issued By : Shenzhen LGT Test Service Co., Ltd.
Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China

Report Number: LGT26D022RF19

Sample Received Date: April 02, 2026

Date of Test: April 02, 2026 ~ May 14, 2026

Date of Issue: May 14, 2026

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TEST REPORT CERTIFICATION

Applicant: Shanghai Unihertz E-Commerce Co., Ltd

Address: Room 308, Building C, 508 Chundong Rd, Minhang district Shanghai, China 201108

Manufacturer: Shenzhen OBLUE Communication Technology Co.,Ltd.

Address: Room 702, Hepingdayou industrial and trade industrial park, No. 41, Yonghe Road, Heping Community, Fuhai Street, Baoan District, Shenzhen City, China

Product Name: 5G Smart phone

Trademark: Unihertz

Model Number: Titan 2 Elite

Sample Status: Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Part 15.225, Subpart C ANSI C63.10-2020	PASS

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Revision History

Rev.	Issue Date	Revisions
00	May 14, 2026	Initial Issue



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part 15.225, Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	--
15.209 15.225(a)(b)(c)(d)	Radiated Emission	PASS	--
15.225(e)	Frequency Tolerance	PASS	--
15.203	Antenna Requirement	PASS	--
15.215	20dB Bandwidth	PASS	--

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report.
- (2) All tests are according to ANSI C63.10-2020.



1.1 TEST LABORATORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate:	FCC Registration No.: 746540
	CAB ID: CN0136

1.2 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	Uncertainty
1	Occupied Channel Bandwidth	$\pm 0.46\%$
2	RF Output Power, Conducted	$\pm 0.71\text{dB}$
3	Power Spectral Density, Conducted	$\pm 1.57\text{dB}$
4	Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
5	Conducted emission	$\pm 2.80\text{dB}$
6	All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
7	All Emissions, Radiated (30MHz-1GHz)	$\pm 4.61\text{dB}$
8	All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$

Note: The measurement uncertainty is not included in the test result.



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF THE EUT

Product Name:	5G Smart phone	
Test Model Number:	Titan 2 Elite	
Series Number:	N/A	
Model Difference:	N/A	
Product Description:	Operation Frequency:	13.56MHz
	Modulation Type:	ASK
	Antenna Designation:	Please see Note 2.
Adapter:	Input: AC 100-240V 50/60Hz 0.8A Output: DC 5V 3A 15W or 9V 3A 27W or 12V 2.75A 33W MAX	
Battery:	Capacity: 4050mAh Rated Voltage: 3.84V	
Hardware Version:	G72_V1.0	
Software Version:	Titan 2E_20260326	
Connecting I/O Port(s):	Please refer to the Note 1.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.
2. The antenna information refers to the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.



2.2 DESCRIPTION OF THE TEST MODES

For conducted test items and radiated spurious emissions

Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively.

Worst Mode	Description
Mode 1	TX Mode

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

(2) We have be tested for all avaialbe U.S. voltage and Frequency (For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation, and the worst case of 120V/60Hz is shown in the report.

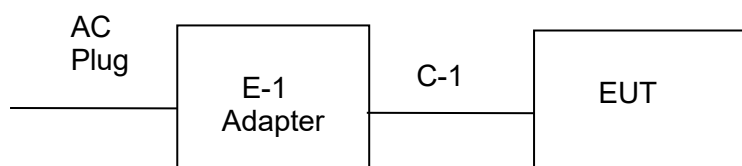
(3) The battery is fully-charged during the radited and RF conducted test.

2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test





2.4 DESCRIPTION OF NECESSARY ACCESSORIES AND 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.

Accessories Equipment

Description	Manufacturer	Model	S/N	Rating
USB-C to USB-C Cable	N/A	N/A	N/A	1m, shielded, without ferrite core
Adapter	Shenzhen Huajin Electronics Co.,Ltd	HJ-PD33W-US	N/A	Input: 100-240V 50/60Hz 0.8A Output: 5V 3A 15W or 9V 3A 27W or 12V 2.75A 33W MAX

Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



2.5 EQUIPMENTS LIST

Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2026-03-02	2027-03-01
LISN	COM-POWER	LI-115	02032	2026-03-03	2027-03-02
LISN	SCHWARZBECK	NNLK 8122	00160	2026-03-03	2027-03-02
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2026-03-03	2027-03-02
Coaxial cables (9kHz-30MHz)	Juncoax	JMR600 -NMNM-2M	N.A	2026-03-03	2027-03-02
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
Testing Software	EZ-EMC_Ver. EMC-CON 3A1.1+				

Radiated Test equipment					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
EMI Test Receiver	R&S	ESU8	100372	2026-03-02	2027-03-01
Active loop Antenna	ETS	6502	00049544	2025-03-11	2028-03-10
Spectrum Analyzer	Keysight	N9010B	MY60242508	2026-03-03	2027-03-02
Trilog Broadband Antenna (30M-1G)	SCHWARZBECK	VULB 9168	2705	2024-05-17	2027-05-16
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2025-03-10	2028-03-09
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2026-03-02	2027-03-01
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2026-03-02	2027-03-01
Coaxial cables (9kHz-1GHz)	Juncoax	JMR600 -NMNM-8M	N.A	2026-03-03	2027-03-02
Coaxial cables (1GHz-18GHz)	TaiHe	UCD460B -NMSM-1M9	N.A	2026-03-03	2027-03-02
Temperature & Humidity test chamber	AISRY	LX-1000L	171200018	2025-07-30	2026-07-29
Antenna Tower	SAEMC	BK-4AT-BS-D	SK2021093008	N.A	N.A
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2026-03-05	2027-03-04
Testing Software	EMC-I_V1.5.0.16_SKET				



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

The radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table.

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

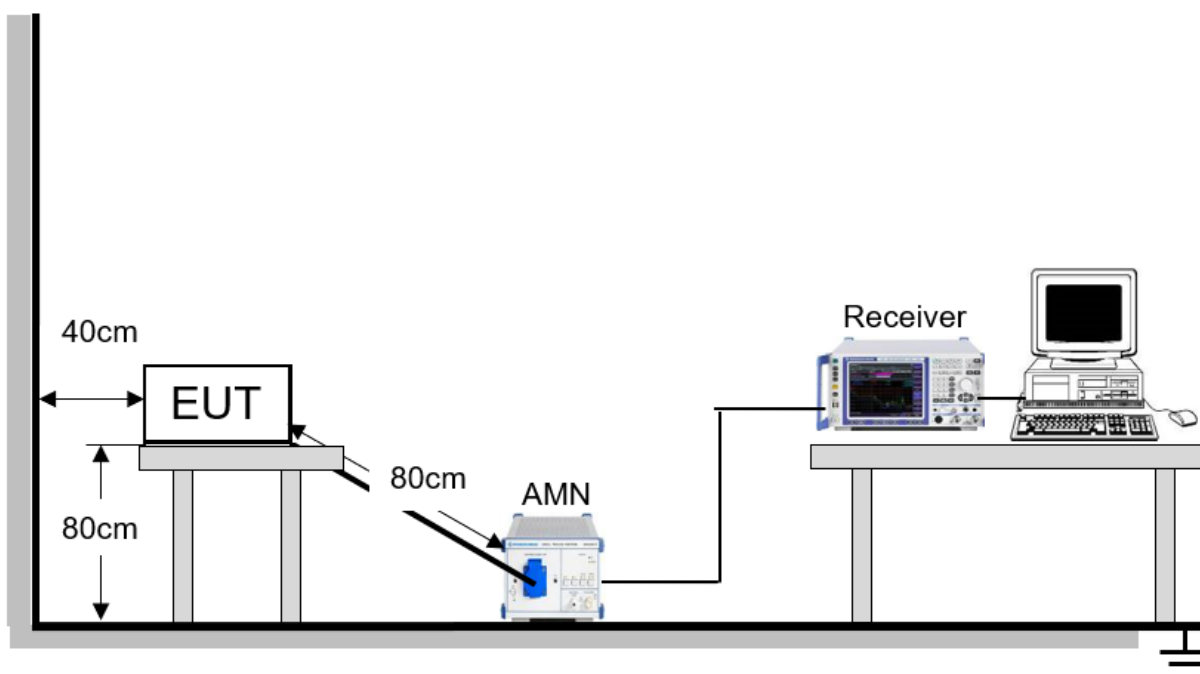
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.2 TEST PROCEDURE

- The EUT is 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments are powered from additional LISN(s). The LISN provides 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.3 TEST SETUP

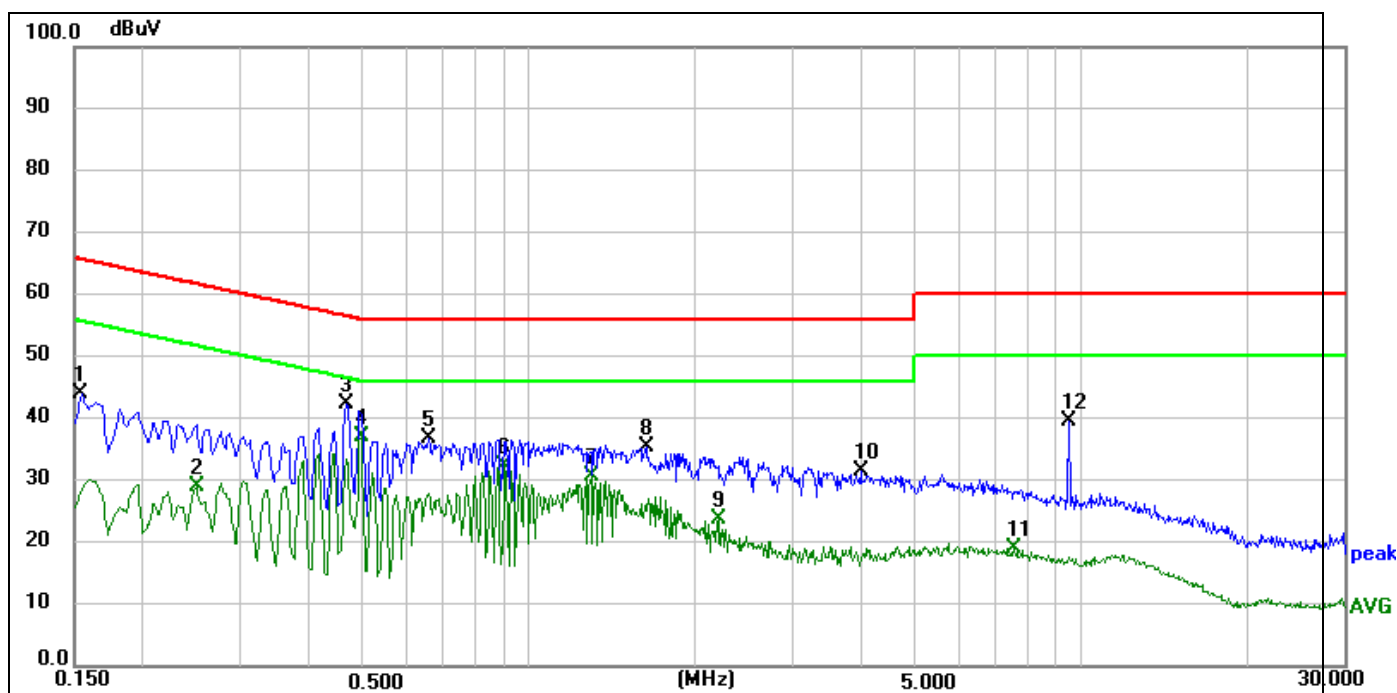


3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

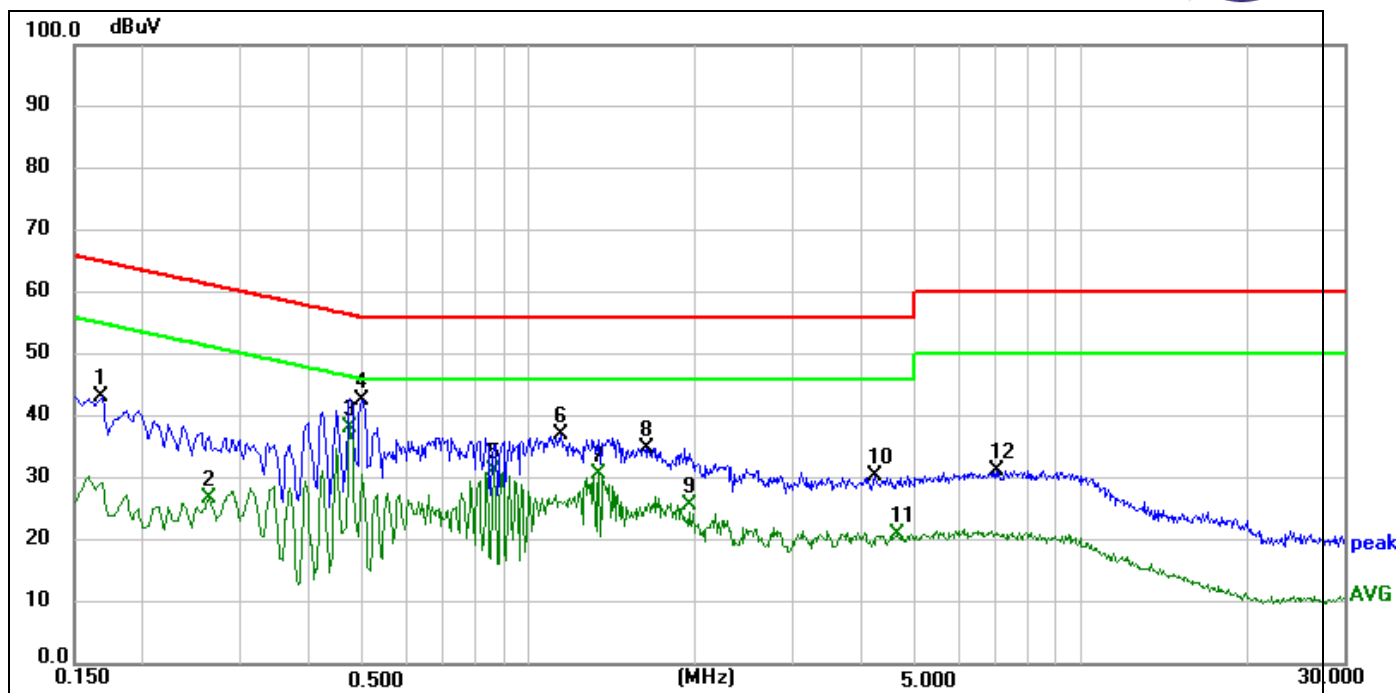


3.5 TEST RESULTS



Site: LAB	Phase: L1	Temperature(°C): 26°C
Limit: FCC Part 15C CE-Class B_QP	Atm Pressure: 983 mbar	Humidity(%): 54%RH
EUT: 5G Smart phone	Test Time:	2026/4/10 9:13:25
M/N.: NFC	Power Rating:	AC120V/60Hz
Mode: Titan 2 Elite	Test Engineer:	LiuH
Note:		

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.154	33.43	10.49	43.92	65.79	-21.87	QP
2	0.249	18.61	10.49	29.10	51.79	-22.69	AV
3	0.465	31.96	10.50	42.46	56.60	-14.14	QP
4	0.496	26.55	10.50	37.05	46.07	-9.02	AV
5	0.658	26.18	10.50	36.68	56.00	-19.32	QP
6	0.906	21.86	10.52	32.38	46.00	-13.62	AV
7	1.298	19.99	10.58	30.57	46.00	-15.43	AV
8	1.631	24.77	10.65	35.42	56.00	-20.58	QP
9	2.224	12.97	10.72	23.69	46.00	-22.31	AV
10	3.993	20.81	10.78	31.59	56.00	-24.41	QP
11	7.598	8.18	10.88	19.06	50.00	-30.94	AV
12	9.514	28.58	10.98	39.56	60.00	-20.44	QP



Site:	LAB	Phase:	N	Temperature(°C):	26°C
Limit:	FCC Part 15C CE-Class B_QP	Atm Pressure:	983 mbar	Humidity(%):	54%RH
EUT:	5G Smart phone	Test Time:	2026/4/10 9:16:01		
M/N.:	NFC	Power Rating:	AC120V/60Hz		
Mode:	Titan 2 Elite	Test Engineer:	LiuH		
Note:					

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.168	32.61	10.49	43.10	65.06	-21.96	QP
2	0.263	16.18	10.49	26.67	51.34	-24.67	AV
3	0.474	27.75	10.50	38.25	46.44	-8.19	AV
4	0.499	32.13	10.50	42.63	56.02	-13.39	QP
5	0.866	20.67	10.51	31.18	46.00	-14.82	AV
6	1.145	26.50	10.55	37.05	56.00	-18.95	QP
7	1.338	20.01	10.58	30.59	46.00	-15.41	AV
8	1.635	24.30	10.64	34.94	56.00	-21.06	QP
9	1.954	14.99	10.71	25.70	46.00	-20.30	AV
10	4.236	19.54	10.78	30.32	56.00	-25.68	QP
11	4.650	10.28	10.80	21.08	46.00	-24.92	AV
12	7.048	20.46	10.87	31.33	60.00	-28.67	QP



4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

- (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

(Radiated Emission <30MHz (9KHz-30MHz, H-field)

According to FCC section 15.225, for <30MHz, Radiated emissions were measured according to ANSIC63.4. The EUT was set to transmit at the highest output power. The EUT was set 30 meter away from the measuring antenna. The loop antenna was positioned 1 meter above the ground from the center of the loop. The measuring bandwidth was set to 10KHz. (Note: During testing the receive antenna was rotated about its axis to maximize the emission from the EUT)

There was no detected Restricted bands and Radiated suprious emission below 30MHz. The 30m limit was converted to 3m Limit using square factor(x) as it was found by measurements as follows;

3 m Limit(dBuV/m) = $20\log(X) + 40\log(30/3) = 20\log(15,848) + 40\log(30/3) = 124\text{dBuV}$

3 m Limit(dBuV/m) = $20\log(X) + 40\log(30/3) = 20\log(334) + 40\log(30/3) = 90.47\text{dBuV}$

3 m Limit(dBuV/m) = $20\log(X) + 40\log(30/3) = 20\log(106) + 40\log(30/3) = 80.506\text{dBuV}$

3 m Limit(dBuV/m) = $20\log(X) + 40\log(30/3) = 20\log(30) + 40\log(30/3) = 69.54\text{dBuV}$

Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

Frequency range (KHz)	Frequency (KHz)	Field Strength@300m		Field Strength@3m
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
9 ~ 490	9	266.67	48.52	128.52
	150	16.00	24.08	104.08
	490	4.90	13.80	93.80

Frequency range (KHz)	Frequency (KHz)	Field Strength@30m		Field Strength@3m
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
490 ~ 1705	490	48.98	33.80	73.80
	1705	14.08	22.97	62.97

Frequency range (KHz)	Frequency (KHz)	Field Strength@30m		Field Strength@3m
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
1705 ~ 30000	1705	30.00	29.54	69.54
	30000	30.00	29.54	69.54



Frequency range (MHz)	Field Strength@30m		Field Strength@3m
	$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
13.110 ~ 13.410	106	40.5	80.5
13.410 ~ 13.553	334	50.5	90.5
13.553 ~13.567	15.848	84	124.0
13.567 ~ 13.710	334	50.5	90.5
13.710 ~14.010	106	40.5	80.5

NOTE:

- a) Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log[\text{Field Strength } (\mu\text{V/m})]$.
b) In the emission tables above, the tighter limit applies at the Band edge.

Radiated Emission >30MHz (30MHz-1GHz, E-field)

According to FCC section 15.205, the field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the following values:

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



4.2 TEST PROCEDURE

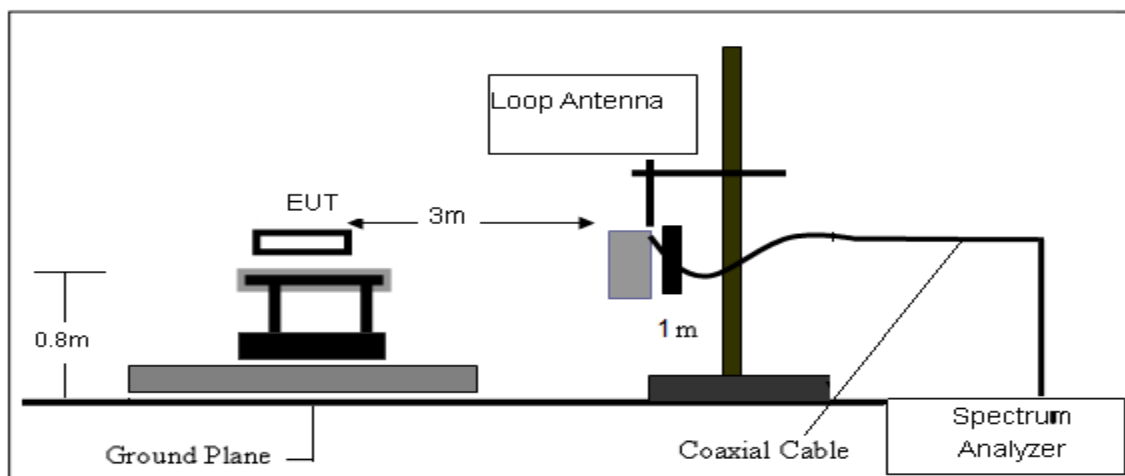
- a. The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a variable-height antenna master tower. For the test Antenna
- b. In the frequency range of 9KHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
- c. In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.
- f. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- h. For the actual test configuration, please refer to the related Item –EUT Test Photos.

NOTE:

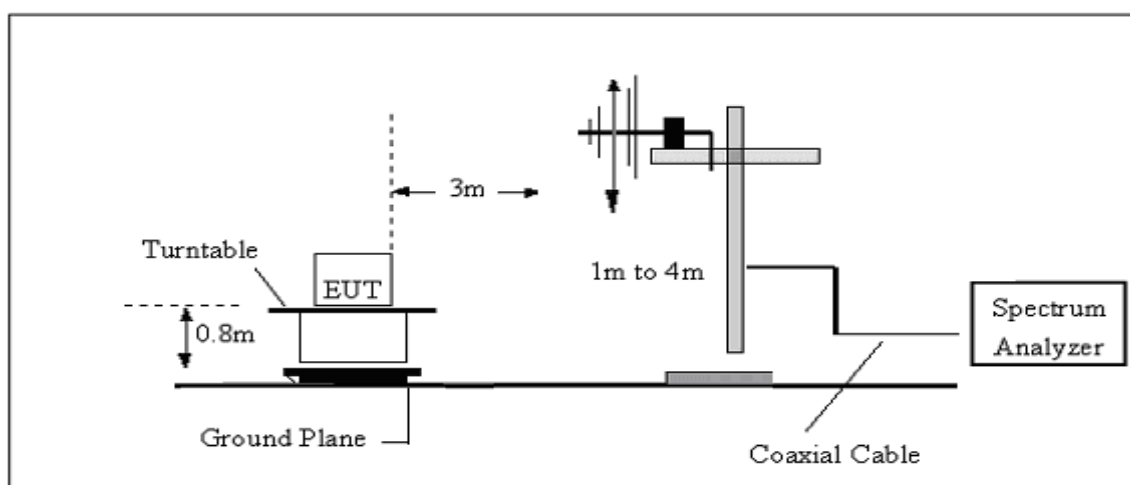
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



4.4 EUT OPERATING CONDITIONS

Please refer to section 3.4 of this report.



4.5 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBμV/m)	(dBμV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

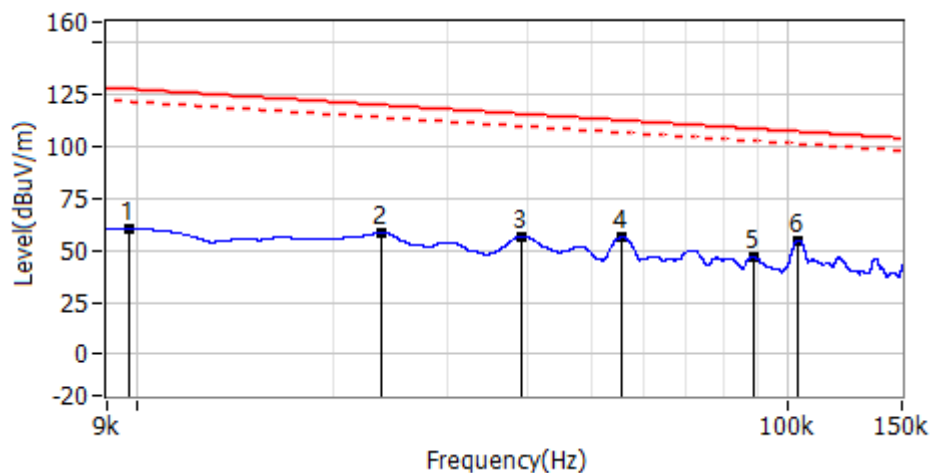
$$\text{Factor} = \text{AF} + \text{CL} - \text{AG}$$



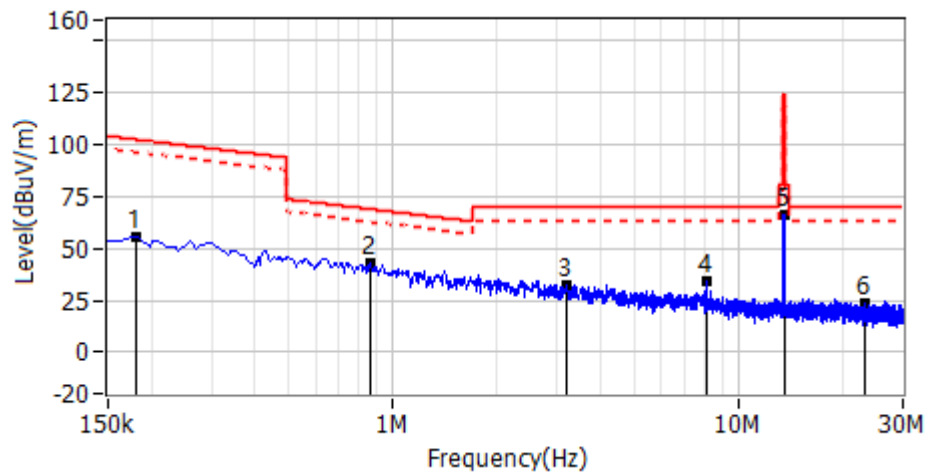
4.6 TEST RESULTS

(Radiated Emission<30MHz (9KHz-30MHz, H-field))

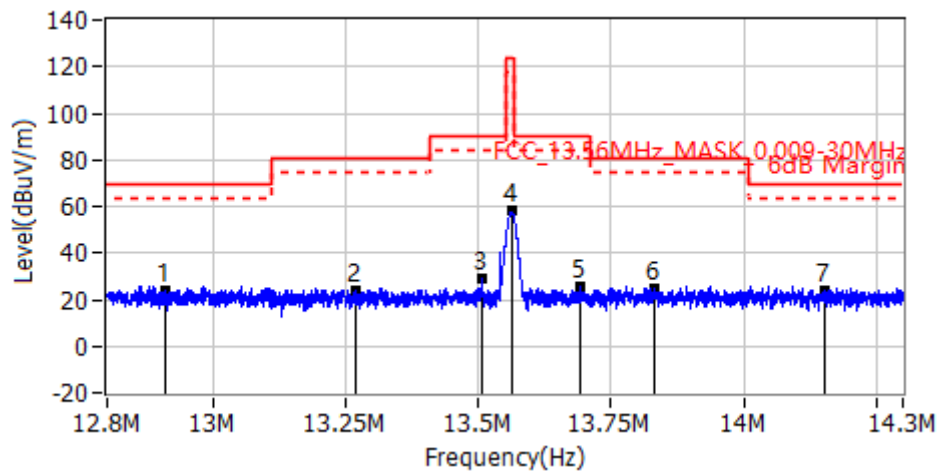
Note: 1. Both coaxial and coplanar have been tested, only shown the worst case data.



No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	9.7050kHz	41.50	18.73	60.23	127.86	-67.63	PK
2*	23.8402kHz	44.34	14.14	58.48	120.06	-61.58	PK
3*	39.0506kHz	43.92	12.84	56.76	115.77	-59.01	PK
4*	55.6534kHz	44.43	12.02	56.45	112.69	-56.24	PK
5*	88.8589kHz	34.65	12.02	46.67	108.63	-61.96	PK
6*	104.0516kHz	42.82	12.02	54.84	107.26	-52.42	PK



No.	Frequency	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	179.8500kHz	43.77	12.03	55.80	102.50	-46.70	PK
2*	858.9375kHz	30.39	12.05	42.44	68.92	-26.48	PK
3*	3.1910MHz	20.64	12.08	32.72	69.54	-36.82	PK
4*	8.0714MHz	21.80	12.22	34.02	69.54	-35.52	PK
5*	13.5601MHz	54.51	11.34	65.85	124.00	-58.15	PK
6*	23.1905MHz	13.22	10.42	23.64	69.54	-45.90	PK

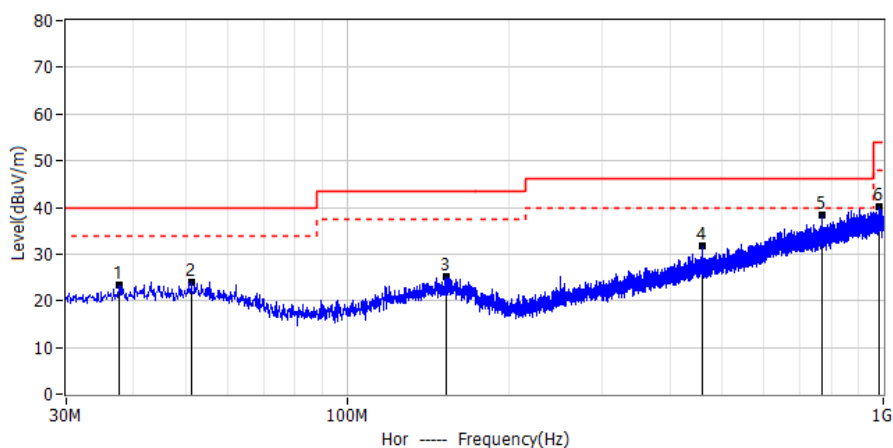


No.	Frequency	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector
1*	12.9103MHz	13.23	11.00	24.23	69.54	-45.31	PK
2*	13.2693MHz	13.08	11.00	24.08	80.50	-56.42	PK
3*	13.5061MHz	17.88	11.00	28.88	90.50	-61.62	PK
4*	13.5626MHz	46.85	11.00	57.85	124.00	-66.15	PK
5*	13.6925MHz	14.62	11.00	25.62	90.50	-64.88	PK
6*	13.8326MHz	14.03	11.00	25.03	80.50	-55.47	PK
7*	14.1539MHz	12.90	11.00	23.90	69.54	-45.64	PK

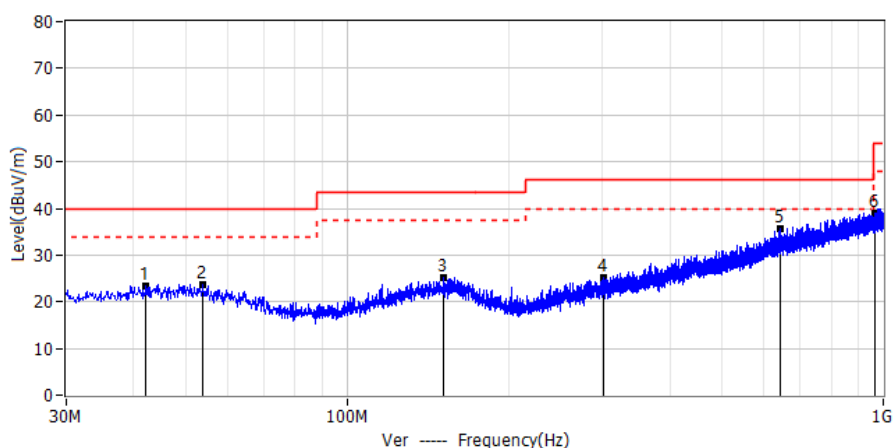


Between 30-1000MHz

Project: LGT26D022	Test Engineer: zhangyangda
EUT: 5G Smart phone	Temperature: 25.8°C
M/N: Titan 2 Elite	Humidity: 53%RH
Test Voltage: Battery	Test Data: 2026-04-14
Test Mode: NFC	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	37.639	3.33	20.04	23.37	40.00	-16.63	QP	Hor
2*	51.340	3.17	20.86	24.03	40.00	-15.97	QP	Hor
3*	153.675	3.11	22.05	25.16	43.50	-18.34	QP	Hor
4*	460.923	5.19	26.52	31.71	46.00	-14.29	QP	Hor
5*	770.231	6.54	31.95	38.49	46.00	-7.51	QP	Hor
6*	984.965	4.60	35.51	40.11	54.00	-13.89	QP	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	42.246	2.66	20.84	23.50	40.00	-16.50	QP	Ver
2*	54.008	2.98	20.58	23.56	40.00	-16.44	QP	Ver
3*	151.856	3.62	21.65	25.27	43.50	-18.23	QP	Ver
4*	300.994	3.26	22.05	25.31	46.00	-20.69	QP	Ver
5*	643.525	5.22	30.49	35.71	46.00	-10.29	QP	Ver
6*	966.899	4.20	34.82	39.02	54.00	-14.98	QP	Ver



5. FREQUENCY TOLERANCE

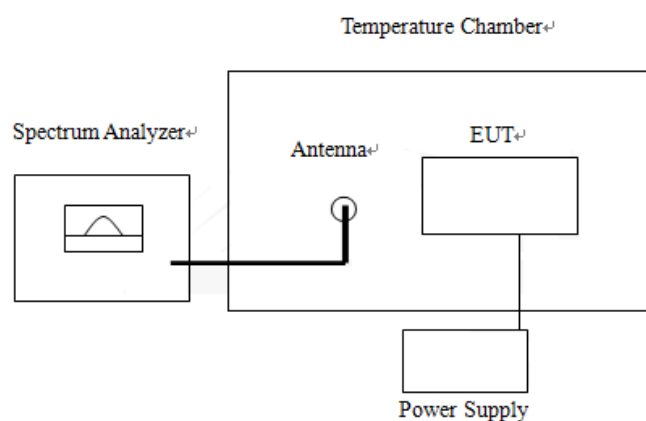
5.1 LIMIT

According to FCC section 15.225, the devices operating in the 13.553-13.567 MHz shall maintain the carrier frequency within 0.01% of the operating frequency over the temperature variation of -20°C to +50°C using an environmental chamber. The primary supply voltage is varied from 85% to 115% of the voltage normally at the input to the device or at the power supply terminals if cables are not normally supplied.

5.2 TEST PROCEDURE

According to FCC section 15.225(e), The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.3 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading

5.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.



5.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	50%
Test Voltage:	DC 3.84V	Test Mode:	TX Mode

13.56MHz

VOLTAGE(%)	Test Conditions		Frequency	Deviation	Limit	Verdict
	Power (VDC)	Temperature (°C)	(Hz)			
100	3.84	+20°C(Ref)	13560041	0.00030%	±0.01%	PASS
100		-20	13560757	0.00558%	±0.01%	
100		-10	13560088	0.00065%	±0.01%	
100		0	13559609	-0.00289%	±0.01%	
100		10	13559412	-0.00434%	±0.01%	
100		20	13559657	-0.00253%	±0.01%	
100		25	13559919	-0.00060%	±0.01%	
100		30	13560334	0.00246%	±0.01%	
100		40	13560764	0.00564%	±0.01%	
100		50	13560948	0.00699%	±0.01%	
Battery End Point	3.26	20	13560240	0.00177%	±0.01%	
115	4.42	20	13559888	-0.00082%	±0.01%	



6. 20DB BANDWIDTH

6.1 LIMIT

According to FCC section 15.215©, the 20dB bandwidth should be contained within the frequency band designated in the rule section under which the EUT is operated, it was measured with a spectrum analyzer connected the EUT while the EUT is operating in transmission mode.

6.2 TEST PROCEDURE

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §13.553-13.567 MHz and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

1. Set RBW = 1 kHz.
2. Set the video 5G Smart phonewidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 TEST SETUP



6.4 EUT OPERATION CONDITIONS

Please refer to section 3.4 of this report.

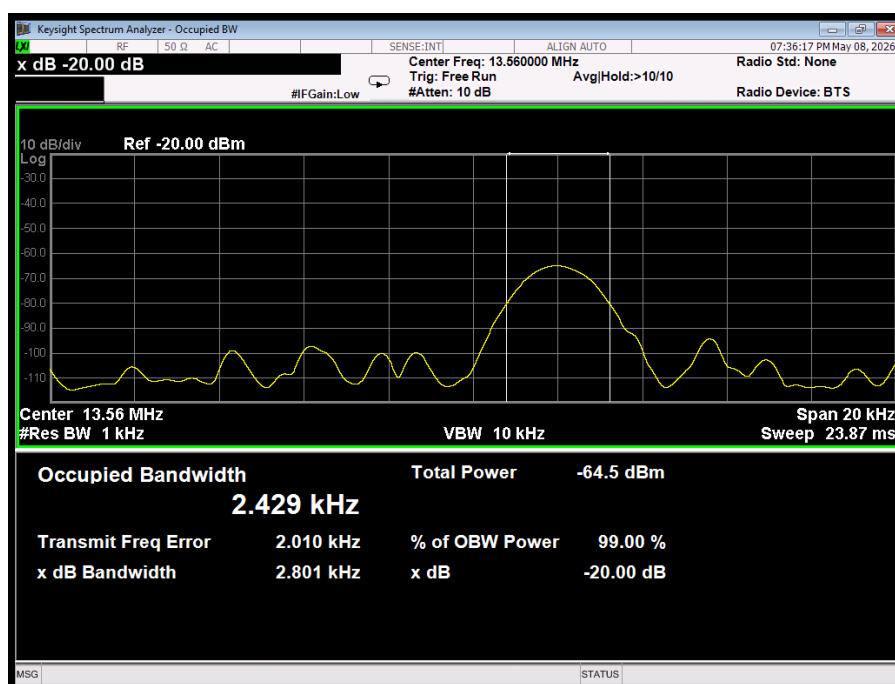


6.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	50%
Test Voltage:	DC 3.84V	Test Mode:	TX Mode

13.56MHz

Centre Frequency	Measurement		
	20dB Bandwidth	99% Bandwidth	Frequency Range
	(KHz)	(KHz)	
13.56MHz	2.801	2.429	13.553-13.567



Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 1 kHz to perform the occupied bandwidth test.



7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

Part 15.203 requirement: For intentional device, according to 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.

7.2 EUT ANTENNA

The EUT antenna is coil Antenna. It comply with the standard requirement.

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