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Report Template Version: V05 Report Template Revision Date: 2021-11-03

检测 TESTING CNAS L5785 Test Report

*	in the configuration test	ad the EUT complied with the standards apositied above
٦	Fest Result:	PASS*
0	Date of Issue:	2025-4-27
0	Date of Test:	2025-03-25 to 2025-04-18
0	Date of Receipt:	2025-03-25
		ANSI C63.10:2013
		KDB558074 D01 15.247 Meas Guidance v05r02
ŝ	Standards:	47 CFR Part 15, Subpart C
F	FCC ID:	2BAJ3-RING01-9-10
E	Brand Name:	N/A
٦	Fest Model No.:	Alter Ring-10
ľ	Model No.:	Alter Ring-09, Alter Ring-10
F	Product:	Alter Ring
E	Equipment Under Test (E	UT):
4	Address of Applicant:	3400 W Mayflower Avenue, Suite 300, Lehi, Utah, 84043, US
4	Applicant:	Fit Wind, LLC
F	Report No.:	CQASZ20250300652E-01

*In the configuration tested, the EUT complied with the standards specified above.

Tested By:	lewis zhou	
	(Lewis Zhou)	TESTING TEST
Reviewed By:	Timo Lej	
	(Timo Lei)	是华夏准测
Approved By:	Jamos	30 * APPROVED *
	(Jack Ai)	

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250300652E-01	Rev.01	Initial report	2025-4-27



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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4 General Information

4.1 Client Information

Applicant:	Fit Wind, LLC	
Address of Applicant:	3400 W Mayflower Avenue, Suite 300, Lehi, Utah, 84043, US	
Manufacturer:	Joint Chinese Ltd	
Address of Manufacturer:	Building 4 & 6, Huafeng Tech Park, Guangtian Road, Luotian Industrial Area, Songgang Town, Bao' an District, Shenzhen, China	
Factory:	Joint Chinese Ltd	
Address of Factory:	Building 4 & 6, Huafeng Tech Park, Guangtian Road, Luotian Industrial Area, Songgang Town, Bao' an District, Shenzhen, China	

4.2 General Description of EUT

Product Name:	Alter Ring		
Model No.:	Alter Ring-09, Alter Ring-10		
Test Model No.:	Alter Ring-10		
Trade Mark:	N/A		
Software Version:	2301A V0.4.8.6		
Hardware Version:	2301A V2		
Operation Frequency:	2402MHz~2480MHz		
Bluetooth Version:	V5.0		
Modulation Type:	GFSK		
Transfer Rate: 1Mbps			
Number of Channel:	40		
Product Type:	□ Mobile		
Test Software of EUT:	nrfgostudio		
Antenna Type:	Chip antenna		
Antenna Gain:	0.5dBi		
EUT Power Supply:	Li-ion battery: DC 3.7V 18.5mAh, Charge by Wireless charging for adapter		
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.		
	⊠ Simultaneous TX is not supported.		



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

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



4.3 Additional Instructions

Mode:	e: Special software is used.				
			he engineering mode		
		Through engineering command into the engineering mode. engineering command: *#*#3646633#*#*			
EUT Power level:	selected)	wer level is built-in set param	eters and cannot be changed and		
	e lowest frequency	y, the middle frequency and the	he highest frequency keep		
ransmitting of the EUT.		Channel			
Mode		Channel	Frequency(MHz)		
		CH0	2402		
GFSK		CH19	2440		
		CH39	2480		
File View nRF8001 Setup Help	× Direct Test Mode	NART interface			
▼ 2.4 GHz	Direct lest Lode				
✓ Front-End Tests	Set up on	▼ Program			
TX carrier wave output RX constant carrier/LO leak	Com port COM5 Mode	Refresh list of com ports			
TX/RX channel sweep	Mode Transmit	O Receive			
RX sensitivity V Bluetooth		O necenve			
nRF8001 Configuration	Channel Single	O Sweep			
Dispatcher					
Trace Translator	Channel	19 🔹			
Direct Test Mode	1	PRES9 *			
Direct Test Mode nRF8002	Pavload model				
nRF8002 vevice Manager	 ✓ Payload model × ✓ Payload length 	Concerns of the second se			
nRF8002 Nevice Manager > Motherboards		37 bytes 🛟			
nRF8002 V Device Manager >	× Payload length	37 bytes			
nRF8002 Device Manager > Motherboards nRF5x Programming	× Payload length	37 bytes \$ N∕A			
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nRF8002 view of Manager view Manager view Motherboards nRF5x Programming nRF5x Bootloader	× Payload length	37 bytes ♀ N/A			



4.4 Test Environment

Operating Environment	Operating Environment:				
Temperature:	24.5°C				
Humidity:	59% RH				
Atmospheric Pressure:	1009mbar				
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.				

4.5 Description of Support Units

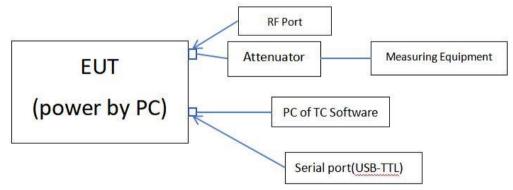
The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	MI	/	/	CQA
2) Cable				

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	1	/	/

4.6 Test configuration





4.7 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

No.	Item	Uncertainty
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10 ⁻⁸
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8°C
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz

Hereafter the best measurement capability for CQA laboratory is reported:



4.8 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.9 Test Facility

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.10 Deviation from Standards

None.

4.11 Other Information Requested by the Customer

None.



4.12Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU26	CQA-038	2024/9/2	2025/9/1
Spectrum analyzer	R&S	FSU40	CQA-075	2024/9/2	2025/9/1
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2024/9/2	2025/9/1
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2024/9/2	2025/9/1
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/9/2	2025/9/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2024/9/2	2025/9/1
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2024/9/2	2025/9/1
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2	2025/9/1
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2	2025/9/1
Power meter	R&S	NRVD	CQA-029	2024/9/2	2025/9/1
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2024/9/2	2025/9/1
EMI Test Receiver	R&S	ESR7	CQA-005	2024/9/2	2025/9/1
LISN	R&S	ENV216	CQA-003	2024/9/2	2025/9/1
Coaxial cable	CQA	N/A	CQA-C009	2024/9/2	2025/9/1
DC power	KEYSIGHT	E3631A	CQA-028	2024/9/2	2025/9/1
10dB Attenuator	JLINK	SMA-AT27-10-5W	C022	2024/9/2	2025/9/1

Test software:

		Software	Software
	Manufacturer	brand	version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

Note:

The temporary antenna connector is soldered on the pcb board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

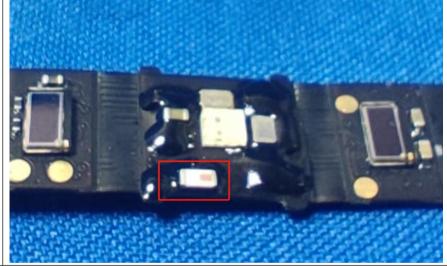
15.203 requirement:

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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is Chip antenna. The connection/connection type between the antenna to the EUT's antenna port is: permanently attachment.

This is either permanently attachment or a unique coupling that satisfies the requirement.



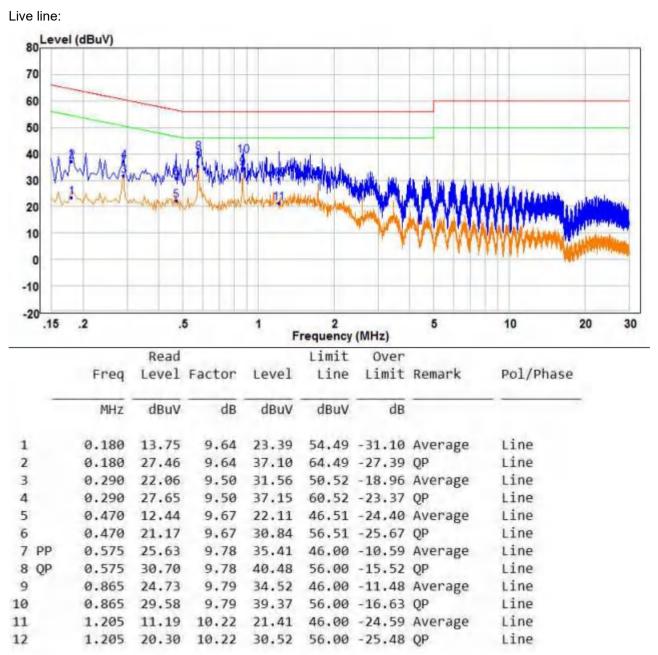
Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:		Limit (d	lBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithm of	f the frequency.				
Test Procedure:	1) The mains terminal disturb room.	oance voltage test was	s conducted in a shielded			
	 The mains terminal disturbance voltage test was conducted room. The EUT was connected to AC power source through a LISN Impedance Stabilization Network) which provides a 50Ω/50µH impedance. The power cables of all other units of the EUT we connected to a second LISN 2, which was bonded to the grour reference plane in the same way as the LISN 1 for the unit be measured. A multiple socket outlet strip was used to connect power cables to a single LISN provided the rating of the LISN exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m ground reference plane. And for floor-standing arrangement, it placed on the horizontal ground reference plane, The test was performed with a vertical ground reference plane of the EUT shall be 0.4 m from the vertical ground reference plane is bonded to the horizontal reference plane. The LISN 1 was placed 0.8 m from the boun unit under test and bonded to a ground reference plane for LI mounted on top of the ground reference plane. This distance between the closest points of the LISN 1 and the EUT. All oth the EUT and associated equipment was at least 0.8 m from th 					



Test Setup:	Shielding Room Fut Fut AE USN1 Ground Reference Plane
Test Mode:	Through Pre-scan, find the transmitting mode at the lowest channel is the worst case.
Test Voltage:	AC 120V/60Hz
Test Results:	Pass



Measurement Data



Remark:

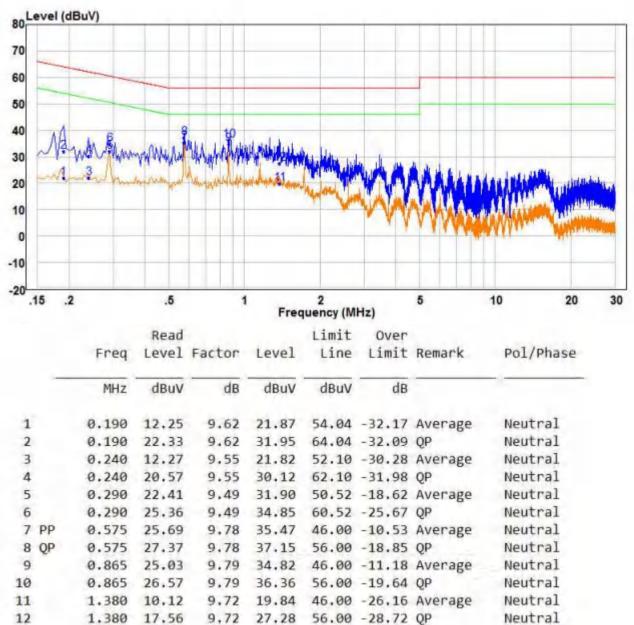
1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:



Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



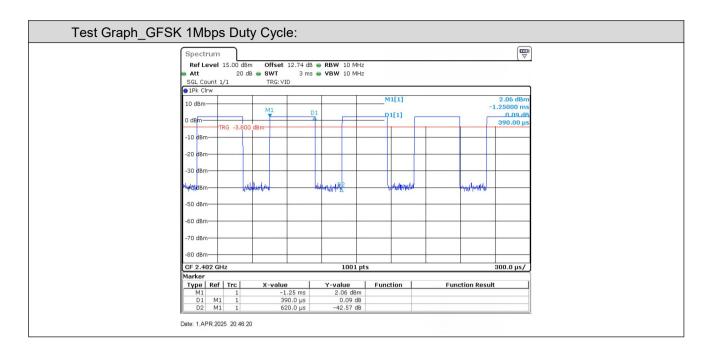
5.3 Conducted Peak Output Power

Test Requirement:	47 CF	47 CFR Part 15C Section 15.247 (b)(3)					
Test Method:	ANSI	ANSI C63.10 2013					
Test Setup:	EUT Spectrum Attenuator Analyzer						
Limit:	30dBr	30dBm					
Test Mode:	Transmitting with GFSK modulation.						
Test Results:	Pass	Pass					
Operated Mode for W	orst Dut	ty Cycle:					
Test Mode		On time [Ton] (ms)	Period [Ttotal] ms)	Duty Cycle(%)	Average correction factor(dB)		
GFSK 1Mbps		0.39	0.62	62.90	2.01		

Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 * log(1/ Duty cycle);



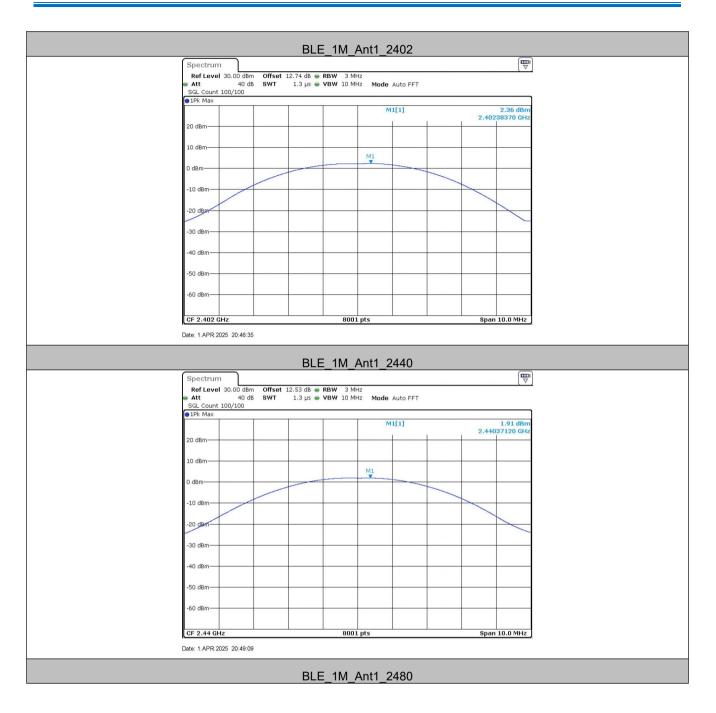




Measurement Data

GFSK mode (1Mbps)							
Test channel Peak Output Power (dBm) Limit (dBm) Result							
Lowest	2.36	30.00	Pass				
Middle	1.91	30.00	Pass				
Highest	2.40	30.00	Pass				







Ref Level 30.00 dBm Att 40 dB SGL Count 100/100	VBW 10 MHz Mo	de Auto FFT		
SGL Count 100/100				
		M1[1]	2.4	2.40 dBm 7973250 GHz
20 dBm				
10 dBm				_
0 dBm	 M1			
-10 dBm				
-20 d8m				
-30 dBm				~
-40 dBm				
-++0 UBII				
-50 dBm				
-60 dBm				



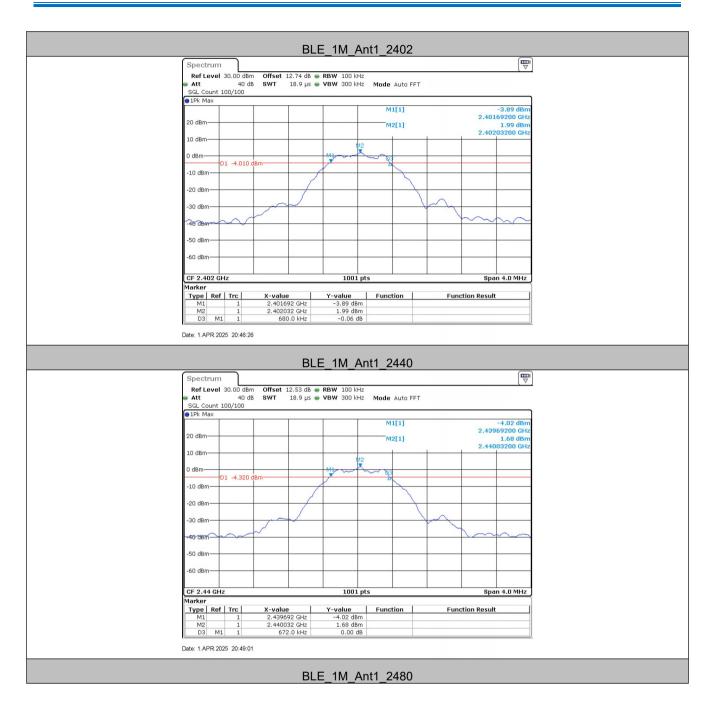
5.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)					
Test Method:	ANSI C63.10 2013					
Test Setup:	EUT Attenuator Spectrum Attenuator Analyzer Remark: Offset=Cable loss+ attenuation factor.					
Limit:	≥ 500 kHz					
Instruments Used:	Refer to section 4.11 for details.					
Test Results:	Pass					

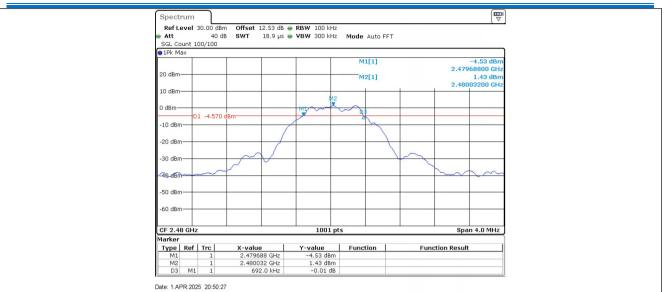
Measurement Data

GFSK mode (1Mbps)								
Test channel	Test channel 6dB Occupy Bandwidth (MHz) Limit (kHz)							
Lowest	0.68	≥500	Pass					
Middle	0.67	≥500	Pass					
Highest	0.69	≥500	Pass					











5.5 Power Spectral Density

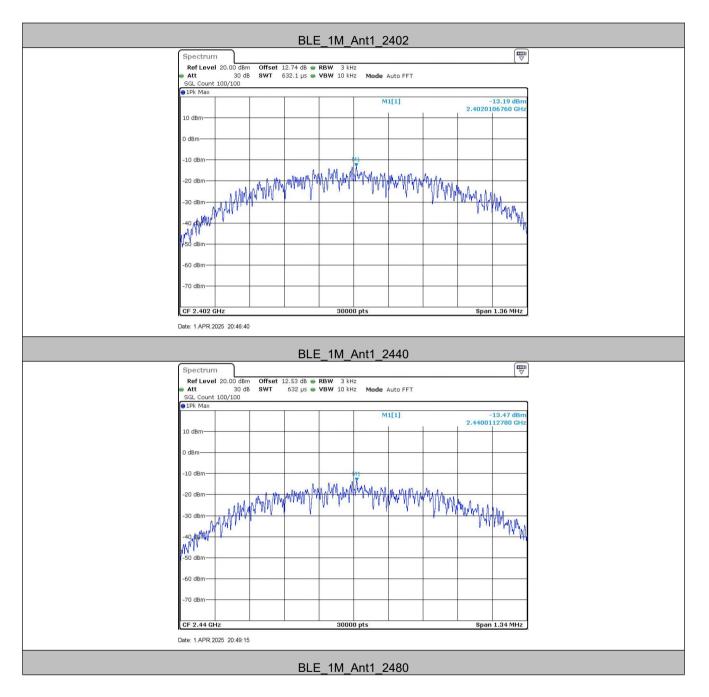
Test Requirement:	47 CFR Part 15C Section 15.247 (e)			
Test Method:	ANSI C63.10 2013			
Test Setup:	EUT Spectrum Attenuator Analyzer Remark: Offset=Cable loss+ attenuation factor.			
Limit:	≤8.00dBm/3kHz			
Test Mode:	Transmitting with GFSK modulation.			
Test Results:	Pass			

Measurement Data

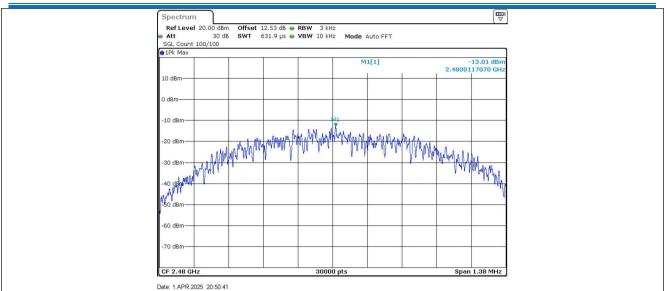
GFSK mode (1Mbps)					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-13.19	≤8.00	Pass		
Middle	-13.47	≤8.00	Pass		
Highest	-13.01	≤8.00	Pass		



Test plot as follows:









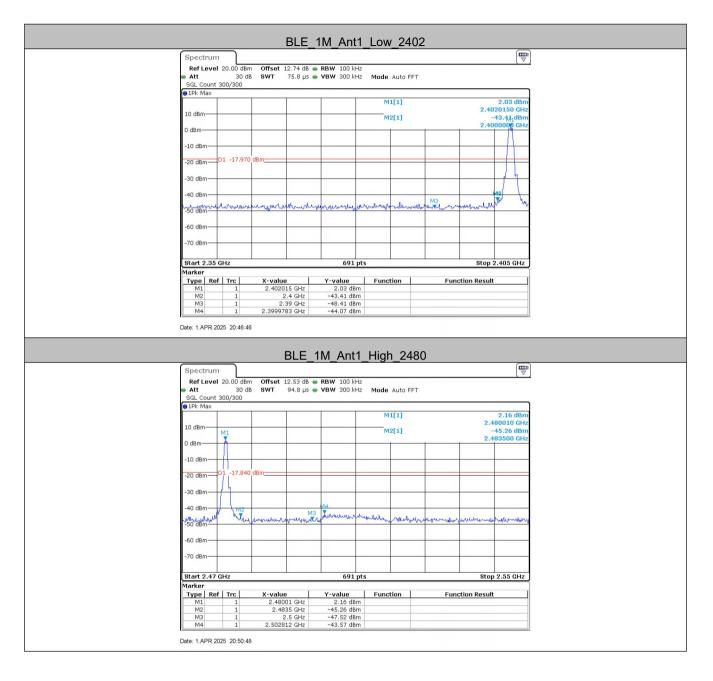
5.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10 2013			
Test Setup:	EUT Spectrum Attenuator Analyzer Remark: Offset=Cable loss+ attenuation factor.			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test Mode:	Transmitting with GFSK modulation.			
Test Results:	Pass			

TestMode	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	Low	2402	2.03	-44.07	≤-17.97	PASS
BLE_1M	High	2480	2.16	-43.57	≤-17.84	PASS



Test plot as follows:



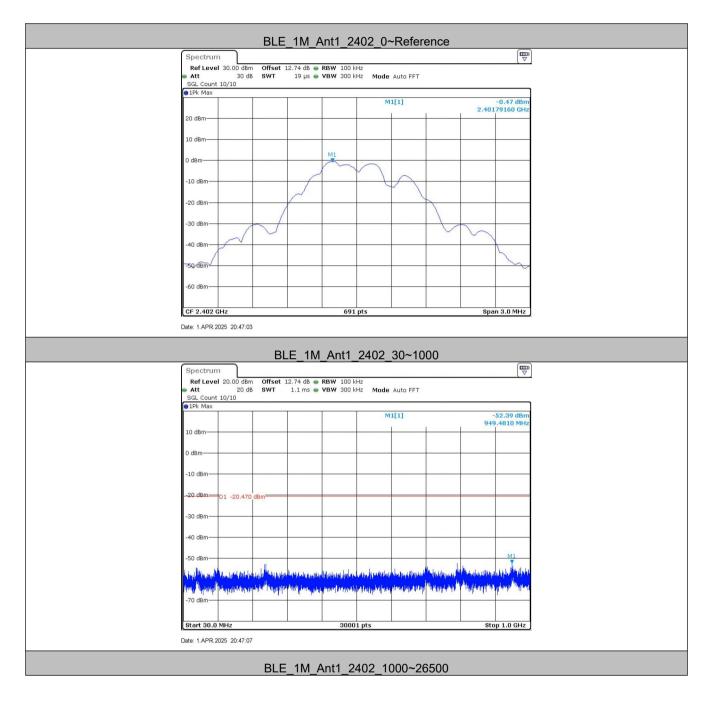


5.7 Spurious RF Conducted Emissions

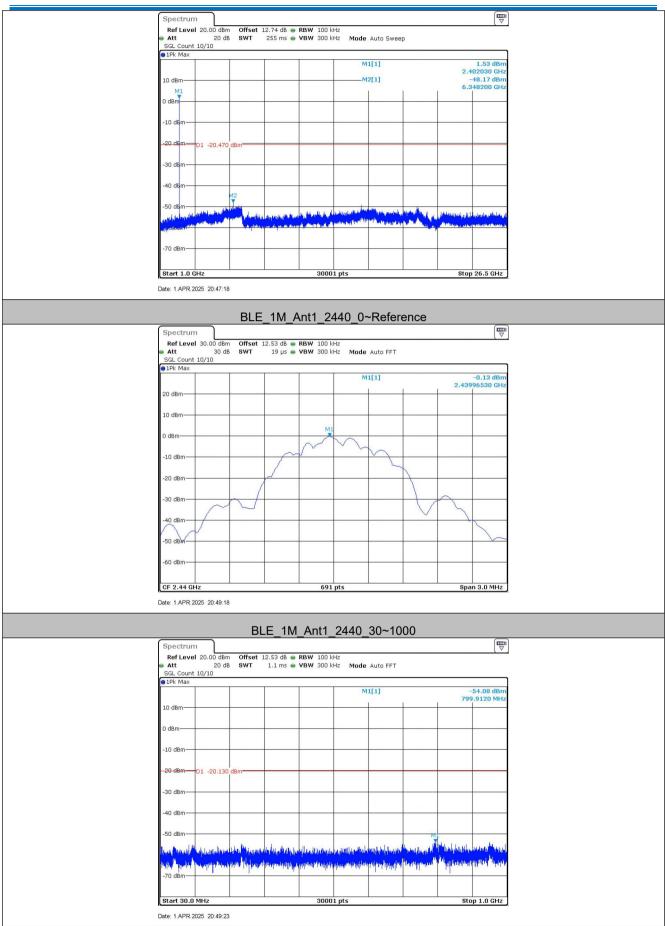
Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10 2013			
Test Setup:	EUT Spectrum Attenuator Analyzer Remark: Offset=Cable loss+ attenuation factor.			
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.			
Test Mode:	Transmitting with GFSK modulation.			
Test Results:	Pass			



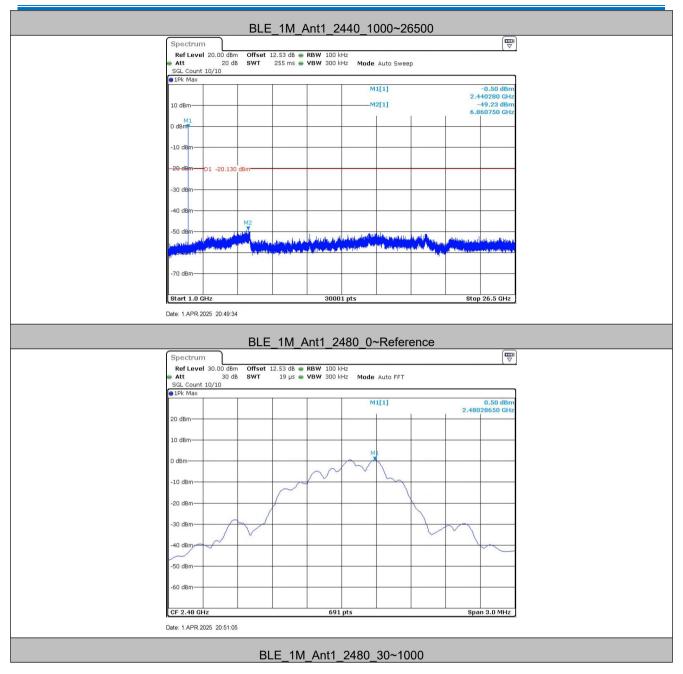
Test plot as follows:





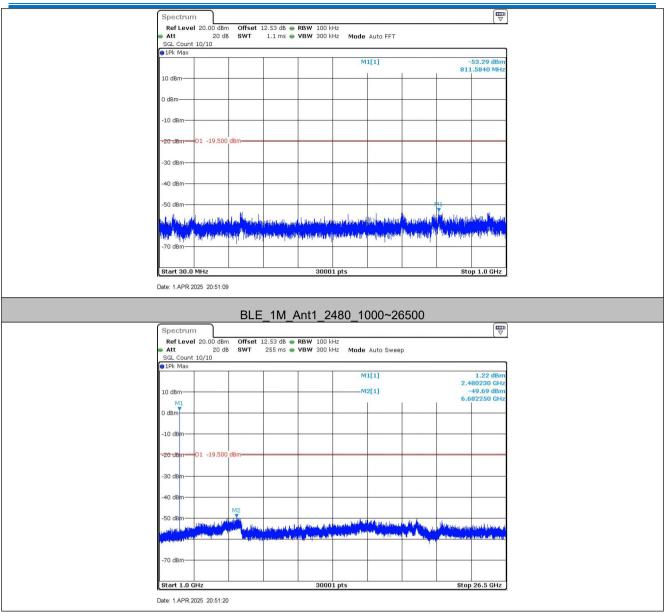








Report No.: CQASZ20250300652E-01



Remark:

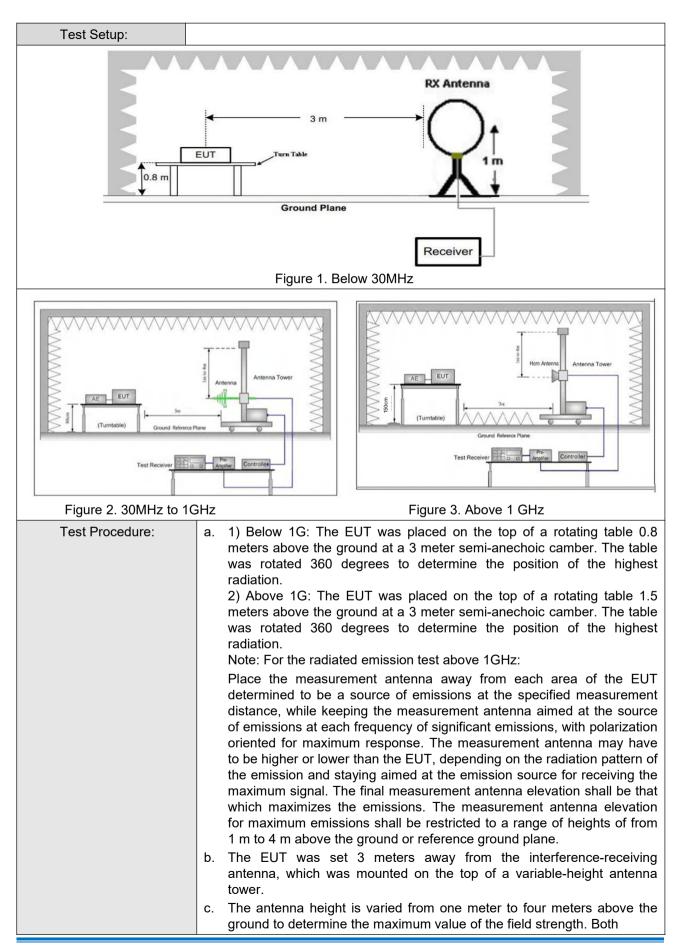
Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



5.8 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10 2013					
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)					
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz		Peak	10kHz	z 30kHz	Peak
	0.009MHz-0.090MH	0.009MHz-0.090MHz		10kHz	z 30kHz	Average
	0.090MHz-0.110MH	0.090MHz-0.110MHz		10kHz	z 30kHz	Quasi-peak
	0.110MHz-0.490MH	0.110MHz-0.490MHz		10kHz	z 30kHz	Peak
	0.110MHz-0.490MH	0.110MHz-0.490MHz Average		10kHz	z 30kHz	Average
	0.490MHz -30MHz	lz -30MHz Quasi-peal		10kHz	z 30kHz	Quasi-peak
	30MHz-1GHz		Quasi-peak 100 kH		lz 300kHz	Quasi-peak
	Above 1GHz		Peak	1MHz	3MHz	Peak
			Peak	1MHz	10Hz	Average
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (m
	0.009MHz-0.490MHz	2400/F(kHz)		-	-	300
	0.490MHz-1.705MHz	00MHz-1.705MHz 24000/F(kHz)		-	-	30
	1.705MHz-30MHz	30		-	-	30
	30MHz-88MHz	100		40.0	Quasi-peak	3
	88MHz-216MHz	150		43.5	Quasi-peak	3
	216MHz-960MHz	200		46.0	Quasi-peak	3
	960MHz-1GHz	500		54.0	Quasi-peak	3
	Above 1GHz	500		54.0	Average	3
	Note: 15.35(b), 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. This peak limit applies to the total peak emission level radiated by the device.					



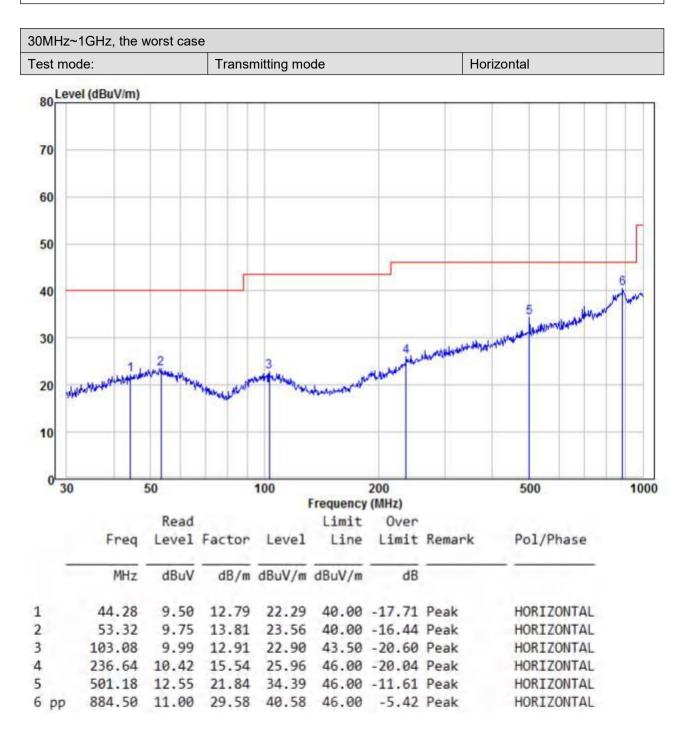




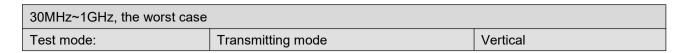
	horizontal and vertical polarizations of the antenna are set to make the measurement.			
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.			
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.			
	f. 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.			
	 g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) 			
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.			
	i. Repeat above procedures until all frequencies measured was complete.			
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode.			
Final Test Mode:	Through Pre-scan, find the 1Mbps of data type and GFSK modulation is the worst case.			
	For below 1GHz part, through pre-scan, the worst case is the highest channel.			
	Only the worst case is recorded in the report.			
Test Results:	Pass			

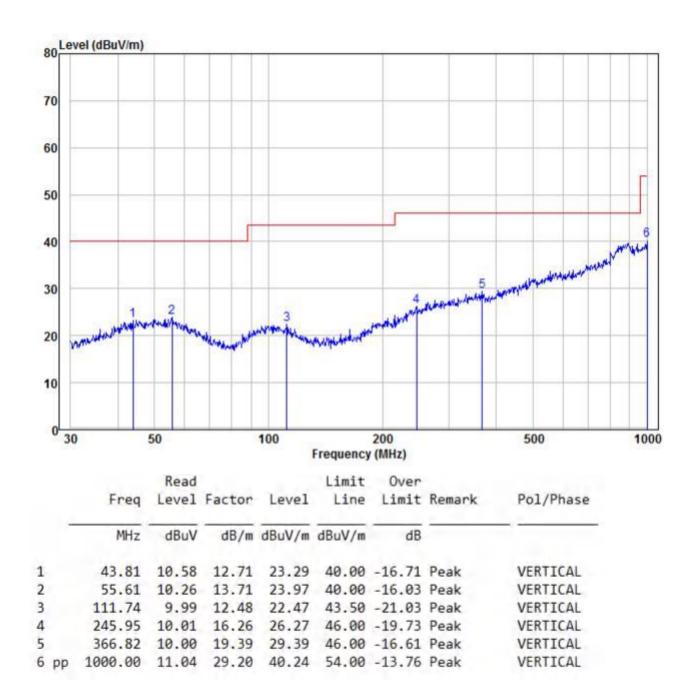


Radiated Emission below 1GHz











Transmitter Emission above 1GHz

Worse case mode:		GFSK(1Mbps)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	54.83	-9.2	45.63	74	-28.37	Peak	Н
2400	56.68	-9.39	47.29	74	-26.71	Peak	Н
4804	53.57	-4.33	49.24	74	-24.76	Peak	Н
7206	49.42	1.01	50.43	74	-23.57	Peak	Н
2390	53.34	-9.2	44.14	74	-29.86	Peak	V
2400	52.10	-9.39	42.71	74	-31.29	Peak	V
4804	53.52	-4.33	49.19	74	-24.81	Peak	V
7206	51.00	1.01	52.01	74	-21.99	Peak	V

Worse case mode:		GFSK(1Mbps)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4880	50.35	-4.11	46.24	74	-27.76	peak	Н
7320	50.37	1.51	51.88	74	-22.12	peak	Н
4880	51.77	-4.11	47.66	74	-26.34	peak	V
7320	49.31	1.51	50.82	74	-23.18	peak	V

Worse case mode:		GFSK(1Mbps)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	56.74	-9.29	47.45	74	-26.55	Peak	Н
4960	51.31	-4.04	47.27	74	-26.73	Peak	Н
7440	49.97	1.57	51.54	74	-22.46	Peak	Н
2483.5	55.62	-9.29	46.33	74	-27.67	Peak	V
4960	52.20	-4.04	48.16	74	-25.84	Peak	V
7440	50.90	1.57	52.47	74	-21.53	Peak	V

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission

9kHz~30MHz:

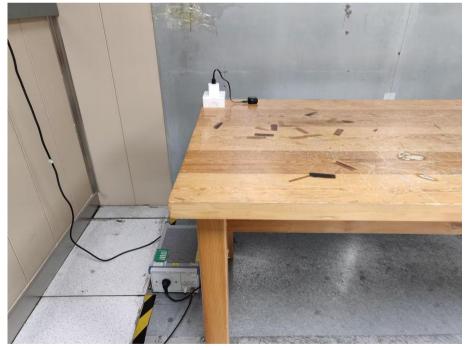






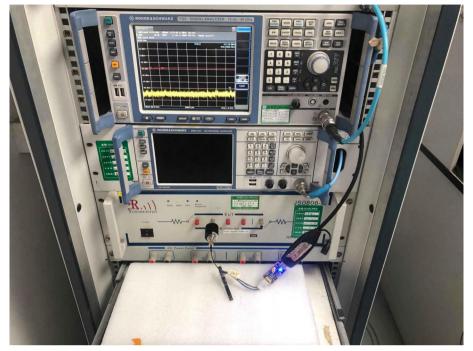


6.2 Conducted Emissions Test Setup





6.3 RF Conducted measurement







7 Photographs - EUT Constructional Details



























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*** END OF REPORT ***