

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

Telephone: +86-755-26648640 Fax: +86-755-26648637

Website: www.cqa-cert.com Report Template Revision Date: 2021-11-03

Report Template Version: V05

Test Report

Report No.: CQASZ20250300460E

Applicant: Shenzhen DO Intelligent Technology Co., Ltd

Address of Applicant: 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua

District, Shenzhen, China

Equipment Under Test (EUT):

Product: Smart Watch

Model No.: Bright
Test Model No.: Bright
Brand Name: IDO

FCC ID: 2AHFT8037

Standards: 47 CFR Part 15, Subpart C

KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

Date of Receipt: 2025-03-06

Date of Test: 2025-03-06 to 2025-03-17

Date of Issue: 2025-4-6
Test Result: PASS*

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

lewis 2h0u
Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By: (Jack Ai)





Report No.: CQASZ20250300460E

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250300460E	Rev.01	Initial report	2025-4-6





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



3 Contents

	Page
1 VERSION	2
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	
4.1 CLIENT INFORMATION	5
4.2 GENERAL DESCRIPTION OF EUT	5
4.3 ADDITIONAL INSTRUCTIONS	7
4.4 TEST ENVIRONMENT	
4.5 DESCRIPTION OF SUPPORT UNITS	
4.6 STATEMENT OF THE MEASUREMENT UNCERTAINTY	
4.7 TEST LOCATION	
4.8 TEST FACILITY	
4.9 DEVIATION FROM STANDARDS	
4.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER	
4.11 EQUIPMENT LIST	
5 TEST RESULTS AND MEASUREMENT DATA	
5.1 Antenna Requirement	12
5.2 CONDUCTED EMISSIONS	13
5.3 CONDUCTED PEAK OUTPUT POWER	
5.4 6dB Occupy Bandwidth	
5.5 POWER SPECTRAL DENSITY	
5.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
5.7 Spurious RF Conducted Emissions	
5.8 RADIATED SPURIOUS EMISSION & RESTRICTED BANDS	
5.8.1 Spurious Emissions	
6 PHOTOGRAPHS - EUT TEST SETUP	43
6.1 RADIATED SPURIOUS EMISSION	
6.2 CONDUCTED EMISSIONS TEST SETUP	44
7 DUOTOGDADUS - ELIT CONSTDUCTIONAL DETAILS	15



4 General Information

4.1 Client Information

Applicant:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Applicant:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Manufacturer:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Manufacturer:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China
Factory:	Shenzhen DO Intelligent Technology Co., Ltd
Address of Factory:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China

4.2 General Description of EUT

•	
Product Name:	Smart Watch
Model No.:	Bright
Test Model No.:	Bright
Trade Mark:	IDO
Software Version:	V1.1.2
Hardware Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.3
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☑ Portable
Test Software of EUT:	FCC
Antenna Type:	FPC antenna
Antenna Gain:	-1.02dBi
EUT Power Supply:	lithium battery : 3.8V 300mAh 1.14Wh, Charge by DC 5V for adapter
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.
	⊠ Simultaneous TX is not supported.



Report No.: CQASZ20250300460E

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

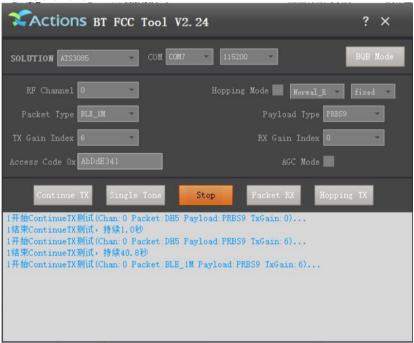


Report No.: CQASZ20250300460E

4.3 Additional Instructions

EUT Test Software Settings:						
Mode:		 Special software is used. ☐ Through engineering command into the engineering mode. engineering command: *#*#3646633#*#* 				
EUT Power level:	Class2 (Power level is built-in set para selected)	Class2 (Power level is built-in set parameters and cannot be changed and selected)				
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.						
Mode	Mode Channel Frequency(MHz)					
	CH0 2402					
GFSK	GFSK CH19 2440					
	CH39 2480					

Run Software:





Report No.: CQASZ20250300460E

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	/sue	1	CQA
2) Cable				
Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by





4.6 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.** guality 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.

Hereafter the best measurement capability for CQA laboratory is reported:

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℃
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz



Report No.: CQASZ20250300460E

4.7 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

4.8 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

4.9 Deviation from Standards

None.

4.10 Other Information Requested by the Customer

None.



4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	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

Test software:

	Manufacturer	Software brand	Software 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 FPC antenna.

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

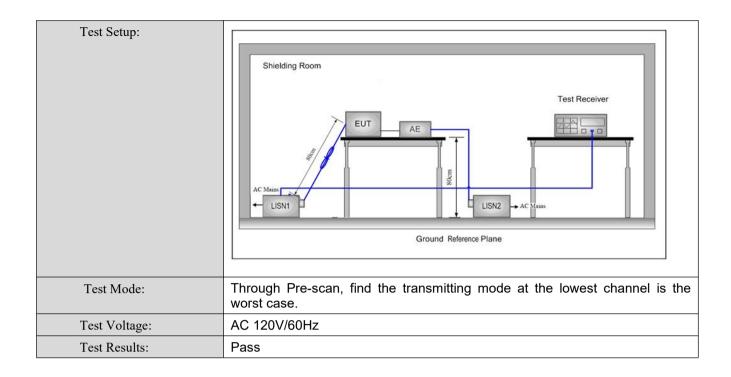


Report No.: CQASZ20250300460E

5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:	E (MIL)	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 o	f the frequency.					
Test Procedure:	The mains terminal disturl room.	bance voltage test was	s conducted in a shie	elded			
	The EUT was connected to Impedance Stabilization N	•	•	near			
	impedance. The power cal	oles of all other units of	the EUT were				
	connected to a second LIS		•				
	reference plane in the sam	•	•				
	measured. A multiple sock	·	·				
	power cables to a single Li exceeded.	ISN provided the rating	of the LISN was not				
	3) The tabletop EUT was place	ced upon a non-metallio	c table 0.8m above th	ne			
	ground reference plane. A	•	rangement, the EUT	was			
	placed on the horizontal gr 4) The test was performed wi	•	oronco plano. The re	or			
	of the EUT shall be 0.4 m	•	•				
	vertical ground reference p	•	·	10			
	reference plane. The LISN		•	he			
	unit under test and bonded	I to a ground reference	plane for LISNs				
	mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units						
	the EUT and associated ed	• •		2.			
	5) In order to find the maximu		•	to			
	equipment and all of the interface cables must be changed according to						
	ANSI C63.10: 2013 on conducted measurement.						



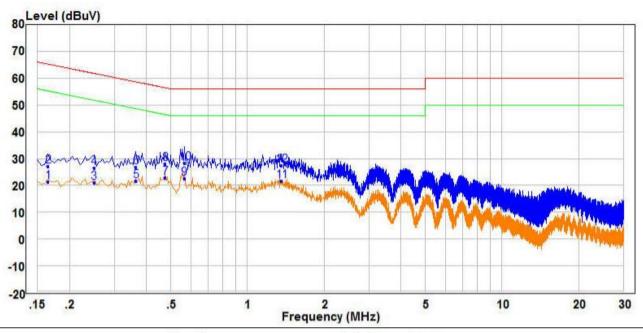




1#

Measurement Data

Live line:

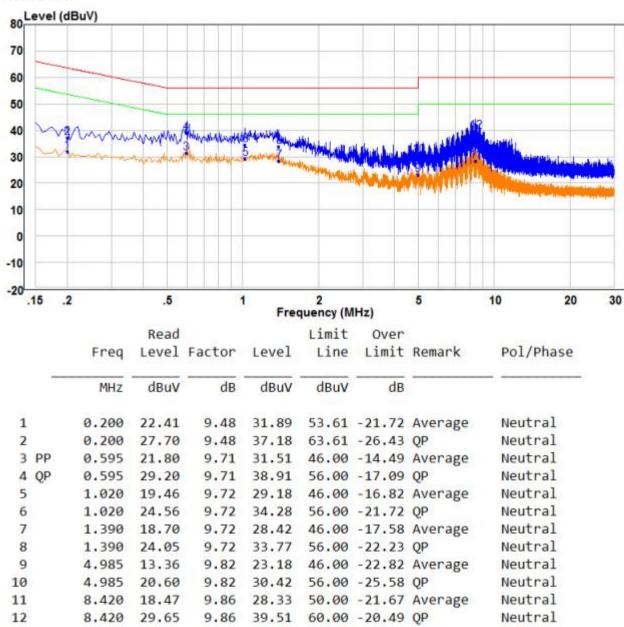


		even	Read			Limit	Over	Barrier I.	0-1/01
		Freq	rever	Factor	Level	Line	Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.165	11.80	9.67	21.47	55.21	-33.74	Average	Line
2		0.165	17.35	9.67	27.02	65.21	-38.19	QP	Line
3		0.250	11.37	9.55	20.92	51.76	-30.84	Average	Line
4 5		0.250	17.11	9.55	26.66	61.76	-35.10	QP	Line
5		0.365	11.99	9.57	21.56	48.61	-27.05	Average	Line
6		0.365	17.31	9.57	26.88	58.61	-31.73	QP	Line
7		0.475	13.16	9.68	22.84	46.43	-23.59	Average	Line
8		0.475	18.35	9.68	28.03	56.43	-28.40	QP	Line
9	PP	0.565	12.91	9.77	22.68	46.00	-23.32	Average	Line
10	QP	0.565	18.46	9.77	28.23	56.00	-27.77	QP	Line
11		1.360	11.16	10.56	21.72	46.00	-24.28	Average	Line
12		1.360	16.74	10.56	27.30	56.00	-28.70	QP	Line

- 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:



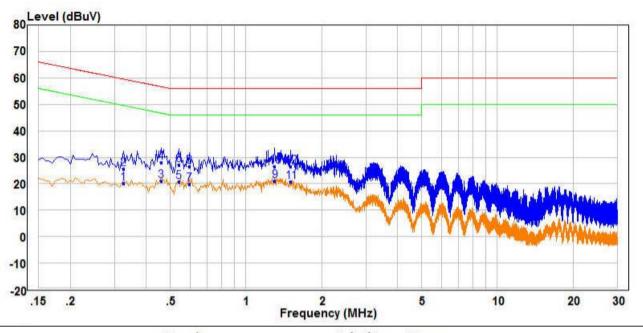
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



2#

Measurement Data

Live line:

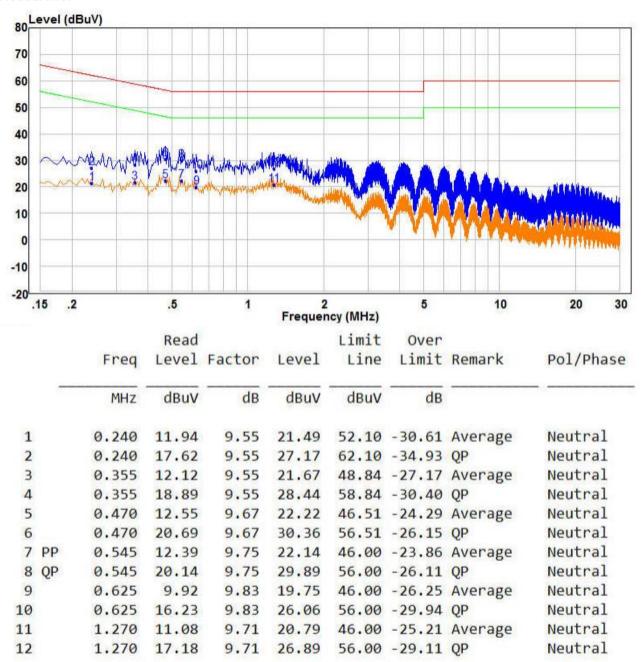


		Enca	Read	Factor	Level	Limit	Over	Remark	Pol/Phase
		Freq	rever	Factor	rever	Line	LIMIT	Remark	POI/Phase
	-	MHz	dBuV	dB	dBuV	dBuV	dB		1/2
1		0.325	10.56	9.52	20.08	49.58	-29.50	Average	Line
2		0.325	16.05	9.52	25.57	59.58	-34.01	QP	Line
3		0.460	11.31	9.67	20.98	46.69	-25.71	Average	Line
4	QP	0.460	18.36	9.67	28.03	56.69	-28.66	QP	Line
5		0.540	10.90	9.74	20.64	46.00	-25.36	Average	Line
6		0.540	17.39	9.74	27.13	56.00	-28.87	QP	Line
7		0.595	10.18	9.80	19.98	46.00	-26.02	Average	Line
8		0.595	16.66	9.80	26.46	56.00	-29.54	QP	Line
9	PP	1.300	10.71	10.44	21.15	46.00	-24.85	Average	Line
10		1.300	16.17	10.44	26.61	56.00	-29.39	QP	Line
11		1.510	9.92	10.86	20.78	46.00	-25.22	Average	Line
12		1.510	15.67	10.86	26.53	56.00	-29.47	QP	Line

- 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.



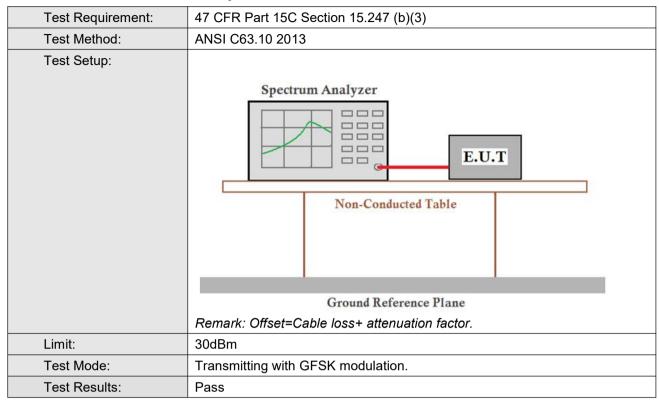
Neutral line:



- 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.



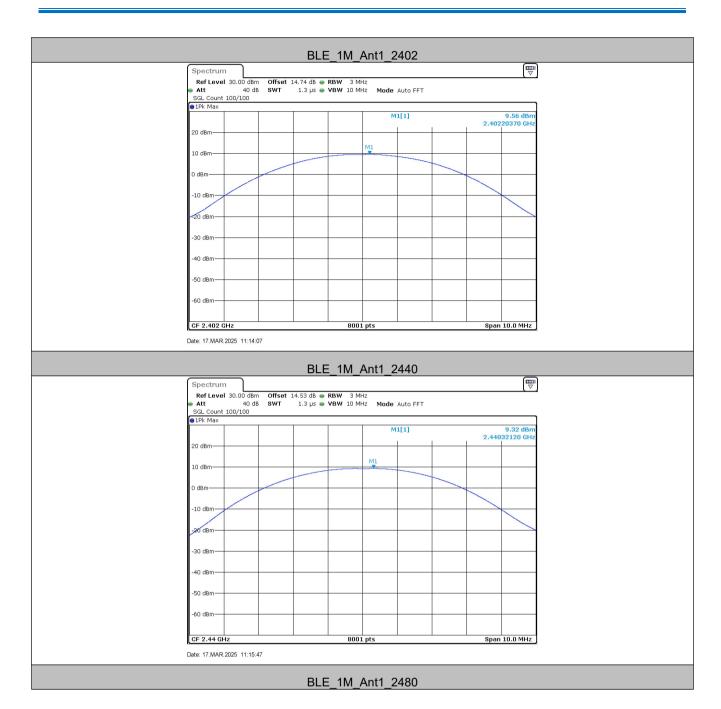
5.3 Conducted Peak Output Power



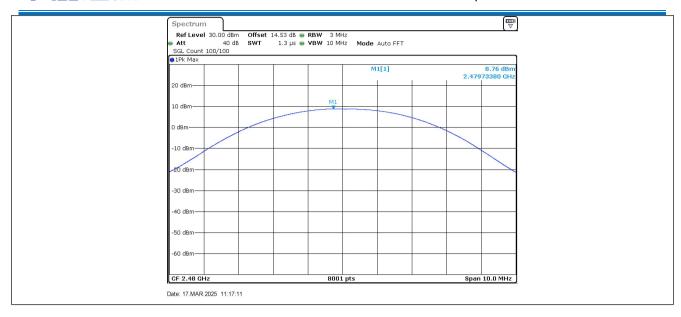
Measurement Data

GFSK mode (1Mbps)								
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	9.56	30.00	Pass					
Middle	9.32	30.00	Pass					
Highest	8.76	30.00	Pass					



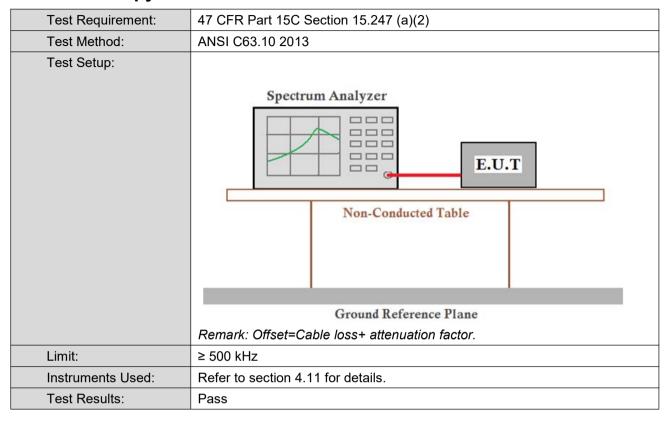








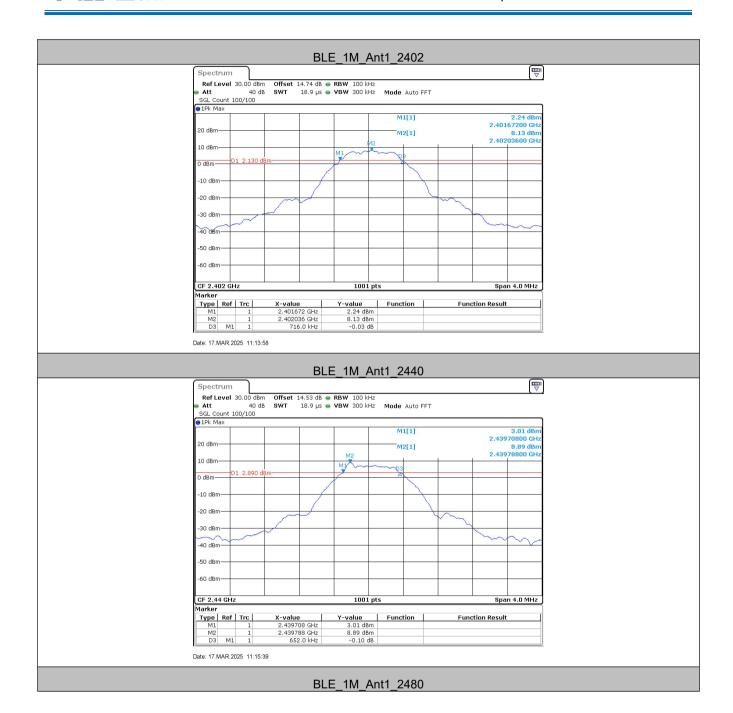
5.4 6dB Occupy Bandwidth



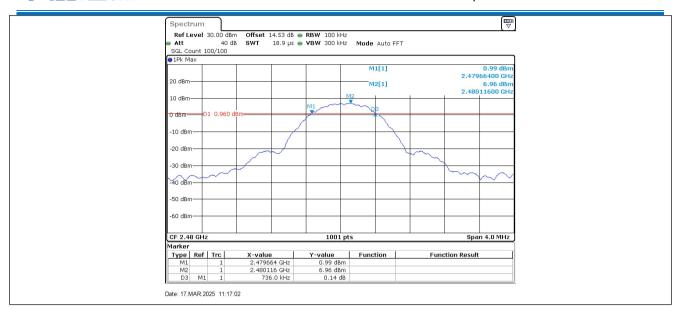
Measurement Data

GFSK mode (1Mbps)								
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result					
Lowest	0.72	≥500	Pass					
Middle	0.65	≥500	Pass					
Highest	0.74	≥500	Pass					



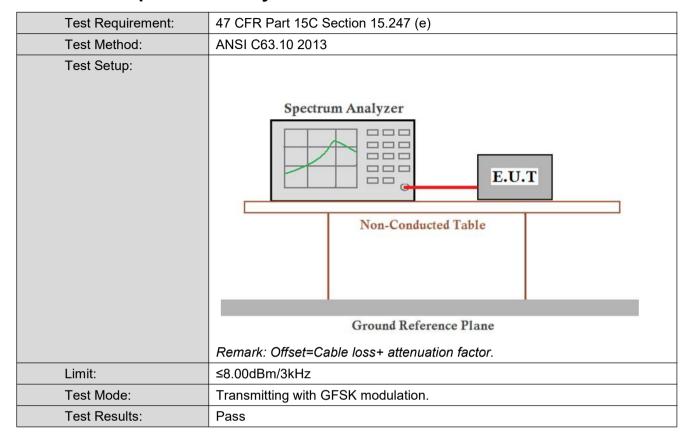








5.5 Power Spectral Density

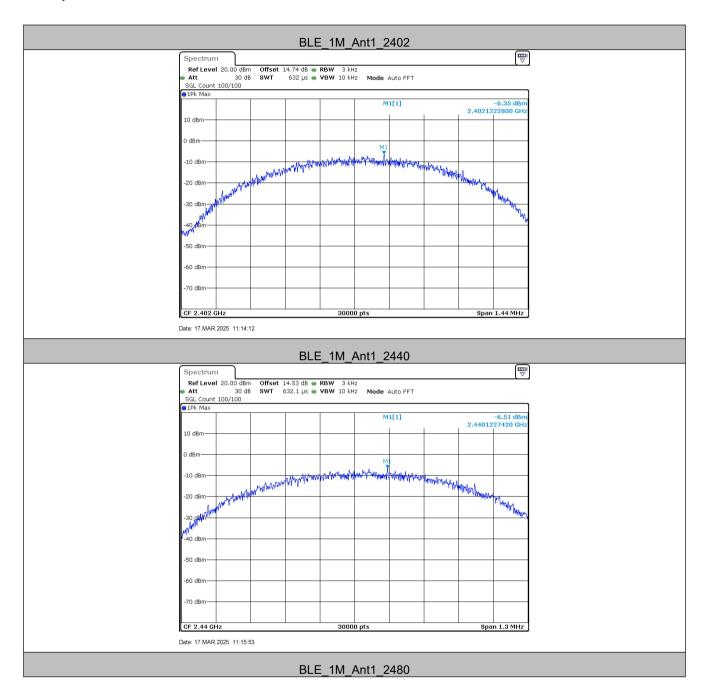


Measurement Data

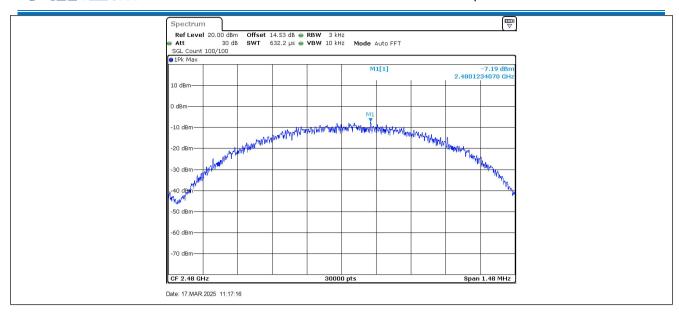
GFSK mode (1Mbps)								
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result					
Lowest	-6.35	≤8.00	Pass					
Middle	-6.51	≤8.00	Pass					
Highest	-7.19	≤8.00	Pass					



Test plot as follows:



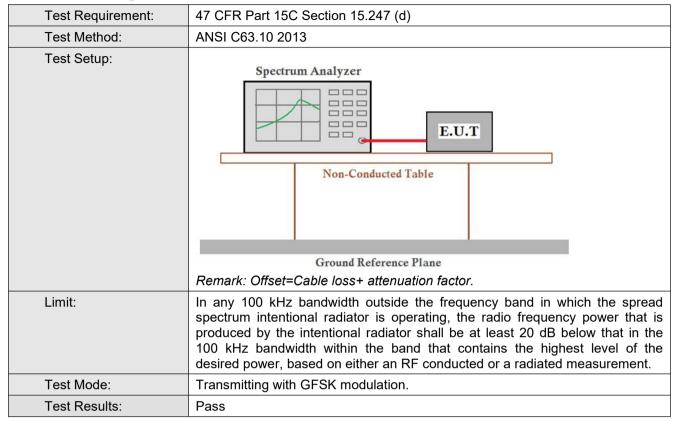






Report No.: CQASZ20250300460E

5.6 Band-edge for RF Conducted Emissions

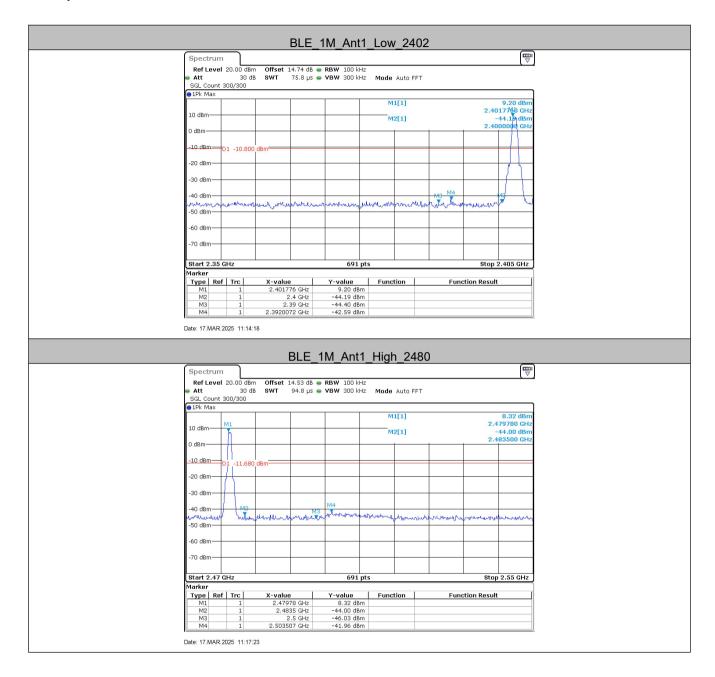


TestMode	ode ChName Freq(MHz) RefLevel[dBm]		Result[dBm]	Limit[dBm]	Verdict	
	Low	2402	9.20	-42.59	≤-10.8	PASS
BLE_1M	High	2480	8.32	-41.96	≤-11.68	PASS



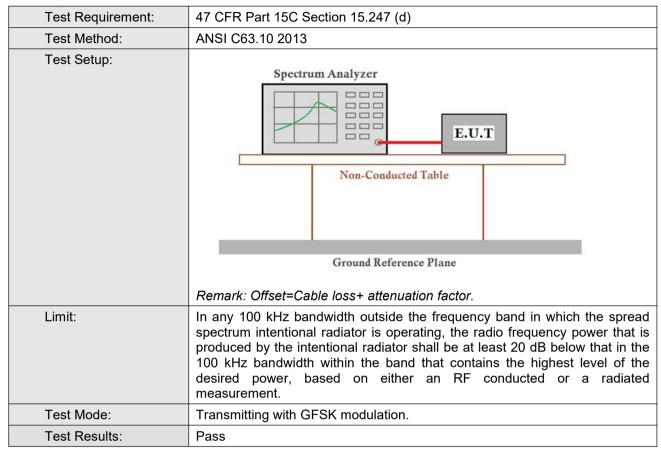
Report No.: CQASZ20250300460E

Test plot as follows:



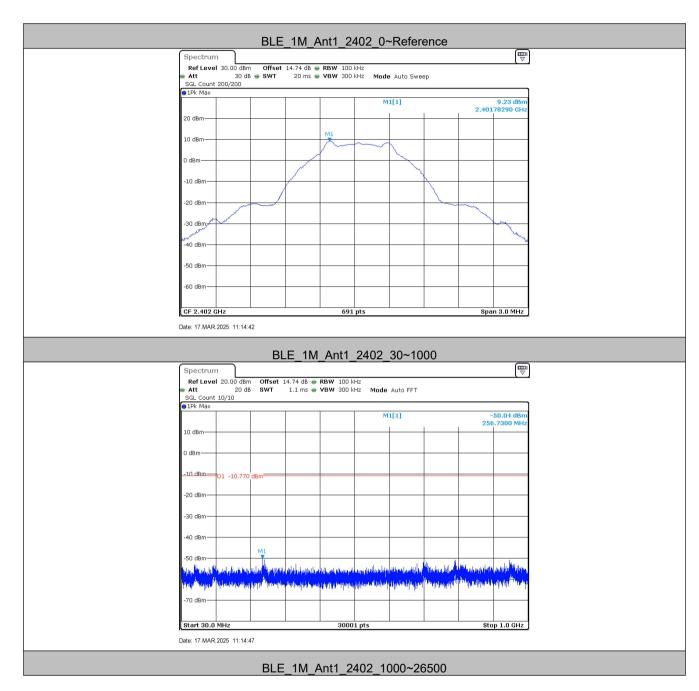


5.7 Spurious RF Conducted Emissions

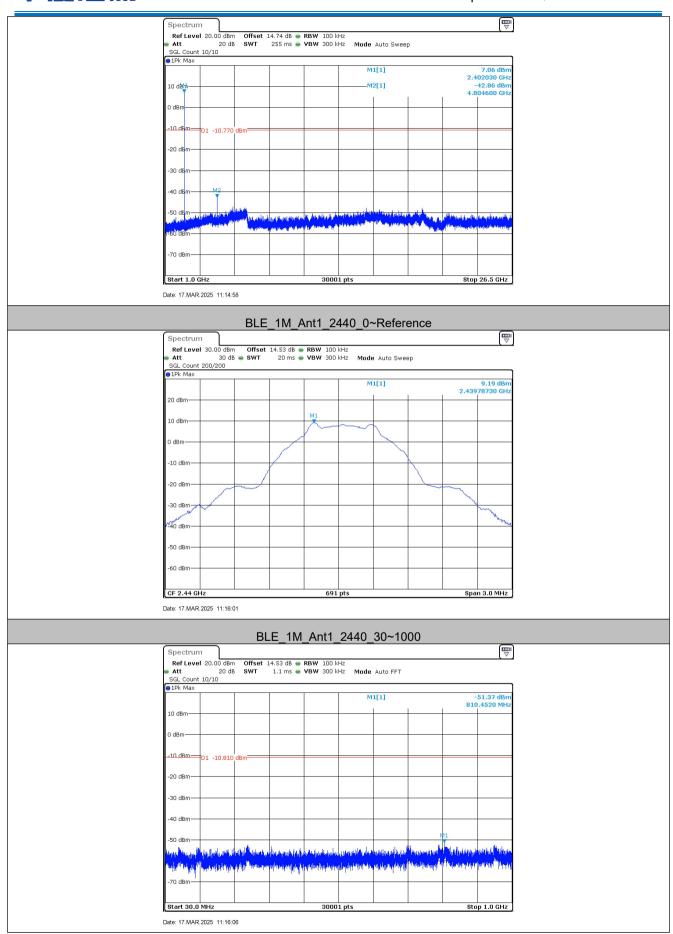




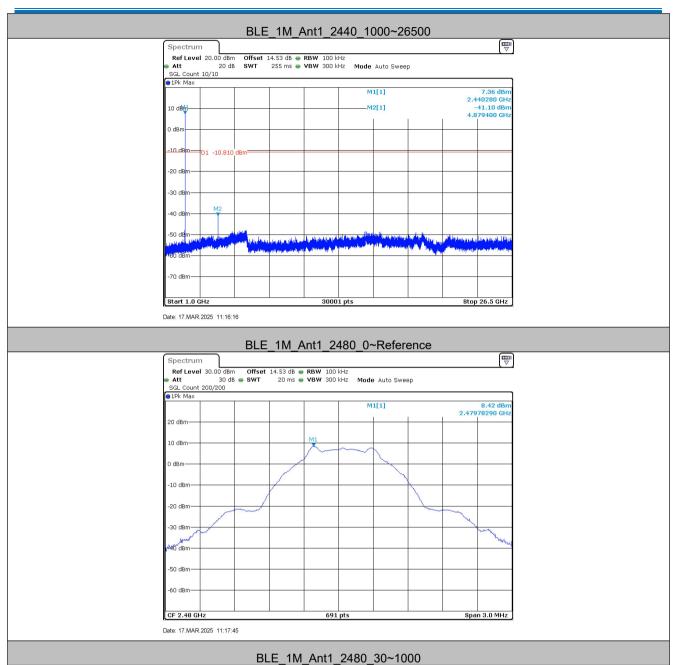
Test plot as follows:





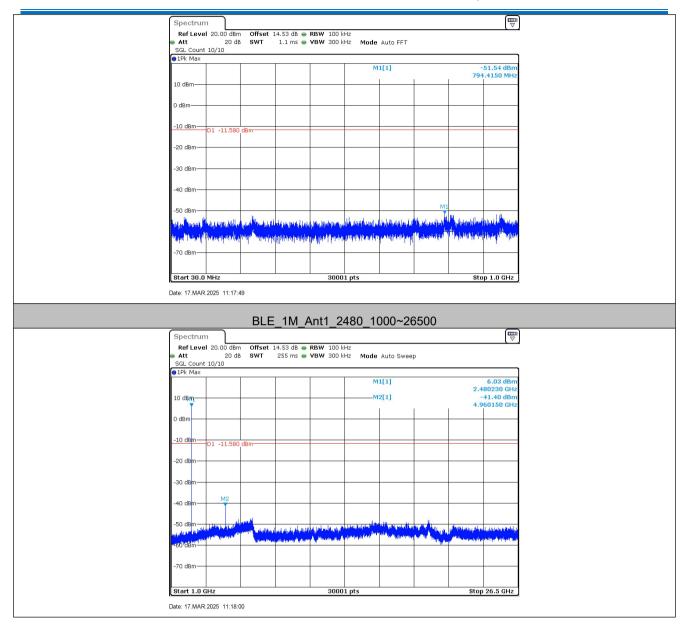








Report No.: CQASZ20250300460E



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

5.8.1 Spurious Emissions									
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10 2013								
Test Site:	Measurement Distance	: 3m	ı (Semi-Anech	noic Cham	ber)				
Receiver Setup:	Frequency		Detector	RBW		VBW	Remark		
	0.009MHz-0.090MH	z	Peak	10kHz	<u>z</u>	30kHz	Peak		
	0.009MHz-0.090MH	z	Average	10kHz	<u>z</u>	30kHz	Average		
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	<u>z</u>	30kHz	Quasi-peak		
	0.110MHz-0.490MH	Z	Peak	10kHz	<u>z</u>	30kHz	Peak		
	0.110MHz-0.490MH	z	Average	10kHz	7	30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	7	30kHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	100 kH	lz (300kHz	Quasi-peak			
	Above 1GHz		Peak	1MHz		3MHz	Peak		
	Above IGHZ		Peak	1MHz	<u>.</u>	10Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	R	Remark	Measuremen distance (m		
	0.009MHz-0.490MHz	2	400/F(kHz)	-		-	300		
	0.490MHz-1.705MHz	24	1000/F(kHz)	-		-	30		
	1.705MHz-30MHz		30	-		-	30		
	30MHz-88MHz		100	40.0	Qua	asi-peak	3		
	88MHz-216MHz		150	43.5	Qua	asi-peak	3		
	216MHz-960MHz		200	46.0	Qua	asi-peak	3		
	960MHz-1GHz	500	54.0	Qua	asi-peak	3			
	Above 1GHz 500 54.0 Average 3						3		
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	20d quip	IB above the oment under t	maximum est. This p	perm	nitted ave	erage emission		





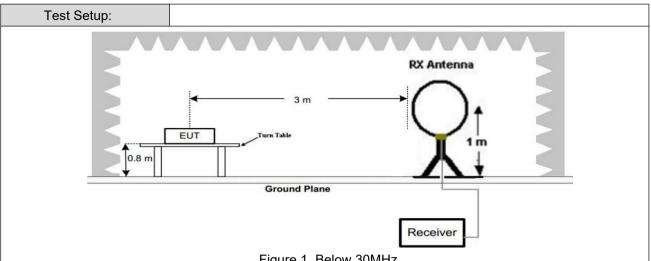
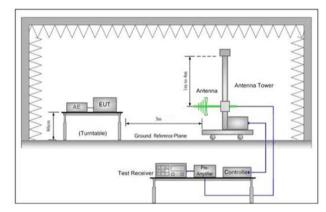


Figure 1. Below 30MHz



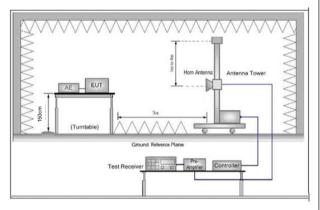


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna 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 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.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both



	horizontal and vertical polarizations of the antenna are set to make the measurement.
	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

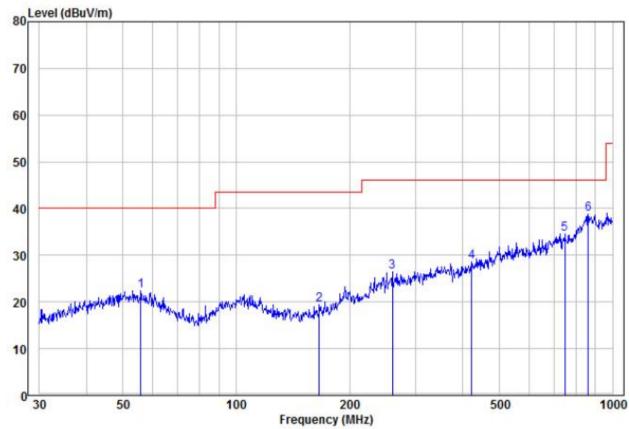




Radiated Emission below 1GHz

1#

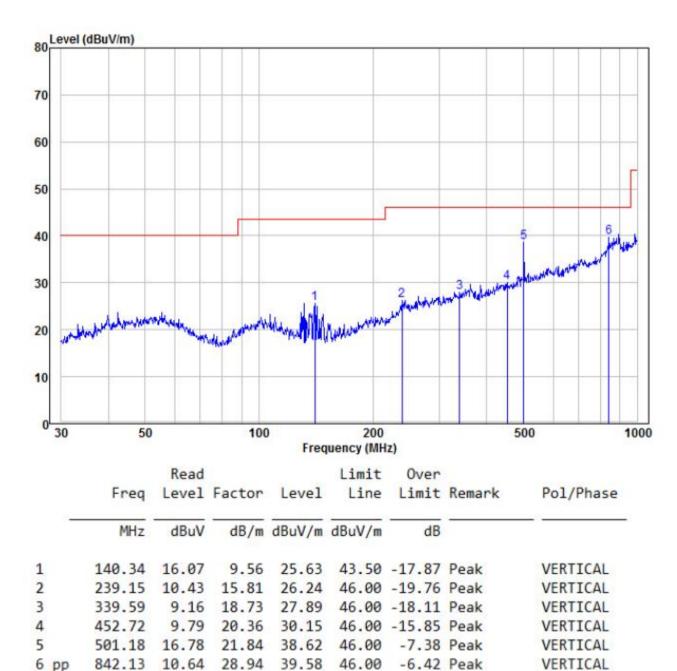
30MHz~1GHz, the worst case					
Test mode:	Transmitting mode		Horizontal		
5. Acc. 14.02.01.000					



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
-	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	55.80	8.74	13.67	22.41	40.00	-17.59	Peak	HORIZONTAL
2	166.07	8.97	10.52	19.49	43.50	-24.01	Peak	HORIZONTAL
3	260.14	9.86	16.65	26.51	46.00	-19.49	Peak	HORIZONTAL
4	422.06	8.94	19.66	28.60	46.00	-17.40	Peak	HORIZONTAL
5	747.48	9.22	25.42	34.64	46.00	-11.36	Peak	HORIZONTAL
6 pp	863.06	9.52	29.25	38.77	46.00	-7.23	Peak	HORIZONTAL



30MHz~1GHz, the worst case		
Test mode:	Transmitting mode	Vertical







2#

