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Test Report

Report No.: CQASZ20241002168E-01

Applicant: Shenzhen Dale Sensor Tech Co Ltd

Address of Applicant: 407, Building 6Qianhai Kexing Science ParkBao'an District, Shenzhen

Equipment Under Test (EUT):

Product: PocketDrum 2 MAX

Model No.: PD02 Max
Test Model No.: PD02 Max
Brand Name: AeroBand

FCC ID: 2BCSTPD02-A

Standards: 47 CFR Part 15, Subpart C

KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

Date of Receipt: 2024-10-12

Date of Test: 2024-10-12 to 2024-10-22

Date of Issue: 2024-11-05
Test Result: PASS*

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

Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:





Report No.: CQASZ20241002168E-01

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20241002168E-01	Rev.01	Initial report	2024-11-05





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:	Shenzhen Dale Sensor Tech Co Ltd
Address of Applicant:	407, Building 6Qianhai Kexing Science ParkBao'an District, Shenzhen
Manufacturer:	Shenzhen Dale Sensor Tech Co Ltd
Address of Manufacturer:	407, Building 6Qianhai Kexing Science ParkBao'an District, Shenzhen
Factory:	Ebulent Optronics (Shenzhen) Ltd., Huizhou Branch
Address of Factory:	701 and 801 of C2-2-1, 702 and 802 of C2-2-2, Qunyi Industrial Park, Zhongkai High-tech District, Huizhou, Guangdong, China

4.2 General Description of EUT

Product Name:	PocketDrum 2 MAX	
Model No.:	PD02 Max	
Test Model No.:	PD02 Max	
Trade Mark:	AeroBand	
Software Version:	V3.0	
Hardware Version:	V2.4	
Operation Frequency:	2402MHz~2480MHz	
Bluetooth Version:	V5.0	
Modulation Type:	GFSK	
Transfer Rate:	1Mbps	
Number of Channel:	40	
Product Type:	☐ Mobile ☐ Portable	
Test Software of EUT:	BLE_DTM_1.2.2	
Antenna Type:	PCB antenna	
Antenna Gain:	ANT1:-5.81 dBi, ANT2:-9.44dBi	
EUT Power Supply:	Li-ion battery: DC 3.7V 600mAh, Charge by DC 5V for adapter	
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.	
	⊠ Simultaneous TX is not supported.	



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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



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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 lo	west frequency, the middle frequency and	d the highest frequency keep				
transmitting of the EUT.						
Mode	Channel	Frequency(MHz)				
	CH0 2402					
GFSK	CH19 2440					
	CH39	2480				

Run Software:





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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.	Model No. Certification	
1	/	/	/	1
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



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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

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	2024/9/2	2025/9/1
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
RF					
cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/9/2	2025/9/1
Antenna Connector	CQA	RFC-01	CQA-080	2024/9/2	2025/9/1
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2024/9/2	2025/9/1
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	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

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

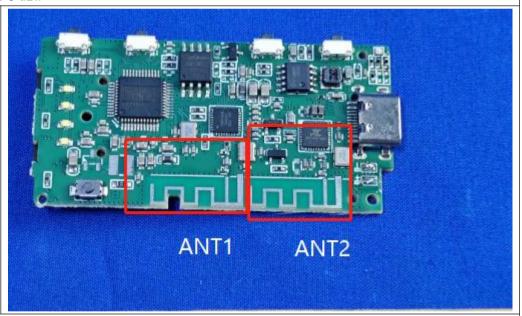
15.203 requirement:

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 PCB 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.

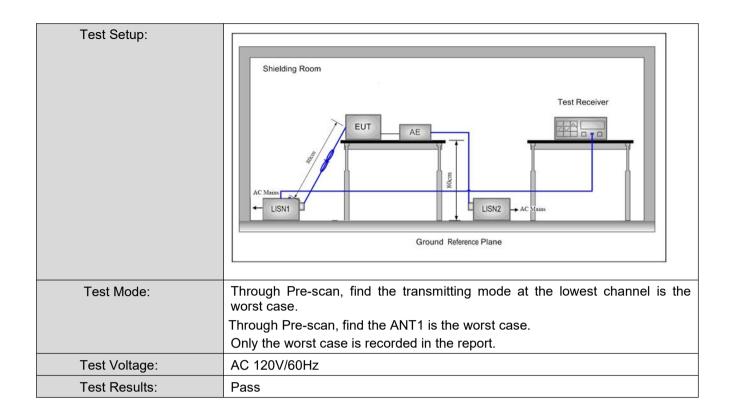


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5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:	Francisco de la (MIIII)	Limit (d	BuV)				
	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	n of the frequency.	J	'			
Test Procedure:	 The mains terminal disturt room. 	bance voltage test was	conducted in a shie	elded			
	2) The EUT was connected to	AC power source thro	ough a LISN 1 (Line				
	Impedance Stabilization N	etwork) which provides	a $50\Omega/50\mu H$ + 5Ω lir	near			
	impedance. The power cal	oles of all other units of	the EUT were				
	connected to a second LISN 2, which was bonded to the ground						
	reference plane in the sam	•	_				
	measured. A multiple sock	·	·				
	power cables to a single LI	ISN provided the rating	of the LISN was not				
	exceeded. 3) The tabletop EUT was place	od upop a pop motalli	s table 0.8m above th	20			
	ground reference plane. A	•					
	placed on the horizontal gr		rangement, the LOT	was			
	4) The test was performed wi	•	erence plane. The re	ar			
	of the EUT shall be 0.4 m t	•	•				
	vertical ground reference plane was bonded to the horizontal ground						
	reference plane. The LISN	1 was placed 0.8 m fro	om the boundary of th	he			
	unit under test and bonded to a ground reference plane for LISNs						
	mounted on top of the ground reference plane. This distance was						
	between the closest points						
	the EUT and associated ed	• •		2.			
	5) In order to find the maximum		•	.			
	equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.						
	ANSI C03. 10: 2013 On CON	iducted measurement.					

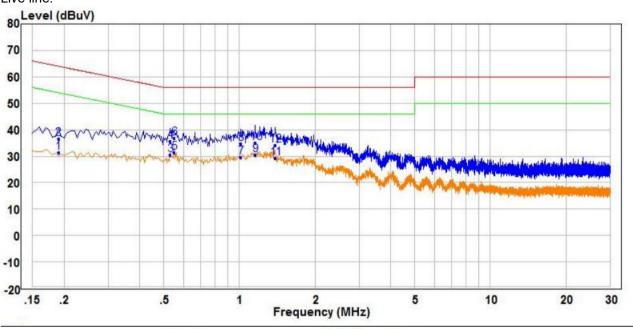






Measurement Data





			Read			Limit	Over		
		Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	-	MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.190	21.69	9.63	31.32	54.04	-22.72	Average	Line
2		0.190	26.81	9.63	36.44	64.04	-27.60	QP	Line
3		0.530	20.76	9.73	30.49	46.00	-15.51	Average	Line
4		0.530	25.80	9.73	35.53	56.00	-20.47	QP	Line
5	PP	0.550	21.66	9.75	31.41	46.00	-14.59	Average	Line
	QP	0.550	27.20	9.75	36.95	56.00	-19.05	QP	Line
7		1.015	19.84	9.74	29.58	46.00	-16.42	Average	Line
8		1.015	25.12	9.74	34.86	56.00	-21.14	QP	Line
9		1.160	20.22	10.12	30.34	46.00	-15.66	Average	Line
10		1.160	24.89	10.12	35.01	56.00	-20.99	QP	Line
11		1.390	18.56	10.62	29.18	46.00	-16.82	Average	Line
12		1.390	23.63	10.62	34.25	56.00	-21.75	QP	Line

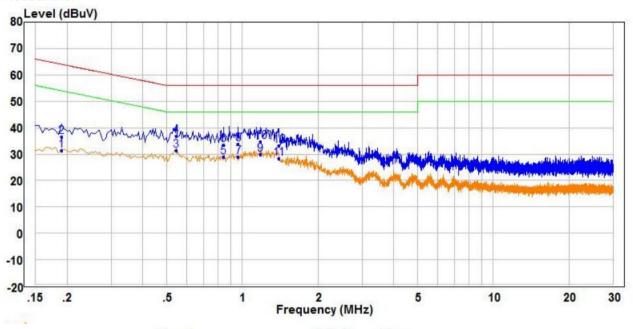
Remark:

- 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.





Neutral line:



			Read			Limit	Over		
		Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	9-	MHZ	dBuV	dB	dBuV	dBuV	dB		
1		0.190	21.89	9.62	31.51	54.04	-22.53	Average	Neutral
2		0.190	26.89	9.62	36.51	64.04	-27.53	QP	Neutral
3	PP	0.545	21.62	9.75	31.37	46.00	-14.63	Average	Neutral
4	QP	0.545	27.10	9.75	36.85	56.00	-19.15	QP	Neutral
5		0.840	19.04	9.81	28.85	46.00	-17.15	Average	Neutral
6		0.840	23.84	9.81	33.65	56.00	-22.35	QP	Neutral
7		0.965	19.33	9.72	29.05	46.00	-16.95	Average	Neutral
8		0.965	24.24	9.72	33.96	56.00	-22.04	QP	Neutral
9		1.180	20.13	9.71	29.84	46.00	-16.16	Average	Neutral
10		1.180	24.99	9.71	34.70	56.00	-21.30	QP	Neutral
11		1.395	18.70	9.72	28.42	46.00	-17.58	Average	Neutral
12		1.395	23.44	9.72	33.16	56.00	-22.84	QP	Neutral

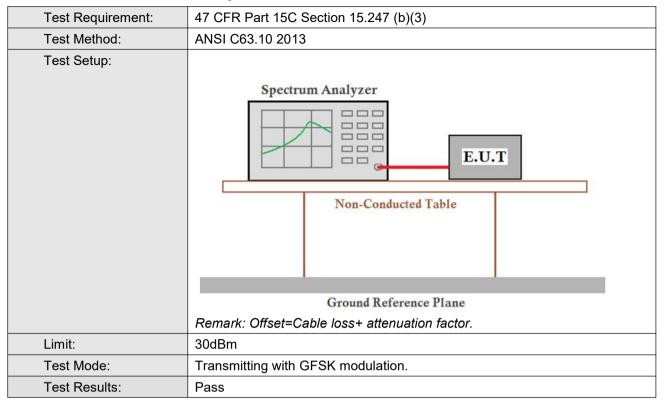
Remark:

- 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



Measurement Data

ANT1:

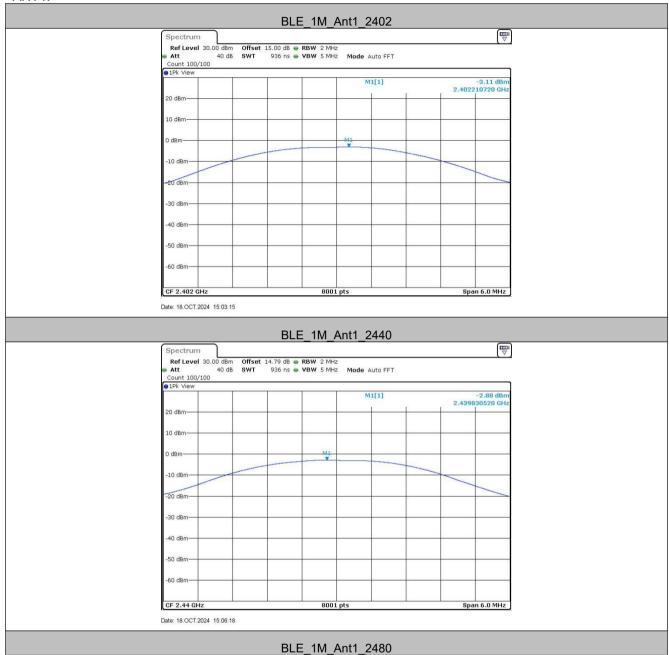
TestMode	Freq(MHz)	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
	2402	2402 -3.11		-8.92	≤36	PASS
BLE_1M	2440	-2.88	≤30	-8.69	≤36	PASS
•	2480	-1.22	≤30	-7.03	≤36	PASS

ANT2:

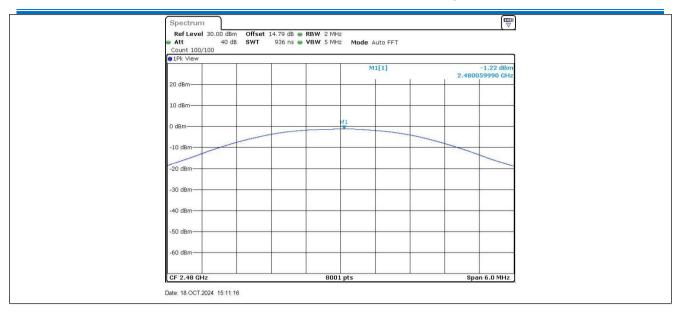
TestMode	Freq(MHz)	Conducted Peak Conducted Powert[dBm] Limit[dBm]		EIRP[dBm]	EIRP Limit[dBm]	Verdict
	2402 0.44		≤30	-9	≤36	PASS
BLE_1M	2440	0.25	≤30	-9.19	≤36	PASS
	2480	1.77	≤30	-7.67	≤36	PASS





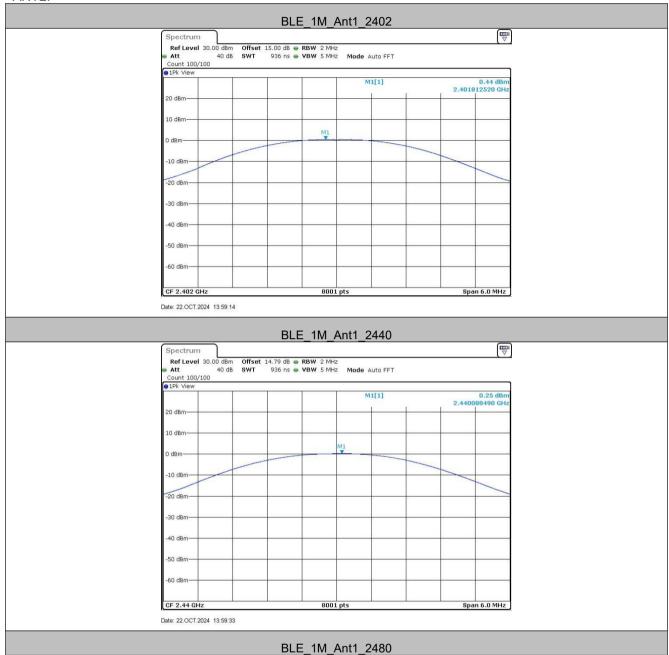




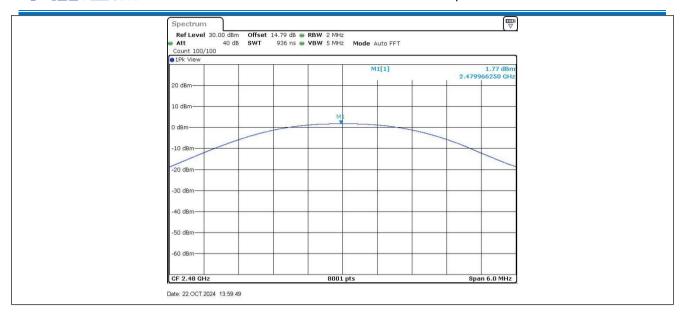






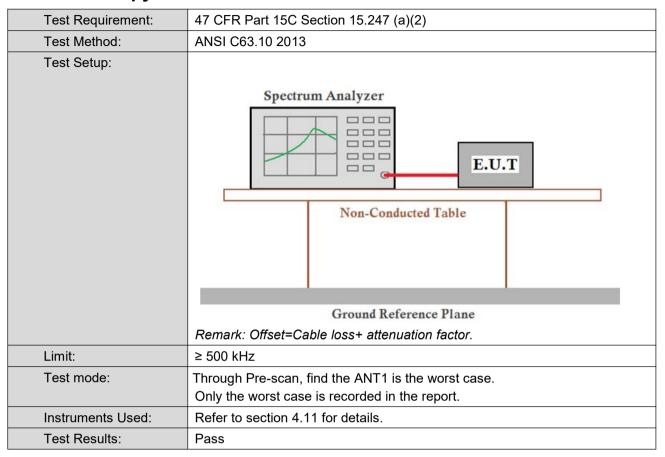








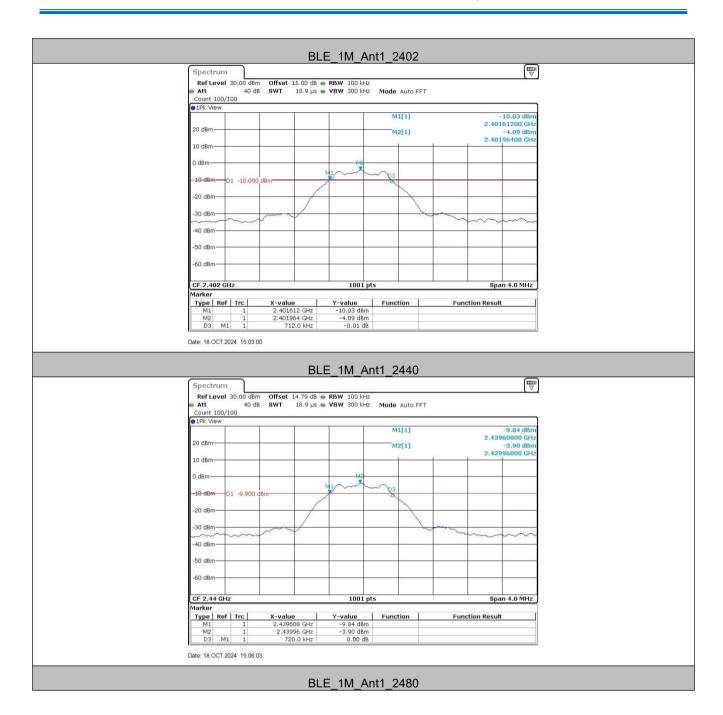
5.4 6dB Occupy Bandwidth



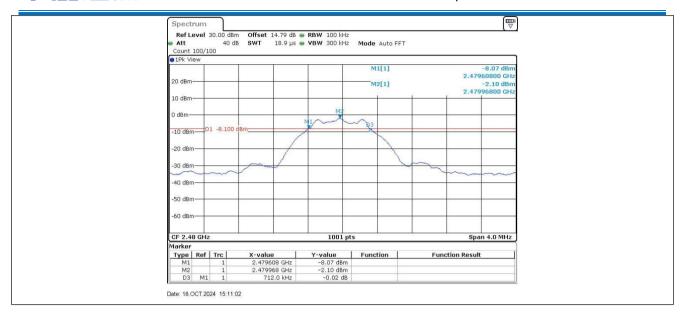
Measurement Data

TestM e	lod	Freq(MHz)	DTS BW	FL[MHz]	FH[MHz]	Limit[MHz]	Verdic t
		2402	0.71	2401.61	2402.32	0.5	PASS
BLE_	1M	2440	0.72	2439.61	2440.33	0.5	PASS
		2480	0.71	2479.61	2480.32	0.5	PASS



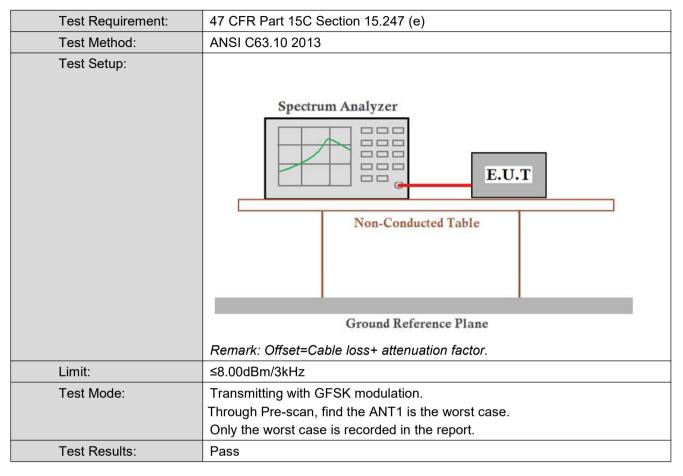








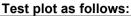
5.5 Power Spectral Density

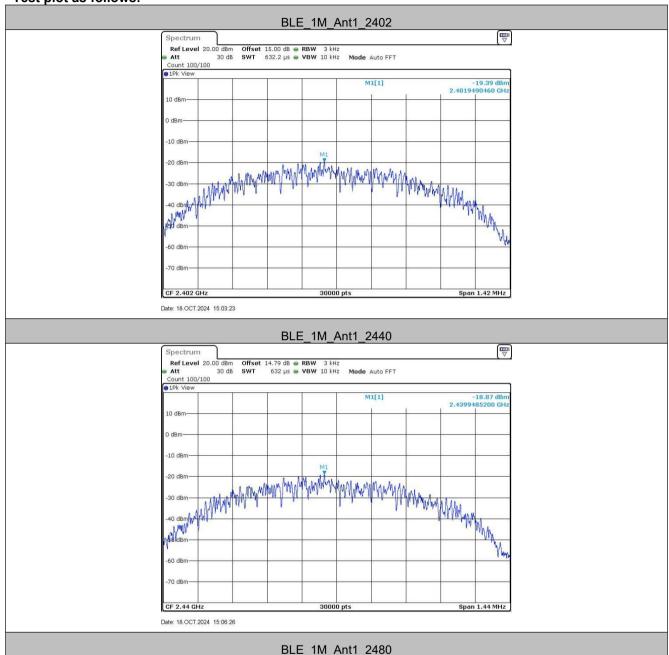


Measurement Data

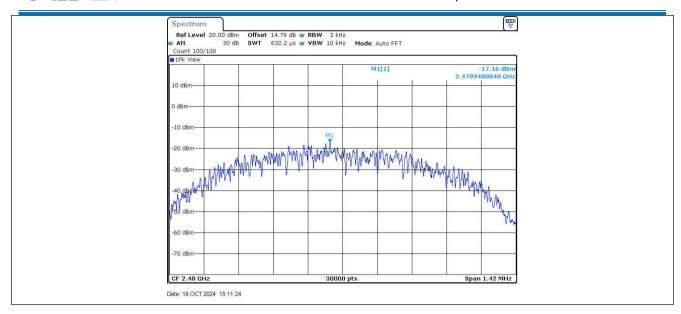
TestMode	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
	2402	-19.39	≤8.00	PASS
BLE_1M	2440	-18.87	≤8.00	PASS
	2480	-17.16	≤8.00	PASS







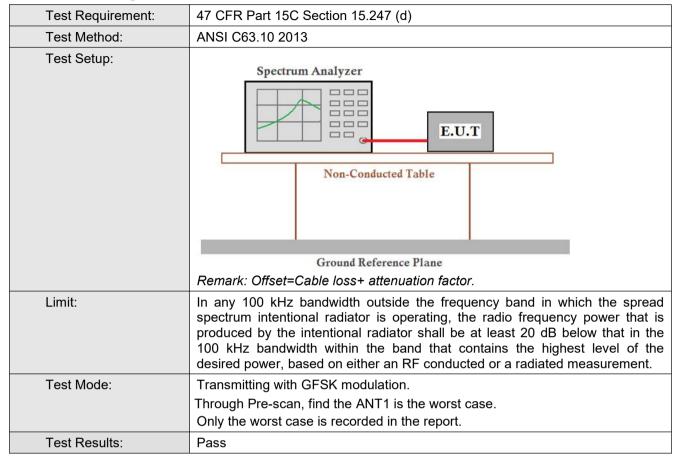






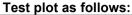
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5.6 Band-edge for RF Conducted Emissions



TestMode	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Low	2402	-4.13	-42.01	≤-24.13	PASS
	High	2480	-2.30	-41.12	≤-22.3	PASS



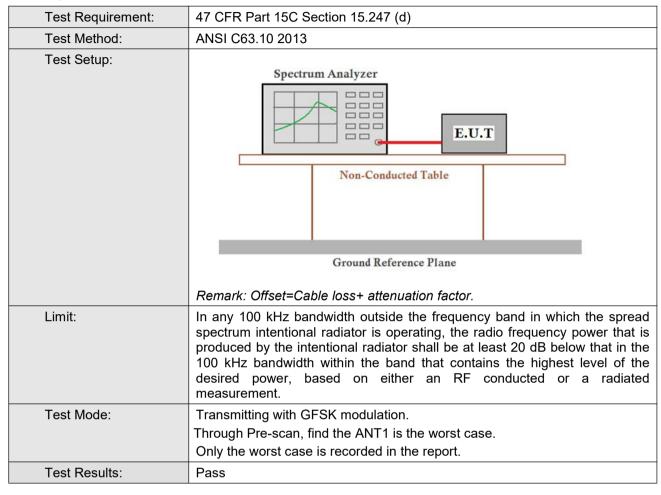






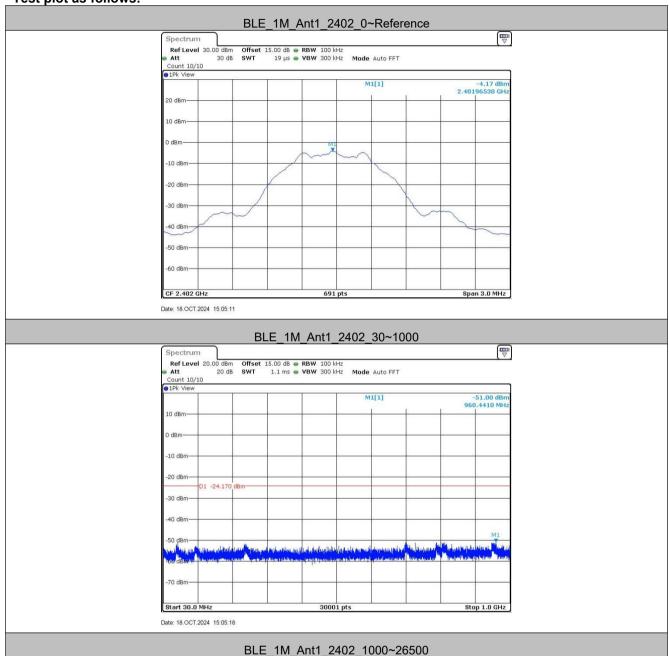


5.7 Spurious RF Conducted Emissions

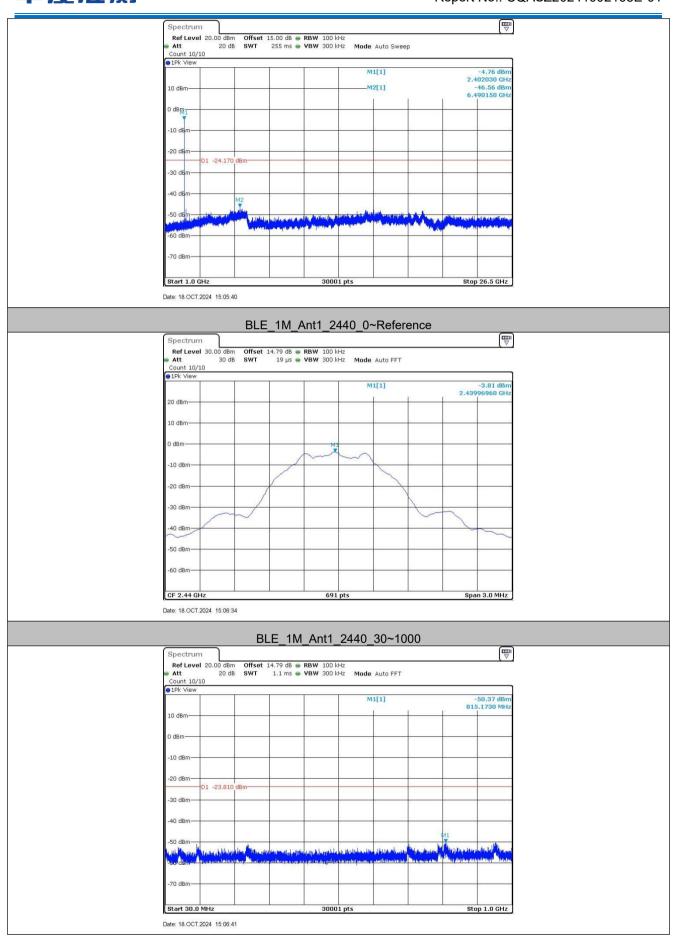




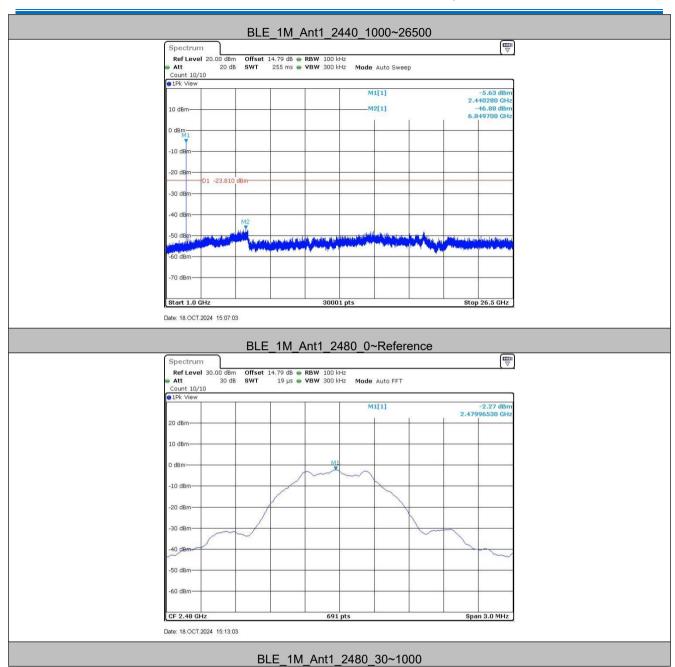






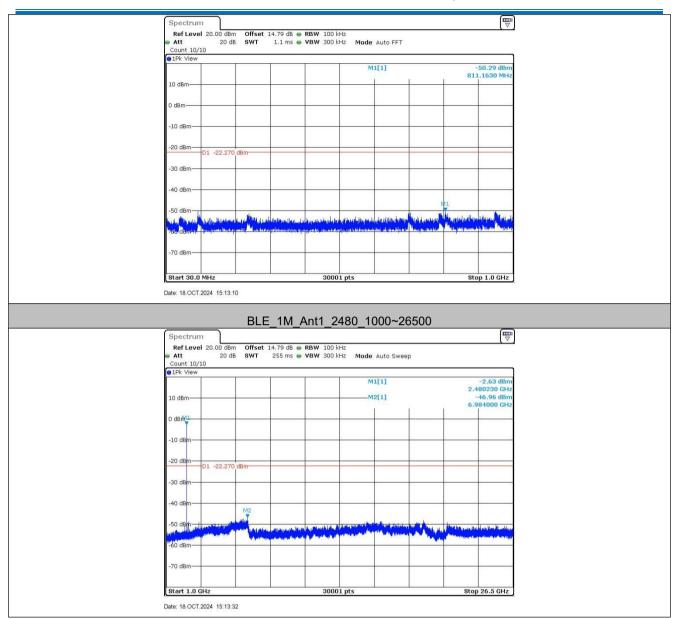








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Remark:

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	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3m	ı (Semi-Anecl	noic Cham	ber)				
Receiver Setup:	Frequency		Detector	RBW	VE	3W	Remark]	
	0.009MHz-0.090MH	Z	Peak	10kHz	301	kHz	Peak	Ī	
	0.009MHz-0.090MH	z	Average	10kHz	301	kHz	Average	1	
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	301	kHz	Quasi-peak	1	
	0.110MHz-0.490MH	z	Peak	10kHz	301	kHz	Peak	1	
	0.110MHz-0.490MH	Z	Average	10kHz	301	kHz	Average]	
	0.490MHz -30MHz		Quasi-peak	10kHz	301	kHz	Quasi-peak		
	30MHz-1GHz		Quasi-peak	100 kH	z 300	kHz	Quasi-peak		
	Abaya 4011-	Ab 4011-		1MHz	3N	1Hz	Peak		
	Above 1GHz		Peak	1MHz	10	Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Rem	ark	Measureme distance (r		
	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	Quasi-	peak	3		
	88MHz-216MHz		150	43.5	Quasi-	peak	3		
	216MHz-960MHz		200	46.0	Quasi-	peak	3		
	960MHz-1GHz	960MHz-1GHz 500 5-		54.0	Quasi-	peak	3		
	Above 1GHz 500 54		54.0	Aver	age	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.								





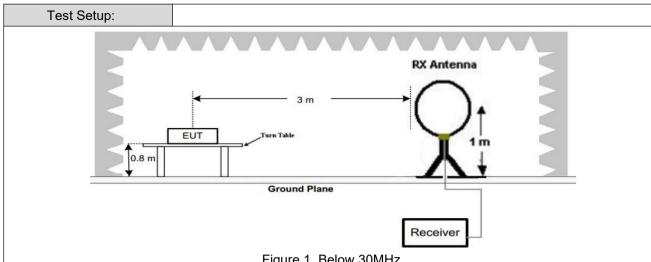
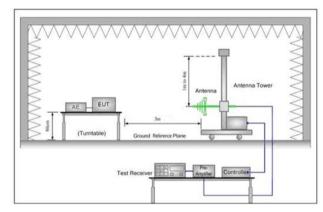


Figure 1. Below 30MHz



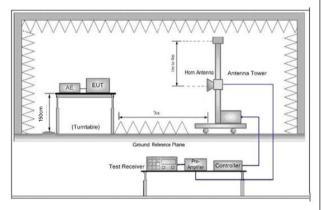


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 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.

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

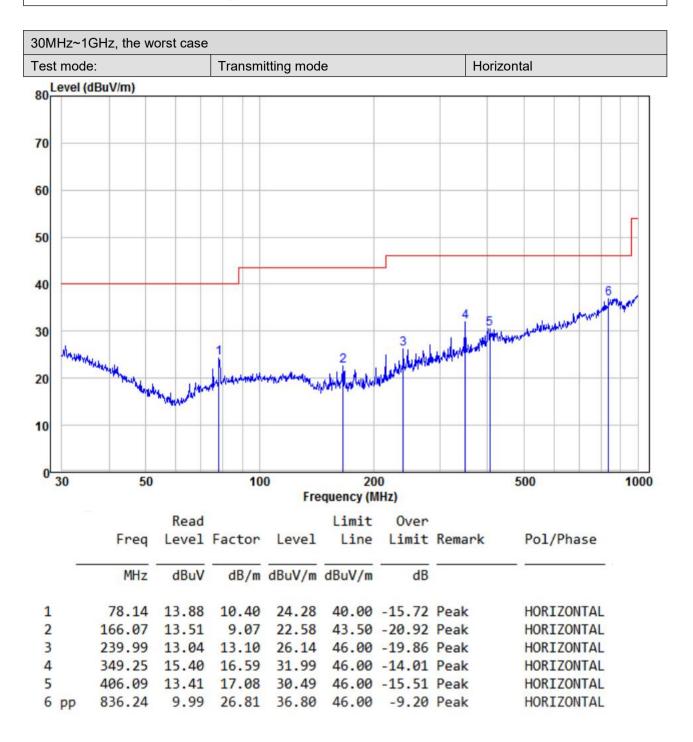


	horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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.
	Through Pre-scan, find the ANT1 is the worst case.
	Only the worst case is recorded in the report.
Test Results:	Pass





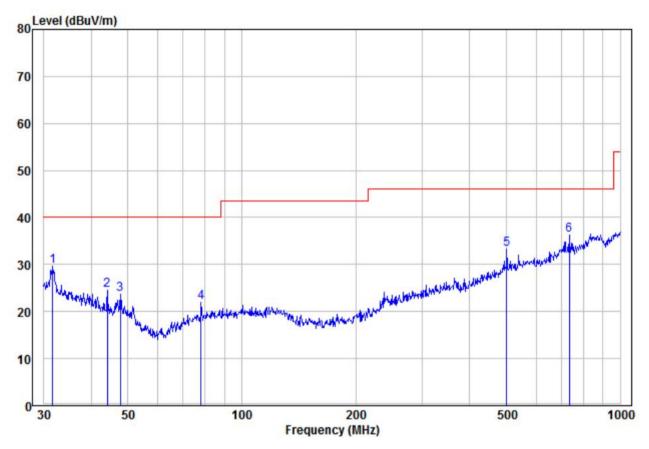
Radiated Emission below 1GHz







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



	Freq	Read	Factor	Level	Limit Line	100000000000000000000000000000000000000	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	31.62	14.02	15.74	29.76	40.00	-10.24	Peak	VERTICAL
2	44.12	13.07	11.54	24.61	40.00	-15.39	Peak	VERTICAL
3	47.83	13.87	9.81	23.68	40.00	-16.32	Peak	VERTICAL
4	78.14	11.52	10.40	21.92	40.00	-18.08	Peak	VERTICAL
5	501.18	12.96	20.31	33.27	46.00	-12.73	Peak	VERTICAL
6 pp	734 49	12.78	23.59	36.37	46 00	-9.63	Peak	VERTICAL



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Transmitter Emission above 1GHz

Worse case m	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	54.04	-9.2	44.84	74	-29.16	Peak	Н	
2400	56.26	-9.39	46.87	74	-27.13	Peak	Н	
4804	53.66	-4.33	49.33	74	-24.67	Peak	Н	
7206	50.57	1.01	51.58	74	-22.42	Peak	Н	
2390	53.52	-9.2	44.32	74	-29.68	Peak	V	
2400	50.29	-9.39	40.90	74	-33.10	Peak	V	
4804	54.57	-4.33	50.24	74	-23.76	Peak	V	
7206	49.27	1.01	50.28	74	-23.72	Peak	V	

Worse case m	se case mode:		GFSK(1Mbps)		Test channel:		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4880	51.61	-4.11	47.50	74	-26.50	peak	Н
7320	50.06	1.51	51.57	74	-22.43	peak	Н
4880	54.15	-4.11	50.04	74	-23.96	peak	V
7320	50.73	1.51	52.24	74	-21.76	peak	V

Worse case m	rse 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	56.03	-9.29	46.74	74	-27.26	Peak	Н	
4960	50.98	-4.04	46.94	74	-27.06	Peak	Н	
7440	48.39	1.57	49.96	74	-24.04	Peak	Н	
2483.5	55.36	-9.29	46.07	74	-27.93	Peak	V	
4960	51.25	-4.04	47.21	74	-26.79	Peak	V	
7440	48.33	1.57	49.90	74	-24.10	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:



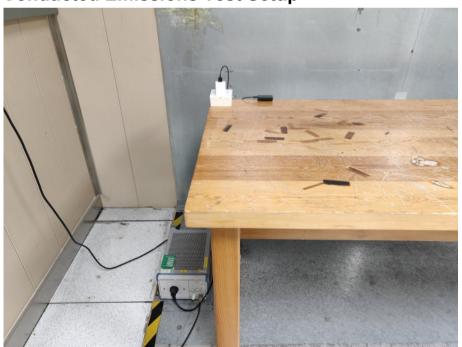
30MHz~1GHz:







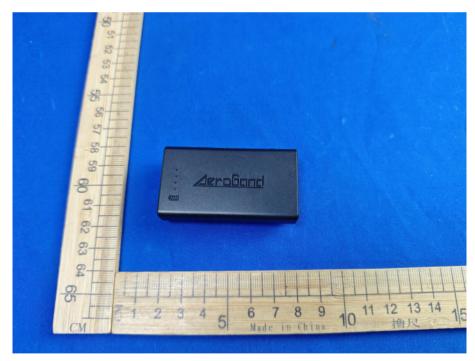
6.2 Conducted Emissions Test Setup





7 Photographs - EUT Constructional Details

















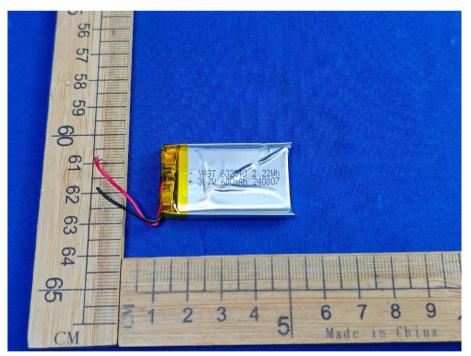






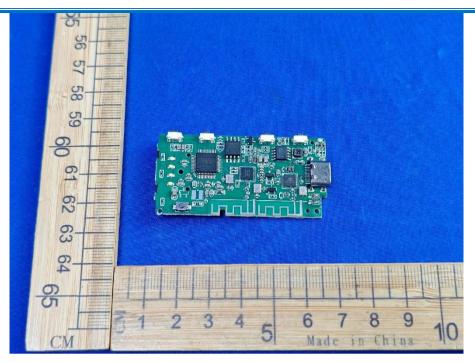


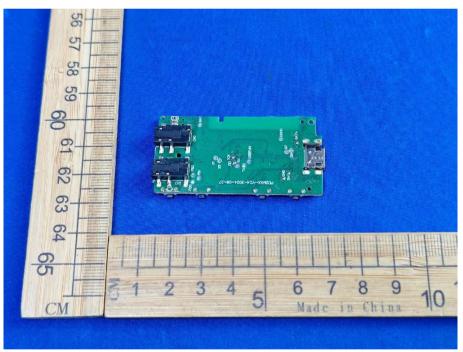












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