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

Test Report

Report No.:	CQASZ20240500775E-01 Hesung Innovation Limited
Applicant:	
Address of Applicant:	Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui , Kowloon, HongKong 999077 China
Equipment Under Test (E	UT):
Product:	Smart Wall Mounted Heater
Model No.:	DR-HSH017S, WDR-SH17S, DTSH17S, DKSH17S, DBSH17S, DOSH17S, DWSH17S, DCSH17S, DR-HSH017AS, WDR-SH17AS, DTSH17AS, DKSH17AS, DBSH17AS, DOSH17AS, DWSH17AS, DCSH17AS,
	DR-HSH017BS, WDR-SH17BS, DTSH17BS, DKSH17BS, DBSH17BS, DOSH17BS, DWSH17BS, DCSH17BS
Test Model No.:	DR-HSH017S
Brand Name:	DREO
FCC ID:	2A3SYHSH017
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2024-05-08
Date of Test:	2024-05-08 to 2024-05-15
Date of Issue:	2024-07-01
Test Result:	PASS*

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

Tested By:	lewis zhou
	(Lewis Zhou)
Reviewed By:	Timo Lej
	(Timo Lei)
Approved By:	Alex

(Alex Wang)



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
CQASZ20240500775E-01	Rev.01	Initial report	2024-07-01



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:	Hesung Innovation Limited
Address of Applicant:	Room 803, Chevalier House, 45-51 Chatham Road South, Tsim Sha Tsui , Kowloon, HongKong 999077 China
Manufacturer:	Shenzhen Hesung Innovation Technology Co., LTD
Address of Manufacturer:	26th Floor, Building A7, Chuangzhiyuncheng, Liuxian Avenue, NanshanDistrict, Shenzhen
Factory:	Shenzhen Hesung Innovation Technology Co., LTD
Address of Factory:	26th Floor, Building A7, Chuangzhiyuncheng, Liuxian Avenue, NanshanDistrict, Shenzhen

4.2 General Description of EUT

Product Name:	Smart Wall Mounted Heater		
Model No.:	DR-HSH017S, WDR-SH17S, DTSH17S, DKSH17S, DBSH17S, DOSH17S, DWSH17S, DCSH17S, DR-HSH017AS, WDR-SH17AS, DTSH17AS, DKSH17AS, DBSH17AS, DOSH17AS, DWSH17AS, DCSH17AS,		
	DR-HSH017BS, WDR-SH17BS, DTSH17BS, DKSH17BS, DBSH17BS, DOSH17BS, DWSH17BS, DCSH17BS		
Test Model No.:	DR-HSH017S		
Trade Mark:	DREO		
Software Version:	V1.0		
Hardware Version:	PAI-051 V1.2 20210824		
Operation Frequency:	2402MHz~2480MHz		
Bluetooth Version:	V5.2		
Modulation Type:	GFSK		
Transfer Rate:	1Mbps		
Number of Channel:	40		
Product Type:	Mobile Dertable		
Test Software of EUT:	Wifi Test Tool1.7.2		
Antenna Type:	FPC antenna		
Antenna Gain:	4.33dBi		
EUT Power Supply:	Power supply AC 120V		
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

EUT Test Software Settings:					
Mode:	Special software is used.	Special software is used.			
	0 0 0	☐ Through engineering command into the engineering mode. engineering command: *#*#3646633#*#*			
EUT Power level:	Class2 (Power level is built-in set parameters and cannot be changed and selected)				
Use test software to set the	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep				
transmitting of the EUT.	mitting of the EUT.				
Mode	Channel Frequency(MHz)				
	CH0	2402			
GFSK	2440				
	СН39	2480			

Run Software:

Control	Setting	TX Setting		TX Packet Setup	
MAC Address	Channel 2402	- cw	FALSE +	BLE Pa	ttern
		MHz FCC/CE	FALSE +	Continuous PF	RBS9 -
Wlan Mode	Bandwidth 20	MHz Temp Cal	FALSE -	Mode	Length
Testing Item	Data Rate MCS8	- TXPwr	Auto 💌		Auto 👻
Bluetooth - Tx	Mode VHT(11ac)	🚽 🗸 Xtal C	Auto 💌	BLE RX Packet -	
Start Stop		Save	Xtal C in Flash	PER	
RX Packet Counter Test Mode Continuous - Interval 2 -	View Window				
Single Reset					
Hex Send					
Hex					



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
1	/	/	1	1
2) Cable				

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



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.** 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:



4.7 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.

4.10Other Information Requested by the Customer

None.



4.11Equipment List

			_		
Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	CQA-005	2023/09/08	2024/09/07	
Spectrum analyzer	R&S	FSU26	CQA-038	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU40	CQA-075	2023/09/08	2024/09/07
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2023/09/08	2024/09/07
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2023/09/08	2024/09/07
Preamplifier	EMCI	EMC184055SE	CQA-089	2023/09/08	2024/09/07
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2023/09/08	2024/09/07
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2023/09/08	2024/09/07
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08	2024/09/07
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08	2024/09/07
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2023/09/08	2024/09/07
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2023/09/08	2024/09/07
Power meter	R&S	NRVD	CQA-029	2023/09/08	2024/09/07
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
LISN	R&S	ENV216	CQA-003	2023/09/08	2024/09/07
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07
DC power	KEYSIGHT	E3631A	CQA-028	2023/09/08	2024/09/07

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:



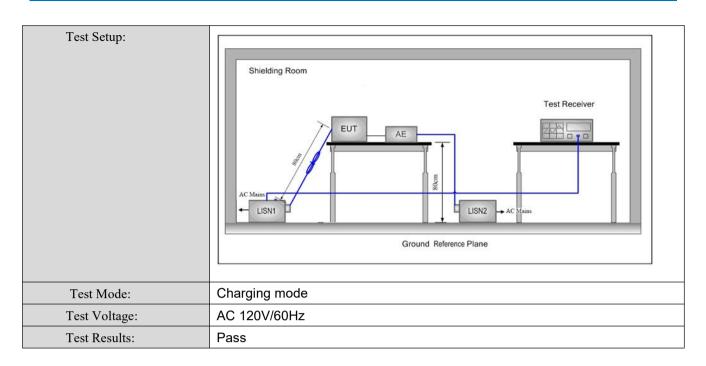
The antenna is FPC antenna.

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling This is either permanently attachment or a unique coupling that satisfies the requirement.



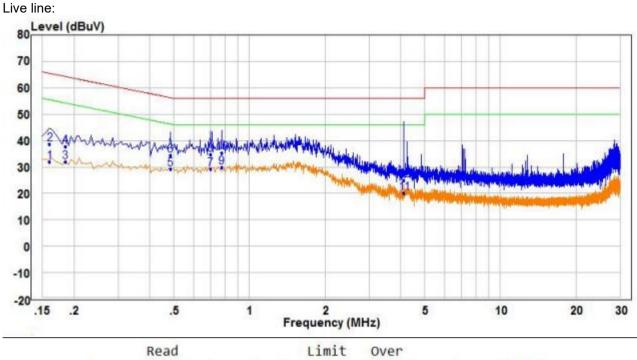
Test Requirement:	47 CFR Part 15C Section 15.207							
Test Method:	ANSI C63.10: 2013							
Test Frequency Range:	150kHz to 30MHz							
Limit:	Limit (dBuV)							
	Frequency range (MHz)	Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5	56	46					
	5-30	60	50					
	* Decreases with the logarithm of	f the frequency.						
Test Procedure:	1) The mains terminal disturb room.	oance voltage test was	s conducted in a shielded					
	 2) The EUT was connected to Impedance Stabilization Nation impedance. The power calconnected to a second LIS reference plane in the same measured. A multiple sock power cables to a single LI exceeded. 3) The tabletop EUT was placed on the horizontal grading of the EUT shall be 0.4 m for vertical ground reference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated exceeds. 5) In order to find the maximut equipment and all of the int ANSI C63.10: 2013 on contain the closest points and contain the closest points and contain the closest points and contain the closest points the closest points the EUT and associated exceeds the closest points the EUT and associated exceeds the closest points the EUT and associated exceeds the closest points and all of the int ANSI C63.10: 2013 on contain the closest points and all of the interval closest points and closest points and closest points and all of the interval closest points and all of the interval closest points and closest p	etwork) which provides oles of all other units of N 2, which was bonde e way as the LISN 1 for et outlet strip was used SN provided the rating and for floor-standing ar ound reference plane, th a vertical ground ref from the vertical ground ref from the vertical ground ref and to a ground reference and reference plane. The of the LISN 1 and the quipment was at least (an emission, the relative terface cables must be	a 50Ω/50µH + 5Ω linear f the EUT were d to the ground or the unit being d to connect multiple of the LISN was not c table 0.8m above the rangement, the EUT was erence plane. The rear d reference plane. The e horizontal ground om the boundary of the plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. re positions of					







Measurement Data



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	_	MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.160	22.59	9.49	32.08	55.46	-23.38	Average	Line
2 3 4 5		0.160	29.13	9.49	38.62	65.46	-26.84	QP	Line
3		0.185	22.39	9.49	31.88	54.26	-22.38	Average	Line
4		0.185	28.23	9.49	37.72	64.26	-26.54	QP	Line
5		0.485	19.67	9.52	29.19	46.25	-17.06	Average	Line
6		0.485	25.02	9.52	34.54	56.25	-21.71	QP	Line
7		0.700	19.24	9.87	29.11	46.00	-16.89	Average	Line
8		0.700	24.81	9.87	34.68	56.00	-21.32	QP	Line
9	PP	0.775	20.11	9.78	29.89	46.00	-16.11	Average	Line
10	QP	0.775	25.70	9.78	35.48	56.00	-20.52	QP	Line
11		4.130	10.30	9.69	19.99	46.00	-26.01	Average	Line
12		4.130	15.38	9.69	25.07	56.00	-30.93	QP	Line

Remark:

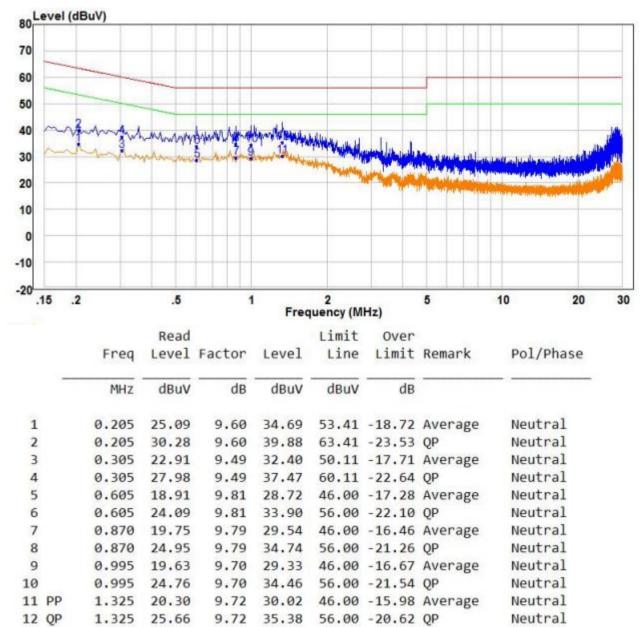
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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:



Remark:

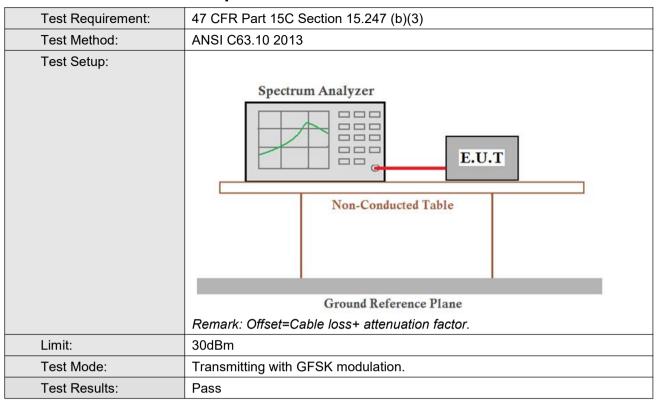
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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.



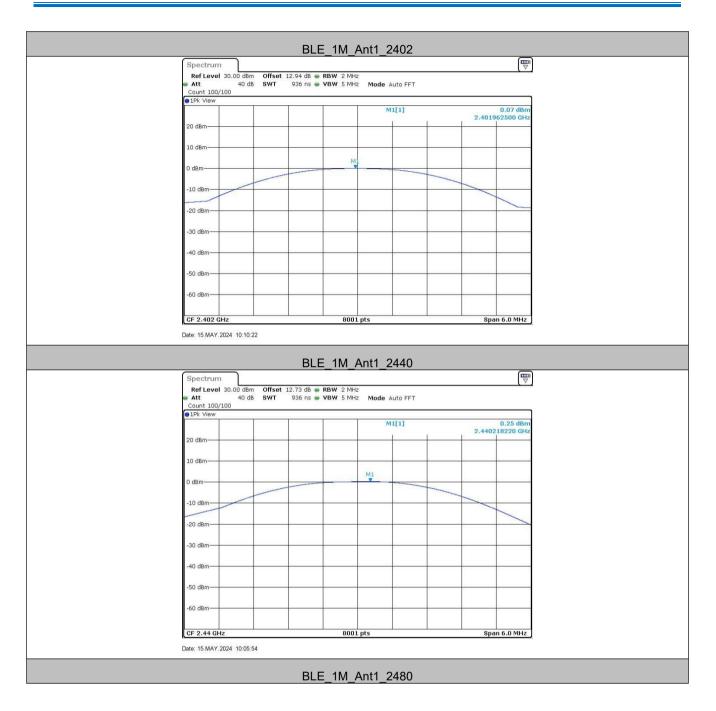
5.3 Conducted Peak Output Power



Measurement Data

GFSK mode (1Mbps)								
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	0.07	30.00	Pass					
Middle	0.25	30.00	Pass					
Highest	-0.19	30.00	Pass					



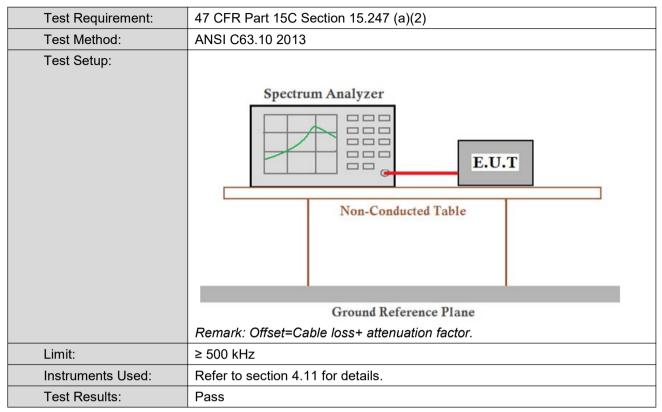




Att 40 d Count 100/100	B SWT 936 n:	s 🖷 VBW 5 MHz	Mode Auto FFT		
●1Pk View	1 1				0.10.15
			M1[1]	2.	-0.19 dBm 479913010 GHz
20 dBm					
10 dBm-					
TO OBIL					
0 dBm		M1			
-10 dBm					
-20 dBm					
-30 dBm			2		
-40 dBm					
-50 dBm					
60 dbm					
-ou ubiii					
-50 dBm					
CF 2.48 GHz	I	8001	ots		Span 6.0 MHz



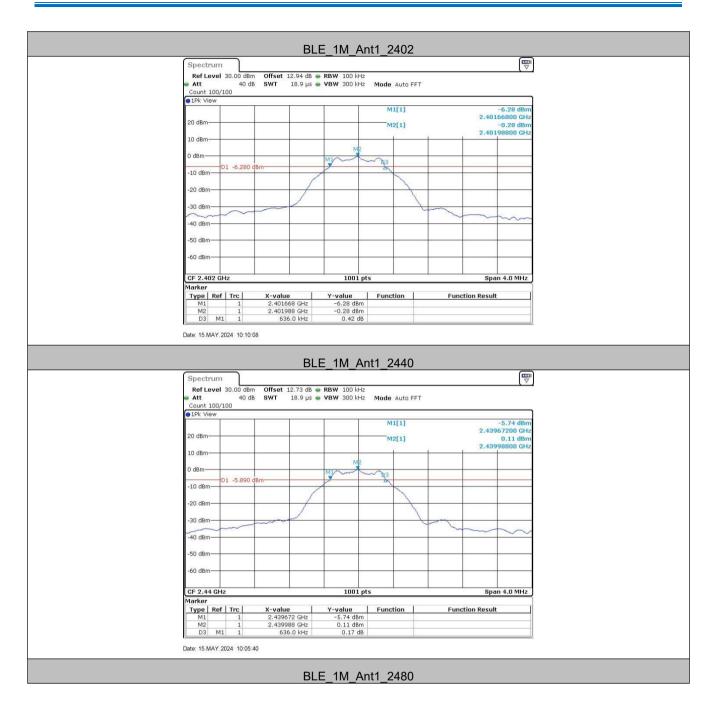
5.4 6dB Occupy Bandwidth



Measurement Data

GFSK mode (1Mbps)										
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result							
Lowest	0.64	≥500	Pass							
Middle	0.64	≥500	Pass							
Highest	0.63	≥500	Pass							



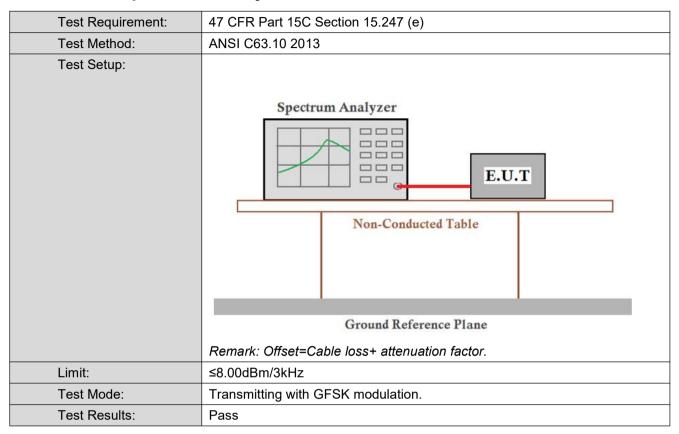




Ref Le Att	evel	30.00 dBm 40 dB			 RBW 100 kHz VBW 300 kHz 		uto FET			
Count			, and	1010 00		Mode A	atorri			
⊖1Pk Vi	iew									
20 dBm-						M1[M2[8	2.479	-6.32 dBn 967200 GH: -0.49 dBn 998800 GH:
10 dBm·										
0 dBm	-	1 -6.490 (dBm		MI	- 23				
-20 dBm				1				8	, ,	
-30 dBm	n	~					L	~		-
-40 dBm		~		_				~	~~~	
-50 dBm	n									
-60 dBm	n			-						
CF 2.4					1001 p	ts			Spa	an 4.0 MHz
Marker										
Type M1 M2		1	2.479	10 072 GHz 988 GHz 32.0 kHz	Y-value -6.32 dBm -0.49 dBm 0.31 dB	Functio	on	Func	tion Result	t



5.5 Power Spectral Density

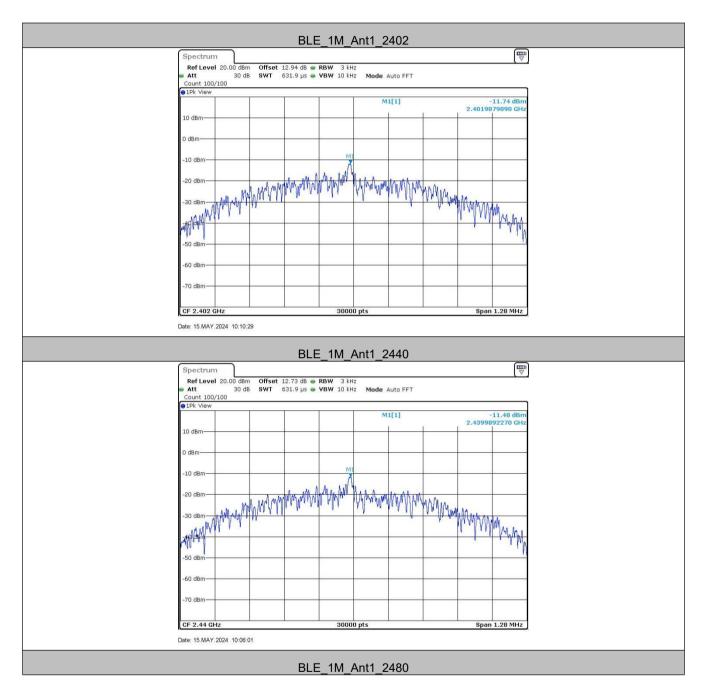


Measurement Data

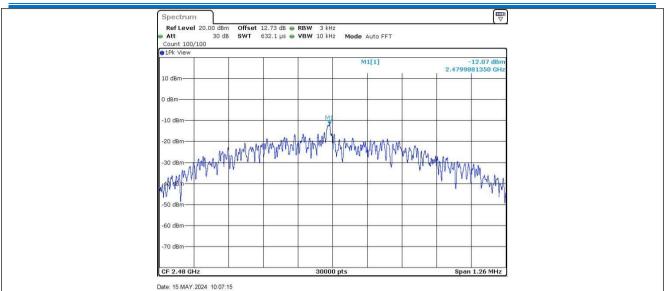
GFSK mode (1Mbps)										
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result							
Lowest	-11.74	≤8.00	Pass							
Middle	-11.48	≤8.00	Pass							
Highest	-12.07	≤8.00	Pass							



Test plot as follows:

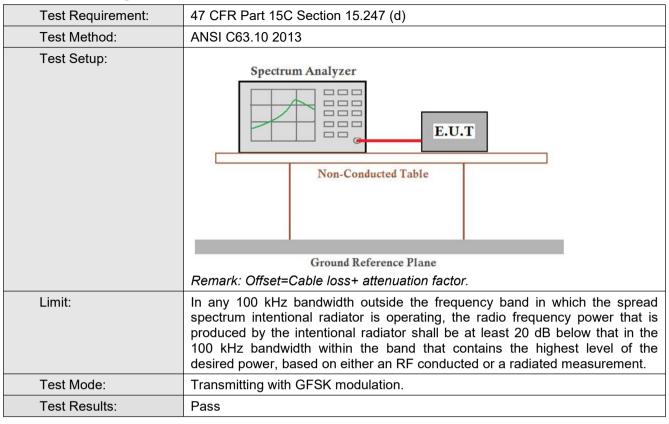








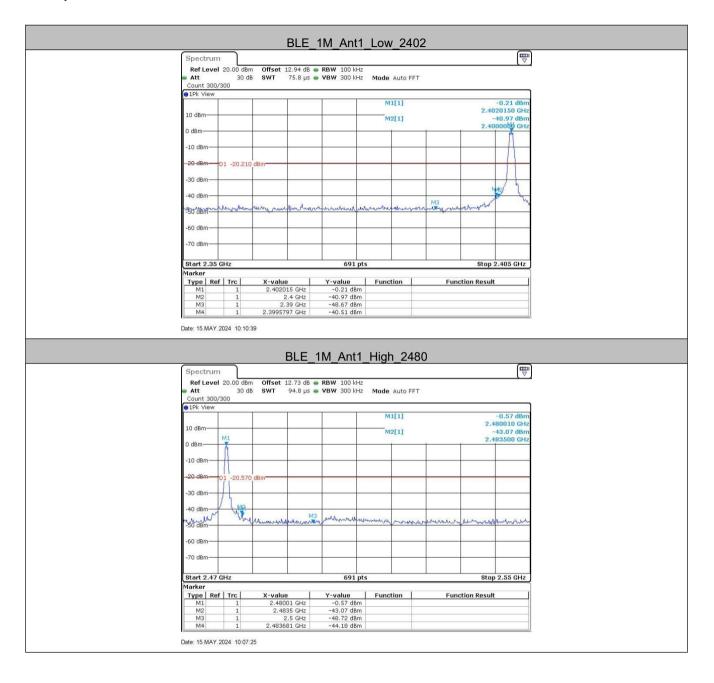
5.6 Band-edge for RF Conducted Emissions



TestMode	ChName	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
	Low	2402	-0.21	-40.51	≤-20.21	PASS
BLE_1M	High	2480	-0.57	-44.18	≤-20.57	PASS

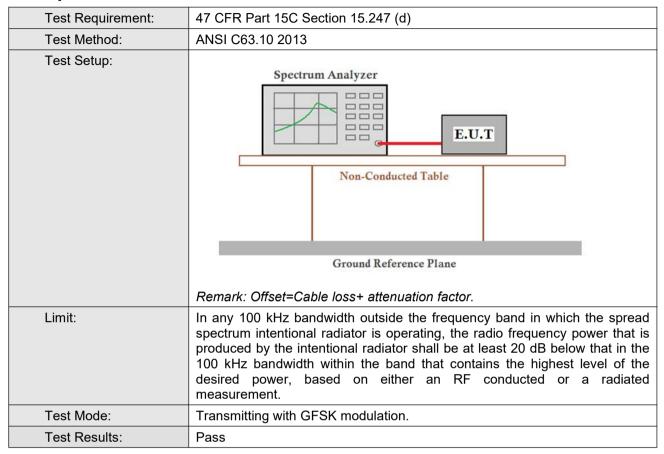


Test plot as follows:



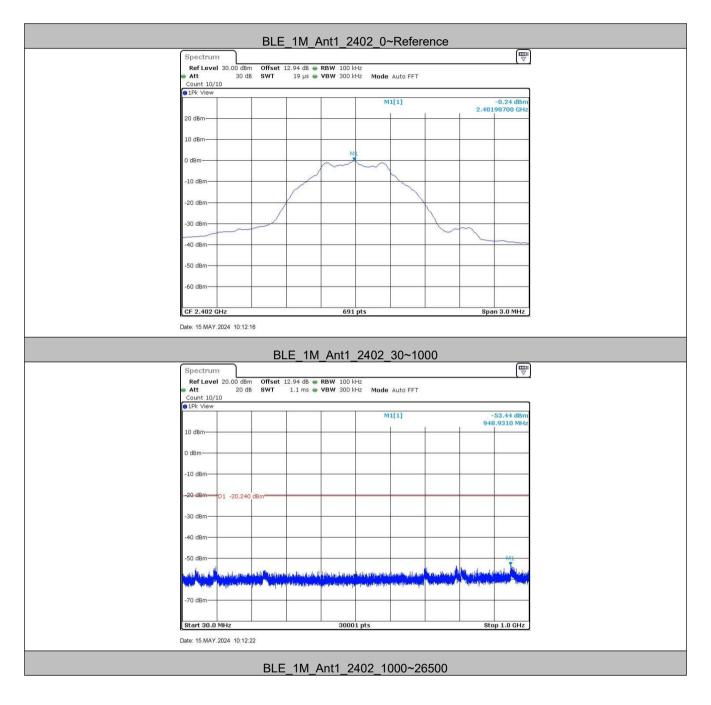


5.7 Spurious RF Conducted Emissions

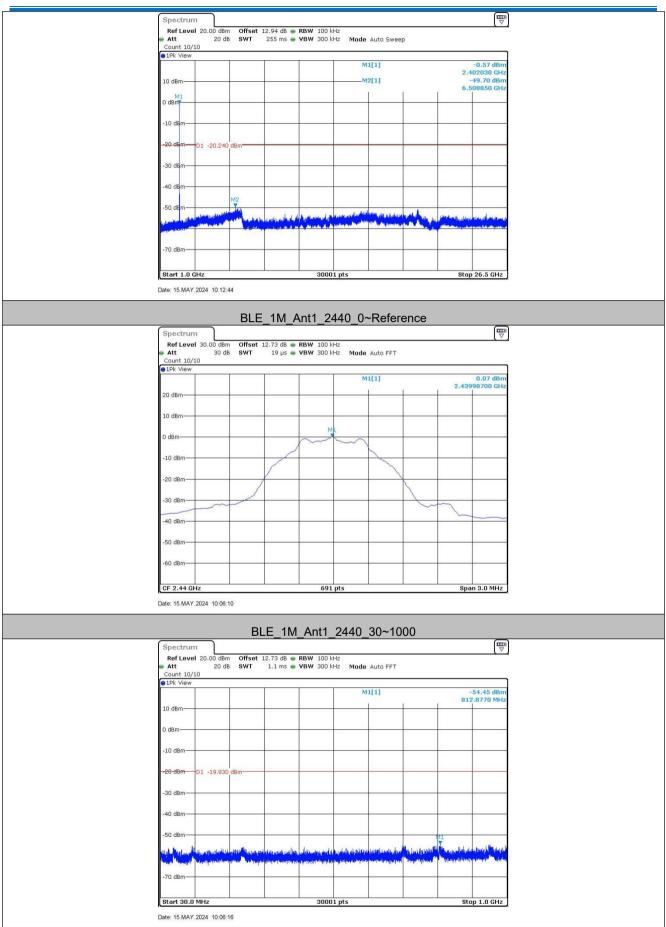




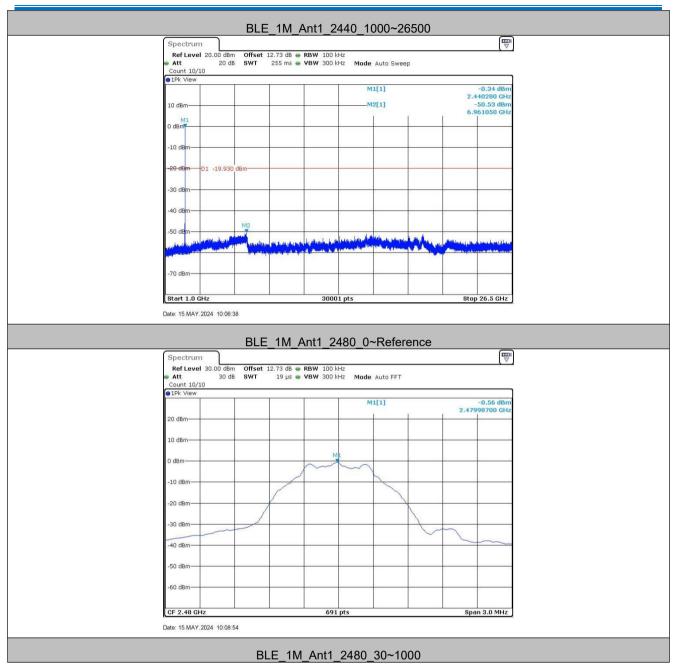
Test plot as follows:





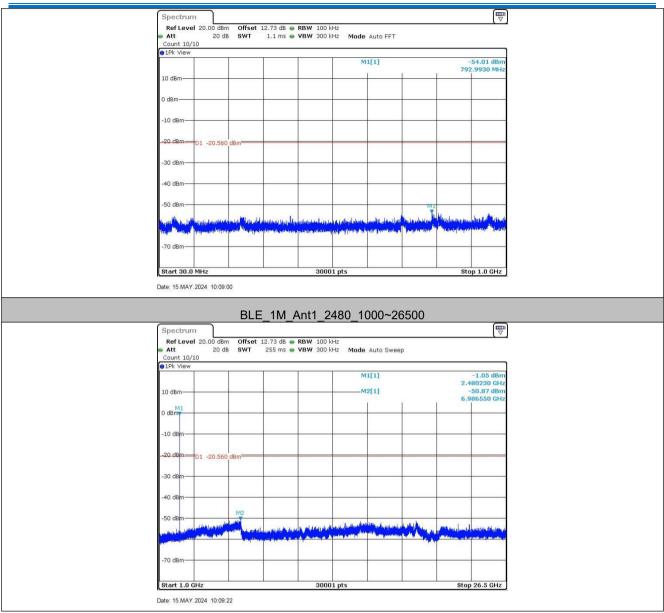








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Remark:

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.



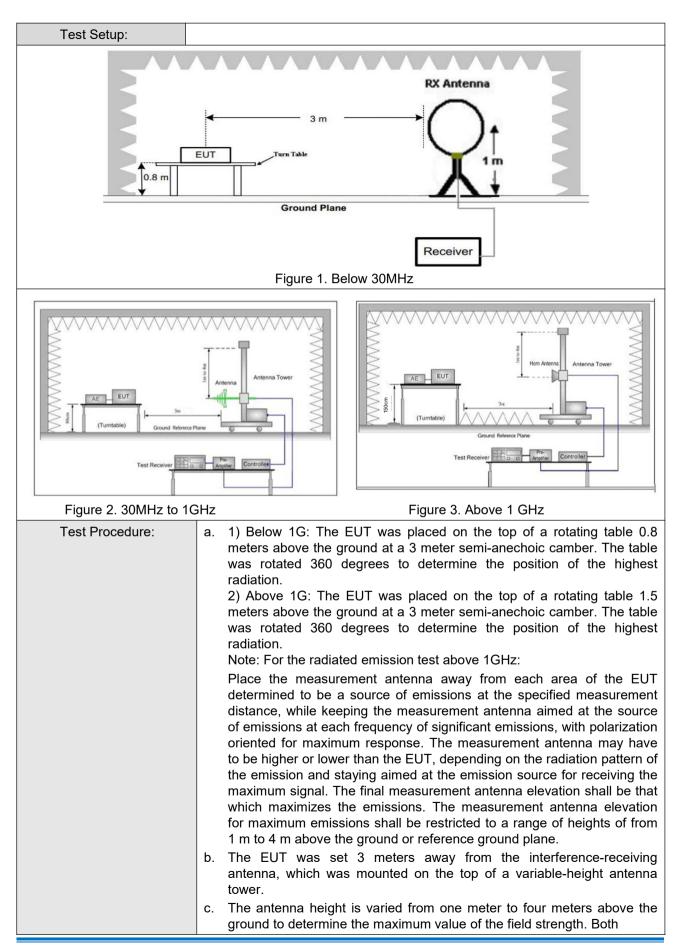
Г

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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-0.090MH	z	Peak	10kHz	z 30kHz	Peak			
	0.009MHz-0.090MH	z	Average 10k		z 30kHz	Average			
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z 30kHz	Quasi-peak			
	0.110MHz-0.490MH	z	Peak	10kHz	z 30kHz	Peak			
	0.110MHz-0.490MH	z	Average	10kHz	z 30kHz	Average			
	0.490MHz -30MHz		Quasi-peak	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:			eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremo distance (r			
	0.009MHz-0.490MHz 2		400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz		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	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.								



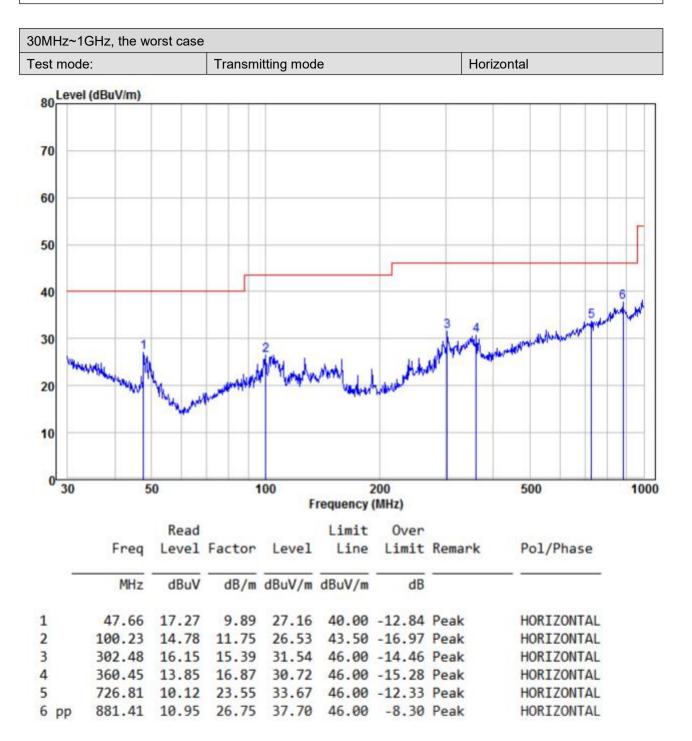




	horizontal and vertical polarizations of the antenna are set to make the measurement.				
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 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				

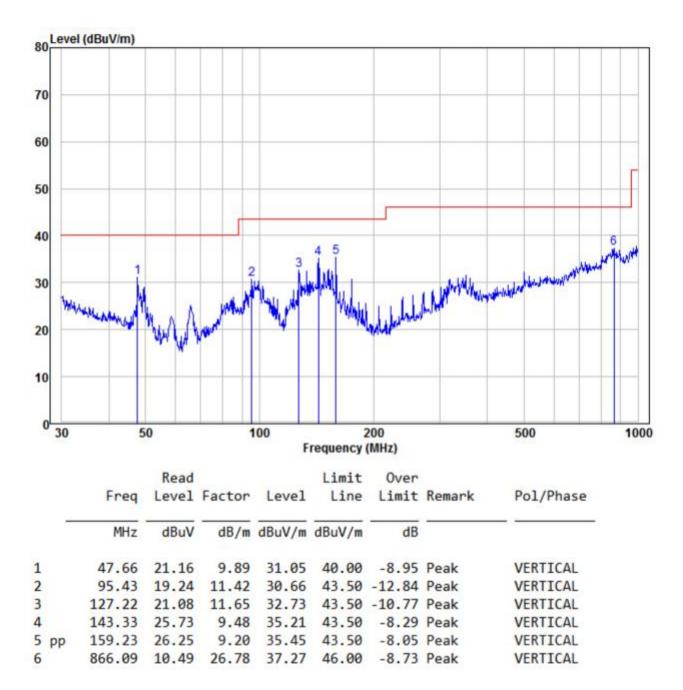


Radiated Emission below 1GHz





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



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	53.91	-9.2	44.71	74	-29.29	Peak	н
2400	55.47	-9.39	46.08	74	-27.92	Peak	Н
4804	52.20	-4.33	47.87	74	-26.13	Peak	Н
7206	48.62	1.01	49.63	74	-24.37	Peak	Н
2390	55.12	-9.2	45.92	74	-28.08	Peak	V
2400	51.74	-9.39	42.35	74	-31.65	Peak	V
4804	52.80	-4.33	48.47	74	-25.53	Peak	V
7206	51.16	1.01	52.17	74	-21.83	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	52.55	-4.11	48.44	74	-25.56	peak	Н
7320	48.34	1.51	49.85	74	-24.15	peak	Н
4880	52.63	-4.11	48.52	74	-25.48	peak	V
7320	48.56	1.51	50.07	74	-23.93	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	55.23	-9.29	45.94	74	-28.06	Peak	Н
4960	52.81	-4.04	48.77	74	-25.23	Peak	Н
7440	48.44	1.57	50.01	74	-23.99	Peak	Н
2483.5	57.99	-9.29	48.70	74	-25.30	Peak	v
4960	52.12	-4.04	48.08	74	-25.92	Peak	V
7440	49.30	1.57	50.87	74	-23.13	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

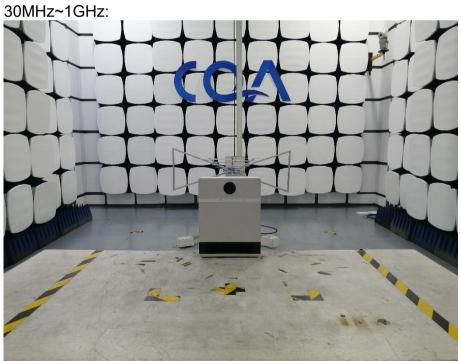
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified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



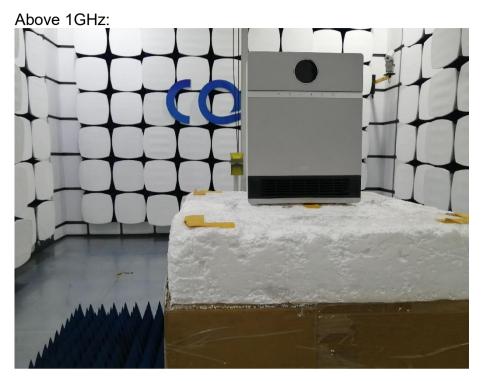
6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission









6.2 Conducted Emissions Test Setup







7 Photographs - EUT Constructional Details









