

FCC Test Report

Report No.: AGC00174190602FE03

FCC ID	2	XPYBMD360
APPLICATION PURPOSE	0	Original Equipment
PRODUCT DESIGNATION	:	BMD-360
BRAND NAME	:	u-blox
MODEL NAME		BMD-360
APPLICANT		u-blox AG
DATE OF ISSUE		Dec. 04, 2019
STANDARD(S)		FCC Part 15.247
REPORT VERSION	:	V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Dec. 04, 2019	Valid	Initial Release



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1. VERIFICATION OF COMPLIANCE

Applicant	u-blox AG		
Address	Zürcherstrasse 68, Thalwil, Switzerland, Ch-8800		
Manufacturer	u-blox AG		
Address	Zürcherstrasse 68, Thalwil, Switzerland, Ch-8800		
Factory	u-blox AG		
Address	Zürcherstrasse 68, Thalwil, Switzerland, Ch-8800		
Product Designation	BMD-360		
Brand Name	u-blox		
Test Model	BMD-360		
Date of test	Oct. 24, 2019 to Dec. 04, 2019		
Deviation	No any deviation from the test method		
Condition of Test Sample	Normal		
Test Result	Pass		
Report Template	AGCRT-US-BLE/RF		

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

sky done Prepared By Sky Dong Dec. 04, 2019 (Project Engineer) Max Zhang **Reviewed By** Max Zhang Dec. 04, 2019 (Reviewer) Forrest Un Approved By Forrest Lei Dec. 04, 2019 (Authorized Officer)



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2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a "BMD-360". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz		
RF Output Power 2.070dBm(Max)			
Bluetooth Version	V 5.0		
Modulation	BRGFSK, EDRπ /4-DQPSK,8DPSK BLEGFSK 1Mbps ⊠GFSK 2Mbps		
Number of channels	40 Channel		
Antenna Designation	PCB Antenna (Comply with requirements of the FCC part 15.203)		
Antenna Gain	3.0dBi		
Hardware Version	A		
Software Version	V1.0		
Power Supply	DC 3.3V by control board		

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
No. Co	0	2402MHZ
	e e	2404MHZ
2400~2483.5MHZ		G C C
	38	2478 MHZ
	39	2480 MHZ



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2.3 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: XPYBMD360** filing to comply with the FCC Part 15.247 requirements.

2.4TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.



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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y $\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission, $Uc = \pm 3.2 dB$
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted, $Uc = \pm 0.8$ dB
- Uncertainty of RF power density, conducted, Uc = ±2.6dB
- Uncertainty of spurious emissions, conducted, Uc = ±2.7dB
- Uncertainty of Occupied Channel Bandwidth: $Uc = \pm 2\%$



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4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION			
1	Low channel TX (GFSK 2Mbps)			
2	Middle channel TX (GFSK 2Mbps)			
3	High channel TX (GFSK 2Mbps)			

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- For Radiated Emission, 3axis were chosen for testing for each applicable mode.
 The test use engineering mode which can set the EUT into the individual test modes.

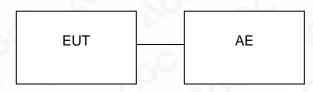


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5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM



5.2 EQUIPMENT USED IN TESTED SYSTEM

ltem	Equipment Model No.		ID or Specification	Remark	
1	BMD-360	BMD-360	XPYBMD360	EUT	
2	adapter	105010EU	DC5V	AE	
3	USB charge line	A23	0.5m	AE	
4	control board	BMD-300 Series Evaluation Kit	DC3.3V	AE	

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	15.209 Radiated Emission	
15.207 Conducted Emission		Compliant



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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun. 11, 2019	Jun. 12, 2020
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due	
TEST RECEIVER	R&S	ESCI	10096	Jun. 11, 2019	Jun. 12, 2020	
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 20, 2018	Dec. 19, 2019	
2.4GHz Fliter	Micro-tronics	087	N/A	Jun. 11, 2019	Jun. 12, 2020	
Attenuator	Weinachel Corp	58-30-33	N/A	Jun. 11, 2019	Jun. 12, 2020	
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2017	Sep. 20, 2020	
Active loop antenna ZHINAN (9K-30MHz)		ZN30900C	18051	Jun. 14, 2018	Jun. 13, 2020	
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 26, 2018	May. 25, 2020	
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 14, 2020	
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021	
Test software	Tonscend	JS32-re(Ver.2.5)	N/A	N/A	N/A	



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7. PEAK OUTPUT POWER

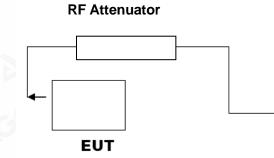
7.1. MEASUREMENT PROCEDURE

For peak power test:

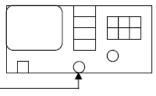
- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



Spectrum Analyzer



RF Cable



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7.3. LIMITS AND MEASUREMENT RESULT

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION										
Frequency (GHz)Peak Power (dBm)Applicable Limits (dBm)Pass or Fail										
2.402	2.070	30	Pass							
2.440	2.063	30	Pass							
2.480	1.984	30	Pass							

CH0

🚺 Keysight Spectrum Analyzer - Swept SA			- ē 🔀
KF 50 Ω AC Marker 1 2.401495000000	SENSE:INT	ALIGN AUTO 12:21:26 PM Dec 04, 2019 Avg Type: Log-Pwr TRACE 2 3 4 5 6	Peak Search
10 dB/diy Ref 10.00 dBm	PNO: Fast Trig: Free Run IFGain:Low Atten: 20 dB	AvgjHold:>100/100 TYPE MANNAN DET P NNNN Mkr1 2.401 495 GHz 2.070 dBm	NextPeak
0.00	1		Next Pk Right
-10.0			Next Pk Left
-30.0			Marker Delta
-60.0			Mkr→CF
-70.0			Mkr→RefLvl
Center 2.402000 GHz #Res BW 1.5 MHz	#VBW 5.0 MHz	Span 5.000 MHz Sweep 1.000 ms (1001 pts)	More 1 of 2
MSG		STATUS	



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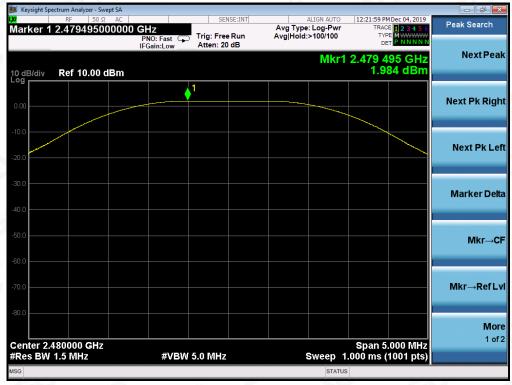
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CH19



CH39





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8.6 DB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW \ge 3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

8.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT								
Applicable Limite	Applicable Limits							
Applicable Limits	Test Data	Criteria						
GC C	Low Channel	1.145	PASS					
>500KHZ	Middle Channel	1.148	PASS					
	High Channel	1.144	PASS					

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

📕 Keysight Spectrum Analyzer - Occupied BW					- # -
⊈RF _50 Ω AC Center Freq 2.402000000		SENSE:INT Freq: 2.402000000 GHz Free Run Avg Hol	ALIGN AUTO F d:>10/10	11:58:14 AM Dec 04, 2019 Radio Std: None	Frequency
		n: 30 dB		Radio Device: BTS	
5 dB/div Ref 20.00 dBm					
5.00					Center Fre
0.0			~		2.402000000 GH
5.0				~~~~	
5.0					
5.0					
00					
115					
				0	
enter 2.402 GHz Res BW 100 kHz	#	VBW 300 kHz		Span 5 MHz Sweep 1 ms	CF Ste 500.000 kH
	-	Total Power	8.55 0	d D m	Auto Ma
Occupied Bandwidt		Total Power	0.00 (авш	
2.	0846 MHz				Freq Offs
Transmit Freq Error	12.673 kHz	OBW Power	99.0	00 %	0 H
x dB Bandwidth	1.145 MHz	x dB	-6.00) dB	
G			STATUS		



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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





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9. CONDUCTED SPURIOUS EMISSION

9.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 7.2.

9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEA	ASUREMENT RESULT					
	Measurement Result					
Applicable Limits	Test Data	Criteria				
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS				

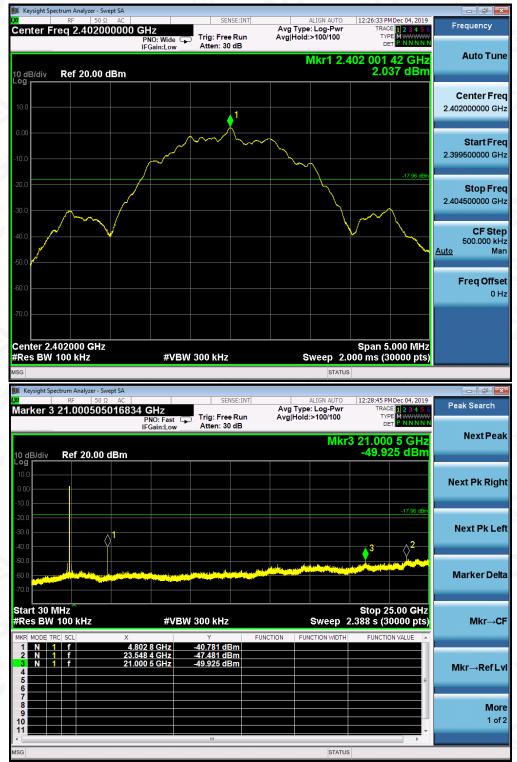


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TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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GFSK MODULATION IN MIDDLE CHANNEL



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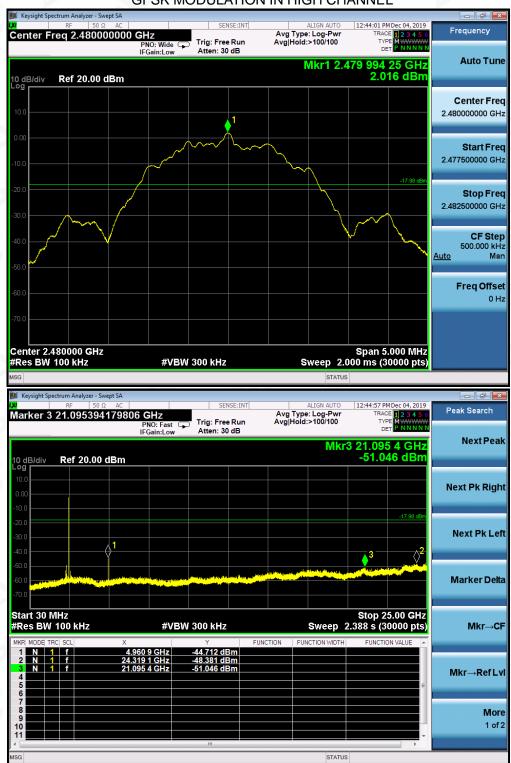
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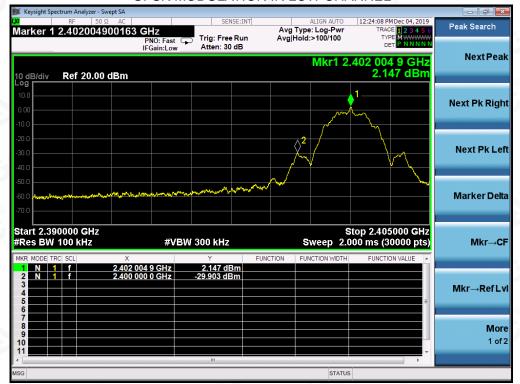
GFSK MODULATION IN HIGH CHANNEL

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.



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TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

GFSK MODULATION IN HIGH CHANNEL





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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 7.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-16.309	8	Pass
Middle Channel	-16.131	8	Pass
High Channel	-17.752	8	Pass

TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

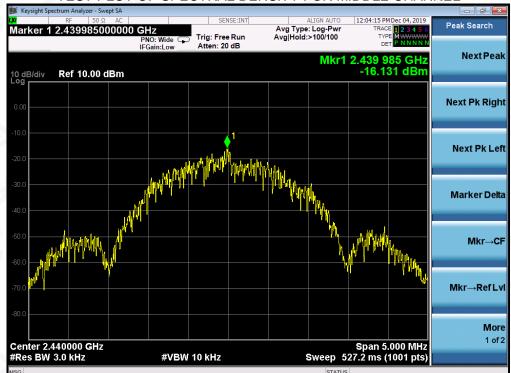




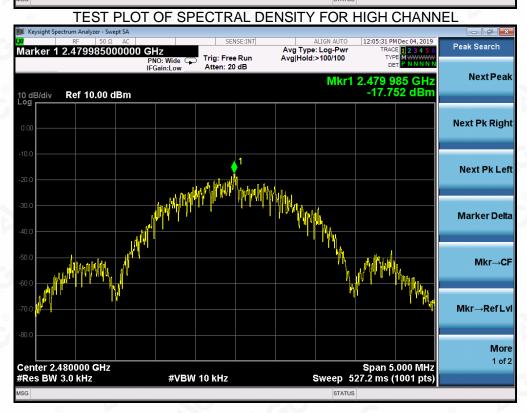
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TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. 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.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.



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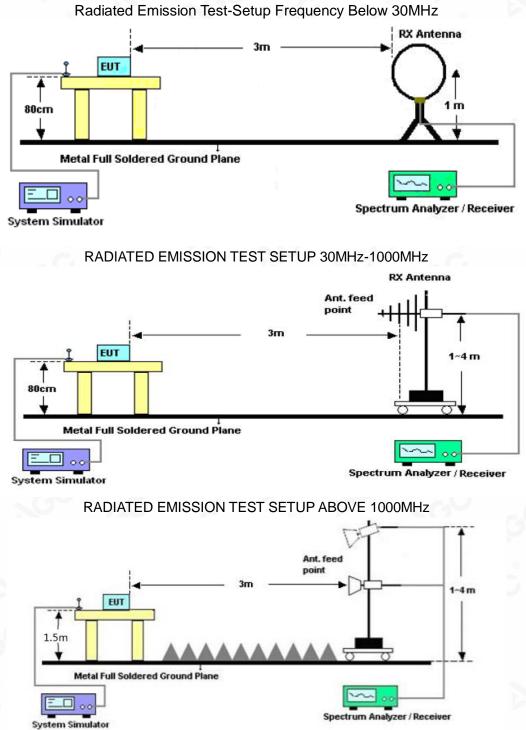
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11.2. TEST SETUP





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11.3. LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.



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EUT			BM	D-3	60						G	Mode	l Na	ame			BMD-360					
Temperature			25°	25° C					Relative Humidity					55.4%								
Pressure	e		960	960hPa				Ċ	Test Voltage				Normal Voltage									
Test Mod	de		Мо	de 1	1 Antenna Horizonta					Antenna			Horizontal									
	90 -			_					F	CC PAF	RT 15 C											6
Level(dBL//m)	80 70 60 50 30 20		~			Г						, market and		5	6 3 3 4							
	10 0 -10 30N	A QP Limit QP Detector	r	Horiz	contal	PK	100	M		Frequen	cy[Hz]										1G	

RADIATED EMISSION BELOW 1GHZ

	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	1	36.7900	25.69	14.16	40.00	14.31	100	64	Horizontal
ſ	2	52.3100	25.90	14.49	40.00	14.10	100	242	Horizontal
	3	78.5000	20.07	10.46	40.00	19.93	100	287	Horizontal
	4	191.9900	22.26	12.43	43.50	21.24	150	99	Horizontal
	5	315.1800	25.28	16.48	46.00	20.72	150	118	Horizontal
	6	384.0500	33.01	19.23	46.00	12.99	100	11	Horizontal

RESULT: PASS



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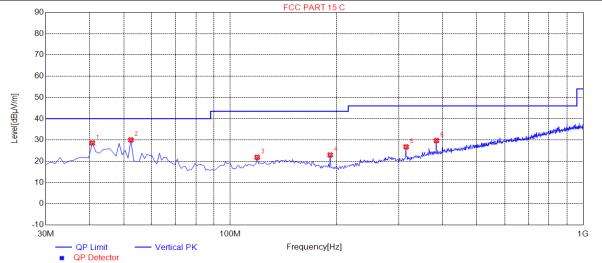
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EUT	BMD-360	Model Name	BMD-360		
Temperature	25° C	Relative Humidity	55.4%		
Pressure	960hPa	Test Voltage	Normal Voltage		
Test Mode	Mode 1	Antenna	Vertical		



	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
	1	40.6700	28.58	14.91	40.00	11.42	100	241	Vertical
0	2	52.3100	30.05	14.49	40.00	9.95	100	84	Vertical
	3	119.2400	21.84	13.39	43.50	21.66	100	257	Vertical
	4	191.9900	22.95	12.43	43.50	20.55	100	1	Vertical
	5	315.1800	26.76	16.48	46.00	19.24	100	350	Vertical
	6	384.0500	29.71	19.23	46.00	16.29	100	138	Vertical

RESULT: PASS Note:

1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. All test modes had been tested. The mode 1 with external antenna 1 is the worst case and recorded in the report.



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RADIATED EMISSION ABOVE 1GHZ

EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	🛛 Limits 📂	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	53.82	0.08	53.9	74	-20.1	peak
4804.000	47.14	0.08	47.22	54	-6.78	AVG
7206.000	48.94	2.21	51.15	74	-22.85	peak
7206.000	43.59	2.21	45.8	54	-8.2	AVG
0		0		GG	0	8
mark:	0		0			- 6

EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
52.42	0.08	52.5	74	-21.5	peak
46.67	0.08	46.75	54	-7.25	AVG
46.55	2.21	48.76	74	-25.24	peak
40.27	2.21	42.48	54	-11.52	AVG
	-0	8		9	G
	(dBµV) 52.42 46.67 46.55	(dBµV) (dB) 52.42 0.08 46.67 0.08 46.55 2.21	(dBµV) (dB) (dBµV/m) 52.42 0.08 52.5 46.67 0.08 46.75 46.55 2.21 48.76	(dBµV) (dB) (dBµV/m) (dBµV/m) 52.42 0.08 52.5 74 46.67 0.08 46.75 54 46.55 2.21 48.76 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 52.42 0.08 52.5 74 -21.5 46.67 0.08 46.75 54 -7.25 46.55 2.21 48.76 74 -25.24

Factor = Antenna Factor + Cable Loss – Pre-amplifier



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EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	🛛 Limits 🗾	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4880.000	52.1	0.14	52.24	74	-21.76	peak
4880.000	46.89	0.14	47.03	54	-6.97	AVG
7320.000	46.91	2.36	49.27	74	-24.73	peak
7320.000	40.43	2.36	42.79	54	-11.21	AVG
0		0		- 6	0	0

ampiitie

EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4880.000	51.01	0.14	51.15	74	-22.85	peak
4880.000	44.36	0.14	44.5	54	-9.5	AVG
7320.000	45.9	2.36	48.26	74	-25.74	peak
7320.000	39.49	2.36	41.85	54	-12.15	AVG
mark:			60	6	0	

Factor = Antenna Factor + Cable amplifie



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EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

(MHz) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 4960.000 50.46 0.22 50.68 74 -23.32 4960.000 44.59 0.22 44.81 54 -9.19	Value Type
	o peak
4960.000 44.59 0.22 44.81 54 -9.19	реак
	AVG
7440.000 45.61 2.64 48.25 74 -25.75	peak
7440.000 39.54 2.64 42.18 54 -11.82	AVG

EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4960.000	48.93	0.22	49.15	74	-24.85	peak
4960.000	42.89	0.22	43.11	54	-10.89	AVG
7440.000	44.77	2.64	47.41	74	-26.59	peak
7440.000	38.01	2.64	40.65	54	-13.35	AVG
0		-00	-			

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

RESULT: PASS

Note:

1. Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

2. All external antennas had been tested. The external antenna 1 is the worst case and recorded in the report.



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TEST RESULT FOR	RESTRICTED BANDS	REQUIREMENTS
ILSI KLSULI I UK	RESTRICTED DANDS	

EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal





AV



RESULT: PASS



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EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

PK



AV



RESULT: PASS



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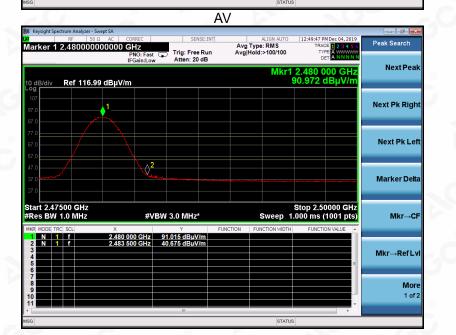
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EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
		DIZ	

		Р	n 🔍		
Keysight Spectrum Analyzer - Swept SA RF 50 Q AC	CORREC	CENCEJINE		12-40-14 PM D-= 04 2010	- 0
arker 1 2.47950000000	OGHZ	SENSE:INT Trig: Free Run Atten: 20 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold:>100/100	12:49:14 PM Dec 04, 2019 TRACE 1 2 3 4 5 6 TYPE M	Peak Search
] dΒ/div Ref 116.99 dΒμV	//m			2.479 500 GHz 97.114 dBµV/m	NextPe
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RESULT: PASS



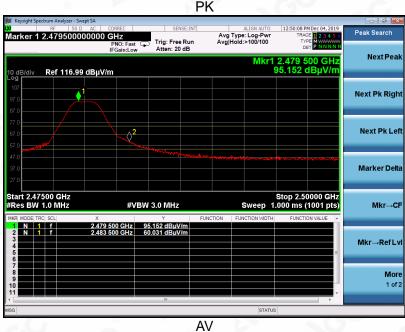
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EUT	BMD-360	Model Name	BMD-360
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical
		DIZ	





RESULT: PASS Note:

 The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μV) to represent the Amplitude. Use the F dB(μV/m) to represent the Field Strength. So A=F.



12. FCC LINE CONDUCTED EMISSION TEST

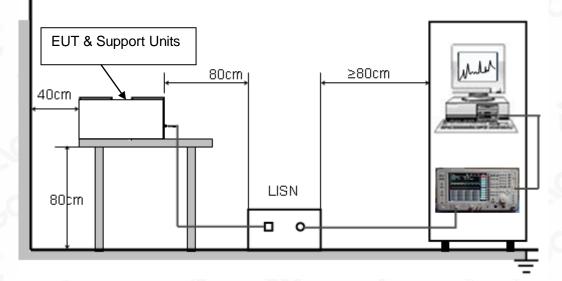
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage				
	Q.P.(dBuV)	Average(dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which received AC120V/60Hz power by a LISN..
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

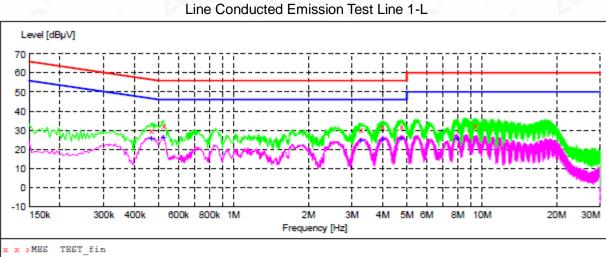
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.







12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

MEASUREMENT RESULT: "TEST fin"

2019/10/25 21	1:36						
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.466000	29.90	10.8	57	26.7	QP	L1	FLO
0.522000	32.40	10.9	56	23.6	QP	L1	FLO
3.250000	30.40	11.4	56	25.6	QP	L1	FLO
3.978000	31.70	11.4	56	24.3	QP	L1	FLO
4.734000	32.20	11.5	56	23.8	QP	L1	FLO
9.390000	32.50	11.7	60	27.5	QP	L1	FLO

MEASUREMENT RESULT: "TEST fin2"

2019/10/25 21	:36							
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.466000	25 40	10.0	47	21.2			PT O	
0.466000	25.40	10.8	47	21.2	AV	L1	FLO	
0.522000	26.00	10.9	46	20.0	AV	Ll	FLO	
3.242000	24.40	11.4	46	21.6	AV	L1	FLO	
3.986000	25.30	11.4	46	20.7	AV	L1	FLO	
4.734000	25.70	11.5	46	20.3	AV	L1	FLO	
7.942000	25.80	11.6	50	24.2	AV	L1	FLO	



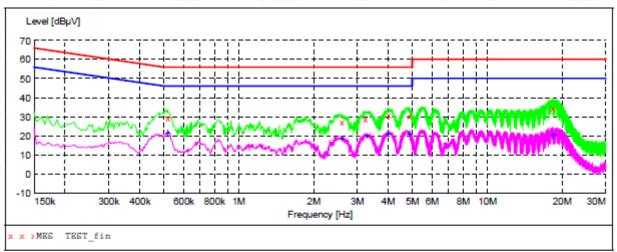
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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

20	19/10/25 21:	41						
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.518000	29.30	10.9	56	26.7	OP	N	FLO
						~		
	2.586000	27.30	11.3	56	28.7	QP	N	FLO
	3.218000	28.90	11.4	56	27.1	QP	N	FLO
	3.994000	30.80	11.4	56	25.2	QP	N	FLO
	4.850000	30.40	11.5	56	25.6	QP	N	FLO
	18.210000	34.50	12.5	60	25.5	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

2019/10/25 21	:41							
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	
0.518000	21.60	10.9	46	24.4	AV	N	FLO	
2.602000	18.20	11.3	46	27.8	AV	N	FLO	
3.266000	19.70	11.4	46	26.3	AV	N	FLO	
3.982000	21.10	11.4	46	24.9	AV	N	FLO	
4.846000	20.90	11.5	46	25.1	AV	N	FLO	
18.350000	20.40	12.5	50	29.6	AV	N	FLO	

RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.



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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ





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CONDUCTED EMISSION TEST SETUP





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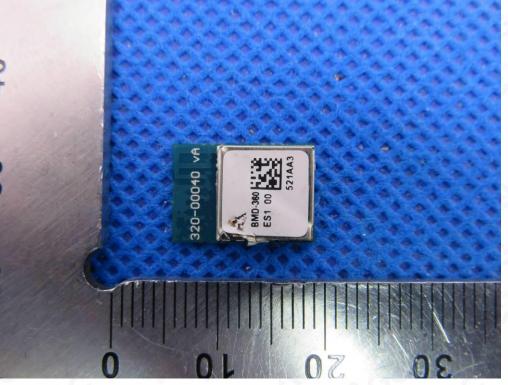
 Tel:
 +86-755 2523 4088
 E-mail: agc@agc-cert.com
 Service Hotline:400 089 2118



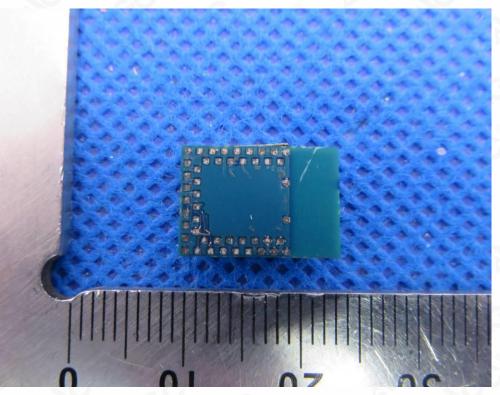
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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT





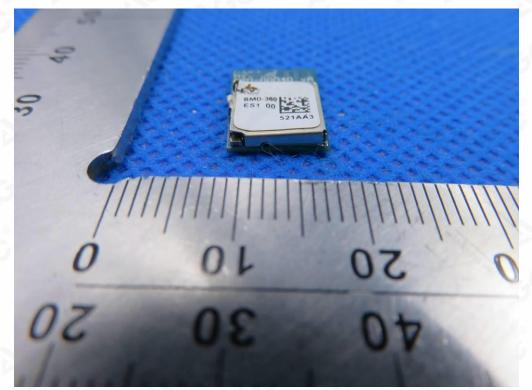
Attestation of Global Compliance(Shenzhen)Co.,Ltd. Add: 2/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail:agc@agc-cert.com Service

Service Hotline: 400 089 2118

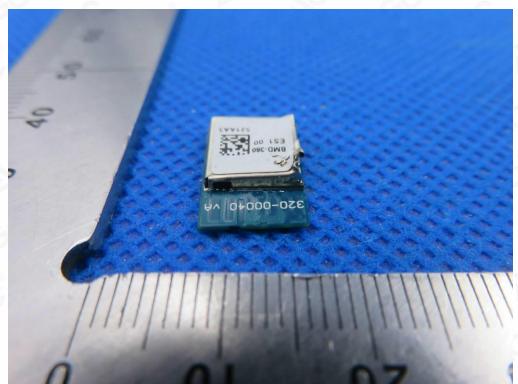


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FRONT VIEW OF EUT



BACK VIEW OF EUT



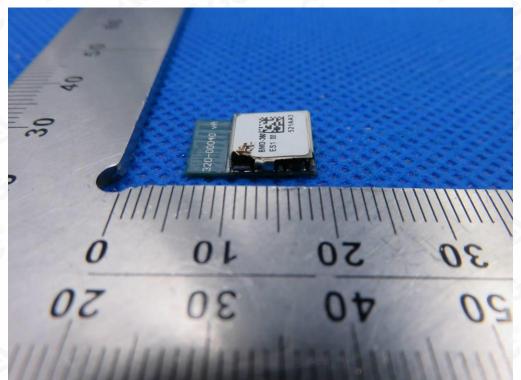


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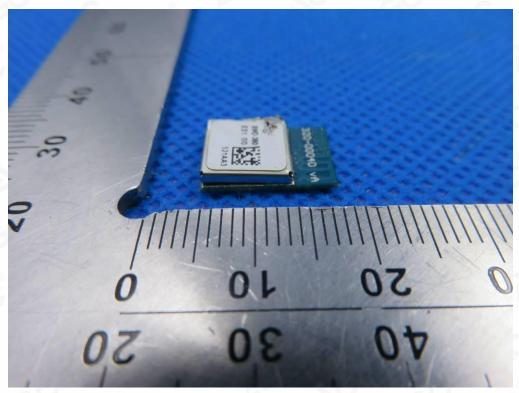


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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



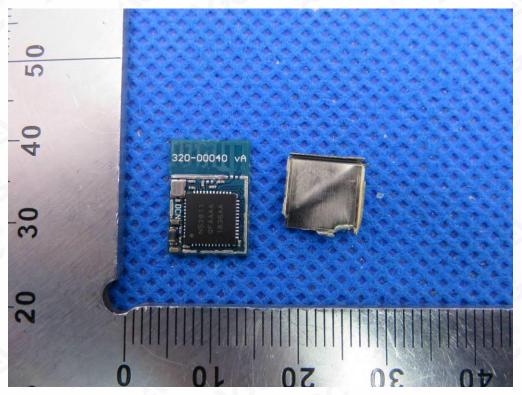


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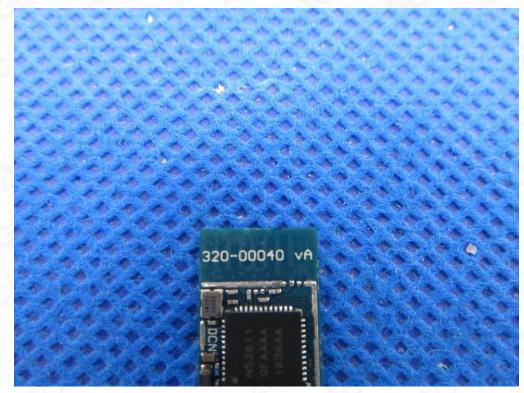


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OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1





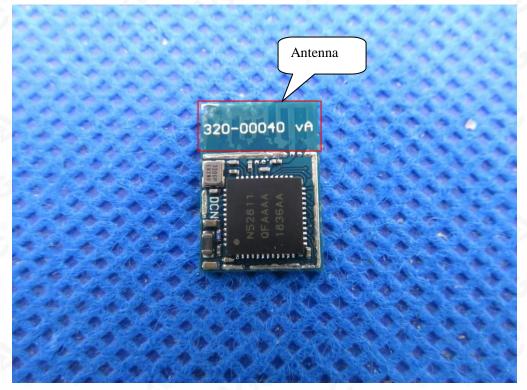
Attestation of Global Compliance(Shenzhen)Co.,Ltd. Add: 2/F., Building 2,Sanwei Chaxi Industrial Park, Sanwei Community,

Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Service Hotline:400 089 2118



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INTERNAL VIEW OF EUT-2



----END OF REPORT----



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