

# TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL

# TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



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# **11. RADIATED EMISSION**

#### **11.1. MEASUREMENT PROCEDURE**

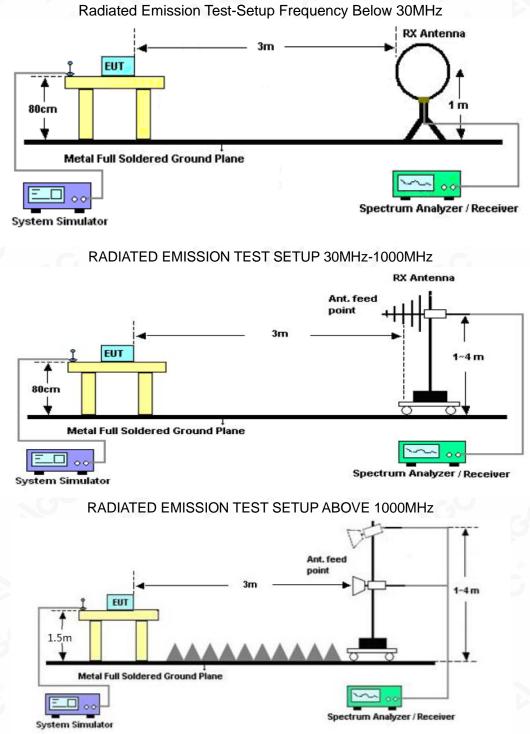
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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 emission, 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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# 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 (microvolts/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**

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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JT		Bluetoc	Bluetooth moduleModel Name25° CRelative Huit		Model N	Model Name		BT691	
emperat	ure	25° C			e Humidity	55.4%	1%		
essure		960hPa Test Voltage		Itage	Normal Voltage				
est Mod	9	Mode 3	3	20	Antenn	Antenna		Horizontal	
	130			FCC PART	15C				
	120								
	110								
	100								
	90								
	80								
Ē	70								
Bul	60								
Level[dBµV/m]	50								
ē	40								
	30 81					<b>88</b> <sup>5</sup> ∞6	a su sheere	and the second of the second o	
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	QP L QP D		ontal PK	Frequency	[Hz]				
			<b>-</b> (						
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	30.9700	31.01	10.02	40.00	8.99	100	177	Horizontal	
2	64.9200	26.93	10.09	40.00	13.07	100	210	Horizontal	
3	99 8400	25 73	11 30	43 50	17 77	100	346	Horizontal	

# **RADIATED EMISSION BELOW 1GHZ**

99.8400 25.73 11.30 43.50 17.77 100 346 Horizontal 3 159.980 24.75 14.94 43.50 18.75 100 120 Horizontal 4 5 315.180 34.09 16.48 46.00 11.91 200 183 Horizontal 366.590 6 30.75 18.50 46.00 15.25 100 70 Horizontal

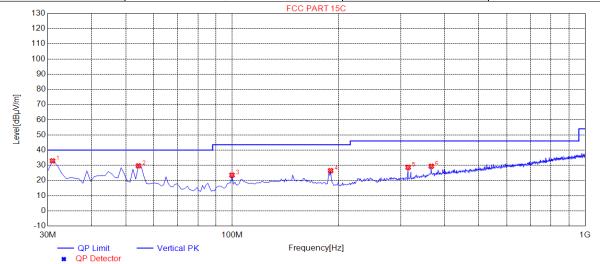
#### **RESULT: PASS**

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### Report No.: AGC03285201201FE02 Page 31 of 49

EUT	Bluetooth module	Model Name	FSC-BT691
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.9700	32.89	10.02	40.00	7.11	100	90	Vertical
2	54.2500	29.63	11.35	40.00	10.37	100	120	Vertical
3	99.8400	23.52	11.30	43.50	19.98	100	253	Vertical
4	190.050	26.46	12.53	43.50	17.04	100	0	Vertical
5	315.180	28.65	16.48	46.00	17.35	100	27	Vertical
6	366.590	29.36	18.50	46.00	16.64	100	54	Vertical

#### RESULT: PASS Note:

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

2. All test modes had been tested. The mode 3 is the worst case and recorded in the report.

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EUT	Bluetooth module	Model Name	FSC-BT691
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

# **RADIATED EMISSION ABOVE 1GHZ**

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	46.97	0.08	47.05	74	-26.95	peak
4804.000	36.86	0.08	36.94	54	-17.06	AVG
7206.000	39.65	2.21	41.86	74	-32.14	peak
7206.000	32.74	2.21	34.95	54	-19.05	AVG
60		8			0	8
Remark:					10	-0
actor = Anter	na Factor + Cab	le Loss – Pre-	amplifier.	0		

EUT	Bluetooth module	Model Name	FSC-BT691
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4804.000	45.82	0.08	45.9	74	-28.1	peak
4804.000	35.71	0.08	35.79	54 💿	-18.21	AVG
7206.000	39.53	2.21	41.74	74	-32.26	peak
7206.000	31.68	2.21	33.89	54	-20.11	AVG
		NOC-		©		69
emark:						

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

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EUT	Bluetooth module	Model Name	FSC-BT691
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 Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4880.000	47.47	0.14	47.61	74	-26.39	peak
4880.000	36.32	0.14	36.46	54	-17.54	AVG
7320.000	40.62	2.36	42.98	74	-31.02	peak
7320.000	33.54	2.36	35.9	54	-18.1	AVG
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actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			- C
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EUT	Bluetooth module	Model Name	FSC-BT691
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	47.59	0.14	47.73	74	-26.27	peak
4880.000	39.32	0.14	39.46	54	-14.54	AVG
7320.000	41.47	2.36	43.83	74	-30.17	peak
7320.000	33.62	2.36	35.98	54	-18.02	AVG
			8			
				0		

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

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EUT	Bluetooth module	Model Name	FSC-BT691
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.88	0.22	46.1	74	-27.9	peak
4960.000	36.47	0.22	36.69	54	-17.31	AVG
7440.000	39.52	2.64	42.16	74	-31.84	peak
7440.000	30.46	2.64	33.1	54	-20.9	AVG
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actor = Anter	na Factor + Cable	Loss – Pre-	amplifier.			

EUT	Bluetooth module	Model Name	FSC-BT691
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	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4960.000	45.68	0.22	45.9	74	-28.1	peak
4960.000	35.95	0.22	36.17	54	-17.83	AVG
7440.000	39.73	2.64	42.37	74	-31.63	peak
7440.000	30.48	2.64	33.12	54	-20.88	AVG
mark:	500	-G				GO

Factor = Antenna Factor + Cable Loss – Pre-amplifier

# **RESULT: PASS**

#### Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level -Limit.

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

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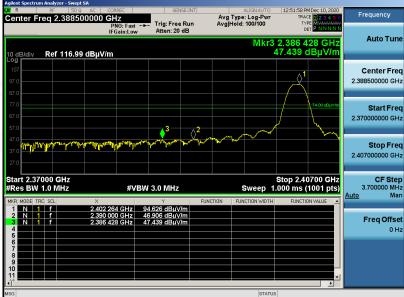


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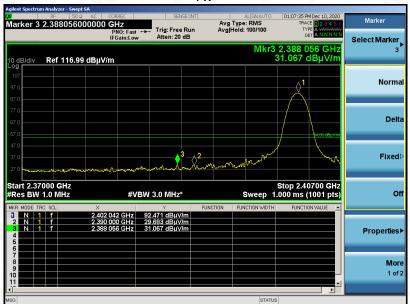
EUT	Bluetooth module	Model Name	FSC-BT691
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

# TEST RESULT FOR RESTRICTED BANDS REQUIREMENTS

ΡK



AV



**RESULT: PASS** 

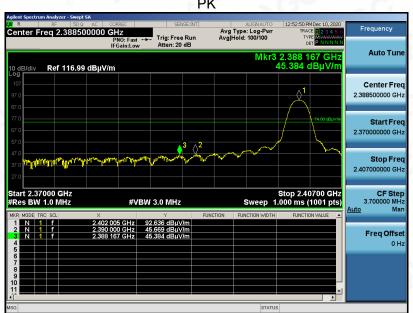
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EUT	Bluetooth module	Model Name	FSC-BT691
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
		DIZ	



AV Marker Avg Type: RMS Avg|Hold: 100/100 3 2.387760000000 GHz Trig: Free Run Atten: 20 dB PNO: F Select Marker Mkr3 2.387 76 28,497 dl Ref 116.99 dBµV/m Norma Delta Fixed Stop 2.40700 GHz Sweep 1.000 ms (1001 pts) 2.37000 GHz BW 1.0 MHz #VBW 3.0 MHz\* Of 90.670 dBµV/ 25.097 dBµV/ 28.497 dBµV/ 2.402 042 GHz 2.390 000 GHz 2.387 760 GHz Properties More 1 of 2

**RESULT: PASS** 

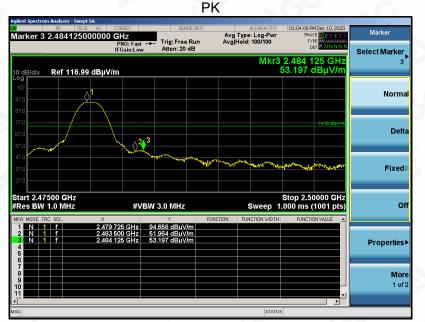
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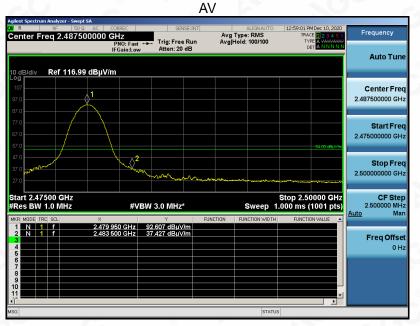
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EUT	Bluetooth module	Model Name	FSC-BT691
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal
	DI		





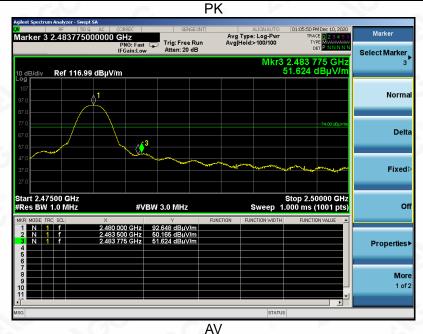
**RESULT: PASS** 

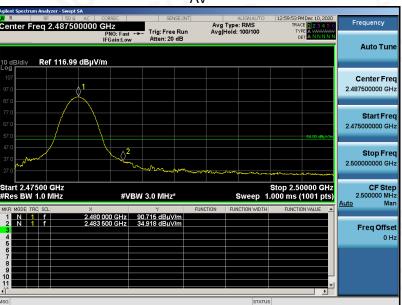
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EUT	Bluetooth module	Model Name	FSC-BT691
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical





# **RESULT: PASS Note**: The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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# **12. FCC LINE CONDUCTED EMISSION TEST**

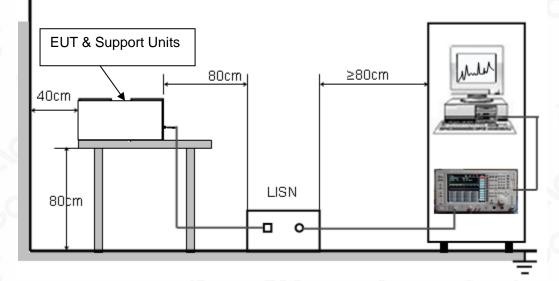
# **12.1. LIMITS OF LINE CONDUCTED EMISSION TEST**

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

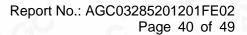
Note:

- 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 equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 3.3V power from control board which received AC120V/60Hz power from 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.

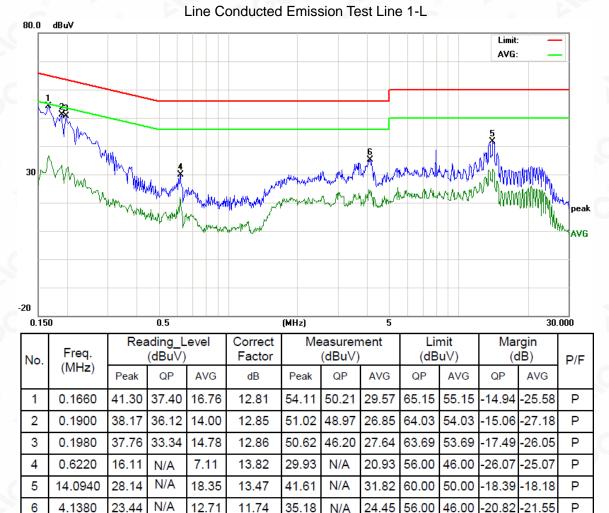
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

# 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.

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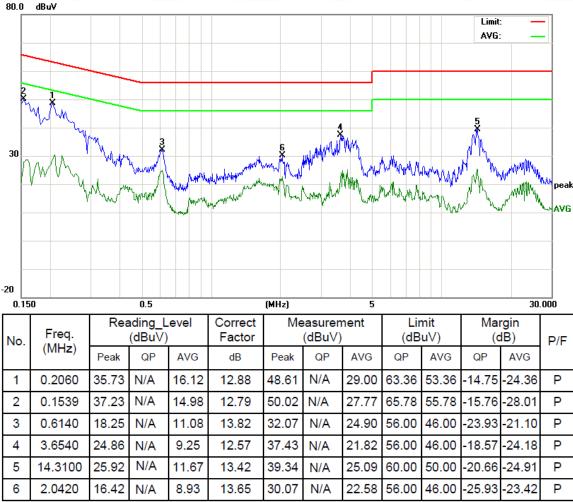


### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the been sta



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Line Conducted Emission Test Line 2-N

#### **RESULT: PASS**

Note: All the test modes had been tested, the mode 3 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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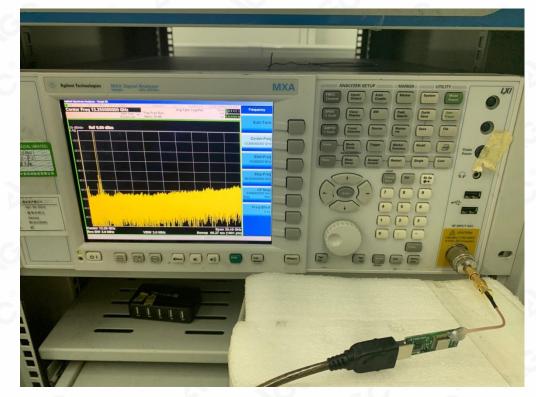


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CONDUCTED EMISSION TEST SETUP

CONDUCTED TEST SETUP



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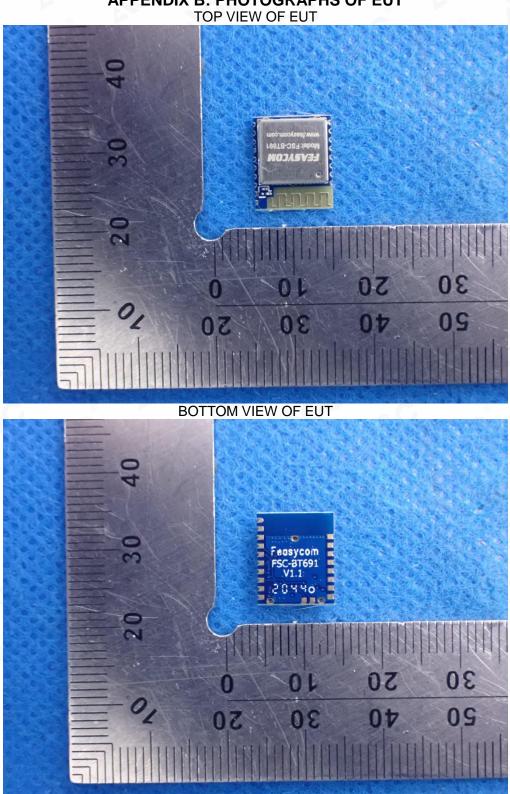
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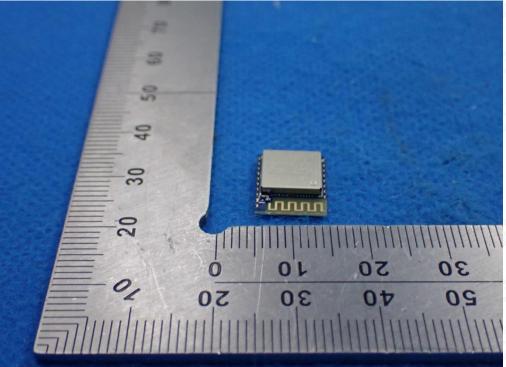
**APPENDIX B: PHOTOGRAPHS OF EUT** 

"Bedicated Fest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "bedicated restriction of Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter approver, and the test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. The test results

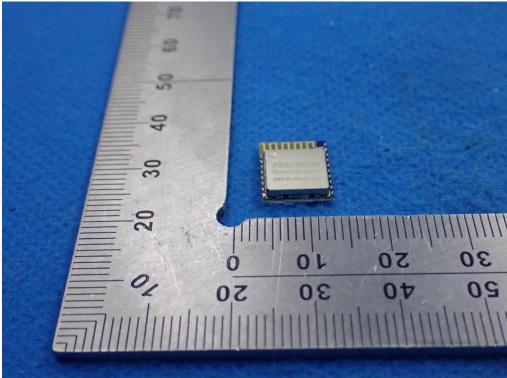


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#### FRONT VIEW OF EUT



BACK VIEW OF EUT



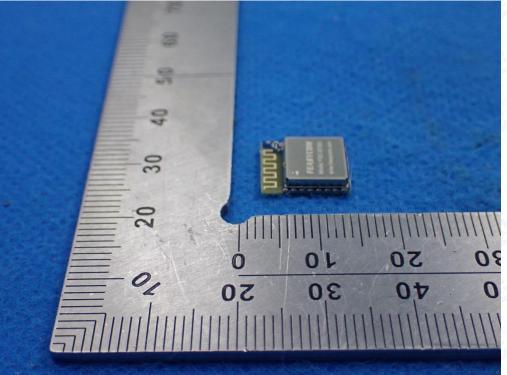
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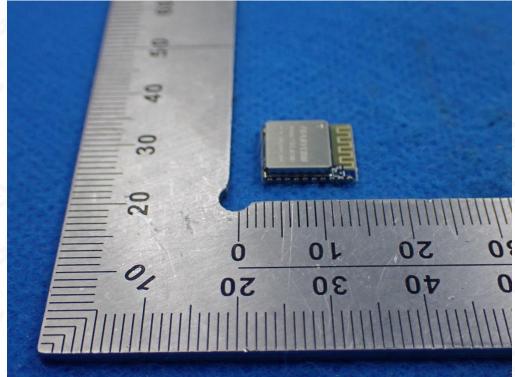


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#### LEFT VIEW OF EUT



**RIGHT VIEW OF EUT** 



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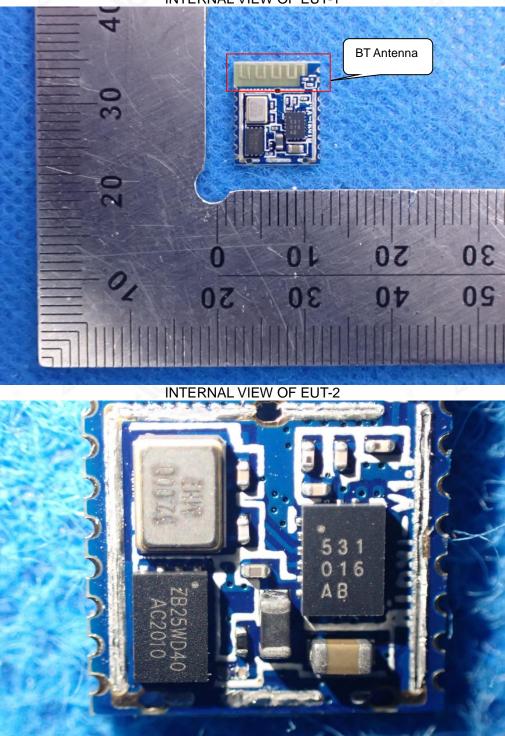
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**INTERNAL VIEW OF EUT-1** 

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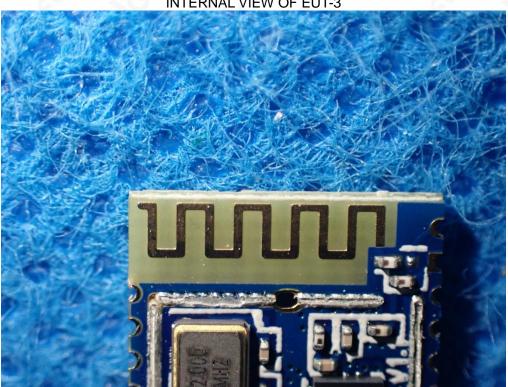
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# **INTERNAL VIEW OF EUT-3**

--END OF REPORT---

Compliancest Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Bedicated Pest Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15day after the issues of Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com. g/Inspection The test results ce of the test report.



#### Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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