

FCC Test Report

Report No.: AGC02101180102FE03

FCC ID : 2AGPMHJ-580CY

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION : HongJia electronic bluetooth BLE4.2 ultra-low power

module

BRAND NAME : HongJia

MODEL NAME : HJ-580CY, HJ-580X, HJ-580B, HJ-580T,

HJ-580LA, HJ-580

CLIENT: Tangshan HongJia electronic technology co., LTD.

DATE OF ISSUE : Feb. 05, 2018

STANDARD(S)

TEST PROCEDURE(S)

: FCC Part 15 Subpart C Section 15.249

REPORT VERSION: V1.0

Attestation of Global compliance (Shenzhen) Co., Ltd

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	Jumes 1 8 Filter	Feb. 05, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Applicant	Tangshan HongJia electronic technology co., LTD.
Address	352 No. 2 # building power springs in Qianxi County, Tangshan City, Hebei Province
Manufacturer	Tangshan HongJia electronic technology co., LTD.
Address	352 No. 2 # building power springs in Qianxi County, Tangshan City, Hebei Province
Product Designation	HongJia electronic bluetooth BLE4.2 ultra-low power module
Brand Name	HongJia
Test Model	HJ-580CY
Series Model	HJ-580XP, HJ-580X, HJ-580B, HJ-580T, HJ-580LA, HJ-580
Difference description	All the same except for the model name
Date of test	Jan. 25, 2018 to Jan. 31, 2018
Deviation	None
Condition of Test Sample	Normal The state of the state o
Report Template	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249. The test results of this report relate only to the tested sample identified in this report.

Tested By	Jonhen Wang	在 测
	Jonhen Wang(Wang Yonghuan)	Jan. 31, 2018
Reviewed By	Forrest ce	
	Forrest Lei(Lei Yonggang)	Feb. 05, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	-3.67dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE □GFSK
Number of channels	40 for BLE
Hardware Version	V2.0
Software Version	V2.1
Antenna Designation	PCB Antenna
Antenna Gain	2dBi
Power Supply	DC 3V

2.2. TABLE OF CARRIER FREQUENCYS

BLE Channel List

Frequency Band	Channel Number	Frequency
(S) Millestation of Clode (S) Alternation of C	00	2402MHz
CO	1 Kingdone	2404MHz
2400~2483.5MHz	The companies @ Management of the second	CO CO
e a standard Code Co	38	2478 MHz
GC SGO	39	2480 MHz

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3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±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 = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

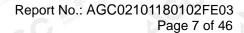
4. DESCRIPTION OF TEST MODES

NO.		TEST MODE DESCRIPTION
8	The of Global S	Low channel GFSK
CO	2	Middle channel GFSK
	3	High channel GFSK
* TIM	4 K Managara	BT Link with charging
3 poal Cours	5 on of Cloban	BT Link

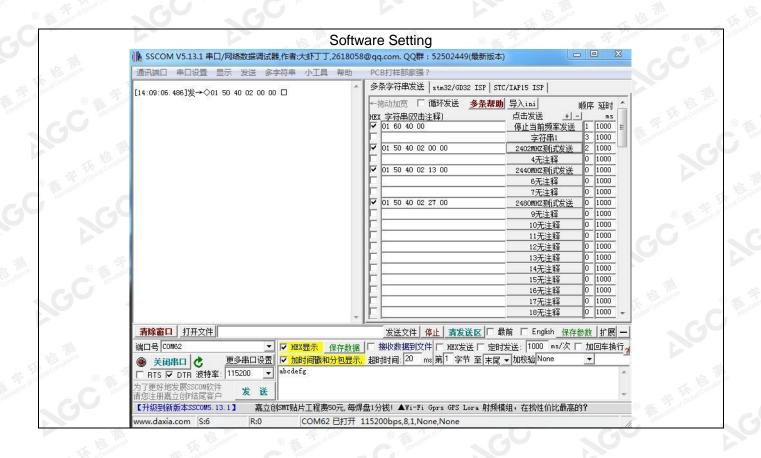
Note:

- 1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The EUT used fully-charged battery when tested.

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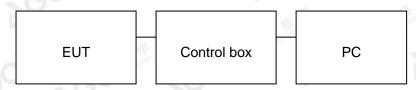
5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

on men				
Equipment	Mfr/Brand	Model/Type No.	Remark	
HongJia electronic bluetooth BLE4.2 ultra-low power module	HongJia HJ-580CY		EUT	
Mobile phone	Vivo	X5	A.E	
Control box	DOFLY	N/A	A.E	
End Product	VivaCheck	105B000000E	A.E	
Adapter	IPRO	NTR-S01	A.E	
USB Cable	N/A	1m unshielded	A.E	
	Equipment HongJia electronic bluetooth BLE4.2 ultra-low power module Mobile phone Control box End Product Adapter	Equipment Mfr/Brand HongJia electronic bluetooth BLE4.2 ultra-low power module HongJia Mobile phone Vivo Control box DOFLY End Product VivaCheck Adapter IPRO	Equipment Mfr/Brand Model/Type No. HongJia electronic bluetooth BLE4.2 ultra-low power module HongJia HJ-580CY Mobile phone Vivo X5 Control box DOFLY N/A End Product VivaCheck 105B000000E Adapter IPRO NTR-S01	

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5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249(a) §15.209	Radiated Emission	Compliant
§15.249(d)	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	Compliant

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6. TEST FACILITY

part and the second sec			
Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd		
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012		
NVLAP Lab Code	600153-0		
Designation Number	CN5028		
Test Firm Registration Number	682566		
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0		

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7. TEST METHOD

All measurements contained in this report were conducted with ANSI C63.10-2013

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.20, 2017	Jun.19, 2018
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	C	Mar. 01, 2016	Feb. 28, 2018

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9. RADIATED EMISSION

9.1. TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics
Frequency	(millivolts/meter)	(microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

Standard FCC 15.209

Frequency	Distance	Field Str	engths Limit
(MHz)	Meters	μ V/m	dB(μV)/m
0.009 ~ 0.490	300	2400/F(kHz)	2
0.490 ~ 1.705	30	24000/F(kHz)	E
1.705 ~ 30	30	30	Se Se Colonico Coloni
30 ~ 88	3 3 To a 1 To a	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3 CC	Other:74.0 dB(μV)/m (Average)	(Peak) 54.0 dB(μV)/m

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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9.2. MEASUREMENT PROCEDURE

- 1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
- 2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
- 3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
- 4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
- 6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak & AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

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The following table is the setting of spectrum analyzer and receiver.

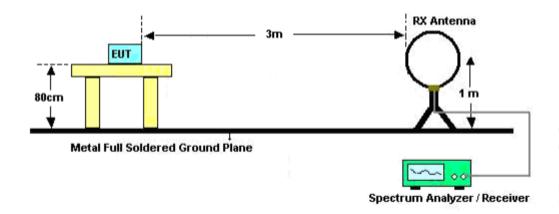
	Spectrum Parameter	Setting
Joal Comp.	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
CC MILES	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Manager of Global Co	Start ~Stop Frequency	1GHz~26.5GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 1.5MHz/ VBW 10Hz for Average
	Receiver Parameter	Setting
(8) #M-	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
4 C A M	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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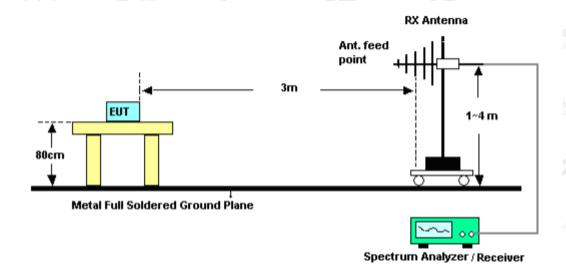


9.3. TEST SETUP

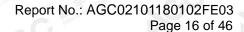
RADIATED EMISSION TEST-SETUP FREQUENCY BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz

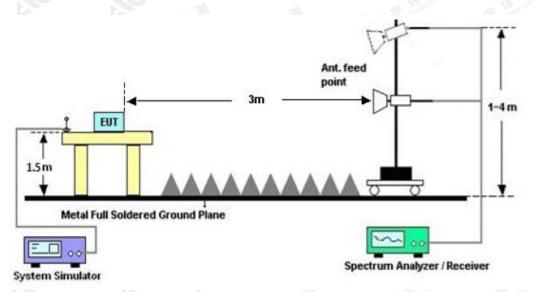


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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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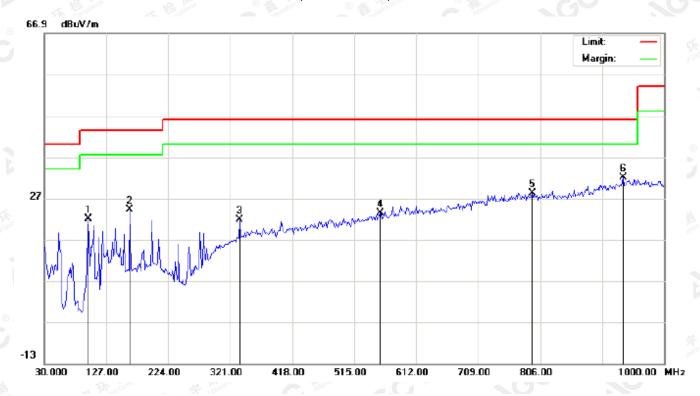
9.4. TEST RESULT FOR BLE

RADIATED EMISSION BELOW 30MHz

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

RADIATED EMISSION BELOW 1GHz

RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu√/m	dB		cm	degree	
1		99.5167	12.09	10.00	22.09	43.50	-21.41	peak			
2		164.1833	13.77	10.48	24.25	43.50	-19.25	peak			
3		335.5500	4.03	17.78	21.81	46.00	-24.19	peak			
4		555.4167	0.83	22.62	23.45	46.00	-22.55	peak			
5		793.0667	1.01	27.22	28.23	46.00	-17.77	peak			
6	*	935.3333	2.51	29.59	32.10	46.00	-13.90	peak		·	

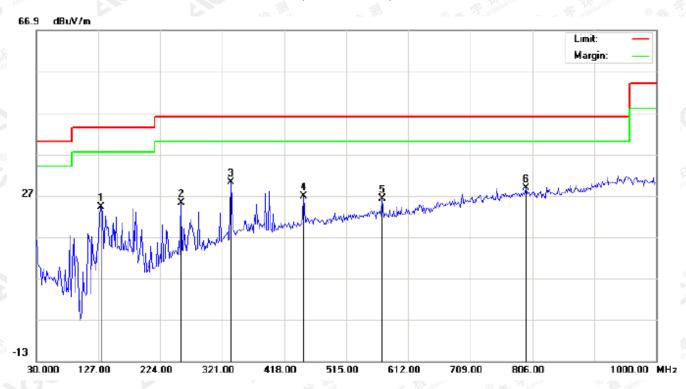
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		131.8500	12.46	11.80	24.26	43.50	-19.24	peak			
2		256.3333	11.06	14.09	25.15	46.00	-20.85	peak			
3	*	333.9333	12.57	17.67	30.24	46.00	-15.76	peak			
4		448.7167	6.18	20.55	26.73	46.00	-19.27	peak			
5		571.5833	3.71	22.59	26.30	46.00	-19.70	peak			
6		796.3000	1.45	27.27	28.72	46.00	-17.28	peak			

RESULT: PASS

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

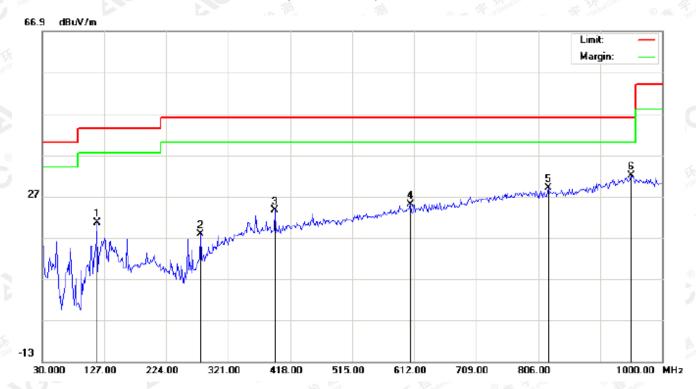
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1		115.6833	13.73	6.86	20.59	43.50	-22.91	peak			
2		277.3500	6.18	11.55	17.73	46.00	-28.27	peak			
3		393.7500	4.54	19.03	23.57	46.00	-22.43	peak			
4		605.5333	1.28	23.74	25.02	46.00	-20.98	peak			
5		822.1667	1.61	27.32	28.93	46.00	-17.07	peak			
6	*	951.5000	2.00	29.99	31.99	46.00	-14.01	peak			

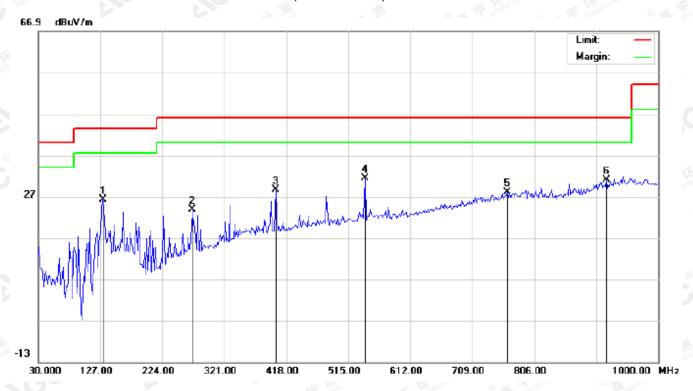
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		131.8500	14.47	11.80	26.27	43.50	-17.23	peak			
2		270.8833	9.29	14.53	23.82	46.00	-22.18	peak			
3		401.8333	9.39	19.13	28.52	46.00	-17.48	peak			
4	*	540.8667	9.14	22.23	31.37	46.00	-14.63	peak			
5		763.9667	1.25	26.82	28.07	46.00	-17.93	peak			
6		919.1667	1.85	29.14	30.99	46.00	-15.01	peak			

RESULT: PASS

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

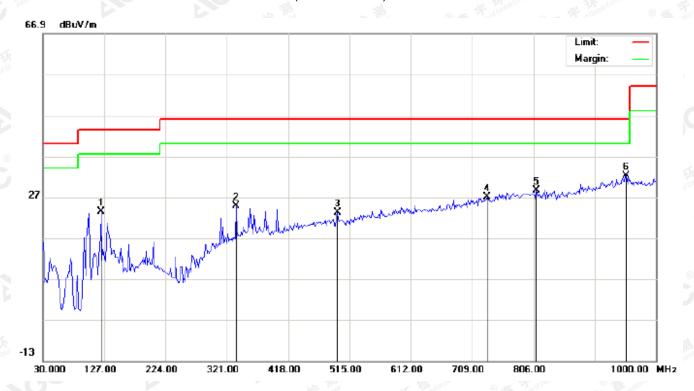
2. The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		122.1500	16.47	6.86	23.33	43.50	-20.17	peak			
2		335.5500	7.03	17.78	24.81	46.00	-21.19	peak			
3		495.6000	2.04	21.08	23.12	46.00	-22.88	peak			
4		733.2500	0.81	26.16	26.97	46.00	-19.03	peak			
5		810.8500	1.29	27.32	28.61	46.00	-17.39	peak			
6	*	953.1167	2.27	29.97	32.24	46.00	-13.76	peak			

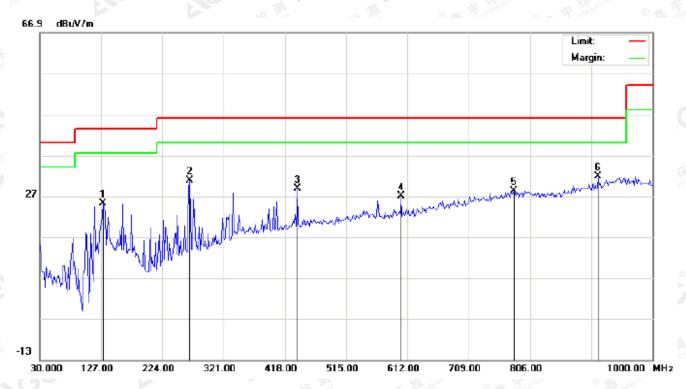
RESULT: PASS

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RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL -VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		130.2333	14.12	11.13	25.25	43.50	-18.25	peak			
2		267.6500	16.44	14.43	30.87	46.00	-15.13	peak			
3		437.4000	8.60	20.21	28.81	46.00	-17.19	peak			
4		602.3000	4.22	22.78	27.00	46.00	-19.00	peak			
5		780.1333	1.07	27.05	28.12	46.00	-17.88	peak			
6	*	914.3167	2.88	29.01	31.89	46.00	-14.11	peak			

RESULT: PASS

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

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

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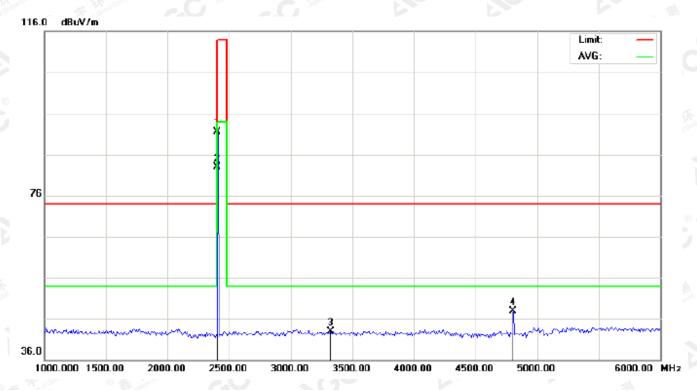


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RADIATED EMISSION ABOVE 1GHz

FOR BLE

RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		2402.000	81.21	10.32	91.53	114.00	-22.47	peak			
2	*	2402.000	72.64	10.32	82.96	94.00	-11.04	AVG	100	231	
3		3325.000	30.94	11.95	42.89	74.00	-31.11	peak			
4		4804.000	40.24	7.69	47.93	74.00	-26.07	peak	·	·	

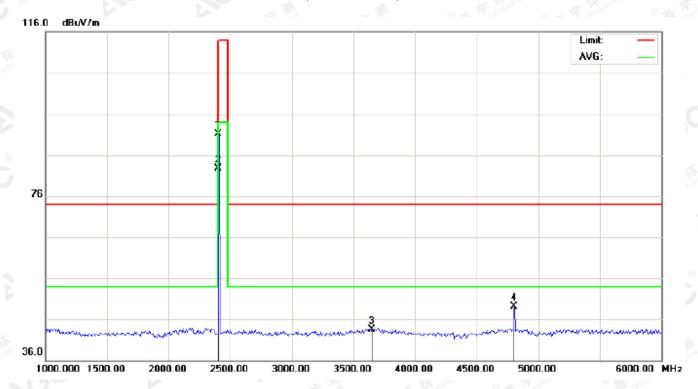
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-LOW CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2402.000	80.82	10.32	91.14	114.00	-22.86	peak			
2	*	2402.000	72.29	10.32	82.61	94.00	-11.39	AVG	100	15	
3		3650.000	30.42	13.03	43.45	74.00	-30.55	peak			
4		4804.000	41.38	7.69	49.07	74.00	-24.93	peak			

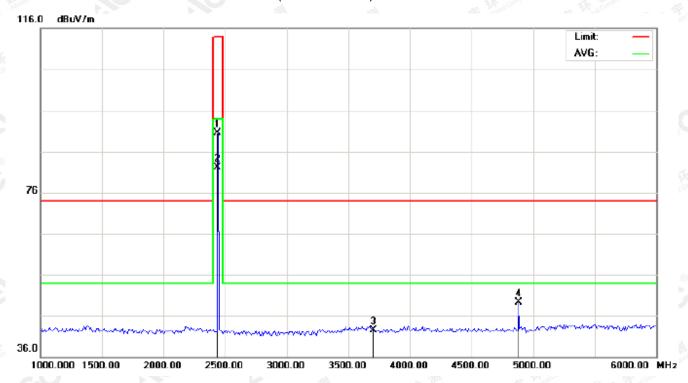
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL-HORIZONTAL



No). N	Мk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		. [MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1			2440.000	80.24	10.36	90.60	114.00	-23.40	peak			
2	T	*	2440.000	71.77	10.36	82.13	94.00	-11.87	AVG	100	237	
3			3700.000	29.21	13.34	42.55	74.00	-31.45	peak			
4			4880.000	41.38	7.89	49.27	74.00	-24.73	peak			

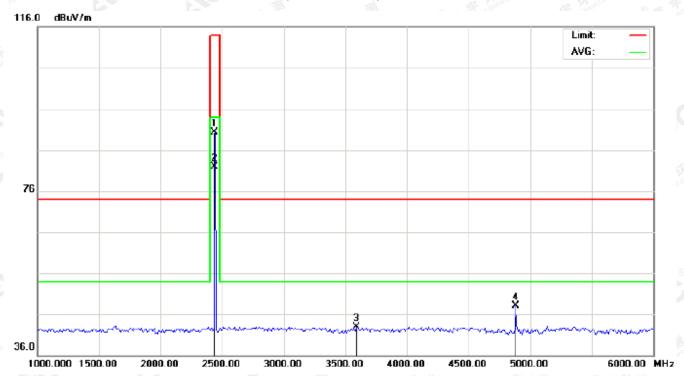
RESULT. PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-MIDDLE CHANNEL- VERTICAL



No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2440.000	79.99	10.36	90.35	114.00	-23.65	peak			
2	*	2440.000	71.46	10.36	81.82	94.00	-12.18	AVG	100	11	
3		3591.667	30.21	12.67	42.88	74.00	-31.12	peak			
4		4880.000	40.31	7.89	48.20	74.00	-25.80	peak			

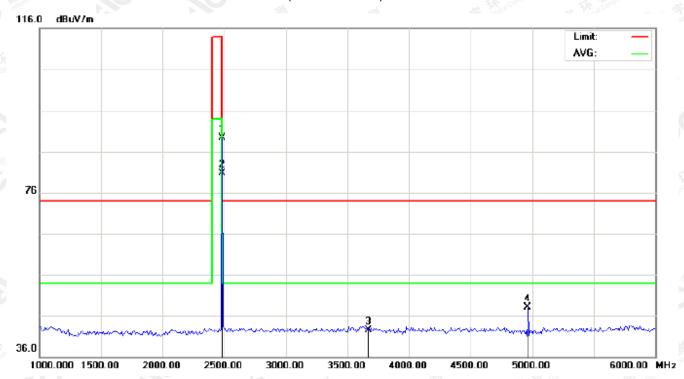
RESULT: PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB		cm	degree	
1		2480.000	78.97	10.41	89.38	114.00	-24.62	peak			
2	*	2480.000	70.34	10.41	80.75	94.00	-13.25	AVG	100	229	
3		3666.667	29.36	13.14	42.50	74.00	-31.50	peak			
4		4960.000	40.01	8.09	48.10	74.00	-25.90	peak			

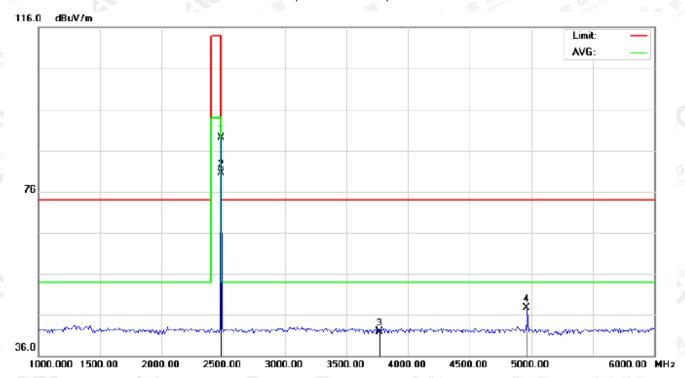
RESULT. PASS

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RADIATED EMISSION TEST- (ABOVE 1GHz)-HIGH CHANNEL- VERTICAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2480.000	78.69	10.41	89.10	114.00	-24.90	peak			
2	*	2480.000	70.00	10.41	80.41	94.00	-13.59	AVG	100	9	
3		3766.667	28.18	13.75	41.93	74.00	-32.07	peak			
4		4960.000	39.66	8.09	47.75	74.00	-26.25	peak			

RESULT: PASS

Note: 6~25GHz at least have 20dB margin. No recording in the test report.

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

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

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Field strength of the fundamental signal

1Mbps Result:

Peak value

Frequency	Reading Level	- I Factor I Weastirement I		Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	81.21	10.32	91.53	114	-22.47	Horizontal	
2402	80.82	10.32	91.14	114	-22.86	Vertical	
2440	80.24	10.36	90.60	114	-23.40	Horizontal	
2440	79.99	10.36	90.35	114	-23.65	Vertical	
2480	78.97	10.41	89.38	114	-24.62	Horizontal	
2480	78.69	10.41	89.10	114	-24.90	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	72.64	10.32	82.96	94	-11.04	Horizontal	
2402	72.29	10.32	82.61	94	-11.39	Vertical	
2440	71.77	10.36	82.13	94	-11.87	Horizontal	
2440	71.46	10.36	81.82	94	-12.18	Vertical	
2480	70.34	10.41	80.75	94	-13.25	Horizontal	
2480	70.00	10.41	80.41	94	-13.59	Vertical	

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10. BAND EDGE EMISSION

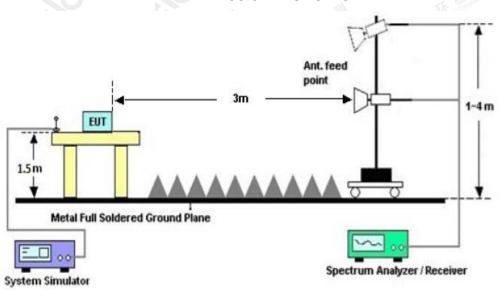
10.1. MEASUREMENT PROCEDURE

- The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
- 2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.
- 3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(MHz)	Stop frequency(MHz)				
2200	2405				
2478	2500				

10.2 TEST SETUP

RADIATED EMISSION TEST SETUP



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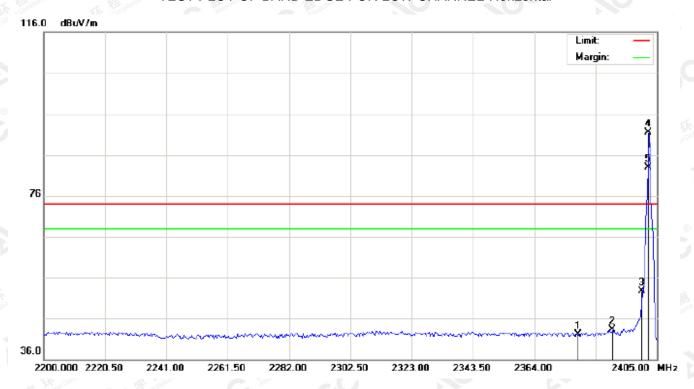


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10.3 RADIATED TEST RESULT

FOR BLE

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal



4	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
	1		2378.692	31.83	10.30	42.13	74.00	-31.87	peak			
	2		2390.000	33.00	10.31	43.31	74.00	-30.69	peak			
	3		2400.000	42.47	10.32	52.79	74.00	-21.21	peak			
	4	*	2402.000	81.22	10.32	91.54	74.00	17.54	peak			
	5	Х	2402.000	72.66	10.32	82.98	74.00	8.98	AVG	100	235	

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



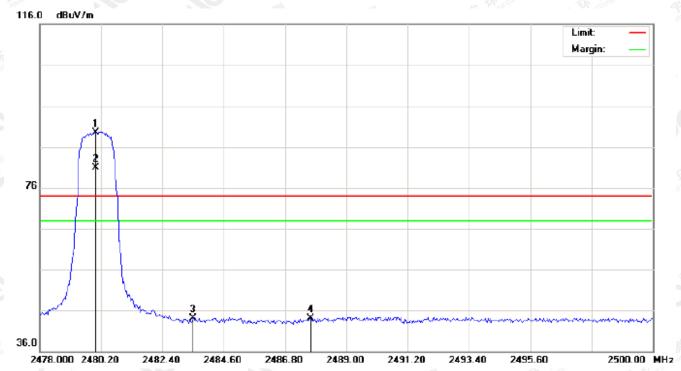
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2376.642	32.09	10.29	42.38	74.00	-31.62	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	36.06	10.32	46.38	74.00	-27.62	peak			
4	*	2402.000	81.09	10.32	91.41	74.00	17.41	peak			
5	Х	2402.000	72.32	10.32	82.64	74.00	8.64	AVG	100	16	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



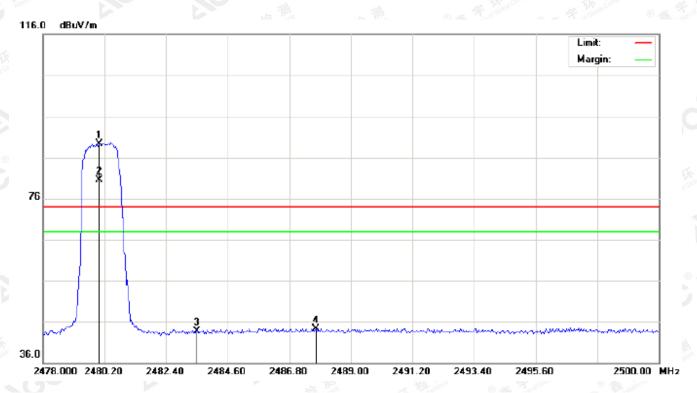
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	79.05	10.41	89.46	74.00	15.46	peak			
2	Х	2480.000	70.41	10.41	80.82	74.00	6.82	AVG	100	233	15
3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak)
4		2487.716	33.68	10.42	44.10	74.00	-29.90	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	2480.000	78.82	10.41	89.23	74.00	15.23	peak			
2	Х	2480.000	70.06	10.41	80.47	74.00	6.47	AVG	100	13	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2487.753	33.95	10.42	44.37	74.00	-29.63	peak			

RESULT: PASS

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

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

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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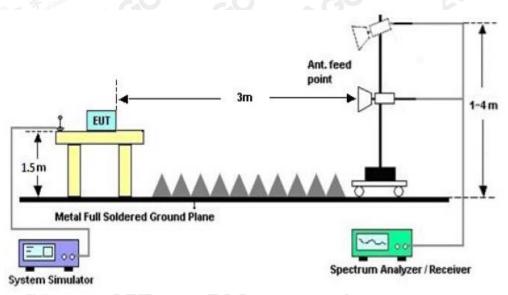
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 2. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ 3RBW; Sweep = auto; Detector function = peak
- 3. Set SPA Trace 1 Max hold, then View.

11.2. TEST SET-UP



11.3. LIMITS AND MEASUREMENT RESULTS

FOR BLE

. 17			101							
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result									
Applicable Limits		Dogult								
		99%OBW (MHz)	-20dB BW(MHz)	Result						
Country Company	Low Channel	1.080	1.279	PASS						
N/A	Middle Channel	1.065	1.255	PASS						
	High Channel	1.070	1.268	PASS						

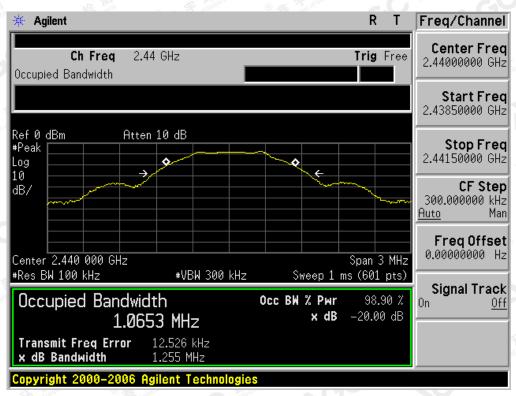
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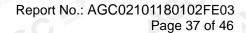
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

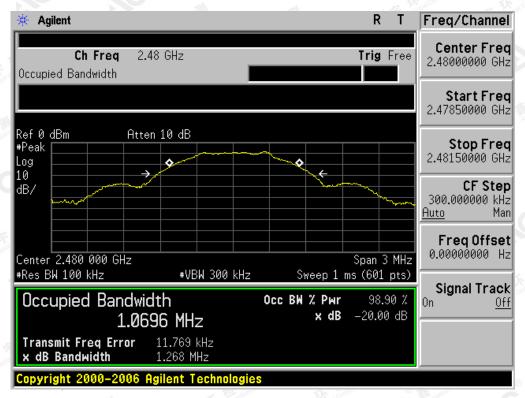


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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

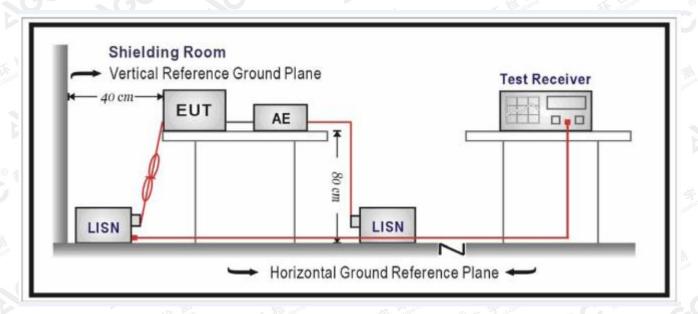
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	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

- 1. 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 voltage by adapter or PC which received 120V/60Hzpower 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.
- 2. 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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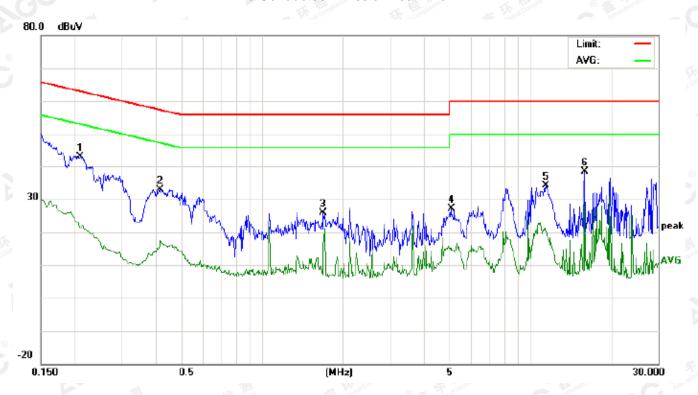
Report No.: AGC02101180102FE03 Page 40 of 46

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

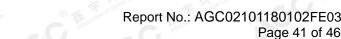
FOR BLE

Line Conducted Emission Test Line 1-L



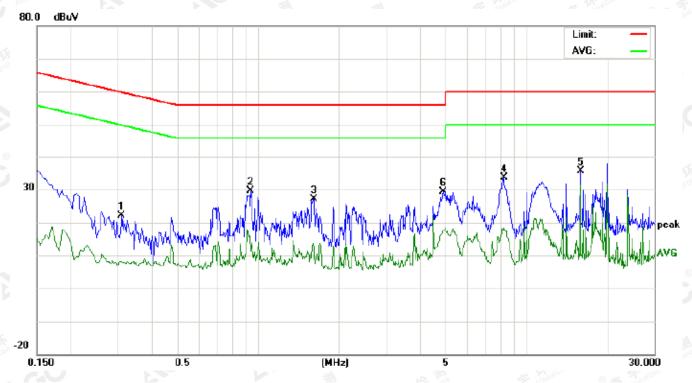
3	No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
			Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
	1	0.2100	32.77		11.08	10.23	43.00		21.31	63.20	53.20	-20.20	-31.89	Р	
	2	0.4148	22.49		5.27	10.34	32.83		15.61	57.55	47.55	-24.72	-31.94	Р	
	3	1.6940	15.55		5.92	10.32	25.87		16.24	56.00	46.00	-30.13	-29.76	Р	
3	4	5.0739	16.80		4.45	10.24	27.04		14.69	60.00	50.00	-32.96	-35.31	Р	
	5	11.4699	24.07		10.14	10.12	34.19		20.26	60.00	50.00	-25.81	-29.74	Р	
	6	16.0299	28.37		17.76	10.11	38.48		27.87	60.00	50.00	-21.52	-22.13	Р	

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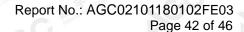


Line Conducted Emission Test Line 2-N



No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.3100	11.88		-2.20	10.29	22.17		8.09	59.97	49.97	-37.80	-41.88	Р	
2	0.9420	19.20		1.00	10.39	29.59		11.39	56.00	46.00	-26.41	-34.61	Р	
3	1.6140	16.79		2.35	10.34	27.13		12.69	56.00	46.00	-28.87	-33.31	Р	
4	8.2699	23.22		7.95	10.34	33.56		18.29	60.00	50.00	-26.44	-31.71	Р	
5	15.9299	25.57		21.39	10.11	35.68		31.50	60.00	50.00	-24.32	-18.50	Р	
6	4.9219	19.22		7.31	10.24	29.46		17.55	56.00	46.00	-26.54	-28.45	Р	

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



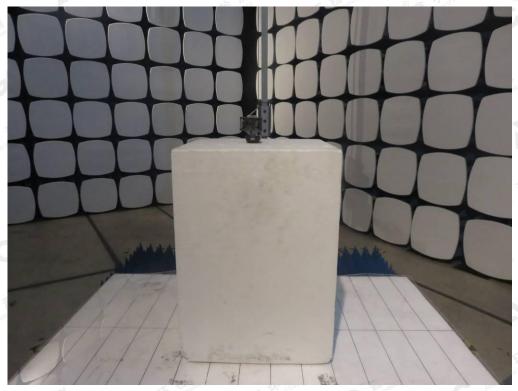
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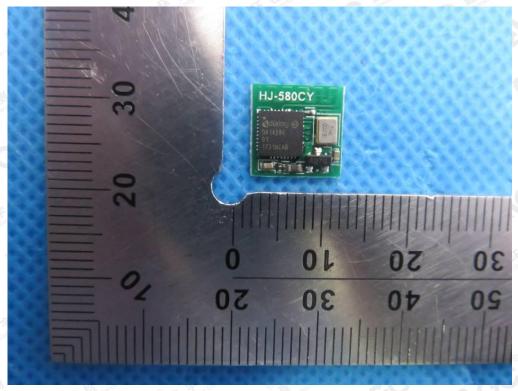


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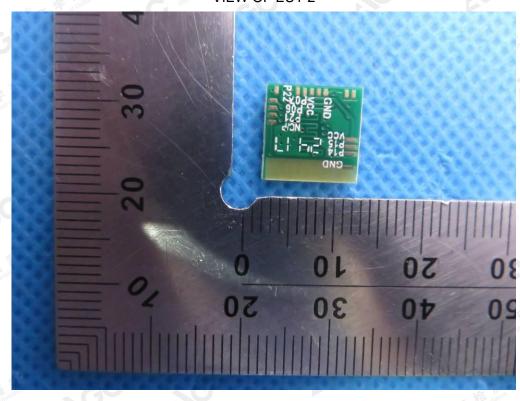


APPENDIX B: PHOTOGRAPHS OF EUT

VIEW OF EUT-1



VIEW OF EUT-2



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VIEW OF EUT-3



VIEW OF ADAPTER(AE)



The adapter was supplied by AGC

----END OF REPORT----

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