

FCC Test Report

Report No.: AGC02575180402FE04

FCC ID : 025BIT-2

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Bluetooth Helmet Headset

BRAND NAME : ChatterBox

MODEL NAME : BiT-2

CLIENT: Unimo Technology Co., Ltd.

DATE OF ISSUE : May 24, 2018

STANDARD(S) : FCC Part 15 Subpart C Section 15.247

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		May 24, 2018	Valid	Initial release

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1. VERIFICATION OF CONFORMITY

Unimo Technology Co., Ltd.
4th Floor, 162 Bangbae-Ro Seocho-Gu, Seoul, Korea, 137820 South Korea
Unimo Technology Co., Ltd.
4th Floor, 162 Bangbae-Ro Seocho-Gu, Seoul, Korea, 137820 South Korea
Bluetooth Helmet Headset
ChatterBox
BiT-2
Apr. 09, 2018 to May 22, 2018
None
Normal San Market Company of the Com
AGCRT-US-BR/RF (2013-03-01)

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 15.247. The test results of this report relate only to the tested sample identified in this report.

Tested By	Henry Zhan	
© Alestation of Global Comm	Henry Zhang(Zhang Zhuorui)	May 22, 2018
Reviewed By	and change	S Manufacture Company
	Cool Cheng(Cheng Mengguo)	May 24, 2018
Approved By	Forversto ce	CO Mediano
	Forrest Lei(Lei Yonggang) Authorized Officer	May 24, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "Bluetooth Helmet Headset" designed as a "Communication Device". It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

2.402 GHz to 2.480GHz
8.70dBm(Max)
V4.1
GFSK, π /4-DQPSK, 8DPSK for BR/EDR
79
BT2_V6
ChatterBox BiT-2 V55
PCB Antenna
OdBi OdBi
DC 3.7V by Battery
INPUT:100-240V 50/60Hz 0.2A OUTPUT: 5V 1A

2. The EUT didn't support BLE.

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
CC TO	0	2402MHz	
	型1 重型	2403MHz	
THE THE STREET	(a) All Andrew (b) All Andrews (c) Andrews	-C ***	
St. Committee C. St. Manual Committee C. St. Manual Committee C. C. St. Manual C. C. St. Manual Committee C. C. St. Manual C. C. St. Manual Committee C. C. St. Manual Committee C. C. St. Manual Committee C. C. St. Manual C. C. St. Manual Committee C. C. St. Manual C. C. Manual C. C. St. Manual C. C. Man	38	2440 MHz	
2402~2480MHz	39	2441 MHz	
	40	2442 MHz	
O F Holobal Complement O Marie	Vogaga, & William Co.		
S Towns CO	77	2479 MHz	
	78	2480 MHz	

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronization with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits),4LSB's(4bits)(Input 1) and the 27MSB's of the clock(Input 2) are used. With this input values different mathematical procedures(permutations, additions, XOR-operations) are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.

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2.6. TEST METHOD

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

2.7. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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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

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4. DESCRIPTION OF TEST MODES

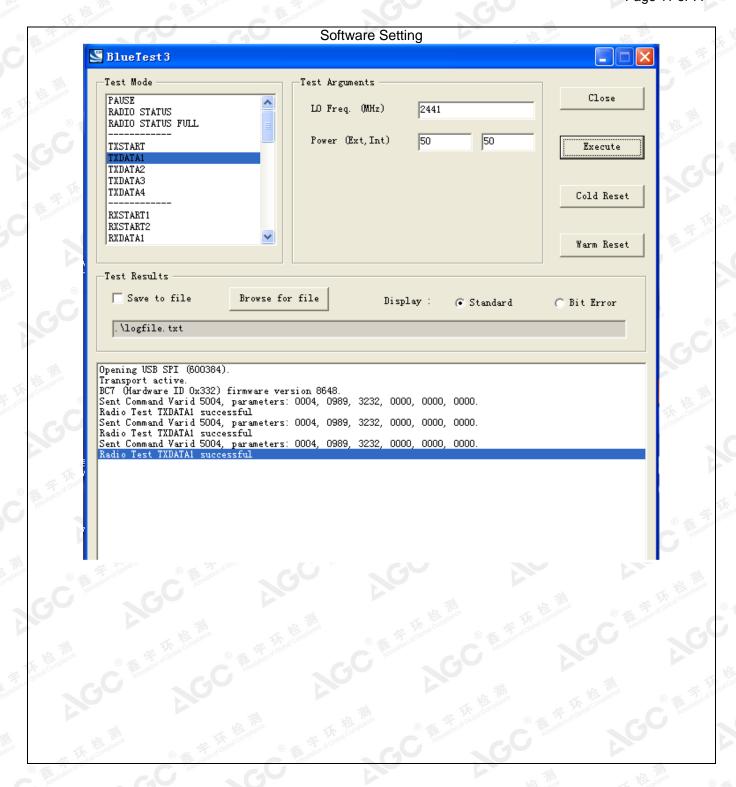
NO.	TEST MODE DESCRIPTION
Emiles 1 Emiles	Low channel GFSK
© 4 2	Middle channel GFSK
3	High channel GFSK
4	Low channel π /4-DQPSK
5 Final Colonia	Middle channel π /4-DQPSK
6	High channel π /4-DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
2G 9 2G	High channel 8DPSK
10	BT Link with charging
11 1	BT Link

Note:

- 1. 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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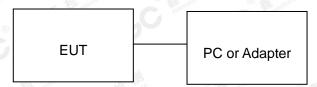


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5. SYSTEM TEST CONFIGURATION

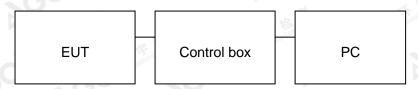
5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Note: Owing to the EUT has own battery, testing may be performed while PC or adapter removed.

Configure 2: (Control continuous TX)



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Equipment Mfr/Brand Model/Typ		pe No. Remark	
1	Bluetooth Helmet Headset	ChatterBox	BiT-2	EUT TO	
2	Battery	CEL	602240	Accessory	
3	PC A BOOM	APPLE	A1465	A.E	
4	Control box	CSR	USB_SPI_TOOLS	A.E	
5	Adapter	SOY	SOY-0500100US	Accessory	
6	MIC	ChatterBox	N/A	Accessory	
70	Speaker	ChatterBox	N/A	Accessory	
8	USB Cable	N/A	1.2m unshielded	Accessory	
9	USB Cable	N/A	1m unshielded	A.E	
10	Temporary Antenna Connector	T10	N/A	A.E	

Note: The temporary antenna connector is a RF SMA connector with fifty ohm resistor, which is welded to the PCB board or module.

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5.3. SUMMARY OF TEST RESULTS

		2 100		
FCC RULES	DESCRIPTION OF TEST	RESULT		
§15.247 b(1)	Peak Output Power	Compliant		
§15.247 a(1)	20 dB Bandwidth	Compliant		
§15.247 d	Conducted Spurious Emission	Compliant		
§15.247 d §15.209	Radiated Emission	Compliant		
§15.247 d	Band Edges	Compliant		
§15.247 a(1)(iii)	Number of hopping frequency	Compliant		
§15.247 a(1)(iii)	Time of Occupancy	Compliant		
§15.247 a(1)	Frequency Separation	Compliant		
§15.207	Line conduction Emission	Compliant		

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6. TEST FACILITY

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 EQUIPMENT LIST

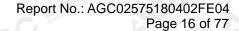
TEST EQUIPMENT OF CONDUCTED EMISSION TEST

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	-10	Mar. 01, 2018	Feb. 28, 2019
Radiation Cable 1	MXT	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	MXT	RS1	R006	June 6, 2017	June 5, 2018

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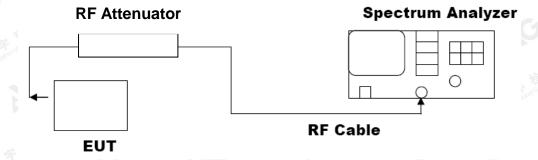
8. PEAK OUTPUT POWER

8.1. MEASUREMENT PROCEDURE

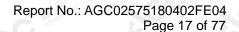
For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the top, middle and the bottom operation frequency individually.
- 3. RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW.
- 4. Record the maximum power from the Spectrum Analyzer.
- 5. The maximum peak power shall be less 21dBm.

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



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8.3. LIMITS AND MEASUREMENT RESULT

		R MEASUREMENT RESULT MOUDULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	7.17	21	Pass
2.441	8.70	21 Mariana de Company	Pass
2.480	8.04	21	Pass

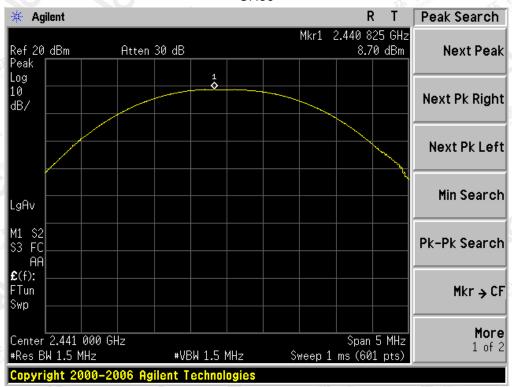
CH₀



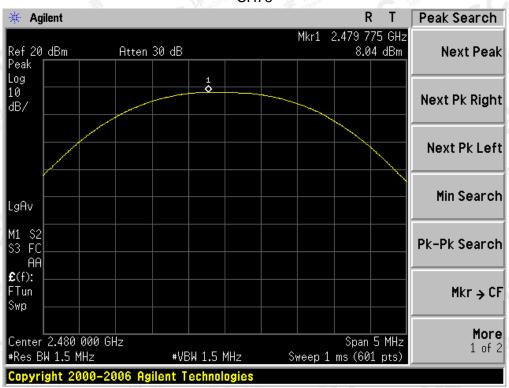
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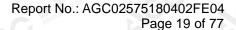
CH39



CH78



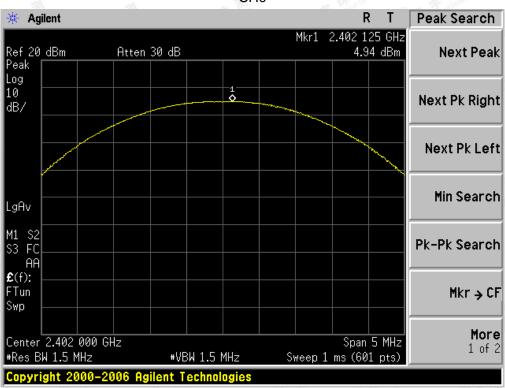
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		R MEASUREMENT RESULT	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.94	21	Pass
2.441	6.74	21 @	Pass
2.480	6.05	21	Pass

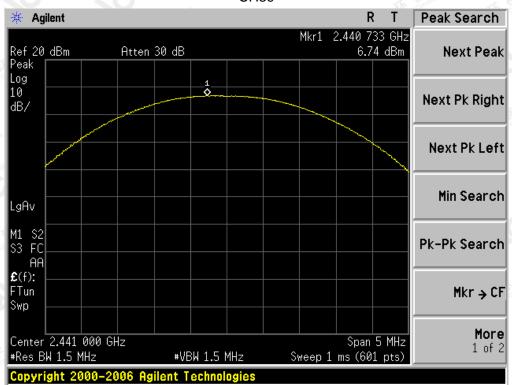
CH₀



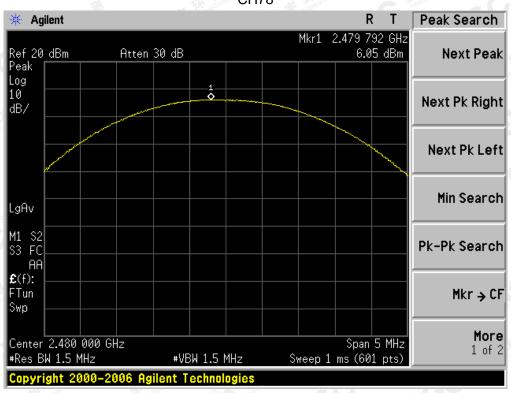
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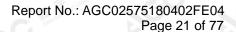
CH39



CH78



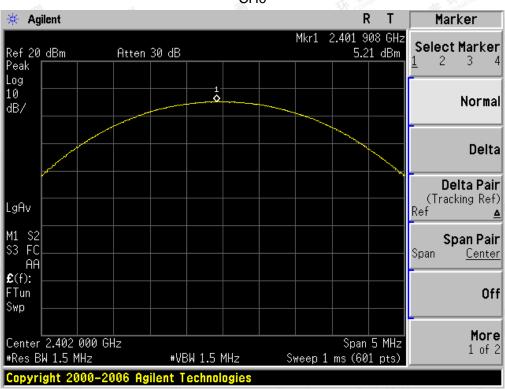
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		PEAK OUTPUT POWER I	MEASUREMENT RESULT	
		FOR 8-DPSK	MODULATION	
	Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
CO	2.402	5.21	21	Pass
	2.441	7.11	21	Pass
二年 3	2.480	6.30	21	Pass

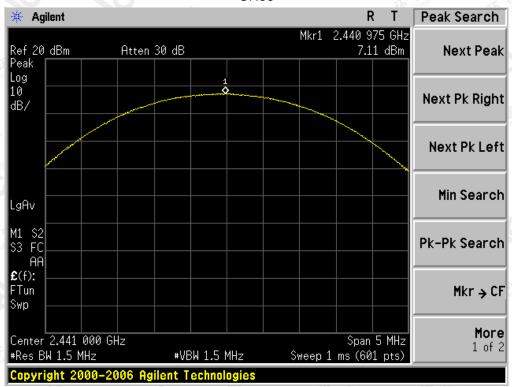
CH₀



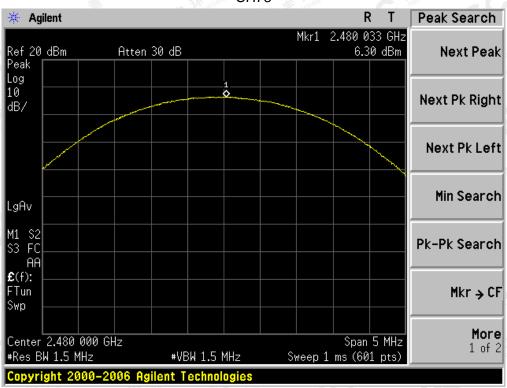
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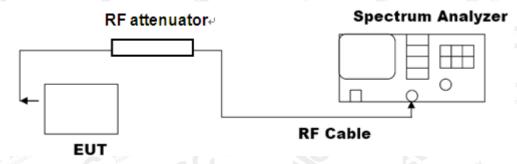
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9. BANDWIDTH

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 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW \geq 1% of the 20 dB bandwidth, VBW \geq 3RBW; Sweep = auto; Detector function = peak
- 4. Set SPA Trace 1 Max hold, then View.

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



Note: The EUT has been used temporary antenna connector for testing.

9.3. LIMITS AND MEASUREMENT RESULTS

	BLUETOOTH	1MBPS LIMITS AN	ID MEASUREMENT	RESULT
Measurement Result				
Applicable Limits	e Limits Test Data (MHz)		Danult	
		99%OBW (MHz)	-20dB BW(MHz)	Result
@ F of Global Complete	Low Channel	0.930	1.083	PASS
N/A	Middle Channel	0.926	1.091	PASS
	High Channel	0.931	1.081	PASS

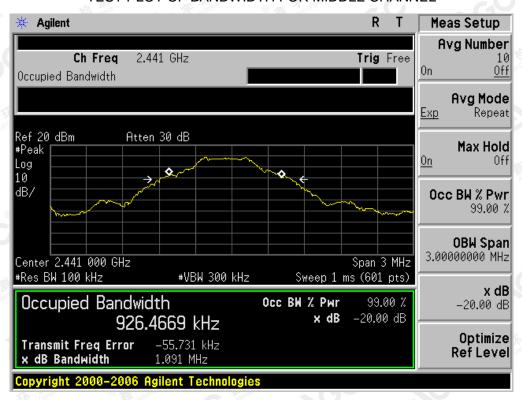
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



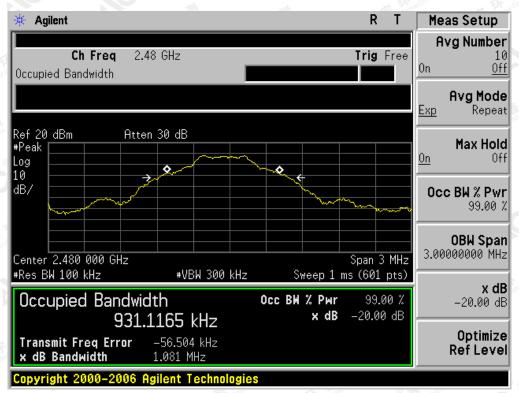
TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

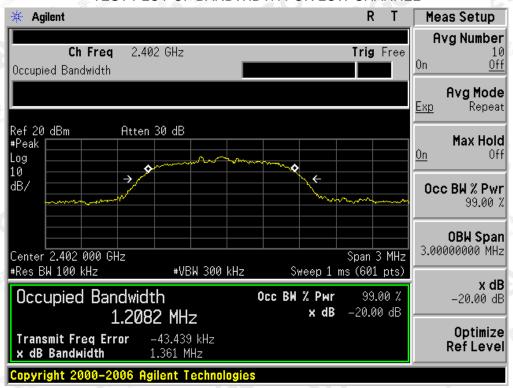


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	BLUETOOTH 2	MBPS LIMITS AN	D MEASUREMENT RES	ULT
Measurement Result				
Applicable Limits		Test Data (MHz)		Dooult
		99%OBW (MHz)	-20dB BW(MHz)	Result
The fill the state of the state	Low Channel	1.208	1.361	PASS
N/A	Middle Channel	1.203	1.364	PASS
CC "	High Channel	1.208	1.366	PASS

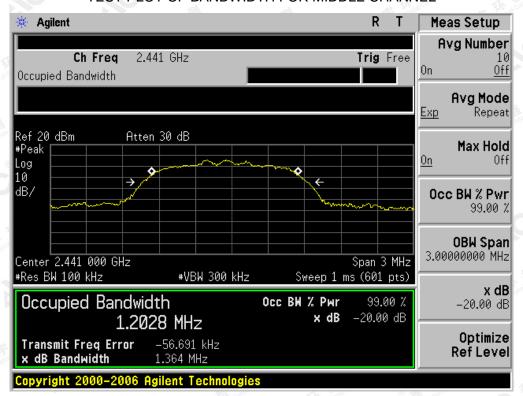
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



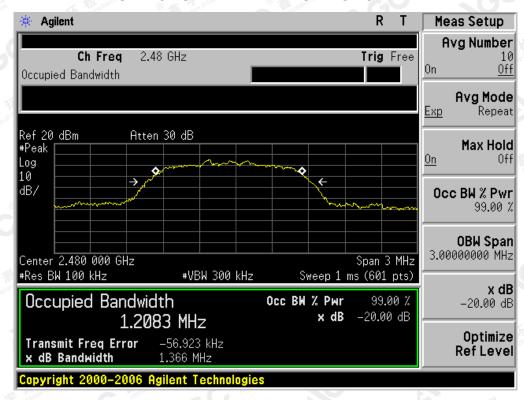
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

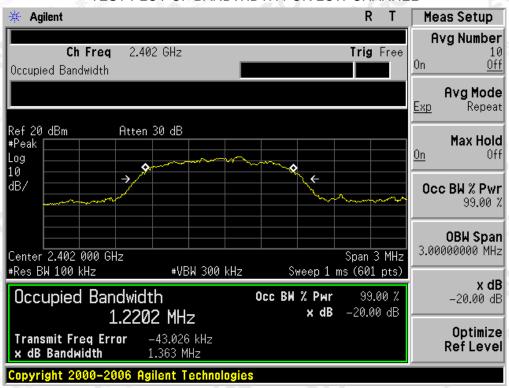


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	BLUETOOTH :	3MBPS LIMITS AN	D MEASUREMENT RI	ESULT
Measurement Result				
Applicable Limits	nits Test Data (MHz)		Decult	
		99%OBW (MHz)	-20dB BW(MHz)	Result
大 ^按 · · · · · · · · · · · · · · · · · · ·	Low Channel	1.220	1.363	PASS
N/A	Middle Channel	1.220	1.370	PASS
AGC *	High Channel	1.217	1.362	PASS

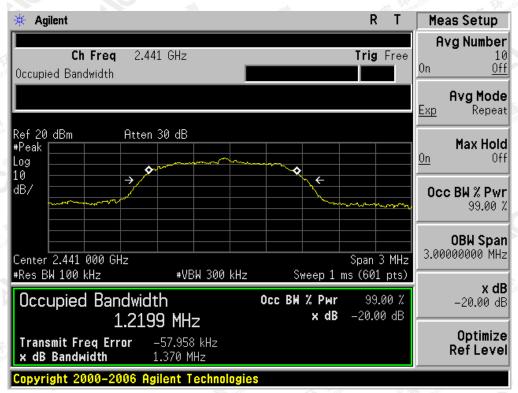
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



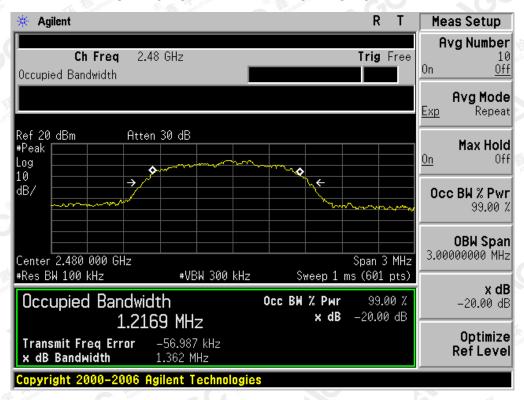
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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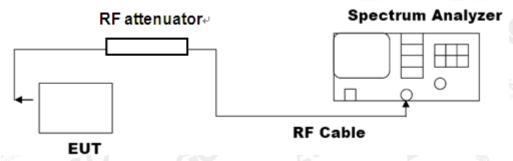
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10. CONDUCTED SPURIOUS EMISSION

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.
- Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions
 from the lowest frequency generated in the EUT up through the 10th harmonic.
 - RBW = 100 kHz; VBW = 300kHz; Sweep = auto; Detector function = peak.
- 4. Set SPA Trace 1 Max hold, then View.

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



10.3. LIMITS AND MEASUREMENT RESULT

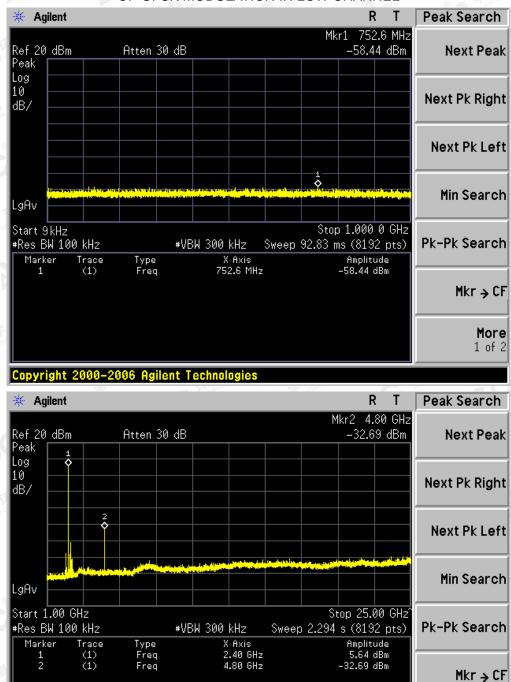
LIMITS AND MEASUREMENT RESULT				
Angliaghla Limita	Measurement Res	ult		
Applicable Limits	Test Data	Result		
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS		
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. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a))	At least -20dBc than the limit Specified on the TOP Channel	PASS		

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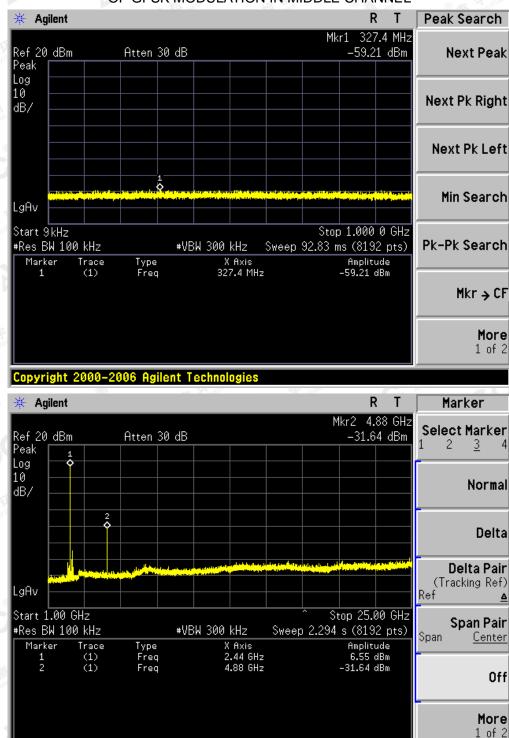
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL



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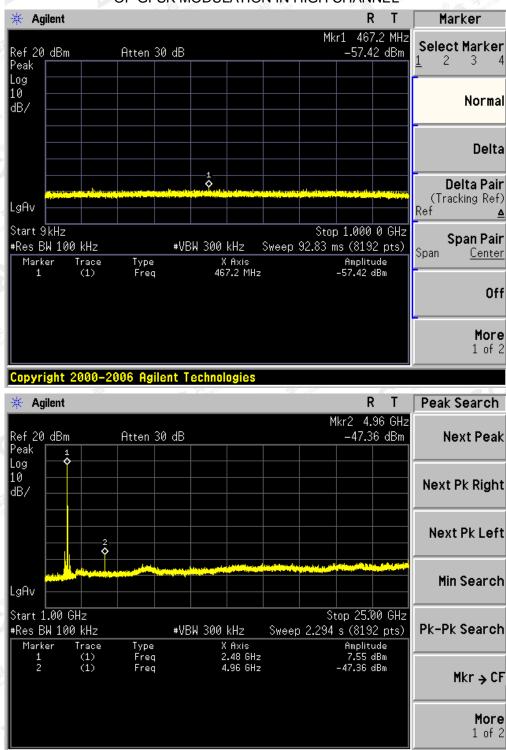
TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL



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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL



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11. RADIATED EMISSION

11.1. TEST LIMIT

Frequency	Distance	Field Strengths Limit		
(MHz)	Meters	μ V/m	dB(μV)/m	
0.009 ~ 0.490	300	2400/F(kHz)	Mills Francisco Company	
0.490 ~ 1.705	30	24000/F(kHz)	-G	
1.705 ~ 30	30	30		
30 ~ 88	3	100	40.0	
88 ~ 216	3	150	43.5	
216 ~ 960	T Balance 3 Th British	200	46.0	
960 ~ 1000	3 Manufacture Color	500	54.0	
Above 1000	3	Other:74.0 dB(µV)/m (Peak)	54.0 dB(µV)/m (Average	

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.

11.2. 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.
- 5. 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	
Clopal Count	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP	
CC Arrest	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP	
	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP	
Start ~Stop Frequency		1GHz~26.5GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average	

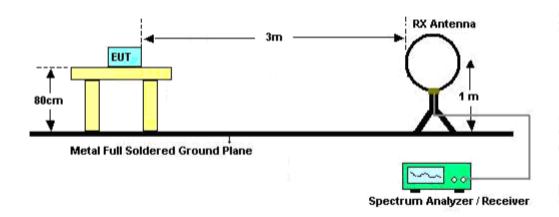
Receiver Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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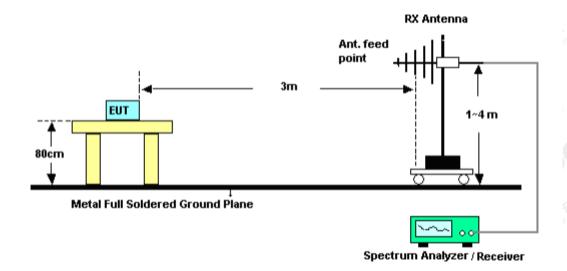


11.3. TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz



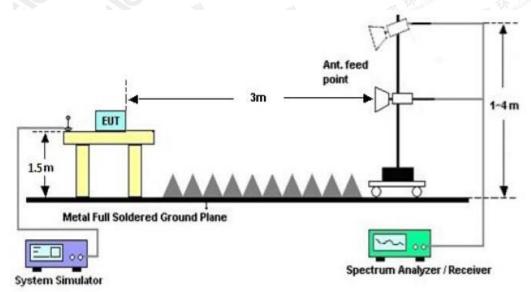
RADIATED EMISSION TEST SETUP 30MHz-1000MHz



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.4. TEST RESULT

(Worst Modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

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

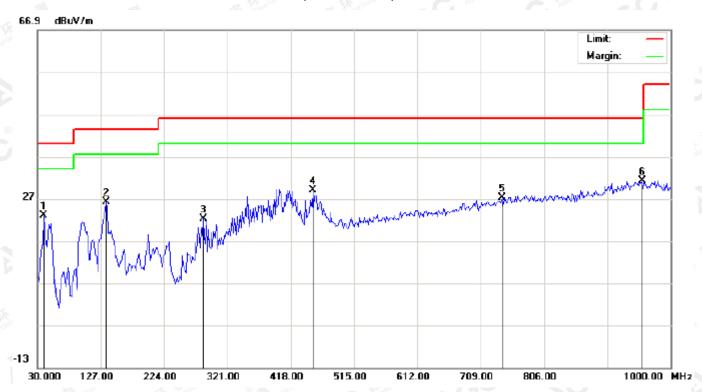
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RADIATED EMISSION BELOW 1GHz

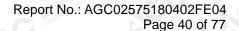
RADIATED EMISSION TEST- (30MHz-1GHz)-LOW CHANNEL-HORIZONTAL



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		39.7000	11.42	11.51	22.93	40.00	-17.07	peak			
2		135.0833	13.21	12.90	26.11	43.50	-17.39	peak			
3		283.8167	9.56	12.66	22.22	46.00	-23.78	peak			
4		451.9500	8.31	20.61	28.92	46.00	-17.08	peak			
5		741.3333	0.91	26.39	27.30	46.00	-18.70	peak			
6	*	956.3500	1.27	29.94	31.21	46.00	-14.79	peak			

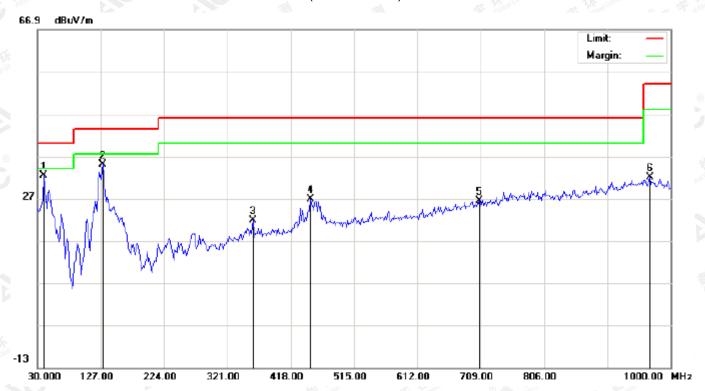
RESULT: PASS

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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	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	39.7000	23.90	8.51	32.41	40.00	-7.59	peak			
2		130.2332	23.85	11.13	34.98	43.50	-8.52	peak			
3		359.8000	3.01	18.80	21.81	46.00	-24.19	peak			
4		448.7167	6.32	20.55	26.87	46.00	-19.13	peak			
5		707.3832	1.10	25.40	26.50	46.00	-19.50	peak			
6		967.6667	2.13	29.83	31.96	54.00	-22.04	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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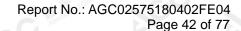
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	I	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	39.7000	10.95	11.51	22.46	40.00	-17.54	peak			
2		102.7500	10.89	9.84	20.73	43.50	-22.77	peak			
3		327.4667	6.60	17.24	23.84	46.00	-22.16	peak			
4		448.7167	6.50	20.55	27.05	46.00	-18.95	peak			
5		736.4833	1.33	26.25	27.58	46.00	-18.42	peak			
6		962.8167	2.31	29.88	32.19	54.00	-21.81	peak			

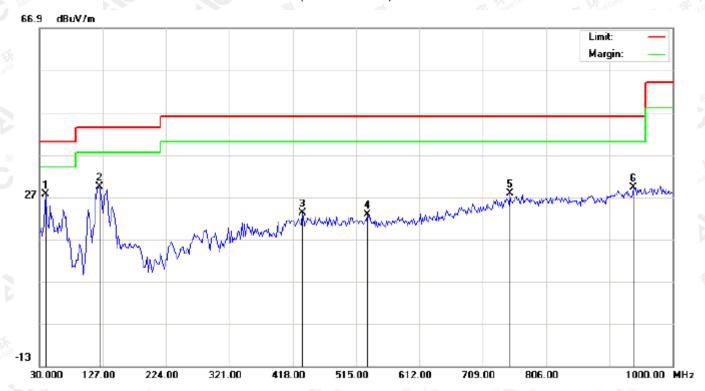
RESULT: PASS

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



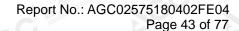
1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
Γ	1	*	39.7000	19.08	8.51	27.59	40.00	-12.41	peak			
Γ	2		122.1500	21.58	7.76	29.34	43.50	-14.16	peak			
Γ	3		432.5500	3.18	20.06	23.24	46.00	-22.76	peak			
Γ	4		532.7833	0.79	22.02	22.81	46.00	-23.19	peak			
Γ	5		751.0333	1.22	26.64	27.86	46.00	-18.14	peak			
	6		940.1833	-0.46	29.73	29.27	46.00	-16.73	peak			

RESULT: PASS

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

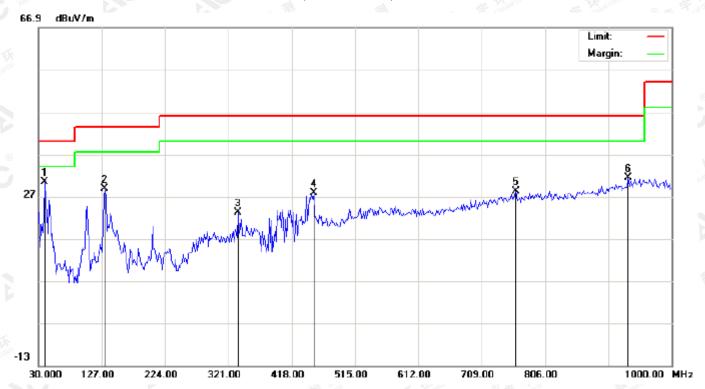
2. The "Factor" value can be calculated automatically by software of measurement system.

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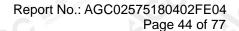
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL



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	*	39.7000	18.81	11.51	30.32	40.00	-9.68	peak			
2		131.8500	17.45	11.39	28.84	43.50	-14.66	peak			
3		335.5500	5.43	17.78	23.21	46.00	-22.79	peak			
4		451.9500	7.12	20.61	27.73	46.00	-18.27	peak			
5		760.7333	1.50	26.78	28.28	46.00	-17.72	peak			
6		933.7167	1.88	29.55	31.43	46.00	-14.57	peak			

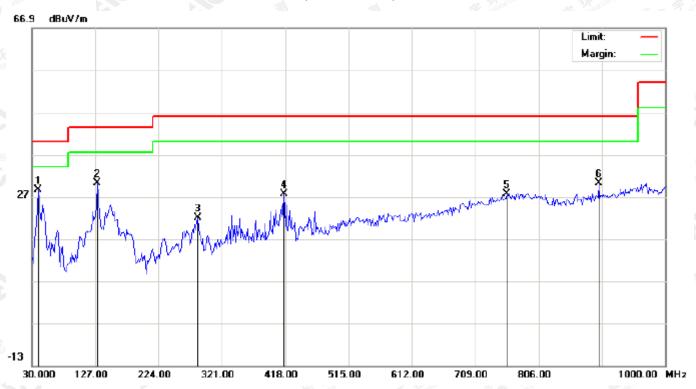
RESULT: PASS

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



No.	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	*	39.7000	20.10	8.51	28.61	40.00	-11.39	peak			
2		130.2332	19.07	11.13	30.20	43.50	-13.30	peak			
3		283.8167	6.99	14.92	21.91	46.00	-24.09	peak			
4		416.3833	8.04	19.57	27.61	46.00	-18.39	peak			
5		757.5000	0.95	26.73	27.68	46.00	-18.32	peak			
6		898.1500	1.68	28.56	30.24	46.00	-15.76	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.

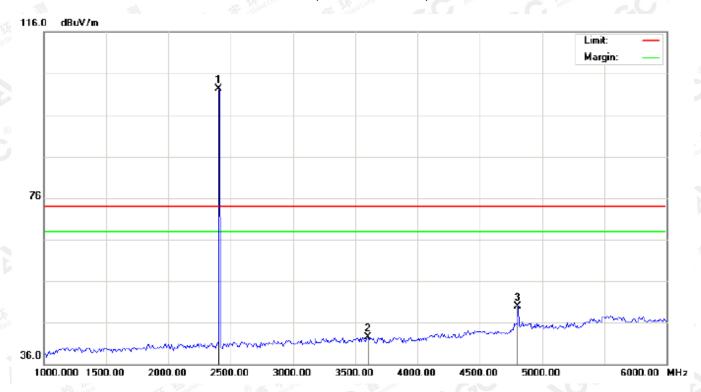
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RADIATED EMISSION ABOVE 1GHz

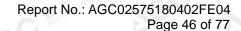
RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-LOW CHANNEL-HORIZONTAL



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	*	2402.000	91.99	10.32	102.31	74.00	28.31	peak			
2		3600.000	29.70	12.73	42.43	74.00	-31.57	peak			
3		4804.000	42.21	7.69	49.90	74.00	-24.10	peak			

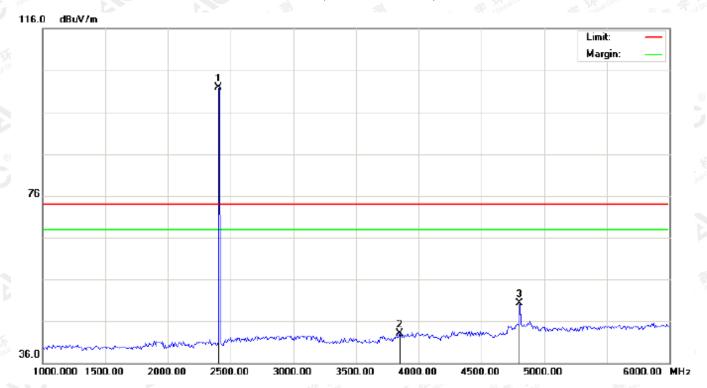
RESULT: PASS

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RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-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	91.58	10.32	101.90	74.00	27.90	peak			
2		3850.000	28.89	14.27	43.16	74.00	-30.84	peak			
3		4804.000	42.55	7.69	50.24	74.00	-23.76	peak			

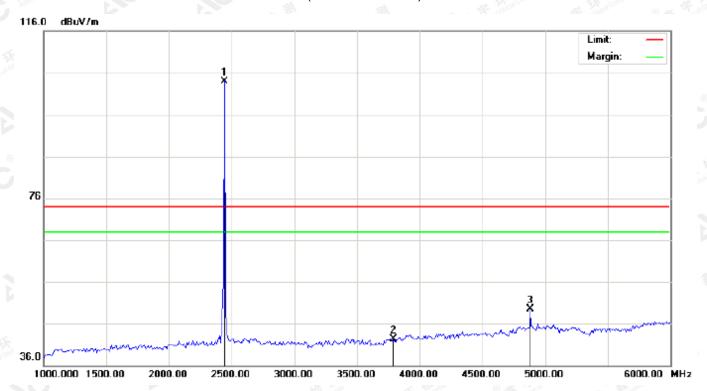
RESULT: PASS

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RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-MIDDLE CHANNEL-HORIZONTAL



N	lo.	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	*	2441.000	93.47	10.36	103.83	74.00	29.83	peak			
	2		3791.667	28.36	13.91	42.27	74.00	-31.73	peak			
	3		4882.000	41.66	7.89	49.55	74.00	-24.45	peak			

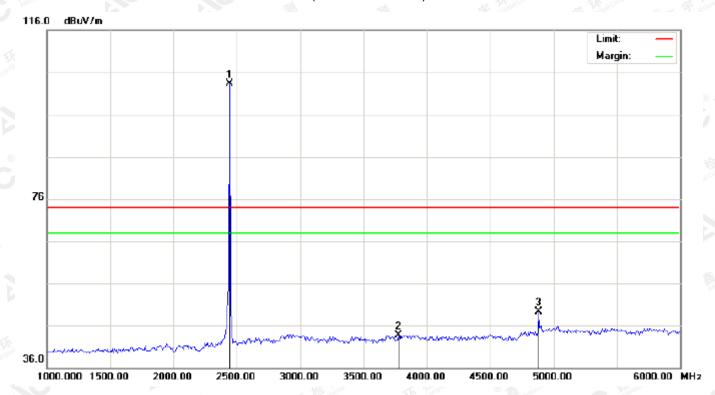
RESULT: PASS

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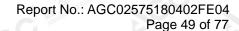
RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics) - MIDDLE CHANNEL -VERTICAL



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	*	2441.000	93.00	10.36	103.36	74.00	29.36	peak			
2		3775.000	29.95	13.80	43.75	74.00	-30.25	peak			
3		4882.000	41.39	7.89	49.28	74.00	-24.72	peak			

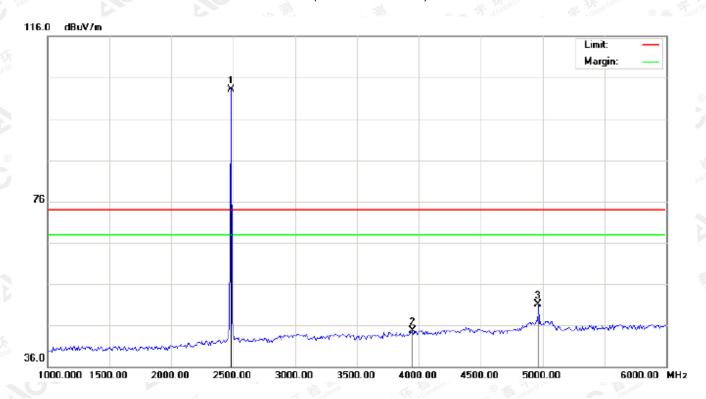
RESULT: PASS

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RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-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	92.78	10.41	103.19	74.00	29.19	peak			
2		3950.000	29.75	14.88	44.63	74.00	-29.37	peak			
3		4960.000	43.10	8.09	51.19	74.00	-22.81	peak			

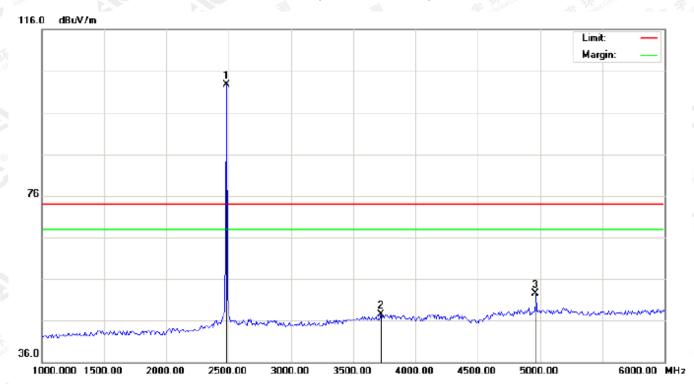
RESULT: PASS

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RADIATED EMISSION ABOVE 1GHz (1-10th Harmonics)-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	92.34	10.41	102.75	74.00	28.75	peak			
2		3725.000	33.92	13.50	47.42	74.00	-26.58	peak			
3		4960.000	44.41	8.09	52.50	74.00	-21.50	peak			

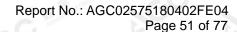
RESULT: PASS

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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12. BAND EDGE EMISSION

12.1. MEASUREMENT PROCEDURE

- 1. Set the EUT Work on the top, the bottom operation frequency individually.
- 2. Set SPA Start or Stop Frequency=Operation Frequency,

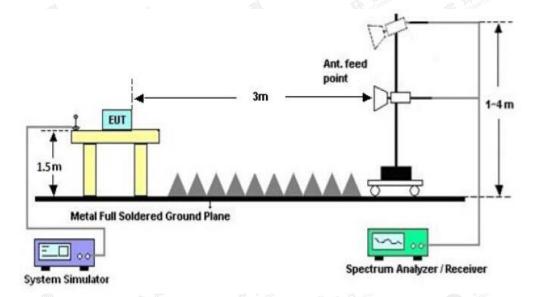
For unrestricted band: RBW=100kHz, VBW=300kHz

For restricted band: RBW=1MHz, VBW=3*RBW

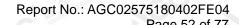
Center frequency = Operation frequency

3. The band edges was measured and recorded.

12.2. TEST SET-UP



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12.3. TEST RESULT

(Worst Modulation: GFSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Horizontal



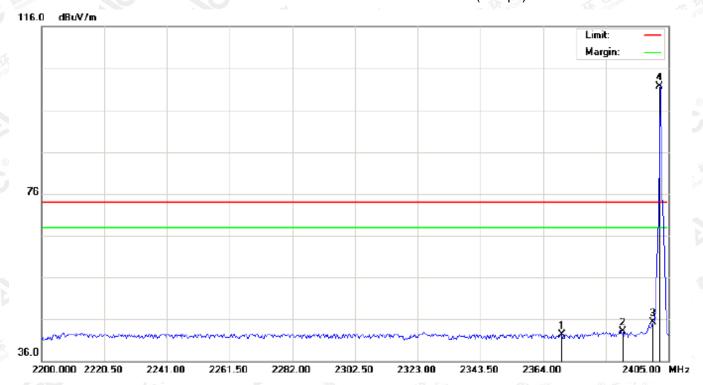
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2369.466	32.19	10.29	42.48	74.00	-31.52	peak			
2		2390.000	32.00	10.31	42.31	74.00	-31.69	peak			
3		2400.000	35.97	10.32	46.29	74.00	-27.71	peak			
4	*	2402.000	91.89	10.32	102.21	74.00	28.21	peak			

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL (1Mbps)-Vertical



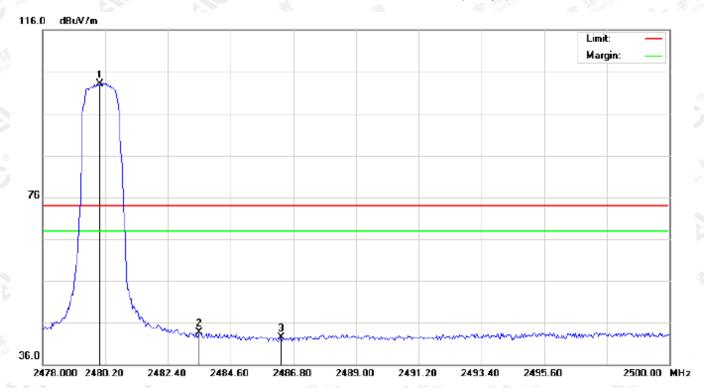
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		2370.150	32.00	10.29	42.29	74.00	-31.71	peak			
2		2390.000	32.71	10.31	43.02	74.00	-30.98	peak			
3		2400.000	35.06	10.32	45.38	74.00	-28.62	peak			
4	*	2402.000	91.47	10.32	101.79	74.00	27.79	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Horizontal



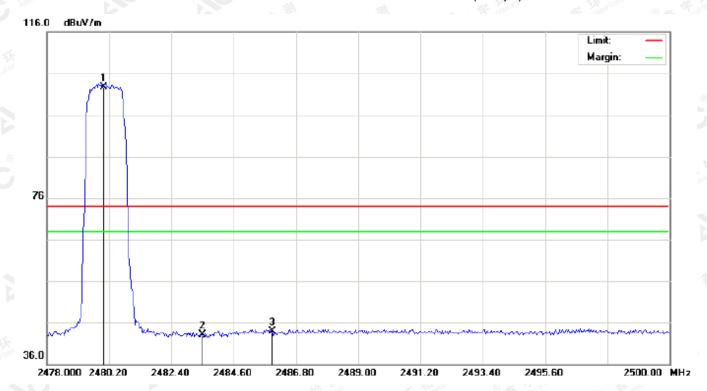
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB	1	cm	degree	
1	*	2480.000	92.65	10.41	103.06	74.00	29.06	peak			
2		2483.500	33.19	10.41	43.60	74.00	-30.40	peak			
3		2486.360	32.11	10.41	42.52	74.00	-31.48	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (1Mbps)-Vertical



No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu\//m	dBu∀/m	dB	1	cm	degree	
1	*	2480.000	92.23	10.41	102.64	74.00	28.64	peak			
2		2483.500	32.76	10.41	43.17	74.00	-30.83	peak			
3		2485.957	33.48	10.41	43.89	74.00	-30.11	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.
- 3. Hopping off and Hopping on have been tested and only worst case recorded

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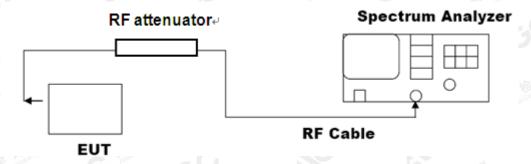
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13. NUMBER OF HOPPING FREQUENCY

13.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=3RBW.

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



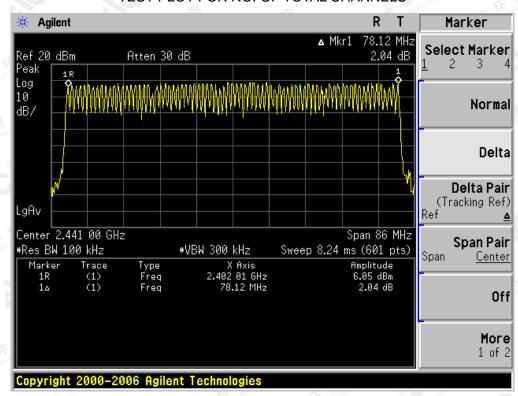
13.3. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
HOPPING CHANNEL	>=15	79	PASS

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TEST PLOT FOR NO. OF TOTAL CHANNELS



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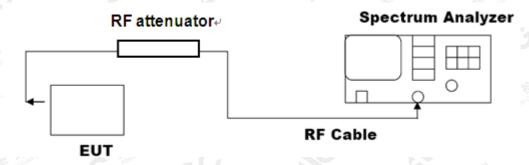
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14. TIME OF OCCUPANCY (DWELL TIME)

14.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



14.3. LIMITS AND MEASUREMENT RESULT

The Worst Case (3Mbps)

Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.898	31.6	309.12	400
Middle	2.898	31.6	309.12	400
High	2.898	31.6	309.12	400

Low Channel Time

2.898*(1600/6)/79*31.6=309.12ms

Middle Channel Time

2.898*(1600/6)/79*31.6=309.12ms

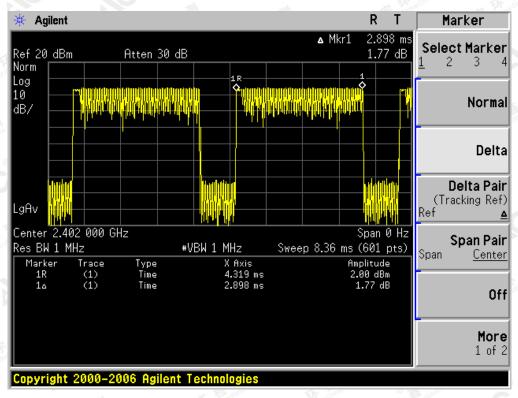
High Channel Time

2.898*(1600/6)/79*31.6=309.12ms

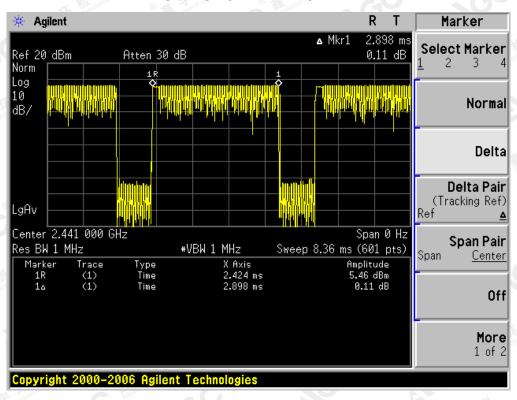
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TEST PLOT OF LOW CHANNEL



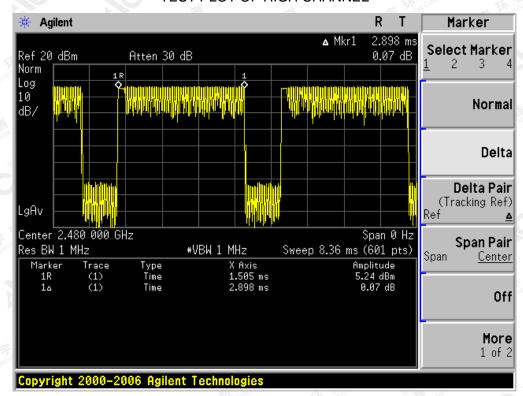
TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH CHANNEL



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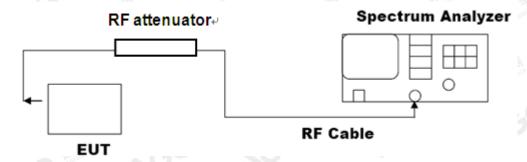
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15. FREQUENCY SEPARATION

15.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- 3. Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

15.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



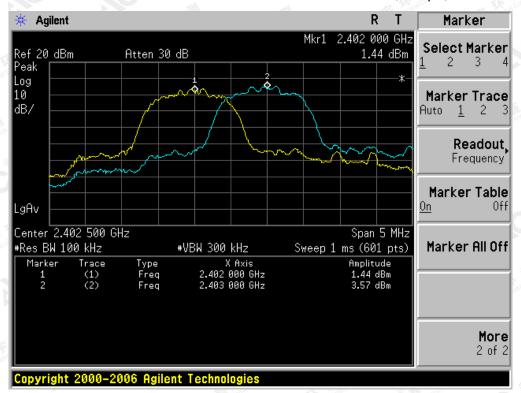
15.3. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT	
	KHz	KHz		
CH00-CH01	1000	>=25 KHz or 2/3 20 dB BW	Pass	

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TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)



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16. LINE CONDUCTED EMISSION TEST

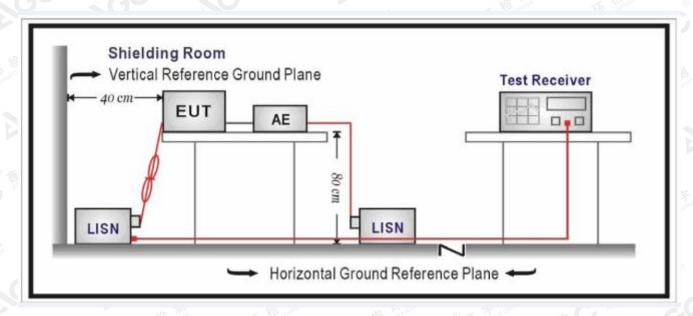
16.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF	Line Voltage
Frequency	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	8 gg 200 0 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

16.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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16.3. 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 DC charging voltage by adapter 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.

16.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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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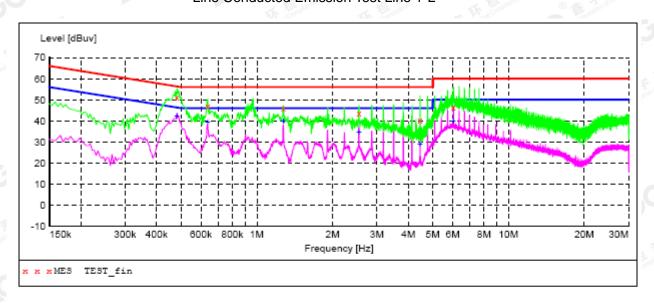


16.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter (worst case)

FOR BR/EDR

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "TEST fin"

2018/4/9 Freque		Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.482	000	51.40	11.4	56	4.9	QP	L1	FLO
0.638	000	46.90	11.4	56	9.1	QP	L1	FLO
1.274	000	46.10	11.3	56	9.9	QP	L1	FLO
2.546	000	43.50	11.3	56	12.5	QP	L1	FLO
4.454	000	40.40	11.4	56	15.6	QP	L1	FLO
6.038	000	46.70	11.3	60	13.3	QP	L1	FLO

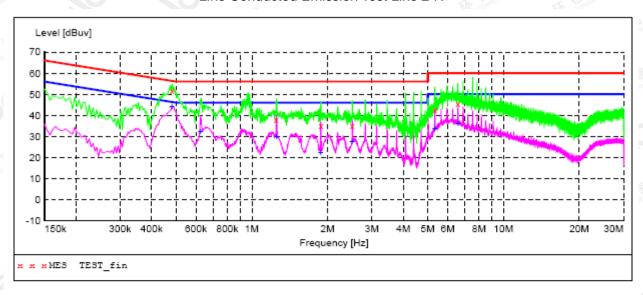
MEASUREMENT RESULT: "TEST fin2"

2018/4/9 15:06 Frequency MHz		Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.482000	42.40	11.4	46	3.9	AV	L1	FLO
0.638000	39.20	11.4	46	6.8	AV	L1	FLO
1.274000	39.60	11.3	46	6.4	AV	L1	FLO
2.546000	34.70	11.3	46	11.3	AV	L1	FLO
4.450000	28.70	11.4	46	17.3	AV	L1	FLO
6.042000	39.70	11.3	50	10.3	AV	L1	FLO

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Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "TEST fin"

2018/4/9 1 Frequenc MH	y Level	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.48200	0 51.50	11.4	56	4.8	QP	N	FLO
1.25000	0 37.90	11.3	56	18.1	QP	N	FLO
1.88200	0 34.90	11.3	56	21.1	QP	N	FLO
2.50600	0 35.00	11.3	56	21.0	QP	N	FLO
5.33800	0 42.90	11.4	60	17.1	QP	N	FLO
6.59000	0 45.30	11.2	60	14.7	QP	N	FLO

MEASUREMENT RESULT: "TEST fin2"

2018/4/9 14:57 Frequency MHz	Level dBuv	Transd dB	Limit dBuv	Margin dB	Detector	Line	PE
0.482000	44.10	11.4	46	2.2	AV	N	FLO
0.626000	32.10	11.4	46	13.9	AV	N	FLO
1.254000	30.00	11.3	46	16.0	AV	N	FLO
1.878000	22.40	11.3	46	23.6	AV	N	FLO
2.506000	27.30	11.3	46	18.7	AV	N	FLO
5.334000	33.60	11.4	50	16.4	AV	N	FLO
6.594000	35.90	11.2	50	14.1	AV	N	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

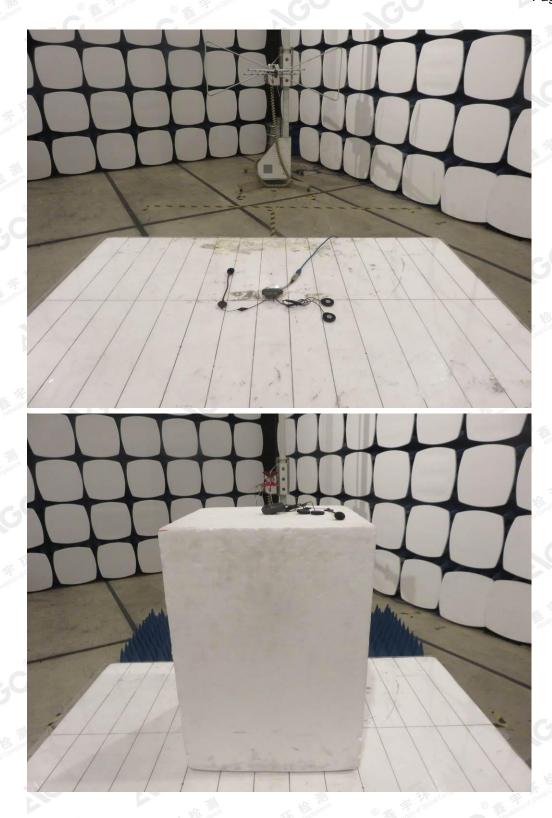


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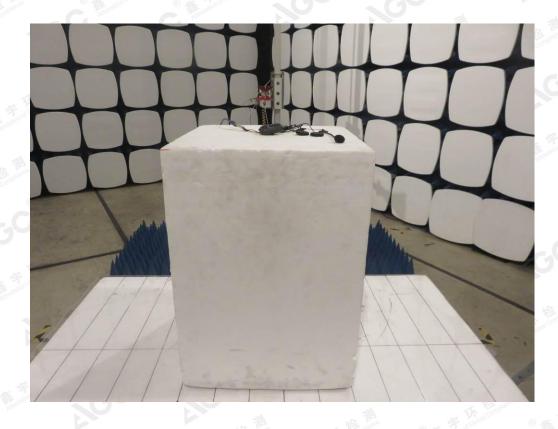




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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (Port)-1



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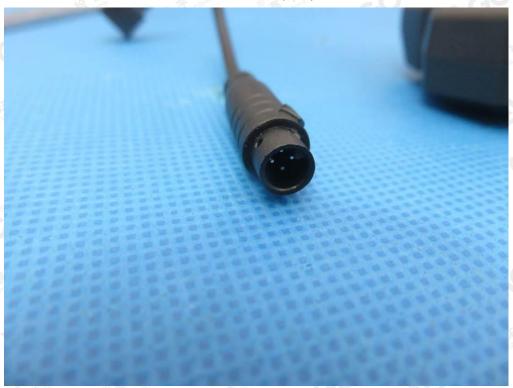
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VIEW OF EUT (Port)-2



VIEW OF EUT (Port)-3



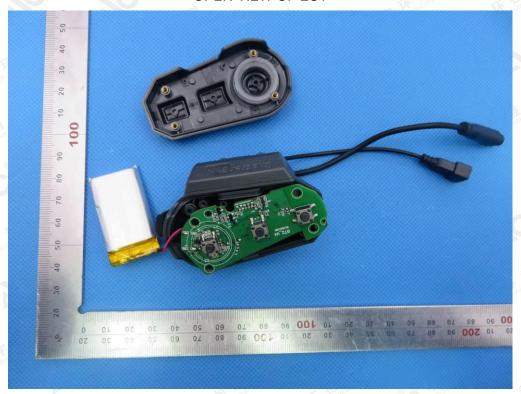
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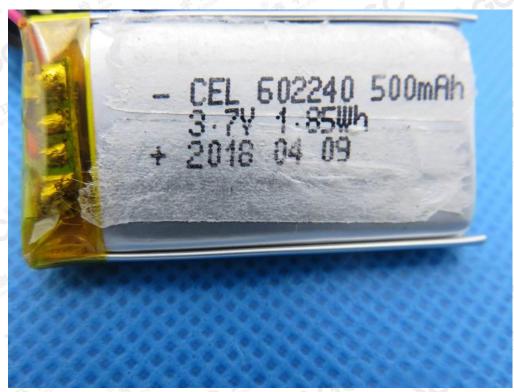
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OPEN VIEW OF EUT



VIEW OF BATTERY



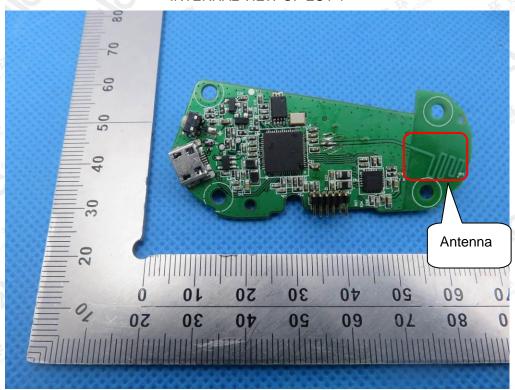
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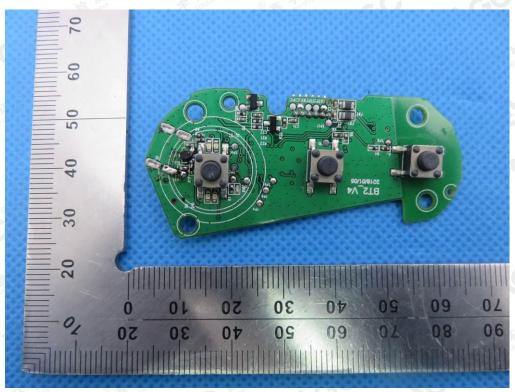
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INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER



----END OF REPORT----

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