

Page 1 of 72

FCC Test Report

Report No.: AGC01110180205FE04

FCC ID	: 2AOKB-A3261	
APPLICATION PURPOSE	: Original Equipment	
PRODUCT DESIGNATION	: Soundcore Arc	
BRAND NAME	: Anker	
MODEL NAME	: A3261	
CLIENT	: Anker Innovations Limited	
DATE OF ISSUE	: Mar. 06, 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		Mar. 06, 2018	Valid	Initial release

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Report No.: AGC01110180205FE04 Page 3 of 72

TABLE OF CONTENTS

1. VERIFICATION OF CONFORMITY	5
2. GENERAL INFORMATION	
2.1. PRODUCT DESCRIPTION	6
2.2. TABLE OF CARRIER FREQUENCYS	
2.3. RECEIVER INPUT BANDWIDTH	7
2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE	
2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR	
2.6. TEST METHOD	
2.7. EQUIPMENT MODIFICATIONS	
3. MEASUREMENT UNCERTAINTY	9
4. DESCRIPTION OF TEST MODES	
5. SYSTEM TEST CONFIGURATION	
5.1. CONFIGURATION OF EUT SYSTEM	
5.2. EQUIPMENT USED IN EUT SYSTEM	
5.3. SUMMARY OF TEST RESULTS	
6. TEST FACILITY	
7. TEST EQUIPMENT LIST	
8. PEAK OUTPUT POWER	
8.1. MEASUREMENT PROCEDURE	
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
8.3. LIMITS AND MEASUREMENT RESULT	17
9.1. MEASUREMENT PROCEDURE	
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
9.3. LIMITS AND MEASUREMENT RESULTS	23
10. CONDUCTED SPURIOUS EMISSION	
10.1. MEASUREMENT PROCEDURE	
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	
10.3. LIMITS AND MEASUREMENT RESULT	

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Report No.: AGC01110180205FE04 Page 4 of 72

11. RADIATED EMISSION	34
11.1. TEST LIMIT	
11.2. MEASUREMENT PROCEDURE	
11.3. TEST SETUP	
11.4. TEST RESULT	
12. BAND EDGE EMISSION	51
12.1. MEASUREMENT PROCEDURE	
12.2. TEST SET-UP	
12.3. TEST RESULT	
13. NUMBER OF HOPPING FREQUENCY	56
13.1. MEASUREMENT PROCEDURE	
13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
13.3. LIMITS AND MEASUREMENT RESULT	56
14. TIME OF OCCUPANCY (DWELL TIME)	58
14.1. MEASUREMENT PROCEDURE	
14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	58
14.3. LIMITS AND MEASUREMENT RESULT	
15. FREQUENCY SEPARATION	
15.1. MEASUREMENT PROCEDURE	
15.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)	
15.3. LIMITS AND MEASUREMENT RESULT	
16. LINE CONDUCTED EMISSION TEST	63
16.1. LIMITS OF LINE CONDUCTED EMISSION TEST	63
16.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST	
16.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST	
16.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST	
16.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST	
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	65
APPENDIX B: PHOTOGRAPHS OF EUT	67

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Applicant	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Manufacturer	Anker Innovations Limited
Address	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hongkong
Product Designation	Soundcore Arc
Brand Name	Anker
Test Model	A3261
Date of test	Feb. 05, 2018 to Feb. 27, 2018
Deviation	None
Condition of Test Sample	Normal to the second se
Report Template	AGCRT-US-BR/RF (2013-03-01)

1. VERIFICATION OF CONFORMITY

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

Zhang Harry

Henry Zhang(Zhang Zhuorui) Feb. 27, 2018

Reviewed By

Forvesto en

Forrest Lei(Lei Yonggang) Mar. 06, 2018

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

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

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	0.16dBm(Max)
Bluetooth Version	V4.1
Modulation	GFSK, π /4-DQPSK, 8DPSK for BR/EDR
Number of channels	79 for BR/EDR
Hardware Version	V1.0
Software Version	V1.5
Antenna Designation	Ceramic Antenna
Antenna Gain	2dBi
Power Supply	DC3.7V by Battery

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
The the particular	a Kundaning O minda	2402MHz
		2403MHz
		E A State of the s
	38	2440 MHz
2402~2480MHz	39	2441 MHz
	40	2442 MHz
		CO TO
	577 C	2479 MHz
	78	2480 MHz

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Report No.: AGC01110180205FE04 Page 7 of 72

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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Report No.: AGC01110180205FE04 Page 8 of 72

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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Report No.: AGC01110180205FE04 Page 9 of 72

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, $Uc = \pm 3.9 dB$
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

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4. DESCRIPTION OF TEST MODES

105		
	NO.	TEST MODE DESCRIPTION
Hanna and	1	Low channel GFSK
o ^{00al}	2	Middle channel GFSK
GG	3	High channel GFSK
	4	Low channel π /4-DQPSK
Find Globa	5	Middle channel π /4-DQPSK
Alles	6	High channel π /4-DQPSK
	7	Low channel 8DPSK
® k	8	Middle channel 8DPSK
C.C	9	High channel 8DPSK
	10	BT Link
Noto:		

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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Report No.: AGC01110180205FE04 Page 11 of 72

		Software Set	ting		
S BlueTest 3					
-Test Mode					
PAUSE	<u>^</u>	LO Freq. (MHz)	2441	Close	
RADIO STATUS RADIO STATUS FULL	=	Lo rreq. (mir)	12111		
TXSTART		Power (Ext, Int)	50 50	Execute	
TXDATA1 TXDATA2 TXDATA3					
TXDATA4				Cold Rese	et
RXSTART1 RXSTART2					
RXDATA1	~			Warm Rese	et 6
Test Results		en			
📃 Save to file	Browse for	tile Die	-		
		DIS	play : 💽 Standard	🔿 Bit Error	3.Cooba
. \logfile. txt		DIS	play : 🕡 Standard	C Bit Error	of Globa
. \logfile. txt		DIS	play : 🕟 Standard	C Bit Error	I set coope
Opening USB SPI (6003		D13	play : (@ Standard	C Bit Error	
Opening USB SPI (6003 Transport active. BC7 (Hardware ID 0x33	32) firmware vers	sion 8648.		C Bit Error	
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sp	32) firmware ver: 304, parameters: 1ccessful	sion 8648. 0004, 0989, 3232, 00	00, 0000, 0000.	C Bit Error	
Opening USB SPI (6003 Transport active. BCT (Hardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sp Sent Command Varid 50	32) firmware vers 104, parameters: 1ccessful 104, parameters:	sion 8648. 0004, 0989, 3232, 00	00, 0000, 0000.	C Bit Error	
Opening USB SPI (6003 Transport active. BC7 (Hardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 so Sent Command Varid 50 Radio Test TXDATA1 so Sent Command Varid 50	02) firmware vers 104, parameters: 1ccessful 104, parameters: 1ccessful 104, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000.	C Bit Error	
Opening USB SPI (6003 Transport active. BC7 (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sp Sent Command Varid 50 Radio Test TXDATA1 sp	02) firmware vers 104, parameters: 1ccessful 104, parameters: 1ccessful 104, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000.	C Bit Error	
Opening USB SPI (6003 Transport active. BC7 (Hardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 so Sent Command Varid 50 Radio Test TXDATA1 so Sent Command Varid 50	02) firmware vers 104, parameters: 1ccessful 104, parameters: 1ccessful 104, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000.	C Bit Error	
Opening USB SPI (6003 Transport active. BC7 (Hardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 so Sent Command Varid 50 Radio Test TXDATA1 so Sent Command Varid 50	02) firmware vers 104, parameters: 1ccessful 104, parameters: 1ccessful 104, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000.	C Bit Error	
Opening USB SPI (6003 Transport active. BC7 (Hardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 st Sent Command Varid 50 Radio Test TXDATA1 st Sent Command Varid 50 Radio Test TXDATA1 st	02) firmware vers 104, parameters: 1ccessful 104, parameters: 1ccessful 104, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		
Opening USB SPI (6003 Transport active. BCT (Mardware ID 0x33 Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr Sent Command Varid 50 Radio Test TXDATA1 sr	32) firmware vers 1004, parameters: 1004, parameters: 1004, parameters: 1004, parameters: 1006, parameters:	sion 8648. 0004, 0989, 3232, 00 0004, 0989, 3232, 00 0004, 0989, 3232, 00	00, 0000, 0000. 00, 0000, 0000. 00, 0000, 0000.		

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Report No.: AGC01110180205FE04 Page 12 of 72

5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT

Configure 2: (Control continuous TX)

			1		
EUT	-	Control box	(Con	PC	hobs
	14				

5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
Con 1 ance	Soundcore Arc	Anker	A3261	EUT
2	Battery	VDL	361122	Accessory
3	PC	APPLE	A1465	A.E
4	Control box	CSR	USB_SPI_TOOLS	A.E
5	Temporary Antenna	T10	N/A	A.E
6	USB Cable	N/A	0.6m Unshielded	A.E

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5.3. SUMMARY OF TEST RESULTS

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	N/A

Note: N/A means it's not applicable to this item.

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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 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	ance - C the for	Mar. 01, 2016	Feb. 28, 2018

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Report No.: AGC01110180205FE04 Page 16 of 72

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 \ge 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)

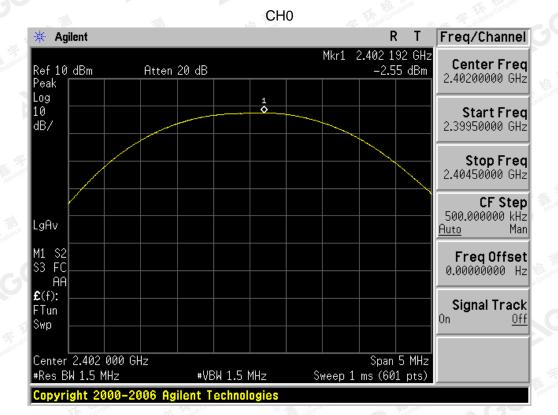
RF Attenuator Spectrum Analyzer

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8.3. LIMITS AND MEASUREMENT RESULT

		R MEASUREMENT RESULT	
Frequency (GHz)	Peak Power (dBm)	MOUDULATION Applicable Limits (dBm)	Pass or Fail
2.402	-2.55	21	Pass
2.441	0.16	21	Pass
2.480	-1.42	21	Pass

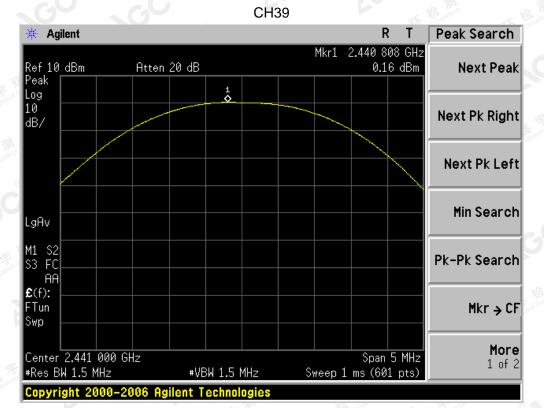


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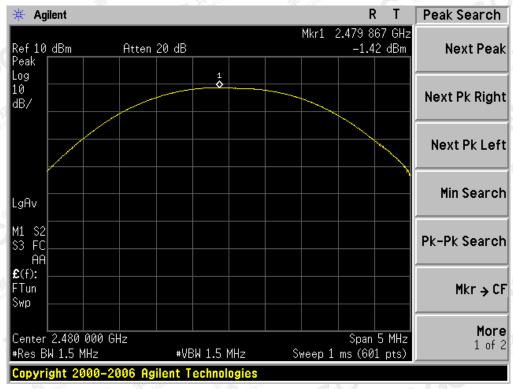




Report No.: AGC01110180205FE04 Page 18 of 72



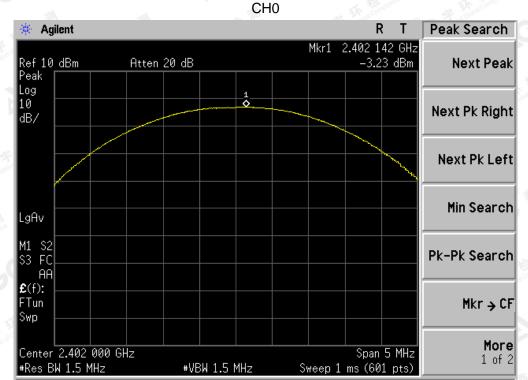
CH78



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	PEAK OUTPUT POWE	R MEASUREMENT RESULT	
	FOR 11 /4-D0	PSK MODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-3.23	21	Pass
2.441	-0.56	21 0	Pass
2.480	-2.20	21	Pass



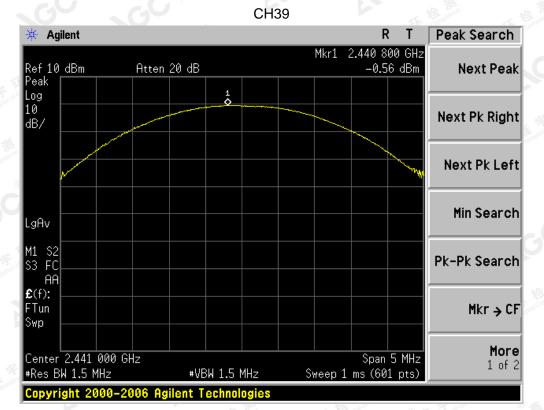
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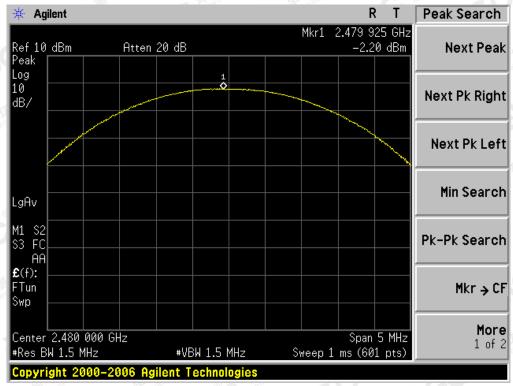




Report No.: AGC01110180205FE04 Page 20 of 72



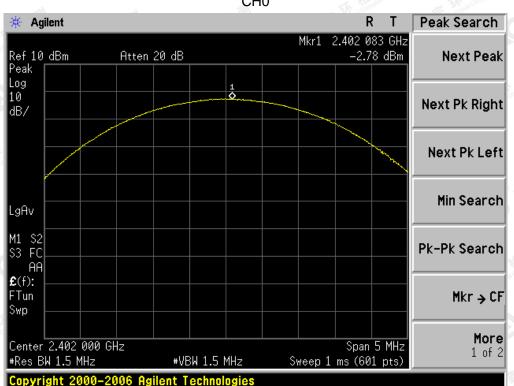
CH78



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	PEAK OUTPUT POWER	MEASUREMENT RESULT	
	FOR 8-DPSK	MODULATION	
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	-2.78	21	Pass
2.441	-0.24	21	Pass
2.480	-1.80	21	Pass



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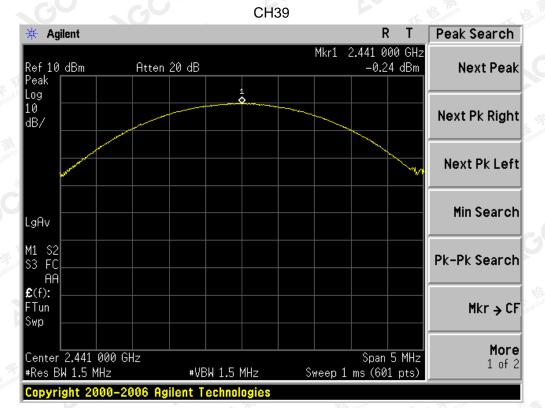
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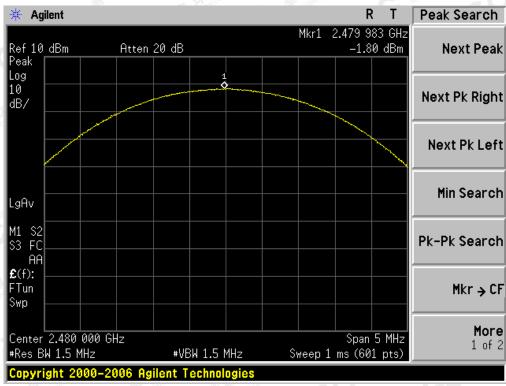
CH0



Report No.: AGC01110180205FE04 Page 22 of 72



CH78



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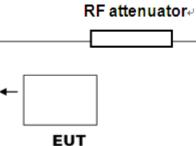
Report No.: AGC01110180205FE04 Page 23 of 72

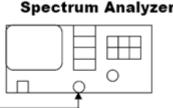
9. BANDWIDTH

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)





RF Cable

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	Test Data (MHz)			Decult
		99%OBW (MHz)	-20dB BW(MHz)	Result
9 . The state Content	Low Channel	0.947	1.087	PASS
N/A	Middle Channel	0.888	1.079	PASS
	High Channel	0.923	1.101	PASS

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

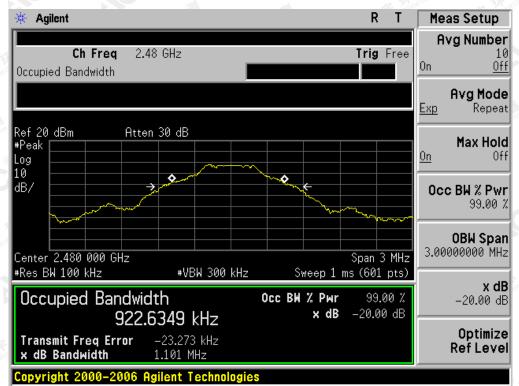
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Agilent R Meas Setup ¥. Avg Number Ch Freq 2.441 GHz Trig Free 10 Off 0n Occupied Bandwidth Avg Mode Repeat <u>Exp</u> Ref 20 dBm Atten 30 dB Max Hold #Peak 0n <u> Ûf</u> Log 10 ٥ dB/ Occ BW % Pwr 99.00 % **OBW Span** 3.00000000 MHz Center 2.441 000 GHz Span 3 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1 ms (601 pts) x dB Occupied Bandwidth Occ BW % Pwr 99.00 % -20.00 dB -20.00 dB x dB 887.7011 kHz Optimize Transmit Freq Error -12.077 kHz **Ref Level** x dB Bandwidth 1.079 MHz

TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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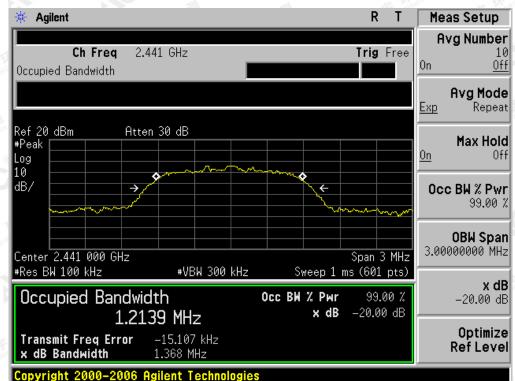
	BLUETOOTH 2	MBPS LIMITS AN	D MEASUREMENT R	ESULT
Measurement Result				
Applicable Limits	Test Data (MHz)			Decult
		99%OBW (MHz)	-20dB BW(MHz)	Result
The the annual	Low Channel	1.212	1.371	PASS
N/A	Middle Channel	1.214	1.368	PASS
SGC "	High Channel	1.211	1.371	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



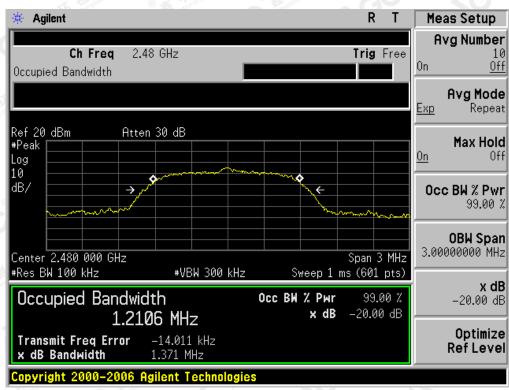
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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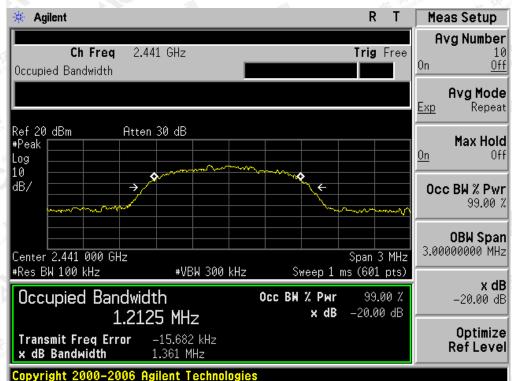
	Intra		
BLUETOOTH :	3MBPS LIMITS AN	D MEASUREMENT R	ESULT
Measurement Result			
Test Data (MHz)			Deput
	99%OBW (MHz)	-20dB BW(MHz)	Result
Low Channel	1.213	1.373	PASS
Middle Channel	1.213	1.361	PASS
High Channel	1.212	1.368	PASS
	Low Channel Middle Channel	Me Test Data (MHz) 99%OBW (MHz) Low Channel 1.213 Middle Channel 1.213	Test Data (MHz)99%OBW (MHz)-20dB BW(MHz)Low Channel1.2131.373Middle Channel1.2131.361





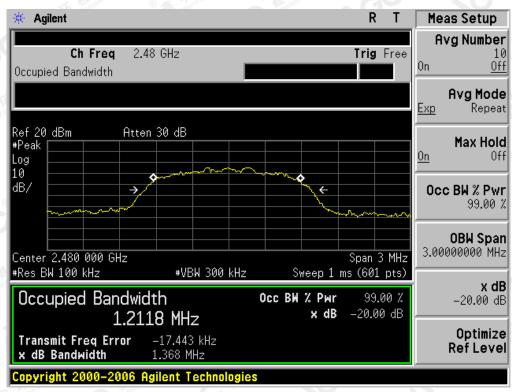
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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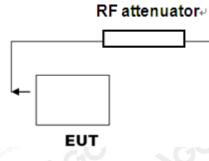
Report No.: AGC01110180205FE04 Page 30 of 72

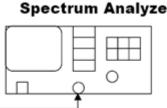
10. CONDUCTED SPURIOUS EMISSION

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.
- 3. 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)





RF Cable

10.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT				
	Measurement Result			
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	· The stand of the			
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	At least -20dBc than the limit Specified on the TOP Channel	PASS		
in§15.209(a))	CO TO SO T			

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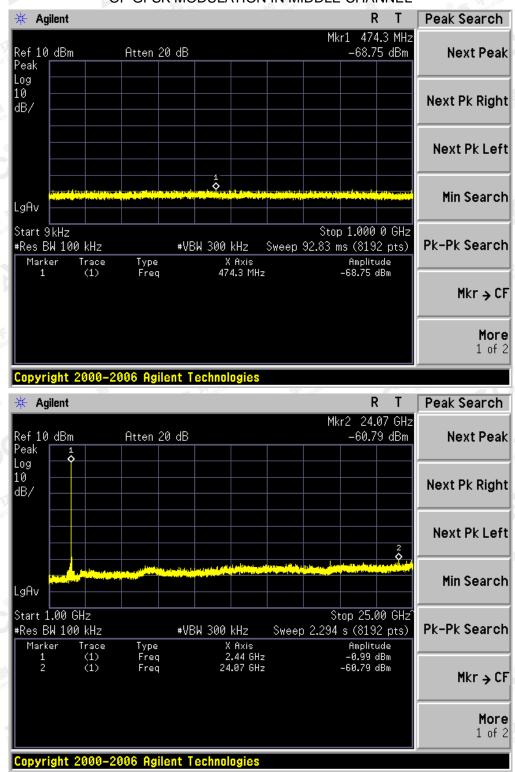
R * Agilent Т Peak Search Mkr1 569.2 MHz Atten 20 dB -69.29 dBm Ref 10 dBm Next Peak Peak Log 10 dB/ Next Pk Right Next Pk Left **Min Search** _gAv Start 9kHz Stop 1.000 0 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 92.83 ms (8192 pts) Pk-Pk Search Trace (1) Type Freq Marker X Axis Amplitude 569.2 MHz -69.29 dBm Mkr → CF More 1 of 2 Copyright 2000-2006 Agilent Technologies 🔆 Agilent R Т Peak Search Mkr2 4.80 GHz -58.08 dBm Ref 10 dBm Atten 20 dB Next Peak Peak Log 10 Next Pk Right dB/ Next Pk Left **Min Search** LgAv Start 1.00 GHz Stop 25.00 GHź #Res BW 100 kHz #VBW 300 kHz Pk-Pk Search Sweep 2.294 s (8192 pts) Type Freq Freq X Axis 2.40 GHz Marker Trace Amplitude -3.44 dBm -58.08 dBm (1) (1) 2 4.80 GHz Mkr → CF More 1 of 2

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

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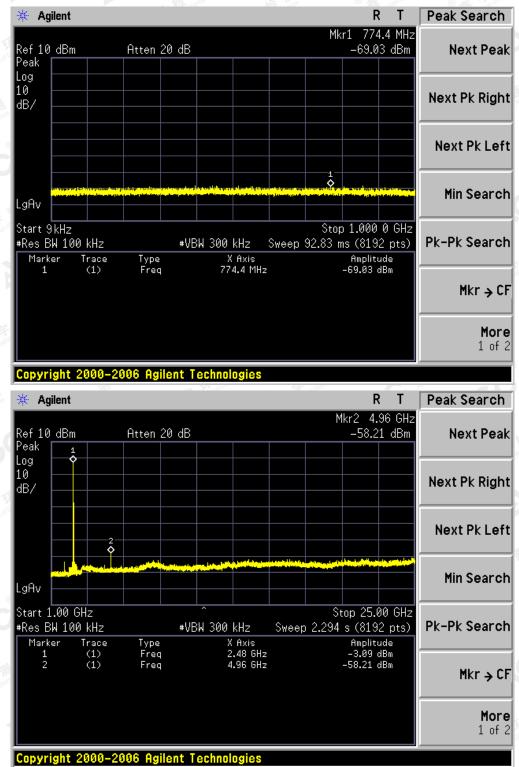


TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

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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)	ane or the deviation of
0.490 ~ 1.705	30	24000/F(kHz)	
1.705 ~ 30	30	30	
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	1 1 3 Th 1	200	46.0
960 ~ 1000	3 Same 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

- 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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Report No.: AGC01110180205FE04 Page 35 of 72

	Spectrum Parameter	Setting
Comit.	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
-C ***	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Hestalon of Gobal C	Start ~Stop Frequency	1GHz~26.5GHz RBW 1MHz/ VBW 3MHz for Peak, RBW 1MHz/ VBW 10Hz for Average

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

		All All Contractions and All All All All All All All All All Al
	Receiver Parameter	Setting
C Allestatio	Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
0	Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
-711	Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

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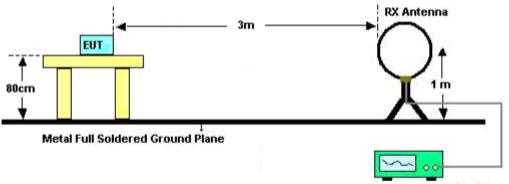




Report No.: AGC01110180205FE04 Page 36 of 72

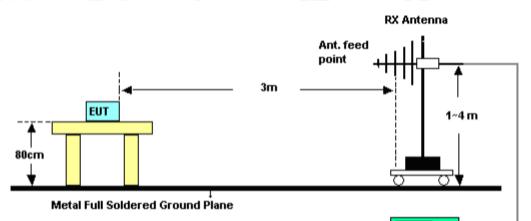
11.3. TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 30MHz



Spectrum Analyzer / Receiver

RADIATED EMISSION TEST SETUP 30MHz-1000MHz



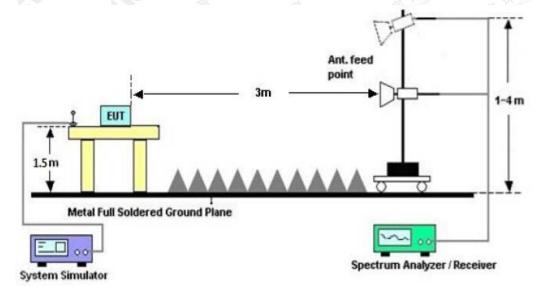
Spectrum Analyzer / Receiver

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Report No.: AGC01110180205FE04 Page 37 of 72



RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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Report No.: AGC01110180205FE04 Page 38 of 72

11.4. TEST RESULT

(Worst Modulation: GFSK)

RADIATED EMISSION BELOW 30MHz

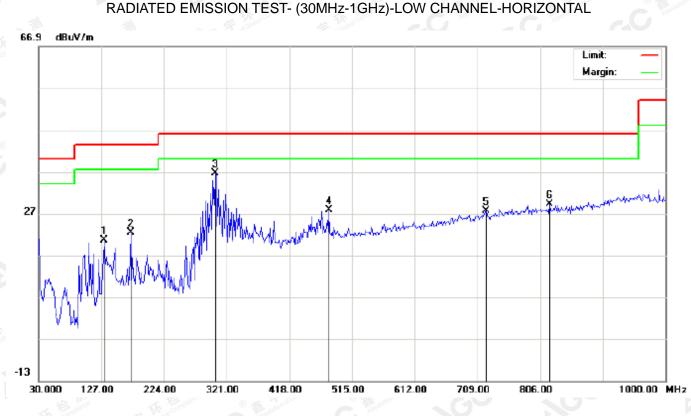
No emission found between lowest internal used/generated frequencies to 30MHz.

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Report No.: AGC01110180205FE04 Page 39 of 72



RADIATED EMISSION BELOW 1GHz

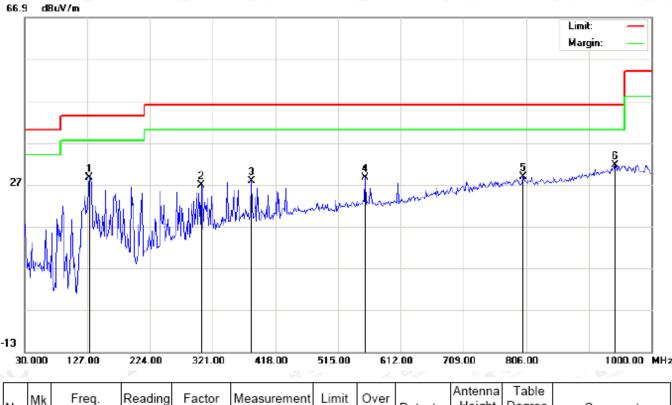
Antenna Table Freq. Reading Factor Measurement Limit Over Mk Height Degree Comment No. Detector dB MHz dBu∨ dB/m dBuV/m dBuV/m degree cm 131.8500 9.18 11.39 20.57 43.50 -22.93 1 peak 2 172.2667 11.59 10.78 22.37 43.50 -21.13 peak 303.2167 20.98 36.60 46.00 3 15.62 -9.40 peak 479.4333 20.91 27.74 4 6.83 46.00 -18.26 peak 5 721.9333 1.71 25.84 27.55 46.00 -18.45 peak 820.5500 1.91 27.32 29.23 6 46.00 -16.77 peak

RESULT: PASS

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Report No.: AGC01110180205FE04 Page 40 of 72



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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1		130.2332	17.38	11.13	28.51	43.50	-14.99	peak			
2		303.2167	11.10	15.62	26.72	46.00	-19.28	peak			
3		380.8167	8.87	18.94	27.81	46.00	-18.19	peak			
4		557.0333	6.01	22.52	28.53	46.00	-17.47	peak			
5		801.1500	1.43	27.32	28.75	46.00	-17.25	peak			
6	*	943.4167	1.83	29.82	31.65	46.00	-14.35	peak			

RESULT: PASS

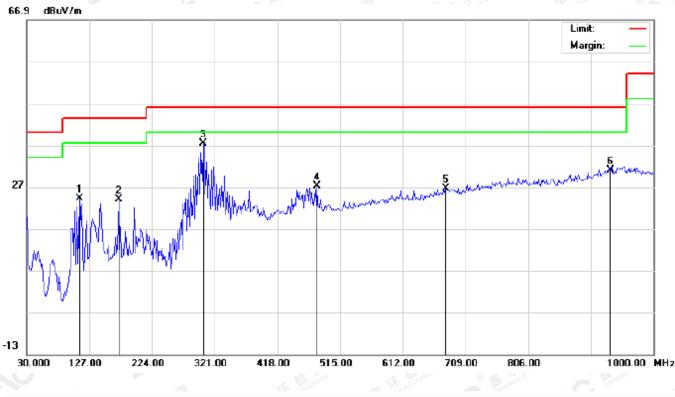
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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Report No.: AGC01110180205FE04 Page 41 of 72



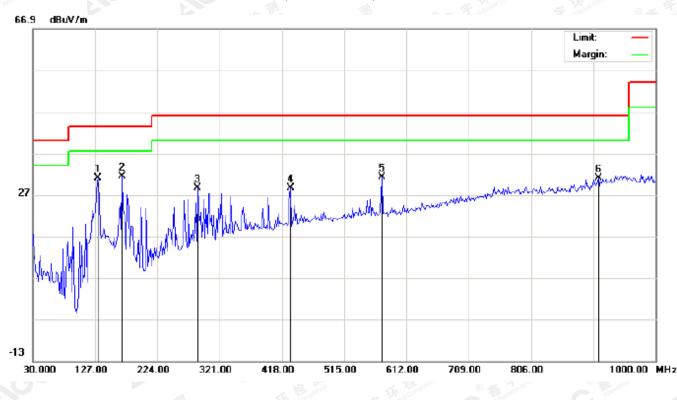
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
1	•	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		112.4500	16.51	7.60	24.11	43.50	-19.39	peak			
2		172.2667	13.15	10.78	23.93	43.50	-19.57	peak			
3	*	303.2167	21.72	15.62	37.34	46.00	-8.66	peak			
4		479.4333	6.25	20.91	27.16	46.00	-18.84	peak			
5		678.2833	1.96	24.62	26.58	46.00	-19.42	peak			
6		933.7167	1.50	29.55	31.05	46.00	-14.95	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	dBuV/m	dBuV/m	dB		cm	degree	
1		131.8500	19.21	11.80	31.01	43.50	-12.49	peak			
2	*	169.0333	16.62	14.76	31.38	43.50	-12.12	peak			
3		287.0500	13.51	15.02	28.53	46.00	-17.47	peak			
4		430.9333	8.61	20.01	28.62	46.00	-17.38	peak			
5		573.2000	8.70	22.60	31.30	46.00	-14.70	peak			
6		911.0833	2.00	28.92	30.92	46.00	-15.08	peak			

RESULT: PASS

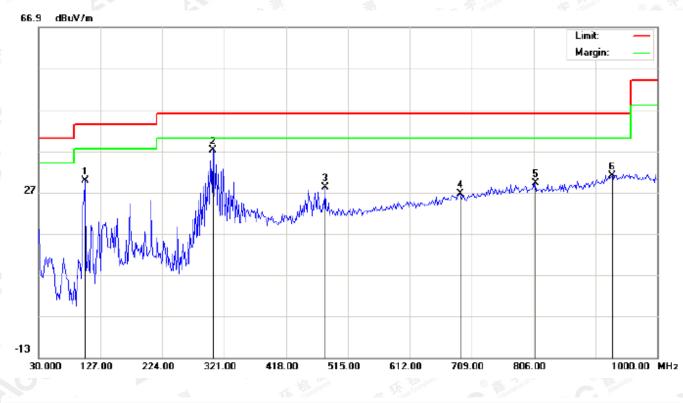
Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

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

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Report No.: AGC01110180205FE04 Page 43 of 72



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

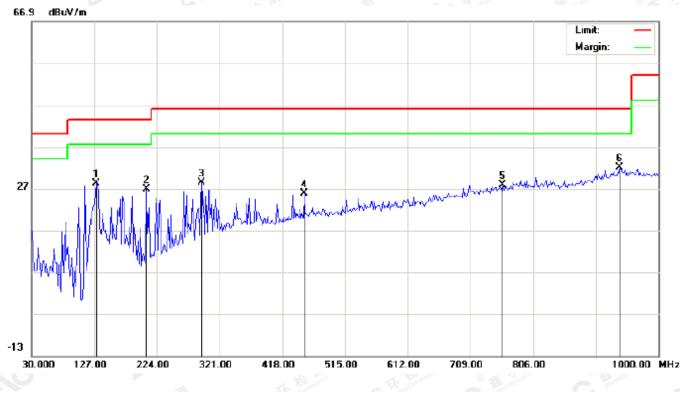
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		102.7500	19.93	9.84	29.77	43.50	-13.73	peak			
2	*	303.2167	21.59	15.62	37.21	46.00	-8.79	peak			
3		479.4333	7.39	20.91	28.30	46.00	-17.70	peak			
4		691.2167	1.66	24.98	26.64	46.00	-19.36	peak			
5		809.2333	1.93	27.32	29.25	46.00	-16.75	peak			
6		928.8667	1.61	29.41	31.02	46.00	-14.98	peak			

RESULT: PASS

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Report No.: AGC01110180205FE04 Page 44 of 72



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	dBuV/m	dBuV/m	dB		cm	degree	
1		130.2332	17.08	11.13	28.21	43.50	-15.29	peak			
2		207.8333	17.06	9.77	26.83	43.50	-16.67	peak			
3		293.5167	13.13	15.21	28.34	46.00	-17.66	peak			
4		451.9500	5.24	20.61	25.85	46.00	-20.15	peak			
5		759.1167	1.04	26.76	27.80	46.00	-18.20	peak			
6	*	940.1833	2.28	29.73	32.01	46.00	-13.99	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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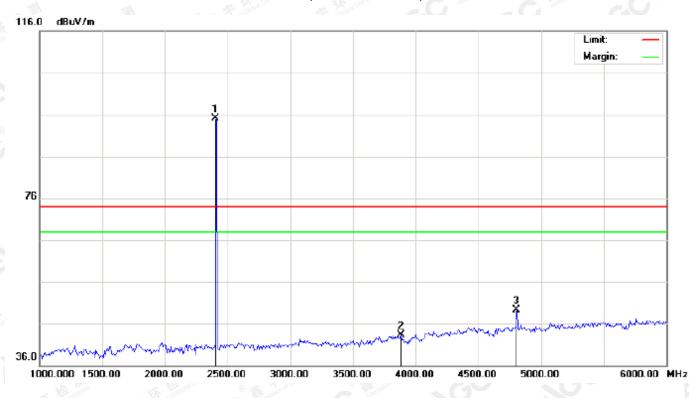




Report No.: AGC01110180205FE04 Page 45 of 72

RADIATED EMISSION ABOVE 1GHz

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

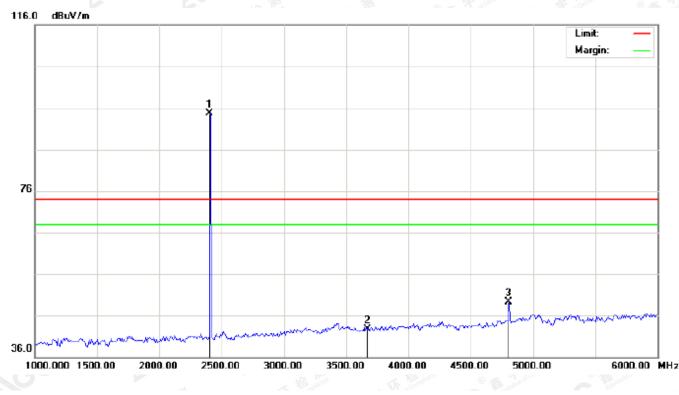


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2402.000	84.83	10.32	95.15	74.00	21.15	peak			
2		3883.333	28.79	14.47	43.26	74.00	-30.74	peak			
3		4804.000	41.71	7.69	49.40	74.00	-24.60	peak			

RESULT: PASS

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RADIATED EMISSION ABOVE 1GHz	1-10 th Harmonics)-LOW CHANNEL –VERTICAL
	1-10 Hallionics)-LOW CHAINEL -VERTICAL

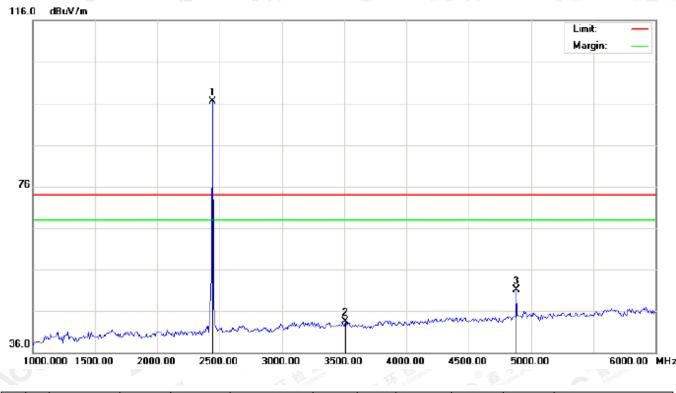
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBu∀/m	dB		cm	degree	
1	*	2402.000	84.44	10.32	94.76	74.00	20.76	peak			
2		3666.667	29.61	13.14	42.75	74.00	-31.25	peak			
3		4804.000	41.55	7.69	49.24	74.00	-24.76	peak			

RESULT: PASS

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



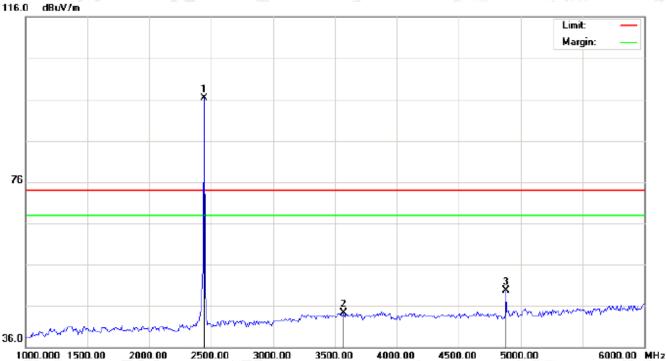
1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
Γ	1	*	2441.000	86.23	10.36	96.59	74.00	22.59	peak			
Γ	2		3508.333	31.32	12.16	43.48	74.00	-30.52	peak			
	3		4882.000	43.16	7.89	51.05	74.00	-22.95	peak			

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	dBuV/m	dBu∨/m	dB		cm	degree	
1	*	2441.000	85.89	10.36	96.25	74.00	22.25	peak			
2		3566.667	31.71	12.52	44.23	74.00	-29.77	peak			
3		4882.000	41.89	7.89	49.78	74.00	-24.22	peak			

RESULT: PASS

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116.0 dBuV/m Limit: Margin: į 76 3 X 36.0 1000.000 1500.00 2000.00 2500.00 3000.00 3500.00 4000.00 4500.00 5000.00 6000.00 MHz

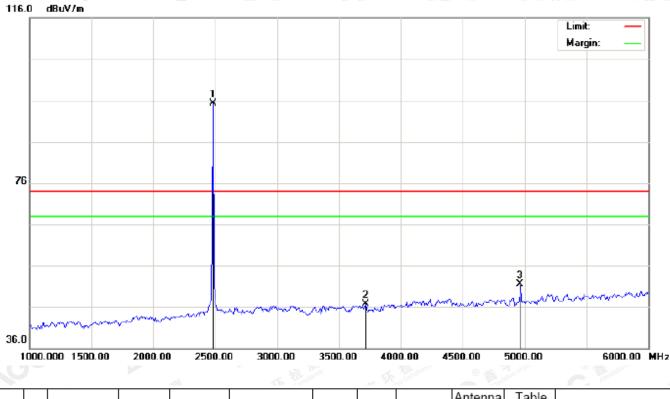
	Harmonics)-HIGH CHANNEL-HORIZONTAL	
	HAIIIIOIIICS)-HIGH CHAINNEL-HORIZON IAL	

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	85.43	10.41	95.84	74.00	21.84	peak			
2		3708.333	31.59	13.39	44.98	74.00	-29.02	peak			
3		4960.000	43.60	8.09	51.69	74.00	-22.31	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	Table Degree	Comment	
	-	MHz	dBu∨	dB/m	dBu∀/m	dBu∨/m	dB		cm	degree		
1	*	2480.000	84.97	10.41	95.38	74.00	21.38	peak				
2		3716.667	33.22	13.44	46.66	74.00	-27.34	peak				
3		4960.000	43.41	8.09	51.50	74.00	-22.50	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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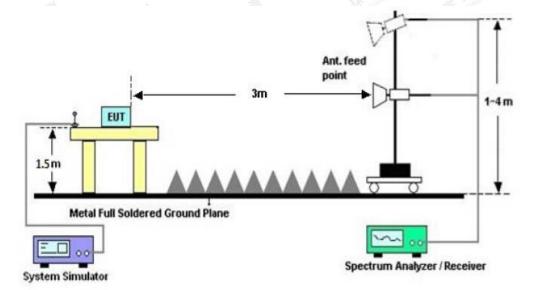
Report No.: AGC01110180205FE04 Page 51 of 72

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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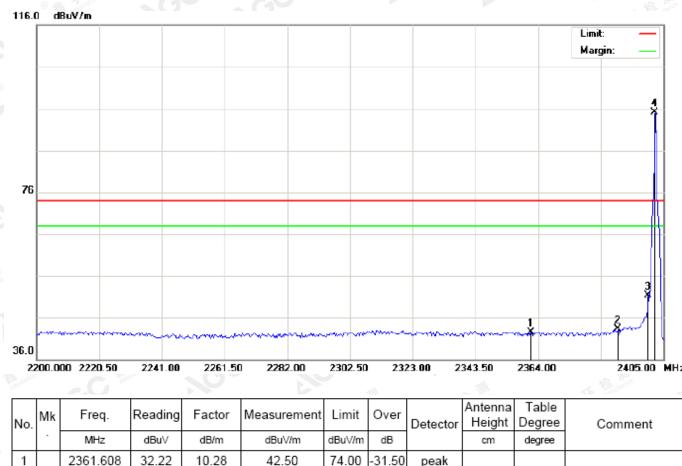
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Report No.: AGC01110180205FE04 Page 52 of 72

12.3. TEST RESULT

(Worst Modulation: GFSK)

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



74.00

74.00

74.00

-30.69

-22.71

21.04

43.31

51.29

95.04

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2

3

4

2390.000

2400.000

2402.000

10.31

10.32

10.32

33.00

40.97

84.72

peak

peak

peak

peak

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116.0 dBuV/m Limit: Margin: 76 36.0 2200.000 2220.50 2241.00 2261.50 2282.00 2302.50 2323.00 2343.50 2364.00 2405.00 MHz Antenna Table

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

Report No.: AGC01110180205FE04

Page 53 of 72

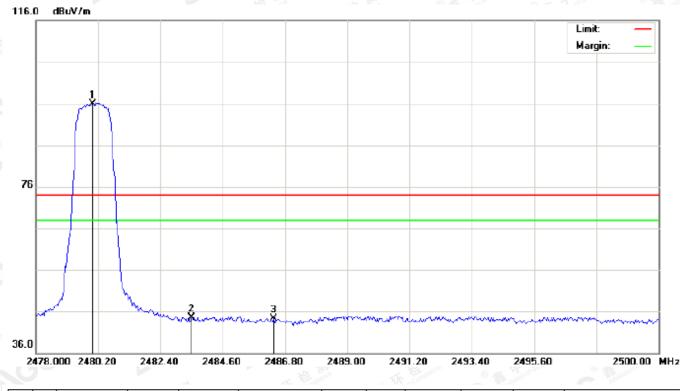
Reading Factor Measurement Limit Over Freq. Mk Height Degree No Detector Comment MHz dBu∨ dB/m dBuV/m dBuV/m dB cm degree 2375.275 32.10 10.29 42.39 74.00 -31.61 1 peak 2 2390.000 32.21 10.31 42.52 74.00 -31.48 peak 3 2400.000 10.32 74.00 27.62 36.06 46.38 peak 2402.000 84.59 10.32 94.91 74.00 20.91 4 peak

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Report No.: AGC01110180205FE04 Page 54 of 72



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

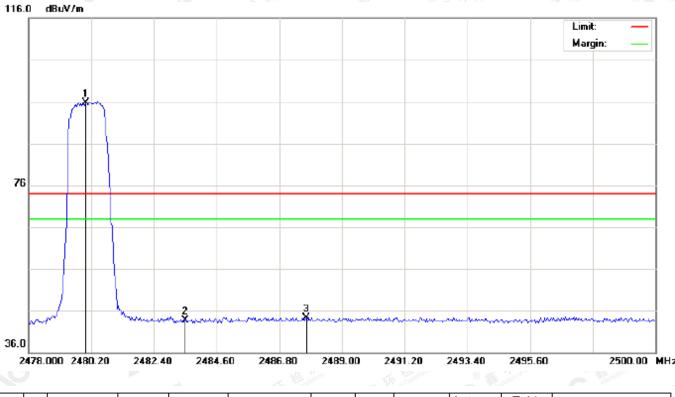
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree	
1	*	2480.000	85.55	10.41	95.96	74.00	21.96	peak			
2		2483.500	34.19	10.41	44.60	74.00	-29.40	peak			
3		2486.396	33.86	10.41	44.27	74.00	-29.73	peak			

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Report No.: AGC01110180205FE04 Page 55 of 72



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	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	85.32	10.41	95.73	74.00	21.73	peak			
2		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
3		2487.753	33.95	10.42	44.37	74.00	-29.63	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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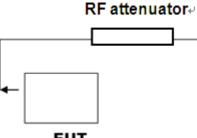
Report No.: AGC01110180205FE04 Page 56 of 72

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)



EUT

Spectrum Analyzer

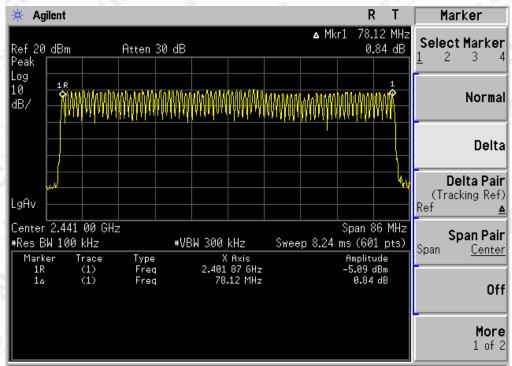
RF Cable

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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Report No.: AGC01110180205FE04 Page 58 of 72

14. TIME OF OCCUPANCY (DWELL TIME)

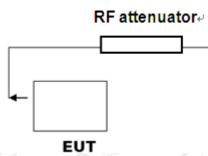
14.1. MEASUREMENT PROCEDURE

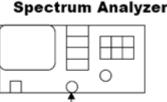
1. Place the EUT on the table and set it in transmitting mode

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)





RF Cable

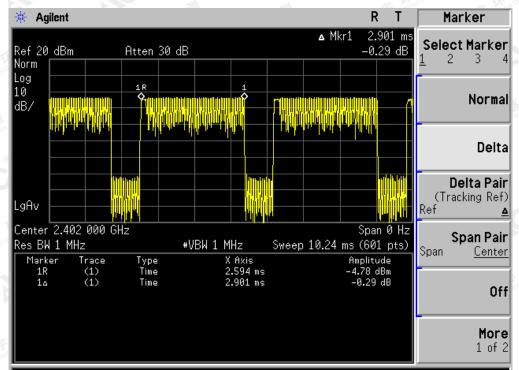
14.3. LIMITS AND MEASUREMENT RESULT

	The We	orst Case (1Mbps)	C Meet C	
Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.901	31.6	309.44	400
Middle	2.883	31.6	307.52	400
High	2.901	31.6	309.44	400

Low Channel Time 2.901*(1600/6)/79*31.6=309.44ms Middle Channel Time 2.883*(1600/6)/79*31.6=307.52ms **High Channel Time** 2.901*(1600/6)/79*31.6=309.44ms

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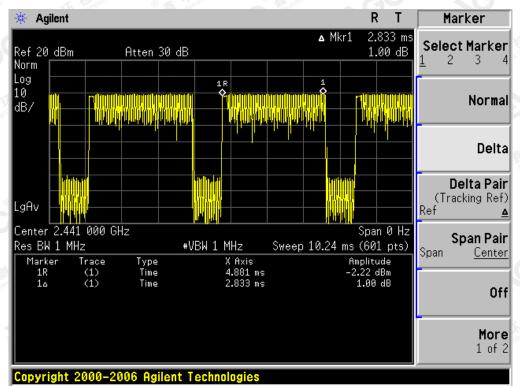




TEST PLOT OF LOW CHANNEL

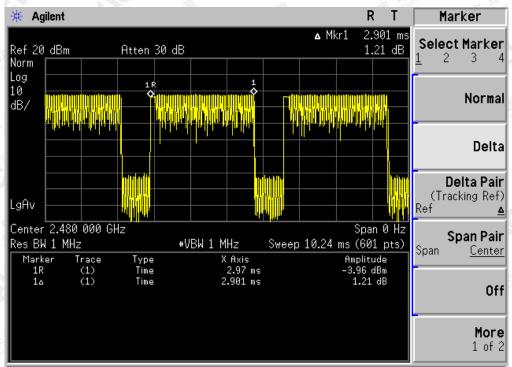
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TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH CHANNEL

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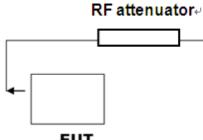
Report No.: AGC01110180205FE04 Page 61 of 72

15. FREQUENCY SEPARATION

15.1. MEASUREMENT PROCEDURE

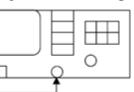
- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span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

15.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)



EUT

Spectrum Analyzer



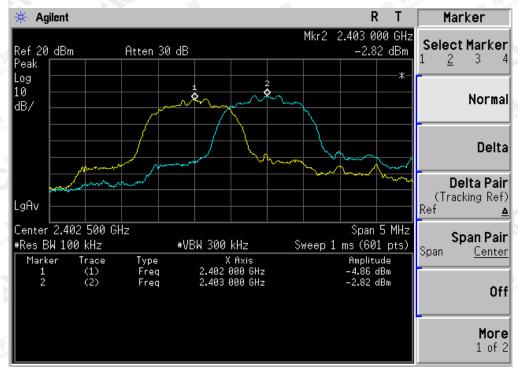
15.3. LIMITS AND MEASUREMENT RESULT

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

RF Cable

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TEST PLOT FOR FREQUENCY SEPARATION (1Mbps)

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16. LINE CONDUCTED EMISSION TEST

16.1. LIMITS OF LINE CONDUCTED EMISSION TEST

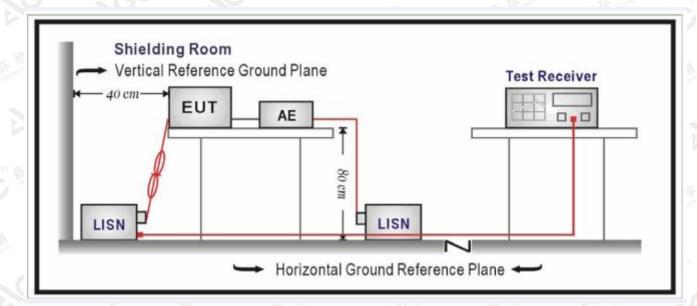
F	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	o 56	46				
5MHz~30MHz	60	50				

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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Report No.: AGC01110180205FE04 Page 64 of 72

16.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 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

- 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.

16.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

N/A

Note: The BT function of EUT didn't work when charging.

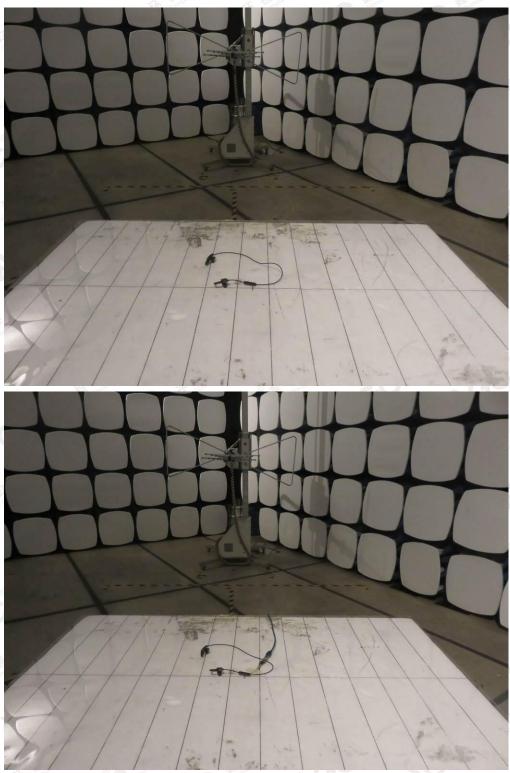
The results showing this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at attp://www.agc.gett.com.





Report No.: AGC01110180205FE04 Page 65 of 72

APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP

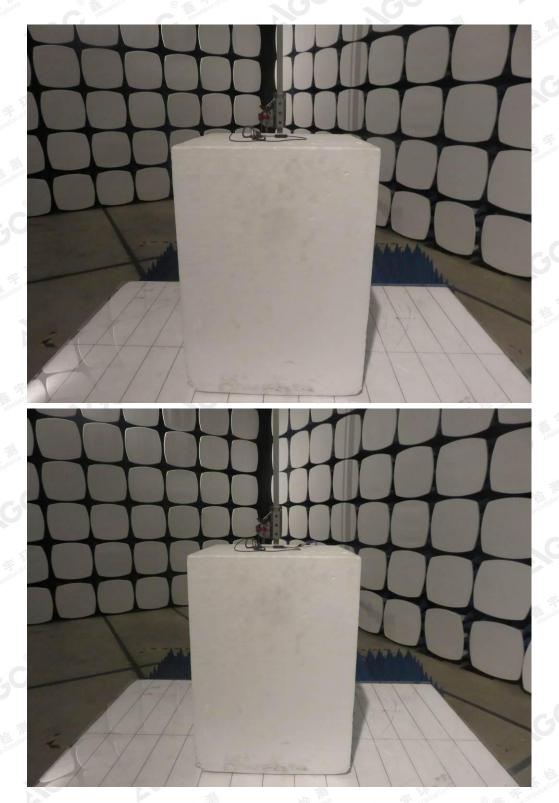


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Report No.: AGC01110180205FE04 Page 66 of 72



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Report No.: AGC01110180205FE04 Page 67 of 72



APPENDIX B: PHOTOGRAPHS OF EUT TOTAL VIEW OF EUT

TOP VIEW OF EUT



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Report No.: AGC01110180205FE04 Page 68 of 72



BOTTOM VIEW OF EUT

FRONT VIEW OF EUT



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Report No.: AGC01110180205FE04 Page 69 of 72

BACK VIEW OF EUT



LEFT VIEW OF EUT



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Report No.: AGC01110180205FE04 Page 70 of 72

RIGHT VIEW OF EUT



VIEW OF EUT (Port)



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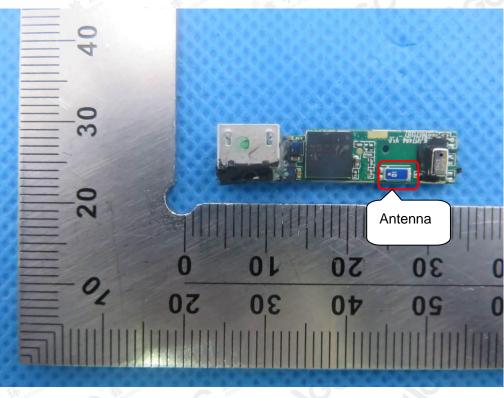


Report No.: AGC01110180205FE04 Page 71 of 72

OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1

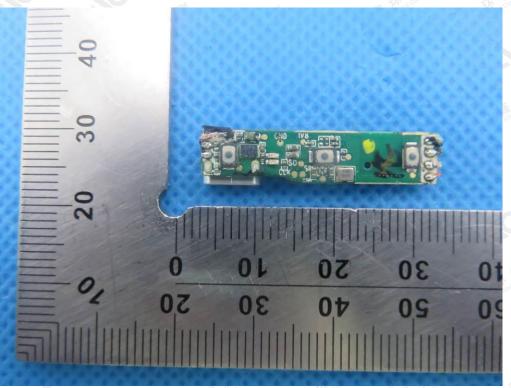


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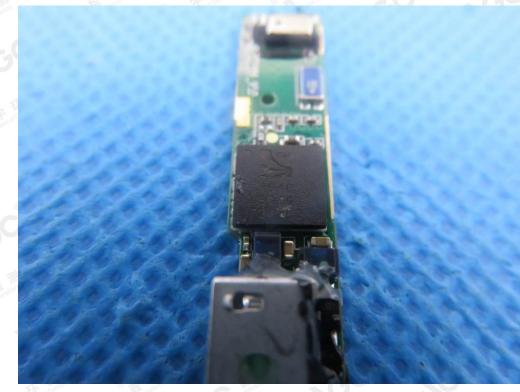


Report No.: AGC01110180205FE04 Page 72 of 72

INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



----END OF REPORT----

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