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FCC Test Report

Report No.: AGC00159180401FE03

FCC ID	Ē	QIF-B89
APPLICATION PURPOSE	;	Original Equipment
PRODUCT DESIGNATION	FI on of Global	Bluetooth Speaker
BRAND NAME	-	N/A
MODEL NAME	C 4	B89
CLIENT	G	My Music Group Limited
DATE OF ISSUE	-10-	May 04, 2018
STANDARD(S) TEST PROCEDURE(S)	npliance	FCC Part 15 Subpart C Section 15.249
REPORT VERSION		V1.0
		Compliance

Attestation of Global Compliance (Shenzhen) Co., Ltd

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Report Version	Revise Time Issued Date		Valid Version	Notes	
V1.0		May 04, 2018	Valid	Initial release	

Report Revise Record

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1. VERIFICAT	ION OF CC	NFORMITY

Applicant	My Music Group Limited
Address	Room2026, Global Logistics Service Center, China South City, Pinghu Town, Long Gang Distric Shenzhen, 518111 China
Manufacturer	Dongguan Fulun Electronic Co.,Limited
Address	4-8/F, Building B, Xinbosheng Industrial Park, No.5 Xinyuan S Rd, Tangxia, Dongguan, China
Product Designation	Bluetooth Speaker
Brand Name	N/A
Test Model	B89
Date of test	Apr. 24, 2018 to May 04, 2018
Deviation	None
Condition of Test Sample	Normal CC CC
Report Template	AGCRT-US-BR/RF

We hereby certify that:

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

Tested By

Henry Zhang

Henry Zhang(Zhang Zhuorui) May 03, 2018

ved chang

Reviewed By

Cool Cheng(Cheng Mengguo) May 04, 2018

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Approved By

Forrest Lei(Lei Yonggang) Authorized Officer

May 04, 2018

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2. GENERAL INFORMATION 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as	s following
--	-------------

Operation Frequency	2.402 GHz to 2.480GHz
RF Output Power	2.12dBm(Max EIRP Power=Max radiation field-95.2)
Bluetooth Version	V4.2
Modulation	BR ⊠GFSK, EDR ⊠π/4-DQPSK, ⊠8DPSK BLE ⊡GFSK
Number of channels	79 for BR/EDR
Hardware Version	
Software Version	085
Antenna Designation	PCB Antenna
Antenna Gain	0dBi
Power Supply	DC 3.7V by battery
Note: The USB port only	used for charging and can't be used to transfer data with PC.

2.2. TABLE OF CARRIER FREQUENCYS

BR/EDR channel List

Frequency Band	Channel Number	Frequency
NGU	0	2402MHz
The the The		2403MHz
C Franklin of Gobalt C		
GC SC	38	2440 MHz
2400~2483.5MHz	39	2441 MHz
The tomate Commence	40	2442 MHz
of other SGC Meet		
	77	2479 MHz
The the same	78	2480 MHz

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3. MEASUREMENT UNCERTAINTY

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

- Uncertainty of Conducted Emission, $Uc = \pm 3.2 dB$
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

TEST MODE DESCRIPTION
Low channel GFSK
Middle channel GFSK
High channel GFSK
Low channel π /4-DQPSK
Middle channel π /4-DQPSK
High channel π /4-DQPSK
Low channel 8DPSK
Middle channel 8DPSK
High channel 8DPSK
BT Link with charging
BT Link

4. DESCRIPTION OF TEST MODES

Note:

1. All the test modes can be supply by battery, only the result of the worst case was recorded in the report, if no other cases.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The EUT used fully-charged battery when tested.

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	Software Setting	· · · ································
BK3256 RF Test -	- ¥1, 3	
(件で) 帮助(H)		
亚测试		_
	通讯端口 COM2 Close	
┌ ₨测试		R
_ ℃砌成	· 软件测试	3×
DUT测试模式	频点 2 📑 TX RX 数据类型 Png 🔽 退出测试	
	功率 🛐 🔂 🔽 🗛 📴 🗍 Hopping 包类型 🛛 🔁 📄 🗌 🚺	
[attach 0] TS		
saradc_charger_full_	threshold=720	
	enabled: fc:58:fa:66:24:31	
app_wave_file_play_s [enable_complete 0 0	:top () 0]	
[CMD] singlewave tes app_bt_enable_dut_mo	t mode enable	
OK app_wave_file_play_s	top ()	20. 20.
[disable_complete O	disabled: fc:58:fa:66:24:31 00]	
Enter Dut test mode [CMD] test mode conf EUT TEST MODE START.	ig, d_mode: 1, freq: 2, power level: 1, p_mode: 5, hopping: 0.	
LOI ILSI MUDE STARI.	···	
		-

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5. SYSTEM TEST CONFIGURATION 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)

EUT



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

ltem	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Bluetooth Speaker	Fulun	B89	EUT
2	Battery	GJ	702030	Accessory
3	PC PC	APPLE	A1465	A.E
4	Control box	BEKEN	N/A	A.E
5	Adapter	IPRO	NTR-S01	A.E
6	USB Cable	N/A	1m unshielded	A.E
7	AUX in Cable	N/A	1m unshielded	A.E
8	Mobile Phone	HUAWEI	V8	A.E

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5.3. SUMMARY OF TEST RESULTS

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

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6. TEST FACILITY

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

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7. TEST METHOD

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

8. TEST EQUIPMENT LIST

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

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

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.20, 2017	Jun.19, 2018
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 18, 2017	May 17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.20, 2017	Jun.19, 2018
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018
Loop Antenna	A.H.Systems,Inc	SAS-562B	.	Mar. 01, 2018	Feb. 28, 2020
Radiation Cable 1	МХТ	RS1	R005	June 6, 2017	June 5, 2018
Radiation Cable 2	МХТ	RS1	R006	June 6, 2017	June 5, 2018
Filter (2.4-2.483GHz)	Micro-tronics	087		Jun.20, 2017	Jun.19, 2018

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9. RADIATED EMISSION

9.1TEST LIMIT

Standard FCC15.249

Fundamental	Field Strength of Fundamental	Field Strength of Harmonics				
Frequency	(millivolts/meter)	(microvolts/meter)				
900-928MHz	50	500				
2400-2483.5MHz	50 6	500				
5725-5875MHz	50	500				
24.0-24.25GHz	250	2500				

Standard FCC 15.209

Frequency	Distance	Field Strengths Limit				
(MHz)	Meters	μ V/m	dB(µV)/m			
0.009 ~ 0.490	300	2400/F(kHz)				
0.490 ~ 1.705	30	24000/F(kHz)				
1.705 ~ 30	30	30	E England Con Call			
30 ~ 88	3	100	40.0			
88 ~ 216	3	150	43.5			
216 ~ 960	3	200	46.0			
960 ~ 1000	3	500	54.0			
Above 1000	3 South States	Other:74.0 dB(µV)/m (Average)	(Peak) 54.0 dB(µV)/m			

Remark: (1) Emission level dB μ V = 20 log Emission level μ V/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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9.2. MEASUREMENT PROCEDURE

- 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)
- 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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Spectrum 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
Start ~Stop Frequency	Fundamental: 2.4~2.483GHz RBW 2MHz/ VBW 6MHz for Peak, RBW 2MHz/ VBW 10Hz for Average Harmonics: 1GHz~25GHz 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

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

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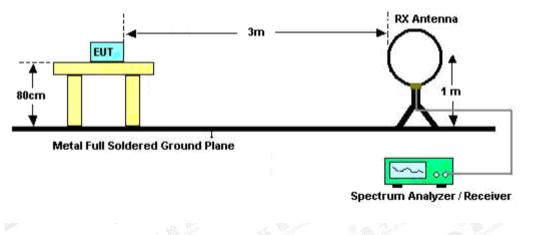




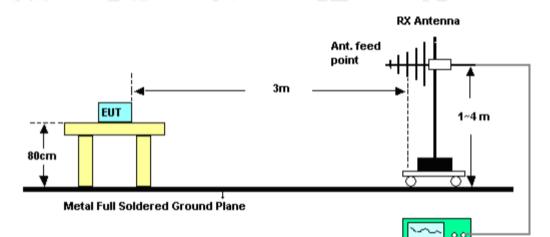
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9.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



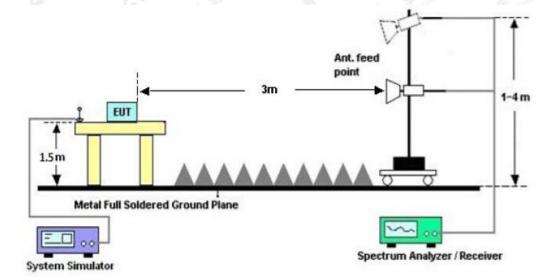
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Spectrum Analyzer / Receiver



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RADIATED EMISSION TEST SETUP ABOVE 1000MHz

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9.4. TEST RESULT FOR BR/EDR (Worst modulation: 8DPSK)

RADIATED EMISSION BELOW 30MHz

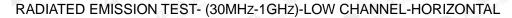
No emission found between lowest internal used/generated frequencies to 30MHz.

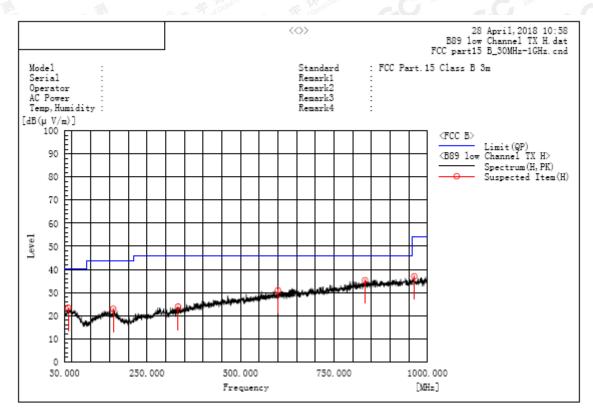
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RADIATED EMISSION BELOW 1GHz



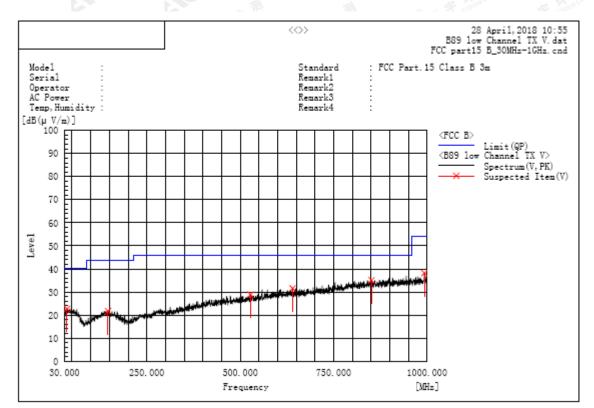


A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
964.595	Н	6.2	30.8	37.0	54.0	17.0	Pass	200.0	177.7
833.160	Н	6.0	29.3	35.3	46.0	10.7	Pass	150.0	249.9
600.360	н	6.0	24.9	30.9	46.0	15.1	Pass	100.0	272.5
333.610	Н	5.5	18.3	23.8	46.0	22.2	Pass	150.0	249.9
159.980	Н	6.3	16.6	22.9	43.5	20.6	Pass	200.0	177.7
39.700	Н	6.0	17.4	23.4	40.0	16.6	Pass	100.0	235.9

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
36.305	v	6.2	16.6	22.8	40.0	17.2	Pass	150.0	72.2
992.725	v	7.2	31.0	38.2	54.0	15.8	Pass	100.0	36.4
146.400	v	5.1	16.6	21.7	43.5	21.8	Pass	150.0	72.2
527.125	v	5.5	23.4	28.9	46.0	17.1	Pass	100.0	108.3
640.130	v	6.1	25.5	31.6	46.0	14.4	Pass	150.0	213.6
851.105	v	5.5	29.6	35.1	46.0	10.9	Pass	100.0	287.0

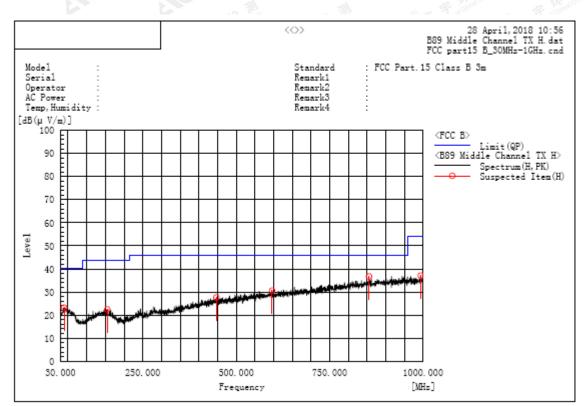
RESULT: PASS

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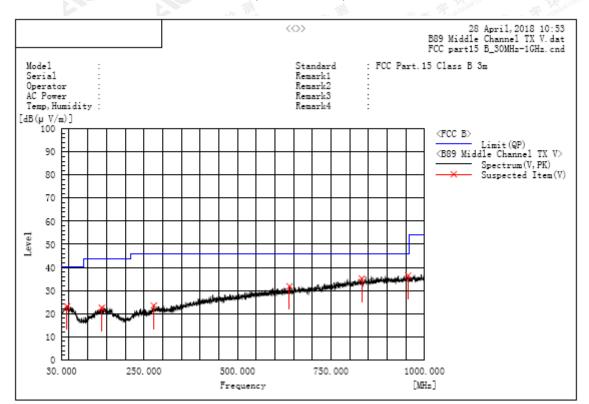
RADIATED EMISSION TEST- (30MHz-1GHz)-MIDDLE CHANNEL-HORIZONTAL

A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg	
	39.700	н	5.8	17.4	23.2	40.0	16.8	Pass	200.0	158.7	2010
	155.130	Н	5.9	16.6	22.5	43.5	21.0	Pass	200.0	176.5	
	447.100	н	5.7	22.0	27.7	46.0	18.3	Pass	200.0	50.6	
N.	595.995	Н	5.7	24.9	30.6	46.0	15.4	Pass	150.0	288.1	
	855.470	Н	7.0	29.7	36.7	46.0	9.3	Pass	100.0	327.3	1 N N N
	993.695	н	6.0	31.1	37.1	54.0	16.9	Pass	200.0	302.6	

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
44.550	v	5.8	17.3	23.1	40.0	16.9	Pass	100.0	289.7
137.185	v	5.9	16.6	22.5	43.5	21.0	Pass	100.0	113.2
276.380	v	5.9	17.6	23.5	46.0	22.5	Pass	200.0	355.7
639.160	v	6.3	25.5	31.8	46.0	14.2	Pass	100.0	138.8
832.675	v	5.9	29.3	35.2	46.0	10.8	Pass	150.0	125.8
956.350	v	5.7	30.7	36.4	46.0	9.6	Pass	100.0	224.2

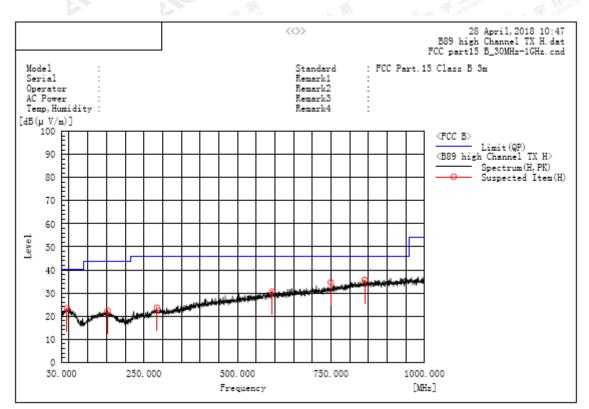
RESULT: PASS

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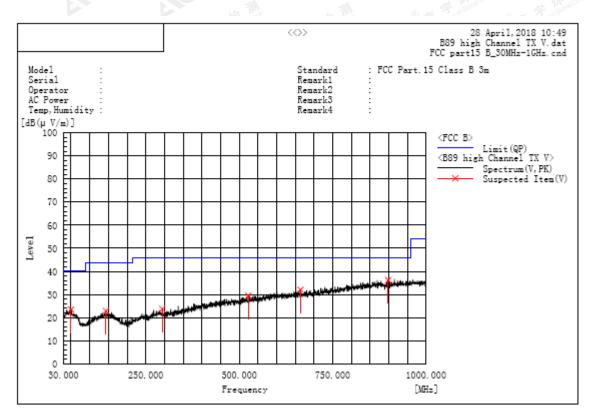
RADIATED EMISSION TEST- (30MHz-1GHz)-HIGH CHANNEL-HORIZONTAL

A. Suspected List:

	Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg	
	44.550	н	6.0	17.3	23.3	40.0	16.7	Pass	100.0	299.0	21.12
l	153.190	н	5.7	16.6	22.3	43.5	21.2	Pass	200.0	357.4	
	285.110	н	5.9	17.7	23.6	46.0	22.4	Pass	100.0	352.0	
1	592.600	Н	5.8	24.8	30.6	46.0	15.4	Pass	150.0	212.8	
	749.740	н	7.1	27.5	34.6	46.0	11.4	Pass	100.0	78.7	1
	840.435	Н	6.2	29.4	35.6	46.0	10.4	Pass	100.0	255.8	

RESULT: PASS

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

A. Suspected List:

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(u∨/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
49.885	v	6.4	17.1	23.5	40.0	16.5	Pass	100.0	159.0
143.490	v	6.3	16.6	22.9	43.5	20.6	Pass	200.0	36.6
293.840	v	6.2	17.5	23.7	46.0	22.3	Pass	100.0	143.2
524.215	v	6.2	23.3	29.5	46.0	16.5	Pass	150.0	197.0
663.895	v	6.2	25.8	32.0	46.0	14.0	Pass	100.0	289.9
898.635	v	6.0	30.2	36.2	46.0	9.8	Pass	100.0	19.6

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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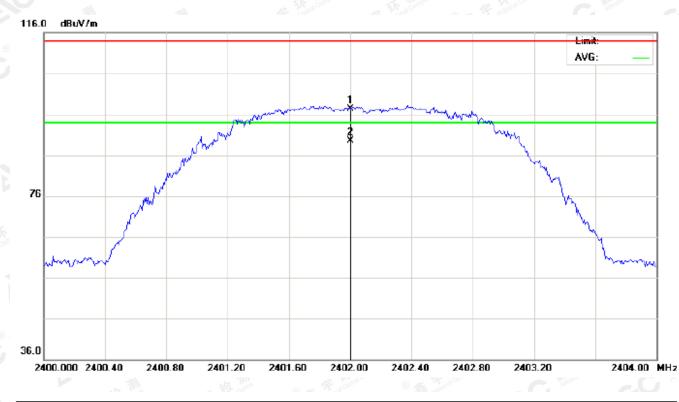
RADIATED EMISSION ABOVE 1GHz

FOR BR/EDR

(Worst modulation: 8DPSK)

For Fundamental

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



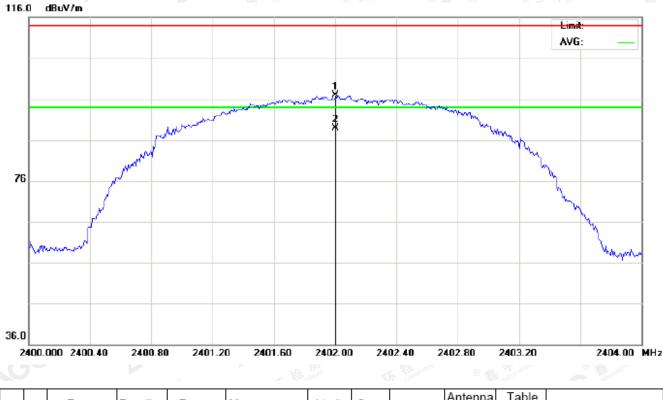
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2402.000	87.00	10.32	97.32	114.00	-16.68	peak			
2	*	2402.000	79.10	10.32	89.42	94.00	-4.58	AVG	100	145	

RESULT: PASS

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

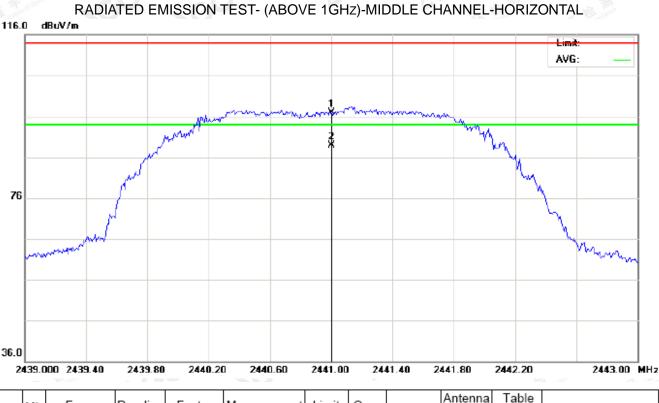
	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
2		-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree		
	1		2402.000	86.56	10.32	96.88	114.00	-17.12	peak				100
	2	*	2402.000	78.65	10.32	88.97	94.00	-5.03	AVG	100	251		3

RESULT: PASS

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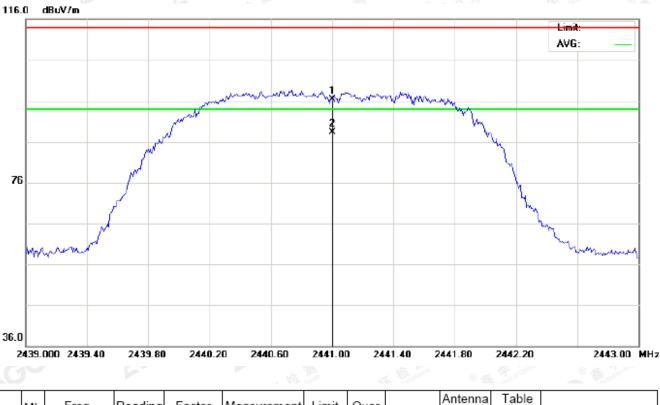


No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	•	MHz	dBu∨	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1		2441.000	86.45	10.36	96.81	114.00	-17.19	peak			
2	*	2441.000	78.48	10.36	88.84	94.00	-5.16	AVG	100	244	

RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment	
	-	MHz	dBu∨	dB/m	dBuV/m	dBu∨/m	dB		cm	degree		
1		2441.000	85.96	10.36	96.32	114.00	-17.68	peak				
2	*	2441.000	77.99	10.36	88.35	94.00	-5.65	AVG	100	144		3

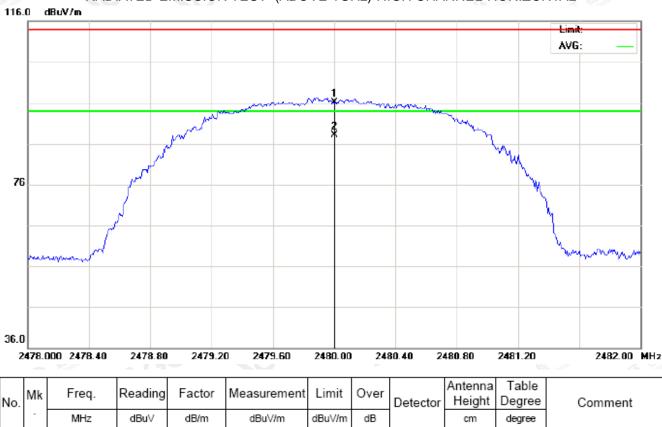
RESULT: PASS

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-17.96

-5.95

peak

AVG

100

255

114.00

94.00

96.04

88.05

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

RESULT: PASS

1

2

2480.000

2480.000

85.63

77.64

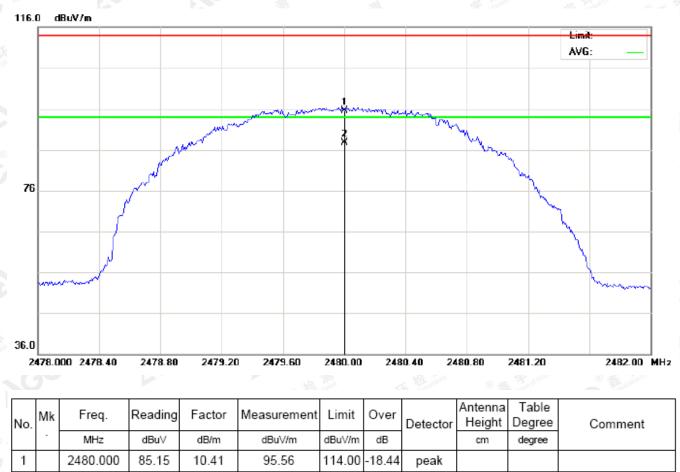
10.41

10.41

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

RESULT: PASS

2480.000

77.21

10.41

2

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

87.62

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

94.00

-6.38

AVG

251

141

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Field strength of the fundamental signal

3Mbps Result:

Peak value

Reading Level	Factor	Measurement	Limit	Over	Antenna
(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
87.00	10.32	97.32	114	-16.68	Horizontal
86.56	10.32	96.88	114	-17.12	Vertical
86.45	10.36	96.81	114 🐋	-17.19	Horizontal
85.96	10.36	96.32	114	-17.68	Vertical
85.63	10.41	96.04	114	-17.96	Horizontal
85.15	10.41	95.56	114	-18.44	Vertical
	Level (dBuv) 87.00 86.56 86.45 85.96 85.63	Level Factor (dBuv) (dB/m) 87.00 10.32 86.56 10.32 86.45 10.36 85.96 10.36 85.63 10.41	LevelFactorMeasurement(dBuv)(dB/m)(dBuv/m)87.0010.3297.3286.5610.3296.8886.4510.3696.8185.9610.3696.3285.6310.4196.04	LevelFactorMeasurementLimit(dBuv)(dB/m)(dBuv/m)(dBuv/m)87.0010.3297.3211486.5610.3296.8811486.4510.3696.8111485.9610.3696.3211485.6310.4196.04114	LevelFactorMeasurementLimitOver(dBuv)(dB/m)(dBuv/m)(dBuv/m)(dB)87.0010.3297.32114-16.6886.5610.3296.88114-17.1286.4510.3696.81114-17.1985.9610.3696.32114-17.6885.6310.4196.04114-17.96

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	79.10	10.32	89.42	94	-4.58	Horizontal	
2402	78.65	10.32	88.97	94	-5.03	Vertical	
2441	78.48	10.36	88.84	94	-5.16	Horizontal	
2441	77.99	10.36	88.35	94	-5.65	Vertical	
2480	77.64	10.41	88.05	94	-5.95	Horizontal	
2480	77.21	10.41	87.62	94	-6.38	Vertical	

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1Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	86.06	10.32	96.38	114	-17.62	Horizontal
2402	85.60	10.32	95.92	114	-18.08	Vertical
2441	85.52	10.36	95.88	114	-18.12	Horizontal
2441	85.10	10.36	95.46	114	-18.54 🍌	Vertical
2480	84.71	10.41	95.12	114	-18.88	Horizontal
2480	84.19	10.41	94.60	114	-19.40	Vertical

Average value

Frequency	Reading Level	Factor Measurement		Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.19	10.32	88.51	94	-5.49	Horizontal
2402	77.73	10.32	88.05	94	-5.95	Vertical
2441	77.57	10.36	87.93	94	-6.07	Horizontal
2441	77.08	10.36	87.44	94	-6.56	Vertical
2480	76.70	10.41	87.11	94	-6.89	Horizontal
2480	76.30	10.41	86.71	94	-7.29	Vertical

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2Mbps Result:

Peak value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna	
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization	
2402	86.52	10.32	96.84	114	-17.16	Horizontal	
2402	86.07	10.32	96.39	114	-17.61	Vertical	
2441	85.99	10.36	96.35	114	-17.65	Horizontal	
2441	85.52	10.36	95.88	114	-18.12 👝	Vertical	
2480	85.16	10.41	95.57	114	-18.43	Horizontal	
2480	84.66	10.41	95.07	114	-18.93	Vertical	

Average value

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	78.66	10.32	88.98	94	-5.02	Horizontal
2402	78.15	10.32	88.47	94	-5.53	Vertical
2441	78.01	10.36	88.37	94	-5.63	Horizontal
2441	77.50	10.36	87.86	94	-6.14	Vertical
2480	77.14	10.41	87.55	94	-6.45	Horizontal
2480	76.71	10.41	87.12	94	-6.88	Vertical

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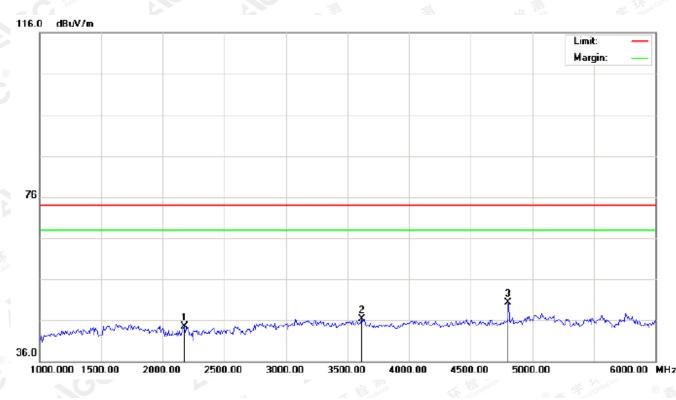
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FOR BR/EDR

(Worst modulation: 8DPSK)

For Harmonics

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



1	۷o.	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		2175.000	34.50	10.07	44.57	74.00	-29.43	peak			
	2		3616.667	33.55	12.83	46.38	74.00	-27.62	peak			
ľ	3	*	4804.000	42.71	7.69	50.40	74.00	-23.60	peak			

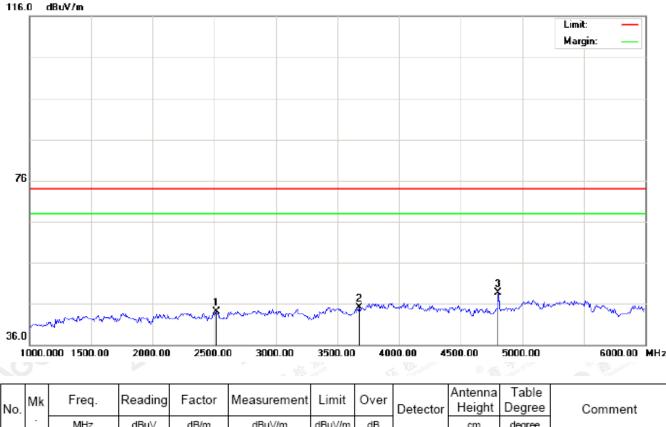
RESULT: PASS

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

MHz dBu∨ dBuV/m dB/m dBuV/m dB cm degree 1 2516.667 33.56 10.47 44.03 74.00 -29.97 peak 3675.000 2 31.91 13.19 45.10 74.00 28.90 peak 3 4804.000 7.69 48.74 74.00 41.05 25.26 peak

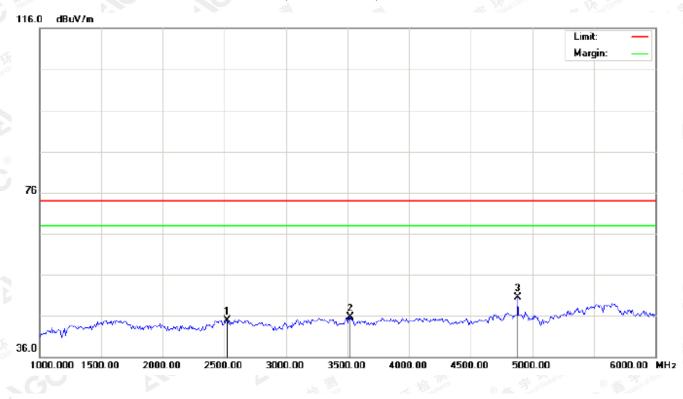
RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
4	•	MHz	dBu∨	dB/m	dBu\//m	dBuV/m	dB		cm	degree	
1		2525.000	34.45	10.49	44.94	74.00	-29.06	peak			
2		3525.000	33.36	12.26	45.62	74.00	-28.38	peak			
3	*	4882.000	42.66	7.89	50.55	74.00	-23.45	peak			

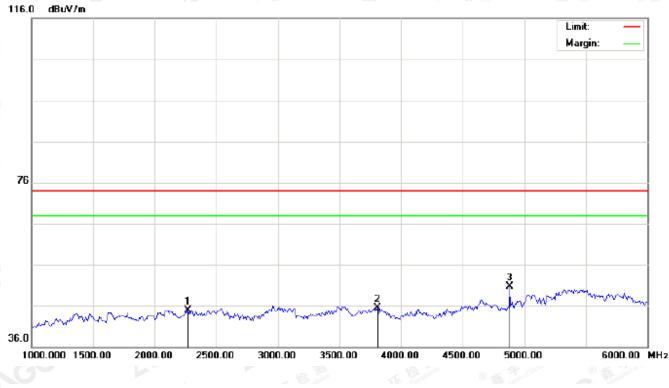
RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height		Comment
		MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2266.667	34.83	10.17	45.00	74.00	-29.00	peak			
2		3808.333	31.49	14.01	45.50	74.00	-28.50	peak			
3	*	4882.000	42.89	7.89	50.78	74.00	-23.22	peak			

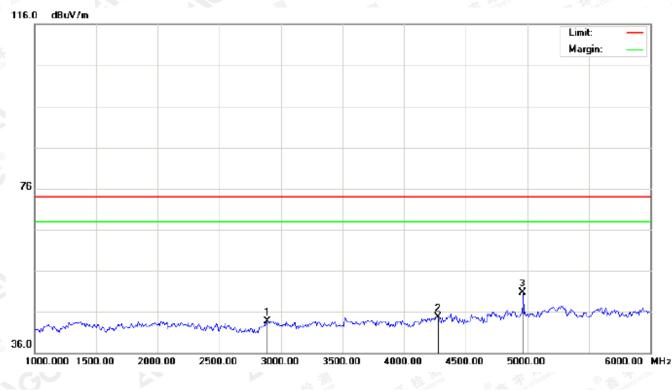
RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∨	dB/m	dBuV/m	dBuV/m	dB		cm degree		
1		2891.667	32.35	11.38	43.73	74.00	-30.27	peak			
2		4275.000	34.14	10.62	44.76	74.00	-29.24	peak			
3	*	4960.000	42.60	8.09	50.69	74.00	-23.31	peak			

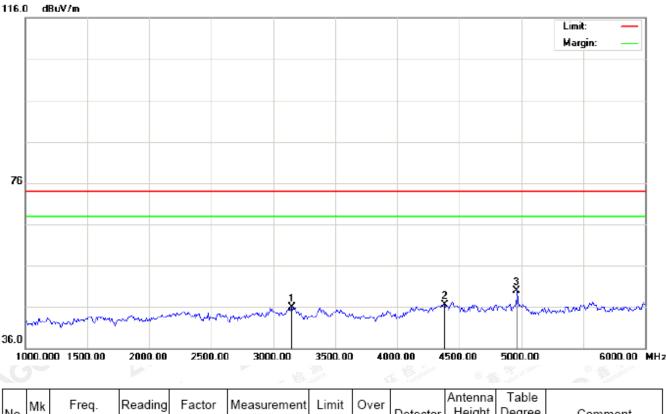
RESULT: PASS

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

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		3150.000	34.14	11.78	45.92	74.00	-28.08	peak			
2		4383.333	37.75	8.83	46.58	74.00	-27.42	peak			
3	*	4960.000	41.91	8.09	50.00	74.00	-24.00	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.

The results shown in 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.com.



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10. BAND EDGE EMISSION

10.1. MEASUREMENT PROCEDURE

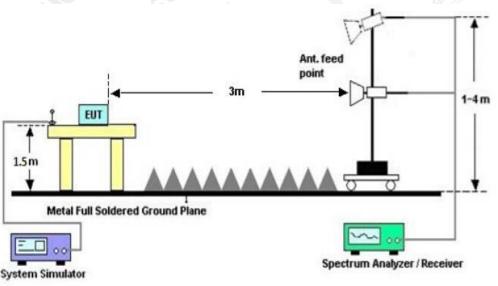
1. The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission.

Start frequency(MHz)		Stop frequency(MHz)				
2200	The the second	nos C E status	2405	SCC -		
2478	Attestation of Glou	GO	2500			

10.2 TEST SETUP



RADIATED EMISSION TEST SETUP

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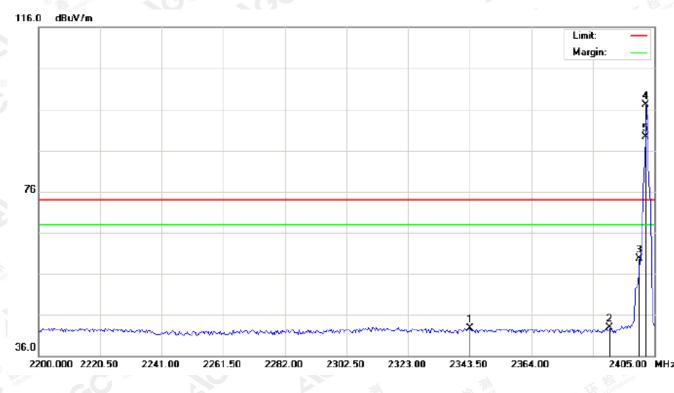
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10.3 RADIATED TEST RESULT

FOR BR/EDR

(Worst modulation: 8DPSK)

TEST PLOT OF BAND EDGE FOR LOW CHANNEL-Horizontal

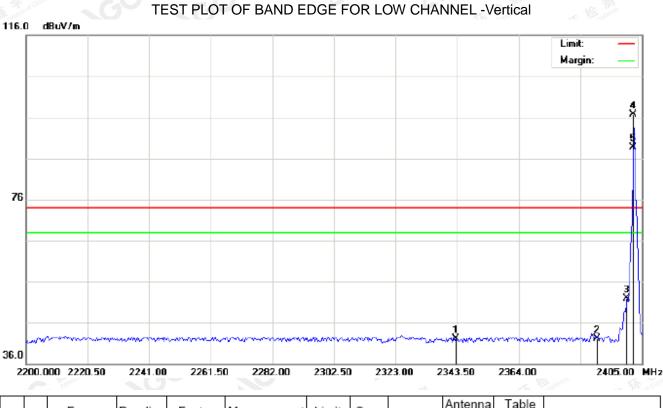


No	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2343.500	32.44	10.26	42.70	74.00	-31.30	peak			
2		2390.000	32.50	10.31	42.81	74.00	-31.19	peak			
3		2400.000	49.47	10.32	59.79	74.00	-14.21	peak			
4	*	2402.000	86.83	10.32	97.15	74.00	23.15	peak			
5	Х	2402.000	78.93	10.32	89.25	74.00	15.25	AVG	100	169	

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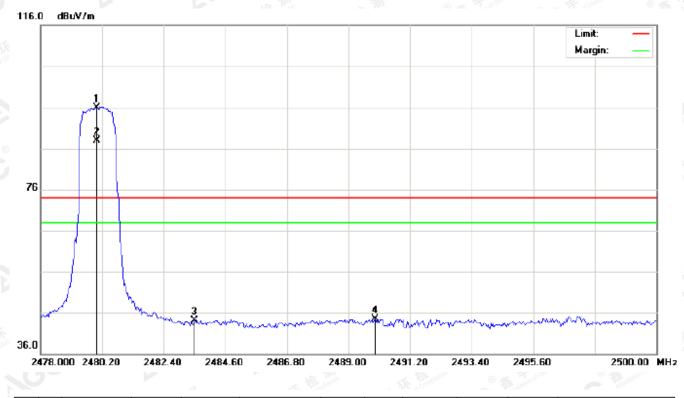
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB		cm degree	degree	
1		2343.158	31.83	10.26	42.09	74.00	-31.91	peak			
2		2390.000	31.71	10.31	42.02	74.00	-31.98	peak			
3		2400.000	41.56	10.32	51.88	74.00	-22.12	peak			
4	*	2402.000	86.43	10.32	96.75	74.00	22.75	peak			
5	Х	2402.000	78.42	10.32	88.74	74.00	14.74	AVG	100	245	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal

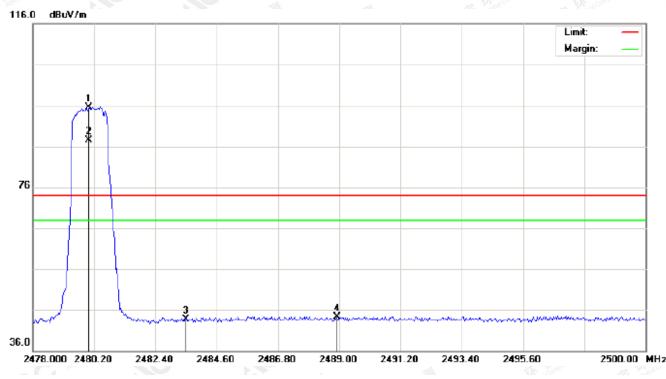
1	No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
	1	*	2480.000	85.51	10.41	95.92	74.00	21.92	peak			
	2	Х	2480.000	77.48	10.41	87.89	74.00	13.89	AVG	100	261	
	3		2483.500	33.69	10.41	44.10	74.00	-29.90	peak			
	4		2489.953	34.17	10.42	44.59	74.00	-29.41	peak			

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical

No	. Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBuV/m	dB		cm	degree	
1	*	2480.000	85.03	10.41	95.44	74.00	21.44	peak			
2	Х	2480.000	77.07	10.41	87.48	74.00	13.48	AVG	100	236	
3		2483.500	33.26	10.41	43.67	74.00	-30.33	peak			
4		2488.927	33.84	10.42	44.26	74.00	-29.74	peak			

RESULT: PASS

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

The "Factor" value can be calculated automatically by software of measurement system. Hopping on mode and Hopping off mode have been tested, but only worst case reported.

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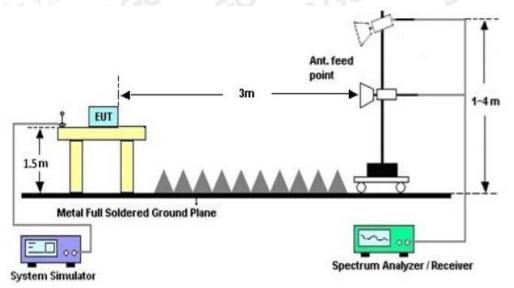
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11. 20DB BANDWIDTH

11.1. MEASUREMENT PROCEDURE

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

11.2. TEST SET-UP

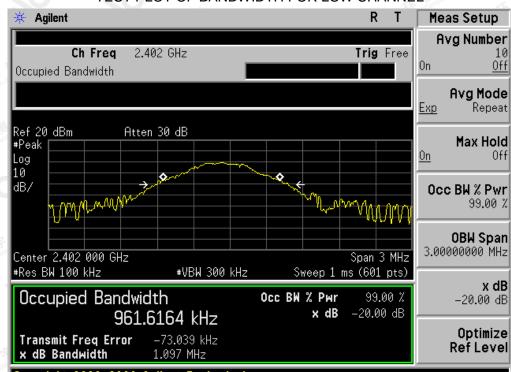


11.3. LIMITS AND MEASUREMENT RESULTS

FOR BR/EDR

BLUET	OOTH 1MBPS LIN	ITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Decult							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The Construction of Manufacture	Low Channel	0.962	1.097	PASS					
N/A	Middle Channel	0.974	1.102	PASS					
	High Channel	0.970	1.090	PASS					

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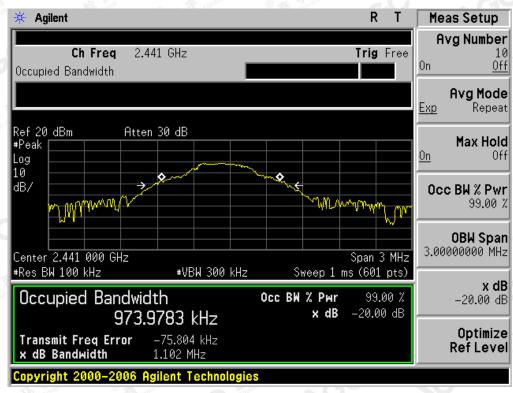


TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

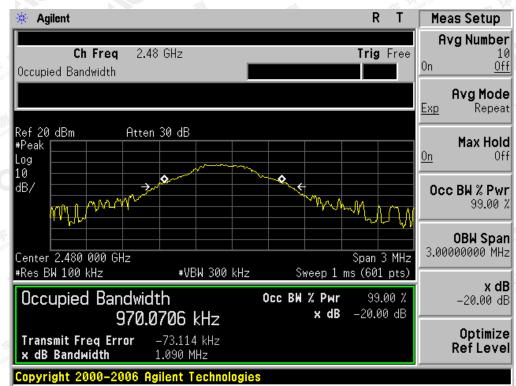
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

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BLUET	BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT										
	Measurement Result										
Applicable Limits		Dag K									
		99%OBW (MHz)	-20dB BW(MHz)	Result							
The second second	Low Channel	1.228	1.409	PASS							
N/A	Middle Channel	1.231	1.449	PASS							
SGC *	High Channel	1.229	1.420	PASS							
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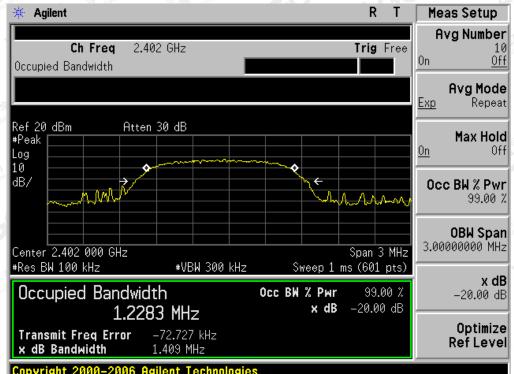
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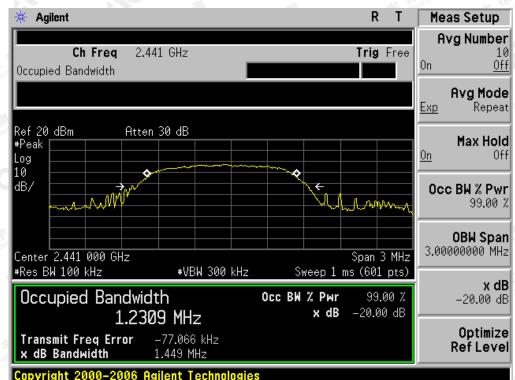
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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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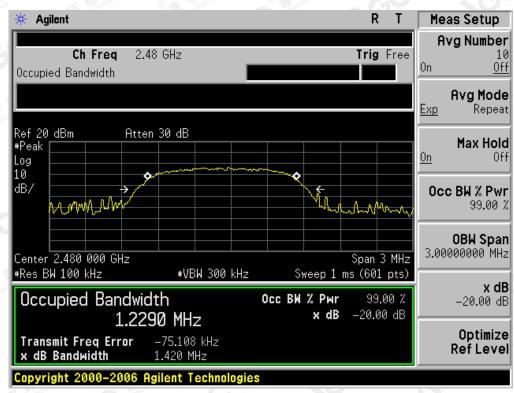




TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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Aller	Inter		- Wind Co	The Course					
BLUET	DOTH 3MBPS LIN	IITS AND MEASU	REMENT RESULT						
	Measurement Result								
Applicable Limits		Dec. If							
		99%OBW (MHz)	-20dB BW(MHz)	Result					
The Particle The Particle	Low Channel	1.232	1.409	PASS					
N/A	Middle Channel	1.236	1.398	PASS					
SGC *	High Channel	1.227	1.397	PASS					
			The Conceller	obd Contraction					

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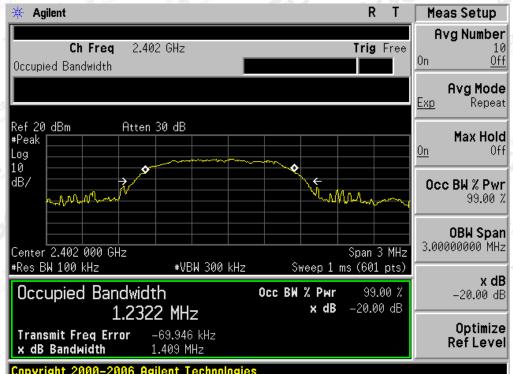
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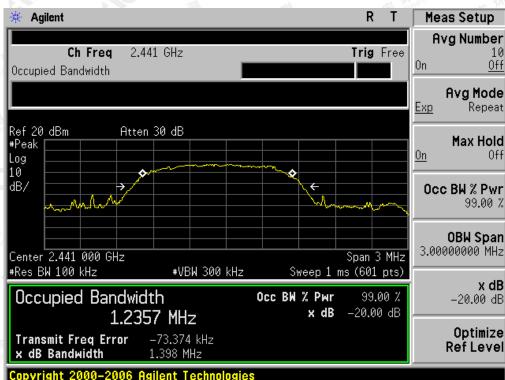
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



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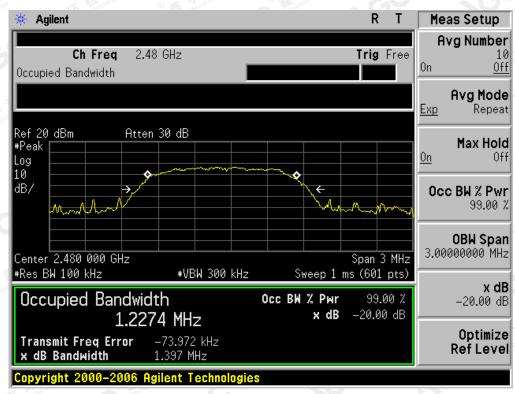
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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12. FCC LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

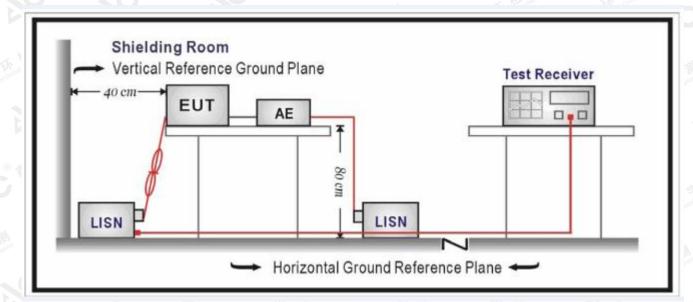
Francisco	Maximum RF Line Voltage							
Frequency	Q.P.(dBuV)	Average(dBuV)						
150kHz~500kHz	66-56	56-46						
500kHz~5MHz	56	46						
5MHz~30MHz	60	50						

Note:

1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC charging voltage by adapter or PC which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

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

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 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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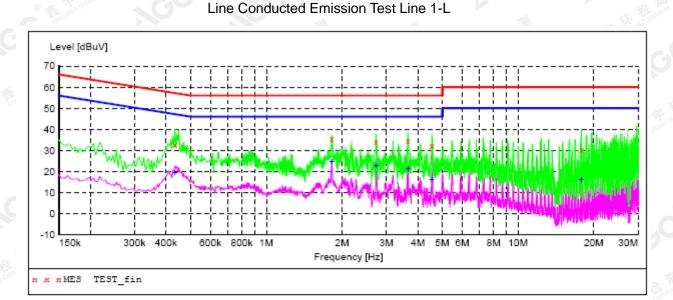
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

By adapter(worst case)

FOR BR/EDR

2



MEASUREMENT RESULT: "TEST fin"

2018/4/28 17:4	43							
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE	
0.434000 1.818000 2.730000 3.658000 4.538000 17.834000	32.90 35.40 33.90 34.50 32.30 30.10	10.1 10.2 10.0 10.1 10.2 10.4	57 56 56 56 56 60	24.3 20.6 22.1 21.5 23.7 29.9	QP QP	L1 L1 L1 L1 L1 L1	FLO FLO FLO FLO FLO FLO	

MEASUREMENT RESULT: "TEST fin2"

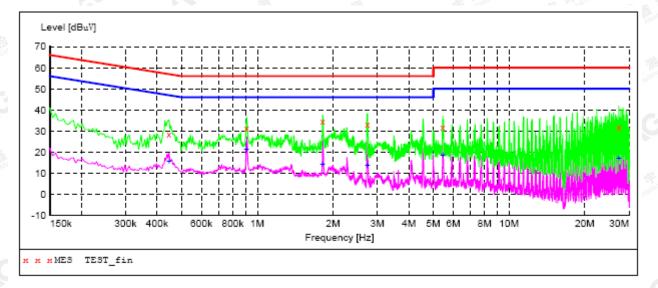
20	18/4/28 17:	44						
	Frequency MHz	Level dBuV		Limit dBuV	Margin dB	Detector	Line	PE
	0.434000	19.60	10.1	47	27.6	AV	L1	FLO
	1.818000	24.50	10.2	46	21.5	AV	L1	FLO
	2.730000	22.80	10.0	46	23.2	AV	L1	FLO
	3.654000	21.20	10.1	46	24.8	AV	L1	FLO
	4.538000	15.90	10.2	46	30.1	AV	L1	FLO
	17.814000	16.10	10.4	50	33.9	AV	L1	FLO

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Line Conducted Emission Test Line 2-N

MEASUREMENT RESULT: "TEST fin"

2018/4/28 17:39									
Frequen M	-	vel Transd BuV dB		Margin dB	Detector	Line	PE		
0.4460		.50 10.1		28.4	-	N	FLO		
0.9060 1.8180		.20 10.2 .60 10.2		24.8 21.4	-	N N	FLO FLO		
2.7420 5.4500		.10 9.9		22.9 28.2	-	N	FLO FLO		
27.2900		.80 10.3 .80 11.1		28.2	QP QP	N N	FLO		

MEASUREMENT RESULT: "TEST fin2"

2018/4/28 17 Frequency MHz		Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.446000 0.906000 1.818000 2.742000 5.454000	15.70 21.10 14.10 13.60 18.60	10.1 10.2 10.2 9.9 10.3	47 46 46 46 50	31.2 24.9 31.9 32.4 31.4	AV AV	N N N N	FLO FLO FLO FLO FLO
27.278000	16.90	11.1	50	33.1	AV	Ν	FLO

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP

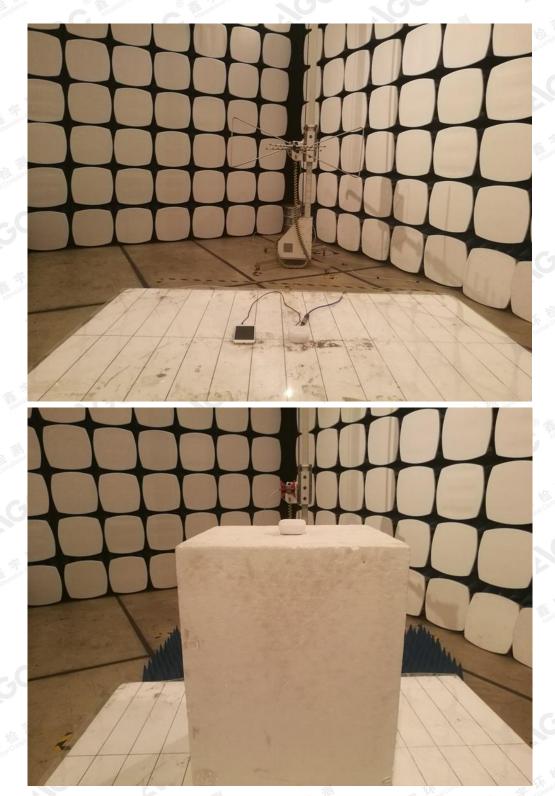


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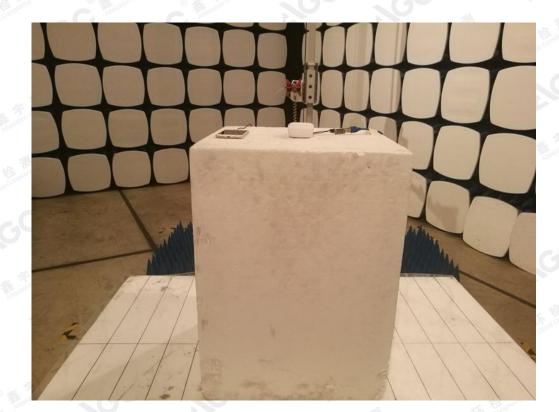


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APPENDIX B: PHOTOGRAPHS OF EUT TOP VIEW OF EUT





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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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VIEW OF EUT (PORT)



OPEN VIEW OF EUT-1 40 30 20 10 8 06 80 20 60 50 07 05 07 30 00 80 09 04 001 02 0.8 06

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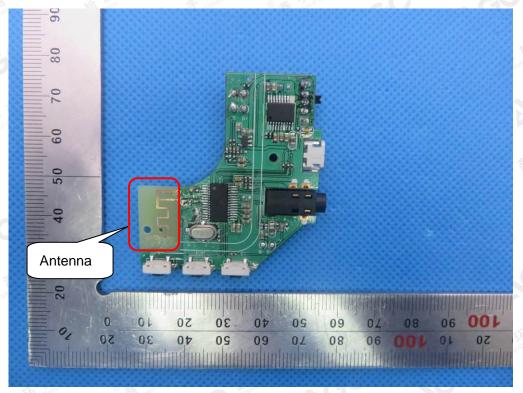


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VIEW OF BATTERY



INTERNAL VIEW OF EUT-1

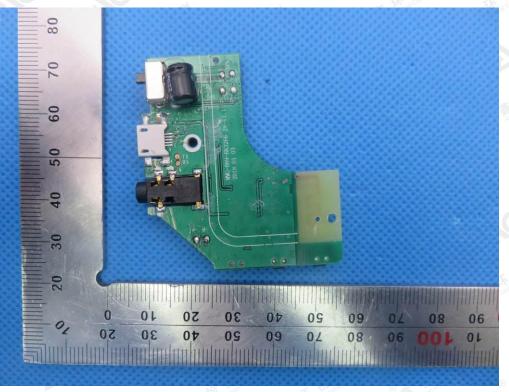


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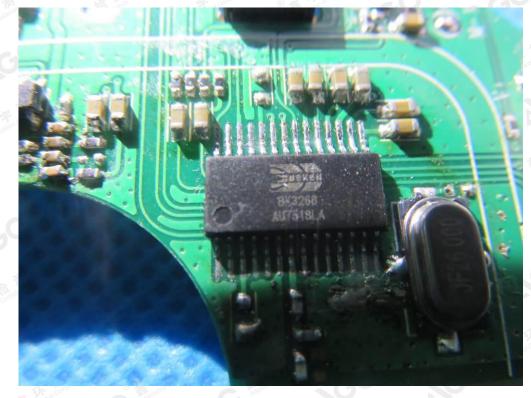


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INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



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VIEW OF ADAPTER(AE)



The adapter was supplied by AGC ----END OF REPORT----

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