

# **FCC Test Report**

Report No.: AGC00552200802FE08

FCC ID	© ;	2AHZ5NOTE20PRO
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	Smart Phone
BRAND NAME	:	CUBOT
MODEL NAME	÷	NOTE 20 PRO
APPLICANT	:	Shenzhen Huafurui Technology Co., Ltd.
DATE OF ISSUE	•	Sep. 08, 2020
STANDARD(S)	:	FCC Part 15.247
REPORT VERSION	:	V1.0

# Attestation of Global Compliance (Shenzhen) Co., Ltd



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 Attestation of Global Compliance(Shenzhen)Co., Ltd

 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



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### **REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0		Sep. 08, 2020	Valid	Initial Release

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# **1. VERIFICATION OF COMPLIANCE**

Applicant	Shenzhen Huafurui Technology Co., Ltd.	
Address	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district Shenzhen,China	
Manufacturer	Shenzhen Huafurui Technology Co., Ltd.	
Address	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district Shenzhen,China	
Factory	Shenzhen Huafurui Technology Co., Ltd.	
Address	Unit 1401 14/F, Jin qi zhi gu mansion Liu xian street ,Xili, Nan shan district Shenzhen,China	
Product Designation	Smart Phone	
Brand Name	СИВОТ	
Test Model	NOTE 20 PRO	
Date of test	Aug. 13, 2020~Sep. 08, 2020	
Deviation	No any deviation from the test method	
Condition of Test Sample	Normal	
Test Result	Pass	
Report Template	AGCRT-US-BLE/RF	

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC part 15.247.

Donjon. Huoma Prepared By Donjon Huang Sep. 08, 2020 (Project Engineer) Max Zhang **Reviewed By** Max Zhang Sep. 08, 2020 (Reviewer) Forrest in Approved By Forrest Lei Sep. 08, 2020 (Authorized Officer)

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# 2. GENERAL INFORMATION

# 2.1. PRODUCT DESCRIPTION

The EUT is designed as a "Bluetooth Module". It is designed by way of utilizing the GFSK technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz		
RF Output Power	-3.840dBm (Max)		
Bluetooth Version	V 4.2		
Modulation	BR □GFSK, EDR □π /4-DQPSK, □8DPSK BLE ⊠GFSK 1Mbps □GFSK 2Mbps		
Number of channels	40 Channel		
Antenna Designation	PIFA Antenna (Comply with requirements of the FCC part 15.203)		
Antenna Gain	0Bi		
Hardware Version	LV966_MB_V1.0		
Software Version	CUBOT_NOTE 20 PRO_A013C_V02_20200729		
Power Supply	DC 3.85V		

# 2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	
	0	2402 MHz	
	1	2404 MHz	
2400~2483.5MHz		G C C C	
	38	2478 MHz	
	39	2480 MHz	

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# 2.3. RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for FCC ID: 2AHZ5NOTE20PRO filing to comply with the FCC Part 15.247 requirements.

#### 2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

#### 2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device. For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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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 = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz,  $Uc = \pm 3.9 dB$
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB
- Uncertainty of total RF power, conducted,  $Uc = \pm 0.8 dB$
- Uncertainty of RF power density, conducted, Uc = ±2.6 dB
- Uncertainty of spurious emissions, conducted,  $Uc = \pm 2.7 dB$
- Uncertainty of Occupied Channel Bandwidth:  $Uc = \pm 2 \%$

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# 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION		
1	Low channel TX		
2	Middle channel TX		
3	High channel TX		

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. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

4. The test software is the Blue Test3 which can set the EUT into the individual test modes.

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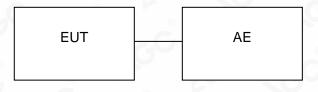
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# **5. SYSTEM TEST CONFIGURATION**

# 5.1. CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:

EUT	AE

# 5.2. EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Smart Phone	NOTE 20 PRO	FCC ID: 2AHZ5NOTE20PRO	EUT
2	Adapter	HJ-0502000W2-US	DC 5.0V 2A	AE
3	Battery	NOTE 20	DC 3.85V 4200mAh	AE
4	USB Cable	N/A	N/A	AE

#### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(3)	Peak Output Power	Compliant
15.247 (a)(2)	6 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.247 (e)	Maximum Conducted Output Power Density	Compliant
15.209	Radiated Emission	Compliant
15.207	Conducted Emission	Compliant

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# 6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd	
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China	
Designation Number	CN1259	
FCC Test Firm Registration Number	975832	
A2LA Cert. No.	5054.02	
Description	Attestation of Global Compliance (Shenzhen) Co., Ltd is accredited by A2LA	

#### **TEST EQUIPMENT OF CONDUCTED EMISSION TEST**

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Jul. 03, 2020	Jul. 02, 2021
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

# TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Filter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Aug. 24, 2020	Aug. 23, 2021
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 09, 2019	Sep. 08, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 09, 2019	Jan. 08, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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# 7. PEAK OUTPUT POWER

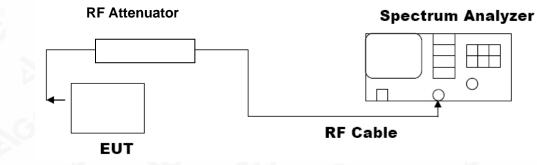
# 7.1. MEASUREMENT PROCEDURE

For peak power test:

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. RBW≥DTS bandwidth
- 3. VBW≥3\*RBW.
- 4. SPAN≥VBW.
- 5. Sweep: Auto.
- 6. Detector function: Peak.
- 7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

# 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) PEAK POWER TEST SETUP



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#### 7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEASUREMENT RESULT									
	FOR GFSK MOUDULA	TION								
Frequency (GHz)	Pass or Fail									
2.402	-5.945	30	Pass							
2.440	-3.840	30	Pass							
2.480	-7.434	30	Pass							

CH0

	RF 50 Ω AC	CORREC	SENSE:INT	ALIGN AUTO	05:39:10 PM Aug 14, 2020	Frequency
Center Fred	<u>1 2.402000000</u>	GHz PNO: Fast ↔→ IFGain:Low	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 100/100	TRACE 123456 TYPE MWWWWW DET PNNNNN	Frequency
10 dB/div R	ef 20.00 dBm			Mkr1	2.402 110 GHz -5.945 dBm	Auto Tun
10.0						Center Fre 2.402000000 GF
0.00			▲ <sup>1</sup>			<b>Start Fre</b> 2.399500000 GF
20.0 30.0						<b>Stop Fr</b> 2.404500000 G
40.0						CF Sto 500.000 k <u>Auto</u> M
60.0						Freq Offs 0
70.0	2000 GHz				Span 5.000 MHz	
Res BW 1.5		#VBW	5.0 MHz	Sweep 1	.000 ms (1001 pts)	
SG				STATU	5	

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CH39

Agilent Spectrum Analyzer - Swept SA X/ R RF 50 Ω AC	500055				
X R RF 50 Ω AC Center Freg 2.480000000	CORREC GH7	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr	05:45:24 PM Aug 14, 2020 TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast +++	Trig: Free Run	Avg Hold: 100/100	DET P N N N N	
	IFGain:Low	Atten: 30 dB			Auto Tun
			Mkr1	2.480 215 GHz	Autorun
10 dB/div Ref 20.00 dBm				-7.434 dBm	
					Center Fre
10.0					2.480000000 GH
10.0					2.480000000 GH
0.00					
0.00		1			Start Fre
-10.0					2.477500000 GH
-10.0					
~~~					
-20.0					Stop Fre
					2.482500000 GH
-30.0					
					CF Ste
-40.0					500.000 kH
					<u>Auto</u> Ma
-50.0					
					Freq Offse
-60.0					он
-70.0					
Center 2.480000 GHz				Span 5.000 MHz	
#Res BW 1.5 MHz	#VBW	5.0 MHz	Sweep 1	.000 ms (1001 pts)	
MSG			STATU		
			STATU		

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# 8.6 DB BANDWIDTH

#### 8.1. 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 SPA Centre Frequency = Operation Frequency, RBW= 100 kHz, VBW≥3×RBW.
- 4. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

#### **8.3. LIMITS AND MEASUREMENT RESULTS**

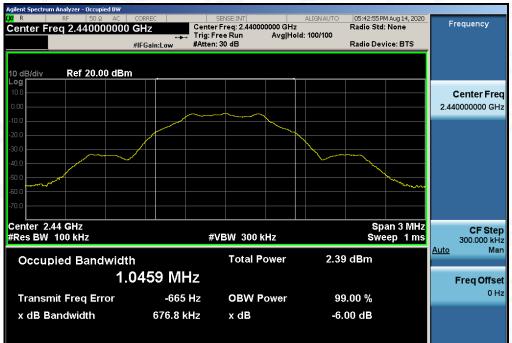
LIMITS AND MEASUREMENT RESULT							
Applicable Limite		Applicable Limits					
Applicable Limits	Test Data	(kHz)	Criteria				
S S	Low Channel	676.6	PASS				
>500KHZ	Middle Channel	676.8	PASS				
	High Channel	685.2	PASS				



## 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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# 9. CONDUCTED SPURIOUS EMISSION

#### 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 SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to ANSI C63.10 for compliance to FCC PART 15.247 requirements.

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

The same as described in section 7.2.

#### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

#### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT								
	Measurement Result							
Applicable Limits	Test Data	Criteria						
In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.	At least -20dBc than the reference level	PASS						

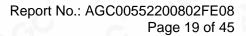
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### TEST RESULT FOR ENTIRE FREQUENCY RANGE GFSK MODULATION IN LOW CHANNEL

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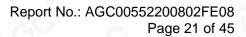
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



ilent Spectrum Analyzer - Swep R RF 50 9 enter Freq 2.4400	00000 GHz PNO: Wide	SENSE:INT	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10	05:43:47 PM Aug 14, 2020 TRACE 1 2 3 4 5 6 TYPE MWWWWW DET P N N N N N	Frequency
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Int Spectrum Analyzer - Swep R R 50 g enter Freq 1.2150	AC CORREC  OQUOOD CHZ  PN0: Fast IFGain:Low  CHE	Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr1	05:43:57PM Aug 14, 2020 TRACE 12:3:4:5 6 TYPE MANNINN DET PINNINN 1.897 86 GHz -39.547 dBm	Auto Tur Center Fre 1.21500000 GH Start Fre 30.000000 MH Stop Fre 2.40000000 GH CF Ste 237.00000 MH
0       Image: Constraint of the sector of the	AC CORREC  OQUOOD CHZ  PN0: Fast IFGain:Low  CHE	Trig: Free Run Atten: 30 dB	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 10/10 MKr1	05:43:57 PM Aug 14, 2020 TRACE 12:33 4 5 6 TVPE 12:33 4 5 6 TVPE 12:34 5 7 MANNANA 1.897 86 GHz -39.547 dBm -24.53 dbm -24.53 dbm -24.53 dbm -24.53 dbm -24.53 dbm	Auto Tur Center Fre 1.215000000 GH Start Fre 30.000000 MH Stop Fre 2.400000000 GH 2.400000000 GH 2.400000000 MH Auto MH Auto MH
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#### GFSK MODULATION IN MIDDLE CHANNEL

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Agilent Spectrum Ana								
LXI R RI		CORREC	SENSE:INT	0	ALIGN AUTO	05:44:22 PM Aug 14, 3		Frequency
Center Freq	13.74175000	00 GHz PN0: Fast ↔	. Trig: Free Run	Avg Ty Avg Hol	be:Log-Pwr d:10/10	TRACE 123 TYPE M	456	
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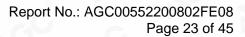
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



gilent Spectrum Analyzer - Swep R RF 50 S	t SA 2 AC CORREC	SENSE:INT	ALIGNAUTO	05:46:27 PM Aug 14, 2020	
enter Freq 2.4800	00000 GHz PNO: Wide ++	Trig: Free Run Atten: 30 dB	Avg Type: Log-Pwr Avg Hold: 10/10	TRACE 123456 TYPE MWWWWW DET P N N N N N	Frequency
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IKR MODE TRC SCL	× 2.216 63 GHz	Y F -56.767 dBm	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	
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6 6 7 8 9					
10				 ▼	

#### GFSK MODULATION IN HIGH CHANNEL

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	Spectrum		zer - Swept										
<mark>⊯</mark> R Ceni	ter Fr	<sub>RF</sub>	50 Ω 13.7500	00000 G				ALIGN Type: Log Hold: 10/10		TRAC	1 Aug 14, 2020 E 1 2 3 4 5 E M 4 4 4 5	5	Frequency
				IFO	NO: Fast Gain:Low	Atten: 3	Avgi	·		DI 1 24.79	5 2 GHz		Auto Tune
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-20.0 -30.0 -40.0											-28.14 dBn		<b>Start Freq</b> 2.500000000 GHz
-50.0 -60.0 -70.0													<b>Stop Freq</b> 25.00000000 GHz
#Re	t 2.50 5 BW	100	kHz	×	#VB	SW 300 kHz	JNCTION	SW		2.152 s (3	5.00 GHz 0000 pts		<b>CF Step</b> 2.25000000 GHz <u>Auto</u> Man
1 2 3 4 5 6 7 8 9 10 11	N 1	f		24.795	2 GHz	-48.527 d							Freq Offset 0 Hz
MSG									STATUS				

Note: The peak emissions without marker on the above plots are fundamental wave and need not to compare with the limit.

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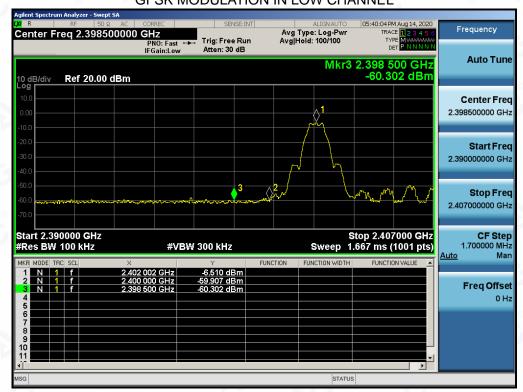
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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

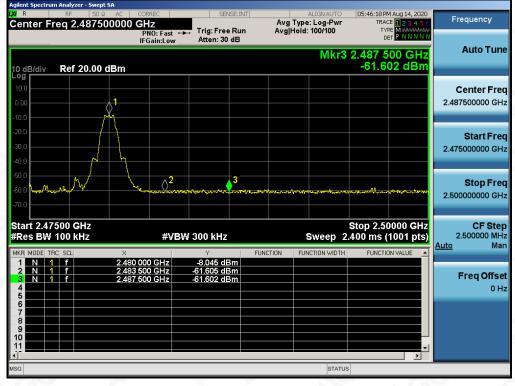
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# TEST RESULT FOR BAND EDGE GFSK MODULATION IN LOW CHANNEL

# GFSK MODULATION IN HIGH CHANNEL



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# **10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY**

#### **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 SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

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

Refer to Section 7.2.

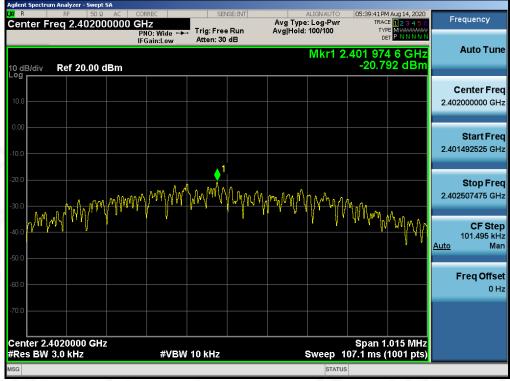
#### **10.3. MEASUREMENT EQUIPMENT USED**

Refer to Section 6.

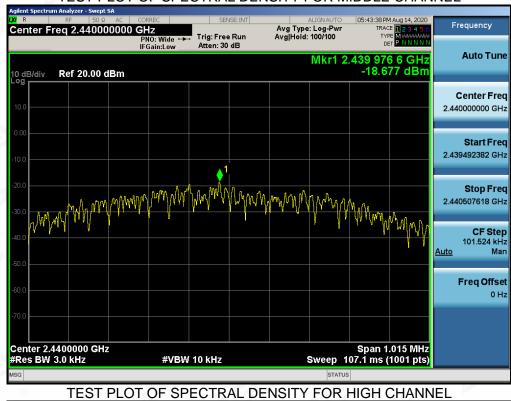
#### **10.4. LIMITS AND MEASUREMENT RESULT**

Channel No.	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	-20.792	8	Pass
Middle Channel	-18.677	8	Pass
High Channel	-22.294	8	Pass

# TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



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#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



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# **11. RADIATED EMISSION**

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

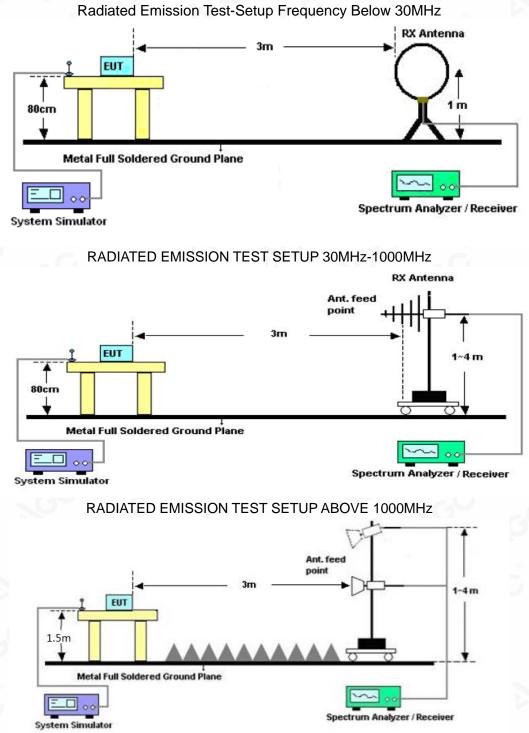
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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Report No.: AGC00552200802FE08 Page 28 of 45

#### 11.2. TEST SETUP



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# **11.3. LIMITS AND MEASUREMENT RESULT**

15.209 Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

# 11.4. TEST RESULT

# **RADIATED EMISSION BELOW 30MHz**

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

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#### Report No.: AGC00552200802FE08 Page 30 of 45

			RADIAI	ED EN1001014	DELOTITO					
EUT		Sma	rt Phone		Model Na	ime	NOTE 20	) PRO		
Tempe	erature	25°	С	8	Relative I	Relative Humidity		55.4%		
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	[III]         70           Generation         60           Solution         50									
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	*	QP Detector								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	36.7900	25.61	11.16	40.00	14.39	100	21	Horizontal		
2	48.4300	27.29	11.71	40.00	12.71	100	177	Horizontal		
3	52.3100	27.37	11.49	40.00	12.63	100	1	Horizontal		
4	175.5000	29.37	13.43	43.50	14.13	100	358	Horizontal		
5	379.2000	28.86	19.00	46.00	17.14	100	360	Horizontal		

#### **RADIATED EMISSION BELOW 1GHZ**

#### **RESULT: PASS**

809.8800

34.38

28.63

6

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46.00

11.62

100

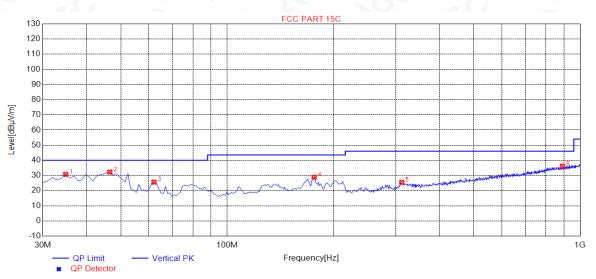
257

Horizontal



#### Report No.: AGC00552200802FE08 Page 31 of 45

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8500	30.71	10.70	40.00	9.29	100	359	Vertical
2	46.4900	32.23	11.77	40.00	7.77	100	273	Vertical
3	62.0100	25.61	10.58	40.00	14.39	100	353	Vertical
4	176.4700	28.83	13.34	43.50	14.67	100	100	Vertical
5	312.2700	25.40	16.37	46.00	20.60	100	0	Vertical
6	891.3600	36.12	30.00	46.00	9.88	100	2	Vertical

#### RESULT: PASS Note:

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

2. All test modes had been tested. The mode 1 is the worst case and recorded in the report.

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# Report No.: AGC00552200802FE08 Page 32 of 45

### **RADIATED EMISSION ABOVE 1GHZ**

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	43.59	0.08	43.67	74	-30.33	peak
4804.000	35.27	0.08	35.35	54	-18.65	AVG
7206.000	38.46	2.21	40.67	74	-33.33	peak
7206.000	31.22	2.21	33.43	54	-20.57	AVG
<u> </u>		8			- 6	8
emark:		G	8			a.C.
actor = Anter	na Factor + Cable	e Loss – Pre-	-amplifier.			0

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical

Frequency (MHz)	Meter Reading	Factor	Emission Level	Limits		
(MHz)				Linns	Margin	
()	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.000	44.28	0.08	44.36	74	-29.64	peak
4804.000	34.61	0.08	34.69	54	-19.31	AVG
7206.000	38.45	2.21	40.66	74	-33.34	peak
7206.000	30.12	2.21	32.33	54	-21.67	AVG
		<u> </u>			9	G
8		~ 62				
emark:			6.0		8	

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

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# Report No.: AGC00552200802FE08 Page 33 of 45

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal

(dBµV)	(dB)				
	(uD)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
44.23	0.14	44.37	74	-29.63	peak
35.48	0.14	35.62	54	-18.38	AVG
39.11	2.36	41.47	74	-32.53	peak
31.26	2.36	33.62	54	-20.38	AVG
		G C	0		
	8		200		8
	<u>39.11</u> 31.26	39.11         2.36           31.26         2.36	39.11 2.36 41.47	39.11         2.36         41.47         74           31.26         2.36         33.62         54	39.11         2.36         41.47         74         -32.53           31.26         2.36         33.62         54         -20.38

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.000	46.91	0.14	47.05	74	-26.95	peak
4880.000	38.45	0.14	38.59	54	-15.41	AVG
7320.000	40.24	2.36	42.6	74	-31.4	peak
7320.000	32.76	2.36	35.12	54	-18.88	AVG
8		100				

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

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#### Report No.: AGC00552200802FE08 Page 34 of 45

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tree
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.000	44.62	0.22	44.84	74	-29.16	peak
4960.000	35.91	0.22	36.13	54	-17.87	AVG
7440.000	38.12	2.64	40.76	74	-33.24	peak
7440.000	29.15	2.64	31.79	54	-22.21	AVG
3			G	3	©	
emark:	- 6	6			- 6	0
ctor = Anter	na Factor + Cable	Loss – Pre-	amplifier.			

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4960.000	42.56	0.22	42.78	74	-31.22	peak	
4960.000	34.63	0.22	34.85	54	-19.15	AVG	
7440.000	38.44	2.64	41.08	74	-32.92	peak	
7440.000	29.57	2.64	32.21	54	-21.79	AVG	
mark:	200	200				0	

# **RESULT: PASS**

#### Note:

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

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

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

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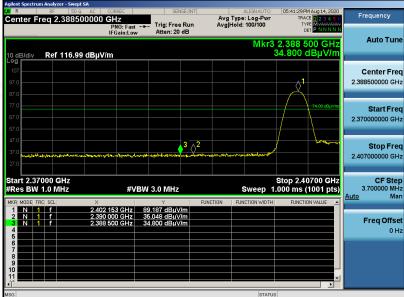


Report No.: AGC00552200802FE08 Page 35 of 45

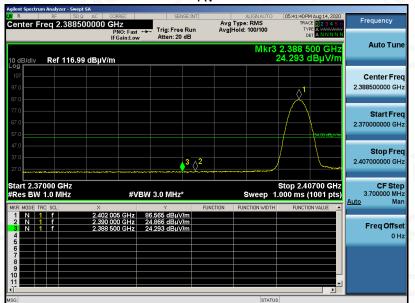
EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Horizontal

#### **FEST RESULT FOR RESTRICTED BANDS REQUIREMENTS**

PK



AV



**RESULT: PASS** 

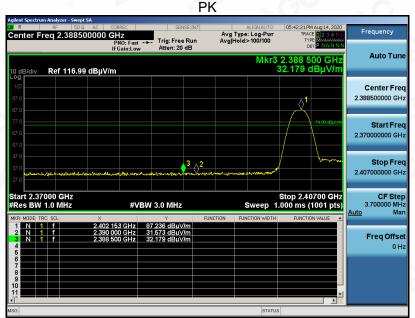
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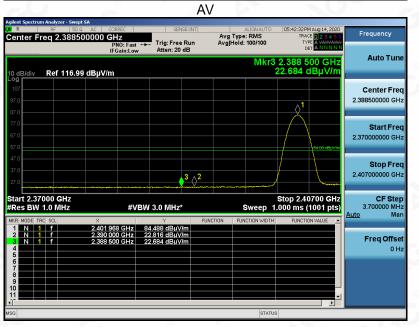
Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/



#### Report No.: AGC00552200802FE08 Page 36 of 45

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 1	Antenna	Vertical
	DI		





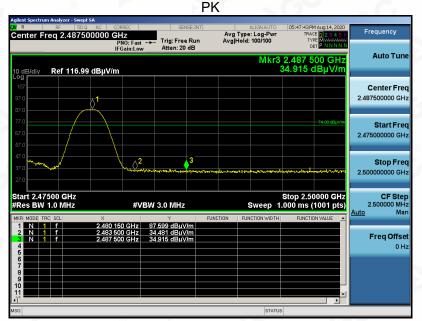
**RESULT: PASS** 

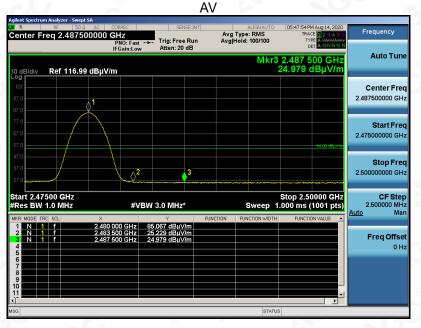
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#### Report No.: AGC00552200802FE08 Page 37 of 45

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Horizontal





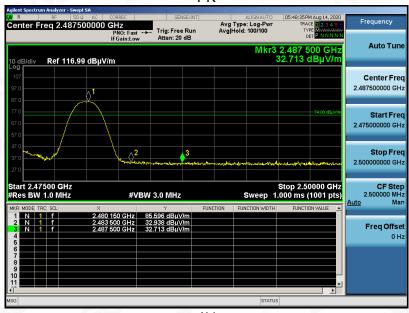
**RESULT: PASS** 

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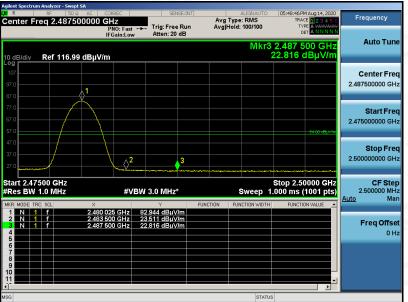


#### Report No.: AGC00552200802FE08 Page 38 of 45

EUT	Smart Phone	Model Name	NOTE 20 PRO
Temperature	25° C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 3	Antenna	Vertical
		PK	







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

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

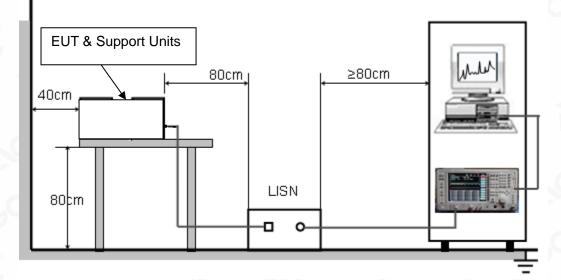
# **12.1. LIMITS OF LINE CONDUCTED EMISSION TEST**

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

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

# 12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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# 12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 3.85V power from control board which received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

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

#### 12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

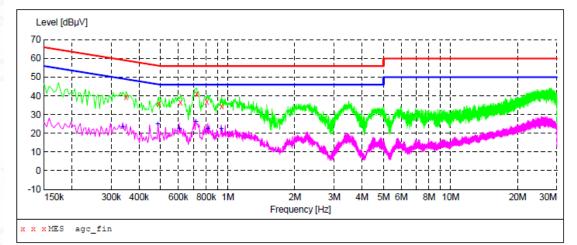
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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

Line Conducted Emission Test Line 1-L



#### MEASUREMENT RESULT: "agc\_fin"

2020/8/14 10:	32					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.350000	39.20	9.3	59	19.8	QP	L1
0.490000	35.70	9.3	56	20.5	QP	ь1
0.614000	36.30	9.3	56	19.7	QP	ь1
0.726000	40.90	9.3	56	15.1	QP	ь1
0.806000	36.90	9.3	56	19.1	QP	ь1
0.938000	34.30	9.3	56	21.7	QP	ь1

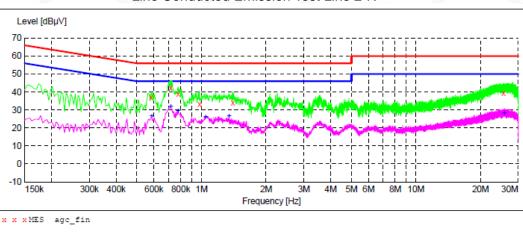
#### MEASUREMENT RESULT: "agc fin2"

2020/8/14 1	0:32					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.338000 0.486000 0.606000 0.718000 0.814000	23.00 24.70 22.40 26.30 22.60	9.3 9.3 9.3 9.3 9.3	49 46 46 46	26.3 21.5 23.6 19.7 23.4	AV AV AV	L1 L1 L1 L1 L1
0.934000	22.80	9.3	46	23.4		L1

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Line Conducted Emission Test Line 2-N

#### MEASUREMENT RESULT: "agc\_fin"

2020/8/14 10:27

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.582000	36.70	9.3	56	19.3	QP	N
0.718000	42.50	9.3	56	13.5	QP	N
0.778000	38.90	9.3	56	17.1	QP	N
0.978000	33.30	9.3	56	22.7	QP	N
1.398000	34.10	9.3	56	21.9	QP	N
25.650000	39.50	11.6	60	20.5	QP	N

#### MEASUREMENT RESULT: "agc fin2"

2020/8/14 10:	27					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.586000	26.70	9.3	46	19.3	AV	N
0.718000	32.00	9.3	46	14.0	AV	Ν
0.778000	29.60	9.3	46	16.4	AV	Ν
1.046000	26.30	9.3	46	19.7	AV	Ν
1.342000	26.40	9.3	46	19.6	AV	Ν
25.782000	28.20	11.6	50	21.8	AV	N

#### **RESULT: PASS**

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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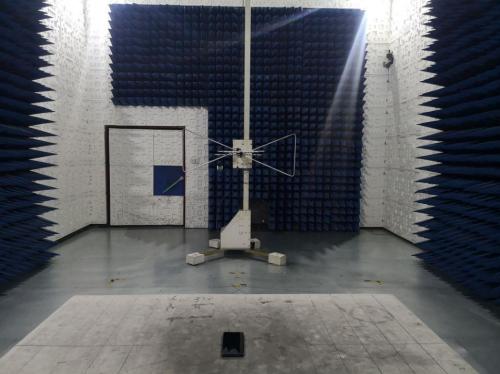
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# APPENDIX A: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP BELOW 1GHZ



RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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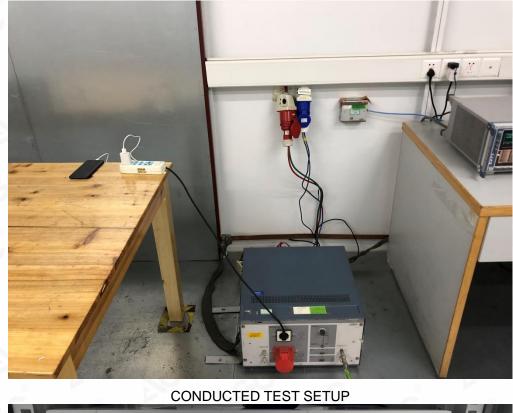
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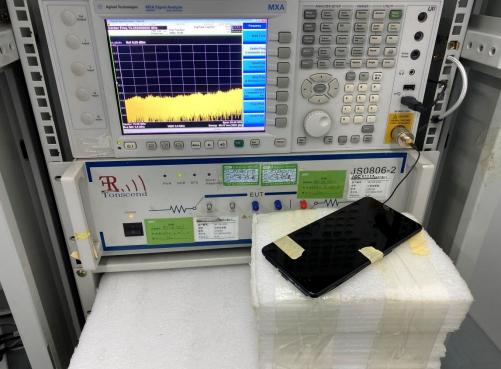
 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



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CONDUCTED EMISSION TEST SETUP



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 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com



Report No.: AGC00552200802FE08 Page 45 of 45

**APPENDIX B: PHOTOGRAPHS OF EUT** 

----END OF REPORT----

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 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agc-cert.com

Web: http://cn.agc-cert.com/



#### Conditions of Issuance of Test Reports

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

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

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

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

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

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

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

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

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

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

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

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