

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch EMC-ARF-05 Rev 1.1 Page: 1 of 30 FCC ID: OJFDMRUG2678

# Appendix -

# Test Data and Result for report

# GZCR230600056705

(For ESMR Band DL)



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#### 1 Out-of-band rejection



935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.



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#### 2 Input versus Output comparison

Occupied Bandwidth							
Test Path	Test Signal	Test Channel	Signal Level	Verdict			
DL	4.1MHz	МСН	Pre-AGC	PASS			
	AWGN	WCIT	3dB above AGC	PASS			
	100MHz	МСЦ	Pre-AGC	PASS*			
	AWGN	3dB above AGC		PASS*			
		MCH	Pre-AGC	PASS			
	GSM		3dB above AGC	PASS			

Remark:

1. \* The band supports maximum channel BW is 5MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN was as stimulus signal.

2. Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.



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#### 3 Mean output power and amplifier/booster gain

Mean output power and gain										
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	SISO ERP (W)	Total ERP (W)	Gain (dB)		
DL		4.1MHz AWGN 100MHz AWGN	Pre-AGC	23.00	36.45	26.92	107.65	13.45		
			3dB above AGC	26.00	36.67	28.32	113.25	/		
			Pre-AGC	18.00	26.81	2.93	11.70	12.81		
	867.8		3dB above AGC	21.00	27.26	3.25	12.98	/		
		GSM	Pre-AGC	23.00	36.84	29.45	117.77	13.84		
			3dB above AGC	26.00	36.43	26.80	107.16	/		

Remark:

1. f0 is from Out-of-band Rejection test in the report.

2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 10dBi declared by the manufacturer, the directional gain =  $G_{ANT}$  + 10 log (N<sub>ANT</sub>) dBi = 13dBi.

3. The output power is limited to an ERP of 1000W and the total ERP does not exceed the limit.

4. The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.



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Out-of-band/out-of-block(including intermodulation) emissions								
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict	
			One signal	Pre-AGC	-29.35		PASS	
			input	3dB above AGC	-29.70	- ≤-16 -	PASS	
			Two signals	Pre-AGC	-30.76		PASS	
		4.1MHz	input	3dB above AGC	-27.89		PASS	
DL		AWGN	GN One signal input	Pre-AGC	-24.29		PASS	
				3dB above AGC	-26.57		PASS	
нсн	нсн		Two signals input	Pre-AGC	-29.52		PASS	
				3dB above AGC	-29.26		PASS	
			One signal	Pre-AGC	-24.29	≤-16	PASS	
			input	3dB above AGC	-24.13		PASS	
	LCH		Two signals input	Pre-AGC	-26.06		PASS	
DL		100MHz		3dB above AGC	-25.50		PASS	
		AWGN	One signal input	Pre-AGC	-24.05		PASS	
				3dB above AGC	-24.76		PASS	
	псп		Two signals	Pre-AGC	-25.83		PASS	
		input	3dB above AGC	-24.95		PASS		

#### 4 Out-of-band/out-of-block(including intermodulation) emissions

Remark:

1. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least 43 + 10log10 (P) dB, here,

P = 36dBm = 3.98W

the limit = 36dBm - [43 + 10 log10 (3.98W)] dB = -13dBm

2. For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.



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Out-of-band/out-of-block(including intermodulation) emissions									
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict		
DL -		GSM	One signal input	Pre-AGC	-34.22	≤-16	PASS		
				3dB above AGC	-34.69		PASS		
	LUH		Two signals input	Pre-AGC	-36.54		PASS		
				3dB above AGC	-37.59		PASS		
			One signal input	Pre-AGC	-34.22		PASS		
				3dB above AGC	-34.76		PASS		
	псп		Two signals input	Pre-AGC	-34.46		PASS		
				3dB above AGC	-35.07		PASS		

Remark:

1. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10\log 10$  (P) dB, here,

P = 36dBm = 3.98W

the limit = 36dBm - [43 + 10 log10 (3.98W)] dB = -13dBm

2. For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.



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#### **5 Conducted Spurious emissions**



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3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.

4. All modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signal/ with 100MHz AWGN signal) had been tested, only show the worst-case in this report.



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#### **6 Frequency Stability**

Frequency stability vs voltage									
Test path	Test Freq. (MHz)	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict		
DL	865.5	4.1MHz AWGN	TN	VL	24	0.0277	PASS		
			TN	VH	13	0.0150	PASS		
		100MHz AWGN	TN	VL	25	0.0289	PASS		
			TN	VH	25	0.0289	PASS		
		GSM	TN	VL	21	0.0243	PASS		
			TN	VH	13	0.0150	PASS		



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Frequency stability vs temperature									
Test Path	Test Freq. (MHz)	Test Signal	Voltage	Temperature (℃)	Freq. error (Hz)	Tolerance (ppm)	Verdict		
			VN	+50	20	0.0231	PASS		
			VN	+40	11	0.0127	PASS		
			VN	+30	11	0.0127	PASS		
			VN	+20	19	0.0220	PASS		
	865.5	4.1MHz AWGN	VN	+10	25	0.0289	PASS		
			VN	0	14	0.0162	PASS		
			VN	-10	18	0.0208	PASS		
			VN	-20	23	0.0266	PASS		
			VN	-30	14	0.0162	PASS		
			VN	+50	11	0.0127	PASS		
	865.5	100MHz AWGN	VN	+40	15	0.0173	PASS		
			VN	+30	11	0.0127	PASS		
			VN	+20	11	0.0127	PASS		
DL			VN	+10	24	0.0277	PASS		
			VN	0	20	0.0231	PASS		
			VN	-10	10	0.0116	PASS		
			VN	-20	9	0.0104	PASS		
			VN	-30	22	0.0254	PASS		
			VN	+50	22	0.0254	PASS		
			VN	+40	17	0.0196	PASS		
			VN	+30	19	0.0220	PASS		
			VN	+20	14	0.0162	PASS		
	865.5	GSM	VN	+10	11	0.0127	PASS		
			VN	0	17	0.0196	PASS		
			VN	-10	23	0.0266	PASS		
			VN	-20	23	0.0266	PASS		
			VN	-30	14	0.0162	PASS		



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#### 7 Radiated Spurious emissions



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Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals), the test result always keeps more than 20dB margin, the spurious emissions 9kHz to 30MHz were very low and not displayed in this report. Therefore, only show the worst-case in this report.

--End of Appendix--



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