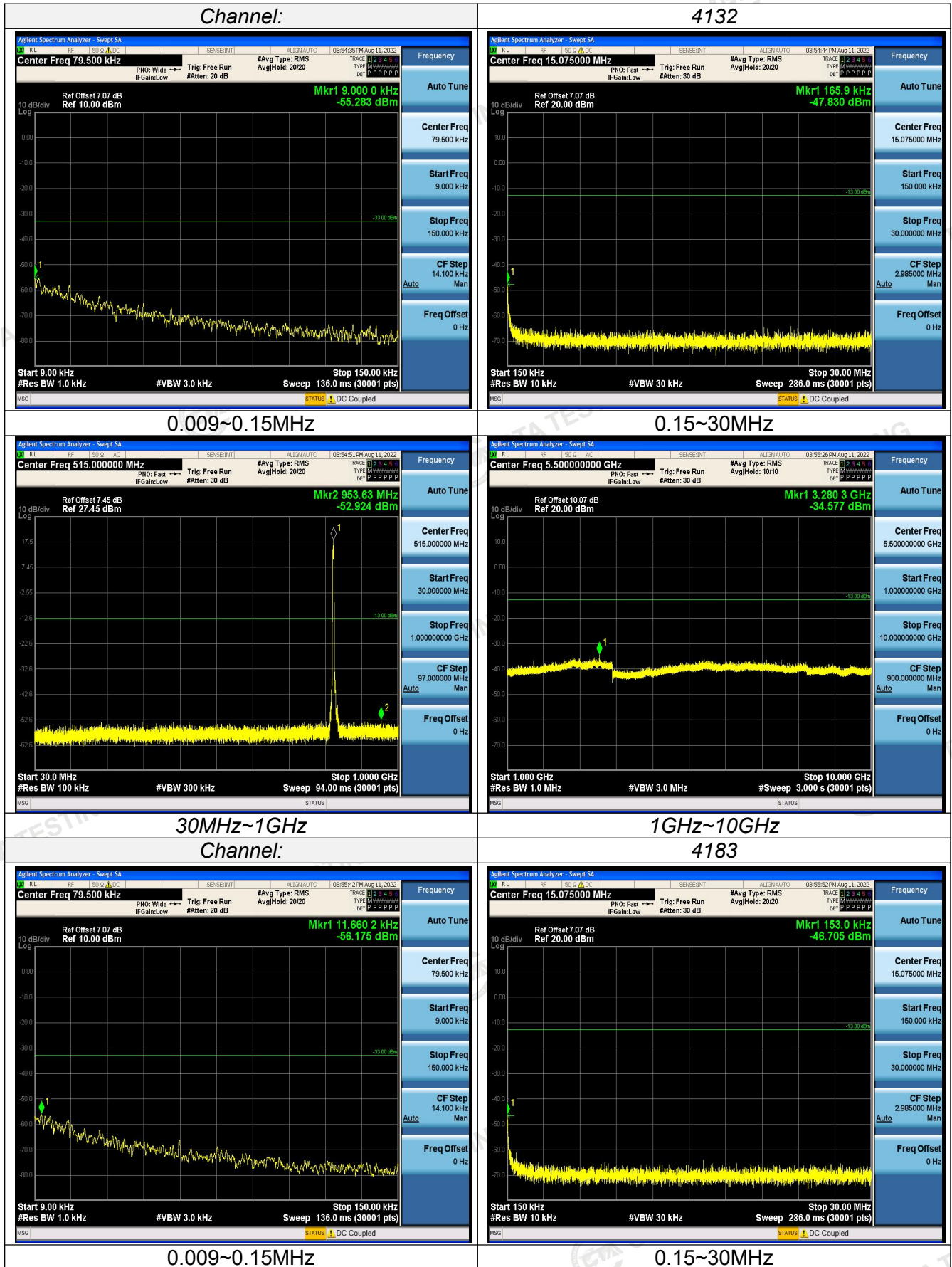
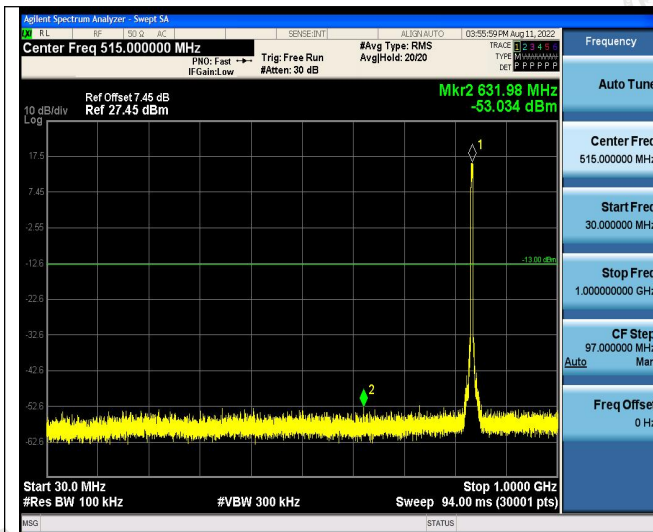


WCDMA Band V





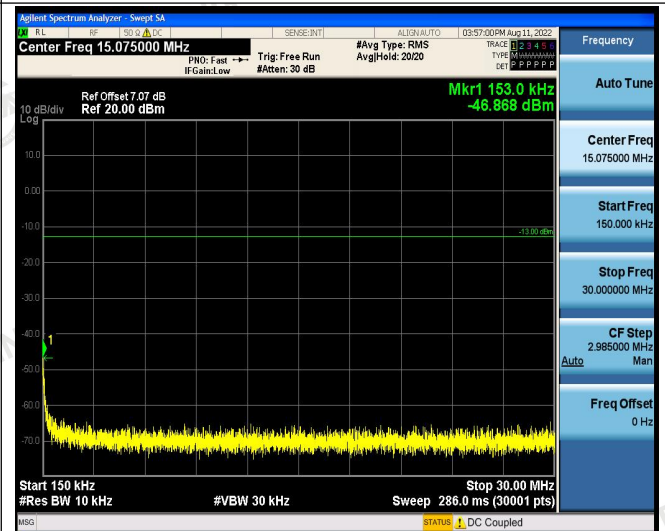
30MHz~1GHz
Channel:



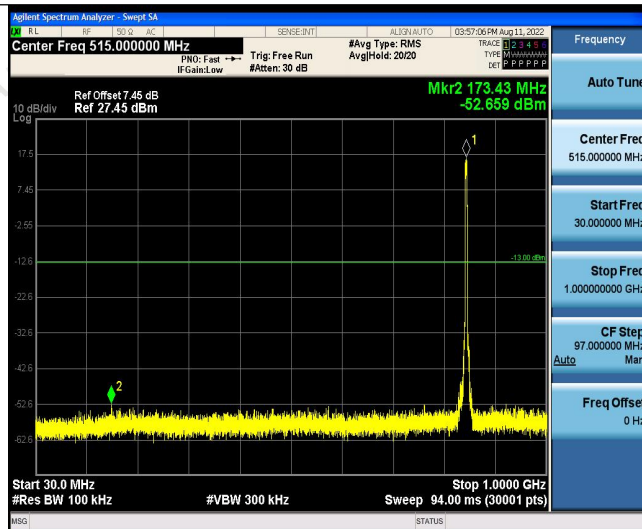
1GHz~10GHz
4233



0.009~0.15MHz



0.15~30MHz



30MHz~1GHz



1GHz~10GHz

Radiated Measurement:**WCDMA Band II**

Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
9262	3704.80	-39.88	4.27	3.00	12.34	-31.81	-13.00	18.81	H
	5557.20	-43.00	4.99	3.00	13.52	-34.47	-13.00	21.47	H
	3704.80	-37.77	4.27	3.00	12.34	-29.70	-13.00	16.70	V
	5557.20	-41.98	4.99	3.00	13.52	-33.45	-13.00	20.45	V
9400	3760.00	-39.35	4.38	3.00	12.34	-31.39	-13.00	18.39	H
	5640.00	-42.36	5.01	3.00	13.58	-33.79	-13.00	20.79	H
	3760.00	-36.78	4.38	3.00	12.34	-28.82	-13.00	15.82	V
	5640.00	-41.62	5.01	3.00	13.58	-33.05	-13.00	20.05	V
9538	3815.20	-38.68	4.47	3.00	12.45	-30.70	-13.00	17.70	H
	5722.80	-42.42	5.23	3.00	13.66	-33.99	-13.00	20.99	H
	3815.20	-35.98	4.47	3.00	12.45	-28.00	-13.00	15.00	V
	5722.80	-39.34	5.23	3.00	13.66	-30.91	-13.00	17.91	V

WCDMA Band V

Channel	Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
9262	1652.80	-36.34	3.02	3.00	9.58	-29.78	-13.00	16.78	H
	2479.20	-39.93	3.51	3.00	10.72	-32.72	-13.00	19.72	H
	1652.80	-35.37	3.02	3.00	9.68	-28.71	-13.00	15.71	V
	2479.20	-39.64	3.51	3.00	10.72	-32.43	-13.00	19.43	V
9400	1673.20	-35.67	3.14	3.00	9.61	-29.20	-13.00	16.20	H
	2509.80	-41.62	3.59	3.00	10.77	-34.44	-13.00	21.44	H
	1673.20	-34.12	3.14	3.00	9.61	-27.65	-13.00	14.65	V
	2509.80	-39.20	3.59	3.00	10.77	-32.02	-13.00	19.02	V
9538	1693.20	-35.24	3.24	3.00	9.77	-28.71	-13.00	15.71	H
	2539.80	-39.04	3.65	3.00	10.89	-31.80	-13.00	18.80	H
	1693.20	-34.00	3.24	3.00	9.77	-27.47	-13.00	14.47	V
	2539.80	-36.92	3.65	3.00	10.89	-29.68	-13.00	16.68	V

Remark:

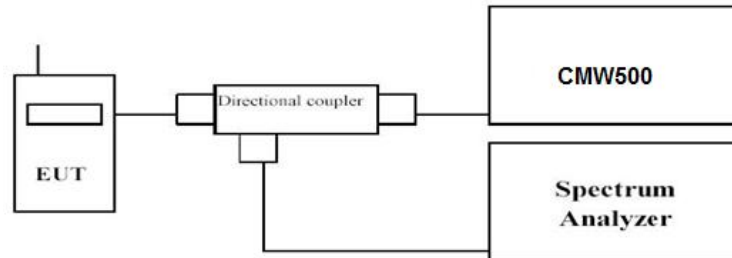
1. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
2. We were not recorded other points as values lower than limits.
3. $Margin = EIRP - Limit$

3.5 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



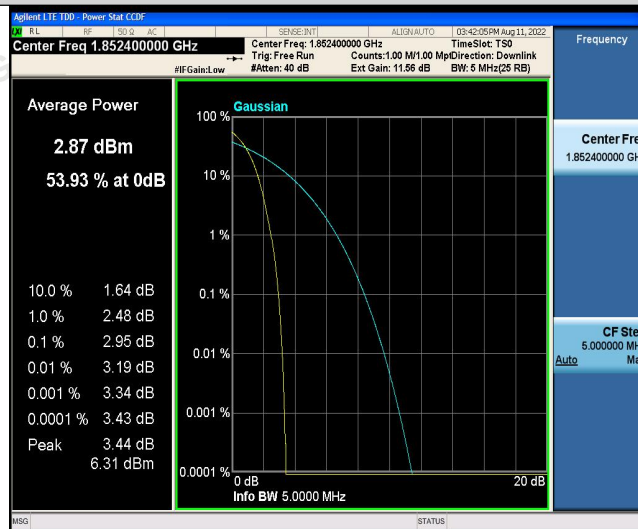
TEST PROCEDURE

1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows: 1). for continuous transmissions, set to 1 ms, 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

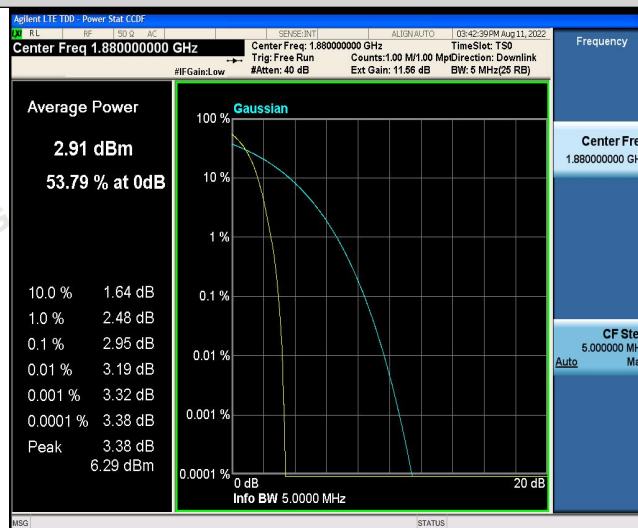
TEST RESULTS

Test mode	Channel	Frequency (MHz)	PAPR Value (dB)	Limits (dB)	Verdict
WCDMA Band II	9262	1852.4	2.95	13.0	Pass
	9400	1880.0	2.95	13.0	Pass
	9538	1907.6	2.97	13.0	Pass
WCDMA Band V	4132	826.4	3.09	13.0	Pass
	4183	836.6	3.11	13.0	Pass
	4233	846.6	3.07	13.0	Pass

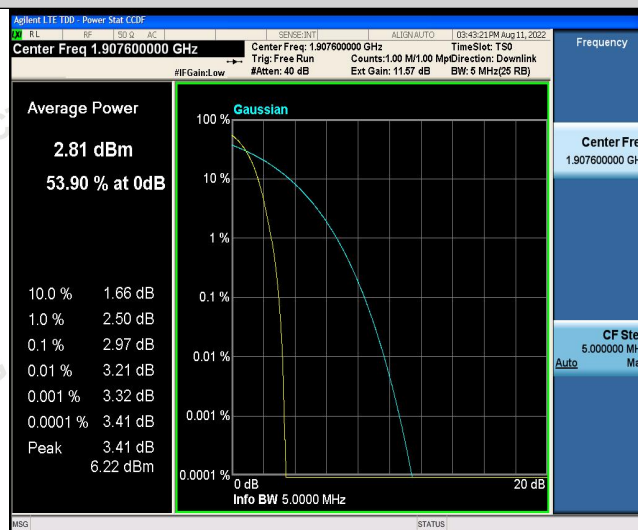
Band2-9262



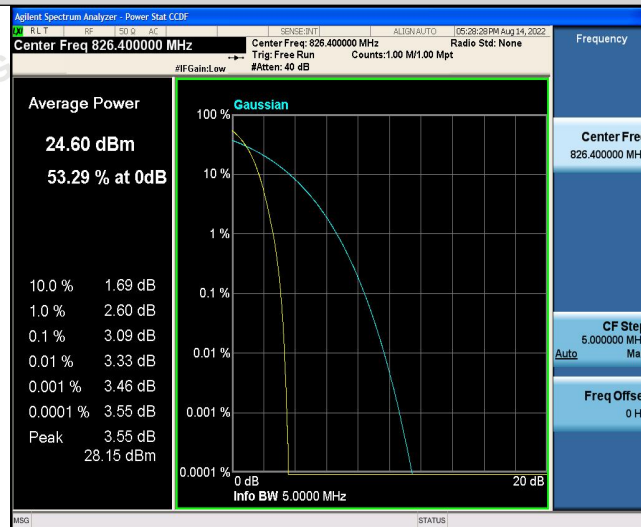
Band2-9400



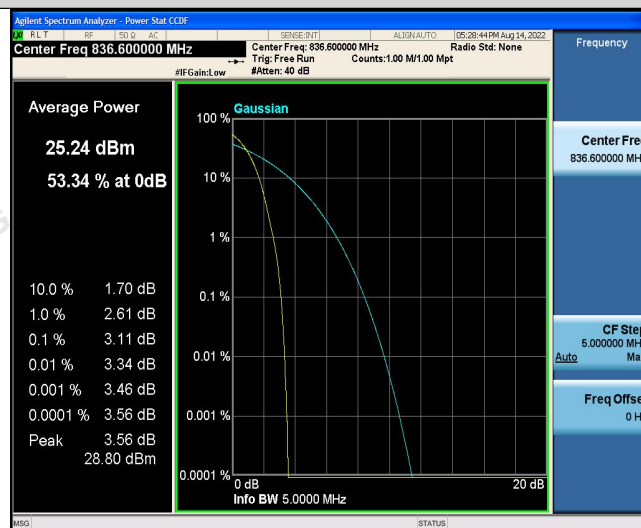
Band2-9538



Band5-4132



Band5-4183



Band5-4233

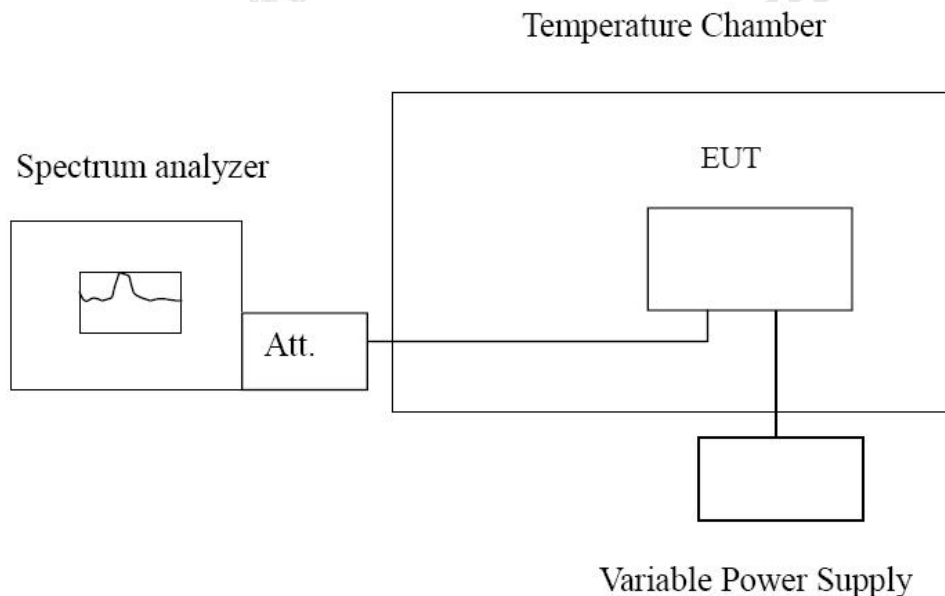


3.6 Frequency Stability under Temperature & Voltage Variations

LIMIT

Cellular Band: ± 2.5 ppm PCS Band: Within the authorized frequency block

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

Frequency Stability under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

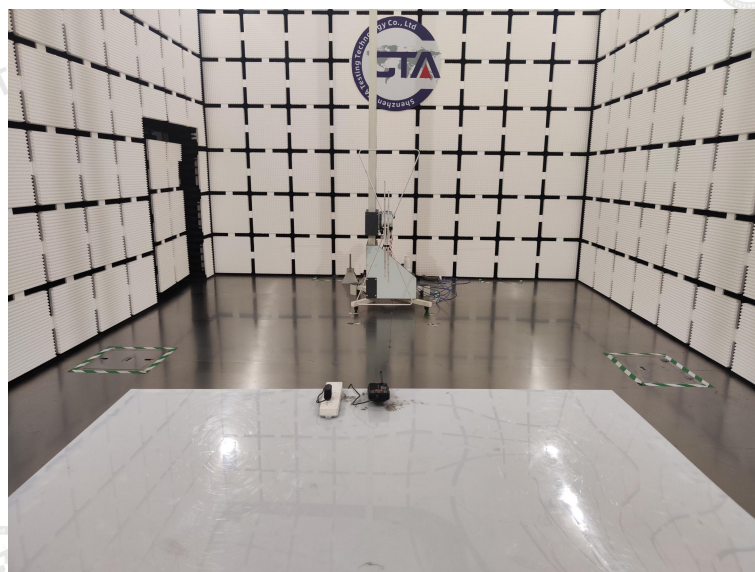
Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

TEST RESULTS

Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	42.81	0.022769	±2.5	Pass
	-20	61.01	0.032452		
	-10	54.18	0.028820		
	0	60.60	0.032233		
	10	71.25	0.037898		
	20	68.87	0.036634		
	30	48.32	0.025705		
	40	46.43	0.024696		
	50	62.75	0.033376		
4.26	25	68.55	0.036462	±2.5	Pass
End point 3.15	25	70.96	0.037747		

Reference Frequency: WCDMA Band V Middle channel=4182 channel=836.6MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.70	-30	7.94	0.009489	±2.5	Pass
	-20	13.25	0.015832		
	-10	14.42	0.017232		
	0	14.80	0.017687		
	10	14.63	0.017486		
	20	13.02	0.015559		
	30	6.46	0.007726		
	40	18.54	0.022158		
	50	-3.15	-0.003763		
4.26	25	15.62	0.018676	±2.5	Pass
End point 3.15	25	18.13	0.021666		

4 Test Setup Photos of the EUT



5 External and Internal Photos of the EUT

Reference to the test report No. CTA22090900601

***** End of Report *****