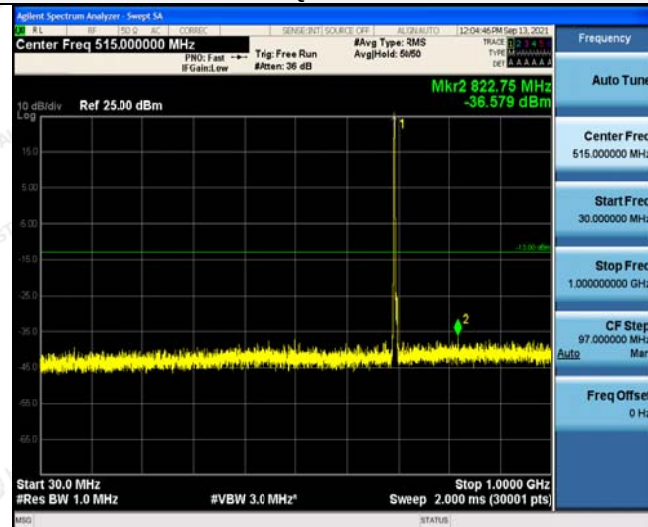


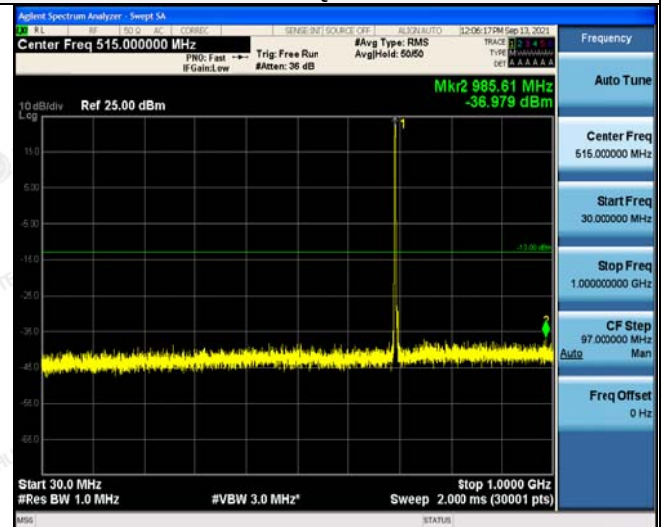


LTE FDD Band 12-3MHz Channel Bandwidth
Low Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz ~5GHz



1GHz ~5GHz



5GHz ~12GHz

5GHz ~12GHz

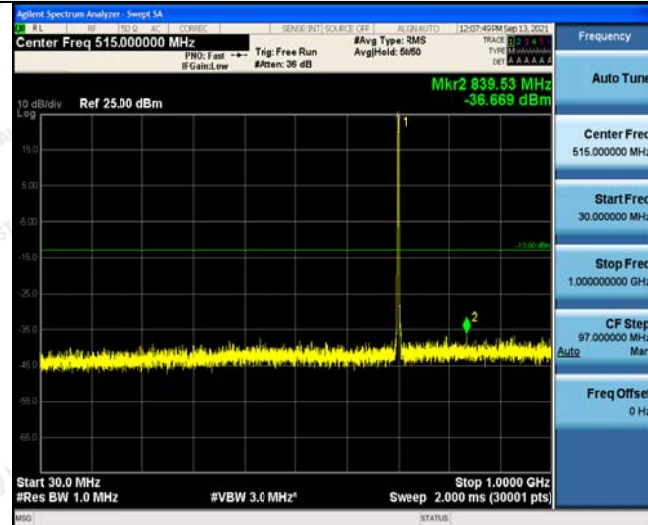
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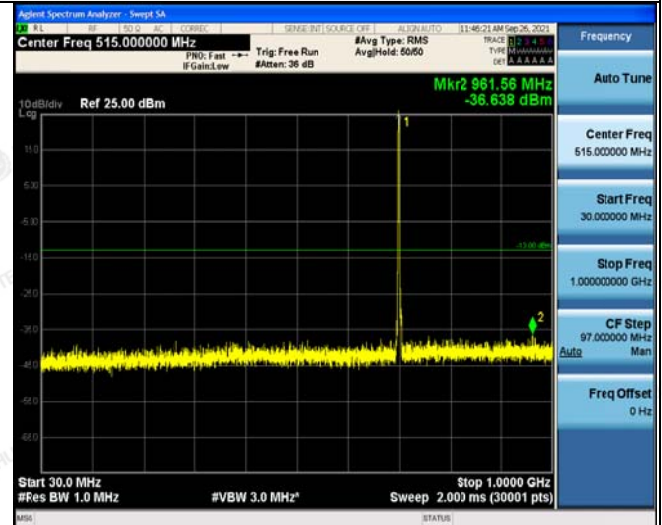


LTE FDD Band 12-3MHz Channel Bandwidth
Middle Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz ~5GHz



1GHz ~5GHz



5GHz ~12GHz

5GHz ~12GHz

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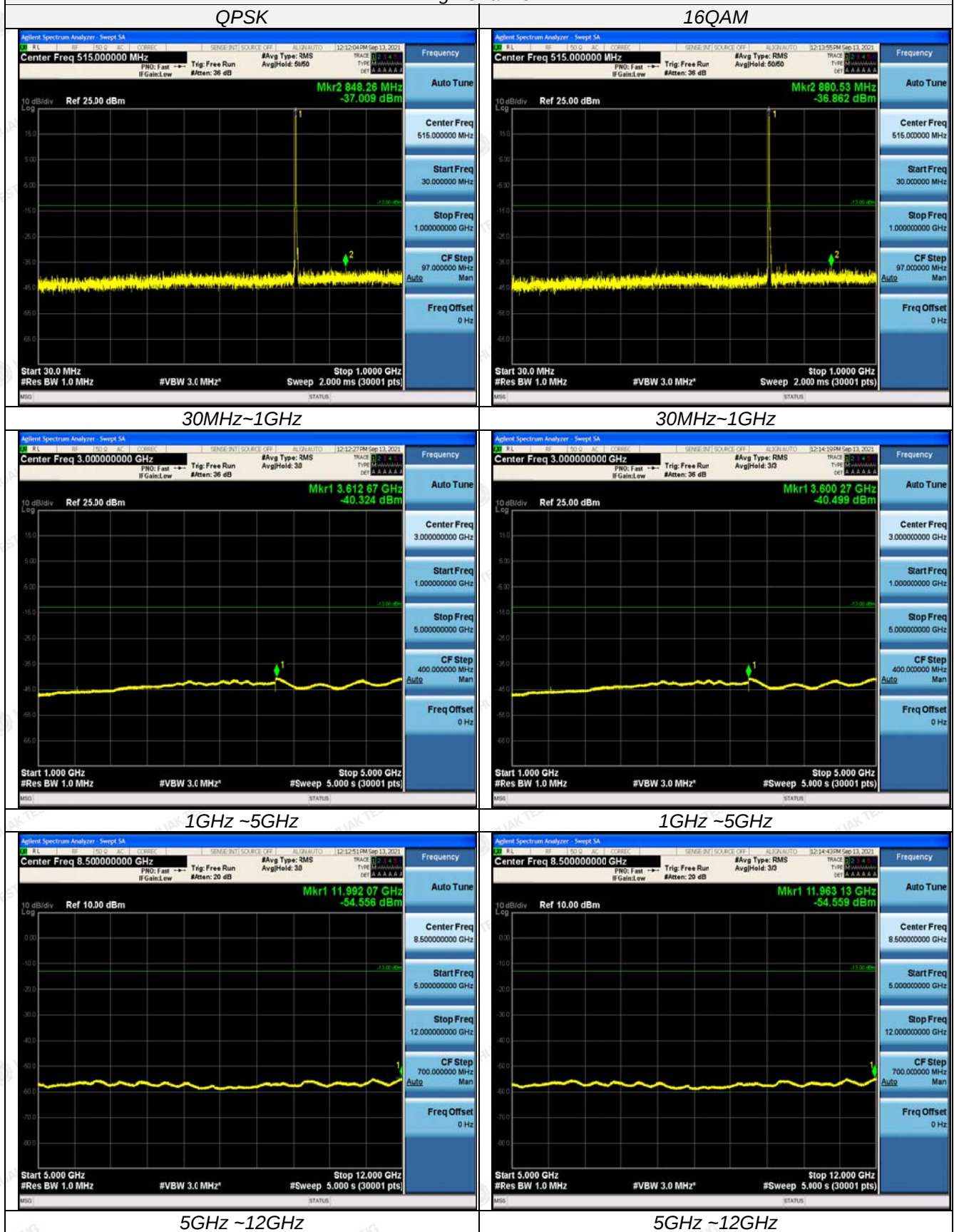
HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





LTE FDD Band 12-3MHz Channel Bandwidth
High Channel

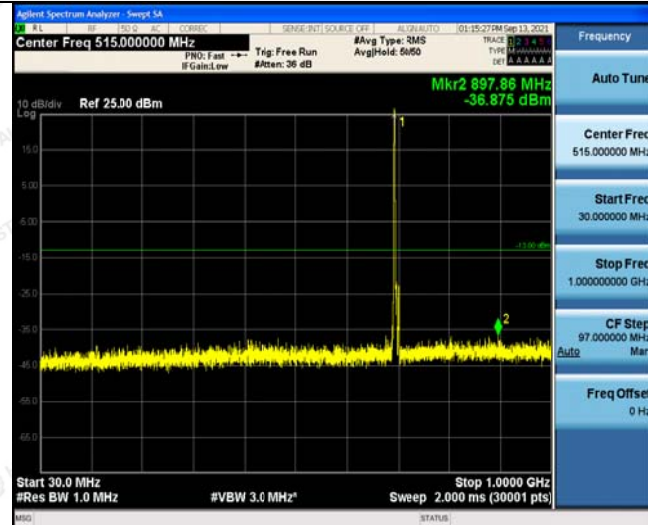


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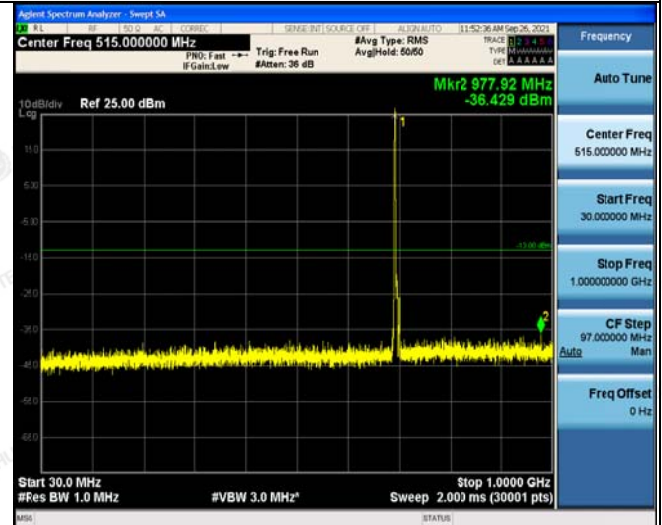


LTE FDD Band 12-5MHz Channel Bandwidth
Low Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz ~5GHz



1GHz ~5GHz



5GHz ~12GHz

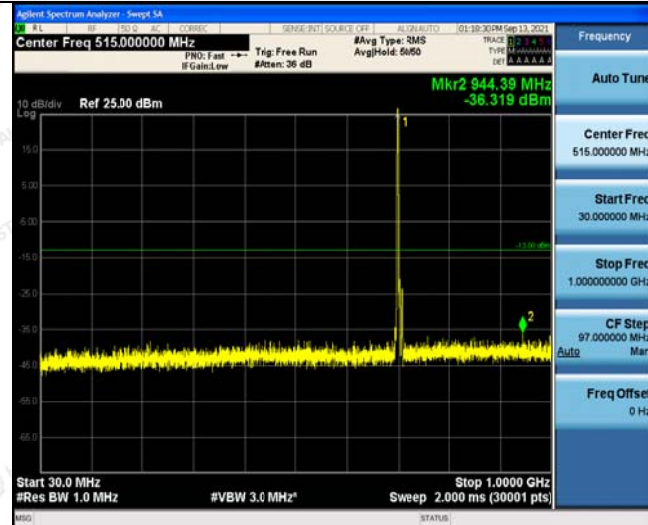
5GHz ~12GHz

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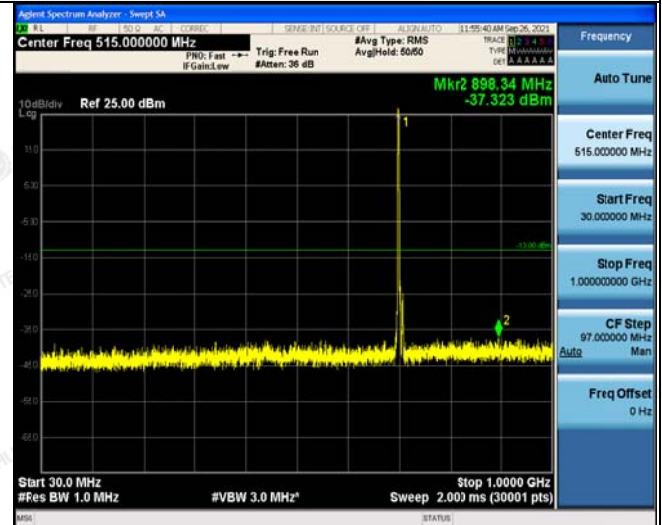


LTE FDD Band 12-5MHz Channel Bandwidth
Middle Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz ~5GHz



1GHz ~5GHz

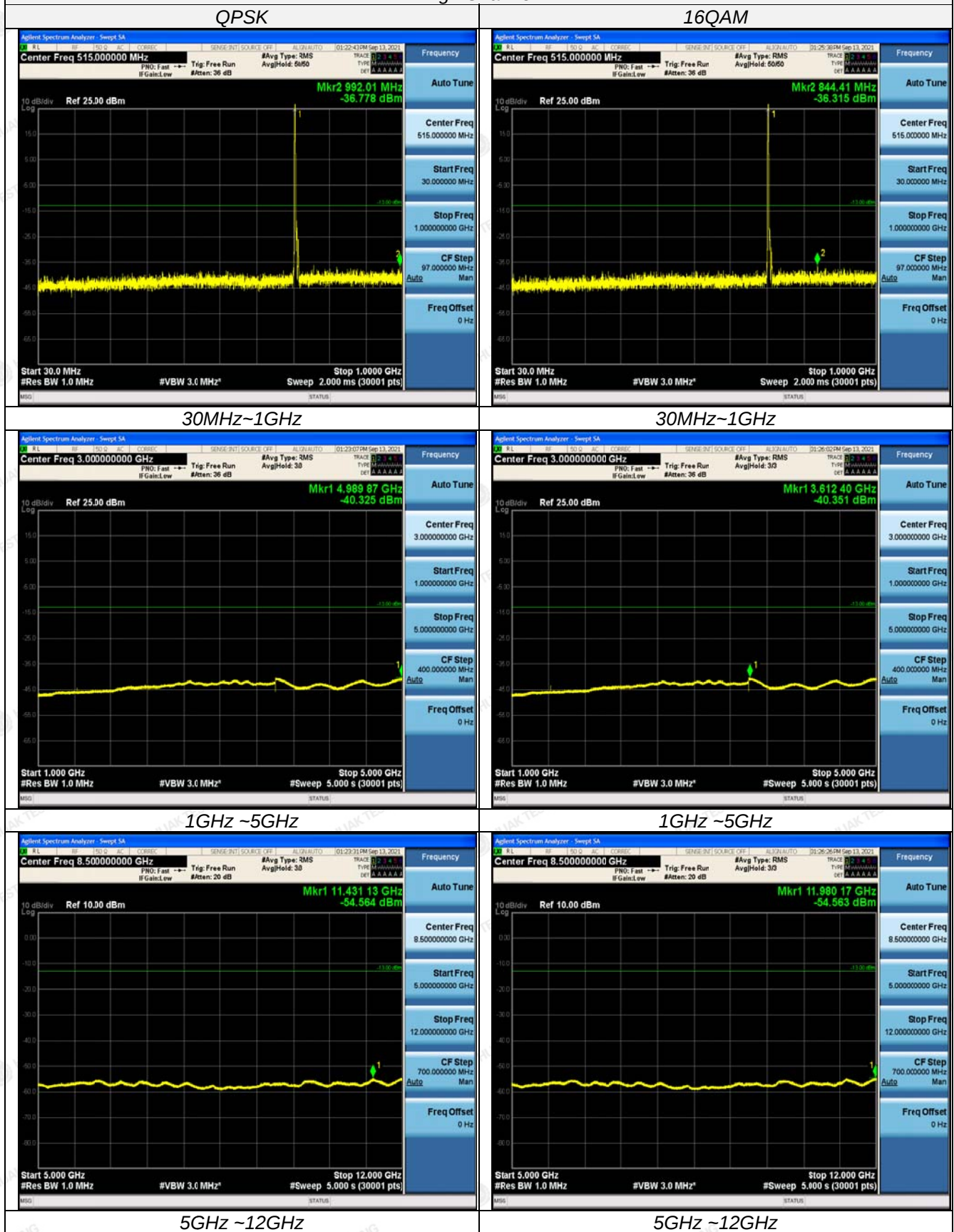


5GHz ~12GHz

5GHz ~12GHz

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LTE FDD Band 12-5MHz Channel Bandwidth
High Channel

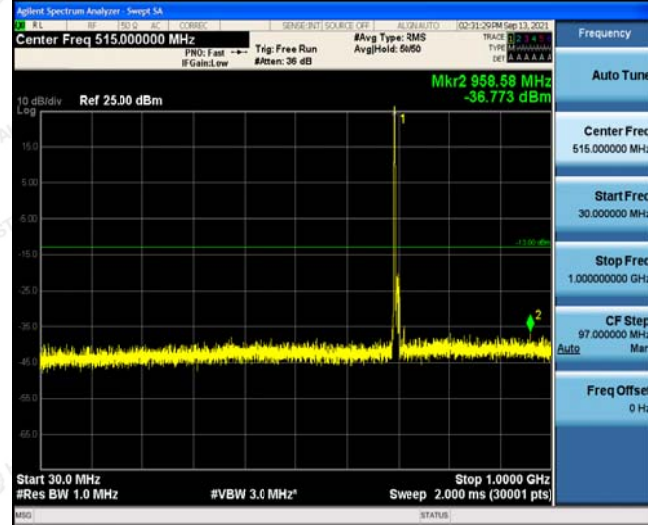
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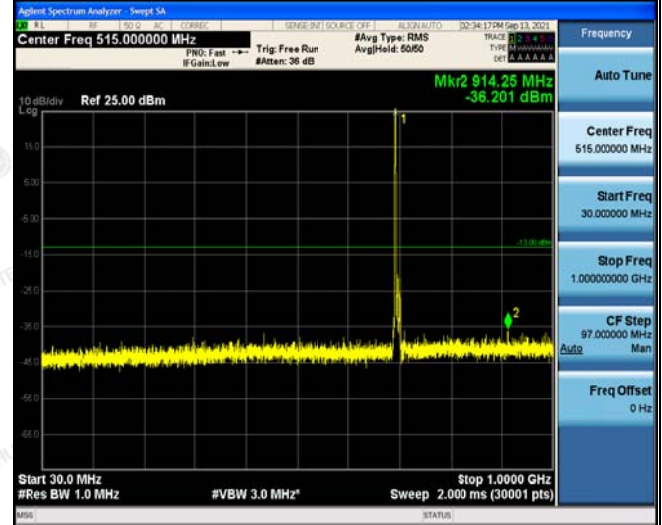


LTE FDD Band 12-10MHz Channel Bandwidth
Low Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz ~5GHz



1GHz ~5GHz



5GHz ~12GHz

5GHz ~12GHz

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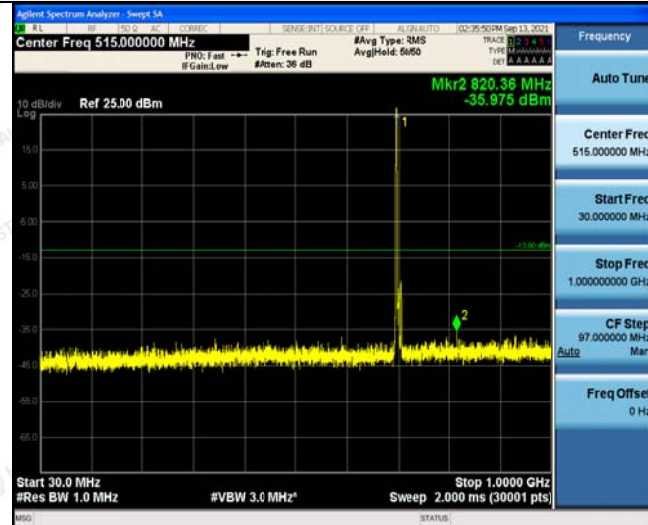
HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

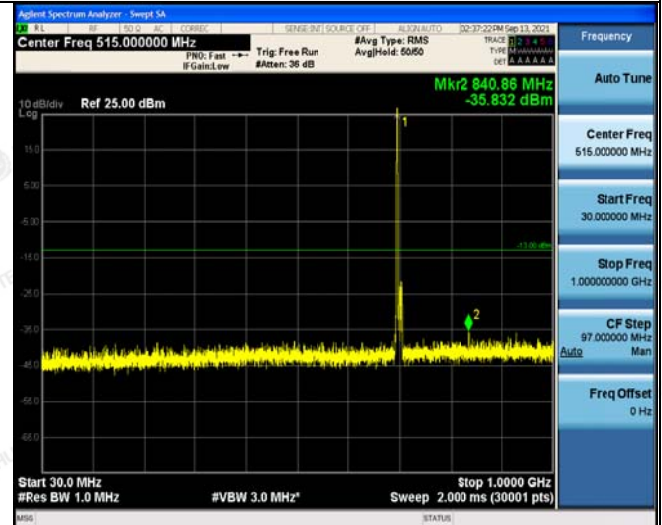


LTE FDD Band 12-10MHz Channel Bandwidth
Middle Channel

QPSK



16QAM



30MHz~1GHz



30MHz~1GHz



1GHz ~5GHz



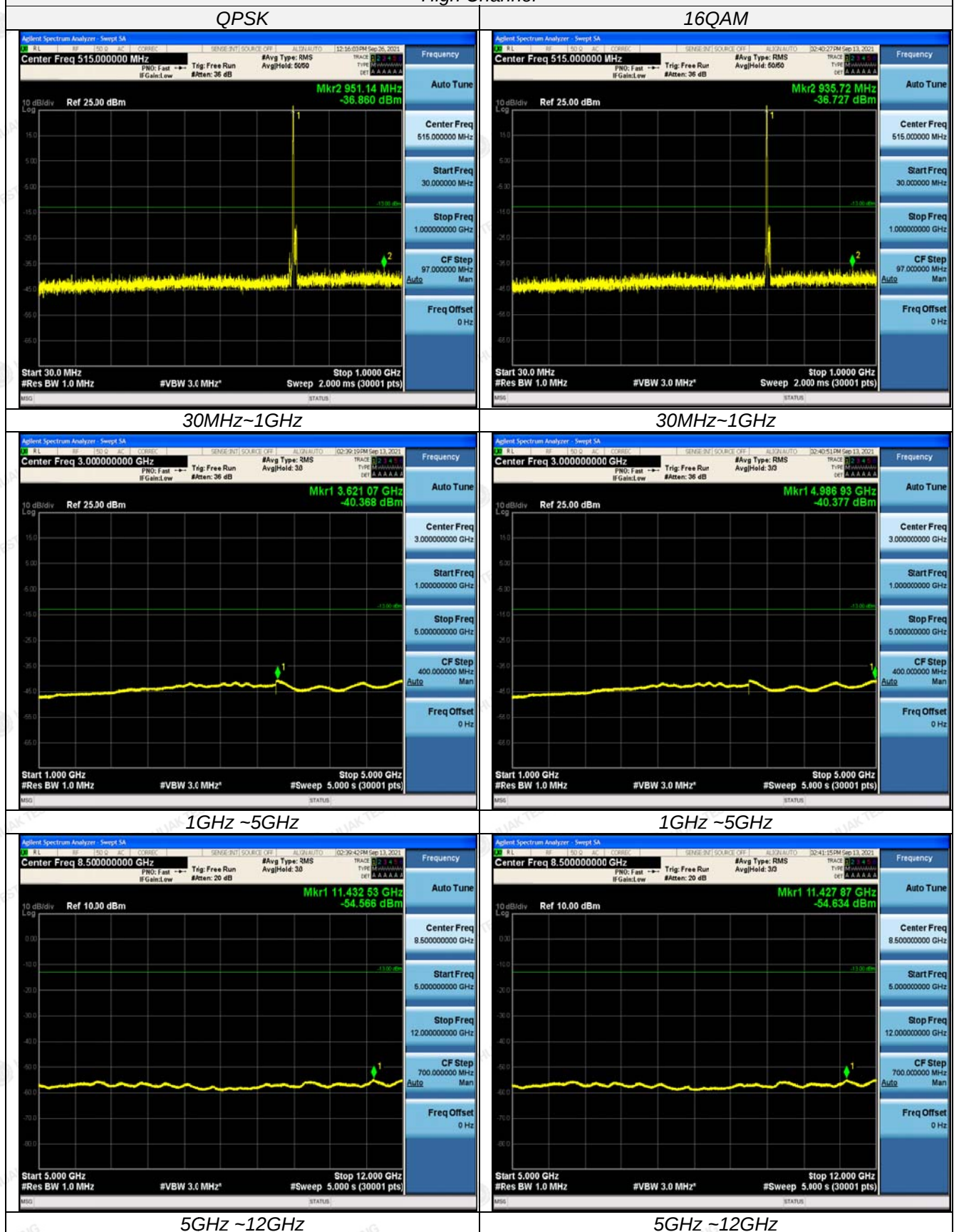
1GHz ~5GHz



5GHz ~12GHz

5GHz ~12GHz



LTE FDD Band 12-10MHz Channel Bandwidth
High Channel

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**Radiated Measurement:**

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 12; recorded worst case for each Channel Bandwidth of LTE FDD Band 12.
2. $EIRP = P_{Mea}(dBm) - P_{cl}(dB) + G_a(dBi)$
3. We were not recorded other points as values lower than limits.
4. $Margin = Limit - EIRP$

LTE FDD Band 12 Channel Bandwidth 1.4MHz QPSK Low Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.4	-34.9	2.86	3.00	7.25	-30.51	-13.00	17.51	H
2099.1	-43.71	2.94	3.00	9.53	-37.12	-13.00	24.12	H
1399.4	-43.57	2.86	3.00	7.25	-39.18	-13.00	26.18	V
2099.1	-47.83	2.94	3.00	9.53	-41.24	-13.00	28.24	V

LTE FDD Band 12 Channel Bandwidth 1.4MHz QPSK Middle Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-35.34	2.86	3.00	7.25	-30.95	-13.00	17.95	H
2122.5	-43.48	2.94	3.00	9.53	-36.89	-13.00	23.89	H
1415.0	-44.68	2.86	3.00	7.25	-40.29	-13.00	27.29	V
2122.5	-46.62	2.94	3.00	9.53	-40.03	-13.00	27.03	V

LTE FDD Band 12 Channel Bandwidth 1.4MHz QPSK High Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-35.51	2.86	3.00	7.25	-31.12	-13.00	18.12	H
2145.9	-42.58	2.94	3.00	9.53	-35.99	-13.00	22.99	H
1430.6	-44.59	2.86	3.00	7.25	-40.2	-13.00	27.2	V
2145.9	-46.51	2.94	3.00	9.53	-39.92	-13.00	26.92	V

LTE FDD Band 12 Channel Bandwidth 3MHz QPSK Low Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1401.0	-35.02	2.86	3.00	7.25	-30.63	-13.00	17.63	H
2101.5	-43.49	2.94	3.00	9.53	-36.9	-13.00	23.9	H
1401.0	-44.25	2.86	3.00	7.25	-39.86	-13.00	26.86	V
2101.5	-46.67	2.94	3.00	9.53	-40.08	-13.00	27.08	V

LTE FDD Band 12 Channel Bandwidth 3MHz QPSK Middle Channel

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	Diatance	G_a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-35.58	2.86	3.00	7.25	-31.19	-13.00	18.19	H
2122.5	-43.51	2.94	3.00	9.53	-36.92	-13.00	23.92	H
1415.0	-44.66	2.86	3.00	7.25	-40.27	-13.00	27.27	V
2122.5	-47.61	2.94	3.00	9.53	-41.02	-13.00	28.02	V

*LTE FDD Band 12 Channel Bandwidth 3MHz QPSK High Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-35.11	2.86	3.00	7.25	-30.72	-13.00	17.72	H
2143.5	-44.02	2.94	3.00	9.53	-37.43	-13.00	24.43	H
1429.0	-44.62	2.86	3.00	7.25	-40.23	-13.00	27.23	V
2143.5	-46.58	2.94	3.00	9.53	-39.99	-13.00	26.99	V

LTE FDD Band 12 Channel Bandwidth 5MHz QPSK Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1403.0	-35.96	2.86	3.00	7.25	-31.57	-13.00	18.57	H
2104.5	-43.31	2.94	3.00	9.53	-36.72	-13.00	23.72	H
1403.0	-43.49	2.86	3.00	7.25	-39.1	-13.00	26.1	V
2104.5	-47.64	2.94	3.00	9.53	-41.05	-13.00	28.05	V

LTE FDD Band 12 Channel Bandwidth 5MHz QPSK Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-35.72	2.86	3.00	7.25	-31.33	-13.00	18.33	H
2122.5	-42.98	2.94	3.00	9.53	-36.39	-13.00	23.39	H
1415.0	-43.54	2.86	3.00	7.25	-39.15	-13.00	26.15	V
2122.5	-47.28	2.94	3.00	9.53	-40.69	-13.00	27.69	V

LTE FDD Band 12 Channel Bandwidth 5MHz QPSK High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-35.85	2.86	3.00	7.25	-31.46	-13.00	18.46	H
2140.5	-43.78	2.94	3.00	9.53	-37.19	-13.00	24.19	H
1427.0	-44.8	2.86	3.00	7.25	-40.41	-13.00	27.41	V
2140.5	-47.15	2.94	3.00	9.53	-40.56	-13.00	27.56	V

LTE FDD Band 12 Channel Bandwidth 10MHz QPSK Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1408.0	-36.08	2.86	3.00	7.25	-31.69	-13.00	18.69	H
2112.0	-42.91	2.94	3.00	9.53	-36.32	-13.00	23.32	H
1408.0	-44	2.86	3.00	7.25	-39.61	-13.00	26.61	V
2112.0	-47.44	2.94	3.00	9.53	-40.85	-13.00	27.85	V

LTE FDD Band 12 Channel Bandwidth 10MHz QPSK Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-35.65	2.86	3.00	7.25	-31.26	-13.00	18.26	H
2122.5	-43.51	2.94	3.00	9.53	-36.92	-13.00	23.92	H
1415.0	-44.41	2.86	3.00	7.25	-40.02	-13.00	27.02	V
2122.5	-46.91	2.94	3.00	9.53	-40.32	-13.00	27.32	V

*LTE FDD Band 12 Channel Bandwidth 10MHz QPSK High Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-35.13	2.86	3.00	7.25	-30.74	-13.00	17.74	H
2133.0	-42.65	2.94	3.00	9.53	-36.06	-13.00	23.06	H
1422.0	-43.85	2.86	3.00	7.25	-39.46	-13.00	26.46	V
2133.0	-47.09	2.94	3.00	9.53	-40.5	-13.00	27.5	V

LTE FDD Band 12 Channel Bandwidth 1.4MHz 16QAM Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1399.4	-35.21	2.86	3.00	7.25	-30.82	-13.00	17.82	H
2099.1	-43.39	2.94	3.00	9.53	-36.8	-13.00	23.8	H
1399.4	-44.2	2.86	3.00	7.25	-39.81	-13.00	26.81	V
2099.1	-47.13	2.94	3.00	9.53	-40.54	-13.00	27.54	V

LTE FDD Band 12 Channel Bandwidth 1.4MHz 16QAM Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-35.16	2.86	3.00	7.25	-30.77	-13.00	17.77	H
2122.5	-43.78	2.94	3.00	9.53	-37.19	-13.00	24.19	H
1415.0	-44.32	2.86	3.00	7.25	-39.93	-13.00	26.93	V
2122.5	-46.96	2.94	3.00	9.53	-40.37	-13.00	27.37	V

LTE FDD Band 12 Channel Bandwidth 1.4MHz 16QAM High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1430.6	-35.71	2.86	3.00	7.25	-31.32	-13.00	18.32	H
2145.9	-43.38	2.94	3.00	9.53	-36.79	-13.00	23.79	H
1430.6	-43.96	2.86	3.00	7.25	-39.57	-13.00	26.57	V
2145.9	-46.4	2.94	3.00	9.53	-39.81	-13.00	26.81	V

LTE FDD Band 12 Channel Bandwidth 3MHz 16QAM Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1401.0	-34.94	2.86	3.00	7.25	-30.55	-13.00	17.55	H
2101.5	-43.46	2.94	3.00	9.53	-36.87	-13.00	23.87	H
1401.0	-44.1	2.86	3.00	7.25	-39.71	-13.00	26.71	V
2101.5	-47.4	2.94	3.00	9.53	-40.81	-13.00	27.81	V

LTE FDD Band 12 Channel Bandwidth 3MHz 16QAM Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-35.23	2.86	3.00	7.25	-30.84	-13.00	17.84	H
2122.5	-42.99	2.94	3.00	9.53	-36.4	-13.00	23.4	H
1415.0	-44.23	2.86	3.00	7.25	-39.84	-13.00	26.84	V
2122.5	-47.63	2.94	3.00	9.53	-41.04	-13.00	28.04	V

*LTE FDD Band 12 Channel Bandwidth 3MHz 16QAM High Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1429.0	-35.73	2.86	3.00	7.25	-31.34	-13.00	18.34	H
2143.5	-42.62	2.94	3.00	9.53	-36.03	-13.00	23.03	H
1429.0	-44.05	2.86	3.00	7.25	-39.66	-13.00	26.66	V
2143.5	-47.07	2.94	3.00	9.53	-40.48	-13.00	27.48	V

LTE FDD Band 12 Channel Bandwidth 5MHz 16QAM Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1403.0	-35.05	2.86	3.00	7.25	-30.66	-13.00	17.66	H
2104.5	-42.99	2.94	3.00	9.53	-36.4	-13.00	23.4	H
1403.0	-44.58	2.86	3.00	7.25	-40.19	-13.00	27.19	V
2104.5	-47.47	2.94	3.00	9.53	-40.88	-13.00	27.88	V

LTE FDD Band 12 Channel Bandwidth 5MHz 16QAM Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-34.72	2.86	3.00	7.25	-30.33	-13.00	17.33	H
2122.5	-39.3	2.94	3.00	9.53	-32.71	-13.00	19.71	H
1415.0	-42.29	2.86	3.00	7.25	-37.9	-13.00	24.9	V
2122.5	-46.85	2.94	3.00	9.53	-40.26	-13.00	27.26	V

LTE FDD Band 12 Channel Bandwidth 5MHz 16QAM High Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1427.0	-39.07	2.86	3.00	7.25	-34.68	-13.00	21.68	H
2140.5	-44.48	2.94	3.00	9.53	-37.89	-13.00	24.89	H
1427.0	-47.97	2.86	3.00	7.25	-43.58	-13.00	30.58	V
2140.5	-52.16	2.94	3.00	9.53	-45.57	-13.00	32.57	V

LTE FDD Band 12 Channel Bandwidth 10MHz 16QAM Low Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1408.0	-35.66	2.86	3.00	7.25	-31.27	-13.00	18.27	H
2112.0	-43.5	2.94	3.00	9.53	-36.91	-13.00	23.91	H
1408.0	-43.98	2.86	3.00	7.25	-39.59	-13.00	26.59	V
2112.0	-47.3	2.94	3.00	9.53	-40.71	-13.00	27.71	V

LTE FDD Band 12 Channel Bandwidth 10MHz 16QAM Middle Channel

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1415.0	-35.22	2.86	3.00	7.25	-30.83	-13.00	17.83	H
2122.5	-43.12	2.94	3.00	9.53	-36.53	-13.00	23.53	H
1415.0	-43.9	2.86	3.00	7.25	-39.51	-13.00	26.51	V
2122.5	-46.53	2.94	3.00	9.53	-39.94	-13.00	26.94	V

*LTE FDD Band 12 Channel Bandwidth 10MHz 16QAM High Channel*

Frequency (MHz)	P _{Mea} (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
1422.0	-35.04	2.86	3.00	7.25	-30.65	-13.00	17.65	H
2133.0	-43.18	2.94	3.00	9.53	-36.59	-13.00	23.59	H
1422.0	-44.49	2.86	3.00	7.25	-40.1	-13.00	27.1	V
2133.0	-47.25	2.94	3.00	9.53	-40.66	-13.00	27.66	V

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HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

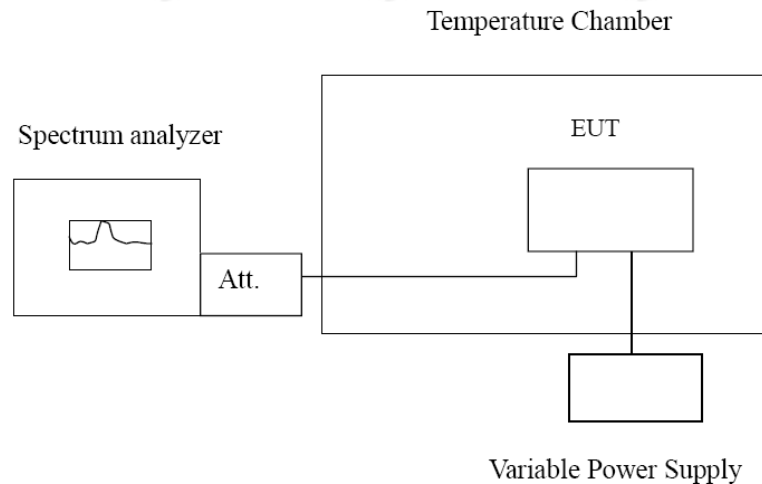


3.7 Frequency Stability Under Temperature & Voltage Variations

LIMIT

the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation and should not exceed 2.5ppm.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D.

Frequency Stability Under Temperature Variations:

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 12, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

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**

Remark:

1. We tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 12; recorded worst case.

LTE Band 12, 1.4MHz bandwidth (worst case of all bandwidths)

Frequency Error vs Voltage

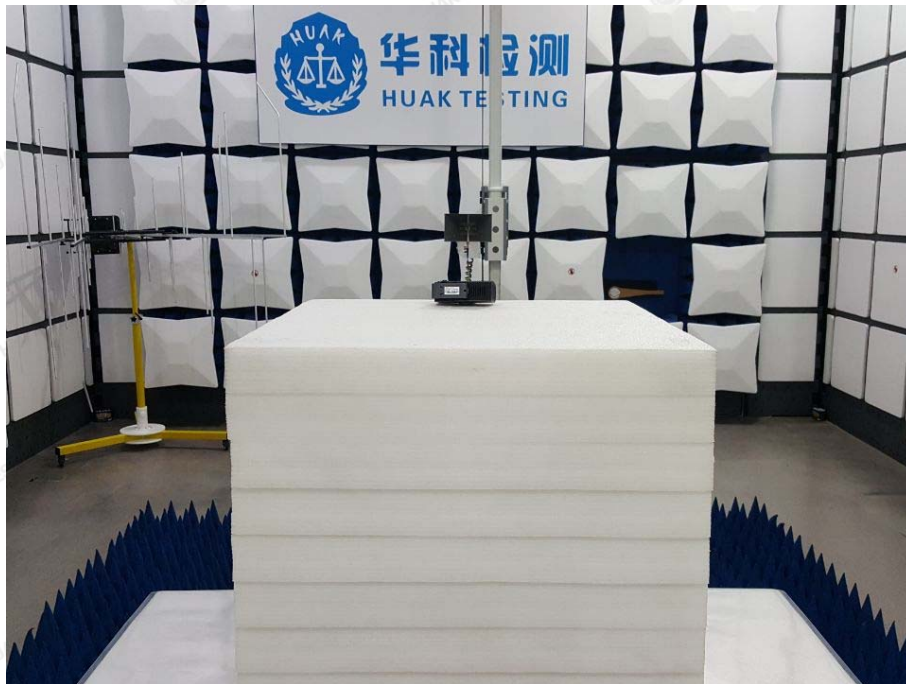
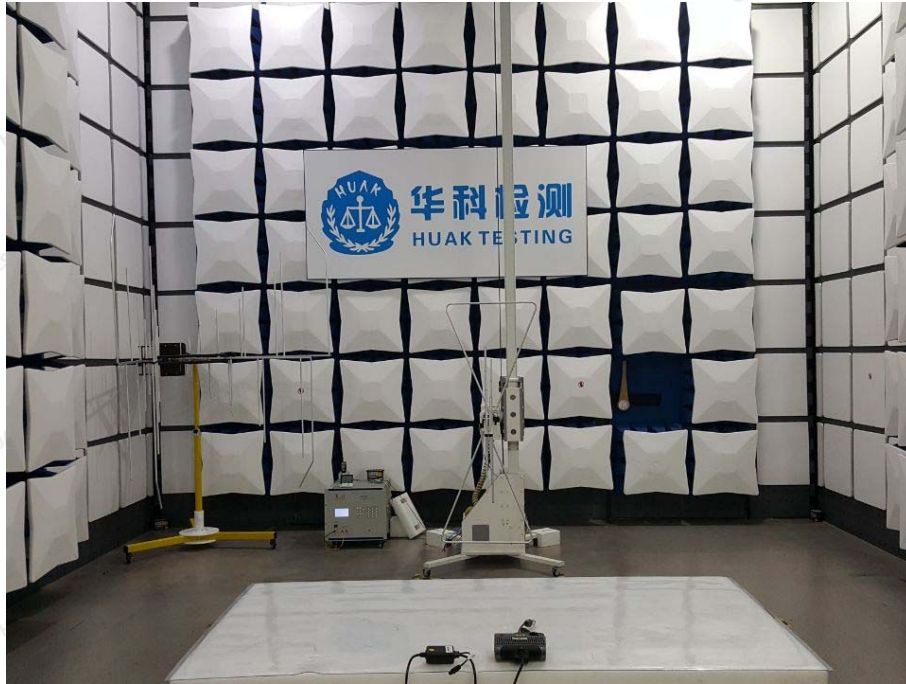
Voltage (V)	Frequency error (Hz)		Frequency error (ppm)	
	QPSK	16QAM	QPSK	16QAM
10.2V	-4.56	3.69	-0.006517	0.005274
12.0V	-3.43	2.93	-0.004848	0.004141
13.8V	-4.22	-2.95	-0.005900	-0.004124

Frequency Error vs Temperature

Temperature (°C)	Frequency error (Hz)		Frequency error (ppm)	
	QPSK	16QAM	QPSK	16QAM
-30°	2.85	3.86	0.004073	0.005517
-20°	-3.50	3.63	-0.005002	0.005188
-10°	-3.45	3.39	-0.004931	0.004845
0°	-3.83	-3.25	-0.005474	-0.004645
10°	3.99	3.46	0.005702	0.004945
20°	-4.42	4.03	-0.006247	0.005696
30°	-4.59	3.30	-0.006488	0.004664
40°	3.33	-3.63	0.004707	-0.005131
50°	-3.12	-3.75	-0.004410	-0.005300



4 TEST SETUP PHOTOS OF THE EUT



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5 PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

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

