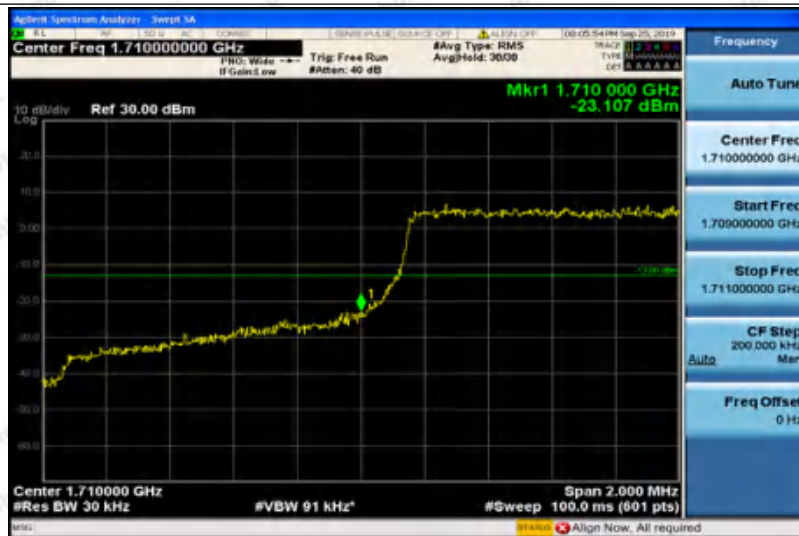
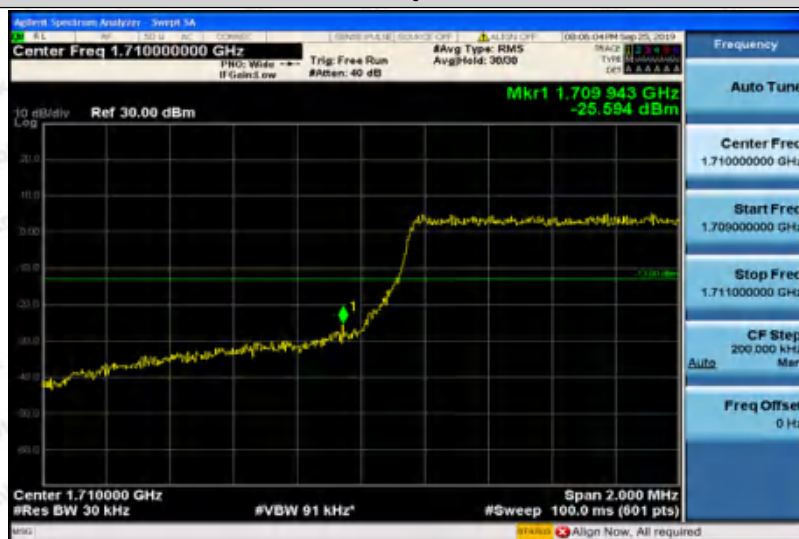




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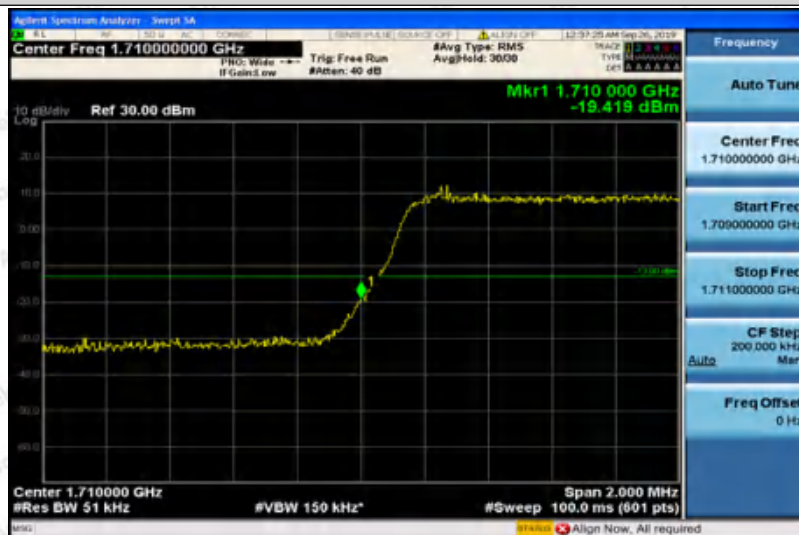
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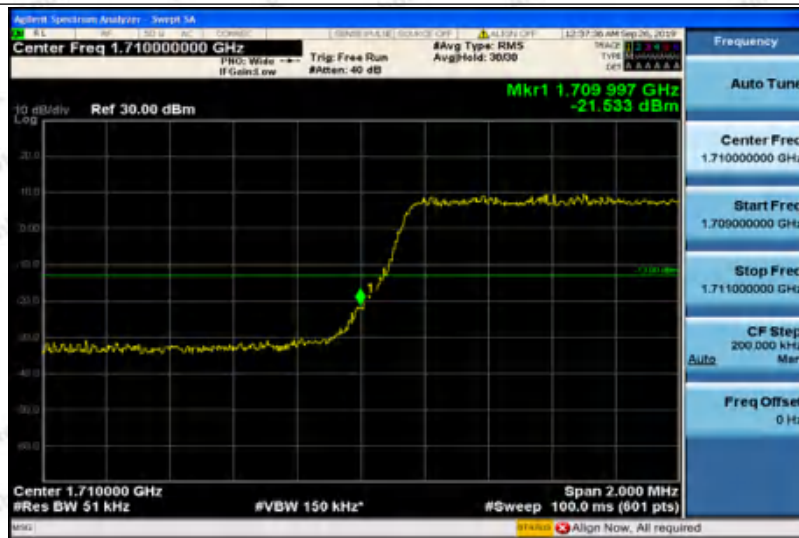
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Band4-3MHz-QPSK-20385-15RB#0



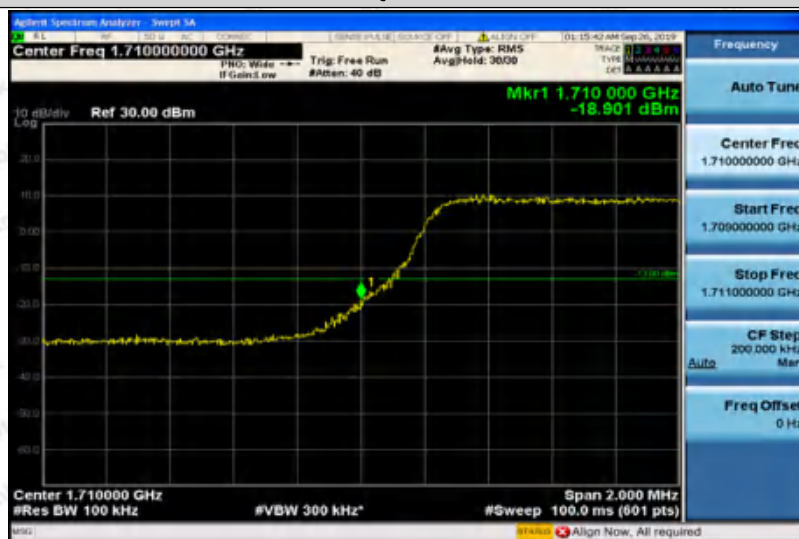
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Band4-3MHz-16QAM-20385-15RB#0



Band4-5MHz-QPSK-19975-25RB#0



Band4-5MHz-QPSK-20375-25RB#0



Band4-5MHz-16QAM-19975-25RB#0



Band4-5MHz-16QAM-20375-25RB#0



Band4-10MHz-QPSK-20000-50RB#0

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Hotline
400-003-0500
www.anbotek.com



Band4-10MHz-QPSK-20350-50RB#0



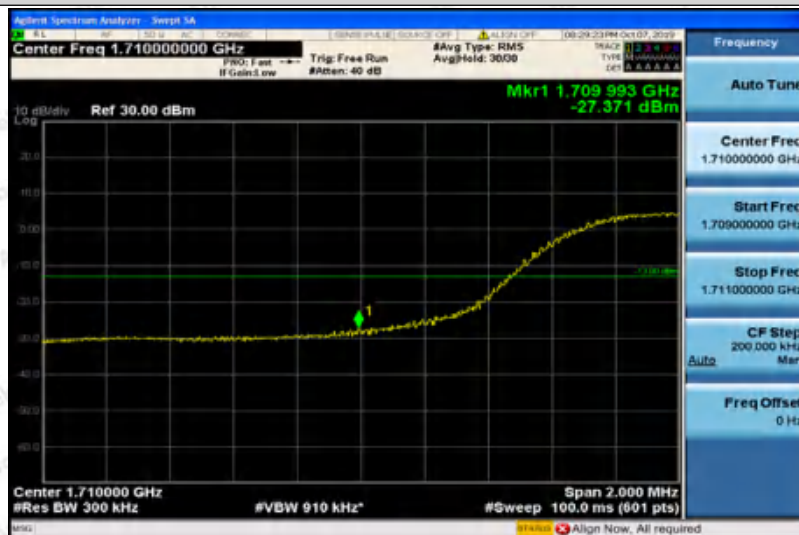
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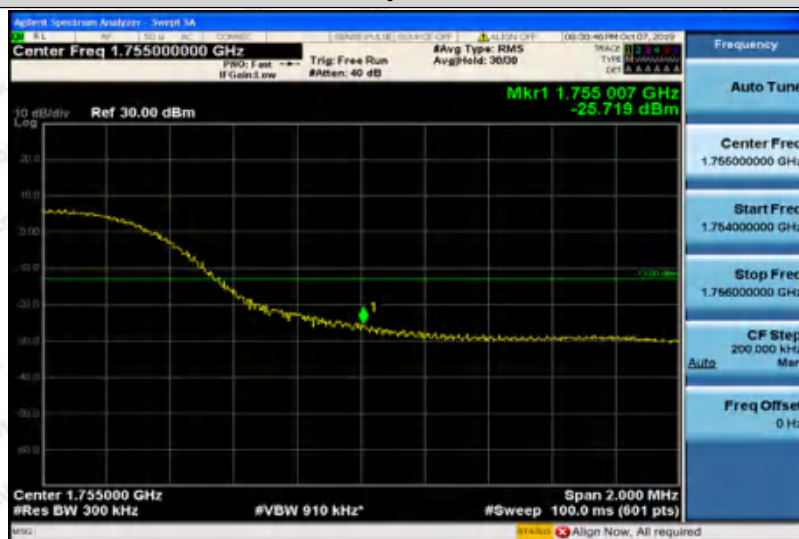
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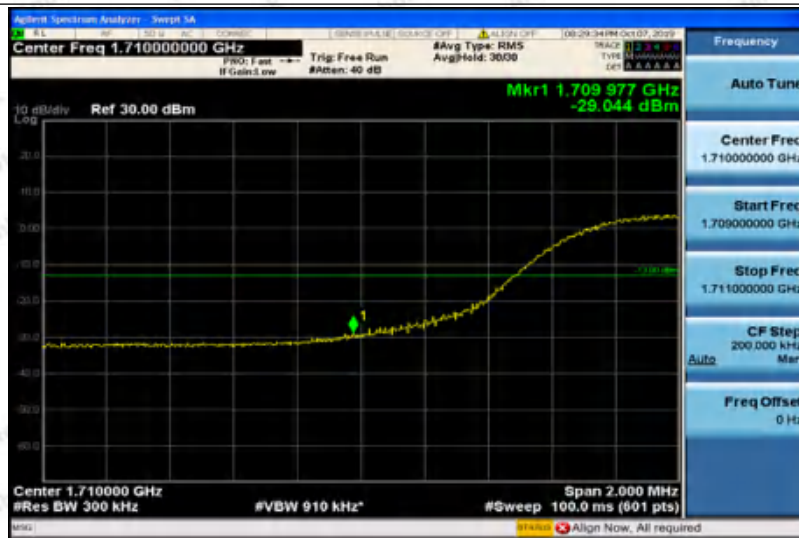
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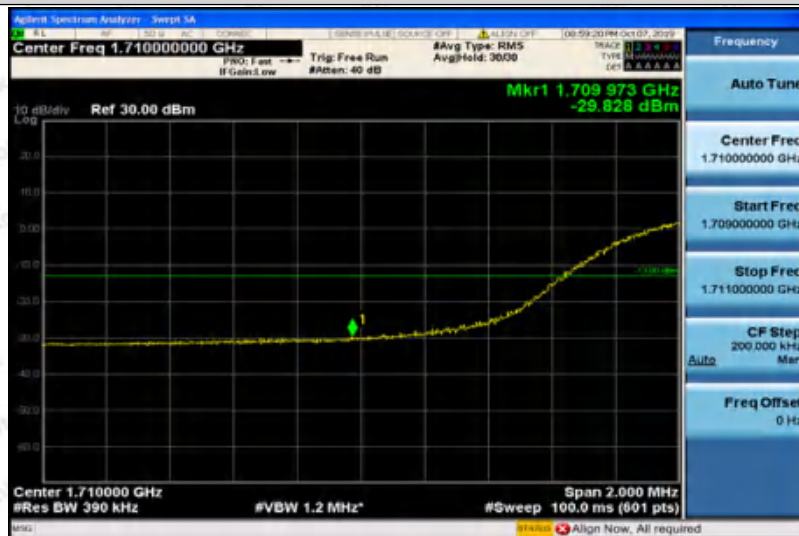
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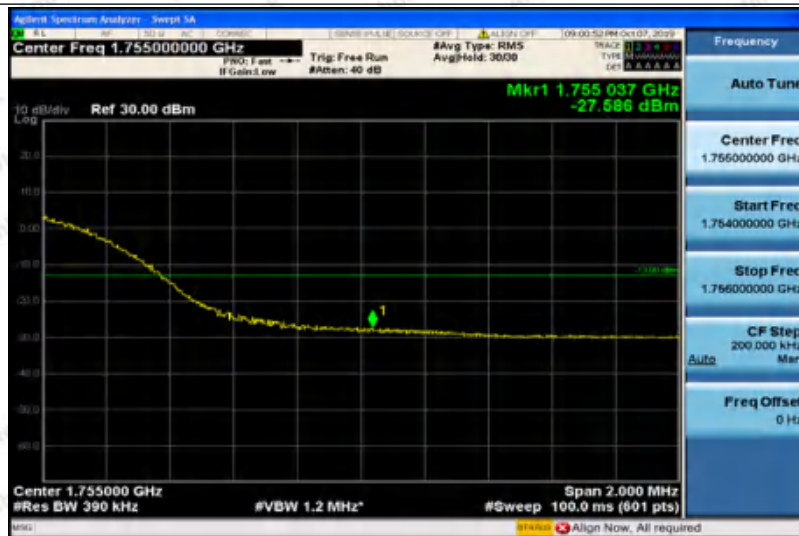
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Band4-20MHz-QPSK-20050-100RB#0



Band4-20MHz-QPSK-20300-100RB#0



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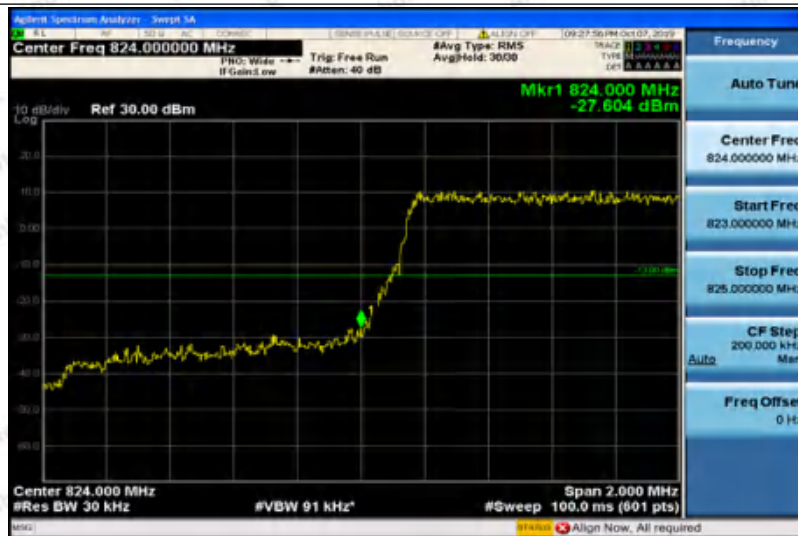
Band5-1.4MHz-QPSK-20407-6RB#0

Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Hotline
400-003-0500
www.anbotek.com



Band5-1.4MHz-QPSK-20643-6RB#0



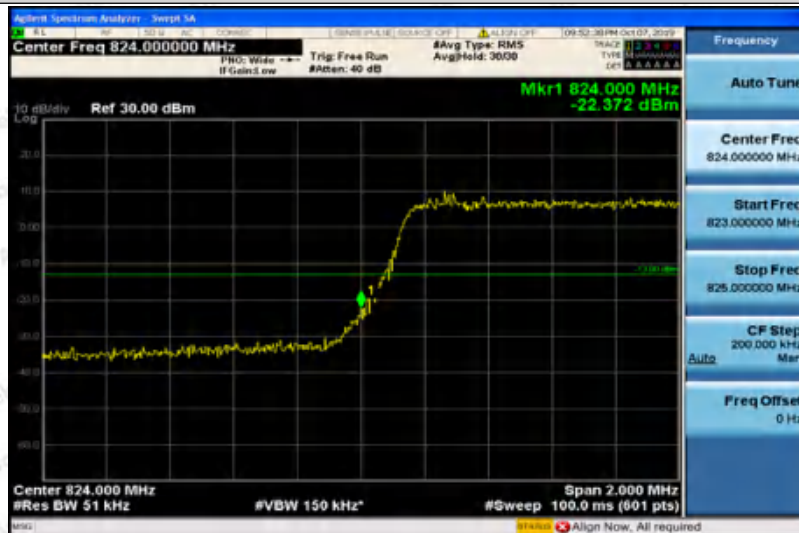
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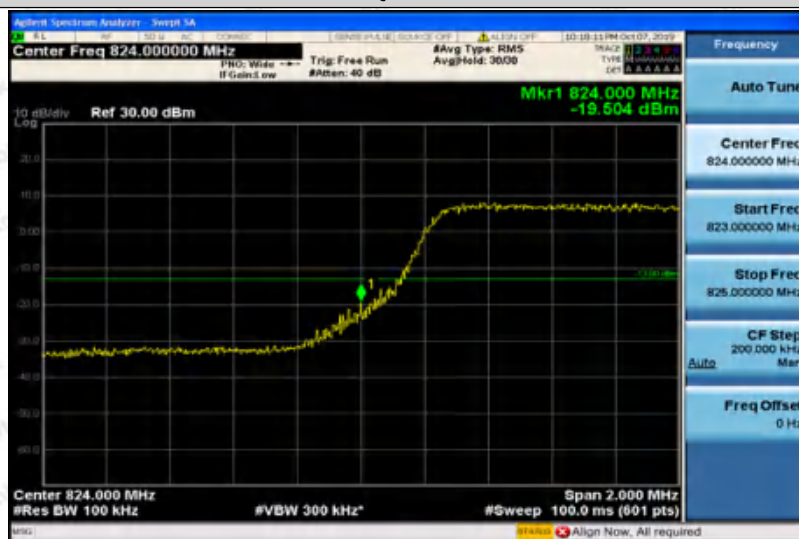
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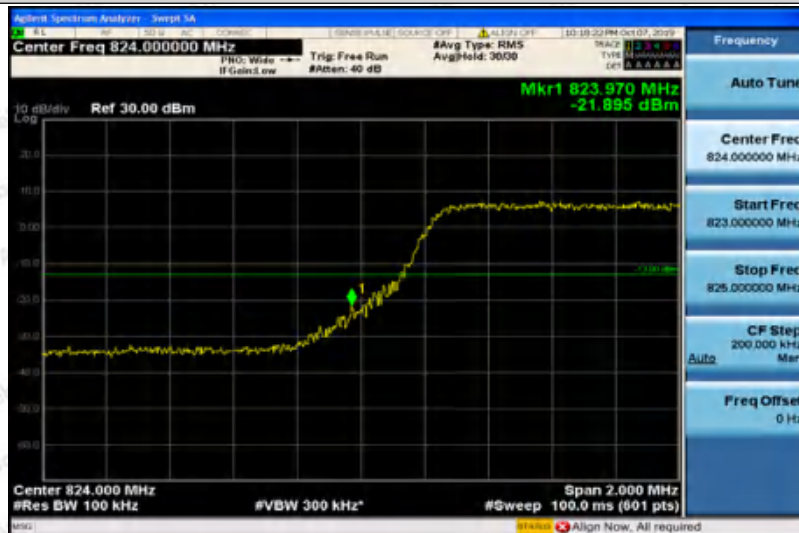
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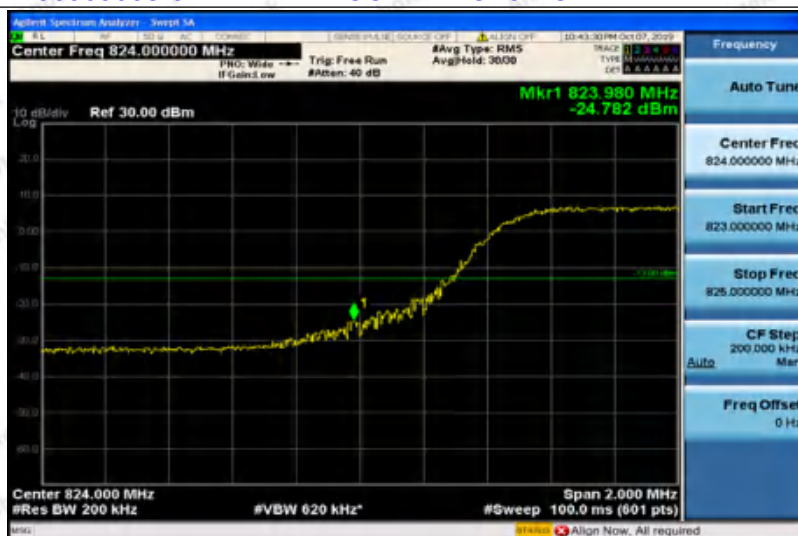
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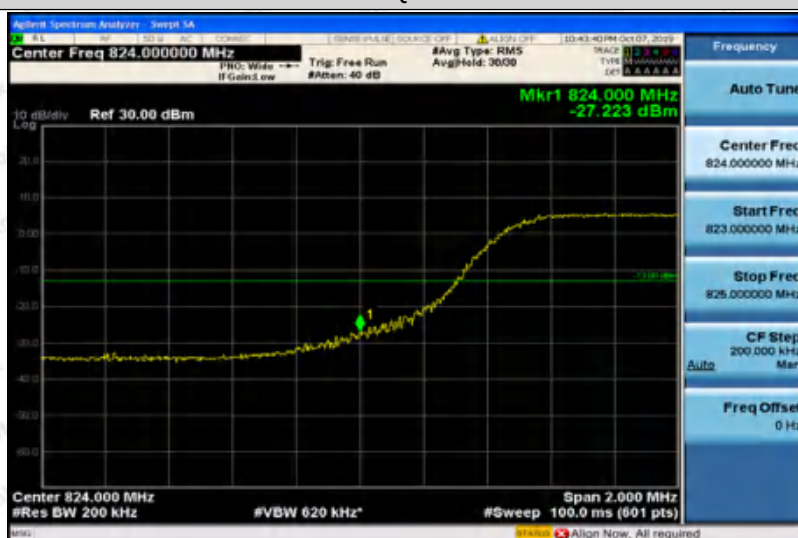
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Band5-10MHz-16QAM-20450-50RB#0



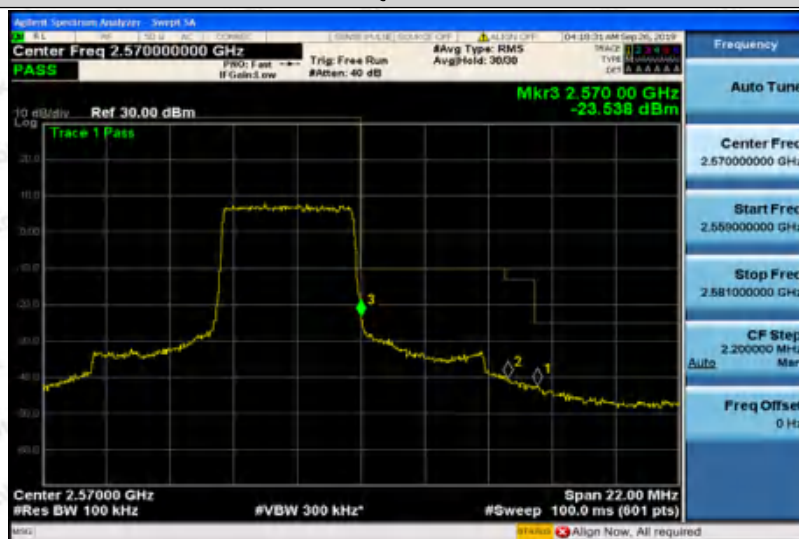
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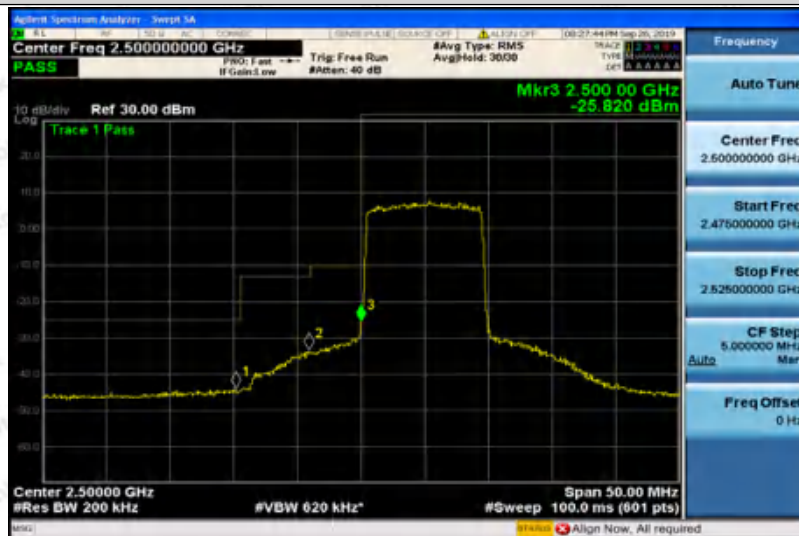
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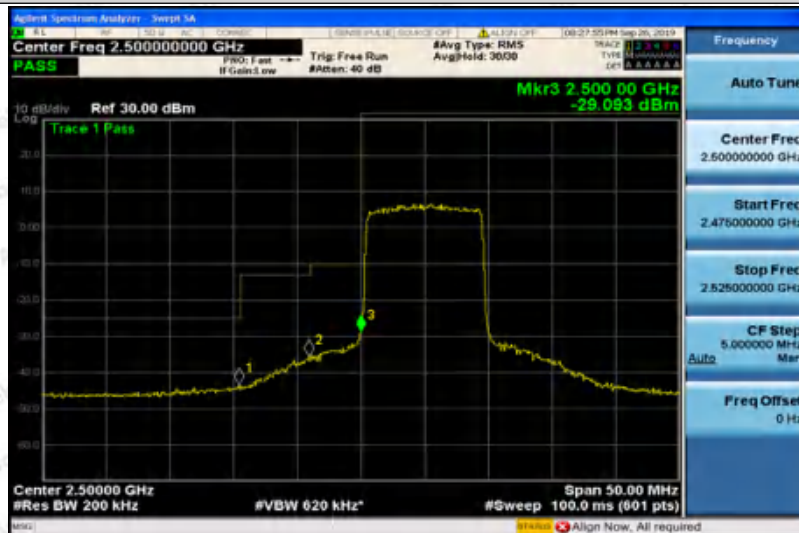
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Band7-10MHz-QPSK-21400-50RB#0



Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21400-50RB#0



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Band7-15MHz-QPSK-21375-75RB#0



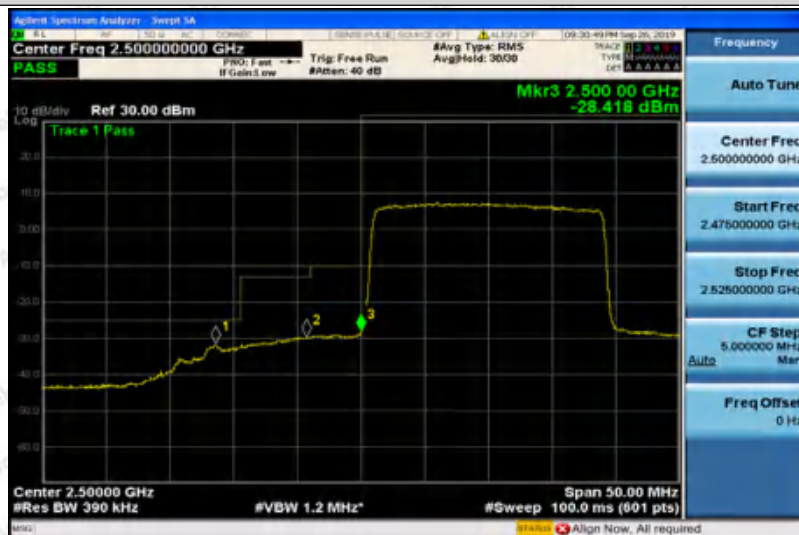
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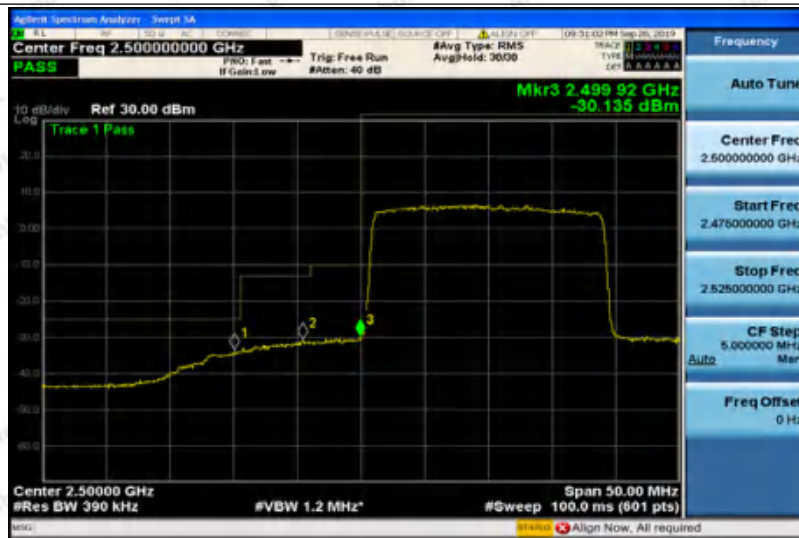
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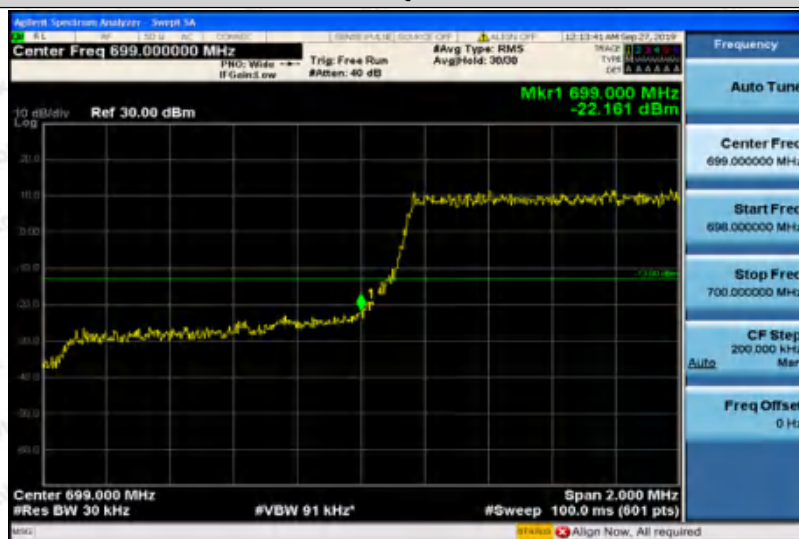
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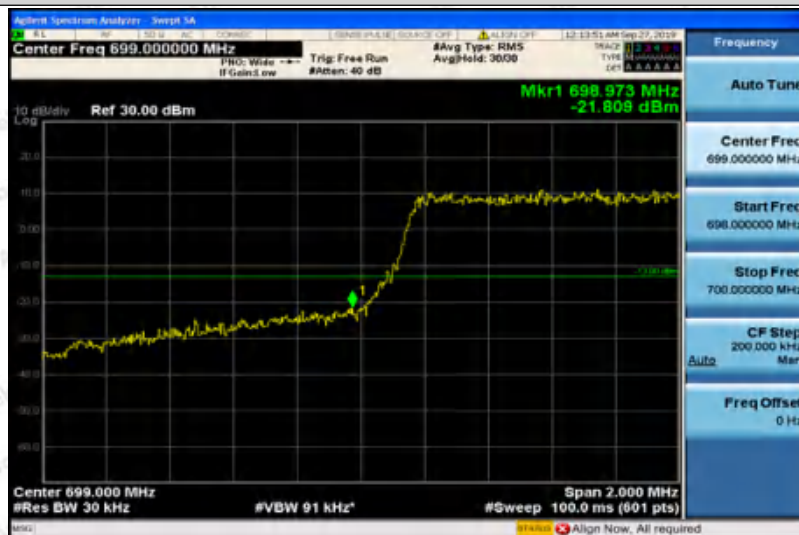
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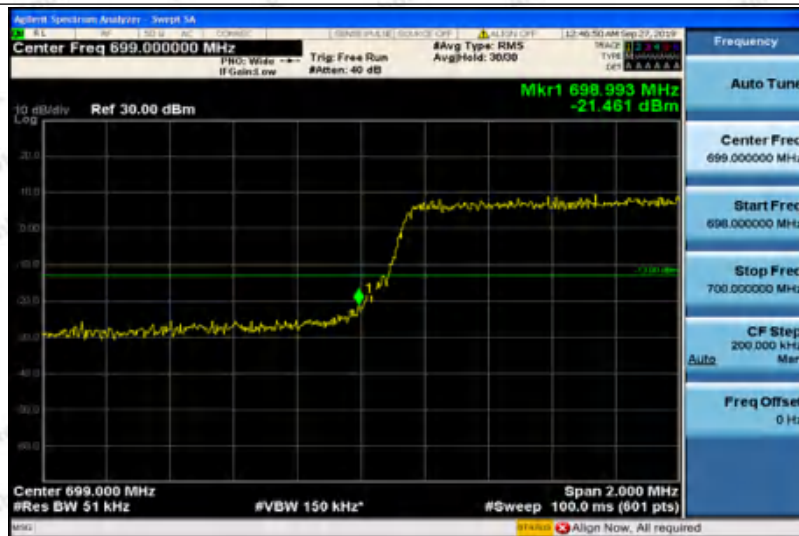
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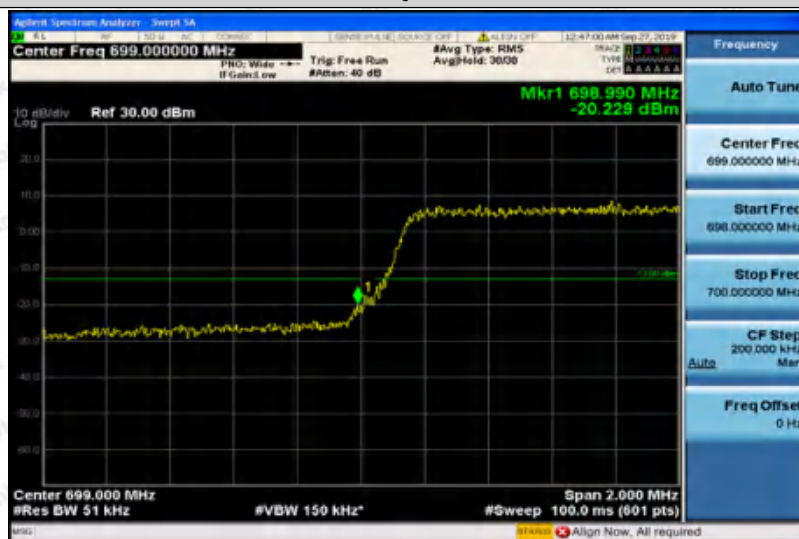
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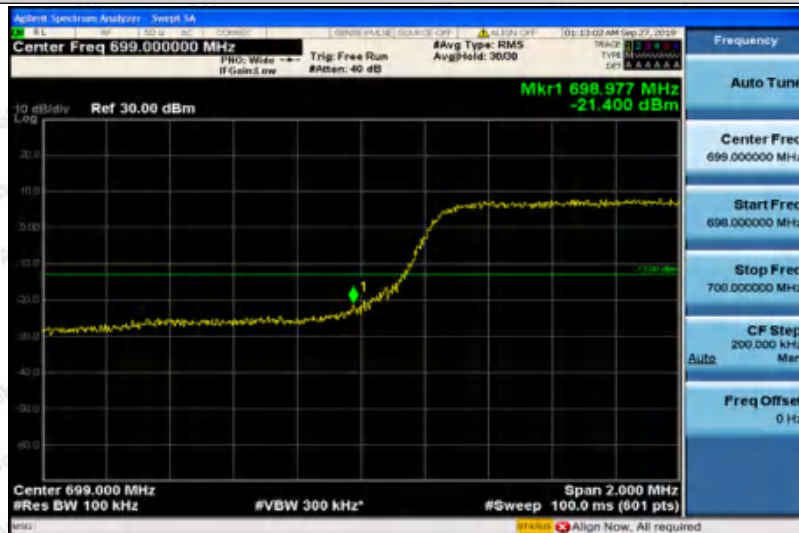
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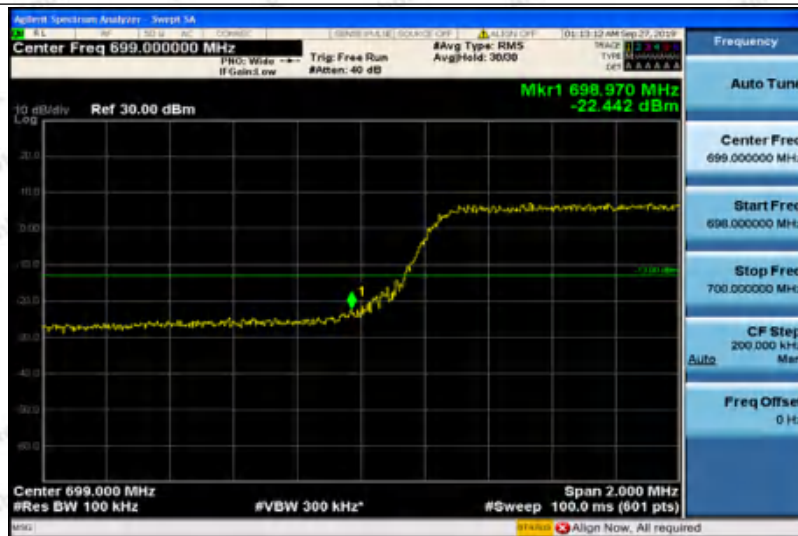
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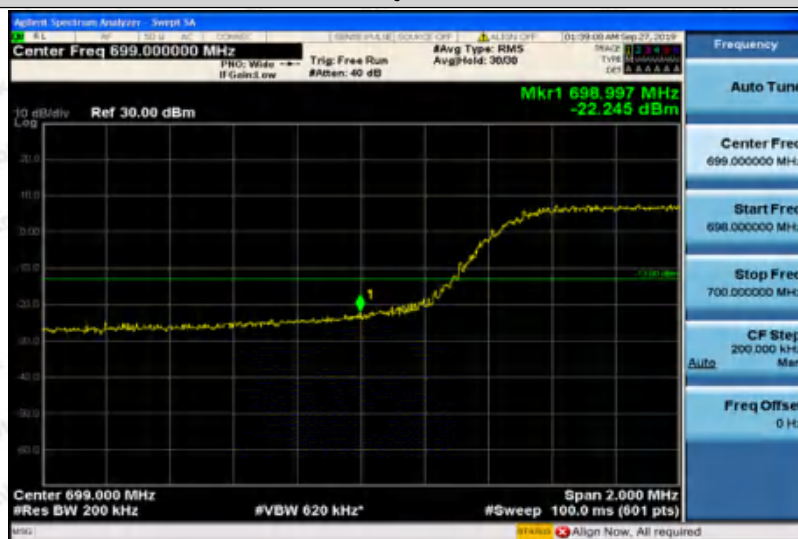
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Band12-5MHz-16QAM-23155-25RB#0



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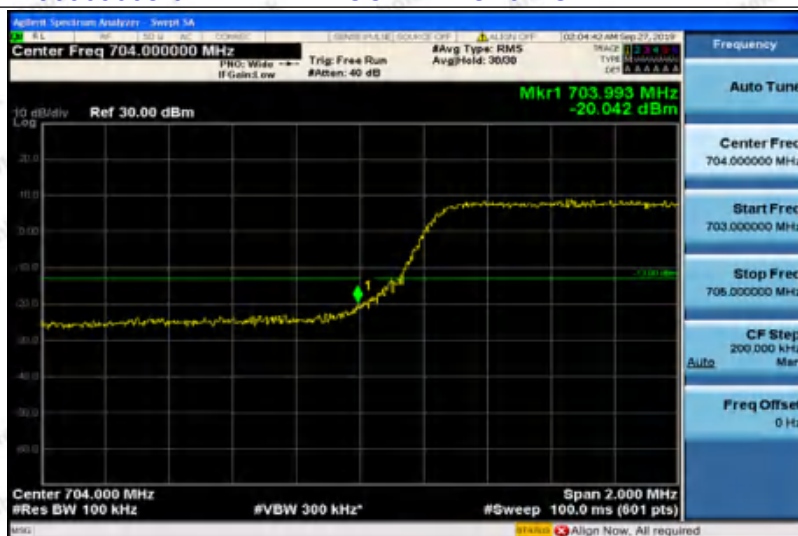
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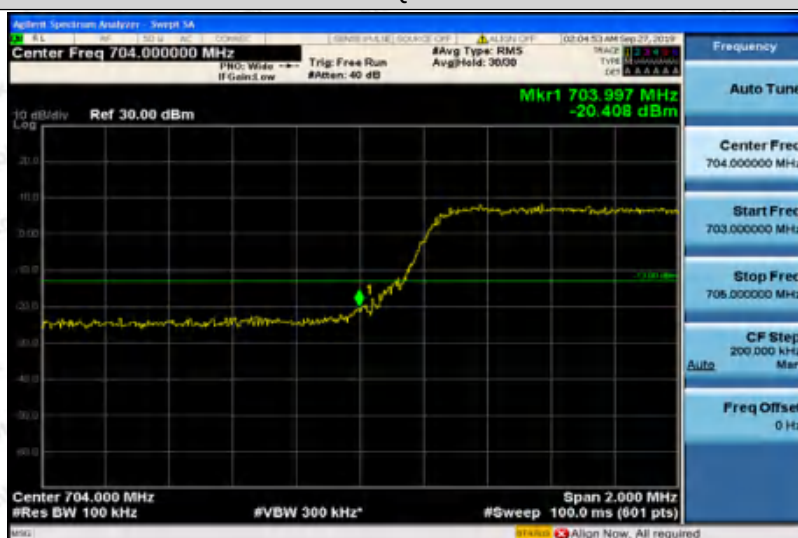
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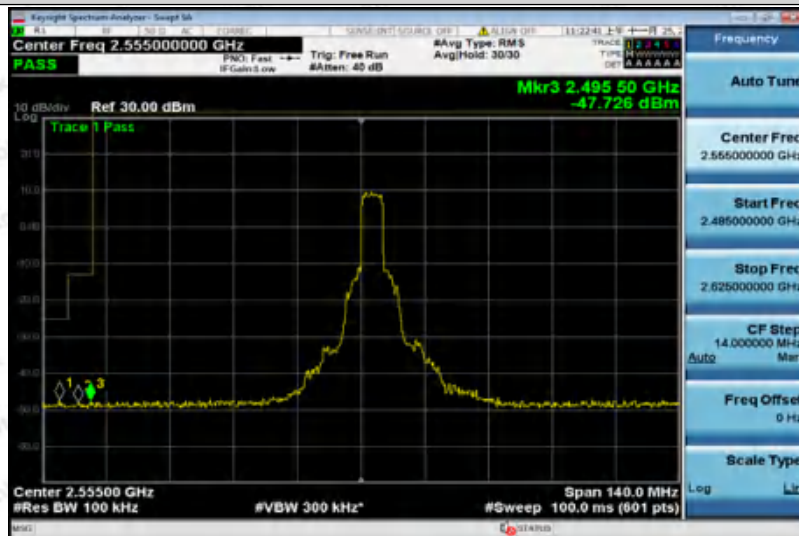
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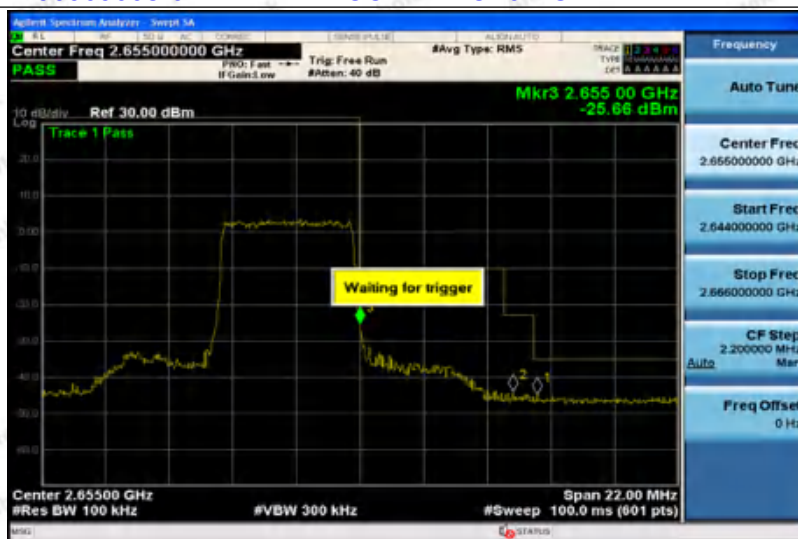
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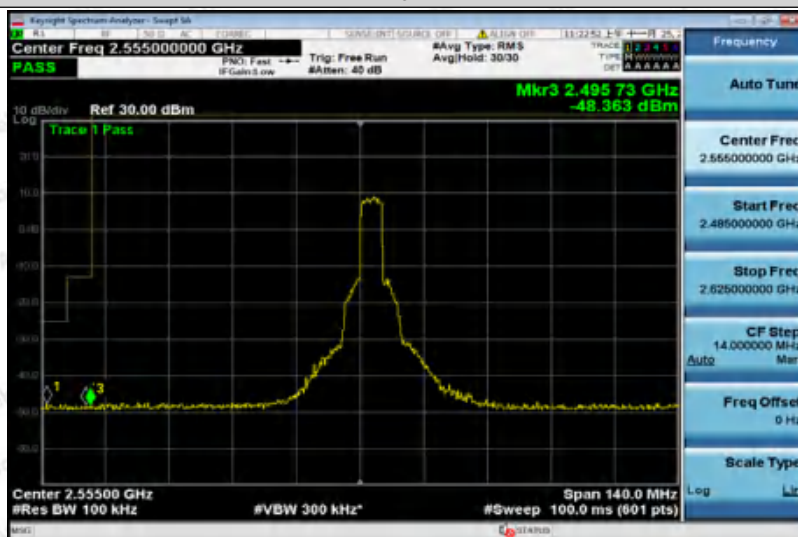
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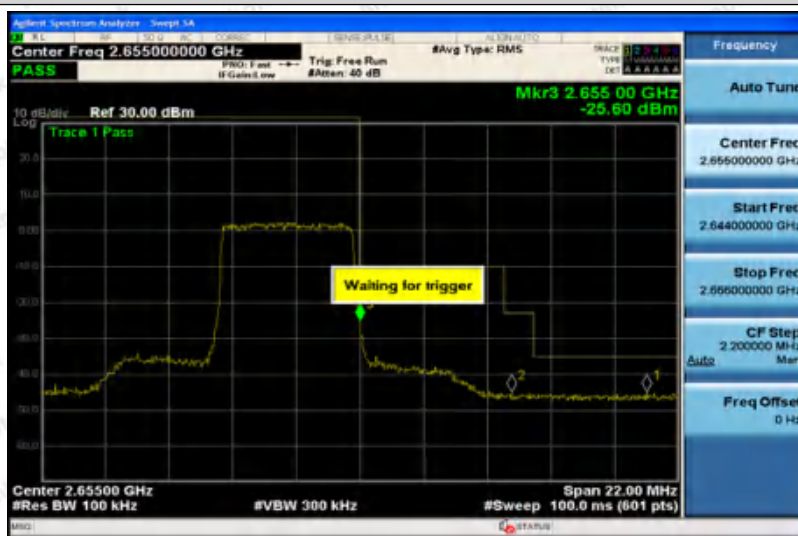
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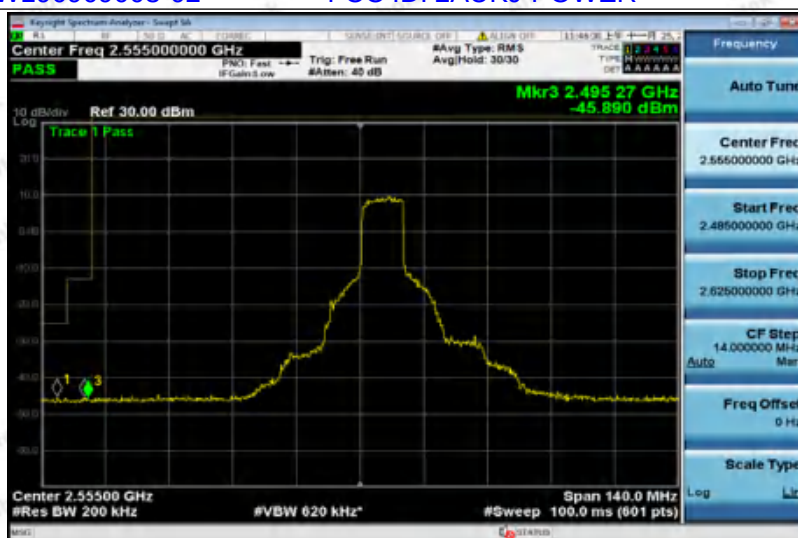
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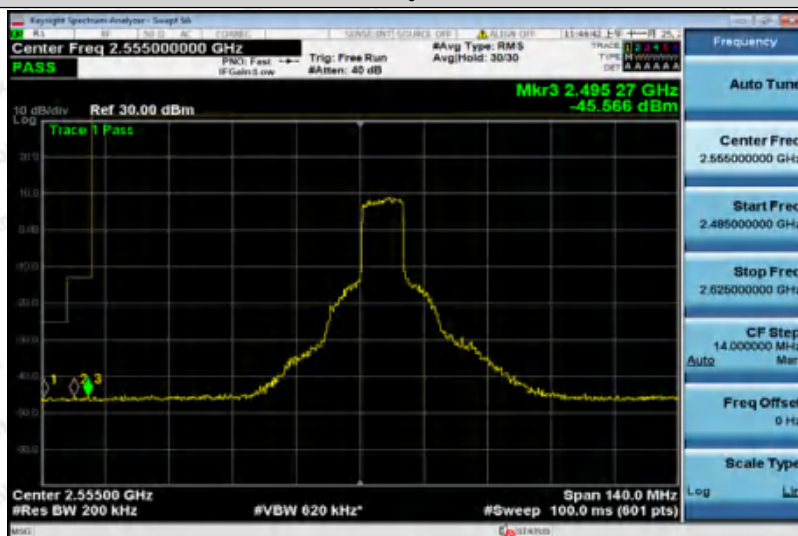
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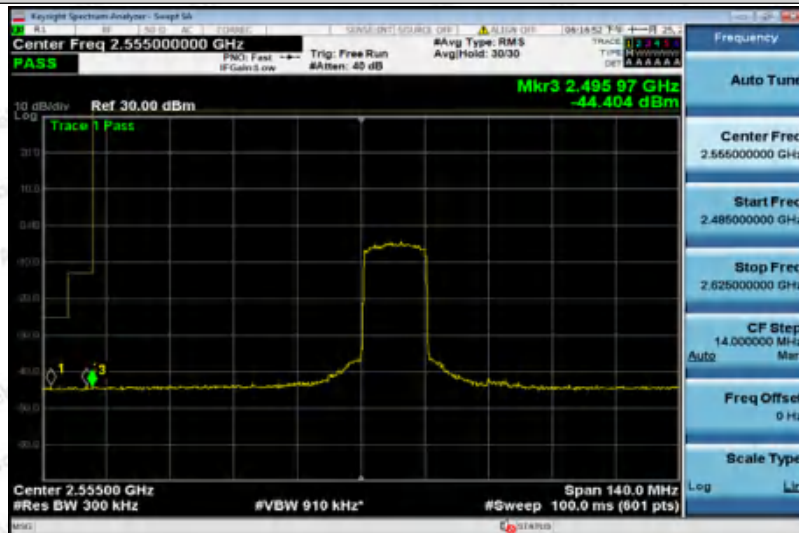
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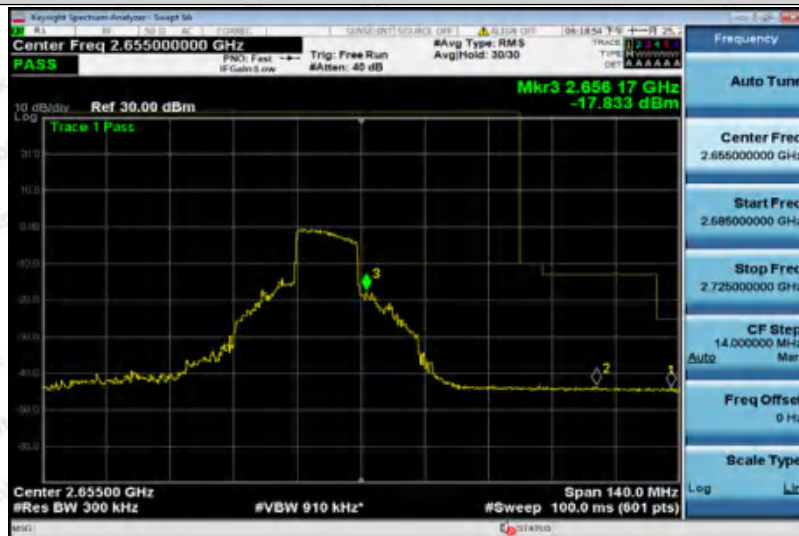
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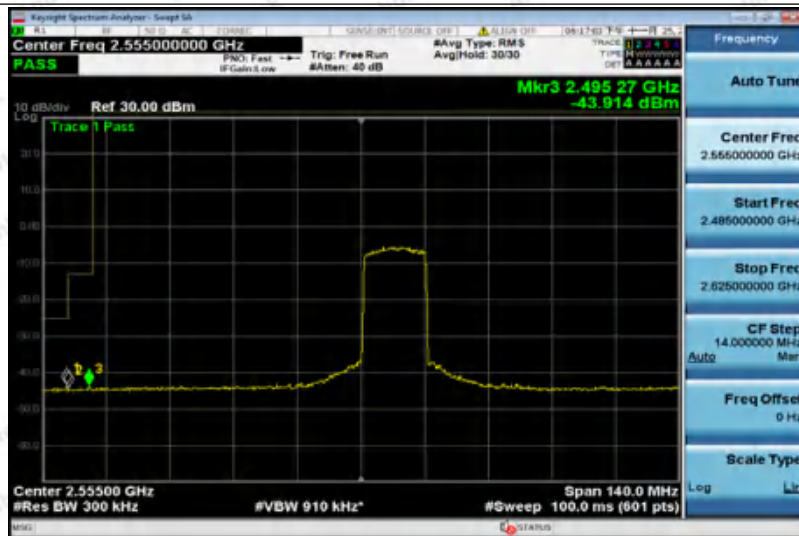
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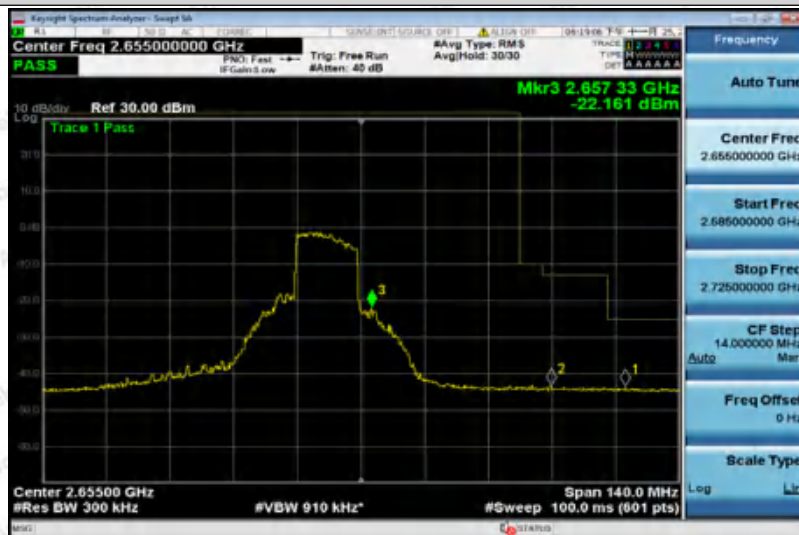
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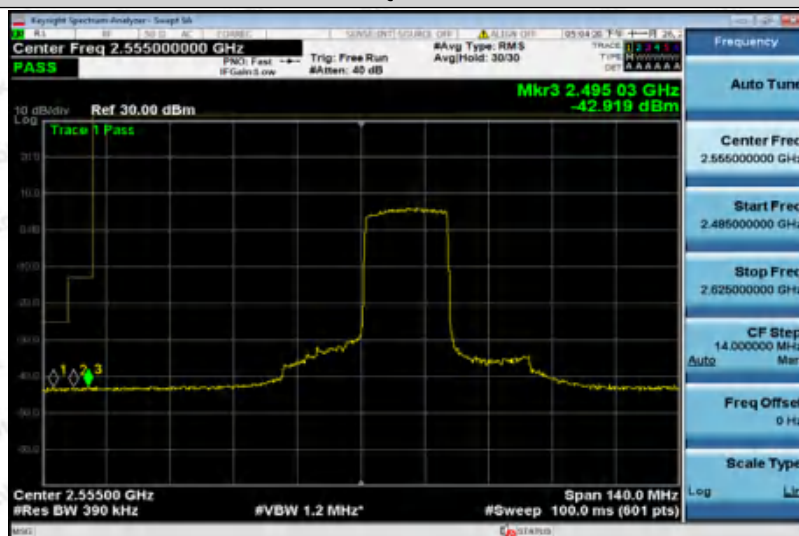
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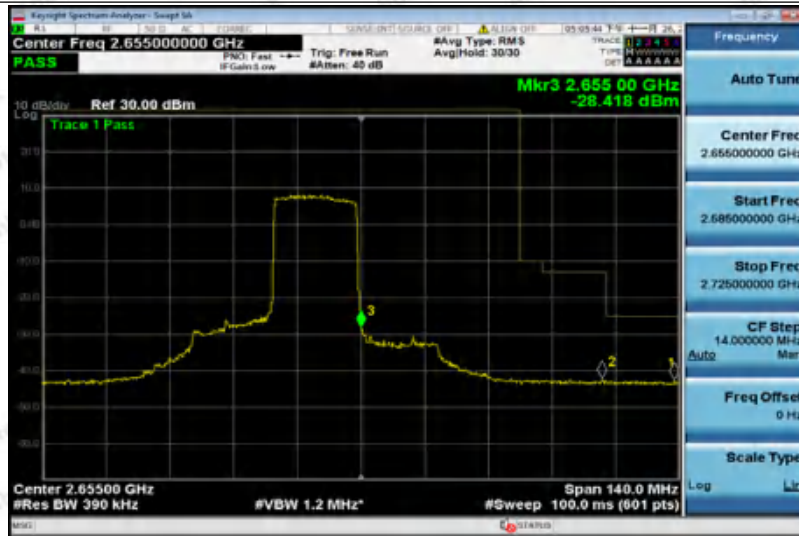
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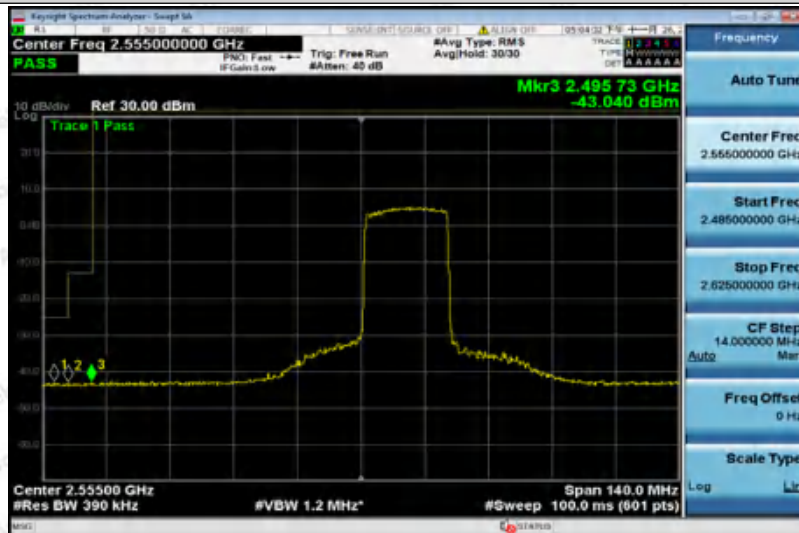
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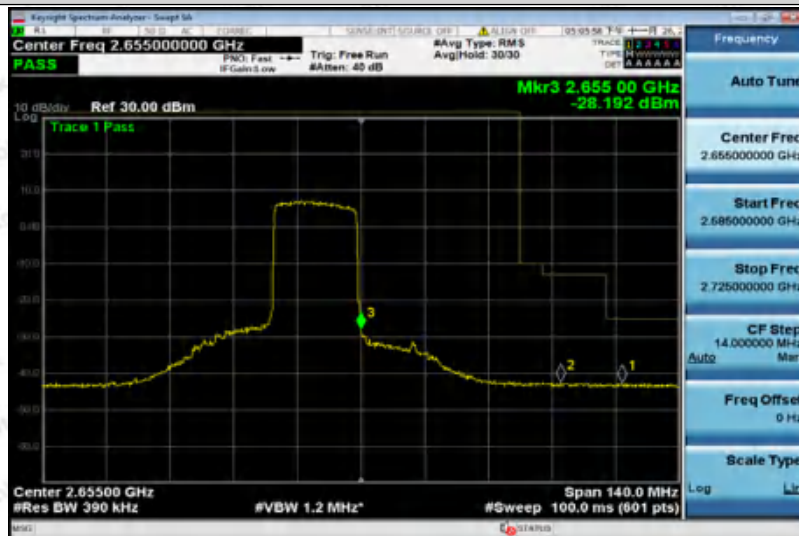
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10. Frequency Stability

10.1. Test Standard and Limit

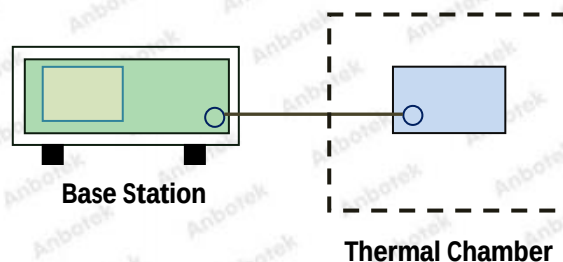
According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table below:

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized frequency block.

10.2. Test Setup



10.3. Test Procedure

A communication link was established between EUT and base station. The frequency error was monitored and measured by base station under variation of ambient temperature and variation of primary supply voltage.

Limit: The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

10.4. Test Data

Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com



Hotline

400-003-0500

www.anbotech.com

GPRS 850 Test Frequency: 836.6MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	15	0.0179	2.5
-20		5	0.0060	2.5
-10		16	0.0191	2.5
0		8	0.0096	2.5
10		9	0.0108	2.5
20		4	0.0048	2.5
30		10	0.0120	2.5
40		5	0.0060	2.5
50		16	0.0191	2.5
20	3.4	5	0.0060	2.5
20	4.2	7	0.0084	2.5

EGPRS 850 Test Frequency: 836.6MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	11	0.0131	2.5
-20		12	0.0143	2.5
-10		12	0.0143	2.5
0		16	0.0191	2.5
10		13	0.0155	2.5
20		12	0.0143	2.5
30		15	0.0179	2.5
40		14	0.0167	2.5
50		13	0.0155	2.5
20	3.4	11	0.0131	2.5
20	4.2	11	0.0131	2.5

GPRS 1900 Test Frequency: 1880MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-5	-0.0027	2.5
-20		-9	-0.0048	2.5
-10		-12	-0.0064	2.5
0		-2	-0.0011	2.5
10		-11	-0.0059	2.5
20		-8	-0.0043	2.5
30		-1	-0.0005	2.5
40		-1	-0.0005	2.5
50		-3	-0.0016	2.5
20	3.4	-1	-0.0005	2.5
20	4.2	-3	-0.0016	2.5

EGPRS 1900 Test Frequency: 1880MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-1	-0.0005	2.5
-20		-6	-0.0032	2.5
-10		-1	-0.0005	2.5
0		-3	-0.0016	2.5
10		0	0.0000	2.5
20		-2	-0.0011	2.5
30		2	0.0011	2.5
40		0	0.0000	2.5
50		2	0.0011	2.5
20	3.4	-1	-0.0005	2.5
20	4.2	-2	-0.0011	2.5

WCDMA Band V Test Frequency: 836.4MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	5	0.0060	2.5
-20		-1	-0.0012	2.5
-10		0	0.0000	2.5
0		5	0.0060	2.5
10		2	0.0024	2.5
20		2	0.0024	2.5
30		-1	-0.0012	2.5
40		-2	-0.0024	2.5
50		1	0.0012	2.5
20	3.4	-1	-0.0012	2.5
20	4.2	-4	-0.0048	2.5

WCDMA Band II Test Frequency: 1880MHz				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-1	-0.0005	2.5
-20		5	0.0027	2.5
-10		3	0.0016	2.5
0		-2	-0.0011	2.5
10		-4	-0.0021	2.5
20		-2	-0.0011	2.5
30		5	0.0027	2.5
40		3	0.0016	2.5
50		5	0.0027	2.5
20	3.4	-6	-0.0032	2.5
20	4.2	-2	-0.0011	2.5

LTE Band II Test Frequency: 1880MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-4	-0.0021	2.5
-20		-6	-0.0032	2.5
-10		-6	-0.0032	2.5
0		-4	-0.0021	2.5
10		-6	-0.0032	2.5
20		-3	-0.0016	2.5
30		5	0.0027	2.5
40		5	0.0027	2.5
50		-2	-0.0011	2.5
20	3.4	-7	-0.0037	2.5
20	4.2	-6	-0.0032	2.5

LTE Band II Test Frequency: 1880MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-6	-0.0032	2.5
-20		-9	-0.0048	2.5
-10		-6	-0.0032	2.5
0		-9	-0.0048	2.5
10		-5	-0.0027	2.5
20		-8	-0.0043	2.5
30		5	0.0027	2.5
40		-7	-0.0037	2.5
50		-6	-0.0032	2.5
20	3.4	-4	-0.0021	2.5
20	4.2	-5	-0.0027	2.5

LTE Band IV Test Frequency:1732.5MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	7	0.0040	2.5
-20		6	0.0035	2.5
-10		-1	-0.0006	2.5
0		-3	-0.0017	2.5
10		-4	-0.0023	2.5
20		-3	-0.0017	2.5
30		-6	-0.0035	2.5
40		-6	-0.0035	2.5
50		-4	-0.0023	2.5
20	3.4	-5	-0.0029	2.5
20	4.2	-2	-0.0012	2.5

LTE Band IV Test Frequency:1732.5MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	6	0.0035	2.5
-20		5	0.0029	2.5
-10		-4	-0.0023	2.5
0		-5	-0.0029	2.5
10		-5	-0.0029	2.5
20		-5	-0.0029	2.5
30		-6	-0.0035	2.5
40		-8	-0.0046	2.5
50		-5	-0.0029	2.5
20	3.4	-5	-0.0029	2.5
20	4.2	-7	-0.0040	2.5

LTE Band V Test Frequency:836.5MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-7	-0.0084	2.5
-20		5	0.0060	2.5
-10		9	0.0108	2.5
0		4	0.0048	2.5
10		9	0.0108	2.5
20		-6	-0.0072	2.5
30		2	0.0024	2.5
40		-2	-0.0024	2.5
50		-7	-0.0084	2.5
20	3.4	-1	-0.0012	2.5
20	4.2	-4	-0.0048	2.5

LTE Band V Test Frequency:836.5MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	8	0.0096	2.5
-20		5	0.0060	2.5
-10		-7	-0.0084	2.5
0		-5	-0.0060	2.5
10		-1	-0.0012	2.5
20		-6	-0.0072	2.5
30		-6	-0.0072	2.5
40		-7	-0.0084	2.5
50		-2	-0.0024	2.5
20	3.4	-3	-0.0036	2.5
20	4.2	6	0.0072	2.5

LTE Band VII Test Frequency:2535MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-6	-0.0024	2.5
-20		5	0.0020	2.5
-10		8	0.0032	2.5
0		6	0.0024	2.5
10		6	0.0024	2.5
20		-3	-0.0012	2.5
30		3	0.0012	2.5
40		-6	-0.0024	2.5
50		-7	-0.0028	2.5
20	3.4	-4	-0.0016	2.5
20	4.2	-3	-0.0012	2.5

LTE Band VII Test Frequency:2535MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	5	0.0020	2.5
-20		6	0.0024	2.5
-10		-3	-0.0012	2.5
0		-4	-0.0016	2.5
10		-4	-0.0016	2.5
20		-5	-0.0020	2.5
30		-7	-0.0028	2.5
40		-6	-0.0024	2.5
50		-5	-0.0020	2.5
20	3.4	-5	-0.0020	2.5
20	4.2	-5	-0.0020	2.5

LTE Band12 Test Frequency:707.5MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-8	-0.0113	2.5
-20		6	0.0085	2.5
-10		7	0.0099	2.5
0		4	0.0057	2.5
10		9	0.0127	2.5
20		-4	-0.0057	2.5
30		7	0.0099	2.5
40		-2	-0.0028	2.5
50		-6	-0.0085	2.5
20	3.4	-4	-0.0057	2.5
20	4.2	-2	-0.0028	2.5

LTE Band12 Test Frequency:707.5MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	8	0.0113	2.5
-20		6	0.0085	2.5
-10		-3	-0.0042	2.5
0		-2	-0.0028	2.5
10		-1	-0.0014	2.5
20		-6	-0.0085	2.5
30		-5	-0.0071	2.5
40		-4	-0.0057	2.5
50		-7	-0.0099	2.5
20	3.4	-5	-0.0071	2.5
20	4.2	-4	-0.0057	2.5

LTE Band 17 Test Frequency:710MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-8	-0.0113	2.5
-20		7	0.0099	2.5
-10		5	0.0070	2.5
0		8	0.0113	2.5
10		9	0.0127	2.5
20		-1	-0.0014	2.5
30		7	0.0099	2.5
40		-5	-0.0070	2.5
50		-6	-0.0085	2.5
20	3.4	-3	-0.0042	2.5
20	4.2	-2	-0.0028	2.5

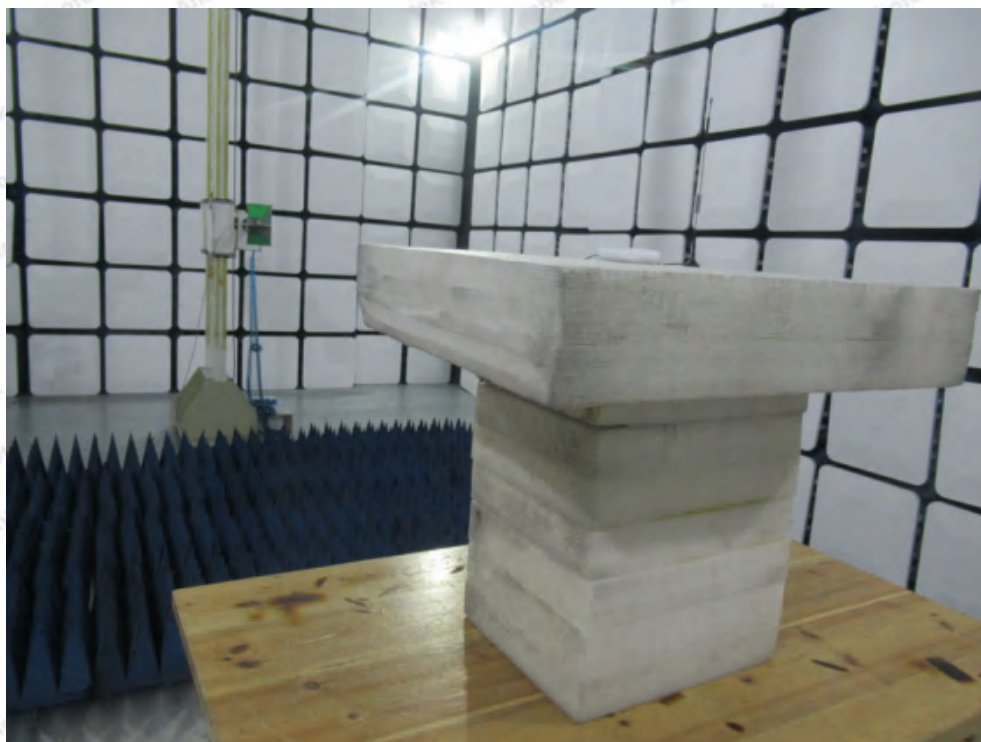
LTE Band 17 Test Frequency:710MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	7	0.0024	2.5
-20		6	0.0020	2.5
-10		-4	-0.0012	2.5
0		-3	-0.0012	2.5
10		-7	-0.0016	2.5
20		-6	-0.0020	2.5
30		-4	-0.0028	2.5
40		-8	-0.0024	2.5
50		-6	-0.0016	2.5
20	3.4	-4	-0.0020	2.5
20	4.2	-5	-0.0024	2.5

LTE Band 41 Test Frequency:2600MHz(QPSK)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	-6	-0.0023	2.5
-20		6	0.0023	2.5
-10		7	0.0027	2.5
0		7	0.0027	2.5
10		6	0.0023	2.5
20		-3	-0.0012	2.5
30		3	0.0012	2.5
40		-6	-0.0023	2.5
50		-7	-0.0027	2.5
20	3.4	-4	-0.0015	2.5
20	4.2	-3	-0.0012	2.5

LTE Band 41 Test Frequency:2600MHz(16QAM)				
Temperature(℃)	Power Supply (V ^{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-30	3.8	5	0.0019	2.5
-20		6	0.0023	2.5
-10		-3	-0.0012	2.5
0		-3	-0.0012	2.5
10		-5	-0.0019	2.5
20		-5	-0.0019	2.5
30		-6	-0.0023	2.5
40		-6	-0.0023	2.5
50		-5	-0.0019	2.5
20	3.4	-6	-0.0023	2.5
20	4.2	-6	-0.0023	2.5

APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Radiation Emission Test



Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



Hotline

400-003-0500

www.anbotek.com

APPENDIX II -- PHOTOGRAPH

Reference to the test report SZAWW190909003-01

----- End of Report -----

Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com



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400-003-0500

www.anbotech.com