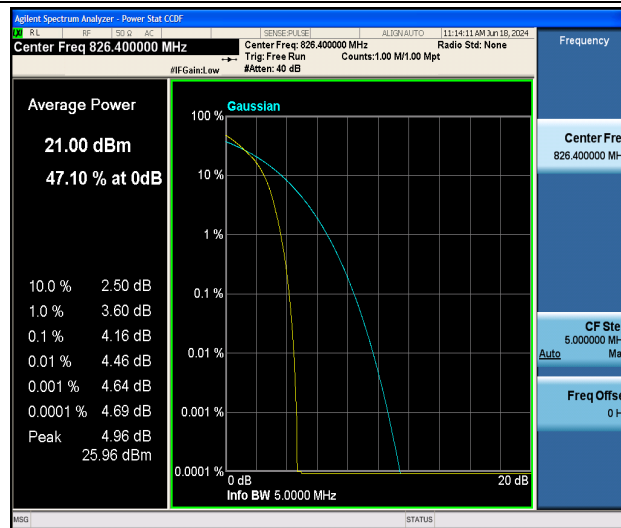
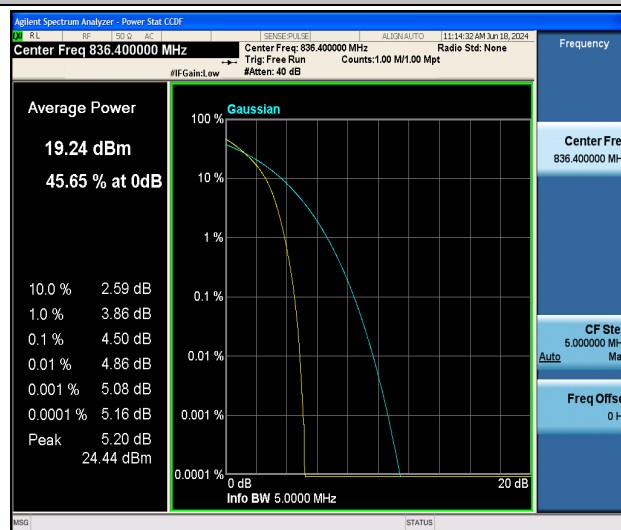
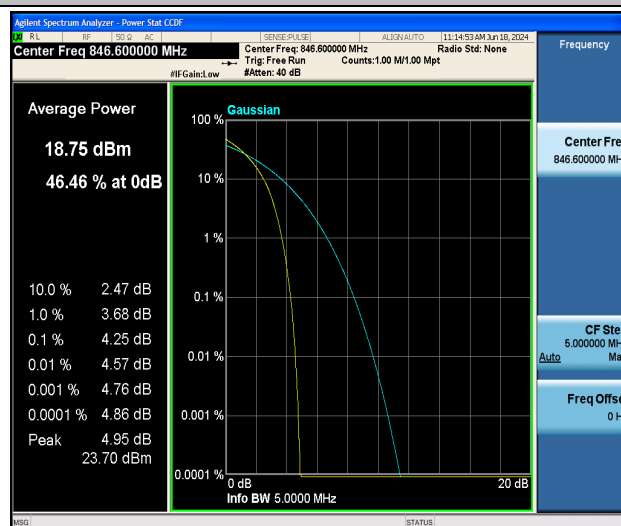




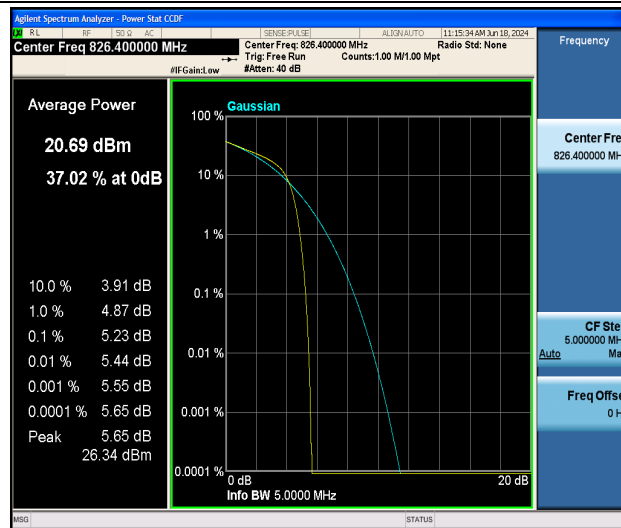
Band5-4132-1-PASS



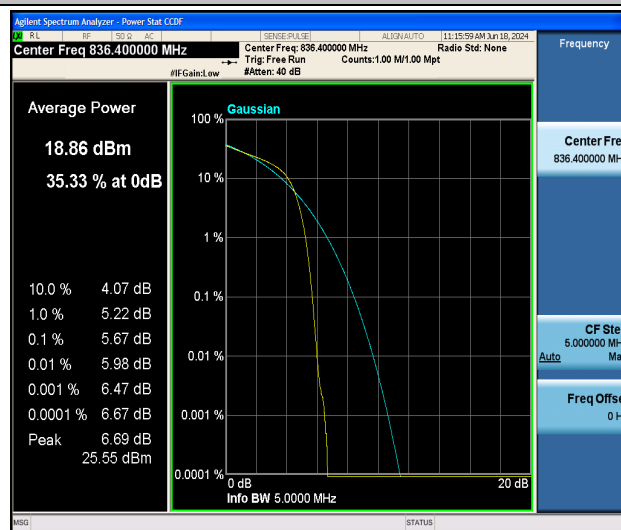
Band5-4182-1-PASS



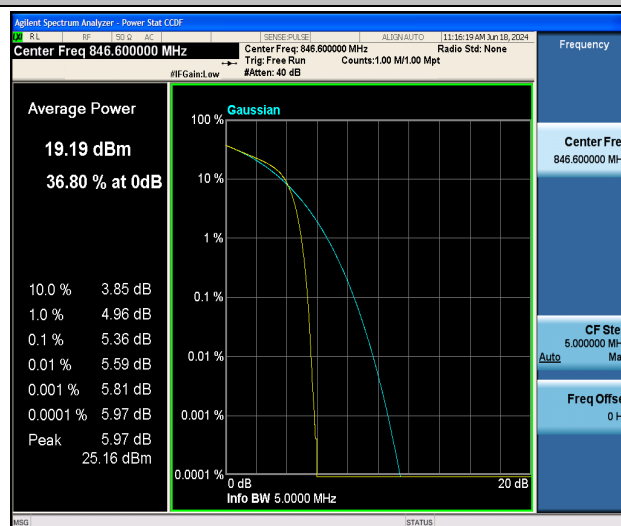
Band5-4233-1-PASS



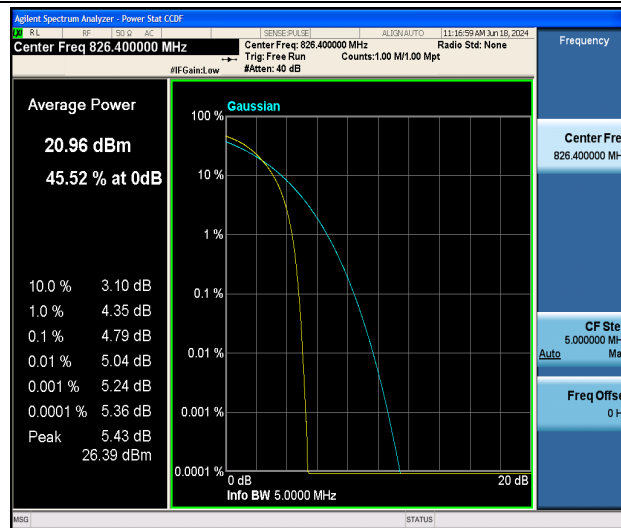
Band5-4132-2-PASS



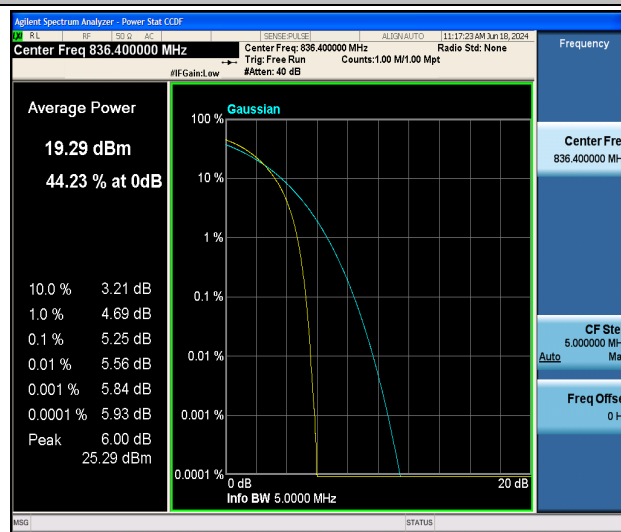
Band5-4182-2-PASS



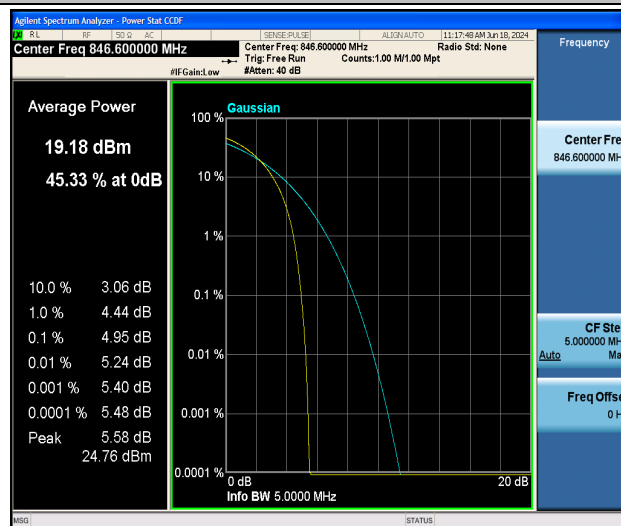
Band5-4233-2-PASS



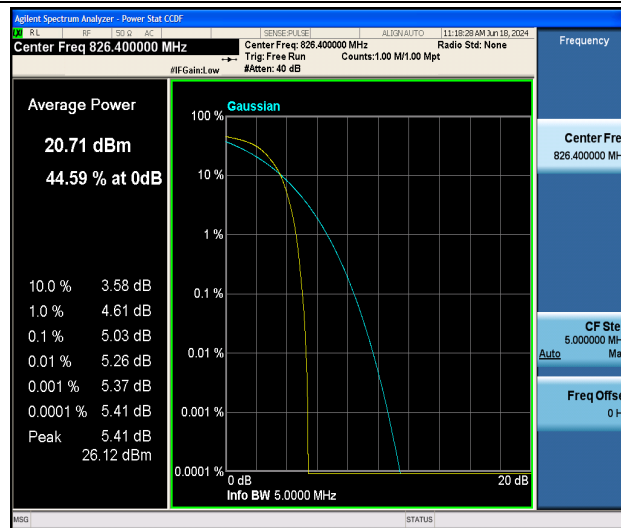
Band5-4132-3-PASS



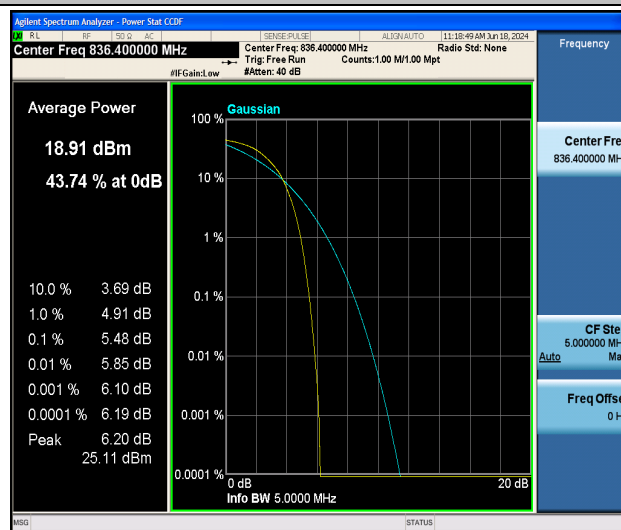
Band5-4182-3-PASS



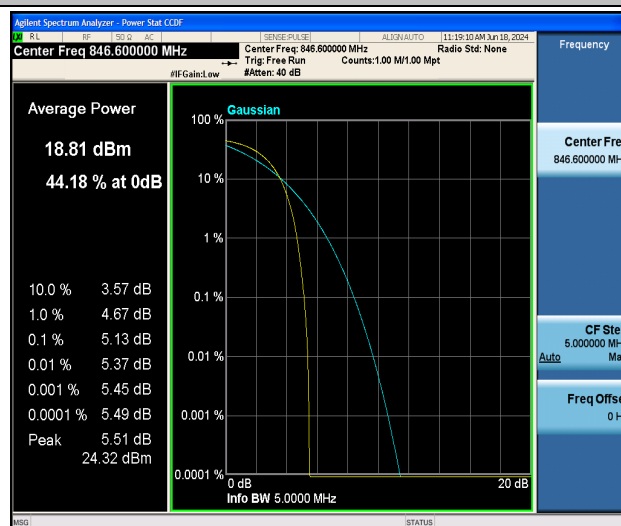
Band5-4233-3-PASS



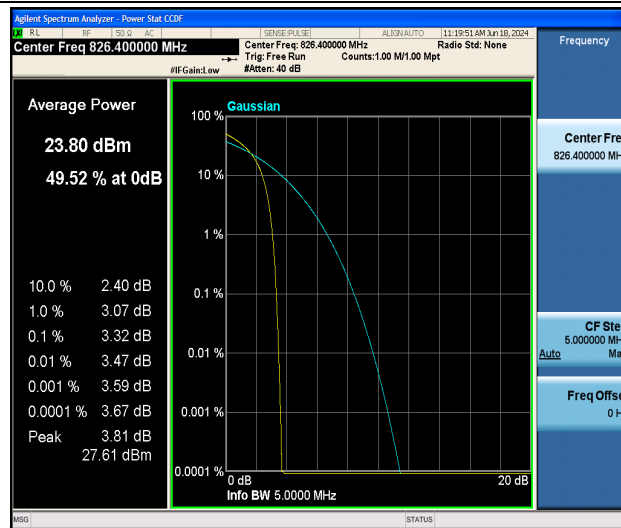
Band5-4132-4-PASS



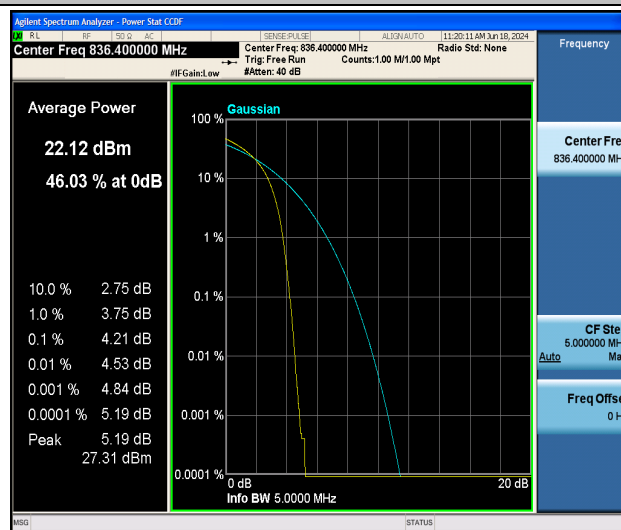
Band5-4182-4-PASS



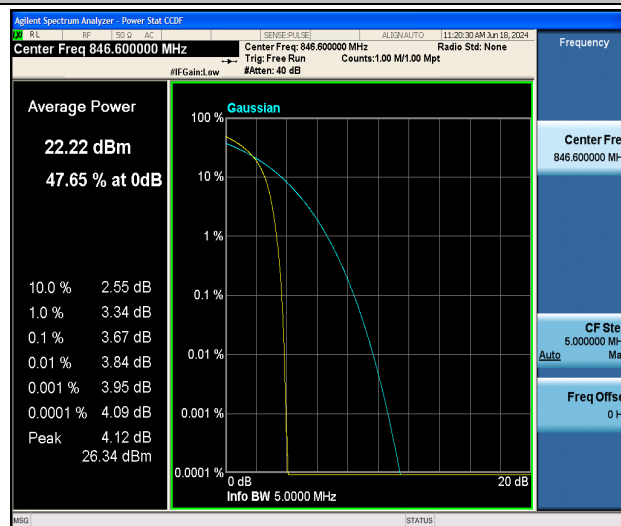
Band5-4233-4-PASS



Band5-4132-5-PASS



Band5-4182-5-PASS



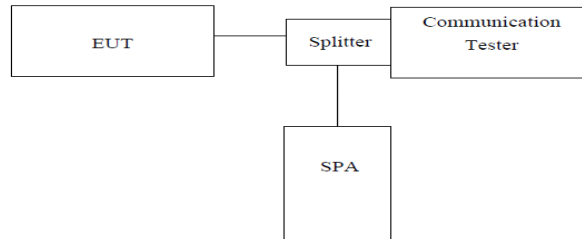
Band5-4233-5-PASS

3.3. Occupy Bandwidth

LIMIT

For reporting purposes only.

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

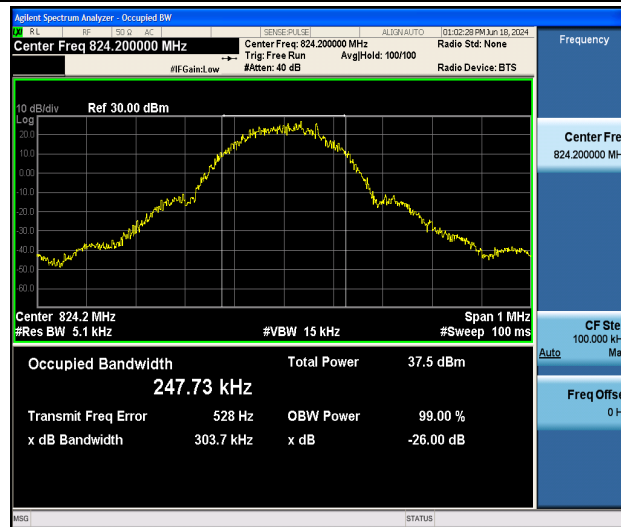
TEST PROCEDURE

1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer
2. RBW was set to about 1% of emission BW, $VBW \geq 3$ times RBW.
3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

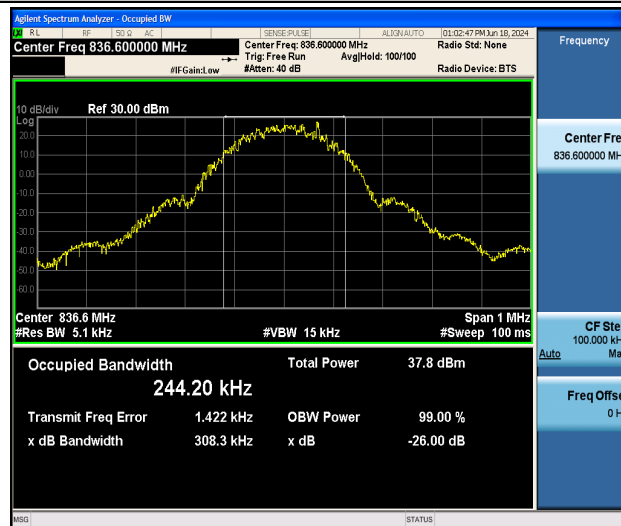
TEST RESULTS



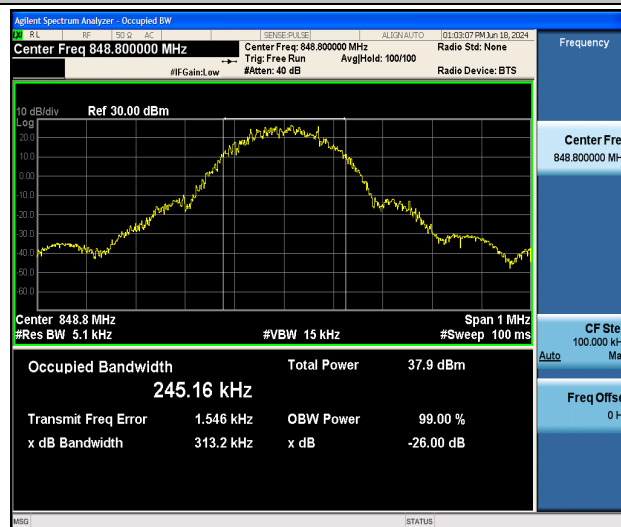
EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (MHz)	-26dB bandwidth (MHz)
GSM 850 (GPRS)	128	824.20	0.24773	0.3037
	190	836.60	0.24420	0.3083
	251	848.80	0.24516	0.3132
EGPRS850 (8PSK,1Slot)	128	824.20	0.25628	0.3303
	190	836.60	0.25521	0.3397
	251	848.80	0.25691	0.3138
PCS1900 (GPRS)	512	1850.20	0.24022	0.3111
	661	1880.00	0.24500	0.3099
	810	1909.80	0.24059	0.3006
EGPRS1900 (8PSK,1Slot)	512	1850.20	0.25026	0.3195
	661	1880.00	0.24985	0.3081
	810	1909.80	0.24944	0.3100
WCDMA Band II (QPSK)	9262	1852.40	4.1455	4.672
	9400	1880.00	4.1448	4.666
	9538	1907.60	4.1385	4.660
WCDMA Band IV (QPSK)	1312	1712.40	4.1423	4.667
	1413	1732.60	4.1433	4.674
	1513	1752.60	4.1448	4.659
WCDMA Band V (QPSK)	4132	826.40	4.1397	4.676
	4183	836.60	4.1558	4.671
	4233	846.60	4.1660	4.684



GPRS850-128-PASS



GPRS850-190-PASS



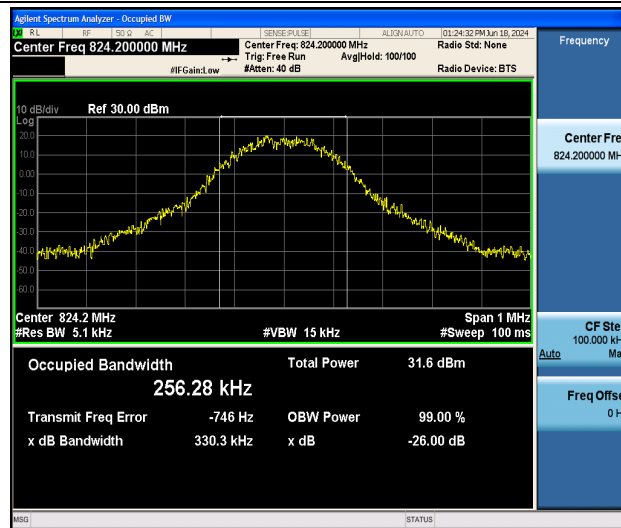
GPRS850-251-PASS

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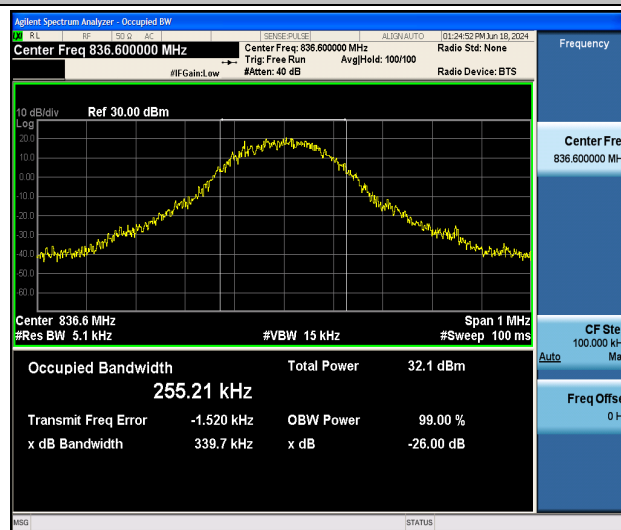
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



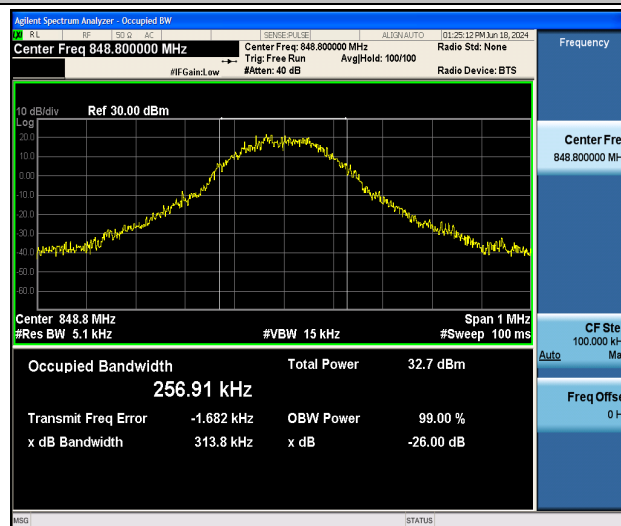
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EGPRS850-128-PASS



EGPRS850-190-PASS



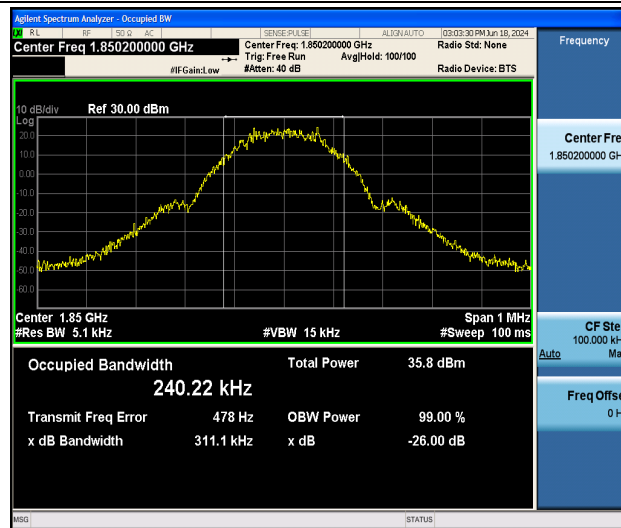
EGPRS850-251-PASS

CTC Laboratories, Inc.

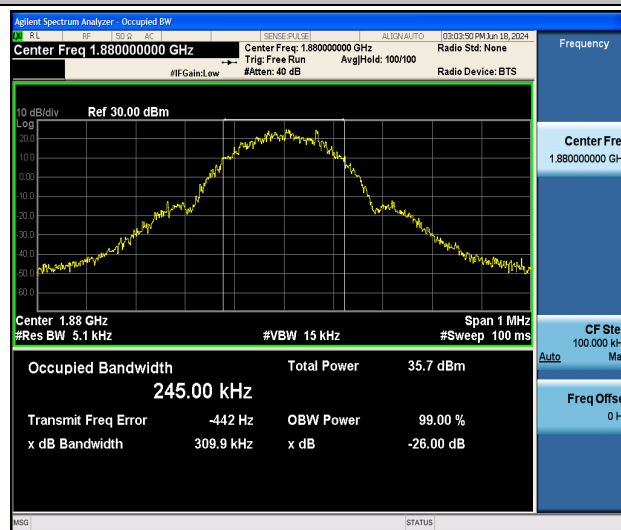
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059



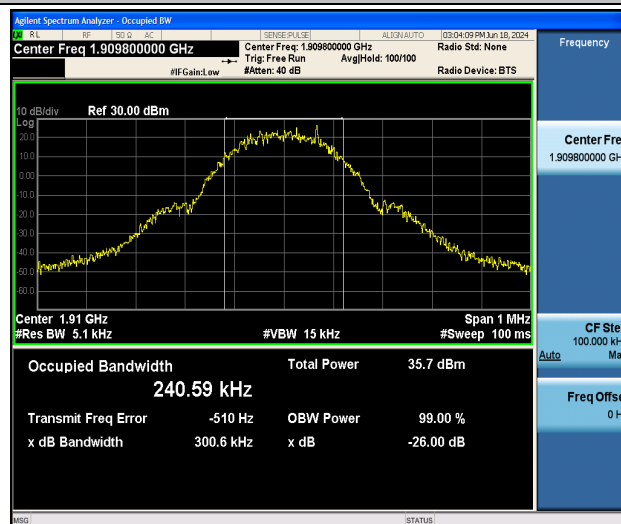
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GPRS1900-512-PASS



GPRS1900-661-PASS



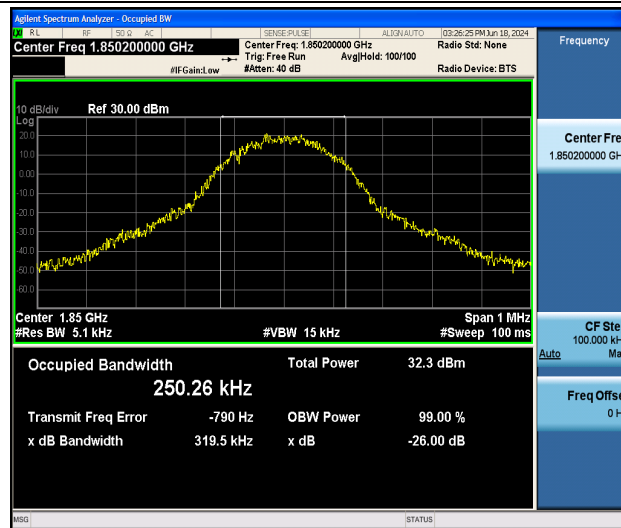
GPRS1900-810-PASS

CTC Laboratories, Inc.

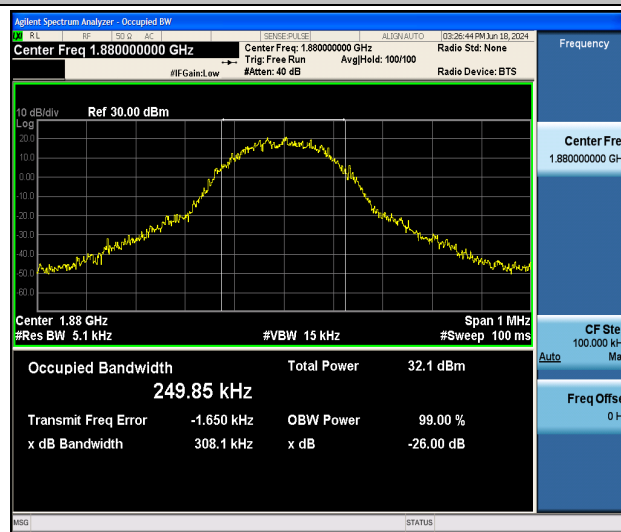
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059



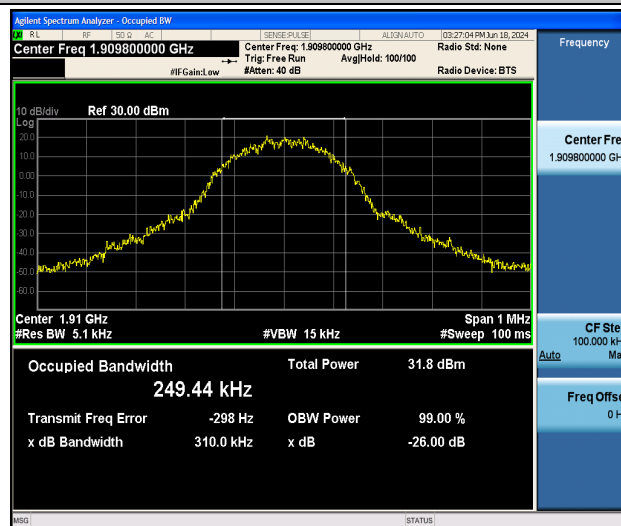
Fax: (86)755-27521011 Http://www.sz-ctc.org.cn
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EGPRS1900-512-PASS



EGPRS1900-661-PASS



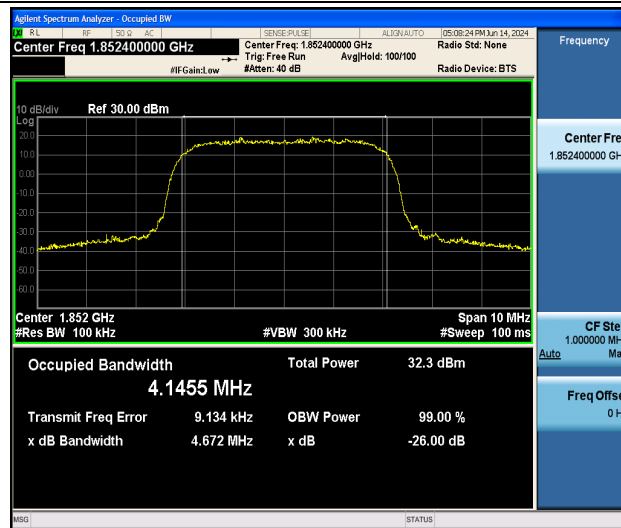
EGPRS1900-810-PASS

CTC Laboratories, Inc.

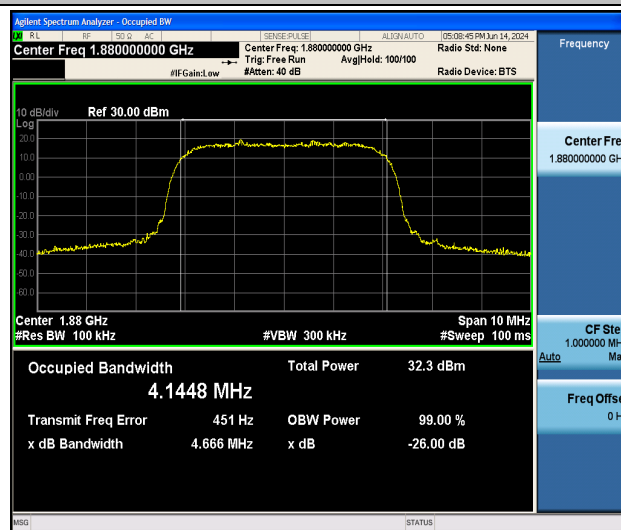
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059



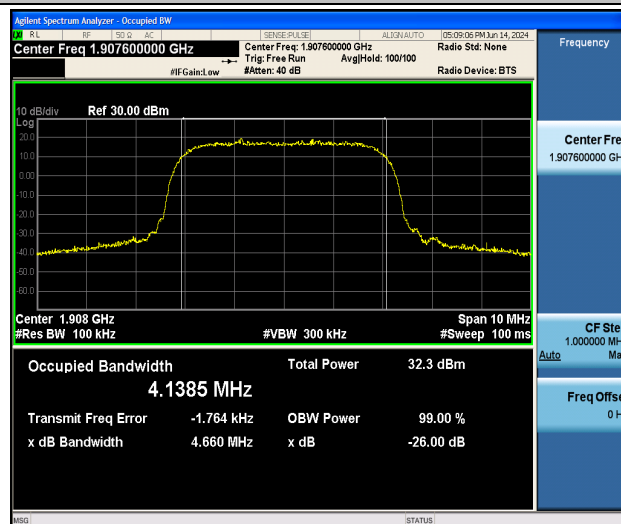
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Band2-9262-PASS



Band2-9400-PASS



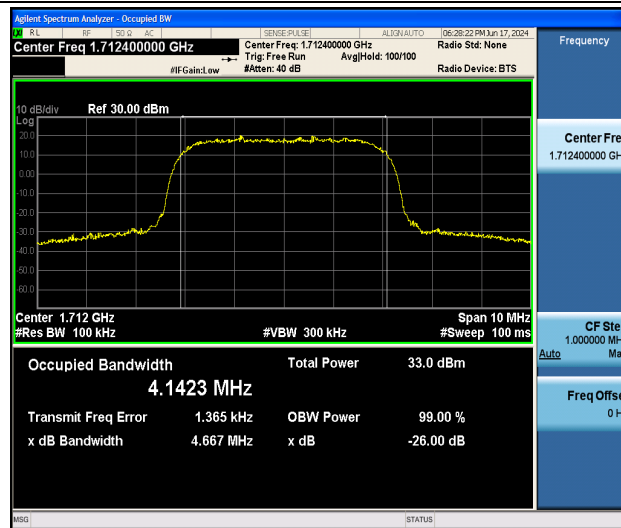
Band2-9538-PASS

CTC Laboratories, Inc.

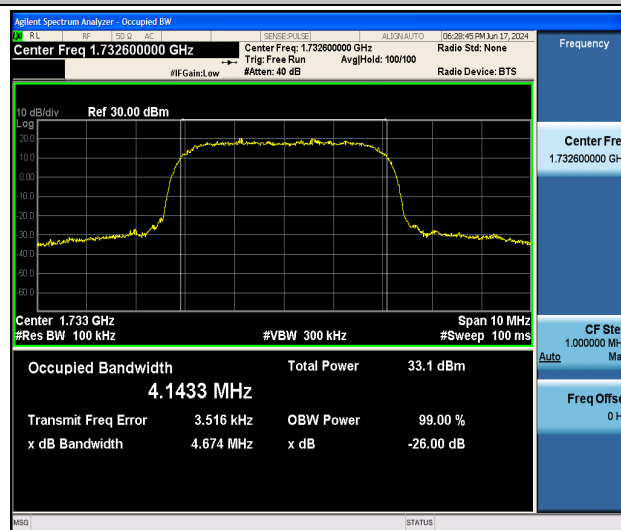
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059



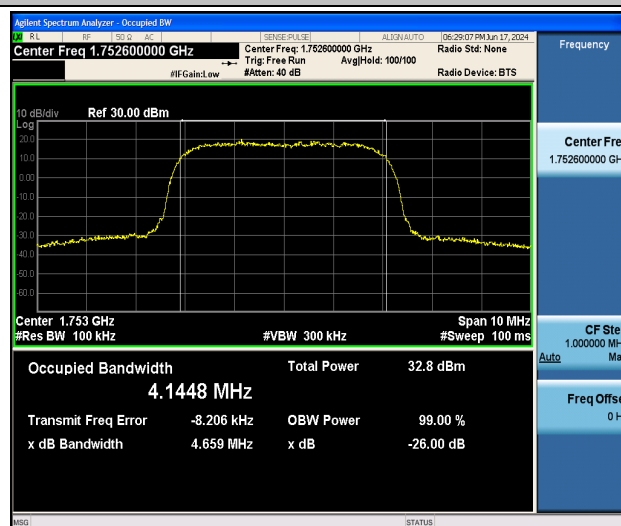
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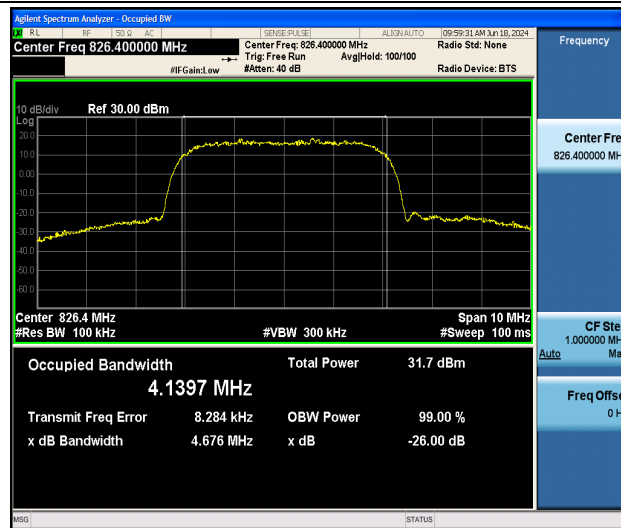
Band4-1312-PASS



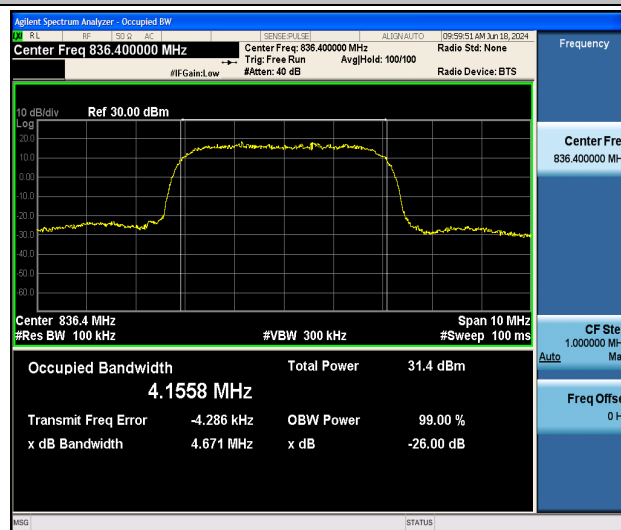
Band4-1413-PASS



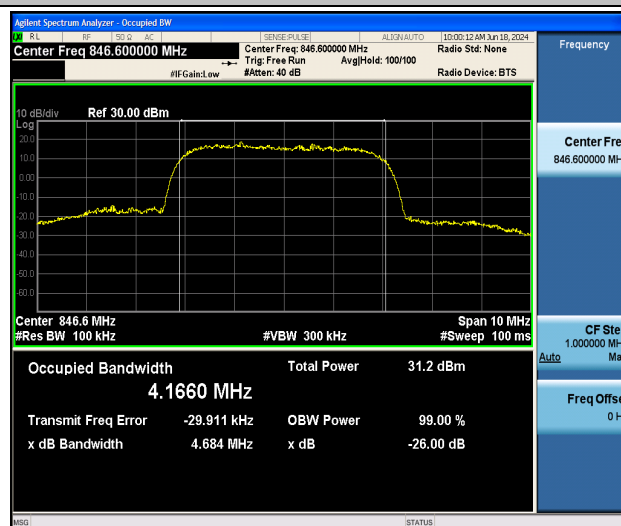
Band4-1513-PASS



Band5-4132-PASS



Band5-4182-PASS



Band5-4233-PASS

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3.4. Out Of Band Emissions

LIMIT

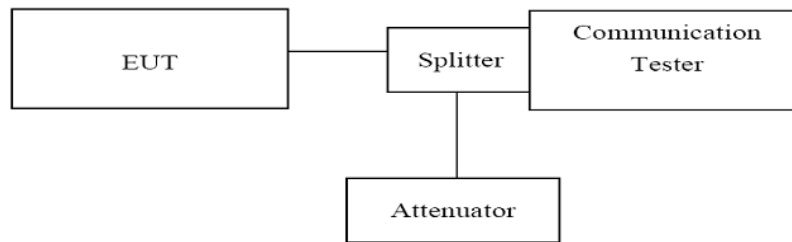
FCC: §22.917, §24.238, §27.53 (h), §90.691

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

RSS132§5.5, RSS133§6.5, RSS139§6.6

The minimum permissible attenuation level of any spurious emissions is $43 + 10 \log (P)$ dB where transmitting power (P) in Watts.

TEST CONFIGURATION



TEST PROCEDURE

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. Sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

TEST RESULTS

Remark: we test all modulation type and record worst case at Voice mode for WCDMA, GPRS for GSM.



Band	Channel	Frequency Range(MHz)	Max. Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS850	128	0.009~0.15MHz	0.01	-47.49	-33	PASS
GPRS850	128	0.15~30MHz	0.16	-44.69	-23	PASS
GPRS850	128	30~1000MHz	927.7	-47.21	-13	PASS
GPRS850	128	1000~10000MHz	1648.3	-34.53	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-48.84	-33	PASS
GPRS850	190	0.15~30MHz	0.15	-44.54	-23	PASS
GPRS850	190	30~1000MHz	955.48	-47.37	-13	PASS
GPRS850	190	1000~10000MHz	2509.9	-33.98	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-48.49	-33	PASS
GPRS850	251	0.15~30MHz	0.15	-44.58	-23	PASS
GPRS850	251	30~1000MHz	964.4	-47.67	-13	PASS
GPRS850	251	1000~10000MHz	2546.5	-33.17	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-48.94	-33	PASS
EGPRS850	128	0.15~30MHz	0.15	-44.44	-23	PASS
EGPRS850	128	30~1000MHz	416.03	-35.76	-13	PASS
EGPRS850	128	1000~10000MHz	2472.7	-46.19	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-48.57	-33	PASS
EGPRS850	190	0.15~30MHz	0.15	-44.69	-23	PASS
EGPRS850	190	30~1000MHz	416	-31.62	-13	PASS
EGPRS850	190	1000~10000MHz	2509.9	-38.63	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-49.16	-33	PASS
EGPRS850	251	0.15~30MHz	0.15	-44.25	-23	PASS
EGPRS850	251	30~1000MHz	432.81	-43.9	-13	PASS
EGPRS850	251	1000~10000MHz	1697.8	-44.97	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-47.99	-43	PASS
GPRS1900	512	0.15~30MHz	0.15	-44.04	-33	PASS
GPRS1900	512	30~1000MHz	941.28	-44.86	-13	PASS
GPRS1900	512	1000~3000MHz	2686.4	-36.42	-13	PASS
GPRS1900	512	3000~18000MHz	16431	-44.7	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-49.66	-43	PASS
GPRS1900	661	0.15~30MHz	0.16	-43.98	-33	PASS
GPRS1900	661	30~1000MHz	816.48	-44.96	-13	PASS
GPRS1900	661	1000~3000MHz	2672.33	-36.38	-13	PASS
GPRS1900	661	3000~18000MHz	16406.5	-44.86	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-48.29	-43	PASS
GPRS1900	810	0.15~30MHz	0.15	-44.83	-33	PASS
GPRS1900	810	30~1000MHz	823.04	-44.89	-13	PASS
GPRS1900	810	1000~3000MHz	2671.2	-36.48	-13	PASS
GPRS1900	810	3000~18000MHz	16399	-44.76	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-50.05	-43	PASS
EGPRS1900	512	0.15~30MHz	0.15	-44.39	-33	PASS



EGPRS1900	512	30~1000MHz	939.05	-44.98	-13	PASS
EGPRS1900	512	1000~3000MHz	2684.4	-36.29	-13	PASS
EGPRS1900	512	3000~18000MHz	16412.5	-44.75	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-48.76	-43	PASS
EGPRS1900	661	0.15~30MHz	0.15	-44.45	-33	PASS
EGPRS1900	661	30~1000MHz	851.04	-44.94	-13	PASS
EGPRS1900	661	1000~3000MHz	2677.87	-36.33	-13	PASS
EGPRS1900	661	3000~18000MHz	16870	-44.65	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-48.84	-43	PASS
EGPRS1900	810	0.15~30MHz	0.15	-44.14	-33	PASS
EGPRS1900	810	30~1000MHz	939.31	-44.62	-13	PASS
EGPRS1900	810	1000~3000MHz	2679.27	-36.25	-13	PASS
EGPRS1900	810	3000~18000MHz	16431.5	-44.74	-13	PASS
Band2	9262	0.009~0.15MHz	0.01	-51.04	-43	PASS
Band2	9262	0.15~30MHz	0.15	-47.89	-33	PASS
Band2	9262	30~1000MHz	817.64	-48.97	-13	PASS
Band2	9262	1000~20000MHz	16845.53	-37.6	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-50.49	-43	PASS
Band2	9400	0.15~30MHz	0.15	-47.99	-33	PASS
Band2	9400	30~1000MHz	933.07	-49.05	-13	PASS
Band2	9400	1000~20000MHz	16873.55	-37.41	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-50.39	-43	PASS
Band2	9538	0.15~30MHz	0.15	-48.48	-33	PASS
Band2	9538	30~1000MHz	930.65	-49	-13	PASS
Band2	9538	1000~20000MHz	16415.18	-37.14	-13	PASS
Band4	1312	0.009~0.15MHz	0.01	-52.03	-43	PASS
Band4	1312	0.15~30MHz	0.15	-49.44	-33	PASS
Band4	1312	30~1000MHz	946.17	-48.95	-13	PASS
Band4	1312	1000~20000MHz	18183.6	-37.32	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-51.55	-43	PASS
Band4	1413	0.15~30MHz	0.15	-48.57	-33	PASS
Band4	1413	30~1000MHz	825.4	-49.01	-13	PASS
Band4	1413	1000~20000MHz	19248.55	-37.33	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-50.6	-43	PASS
Band4	1513	0.15~30MHz	0.15	-48.7	-33	PASS
Band4	1513	30~1000MHz	894.76	-49.04	-13	PASS
Band4	1513	1000~20000MHz	16400.45	-37.17	-13	PASS
Band5	4132	0.009~0.15MHz	0.01	-51.95	-33	PASS
Band5	4132	0.15~30MHz	0.15	-47.72	-23	PASS
Band5	4132	30~1000MHz	940.35	-58.42	-13	PASS
Band5	4132	1000~10000MHz	2714.95	-43.81	-13	PASS
Band5	4182	0.009~0.15MHz	0.01	-52.79	-33	PASS
Band5	4182	0.15~30MHz	0.15	-46.94	-23	PASS
Band5	4182	30~1000MHz	957.81	-58.11	-13	PASS

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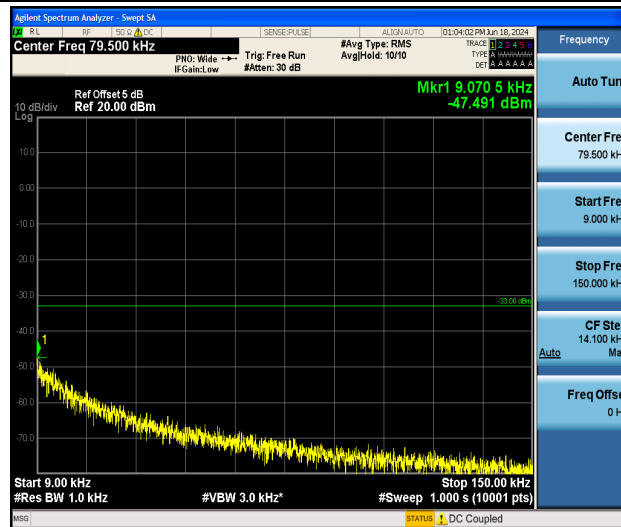
Fax: (86)755-27521011

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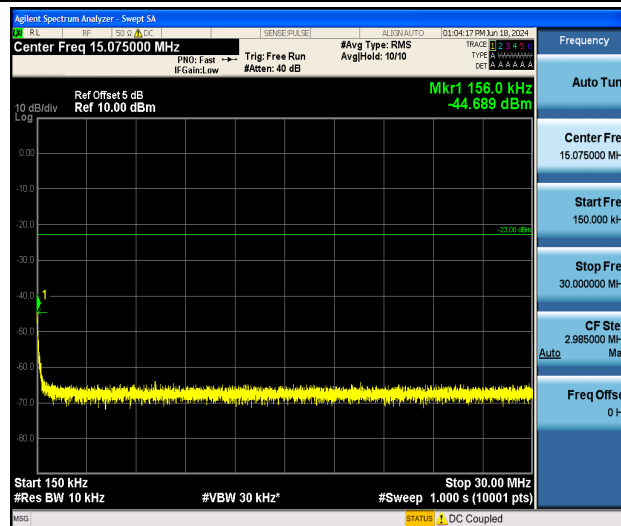
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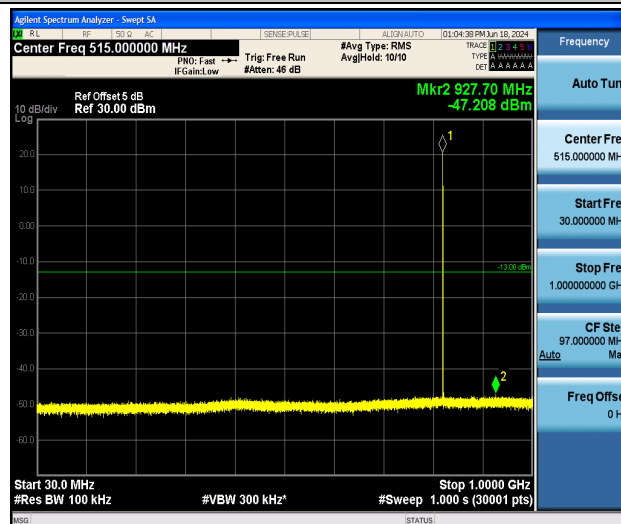
Band5	4182	1000~10000MHz	2684.35	-43.76	-13	PASS
Band5	4233	0.009~0.15MHz	0.01	-50.35	-33	PASS
Band5	4233	0.15~30MHz	0.15	-49.2	-23	PASS
Band5	4233	30~1000MHz	975.75	-58.2	-13	PASS
Band5	4233	1000~10000MHz	2677.15	-43.67	-13	PASS



GPRS850-128-0.009~0.15MHz-PASS



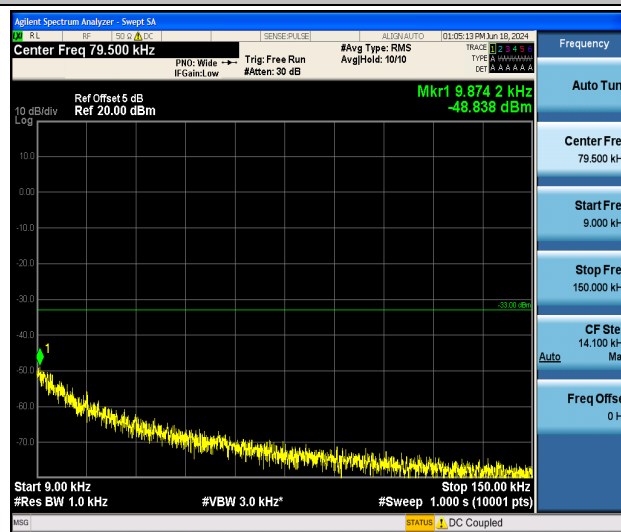
GPRS850-128-0.15~30MHz-PASS



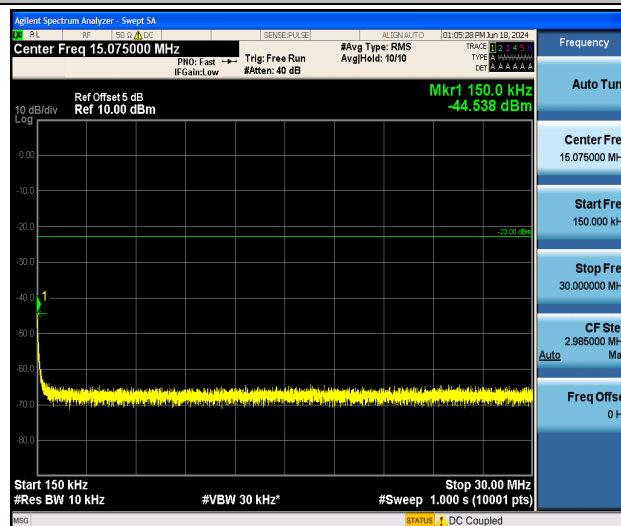
GPRS850-128-30~1000MHz-PASS



GPRS850-128-1000~10000MHz-PASS



GPRS850-190-0.009~0.15MHz-PASS



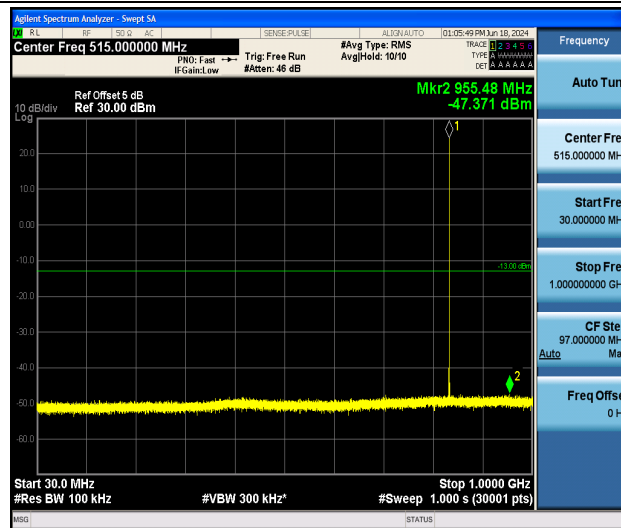
GPRS850-190-0.15~30MHz-PASS

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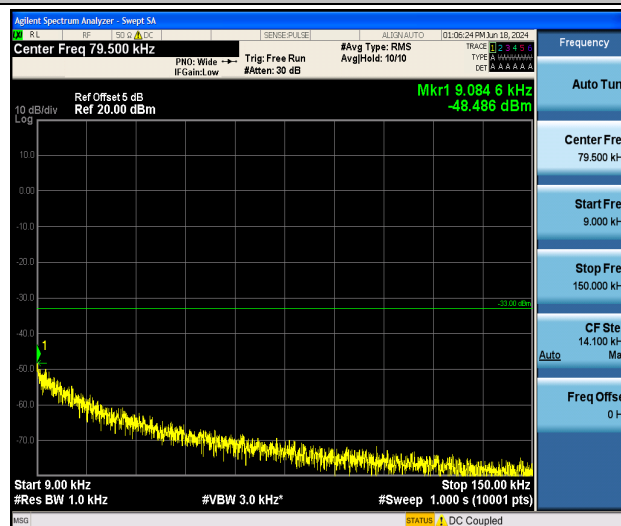
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



GPRS850-190-30~1000MHz-PASS



GPRS850-190-1000~10000MHz-PASS



GPRS850-251-0.009~0.15MHz-PASS

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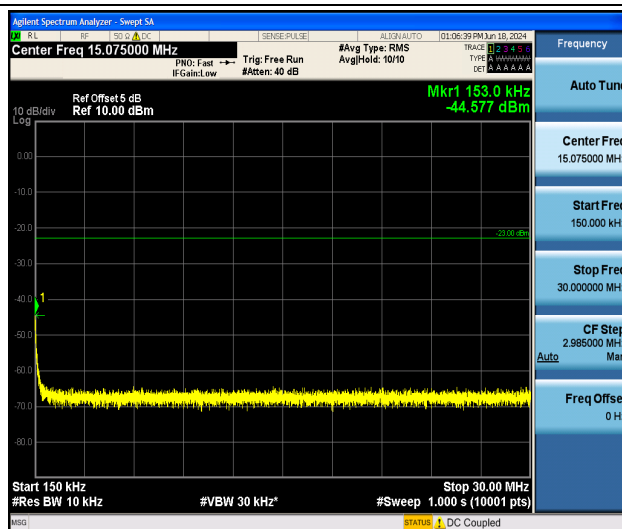
Room 101 Building B, No. 7, Lanqing 1st Road, LuHu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

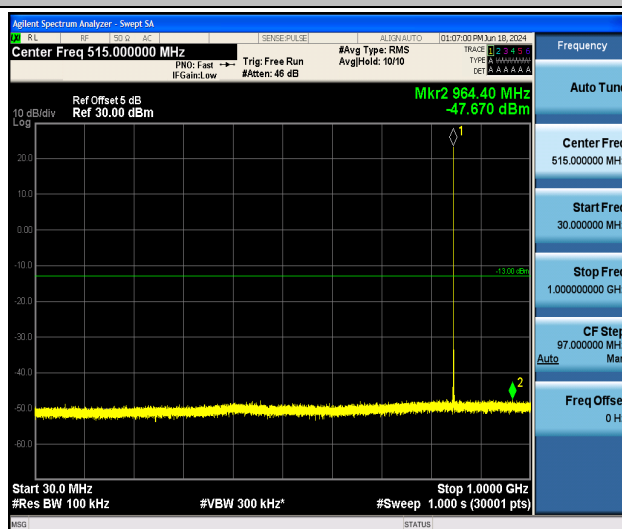
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

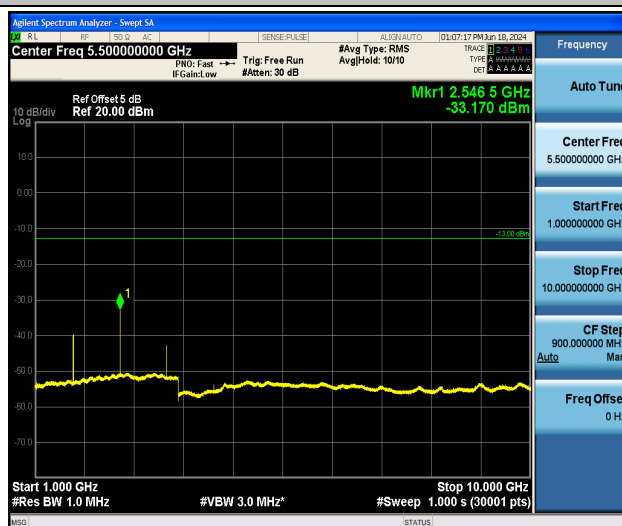
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



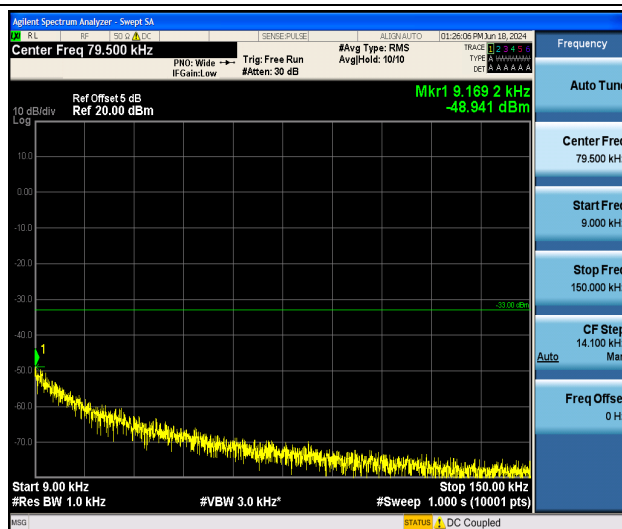
GPRS850-251-0.15~30MHz-PASS



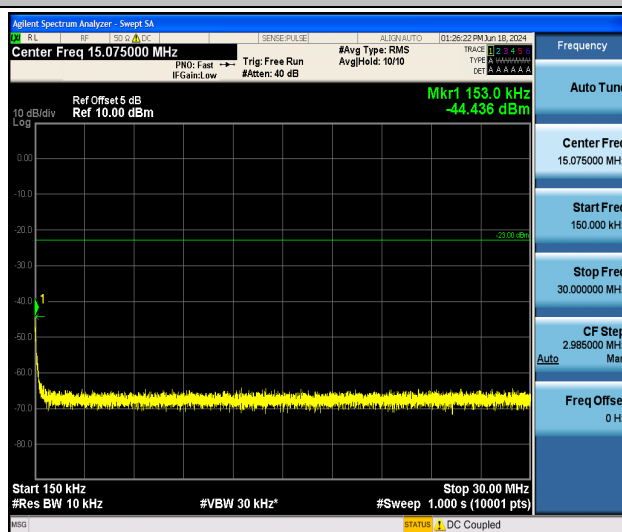
GPRS850-251-30~1000MHz-PASS



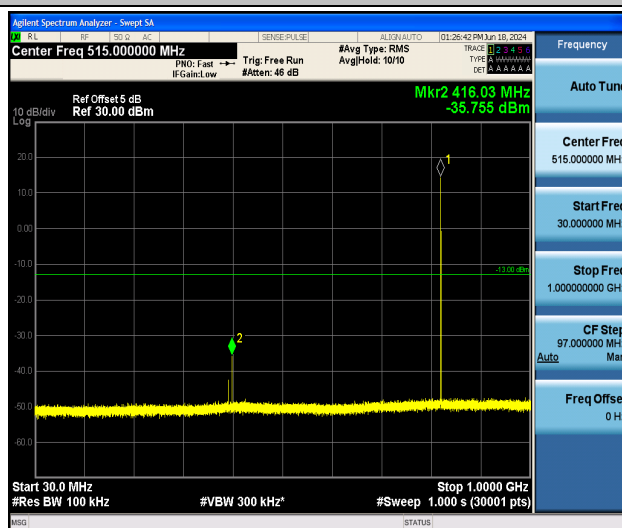
GPRS850-251-1000~10000MHz-PASS



EGPRS850-128-0.009~0.15MHz-PASS



EGPRS850-128-0.15~30MHz-PASS



EGPRS850-128-30~1000MHz-PASS

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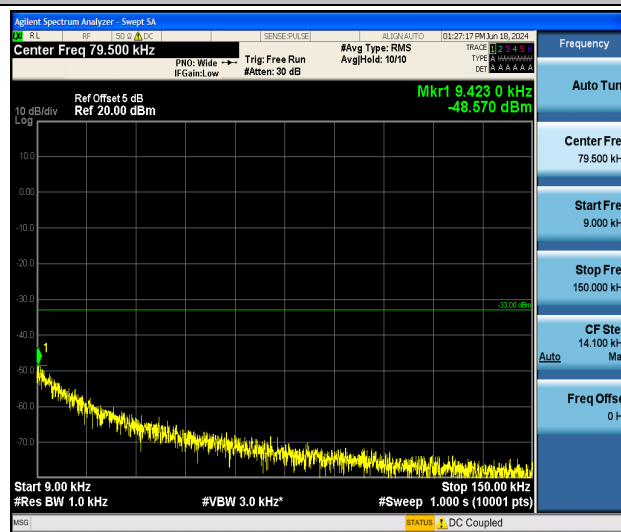
Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059



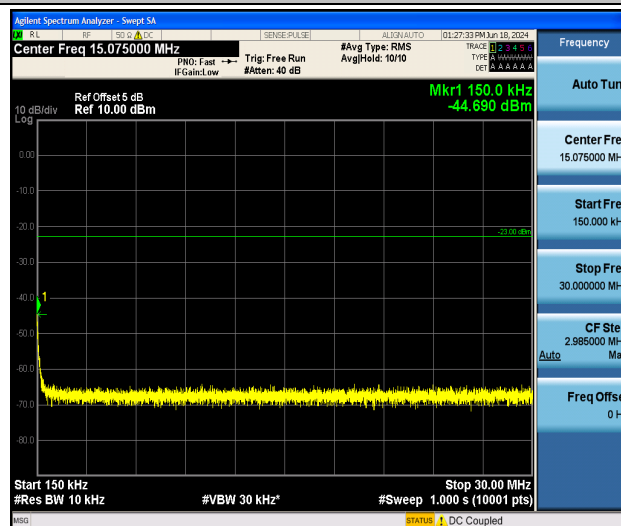
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EGPRS850-128-1000~10000MHz-PASS



EGPRS850-190-0.009~0.15MHz-PASS



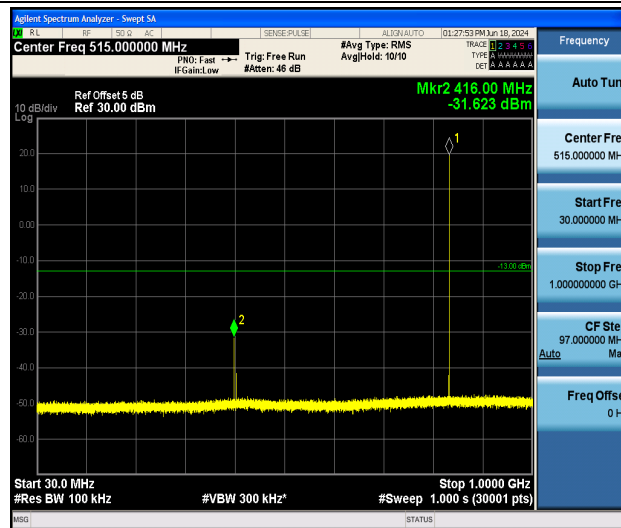
EGPRS850-190-0.15~30MHz-PASS

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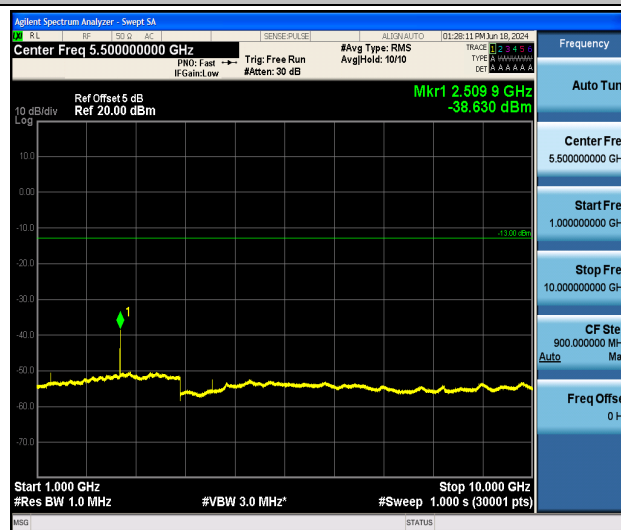
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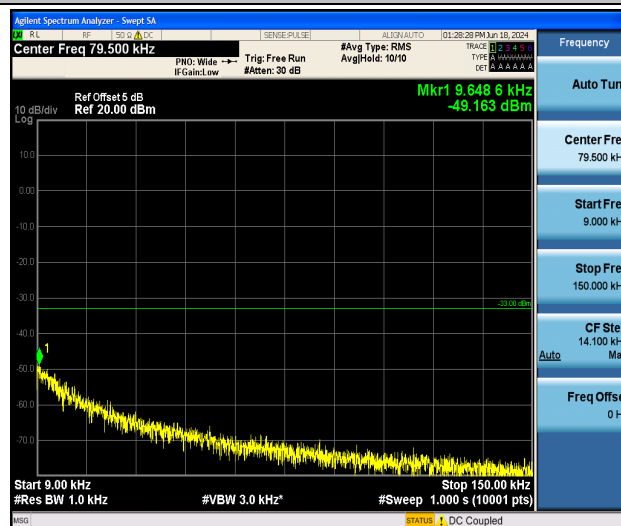
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



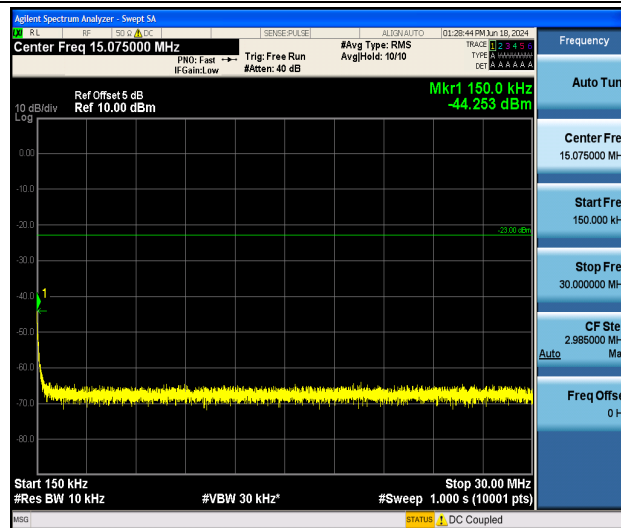
EGPRS850-190-30~1000MHz-PASS



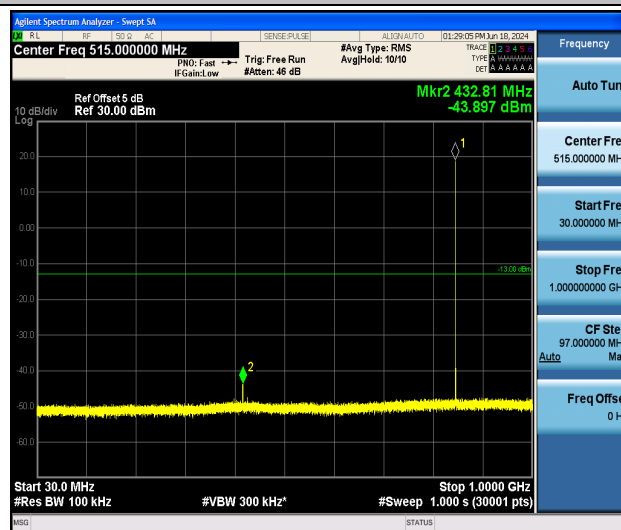
EGPRS850-190-1000~10000MHz-PASS



EGPRS850-251-0.009~0.15MHz-PASS



EGPRS850-251-0.15~30MHz-PASS



EGPRS850-251-30~1000MHz-PASS



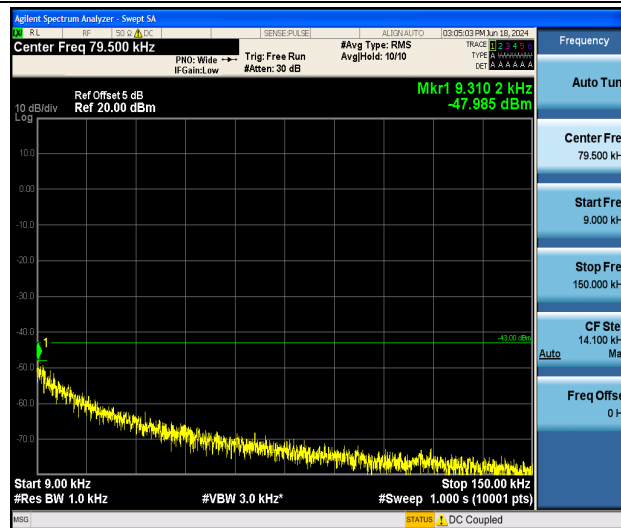
EGPRS850-251-1000~10000MHz-PASS

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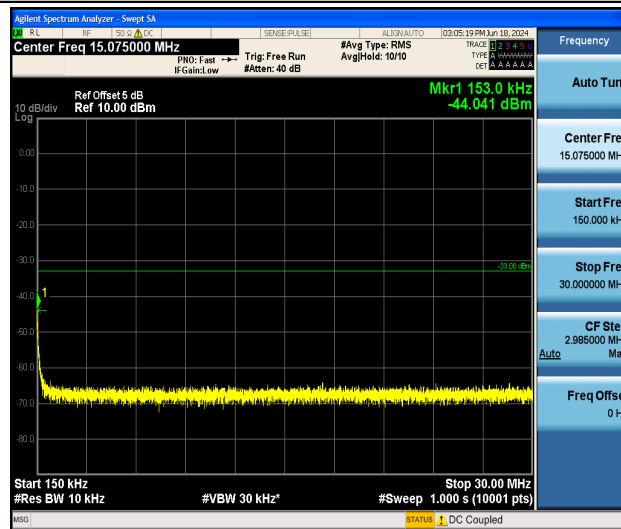
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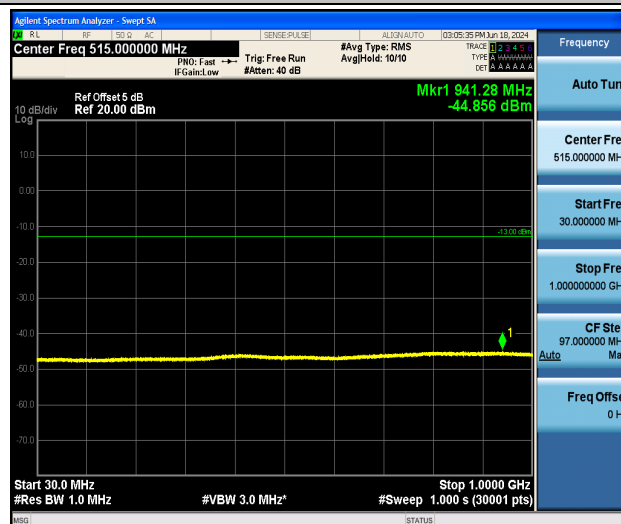
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



GPRS1900-512-0.009~0.15MHz-PASS



GPRS1900-512-0.15~30MHz-PASS



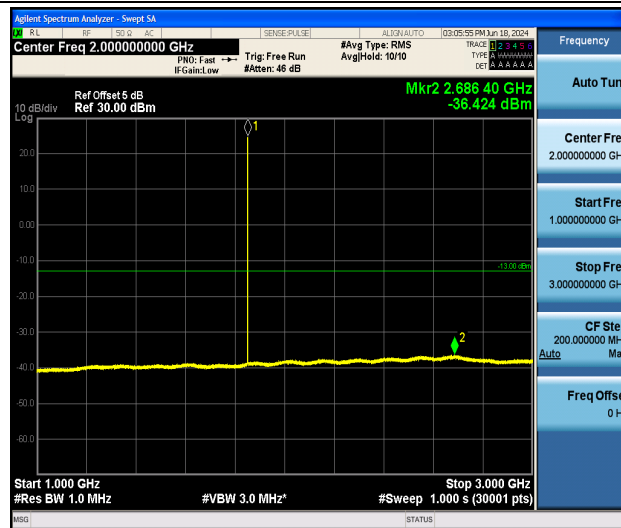
GPRS1900-512-30~1000MHz-PASS

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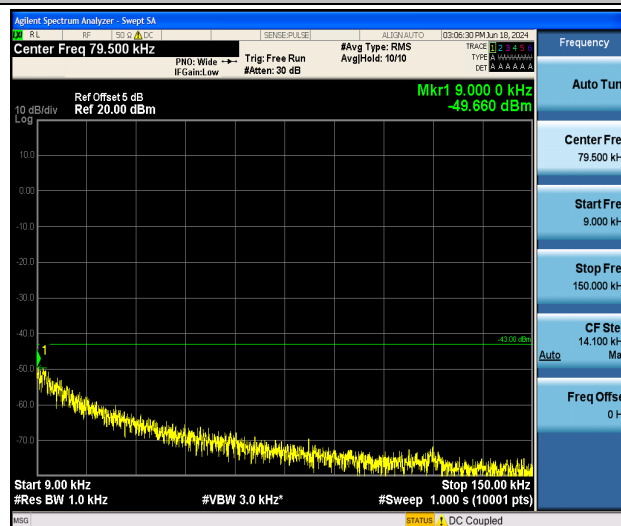
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



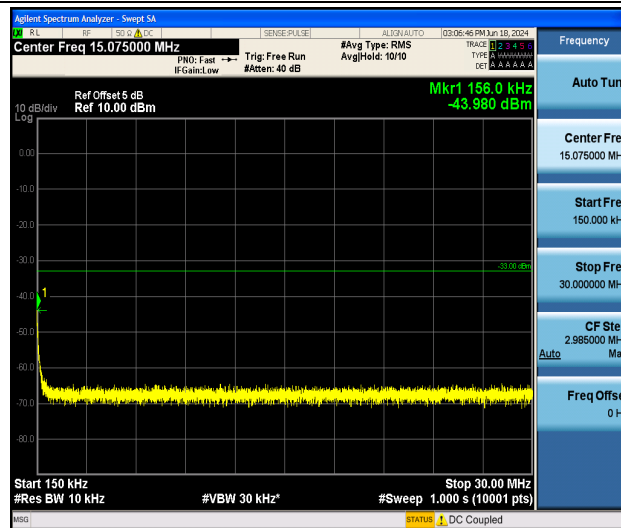
GPRS1900-512-1000~3000MHz-PASS



GPRS1900-512-3000~18000MHz-PASS



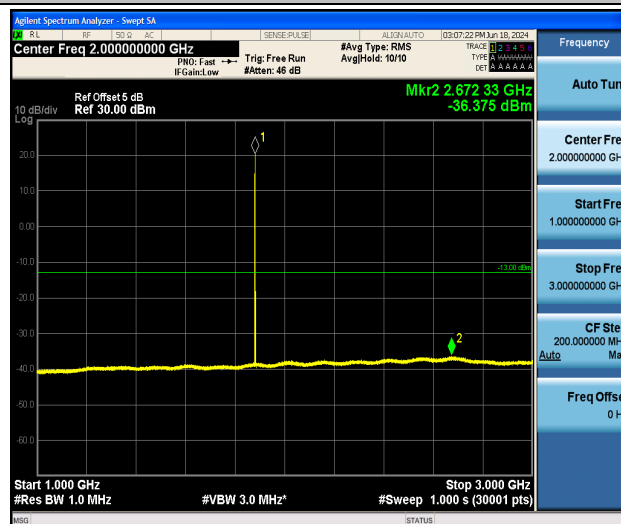
GPRS1900-661-0.009~0.15MHz-PASS



GPRS1900-661-0.15~30MHz-PASS



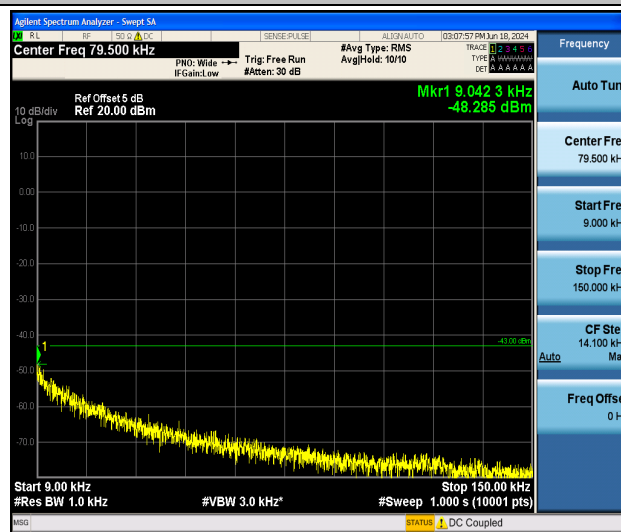
GPRS1900-661-30~1000MHz-PASS



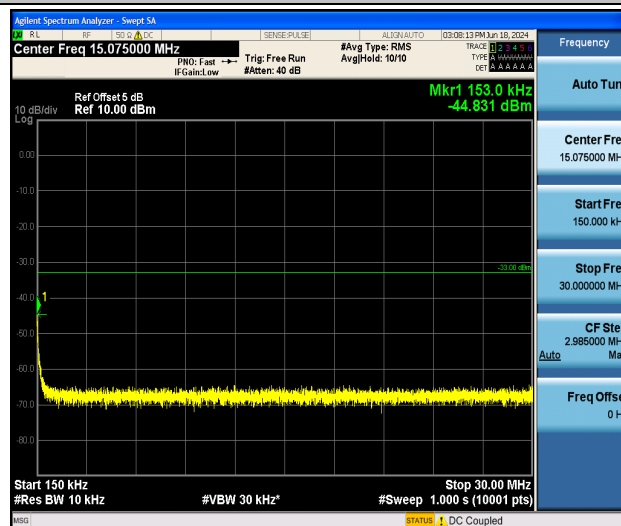
GPRS1900-661-1000~3000MHz-PASS



GPRS1900-661-3000~18000MHz-PASS



GPRS1900-810-0.009~0.15MHz-PASS



GPRS1900-810-0.15~30MHz-PASS

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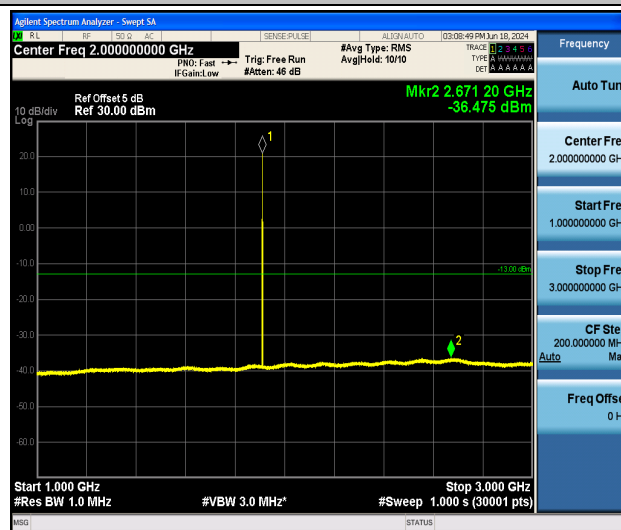
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GPRS1900-810-30~1000MHz-PASS



GPRS1900-810-1000~3000MHz-PASS



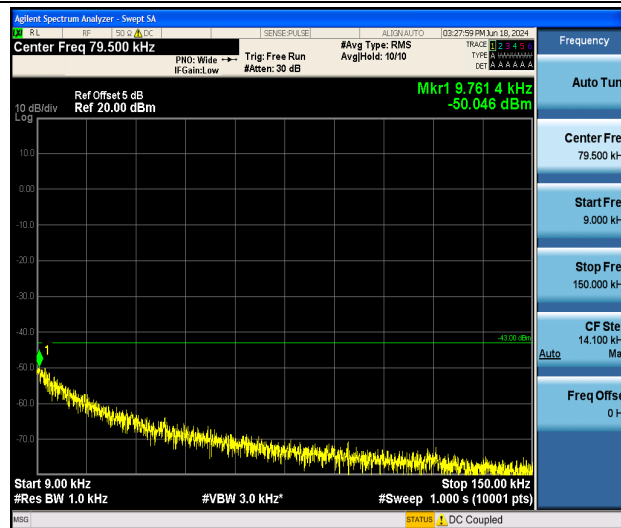
GPRS1900-810-3000~18000MHz-PASS

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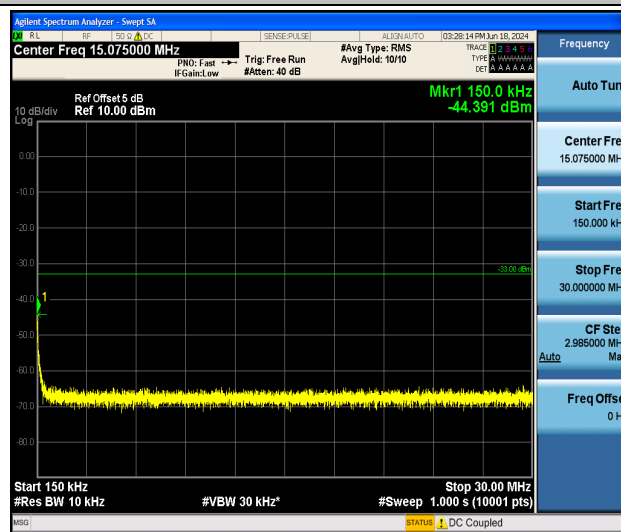
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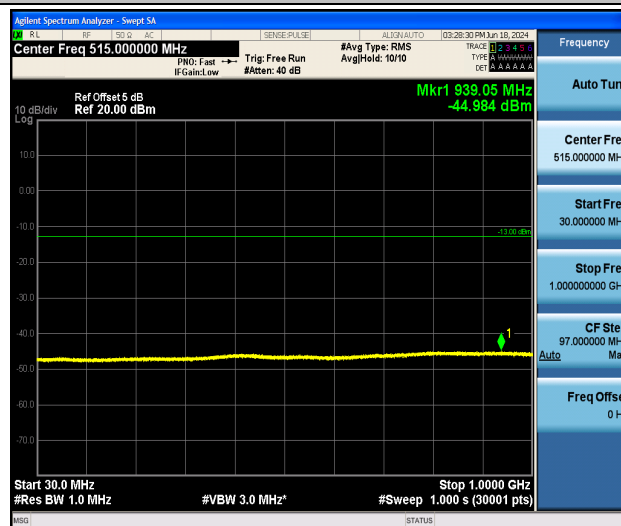
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China: yz.cnca.cn



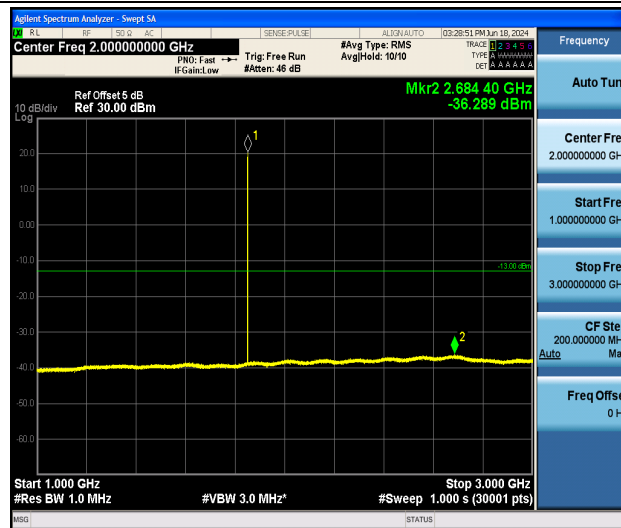
EGPRS1900-512-0.009~0.15MHz-PASS



EGPRS1900-512-0.15~30MHz-PASS



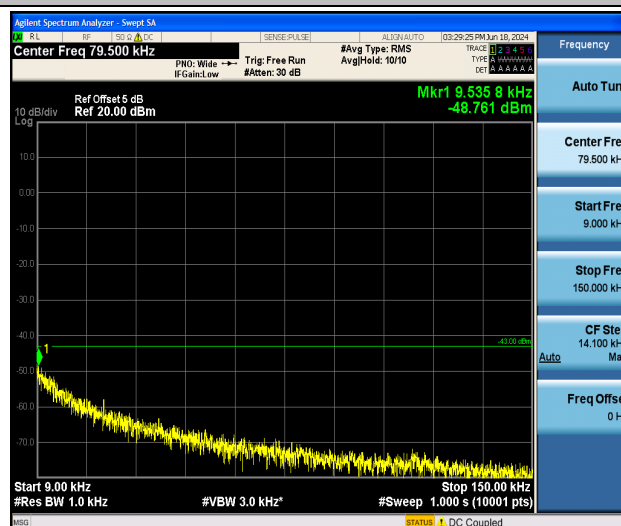
EGPRS1900-512-30~1000MHz-PASS



EGPRS1900-512-1000~3000MHz-PASS



EGPRS1900-512-3000~18000MHz-PASS



EGPRS1900-661-0.009~0.15MHz-PASS

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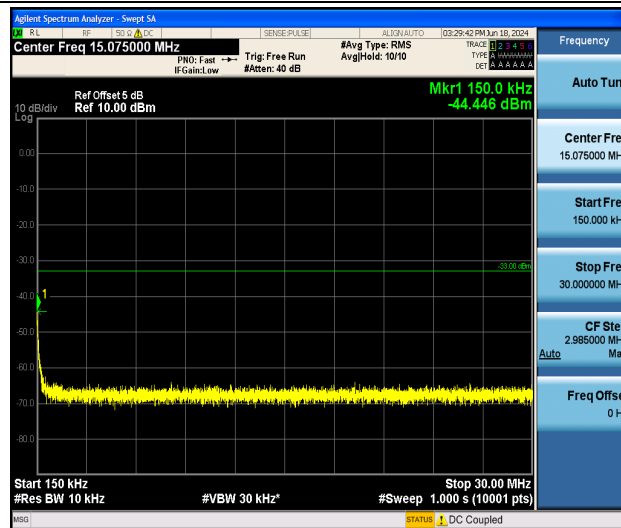
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Tel.: (86)755-27521059

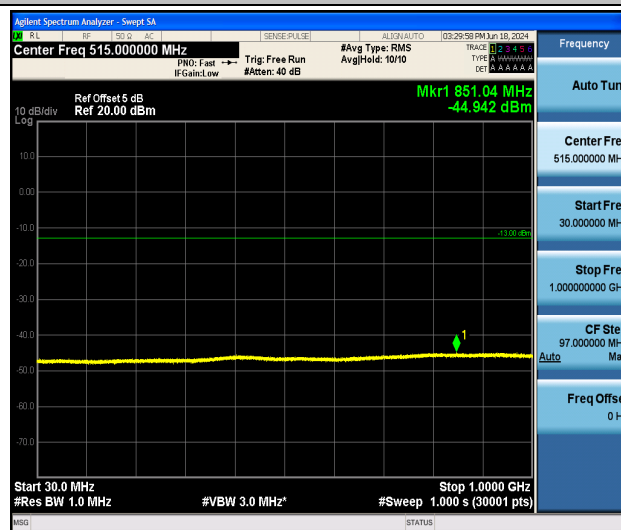
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

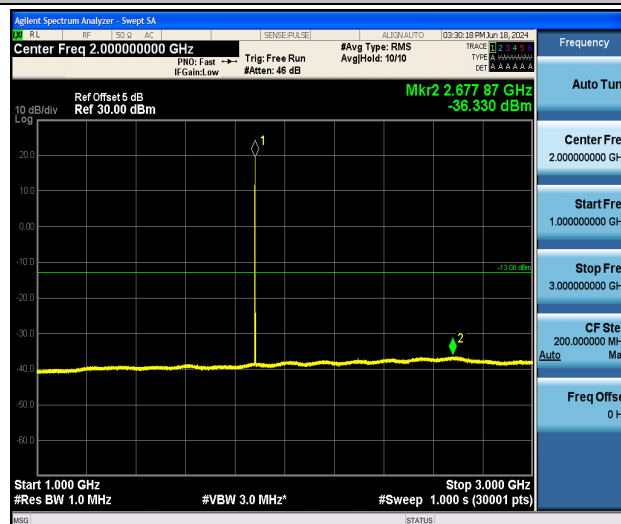
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EGPRS1900-661-0.15~30MHz-PASS



EGPRS1900-661-30~1000MHz-PASS



EGPRS1900-661-1000~3000MHz-PASS

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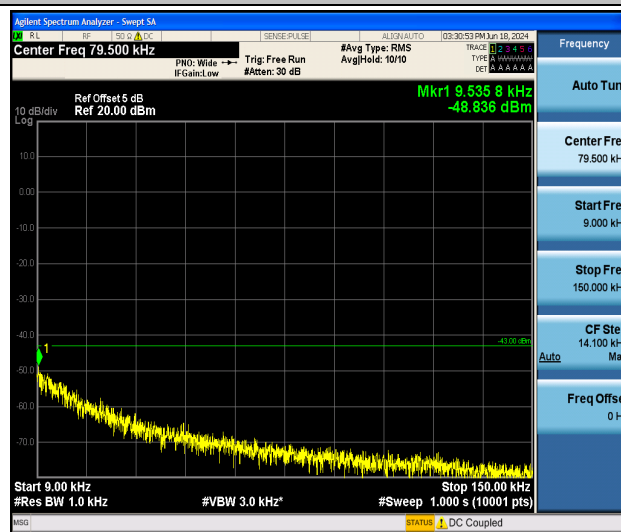
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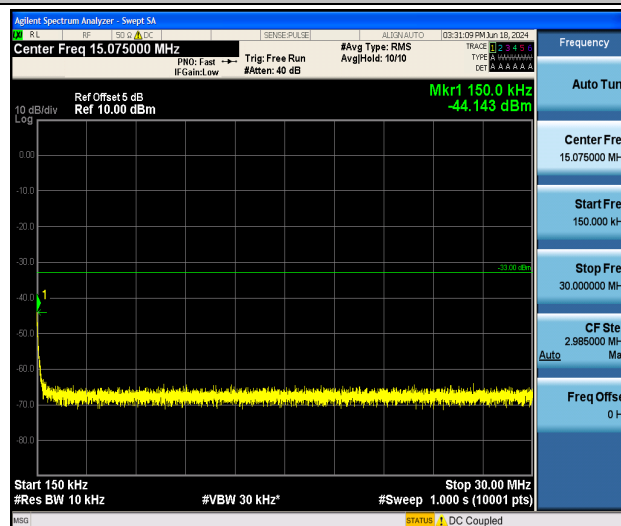
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



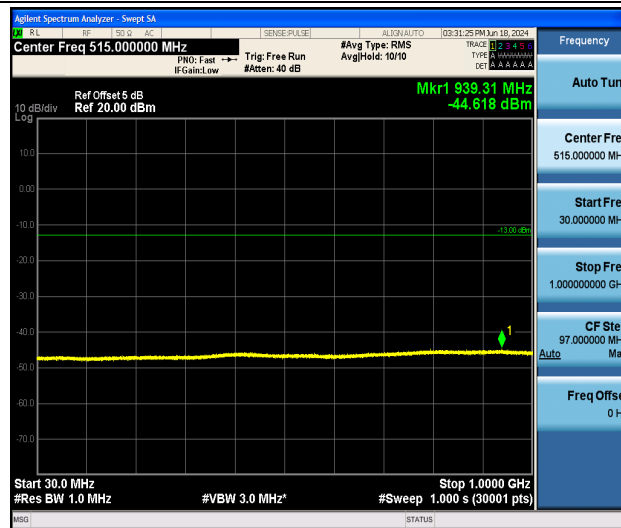
EGPRS1900-661-3000~18000MHz-PASS



EGPRS1900-810-0.009~0.15MHz-PASS



EGPRS1900-810-0.15~30MHz-PASS



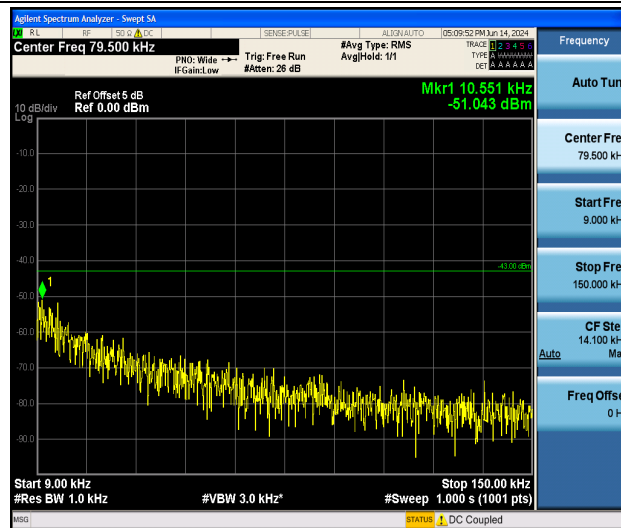
EGPRS1900-810-30~1000MHz-PASS



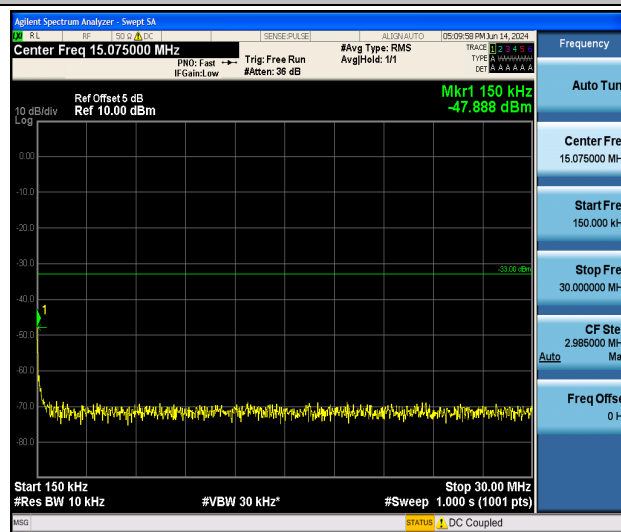
EGPRS1900-810-1000~3000MHz-PASS



EGPRS1900-810-3000~18000MHz-PASS



Band2-9262-0.009~0.15MHz-PASS



Band2-9262-0.15~30MHz-PASS



Band2-9262-30~1000MHz-PASS

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