



BUREAU VERITAS

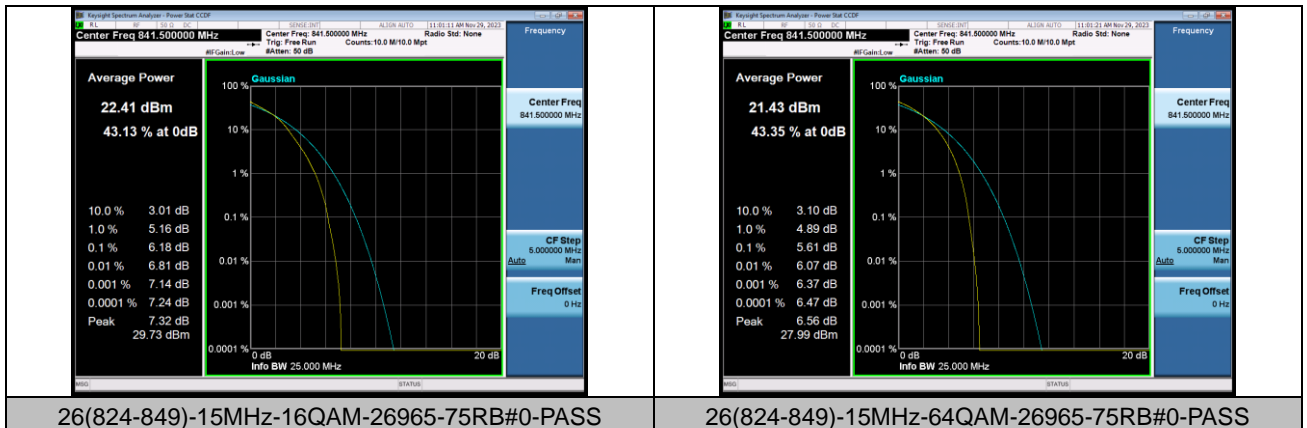
Test Report No.: W7L-P23100008RF04





BUREAU
VERITAS

Test Report No.: W7L-P23100008RF04



Huarui 7Layers High
Technology (Suzhou) Co., Ltd

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District,
Suzhou City, Anhui Province

Tel: +86(0557) 368 1008



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
26(824-849)	1.4MHz	QPSK	26797	6RB#0	1.0922	1.279	PASS
26(824-849)	1.4MHz	16QAM	26797	6RB#0	1.0985	1.306	PASS
26(824-849)	1.4MHz	64QAM	26797	6RB#0	1.0923	1.297	PASS
26(824-849)	1.4MHz	QPSK	26915	6RB#0	1.0934	1.284	PASS
26(824-849)	1.4MHz	16QAM	26915	6RB#0	1.0963	1.303	PASS
26(824-849)	1.4MHz	64QAM	26915	6RB#0	1.0883	1.282	PASS
26(824-849)	1.4MHz	QPSK	27033	6RB#0	1.0904	1.278	PASS
26(824-849)	1.4MHz	16QAM	27033	6RB#0	1.0985	1.302	PASS
26(824-849)	1.4MHz	64QAM	27033	6RB#0	1.0950	1.308	PASS
26(824-849)	3MHz	QPSK	26805	15RB#0	2.6913	2.886	PASS
26(824-849)	3MHz	16QAM	26805	15RB#0	2.6855	2.904	PASS
26(824-849)	3MHz	64QAM	26805	15RB#0	2.6852	2.894	PASS
26(824-849)	3MHz	QPSK	26915	15RB#0	2.6873	2.888	PASS
26(824-849)	3MHz	16QAM	26915	15RB#0	2.6811	2.946	PASS
26(824-849)	3MHz	64QAM	26915	15RB#0	2.6882	2.911	PASS
26(824-849)	3MHz	QPSK	27025	15RB#0	2.6861	2.894	PASS
26(824-849)	3MHz	16QAM	27025	15RB#0	2.6822	2.899	PASS
26(824-849)	3MHz	64QAM	27025	15RB#0	2.6945	2.916	PASS
26(824-849)	5MHz	QPSK	26815	25RB#0	4.5069	4.931	PASS
26(824-849)	5MHz	16QAM	26815	25RB#0	4.4862	4.886	PASS
26(824-849)	5MHz	64QAM	26815	25RB#0	4.4939	4.907	PASS
26(824-849)	5MHz	QPSK	26915	25RB#0	4.4925	4.924	PASS
26(824-849)	5MHz	16QAM	26915	25RB#0	4.4999	5.133	PASS
26(824-849)	5MHz	64QAM	26915	25RB#0	4.4963	4.922	PASS
26(824-849)	5MHz	QPSK	27015	25RB#0	4.4992	4.928	PASS
26(824-849)	5MHz	16QAM	27015	25RB#0	4.4853	4.906	PASS
26(824-849)	5MHz	64QAM	27015	25RB#0	4.4968	4.909	PASS
26(824-849)	10MHz	QPSK	26840	50RB#0	8.9751	9.765	PASS
26(824-849)	10MHz	16QAM	26840	50RB#0	8.9977	9.774	PASS
26(824-849)	10MHz	64QAM	26840	50RB#0	8.9789	9.798	PASS
26(824-849)	10MHz	QPSK	26915	50RB#0	8.9779	9.799	PASS
26(824-849)	10MHz	16QAM	26915	50RB#0	8.9635	9.699	PASS
26(824-849)	10MHz	64QAM	26915	50RB#0	8.9782	9.764	PASS
26(824-849)	10MHz	QPSK	26990	50RB#0	8.9895	9.828	PASS
26(824-849)	10MHz	16QAM	26990	50RB#0	8.9863	9.673	PASS
26(824-849)	10MHz	64QAM	26990	50RB#0	8.9714	9.777	PASS
26(824-849)	15MHz	QPSK	26865	75RB#0	13.520	14.73	PASS
26(824-849)	15MHz	16QAM	26865	75RB#0	13.491	14.62	PASS
26(824-849)	15MHz	64QAM	26865	75RB#0	13.488	14.60	PASS
26(824-849)	15MHz	QPSK	26915	75RB#0	13.465	14.62	PASS
26(824-849)	15MHz	16QAM	26915	75RB#0	13.464	14.71	PASS
26(824-849)	15MHz	64QAM	26915	75RB#0	13.488	14.62	PASS
26(824-849)	15MHz	QPSK	26965	75RB#0	13.443	14.65	PASS

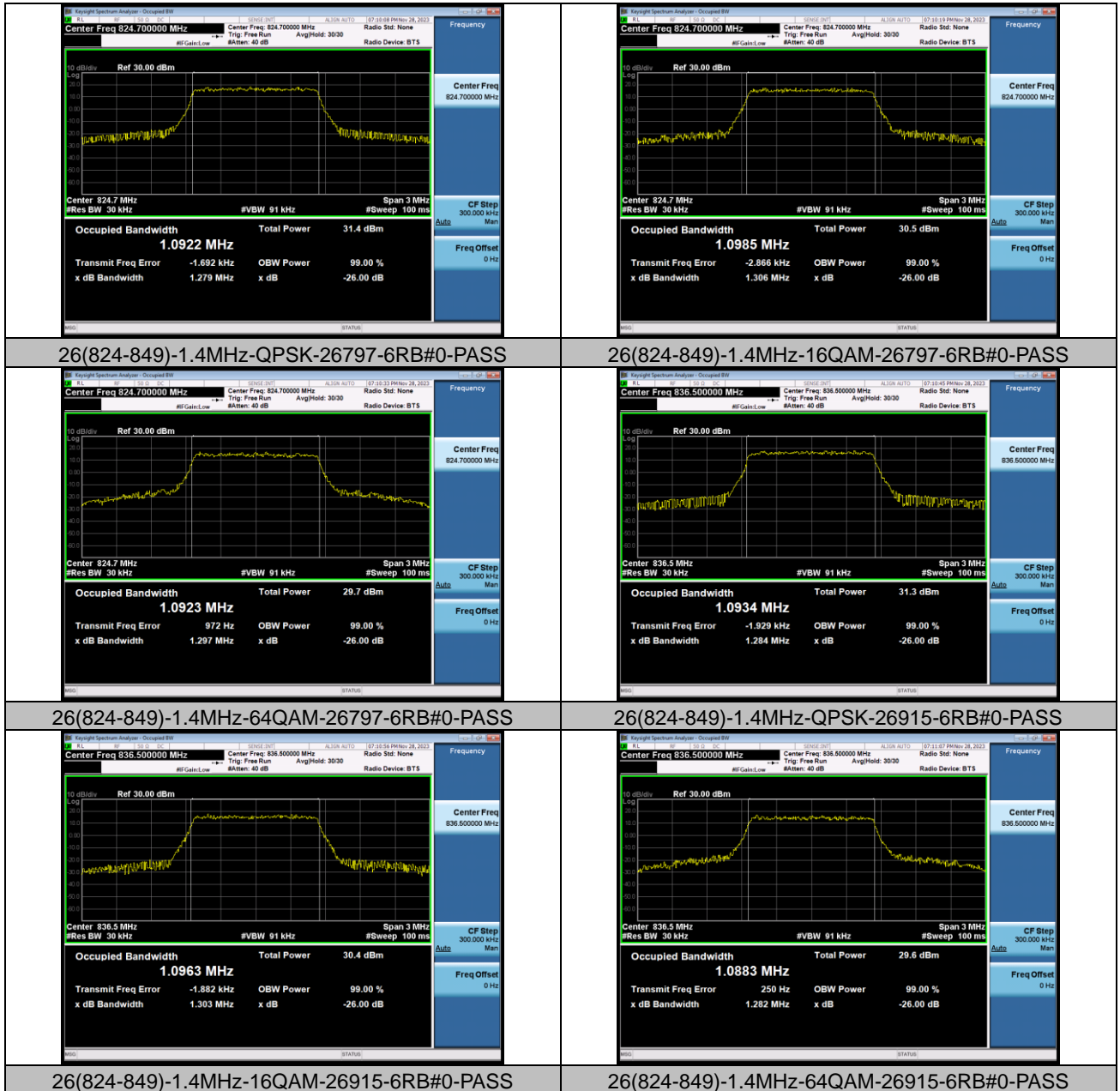


**BUREAU
VERITAS**

Test Report No.: W7L-P23100008RF04

26(824-849)	15MHz	16QAM	26965	75RB#0	13.426	14.54	PASS
26(824-849)	15MHz	64QAM	26965	75RB#0	13.417	14.54	PASS

Test Graphs



Huarui 7Layers High
Technology (Suzhou) Co., Ltd

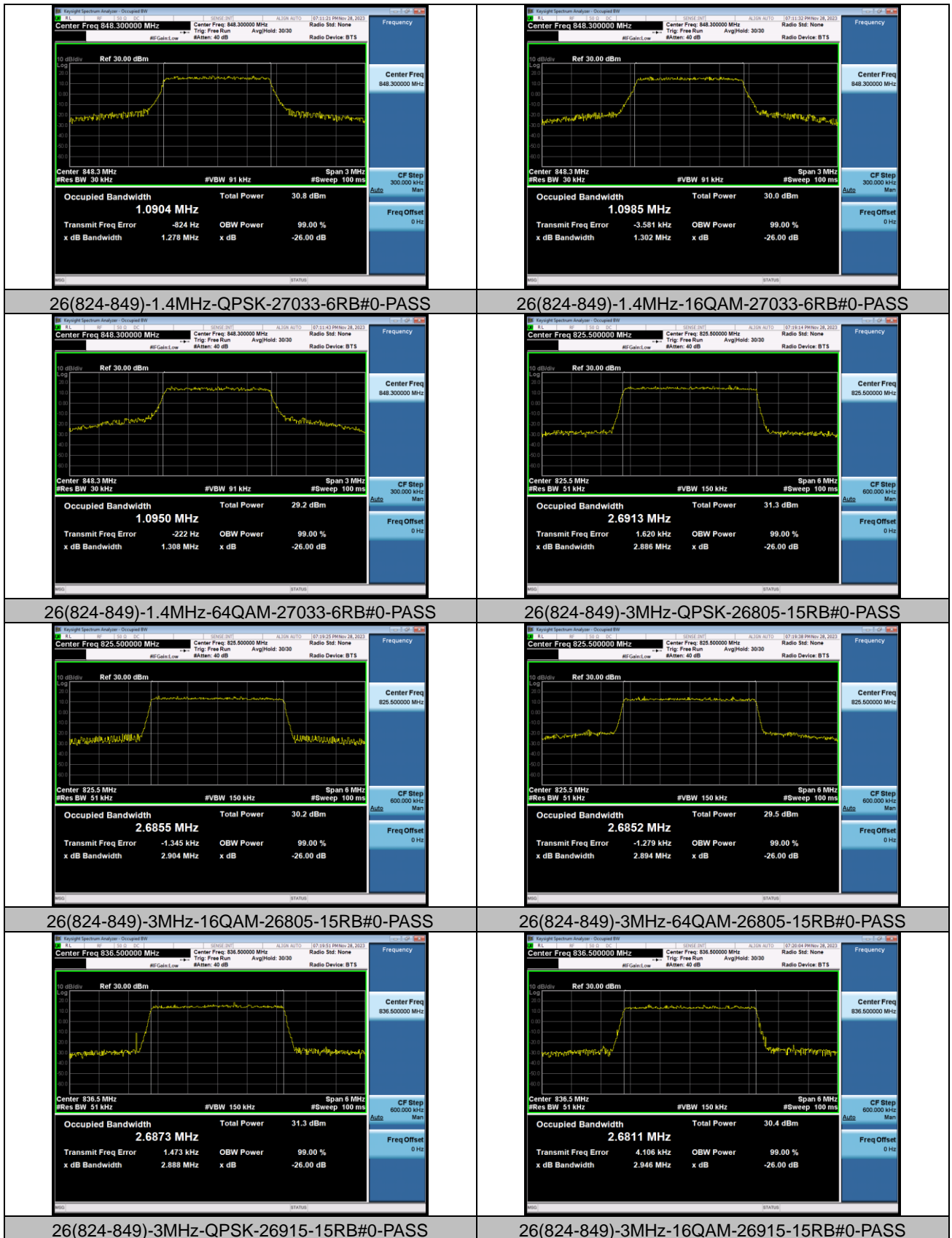
Tower N, Innovation Center, 88 Zhuyi Road, High-tech District,
Suzhou City, Anhui Province

Tel: +86(0557) 368 1008



BUREAU VERITAS

Test Report No.: W7L-P23100008RF04



Huarui 7Layers High Technology (Suzhou) Co., Ltd

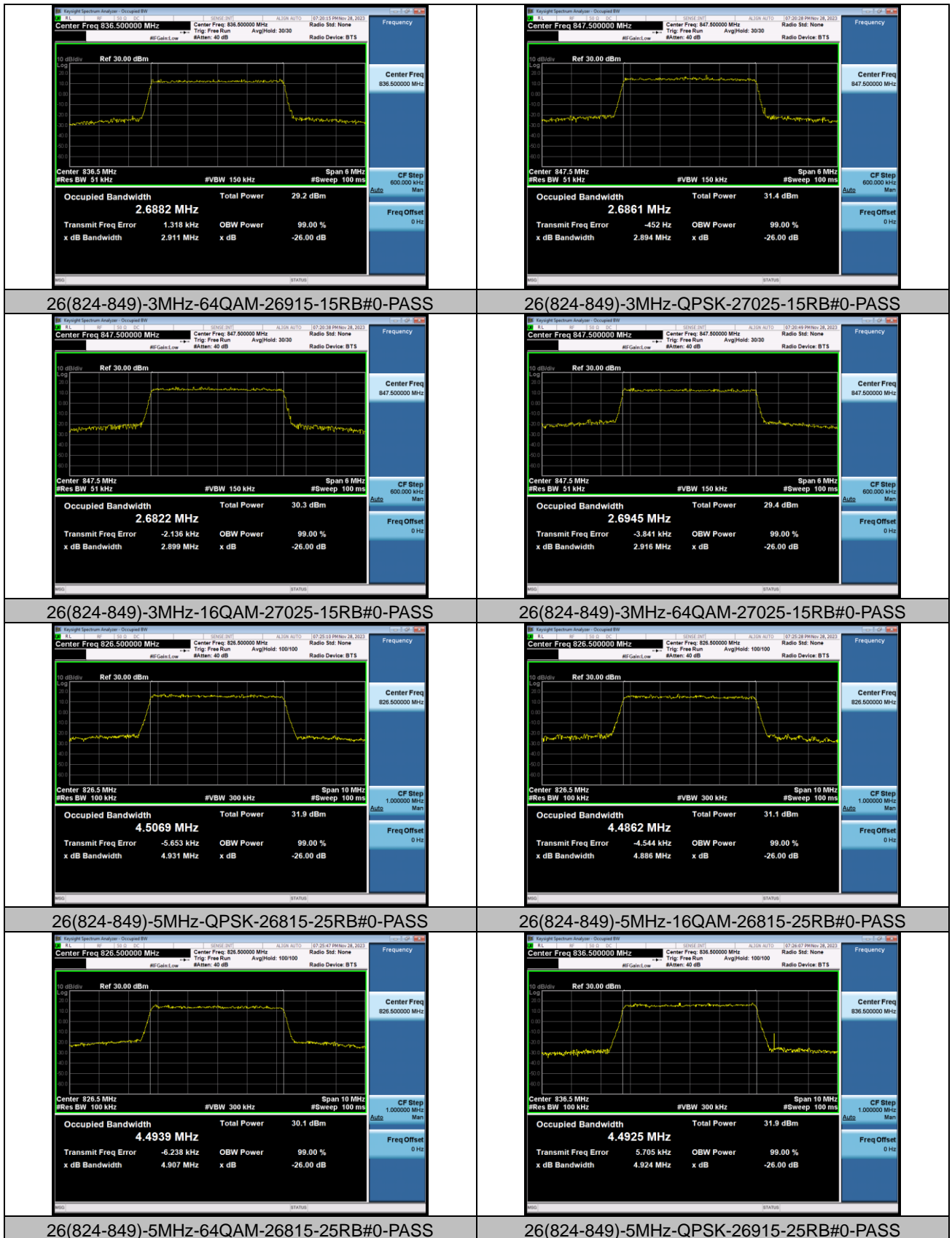
Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Tel: +86(0557) 368 1008



BUREAU VERITAS

Test Report No.: W7L-P23100008RF04



Huarui 7Layers High Technology (Suzhou) Co., Ltd

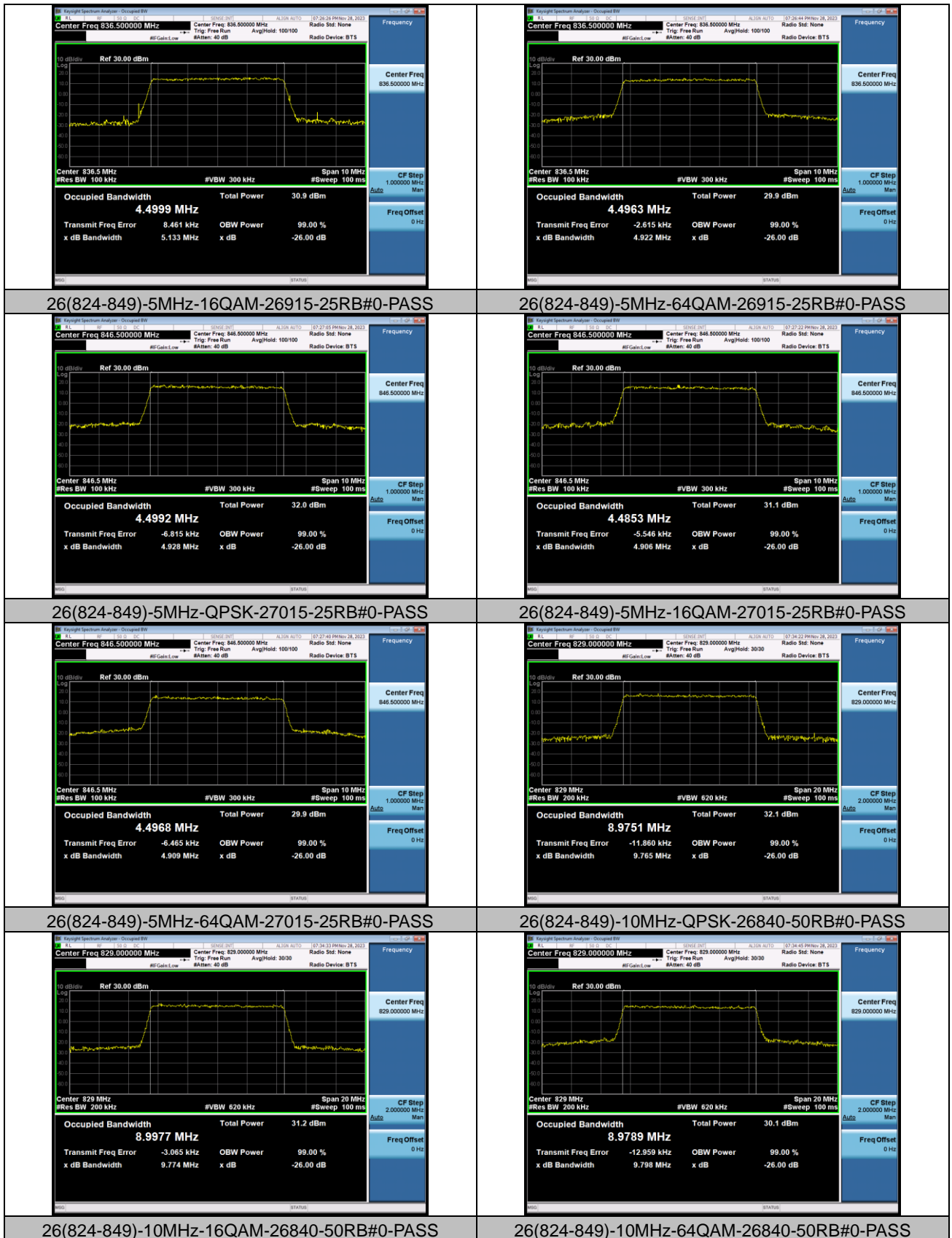
Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Tel: +86(0557) 368 1008



BUREAU VERITAS

Test Report No.: W7L-P23100008RF04



Huarui 7Layers High Technology (Suzhou) Co., Ltd

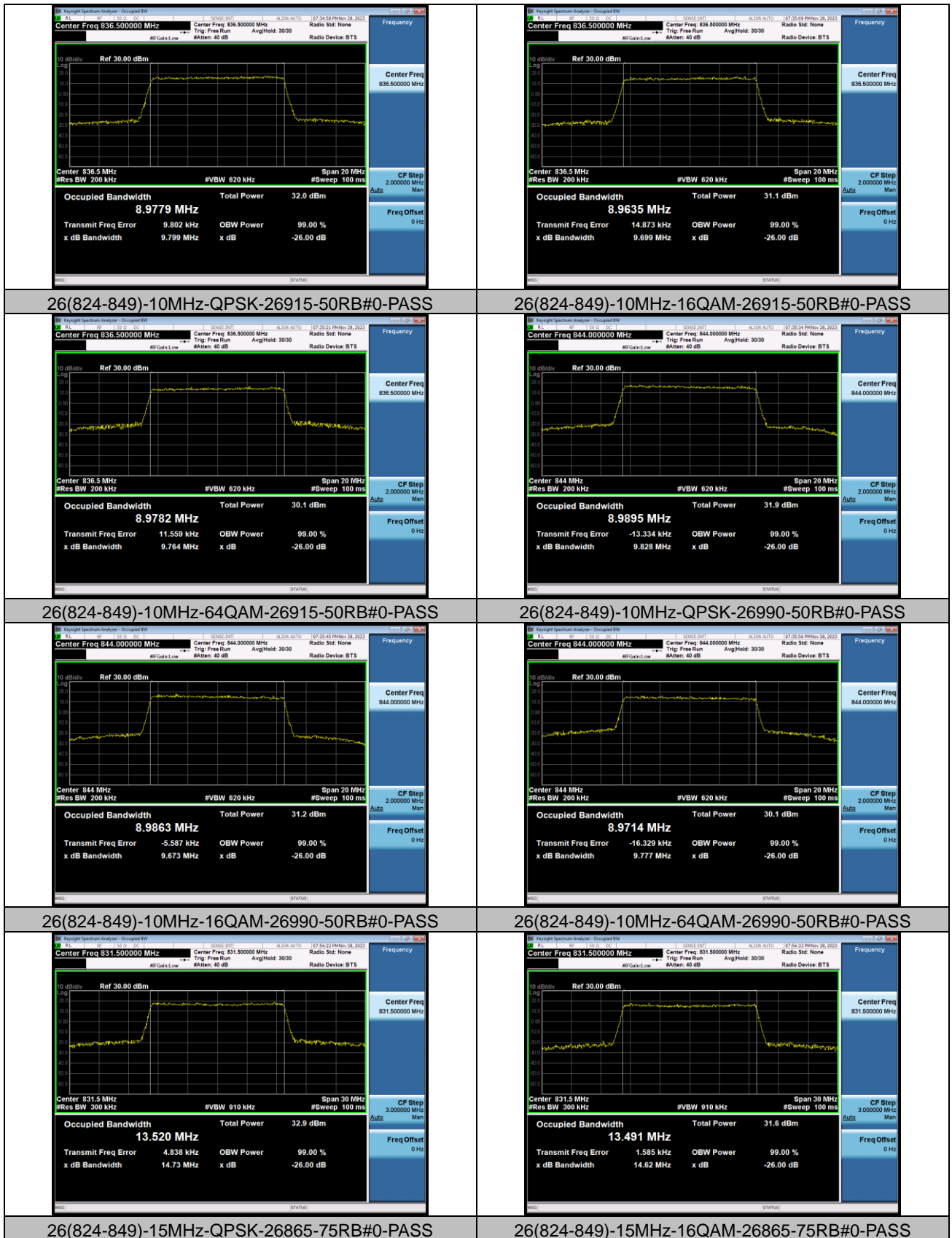
Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Tel: +86(0557) 368 1008



BUREAU VERITAS

Test Report No.: W7L-P23100008RF04



Huarui 7Layers High Technology (Suzhou) Co., Ltd

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Tel: +86(0557) 368 1008



BUREAU VERITAS

Test Report No.: W7L-P23100008RF04

<p>Center Freq 831.500000 MHz Center Freq 831.500000 MHz Trig: Free Run AvgHold: 3030 Radio Std: None Radio Device: BTS</p> <p>Center Freq 831.5 MHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz #Sweep 100 ms CF Step 3.000000 MHz</p> <p>Occupied Bandwidth 13.488 MHz Total Power 30.6 dBm</p> <p>Transmit Freq Error 5.299 kHz OBW Power 99.00 % x dB Bandwidth 14.60 MHz x dB -26.00 dB</p>	<p>Center Freq 836.500000 MHz Center Freq 836.500000 MHz Trig: Free Run AvgHold: 3030 Radio Std: None Radio Device: BTS</p> <p>Center Freq 836.5 MHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz #Sweep 100 ms CF Step 3.000000 MHz</p> <p>Occupied Bandwidth 13.465 MHz Total Power 32.7 dBm</p> <p>Transmit Freq Error 12.424 kHz OBW Power 99.00 % x dB Bandwidth 14.62 MHz x dB -26.00 dB</p>
<p>26(824-849)-15MHz-64QAM-26865-75RB#0-PASS</p>	<p>26(824-849)-15MHz-QPSK-26915-75RB#0-PASS</p>
<p>Center Freq 836.500000 MHz Center Freq 836.500000 MHz Trig: Free Run AvgHold: 3030 Radio Std: None Radio Device: BTS</p> <p>Center Freq 836.5 MHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz #Sweep 100 ms CF Step 3.000000 MHz</p> <p>Occupied Bandwidth 13.464 MHz Total Power 31.5 dBm</p> <p>Transmit Freq Error 9.796 kHz OBW Power 99.00 % x dB Bandwidth 14.71 MHz x dB -26.00 dB</p>	<p>Center Freq 836.500000 MHz Center Freq 836.500000 MHz Trig: Free Run AvgHold: 3030 Radio Std: None Radio Device: BTS</p> <p>Center Freq 836.5 MHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz #Sweep 100 ms CF Step 3.000000 MHz</p> <p>Occupied Bandwidth 13.488 MHz Total Power 30.5 dBm</p> <p>Transmit Freq Error 13.943 kHz OBW Power 99.00 % x dB Bandwidth 14.62 MHz x dB -26.00 dB</p>
<p>26(824-849)-15MHz-16QAM-26915-75RB#0-PASS</p>	<p>26(824-849)-15MHz-64QAM-26915-75RB#0-PASS</p>
<p>Center Freq 841.500000 MHz Center Freq 841.500000 MHz Trig: Free Run AvgHold: 3030 Radio Std: None Radio Device: BTS</p> <p>Center Freq 841.5 MHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz #Sweep 100 ms CF Step 3.000000 MHz</p> <p>Occupied Bandwidth 13.443 MHz Total Power 32.7 dBm</p> <p>Transmit Freq Error -14.309 kHz OBW Power 99.00 % x dB Bandwidth 14.65 MHz x dB -26.00 dB</p>	<p>Center Freq 841.500000 MHz Center Freq 841.500000 MHz Trig: Free Run AvgHold: 3030 Radio Std: None Radio Device: BTS</p> <p>Center Freq 841.5 MHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz #Sweep 100 ms CF Step 3.000000 MHz</p> <p>Occupied Bandwidth 13.426 MHz Total Power 31.7 dBm</p> <p>Transmit Freq Error -10.452 kHz OBW Power 99.00 % x dB Bandwidth 14.54 MHz x dB -26.00 dB</p>
<p>26(824-849)-15MHz-QPSK-26965-75RB#0-PASS</p>	<p>26(824-849)-15MHz-16QAM-26965-75RB#0-PASS</p>
<p>Center Freq 841.500000 MHz Center Freq 841.500000 MHz Trig: Free Run AvgHold: 3030 Radio Std: None Radio Device: BTS</p> <p>Center Freq 841.5 MHz #Res BW 300 kHz #VBW 910 kHz Span 30 MHz #Sweep 100 ms CF Step 3.000000 MHz</p> <p>Occupied Bandwidth 13.417 MHz Total Power 30.7 dBm</p> <p>Transmit Freq Error -10.474 kHz OBW Power 99.00 % x dB Bandwidth 14.54 MHz x dB -26.00 dB</p>	
<p>26(824-849)-15MHz-64QAM-26965-75RB#0-PASS</p>	



BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
26(824-849)	1.4MHz	QPSK	26797	1RB#0	-23.31	PASS
26(824-849)	1.4MHz	16QAM	26797	1RB#0	-26.73	PASS
26(824-849)	1.4MHz	64QAM	26797	1RB#0	-22.45	PASS
26(824-849)	1.4MHz	QPSK	26797	6RB#0	-33.68	PASS
26(824-849)	1.4MHz	16QAM	26797	6RB#0	-33.54	PASS
26(824-849)	1.4MHz	64QAM	26797	6RB#0	-32.94	PASS
26(824-849)	1.4MHz	QPSK	27033	1RB#5	-24.23	PASS
26(824-849)	1.4MHz	16QAM	27033	1RB#5	-22.88	PASS
26(824-849)	1.4MHz	64QAM	27033	1RB#5	-23.53	PASS
26(824-849)	1.4MHz	QPSK	27033	6RB#0	-31.40	PASS
26(824-849)	1.4MHz	16QAM	27033	6RB#0	-29.52	PASS
26(824-849)	1.4MHz	64QAM	27033	6RB#0	-26.45	PASS
26(824-849)	3MHz	QPSK	26805	1RB#0	-22.71	PASS
26(824-849)	3MHz	16QAM	26805	1RB#0	-23.82	PASS
26(824-849)	3MHz	64QAM	26805	1RB#0	-27.59	PASS
26(824-849)	3MHz	QPSK	26805	15RB#0	-33.51	PASS
26(824-849)	3MHz	16QAM	26805	15RB#0	-31.72	PASS
26(824-849)	3MHz	64QAM	26805	15RB#0	-30.84	PASS
26(824-849)	3MHz	QPSK	27025	1RB#14	-19.14	PASS
26(824-849)	3MHz	16QAM	27025	1RB#14	-20.13	PASS
26(824-849)	3MHz	64QAM	27025	1RB#14	-26.36	PASS
26(824-849)	3MHz	QPSK	27025	15RB#0	-32.47	PASS
26(824-849)	3MHz	16QAM	27025	15RB#0	-31.31	PASS
26(824-849)	3MHz	64QAM	27025	15RB#0	-29.04	PASS
26(824-849)	5MHz	QPSK	26815	1RB#0	-24.77	PASS
26(824-849)	5MHz	16QAM	26815	1RB#0	-24.53	PASS
26(824-849)	5MHz	64QAM	26815	1RB#0	-26.31	PASS
26(824-849)	5MHz	QPSK	26815	25RB#0	-33.69	PASS
26(824-849)	5MHz	16QAM	26815	25RB#0	-32.05	PASS
26(824-849)	5MHz	64QAM	26815	25RB#0	-30.88	PASS
26(824-849)	5MHz	QPSK	27015	1RB#24	-23.36	PASS
26(824-849)	5MHz	16QAM	27015	1RB#24	-25.10	PASS
26(824-849)	5MHz	64QAM	27015	1RB#24	-26.08	PASS
26(824-849)	5MHz	QPSK	27015	25RB#0	-32.34	PASS
26(824-849)	5MHz	16QAM	27015	25RB#0	-32.05	PASS
26(824-849)	5MHz	64QAM	27015	25RB#0	-28.86	PASS
26(824-849)	10MHz	QPSK	26840	1RB#0	-34.09	PASS
26(824-849)	10MHz	16QAM	26840	1RB#0	-35.34	PASS
26(824-849)	10MHz	64QAM	26840	1RB#0	-36.19	PASS
26(824-849)	10MHz	QPSK	26840	50RB#0	-34.23	PASS
26(824-849)	10MHz	16QAM	26840	50RB#0	-33.02	PASS
26(824-849)	10MHz	64QAM	26840	50RB#0	-31.67	PASS
26(824-849)	10MHz	QPSK	26990	1RB#49	-32.38	PASS
26(824-849)	10MHz	16QAM	26990	1RB#49	-33.44	PASS

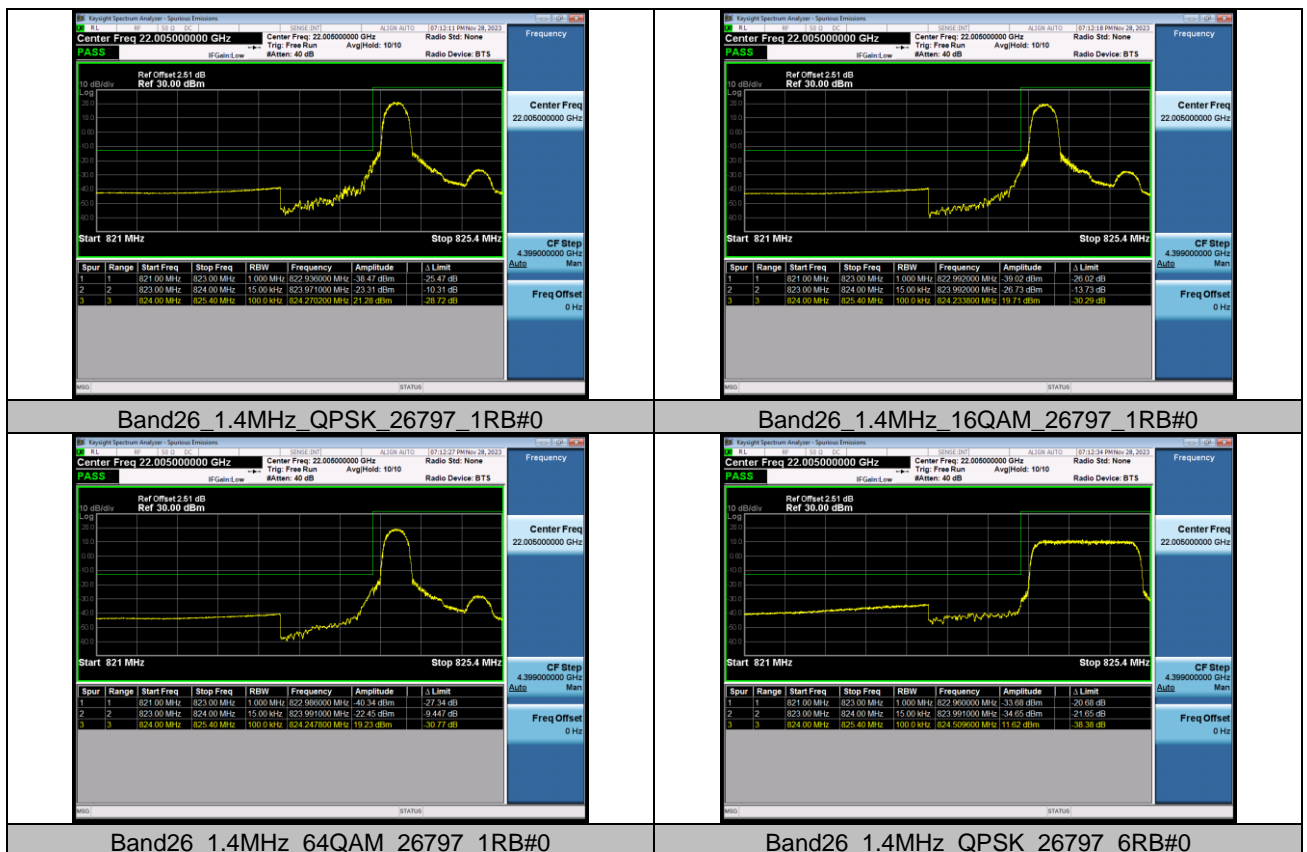


**BUREAU
VERITAS**

Test Report No.: W7L-P23100008RF04

26(824-849)	10MHz	64QAM	26990	1RB#49	-34.99	PASS
26(824-849)	10MHz	QPSK	26990	50RB#0	-34.73	PASS
26(824-849)	10MHz	16QAM	26990	50RB#0	-34.60	PASS
26(824-849)	10MHz	64QAM	26990	50RB#0	-31.72	PASS
26(824-849)	15MHz	QPSK	26865	1RB#0	-36.47	PASS
26(824-849)	15MHz	16QAM	26865	1RB#0	-39.33	PASS
26(824-849)	15MHz	64QAM	26865	1RB#0	-40.14	PASS
26(824-849)	15MHz	QPSK	26865	75RB#0	-32.06	PASS
26(824-849)	15MHz	16QAM	26865	75RB#0	-33.84	PASS
26(824-849)	15MHz	64QAM	26865	75RB#0	-29.60	PASS
26(824-849)	15MHz	QPSK	26965	1RB#74	-37.95	PASS
26(824-849)	15MHz	16QAM	26965	1RB#74	-38.67	PASS
26(824-849)	15MHz	64QAM	26965	1RB#74	-40.16	PASS
26(824-849)	15MHz	QPSK	26965	75RB#0	-32.41	PASS
26(824-849)	15MHz	16QAM	26965	75RB#0	-34.47	PASS
26(824-849)	15MHz	64QAM	26965	75RB#0	-29.72	PASS

Test Graphs



Huarui 7Layers High
Technology (Suzhou) Co., Ltd

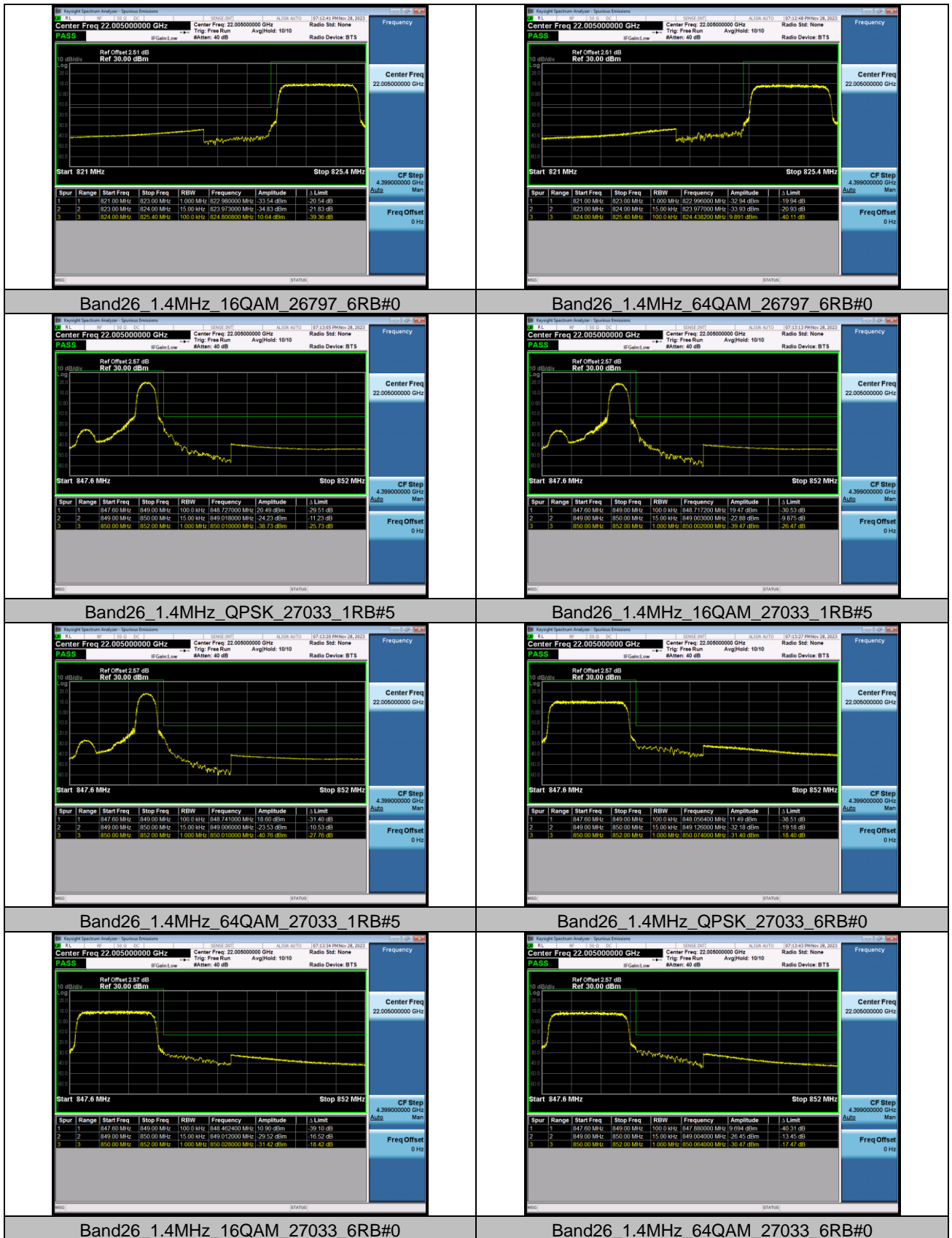
Tower N, Innovation Center, 88 Zhuyi Road, High-tech District,
Suzhou City, Anhui Province

Tel: +86(0557) 368 1008



BUREAU VERITAS

Test Report No.: W7L-P23100008RF04



Band26_1.4MHz_16QAM_26797_6RB#0

Band26_1.4MHz_64QAM_26797_6RB#0

Band26_1.4MHz_QPSK_27033_1RB#5

Band26_1.4MHz_16QAM_27033_1RB#5

Band26_1.4MHz_64QAM_27033_1RB#5

Band26_1.4MHz_QPSK_27033_6RB#0

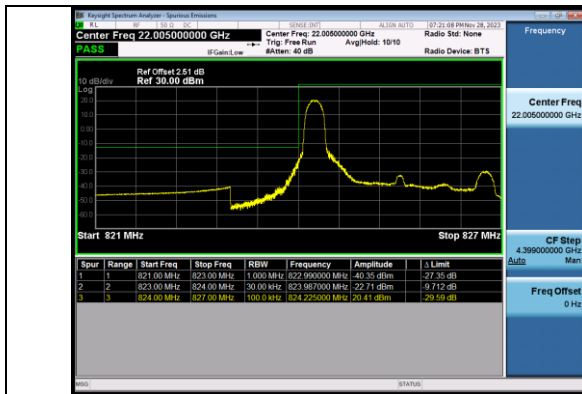
Band26_1.4MHz_16QAM_27033_6RB#0

Band26_1.4MHz_64QAM_27033_6RB#0

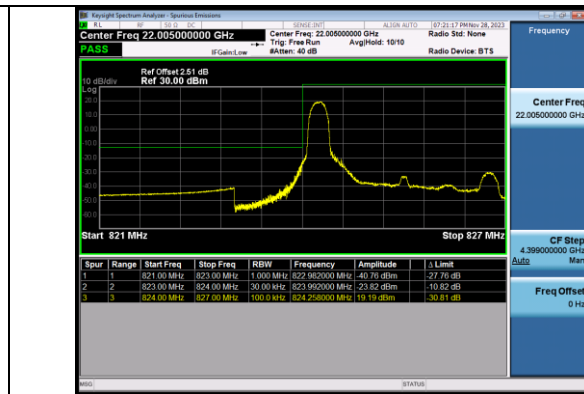


BUREAU VERITAS

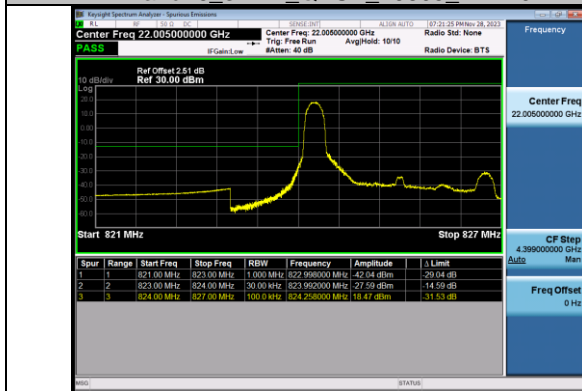
Test Report No.: W7L-P23100008RF04



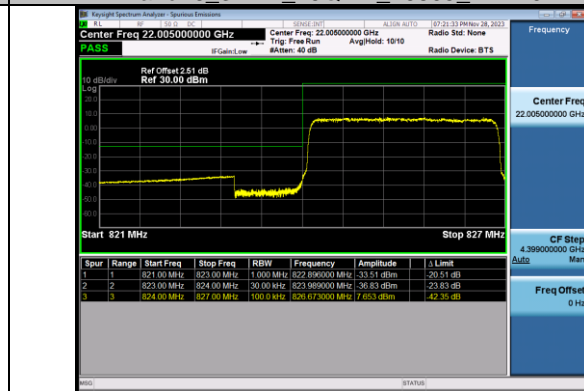
Band26_3MHz_QPSK_26805_1RB#0



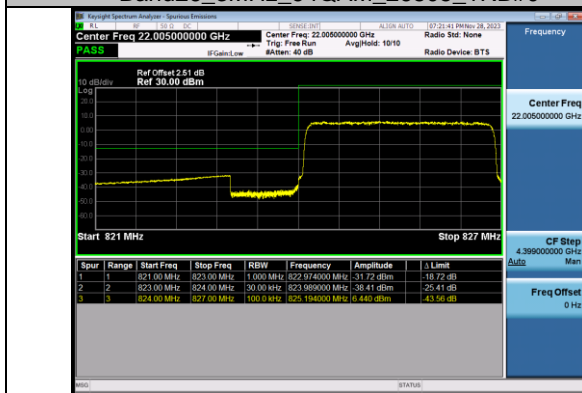
Band26_3MHz_16QAM_26805_1RB#0



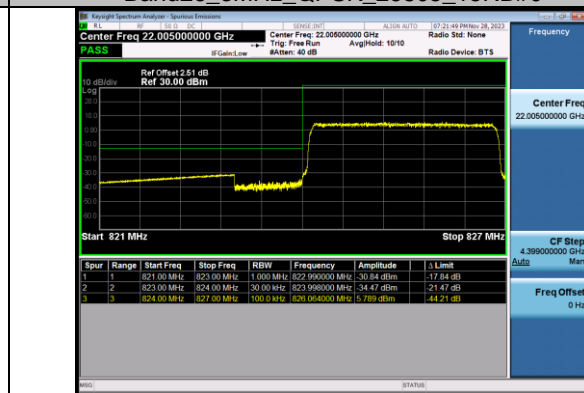
Band26_3MHz_64QAM_26805_1RB#0



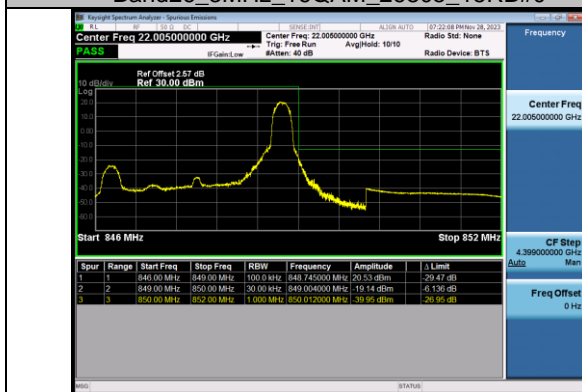
Band26_3MHz_QPSK_26805_15RB#0



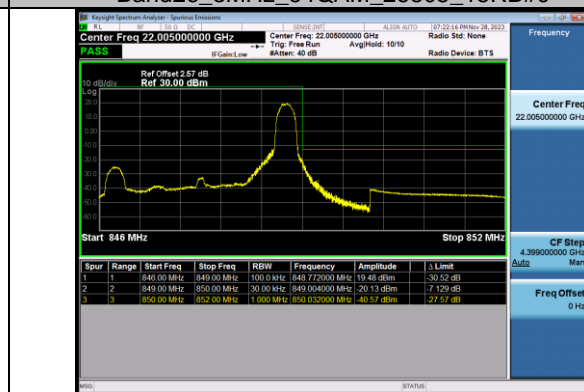
Band26_3MHz_16QAM_26805_15RB#0



Band26_3MHz_64QAM_26805_15RB#0



Band26_3MHz_QPSK_27025_1RB#14



Band26_3MHz_16QAM_27025_1RB#14

Huarui 7Layers High Technology (Suzhou) Co., Ltd

Tower N, Innovation Center, 88 Zhuyi Road, High-tech District, Suzhou City, Anhui Province

Tel: +86(0557) 368 1008