



Test Report No.: W7L-P22110036RF06

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: W7L-P22110036RF06

4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

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The address and road map of all our labs can be found in our web site also.



Test Report No.: W7L-P22110036RF06

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



Test Report No.: W7L-P22110036RF06

6 APPENDIX

WCDMA BAND4

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	2.98	13	PASS
Band4	1413	2.88	13	PASS
Band4	1513	3.02	13	PASS

Test Graphs





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Test Report No.: W7L-P22110036RF06





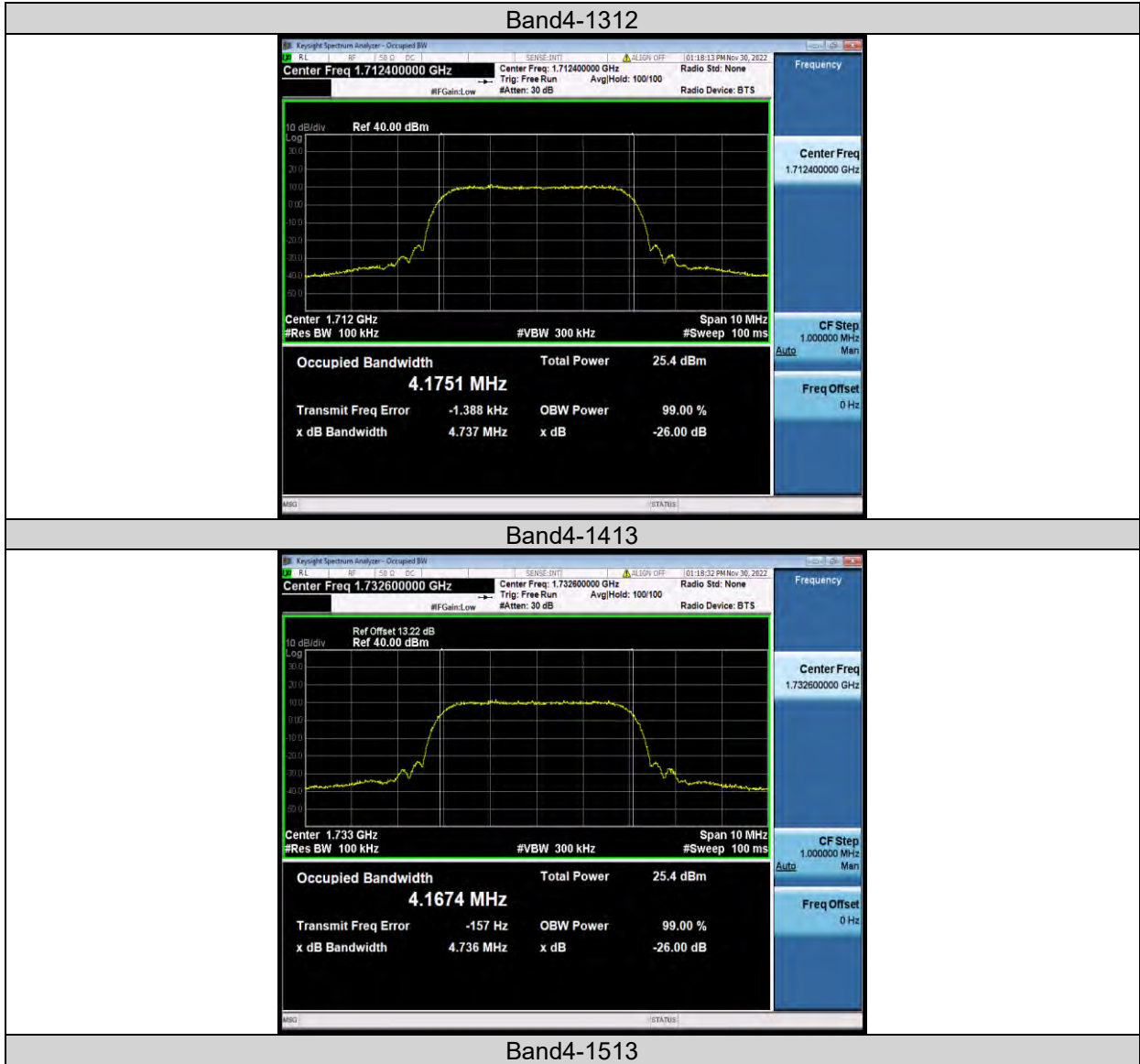
Test Report No.: W7L-P22110036RF06

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.1751	4.737	---	PASS
Band4	1413	4.1674	4.736	---	PASS
Band4	1513	4.1661	4.737	---	PASS

Test Graphs





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Test Report No.: W7L-P22110036RF06





Test Report No.: W7L-P22110036RF06

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1710.00	-27.15	-13	PASS
Band4	1513	1755.15	-27.24	-13	PASS



Test Report No.: W7L-P22110036RF06

Test Graphs





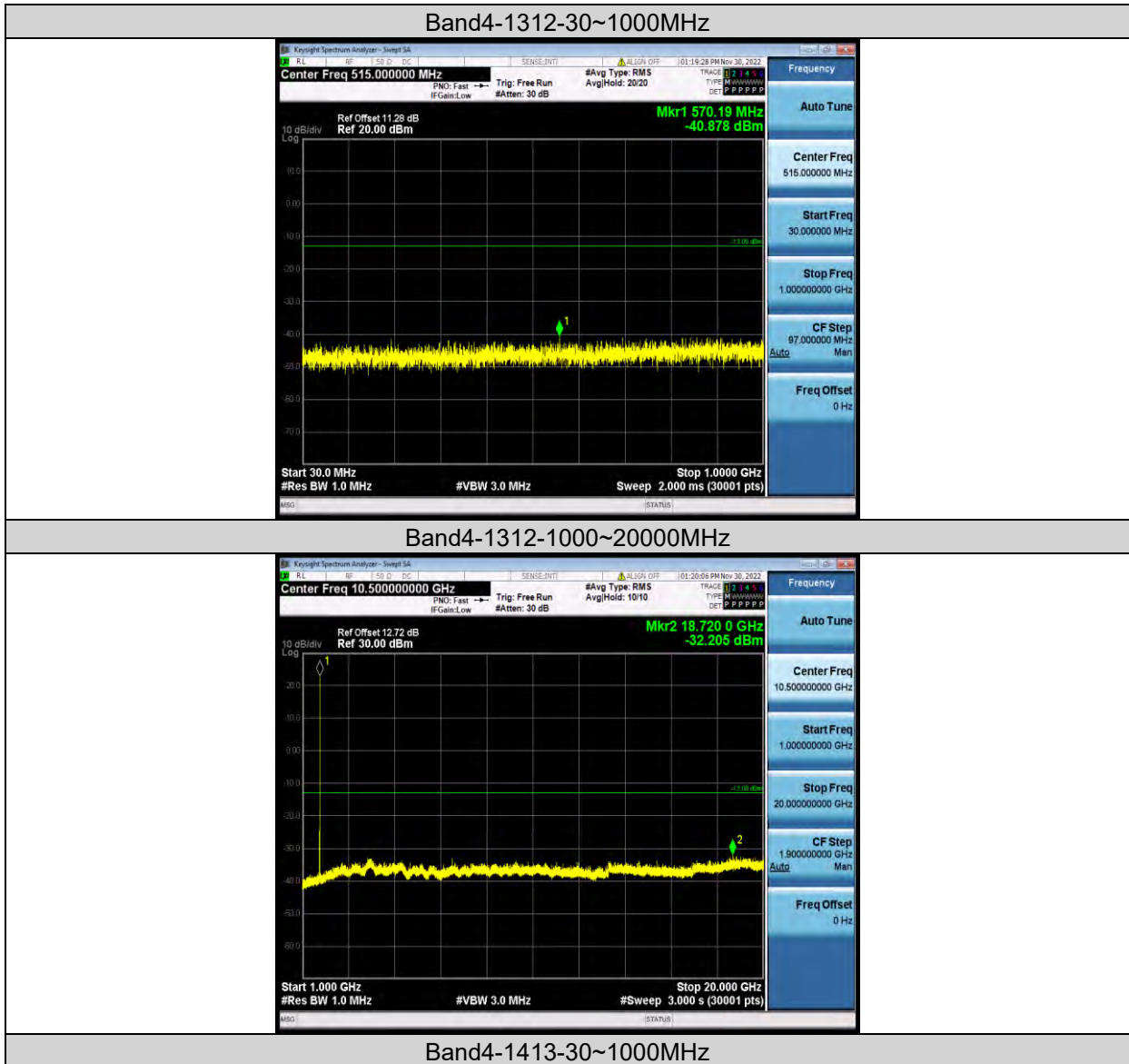
Test Report No.: W7L-P22110036RF06

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	30~1000MHz	570.19	-40.88	-13	PASS
Band4	1312	1000~20000MHz	18720.03	-32.21	-13	PASS
Band4	1413	30~1000MHz	955.12	-39.73	-13	PASS
Band4	1413	1000~20000MHz	19101.3	-31.76	-13	PASS
Band4	1513	30~1000MHz	872.38	-38.32	-13	PASS
Band4	1513	1000~20000MHz	19102.57	-31.85	-13	PASS

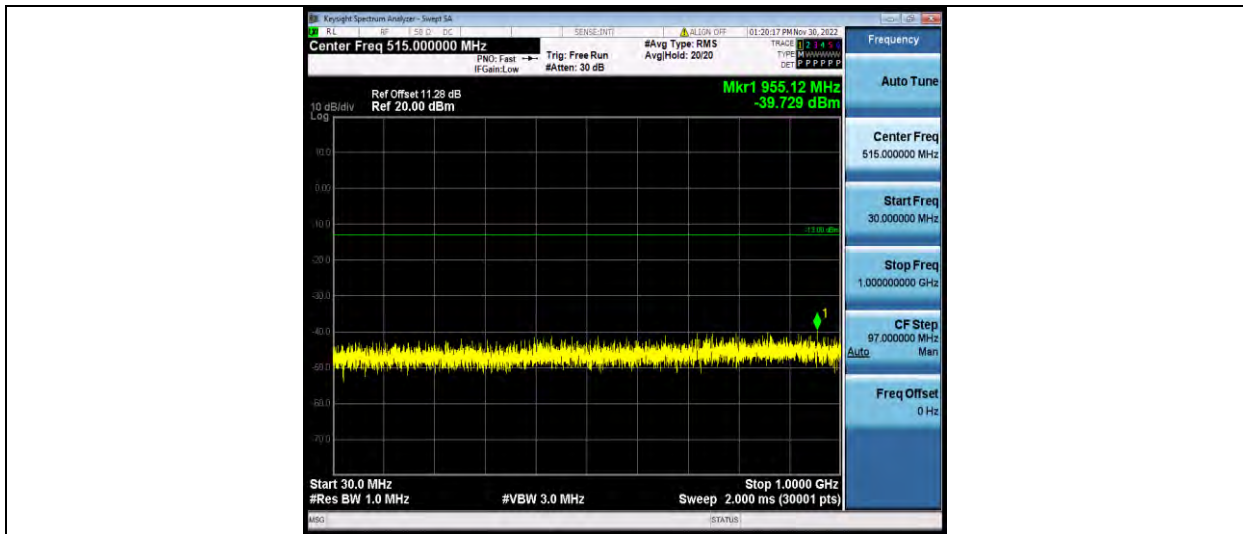
Test Graphs





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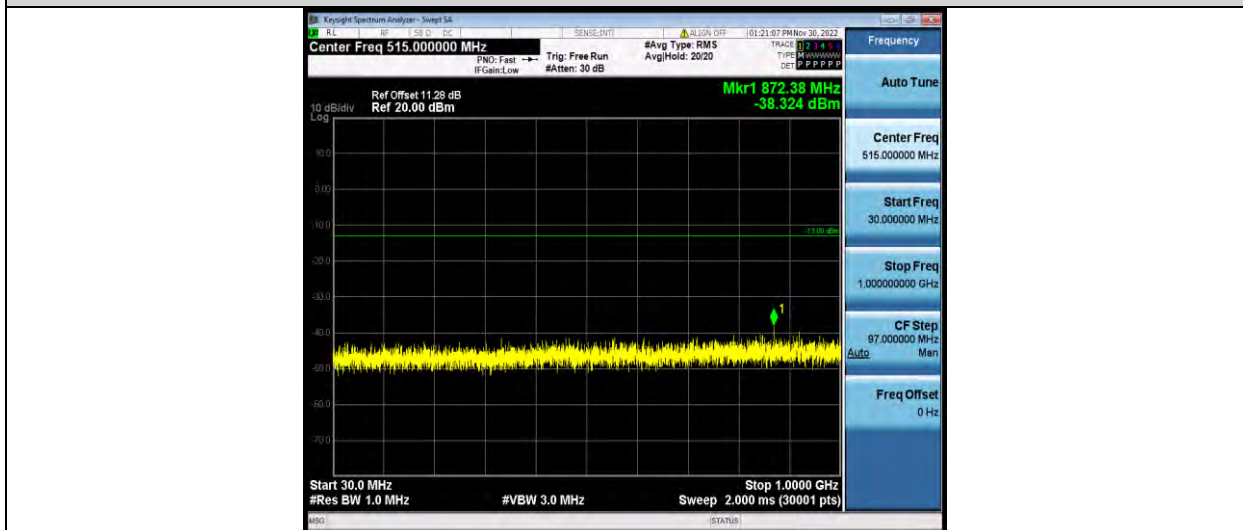
Test Report No.: W7L-P22110036RF06



Band4-1413-1000~20000MHz



Band4-1513-30~1000MHz



Band4-1513-1000~20000MHz



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Test Report No.: W7L-P22110036RF06





Test Report No.: W7L-P22110036RF06

FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VL	NT	10.04	0.005863	±2.5	PASS
Band4	1312	VN	NT	9.79	0.005717	±2.5	PASS
Band4	1312	VH	NT	9.85	0.005752	±2.5	PASS
Band4	1413	VL	NT	-2.98	-0.001720	±2.5	PASS
Band4	1413	VN	NT	-3.53	-0.002037	±2.5	PASS
Band4	1413	VH	NT	-3.39	-0.001957	±2.5	PASS
Band4	1513	VL	NT	-8.98	-0.005124	±2.5	PASS
Band4	1513	VN	NT	-8.88	-0.005067	±2.5	PASS
Band4	1513	VH	NT	-8.81	-0.005027	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	9.99	0.005834	±2.5	PASS
Band4	1312	NV	-20	10.26	0.005992	±2.5	PASS
Band4	1312	NV	0	10.06	0.005875	±2.5	PASS
Band4	1312	NV	10	9.88	0.005770	±2.5	PASS
Band4	1312	NV	20	10.23	0.005974	±2.5	PASS
Band4	1312	NV	30	10.03	0.005857	±2.5	PASS
Band4	1312	NV	40	10.39	0.006068	±2.5	PASS
Band4	1312	NV	50	10.54	0.006155	±2.5	PASS
Band4	1413	NV	-30	-3.20	-0.001847	±2.5	PASS
Band4	1413	NV	-20	-2.88	-0.001662	±2.5	PASS
Band4	1413	NV	0	-2.84	-0.001639	±2.5	PASS
Band4	1413	NV	10	-3.07	-0.001772	±2.5	PASS
Band4	1413	NV	20	-3.37	-0.001945	±2.5	PASS
Band4	1413	NV	30	-3.08	-0.001778	±2.5	PASS
Band4	1413	NV	40	-2.99	-0.001726	±2.5	PASS
Band4	1413	NV	50	-2.85	-0.001645	±2.5	PASS
Band4	1513	NV	-30	-8.73	-0.004981	±2.5	PASS
Band4	1513	NV	-20	-9.06	-0.005169	±2.5	PASS
Band4	1513	NV	0	-9.11	-0.005198	±2.5	PASS
Band4	1513	NV	10	-9.53	-0.005438	±2.5	PASS
Band4	1513	NV	20	-9.65	-0.005506	±2.5	PASS
Band4	1513	NV	30	-9.53	-0.005438	±2.5	PASS
Band4	1513	NV	40	-9.71	-0.005540	±2.5	PASS
Band4	1513	NV	50	-9.48	-0.005409	±2.5	PASS



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Test Report No.: W7L-P22110036RF06

LTE BAND7

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	3.54	13	PASS
Band7	5MHz	QPSK	20775	25RB#0	4.99	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	3.54	13	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.70	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	3.23	13	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.52	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	5.18	13	PASS
Band7	5MHz	16QAM	20775	25RB#0	5.78	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	5.06	13	PASS
Band7	5MHz	16QAM	21100	25RB#0	5.57	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	4.54	13	PASS
Band7	5MHz	16QAM	21425	25RB#0	5.35	13	PASS
Band7	5MHz	64QAM	20775	1RB#0	6.00	13	PASS
Band7	5MHz	64QAM	20775	25RB#0	6.42	13	PASS
Band7	5MHz	64QAM	21100	1RB#0	6.37	13	PASS
Band7	5MHz	64QAM	21100	25RB#0	6.51	13	PASS
Band7	5MHz	64QAM	21425	1RB#0	5.81	13	PASS
Band7	5MHz	64QAM	21425	25RB#0	6.17	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	3.47	13	PASS
Band7	10MHz	QPSK	20800	50RB#0	4.97	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	3.31	13	PASS
Band7	10MHz	QPSK	21100	50RB#0	4.67	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	3.25	13	PASS
Band7	10MHz	QPSK	21400	50RB#0	4.65	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	5.13	13	PASS
Band7	10MHz	16QAM	20800	50RB#0	5.83	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	4.81	13	PASS
Band7	10MHz	16QAM	21100	50RB#0	5.53	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	4.96	13	PASS
Band7	10MHz	16QAM	21400	50RB#0	5.50	13	PASS
Band7	10MHz	64QAM	20800	1RB#0	6.21	13	PASS
Band7	10MHz	64QAM	20800	50RB#0	6.51	13	PASS
Band7	10MHz	64QAM	21100	1RB#0	5.95	13	PASS
Band7	10MHz	64QAM	21100	50RB#0	6.46	13	PASS
Band7	10MHz	64QAM	21400	1RB#0	6.08	13	PASS
Band7	10MHz	64QAM	21400	50RB#0	6.25	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	3.44	13	PASS
Band7	15MHz	QPSK	20825	75RB#0	5.22	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	3.36	13	PASS
Band7	15MHz	QPSK	21100	75RB#0	4.99	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	3.48	13	PASS
Band7	15MHz	QPSK	21375	75RB#0	5.04	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	4.94	13	PASS
Band7	15MHz	16QAM	20825	75RB#0	5.95	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	5.16	13	PASS
Band7	15MHz	16QAM	21100	75RB#0	5.73	13	PASS

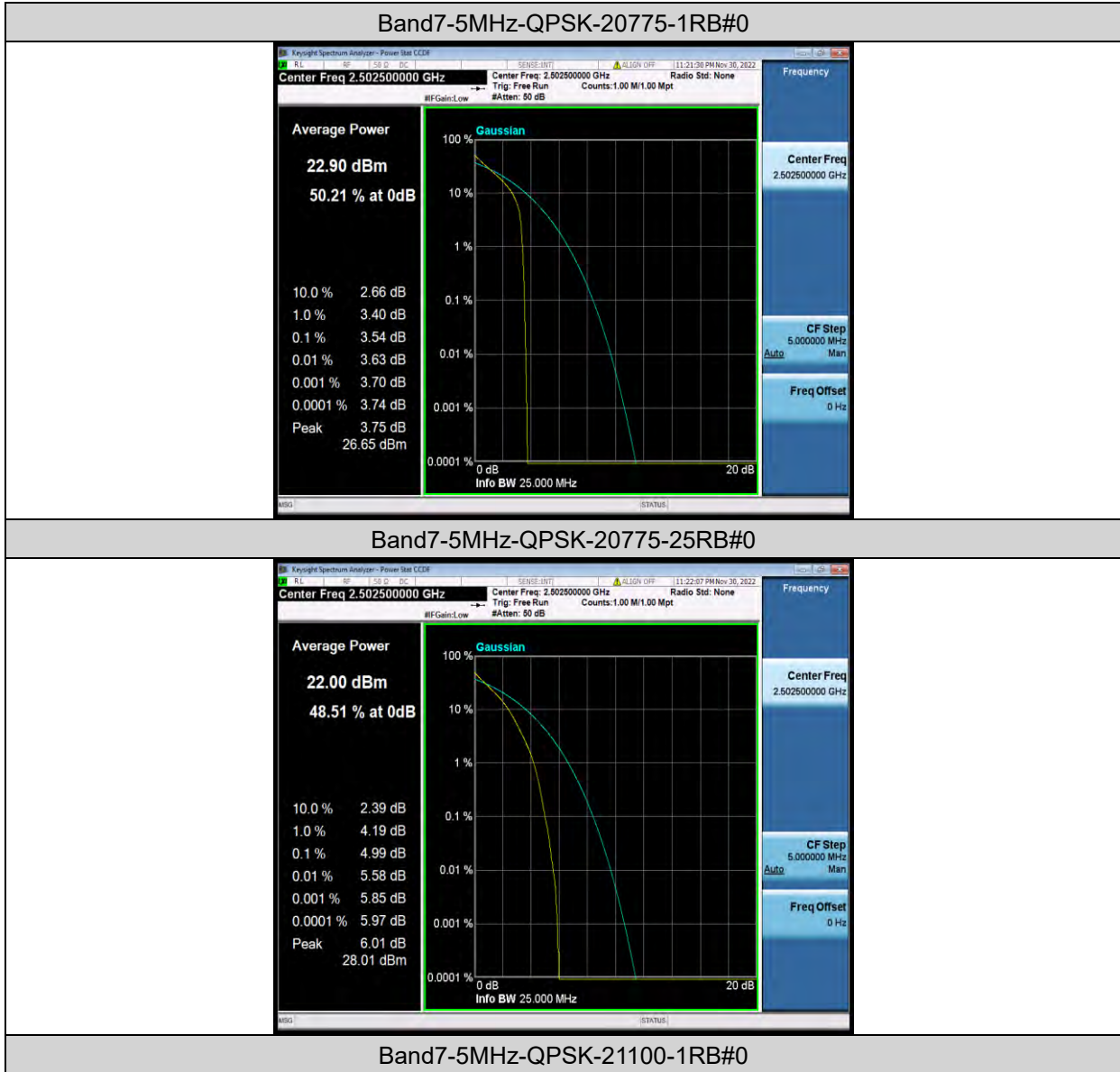


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Test Report No.: W7L-P22110036RF06

Band7	15MHz	16QAM	21375	1RB#0	5.19	13	PASS
Band7	15MHz	16QAM	21375	75RB#0	5.80	13	PASS
Band7	15MHz	64QAM	20825	1RB#0	5.95	13	PASS
Band7	15MHz	64QAM	20825	75RB#0	6.53	13	PASS
Band7	15MHz	64QAM	21100	1RB#0	8.36	13	PASS
Band7	15MHz	64QAM	21100	75RB#0	6.53	13	PASS
Band7	15MHz	64QAM	21375	1RB#0	6.64	13	PASS
Band7	15MHz	64QAM	21375	75RB#0	6.41	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	3.45	13	PASS
Band7	20MHz	QPSK	20850	100RB#0	5.08	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	3.51	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	4.91	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	3.49	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.96	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	5.16	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.88	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	4.98	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.71	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.29	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.81	13	PASS
Band7	20MHz	64QAM	20850	1RB#0	6.32	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.56	13	PASS
Band7	20MHz	64QAM	21100	1RB#0	6.21	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.55	13	PASS
Band7	20MHz	64QAM	21350	1RB#0	6.50	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.43	13	PASS

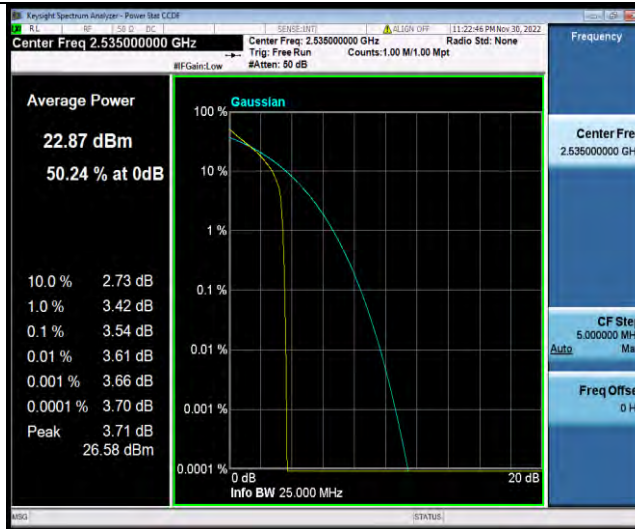
Test Graphs



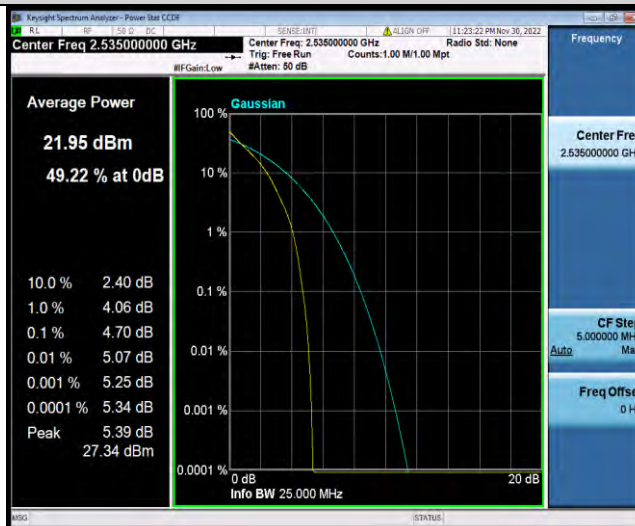


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Test Report No.: W7L-P22110036RF06



Band7-5MHz-QPSK-21100-25RB#0



Band7-5MHz-QPSK-21425-1RB#0

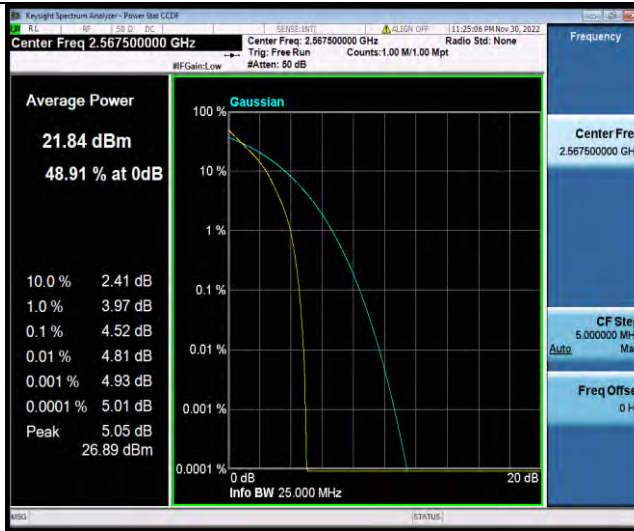


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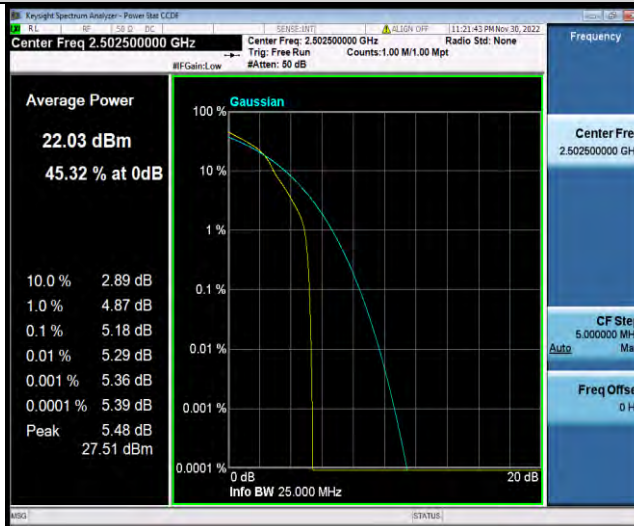


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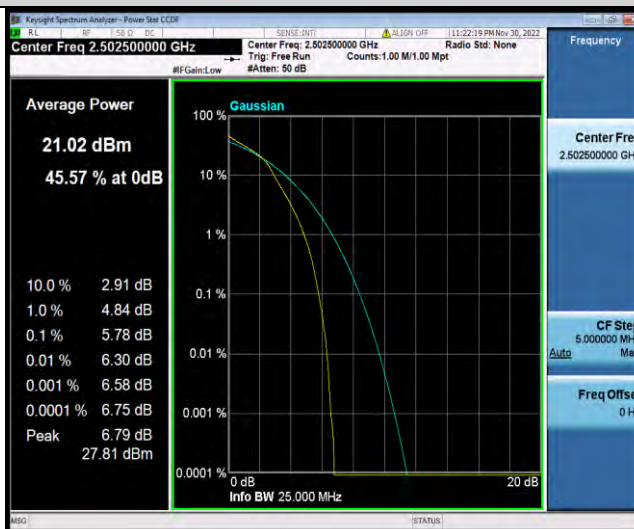
Test Report No.: W7L-P22110036RF06



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Band7-5MHz-16QAM-20775-25RB#0



Band7-5MHz-16QAM-21100-1RB#0

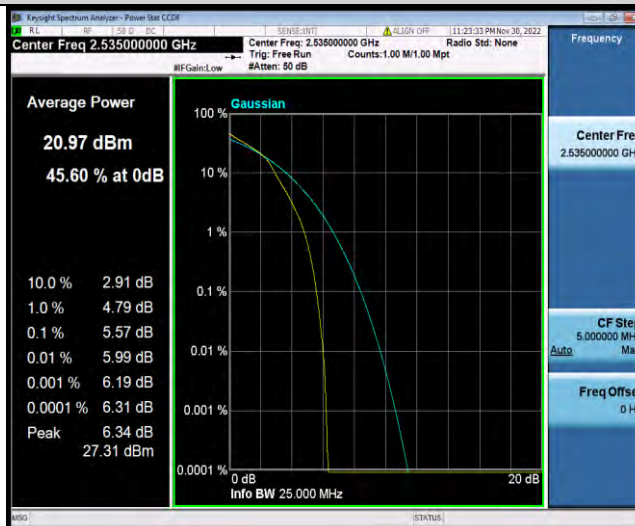


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Test Report No.: W7L-P22110036RF06



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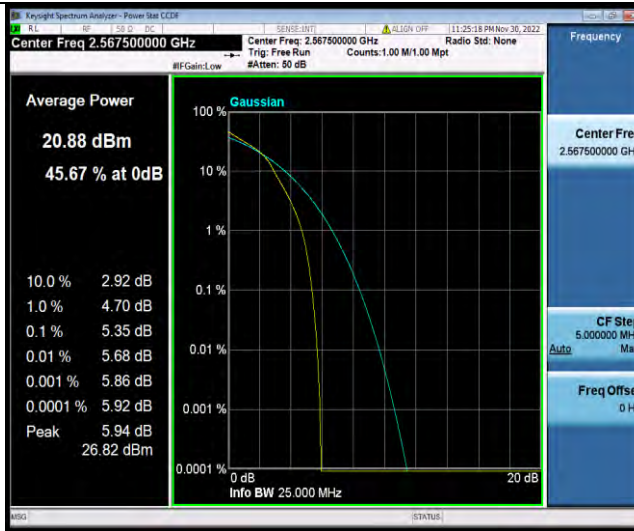


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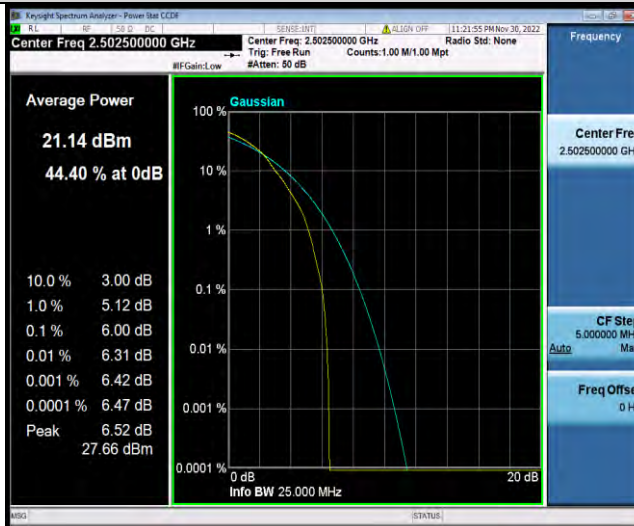


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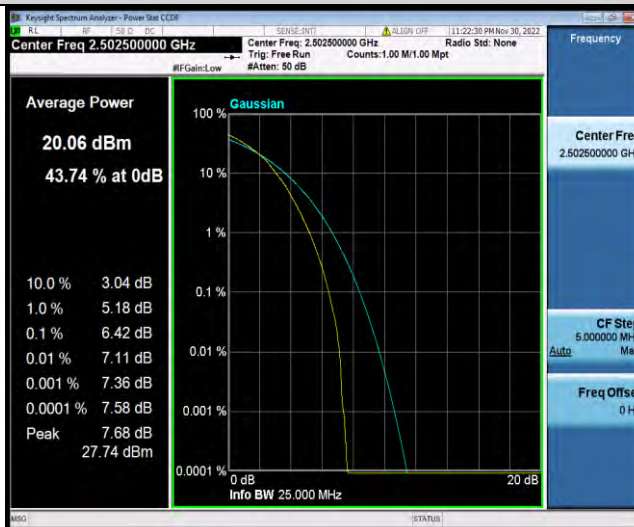
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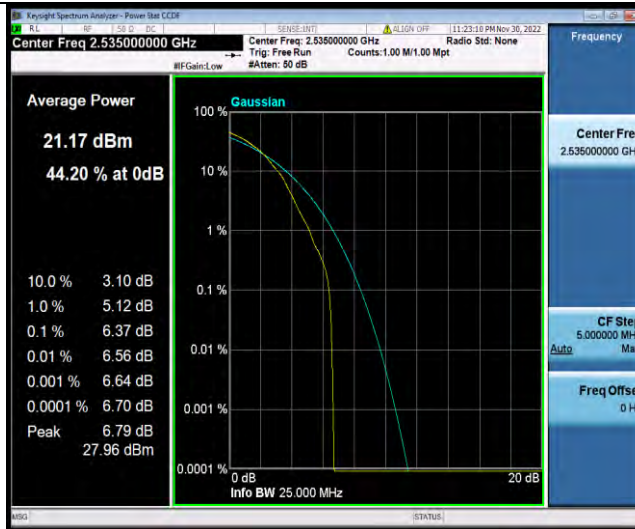


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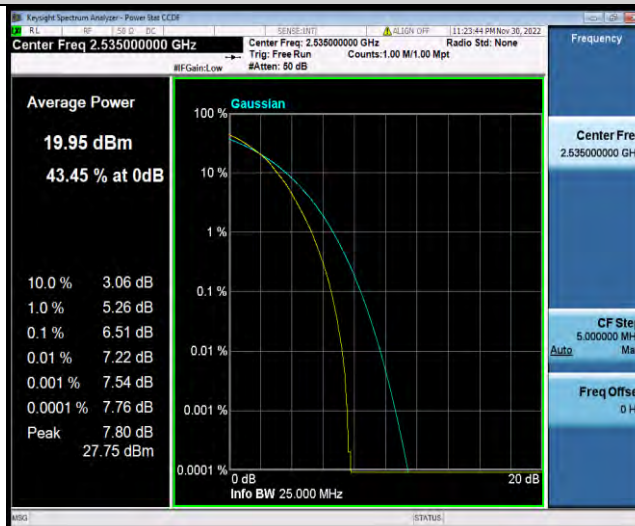


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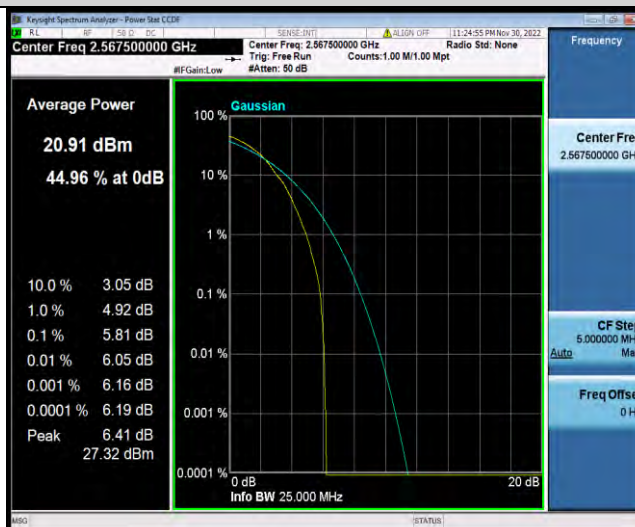
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Band7-5MHz-64QAM-21425-25RB#0



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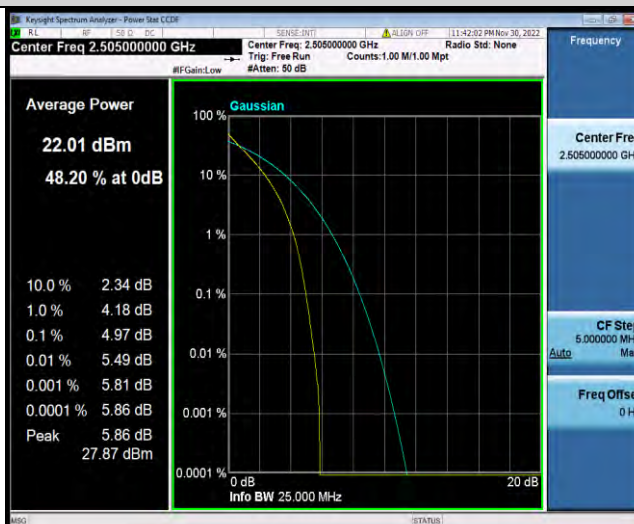
Test Report No.: W7L-P22110036RF06



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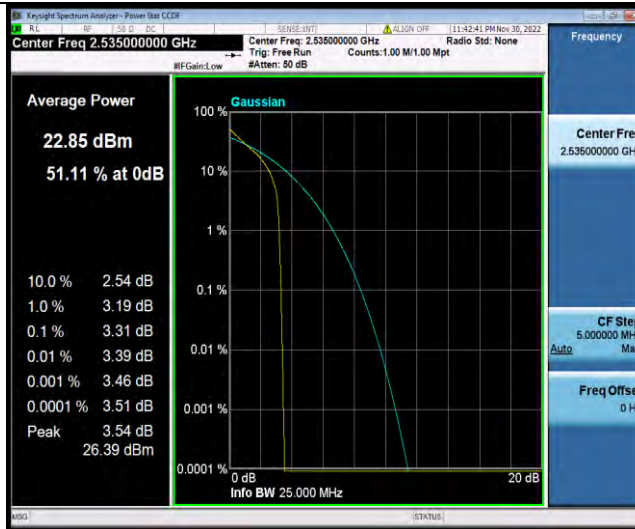


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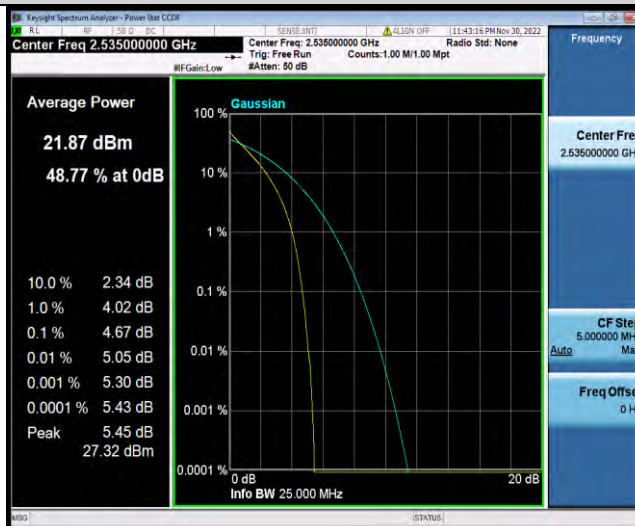


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Test Report No.: W7L-P22110036RF06



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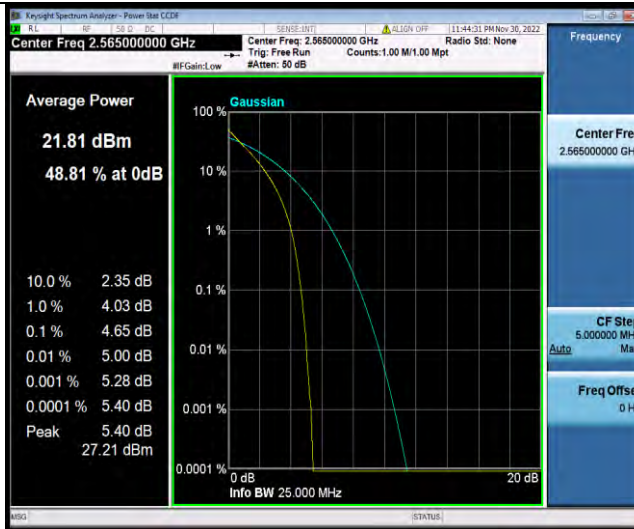


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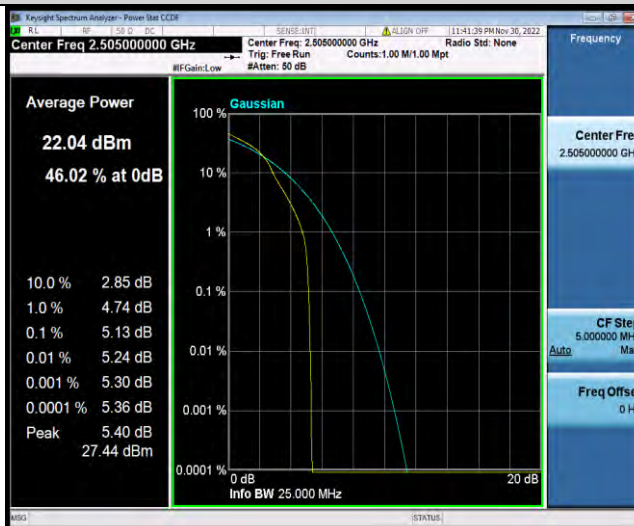


BUREAU VERITAS

Test Report No.: W7L-P22110036RF06



Band7-10MHz-16QAM-20800-1RB#0



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

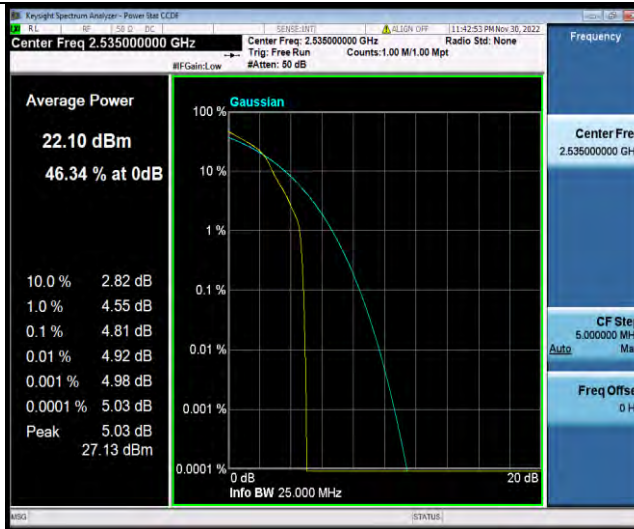


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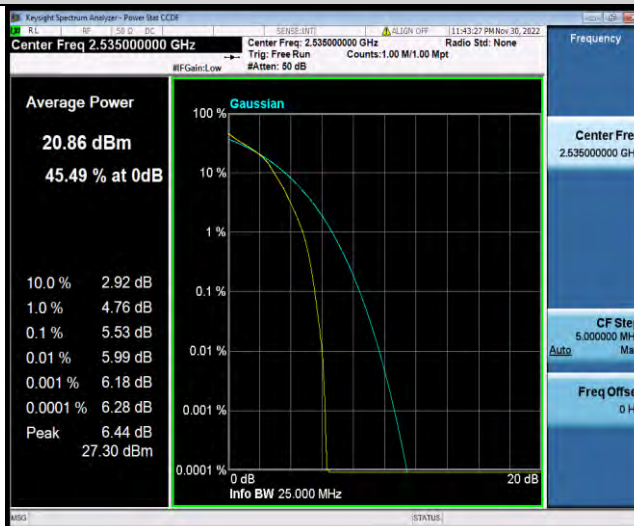


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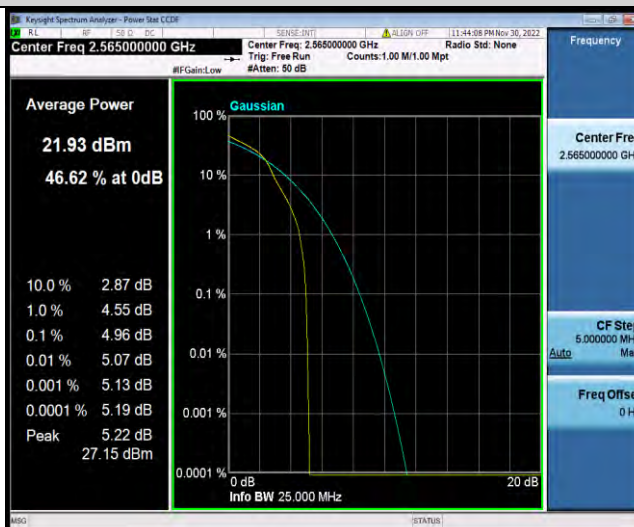
Test Report No.: W7L-P22110036RF06



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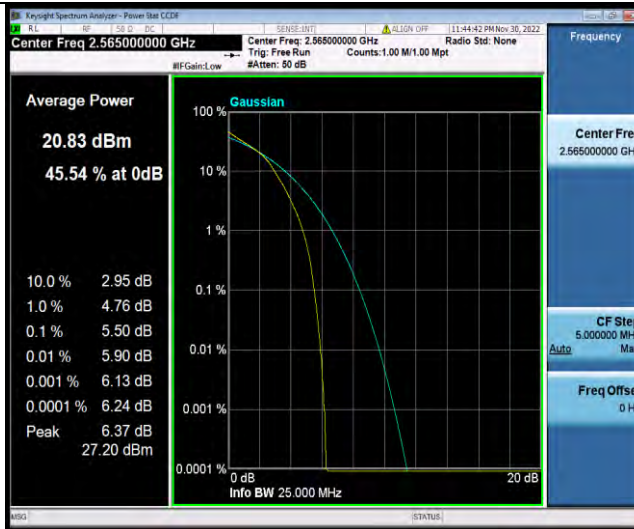


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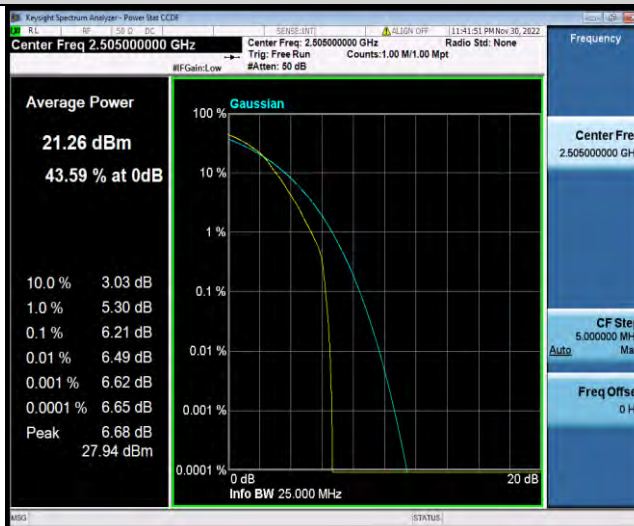


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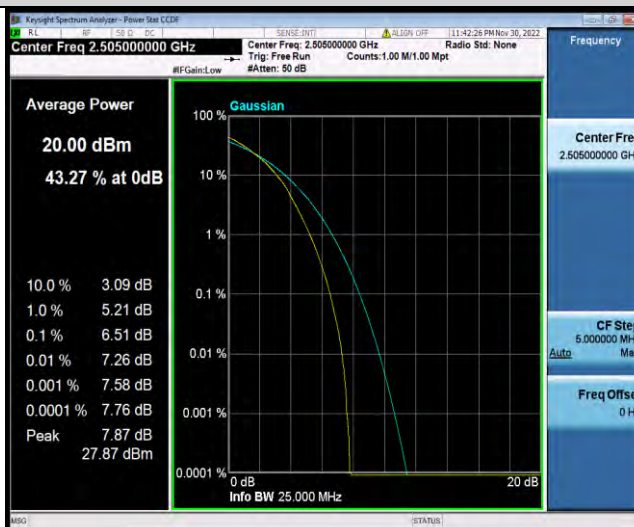
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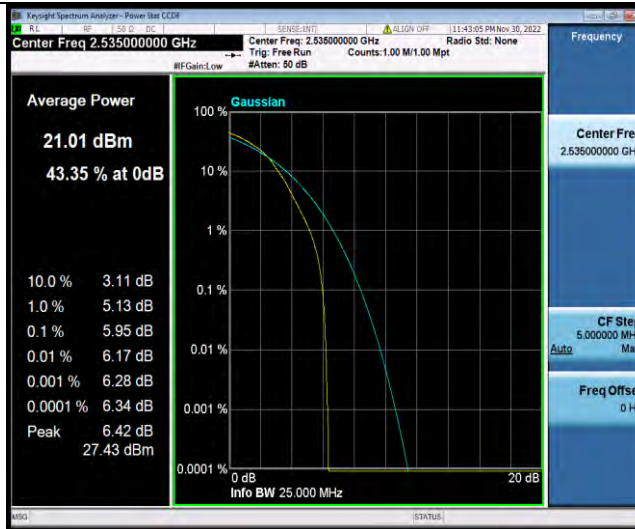


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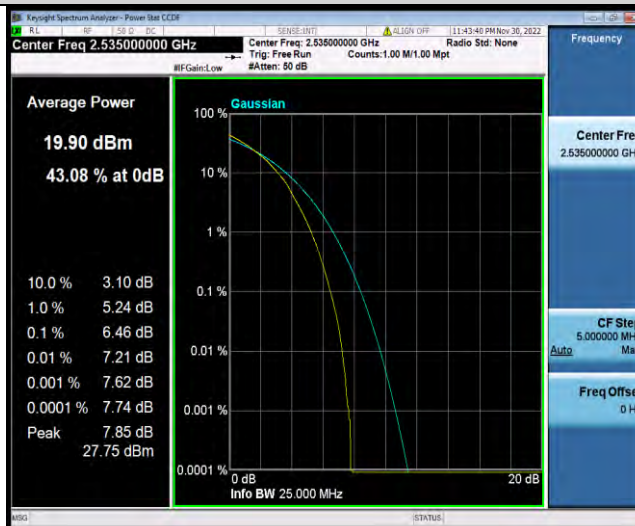


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Test Report No.: W7L-P22110036RF06



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Band7-10MHz-64QAM-21400-1RB#0

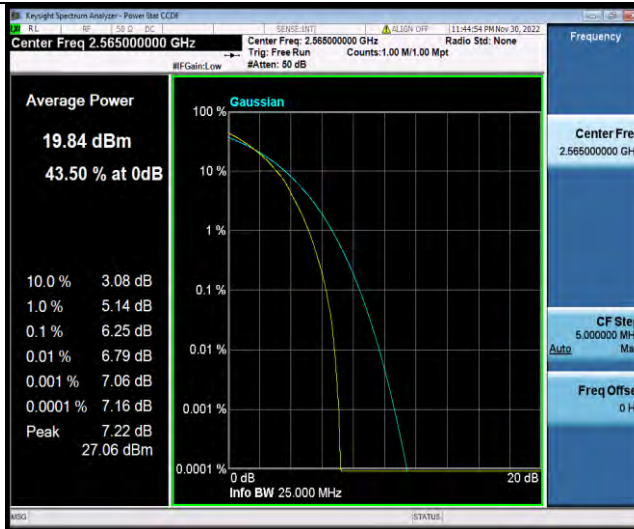


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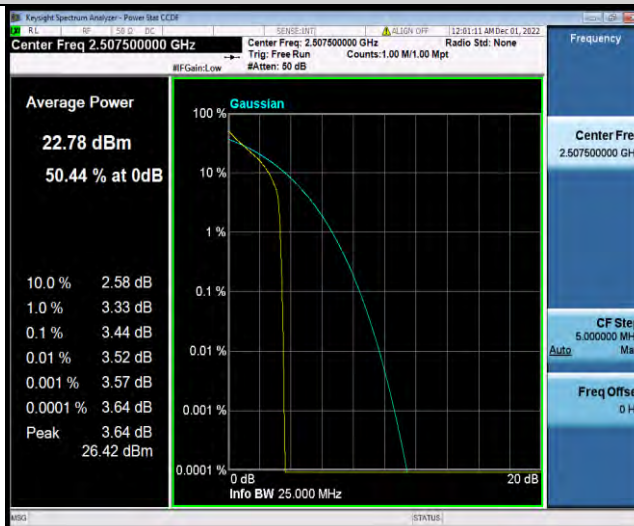


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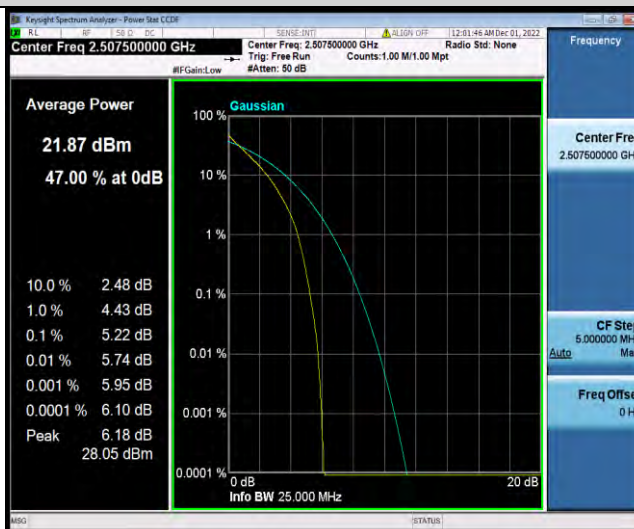
Test Report No.: W7L-P22110036RF06



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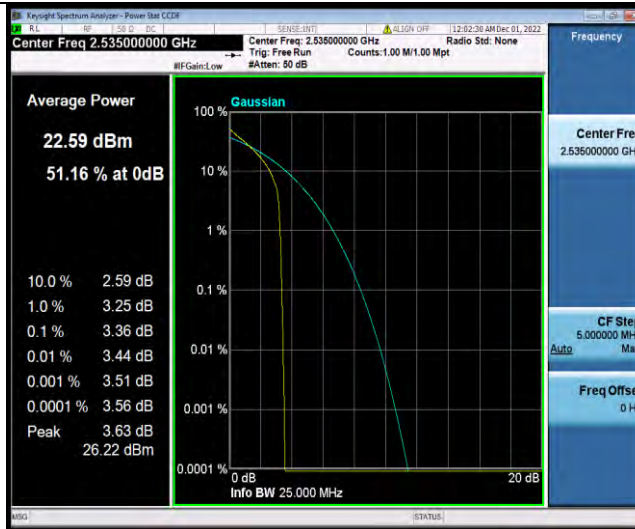


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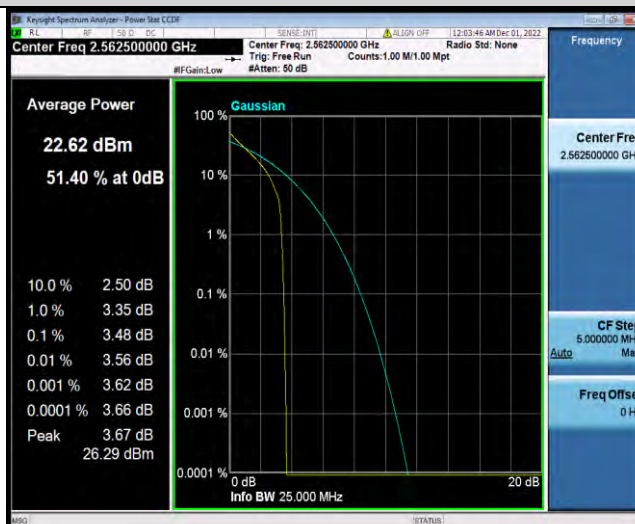
Test Report No.: W7L-P22110036RF06



Band7-15MHz-QPSK-21100-75RB#0



Band7-15MHz-QPSK-21375-1RB#0

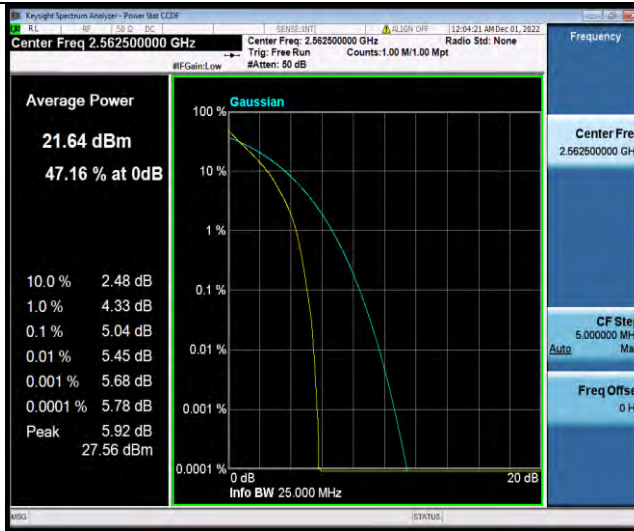


Band7-15MHz-QPSK-21375-75RB#0



BUREAU VERITAS

Test Report No.: W7L-P22110036RF06



Band7-15MHz-16QAM-20825-1RB#0



Band7-15MHz-16QAM-20825-75RB#0

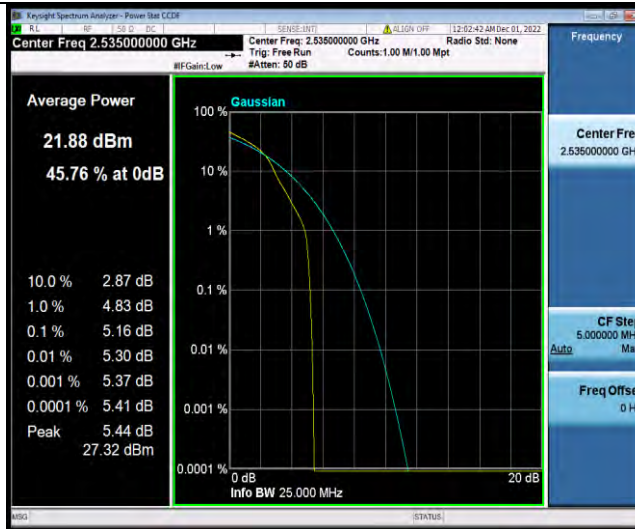


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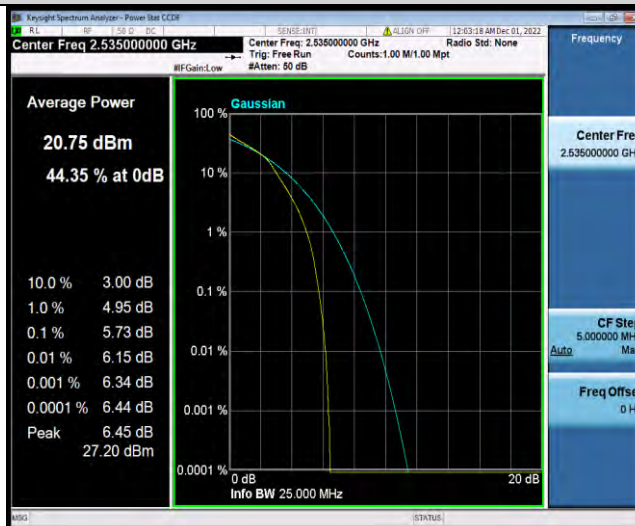


BUREAU VERITAS

Test Report No.: W7L-P22110036RF06



Band7-15MHz-16QAM-21100-75RB#0



Band7-15MHz-16QAM-21375-1RB#0

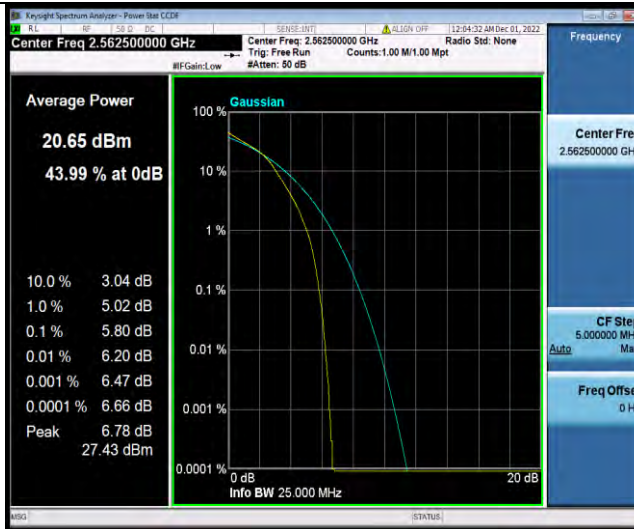


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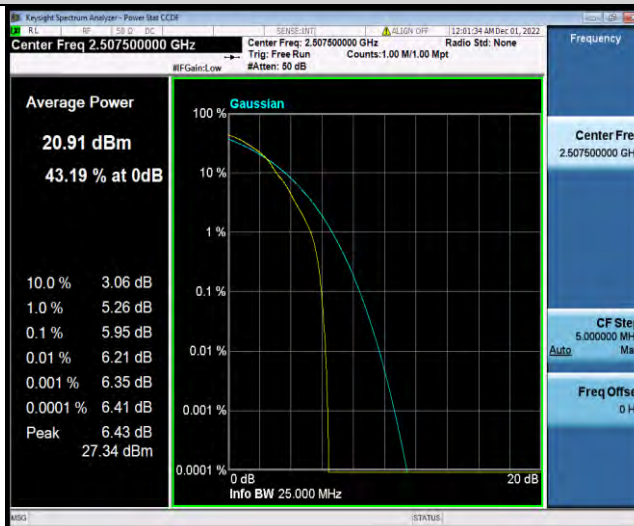


BUREAU VERITAS

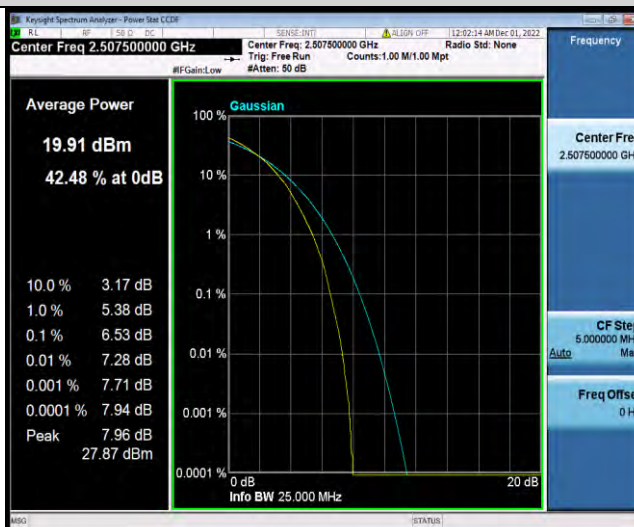
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Band7-15MHz-64QAM-20825-1RB#0



Band7-15MHz-64QAM-20825-75RB#0

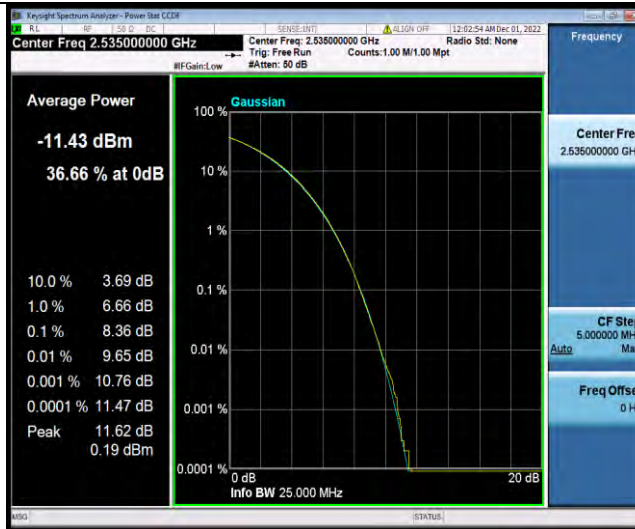


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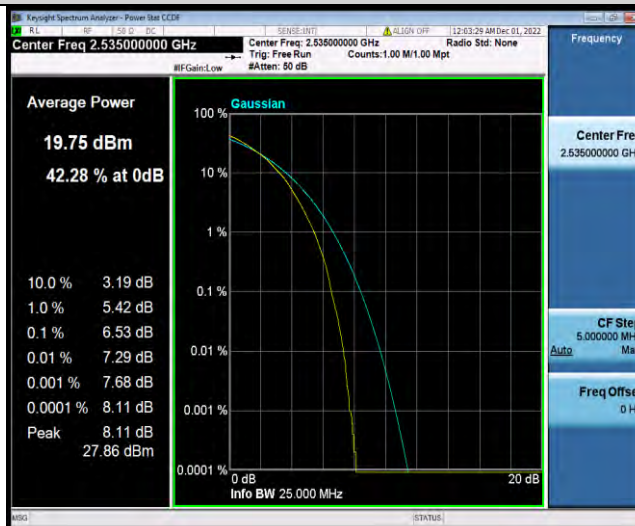


BUREAU VERITAS

Test Report No.: W7L-P22110036RF06



Band7-15MHz-64QAM-21100-75RB#0



Band7-15MHz-64QAM-21375-1RB#0



Band7-15MHz-64QAM-21375-75RB#0



BUREAU VERITAS

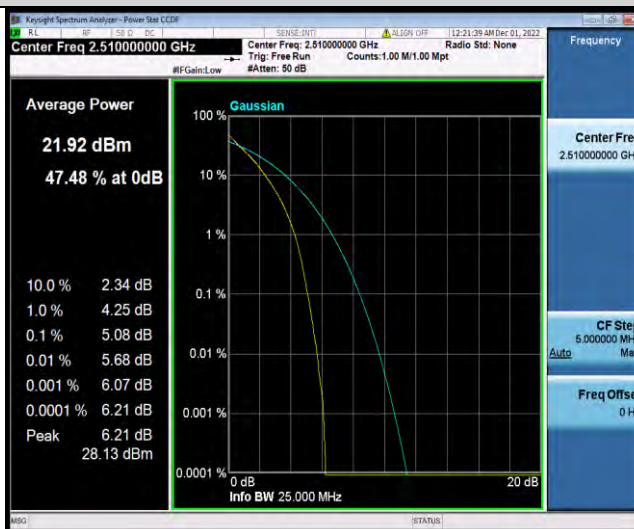
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Band7-20MHz-QPSK-20850-1RB#0



Band7-20MHz-QPSK-20850-100RB#0

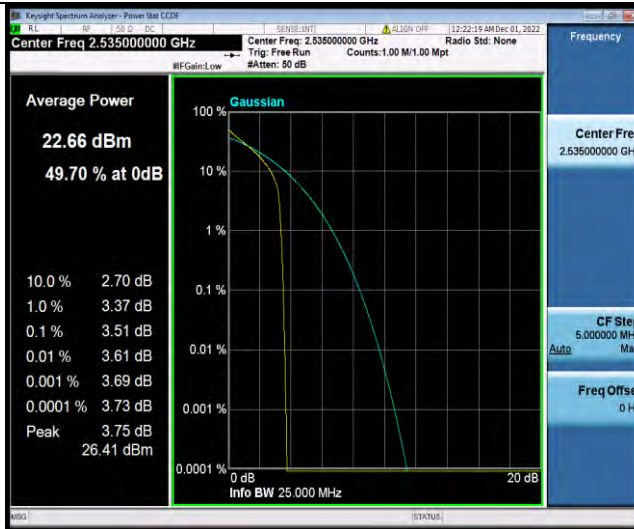


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BUREAU VERITAS

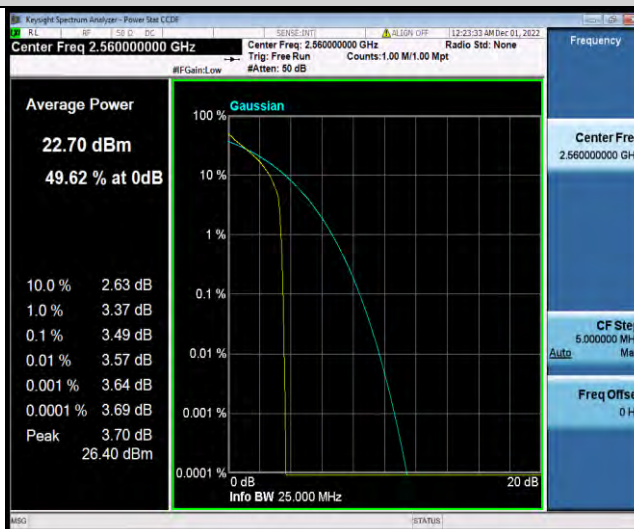
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Band7-20MHz-QPSK-21350-100RB#0

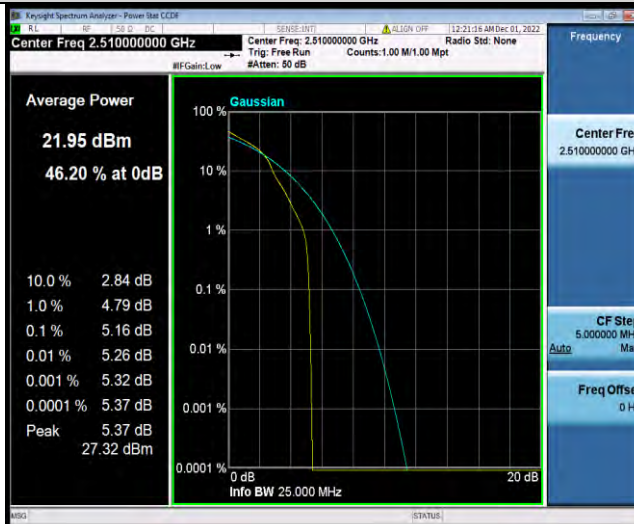


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VERITAS

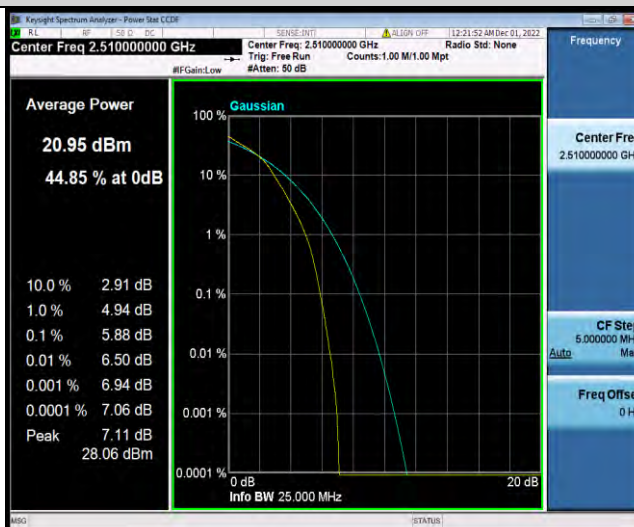
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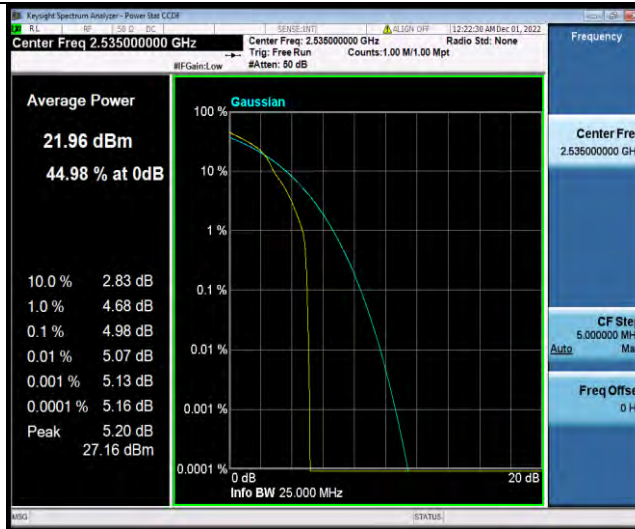


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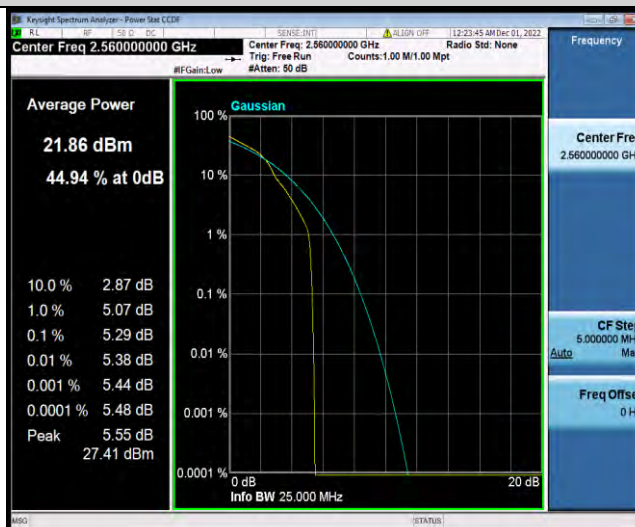
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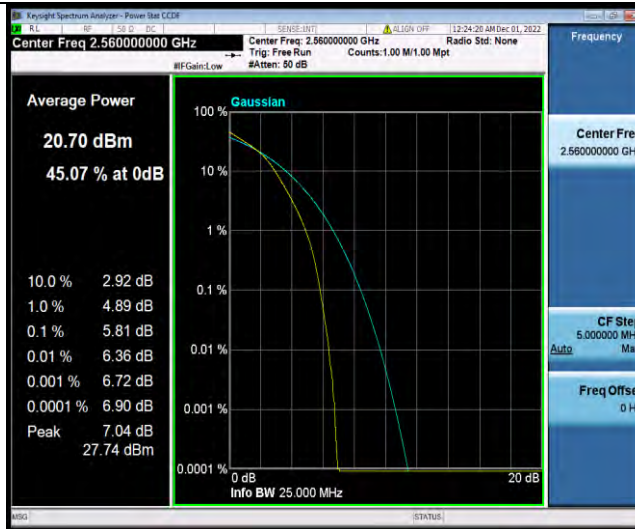


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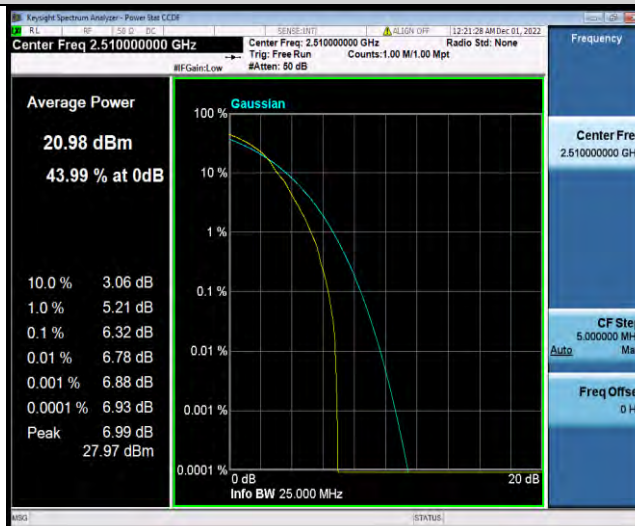


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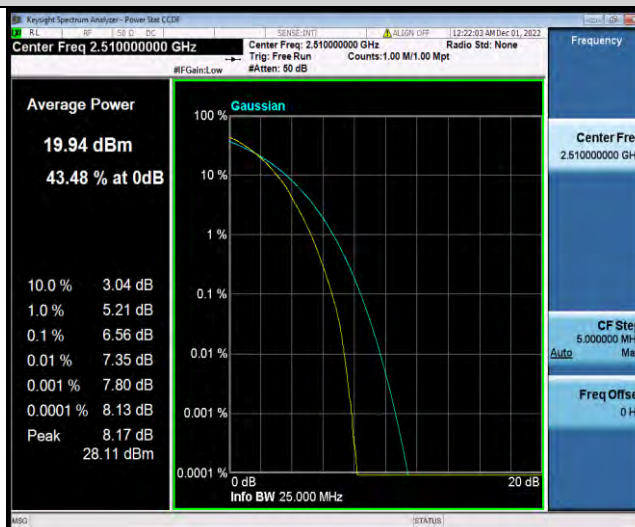
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Band7-20MHz-64QAM-20850-1RB#0



Band7-20MHz-64QAM-20850-100RB#0

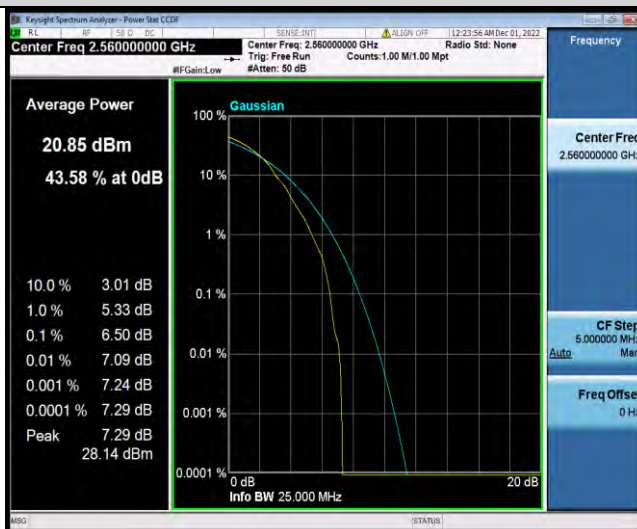
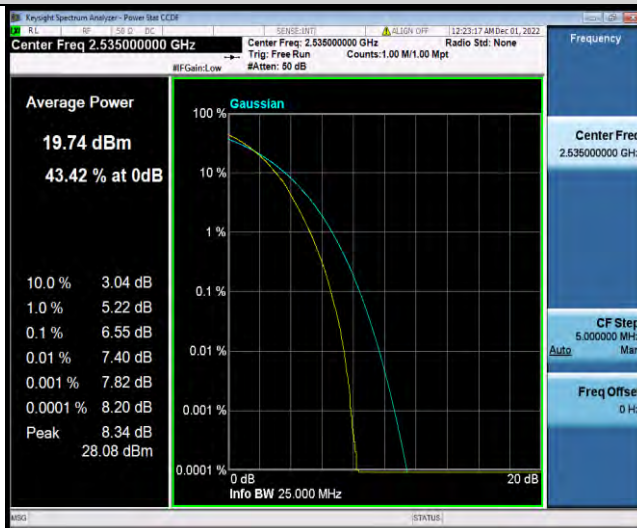
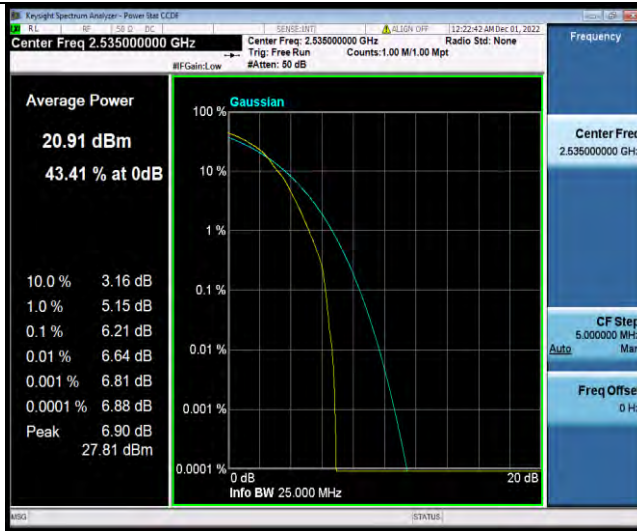


Band7-20MHz-64QAM-21100-1RB#0



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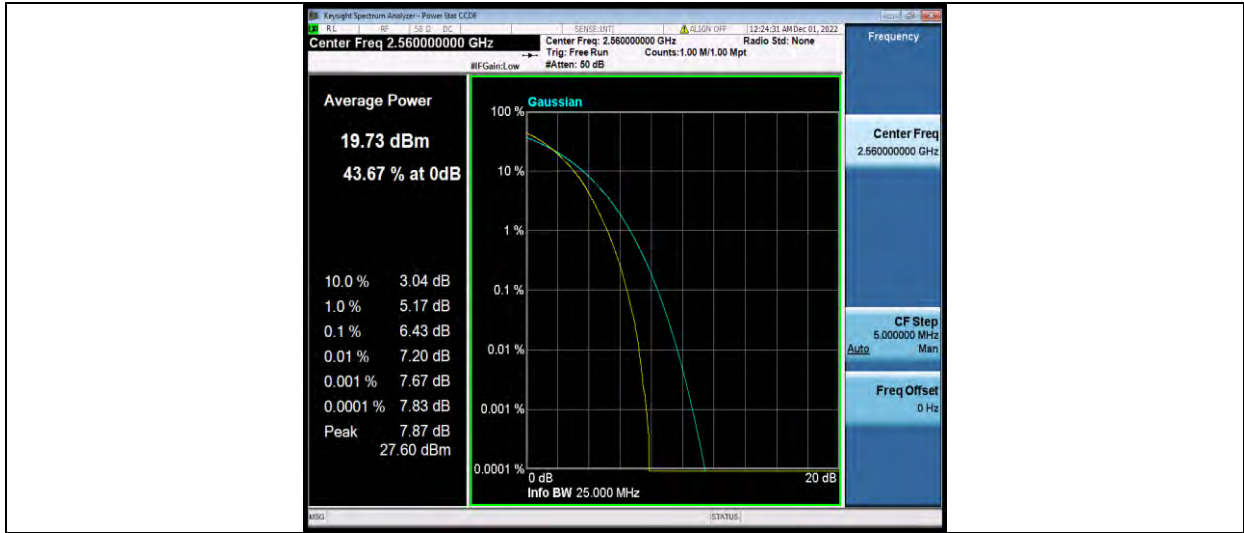
Test Report No.: W7L-P22110036RF06





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VERITAS

Test Report No.: W7L-P22110036RF06





Test Report No.: W7L-P22110036RF06

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.4941	4.835	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.4990	4.861	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.4970	4.842	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5011	4.828	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5021	4.829	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5020	4.804	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.4939	4.834	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.4999	4.863	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.4936	4.838	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9886	9.556	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9715	9.519	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9714	9.567	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9720	9.548	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9809	9.528	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9714	9.526	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.9671	9.525	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.9830	9.543	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.9738	9.541	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.464	14.31	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.463	14.32	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.436	14.27	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.460	14.28	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.467	14.28	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.444	14.27	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.457	14.27	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.464	14.27	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.448	14.27	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.954	18.97	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.934	19.02	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.920	18.95	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.940	18.96	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.947	18.99	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.921	18.96	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.947	18.98	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.941	18.93	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.912	18.93	PASS