

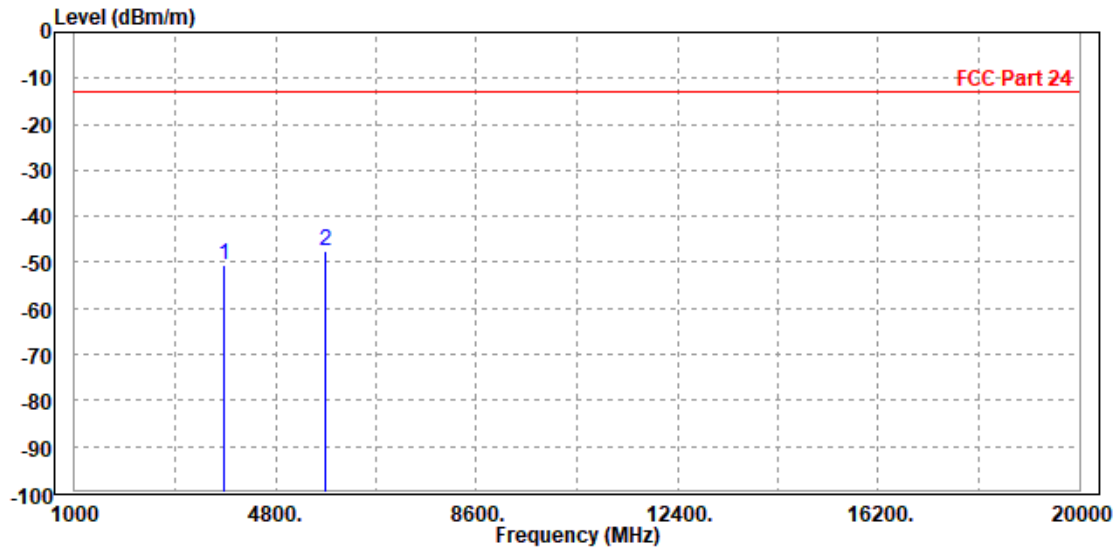


**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3815.200	-50.57	-58.35	-13.00	-37.57	7.78	Peak	Vertical
2 PP	5731.000	-47.57	-58.96	-13.00	-34.57	11.39	Peak	Vertical





Test Report No.: W7L-221220W001RF02

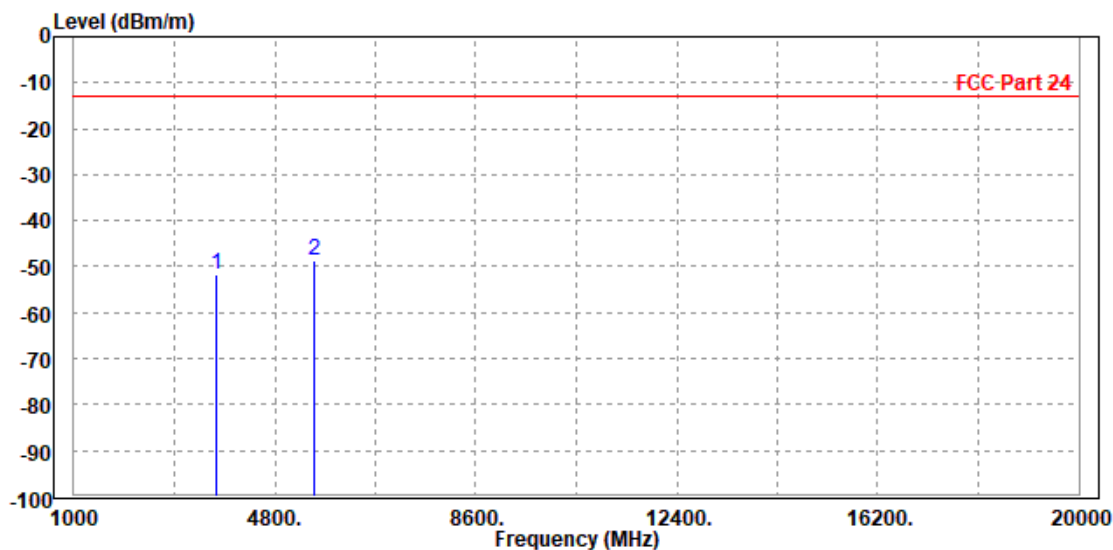
LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH 18607

MODE	TX channel 18607	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3698.000	-51.78	-59.61	-13.00	-38.78	7.83	Peak	Horizontal
2 PP	5552.100	-48.76	-59.33	-13.00	-35.76	10.57	Peak	Horizontal



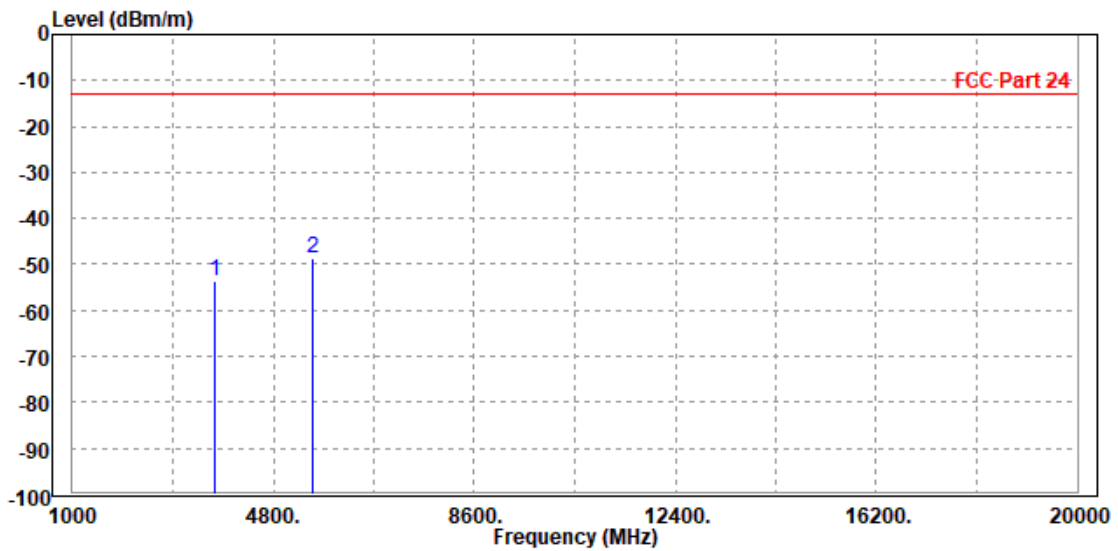


**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

MODE	TX channel 18607	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3701.400	-53.46	-61.07	-13.00	-40.46	7.61	Peak	Vertical
2 PP	5560.000	-48.60	-59.50	-13.00	-35.60	10.90	Peak	Vertical



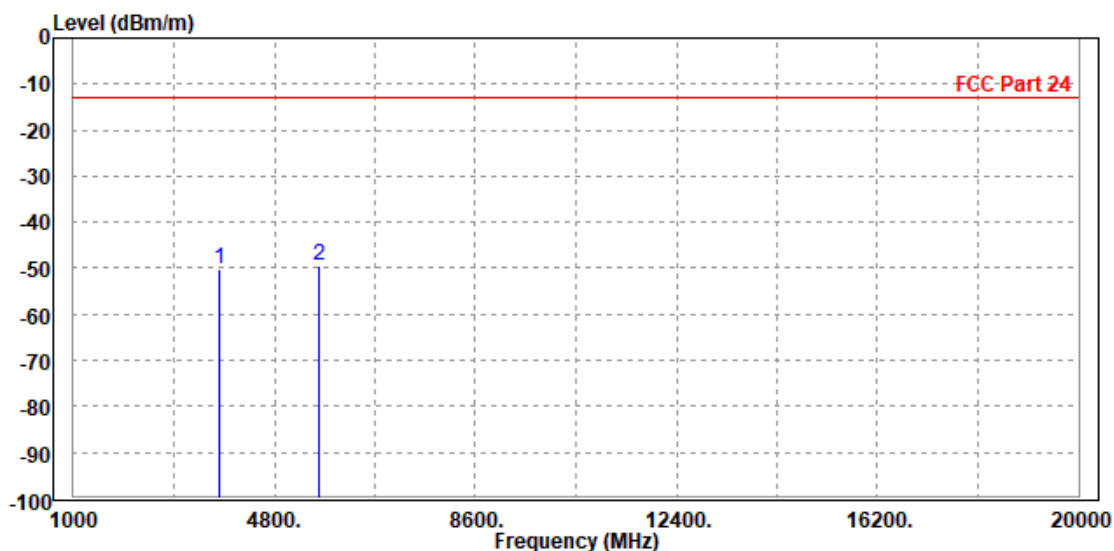


Test Report No.: W7L-221220W001RF02

CH 18900

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-50.32	-58.31	-13.00	-37.32	7.99	Peak	Horizontal
2 PP	5636.000	-49.45	-60.18	-13.00	-36.45	10.73	Peak	Horizontal



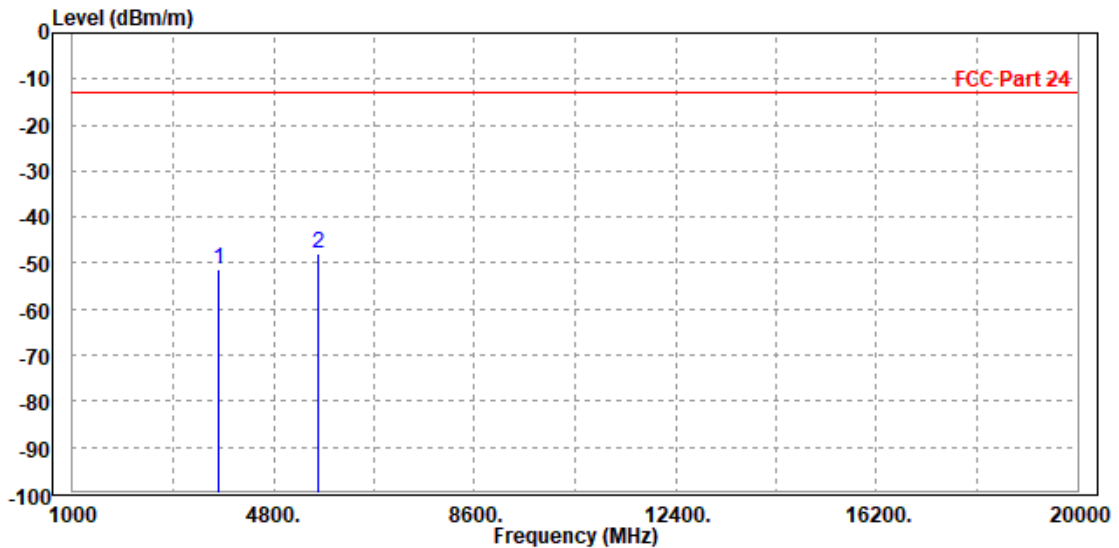


**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.42	-59.11	-13.00	-38.42	7.69	Peak	Vertical
2 PP	5640.000	-48.00	-59.13	-13.00	-35.00	11.13	Peak	Vertical





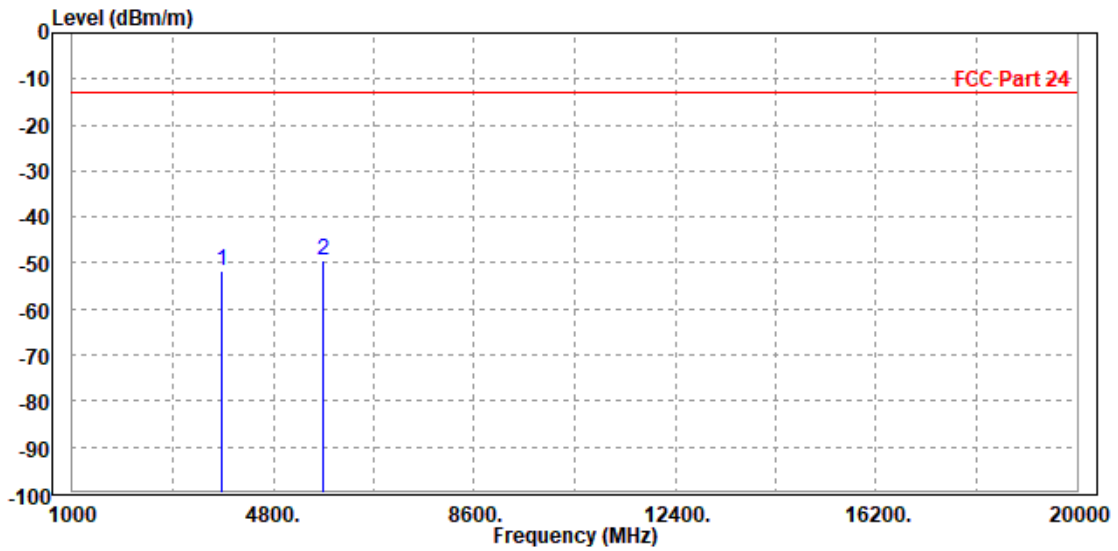
**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

CH 19193

MODE	TX channel 19193	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3818.600	-51.74	-59.88	-13.00	-38.74	8.14	Peak	Horizontal
2 PP	5731.000	-49.44	-60.35	-13.00	-36.44	10.91	Peak	Horizontal



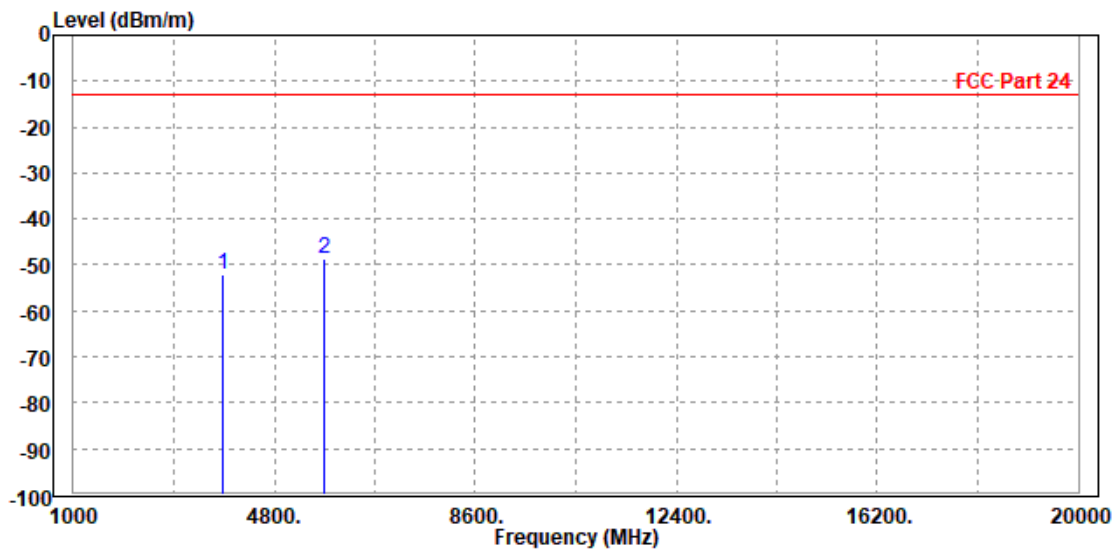


**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

MODE	TX channel 19193	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-51.97	-59.74	-13.00	-38.97	7.77	Peak	Vertical
2 PP	5727.900	-48.77	-60.15	-13.00	-35.77	11.38	Peak	Vertical





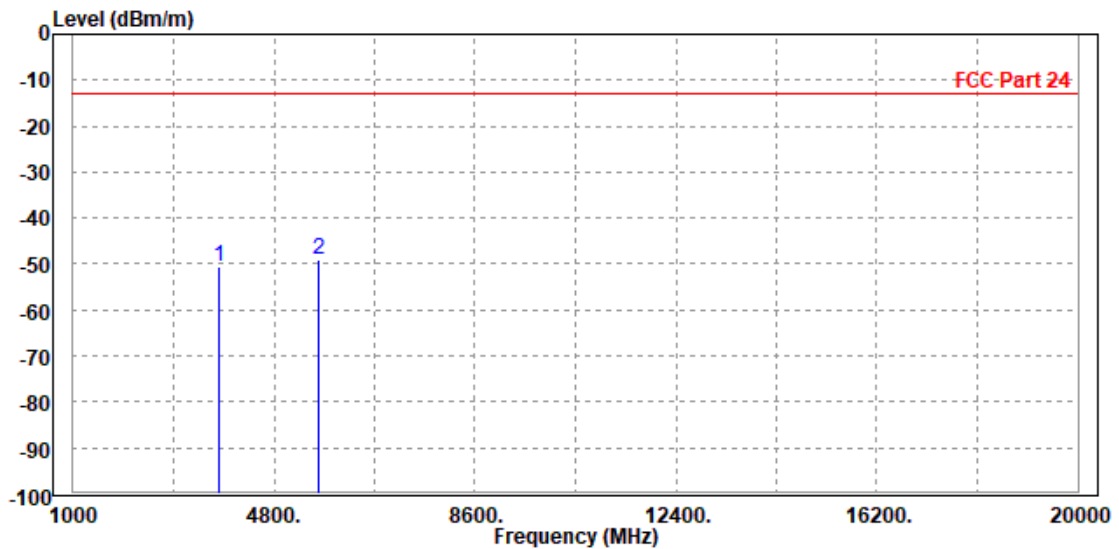
**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-50.76	-58.74	-13.00	-37.76	7.98	Peak	Horizontal
2 PP	5640.000	-49.10	-59.84	-13.00	-36.10	10.74	Peak	Horizontal



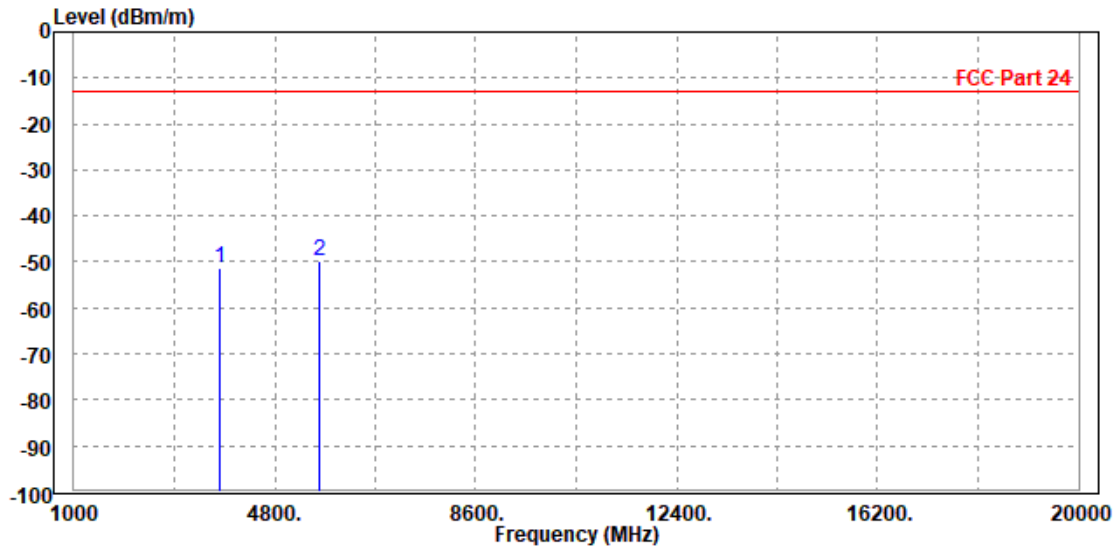


**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-51.37	-59.07	-13.00	-38.37	7.70	Peak	Vertical
2 PP	5636.000	-49.62	-60.74	-13.00	-36.62	11.12	Peak	Vertical





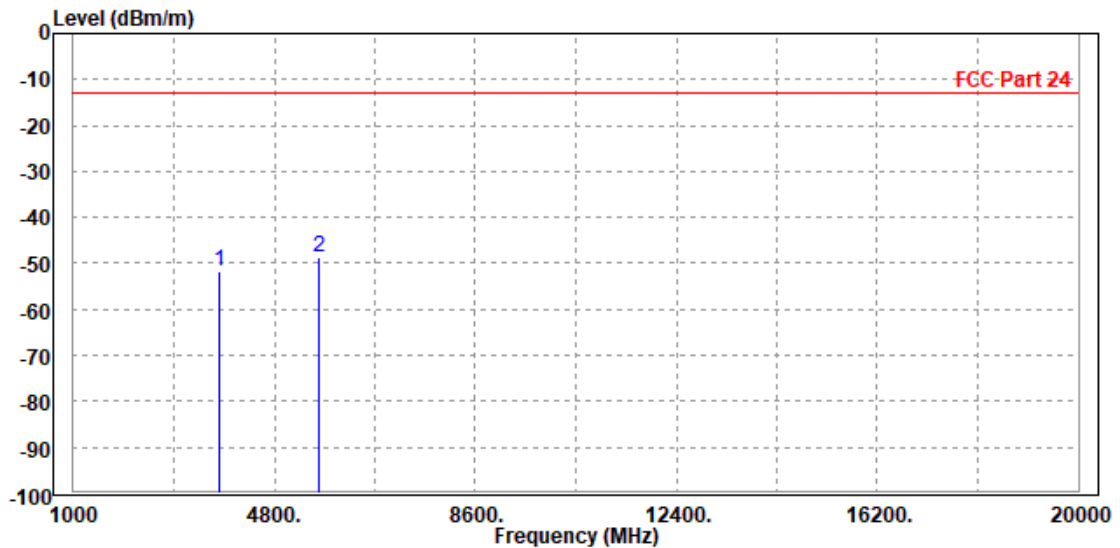
**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-51.85	-59.84	-13.00	-38.85	7.99	Peak	Horizontal
2 PP	5636.000	-48.67	-59.40	-13.00	-35.67	10.73	Peak	Horizontal



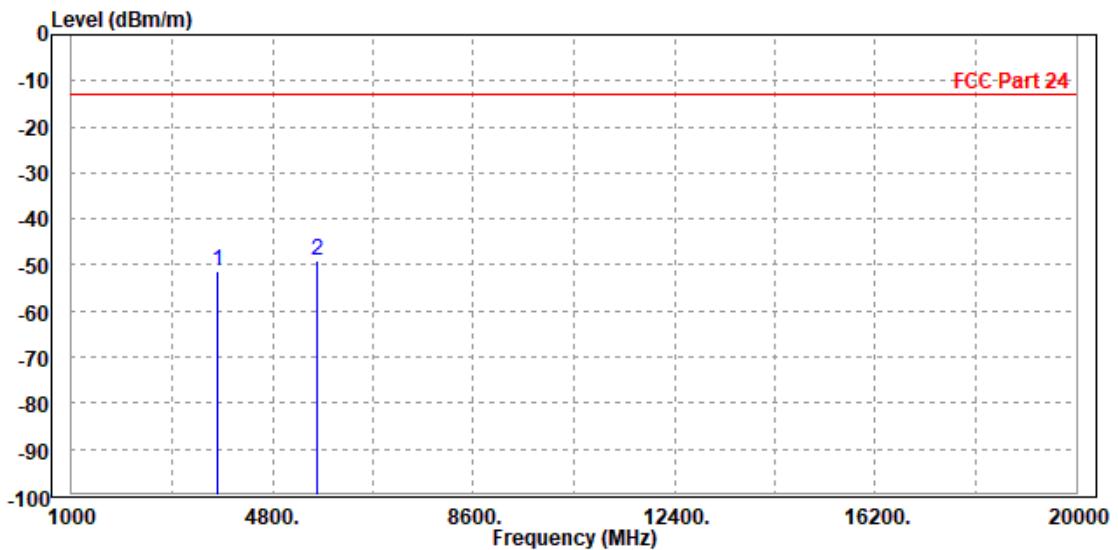


**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.17	-58.86	-13.00	-38.17	7.69	Peak	Vertical
2 PP	5640.000	-49.02	-60.15	-13.00	-36.02	11.13	Peak	Vertical





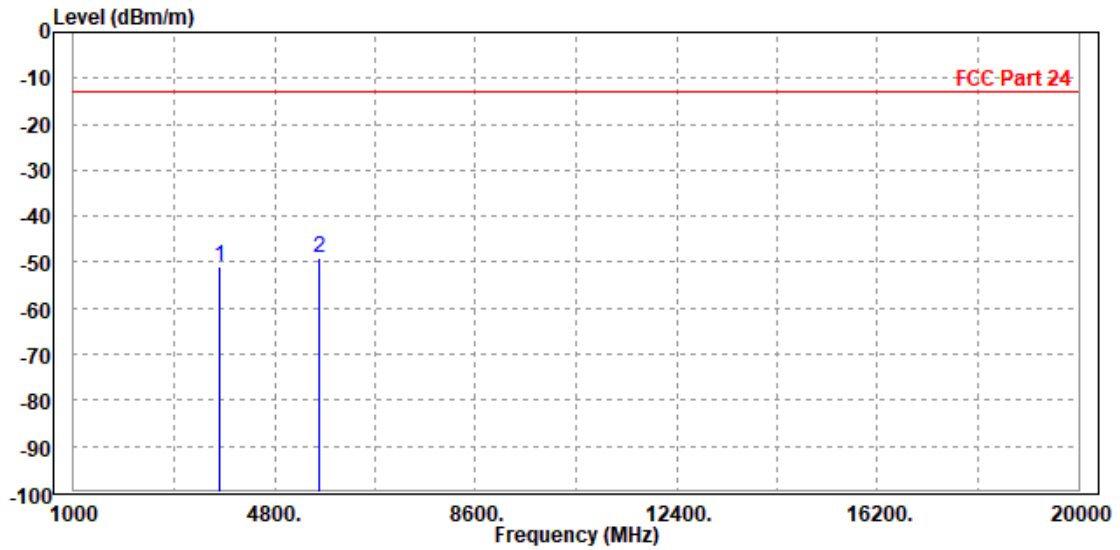
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Test Report No.: W7L-221220W001RF02

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-50.81	-58.80	-13.00	-37.81	7.99	Peak	Horizontal
2 PP	5636.000	-49.07	-59.80	-13.00	-36.07	10.73	Peak	Horizontal



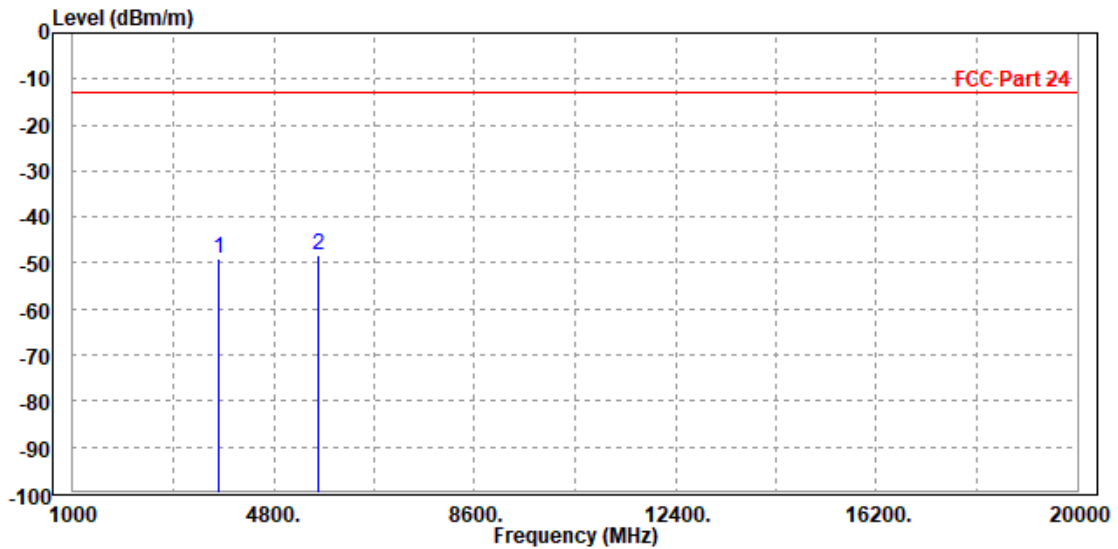


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VERITAS

Test Report No.: W7L-221220W001RF02

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.04	-56.73	-13.00	-36.04	7.69	Peak	Vertical
2 PP	5640.000	-48.33	-59.46	-13.00	-35.33	11.13	Peak	Vertical





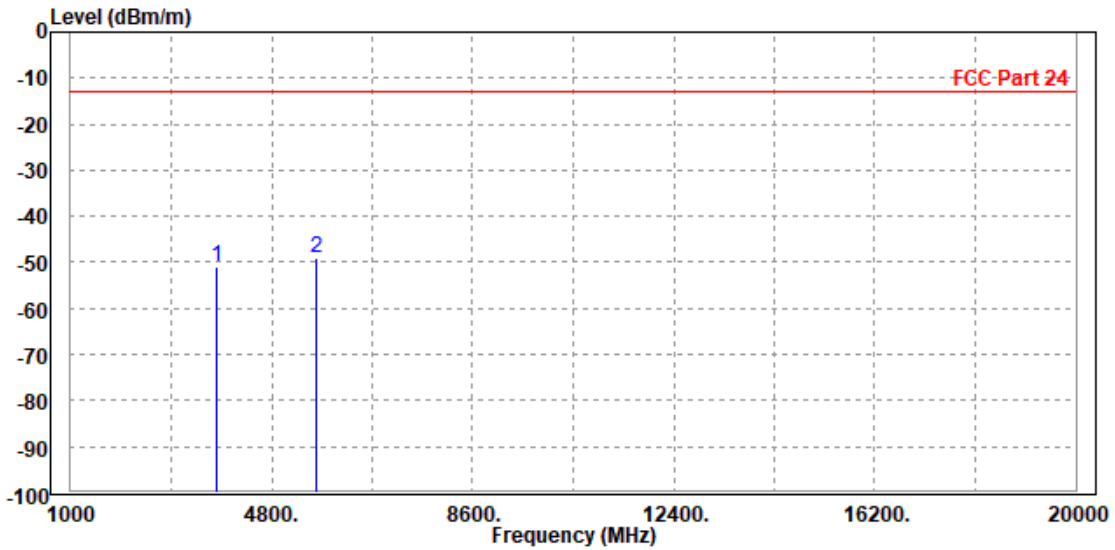
**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.03	-59.01	-13.00	-38.03	7.98	Peak	Horizontal
2 PP	5640.000	-49.09	-59.83	-13.00	-36.09	10.74	Peak	Horizontal



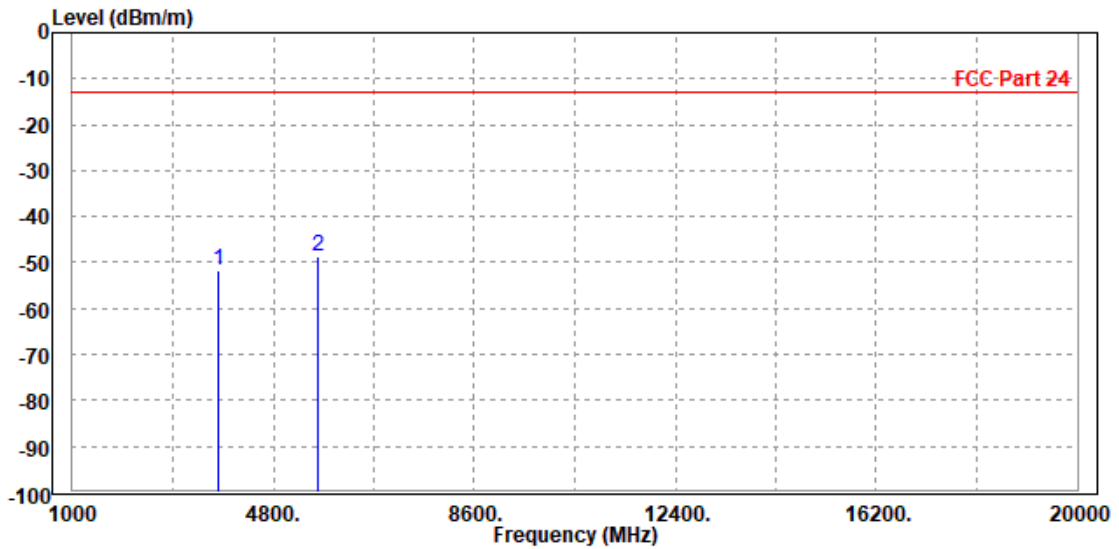


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VERITAS**

Test Report No.: W7L-221220W001RF02

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-51.56	-59.26	-13.00	-38.56	7.70	Peak	Vertical
2 PP	5636.000	-48.82	-59.94	-13.00	-35.82	11.12	Peak	Vertical





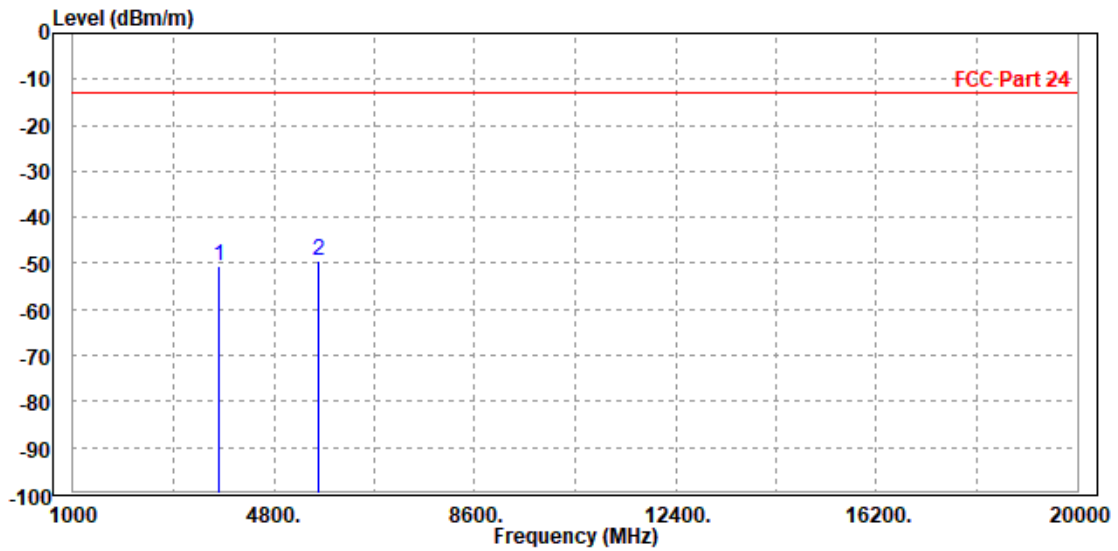
BUREAU VERITAS

Test Report No.: W7L-221220W001RF02

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-50.57	-58.56	-13.00	-37.57	7.99	Peak	Horizontal
2 PP	5636.000	-49.35	-60.08	-13.00	-36.35	10.73	Peak	Horizontal



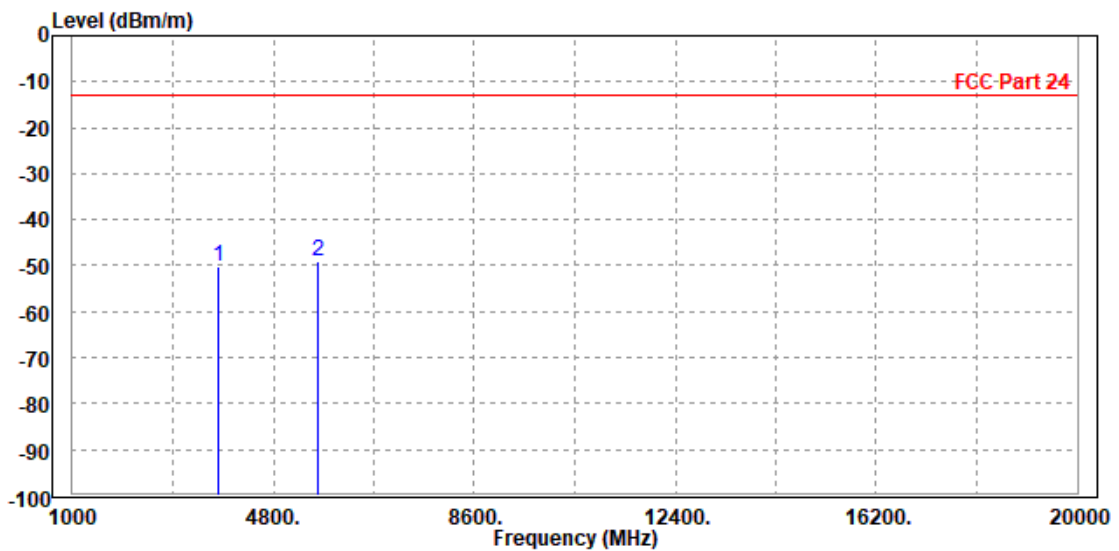


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Test Report No.: W7L-221220W001RF02

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-50.36	-58.05	-13.00	-37.36	7.69	Peak	Vertical
2	PP 5640.000	-48.90	-60.03	-13.00	-35.90	11.13	Peak	Vertical



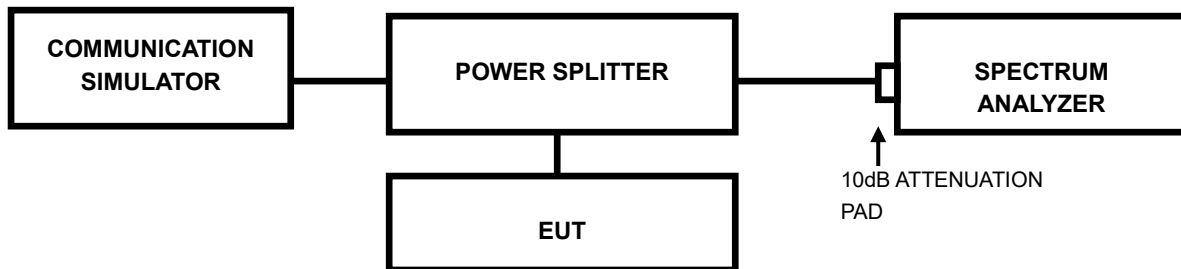


3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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Test Report No.: W7L-221220W001RF02

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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Test Report No.: W7L-221220W001RF02

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

Fax: +86-755-88696577

Email: customerservice.sw@bureauveritas.com

Web Site: www.adt.com.tw

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



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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.



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Test Report No.: W7L-221220W001RF02

6 APPENDIX

GSM 1900

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

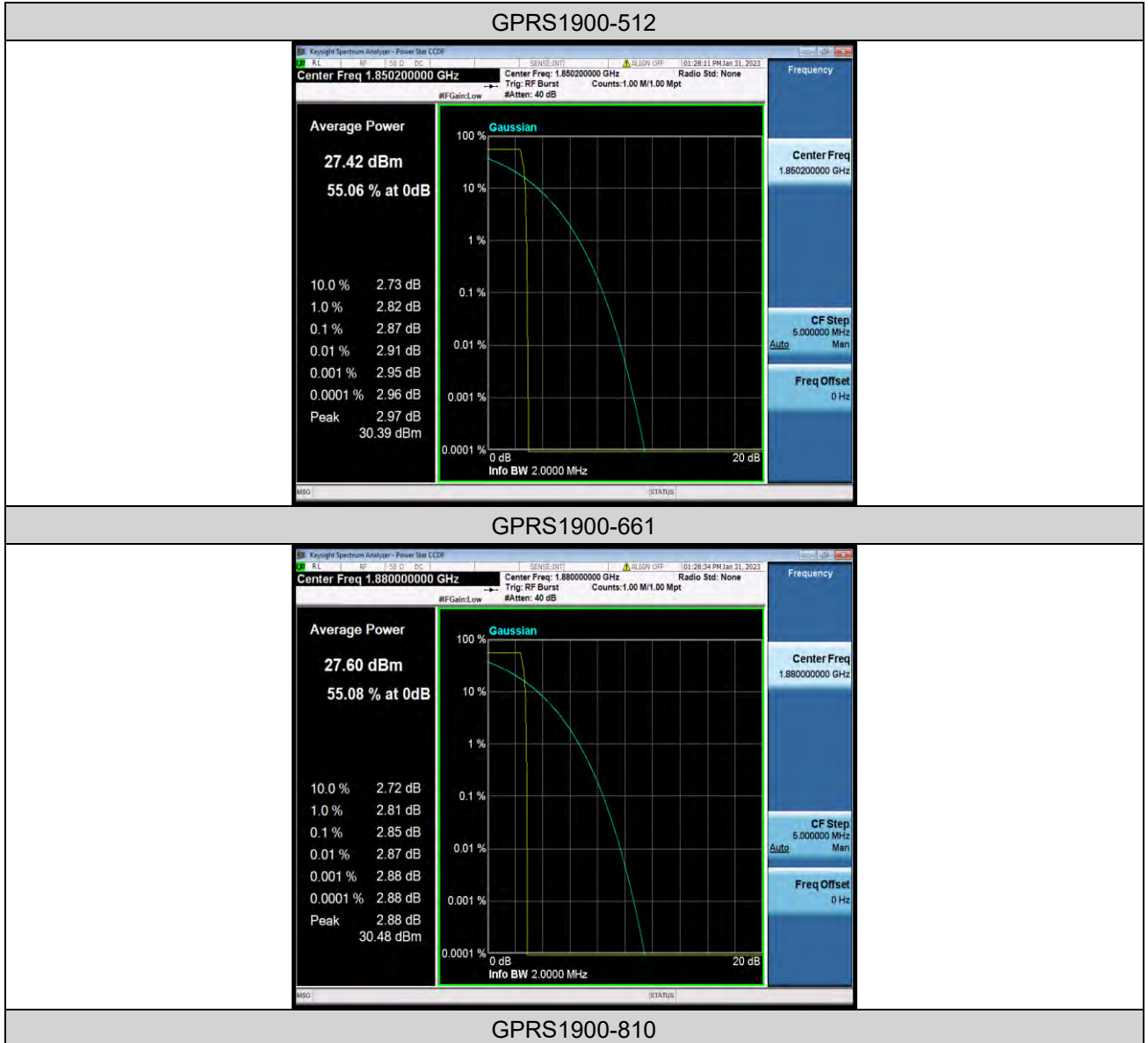
Band	Channel	Result(dB)	Limit(dB)	Verdict
GPRS1900	512	2.87	13	PASS
GPRS1900	661	2.85	13	PASS
GPRS1900	810	2.84	13	PASS
EGPRS1900	512	5.85	13	PASS
EGPRS1900	661	5.94	13	PASS
EGPRS1900	810	5.91	13	PASS



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Test Report No.: W7L-221220W001RF02

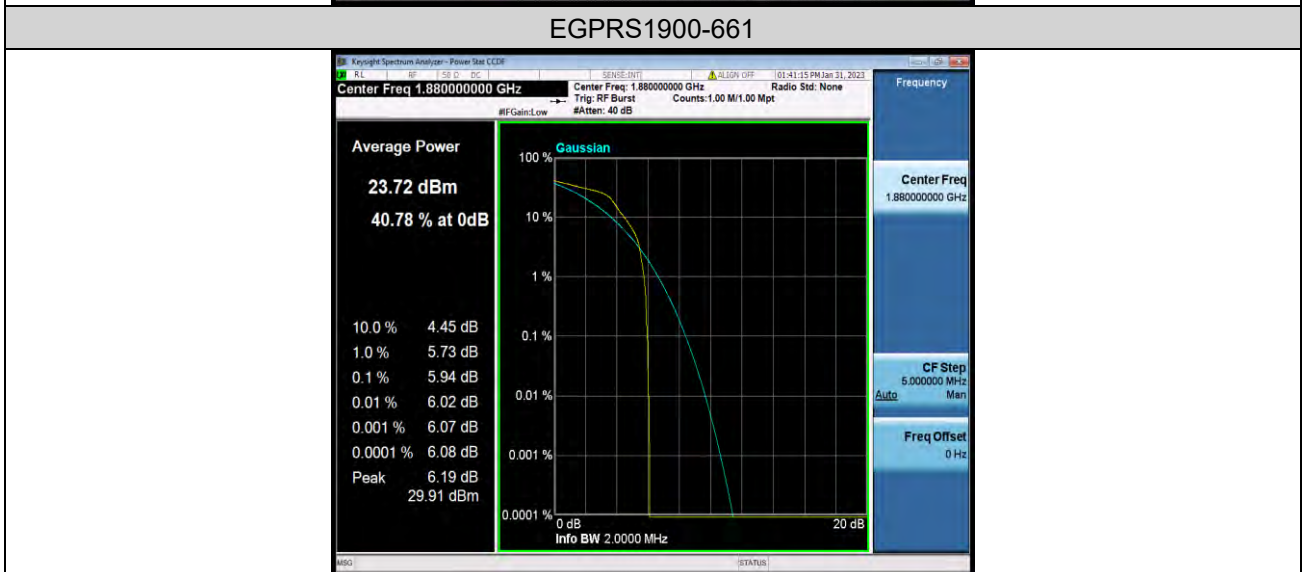
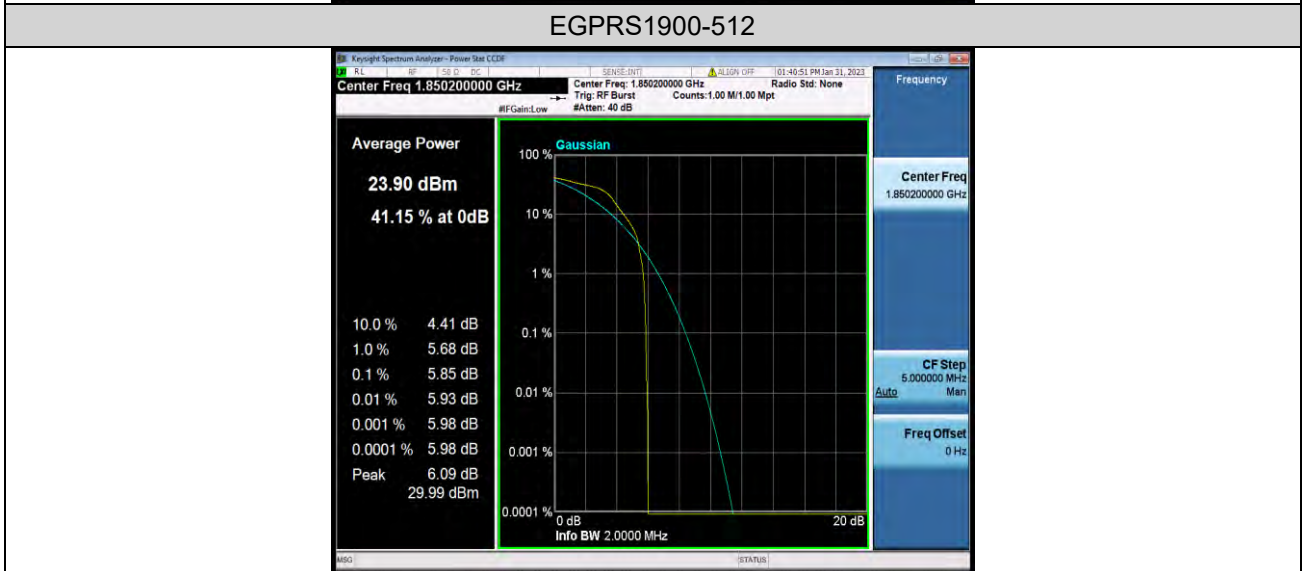
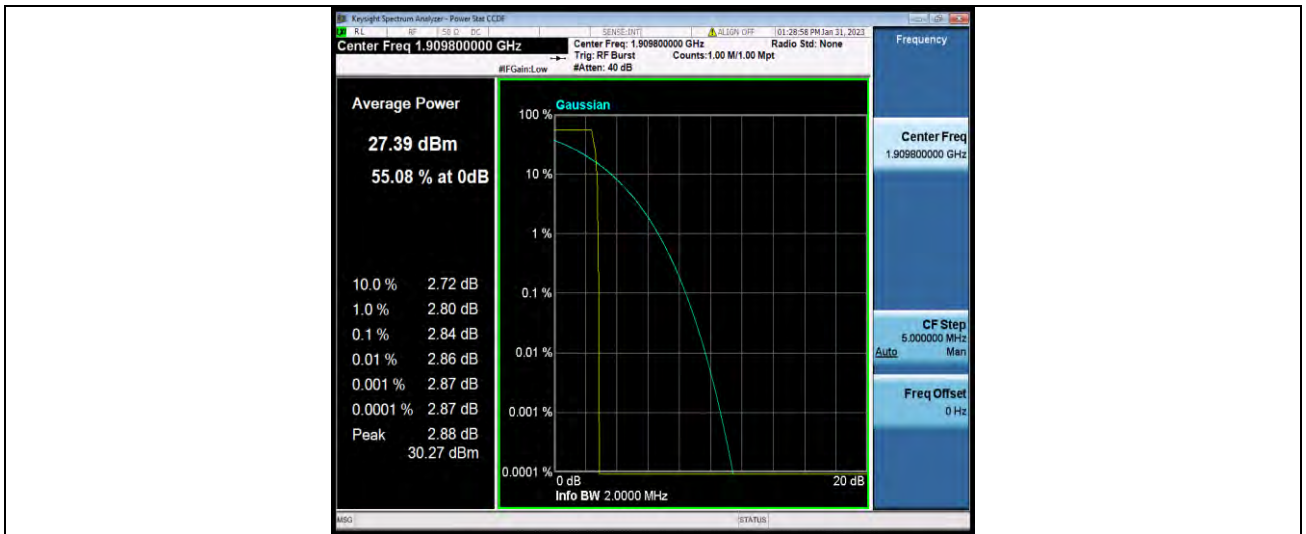
Test Graphs





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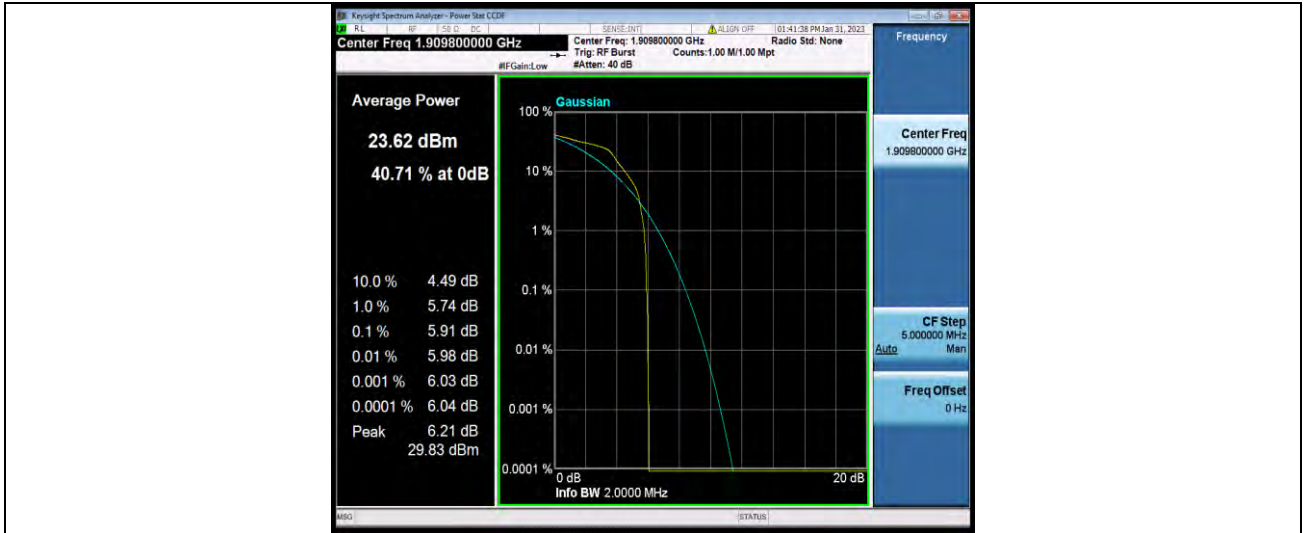
Test Report No.: W7L-221220W001RF02





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Test Report No.: W7L-221220W001RF02





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Test Report No.: W7L-221220W001RF02

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

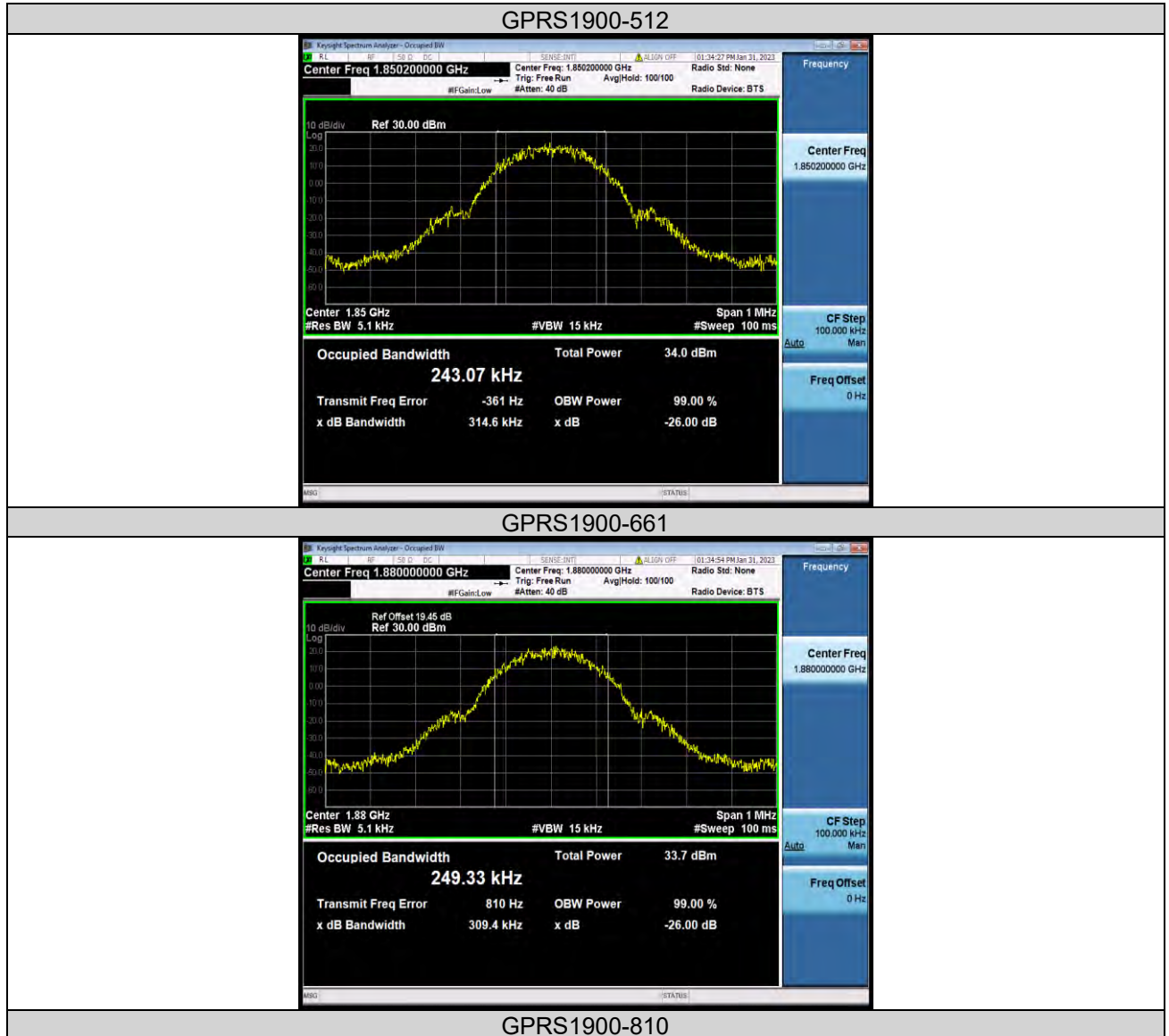
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GPRS1900	512	0.24307	0.3146	---	PASS
GPRS1900	661	0.24933	0.3094	---	PASS
GPRS1900	810	0.24488	0.3099	---	PASS
EGPRS1900	512	0.24598	0.3021	---	PASS
EGPRS1900	661	0.24336	0.3006	---	PASS
EGPRS1900	810	0.24907	0.2955	---	PASS



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Test Report No.: W7L-221220W001RF02

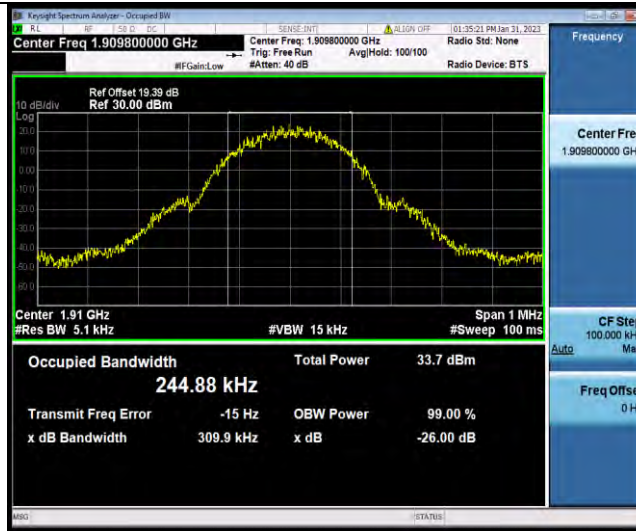
Test Graphs



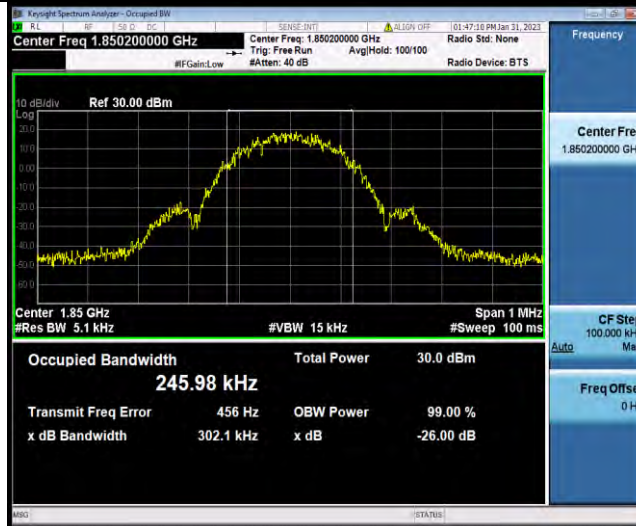


BUREAU VERITAS

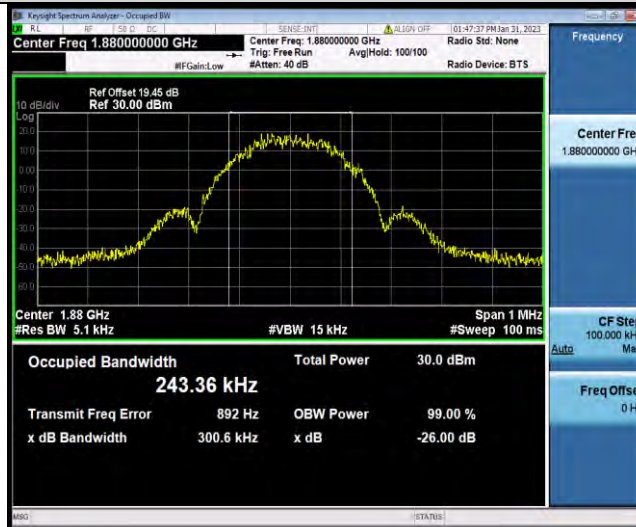
Test Report No.: W7L-221220W001RF02



EGPRS1900-512



EGPRS1900-661



EGPRS1900-810



Test Report No.: W7L-221220W001RF02

BAND EDGE

Test Result

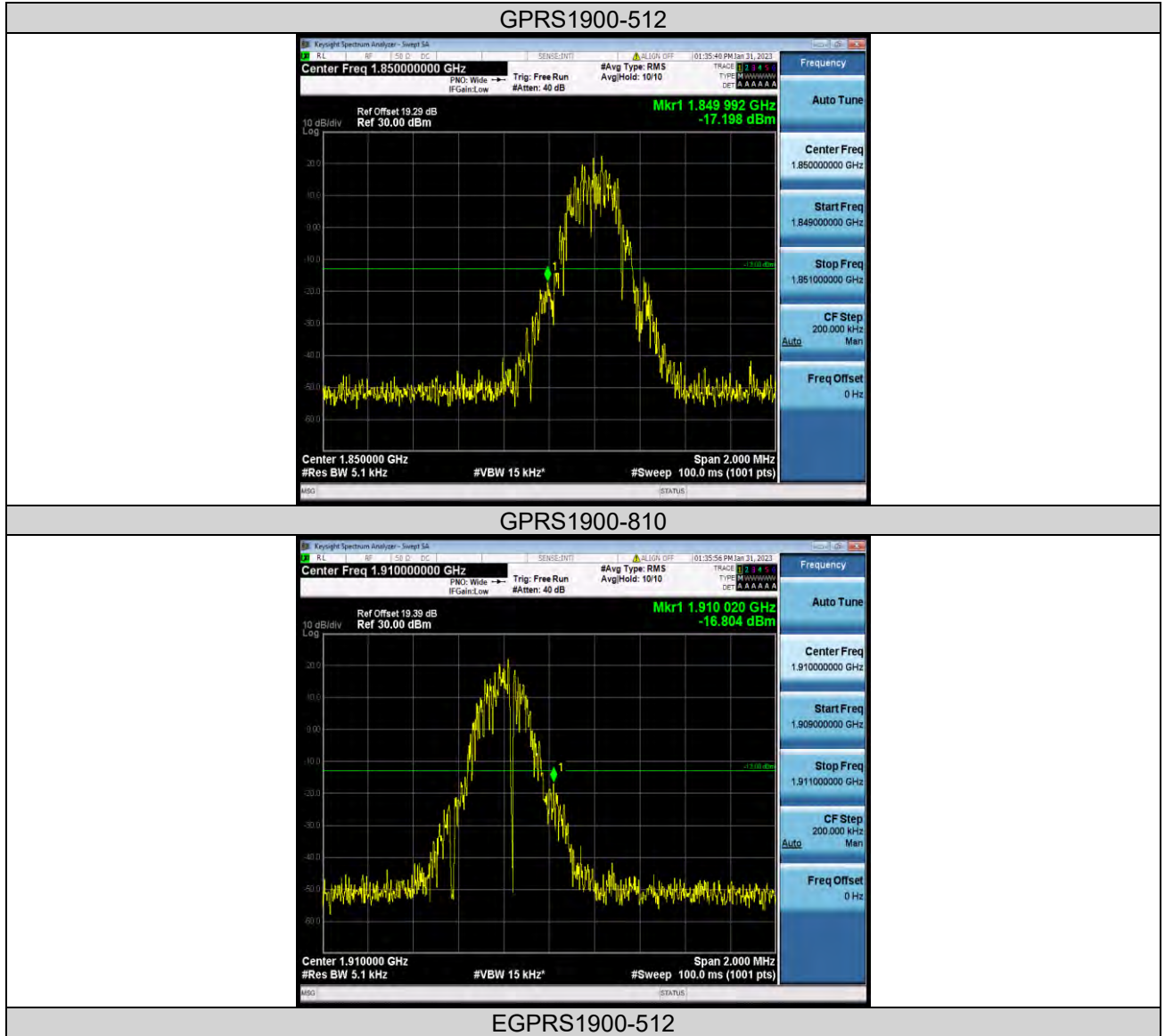
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GPRS1900	512	1849.99	-17.20	-13	PASS
GPRS1900	810	1910.02	-16.80	-13	PASS
EGPRS1900	512	1849.98	-22.10	-13	PASS
EGPRS1900	810	1910.04	-24.25	-13	PASS



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Test Report No.: W7L-221220W001RF02

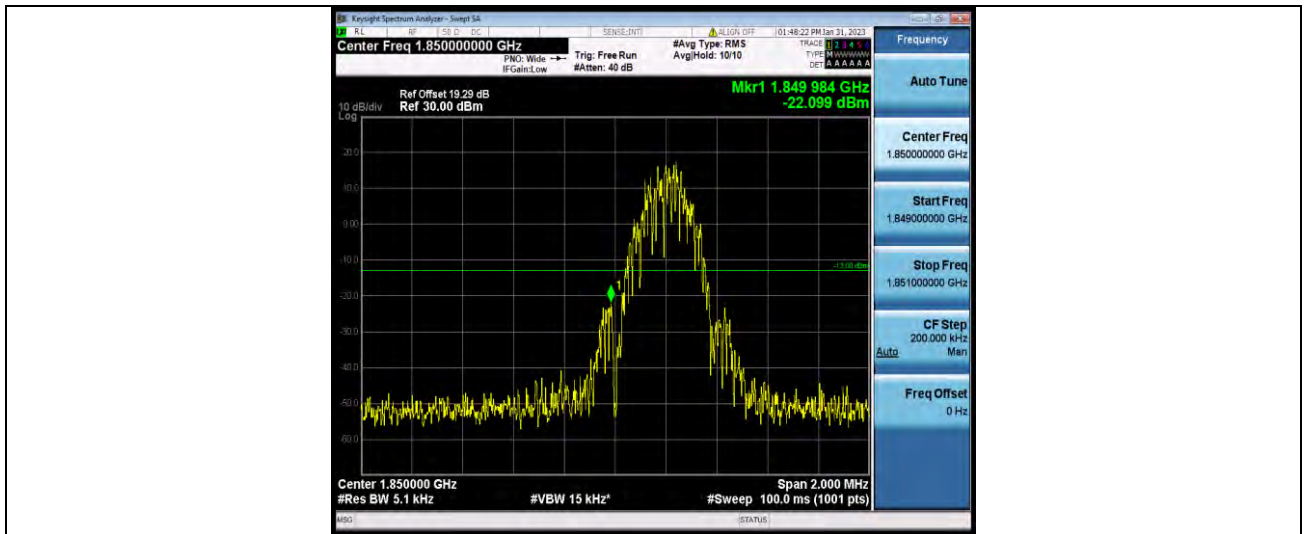
Test Graphs



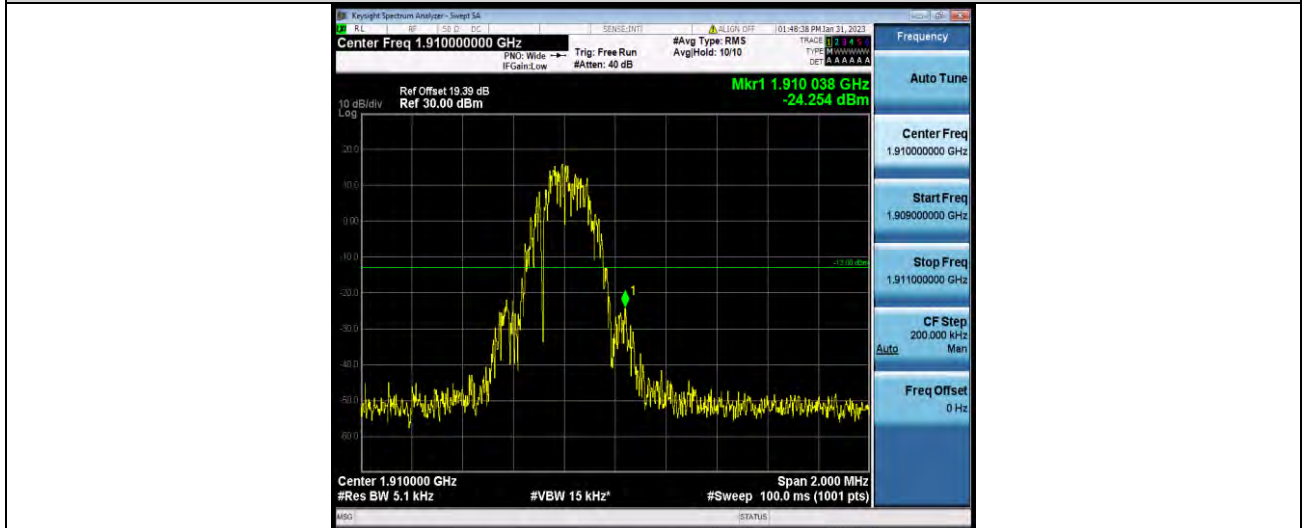


BUREAU VERITAS

Test Report No.: W7L-221220W001RF02



EGPRS1900-810





**BUREAU
VERITAS**

Test Report No.: W7L-221220W001RF02

CONDUCTED SPURIOUS EMISSION

Test Result

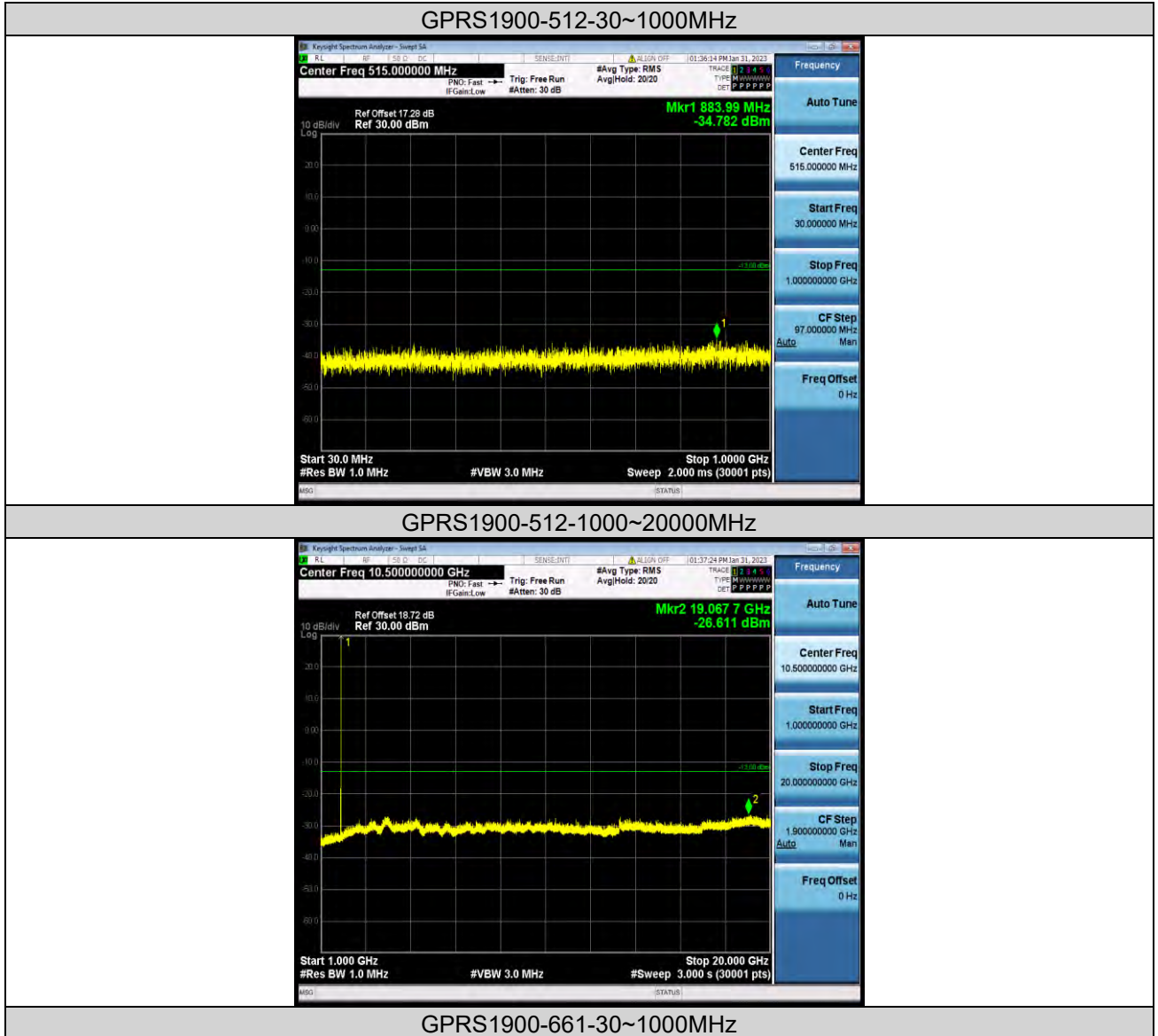
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GPRS1900	512	30~1000MHz	883.99	-34.78	-13	PASS
GPRS1900	512	1000~20000MHz	19067.73	-26.61	-13	PASS
GPRS1900	661	30~1000MHz	916.35	-34.76	-13	PASS
GPRS1900	661	1000~20000MHz	18443.9	-25.88	-13	PASS
GPRS1900	810	30~1000MHz	836.68	-34.49	-13	PASS
GPRS1900	810	1000~20000MHz	19098.13	-26.46	-13	PASS
EGPRS1900	512	30~1000MHz	796.07	-34.83	-13	PASS
EGPRS1900	512	1000~20000MHz	19505.37	-25.8	-13	PASS
EGPRS1900	661	30~1000MHz	838.46	-35.15	-13	PASS
EGPRS1900	661	1000~20000MHz	19170.97	-25.38	-13	PASS
EGPRS1900	810	30~1000MHz	929.48	-34.12	-13	PASS
EGPRS1900	810	1000~20000MHz	3779.07	-26.32	-13	PASS



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Test Report No.: W7L-221220W001RF02

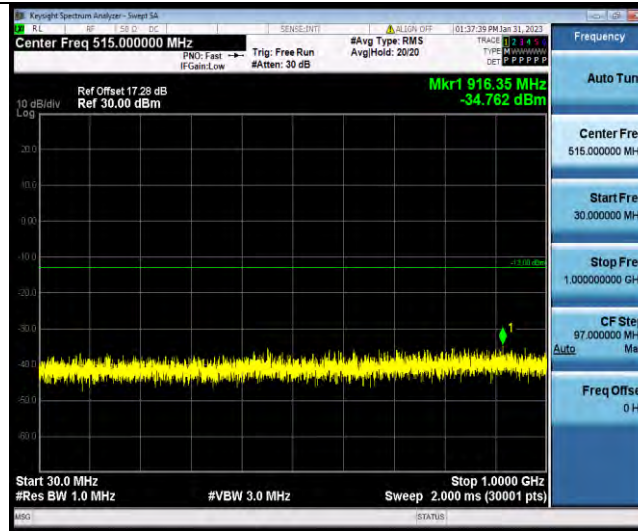
Test Graphs





BUREAU VERITAS

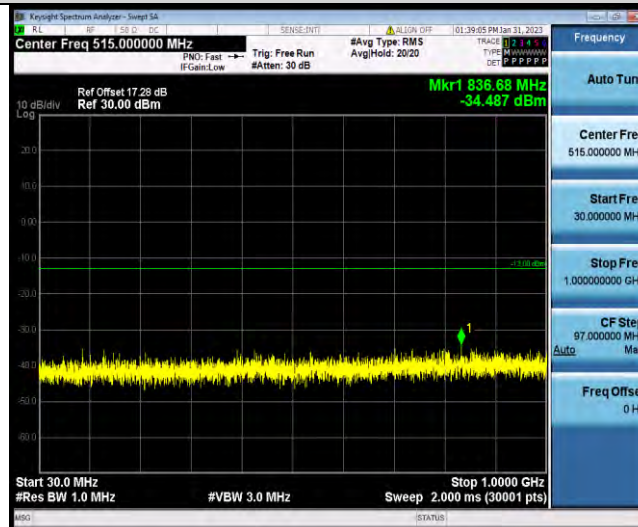
Test Report No.: W7L-221220W001RF02



GPRS1900-661-1000~20000MHz



GPRS1900-810-30~1000MHz



GPRS1900-810-1000~20000MHz

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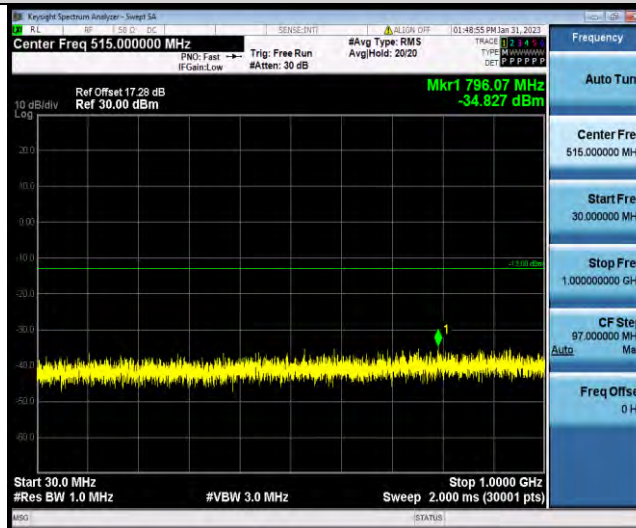


BUREAU VERITAS

Test Report No.: W7L-221220W001RF02



EGPRS1900-512-30~1000MHz



EGPRS1900-512-1000~2000MHz

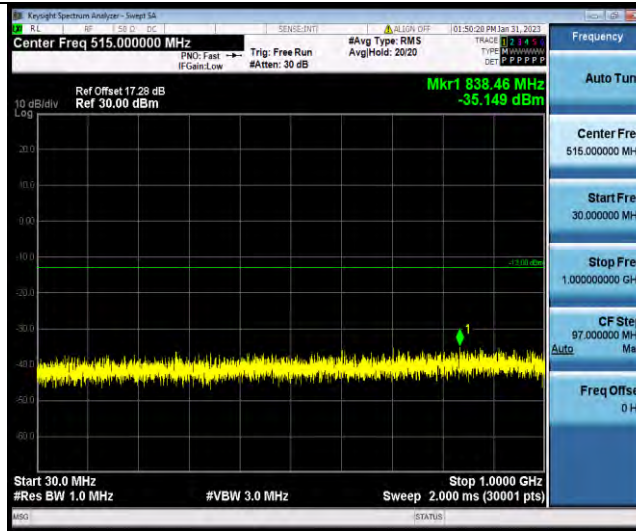


EGPRS1900-661-30~1000MHz



BUREAU VERITAS

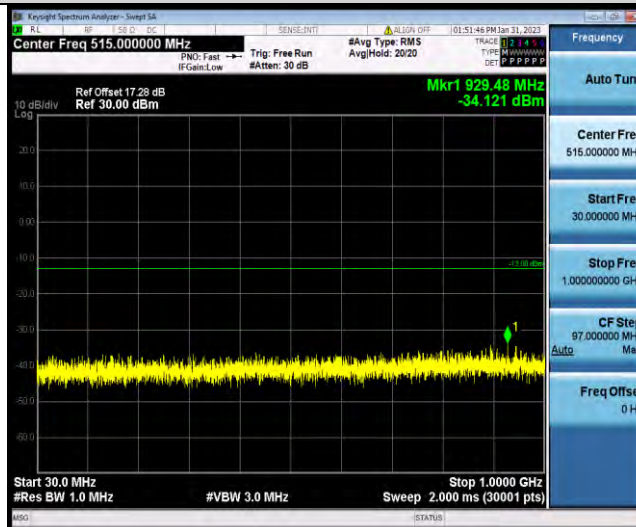
Test Report No.: W7L-221220W001RF02



EGPRS1900-661-1000~20000MHz



EGPRS1900-810-30~1000MHz



EGPRS1900-810-1000~20000MHz

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

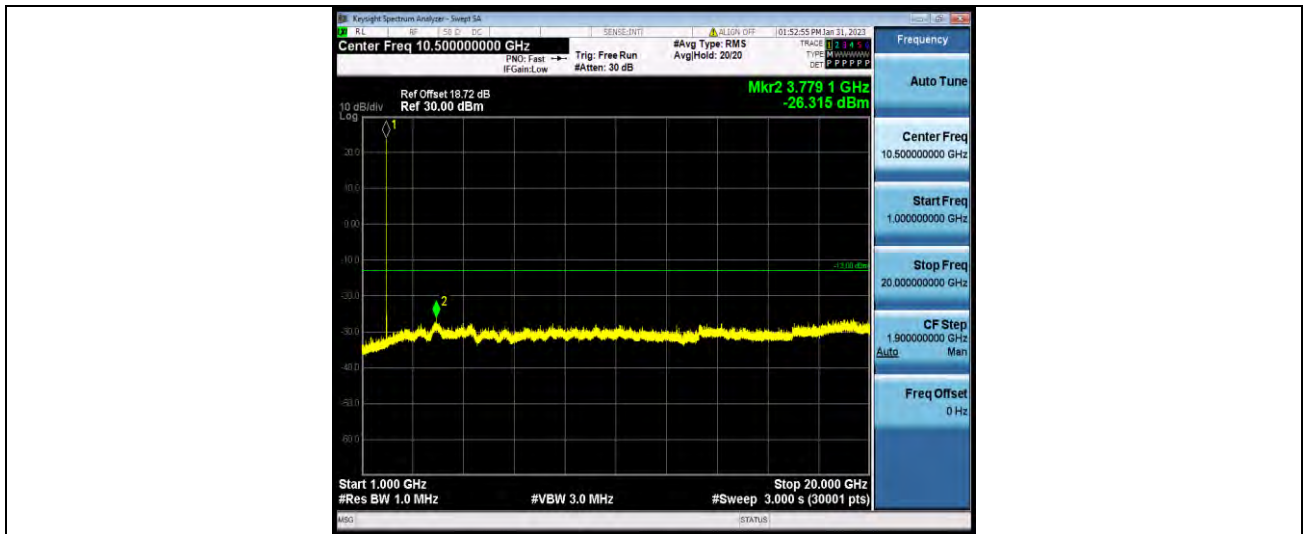
No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

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Test Report No.: W7L-221220W001RF02



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FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS1900	512	VL	NT	13.11	0.007086	±2.5	PASS
GPRS1900	512	VN	NT	12.59	0.006805	±2.5	PASS
GPRS1900	512	VH	NT	14.43	0.007799	±2.5	PASS
GPRS1900	661	VL	NT	12.88	0.006851	±2.5	PASS
GPRS1900	661	VN	NT	12.27	0.006527	±2.5	PASS
GPRS1900	661	VH	NT	8.46	0.004500	±2.5	PASS
GPRS1900	810	VL	NT	13.46	0.007048	±2.5	PASS
GPRS1900	810	VN	NT	10.01	0.005241	±2.5	PASS
GPRS1900	810	VH	NT	12.37	0.006477	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS1900	512	NV	-30	13.72	0.007415	±2.5	PASS
GPRS1900	512	NV	-20	14.08	0.007610	±2.5	PASS
GPRS1900	512	NV	-10	12.59	0.006805	±2.5	PASS
GPRS1900	512	NV	0	13.62	0.007361	±2.5	PASS
GPRS1900	512	NV	10	15.46	0.008356	±2.5	PASS
GPRS1900	512	NV	20	15.34	0.008291	±2.5	PASS
GPRS1900	512	NV	30	14.82	0.008010	±2.5	PASS
GPRS1900	512	NV	40	14.17	0.007659	±2.5	PASS
GPRS1900	512	NV	50	14.63	0.007907	±2.5	PASS
GPRS1900	661	NV	-30	10.04	0.005340	±2.5	PASS
GPRS1900	661	NV	-20	9.52	0.005064	±2.5	PASS
GPRS1900	661	NV	-10	7.81	0.004154	±2.5	PASS
GPRS1900	661	NV	0	10.82	0.005755	±2.5	PASS
GPRS1900	661	NV	10	10.62	0.005649	±2.5	PASS
GPRS1900	661	NV	20	8.36	0.004447	±2.5	PASS
GPRS1900	661	NV	30	10.40	0.005532	±2.5	PASS
GPRS1900	661	NV	40	9.88	0.005255	±2.5	PASS
GPRS1900	661	NV	50	11.88	0.006319	±2.5	PASS
GPRS1900	810	NV	-30	12.49	0.006540	±2.5	PASS
GPRS1900	810	NV	-20	13.01	0.006812	±2.5	PASS
GPRS1900	810	NV	-10	18.47	0.009671	±2.5	PASS
GPRS1900	810	NV	0	14.92	0.007812	±2.5	PASS
GPRS1900	810	NV	10	15.21	0.007964	±2.5	PASS
GPRS1900	810	NV	20	14.33	0.007503	±2.5	PASS
GPRS1900	810	NV	30	14.14	0.007404	±2.5	PASS
GPRS1900	810	NV	40	15.53	0.008132	±2.5	PASS
GPRS1900	810	NV	50	11.27	0.005901	±2.5	PASS



Test Report No.: W7L-221220W001RF02

WCDMA II

PEAK-TO-AVERAGE RATIO

Test Result

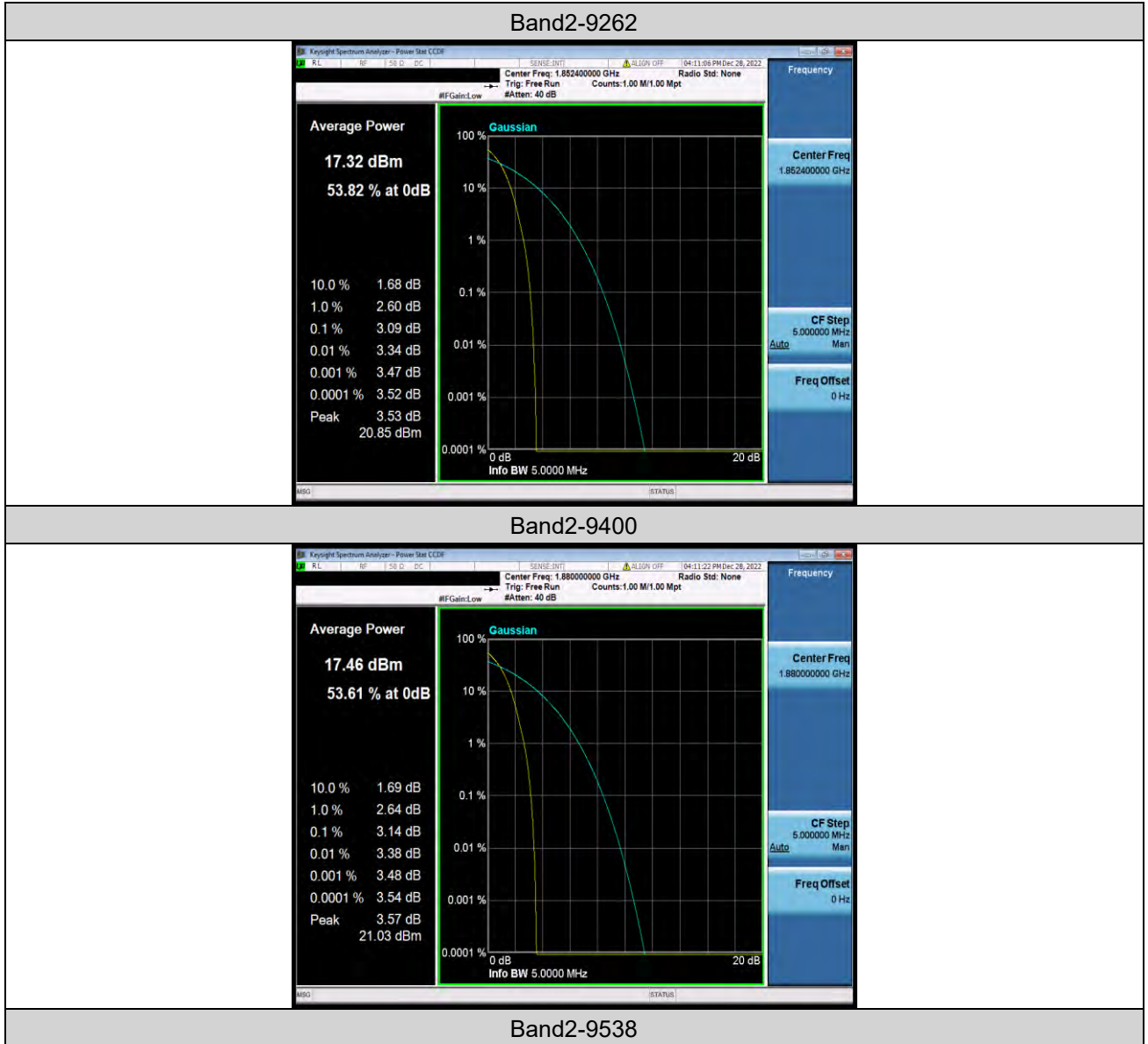
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.09	13	PASS
Band2	9400	3.14	13	PASS
Band2	9538	3.16	13	PASS



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Test Report No.: W7L-221220W001RF02

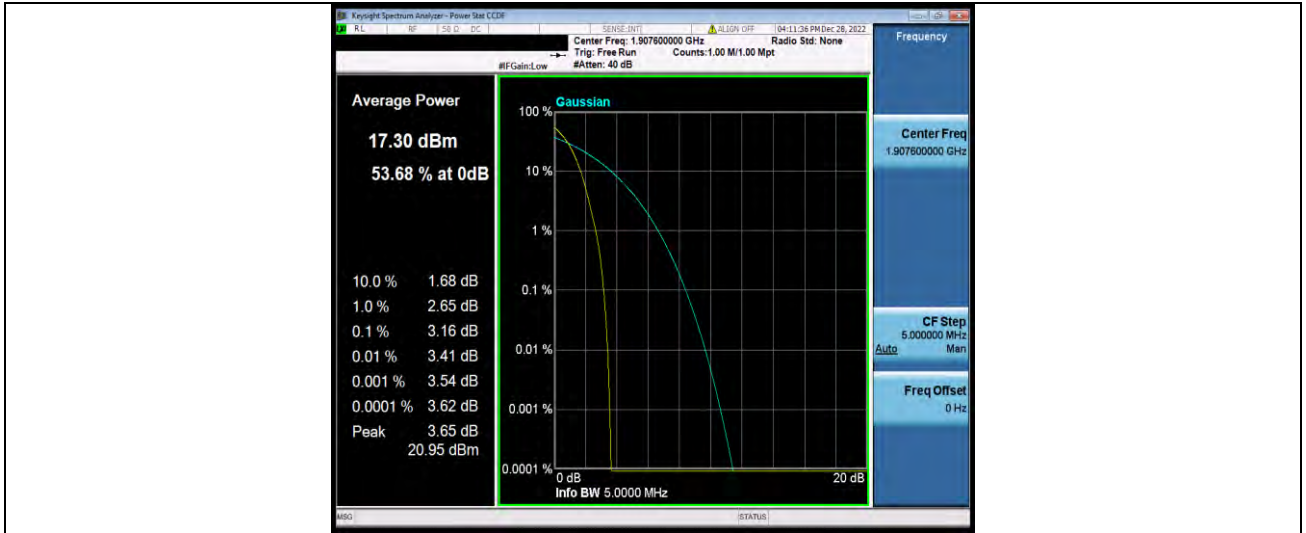
Test Graphs





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Test Report No.: W7L-221220W001RF02





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Test Report No.: W7L-221220W001RF02

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

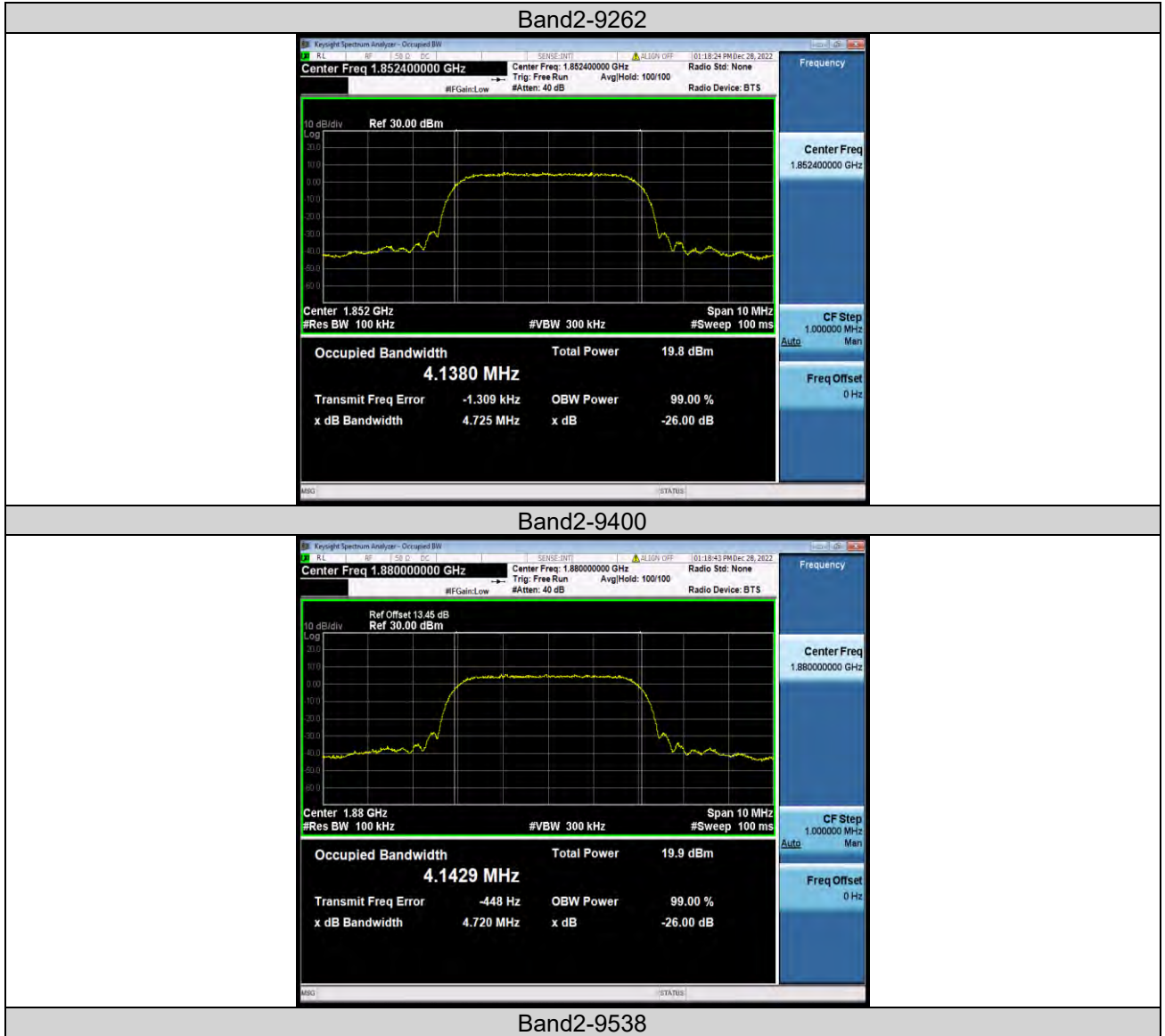
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band2	9262	4.1380	4.725	---	PASS
Band2	9400	4.1429	4.720	---	PASS
Band2	9538	4.1304	4.720	---	PASS



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Test Report No.: W7L-221220W001RF02

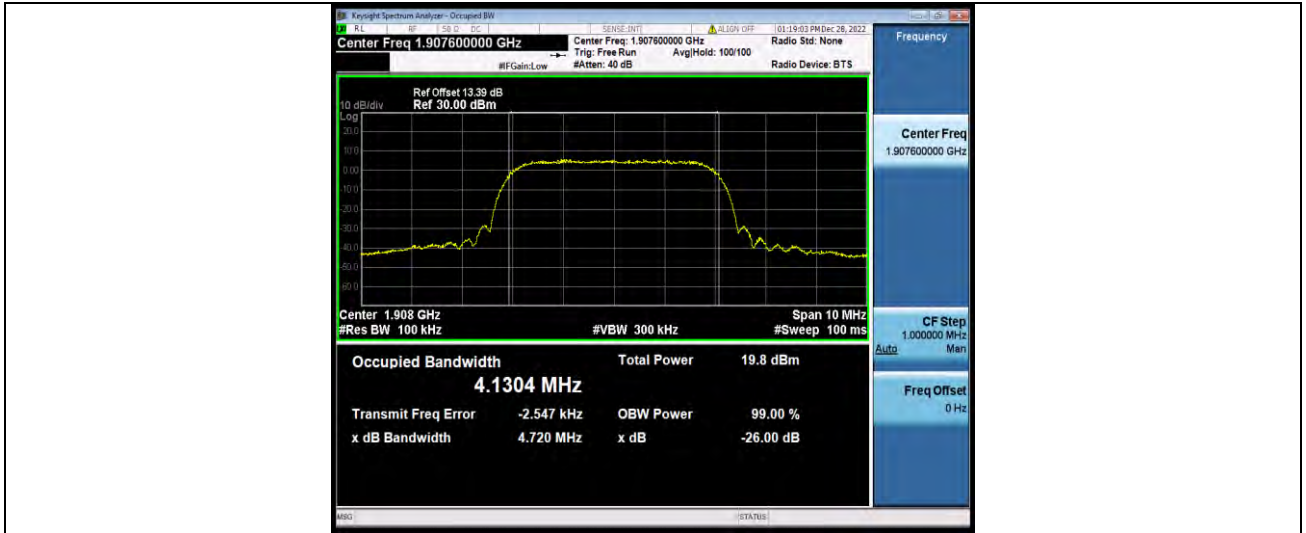
Test Graphs





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Test Report No.: W7L-221220W001RF02





Test Report No.: W7L-221220W001RF02

BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1849.86	-30.93	-13	PASS
Band2	9538	1910.16	-31.91	-13	PASS



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Test Report No.: W7L-221220W001RF02

Test Graphs





Test Report No.: W7L-221220W001RF02

CONDUCTED SPURIOUS EMISSION

Test Result

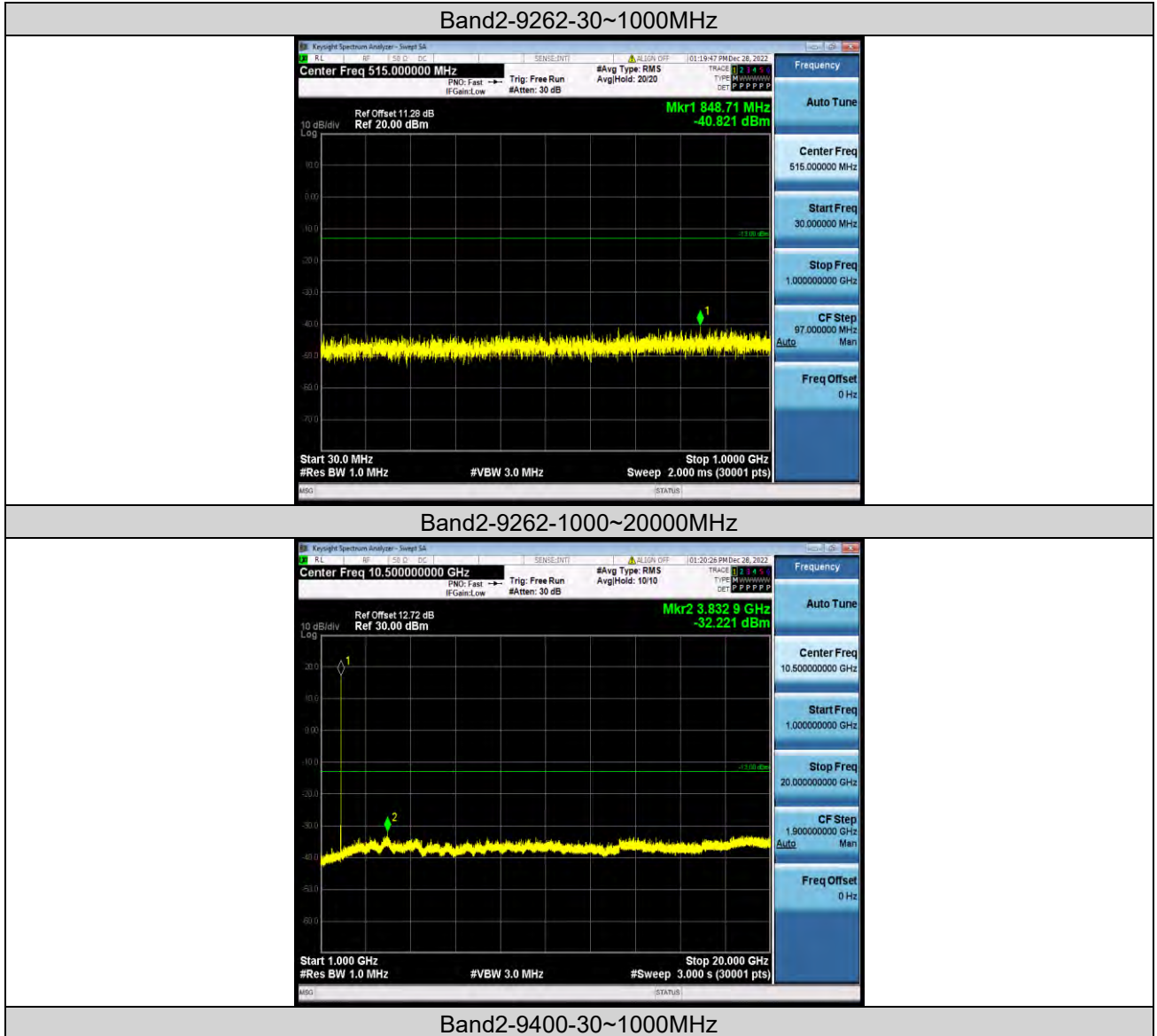
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	30~1000MHz	848.71	-40.82	-13	PASS
Band2	9262	1000~20000MHz	3832.9	-32.22	-13	PASS
Band2	9400	30~1000MHz	904.36	-41.35	-13	PASS
Band2	9400	1000~20000MHz	19336.9	-32.29	-13	PASS
Band2	9538	30~1000MHz	907.91	-40.05	-13	PASS
Band2	9538	1000~20000MHz	19100.67	-32.28	-13	PASS



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Test Report No.: W7L-221220W001RF02

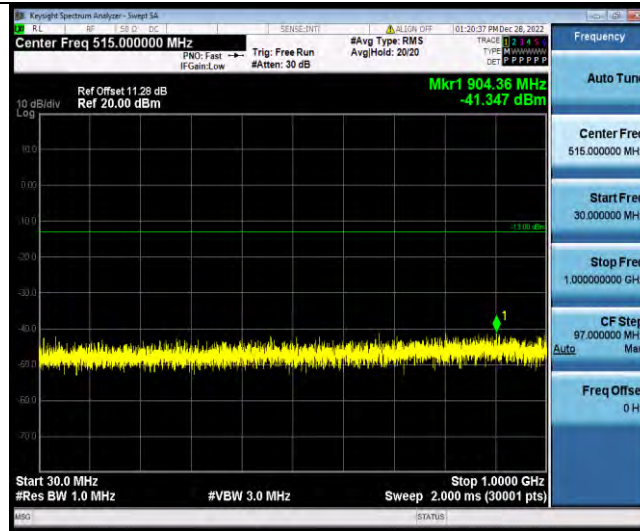
Test Graphs





BUREAU VERITAS

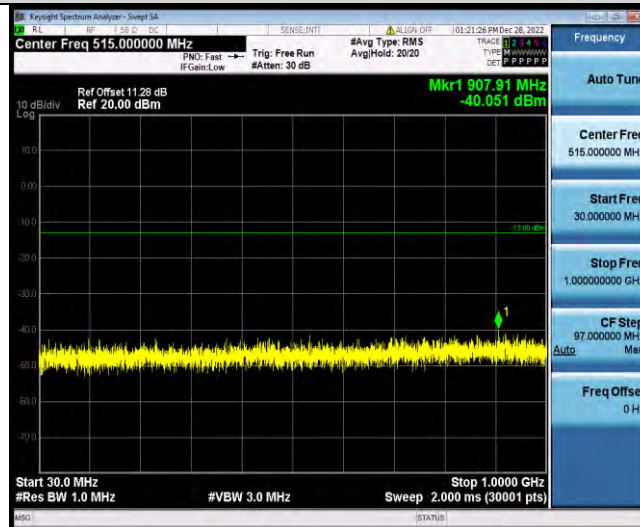
Test Report No.: W7L-221220W001RF02



Band2-9400-1000~20000MHz



Band2-9538-30~1000MHz



Band2-9538-1000~20000MHz

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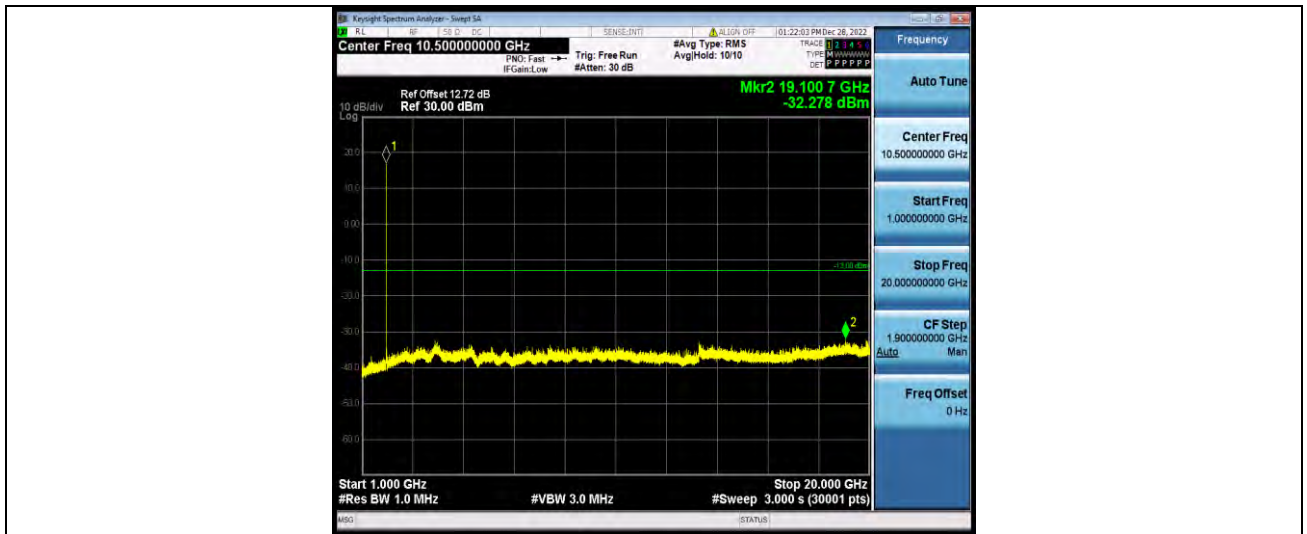
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FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	-0.49	-0.000265	±2.5	PASS
Band2	9262	VN	NT	-0.89	-0.000480	±2.5	PASS
Band2	9262	VH	NT	-0.22	-0.000119	±2.5	PASS
Band2	9400	VL	NT	-0.78	-0.000415	±2.5	PASS
Band2	9400	VN	NT	-0.89	-0.000473	±2.5	PASS
Band2	9400	VH	NT	-0.59	-0.000314	±2.5	PASS
Band2	9538	VL	NT	-1.37	-0.000718	±2.5	PASS
Band2	9538	VN	NT	-1.02	-0.000535	±2.5	PASS
Band2	9538	VH	NT	-1.18	-0.000619	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	3.20	0.001727	±2.5	PASS
Band2	9262	NV	-20	2.50	0.001350	±2.5	PASS
Band2	9262	NV	-10	2.62	0.001414	±2.5	PASS
Band2	9262	NV	0	1.19	0.000642	±2.5	PASS
Band2	9262	NV	10	-3.70	-0.001997	±2.5	PASS
Band2	9262	NV	20	-4.06	-0.002192	±2.5	PASS
Band2	9262	NV	30	5.87	0.003169	±2.5	PASS
Band2	9262	NV	40	5.73	0.003093	±2.5	PASS
Band2	9262	NV	50	6.90	0.003725	±2.5	PASS
Band2	9400	NV	-30	2.30	0.001223	±2.5	PASS
Band2	9400	NV	-20	-0.30	-0.000160	±2.5	PASS
Band2	9400	NV	-10	3.06	0.001628	±2.5	PASS
Band2	9400	NV	0	-7.60	-0.004043	±2.5	PASS
Band2	9400	NV	10	6.18	0.003287	±2.5	PASS
Band2	9400	NV	20	6.10	0.003245	±2.5	PASS
Band2	9400	NV	30	-0.36	-0.000191	±2.5	PASS
Band2	9400	NV	40	0.94	0.000500	±2.5	PASS
Band2	9400	NV	50	-8.51	-0.004527	±2.5	PASS
Band2	9538	NV	-30	-5.69	-0.002983	±2.5	PASS
Band2	9538	NV	-20	7.31	0.003832	±2.5	PASS
Band2	9538	NV	-10	6.90	0.003617	±2.5	PASS
Band2	9538	NV	0	7.55	0.003958	±2.5	PASS
Band2	9538	NV	10	8.86	0.004645	±2.5	PASS
Band2	9538	NV	20	8.75	0.004587	±2.5	PASS
Band2	9538	NV	30	7.78	0.004078	±2.5	PASS



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Test Report No.: W7L-221220W001RF02

Band2	9538	NV	40	8.14	0.004267	±2.5	PASS
Band2	9538	NV	50	7.62	0.003995	±2.5	PASS



LTE BAND 2

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	1RB#0	4.56	13	PASS
Band2	20MHz	QPSK	18700	100RB#0	5.21	13	PASS
Band2	20MHz	QPSK	18900	1RB#0	4.74	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.25	13	PASS
Band2	20MHz	QPSK	19100	1RB#0	4.64	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.25	13	PASS
Band2	20MHz	16QAM	18700	1RB#0	5.51	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.06	13	PASS
Band2	20MHz	16QAM	18900	1RB#0	5.55	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.10	13	PASS
Band2	20MHz	16QAM	19100	1RB#0	5.43	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.08	13	PASS