

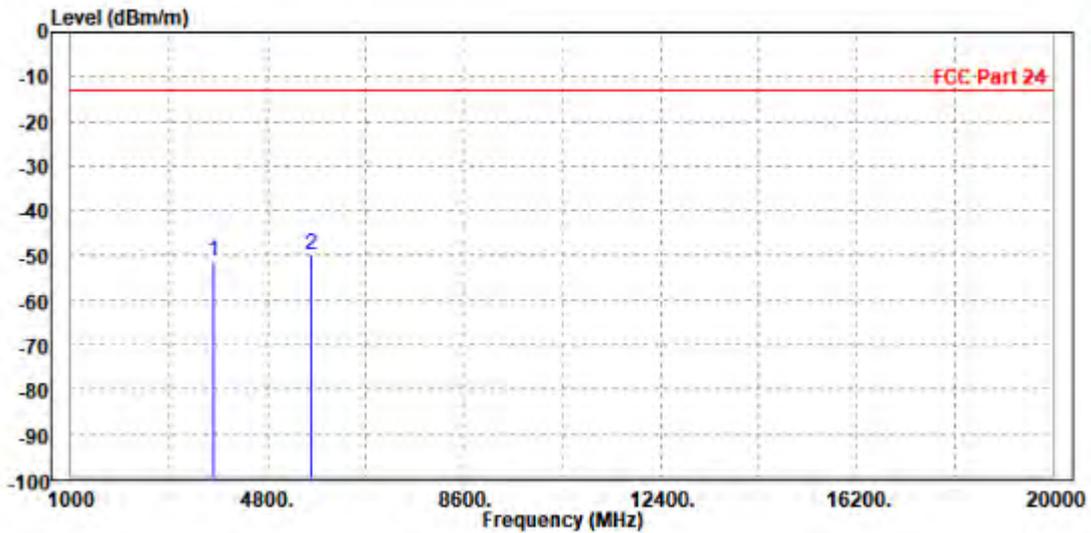


**BUREAU  
VERITAS**

Test Report No.: W7L-P24100002RF06

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.24	-59.87	-13.00	-38.24	8.63	Peak	Vertical
2 PP	5640.000	-49.89	-62.21	-13.00	-36.89	12.32	Peak	Vertical





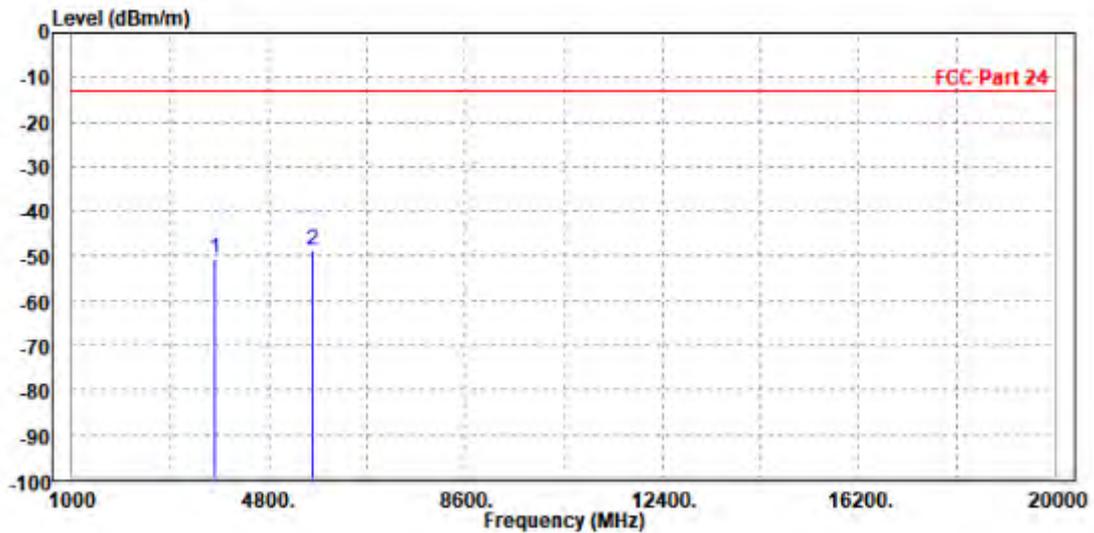
**BUREAU  
VERITAS**

Test Report No.: W7L-P24100002RF06

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-50.60	-58.96	-13.00	-37.60	8.36	Peak	Horizontal
2 PP	5640.000	-48.67	-60.48	-13.00	-35.67	11.81	Peak	Horizontal



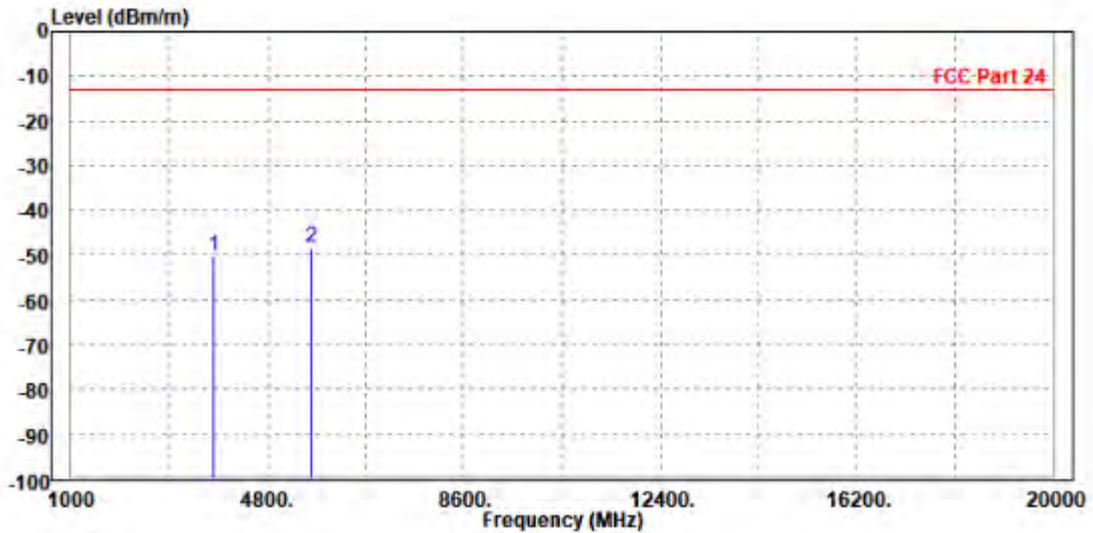


**BUREAU  
VERITAS**

Test Report No.: W7L-P24100002RF06

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-50.18	-58.81	-13.00	-37.18	8.63	Peak	Vertical
2 PP	5636.000	-48.18	-60.50	-13.00	-35.18	12.32	Peak	Vertical





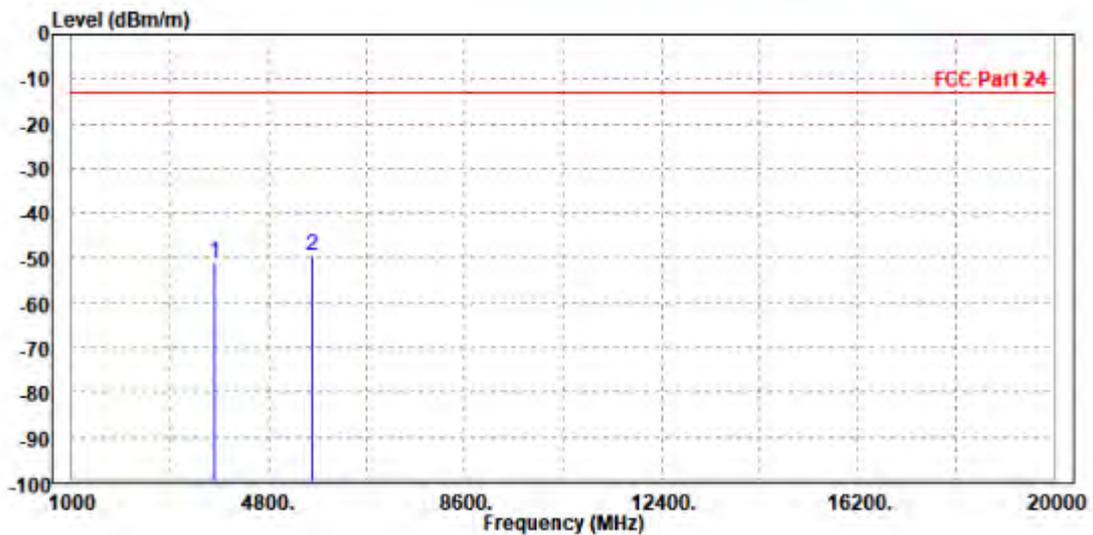
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Test Report No.: W7L-P24100002RF06

**CHANNEL BANDWIDTH: 5MHz / QPSK**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-50.89	-59.24	-13.00	-37.89	8.35	Peak	Horizontal
2 PP	5636.000	-49.62	-61.43	-13.00	-36.62	11.81	Peak	Horizontal



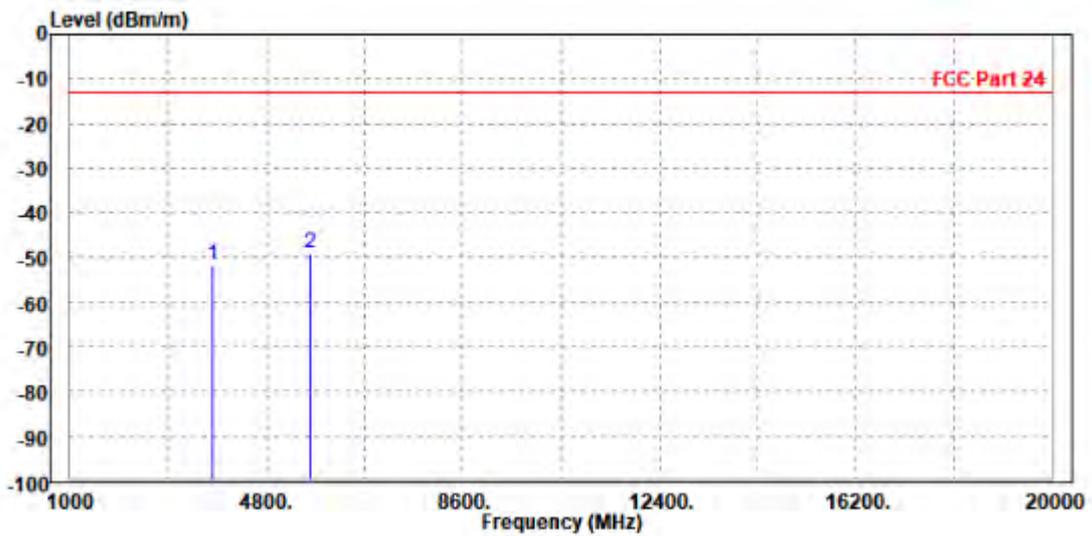


**BUREAU  
VERITAS**

Test Report No.: W7L-P24100002RF06

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.53	-60.16	-13.00	-38.53	8.63	Peak	Vertical
2 PP	5640.000	-49.09	-61.41	-13.00	-36.09	12.32	Peak	Vertical





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VERITAS**

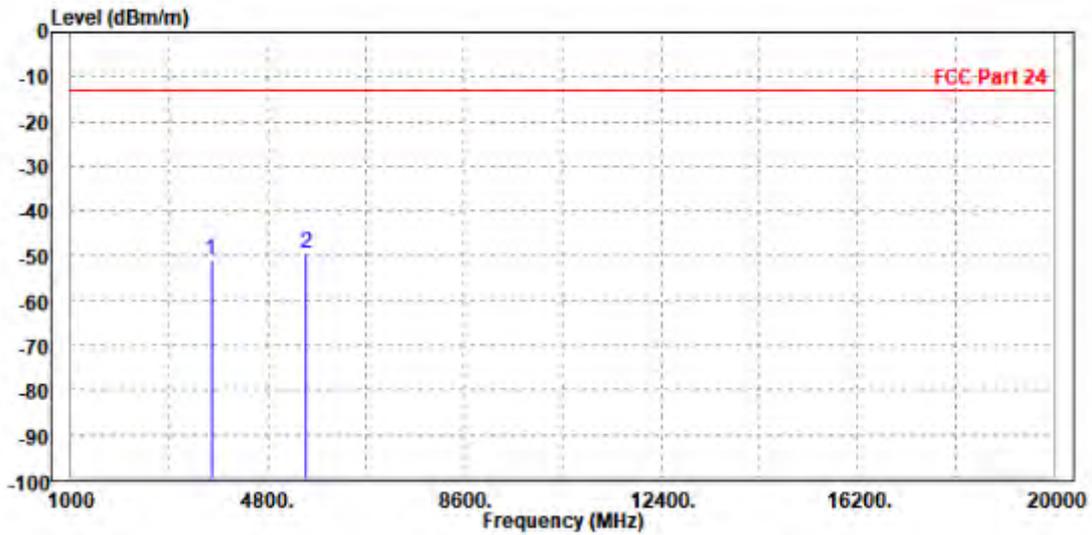
Test Report No.: W7L-P24100002RF06

**CHANNEL BANDWIDTH: 10MHz / QPSK**

**CH18650**

<b>MODE</b>	TX channel 18650	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3710.000	-50.86	-59.25	-13.00	-37.86	8.39	Peak	Horizontal
2 PP	5560.000	-49.53	-61.33	-13.00	-36.53	11.80	Peak	Horizontal



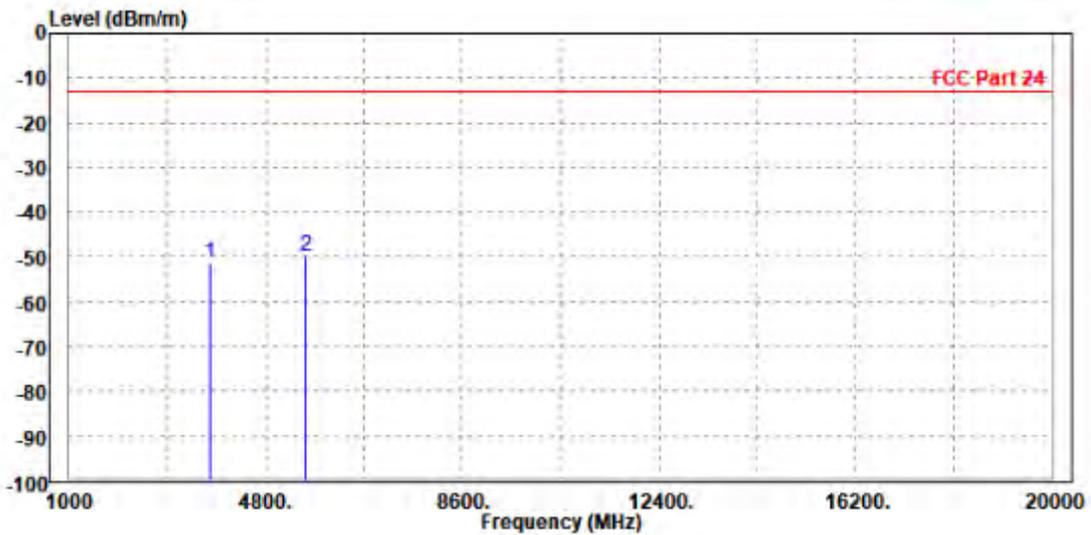


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VERITAS**

Test Report No.: W7L-P24100002RF06

<b>MODE</b>	TX channel 18650	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3717.000	-51.42	-60.05	-13.00	-38.42	8.63	Peak	Vertical
2 PP	5565.000	-49.77	-62.10	-13.00	-36.77	12.33	Peak	Vertical





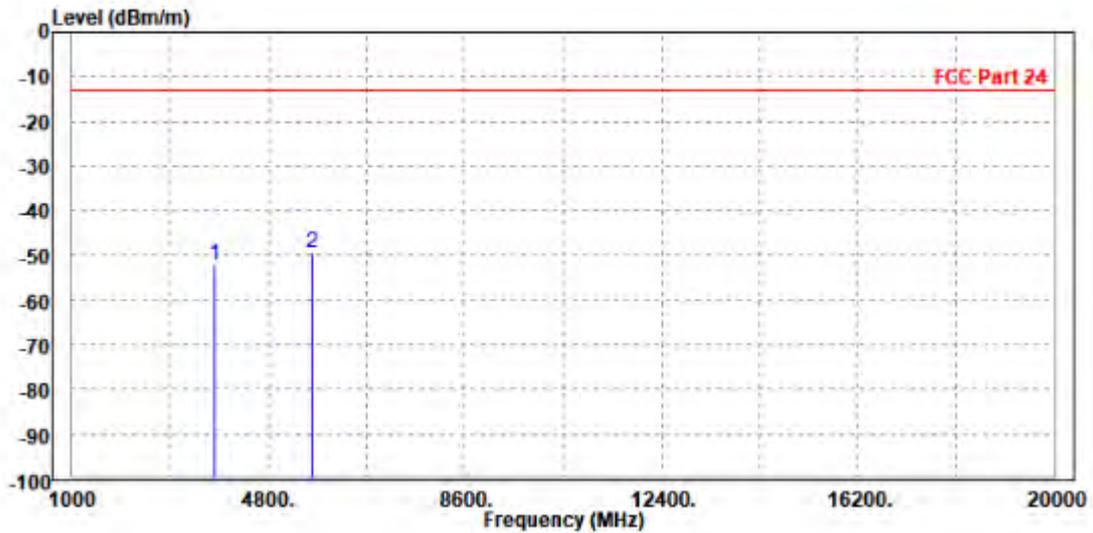
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VERITAS**

Test Report No.: W7L-P24100002RF06

CH18900

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-52.04	-60.40	-13.00	-39.04	8.36	Peak	Horizontal
2 PP	5640.000	-49.50	-61.31	-13.00	-36.50	11.81	Peak	Horizontal



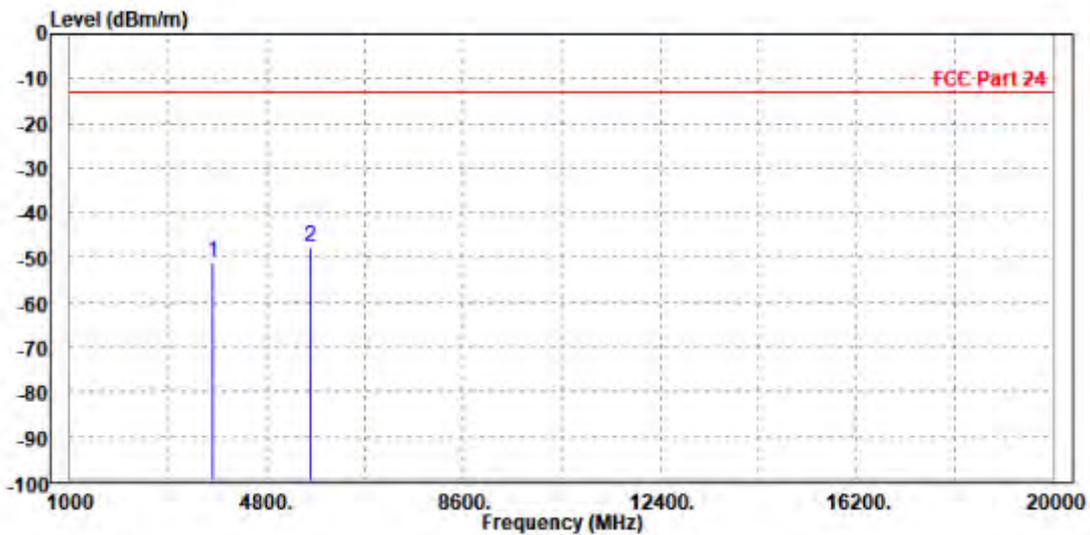


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VERITAS**

Test Report No.: W7L-P24100002RF06

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-51.05	-59.68	-13.00	-38.05	8.63	Peak	Vertical
2 PP	5636.000	-47.66	-59.98	-13.00	-34.66	12.32	Peak	Vertical





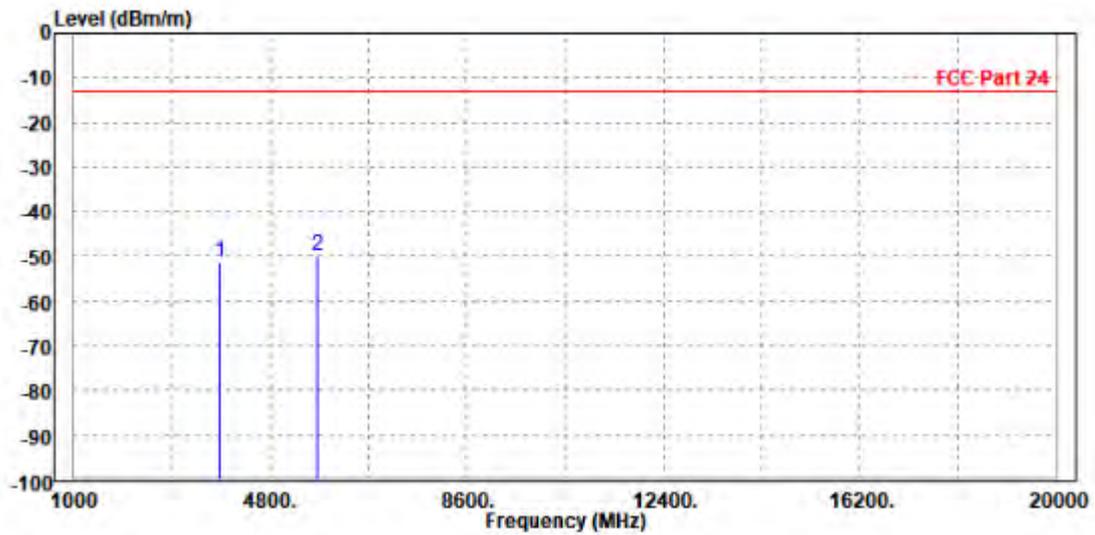
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Test Report No.: W7L-P24100002RF06

**CH19150**

<b>MODE</b>	TX channel 19150	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-51.27	-59.58	-13.00	-38.27	8.31	Peak	Horizontal
2 PP	5715.000	-49.62	-61.44	-13.00	-36.62	11.82	Peak	Horizontal



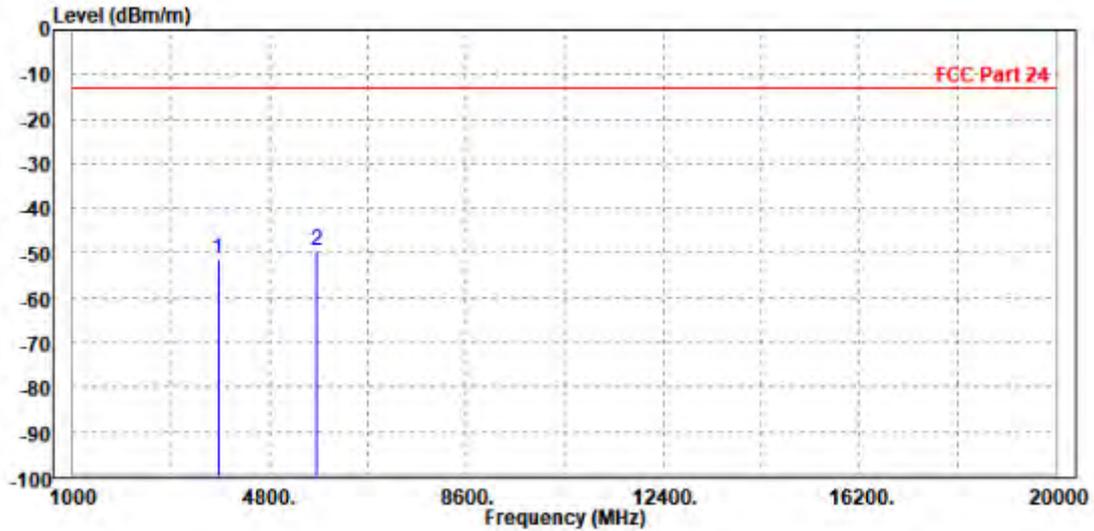


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Test Report No.: W7L-P24100002RF06

<b>MODE</b>	TX channel 19150	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3810.000	-51.44	-60.07	-13.00	-38.44	8.63	Peak	Vertical
2 PP	5712.000	-49.36	-61.67	-13.00	-36.36	12.31	Peak	Vertical





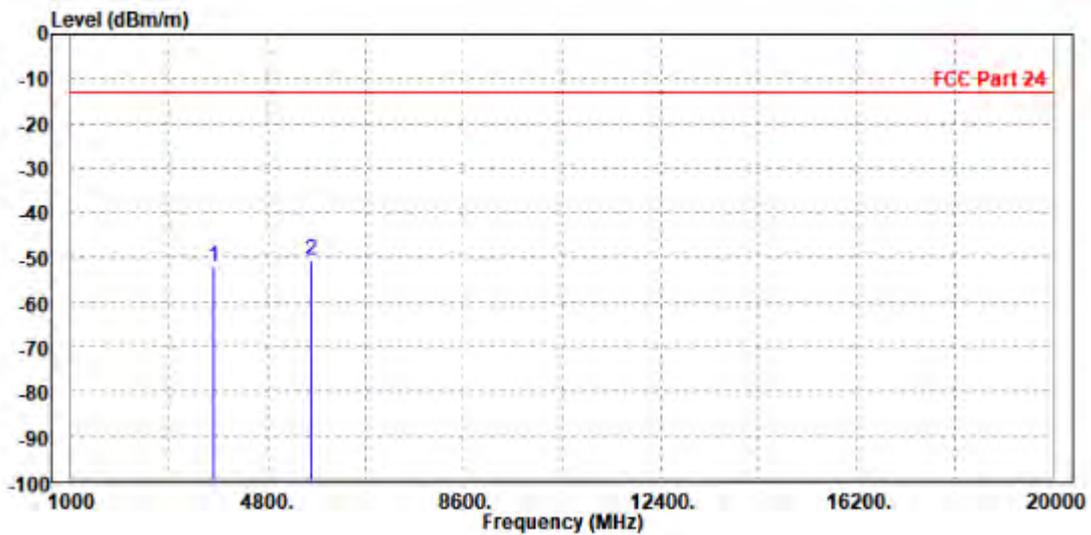
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Test Report No.: W7L-P24100002RF06

**CHANNEL BANDWIDTH: 15MHz / QPSK**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-52.00	-60.35	-13.00	-39.00	8.35	Peak	Horizontal
2 PP	5636.000	-50.44	-62.25	-13.00	-37.44	11.81	Peak	Horizontal



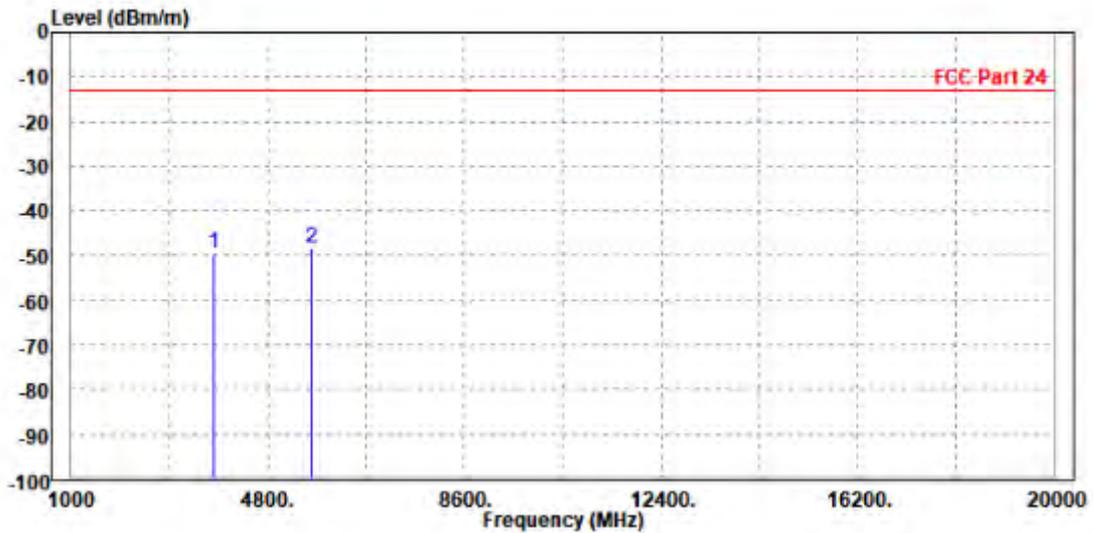


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VERITAS**

Test Report No.: W7L-P24100002RF06

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.28	-57.91	-13.00	-36.28	8.63	Peak	Vertical
2	PP 5640.000	-48.25	-60.57	-13.00	-35.25	12.32	Peak	Vertical





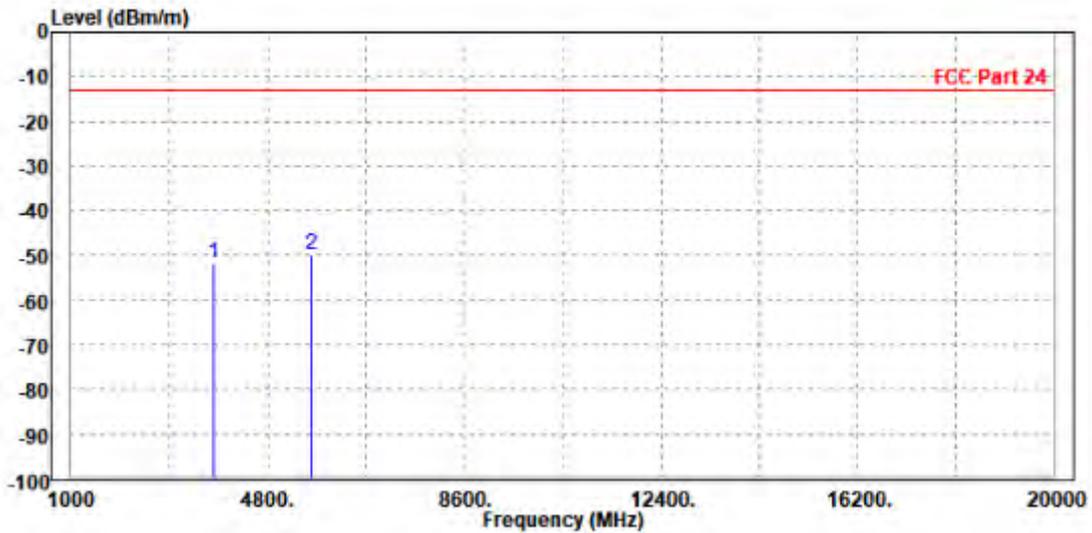
**BUREAU  
VERITAS**

Test Report No.: W7L-P24100002RF06

**CHANNEL BANDWIDTH: 20MHz / QPSK**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.64	-60.00	-13.00	-38.64	8.36	Peak	Horizontal
2 PP	5640.000	-49.65	-61.46	-13.00	-36.65	11.81	Peak	Horizontal



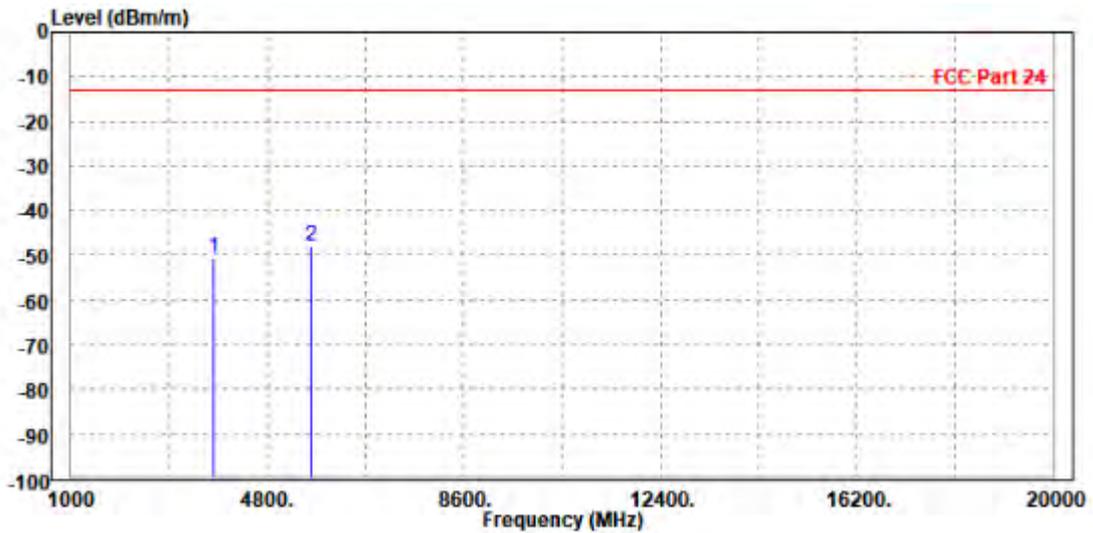


**BUREAU  
VERITAS**

Test Report No.: W7L-P24100002RF06

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	AC 120V/60Hz
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3760.000	-50.39	-59.02	-13.00	-37.39	8.63	Peak	Vertical
2 PP	5636.000	-48.05	-60.37	-13.00	-35.05	12.32	Peak	Vertical



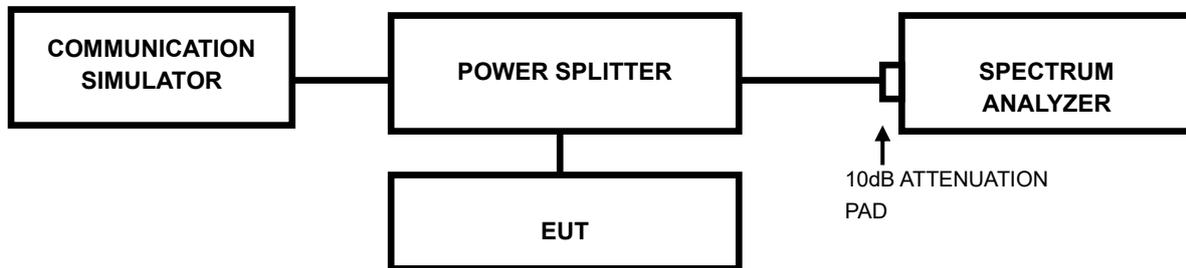


### 3.7 PEAK TO AVERAGE RATIO

#### 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-P24100002RF06**

### 3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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Test Report No.: W7L-P24100002RF06

## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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Test Report No.: W7L-P24100002RF06

## 5 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:**

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Fax: +86-755-88696577

**Email:** [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)

**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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



Test Report No.: W7L-P24100002RF06

## 6 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-P24100002RF06

## 7 APPENDIX

### GSM 1900

#### PEAK-TO-AVERAGE RATIO(CCDF)

##### Test Result

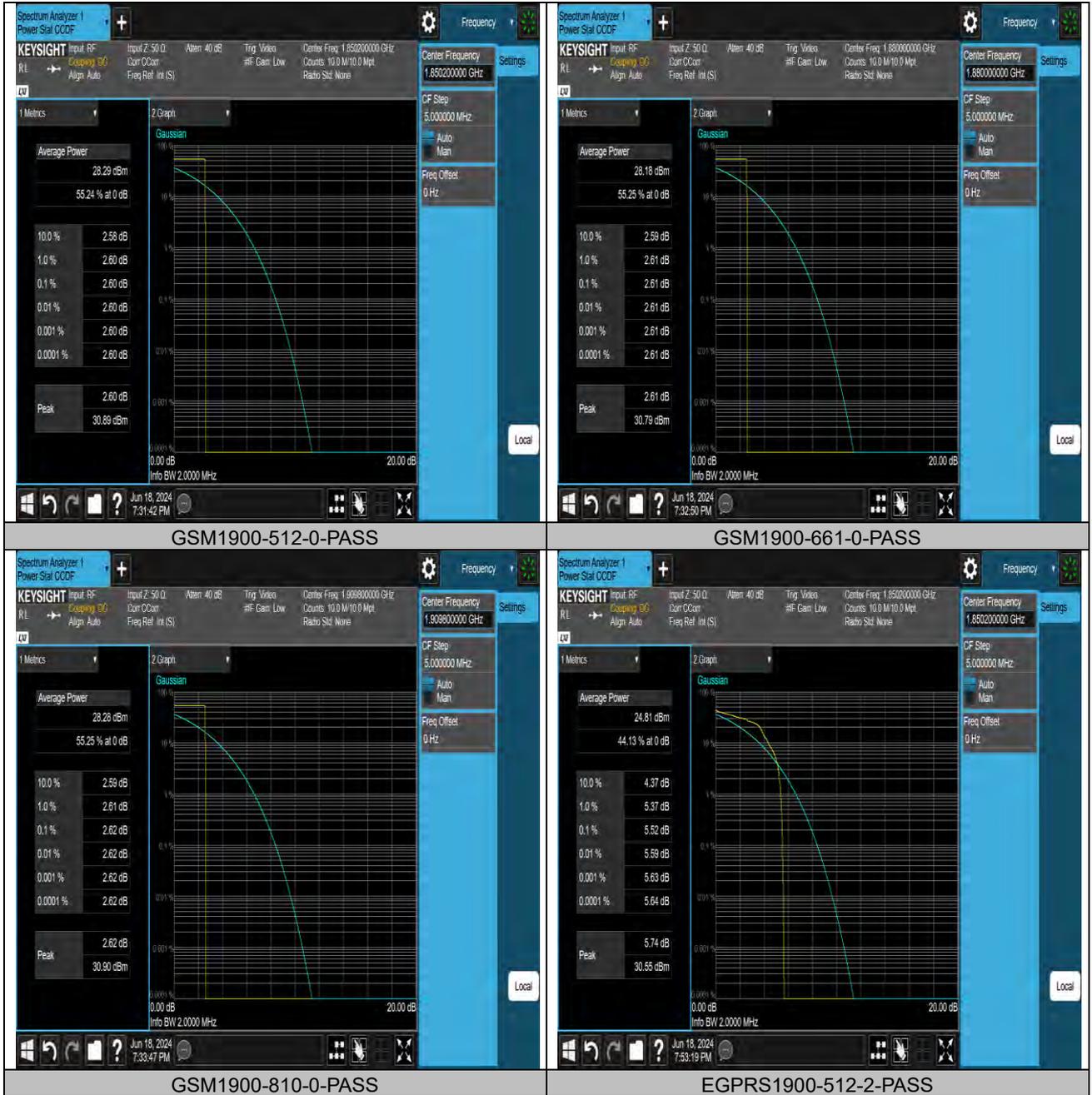
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM1900	512	2.60	13	PASS
GSM1900	661	2.61	13	PASS
GSM1900	810	2.62	13	PASS
EGPRS1900	512	5.52	13	PASS
EGPRS1900	661	5.47	13	PASS
EGPRS1900	810	5.51	13	PASS



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Test Report No.: W7L-P24100002RF06

### Test Graphs



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

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BUREAU VERITAS

Test Report No.: W7L-P2410002RF06



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Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



Test Report No.: W7L-P24100002RF06

## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

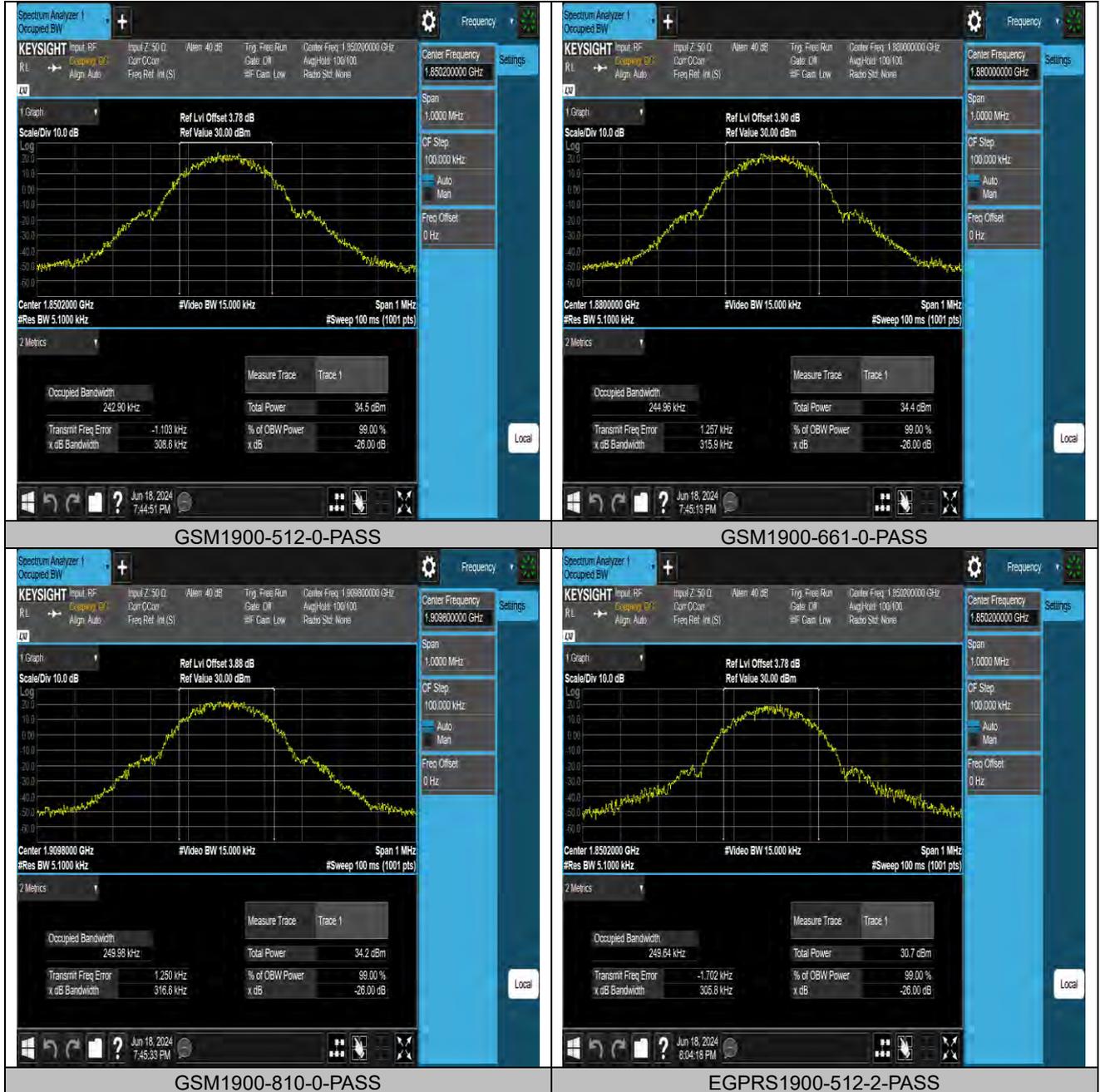
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM1900	512	0.24290	0.3086	---	PASS
GSM1900	661	0.24496	0.3159	---	PASS
GSM1900	810	0.24998	0.3166	---	PASS
EGPRS1900	512	0.24964	0.3058	---	PASS
EGPRS1900	661	0.24739	0.3167	---	PASS
EGPRS1900	810	0.25217	0.3099	---	PASS



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Test Report No.: W7L-P24100002RF06

### Test Graphs



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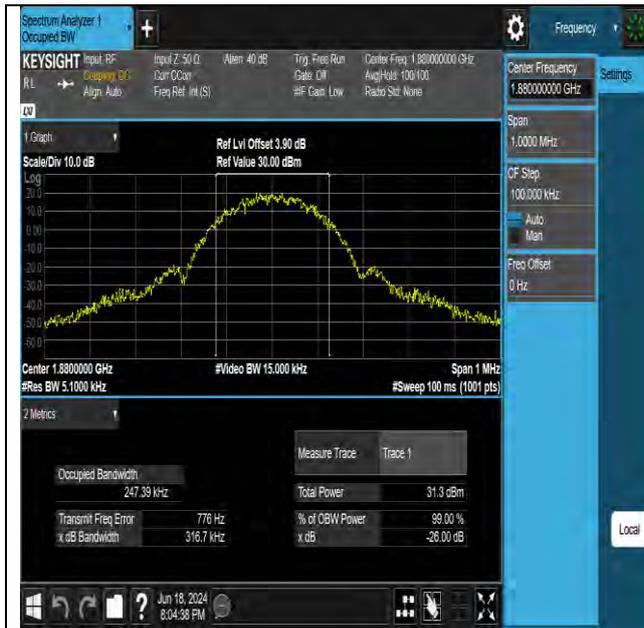
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Fax: +86 755 8869 6577

Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



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Test Report No.: W7L-P24100002RF06



EGPRS1900-661-2-PASS



EGPRS1900-810-2-PASS

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Test Report No.: W7L-P24100002RF06

## BAND EDGE

### Test Result

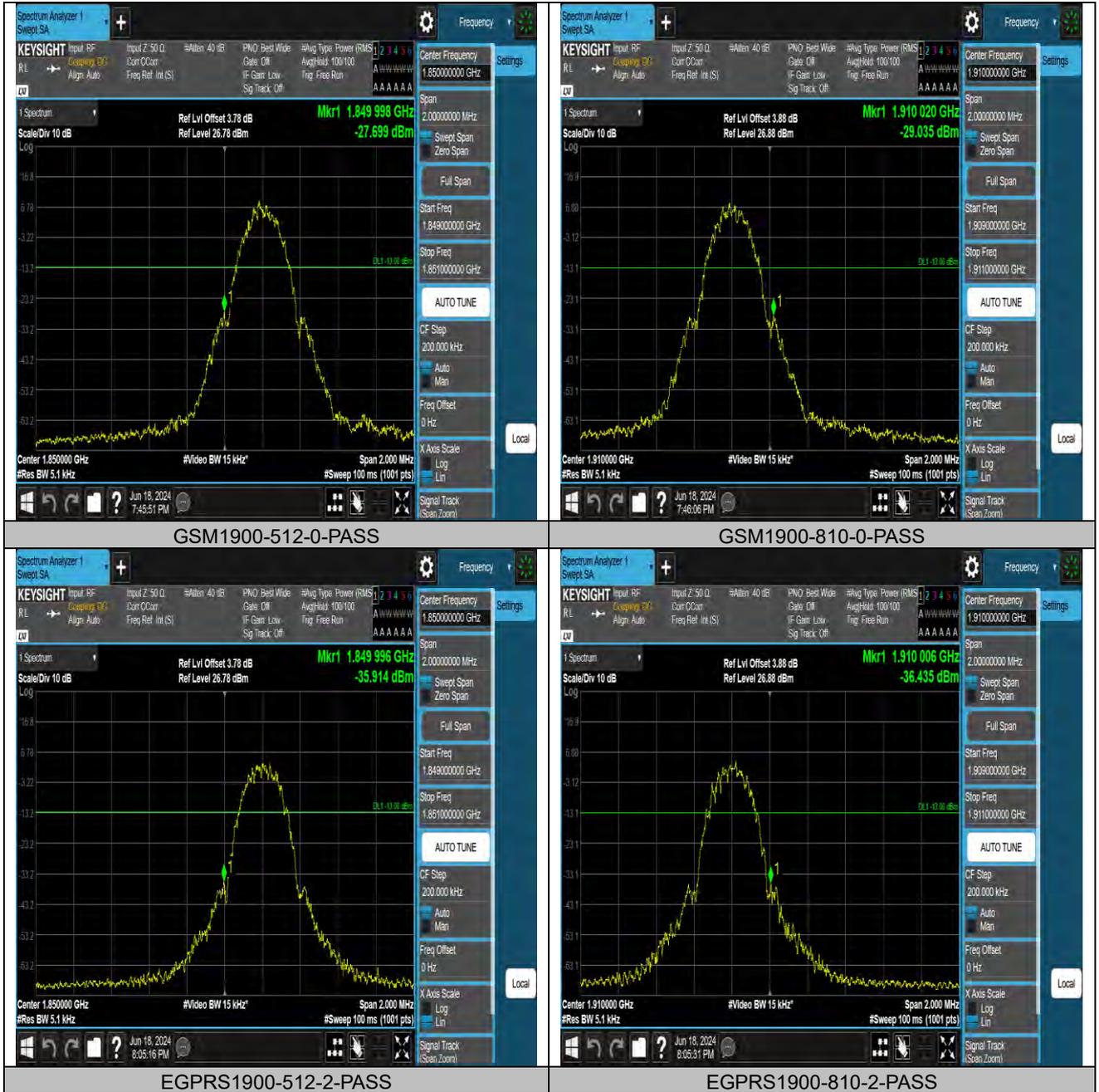
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1850.00	-27.70	-13	PASS
GSM1900	810	1910.02	-29.03	-13	PASS
EGPRS1900	512	1850.00	-35.91	-13	PASS
EGPRS1900	810	1910.01	-36.43	-13	PASS



BUREAU VERITAS

Test Report No.: W7L-P24100002RF06

### Test Graphs



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

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VERITAS

Test Report No.: W7L-P24100002RF06

## CONDUCTED SPURIOUS EMISSION

### Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	30~1000MHz	891.94	-49.71	-13	PASS
GSM1900	512	1000~10000MHz	3817	-31.7	-13	PASS
GSM1900	512	10000~20000MHz	19143	-38.39	-13	PASS
GSM1900	661	30~1000MHz	884.47	-49.74	-13	PASS
GSM1900	661	1000~10000MHz	3830.5	-31.74	-13	PASS
GSM1900	661	10000~20000MHz	19357	-38.3	-13	PASS
GSM1900	810	30~1000MHz	904.65	-49.78	-13	PASS
GSM1900	810	1000~10000MHz	3841.3	-31.78	-13	PASS
GSM1900	810	10000~20000MHz	19337.5	-38.38	-13	PASS
EGPRS1900	512	30~1000MHz	896.02	-49.68	-13	PASS
EGPRS1900	512	1000~10000MHz	3845.8	-31.87	-13	PASS
EGPRS1900	512	10000~20000MHz	19250.5	-38.4	-13	PASS
EGPRS1900	661	30~1000MHz	894.37	-49.8	-13	PASS
EGPRS1900	661	1000~10000MHz	3821.5	-31.68	-13	PASS
EGPRS1900	661	10000~20000MHz	19184.5	-38.3	-13	PASS
EGPRS1900	810	30~1000MHz	899.22	-49.75	-13	PASS
EGPRS1900	810	1000~10000MHz	3808.9	-31.67	-13	PASS
EGPRS1900	810	10000~20000MHz	19340.5	-38.28	-13	PASS



BUREAU VERITAS

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### Test Graphs



GSM1900-512-0-30~1000MHz-PASS



GSM1900-512-0-1000~10000MHz-PASS



GSM1900-512-0-1000~20000MHz-PASS



GSM1900-661-0-30~1000MHz-PASS

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

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GSM1900-661-0-1000~10000MHz-PASS



GSM1900-661-0-1000~20000MHz-PASS



GSM1900-810-0-30~1000MHz-PASS



GSM1900-810-0-1000~10000MHz-PASS

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EGPRS1900-661-2-30~1000MHz-PASS

EGPRS1900-661-2-1000~10000MHz-PASS



EGPRS1900-661-2-10000~20000MHz-PASS

EGPRS1900-810-2-30~1000MHz-PASS

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EGPRS1900-810-2-1000~10000MHz-PASS



EGPRS1900-810-2-1000~20000MHz-PASS

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## FREQUENCY STABILITY

### Test Result

Voltage									
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
GSM1900	512	VN	NT	-580.00	-0.313480	1850.07741	---	1850-1910	PASS
GSM1900	512	VL	NT	400.00	0.216193	1850.07854	---	1850-1910	PASS
GSM1900	512	VH	NT	430.00	0.232407	1850.0774	---	1850-1910	PASS
GSM1900	810	VN	NT	1360.00	0.712116	---	1909.924215	1850-1910	PASS
GSM1900	810	VL	NT	450.00	0.235627	---	1909.923035	1850-1910	PASS
GSM1900	810	VH	NT	890.00	0.466017	---	1909.923235	1850-1910	PASS

Temperature									
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
GSM1900	512	NV	-30	-260.00	-0.140525	1850.07766	---	1850-1910	PASS
GSM1900	512	NV	-20	-60.00	-0.032429	1850.07776	---	1850-1910	PASS
GSM1900	512	NV	-10	810.00	0.437791	1850.078715	---	1850-1910	PASS
GSM1900	512	NV	0	540.00	0.291860	1850.07796	---	1850-1910	PASS
GSM1900	512	NV	10	750.00	0.405362	1850.078485	---	1850-1910	PASS
GSM1900	512	NV	20	350.00	0.189169	1850.077435	---	1850-1910	PASS
GSM1900	512	NV	30	250.00	0.135121	1850.077925	---	1850-1910	PASS
GSM1900	512	NV	40	-160.00	-0.086477	1850.07863	---	1850-1910	PASS
GSM1900	512	NV	50	580.00	0.313480	1850.078935	---	1850-1910	PASS
GSM1900	810	NV	-30	820.00	0.429364	---	1909.923125	1850-1910	PASS
GSM1900	810	NV	-20	570.00	0.298461	---	1909.92266	1850-1910	PASS
GSM1900	810	NV	-10	270.00	0.141376	---	1909.920355	1850-1910	PASS
GSM1900	810	NV	0	-1570.00	-0.82207	---	1909.920	1850-1910	PASS



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VERITAS**

**Test Report No.: W7L-P24100002RF06**

0					6		57	0	
GSM190 0	810	NV	10	660.00	0.345586	---	1909.922 46	1850-191 0	PASS
GSM190 0	810	NV	20	270.00	0.141376	---	1909.923 04	1850-191 0	PASS
GSM190 0	810	NV	30	-610.00	-0.31940 5	---	1909.921 66	1850-191 0	PASS
GSM190 0	810	NV	40	510.00	0.267044	---	1909.923 41	1850-191 0	PASS
GSM190 0	810	NV	50	100.00	0.052362	---	1909.922 99	1850-191 0	PASS



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## WCDMA BAND2

### PEAK-TO-AVERAGE RATIO

#### Test Result

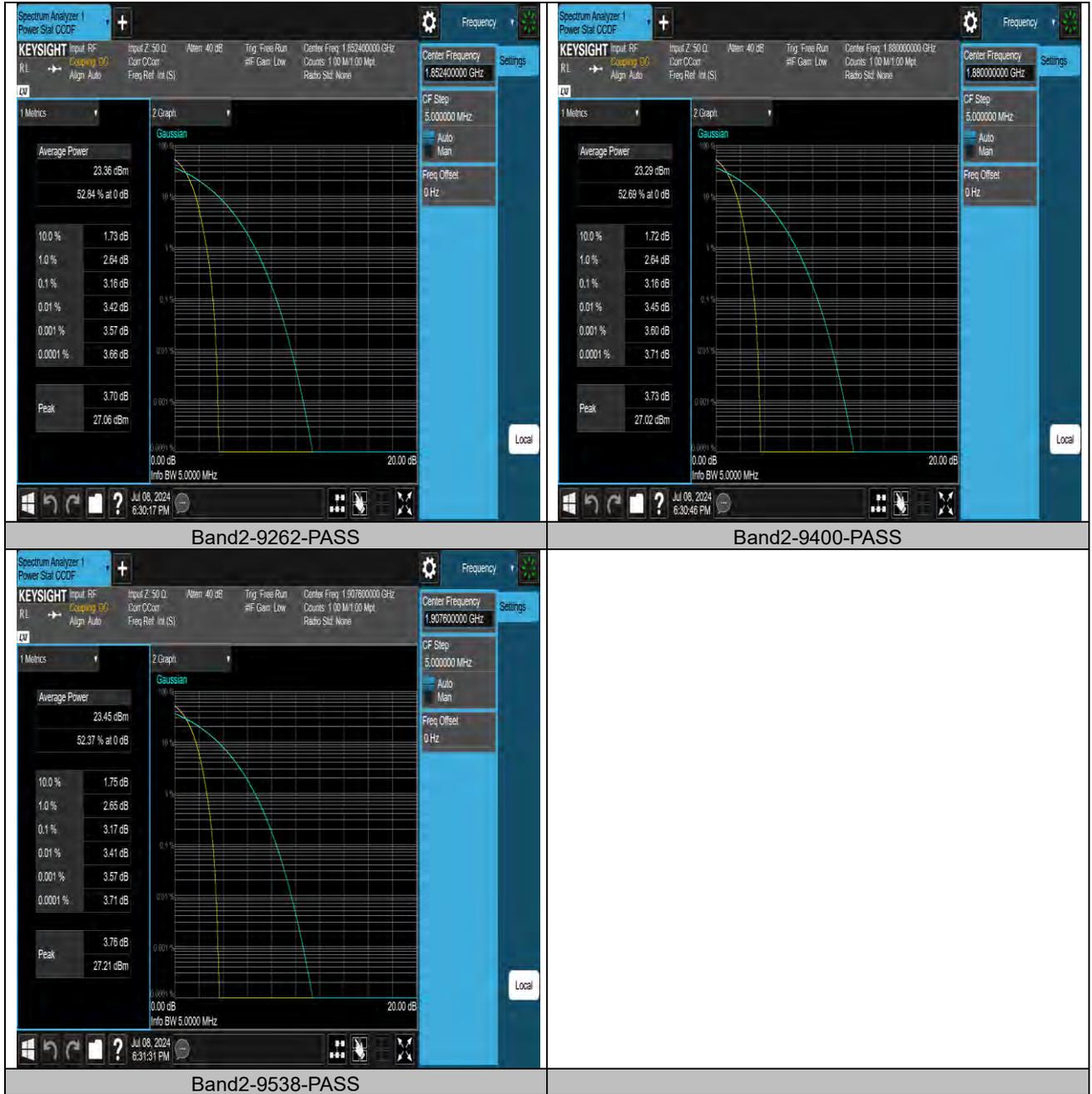
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band2	9262	3.16	13	PASS
Band2	9400	3.16	13	PASS
Band2	9538	3.17	13	PASS



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### Test Graphs





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## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.1657	4.701	---	PASS
Band2	9400	4.1639	4.695	---	PASS
Band2	9538	4.1606	4.696	---	PASS