



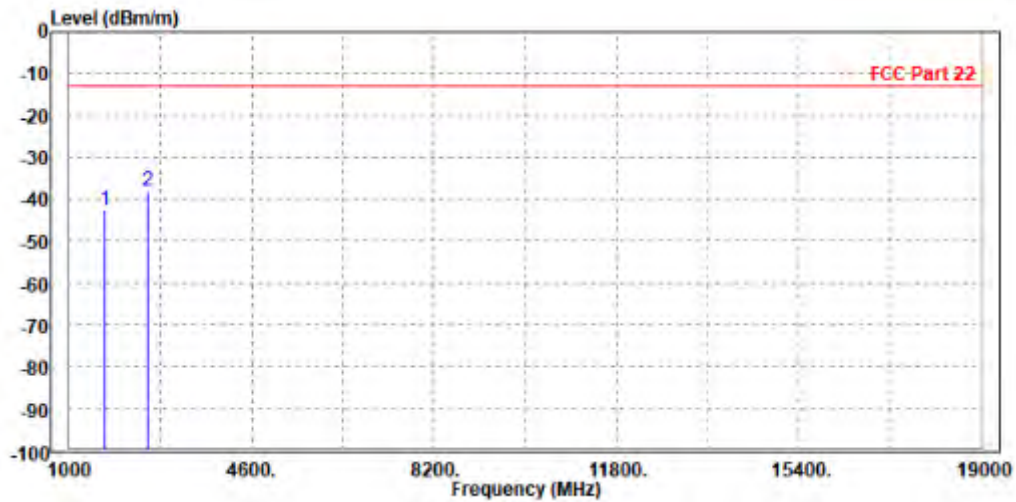
**BUREAU  
VERITAS**

Test Report No.: W7L-P22110001RF04

CH 251:

<b>MODE</b>	TX channel 251	<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	1702.000	-42.43	-43.64	-13.00	-29.43	1.21	Peak	Horizontal
2 PP	2546.400	-38.13	-43.68	-13.00	-25.13	5.55	Peak	Horizontal



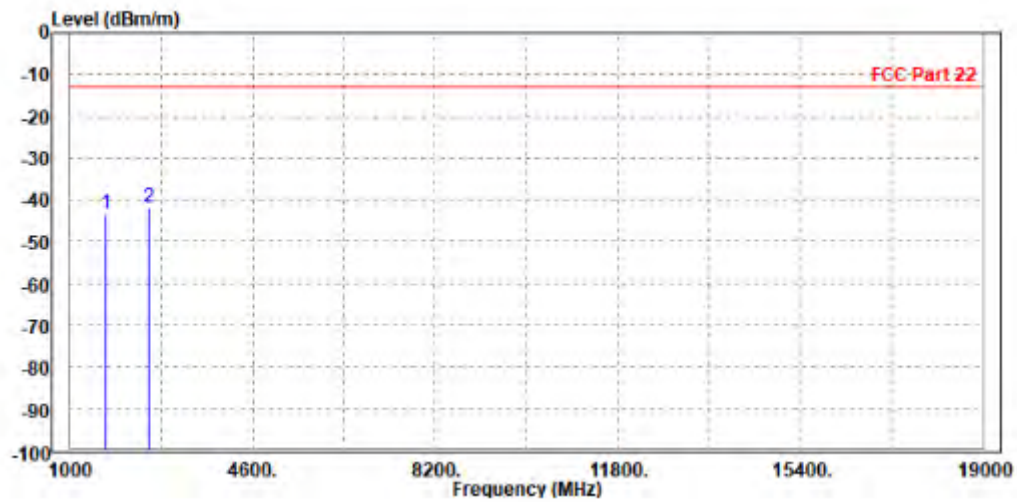


**BUREAU  
VERITAS**

**Test Report No.: W7L-P22110001RF04**

<b>MODE</b>	TX channel 251	<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	1697.600	-43.28	-44.68	-13.00	-30.28	1.40	Peak	Vertical
2 PP	2548.000	-41.84	-46.93	-13.00	-28.84	5.09	Peak	Vertical



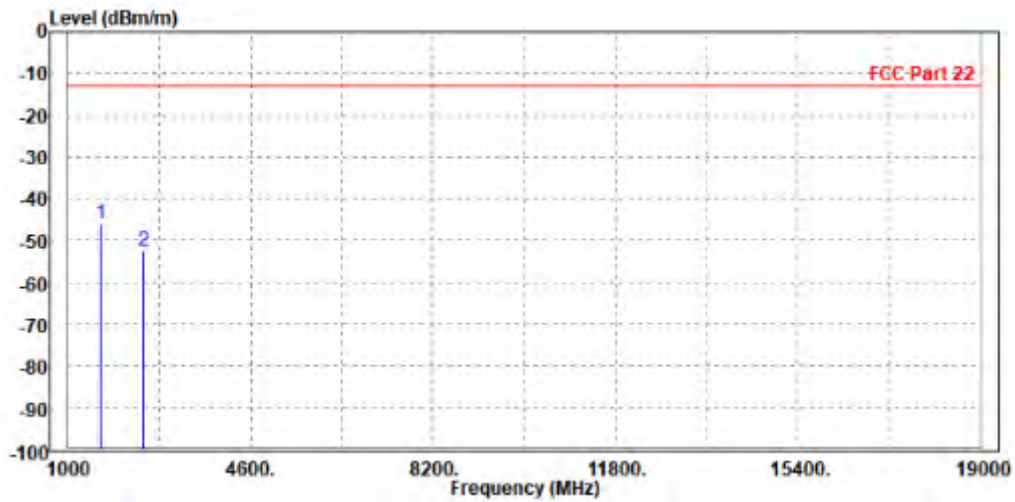


WCDMA Band V:

CH 4132:

MODE	TX channel 4132	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>			

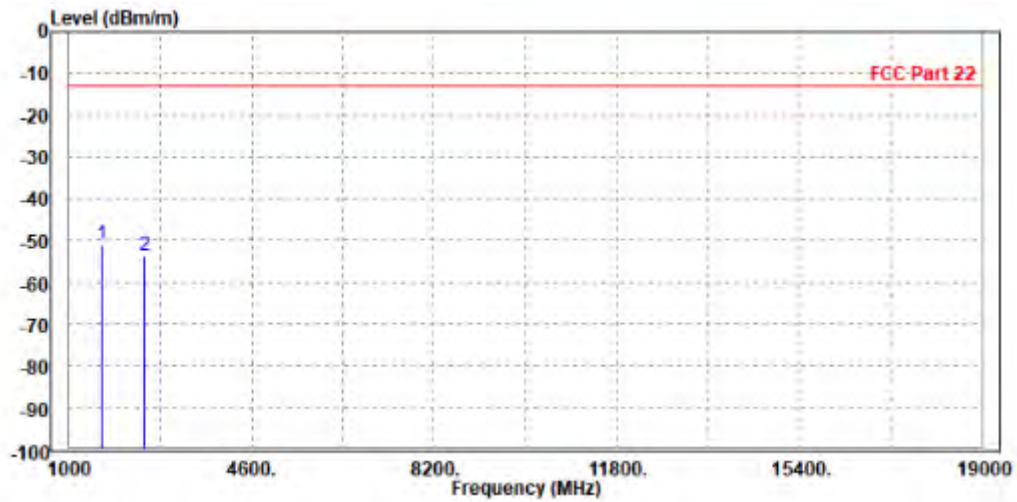
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 1652.800	-46.06	-46.87	-13.00	-33.06	0.81	Peak	Horizontal
2	2476.000	-52.32	-57.67	-13.00	-39.32	5.35	Peak	Horizontal





<b>MODE</b>	TX channel 4132	<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	PP 1648.000	-51.05	-52.09	-13.00	-38.05	1.04	Peak	Vertical
2	2479.200	-53.60	-58.48	-13.00	-40.60	4.88	Peak	Vertical

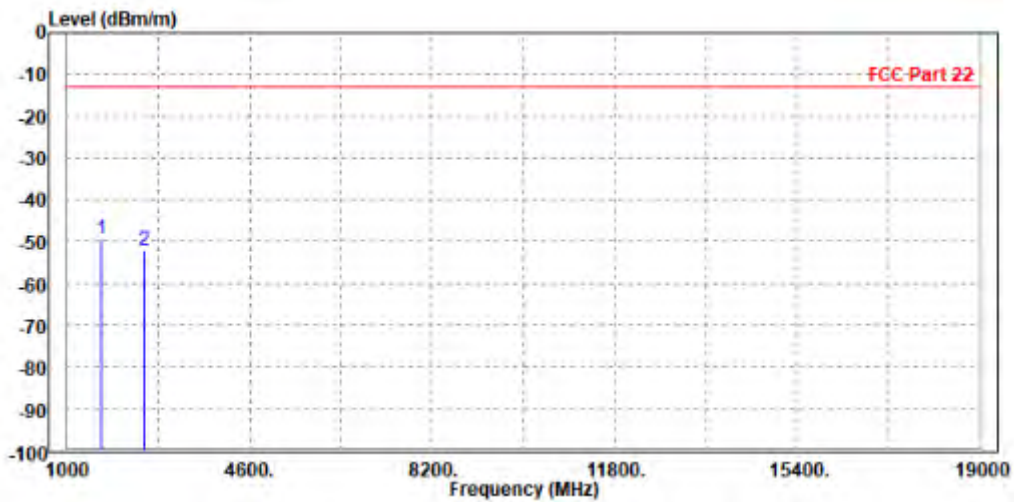




**CH 4182:**

<b>MODE</b>	TX channel 4182	<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	PP 1666.000	-49.26	-50.18	-13.00	-36.26	0.92	Peak	Horizontal
2	2509.200	-52.26	-57.72	-13.00	-39.26	5.46	Peak	Horizontal



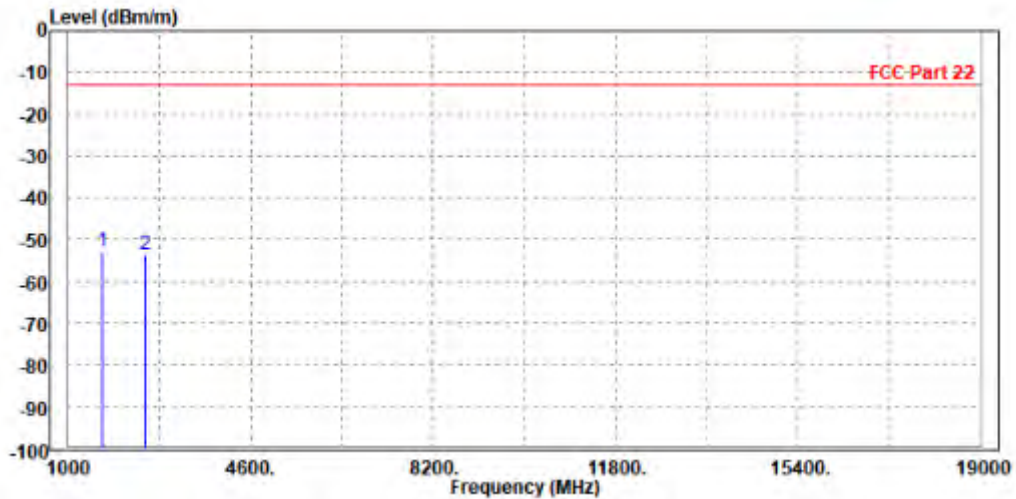


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**Test Report No.: W7L-P22110001RF04**

<b>MODE</b>	TX channel 4182	<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	PP 1672.800	-52.81	-54.03	-13.00	-39.81	1.22	Peak	Vertical
2	2512.000	-53.72	-58.70	-13.00	-40.72	4.98	Peak	Vertical



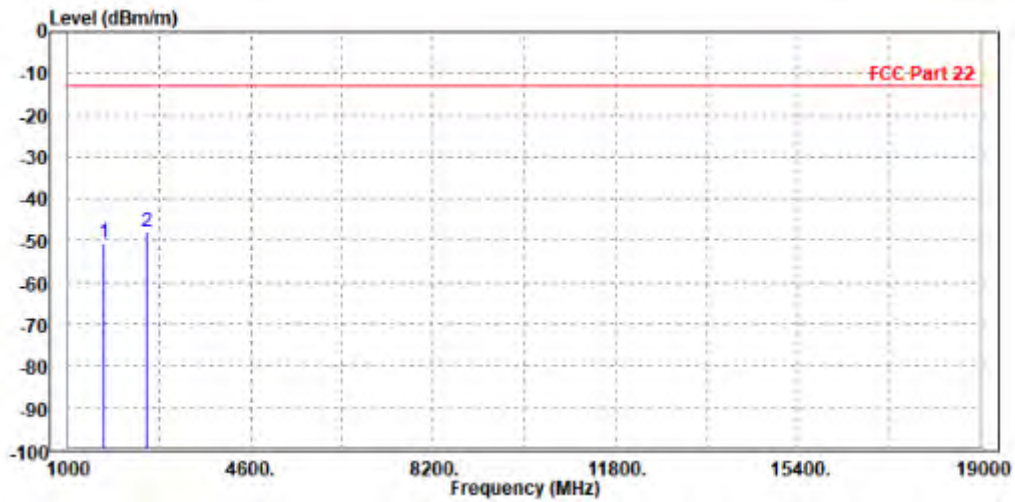




CH 4233:

MODE	TX channel 4233	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	1702.000	-50.54	-51.75	-13.00	-37.54	1.21	Peak	Horizontal
2 PP	2539.800	-48.02	-53.55	-13.00	-35.02	5.53	Peak	Horizontal



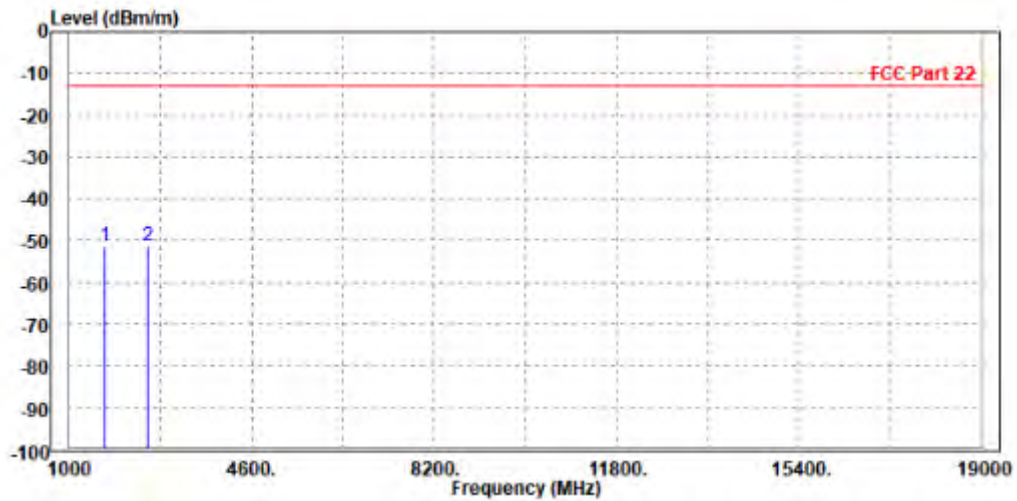


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Test Report No.: W7L-P22110001RF04

<b>MODE</b>	TX channel 4233	<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	1693.200	-51.48	-52.84	-13.00	-38.48	1.36	Peak	Vertical
2 PP	2548.000	-51.44	-56.53	-13.00	-38.44	5.09	Peak	Vertical







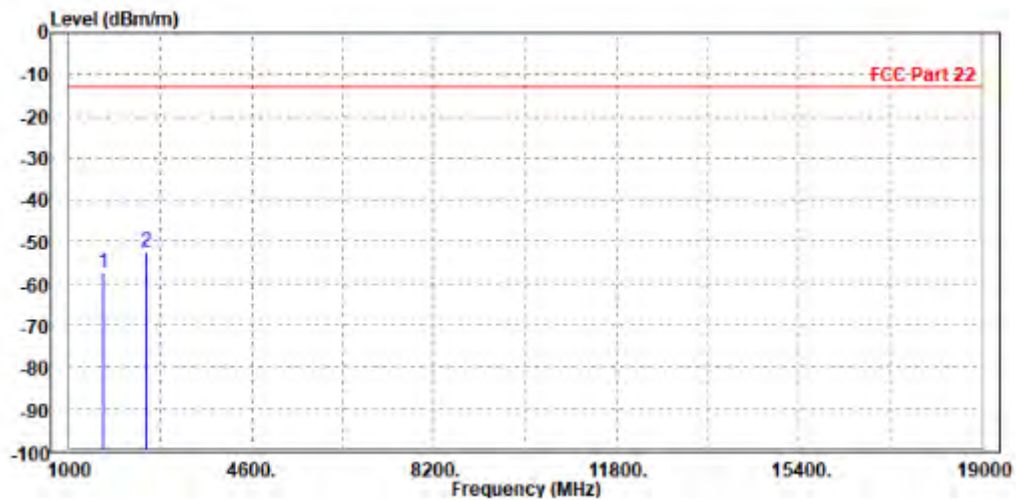
**LTE Band 26**

**CHANNEL BANDWIDTH: 1.4MHz / QPSK**

**CH26915**

<b>MODE</b>	TX channel 26915	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

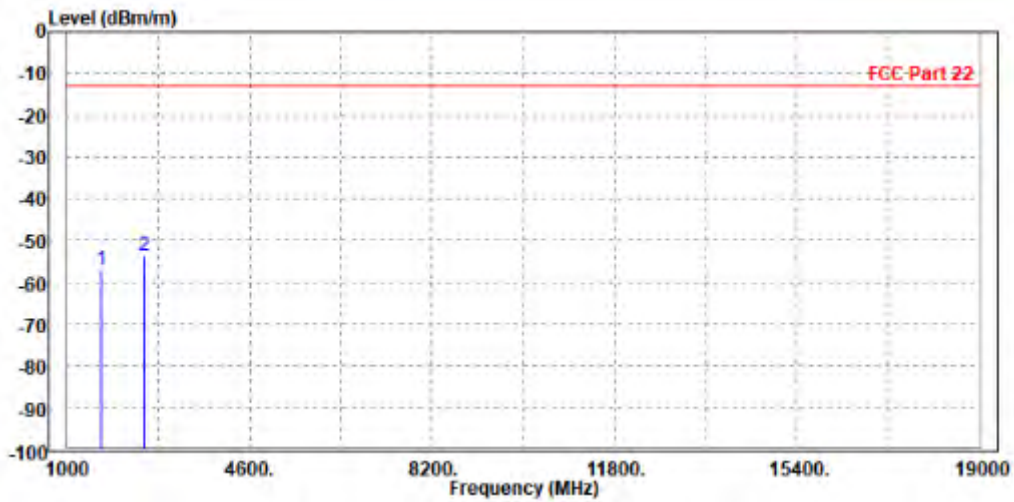
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Poi/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1673.000	-57.43	-58.41	-13.00	-44.43	0.98	Peak	Horizontal
2 PP	2512.000	-52.46	-57.93	-13.00	-39.46	5.47	Peak	Horizontal





<b>MODE</b>	TX channel 26915	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<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	1666.000	-57.16	-58.33	-13.00	-44.16	1.17	Peak	Vertical
2 PP	2509.500	-53.60	-58.57	-13.00	-40.60	4.97	Peak	Vertical

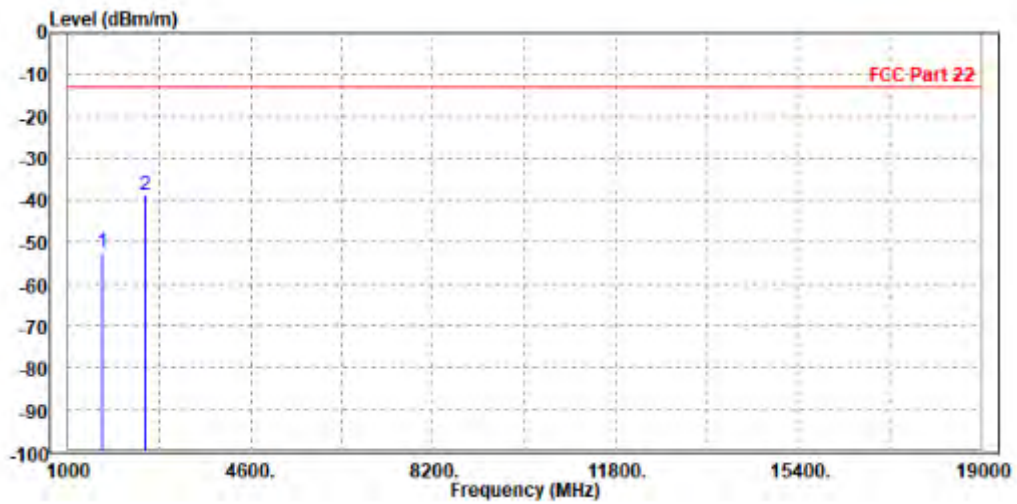




CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
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	1666.000	-52.42	-53.34	-13.00	-39.42	0.92	Peak	Horizontal
2 PP	2509.500	-38.96	-44.42	-13.00	-25.96	5.46	Peak	Horizontal



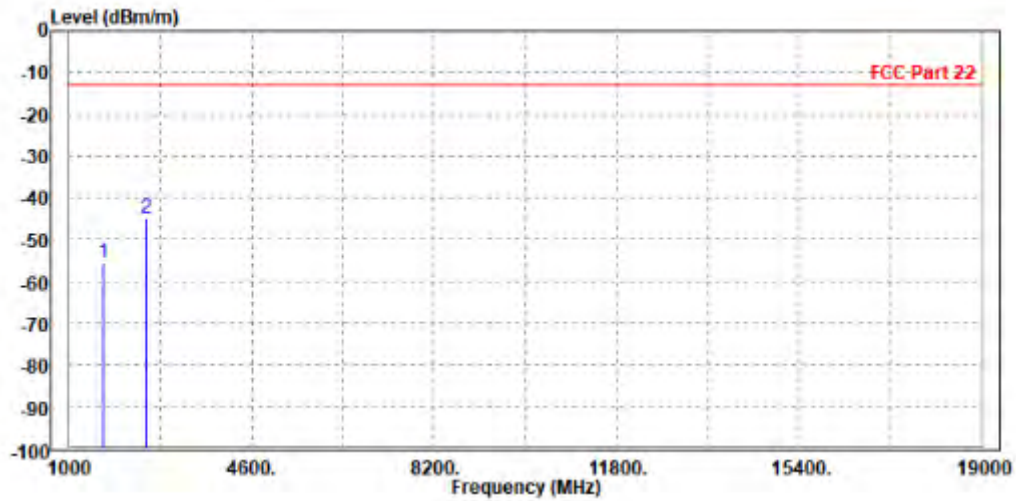


**BUREAU  
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Test Report No.: W7L-P22110001RF04

<b>MODE</b>	TX channel 26915	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<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	1673.000	-55.43	-56.65	-13.00	-42.43	1.22	Peak	Vertical
2 PP	2512.000	-44.70	-49.68	-13.00	-31.70	4.98	Peak	Vertical

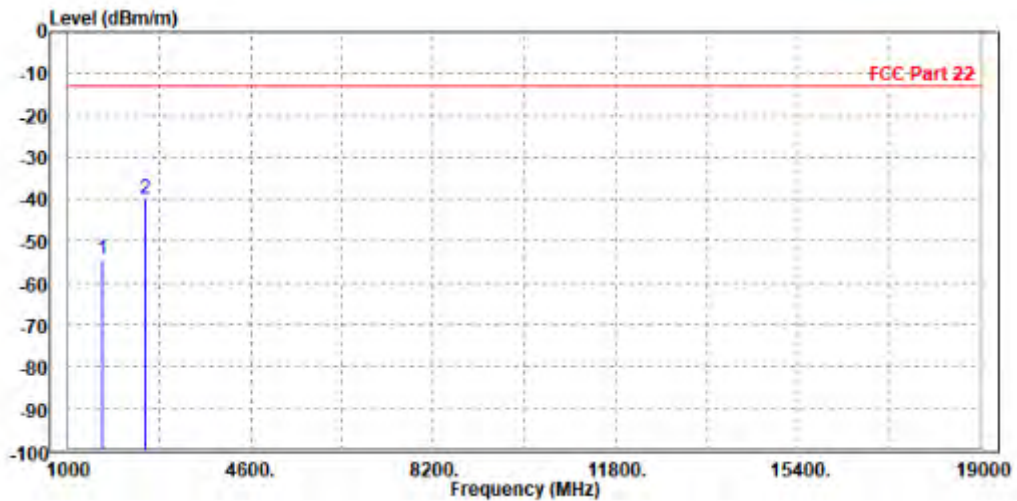




CHANNEL BANDWIDTH: 5MHz / QPSK

MODE	TX channel 26915	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
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	PoI/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1673.000	-54.26	-55.24	-13.00	-41.26	0.98	Peak	Horizontal
2 PP	2512.000	-39.80	-45.27	-13.00	-26.80	5.47	Peak	Horizontal



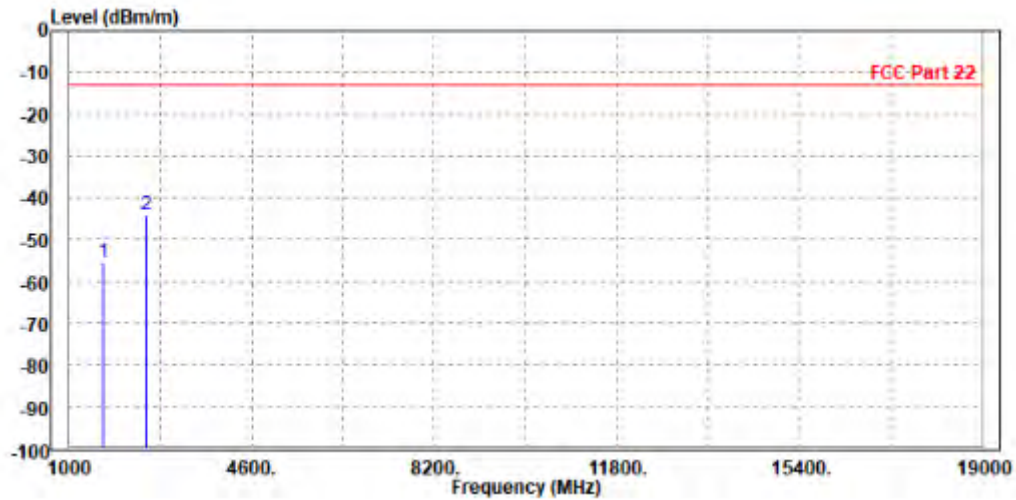


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VERITAS**

Test Report No.: W7L-P22110001RF04

<b>MODE</b>	TX channel 26915	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<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	1666.000	-55.63	-56.80	-13.00	-42.63	1.17	Peak	Vertical
2 PP	2509.500	-43.97	-48.94	-13.00	-30.97	4.97	Peak	Vertical





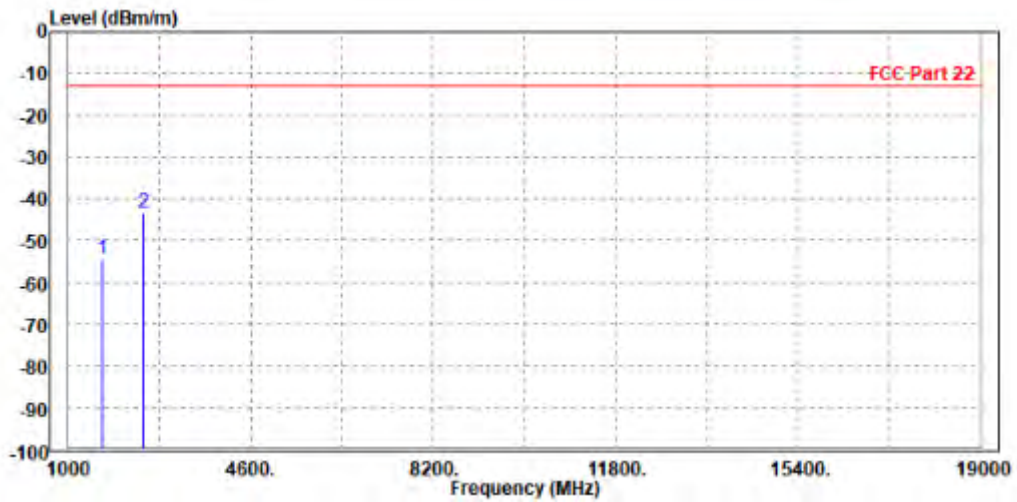


**CHANNEL BANDWIDTH: 10MHz / QPSK**

**CH26865**

<b>MODE</b>	TX channel 26865	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

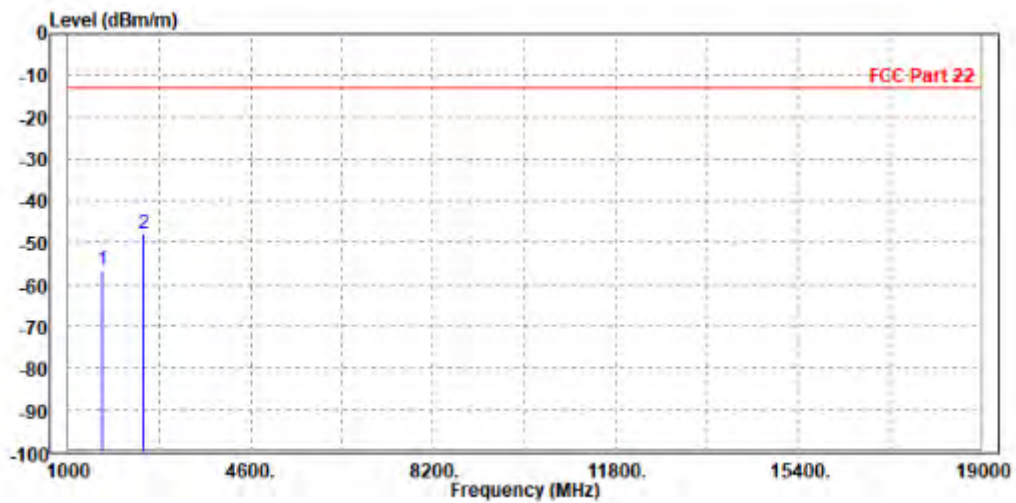
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	PoI/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1663.000	-54.39	-55.29	-13.00	-41.39	0.90	Peak	Horizontal
2 PP	2494.000	-43.24	-48.66	-13.00	-30.24	5.42	Peak	Horizontal





<b>MODE</b>	TX channel 26865	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<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	1666.000	-56.79	-57.96	-13.00	-43.79	1.17	Peak	Vertical
2 PP	2494.500	-47.85	-52.77	-13.00	-34.85	4.92	Peak	Vertical

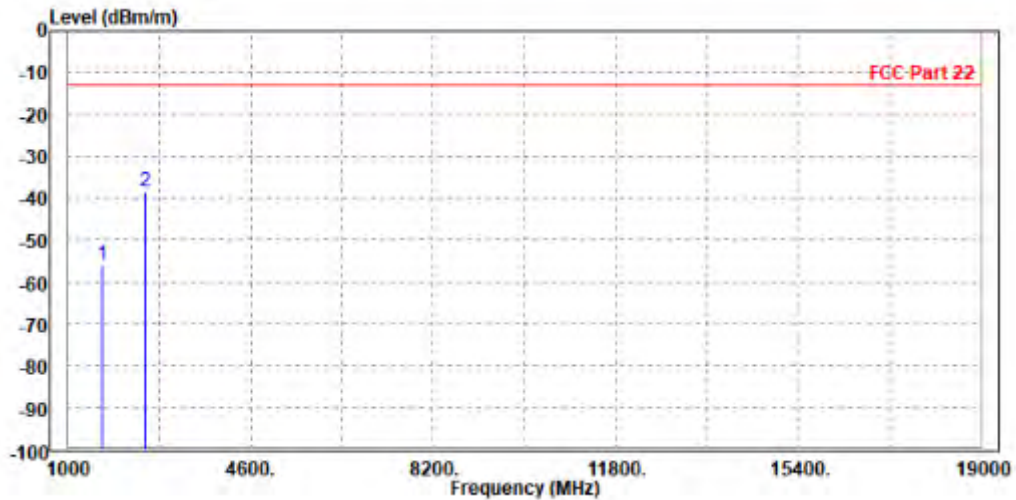




**CH26915**

<b>MODE</b>	TX channel 26915	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<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	1673.000	-56.06	-57.04	-13.00	-43.06	0.98	Peak	Horizontal
2 PP	2512.000	-38.41	-43.88	-13.00	-25.41	5.47	Peak	Horizontal



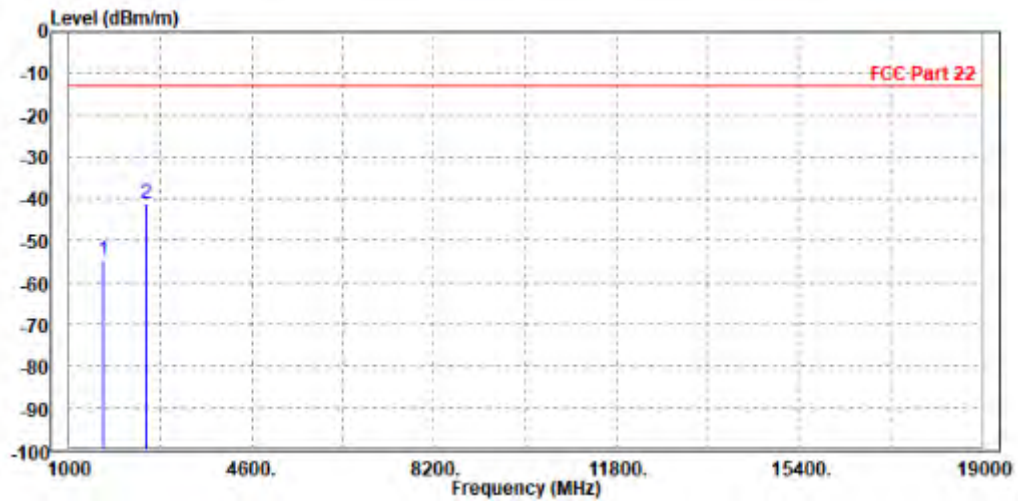


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**Test Report No.: W7L-P22110001RF04**

<b>MODE</b>	TX channel 26915	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<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	1666.000	-54.72	-55.89	-13.00	-41.72	1.17	Peak	Vertical
2 PP	2509.500	-41.01	-45.98	-13.00	-28.01	4.97	Peak	Vertical





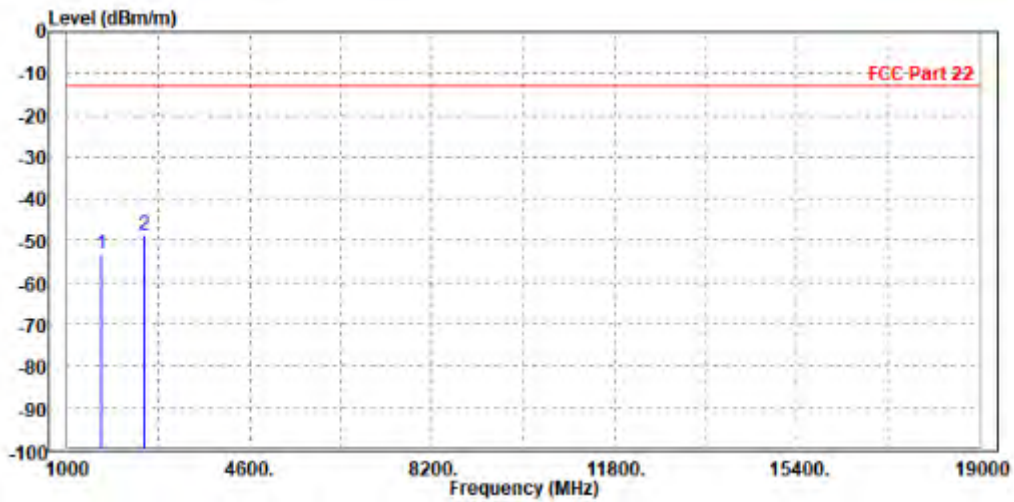
**BUREAU  
VERITAS**

Test Report No.: W7L-P22110001RF04

CH26965

<b>MODE</b>	TX channel 26965	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

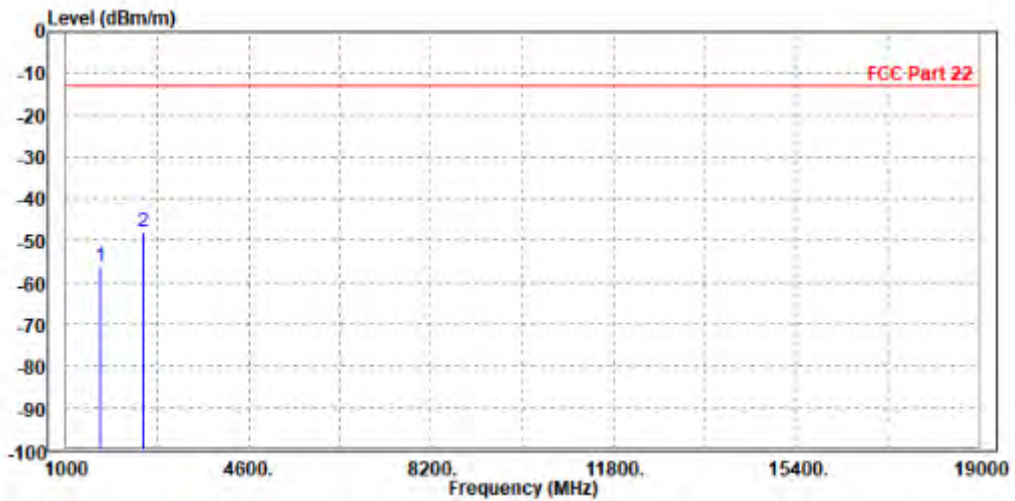
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1683.000	-53.39	-54.45	-13.00	-40.39	1.06	Peak	Horizontal
2 PP	2530.000	-48.66	-54.17	-13.00	-35.66	5.51	Peak	Horizontal





<b>MODE</b>	TX channel 26965	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<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	1684.000	-56.10	-57.40	-13.00	-43.10	1.30	Peak	Vertical
2 PP	2524.500	-47.82	-52.84	-13.00	-34.82	5.02	Peak	Vertical







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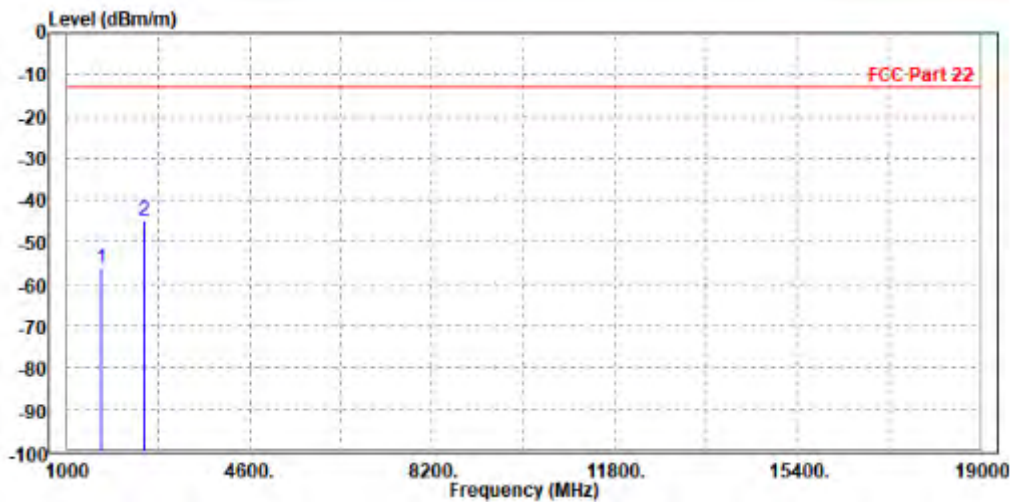
Test Report No.: W7L-P22110001RF04

CHANNEL BANDWIDTH: 15MHz / QPSK

CH26915

<b>MODE</b>	TX channel 26915	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<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	1666.000	-56.10	-57.02	-13.00	-43.10	0.92	Peak	Horizontal
2 PP	2509.500	-44.89	-50.35	-13.00	-31.89	5.46	Peak	Horizontal



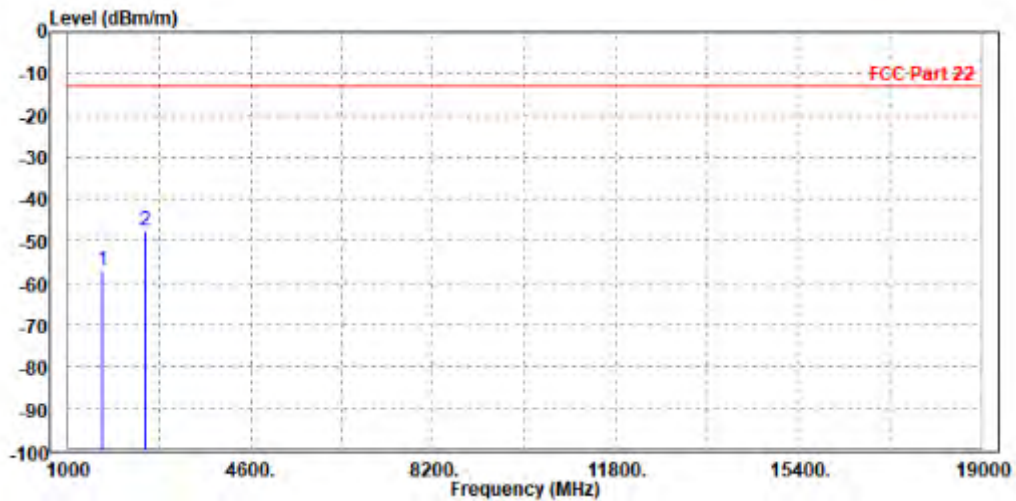


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**Test Report No.: W7L-P22110001RF04**

<b>MODE</b>	TX channel 26915	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<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	1673.000	-57.11	-58.33	-13.00	-44.11	1.22	Peak	Vertical
2 PP	2512.000	-47.51	-52.49	-13.00	-34.51	4.98	Peak	Vertical

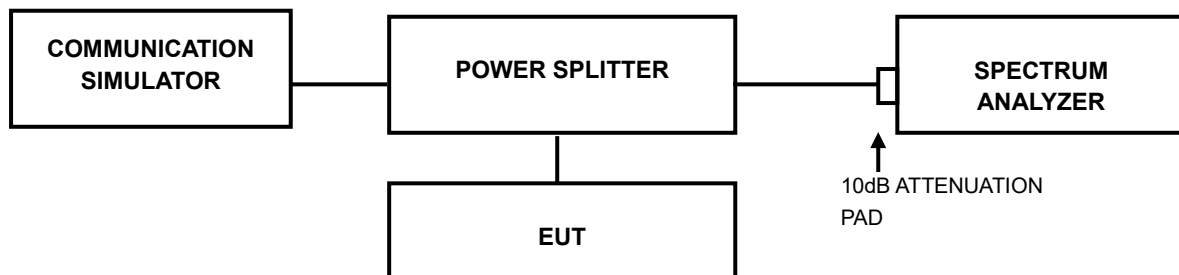


### 3.7 PEAK TO AVERAGE RATIO

#### 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-P22110001RF04**

### 3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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Test Report No.: W7L-P22110001RF04

## 4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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**VERITAS**

Test Report No.: W7L-P22110001RF04

## 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:**

Tel: +86-755-88696566

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.





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Test Report No.: W7L-P22110001RF04

## **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.



## 7 APPENDIX

### GSM850

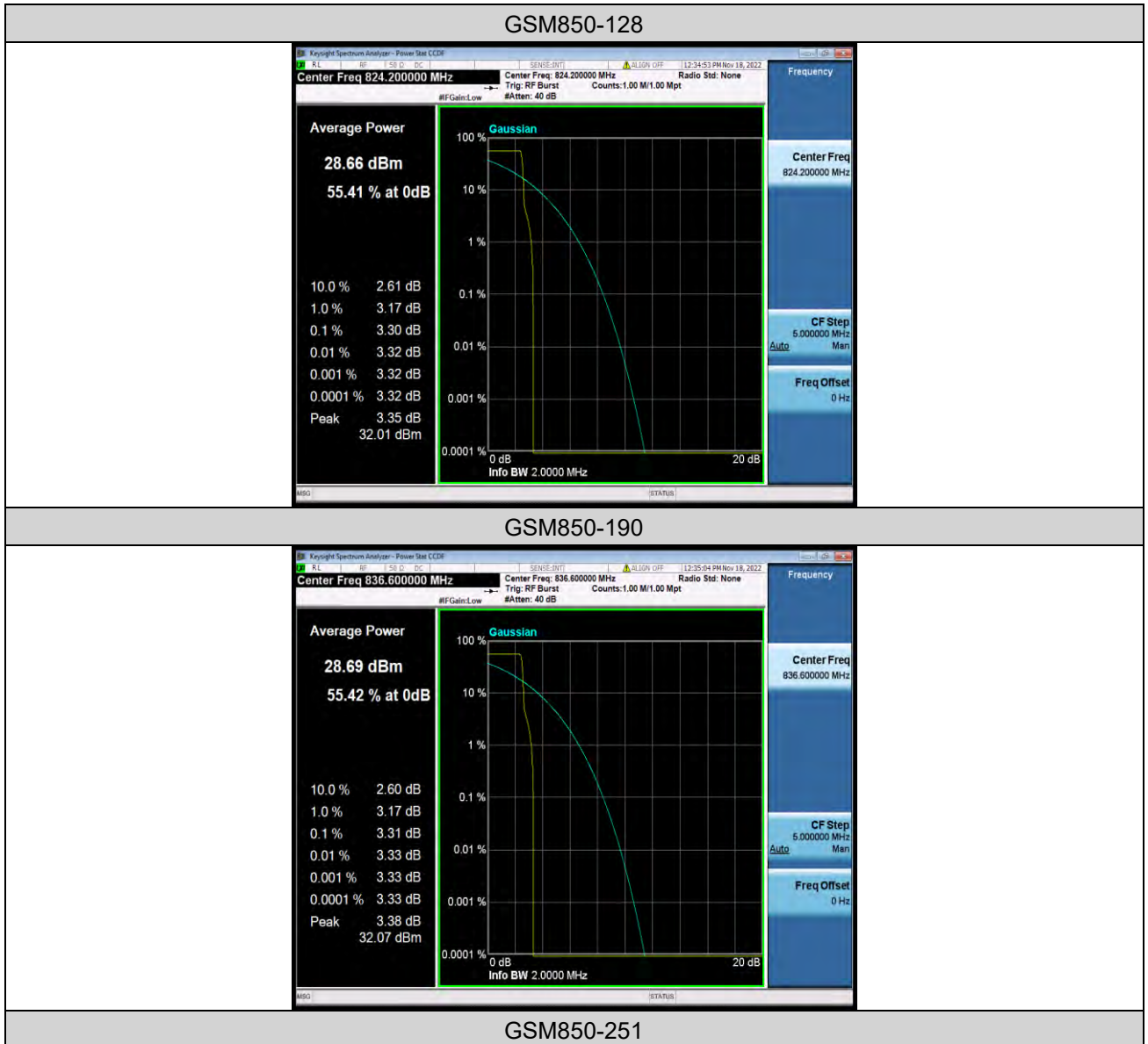
#### PEAK-TO-AVERAGE RATIO(CCDF)

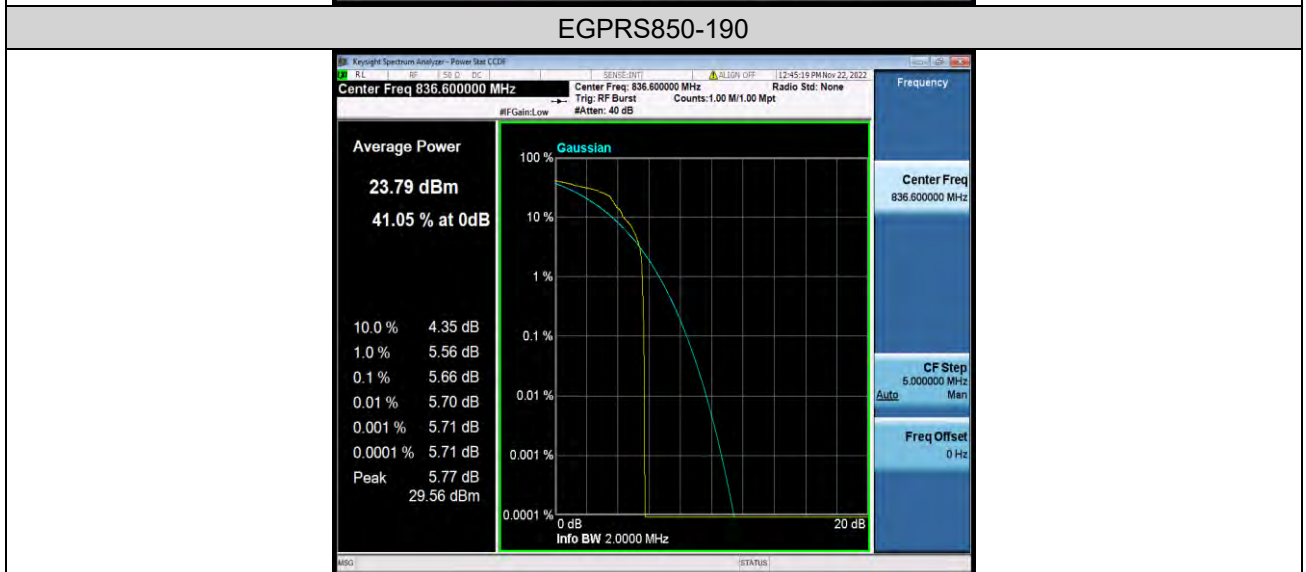
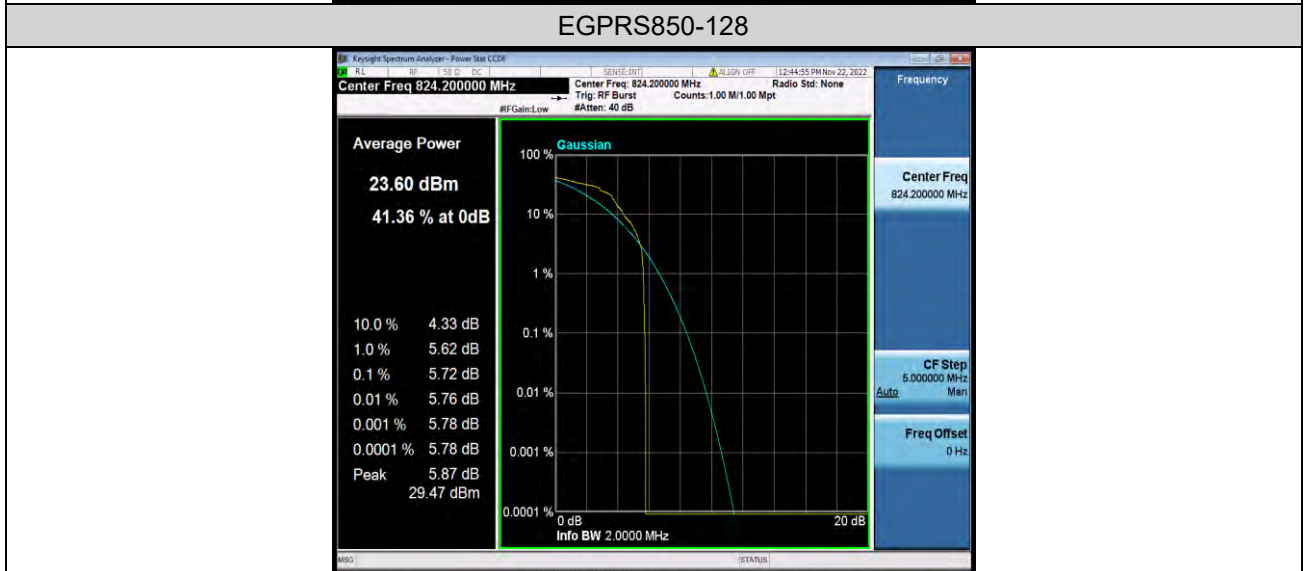
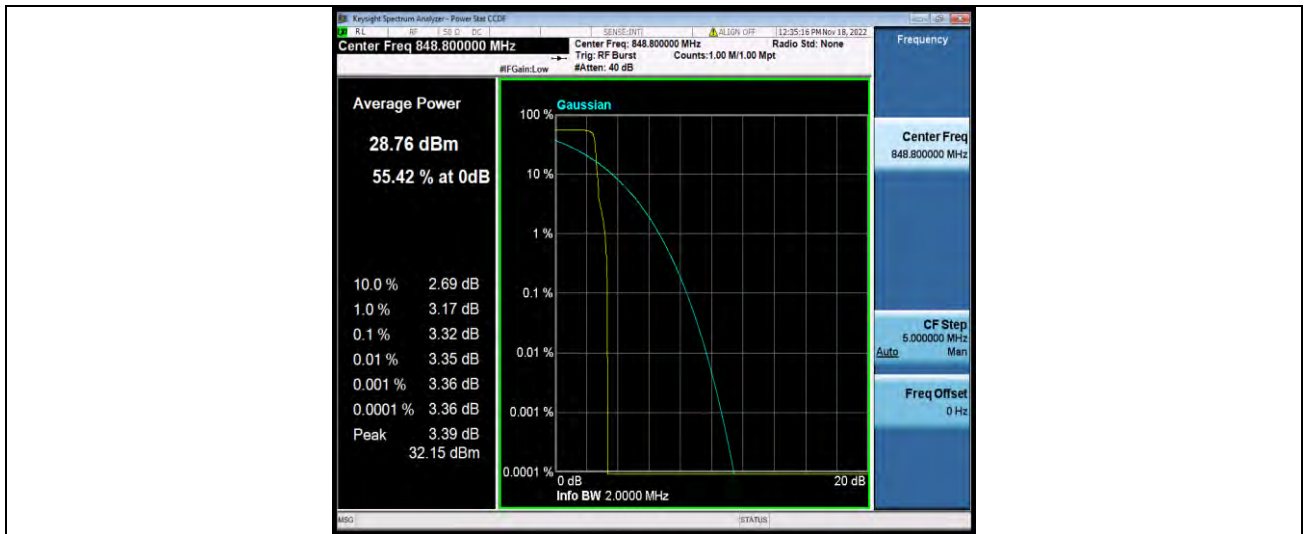
##### Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	3.30	13	PASS
GSM850	190	3.31	13	PASS
GSM850	251	3.32	13	PASS
EGPRS850	128	5.72	13	PASS
EGPRS850	190	5.66	13	PASS
EGPRS850	251	5.68	13	PASS



### Test Graphs

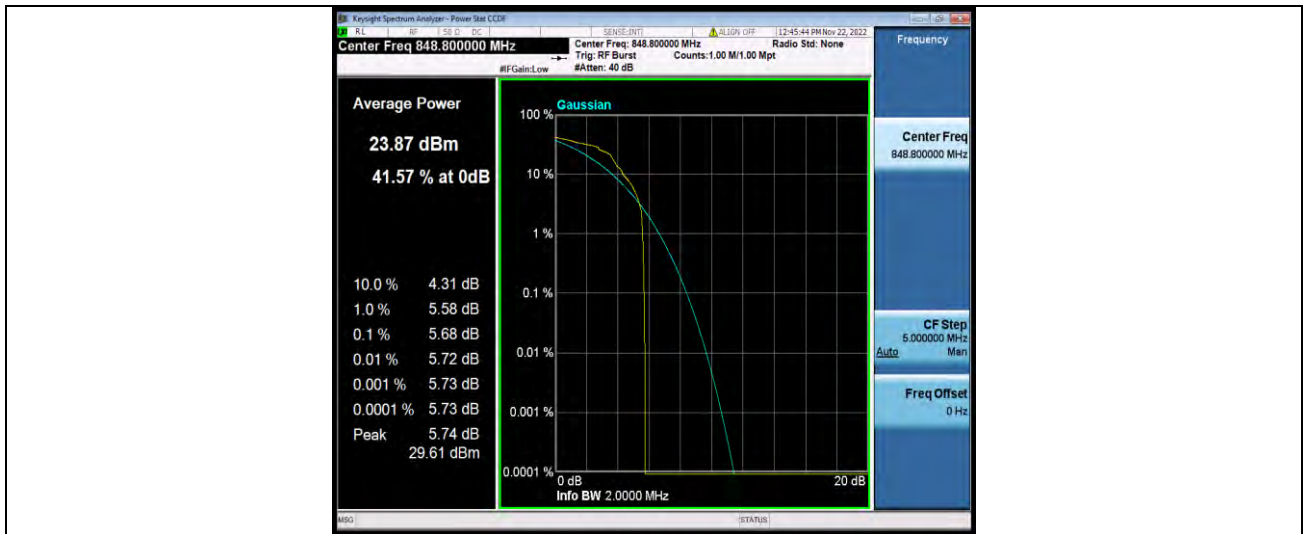






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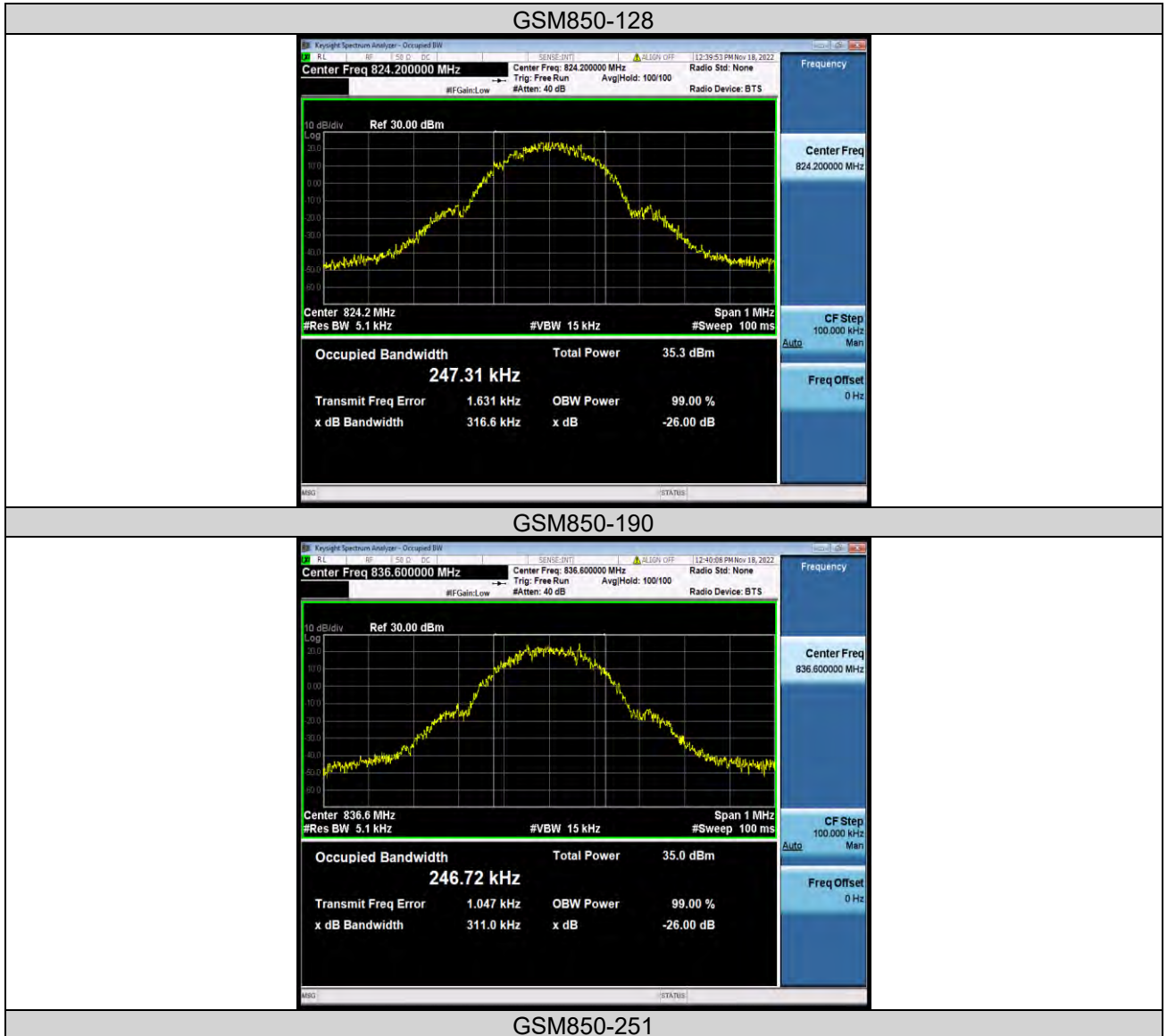
## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24731	0.3166	---	PASS
GSM850	190	0.24672	0.3110	---	PASS
GSM850	251	0.24446	0.3095	---	PASS
EGPRS850	128	0.24994	0.3030	---	PASS
EGPRS850	190	0.24535	0.3076	---	PASS
EGPRS850	251	0.24512	0.3089	---	PASS



### Test Graphs

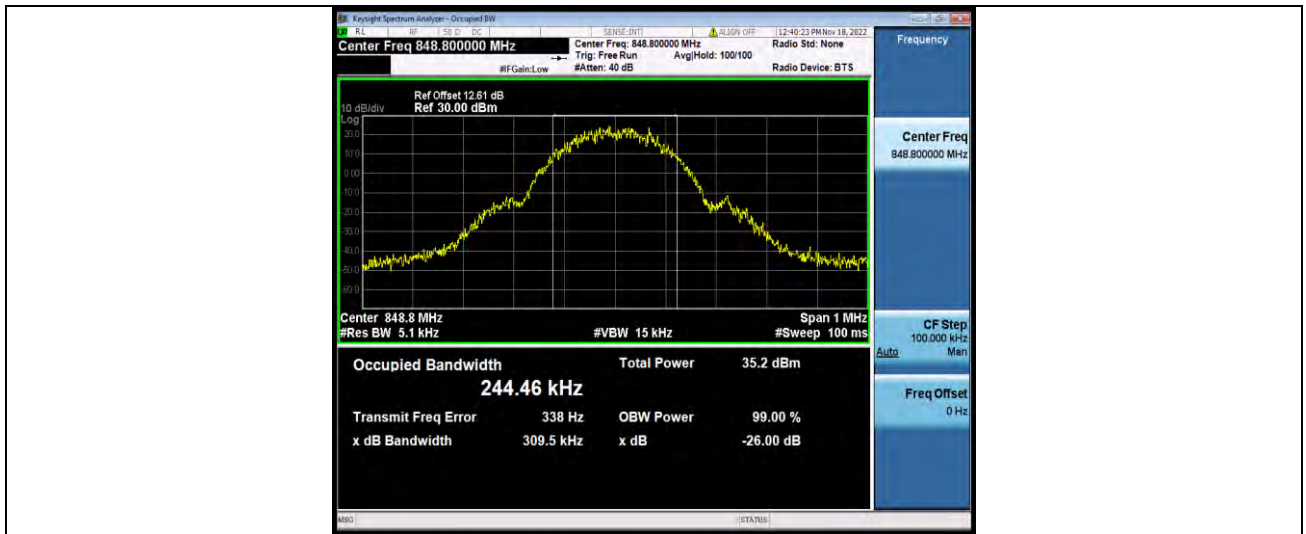




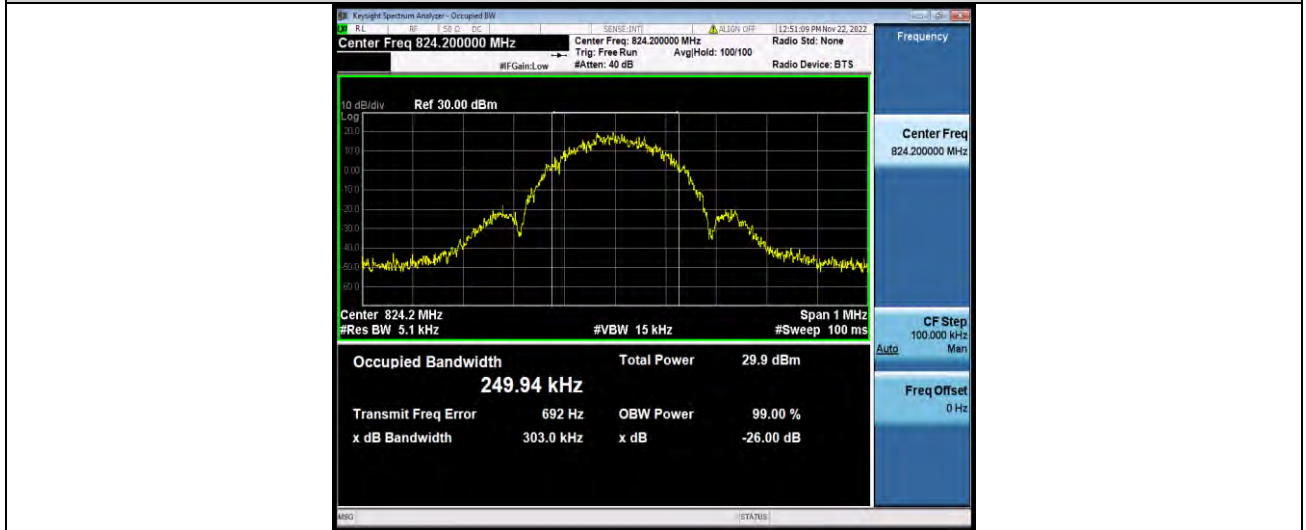


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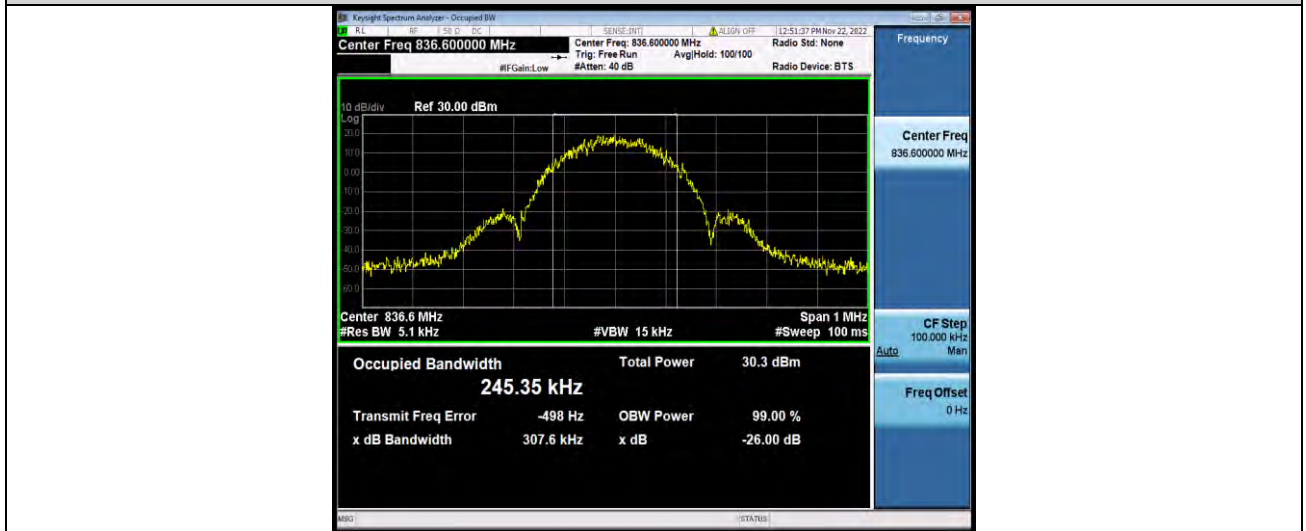
Test Report No.: W7L-P22110001RF04



EGPRS850-128



EGPRS850-190

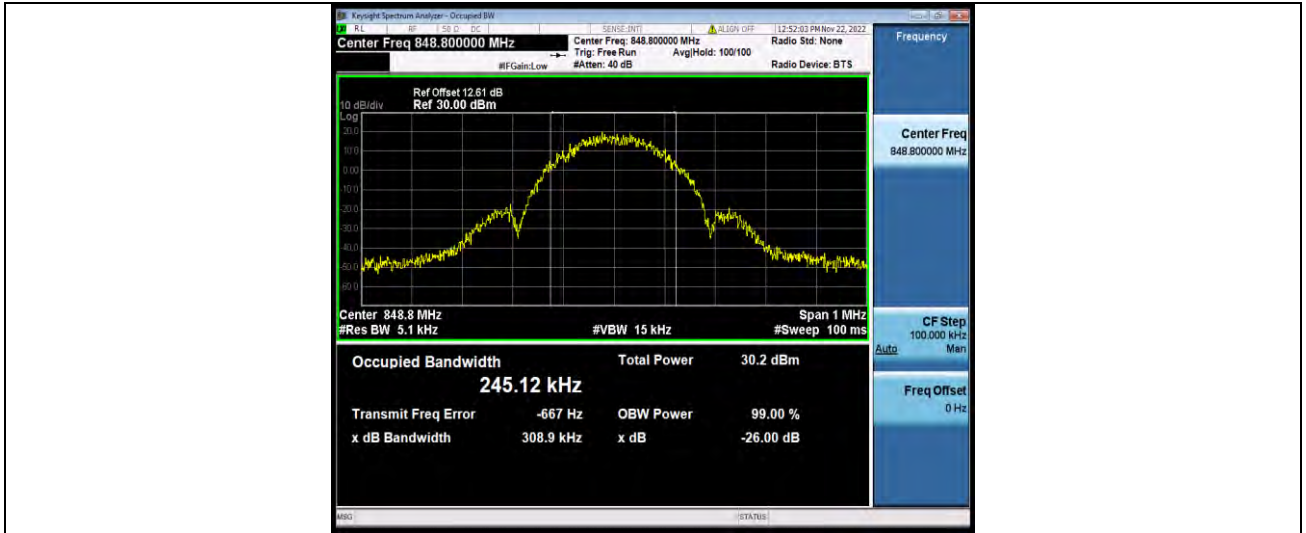


EGPRS850-251



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## BAND EDGE

### Test Result

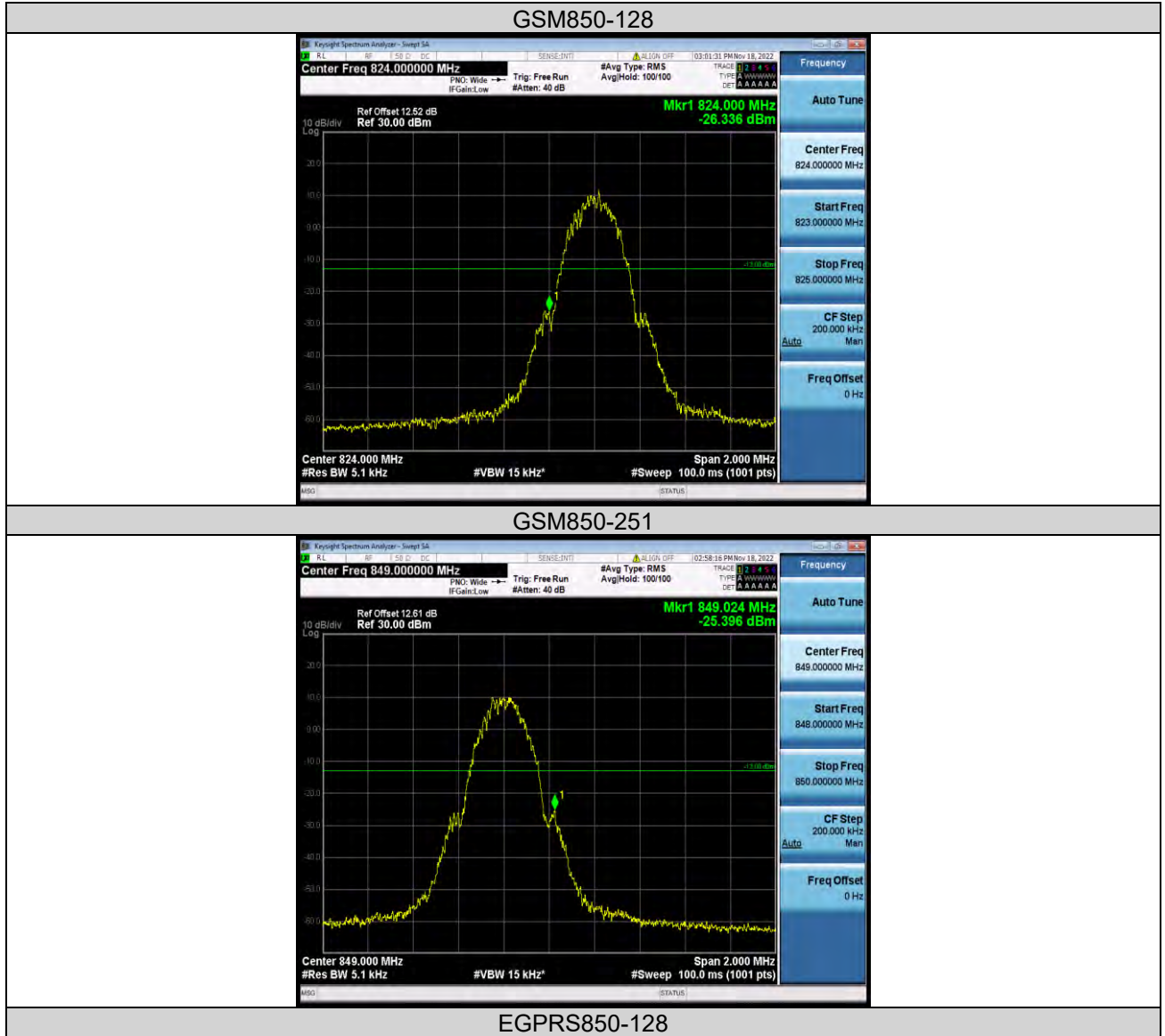
Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.98	-26.34	-13	PASS
GSM850	251	849.01	-25.40	-13	PASS
EGPRS850	128	823.97	-22.88	-13	PASS
EGPRS850	251	849.02	-24.79	-13	PASS



BUREAU VERITAS

Test Report No.: W7L-P22110001RF04

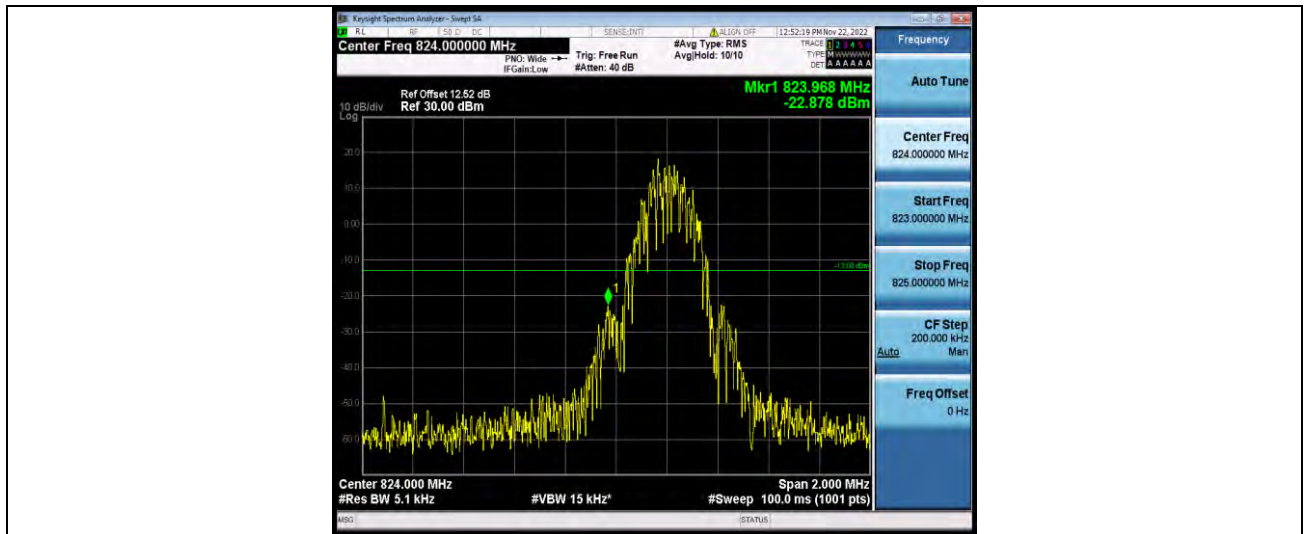
### Test Graphs



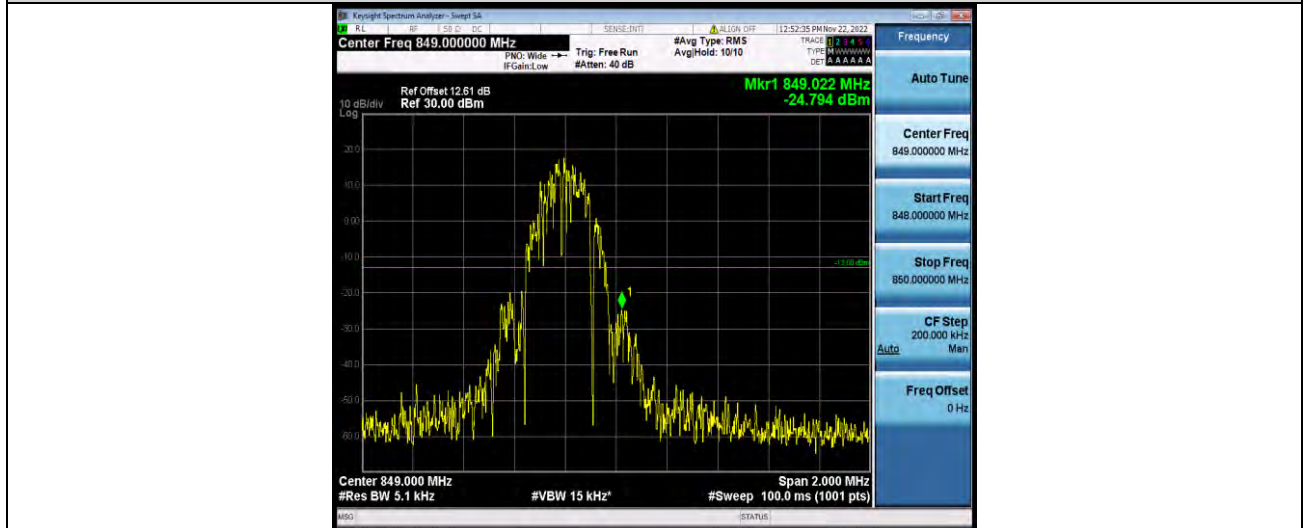


BUREAU VERITAS

Test Report No.: W7L-P22110001RF04



### EGPRS850-251





## CONDUCTED SPURIOUS EMISSION

### Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	128	30~1000MHz	981.28	-49.94	-13	PASS
GSM850	128	1000~10000MHz	2546.5	-30.52	-13	PASS
GSM850	190	30~1000MHz	945.68	-49.64	-13	PASS
GSM850	190	1000~10000MHz	2546.5	-30.56	-13	PASS
GSM850	251	30~1000MHz	738.75	-50.48	-13	PASS
GSM850	251	1000~10000MHz	2546.2	-30.39	-13	PASS
EGPRS850	128	30~1000MHz	934.53	-50.34	-13	PASS
EGPRS850	128	1000~10000MHz	3836.8	-31.94	-13	PASS
EGPRS850	190	30~1000MHz	963.63	-50.70	-13	PASS
EGPRS850	190	1000~10000MHz	3759.1	-32.14	-13	PASS
EGPRS850	251	30~1000MHz	962.72	-49.82	-13	PASS
EGPRS850	251	1000~10000MHz	3914.2	-32.66	-13	PASS

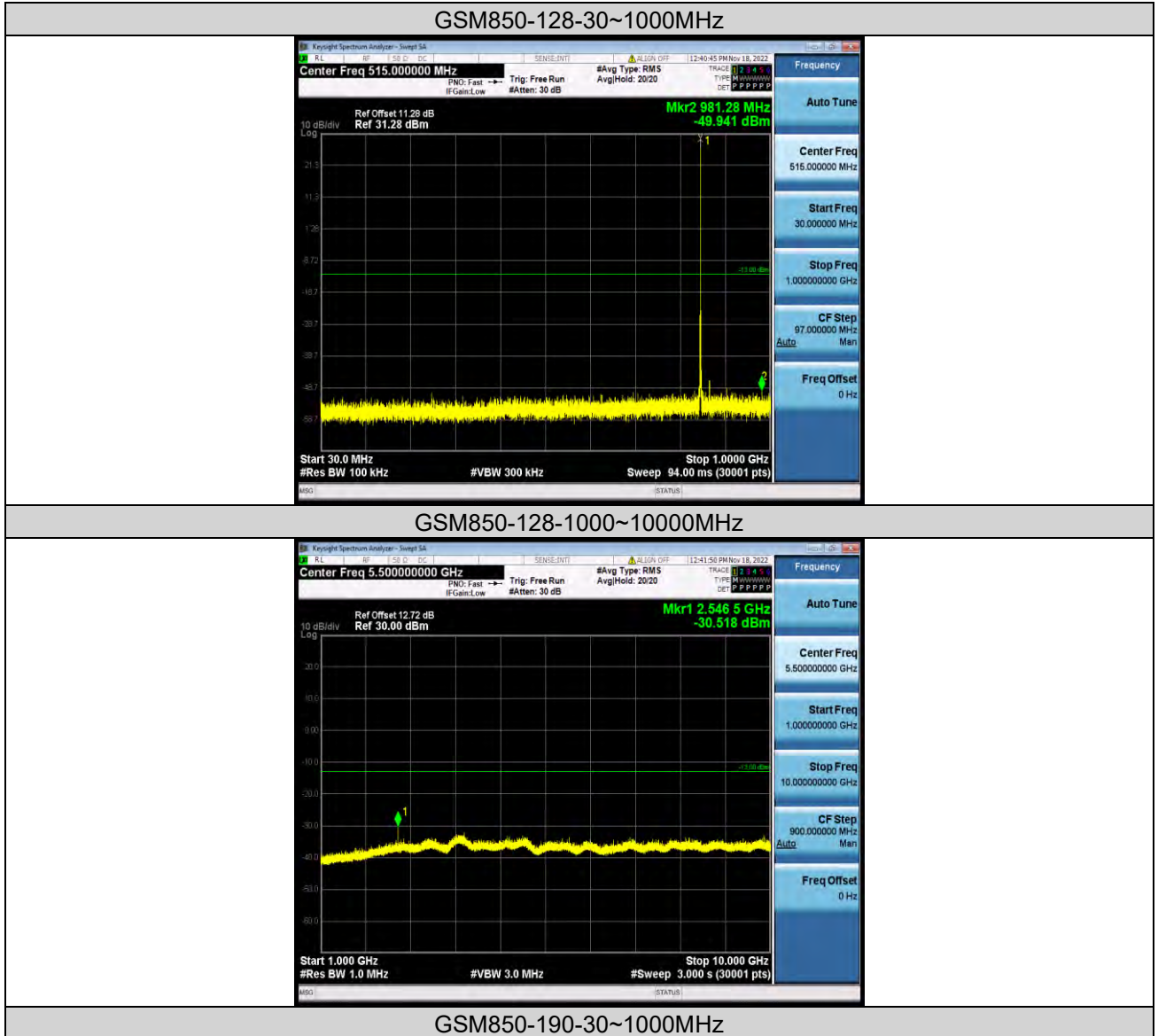




BUREAU VERITAS

Test Report No.: W7L-P22110001RF04

### Test Graphs

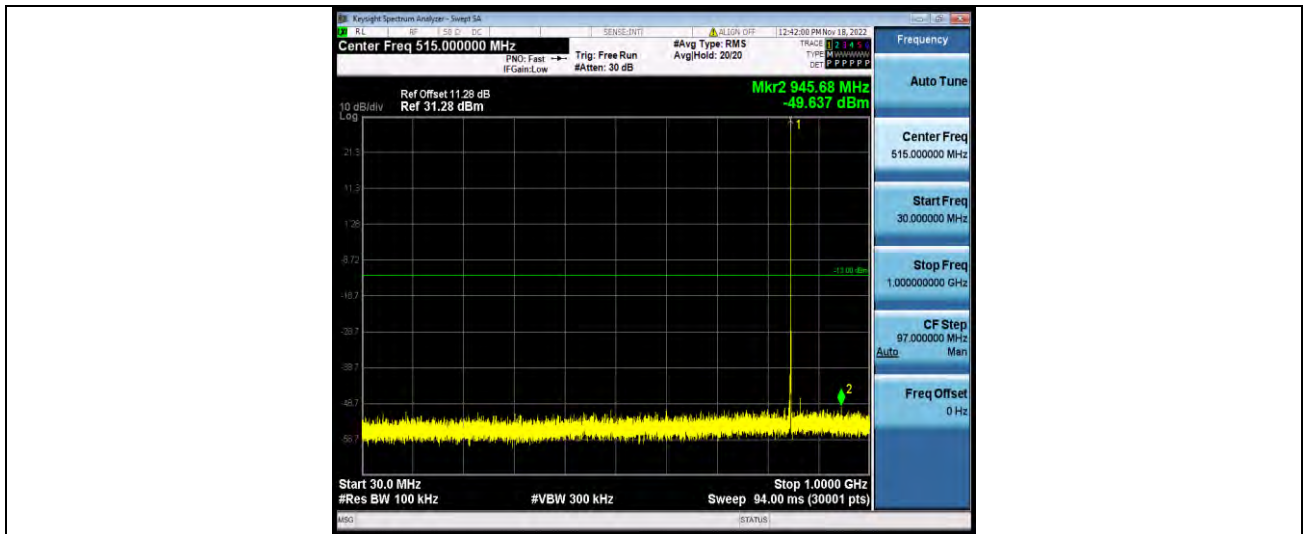






BUREAU VERITAS

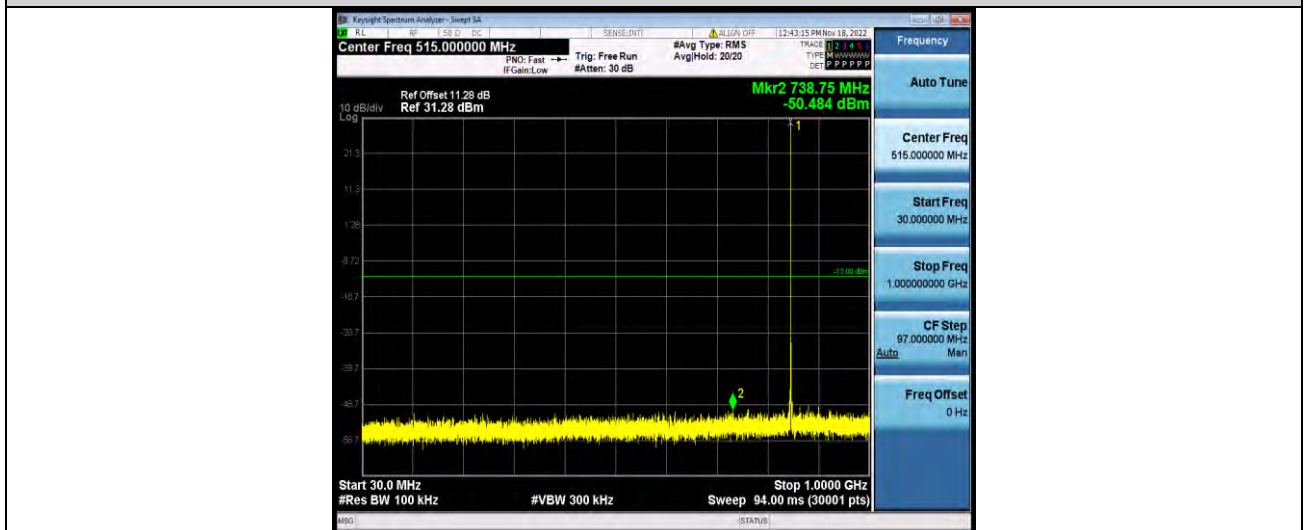
Test Report No.: W7L-P22110001RF04



### GSM850-190-1000~10000MHz



### GSM850-251-30~1000MHz



### GSM850-251-1000~10000MHz

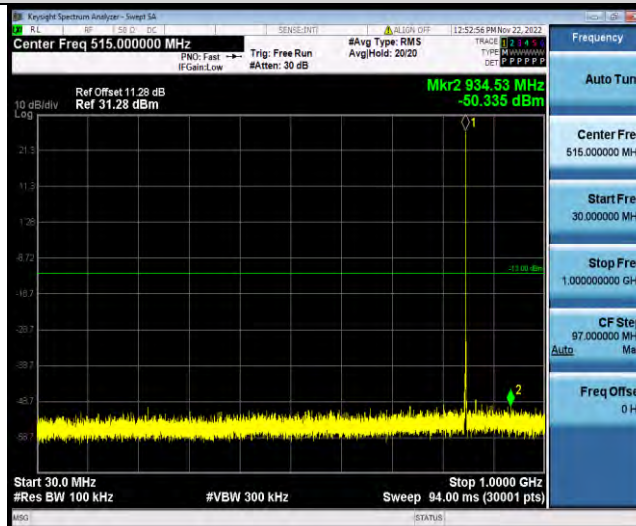


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Test Report No.: W7L-P22110001RF04



EGPRS850-128-30~1000MHz



EGPRS850-128-1000~10000MHz

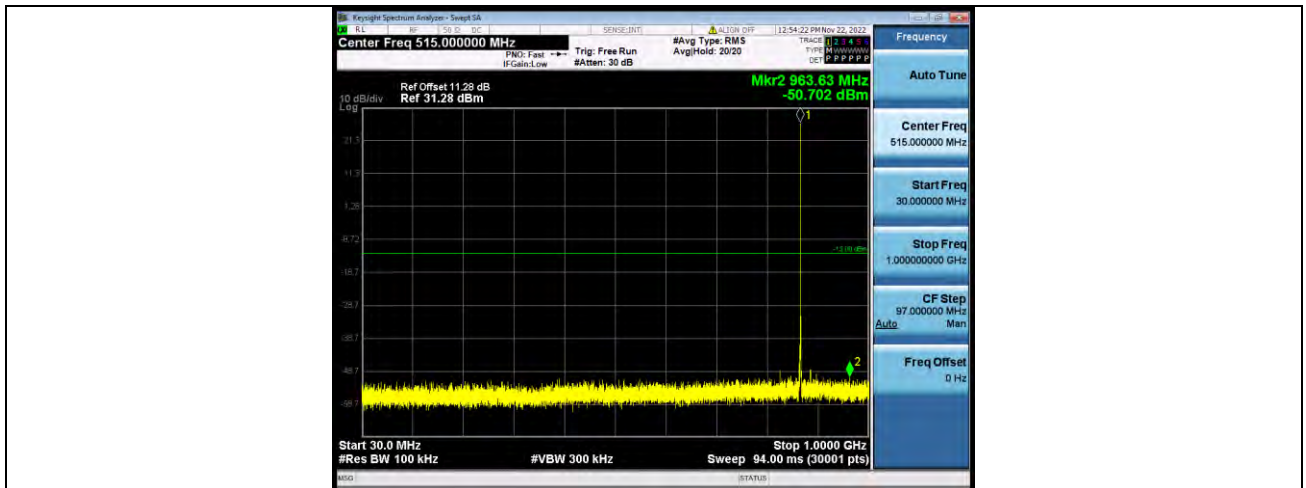


EGPRS850-190-30~1000MHz



BUREAU VERITAS

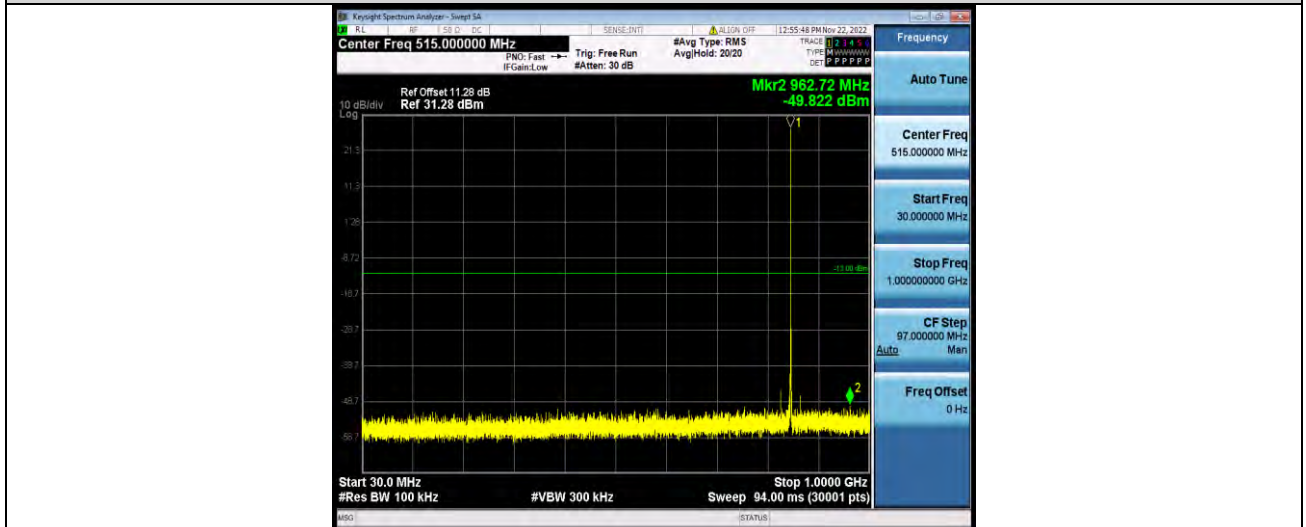
Test Report No.: W7L-P22110001RF04



EGPRS850-190-1000~10000MHz



EGPRS850-251-30~1000MHz



EGPRS850-251-1000~10000MHz



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**Test Report No.: W7L-P22110001RF04**



## FREQUENCY STABILITY

### Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	31.64	0.038389	±2.5	PASS
GSM850	128	VN	NT	34.61	0.041992	±2.5	PASS
GSM850	128	VH	NT	29.80	0.036156	±2.5	PASS
GSM850	190	VL	NT	35.77	0.042756	±2.5	PASS
GSM850	190	VN	NT	35.84	0.042840	±2.5	PASS
GSM850	190	VH	NT	32.90	0.039326	±2.5	PASS
GSM850	251	VL	NT	30.64	0.036098	±2.5	PASS
GSM850	251	VN	NT	32.74	0.038572	±2.5	PASS
GSM850	251	VH	NT	31.67	0.037311	±2.5	PASS
EGPRS850	128	VL	NT	45.65	0.055387	±2.5	PASS
EGPRS850	128	VN	NT	47.56	0.057704	±2.5	PASS
EGPRS850	128	VH	NT	43.52	0.052803	±2.5	PASS
EGPRS850	190	VL	NT	45.94	0.054913	±2.5	PASS
EGPRS850	190	VN	NT	44.49	0.053180	±2.5	PASS
EGPRS850	190	VH	NT	46.85	0.056000	±2.5	PASS
EGPRS850	251	VL	NT	43.00	0.050660	±2.5	PASS
EGPRS850	251	VN	NT	44.55	0.052486	±2.5	PASS





0							
EGPRS85 0	251	VH	NT	46.56	0.054854	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	28.86	0.035016	±2.5	PASS
GSM850	128	NV	-20	27.99	0.033960	±2.5	PASS
GSM850	128	NV	-10	25.86	0.031376	±2.5	PASS
GSM850	128	NV	0	29.80	0.036156	±2.5	PASS
GSM850	128	NV	10	29.25	0.035489	±2.5	PASS
GSM850	128	NV	20	29.61	0.035926	±2.5	PASS
GSM850	128	NV	30	25.38	0.030793	±2.5	PASS
GSM850	128	NV	40	27.54	0.033414	±2.5	PASS
GSM850	128	NV	50	29.54	0.035841	±2.5	PASS
GSM850	190	NV	-30	33.45	0.039983	±2.5	PASS
GSM850	190	NV	-20	33.16	0.039637	±2.5	PASS
GSM850	190	NV	-10	33.67	0.040246	±2.5	PASS
GSM850	190	NV	0	34.84	0.041645	±2.5	PASS
GSM850	190	NV	10	41.33	0.049402	±2.5	PASS
GSM850	190	NV	20	33.25	0.039744	±2.5	PASS
GSM850	190	NV	30	34.38	0.041095	±2.5	PASS
GSM850	190	NV	40	31.64	0.037820	±2.5	PASS
GSM850	190	NV	50	37.58	0.044920	±2.5	PASS
GSM850	251	NV	-30	30.93	0.036440	±2.5	PASS
GSM850	251	NV	-20	30.99	0.036510	±2.5	PASS
GSM850	251	NV	-10	32.83	0.038678	±2.5	PASS
GSM850	251	NV	0	32.35	0.038113	±2.5	PASS
GSM850	251	NV	10	28.09	0.033094	±2.5	PASS
GSM850	251	NV	20	29.90	0.035226	±2.5	PASS
GSM850	251	NV	30	31.38	0.036970	±2.5	PASS
GSM850	251	NV	40	31.45	0.037052	±2.5	PASS
GSM850	251	NV	50	29.35	0.034578	±2.5	PASS
EGPRS85 0	128	NV	-30	45.56	0.055278	±2.5	PASS
EGPRS85 0	128	NV	-20	42.88	0.052026	±2.5	PASS
EGPRS85 0	128	NV	-10	45.46	0.055157	±2.5	PASS
EGPRS85 0	128	NV	0	45.43	0.055120	±2.5	PASS
EGPRS85 0	128	NV	10	45.75	0.055508	±2.5	PASS
EGPRS85 0	128	NV	20	43.36	0.052609	±2.5	PASS
EGPRS85 0	128	NV	30	42.46	0.051517	±2.5	PASS
EGPRS85 0	128	NV	40	42.94	0.052099	±2.5	PASS



EGPRS85 0	128	NV	50	44.01	0.053397	±2.5	PASS
EGPRS85 0	190	NV	-30	44.81	0.053562	±2.5	PASS
EGPRS85 0	190	NV	-20	40.49	0.048398	±2.5	PASS
EGPRS85 0	190	NV	-10	41.07	0.049092	±2.5	PASS
EGPRS85 0	190	NV	0	40.81	0.048781	±2.5	PASS
EGPRS85 0	190	NV	10	42.88	0.051255	±2.5	PASS
EGPRS85 0	190	NV	20	41.16	0.049199	±2.5	PASS
EGPRS85 0	190	NV	30	42.59	0.050908	±2.5	PASS
EGPRS85 0	190	NV	40	42.62	0.050944	±2.5	PASS
EGPRS85 0	190	NV	50	39.49	0.047203	±2.5	PASS
EGPRS85 0	251	NV	-30	46.59	0.054889	±2.5	PASS
EGPRS85 0	251	NV	-20	45.07	0.053098	±2.5	PASS
EGPRS85 0	251	NV	-10	41.75	0.049187	±2.5	PASS
EGPRS85 0	251	NV	0	44.04	0.051885	±2.5	PASS
EGPRS85 0	251	NV	10	42.71	0.050318	±2.5	PASS
EGPRS85 0	251	NV	20	44.23	0.052109	±2.5	PASS
EGPRS85 0	251	NV	30	41.10	0.048421	±2.5	PASS
EGPRS85 0	251	NV	40	44.17	0.052038	±2.5	PASS
EGPRS85 0	251	NV	50	43.04	0.050707	±2.5	PASS



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Test Report No.: W7L-P22110001RF04

## WCDMA BAND5

### PEAK-TO-AVERAGE RATIO

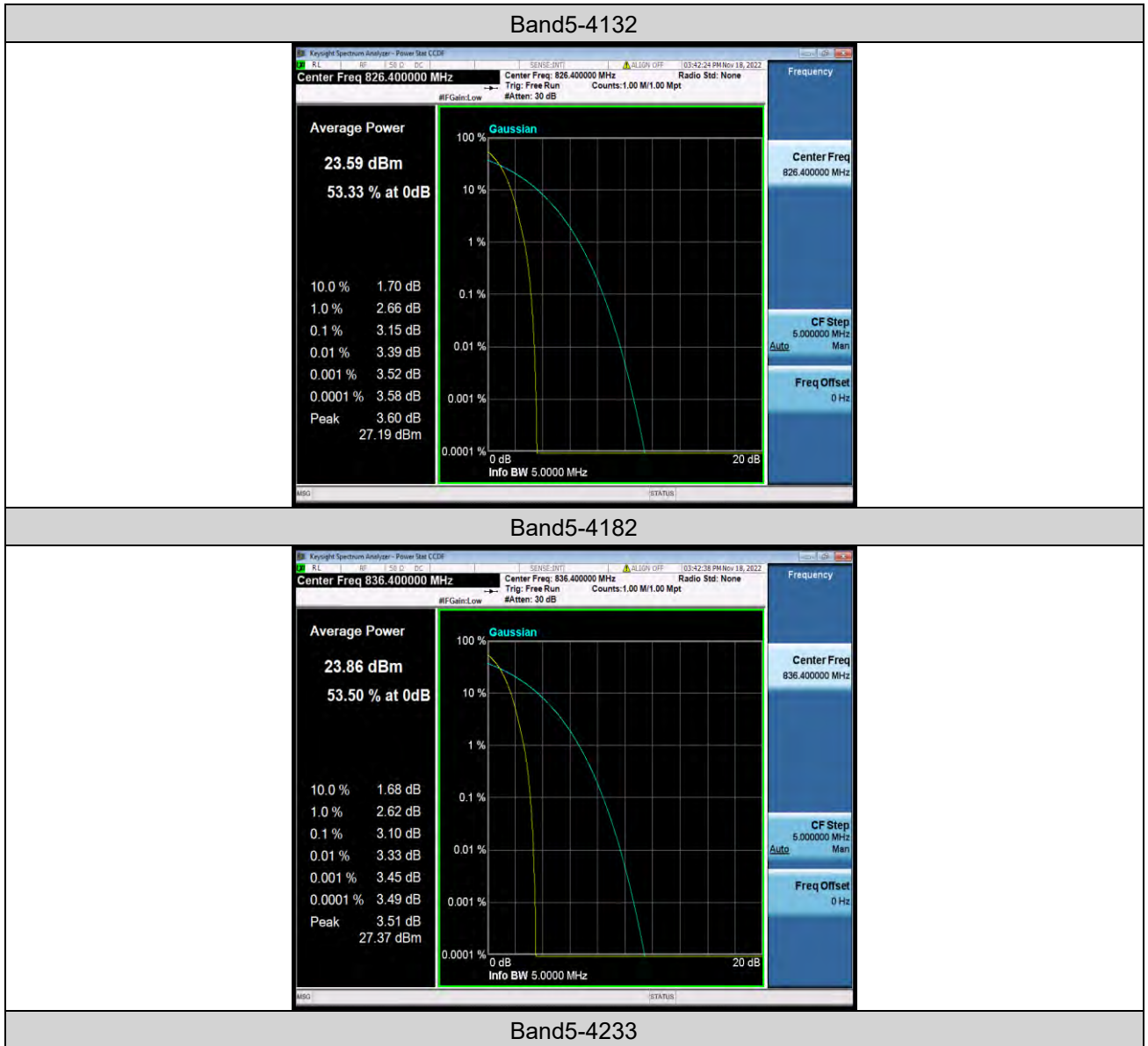
#### Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	3.15	13	PASS
Band5	4182	3.10	13	PASS
Band5	4233	3.05	13	PASS





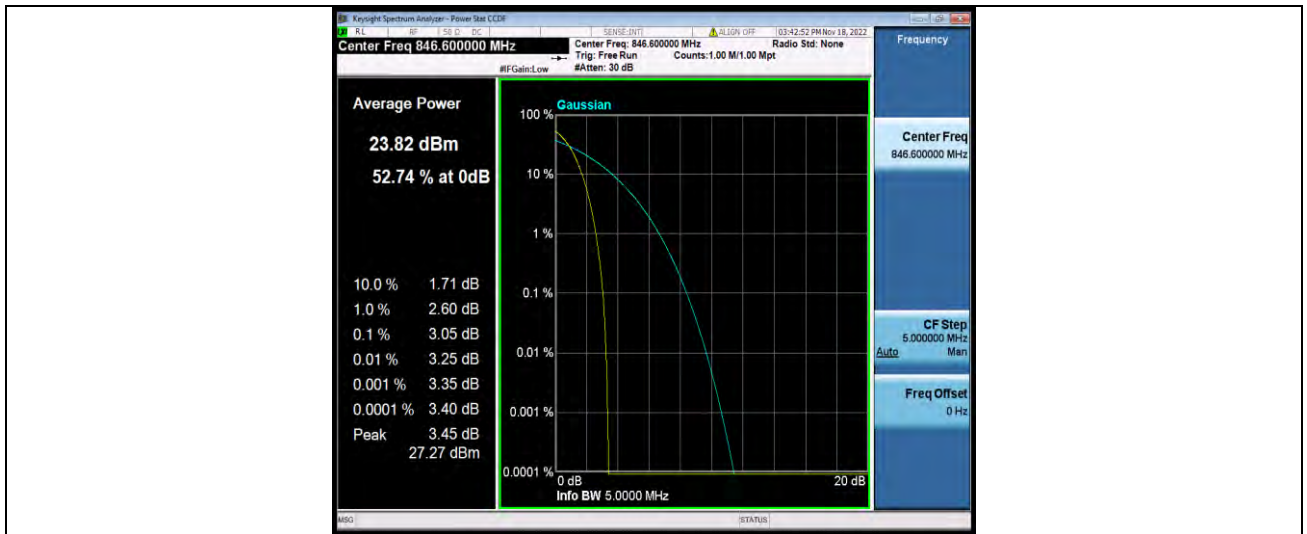
### Test Graphs





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**Test Report No.: W7L-P22110001RF04**





## 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.1489	4.719	---	PASS
Band5	4182	4.1379	4.720	---	PASS
Band5	4233	4.1367	4.717	---	PASS



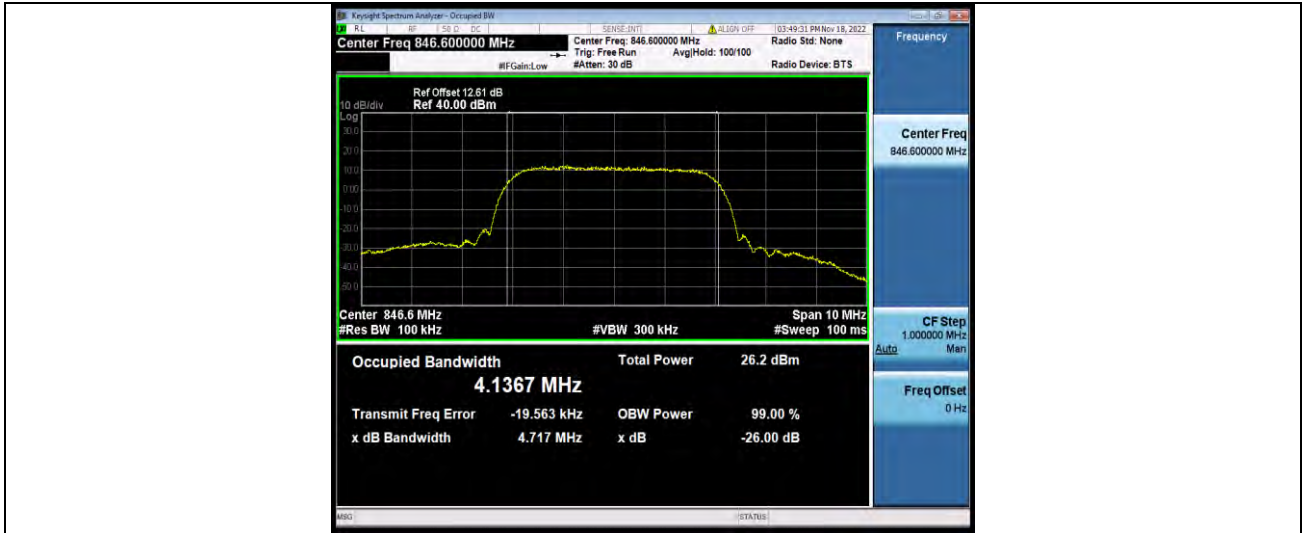
### Test Graphs





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**Test Report No.: W7L-P22110001RF04**





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Test Report No.: W7L-P22110001RF04

## BAND EDGE

### Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.84	-25.40	-13	PASS
Band5	4233	849.00	-27.49	-13	PASS



BUREAU VERITAS

Test Report No.: W7L-P22110001RF04

### Test Graphs







## CONDUCTED SPURIOUS EMISSION

### Test Result

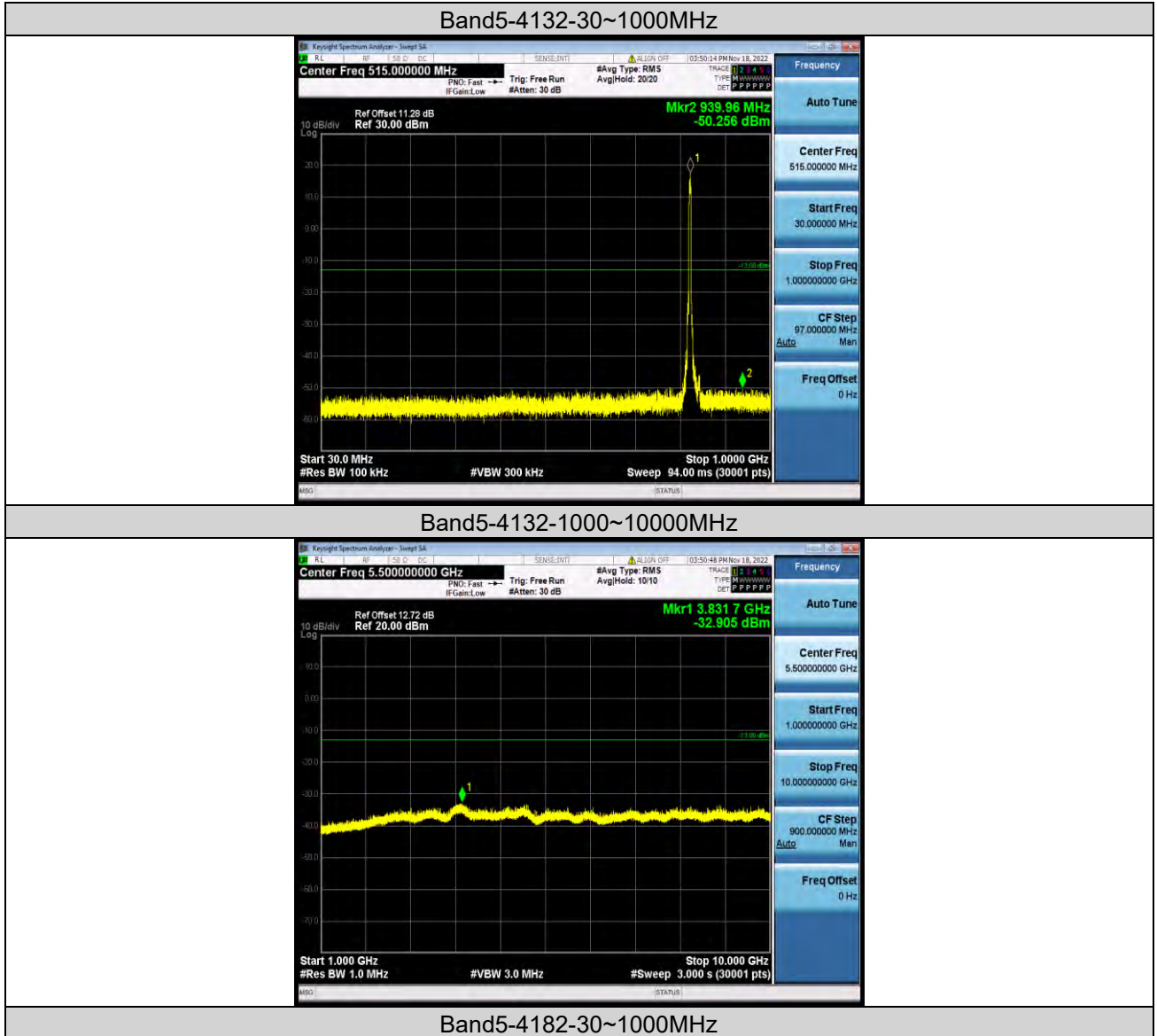
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band5	4132	30~1000MHz	939.96	-50.26	-13	PASS
Band5	4132	1000~10000MHz	3831.7	-32.91	-13	PASS
Band5	4182	30~1000MHz	696.16	-49.72	-13	PASS
Band5	4182	1000~10000MHz	3908.2	-32.72	-13	PASS
Band5	4233	30~1000MHz	441.64	-49.93	-13	PASS
Band5	4233	1000~10000MHz	3762.7	-32.13	-13	PASS



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Test Report No.: W7L-P22110001RF04

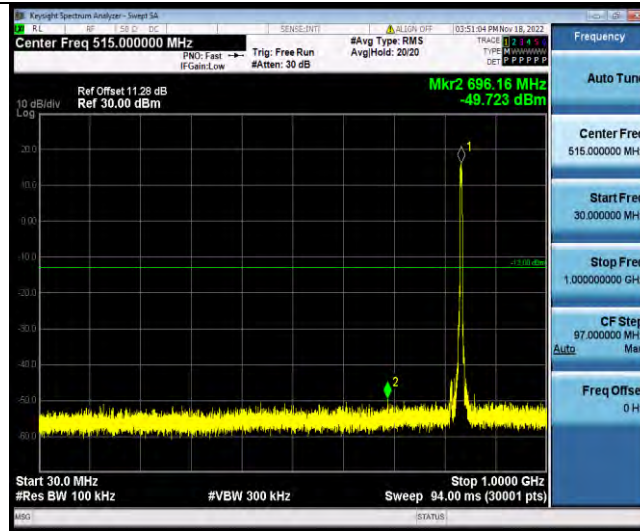
### Test Graphs





BUREAU VERITAS

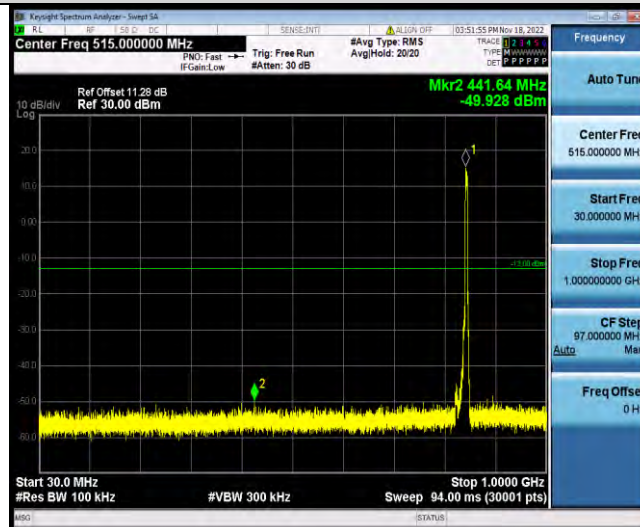
Test Report No.: W7L-P22110001RF04



Band5-4182-1000~10000MHz



Band5-4233-30~1000MHz

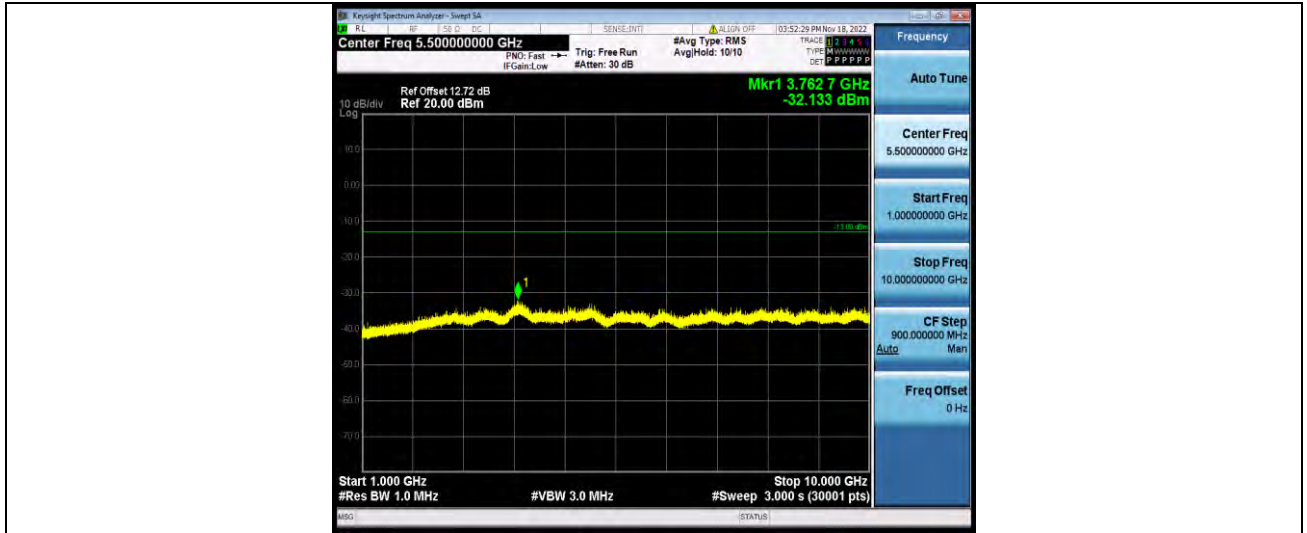


Band5-4233-1000~10000MHz



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VERITAS**

**Test Report No.: W7L-P22110001RF04**



## FREQUENCY STABILITY

### Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	VL	NT	0.59	0.000714	±2.5	PASS
Band5	4132	VN	NT	0.23	0.000278	±2.5	PASS
Band5	4132	VH	NT	0.39	0.000472	±2.5	PASS
Band5	4182	VL	NT	0.35	0.000418	±2.5	PASS
Band5	4182	VN	NT	0.14	0.000167	±2.5	PASS
Band5	4182	VH	NT	-0.18	-0.000215	±2.5	PASS
Band5	4233	VL	NT	-1.97	-0.002327	±2.5	PASS
Band5	4233	VN	NT	-1.77	-0.002091	±2.5	PASS
Band5	4233	VH	NT	-1.62	-0.001914	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4132	NV	-30	1.02	0.001234	±2.5	PASS
Band5	4132	NV	-20	1.05	0.001271	±2.5	PASS
Band5	4132	NV	0	0.64	0.000774	±2.5	PASS
Band5	4132	NV	10	0.78	0.000944	±2.5	PASS
Band5	4132	NV	20	0.19	0.000230	±2.5	PASS
Band5	4132	NV	30	0.70	0.000847	±2.5	PASS
Band5	4132	NV	40	0.47	0.000569	±2.5	PASS
Band5	4132	NV	50	0.63	0.000762	±2.5	PASS
Band5	4182	NV	-30	-0.06	-0.000072	±2.5	PASS
Band5	4182	NV	-20	-0.26	-0.000311	±2.5	PASS
Band5	4182	NV	0	-0.62	-0.000741	±2.5	PASS
Band5	4182	NV	10	-0.64	-0.000765	±2.5	PASS



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**VERITAS**

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Band5	4182	NV	20	-0.21	-0.000251	±2.5	PASS
Band5	4182	NV	30	-0.54	-0.000646	±2.5	PASS
Band5	4182	NV	40	-0.41	-0.000490	±2.5	PASS
Band5	4182	NV	50	-0.51	-0.000610	±2.5	PASS
Band5	4233	NV	-30	-1.85	-0.002185	±2.5	PASS
Band5	4233	NV	-20	-2.17	-0.002563	±2.5	PASS
Band5	4233	NV	0	-1.92	-0.002268	±2.5	PASS
Band5	4233	NV	10	-1.85	-0.002185	±2.5	PASS
Band5	4233	NV	20	-2.02	-0.002386	±2.5	PASS
Band5	4233	NV	30	-1.70	-0.002008	±2.5	PASS
Band5	4233	NV	40	-1.97	-0.002327	±2.5	PASS
Band5	4233	NV	50	-1.84	-0.002173	±2.5	PASS



### LTE BAND26 (INDCLUDING LTE BAND5)

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

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	1.4MHz	QPSK	26797	1RB#0	4.15	13	PASS
Band26	1.4MHz	QPSK	26797	6RB#0	4.77	13	PASS
Band26	1.4MHz	QPSK	26915	1RB#0	4.36	13	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	4.68	13	PASS
Band26	1.4MHz	QPSK	27033	1RB#0	3.75	13	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	4.28	13	PASS
Band26	1.4MHz	16QAM	26797	1RB#0	4.96	13	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	5.61	13	PASS
Band26	1.4MHz	16QAM	26915	1RB#0	5.23	13	PASS
Band26	1.4MHz	16QAM	26915	6RB#0	5.50	13	PASS
Band26	1.4MHz	16QAM	27033	1RB#0	4.45	13	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	5.21	13	PASS
Band26	1.4MHz	64QAM	26797	1RB#0	5.86	13	PASS
Band26	1.4MHz	64QAM	26797	6RB#0	6.25	13	PASS
Band26	1.4MHz	64QAM	26915	1RB#0	6.09	13	PASS
Band26	1.4MHz	64QAM	26915	6RB#0	6.17	13	PASS
Band26	1.4MHz	64QAM	27033	1RB#0	5.61	13	PASS
Band26	1.4MHz	64QAM	27033	6RB#0	6.01	13	PASS
Band26	3MHz	QPSK	26805	1RB#0	4.13	13	PASS
Band26	3MHz	QPSK	26805	15RB#0	4.85	13	PASS
Band26	3MHz	QPSK	26915	1RB#0	4.32	13	PASS
Band26	3MHz	QPSK	26915	15RB#0	4.67	13	PASS
Band26	3MHz	QPSK	27025	1RB#0	4.14	13	PASS
Band26	3MHz	QPSK	27025	15RB#0	4.63	13	PASS
Band26	3MHz	16QAM	26805	1RB#0	4.96	13	PASS
Band26	3MHz	16QAM	26805	15RB#0	5.75	13	PASS
Band26	3MHz	16QAM	26915	1RB#0	5.12	13	PASS
Band26	3MHz	16QAM	26915	15RB#0	5.49	13	PASS
Band26	3MHz	16QAM	27025	1RB#0	5.01	13	PASS
Band26	3MHz	16QAM	27025	15RB#0	5.51	13	PASS
Band26	3MHz	64QAM	26805	1RB#0	5.93	13	PASS
Band26	3MHz	64QAM	26805	15RB#0	6.34	13	PASS
Band26	3MHz	64QAM	26915	1RB#0	6.07	13	PASS
Band26	3MHz	64QAM	26915	15RB#0	6.07	13	PASS
Band26	3MHz	64QAM	27025	1RB#0	5.73	13	PASS
Band26	3MHz	64QAM	27025	15RB#0	6.02	13	PASS
Band26	5MHz	QPSK	26815	1RB#0	4.09	13	PASS
Band26	5MHz	QPSK	26815	25RB#0	4.83	13	PASS
Band26	5MHz	QPSK	26915	1RB#0	4.34	13	PASS
Band26	5MHz	QPSK	26915	25RB#0	4.87	13	PASS
Band26	5MHz	QPSK	27015	1RB#0	4.25	13	PASS





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VERITAS

Test Report No.: W7L-P22110001RF04

Band26	5MHz	QPSK	27015	25RB#0	4.73	13	PASS
Band26	5MHz	16QAM	26815	1RB#0	4.83	13	PASS
Band26	5MHz	16QAM	26815	25RB#0	5.64	13	PASS
Band26	5MHz	16QAM	26915	1RB#0	5.10	13	PASS
Band26	5MHz	16QAM	26915	25RB#0	5.67	13	PASS
Band26	5MHz	16QAM	27015	1RB#0	5.10	13	PASS
Band26	5MHz	16QAM	27015	25RB#0	5.52	13	PASS
Band26	5MHz	64QAM	26815	1RB#0	5.82	13	PASS
Band26	5MHz	64QAM	26815	25RB#0	6.22	13	PASS
Band26	5MHz	64QAM	26915	1RB#0	6.10	13	PASS
Band26	5MHz	64QAM	26915	25RB#0	6.02	13	PASS
Band26	5MHz	64QAM	27015	1RB#0	5.92	13	PASS
Band26	5MHz	64QAM	27015	25RB#0	6.08	13	PASS
Band26	10MHz	QPSK	26840	1RB#0	4.08	13	PASS
Band26	10MHz	QPSK	26840	50RB#0	4.89	13	PASS
Band26	10MHz	QPSK	26915	1RB#0	4.34	13	PASS
Band26	10MHz	QPSK	26915	50RB#0	4.90	13	PASS
Band26	10MHz	QPSK	26990	1RB#0	4.24	13	PASS
Band26	10MHz	QPSK	26990	50RB#0	4.87	13	PASS
Band26	10MHz	16QAM	26840	1RB#0	4.94	13	PASS
Band26	10MHz	16QAM	26840	50RB#0	5.70	13	PASS
Band26	10MHz	16QAM	26915	1RB#0	5.26	13	PASS
Band26	10MHz	16QAM	26915	50RB#0	5.72	13	PASS
Band26	10MHz	16QAM	26990	1RB#0	5.05	13	PASS
Band26	10MHz	16QAM	26990	50RB#0	5.68	13	PASS
Band26	10MHz	64QAM	26840	1RB#0	5.90	13	PASS
Band26	10MHz	64QAM	26840	50RB#0	6.23	13	PASS
Band26	10MHz	64QAM	26915	1RB#0	5.97	13	PASS
Band26	10MHz	64QAM	26915	50RB#0	6.25	13	PASS
Band26	10MHz	64QAM	26990	1RB#0	5.87	13	PASS
Band26	10MHz	64QAM	26990	50RB#0	6.16	13	PASS
Band26	15MHz	QPSK	26865	1RB#0	4.26	13	PASS
Band26	15MHz	QPSK	26865	75RB#0	5.07	13	PASS
Band26	15MHz	QPSK	26915	1RB#0	4.35	13	PASS
Band26	15MHz	QPSK	26915	75RB#0	5.04	13	PASS
Band26	15MHz	QPSK	26965	1RB#0	4.28	13	PASS
Band26	15MHz	QPSK	26965	75RB#0	5.22	13	PASS
Band26	15MHz	16QAM	26865	1RB#0	4.98	13	PASS
Band26	15MHz	16QAM	26865	75RB#0	5.78	13	PASS
Band26	15MHz	16QAM	26915	1RB#0	5.35	13	PASS
Band26	15MHz	16QAM	26915	75RB#0	5.79	13	PASS
Band26	15MHz	16QAM	26965	1RB#0	4.99	13	PASS
Band26	15MHz	16QAM	26965	75RB#0	5.82	13	PASS
Band26	15MHz	64QAM	26865	1RB#0	5.88	13	PASS
Band26	15MHz	64QAM	26865	75RB#0	6.26	13	PASS
Band26	15MHz	64QAM	26915	1RB#0	6.01	13	PASS
Band26	15MHz	64QAM	26915	75RB#0	6.21	13	PASS
Band26	15MHz	64QAM	26965	1RB#0	5.92	13	PASS
Band26	15MHz	64QAM	26965	75RB#0	6.24	13	PASS