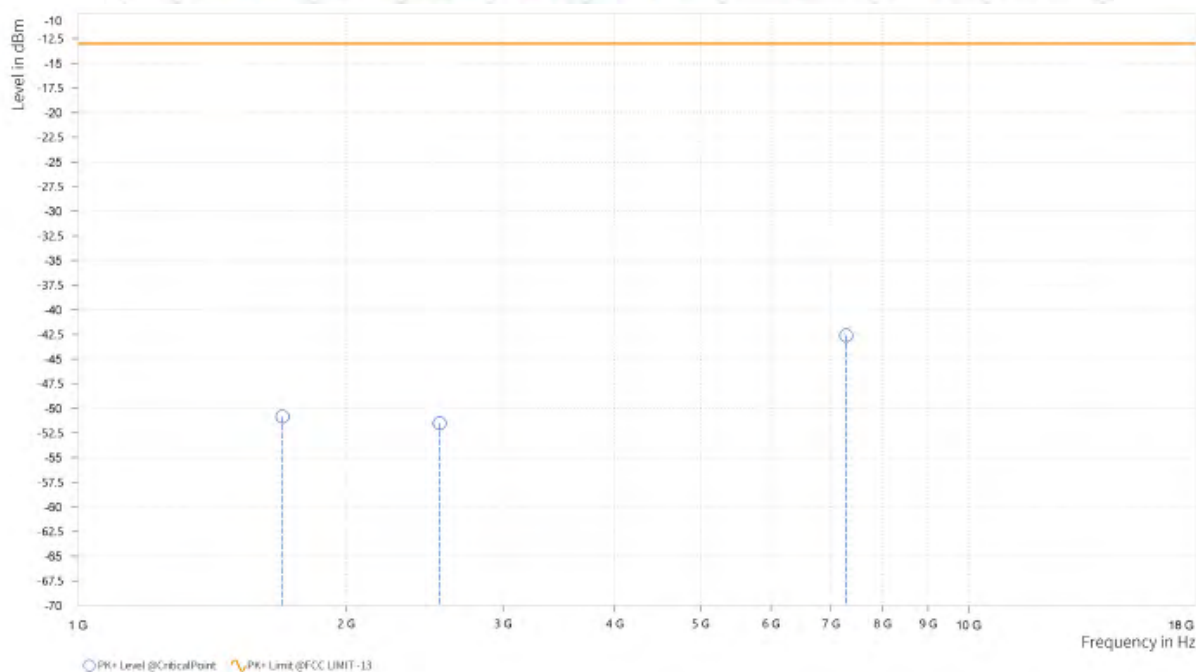


CH 251:

MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,697.000	-50.83	-13.00	37.83	14.68	H	1	2
3	2,546.500	-51.51	-13.00	38.51	21.05	H	1	2
5	7,285.500	-42.61	-13.00	29.61	33.87	H	87.8	2



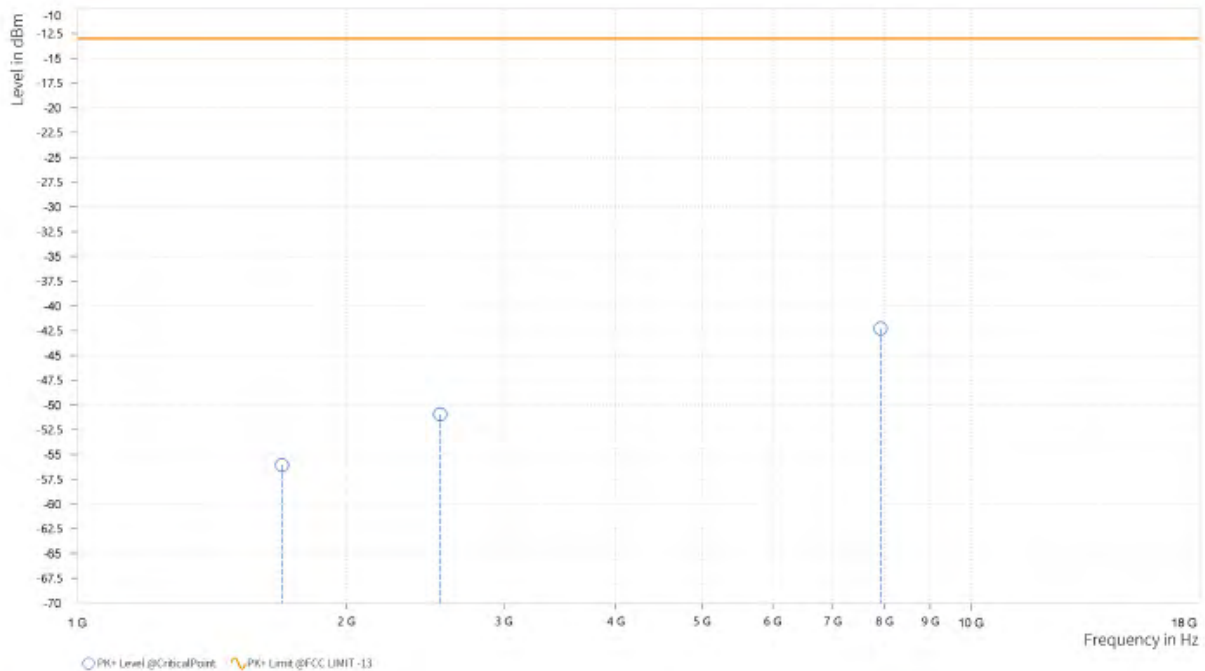


BUREAU
VERITAS

Test Report No.: W7L-P23030005RF04

MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,694.500	-56.07	-13.00	43.07	15.08	V	359	2
3	2,547.000	-50.95	-13.00	37.95	21.06	V	359	1
5	7,922.500	-42.27	-13.00	29.27	34.29	V	1	1

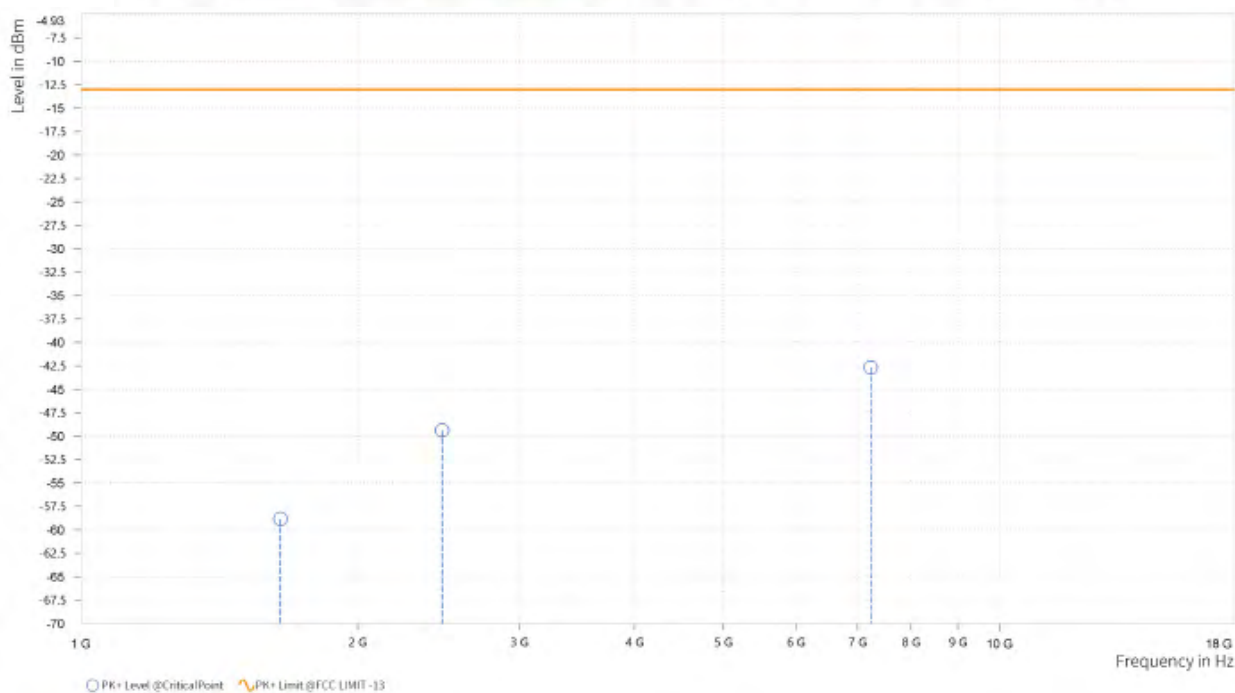


EDGE 850(Ant0):

CH 128:

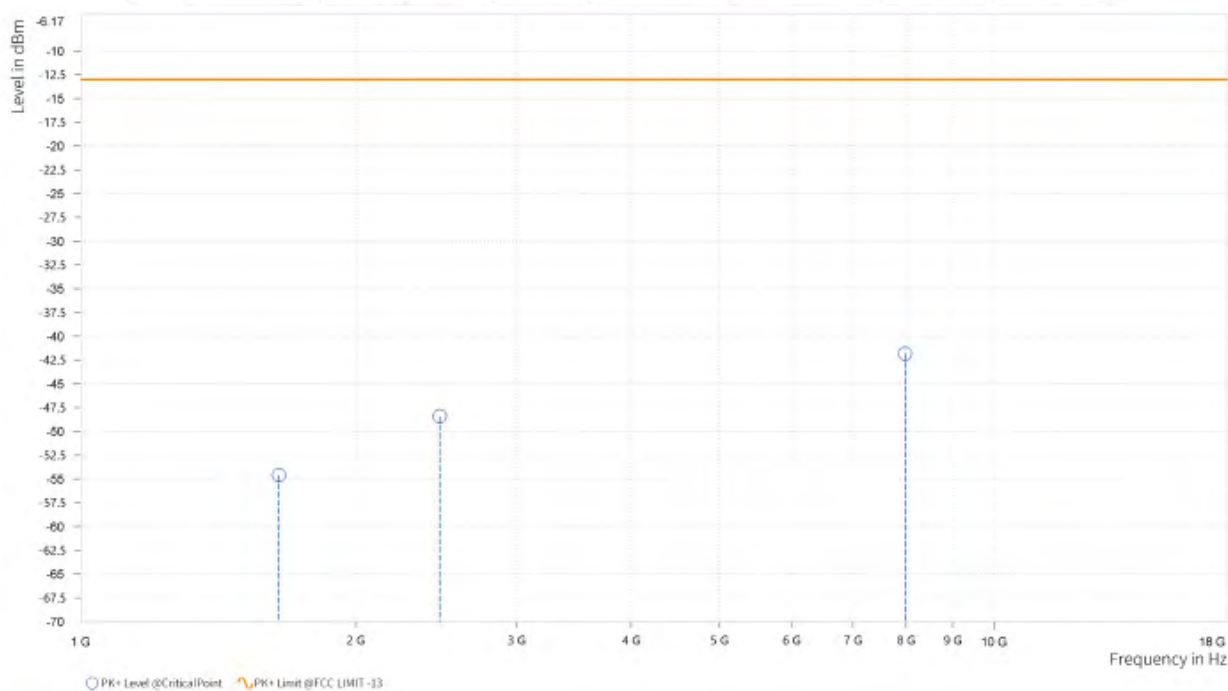
MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.500	-58.84	-13.00	45.84	13.39	H	0.9	2
3	2,472.000	-49.39	-13.00	36.39	20.77	H	359	1
5	7,236.500	-42.67	-13.00	29.67	34.18	H	0.9	2



MODE	TX channel 128	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

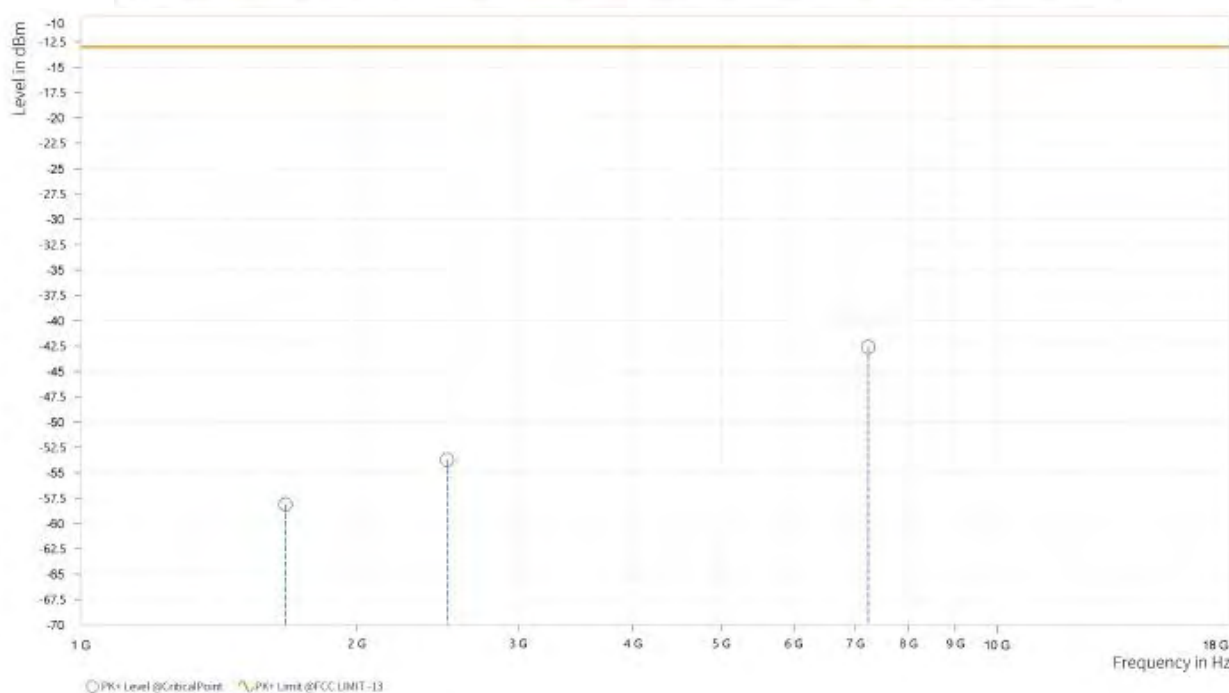
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.000	-54.60	-13.00	41.60	13.32	V	359	2
3	2,472.000	-48.40	-13.00	35.40	21.36	V	125	1
5	7,988.500	-41.81	-13.00	28.81	34.63	V	1	1



CH 189:

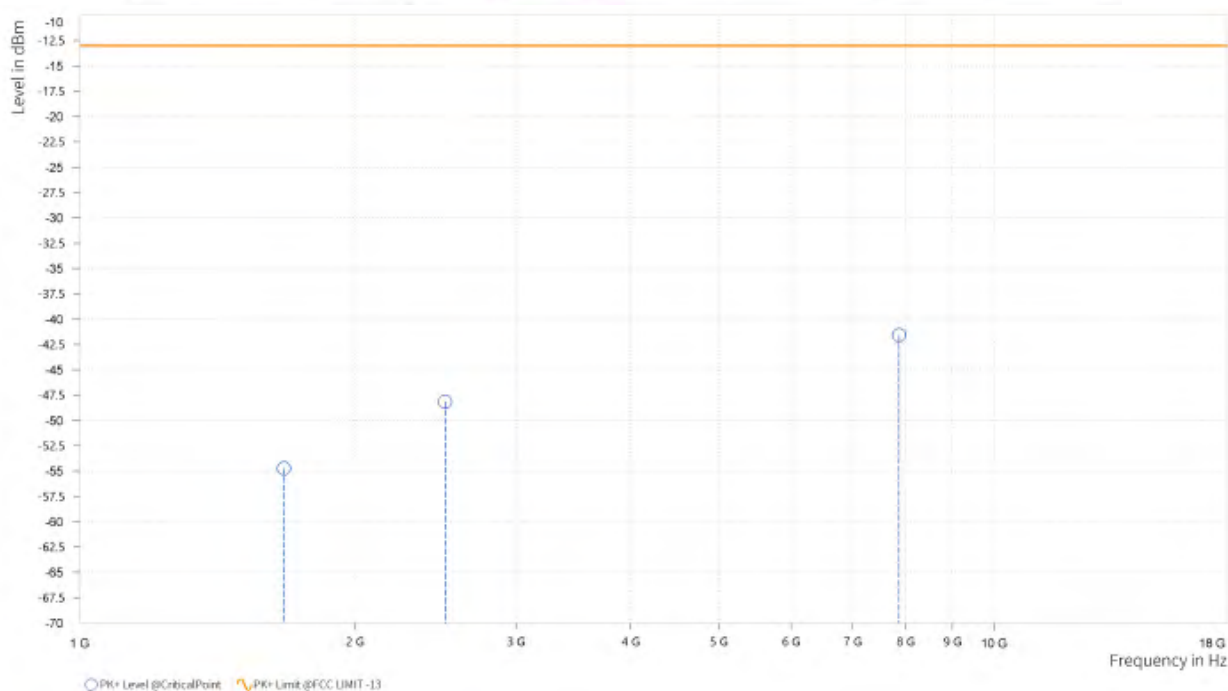
MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,672.500	-58.11	-13.00	45.11	13.95	H	0.9	2
3	2,509.000	-53.72	-13.00	40.72	21.08	H	170.5	1
5	7,233.000	-42.60	-13.00	29.60	34.15	H	359	2



MODE	TX channel 189	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,672.500	-54.75	-13.00	41.75	13.99	V	1	1
3	2,509.500	-48.15	-13.00	35.15	20.80	V	359	1
5	7,870.500	-41.56	-13.00	28.56	34.07	V	359	1

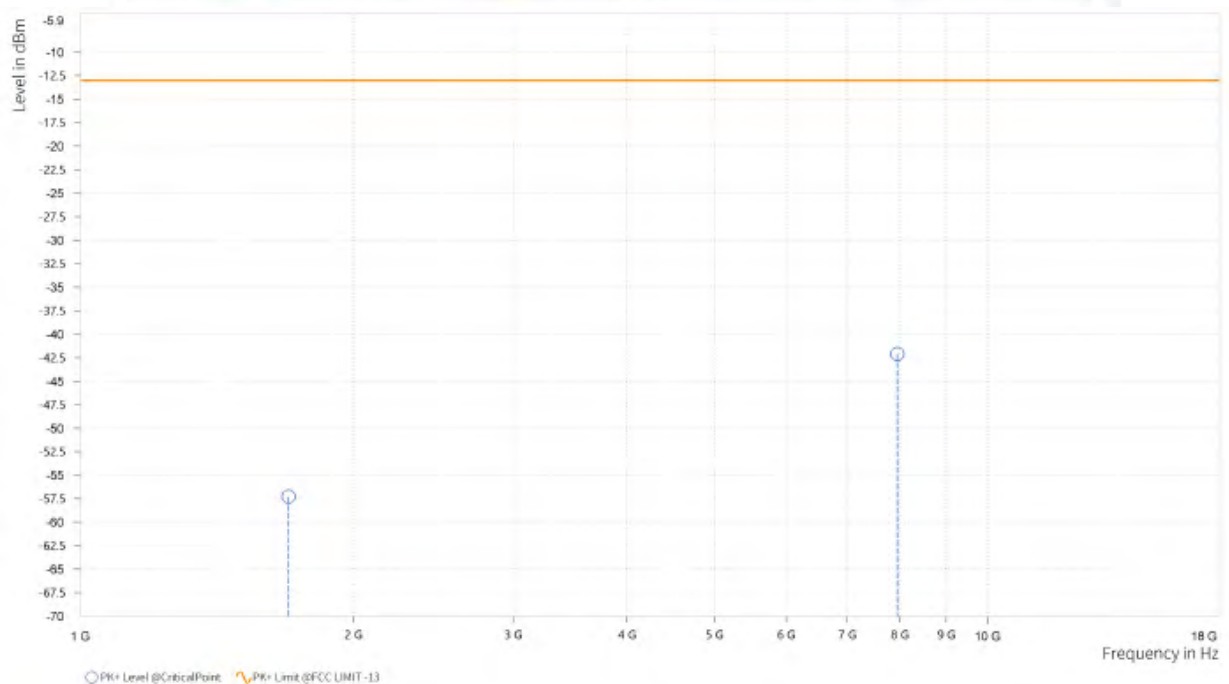




CH 251:

MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,696.500	-57.27	-13.00	44.27	14.64	H	359.1	1
5	7,950.000	-42.11	-13.00	29.11	34.20	H	272.2	1



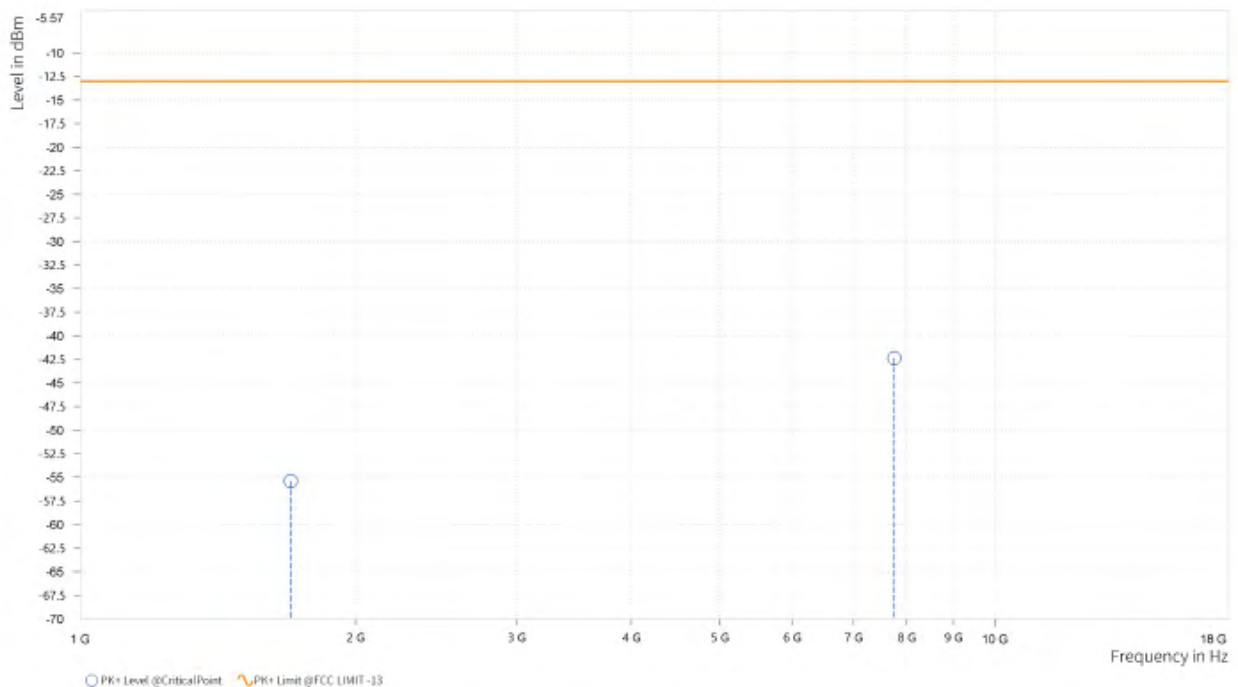


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VERITAS

Test Report No.: W7L-P23030005RF04

MODE	TX channel 251	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,698.000	-55.39	-13.00	42.39	15.14	V	297	2
5	7,752.500	-42.38	-13.00	29.38	34.10	V	272.1	1





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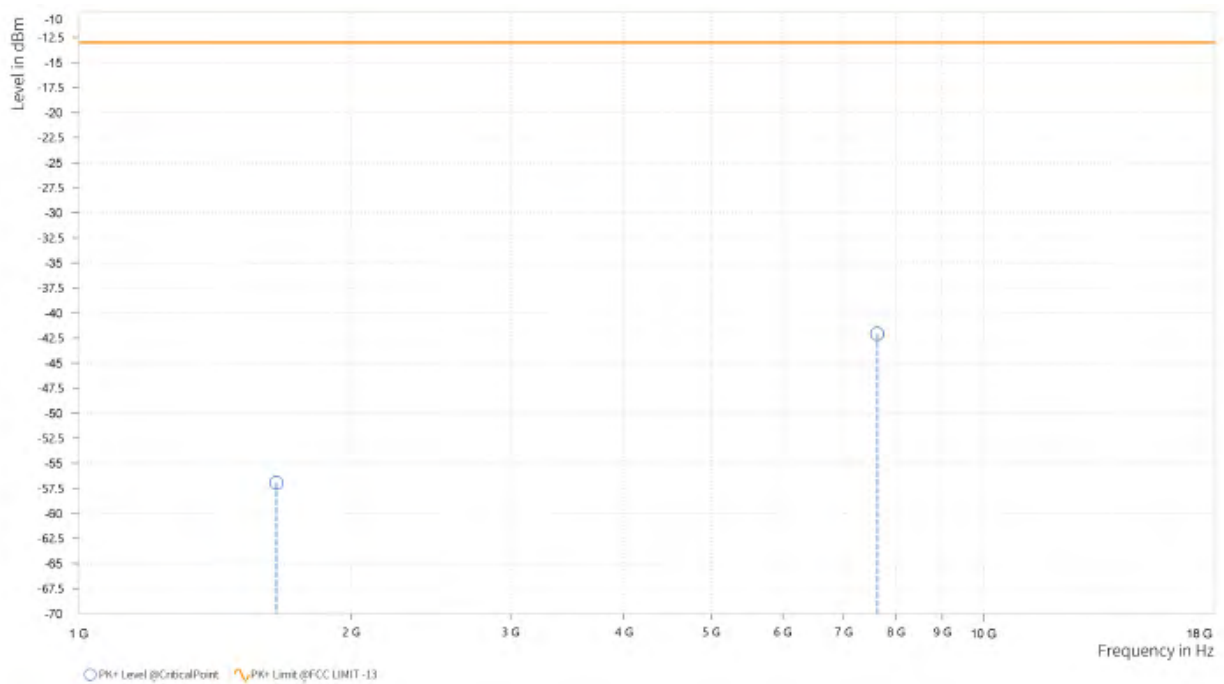
Test Report No.: W7L-P23030005RF04

WCDMA Band V(Ant4):

CH 4132:

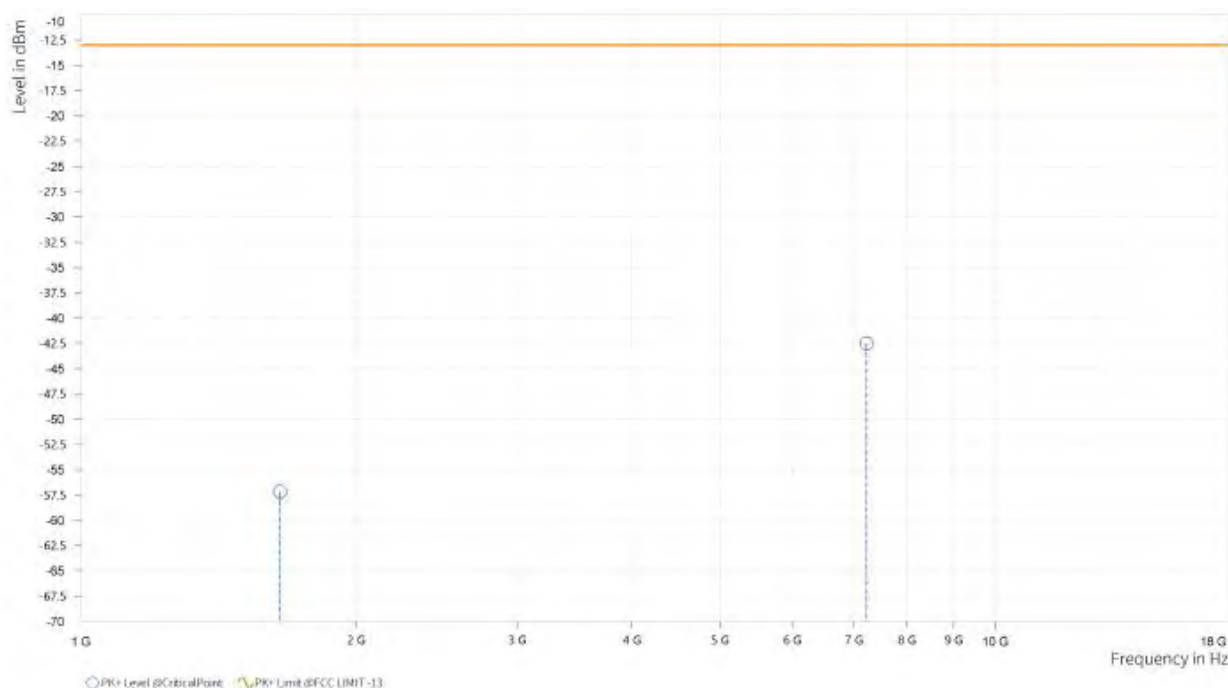
MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,654.000	-56.95	-13.00	43.95	13.54	H	298.2	2
5	7,628.500	-42.09	-13.00	29.09	33.68	H	267.3	1



MODE	TX channel 4132	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

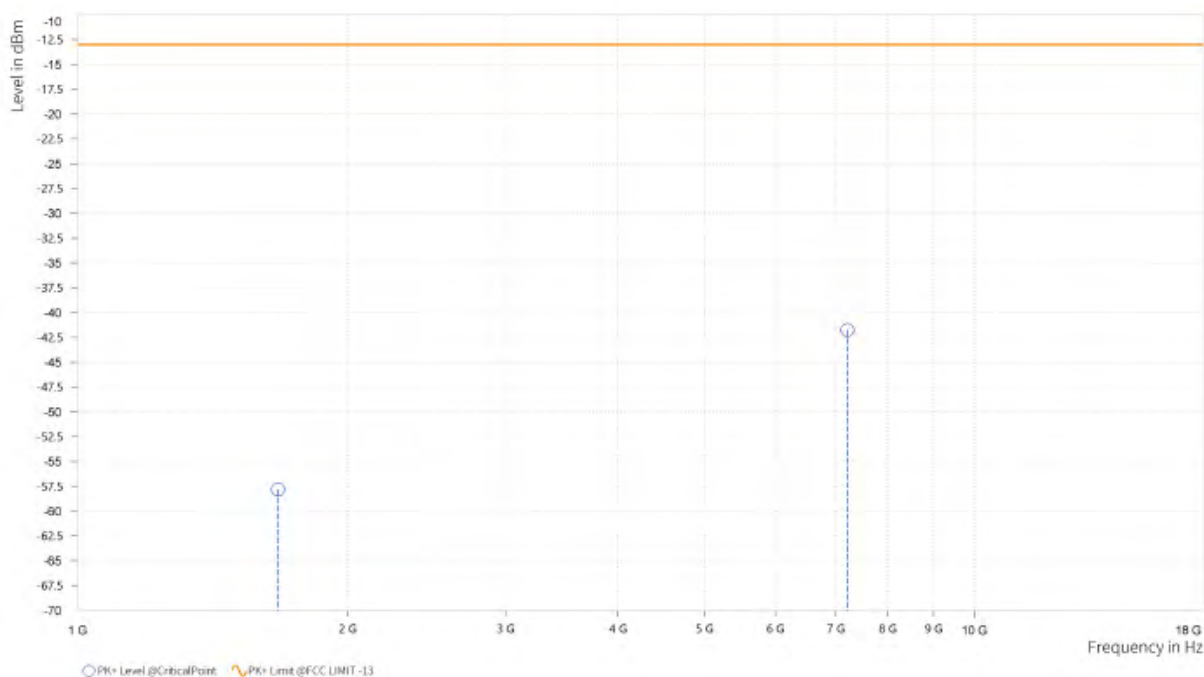
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,652.000	-57.18	-13.00	44.18	13.44	V	1	2
5	7,229.000	-42.52	-13.00	29.52	34.22	V	269.8	1



CH 4182:

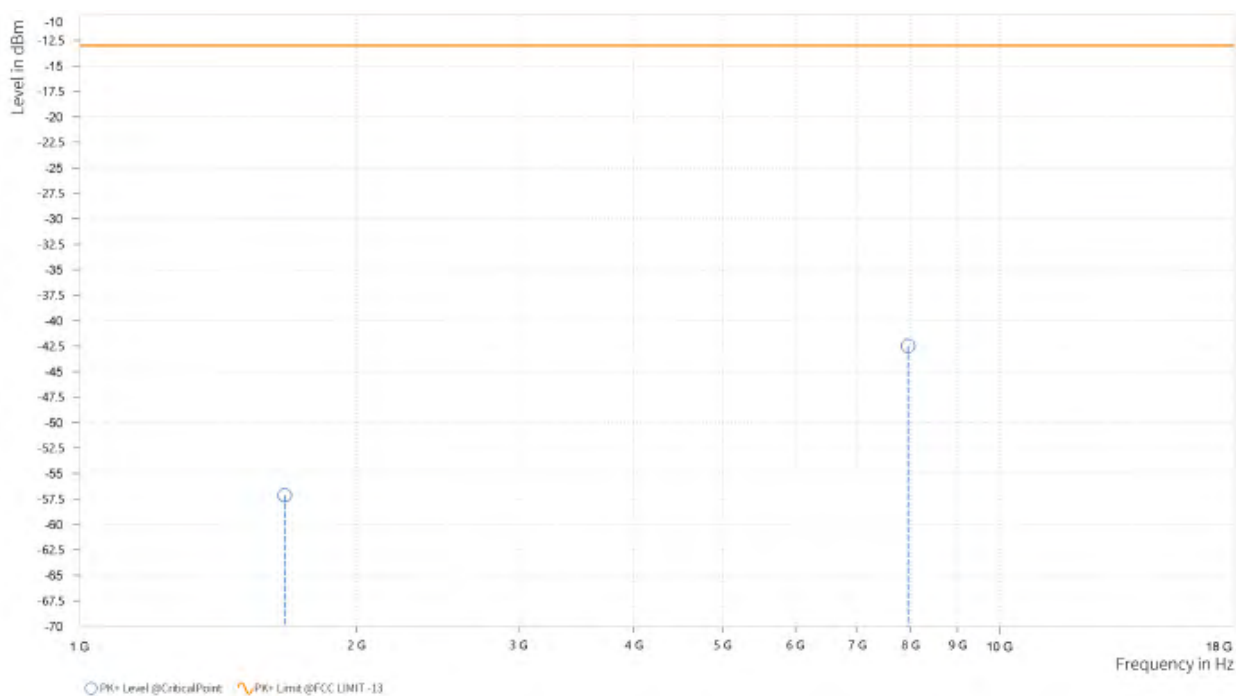
MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,672.500	-57.81	-13.00	44.81	13.95	H	62.9	1
5	7,214.500	-41.75	-13.00	28.75	33.98	H	0.9	2



MODE	TX channel 4182	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

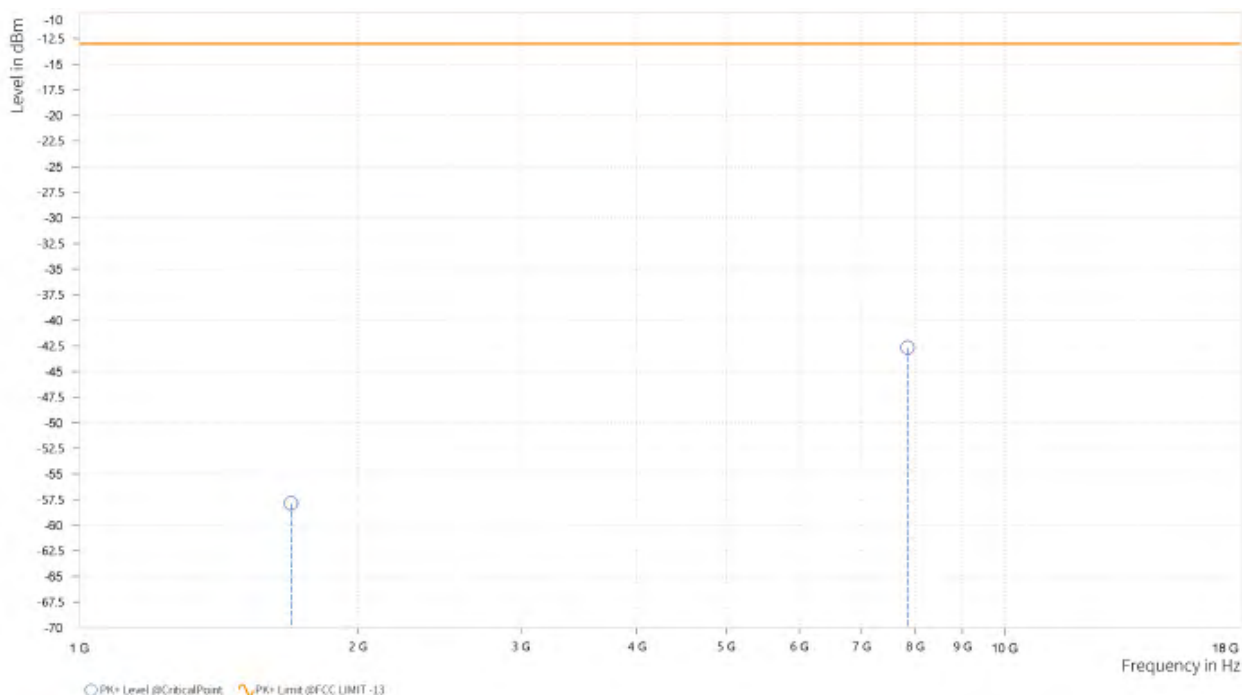
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,672.000	-57.14	-13.00	44.14	13.98	V	359	2
5	7,954.000	-42.47	-13.00	29.47	34.45	V	1	1



CH 4233:

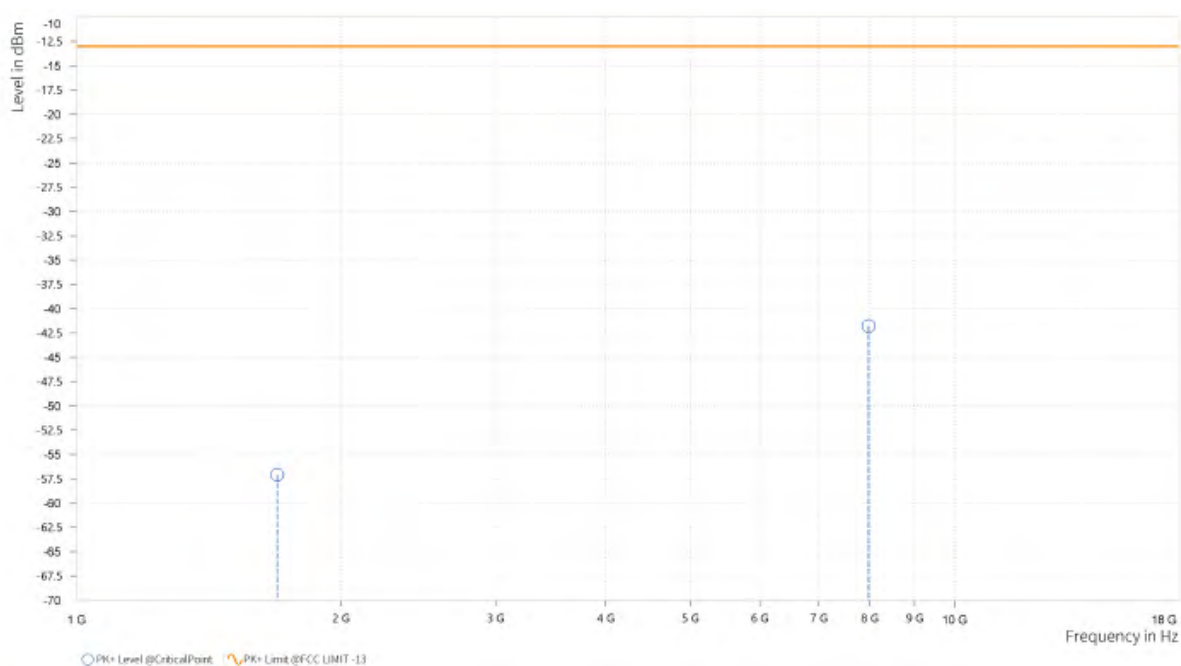
MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,693.500	-57.87	-13.00	44.87	14.45	H	359.1	1
5	7,851.000	-42.66	-13.00	29.66	33.95	H	1	1



MODE	TX channel 4233	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,692.000	-57.08	-13.00	44.08	14.99	V	359	2
5	7,977.000	-41.78	-13.00	28.78	34.57	V	359	1

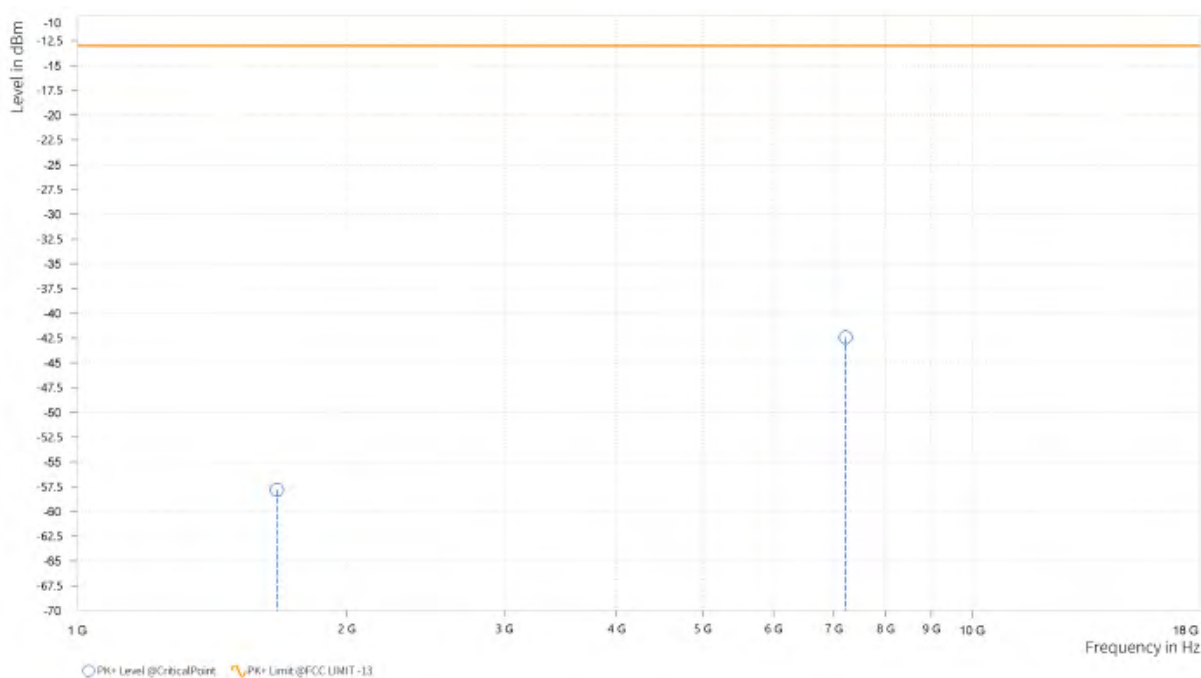


LTE Band 5(Ant4)

CHANNEL BANDWIDTH: 1.4MHz / QPSK

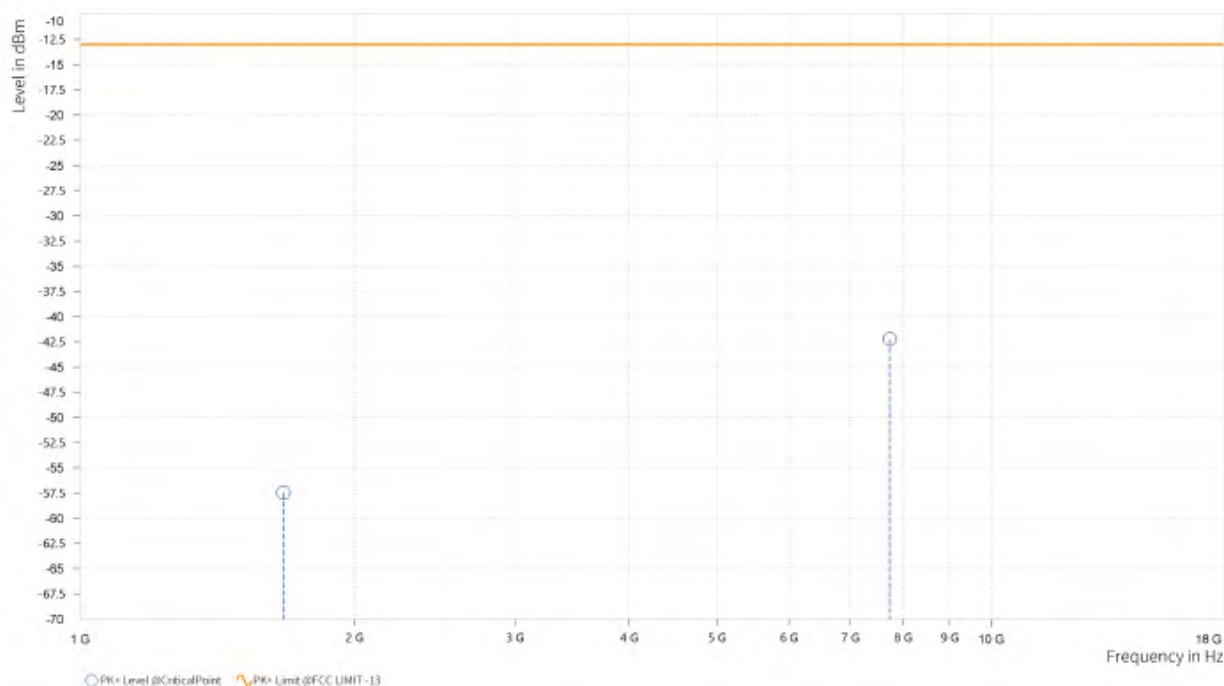
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,671.500	-57.82	-13.00	44.82	13.93	H	294.6	2
5	7,220.500	-42.42	-13.00	29.42	34.05	H	359	1



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

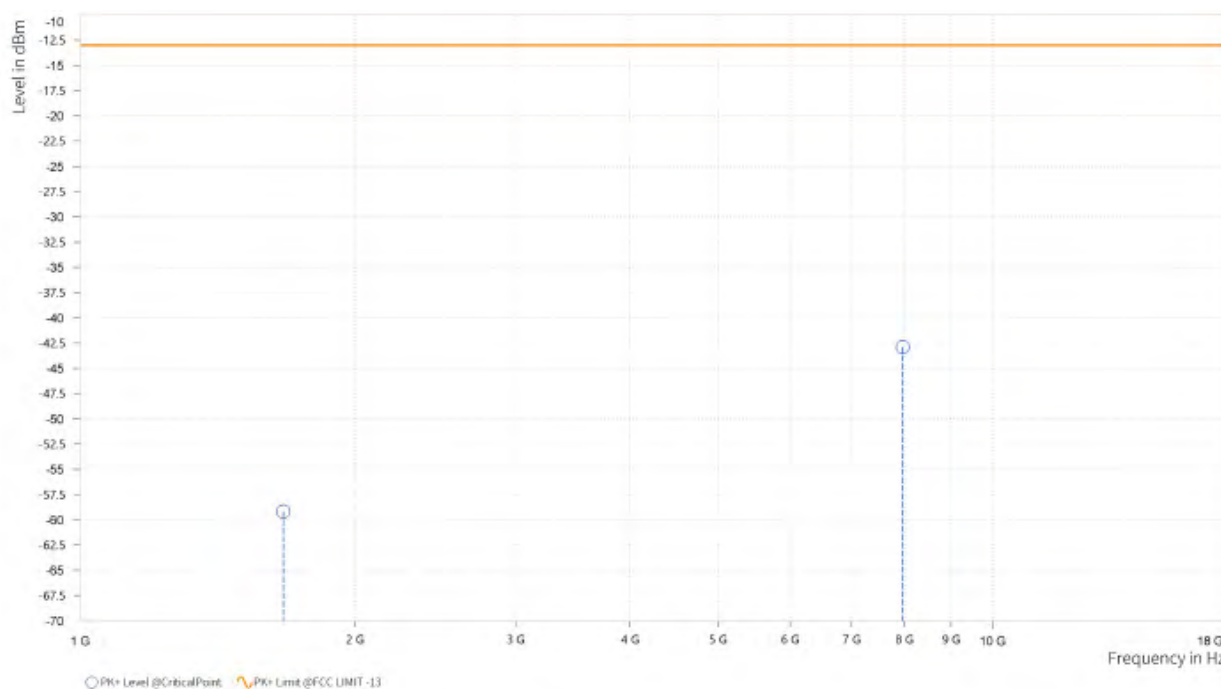
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,671.500	-57.47	-13.00	44.47	13.96	V	1	1
5	7,736.500	-42.23	-13.00	29.23	34.16	V	273.3	1



CHANNEL BANDWIDTH: 3MHz / QPSK

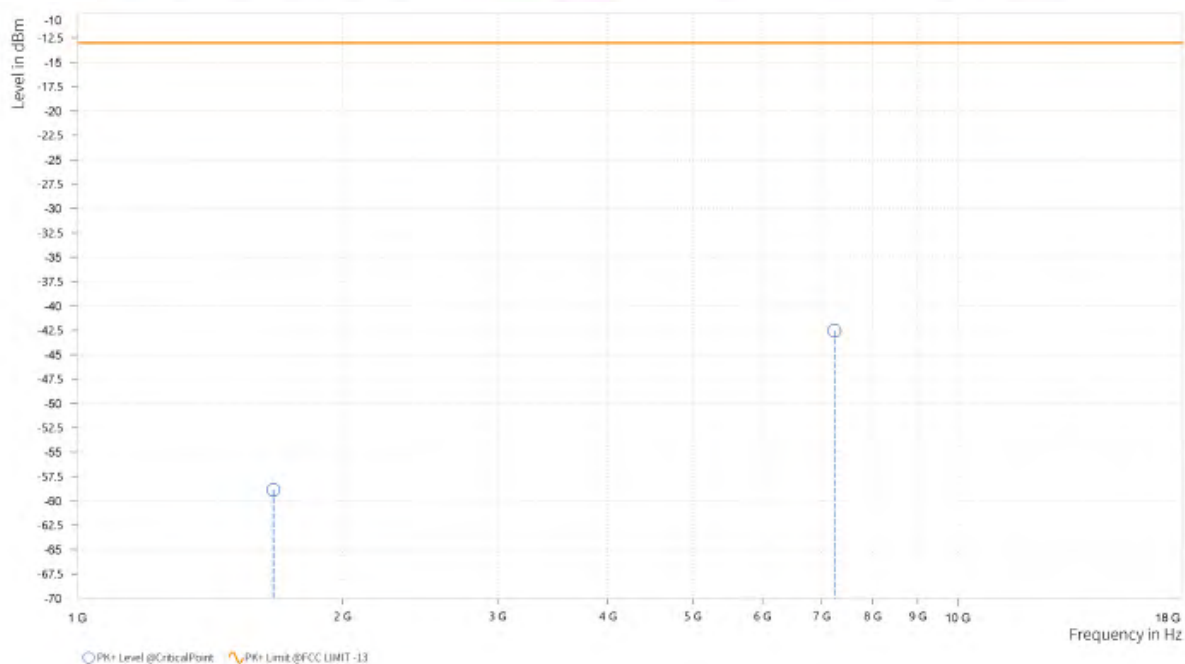
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,670.000	-59.18	-13.00	46.18	13.90	H	65.4	1
5	7,967.000	-42.89	-13.00	29.89	34.23	H	359	2



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,669.500	-58.87	-13.00	45.87	13.92	V	297	2
5	7,243.000	-42.54	-13.00	29.54	34.36	V	359	2

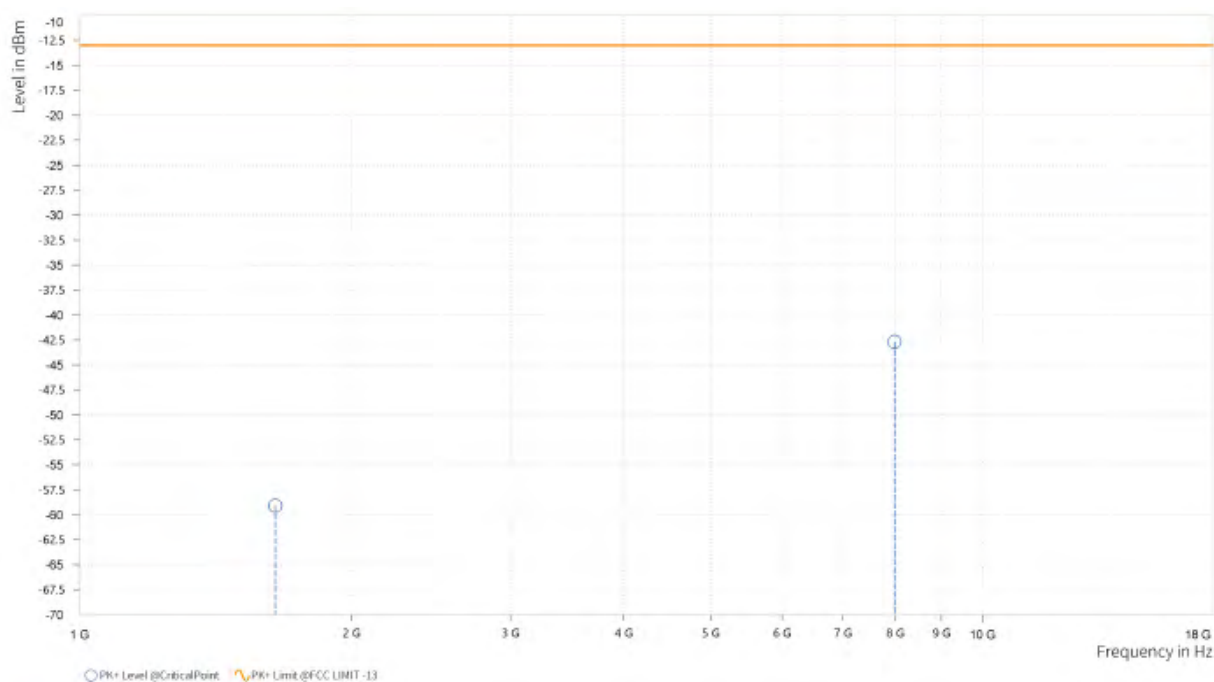


CHANNEL BANDWIDTH: 5MHz / QPSK

CH20425

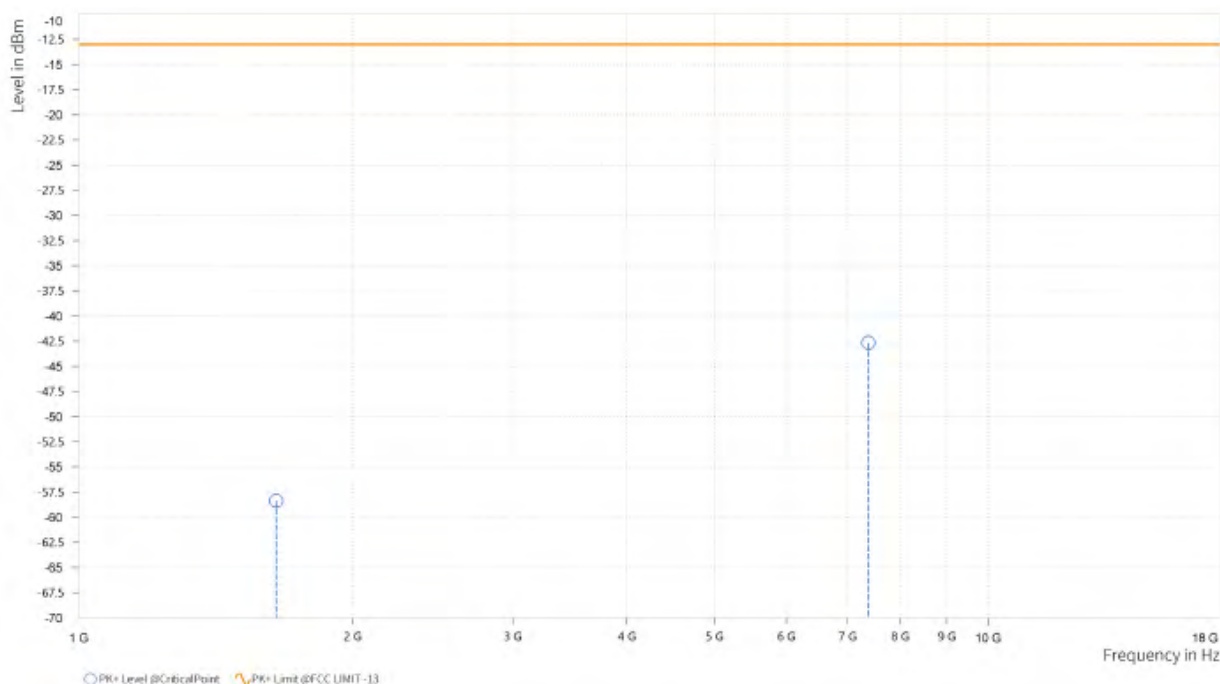
MODE	TX channel 20425	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,647.500	-59.11	-13.00	46.11	13.37	H	295.8	2
5	7,988.000	-42.67	-13.00	29.67	34.38	H	1	1



MODE	TX channel 20425	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

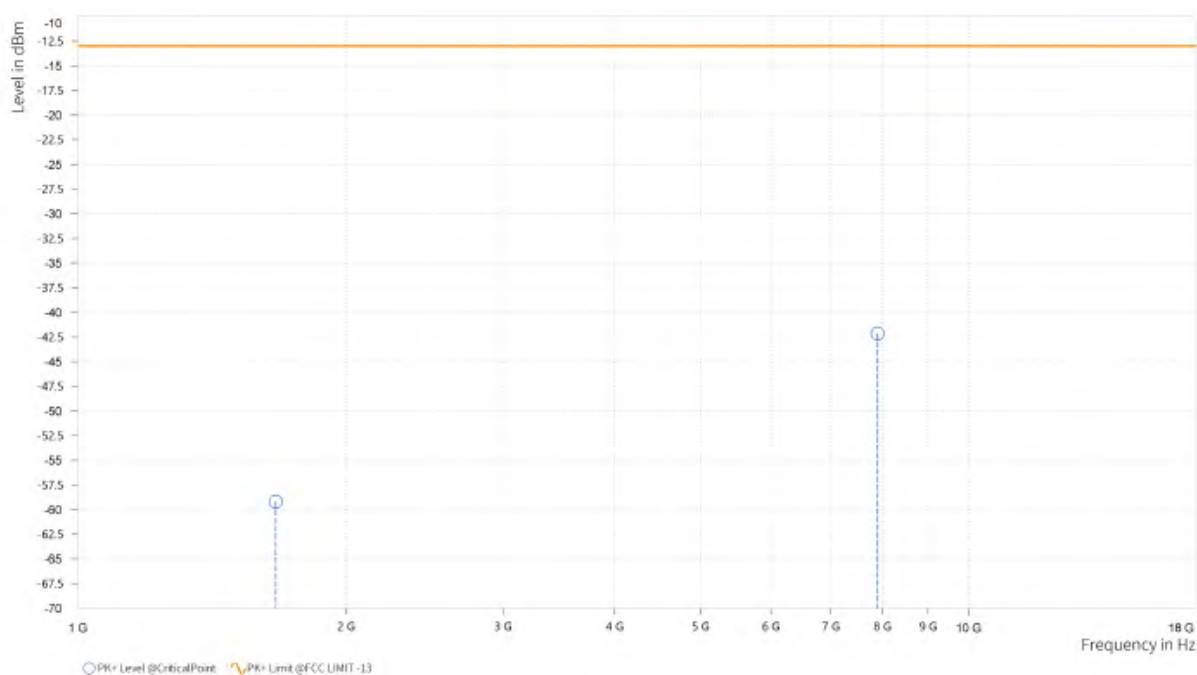
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.500	-58.38	-13.00	45.38	13.33	V	64.1	1
5	7,382.500	-42.65	-13.00	29.65	33.72	V	83.1	2



CH20525

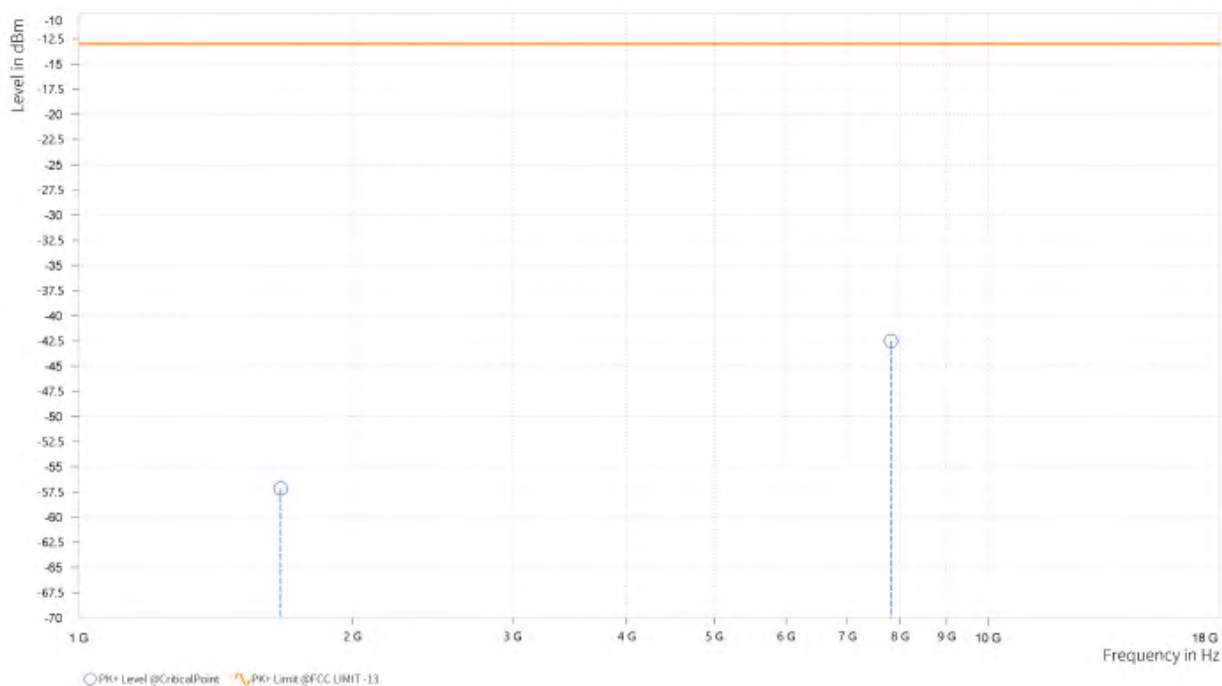
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,667.500	-59.21	-13.00	46.21	13.85	H	359	2
5	7,902.000	-42.16	-13.00	29.16	34.12	H	359	1



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,668.000	-57.17	-13.00	44.17	13.88	V	359.1	1
5	7,822.500	-42.51	-13.00	29.51	34.04	V	300.7	1

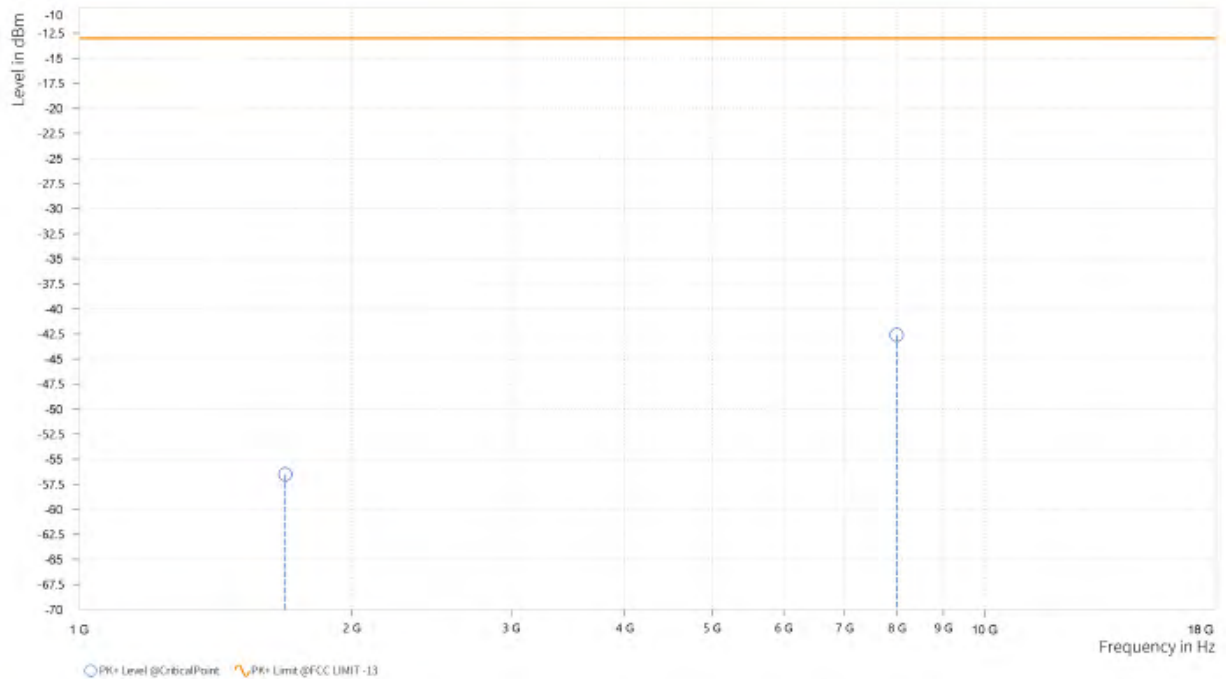




CH20625

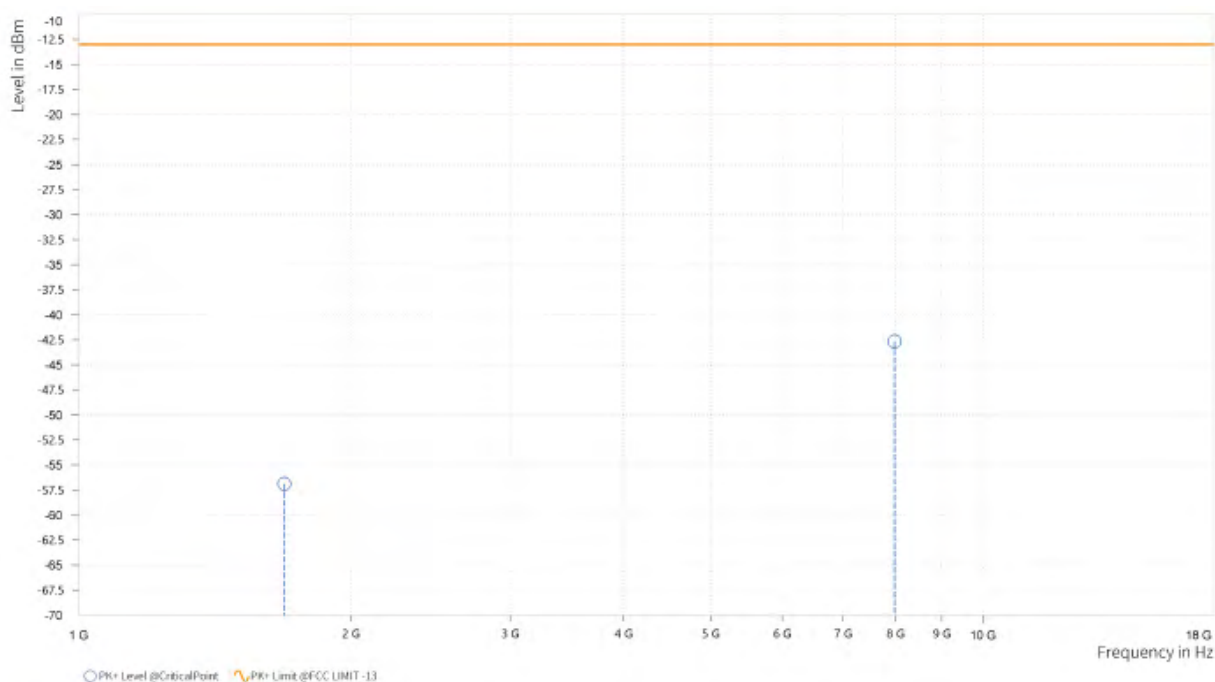
MODE	TX channel 20625	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,689.000	-56.50	-13.00	43.50	14.31	H	295.8	2
5	7,995.000	-42.61	-13.00	29.61	34.44	H	84.2	2



MODE	TX channel 20625	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,688.000	-56.88	-13.00	43.88	14.76	V	359	2
5	7,983.500	-42.65	-13.00	29.65	34.60	V	275.8	1

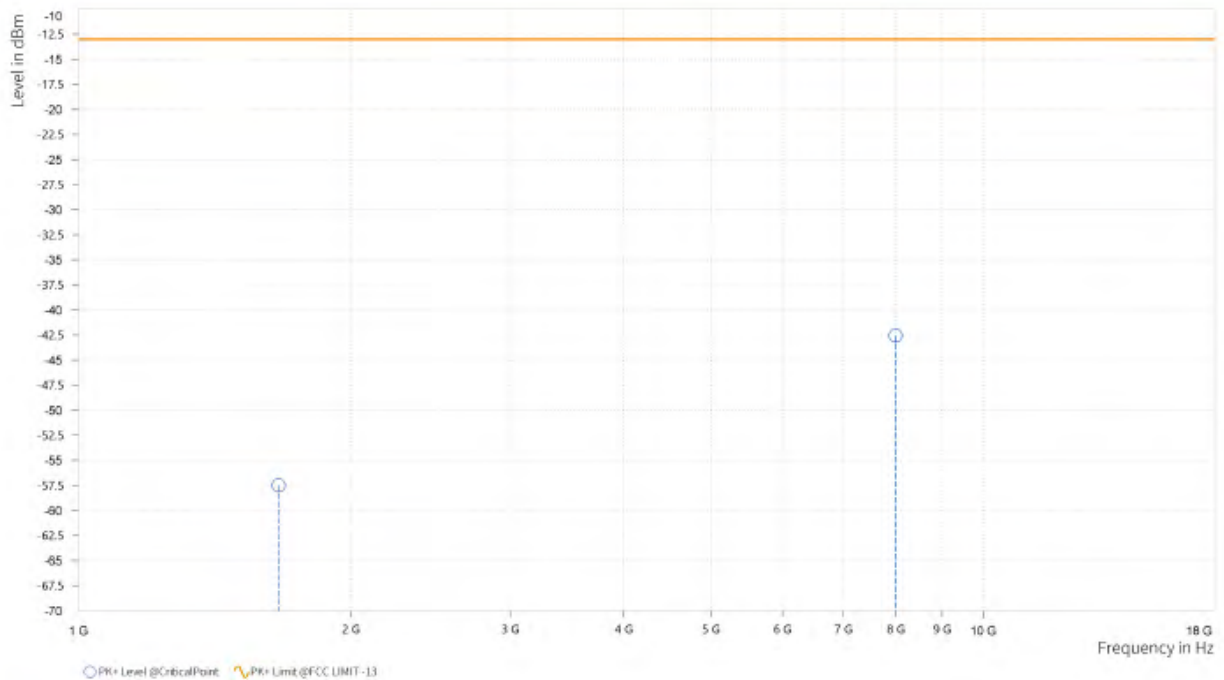




CHANNEL BANDWIDTH: 10MHz / QPSK

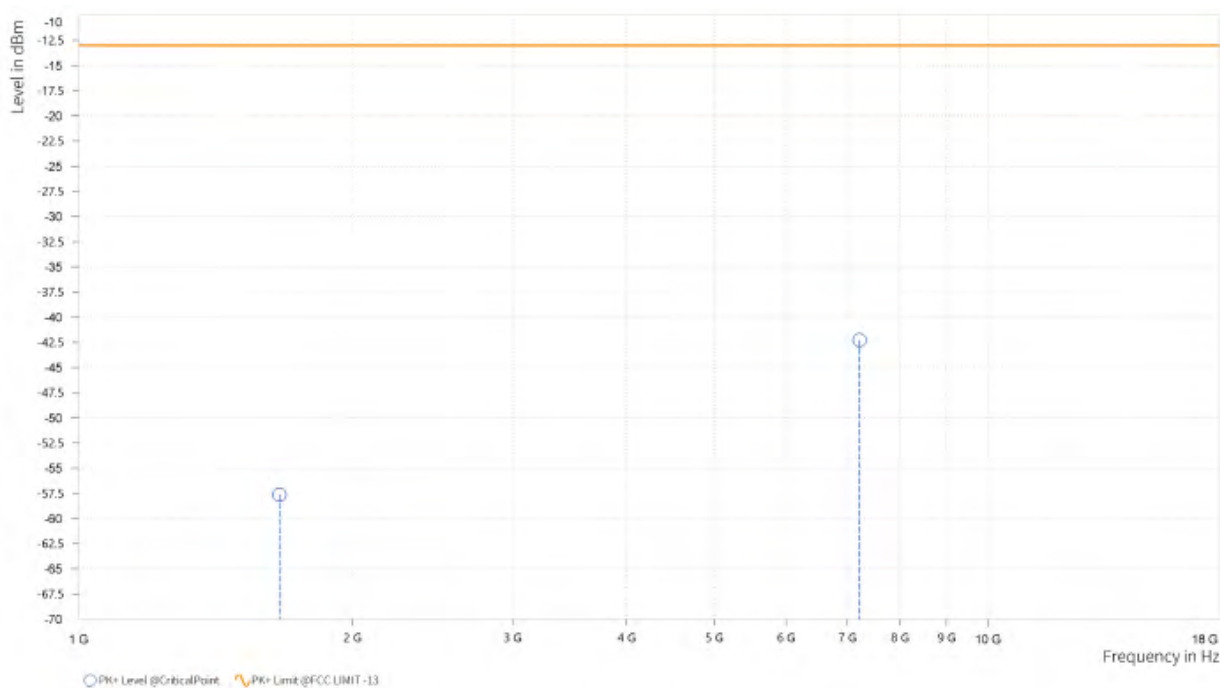
MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,664.500	-57.48	-13.00	44.48	13.79	H	64.2	1
5	7,997.500	-42.56	-13.00	29.56	34.47	H	1	2



MODE	TX channel 20525	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	AC 120V/60Hz
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,663.500	-57.63	-13.00	44.63	13.78	V	359	1
5	7,221.500	-42.29	-13.00	29.29	34.14	V	86.6	2

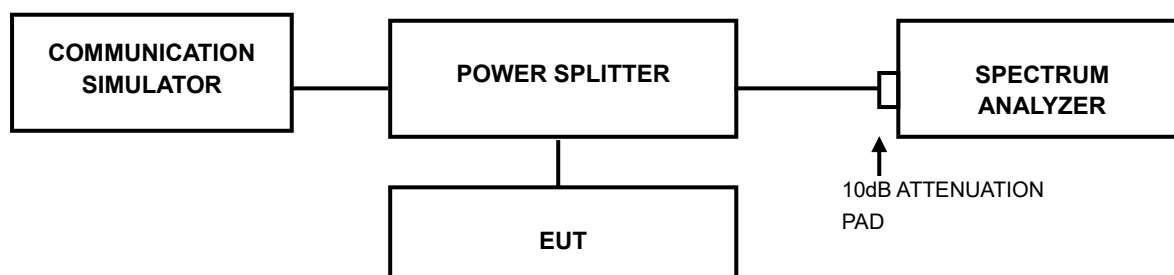


3.7 PEAK TO AVERAGE RATIO

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%.



Test Report No.: W7L-P23030005RF04

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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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:

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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.

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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7 APPENDIX

GSM850

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	189	2.59	13	PASS
GSM850	128	2.59	13	PASS
GSM850	251	2.59	13	PASS
EGPRS850	189	5.51	13	PASS
EGPRS850	128	5.53	13	PASS
EGPRS850	251	5.53	13	PASS

Test Graphs



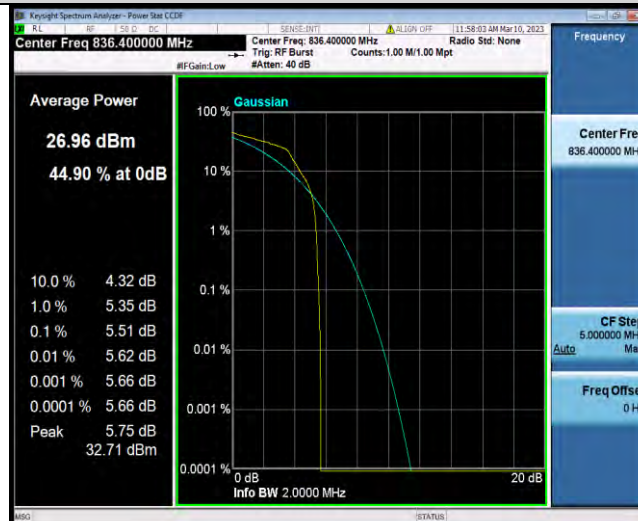


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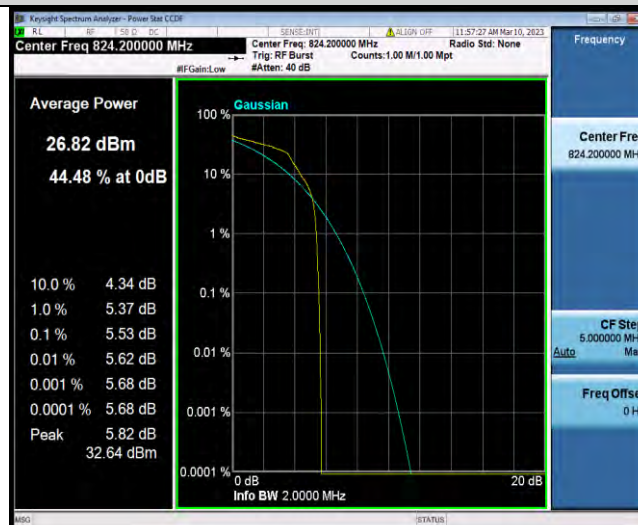
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EGPRS850-189



EGPRS850-128

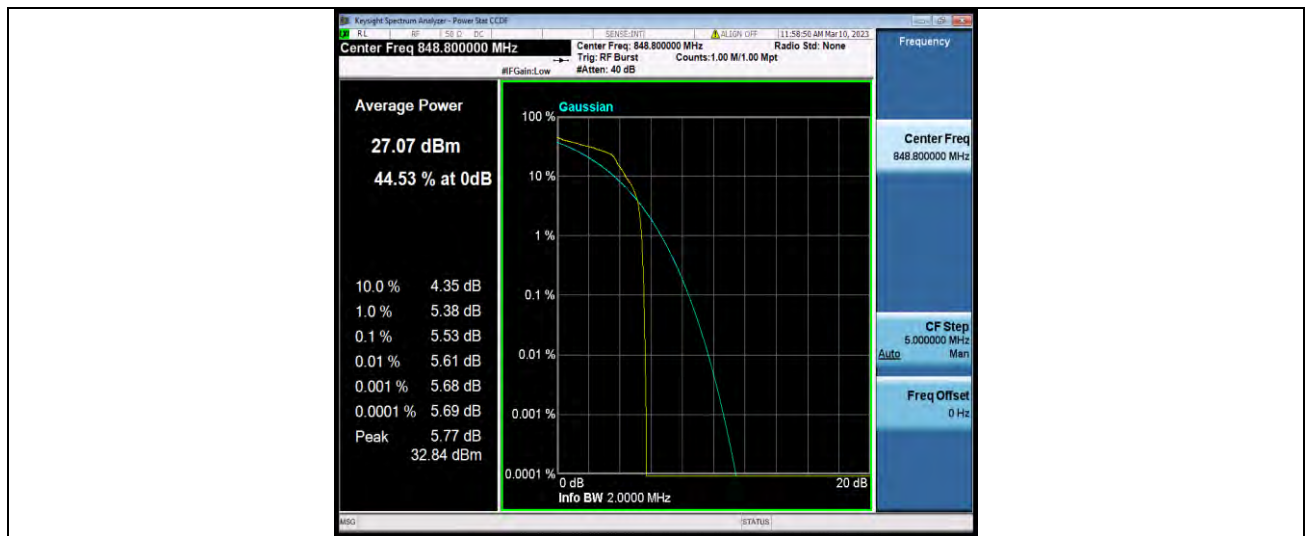


EGPRS850-251



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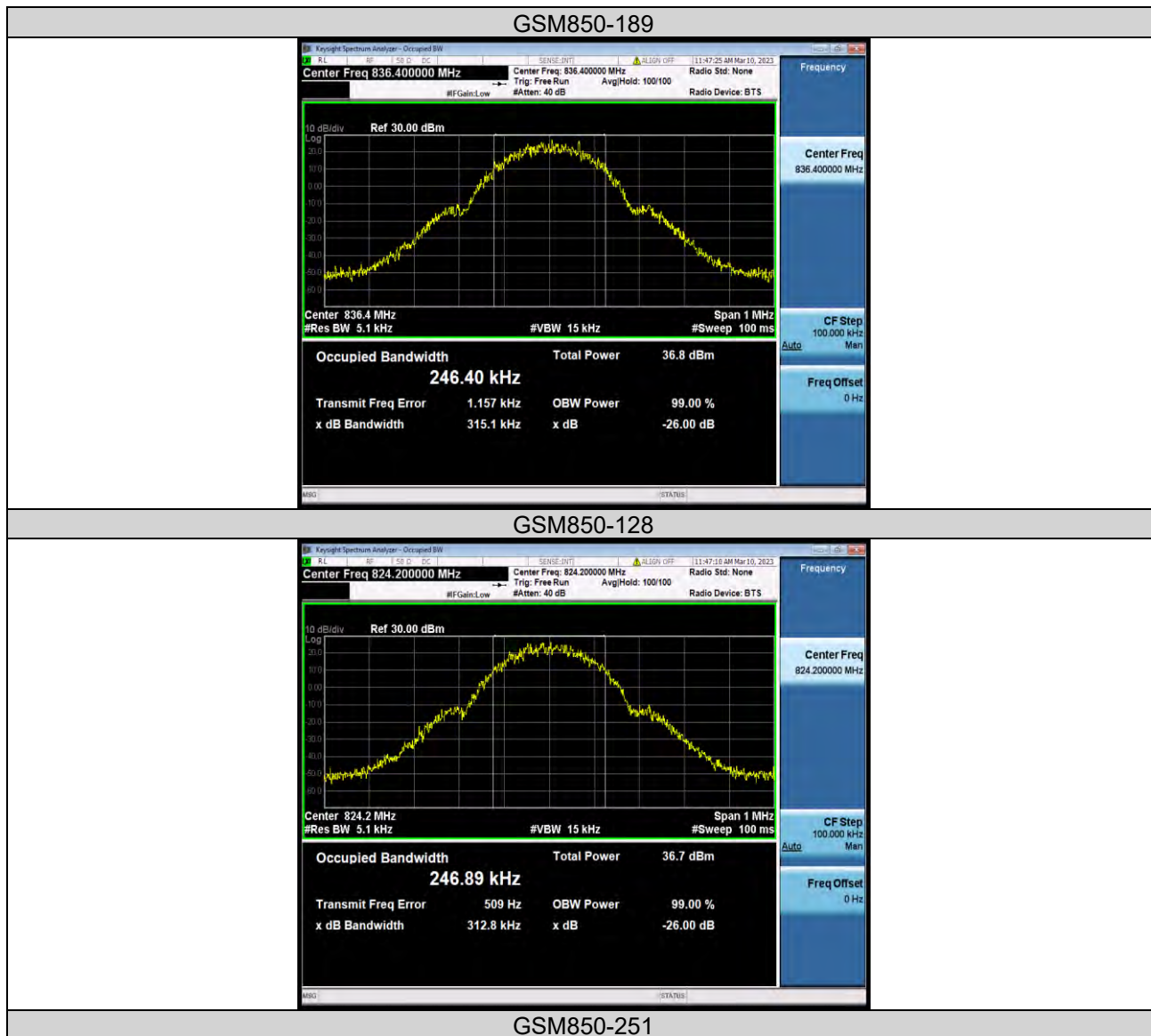


26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	189	0.24640	0.3151	---	PASS
GSM850	128	0.24689	0.3128	---	PASS
GSM850	251	0.24635	0.3144	---	PASS
EGPRS850	189	0.24729	0.3062	---	PASS
EGPRS850	128	0.25125	0.3115	---	PASS
EGPRS850	251	0.25134	0.3192	---	PASS

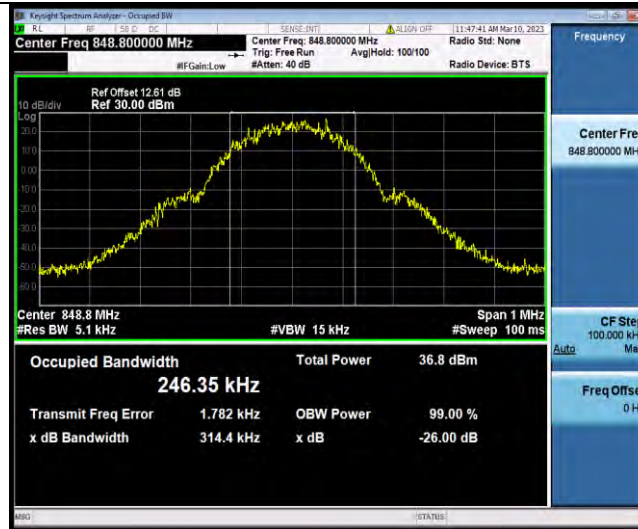
Test Graphs



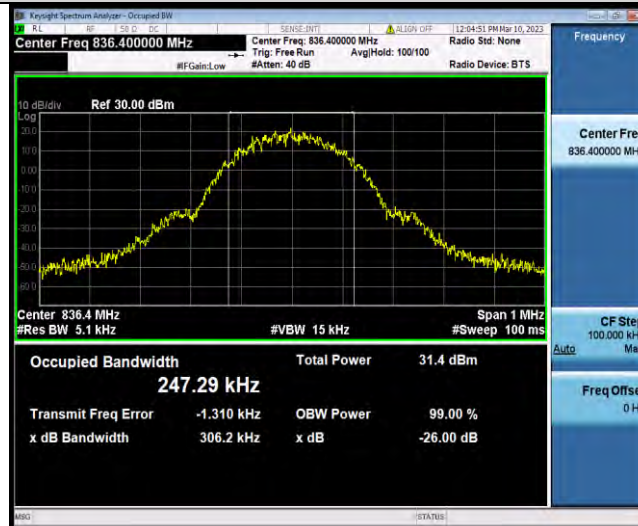


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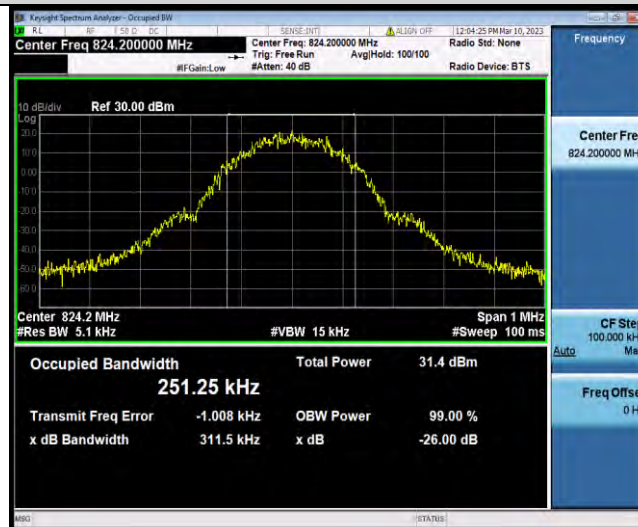
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EGPRS850-189



EGPRS850-128

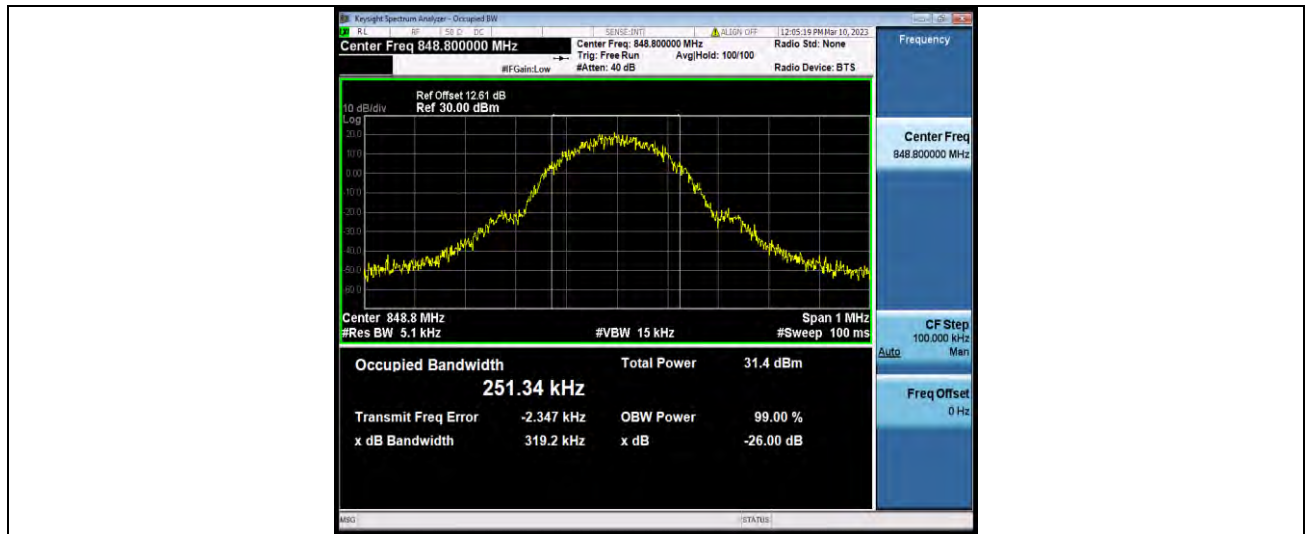


EGPRS850-251



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VERITAS

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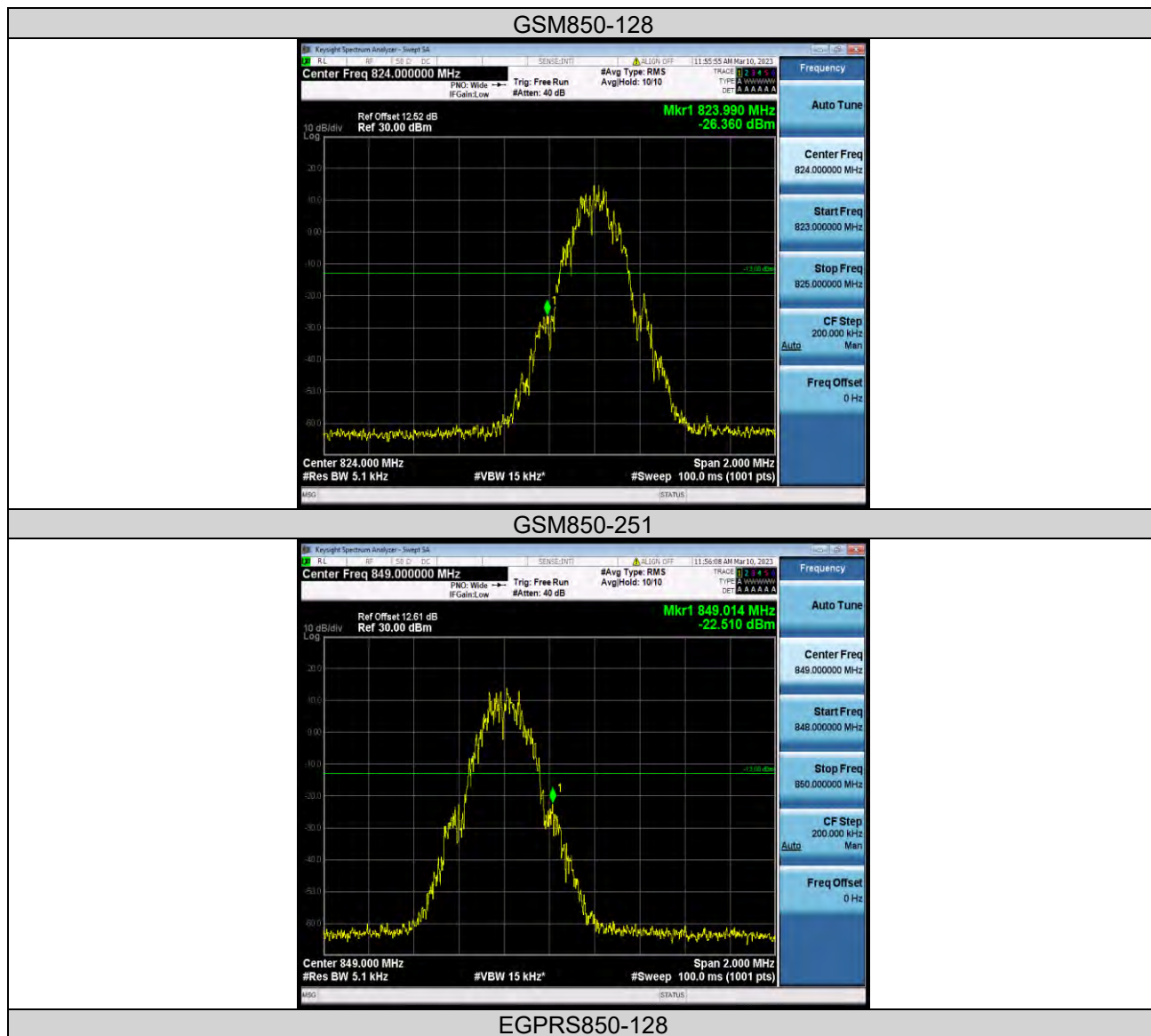
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BAND EDGE

Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	823.99	-26.36	-13	PASS
GSM850	251	849.01	-22.51	-13	PASS
EGPRS850	128	823.96	-33.50	-13	PASS
EGPRS850	251	849.02	-25.40	-13	PASS

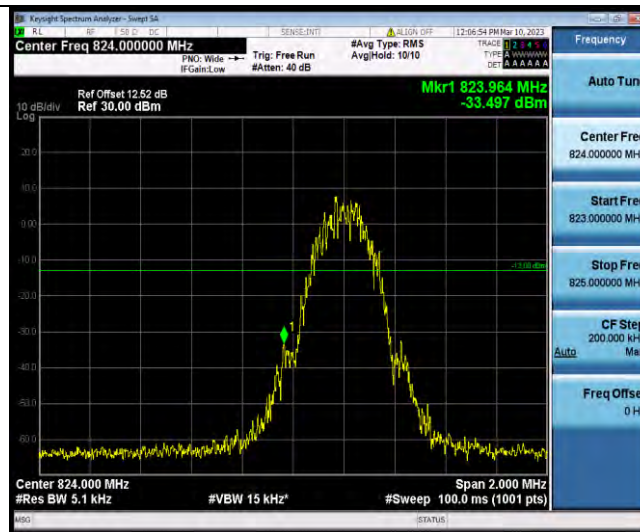
Test Graphs



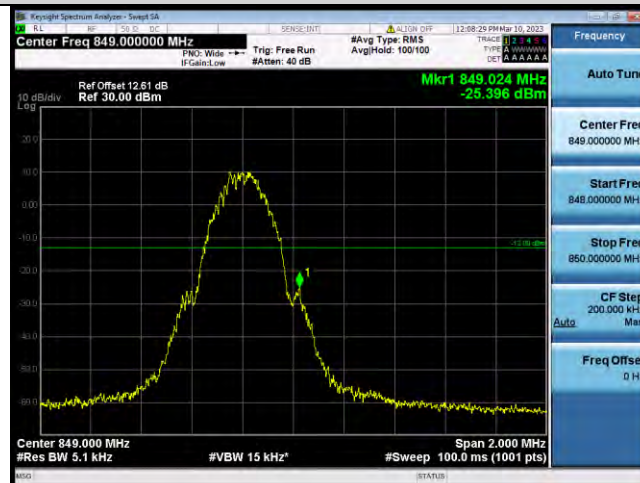


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VERITAS

Test Report No.: W7L-P23030005RF04



EGPRS850-251

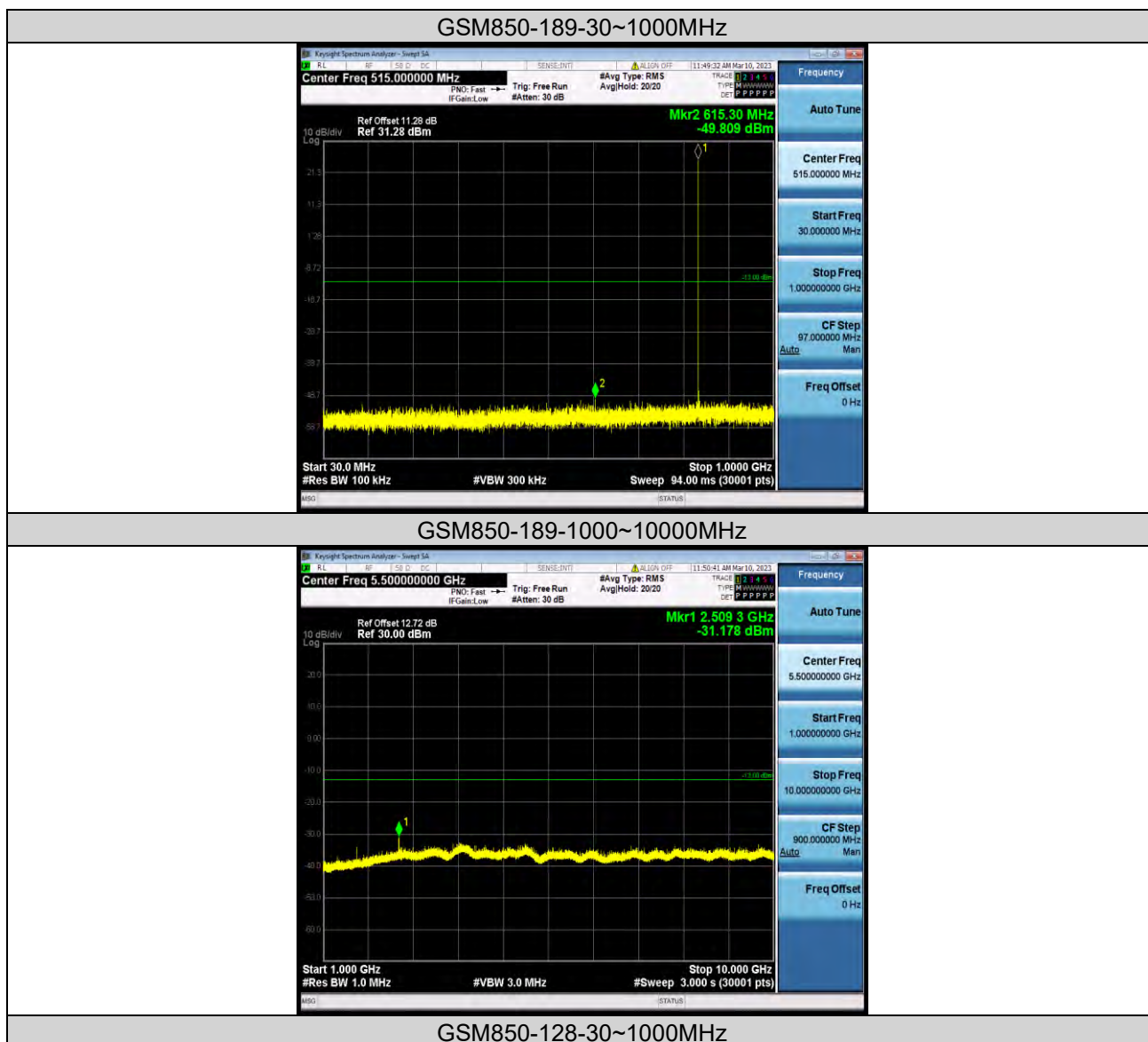


CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM850	189	30~1000MHz	615.3	-49.81	-13	PASS
GSM850	189	1000~10000MHz	2509.3	-31.18	-13	PASS
GSM850	128	30~1000MHz	926.25	-50.21	-13	PASS
GSM850	128	1000~10000MHz	2473	-30.83	-13	PASS
GSM850	251	30~1000MHz	604.73	-50.58	-13	PASS
GSM850	251	1000~10000MHz	2546.2	-31.13	-13	PASS
EGPRS850	189	30~1000MHz	970.38	-50.03	-13	PASS
EGPRS850	189	1000~10000MHz	3757.9	-32.77	-13	PASS
EGPRS850	128	30~1000MHz	929.32	-50.13	-13	PASS
EGPRS850	128	1000~10000MHz	3859.6	-32.11	-13	PASS
EGPRS850	251	30~1000MHz	966.05	-49.54	-13	PASS
EGPRS850	251	1000~10000MHz	3868.6	-32.7	-13	PASS

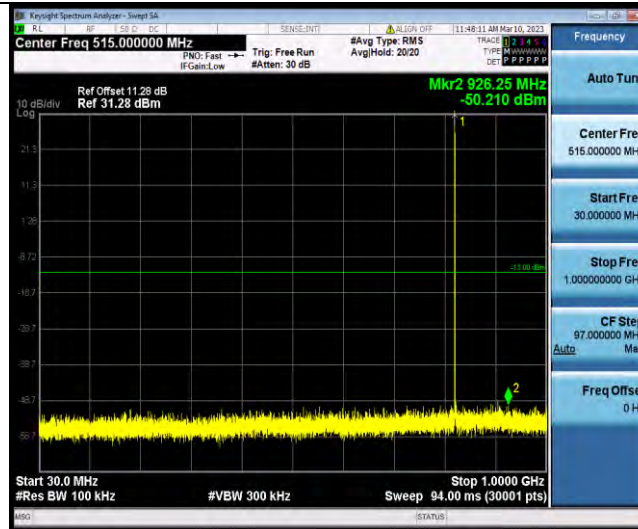
Test Graphs





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Test Report No.: W7L-P23030005RF04



GSM850-128-1000~10000MHz



GSM850-251-30~1000MHz



GSM850-251-1000~10000MHz

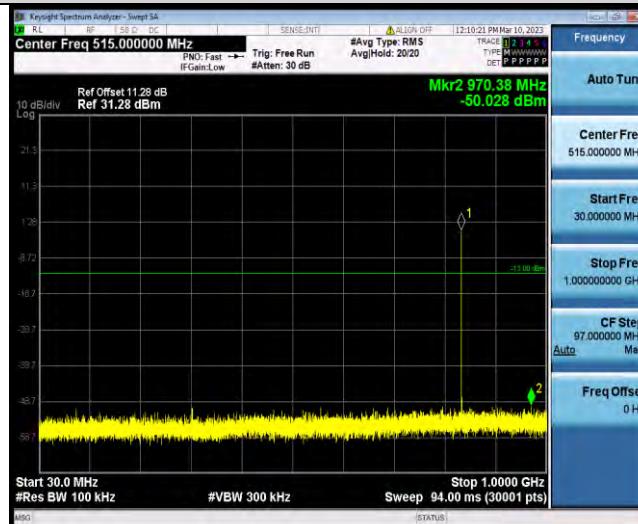


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VERITAS

Test Report No.: W7L-P23030005RF04



EGPRS850-189-30~1000MHz



EGPRS850-189-1000~10000MHz

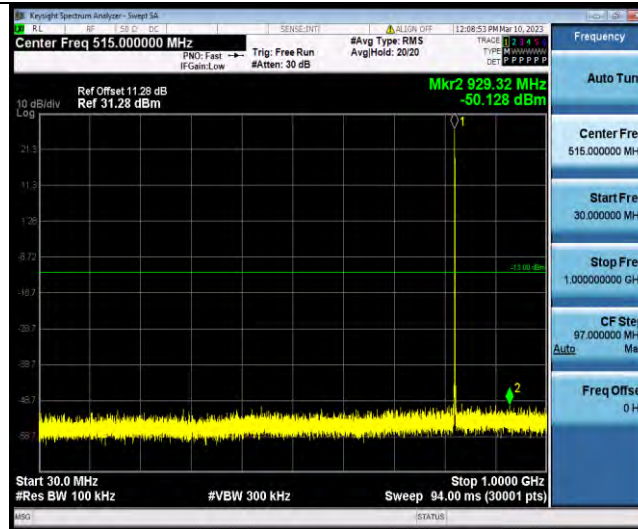


EGPRS850-128-30~1000MHz



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Test Report No.: W7L-P23030005RF04



EGPRS850-128-1000~10000MHz



EGPRS850-251-30~1000MHz



EGPRS850-251-1000~10000MHz



FREQUENCY STABILITY

Test Result

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	189	LV	NT	0.90	0.001076	±2.5	PASS
GSM850	189	NV	NT	4.26	0.005093	±2.5	PASS
GSM850	189	HV	NT	1.65	0.001973	±2.5	PASS
GSM850	128	LV	NT	0.74	0.000898	±2.5	PASS
GSM850	128	NV	NT	1.00	0.001213	±2.5	PASS
GSM850	128	HV	NT	3.81	0.004623	±2.5	PASS
GSM850	251	LV	NT	2.58	0.003040	±2.5	PASS
GSM850	251	NV	NT	-1.23	-0.001449	±2.5	PASS
GSM850	251	HV	NT	-1.19	-0.001402	±2.5	PASS

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	189	NV	-30	1.23	0.001471	±2.5	PASS
GSM850	189	NV	-20	3.20	0.003826	±2.5	PASS
GSM850	189	NV	-10	6.23	0.007449	±2.5	PASS
GSM850	189	NV	0	2.49	0.002977	±2.5	PASS
GSM850	189	NV	10	6.39	0.007640	±2.5	PASS
GSM850	189	NV	20	2.74	0.003276	±2.5	PASS
GSM850	189	NV	30	2.81	0.003360	±2.5	PASS
GSM850	189	NV	40	3.87	0.004627	±2.5	PASS



GSM850	189	NV	50	1.23	0.001471	±2.5	PASS
GSM850	128	NV	-30	-4.04	-0.004902	±2.5	PASS
GSM850	128	NV	-20	3.97	0.004817	±2.5	PASS
GSM850	128	NV	-10	5.71	0.006928	±2.5	PASS
GSM850	128	NV	0	3.81	0.004623	±2.5	PASS
GSM850	128	NV	10	3.97	0.004817	±2.5	PASS
GSM850	128	NV	20	3.71	0.004501	±2.5	PASS
GSM850	128	NV	30	3.58	0.004344	±2.5	PASS
GSM850	128	NV	40	2.45	0.002973	±2.5	PASS
GSM850	128	NV	50	3.94	0.004780	±2.5	PASS
GSM850	251	NV	-30	2.45	0.002886	±2.5	PASS
GSM850	251	NV	-20	0.90	0.001060	±2.5	PASS
GSM850	251	NV	-10	2.74	0.003228	±2.5	PASS
GSM850	251	NV	0	2.65	0.003122	±2.5	PASS
GSM850	251	NV	10	-0.42	-0.000495	±2.5	PASS
GSM850	251	NV	20	2.13	0.002509	±2.5	PASS
GSM850	251	NV	30	3.29	0.003876	±2.5	PASS
GSM850	251	NV	40	2.71	0.003193	±2.5	PASS
GSM850	251	NV	50	0.65	0.000766	±2.5	PASS

Note: LV = Low voltage(3.5V); NV = Normal voltage(3.8V); HV = High voltage(4.2V);NT = Normal temperature (25℃).

MAX Deviation calculation

Frequency Stability	Frequency(MHz)	Limit Line(MHz)	Result
fL- MAX(Δf)	836.2768	≥824	PASS
fH- MAX(Δf)	848.923175	≤849	

Note : 1. |MAX(Δf)| = Max Deviation

2. fL = Occ low channel fL(-13dBm/MHz)

3. fH = Occ High channel fH(-13dBm/MHz)

4. |MAX(Δf)| =6.39 Hz.



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WCMDA BAND5

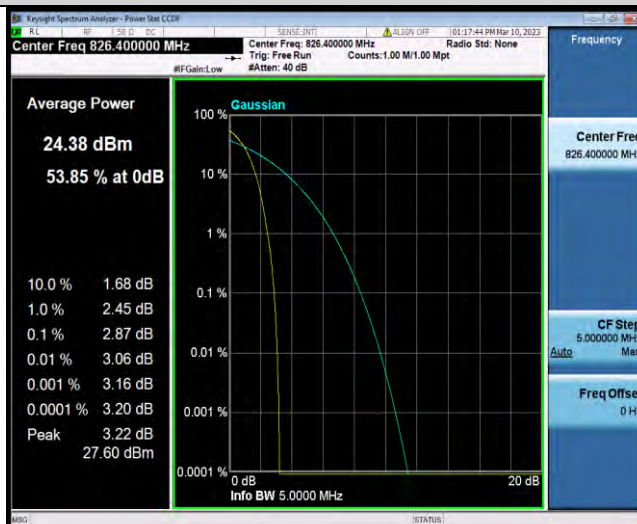
PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	2.87	13	PASS
Band5	4182	2.85	13	PASS
Band5	4233	2.95	13	PASS

Test Graphs

Band5-4132



Band5-4182

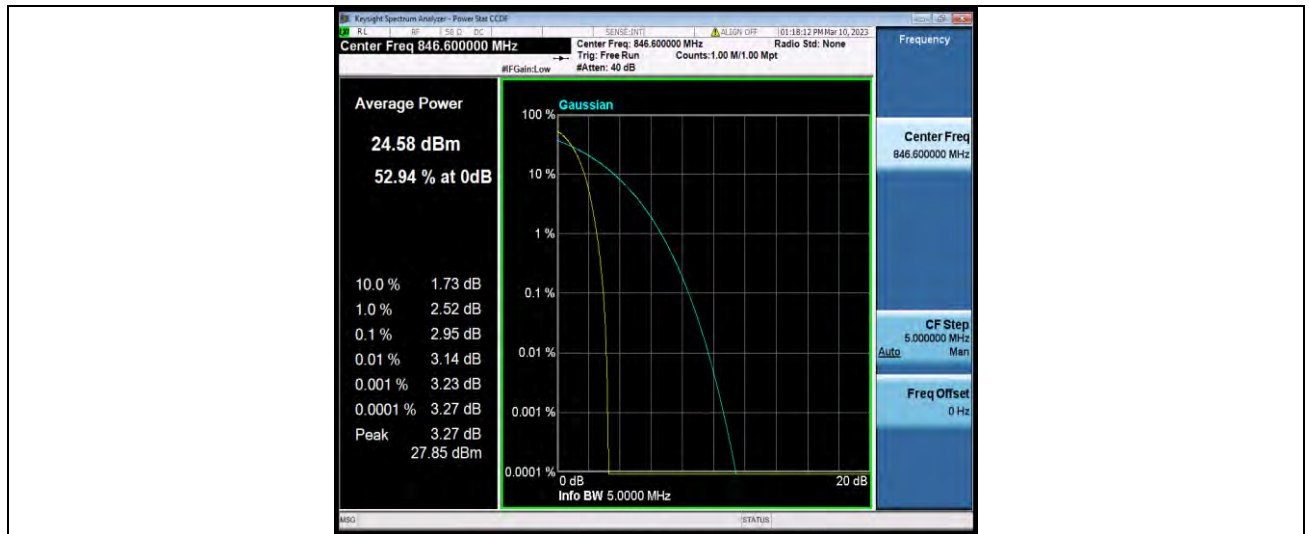


Band5-4233



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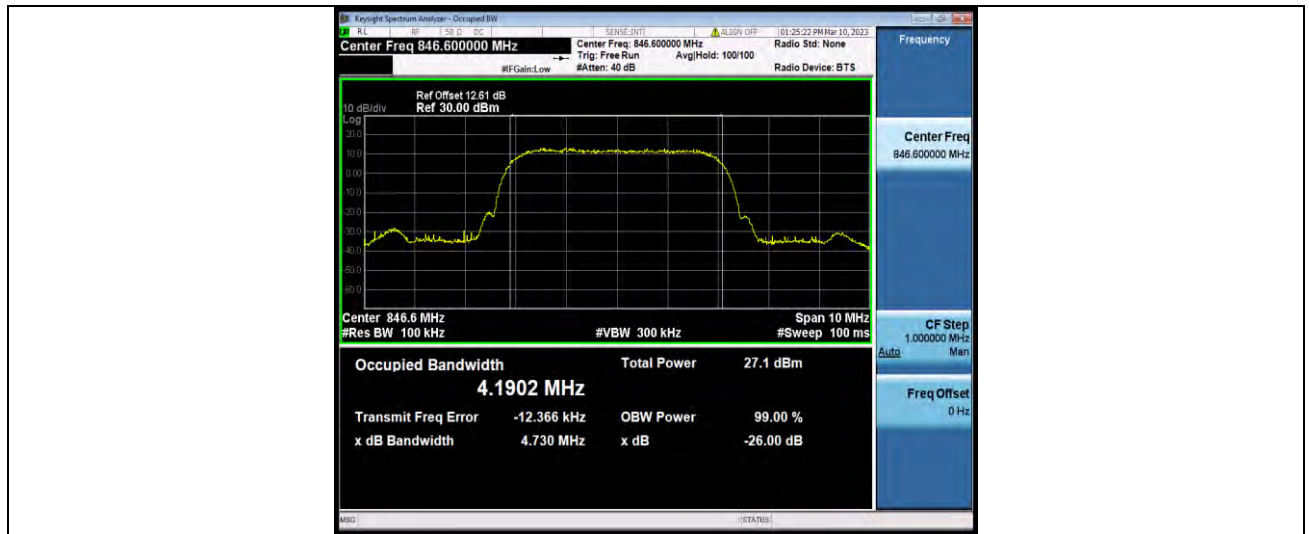
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band5	4132	4.1945	4.726	---	PASS
Band5	4182	4.1849	4.718	---	PASS
Band5	4233	4.1902	4.730	---	PASS

Test Graphs





BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.87	-27.32	-13	PASS
Band5	4233	849.14	-27.01	-13	PASS

Test Graphs

