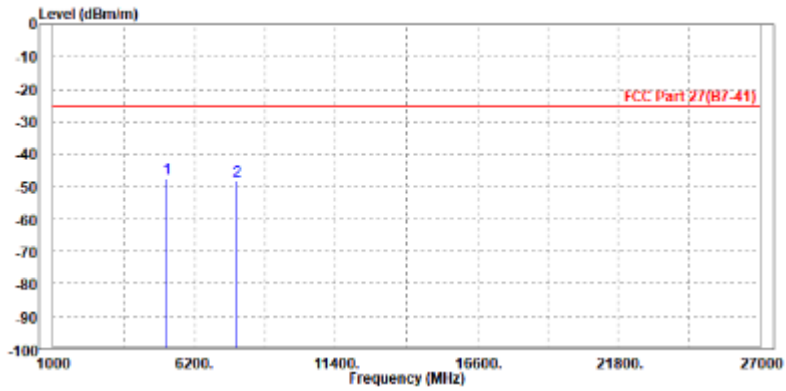




Test Report No.: W7L-P21080006RF12

MODE	TX channel 40620	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			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5186.000	-47.71	-57.54	-25.00	-22.71	9.83	Peak	Vertical
2	7779.000	-48.22	-61.07	-25.00	-23.22	12.85	Peak	Vertical





BUREAU VERITAS

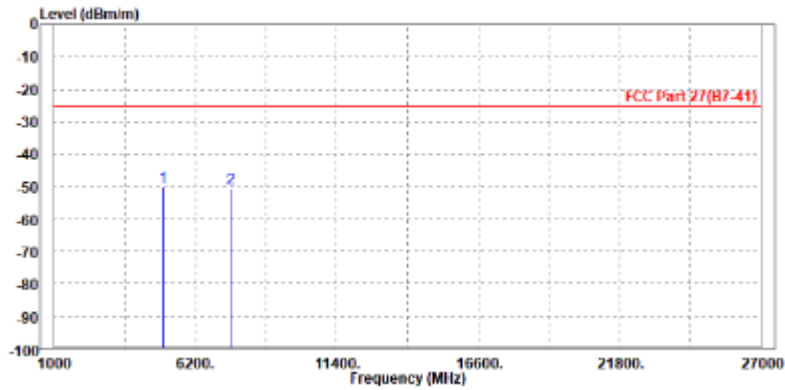
Test Report No.: W7L-P21080006RF12

CHANNEL BANDWIDTH: 10MHz / QPSK

CH 39700

MODE	TX channel 39700	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			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5004.000	-50.16	-58.70	-25.00	-25.16	8.54	Peak	Horizontal
2	7503.000	-50.41	-61.77	-25.00	-25.41	11.36	Peak	Horizontal

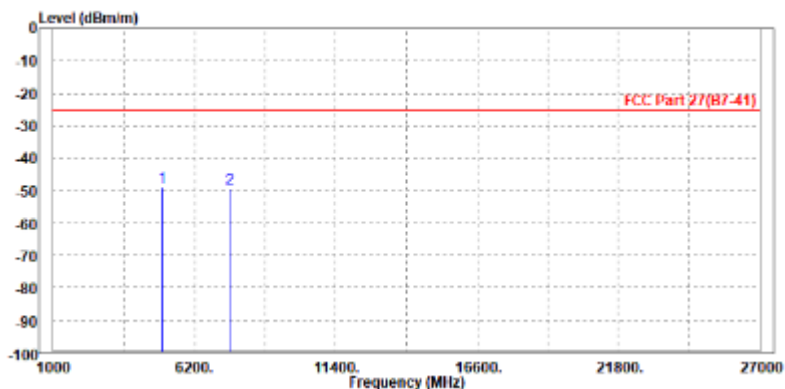




Test Report No.: W7L-P21080006RF12

MODE	TX channel 39700	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			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5004.000	-48.87	-58.77	-25.00	-23.87	9.90	Peak	Vertical
2	7503.000	-49.41	-62.15	-25.00	-24.41	12.74	Peak	Vertical



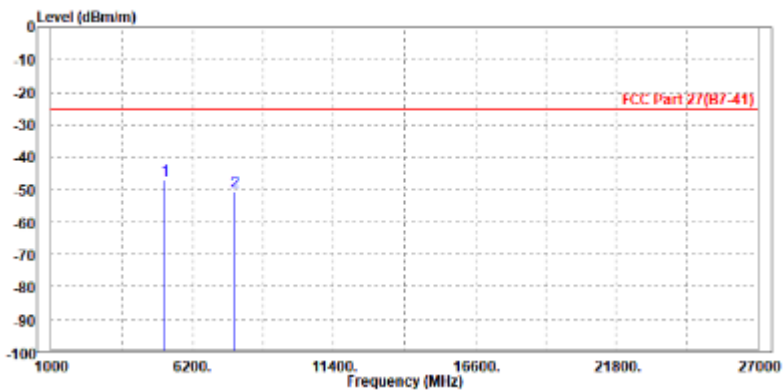


Test Report No.: W7L-P21080006RF12

CH40620

MODE	TX channel 40620	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			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5186.000	-47.18	-56.26	-25.00	-22.18	9.08	Peak	Horizontal
2	7779.000	-50.69	-62.16	-25.00	-25.69	11.47	Peak	Horizontal

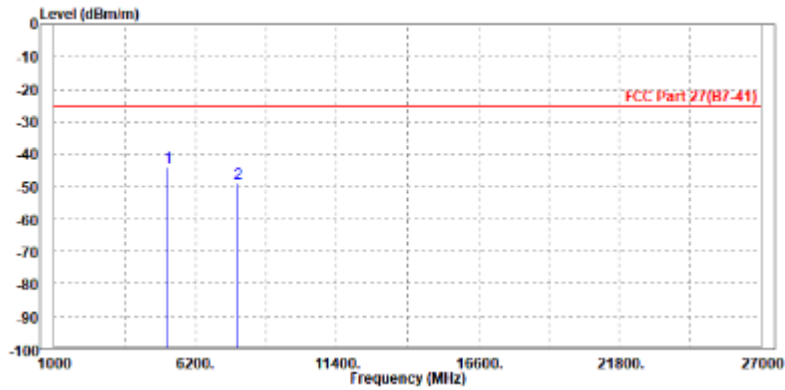




Test Report No.: W7L-P21080006RF12

MODE	TX channel 40620	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			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5186.000	-43.95	-53.78	-25.00	-18.95	9.83	Peak	Vertical
2	7779.000	-48.88	-61.73	-25.00	-23.88	12.85	Peak	Vertical



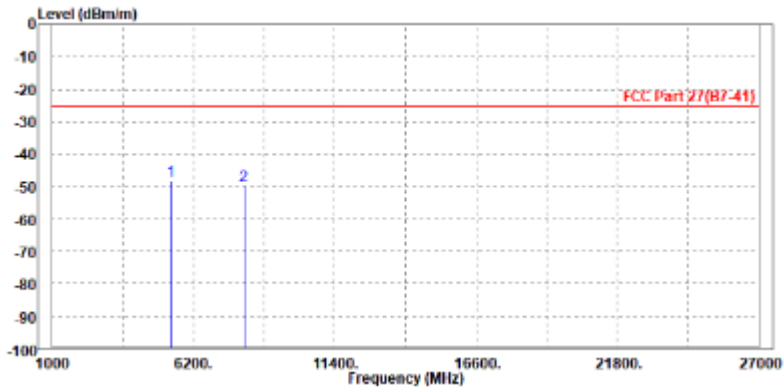


Test Report No.: W7L-P21080006RF12

CH41540

MODE	TX channel 41540	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			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5368.000	-48.47	-58.10	-25.00	-23.47	9.63	Peak	Horizontal
2	8055.000	-49.95	-61.56	-25.00	-24.95	11.61	Peak	Horizontal

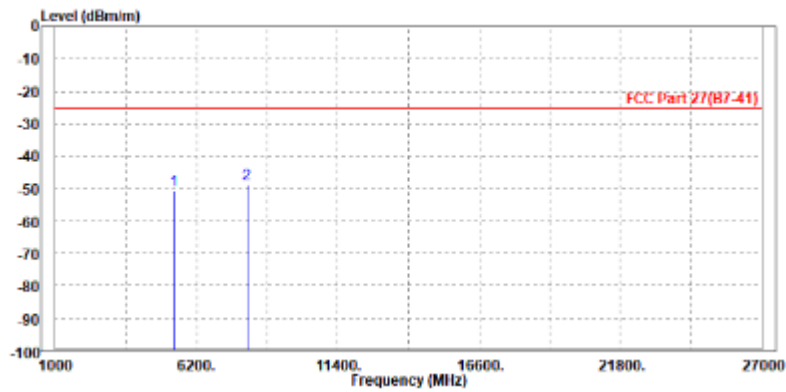




Test Report No.: W7L-P21080006RF12

MODE	TX channel 41540	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			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	5368.000	-50.55	-60.31	-25.00	-25.55	9.76	Peak	Vertical
2 PP	8055.000	-48.68	-61.74	-25.00	-23.68	13.06	Peak	Vertical





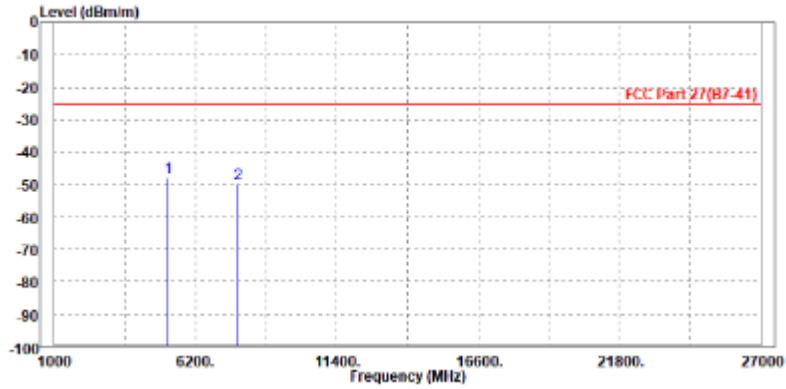
**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF12

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 40620	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			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 5186.000	-47.77	-56.85	-25.00	-22.77	9.88	Peak	Horizontal
2	7779.000	-49.76	-61.23	-25.00	-24.76	11.47	Peak	Horizontal



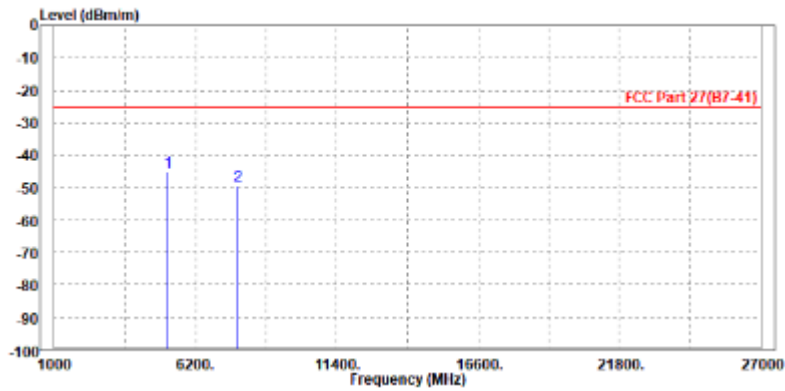


**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF12

MODE	TX channel 40620	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			

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 5186.000	-45.26	-55.09	-25.00	-20.26	9.83	Peak	Vertical
2 7779.000	-49.56	-62.41	-25.00	-24.56	12.85	Peak	Vertical



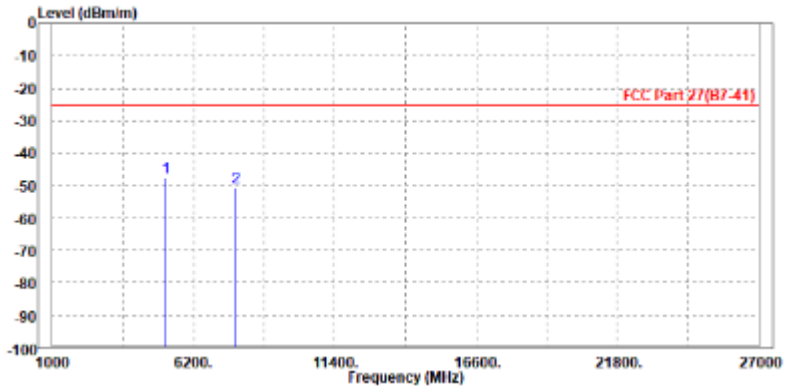


Test Report No.: W7L-P21080006RF12

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 40620	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			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	5186.000	-47.53	-56.61	-25.00	-22.53	9.08	Peak	Horizontal
2	7779.000	-50.66	-62.13	-25.00	-25.66	11.47	Peak	Horizontal



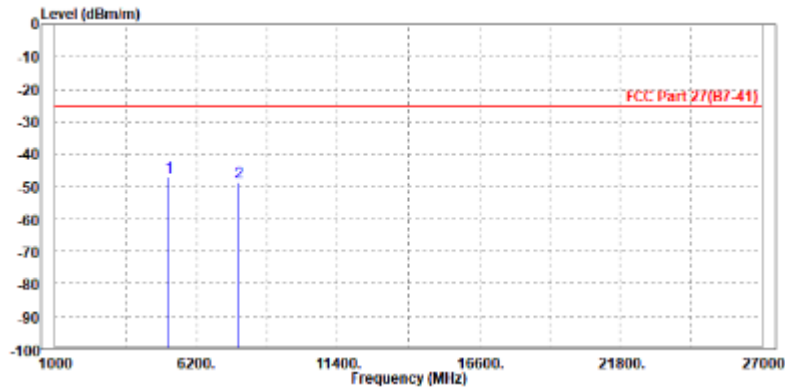


**BUREAU
VERITAS**

Test Report No.: W7L-P21080006RF12

MODE	TX channel 40620	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			

	Read	Limit	Over				
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 5186.000	-47.07	-56.90	-25.00	-22.07	9.83	Peak	Vertical
2 7779.000	-48.82	-61.67	-25.00	-23.82	12.85	Peak	Vertical

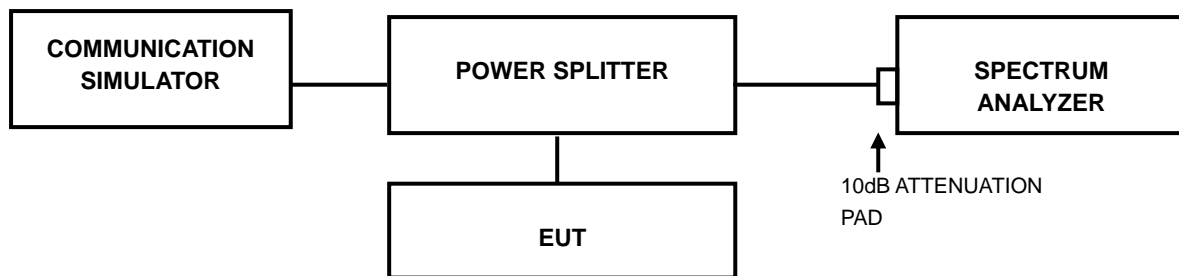


3.7 PEAK TO AVERAGE RATIO

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%.

3.7.4 TEST RESULTS

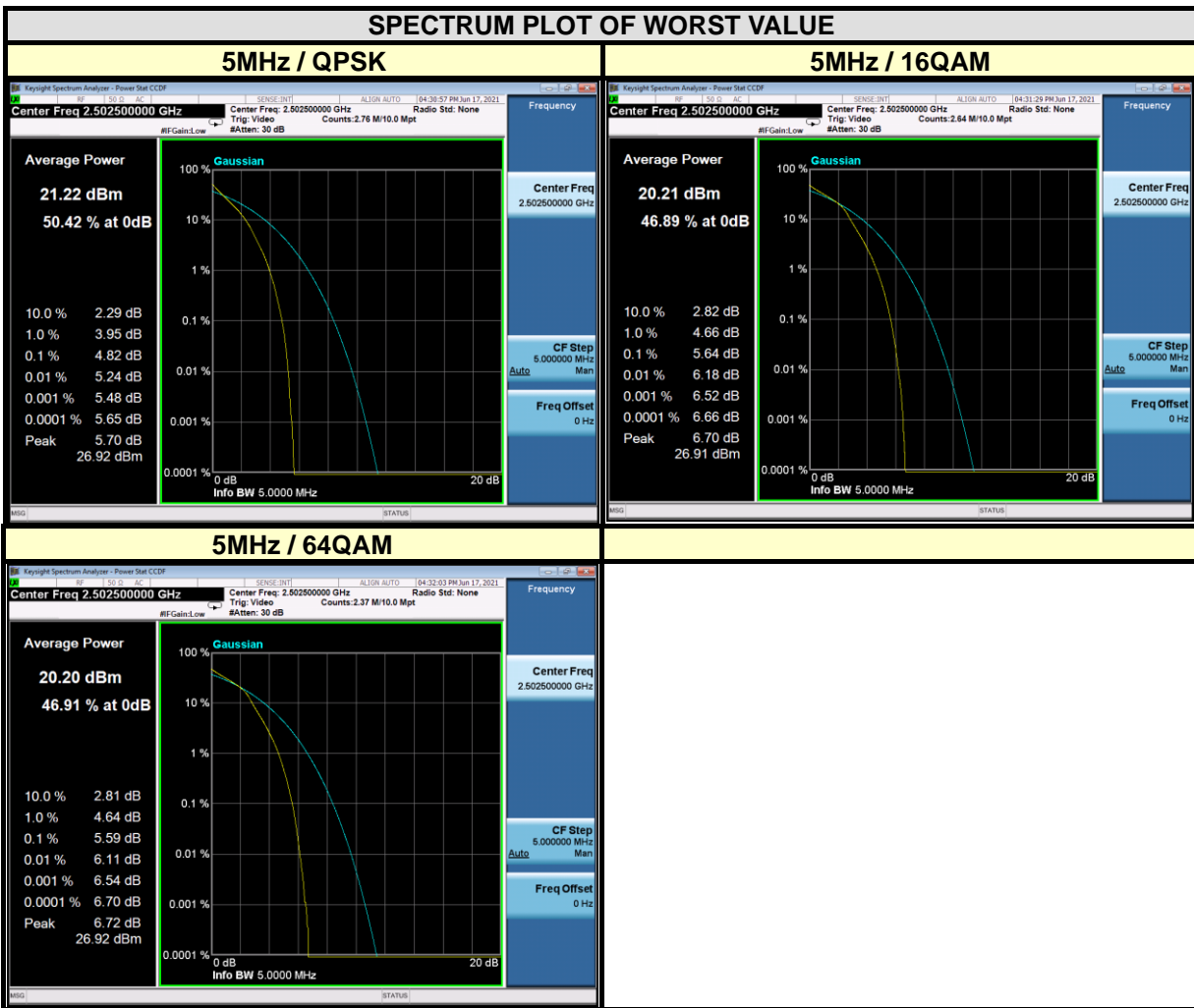
WCDMA BAND IV

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
1312	1712.40	2.75
1413	1732.60	2.81
1513	1752.60	2.80



LTE BAND 7

CHANNEL BANDWIDTH: 5MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
20775	2502.5	4.82	5.64	5.59
21100	2535	4.05	5.01	5.00
21425	2567.5	4.19	5.16	5.16

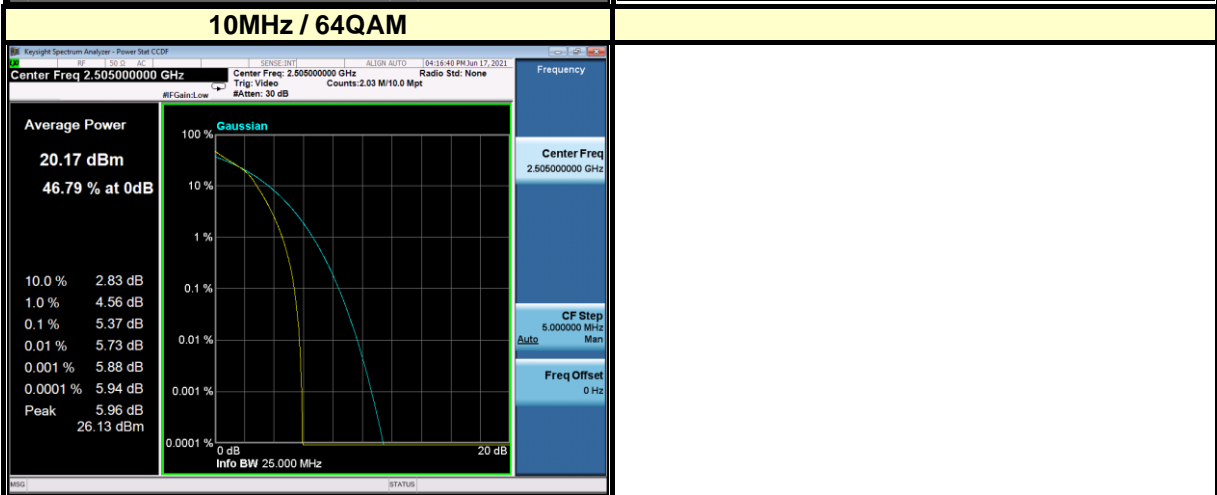
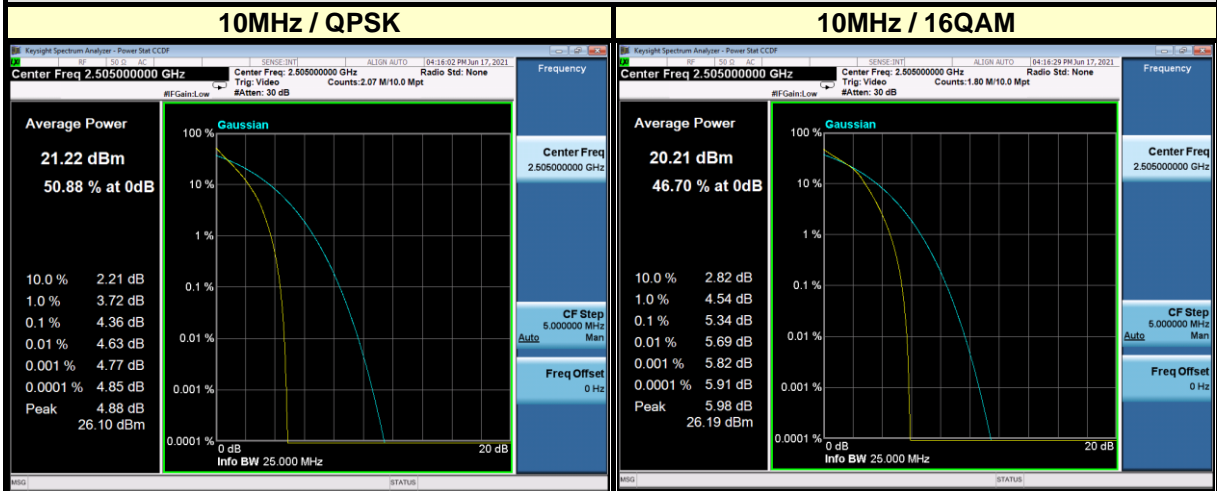




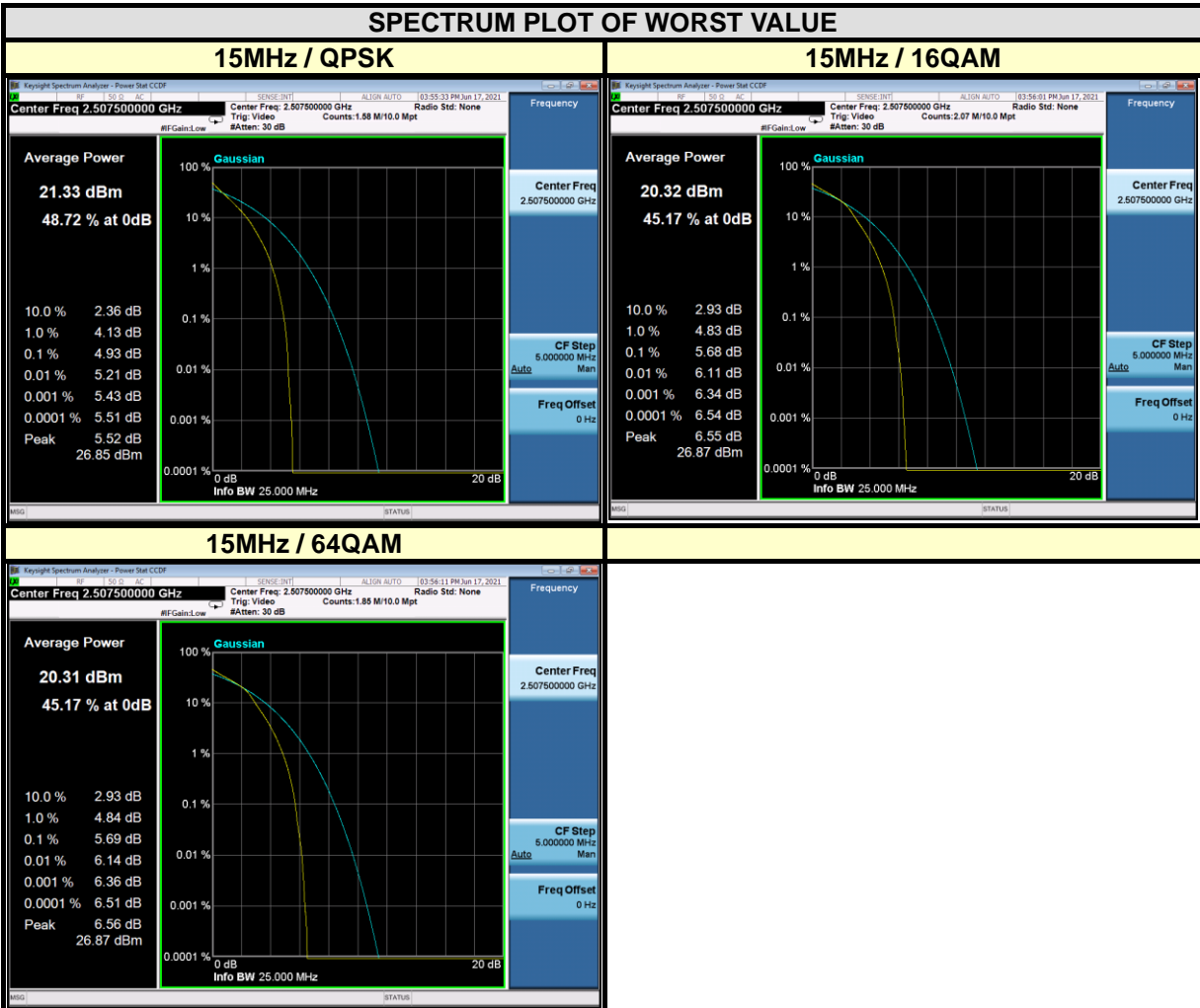
Test Report No.: W7L-P21080006RF12

CHANNEL BANDWIDTH: 10MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
20800	2505	4.36	5.34	5.37
21100	2535	3.08	4.63	4.58
21400	2565	3.56	4.82	4.78

SPECTRUM PLOT OF WORST VALUE



CHANNEL BANDWIDTH: 15MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
20825	2507.5	4.93	5.68	5.69
21100	2535	4.27	5.19	5.20
21375	2562.5	4.41	5.37	5.39

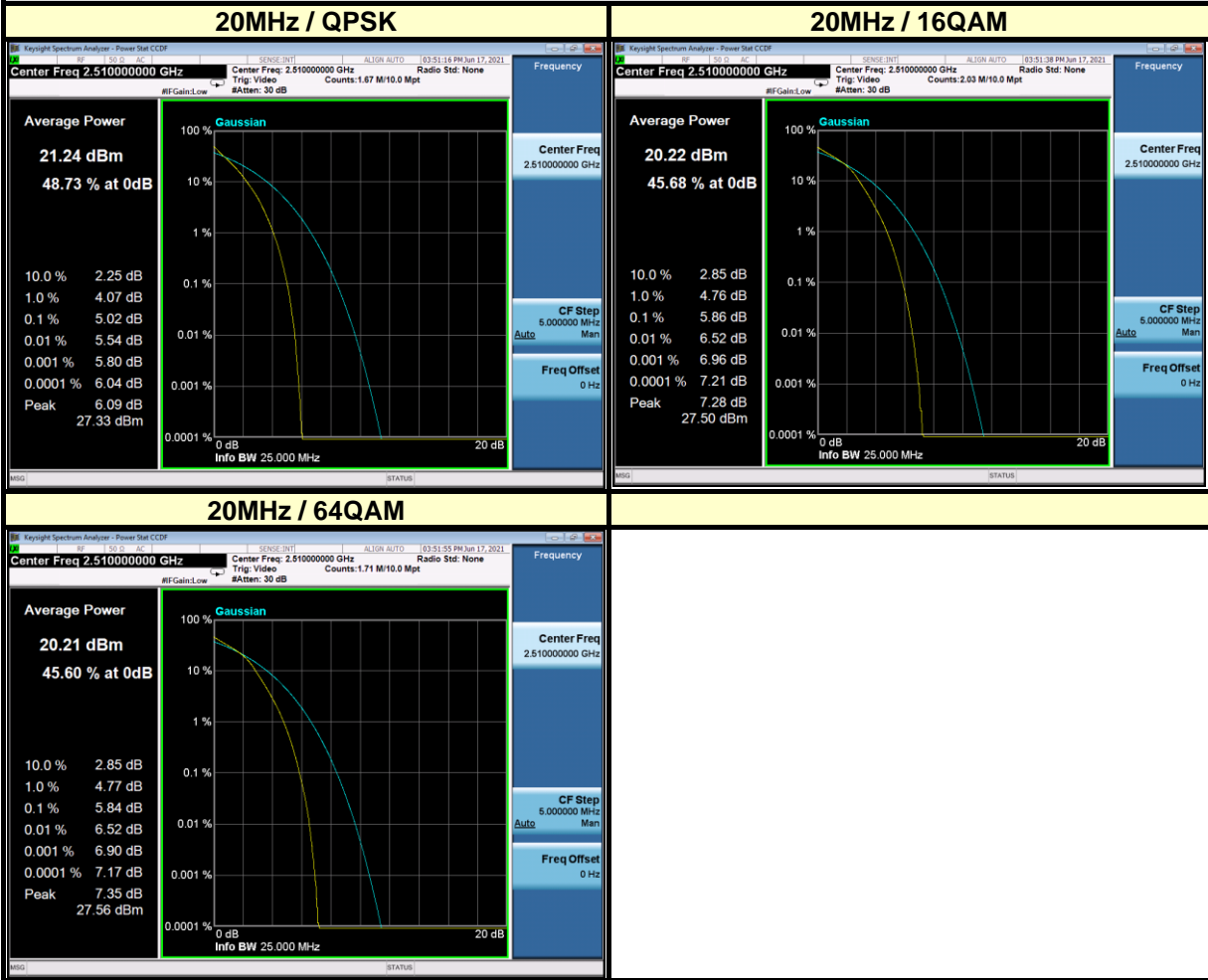




Test Report No.: W7L-P21080006RF12

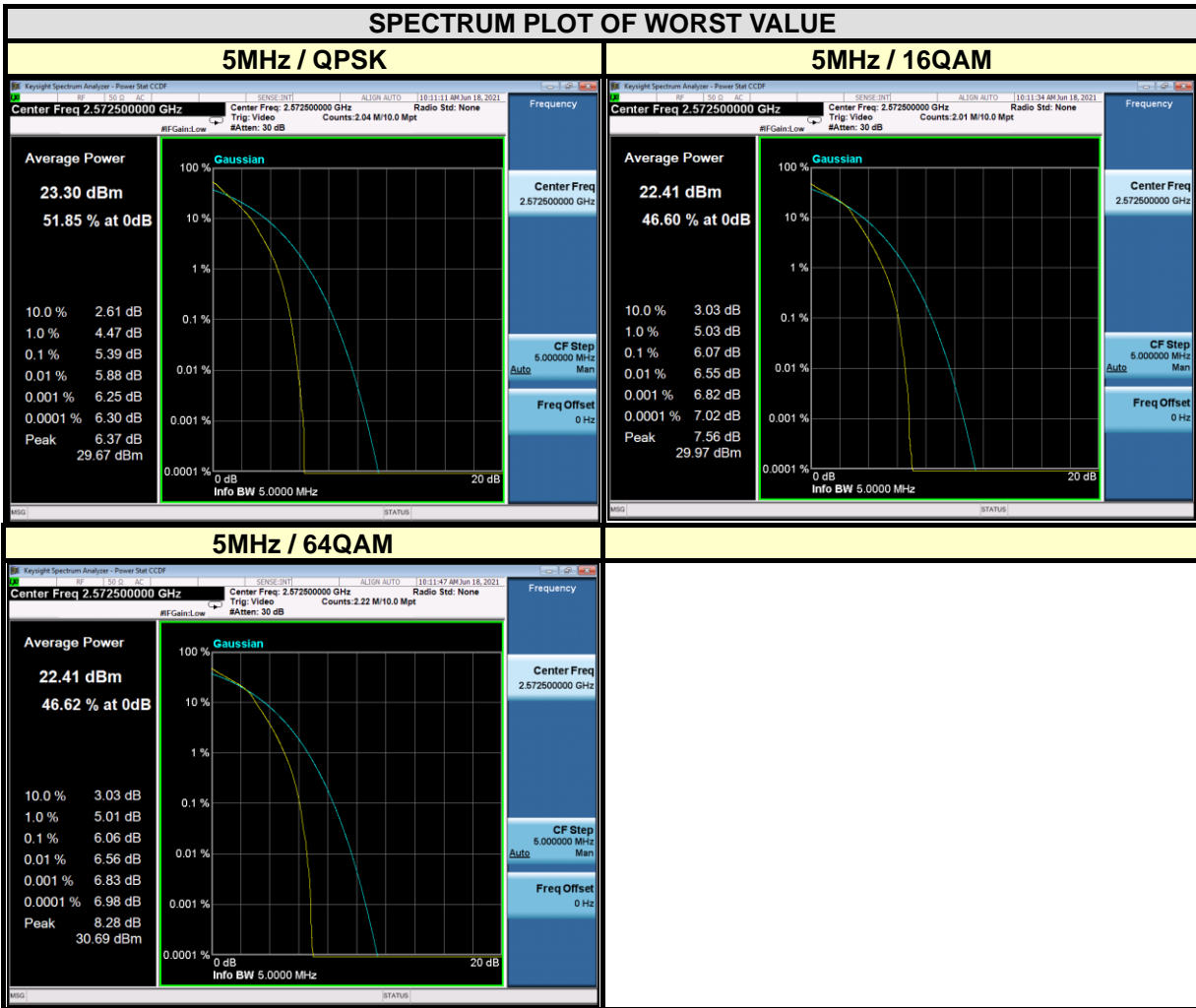
CHANNEL BANDWIDTH: 20MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
20850	2510	5.02	5.86	5.84
21100	2535	4.63	5.50	5.49
21350	2560	4.68	5.57	5.57

SPECTRUM PLOT OF WORST VALUE



LTE BAND 38

CHANNEL BANDWIDTH: 5MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
37775	2572.5	5.39	6.07	6.06
38000	2595	5.33	5.83	5.80
38225	2617.5	4.96	5.54	5.39

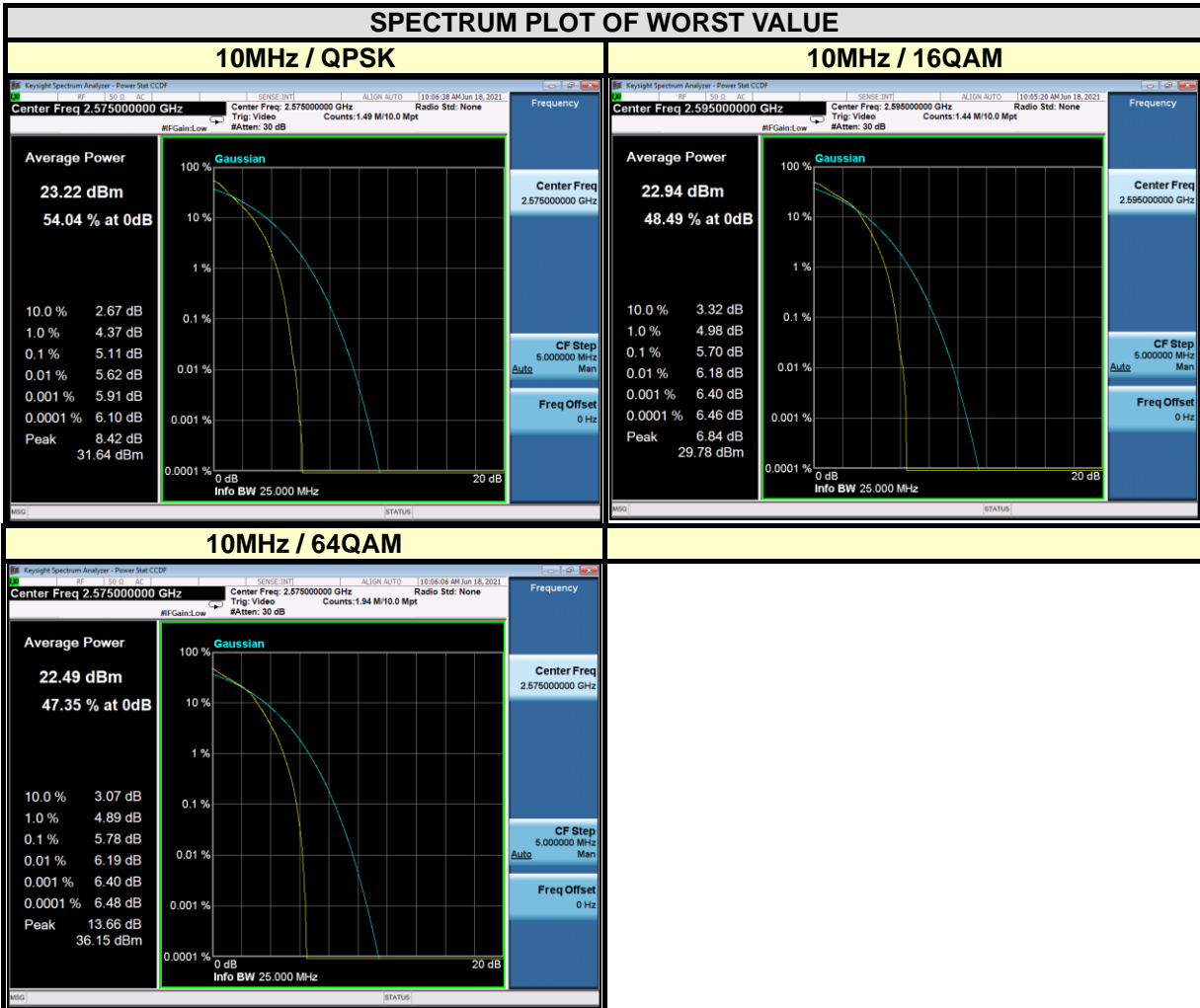




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VERITAS**

Test Report No.: W7L-P21080006RF12

CHANNEL BANDWIDTH: 10MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
37800	2575	5.11	5.63	5.78
38000	2595	4.28	5.70	5.59
38200	2615	4.17	5.03	5.36



CHANNEL BANDWIDTH: 15MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
37825	2577.5	5.26	5.86	5.82
38000	2595	4.85	5.83	5.64
38175	2612.5	4.96	5.64	5.57

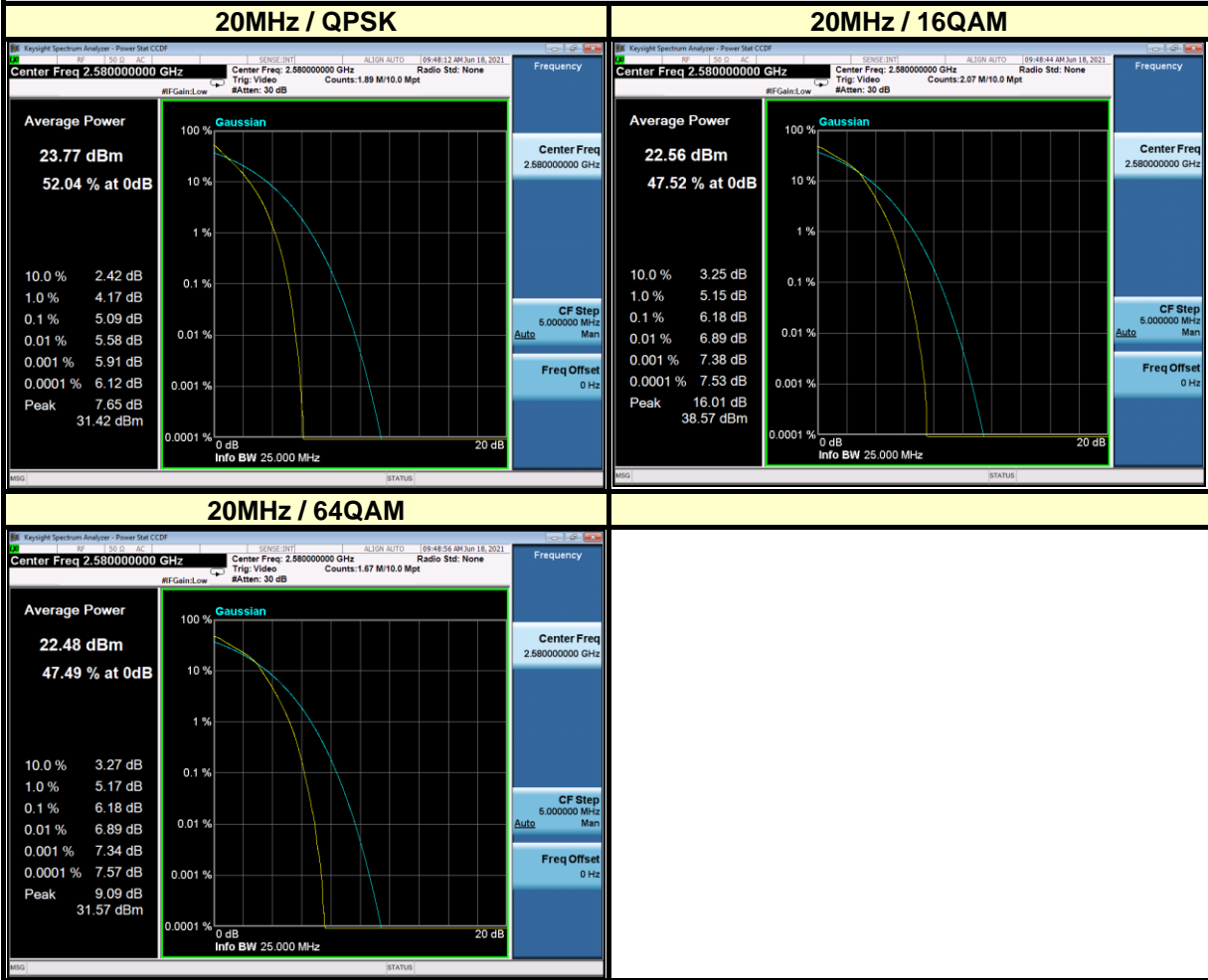




Test Report No.: W7L-P21080006RF12

CHANNEL BANDWIDTH: 20MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
37850	2580	5.09	6.18	6.18
38000	2595	4.86	5.72	5.63
38150	2610	4.87	5.95	5.69

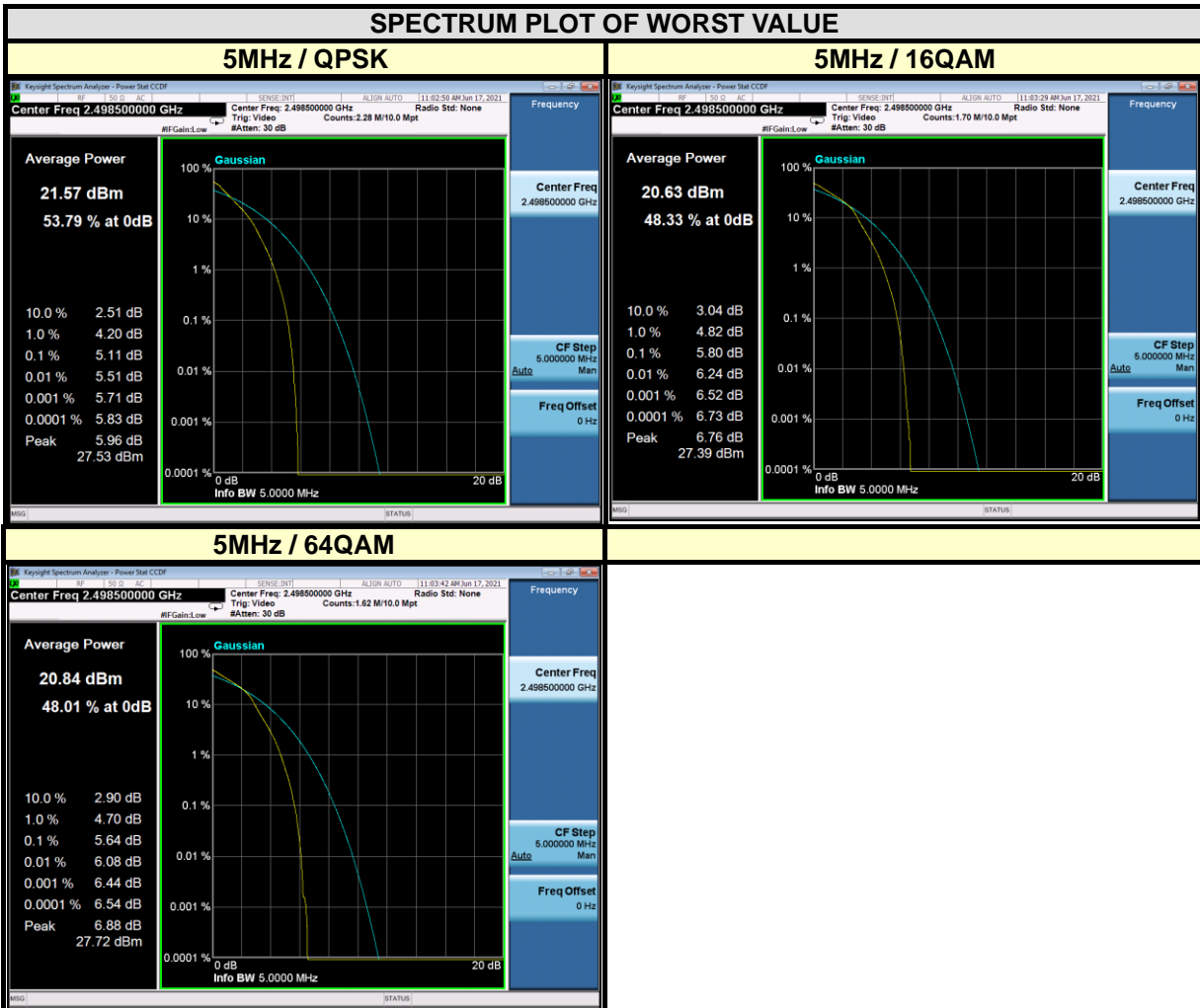
SPECTRUM PLOT OF WORST VALUE





LTE BAND 41

CHANNEL BANDWIDTH: 5MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
39675	2498.5	5.11	5.80	5.64
40620	2593	5.08	5.65	5.60
41565	2687.5	3.67	4.27	4.35





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VERITAS**

Test Report No.: W7L-P21080006RF12

CHANNEL BANDWIDTH: 10MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
39700	2501	4.74	5.99	5.56
40620	2593	4.17	5.53	5.64
41540	2685	2.66	3.40	3.54





Test Report No.: W7L-P21080006RF12

CHANNEL BANDWIDTH: 15MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
39725	2503.5	5.27	5.81	5.81
40620	2593	5.14	5.58	5.62
41515	2682.5	3.44	4.52	4.51

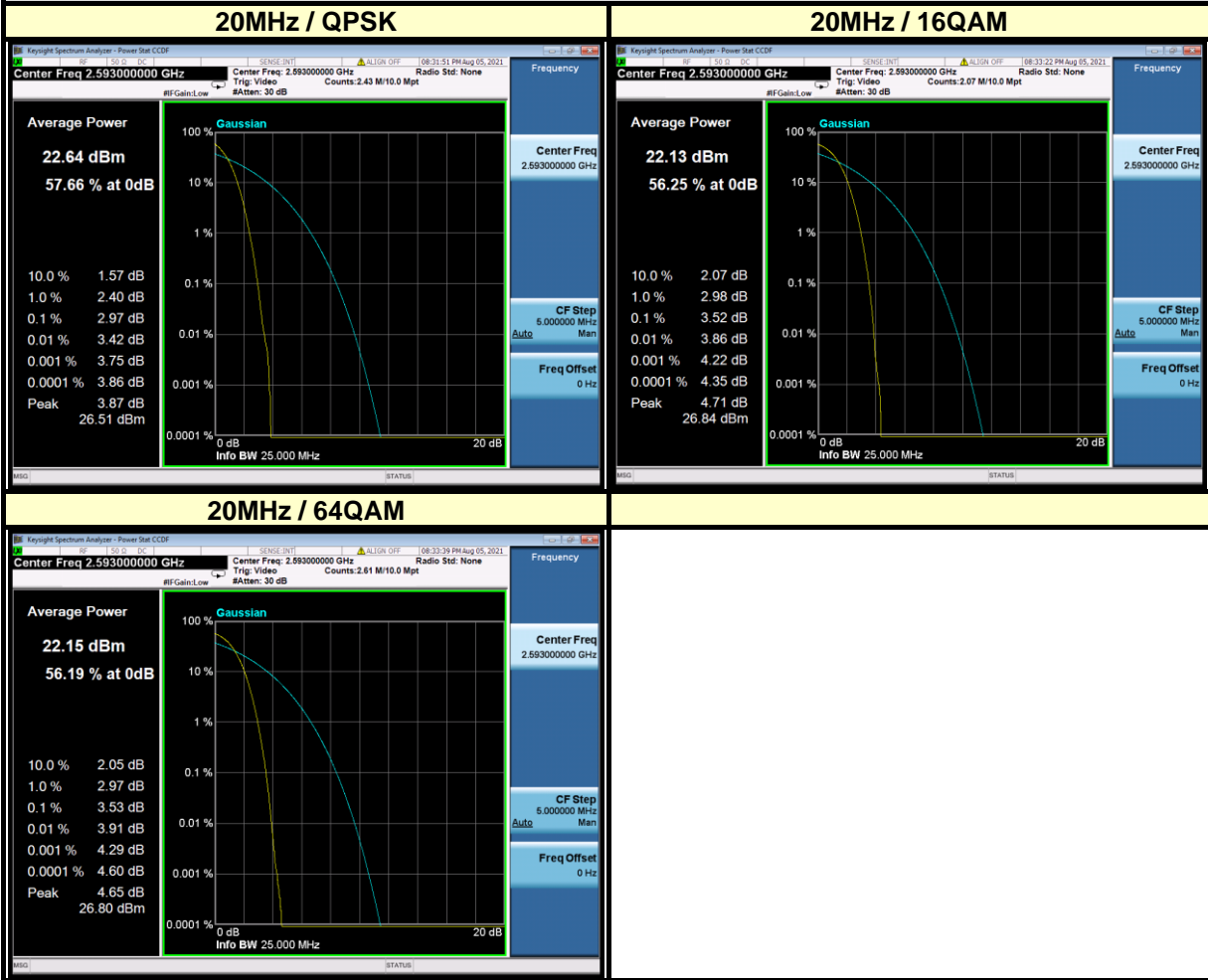




Test Report No.: W7L-P21080006RF12

CHANNEL BANDWIDTH: 20MHz				
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)		
		QPSK	16QAM	64QAM
39750	2506	3.31	3.78	3.86
40620	2593	4.95	5.72	5.81
41490	2680	3.22	3.95	3.66

SPECTRUM PLOT OF WORST VALUE





Test Report No.: W7L-P21080006RF12

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@cn.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.



Test Report No.: W7L-P21080006RF12

5 APPENDIX A – 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.

---END---