

Appendix for Band 71

Product Name: LTE USB Dongle

Model No: GLU194ST

Appendix A: Average Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band 71	5MHz	QPSK	133147	1RB#0	22.76	PASS
Band 71	5MHz	QPSK	133147	1RB#12	22.23	PASS
Band 71	5MHz	QPSK	133147	1RB#24	23.08	PASS
Band 71	5MHz	QPSK	133147	12RB#0	21.40	PASS
Band 71	5MHz	QPSK	133147	12RB#6	21.32	PASS
Band 71	5MHz	QPSK	133147	12RB#13	21.54	PASS
Band 71	5MHz	QPSK	133147	25RB#0	21.59	PASS
Band 71	5MHz	QPSK	133297	1RB#0	22.63	PASS
Band 71	5MHz	QPSK	133297	1RB#12	23.13	PASS
Band 71	5MHz	QPSK	133297	1RB#24	23.30	PASS
Band 71	5MHz	QPSK	133297	12RB#0	21.65	PASS
Band 71	5MHz	QPSK	133297	12RB#6	21.62	PASS
Band 71	5MHz	QPSK	133297	12RB#13	21.96	PASS
Band 71	5MHz	QPSK	133297	25RB#0	21.94	PASS
Band 71	5MHz	QPSK	133447	1RB#0	22.80	PASS
Band 71	5MHz	QPSK	133447	1RB#12	22.83	PASS
Band 71	5MHz	QPSK	133447	1RB#24	22.95	PASS
Band 71	5MHz	QPSK	133447	12RB#0	21.59	PASS
Band 71	5MHz	QPSK	133447	12RB#6	21.71	PASS
Band 71	5MHz	QPSK	133447	12RB#13	21.93	PASS
Band 71	5MHz	QPSK	133447	25RB#0	21.85	PASS
Band 71	5MHz	16QAM	133147	1RB#0	21.24	PASS
Band 71	5MHz	16QAM	133147	1RB#12	21.19	PASS
Band 71	5MHz	16QAM	133147	1RB#24	22.05	PASS
Band 71	5MHz	16QAM	133147	12RB#0	20.46	PASS
Band 71	5MHz	16QAM	133147	12RB#6	20.39	PASS
Band 71	5MHz	16QAM	133147	12RB#13	20.61	PASS
Band 71	5MHz	16QAM	133147	25RB#0	20.69	PASS
Band 71	5MHz	16QAM	133297	1RB#0	21.64	PASS
Band 71	5MHz	16QAM	133297	1RB#12	22.05	PASS
Band 71	5MHz	16QAM	133297	1RB#24	22.18	PASS
Band 71	5MHz	16QAM	133297	12RB#0	20.84	PASS
Band 71	5MHz	16QAM	133297	12RB#6	20.81	PASS
Band 71	5MHz	16QAM	133297	12RB#13	21.16	PASS
Band 71	5MHz	16QAM	133297	25RB#0	21.15	PASS

Band 71	5MHz	16QAM	133447	1RB#0	21.93	PASS
Band 71	5MHz	16QAM	133447	1RB#12	21.96	PASS
Band 71	5MHz	16QAM	133447	1RB#24	22.10	PASS
Band 71	5MHz	16QAM	133447	12RB#0	20.82	PASS
Band 71	5MHz	16QAM	133447	12RB#6	20.79	PASS
Band 71	5MHz	16QAM	133447	12RB#13	21.02	PASS
Band 71	5MHz	16QAM	133447	25RB#0	21.01	PASS
Band 71	10MHz	QPSK	133172	1RB#0	22.69	PASS
Band 71	10MHz	QPSK	133172	1RB#24	22.99	PASS
Band 71	10MHz	QPSK	133172	1RB#49	22.44	PASS
Band 71	10MHz	QPSK	133172	25RB#0	21.57	PASS
Band 71	10MHz	QPSK	133172	25RB#12	21.63	PASS
Band 71	10MHz	QPSK	133172	25RB#25	21.71	PASS
Band 71	10MHz	QPSK	133172	50RB#0	21.71	PASS
Band 71	10MHz	QPSK	133297	1RB#0	22.81	PASS
Band 71	10MHz	QPSK	133297	1RB#24	23.20	PASS
Band 71	10MHz	QPSK	133297	1RB#49	22.79	PASS
Band 71	10MHz	QPSK	133297	25RB#0	22.04	PASS
Band 71	10MHz	QPSK	133297	25RB#12	22.09	PASS
Band 71	10MHz	QPSK	133297	25RB#25	22.13	PASS
Band 71	10MHz	QPSK	133297	50RB#0	22.04	PASS
Band 71	10MHz	QPSK	133422	1RB#0	22.75	PASS
Band 71	10MHz	QPSK	133422	1RB#24	22.91	PASS
Band 71	10MHz	QPSK	133422	1RB#49	22.87	PASS
Band 71	10MHz	QPSK	133422	25RB#0	21.65	PASS
Band 71	10MHz	QPSK	133422	25RB#12	21.67	PASS
Band 71	10MHz	QPSK	133422	25RB#25	21.95	PASS
Band 71	10MHz	QPSK	133422	50RB#0	21.74	PASS
Band 71	10MHz	16QAM	133172	1RB#0	21.27	PASS
Band 71	10MHz	16QAM	133172	1RB#24	21.78	PASS
Band 71	10MHz	16QAM	133172	1RB#49	21.34	PASS
Band 71	10MHz	16QAM	133172	25RB#0	20.90	PASS
Band 71	10MHz	16QAM	133172	25RB#12	20.83	PASS
Band 71	10MHz	16QAM	133172	25RB#25	20.72	PASS
Band 71	10MHz	16QAM	133172	50RB#0	20.88	PASS
Band 71	10MHz	16QAM	133297	1RB#0	21.75	PASS
Band 71	10MHz	16QAM	133297	1RB#24	22.18	PASS
Band 71	10MHz	16QAM	133297	1RB#49	21.46	PASS
Band 71	10MHz	16QAM	133297	25RB#0	20.98	PASS
Band 71	10MHz	16QAM	133297	25RB#12	21.08	PASS
Band 71	10MHz	16QAM	133297	25RB#25	21.39	PASS
Band 71	10MHz	16QAM	133297	50RB#0	21.27	PASS

Band 71	10MHz	16QAM	133422	1RB#0	21.72	PASS
Band 71	10MHz	16QAM	133422	1RB#24	22.00	PASS
Band 71	10MHz	16QAM	133422	1RB#49	21.86	PASS
Band 71	10MHz	16QAM	133422	25RB#0	20.74	PASS
Band 71	10MHz	16QAM	133422	25RB#12	20.73	PASS
Band 71	10MHz	16QAM	133422	25RB#25	21.09	PASS
Band 71	10MHz	16QAM	133422	50RB#0	20.80	PASS
Band 71	15MHz	QPSK	133197	1RB#0	22.40	PASS
Band 71	15MHz	QPSK	133197	1RB#38	22.29	PASS
Band 71	15MHz	QPSK	133197	1RB#74	22.70	PASS
Band 71	15MHz	QPSK	133197	38RB#0	21.82	PASS
Band 71	15MHz	QPSK	133197	38RB#18	21.74	PASS
Band 71	15MHz	QPSK	133197	38RB#37	21.92	PASS
Band 71	15MHz	QPSK	133197	75RB#0	21.60	PASS
Band 71	15MHz	QPSK	133297	1RB#0	22.48	PASS
Band 71	15MHz	QPSK	133297	1RB#38	22.93	PASS
Band 71	15MHz	QPSK	133297	1RB#74	23.13	PASS
Band 71	15MHz	QPSK	133297	38RB#0	21.38	PASS
Band 71	15MHz	QPSK	133297	38RB#18	21.90	PASS
Band 71	15MHz	QPSK	133297	38RB#37	21.89	PASS
Band 71	15MHz	QPSK	133297	75RB#0	21.98	PASS
Band 71	15MHz	QPSK	133397	1RB#0	23.35	PASS
Band 71	15MHz	QPSK	133397	1RB#38	22.78	PASS
Band 71	15MHz	QPSK	133397	1RB#74	23.02	PASS
Band 71	15MHz	QPSK	133397	38RB#0	22.27	PASS
Band 71	15MHz	QPSK	133397	38RB#18	21.88	PASS
Band 71	15MHz	QPSK	133397	38RB#37	22.09	PASS
Band 71	15MHz	QPSK	133397	75RB#0	21.84	PASS
Band 71	15MHz	16QAM	133197	1RB#0	21.34	PASS
Band 71	15MHz	16QAM	133197	1RB#38	21.71	PASS
Band 71	15MHz	16QAM	133197	1RB#74	22.03	PASS
Band 71	15MHz	16QAM	133197	38RB#0	21.79	PASS
Band 71	15MHz	16QAM	133197	38RB#18	21.79	PASS
Band 71	15MHz	16QAM	133197	38RB#37	22.00	PASS
Band 71	15MHz	16QAM	133197	75RB#0	20.74	PASS
Band 71	15MHz	16QAM	133297	1RB#0	21.38	PASS
Band 71	15MHz	16QAM	133297	1RB#38	21.85	PASS
Band 71	15MHz	16QAM	133297	1RB#74	21.90	PASS
Band 71	15MHz	16QAM	133297	38RB#0	21.36	PASS
Band 71	15MHz	16QAM	133297	38RB#18	21.87	PASS
Band 71	15MHz	16QAM	133297	38RB#37	21.92	PASS
Band 71	15MHz	16QAM	133297	75RB#0	20.81	PASS

Band 71	15MHz	16QAM	133397	1RB#0	22.28	PASS
Band 71	15MHz	16QAM	133397	1RB#38	21.90	PASS
Band 71	15MHz	16QAM	133397	1RB#74	22.04	PASS
Band 71	15MHz	16QAM	133397	38RB#0	22.34	PASS
Band 71	15MHz	16QAM	133397	38RB#18	21.96	PASS
Band 71	15MHz	16QAM	133397	38RB#37	22.14	PASS
Band 71	15MHz	16QAM	133397	75RB#0	20.86	PASS
Band 71	20MHz	QPSK	133222	1RB#0	22.62	PASS
Band 71	20MHz	QPSK	133222	1RB#49	22.47	PASS
Band 71	20MHz	QPSK	133222	1RB#99	22.85	PASS
Band 71	20MHz	QPSK	133222	50RB#0	21.55	PASS
Band 71	20MHz	QPSK	133222	50RB#25	21.44	PASS
Band 71	20MHz	QPSK	133222	50RB#50	21.64	PASS
Band 71	20MHz	QPSK	133222	100RB#0	21.71	PASS
Band 71	20MHz	QPSK	133297	1RB#0	22.42	PASS
Band 71	20MHz	QPSK	133297	1RB#49	22.89	PASS
Band 71	20MHz	QPSK	133297	1RB#99	22.63	PASS
Band 71	20MHz	QPSK	133297	50RB#0	21.63	PASS
Band 71	20MHz	QPSK	133297	50RB#25	21.75	PASS
Band 71	20MHz	QPSK	133297	50RB#50	21.93	PASS
Band 71	20MHz	QPSK	133297	100RB#0	21.83	PASS
Band 71	20MHz	QPSK	133372	1RB#0	22.89	PASS
Band 71	20MHz	QPSK	133372	1RB#49	22.67	PASS
Band 71	20MHz	QPSK	133372	1RB#99	23.47	PASS
Band 71	20MHz	QPSK	133372	50RB#0	22.07	PASS
Band 71	20MHz	QPSK	133372	50RB#25	21.87	PASS
Band 71	20MHz	QPSK	133372	50RB#50	21.69	PASS
Band 71	20MHz	QPSK	133372	100RB#0	21.71	PASS
Band 71	20MHz	16QAM	133222	1RB#0	21.51	PASS
Band 71	20MHz	16QAM	133222	1RB#49	21.71	PASS
Band 71	20MHz	16QAM	133222	1RB#99	22.02	PASS
Band 71	20MHz	16QAM	133222	50RB#0	20.68	PASS
Band 71	20MHz	16QAM	133222	50RB#25	20.57	PASS
Band 71	20MHz	16QAM	133222	50RB#50	20.91	PASS
Band 71	20MHz	16QAM	133222	100RB#0	20.83	PASS
Band 71	20MHz	16QAM	133297	1RB#0	21.30	PASS
Band 71	20MHz	16QAM	133297	1RB#49	21.80	PASS
Band 71	20MHz	16QAM	133297	1RB#99	21.43	PASS
Band 71	20MHz	16QAM	133297	50RB#0	20.91	PASS
Band 71	20MHz	16QAM	133297	50RB#25	20.91	PASS
Band 71	20MHz	16QAM	133297	50RB#50	21.21	PASS
Band 71	20MHz	16QAM	133297	100RB#0	20.83	PASS

Band 71	20MHz	16QAM	133372	1RB#0	21.89	PASS
Band 71	20MHz	16QAM	133372	1RB#49	21.64	PASS
Band 71	20MHz	16QAM	133372	1RB#99	22.16	PASS
Band 71	20MHz	16QAM	133372	50RB#0	21.07	PASS
Band 71	20MHz	16QAM	133372	50RB#25	21.10	PASS
Band 71	20MHz	16QAM	133372	50RB#50	20.73	PASS
Band 71	20MHz	16QAM	133372	100RB#0	20.76	PASS

Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

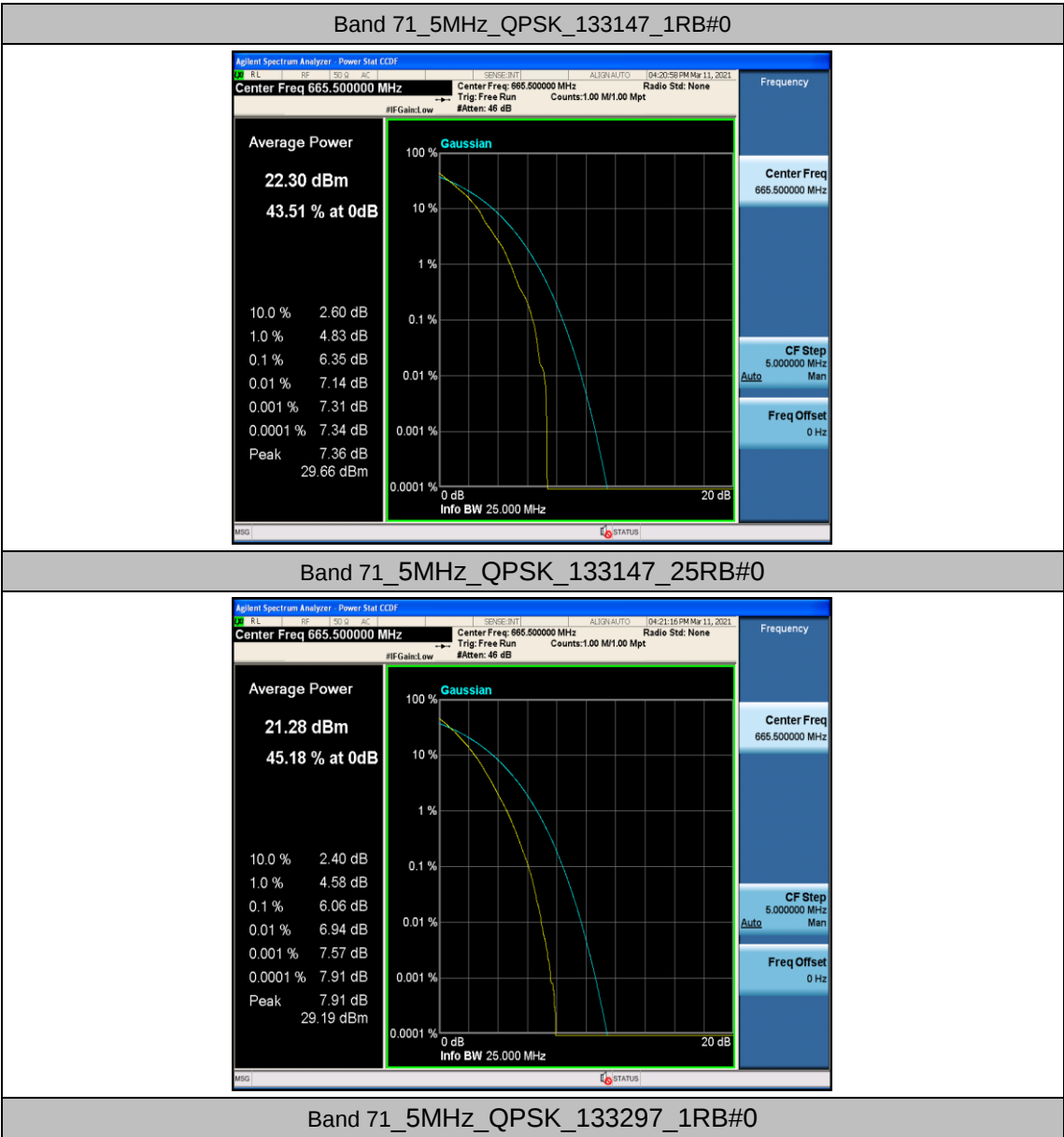
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band 71	5MHz	QPSK	133147	1RB#0	6.35	13	PASS
Band 71	5MHz	QPSK	133147	25RB#0	6.06	13	PASS
Band 71	5MHz	QPSK	133297	1RB#0	6.47	13	PASS
Band 71	5MHz	QPSK	133297	25RB#0	6.13	13	PASS
Band 71	5MHz	QPSK	133447	1RB#0	6.31	13	PASS
Band 71	5MHz	QPSK	133447	25RB#0	6.83	13	PASS
Band 71	5MHz	16QAM	133147	1RB#0	6.68	13	PASS
Band 71	5MHz	16QAM	133147	25RB#0	6.62	13	PASS
Band 71	5MHz	16QAM	133297	1RB#0	6.97	13	PASS
Band 71	5MHz	16QAM	133297	25RB#0	6.54	13	PASS
Band 71	5MHz	16QAM	133447	1RB#0	6.79	13	PASS
Band 71	5MHz	16QAM	133447	25RB#0	7.38	13	PASS
Band 71	10MHz	QPSK	133172	1RB#0	6.28	13	PASS
Band 71	10MHz	QPSK	133172	50RB#0	5.76	13	PASS
Band 71	10MHz	QPSK	133297	1RB#0	6.48	13	PASS
Band 71	10MHz	QPSK	133297	50RB#0	6.05	13	PASS
Band 71	10MHz	QPSK	133422	1RB#0	6.23	13	PASS
Band 71	10MHz	QPSK	133422	50RB#0	6.53	13	PASS
Band 71	10MHz	16QAM	133172	1RB#0	6.83	13	PASS
Band 71	10MHz	16QAM	133172	50RB#0	6.46	13	PASS
Band 71	10MHz	16QAM	133297	1RB#0	7.40	13	PASS
Band 71	10MHz	16QAM	133297	50RB#0	6.61	13	PASS
Band 71	10MHz	16QAM	133422	1RB#0	6.42	13	PASS
Band 71	10MHz	16QAM	133422	50RB#0	6.96	13	PASS
Band 71	15MHz	QPSK	133197	1RB#0	6.48	13	PASS
Band 71	15MHz	QPSK	133197	75RB#0	6.08	13	PASS
Band 71	15MHz	QPSK	133297	1RB#0	5.93	13	PASS
Band 71	15MHz	QPSK	133297	75RB#0	6.24	13	PASS
Band 71	15MHz	QPSK	133397	1RB#0	5.68	13	PASS
Band 71	15MHz	QPSK	133397	75RB#0	6.56	13	PASS
Band 71	15MHz	16QAM	133197	1RB#0	7.02	13	PASS
Band 71	15MHz	16QAM	133197	75RB#0	6.61	13	PASS
Band 71	15MHz	16QAM	133297	1RB#0	7.18	13	PASS
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Band 71	15MHz	16QAM	133397	1RB#0	6.57	13	PASS

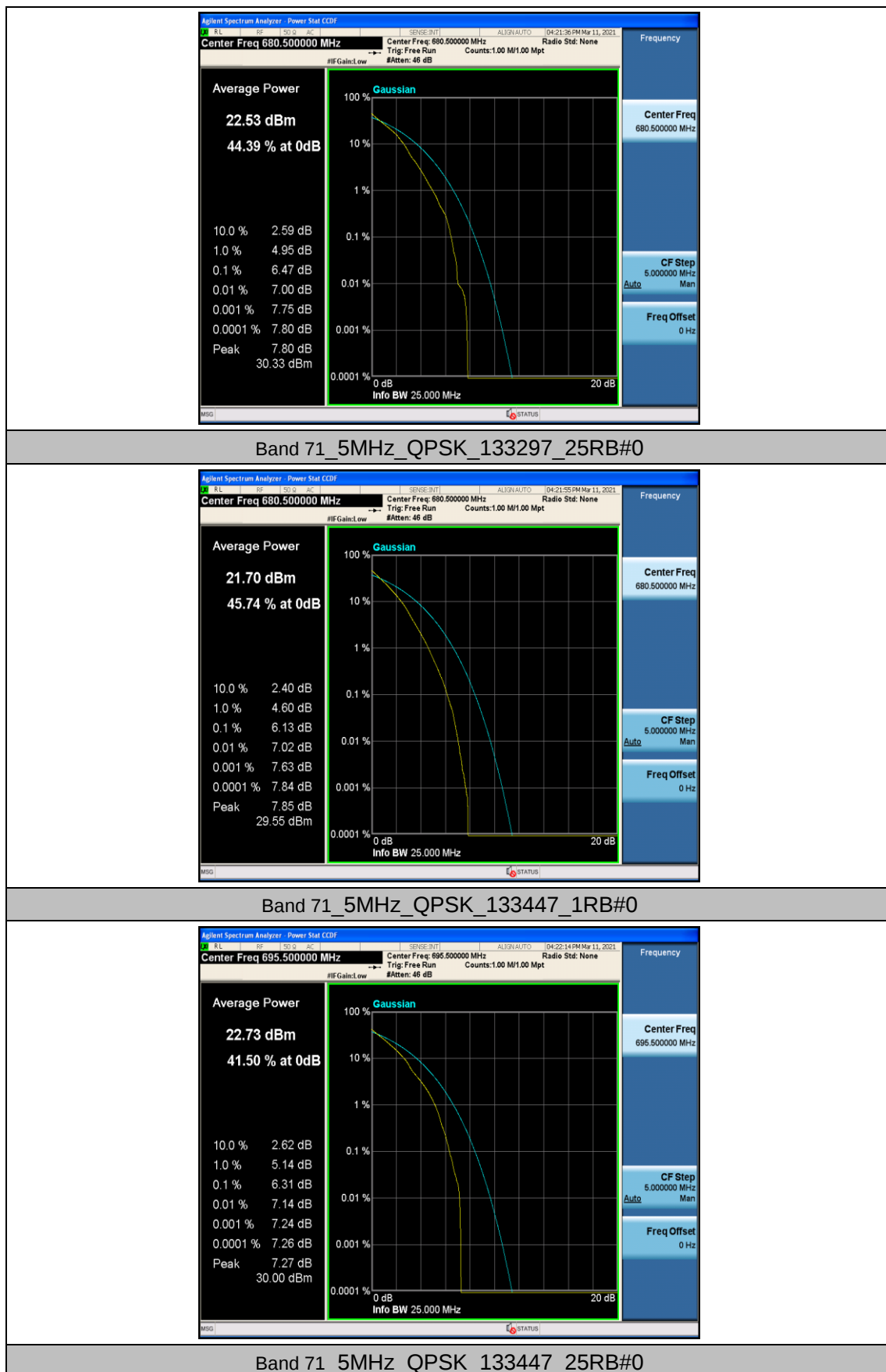
Waltek Testing Group (Shenzhen) Co., Ltd.

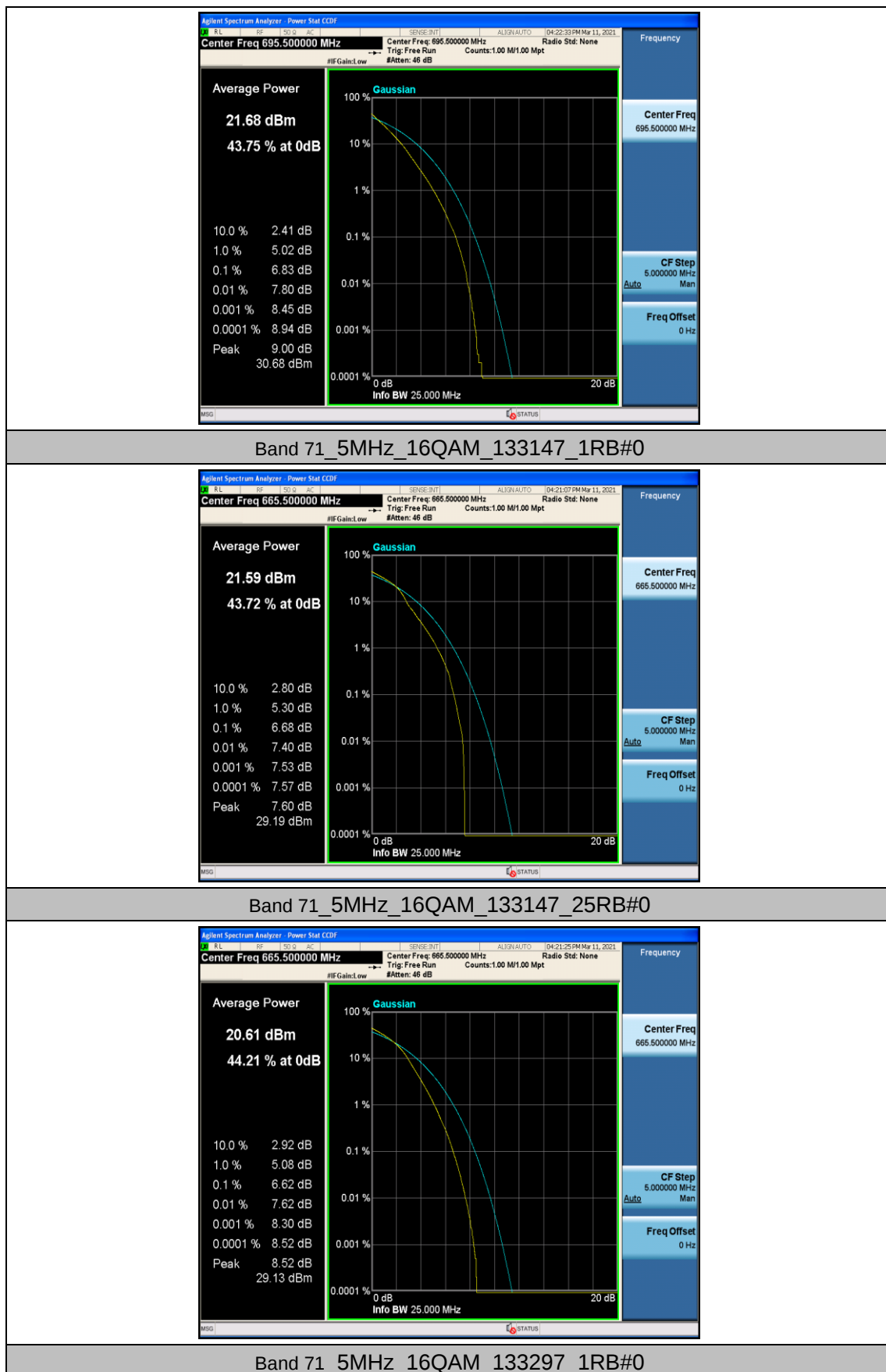
<http://www.semtest.com.cn>

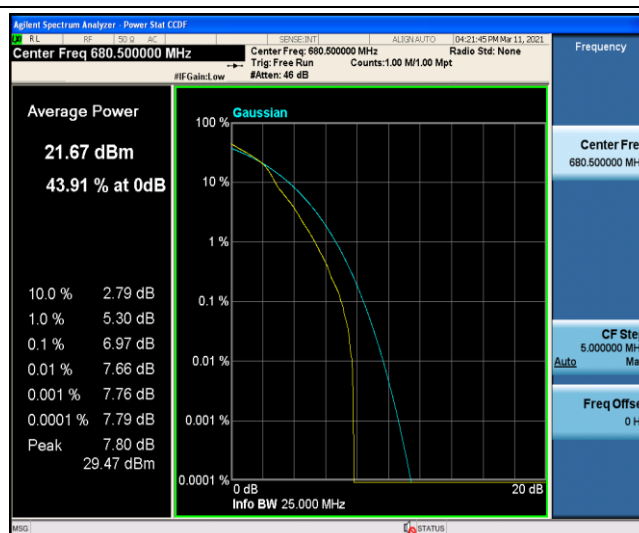
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Band 71	20MHz	QPSK	133297	1RB#0	5.94	13	PASS
Band 71	20MHz	QPSK	133297	100RB#0	5.78	13	PASS
Band 71	20MHz	QPSK	133372	1RB#0	6.01	13	PASS
Band 71	20MHz	QPSK	133372	100RB#0	6.04	13	PASS
Band 71	20MHz	16QAM	133222	1RB#0	7.17	13	PASS
Band 71	20MHz	16QAM	133222	100RB#0	6.61	13	PASS
Band 71	20MHz	16QAM	133297	1RB#0	6.56	13	PASS
Band 71	20MHz	16QAM	133297	100RB#0	6.38	13	PASS
Band 71	20MHz	16QAM	133372	1RB#0	6.45	13	PASS
Band 71	20MHz	16QAM	133372	100RB#0	6.52	13	PASS

Test Graphs

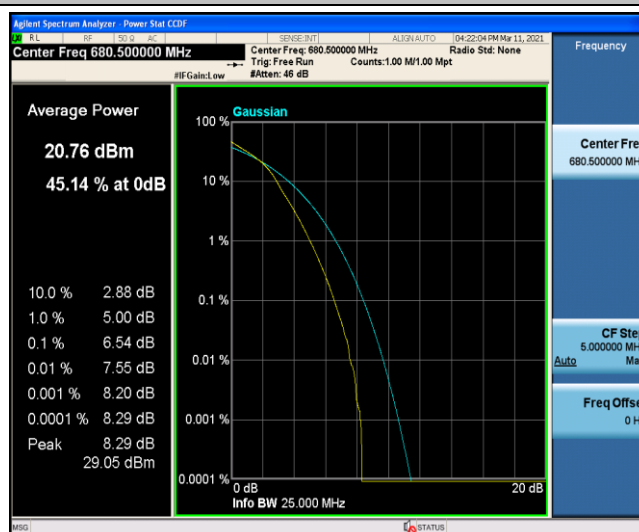




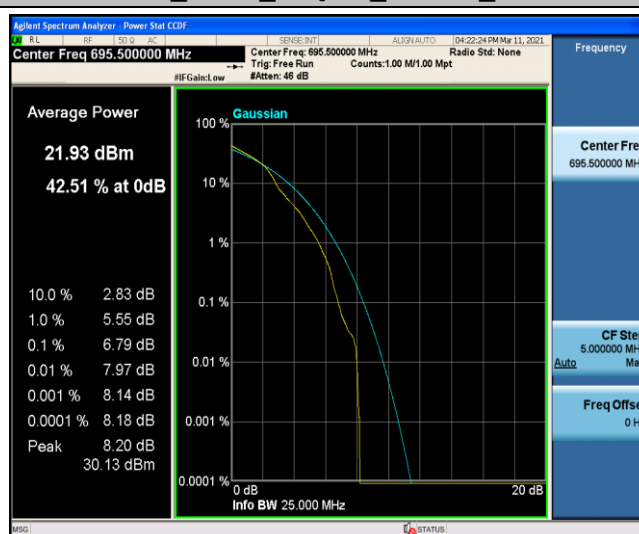




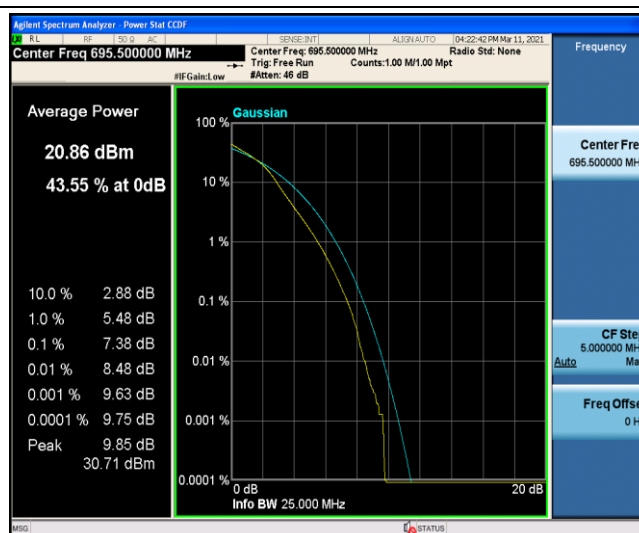
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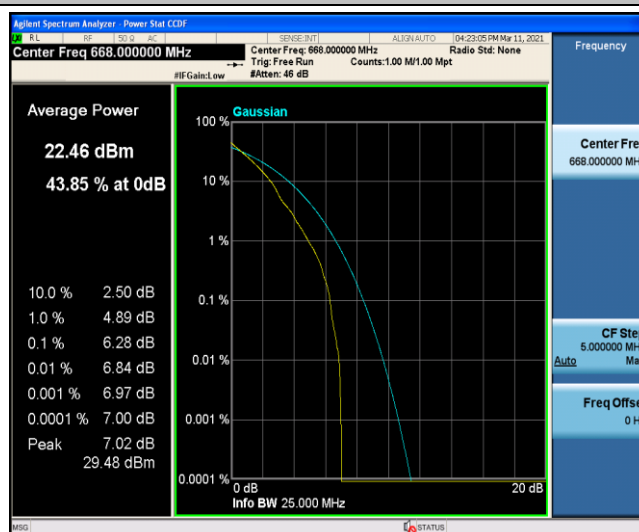
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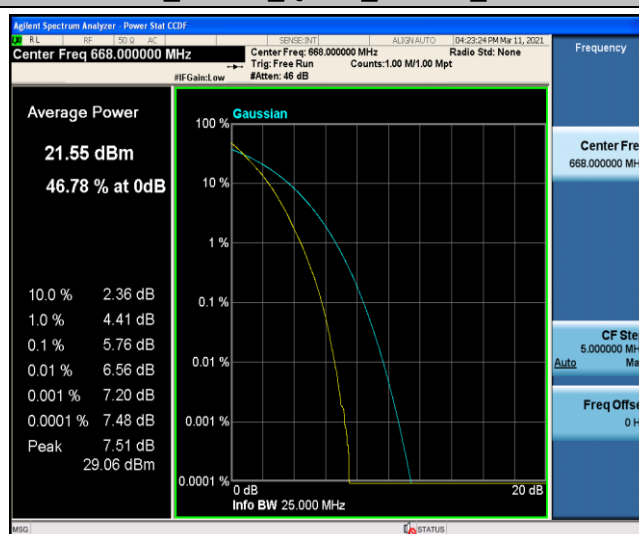
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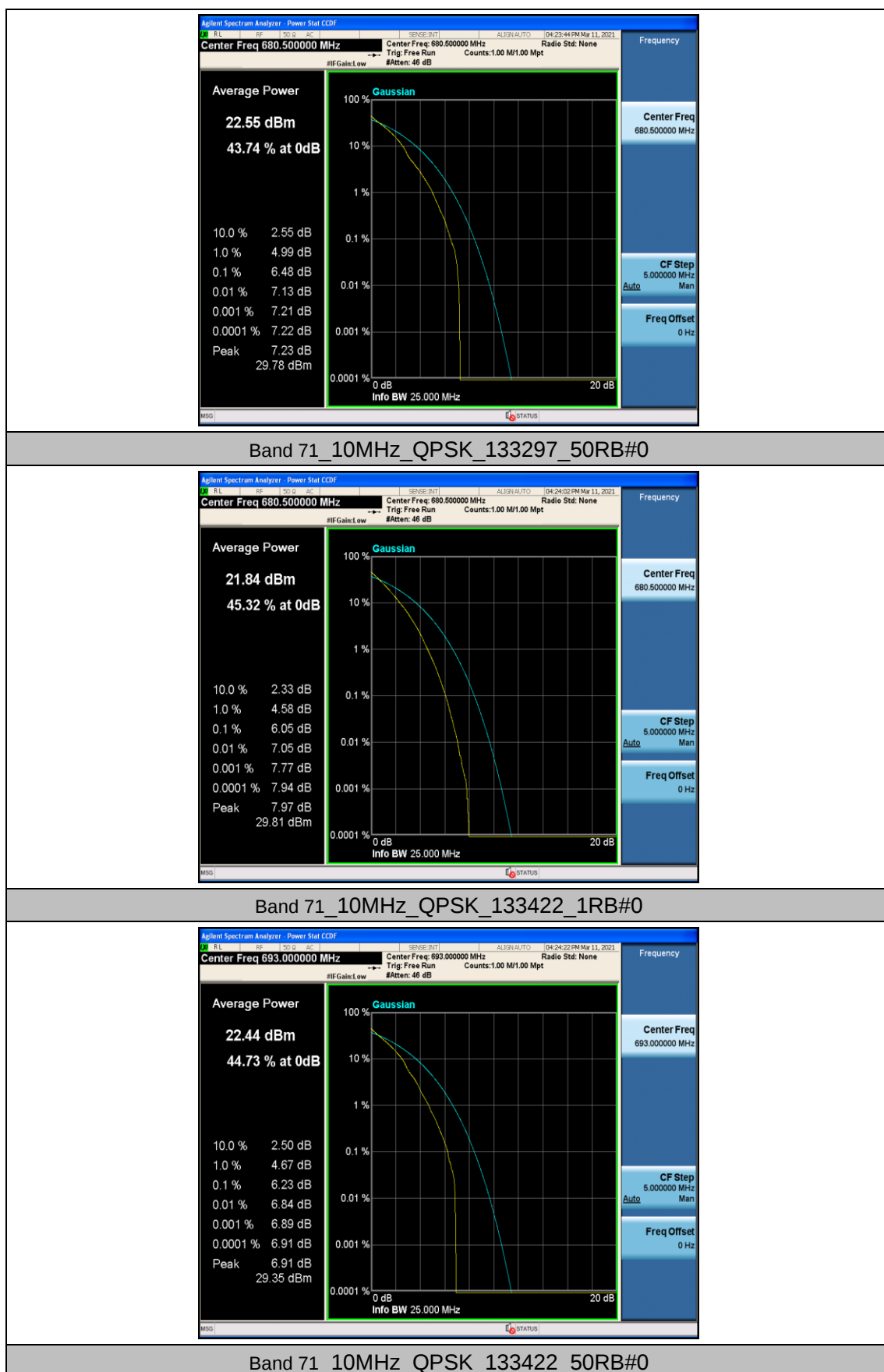
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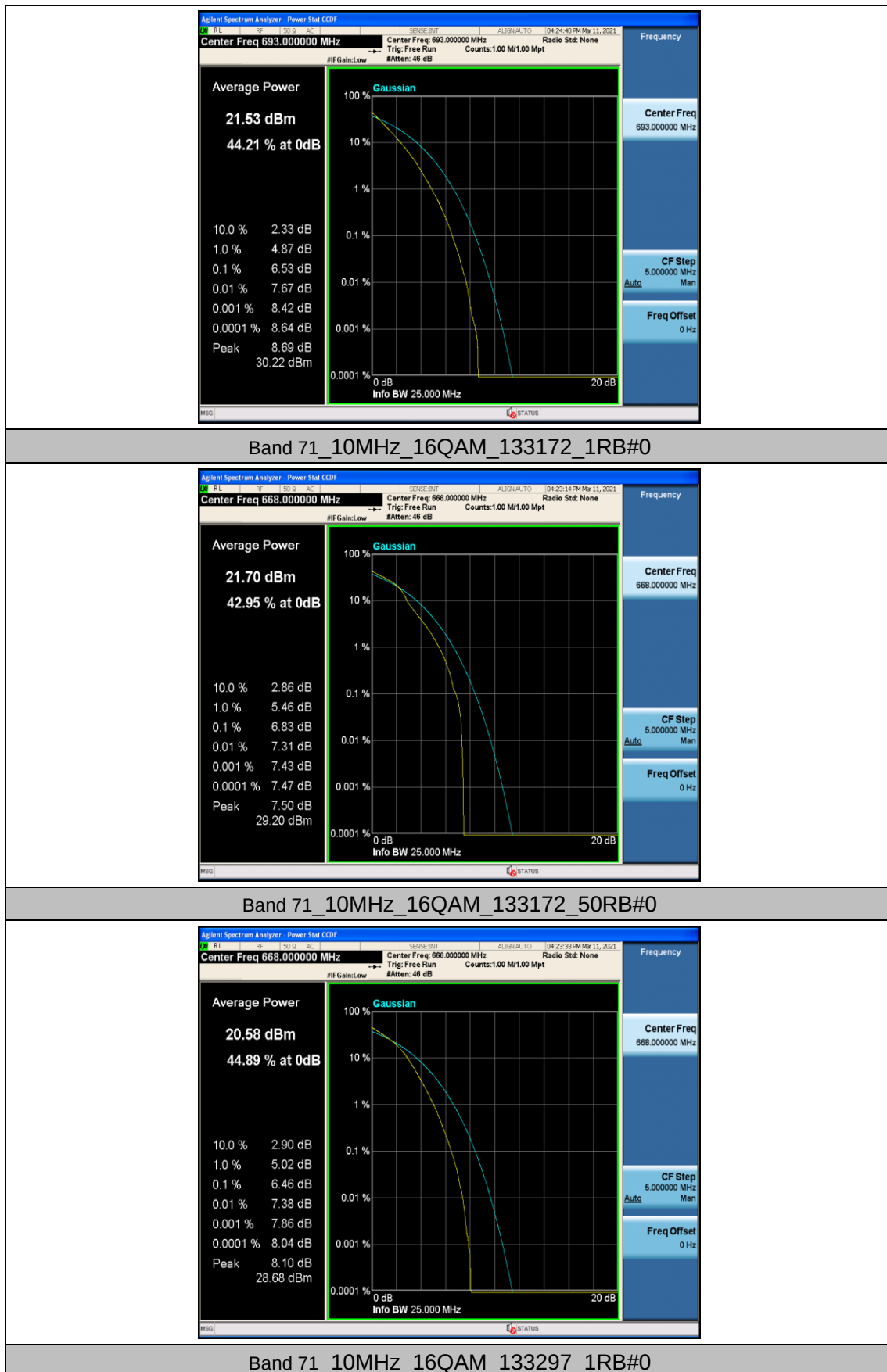


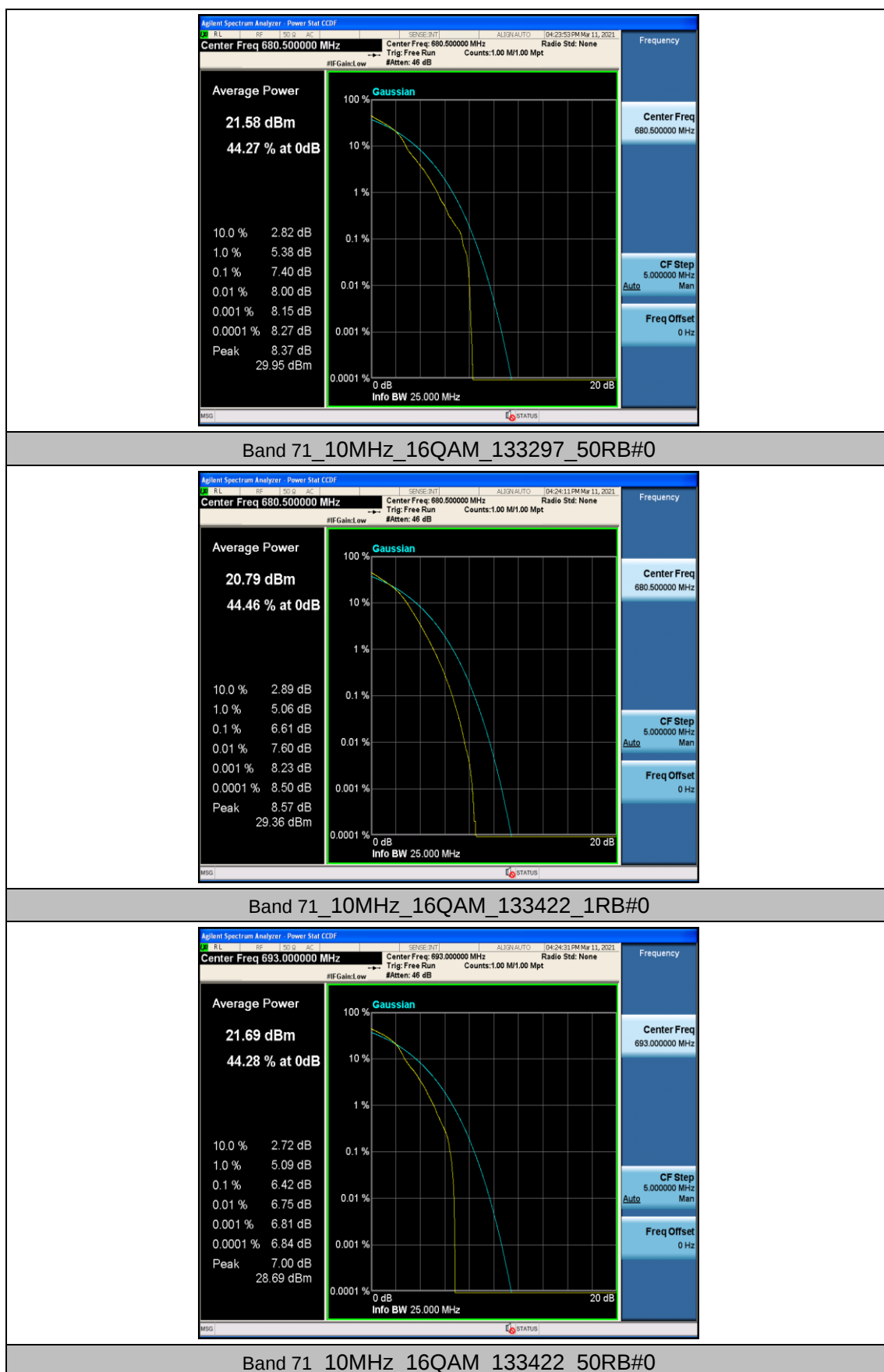
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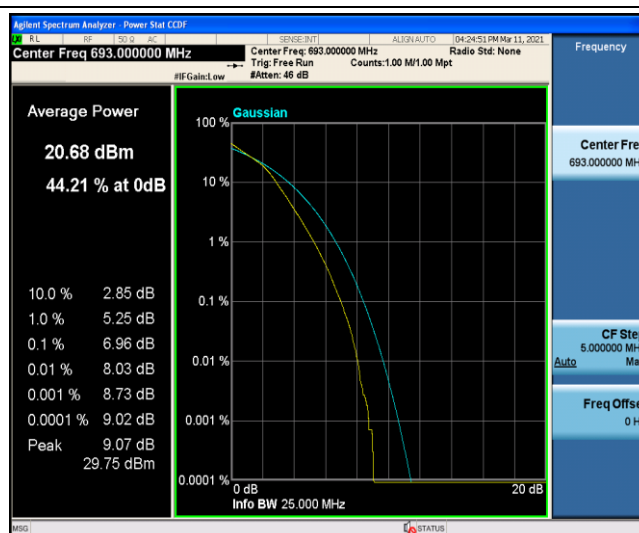


Band 71_10MHz_QPSK_133297_1RB#0





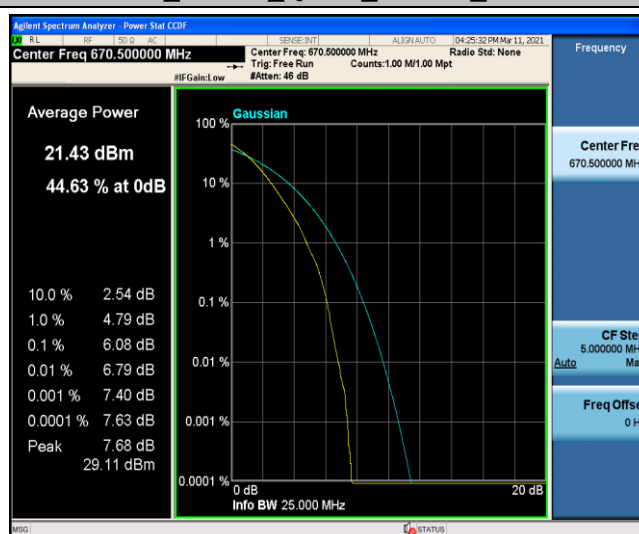




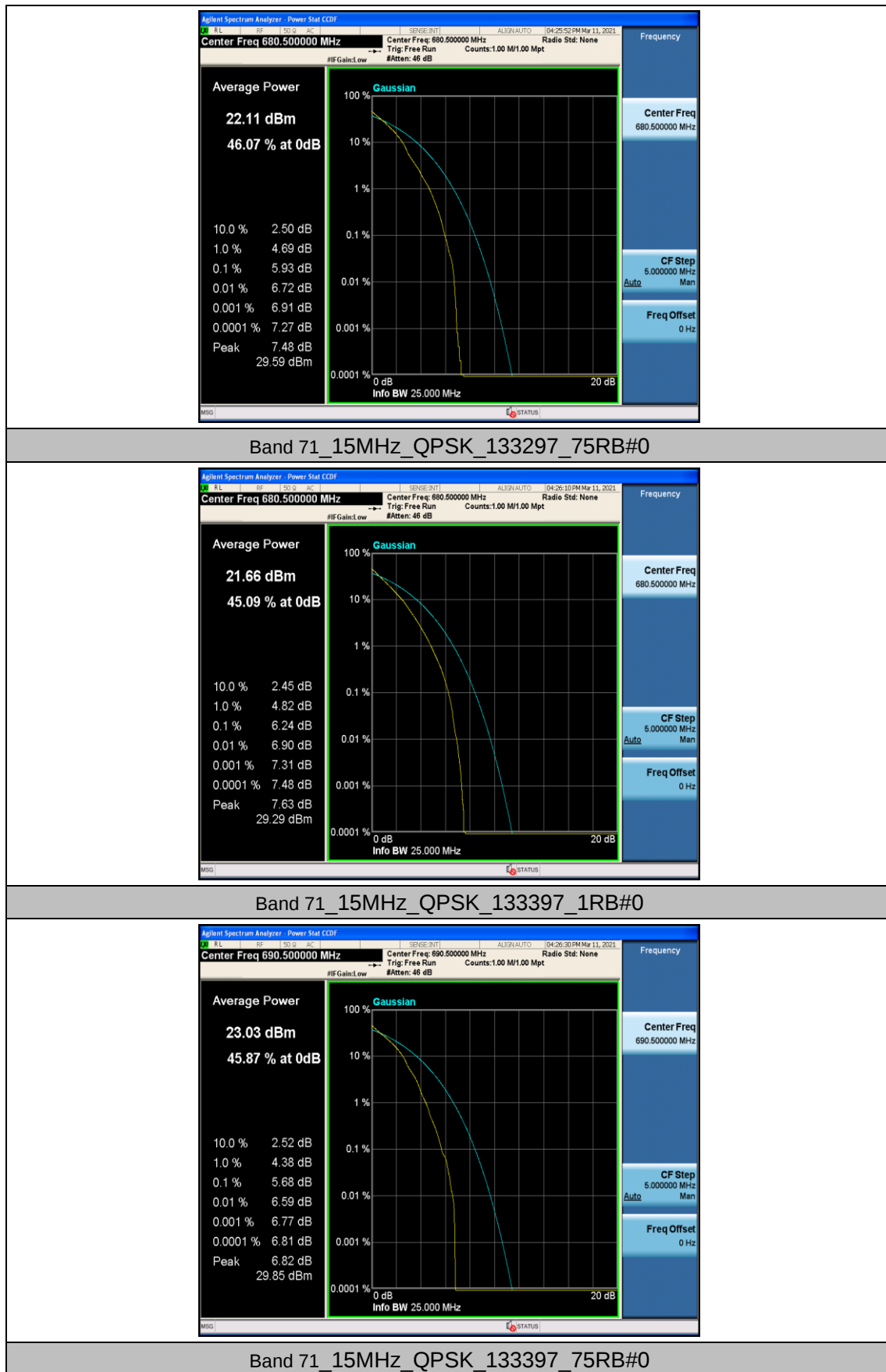
Band 71_15MHz_QPSK_133197_1RB#0



Band 71_15MHz_QPSK_133197_75RB#0

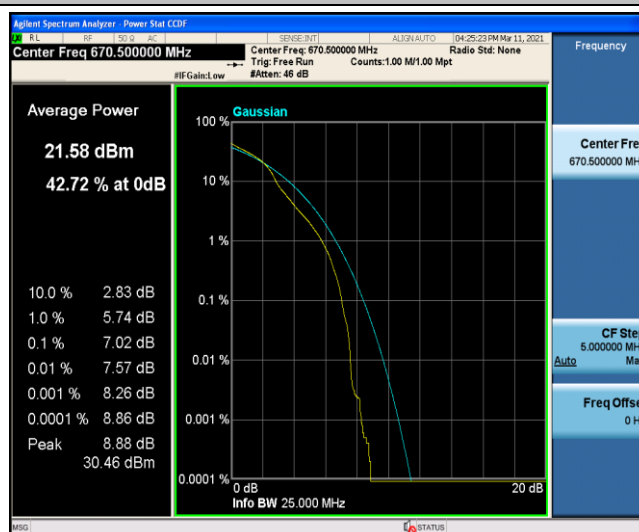


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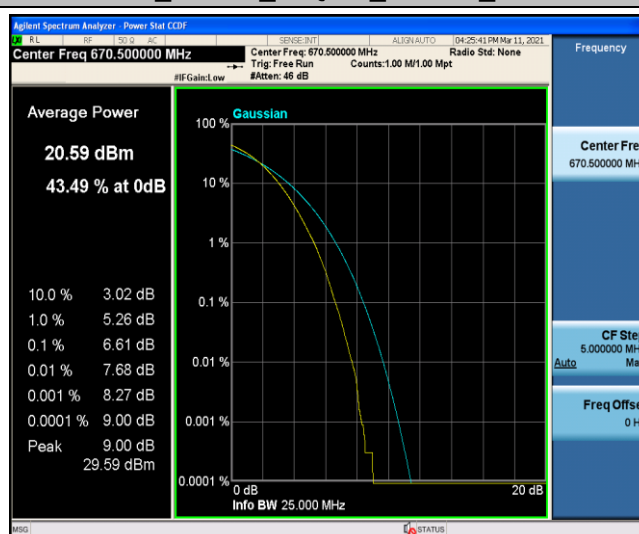




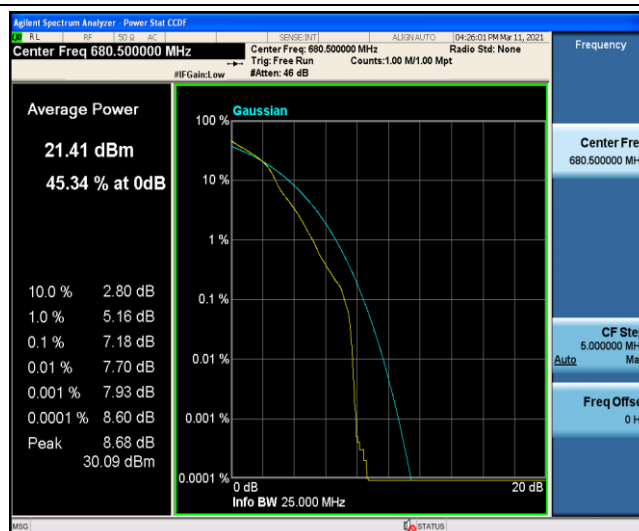
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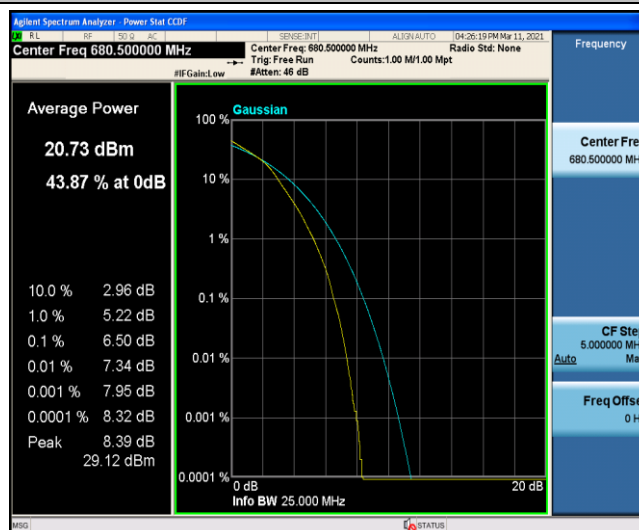
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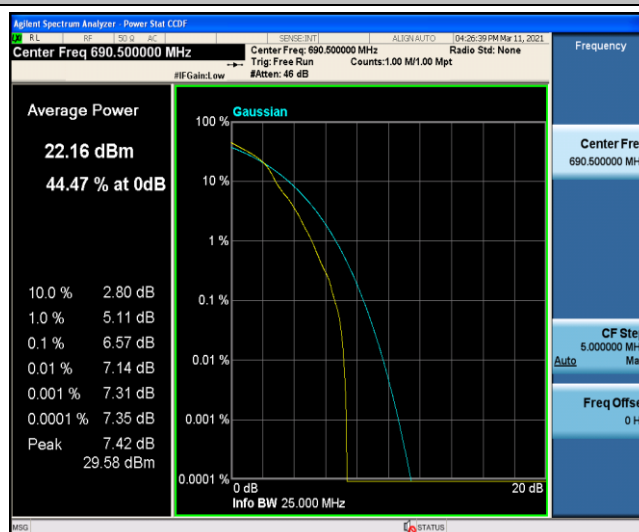
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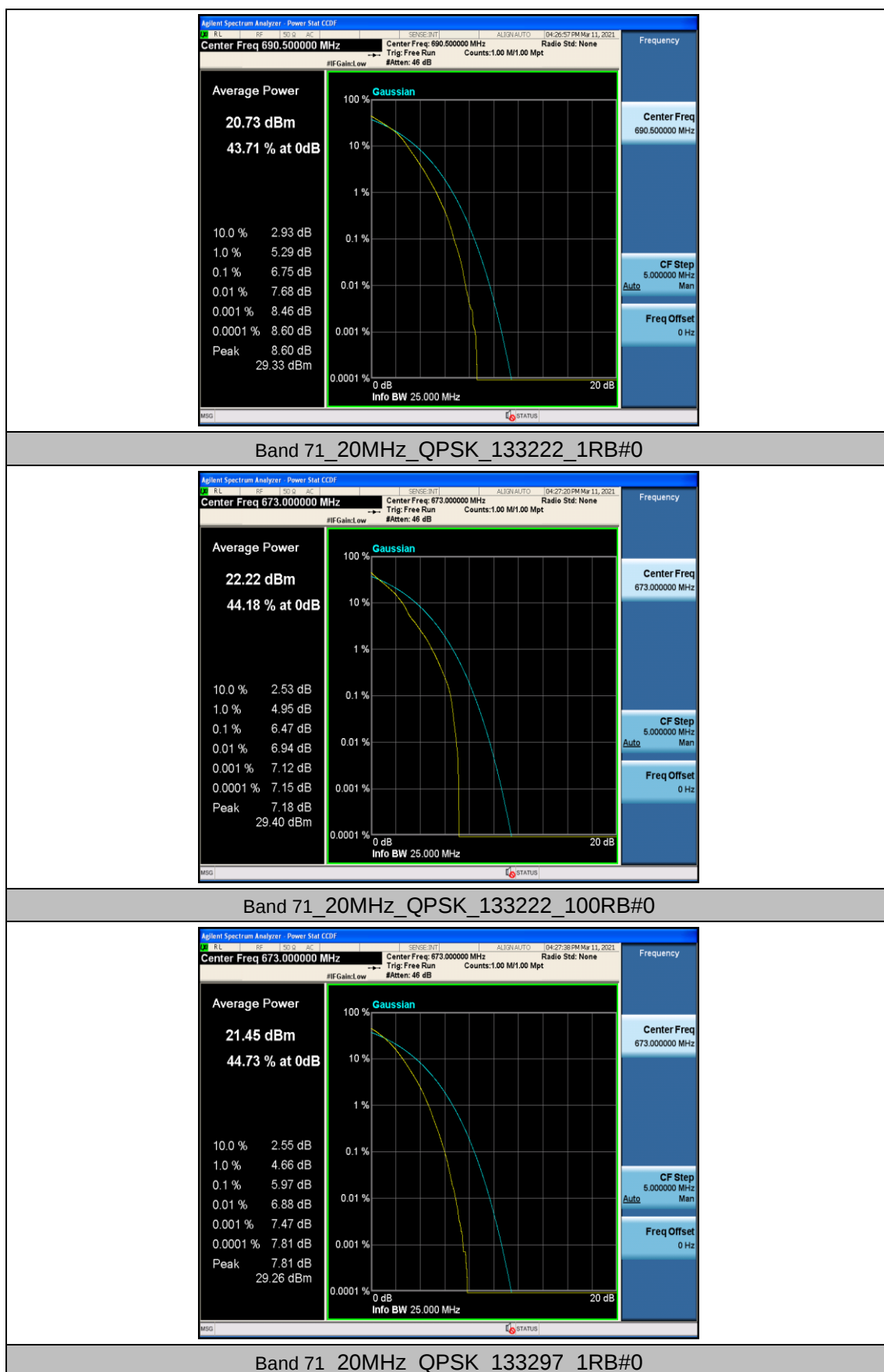
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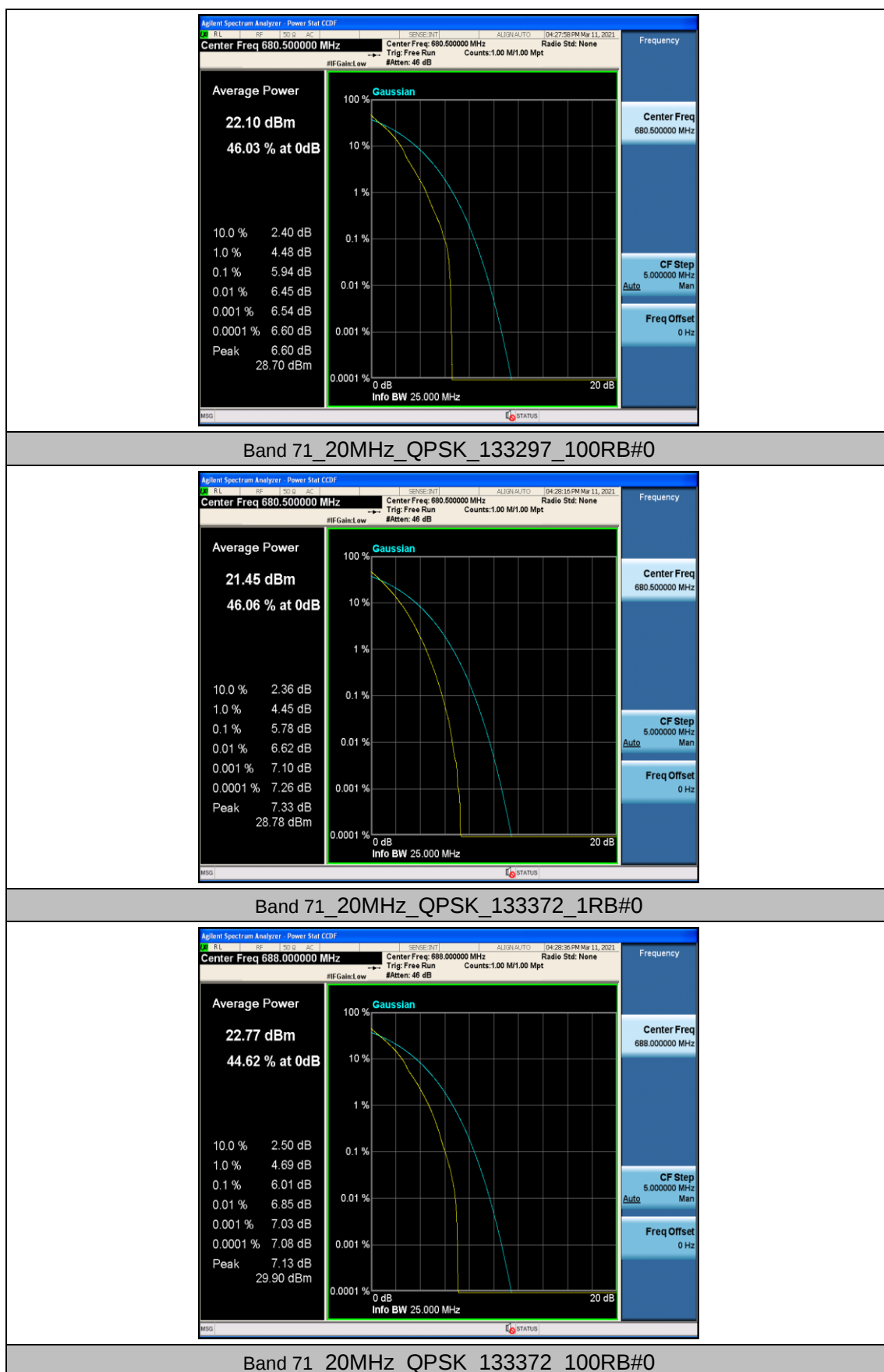


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Band 71_15MHz_16QAM_133397_75RB#0



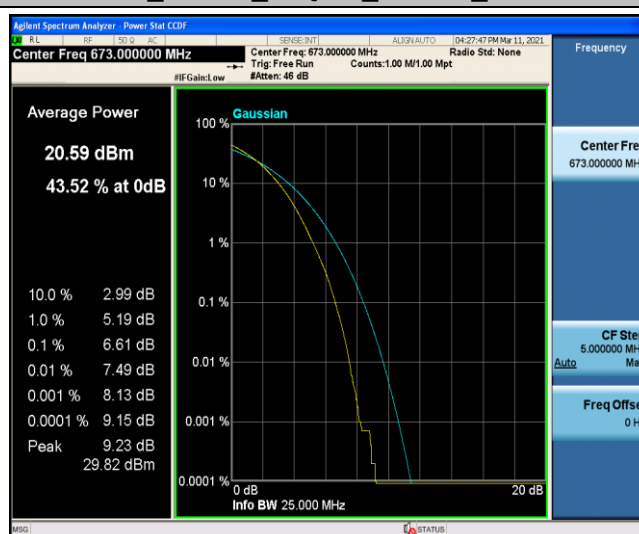




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Band 71_20MHz_16QAM_133297_1RB#0