



Appendix M: Test Data for E-UTRA Band 17

Product Name: Rugged Handheld Computer

Test Model: EA520

Environmental Conditions

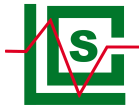
Temperature:	21.2° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan



M.1 Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.85	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.92	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.82	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.89	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.85	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.85	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.81	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.86	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.93	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.87	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.98	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.93	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.90	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.87	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.89	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.03	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.85	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.95	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.94	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.85	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.87	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.76	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.82	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.80	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.87	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.88	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.89	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.93	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.94	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.97	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.85	PASS
Band17	5MHz	16QAM	23790	12RB#0	21.00	PASS



Band17	5MHz	16QAM	23790	12RB#6	21.00	PASS
Band17	5MHz	16QAM	23790	12RB#13	21.00	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.95	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.72	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.80	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.73	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.97	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.98	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.93	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.95	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.84	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.00	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.79	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.00	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.97	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.87	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.91	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.94	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.09	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.96	PASS
Band17	10MHz	QPSK	23790	25RB#0	22.05	PASS
Band17	10MHz	QPSK	23790	25RB#12	22.01	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.87	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.94	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.97	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.00	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.42	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.82	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.59	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.52	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.48	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.89	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.08	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.76	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.02	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.99	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.90	PASS



Band17	10MHz	16QAM	23780	50RB#0	21.01	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.78	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.71	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.69	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.17	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.16	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.95	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.05	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.66	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.66	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.19	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.71	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.72	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.54	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.85	PASS



M.2 Peak-to-Average Ratio(CCDF)

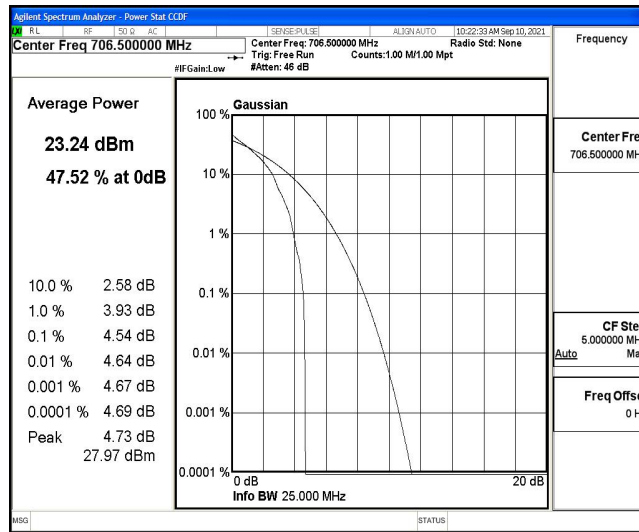
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	4.54	13	PASS
Band17	5MHz	QPSK	23755	25RB#0	5.38	13	PASS
Band17	5MHz	QPSK	23790	1RB#0	4.95	13	PASS
Band17	5MHz	QPSK	23790	25RB#0	5.19	13	PASS
Band17	5MHz	QPSK	23825	1RB#0	4.04	13	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.68	13	PASS
Band17	5MHz	16QAM	23755	1RB#0	5.22	13	PASS
Band17	5MHz	16QAM	23755	25RB#0	6.22	13	PASS
Band17	5MHz	16QAM	23790	1RB#0	5.82	13	PASS
Band17	5MHz	16QAM	23790	25RB#0	6.00	13	PASS
Band17	5MHz	16QAM	23825	1RB#0	4.66	13	PASS
Band17	5MHz	16QAM	23825	25RB#0	5.38	13	PASS
Band17	10MHz	QPSK	23780	1RB#0	4.47	13	PASS
Band17	10MHz	QPSK	23780	50RB#0	5.21	13	PASS
Band17	10MHz	QPSK	23790	1RB#0	4.74	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.22	13	PASS
Band17	10MHz	QPSK	23800	1RB#0	5.02	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.25	13	PASS
Band17	10MHz	16QAM	23780	1RB#0	5.44	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.02	13	PASS
Band17	10MHz	16QAM	23790	1RB#0	5.70	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.06	13	PASS
Band17	10MHz	16QAM	23800	1RB#0	6.22	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.06	13	PASS

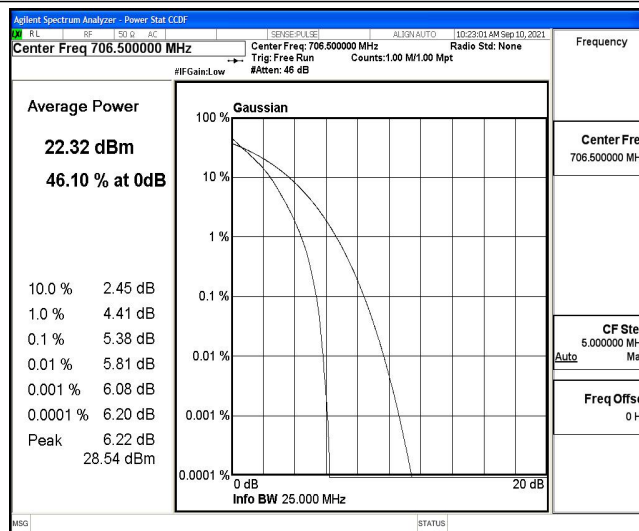


Test Graphs

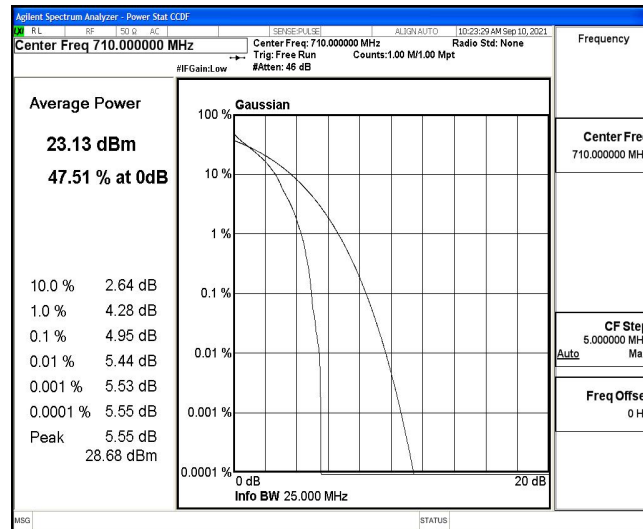
Band17-5MHz-QPSK-23755-1RB#0



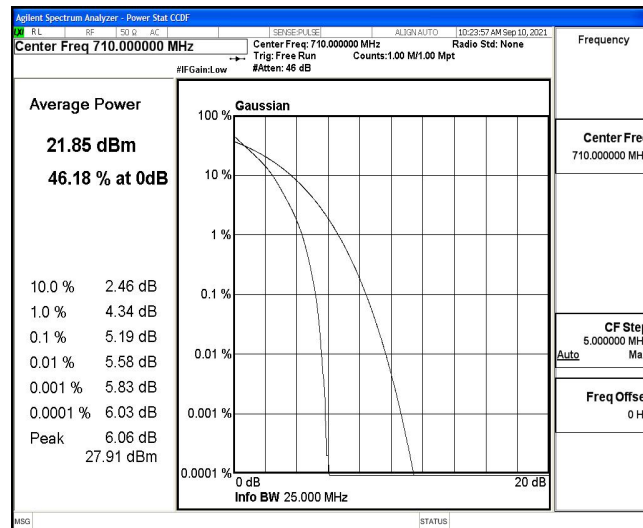
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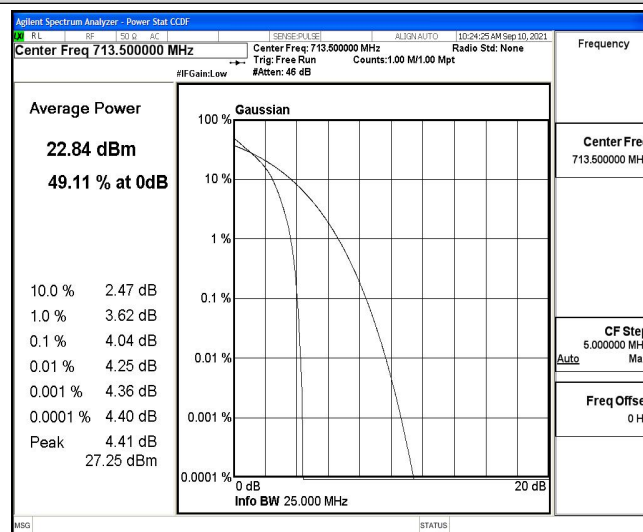
Band17-5MHz-QPSK-23790-1RB#0



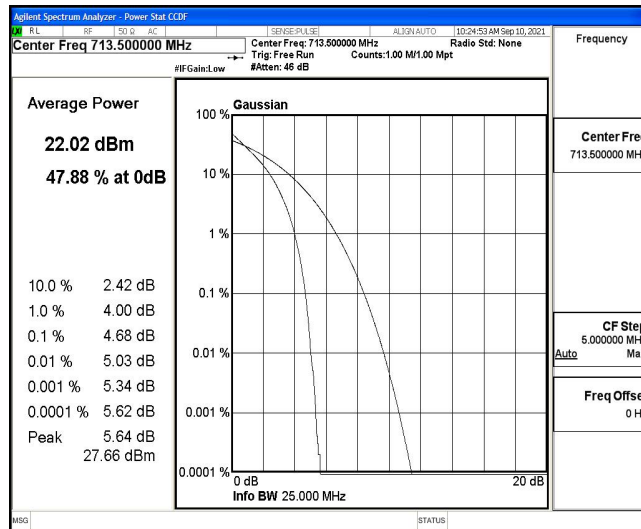
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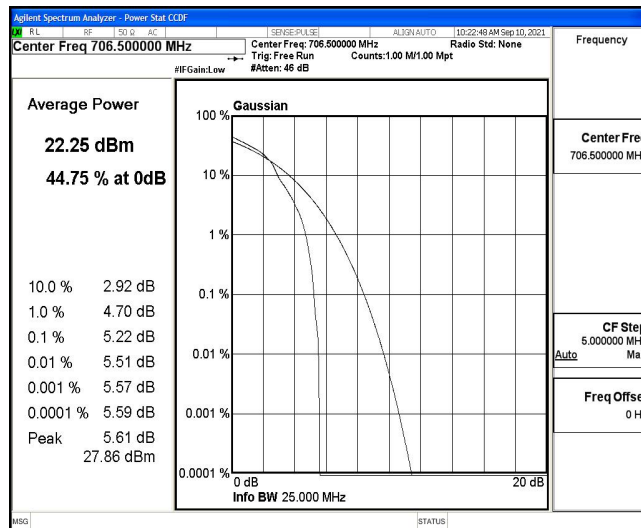
Band17-5MHz-QPSK-23825-1RB#0



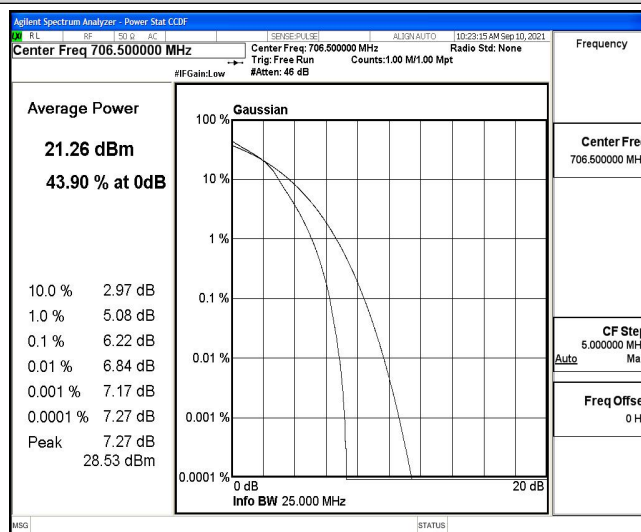
Band17-5MHz-QPSK-23825-25RB#0



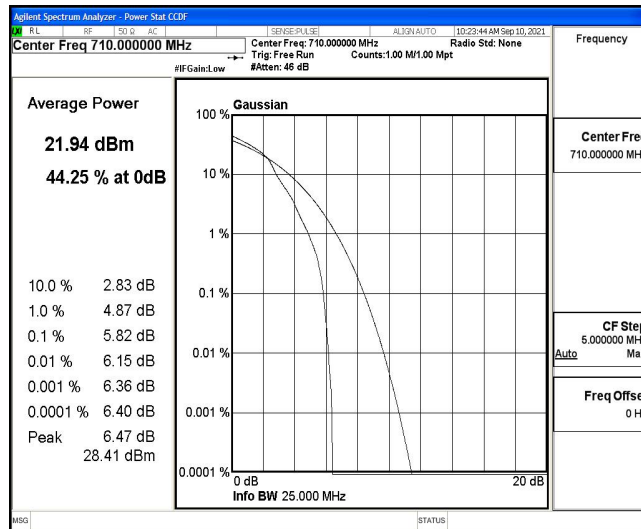
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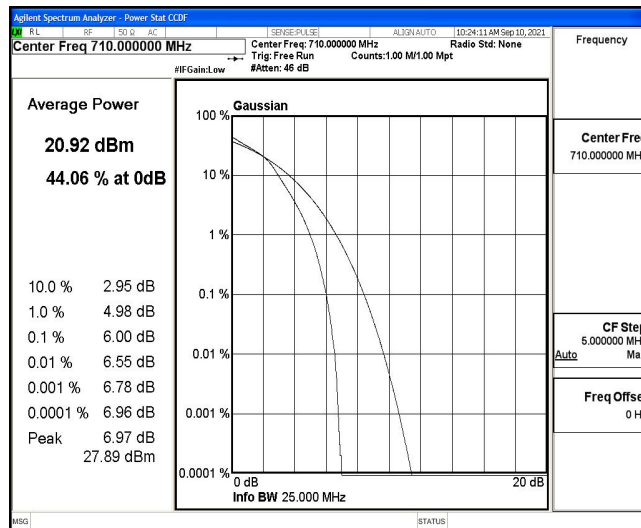
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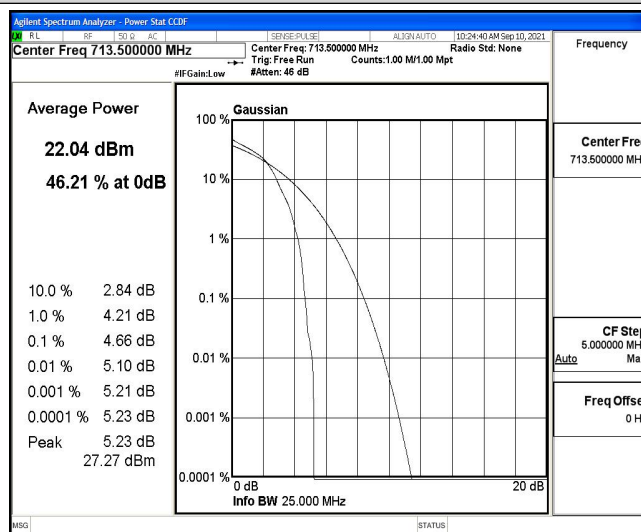
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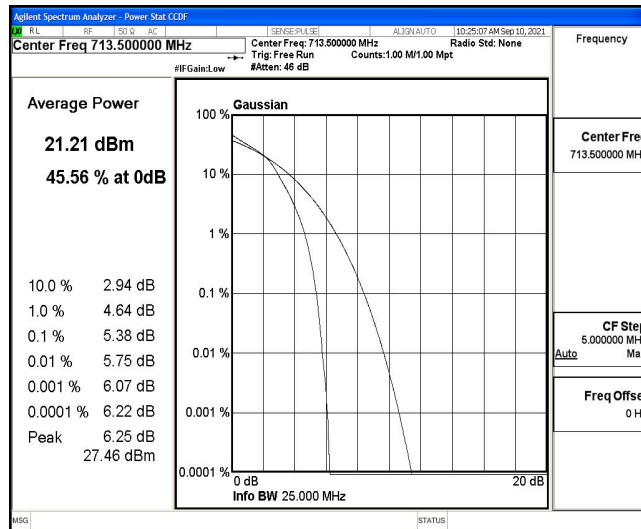
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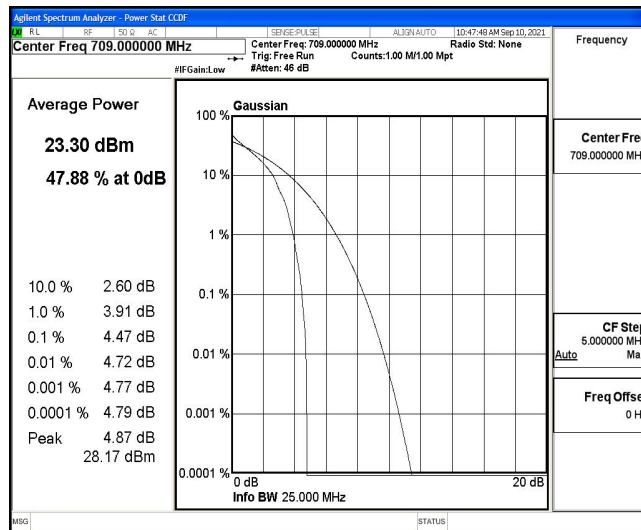
Band17-5MHz-16QAM-23825-1RB#0



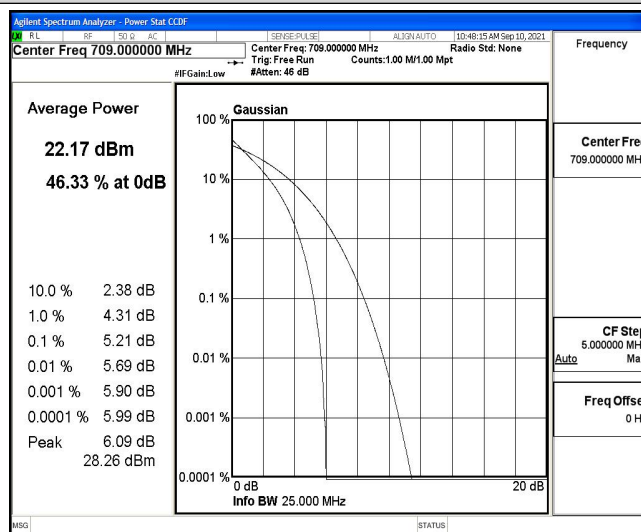
Band17-5MHz-16QAM-23825-25RB#0



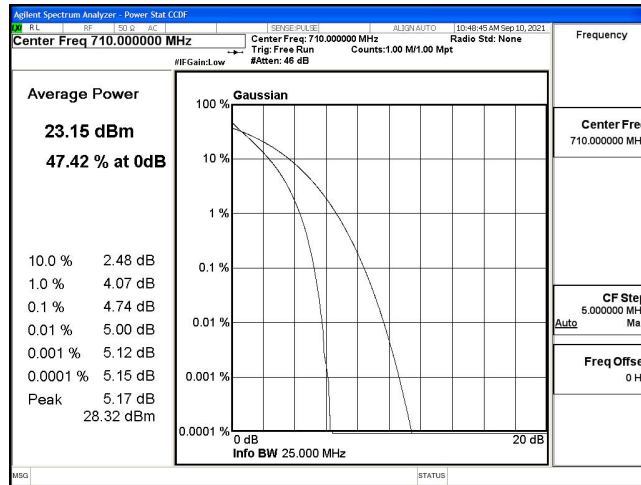
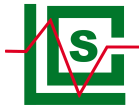
Band17-10MHz-QPSK-23780-1RB#0



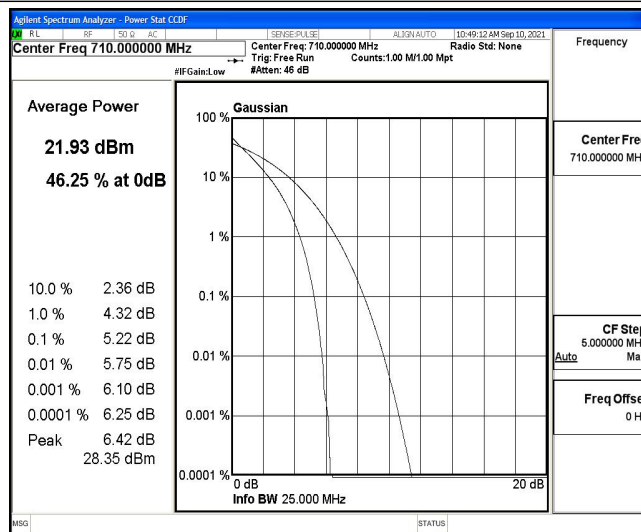
Band17-10MHz-QPSK-23780-50RB#0



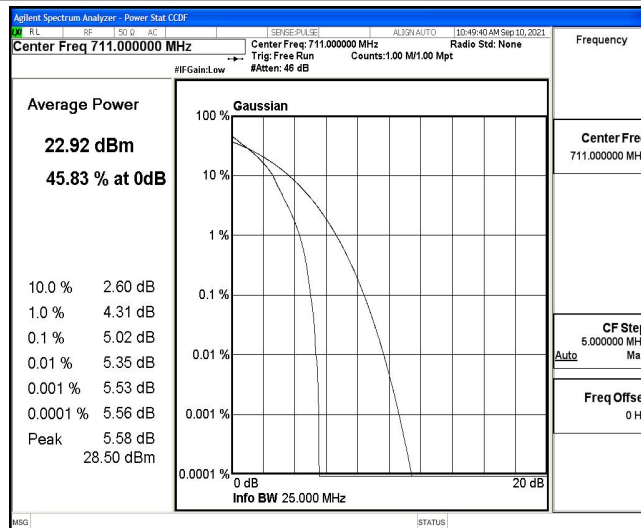
Band17-10MHz-QPSK-23790-1RB#0



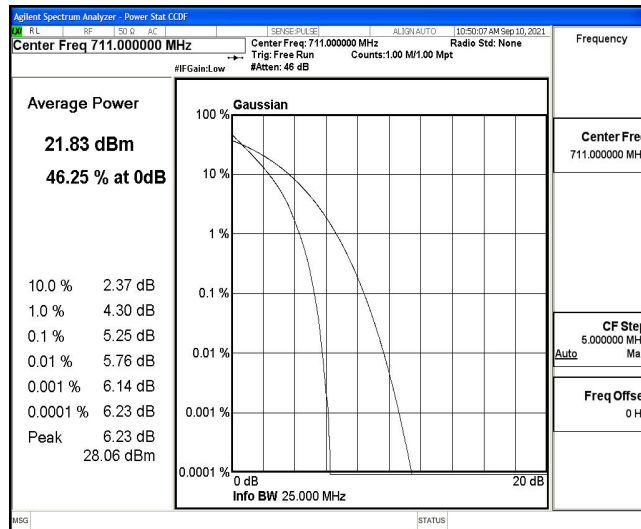
Band17-10MHz-QPSK-23790-50RB#0



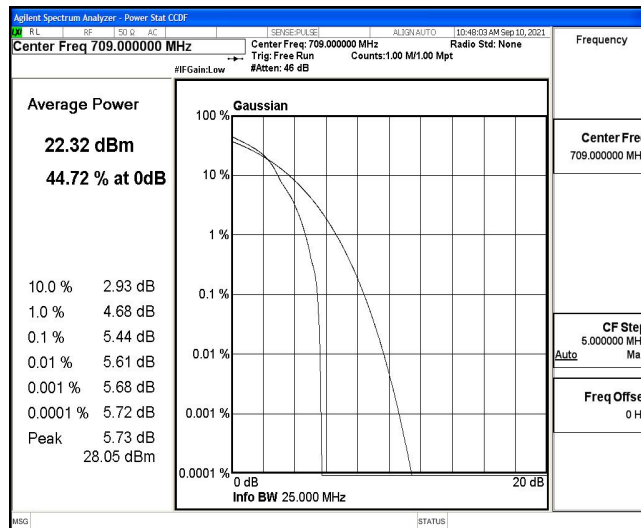
Band17-10MHz-QPSK-23800-1RB#0



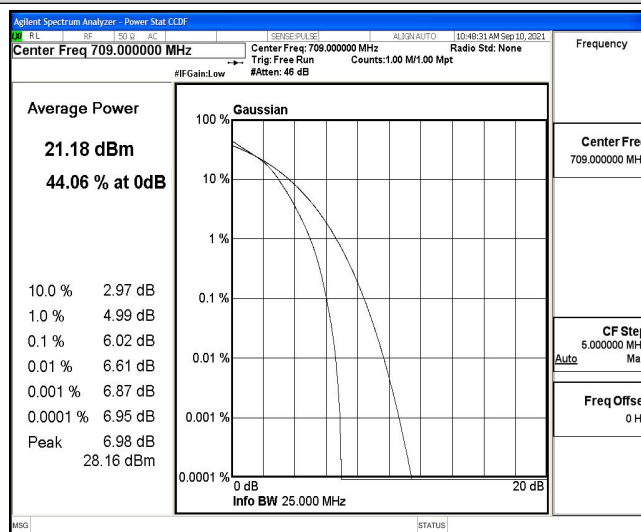
Band17-10MHz-QPSK-23800-50RB#0



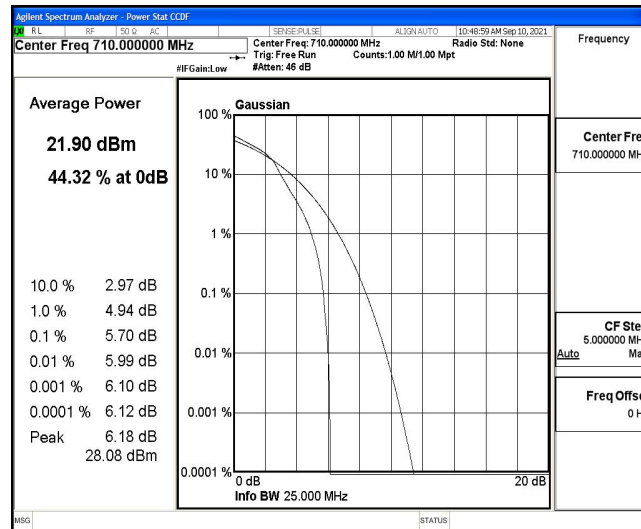
Band17-10MHz-16QAM-23780-1RB#0



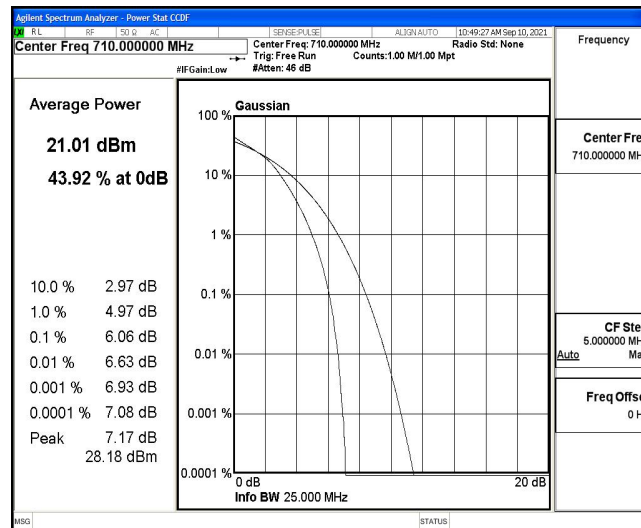
Band17-10MHz-16QAM-23780-50RB#0



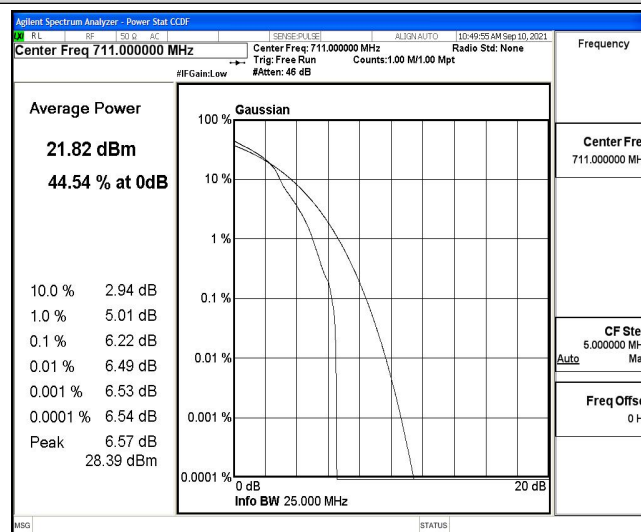
Band17-10MHz-16QAM-23790-1RB#0



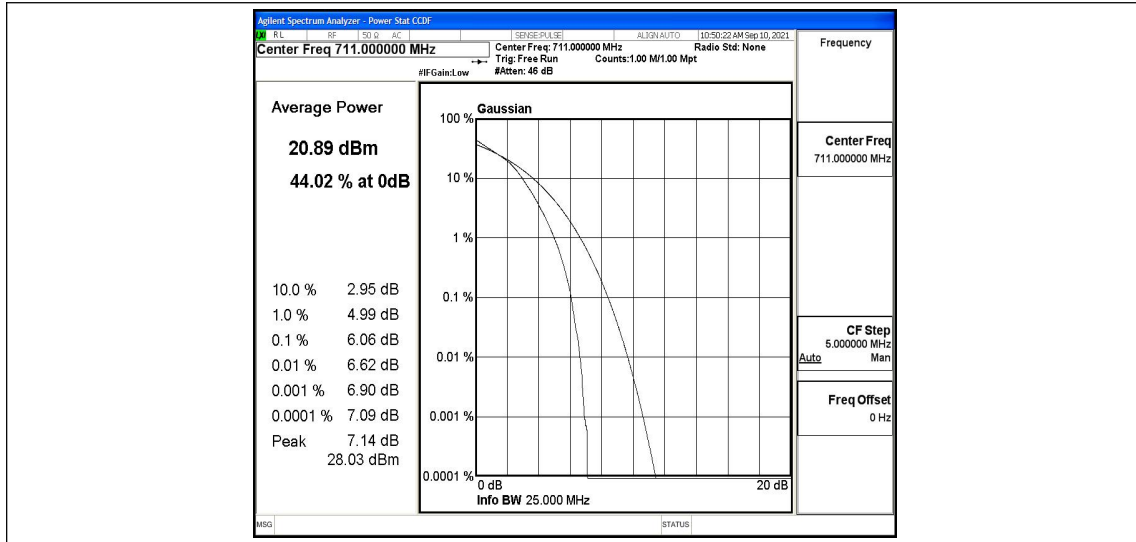
Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-1RB#0



Band17-10MHz-16QAM-23800-50RB#0





M.3 26dB Bandwidth and Occupied Bandwidth

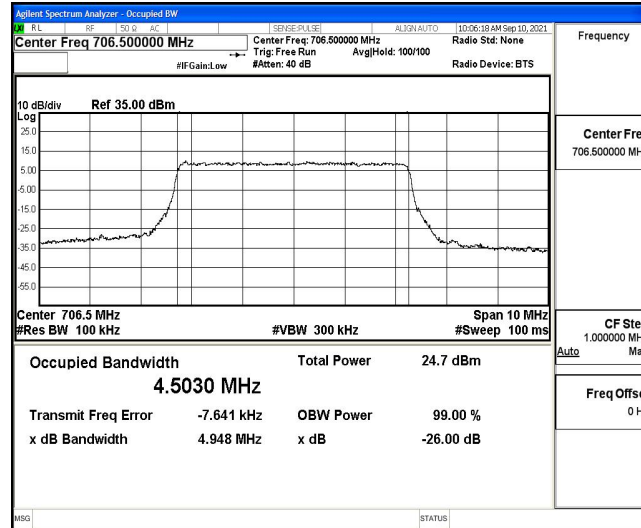
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.5030	4.948	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.5017	4.944	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.5032	4.910	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.5046	4.892	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.5137	4.962	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.5039	4.960	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.9765	9.579	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.9790	9.535	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.9694	9.547	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.9696	9.553	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.9723	9.541	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.9733	9.530	PASS

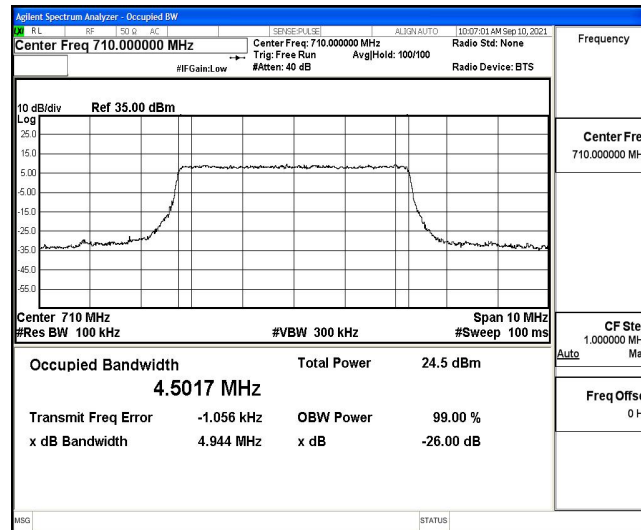


Test Graphs

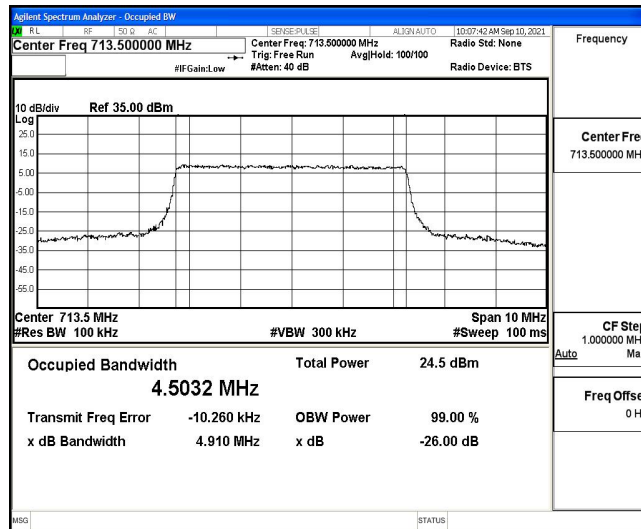
Band17-5MHz-QPSK-23755-25RB#0



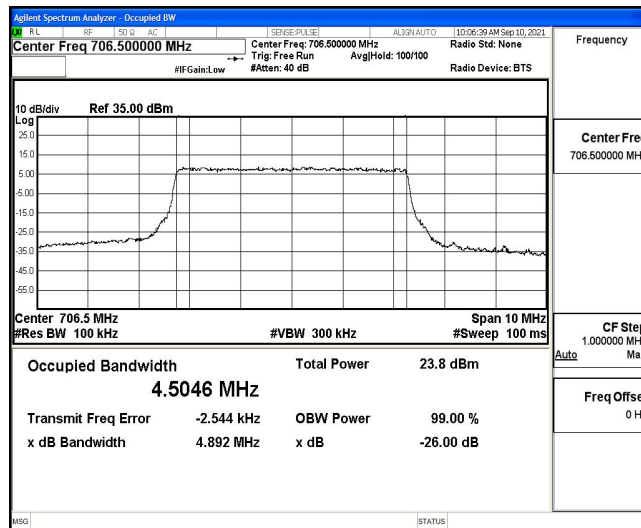
Band17-5MHz-QPSK-23790-25RB#0



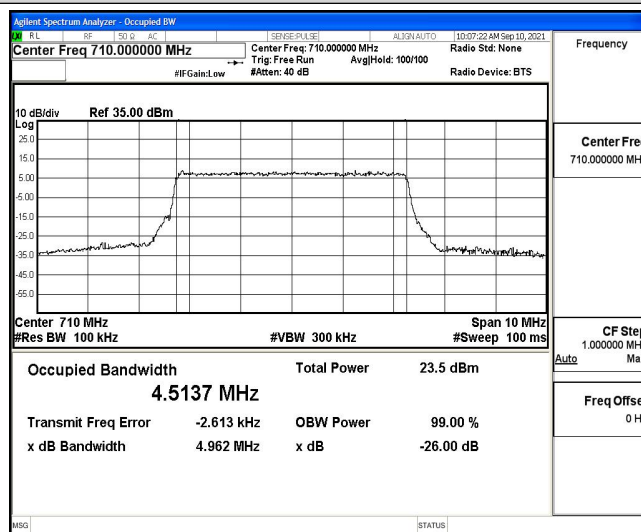
Band17-5MHz-QPSK-23825-25RB#0



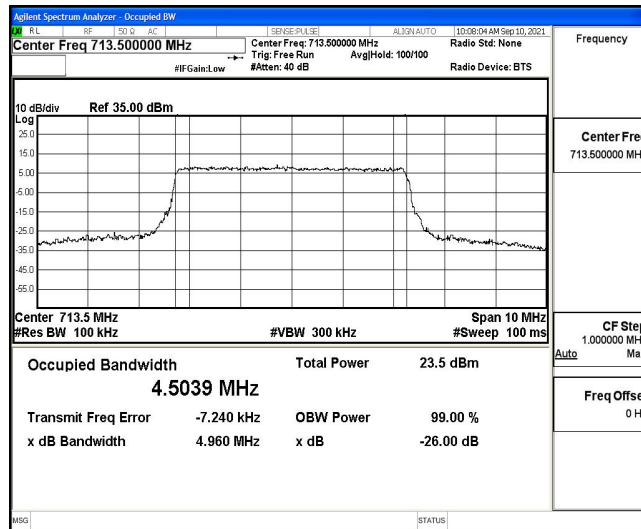
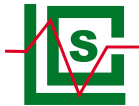
Band17-5MHz-16QAM-23755-25RB#0



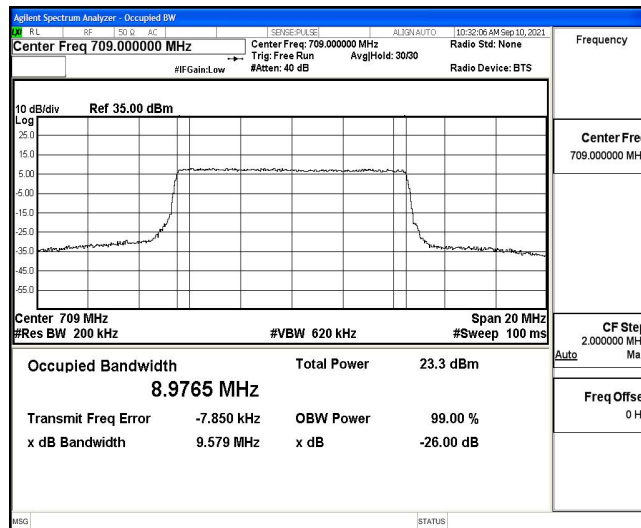
Band17-5MHz-16QAM-23790-25RB#0



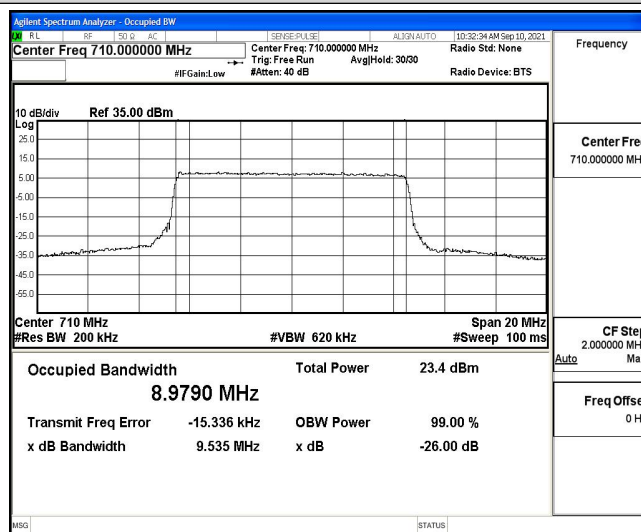
Band17-5MHz-16QAM-23825-25RB#0



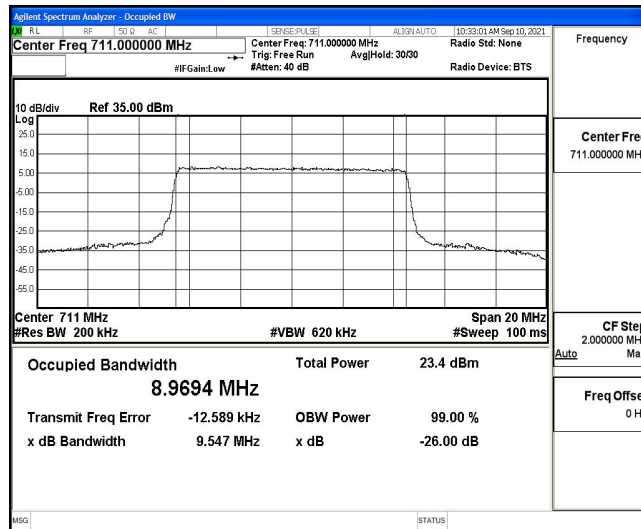
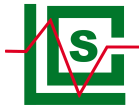
Band17-10MHz-QPSK-23780-50RB#0



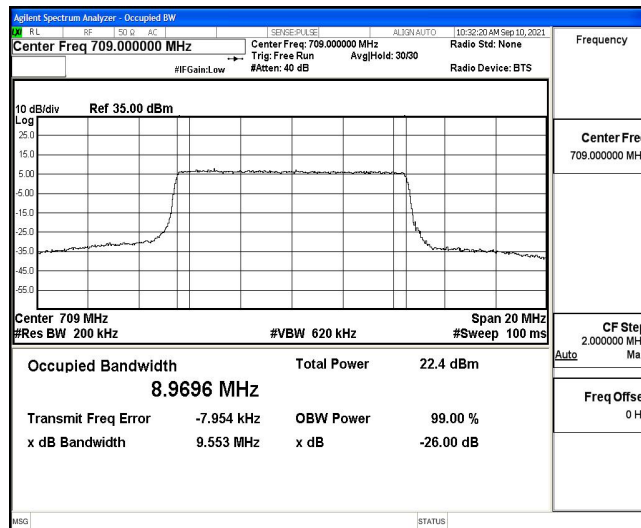
Band17-10MHz-QPSK-23790-50RB#0



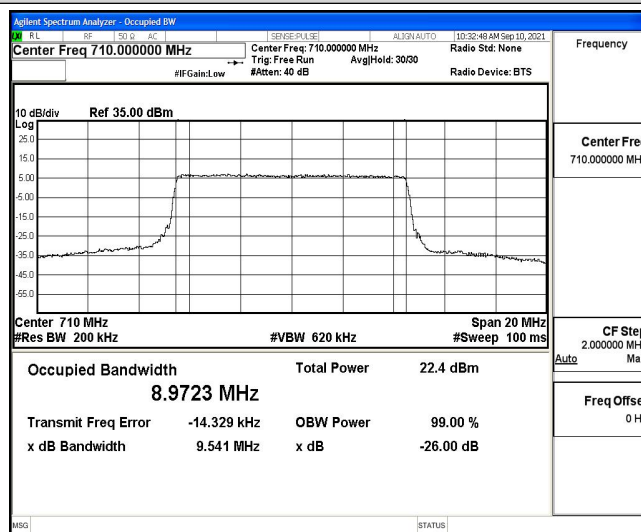
Band17-10MHz-QPSK-23800-50RB#0



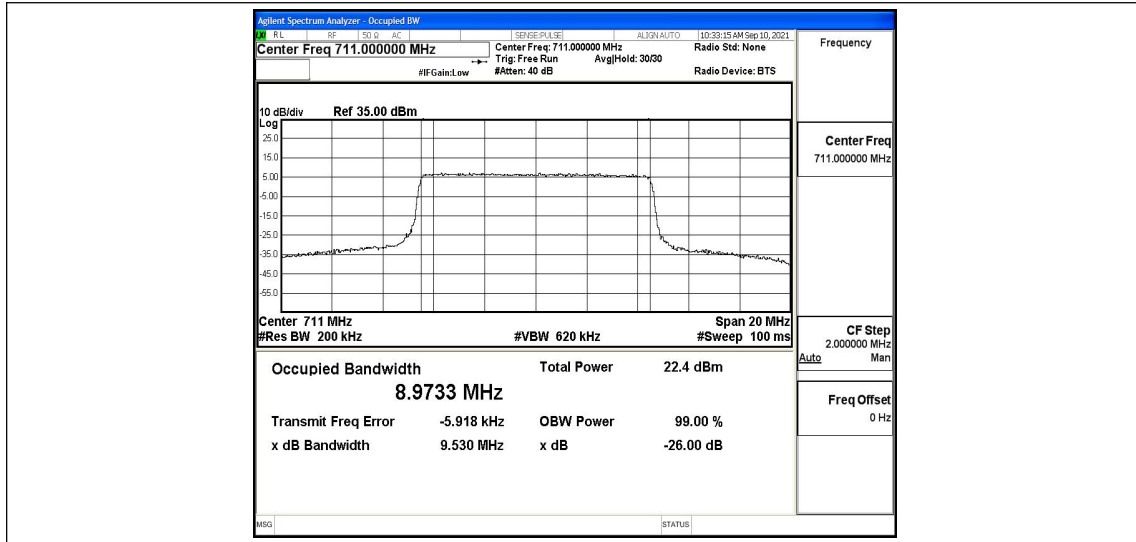
Band17-10MHz-16QAM-23780-50RB#0



Band17-10MHz-16QAM-23790-50RB#0



Band17-10MHz-16QAM-23800-50RB#0

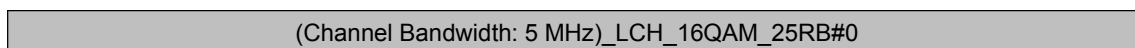
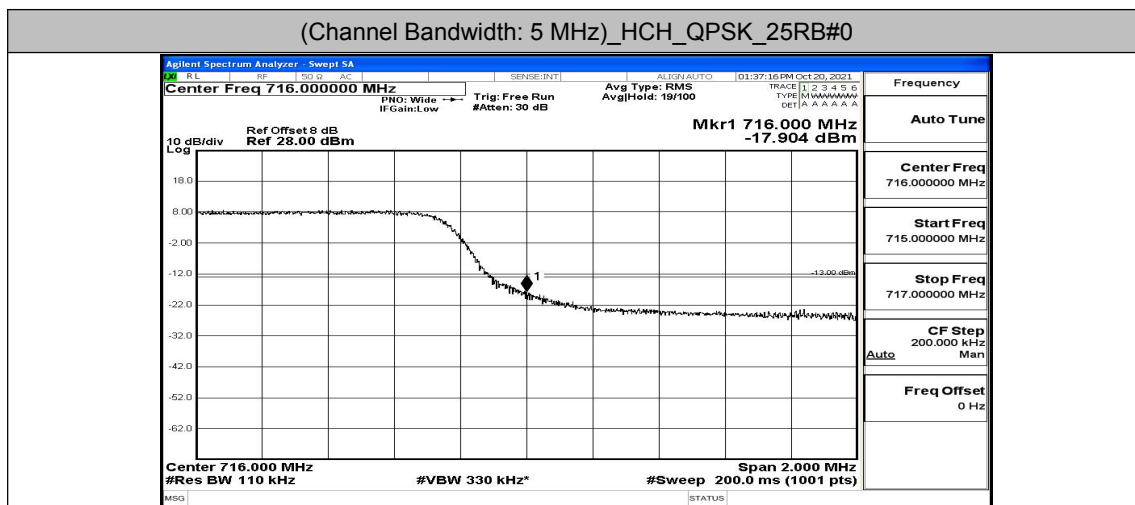
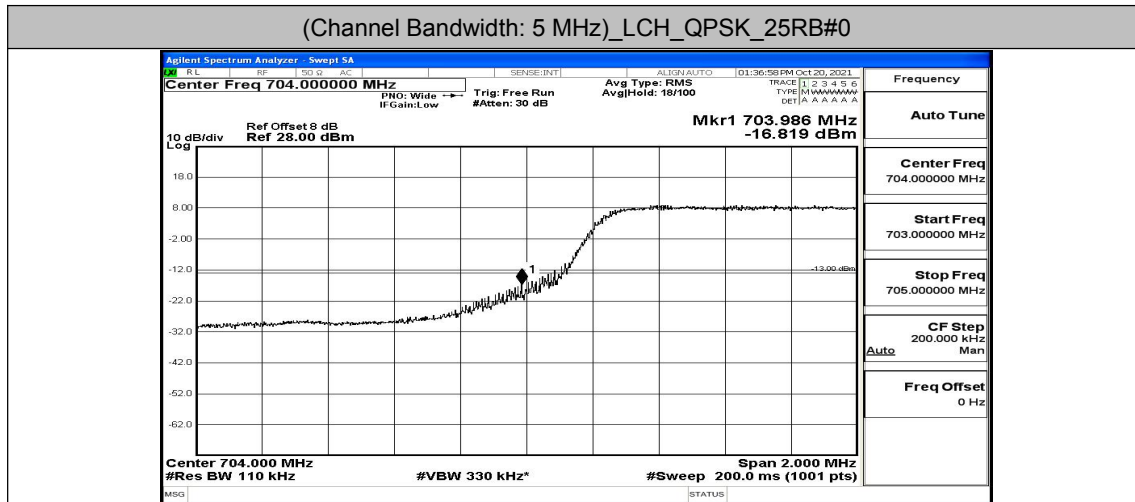


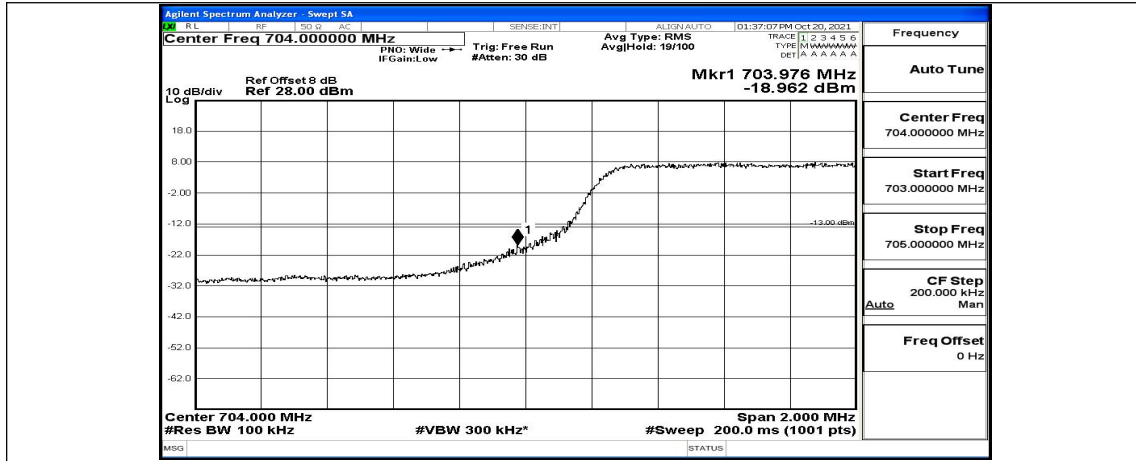


M.4 Band Edge

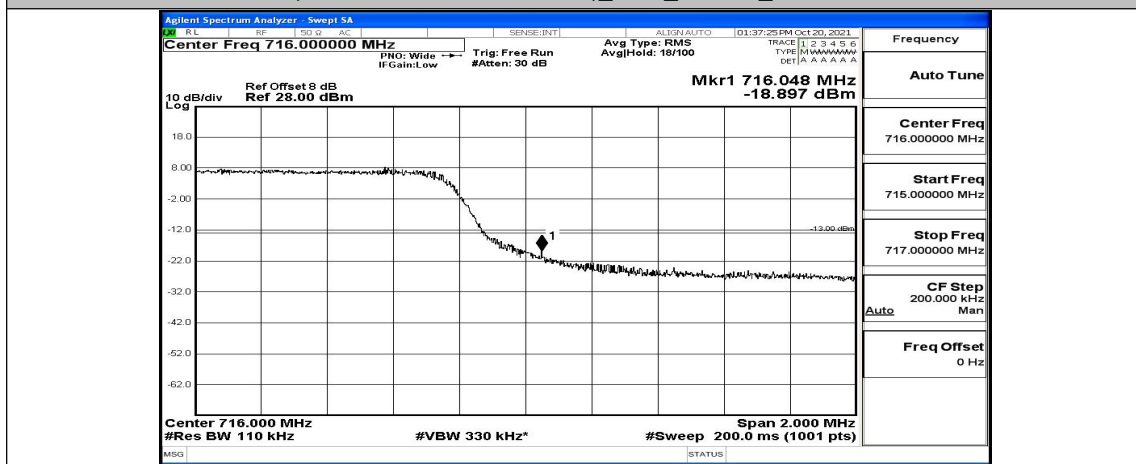
Test Result

Channel Bandwidth: 5 MHz



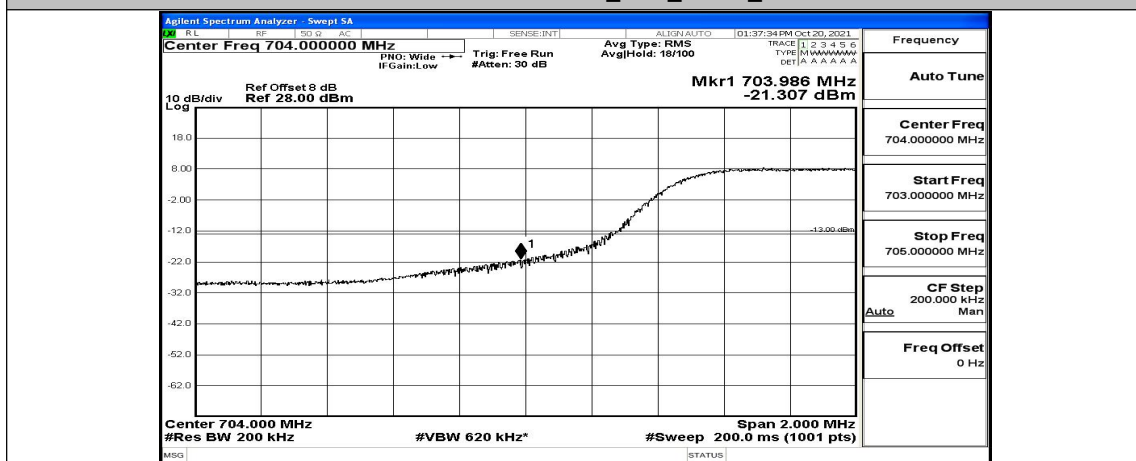


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

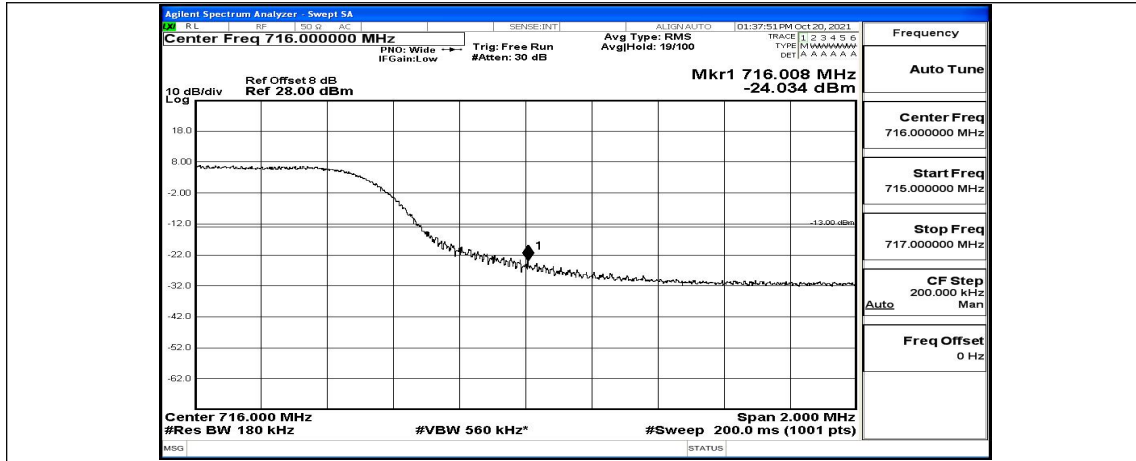


Channel Bandwidth: 10 MHz

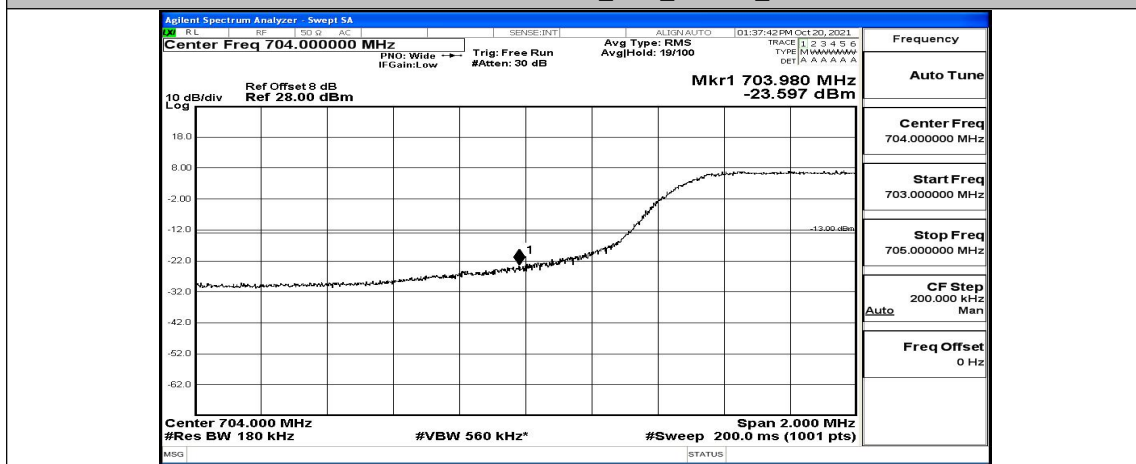
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



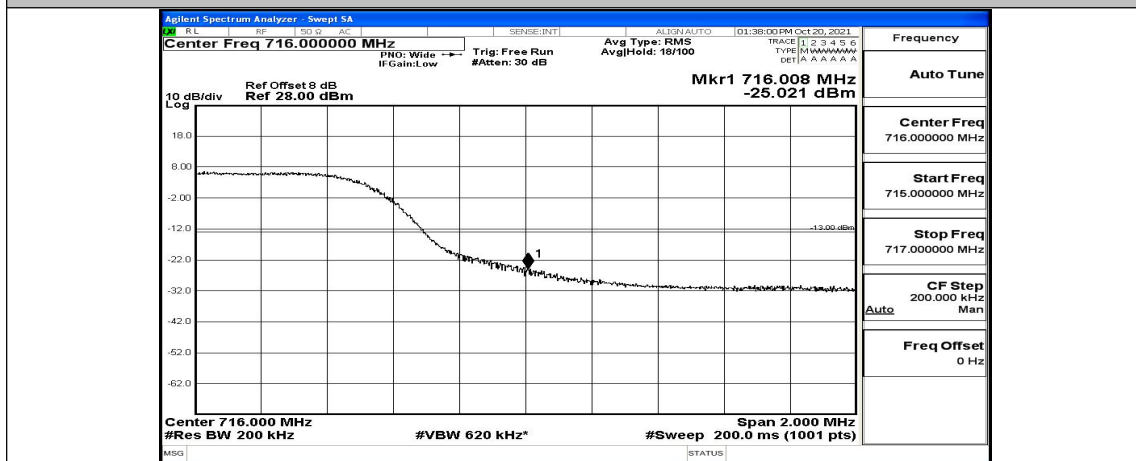
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0





M.5 Conducted Spurious Emission

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	Range1:0.009~0.15MHz	-55.6	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range2:0.15~30MHz	-50.53	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range3:30~1000MHz	-40.94	PASS
Band17	5MHz	QPSK	23755	1RB#0	Range4:1000~10000MHz	-45.43	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-56.66	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-50.85	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-41.17	PASS
Band17	5MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	-45.54	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range1:0.009~0.15MHz	-56.46	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range2:0.15~30MHz	-50.96	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range3:30~1000MHz	-40.28	PASS
Band17	5MHz	QPSK	23825	1RB#0	Range4:1000~10000MHz	-45.48	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range1:0.009~0.15MHz	-57.2	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range2:0.15~30MHz	-52.34	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range3:30~1000MHz	-40.66	PASS
Band17	5MHz	16QAM	23755	1RB#0	Range4:1000~10000MHz	-45.44	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range1:0.009~0.15MHz	-56.04	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range2:0.15~30MHz	-51.8	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range3:30~1000MHz	-41.07	PASS
Band17	5MHz	16QAM	23790	1RB#0	Range4:1000~10000MHz	-45.36	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range1:0.009~0.15MHz	-57.01	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range2:0.15~30MHz	-51.85	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range3:30~1000MHz	-41.12	PASS
Band17	5MHz	16QAM	23825	1RB#0	Range4:1000~10000MHz	-45.4	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range1:0.009~0.15MHz	-55.6	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:0.15~30MHz	-50.91	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range3:30~1000MHz	-41.55	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range4:1000~10000MHz	-45.51	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:0.009~0.15MHz	-56.14	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:0.15~30MHz	-50.96	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range3:30~1000MHz	-40.37	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range4:1000~10000MHz	-45.42	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:0.009~0.15MHz	-57.16	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range2:0.15~30MHz	-51.42	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range3:30~1000MHz	-41.59	PASS