Appendix for Band 17

Report No.:	BCTC2312704909-5E
Applicant:	Shenzhen Swage Electronics Co.,Ltd.
Product Name:	Smart watch
Test Model:	D10
Tested Date:	2023-12-04 to 2023-12-18

Shenzhen BCTC Testing Co., Ltd.

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Appendix 1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	ERP (dBm)	Verdict
Band17	5	23755	1	#0	QPSK	21.97	0.74	20.56	PASS
Band17	5	23755	1	#Mid	QPSK	22.06	0.74	20.65	PASS
Band17	5	23755	1	#Max	QPSK	22.01	0.74	20.60	PASS
Band17	5	23755	12	#0	QPSK	21.16	0.74	19.75	PASS
Band17	5	23755	12	#Mid	QPSK	20.97	0.74	19.56	PASS
Band17	5	23755	12	#Max	QPSK	20.90	0.74	19.49	PASS
Band17	5	23755	25	#0	QPSK	21.03	0.74	19.62	PASS
Band17	5	23755	1	#0	16QAM	20.73	0.74	19.32	PASS
Band17	5	23755	1	#Mid	16QAM	20.72	0.74	19.31	PASS
Band17	5	23755	1	#Max	16QAM	20.45	0.74	19.04	PASS
Band17	5	23755	12	#0	16QAM	19.96	0.74	18.55	PASS
Band17	5	23755	12	#Mid	16QAM	19.91	0.74	18.50	PASS
Band17	5	23755	12	#Max	16QAM	19.64	0.74	18.23	PASS
Band17	5	23755	25	#0	16QAM	20.06	0.74	18.65	PASS
Band17	5	23790	1	#0	QPSK	21.84	0.74	20.43	PASS
Band17	5	23790	1	#Mid	QPSK	21.70	0.74	20.29	PASS
Band17	5	23790	1	#Max	QPSK	21.87	0.74	20.46	PASS
Band17	5	23790	12	#0	QPSK	20.82	0.74	19.41	PASS
Band17	5	23790	12	#Mid	QPSK	20.98	0.74	19.57	PASS
Band17	5	23790	12	#Max	QPSK	21.05	0.74	19.64	PASS
Band17	5	23790	25	#0	QPSK	20.89	0.74	19.48	PASS
Band17	5	23790	1	#0	16QAM	21.05	0.74	19.64	PASS
Band17	5	23790	1	#Mid	16QAM	21.19	0.74	19.78	PASS
Band17	5	23790	1	#Max	16QAM	21.11	0.74	19.70	PASS
Band17	5	23790	12	#0	16QAM	19.78	0.74	18.37	PASS
Band17	5	23790	12	#Mid	16QAM	19.76	0.74	18.35	PASS
Band17	5	23790	12	#Max	16QAM	19.67	0.74	18.26	PASS
Band17	5	23790	25	#0	16QAM	19.75	0.74	18.34	PASS
Band17	5	23825	1	#0	QPSK	22.01	0.74	20.60	PASS
Band17	5	23825	1	#Mid	QPSK	21.93	0.74	20.52	PASS
Band17	5	23825	1	#Max	QPSK	22.07	0.74	20.66	PASS
Band17	5	23825	12	#0	QPSK	20.90	0.74	19.49	PASS
Band17	5	23825	12	#Mid	QPSK	20.91	0.74	19.50	PASS
Band17	5	23825	12	#Max	QPSK	21.02	0.74	19.61	PASS
Band17	5	23825	25	#0	QPSK	20.86	0.74	19.45	PASS
Band17	5	23825	1	#0	16QAM	21.00	0.74	19.59	PASS
Band17	5	23825	1	#Mid	16QAM	21.16	0.74	19.75	PASS
Band17	5	23825	1	#Max	16QAM	21.02	0.74	19.61	PASS

Band17	5	23825	12	#0	16QAM	19.64	0.74	18.23	PASS
Band17	5	23825	12	#Mid	16QAM	19.94	0.74	18.53	PASS
Band17	5	23825	12	#Max	16QAM	19.94	0.74	18.53	PASS
Band17	5	23825	25	#0	16QAM	20.07	0.74	18.66	PASS
Band17	10	23780	1	#0	QPSK	21.79	0.74	20.38	PASS
Band17	10	23780	1	#Mid	QPSK	21.96	0.74	20.55	PASS
Band17	10	23780	1	#Max	QPSK	21.97	0.74	20.56	PASS
Band17	10	23780	25	#0	QPSK	21.12	0.74	19.71	PASS
Band17	10	23780	25	#Mid	QPSK	20.84	0.74	19.43	PASS
Band17	10	23780	25	#Max	QPSK	20.93	0.74	19.52	PASS
Band17	10	23780	50	#0	QPSK	20.80	0.74	19.39	PASS
Band17	10	23780	1	#0	16QAM	21.86	0.74	20.45	PASS
Band17	10	23780	1	#Mid	16QAM	21.76	0.74	20.35	PASS
Band17	10	23780	1	#Max	16QAM	21.88	0.74	20.47	PASS
Band17	10	23780	25	#0	16QAM	19.97	0.74	18.56	PASS
Band17	10	23780	25	#Mid	16QAM	19.65	0.74	18.24	PASS
Band17	10	23780	25	#Max	16QAM	19.69	0.74	18.28	PASS
Band17	10	23780	50	#0	16QAM	19.76	0.74	18.35	PASS
Band17	10	23790	1	#0	QPSK	22.04	0.74	20.63	PASS
Band17	10	23790	1	#Mid	QPSK	22.01	0.74	20.60	PASS
Band17	10	23790	1	#Max	QPSK	21.97	0.74	20.56	PASS
Band17	10	23790	25	#0	QPSK	20.80	0.74	19.39	PASS
Band17	10	23790	25	#Mid	QPSK	20.92	0.74	19.51	PASS
Band17	10	23790	25	#Max	QPSK	20.94	0.74	19.53	PASS
Band17	10	23790	50	#0	QPSK	21.01	0.74	19.60	PASS
Band17	10	23790	1	#0	16QAM	21.15	0.74	19.74	PASS
Band17	10	23790	1	#Mid	16QAM	21.02	0.74	19.61	PASS
Band17	10	23790	1	#Max	16QAM	20.97	0.74	19.56	PASS
Band17	10	23790	25	#0	16QAM	19.85	0.74	18.44	PASS
Band17	10	23790	25	#Mid	16QAM	19.74	0.74	18.33	PASS
Band17	10	23790	25	#Max	16QAM	19.74	0.74	18.33	PASS
Band17	10	23790	50	#0	16QAM	19.90	0.74	18.49	PASS
Band17	10	23800	1	#0	QPSK	22.27	0.74	20.86	PASS
Band17	10	23800	1	#Mid	QPSK	22.13	0.74	20.72	PASS
Band17	10	23800	1	#Max	QPSK	22.27	0.74	20.86	PASS
Band17	10	23800	25	#0	QPSK	20.88	0.74	19.47	PASS
Band17	10	23800	25	#Mid	QPSK	20.97	0.74	19.56	PASS
Band17	10	23800	25	#Max	QPSK	21.12	0.74	19.71	PASS
Band17	10	23800	50	#0	QPSK	20.92	0.74	19.51	PASS
Band17	10	23800	1	#0	16QAM	20.96	0.74	19.55	PASS
Band17	10	23800	1	#Mid	16QAM	20.89	0.74	19.48	PASS
Band17	10	23800	1	#Max	16QAM	20.95	0.74	19.54	PASS
Band17	10	23800	25	#0	16QAM	19.79	0.74	18.38	PASS

Band17	10	23800	25	#Mid	16QAM	19.82	0.74	18.41	PASS
Band17	10	23800	25	#Max	16QAM	20.06	0.74	18.65	PASS
Band17	10	23800	50	#0	16QAM	19.74	0.74	18.33	PASS

Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band17	5	23755	25	#0	QPSK	LV	NT	-15.16	-0.021	PASS
Band17	5	23755	25	#0	QPSK	NV	NT	-19.21	-0.027	PASS
Band17	5	23755	25	#0	QPSK	HV	NT	-20.00	-0.028	PASS
Band17	5	23755	25	#0	16QAM	LV	NT	-22.79	-0.032	PASS
Band17	5	23755	25	#0	16QAM	NV	NT	-21.21	-0.030	PASS
Band17	5	23755	25	#0	16QAM	HV	NT	-24.32	-0.034	PASS
Band17	5	23790	25	#0	QPSK	LV	NT	-7.84	-0.011	PASS
Band17	5	23790	25	#0	QPSK	NV	NT	-11.62	-0.016	PASS
Band17	5	23790	25	#0	QPSK	HV	NT	-13.93	-0.020	PASS
Band17	5	23790	25	#0	16QAM	LV	NT	-14.13	-0.020	PASS
Band17	5	23790	25	#0	16QAM	NV	NT	-13.95	-0.020	PASS
Band17	5	23790	25	#0	16QAM	HV	NT	-13.13	-0.018	PASS
Band17	5	23825	25	#0	QPSK	LV	NT	-11.33	-0.016	PASS
Band17	5	23825	25	#0	QPSK	NV	NT	-12.59	-0.018	PASS
Band17	5	23825	25	#0	QPSK	HV	NT	-13.10	-0.018	PASS
Band17	5	23825	25	#0	16QAM	LV	NT	-11.23	-0.016	PASS
Band17	5	23825	25	#0	16QAM	NV	NT	-9.30	-0.013	PASS
Band17	5	23825	25	#0	16QAM	HV	NT	-8.57	-0.012	PASS
Band17	10	23780	50	#0	QPSK	LV	NT	-38.02	-0.054	PASS
Band17	10	23780	50	#0	QPSK	NV	NT	-44.57	-0.063	PASS
Band17	10	23780	50	#0	QPSK	HV	NT	-15.66	-0.022	PASS
Band17	10	23780	50	#0	16QAM	LV	NT	-0.69	-0.001	PASS
Band17	10	23780	50	#0	16QAM	NV	NT	-2.15	-0.003	PASS
Band17	10	23780	50	#0	16QAM	HV	NT	-1.19	-0.002	PASS
Band17	10	23790	50	#0	QPSK	LV	NT	0.92	0.001	PASS
Band17	10	23790	50	#0	QPSK	NV	NT	2.66	0.004	PASS
Band17	10	23790	50	#0	QPSK	HV	NT	4.95	0.007	PASS
Band17	10	23790	50	#0	16QAM	LV	NT	7.40	0.010	PASS
Band17	10	23790	50	#0	16QAM	NV	NT	11.37	0.016	PASS
Band17	10	23790	50	#0	16QAM	HV	NT	12.79	0.018	PASS
Band17	10	23800	50	#0	QPSK	LV	NT	-3.20	-0.005	PASS
Band17	10	23800	50	#0	QPSK	NV	NT	-2.60	-0.004	PASS
Band17	10	23800	50	#0	QPSK	HV	NT	-3.25	-0.005	PASS
Band17	10	23800	50	#0	16QAM	LV	NT	-1.63	-0.002	PASS
Band17	10	23800	50	#0	16QAM	NV	NT	2.80	0.004	PASS
Band17	10	23800	50	#0	16QAM	HV	NT	2.82	0.004	PASS

Band	Bandwidth	UL	RB	RB	Modulation	Voltage	Temperatue	Result	Result	Verdict

	(MHz)	Channel	Size	Position		(Vdc)	(C)	(Hz)	(ppm)	
Band17	5	23755	25	#0	QPSK	NV	-30	-5.55	-0.008	PASS
Band17	5	23755	25	#0	QPSK	NV	-20	-3.59	-0.005	PASS
Band17	5	23755	25	#0	QPSK	NV	-10	-3.08	-0.004	PASS
Band17	5	23755	25	#0	QPSK	NV	0	-2.62	-0.004	PASS
Band17	5	23755	25	#0	QPSK	NV	10	-1.87	-0.003	PASS
Band17	5	23755	25	#0	QPSK	NV	20	-1.24	-0.002	PASS
Band17	5	23755	25	#0	QPSK	NV	30	0.99	0.001	PASS
Band17	5	23755	25	#0	QPSK	NV	40	3.02	0.004	PASS
Band17	5	23755	25	#0	QPSK	NV	50	3.95	0.006	PASS
Band17	5	23755	25	#0	16QAM	NV	-30	6.78	0.010	PASS
Band17	5	23755	25	#0	16QAM	NV	-20	8.61	0.012	PASS
Band17	5	23755	25	#0	16QAM	NV	-10	9.38	0.013	PASS
Band17	5	23755	25	#0	16QAM	NV	0	9.76	0.014	PASS
Band17	5	23755	25	#0	16QAM	NV	10	8.84	0.013	PASS
Band17	5	23755	25	#0	16QAM	NV	20	8.38	0.012	PASS
Band17	5	23755	25	#0	16QAM	NV	30	8.04	0.011	PASS
Band17	5	23755	25	#0	16QAM	NV	40	5.31	0.008	PASS
Band17	5	23755	25	#0	16QAM	NV	50	5.02	0.007	PASS
Band17	5	23790	25	#0	QPSK	NV	-30	0.36	0.001	PASS
Band17	5	23790	25	#0	QPSK	NV	-20	0.51	0.001	PASS
Band17	5	23790	25	#0	QPSK	NV	-10	1.09	0.002	PASS
Band17	5	23790	25	#0	QPSK	NV	0	3.25	0.005	PASS
Band17	5	23790	25	#0	QPSK	NV	10	0.00	0.000	PASS
Band17	5	23790	25	#0	QPSK	NV	20	0.00	0.000	PASS
Band17	5	23790	25	#0	QPSK	NV	30	0.00	0.000	PASS
Band17	5	23790	25	#0	QPSK	NV	40	0.00	0.000	PASS
Band17	5	23790	25	#0	QPSK	NV	50	0.00	0.000	PASS
Band17	5	23790	25	#0	16QAM	NV	-30	0.00	0.000	PASS
Band17	5	23790	25	#0	16QAM	NV	-20	0.00	0.000	PASS
Band17	5	23790	25	#0	16QAM	NV	-10	0.00	0.000	PASS
Band17	5	23790	25	#0	16QAM	NV	0	0.00	0.000	PASS
Band17	5	23790	25	#0	16QAM	NV	10	0.00	0.000	PASS
Band17	5	23790	25	#0	16QAM	NV	20	0.00	0.000	PASS
Band17	5	23790	25	#0	16QAM	NV	30	-15.45	-0.022	PASS
Band17	5	23790	25	#0	16QAM	NV	40	-19.14	-0.027	PASS
Band17	5	23790	25	#0	16QAM	NV	50	-20.37	-0.029	PASS
Band17	5	23825	25	#0	QPSK	NV	-30	9.47	0.013	PASS
Band17	5	23825	25	#0	QPSK	NV	-20	8.88	0.012	PASS
Band17	5	23825	25	#0	QPSK	NV	-10	10.74	0.015	PASS
Band17	5	23825	25	#0	QPSK	NV	0	-2.59	-0.004	PASS
Band17	5	23825	25	#0	QPSK	NV	10	-10.26	-0.014	PASS
Band17	5	23825	25	#0	QPSK	NV	20	-15.79	-0.022	PASS

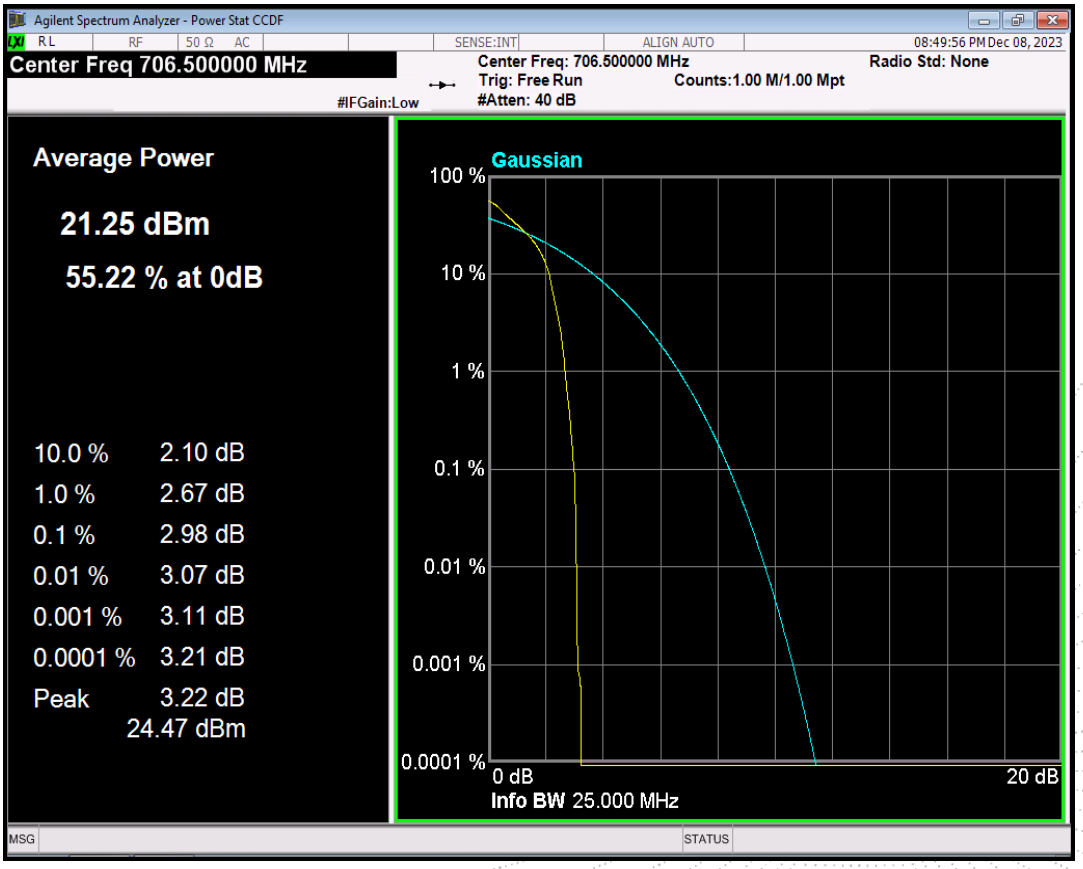
Band17	5	23825	25	#0	QPSK	NV	30	-22.04	-0.031	PASS
Band17	5	23825	25	#0	QPSK	NV	40	-25.71	-0.036	PASS
Band17	5	23825	25	#0	QPSK	NV	50	-31.20	-0.044	PASS
Band17	5	23825	25	#0	16QAM	NV	-30	-34.95	-0.049	PASS
Band17	5	23825	25	#0	16QAM	NV	-20	-37.14	-0.052	PASS
Band17	5	23825	25	#0	16QAM	NV	-10	-37.67	-0.053	PASS
Band17	5	23825	25	#0	16QAM	NV	0	-39.25	-0.055	PASS
Band17	5	23825	25	#0	16QAM	NV	10	-39.63	-0.056	PASS
Band17	5	23825	25	#0	16QAM	NV	20	-40.58	-0.057	PASS
Band17	5	23825	25	#0	16QAM	NV	30	-41.58	-0.058	PASS
Band17	5	23825	25	#0	16QAM	NV	40	-43.70	-0.061	PASS
Band17	5	23825	25	#0	16QAM	NV	50	-43.89	-0.062	PASS
Band17	10	23780	50	#0	QPSK	NV	-30	0.69	0.001	PASS
Band17	10	23780	50	#0	QPSK	NV	-20	-2.76	-0.004	PASS
Band17	10	23780	50	#0	QPSK	NV	-10	-5.58	-0.008	PASS
Band17	10	23780	50	#0	QPSK	NV	0	-6.57	-0.009	PASS
Band17	10	23780	50	#0	QPSK	NV	10	-6.24	-0.009	PASS
Band17	10	23780	50	#0	QPSK	NV	20	-5.79	-0.008	PASS
Band17	10	23780	50	#0	QPSK	NV	30	-7.02	-0.010	PASS
Band17	10	23780	50	#0	QPSK	NV	40	-7.28	-0.010	PASS
Band17	10	23780	50	#0	QPSK	NV	50	-6.88	-0.010	PASS
Band17	10	23780	50	#0	16QAM	NV	-30	-7.00	-0.010	PASS
Band17	10	23780	50	#0	16QAM	NV	-20	-5.39	-0.008	PASS
Band17	10	23780	50	#0	16QAM	NV	-10	-5.25	-0.007	PASS
Band17	10	23780	50	#0	16QAM	NV	0	-3.96	-0.006	PASS
Band17	10	23780	50	#0	16QAM	NV	10	-2.90	-0.004	PASS
Band17	10	23780	50	#0	16QAM	NV	20	-1.36	-0.002	PASS
Band17	10	23780	50	#0	16QAM	NV	30	-0.87	-0.001	PASS
Band17	10	23780	50	#0	16QAM	NV	40	-0.97	-0.001	PASS
Band17	10	23780	50	#0	16QAM	NV	50	-0.24	0.000	PASS
Band17	10	23790	50	#0	QPSK	NV	-30	0.82	0.001	PASS
Band17	10	23790	50	#0	QPSK	NV	-20	-0.74	-0.001	PASS
Band17	10	23790	50	#0	QPSK	NV	-10	-1.66	-0.002	PASS
Band17	10	23790	50	#0	QPSK	NV	0	-0.86	-0.001	PASS
Band17	10	23790	50	#0	QPSK	NV	10	0.20	0.000	PASS
Band17	10	23790	50	#0	QPSK	NV	20	0.72	0.001	PASS
Band17	10	23790	50	#0	QPSK	NV	30	1.16	0.002	PASS
Band17	10	23790	50	#0	QPSK	NV	40	4.05	0.006	PASS
Band17	10	23790	50	#0	QPSK	NV	50	7.12	0.010	PASS
Band17	10	23790	50	#0	16QAM	NV	-30	9.10	0.013	PASS
Band17	10	23790	50	#0	16QAM	NV	-20	10.97	0.015	PASS
Band17	10	23790	50	#0	16QAM	NV	-10	11.00	0.015	PASS
Band17	10	23790	50	#0	16QAM	NV	0	11.70	0.016	PASS

Band17	10	23790	50	#0	16QAM	NV	10	12.90	0.018	PASS
Band17	10	23790	50	#0	16QAM	NV	20	14.36	0.020	PASS
Band17	10	23790	50	#0	16QAM	NV	30	16.61	0.023	PASS
Band17	10	23790	50	#0	16QAM	NV	40	16.26	0.023	PASS
Band17	10	23790	50	#0	16QAM	NV	50	17.64	0.025	PASS
Band17	10	23800	50	#0	QPSK	NV	-30	-1.42	-0.002	PASS
Band17	10	23800	50	#0	QPSK	NV	-20	-2.65	-0.004	PASS
Band17	10	23800	50	#0	QPSK	NV	-10	-2.68	-0.004	PASS
Band17	10	23800	50	#0	QPSK	NV	0	-3.35	-0.005	PASS
Band17	10	23800	50	#0	QPSK	NV	10	-2.42	-0.003	PASS
Band17	10	23800	50	#0	QPSK	NV	20	-1.34	-0.002	PASS
Band17	10	23800	50	#0	QPSK	NV	30	0.79	0.001	PASS
Band17	10	23800	50	#0	QPSK	NV	40	2.00	0.003	PASS
Band17	10	23800	50	#0	QPSK	NV	50	2.23	0.003	PASS
Band17	10	23800	50	#0	16QAM	NV	-30	5.11	0.007	PASS
Band17	10	23800	50	#0	16QAM	NV	-20	7.20	0.010	PASS
Band17	10	23800	50	#0	16QAM	NV	-10	9.84	0.014	PASS
Band17	10	23800	50	#0	16QAM	NV	0	9.94	0.014	PASS
Band17	10	23800	50	#0	16QAM	NV	10	10.24	0.014	PASS
Band17	10	23800	50	#0	16QAM	NV	20	10.86	0.015	PASS
Band17	10	23800	50	#0	16QAM	NV	30	11.69	0.016	PASS
Band17	10	23800	50	#0	16QAM	NV	40	10.27	0.014	PASS
Band17	10	23800	50	#0	16QAM	NV	50	10.64	0.015	PASS

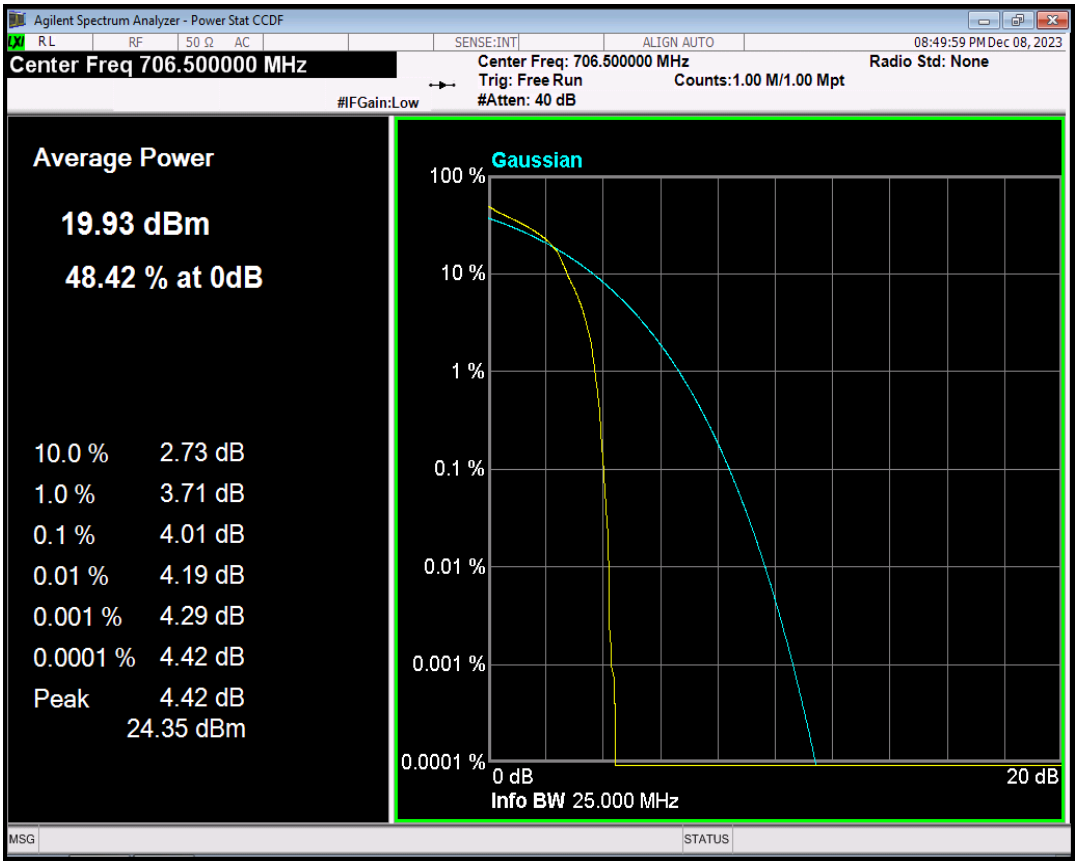
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band17	5	23755	1	#0	QPSK	2.98	13	PASS
Band17	5	23755	1	#0	16QAM	4.01	13	PASS
Band17	5	23790	1	#0	QPSK	3.56	13	PASS
Band17	5	23790	1	#0	16QAM	4.60	13	PASS
Band17	5	23825	1	#0	QPSK	4.79	13	PASS
Band17	5	23825	1	#0	16QAM	5.74	13	PASS
Band17	10	23780	1	#0	QPSK	2.90	13	PASS
Band17	10	23780	1	#0	16QAM	3.86	13	PASS
Band17	10	23790	1	#0	QPSK	2.78	13	PASS
Band17	10	23790	1	#0	16QAM	3.60	13	PASS
Band17	10	23800	1	#0	QPSK	2.87	13	PASS
Band17	10	23800	1	#0	16QAM	4.07	13	PASS

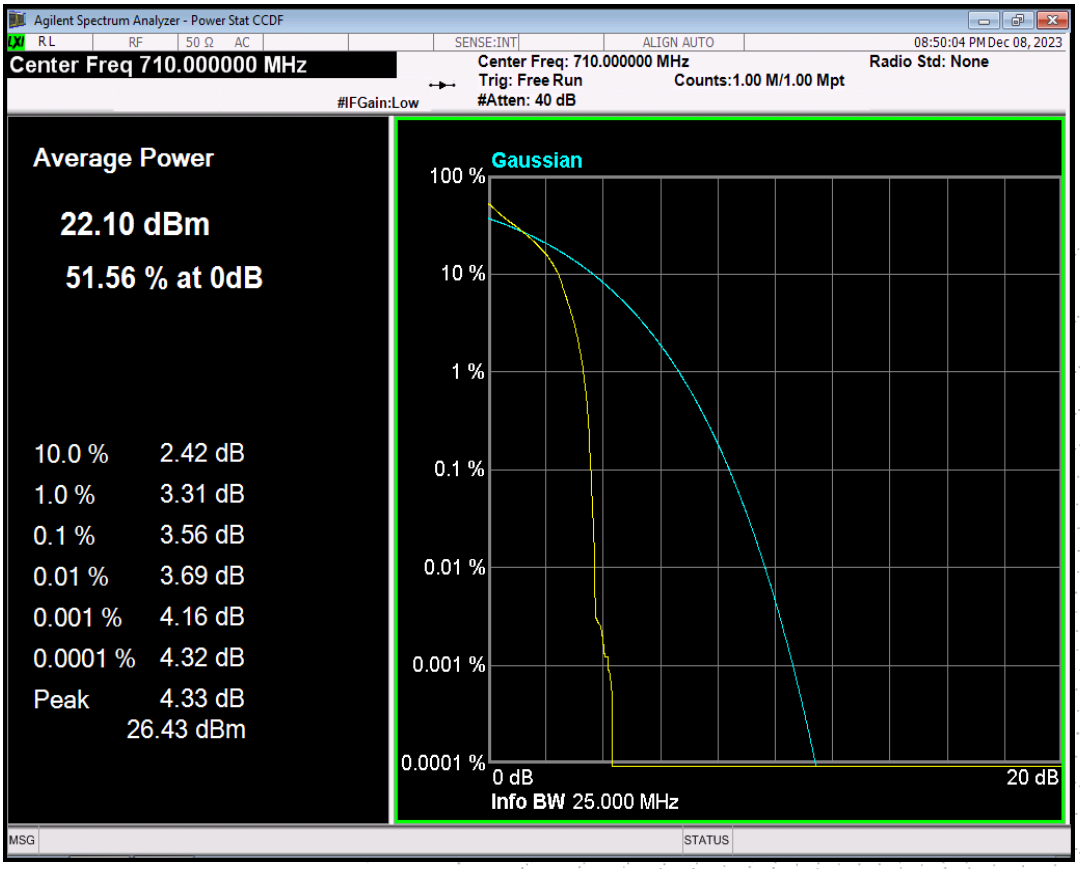
Band17 QPSK BW=5MHz Channel=23755 RB Size=1 Position=#0



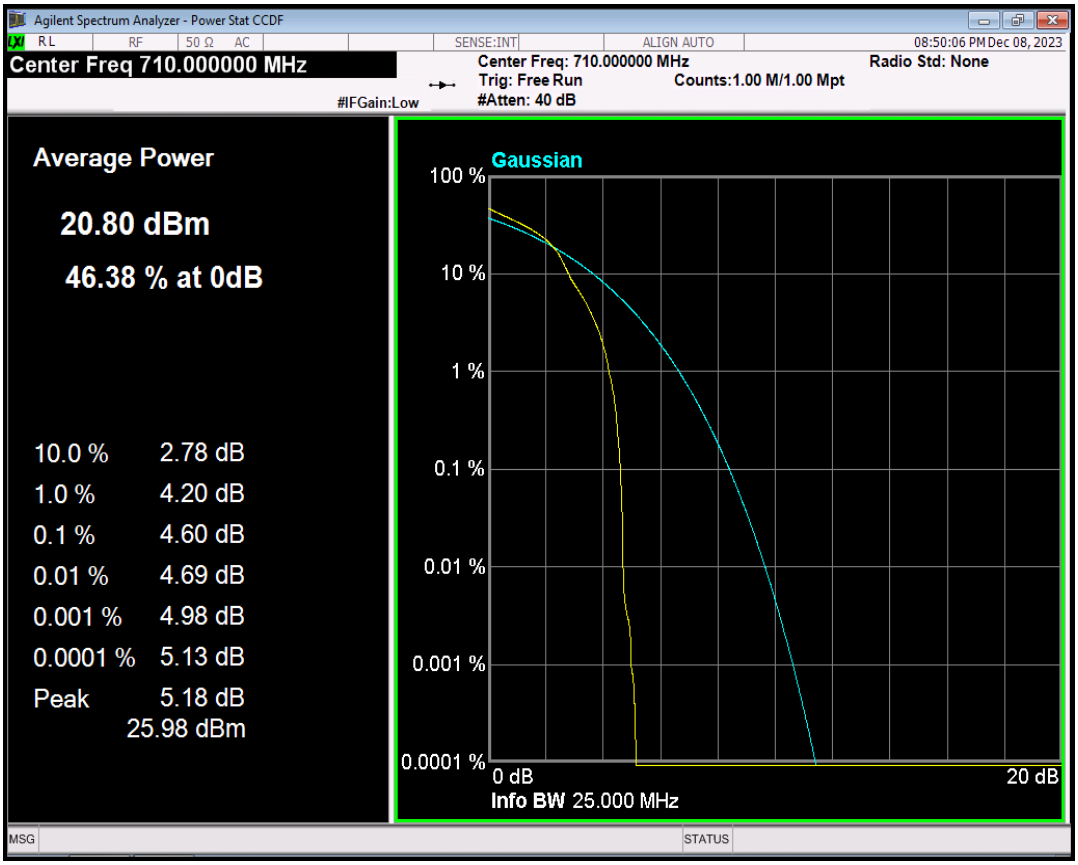
Band17 16QAM BW=5MHz Channel=23755 RB Size=1 Position=#0



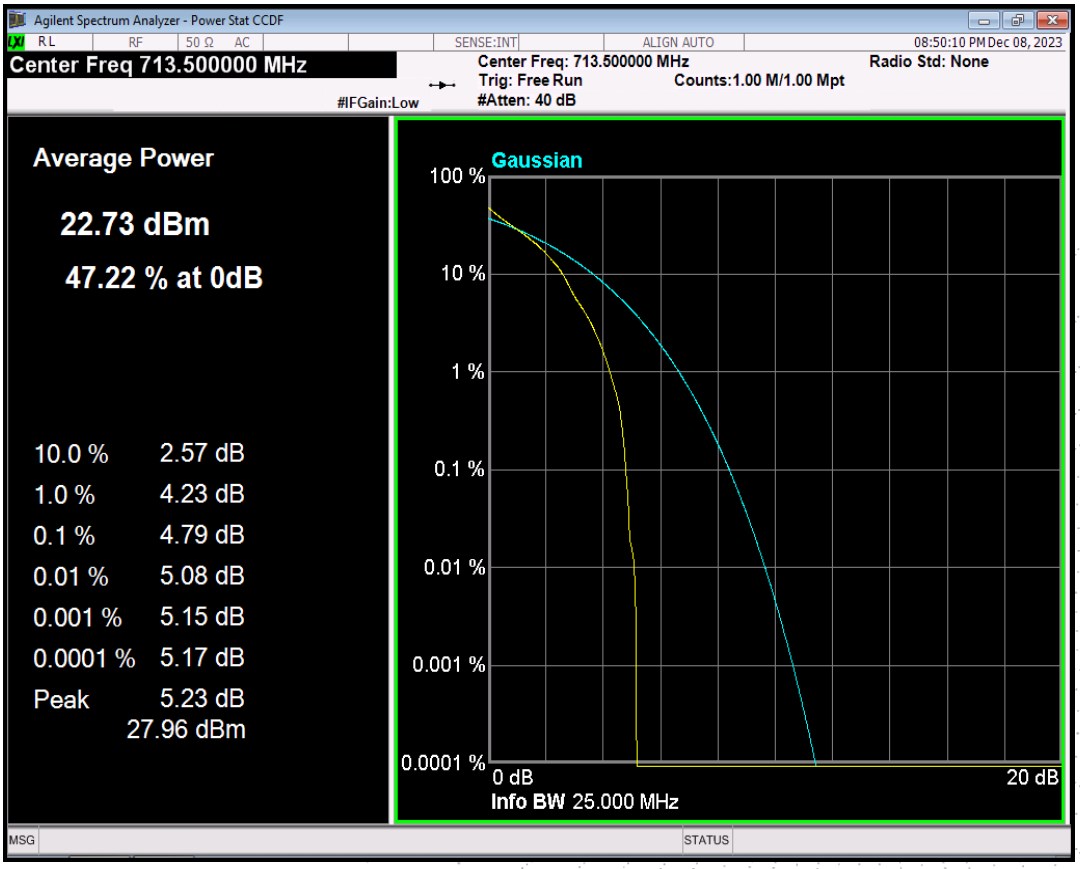
Band17 QPSK BW=5MHz Channel=23790 RB Size=1 Position=#0



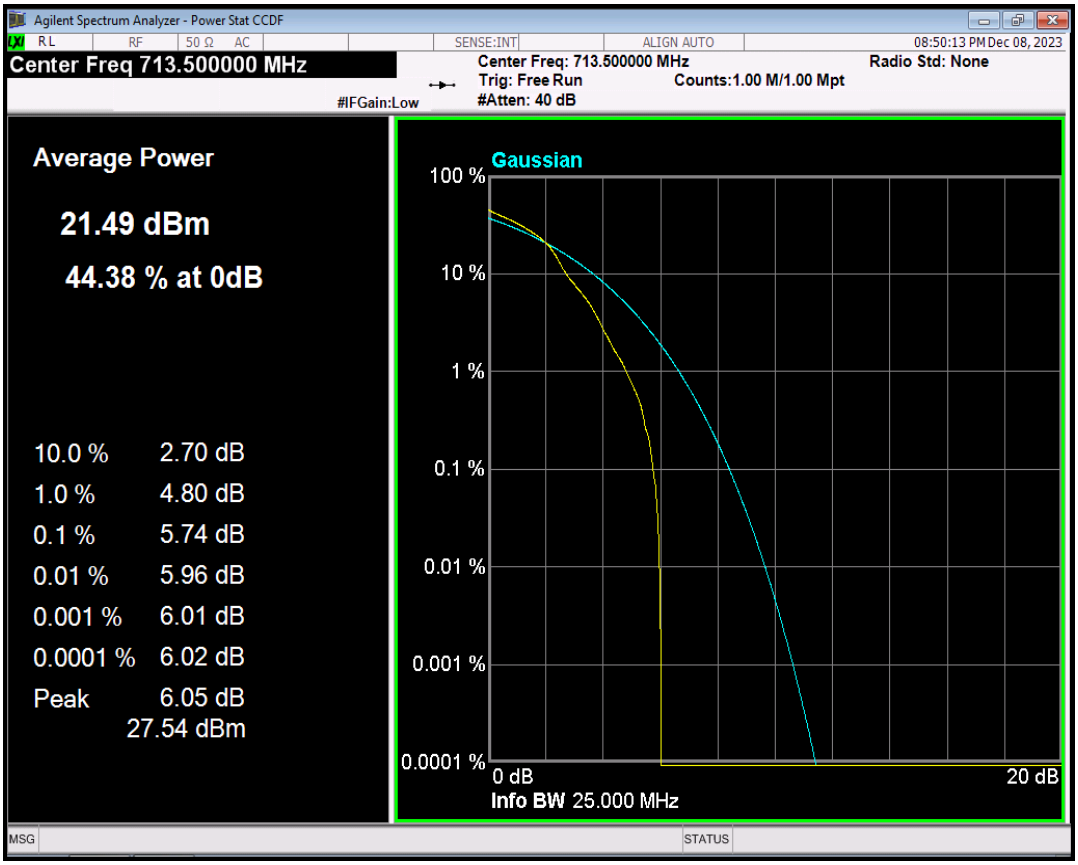
Band17 16QAM BW=5MHz Channel=23790 RB Size=1 Position=#0



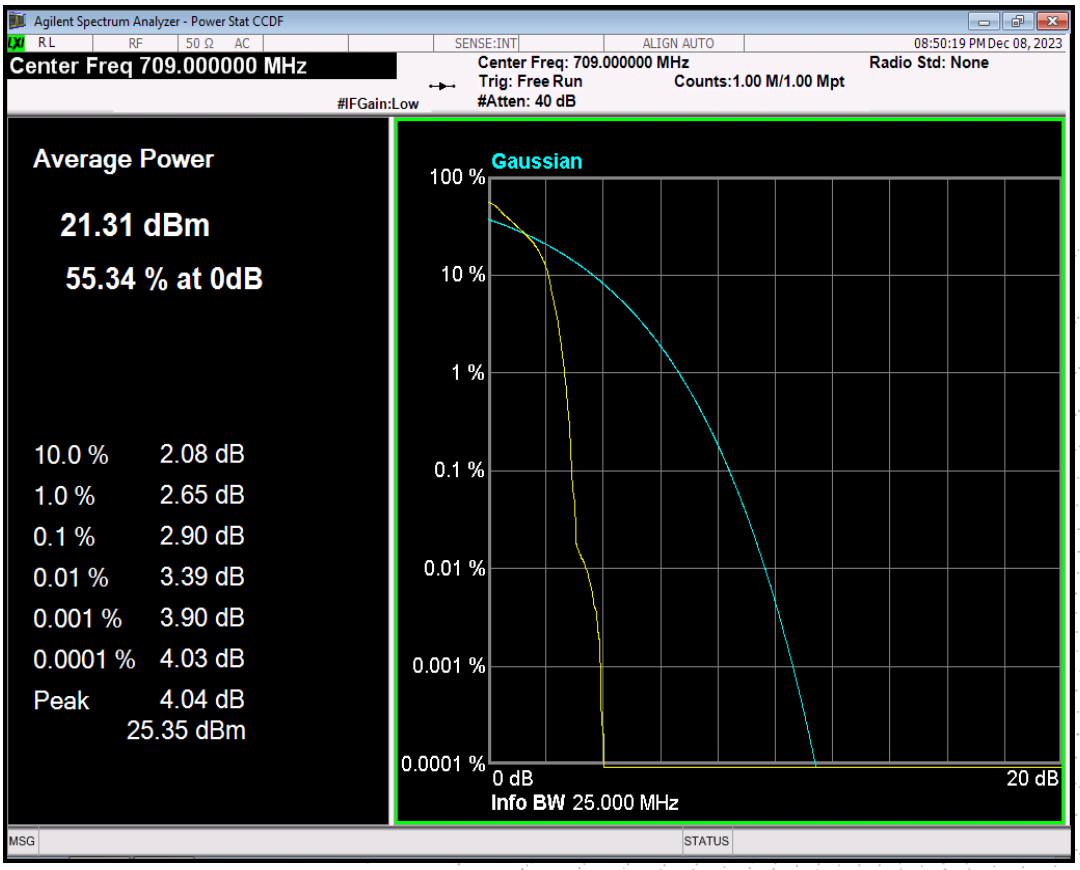
Band17 QPSK BW=5MHz Channel=23825 RB Size=1 Position=#0



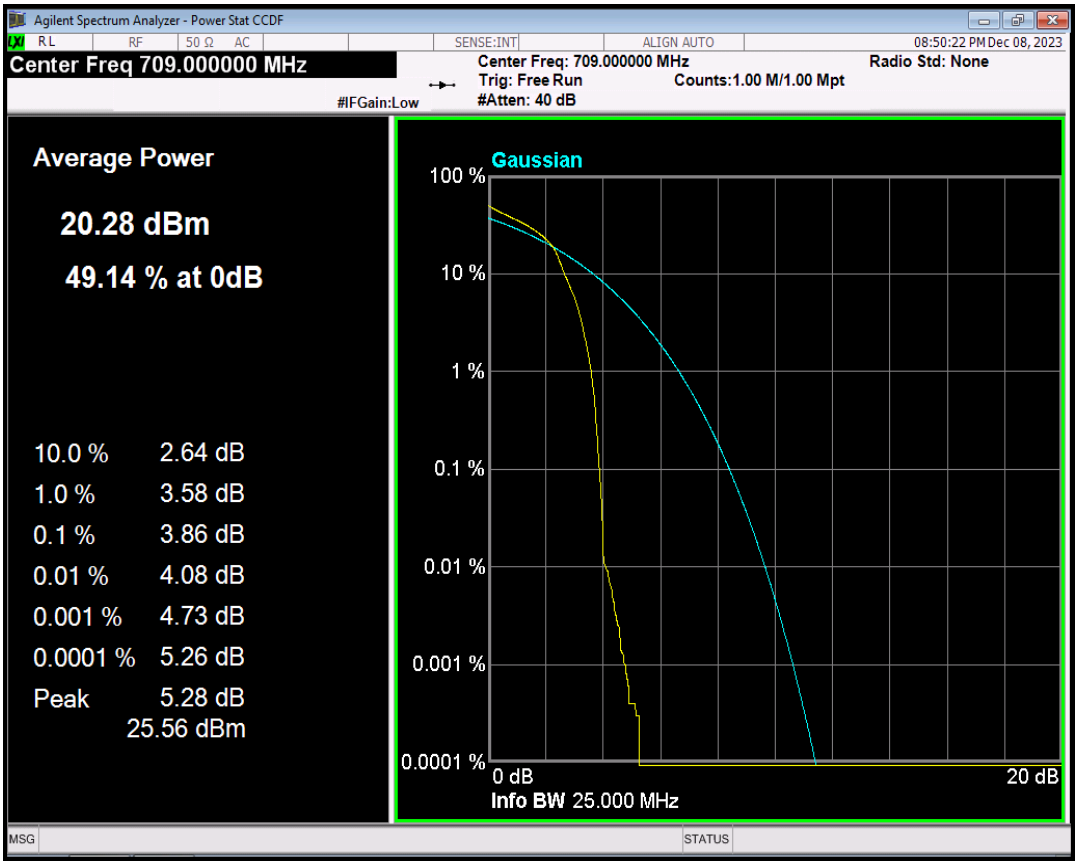
Band17 16QAM BW=5MHz Channel=23825 RB Size=1 Position=#0



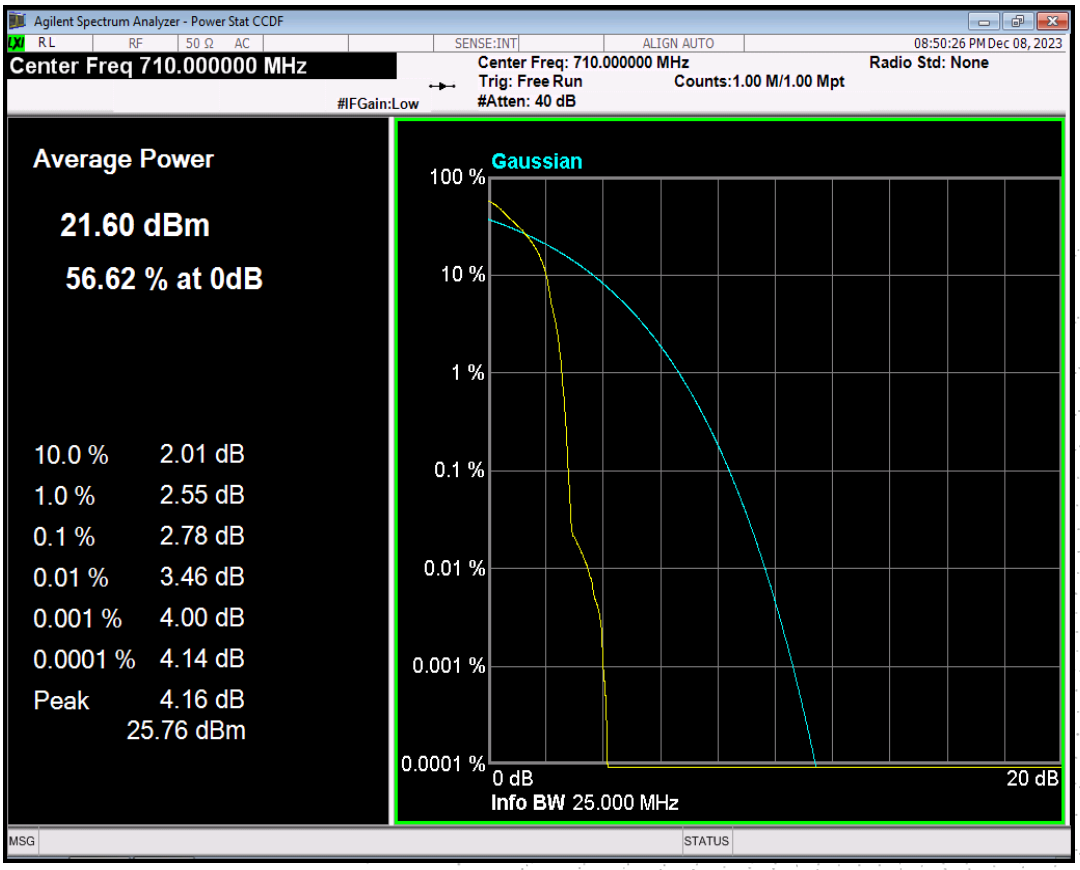
Band17 QPSK BW=10MHz Channel=23780 RB Size=1 Position=#0



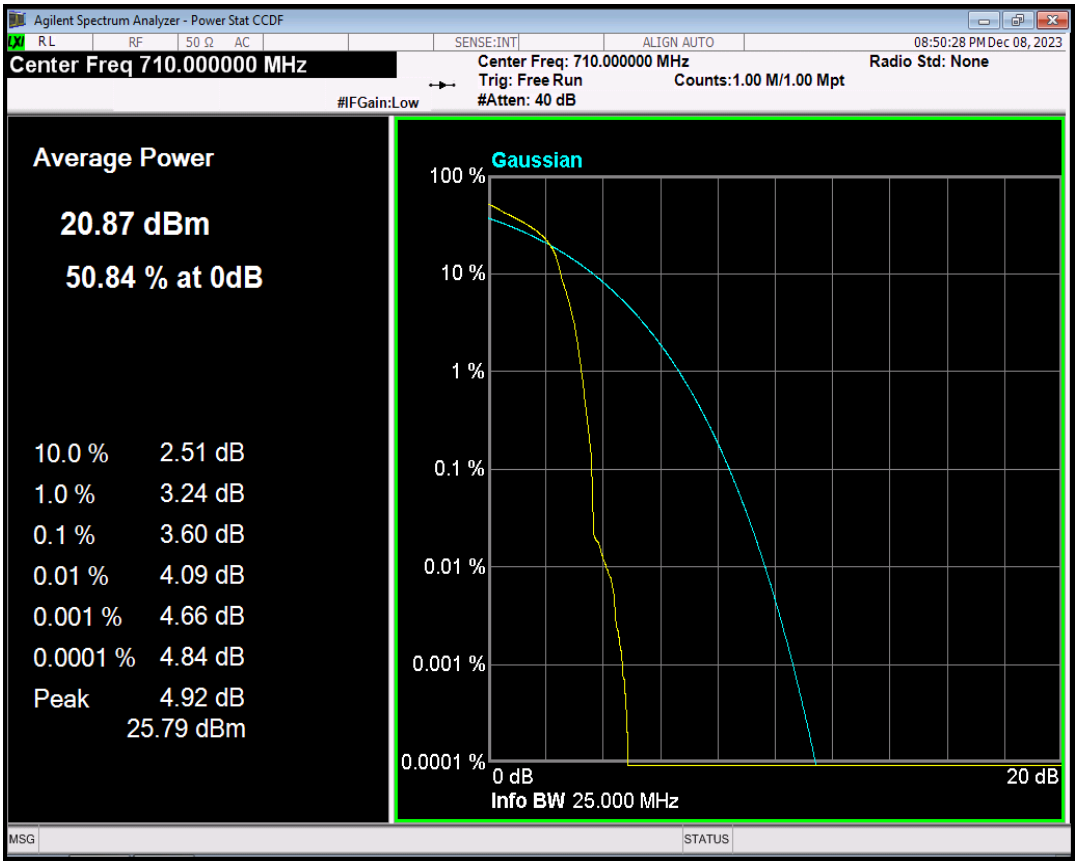
Band17 16QAM BW=10MHz Channel=23780 RB Size=1 Position=#0



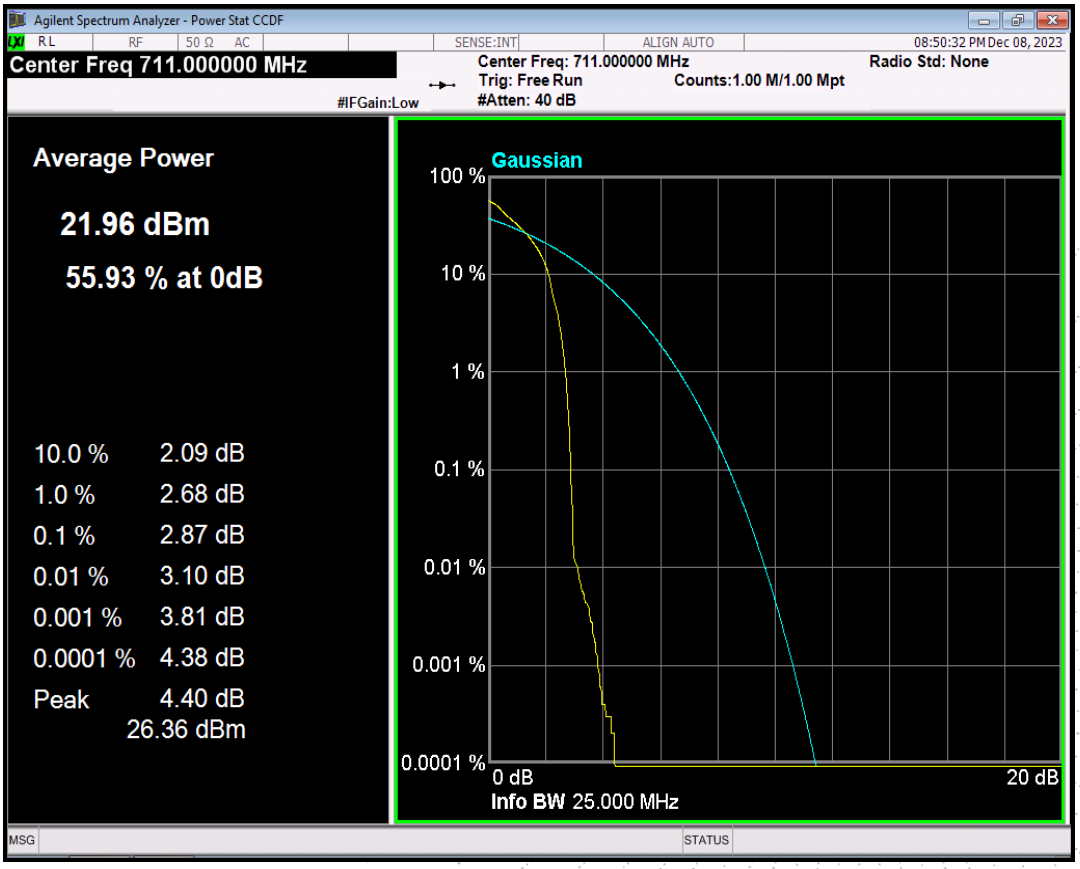
Band17 QPSK BW=10MHz Channel=23790 RB Size=1 Position=#0



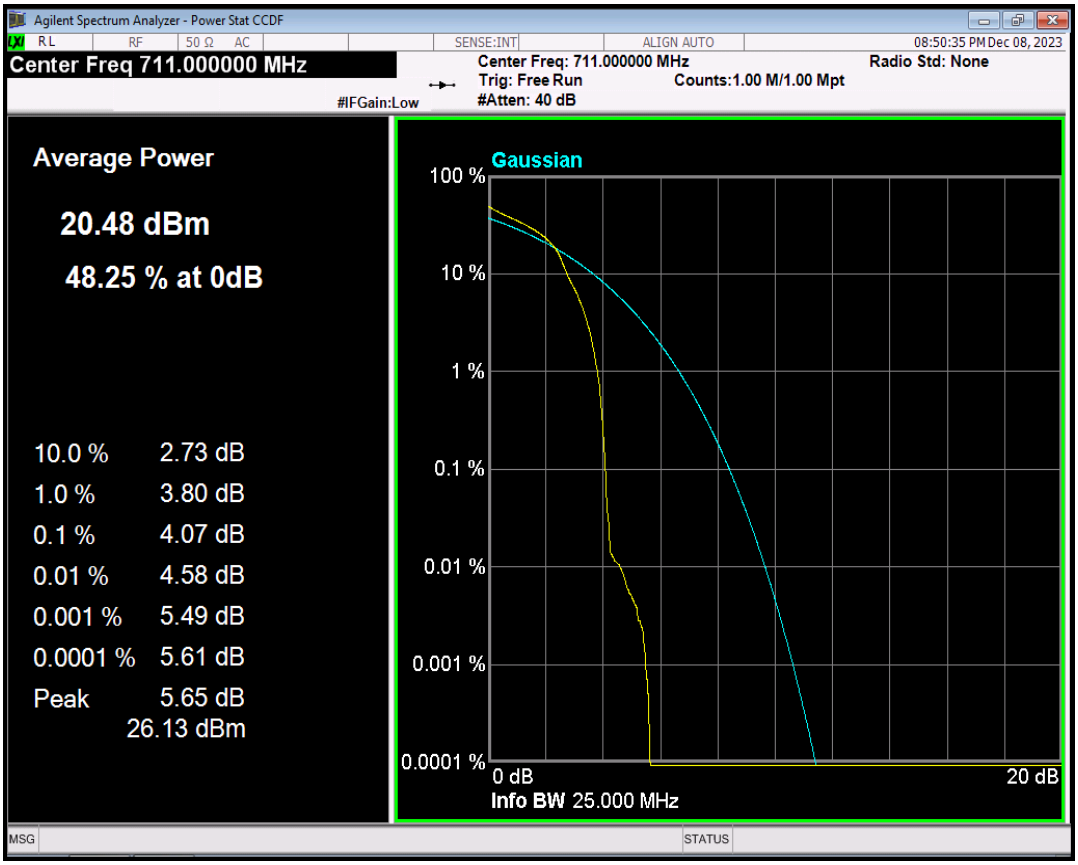
Band17 16QAM BW=10MHz Channel=23790 RB Size=1 Position=#0



Band17 QPSK BW=10MHz Channel=23800 RB Size=1 Position=#0



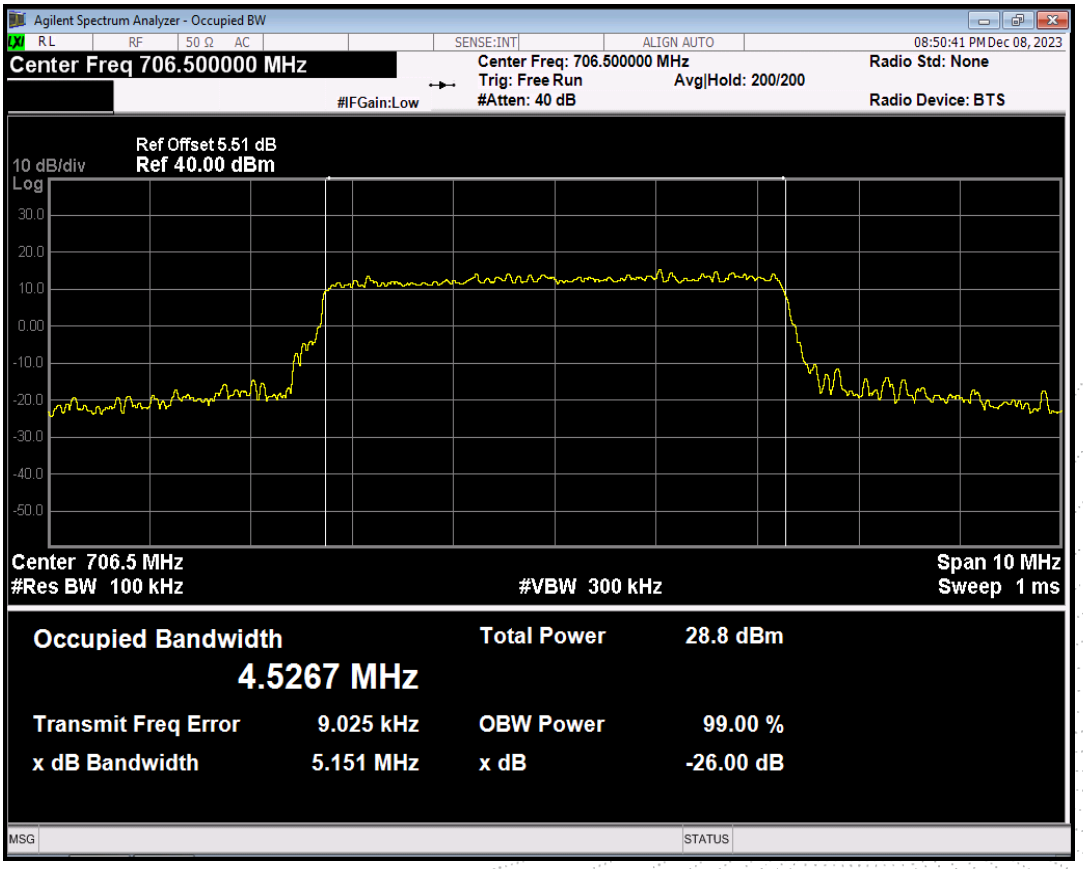
Band17 16QAM BW=10MHz Channel=23800 RB Size=1 Position=#0


Agilent Spectrum Analyzer - Power Stat CCDF
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
08:50:35 PM Dec 08, 2023
Center Freq 711.000000 MHz
Center Freq: 711.000000 MHz
Trig: Free Run
#Atten: 40 dB
Counts:1.00 M/1.00 Mpt
Radio Std: None
#IFGain:Low
Average Power
20.48 dBm
48.25 % at 0dB
10.0 % 2.73 dB
1.0 % 3.80 dB
0.1 % 4.07 dB
0.01 % 4.58 dB
0.001 % 5.49 dB
0.0001 % 5.61 dB
Peak 5.65 dB
26.13 dBm
Gaussian
100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB
20 dB
Info BW 25.000 MHz
MSG
STATUS

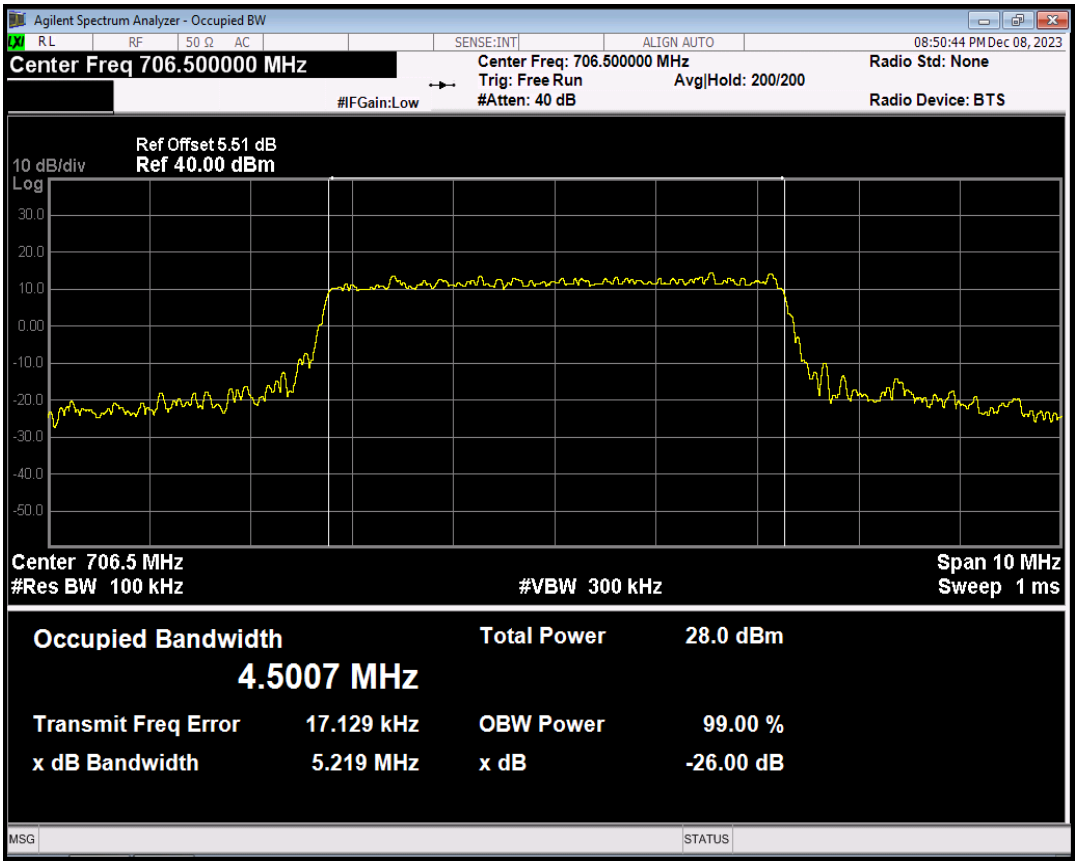
Appendix 4. Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band17	5	23755	25	#0	QPSK	4.527	5.151	PASS
Band17	5	23755	25	#0	16QAM	4.501	5.219	PASS
Band17	5	23790	25	#0	QPSK	4.500	5.127	PASS
Band17	5	23790	25	#0	16QAM	4.511	4.948	PASS
Band17	5	23825	25	#0	QPSK	4.514	5.072	PASS
Band17	5	23825	25	#0	16QAM	4.527	5.232	PASS
Band17	10	23780	50	#0	QPSK	8.970	10.002	PASS
Band17	10	23780	50	#0	16QAM	9.010	10.029	PASS
Band17	10	23790	50	#0	QPSK	8.994	9.835	PASS
Band17	10	23790	50	#0	16QAM	8.994	9.832	PASS
Band17	10	23800	50	#0	QPSK	9.009	9.870	PASS
Band17	10	23800	50	#0	16QAM	8.981	10.271	PASS

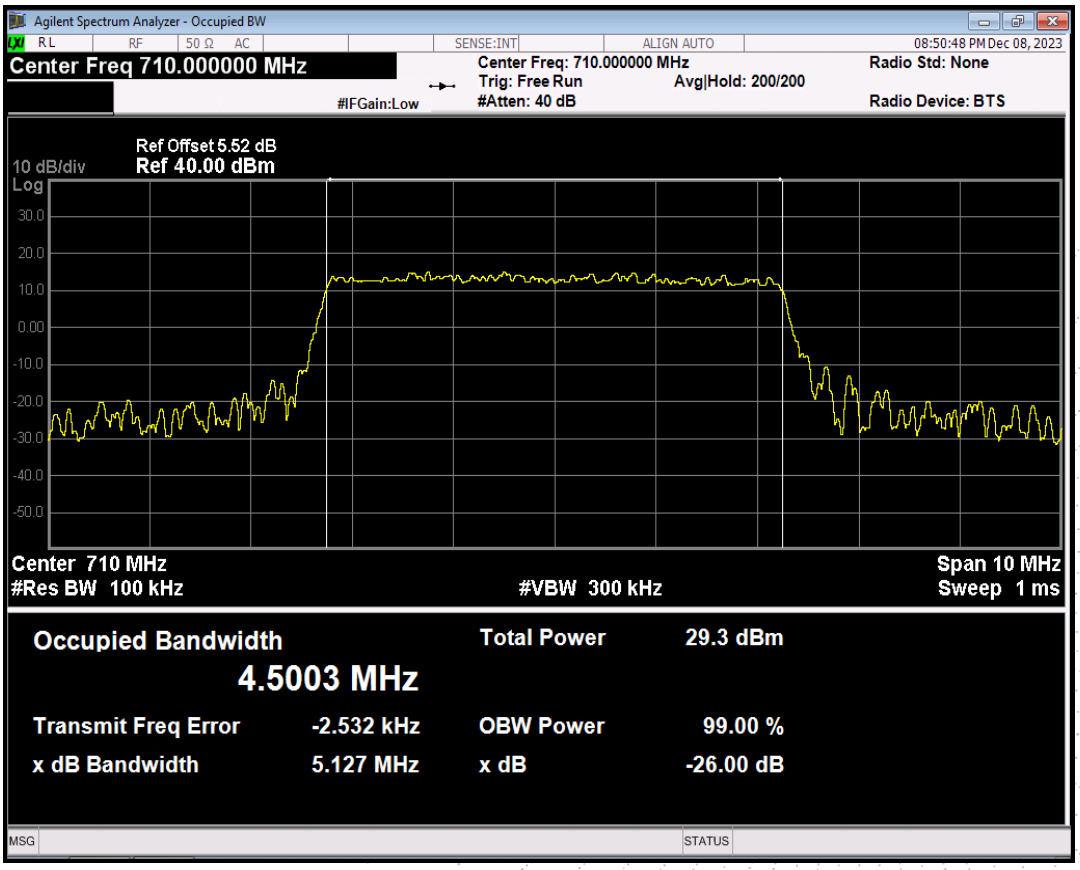
Band17 QPSK BW=5MHz Channel=23755 RB Size=25 Position=#0



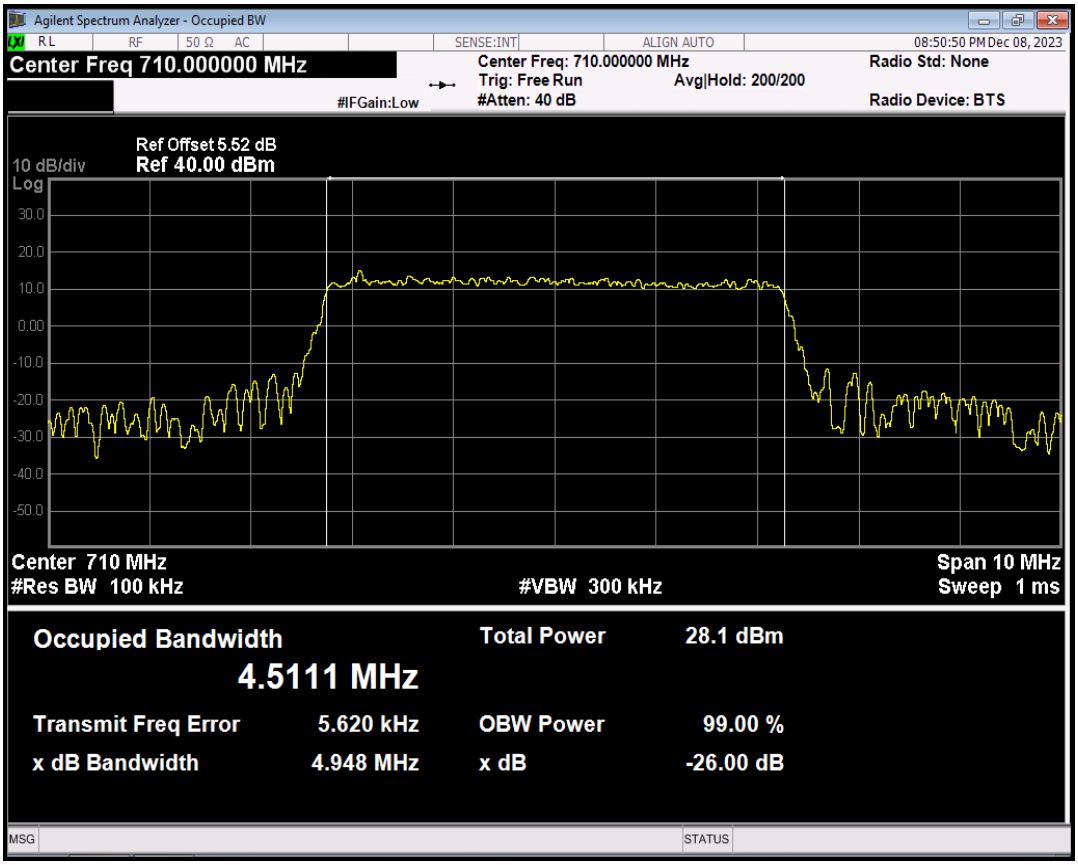
Band17 16QAM BW=5MHz Channel=23755 RB Size=25 Position=#0



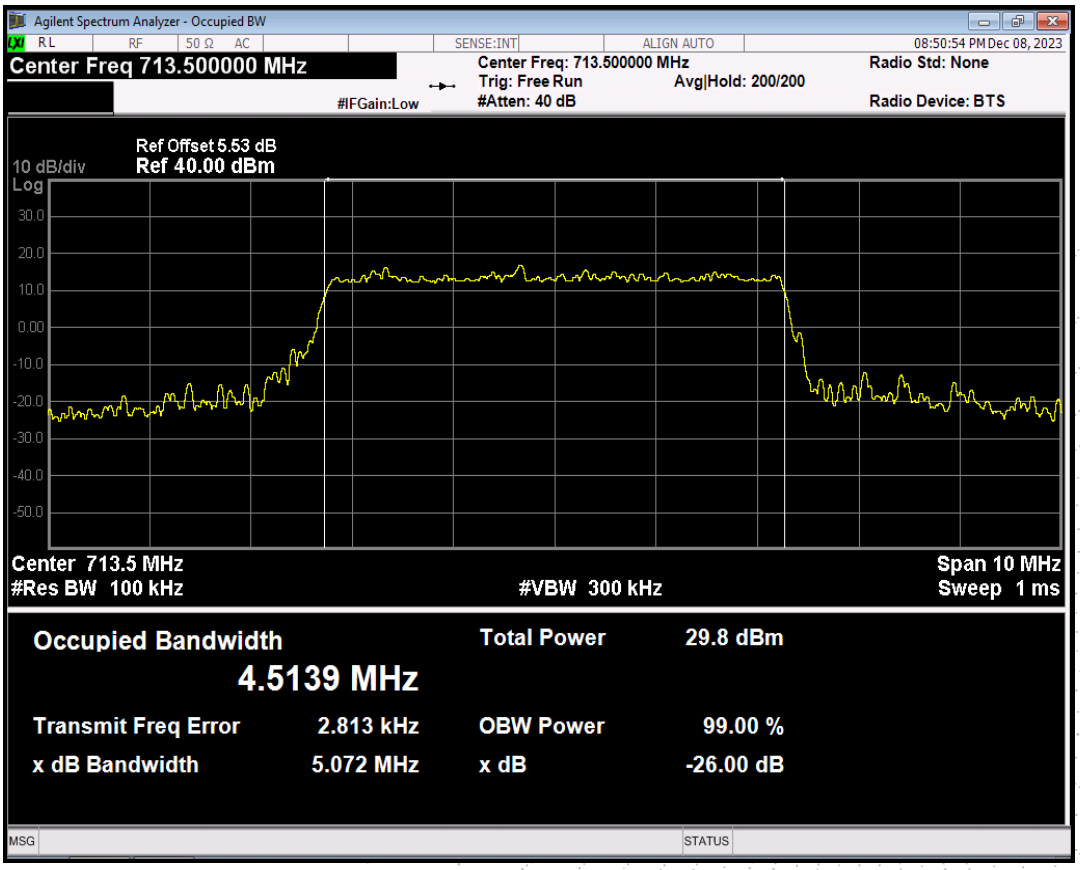
Band17 QPSK BW=5MHz Channel=23790 RB Size=25 Position=#0



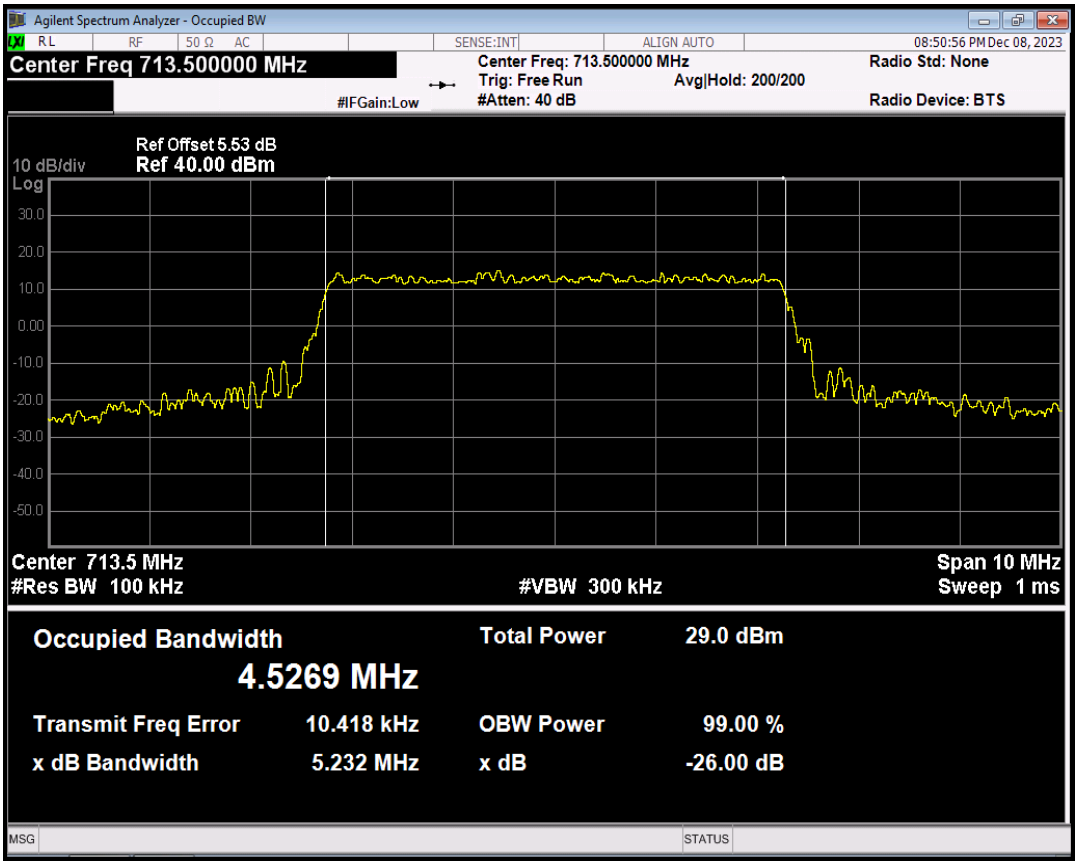
Band17 16QAM BW=5MHz Channel=23790 RB Size=25 Position=#0



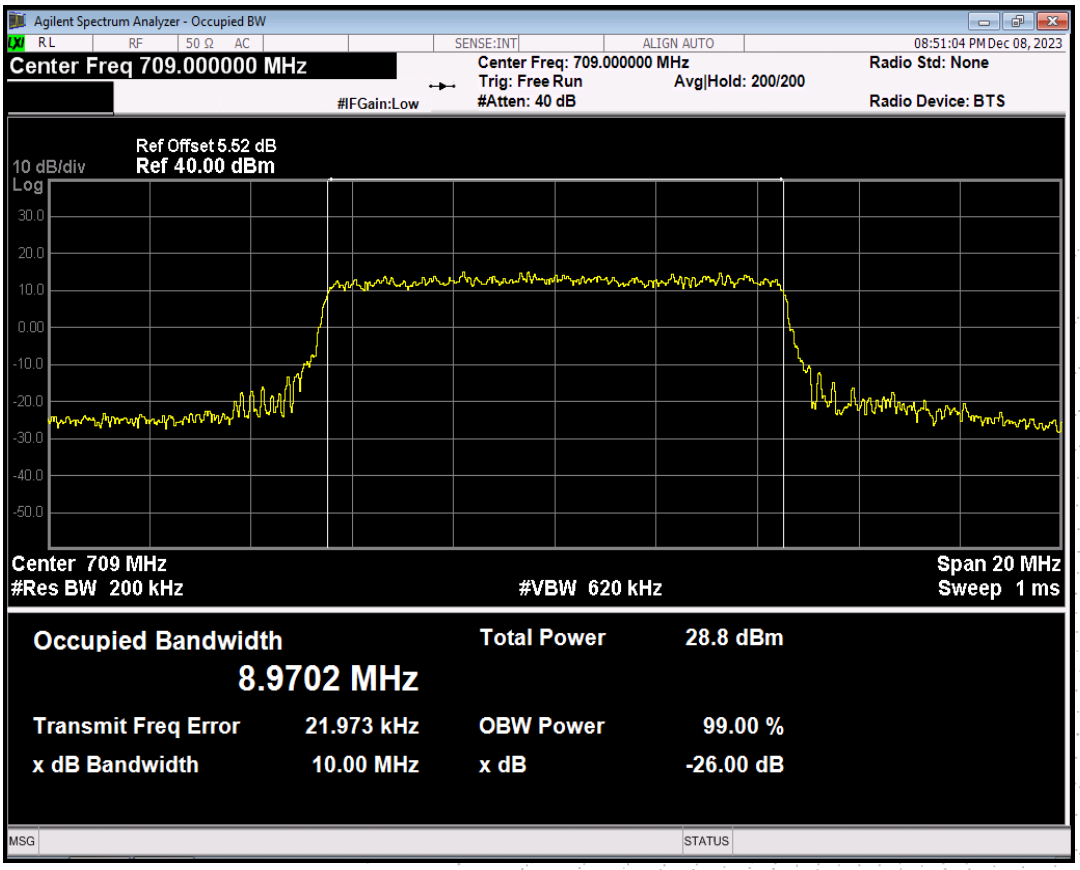
Band17 QPSK BW=5MHz Channel=23825 RB Size=25 Position=#0



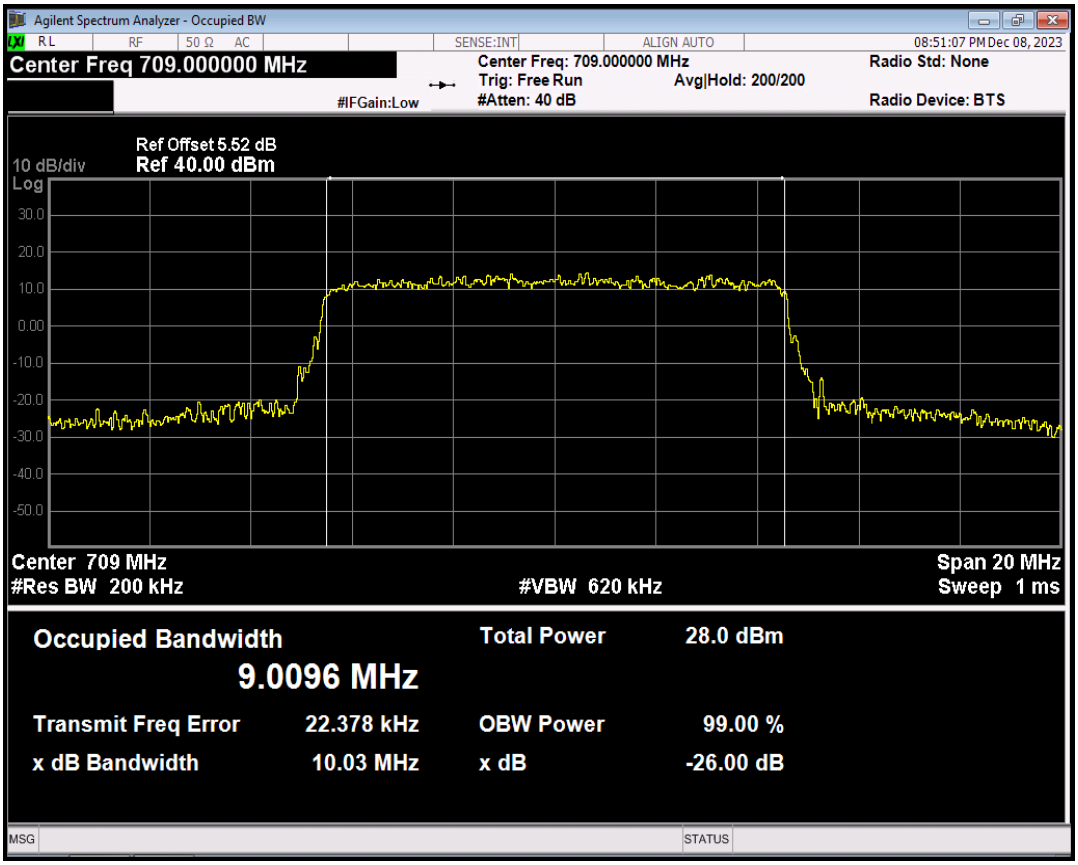
Band17 16QAM BW=5MHz Channel=23825 RB Size=25 Position=#0



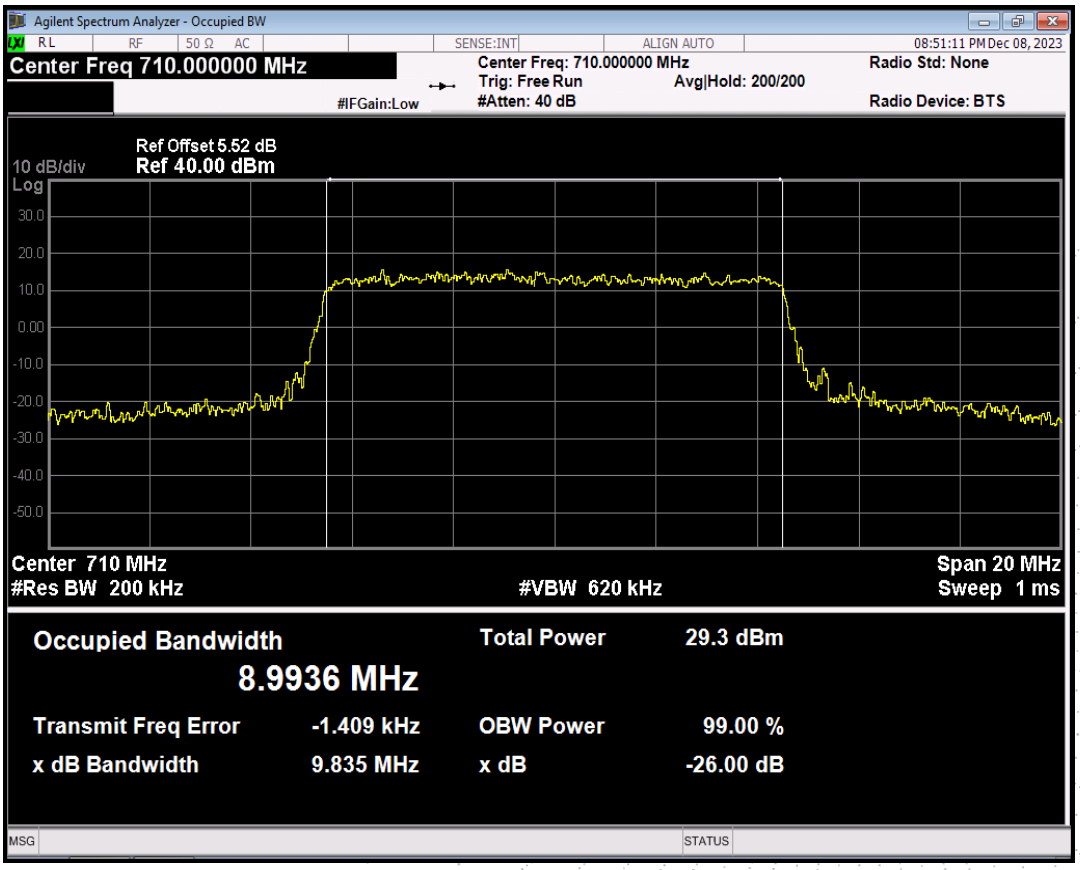
Band17 QPSK BW=10MHz Channel=23780 RB Size=50 Position=#0



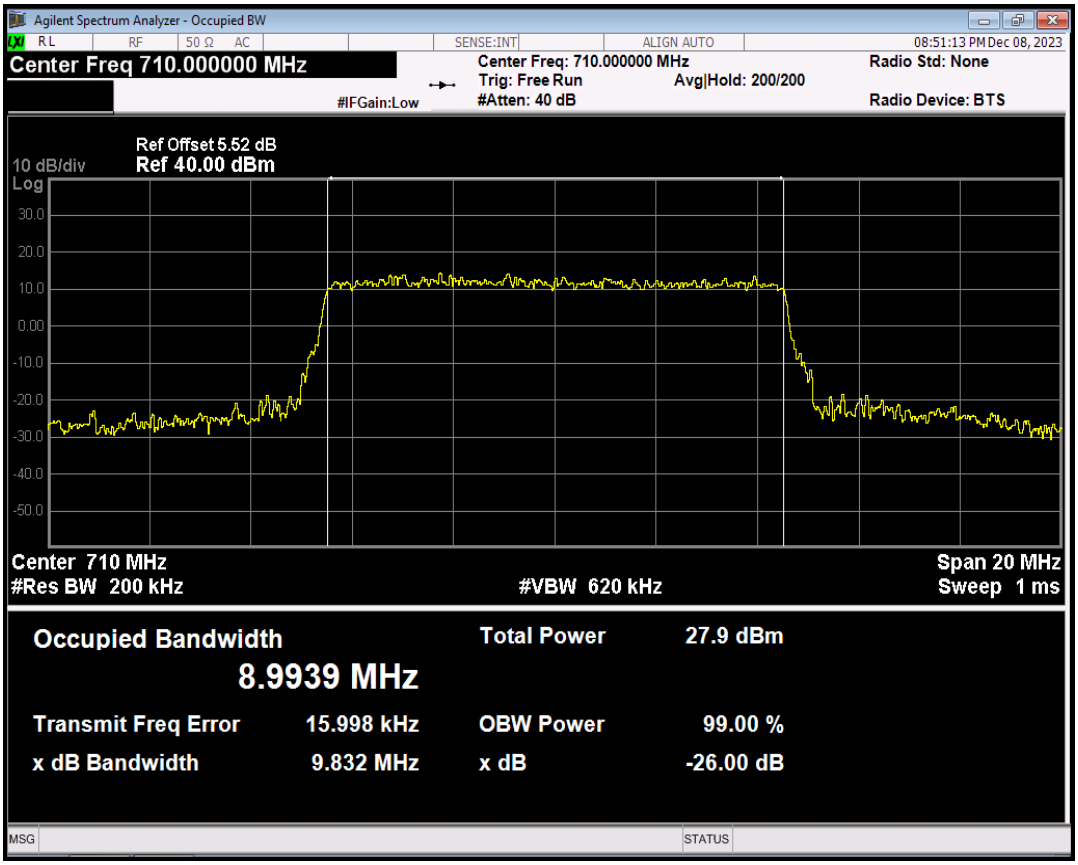
Band17 16QAM BW=10MHz Channel=23780 RB Size=50 Position=#0



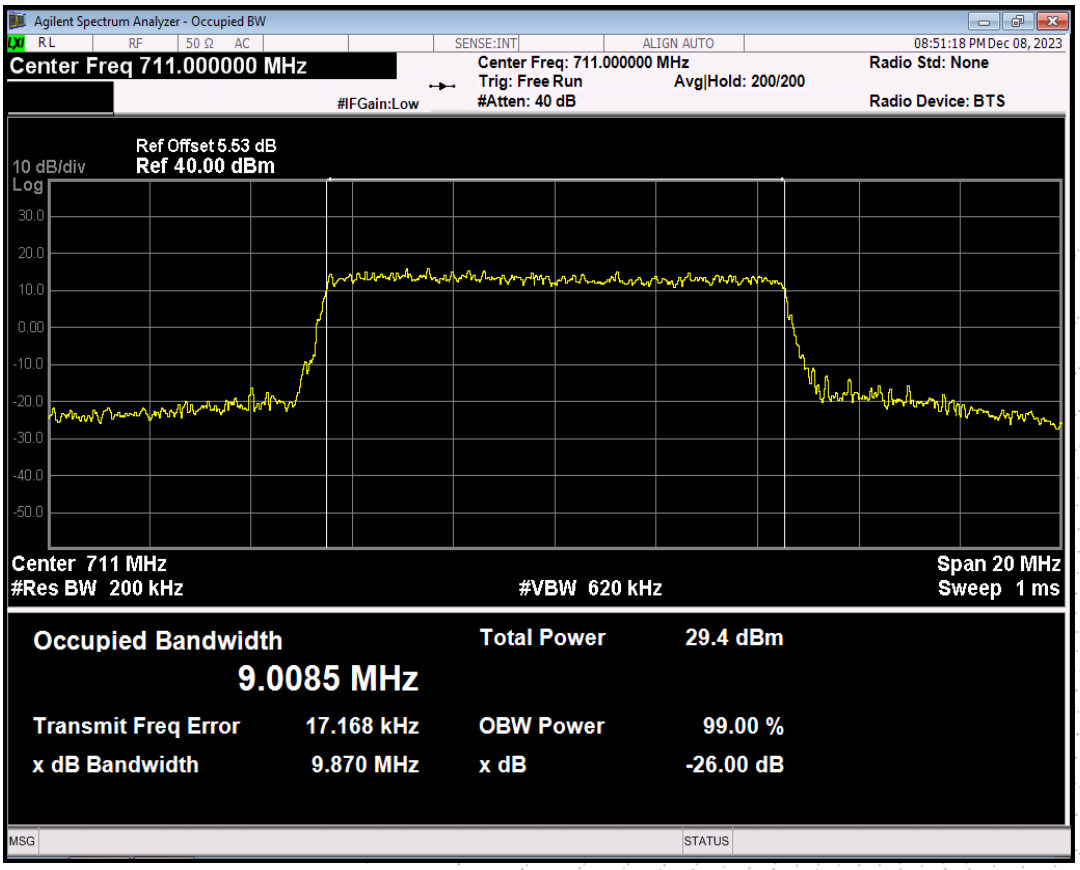
Band17 QPSK BW=10MHz Channel=23790 RB Size=50 Position=#0



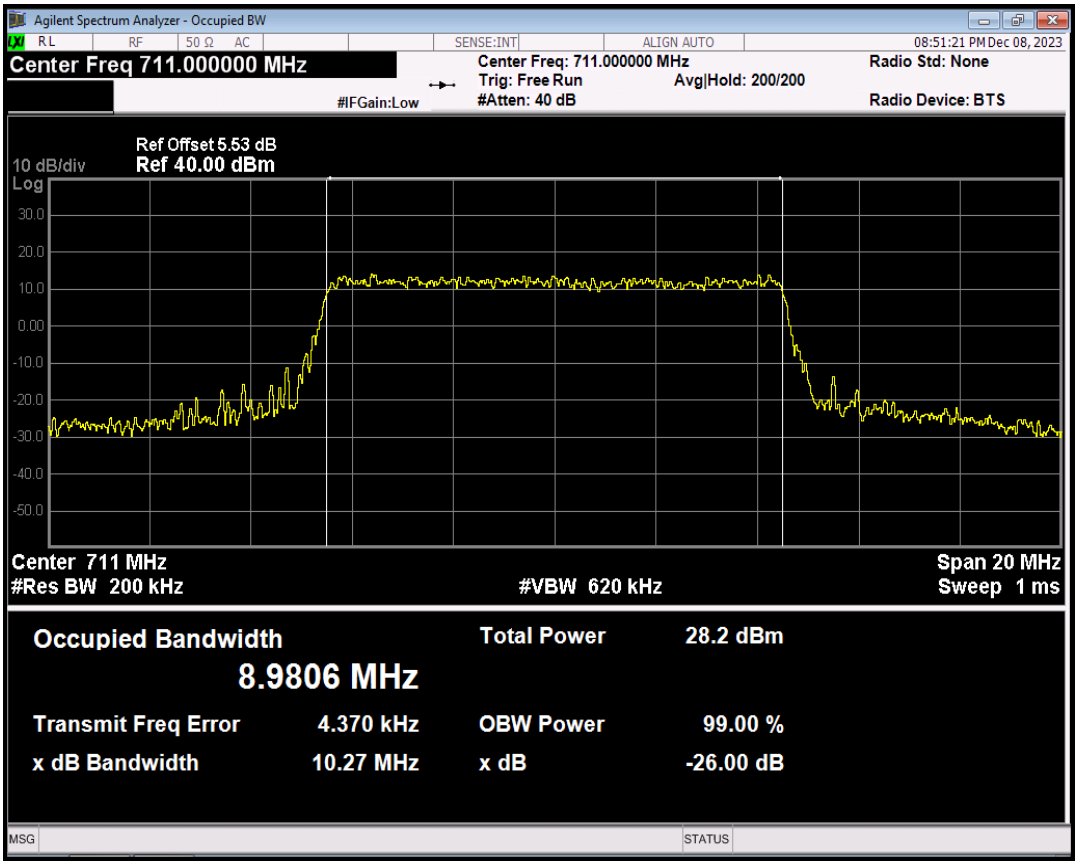
Band17 16QAM BW=10MHz Channel=23790 RB Size=50 Position=#0



Band17 QPSK BW=10MHz Channel=23800 RB Size=50 Position=#0



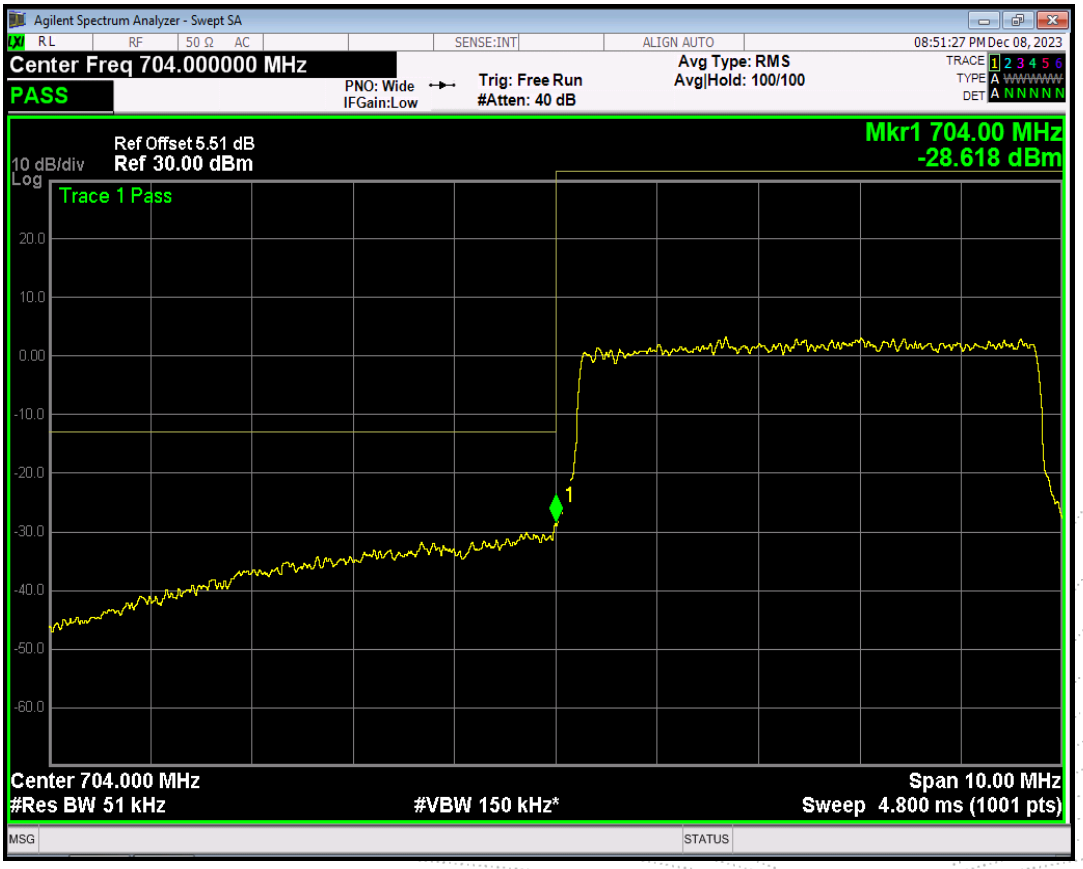
Band17 16QAM BW=10MHz Channel=23800 RB Size=50 Position=#0


Agilent Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
08:51:21 PM Dec 08, 2023
Center Freq 711.000000 MHz
Center Freq: 711.000000 MHz
Trig: Free Run
Avg|Hold: 200/200
#Atten: 40 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Ref Offset 5.53 dB
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Center 711 MHz
#Res BW 200 kHz
#VBW 620 kHz
Span 20 MHz
Sweep 1 ms
Occupied Bandwidth
8.9806 MHz
Total Power 28.2 dBm
Transmit Freq Error 4.370 kHz
OBW Power 99.00 %
x dB Bandwidth 10.27 MHz
x dB -26.00 dB
MSG
STATUS

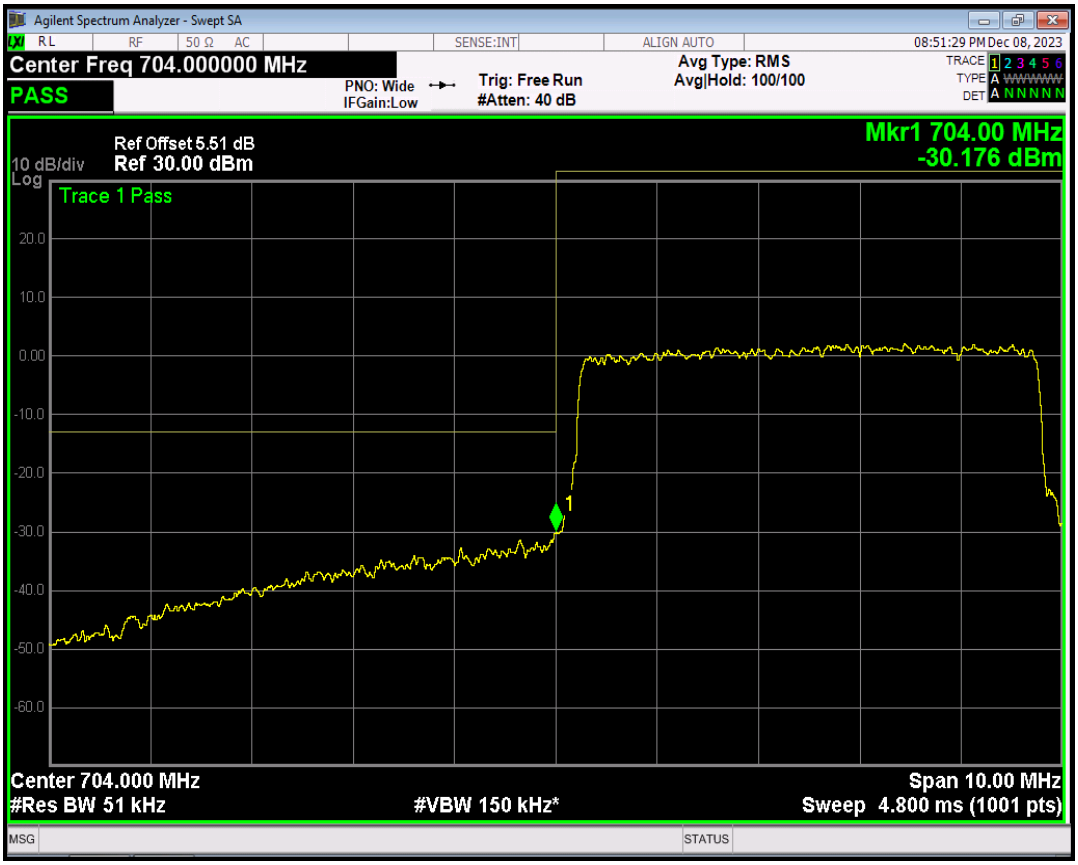
Appendix 5. Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band17	5	23755	25	#0	QPSK	704.00	-28.61	-13	PASS
Band17	5	23755	25	#0	16QAM	704.00	-30.17	-13	PASS
Band17	5	23825	25	#0	QPSK	716.00	-28.52	-13	PASS
Band17	5	23825	25	#0	16QAM	716.01	-27.50	-13	PASS
Band17	10	23780	50	#0	QPSK	704.00	-32.94	-13	PASS
Band17	10	23780	50	#0	16QAM	703.98	-35.99	-13	PASS
Band17	10	23800	50	#0	QPSK	716.00	-30.08	-13	PASS
Band17	10	23800	50	#0	16QAM	716.02	-32.61	-13	PASS

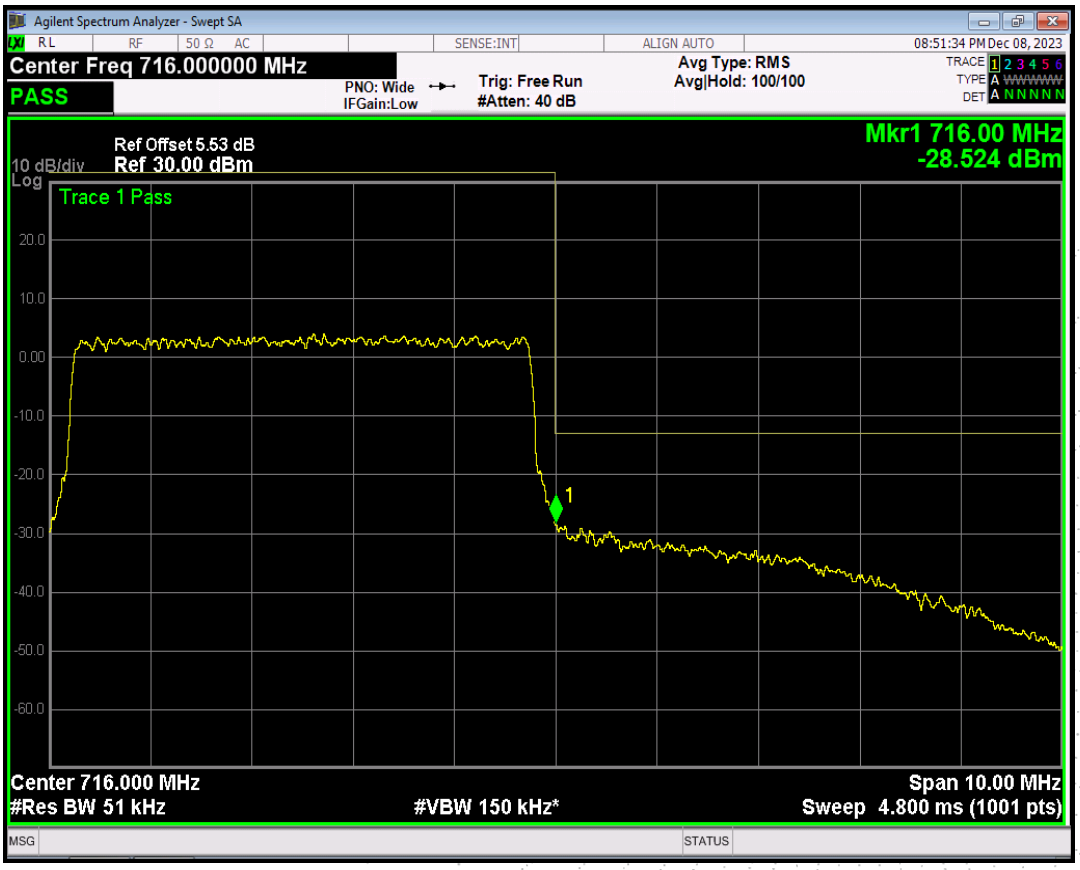
Band17 QPSK BW=5MHz Channel=23755 RB Size=25 Position=#0



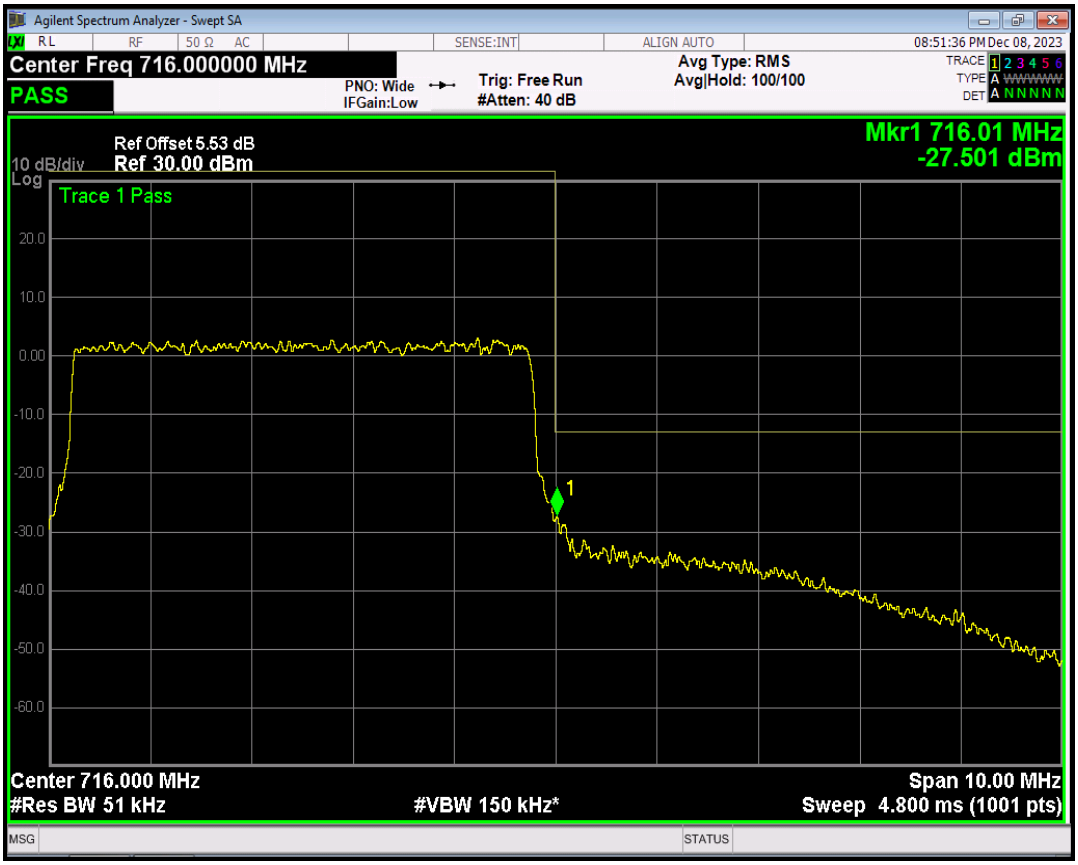
Band17 16QAM BW=5MHz Channel=23755 RB Size=25 Position=#0



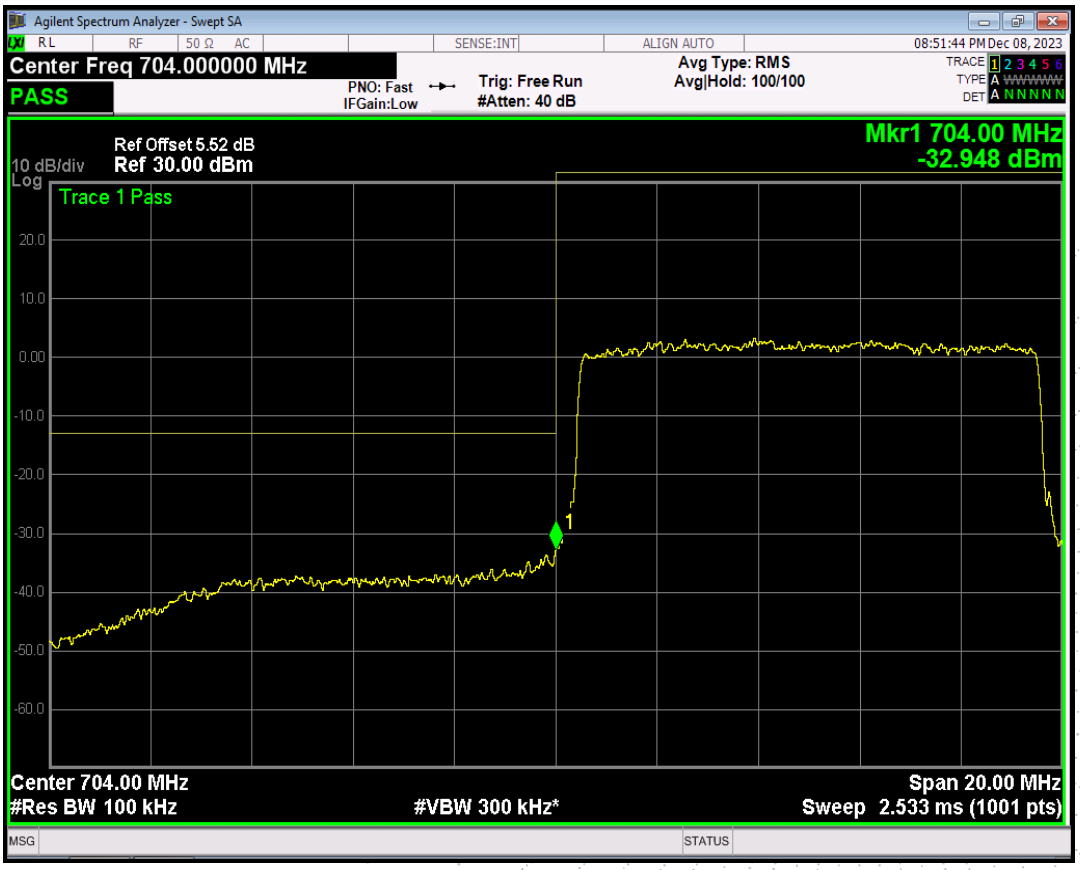
Band17 QPSK BW=5MHz Channel=23825 RB Size=25 Position=#0



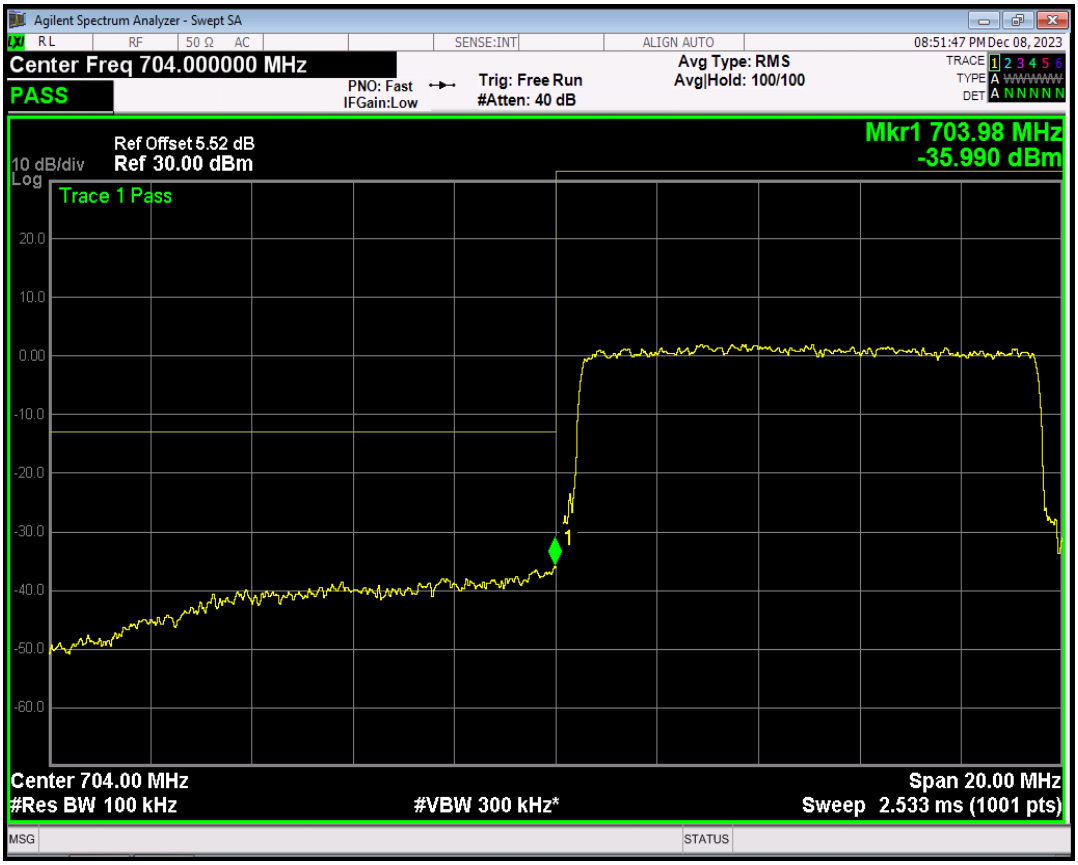
Band17 16QAM BW=5MHz Channel=23825 RB Size=25 Position=#0



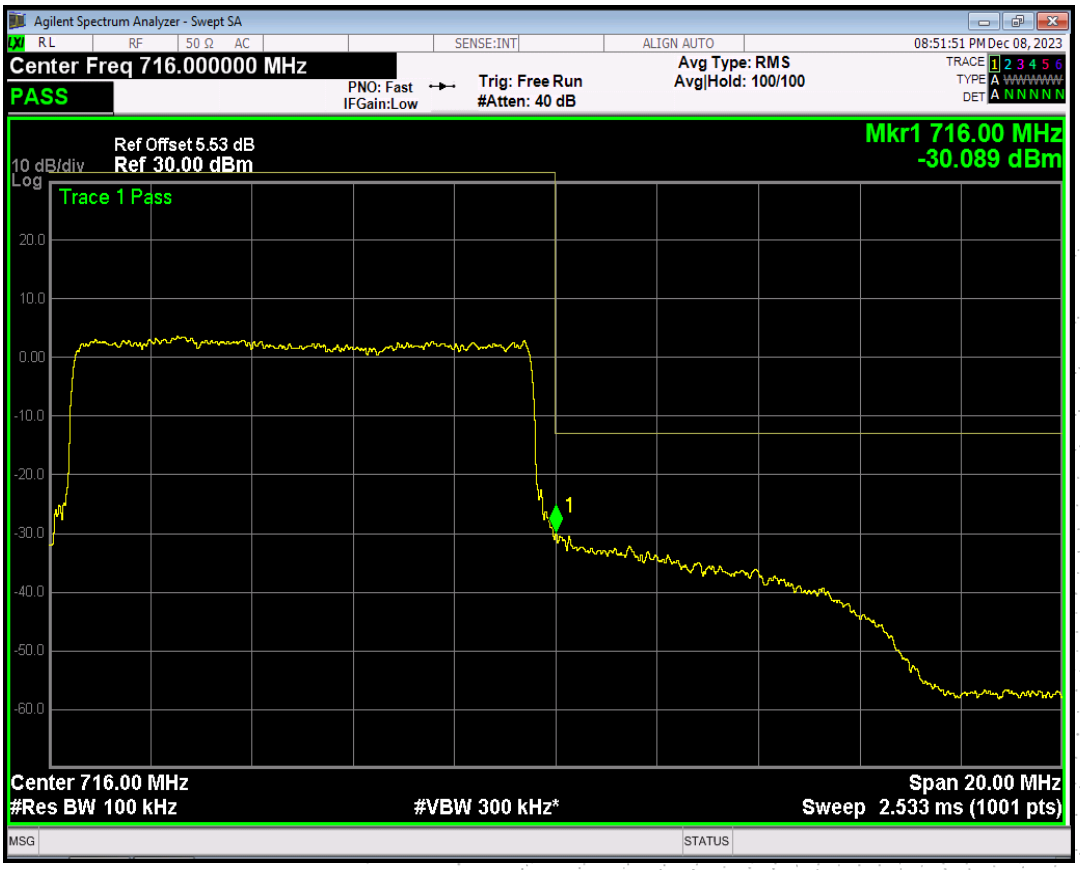
Band17 QPSK BW=10MHz Channel=23780 RB Size=50 Position=#0



Band17 16QAM BW=10MHz Channel=23780 RB Size=50 Position=#0



Band17 QPSK BW=10MHz Channel=23800 RB Size=50 Position=#0



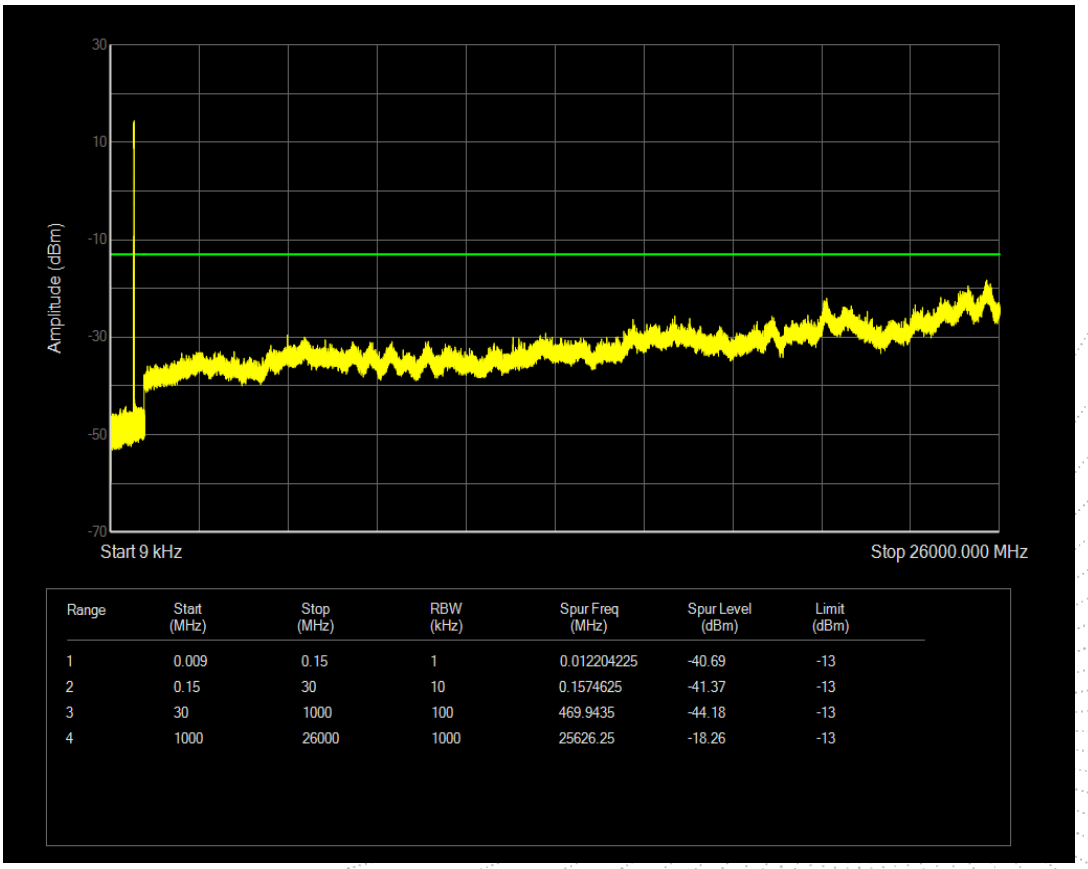
Band17 16QAM BW=10MHz Channel=23800 RB Size=50 Position=#0

Agilent Spectrum Analyzer - Swept SA
RL
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
08:51:54 PM Dec 08, 2023
Center Freq 716.000000 MHz
PASS
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: RMS
Avg|Hold: 100/100
TRACE 1 2 3 4 5 6
TYPE A WWWWWW
DET A N N N N N
Ref Offset 5.53 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 716.02 MHz
-32.619 dBm
Trace 1 Pass
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
1
Center 716.00 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 20.00 MHz
Sweep 2.533 ms (1001 pts)
MSG
STATUS

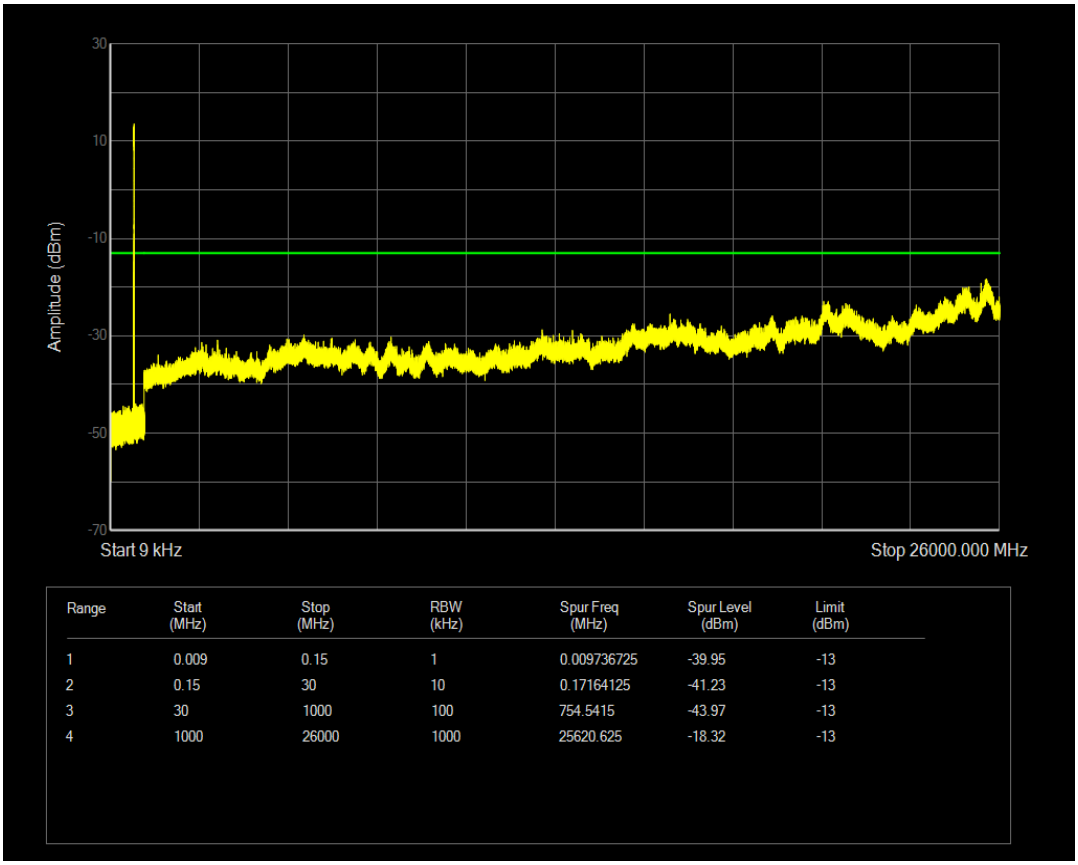
Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band17	5	23755	25	#0	QPSK	25626.25	-18.26	-13	PASS
Band17	5	23755	25	#0	16QAM	25620.63	-18.32	-13	PASS
Band17	5	23790	25	#0	QPSK	25623.75	-18.15	-13	PASS
Band17	5	23790	25	#0	16QAM	25620.00	-18.40	-13	PASS
Band17	5	23825	25	#0	QPSK	25635.63	-17.96	-13	PASS
Band17	5	23825	25	#0	16QAM	25653.75	-18.45	-13	PASS
Band17	10	23780	50	#0	QPSK	25653.13	-18.33	-13	PASS
Band17	10	23780	50	#0	16QAM	25626.25	-18.35	-13	PASS
Band17	10	23790	50	#0	QPSK	25603.75	-18.50	-13	PASS
Band17	10	23790	50	#0	16QAM	25629.38	-18.78	-13	PASS
Band17	10	23800	50	#0	QPSK	25615.00	-18.41	-13	PASS
Band17	10	23800	50	#0	16QAM	25675.63	-18.26	-13	PASS

Band17 QPSK BW=5MHz Channel=23755 RB Size=25 Position=#0

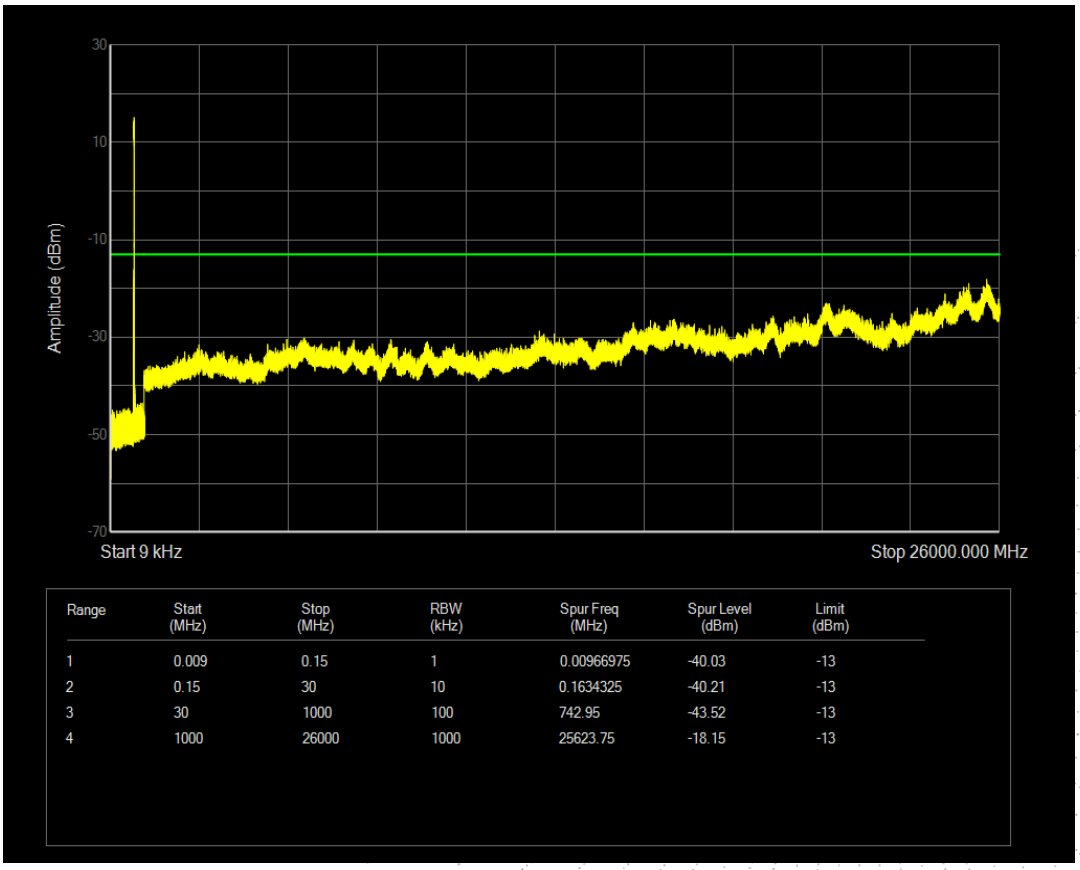


Band17 16QAM BW=5MHz Channel=23755 RB Size=25 Position=#0



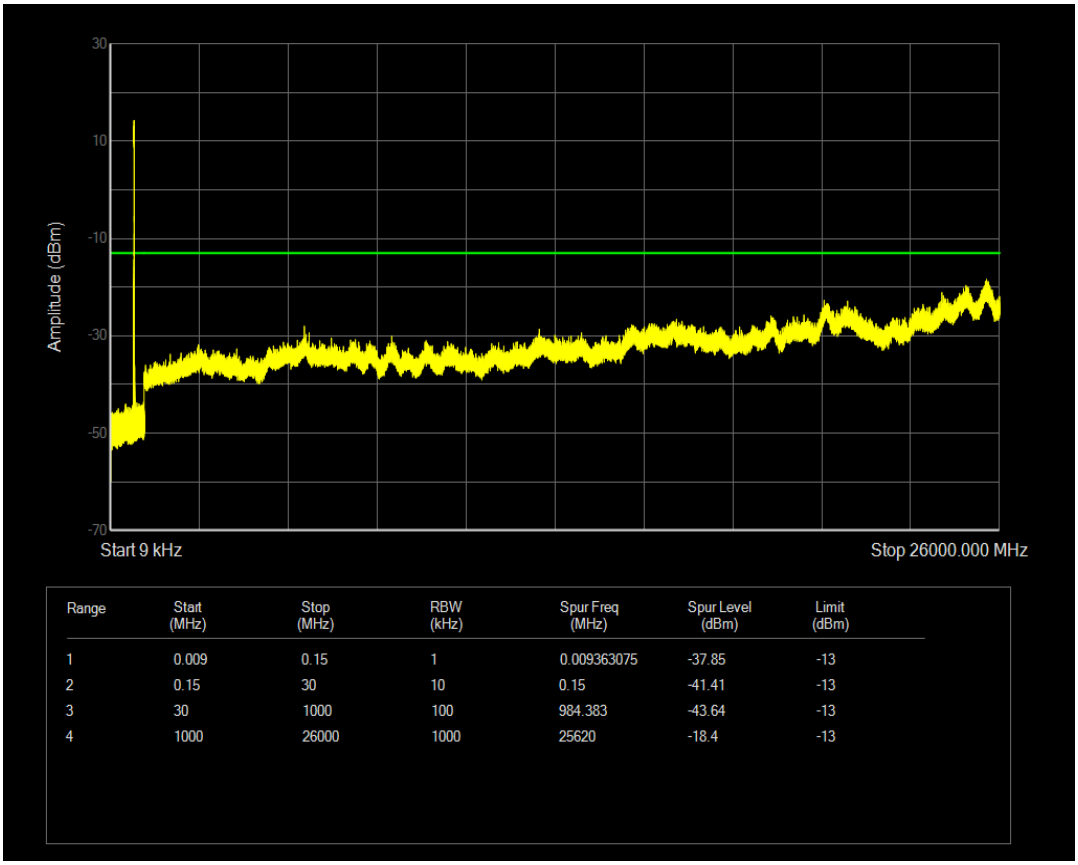
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009736725	-39.95	-13
2	0.15	30	10	0.17164125	-41.23	-13
3	30	1000	100	754.5415	-43.97	-13
4	1000	26000	1000	25620.625	-18.32	-13

Band17 QPSK BW=5MHz Channel=23790 RB Size=25 Position=#0



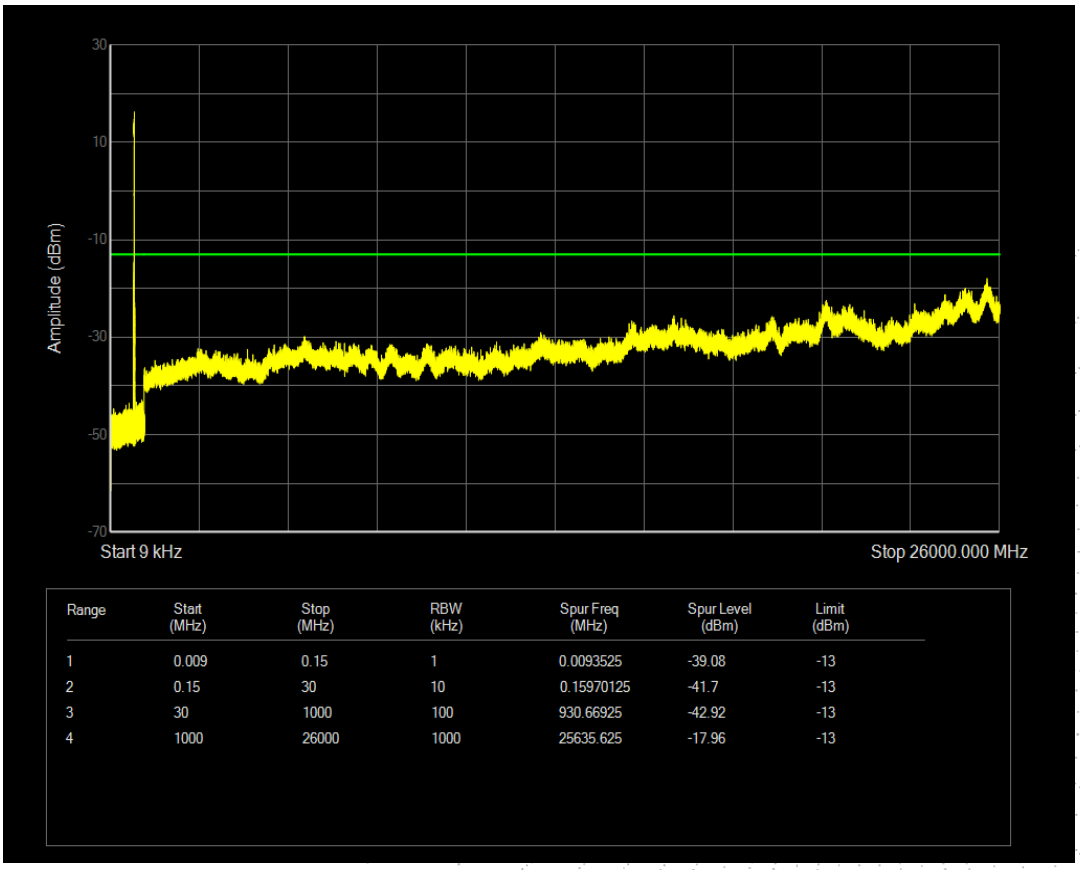
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00966975	-40.03	-13
2	0.15	30	10	0.1634325	-40.21	-13
3	30	1000	100	742.95	-43.52	-13
4	1000	26000	1000	25623.75	-18.15	-13

Band17 16QAM BW=5MHz Channel=23790 RB Size=25 Position=#0



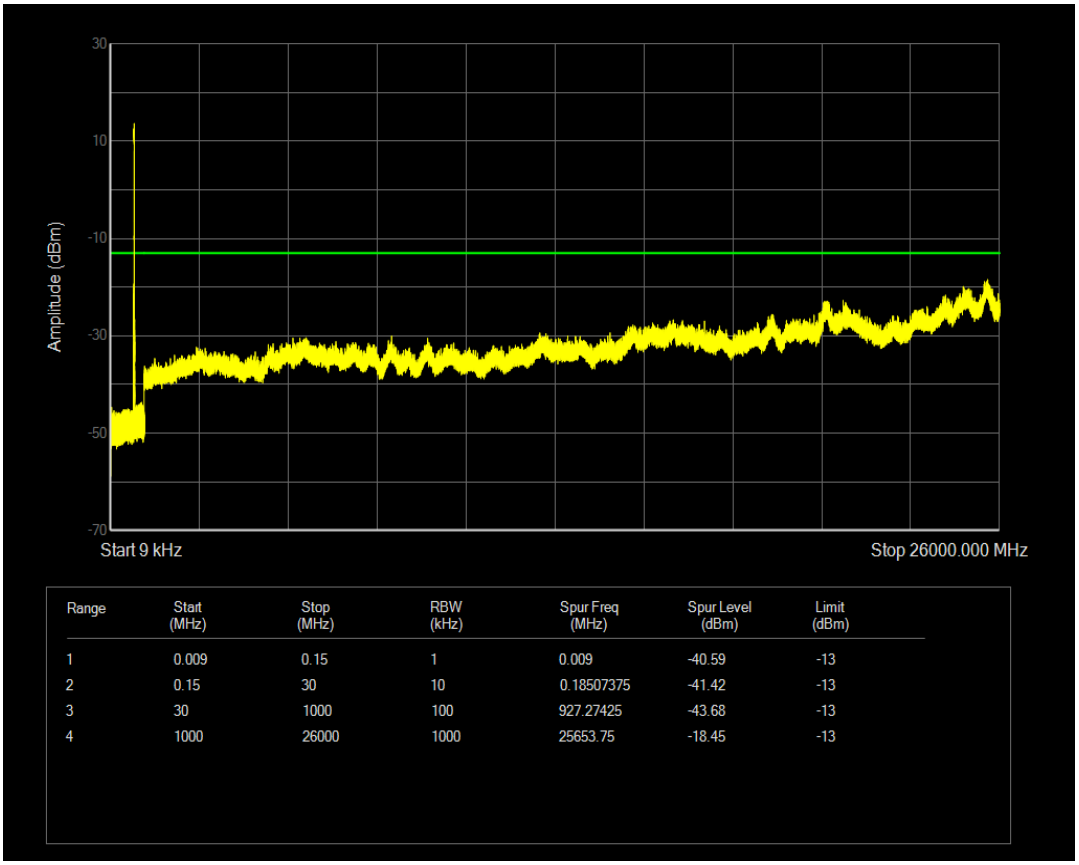
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009363075	-37.85	-13
2	0.15	30	10	0.15	-41.41	-13
3	30	1000	100	984.383	-43.64	-13
4	1000	26000	1000	25620	-18.4	-13

Band17 QPSK BW=5MHz Channel=23825 RB Size=25 Position=#0



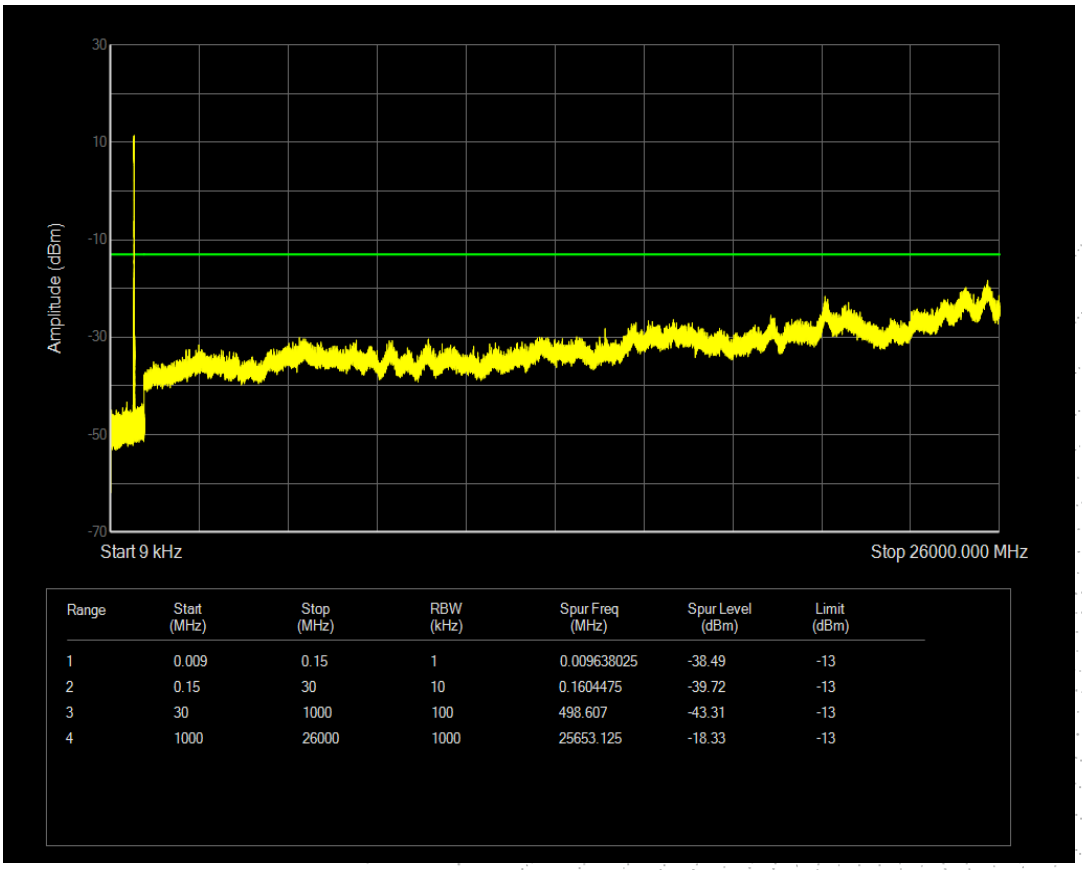
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0093525	-39.08	-13
2	0.15	30	10	0.15970125	-41.7	-13
3	30	1000	100	930.66925	-42.92	-13
4	1000	26000	1000	25635.625	-17.96	-13

Band17 16QAM BW=5MHz Channel=23825 RB Size=25 Position=#0



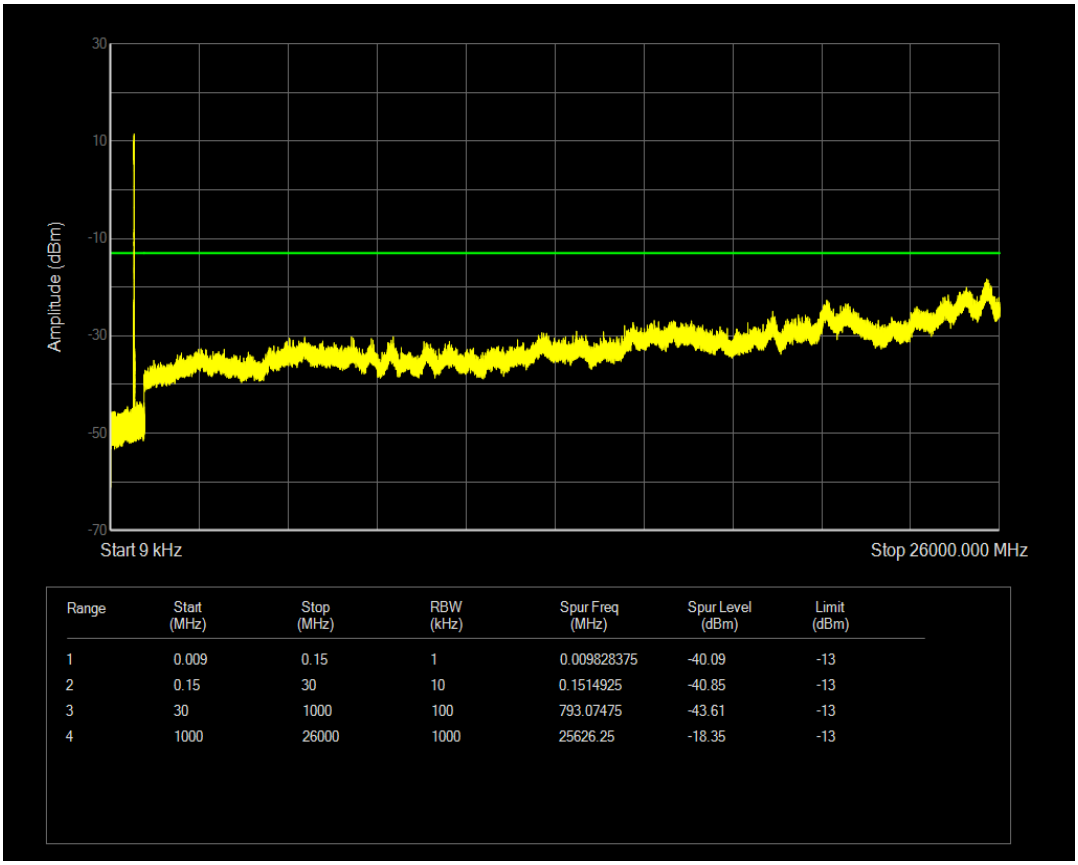
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-40.59	-13
2	0.15	30	10	0.18507375	-41.42	-13
3	30	1000	100	927.27425	-43.68	-13
4	1000	26000	1000	25653.75	-18.45	-13

Band17 QPSK BW=10MHz Channel=23780 RB Size=50 Position=#0



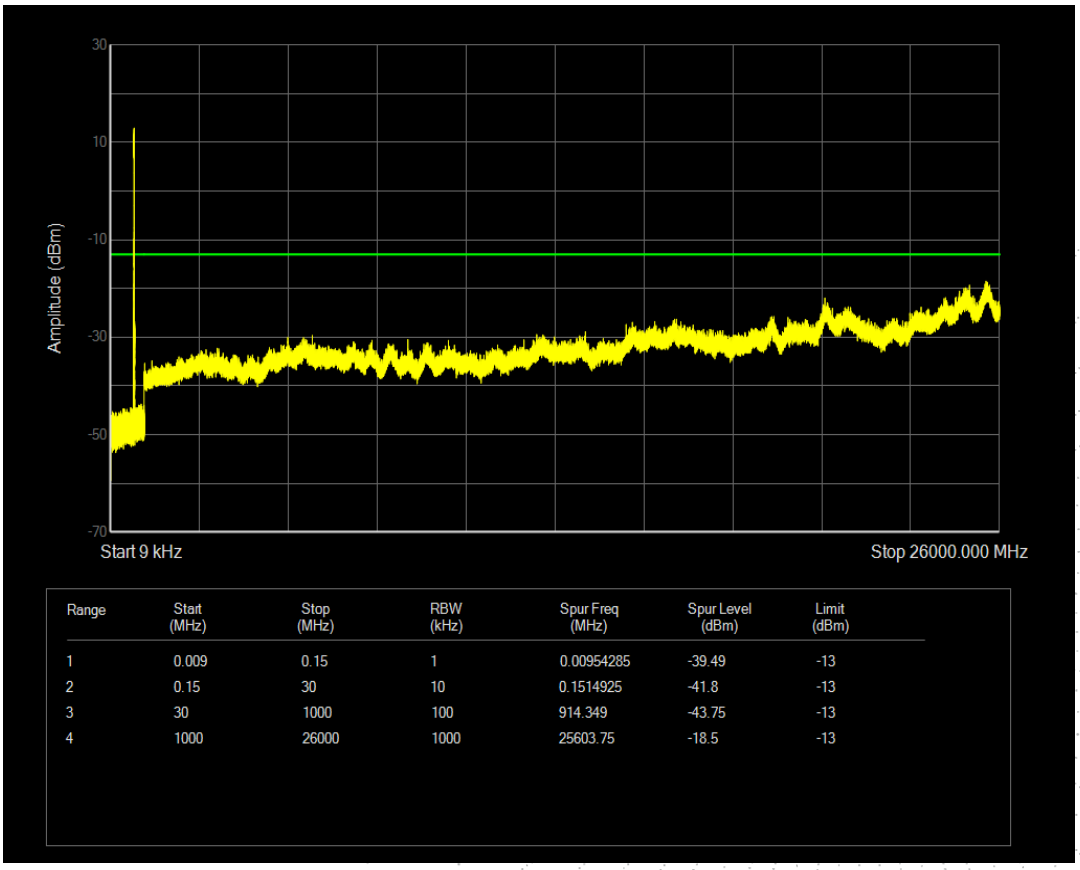
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009638025	-38.49	-13
2	0.15	30	10	0.1604475	-39.72	-13
3	30	1000	100	498.607	-43.31	-13
4	1000	26000	1000	25653.125	-18.33	-13

Band17 16QAM BW=10MHz Channel=23780 RB Size=50 Position=#0



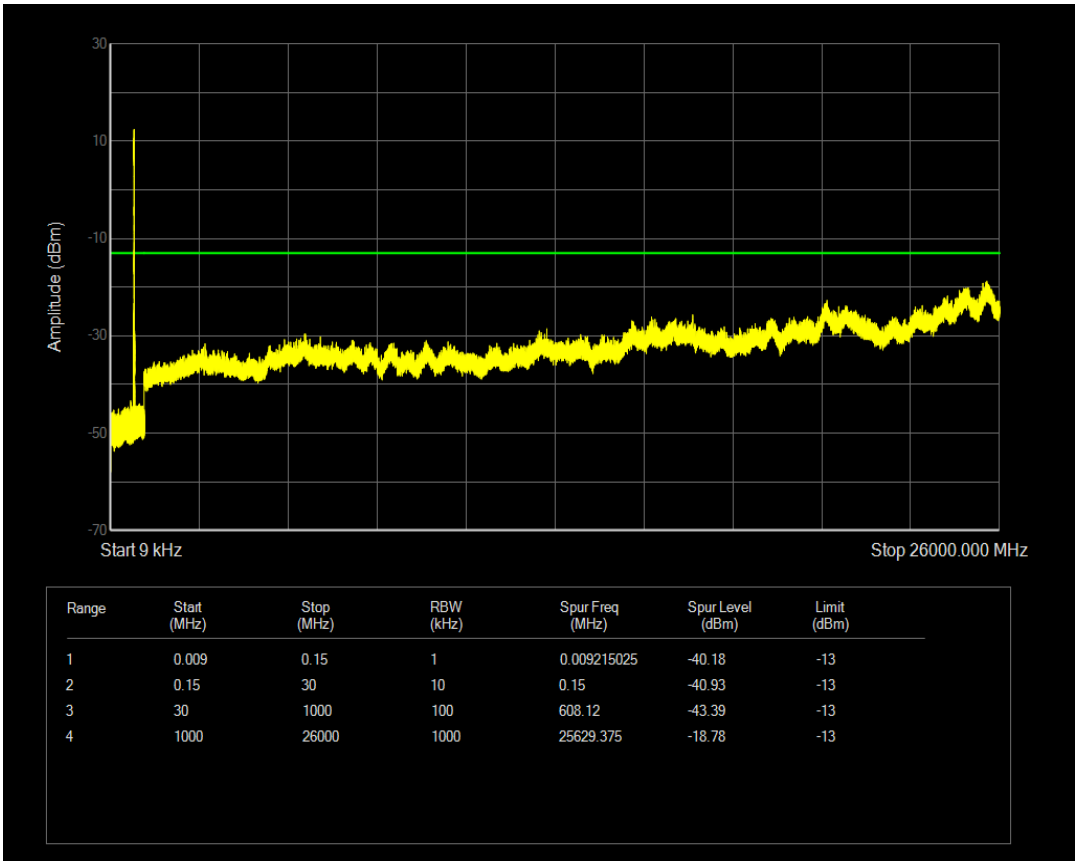
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009828375	-40.09	-13
2	0.15	30	10	0.1514925	-40.85	-13
3	30	1000	100	793.07475	-43.61	-13
4	1000	26000	1000	25626.25	-18.35	-13

Band17 QPSK BW=10MHz Channel=23790 RB Size=50 Position=#0



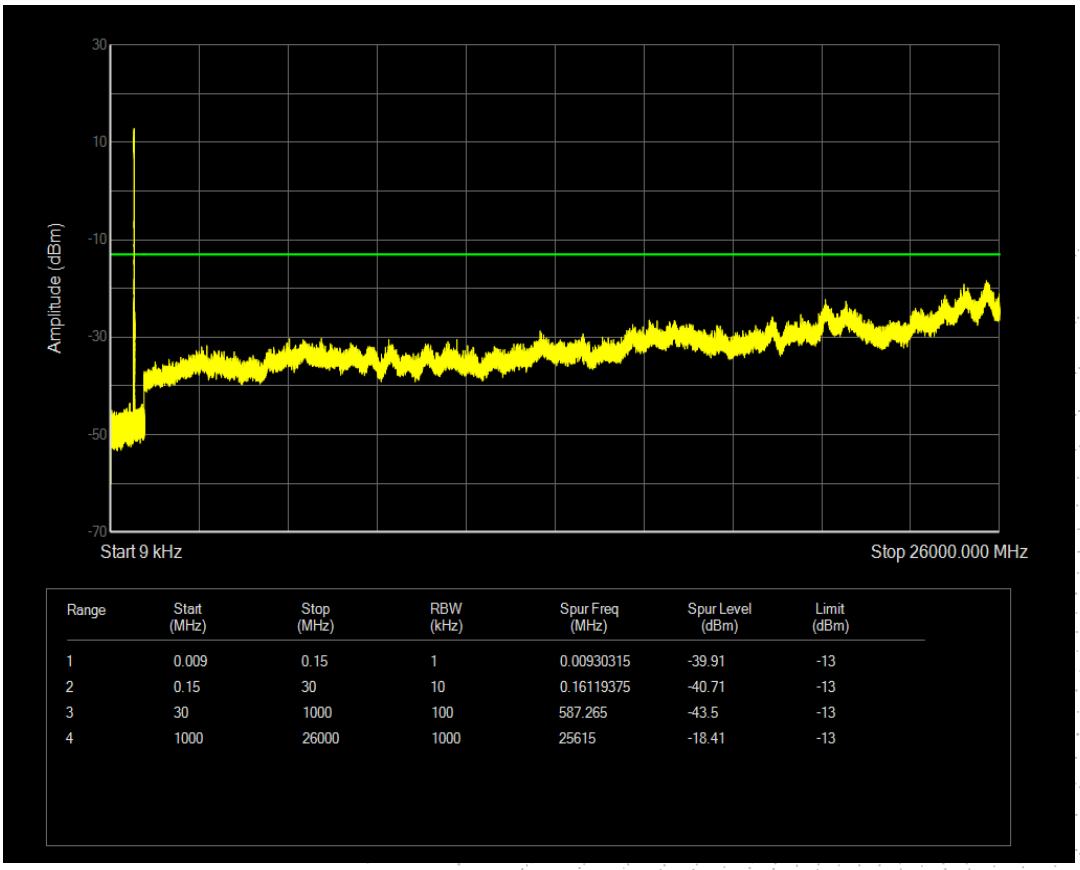
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00954285	-39.49	-13
2	0.15	30	10	0.1514925	-41.8	-13
3	30	1000	100	914.349	-43.75	-13
4	1000	26000	1000	25603.75	-18.5	-13

Band17 16QAM BW=10MHz Channel=23790 RB Size=50 Position=#0



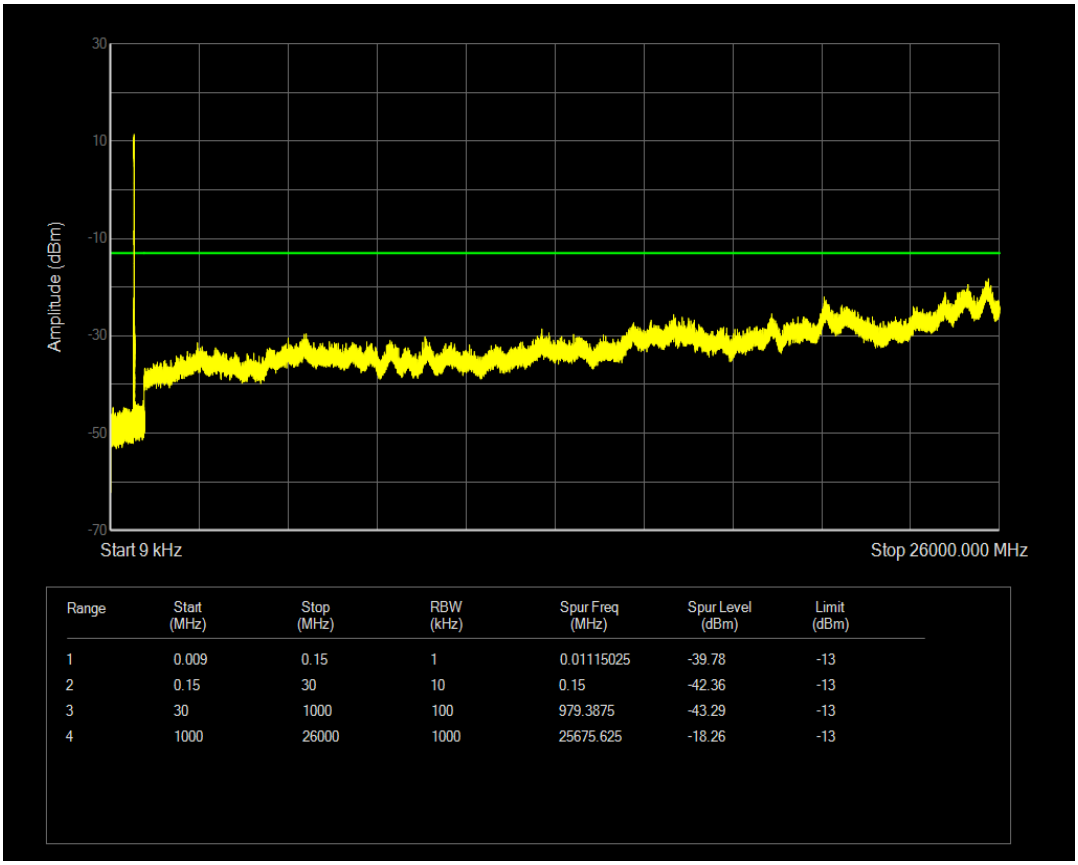
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009215025	-40.18	-13
2	0.15	30	10	0.15	-40.93	-13
3	30	1000	100	608.12	-43.39	-13
4	1000	26000	1000	25629.375	-18.78	-13

Band17 QPSK BW=10MHz Channel=23800 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00930315	-39.91	-13
2	0.15	30	10	0.16119375	-40.71	-13
3	30	1000	100	587.265	-43.5	-13
4	1000	26000	1000	25615	-18.41	-13

Band17 16QAM BW=10MHz Channel=23800 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01115025	-39.78	-13
2	0.15	30	10	0.15	-42.36	-13
3	30	1000	100	979.3875	-43.29	-13
4	1000	26000	1000	25675.625	-18.26	-13