Appendix for Band 7

Report No.:	BCTC2403018610-2E
Applicant:	Guangzhou T-Mark Technology Co., Ltd.
Product Name:	GPS Tracker
Test Model:	T4-1C
Tested Date:	2024-03-19 to 2024-05-14

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)	EIRP (dBm)	Verdict
Band7	5	20775	1	#0	QPSK	24.16	0.27	24.43	PASS
Band7	5	20775	1	#Mid	QPSK	23.96	0.27	24.23	PASS
Band7	5	20775	1	#Max	QPSK	23.76	0.27	24.03	PASS
Band7	5	20775	12	#0	QPSK	22.89	0.27	23.16	PASS
Band7	5	20775	12	#Mid	QPSK	22.92	0.27	23.19	PASS
Band7	5	20775	12	#Max	QPSK	22.72	0.27	22.99	PASS
Band7	5	20775	25	#0	QPSK	22.85	0.27	23.12	PASS
Band7	5	20775	1	#0	16QAM	23.39	0.27	23.66	PASS
Band7	5	20775	1	#Mid	16QAM	23.23	0.27	23.50	PASS
Band7	5	20775	1	#Max	16QAM	23.01	0.27	23.28	PASS
Band7	5	20775	12	#0	16QAM	21.97	0.27	22.24	PASS
Band7	5	20775	12	#Mid	16QAM	22.01	0.27	22.28	PASS
Band7	5	20775	12	#Max	16QAM	21.82	0.27	22.09	PASS
Band7	5	20775	25	#0	16QAM	21.95	0.27	22.22	PASS
Band7	5	21100	1	#0	QPSK	22.22	0.27	22.49	PASS
Band7	5	21100	1	#Mid	QPSK	22.29	0.27	22.56	PASS
Band7	5	21100	1	#Max	QPSK	22.35	0.27	22.62	PASS
Band7	5	21100	12	#0	QPSK	21.28	0.27	21.55	PASS
Band7	5	21100	12	#Mid	QPSK	21.42	0.27	21.69	PASS
Band7	5	21100	12	#Max	QPSK	21.40	0.27	21.67	PASS
Band7	5	21100	25	#0	QPSK	21.33	0.27	21.60	PASS
Band7	5	21100	1	#0	16QAM	21.64	0.27	21.91	PASS
Band7	5	21100	1	#Mid	16QAM	21.81	0.27	22.08	PASS
Band7	5	21100	1	#Max	16QAM	21.82	0.27	22.09	PASS
Band7	5	21100	12	#0	16QAM	20.28	0.27	20.55	PASS
Band7	5	21100	12	#Mid	16QAM	20.39	0.27	20.66	PASS
Band7	5	21100	12	#Max	16QAM	20.36	0.27	20.63	PASS
Band7	5	21100	25	#0	16QAM	20.24	0.27	20.51	PASS
Band7	5	21425	1	#0	QPSK	22.09	0.27	22.36	PASS
Band7	5	21425	1	#Mid	QPSK	22.21	0.27	22.48	PASS
Band7	5	21425	1	#Max	QPSK	22.05	0.27	22.32	PASS
Band7	5	21425	12	#0	QPSK	21.12	0.27	21.39	PASS
Band7	5	21425	12	#Mid	QPSK	21.24	0.27	21.51	PASS
Band7	5	21425	12	#Max	QPSK	21.15	0.27	21.42	PASS
Band7	5	21425	25	#0	QPSK	21.12	0.27	21.39	PASS

Band7	5	21425	1	#0	16QAM	21.57	0.27	21.84	PASS
Band7	5	21425	1	#Mid	16QAM	21.71	0.27	21.98	PASS
Band7	5	21425	1	#Max	16QAM	21.58	0.27	21.85	PASS
Band7	5	21425	12	#0	16QAM	20.12	0.27	20.39	PASS
Band7	5	21425	12	#Mid	16QAM	20.26	0.27	20.53	PASS
Band7	5	21425	12	#Max	16QAM	20.18	0.27	20.45	PASS
Band7	5	21425	25	#0	16QAM	20.12	0.27	20.39	PASS
Band7	10	20800	1	#0	QPSK	24.20	0.27	24.47	PASS
Band7	10	20800	1	#Mid	QPSK	23.76	0.27	24.03	PASS
Band7	10	20800	1	#Max	QPSK	23.04	0.27	23.31	PASS
Band7	10	20800	25	#0	QPSK	22.70	0.27	22.97	PASS
Band7	10	20800	25	#Mid	QPSK	22.56	0.27	22.83	PASS
Band7	10	20800	25	#Max	QPSK	22.06	0.27	22.33	PASS
Band7	10	20800	50	#0	QPSK	22.37	0.27	22.64	PASS
Band7	10	21100	1	#0	QPSK	22.10	0.27	22.37	PASS
Band7	10	21100	1	#Mid	QPSK	22.31	0.27	22.58	PASS
Band7	10	21100	1	#Max	QPSK	22.37	0.27	22.64	PASS
Band7	10	21100	25	#0	QPSK	21.08	0.27	21.35	PASS
Band7	10	21100	25	#Mid	QPSK	21.33	0.27	21.60	PASS
Band7	10	21100	25	#Max	QPSK	21.28	0.27	21.55	PASS
Band7	10	21100	50	#0	QPSK	21.17	0.27	21.44	PASS
Band7	10	21400	1	#0	QPSK	21.59	0.27	21.86	PASS
Band7	10	21400	1	#Mid	QPSK	21.92	0.27	22.19	PASS
Band7	10	21400	1	#Max	QPSK	22.11	0.27	22.38	PASS
Band7	10	21400	25	#0	QPSK	20.50	0.27	20.77	PASS
Band7	10	21400	25	#Mid	QPSK	20.87	0.27	21.14	PASS
Band7	10	21400	25	#Max	QPSK	20.86	0.27	21.13	PASS
Band7	10	21400	50	#0	QPSK	20.71	0.27	20.98	PASS
Band7	15	20825	1	#0	QPSK	24.17	0.27	24.44	PASS
Band7	15	20825	1	#Mid	QPSK	23.30	0.27	23.57	PASS
Band7	15	20825	1	#Max	QPSK	21.85	0.27	22.12	PASS
Band7	15	20825	36	#0	QPSK	22.59	0.27	22.86	PASS
Band7	15	20825	36	#Mid	QPSK	22.13	0.27	22.40	PASS
Band7	15	20825	36	#Max	QPSK	21.39	0.27	21.66	PASS
Band7	15	20825	75	#0	QPSK	22.04	0.27	22.31	PASS
Band7	15	21100	1	#0	QPSK	21.96	0.27	22.23	PASS
Band7	15	21100	1	#Mid	QPSK	22.39	0.27	22.66	PASS
Band7	15	21100	1	#Max	QPSK	22.53	0.27	22.80	PASS
Band7	15	21100	36	#0	QPSK	21.07	0.27	21.34	PASS
Band7	15	21100	36	#Mid	QPSK	21.34	0.27	21.61	PASS
Band7	15	21100	36	#Max	QPSK	21.35	0.27	21.62	PASS
Band7	15	21100	75	#0	QPSK	21.86	0.27	22.13	PASS

Band7	15	21375	1	#0	QPSK	21.84	0.27	22.11	PASS
Band7	15	21375	1	#Mid	QPSK	21.81	0.27	22.08	PASS
Band7	15	21375	1	#Max	QPSK	22.15	0.27	22.42	PASS
Band7	15	21375	36	#0	QPSK	20.47	0.27	20.74	PASS
Band7	15	21375	36	#Mid	QPSK	20.72	0.27	20.99	PASS
Band7	15	21375	36	#Max	QPSK	20.99	0.27	21.26	PASS
Band7	15	21375	75	#0	QPSK	21.62	0.27	21.89	PASS
Band7	20	20850	1	#0	QPSK	24.17	0.27	24.44	PASS
Band7	20	20850	1	#Mid	QPSK	22.97	0.27	23.24	PASS
Band7	20	20850	1	#Max	QPSK	21.09	0.27	21.36	PASS
Band7	20	20850	50	#0	QPSK	22.41	0.27	22.68	PASS
Band7	20	20850	50	#Mid	QPSK	21.83	0.27	22.10	PASS
Band7	20	20850	50	#Max	QPSK	20.72	0.27	20.99	PASS
Band7	20	20850	100	#0	QPSK	21.36	0.27	21.63	PASS
Band7	20	21100	1	#0	QPSK	21.56	0.27	21.83	PASS
Band7	20	21100	1	#Mid	QPSK	22.33	0.27	22.60	PASS
Band7	20	21100	1	#Max	QPSK	22.51	0.27	22.78	PASS
Band7	20	21100	50	#0	QPSK	20.99	0.27	21.26	PASS
Band7	20	21100	50	#Mid	QPSK	21.39	0.27	21.66	PASS
Band7	20	21100	50	#Max	QPSK	21.33	0.27	21.60	PASS
Band7	20	21100	100	#0	QPSK	21.74	0.27	22.01	PASS
Band7	20	21350	1	#0	QPSK	22.53	0.27	22.80	PASS
Band7	20	21350	1	#Mid	QPSK	21.47	0.27	21.74	PASS
Band7	20	21350	1	#Max	QPSK	22.10	0.27	22.37	PASS
Band7	20	21350	50	#0	QPSK	20.73	0.27	21.00	PASS
Band7	20	21350	50	#Mid	QPSK	20.59	0.27	20.86	PASS
Band7	20	21350	50	#Max	QPSK	20.78	0.27	21.05	PASS
Band7	20	21350	100	#0	QPSK	21.55	0.27	21.82	PASS

Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band7	5	20775	25	#0	QPSK	LV	NT	-17.19	-0.007	PASS
Band7	5	20775	25	#0	QPSK	NV	NT	-21.04	-0.008	PASS
Band7	5	20775	25	#0	QPSK	HV	NT	-10.13	-0.004	PASS
Band7	5	20775	25	#0	16QAM	LV	NT	-19.03	-0.008	PASS
Band7	5	20775	25	#0	16QAM	NV	NT	-15.35	-0.006	PASS
Band7	5	20775	25	#0	16QAM	HV	NT	-17.45	-0.007	PASS
Band7	5	21100	25	#0	QPSK	LV	NT	-13.83	-0.005	PASS
Band7	5	21100	25	#0	QPSK	NV	NT	-13.86	-0.005	PASS
Band7	5	21100	25	#0	QPSK	HV	NT	-22.20	-0.009	PASS
Band7	5	21100	25	#0	16QAM	LV	NT	-7.93	-0.003	PASS
Band7	5	21100	25	#0	16QAM	NV	NT	-21.24	-0.008	PASS
Band7	5	21100	25	#0	16QAM	HV	NT	-13.02	-0.005	PASS
Band7	5	21425	25	#0	QPSK	LV	NT	-17.80	-0.007	PASS
Band7	5	21425	25	#0	QPSK	NV	NT	-19.61	-0.008	PASS
Band7	5	21425	25	#0	QPSK	HV	NT	-16.31	-0.006	PASS
Band7	5	21425	25	#0	16QAM	LV	NT	-17.44	-0.007	PASS
Band7	5	21425	25	#0	16QAM	NV	NT	-8.33	-0.003	PASS
Band7	5	21425	25	#0	16QAM	HV	NT	-11.37	-0.004	PASS
Band7	10	20800	50	#0	QPSK	LV	NT	-3.00	-0.001	PASS
Band7	10	20800	50	#0	QPSK	NV	NT	-13.80	-0.006	PASS
Band7	10	20800	50	#0	QPSK	HV	NT	-16.06	-0.006	PASS
Band7	10	21100	50	#0	QPSK	LV	NT	-12.72	-0.005	PASS
Band7	10	21100	50	#0	QPSK	NV	NT	-6.19	-0.002	PASS
Band7	10	21100	50	#0	QPSK	HV	NT	-12.72	-0.005	PASS
Band7	10	21400	50	#0	QPSK	LV	NT	-10.23	-0.004	PASS
Band7	10	21400	50	#0	QPSK	NV	NT	-11.62	-0.005	PASS
Band7	10	21400	50	#0	QPSK	HV	NT	-17.44	-0.007	PASS
Band7	15	20825	75	#0	QPSK	LV	NT	-14.82	-0.006	PASS
Band7	15	20825	75	#0	QPSK	NV	NT	-16.49	-0.007	PASS
Band7	15	20825	75	#0	QPSK	HV	NT	-5.98	-0.002	PASS
Band7	15	21100	75	#0	QPSK	LV	NT	-16.24	-0.006	PASS
Band7	15	21100	75	#0	QPSK	NV	NT	-12.27	-0.005	PASS
Band7	15	21100	75	#0	QPSK	HV	NT	-19.63	-0.008	PASS
Band7	15	21375	75	#0	QPSK	LV	NT	-19.57	-0.008	PASS
Band7	15	21375	75	#0	QPSK	NV	NT	-20.73	-0.008	PASS
Band7	15	21375	75	#0	QPSK	HV	NT	-15.55	-0.006	PASS
Band7	20	20850	100	#0	QPSK	LV	NT	-22.14	-0.009	PASS

Band7	20	20850	100	#0	QPSK	NV	NT	-18.95	-0.008	PASS
Band7	20	20850	100	#0	QPSK	HV	NT	-17.27	-0.007	PASS
Band7	20	21100	100	#0	QPSK	LV	NT	-10.99	-0.004	PASS
Band7	20	21100	100	#0	QPSK	NV	NT	-18.05	-0.007	PASS
Band7	20	21100	100	#0	QPSK	HV	NT	-17.85	-0.007	PASS
Band7	20	21350	100	#0	QPSK	LV	NT	-11.67	-0.005	PASS
Band7	20	21350	100	#0	QPSK	NV	NT	-11.80	-0.005	PASS
Band7	20	21350	100	#0	QPSK	HV	NT	-13.20	-0.005	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band7	5	20775	25	#0	QPSK	NV	-30	4.69	0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	-20	11.46	0.005	PASS
Band7	5	20775	25	#0	QPSK	NV	-10	11.01	0.004	PASS
Band7	5	20775	25	#0	QPSK	NV	0	3.33	0.001	PASS
Band7	5	20775	25	#0	QPSK	NV	10	-0.66	0.000	PASS
Band7	5	20775	25	#0	QPSK	NV	20	14.28	0.006	PASS
Band7	5	20775	25	#0	QPSK	NV	30	7.52	0.003	PASS
Band7	5	20775	25	#0	QPSK	NV	40	3.35	0.001	PASS
Band7	5	20775	25	#0	QPSK	NV	50	-1.13	0.000	PASS
Band7	5	20775	25	#0	16QAM	NV	-30	21.64	0.009	PASS
Band7	5	20775	25	#0	16QAM	NV	-20	12.82	0.005	PASS
Band7	5	20775	25	#0	16QAM	NV	-10	13.36	0.005	PASS
Band7	5	20775	25	#0	16QAM	NV	0	11.83	0.005	PASS
Band7	5	20775	25	#0	16QAM	NV	10	11.97	0.005	PASS
Band7	5	20775	25	#0	16QAM	NV	20	11.26	0.004	PASS
Band7	5	20775	25	#0	16QAM	NV	30	15.19	0.006	PASS
Band7	5	20775	25	#0	16QAM	NV	40	-0.23	0.000	PASS
Band7	5	20775	25	#0	16QAM	NV	50	6.77	0.003	PASS
Band7	5	21100	25	#0	QPSK	NV	-30	-6.87	-0.003	PASS
Band7	5	21100	25	#0	QPSK	NV	-20	5.85	0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	-10	-4.96	-0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	0	6.25	0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	10	-6.91	-0.003	PASS
Band7	5	21100	25	#0	QPSK	NV	20	5.82	0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	30	4.41	0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	40	0.07	0.000	PASS
Band7	5	21100	25	#0	QPSK	NV	50	-5.35	-0.002	PASS
Band7	5	21100	25	#0	16QAM	NV	-30	-1.76	-0.001	PASS
Band7	5	21100	25	#0	16QAM	NV	-20	10.23	0.004	PASS
Band7	5	21100	25	#0	16QAM	NV	-10	4.26	0.002	PASS
Band7	5	21100	25	#0	16QAM	NV	0	-7.01	-0.003	PASS

Band7	5	21100	25	#0	16QAM	NV	10	-11.87	-0.005	PASS
Band7	5	21100	25	#0	16QAM	NV	20	-7.30	-0.003	PASS
Band7	5	21100	25	#0	16QAM	NV	30	-0.72	0.000	PASS
Band7	5	21100	25	#0	16QAM	NV	40	3.40	0.001	PASS
Band7	5	21100	25	#0	16QAM	NV	50	-12.09	-0.005	PASS
Band7	5	21425	25	#0	QPSK	NV	-30	-10.61	-0.004	PASS
Band7	5	21425	25	#0	QPSK	NV	-20	4.45	0.002	PASS
Band7	5	21425	25	#0	QPSK	NV	-10	3.86	0.002	PASS
Band7	5	21425	25	#0	QPSK	NV	0	1.47	0.001	PASS
Band7	5	21425	25	#0	QPSK	NV	10	6.78	0.003	PASS
Band7	5	21425	25	#0	QPSK	NV	20	-3.72	-0.001	PASS
Band7	5	21425	25	#0	QPSK	NV	30	-1.99	-0.001	PASS
Band7	5	21425	25	#0	QPSK	NV	40	-2.29	-0.001	PASS
Band7	5	21425	25	#0	QPSK	NV	50	-15.79	-0.006	PASS
Band7	5	21425	25	#0	16QAM	NV	-30	-2.60	-0.001	PASS
Band7	5	21425	25	#0	16QAM	NV	-20	0.64	0.000	PASS
Band7	5	21425	25	#0	16QAM	NV	-10	-2.25	-0.001	PASS
Band7	5	21425	25	#0	16QAM	NV	0	-0.56	0.000	PASS
Band7	5	21425	25	#0	16QAM	NV	10	-10.37	-0.004	PASS
Band7	5	21425	25	#0	16QAM	NV	20	-9.24	-0.004	PASS
Band7	5	21425	25	#0	16QAM	NV	30	-5.61	-0.002	PASS
Band7	5	21425	25	#0	16QAM	NV	40	3.58	0.001	PASS
Band7	5	21425	25	#0	16QAM	NV	50	-13.92	-0.005	PASS
Band7	10	20800	50	#0	QPSK	NV	-30	-7.72	-0.003	PASS
Band7	10	20800	50	#0	QPSK	NV	-20	-3.43	-0.001	PASS
Band7	10	20800	50	#0	QPSK	NV	-10	7.60	0.003	PASS
Band7	10	20800	50	#0	QPSK	NV	0	0.24	0.000	PASS
Band7	10	20800	50	#0	QPSK	NV	10	6.02	0.002	PASS
Band7	10	20800	50	#0	QPSK	NV	20	8.97	0.004	PASS
Band7	10	20800	50	#0	QPSK	NV	30	11.30	0.005	PASS
Band7	10	20800	50	#0	QPSK	NV	40	15.52	0.006	PASS
Band7	10	20800	50	#0	QPSK	NV	50	8.97	0.004	PASS
Band7	10	21100	50	#0	QPSK	NV	-30	-4.15	-0.002	PASS
Band7	10	21100	50	#0	QPSK	NV	-20	-2.00	-0.001	PASS
Band7	10	21100	50	#0	QPSK	NV	-10	-3.62	-0.001	PASS
Band7	10	21100	50	#0	QPSK	NV	0	-0.39	0.000	PASS
Band7	10	21100	50	#0	QPSK	NV	10	2.79	0.001	PASS
Band7	10	21100	50	#0	QPSK	NV	20	-10.16	-0.004	PASS
Band7	10	21100	50	#0	QPSK	NV	30	5.29	0.002	PASS
Band7	10	21100	50	#0	QPSK	NV	40	-3.78	-0.001	PASS
Band7	10	21100	50	#0	QPSK	NV	50	-5.91	-0.002	PASS
Band7	10	21400	50	#0	QPSK	NV	-30	6.17	0.002	PASS

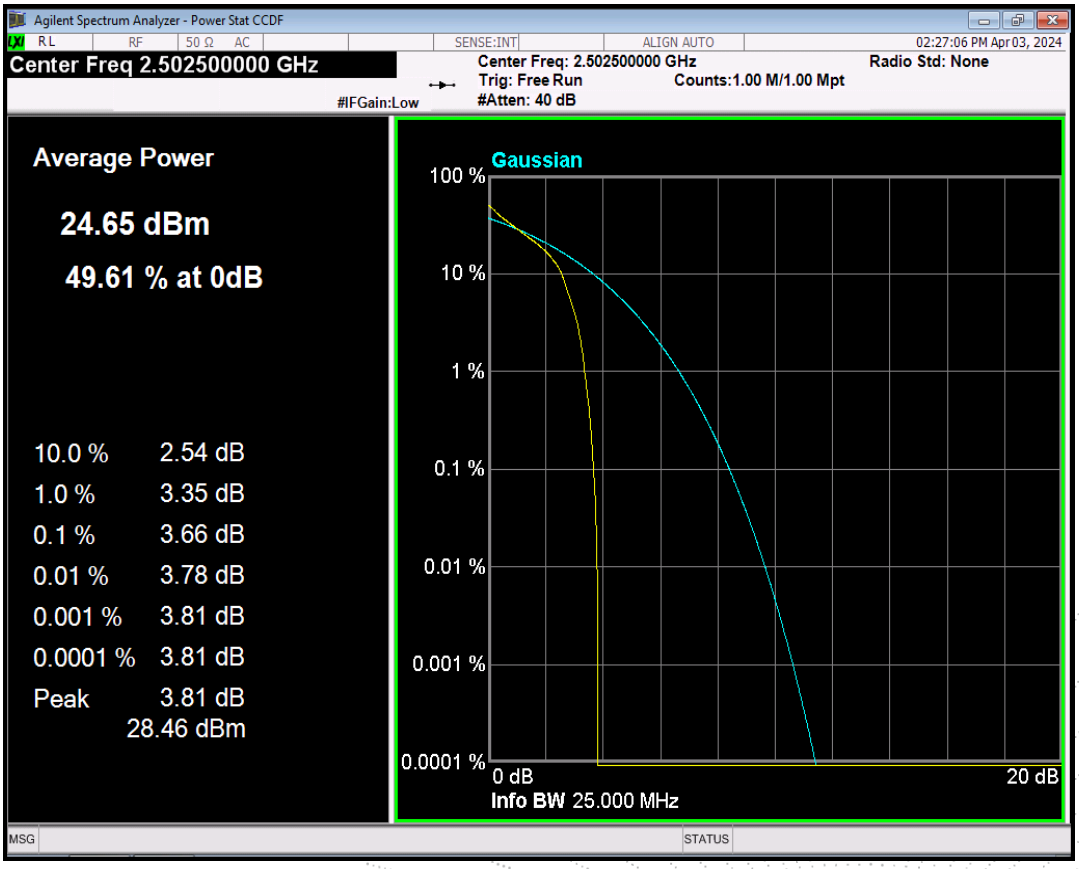
Band7	10	21400	50	#0	QPSK	NV	-20	0.26	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	-10	1.44	0.001	PASS
Band7	10	21400	50	#0	QPSK	NV	0	-13.99	-0.005	PASS
Band7	10	21400	50	#0	QPSK	NV	10	-3.20	-0.001	PASS
Band7	10	21400	50	#0	QPSK	NV	20	1.66	0.001	PASS
Band7	10	21400	50	#0	QPSK	NV	30	0.10	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	40	6.77	0.003	PASS
Band7	10	21400	50	#0	QPSK	NV	50	5.45	0.002	PASS
Band7	15	20825	75	#0	QPSK	NV	-30	0.49	0.000	PASS
Band7	15	20825	75	#0	QPSK	NV	-20	10.60	0.004	PASS
Band7	15	20825	75	#0	QPSK	NV	-10	9.56	0.004	PASS
Band7	15	20825	75	#0	QPSK	NV	0	5.35	0.002	PASS
Band7	15	20825	75	#0	QPSK	NV	10	1.34	0.001	PASS
Band7	15	20825	75	#0	QPSK	NV	20	5.01	0.002	PASS
Band7	15	20825	75	#0	QPSK	NV	30	6.48	0.003	PASS
Band7	15	20825	75	#0	QPSK	NV	40	12.10	0.005	PASS
Band7	15	20825	75	#0	QPSK	NV	50	-3.82	-0.002	PASS
Band7	15	21100	75	#0	QPSK	NV	-30	-2.90	-0.001	PASS
Band7	15	21100	75	#0	QPSK	NV	-20	0.86	0.000	PASS
Band7	15	21100	75	#0	QPSK	NV	-10	-4.23	-0.002	PASS
Band7	15	21100	75	#0	QPSK	NV	0	-9.21	-0.004	PASS
Band7	15	21100	75	#0	QPSK	NV	10	7.42	0.003	PASS
Band7	15	21100	75	#0	QPSK	NV	20	1.69	0.001	PASS
Band7	15	21100	75	#0	QPSK	NV	30	7.05	0.003	PASS
Band7	15	21100	75	#0	QPSK	NV	40	-4.95	-0.002	PASS
Band7	15	21100	75	#0	QPSK	NV	50	-0.30	0.000	PASS
Band7	15	21375	75	#0	QPSK	NV	-30	1.47	0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	-20	-10.56	-0.004	PASS
Band7	15	21375	75	#0	QPSK	NV	-10	6.49	0.003	PASS
Band7	15	21375	75	#0	QPSK	NV	0	4.06	0.002	PASS
Band7	15	21375	75	#0	QPSK	NV	10	3.19	0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	20	-1.93	-0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	30	2.68	0.001	PASS
Band7	15	21375	75	#0	QPSK	NV	40	-6.84	-0.003	PASS
Band7	15	21375	75	#0	QPSK	NV	50	-1.62	-0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	-30	-5.26	-0.002	PASS
Band7	20	20850	100	#0	QPSK	NV	-20	13.86	0.006	PASS
Band7	20	20850	100	#0	QPSK	NV	-10	12.95	0.005	PASS
Band7	20	20850	100	#0	QPSK	NV	0	1.43	0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	10	2.59	0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	20	3.02	0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	30	8.65	0.003	PASS

Band7	20	20850	100	#0	QPSK	NV	40	2.86	0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	50	-4.01	-0.002	PASS
Band7	20	21100	100	#0	QPSK	NV	-30	-2.82	-0.001	PASS
Band7	20	21100	100	#0	QPSK	NV	-20	2.70	0.001	PASS
Band7	20	21100	100	#0	QPSK	NV	-10	17.68	0.007	PASS
Band7	20	21100	100	#0	QPSK	NV	0	-1.57	-0.001	PASS
Band7	20	21100	100	#0	QPSK	NV	10	6.55	0.003	PASS
Band7	20	21100	100	#0	QPSK	NV	20	11.13	0.004	PASS
Band7	20	21100	100	#0	QPSK	NV	30	-4.98	-0.002	PASS
Band7	20	21100	100	#0	QPSK	NV	40	-3.13	-0.001	PASS
Band7	20	21100	100	#0	QPSK	NV	50	0.77	0.000	PASS
Band7	20	21350	100	#0	QPSK	NV	-30	-1.33	-0.001	PASS
Band7	20	21350	100	#0	QPSK	NV	-20	4.71	0.002	PASS
Band7	20	21350	100	#0	QPSK	NV	-10	-7.65	-0.003	PASS
Band7	20	21350	100	#0	QPSK	NV	0	11.49	0.004	PASS
Band7	20	21350	100	#0	QPSK	NV	10	-7.82	-0.003	PASS
Band7	20	21350	100	#0	QPSK	NV	20	-10.34	-0.004	PASS
Band7	20	21350	100	#0	QPSK	NV	30	4.43	0.002	PASS
Band7	20	21350	100	#0	QPSK	NV	40	-0.43	0.000	PASS
Band7	20	21350	100	#0	QPSK	NV	50	-11.93	-0.005	PASS

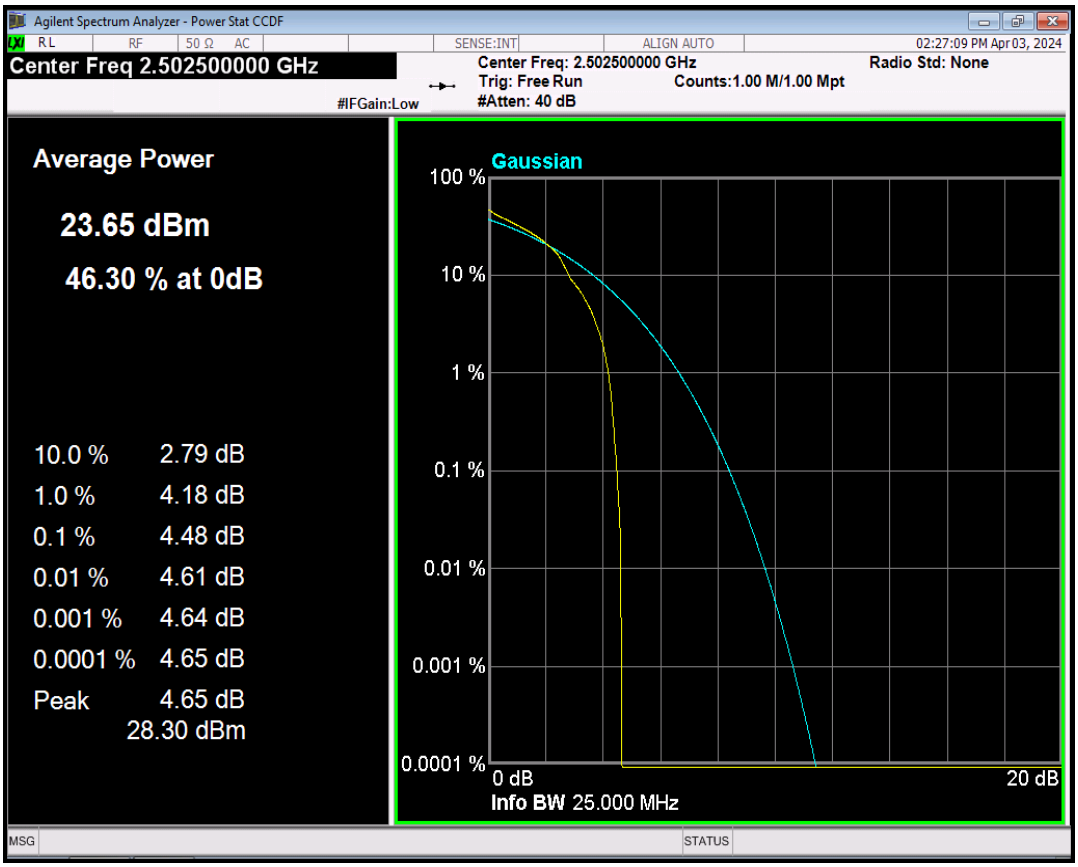
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band7	5	20775	1	#0	QPSK	3.66	13	PASS
Band7	5	20775	1	#0	16QAM	4.48	13	PASS
Band7	5	21100	1	#0	QPSK	5.57	13	PASS
Band7	5	21100	1	#0	16QAM	5.83	13	PASS
Band7	5	21425	1	#0	QPSK	5.98	13	PASS
Band7	5	21425	1	#0	16QAM	6.06	13	PASS
Band7	10	20800	1	#0	QPSK	3.40	13	PASS
Band7	10	21100	1	#0	QPSK	5.84	13	PASS
Band7	10	21400	1	#0	QPSK	5.84	13	PASS
Band7	15	20825	1	#0	QPSK	3.57	13	PASS
Band7	15	21100	1	#0	QPSK	5.94	13	PASS
Band7	15	21375	1	#0	QPSK	5.55	13	PASS
Band7	20	20850	1	#0	QPSK	3.60	13	PASS
Band7	20	21100	1	#0	QPSK	5.71	13	PASS
Band7	20	21350	1	#0	QPSK	5.71	13	PASS

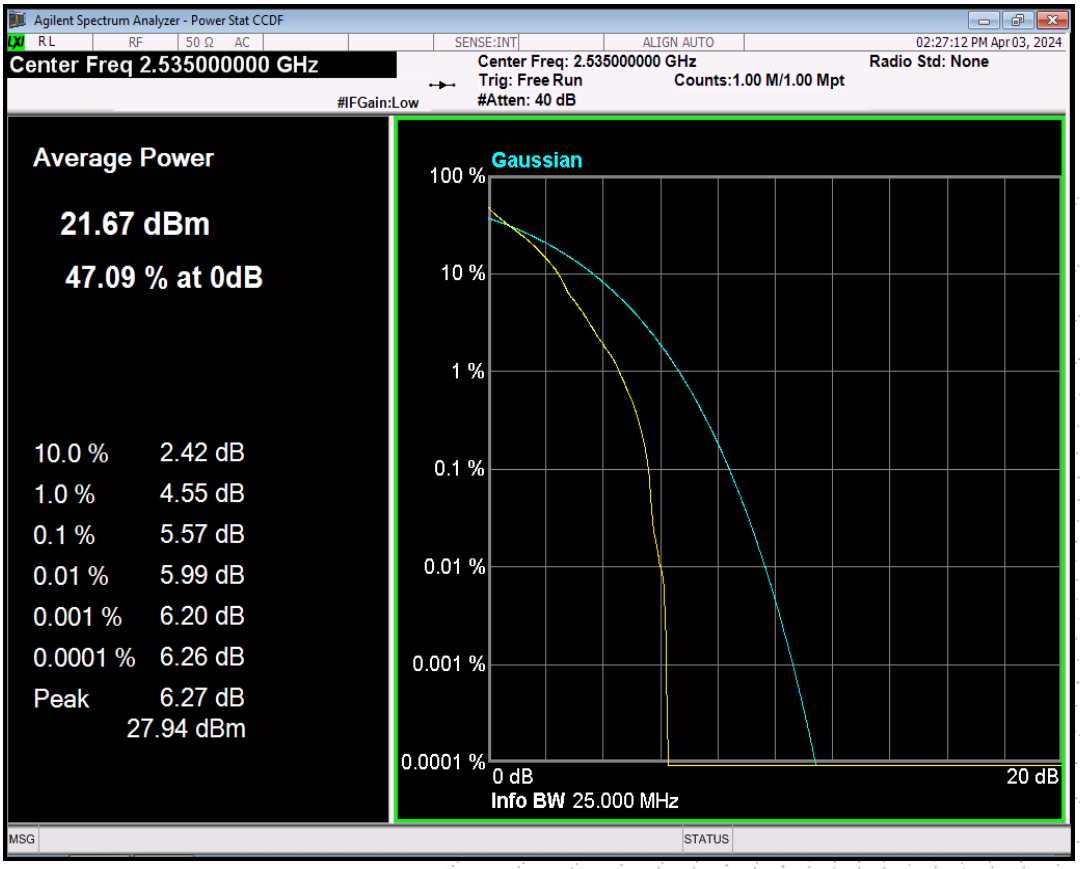
Band7 QPSK BW=5MHz Channel=20775 RB Size=1 Position=#0



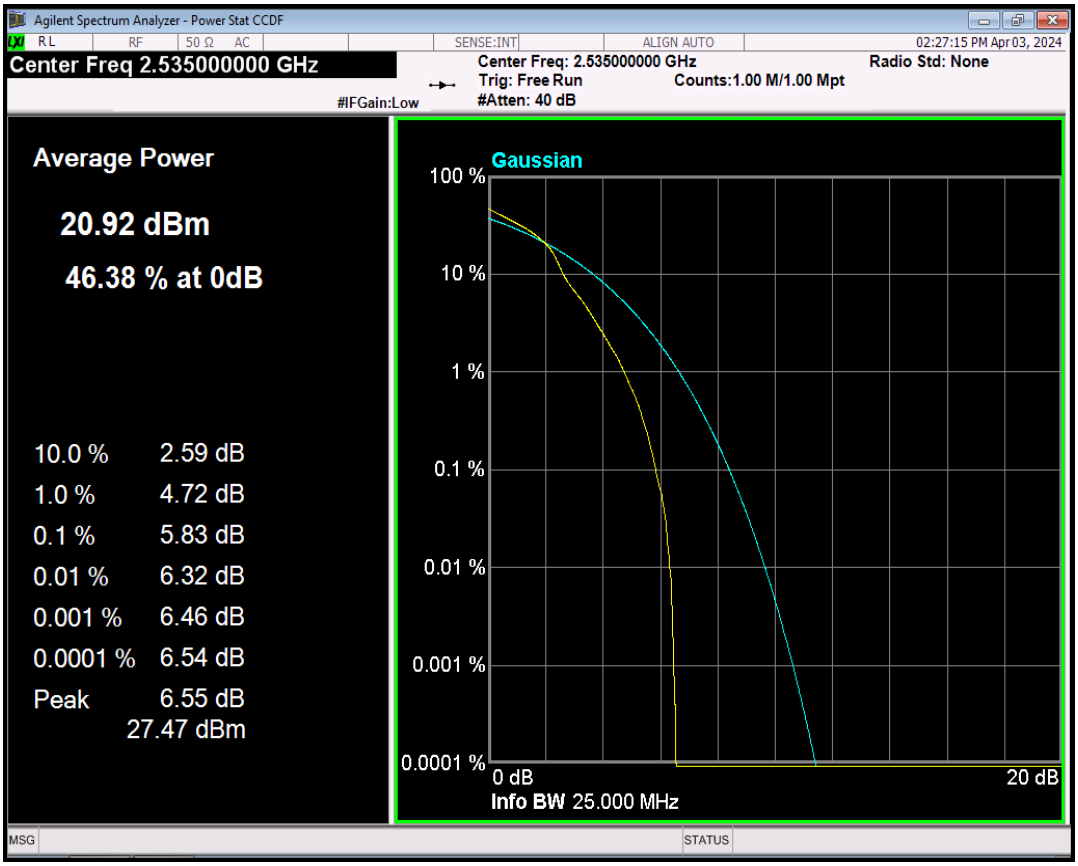
Band7 16QAM BW=5MHz Channel=20775 RB Size=1 Position=#0



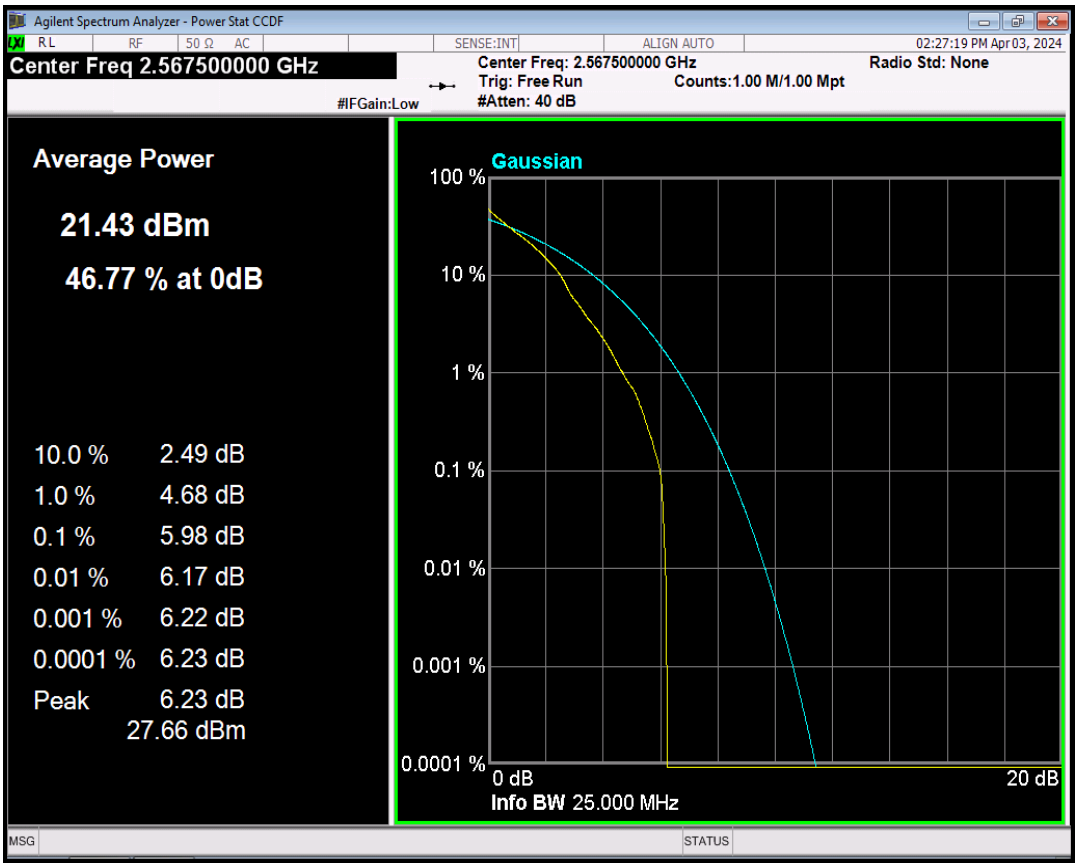
Band7 QPSK BW=5MHz Channel=21100 RB Size=1 Position=#0



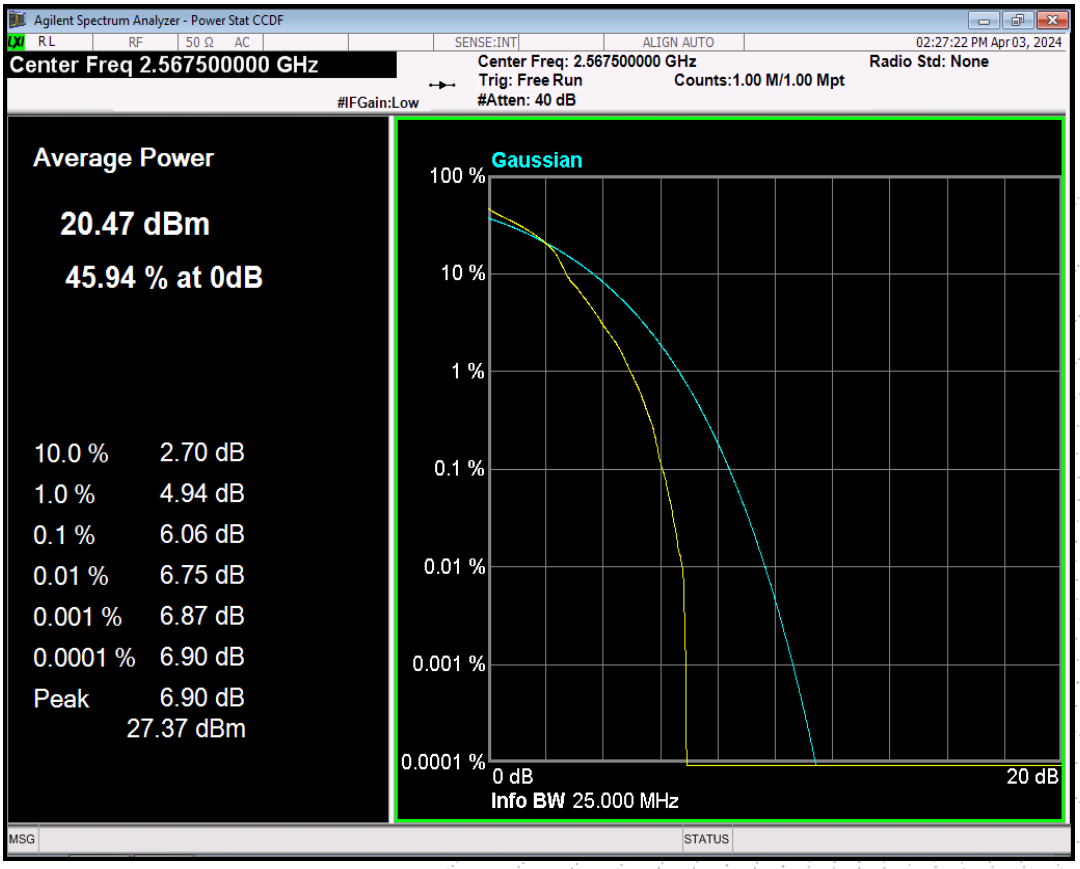
Band7 16QAM BW=5MHz Channel=21100 RB Size=1 Position=#0



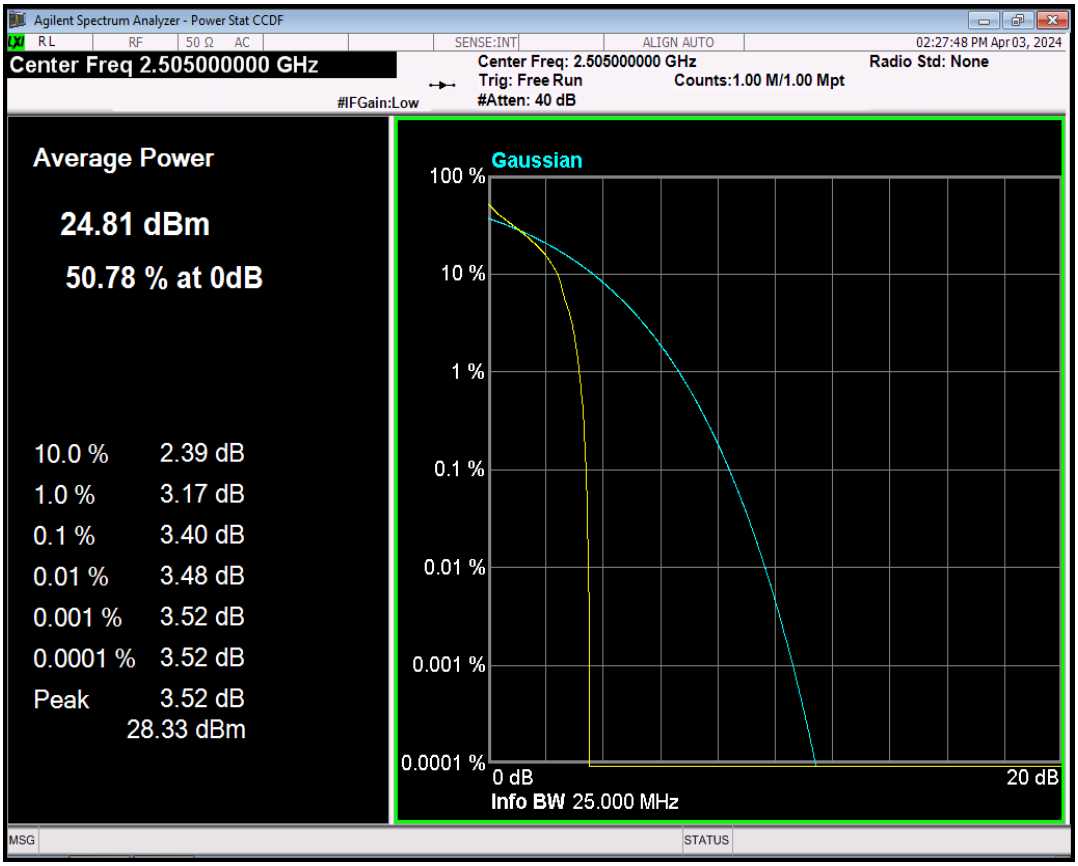
Band7 QPSK BW=5MHz Channel=21425 RB Size=1 Position=#0



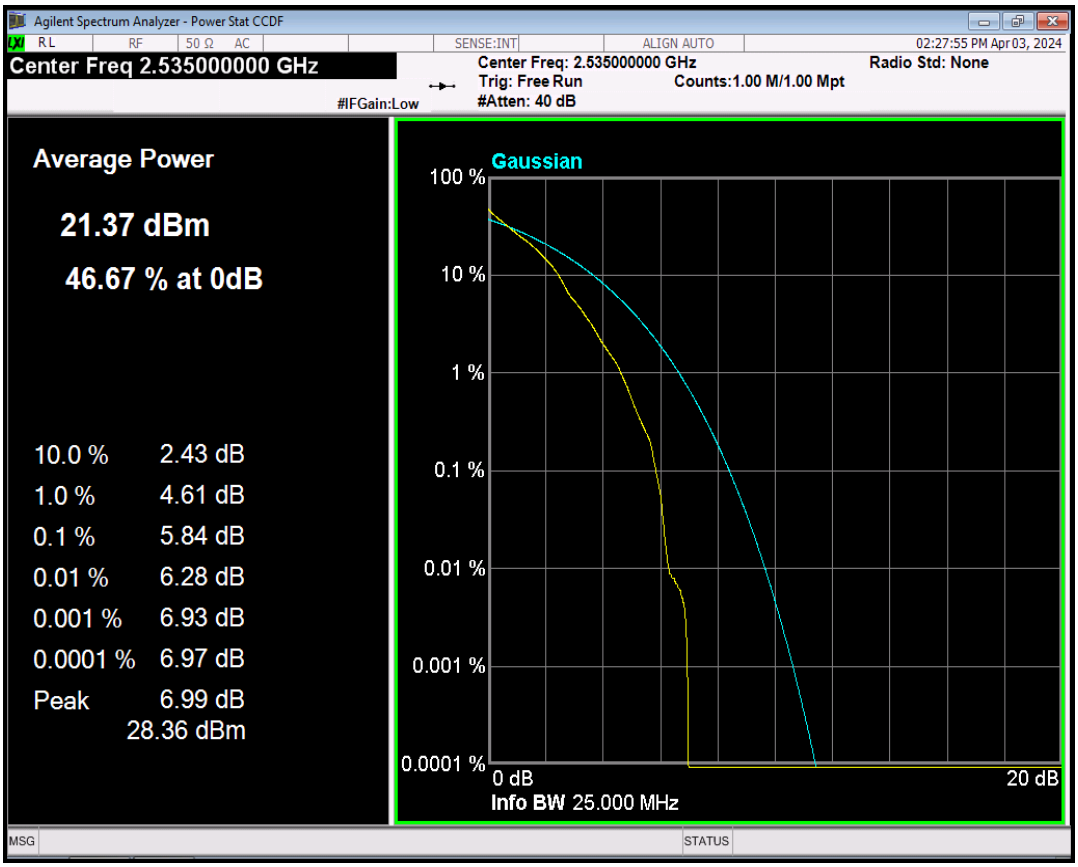
Band7 16QAM BW=5MHz Channel=21425 RB Size=1 Position=#0



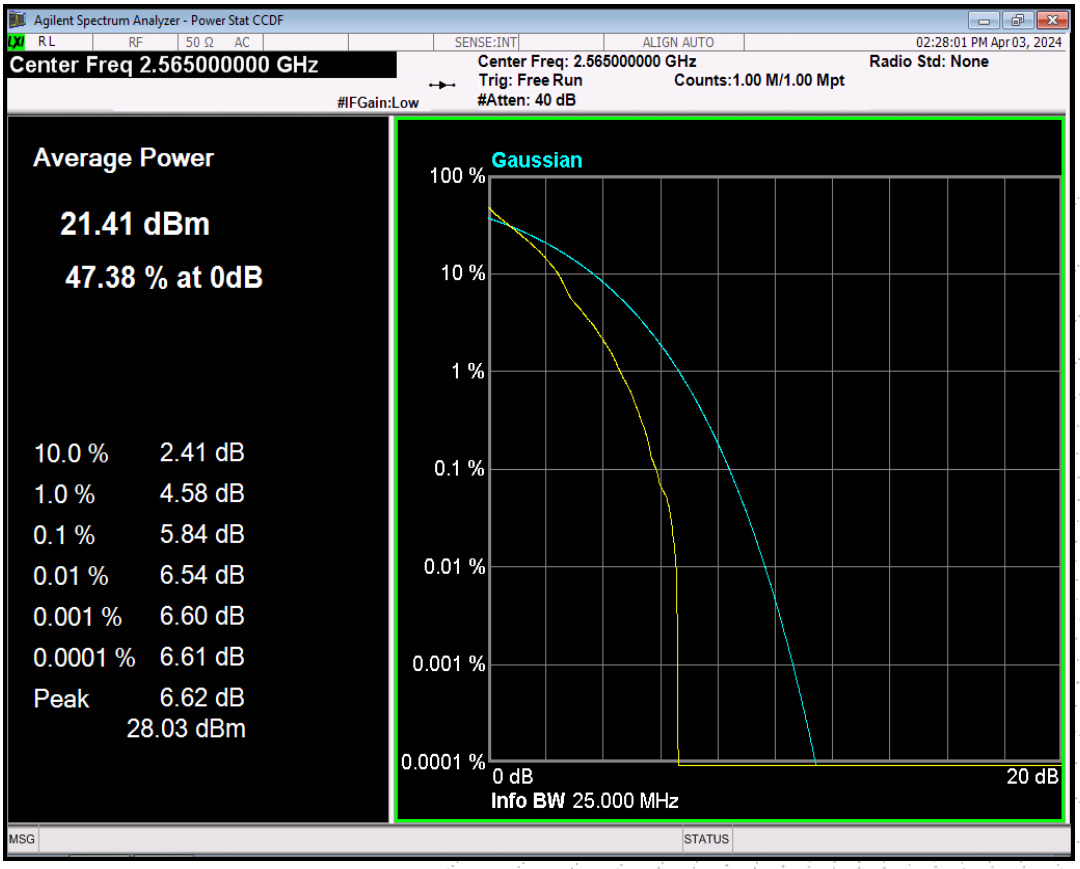
Band7 QPSK BW=10MHz Channel=20800 RB Size=1 Position=#0



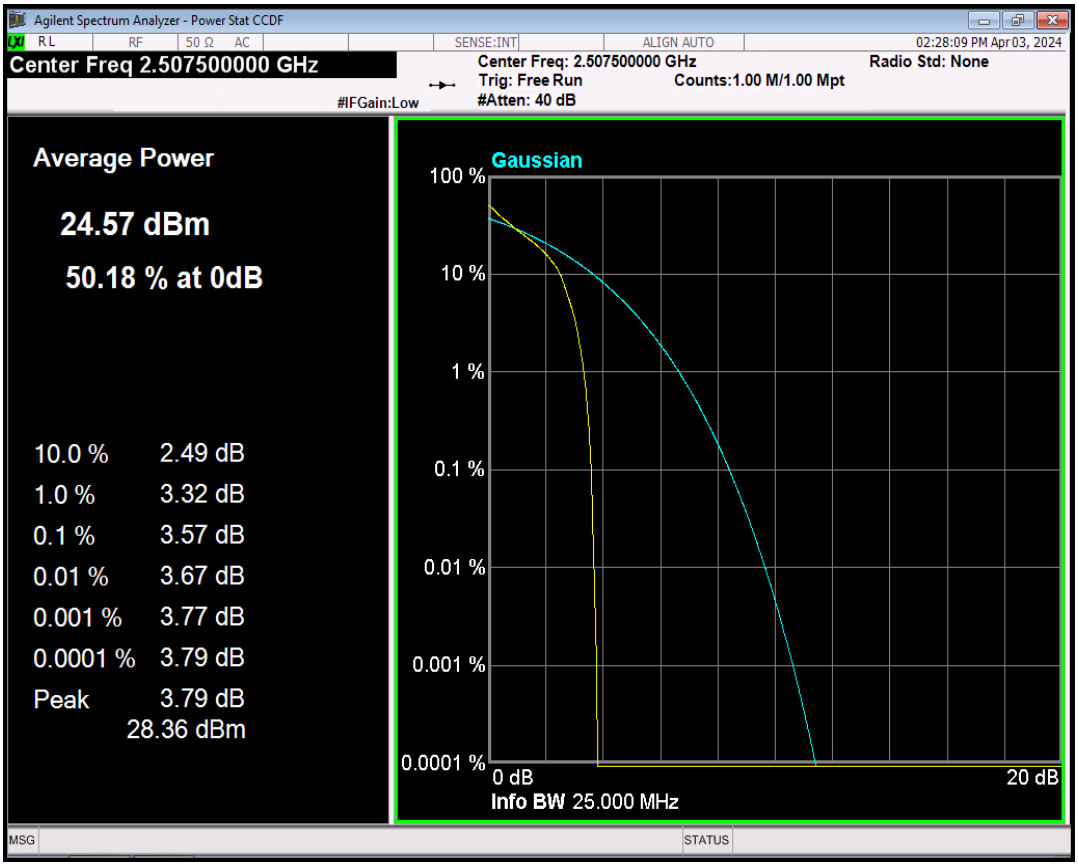
Band7 QPSK BW=10MHz Channel=21100 RB Size=1 Position=#0



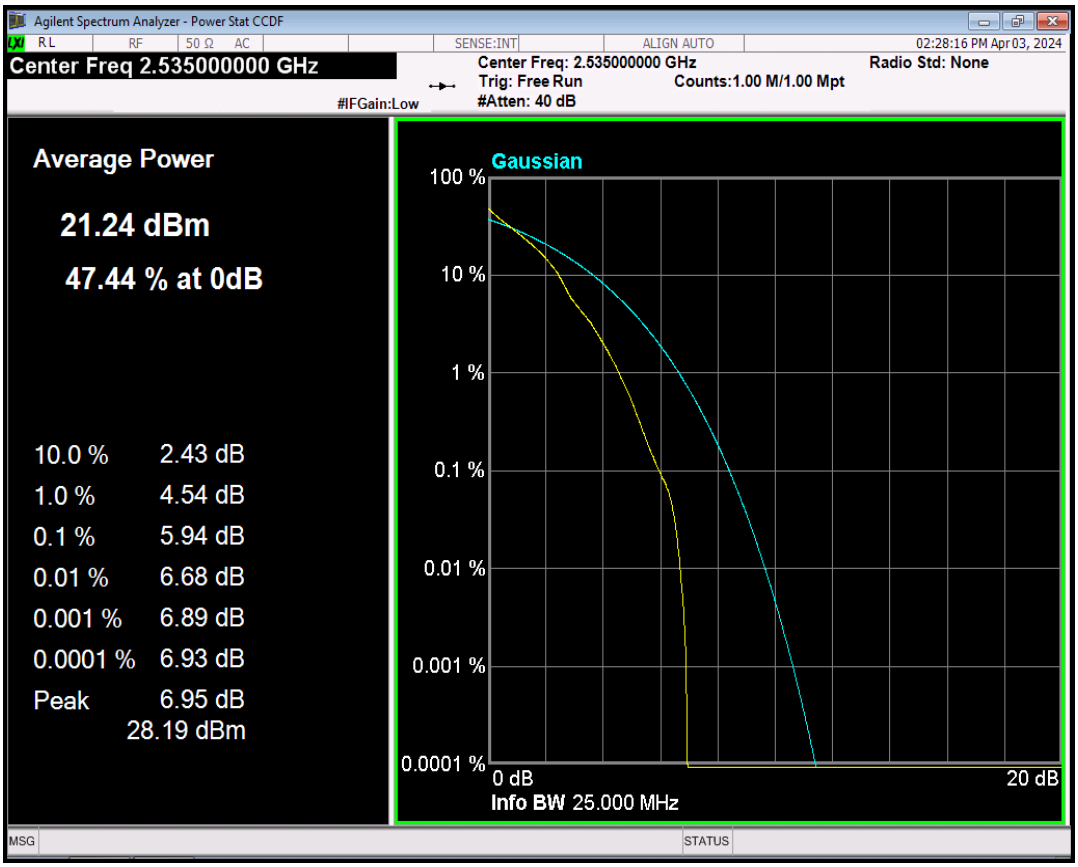
Band7 QPSK BW=10MHz Channel=21400 RB Size=1 Position=#0



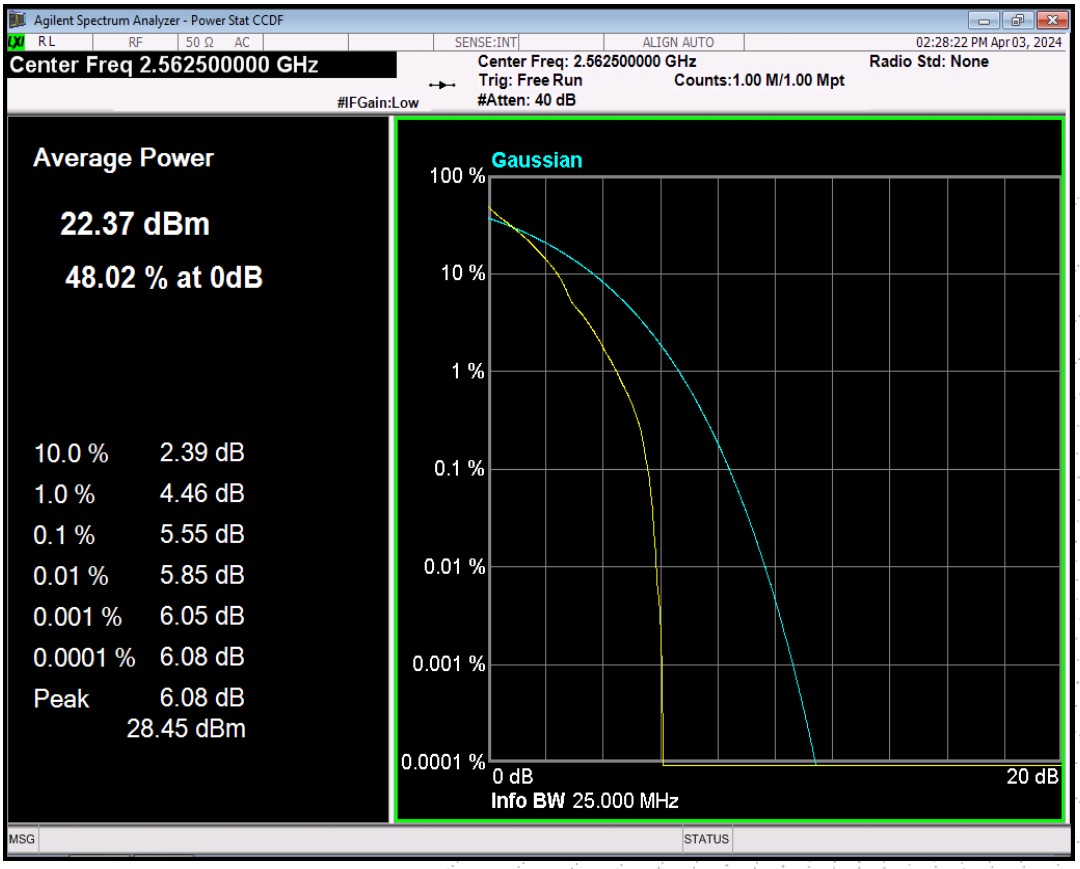
Band7 QPSK BW=15MHz Channel=20825 RB Size=1 Position=#0



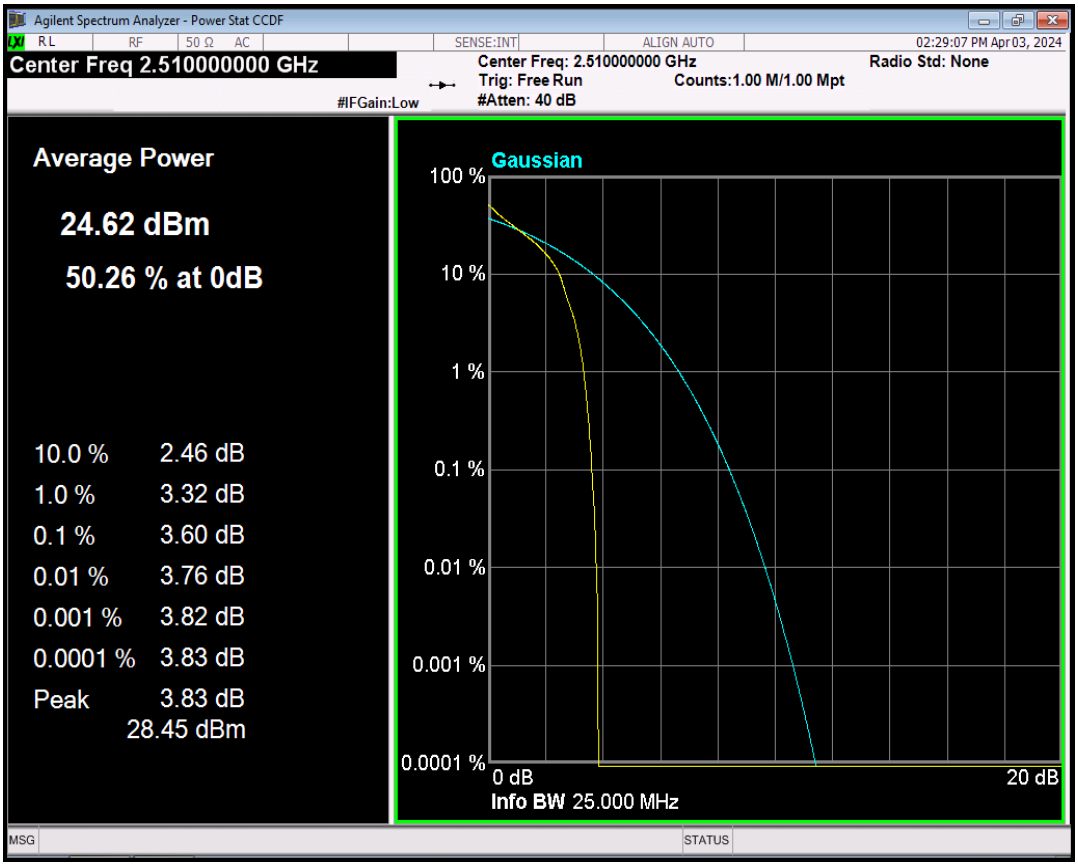
Band7 QPSK BW=15MHz Channel=21100 RB Size=1 Position=#0



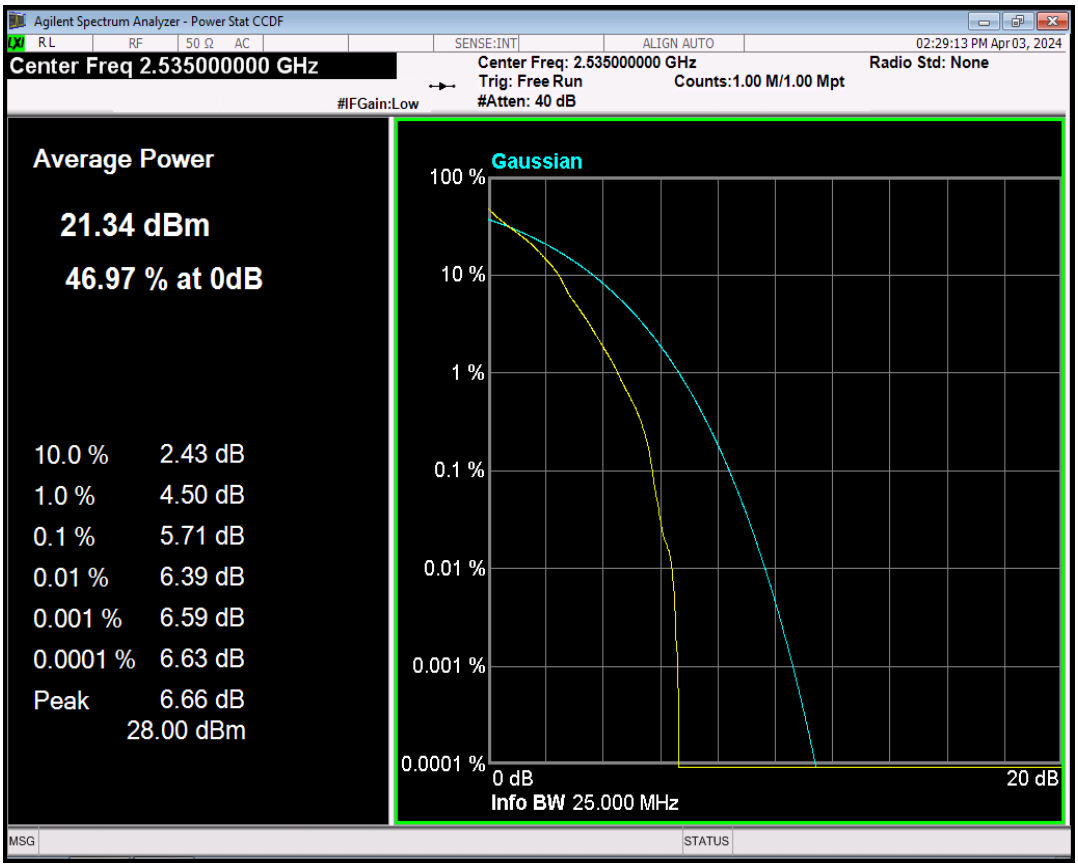
Band7 QPSK BW=15MHz Channel=21375 RB Size=1 Position=#0



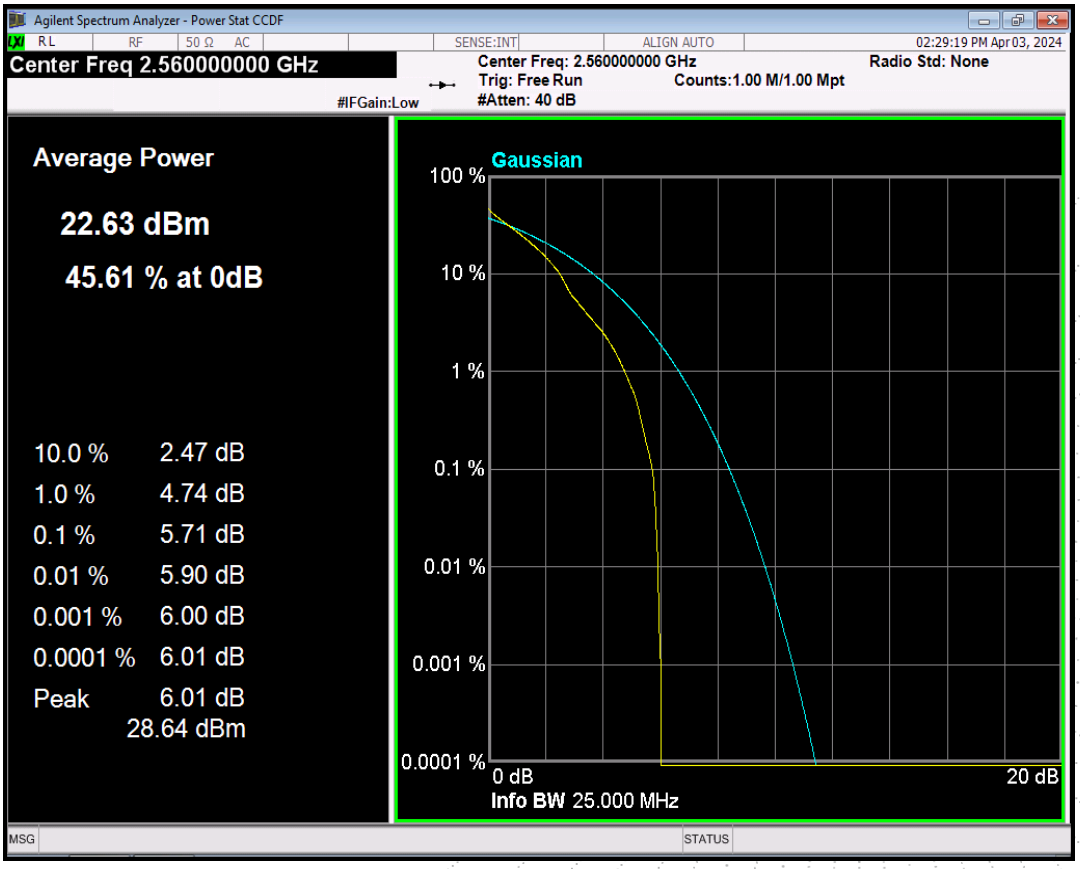
Band7 QPSK BW=20MHz Channel=20850 RB Size=1 Position=#0



Band7 QPSK BW=20MHz Channel=21100 RB Size=1 Position=#0



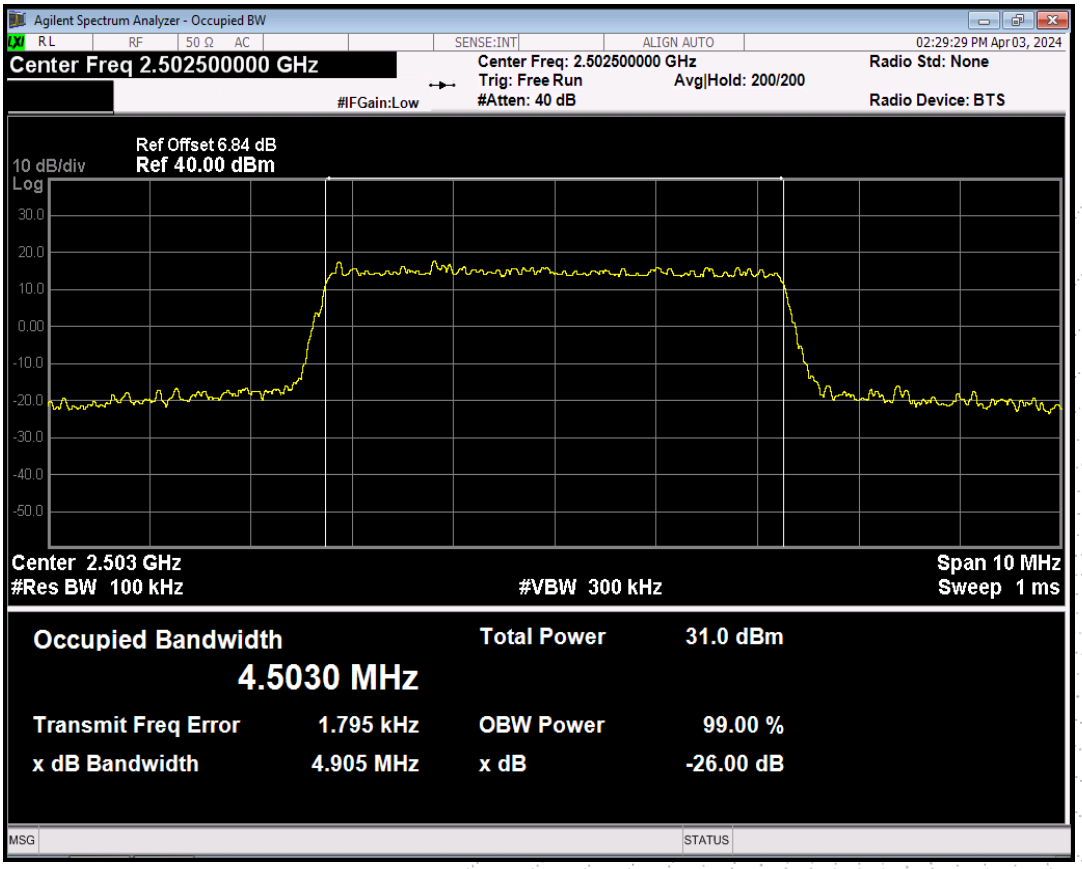
Band7 QPSK BW=20MHz Channel=21350 RB Size=1 Position=#0



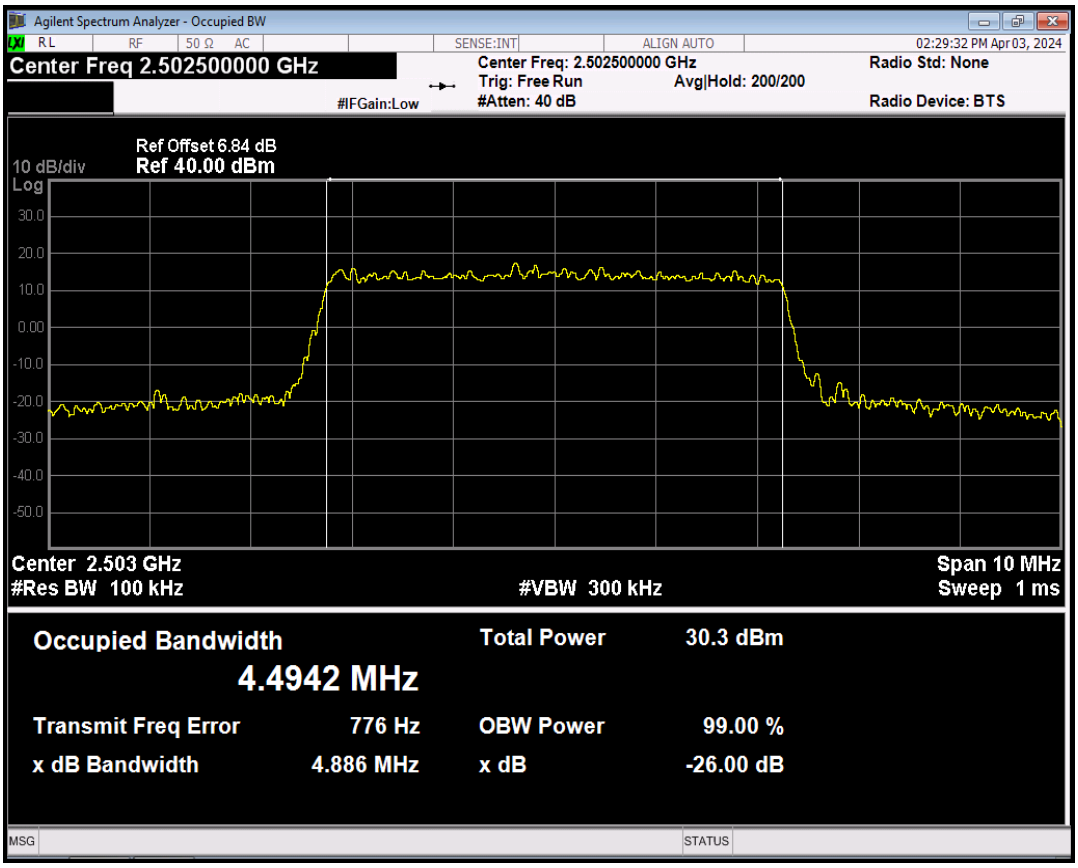
Appendix 4. Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band7	5	20775	25	#0	QPSK	4.503	4.905	PASS
Band7	5	20775	25	#0	16QAM	4.494	4.886	PASS
Band7	5	21100	25	#0	QPSK	4.509	4.915	PASS
Band7	5	21100	25	#0	16QAM	4.504	4.964	PASS
Band7	5	21425	25	#0	QPSK	4.511	4.922	PASS
Band7	5	21425	25	#0	16QAM	4.496	4.904	PASS
Band7	10	20800	50	#0	QPSK	8.947	9.627	PASS
Band7	10	21100	50	#0	QPSK	8.947	9.675	PASS
Band7	10	21400	50	#0	QPSK	8.957	9.673	PASS
Band7	15	20825	75	#0	QPSK	13.460	14.422	PASS
Band7	15	21100	75	#0	QPSK	13.419	14.397	PASS
Band7	15	21375	75	#0	QPSK	13.474	14.555	PASS
Band7	20	20850	100	#0	QPSK	17.987	19.147	PASS
Band7	20	21100	100	#0	QPSK	17.881	19.068	PASS
Band7	20	21350	100	#0	QPSK	17.950	19.156	PASS

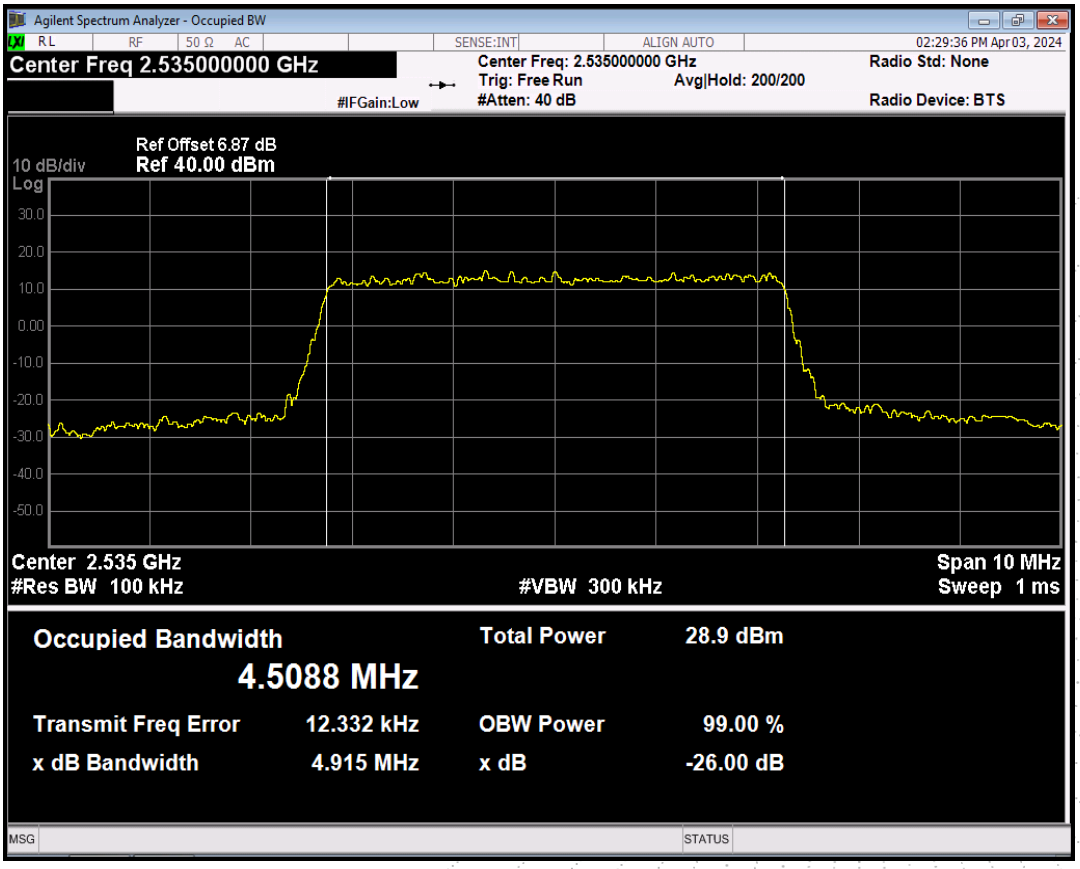
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



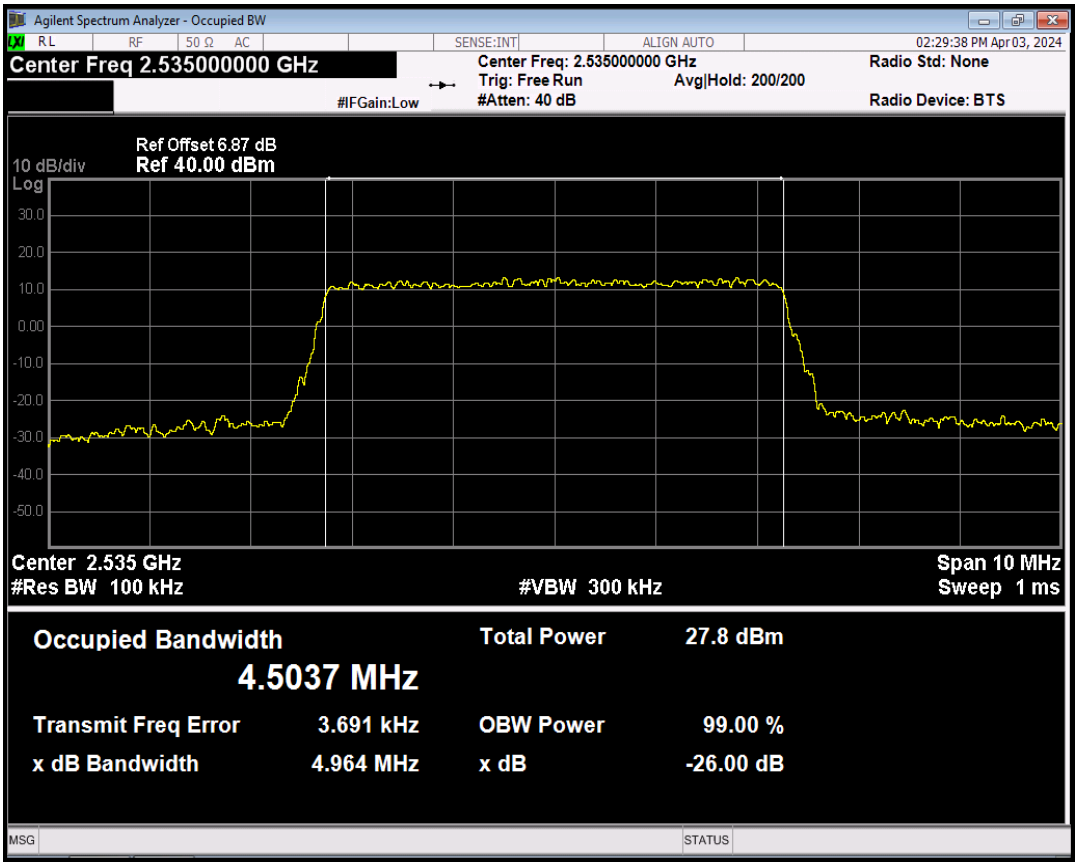
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



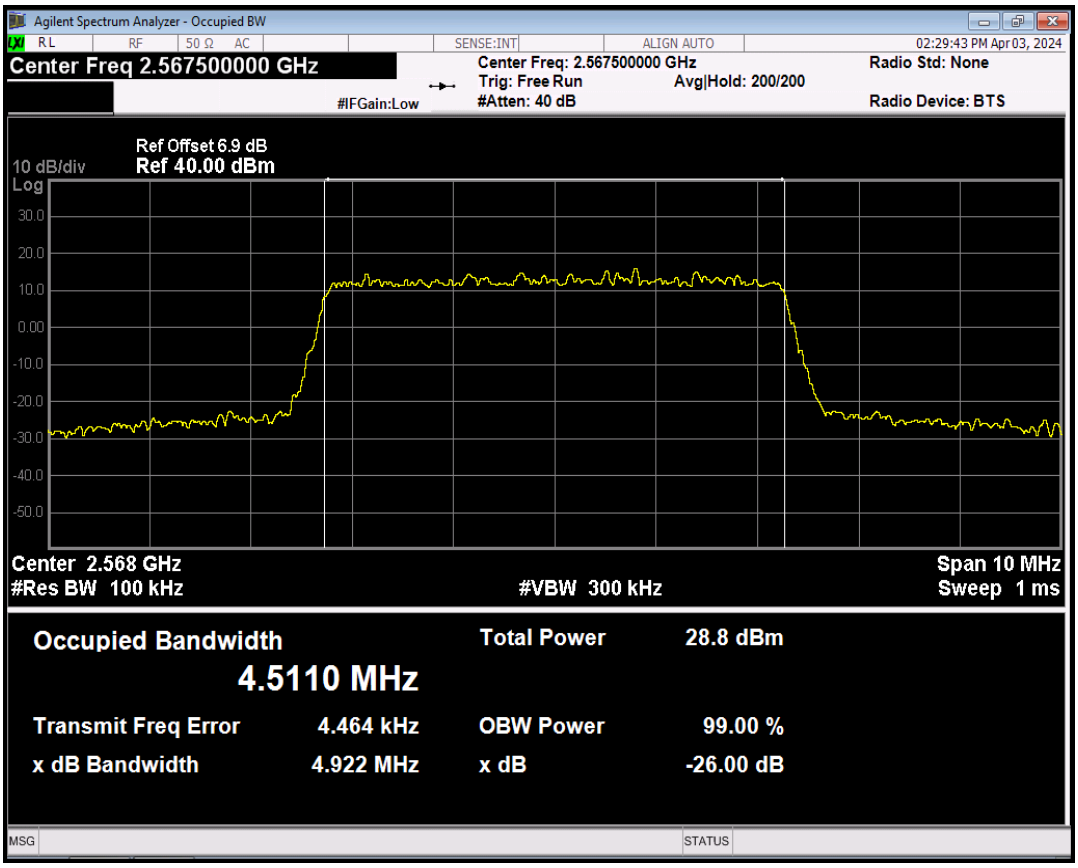
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



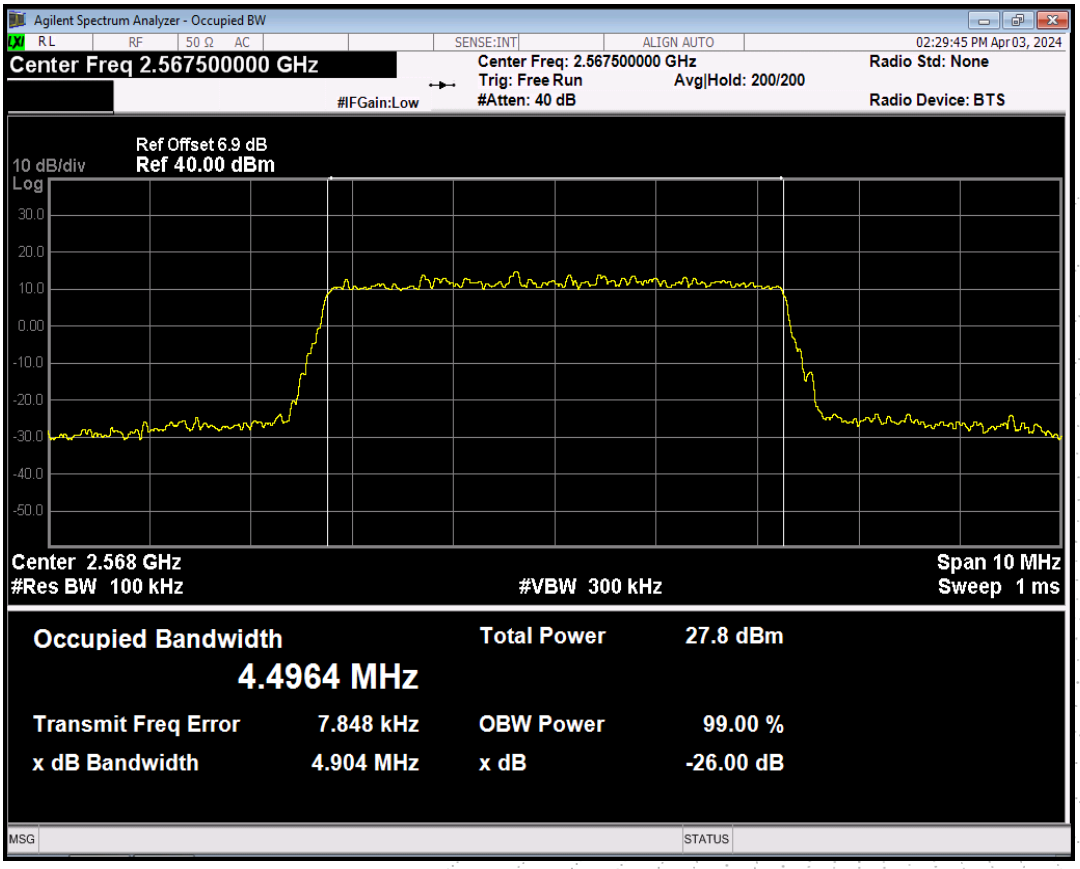
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



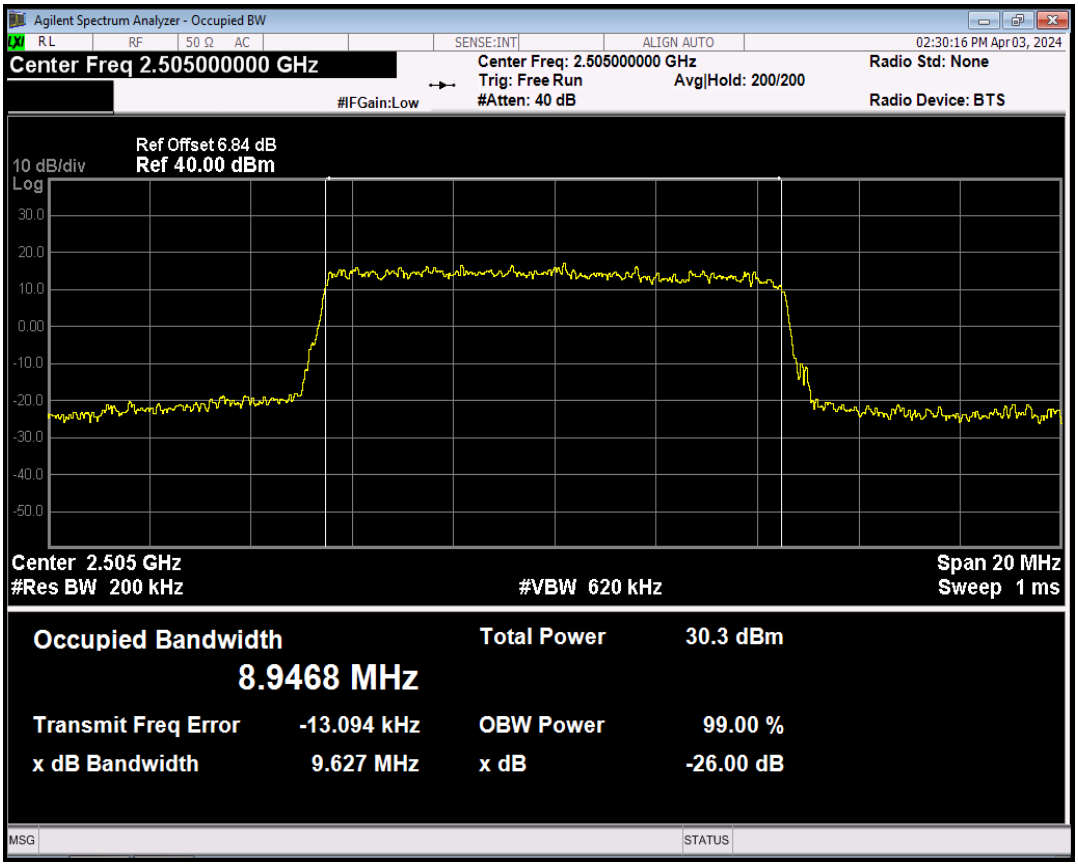
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



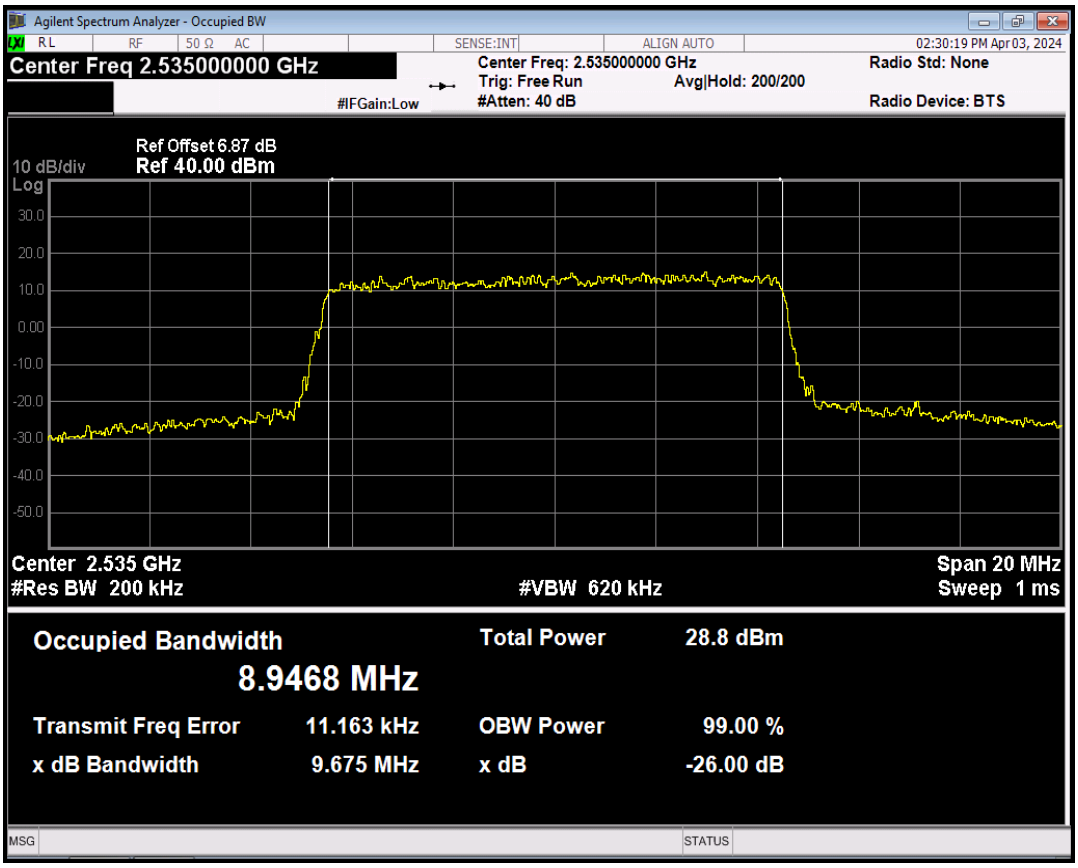
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



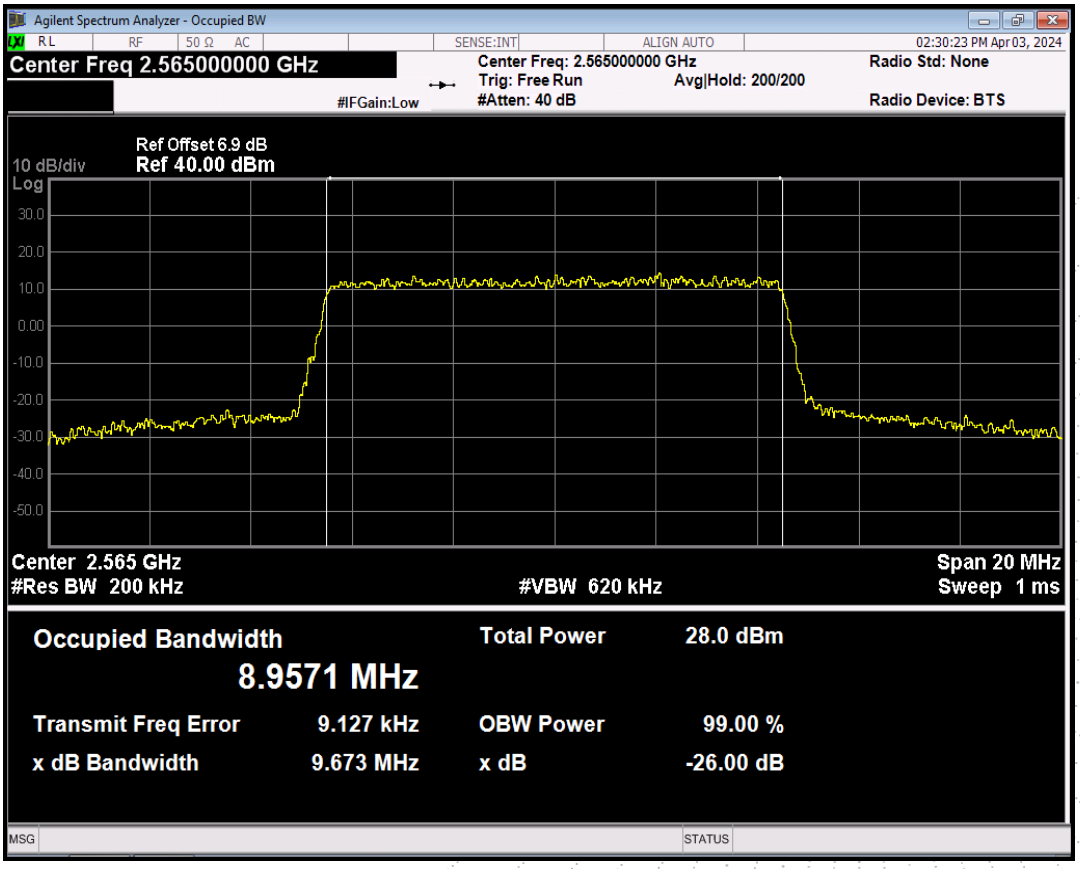
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



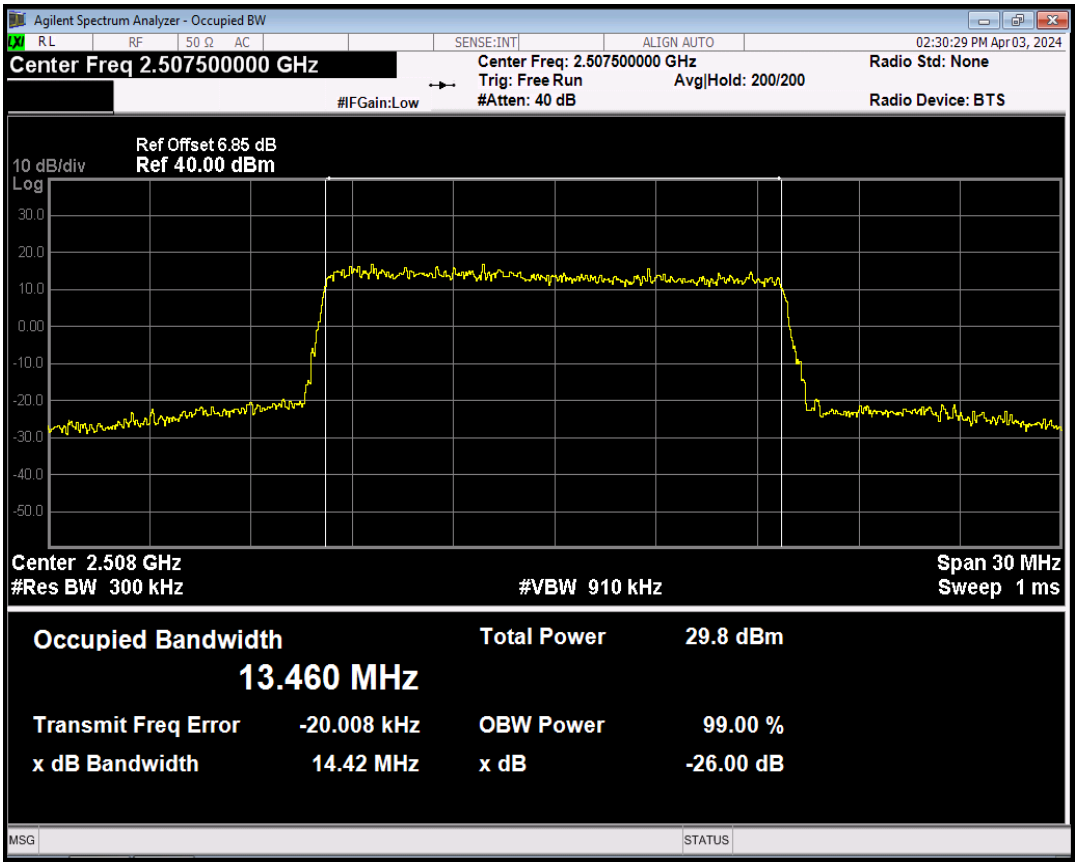
Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



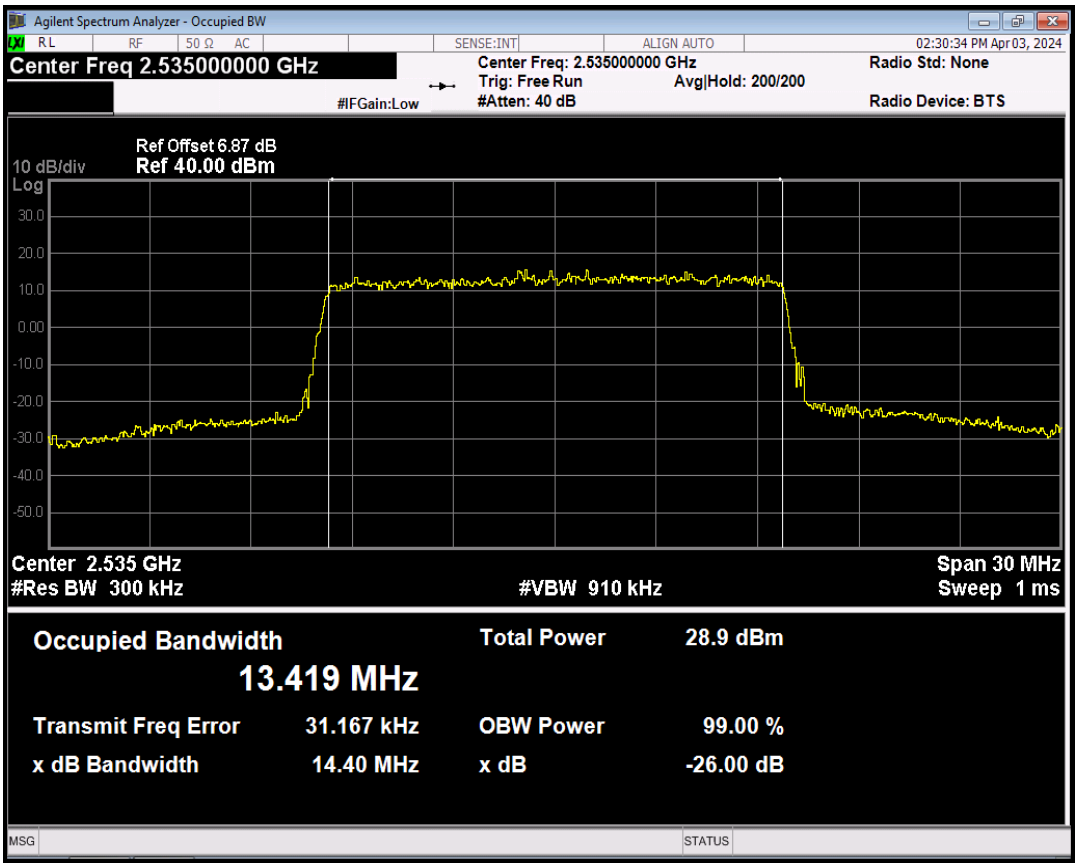
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



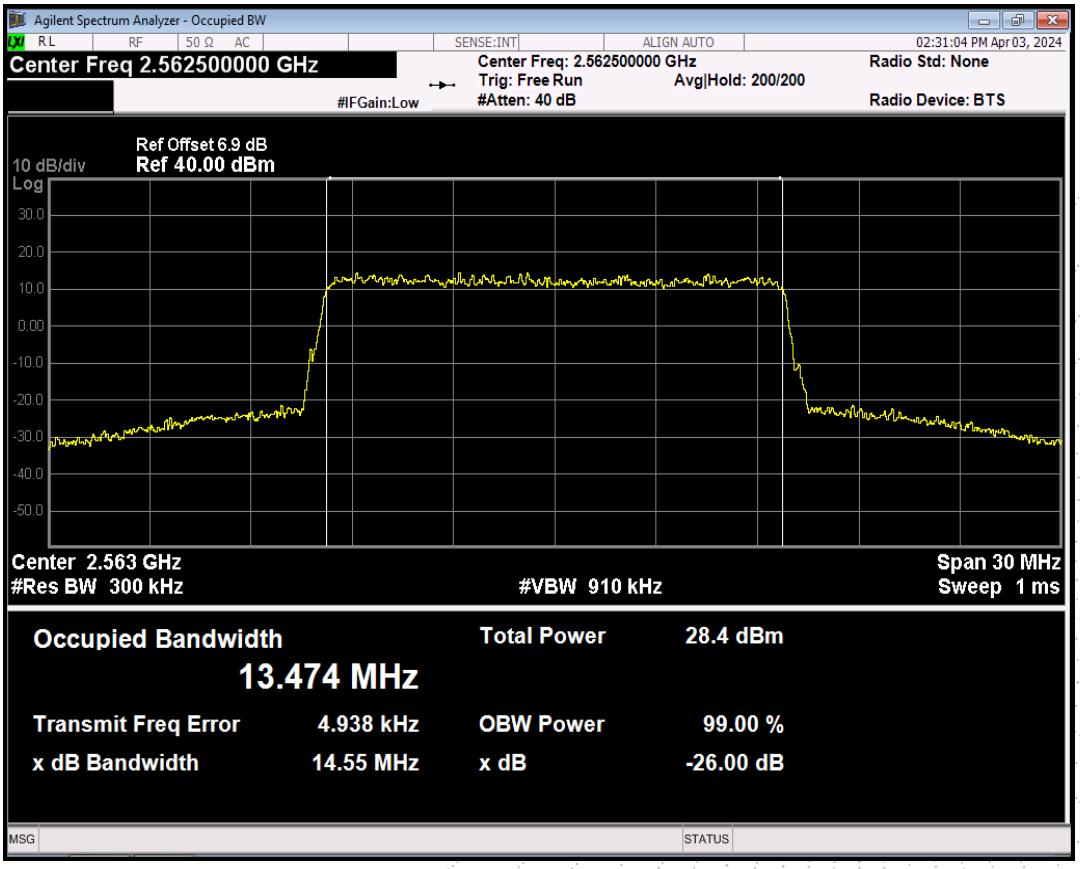
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



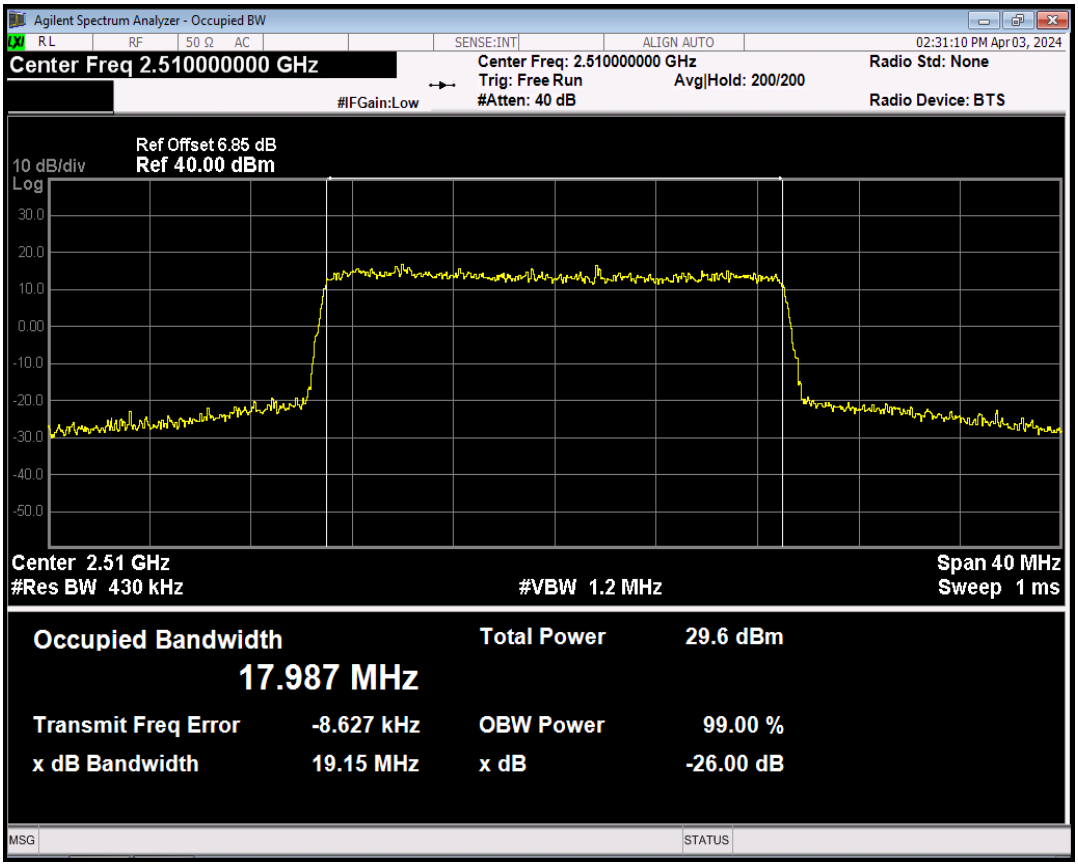
Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



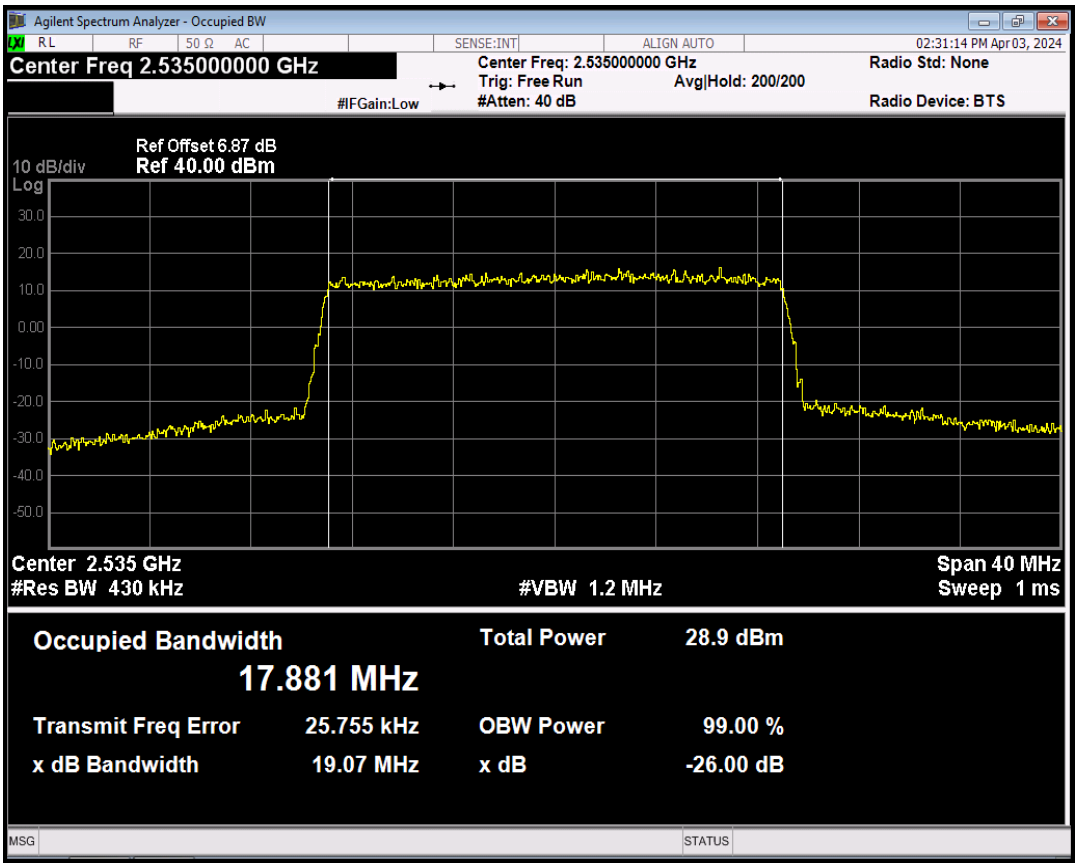
Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



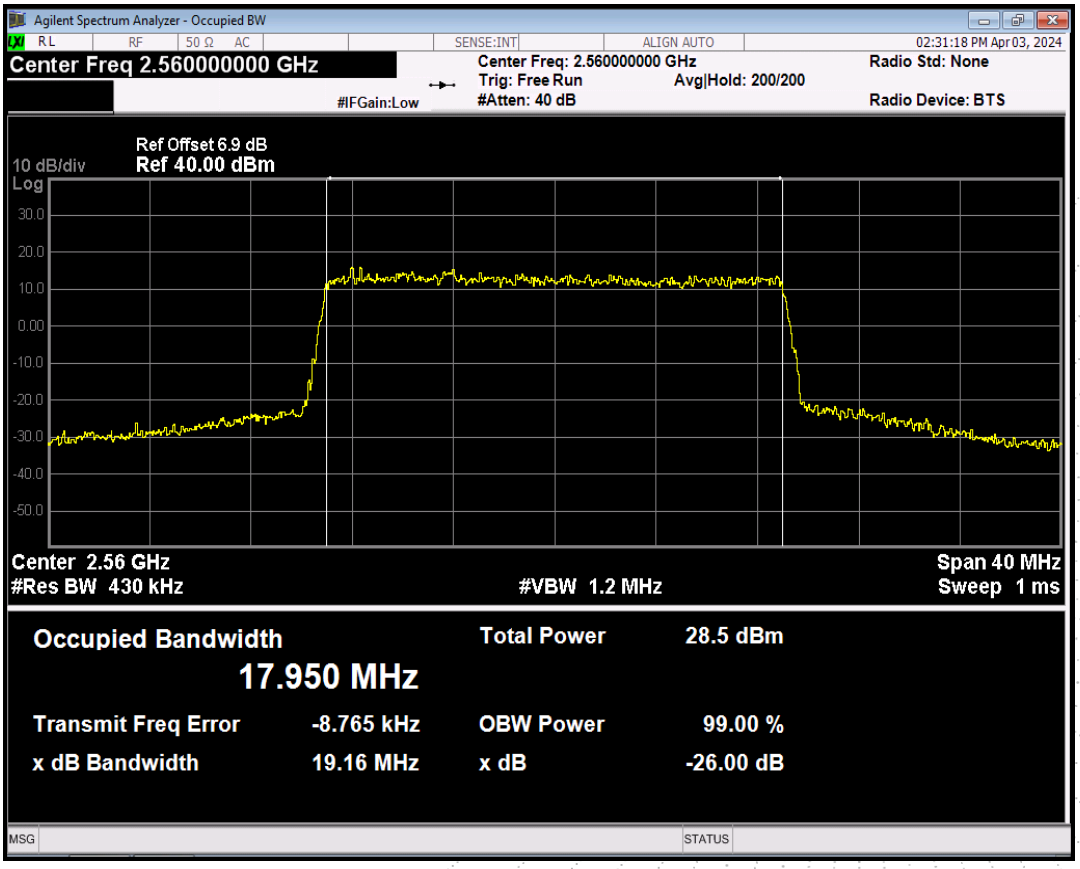
Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



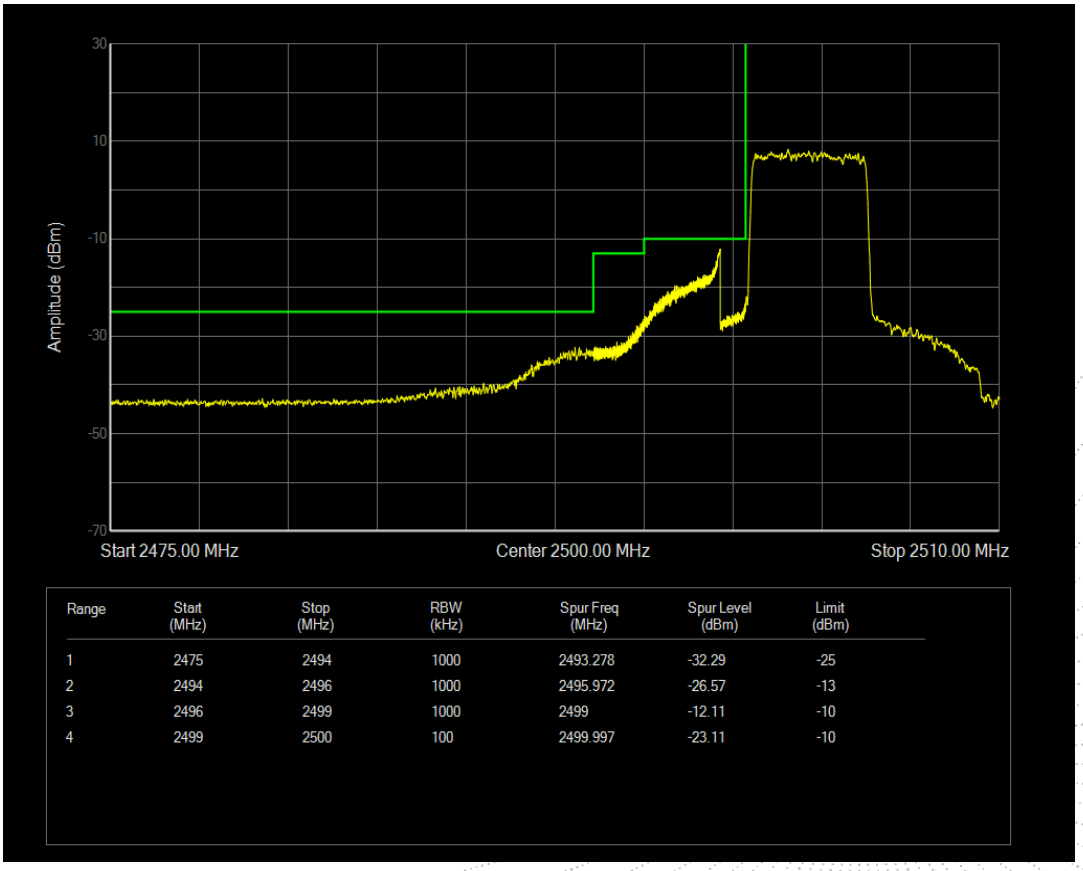
Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



Appendix 5. Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band7	5	20775	25	#0	QPSK	2499.00	-12.11	-10	PASS
Band7	5	20775	25	#0	16QAM	2499.00	-12.09	-10	PASS
Band7	5	21425	25	#0	QPSK	2571.01	-14.40	-10	PASS
Band7	5	21425	25	#0	16QAM	2571.00	-16.50	-10	PASS
Band7	10	20800	50	#0	QPSK	2498.99	-20.56	-10	PASS
Band7	10	21400	50	#0	QPSK	2571.00	-23.68	-10	PASS
Band7	15	20825	75	#0	QPSK	2498.94	-23.02	-10	PASS
Band7	15	21375	75	#0	QPSK	2571.10	-25.46	-10	PASS
Band7	20	20850	100	#0	QPSK	2498.97	-25.74	-10	PASS
Band7	20	21350	100	#0	QPSK	2571.01	-26.89	-10	PASS

Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2494	1000	2493.81	-33.91	-25
2	2494	2496	1000	2495.938	-27.83	-13
3	2496	2499	1000	2498.997	-12.09	-10
4	2499	2500	100	2499.983	-24.62	-10

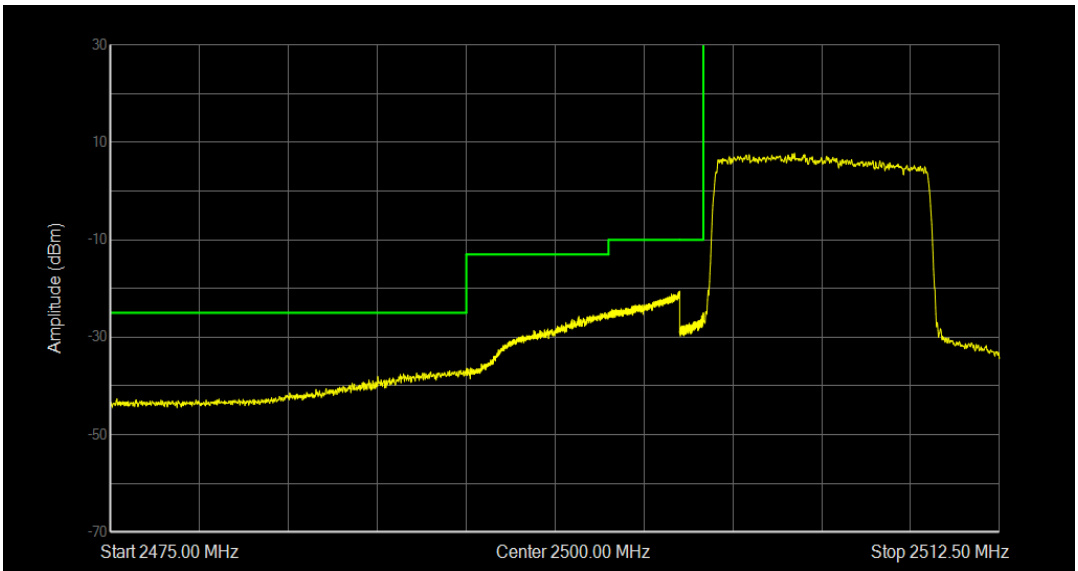
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0

Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2570	2571	100	2570.017	-26.38	-10
2	2571	2575	1000	2571.008	-14.4	-10
3	2575	2576	1000	2575.058	-40.26	-13
4	2576	2595	1000	2576.722	-41.57	-25

Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0

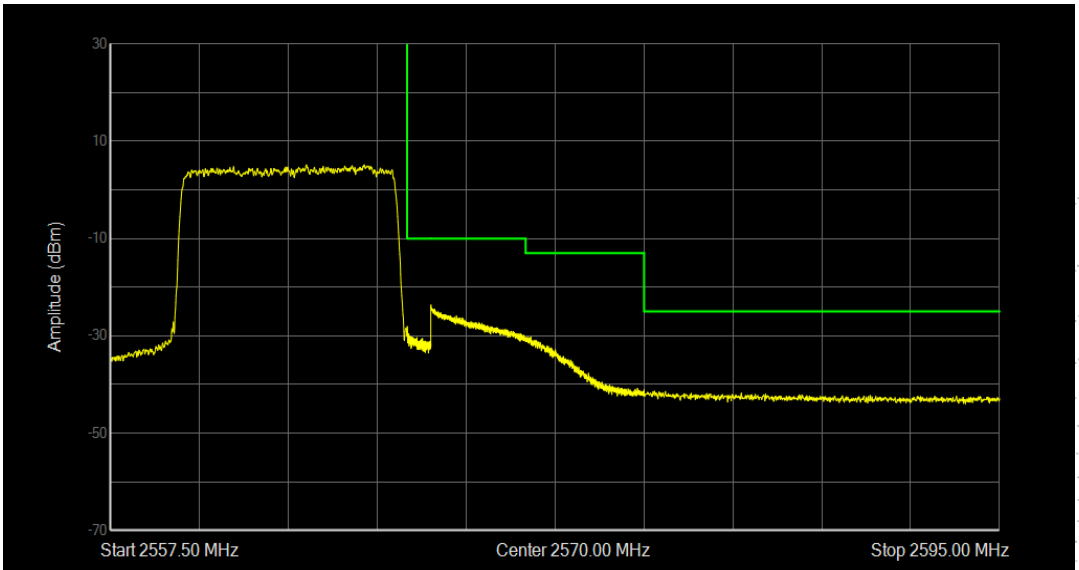
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2570	2571	100	2570.02	-27.86	-10
2	2571	2575	1000	2571.004	-16.5	-10
3	2575	2576	1000	2575.016	-40.43	-13
4	2576	2595	1000	2576.19	-41.5	-25

Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



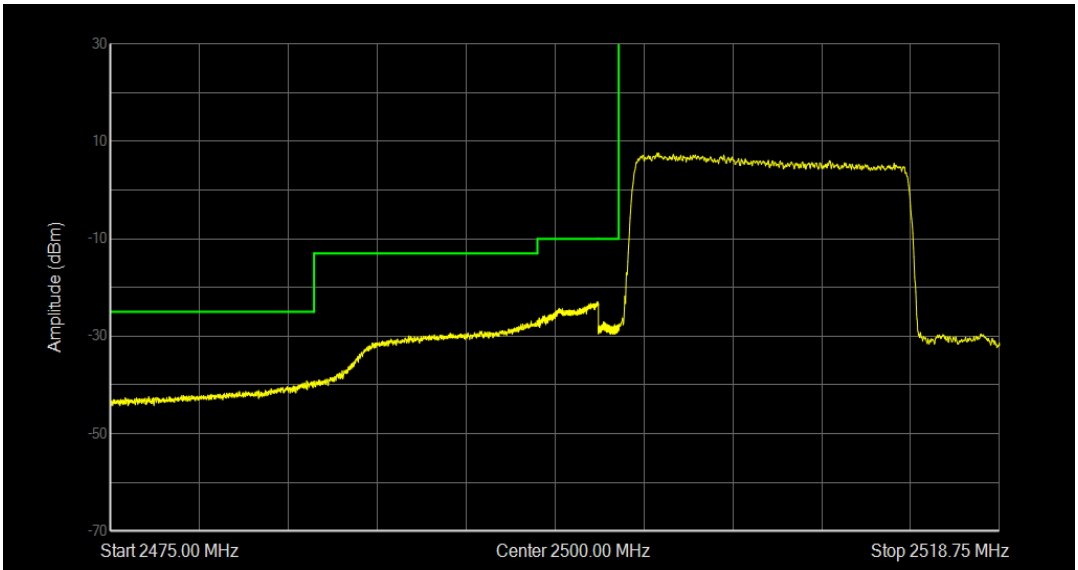
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490	1000	2489.76	-36.81	-25
2	2490	2496	1000	2495.85	-24.95	-13
3	2496	2499	1000	2498.991	-20.56	-10
4	2499	2500	200	2500	-24.98	-10

Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



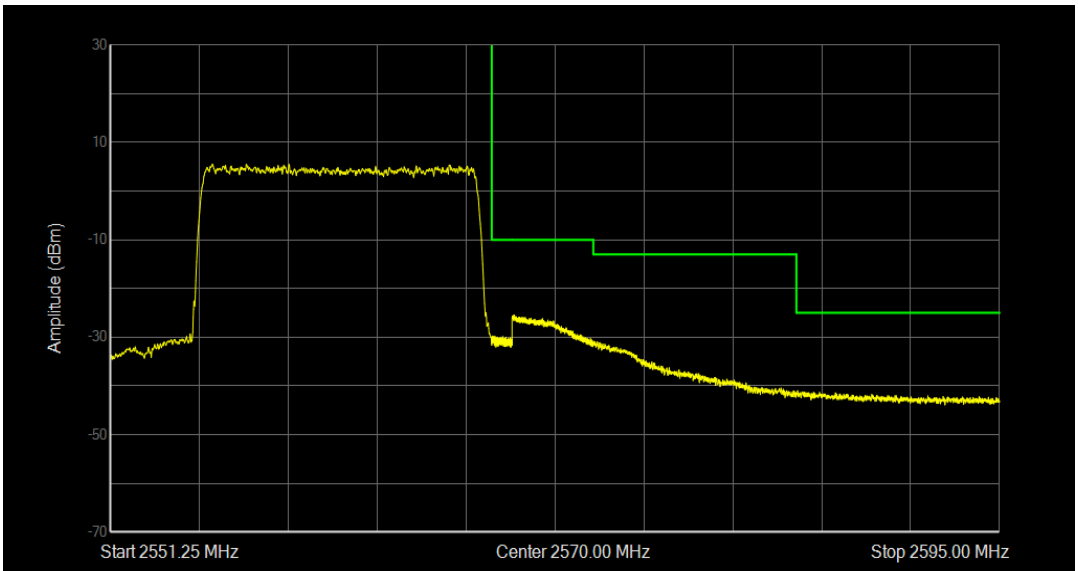
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2570	2571	200	2570.007	-28.08	-10
2	2571	2575	1000	2571.004	-23.68	-10
3	2575	2580	1000	2575.22	-30.21	-13
4	2580	2595	1000	2580.435	-41.36	-25

Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



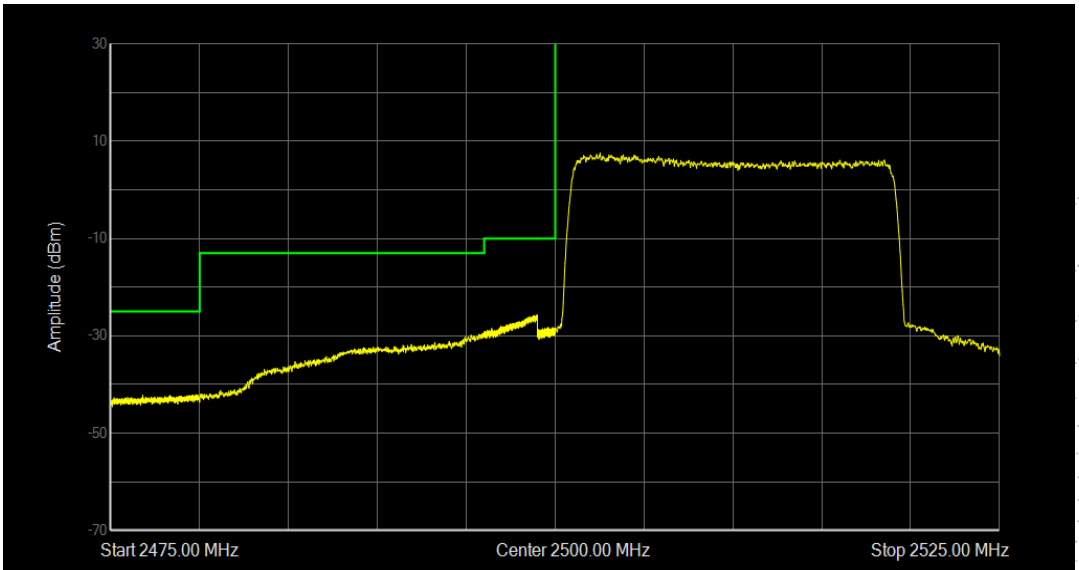
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2485	1000	2484.64	-39.18	-25
2	2485	2496	1000	2495.989	-26.73	-13
3	2496	2499	1000	2498.943	-23.02	-10
4	2499	2500	300	2499.26	-27.04	-10

Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



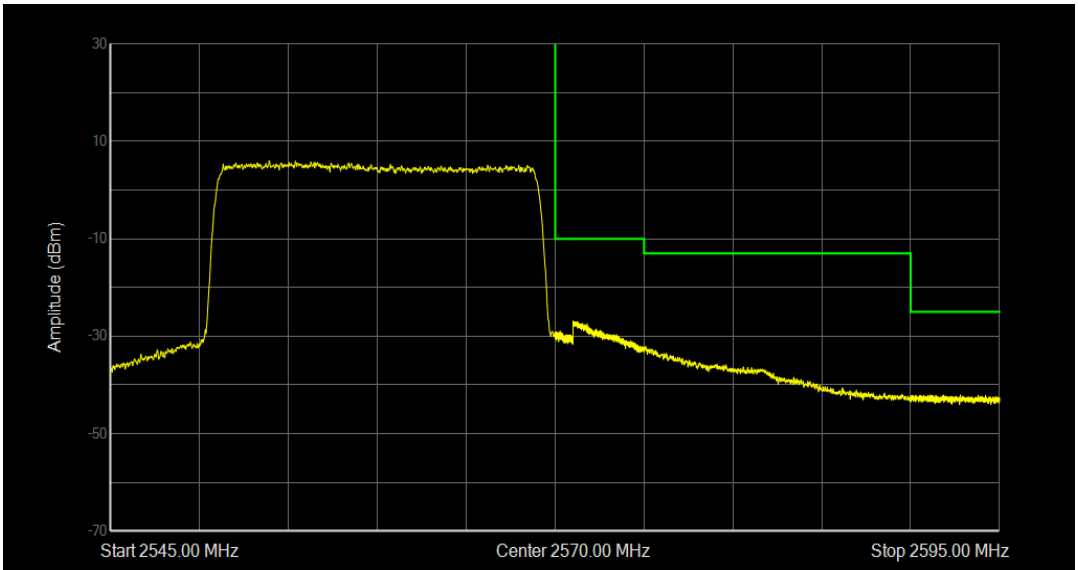
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2570	2571	300	2570.023	-29.76	-10
2	2571	2575	1000	2571.104	-25.46	-10
3	2575	2585	1000	2575.06	-30.89	-13
4	2585	2595	1000	2585.06	-40.97	-25

Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2480	1000	2479.795	-42.13	-25
2	2480	2496	1000	2495.936	-29.49	-13
3	2496	2499	1000	2498.973	-25.74	-10
4	2499	2500	430	2499.616	-28.27	-10

Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0

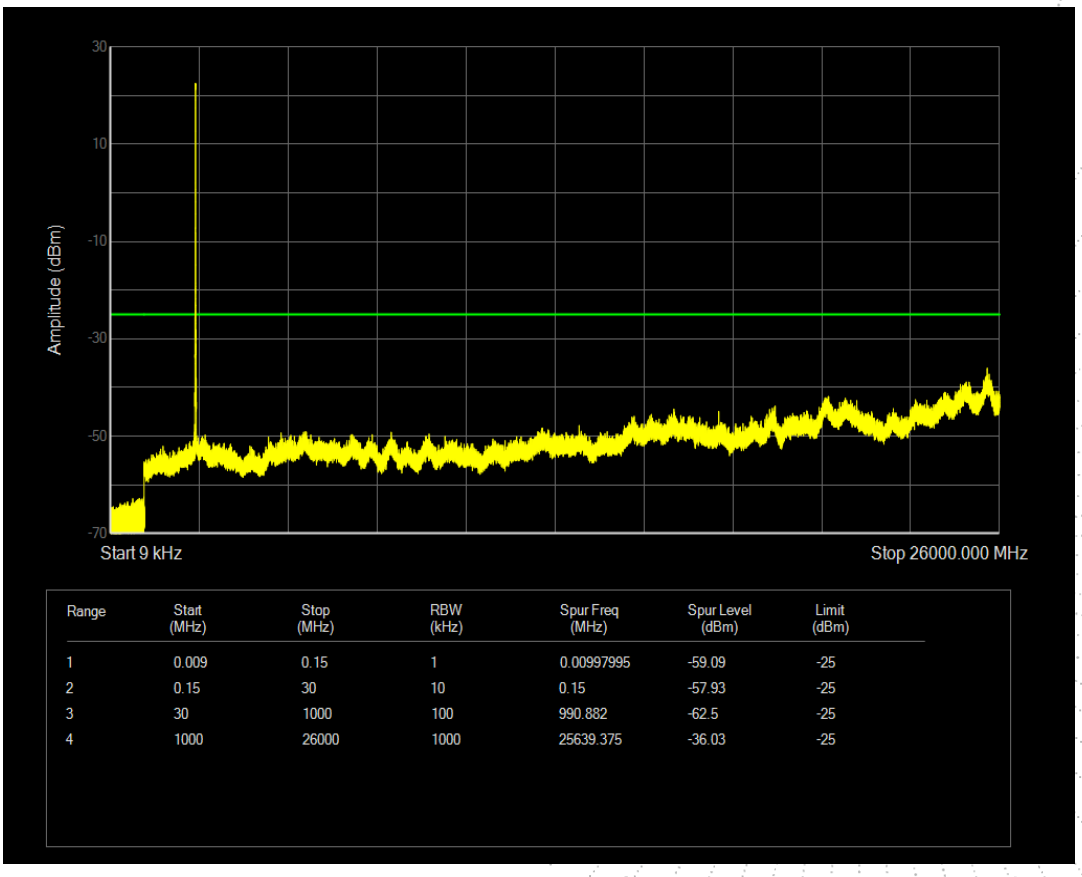


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2570	2571	430	2570.27	-28.94	-10
2	2571	2575	1000	2571.008	-26.89	-10
3	2575	2590	1000	2575.09	-32.11	-13
4	2590	2595	1000	2592.8	-42.07	-25

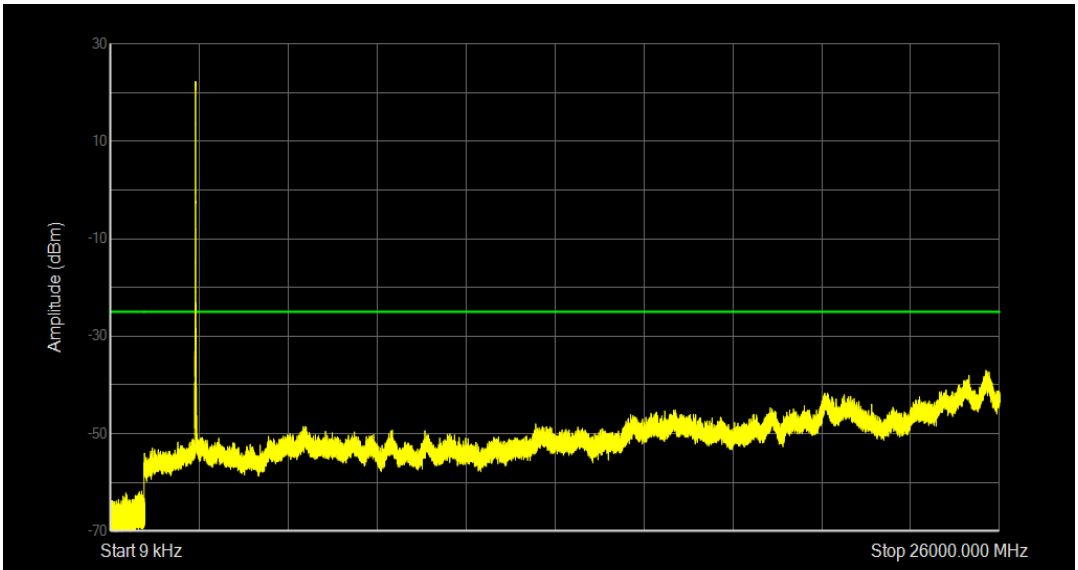
Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band7	5	20775	25	#0	QPSK	25639.38	-36.03	-25	PASS
Band7	5	20775	25	#0	16QAM	25601.88	-37.02	-25	PASS
Band7	5	21100	25	#0	QPSK	25626.25	-37.27	-25	PASS
Band7	5	21100	25	#0	16QAM	25619.38	-37.38	-25	PASS
Band7	5	21425	25	#0	QPSK	25620.00	-37.09	-25	PASS
Band7	5	21425	25	#0	16QAM	25744.38	-36.82	-25	PASS
Band7	10	20800	50	#0	QPSK	25633.13	-36.50	-25	PASS
Band7	10	21100	50	#0	QPSK	25575.00	-37.48	-25	PASS
Band7	10	21400	50	#0	QPSK	25625.00	-36.54	-25	PASS
Band7	15	20825	75	#0	QPSK	25633.13	-37.35	-25	PASS
Band7	15	21100	75	#0	QPSK	25617.50	-37.51	-25	PASS
Band7	15	21375	75	#0	QPSK	25656.88	-37.10	-25	PASS
Band7	20	20850	100	#0	QPSK	25640.63	-36.78	-25	PASS
Band7	20	21100	100	#0	QPSK	25645.00	-37.02	-25	PASS
Band7	20	21350	100	#0	QPSK	25652.50	-36.93	-25	PASS

Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0

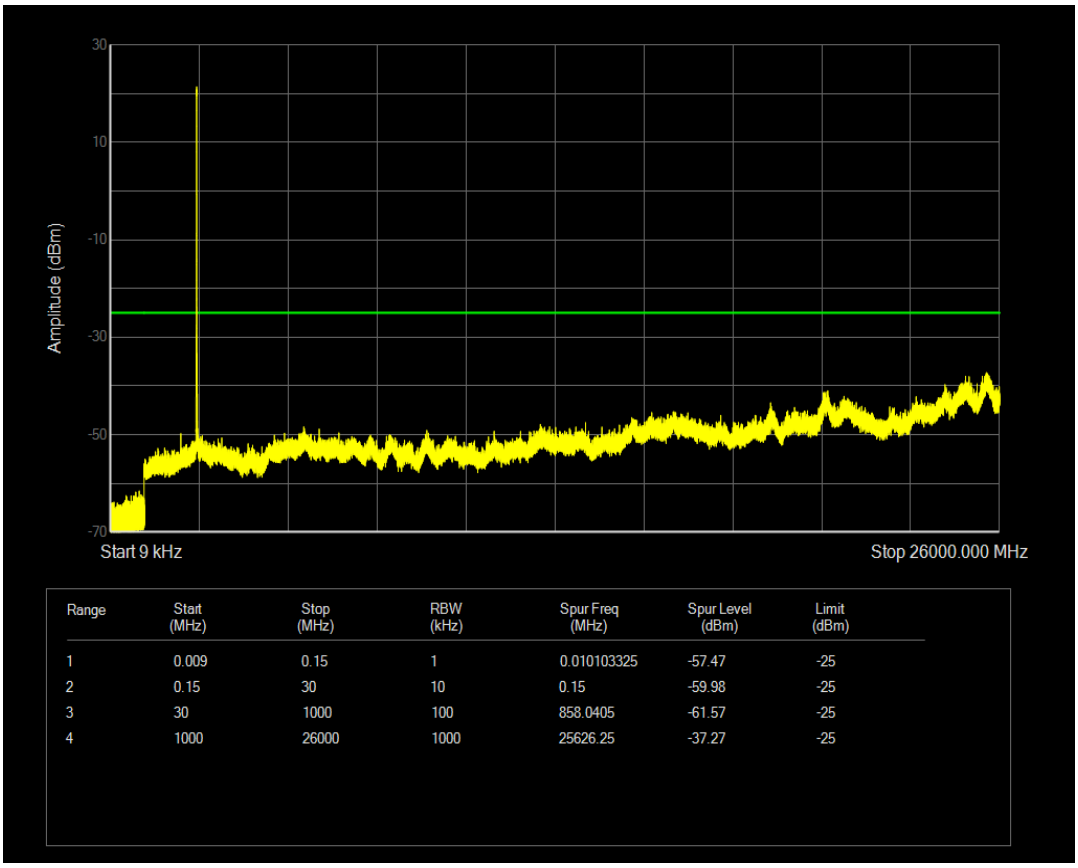


Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



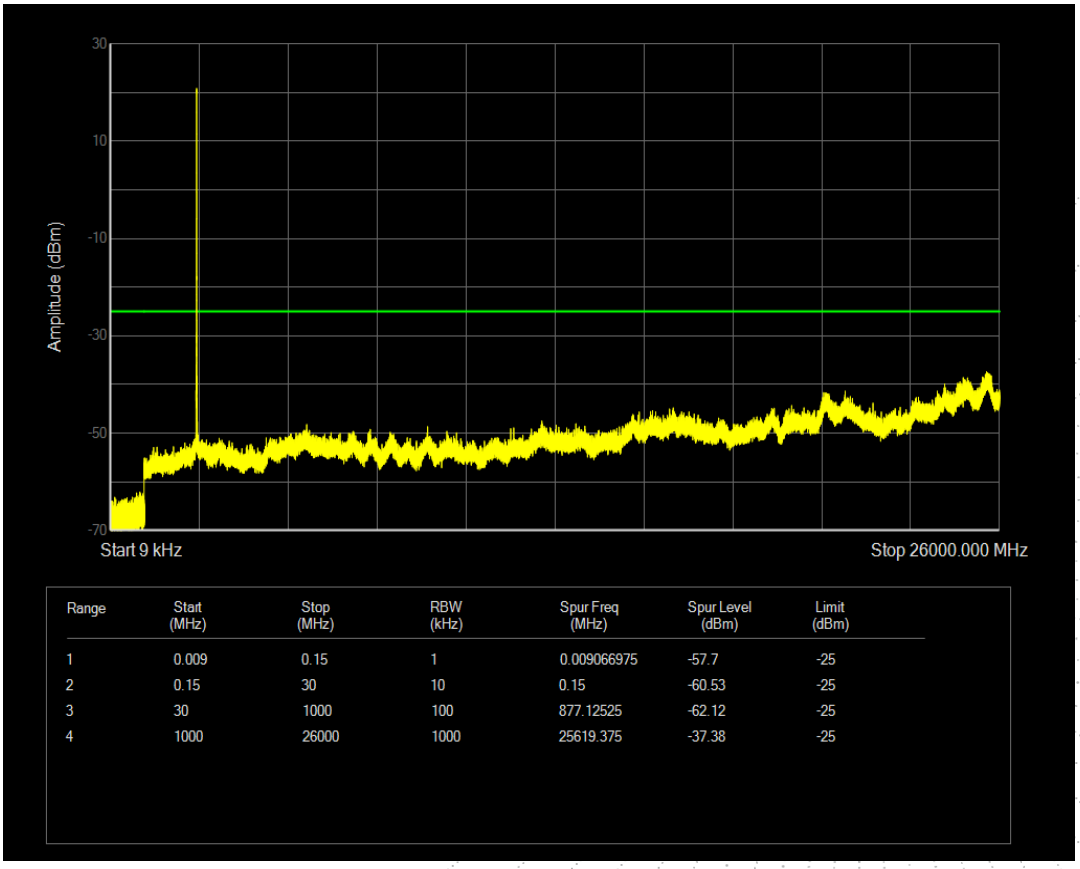
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0100575	-57.05	-25
2	0.15	30	10	0.152985	-60.02	-25
3	30	1000	100	932.1485	-61.8	-25
4	1000	26000	1000	25601.875	-37.02	-25

Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



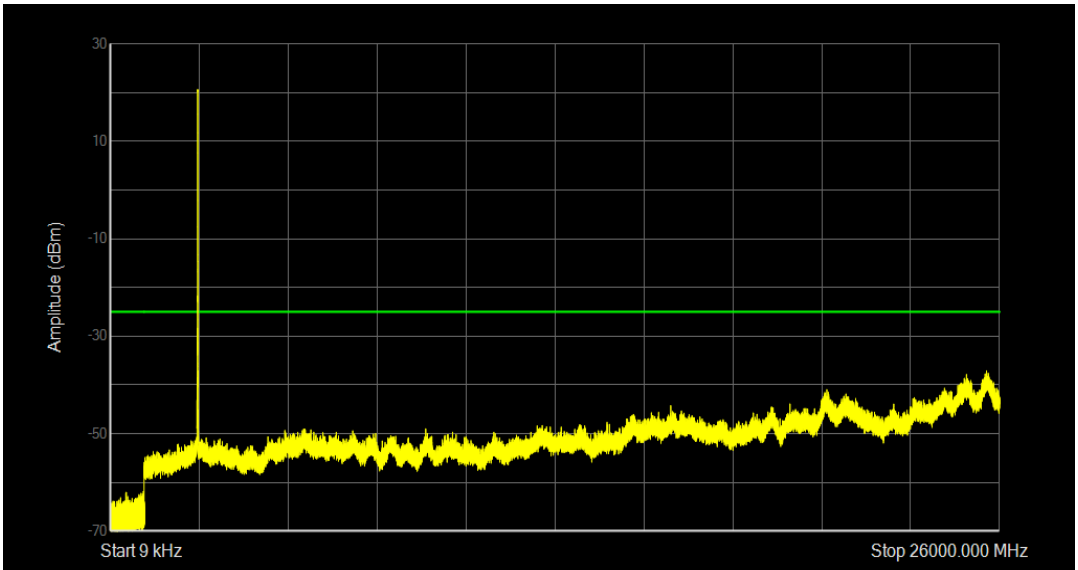
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010103325	-57.47	-25
2	0.15	30	10	0.15	-59.98	-25
3	30	1000	100	858.0405	-61.57	-25
4	1000	26000	1000	25626.25	-37.27	-25

Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



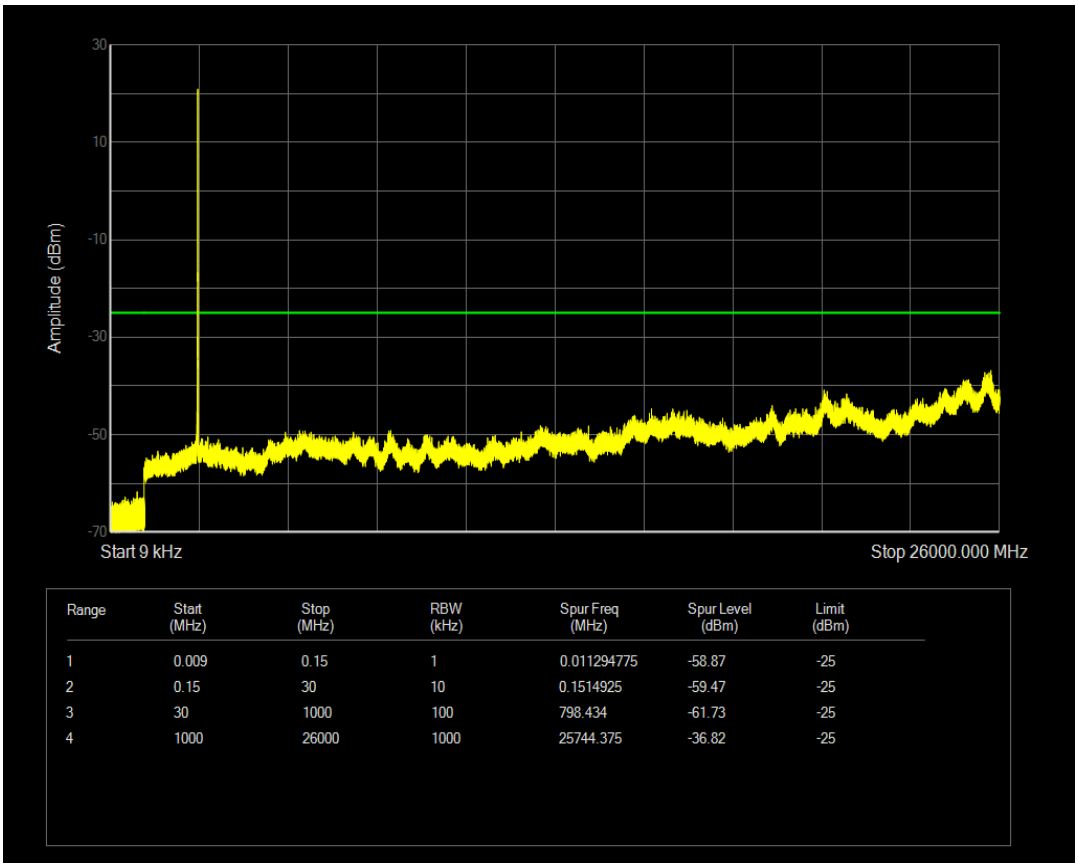
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009066975	-57.7	-25
2	0.15	30	10	0.15	-60.53	-25
3	30	1000	100	877.12525	-62.12	-25
4	1000	26000	1000	25619.375	-37.38	-25

Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



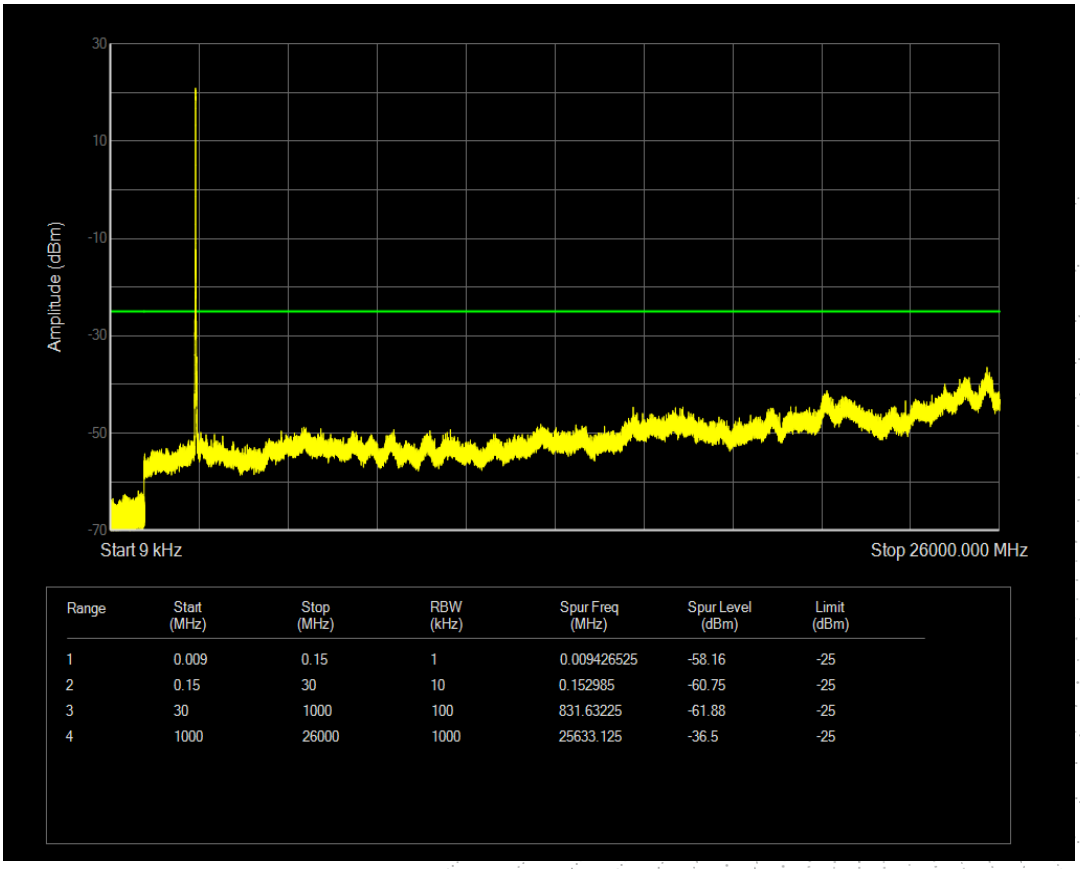
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010582725	-59.65	-25
2	0.15	30	10	0.15	-59.88	-25
3	30	1000	100	982.2005	-61.84	-25
4	1000	26000	1000	25620	-37.09	-25

Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



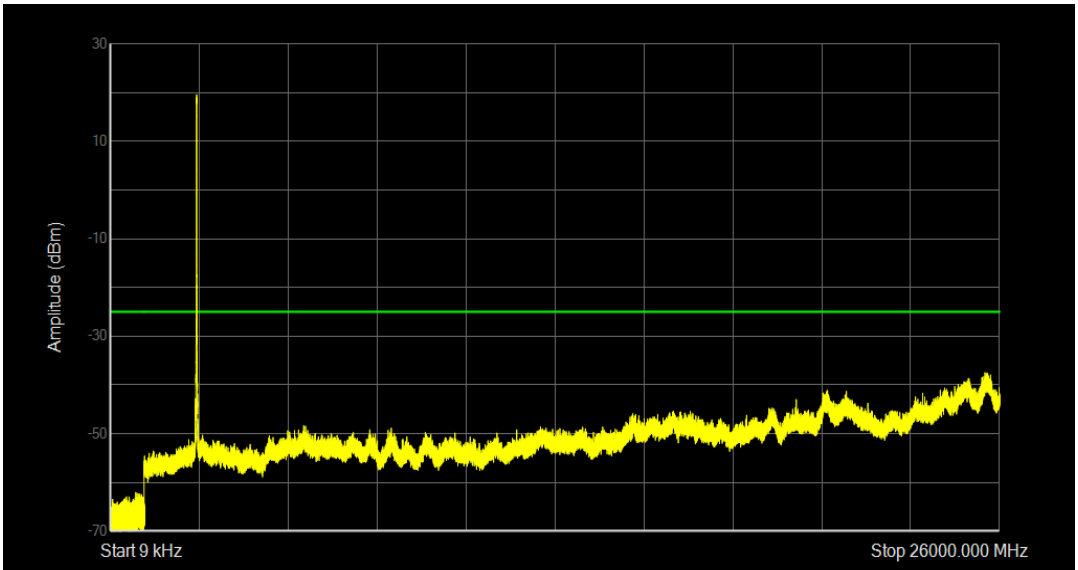
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011294775	-58.87	-25
2	0.15	30	10	0.1514925	-59.47	-25
3	30	1000	100	798.434	-61.73	-25
4	1000	26000	1000	25744.375	-36.82	-25

Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



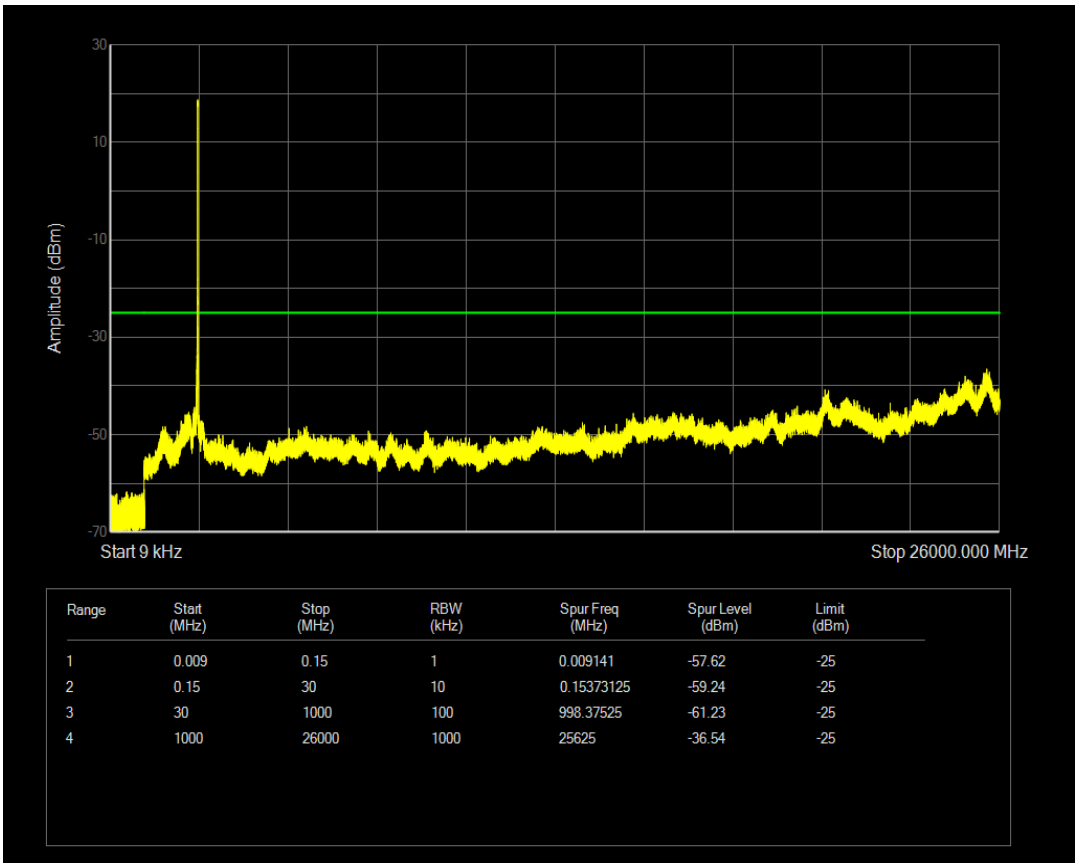
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009426525	-58.16	-25
2	0.15	30	10	0.152985	-60.75	-25
3	30	1000	100	831.63225	-61.88	-25
4	1000	26000	1000	25633.125	-36.5	-25

Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



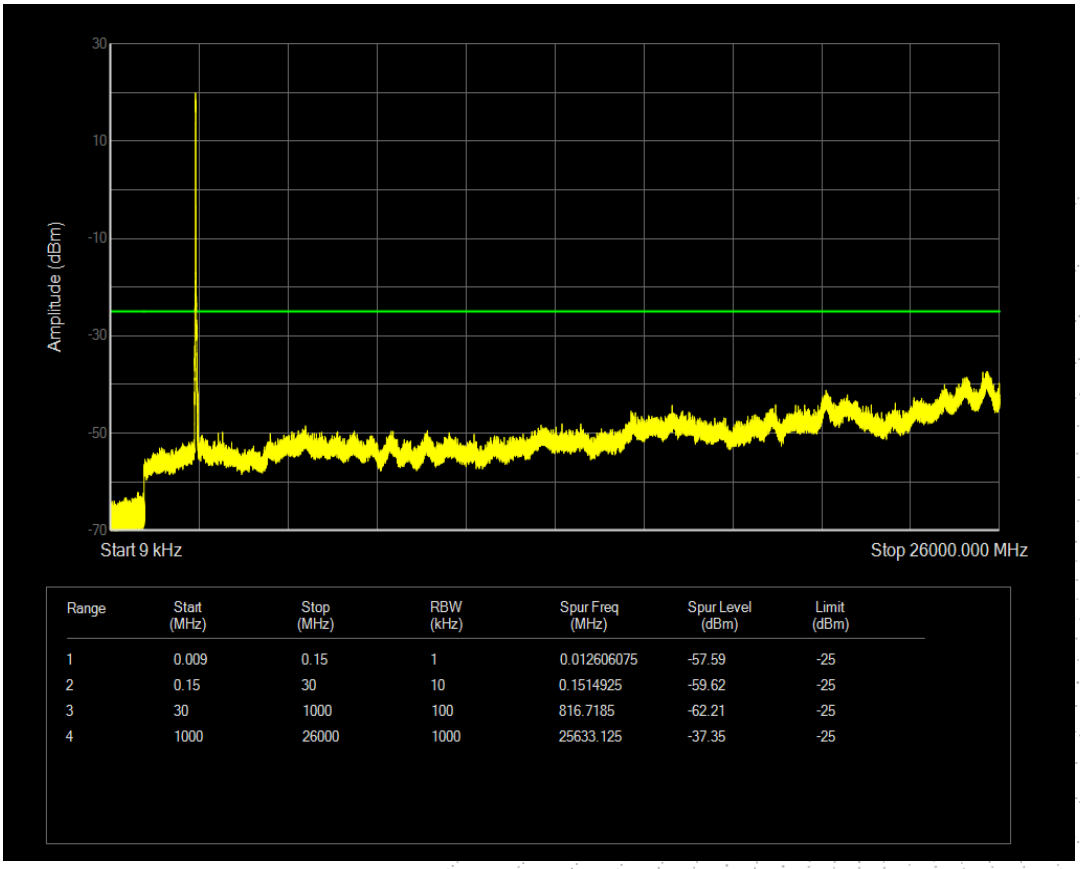
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00926085	-57.28	-25
2	0.15	30	10	0.1544775	-59.53	-25
3	30	1000	100	758.63975	-62.07	-25
4	1000	26000	1000	25575	-37.48	-25

Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



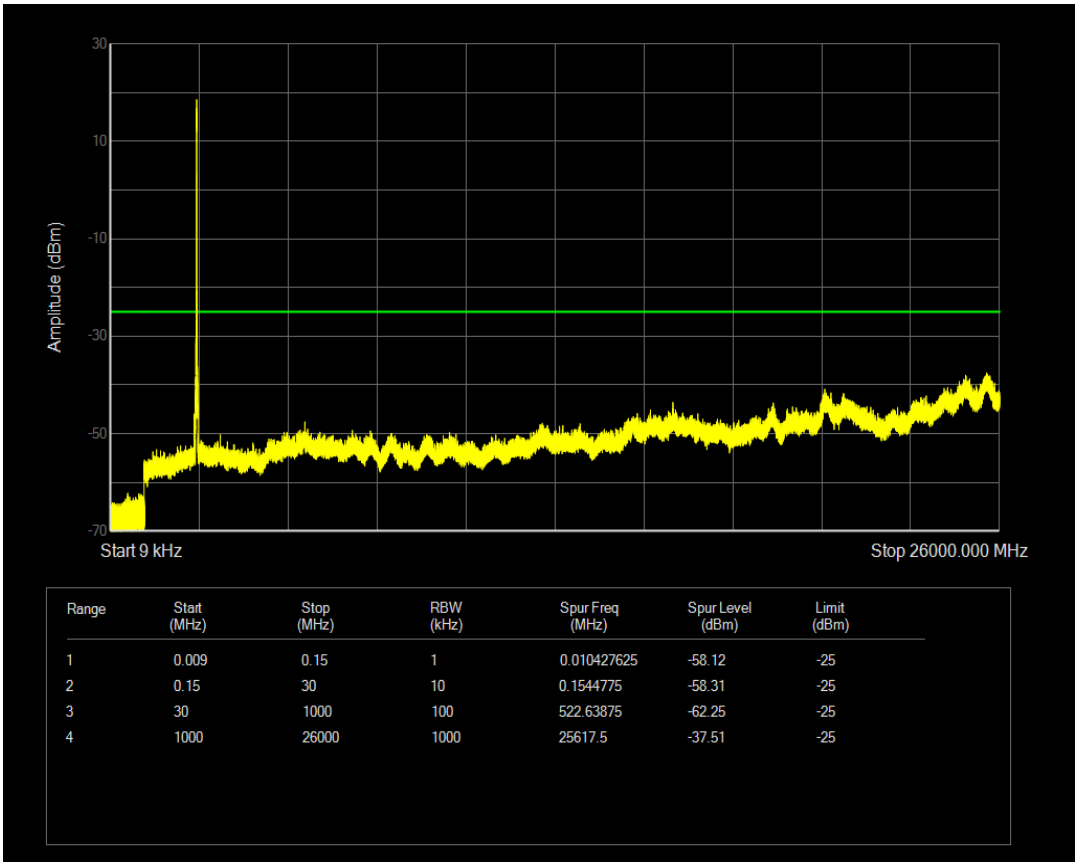
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009141	-57.62	-25
2	0.15	30	10	0.15373125	-59.24	-25
3	30	1000	100	998.37525	-61.23	-25
4	1000	26000	1000	25625	-36.54	-25

Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



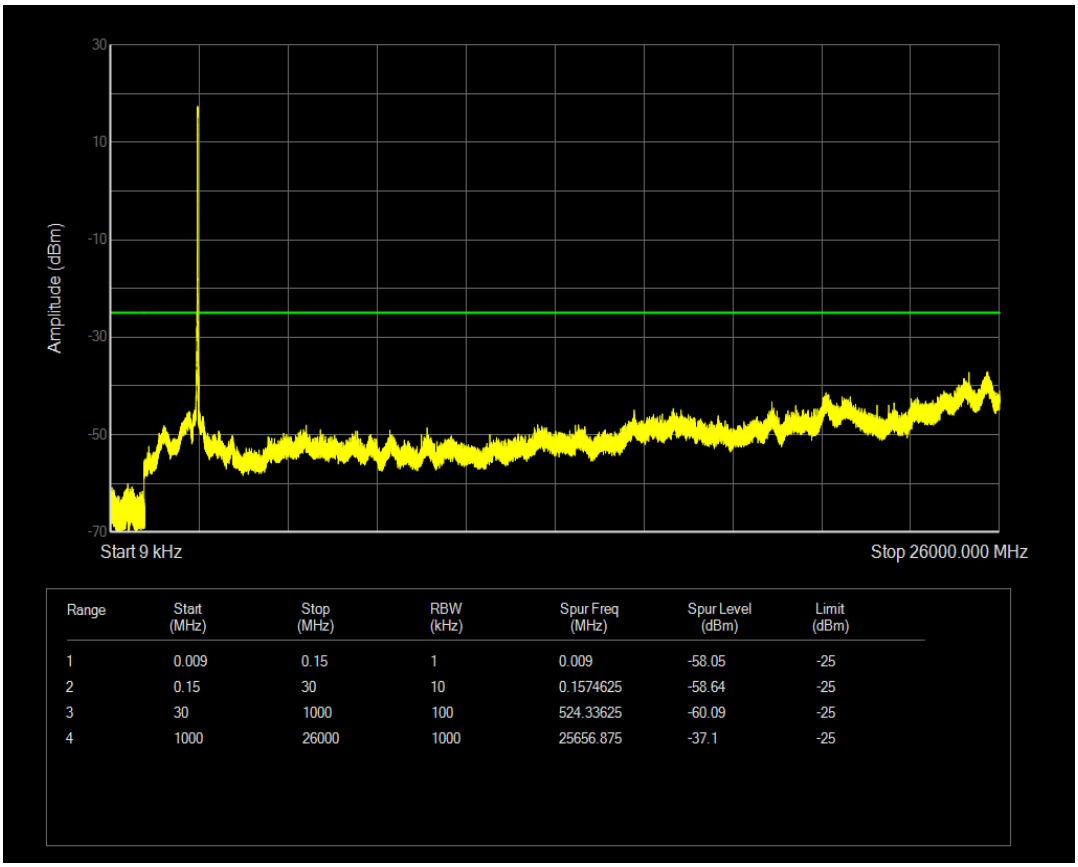
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012606075	-57.59	-25
2	0.15	30	10	0.1514925	-59.62	-25
3	30	1000	100	816.7185	-62.21	-25
4	1000	26000	1000	25633.125	-37.35	-25

Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



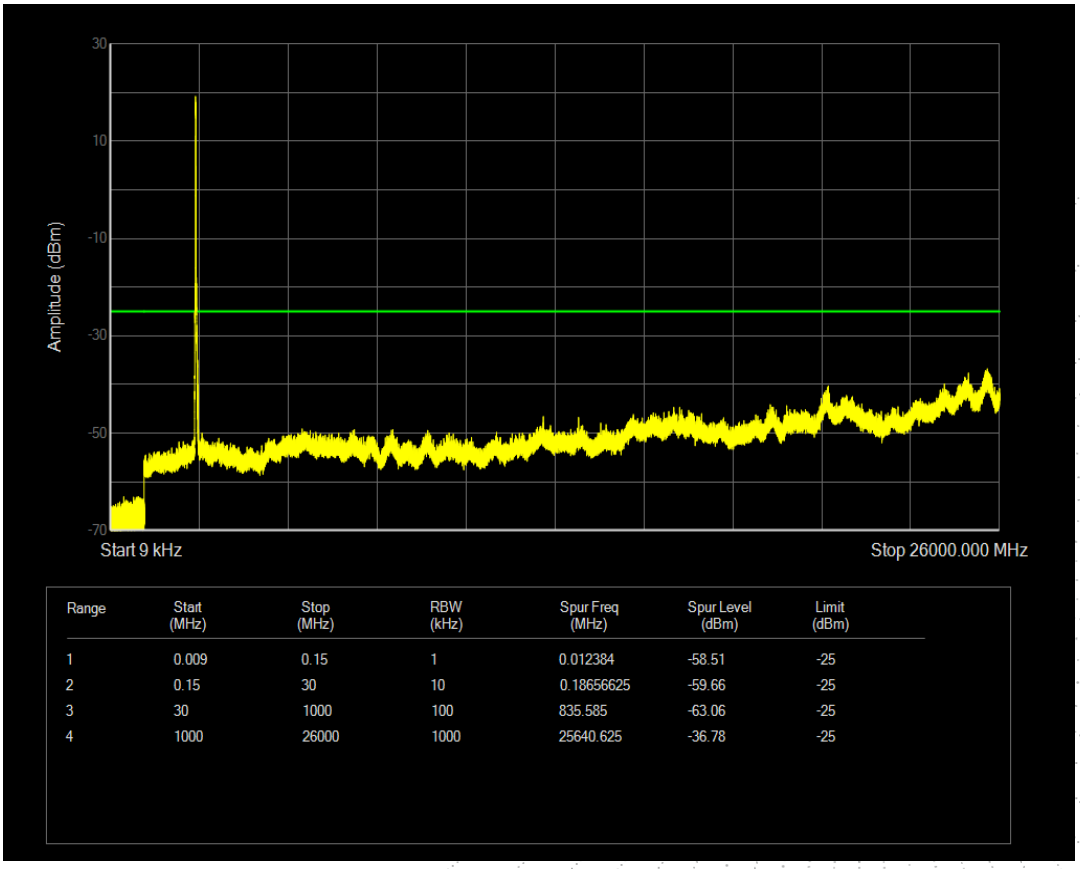
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010427625	-58.12	-25
2	0.15	30	10	0.1544775	-58.31	-25
3	30	1000	100	522.63875	-62.25	-25
4	1000	26000	1000	25617.5	-37.51	-25

Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



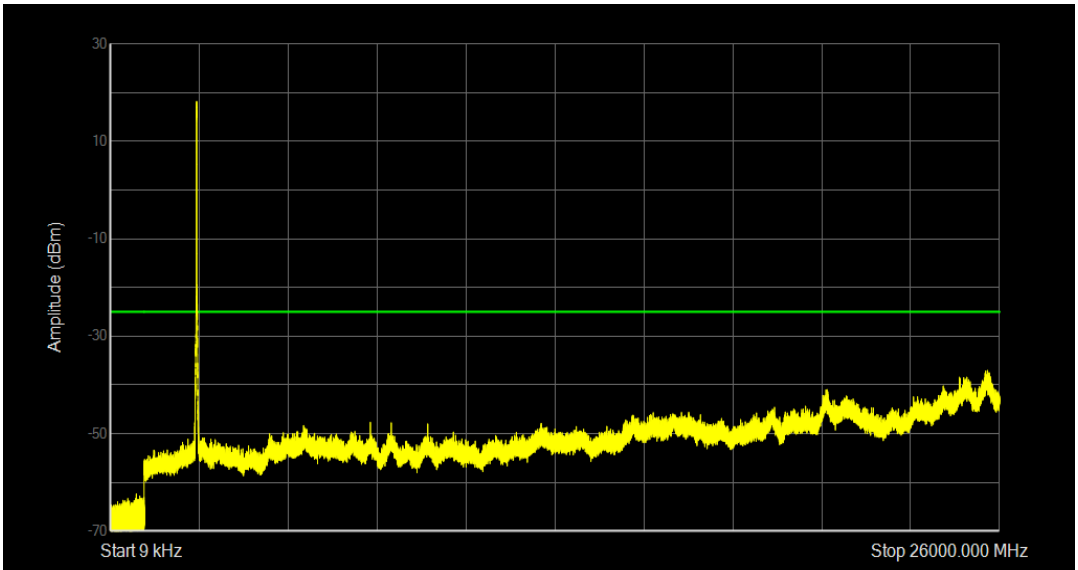
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-58.05	-25
2	0.15	30	10	0.1574625	-58.64	-25
3	30	1000	100	524.33625	-60.09	-25
4	1000	26000	1000	25656.875	-37.1	-25

Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



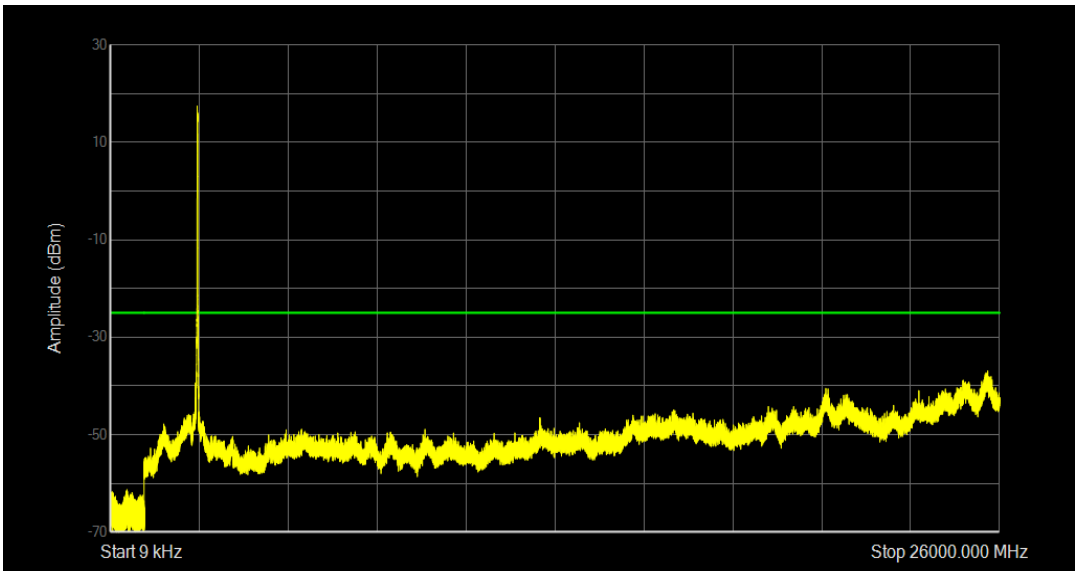
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012384	-58.51	-25
2	0.15	30	10	0.18656625	-59.66	-25
3	30	1000	100	835.585	-63.06	-25
4	1000	26000	1000	25640.625	-36.78	-25

Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011421675	-59.3	-25
2	0.15	30	10	0.15074625	-58.67	-25
3	30	1000	100	775.154	-62.36	-25
4	1000	26000	1000	25645	-37.02	-25

Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009348975	-58.89	-25
2	0.15	30	10	0.1604475	-60.37	-25
3	30	1000	100	499.4315	-61.33	-25
4	1000	26000	1000	25652.5	-36.93	-25