

Appendix for Band 7

Report No.: BCTC2312704909-5E

Applicant: Shenzhen Swage Electronics Co.,Ltd.

Product Name: Smart watch

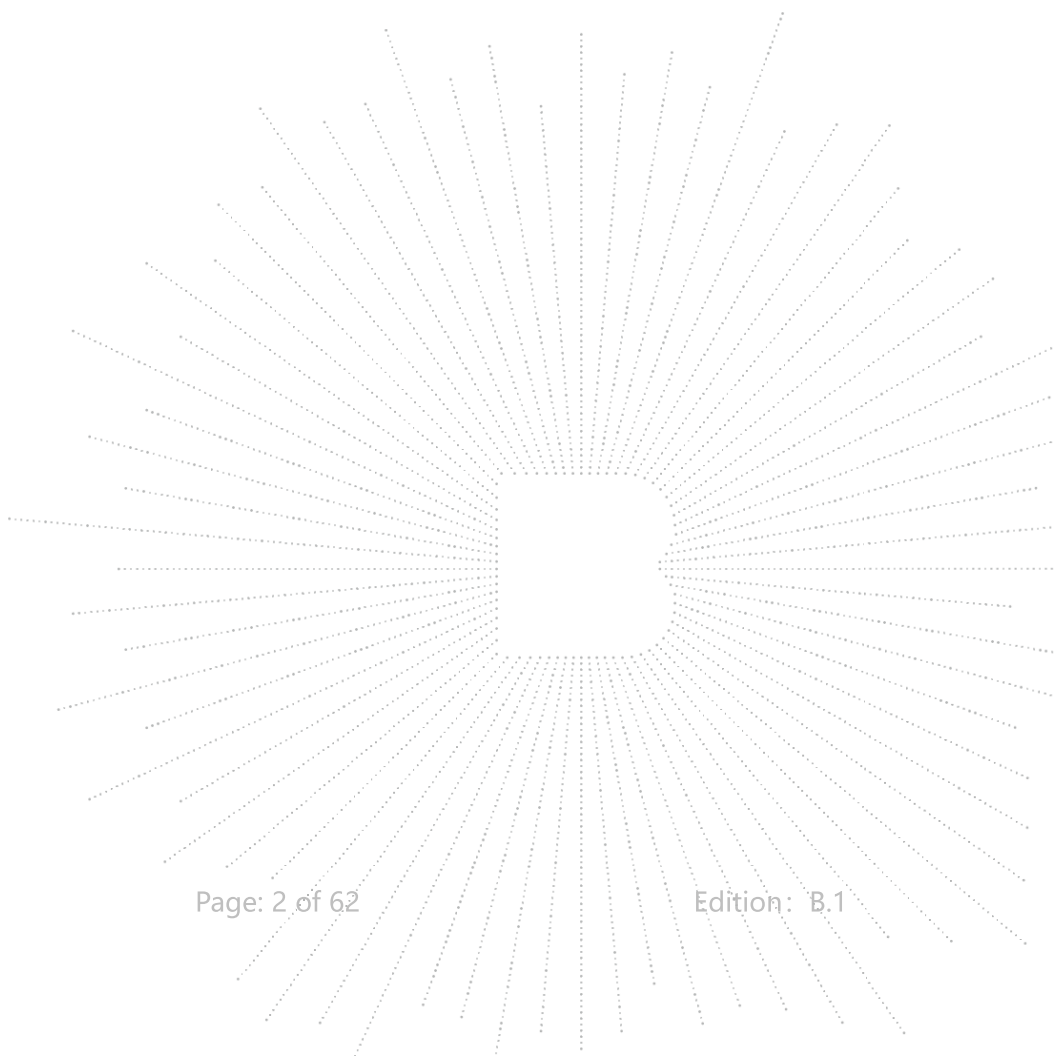
Test Model: D10

Tested Date: 2023-12-04 to 2023-12-18

Shenzhen BCTC Testing Co., Ltd.

Contents

Appendix 1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement	3
Appendix 2. Frequency stability.....	8
Appendix 3. Peak-to-Average Ratio	15
Appendix 4. Occupied bandwidth	28
Appendix 5. Band edge	41
Appendix 6. Out-of-band emissions	50



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

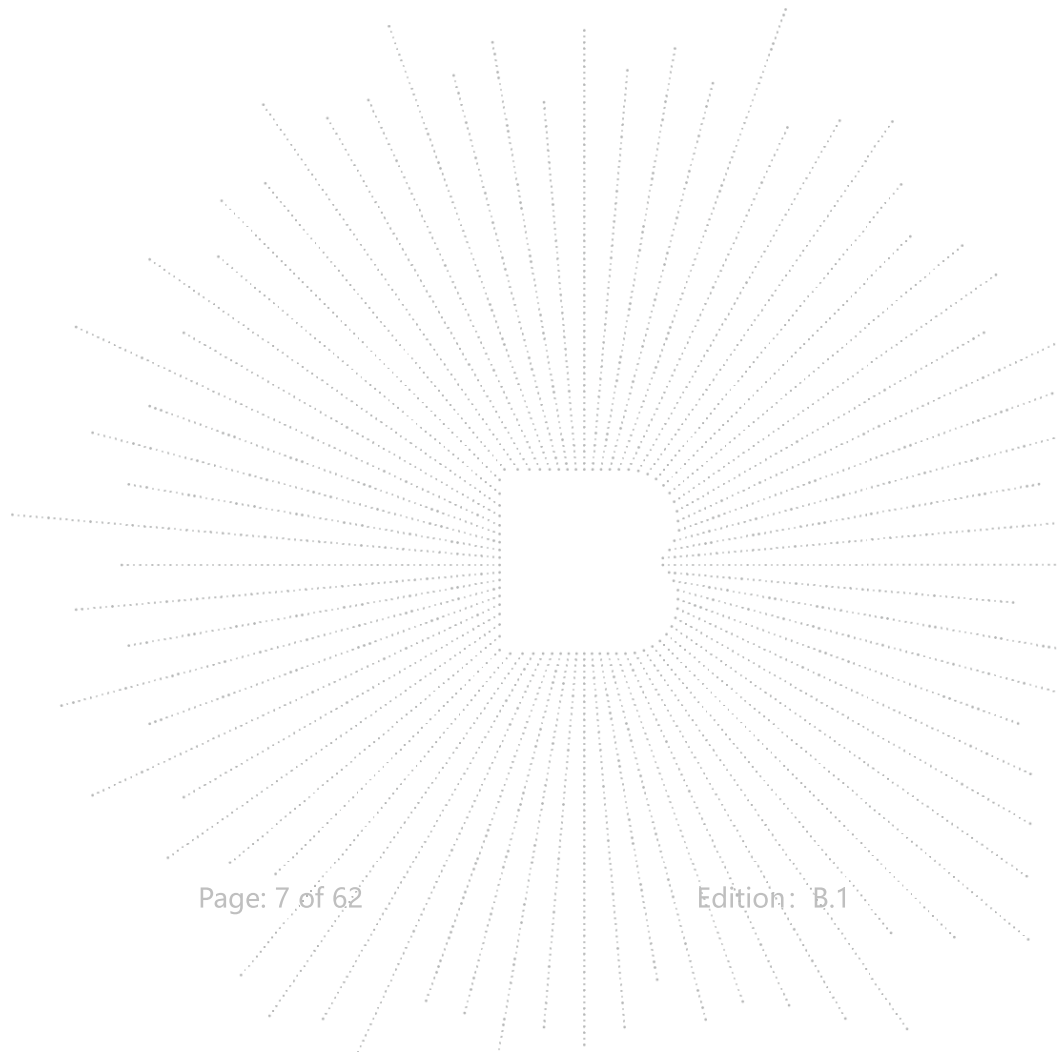
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	Verdict
Band7	5	20775	1	#0	QPSK	22.82	2.16	24.98	PASS
Band7	5	20775	1	#Mid	QPSK	22.90	2.16	25.06	PASS
Band7	5	20775	1	#Max	QPSK	22.89	2.16	25.05	PASS
Band7	5	20775	12	#0	QPSK	21.85	2.16	24.01	PASS
Band7	5	20775	12	#Mid	QPSK	21.75	2.16	23.91	PASS
Band7	5	20775	12	#Max	QPSK	21.83	2.16	23.99	PASS
Band7	5	20775	25	#0	QPSK	21.75	2.16	23.91	PASS
Band7	5	20775	1	#0	16QAM	21.52	2.16	23.68	PASS
Band7	5	20775	1	#Mid	16QAM	21.56	2.16	23.72	PASS
Band7	5	20775	1	#Max	16QAM	21.59	2.16	23.75	PASS
Band7	5	20775	12	#0	16QAM	20.42	2.16	22.58	PASS
Band7	5	20775	12	#Mid	16QAM	20.69	2.16	22.85	PASS
Band7	5	20775	12	#Max	16QAM	20.69	2.16	22.85	PASS
Band7	5	20775	25	#0	16QAM	20.82	2.16	22.98	PASS
Band7	5	21100	1	#0	QPSK	22.56	2.16	24.72	PASS
Band7	5	21100	1	#Mid	QPSK	22.58	2.16	24.74	PASS
Band7	5	21100	1	#Max	QPSK	22.59	2.16	24.75	PASS
Band7	5	21100	12	#0	QPSK	21.80	2.16	23.96	PASS
Band7	5	21100	12	#Mid	QPSK	21.65	2.16	23.81	PASS
Band7	5	21100	12	#Max	QPSK	21.72	2.16	23.88	PASS
Band7	5	21100	25	#0	QPSK	21.77	2.16	23.93	PASS
Band7	5	21100	1	#0	16QAM	22.01	2.16	24.17	PASS
Band7	5	21100	1	#Mid	16QAM	21.97	2.16	24.13	PASS
Band7	5	21100	1	#Max	16QAM	22.00	2.16	24.16	PASS
Band7	5	21100	12	#0	16QAM	20.74	2.16	22.90	PASS
Band7	5	21100	12	#Mid	16QAM	20.87	2.16	23.03	PASS
Band7	5	21100	12	#Max	16QAM	20.79	2.16	22.95	PASS
Band7	5	21100	25	#0	16QAM	20.78	2.16	22.94	PASS
Band7	5	21425	1	#0	QPSK	22.72	2.16	24.88	PASS
Band7	5	21425	1	#Mid	QPSK	22.54	2.16	24.70	PASS
Band7	5	21425	1	#Max	QPSK	22.67	2.16	24.83	PASS
Band7	5	21425	12	#0	QPSK	21.73	2.16	23.89	PASS
Band7	5	21425	12	#Mid	QPSK	21.67	2.16	23.83	PASS
Band7	5	21425	12	#Max	QPSK	21.69	2.16	23.85	PASS
Band7	5	21425	25	#0	QPSK	21.66	2.16	23.82	PASS
Band7	5	21425	1	#0	16QAM	21.76	2.16	23.92	PASS
Band7	5	21425	1	#Mid	16QAM	21.72	2.16	23.88	PASS
Band7	5	21425	1	#Max	16QAM	21.71	2.16	23.87	PASS

Band7	5	21425	12	#0	16QAM	20.50	2.16	22.66	PASS
Band7	5	21425	12	#Mid	16QAM	20.65	2.16	22.81	PASS
Band7	5	21425	12	#Max	16QAM	20.57	2.16	22.73	PASS
Band7	5	21425	25	#0	16QAM	20.93	2.16	23.09	PASS
Band7	10	20800	1	#0	QPSK	22.70	2.16	24.86	PASS
Band7	10	20800	1	#Mid	QPSK	22.85	2.16	25.01	PASS
Band7	10	20800	1	#Max	QPSK	22.90	2.16	25.06	PASS
Band7	10	20800	25	#0	QPSK	21.88	2.16	24.04	PASS
Band7	10	20800	25	#Mid	QPSK	21.87	2.16	24.03	PASS
Band7	10	20800	25	#Max	QPSK	21.79	2.16	23.95	PASS
Band7	10	20800	50	#0	QPSK	21.91	2.16	24.07	PASS
Band7	10	20800	1	#0	16QAM	22.94	2.16	25.10	PASS
Band7	10	20800	1	#Mid	16QAM	23.03	2.16	25.19	PASS
Band7	10	20800	1	#Max	16QAM	23.09	2.16	25.25	PASS
Band7	10	20800	25	#0	16QAM	20.72	2.16	22.88	PASS
Band7	10	20800	25	#Mid	16QAM	20.68	2.16	22.84	PASS
Band7	10	20800	25	#Max	16QAM	20.74	2.16	22.90	PASS
Band7	10	20800	50	#0	16QAM	20.79	2.16	22.95	PASS
Band7	10	21100	1	#0	QPSK	22.65	2.16	24.81	PASS
Band7	10	21100	1	#Mid	QPSK	22.67	2.16	24.83	PASS
Band7	10	21100	1	#Max	QPSK	22.69	2.16	24.85	PASS
Band7	10	21100	25	#0	QPSK	21.71	2.16	23.87	PASS
Band7	10	21100	25	#Mid	QPSK	21.73	2.16	23.89	PASS
Band7	10	21100	25	#Max	QPSK	21.80	2.16	23.96	PASS
Band7	10	21100	50	#0	QPSK	21.75	2.16	23.91	PASS
Band7	10	21100	1	#0	16QAM	21.81	2.16	23.97	PASS
Band7	10	21100	1	#Mid	16QAM	21.90	2.16	24.06	PASS
Band7	10	21100	1	#Max	16QAM	21.94	2.16	24.10	PASS
Band7	10	21100	25	#0	16QAM	20.75	2.16	22.91	PASS
Band7	10	21100	25	#Mid	16QAM	20.78	2.16	22.94	PASS
Band7	10	21100	25	#Max	16QAM	20.86	2.16	23.02	PASS
Band7	10	21100	50	#0	16QAM	20.84	2.16	23.00	PASS
Band7	10	21400	1	#0	QPSK	22.96	2.16	25.12	PASS
Band7	10	21400	1	#Mid	QPSK	22.90	2.16	25.06	PASS
Band7	10	21400	1	#Max	QPSK	22.80	2.16	24.96	PASS
Band7	10	21400	25	#0	QPSK	21.69	2.16	23.85	PASS
Band7	10	21400	25	#Mid	QPSK	21.64	2.16	23.80	PASS
Band7	10	21400	25	#Max	QPSK	21.67	2.16	23.83	PASS
Band7	10	21400	50	#0	QPSK	21.67	2.16	23.83	PASS
Band7	10	21400	1	#0	16QAM	21.86	2.16	24.02	PASS
Band7	10	21400	1	#Mid	16QAM	21.76	2.16	23.92	PASS
Band7	10	21400	1	#Max	16QAM	21.70	2.16	23.86	PASS
Band7	10	21400	25	#0	16QAM	20.80	2.16	22.96	PASS

Band7	10	21400	25	#Mid	16QAM	20.79	2.16	22.95	PASS
Band7	10	21400	25	#Max	16QAM	20.91	2.16	23.07	PASS
Band7	10	21400	50	#0	16QAM	20.83	2.16	22.99	PASS
Band7	15	20825	1	#0	QPSK	22.73	2.16	24.89	PASS
Band7	15	20825	1	#Mid	QPSK	22.89	2.16	25.05	PASS
Band7	15	20825	1	#Max	QPSK	22.85	2.16	25.01	PASS
Band7	15	20825	36	#0	QPSK	21.74	2.16	23.90	PASS
Band7	15	20825	36	#Mid	QPSK	21.88	2.16	24.04	PASS
Band7	15	20825	36	#Max	QPSK	21.78	2.16	23.94	PASS
Band7	15	20825	75	#0	QPSK	21.77	2.16	23.93	PASS
Band7	15	20825	1	#0	16QAM	22.93	2.16	25.09	PASS
Band7	15	20825	1	#Mid	16QAM	23.12	2.16	25.28	PASS
Band7	15	20825	1	#Max	16QAM	23.14	2.16	25.30	PASS
Band7	15	20825	36	#0	16QAM	20.94	2.16	23.10	PASS
Band7	15	20825	36	#Mid	16QAM	21.00	2.16	23.16	PASS
Band7	15	20825	36	#Max	16QAM	20.95	2.16	23.11	PASS
Band7	15	20825	75	#0	16QAM	21.00	2.16	23.16	PASS
Band7	15	21100	1	#0	QPSK	22.70	2.16	24.86	PASS
Band7	15	21100	1	#Mid	QPSK	22.71	2.16	24.87	PASS
Band7	15	21100	1	#Max	QPSK	22.78	2.16	24.94	PASS
Band7	15	21100	36	#0	QPSK	21.63	2.16	23.79	PASS
Band7	15	21100	36	#Mid	QPSK	21.72	2.16	23.88	PASS
Band7	15	21100	36	#Max	QPSK	21.80	2.16	23.96	PASS
Band7	15	21100	75	#0	QPSK	21.72	2.16	23.88	PASS
Band7	15	21100	1	#0	16QAM	21.69	2.16	23.85	PASS
Band7	15	21100	1	#Mid	16QAM	21.83	2.16	23.99	PASS
Band7	15	21100	1	#Max	16QAM	21.89	2.16	24.05	PASS
Band7	15	21100	36	#0	16QAM	20.88	2.16	23.04	PASS
Band7	15	21100	36	#Mid	16QAM	20.88	2.16	23.04	PASS
Band7	15	21100	36	#Max	16QAM	20.96	2.16	23.12	PASS
Band7	15	21100	75	#0	16QAM	20.89	2.16	23.05	PASS
Band7	15	21375	1	#0	QPSK	22.96	2.16	25.12	PASS
Band7	15	21375	1	#Mid	QPSK	22.87	2.16	25.03	PASS
Band7	15	21375	1	#Max	QPSK	22.83	2.16	24.99	PASS
Band7	15	21375	36	#0	QPSK	21.67	2.16	23.83	PASS
Band7	15	21375	36	#Mid	QPSK	21.79	2.16	23.95	PASS
Band7	15	21375	36	#Max	QPSK	21.66	2.16	23.82	PASS
Band7	15	21375	75	#0	QPSK	21.67	2.16	23.83	PASS
Band7	15	21375	1	#0	16QAM	22.58	2.16	24.74	PASS
Band7	15	21375	1	#Mid	16QAM	22.45	2.16	24.61	PASS
Band7	15	21375	1	#Max	16QAM	22.44	2.16	24.60	PASS
Band7	15	21375	36	#0	16QAM	20.76	2.16	22.92	PASS
Band7	15	21375	36	#Mid	16QAM	20.70	2.16	22.86	PASS

Band7	15	21375	36	#Max	16QAM	20.77	2.16	22.93	PASS
Band7	15	21375	75	#0	16QAM	20.83	2.16	22.99	PASS
Band7	20	20850	1	#0	QPSK	22.90	2.16	25.06	PASS
Band7	20	20850	1	#Mid	QPSK	23.01	2.16	25.17	PASS
Band7	20	20850	1	#Max	QPSK	22.93	2.16	25.09	PASS
Band7	20	20850	50	#0	QPSK	21.77	2.16	23.93	PASS
Band7	20	20850	50	#Mid	QPSK	21.90	2.16	24.06	PASS
Band7	20	20850	50	#Max	QPSK	21.84	2.16	24.00	PASS
Band7	20	20850	100	#0	QPSK	21.81	2.16	23.97	PASS
Band7	20	20850	1	#0	16QAM	21.58	2.16	23.74	PASS
Band7	20	20850	1	#Mid	16QAM	21.65	2.16	23.81	PASS
Band7	20	20850	1	#Max	16QAM	21.55	2.16	23.71	PASS
Band7	20	20850	50	#0	16QAM	20.99	2.16	23.15	PASS
Band7	20	20850	50	#Mid	16QAM	21.02	2.16	23.18	PASS
Band7	20	20850	50	#Max	16QAM	20.97	2.16	23.13	PASS
Band7	20	20850	100	#0	16QAM	20.87	2.16	23.03	PASS
Band7	20	21100	1	#0	QPSK	22.83	2.16	24.99	PASS
Band7	20	21100	1	#Mid	QPSK	22.91	2.16	25.07	PASS
Band7	20	21100	1	#Max	QPSK	23.03	2.16	25.19	PASS
Band7	20	21100	50	#0	QPSK	21.71	2.16	23.87	PASS
Band7	20	21100	50	#Mid	QPSK	21.84	2.16	24.00	PASS
Band7	20	21100	50	#Max	QPSK	21.72	2.16	23.88	PASS
Band7	20	21100	100	#0	QPSK	21.77	2.16	23.93	PASS
Band7	20	21100	1	#0	16QAM	22.07	2.16	24.23	PASS
Band7	20	21100	1	#Mid	16QAM	22.13	2.16	24.29	PASS
Band7	20	21100	1	#Max	16QAM	22.12	2.16	24.28	PASS
Band7	20	21100	50	#0	16QAM	20.83	2.16	22.99	PASS
Band7	20	21100	50	#Mid	16QAM	20.76	2.16	22.92	PASS
Band7	20	21100	50	#Max	16QAM	20.92	2.16	23.08	PASS
Band7	20	21100	100	#0	16QAM	20.72	2.16	22.88	PASS
Band7	20	21350	1	#0	QPSK	23.08	2.16	25.24	PASS
Band7	20	21350	1	#Mid	QPSK	23.04	2.16	25.20	PASS
Band7	20	21350	1	#Max	QPSK	22.83	2.16	24.99	PASS
Band7	20	21350	50	#0	QPSK	21.82	2.16	23.98	PASS
Band7	20	21350	50	#Mid	QPSK	21.69	2.16	23.85	PASS
Band7	20	21350	50	#Max	QPSK	21.78	2.16	23.94	PASS
Band7	20	21350	100	#0	QPSK	21.79	2.16	23.95	PASS
Band7	20	21350	1	#0	16QAM	21.89	2.16	24.05	PASS
Band7	20	21350	1	#Mid	16QAM	21.73	2.16	23.89	PASS
Band7	20	21350	1	#Max	16QAM	21.76	2.16	23.92	PASS
Band7	20	21350	50	#0	16QAM	20.85	2.16	23.01	PASS
Band7	20	21350	50	#Mid	16QAM	20.80	2.16	22.96	PASS
Band7	20	21350	50	#Max	16QAM	20.82	2.16	22.98	PASS

Band7	20	21350	100	#0	16QAM	20.81	2.16	22.97	PASS
-------	----	-------	-----	----	-------	-------	------	-------	------



Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Verdict
Band7	5	20775	25	#0	QPSK	LV	NT	-29.23	-0.012	PASS
Band7	5	20775	25	#0	QPSK	NV	NT	-35.02	-0.014	PASS
Band7	5	20775	25	#0	QPSK	HV	NT	-45.30	-0.018	PASS
Band7	5	20775	25	#0	16QAM	LV	NT	-38.92	-0.016	PASS
Band7	5	20775	25	#0	16QAM	NV	NT	-11.92	-0.005	PASS
Band7	5	20775	25	#0	16QAM	HV	NT	-15.44	-0.006	PASS
Band7	5	21100	25	#0	QPSK	LV	NT	-31.40	-0.012	PASS
Band7	5	21100	25	#0	QPSK	NV	NT	-35.95	-0.014	PASS
Band7	5	21100	25	#0	QPSK	HV	NT	-37.08	-0.015	PASS
Band7	5	21100	25	#0	16QAM	LV	NT	-41.94	-0.017	PASS
Band7	5	21100	25	#0	16QAM	NV	NT	-41.57	-0.016	PASS
Band7	5	21100	25	#0	16QAM	HV	NT	-38.82	-0.015	PASS
Band7	5	21425	25	#0	QPSK	LV	NT	-36.11	-0.014	PASS
Band7	5	21425	25	#0	QPSK	NV	NT	-38.91	-0.015	PASS
Band7	5	21425	25	#0	QPSK	HV	NT	-45.03	-0.018	PASS
Band7	5	21425	25	#0	16QAM	LV	NT	-38.18	-0.015	PASS
Band7	5	21425	25	#0	16QAM	NV	NT	-37.95	-0.015	PASS
Band7	5	21425	25	#0	16QAM	HV	NT	-32.32	-0.013	PASS
Band7	10	20800	50	#0	QPSK	LV	NT	-40.73	-0.016	PASS
Band7	10	20800	50	#0	QPSK	NV	NT	-14.29	-0.006	PASS
Band7	10	20800	50	#0	QPSK	HV	NT	-22.03	-0.009	PASS
Band7	10	20800	50	#0	16QAM	LV	NT	-28.62	-0.011	PASS
Band7	10	20800	50	#0	16QAM	NV	NT	-26.61	-0.011	PASS
Band7	10	20800	50	#0	16QAM	HV	NT	-22.09	-0.009	PASS
Band7	10	21100	50	#0	QPSK	LV	NT	-10.51	-0.004	PASS
Band7	10	21100	50	#0	QPSK	NV	NT	-13.63	-0.005	PASS
Band7	10	21100	50	#0	QPSK	HV	NT	-8.73	-0.003	PASS
Band7	10	21100	50	#0	16QAM	LV	NT	-9.34	-0.004	PASS
Band7	10	21100	50	#0	16QAM	NV	NT	-4.21	-0.002	PASS
Band7	10	21100	50	#0	16QAM	HV	NT	-4.28	-0.002	PASS
Band7	10	21400	50	#0	QPSK	LV	NT	-29.60	-0.012	PASS
Band7	10	21400	50	#0	QPSK	NV	NT	-30.16	-0.012	PASS
Band7	10	21400	50	#0	QPSK	HV	NT	-33.60	-0.013	PASS
Band7	10	21400	50	#0	16QAM	LV	NT	-29.77	-0.012	PASS
Band7	10	21400	50	#0	16QAM	NV	NT	-22.49	-0.009	PASS
Band7	10	21400	50	#0	16QAM	HV	NT	-18.31	-0.007	PASS
Band7	15	20825	75	#0	QPSK	LV	NT	-22.42	-0.009	PASS
Band7	15	20825	75	#0	QPSK	NV	NT	-36.16	-0.014	PASS

Band7	15	20825	75	#0	QPSK	HV	NT	-36.03	-0.014	PASS
Band7	15	20825	75	#0	16QAM	LV	NT	-31.64	-0.013	PASS
Band7	15	20825	75	#0	16QAM	NV	NT	-22.37	-0.009	PASS
Band7	15	20825	75	#0	16QAM	HV	NT	-21.20	-0.008	PASS
Band7	15	21100	75	#0	QPSK	LV	NT	-28.52	-0.011	PASS
Band7	15	21100	75	#0	QPSK	NV	NT	-23.86	-0.009	PASS
Band7	15	21100	75	#0	QPSK	HV	NT	-21.76	-0.009	PASS
Band7	15	21100	75	#0	16QAM	LV	NT	-19.31	-0.008	PASS
Band7	15	21100	75	#0	16QAM	NV	NT	-16.22	-0.006	PASS
Band7	15	21100	75	#0	16QAM	HV	NT	-15.32	-0.006	PASS
Band7	15	21375	75	#0	QPSK	LV	NT	-13.75	-0.005	PASS
Band7	15	21375	75	#0	QPSK	NV	NT	-14.05	-0.005	PASS
Band7	15	21375	75	#0	QPSK	HV	NT	-6.67	-0.003	PASS
Band7	15	21375	75	#0	16QAM	LV	NT	-0.54	0.000	PASS
Band7	15	21375	75	#0	16QAM	NV	NT	10.99	0.004	PASS
Band7	15	21375	75	#0	16QAM	HV	NT	17.28	0.007	PASS
Band7	20	20850	100	#0	QPSK	LV	NT	-2.69	-0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	NT	-15.58	-0.006	PASS
Band7	20	20850	100	#0	QPSK	HV	NT	-23.76	-0.009	PASS
Band7	20	20850	100	#0	16QAM	LV	NT	-19.83	-0.008	PASS
Band7	20	20850	100	#0	16QAM	NV	NT	-14.15	-0.006	PASS
Band7	20	20850	100	#0	16QAM	HV	NT	-11.89	-0.005	PASS
Band7	20	21100	100	#0	QPSK	LV	NT	-14.58	-0.006	PASS
Band7	20	21100	100	#0	QPSK	NV	NT	-15.28	-0.006	PASS
Band7	20	21100	100	#0	QPSK	HV	NT	-12.62	-0.005	PASS
Band7	20	21100	100	#0	16QAM	LV	NT	-6.38	-0.003	PASS
Band7	20	21100	100	#0	16QAM	NV	NT	-5.78	-0.002	PASS
Band7	20	21100	100	#0	16QAM	HV	NT	-0.41	0.000	PASS
Band7	20	21350	100	#0	QPSK	LV	NT	-26.48	-0.010	PASS
Band7	20	21350	100	#0	QPSK	NV	NT	-27.77	-0.011	PASS
Band7	20	21350	100	#0	QPSK	HV	NT	-16.19	-0.006	PASS
Band7	20	21350	100	#0	16QAM	LV	NT	-5.56	-0.002	PASS
Band7	20	21350	100	#0	16QAM	NV	NT	9.20	0.004	PASS
Band7	20	21350	100	#0	16QAM	HV	NT	21.01	0.008	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Verdict
Band7	5	20775	25	#0	QPSK	NV	-30	-5.65	-0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	-20	3.81	0.002	PASS
Band7	5	20775	25	#0	QPSK	NV	-10	13.66	0.005	PASS
Band7	5	20775	25	#0	QPSK	NV	0	30.54	0.012	PASS
Band7	5	20775	25	#0	QPSK	NV	10	-0.92	0.000	PASS
Band7	5	20775	25	#0	QPSK	NV	20	6.15	0.002	PASS

Band7	5	20775	25	#0	QPSK	NV	30	23.76	0.009	PASS
Band7	5	20775	25	#0	QPSK	NV	40	24.83	0.010	PASS
Band7	5	20775	25	#0	QPSK	NV	50	32.62	0.013	PASS
Band7	5	20775	25	#0	16QAM	NV	-30	27.32	0.011	PASS
Band7	5	20775	25	#0	16QAM	NV	-20	2.09	0.001	PASS
Band7	5	20775	25	#0	16QAM	NV	-10	29.94	0.012	PASS
Band7	5	20775	25	#0	16QAM	NV	0	43.24	0.017	PASS
Band7	5	20775	25	#0	16QAM	NV	10	31.30	0.013	PASS
Band7	5	20775	25	#0	16QAM	NV	20	29.54	0.012	PASS
Band7	5	20775	25	#0	16QAM	NV	30	28.92	0.012	PASS
Band7	5	20775	25	#0	16QAM	NV	40	45.33	0.018	PASS
Band7	5	20775	25	#0	16QAM	NV	50	4.35	0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	-30	12.22	0.005	PASS
Band7	5	21100	25	#0	QPSK	NV	-20	28.94	0.011	PASS
Band7	5	21100	25	#0	QPSK	NV	-10	48.09	0.019	PASS
Band7	5	21100	25	#0	QPSK	NV	0	3.88	0.002	PASS
Band7	5	21100	25	#0	QPSK	NV	10	20.99	0.008	PASS
Band7	5	21100	25	#0	QPSK	NV	20	38.12	0.015	PASS
Band7	5	21100	25	#0	QPSK	NV	30	12.40	0.005	PASS
Band7	5	21100	25	#0	QPSK	NV	40	30.13	0.012	PASS
Band7	5	21100	25	#0	QPSK	NV	50	30.01	0.012	PASS
Band7	5	21100	25	#0	16QAM	NV	-30	6.72	0.003	PASS
Band7	5	21100	25	#0	16QAM	NV	-20	19.04	0.008	PASS
Band7	5	21100	25	#0	16QAM	NV	-10	31.54	0.012	PASS
Band7	5	21100	25	#0	16QAM	NV	0	34.32	0.014	PASS
Band7	5	21100	25	#0	16QAM	NV	10	-0.67	0.000	PASS
Band7	5	21100	25	#0	16QAM	NV	20	5.44	0.002	PASS
Band7	5	21100	25	#0	16QAM	NV	30	11.43	0.005	PASS
Band7	5	21100	25	#0	16QAM	NV	40	16.75	0.007	PASS
Band7	5	21100	25	#0	16QAM	NV	50	25.33	0.010	PASS
Band7	5	21425	25	#0	QPSK	NV	-30	1.90	0.001	PASS
Band7	5	21425	25	#0	QPSK	NV	-20	7.01	0.003	PASS
Band7	5	21425	25	#0	QPSK	NV	-10	13.05	0.005	PASS
Band7	5	21425	25	#0	QPSK	NV	0	24.93	0.010	PASS
Band7	5	21425	25	#0	QPSK	NV	10	35.33	0.014	PASS
Band7	5	21425	25	#0	QPSK	NV	20	50.83	0.020	PASS
Band7	5	21425	25	#0	QPSK	NV	30	5.24	0.002	PASS
Band7	5	21425	25	#0	QPSK	NV	40	19.91	0.008	PASS
Band7	5	21425	25	#0	QPSK	NV	50	37.45	0.015	PASS
Band7	5	21425	25	#0	16QAM	NV	-30	21.27	0.008	PASS
Band7	5	21425	25	#0	16QAM	NV	-20	36.76	0.014	PASS
Band7	5	21425	25	#0	16QAM	NV	-10	47.34	0.018	PASS
Band7	5	21425	25	#0	16QAM	NV	0	-1.06	0.000	PASS

Band7	5	21425	25	#0	16QAM	NV	10	13.98	0.005	PASS
Band7	5	21425	25	#0	16QAM	NV	20	27.91	0.011	PASS
Band7	5	21425	25	#0	16QAM	NV	30	41.10	0.016	PASS
Band7	5	21425	25	#0	16QAM	NV	40	47.69	0.019	PASS
Band7	5	21425	25	#0	16QAM	NV	50	23.03	0.009	PASS
Band7	10	20800	50	#0	QPSK	NV	-30	-9.41	-0.004	PASS
Band7	10	20800	50	#0	QPSK	NV	-20	-20.71	-0.008	PASS
Band7	10	20800	50	#0	QPSK	NV	-10	-21.50	-0.009	PASS
Band7	10	20800	50	#0	QPSK	NV	0	-22.40	-0.009	PASS
Band7	10	20800	50	#0	QPSK	NV	10	-16.37	-0.007	PASS
Band7	10	20800	50	#0	QPSK	NV	20	-10.11	-0.004	PASS
Band7	10	20800	50	#0	QPSK	NV	30	0.01	0.000	PASS
Band7	10	20800	50	#0	QPSK	NV	40	17.52	0.007	PASS
Band7	10	20800	50	#0	QPSK	NV	50	29.43	0.012	PASS
Band7	10	20800	50	#0	16QAM	NV	-30	40.77	0.016	PASS
Band7	10	20800	50	#0	16QAM	NV	-20	1.95	0.001	PASS
Band7	10	20800	50	#0	16QAM	NV	-10	11.30	0.005	PASS
Band7	10	20800	50	#0	16QAM	NV	0	17.21	0.007	PASS
Band7	10	20800	50	#0	16QAM	NV	10	20.87	0.008	PASS
Band7	10	20800	50	#0	16QAM	NV	20	23.93	0.010	PASS
Band7	10	20800	50	#0	16QAM	NV	30	31.16	0.012	PASS
Band7	10	20800	50	#0	16QAM	NV	40	39.54	0.016	PASS
Band7	10	20800	50	#0	16QAM	NV	50	11.59	0.005	PASS
Band7	10	21100	50	#0	QPSK	NV	-30	-24.93	-0.010	PASS
Band7	10	21100	50	#0	QPSK	NV	-20	-25.65	-0.010	PASS
Band7	10	21100	50	#0	QPSK	NV	-10	-25.23	-0.010	PASS
Band7	10	21100	50	#0	QPSK	NV	0	-22.97	-0.009	PASS
Band7	10	21100	50	#0	QPSK	NV	10	-18.50	-0.007	PASS
Band7	10	21100	50	#0	QPSK	NV	20	-10.49	-0.004	PASS
Band7	10	21100	50	#0	QPSK	NV	30	-4.84	-0.002	PASS
Band7	10	21100	50	#0	QPSK	NV	40	1.12	0.000	PASS
Band7	10	21100	50	#0	QPSK	NV	50	11.70	0.005	PASS
Band7	10	21100	50	#0	16QAM	NV	-30	20.43	0.008	PASS
Band7	10	21100	50	#0	16QAM	NV	-20	31.91	0.013	PASS
Band7	10	21100	50	#0	16QAM	NV	-10	39.14	0.015	PASS
Band7	10	21100	50	#0	16QAM	NV	0	43.16	0.017	PASS
Band7	10	21100	50	#0	16QAM	NV	10	45.23	0.018	PASS
Band7	10	21100	50	#0	16QAM	NV	20	-8.98	-0.004	PASS
Band7	10	21100	50	#0	16QAM	NV	30	-5.85	-0.002	PASS
Band7	10	21100	50	#0	16QAM	NV	40	-9.74	-0.004	PASS
Band7	10	21100	50	#0	16QAM	NV	50	-8.41	-0.003	PASS
Band7	10	21400	50	#0	QPSK	NV	-30	-14.82	-0.006	PASS
Band7	10	21400	50	#0	QPSK	NV	-20	0.00	0.000	PASS

Band7	10	21400	50	#0	QPSK	NV	-10	0.00	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	0	0.00	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	10	0.00	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	20	0.00	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	30	0.00	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	40	0.00	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	50	0.00	0.000	PASS
Band7	10	21400	50	#0	16QAM	NV	-30	0.00	0.000	PASS
Band7	10	21400	50	#0	16QAM	NV	-20	0.00	0.000	PASS
Band7	10	21400	50	#0	16QAM	NV	-10	0.00	0.000	PASS
Band7	10	21400	50	#0	16QAM	NV	0	0.00	0.000	PASS
Band7	15	20825	75	#0	QPSK	NV	-30	-1.75	-0.001	PASS
Band7	15	20825	75	#0	QPSK	NV	-20	0.62	0.000	PASS
Band7	15	20825	75	#0	QPSK	NV	-10	-21.37	-0.009	PASS
Band7	15	20825	75	#0	QPSK	NV	0	-49.37	-0.020	PASS
Band7	15	20825	75	#0	QPSK	NV	10	-45.29	-0.018	PASS
Band7	15	20825	75	#0	QPSK	NV	20	-39.74	-0.016	PASS
Band7	15	20825	75	#0	QPSK	NV	30	-24.16	-0.010	PASS
Band7	15	20825	75	#0	QPSK	NV	40	7.74	0.003	PASS
Band7	15	20825	75	#0	QPSK	NV	50	28.72	0.011	PASS
Band7	15	20825	75	#0	16QAM	NV	-30	20.90	0.008	PASS
Band7	15	20825	75	#0	16QAM	NV	-20	15.54	0.006	PASS
Band7	15	20825	75	#0	16QAM	NV	-10	21.03	0.008	PASS
Band7	15	20825	75	#0	16QAM	NV	0	23.26	0.009	PASS
Band7	15	20825	75	#0	16QAM	NV	10	27.07	0.011	PASS
Band7	15	20825	75	#0	16QAM	NV	20	43.52	0.017	PASS
Band7	15	20825	75	#0	16QAM	NV	30	3.55	0.001	PASS
Band7	15	20825	75	#0	16QAM	NV	40	30.56	0.012	PASS
Band7	15	20825	75	#0	16QAM	NV	50	22.97	0.009	PASS
Band7	15	21100	75	#0	QPSK	NV	-30	3.10	0.001	PASS
Band7	15	21100	75	#0	QPSK	NV	-20	31.77	0.013	PASS
Band7	15	21100	75	#0	QPSK	NV	-10	10.71	0.004	PASS
Band7	15	21100	75	#0	QPSK	NV	0	22.76	0.009	PASS
Band7	15	21100	75	#0	QPSK	NV	10	19.51	0.008	PASS
Band7	15	21100	75	#0	QPSK	NV	20	21.39	0.008	PASS
Band7	15	21100	75	#0	QPSK	NV	30	21.64	0.009	PASS
Band7	15	21100	75	#0	QPSK	NV	40	46.31	0.018	PASS
Band7	15	21100	75	#0	QPSK	NV	50	33.30	0.013	PASS
Band7	15	21100	75	#0	16QAM	NV	-30	24.13	0.010	PASS
Band7	15	21100	75	#0	16QAM	NV	-20	19.90	0.008	PASS
Band7	15	21100	75	#0	16QAM	NV	-10	10.94	0.004	PASS
Band7	15	21100	75	#0	16QAM	NV	0	35.46	0.014	PASS
Band7	15	21100	75	#0	16QAM	NV	10	13.60	0.005	PASS

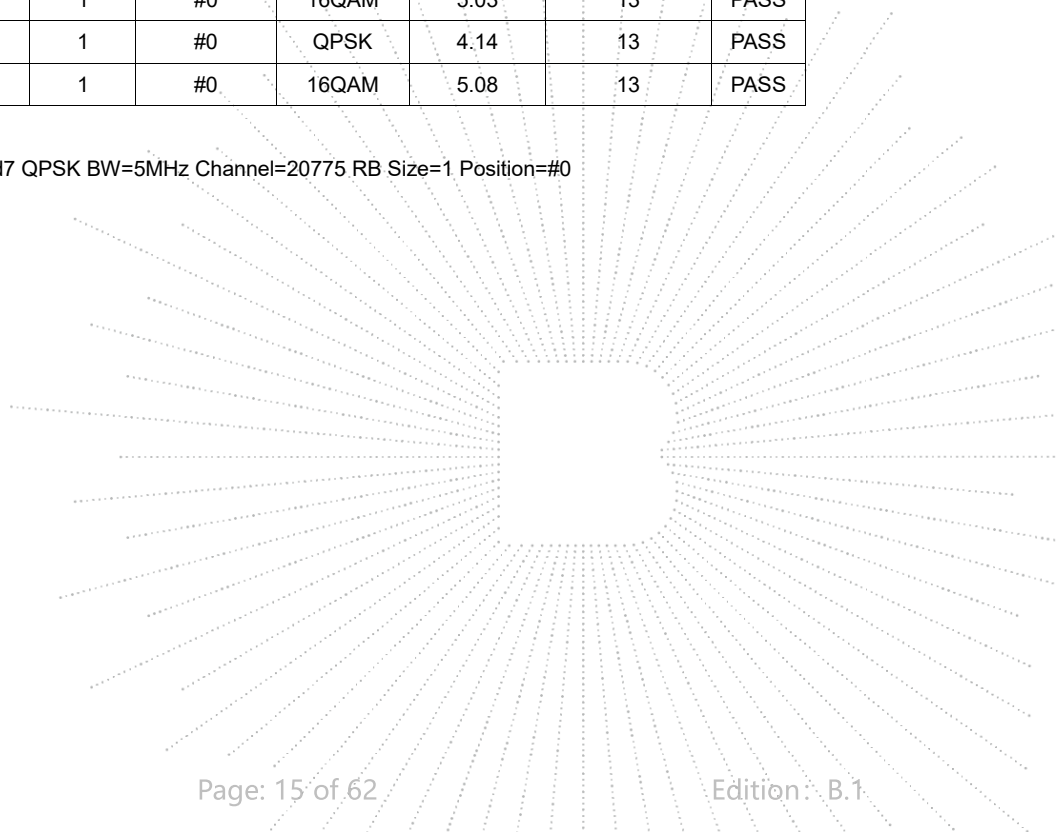
Band7	15	21100	75	#0	16QAM	NV	20	34.88	0.014	PASS
Band7	15	21100	75	#0	16QAM	NV	30	3.06	0.001	PASS
Band7	15	21100	75	#0	16QAM	NV	40	29.98	0.012	PASS
Band7	15	21100	75	#0	16QAM	NV	50	41.11	0.016	PASS
Band7	15	21375	75	#0	QPSK	NV	-30	4.98	0.002	PASS
Band7	15	21375	75	#0	QPSK	NV	-20	29.74	0.012	PASS
Band7	15	21375	75	#0	QPSK	NV	-10	33.59	0.013	PASS
Band7	15	21375	75	#0	QPSK	NV	0	32.57	0.013	PASS
Band7	15	21375	75	#0	QPSK	NV	10	12.07	0.005	PASS
Band7	15	21375	75	#0	QPSK	NV	20	24.13	0.009	PASS
Band7	15	21375	75	#0	QPSK	NV	30	16.05	0.006	PASS
Band7	15	21375	75	#0	QPSK	NV	40	28.52	0.011	PASS
Band7	15	21375	75	#0	QPSK	NV	50	34.58	0.013	PASS
Band7	15	21375	75	#0	16QAM	NV	-30	28.15	0.011	PASS
Band7	15	21375	75	#0	16QAM	NV	-20	24.40	0.010	PASS
Band7	15	21375	75	#0	16QAM	NV	-10	23.30	0.009	PASS
Band7	15	21375	75	#0	16QAM	NV	0	14.49	0.006	PASS
Band7	15	21375	75	#0	16QAM	NV	10	24.45	0.010	PASS
Band7	15	21375	75	#0	16QAM	NV	20	6.57	0.003	PASS
Band7	15	21375	75	#0	16QAM	NV	30	22.43	0.009	PASS
Band7	15	21375	75	#0	16QAM	NV	40	34.98	0.014	PASS
Band7	15	21375	75	#0	16QAM	NV	50	30.86	0.012	PASS
Band7	20	20850	100	#0	QPSK	NV	-30	-10.44	-0.004	PASS
Band7	20	20850	100	#0	QPSK	NV	-20	13.29	0.005	PASS
Band7	20	20850	100	#0	QPSK	NV	-10	26.22	0.010	PASS
Band7	20	20850	100	#0	QPSK	NV	0	3.76	0.001	PASS
Band7	20	20850	100	#0	QPSK	NV	10	36.33	0.014	PASS
Band7	20	20850	100	#0	QPSK	NV	20	29.08	0.012	PASS
Band7	20	20850	100	#0	QPSK	NV	30	0.09	0.000	PASS
Band7	20	20850	100	#0	QPSK	NV	40	25.86	0.010	PASS
Band7	20	20850	100	#0	QPSK	NV	50	19.47	0.008	PASS
Band7	20	20850	100	#0	16QAM	NV	-30	28.38	0.011	PASS
Band7	20	20850	100	#0	16QAM	NV	-20	35.88	0.014	PASS
Band7	20	20850	100	#0	16QAM	NV	-10	21.54	0.009	PASS
Band7	20	20850	100	#0	16QAM	NV	0	28.84	0.011	PASS
Band7	20	20850	100	#0	16QAM	NV	10	16.98	0.007	PASS
Band7	20	20850	100	#0	16QAM	NV	20	29.58	0.012	PASS
Band7	20	20850	100	#0	16QAM	NV	30	20.90	0.008	PASS
Band7	20	20850	100	#0	16QAM	NV	40	25.23	0.010	PASS
Band7	20	20850	100	#0	16QAM	NV	50	40.98	0.016	PASS
Band7	20	21100	100	#0	QPSK	NV	-30	-32.17	-0.013	PASS
Band7	20	21100	100	#0	QPSK	NV	-20	-23.60	-0.009	PASS
Band7	20	21100	100	#0	QPSK	NV	-10	-2.75	-0.001	PASS

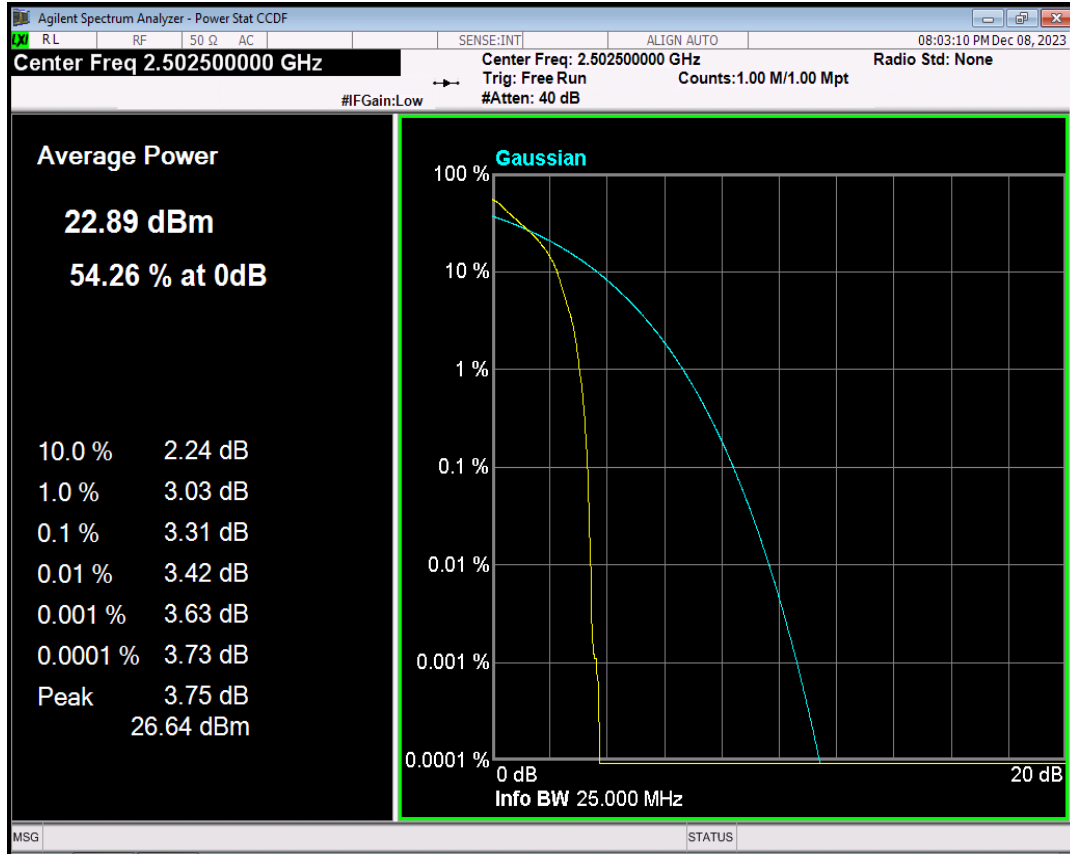
Band7	20	21100	100	#0	QPSK	NV	0	15.82	0.006	PASS
Band7	20	21100	100	#0	QPSK	NV	10	22.44	0.009	PASS
Band7	20	21100	100	#0	QPSK	NV	20	29.40	0.012	PASS
Band7	20	21100	100	#0	QPSK	NV	30	30.83	0.012	PASS
Band7	20	21100	100	#0	QPSK	NV	40	13.50	0.005	PASS
Band7	20	21100	100	#0	QPSK	NV	50	34.02	0.013	PASS
Band7	20	21100	100	#0	16QAM	NV	-30	5.92	0.002	PASS
Band7	20	21100	100	#0	16QAM	NV	-20	23.63	0.009	PASS
Band7	20	21100	100	#0	16QAM	NV	-10	39.57	0.016	PASS
Band7	20	21100	100	#0	16QAM	NV	0	7.32	0.003	PASS
Band7	20	21100	100	#0	16QAM	NV	10	10.03	0.004	PASS
Band7	20	21100	100	#0	16QAM	NV	20	12.89	0.005	PASS
Band7	20	21100	100	#0	16QAM	NV	30	16.29	0.006	PASS
Band7	20	21100	100	#0	16QAM	NV	40	22.06	0.009	PASS
Band7	20	21100	100	#0	16QAM	NV	50	18.10	0.007	PASS
Band7	20	21350	100	#0	QPSK	NV	-30	-8.88	-0.003	PASS
Band7	20	21350	100	#0	QPSK	NV	-20	8.67	0.003	PASS
Band7	20	21350	100	#0	QPSK	NV	-10	33.23	0.013	PASS
Band7	20	21350	100	#0	QPSK	NV	0	39.25	0.015	PASS
Band7	20	21350	100	#0	QPSK	NV	10	34.06	0.013	PASS
Band7	20	21350	100	#0	QPSK	NV	20	29.01	0.011	PASS
Band7	20	21350	100	#0	QPSK	NV	30	-1.87	-0.001	PASS
Band7	20	21350	100	#0	QPSK	NV	40	30.83	0.012	PASS
Band7	20	21350	100	#0	QPSK	NV	50	36.02	0.014	PASS
Band7	20	21350	100	#0	16QAM	NV	-30	30.93	0.012	PASS
Band7	20	21350	100	#0	16QAM	NV	-20	-0.53	0.000	PASS
Band7	20	21350	100	#0	16QAM	NV	-10	20.44	0.008	PASS
Band7	20	21350	100	#0	16QAM	NV	0	23.69	0.009	PASS
Band7	20	21350	100	#0	16QAM	NV	10	28.11	0.011	PASS
Band7	20	21350	100	#0	16QAM	NV	20	32.70	0.013	PASS
Band7	20	21350	100	#0	16QAM	NV	30	33.76	0.013	PASS
Band7	20	21350	100	#0	16QAM	NV	40	33.09	0.013	PASS
Band7	20	21350	100	#0	16QAM	NV	50	32.24	0.013	PASS

Appendix 3. Peak-to-Average Ratio

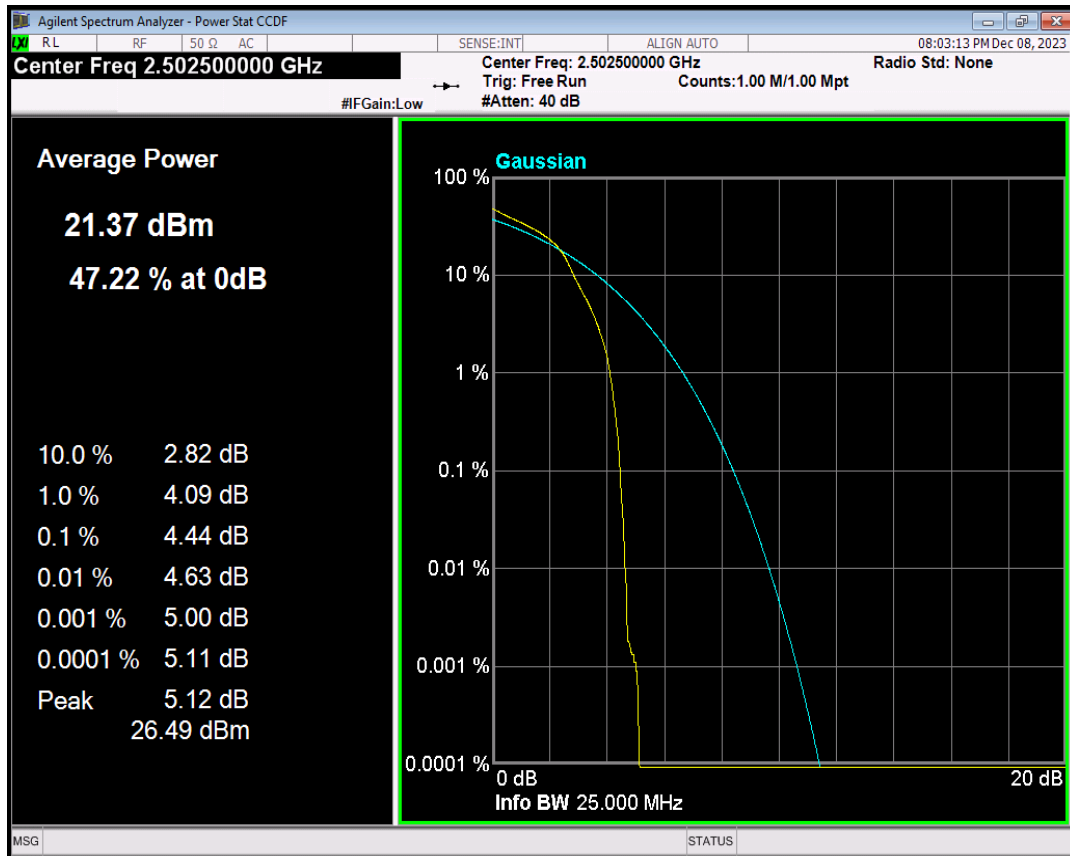
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band7	5	20775	1	#0	QPSK	3.31	13	PASS
Band7	5	20775	1	#0	16QAM	4.44	13	PASS
Band7	5	21100	1	#0	QPSK	2.88	13	PASS
Band7	5	21100	1	#0	16QAM	3.74	13	PASS
Band7	5	21425	1	#0	QPSK	3.17	13	PASS
Band7	5	21425	1	#0	16QAM	4.05	13	PASS
Band7	10	20800	1	#0	QPSK	3.36	13	PASS
Band7	10	20800	1	#0	16QAM	4.36	13	PASS
Band7	10	21100	1	#0	QPSK	3.21	13	PASS
Band7	10	21100	1	#0	16QAM	3.87	13	PASS
Band7	10	21400	1	#0	QPSK	3.77	13	PASS
Band7	10	21400	1	#0	16QAM	4.99	13	PASS
Band7	15	20825	1	#0	QPSK	3.38	13	PASS
Band7	15	20825	1	#0	16QAM	4.41	13	PASS
Band7	15	21100	1	#0	QPSK	3.54	13	PASS
Band7	15	21100	1	#0	16QAM	4.20	13	PASS
Band7	15	21375	1	#0	QPSK	4.40	13	PASS
Band7	15	21375	1	#0	16QAM	5.21	13	PASS
Band7	20	20850	1	#0	QPSK	3.31	13	PASS
Band7	20	20850	1	#0	16QAM	4.61	13	PASS
Band7	20	21100	1	#0	QPSK	3.96	13	PASS
Band7	20	21100	1	#0	16QAM	5.03	13	PASS
Band7	20	21350	1	#0	QPSK	4.14	13	PASS
Band7	20	21350	1	#0	16QAM	5.08	13	PASS

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

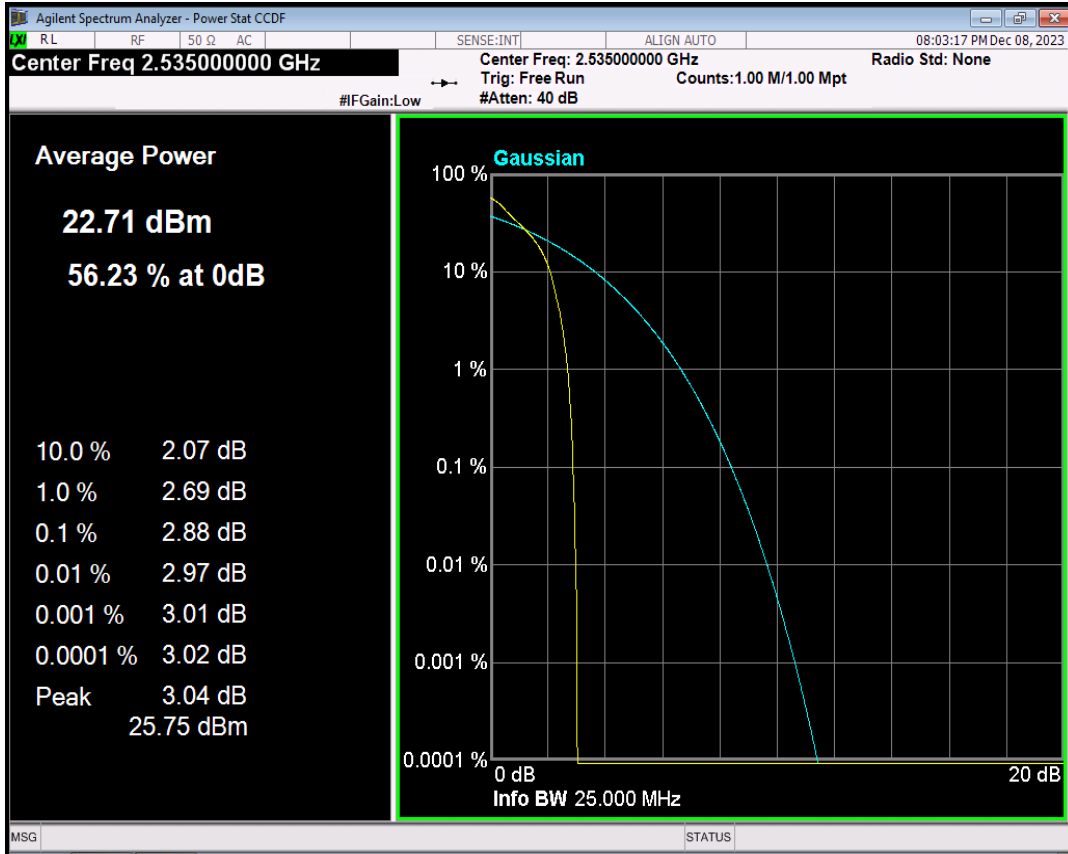




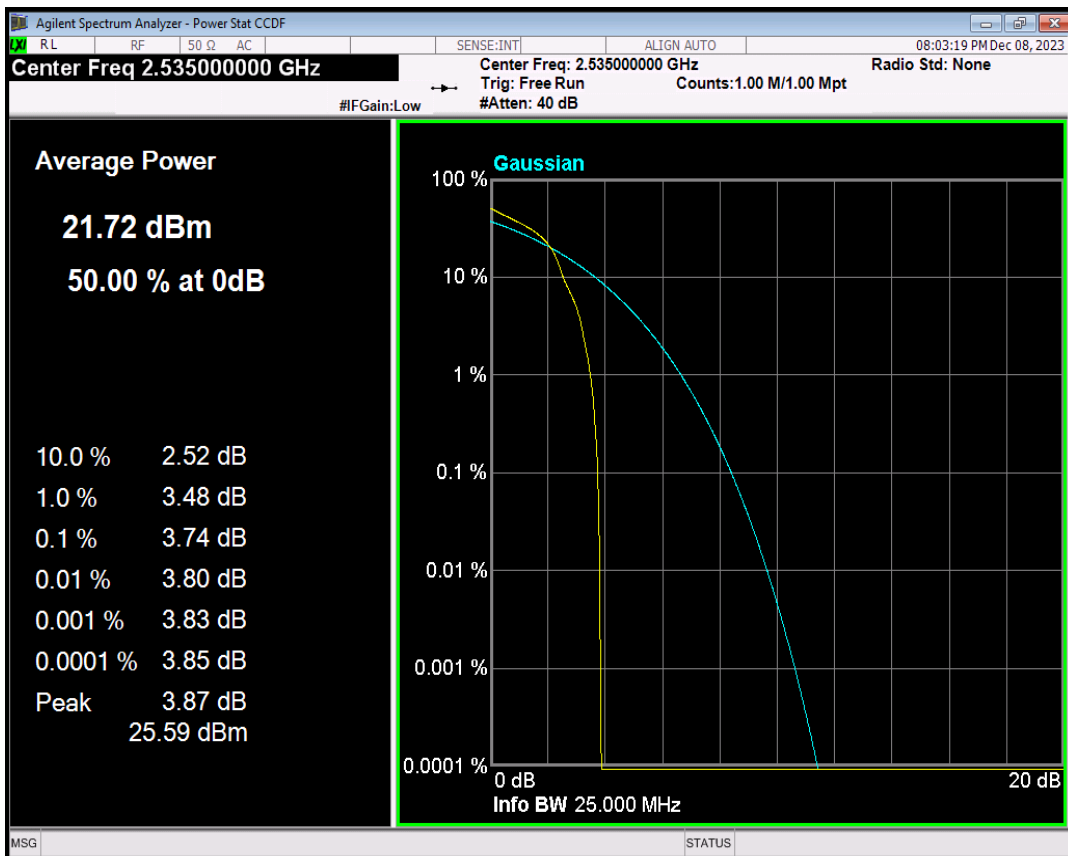
Band7 16QAM BW=5MHz Channel=20775 RB Size=1 Position=#0



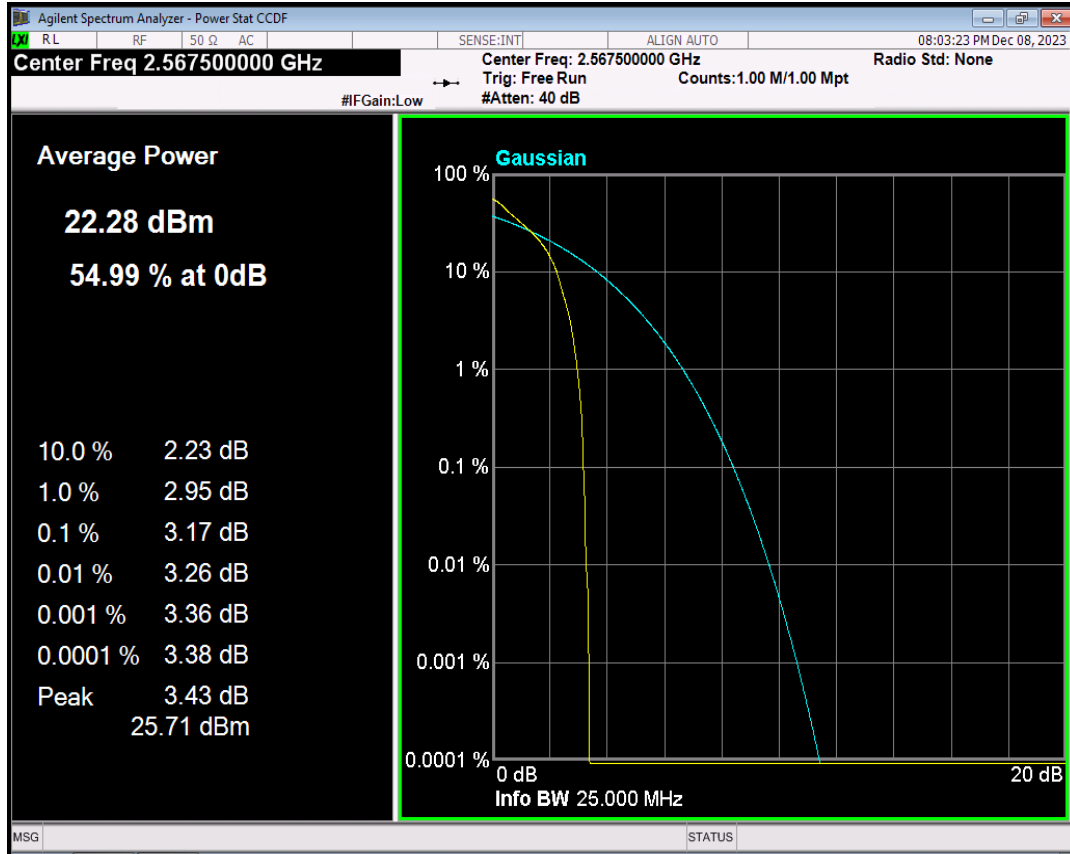
Band7 QPSK BW=5MHz Channel=21100 RB Size=1 Position=#0



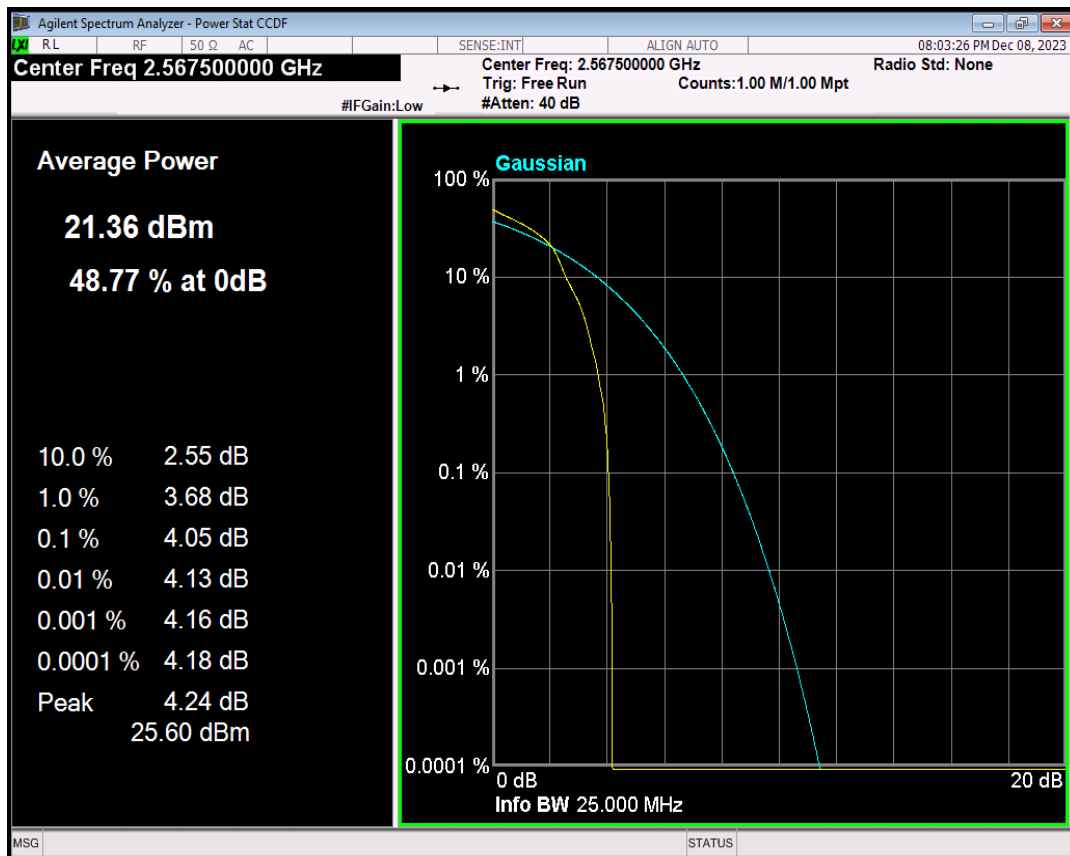
Band7 16QAM BW=5MHz Channel=21100 RB Size=1 Position=#0



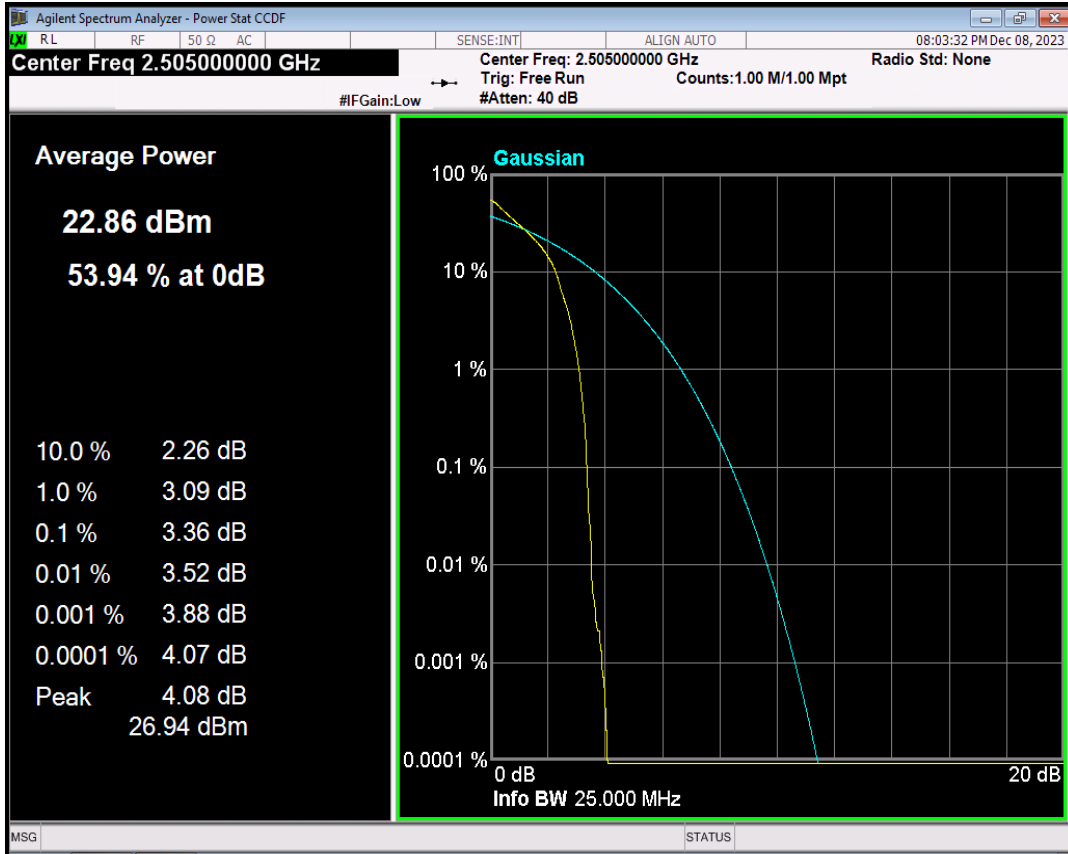
Band7 QPSK BW=5MHz Channel=21425 RB Size=1 Position=#0



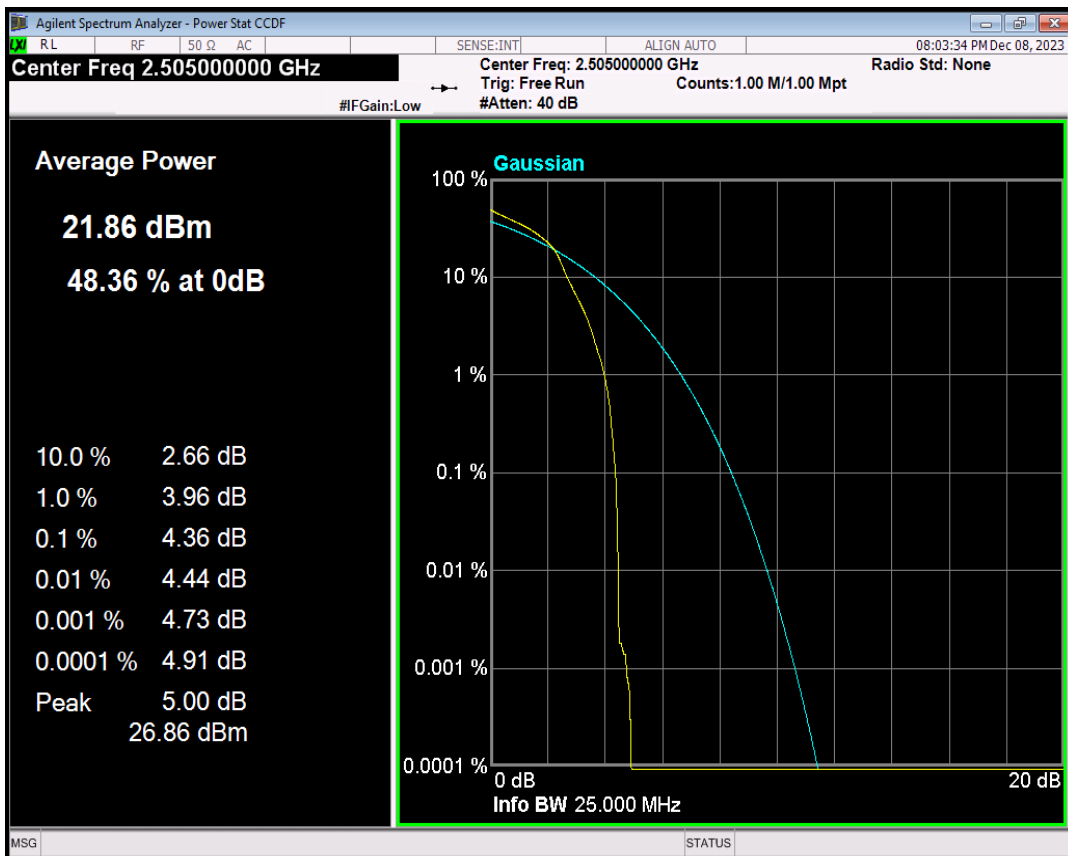
Band7 16QAM BW=5MHz Channel=21425 RB Size=1 Position=#0



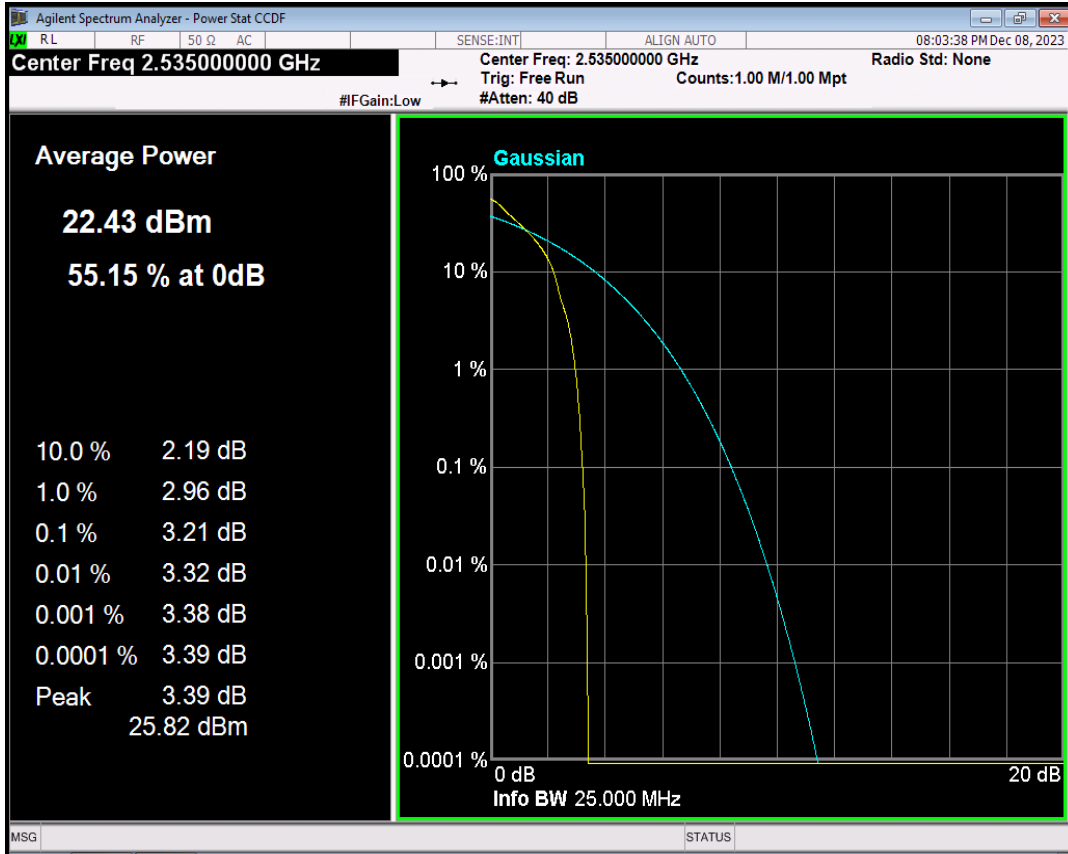
Band7 QPSK BW=10MHz Channel=20800 RB Size=1 Position=#0



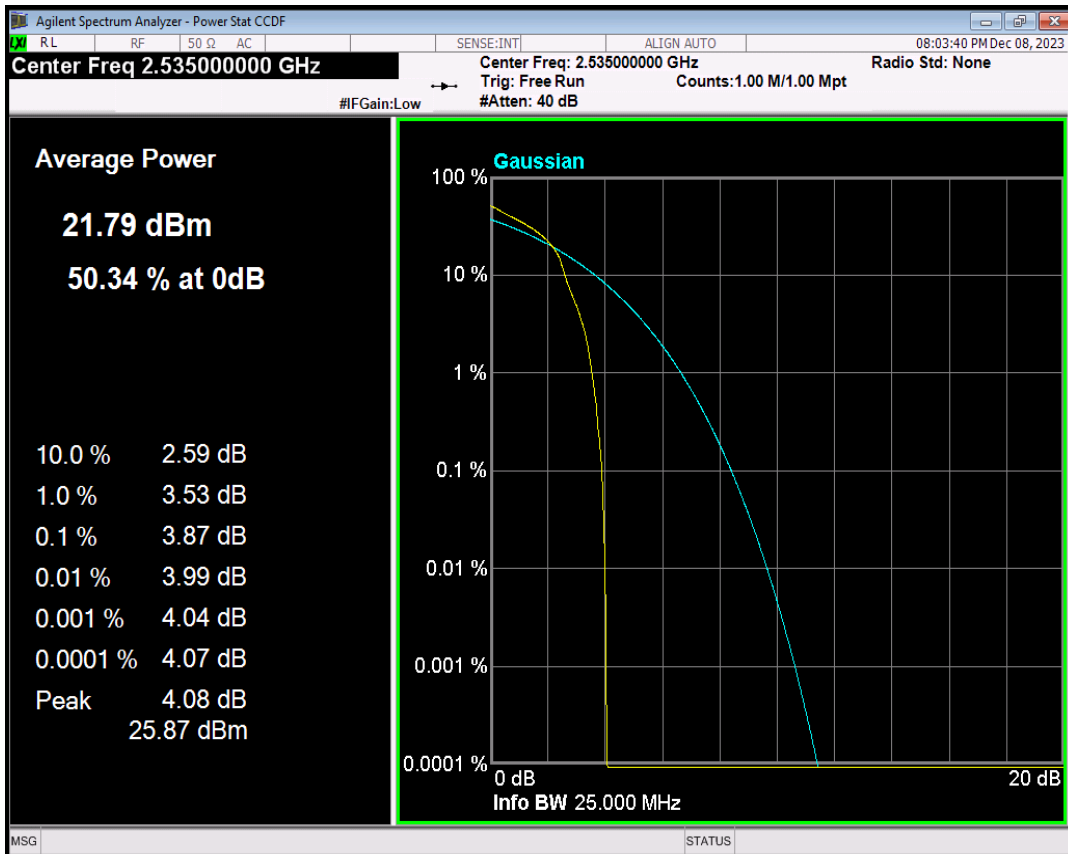
Band7 16QAM BW=10MHz Channel=20800 RB Size=1 Position=#0



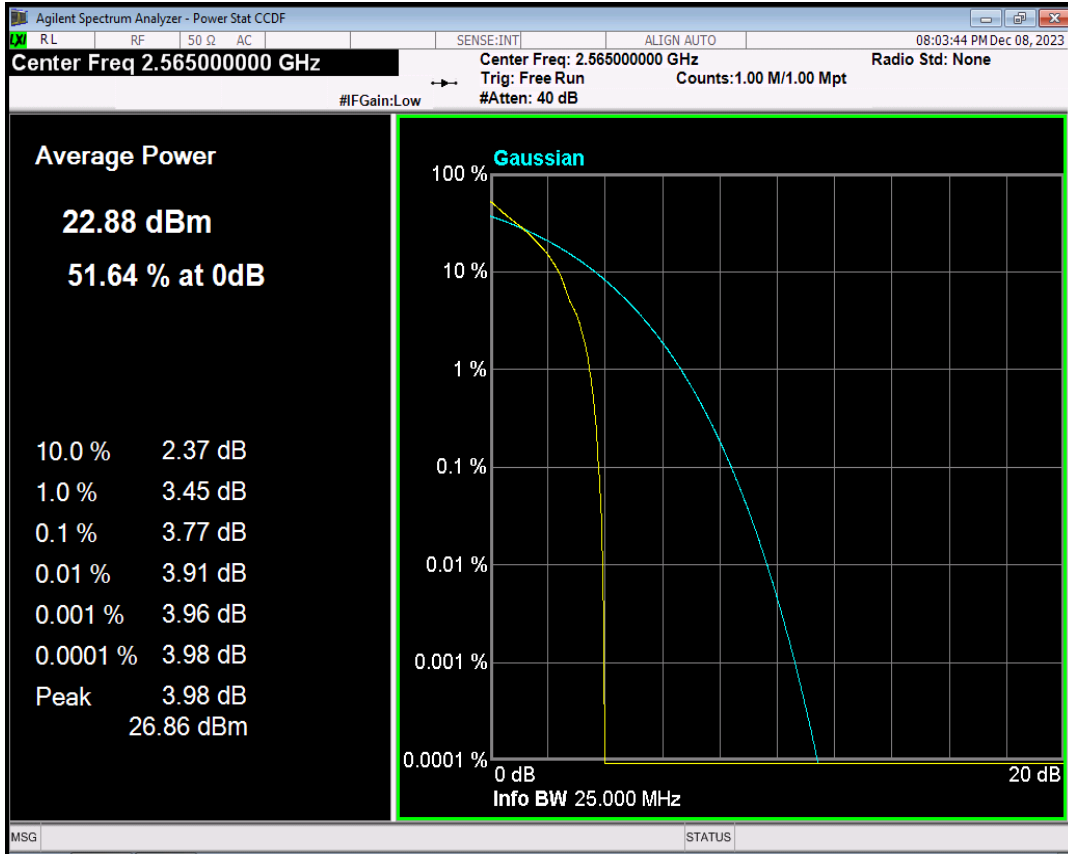
Band7 QPSK BW=10MHz Channel=21100 RB Size=1 Position=#0



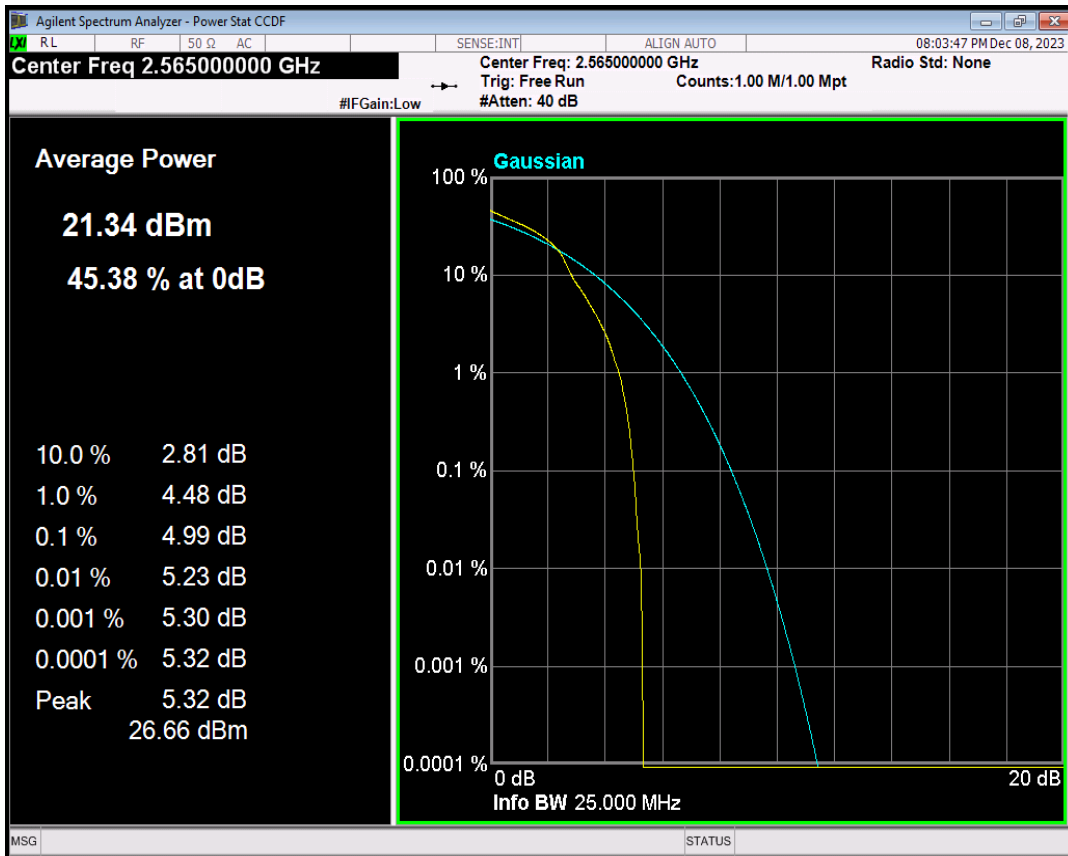
Band7 16QAM BW=10MHz Channel=21100 RB Size=1 Position=#0



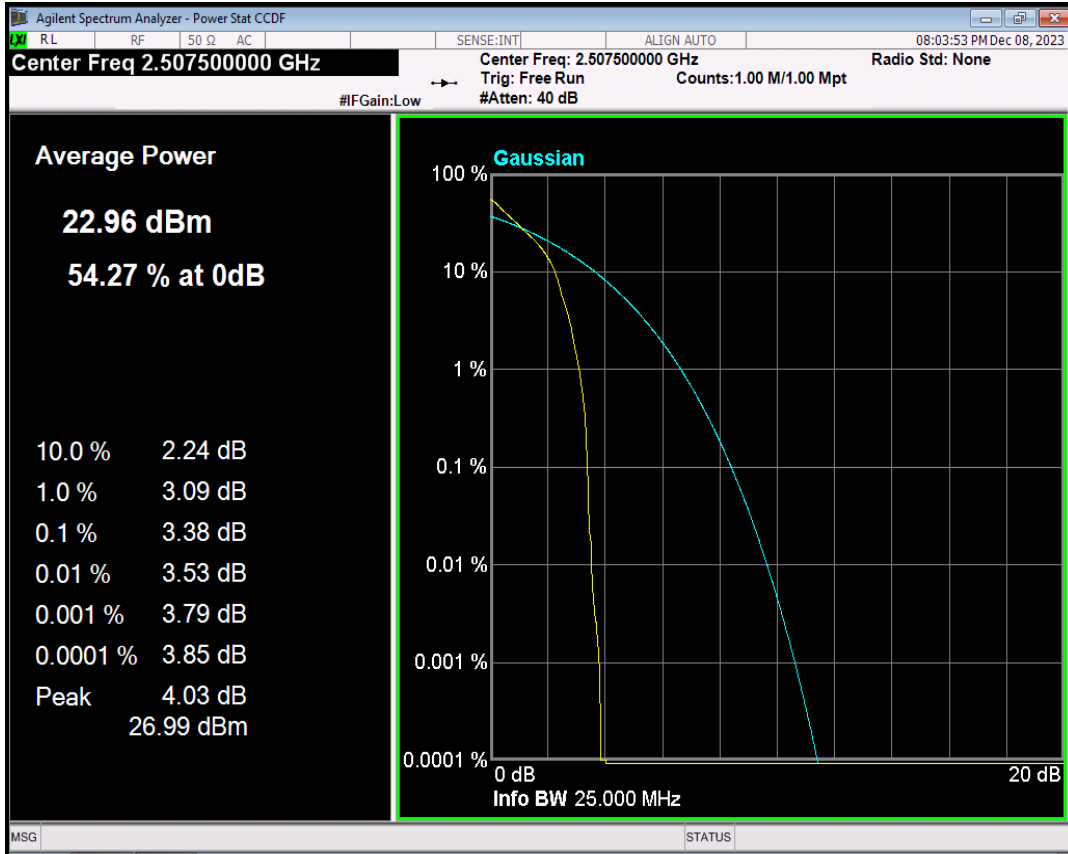
Band7 QPSK BW=10MHz Channel=21400 RB Size=1 Position=#0



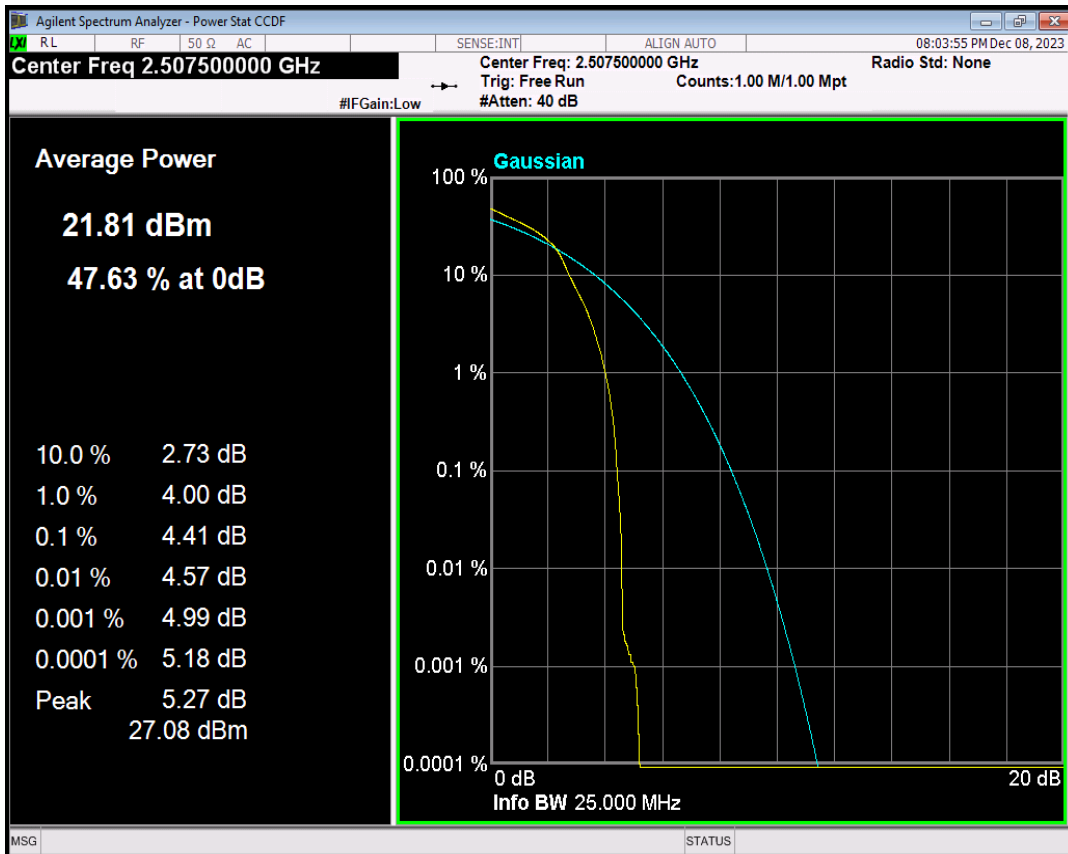
Band7 16QAM BW=10MHz Channel=21400 RB Size=1 Position=#0



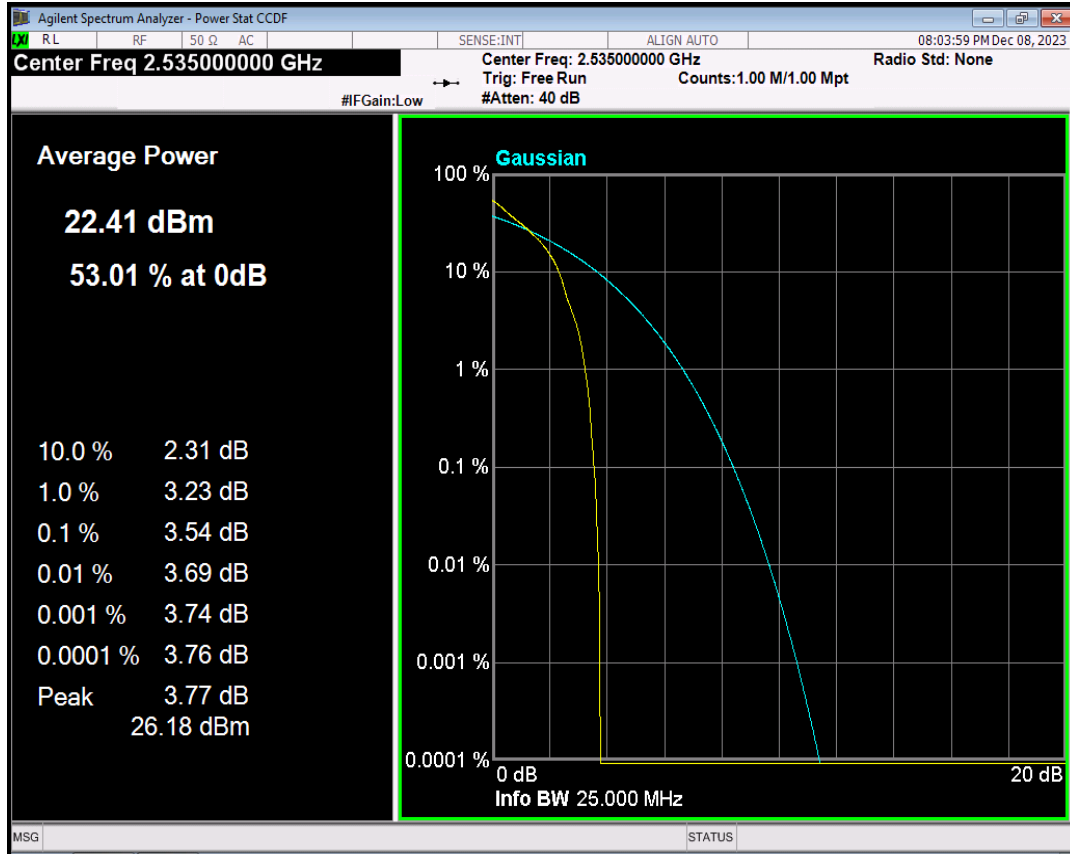
Band7 QPSK BW=15MHz Channel=20825 RB Size=1 Position=#0



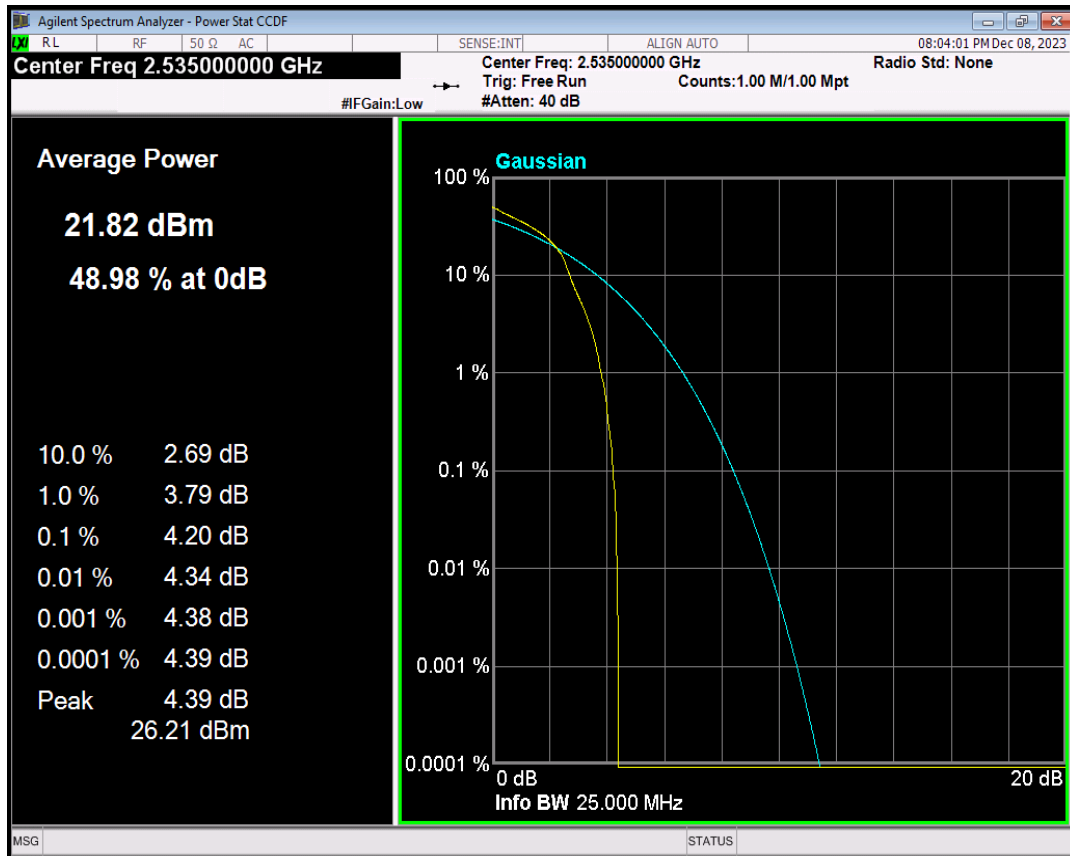
Band7 16QAM BW=15MHz Channel=20825 RB Size=1 Position=#0



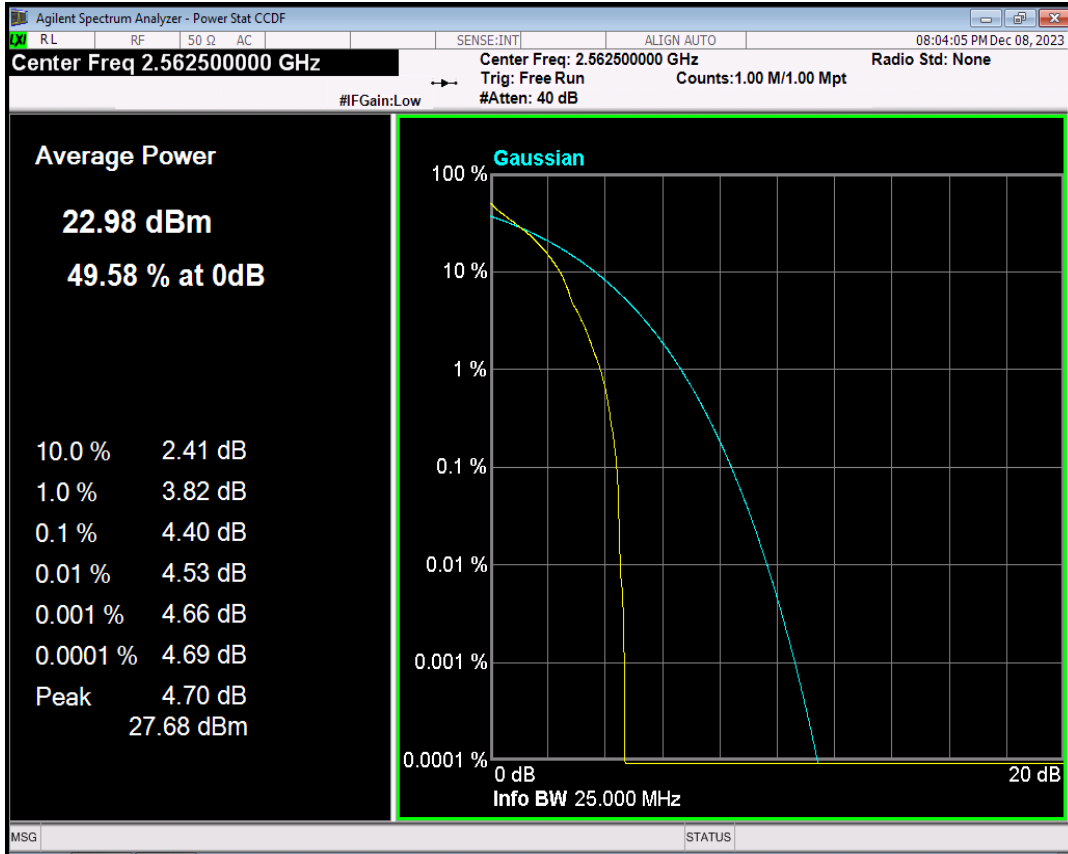
Band7 QPSK BW=15MHz Channel=21100 RB Size=1 Position=#0



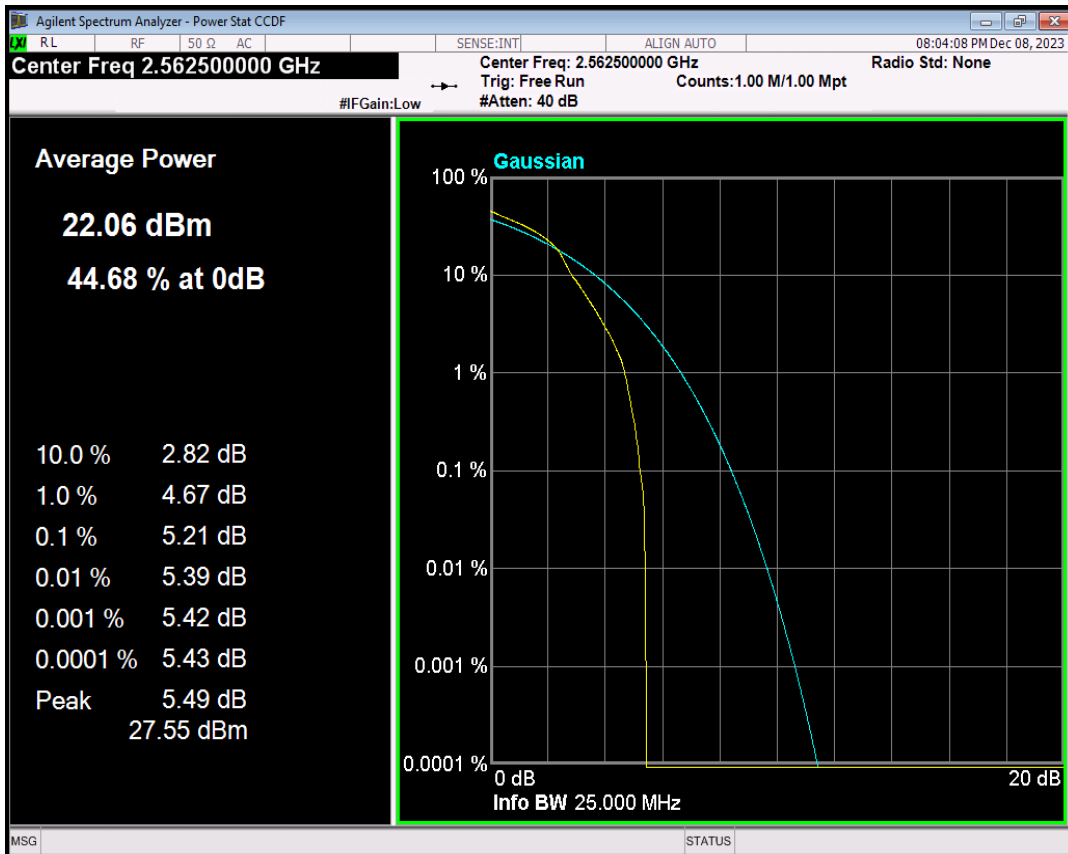
Band7 16QAM BW=15MHz Channel=21100 RB Size=1 Position=#0



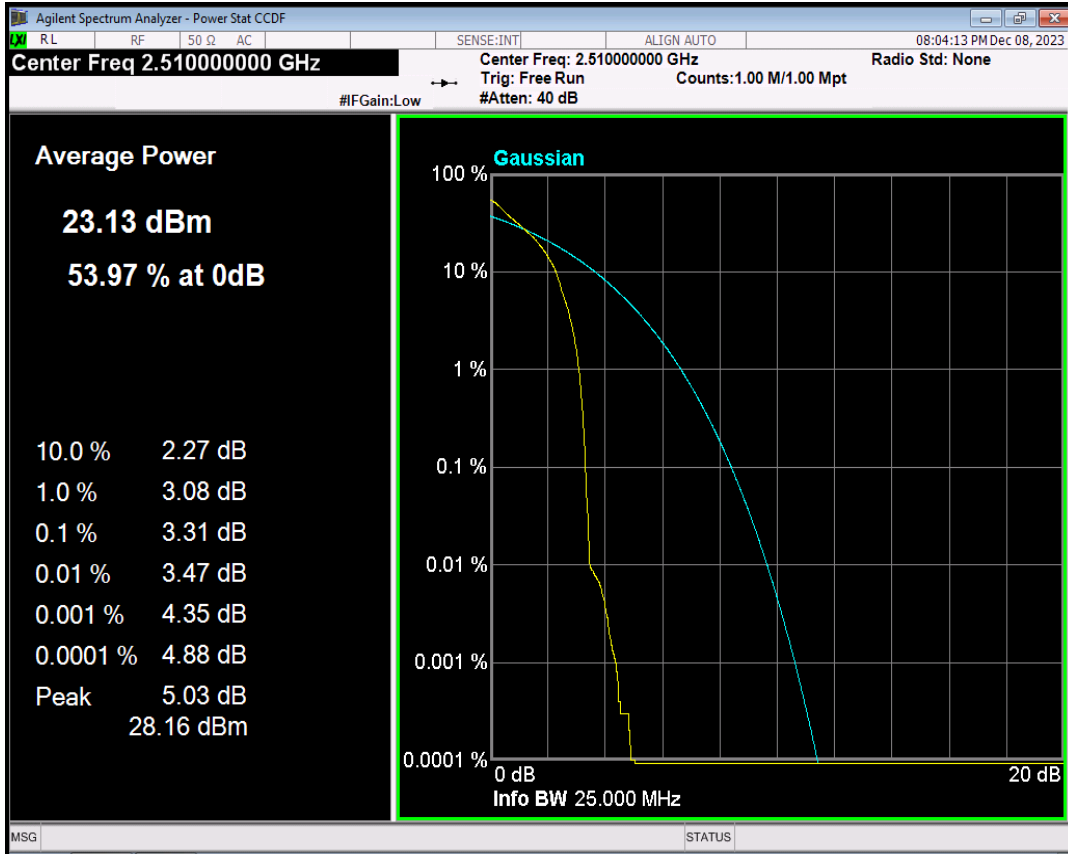
Band7 QPSK BW=15MHz Channel=21375 RB Size=1 Position=#0



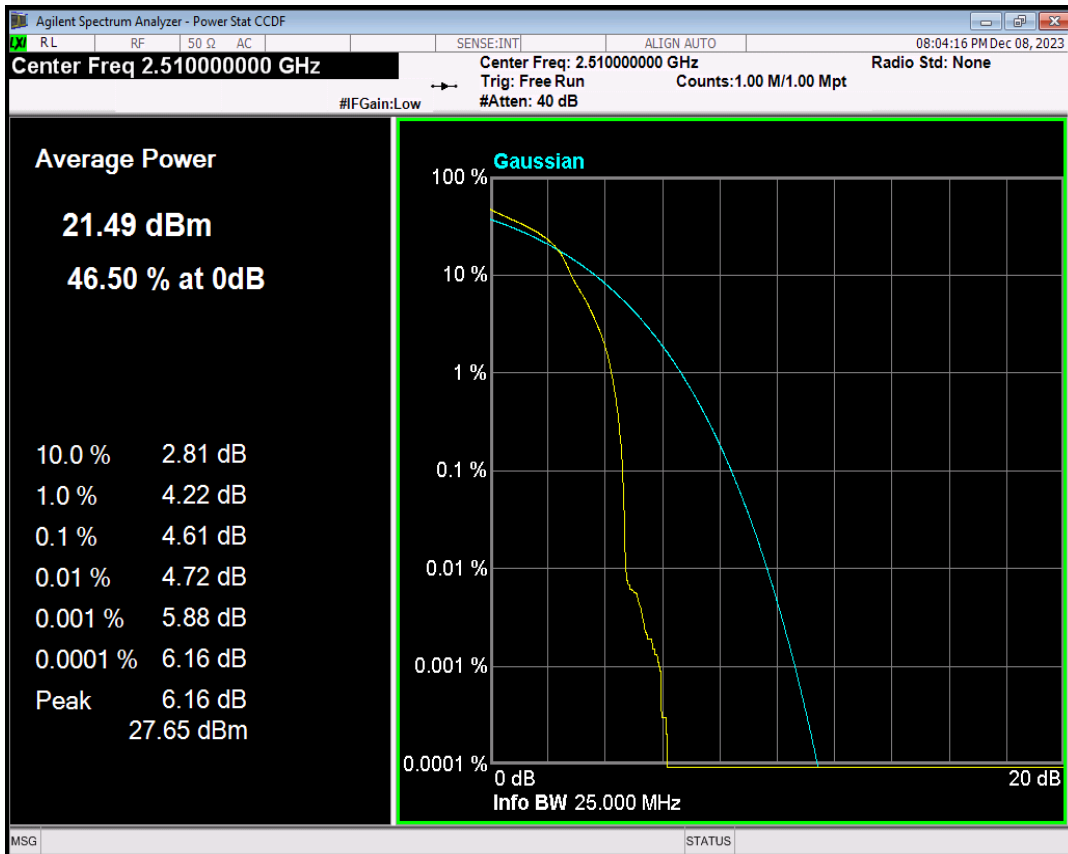
Band7 16QAM BW=15MHz Channel=21375 RB Size=1 Position=#0



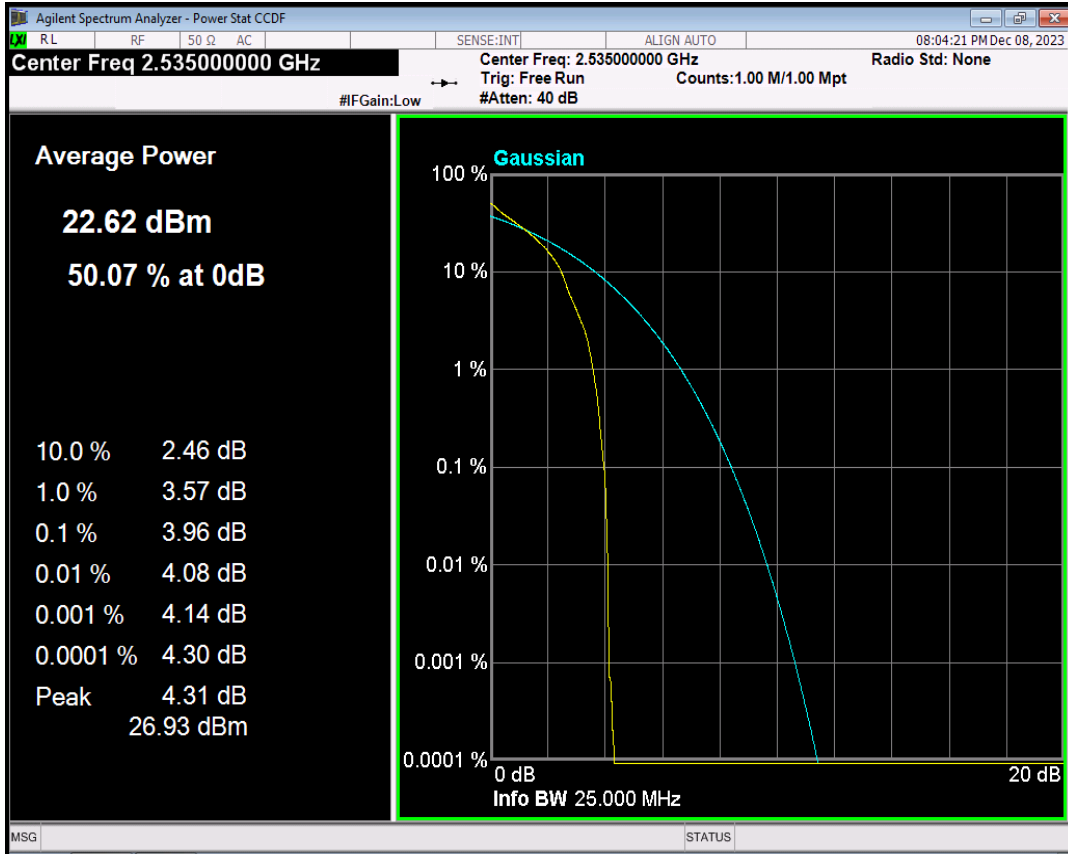
Band7 QPSK BW=20MHz Channel=20850 RB Size=1 Position=#0



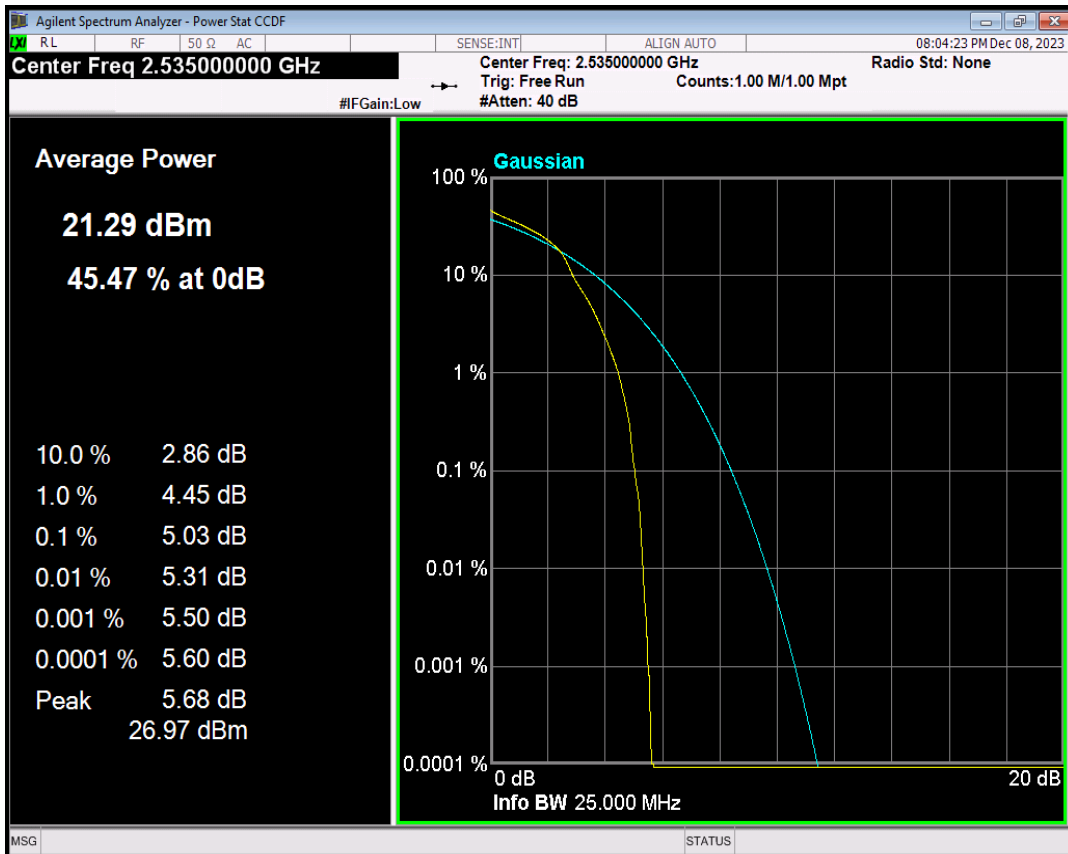
Band7 16QAM BW=20MHz Channel=20850 RB Size=1 Position=#0



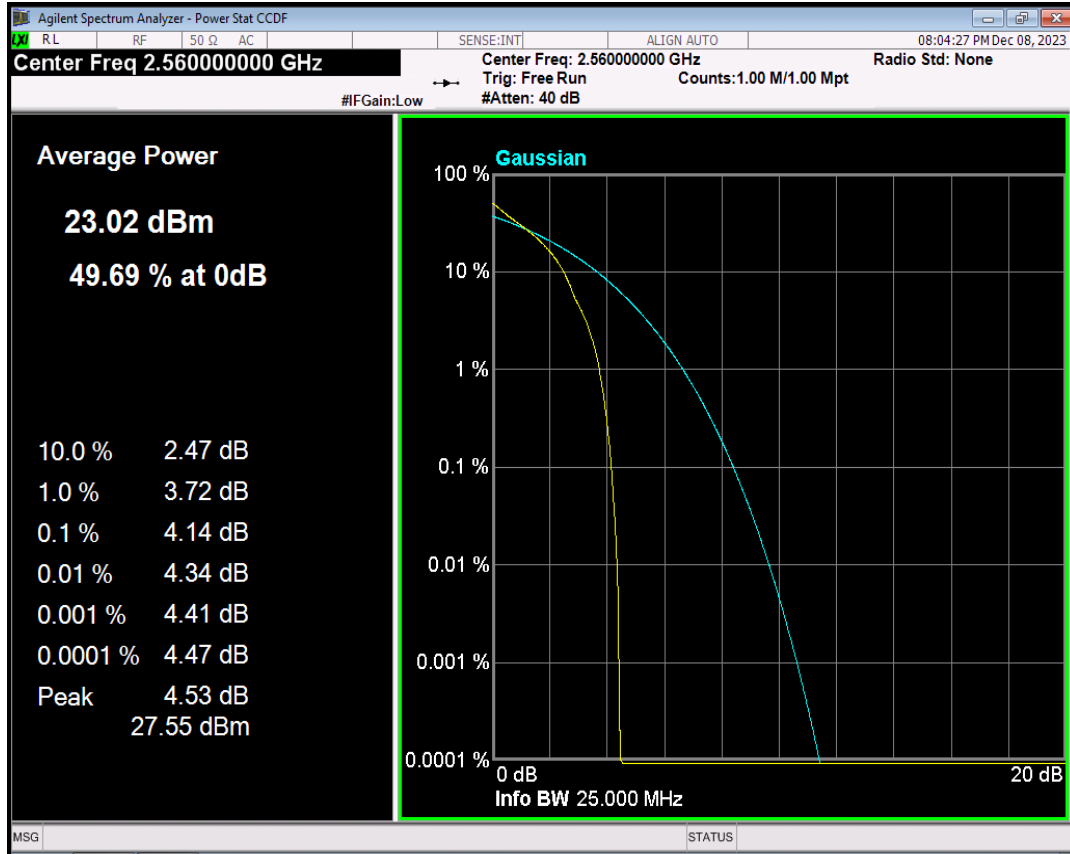
Band7 QPSK BW=20MHz Channel=21100 RB Size=1 Position=#0



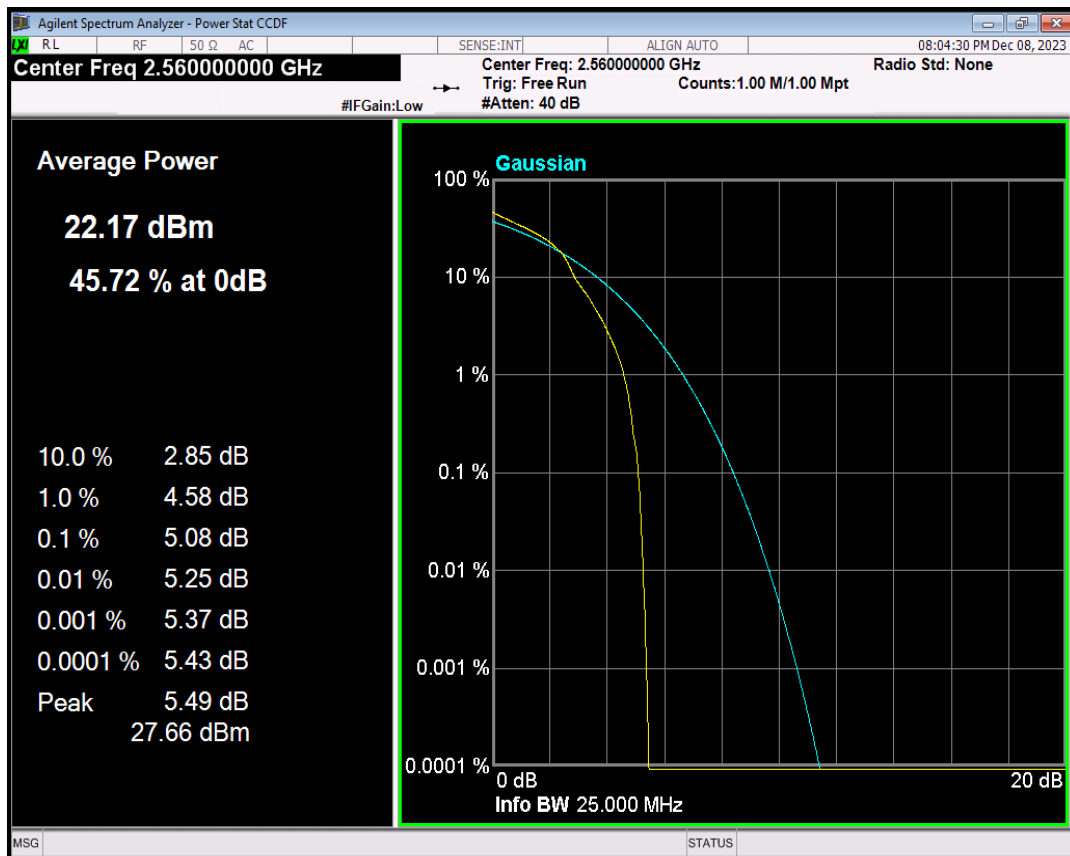
Band7 16QAM BW=20MHz Channel=21100 RB Size=1 Position=#0



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



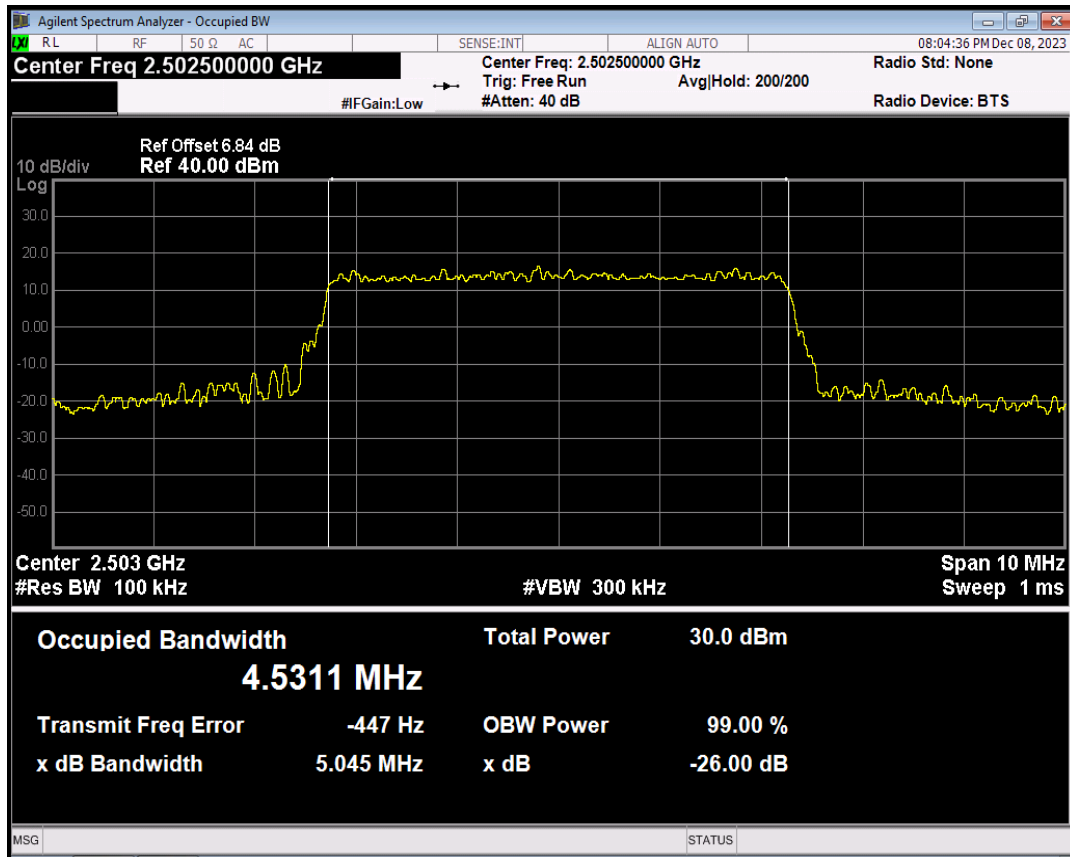
Band7 16QAM BW=20MHz Channel=21350 RB Size=1 Position=#0



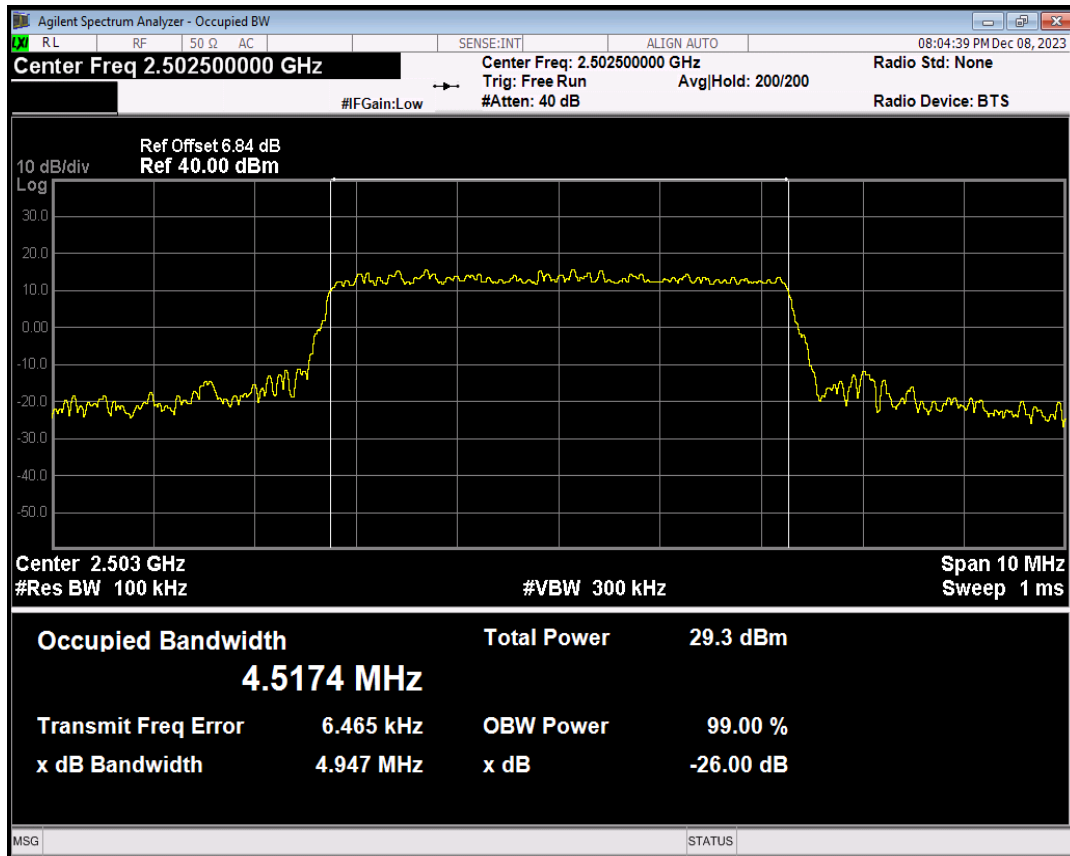
Appendix 4. Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band7	5	20775	25	#0	QPSK	4.531	5.045	PASS
Band7	5	20775	25	#0	16QAM	4.517	4.947	PASS
Band7	5	21100	25	#0	QPSK	4.524	5.219	PASS
Band7	5	21100	25	#0	16QAM	4.542	5.365	PASS
Band7	5	21425	25	#0	QPSK	4.517	5.476	PASS
Band7	5	21425	25	#0	16QAM	4.565	5.405	PASS
Band7	10	20800	50	#0	QPSK	8.984	9.883	PASS
Band7	10	20800	50	#0	16QAM	9.009	10.210	PASS
Band7	10	21100	50	#0	QPSK	9.002	9.909	PASS
Band7	10	21100	50	#0	16QAM	9.039	9.992	PASS
Band7	10	21400	50	#0	QPSK	9.025	10.080	PASS
Band7	10	21400	50	#0	16QAM	9.024	10.187	PASS
Band7	15	20825	75	#0	QPSK	13.498	14.750	PASS
Band7	15	20825	75	#0	16QAM	13.496	14.918	PASS
Band7	15	21100	75	#0	QPSK	13.517	15.028	PASS
Band7	15	21100	75	#0	16QAM	13.498	14.738	PASS
Band7	15	21375	75	#0	QPSK	13.490	14.924	PASS
Band7	15	21375	75	#0	16QAM	13.451	14.683	PASS
Band7	20	20850	100	#0	QPSK	17.966	19.640	PASS
Band7	20	20850	100	#0	16QAM	18.008	19.567	PASS
Band7	20	21100	100	#0	QPSK	18.033	19.596	PASS
Band7	20	21100	100	#0	16QAM	18.090	19.966	PASS
Band7	20	21350	100	#0	QPSK	18.066	19.693	PASS
Band7	20	21350	100	#0	16QAM	18.052	20.124	PASS

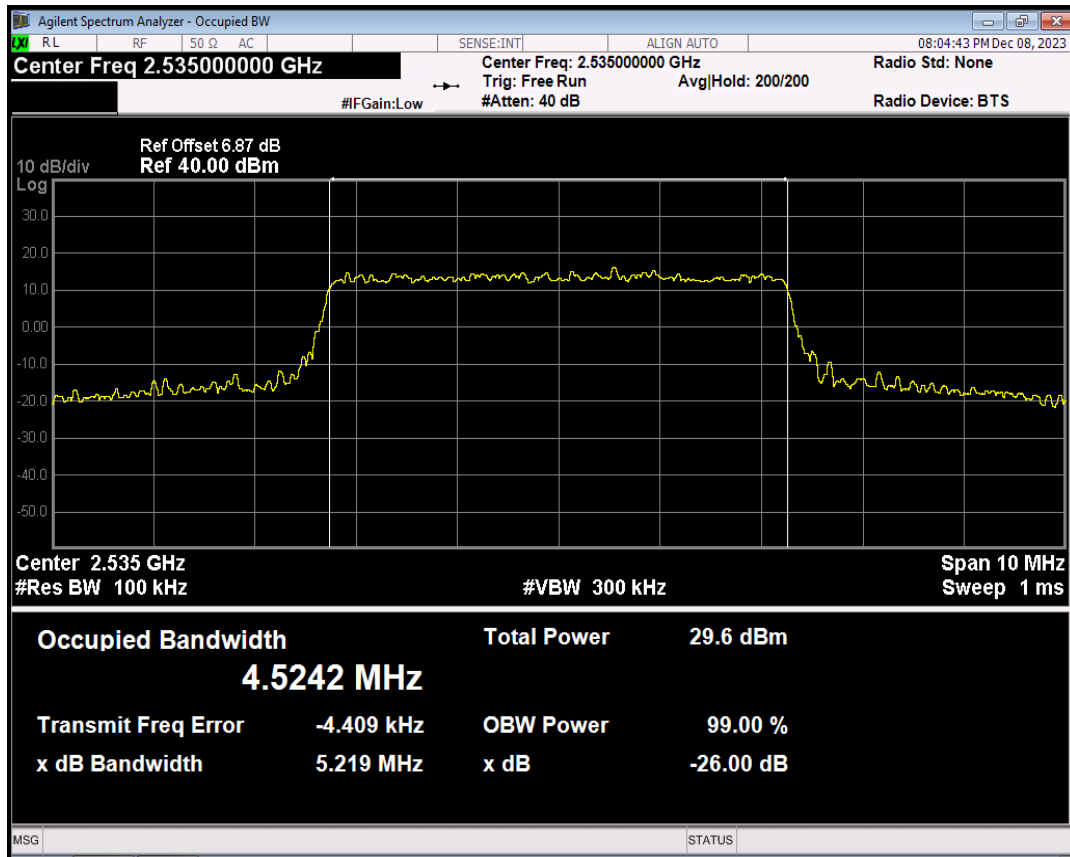
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



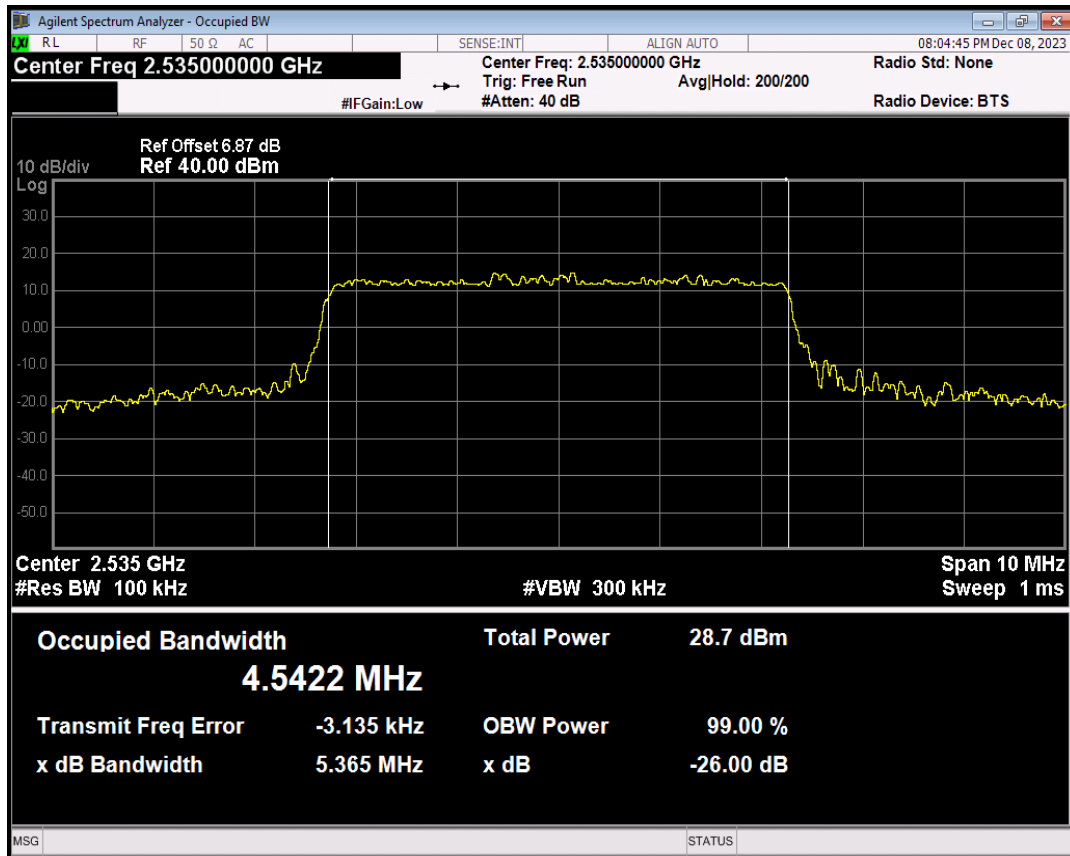
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



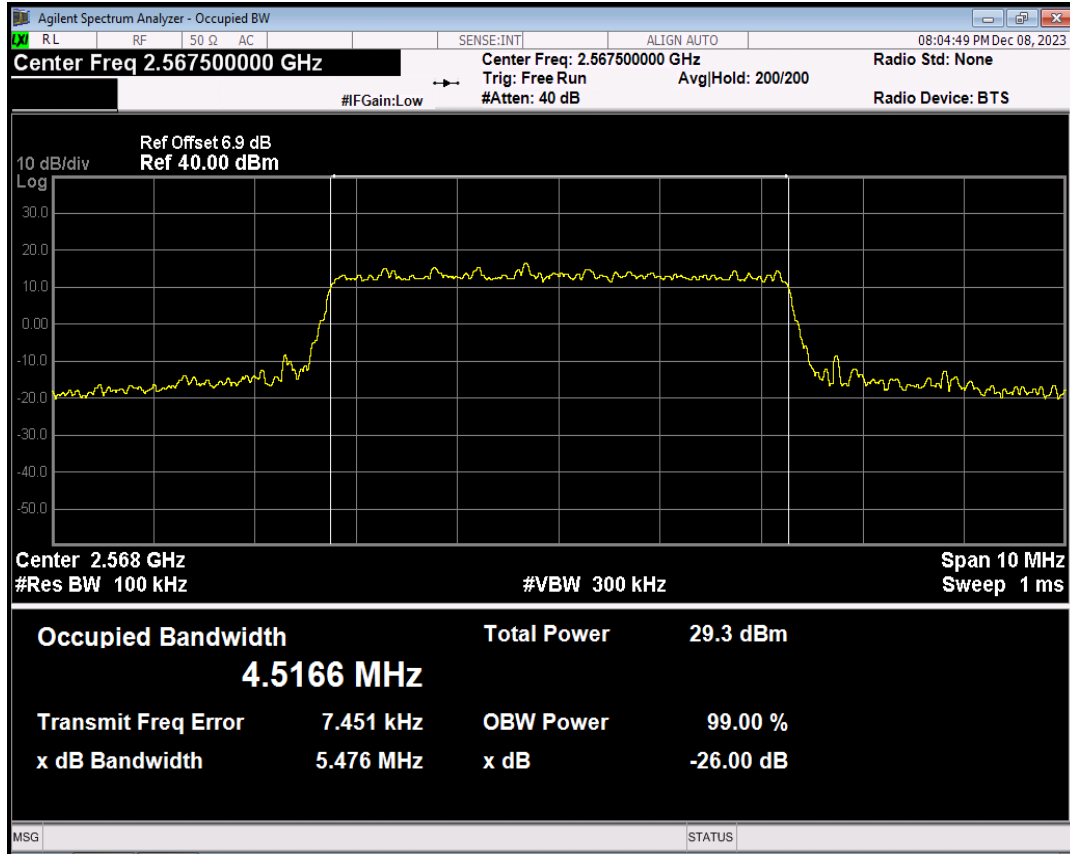
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



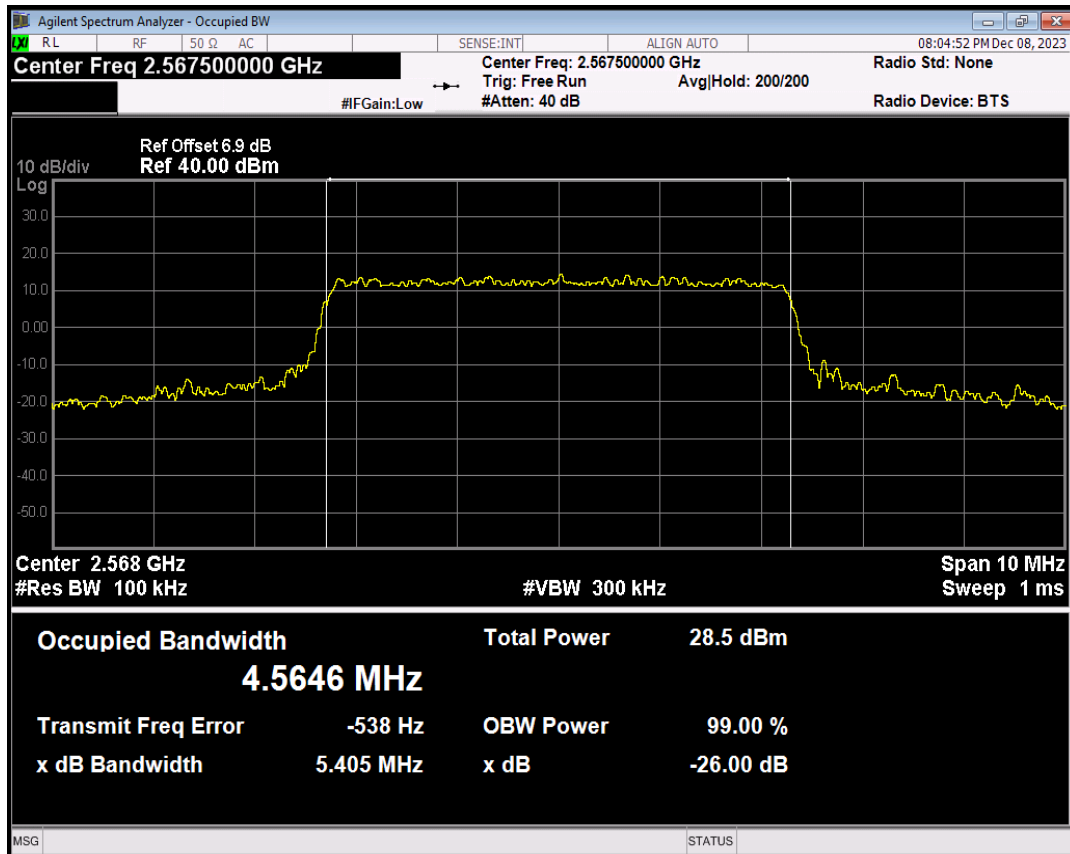
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



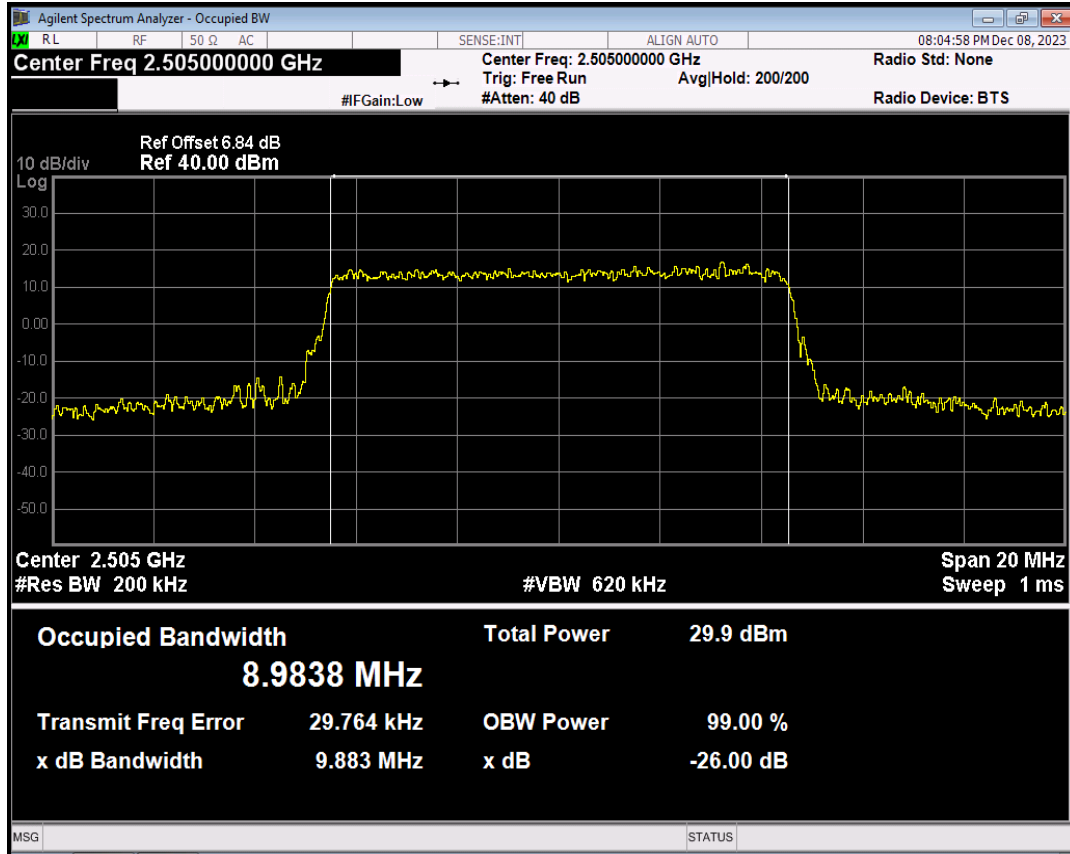
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



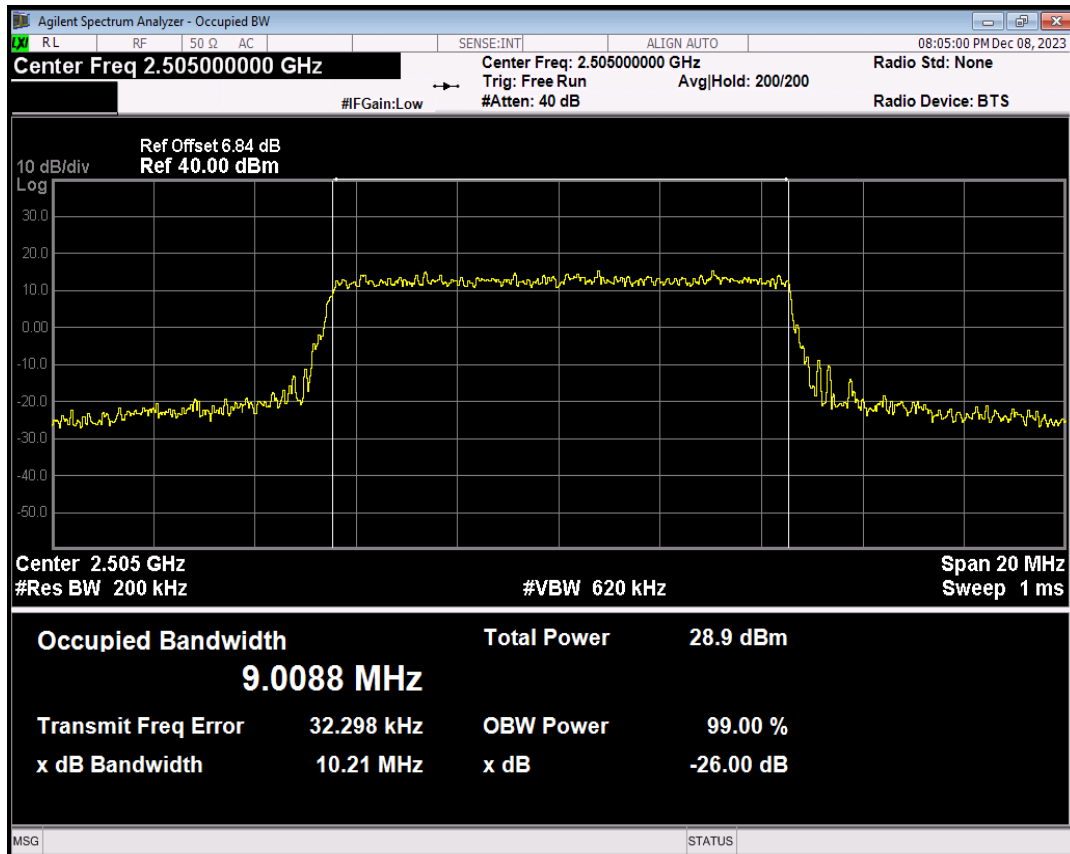
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



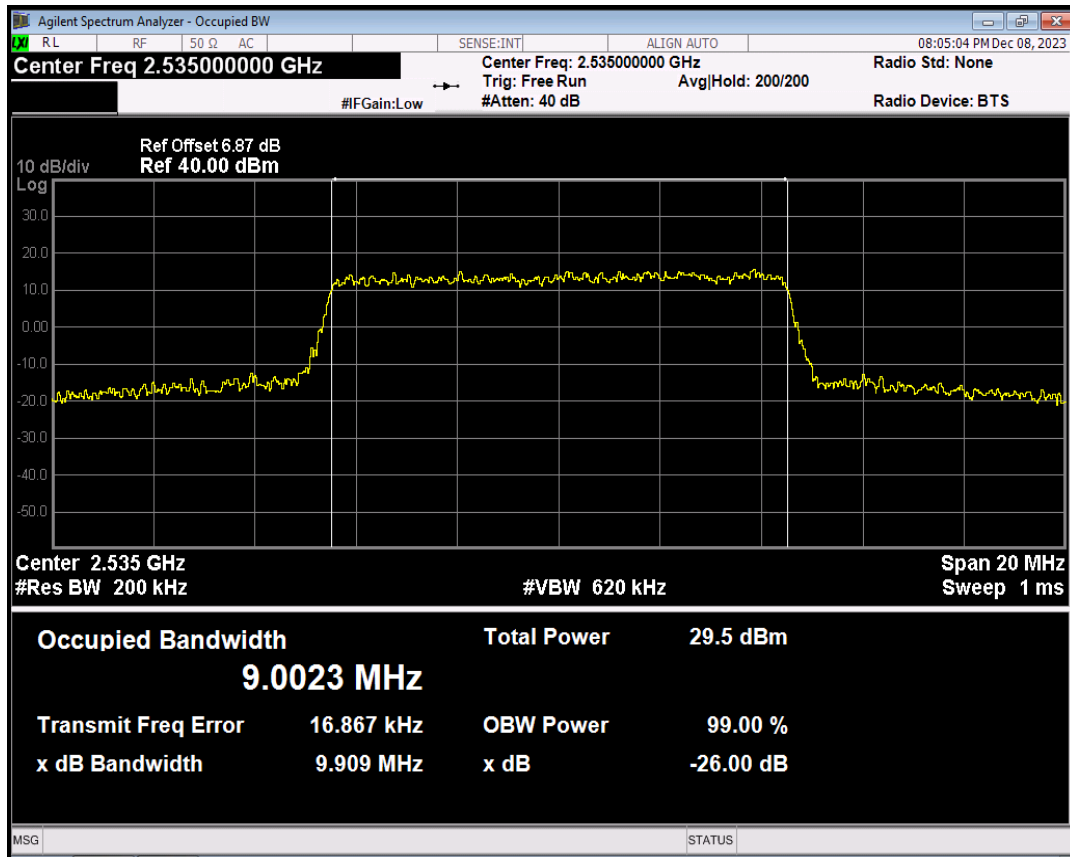
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



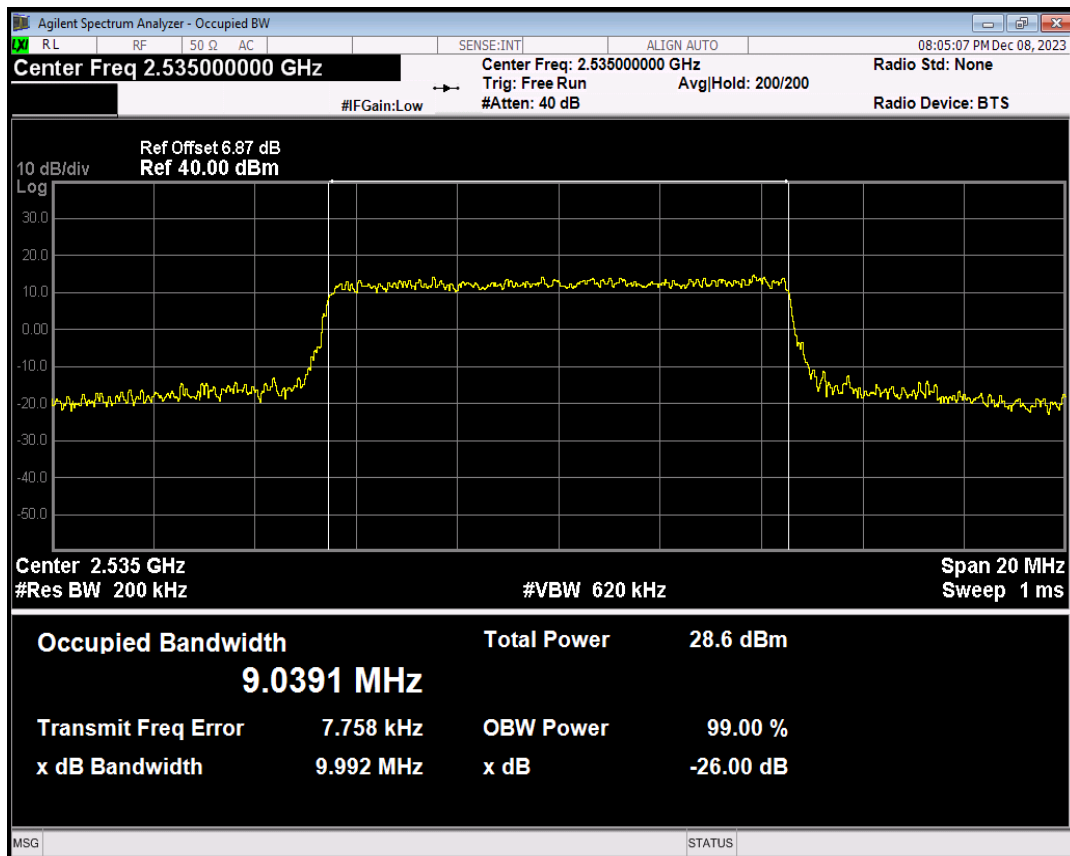
Band7 16QAM BW=10MHz Channel=20800 RB Size=50 Position=#0



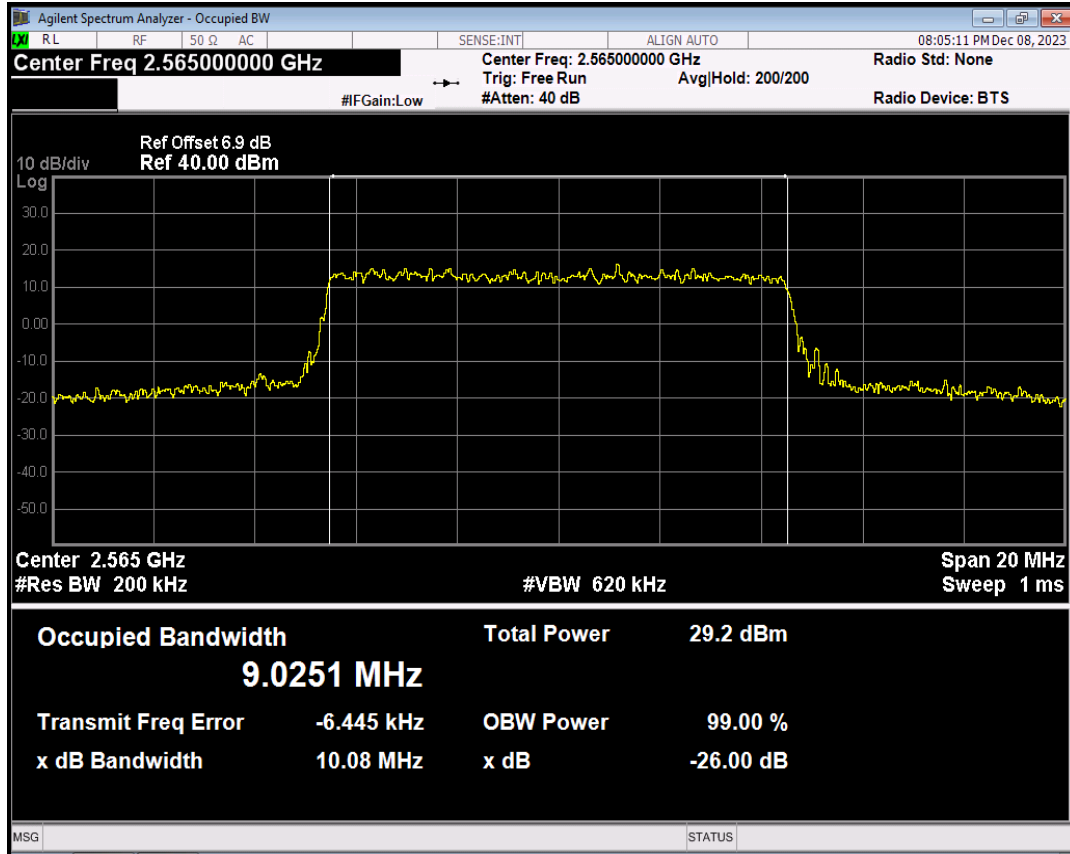
Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



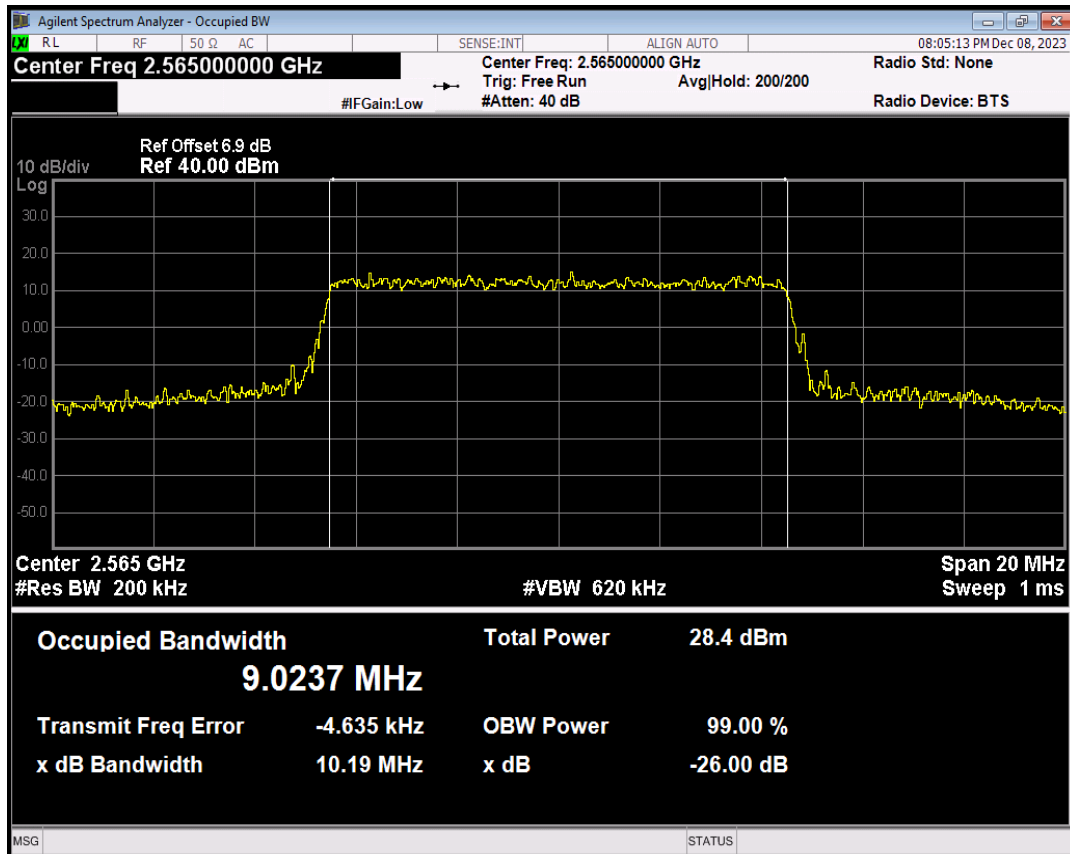
Band7 16QAM BW=10MHz Channel=21100 RB Size=50 Position=#0



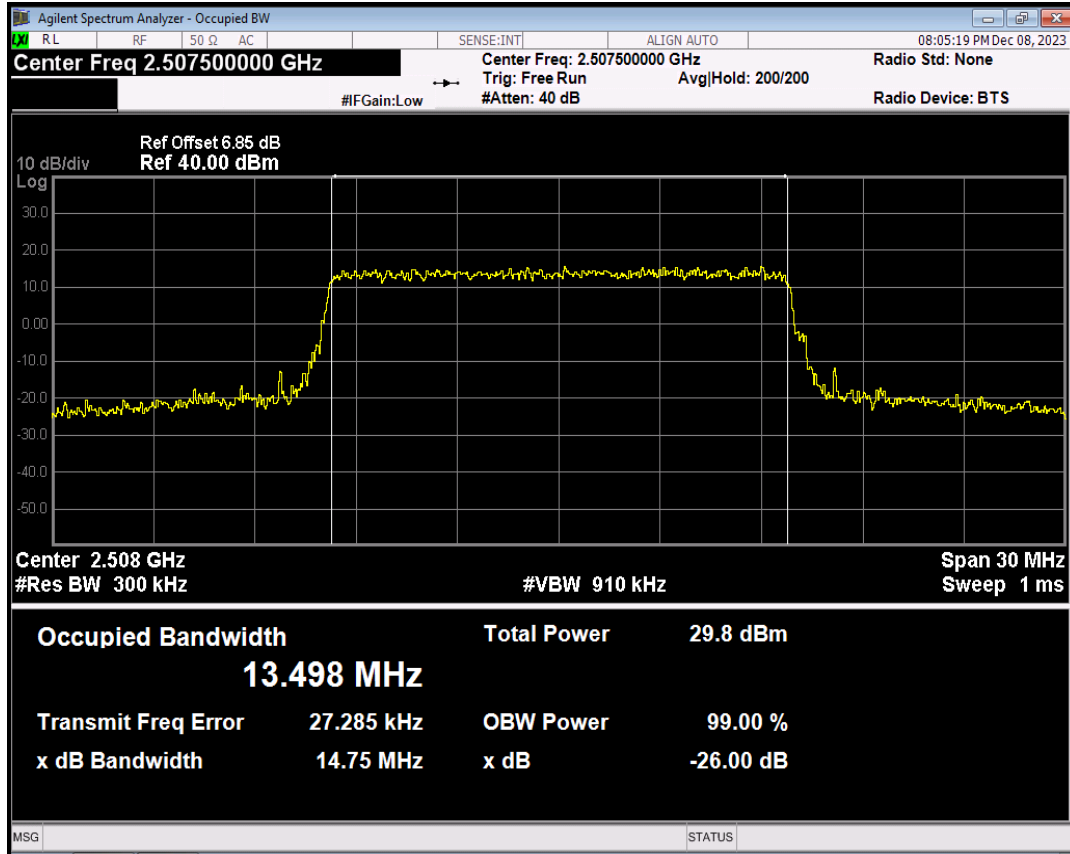
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



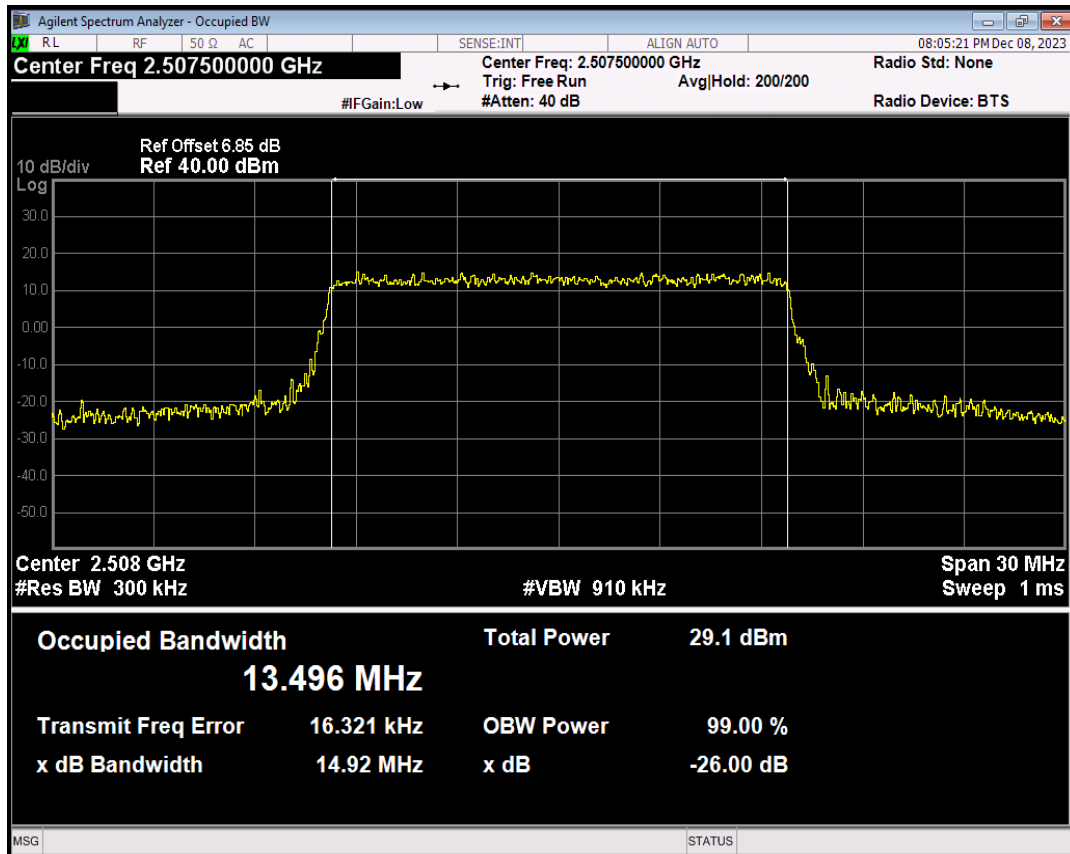
Band7 16QAM BW=10MHz Channel=21400 RB Size=50 Position=#0



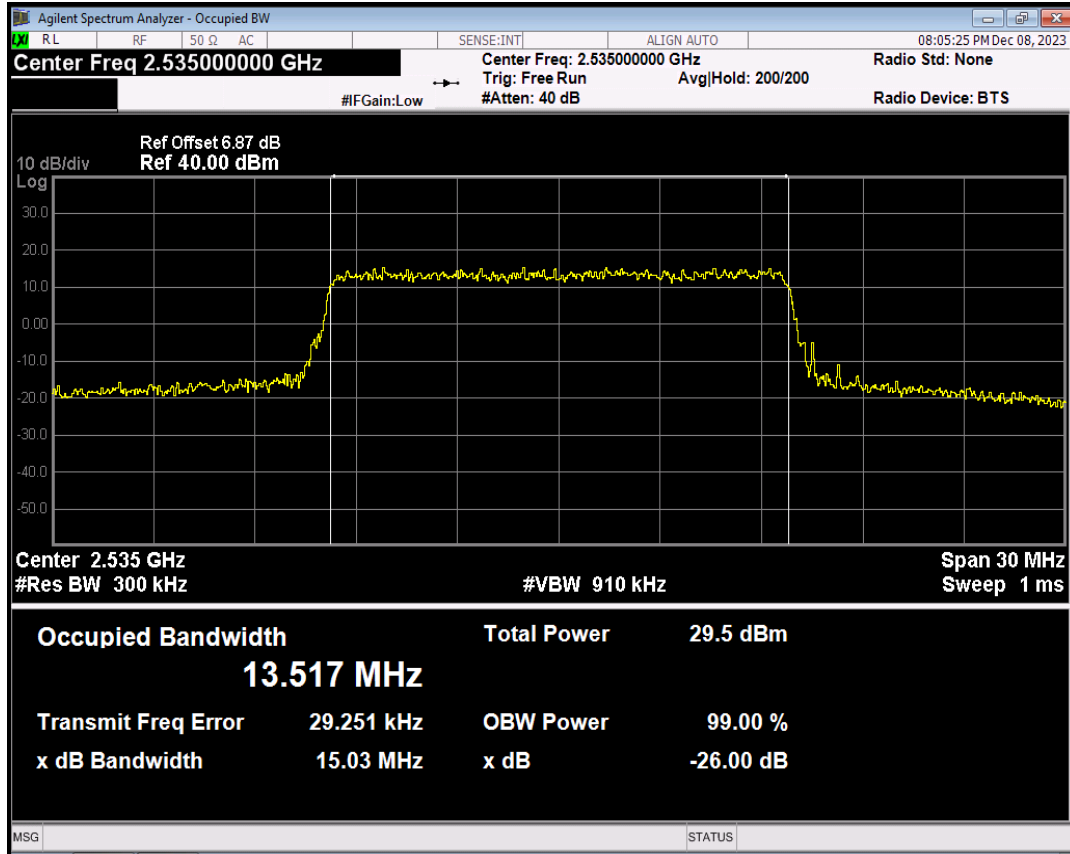
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



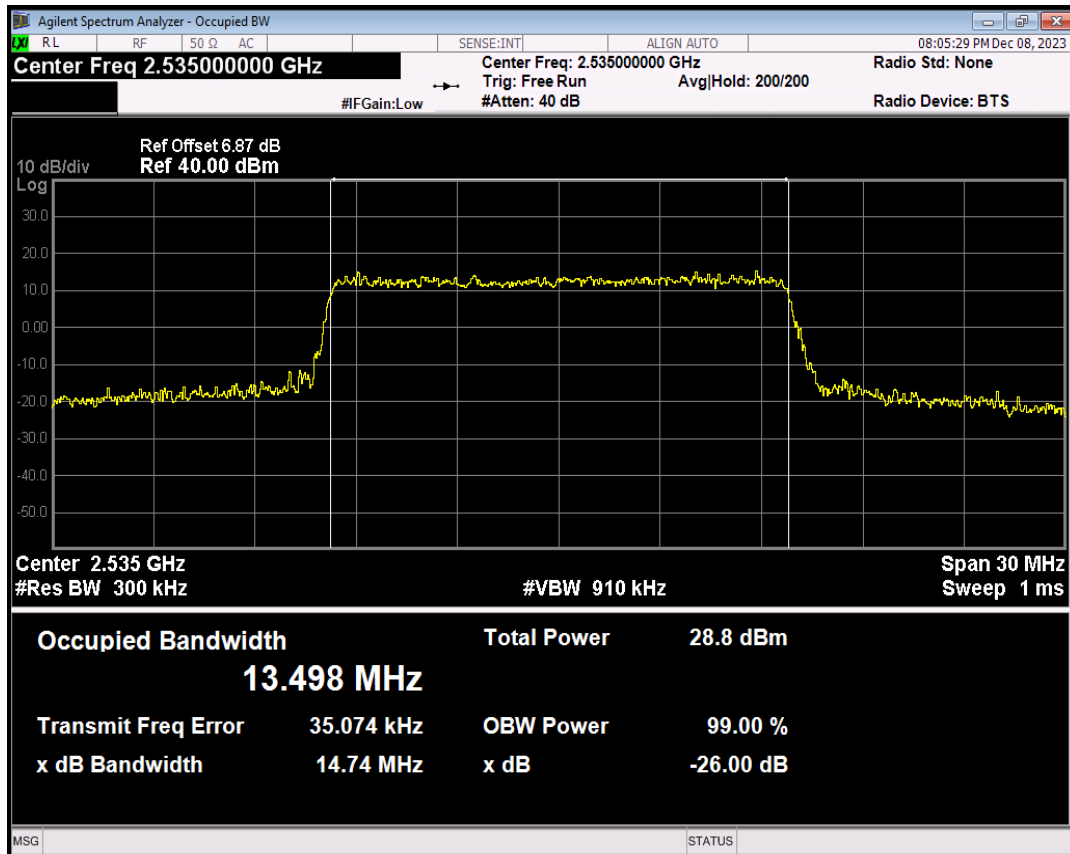
Band7 16QAM BW=15MHz Channel=20825 RB Size=75 Position=#0



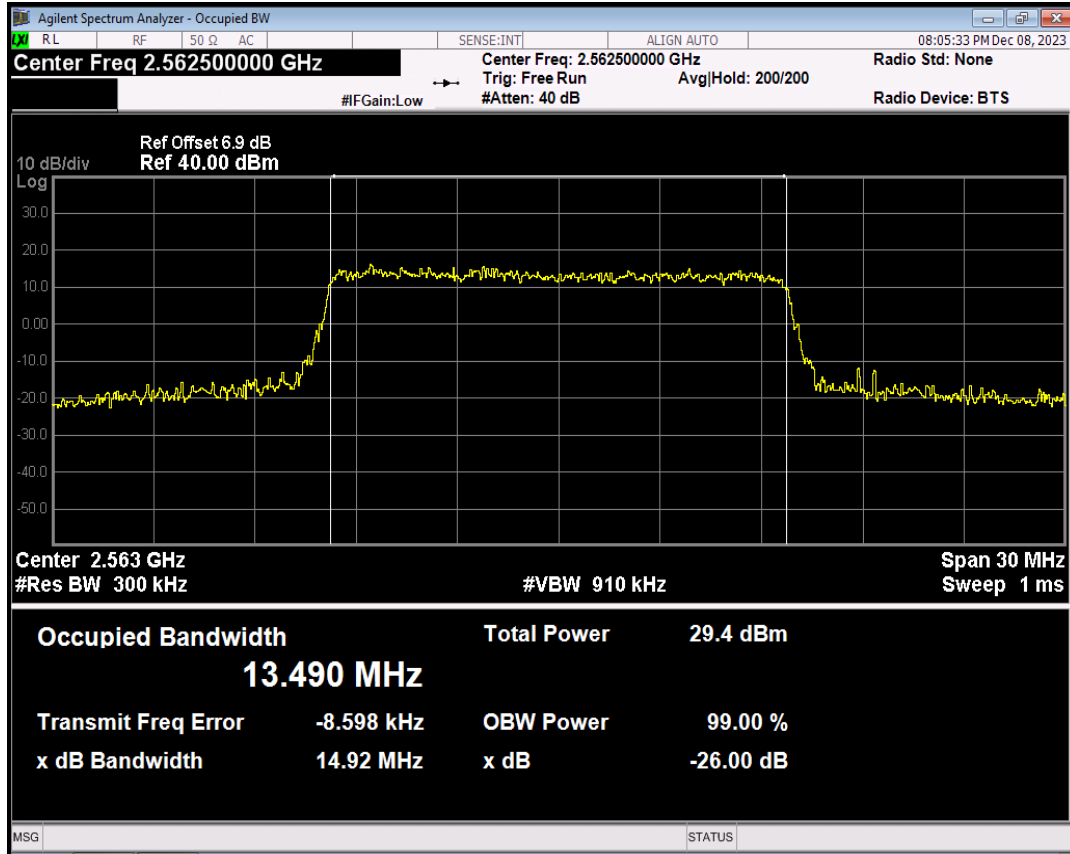
Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



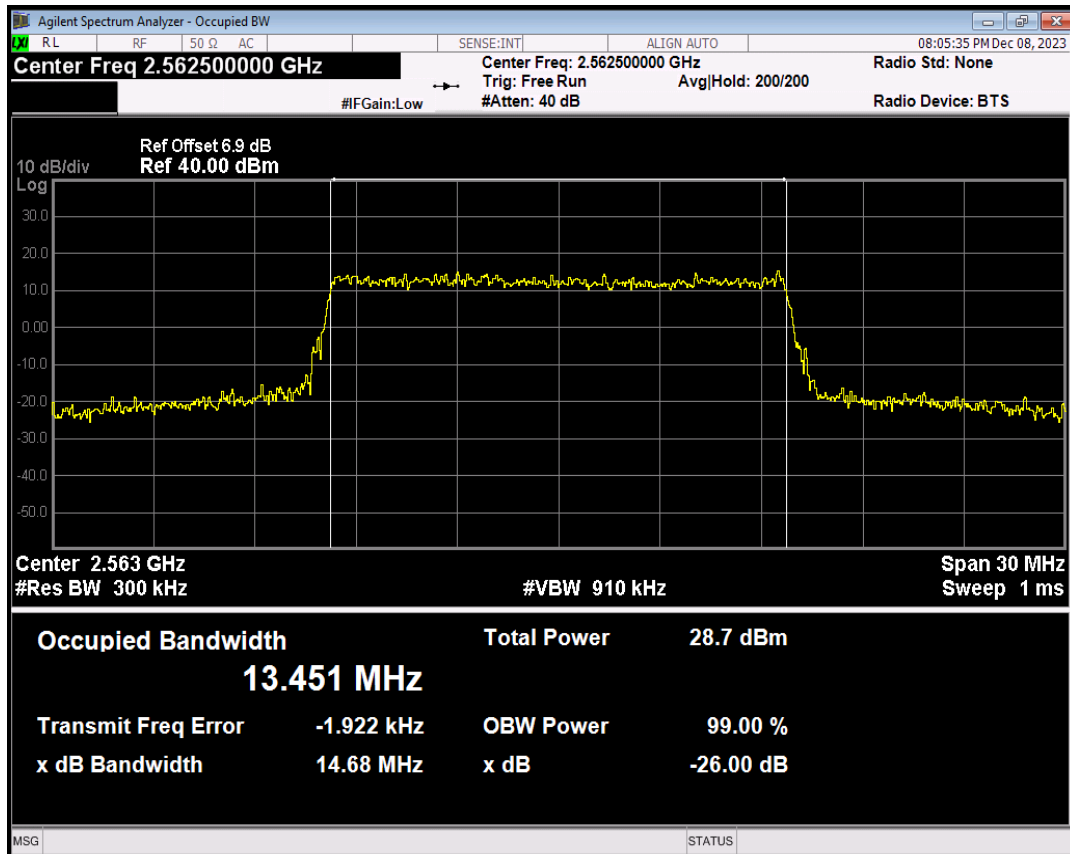
Band7 16QAM BW=15MHz Channel=21100 RB Size=75 Position=#0



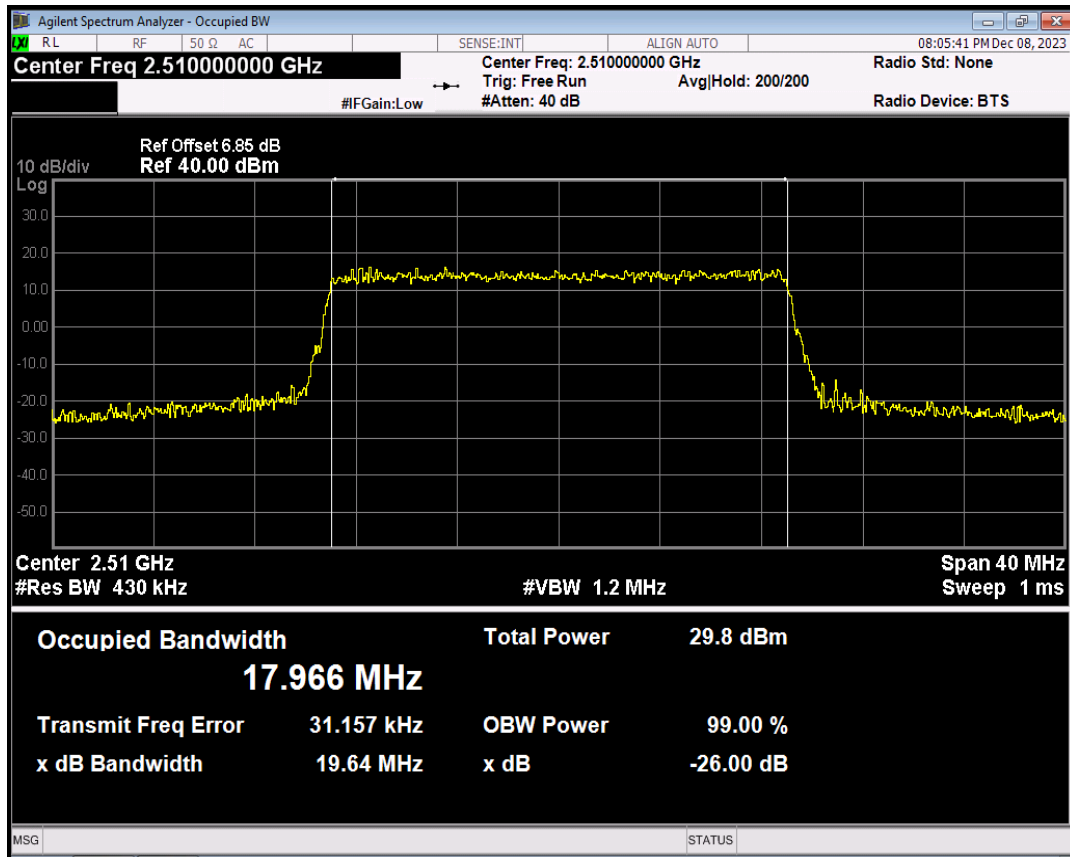
Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



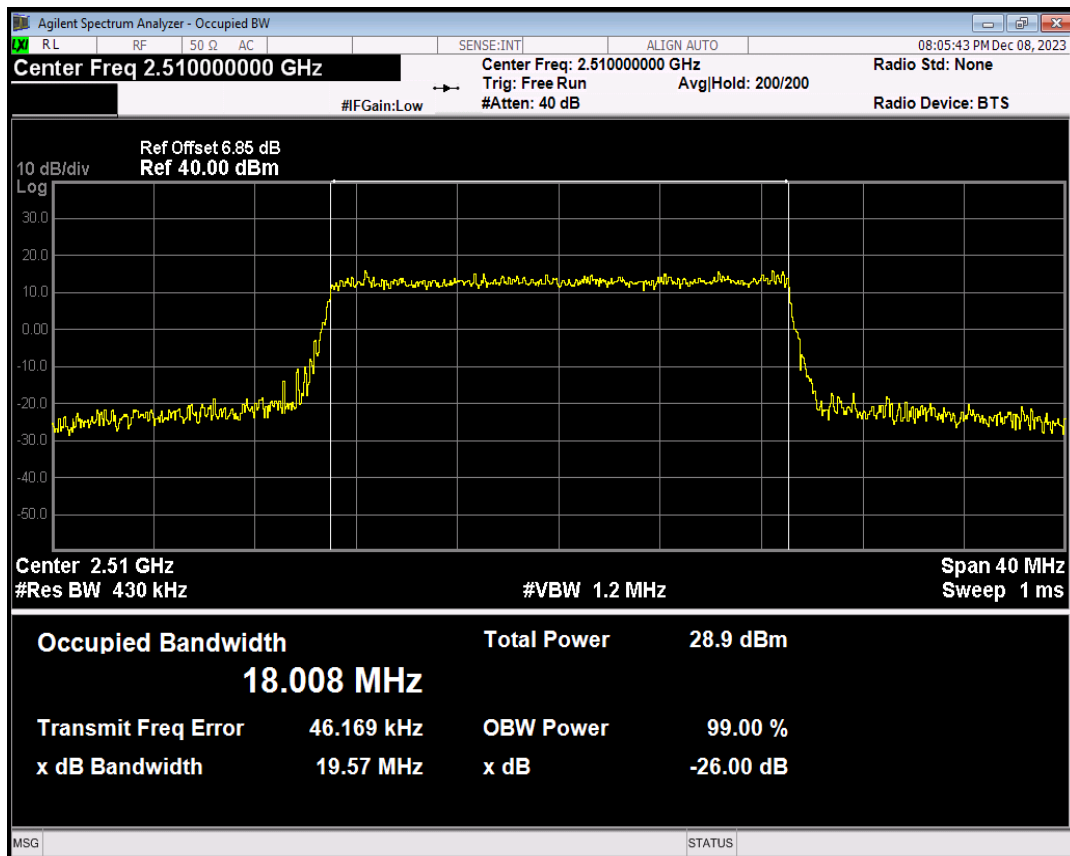
Band7 16QAM BW=15MHz Channel=21375 RB Size=75 Position=#0



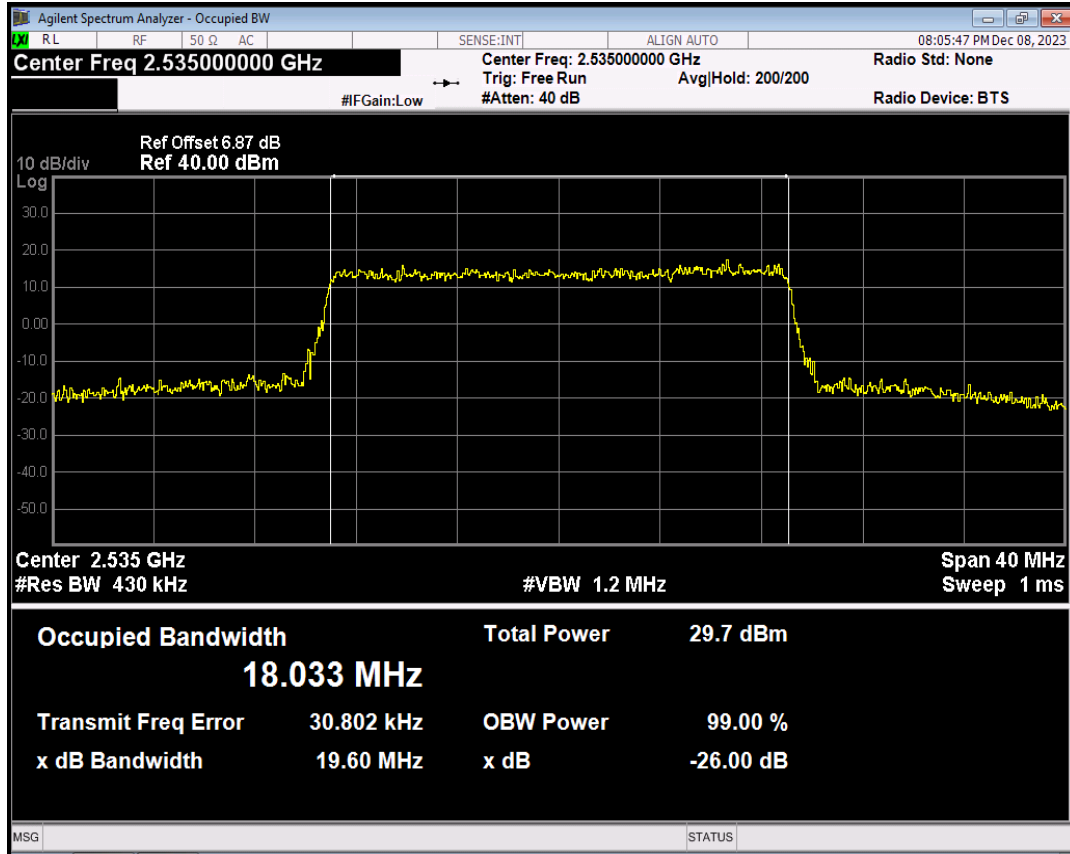
Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



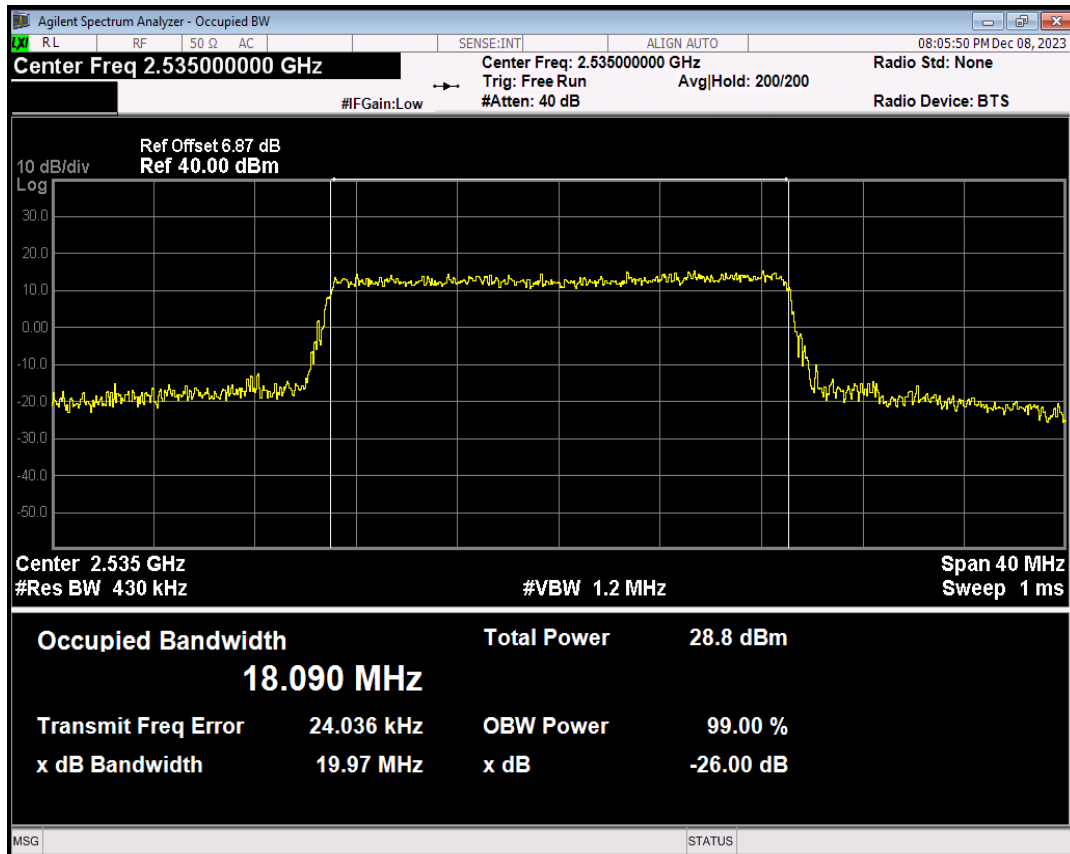
Band7 16QAM BW=20MHz Channel=20850 RB Size=100 Position=#0



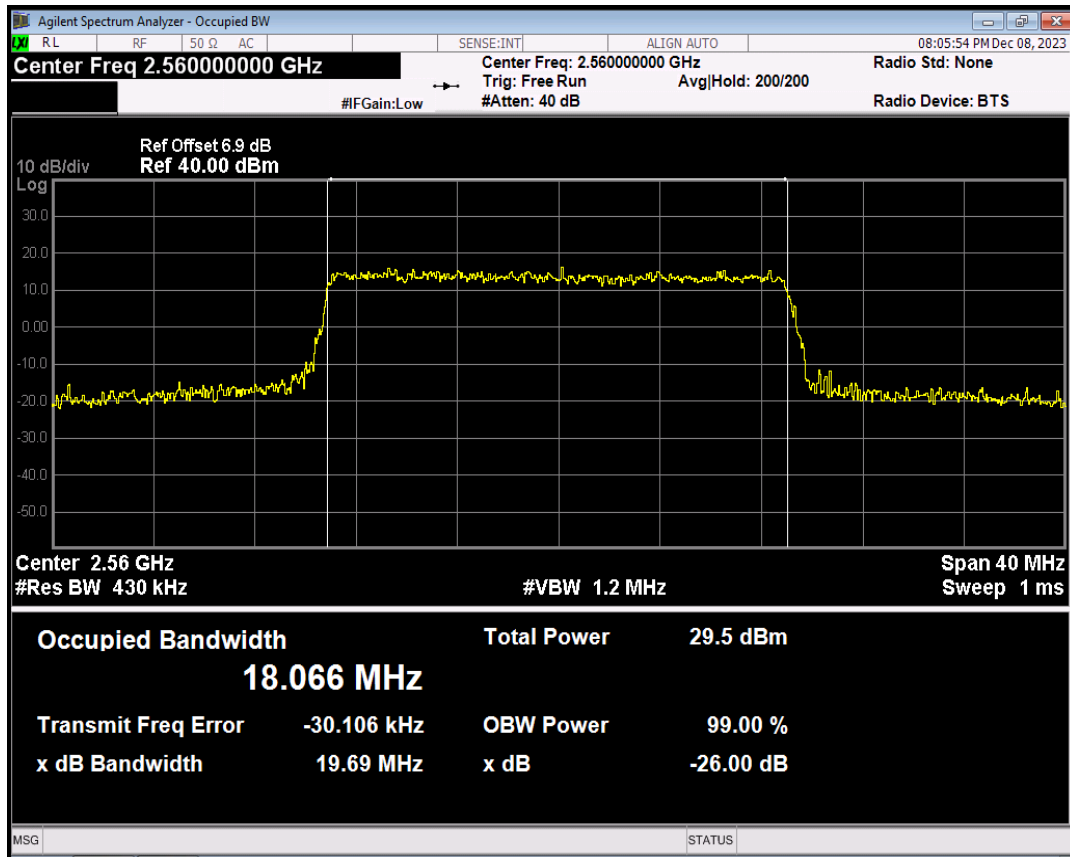
Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



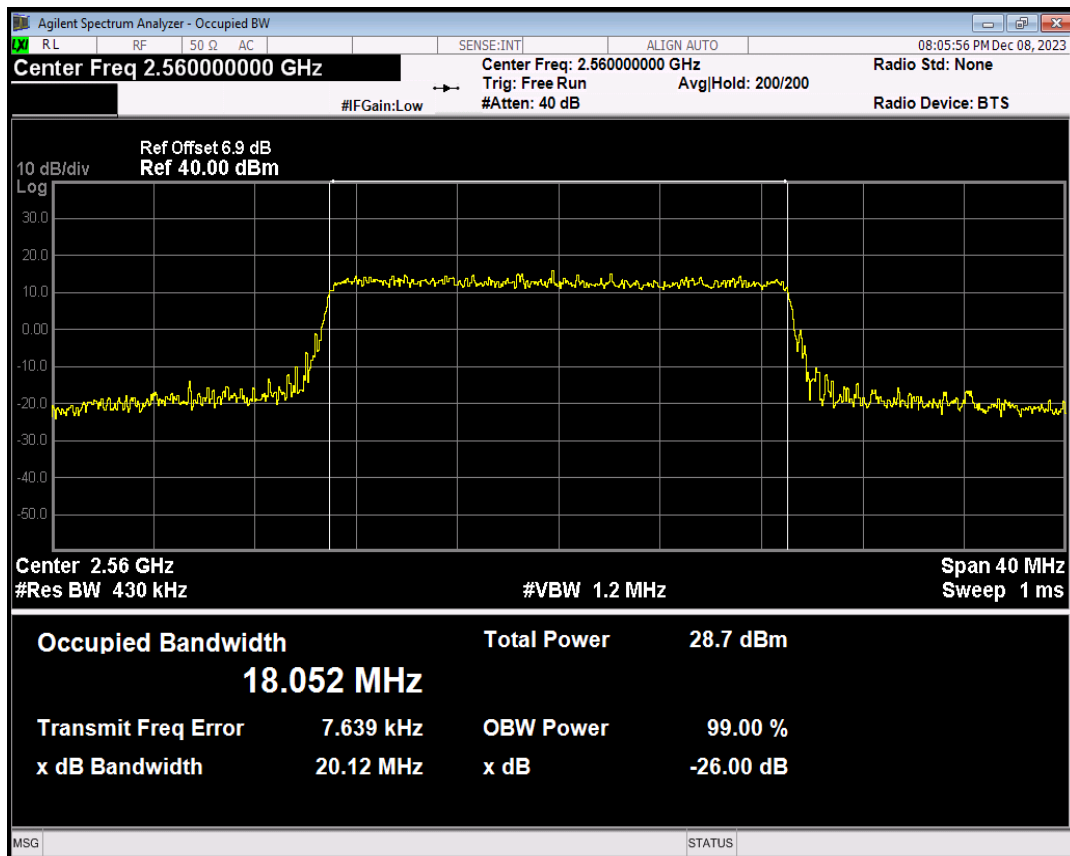
Band7 16QAM BW=20MHz Channel=21100 RB Size=100 Position=#0



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



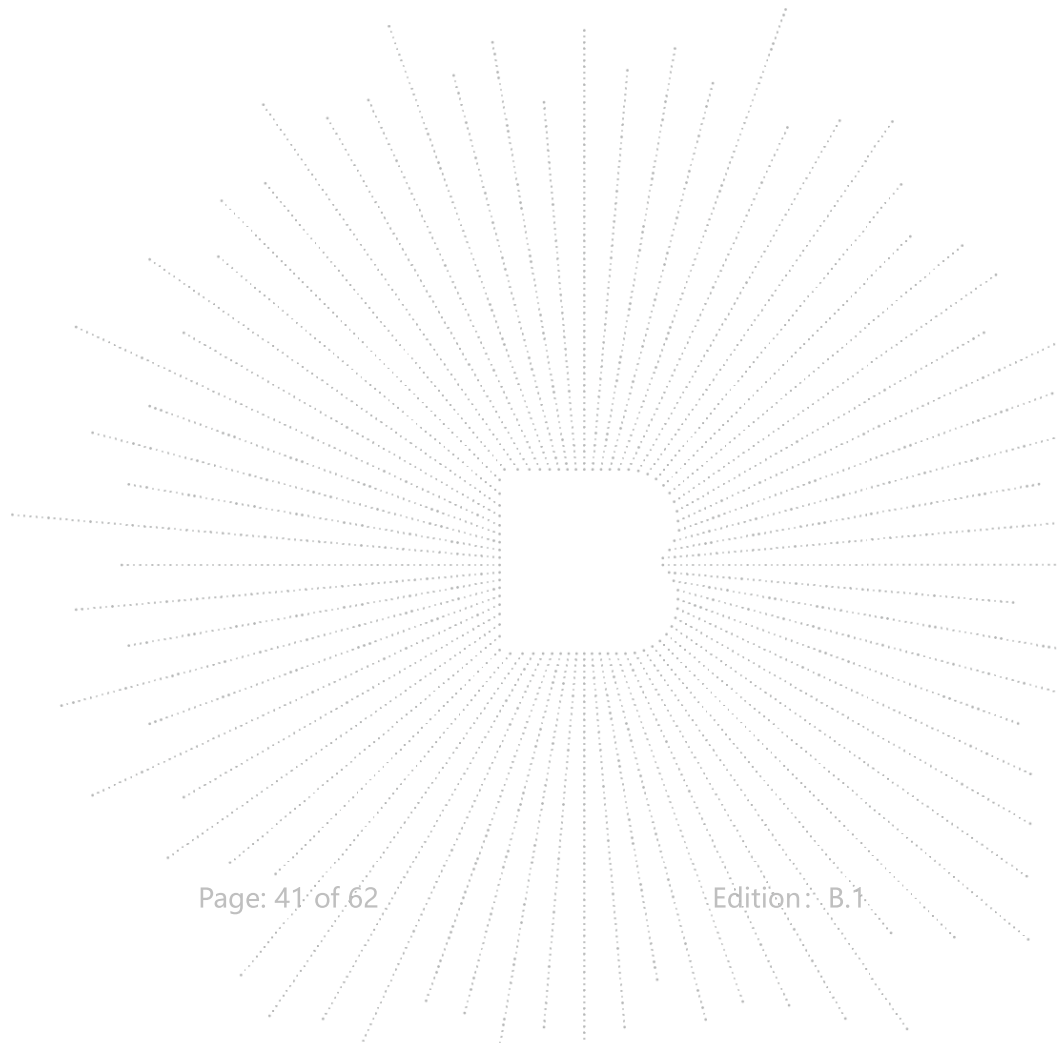
Band7 16QAM BW=20MHz Channel=21350 RB Size=100 Position=#0

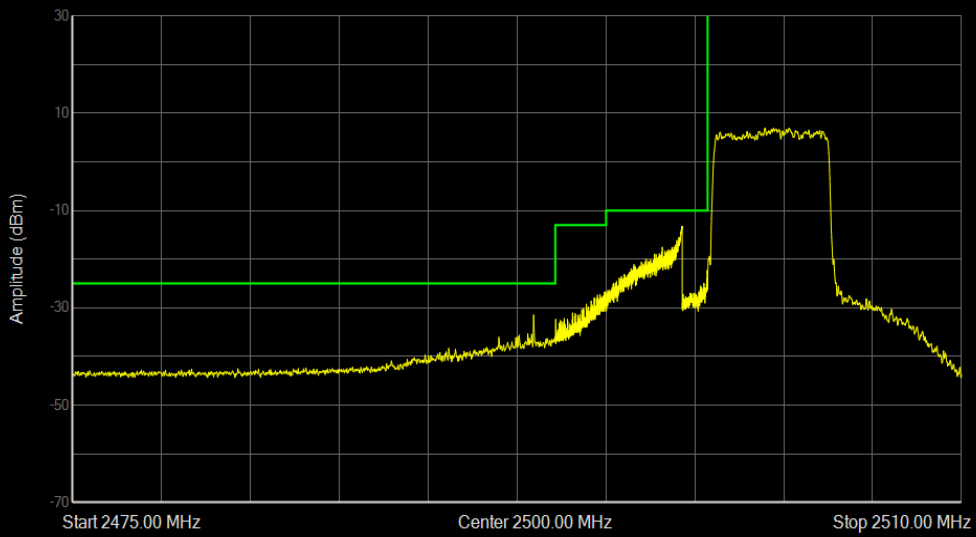


Appendix 5. Band edge

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	-13.25	-10	PASS
Band7	5	20775	25	#0	16QAM	2498.98	-14.56	-10	PASS
Band7	5	21425	25	#0	QPSK	2571.02	-11.60	-10	PASS
Band7	5	21425	25	#0	16QAM	2571.02	-13.69	-10	PASS
Band7	10	20800	50	#0	QPSK	2489.90	-36.04	-25	PASS
Band7	10	20800	50	#0	16QAM	2489.63	-37.21	-25	PASS
Band7	10	21400	50	#0	QPSK	2575.01	-21.06	-13	PASS
Band7	10	21400	50	#0	16QAM	2571.20	-19.28	-10	PASS
Band7	15	20825	75	#0	QPSK	2494.69	-24.60	-13	PASS
Band7	15	20825	75	#0	16QAM	2484.51	-38.27	-25	PASS
Band7	15	21375	75	#0	QPSK	2575.61	-22.09	-13	PASS
Band7	15	21375	75	#0	16QAM	2585.04	-36.74	-25	PASS
Band7	20	20850	100	#0	QPSK	2479.91	-39.67	-25	PASS
Band7	20	20850	100	#0	16QAM	2479.98	-40.49	-25	PASS
Band7	20	21350	100	#0	QPSK	2575.77	-24.17	-13	PASS
Band7	20	21350	100	#0	16QAM	2575.63	-26.21	-13	PASS

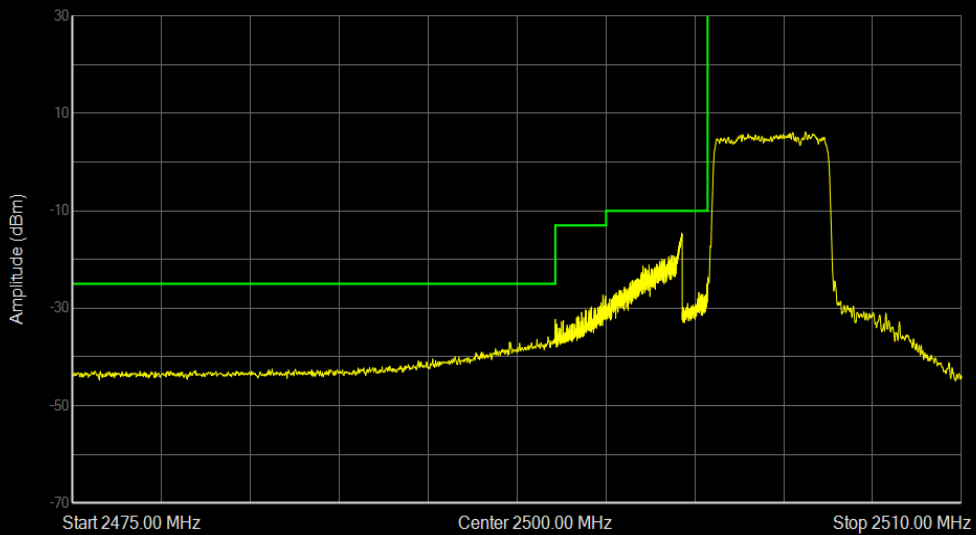
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0





Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2494	1000	2493.145	-31.47	-25
2	2494	2496	1000	2495.948	-26.69	-13
3	2496	2499	1000	2499	-13.25	-10
4	2499	2500	100	2499.983	-22.32	-10

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



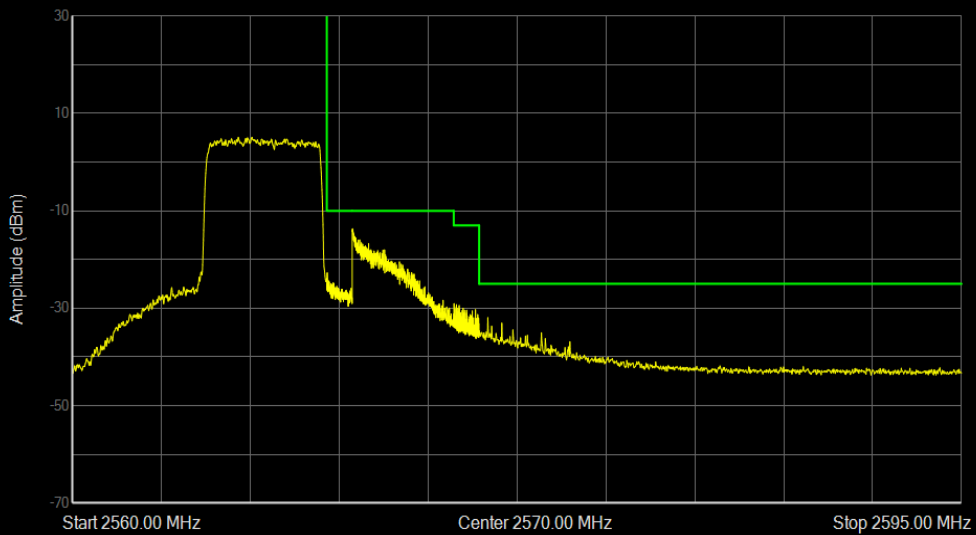
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2494	1000	2494	-32.3	-25
2	2494	2496	1000	2495.876	-27.3	-13
3	2496	2499	1000	2498.979	-14.56	-10
4	2499	2500	100	2499.974	-25.02	-10

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



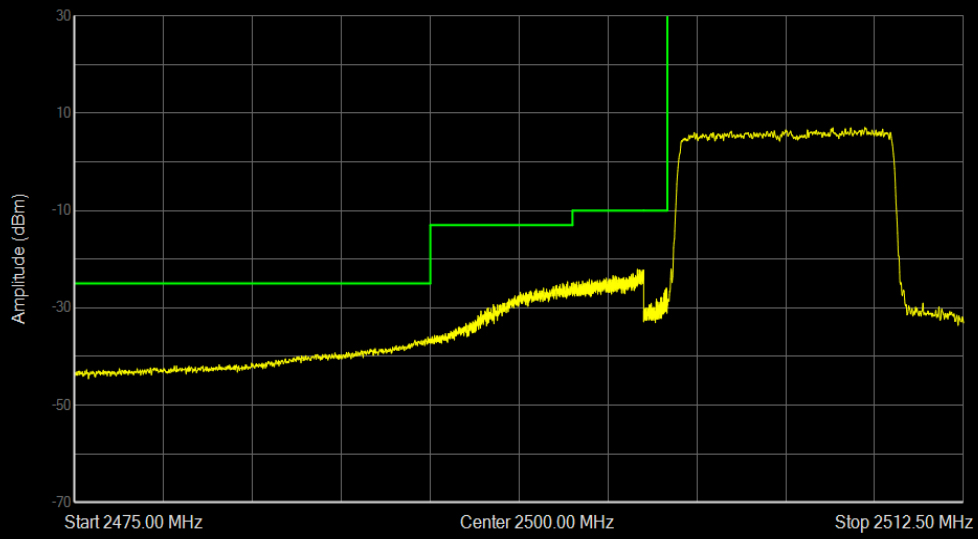
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2570	2571	100	2570.001	-21.29	-10
2	2571	2575	1000	2571.016	-11.6	-10
3	2575	2576	1000	2575.013	-30.21	-13
4	2576	2595	1000	2576.703	-33.11	-25

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



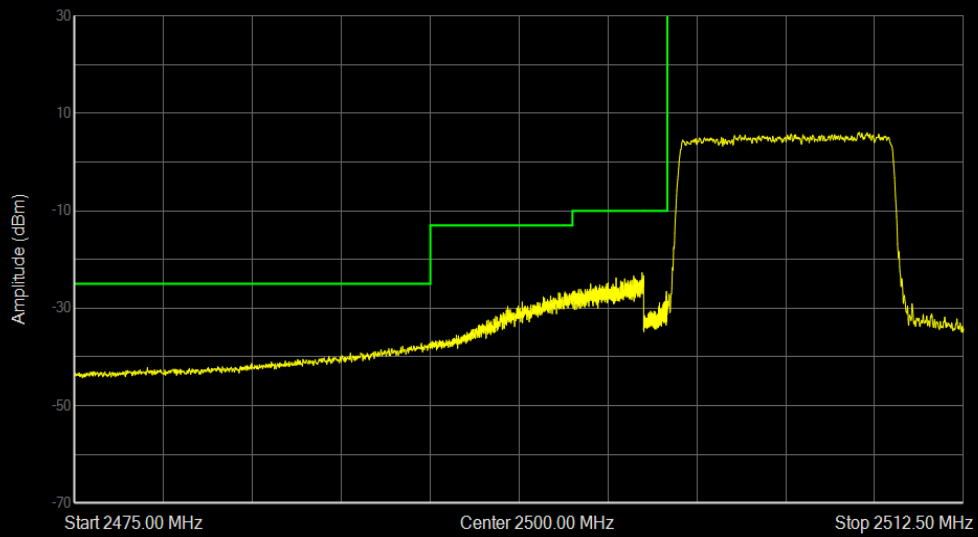
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2570	2571	100	2570.017	-22.73	-10
2	2571	2575	1000	2571.016	-13.69	-10
3	2575	2576	1000	2575.013	-29.05	-13
4	2576	2595	1000	2576.342	-31.93	-25

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	2489.895	-36.04	-25
2	2490	2496	1000	2495.79	-24.62	-13
3	2496	2499	1000	2498.736	-22.09	-10
4	2499	2500	200	2499.98	-25.98	-10

Band7 16QAM 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	2489.625	-37.21	-25
2	2490	2496	1000	2495.682	-26.68	-13
3	2496	2499	1000	2498.937	-22.72	-10
4	2499	2500	200	2499.963	-26.55	-10

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



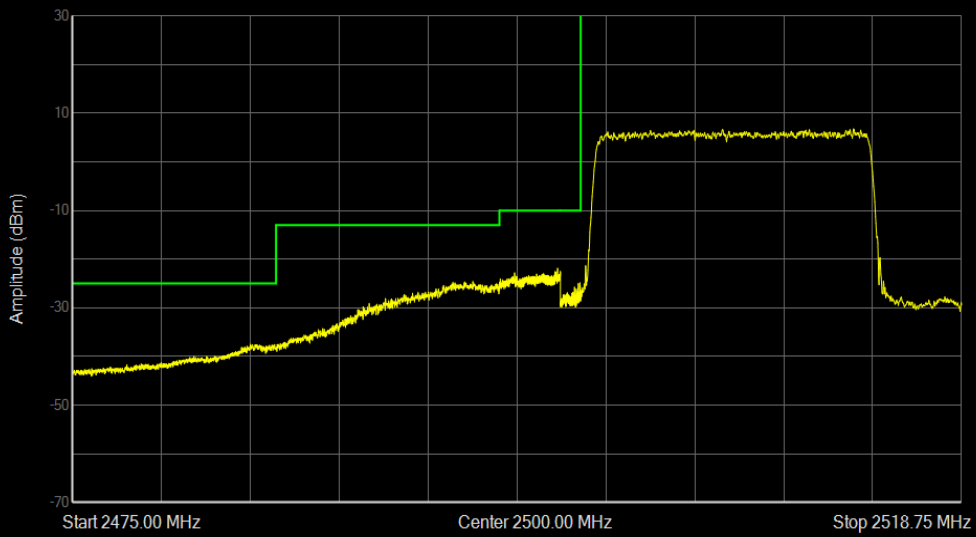
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2570	2571	200	2570.027	-22.93	-10
2	2571	2575	1000	2571.68	-18.12	-10
3	2575	2580	1000	2575.01	-21.06	-13
4	2580	2595	1000	2580.12	-33.71	-25

Band7 16QAM 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	2570.035	-24.4	-10
2	2571	2575	1000	2571.204	-19.28	-10
3	2575	2580	1000	2575.27	-23.28	-13
4	2580	2595	1000	2580.015	-34.48	-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	2483.73	-37.49	-25
2	2485	2496	1000	2494.691	-24.6	-13
3	2496	2499	1000	2498.862	-21.87	-10
4	2499	2500	300	2499.962	-24.85	-10

Band7 16QAM 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	2484.51	-38.27	-25
2	2485	2496	1000	2495.791	-26.51	-13
3	2496	2499	1000	2498.904	-24.42	-10
4	2499	2500	300	2499.996	-26.44	-10

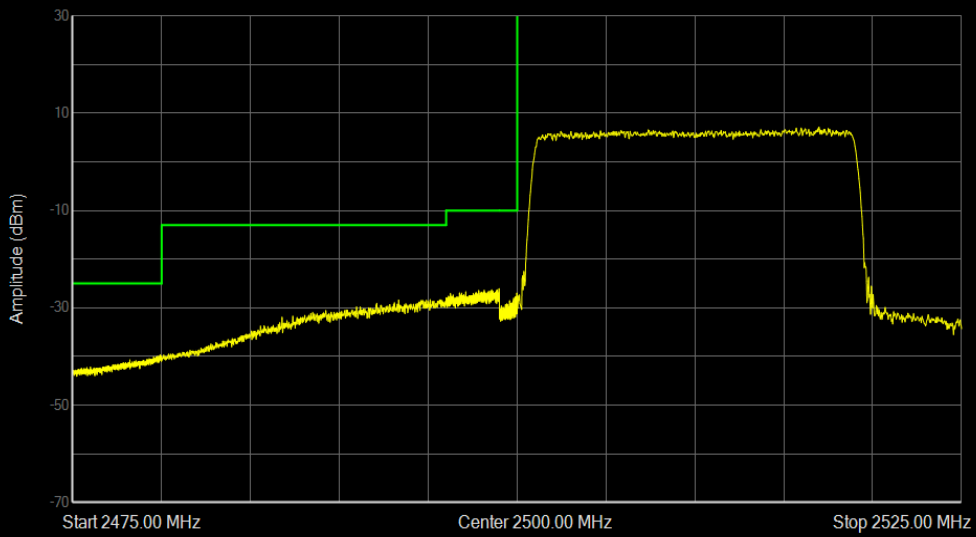
Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



Band7 16QAM BW=15MHz Channel=21375 RB Size=75 Position=#0



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	2479.905	-39.67	-25
2	2480	2496	1000	2496	-27.92	-13
3	2496	2499	1000	2498.976	-26.07	-10
4	2499	2500	430	2499.976	-26.96	-10

Band7 16QAM BW=20MHz Channel=20850 RB Size=100 Position=#0



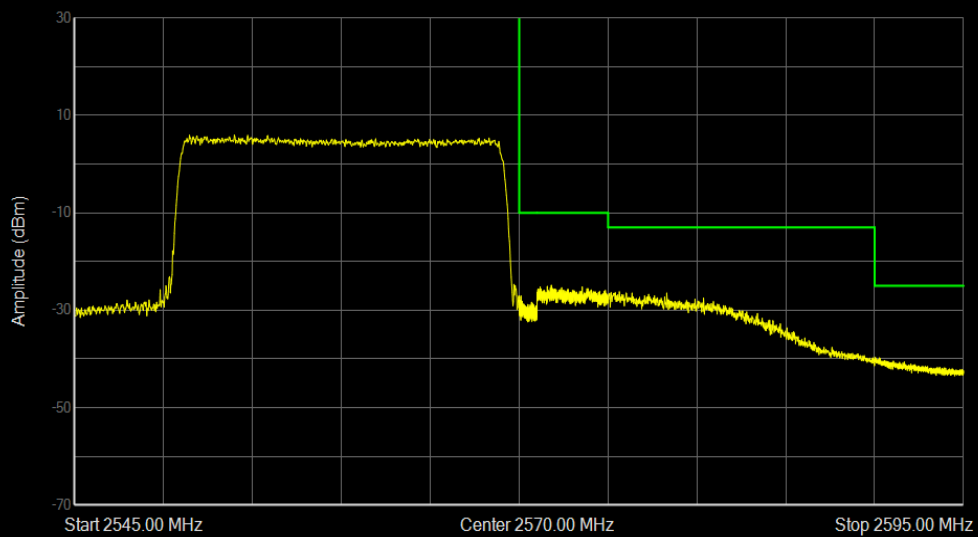
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2480	1000	2479.975	-40.49	-25
2	2480	2496	1000	2494.944	-29.59	-13
3	2496	2499	1000	2498.361	-27.44	-10
4	2499	2500	430	2500	-27.66	-10

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	2570.065	-25	-10
2	2571	2575	1000	2571.872	-23.31	-10
3	2575	2590	1000	2575.765	-24.17	-13
4	2590	2595	1000	2590.15	-39.56	-25

Band7 16QAM BW=20MHz Channel=21350 RB Size=100 Position=#0

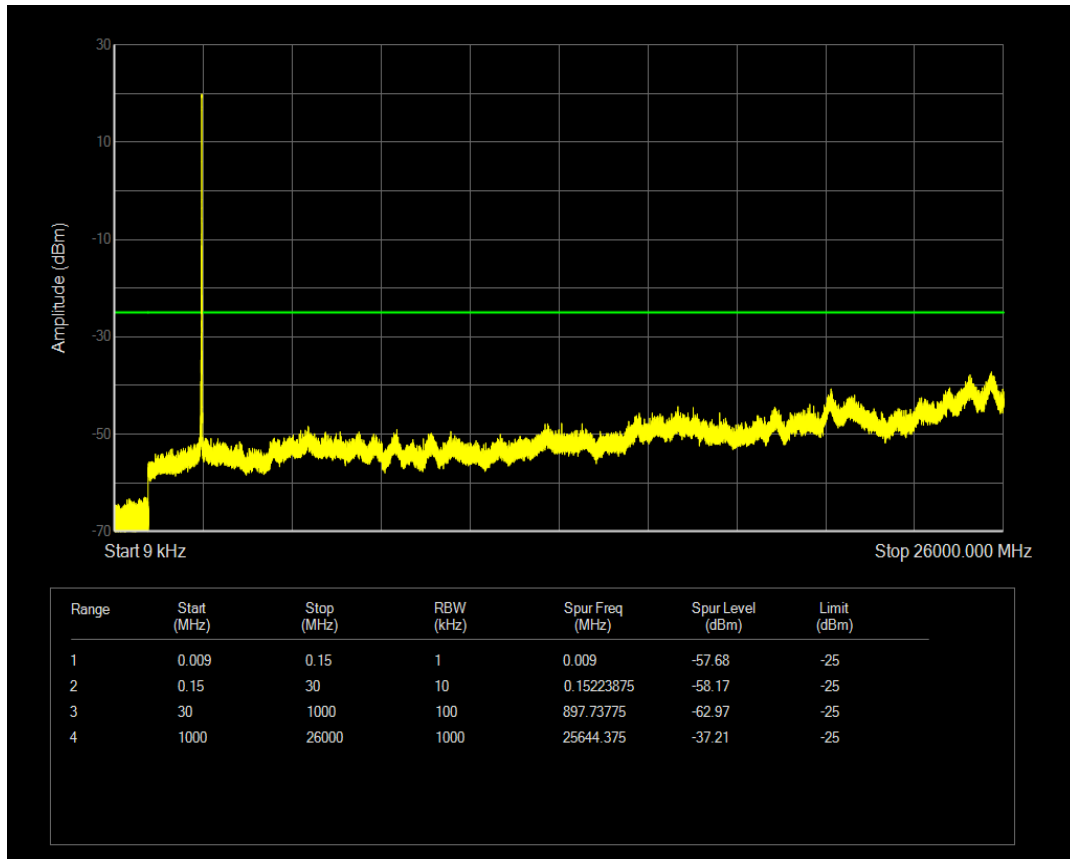


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2570	2571	430	2570.099	-27.06	-10
2	2571	2575	1000	2571.804	-24.87	-10
3	2575	2590	1000	2575.63	-26.21	-13
4	2590	2595	1000	2590.03	-39.73	-25

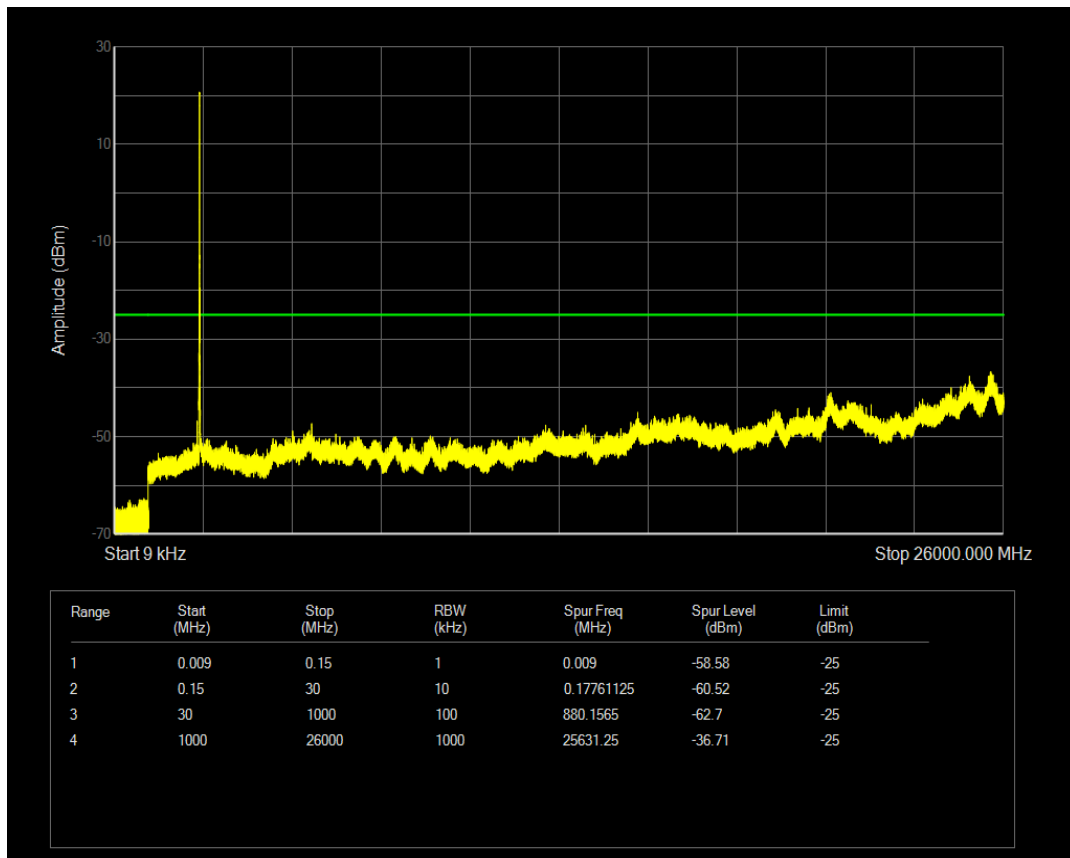
Appendix 6. Out-of-band emissions

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	25631.25	-36.71	-25	PASS
Band7	5	20775	25	#0	16QAM	25645.00	-37.29	-25	PASS
Band7	5	21100	25	#0	QPSK	25649.38	-37.12	-25	PASS
Band7	5	21100	25	#0	16QAM	25676.25	-37.19	-25	PASS
Band7	5	21425	25	#0	QPSK	25644.38	-37.21	-25	PASS
Band7	5	21425	25	#0	16QAM	25019.38	-37.50	-25	PASS
Band7	10	20800	50	#0	QPSK	25675.63	-35.88	-25	PASS
Band7	10	20800	50	#0	16QAM	25599.38	-36.93	-25	PASS
Band7	10	21100	50	#0	QPSK	25595.00	-36.94	-25	PASS
Band7	10	21100	50	#0	16QAM	25638.75	-36.77	-25	PASS
Band7	10	21400	50	#0	QPSK	25701.25	-36.85	-25	PASS
Band7	10	21400	50	#0	16QAM	25715.00	-37.17	-25	PASS
Band7	15	20825	75	#0	QPSK	25710.63	-37.11	-25	PASS
Band7	15	20825	75	#0	16QAM	25559.38	-37.49	-25	PASS
Band7	15	21100	75	#0	QPSK	25590.63	-37.05	-25	PASS
Band7	15	21100	75	#0	16QAM	25656.88	-36.57	-25	PASS
Band7	15	21375	75	#0	QPSK	25630.63	-36.53	-25	PASS
Band7	15	21375	75	#0	16QAM	25635.00	-37.11	-25	PASS
Band7	20	20850	100	#0	QPSK	25555.00	-37.10	-25	PASS
Band7	20	20850	100	#0	16QAM	25565.00	-36.71	-25	PASS
Band7	20	21100	100	#0	QPSK	25636.88	-37.23	-25	PASS
Band7	20	21100	100	#0	16QAM	25675.00	-36.64	-25	PASS
Band7	20	21350	100	#0	QPSK	25624.38	-37.72	-25	PASS
Band7	20	21350	100	#0	16QAM	25621.88	-37.11	-25	PASS

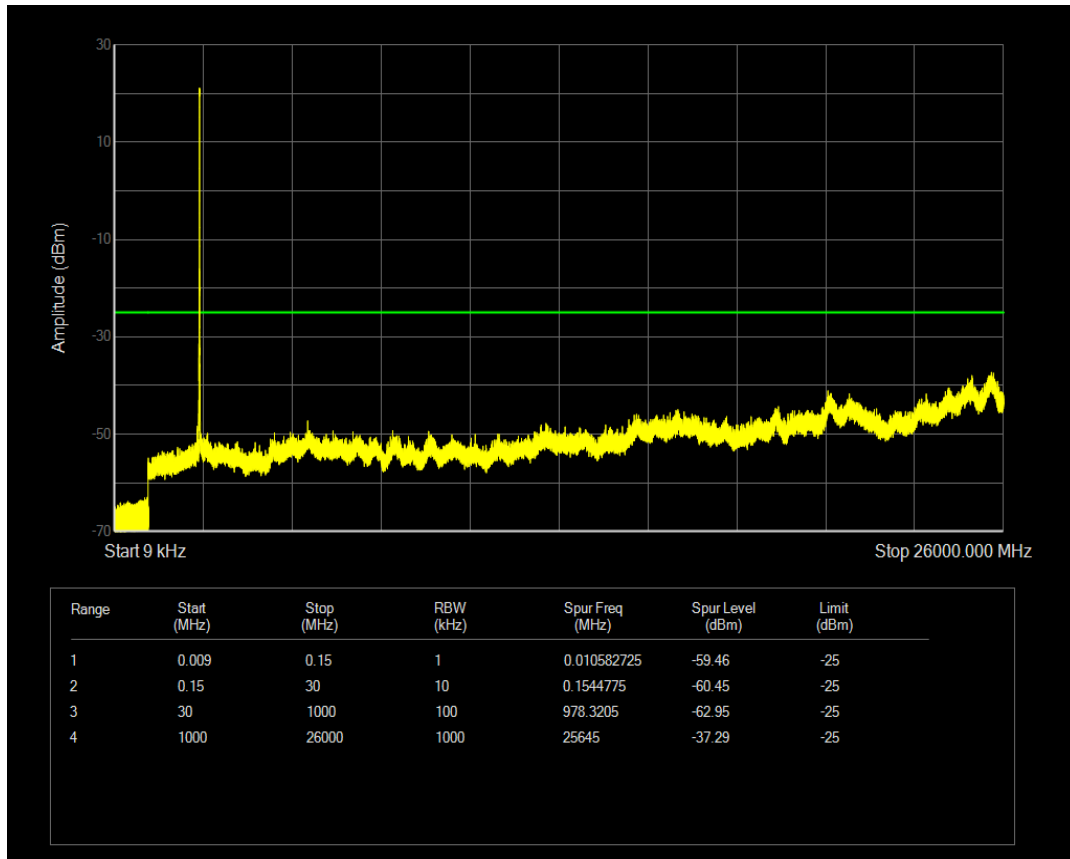
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



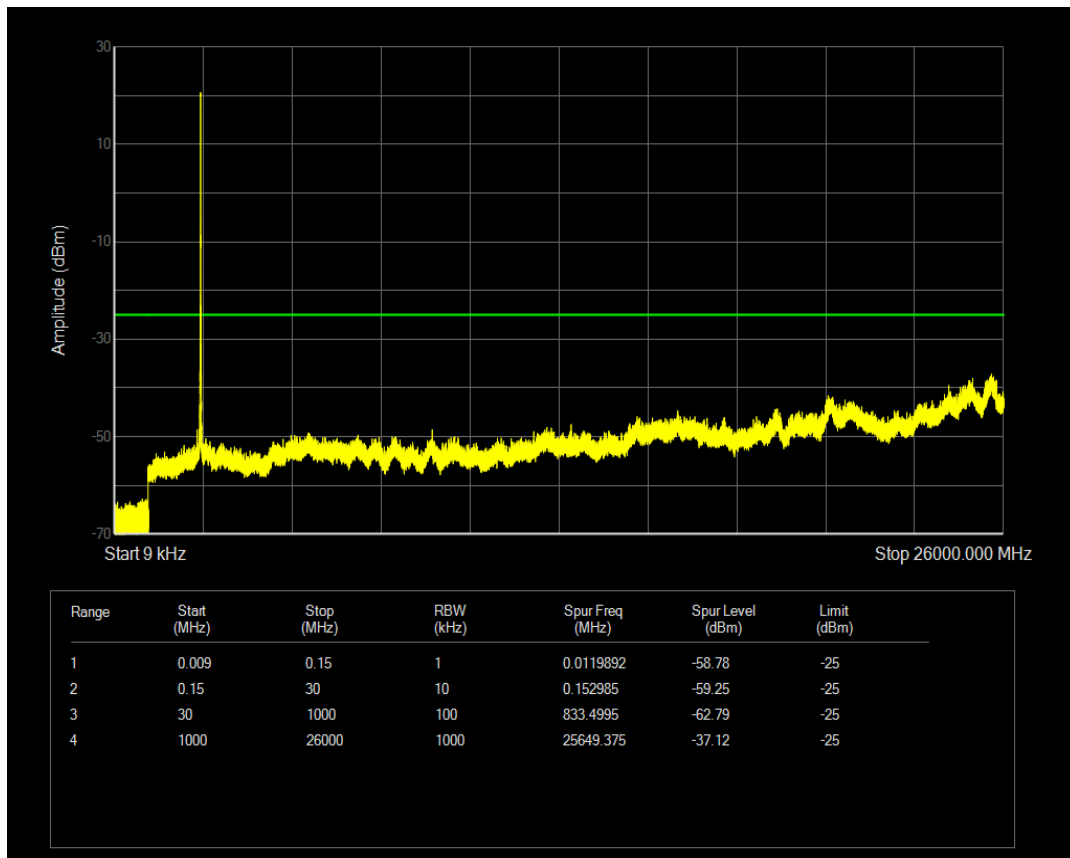
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



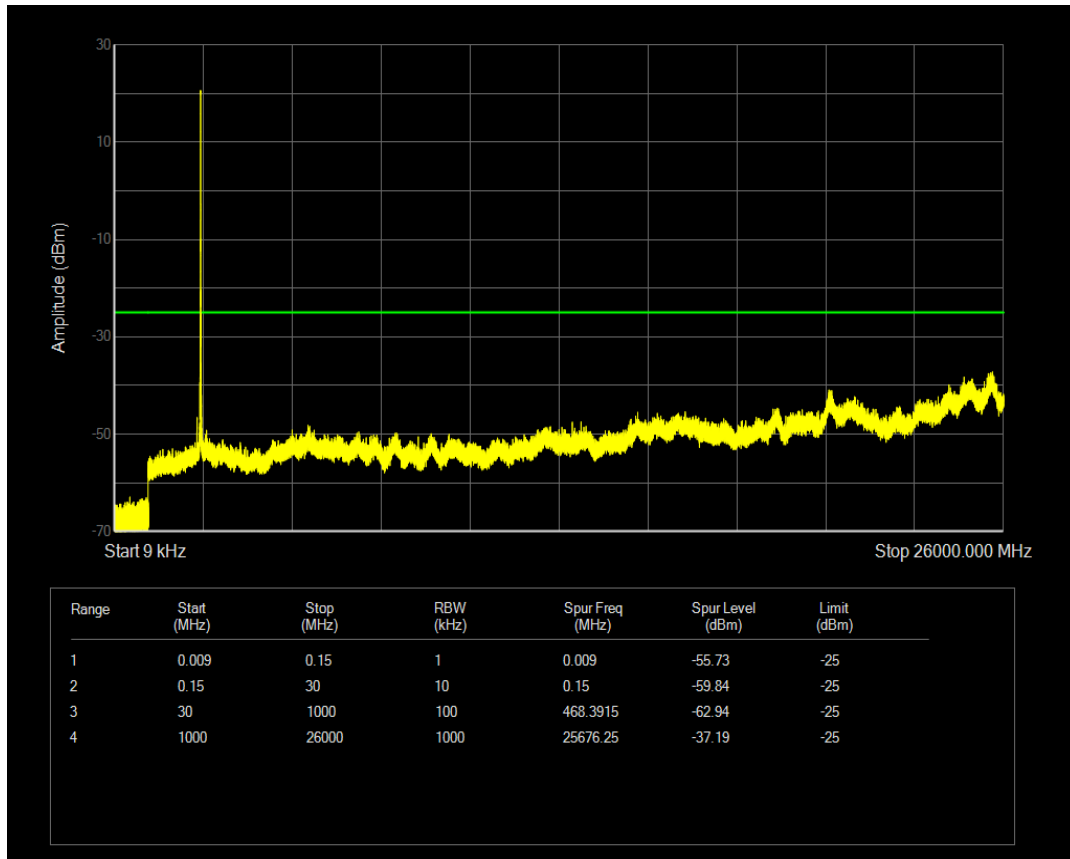
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



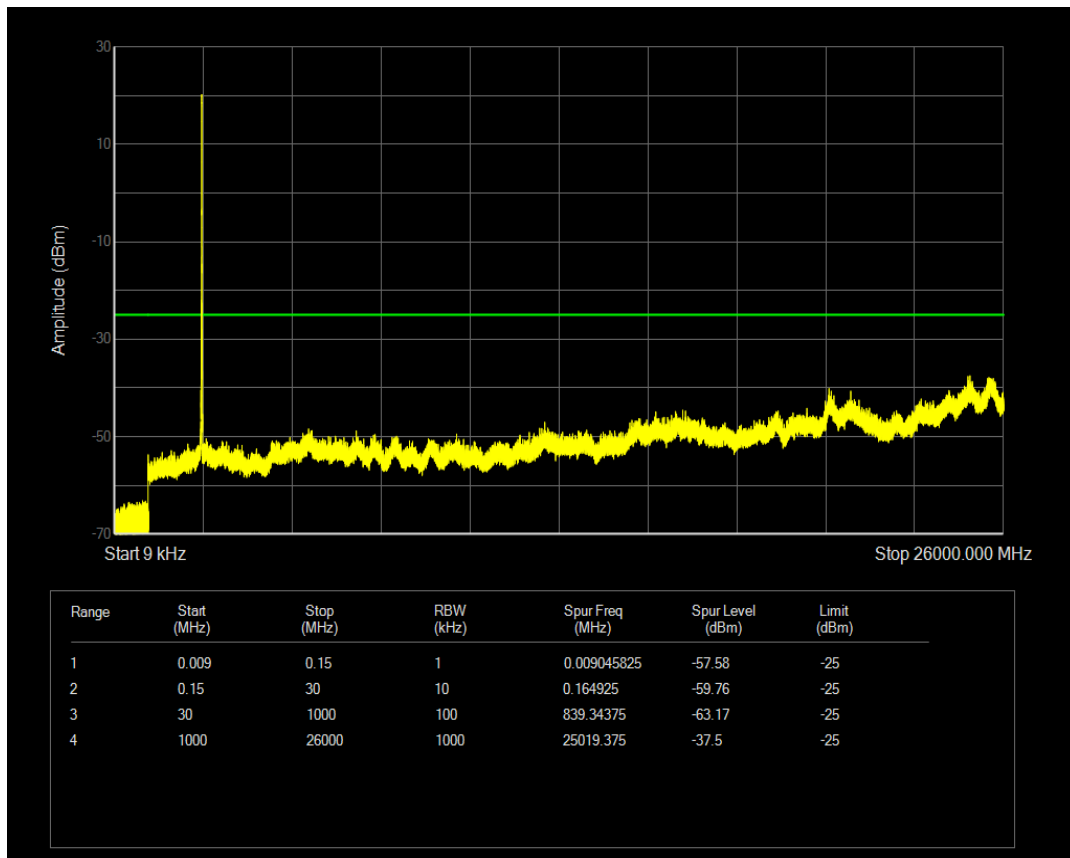
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



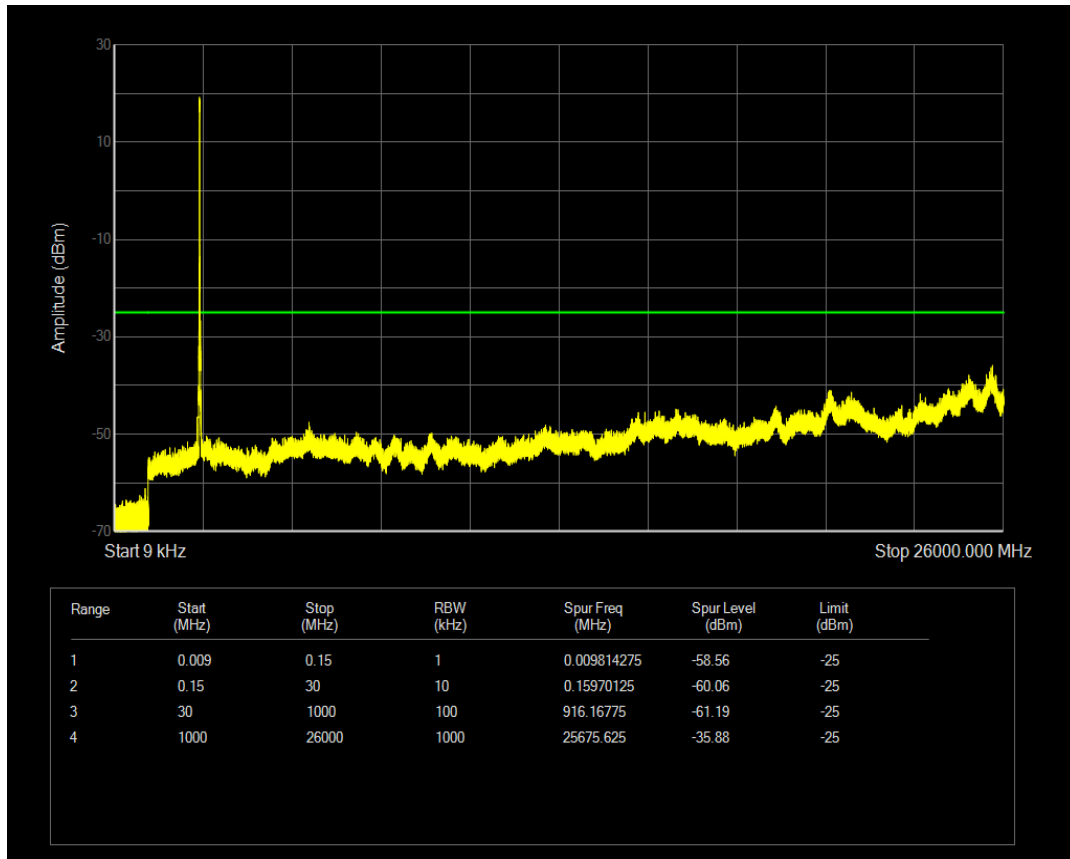
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



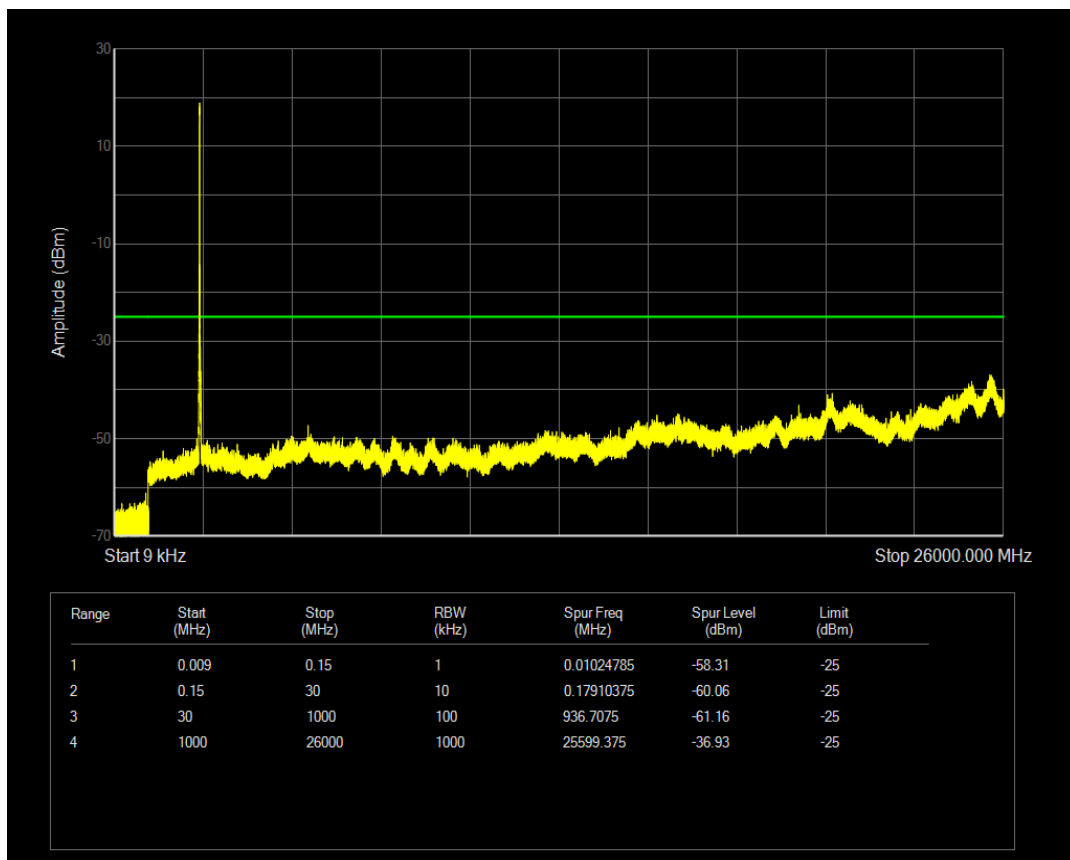
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



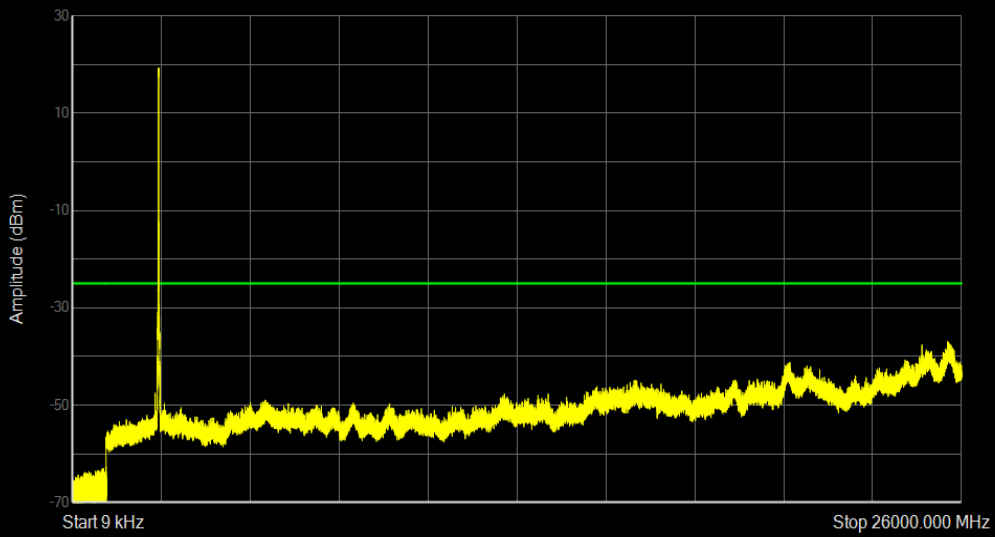
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



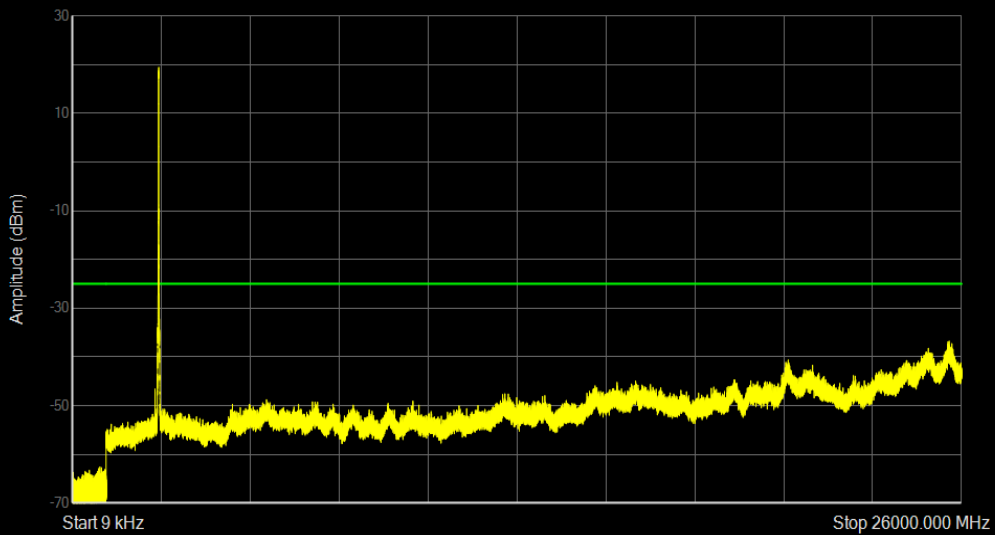
Band7 16QAM BW=10MHz Channel=20800 RB Size=50 Position=#0



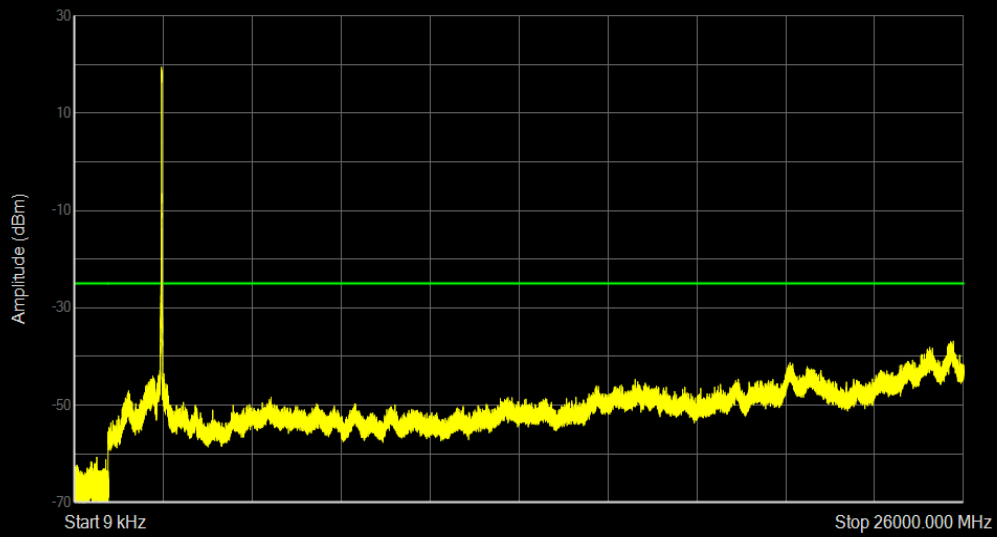
Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



Band7 16QAM BW=10MHz Channel=21100 RB Size=50 Position=#0

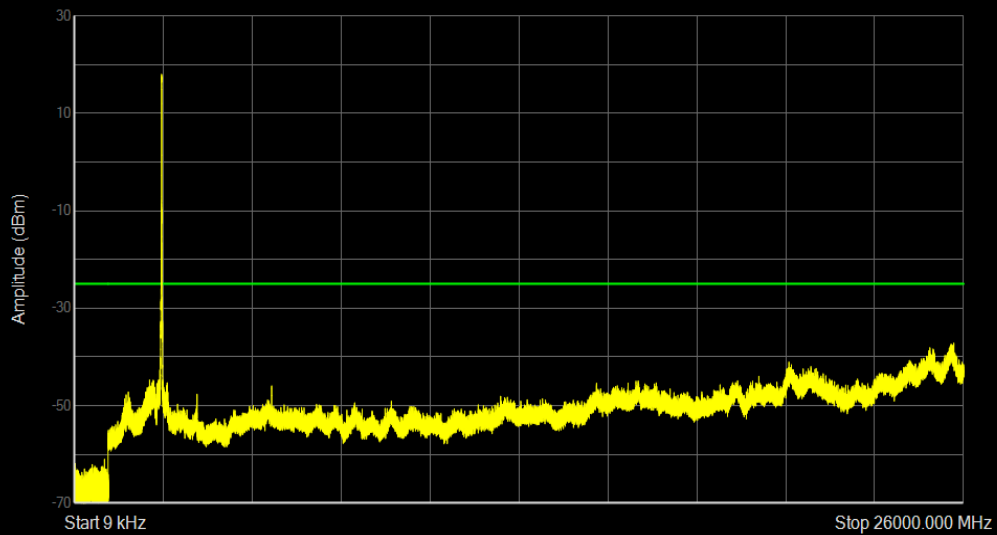


Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



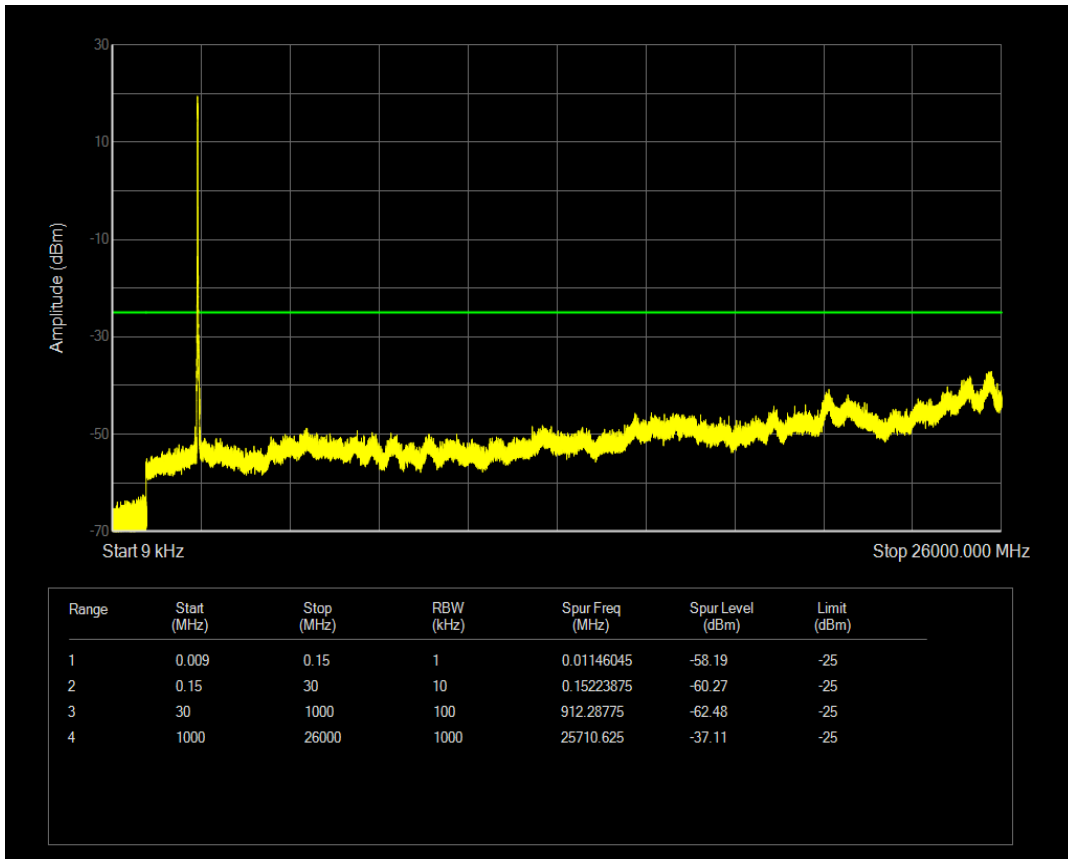
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00905925	-58.57	-25
2	0.15	30	10	0.16417875	-60.06	-25
3	30	1000	100	670.879	-60.72	-25
4	1000	26000	1000	25701.25	-36.85	-25

Band7 16QAM BW=10MHz Channel=21400 RB Size=50 Position=#0

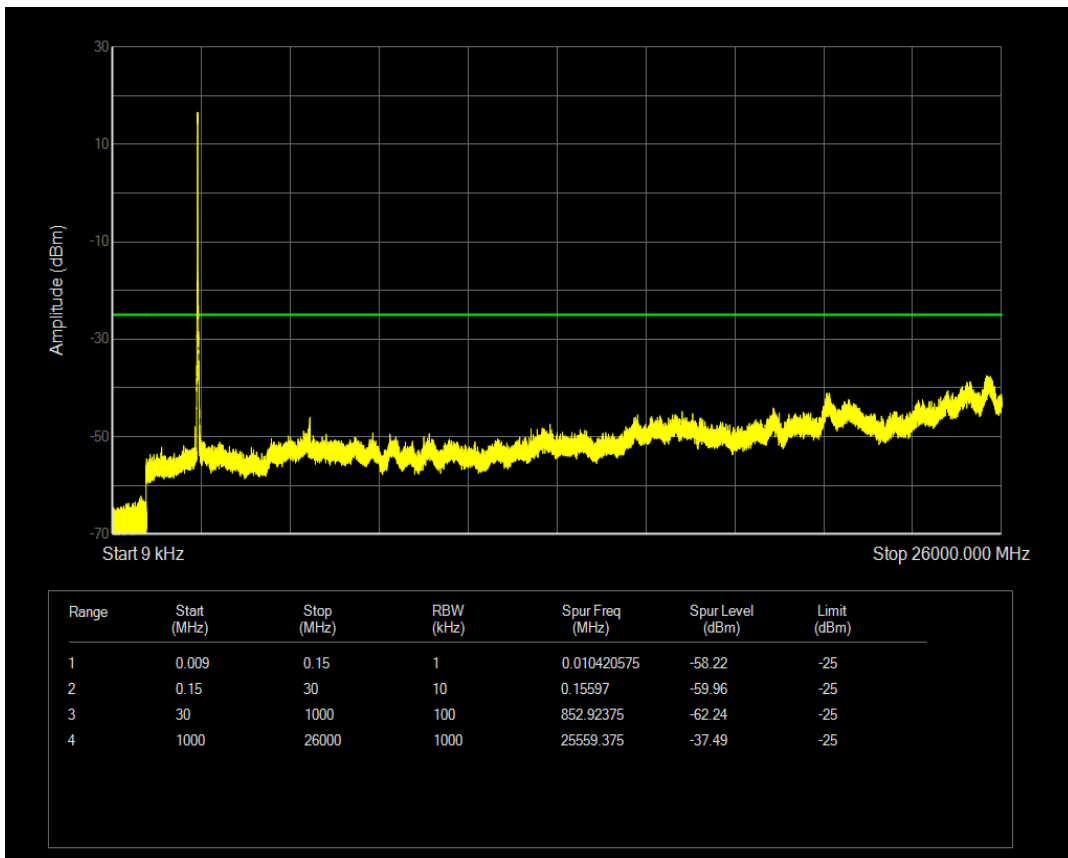


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-58.23	-25
2	0.15	30	10	0.16716375	-60.93	-25
3	30	1000	100	895.6765	-61	-25
4	1000	26000	1000	25715	-37.17	-25

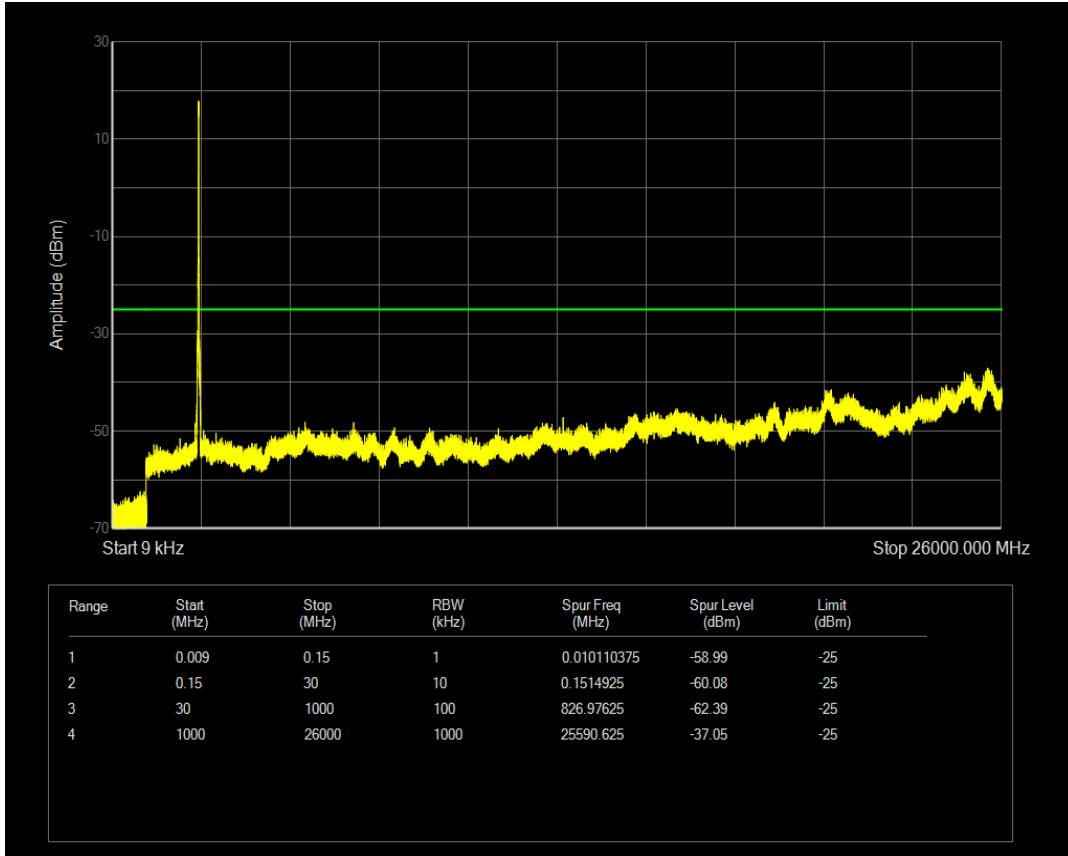
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



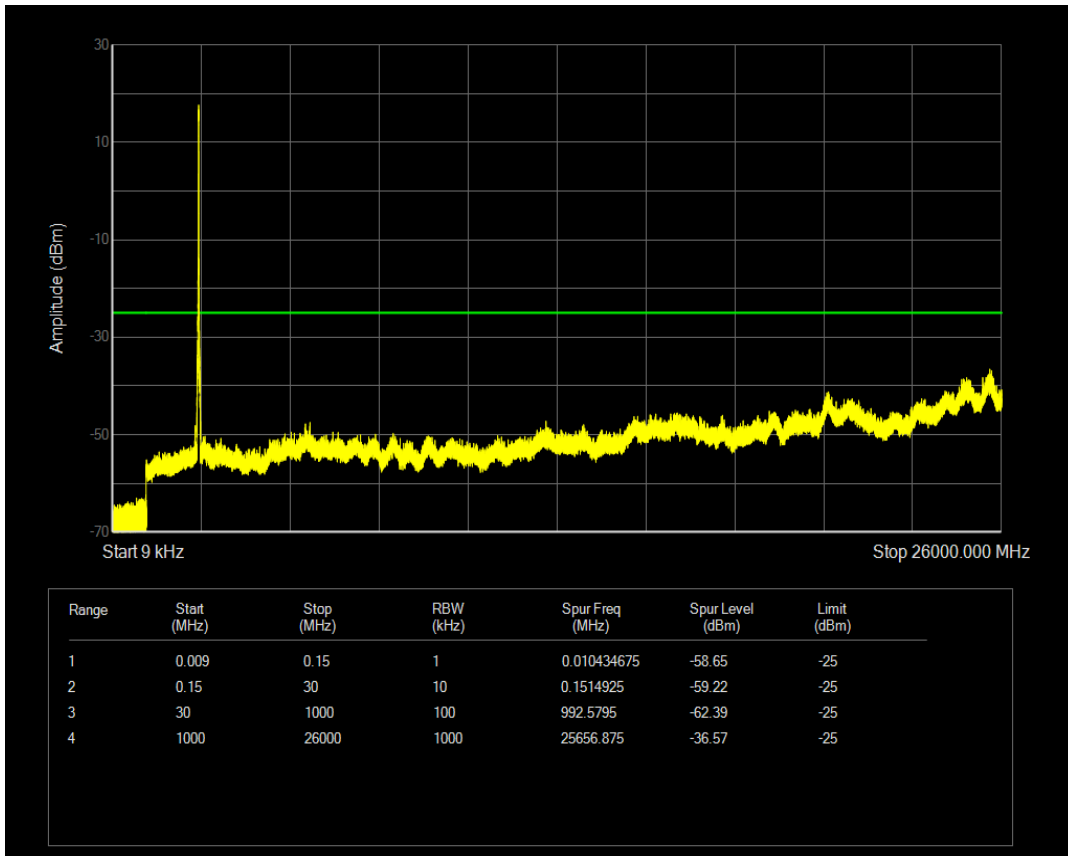
Band7 16QAM BW=15MHz Channel=20825 RB Size=75 Position=#0



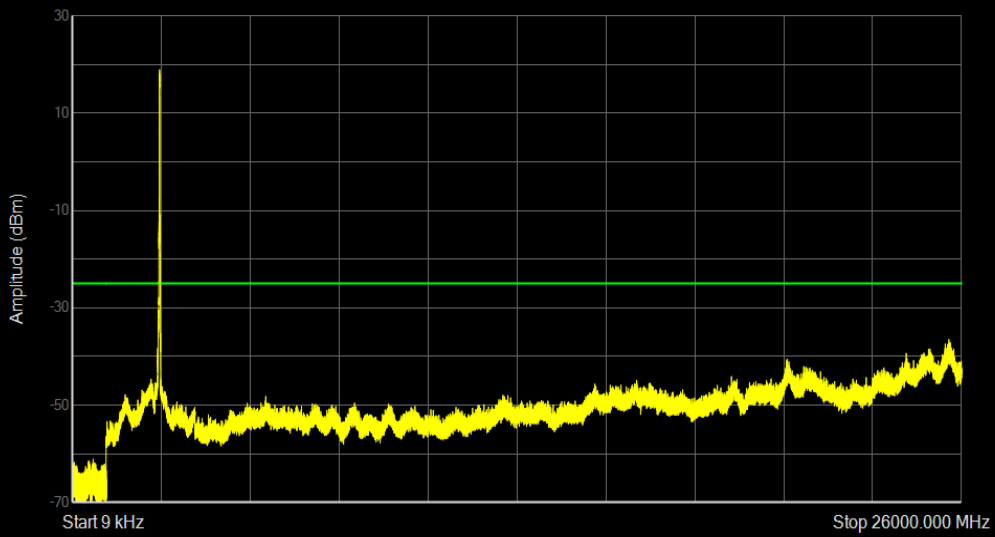
Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



Band7 16QAM BW=15MHz Channel=21100 RB Size=75 Position=#0

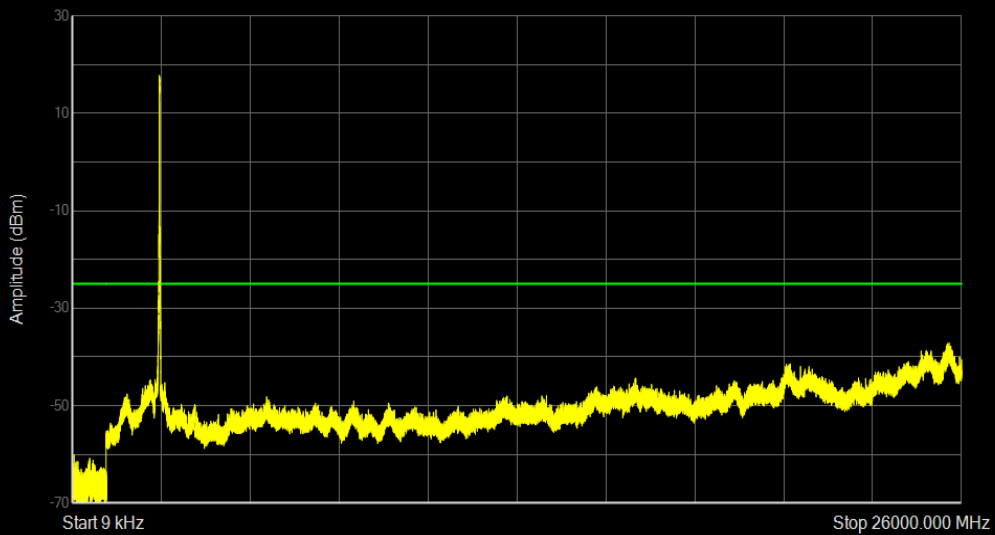


Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



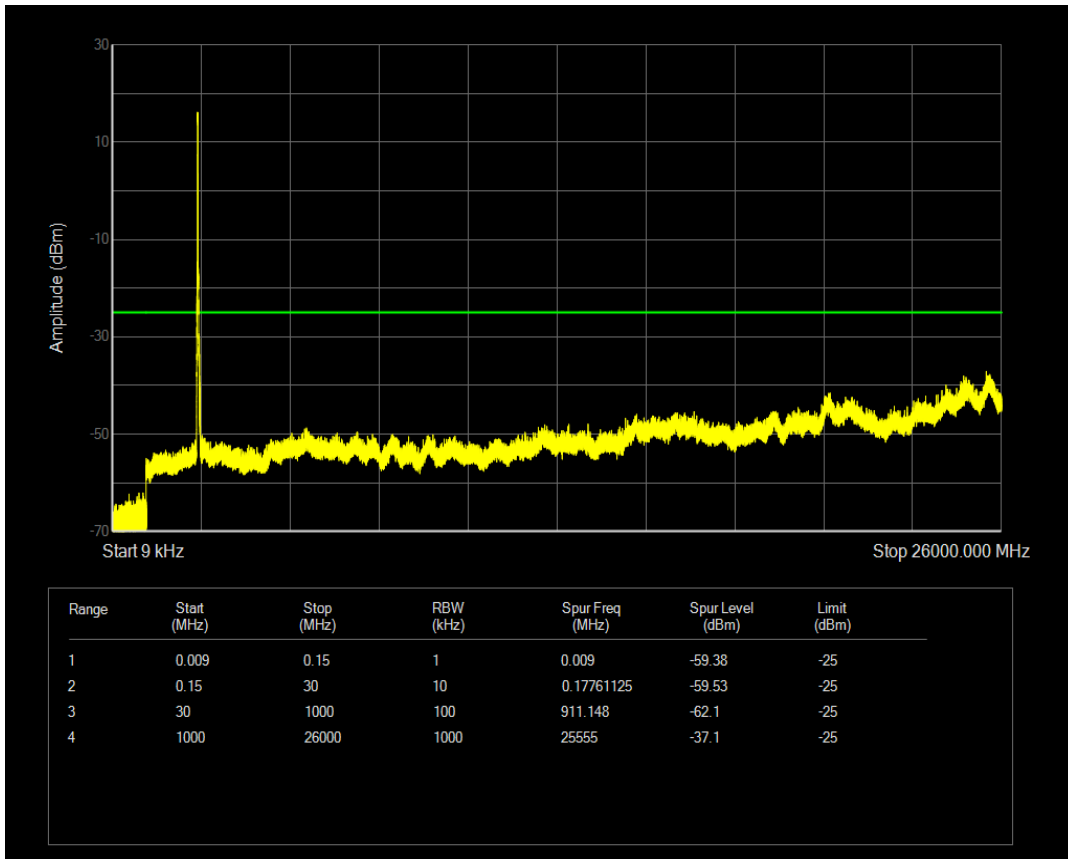
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012711825	-59.61	-25
2	0.15	30	10	0.15970125	-58.29	-25
3	30	1000	100	625.16775	-61.11	-25
4	1000	26000	1000	25630.625	-36.53	-25

Band7 16QAM BW=15MHz Channel=21375 RB Size=75 Position=#0

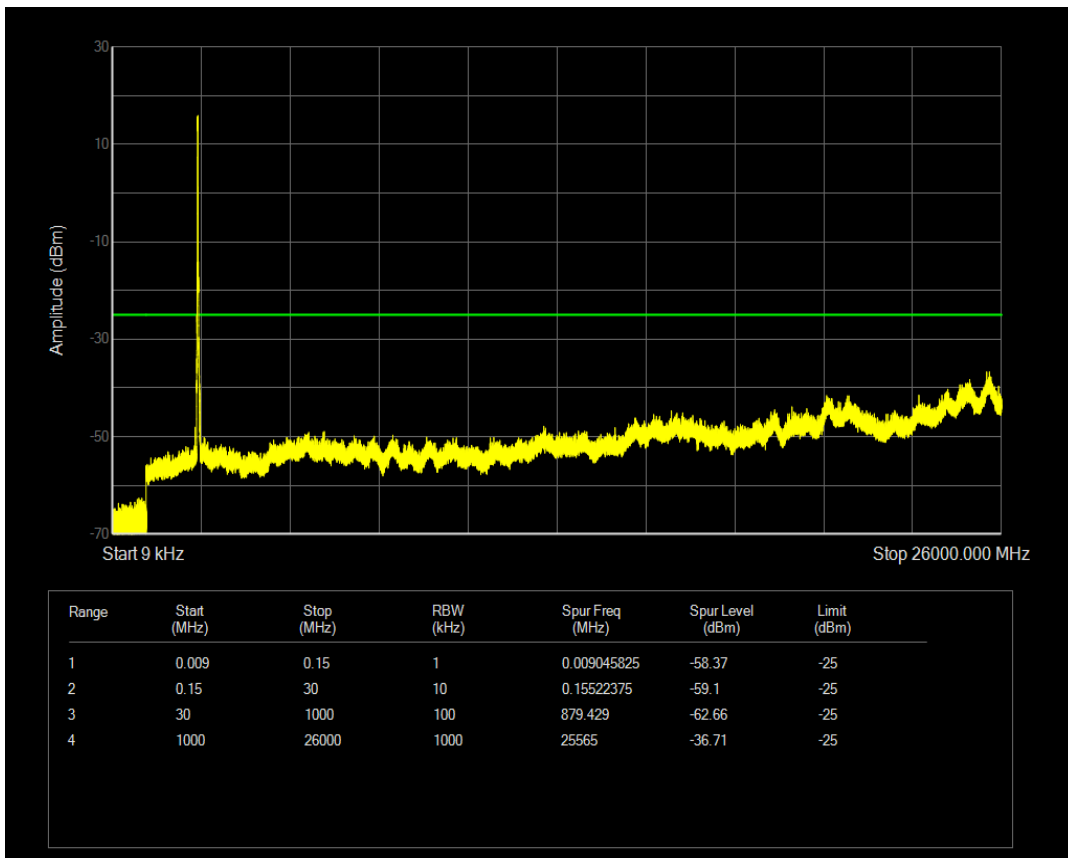


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009898875	-58.54	-25
2	0.15	30	10	0.158955	-59.89	-25
3	30	1000	100	63.659	-60.14	-25
4	1000	26000	1000	25635	-37.11	-25

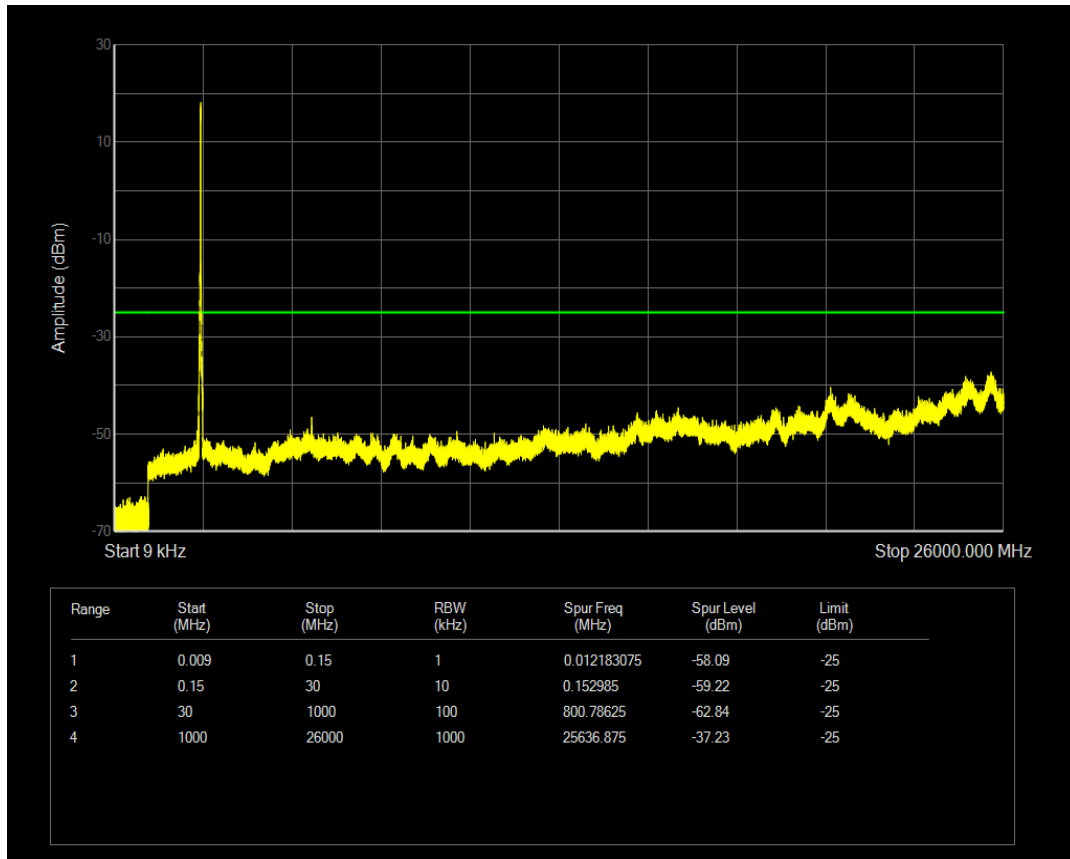
Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



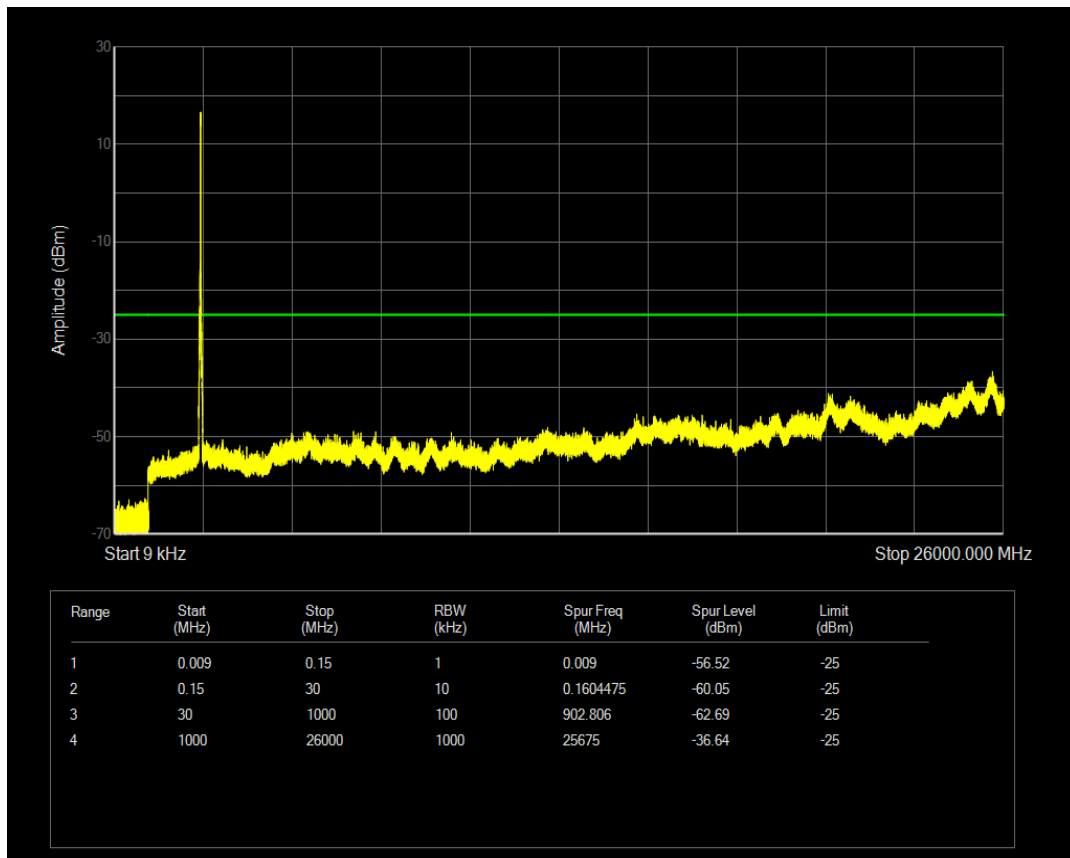
Band7 16QAM BW=20MHz Channel=20850 RB Size=100 Position=#0



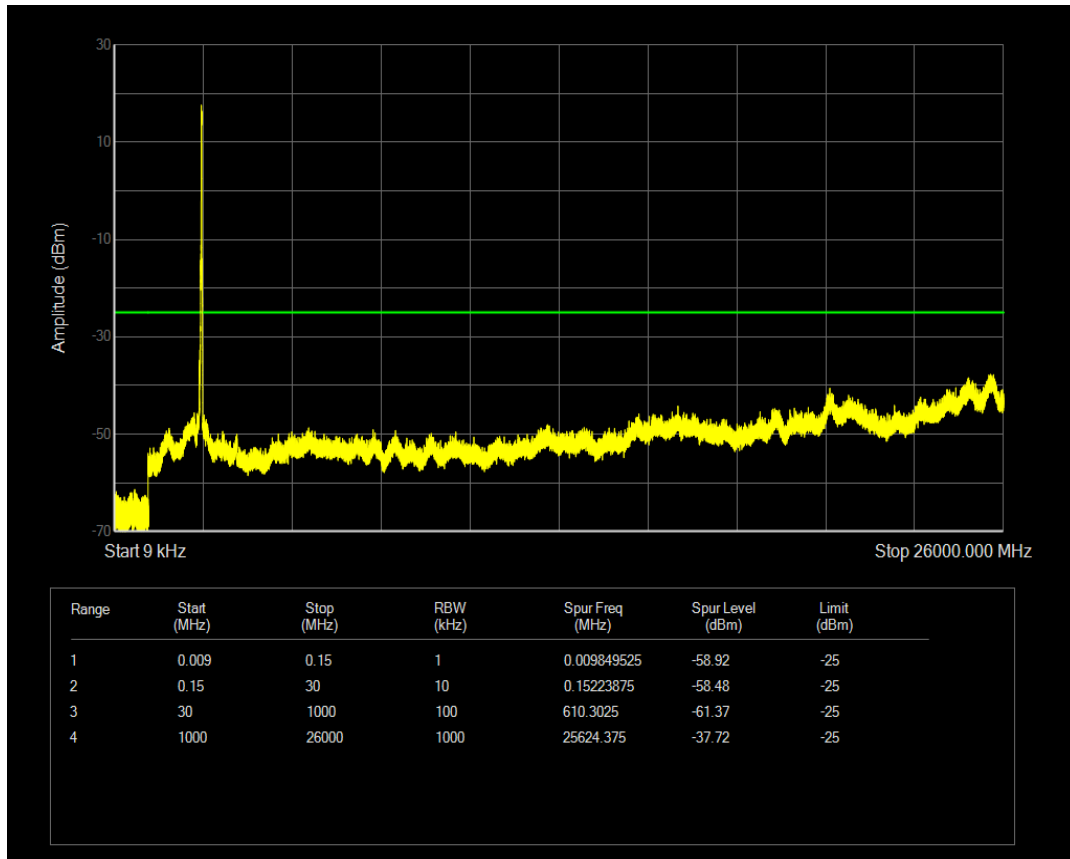
Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



Band7 16QAM BW=20MHz Channel=21100 RB Size=100 Position=#0



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



Band7 16QAM BW=20MHz Channel=21350 RB Size=100 Position=#0

