

Appendix for Band 7

Report No.: BCTC2403018610-2E

Applicant: Guangzhou T-Mark Technology Co., Ltd.

Product Name: GPS Tracker

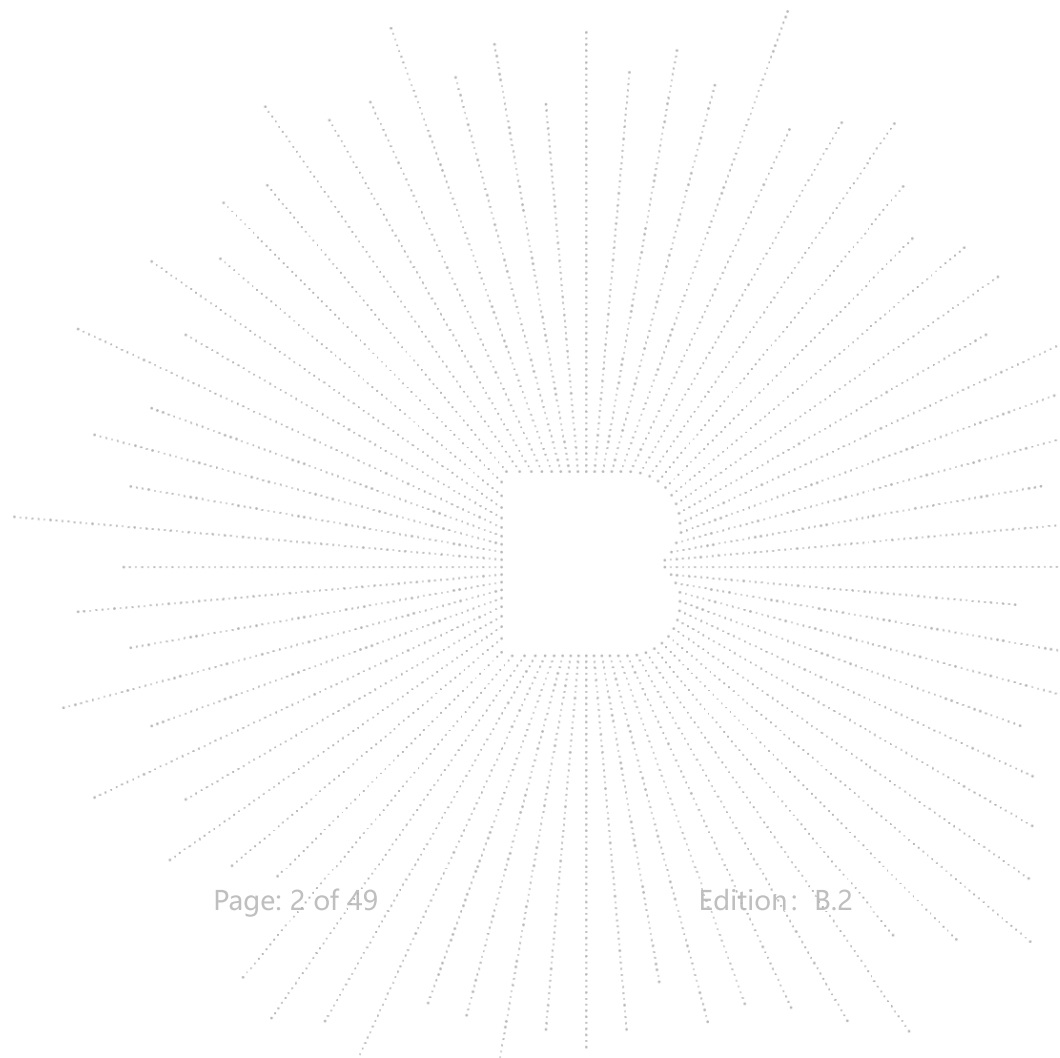
Test Model: T4-1C

Tested Date: 2024-03-19 to 2024-05-14

Shenzhen BCTC Testing Co., Ltd.

Contents

Appendix 1. Effective Radiated Power and Effective Isotropic Radiated Power Measurement	3
Appendix 2. Frequency stability.....	6
Appendix 3. Peak-to-Average Ratio	11
Appendix 4. Occupied bandwidth	22
Appendix 5. Band edge	32
Appendix 6. Out-of-band emissions	39



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

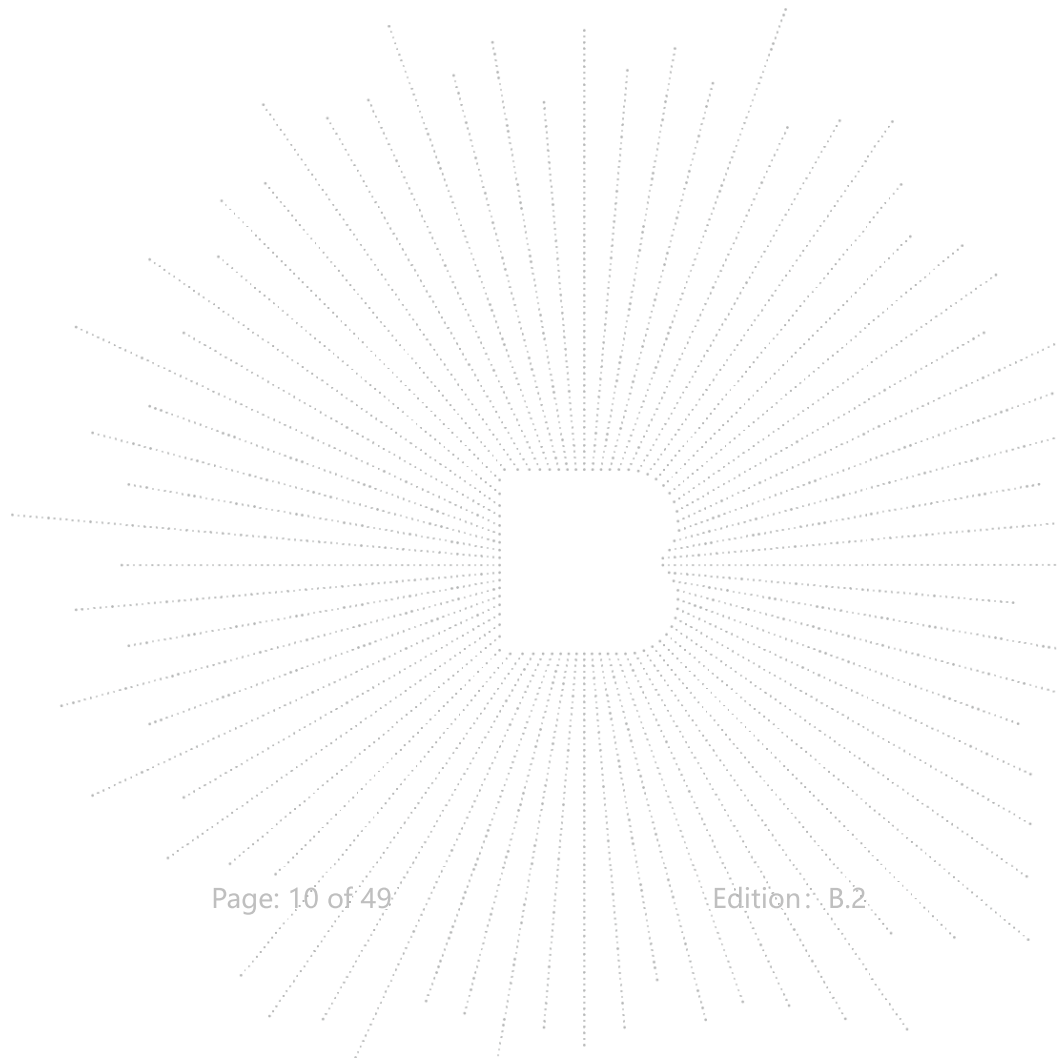
Band7	20	20850	100	#0	QPSK	NV	NT	-18.95	-0.008	PASS
Band7	20	20850	100	#0	QPSK	HV	NT	-17.27	-0.007	PASS
Band7	20	21100	100	#0	QPSK	LV	NT	-10.99	-0.004	PASS
Band7	20	21100	100	#0	QPSK	NV	NT	-18.05	-0.007	PASS
Band7	20	21100	100	#0	QPSK	HV	NT	-17.85	-0.007	PASS
Band7	20	21350	100	#0	QPSK	LV	NT	-11.67	-0.005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

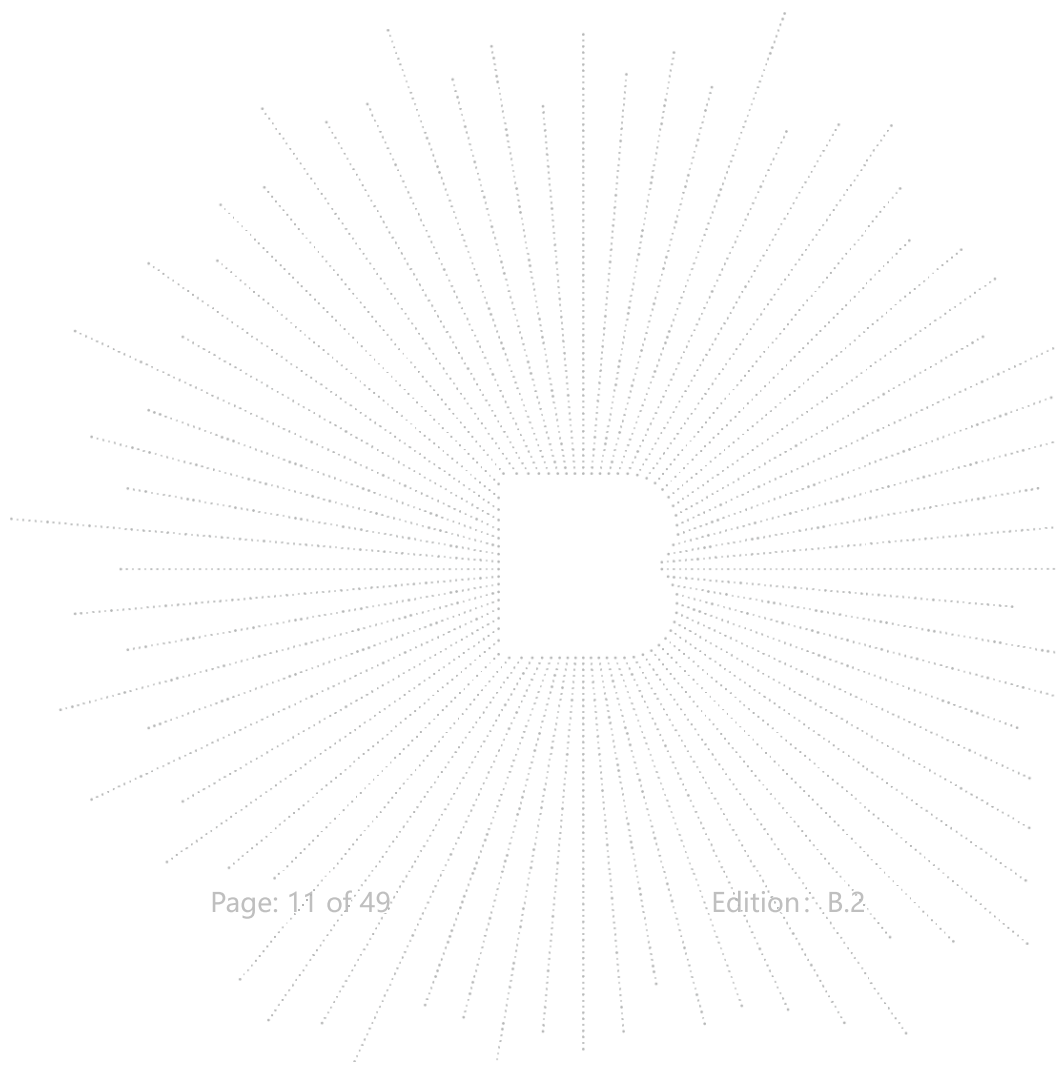
Band7	10	21400	50	#0	QPSK	NV	-20	0.26	0.000	PASS
Band7	10	21400	50	#0	QPSK	NV	-10	1.44	0.001	PASS
Band7	10	21400	50	#0	QPSK	NV	0	-13.99	-0.005	PASS
Band7	10	21400	50	#0	QPSK	NV	10	-3.20	-0.001	PASS
Band7	10	21400	50	#0	QPSK	NV	20	1.66	0.001	PASS
Band7	10	21400	50	#0	QPSK	NV	30	0.10	0.000	PASS
Band7	10	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

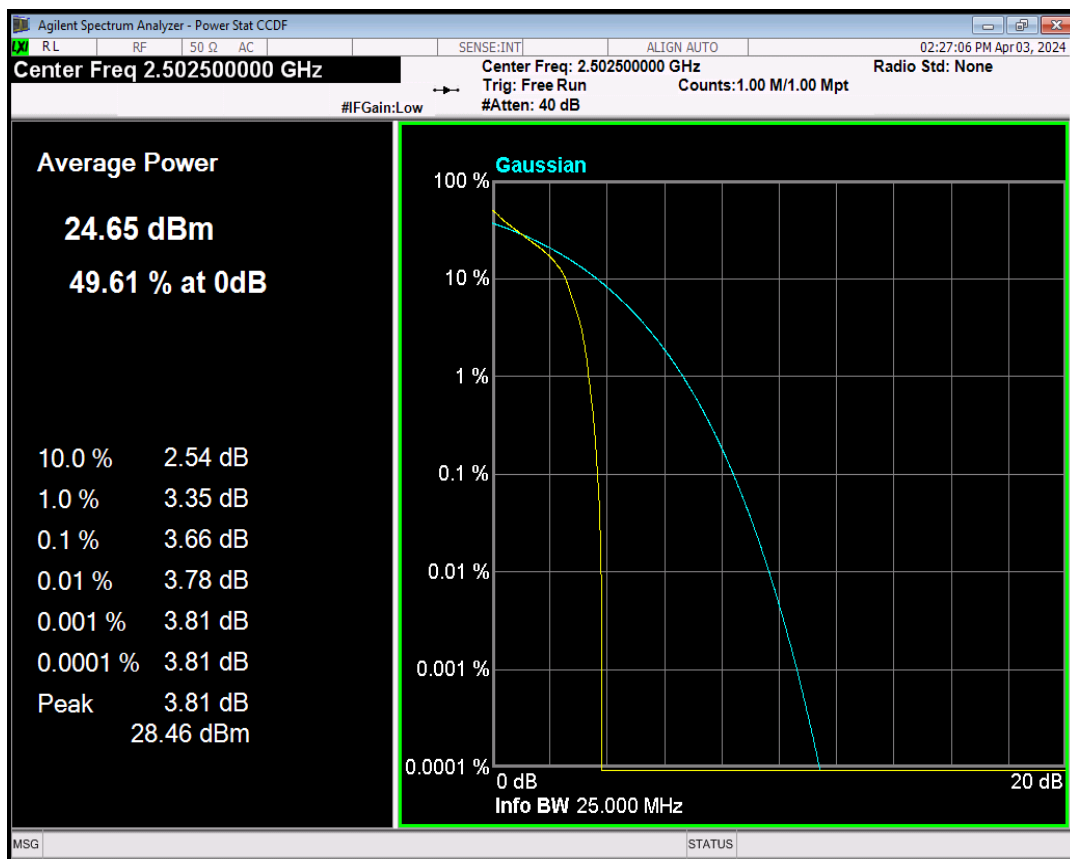


Appendix 3. Peak-to-Average Ratio

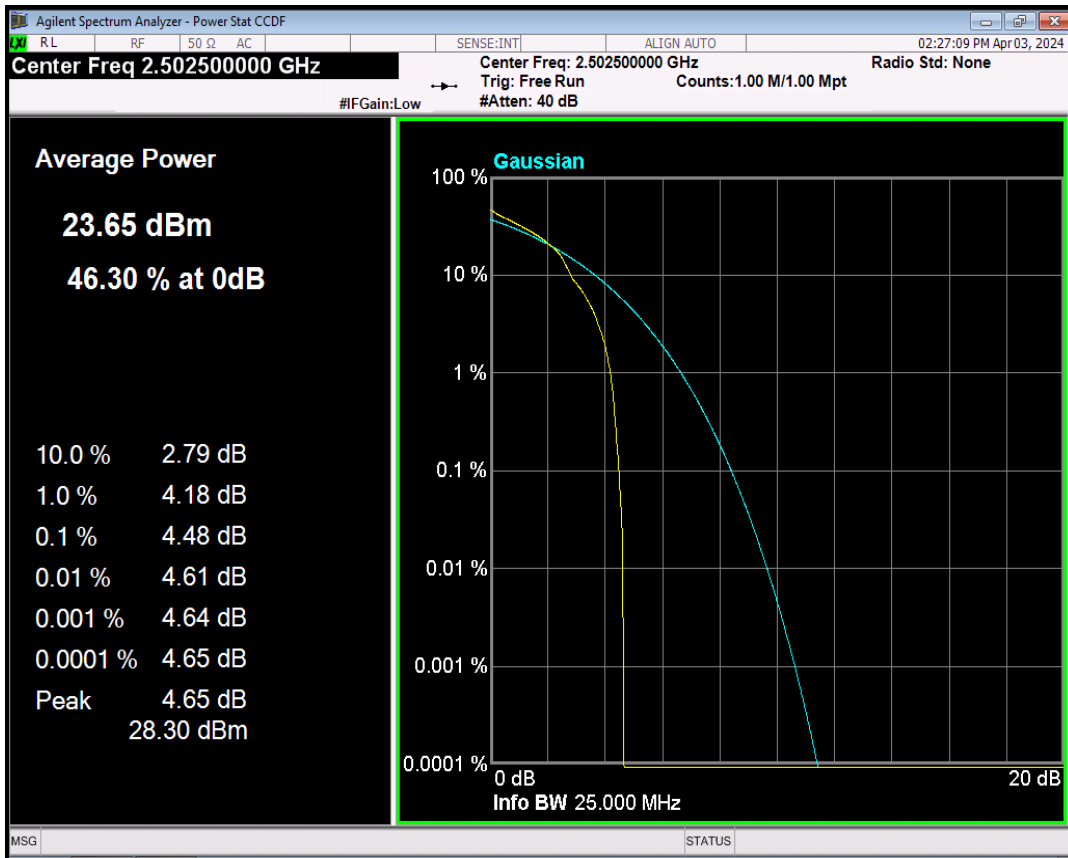
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band7	5	20775	1	#0	QPSK	3.66	13	PASS
Band7	5	20775	1	#0	16QAM	4.48	13	PASS
Band7	5	21100	1	#0	QPSK	5.57	13	PASS
Band7	5	21100	1	#0	16QAM	5.83	13	PASS
Band7	5	21425	1	#0	QPSK	5.98	13	PASS
Band7	5	21425	1	#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



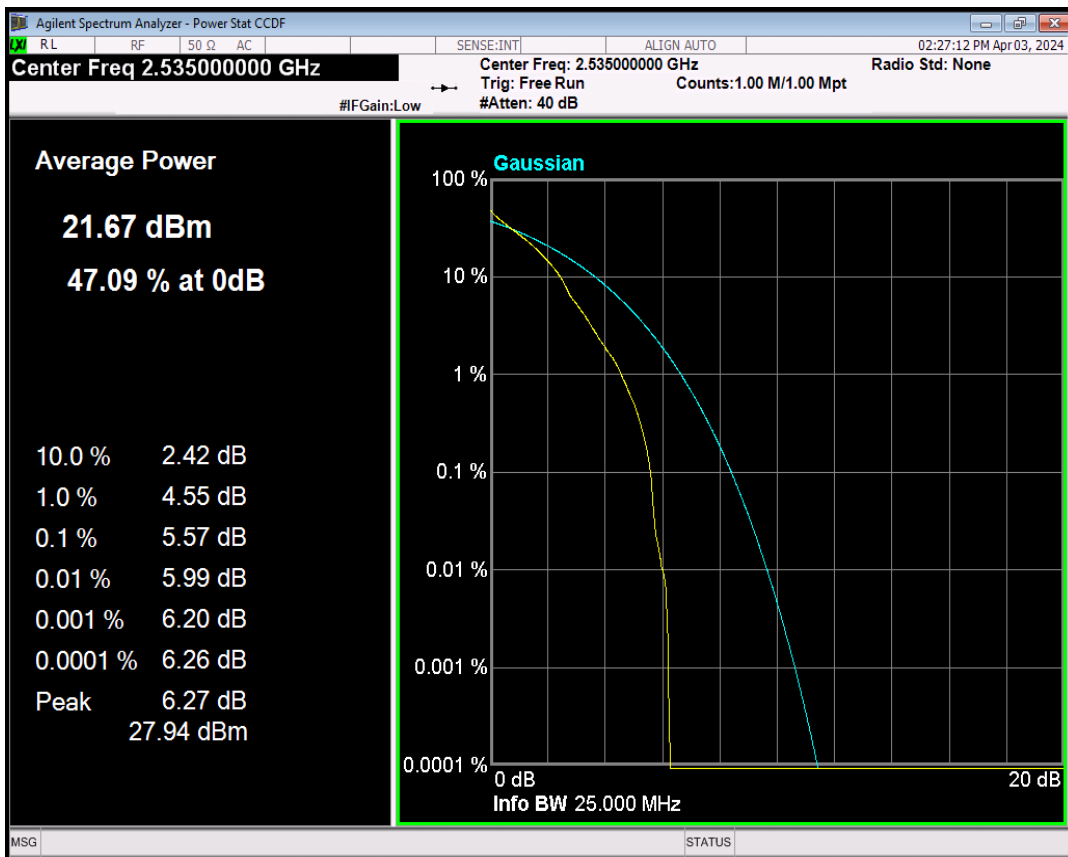
Band7 QPSK BW=5MHz Channel=20775 RB Size=1 Position=#0



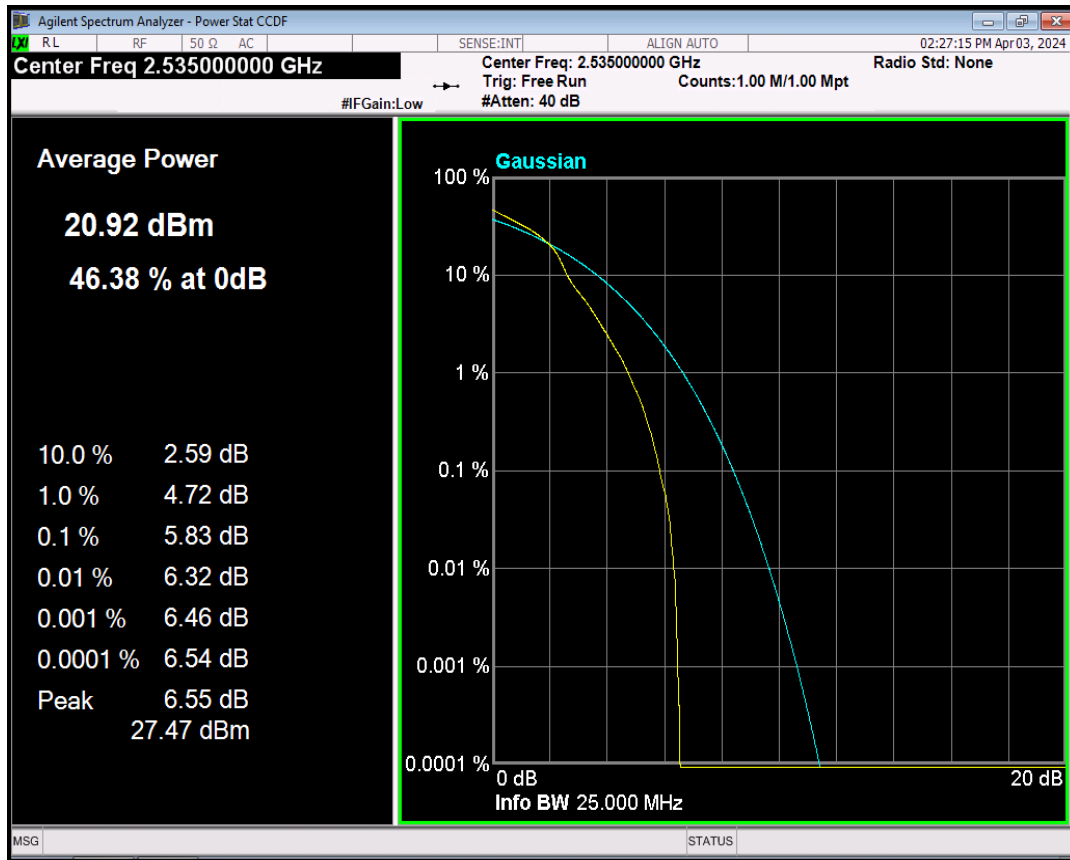
Band7 16QAM BW=5MHz Channel=20775 RB Size=1 Position=#0



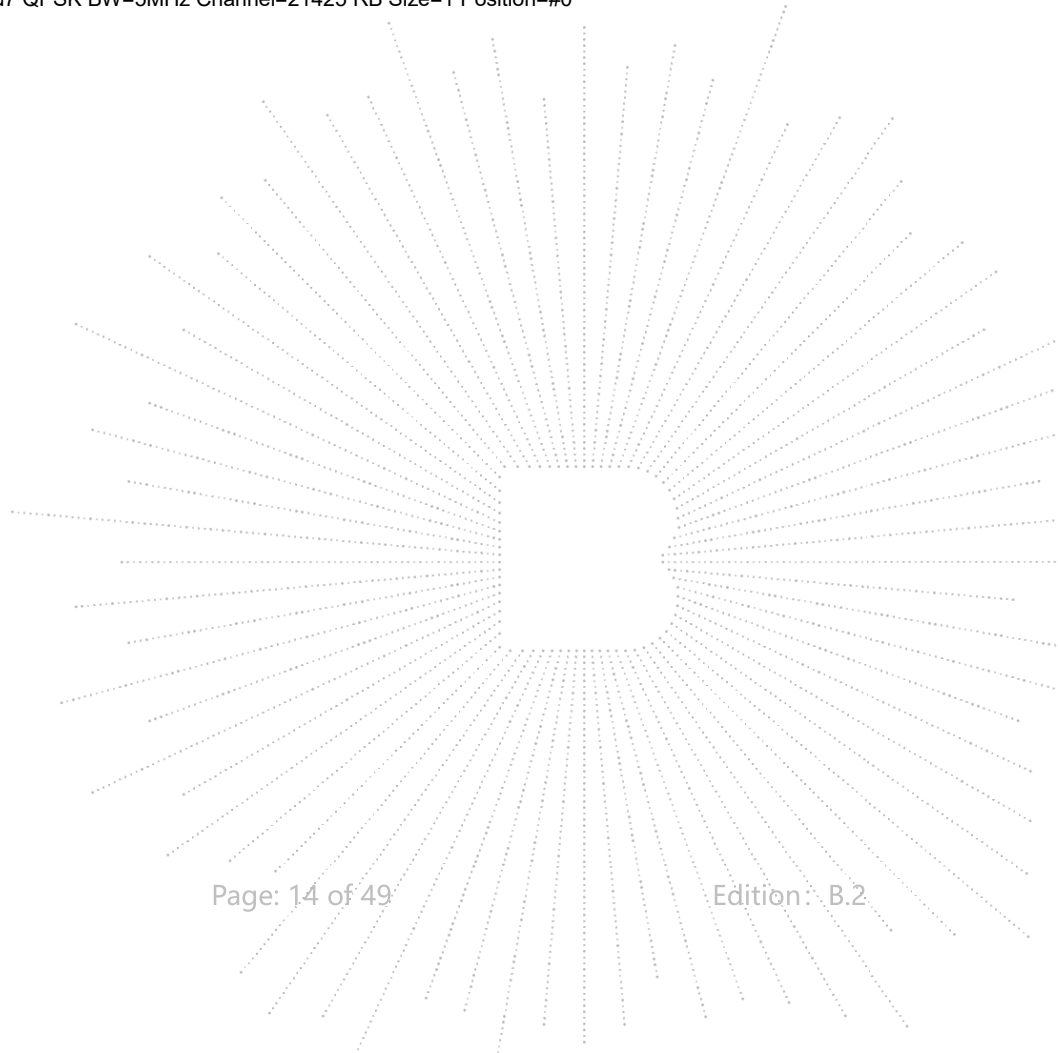
Band7 QPSK BW=5MHz Channel=21100 RB Size=1 Position=#0

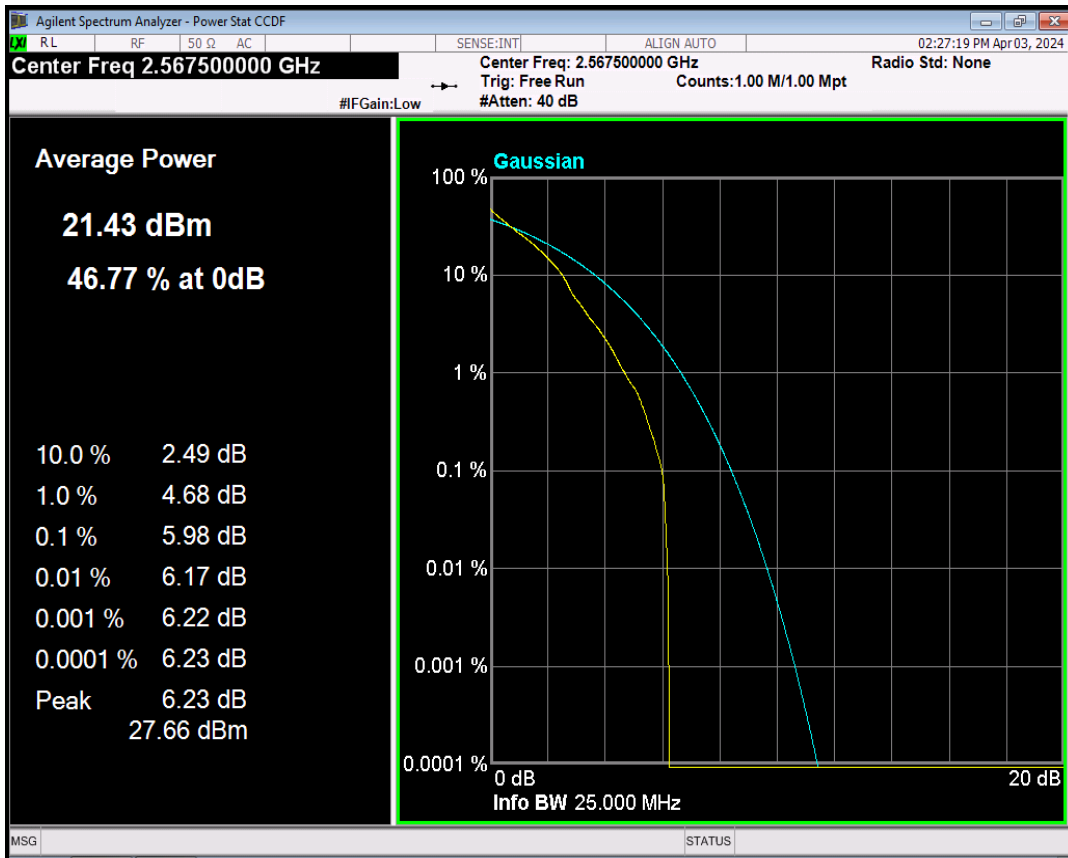


Band7 16QAM BW=5MHz Channel=21100 RB Size=1 Position=#0

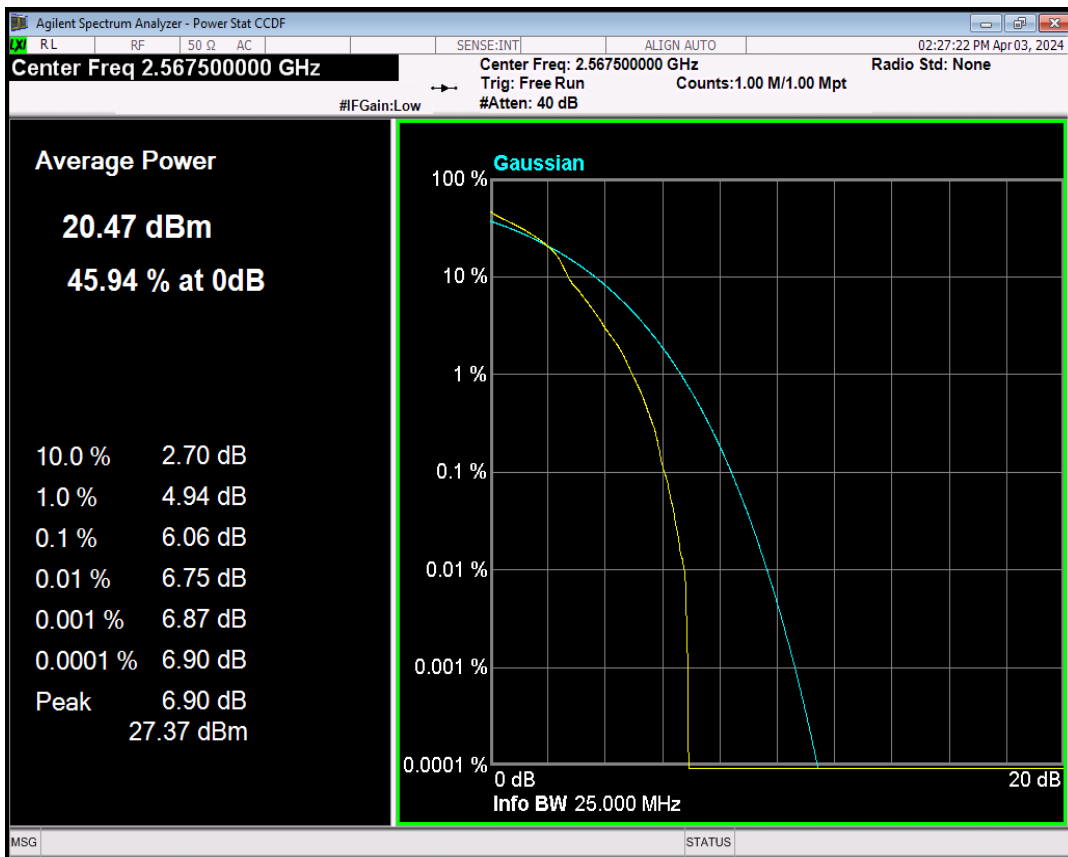


Band7 QPSK BW=5MHz Channel=21425 RB Size=1 Position=#0



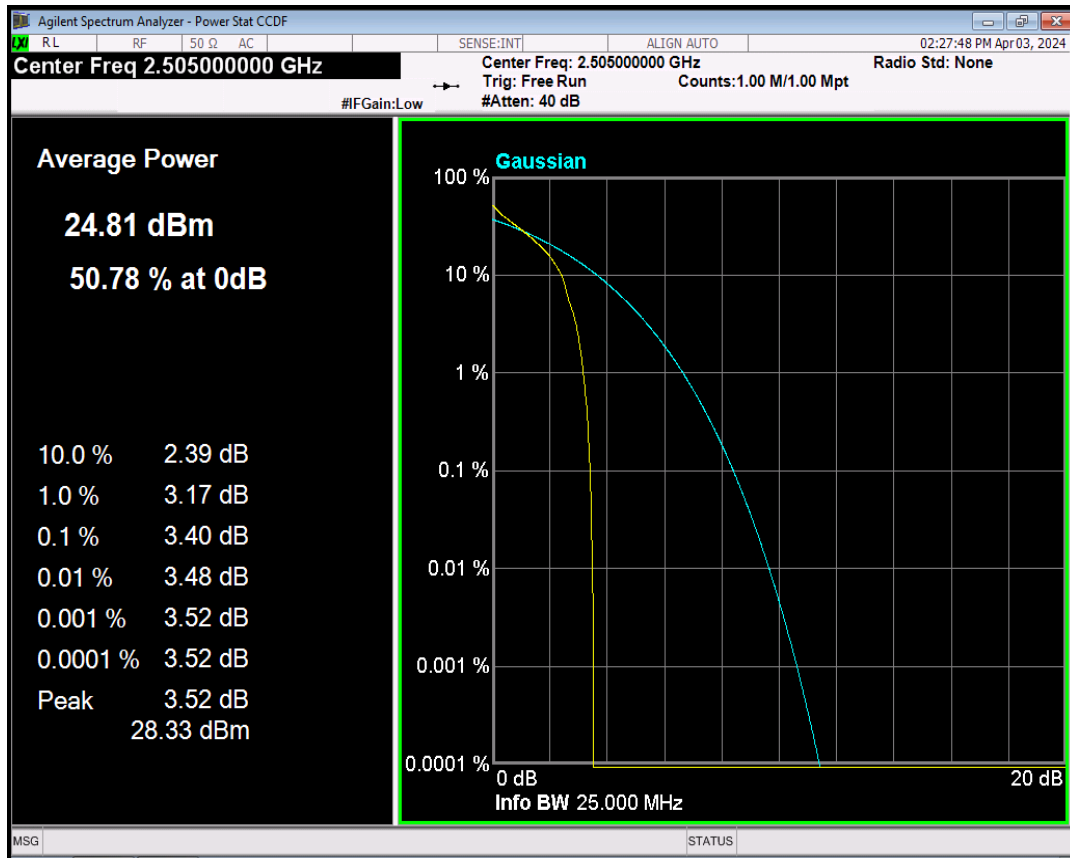


Band7 16QAM BW=5MHz Channel=21425 RB Size=1 Position=#0

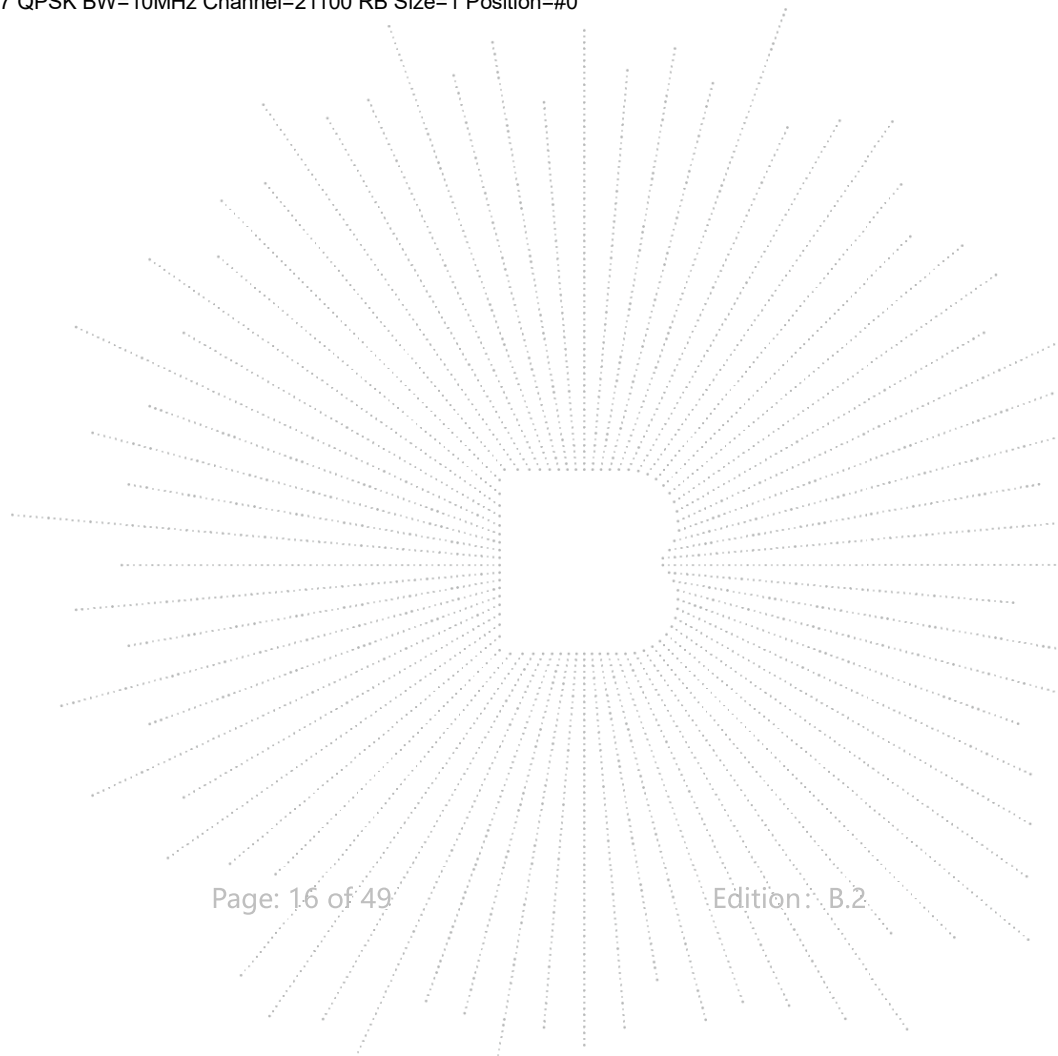


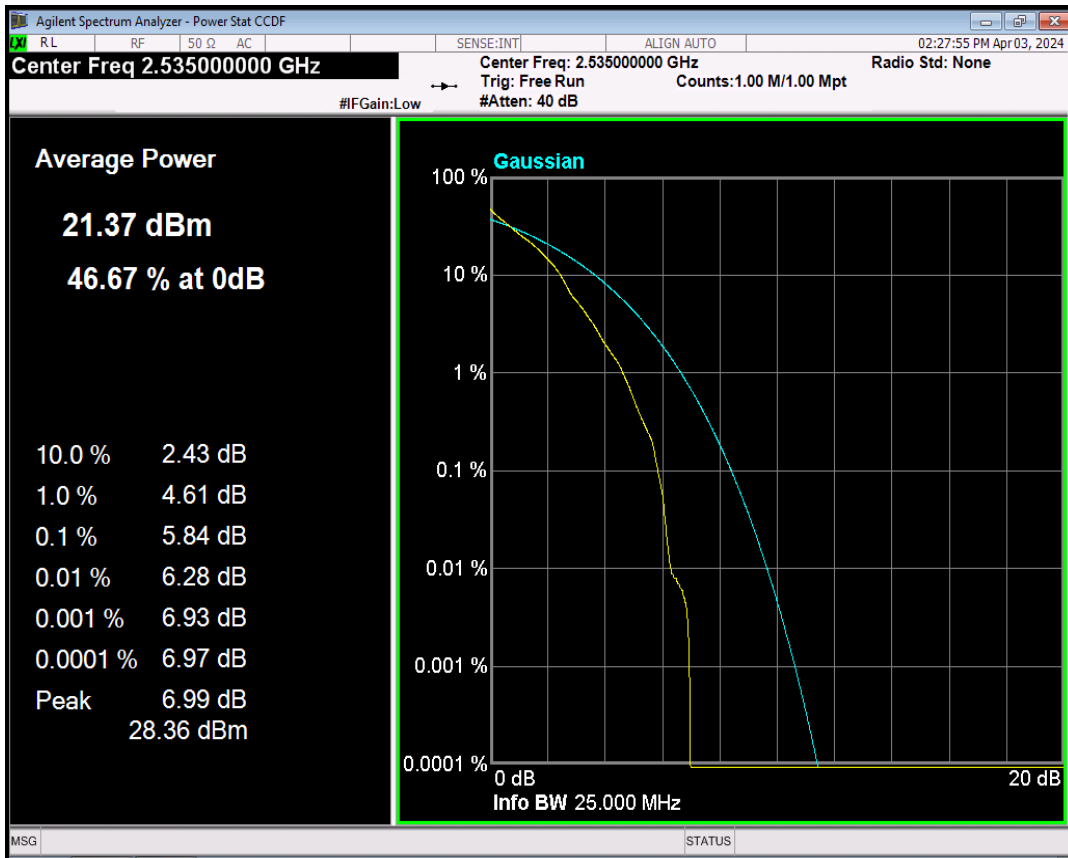


Band7 QPSK BW=10MHz Channel=20800 RB Size=1 Position=#0

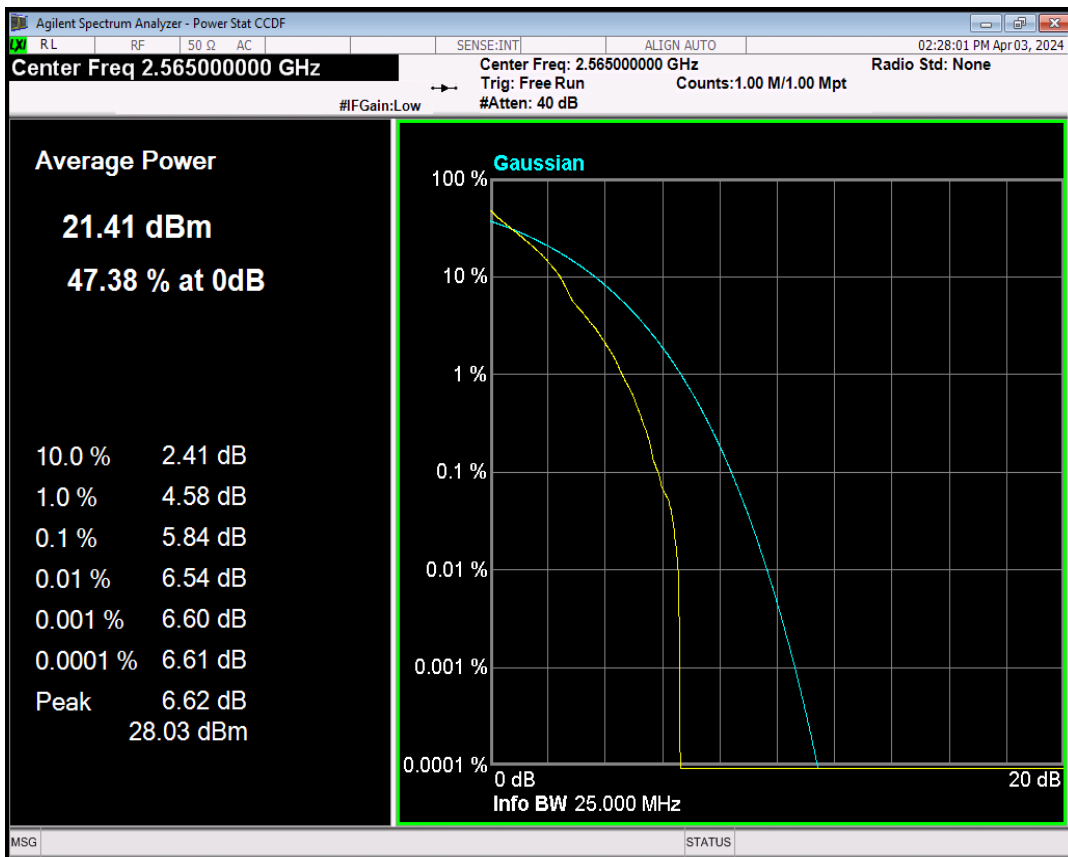


Band7 QPSK BW=10MHz Channel=21100 RB Size=1 Position=#0

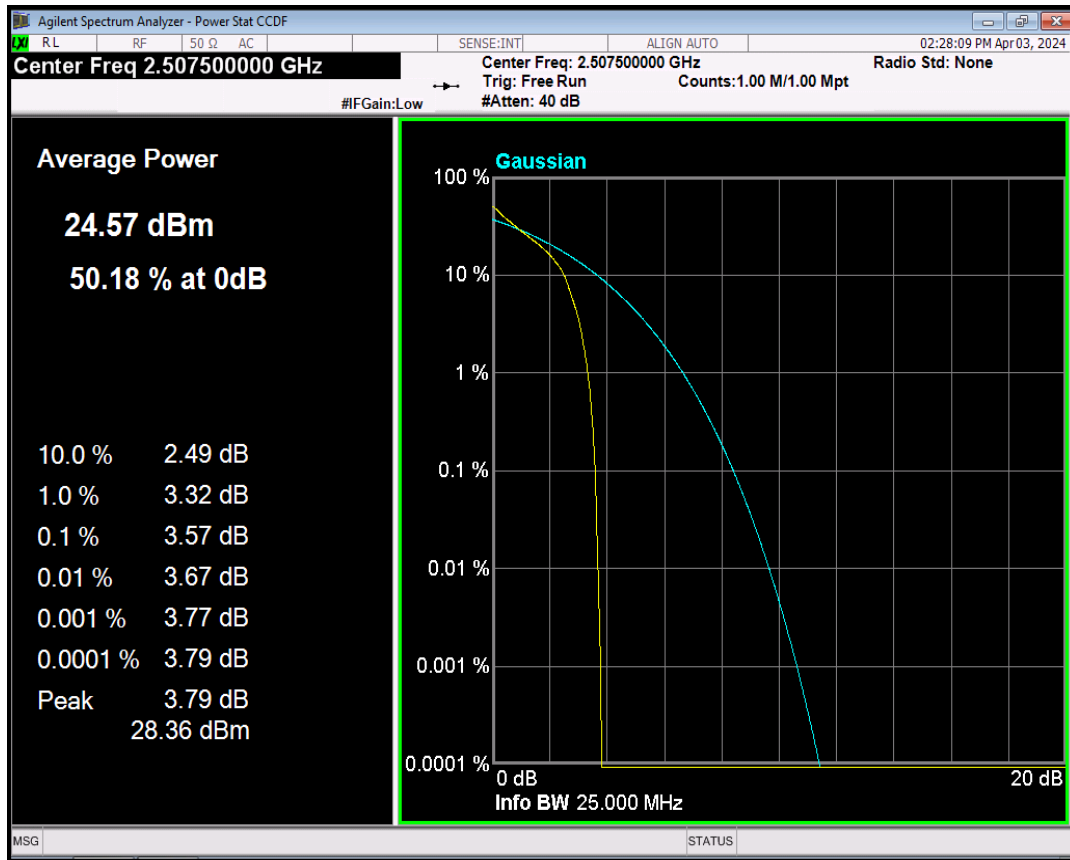




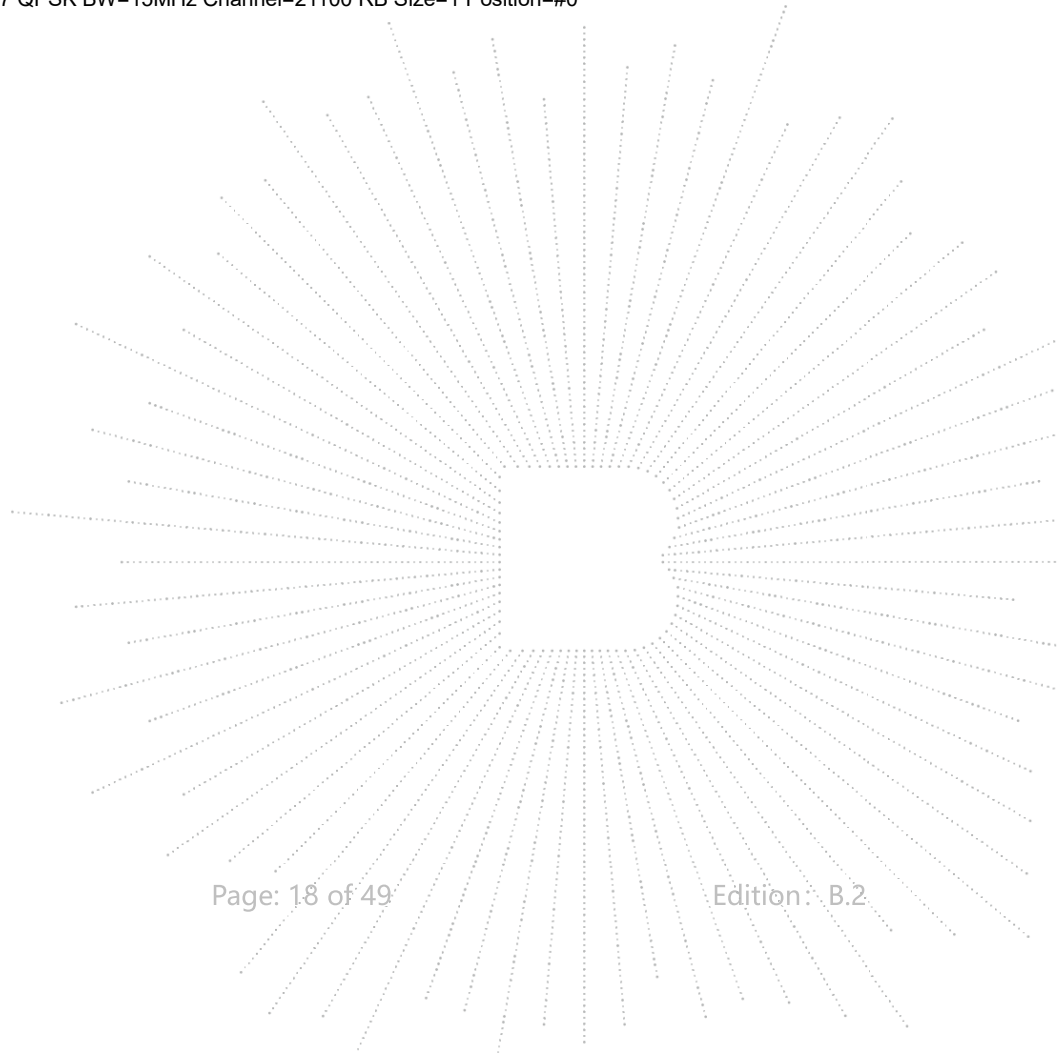
Band7 QPSK BW=10MHz Channel=21400 RB Size=1 Position=#0

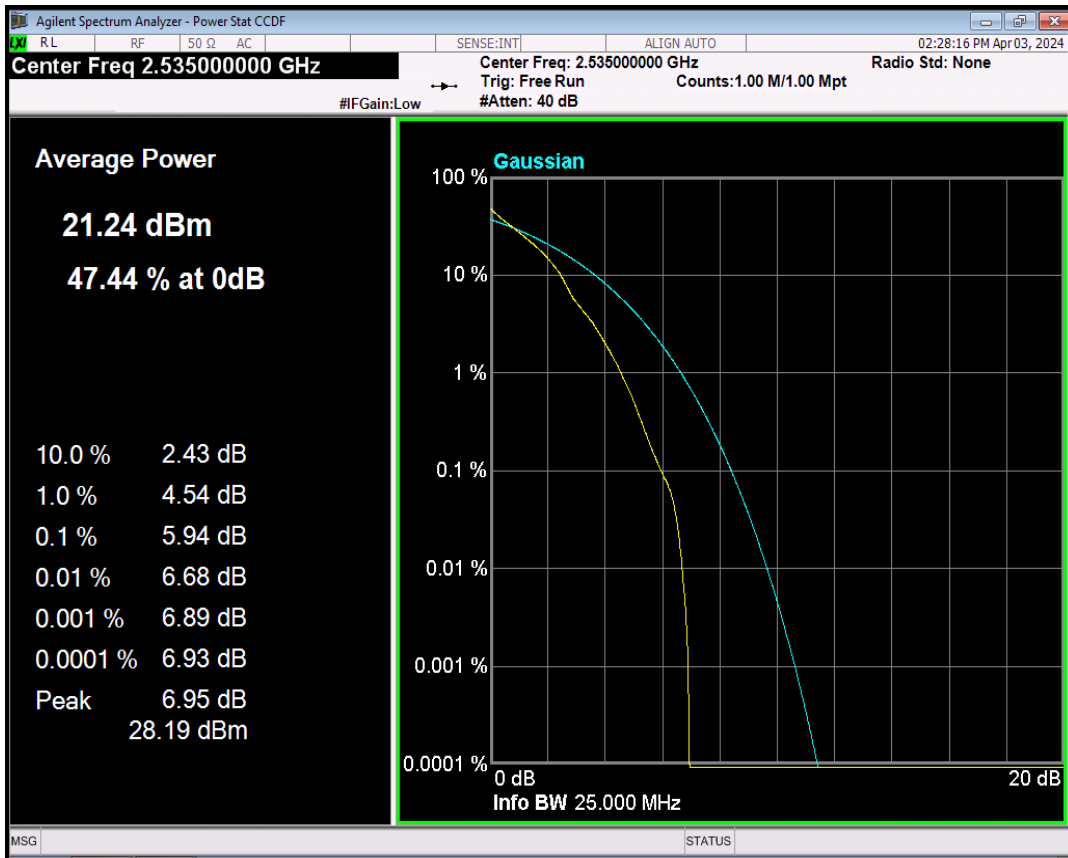


Band7 QPSK BW=15MHz Channel=20825 RB Size=1 Position=#0

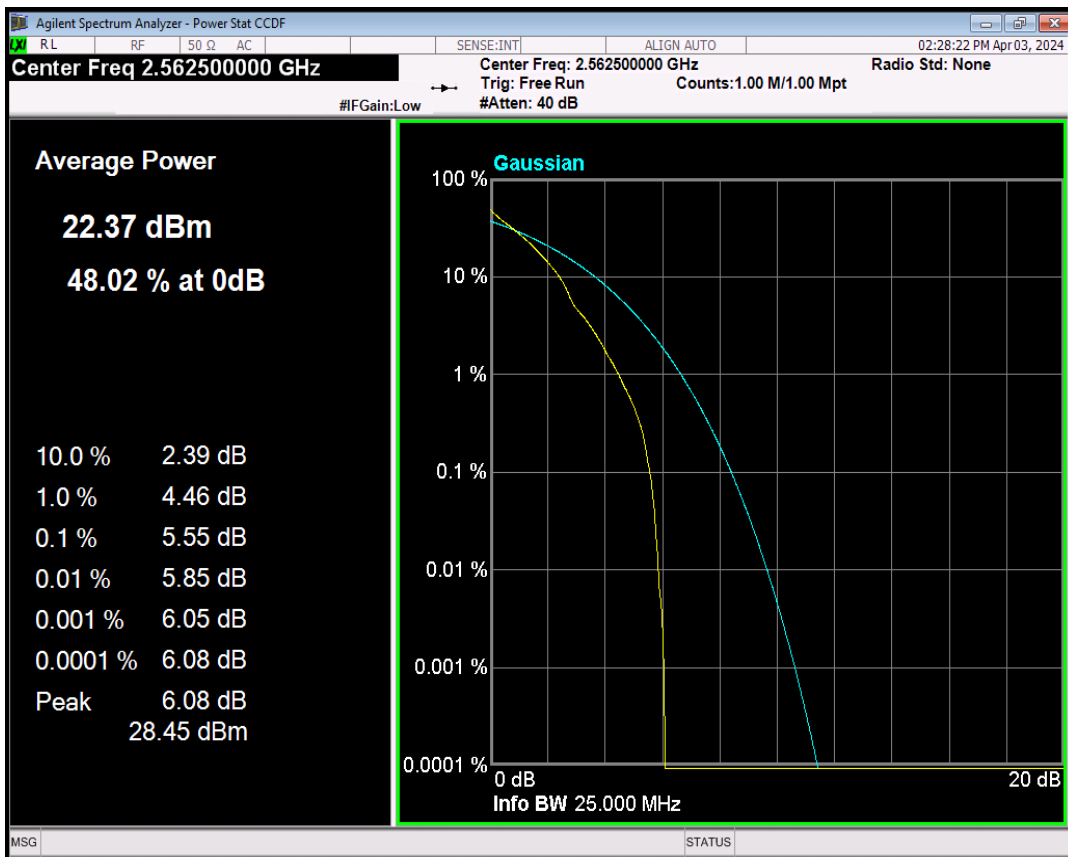


Band7 QPSK BW=15MHz Channel=21100 RB Size=1 Position=#0

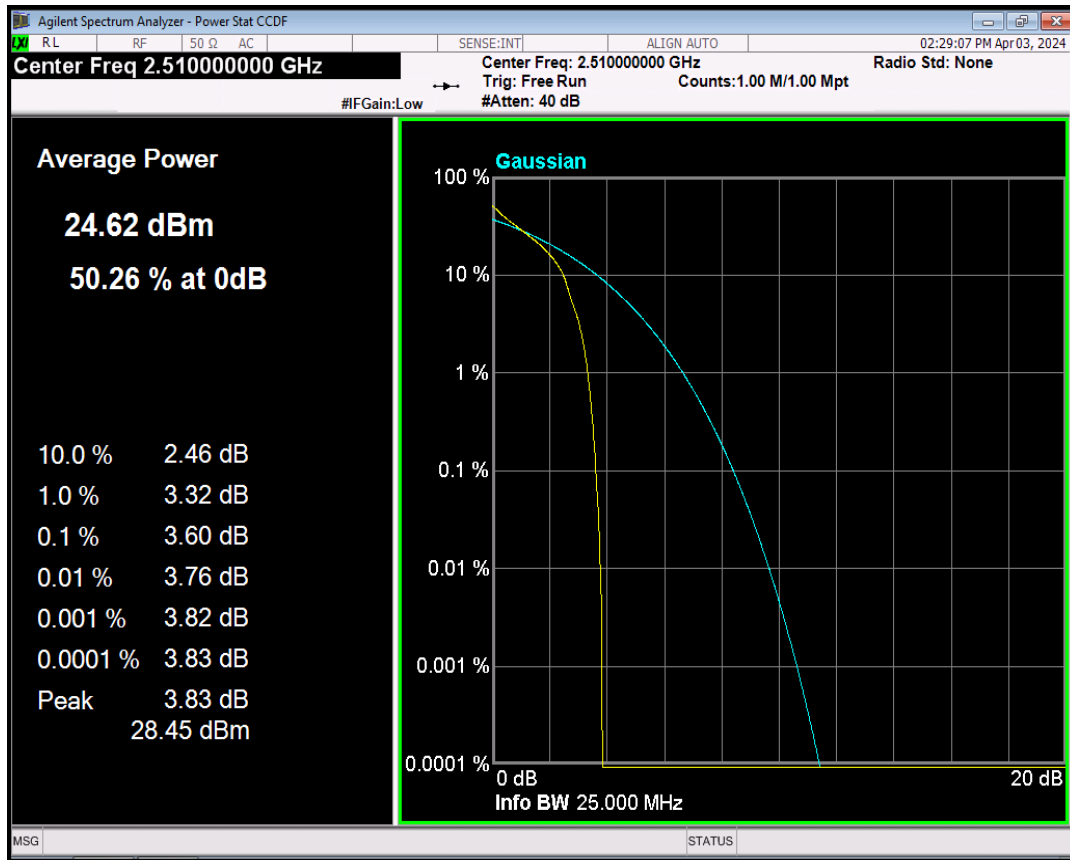




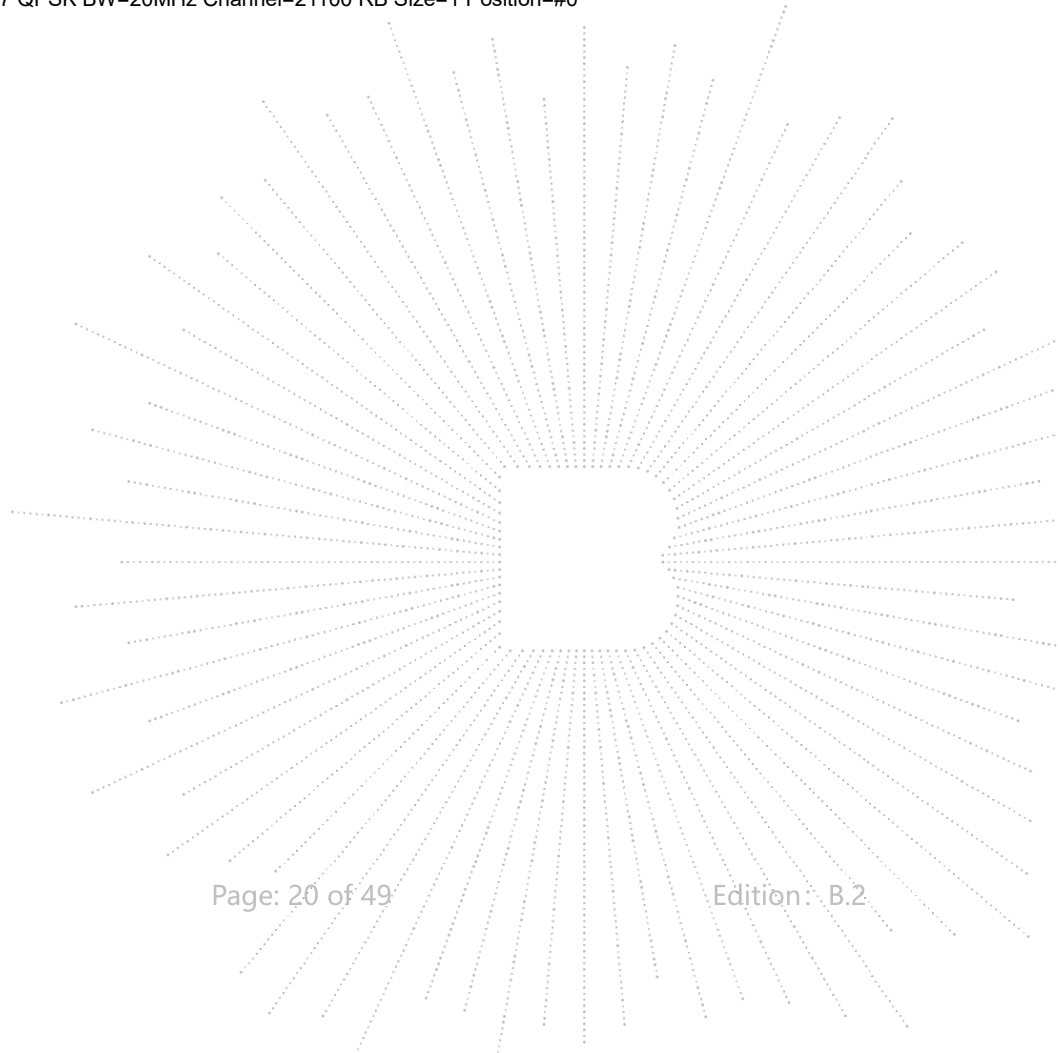
Band7 QPSK BW=15MHz Channel=21375 RB Size=1 Position=#0

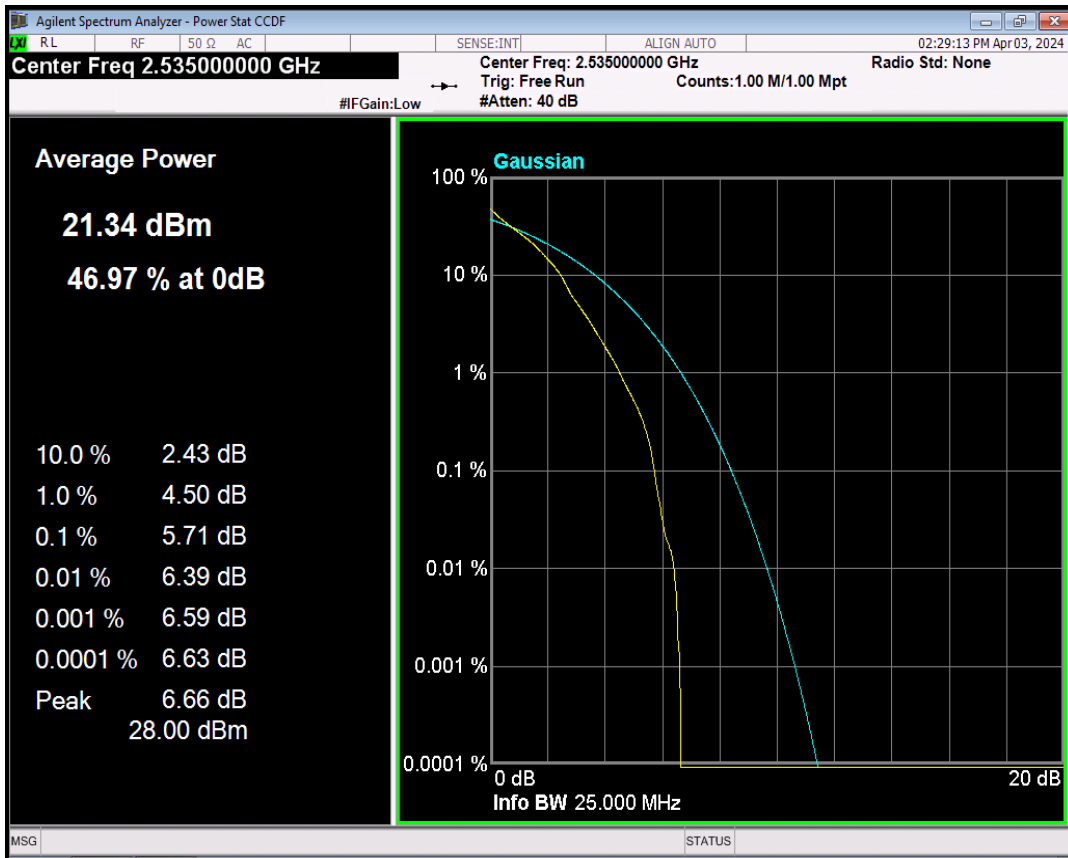


Band7 QPSK BW=20MHz Channel=20850 RB Size=1 Position=#0

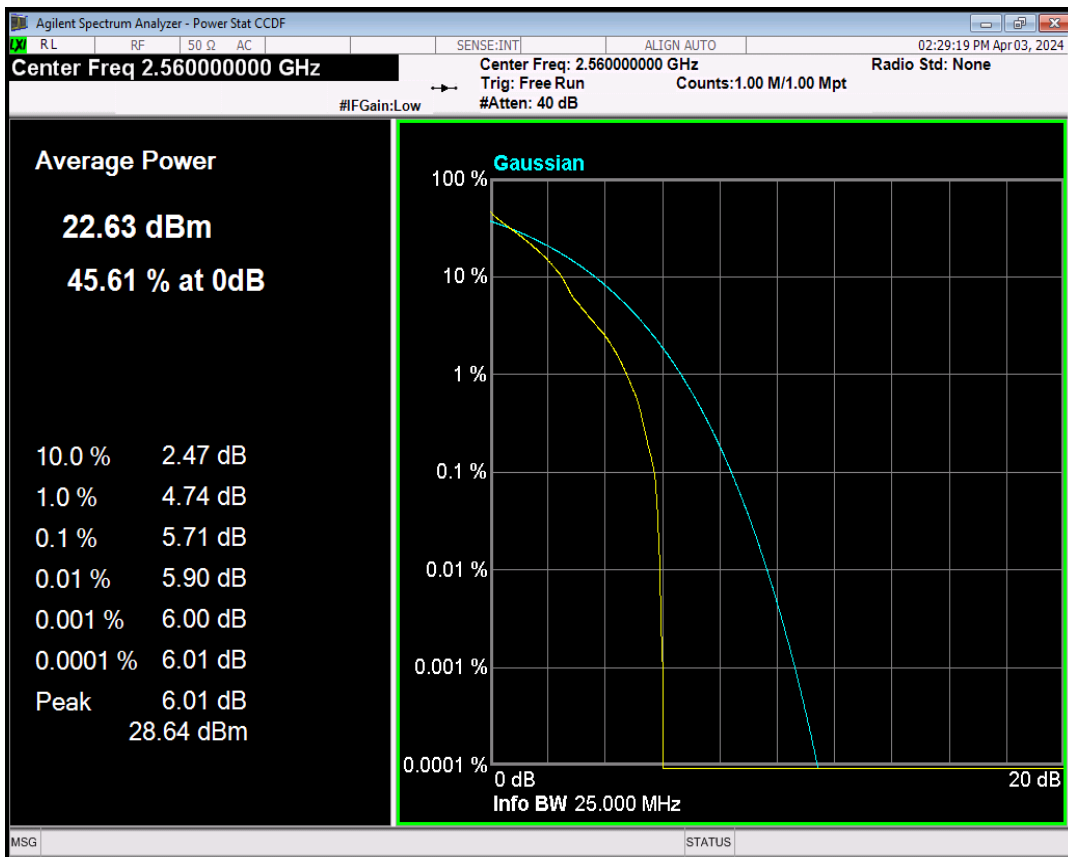


Band7 QPSK BW=20MHz Channel=21100 RB Size=1 Position=#0





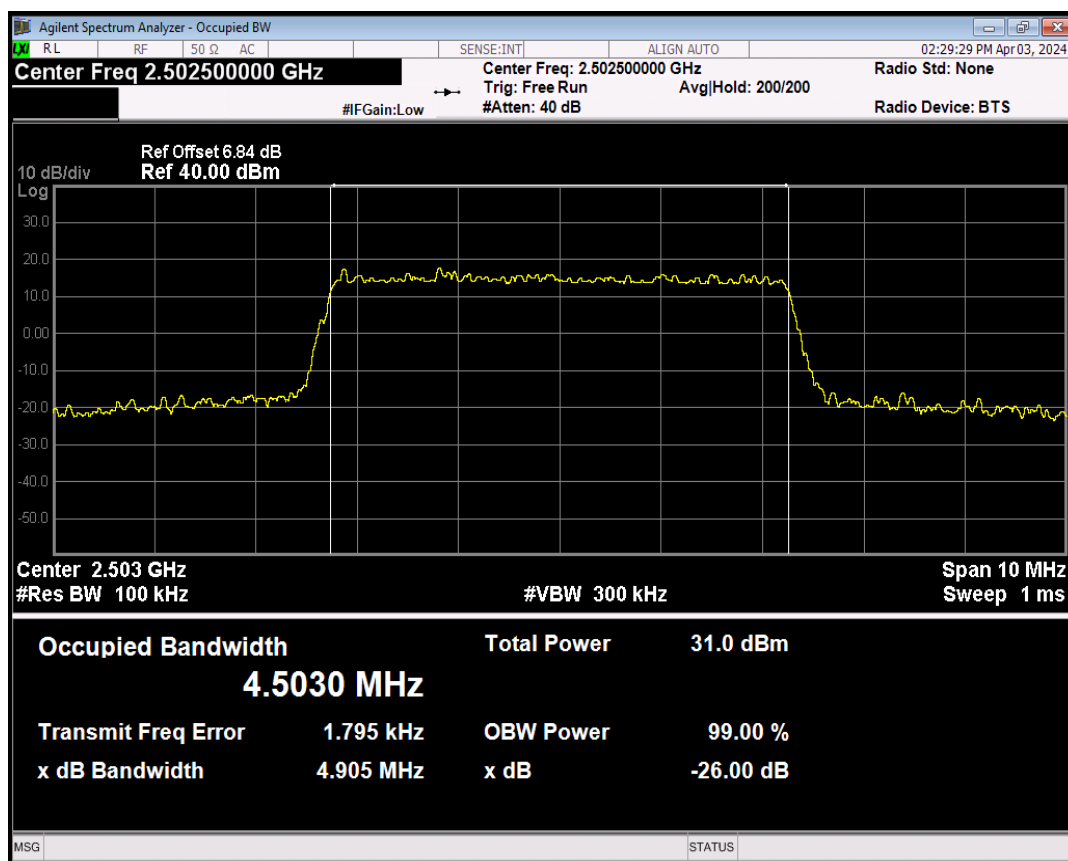
Band7 QPSK BW=20MHz Channel=21350 RB Size=1 Position=#0



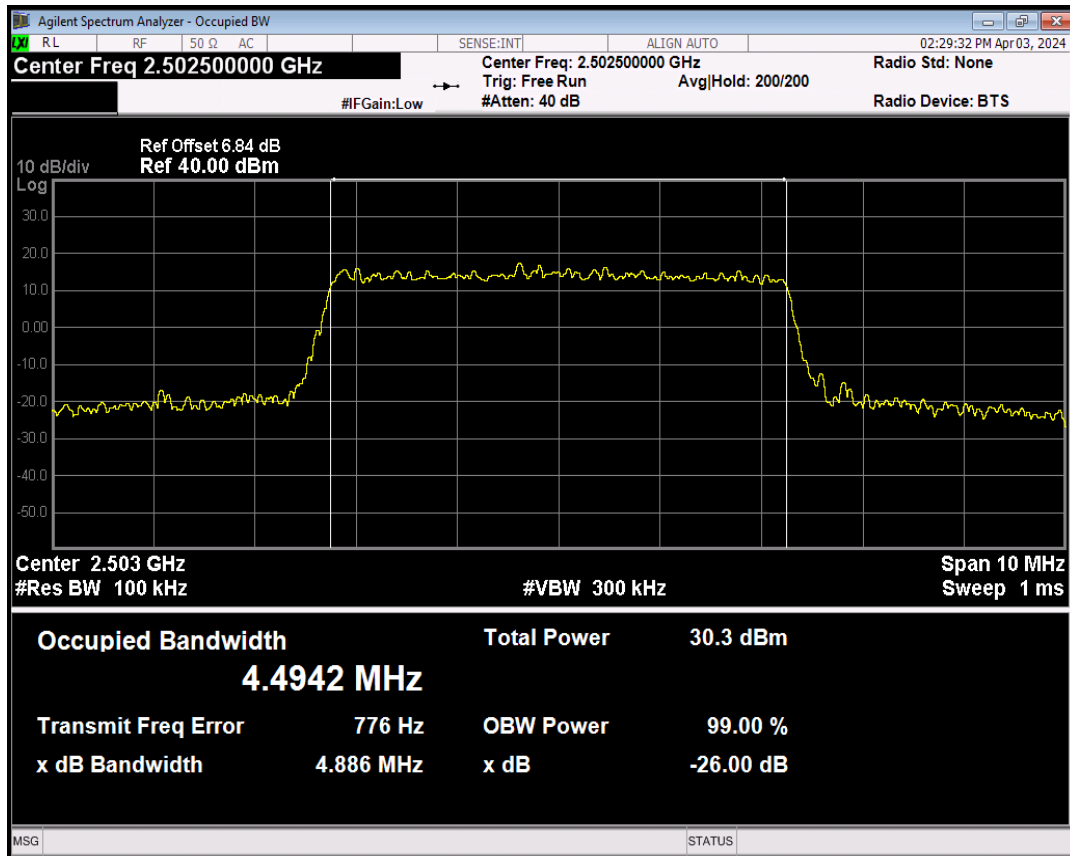
Appendix 4. Occupied bandwidth

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

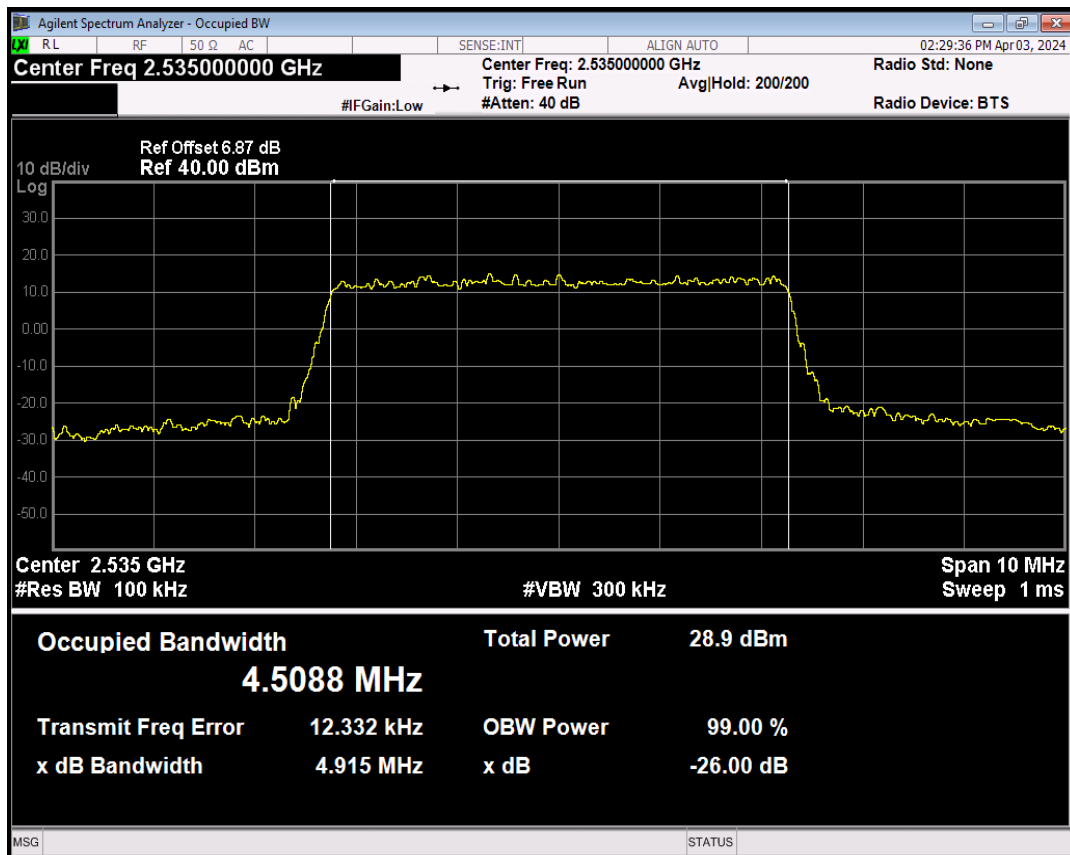
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



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

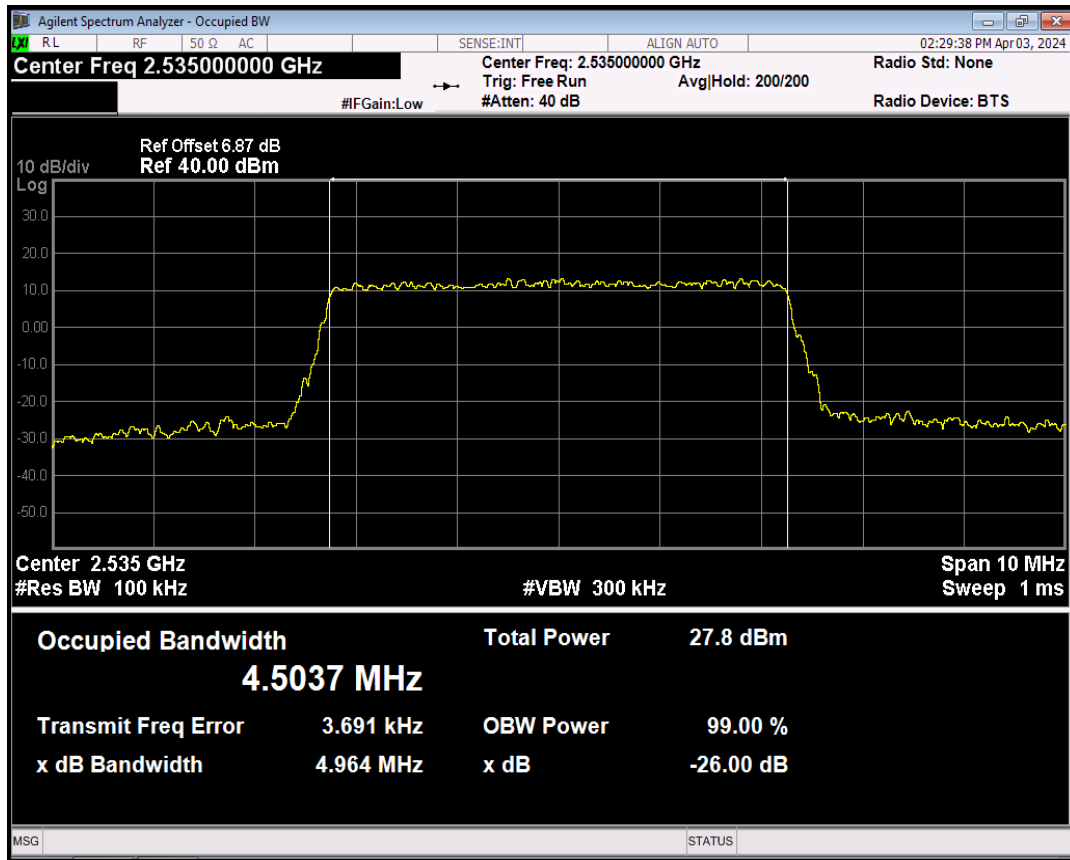


Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0

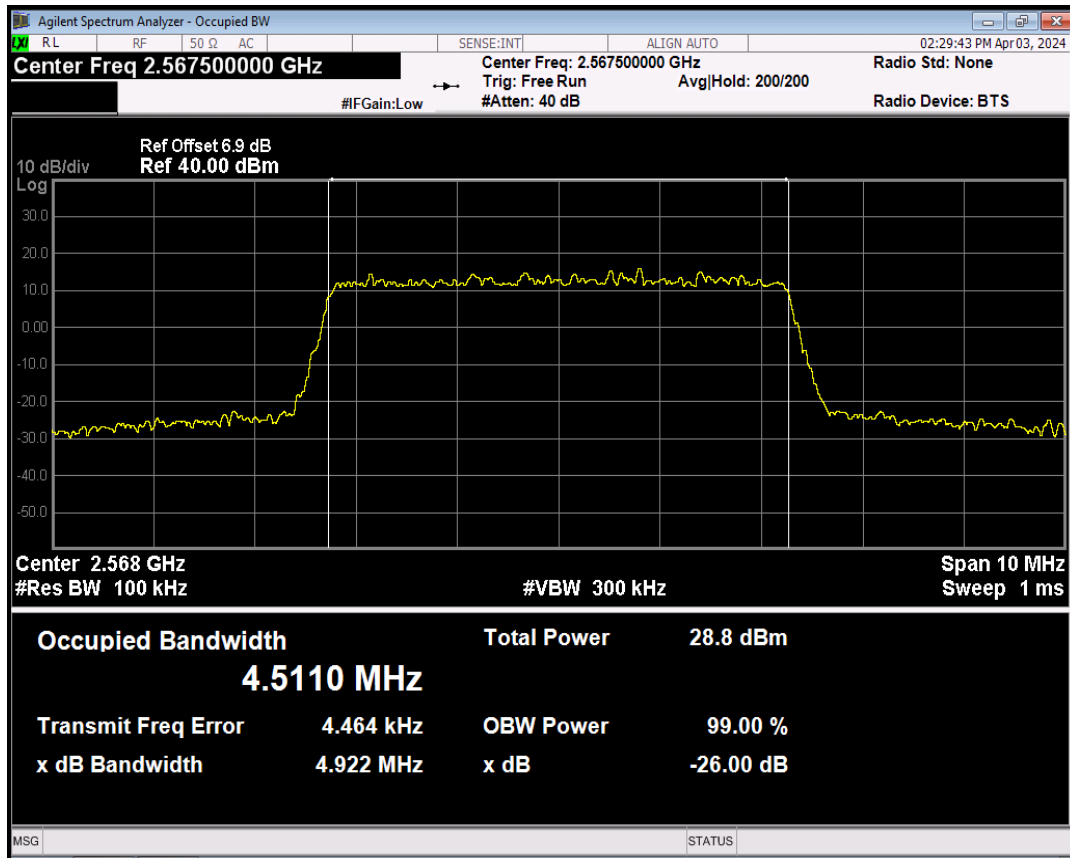




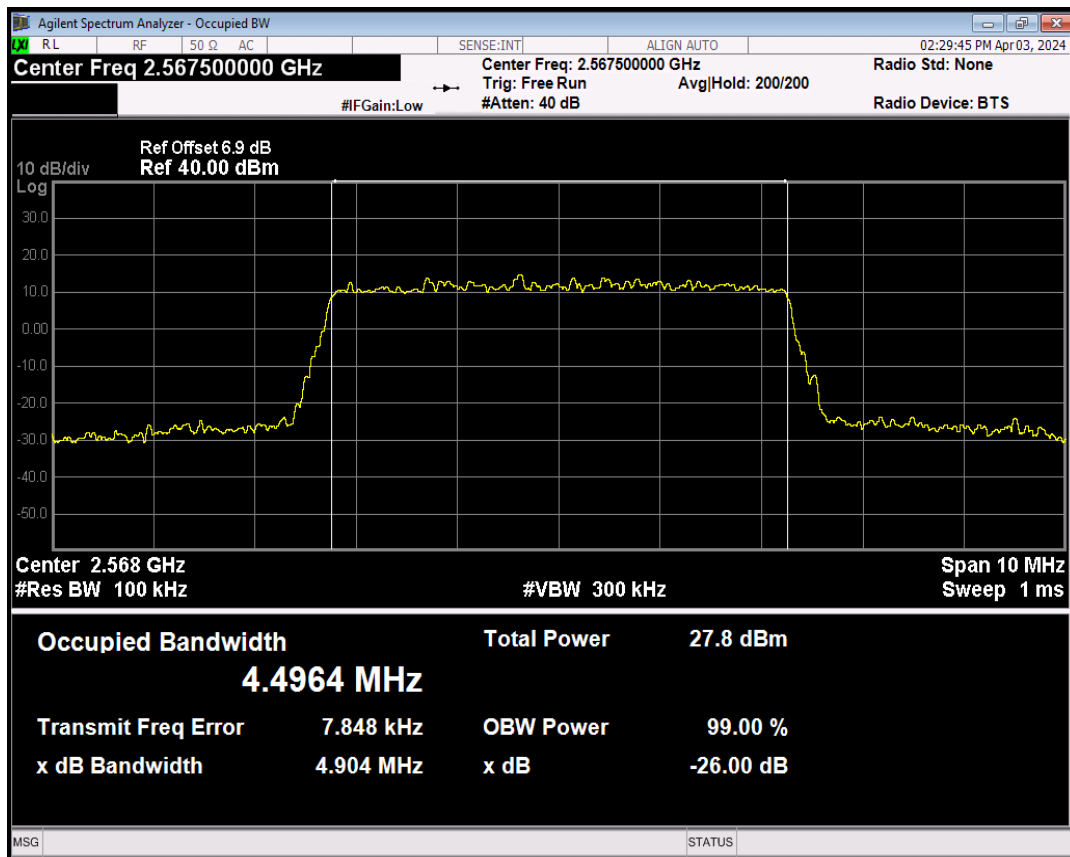
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



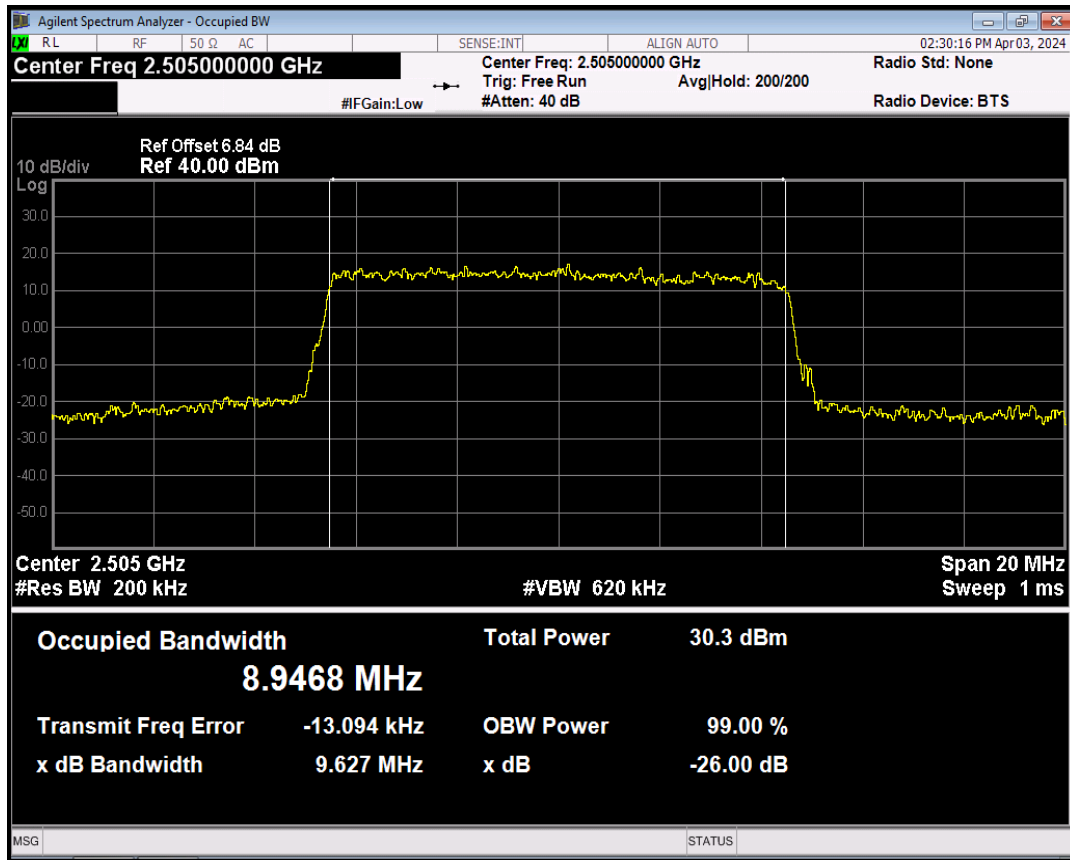
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



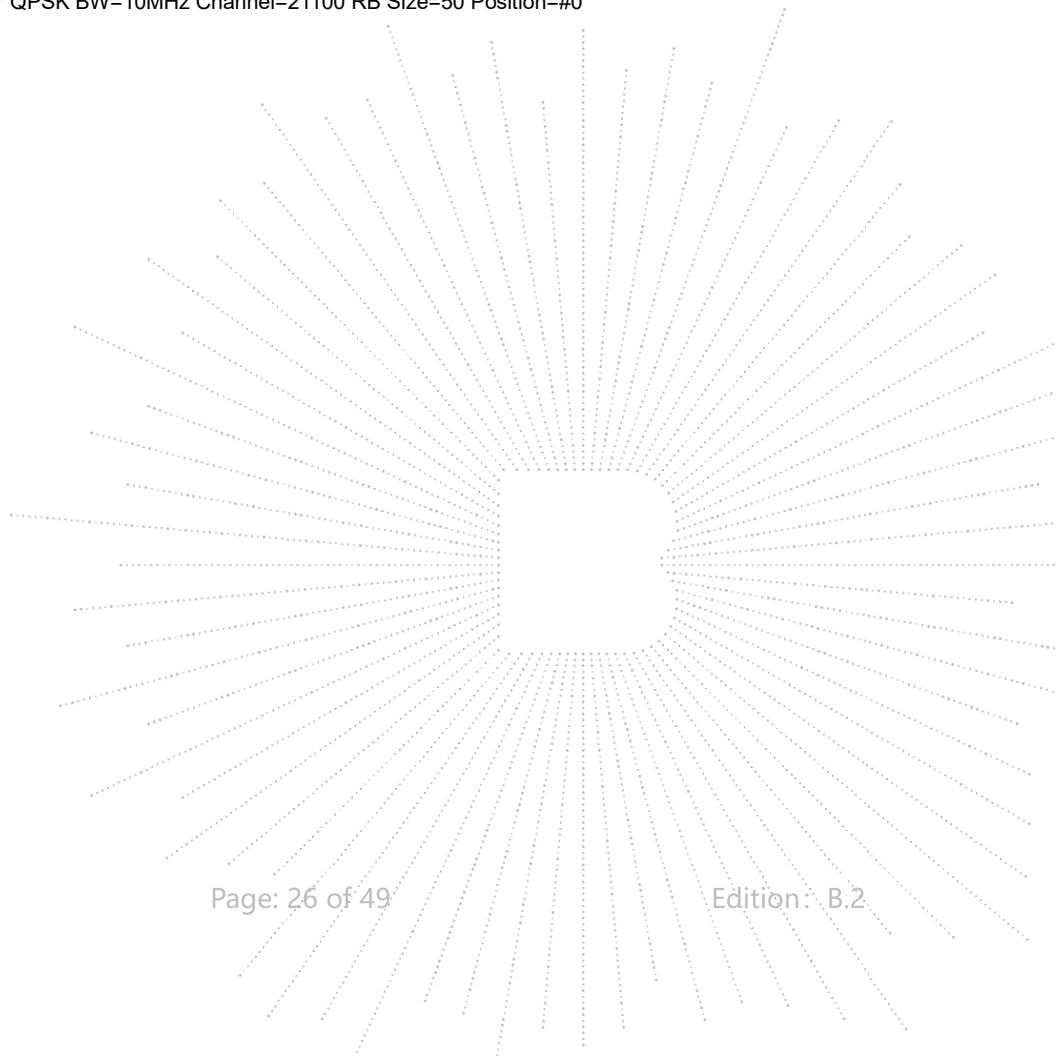
Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0

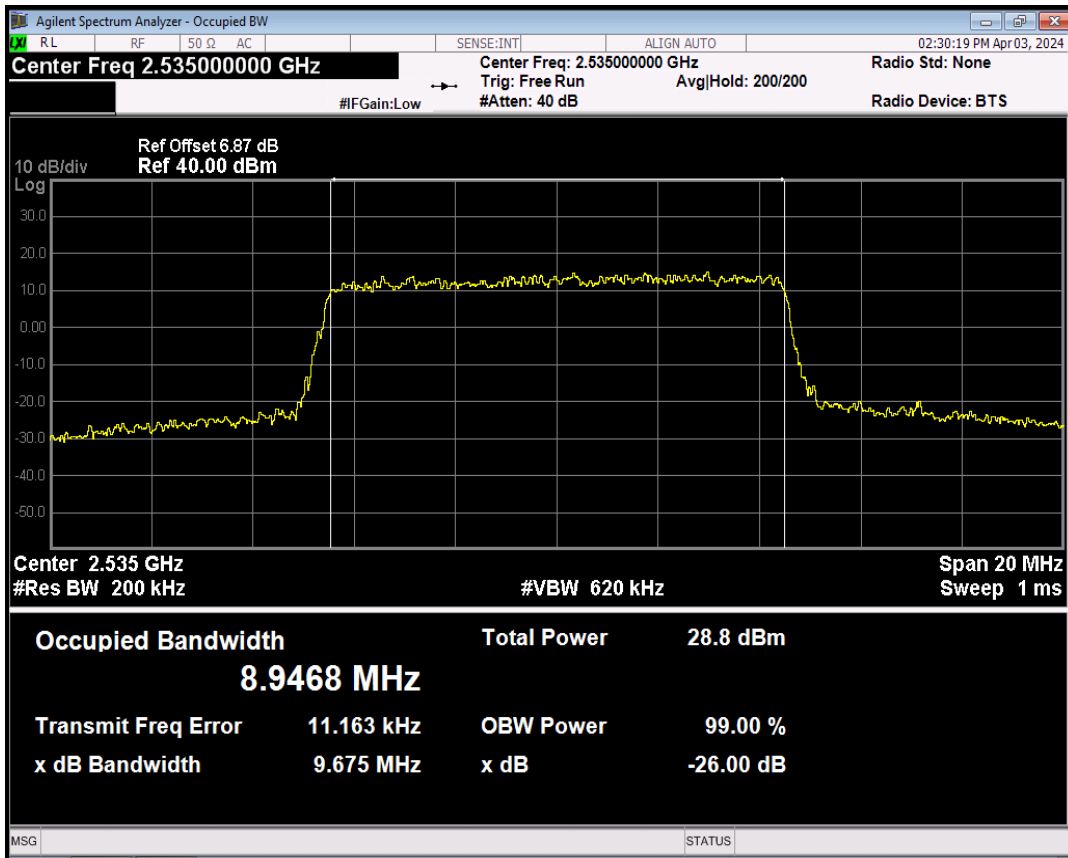


Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0

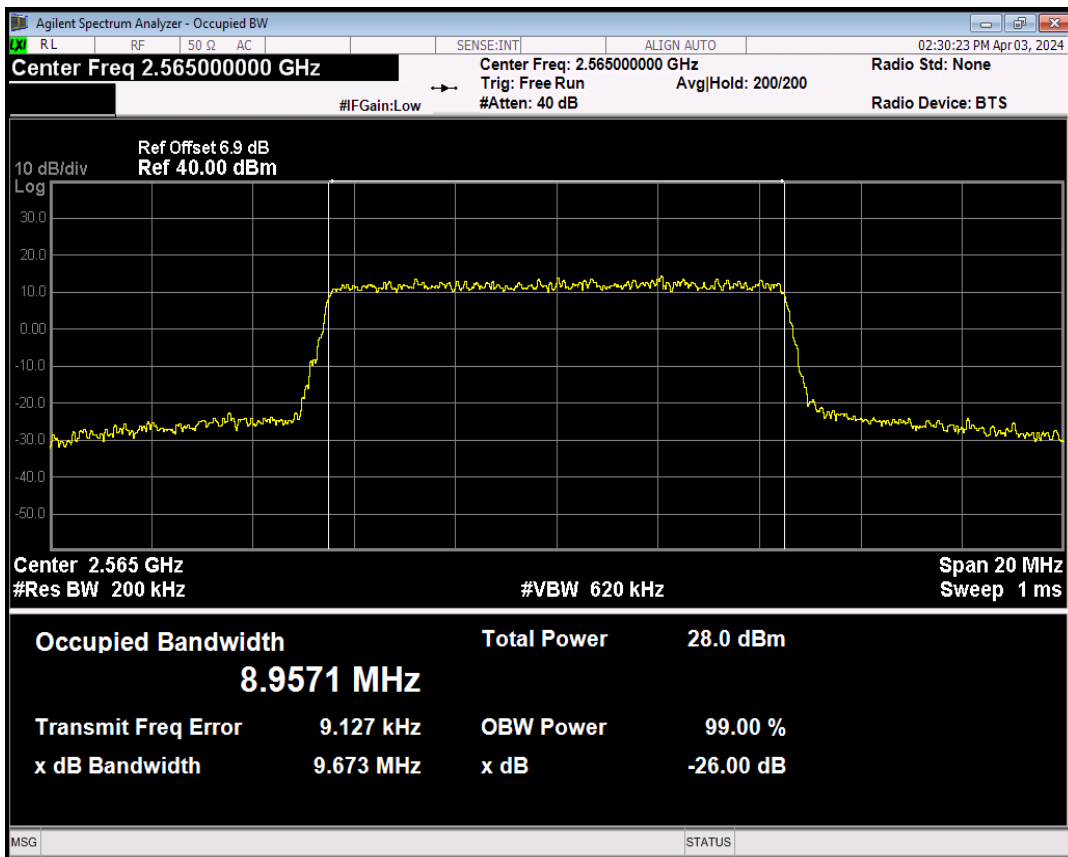


Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0

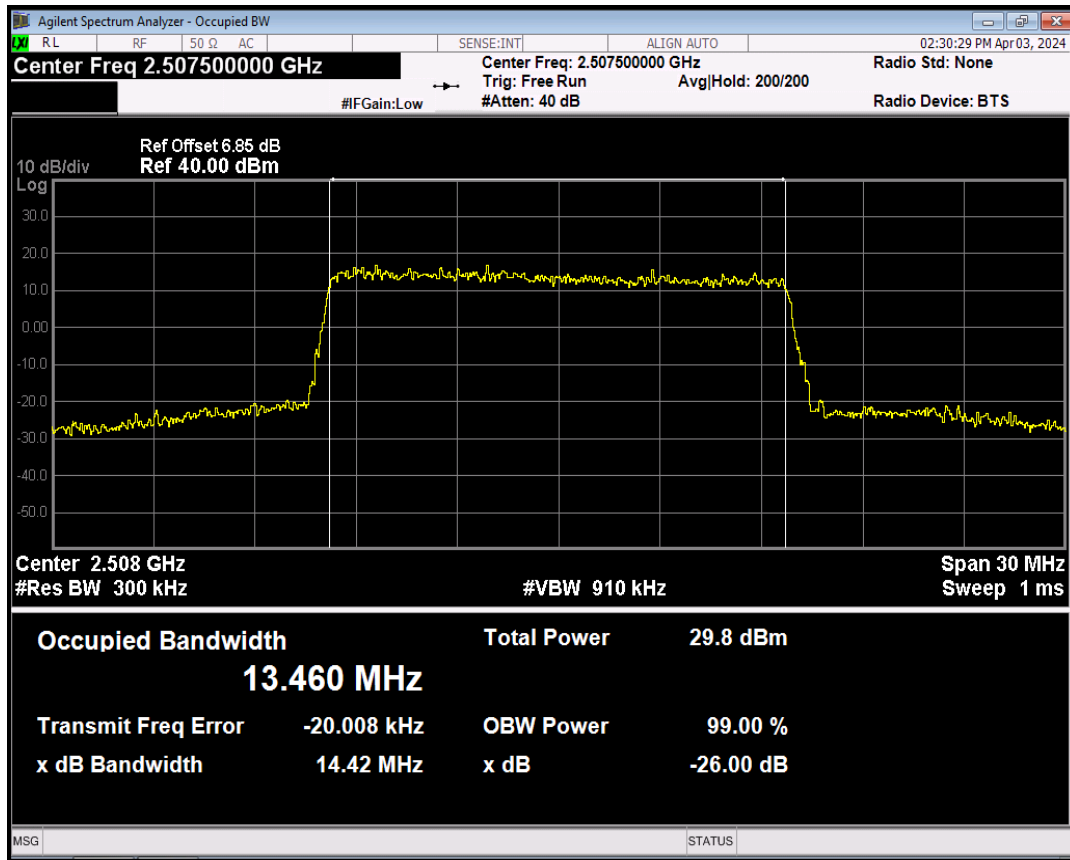




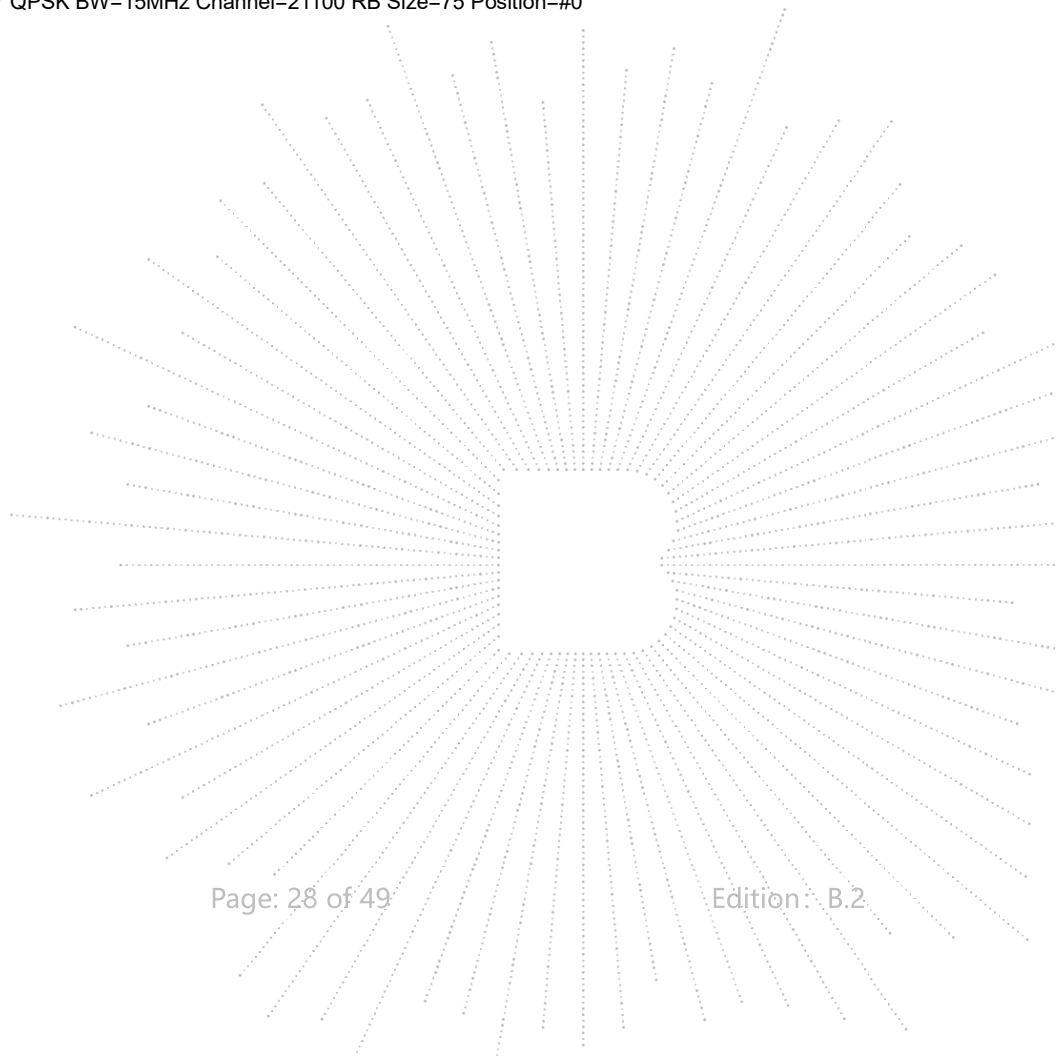
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0

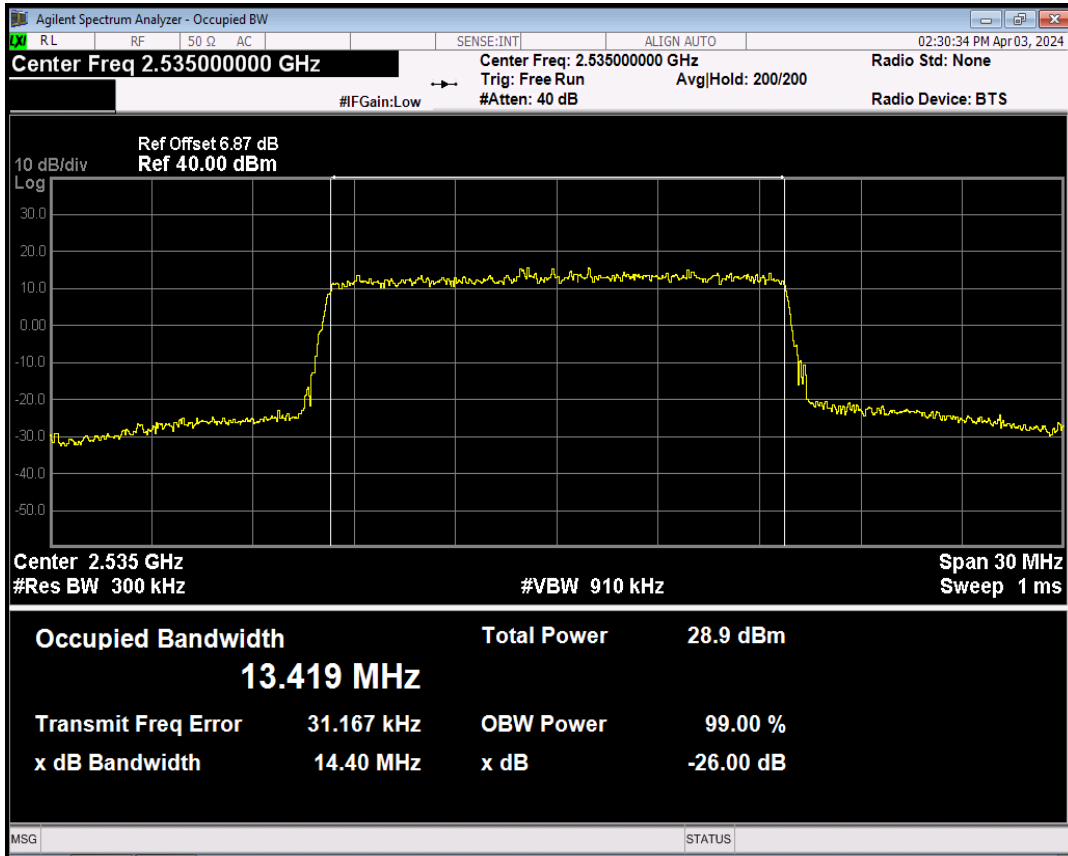


Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0

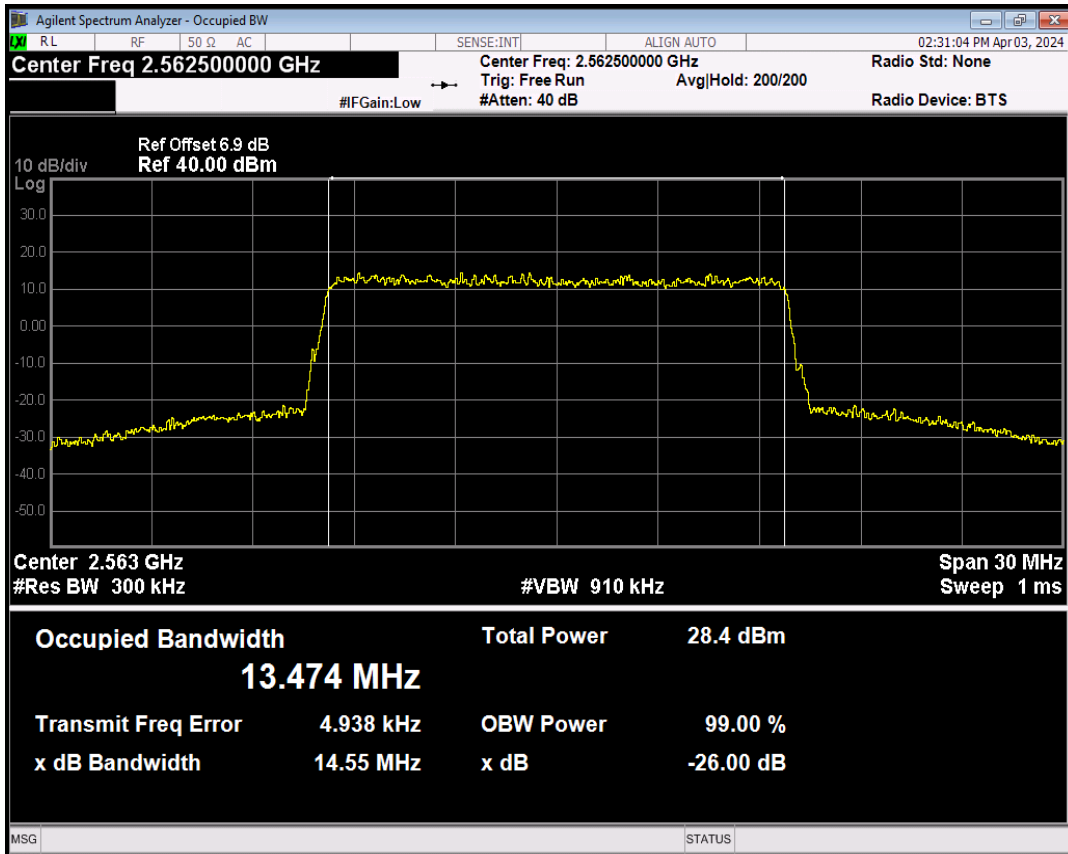


Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0

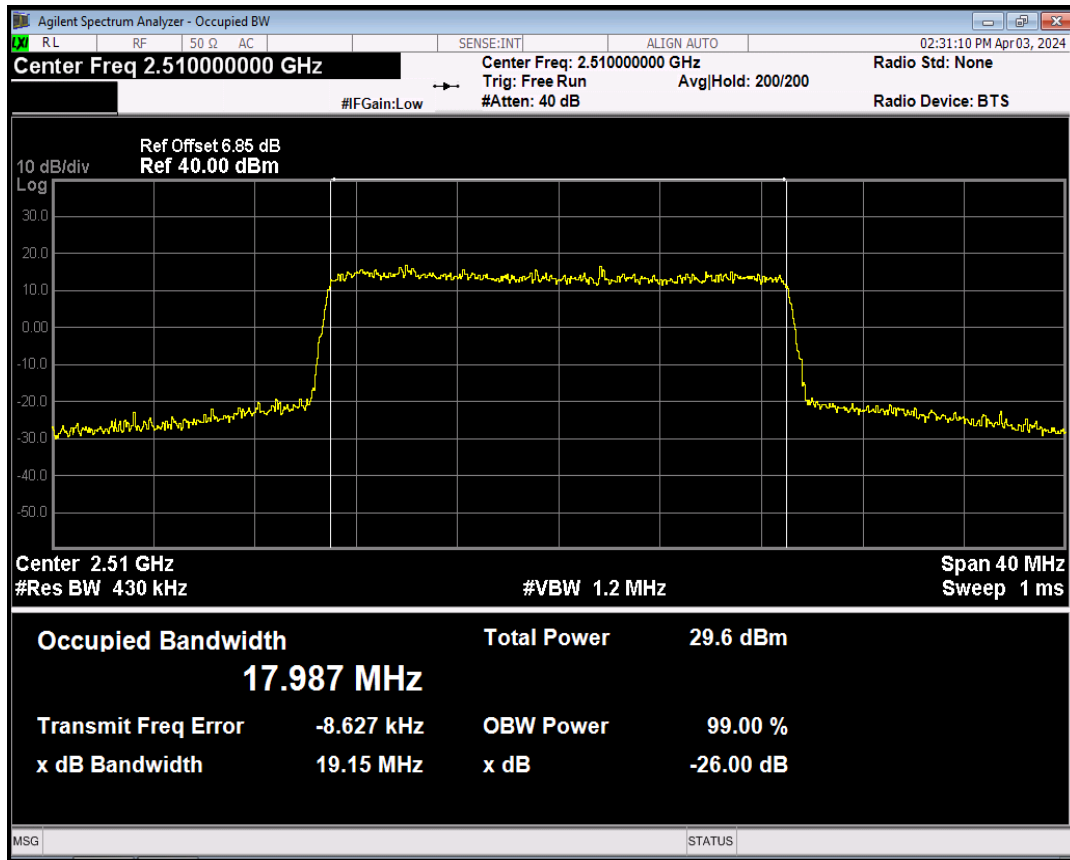




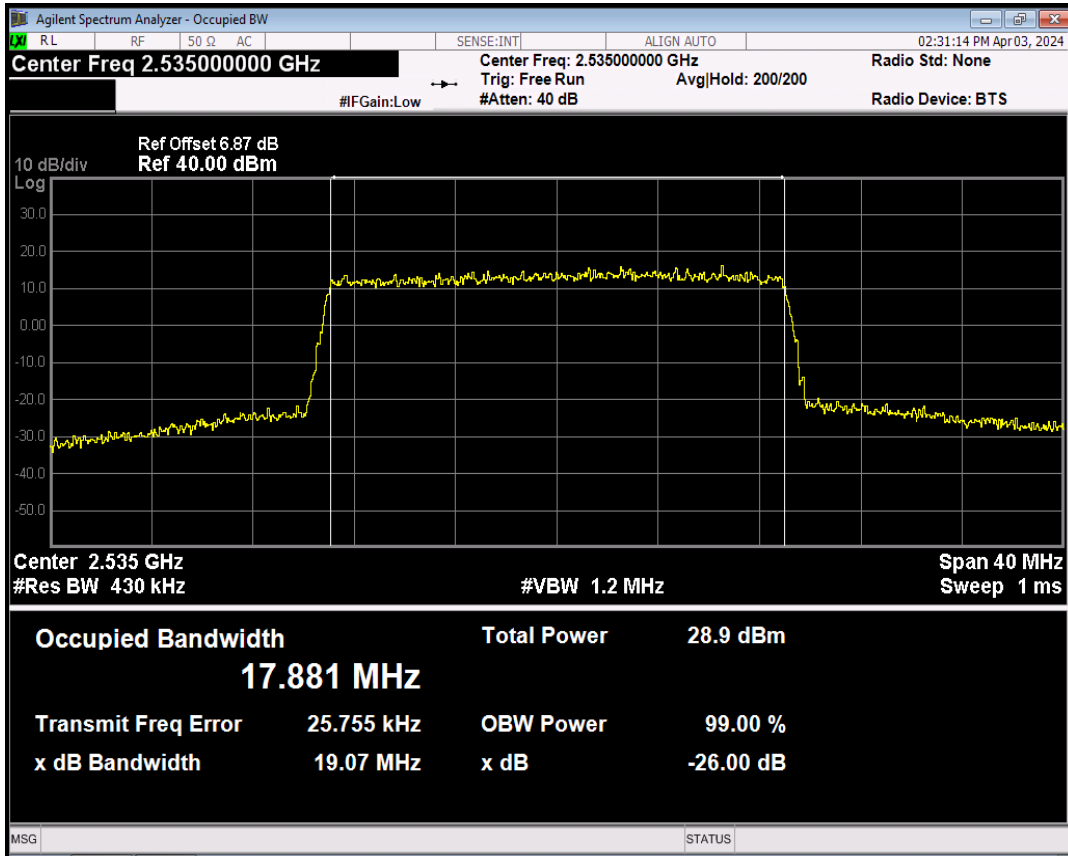
Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



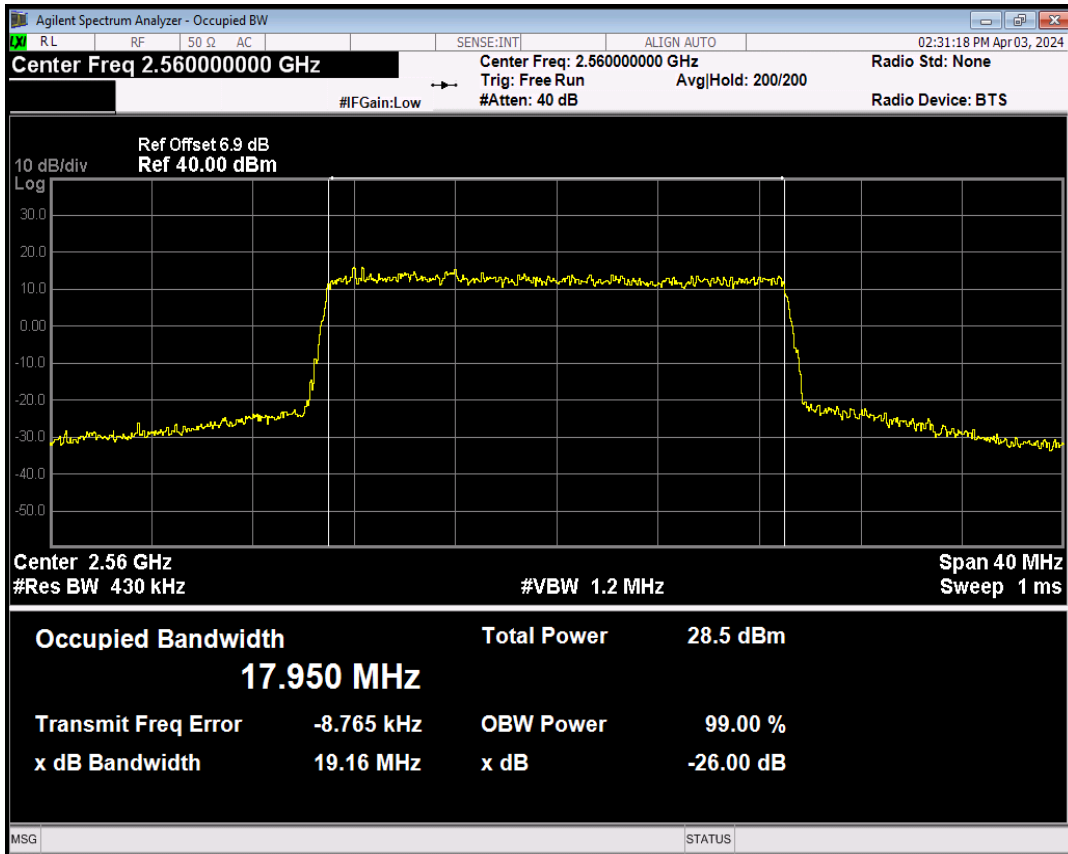
Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



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



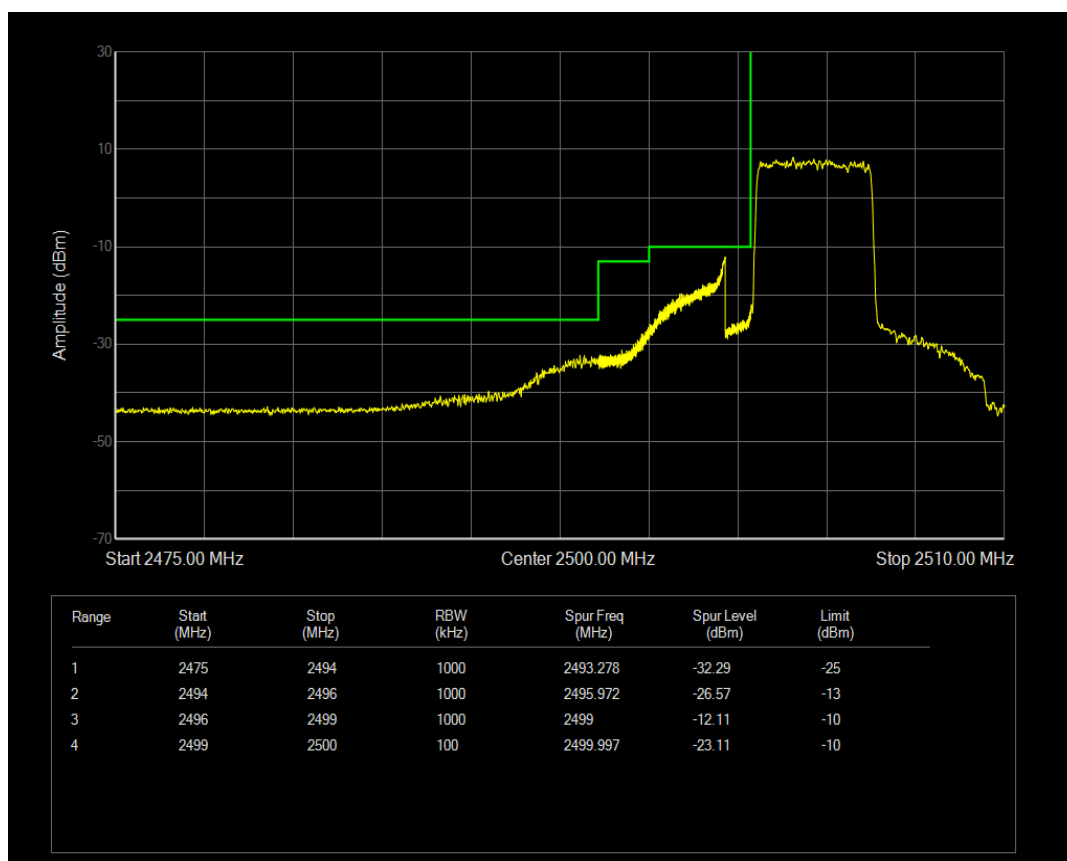
Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



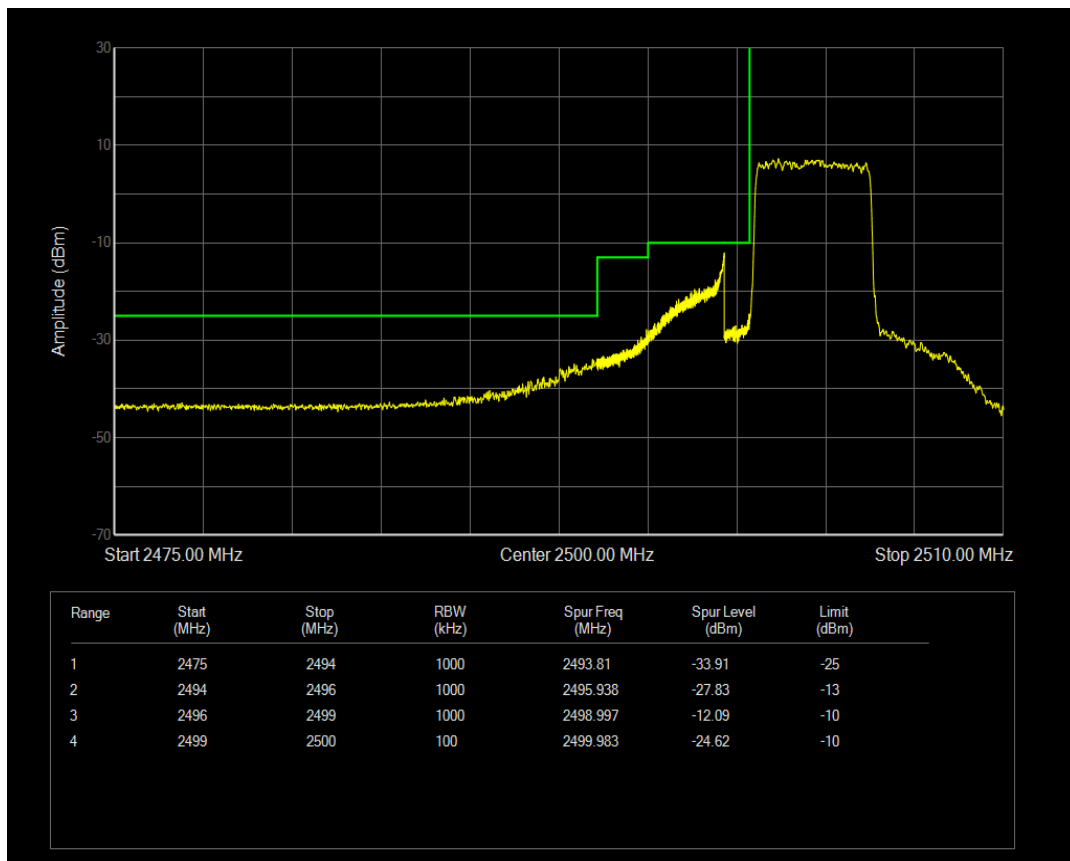
Appendix 5. Band edge

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

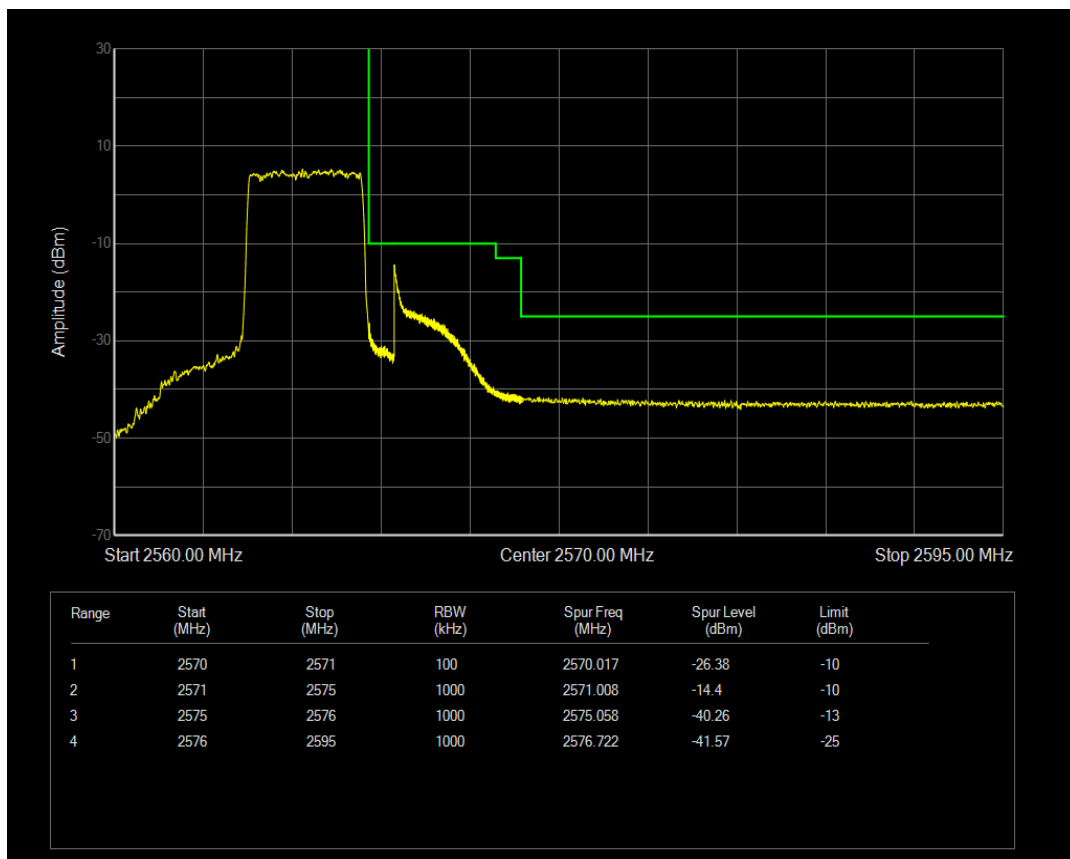
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



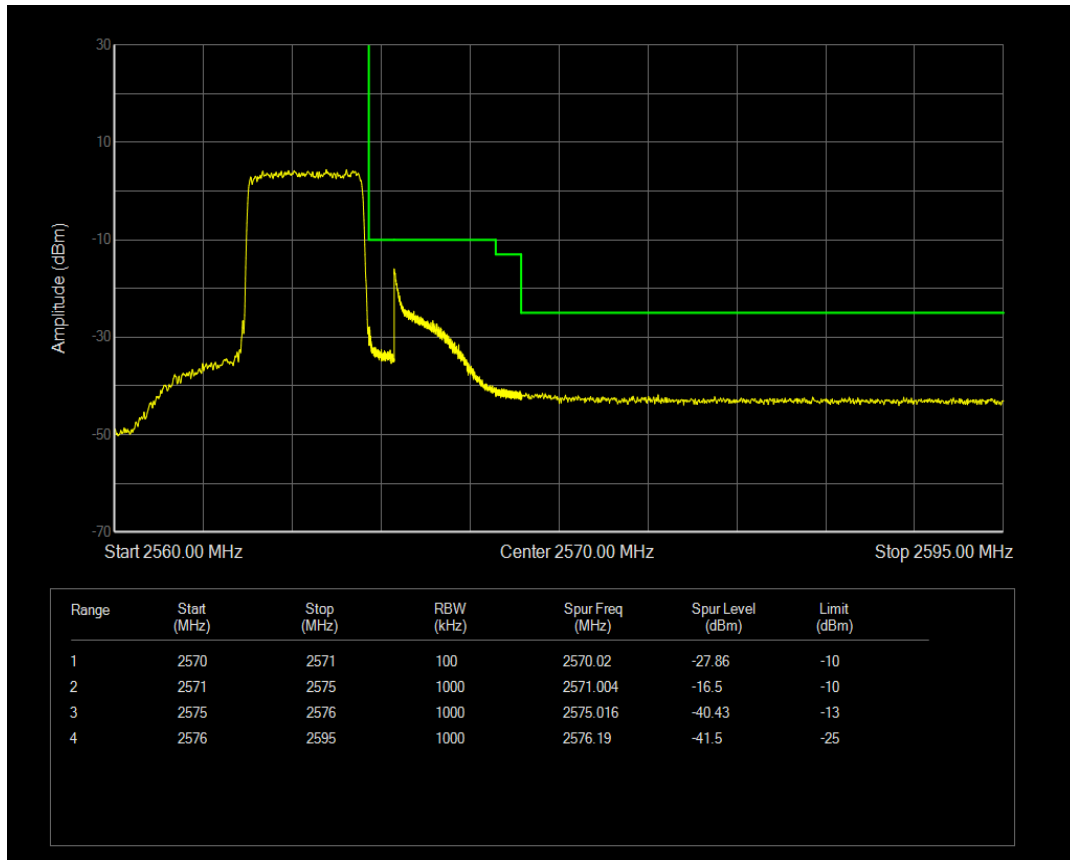
Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



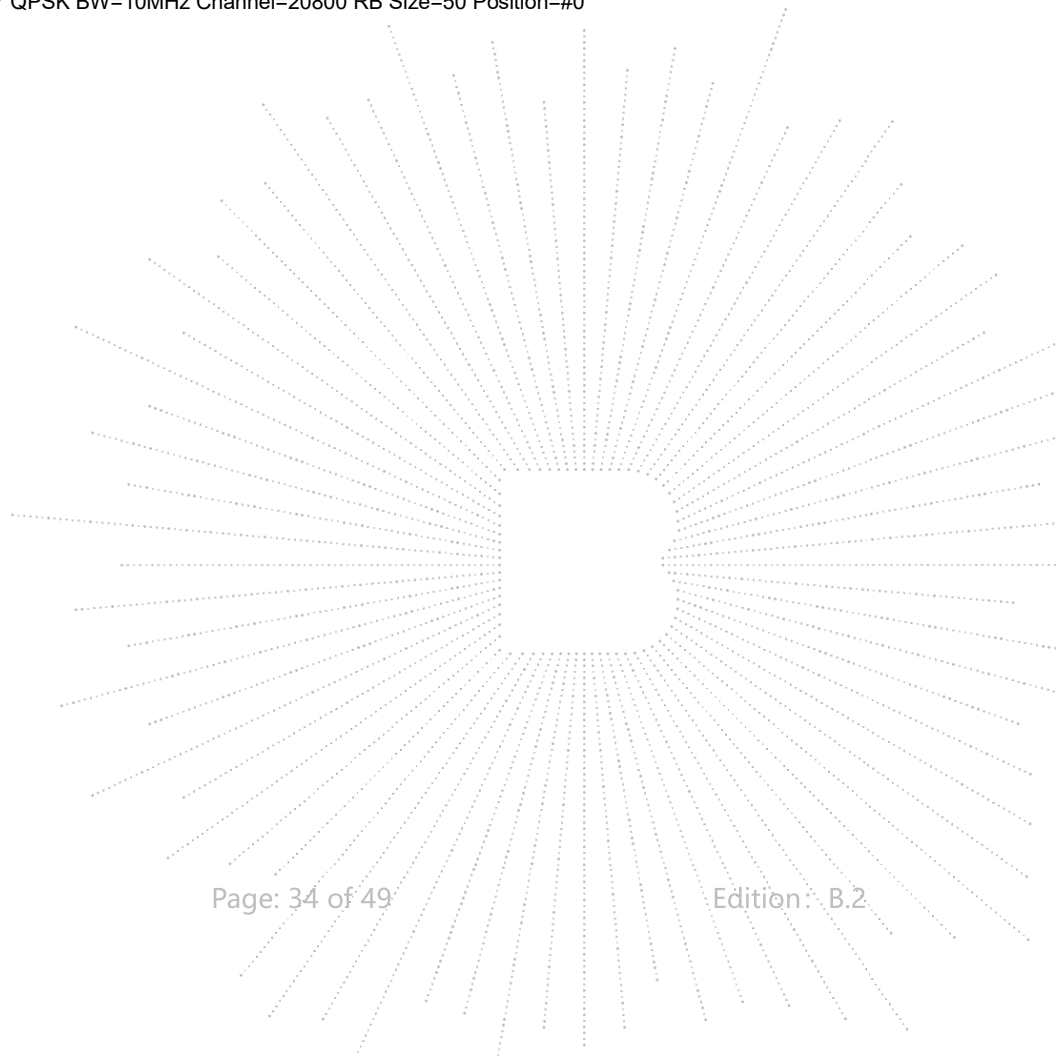
Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0

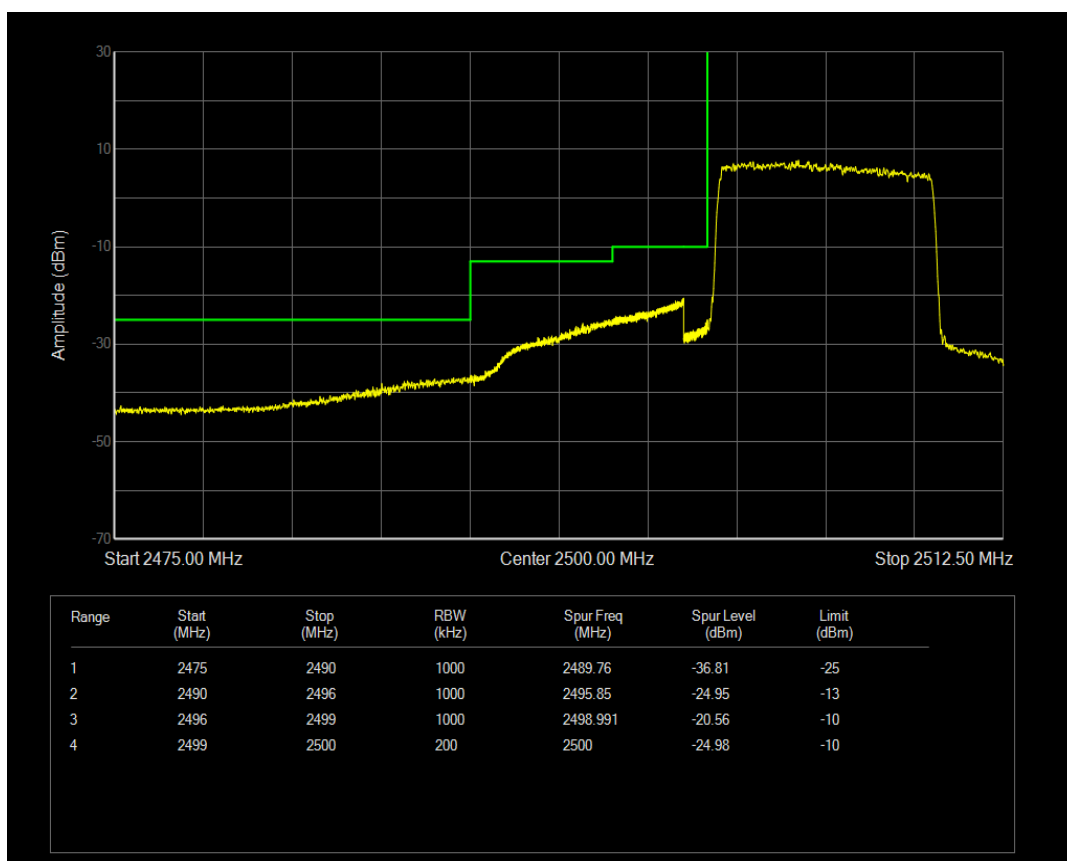


Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0

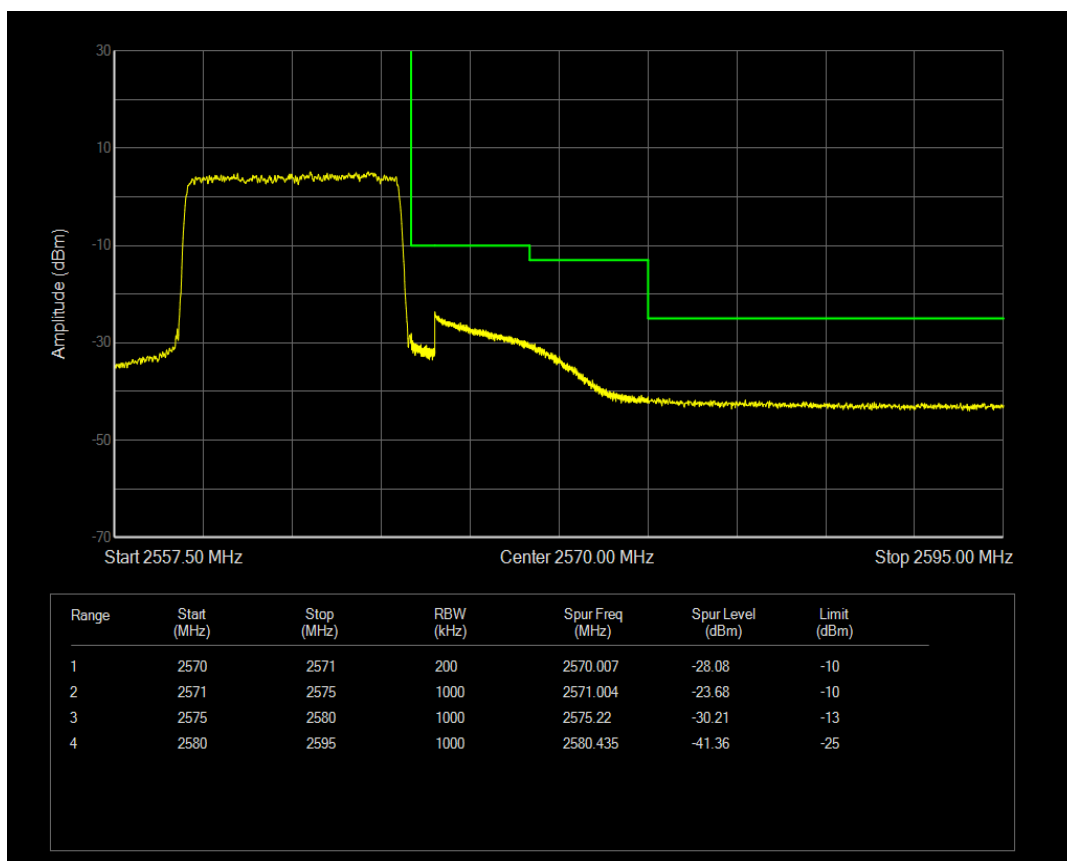


Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0

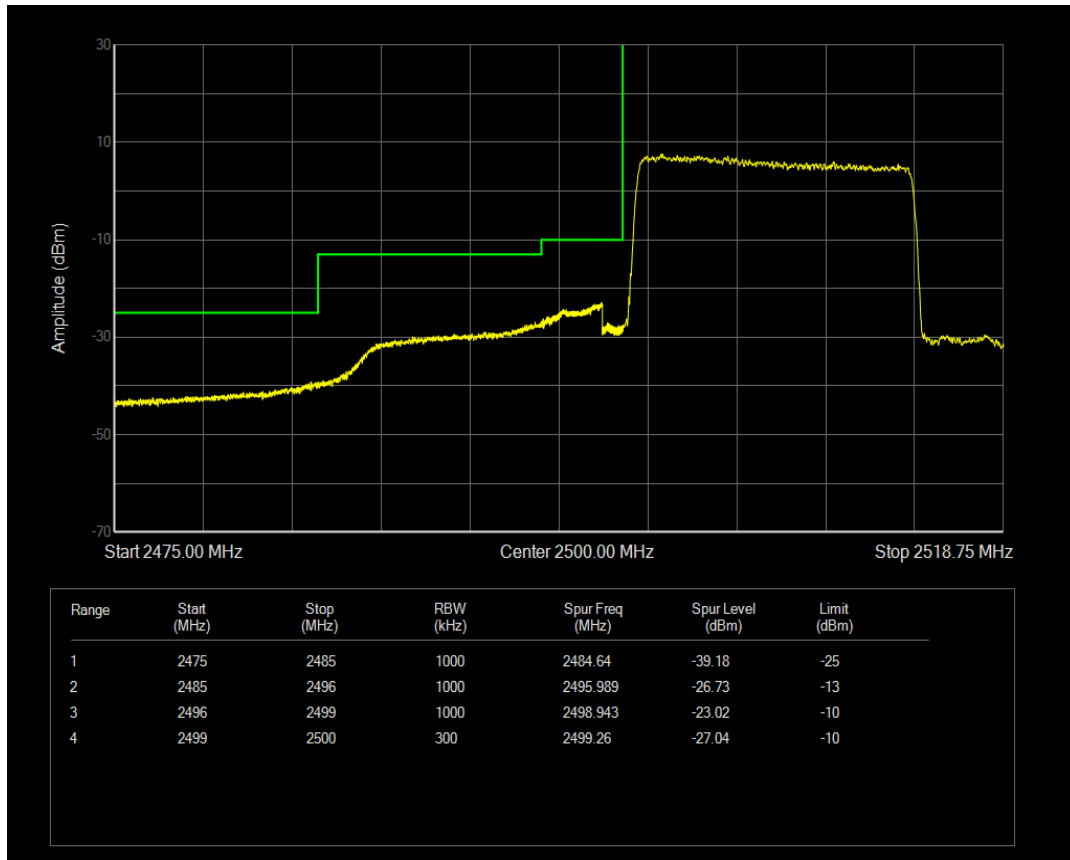




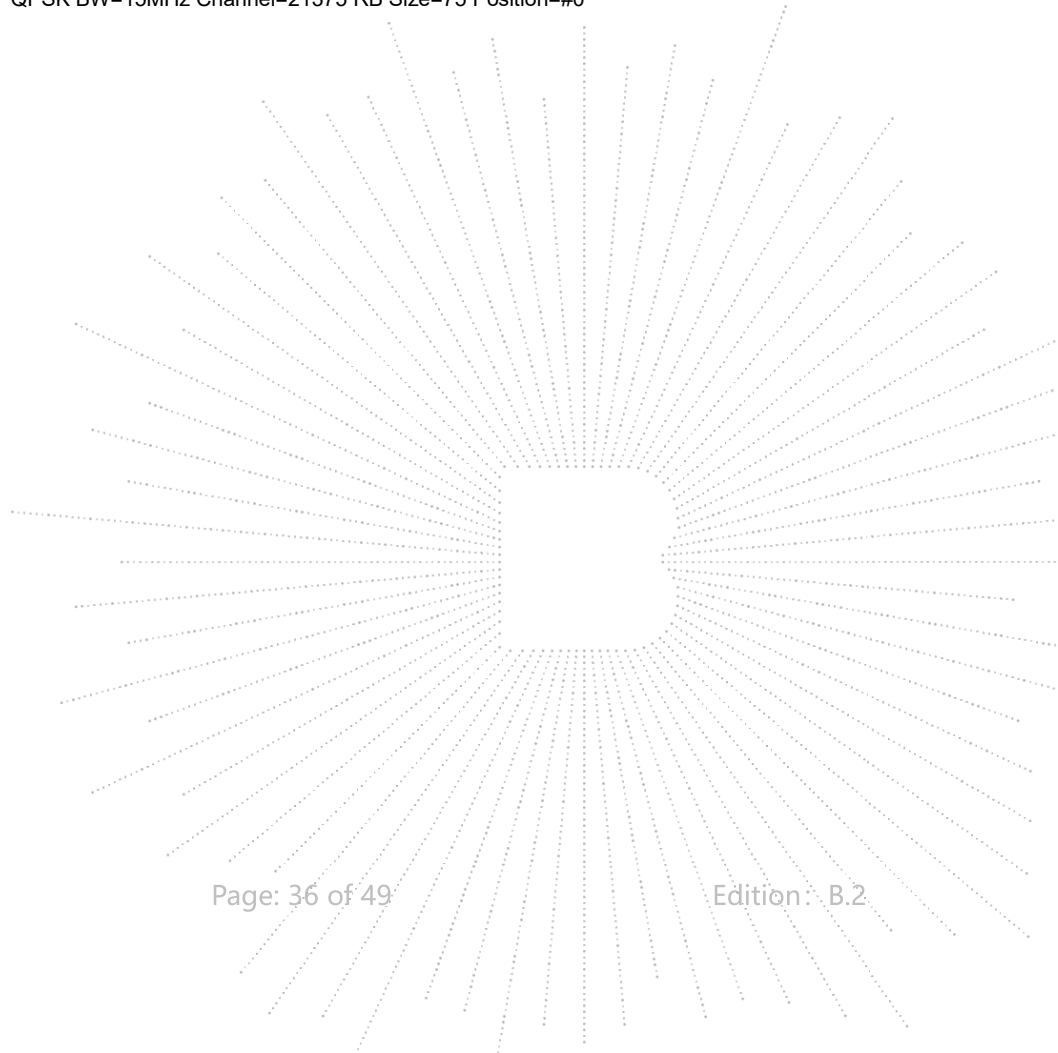
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0

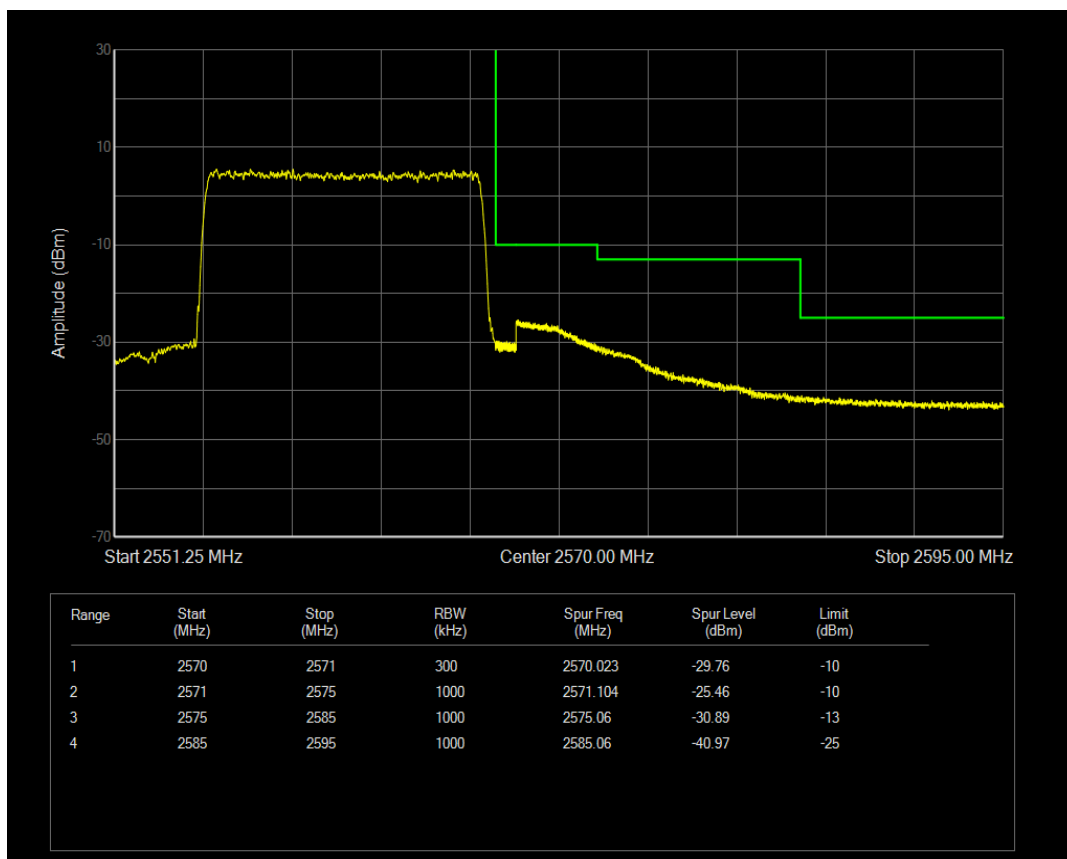


Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0

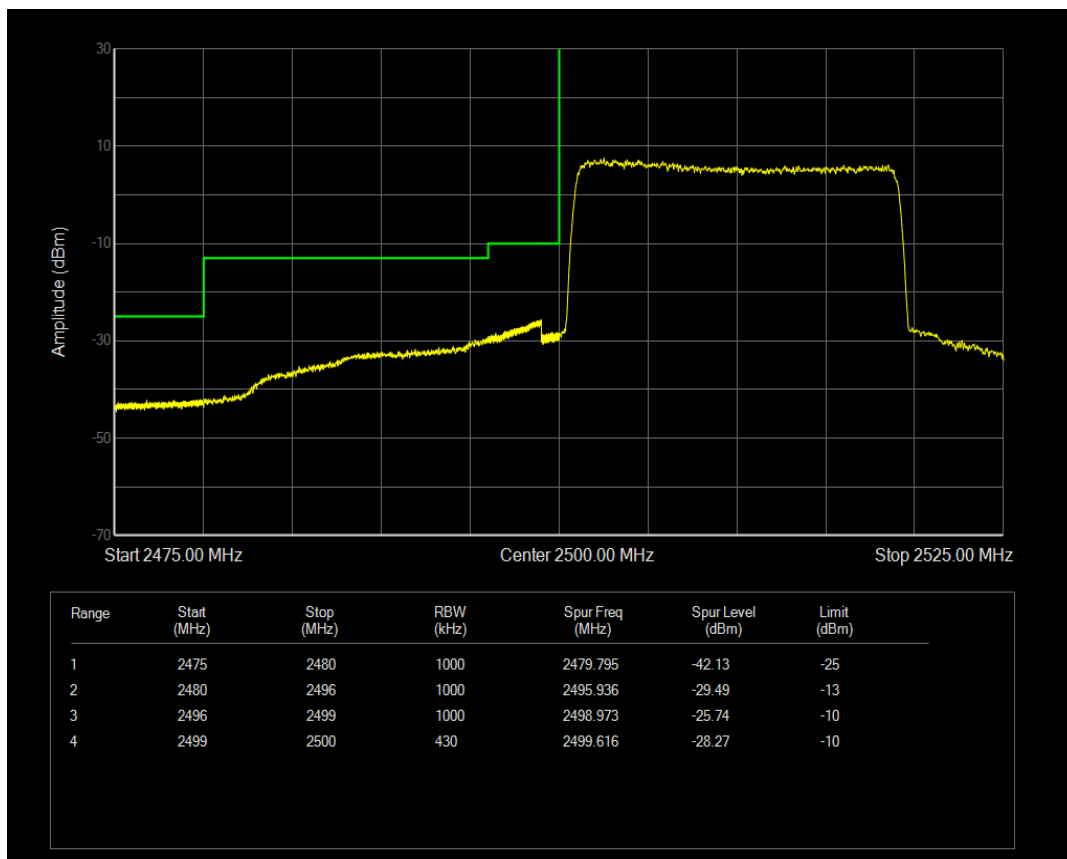


Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



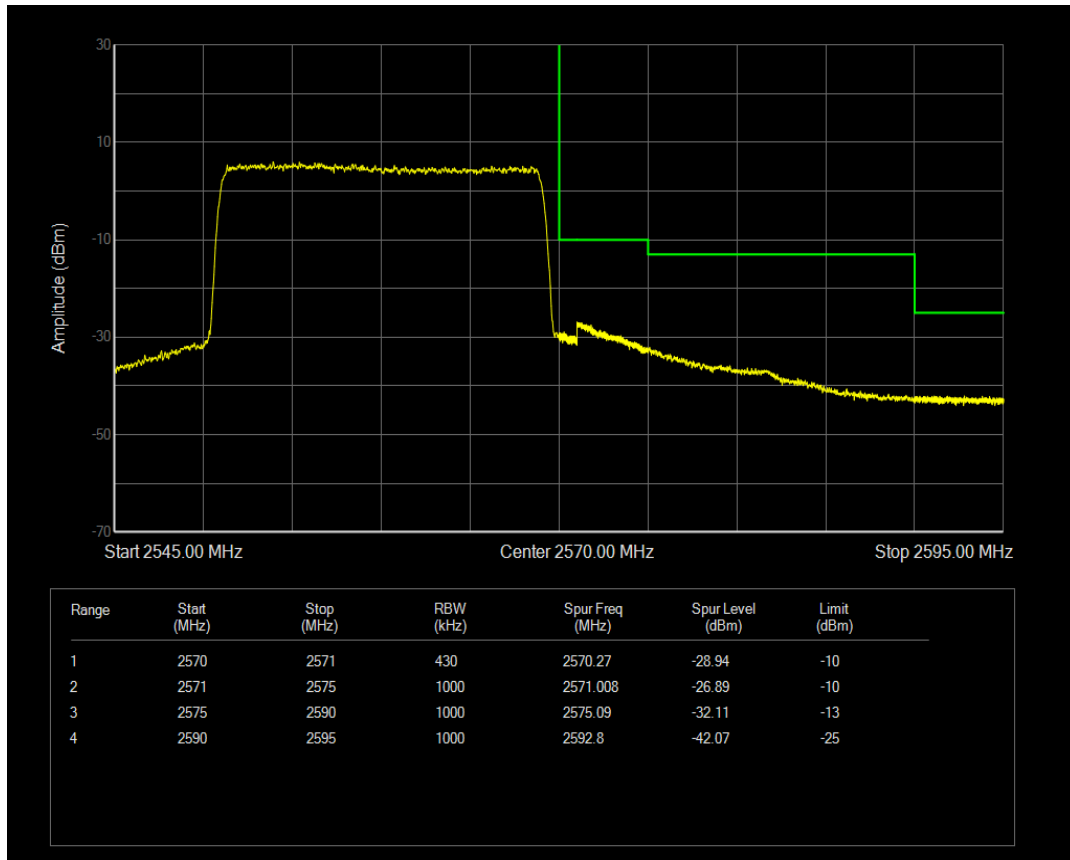


Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0





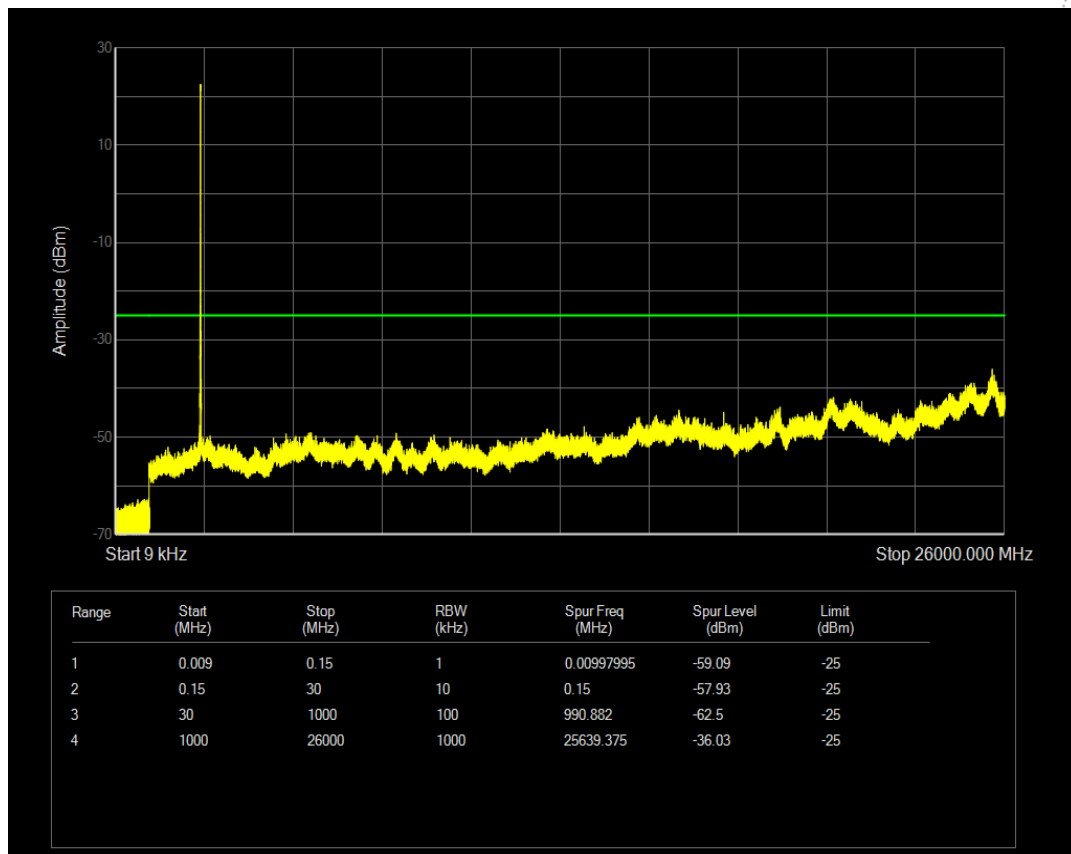
Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



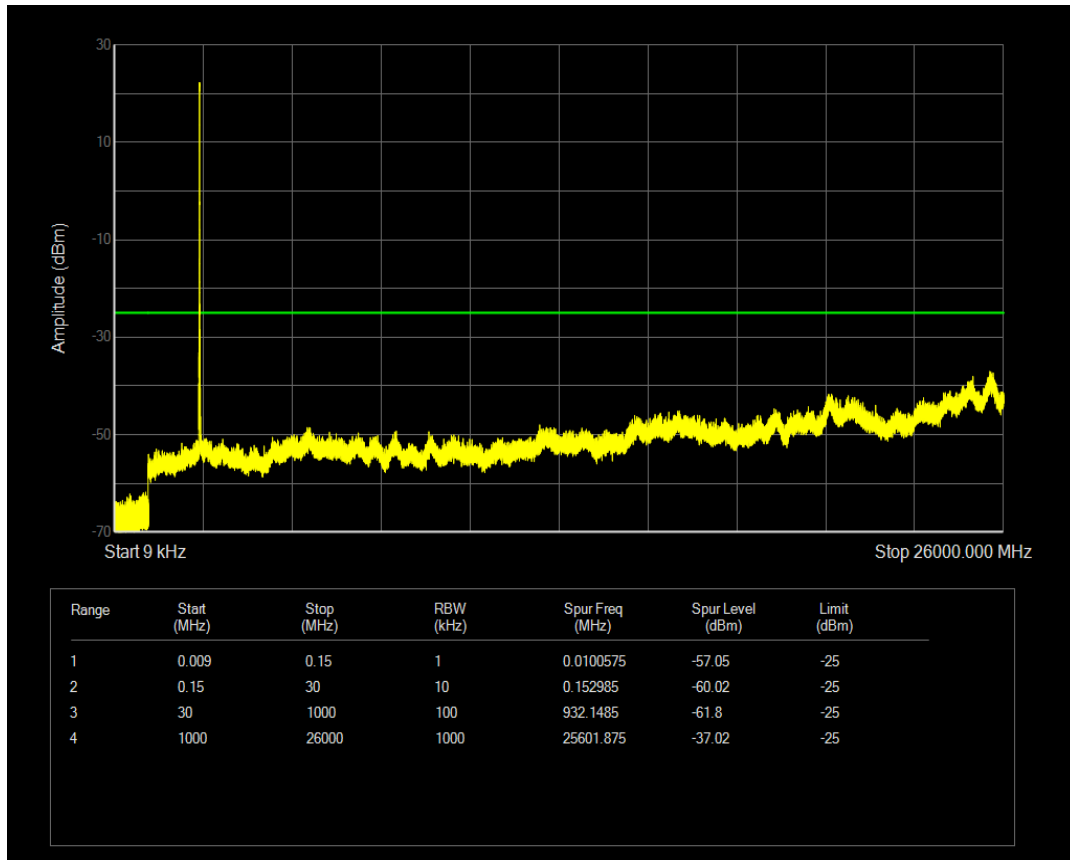
Appendix 6. Out-of-band emissions

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

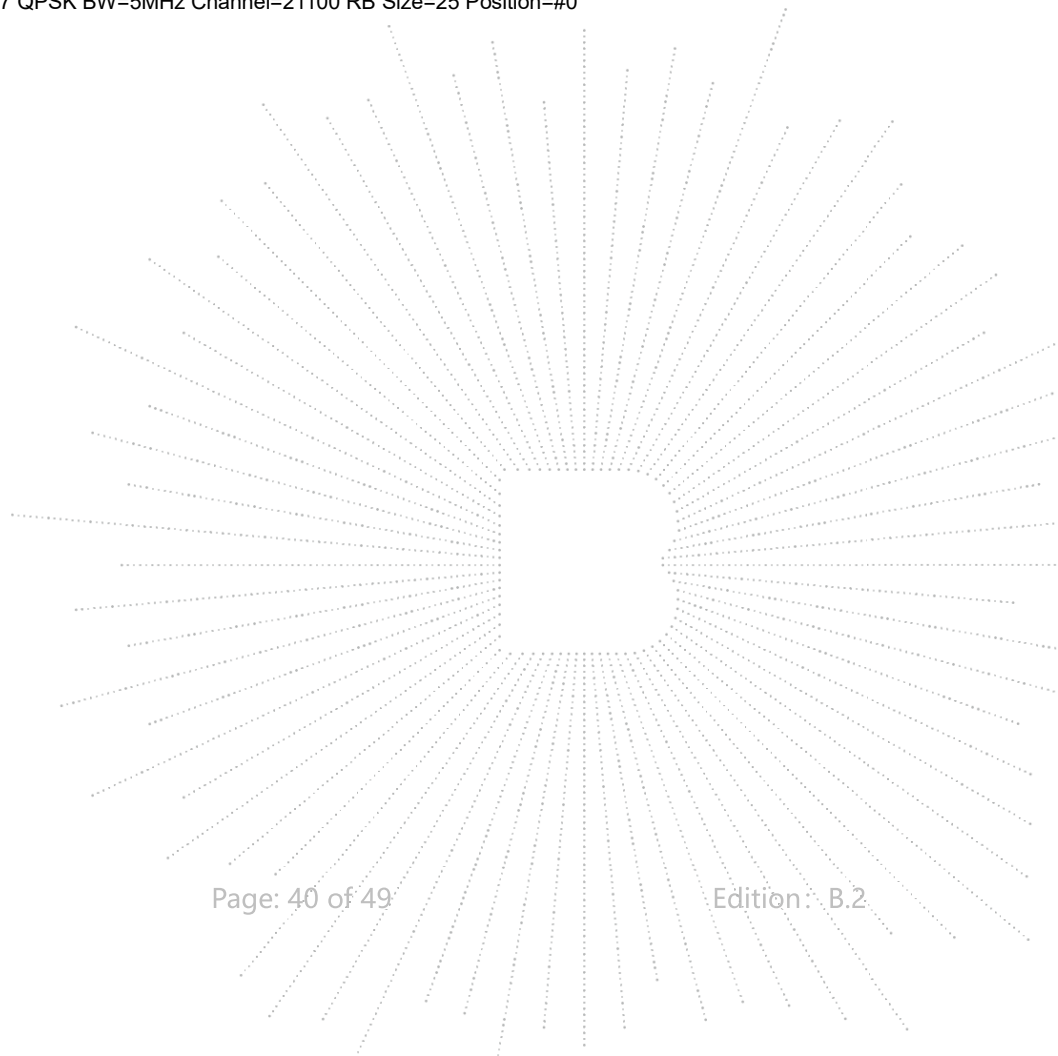
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0

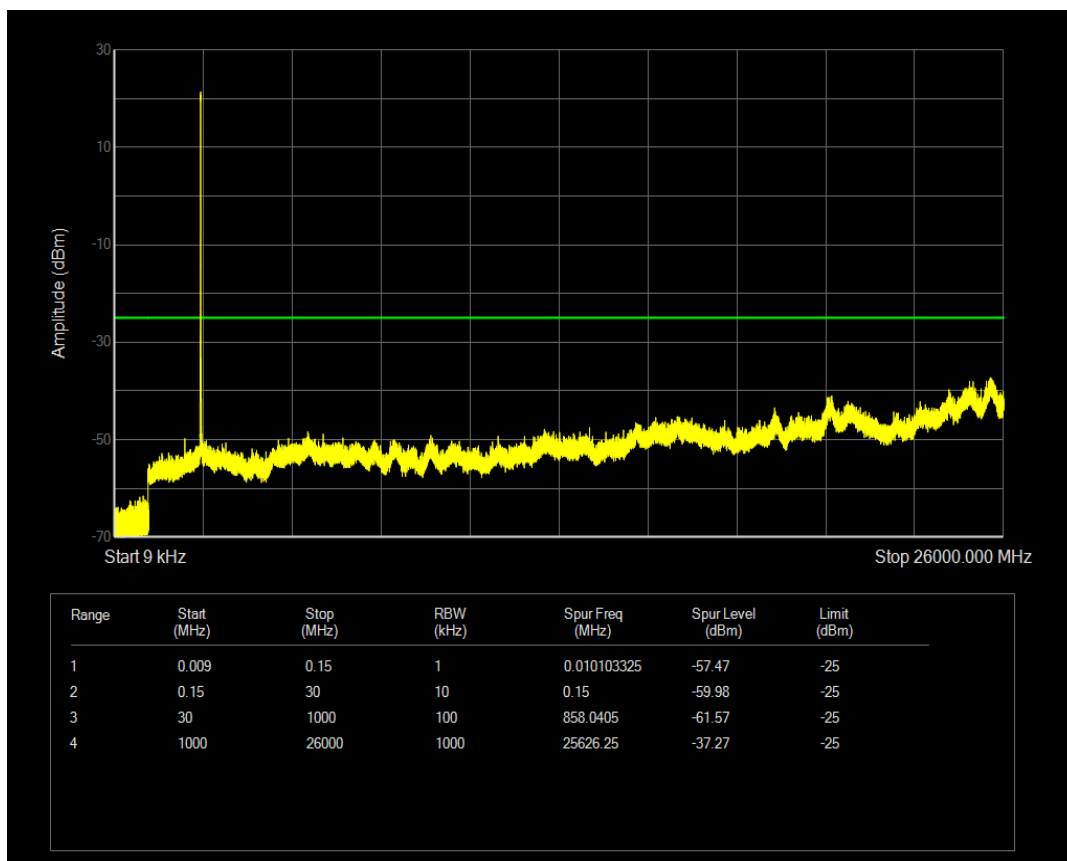


Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0

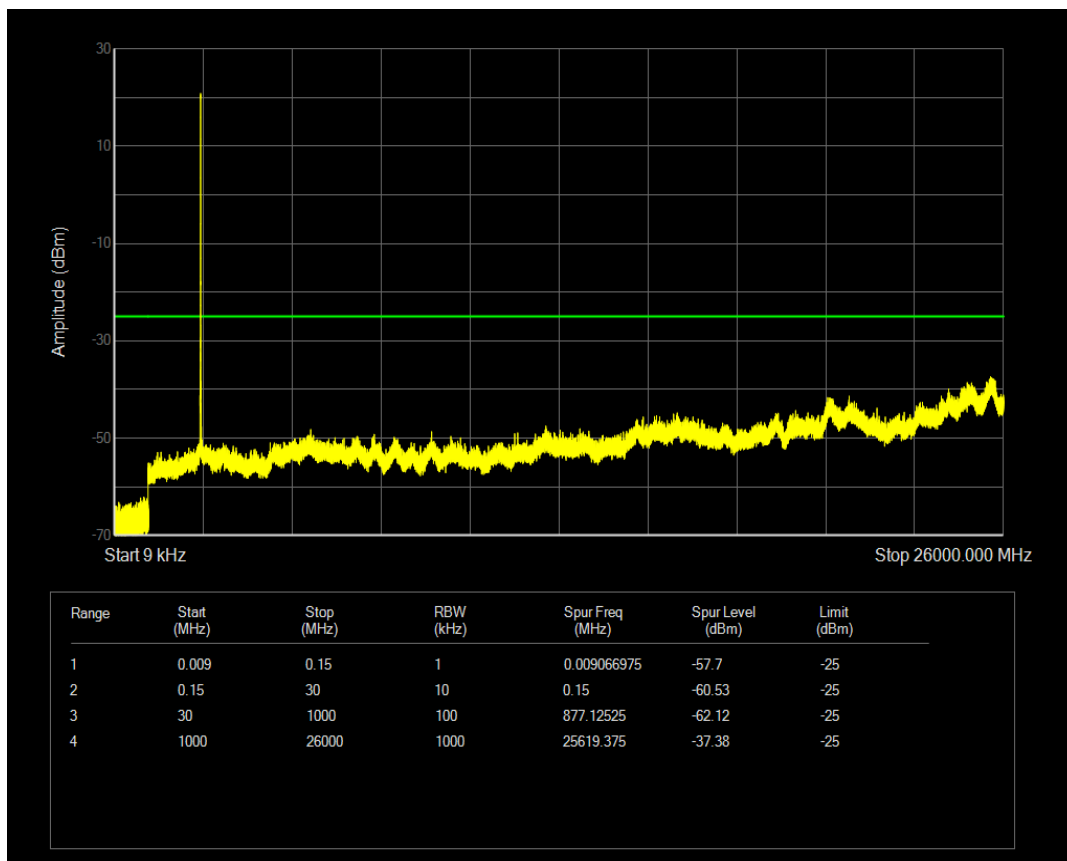


Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0

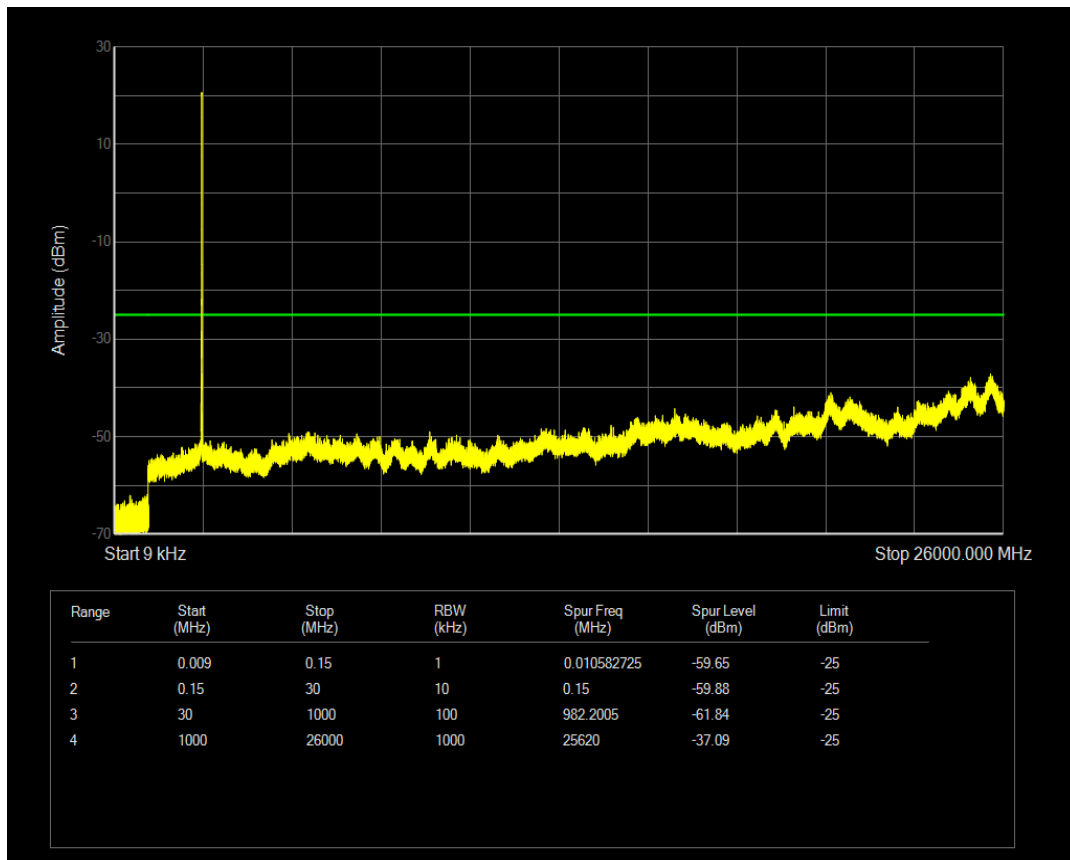




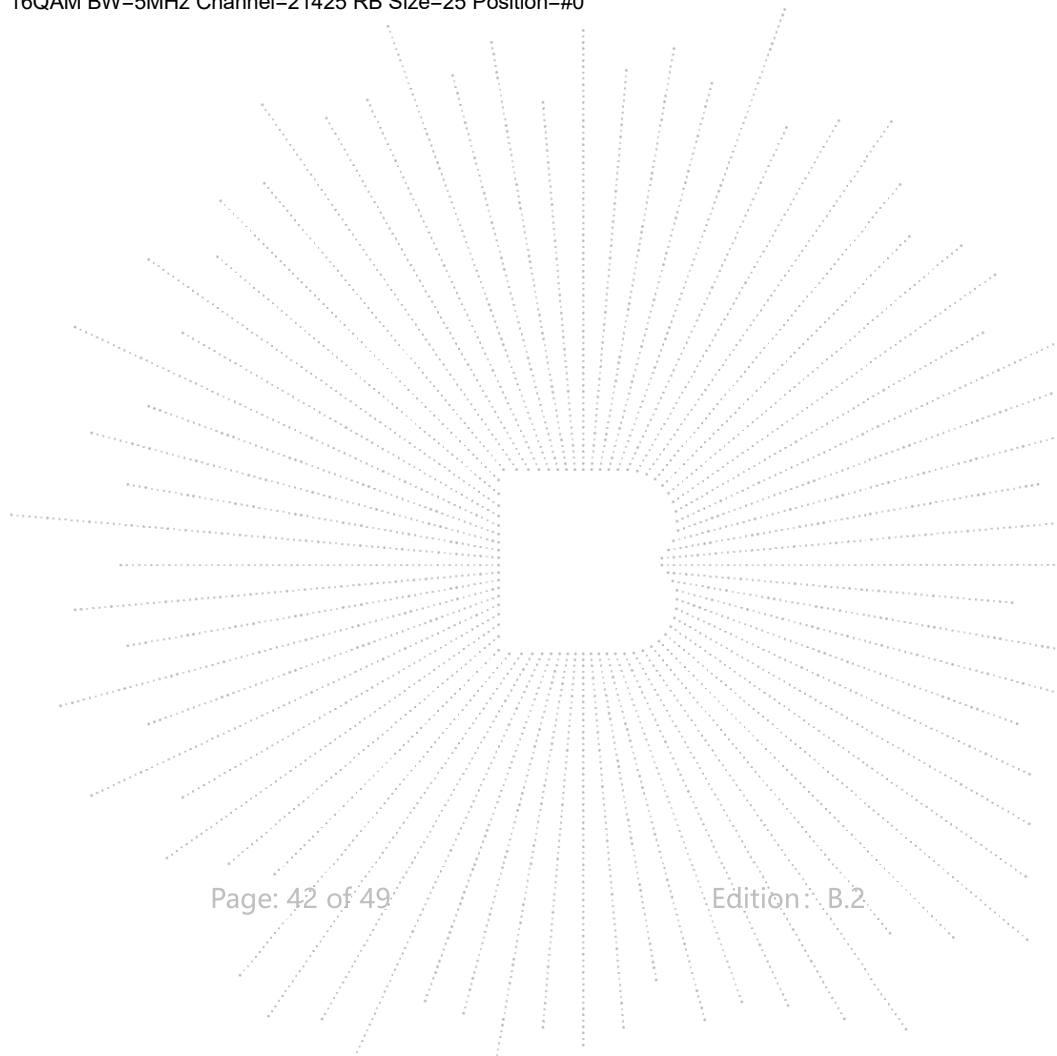
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0

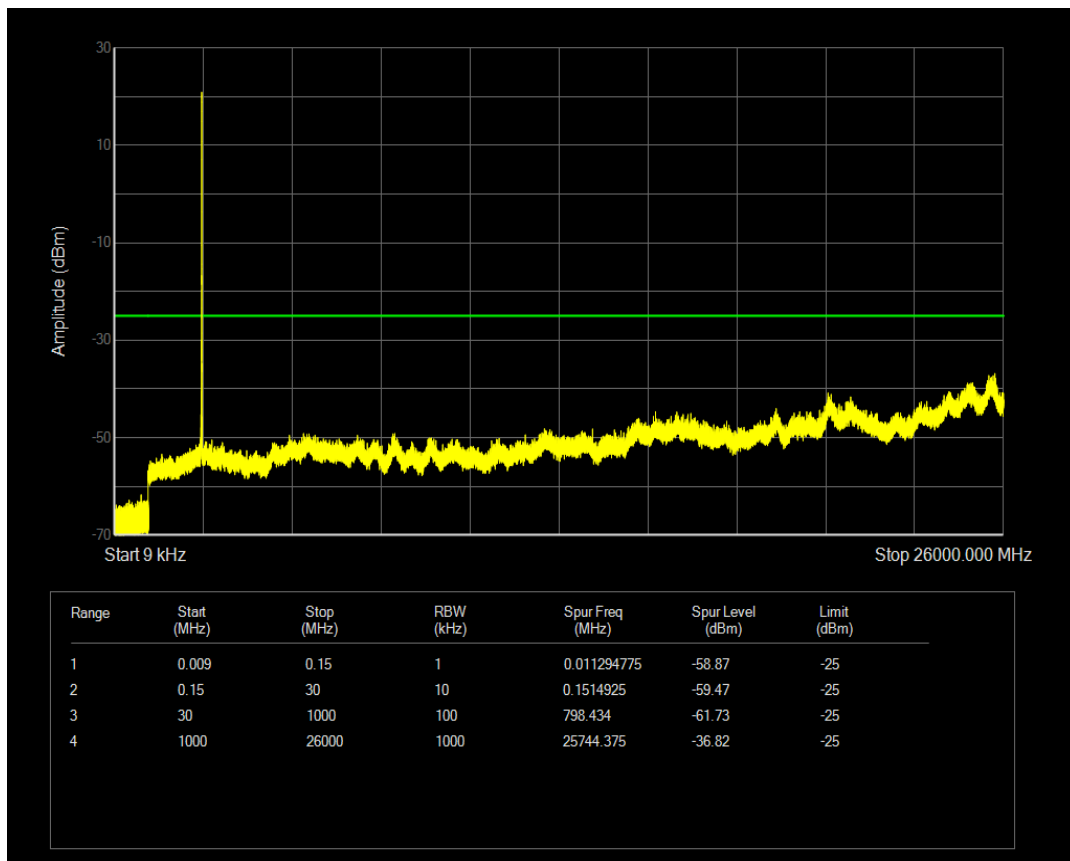


Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0

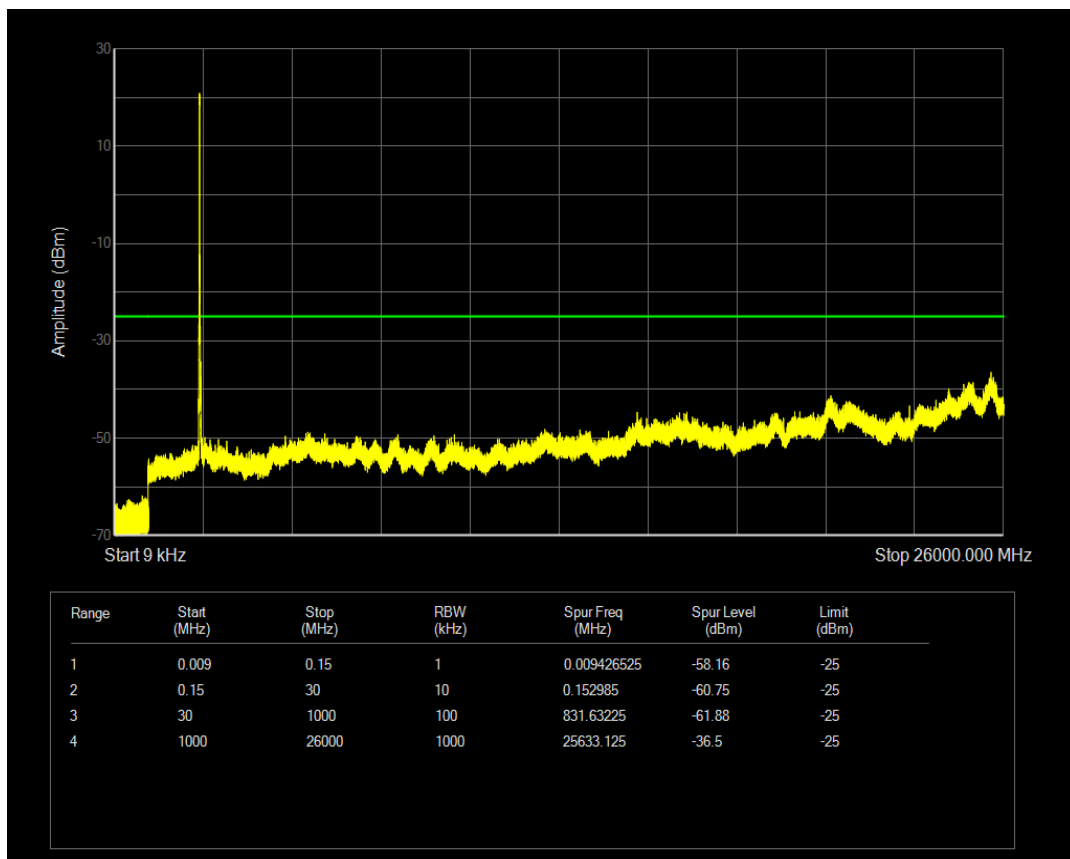


Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0

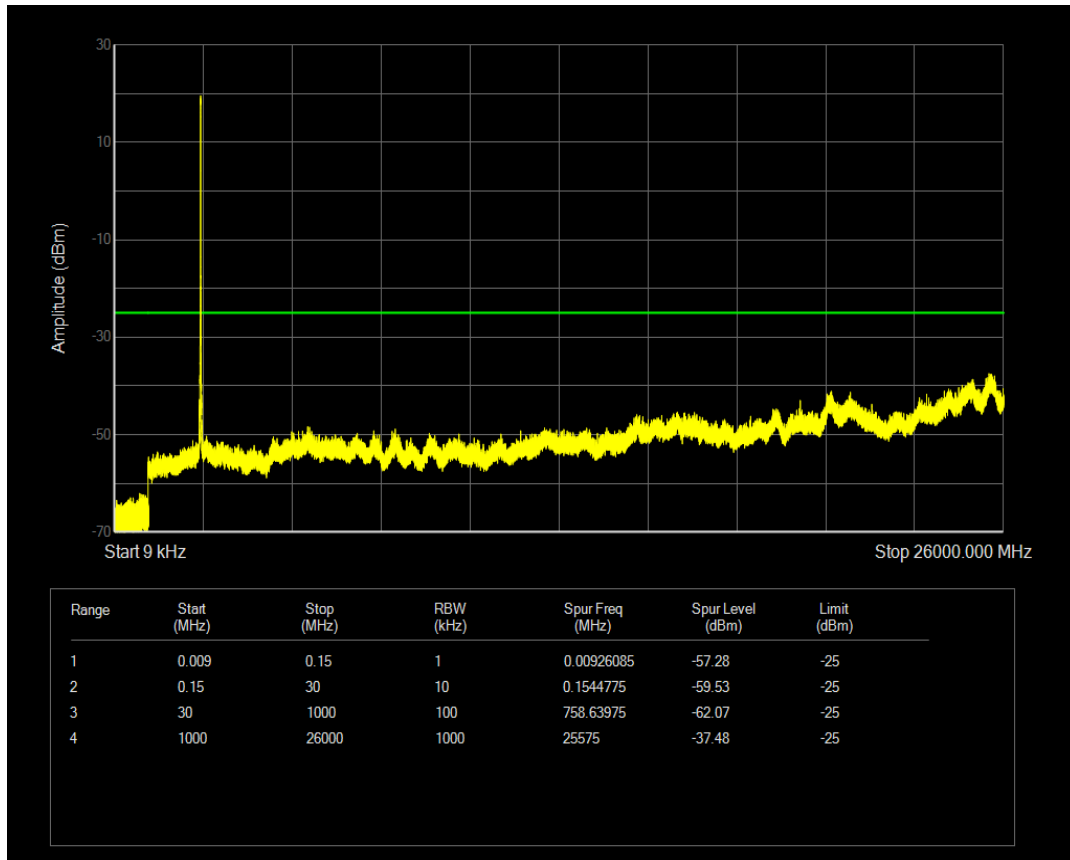




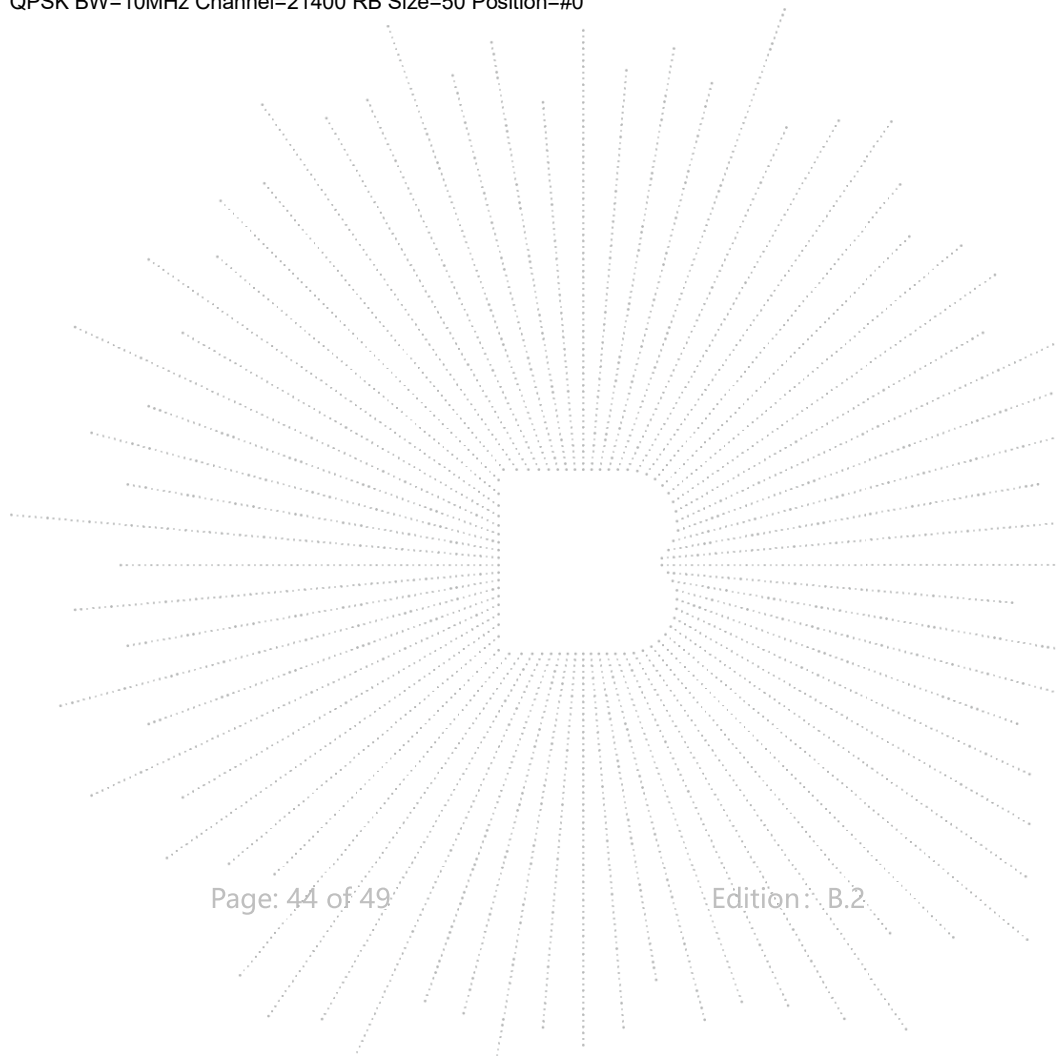
Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0

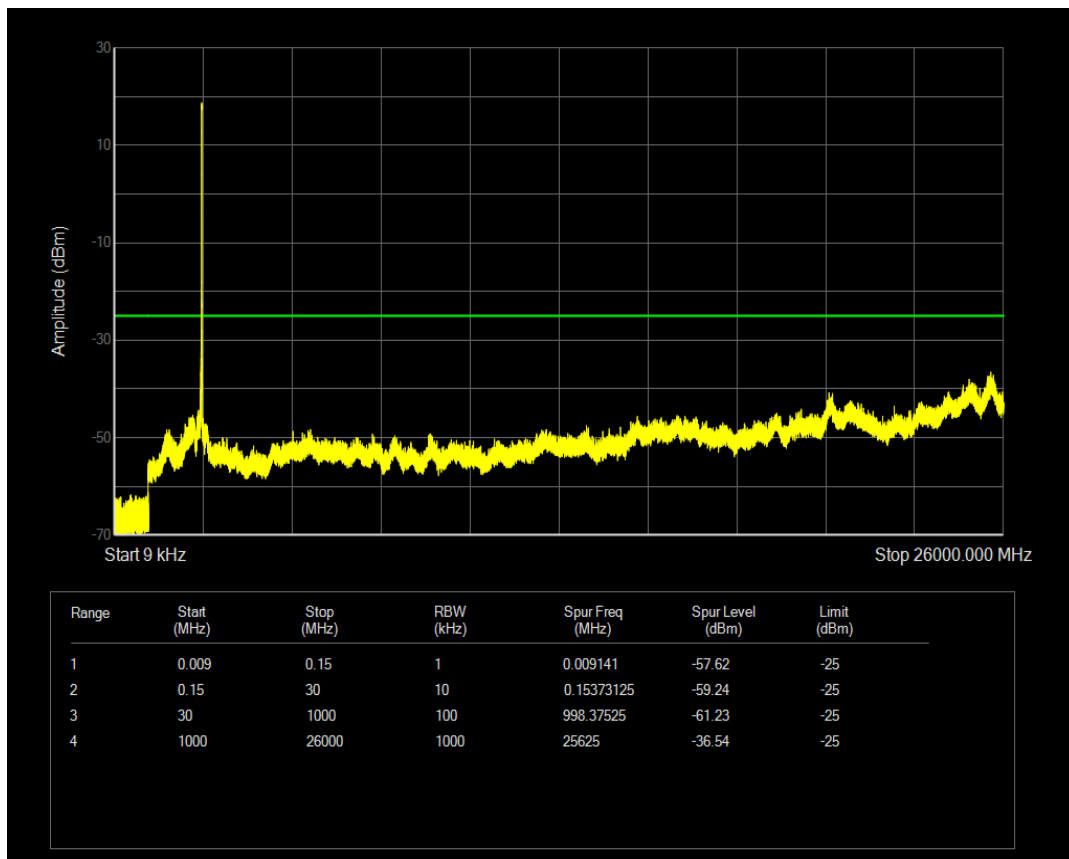


Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0

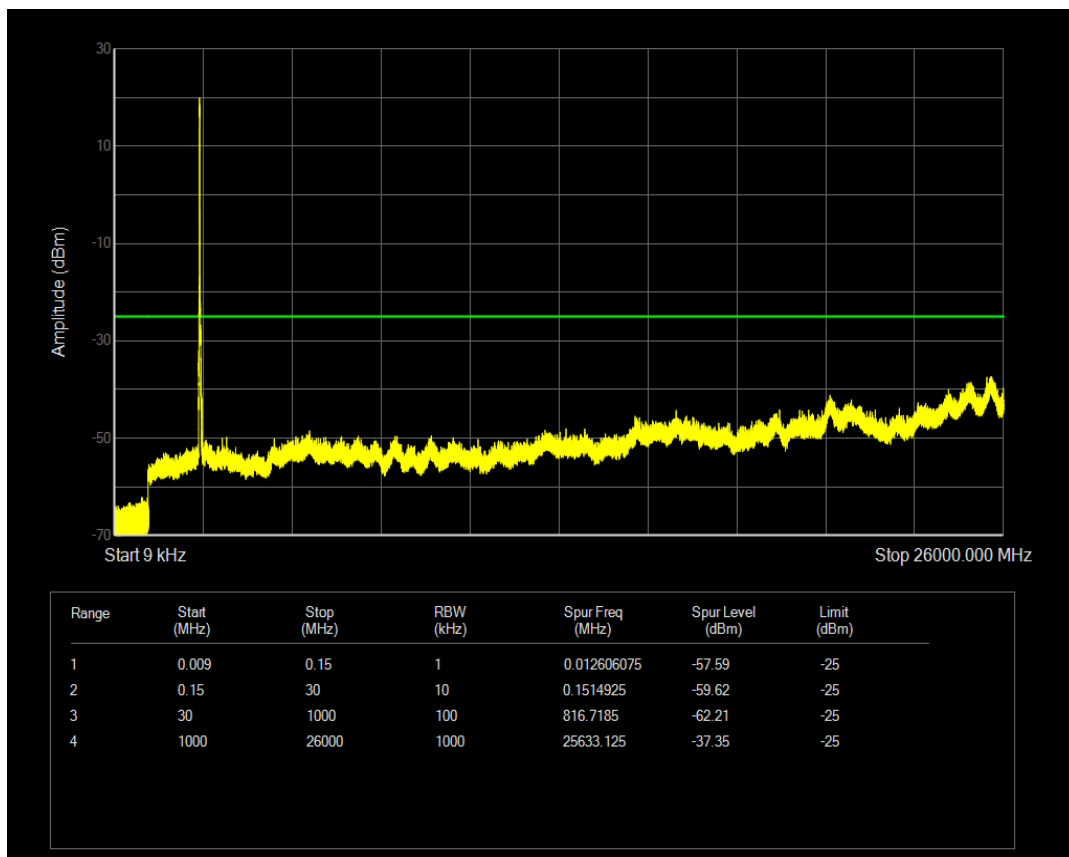


Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0

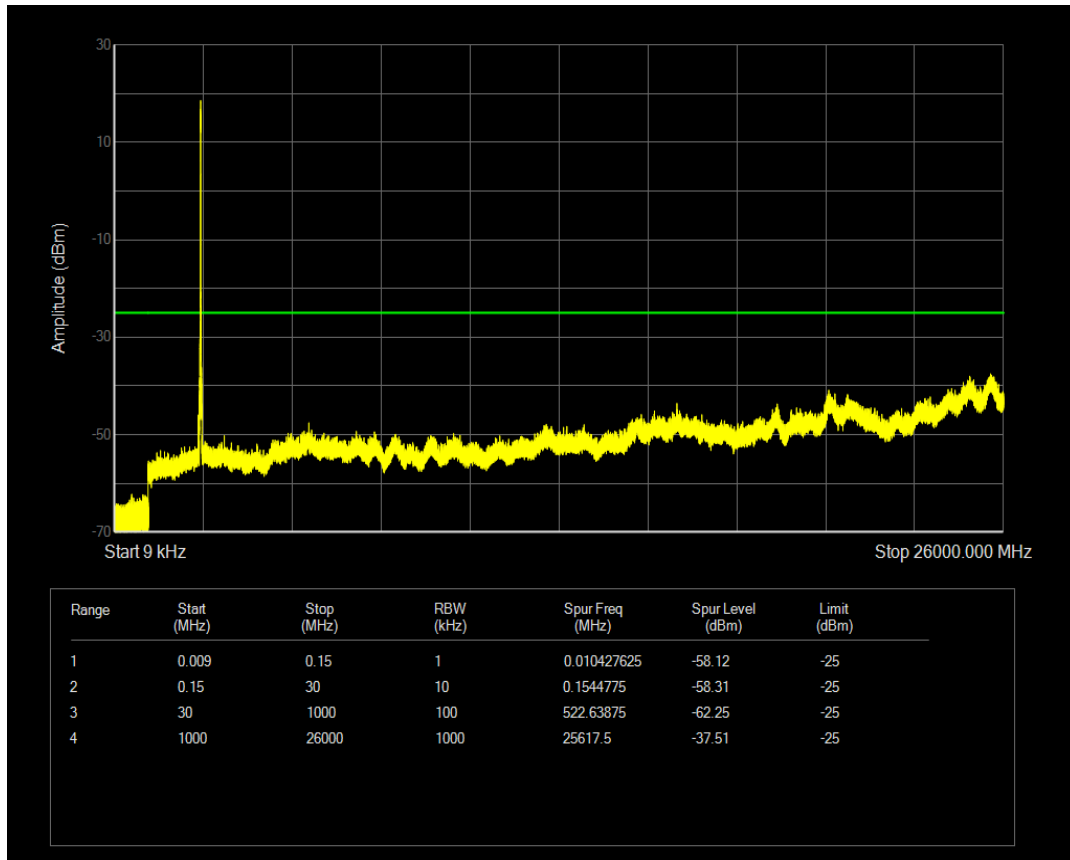




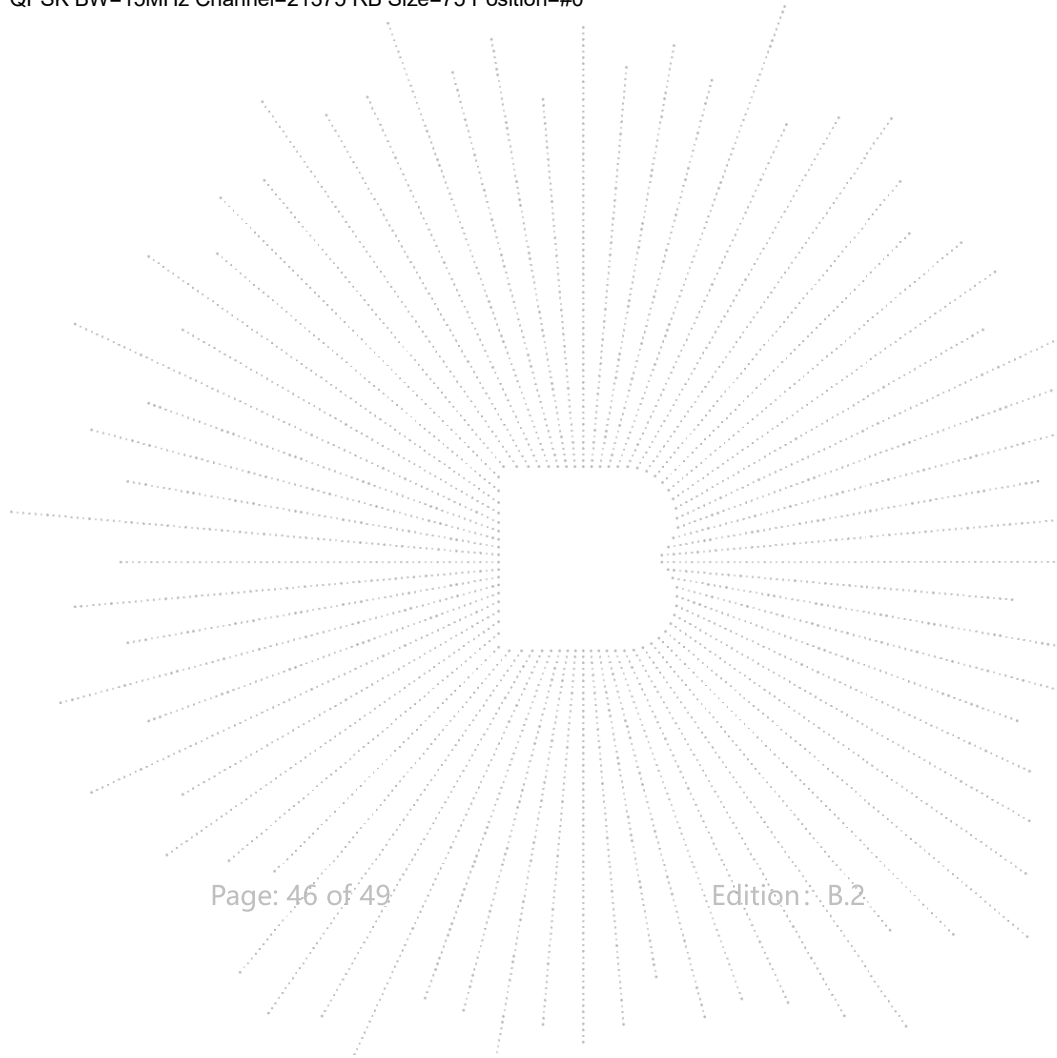
Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0

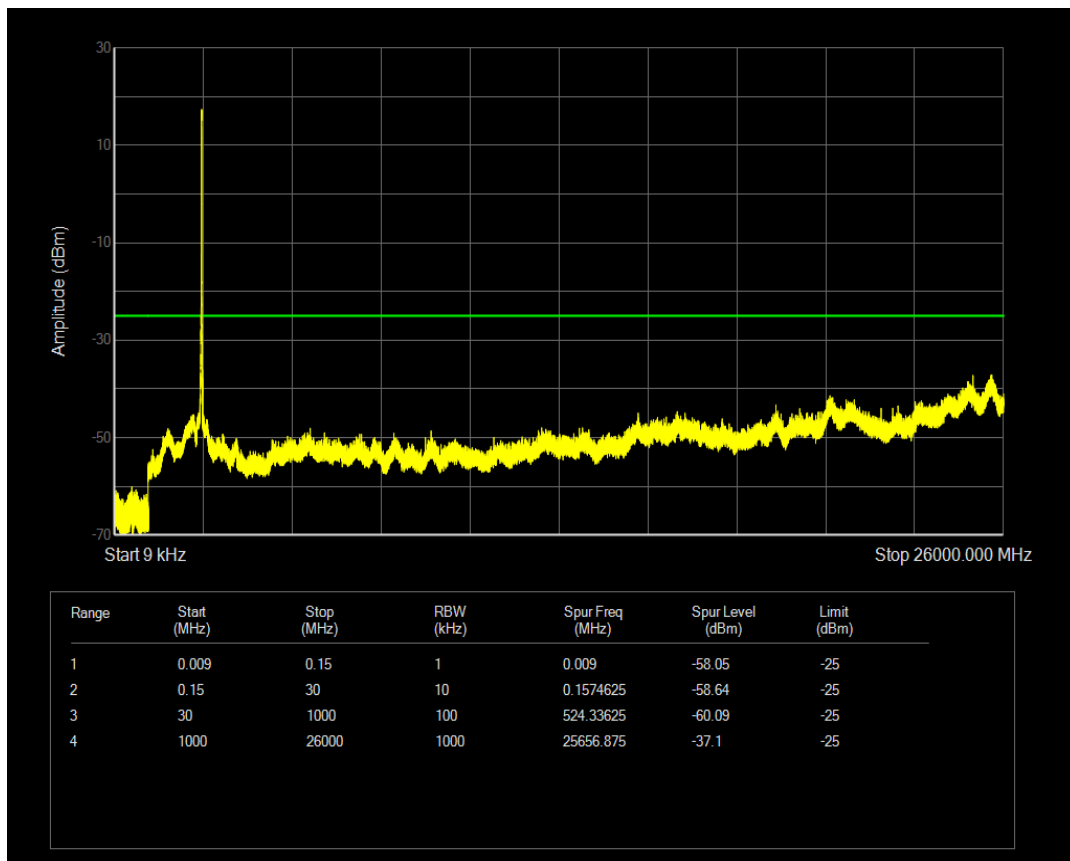


Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0

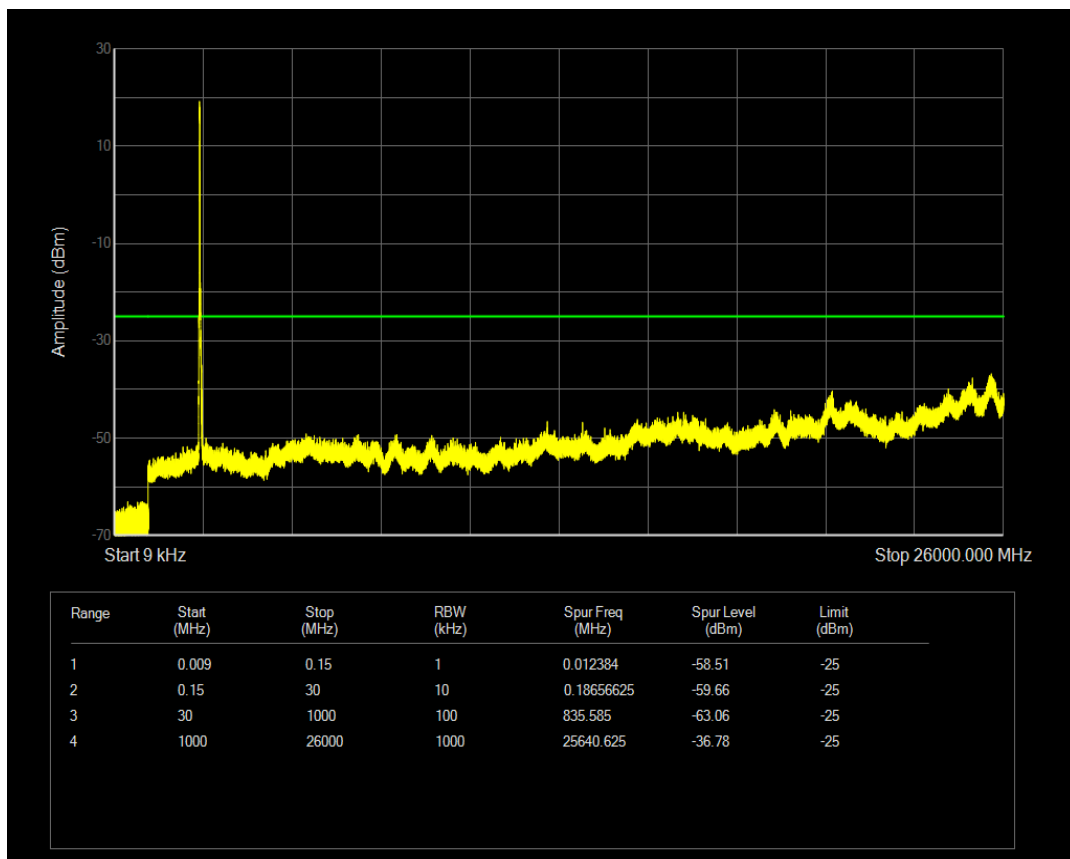


Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0

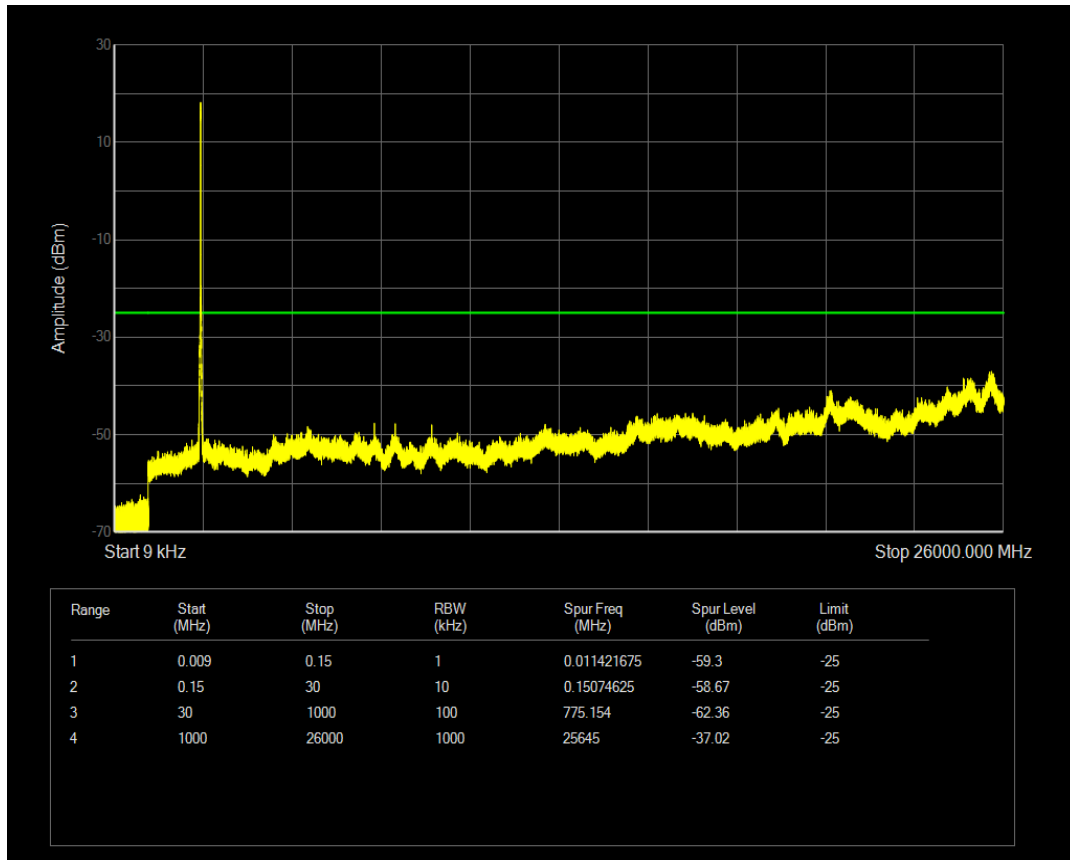




Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



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



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

