

Appendix for Band 38

Report No.: BCTC2312704909-5E

Applicant: Shenzhen Swage Electronics Co.,Ltd.

Product Name: Smart watch

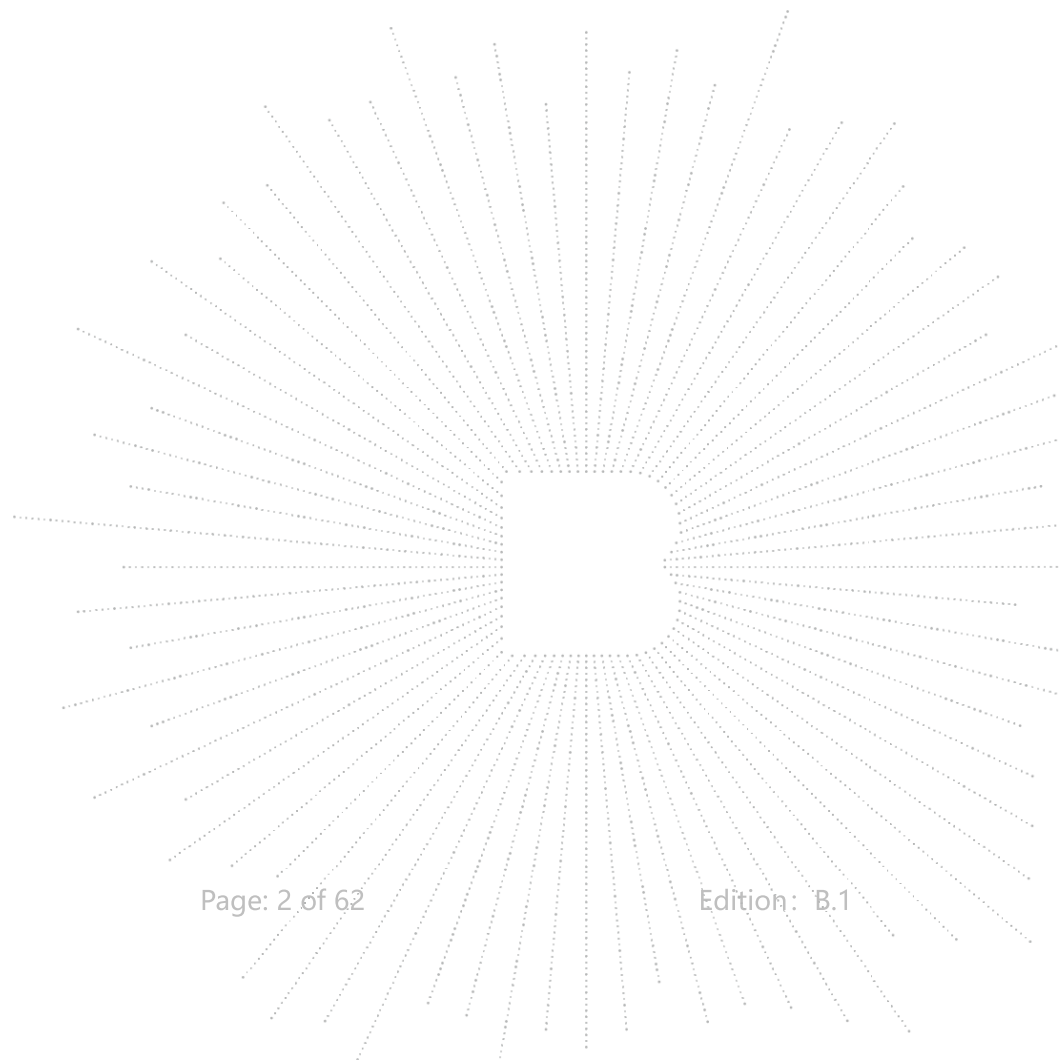
Test Model: D10

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

Shenzhen BCTC Testing Co., Ltd.

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

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	Verdict
Band38	5	37775	1	#0	QPSK	22.70	2.77	25.47	PASS
Band38	5	37775	1	#Mid	QPSK	22.70	2.77	25.47	PASS
Band38	5	37775	1	#Max	QPSK	22.66	2.77	25.43	PASS
Band38	5	37775	12	#0	QPSK	21.59	2.77	24.36	PASS
Band38	5	37775	12	#Mid	QPSK	21.72	2.77	24.49	PASS
Band38	5	37775	12	#Max	QPSK	21.80	2.77	24.57	PASS
Band38	5	37775	25	#0	QPSK	21.59	2.77	24.36	PASS
Band38	5	37775	1	#0	16QAM	21.40	2.77	24.17	PASS
Band38	5	37775	1	#Mid	16QAM	21.33	2.77	24.10	PASS
Band38	5	37775	1	#Max	16QAM	21.38	2.77	24.15	PASS
Band38	5	37775	12	#0	16QAM	20.69	2.77	23.46	PASS
Band38	5	37775	12	#Mid	16QAM	20.60	2.77	23.37	PASS
Band38	5	37775	12	#Max	16QAM	20.62	2.77	23.39	PASS
Band38	5	37775	25	#0	16QAM	20.86	2.77	23.63	PASS
Band38	5	38000	1	#0	QPSK	22.50	2.77	25.27	PASS
Band38	5	38000	1	#Mid	QPSK	22.42	2.77	25.19	PASS
Band38	5	38000	1	#Max	QPSK	22.35	2.77	25.12	PASS
Band38	5	38000	12	#0	QPSK	21.66	2.77	24.43	PASS
Band38	5	38000	12	#Mid	QPSK	21.61	2.77	24.38	PASS
Band38	5	38000	12	#Max	QPSK	21.48	2.77	24.25	PASS
Band38	5	38000	25	#0	QPSK	21.53	2.77	24.30	PASS
Band38	5	38000	1	#0	16QAM	21.94	2.77	24.71	PASS
Band38	5	38000	1	#Mid	16QAM	21.86	2.77	24.63	PASS
Band38	5	38000	1	#Max	16QAM	21.84	2.77	24.61	PASS
Band38	5	38000	12	#0	16QAM	20.63	2.77	23.40	PASS
Band38	5	38000	12	#Mid	16QAM	20.63	2.77	23.40	PASS
Band38	5	38000	12	#Max	16QAM	20.54	2.77	23.31	PASS
Band38	5	38000	25	#0	16QAM	20.80	2.77	23.57	PASS
Band38	5	38225	1	#0	QPSK	22.46	2.77	25.23	PASS
Band38	5	38225	1	#Mid	QPSK	22.37	2.77	25.14	PASS
Band38	5	38225	1	#Max	QPSK	22.50	2.77	25.27	PASS
Band38	5	38225	12	#0	QPSK	21.45	2.77	24.22	PASS
Band38	5	38225	12	#Mid	QPSK	21.39	2.77	24.16	PASS
Band38	5	38225	12	#Max	QPSK	21.32	2.77	24.09	PASS
Band38	5	38225	25	#0	QPSK	21.39	2.77	24.16	PASS
Band38	5	38225	1	#0	16QAM	21.10	2.77	23.87	PASS
Band38	5	38225	1	#Mid	16QAM	21.12	2.77	23.89	PASS
Band38	5	38225	1	#Max	16QAM	21.10	2.77	23.87	PASS

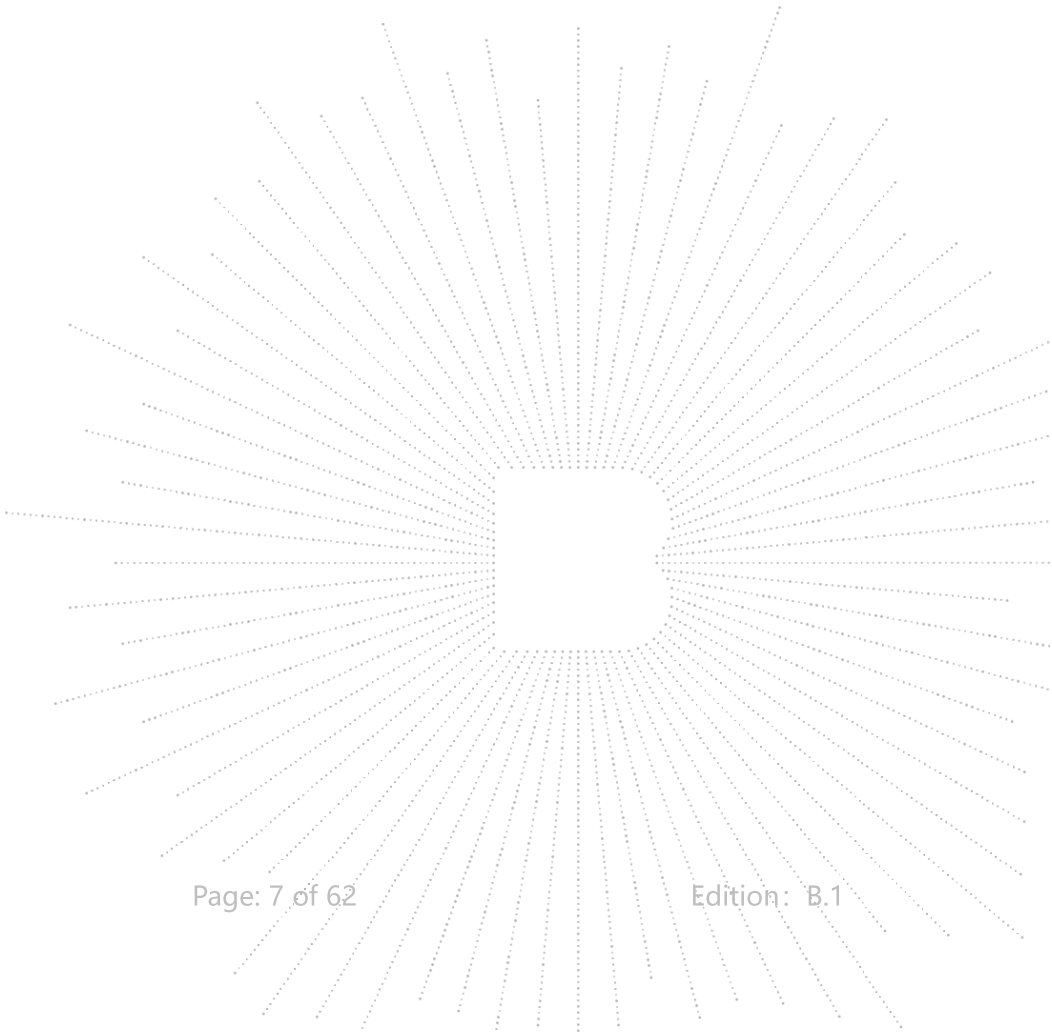
Band38	5	38225	12	#0	16QAM	20.30	2.77	23.07	PASS
Band38	5	38225	12	#Mid	16QAM	20.44	2.77	23.21	PASS
Band38	5	38225	12	#Max	16QAM	20.38	2.77	23.15	PASS
Band38	5	38225	25	#0	16QAM	20.69	2.77	23.46	PASS
Band38	10	37800	1	#0	QPSK	22.75	2.77	25.52	PASS
Band38	10	37800	1	#Mid	QPSK	22.81	2.77	25.58	PASS
Band38	10	37800	1	#Max	QPSK	22.64	2.77	25.41	PASS
Band38	10	37800	25	#0	QPSK	21.59	2.77	24.36	PASS
Band38	10	37800	25	#Mid	QPSK	21.60	2.77	24.37	PASS
Band38	10	37800	25	#Max	QPSK	21.68	2.77	24.45	PASS
Band38	10	37800	50	#0	QPSK	21.64	2.77	24.41	PASS
Band38	10	37800	1	#0	16QAM	22.95	2.77	25.72	PASS
Band38	10	37800	1	#Mid	16QAM	23.02	2.77	25.79	PASS
Band38	10	37800	1	#Max	16QAM	22.60	2.77	25.37	PASS
Band38	10	37800	25	#0	16QAM	20.75	2.77	23.52	PASS
Band38	10	37800	25	#Mid	16QAM	20.77	2.77	23.54	PASS
Band38	10	37800	25	#Max	16QAM	20.67	2.77	23.44	PASS
Band38	10	37800	50	#0	16QAM	20.83	2.77	23.60	PASS
Band38	10	38000	1	#0	QPSK	22.78	2.77	25.55	PASS
Band38	10	38000	1	#Mid	QPSK	22.77	2.77	25.54	PASS
Band38	10	38000	1	#Max	QPSK	22.68	2.77	25.45	PASS
Band38	10	38000	25	#0	QPSK	21.49	2.77	24.26	PASS
Band38	10	38000	25	#Mid	QPSK	21.54	2.77	24.31	PASS
Band38	10	38000	25	#Max	QPSK	21.36	2.77	24.13	PASS
Band38	10	38000	50	#0	QPSK	21.59	2.77	24.36	PASS
Band38	10	38000	1	#0	16QAM	20.78	2.77	23.55	PASS
Band38	10	38000	1	#Mid	16QAM	20.73	2.77	23.50	PASS
Band38	10	38000	1	#Max	16QAM	20.68	2.77	23.45	PASS
Band38	10	38000	25	#0	16QAM	20.56	2.77	23.33	PASS
Band38	10	38000	25	#Mid	16QAM	20.61	2.77	23.38	PASS
Band38	10	38000	25	#Max	16QAM	20.54	2.77	23.31	PASS
Band38	10	38000	50	#0	16QAM	20.70	2.77	23.47	PASS
Band38	10	38200	1	#0	QPSK	22.42	2.77	25.19	PASS
Band38	10	38200	1	#Mid	QPSK	22.35	2.77	25.12	PASS
Band38	10	38200	1	#Max	QPSK	22.37	2.77	25.14	PASS
Band38	10	38200	25	#0	QPSK	21.39	2.77	24.16	PASS
Band38	10	38200	25	#Mid	QPSK	21.45	2.77	24.22	PASS
Band38	10	38200	25	#Max	QPSK	21.40	2.77	24.17	PASS
Band38	10	38200	50	#0	QPSK	21.31	2.77	24.08	PASS
Band38	10	38200	1	#0	16QAM	21.97	2.77	24.74	PASS
Band38	10	38200	1	#Mid	16QAM	22.18	2.77	24.95	PASS
Band38	10	38200	1	#Max	16QAM	22.18	2.77	24.95	PASS
Band38	10	38200	25	#0	16QAM	20.20	2.77	22.97	PASS

Band38	10	38200	25	#Mid	16QAM	20.50	2.77	23.27	PASS
Band38	10	38200	25	#Max	16QAM	20.44	2.77	23.21	PASS
Band38	10	38200	50	#0	16QAM	20.54	2.77	23.31	PASS
Band38	15	37825	1	#0	QPSK	22.80	2.77	25.57	PASS
Band38	15	37825	1	#Mid	QPSK	22.82	2.77	25.59	PASS
Band38	15	37825	1	#Max	QPSK	22.78	2.77	25.55	PASS
Band38	15	37825	36	#0	QPSK	21.63	2.77	24.40	PASS
Band38	15	37825	36	#Mid	QPSK	21.60	2.77	24.37	PASS
Band38	15	37825	36	#Max	QPSK	21.70	2.77	24.47	PASS
Band38	15	37825	75	#0	QPSK	21.63	2.77	24.40	PASS
Band38	15	37825	1	#0	16QAM	22.92	2.77	25.69	PASS
Band38	15	37825	1	#Mid	16QAM	22.87	2.77	25.64	PASS
Band38	15	37825	1	#Max	16QAM	22.82	2.77	25.59	PASS
Band38	15	37825	36	#0	16QAM	20.83	2.77	23.60	PASS
Band38	15	37825	36	#Mid	16QAM	20.80	2.77	23.57	PASS
Band38	15	37825	36	#Max	16QAM	20.72	2.77	23.49	PASS
Band38	15	37825	75	#0	16QAM	20.64	2.77	23.41	PASS
Band38	15	38000	1	#0	QPSK	22.71	2.77	25.48	PASS
Band38	15	38000	1	#Mid	QPSK	22.74	2.77	25.51	PASS
Band38	15	38000	1	#Max	QPSK	22.63	2.77	25.40	PASS
Band38	15	38000	36	#0	QPSK	21.46	2.77	24.23	PASS
Band38	15	38000	36	#Mid	QPSK	21.54	2.77	24.31	PASS
Band38	15	38000	36	#Max	QPSK	21.43	2.77	24.20	PASS
Band38	15	38000	75	#0	QPSK	21.37	2.77	24.14	PASS
Band38	15	38000	1	#0	16QAM	20.80	2.77	23.57	PASS
Band38	15	38000	1	#Mid	16QAM	20.83	2.77	23.60	PASS
Band38	15	38000	1	#Max	16QAM	20.70	2.77	23.47	PASS
Band38	15	38000	36	#0	16QAM	20.75	2.77	23.52	PASS
Band38	15	38000	36	#Mid	16QAM	20.77	2.77	23.54	PASS
Band38	15	38000	36	#Max	16QAM	20.76	2.77	23.53	PASS
Band38	15	38000	75	#0	16QAM	20.77	2.77	23.54	PASS
Band38	15	38175	1	#0	QPSK	22.31	2.77	25.08	PASS
Band38	15	38175	1	#Mid	QPSK	22.36	2.77	25.13	PASS
Band38	15	38175	1	#Max	QPSK	22.23	2.77	25.00	PASS
Band38	15	38175	36	#0	QPSK	21.42	2.77	24.19	PASS
Band38	15	38175	36	#Mid	QPSK	21.40	2.77	24.17	PASS
Band38	15	38175	36	#Max	QPSK	21.40	2.77	24.17	PASS
Band38	15	38175	75	#0	QPSK	21.46	2.77	24.23	PASS
Band38	15	38175	1	#0	16QAM	21.36	2.77	24.13	PASS
Band38	15	38175	1	#Mid	16QAM	21.33	2.77	24.10	PASS
Band38	15	38175	1	#Max	16QAM	21.47	2.77	24.24	PASS
Band38	15	38175	36	#0	16QAM	20.34	2.77	23.11	PASS
Band38	15	38175	36	#Mid	16QAM	20.12	2.77	22.89	PASS

Band38	15	38175	36	#Max	16QAM	20.23	2.77	23.00	PASS
Band38	15	38175	75	#0	16QAM	20.35	2.77	23.12	PASS
Band38	20	37850	1	#0	QPSK	22.55	2.77	25.32	PASS
Band38	20	37850	1	#Mid	QPSK	22.57	2.77	25.34	PASS
Band38	20	37850	1	#Max	QPSK	22.46	2.77	25.23	PASS
Band38	20	37850	50	#0	QPSK	21.74	2.77	24.51	PASS
Band38	20	37850	50	#Mid	QPSK	21.56	2.77	24.33	PASS
Band38	20	37850	50	#Max	QPSK	21.68	2.77	24.45	PASS
Band38	20	37850	100	#0	QPSK	21.70	2.77	24.47	PASS
Band38	20	37850	1	#0	16QAM	21.81	2.77	24.58	PASS
Band38	20	37850	1	#Mid	16QAM	21.67	2.77	24.44	PASS
Band38	20	37850	1	#Max	16QAM	21.62	2.77	24.39	PASS
Band38	20	37850	50	#0	16QAM	21.00	2.77	23.77	PASS
Band38	20	37850	50	#Mid	16QAM	20.82	2.77	23.59	PASS
Band38	20	37850	50	#Max	16QAM	20.94	2.77	23.71	PASS
Band38	20	37850	100	#0	16QAM	20.71	2.77	23.48	PASS
Band38	20	38000	1	#0	QPSK	22.79	2.77	25.56	PASS
Band38	20	38000	1	#Mid	QPSK	22.68	2.77	25.45	PASS
Band38	20	38000	1	#Max	QPSK	22.57	2.77	25.34	PASS
Band38	20	38000	50	#0	QPSK	21.67	2.77	24.44	PASS
Band38	20	38000	50	#Mid	QPSK	21.44	2.77	24.21	PASS
Band38	20	38000	50	#Max	QPSK	21.61	2.77	24.38	PASS
Band38	20	38000	100	#0	QPSK	21.52	2.77	24.29	PASS
Band38	20	38000	1	#0	16QAM	21.44	2.77	24.21	PASS
Band38	20	38000	1	#Mid	16QAM	21.40	2.77	24.17	PASS
Band38	20	38000	1	#Max	16QAM	21.35	2.77	24.12	PASS
Band38	20	38000	50	#0	16QAM	20.63	2.77	23.40	PASS
Band38	20	38000	50	#Mid	16QAM	20.60	2.77	23.37	PASS
Band38	20	38000	50	#Max	16QAM	20.48	2.77	23.25	PASS
Band38	20	38000	100	#0	16QAM	20.73	2.77	23.50	PASS
Band38	20	38150	1	#0	QPSK	22.48	2.77	25.25	PASS
Band38	20	38150	1	#Mid	QPSK	22.45	2.77	25.22	PASS
Band38	20	38150	1	#Max	QPSK	22.46	2.77	25.23	PASS
Band38	20	38150	50	#0	QPSK	21.47	2.77	24.24	PASS
Band38	20	38150	50	#Mid	QPSK	21.37	2.77	24.14	PASS
Band38	20	38150	50	#Max	QPSK	21.34	2.77	24.11	PASS
Band38	20	38150	100	#0	QPSK	21.39	2.77	24.16	PASS
Band38	20	38150	1	#0	16QAM	21.26	2.77	24.03	PASS
Band38	20	38150	1	#Mid	16QAM	20.98	2.77	23.75	PASS
Band38	20	38150	1	#Max	16QAM	20.74	2.77	23.51	PASS
Band38	20	38150	50	#0	16QAM	20.60	2.77	23.37	PASS
Band38	20	38150	50	#Mid	16QAM	20.59	2.77	23.36	PASS
Band38	20	38150	50	#Max	16QAM	20.62	2.77	23.39	PASS



Band38	20	38150	100	#0	16QAM	20.45	2.77	23.22	PASS
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Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperatue (C)	Result (Hz)	Result (ppm)	Verdict
Band38	5	37775	25	#0	QPSK	LV	NT	38.29	0.015	PASS
Band38	5	37775	25	#0	QPSK	NV	NT	43.59	0.017	PASS
Band38	5	37775	25	#0	QPSK	HV	NT	-11.52	-0.004	PASS
Band38	5	37775	25	#0	16QAM	LV	NT	-6.19	-0.002	PASS
Band38	5	37775	25	#0	16QAM	NV	NT	-1.24	0.000	PASS
Band38	5	37775	25	#0	16QAM	HV	NT	-1.96	-0.001	PASS
Band38	5	38000	25	#0	QPSK	LV	NT	22.22	0.009	PASS
Band38	5	38000	25	#0	QPSK	NV	NT	12.85	0.005	PASS
Band38	5	38000	25	#0	QPSK	HV	NT	10.27	0.004	PASS
Band38	5	38000	25	#0	16QAM	LV	NT	16.64	0.006	PASS
Band38	5	38000	25	#0	16QAM	NV	NT	17.21	0.007	PASS
Band38	5	38000	25	#0	16QAM	HV	NT	16.99	0.007	PASS
Band38	5	38225	25	#0	QPSK	LV	NT	-18.14	-0.007	PASS
Band38	5	38225	25	#0	QPSK	NV	NT	-17.04	-0.007	PASS
Band38	5	38225	25	#0	QPSK	HV	NT	-11.59	-0.004	PASS
Band38	5	38225	25	#0	16QAM	LV	NT	-11.22	-0.004	PASS
Band38	5	38225	25	#0	16QAM	NV	NT	-2.05	-0.001	PASS
Band38	5	38225	25	#0	16QAM	HV	NT	-0.99	0.000	PASS
Band38	10	37800	50	#0	QPSK	LV	NT	-26.82	-0.010	PASS
Band38	10	37800	50	#0	QPSK	NV	NT	-18.85	-0.007	PASS
Band38	10	37800	50	#0	QPSK	HV	NT	-17.05	-0.007	PASS
Band38	10	37800	50	#0	16QAM	LV	NT	-12.43	-0.005	PASS
Band38	10	37800	50	#0	16QAM	NV	NT	-11.06	-0.004	PASS
Band38	10	37800	50	#0	16QAM	HV	NT	-8.84	-0.003	PASS
Band38	10	38000	50	#0	QPSK	LV	NT	-0.53	0.000	PASS
Band38	10	38000	50	#0	QPSK	NV	NT	9.01	0.003	PASS
Band38	10	38000	50	#0	QPSK	HV	NT	7.32	0.003	PASS
Band38	10	38000	50	#0	16QAM	LV	NT	9.07	0.003	PASS
Band38	10	38000	50	#0	16QAM	NV	NT	8.97	0.003	PASS
Band38	10	38000	50	#0	16QAM	HV	NT	10.67	0.004	PASS
Band38	10	38200	50	#0	QPSK	LV	NT	-47.12	-0.018	PASS
Band38	10	38200	50	#0	QPSK	NV	NT	-45.66	-0.017	PASS
Band38	10	38200	50	#0	QPSK	HV	NT	-41.58	-0.016	PASS
Band38	10	38200	50	#0	16QAM	LV	NT	-39.98	-0.015	PASS
Band38	10	38200	50	#0	16QAM	NV	NT	-39.98	-0.015	PASS
Band38	10	38200	50	#0	16QAM	HV	NT	-40.90	-0.016	PASS
Band38	15	37825	75	#0	QPSK	LV	NT	26.82	0.010	PASS
Band38	15	37825	75	#0	QPSK	NV	NT	27.11	0.011	PASS

Band38	15	37825	75	#0	QPSK	HV	NT	29.45	0.011	PASS
Band38	15	37825	75	#0	16QAM	LV	NT	29.74	0.012	PASS
Band38	15	37825	75	#0	16QAM	NV	NT	22.16	0.009	PASS
Band38	15	37825	75	#0	16QAM	HV	NT	20.84	0.008	PASS
Band38	15	38000	75	#0	QPSK	LV	NT	-11.26	-0.004	PASS
Band38	15	38000	75	#0	QPSK	NV	NT	-11.56	-0.004	PASS
Band38	15	38000	75	#0	QPSK	HV	NT	-10.51	-0.004	PASS
Band38	15	38000	75	#0	16QAM	LV	NT	-10.73	-0.004	PASS
Band38	15	38000	75	#0	16QAM	NV	NT	-12.42	-0.005	PASS
Band38	15	38000	75	#0	16QAM	HV	NT	-13.36	-0.005	PASS
Band38	15	38175	75	#0	QPSK	LV	NT	-41.74	-0.016	PASS
Band38	15	38175	75	#0	QPSK	NV	NT	-31.99	-0.012	PASS
Band38	15	38175	75	#0	QPSK	HV	NT	-34.03	-0.013	PASS
Band38	15	38175	75	#0	16QAM	LV	NT	-26.16	-0.010	PASS
Band38	15	38175	75	#0	16QAM	NV	NT	-22.65	-0.009	PASS
Band38	15	38175	75	#0	16QAM	HV	NT	-19.60	-0.008	PASS
Band38	20	37850	100	#0	QPSK	LV	NT	31.06	0.012	PASS
Band38	20	37850	100	#0	QPSK	NV	NT	40.28	0.016	PASS
Band38	20	37850	100	#0	QPSK	HV	NT	31.90	0.012	PASS
Band38	20	37850	100	#0	16QAM	LV	NT	0.10	0.000	PASS
Band38	20	37850	100	#0	16QAM	NV	NT	-4.25	-0.002	PASS
Band38	20	37850	100	#0	16QAM	HV	NT	-0.87	0.000	PASS
Band38	20	38000	100	#0	QPSK	LV	NT	25.73	0.010	PASS
Band38	20	38000	100	#0	QPSK	NV	NT	26.68	0.010	PASS
Band38	20	38000	100	#0	QPSK	HV	NT	19.83	0.008	PASS
Band38	20	38000	100	#0	16QAM	LV	NT	15.88	0.006	PASS
Band38	20	38000	100	#0	16QAM	NV	NT	14.08	0.005	PASS
Band38	20	38000	100	#0	16QAM	HV	NT	10.81	0.004	PASS
Band38	20	38150	100	#0	QPSK	LV	NT	-12.45	-0.005	PASS
Band38	20	38150	100	#0	QPSK	NV	NT	19.04	0.007	PASS
Band38	20	38150	100	#0	QPSK	HV	NT	21.06	0.008	PASS
Band38	20	38150	100	#0	16QAM	LV	NT	21.92	0.008	PASS
Band38	20	38150	100	#0	16QAM	NV	NT	19.01	0.007	PASS
Band38	20	38150	100	#0	16QAM	HV	NT	19.37	0.007	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Verdict
Band38	5	37775	25	#0	QPSK	NV	-30	-13.99	-0.005	PASS
Band38	5	37775	25	#0	QPSK	NV	-20	-29.68	-0.012	PASS
Band38	5	37775	25	#0	QPSK	NV	-10	-47.31	-0.018	PASS
Band38	5	37775	25	#0	QPSK	NV	0	-18.65	-0.007	PASS
Band38	5	37775	25	#0	QPSK	NV	10	-31.23	-0.012	PASS
Band38	5	37775	25	#0	QPSK	NV	20	-43.82	-0.017	PASS

Band38	5	37775	25	#0	QPSK	NV	30	9.43	0.004	PASS
Band38	5	37775	25	#0	QPSK	NV	40	-6.52	-0.003	PASS
Band38	5	37775	25	#0	QPSK	NV	50	-22.39	-0.009	PASS
Band38	5	37775	25	#0	16QAM	NV	-30	-35.59	-0.014	PASS
Band38	5	37775	25	#0	16QAM	NV	-20	-42.21	-0.016	PASS
Band38	5	37775	25	#0	16QAM	NV	-10	-35.69	-0.014	PASS
Band38	5	37775	25	#0	16QAM	NV	0	-5.19	-0.002	PASS
Band38	5	37775	25	#0	16QAM	NV	10	-9.13	-0.004	PASS
Band38	5	37775	25	#0	16QAM	NV	20	-15.31	-0.006	PASS
Band38	5	37775	25	#0	16QAM	NV	30	-14.25	-0.006	PASS
Band38	5	37775	25	#0	16QAM	NV	40	-15.52	-0.006	PASS
Band38	5	37775	25	#0	16QAM	NV	50	-22.90	-0.009	PASS
Band38	5	38000	25	#0	QPSK	NV	-30	-5.29	-0.002	PASS
Band38	5	38000	25	#0	QPSK	NV	-20	-4.33	-0.002	PASS
Band38	5	38000	25	#0	QPSK	NV	-10	-0.17	0.000	PASS
Band38	5	38000	25	#0	QPSK	NV	0	-4.52	-0.002	PASS
Band38	5	38000	25	#0	QPSK	NV	10	-4.48	-0.002	PASS
Band38	5	38000	25	#0	QPSK	NV	20	-5.72	-0.002	PASS
Band38	5	38000	25	#0	QPSK	NV	30	-13.06	-0.005	PASS
Band38	5	38000	25	#0	QPSK	NV	40	-12.43	-0.005	PASS
Band38	5	38000	25	#0	QPSK	NV	50	-9.57	-0.004	PASS
Band38	5	38000	25	#0	16QAM	NV	-30	-22.82	-0.009	PASS
Band38	5	38000	25	#0	16QAM	NV	-20	-29.11	-0.011	PASS
Band38	5	38000	25	#0	16QAM	NV	-10	-32.22	-0.012	PASS
Band38	5	38000	25	#0	16QAM	NV	0	-40.10	-0.015	PASS
Band38	5	38000	25	#0	16QAM	NV	10	-37.99	-0.015	PASS
Band38	5	38000	25	#0	16QAM	NV	20	-44.47	-0.017	PASS
Band38	5	38000	25	#0	16QAM	NV	30	-42.77	-0.016	PASS
Band38	5	38000	25	#0	16QAM	NV	40	-40.38	-0.016	PASS
Band38	5	38000	25	#0	16QAM	NV	50	-31.13	-0.012	PASS
Band38	5	38225	25	#0	QPSK	NV	-30	-29.28	-0.011	PASS
Band38	5	38225	25	#0	QPSK	NV	-20	-30.46	-0.012	PASS
Band38	5	38225	25	#0	QPSK	NV	-10	-26.39	-0.010	PASS
Band38	5	38225	25	#0	QPSK	NV	0	-26.26	-0.010	PASS
Band38	5	38225	25	#0	QPSK	NV	10	-23.80	-0.009	PASS
Band38	5	38225	25	#0	QPSK	NV	20	-24.65	-0.009	PASS
Band38	5	38225	25	#0	QPSK	NV	30	-21.26	-0.008	PASS
Band38	5	38225	25	#0	QPSK	NV	40	-23.35	-0.009	PASS
Band38	5	38225	25	#0	QPSK	NV	50	-25.86	-0.010	PASS
Band38	5	38225	25	#0	16QAM	NV	-30	-30.86	-0.012	PASS
Band38	5	38225	25	#0	16QAM	NV	-20	-32.83	-0.013	PASS
Band38	5	38225	25	#0	16QAM	NV	-10	-23.10	-0.009	PASS
Band38	5	38225	25	#0	16QAM	NV	0	-29.18	-0.011	PASS

Band38	5	38225	25	#0	16QAM	NV	10	-26.11	-0.010	PASS
Band38	5	38225	25	#0	16QAM	NV	20	-30.38	-0.012	PASS
Band38	5	38225	25	#0	16QAM	NV	30	-29.65	-0.011	PASS
Band38	5	38225	25	#0	16QAM	NV	40	-21.96	-0.008	PASS
Band38	5	38225	25	#0	16QAM	NV	50	-15.62	-0.006	PASS
Band38	10	37800	50	#0	QPSK	NV	-30	16.58	0.006	PASS
Band38	10	37800	50	#0	QPSK	NV	-20	15.65	0.006	PASS
Band38	10	37800	50	#0	QPSK	NV	-10	19.13	0.007	PASS
Band38	10	37800	50	#0	QPSK	NV	0	22.02	0.009	PASS
Band38	10	37800	50	#0	QPSK	NV	10	19.64	0.008	PASS
Band38	10	37800	50	#0	QPSK	NV	20	19.78	0.008	PASS
Band38	10	37800	50	#0	QPSK	NV	30	18.91	0.007	PASS
Band38	10	37800	50	#0	QPSK	NV	40	18.35	0.007	PASS
Band38	10	37800	50	#0	QPSK	NV	50	16.28	0.006	PASS
Band38	10	37800	50	#0	16QAM	NV	-30	9.41	0.004	PASS
Band38	10	37800	50	#0	16QAM	NV	-20	6.72	0.003	PASS
Band38	10	37800	50	#0	16QAM	NV	-10	-0.49	0.000	PASS
Band38	10	37800	50	#0	16QAM	NV	0	-7.95	-0.003	PASS
Band38	10	37800	50	#0	16QAM	NV	10	-11.26	-0.004	PASS
Band38	10	37800	50	#0	16QAM	NV	20	-15.23	-0.006	PASS
Band38	10	37800	50	#0	16QAM	NV	30	-21.62	-0.008	PASS
Band38	10	37800	50	#0	16QAM	NV	40	-22.59	-0.009	PASS
Band38	10	37800	50	#0	16QAM	NV	50	-25.41	-0.010	PASS
Band38	10	38000	50	#0	QPSK	NV	-30	0.72	0.000	PASS
Band38	10	38000	50	#0	QPSK	NV	-20	4.49	0.002	PASS
Band38	10	38000	50	#0	QPSK	NV	-10	8.27	0.003	PASS
Band38	10	38000	50	#0	QPSK	NV	0	13.35	0.005	PASS
Band38	10	38000	50	#0	QPSK	NV	10	16.75	0.006	PASS
Band38	10	38000	50	#0	QPSK	NV	20	19.40	0.007	PASS
Band38	10	38000	50	#0	QPSK	NV	30	15.61	0.006	PASS
Band38	10	38000	50	#0	QPSK	NV	40	12.33	0.005	PASS
Band38	10	38000	50	#0	QPSK	NV	50	12.59	0.005	PASS
Band38	10	38000	50	#0	16QAM	NV	-30	2.13	0.001	PASS
Band38	10	38000	50	#0	16QAM	NV	-20	-0.29	0.000	PASS
Band38	10	38000	50	#0	16QAM	NV	-10	-4.96	-0.002	PASS
Band38	10	38000	50	#0	16QAM	NV	0	-4.23	-0.002	PASS
Band38	10	38000	50	#0	16QAM	NV	10	-6.90	-0.003	PASS
Band38	10	38000	50	#0	16QAM	NV	20	-0.40	0.000	PASS
Band38	10	38000	50	#0	16QAM	NV	30	4.86	0.002	PASS
Band38	10	38000	50	#0	16QAM	NV	40	2.00	0.001	PASS
Band38	10	38000	50	#0	16QAM	NV	50	4.68	0.002	PASS
Band38	10	38200	50	#0	QPSK	NV	-30	-45.28	-0.017	PASS
Band38	10	38200	50	#0	QPSK	NV	-20	-49.44	-0.019	PASS

Band38	10	38200	50	#0	QPSK	NV	-10	-48.18	-0.018	PASS
Band38	10	38200	50	#0	QPSK	NV	0	-47.12	-0.018	PASS
Band38	10	38200	50	#0	QPSK	NV	10	-43.47	-0.017	PASS
Band38	10	38200	50	#0	QPSK	NV	20	-45.05	-0.017	PASS
Band38	10	38200	50	#0	QPSK	NV	30	-41.26	-0.016	PASS
Band38	10	38200	50	#0	QPSK	NV	40	-40.47	-0.015	PASS
Band38	10	38200	50	#0	QPSK	NV	50	-37.54	-0.014	PASS
Band38	10	38200	50	#0	16QAM	NV	-30	-38.11	-0.015	PASS
Band38	10	38200	50	#0	16QAM	NV	-20	-29.95	-0.011	PASS
Band38	10	38200	50	#0	16QAM	NV	-10	-24.98	-0.010	PASS
Band38	10	38200	50	#0	16QAM	NV	0	-13.15	-0.005	PASS
Band38	10	38200	50	#0	16QAM	NV	10	2.57	0.001	PASS
Band38	10	38200	50	#0	16QAM	NV	20	13.06	0.005	PASS
Band38	10	38200	50	#0	16QAM	NV	30	20.26	0.008	PASS
Band38	10	38200	50	#0	16QAM	NV	40	29.37	0.011	PASS
Band38	10	38200	50	#0	16QAM	NV	50	38.92	0.015	PASS
Band38	15	37825	75	#0	QPSK	NV	-30	-10.59	-0.004	PASS
Band38	15	37825	75	#0	QPSK	NV	-20	0.10	0.000	PASS
Band38	15	37825	75	#0	QPSK	NV	-10	5.21	0.002	PASS
Band38	15	37825	75	#0	QPSK	NV	0	2.76	0.001	PASS
Band38	15	37825	75	#0	QPSK	NV	10	1.19	0.000	PASS
Band38	15	37825	75	#0	QPSK	NV	20	0.09	0.000	PASS
Band38	15	37825	75	#0	QPSK	NV	30	-0.74	0.000	PASS
Band38	15	37825	75	#0	QPSK	NV	40	1.27	0.000	PASS
Band38	15	37825	75	#0	QPSK	NV	50	10.37	0.004	PASS
Band38	15	37825	75	#0	16QAM	NV	-30	16.88	0.007	PASS
Band38	15	37825	75	#0	16QAM	NV	-20	17.84	0.007	PASS
Band38	15	37825	75	#0	16QAM	NV	-10	21.27	0.008	PASS
Band38	15	37825	75	#0	16QAM	NV	0	19.57	0.008	PASS
Band38	15	37825	75	#0	16QAM	NV	10	20.83	0.008	PASS
Band38	15	37825	75	#0	16QAM	NV	20	22.86	0.009	PASS
Band38	15	37825	75	#0	16QAM	NV	30	18.67	0.007	PASS
Band38	15	37825	75	#0	16QAM	NV	40	19.35	0.008	PASS
Band38	15	37825	75	#0	16QAM	NV	50	19.98	0.008	PASS
Band38	15	38000	75	#0	QPSK	NV	-30	10.46	0.004	PASS
Band38	15	38000	75	#0	QPSK	NV	-20	13.30	0.005	PASS
Band38	15	38000	75	#0	QPSK	NV	-10	10.90	0.004	PASS
Band38	15	38000	75	#0	QPSK	NV	0	4.35	0.002	PASS
Band38	15	38000	75	#0	QPSK	NV	10	2.53	0.001	PASS
Band38	15	38000	75	#0	QPSK	NV	20	-4.12	-0.002	PASS
Band38	15	38000	75	#0	QPSK	NV	30	-5.87	-0.002	PASS
Band38	15	38000	75	#0	QPSK	NV	40	-2.65	-0.001	PASS
Band38	15	38000	75	#0	QPSK	NV	50	2.55	0.001	PASS

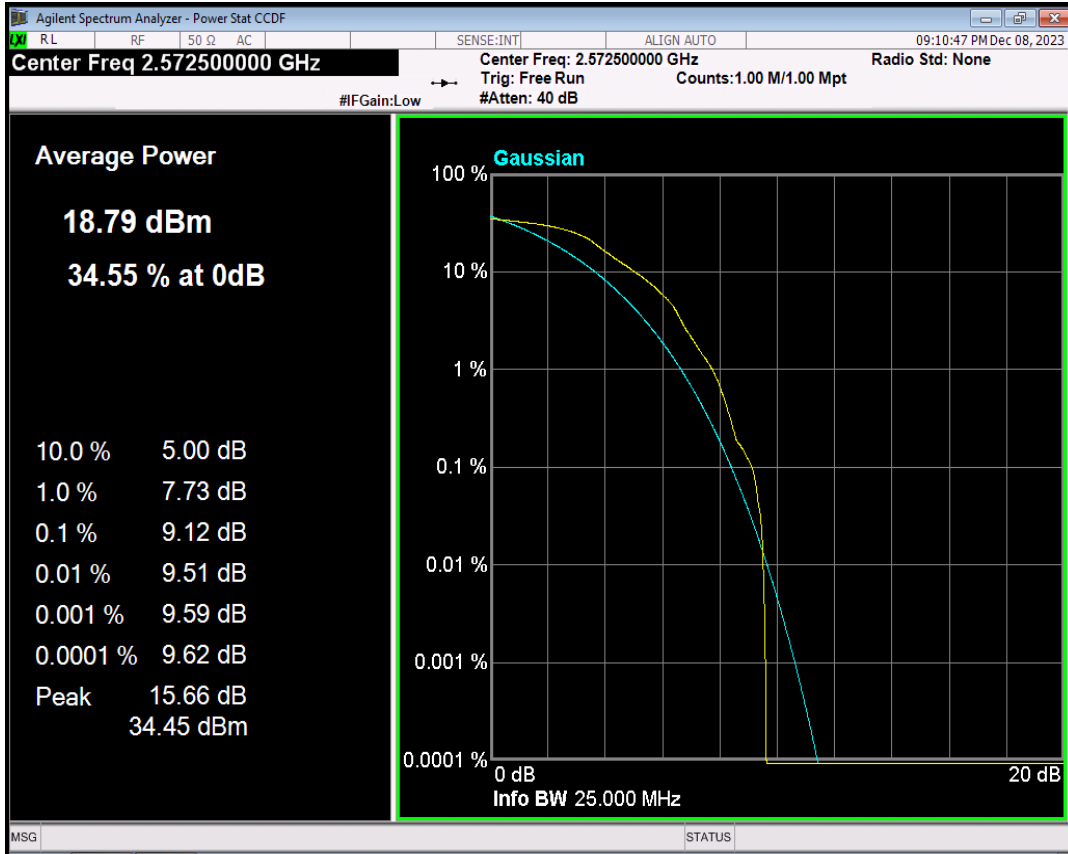
Band38	15	38000	75	#0	16QAM	NV	-30	4.19	0.002	PASS
Band38	15	38000	75	#0	16QAM	NV	-20	8.77	0.003	PASS
Band38	15	38000	75	#0	16QAM	NV	-10	11.46	0.004	PASS
Band38	15	38000	75	#0	16QAM	NV	0	17.54	0.007	PASS
Band38	15	38000	75	#0	16QAM	NV	10	30.17	0.012	PASS
Band38	15	38000	75	#0	16QAM	NV	20	33.89	0.013	PASS
Band38	15	38000	75	#0	16QAM	NV	30	42.93	0.017	PASS
Band38	15	38000	75	#0	16QAM	NV	40	44.62	0.017	PASS
Band38	15	38000	75	#0	16QAM	NV	50	17.80	0.007	PASS
Band38	15	38175	75	#0	QPSK	NV	-30	-22.56	-0.009	PASS
Band38	15	38175	75	#0	QPSK	NV	-20	-17.97	-0.007	PASS
Band38	15	38175	75	#0	QPSK	NV	-10	-16.22	-0.006	PASS
Band38	15	38175	75	#0	QPSK	NV	0	-15.65	-0.006	PASS
Band38	15	38175	75	#0	QPSK	NV	10	-14.00	-0.005	PASS
Band38	15	38175	75	#0	QPSK	NV	20	-7.37	-0.003	PASS
Band38	15	38175	75	#0	QPSK	NV	30	-11.56	-0.004	PASS
Band38	15	38175	75	#0	QPSK	NV	40	-6.61	-0.003	PASS
Band38	15	38175	75	#0	QPSK	NV	50	-4.78	-0.002	PASS
Band38	15	38175	75	#0	16QAM	NV	-30	6.54	0.003	PASS
Band38	15	38175	75	#0	16QAM	NV	-20	15.05	0.006	PASS
Band38	15	38175	75	#0	16QAM	NV	-10	32.54	0.012	PASS
Band38	15	38175	75	#0	16QAM	NV	0	27.54	0.011	PASS
Band38	15	38175	75	#0	16QAM	NV	10	-1.66	-0.001	PASS
Band38	15	38175	75	#0	16QAM	NV	20	13.46	0.005	PASS
Band38	15	38175	75	#0	16QAM	NV	30	24.40	0.009	PASS
Band38	15	38175	75	#0	16QAM	NV	40	37.19	0.014	PASS
Band38	15	38175	75	#0	16QAM	NV	50	39.02	0.015	PASS
Band38	20	37850	100	#0	QPSK	NV	-30	36.66	0.014	PASS
Band38	20	37850	100	#0	QPSK	NV	-20	18.51	0.007	PASS
Band38	20	37850	100	#0	QPSK	NV	-10	-6.31	-0.002	PASS
Band38	20	37850	100	#0	QPSK	NV	0	7.52	0.003	PASS
Band38	20	37850	100	#0	QPSK	NV	10	9.77	0.004	PASS
Band38	20	37850	100	#0	QPSK	NV	20	19.56	0.008	PASS
Band38	20	37850	100	#0	QPSK	NV	30	23.32	0.009	PASS
Band38	20	37850	100	#0	QPSK	NV	40	25.84	0.010	PASS
Band38	20	37850	100	#0	QPSK	NV	50	25.85	0.010	PASS
Band38	20	37850	100	#0	16QAM	NV	-30	28.71	0.011	PASS
Band38	20	37850	100	#0	16QAM	NV	-20	31.57	0.012	PASS
Band38	20	37850	100	#0	16QAM	NV	-10	32.93	0.013	PASS
Band38	20	37850	100	#0	16QAM	NV	0	41.50	0.016	PASS
Band38	20	37850	100	#0	16QAM	NV	10	13.19	0.005	PASS
Band38	20	37850	100	#0	16QAM	NV	20	21.94	0.009	PASS
Band38	20	37850	100	#0	16QAM	NV	30	30.74	0.012	PASS

Band38	20	37850	100	#0	16QAM	NV	40	38.38	0.015	PASS
Band38	20	37850	100	#0	16QAM	NV	50	22.50	0.009	PASS
Band38	20	38000	100	#0	QPSK	NV	-30	18.53	0.007	PASS
Band38	20	38000	100	#0	QPSK	NV	-20	21.04	0.008	PASS
Band38	20	38000	100	#0	QPSK	NV	-10	31.73	0.012	PASS
Band38	20	38000	100	#0	QPSK	NV	0	38.90	0.015	PASS
Band38	20	38000	100	#0	QPSK	NV	10	10.03	0.004	PASS
Band38	20	38000	100	#0	QPSK	NV	20	10.54	0.004	PASS
Band38	20	38000	100	#0	QPSK	NV	30	10.53	0.004	PASS
Band38	20	38000	100	#0	QPSK	NV	40	10.06	0.004	PASS
Band38	20	38000	100	#0	QPSK	NV	50	16.98	0.007	PASS
Band38	20	38000	100	#0	16QAM	NV	-30	21.01	0.008	PASS
Band38	20	38000	100	#0	16QAM	NV	-20	23.56	0.009	PASS
Band38	20	38000	100	#0	16QAM	NV	-10	23.07	0.009	PASS
Band38	20	38000	100	#0	16QAM	NV	0	19.78	0.008	PASS
Band38	20	38000	100	#0	16QAM	NV	10	9.50	0.004	PASS
Band38	20	38000	100	#0	16QAM	NV	20	4.71	0.002	PASS
Band38	20	38000	100	#0	16QAM	NV	30	1.23	0.000	PASS
Band38	20	38000	100	#0	16QAM	NV	40	-3.89	-0.001	PASS
Band38	20	38000	100	#0	16QAM	NV	50	-4.21	-0.002	PASS
Band38	20	38150	100	#0	QPSK	NV	-30	-19.01	-0.007	PASS
Band38	20	38150	100	#0	QPSK	NV	-20	-16.54	-0.006	PASS
Band38	20	38150	100	#0	QPSK	NV	-10	-7.84	-0.003	PASS
Band38	20	38150	100	#0	QPSK	NV	0	-3.46	-0.001	PASS
Band38	20	38150	100	#0	QPSK	NV	10	1.99	0.001	PASS
Band38	20	38150	100	#0	QPSK	NV	20	10.31	0.004	PASS
Band38	20	38150	100	#0	QPSK	NV	30	14.23	0.005	PASS
Band38	20	38150	100	#0	QPSK	NV	40	15.21	0.006	PASS
Band38	20	38150	100	#0	QPSK	NV	50	18.04	0.007	PASS
Band38	20	38150	100	#0	16QAM	NV	-30	17.98	0.007	PASS
Band38	20	38150	100	#0	16QAM	NV	-20	19.83	0.008	PASS
Band38	20	38150	100	#0	16QAM	NV	-10	11.29	0.004	PASS
Band38	20	38150	100	#0	16QAM	NV	0	9.16	0.004	PASS
Band38	20	38150	100	#0	16QAM	NV	10	13.80	0.005	PASS
Band38	20	38150	100	#0	16QAM	NV	20	17.71	0.007	PASS
Band38	20	38150	100	#0	16QAM	NV	30	17.02	0.007	PASS
Band38	20	38150	100	#0	16QAM	NV	40	18.91	0.007	PASS
Band38	20	38150	100	#0	16QAM	NV	50	23.17	0.009	PASS

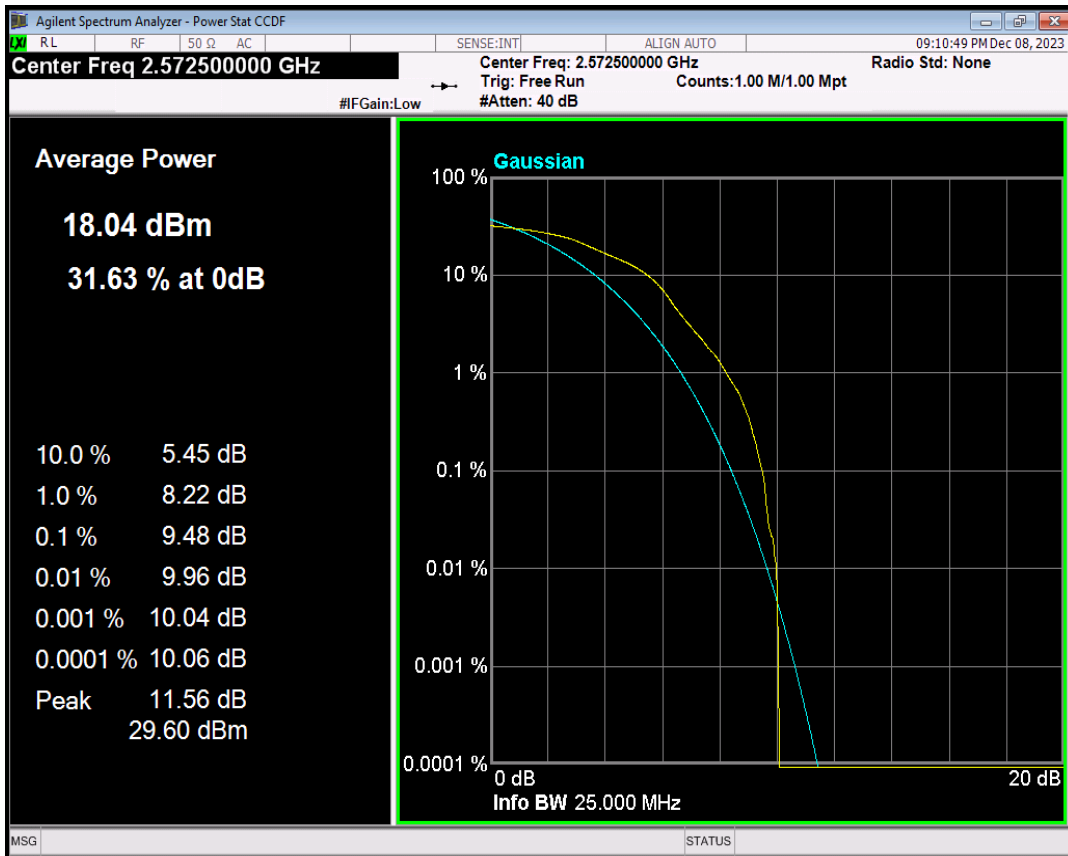
Appendix 3. Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band38	5	37775	1	#0	QPSK	9.12	13	PASS
Band38	5	37775	1	#0	16QAM	9.48	13	PASS
Band38	5	38000	1	#0	QPSK	9.07	13	PASS
Band38	5	38000	1	#0	16QAM	9.74	13	PASS
Band38	5	38225	1	#0	QPSK	7.62	13	PASS
Band38	5	38225	1	#0	16QAM	11.27	13	PASS
Band38	10	37800	1	#0	QPSK	8.91	13	PASS
Band38	10	37800	1	#0	16QAM	10.27	13	PASS
Band38	10	38000	1	#0	QPSK	10.67	13	PASS
Band38	10	38000	1	#0	16QAM	8.24	13	PASS
Band38	10	38200	1	#0	QPSK	10.66	13	PASS
Band38	10	38200	1	#0	16QAM	9.74	13	PASS
Band38	15	37825	1	#0	QPSK	9.93	13	PASS
Band38	15	37825	1	#0	16QAM	9.69	13	PASS
Band38	15	38000	1	#0	QPSK	11.36	13	PASS
Band38	15	38000	1	#0	16QAM	9.88	13	PASS
Band38	15	38175	1	#0	QPSK	9.64	13	PASS
Band38	15	38175	1	#0	16QAM	9.09	13	PASS
Band38	20	37850	1	#0	QPSK	9.66	13	PASS
Band38	20	37850	1	#0	16QAM	10.11	13	PASS
Band38	20	38000	1	#0	QPSK	8.25	13	PASS
Band38	20	38000	1	#0	16QAM	10.10	13	PASS
Band38	20	38150	1	#0	QPSK	8.92	13	PASS
Band38	20	38150	1	#0	16QAM	8.68	13	PASS

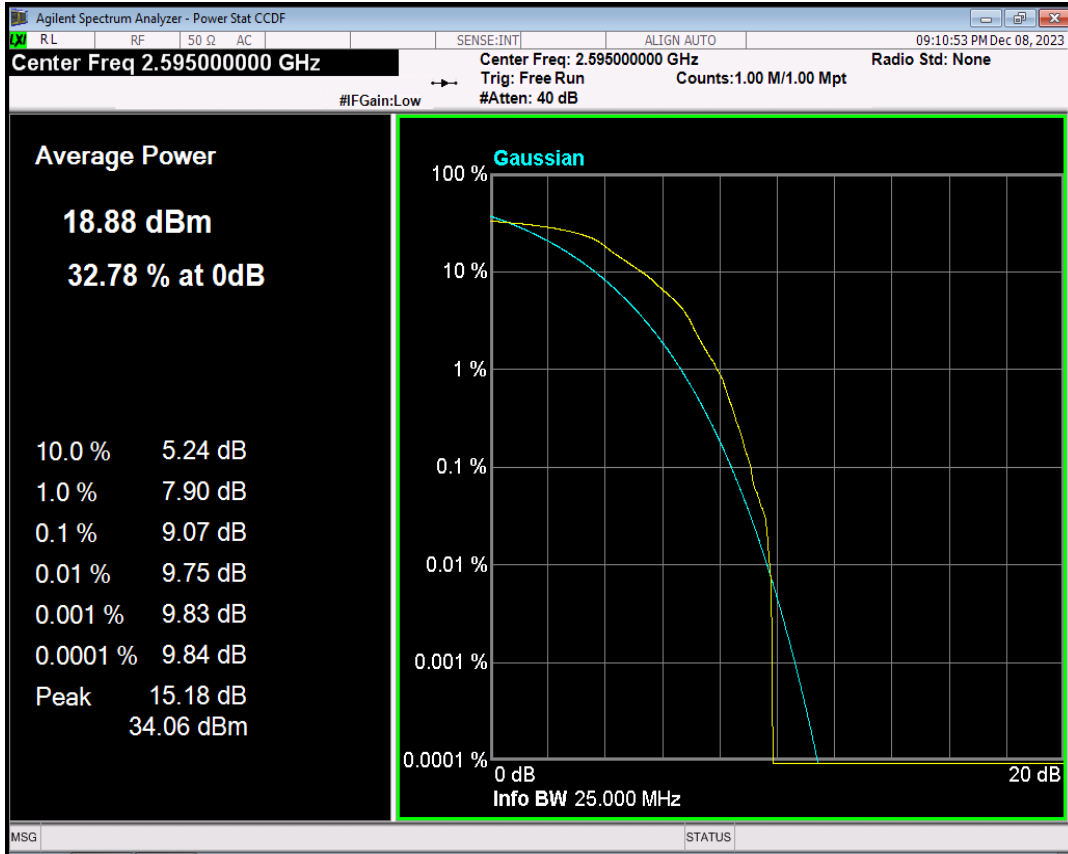
Band38 QPSK BW=5MHz Channel=37775 RB Size=1 Position=#0



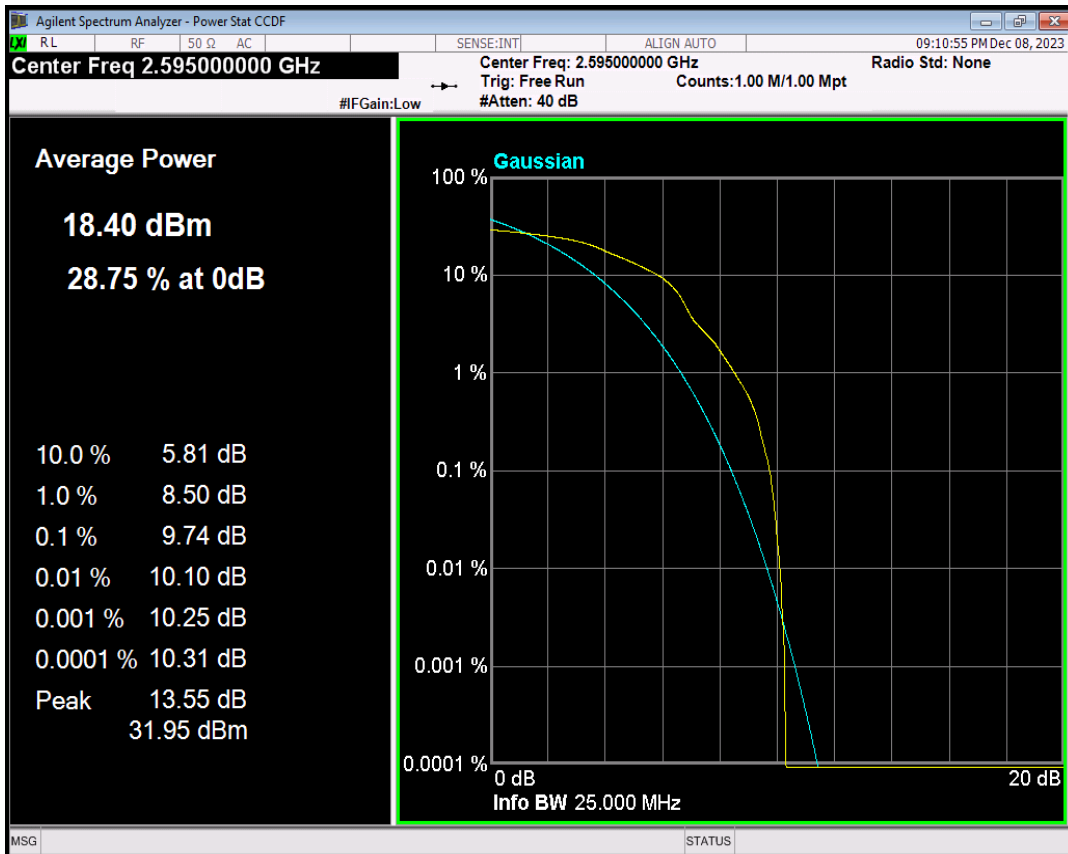
Band38 16QAM BW=5MHz Channel=37775 RB Size=1 Position=#0



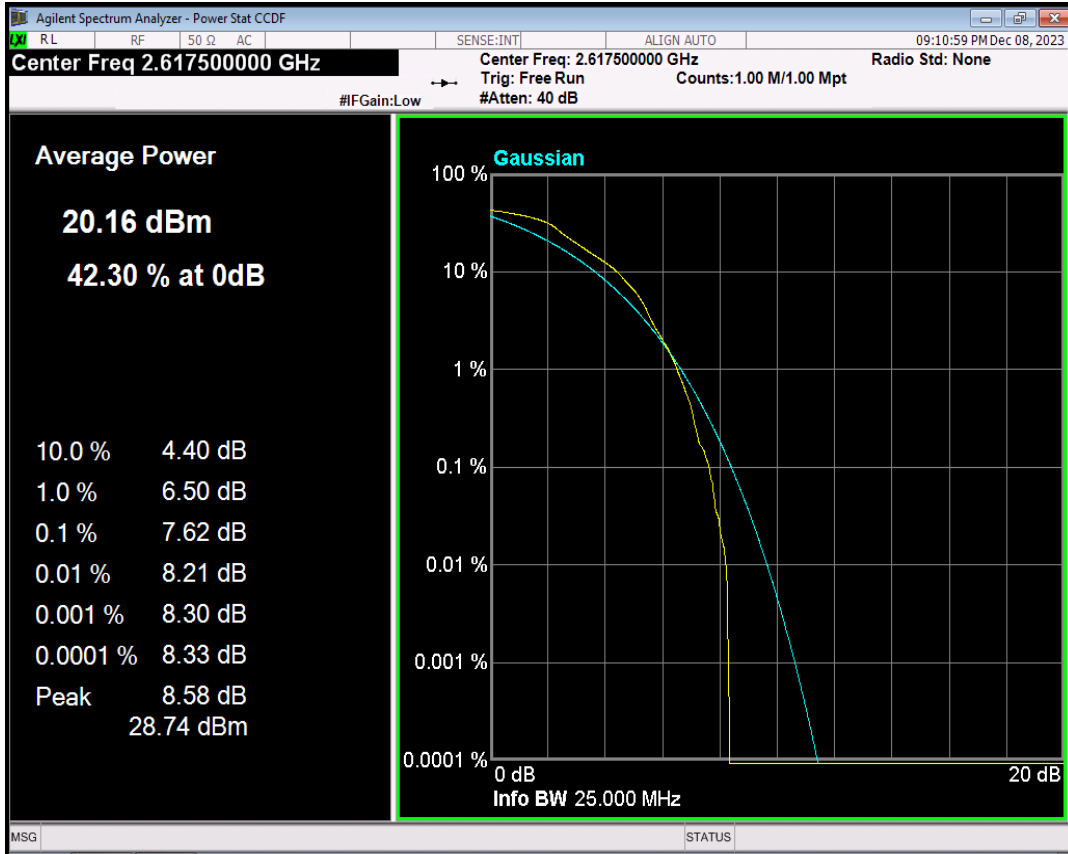
Band38 QPSK BW=5MHz Channel=38000 RB Size=1 Position=#0



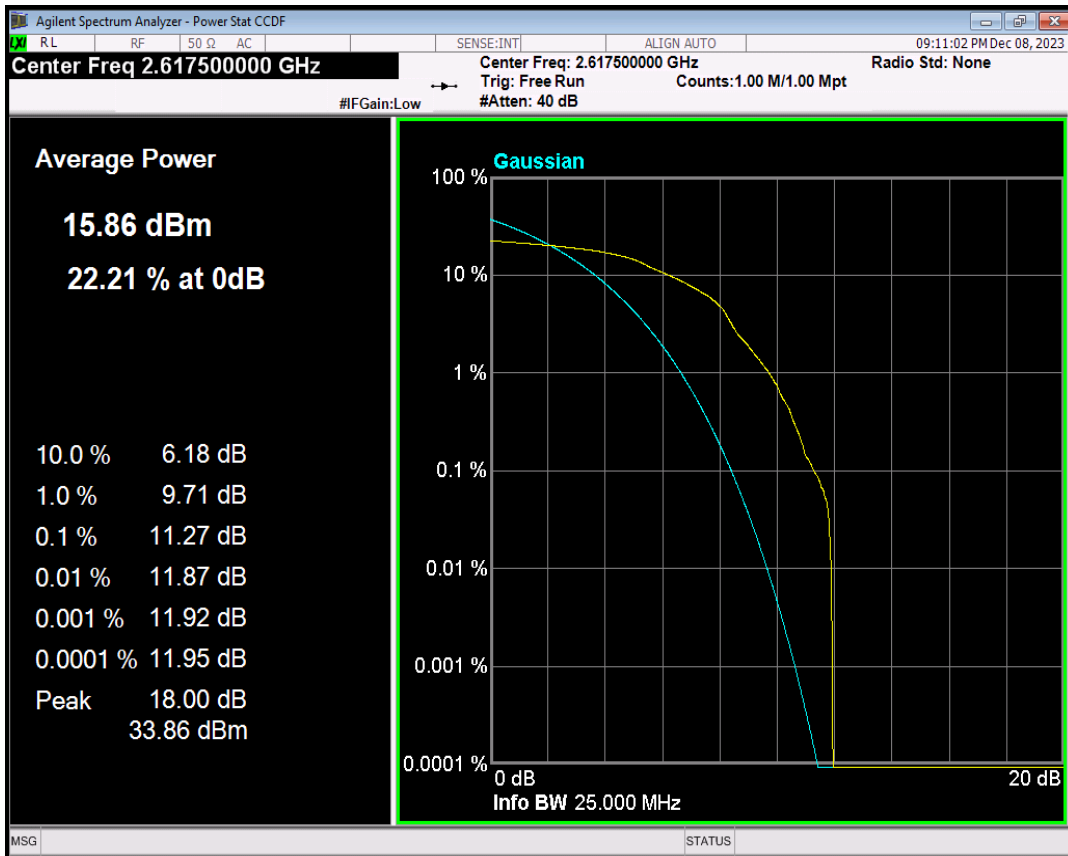
Band38 16QAM BW=5MHz Channel=38000 RB Size=1 Position=#0



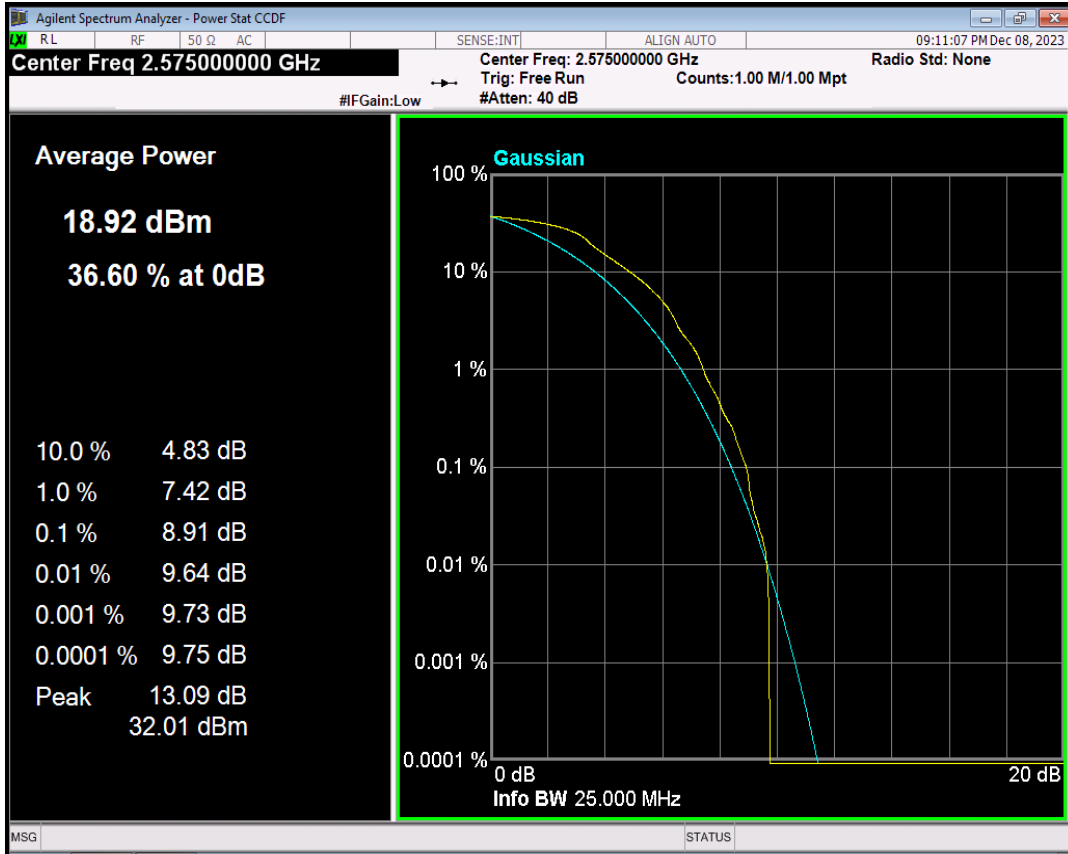
Band38 QPSK BW=5MHz Channel=38225 RB Size=1 Position=#0



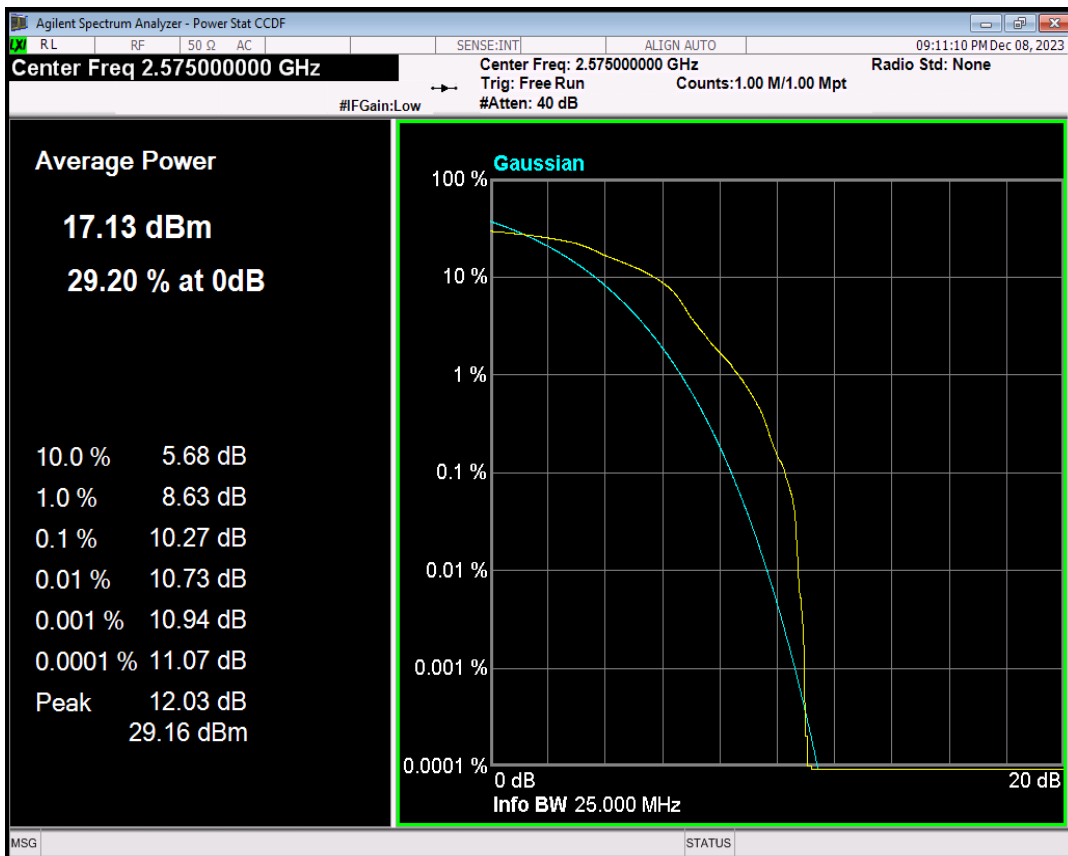
Band38 16QAM BW=5MHz Channel=38225 RB Size=1 Position=#0



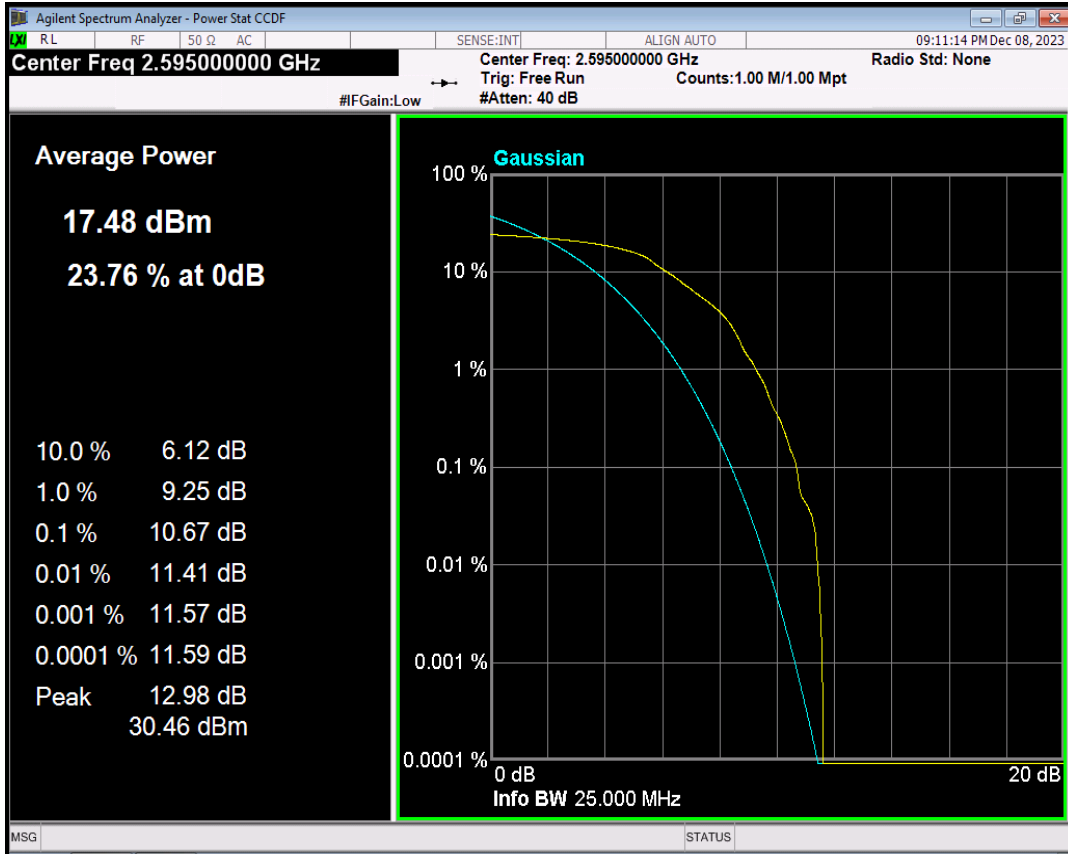
Band38 QPSK BW=10MHz Channel=37800 RB Size=1 Position=#0



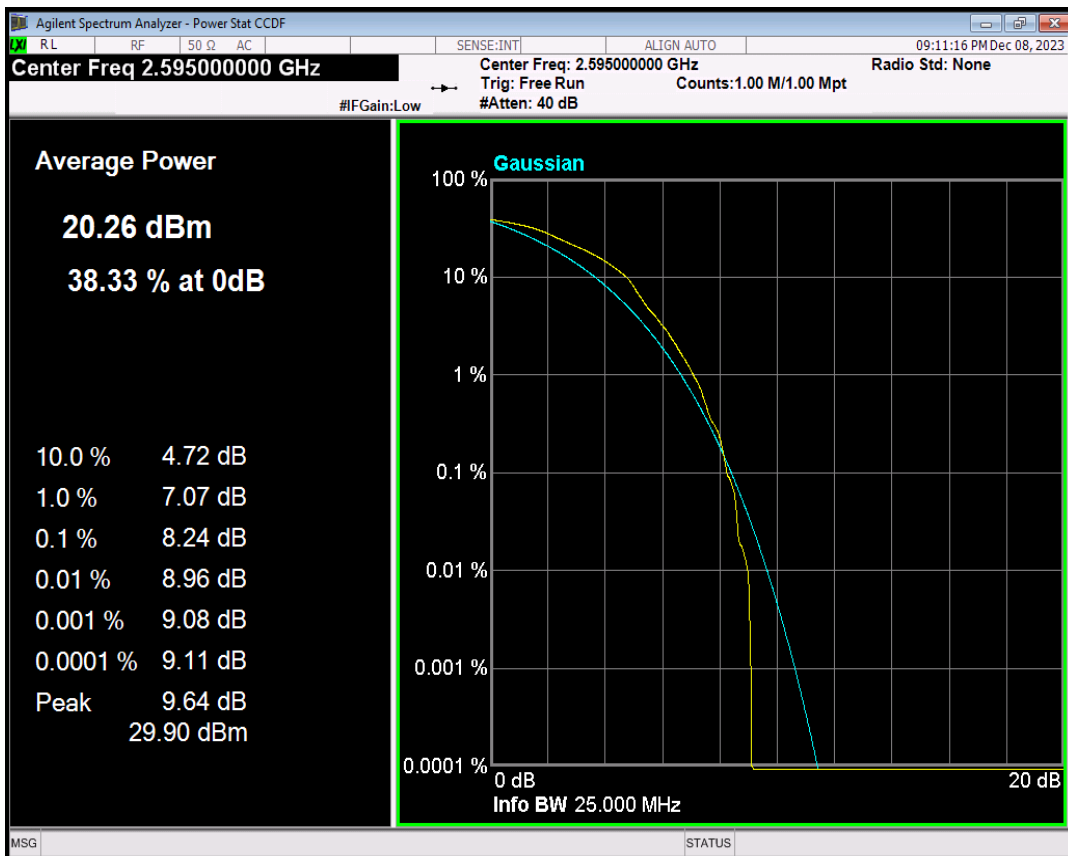
Band38 16QAM BW=10MHz Channel=37800 RB Size=1 Position=#0



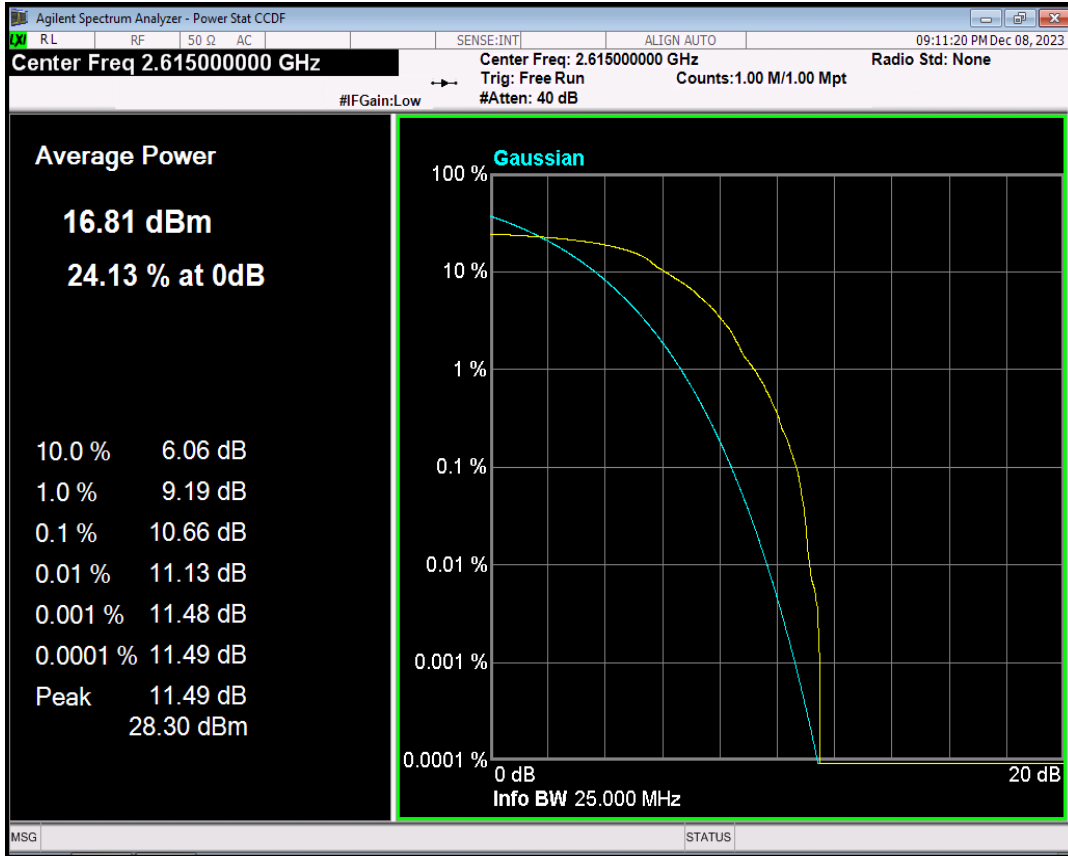
Band38 QPSK BW=10MHz Channel=38000 RB Size=1 Position=#0



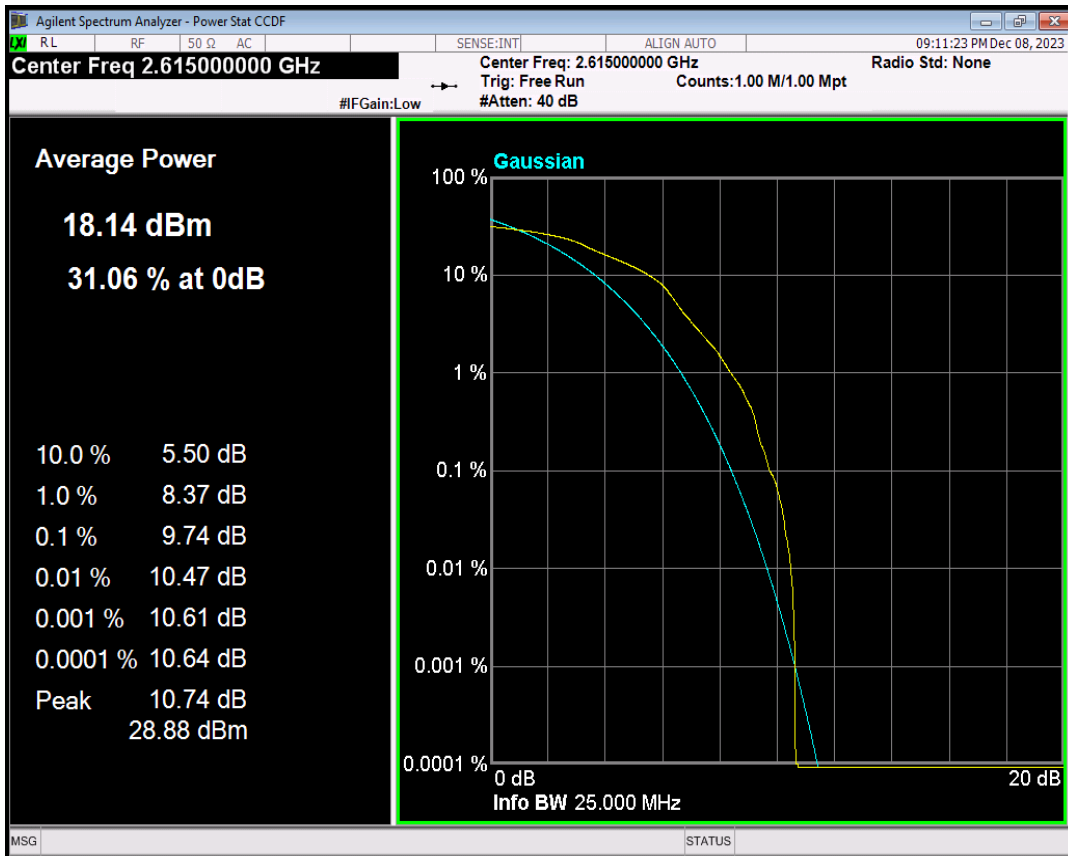
Band38 16QAM BW=10MHz Channel=38000 RB Size=1 Position=#0



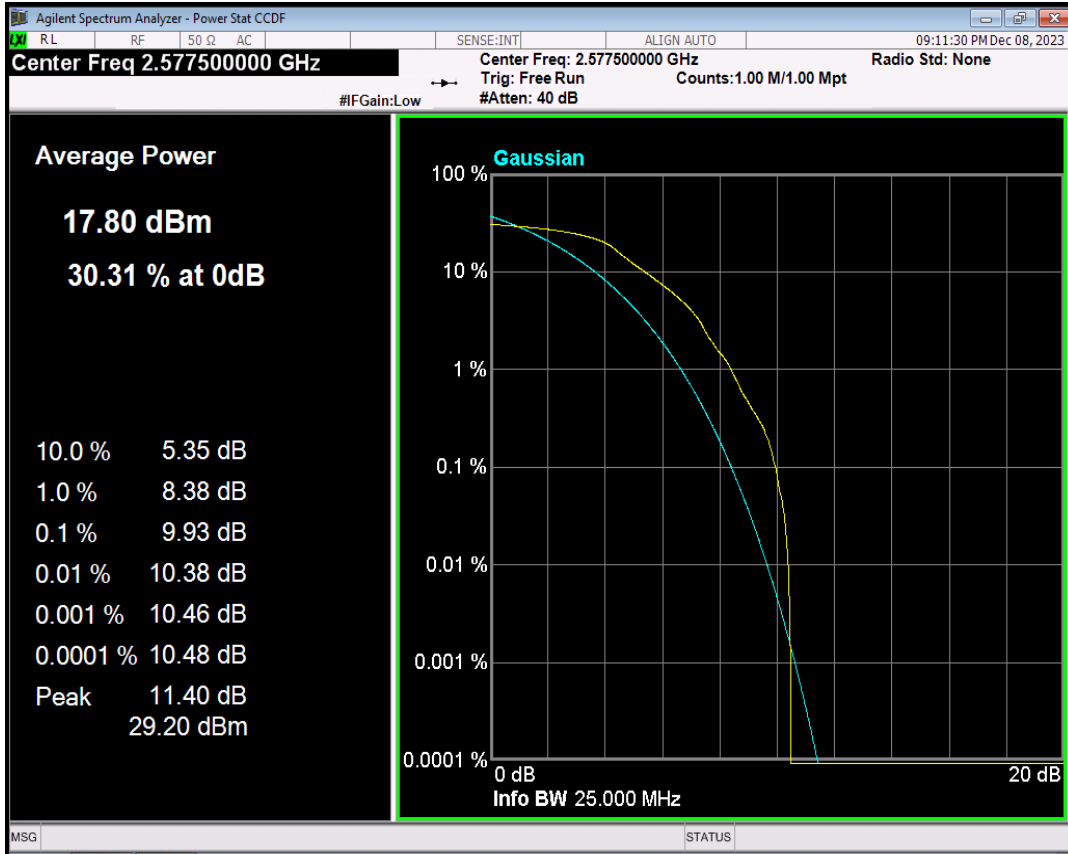
Band38 QPSK BW=10MHz Channel=38200 RB Size=1 Position=#0



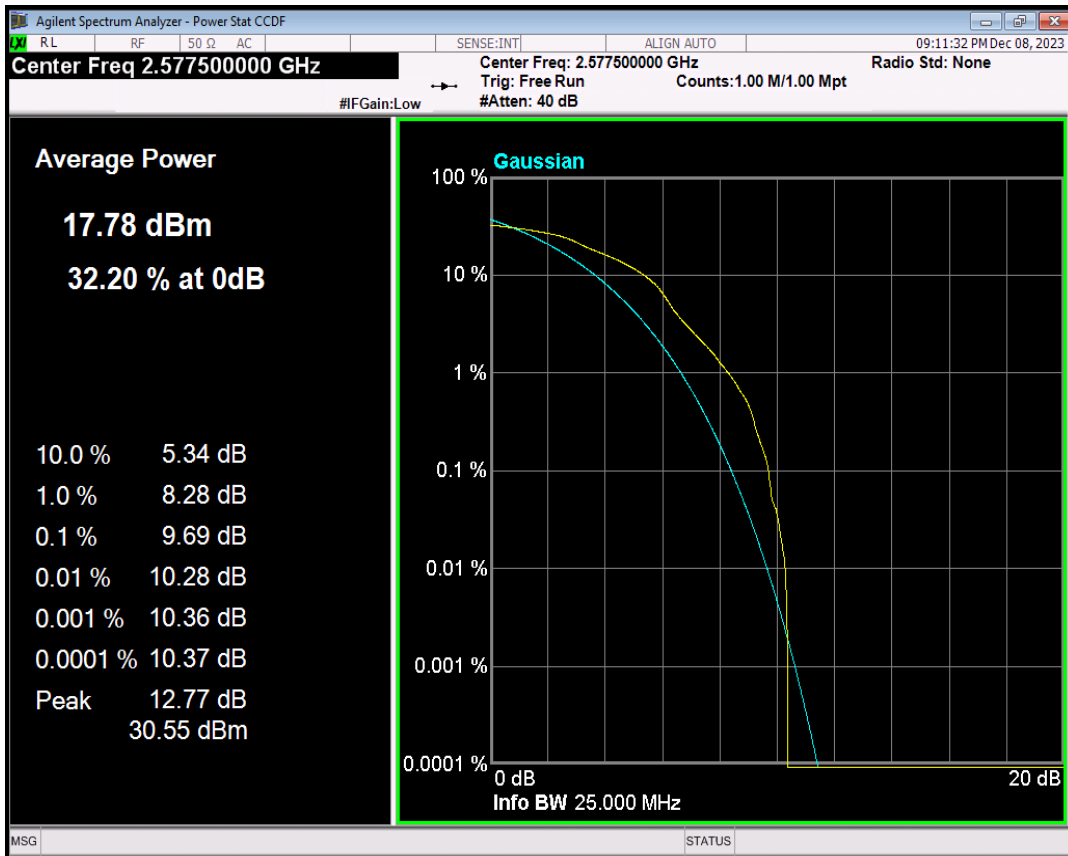
Band38 16QAM BW=10MHz Channel=38200 RB Size=1 Position=#0



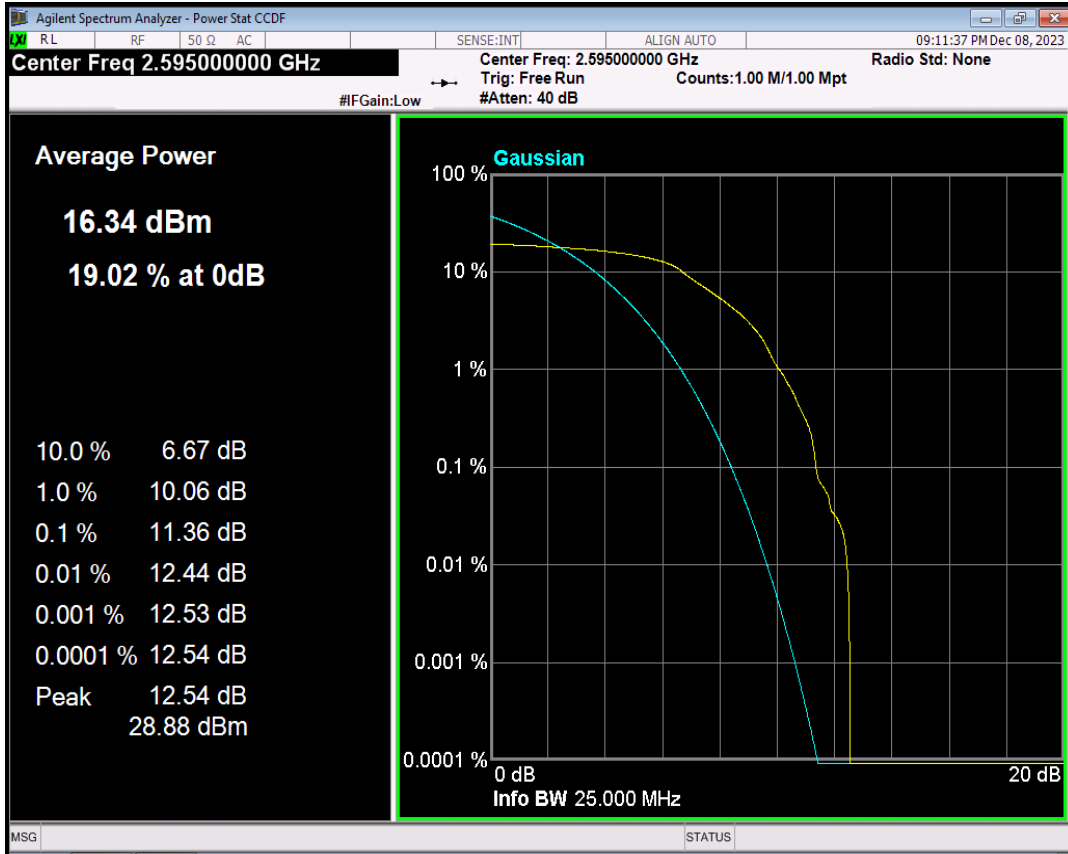
Band38 QPSK BW=15MHz Channel=37825 RB Size=1 Position=#0



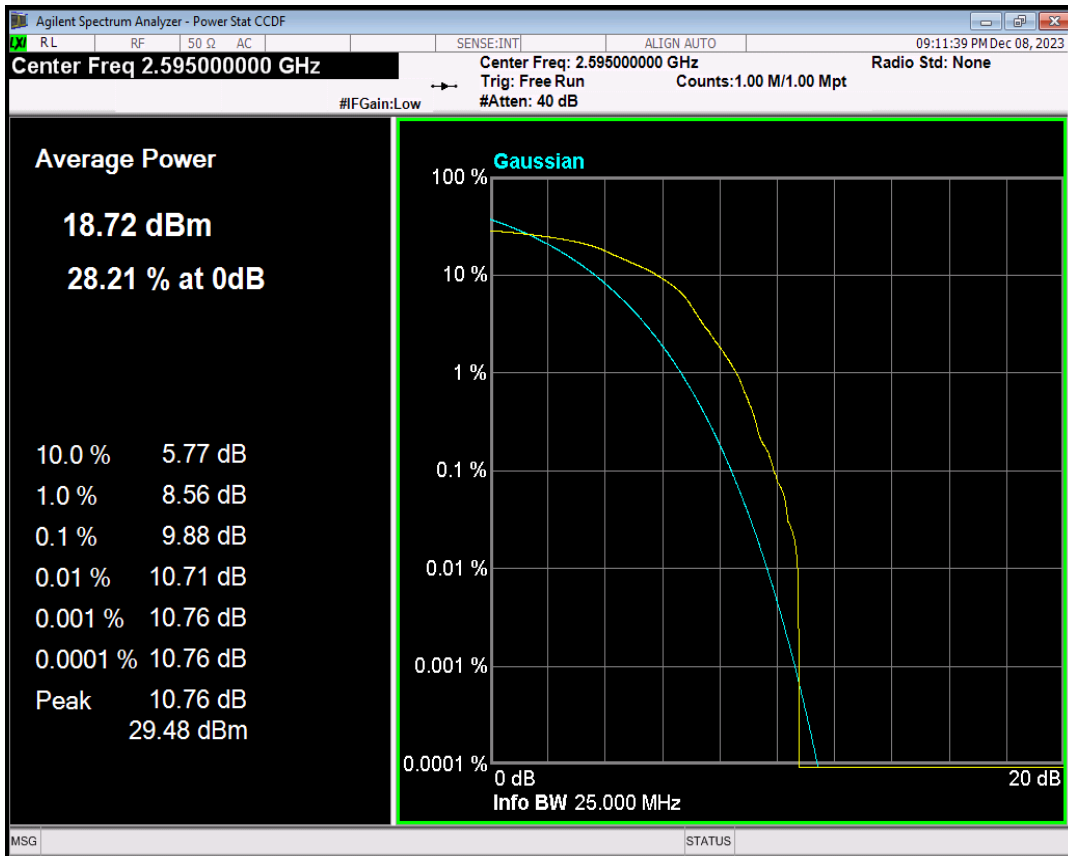
Band38 16QAM BW=15MHz Channel=37825 RB Size=1 Position=#0



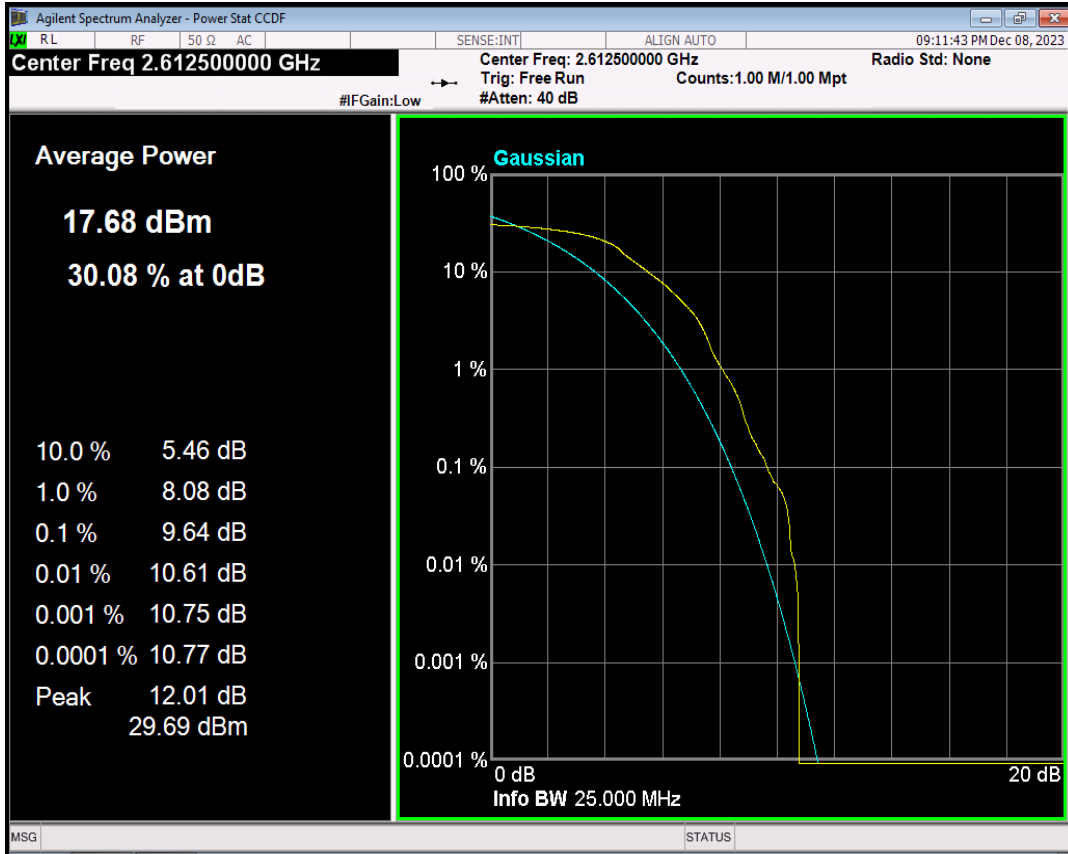
Band38 QPSK BW=15MHz Channel=38000 RB Size=1 Position=#0



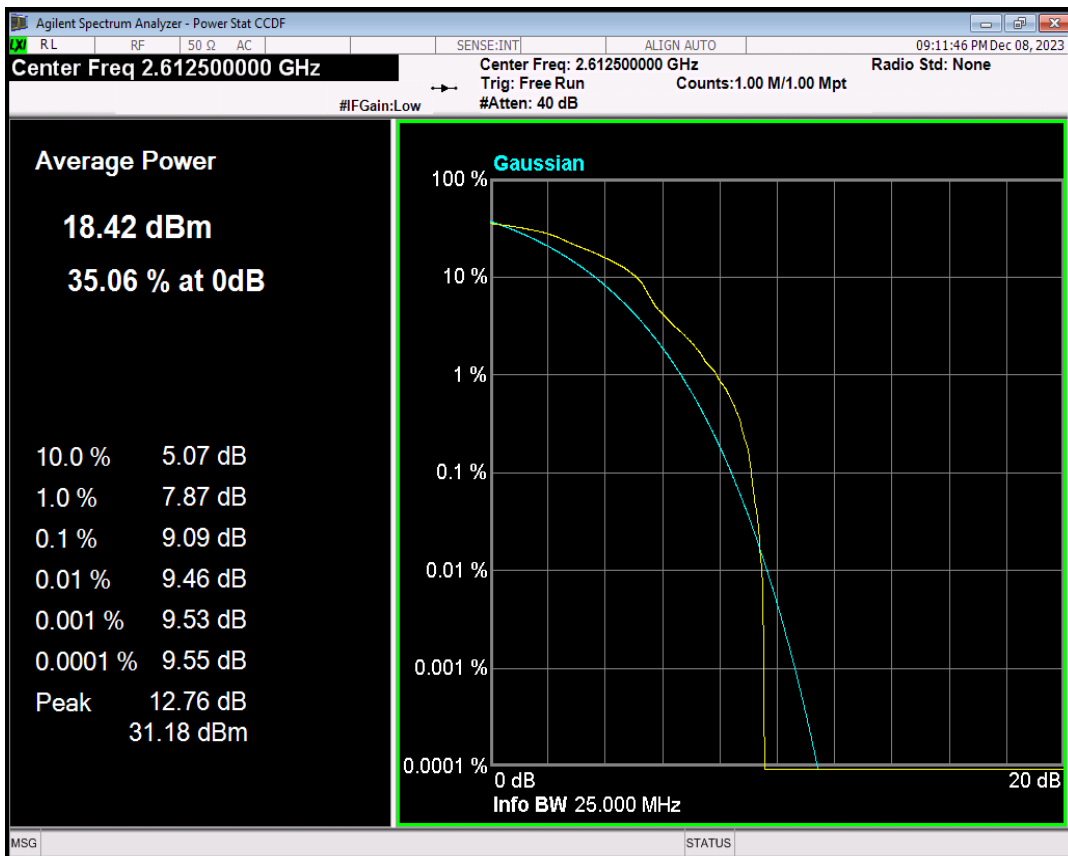
Band38 16QAM BW=15MHz Channel=38000 RB Size=1 Position=#0



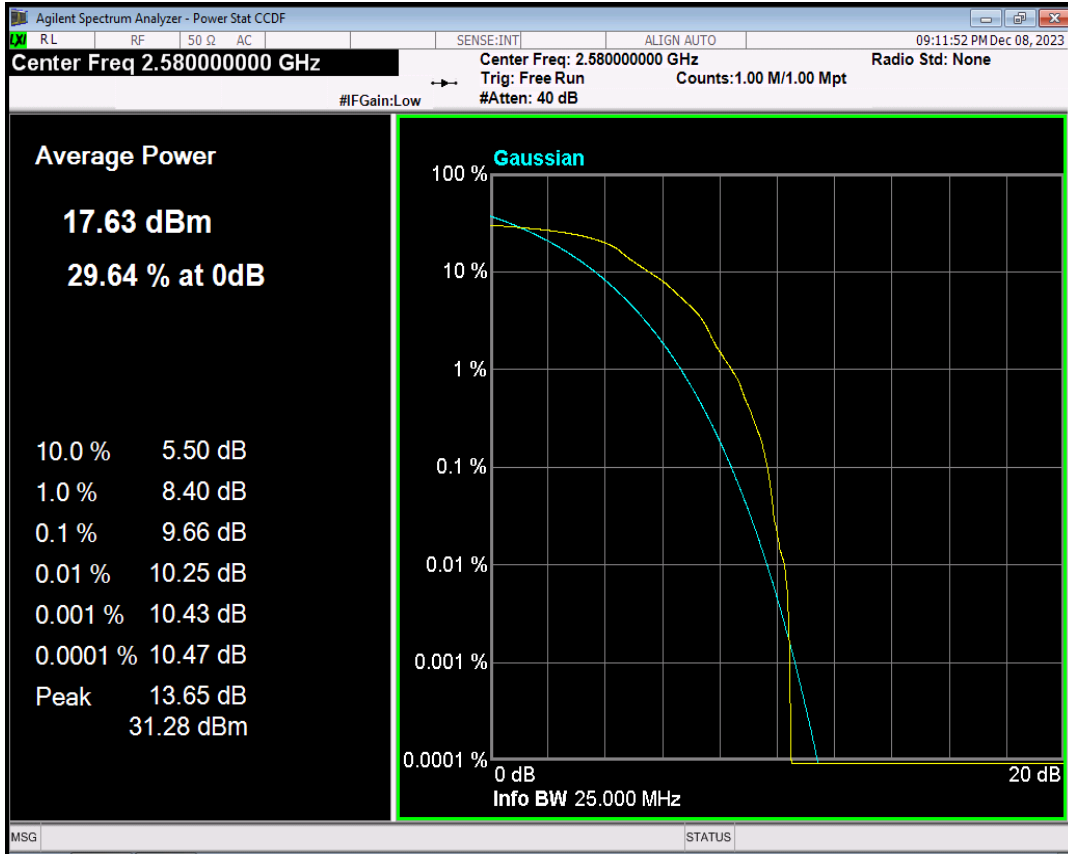
Band38 QPSK BW=15MHz Channel=38175 RB Size=1 Position=#0



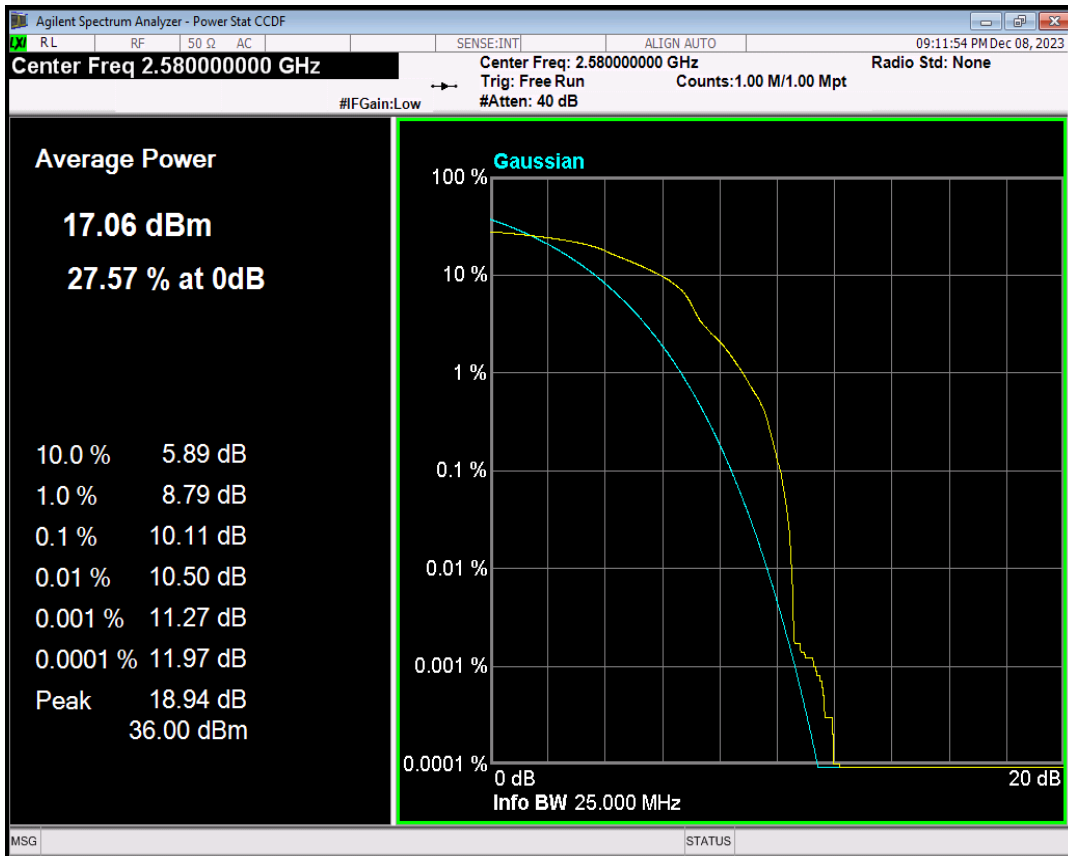
Band38 16QAM BW=15MHz Channel=38175 RB Size=1 Position=#0



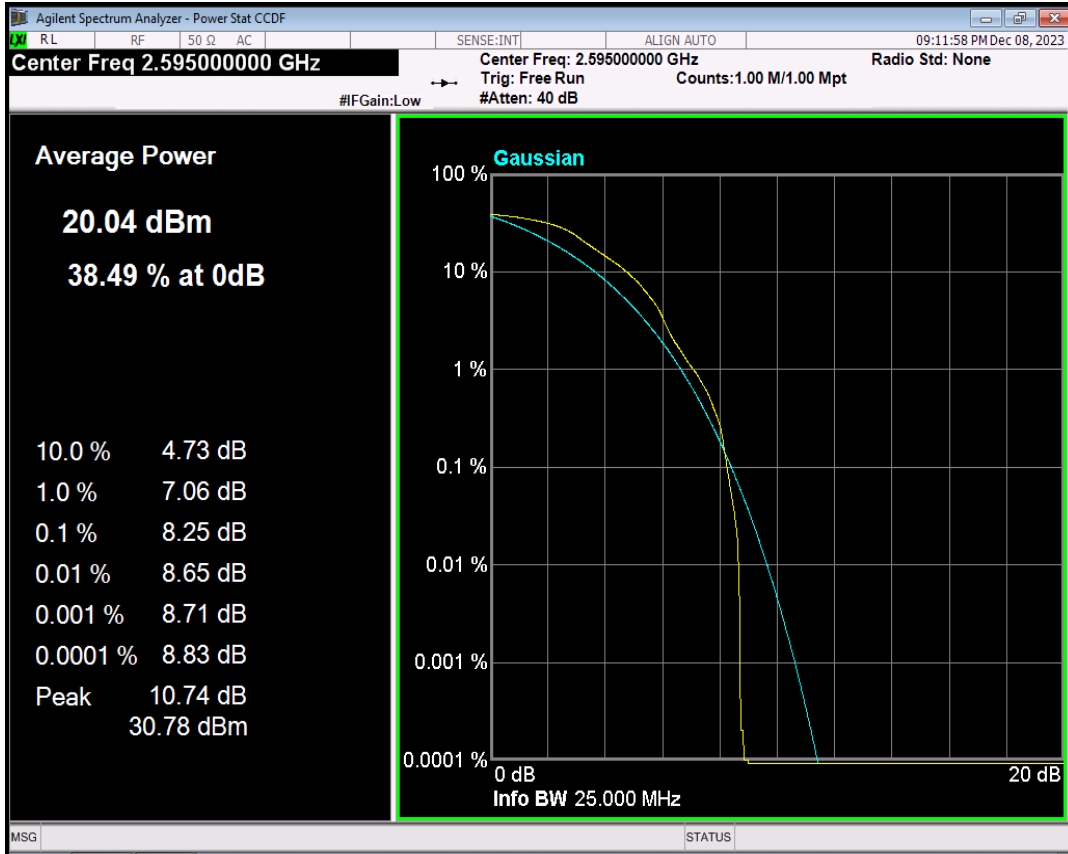
Band38 QPSK BW=20MHz Channel=37850 RB Size=1 Position=#0



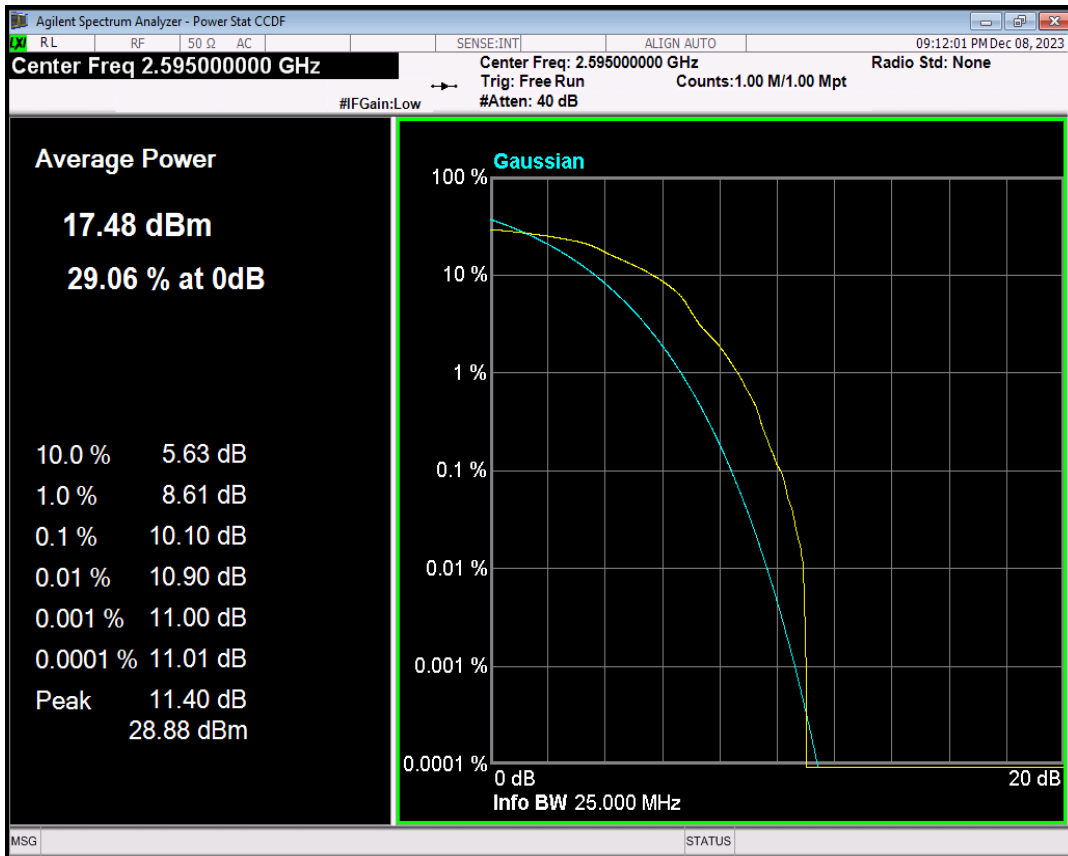
Band38 16QAM BW=20MHz Channel=37850 RB Size=1 Position=#0



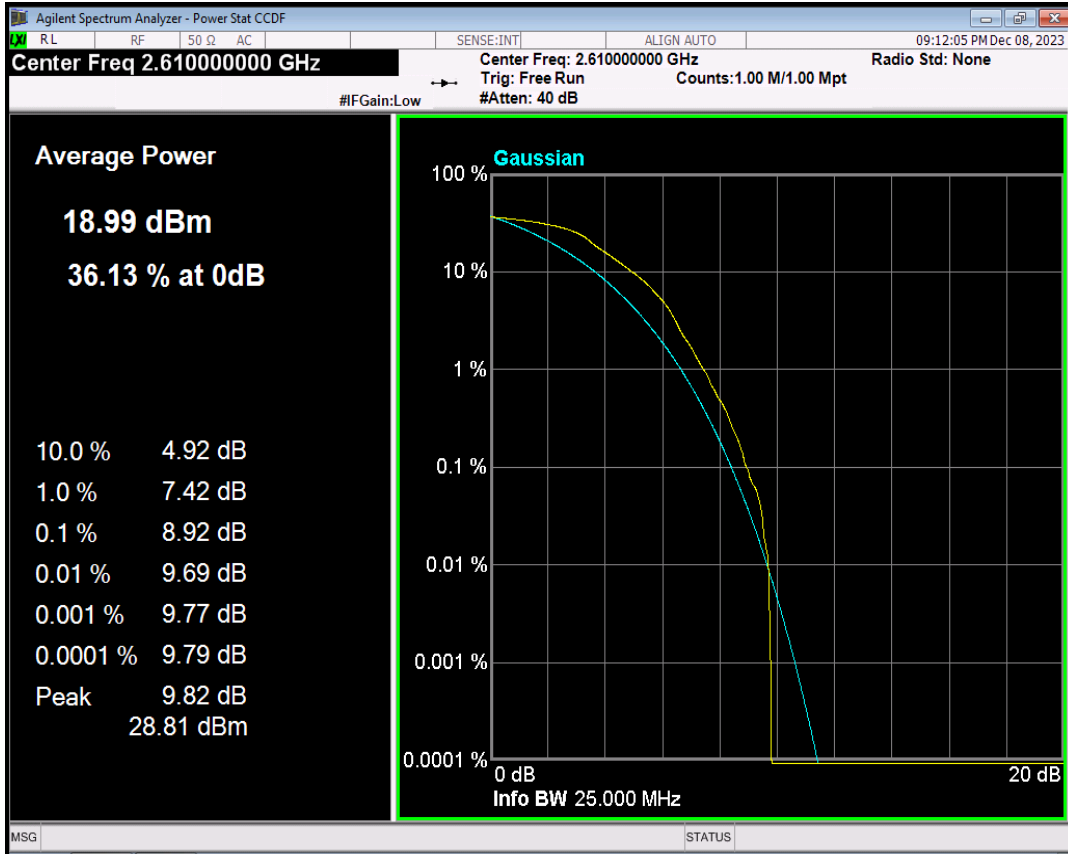
Band38 QPSK BW=20MHz Channel=38000 RB Size=1 Position=#0



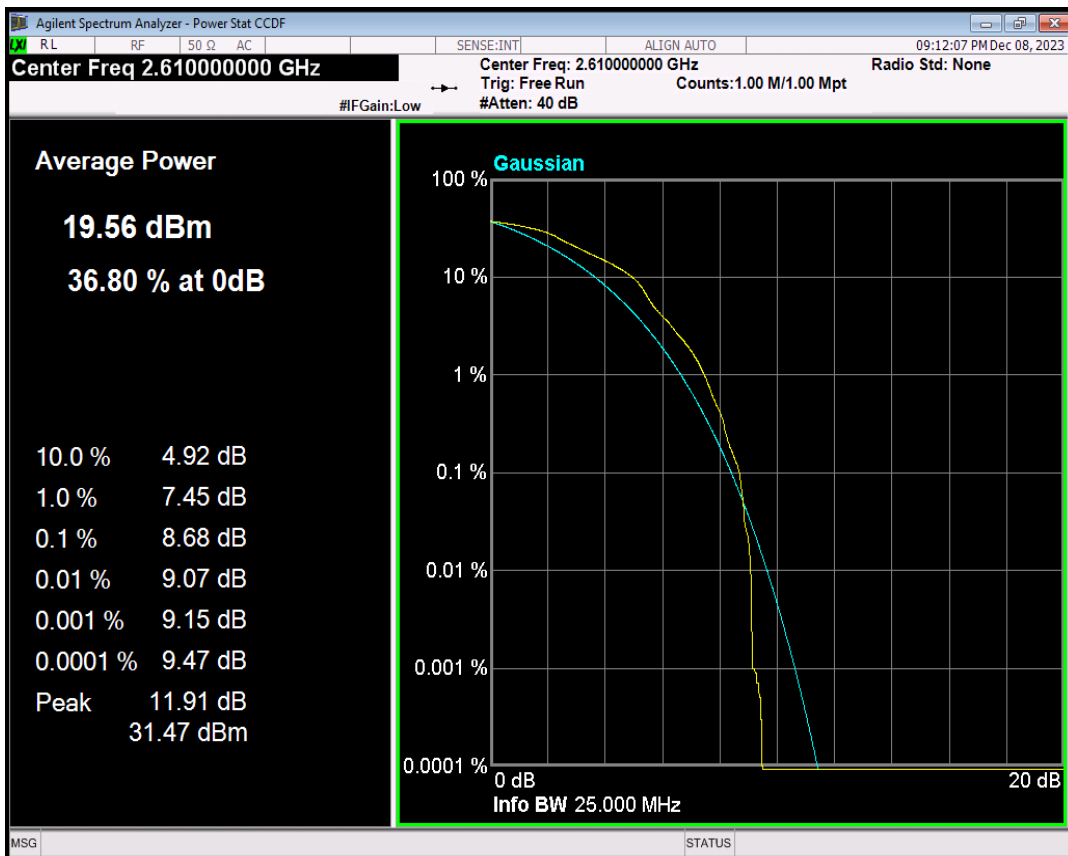
Band38 16QAM BW=20MHz Channel=38000 RB Size=1 Position=#0



Band38 QPSK BW=20MHz Channel=38150 RB Size=1 Position=#0



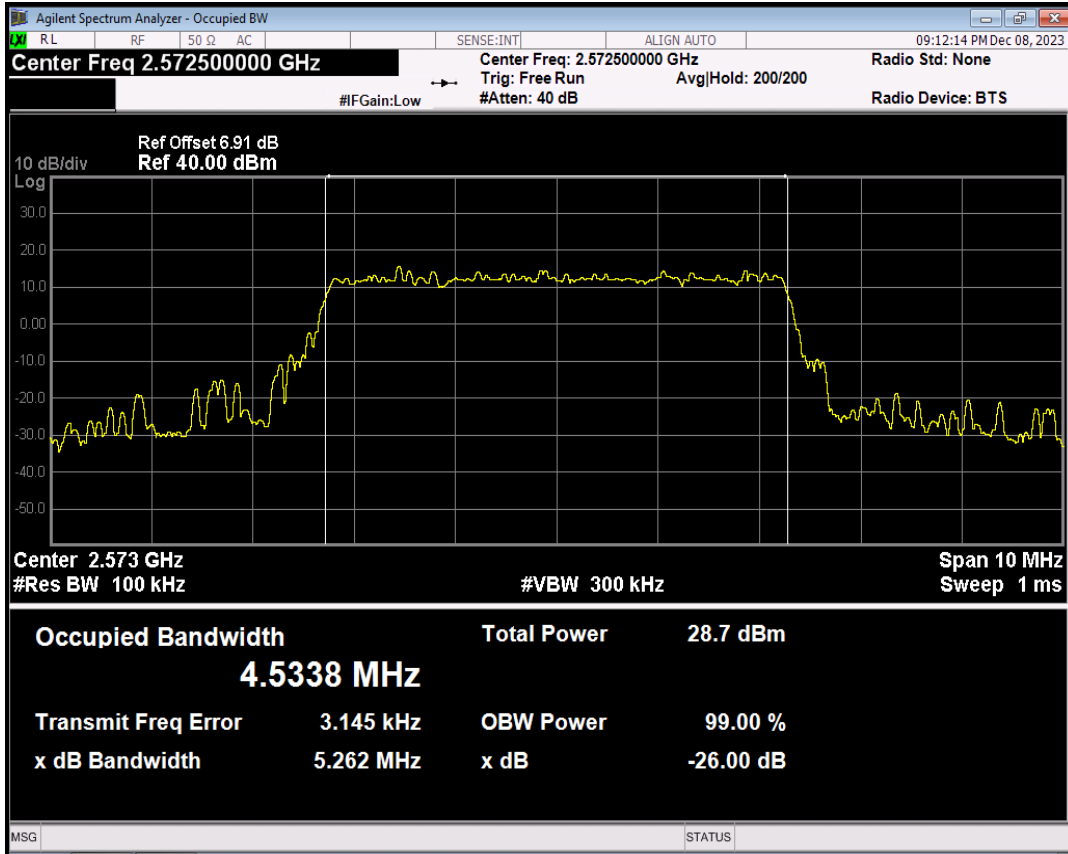
Band38 16QAM BW=20MHz Channel=38150 RB Size=1 Position=#0



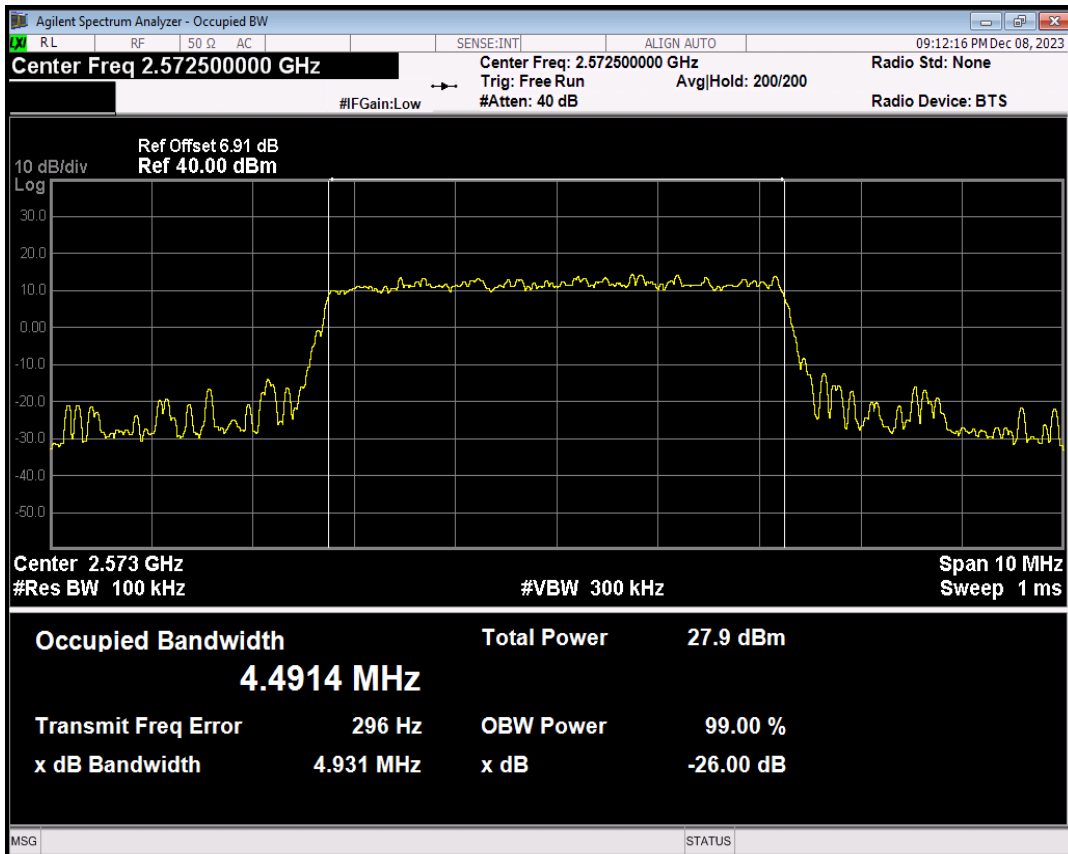
Appendix 4. Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band38	5	37775	25	#0	QPSK	4.534	5.262	PASS
Band38	5	37775	25	#0	16QAM	4.491	4.931	PASS
Band38	5	38000	25	#0	QPSK	4.517	5.007	PASS
Band38	5	38000	25	#0	16QAM	4.491	4.980	PASS
Band38	5	38225	25	#0	QPSK	4.498	5.038	PASS
Band38	5	38225	25	#0	16QAM	4.489	5.060	PASS
Band38	10	37800	50	#0	QPSK	8.976	9.873	PASS
Band38	10	37800	50	#0	16QAM	8.998	9.854	PASS
Band38	10	38000	50	#0	QPSK	9.044	10.193	PASS
Band38	10	38000	50	#0	16QAM	8.963	9.893	PASS
Band38	10	38200	50	#0	QPSK	9.050	10.136	PASS
Band38	10	38200	50	#0	16QAM	8.990	9.792	PASS
Band38	15	37825	75	#0	QPSK	13.417	14.502	PASS
Band38	15	37825	75	#0	16QAM	13.437	14.790	PASS
Band38	15	38000	75	#0	QPSK	13.460	14.829	PASS
Band38	15	38000	75	#0	16QAM	13.453	15.720	PASS
Band38	15	38175	75	#0	QPSK	13.434	14.721	PASS
Band38	15	38175	75	#0	16QAM	13.467	14.822	PASS
Band38	20	37850	100	#0	QPSK	17.929	19.665	PASS
Band38	20	37850	100	#0	16QAM	17.953	19.517	PASS
Band38	20	38000	100	#0	QPSK	18.023	19.076	PASS
Band38	20	38000	100	#0	16QAM	18.036	20.755	PASS
Band38	20	38150	100	#0	QPSK	17.988	19.329	PASS
Band38	20	38150	100	#0	16QAM	17.982	20.135	PASS

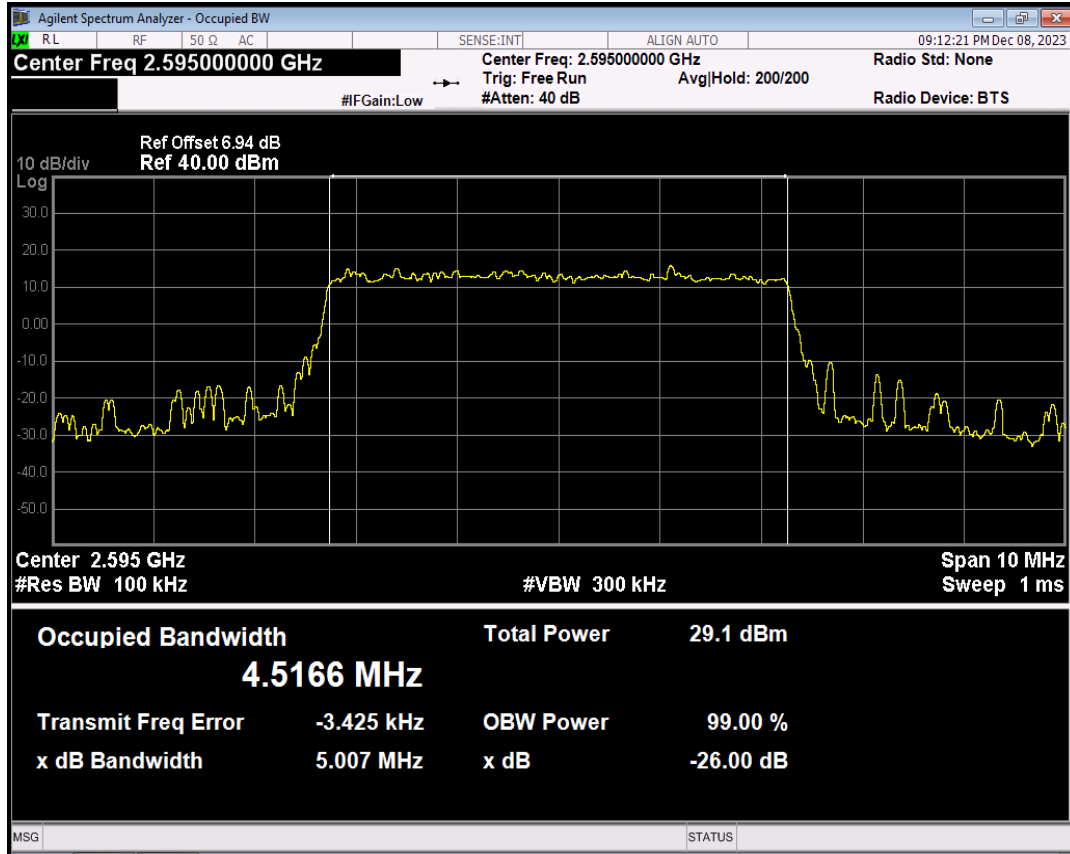
Band38 QPSK BW=5MHz Channel=37775 RB Size=25 Position=#0



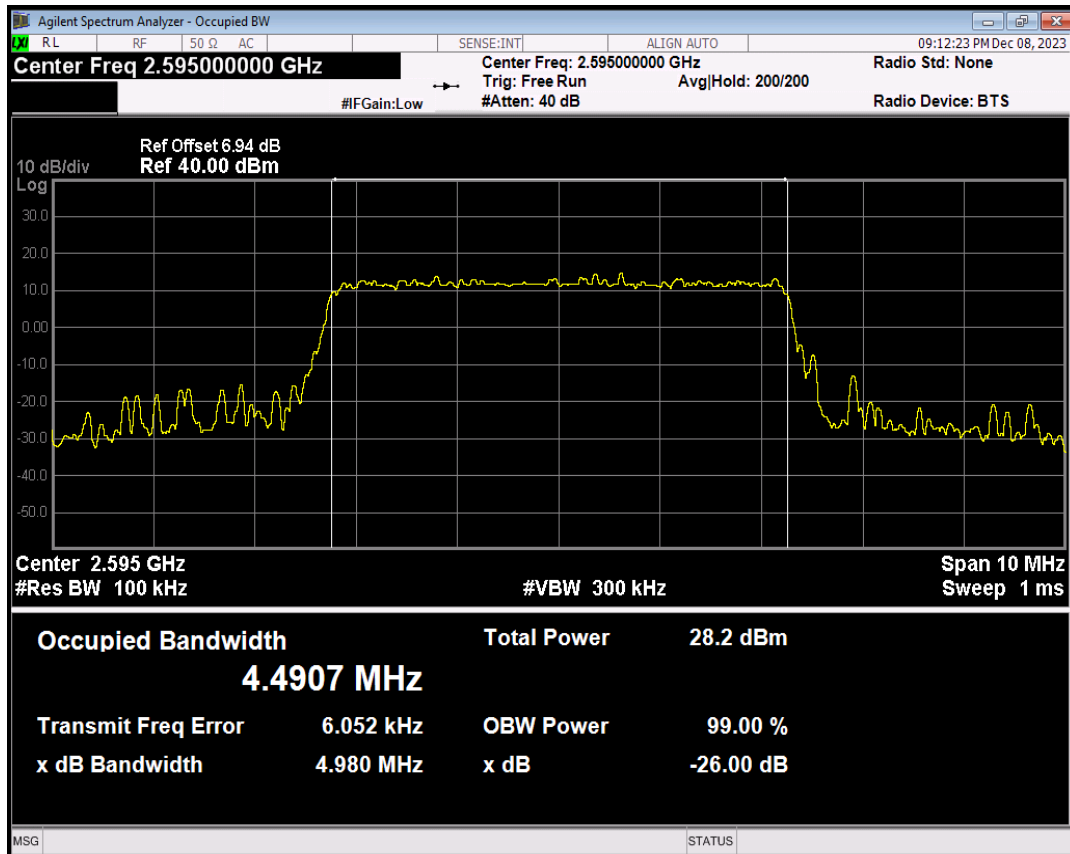
Band38 16QAM BW=5MHz Channel=37775 RB Size=25 Position=#0



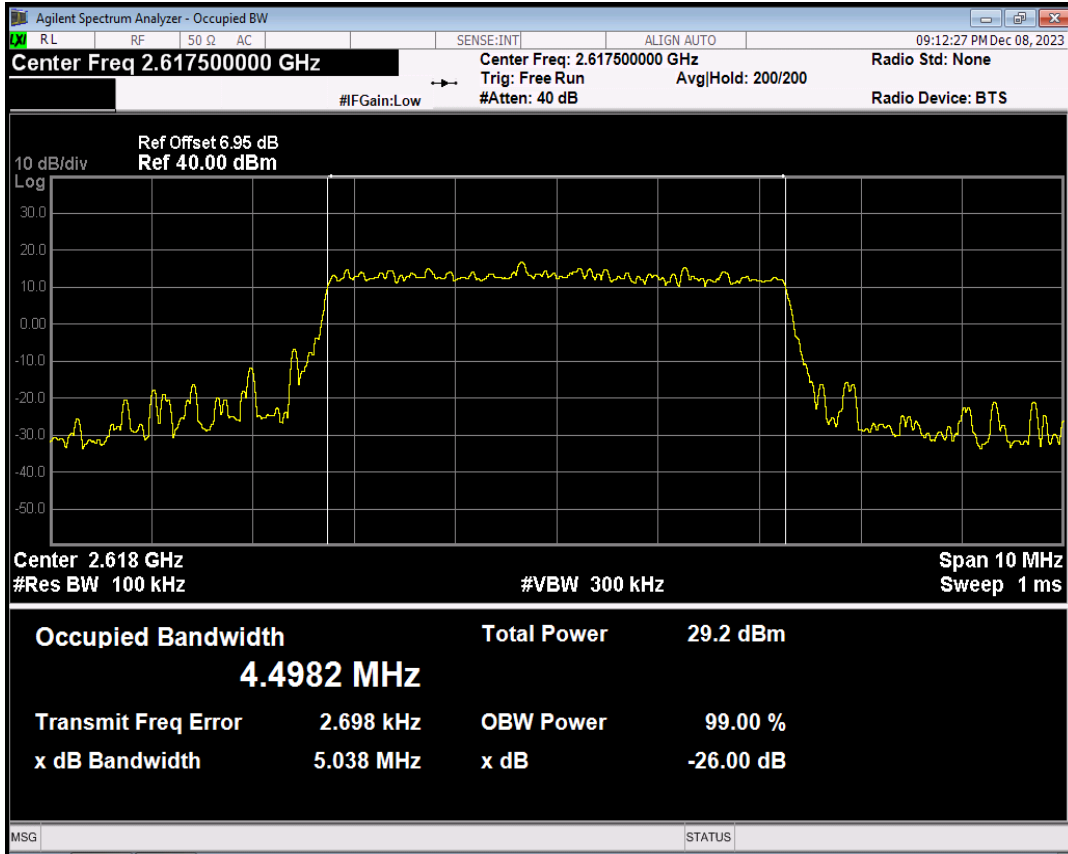
Band38 QPSK BW=5MHz Channel=38000 RB Size=25 Position=#0



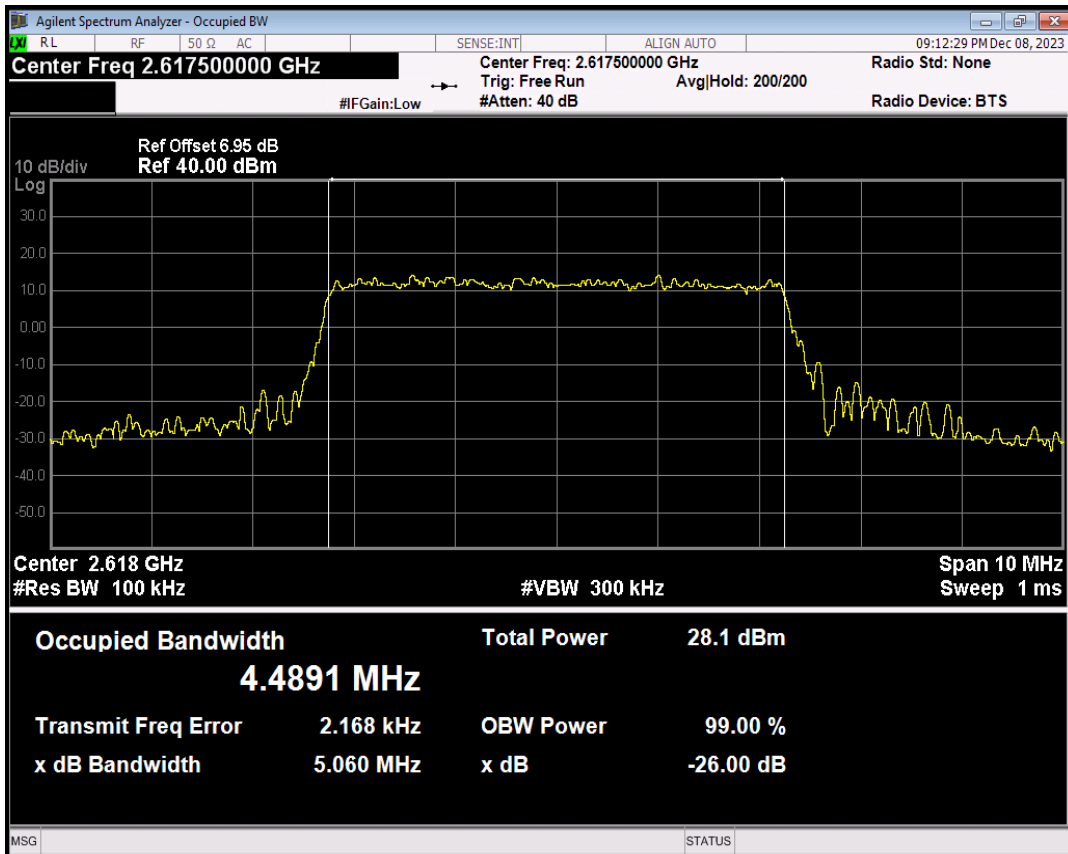
Band38 16QAM BW=5MHz Channel=38000 RB Size=25 Position=#0



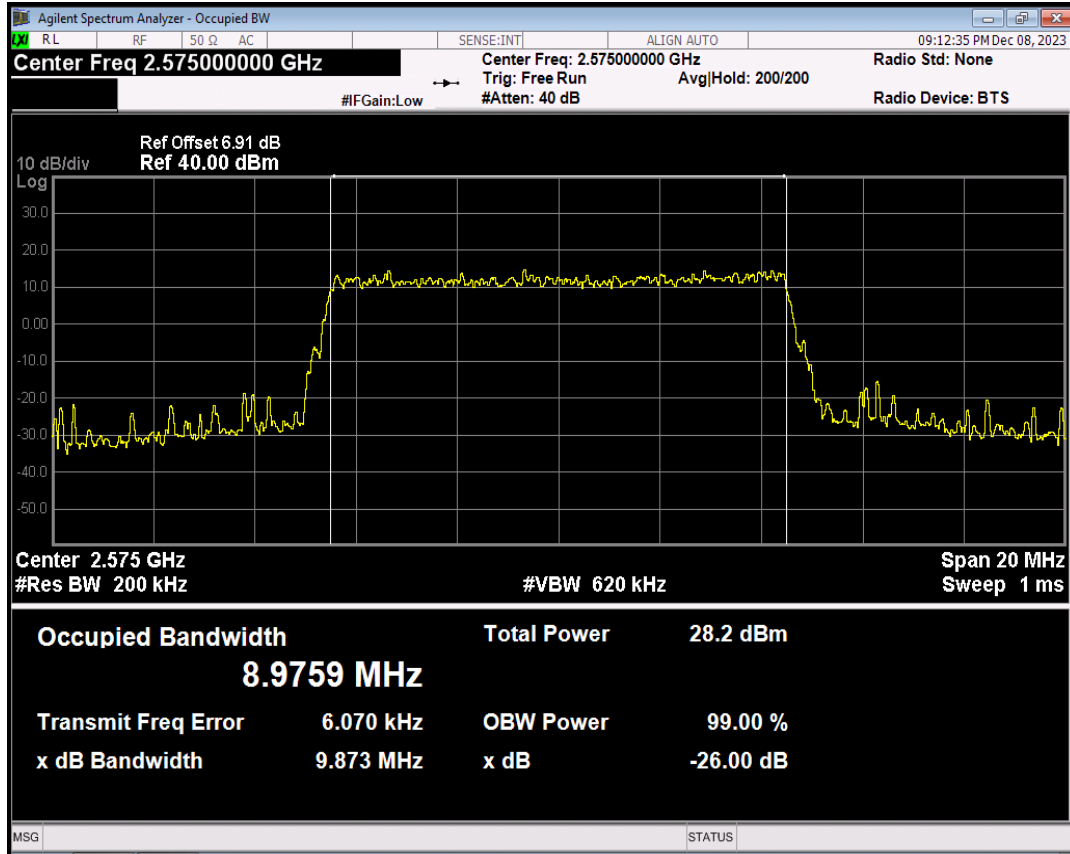
Band38 QPSK BW=5MHz Channel=38225 RB Size=25 Position=#0



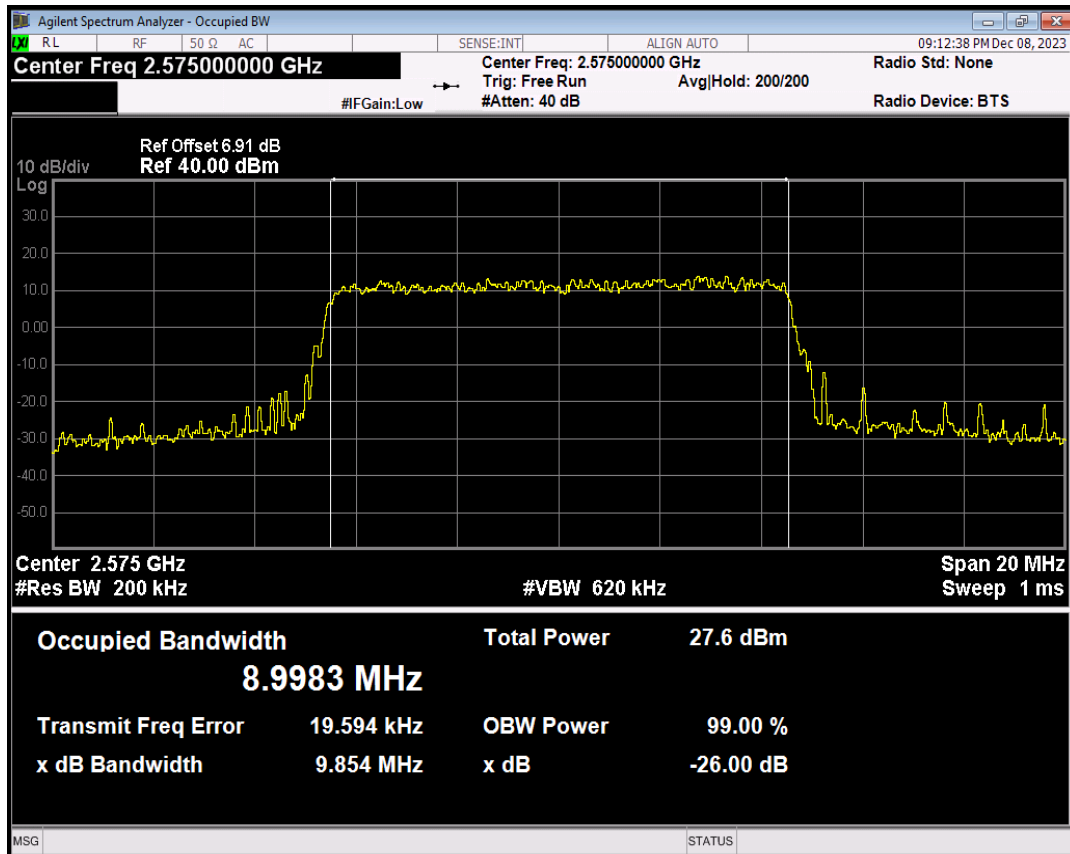
Band38 16QAM BW=5MHz Channel=38225 RB Size=25 Position=#0



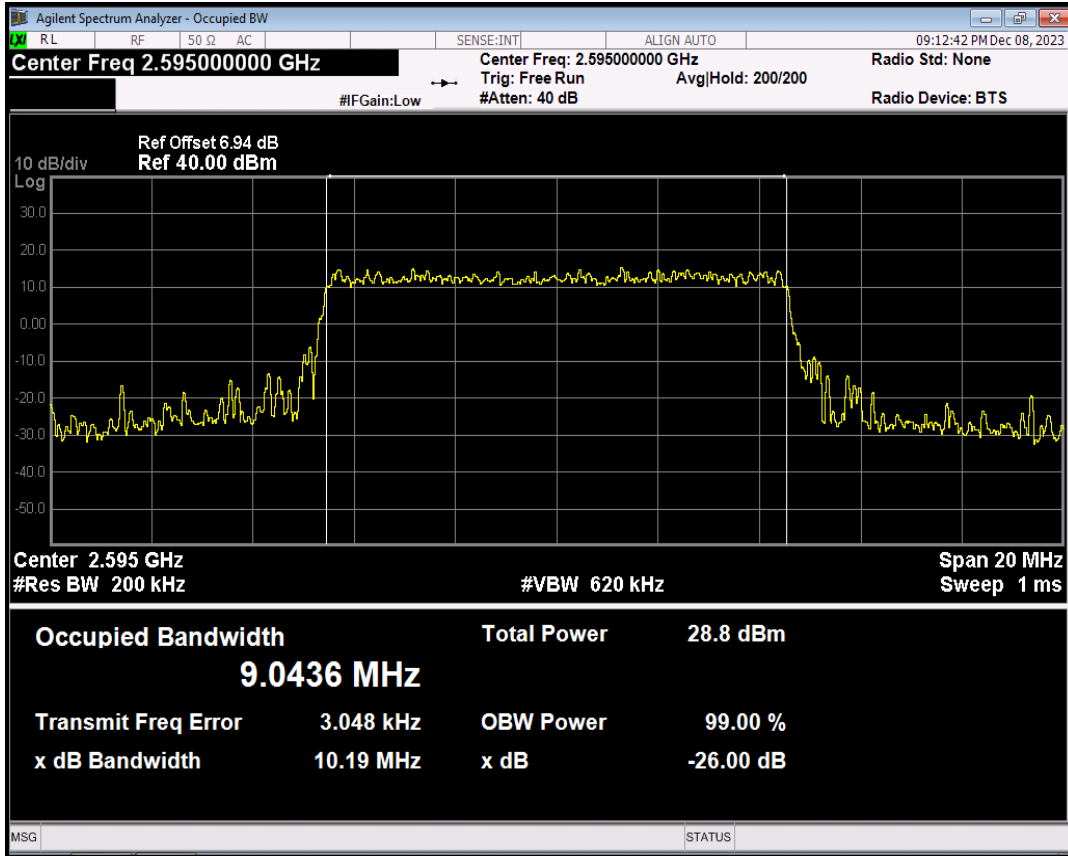
Band38 QPSK BW=10MHz Channel=37800 RB Size=50 Position=#0



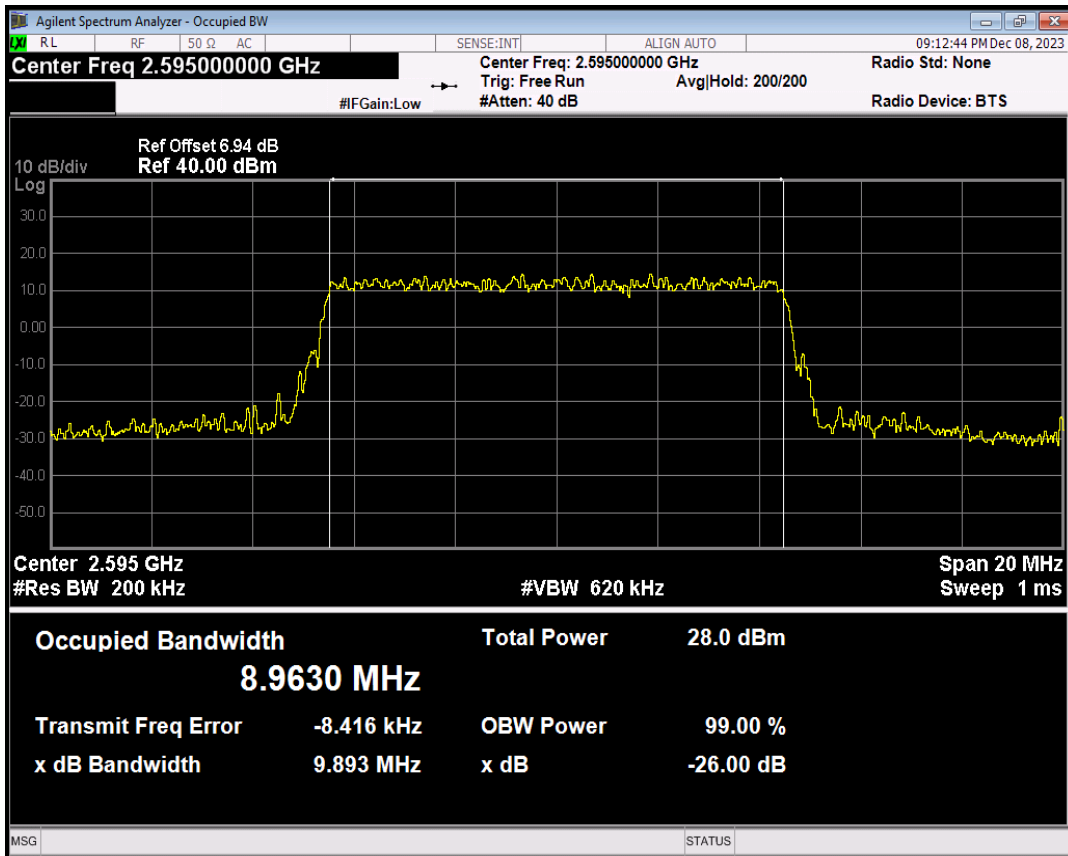
Band38 16QAM BW=10MHz Channel=37800 RB Size=50 Position=#0



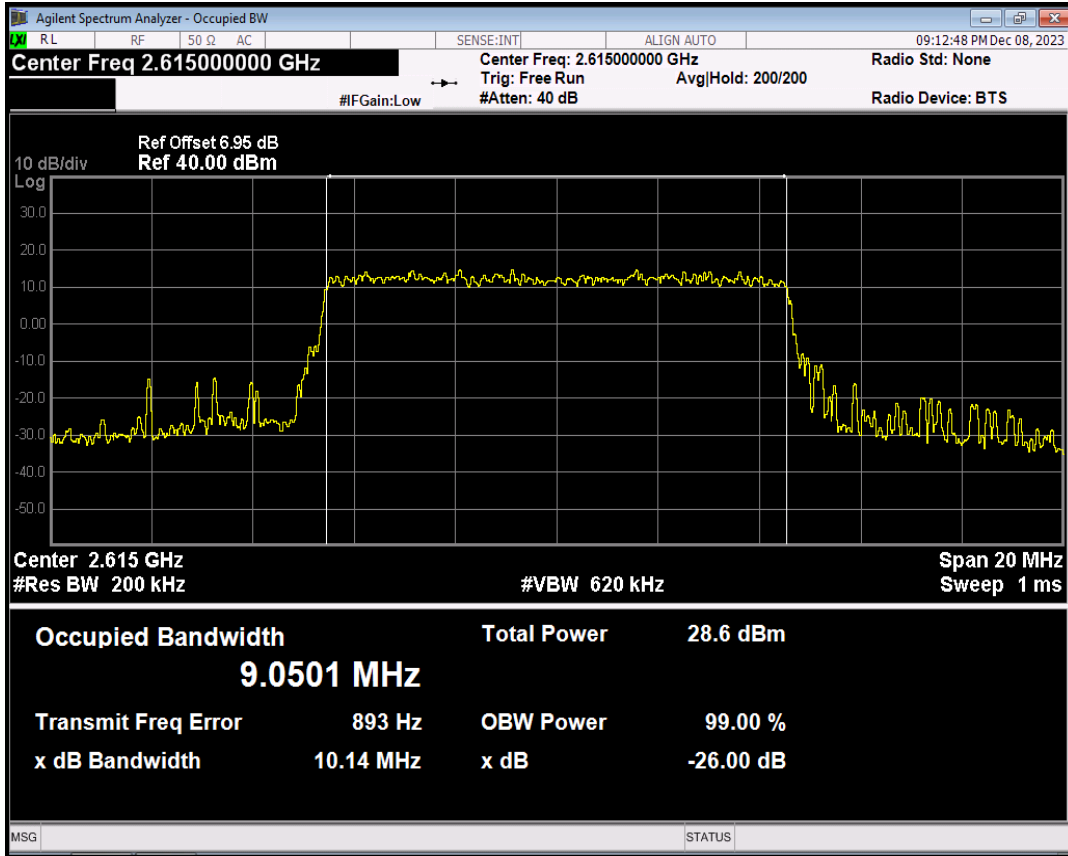
Band38 QPSK BW=10MHz Channel=38000 RB Size=50 Position=#0



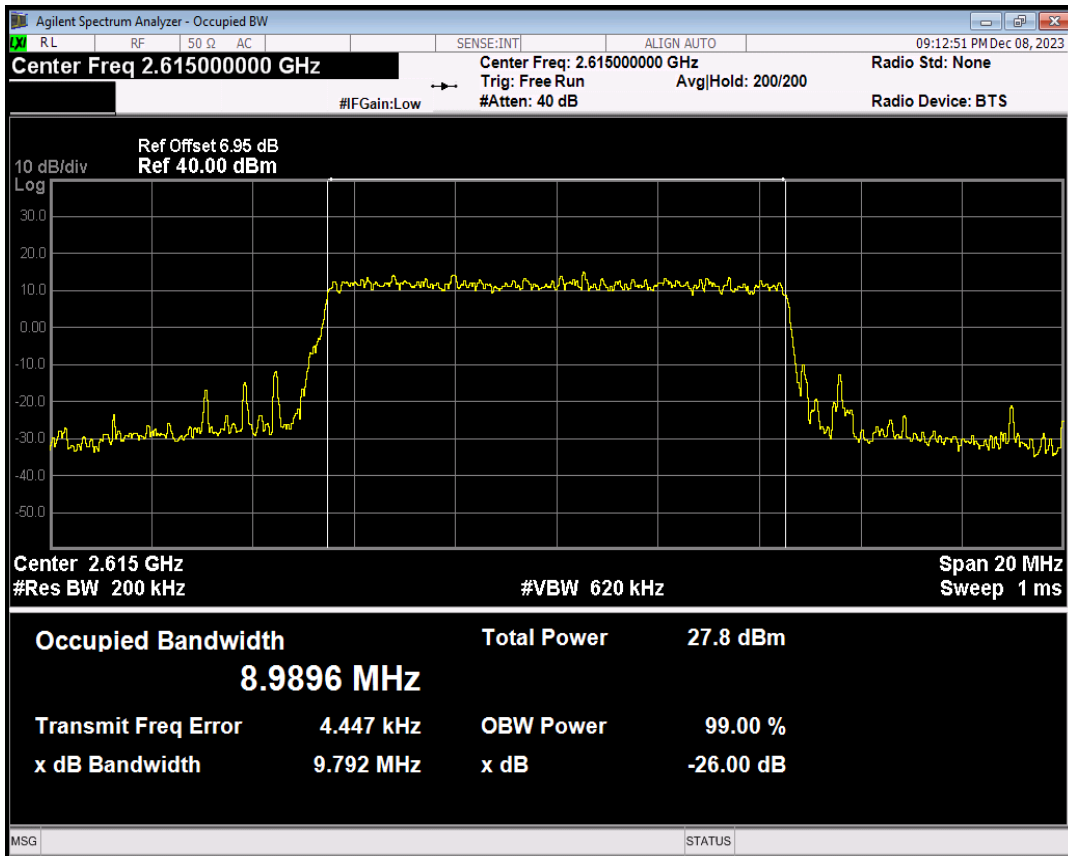
Band38 16QAM BW=10MHz Channel=38000 RB Size=50 Position=#0



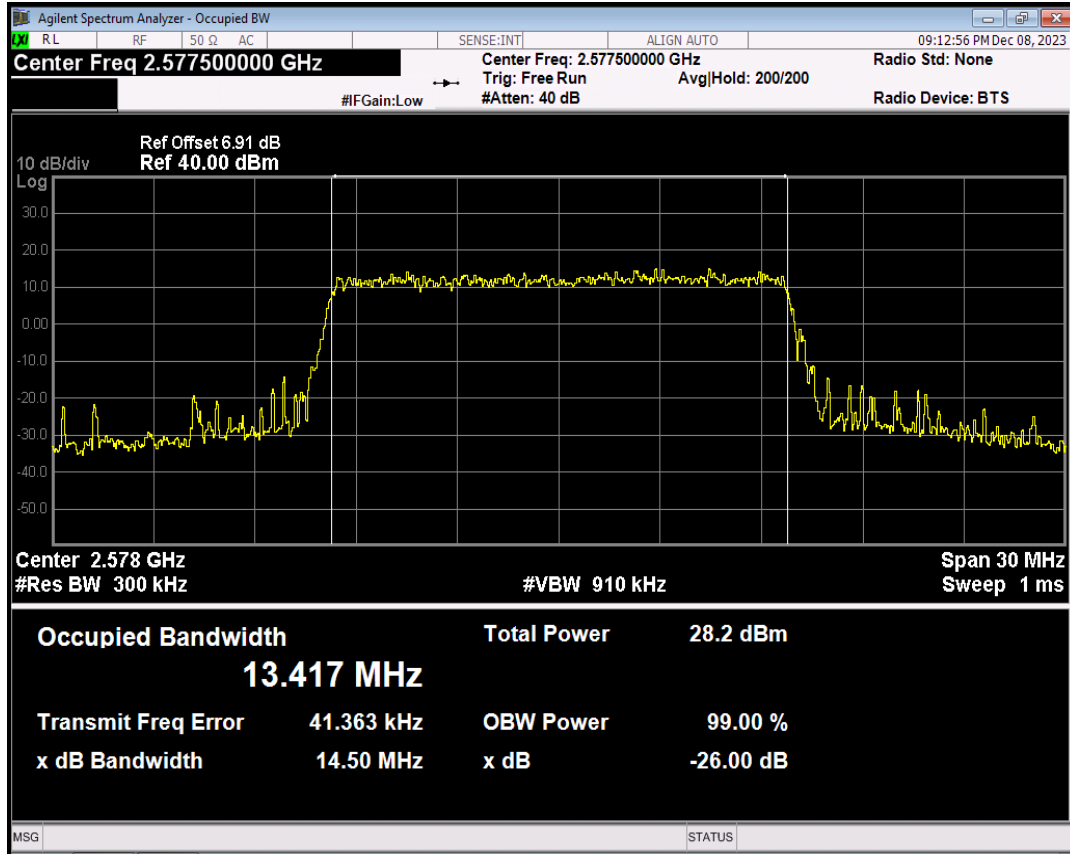
Band38 QPSK BW=10MHz Channel=38200 RB Size=50 Position=#0



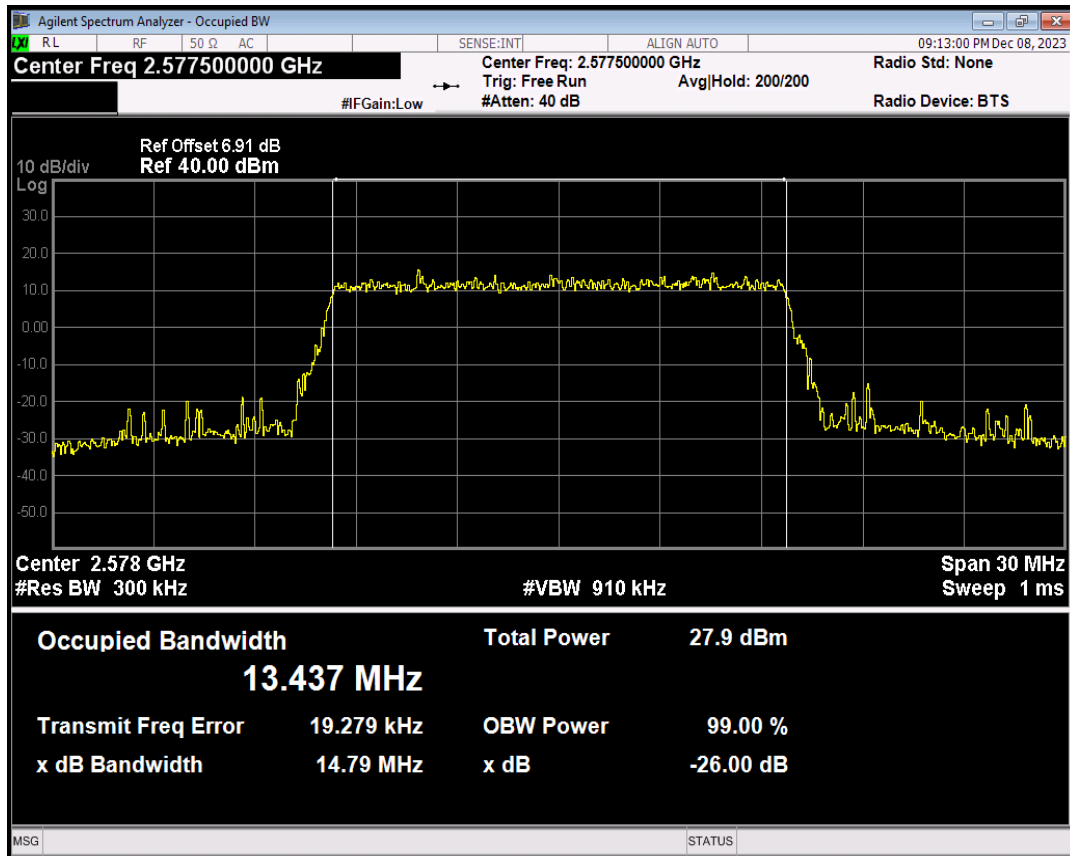
Band38 16QAM BW=10MHz Channel=38200 RB Size=50 Position=#0



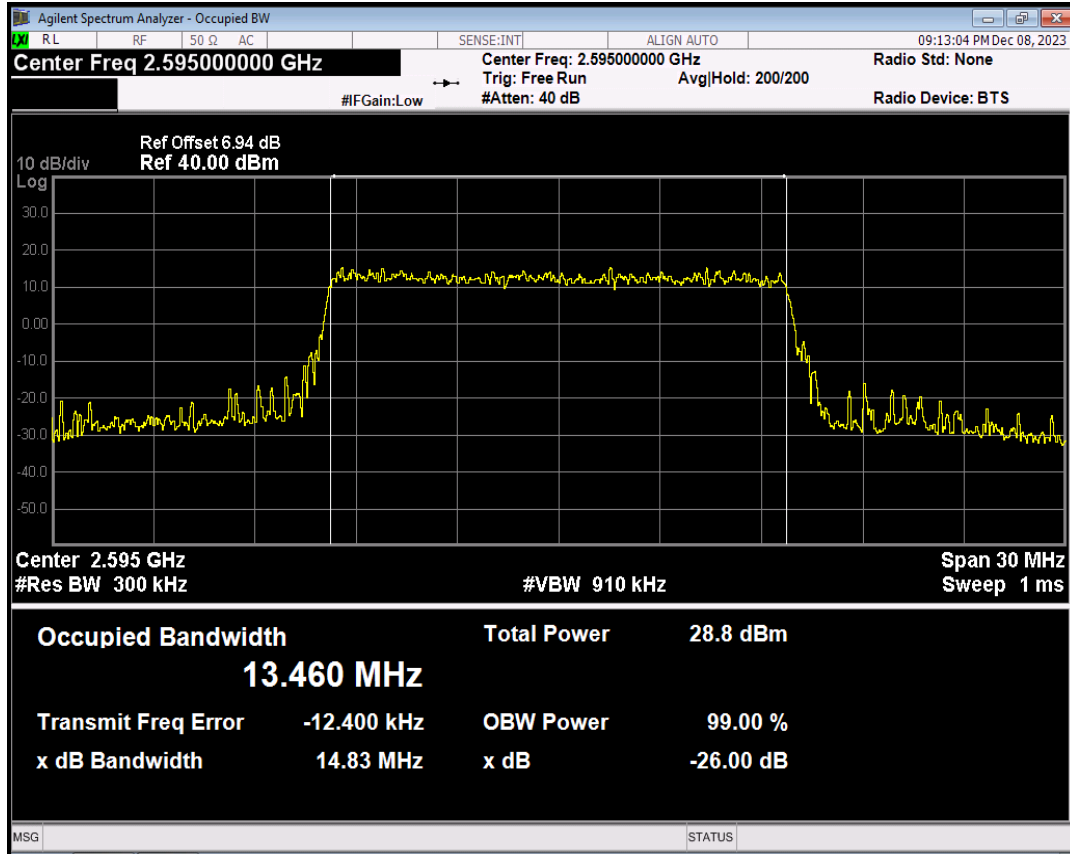
Band38 QPSK BW=15MHz Channel=37825 RB Size=75 Position=#0



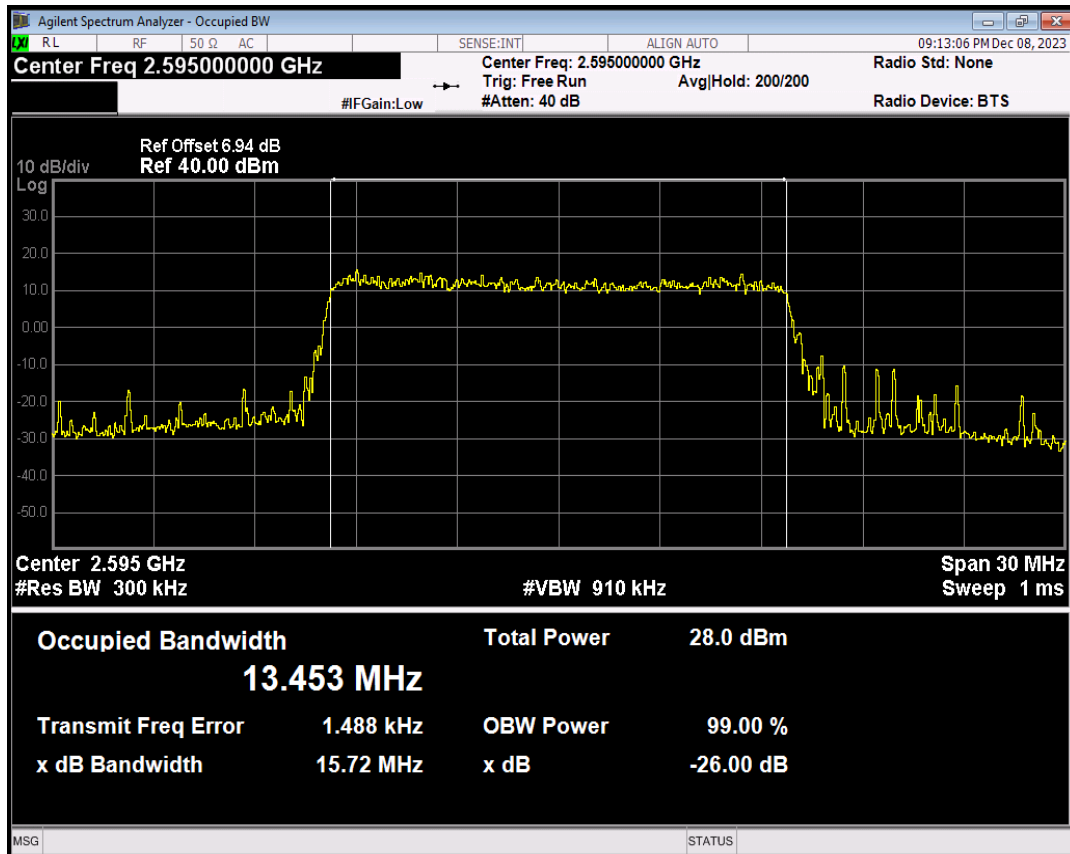
Band38 16QAM BW=15MHz Channel=37825 RB Size=75 Position=#0



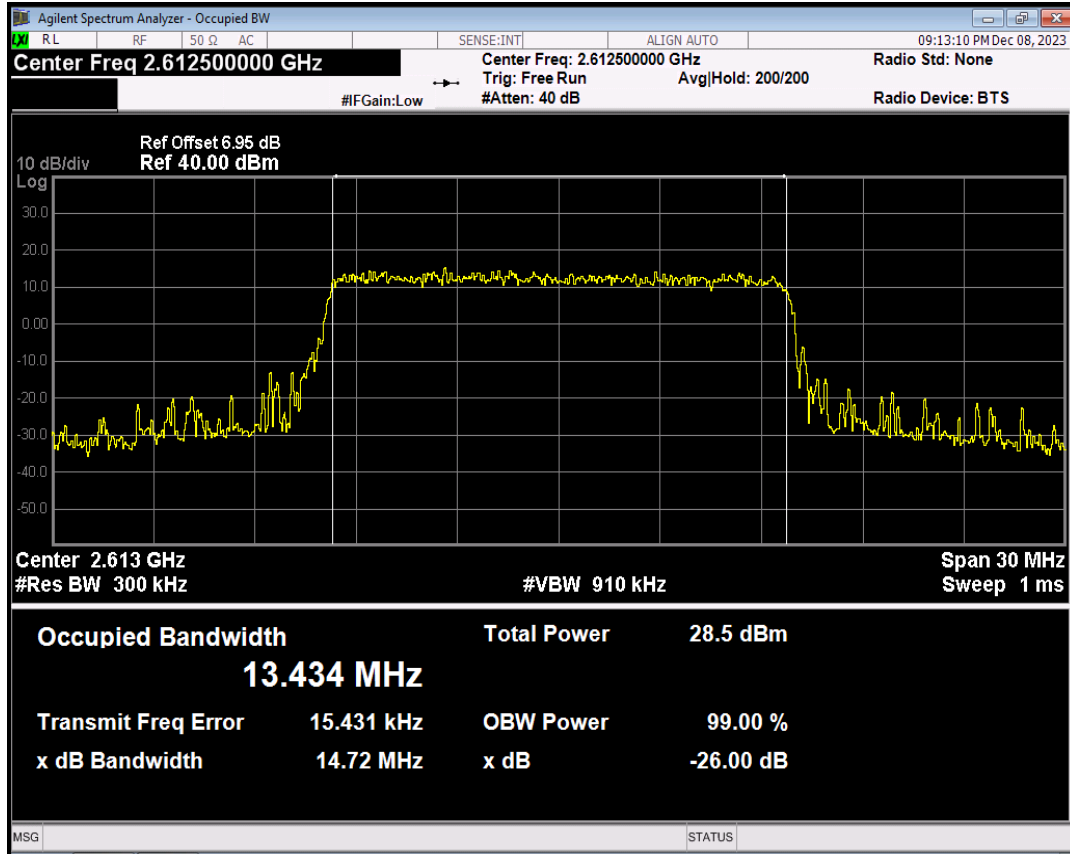
Band38 QPSK BW=15MHz Channel=38000 RB Size=75 Position=#0



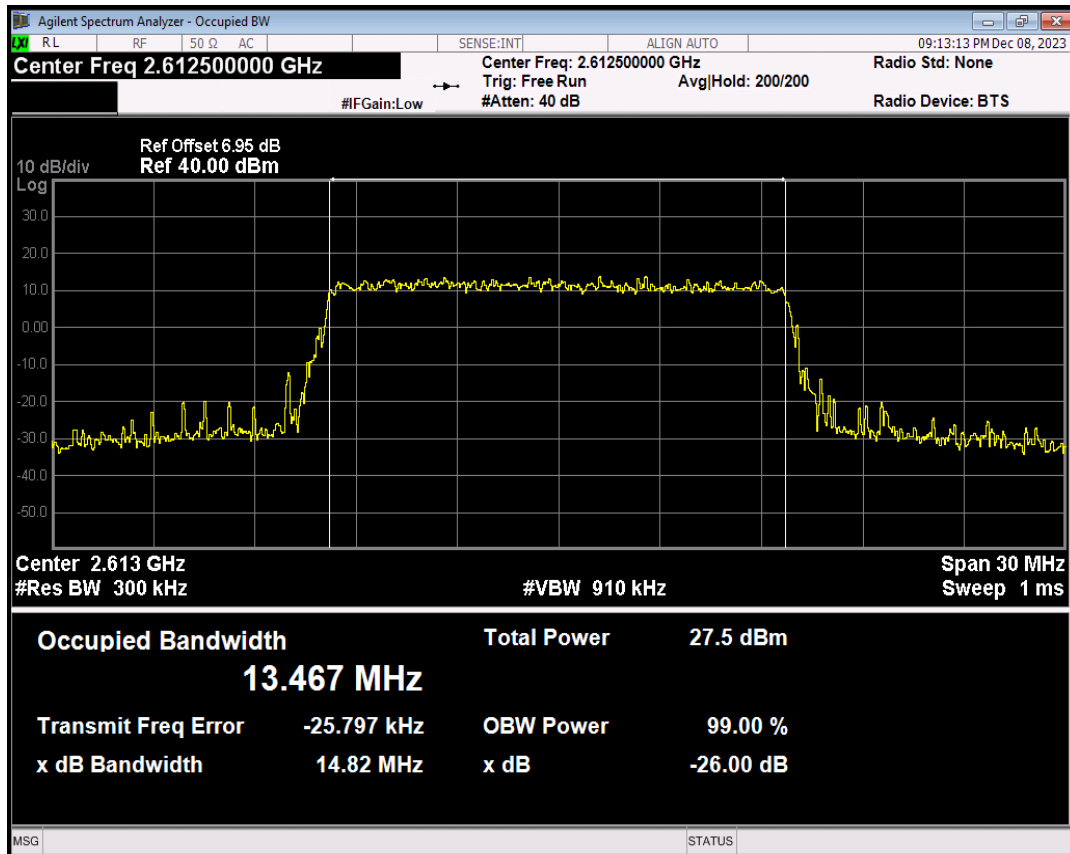
Band38 16QAM BW=15MHz Channel=38000 RB Size=75 Position=#0



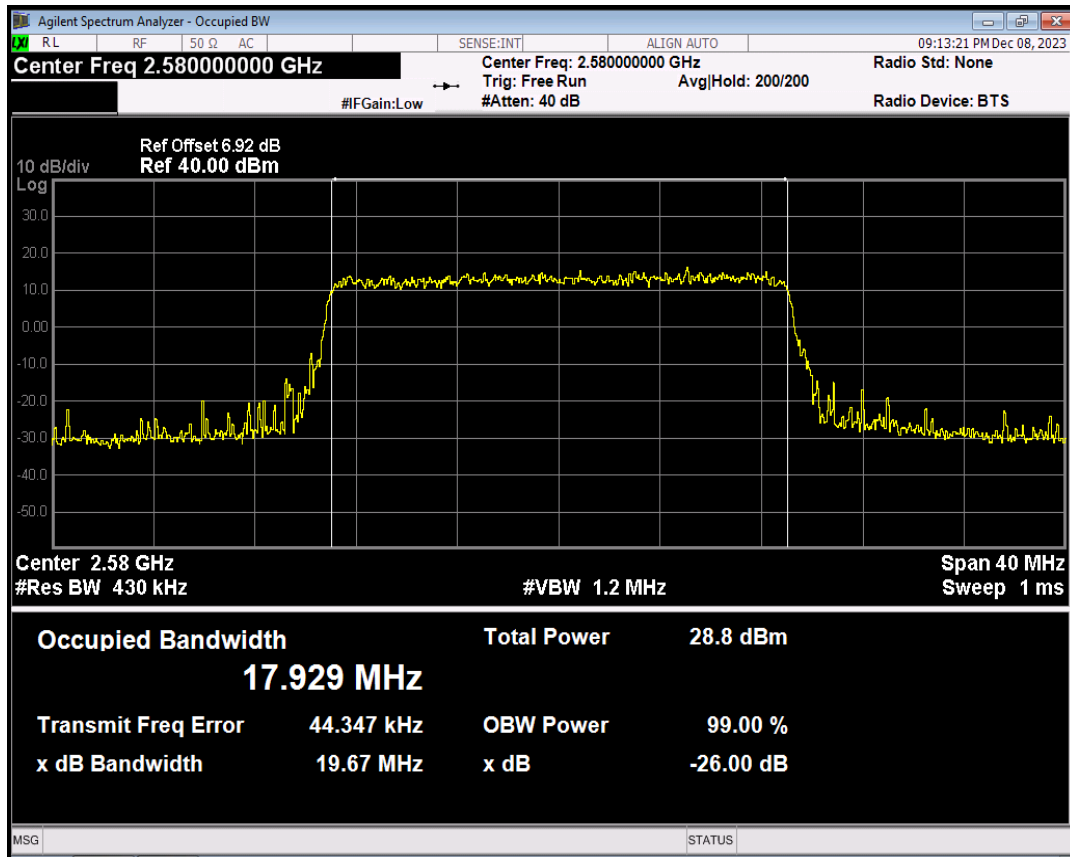
Band38 QPSK BW=15MHz Channel=38175 RB Size=75 Position=#0



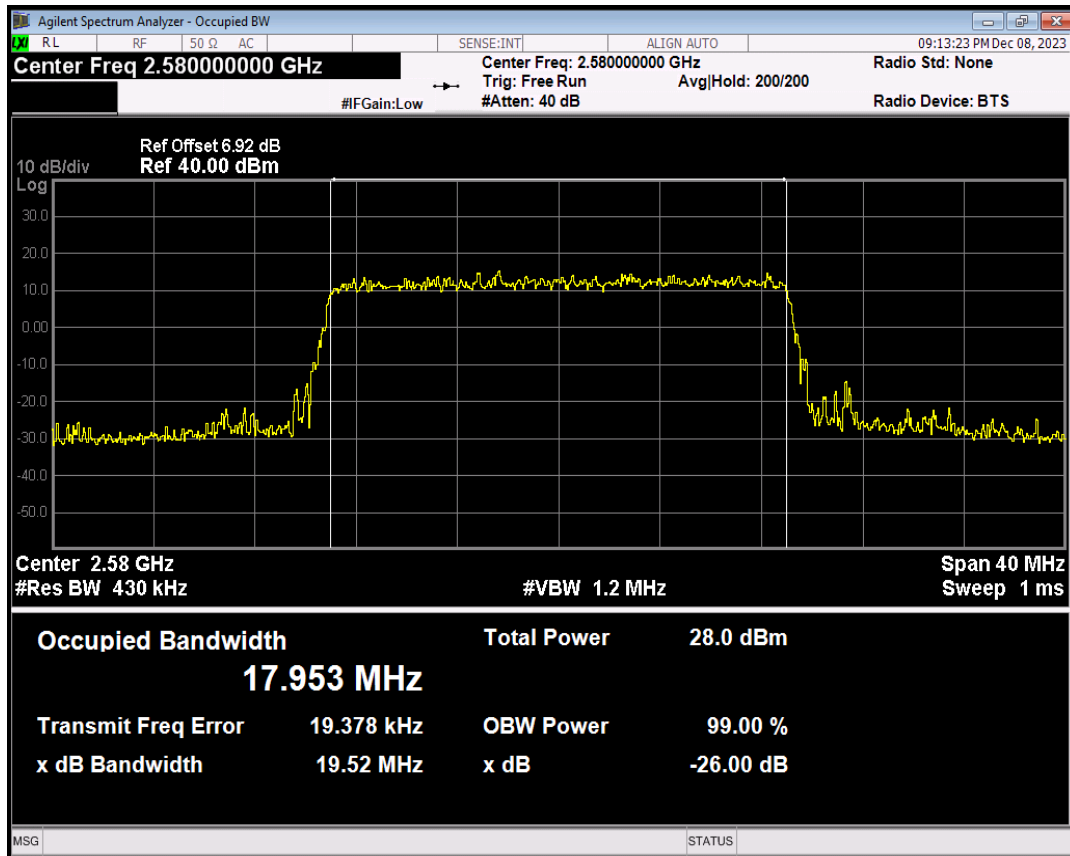
Band38 16QAM BW=15MHz Channel=38175 RB Size=75 Position=#0



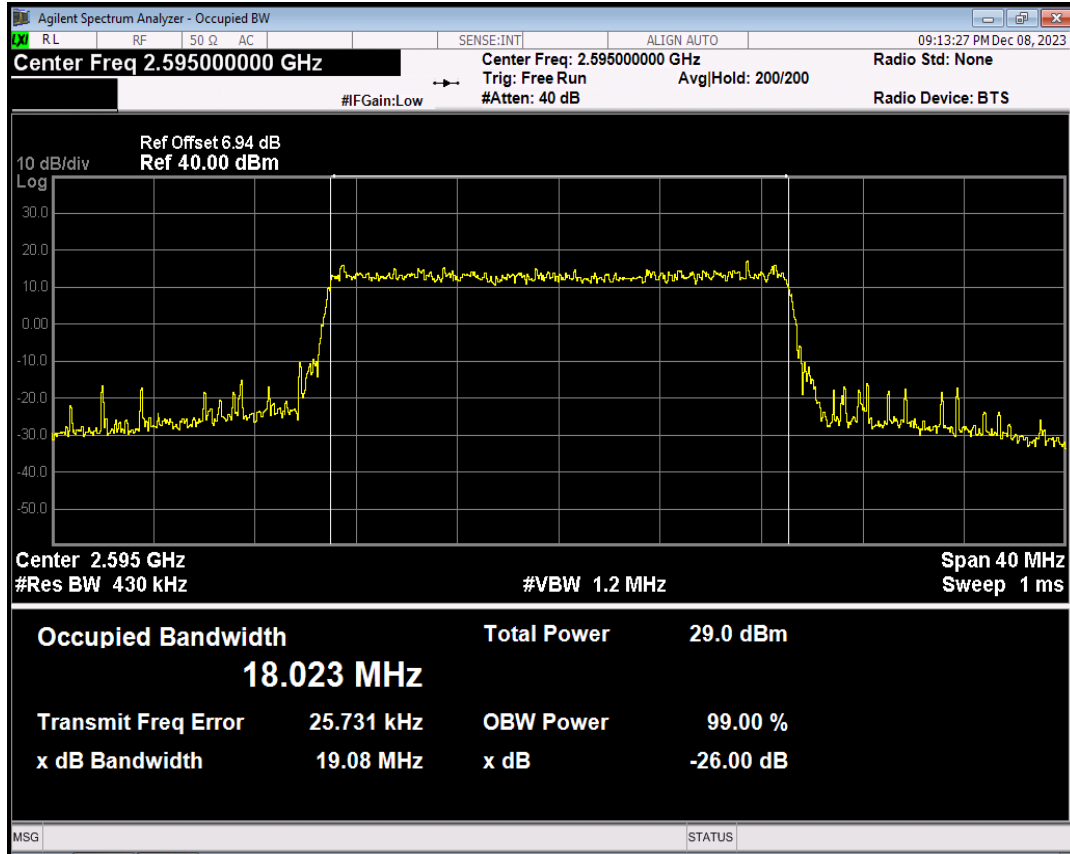
Band38 QPSK BW=20MHz Channel=37850 RB Size=100 Position=#0



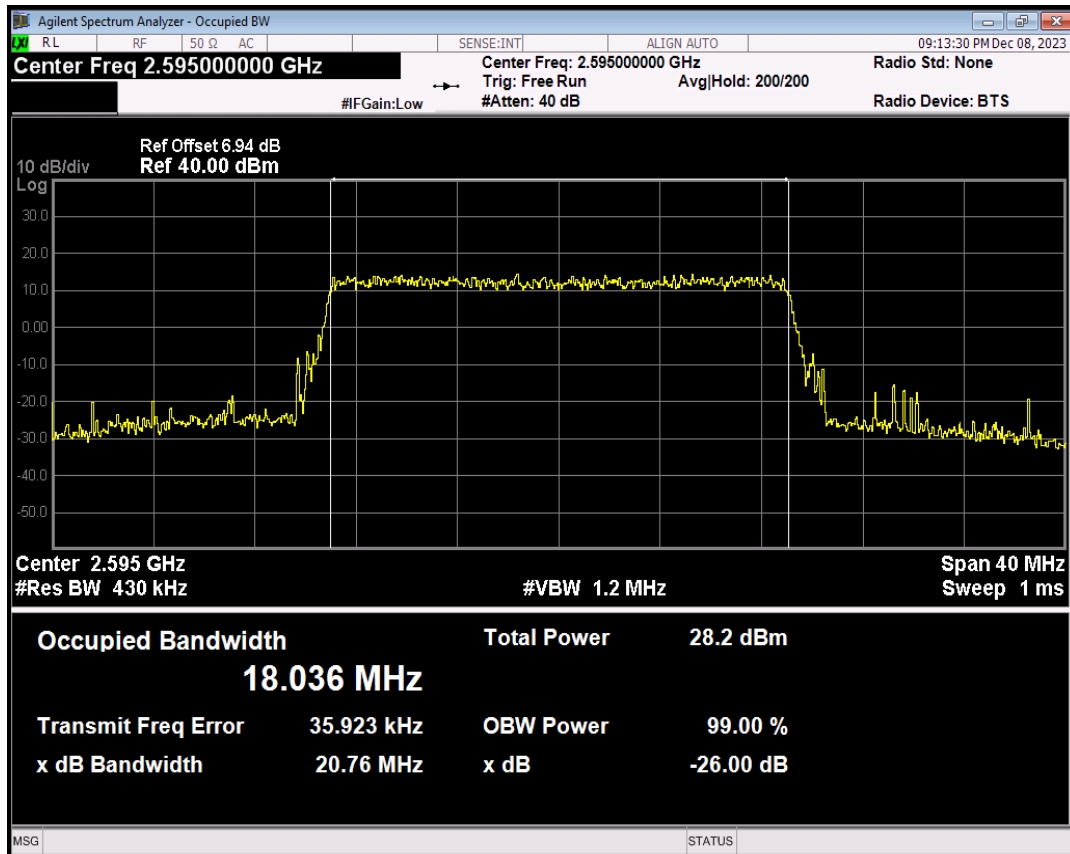
Band38 16QAM BW=20MHz Channel=37850 RB Size=100 Position=#0



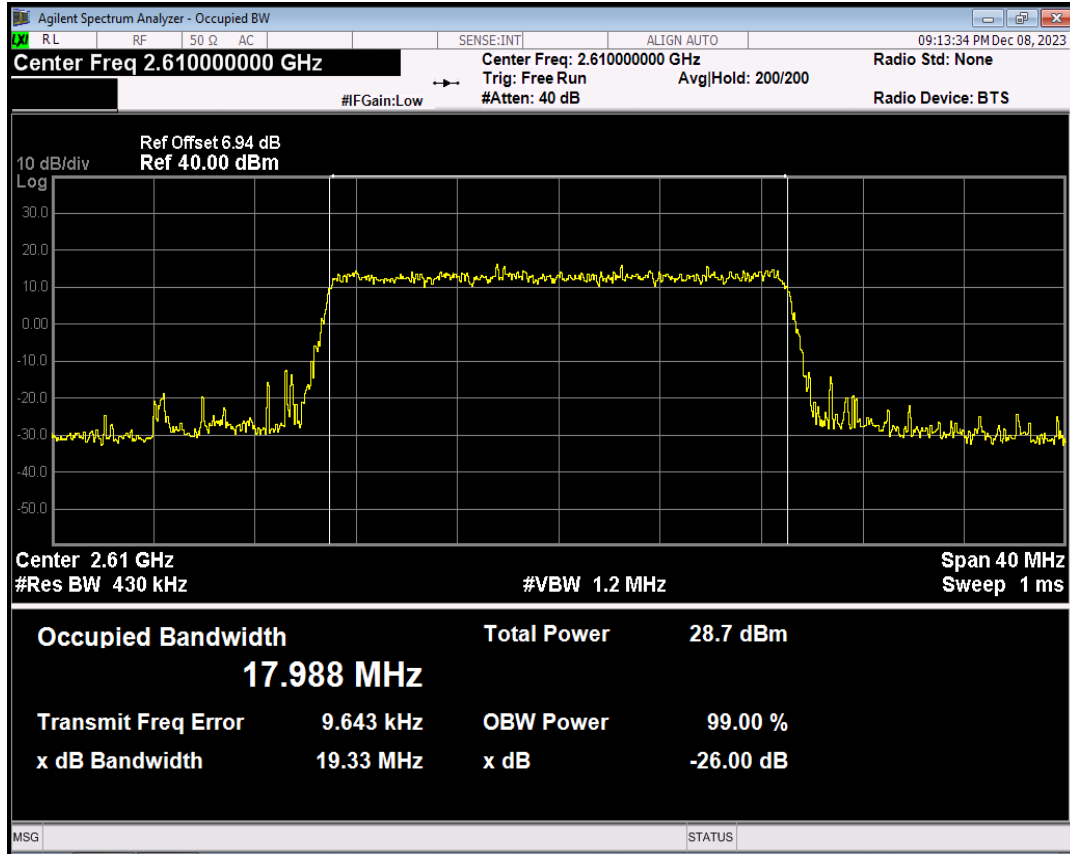
Band38 QPSK BW=20MHz Channel=38000 RB Size=100 Position=#0



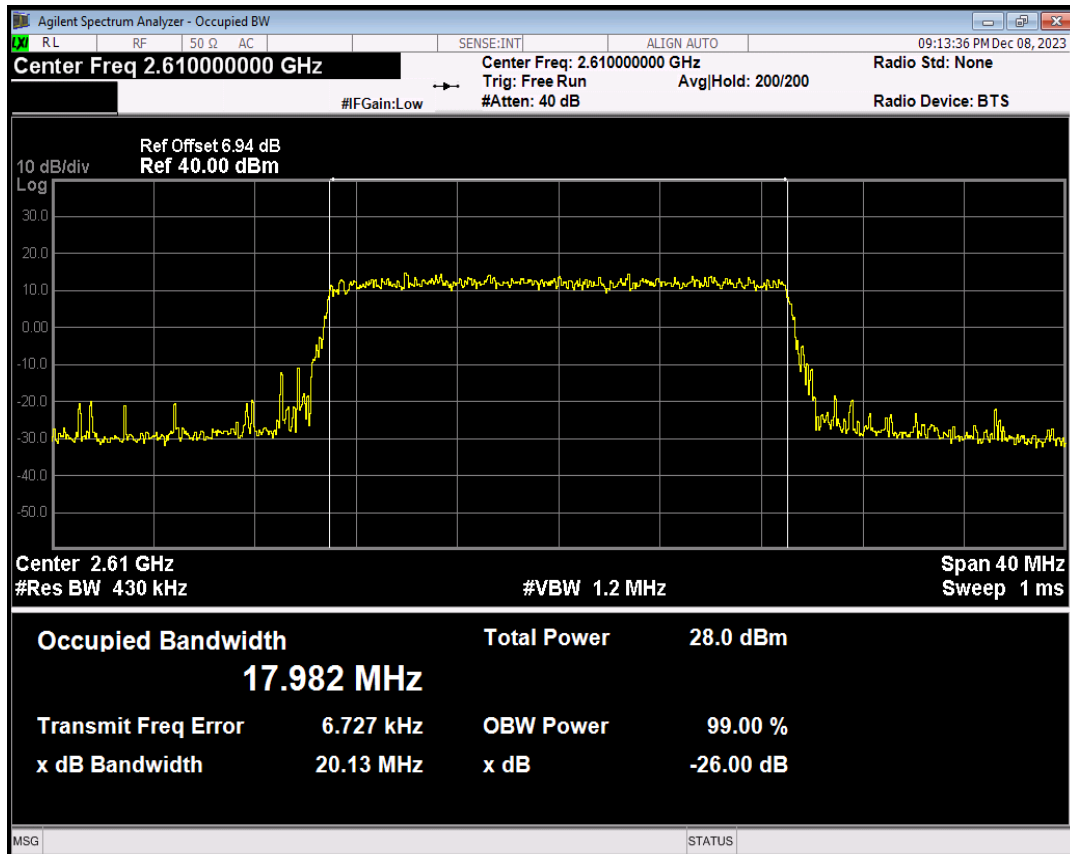
Band38 16QAM BW=20MHz Channel=38000 RB Size=100 Position=#0



Band38 QPSK BW=20MHz Channel=38150 RB Size=100 Position=#0



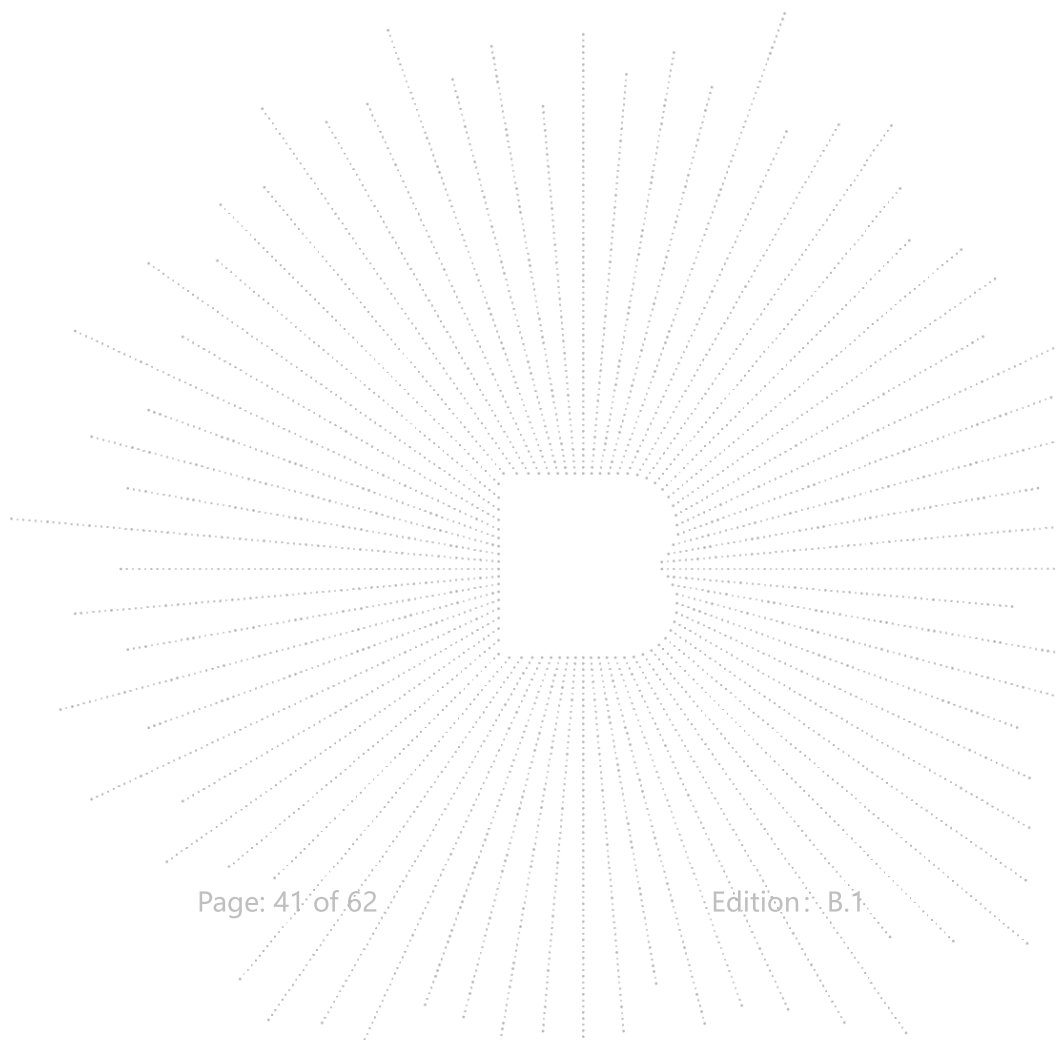
Band38 16QAM BW=20MHz Channel=38150 RB Size=100 Position=#0



Appendix 5. Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band38	5	37775	25	#0	QPSK	2568.98	-17.17	-10	PASS
Band38	5	37775	25	#0	16QAM	2568.95	-17.54	-10	PASS
Band38	5	38225	25	#0	QPSK	2621.12	-17.53	-10	PASS
Band38	5	38225	25	#0	16QAM	2626.25	-33.30	-25	PASS
Band38	10	37800	50	#0	QPSK	2559.60	-34.99	-25	PASS
Band38	10	37800	50	#0	16QAM	2558.96	-36.55	-25	PASS
Band38	10	38200	50	#0	QPSK	2631.15	-36.71	-25	PASS
Band38	10	38200	50	#0	16QAM	2630.32	-37.93	-25	PASS
Band38	15	37825	75	#0	QPSK	2552.72	-37.38	-25	PASS
Band38	15	37825	75	#0	16QAM	2552.36	-37.30	-25	PASS
Band38	15	38175	75	#0	QPSK	2636.96	-38.37	-25	PASS
Band38	15	38175	75	#0	16QAM	2636.43	-36.98	-25	PASS
Band38	20	37850	100	#0	QPSK	2545.50	-37.39	-25	PASS
Band38	20	37850	100	#0	16QAM	2549.67	-38.94	-25	PASS
Band38	20	38150	100	#0	QPSK	2642.85	-38.40	-25	PASS
Band38	20	38150	100	#0	16QAM	2641.53	-38.12	-25	PASS

Band38 QPSK BW=5MHz Channel=37775 RB Size=25 Position=#0





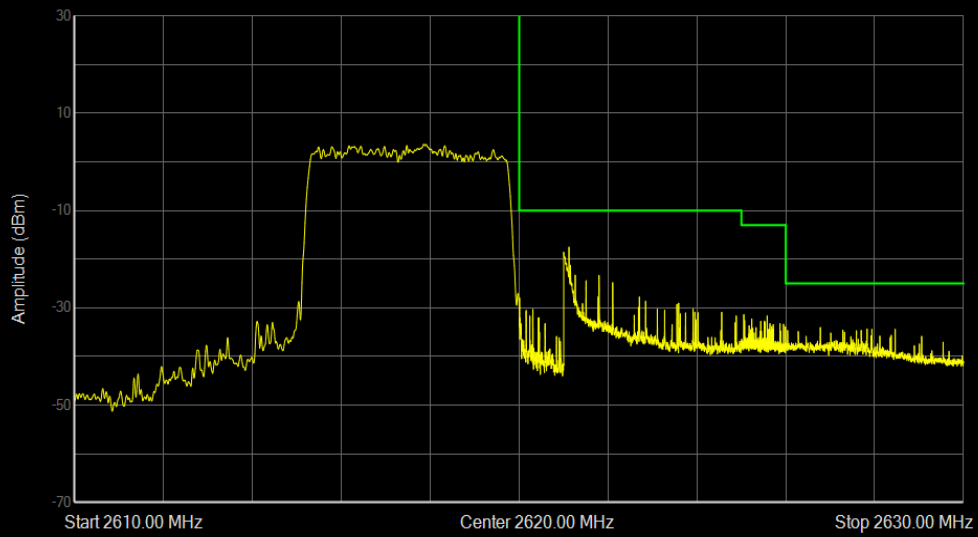
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2560	2564	1000	2563.456	-32.34	-25
2	2564	2565	1000	2564.943	-30.36	-13
3	2565	2569	1000	2568.984	-17.17	-10
4	2569	2570	100	2569.932	-27.07	-10

Band38 16QAM BW=5MHz Channel=37775 RB Size=25 Position=#0



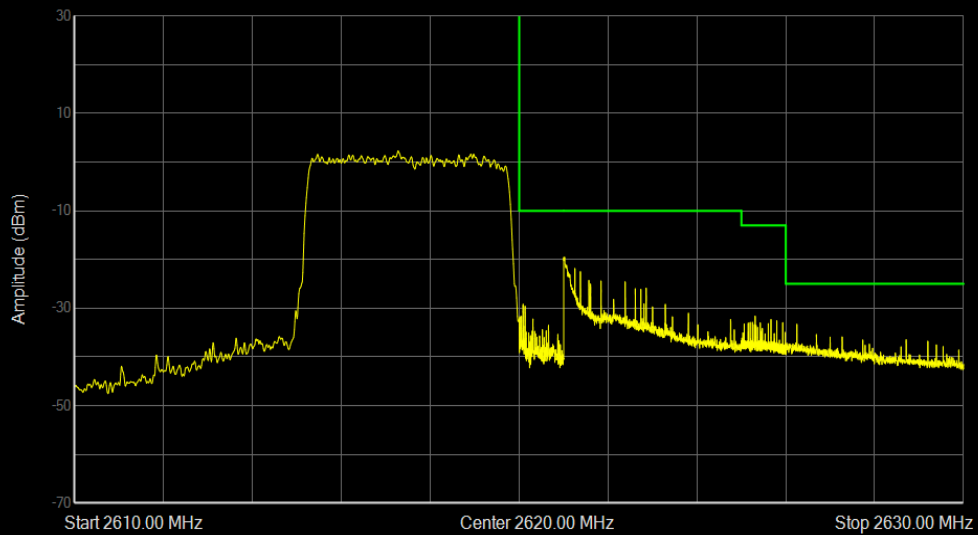
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2560	2564	1000	2563.76	-34.01	-25
2	2564	2565	1000	2564.879	-32.51	-13
3	2565	2569	1000	2568.948	-17.54	-10
4	2569	2570	100	2569.937	-28.94	-10

Band38 QPSK BW=5MHz Channel=38225 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2620	2621	100	2620.007	-27.98	-10
2	2621	2625	1000	2621.12	-17.53	-10
3	2625	2626	1000	2625.055	-31.39	-13
4	2626	2630	1000	2626.776	-34.04	-25

Band38 16QAM BW=5MHz Channel=38225 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2620	2621	100	2620.087	-29.18	-10
2	2621	2625	1000	2621.02	-19.56	-10
3	2625	2626	1000	2625.309	-31.62	-13
4	2626	2630	1000	2626.248	-33.3	-25

Band38 QPSK BW=10MHz Channel=37800 RB Size=50 Position=#0



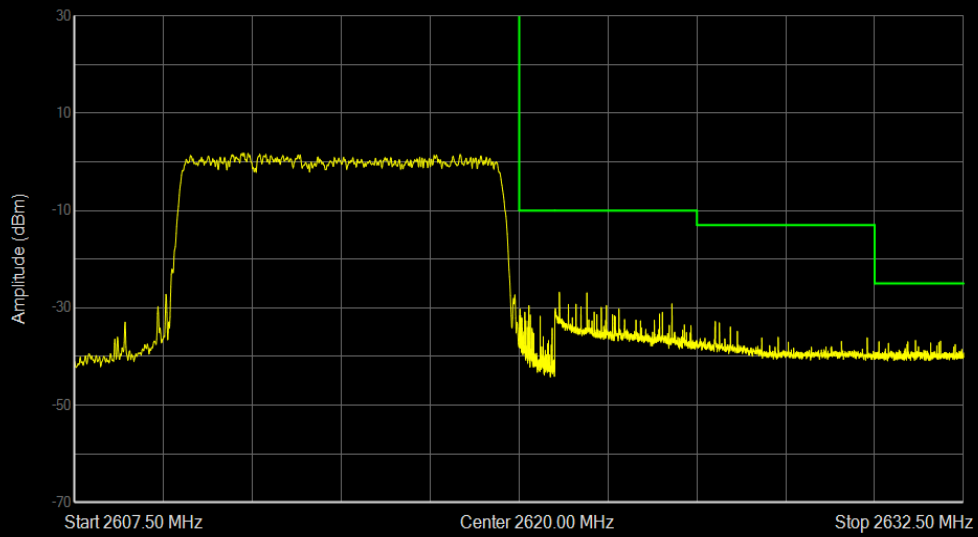
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2557.5	2560	1000	2559.595	-34.99	-25
2	2560	2565	1000	2564.095	-33.21	-13
3	2565	2569	1000	2568.556	-27.63	-10
4	2569	2570	200	2569.977	-28.79	-10

Band38 16QAM BW=10MHz Channel=37800 RB Size=50 Position=#0



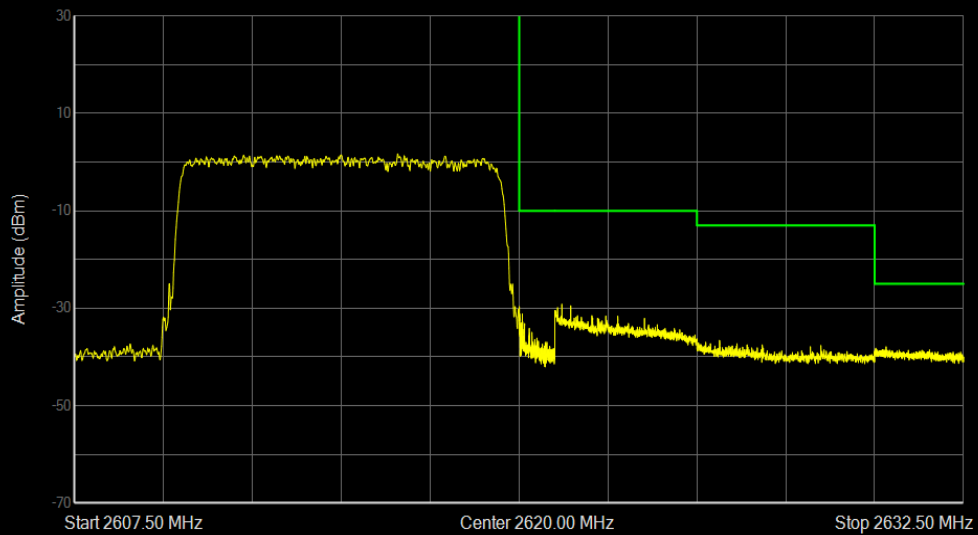
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2557.5	2560	1000	2558.96	-36.55	-25
2	2560	2565	1000	2564.705	-34.97	-13
3	2565	2569	1000	2568.688	-29.2	-10
4	2569	2570	200	2569.996	-31.36	-10

Band38 QPSK BW=10MHz Channel=38200 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2620	2621	200	2620.271	-29.55	-10
2	2621	2625	1000	2621.128	-26.8	-10
3	2625	2630	1000	2625.515	-32.81	-13
4	2630	2632.5	1000	2631.1475	-36.71	-25

Band38 16QAM BW=10MHz Channel=38200 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2620	2621	200	2620.001	-29.67	-10
2	2621	2625	1000	2621.2	-29.19	-10
3	2625	2630	1000	2625.635	-36.61	-13
4	2630	2632.5	1000	2630.32	-37.93	-25

Band38 QPSK BW=15MHz Channel=37825 RB Size=75 Position=#0



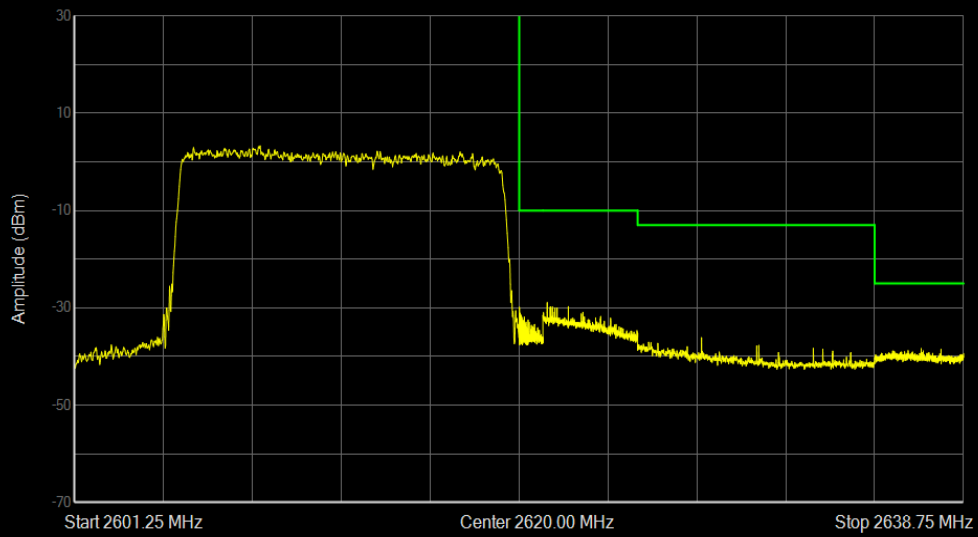
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2551.25	2555	1000	2552.72	-37.38	-25
2	2555	2565	1000	2558	-36.16	-13
3	2565	2569	1000	2568.456	-27.81	-10
4	2569	2570	300	2569.949	-29.89	-10

Band38 16QAM BW=15MHz Channel=37825 RB Size=75 Position=#0



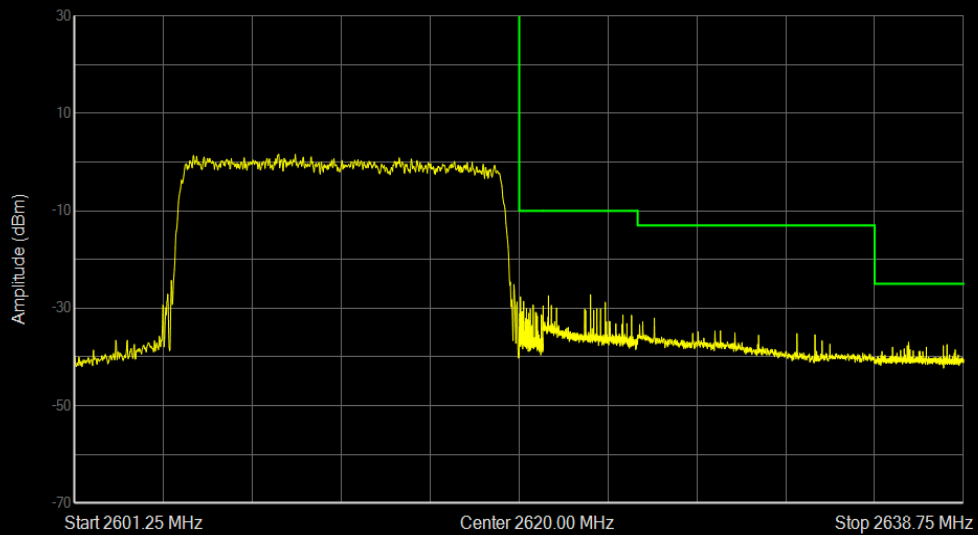
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2551.25	2555	1000	2552.36375	-37.3	-25
2	2555	2565	1000	2564.54	-34.46	-13
3	2565	2569	1000	2568.88	-26.37	-10
4	2569	2570	300	2569.755	-32.15	-10

Band38 QPSK BW=15MHz Channel=38175 RB Size=75 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2620	2621	300	2620.007	-29.87	-10
2	2621	2625	1000	2621.18	-28.91	-10
3	2625	2635	1000	2627.69	-36.12	-13
4	2635	2638.75	1000	2636.96125	-38.37	-25

Band38 16QAM BW=15MHz Channel=38175 RB Size=75 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2620	2621	300	2620.055	-27.67	-10
2	2621	2625	1000	2623.008	-27.24	-10
3	2625	2635	1000	2625.7	-32.03	-13
4	2635	2638.75	1000	2636.42875	-36.98	-25

Band38 QPSK BW=20MHz Channel=37850 RB Size=100 Position=#0



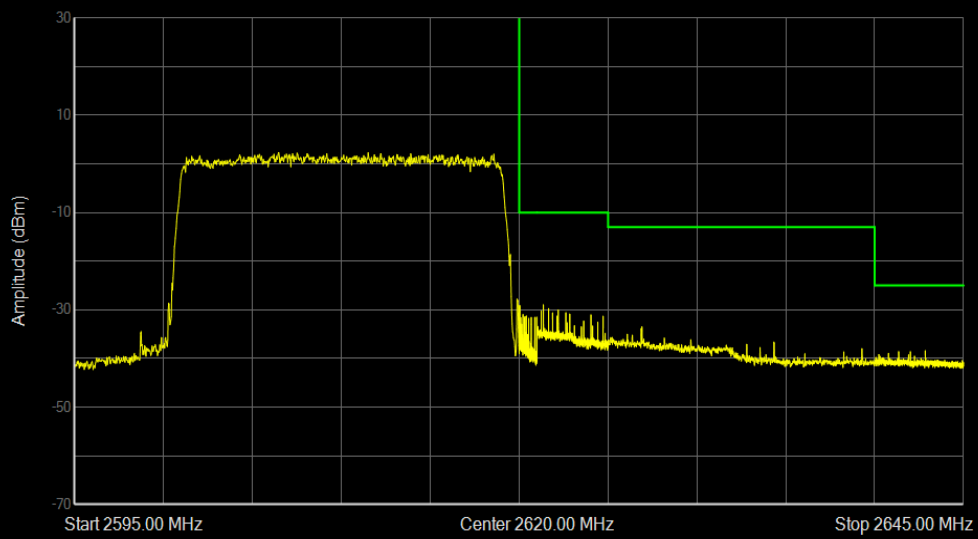
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2545	2550	1000	2545.5	-37.39	-25
2	2550	2565	1000	2564.685	-33.72	-13
3	2565	2569	1000	2568.968	-31.07	-10
4	2569	2570	430	2569.886	-31.63	-10

Band38 16QAM BW=20MHz Channel=37850 RB Size=100 Position=#0



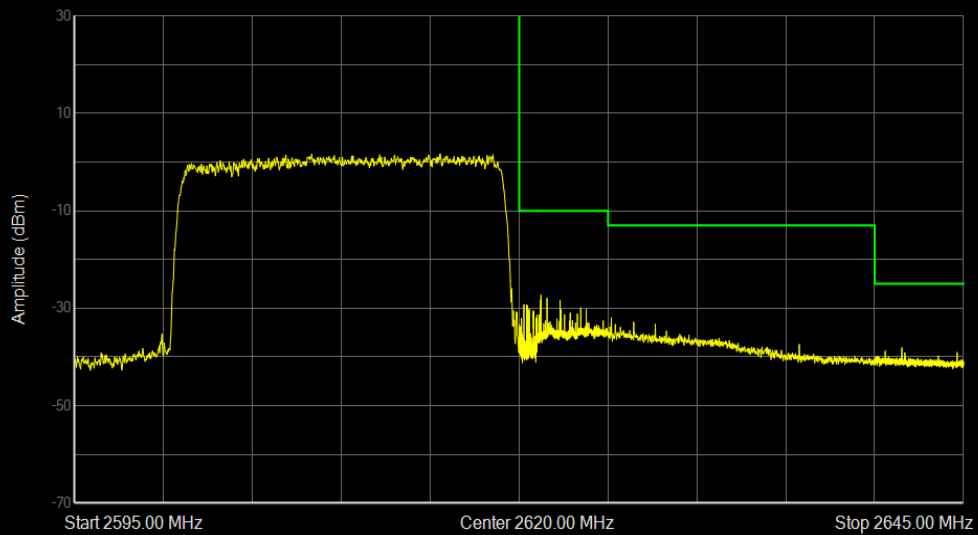
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2545	2550	1000	2549.67	-38.94	-25
2	2550	2565	1000	2563.38	-35.61	-13
3	2565	2569	1000	2568.732	-31.29	-10
4	2569	2570	430	2569.89	-33.17	-10

Band38 QPSK BW=20MHz Channel=38150 RB Size=100 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2620	2621	430	2620.025	-29.1	-10
2	2621	2625	1000	2621.356	-28.97	-10
3	2625	2640	1000	2626.905	-33.49	-13
4	2640	2645	1000	2642.845	-38.4	-25

Band38 16QAM BW=20MHz Channel=38150 RB Size=100 Position=#0

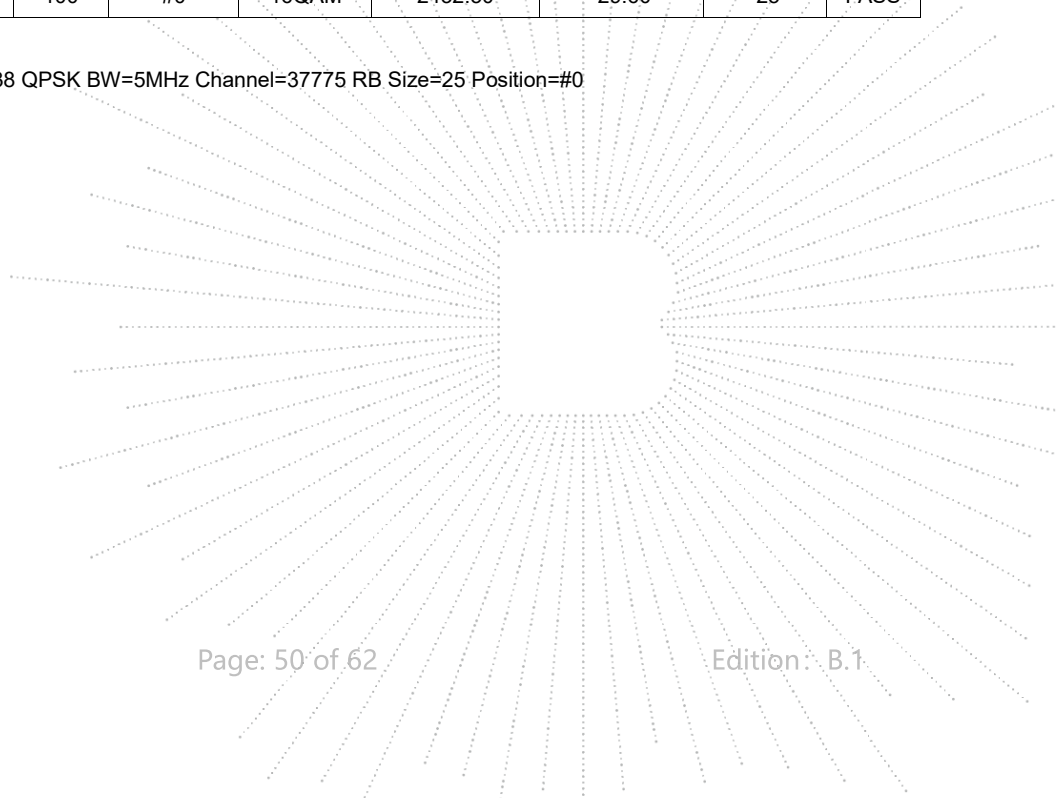


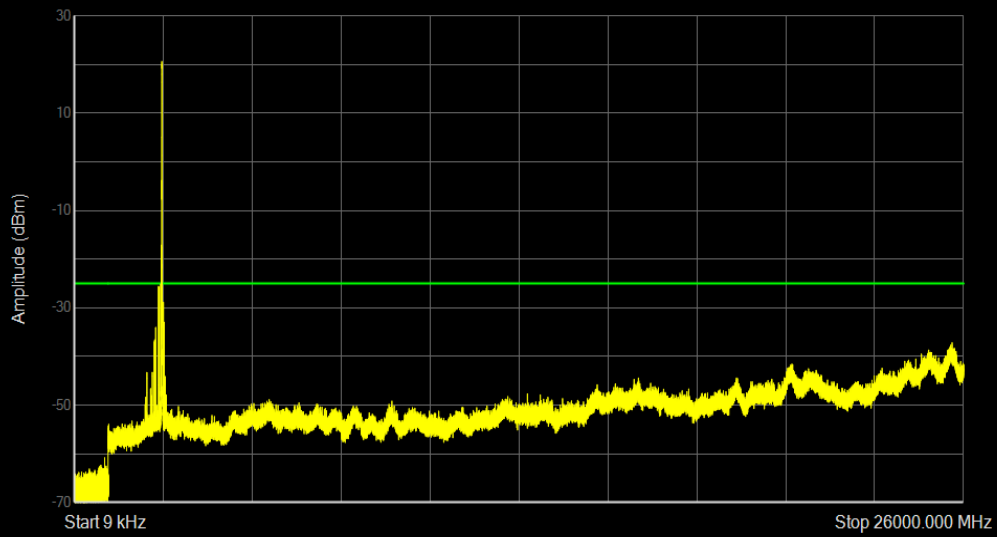
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2620	2621	430	2620.262	-29.26	-10
2	2621	2625	1000	2621.224	-27.31	-10
3	2625	2640	1000	2625.18	-31.96	-13
4	2640	2645	1000	2641.525	-38.12	-25

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
Band38	5	37775	25	#0	QPSK	2536.88	-25.16	-25	PASS
Band38	5	37775	25	#0	16QAM	2465.63	-29.78	-25	PASS
Band38	5	38000	25	#0	QPSK	2397.50	-34.34	-25	PASS
Band38	5	38000	25	#0	16QAM	2532.50	-28.37	-25	PASS
Band38	5	38225	25	#0	QPSK	2525.00	-27.92	-25	PASS
Band38	5	38225	25	#0	16QAM	2490.00	-31.03	-25	PASS
Band38	10	37800	50	#0	QPSK	2506.25	-27.43	-25	PASS
Band38	10	37800	50	#0	16QAM	2495.63	-30.45	-25	PASS
Band38	10	38000	50	#0	QPSK	2449.38	-35.72	-25	PASS
Band38	10	38000	50	#0	16QAM	2460.63	-28.90	-25	PASS
Band38	10	38200	50	#0	QPSK	2468.13	-28.54	-25	PASS
Band38	10	38200	50	#0	16QAM	2505.00	-29.28	-25	PASS
Band38	15	37825	75	#0	QPSK	2456.25	-30.5	-25	PASS
Band38	15	37825	75	#0	16QAM	25650.63	-37.08	-25	PASS
Band38	15	38000	75	#0	QPSK	2489.38	-29.97	-25	PASS
Band38	15	38000	75	#0	16QAM	2503.13	-33.13	-25	PASS
Band38	15	38175	75	#0	QPSK	2470.63	-34.21	-25	PASS
Band38	15	38175	75	#0	16QAM	2490.63	-27.64	-25	PASS
Band38	20	37850	100	#0	QPSK	25594.38	-37.10	-25	PASS
Band38	20	37850	100	#0	16QAM	2448.13	-27.58	-25	PASS
Band38	20	38000	100	#0	QPSK	25651.25	-36.81	-25	PASS
Band38	20	38000	100	#0	16QAM	2409.38	-29.8	-25	PASS
Band38	20	38150	100	#0	QPSK	2434.38	-31.43	-25	PASS
Band38	20	38150	100	#0	16QAM	2432.50	-29.60	-25	PASS

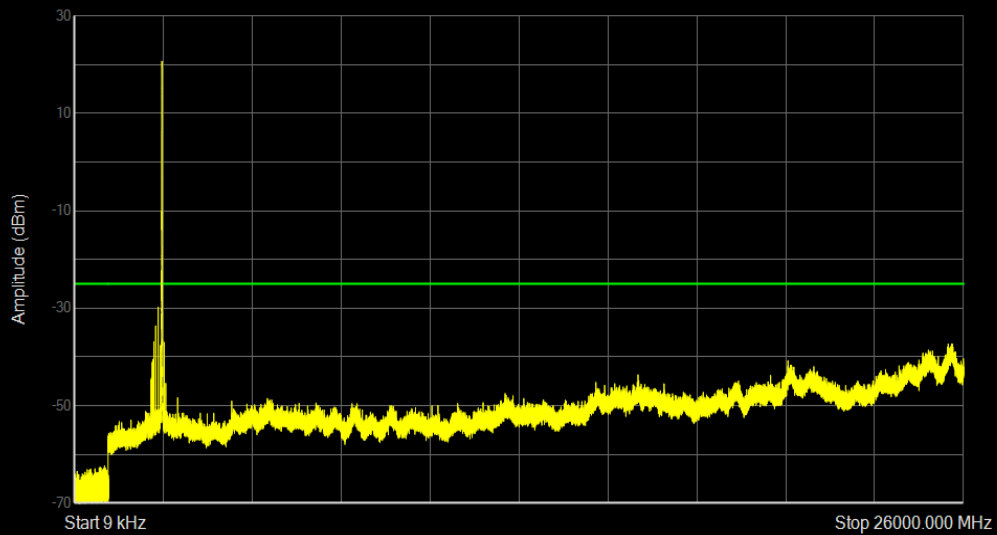
Band38 QPSK BW=5MHz Channel=37775 RB Size=25 Position=#0





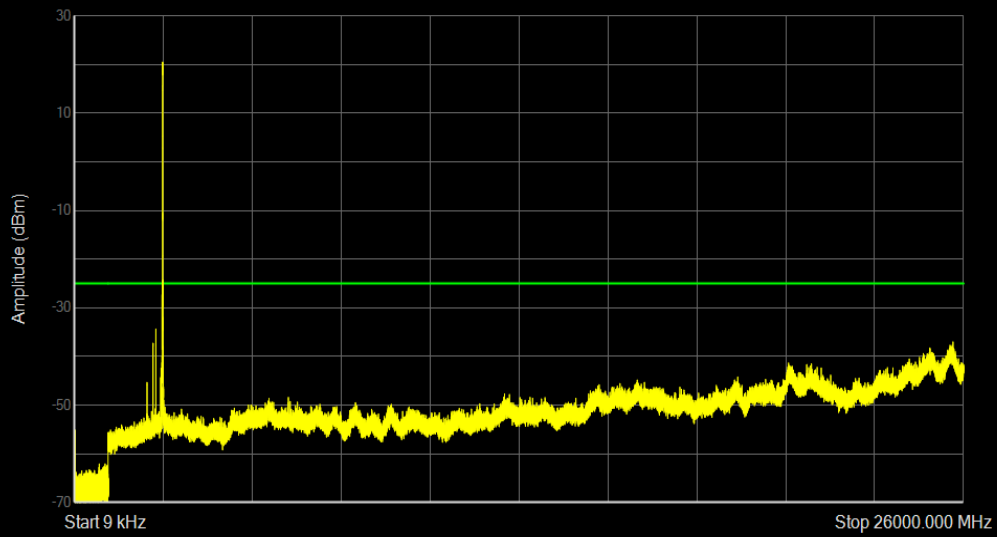
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01239105	-59.08	-25
2	0.15	30	10	0.1574625	-60.49	-25
3	30	1000	100	899.48375	-60.82	-25
4	1000	26000	1000	2536.875	-25.16	-25

Band38 16QAM BW=5MHz Channel=37775 RB Size=25 Position=#0



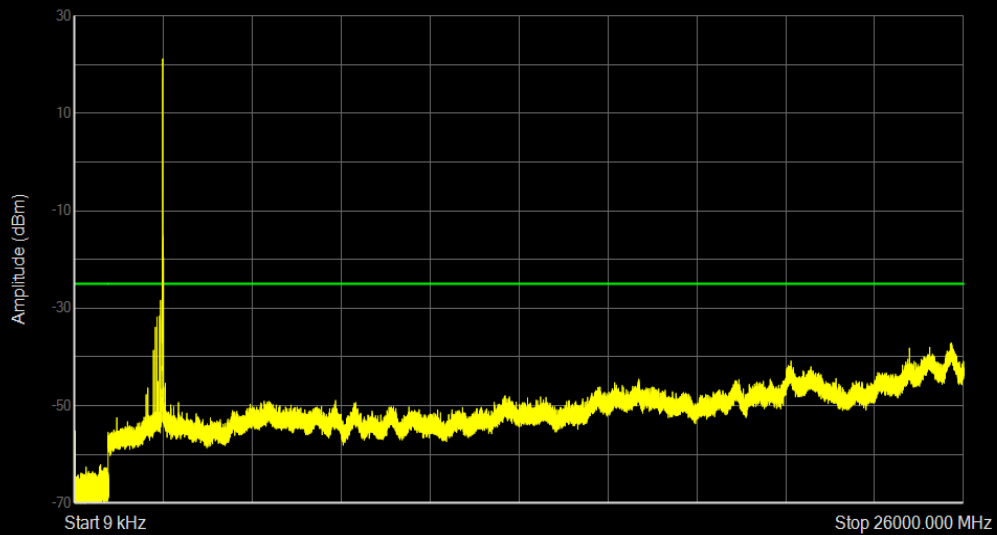
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-58.51	-25
2	0.15	30	10	0.15	-59.9	-25
3	30	1000	100	897.2285	-62.35	-25
4	1000	26000	1000	2465.625	-29.78	-25

Band38 QPSK BW=5MHz Channel=38000 RB Size=25 Position=#0



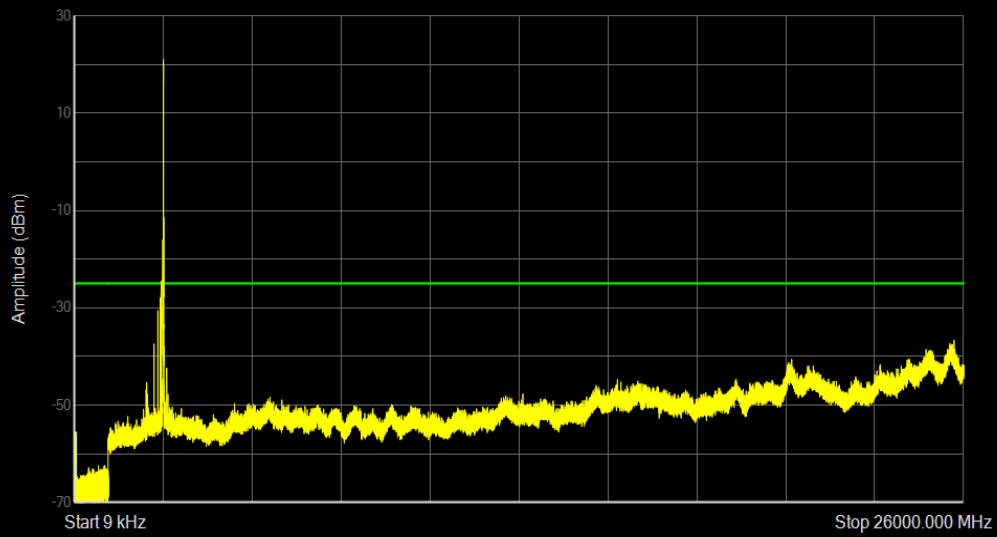
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010082175	-58.79	-25
2	0.15	30	10	0.15223875	-59.74	-25
3	30	1000	100	33.7345	-55.13	-25
4	1000	26000	1000	2397.5	-34.34	-25

Band38 16QAM BW=5MHz Channel=38000 RB Size=25 Position=#0



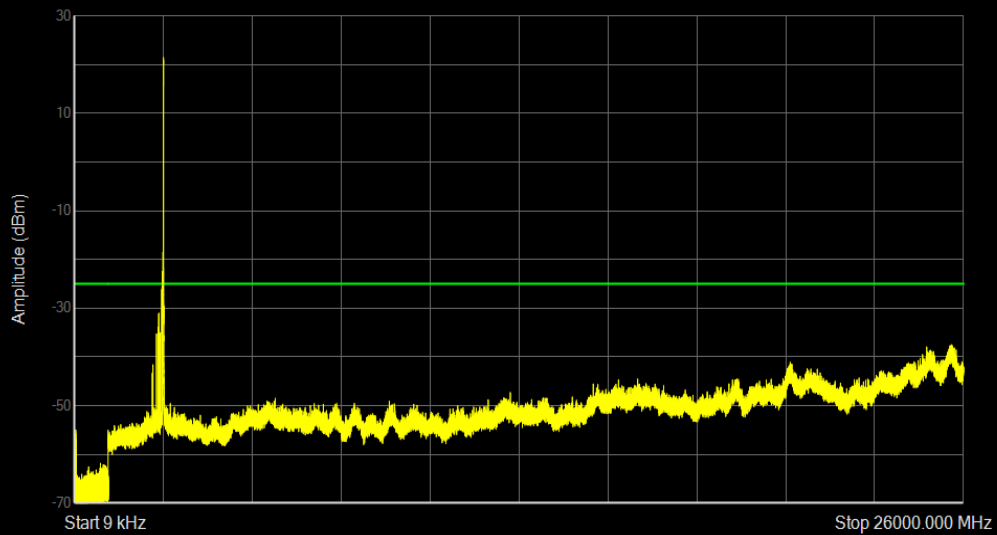
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-58.85	-25
2	0.15	30	10	0.15	-59.76	-25
3	30	1000	100	34.87425	-55.18	-25
4	1000	26000	1000	2532.5	-28.37	-25

Band38 QPSK BW=5MHz Channel=38225 RB Size=25 Position=#0



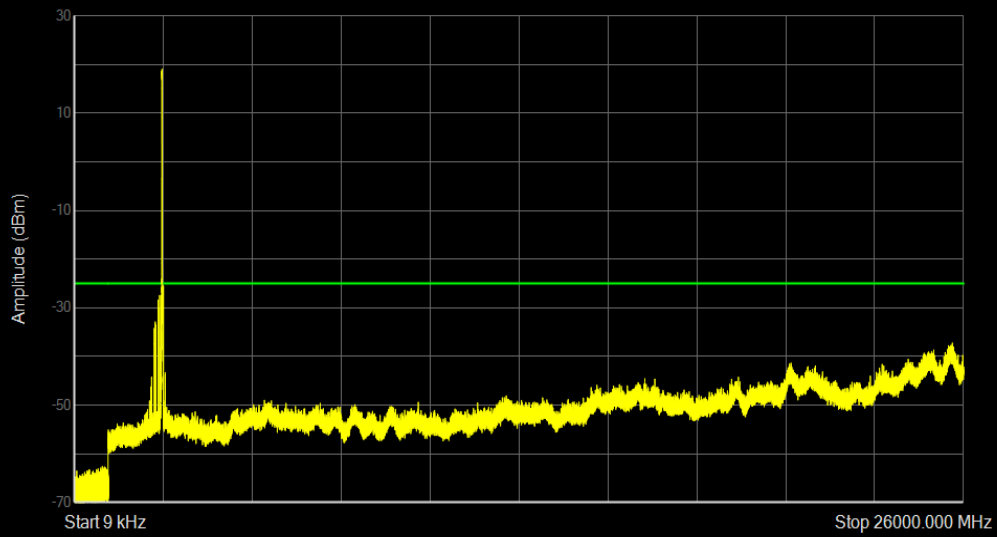
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00917625	-59.25	-25
2	0.15	30	10	0.15671625	-59.57	-25
3	30	1000	100	55.9475	-55.5	-25
4	1000	26000	1000	2525	-27.92	-25

Band38 16QAM BW=5MHz Channel=38225 RB Size=25 Position=#0



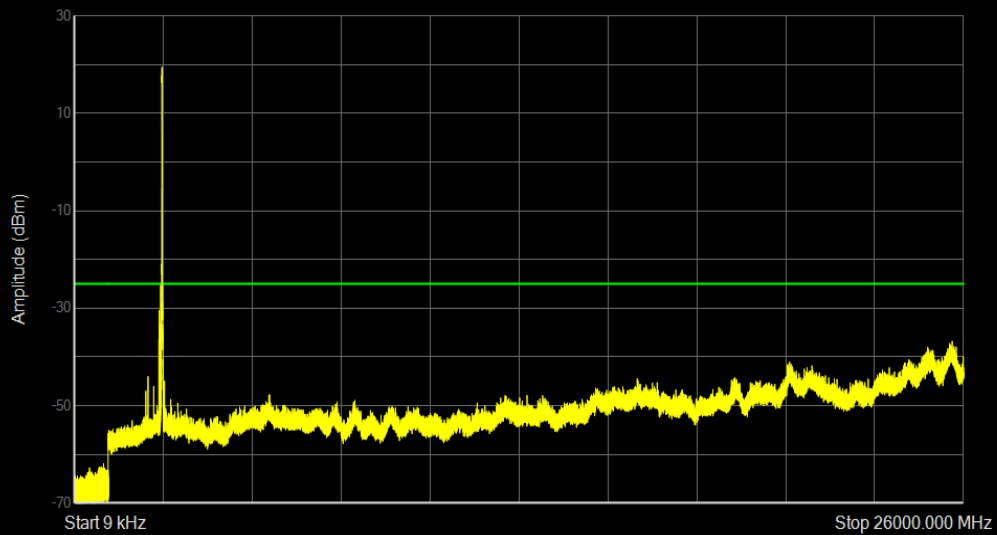
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009123375	-58.86	-25
2	0.15	30	10	0.164925	-59.26	-25
3	30	1000	100	55.511	-54.97	-25
4	1000	26000	1000	2490	-31.03	-25

Band38 QPSK BW=10MHz Channel=37800 RB Size=50 Position=#0



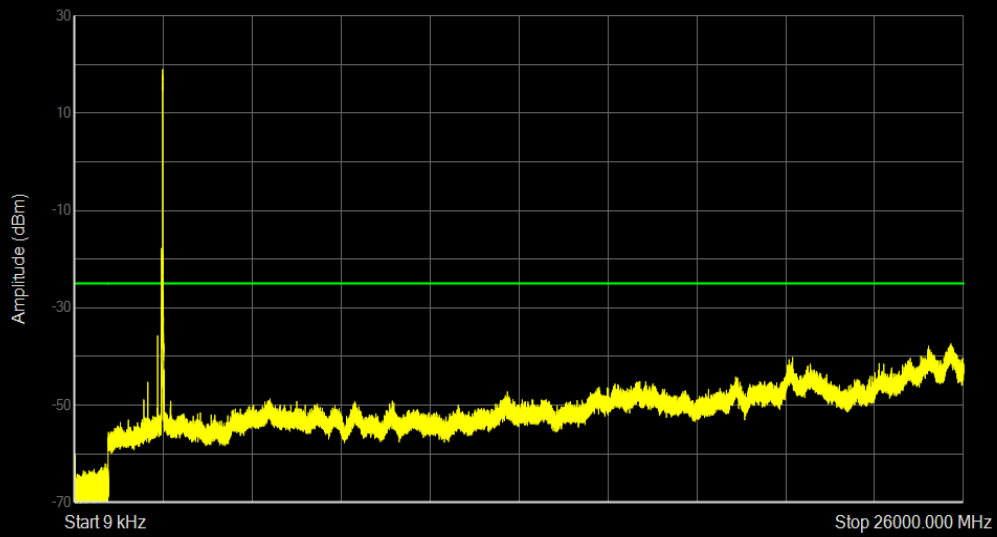
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0099447	-58.16	-25
2	0.15	30	10	0.15	-59.46	-25
3	30	1000	100	830.4925	-62.59	-25
4	1000	26000	1000	2506.25	-27.43	-25

Band38 16QAM BW=10MHz Channel=37800 RB Size=50 Position=#0



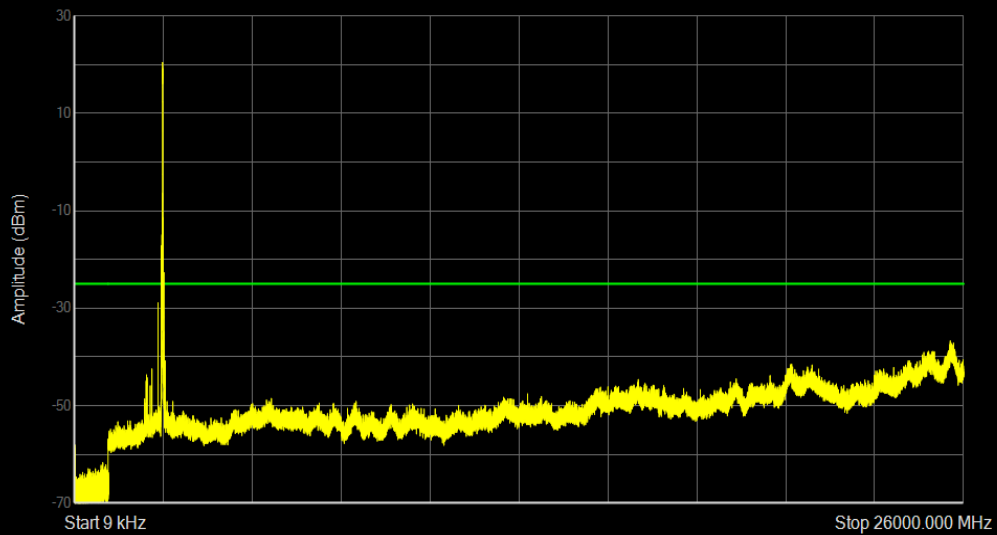
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00959925	-57.68	-25
2	0.15	30	10	0.1514925	-60.49	-25
3	30	1000	100	870.72325	-61.91	-25
4	1000	26000	1000	2495.625	-30.45	-25

Band38 QPSK BW=10MHz Channel=38000 RB Size=50 Position=#0



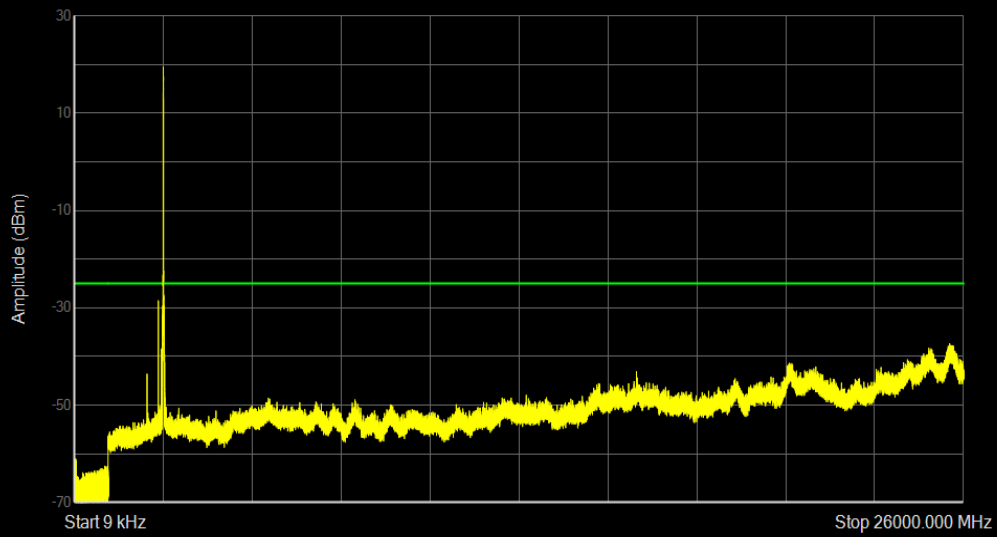
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010639125	-57.65	-25
2	0.15	30	10	0.15970125	-60.17	-25
3	30	1000	100	34.0255	-60.09	-25
4	1000	26000	1000	2449.375	-35.72	-25

Band38 16QAM BW=10MHz Channel=38000 RB Size=50 Position=#0



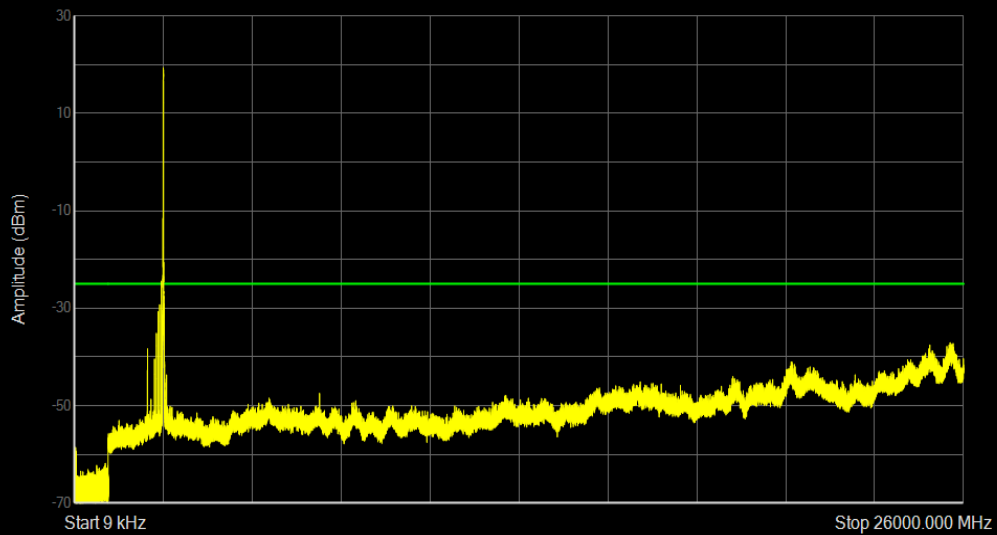
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0098178	-58.47	-25
2	0.15	30	10	0.152985	-59.78	-25
3	30	1000	100	31.552	-58.08	-25
4	1000	26000	1000	2460.625	-28.9	-25

Band38 QPSK BW=10MHz Channel=38200 RB Size=50 Position=#0



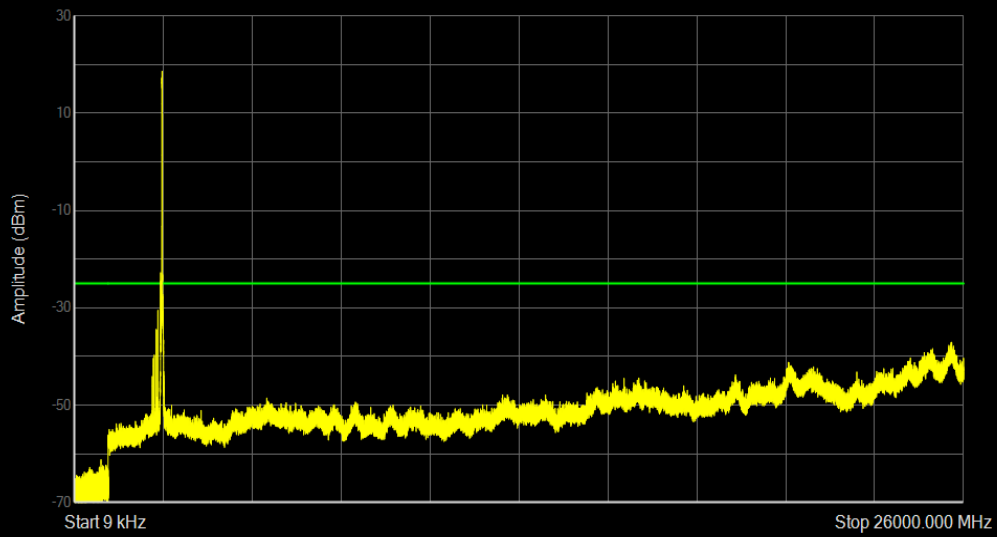
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-58.44	-25
2	0.15	30	10	0.15820875	-60.84	-25
3	30	1000	100	52.2615	-61.04	-25
4	1000	26000	1000	2468.125	-28.54	-25

Band38 16QAM BW=10MHz Channel=38200 RB Size=50 Position=#0



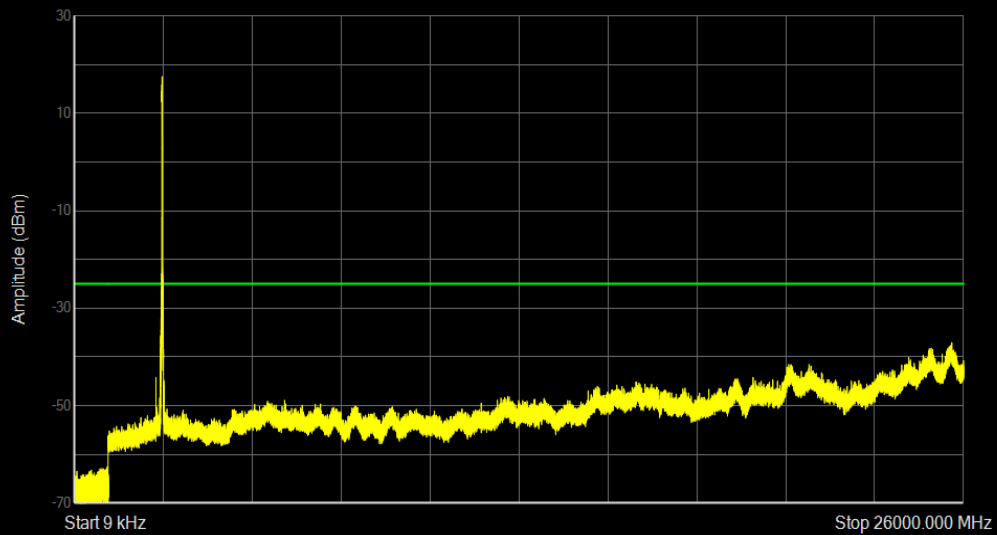
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009109275	-58.26	-25
2	0.15	30	10	0.15	-58.08	-25
3	30	1000	100	53.40125	-58.58	-25
4	1000	26000	1000	2505	-29.28	-25

Band38 QPSK BW=15MHz Channel=37825 RB Size=75 Position=#0



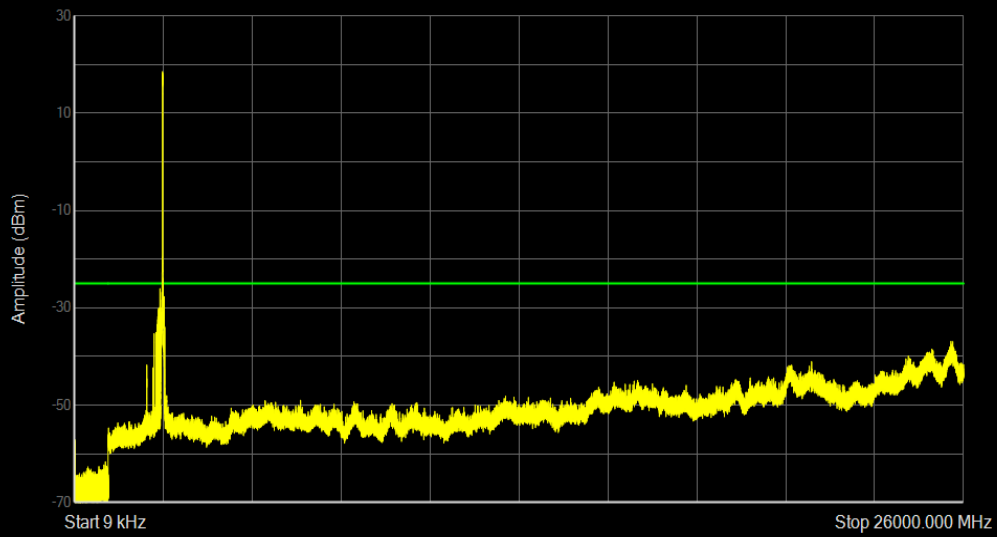
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-56.28	-25
2	0.15	30	10	0.15	-60.56	-25
3	30	1000	100	794.5055	-61.21	-25
4	1000	26000	1000	2456.25	-30.5	-25

Band38 16QAM BW=15MHz Channel=37825 RB Size=75 Position=#0



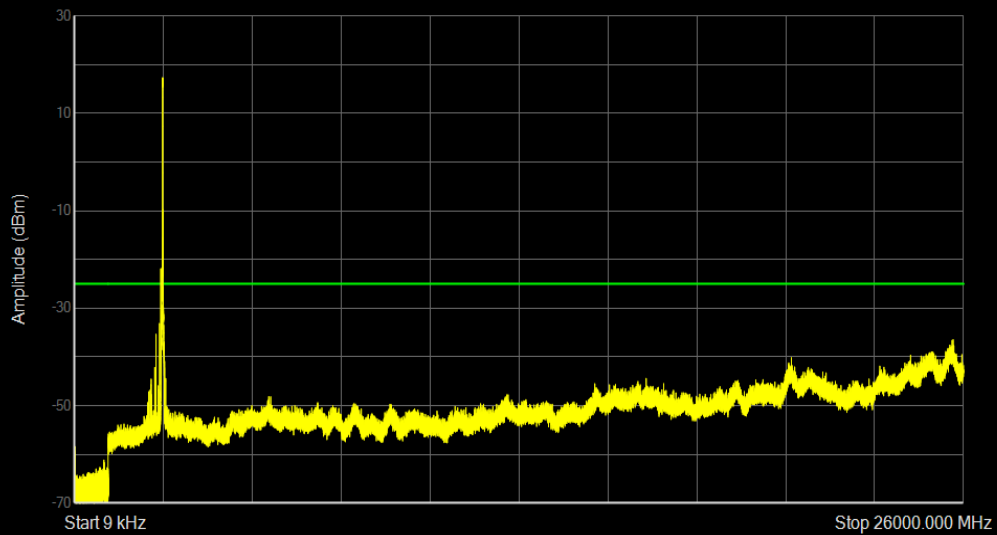
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0096486	-58.58	-25
2	0.15	30	10	0.15	-59.11	-25
3	30	1000	100	976.21075	-62.57	-25
4	1000	26000	1000	25650.625	-37.08	-25

Band38 QPSK BW=15MHz Channel=38000 RB Size=75 Position=#0



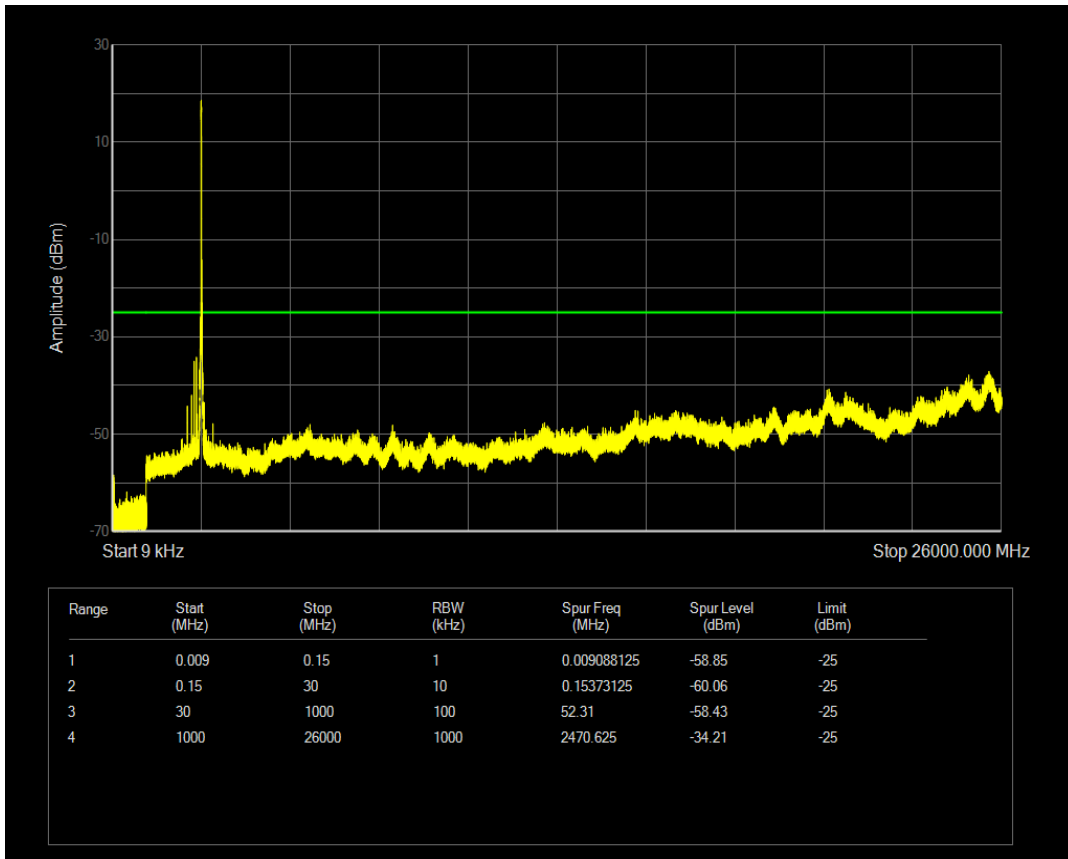
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009687375	-58.97	-25
2	0.15	30	10	0.15074625	-59.45	-25
3	30	1000	100	32.8615	-57.16	-25
4	1000	26000	1000	2489.375	-29.97	-25

Band38 16QAM BW=15MHz Channel=38000 RB Size=75 Position=#0

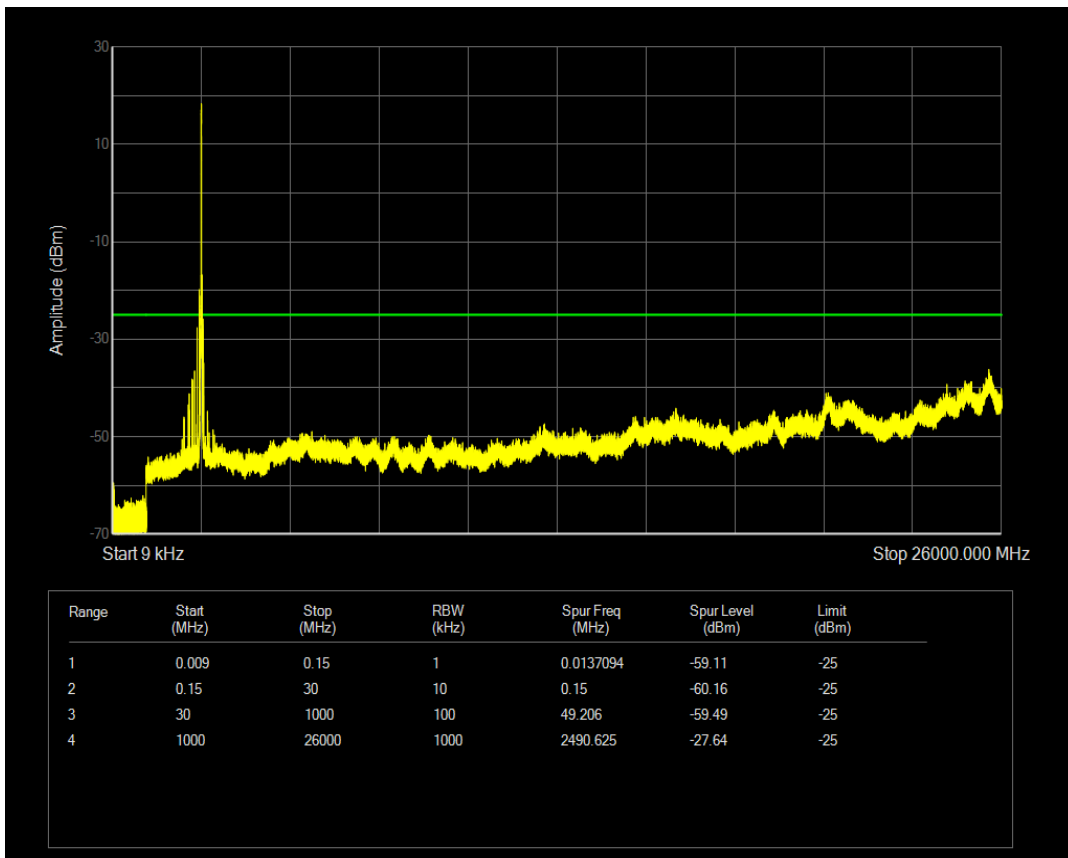


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-57.94	-25
2	0.15	30	10	0.1514925	-59.19	-25
3	30	1000	100	31.552	-58.41	-25
4	1000	26000	1000	2503.125	-33.13	-25

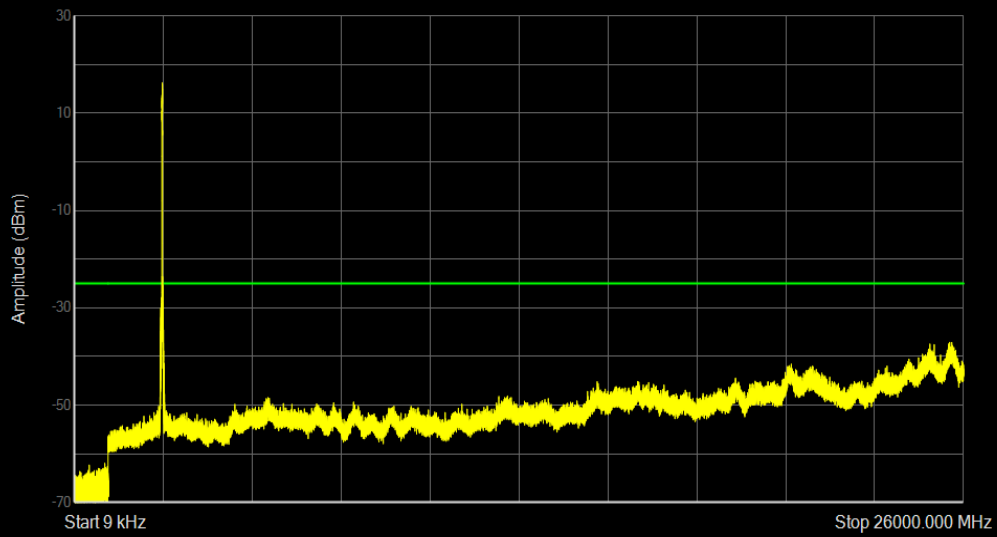
Band38 QPSK BW=15MHz Channel=38175 RB Size=75 Position=#0



Band38 16QAM BW=15MHz Channel=38175 RB Size=75 Position=#0

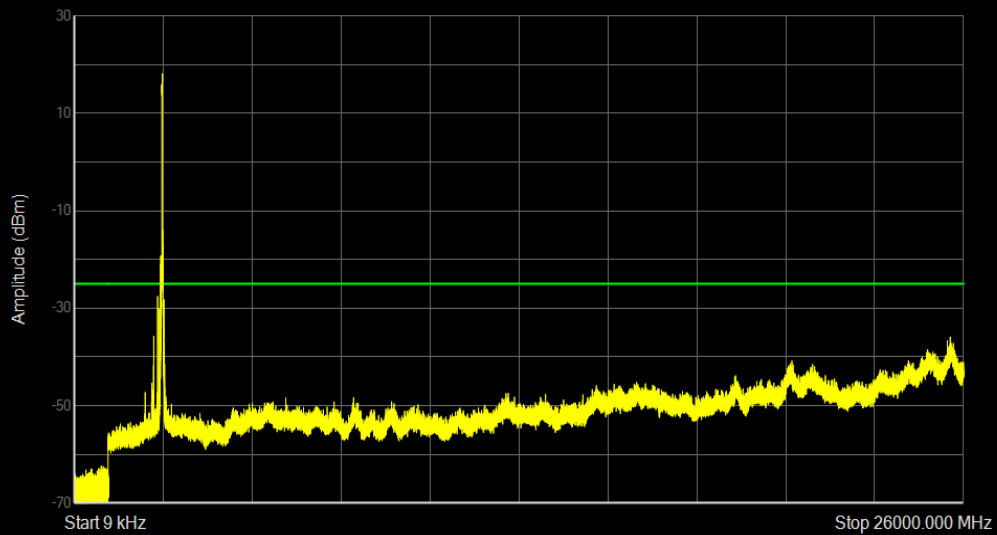


Band38 QPSK BW=20MHz Channel=37850 RB Size=100 Position=#0



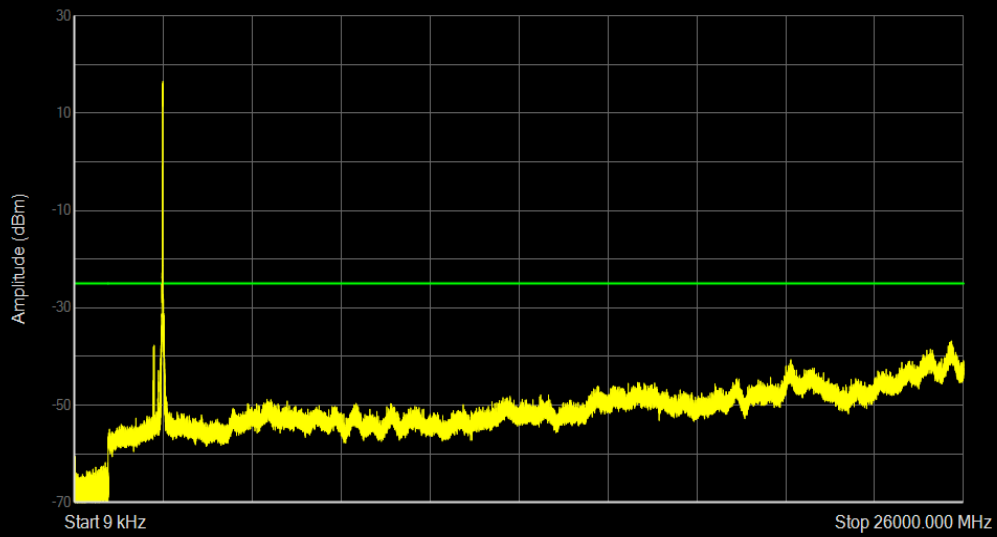
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00933135	-59.46	-25
2	0.15	30	10	0.1544775	-58.24	-25
3	30	1000	100	903.7275	-61.97	-25
4	1000	26000	1000	25594.375	-37.1	-25

Band38 16QAM BW=20MHz Channel=37850 RB Size=100 Position=#0



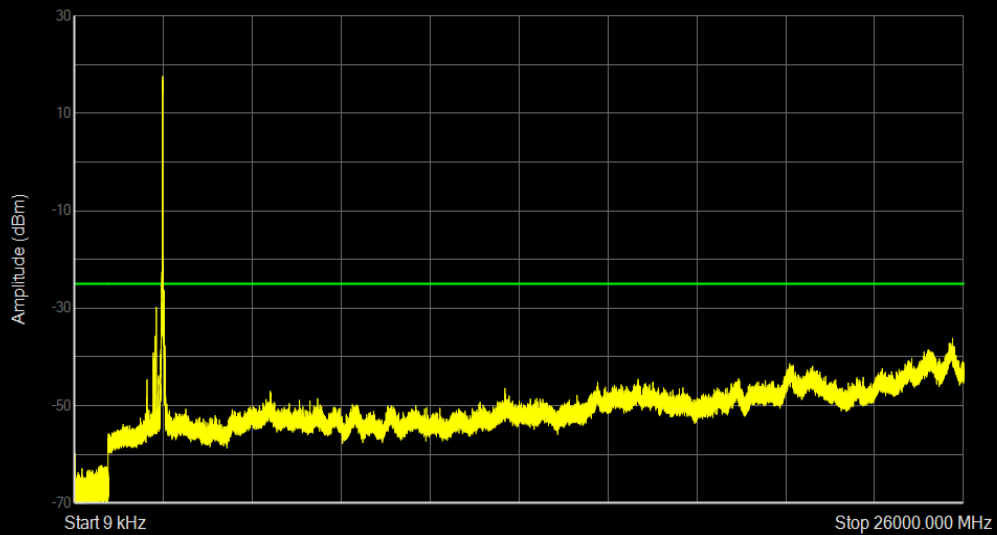
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00924675	-57.48	-25
2	0.15	30	10	0.158955	-59.5	-25
3	30	1000	100	801.1985	-62.39	-25
4	1000	26000	1000	2448.125	-27.58	-25

Band38 QPSK BW=20MHz Channel=38000 RB Size=100 Position=#0



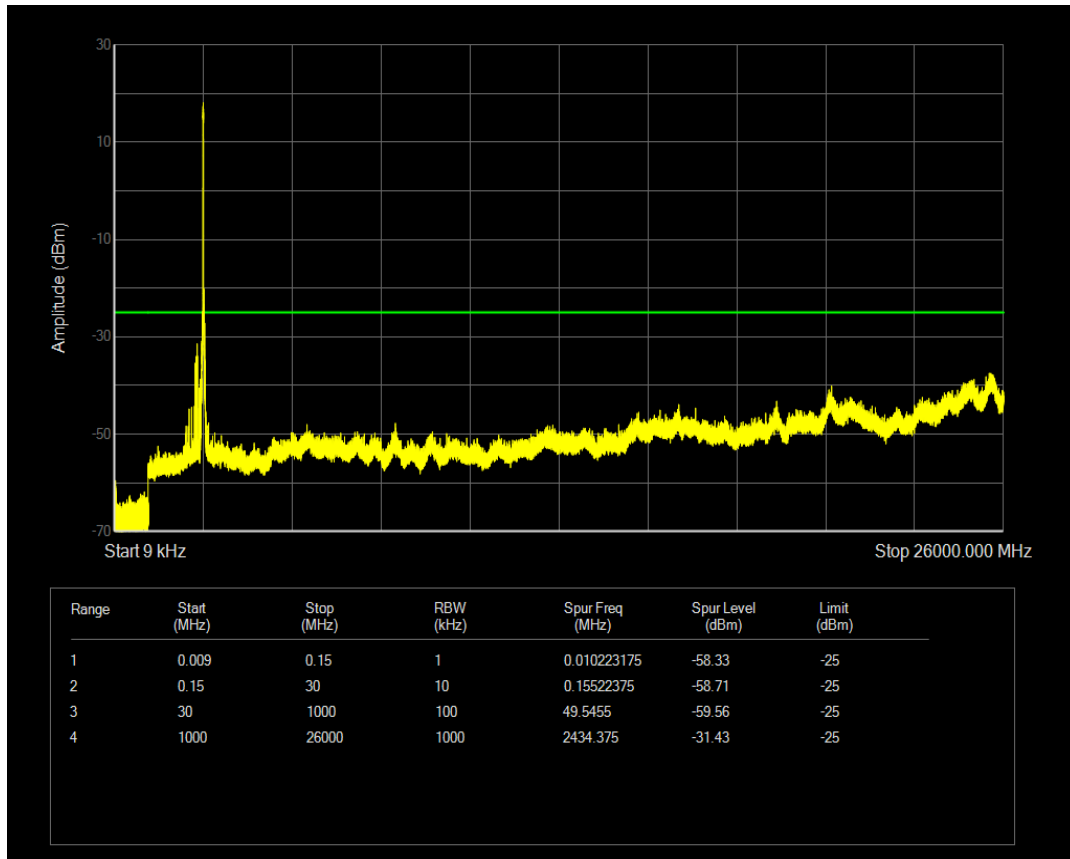
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011943375	-58.29	-25
2	0.15	30	10	0.15	-60.02	-25
3	30	1000	100	32.49775	-60.54	-25
4	1000	26000	1000	25651.25	-36.81	-25

Band38 16QAM BW=20MHz Channel=38000 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	0.015701025	-58.09	-25
2	0.15	30	10	0.15	-59.69	-25
3	30	1000	100	33.75875	-59.76	-25
4	1000	26000	1000	2409.375	-29.8	-25

Band38 QPSK BW=20MHz Channel=38150 RB Size=100 Position=#0



Band38 16QAM BW=20MHz Channel=38150 RB Size=100 Position=#0

