

1 Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band38	5	37775	1	#0	QPSK	22.14	1.77	23.91	33	PASS
Band38	5	37775	1	#Mid	QPSK	22.14	1.77	23.91	33	PASS
Band38	5	37775	1	#Max	QPSK	22.05	1.77	23.82	33	PASS
Band38	5	37775	12	#0	QPSK	21.19	1.77	22.96	33	PASS
Band38	5	37775	12	#Mid	QPSK	21.26	1.77	23.03	33	PASS
Band38	5	37775	12	#Max	QPSK	21.22	1.77	22.99	33	PASS
Band38	5	37775	25	#0	QPSK	21.24	1.77	23.01	33	PASS
Band38	5	37775	1	#0	QAM16	21.65	1.77	23.42	33	PASS
Band38	5	37775	1	#Mid	QAM16	21.69	1.77	23.46	33	PASS
Band38	5	37775	1	#Max	QAM16	21.65	1.77	23.42	33	PASS
Band38	5	37775	12	#0	QAM16	20.39	1.77	22.16	33	PASS
Band38	5	37775	12	#Mid	QAM16	20.4	1.77	22.17	33	PASS
Band38	5	37775	12	#Max	QAM16	20.42	1.77	22.19	33	PASS
Band38	5	37775	25	#0	QAM16	20.34	1.77	22.11	33	PASS
Band38	5	38000	1	#0	QPSK	22.03	1.77	23.8	33	PASS
Band38	5	38000	1	#Mid	QPSK	22.03	1.77	23.8	33	PASS
Band38	5	38000	1	#Max	QPSK	21.99	1.77	23.76	33	PASS
Band38	5	38000	12	#0	QPSK	21.1	1.77	22.87	33	PASS
Band38	5	38000	12	#Mid	QPSK	21.09	1.77	22.86	33	PASS
Band38	5	38000	12	#Max	QPSK	21.1	1.77	22.87	33	PASS
Band38	5	38000	25	#0	QPSK	21.12	1.77	22.89	33	PASS
Band38	5	38000	1	#0	QAM16	21.82	1.77	23.59	33	PASS
Band38	5	38000	1	#Mid	QAM16	21.8	1.77	23.57	33	PASS
Band38	5	38000	1	#Max	QAM16	21.72	1.77	23.49	33	PASS
Band38	5	38000	12	#0	QAM16	20.21	1.77	21.98	33	PASS
Band38	5	38000	12	#Mid	QAM16	20.27	1.77	22.04	33	PASS
Band38	5	38000	12	#Max	QAM16	20.19	1.77	21.96	33	PASS
Band38	5	38000	25	#0	QAM16	20.18	1.77	21.95	33	PASS
Band38	5	38225	1	#0	QPSK	21.19	1.77	22.96	33	PASS
Band38	5	38225	1	#Mid	QPSK	21.26	1.77	23.03	33	PASS
Band38	5	38225	1	#Max	QPSK	21.22	1.77	22.99	33	PASS
Band38	5	38225	12	#0	QPSK	21.24	1.77	23.01	33	PASS
Band38	5	38225	12	#Mid	QPSK	21.65	1.77	23.42	33	PASS
Band38	5	38225	12	#Max	QPSK	21.69	1.77	23.46	33	PASS
Band38	5	38225	25	#0	QPSK	21.65	1.77	23.42	33	PASS
Band38	5	38225	1	#0	QAM16	20.39	1.77	22.16	33	PASS
Band38	5	38225	1	#Mid	QAM16	22	1.77	23.77	33	PASS
Band38	5	38225	1	#Max	QAM16	21.91	1.77	23.68	33	PASS
Band38	5	38225	12	#0	QAM16	21.93	1.77	23.7	33	PASS
Band38	5	38225	12	#Mid	QAM16	22.08	1.77	23.85	33	PASS
Band38	5	38225	12	#Max	QAM16	22.18	1.77	23.95	33	PASS

Band38	5	38225	25	#0	QAM16	22.08	1.77	23.85	33	PASS
Band38	10	37800	1	#0	QPSK	21.01	1.77	22.78	33	PASS
Band38	10	37800	1	#Mid	QPSK	21.04	1.77	22.81	33	PASS
Band38	10	37800	1	#Max	QPSK	20.97	1.77	22.74	33	PASS
Band38	10	37800	25	#0	QPSK	21.04	1.77	22.81	33	PASS
Band38	10	37800	25	#Mid	QPSK	22.93	1.77	24.7	33	PASS
Band38	10	37800	25	#Max	QPSK	22.97	1.77	24.74	33	PASS
Band38	10	37800	50	#0	QPSK	22.98	1.77	24.75	33	PASS
Band38	10	37800	1	#0	QAM16	21.91	1.77	23.68	33	PASS
Band38	10	37800	1	#Mid	QAM16	21.9	1.77	23.67	33	PASS
Band38	10	37800	1	#Max	QAM16	22.18	1.77	23.95	33	PASS
Band38	10	37800	25	#0	QAM16	22.24	1.77	24.01	33	PASS
Band38	10	37800	25	#Mid	QAM16	22.25	1.77	24.02	33	PASS
Band38	10	37800	25	#Max	QAM16	21.05	1.77	22.82	33	PASS
Band38	10	38000	1	#0	QPSK	21.07	1.77	22.84	33	PASS
Band38	10	38000	1	#Mid	QPSK	21.01	1.77	22.78	33	PASS
Band38	10	38000	1	#Max	QPSK	20.96	1.77	22.73	33	PASS
Band38	10	38000	25	#0	QPSK	22.96	1.77	24.73	33	PASS
Band38	10	38000	25	#Mid	QPSK	22.97	1.77	24.74	33	PASS
Band38	10	38000	25	#Max	QPSK	22.97	1.77	24.74	33	PASS
Band38	10	38000	50	#0	QPSK	22.03	1.77	23.8	33	PASS
Band38	10	38000	1	#0	QAM16	22.05	1.77	23.82	33	PASS
Band38	10	38000	1	#Mid	QAM16	22.05	1.77	23.82	33	PASS
Band38	10	38000	1	#Max	QAM16	22.02	1.77	23.79	33	PASS
Band38	10	38000	25	#0	QAM16	22.56	1.77	24.33	33	PASS
Band38	10	38000	25	#Mid	QAM16	22.61	1.77	24.38	33	PASS
Band38	10	38000	25	#Max	QAM16	21.93	1.77	23.7	33	PASS
Band38	10	38200	1	#0	QPSK	22.08	1.77	23.85	33	PASS
Band38	10	38200	1	#Mid	QPSK	22.18	1.77	23.95	33	PASS
Band38	10	38200	1	#Max	QPSK	22.08	1.77	23.85	33	PASS
Band38	10	38200	25	#0	QPSK	21.01	1.77	22.78	33	PASS
Band38	10	38200	25	#Mid	QPSK	21.04	1.77	22.81	33	PASS
Band38	10	38200	25	#Max	QPSK	20.97	1.77	22.74	33	PASS
Band38	10	38200	50	#0	QPSK	21.04	1.77	22.81	33	PASS
Band38	10	38200	1	#0	QAM16	22.93	1.77	24.7	33	PASS
Band38	10	38200	1	#Mid	QAM16	22.97	1.77	24.74	33	PASS
Band38	10	38200	1	#Max	QAM16	22.98	1.77	24.75	33	PASS
Band38	10	38200	25	#0	QAM16	21.94	1.77	23.71	33	PASS
Band38	10	38200	25	#Mid	QAM16	21.94	1.77	23.71	33	PASS
Band38	10	38200	25	#Max	QAM16	21.9	1.77	23.67	33	PASS
Band38	15	37825	1	#0	QPSK	21.96	1.77	23.73	33	PASS
Band38	15	37825	1	#Mid	QPSK	21.8	1.77	23.57	33	PASS
Band38	15	37825	1	#Max	QPSK	21.87	1.77	23.64	33	PASS
Band38	15	37825	36	#0	QPSK	21.85	1.77	23.62	33	PASS

Band38	15	37825	36	#Mid	QPSK	21.06	1.77	22.83	33	PASS
Band38	15	37825	36	#Max	QPSK	21.02	1.77	22.79	33	PASS
Band38	15	37825	75	#0	QPSK	20.98	1.77	22.75	33	PASS
Band38	15	37825	1	#0	QAM16	21.93	1.77	23.7	33	PASS
Band38	15	37825	1	#Mid	QAM16	22.08	1.77	23.85	33	PASS
Band38	15	37825	1	#Max	QAM16	21.51	1.77	23.28	33	PASS
Band38	15	37825	36	#0	QAM16	20.39	1.77	22.16	33	PASS
Band38	15	37825	36	#Mid	QAM16	20.4	1.77	22.17	33	PASS
Band38	15	37825	36	#Max	QAM16	20.38	1.77	22.15	33	PASS
Band38	15	37825	75	#0	QAM16	20.29	1.77	22.06	33	PASS
Band38	15	38000	1	#0	QPSK	22.25	1.77	24.02	33	PASS
Band38	15	38000	1	#Mid	QPSK	22.14	1.77	23.91	33	PASS
Band38	15	38000	1	#Max	QPSK	22.06	1.77	23.83	33	PASS
Band38	15	38000	36	#0	QPSK	21.12	1.77	22.89	33	PASS
Band38	15	38000	36	#Mid	QPSK	21.08	1.77	22.85	33	PASS
Band38	15	38000	36	#Max	QPSK	21	1.77	22.77	33	PASS
Band38	15	38000	75	#0	QPSK	21.09	1.77	22.86	33	PASS
Band38	15	38000	1	#0	QAM16	21.51	1.77	23.28	33	PASS
Band38	15	38000	1	#Mid	QAM16	21.43	1.77	23.2	33	PASS
Band38	15	38000	1	#Max	QAM16	21.33	1.77	23.1	33	PASS
Band38	15	38000	36	#0	QAM16	20.23	1.77	22	33	PASS
Band38	15	38000	36	#Mid	QAM16	20.23	1.77	22	33	PASS
Band38	15	38000	36	#Max	QAM16	20.13	1.77	21.9	33	PASS
Band38	15	38000	75	#0	QAM16	20.26	1.77	22.03	33	PASS
Band38	15	38175	1	#0	QPSK	21.79	1.77	23.56	33	PASS
Band38	15	38175	1	#Mid	QPSK	21.69	1.77	23.46	33	PASS
Band38	15	38175	1	#Max	QPSK	21.65	1.77	23.42	33	PASS
Band38	15	38175	36	#0	QPSK	20.81	1.77	22.58	33	PASS
Band38	15	38175	36	#Mid	QPSK	20.73	1.77	22.5	33	PASS
Band38	15	38175	36	#Max	QPSK	20.73	1.77	22.5	33	PASS
Band38	15	38175	75	#0	QPSK	20.76	1.77	22.53	33	PASS
Band38	15	38175	1	#0	QAM16	21.49	1.77	23.26	33	PASS
Band38	15	38175	1	#Mid	QAM16	21.35	1.77	23.12	33	PASS
Band38	15	38175	1	#Max	QAM16	21.32	1.77	23.09	33	PASS
Band38	15	38175	36	#0	QAM16	19.97	1.77	21.74	33	PASS
Band38	15	38175	36	#Mid	QAM16	19.96	1.77	21.73	33	PASS
Band38	15	38175	36	#Max	QAM16	19.9	1.77	21.67	33	PASS
Band38	15	38175	75	#0	QAM16	19.87	1.77	21.64	33	PASS
Band38	20	37850	1	#0	QPSK	22.2	1.77	23.97	33	PASS
Band38	20	37850	1	#Mid	QPSK	22.17	1.77	23.94	33	PASS
Band38	20	37850	1	#Max	QPSK	22.11	1.77	23.88	33	PASS
Band38	20	37850	50	#0	QPSK	21.26	1.77	23.03	33	PASS
Band38	20	37850	50	#Mid	QPSK	21.29	1.77	23.06	33	PASS
Band38	20	37850	50	#Max	QPSK	21.22	1.77	22.99	33	PASS

Band38	20	37850	100	#0	QPSK	21.27	1.77	23.04	33	PASS
Band38	20	37850	1	#0	QAM16	21.61	1.77	23.38	33	PASS
Band38	20	37850	1	#Mid	QAM16	21.57	1.77	23.34	33	PASS
Band38	20	37850	1	#Max	QAM16	21.57	1.77	23.34	33	PASS
Band38	20	37850	50	#0	QAM16	20.45	1.77	22.22	33	PASS
Band38	20	37850	50	#Mid	QAM16	20.45	1.77	22.22	33	PASS
Band38	20	37850	50	#Max	QAM16	20.4	1.77	22.17	33	PASS
Band38	20	37850	100	#0	QAM16	20.36	1.77	22.13	33	PASS
Band38	20	38000	1	#0	QPSK	22.16	1.77	23.93	33	PASS
Band38	20	38000	1	#Mid	QPSK	22.07	1.77	23.84	33	PASS
Band38	20	38000	1	#Max	QPSK	21.96	1.77	23.73	33	PASS
Band38	20	38000	50	#0	QPSK	21.18	1.77	22.95	33	PASS
Band38	20	38000	50	#Mid	QPSK	21.16	1.77	22.93	33	PASS
Band38	20	38000	50	#Max	QPSK	21.09	1.77	22.86	33	PASS
Band38	20	38000	100	#0	QPSK	21.12	1.77	22.89	33	PASS
Band38	20	38000	1	#0	QAM16	21.54	1.77	23.31	33	PASS
Band38	20	38000	1	#Mid	QAM16	21.44	1.77	23.21	33	PASS
Band38	20	38000	1	#Max	QAM16	21.33	1.77	23.1	33	PASS
Band38	20	38000	50	#0	QAM16	20.26	1.77	22.03	33	PASS
Band38	20	38000	50	#Mid	QAM16	20.23	1.77	22	33	PASS
Band38	20	38000	50	#Max	QAM16	20.18	1.77	21.95	33	PASS
Band38	20	38000	100	#0	QAM16	20.27	1.77	22.04	33	PASS
Band38	20	38150	1	#0	QPSK	21.94	1.77	23.71	33	PASS
Band38	20	38150	1	#Mid	QPSK	21.81	1.77	23.58	33	PASS
Band38	20	38150	1	#Max	QPSK	21.68	1.77	23.45	33	PASS
Band38	20	38150	50	#0	QPSK	20.92	1.77	22.69	33	PASS
Band38	20	38150	50	#Mid	QPSK	20.87	1.77	22.64	33	PASS
Band38	20	38150	50	#Max	QPSK	20.77	1.77	22.54	33	PASS
Band38	20	38150	100	#0	QPSK	20.82	1.77	22.59	33	PASS
Band38	20	38150	1	#0	QAM16	21.28	1.77	23.05	33	PASS
Band38	20	38150	1	#Mid	QAM16	21.08	1.77	22.85	33	PASS
Band38	20	38150	1	#Max	QAM16	21.03	1.77	22.8	33	PASS
Band38	20	38150	50	#0	QAM16	20.08	1.77	21.85	33	PASS
Band38	20	38150	50	#Mid	QAM16	20	1.77	21.77	33	PASS
Band38	20	38150	50	#Max	QAM16	19.91	1.77	21.68	33	PASS
Band38	20	38150	100	#0	QAM16	20.02	1.77	21.79	33	PASS

2 Frequency stability

2.1 Frequency VS Voltage

Band	Bandwidth (MHz)	Voltage	Temp (°C)	UL Channel	RB Size	RB Position	Modulation	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
Band38	20	LV	NT	37850	100	#0	QPSK	1.07	0.000	±2.5	PASS
Band38	20	NV	NT	37850	100	#0	QPSK	3.66	0.001	±2.5	PASS
Band38	20	HV	NT	37850	100	#0	QPSK	-5.85	-0.002	±2.5	PASS
Band38	20	LV	NT	38000	100	#0	QPSK	-3.01	-0.001	±2.5	PASS
Band38	20	NV	NT	38000	100	#0	QPSK	2.20	0.001	±2.5	PASS
Band38	20	HV	NT	38000	100	#0	QPSK	1.72	0.001	±2.5	PASS
Band38	20	LV	NT	38150	100	#0	QPSK	-0.14	0.000	±2.5	PASS
Band38	20	NV	NT	38150	100	#0	QPSK	-0.91	-0.001	±2.5	PASS
Band38	20	HV	NT	38150	100	#0	QPSK	-3.34	-0.005	±2.5	PASS
Band38	20	LV	NT	37850	100	#0	QAM16	-5.16	-0.007	±2.5	PASS
Band38	20	NV	NT	37850	100	#0	QAM16	0.59	0.001	±2.5	PASS
Band38	20	HV	NT	37850	100	#0	QAM16	2.60	0.004	±2.5	PASS
Band38	20	LV	NT	38000	100	#0	QAM16	-1.54	-0.002	±2.5	PASS
Band38	20	NV	NT	38000	100	#0	QAM16	-3.62	-0.005	±2.5	PASS
Band38	20	HV	NT	38000	100	#0	QAM16	-2.36	-0.003	±2.5	PASS
Band38	20	LV	NT	38150	100	#0	QAM16	-4.23	-0.006	±2.5	PASS
Band38	20	NV	NT	38150	100	#0	QAM16	5.20	0.007	±2.5	PASS
Band38	20	HV	NT	38150	100	#0	QAM16	3.22	0.005	±2.5	PASS

2.2 .Frequency Vs Temperature

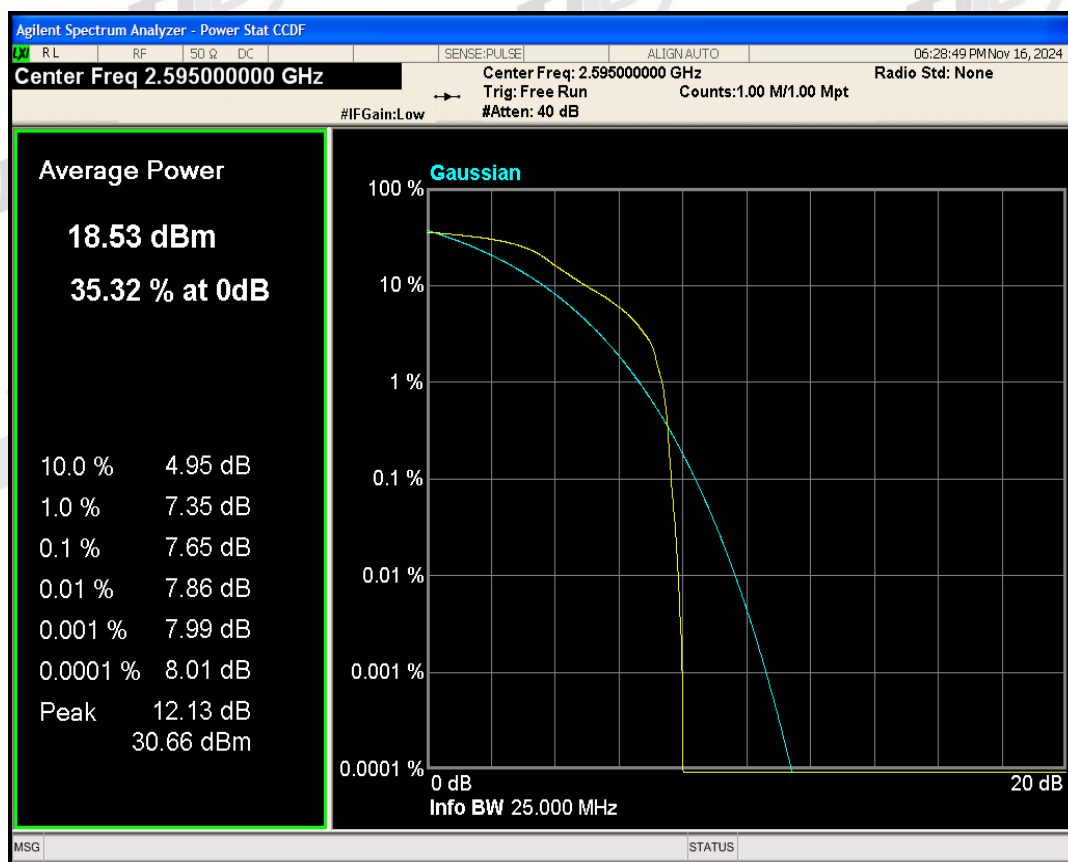
Band	Bandwidth (MHz)	Voltage	Temp (°C)	UL Channel	RB Size	RB Position	Modulation	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
Band38	20	NV	-30	37850	100	#0	QPSK	2.60	0.004	±2.5	PASS
Band38	20	NV	-20	37850	100	#0	QPSK	-1.54	-0.002	±2.5	PASS
Band38	20	NV	0	37850	100	#0	QPSK	-3.62	-0.005	±2.5	PASS
Band38	20	NV	10	37850	100	#0	QPSK	-2.36	-0.003	±2.5	PASS
Band38	20	NV	20	37850	100	#0	QPSK	-4.23	-0.006	±2.5	PASS
Band38	20	NV	30	37850	100	#0	QPSK	5.20	0.007	±2.5	PASS
Band38	20	NV	40	37850	100	#0	QPSK	3.22	0.005	±2.5	PASS
Band38	20	NV	50	37850	100	#0	QPSK	1.68	0.002	±2.5	PASS
Band38	20	NV	-30	38000	100	#0	QPSK	2.30	0.003	±2.5	PASS
Band38	20	NV	-20	38000	100	#0	QPSK	0.97	0.001	±2.5	PASS
Band38	20	NV	0	38000	100	#0	QPSK	-10.08	-0.005	±2.5	PASS
Band38	20	NV	10	38000	100	#0	QPSK	10.94	0.006	±2.5	PASS
Band38	20	NV	20	38000	100	#0	QPSK	0.66	0.000	±2.5	PASS
Band38	20	NV	30	38000	100	#0	QPSK	2.99	0.002	±2.5	PASS
Band38	20	NV	40	38000	100	#0	QPSK	-9.37	-0.005	±2.5	PASS
Band38	20	NV	50	38000	100	#0	QPSK	3.96	0.002	±2.5	PASS
Band38	20	NV	-30	38150	100	#0	QPSK	6.70	0.003	±2.5	PASS
Band38	20	NV	-20	38150	100	#0	QPSK	-4.42	-0.002	±2.5	PASS

Band38	20	NV	0	38150	100	#0	QPSK	-5.96	-0.002	±2.5	PASS
Band38	20	NV	10	38150	100	#0	QPSK	2.46	0.001	±2.5	PASS
Band38	20	NV	20	38150	100	#0	QPSK	-0.58	0.000	±2.5	PASS
Band38	20	NV	30	38150	100	#0	QPSK	-5.94	-0.003	±2.5	PASS
Band38	20	NV	40	38150	100	#0	QPSK	-2.14	-0.001	±2.5	PASS
Band38	20	NV	50	38150	100	#0	QPSK	10.00	0.006	±2.5	PASS
Band38	20	NV	-30	37850	100	#0	16QAM	4.33	0.002	±2.5	PASS
Band38	20	NV	-20	37850	100	#0	16QAM	-3.80	-0.002	±2.5	PASS
Band38	20	NV	0	37850	100	#0	16QAM	-9.34	-0.005	±2.5	PASS
Band38	20	NV	10	37850	100	#0	16QAM	1.91	0.001	±2.5	PASS
Band38	20	NV	20	37850	100	#0	16QAM	1.08	0.000	±2.5	PASS
Band38	20	NV	30	37850	100	#0	16QAM	-1.59	-0.001	±2.5	PASS
Band38	20	NV	40	37850	100	#0	16QAM	-5.58	-0.002	±2.5	PASS
Band38	20	NV	50	37850	100	#0	16QAM	-0.77	0.000	±2.5	PASS
Band38	20	NV	-30	38000	100	#0	16QAM	10.72	0.004	±2.5	PASS
Band38	20	NV	-20	38000	100	#0	16QAM	6.19	0.002	±2.5	PASS
Band38	20	NV	0	38000	100	#0	16QAM	6.33	0.002	±2.5	PASS
Band38	20	NV	10	38000	100	#0	16QAM	1.52	0.001	±2.5	PASS
Band38	20	NV	20	38000	100	#0	16QAM	11.58	0.004	±2.5	PASS
Band38	20	NV	30	38000	100	#0	16QAM	-2.16	-0.003	±2.5	PASS
Band38	20	NV	40	38000	100	#0	16QAM	-2.27	-0.003	±2.5	PASS
Band38	20	NV	50	38000	100	#0	16QAM	-1.36	-0.002	±2.5	PASS
Band38	20	NV	-30	38150	100	#0	16QAM	-3.13	-0.004	±2.5	PASS
Band38	20	NV	-20	38150	100	#0	16QAM	-2.45	-0.003	±2.5	PASS
Band38	20	NV	0	38150	100	#0	16QAM	-3.87	-0.005	±2.5	PASS
Band38	20	NV	10	38150	100	#0	16QAM	-2.77	-0.001	±2.5	PASS
Band38	20	NV	20	38150	100	#0	16QAM	-3.68	-0.001	±2.5	PASS
Band38	20	NV	30	38150	100	#0	16QAM	5.29	0.002	±2.5	PASS
Band38	20	NV	40	38150	100	#0	16QAM	-6.48	-0.003	±2.5	PASS
Band38	20	NV	50	38150	100	#0	16QAM	5.78	0.002	±2.5	PASS

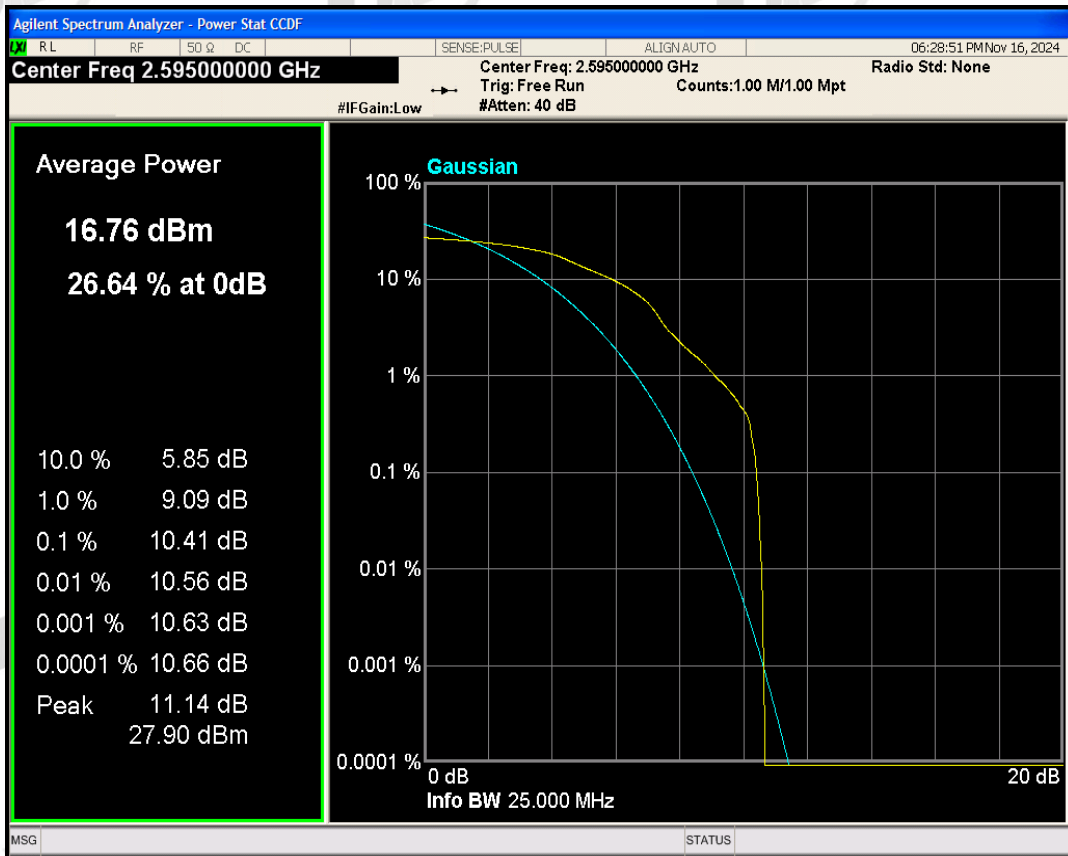
3 Peak-to-Average Ratio

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band38	5	38000	1	#0	QPSK	7.65	13	PASS
Band38	5	38000	1	#0	QAM16	10.41	13	PASS
Band38	10	38000	1	#0	QPSK	7.40	13	PASS
Band38	10	38000	1	#0	QAM16	9.29	13	PASS
Band38	15	38000	1	#0	QPSK	8.07	13	PASS
Band38	15	38000	1	#0	QAM16	10.66	13	PASS
Band38	20	38000	1	#0	QPSK	7.59	13	PASS
Band38	20	38000	1	#0	QAM16	8.83	13	PASS

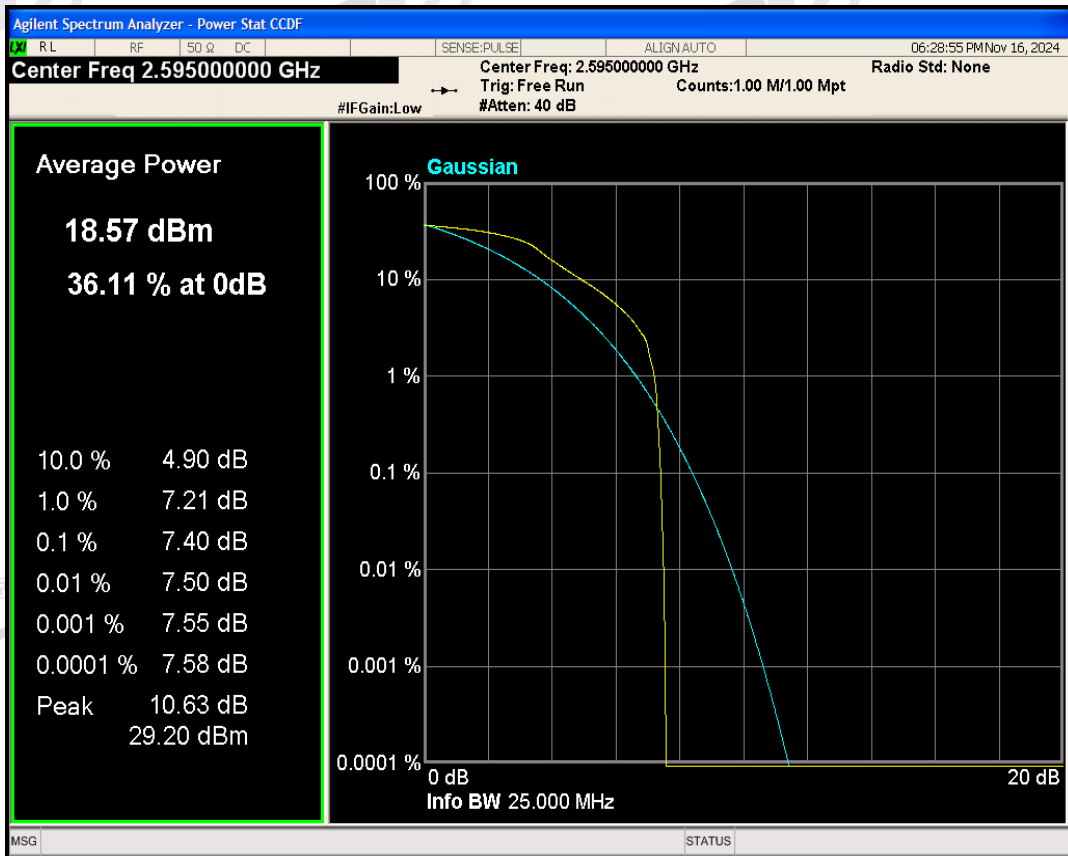
Band38 QPSK BW=5MHz Channel=38000 RB Size=1 Position=#0



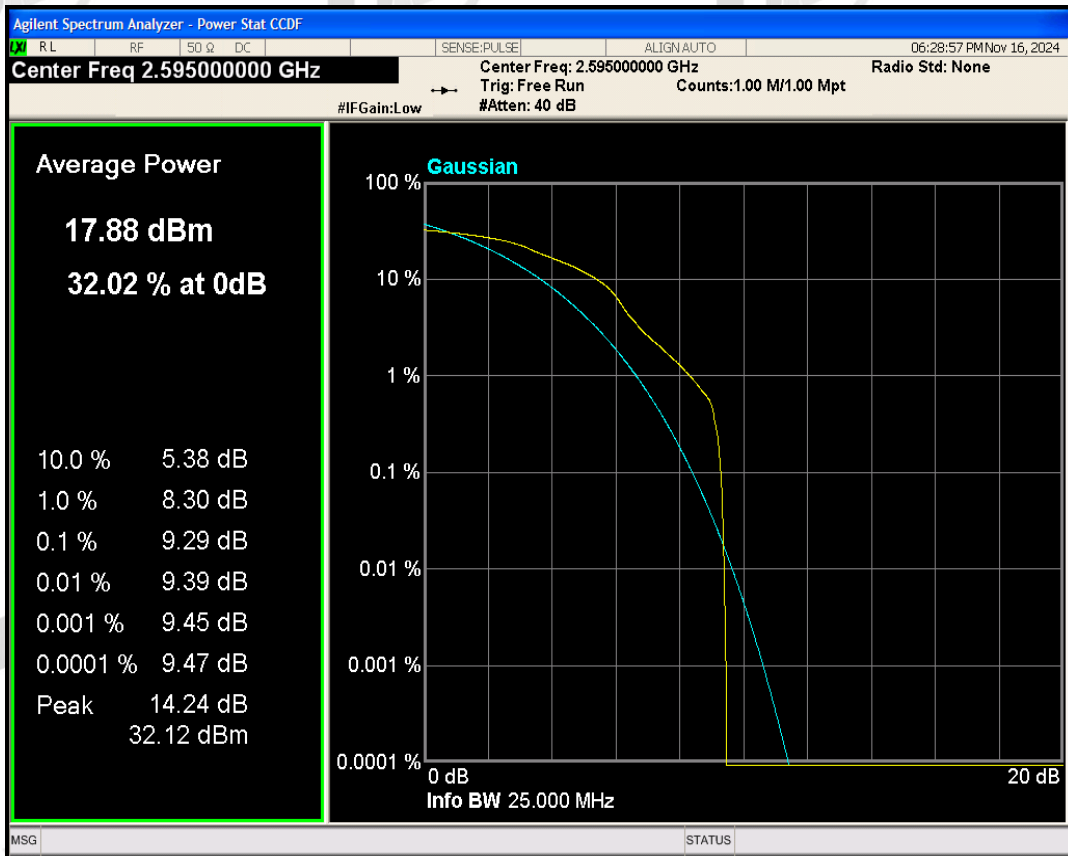
Band38 QAM16 BW=5MHz Channel=38000 RB Size=1 Position=#0



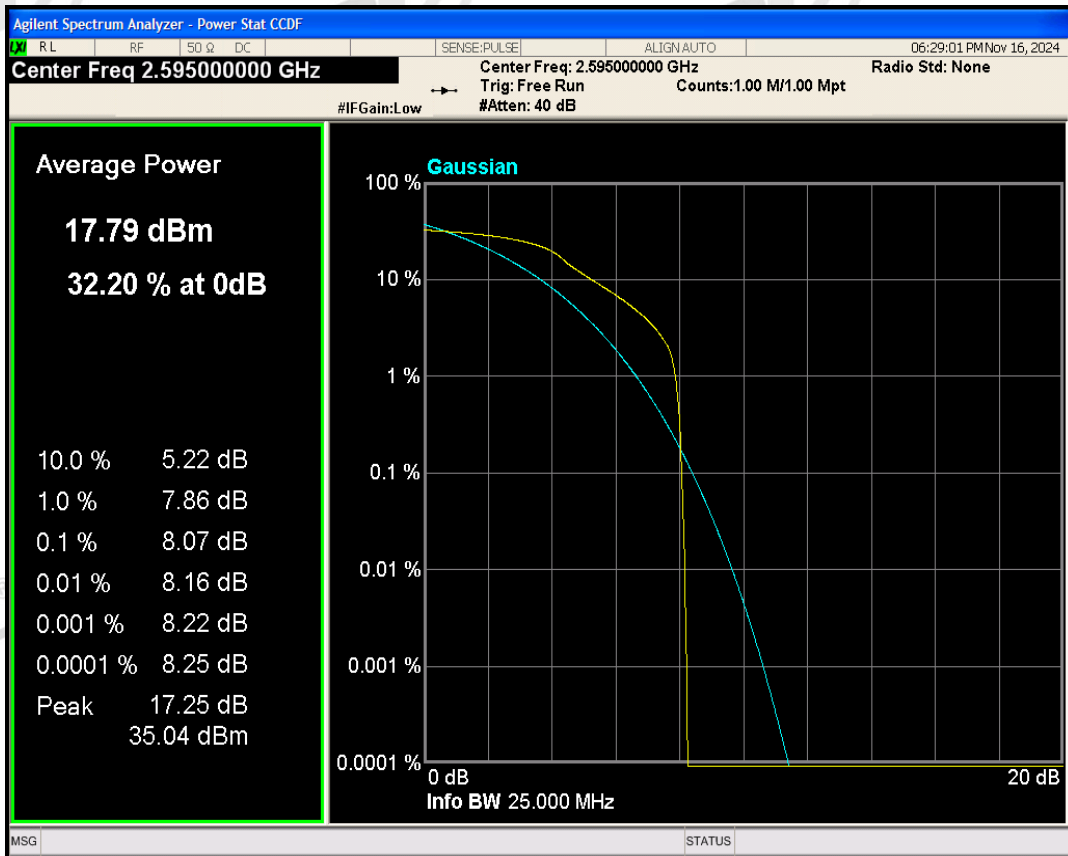
Band38 QPSK BW=10MHz Channel=38000 RB Size=1 Position=#0



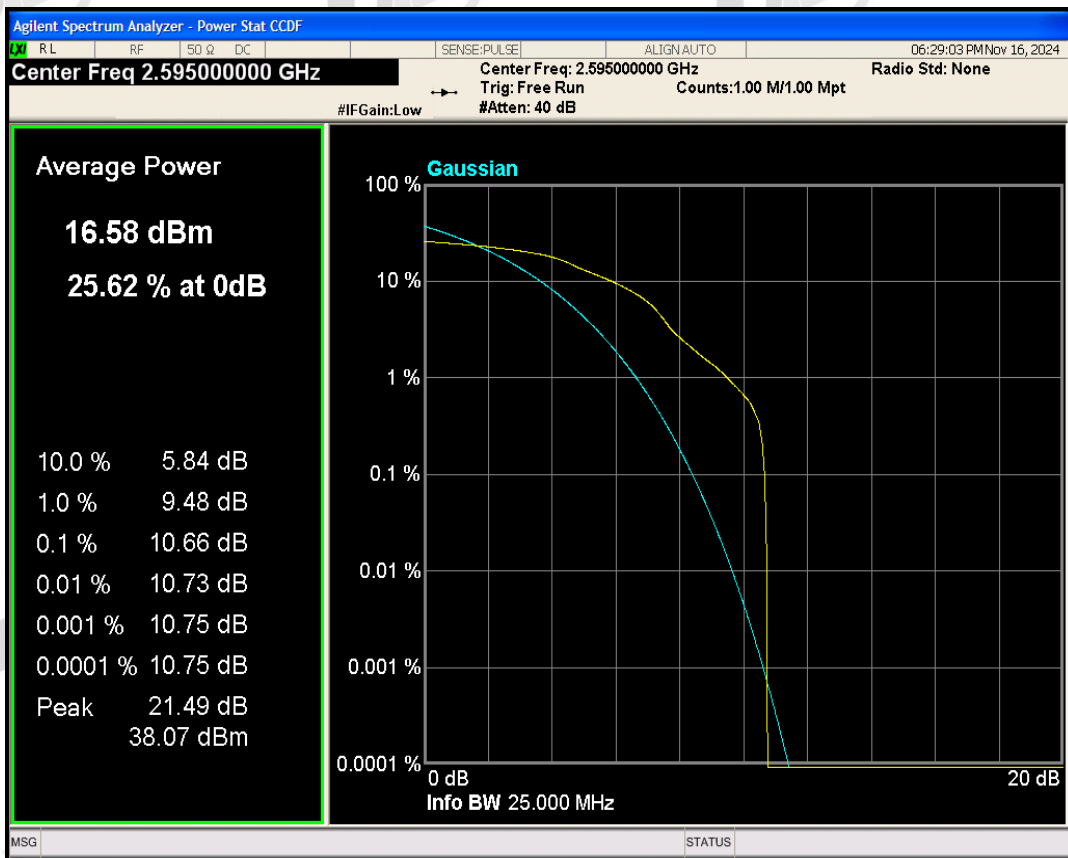
Band38 QAM16 BW=10MHz Channel=38000 RB Size=1 Position=#0



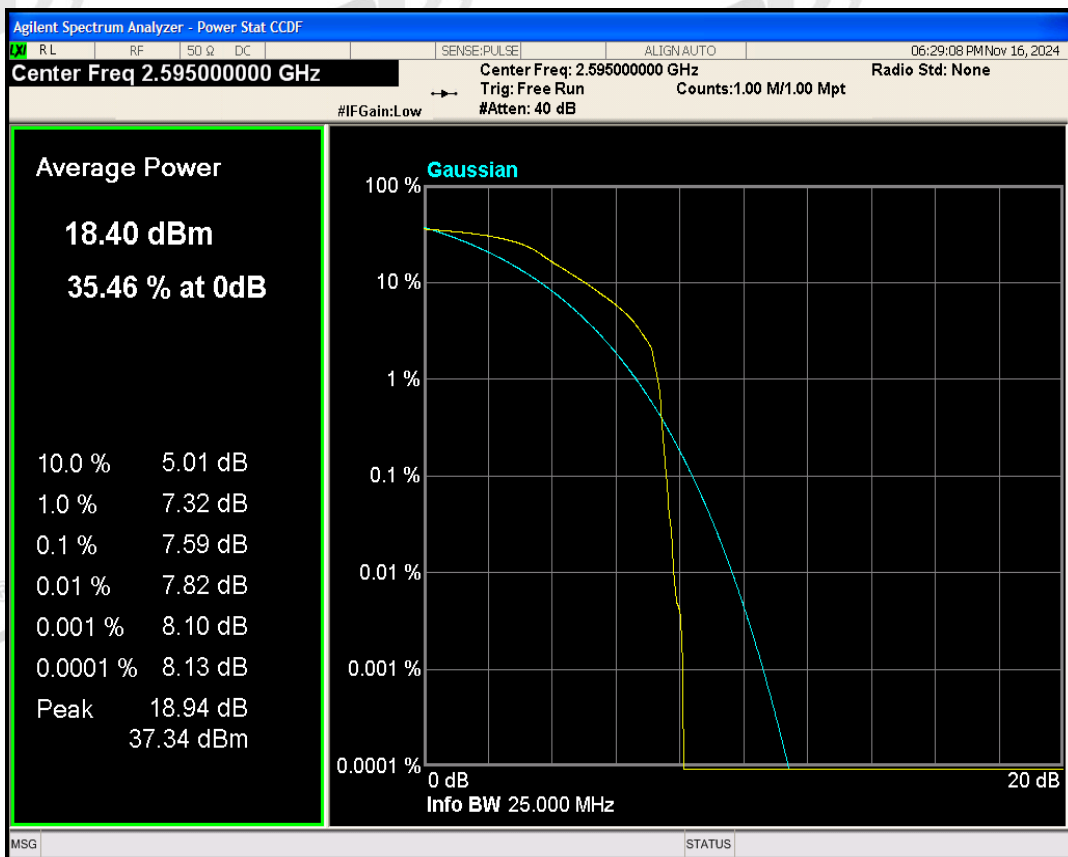
Band38 QPSK BW=15MHz Channel=38000 RB Size=1 Position=#0



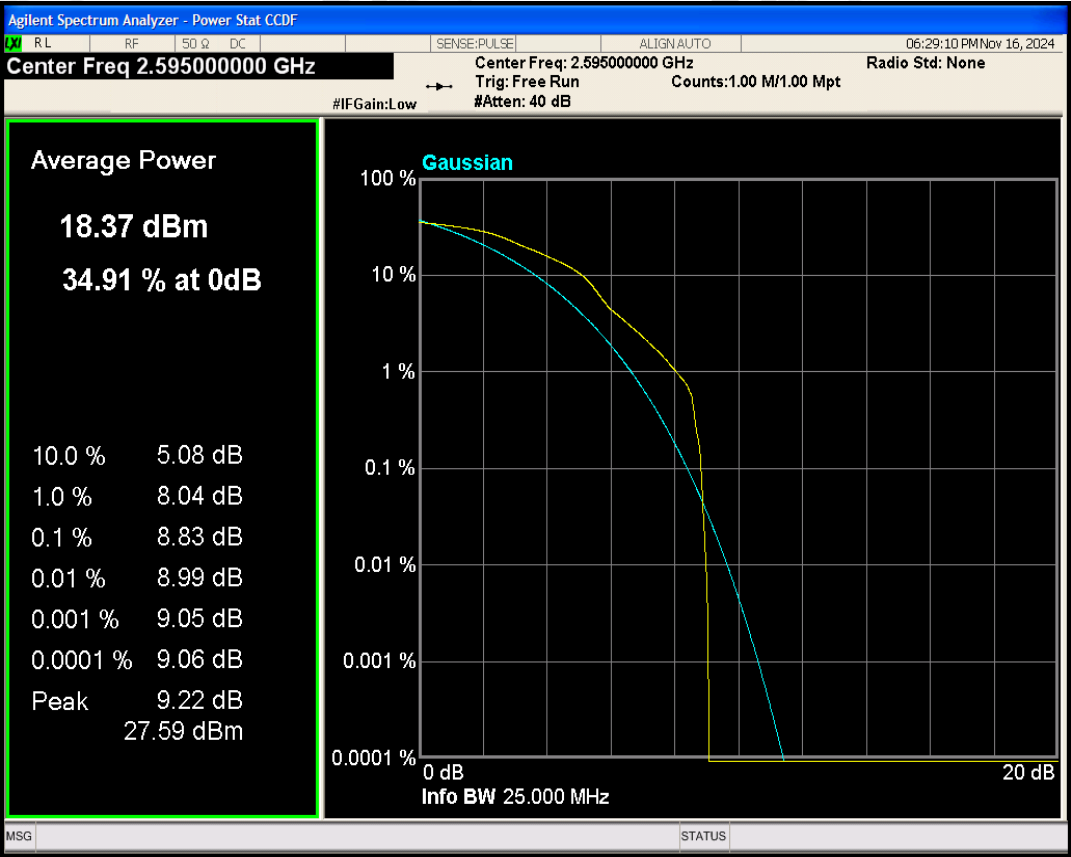
Band38 QAM16 BW=15MHz Channel=38000 RB Size=1 Position=#0



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



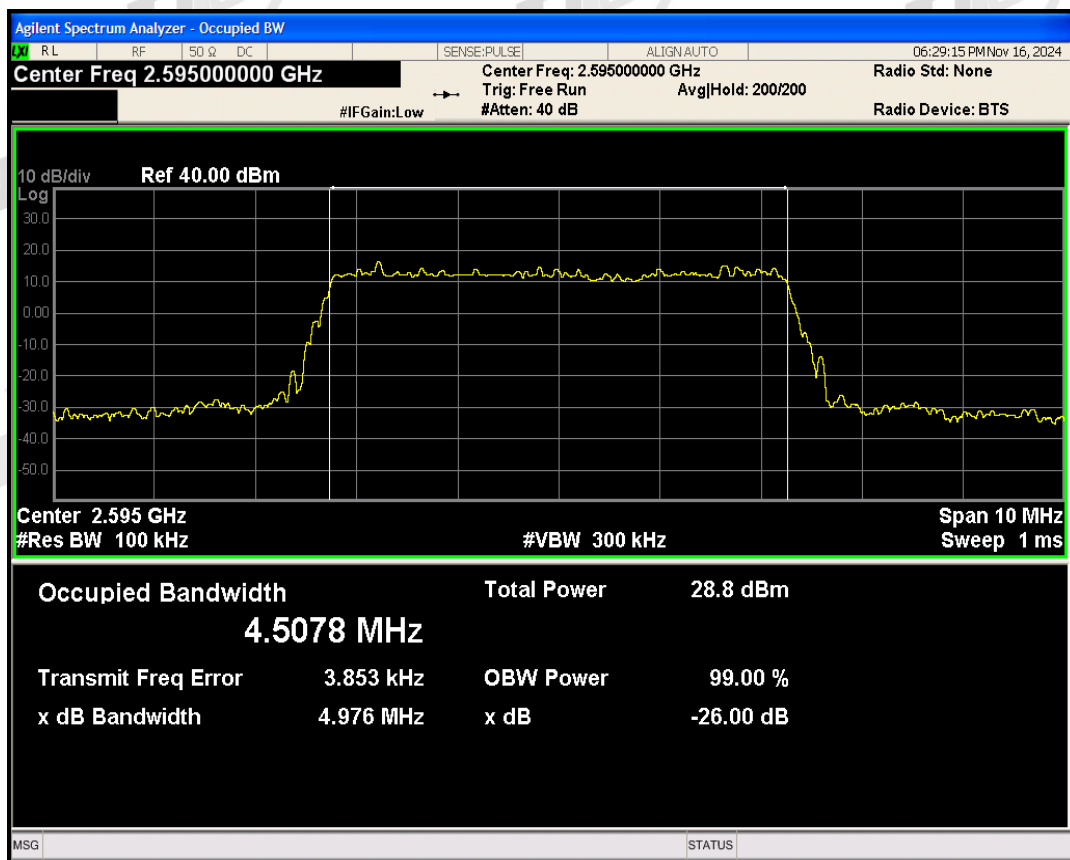
Band38 QAM16 BW=20MHz Channel=38000 RB Size=1 Position=#0



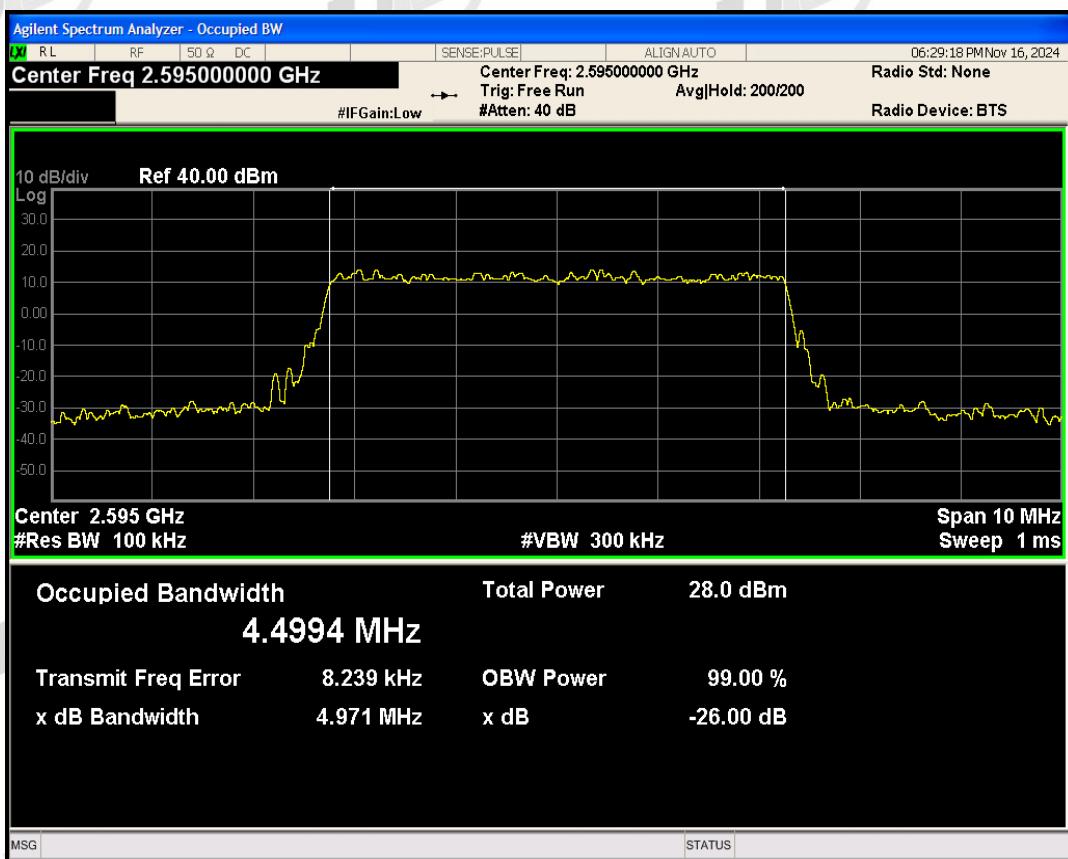
4 Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band38	5	38000	25	#0	QPSK	4.508	4.976	PASS
Band38	5	38000	25	#0	QAM16	4.499	4.971	PASS
Band38	10	38000	50	#0	QPSK	9.009	9.819	PASS
Band38	10	38000	50	#0	QAM16	8.989	9.785	PASS
Band38	15	38000	75	#0	QPSK	13.415	14.627	PASS
Band38	15	38000	75	#0	QAM16	13.431	14.378	PASS
Band38	20	38000	100	#0	QPSK	17.896	19.286	PASS
Band38	20	38000	100	#0	QAM16	17.888	19.240	PASS

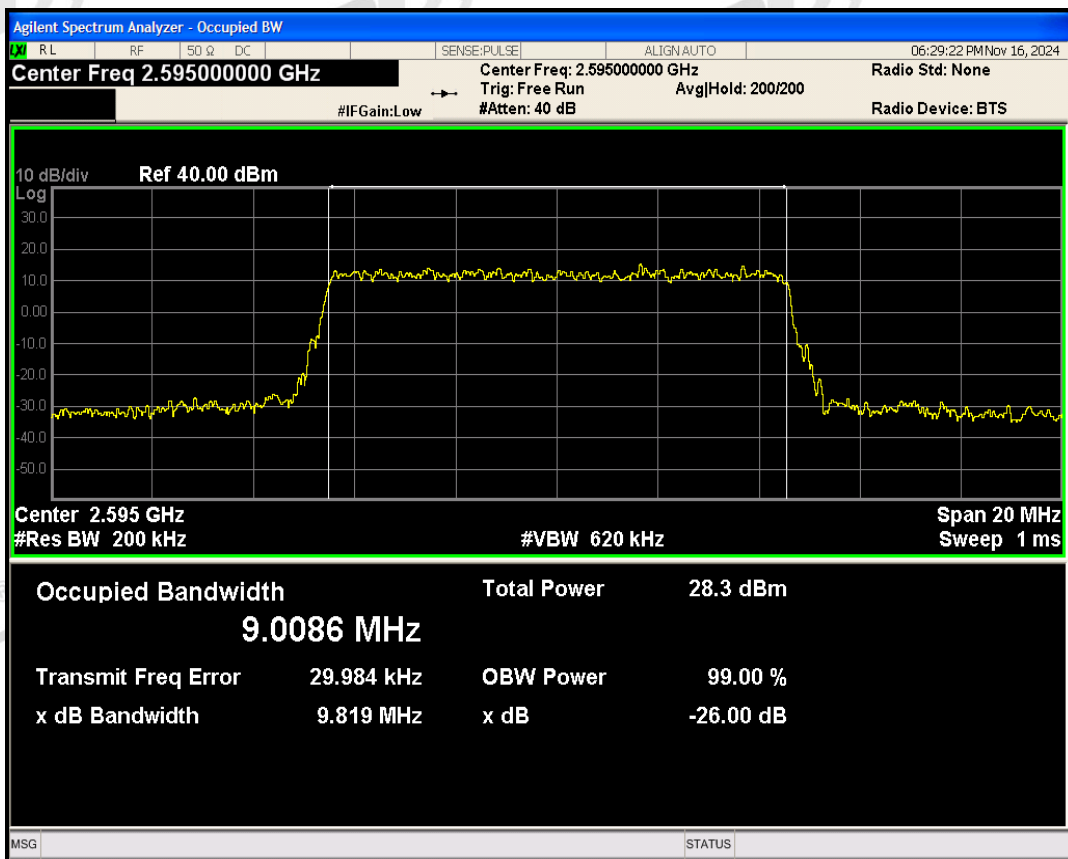
Band38 QPSK BW=5MHz Channel=38000 RB Size=25 Position=#0



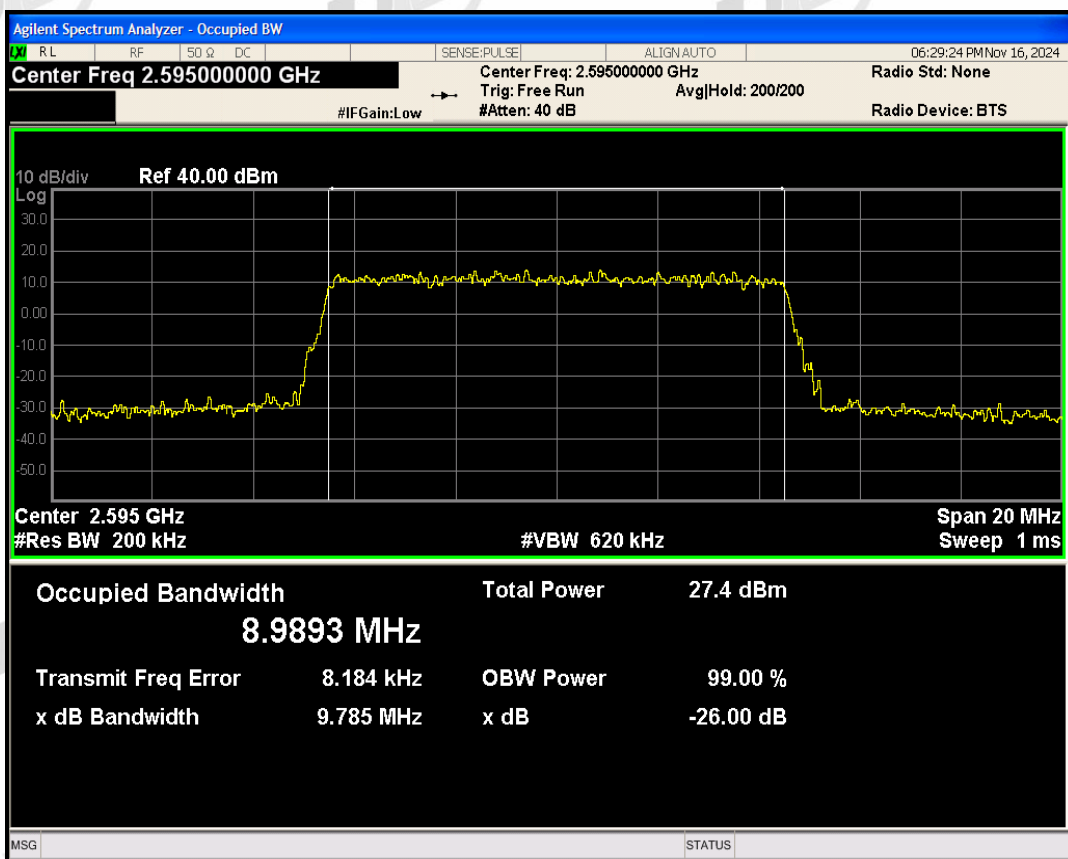
Band38 QAM16 BW=5MHz Channel=38000 RB Size=25 Position=#0



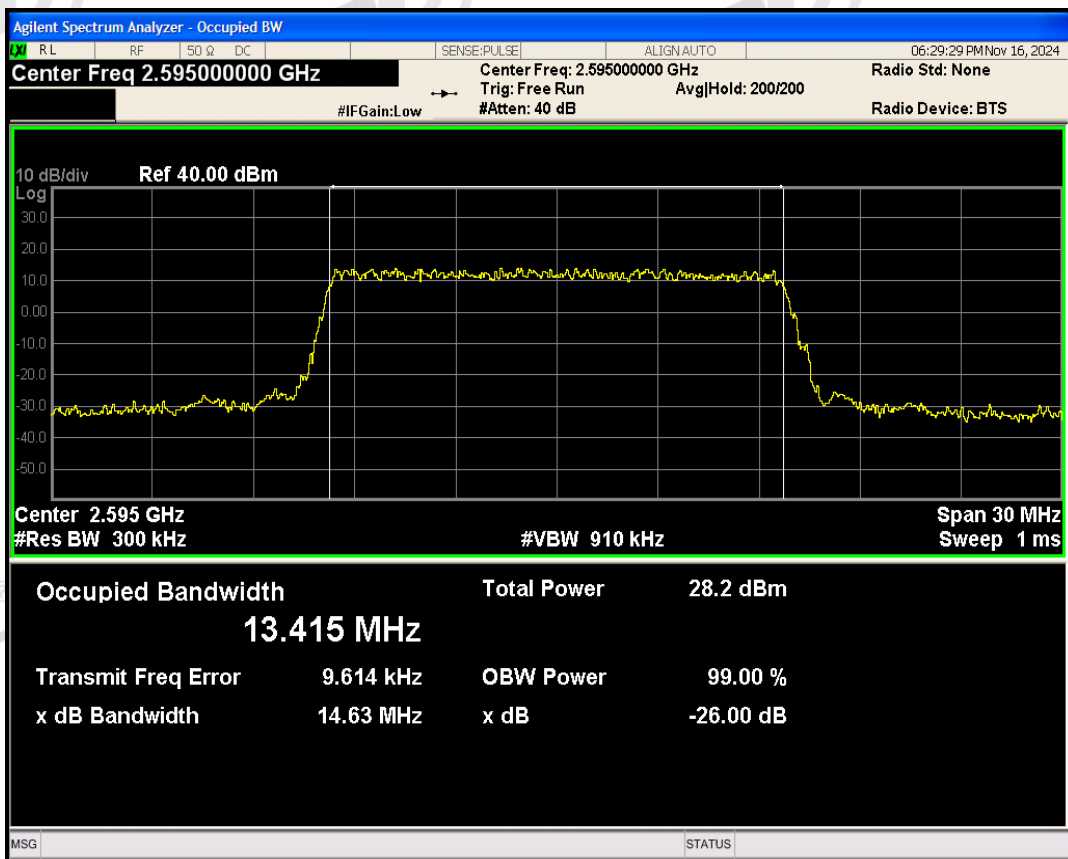
Band38 QPSK BW=10MHz Channel=38000 RB Size=50 Position=#0



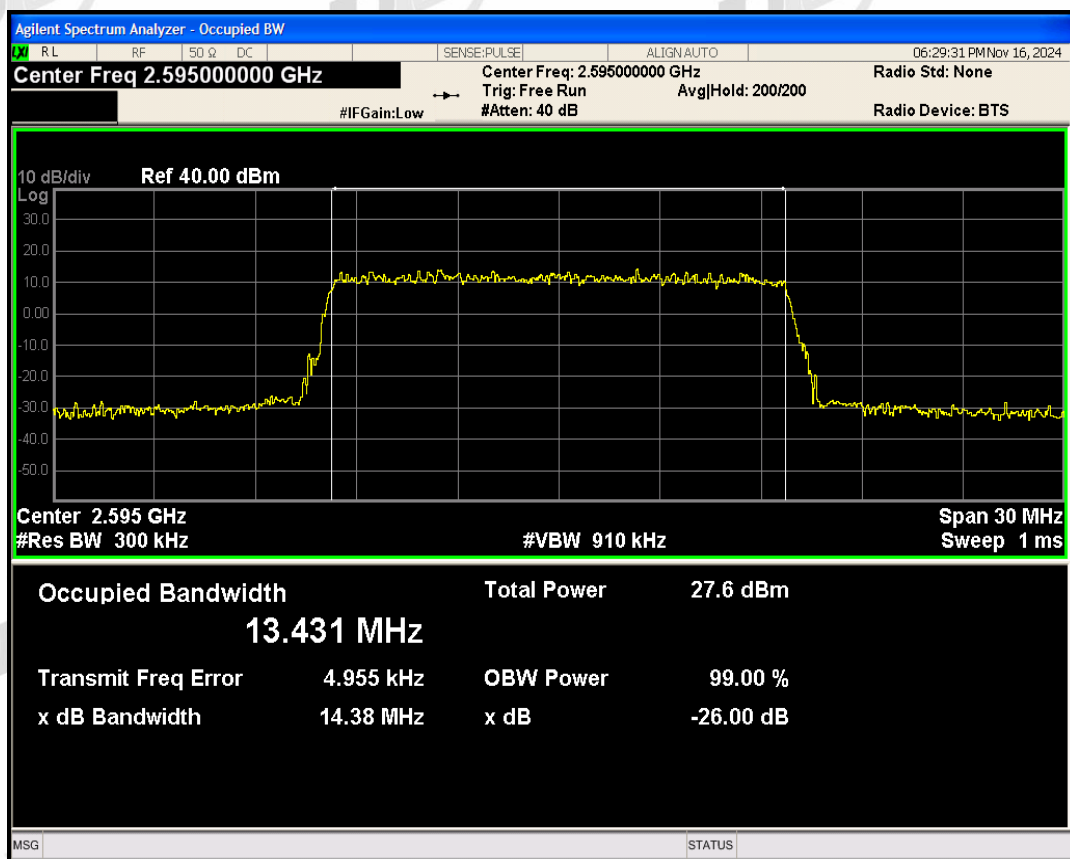
Band38 QAM16 BW=10MHz Channel=38000 RB Size=50 Position=#0



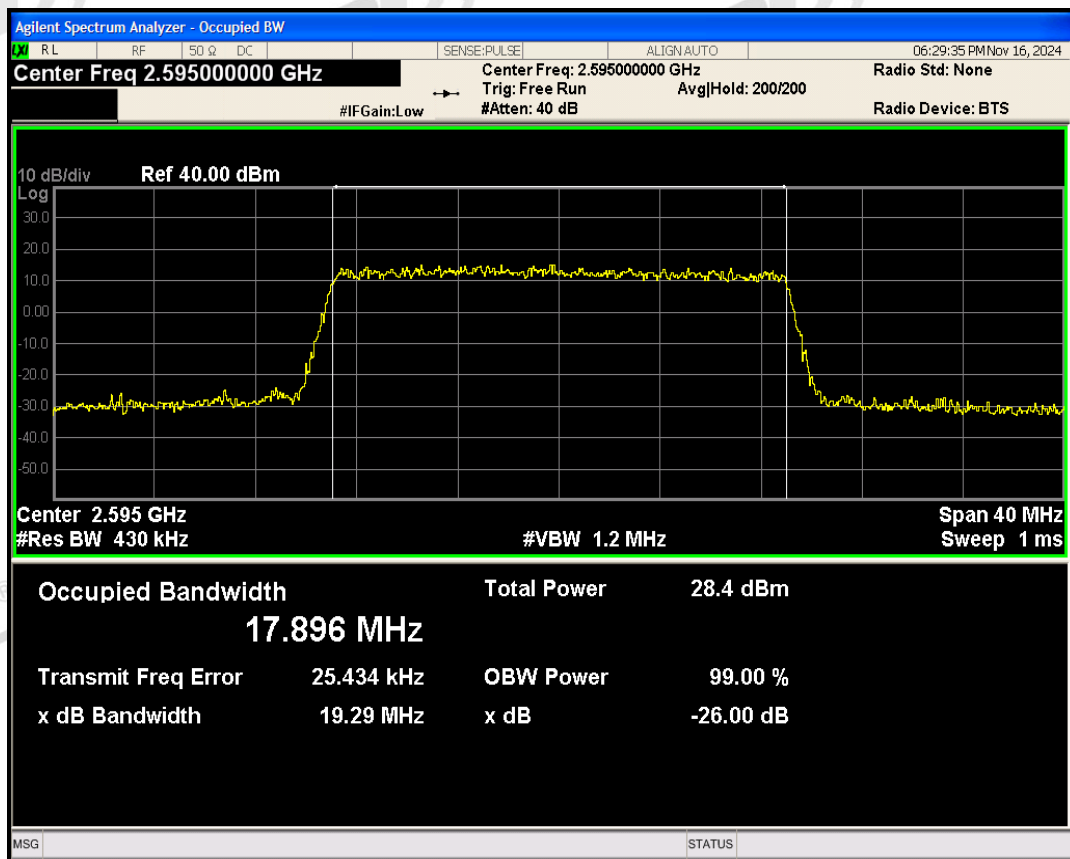
Band38 QPSK BW=15MHz Channel=38000 RB Size=75 Position=#0



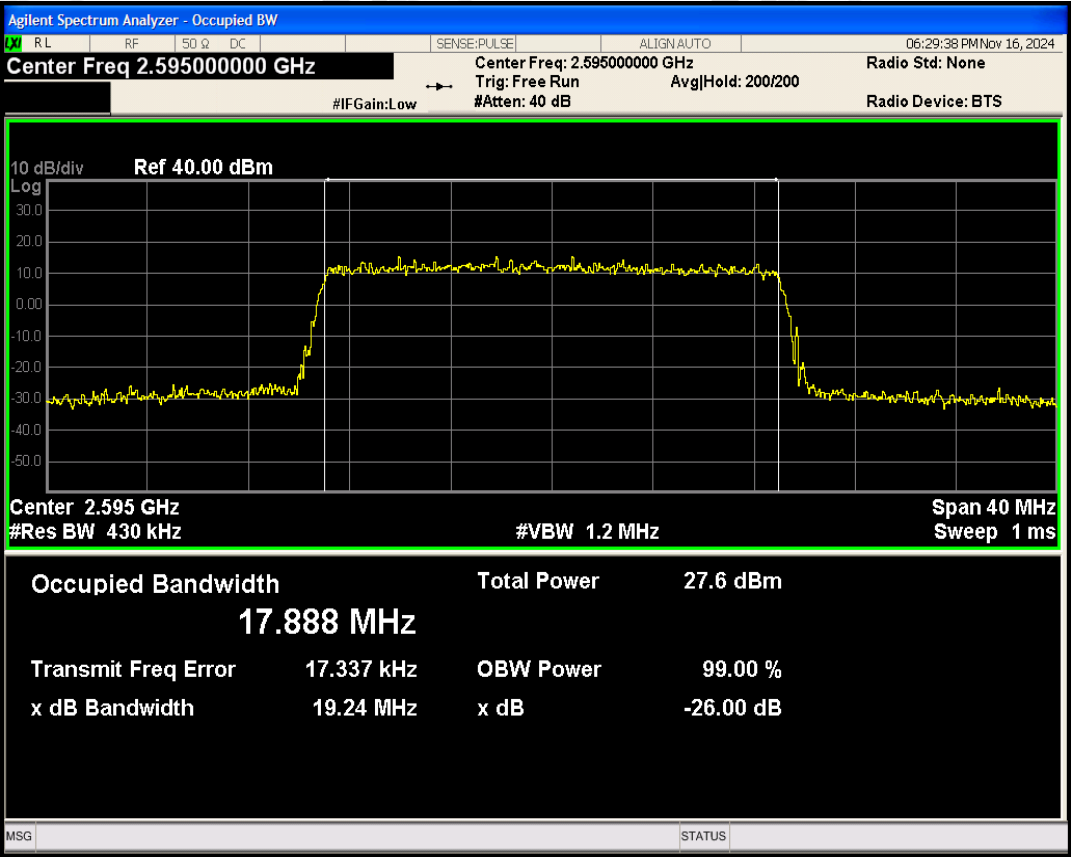
Band38 QAM16 BW=15MHz Channel=38000 RB Size=75 Position=#0



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



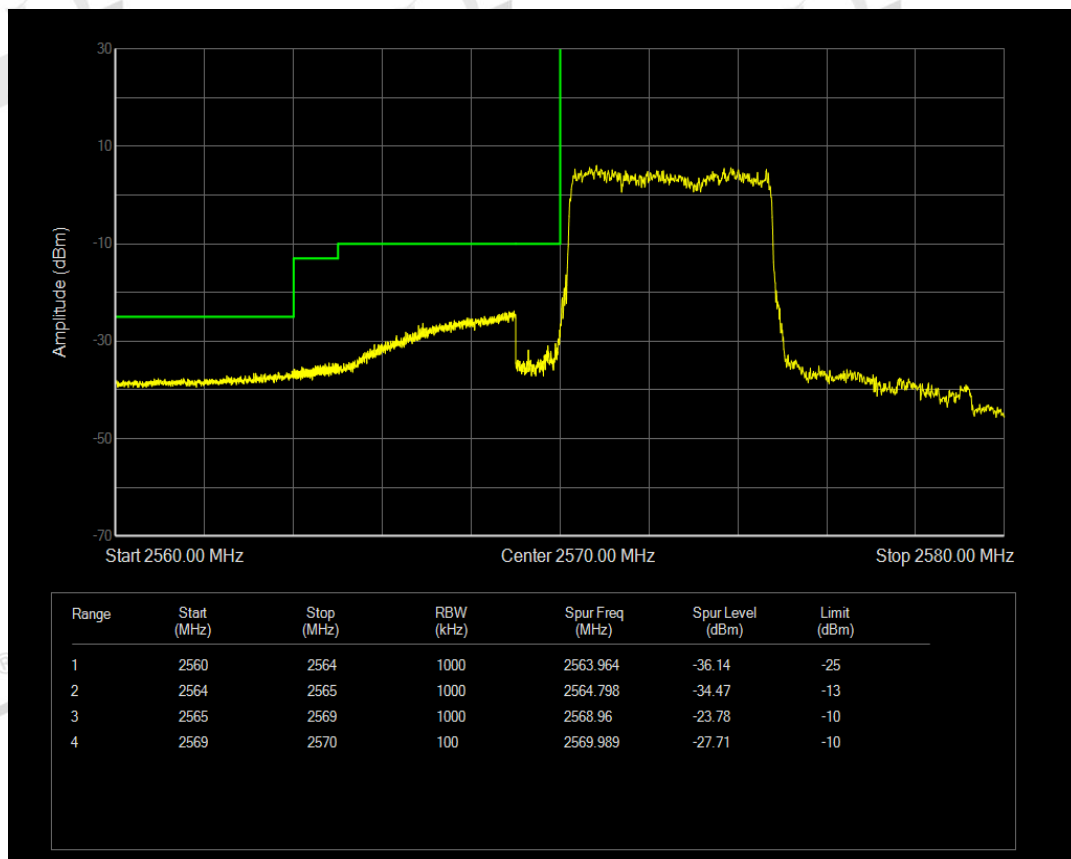
Band38 QAM16 BW=20MHz Channel=38000 RB Size=100 Position=#0



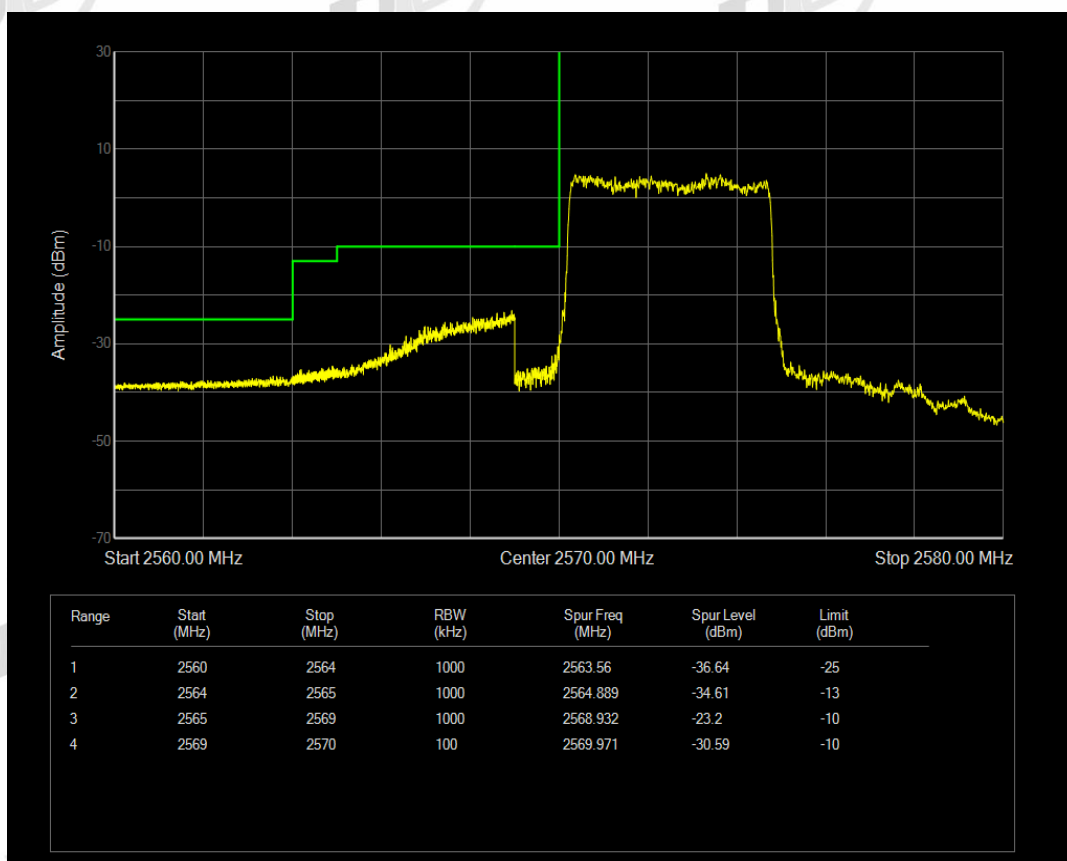
5 Band edge

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	2563.96	-36.14	-25	PASS
Band38	5	37775	25	#0	QAM16	2563.56	-36.64	-25	PASS
Band38	5	38225	25	#0	QPSK	2626.26	-36.42	-25	PASS
Band38	5	38225	25	#0	QAM16	2626.02	-36.14	-25	PASS
Band38	10	37800	50	#0	QPSK	2559.65	-36.99	-25	PASS
Band38	10	37800	50	#0	QAM16	2559.97	-36.76	-25	PASS
Band38	10	38200	50	#0	QPSK	2630.86	-36.17	-25	PASS
Band38	10	38200	50	#0	QAM16	2630.10	-36.92	-25	PASS
Band38	15	37825	75	#0	QPSK	2554.55	-37.25	-25	PASS
Band38	15	37825	75	#0	QAM16	2554.00	-37.62	-25	PASS
Band38	15	38175	75	#0	QPSK	2635.30	-36.54	-25	PASS
Band38	15	38175	75	#0	QAM16	2635.29	-36.65	-25	PASS
Band38	20	37850	100	#0	QPSK	2545.31	-37.93	-25	PASS
Band38	20	37850	100	#0	QAM16	2547.67	-37.95	-25	PASS
Band38	20	38150	100	#0	QPSK	2640.22	-37.29	-25	PASS
Band38	20	38150	100	#0	QAM16	2640.14	-37.35	-25	PASS

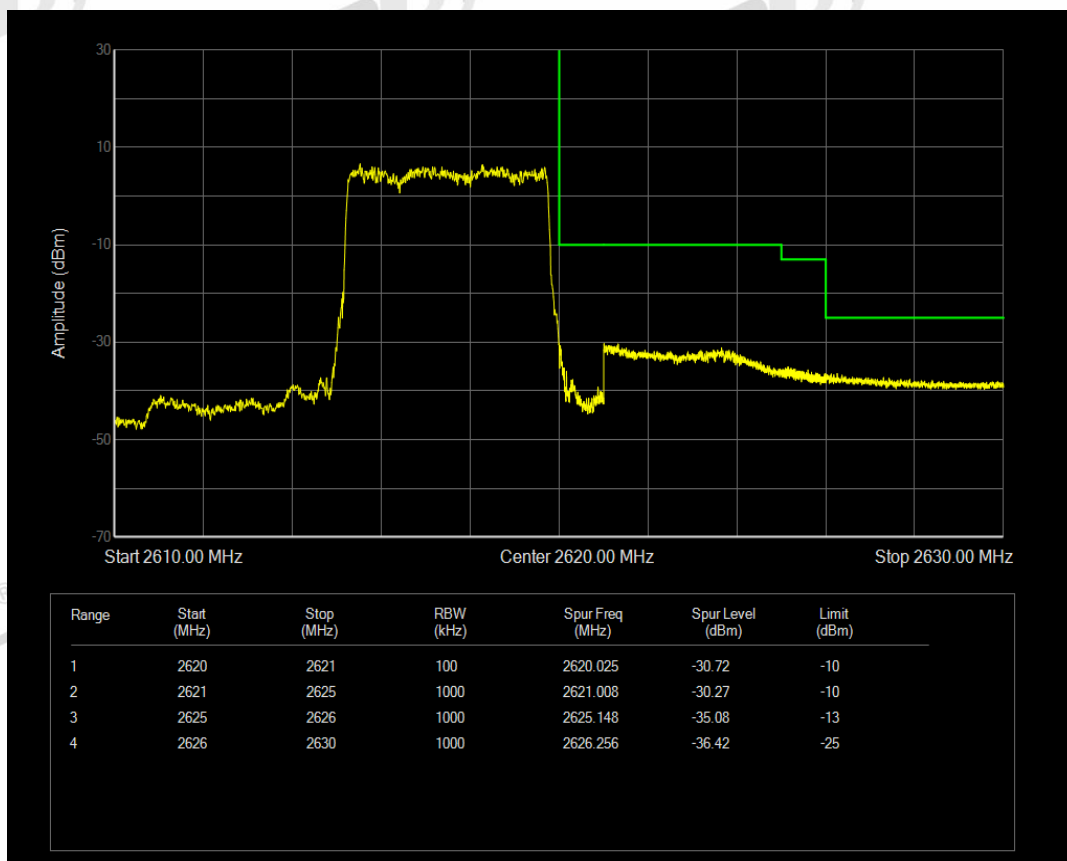
Band38 QPSK BW=5MHz Channel=37775 RB Size=25 Position=#0



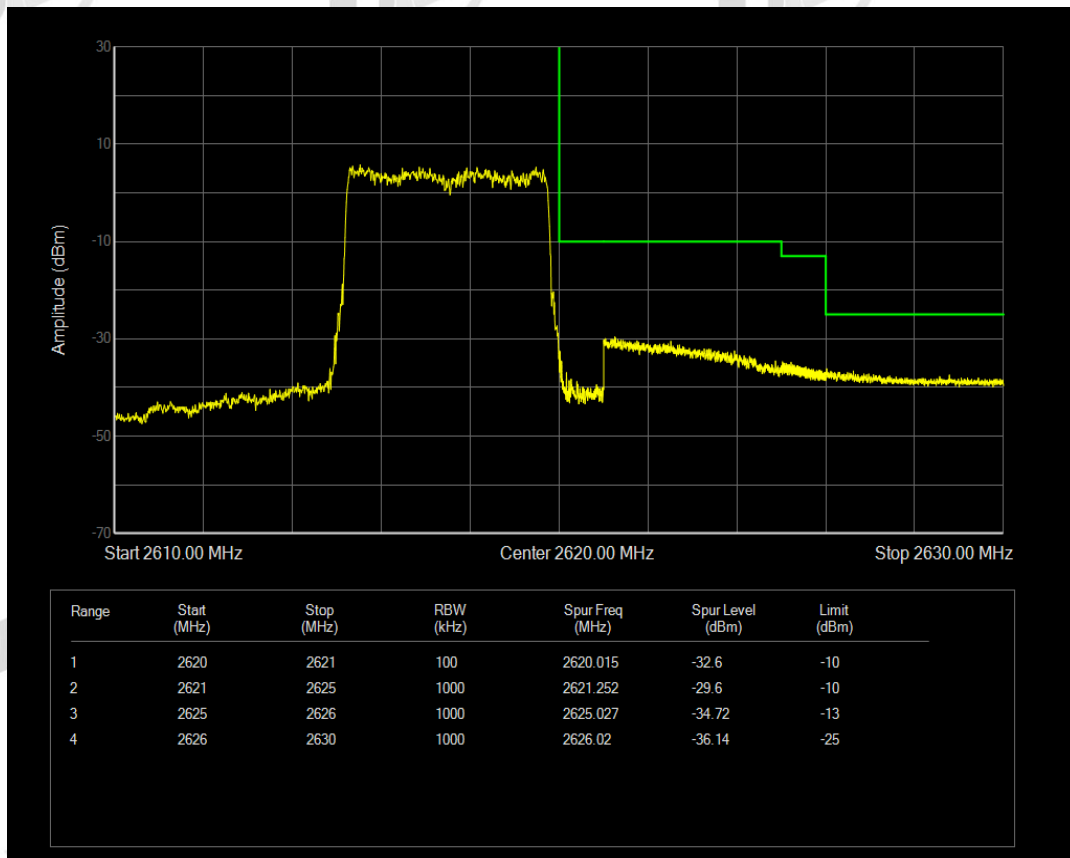
Band38 QAM16 BW=5MHz Channel=37775 RB Size=25 Position=#0



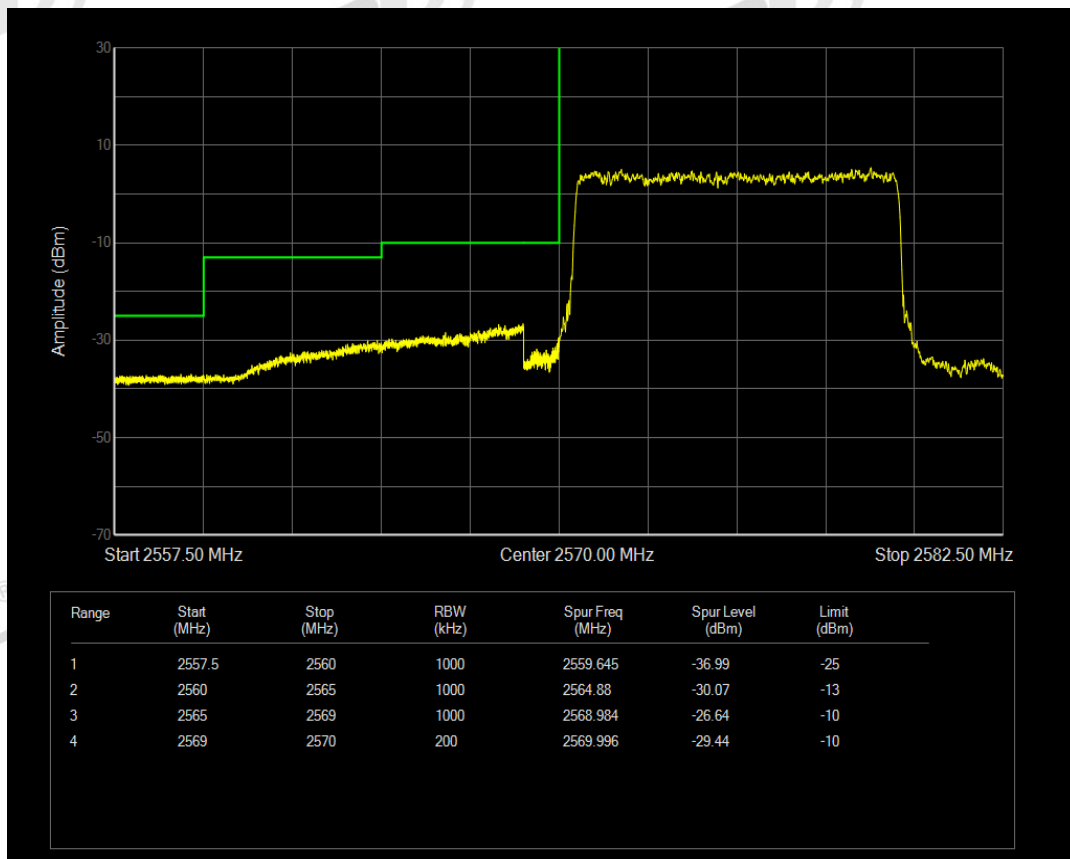
Band38 QPSK BW=5MHz Channel=38225 RB Size=25 Position=#0



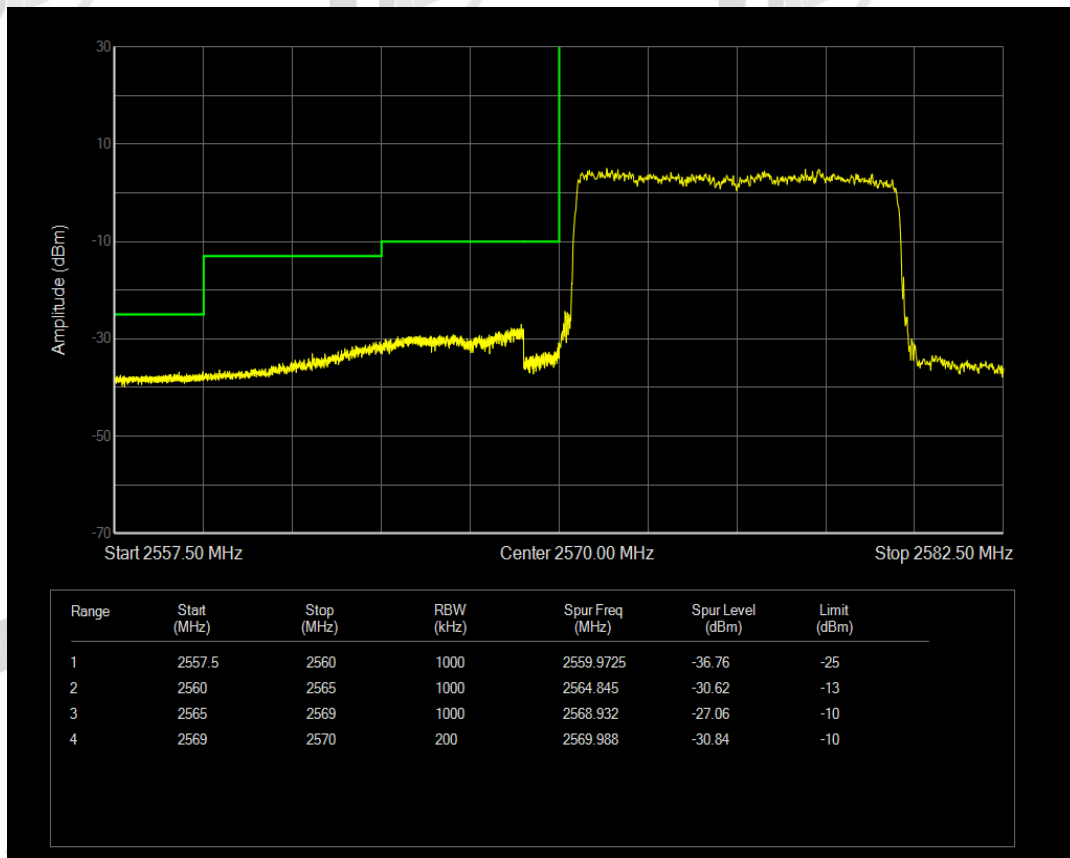
Band38 QAM16 BW=5MHz Channel=38225 RB Size=25 Position=#0



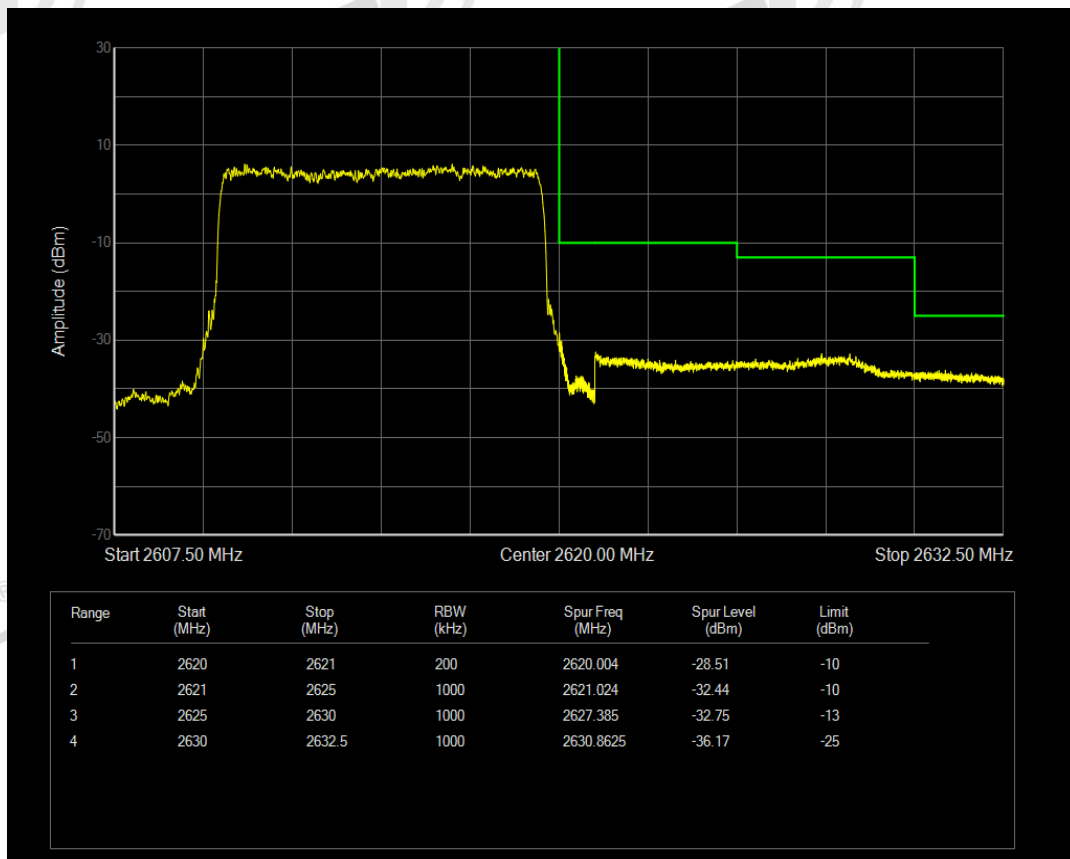
Band38 QPSK BW=10MHz Channel=37800 RB Size=50 Position=#0



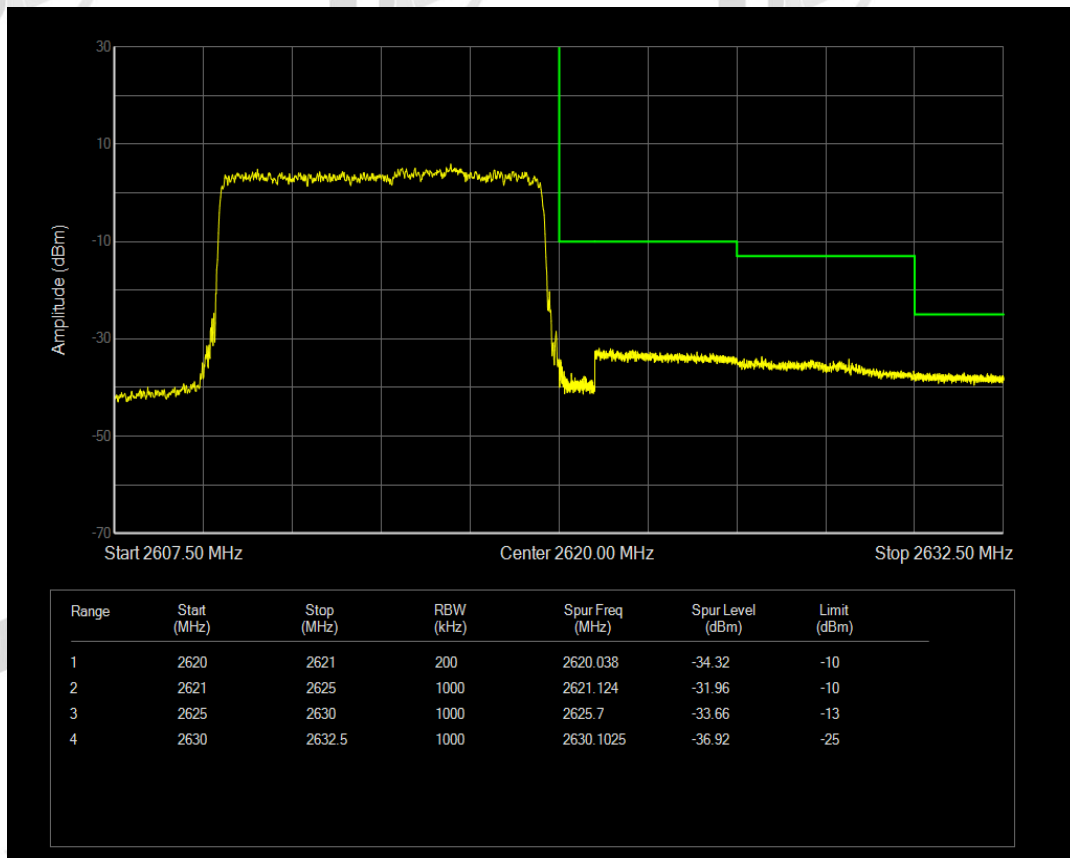
Band38 QAM16 BW=10MHz Channel=37800 RB Size=50 Position=#0



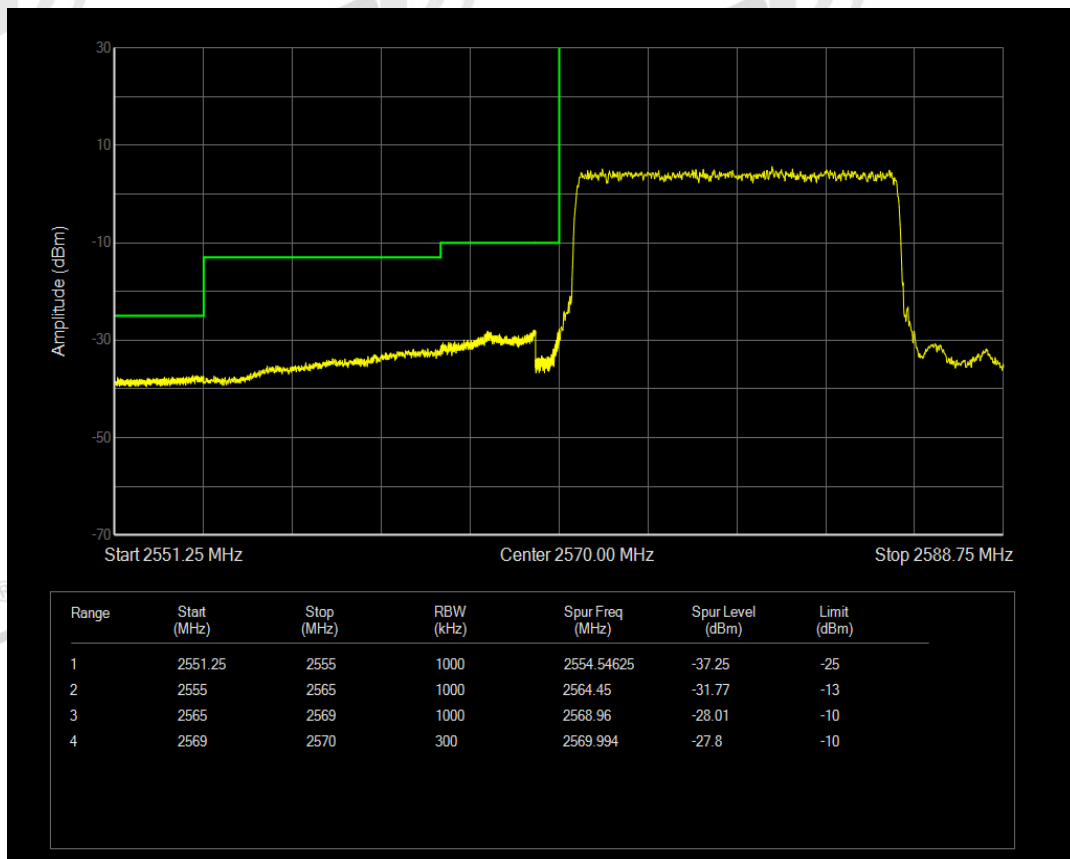
Band38 QPSK BW=10MHz Channel=38200 RB Size=50 Position=#0



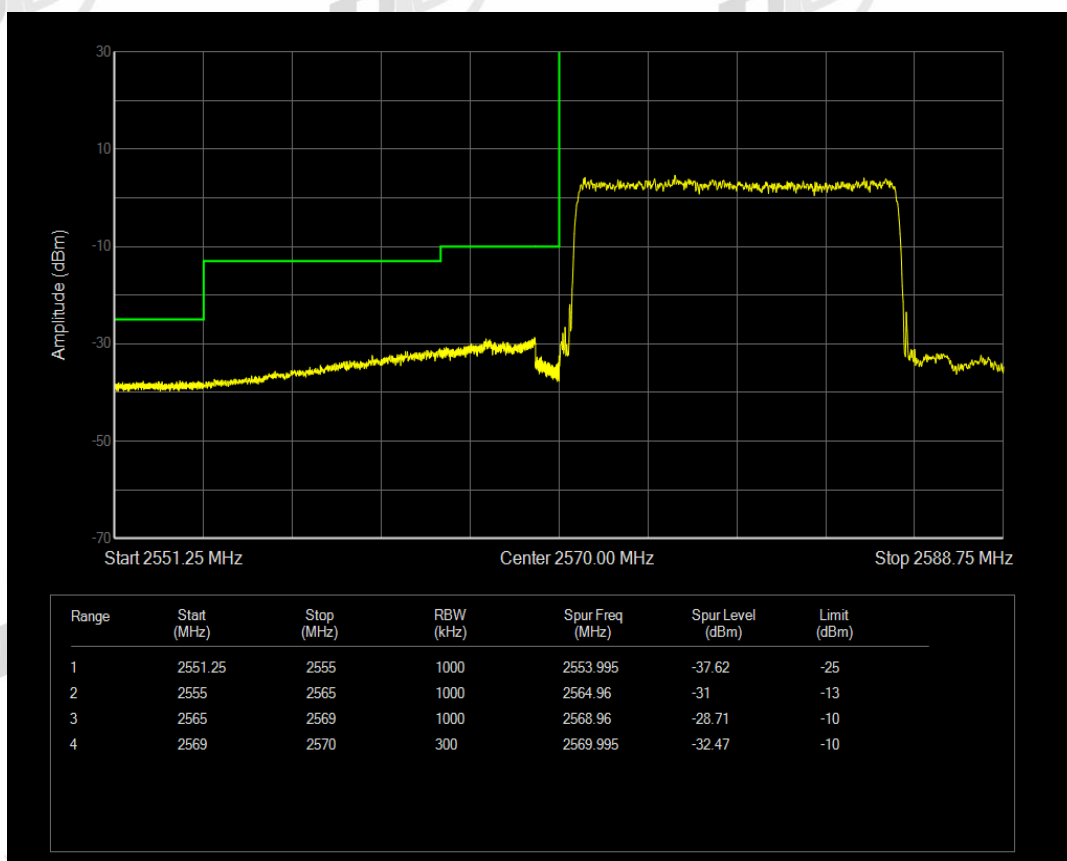
Band38 QAM16 BW=10MHz Channel=38200 RB Size=50 Position=#0



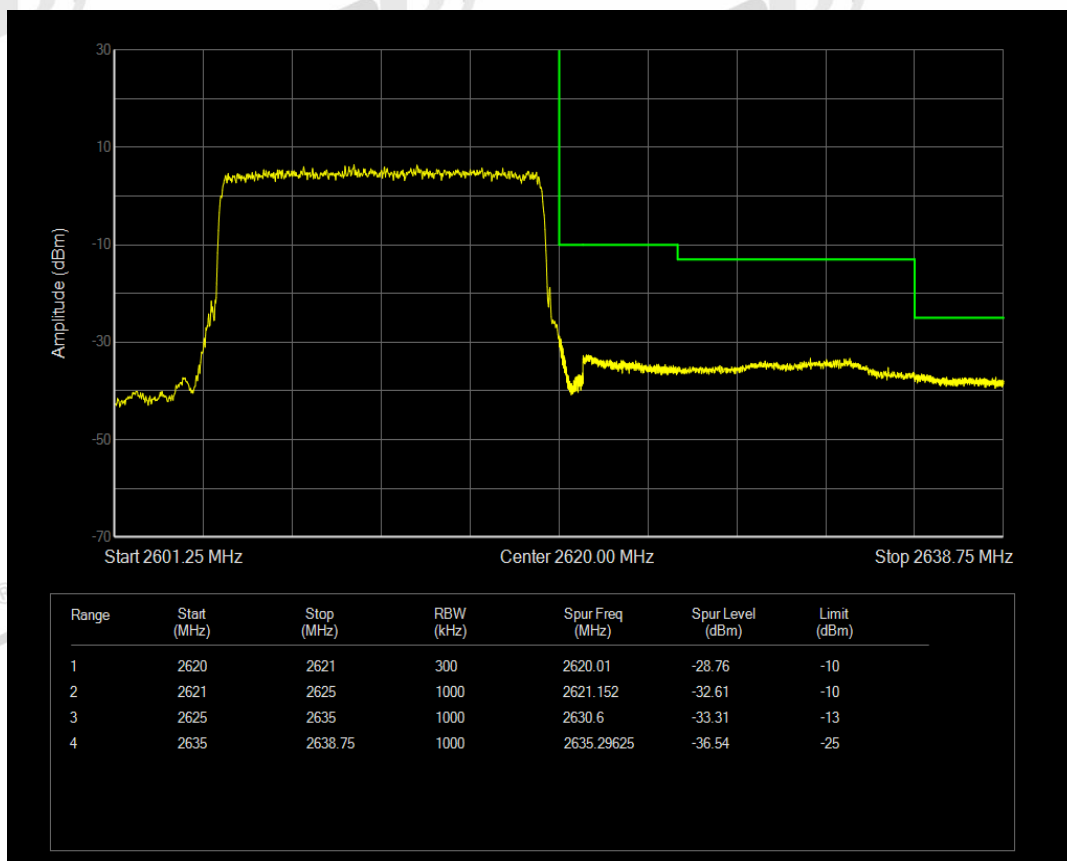
Band38 QPSK BW=15MHz Channel=37825 RB Size=75 Position=#0



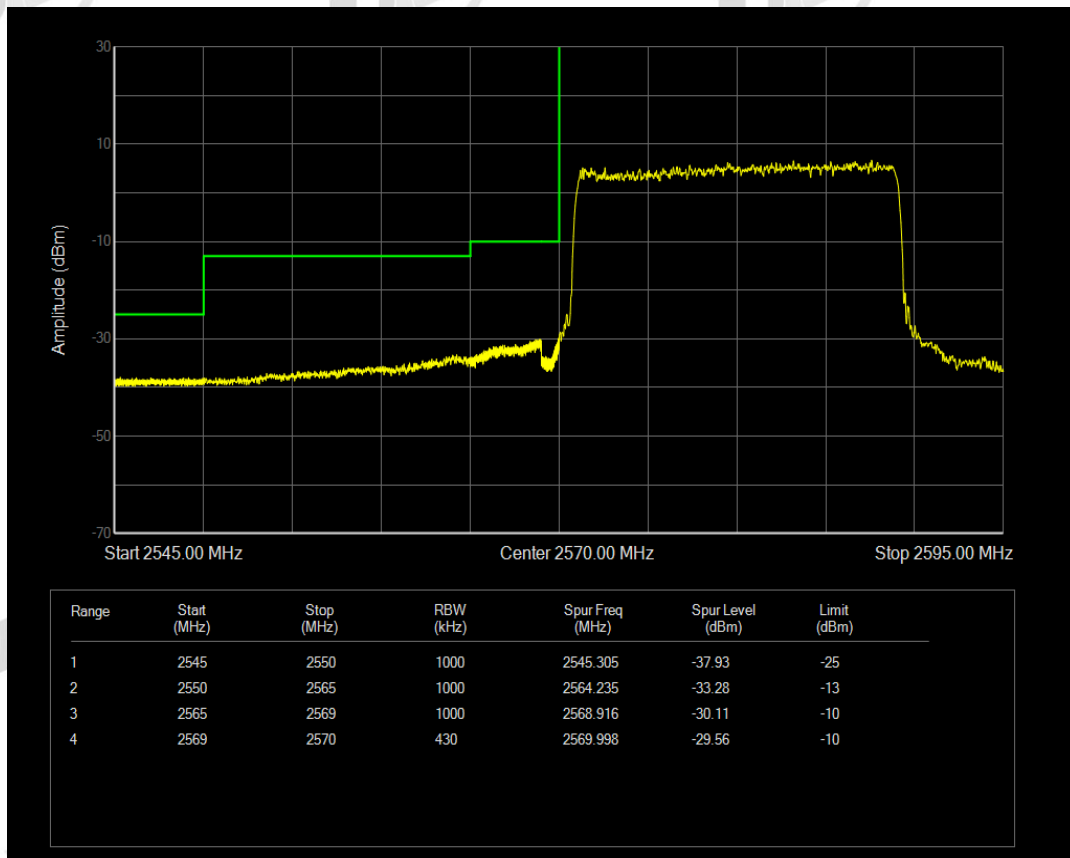
Band38 QAM16 BW=15MHz Channel=37825 RB Size=75 Position=#0



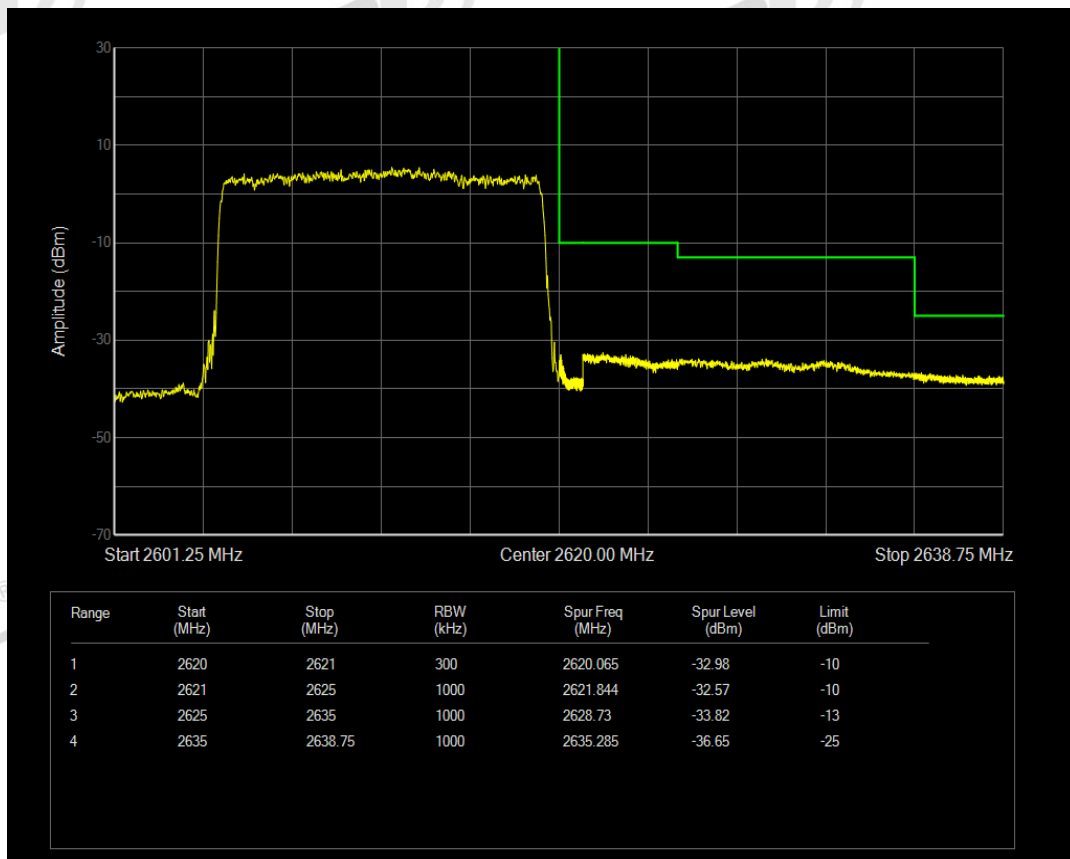
Band38 QPSK BW=15MHz Channel=38175 RB Size=75 Position=#0



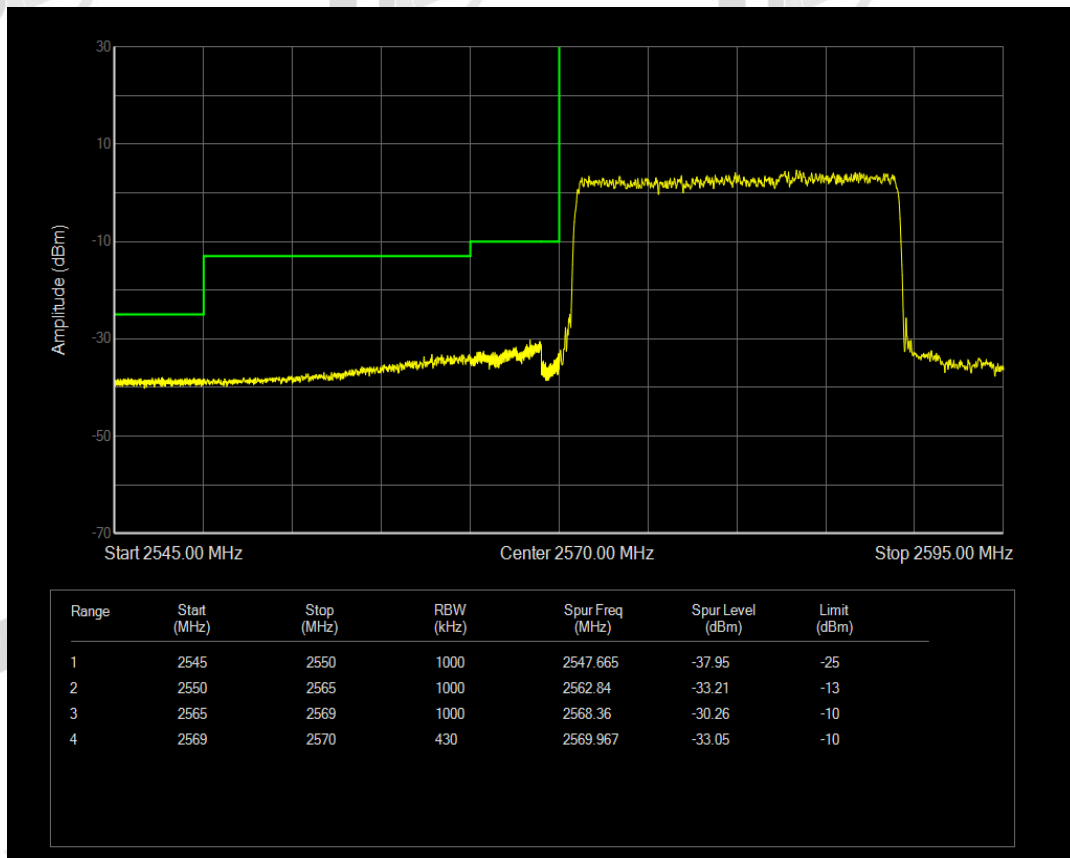
Band38 QPSK BW=20MHz Channel=37850 RB Size=100 Position=#0



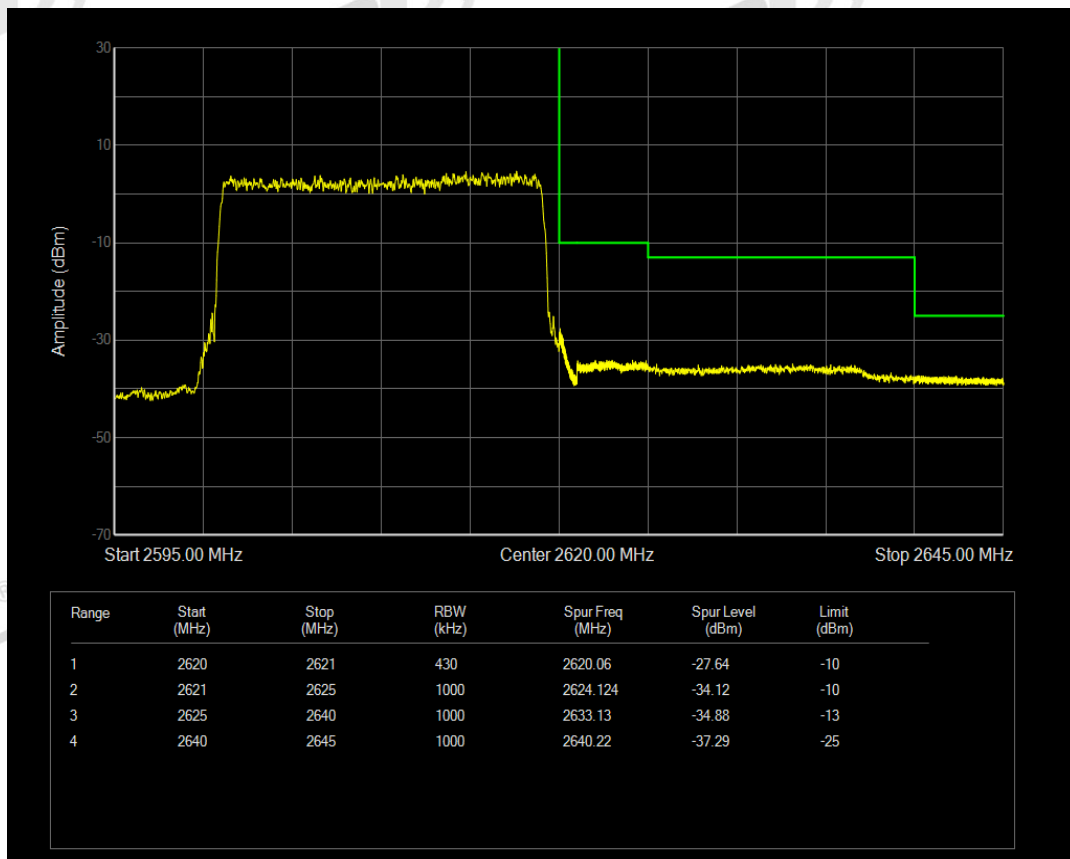
Band38 QAM16 BW=15MHz Channel=38175 RB Size=75 Position=#0



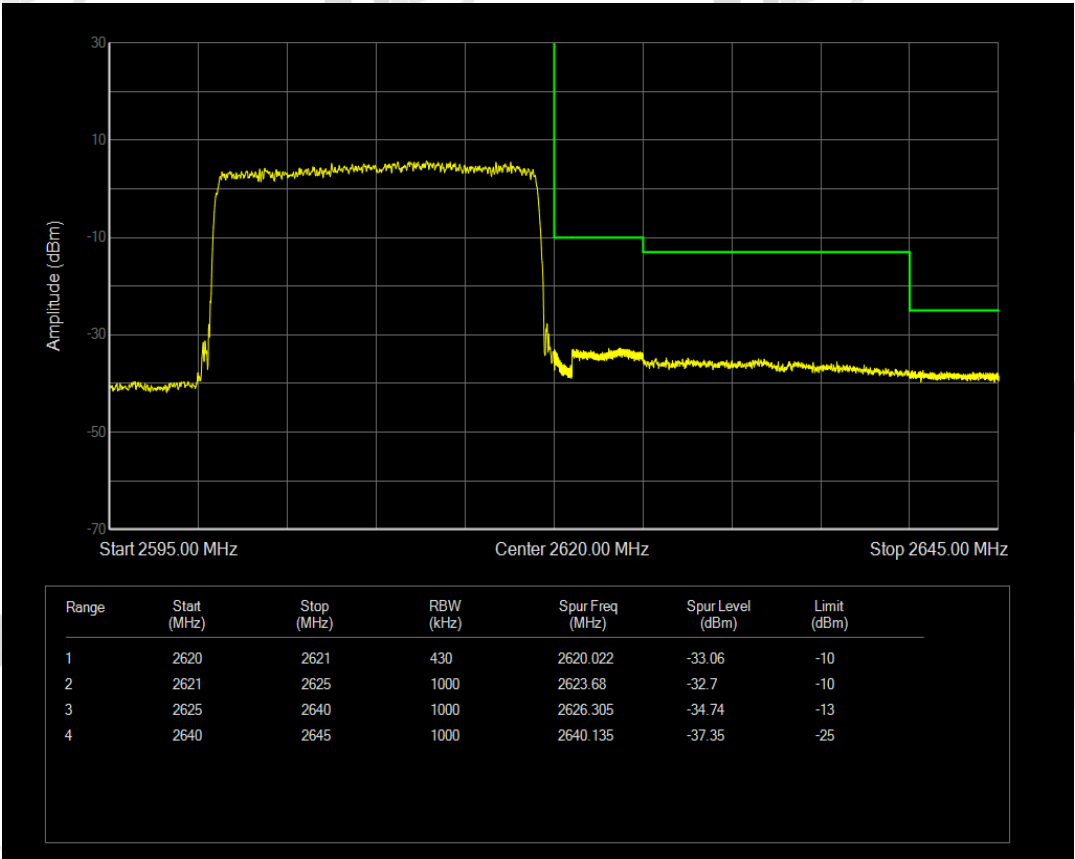
Band38 QAM16 BW=20MHz Channel=37850 RB Size=100 Position=#0



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



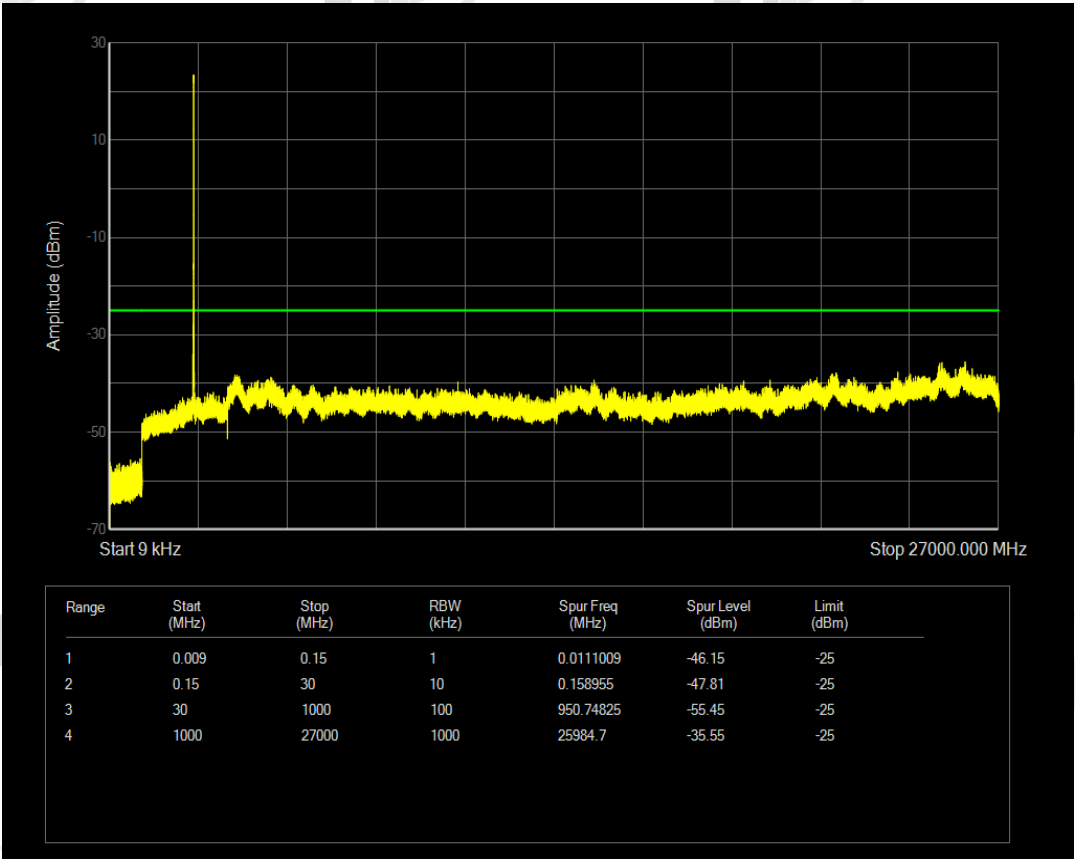
Band38 QAM16 BW=20MHz Channel=38150 RB Size=100 Position=#0



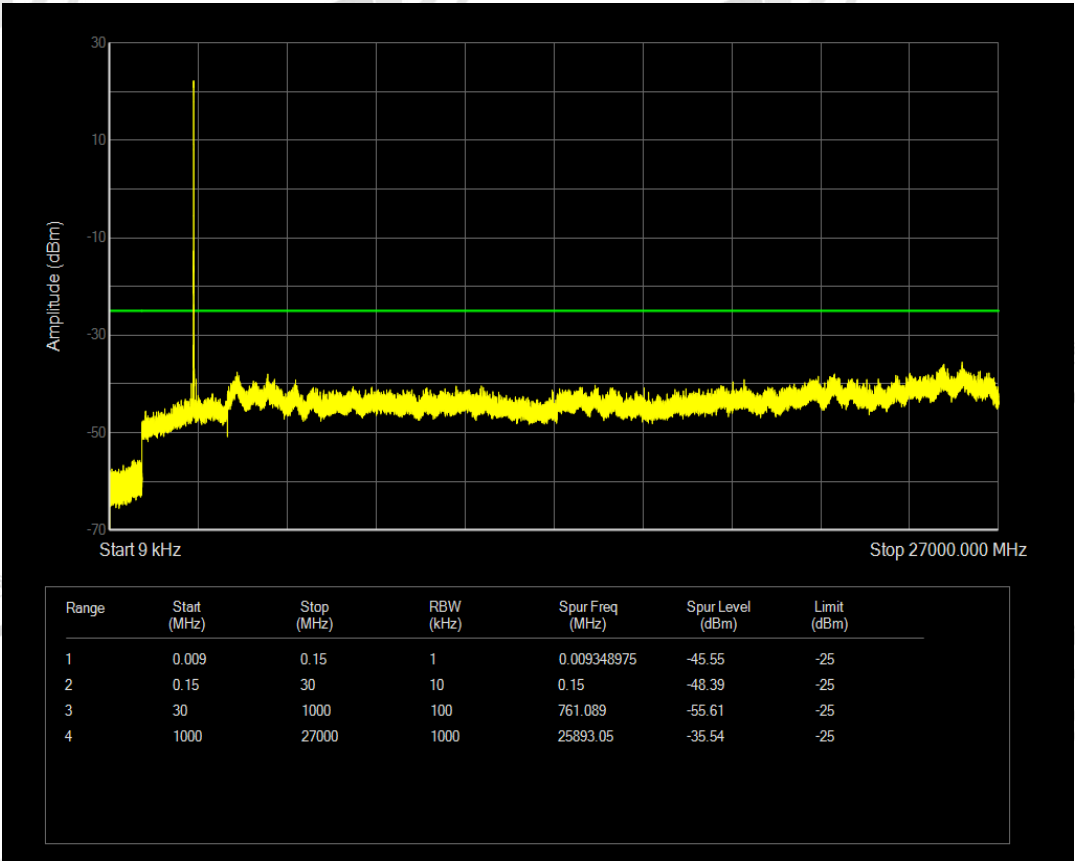
6 Out-of-band emissions

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	25984.7	-35.55	-25	PASS
Band38	5	37775	25	#0	QAM16	25893.05	-35.54	-25	PASS
Band38	5	38225	25	#0	QPSK	25328.2	-36.56	-25	PASS
Band38	5	38225	25	#0	QAM16	26174.5	-36.18	-25	PASS
Band38	10	37800	50	#0	QPSK	25444.55	-35.86	-25	PASS
Band38	10	37800	50	#0	QAM16	2663.35	-31.87	-25	PASS
Band38	10	38200	50	#0	QPSK	2515.8	-27.39	-25	PASS
Band38	10	38200	50	#0	QAM16	2707.55	-31.57	-25	PASS
Band38	15	37825	75	#0	QPSK	2688.7	-33.71	-25	PASS
Band38	15	37825	75	#0	QAM16	2493.7	-30.26	-25	PASS
Band38	15	38175	75	#0	QPSK	2710.8	-32.18	-25	PASS
Band38	15	38175	75	#0	QAM16	2500.85	-28.84	-25	PASS
Band38	20	37850	100	#0	QPSK	25375	-35.98	-25	PASS
Band38	20	37850	100	#0	QAM16	2716.65	-35.67	-25	PASS
Band38	20	38150	100	#0	QPSK	2478.1	-35.57	-25	PASS
Band38	20	38150	100	#0	QAM16	2703	-27.81	-25	PASS

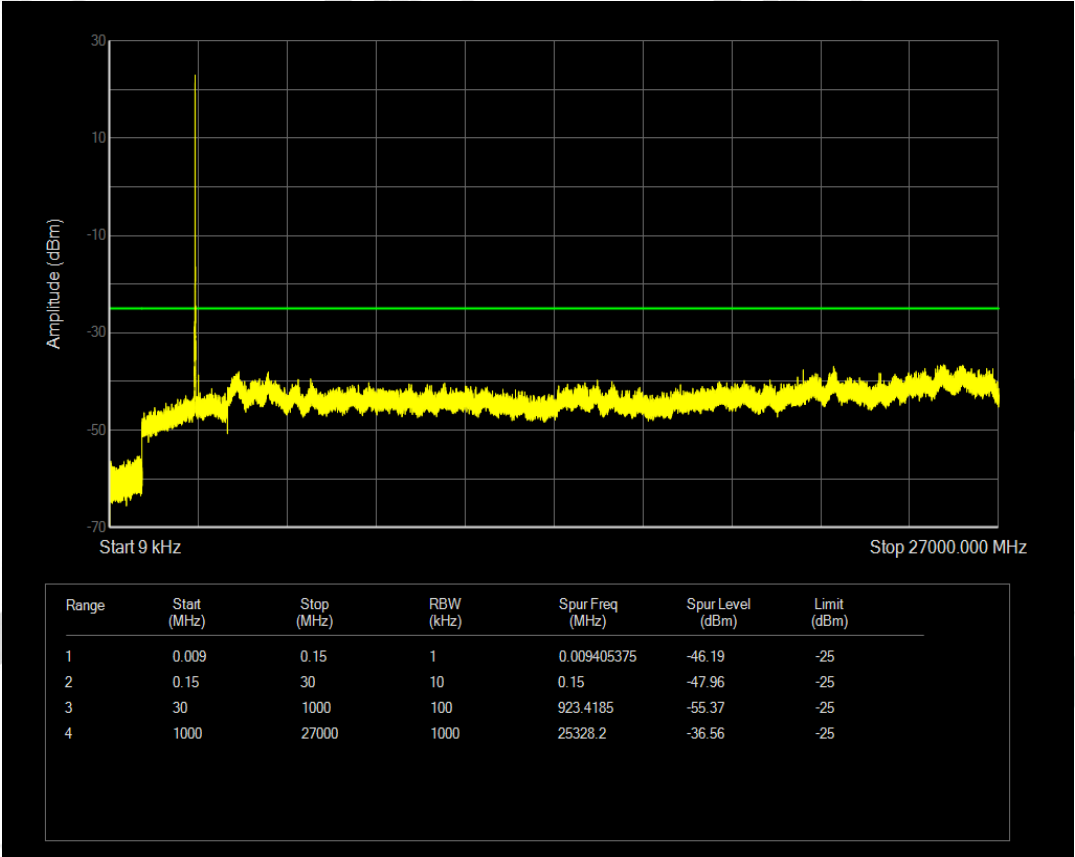
Band38 QPSK BW=5MHz Channel=37775 RB Size=25 Position=#0



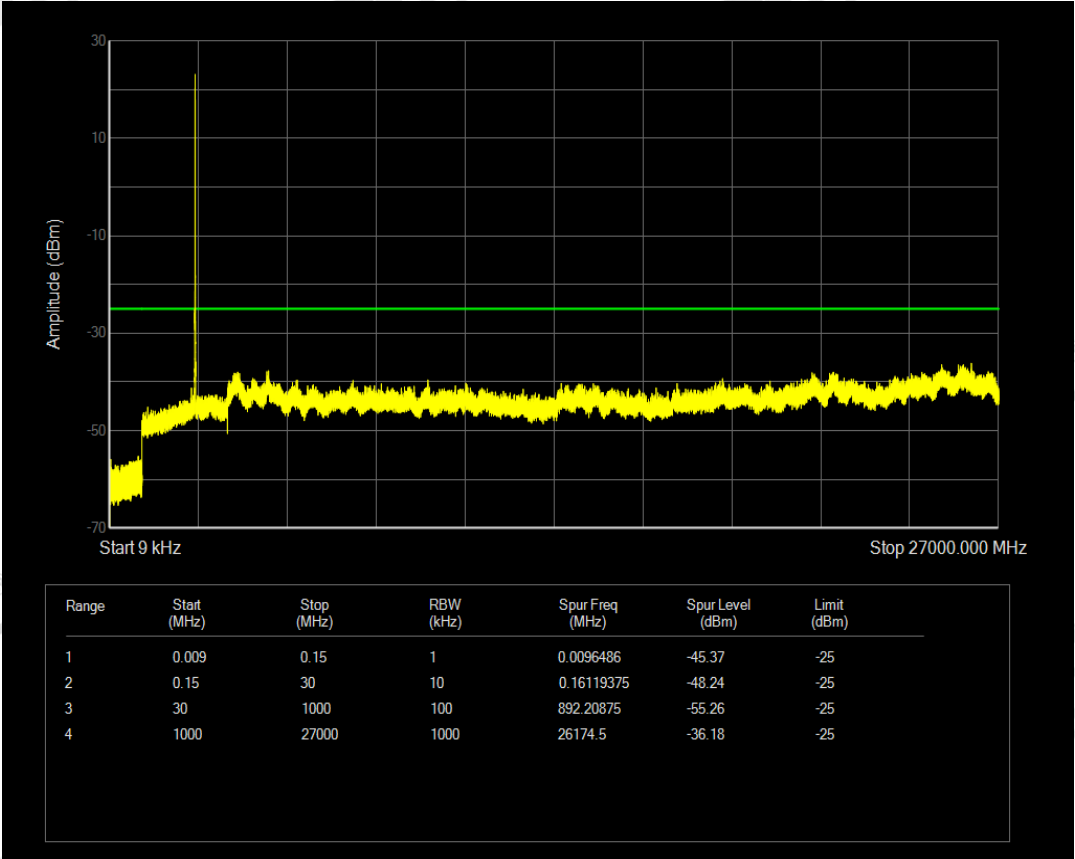
Band38 QAM16 BW=5MHz Channel=37775 RB Size=25 Position=#0



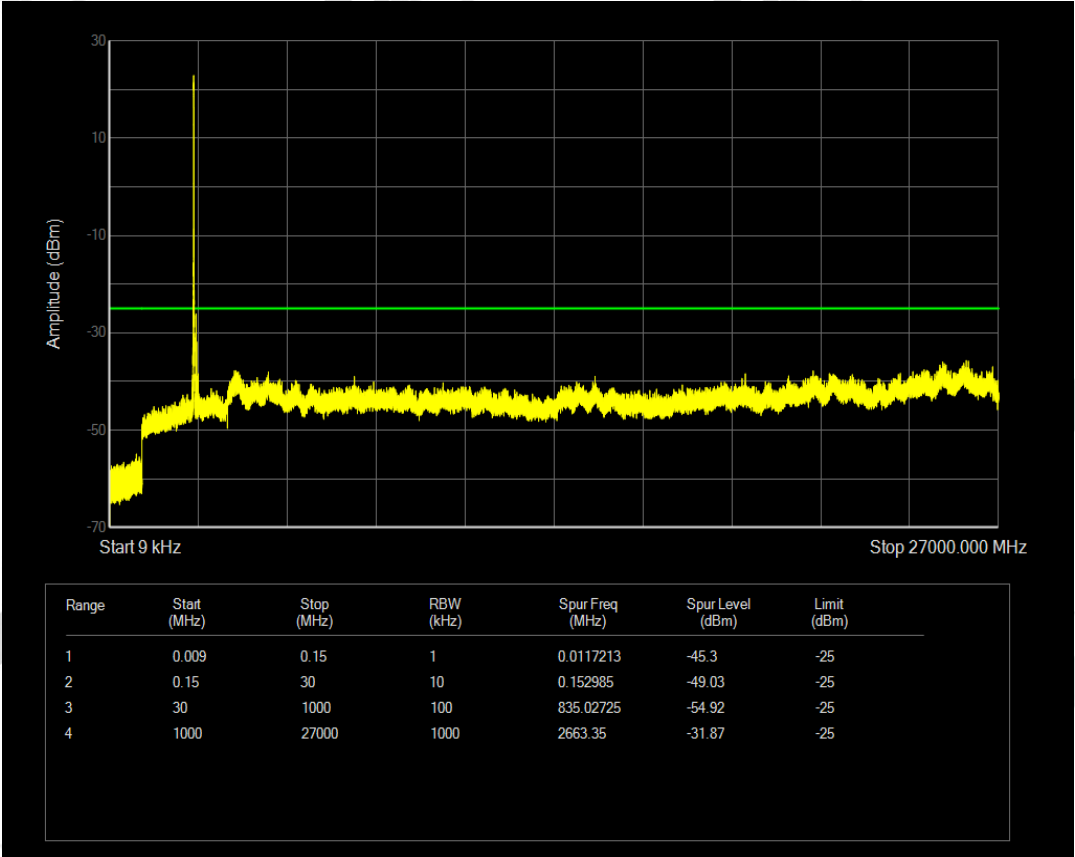
Band38 QPSK BW=5MHz Channel=38225 RB Size=25 Position=#0



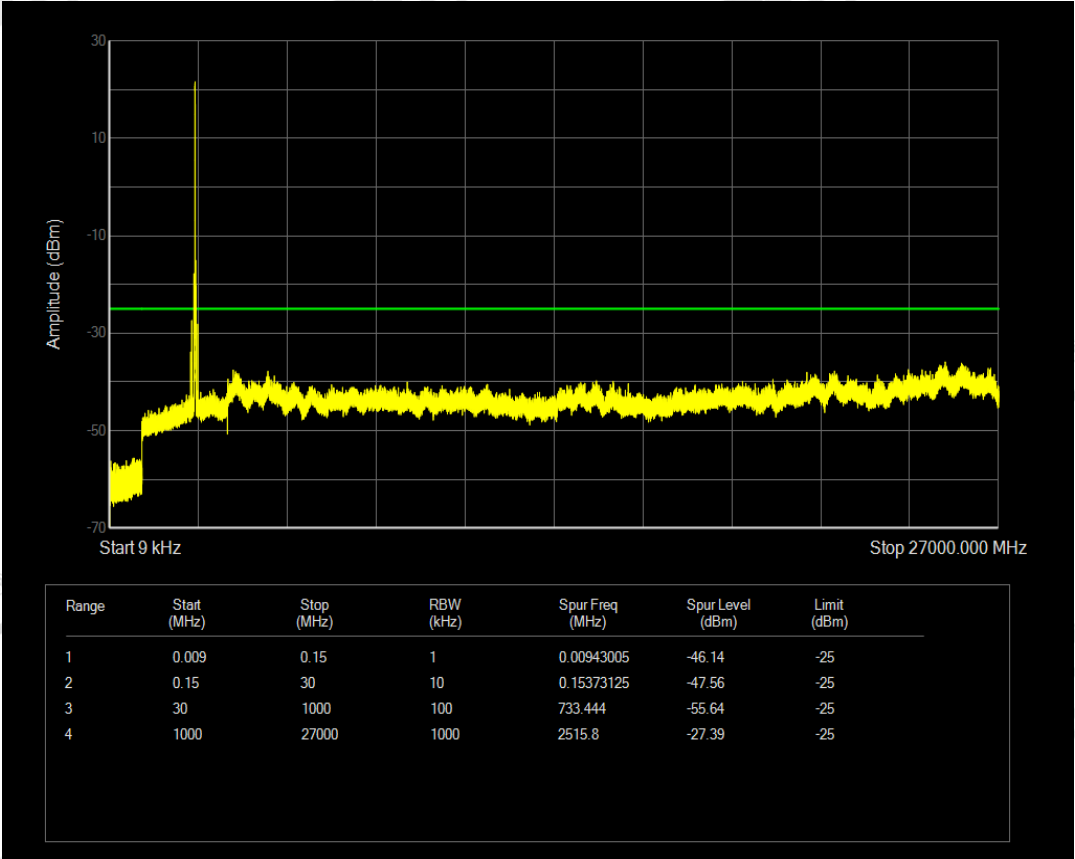
Band38 QAM16 BW=5MHz Channel=38225 RB Size=25 Position=#0



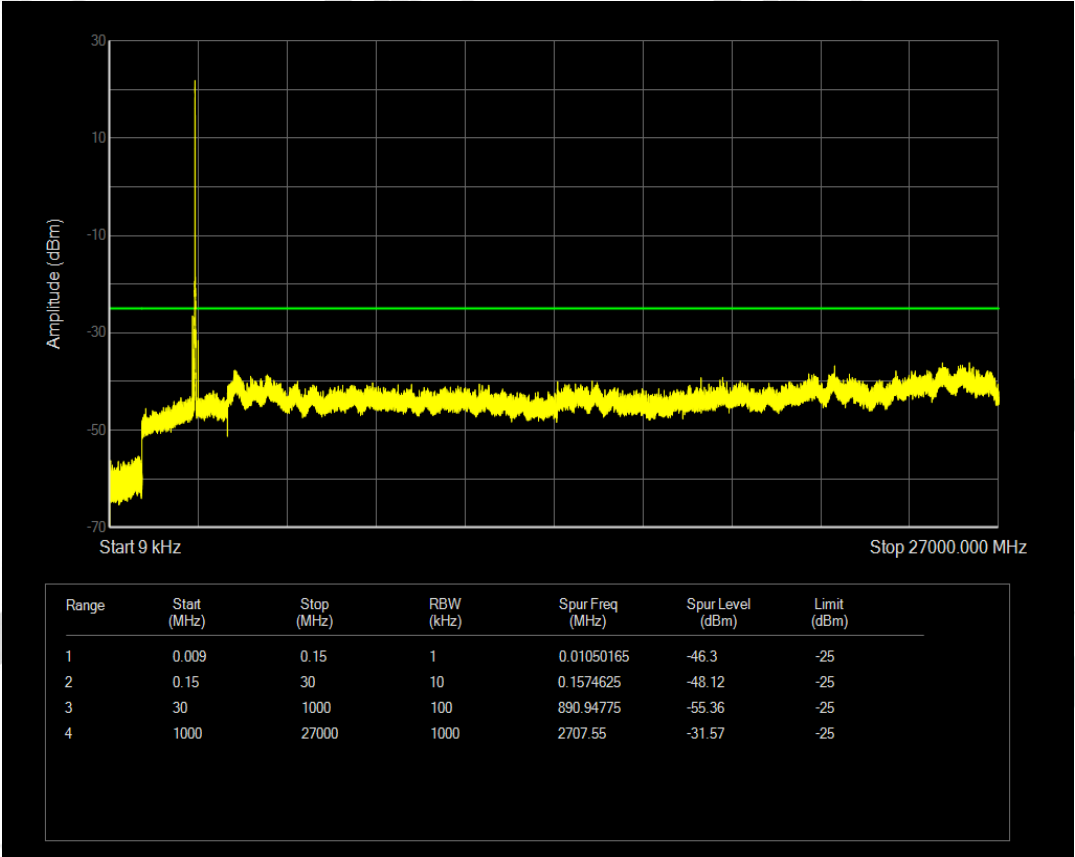
Band38 QAM16 BW=10MHz Channel=37800 RB Size=50 Position=#0



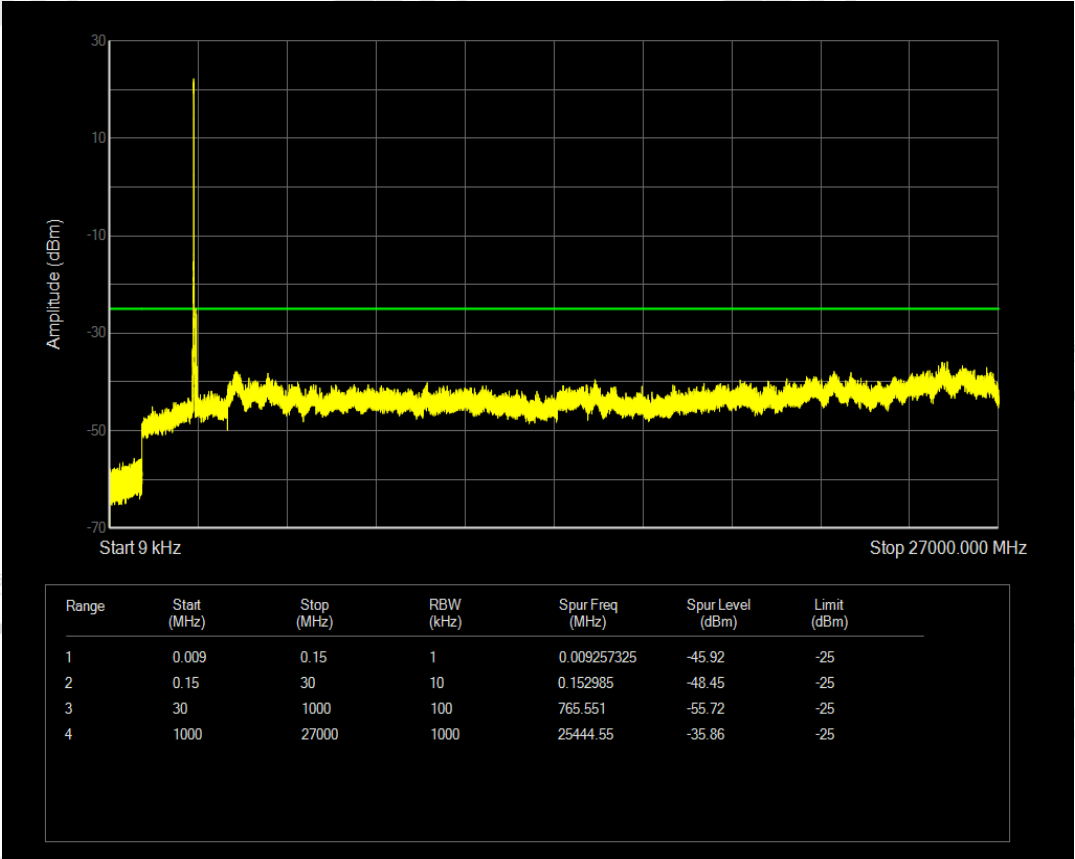
Band38 QPSK BW=10MHz Channel=38200 RB Size=50 Position=#0



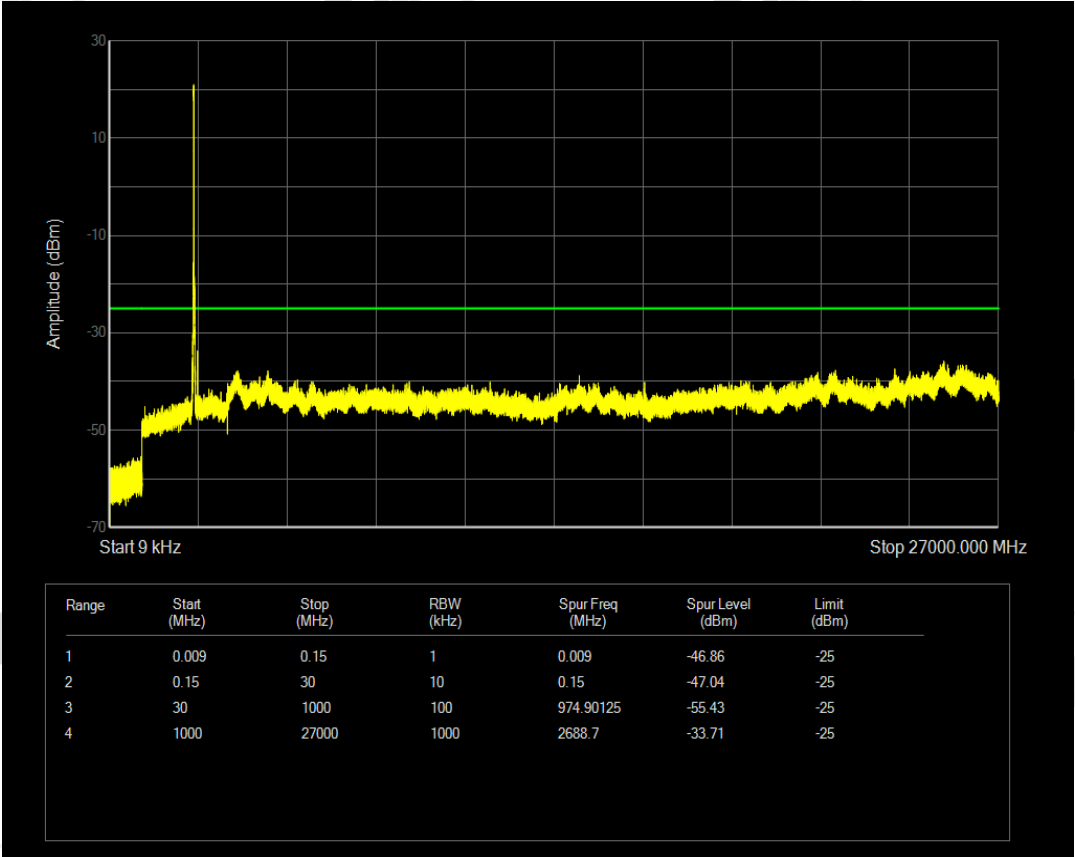
Band38 QAM16 BW=10MHz Channel=38200 RB Size=50 Position=#0



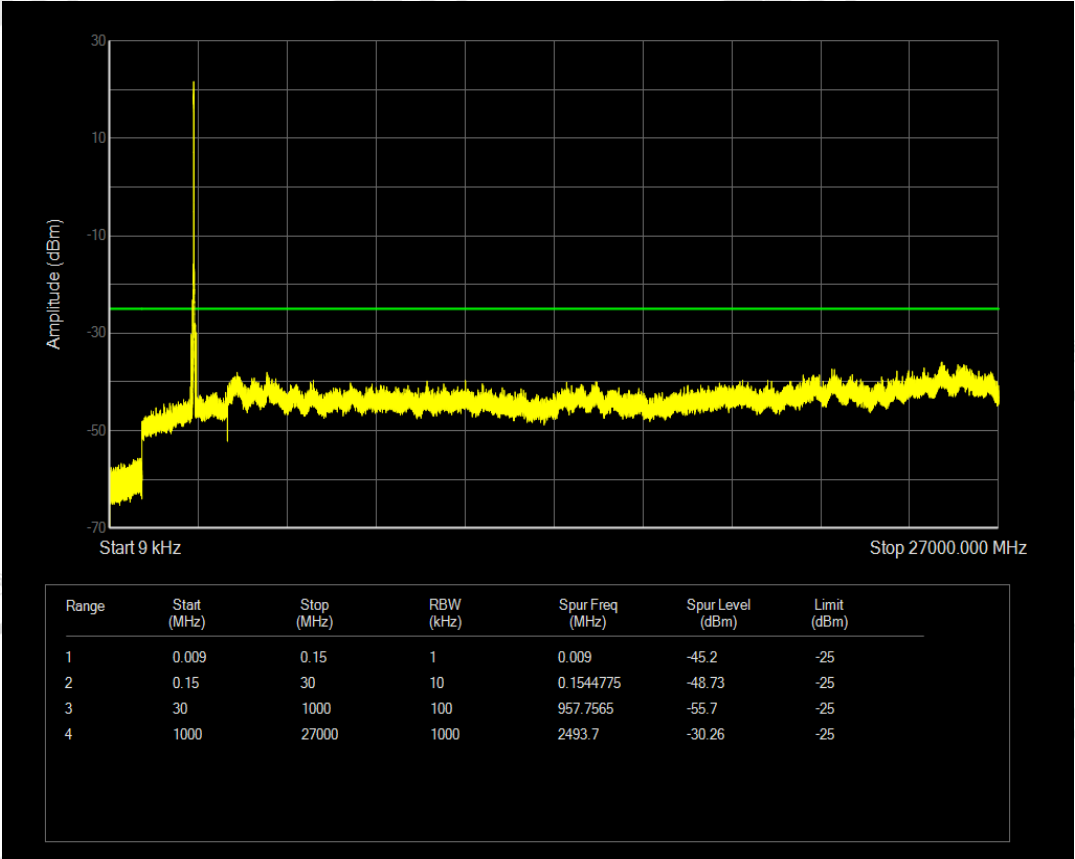
Band38 QPSK BW=10MHz Channel=37800 RB Size=50 Position=#0



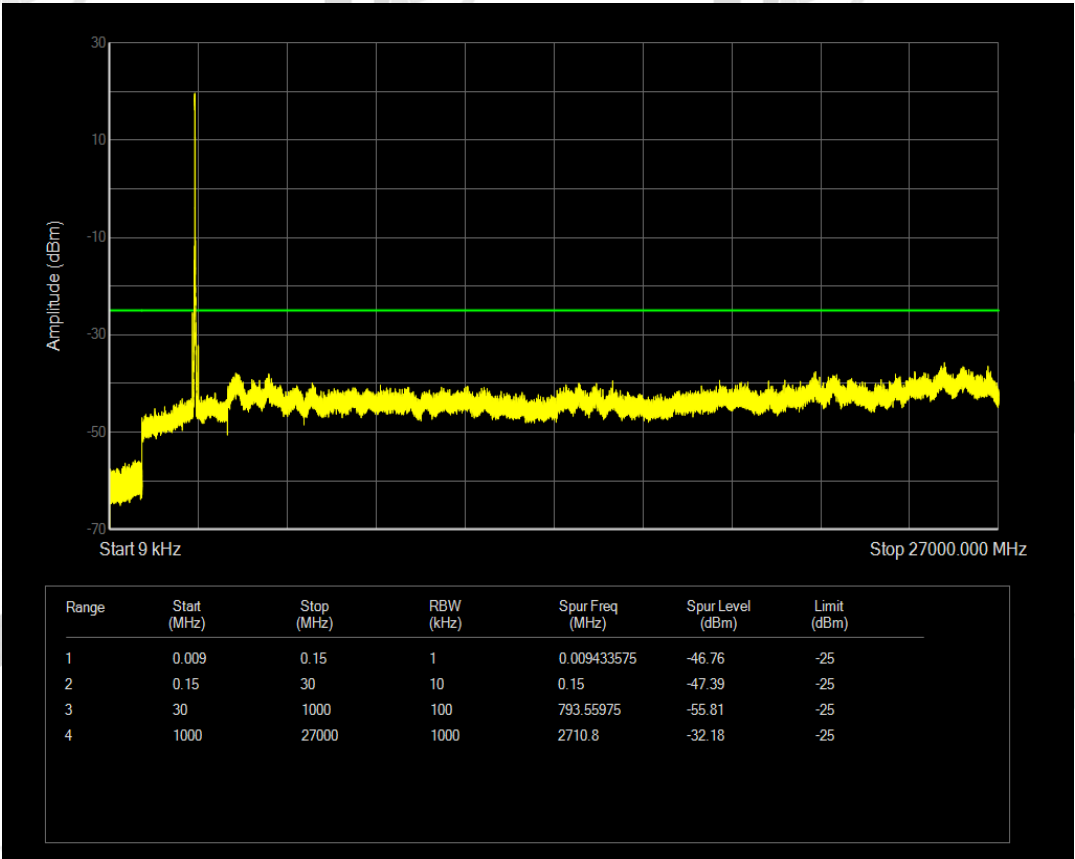
Band38 QPSK BW=15MHz Channel=37825 RB Size=75 Position=#0



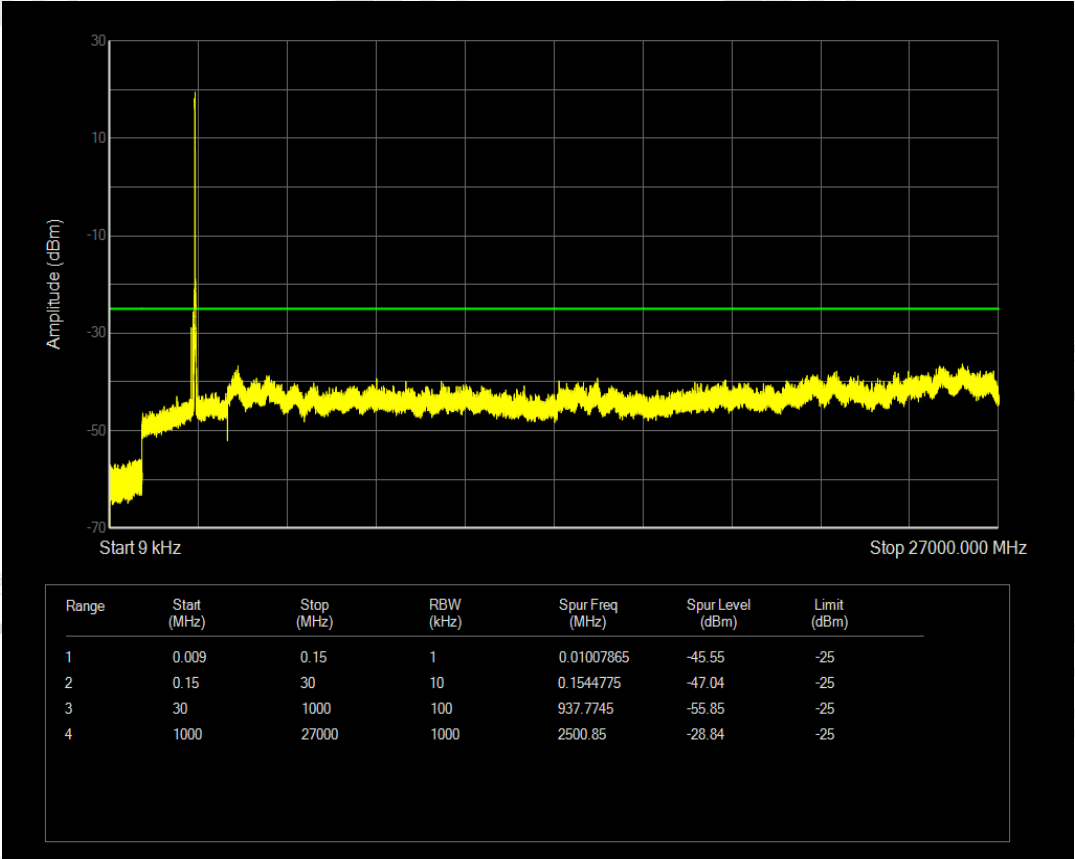
Band38 QAM16 BW=15MHz Channel=37825 RB Size=75 Position=#0



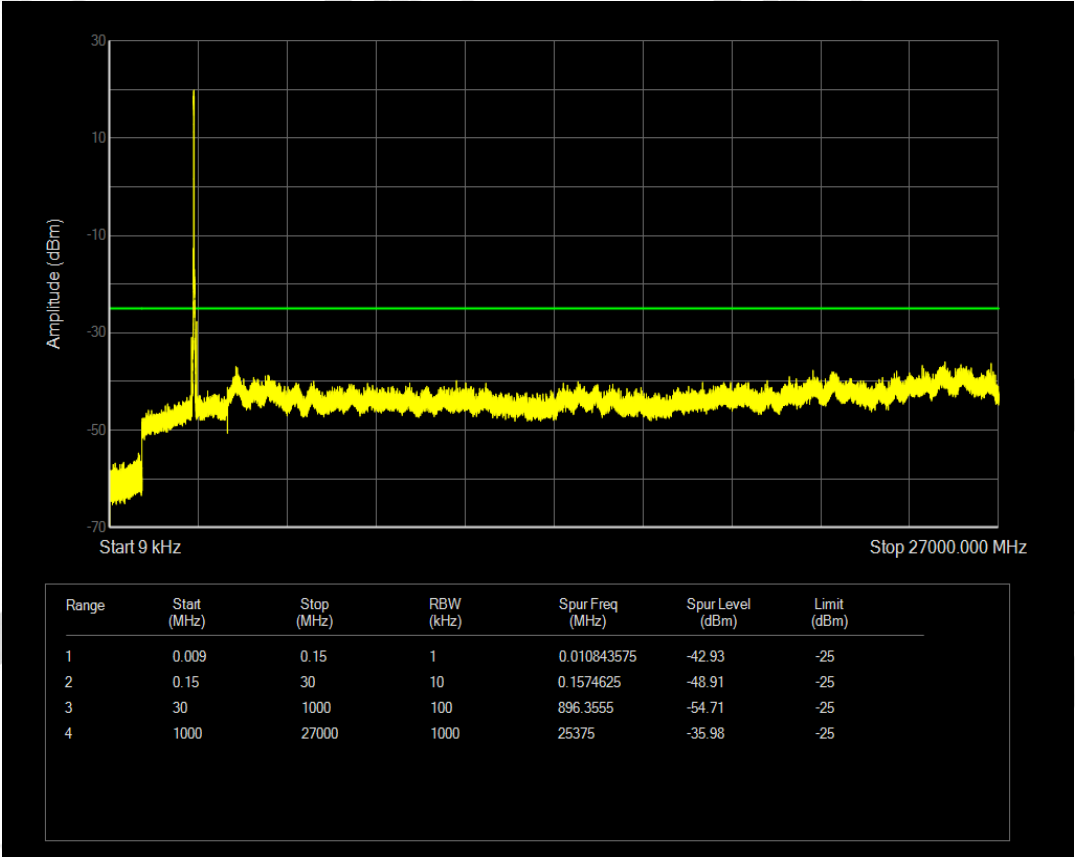
Band38 QPSK BW=15MHz Channel=38175 RB Size=75 Position=#0



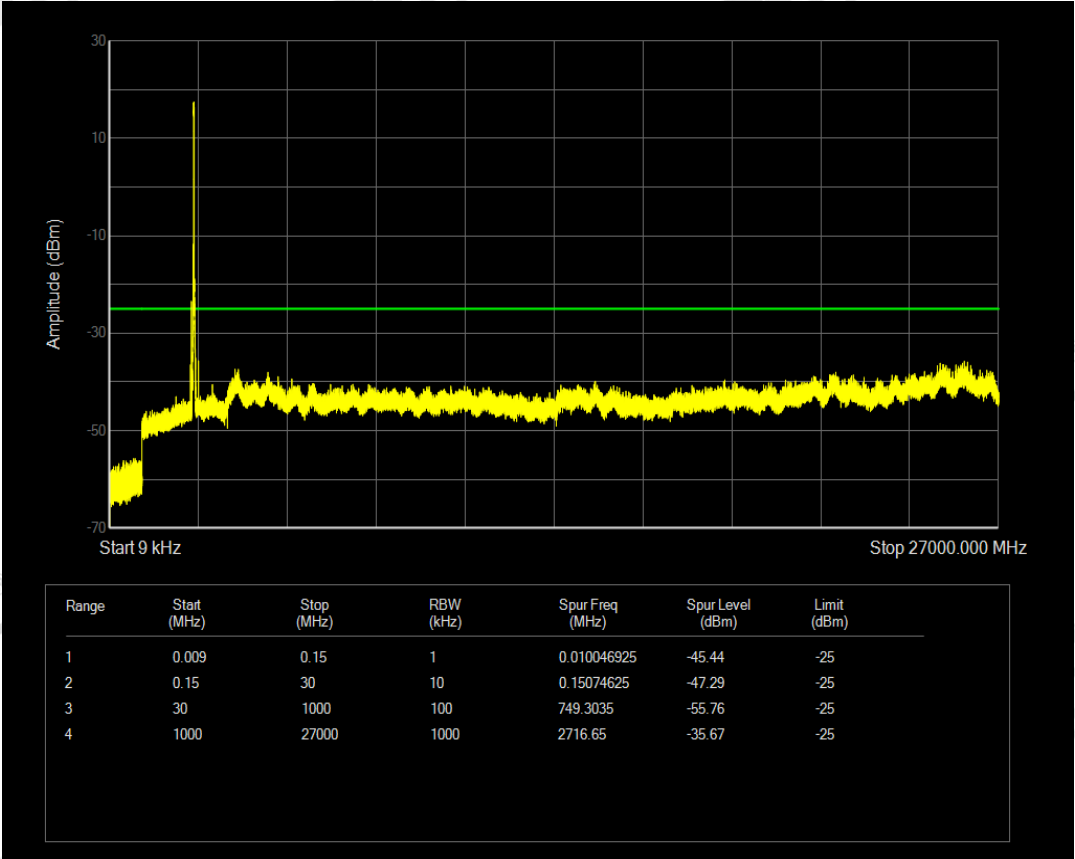
Band38 QAM16 BW=15MHz Channel=38175 RB Size=75 Position=#0



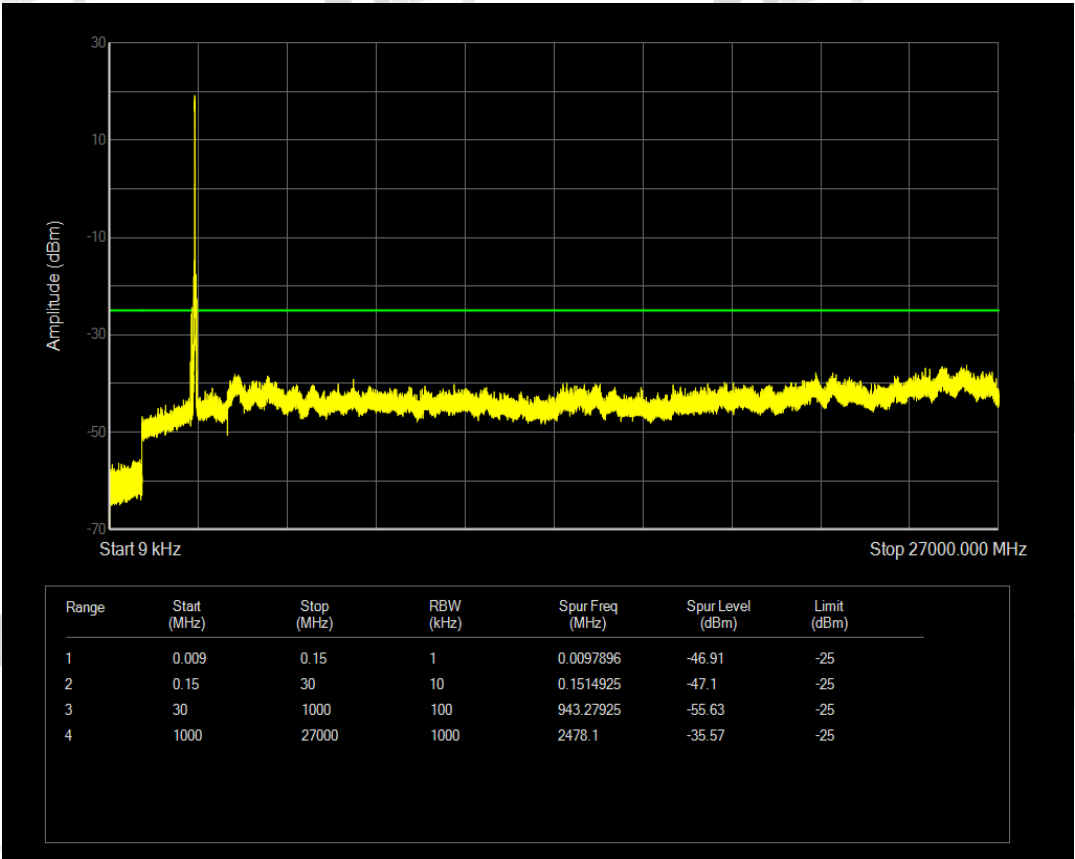
Band38 QPSK BW=20MHz Channel=37850 RB Size=100 Position=#0



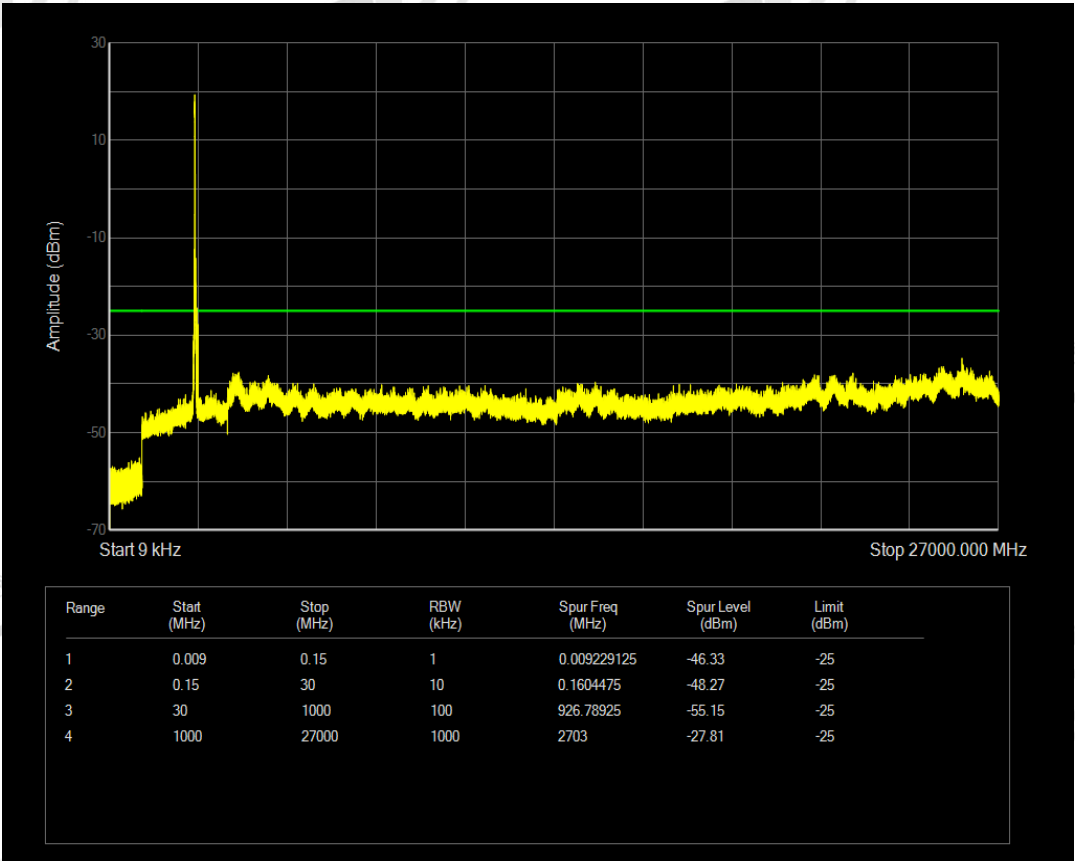
Band38 QAM16 BW=20MHz Channel=37850 RB Size=100 Position=#0



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

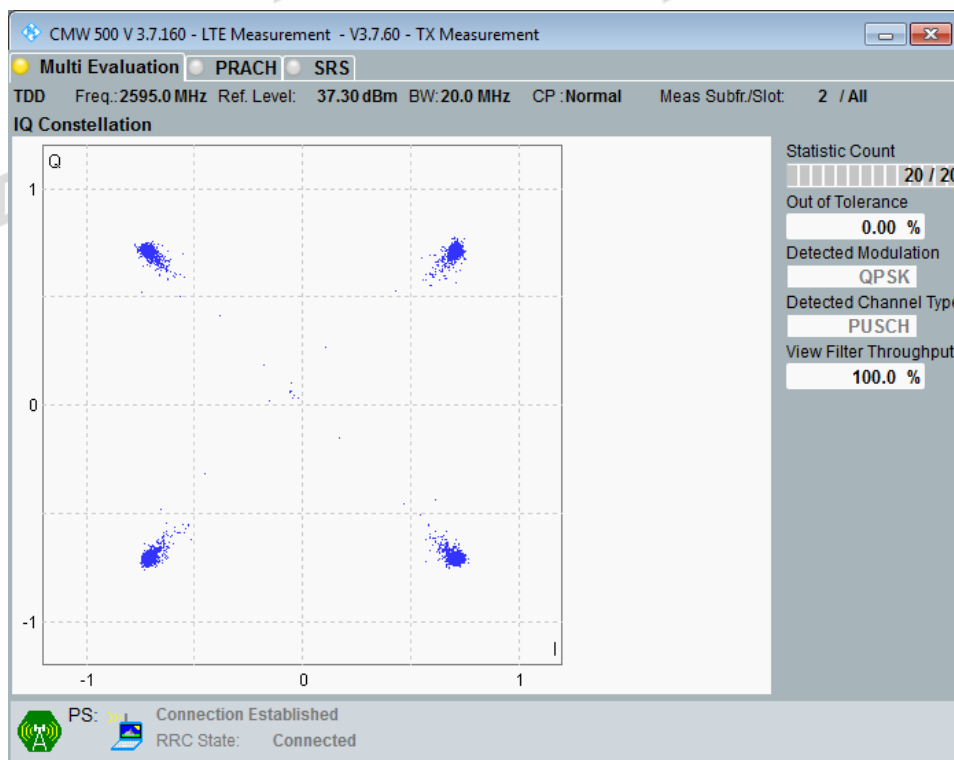


Band38 QAM16 BW=20MHz Channel=38150 RB Size=100 Position=#0

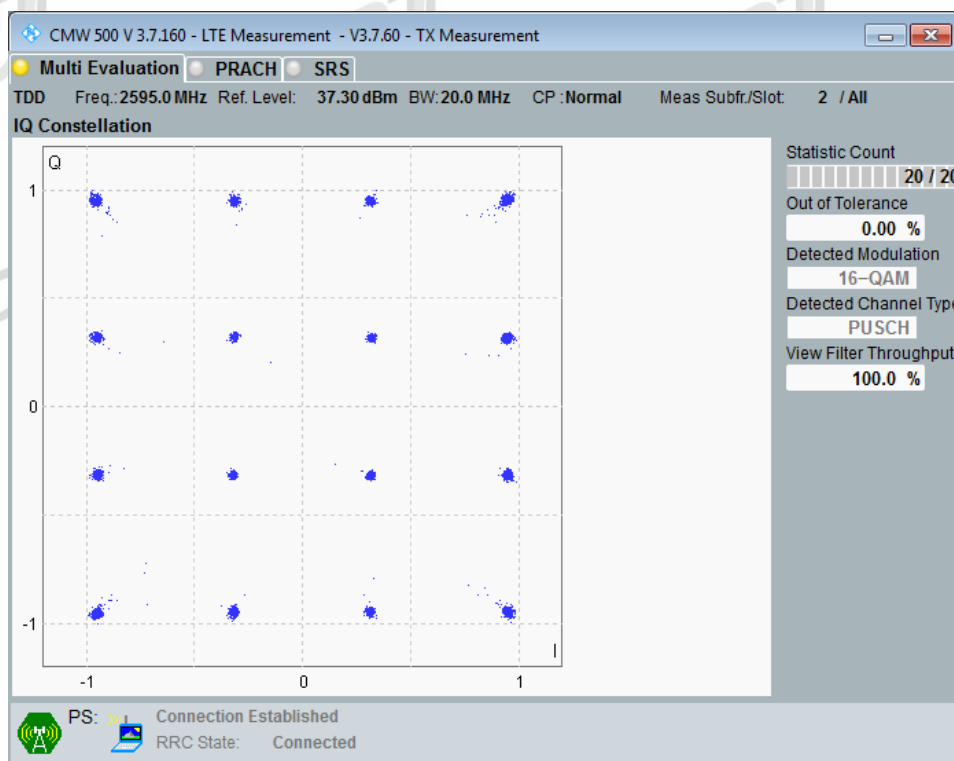


7 Modulation Characteristics

7.1 LTE/TM1 20MHz

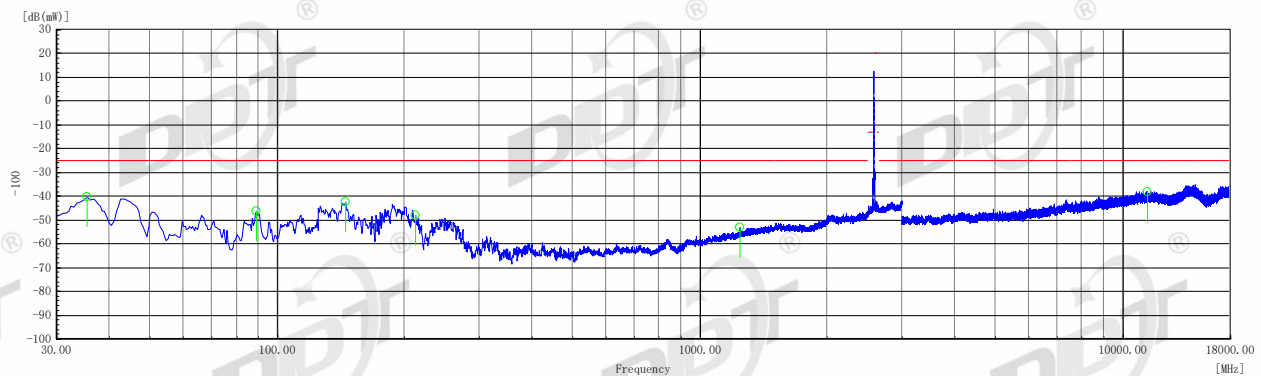


7.1 LTE/TM2 20MHz



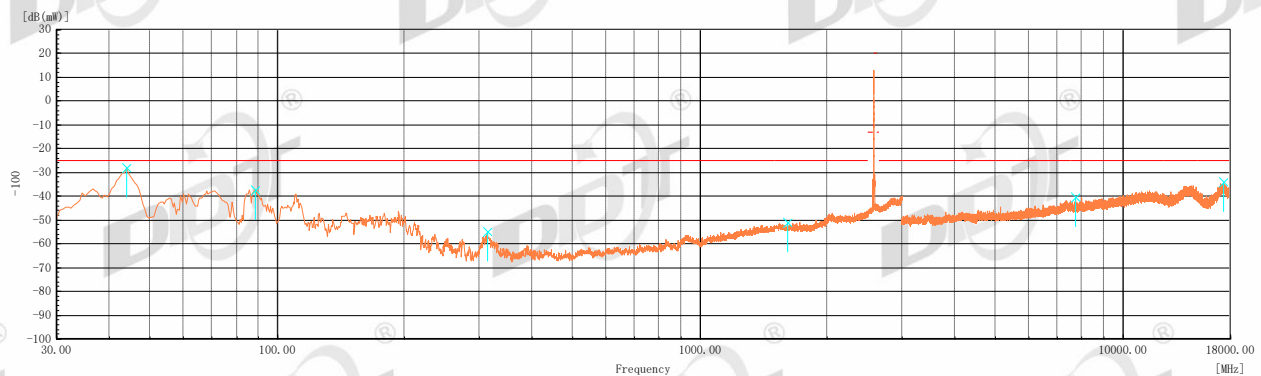
8. Radiated Power and Radiated Spurious Emissions

Test Mode1: LTE Band38 L-channel (horizontal)



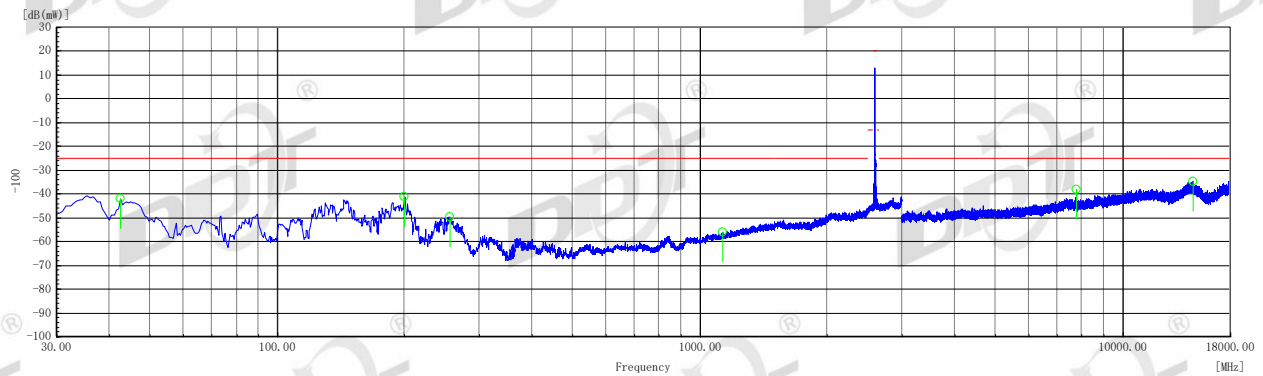
Frequency [MHz]	Pol	level (dbuv/m)	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
145	H	52.7	-42.6	-25	17.6	109	315
89	H	49.2	-46.1	-25	21.1	146	0.3
212.5	H	47.5	-47.8	-25	22.8	164	0.3
1239	H	42.1	-53.2	-25	28.2	139	315
35.5	H	55.0	-40.3	-25	15.3	130	0.3
11463.5	H	57.2	-38.1	-25	13.1	136	270.7

Test Mode1: LTE Band38 L-channel (vertical)



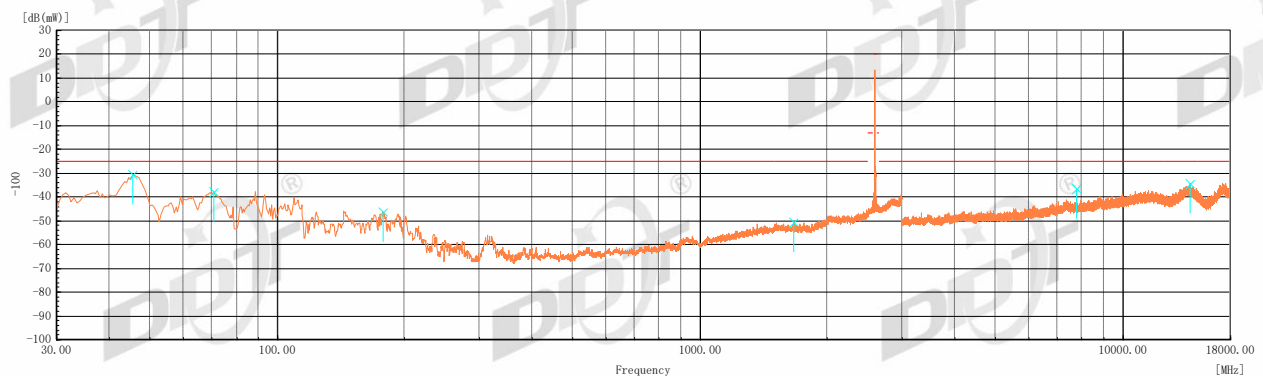
Frequency [MHz]	Pol	level (dbuv/m)	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
44	V	67.1	-28.2	-25	3.2	164	44.3
88.5	V	58.2	-37.1	-25	12.1	139	89.7
313.5	V	40.5	-54.8	-25	29.8	130	225
1606	V	44.4	-50.9	-25	25.9	136	225
7714.501	V	54.8	-40.5	-25	15.5	189	89.7
17285	V	61.4	-33.9	-25	8.9	188	44.3

Test Mode1: LTE Band38 M-channel (horizontal)



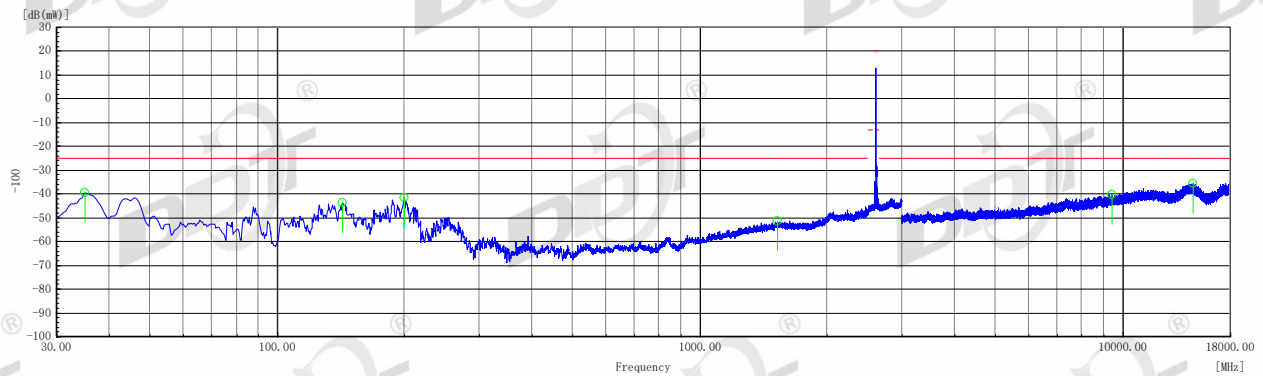
Frequency [MHz]	Pol	level (dbuv/m)	Leve l [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
42.5	H	53.4	-41.9	-25	16.9	111	135.1
200	H	54.0	-41.3	-25	16.3	110	0.2
1131	H	39.2	-56.1	-25	31.1	121	225
7771.501	H	57.2	-38.1	-25	13.1	118	0.2
14669	H	60.6	-34.7	-25	9.7	114	315.3
255.5	H	45.6	-49.7	-25	24.7	168	315.3

Test Mode1: LTE Band38 M-channel (vertical)



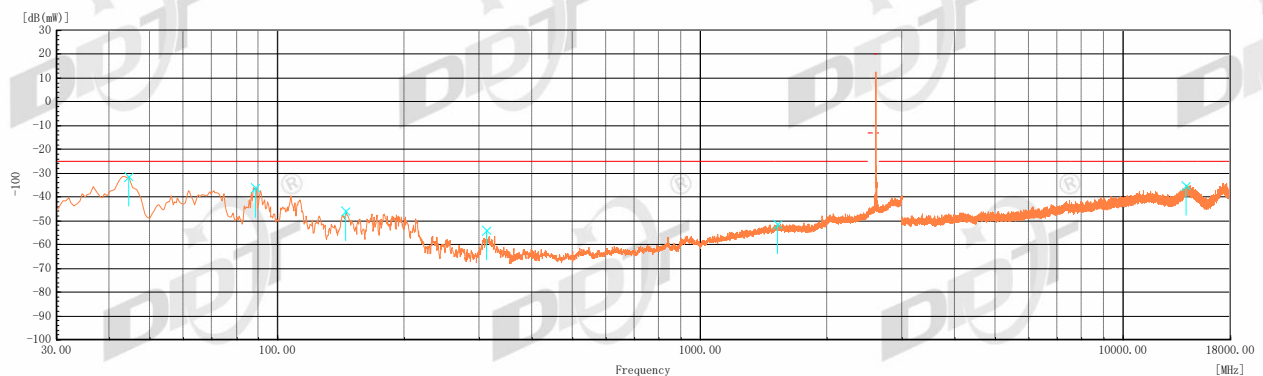
Frequency [MHz]	Pol	level (dbuv/m)	Leve l [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
45.5	V	64.6	-30.7	-25	5.7	110	44.4
70.5	V	57.6	-37.7	-25	12.7	116	44.4
177.5	V	48.8	-46.5	-25	21.5	118	89.8
1664.5	V	44.8	-50.5	-25	25.5	125	269.6
7772.001	V	58.9	-36.4	-25	11.4	131	359.9
14424.5	V	60.9	-34.4	-25	9.4	150	134.7

Test Mode1: LTE Band38 H-channel (horizontal)



Frequency [MHz]	Pol	level (dbuv/m)	Leve l [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
35	H	55.7	-39.6	-25	14.6	125	180.9
142.5	H	51.6	-43.7	-25	18.7	131	270
199.5	H	53.5	-41.8	-25	16.8	150	0.2
1524.5	H	44.1	-51.2	-25	26.2	154	180.9
9426.5	H	54.9	-40.4	-25	15.4	160	225.4
14674.5	H	59.9	-35.4	-25	10.4	172	315

Test Mode1: LTE Band38 H-channel (vertical)



Frequency [MHz]	Pol	level (dbuv/m)	Leve l [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
44.5	V	64.1	-31.2	-25	6.2	107	89.8
88.5	V	59.4	-35.9	-25	10.9	125	44.5
145	V	49.6	-45.7	-25	20.7	125	44.5
312	V	41.4	-53.9	-25	28.9	129	224.7
1521	V	43.9	-51.4	-25	26.4	150	0
14147.5	V	60.0	-35.3	-25	10.3	152	89.8