

Appendix for Band 40

Report No.: BCTC2504135595-3E

Applicant: Shanghai TUGE Data Technologies Co., Ltd.

Product Name: Smart IoT 4G Router

Test Model: TR40

Tested Date: 2025-04-03 to 2025-05-16

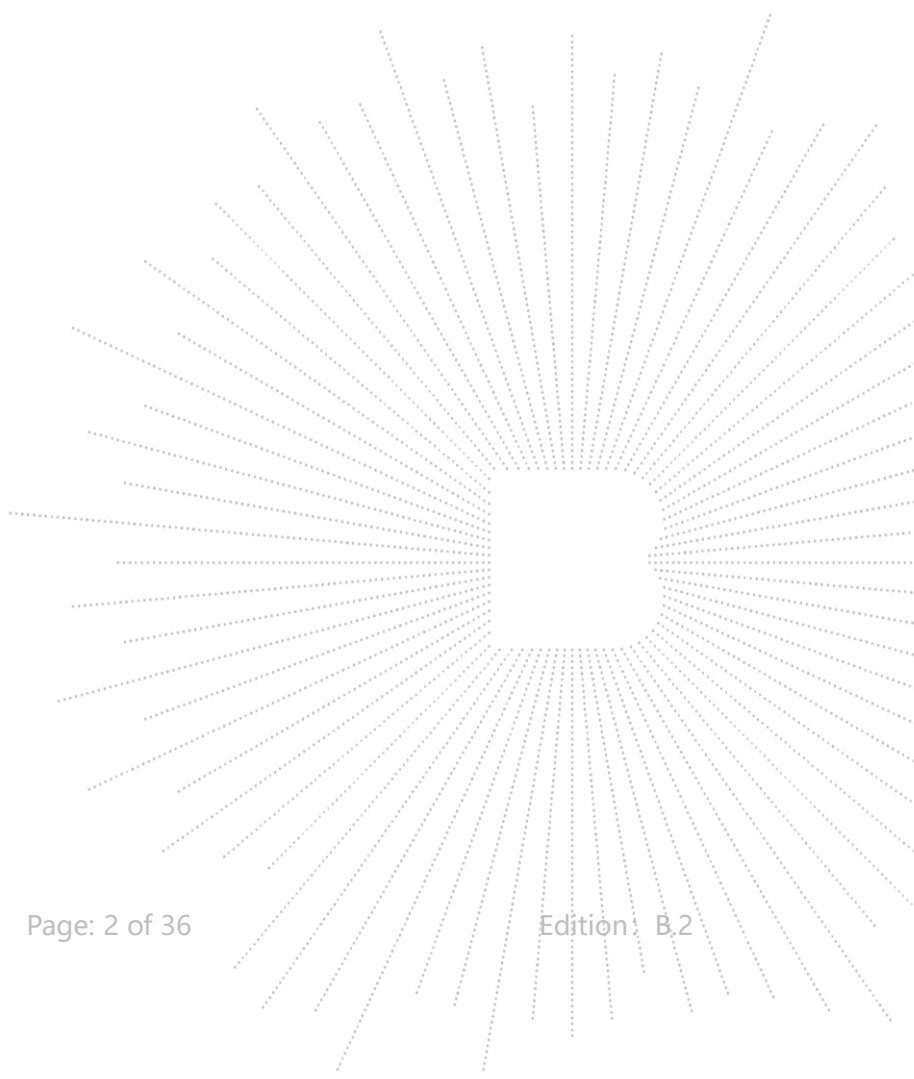
Issued Date: 2025-05-27

Shenzhen BCTC Testing Co., Ltd.



Contents

Appendix 1. Conducted output power	3
Appendix 2. Frequency stability.....	5
Appendix 3. Peak-to-Average Ratio	12
Appendix 4. Occupied bandwidth	19
Appendix 5. Band edge	26
Appendix 6. Out-of-band emissions	30



Appendix 1. Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band40	5	38675	1	#0	QPSK	23.53	PASS
Band40	5	38675	1	#Mid	QPSK	23.59	PASS
Band40	5	38675	1	#Max	QPSK	23.60	PASS
Band40	5	38675	12	#0	QPSK	22.69	PASS
Band40	5	38675	12	#Mid	QPSK	22.74	PASS
Band40	5	38675	12	#Max	QPSK	22.69	PASS
Band40	5	38675	25	#0	QPSK	22.63	PASS
Band40	5	38675	1	#0	16QAM	22.39	PASS
Band40	5	38675	1	#Mid	16QAM	22.42	PASS
Band40	5	38675	1	#Max	16QAM	22.38	PASS
Band40	5	38675	12	#0	16QAM	21.67	PASS
Band40	5	38675	12	#Mid	16QAM	21.54	PASS
Band40	5	38675	12	#Max	16QAM	21.65	PASS
Band40	5	38675	25	#0	16QAM	21.81	PASS
Band40	5	39150	1	#0	QPSK	23.33	PASS
Band40	5	39150	1	#Mid	QPSK	23.28	PASS
Band40	5	39150	1	#Max	QPSK	23.28	PASS
Band40	5	39150	12	#0	QPSK	22.56	PASS
Band40	5	39150	12	#Mid	QPSK	22.41	PASS
Band40	5	39150	12	#Max	QPSK	22.52	PASS
Band40	5	39150	25	#0	QPSK	22.48	PASS
Band40	5	39150	1	#0	16QAM	22.93	PASS
Band40	5	39150	1	#Mid	16QAM	22.86	PASS
Band40	5	39150	1	#Max	16QAM	22.86	PASS
Band40	5	39150	12	#0	16QAM	21.52	PASS
Band40	5	39150	12	#Mid	16QAM	21.49	PASS
Band40	5	39150	12	#Max	16QAM	21.54	PASS
Band40	5	39150	25	#0	16QAM	21.64	PASS
Band40	5	39625	1	#0	QPSK	23.36	PASS
Band40	5	39625	1	#Mid	QPSK	23.31	PASS
Band40	5	39625	1	#Max	QPSK	23.37	PASS
Band40	5	39625	12	#0	QPSK	22.45	PASS
Band40	5	39625	12	#Mid	QPSK	22.43	PASS
Band40	5	39625	12	#Max	QPSK	22.47	PASS
Band40	5	39625	25	#0	QPSK	22.37	PASS
Band40	5	39625	1	#0	16QAM	22.12	PASS
Band40	5	39625	1	#Mid	16QAM	22.17	PASS
Band40	5	39625	1	#Max	16QAM	22.10	PASS
Band40	5	39625	12	#0	16QAM	21.40	PASS
Band40	5	39625	12	#Mid	16QAM	21.31	PASS

Band40	5	39625	12	#Max	16QAM	21.41	PASS
Band40	5	39625	25	#0	16QAM	21.62	PASS
Band40	10	38700	1	#0	QPSK	23.77	PASS
Band40	10	38700	1	#Mid	QPSK	23.72	PASS
Band40	10	38700	1	#Max	QPSK	23.76	PASS
Band40	10	38700	25	#0	QPSK	22.55	PASS
Band40	10	38700	25	#Mid	QPSK	22.64	PASS
Band40	10	38700	25	#Max	QPSK	22.58	PASS
Band40	10	38700	50	#0	QPSK	22.60	PASS
Band40	10	38700	1	#0	16QAM	23.12	PASS
Band40	10	38700	1	#Mid	16QAM	23.11	PASS
Band40	10	38700	1	#Max	16QAM	23.11	PASS
Band40	10	38700	25	#0	16QAM	21.67	PASS
Band40	10	38700	25	#Mid	16QAM	21.63	PASS
Band40	10	38700	25	#Max	16QAM	21.71	PASS
Band40	10	38700	50	#0	16QAM	21.84	PASS
Band40	10	39150	1	#0	QPSK	23.72	PASS
Band40	10	39150	1	#Mid	QPSK	23.56	PASS
Band40	10	39150	1	#Max	QPSK	23.47	PASS
Band40	10	39150	25	#0	QPSK	22.64	PASS
Band40	10	39150	25	#Mid	QPSK	22.46	PASS
Band40	10	39150	25	#Max	QPSK	22.48	PASS
Band40	10	39150	50	#0	QPSK	22.48	PASS
Band40	10	39150	1	#0	16QAM	22.31	PASS
Band40	10	39150	1	#Mid	16QAM	22.24	PASS
Band40	10	39150	1	#Max	16QAM	22.22	PASS
Band40	10	39150	25	#0	16QAM	21.69	PASS
Band40	10	39150	25	#Mid	16QAM	21.68	PASS
Band40	10	39150	25	#Max	16QAM	21.71	PASS
Band40	10	39150	50	#0	16QAM	21.66	PASS
Band40	10	39600	1	#0	QPSK	23.32	PASS
Band40	10	39600	1	#Mid	QPSK	23.37	PASS
Band40	10	39600	1	#Max	QPSK	23.32	PASS
Band40	10	39600	25	#0	QPSK	22.46	PASS
Band40	10	39600	25	#Mid	QPSK	22.39	PASS
Band40	10	39600	25	#Max	QPSK	22.37	PASS
Band40	10	39600	50	#0	QPSK	22.36	PASS
Band40	10	39600	1	#0	16QAM	22.75	PASS
Band40	10	39600	1	#Mid	16QAM	22.75	PASS
Band40	10	39600	1	#Max	16QAM	22.71	PASS
Band40	10	39600	25	#0	16QAM	21.68	PASS
Band40	10	39600	25	#Mid	16QAM	21.66	PASS
Band40	10	39600	25	#Max	16QAM	21.64	PASS
Band40	10	39600	50	#0	16QAM	21.42	PASS

Appendix 2. Frequency stability

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Low Limit (ppm)	High Limit (ppm)	Verdict
Band40	5	38675	25	#0	QPSK	LV	NT	34.06	0.015	-2.5	2.5	PASS
Band40	5	38675	25	#0	QPSK	NV	NT	31.13	0.014	-2.5	2.5	PASS
Band40	5	38675	25	#0	QPSK	HV	NT	26.19	0.011	-2.5	2.5	PASS
Band40	5	38675	25	#0	16QAM	LV	NT	29.64	0.013	-2.5	2.5	PASS
Band40	5	38675	25	#0	16QAM	NV	NT	36.19	0.016	-2.5	2.5	PASS
Band40	5	38675	25	#0	16QAM	HV	NT	35.06	0.015	-2.5	2.5	PASS
Band40	5	39150	25	#0	QPSK	LV	NT	13.80	0.006	-2.5	2.5	PASS
Band40	5	39150	25	#0	QPSK	NV	NT	19.33	0.008	-2.5	2.5	PASS
Band40	5	39150	25	#0	QPSK	HV	NT	19.50	0.008	-2.5	2.5	PASS
Band40	5	39150	25	#0	16QAM	LV	NT	20.43	0.009	-2.5	2.5	PASS
Band40	5	39150	25	#0	16QAM	NV	NT	24.40	0.010	-2.5	2.5	PASS
Band40	5	39150	25	#0	16QAM	HV	NT	30.68	0.013	-2.5	2.5	PASS
Band40	5	39625	25	#0	QPSK	LV	NT	-0.50	0.000	-2.5	2.5	PASS
Band40	5	39625	25	#0	QPSK	NV	NT	1.99	0.001	-2.5	2.5	PASS
Band40	5	39625	25	#0	QPSK	HV	NT	-0.66	0.000	-2.5	2.5	PASS
Band40	5	39625	25	#0	16QAM	LV	NT	-3.95	-0.002	-2.5	2.5	PASS
Band40	5	39625	25	#0	16QAM	NV	NT	-4.51	-0.002	-2.5	2.5	PASS
Band40	5	39625	25	#0	16QAM	HV	NT	-6.77	-0.003	-2.5	2.5	PASS
Band4	10	38700	50	#0	QPSK	LV	NT	41.30	0.018	-2.5	2.5	PASS

0												
Band4 0	10	38700	50	#0	QPSK	NV	NT	45.72	0.020	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	QPSK	HV	NT	10.83	0.005	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	LV	NT	26.12	0.011	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	NV	NT	37.92	0.016	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	HV	NT	43.52	0.019	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	LV	NT	23.53	0.010	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	NV	NT	18.91	0.008	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	HV	NT	13.98	0.006	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	LV	NT	9.83	0.004	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	NV	NT	13.93	0.006	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	HV	NT	19.68	0.008	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	LV	NT	14.68	0.006	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	NV	NT	7.02	0.003	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	HV	NT	-2.60	-0.001	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	LV	NT	-7.67	-0.003	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	NV	NT	-14.43	-0.006	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	HV	NT	-24.63	-0.010	-2.5	2.5	PASS

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Voltage (Vdc)	Temperature (C)	Result (Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
Band4 0	5	38675	25	#0	QPSK	NV	-30	34.62	0.015	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	QPSK	NV	-20	32.26	0.014	-2.5	2.5	PASS



Band4 0	5	38675	25	#0	QPSK	NV	0	31.49	0.014	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	QPSK	NV	10	31.89	0.014	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	QPSK	NV	20	32.67	0.014	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	QPSK	NV	30	32.69	0.014	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	QPSK	NV	40	34.48	0.015	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	QPSK	NV	50	33.47	0.015	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	16QAM	NV	-30	33.04	0.014	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	16QAM	NV	-20	33.90	0.015	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	16QAM	NV	0	35.59	0.015	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	16QAM	NV	10	36.79	0.016	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	16QAM	NV	20	37.72	0.016	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	16QAM	NV	30	39.63	0.017	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	16QAM	NV	40	41.67	0.018	-2.5	2.5	PASS
Band4 0	5	38675	25	#0	16QAM	NV	50	43.99	0.019	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	QPSK	NV	-30	30.57	0.013	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	QPSK	NV	-20	-3.38	-0.00 1	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	QPSK	NV	0	-1.92	-0.00 1	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	QPSK	NV	10	-2.20	-0.00 1	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	QPSK	NV	20	-1.26	-0.00 1	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	QPSK	NV	30	-1.47	-0.00 1	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	QPSK	NV	40	-2.07	-0.00 1	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	QPSK	NV	50	-1.65	-0.00 1	-2.5	2.5	PASS



Band4 0	5	39150	25	#0	16QAM	NV	-30	-2.82	-0.00 1	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	16QAM	NV	-20	-2.02	-0.00 1	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	16QAM	NV	0	0.01	0.000	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	16QAM	NV	10	1.54	0.001	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	16QAM	NV	20	2.39	0.001	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	16QAM	NV	30	3.95	0.002	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	16QAM	NV	40	5.34	0.002	-2.5	2.5	PASS
Band4 0	5	39150	25	#0	16QAM	NV	50	6.64	0.003	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	QPSK	NV	-30	8.13	0.003	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	QPSK	NV	-20	9.03	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	QPSK	NV	0	10.44	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	QPSK	NV	10	10.10	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	QPSK	NV	20	10.90	0.005	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	QPSK	NV	30	9.68	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	QPSK	NV	40	10.07	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	QPSK	NV	50	9.00	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	16QAM	NV	-30	9.07	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	16QAM	NV	-20	8.50	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	16QAM	NV	0	9.17	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	16QAM	NV	10	10.69	0.004	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	16QAM	NV	20	12.25	0.005	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	16QAM	NV	30	13.25	0.006	-2.5	2.5	PASS

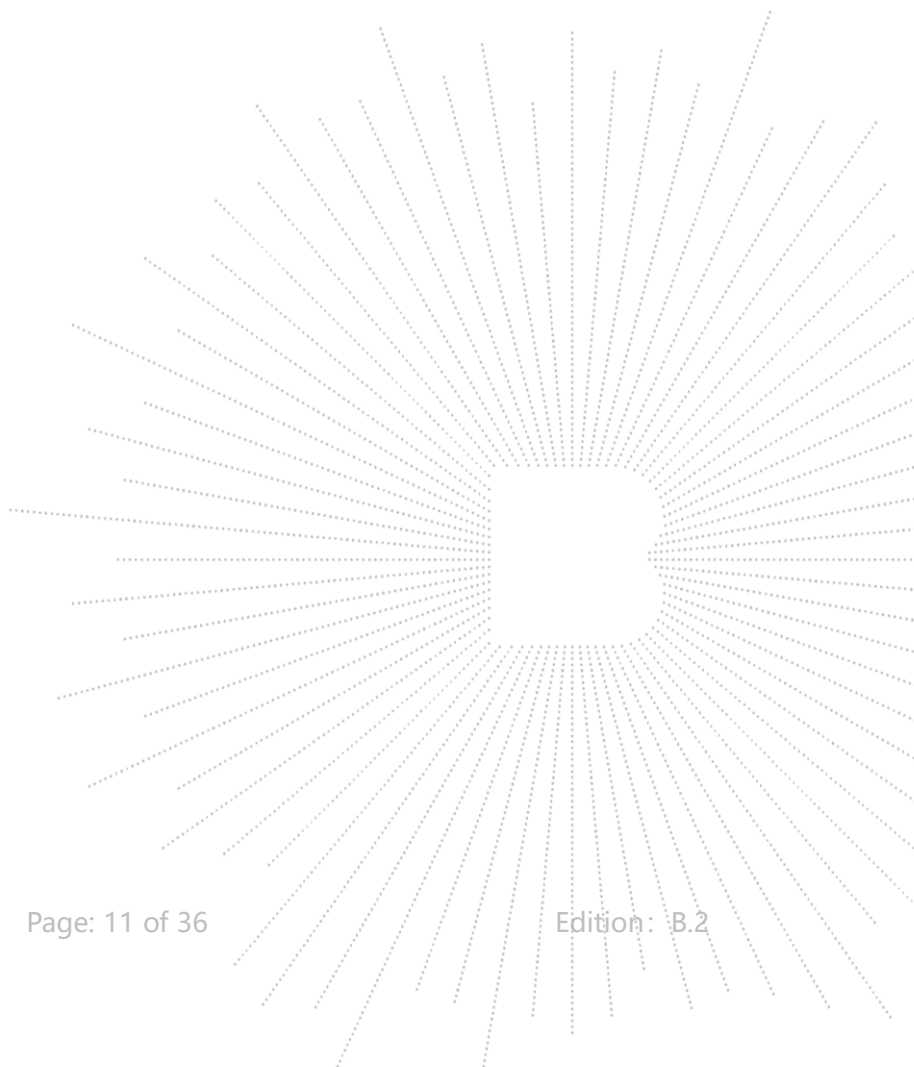


Band4 0	5	39625	25	#0	16QAM	NV	40	14.69	0.006	-2.5	2.5	PASS
Band4 0	5	39625	25	#0	16QAM	NV	50	17.58	0.007	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	QPSK	NV	-30	17.57	0.008	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	QPSK	NV	-20	14.88	0.006	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	QPSK	NV	0	16.54	0.007	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	QPSK	NV	10	18.40	0.008	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	QPSK	NV	20	20.18	0.009	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	QPSK	NV	30	21.40	0.009	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	QPSK	NV	40	21.01	0.009	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	QPSK	NV	50	20.07	0.009	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	NV	-30	16.87	0.007	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	NV	-20	16.14	0.007	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	NV	0	14.93	0.006	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	NV	10	14.56	0.006	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	NV	20	13.16	0.006	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	NV	30	12.39	0.005	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	NV	40	11.22	0.005	-2.5	2.5	PASS
Band4 0	10	38700	50	#0	16QAM	NV	50	11.36	0.005	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	NV	-30	11.14	0.005	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	NV	-20	9.41	0.004	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	NV	0	6.78	0.003	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	NV	10	3.78	0.002	-2.5	2.5	PASS



Band4 0	10	39150	50	#0	QPSK	NV	20	-0.49	0.000	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	NV	30	-4.78	-0.00 2	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	NV	40	-8.28	-0.00 4	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	QPSK	NV	50	-10.9 6	-0.00 5	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	NV	-30	-14.9 1	-0.00 6	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	NV	-20	-18.5 3	-0.00 8	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	NV	0	-20.7 7	-0.00 9	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	NV	10	-23.4 2	-0.01 0	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	NV	20	-24.0 2	-0.01 0	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	NV	30	-25.11	-0.011	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	NV	40	-26.5 9	-0.011	-2.5	2.5	PASS
Band4 0	10	39150	50	#0	16QAM	NV	50	-25.7 6	-0.011	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	NV	-30	-27.0 8	-0.011	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	NV	-20	-28.8 0	-0.01 2	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	NV	0	-30.2 8	-0.01 3	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	NV	10	-33.0 9	-0.01 4	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	NV	20	-36.0 8	-0.01 5	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	NV	30	-38.2 1	-0.01 6	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	NV	40	-42.7 2	-0.01 8	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	QPSK	NV	50	-45.5 2	-0.01 9	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	NV	-30	-48.3 5	-0.02 0	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	NV	-20	3.40	0.001	-2.5	2.5	PASS

Band4 0	10	39600	50	#0	16QAM	NV	0	2.03	0.001	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	NV	10	1.43	0.001	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	NV	20	2.06	0.001	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	NV	30	3.49	0.001	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	NV	40	3.38	0.001	-2.5	2.5	PASS
Band4 0	10	39600	50	#0	16QAM	NV	50	2.99	0.001	-2.5	2.5	PASS

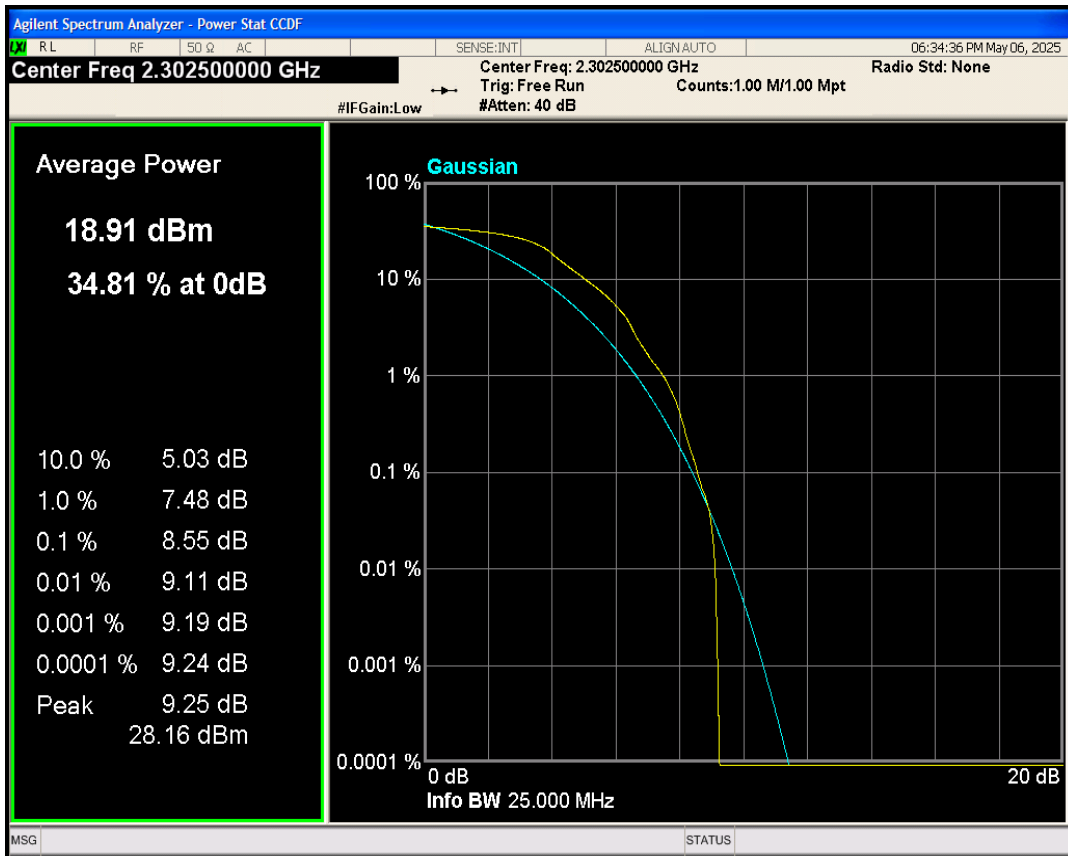


Appendix 3. Peak-to-Average Ratio

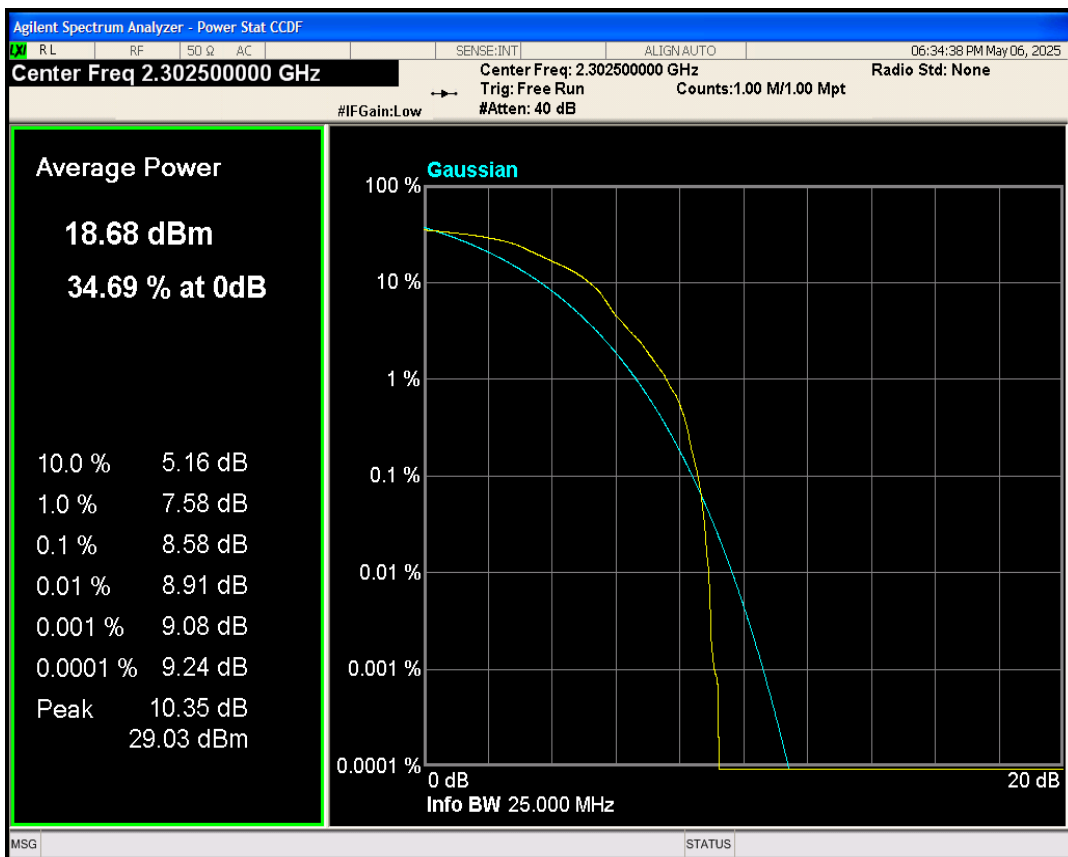
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band40	5	38675	1	#0	QPSK	8.55	13	PASS
Band40	5	38675	1	#0	16QAM	8.58	13	PASS
Band40	5	39150	1	#0	QPSK	7.26	13	PASS
Band40	5	39150	1	#0	16QAM	8.98	13	PASS
Band40	5	39625	1	#0	QPSK	8.96	13	PASS
Band40	5	39625	1	#0	16QAM	11.13	13	PASS
Band40	10	38700	1	#0	QPSK	10.12	13	PASS
Band40	10	38700	1	#0	16QAM	8.79	13	PASS
Band40	10	39150	1	#0	QPSK	9.10	13	PASS
Band40	10	39150	1	#0	16QAM	10.60	13	PASS
Band40	10	39600	1	#0	QPSK	7.52	13	PASS
Band40	10	39600	1	#0	16QAM	9.60	13	PASS



Band40 QPSK BW=5MHz Channel=38675 RB Size=1 Position=#0

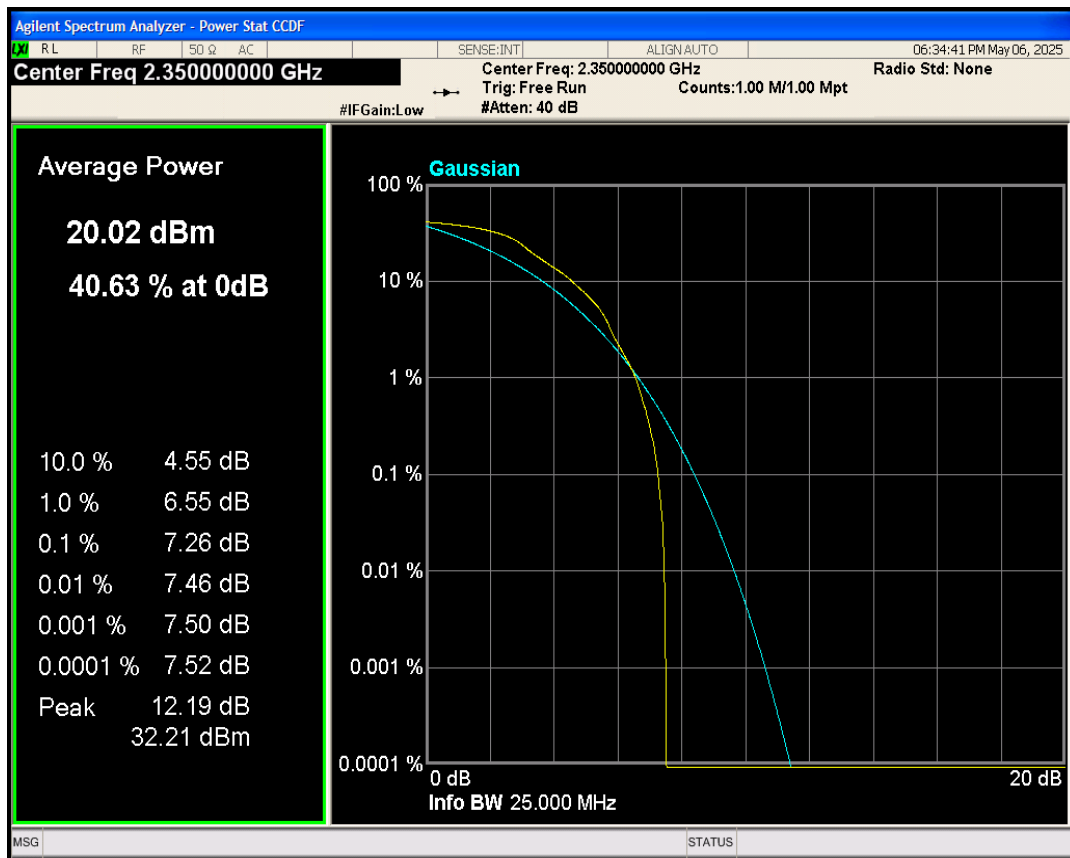


Band40 16QAM BW=5MHz Channel=38675 RB Size=1 Position=#0

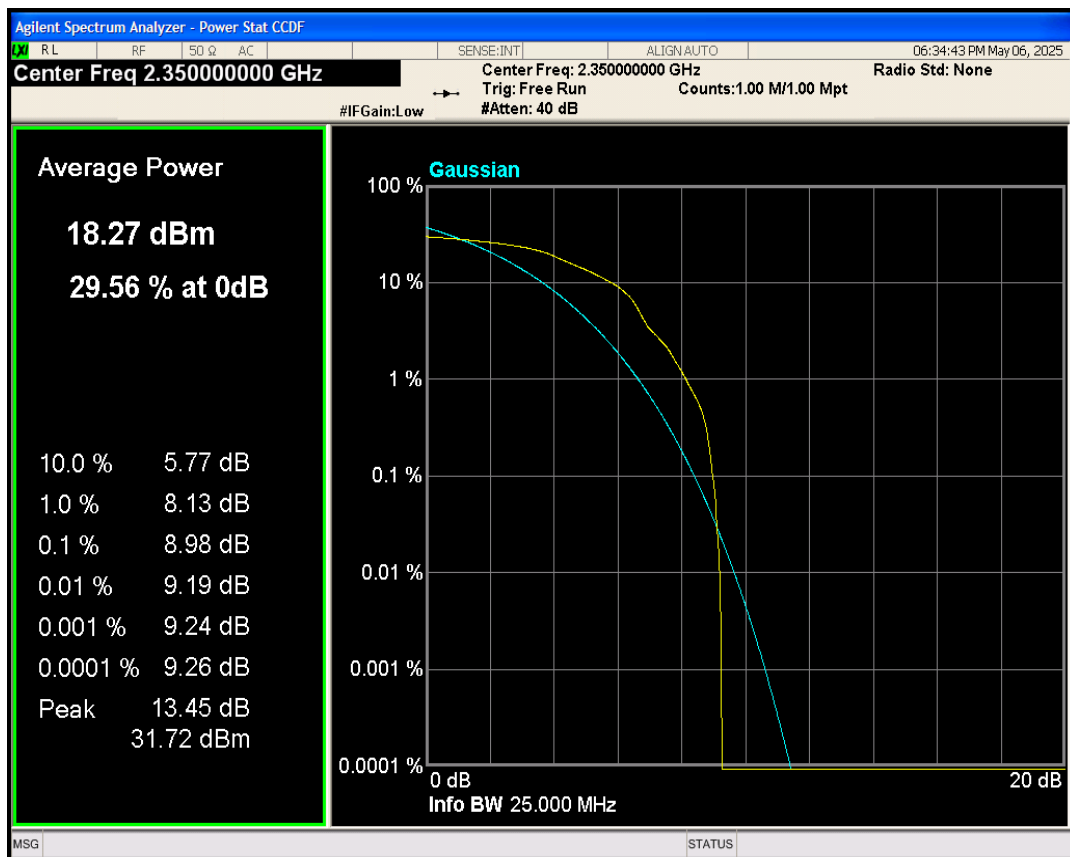




Band40 QPSK BW=5MHz Channel=39150 RB Size=1 Position=#0

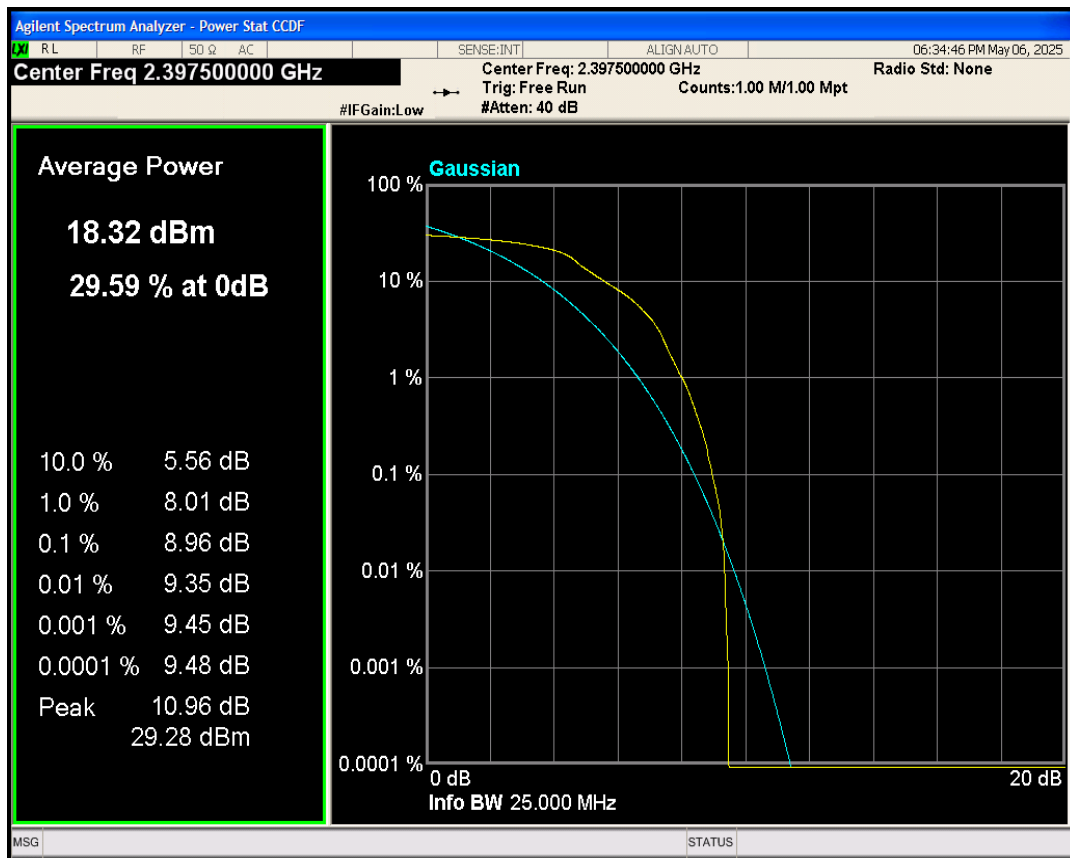


Band40 16QAM BW=5MHz Channel=39150 RB Size=1 Position=#0

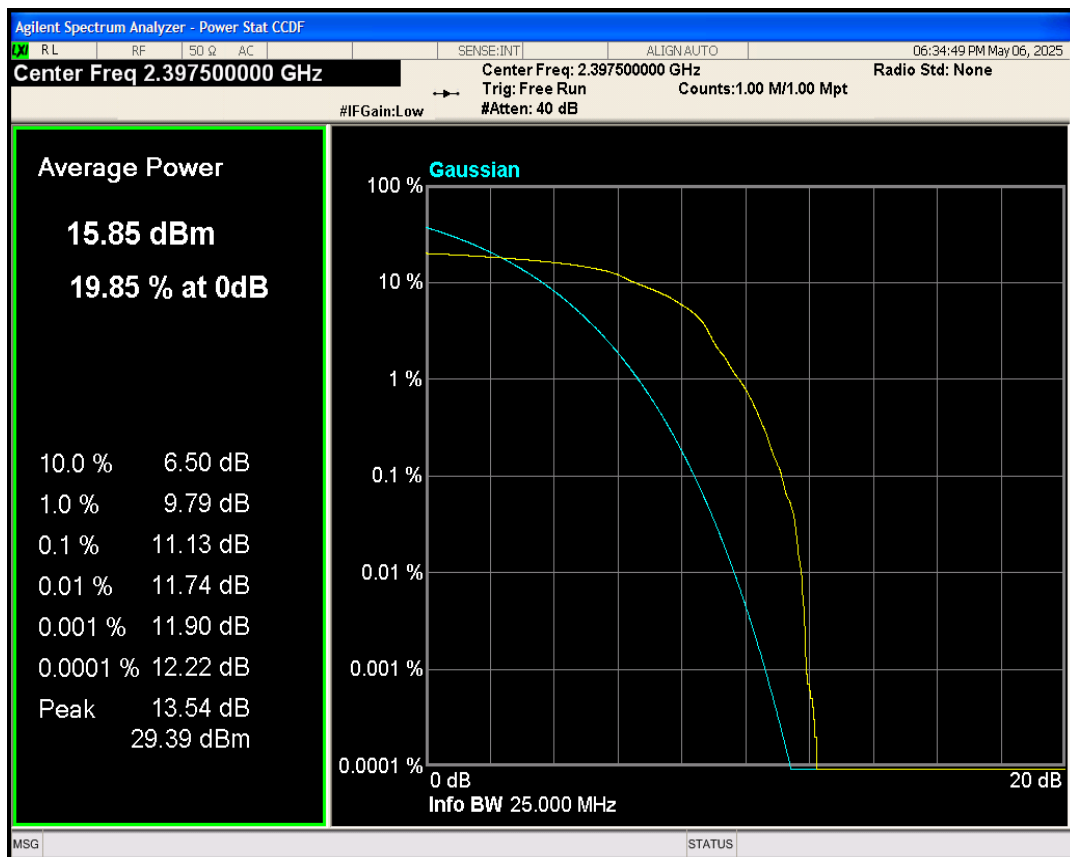




Band40 QPSK BW=5MHz Channel=39625 RB Size=1 Position=#0

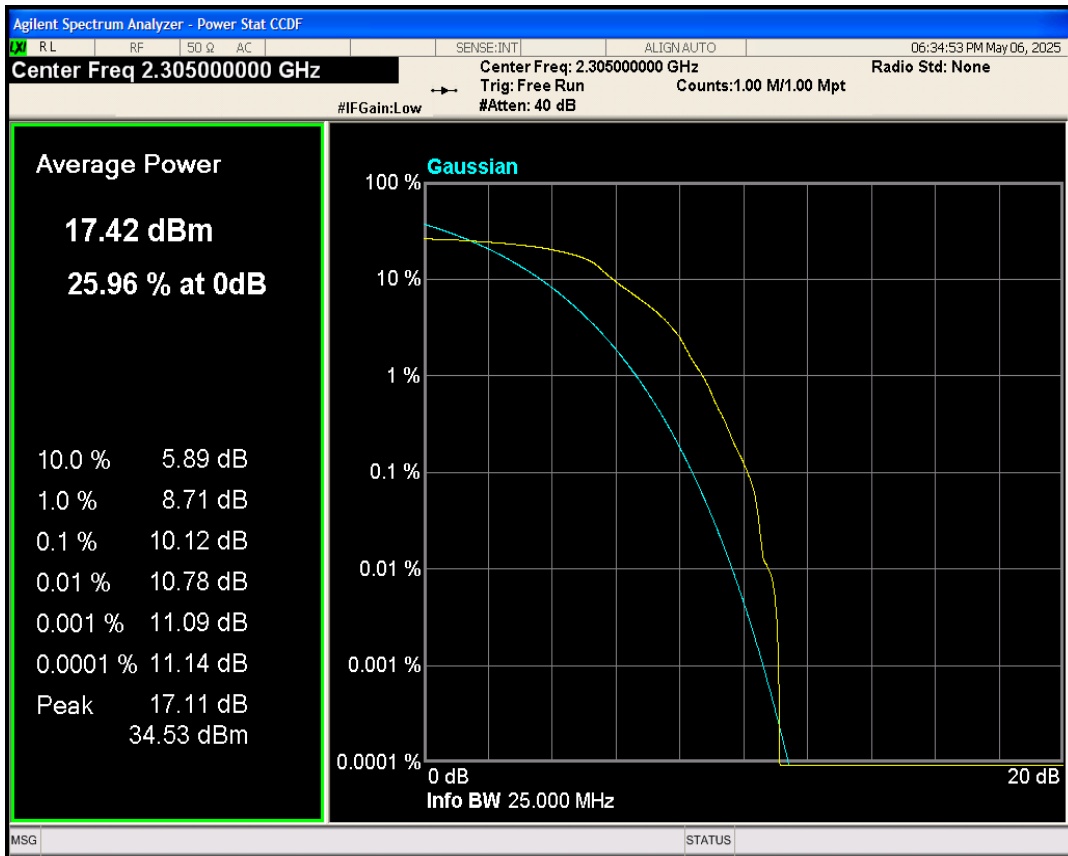


Band40 16QAM BW=5MHz Channel=39625 RB Size=1 Position=#0

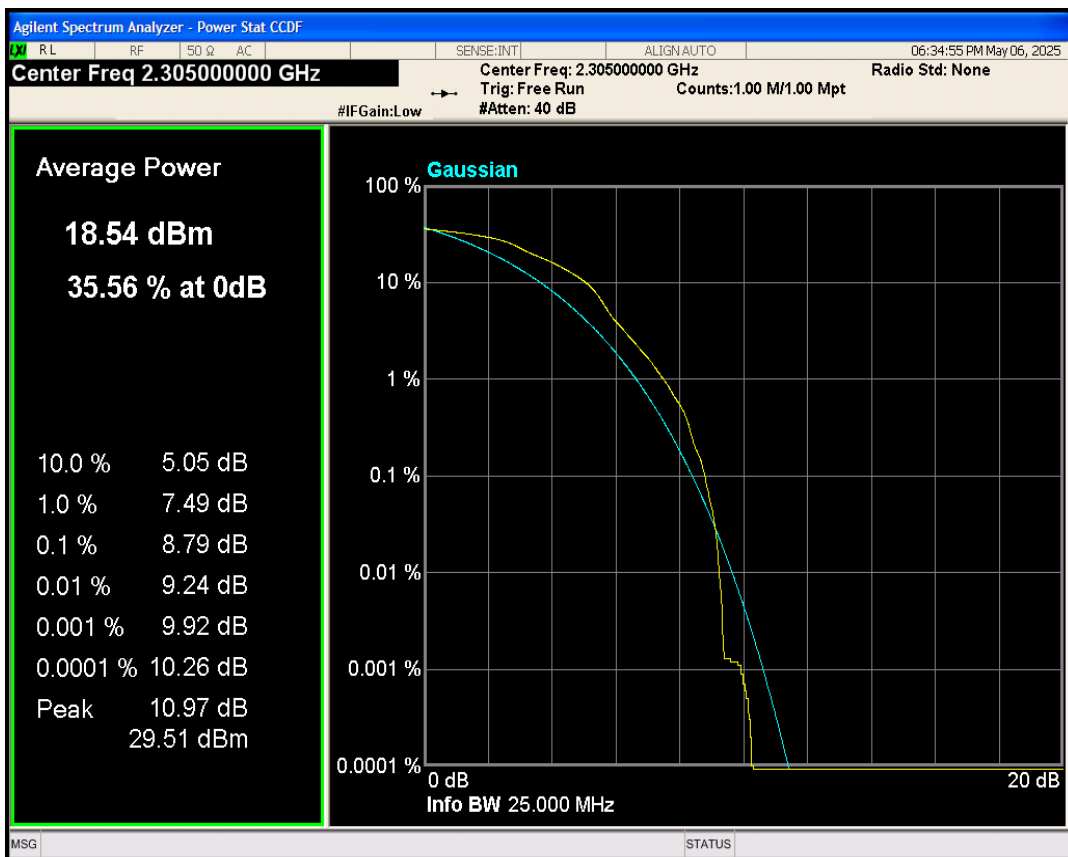




Band40 QPSK BW=10MHz Channel=38700 RB Size=1 Position=#0

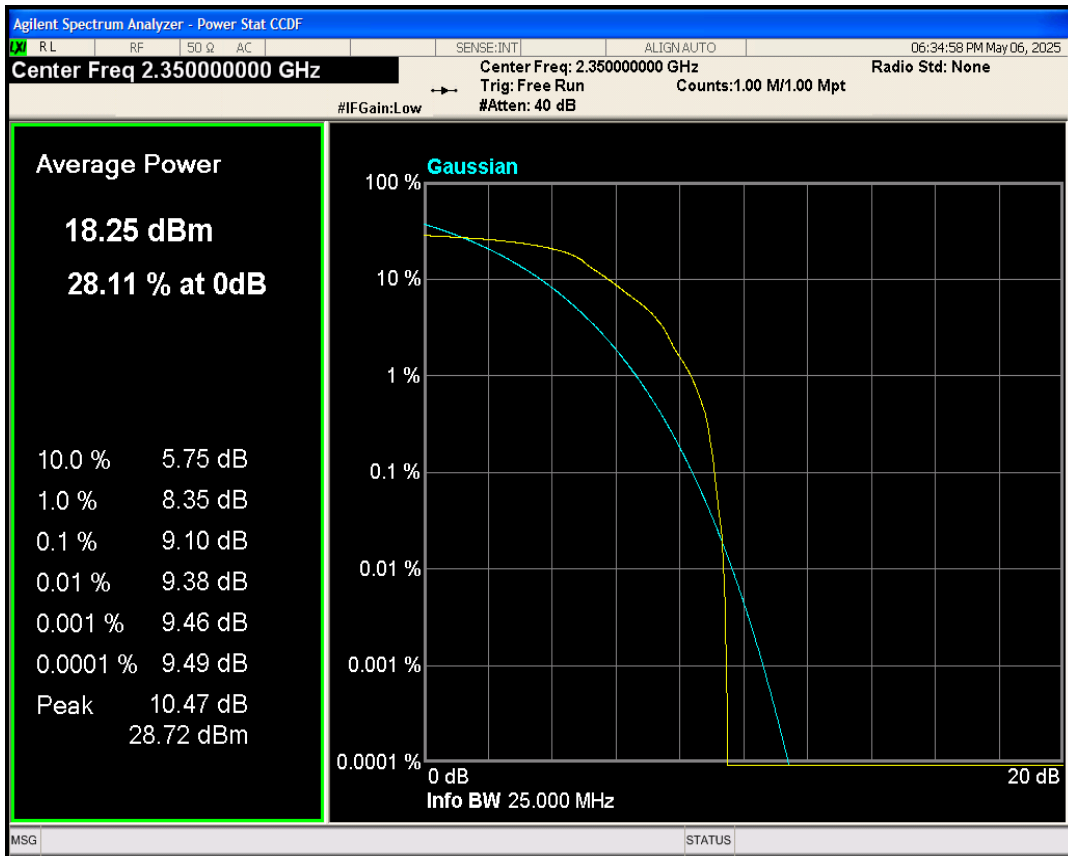


Band40 16QAM BW=10MHz Channel=38700 RB Size=1 Position=#0

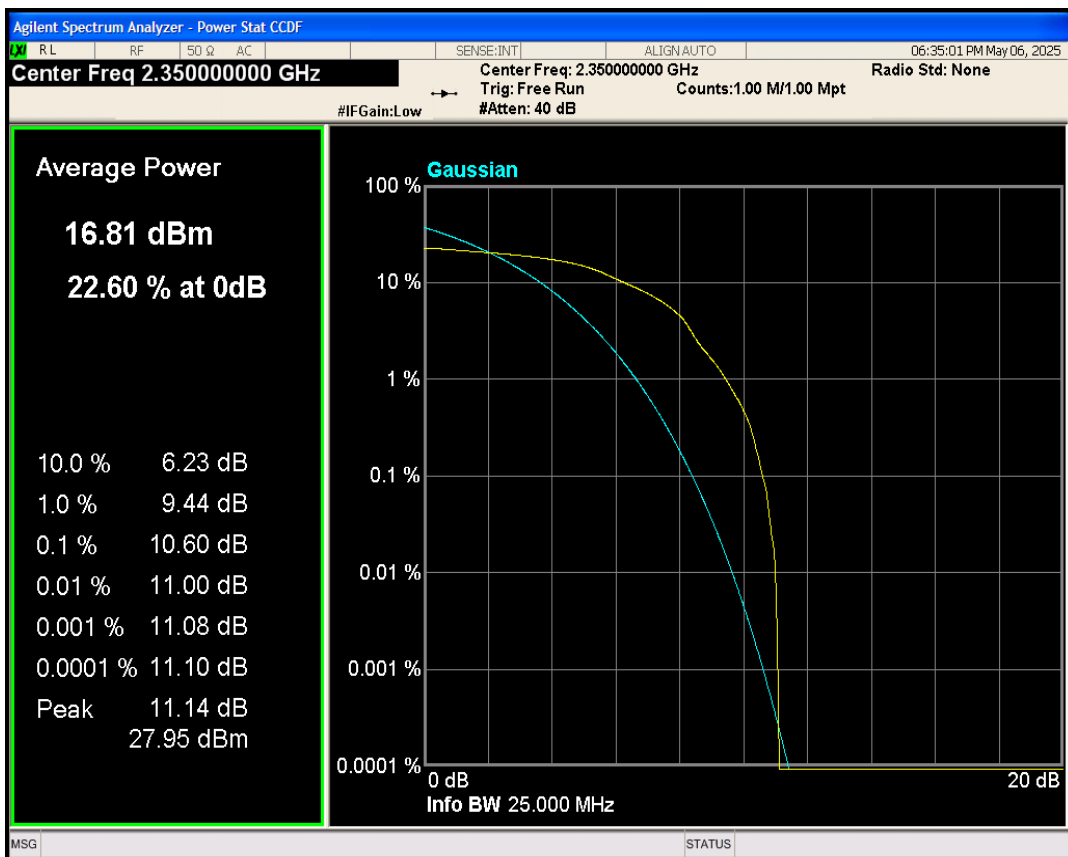




Band40 QPSK BW=10MHz Channel=39150 RB Size=1 Position=#0

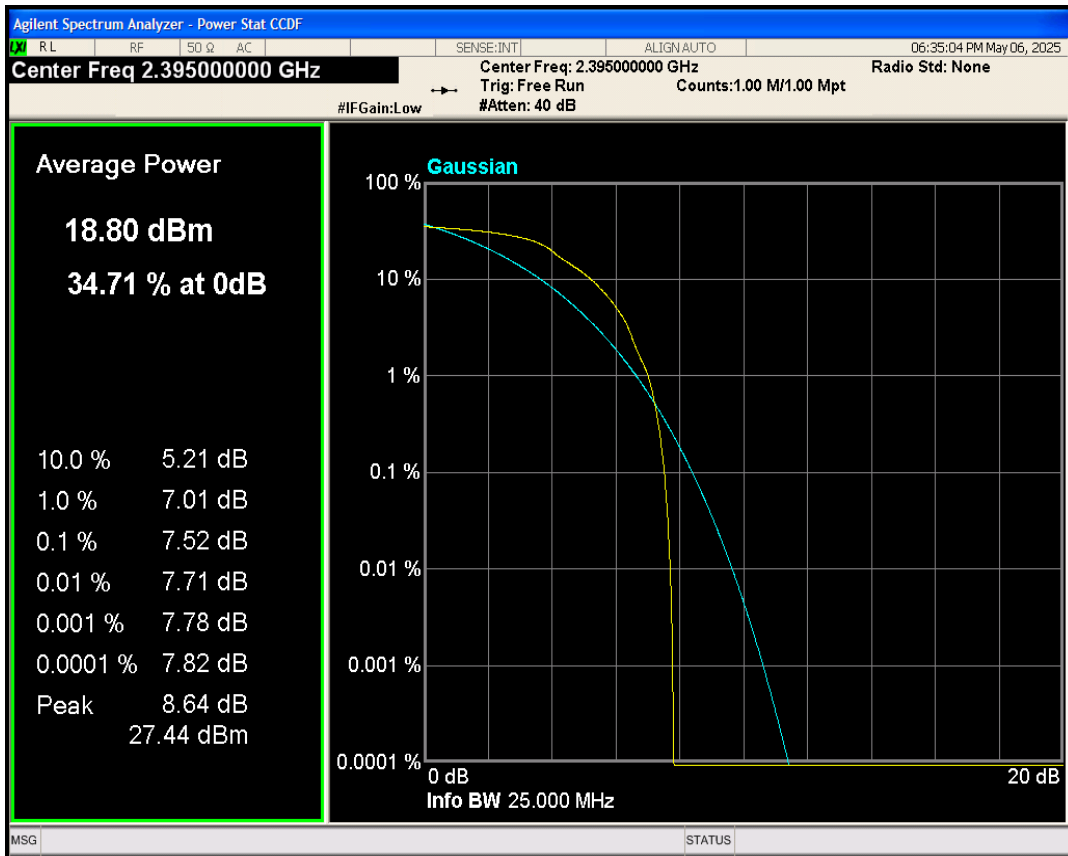


Band40 16QAM BW=10MHz Channel=39150 RB Size=1 Position=#0

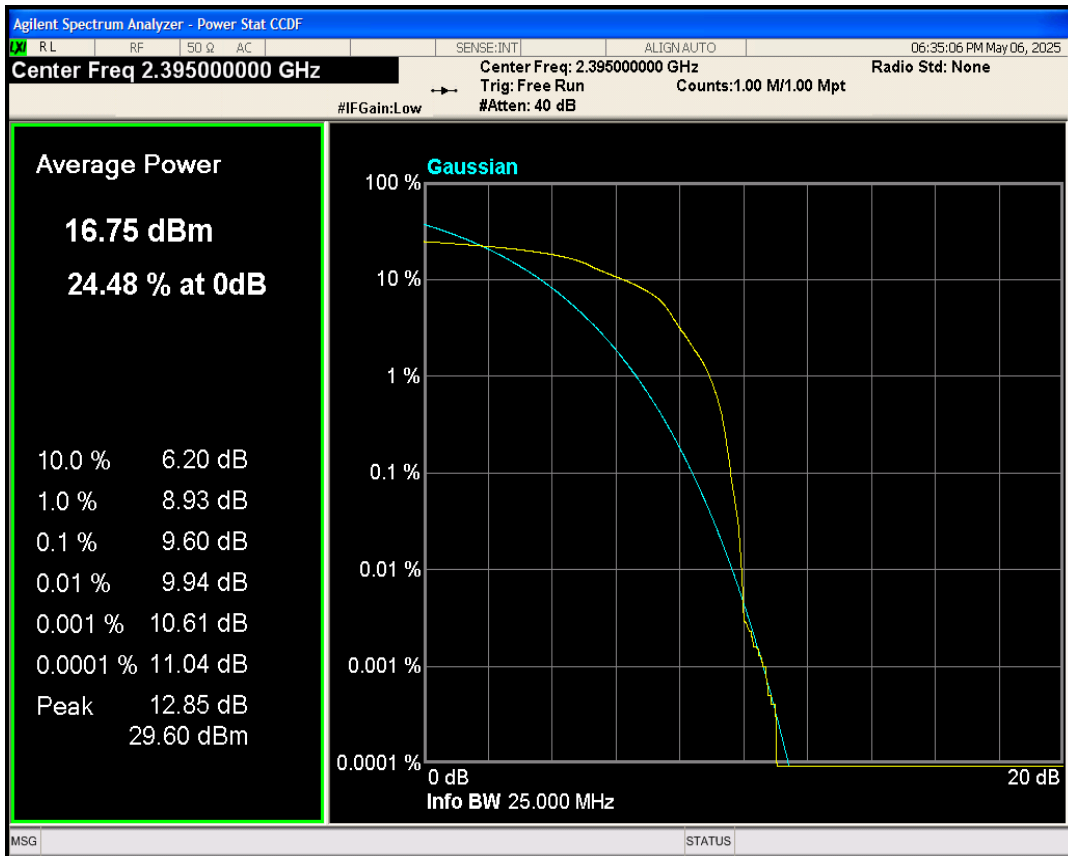




Band40 QPSK BW=10MHz Channel=39600 RB Size=1 Position=#0

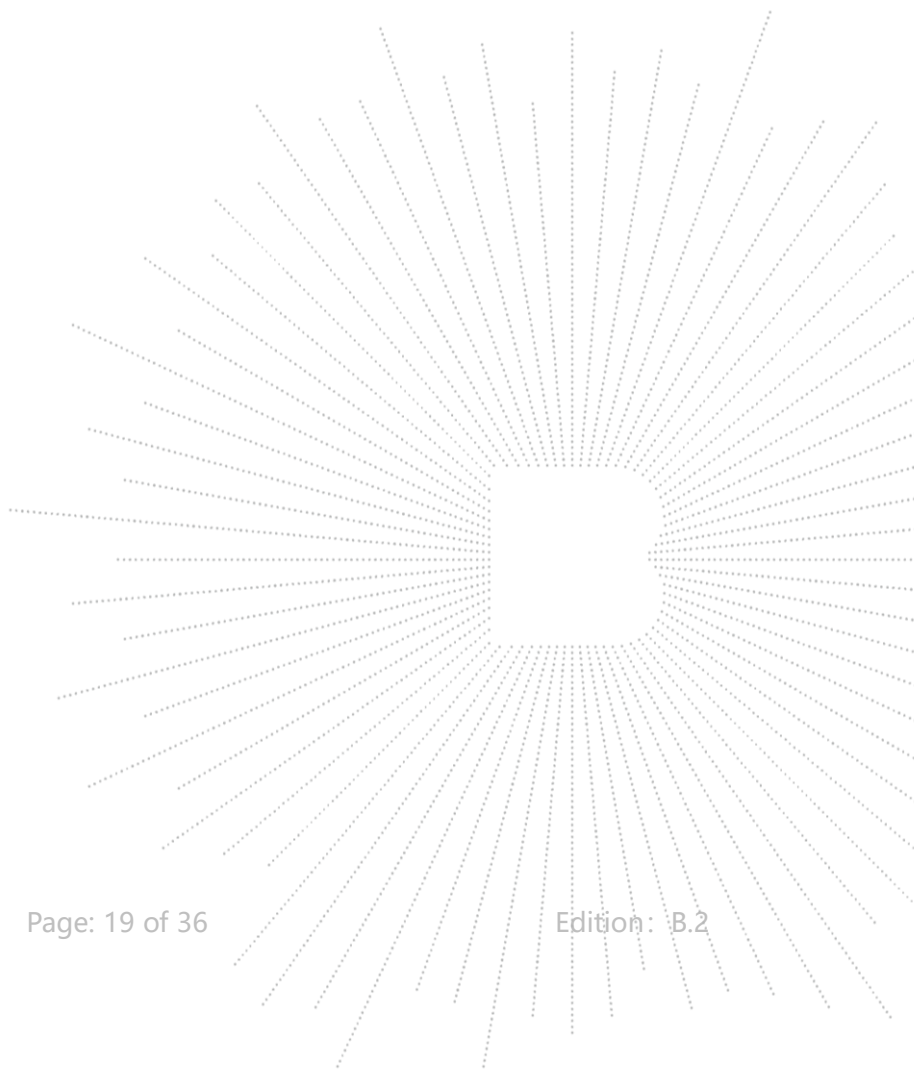


Band40 16QAM BW=10MHz Channel=39600 RB Size=1 Position=#0



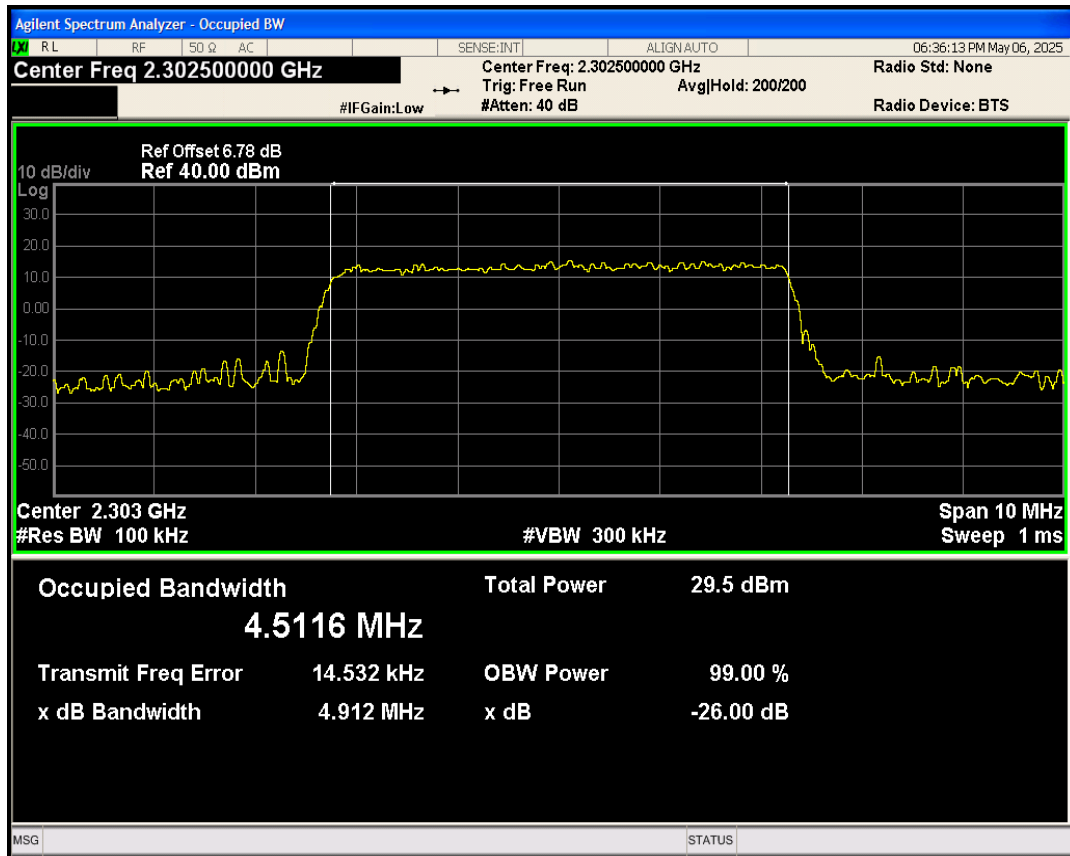
Appendix 4. Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band40	5	38675	25	#0	QPSK	4.512	4.912	PASS
Band40	5	38675	25	#0	16QAM	4.501	4.872	PASS
Band40	5	39150	25	#0	QPSK	4.513	5.006	PASS
Band40	5	39150	25	#0	16QAM	4.495	5.253	PASS
Band40	5	39625	25	#0	QPSK	4.507	4.999	PASS
Band40	5	39625	25	#0	16QAM	4.495	4.924	PASS
Band40	10	38700	50	#0	QPSK	8.973	9.680	PASS
Band40	10	38700	50	#0	16QAM	8.999	9.871	PASS
Band40	10	39150	50	#0	QPSK	8.987	9.982	PASS
Band40	10	39150	50	#0	16QAM	8.989	9.781	PASS
Band40	10	39600	50	#0	QPSK	8.986	9.836	PASS
Band40	10	39600	50	#0	16QAM	8.961	9.785	PASS

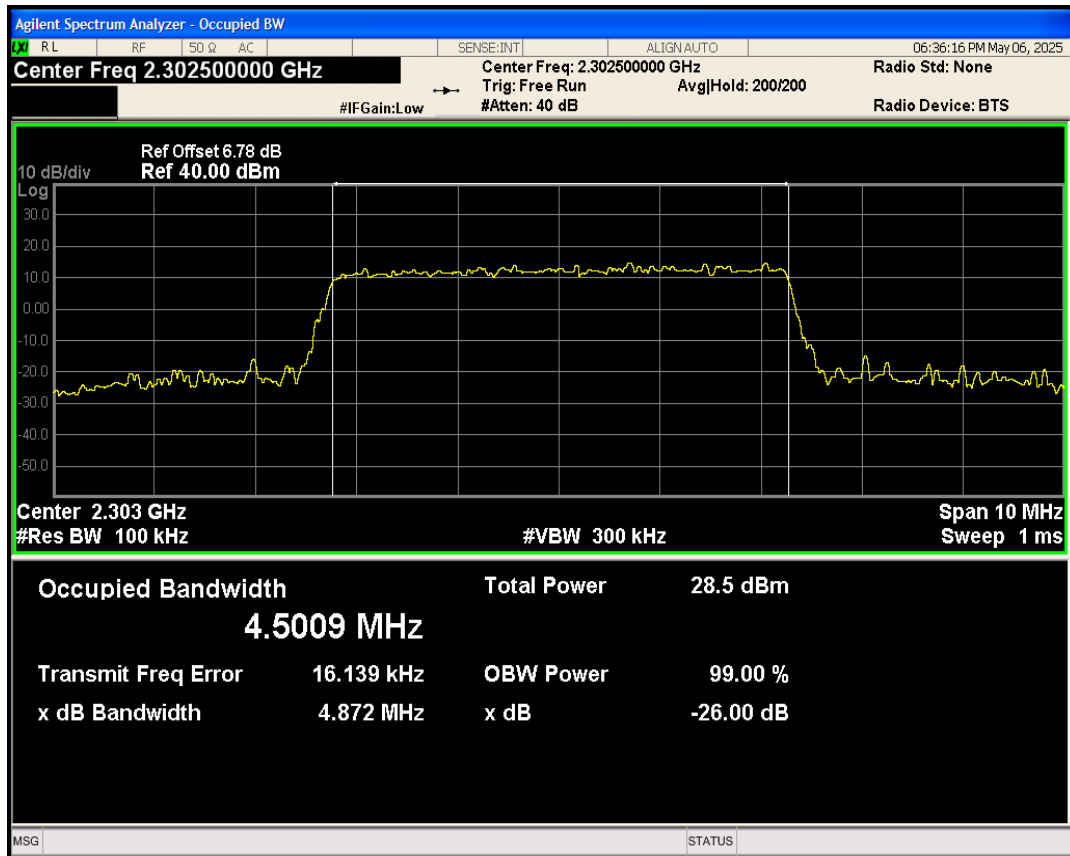




Band40 QPSK BW=5MHz Channel=38675 RB Size=25 Position=#0

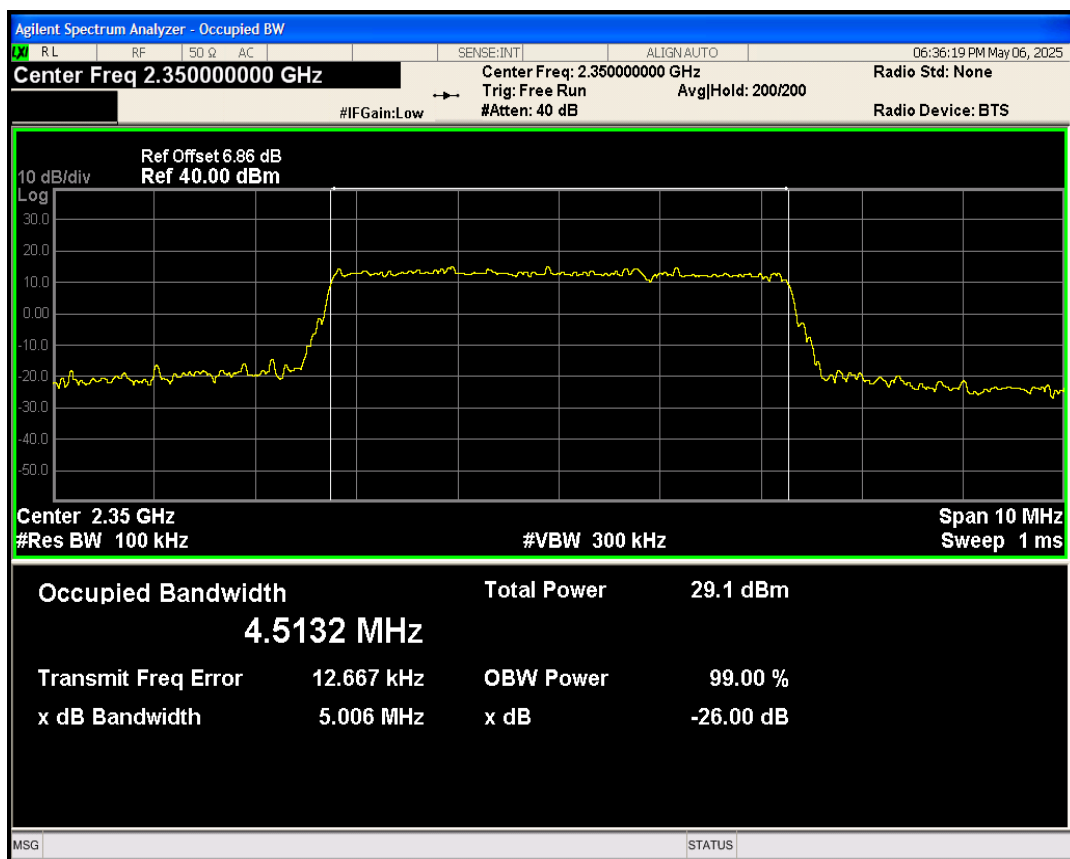


Band40 16QAM BW=5MHz Channel=38675 RB Size=25 Position=#0

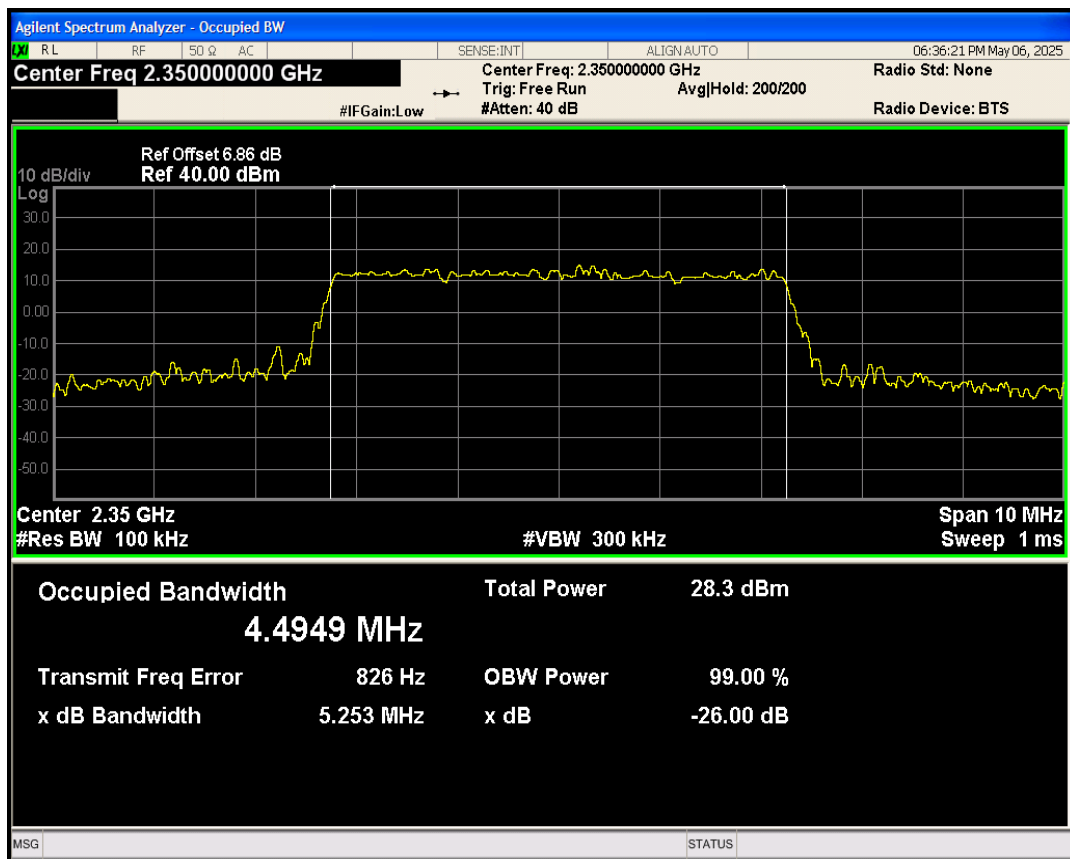




Band40 QPSK BW=5MHz Channel=39150 RB Size=25 Position=#0

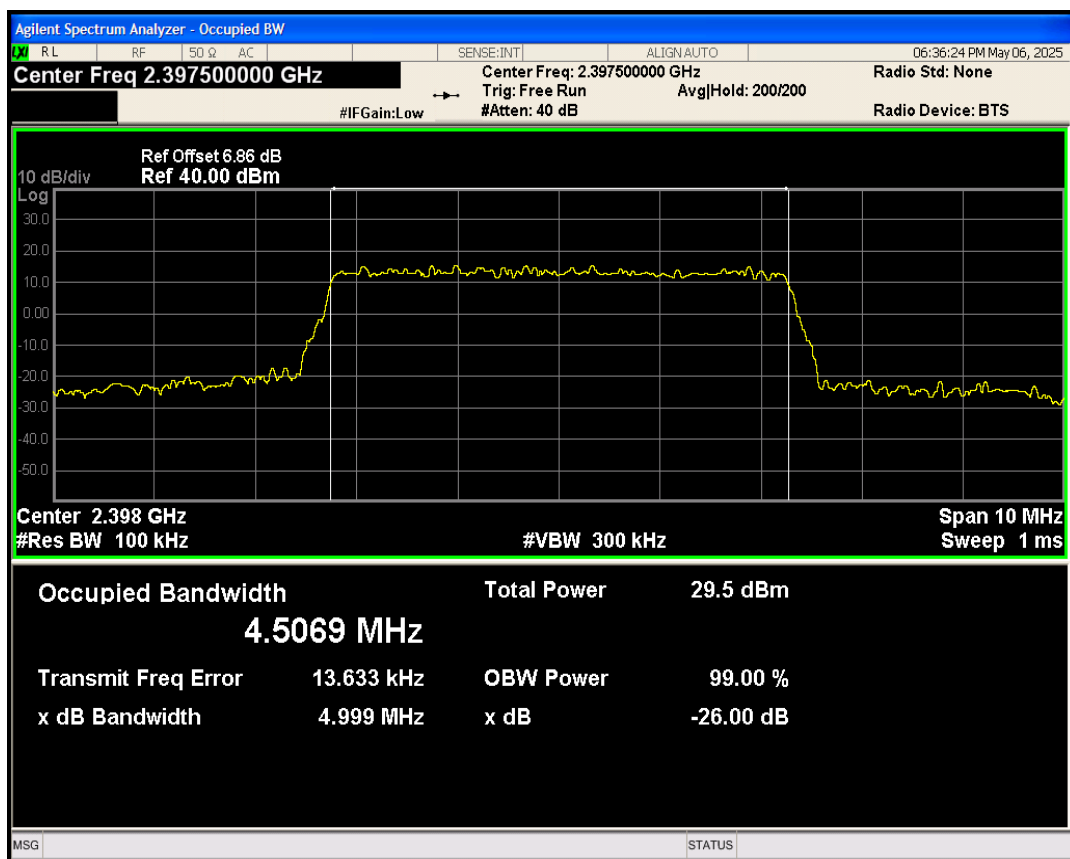


Band40 16QAM BW=5MHz Channel=39150 RB Size=25 Position=#0

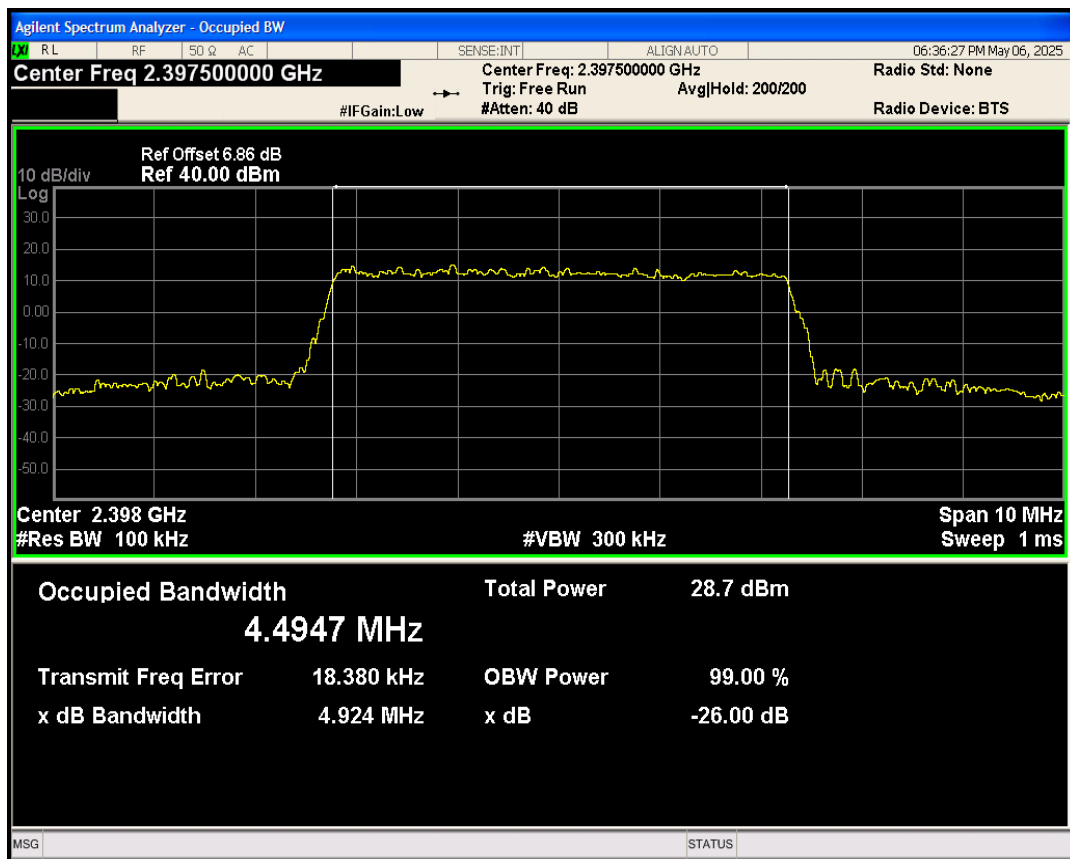




Band40 QPSK BW=5MHz Channel=39625 RB Size=25 Position=#0

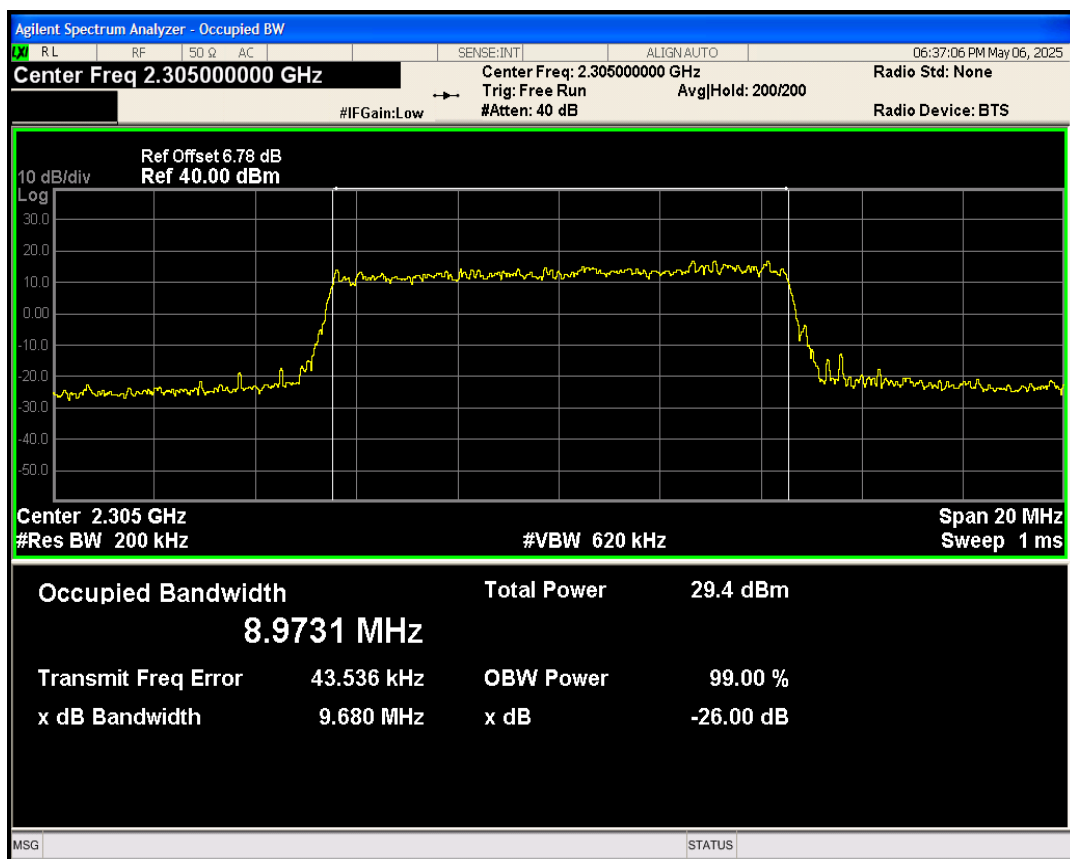


Band40 16QAM BW=5MHz Channel=39625 RB Size=25 Position=#0

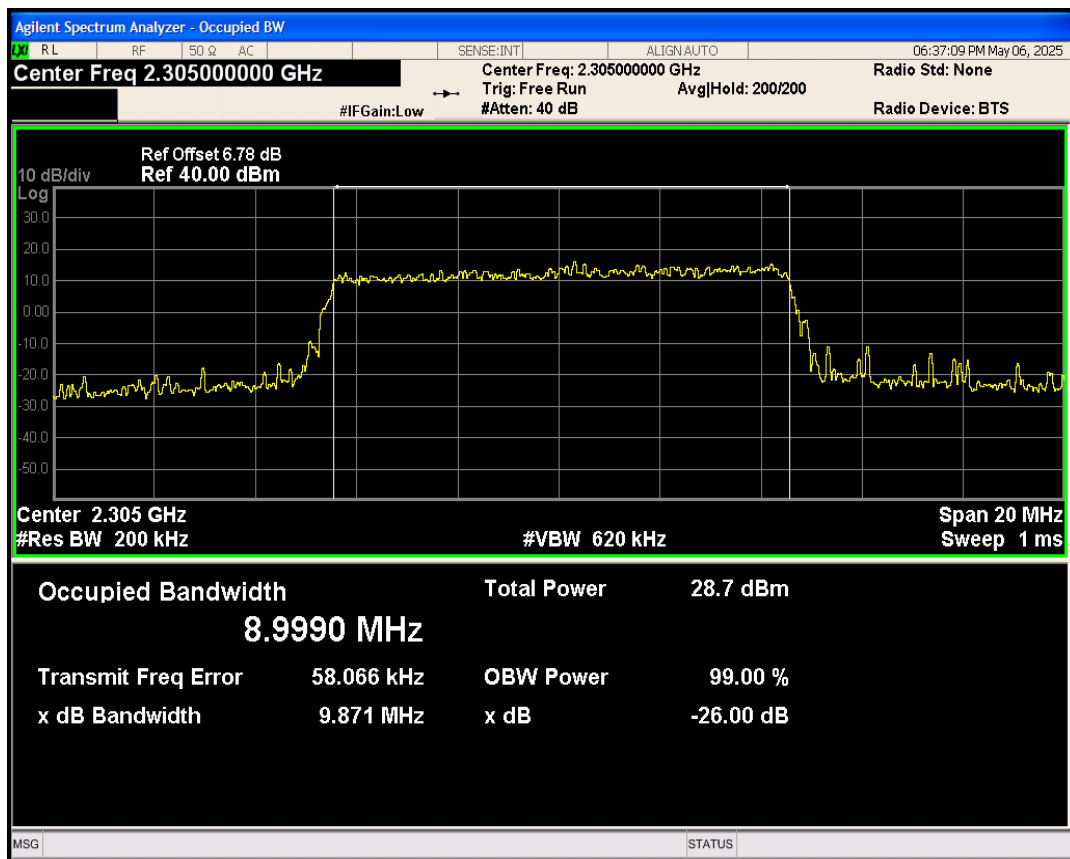




Band40 QPSK BW=10MHz Channel=38700 RB Size=50 Position=#0

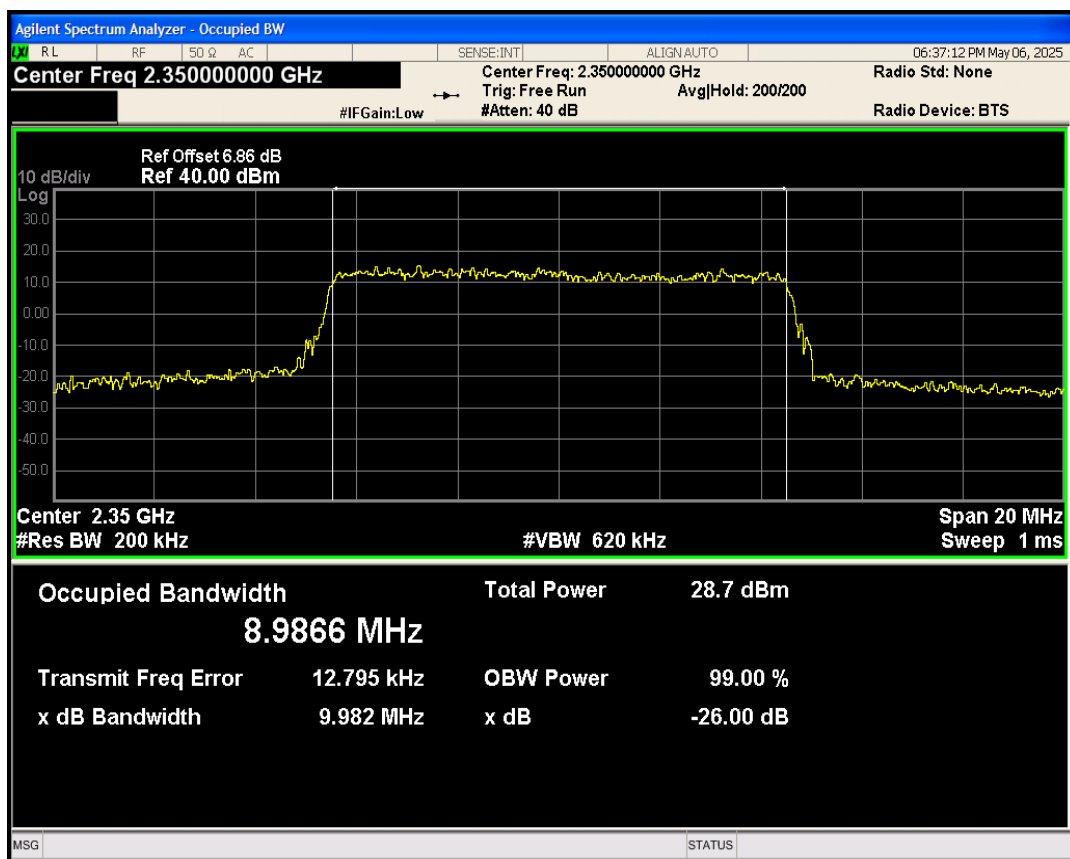


Band40 16QAM BW=10MHz Channel=38700 RB Size=50 Position=#0

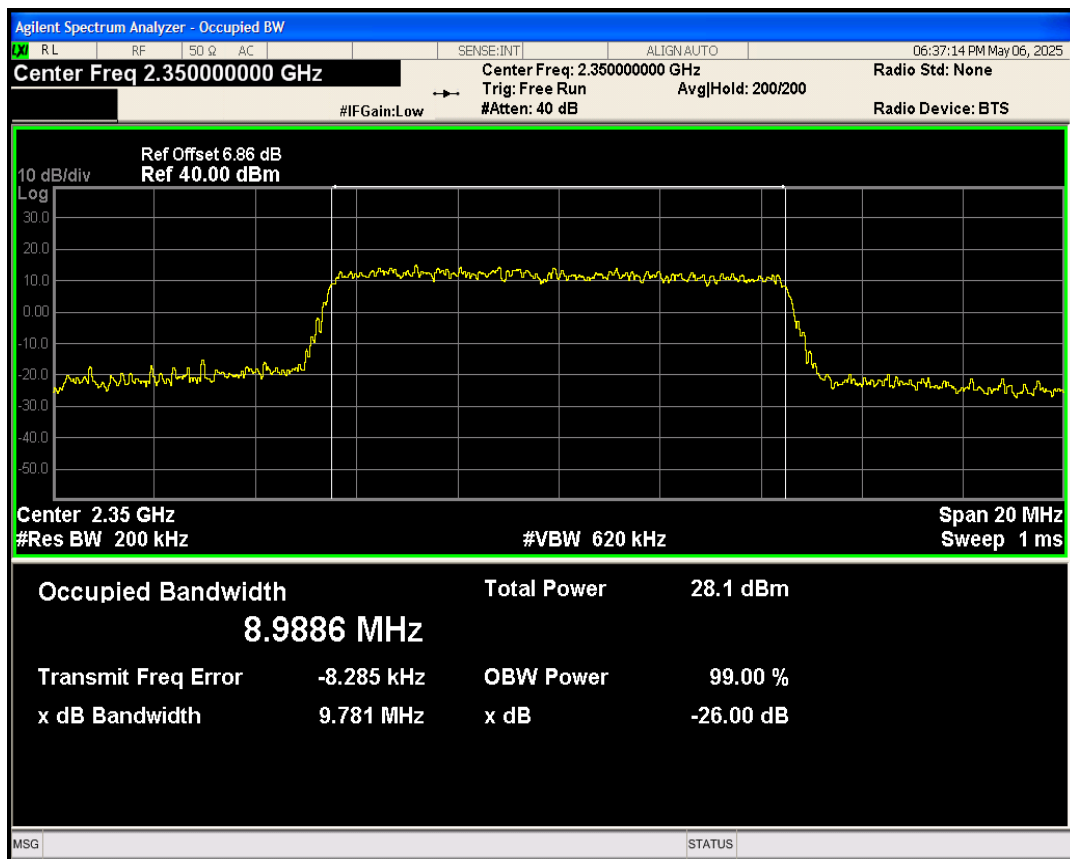




Band40 QPSK BW=10MHz Channel=39150 RB Size=50 Position=#0

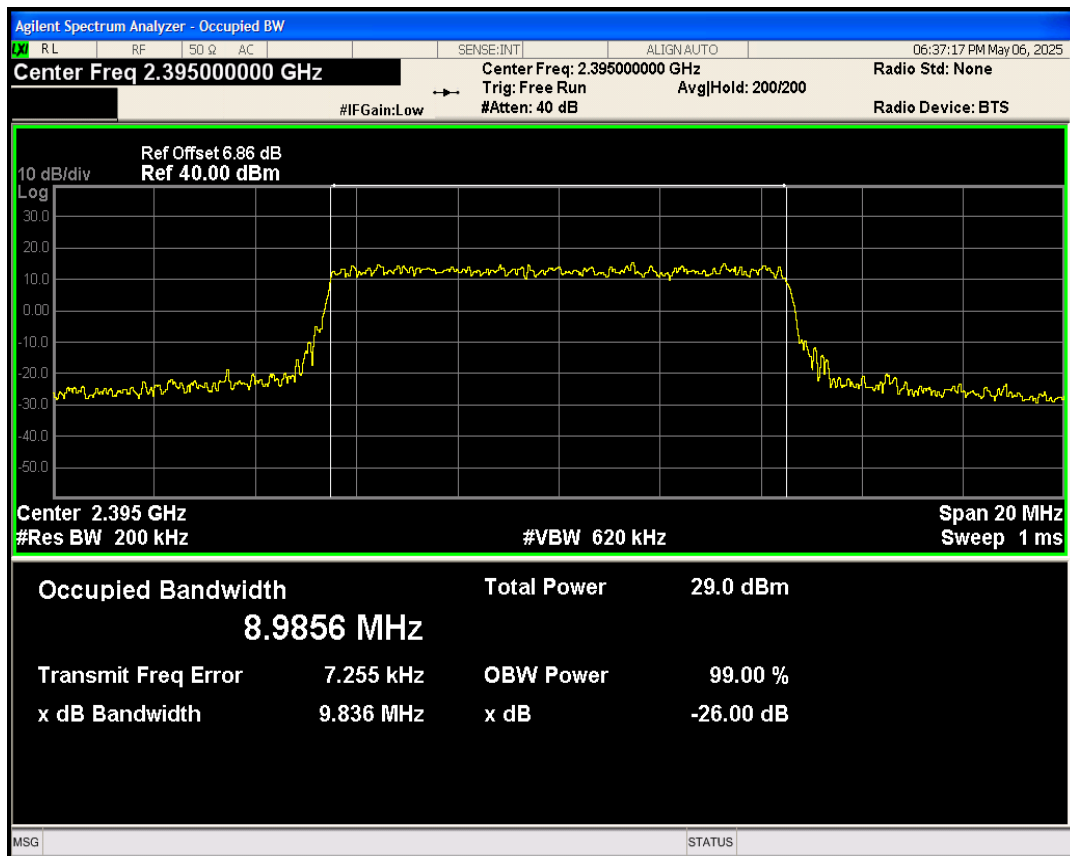


Band40 16QAM BW=10MHz Channel=39150 RB Size=50 Position=#0

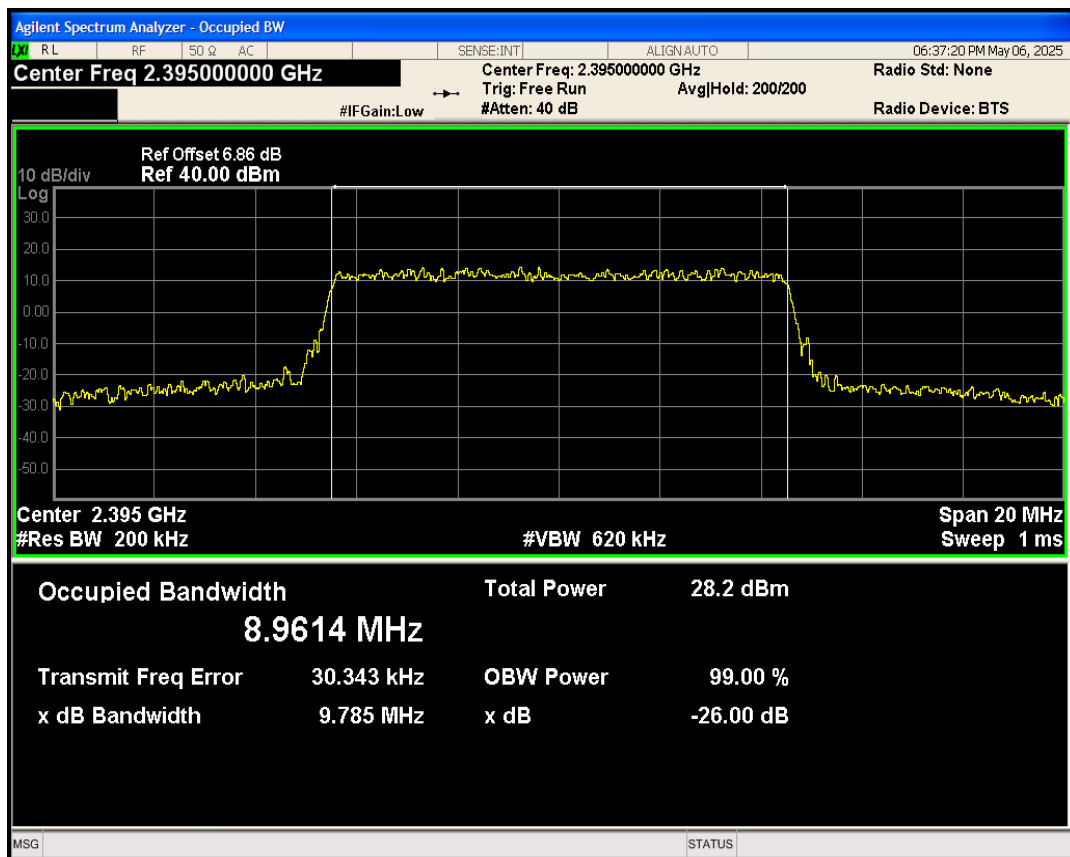




Band40 QPSK BW=10MHz Channel=39600 RB Size=50 Position=#0

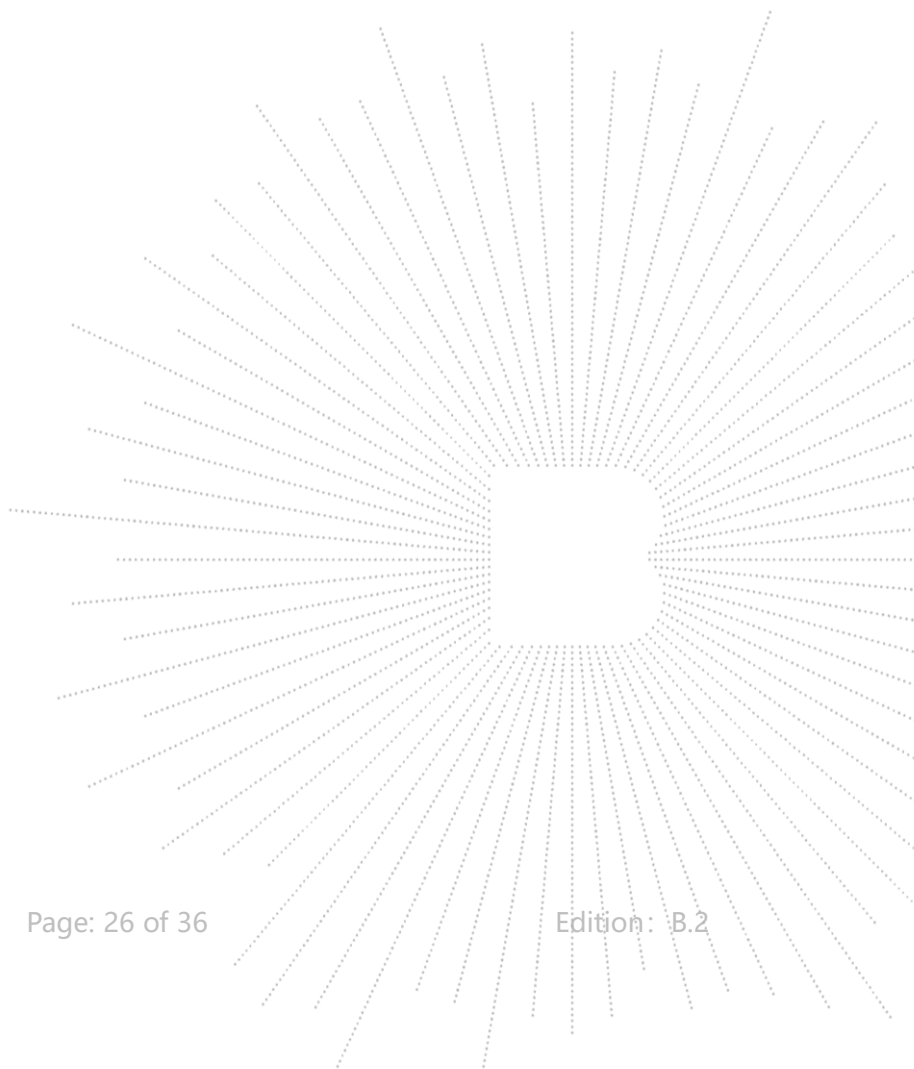


Band40 16QAM BW=10MHz Channel=39600 RB Size=50 Position=#0



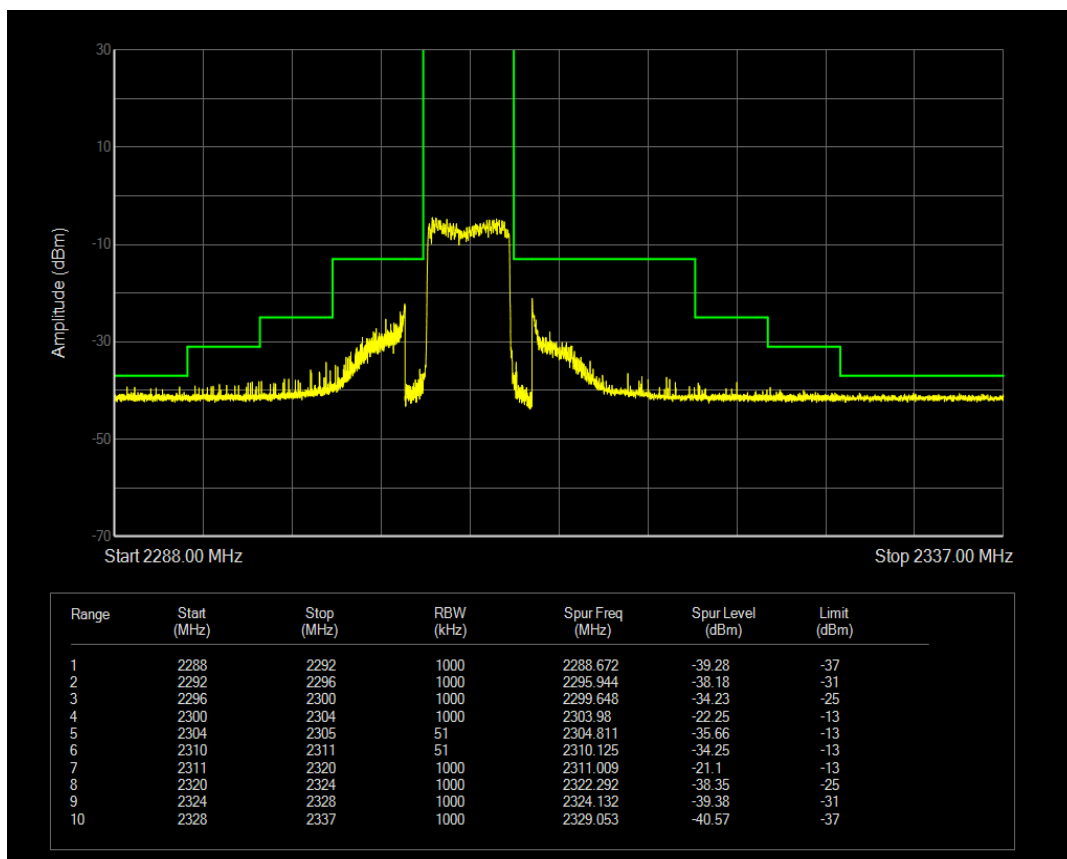
Appendix 5. Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band40	5	38725	25	#0	QPSK	2288.67	-39.28	-37	PASS
Band40	5	38725	25	#0	16QAM	2290.75	-39.29	-37	PASS
Band40	5	38775	25	#0	QPSK	2291.20	-39.19	-37	PASS
Band40	5	38775	25	#0	16QAM	2328.39	-40.00	-37	PASS
Band40	10	38750	50	#0	QPSK	2290.83	-39.12	-37	PASS
Band40	10	38750	50	#0	16QAM	2291.93	-39.53	-37	PASS

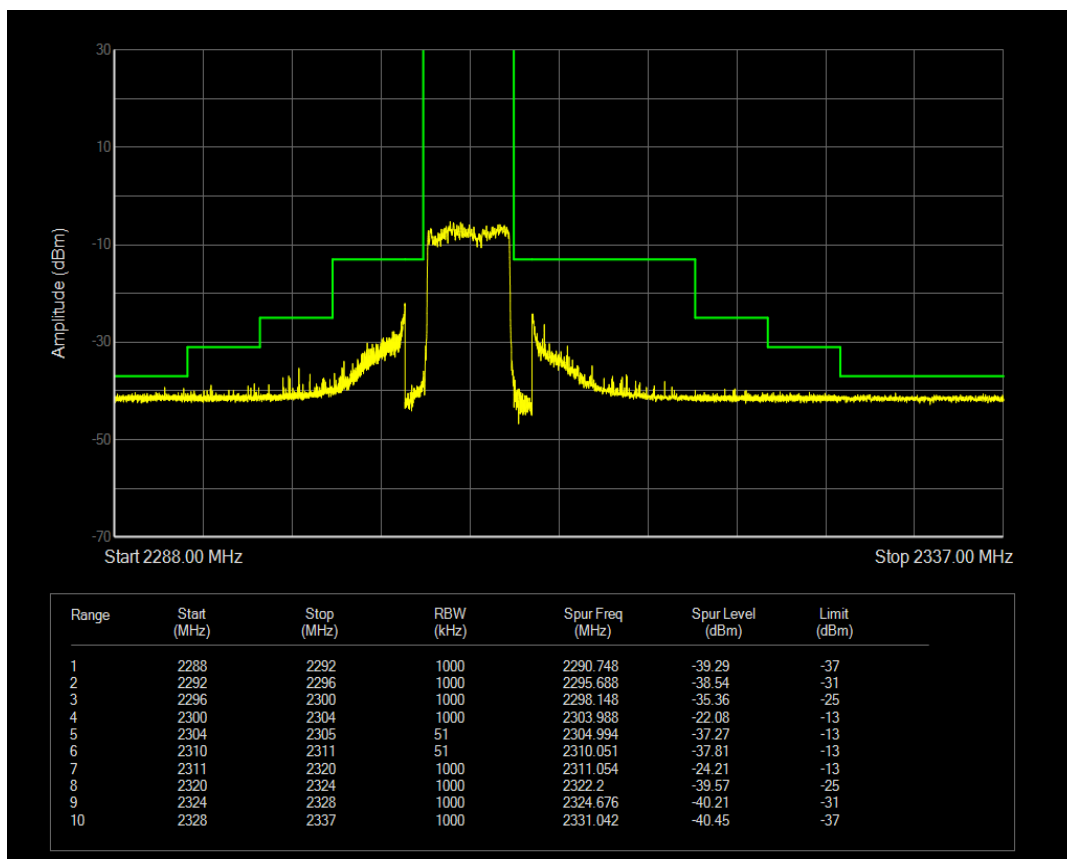




Band40 QPSK BW=5MHz Channel=38725 RB Size=25 Position=#0 NVNT

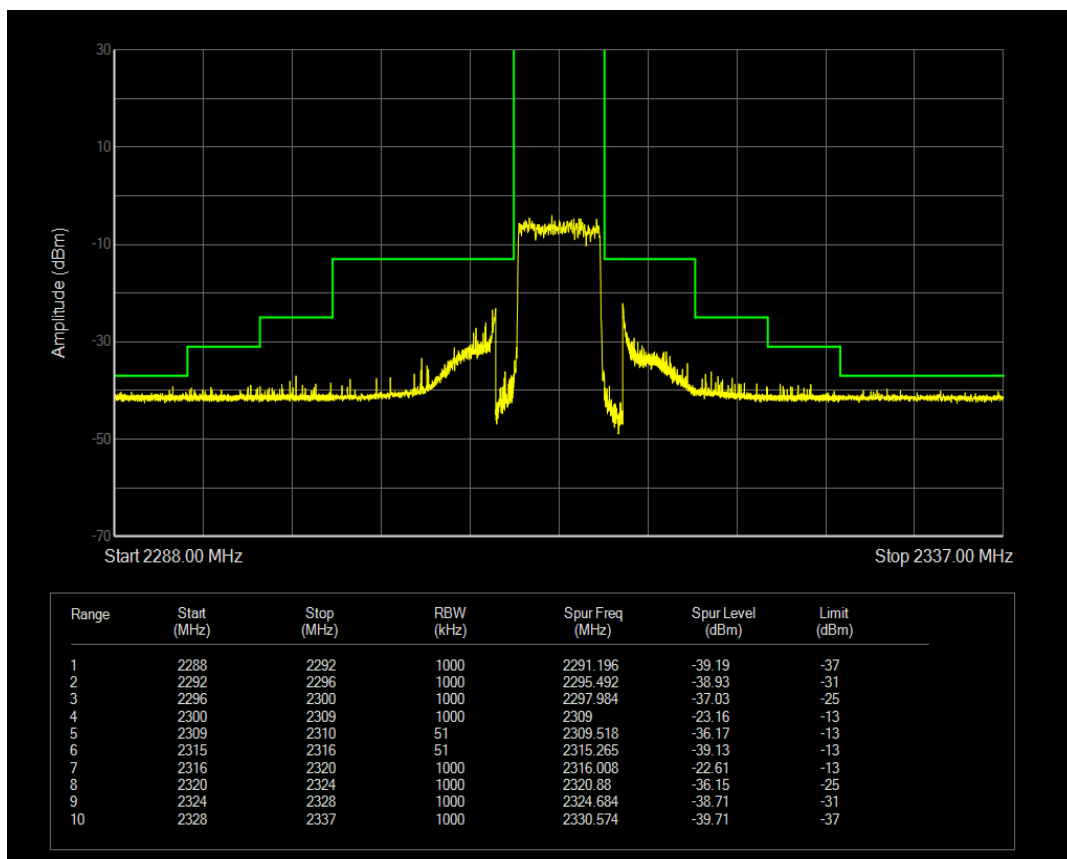


Band40 16QAM BW=5MHz Channel=38725 RB Size=25 Position=#0 NVNT

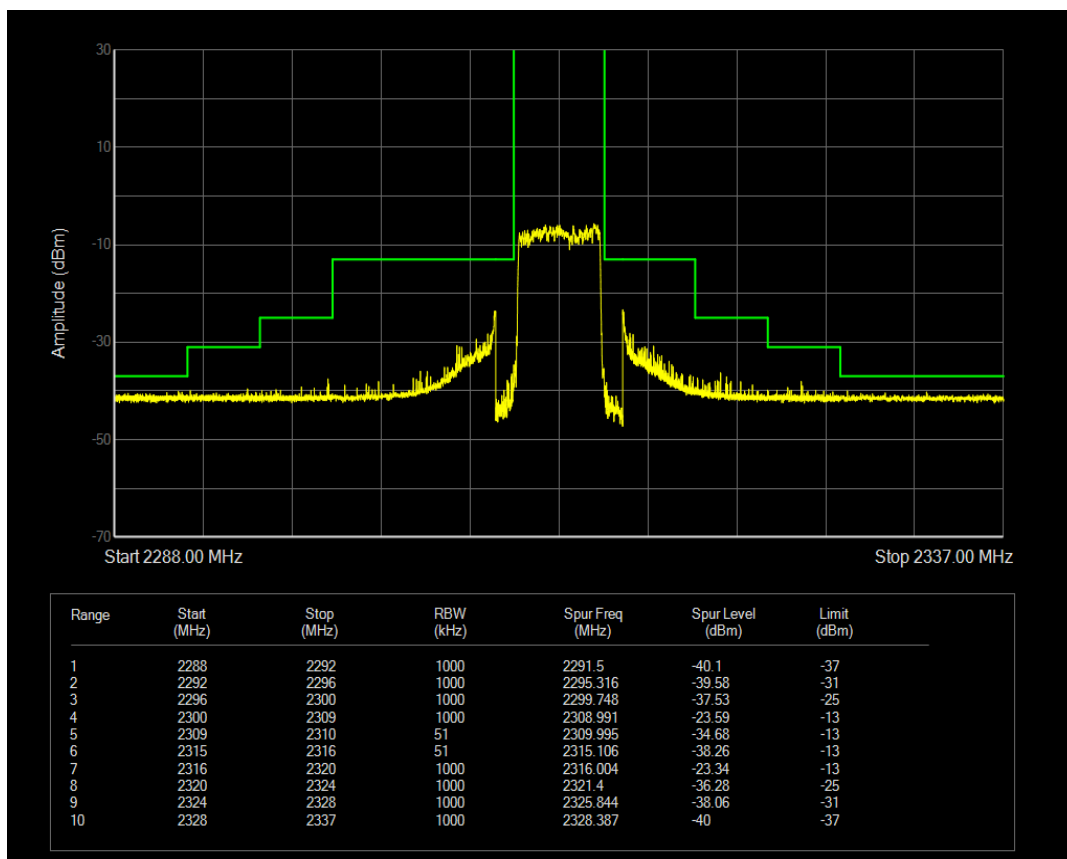




Band40 QPSK BW=5MHz Channel=38775 RB Size=25 Position=#0 NVNT

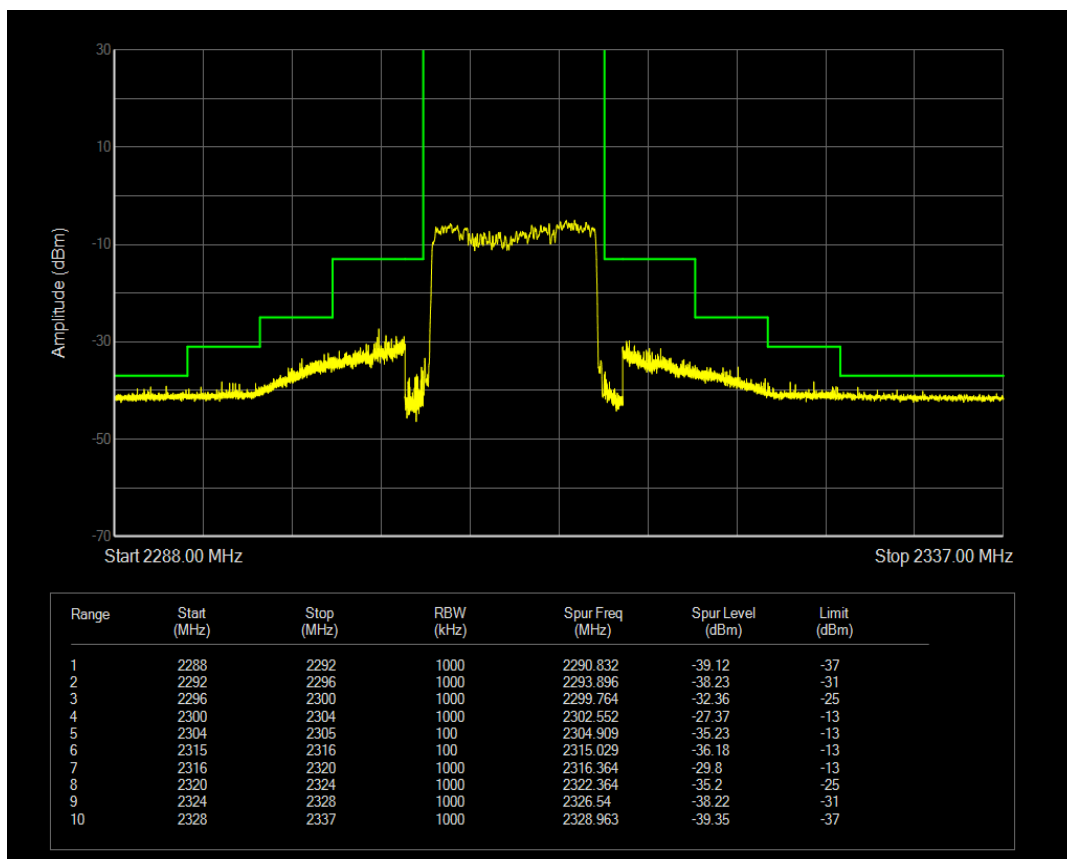


Band40 16QAM BW=5MHz Channel=38775 RB Size=25 Position=#0 NVNT

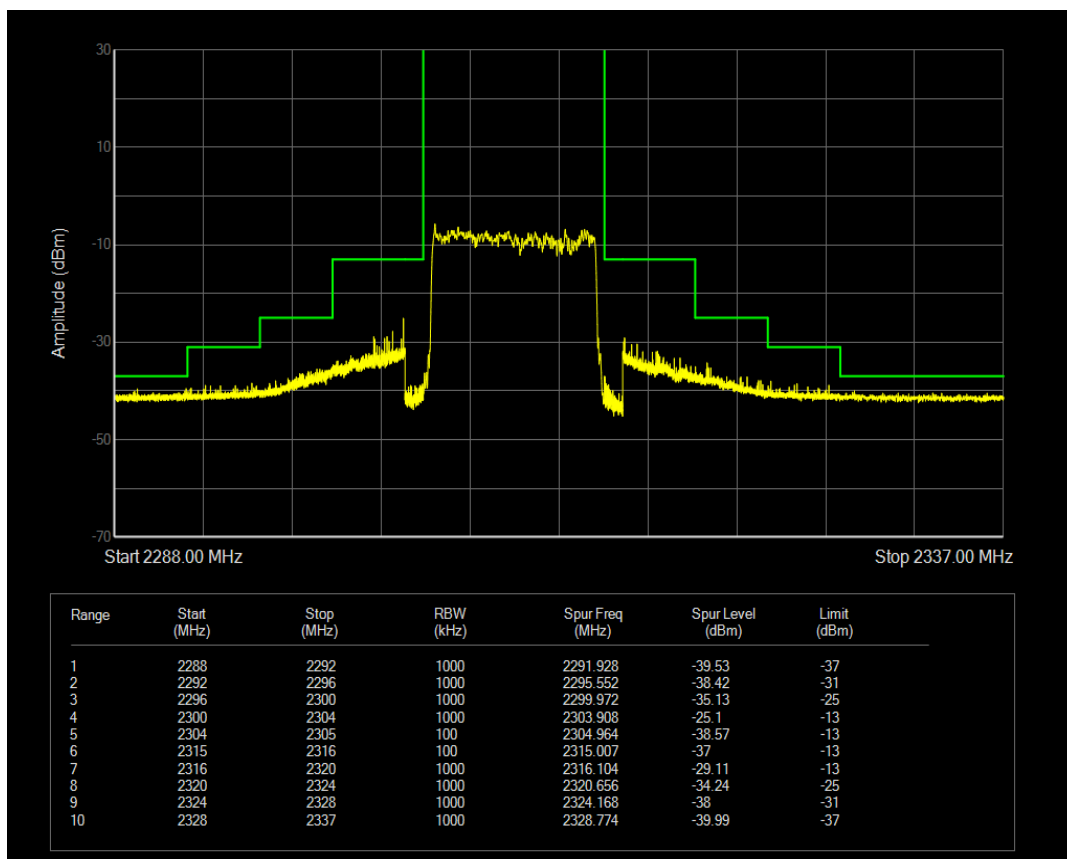




Band40 QPSK BW=10MHz Channel=38750 RB Size=50 Position=#0 NVNT

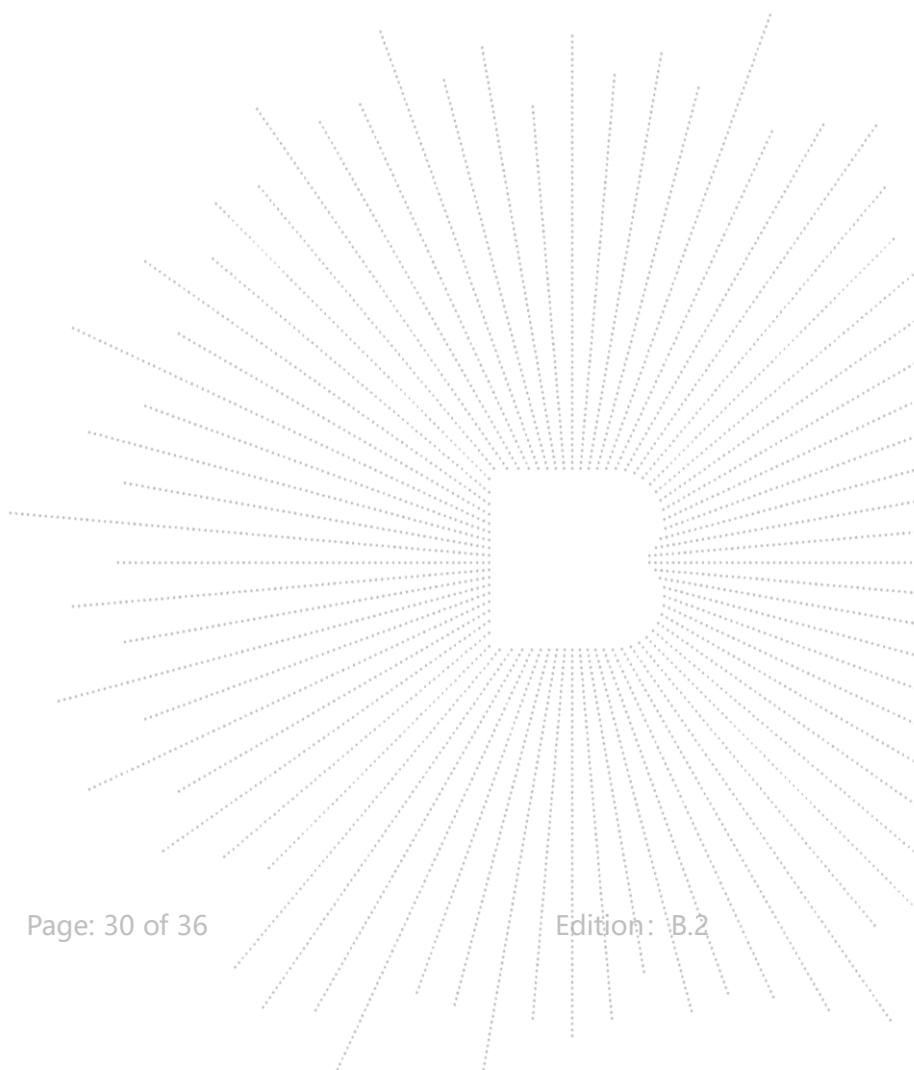


Band4016QAM BW=10MHz Channel=38750 RB Size=50 Position=#0 NVNT



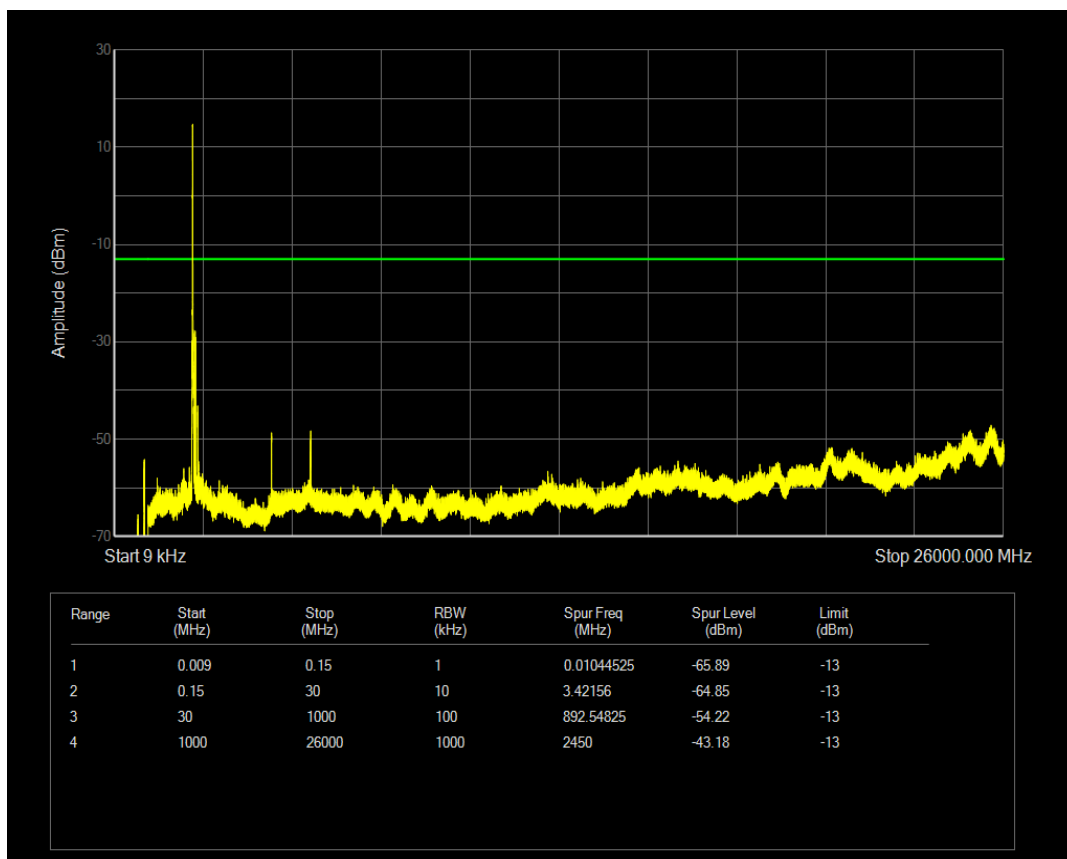
Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band40	5	38675	25	#0	QPSK	2450.00	-43.18	-13	PASS
Band40	5	38675	25	#0	16QAM	2278.13	-26.87	-13	PASS
Band40	5	39150	25	#0	QPSK	2453.75	-40.24	-40	PASS
Band40	5	39150	25	#0	16QAM	2453.13	-41.28	-40	PASS
Band40	5	39625	25	#0	QPSK	2454.38	-41.43	-13	PASS
Band40	5	39625	25	#0	16QAM	1743.75	-38.98	-13	PASS
Band40	10	38700	50	#0	QPSK	25585.63	-46.66	-40	PASS
Band40	10	38700	50	#0	16QAM	2454.38	-42.84	-40	PASS
Band40	10	39150	50	#0	QPSK	2453.75	-43.72	-40	PASS
Band40	10	39150	50	#0	16QAM	1511.88	-45.23	-40	PASS
Band40	10	39600	50	#0	QPSK	1731.25	-46.24	-13	PASS
Band40	10	39600	50	#0	16QAM	25660.00	-46.74	-13	PASS

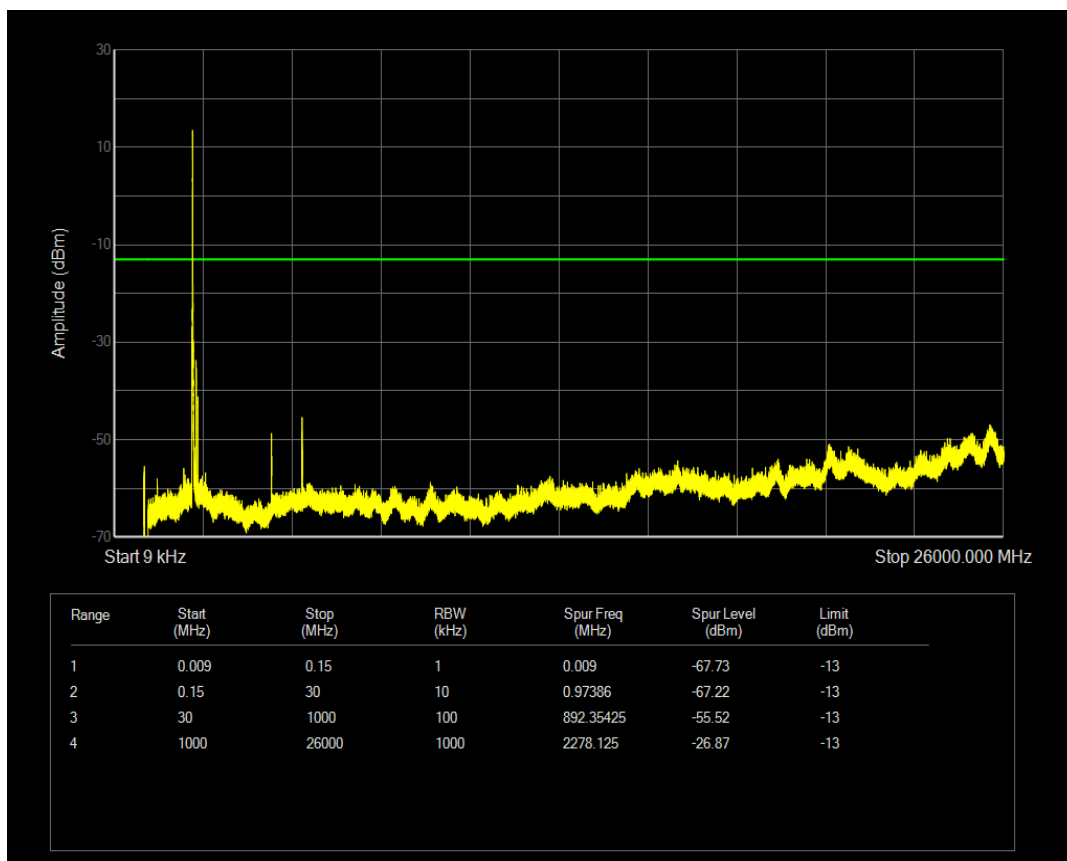




Band40 QPSK BW=5MHz Channel=38675 RB Size=25 Position=#0

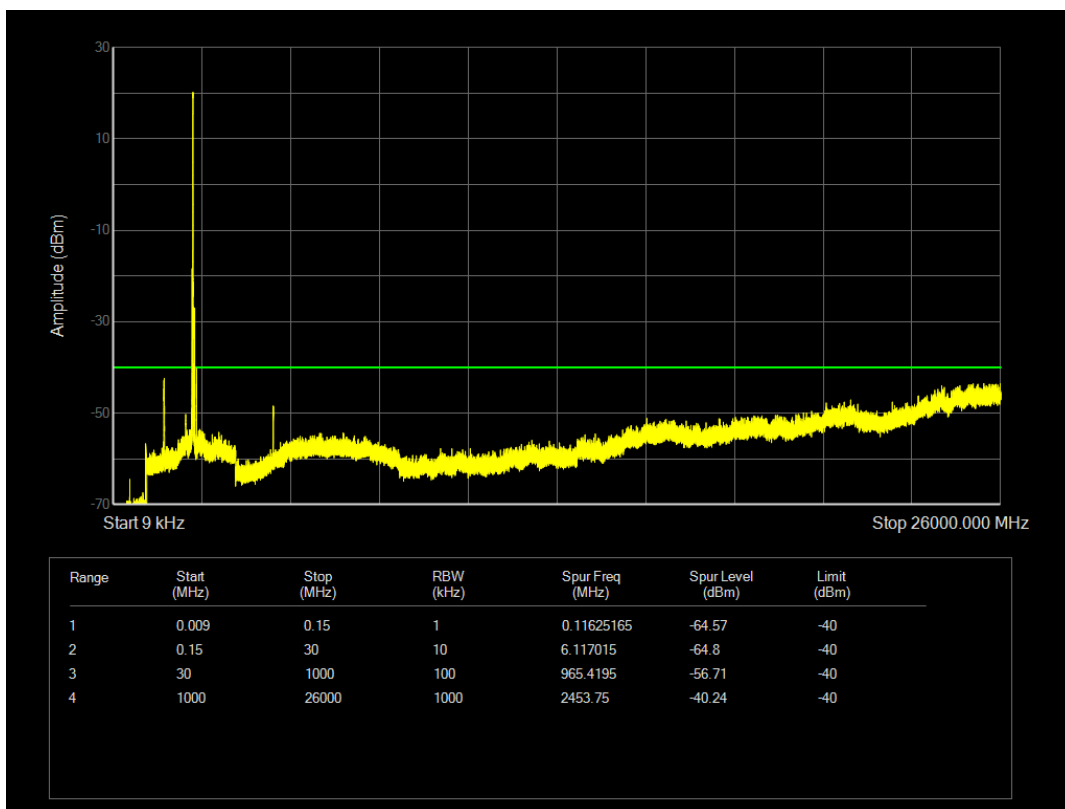


Band40 16QAM BW=5MHz Channel=38675 RB Size=25 Position=#0

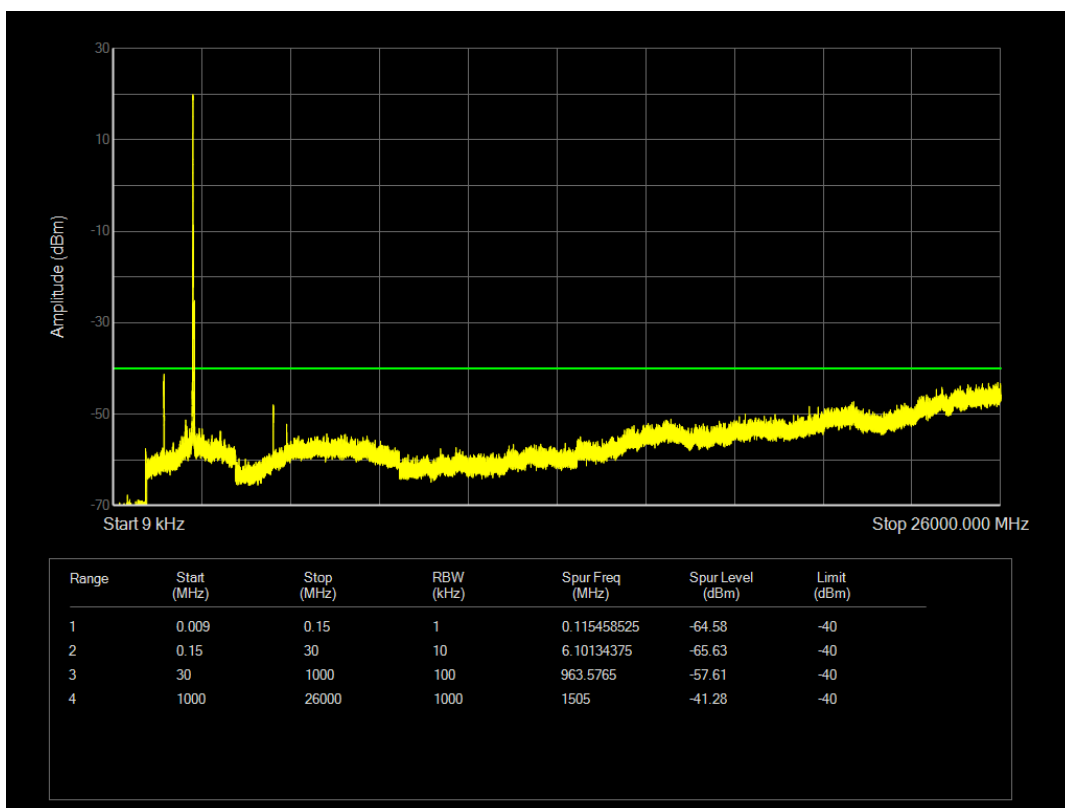




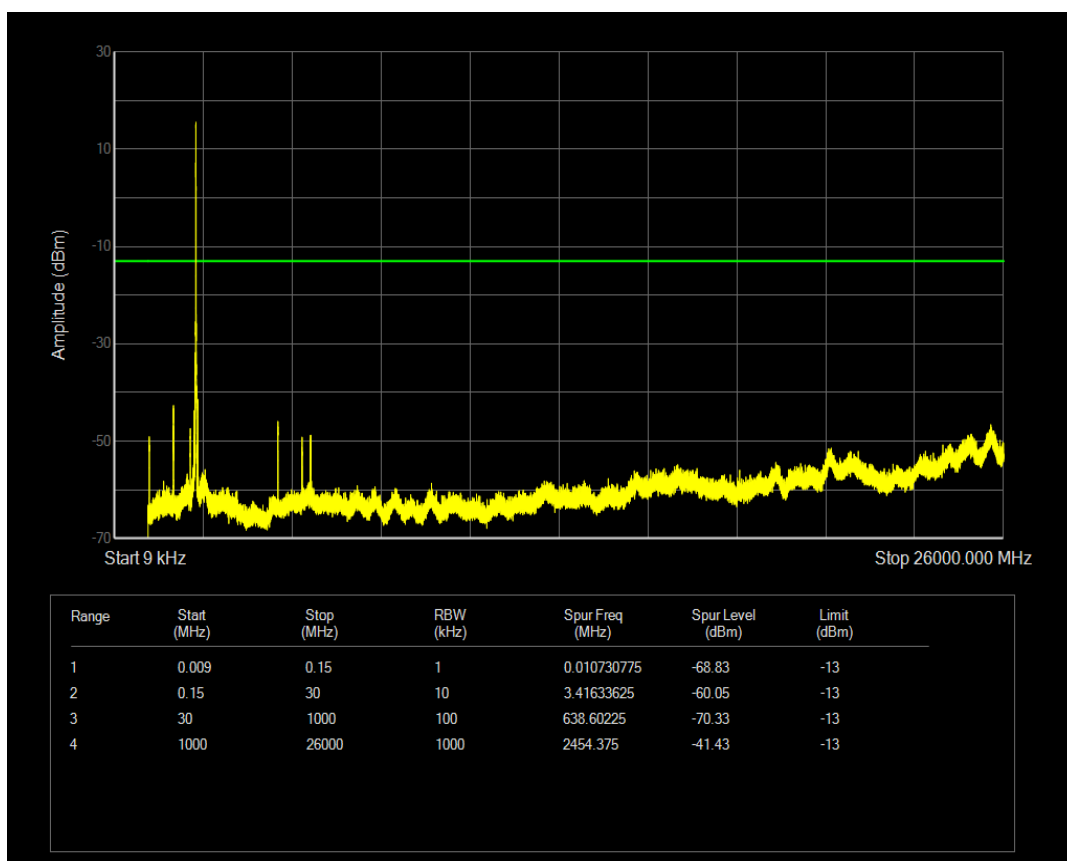
Band40 QPSK BW=5MHz Channel=39150 RB Size=25 Position=#0



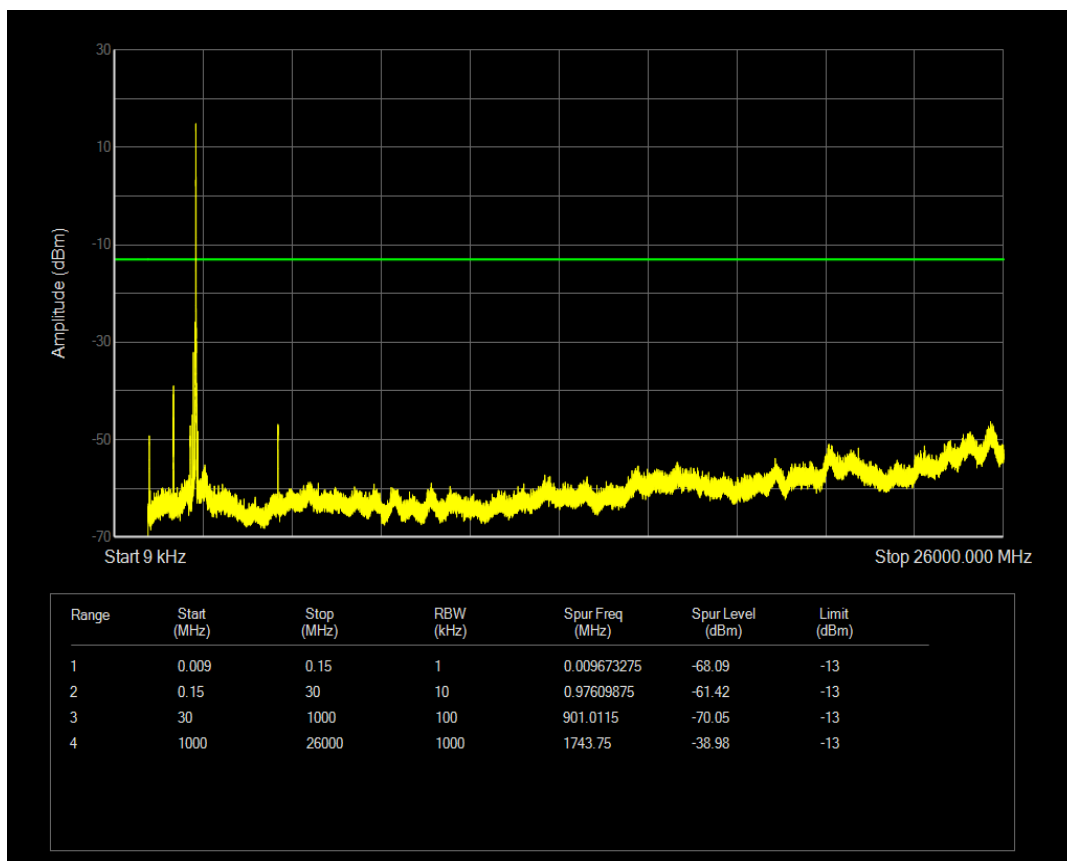
Band40 16QAM BW=5MHz Channel=39150 RB Size=25 Position=#0



Band40 QPSK BW=5MHz Channel=39625 RB Size=25 Position=#0

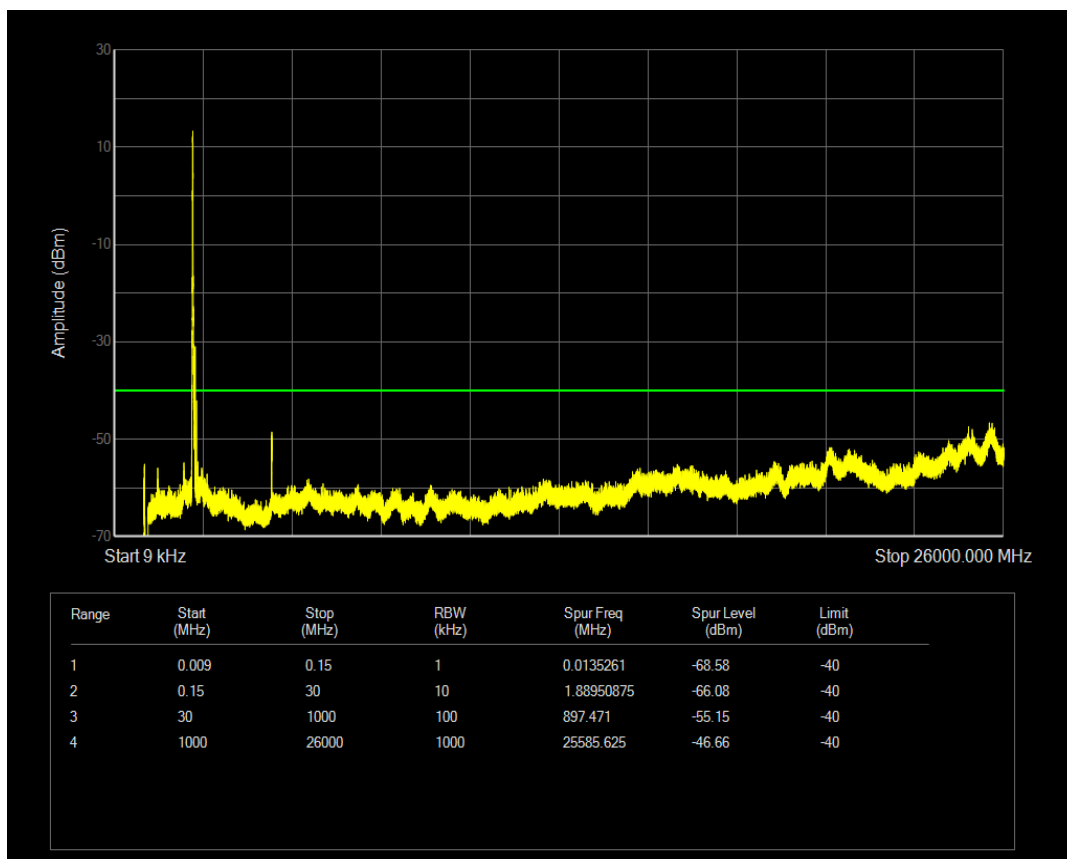


Band40 16QAM BW=5MHz Channel=39625 RB Size=25 Position=#0

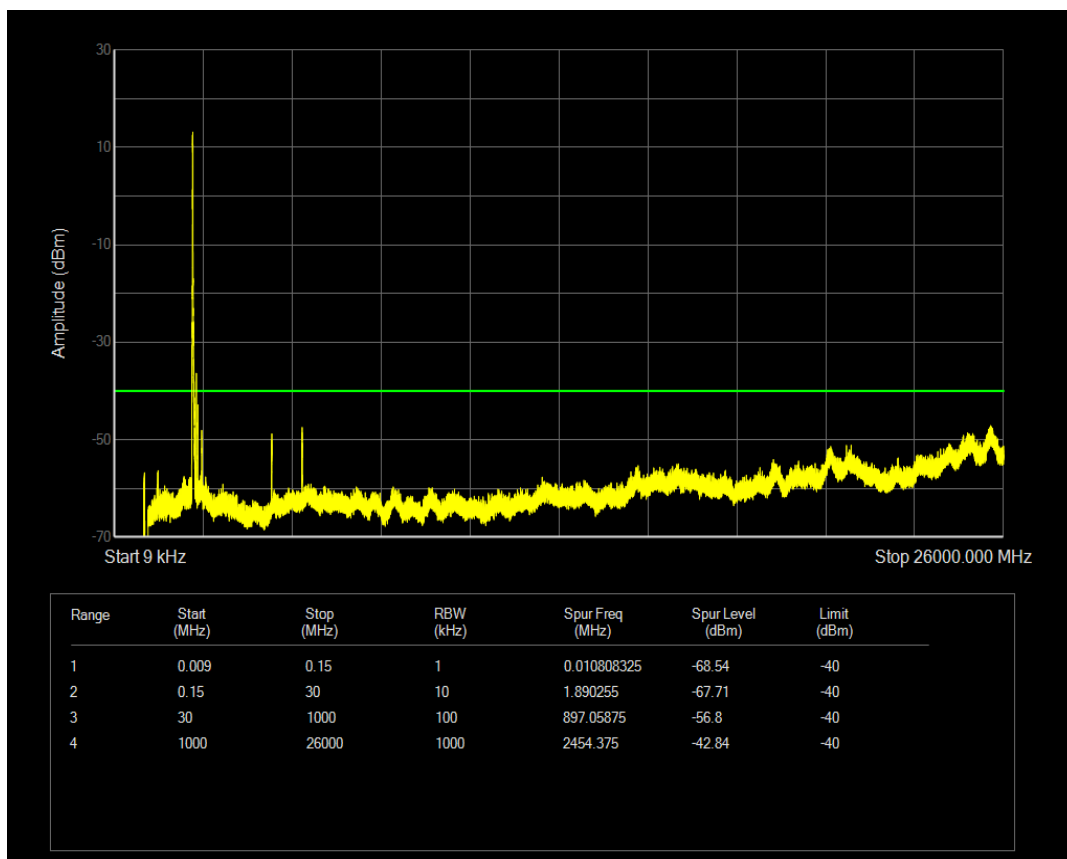




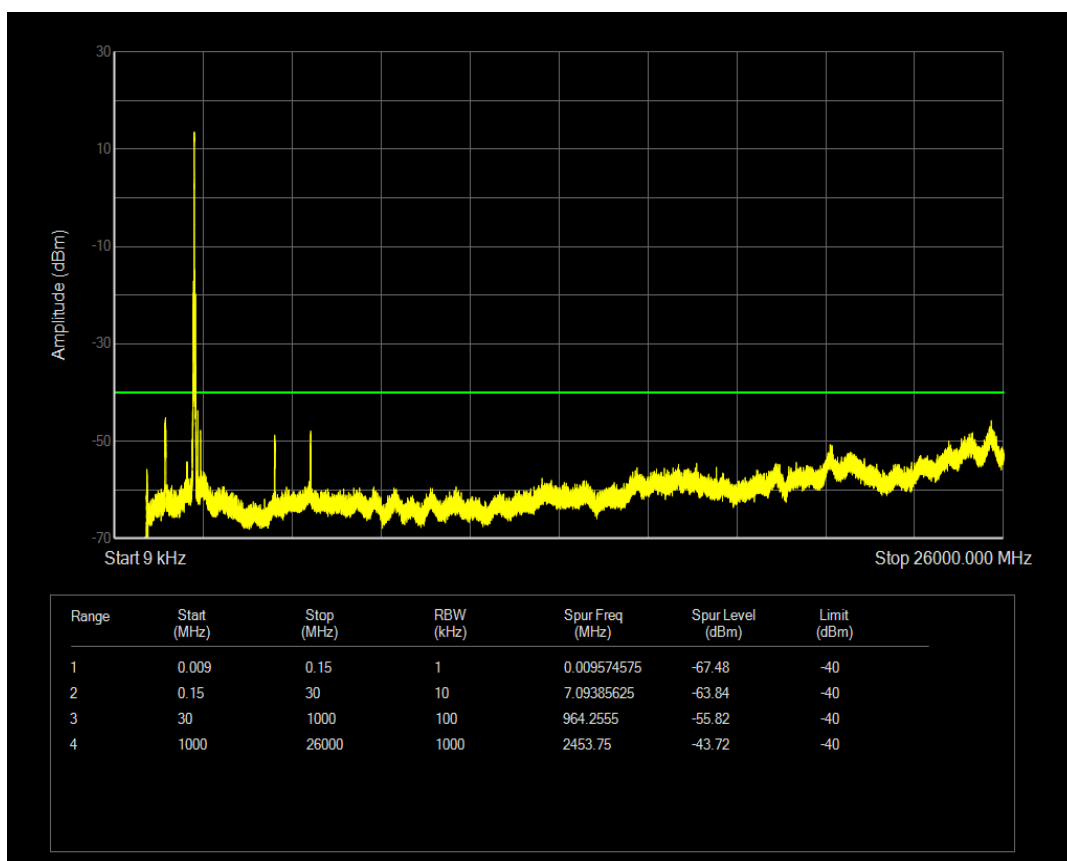
Band40 QPSK BW=10MHz Channel=38700 RB Size=50 Position=#0



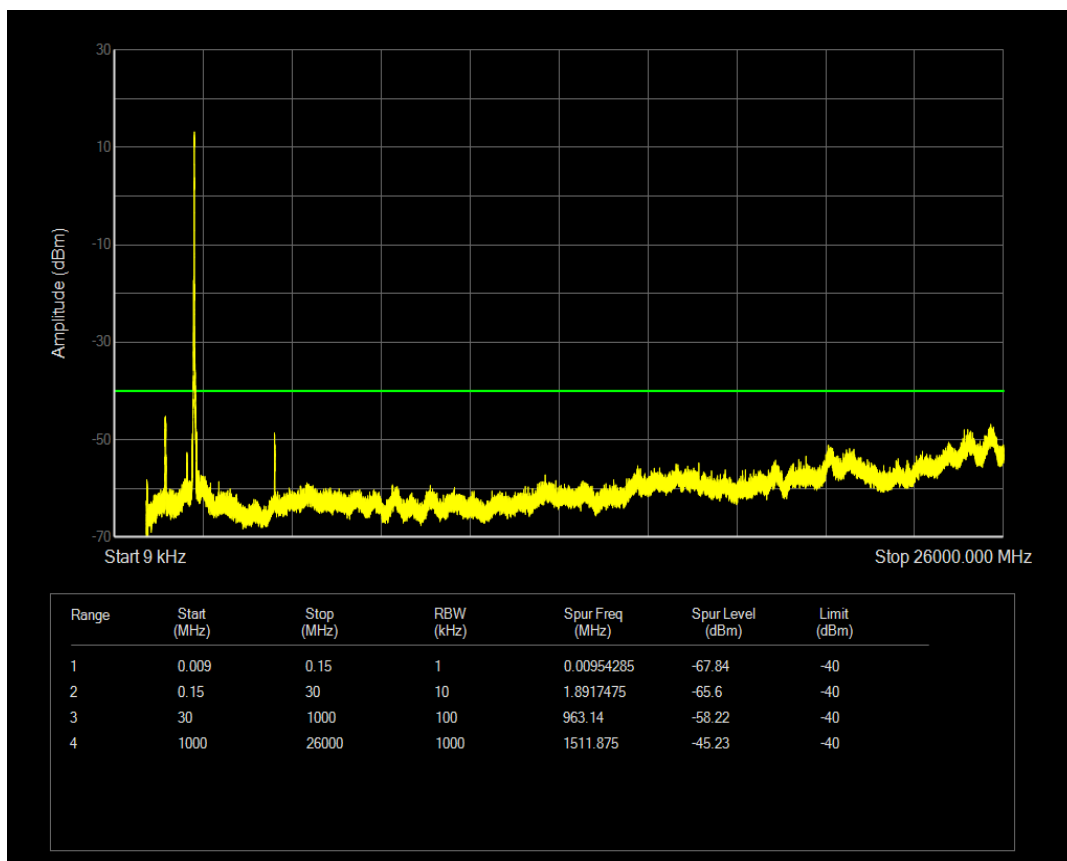
Band40 16QAM BW=10MHz Channel=38700 RB Size=50 Position=#0



Band40 QPSK BW=10MHz Channel=39150 RB Size=50 Position=#0

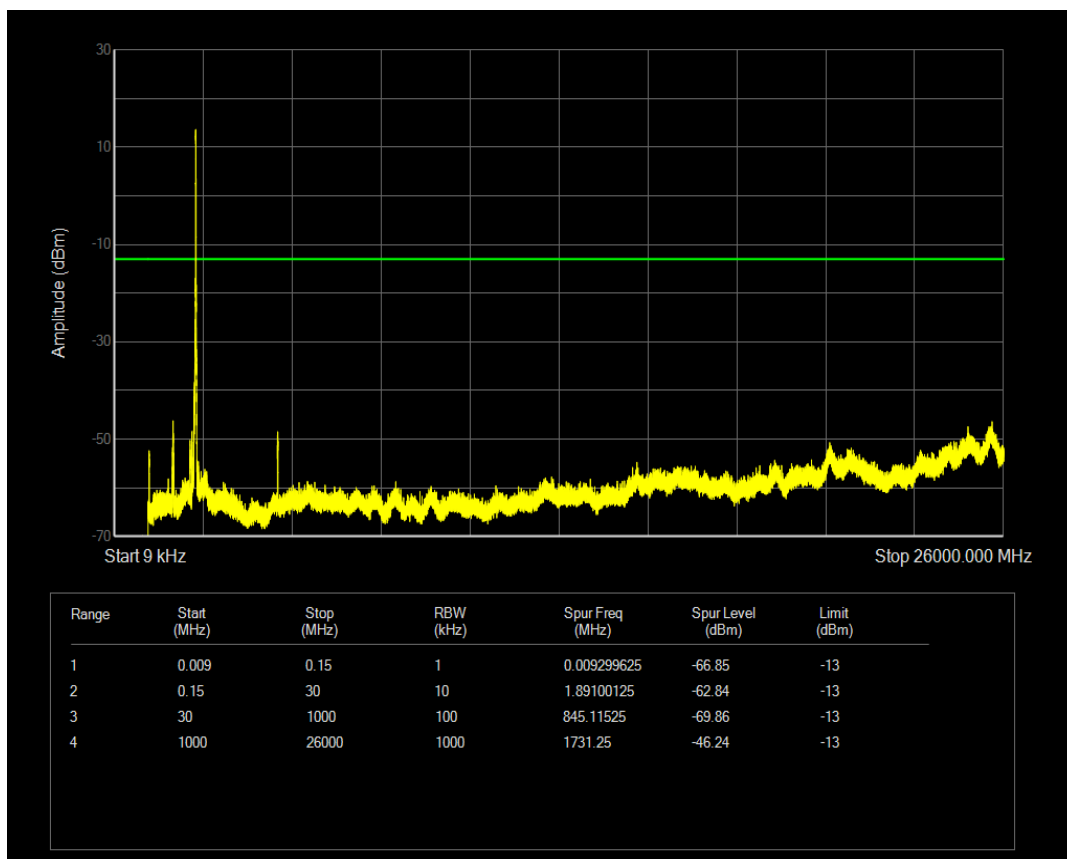


Band40 16QAM BW=10MHz Channel=39150 RB Size=50 Position=#0





Band40 QPSK BW=10MHz Channel=39600 RB Size=50 Position=#0



Band40 16QAM BW=10MHz Channel=39600 RB Size=50 Position=#0

