

Appendix for Band 2

Report No.: BCTC2309367965-2E

Applicant: Arize Corporation

Product Name: Smart Hub

Model/Type
reference: ASH120

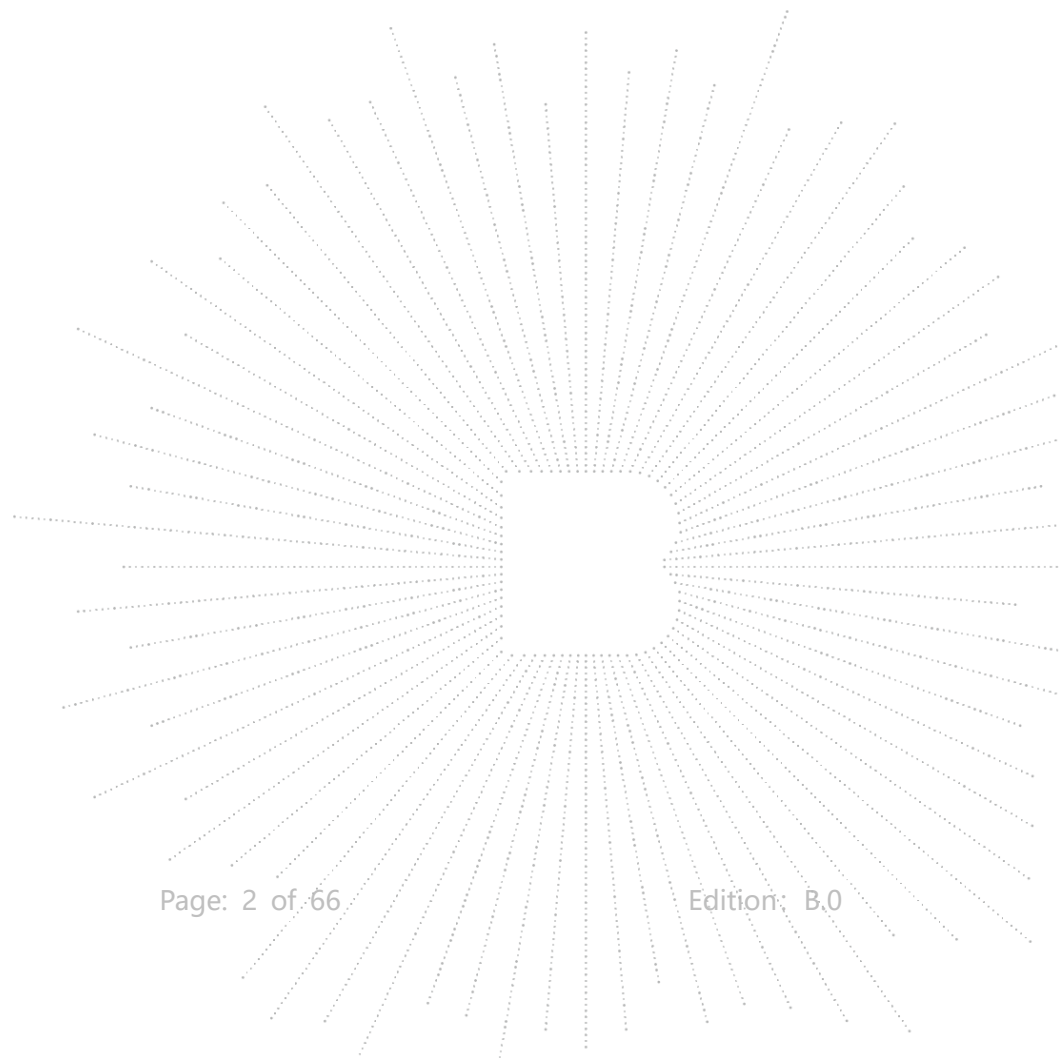
Tested Date: 2023-09-26 to 2023-11-03

Issued Date: 2023-11-03

Shenzhen BCTC Testing Co., Ltd.

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Appendix 1. Conducted output power

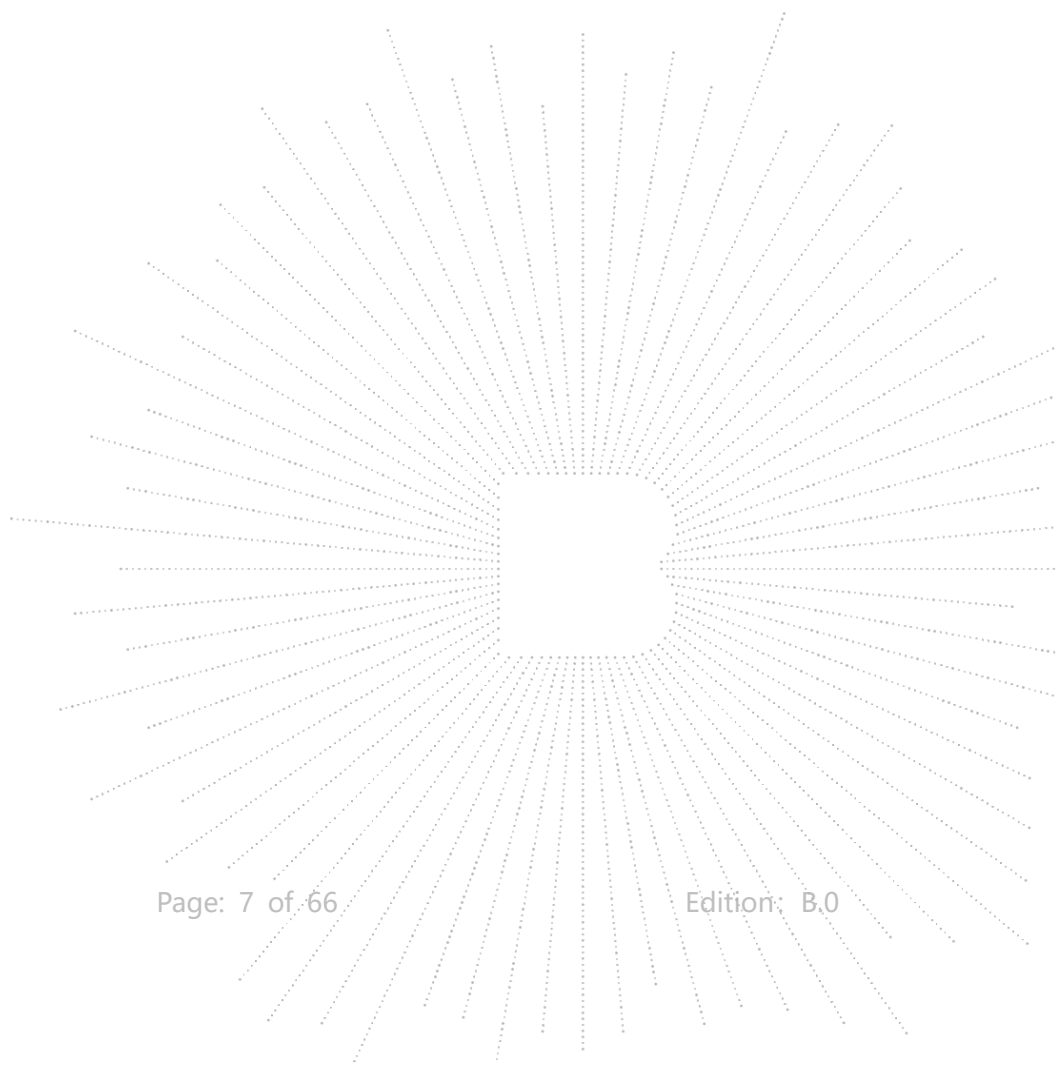
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
Band2	1.4	18607	1	#0	QPSK	21.91	2.27	24.18	37	PASS
Band2	1.4	18607	1	#Mid	QPSK	21.90	2.27	24.17	37	PASS
Band2	1.4	18607	1	#Max	QPSK	21.90	2.27	24.17	37	PASS
Band2	1.4	18607	3	#0	QPSK	22.07	2.27	24.34	37	PASS
Band2	1.4	18607	3	#Mid	QPSK	22.00	2.27	24.27	37	PASS
Band2	1.4	18607	3	#Max	QPSK	22.01	2.27	24.28	37	PASS
Band2	1.4	18607	6	#0	QPSK	21.08	2.27	23.35	37	PASS
Band2	1.4	18607	1	#0	16QAM	20.75	2.27	23.02	37	PASS
Band2	1.4	18607	1	#Mid	16QAM	20.74	2.27	23.01	37	PASS
Band2	1.4	18607	1	#Max	16QAM	20.70	2.27	22.97	37	PASS
Band2	1.4	18607	3	#0	16QAM	21.11	2.27	23.38	37	PASS
Band2	1.4	18607	3	#Mid	16QAM	21.12	2.27	23.39	37	PASS
Band2	1.4	18607	3	#Max	16QAM	21.01	2.27	23.28	37	PASS
Band2	1.4	18607	6	#0	16QAM	20.05	2.27	22.32	37	PASS
Band2	1.4	18900	1	#0	QPSK	22.31	2.27	24.58	37	PASS
Band2	1.4	18900	1	#Mid	QPSK	22.44	2.27	24.71	37	PASS
Band2	1.4	18900	1	#Max	QPSK	22.70	2.27	24.97	37	PASS
Band2	1.4	18900	3	#0	QPSK	22.41	2.27	24.68	37	PASS
Band2	1.4	18900	3	#Mid	QPSK	22.44	2.27	24.71	37	PASS
Band2	1.4	18900	3	#Max	QPSK	22.44	2.27	24.71	37	PASS
Band2	1.4	18900	6	#0	QPSK	21.53	2.27	23.80	37	PASS
Band2	1.4	18900	1	#0	16QAM	21.18	2.27	23.45	37	PASS
Band2	1.4	18900	1	#Mid	16QAM	21.18	2.27	23.45	37	PASS
Band2	1.4	18900	1	#Max	16QAM	21.08	2.27	23.35	37	PASS
Band2	1.4	18900	3	#0	16QAM	21.23	2.27	23.50	37	PASS
Band2	1.4	18900	3	#Mid	16QAM	21.18	2.27	23.45	37	PASS
Band2	1.4	18900	3	#Max	16QAM	21.18	2.27	23.45	37	PASS
Band2	1.4	18900	6	#0	16QAM	20.57	2.27	22.84	37	PASS
Band2	1.4	19193	1	#0	QPSK	22.37	2.27	24.64	37	PASS
Band2	1.4	19193	1	#Mid	QPSK	22.44	2.27	24.71	37	PASS
Band2	1.4	19193	1	#Max	QPSK	22.29	2.27	24.56	37	PASS
Band2	1.4	19193	3	#0	QPSK	22.49	2.27	24.76	37	PASS
Band2	1.4	19193	3	#Mid	QPSK	22.49	2.27	24.76	37	PASS
Band2	1.4	19193	3	#Max	QPSK	22.35	2.27	24.62	37	PASS
Band2	1.4	19193	6	#0	QPSK	21.42	2.27	23.69	37	PASS
Band2	1.4	19193	1	#0	16QAM	21.44	2.27	23.71	37	PASS
Band2	1.4	19193	1	#Mid	16QAM	21.42	2.27	23.69	37	PASS

Band2	1.4	19193	1	#Max	16QAM	21.22	2.27	23.49	37	PASS
Band2	1.4	19193	3	#0	16QAM	21.39	2.27	23.66	37	PASS
Band2	1.4	19193	3	#Mid	16QAM	21.39	2.27	23.66	37	PASS
Band2	1.4	19193	3	#Max	16QAM	21.25	2.27	23.52	37	PASS
Band2	1.4	19193	6	#0	16QAM	20.27	2.27	22.54	37	PASS
Band2	3	18615	1	#0	QPSK	21.95	2.27	24.22	37	PASS
Band2	3	18615	1	#Mid	QPSK	21.99	2.27	24.26	37	PASS
Band2	3	18615	1	#Max	QPSK	22.01	2.27	24.28	37	PASS
Band2	3	18615	8	#0	QPSK	21.11	2.27	23.38	37	PASS
Band2	3	18615	8	#Mid	QPSK	21.05	2.27	23.32	37	PASS
Band2	3	18615	8	#Max	QPSK	21.18	2.27	23.45	37	PASS
Band2	3	18615	15	#0	QPSK	21.14	2.27	23.41	37	PASS
Band2	3	18615	1	#0	16QAM	21.42	2.27	23.69	37	PASS
Band2	3	18615	1	#Mid	16QAM	21.47	2.27	23.74	37	PASS
Band2	3	18615	1	#Max	16QAM	21.51	2.27	23.78	37	PASS
Band2	3	18615	8	#0	16QAM	20.08	2.27	22.35	37	PASS
Band2	3	18615	8	#Mid	16QAM	20.04	2.27	22.31	37	PASS
Band2	3	18615	8	#Max	16QAM	20.14	2.27	22.41	37	PASS
Band2	3	18615	15	#0	16QAM	20.01	2.27	22.28	37	PASS
Band2	3	18900	1	#0	QPSK	22.34	2.27	24.61	37	PASS
Band2	3	18900	1	#Mid	QPSK	22.65	2.27	24.92	37	PASS
Band2	3	18900	1	#Max	QPSK	22.63	2.27	24.90	37	PASS
Band2	3	18900	8	#0	QPSK	21.54	2.27	23.81	37	PASS
Band2	3	18900	8	#Mid	QPSK	21.49	2.27	23.76	37	PASS
Band2	3	18900	8	#Max	QPSK	21.50	2.27	23.77	37	PASS
Band2	3	18900	15	#0	QPSK	21.46	2.27	23.73	37	PASS
Band2	3	18900	1	#0	16QAM	21.17	2.27	23.44	37	PASS
Band2	3	18900	1	#Mid	16QAM	21.40	2.27	23.67	37	PASS
Band2	3	18900	1	#Max	16QAM	21.34	2.27	23.61	37	PASS
Band2	3	18900	8	#0	16QAM	20.32	2.27	22.59	37	PASS
Band2	3	18900	8	#Mid	16QAM	20.38	2.27	22.65	37	PASS
Band2	3	18900	8	#Max	16QAM	20.38	2.27	22.65	37	PASS
Band2	3	18900	15	#0	16QAM	20.29	2.27	22.56	37	PASS
Band2	3	19185	1	#0	QPSK	22.38	2.27	24.65	37	PASS
Band2	3	19185	1	#Mid	QPSK	22.51	2.27	24.78	37	PASS
Band2	3	19185	1	#Max	QPSK	22.30	2.27	24.57	37	PASS
Band2	3	19185	8	#0	QPSK	21.49	2.27	23.76	37	PASS
Band2	3	19185	8	#Mid	QPSK	21.43	2.27	23.70	37	PASS
Band2	3	19185	8	#Max	QPSK	21.38	2.27	23.65	37	PASS
Band2	3	19185	15	#0	QPSK	21.45	2.27	23.72	37	PASS
Band2	3	19185	1	#0	16QAM	21.36	2.27	23.63	37	PASS
Band2	3	19185	1	#Mid	16QAM	21.40	2.27	23.67	37	PASS

Band2	3	19185	1	#Max	16QAM	21.10	2.27	23.37	37	PASS
Band2	3	19185	8	#0	16QAM	20.32	2.27	22.59	37	PASS
Band2	3	19185	8	#Mid	16QAM	20.36	2.27	22.63	37	PASS
Band2	3	19185	8	#Max	16QAM	20.37	2.27	22.64	37	PASS
Band2	3	19185	15	#0	16QAM	20.26	2.27	22.53	37	PASS
Band2	5	18625	1	#0	QPSK	22.16	2.27	24.43	37	PASS
Band2	5	18625	1	#Mid	QPSK	22.07	2.27	24.34	37	PASS
Band2	5	18625	1	#Max	QPSK	22.32	2.27	24.59	37	PASS
Band2	5	18625	12	#0	QPSK	21.03	2.27	23.30	37	PASS
Band2	5	18625	12	#Mid	QPSK	21.24	2.27	23.51	37	PASS
Band2	5	18625	12	#Max	QPSK	21.17	2.27	23.44	37	PASS
Band2	5	18625	25	#0	QPSK	21.23	2.27	23.50	37	PASS
Band2	5	18625	1	#0	16QAM	21.25	2.27	23.52	37	PASS
Band2	5	18625	1	#Mid	16QAM	21.45	2.27	23.72	37	PASS
Band2	5	18625	1	#Max	16QAM	21.11	2.27	23.38	37	PASS
Band2	5	18625	12	#0	16QAM	20.07	2.27	22.34	37	PASS
Band2	5	18625	12	#Mid	16QAM	20.00	2.27	22.27	37	PASS
Band2	5	18625	12	#Max	16QAM	20.01	2.27	22.28	37	PASS
Band2	5	18625	25	#0	16QAM	20.21	2.27	22.48	37	PASS
Band2	5	18900	1	#0	QPSK	22.18	2.27	24.45	37	PASS
Band2	5	18900	1	#Mid	QPSK	22.43	2.27	24.70	37	PASS
Band2	5	18900	1	#Max	QPSK	22.43	2.27	24.70	37	PASS
Band2	5	18900	12	#0	QPSK	21.39	2.27	23.66	37	PASS
Band2	5	18900	12	#Mid	QPSK	21.42	2.27	23.69	37	PASS
Band2	5	18900	12	#Max	QPSK	21.40	2.27	23.67	37	PASS
Band2	5	18900	25	#0	QPSK	21.36	2.27	23.63	37	PASS
Band2	5	18900	1	#0	16QAM	21.31	2.27	23.58	37	PASS
Band2	5	18900	1	#Mid	16QAM	21.43	2.27	23.70	37	PASS
Band2	5	18900	1	#Max	16QAM	21.46	2.27	23.73	37	PASS
Band2	5	18900	12	#0	16QAM	20.14	2.27	22.41	37	PASS
Band2	5	18900	12	#Mid	16QAM	20.13	2.27	22.40	37	PASS
Band2	5	18900	12	#Max	16QAM	20.14	2.27	22.41	37	PASS
Band2	5	18900	25	#0	16QAM	20.42	2.27	22.69	37	PASS
Band2	5	19175	1	#0	QPSK	22.40	2.27	24.67	37	PASS
Band2	5	19175	1	#Mid	QPSK	22.42	2.27	24.69	37	PASS
Band2	5	19175	1	#Max	QPSK	22.33	2.27	24.60	37	PASS
Band2	5	19175	12	#0	QPSK	21.56	2.27	23.83	37	PASS
Band2	5	19175	12	#Mid	QPSK	21.52	2.27	23.79	37	PASS
Band2	5	19175	12	#Max	QPSK	21.44	2.27	23.71	37	PASS
Band2	5	19175	25	#0	QPSK	21.46	2.27	23.73	37	PASS
Band2	5	19175	1	#0	16QAM	22.02	2.27	24.29	37	PASS
Band2	5	19175	1	#Mid	16QAM	21.62	2.27	23.89	37	PASS

Band2	5	19175	1	#Max	16QAM	21.47	2.27	23.74	37	PASS
Band2	5	19175	12	#0	16QAM	20.33	2.27	22.60	37	PASS
Band2	5	19175	12	#Mid	16QAM	20.30	2.27	22.57	37	PASS
Band2	5	19175	12	#Max	16QAM	20.47	2.27	22.74	37	PASS
Band2	5	19175	25	#0	16QAM	20.26	2.27	22.53	37	PASS
Band2	10	18650	1	#0	QPSK	22.07	2.27	24.34	37	PASS
Band2	10	18650	1	#Mid	QPSK	22.36	2.27	24.63	37	PASS
Band2	10	18650	1	#Max	QPSK	22.24	2.27	24.51	37	PASS
Band2	10	18650	25	#0	QPSK	21.19	2.27	23.46	37	PASS
Band2	10	18650	25	#Mid	QPSK	21.42	2.27	23.69	37	PASS
Band2	10	18650	25	#Max	QPSK	21.43	2.27	23.70	37	PASS
Band2	10	18650	50	#0	QPSK	21.23	2.27	23.50	37	PASS
Band2	10	18900	1	#0	QPSK	22.34	2.27	24.61	37	PASS
Band2	10	18900	1	#Mid	QPSK	22.45	2.27	24.72	37	PASS
Band2	10	18900	1	#Max	QPSK	22.31	2.27	24.58	37	PASS
Band2	10	18900	25	#0	QPSK	21.46	2.27	23.73	37	PASS
Band2	10	18900	25	#Mid	QPSK	21.54	2.27	23.81	37	PASS
Band2	10	18900	25	#Max	QPSK	21.45	2.27	23.72	37	PASS
Band2	10	18900	50	#0	QPSK	21.45	2.27	23.72	37	PASS
Band2	10	19150	1	#0	QPSK	22.23	2.27	24.50	37	PASS
Band2	10	19150	1	#Mid	QPSK	23.00	2.27	25.27	37	PASS
Band2	10	19150	1	#Max	QPSK	22.47	2.27	24.74	37	PASS
Band2	10	19150	25	#0	QPSK	21.45	2.27	23.72	37	PASS
Band2	10	19150	25	#Mid	QPSK	21.64	2.27	23.91	37	PASS
Band2	10	19150	25	#Max	QPSK	21.55	2.27	23.82	37	PASS
Band2	10	19150	50	#0	QPSK	21.42	2.27	23.69	37	PASS
Band2	15	18675	1	#0	QPSK	22.10	2.27	24.37	37	PASS
Band2	15	18675	1	#Mid	QPSK	22.64	2.27	24.91	37	PASS
Band2	15	18675	1	#Max	QPSK	22.24	2.27	24.51	37	PASS
Band2	15	18675	36	#0	QPSK	21.32	2.27	23.59	37	PASS
Band2	15	18675	36	#Mid	QPSK	21.40	2.27	23.67	37	PASS
Band2	15	18675	36	#Max	QPSK	21.32	2.27	23.59	37	PASS
Band2	15	18900	1	#0	QPSK	22.46	2.27	24.73	37	PASS
Band2	15	18900	1	#Mid	QPSK	22.74	2.27	25.01	37	PASS
Band2	15	18900	1	#Max	QPSK	22.39	2.27	24.66	37	PASS
Band2	15	18900	36	#0	QPSK	21.40	2.27	23.67	37	PASS
Band2	15	18900	36	#Mid	QPSK	21.58	2.27	23.85	37	PASS
Band2	15	18900	36	#Max	QPSK	21.50	2.27	23.77	37	PASS
Band2	15	19125	1	#0	QPSK	22.25	2.27	24.52	37	PASS
Band2	15	19125	1	#Mid	QPSK	22.57	2.27	24.84	37	PASS
Band2	15	19125	1	#Max	QPSK	22.43	2.27	24.70	37	PASS
Band2	15	19125	36	#0	QPSK	21.39	2.27	23.66	37	PASS

Band2	15	19125	36	#Mid	QPSK	21.43	2.27	23.70	37	PASS
Band2	15	19125	36	#Max	QPSK	21.53	2.27	23.80	37	PASS
Band2	20	18700	1	#0	QPSK	22.14	2.27	24.41	37	PASS
Band2	20	18700	1	#Mid	QPSK	22.64	2.27	24.91	37	PASS
Band2	20	18700	1	#Max	QPSK	22.18	2.27	24.45	37	PASS
Band2	20	18700	50	#0	QPSK	21.31	2.27	23.58	37	PASS
Band2	20	18700	50	#Mid	QPSK	21.35	2.27	23.62	37	PASS
Band2	20	18700	50	#Max	QPSK	21.28	2.27	23.55	37	PASS
Band2	20	18700	100	#0	QPSK	0.00	2.27	2.27	37	PASS
Band2	20	18900	1	#0	QPSK	22.00	2.27	24.27	37	PASS
Band2	20	18900	1	#Mid	QPSK	22.63	2.27	24.90	37	PASS
Band2	20	18900	1	#Max	QPSK	22.36	2.27	24.63	37	PASS
Band2	20	18900	50	#0	QPSK	21.38	2.27	23.65	37	PASS
Band2	20	18900	50	#Mid	QPSK	21.51	2.27	23.78	37	PASS
Band2	20	18900	50	#Max	QPSK	21.38	2.27	23.65	37	PASS
Band2	20	19100	1	#0	QPSK	22.59	2.27	24.86	37	PASS
Band2	20	19100	1	#Mid	QPSK	22.65	2.27	24.92	37	PASS
Band2	20	19100	1	#Max	QPSK	22.71	2.27	24.98	37	PASS
Band2	20	19100	50	#0	QPSK	21.36	2.27	23.63	37	PASS
Band2	20	19100	50	#Mid	QPSK	21.41	2.27	23.68	37	PASS
Band2	20	19100	50	#Max	QPSK	21.49	2.27	23.76	37	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
Band 2	1.4	18607	6	#0	QPSK	LV	NT	-2.33	-0.001	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	NV	NT	-3.02	-0.002	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	HV	NT	-2.85	-0.002	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	16QAM	LV	NT	-4.56	-0.002	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	16QAM	NV	NT	-3.55	-0.002	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	16QAM	HV	NT	-3.50	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	LV	NT	-2.89	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	NV	NT	-3.39	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	HV	NT	-3.36	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	16QAM	LV	NT	-2.70	-0.001	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	16QAM	NV	NT	-3.03	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	16QAM	HV	NT	-2.07	-0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	LV	NT	-0.11	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	NV	NT	0.10	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	HV	NT	0.14	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	16QAM	LV	NT	0.40	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	16QAM	NV	NT	1.40	0.001	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	16QAM	HV	NT	1.67	0.001	-2.5	2.5	PASS

2												
Band 2	3	18615	15	#0	QPSK	LV	NT	-3.98	-0.00 2	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	NV	NT	-3.48	-0.00 2	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	HV	NT	0.00	0.000	-2.5	2.5	PASS
Band 2	3	18615	15	#0	16QAM	LV	NT	0.00	0.000	-2.5	2.5	PASS
Band 2	3	18615	15	#0	16QAM	NV	NT	0.00	0.000	-2.5	2.5	PASS
Band 2	3	18615	15	#0	16QAM	HV	NT	0.00	0.000	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	LV	NT	-5.64	-0.00 3	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	NV	NT	-4.11	-0.00 2	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	HV	NT	-4.56	-0.00 2	-2.5	2.5	PASS
Band 2	3	18900	15	#0	16QAM	LV	NT	-4.25	-0.00 2	-2.5	2.5	PASS
Band 2	3	18900	15	#0	16QAM	NV	NT	-3.53	-0.00 2	-2.5	2.5	PASS
Band 2	3	18900	15	#0	16QAM	HV	NT	-3.28	-0.00 2	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	LV	NT	0.07	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	NV	NT	0.67	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	HV	NT	-0.67	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	16QAM	LV	NT	0.04	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	16QAM	NV	NT	-0.33	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	16QAM	HV	NT	-0.84	0.000	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	LV	NT	-3.33	-0.00 2	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	NV	NT	-2.70	-0.00 1	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	HV	NT	-2.40	-0.00 1	-2.5	2.5	PASS

Band 2	5	18625	25	#0	16QAM	LV	NT	-2.36	-0.00 1	-2.5	2.5	PASS
Band 2	5	18625	25	#0	16QAM	NV	NT	-2.76	-0.00 1	-2.5	2.5	PASS
Band 2	5	18625	25	#0	16QAM	HV	NT	-2.49	-0.00 1	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	LV	NT	-4.26	-0.00 2	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	NV	NT	-5.19	-0.00 3	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	HV	NT	-5.35	-0.00 3	-2.5	2.5	PASS
Band 2	5	18900	25	#0	16QAM	LV	NT	-4.29	-0.00 2	-2.5	2.5	PASS
Band 2	5	18900	25	#0	16QAM	NV	NT	-4.91	-0.00 3	-2.5	2.5	PASS
Band 2	5	18900	25	#0	16QAM	HV	NT	-3.69	-0.00 2	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	LV	NT	0.01	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	NV	NT	-2.27	-0.00 1	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	HV	NT	-2.75	-0.00 1	-2.5	2.5	PASS
Band 2	5	19175	25	#0	16QAM	LV	NT	-0.33	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	16QAM	NV	NT	-0.04	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	16QAM	HV	NT	-1.12	-0.00 1	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	LV	NT	-1.03	-0.00 1	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	NV	NT	-3.15	-0.00 2	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	HV	NT	0.00	0.000	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	LV	NT	-4.29	-0.00 2	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	NV	NT	-5.48	-0.00 3	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	HV	NT	-5.12	-0.00 3	-2.5	2.5	PASS
Band	10	19150	50	#0	QPSK	LV	NT	1.29	0.001	-2.5	2.5	PASS

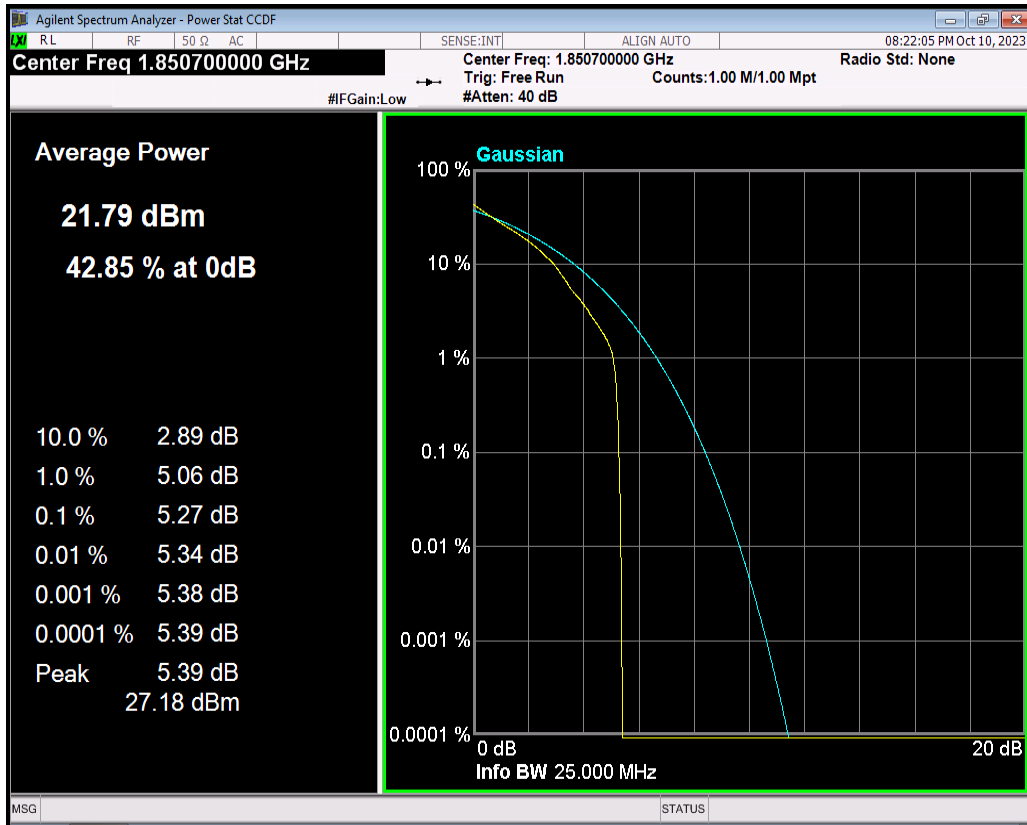
2												
Band 2	10	19150	50	#0	QPSK	NV	NT	0.41	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	HV	NT	0.00	0.000	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	LV	NT	-3.92	-0.002	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	NV	NT	-3.82	-0.002	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	HV	NT	-3.79	-0.002	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	LV	NT	-4.15	-0.002	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	NV	NT	-3.53	-0.002	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	HV	NT	-4.75	-0.003	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	LV	NT	-3.65	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	NV	NT	-2.92	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	HV	NT	-2.88	-0.002	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	LV	NT	1.06	0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	NV	NT	0.14	0.000	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	HV	NT	0.36	0.000	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	LV	NT	-4.49	-0.002	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	NV	NT	-3.86	-0.002	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	HV	NT	0.00	0.000	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	LV	NT	-2.45	-0.001	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	NV	NT	-3.76	-0.002	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	HV	NT	-3.33	-0.002	-2.5	2.5	PASS

Appendix 3. Peak-to-Average Ratio

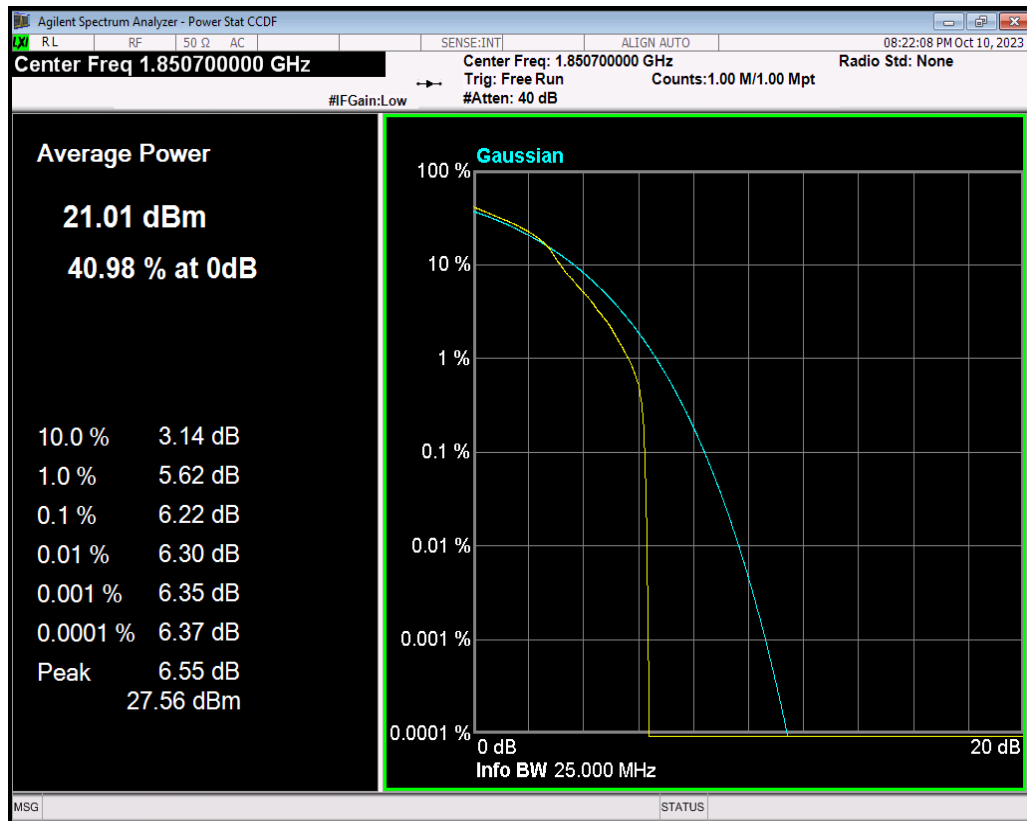
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band2	1.4	18607	1	#0	QPSK	5.27	13	PASS
Band2	1.4	18607	1	#0	16QAM	6.22	13	PASS
Band2	1.4	18900	1	#0	QPSK	5.26	13	PASS
Band2	1.4	18900	1	#0	16QAM	6.21	13	PASS
Band2	1.4	19193	1	#0	QPSK	4.51	13	PASS
Band2	1.4	19193	1	#0	16QAM	5.38	13	PASS
Band2	3	18615	1	#0	QPSK	5.31	13	PASS
Band2	3	18615	1	#0	16QAM	6.14	13	PASS
Band2	3	18900	1	#0	QPSK	5.31	13	PASS
Band2	3	18900	1	#0	16QAM	6.29	13	PASS
Band2	3	19185	1	#0	QPSK	5.00	13	PASS
Band2	3	19185	1	#0	16QAM	5.90	13	PASS
Band2	5	18625	1	#0	QPSK	5.24	13	PASS
Band2	5	18625	1	#0	16QAM	6.21	13	PASS
Band2	5	18900	1	#0	QPSK	5.29	13	PASS
Band2	5	18900	1	#0	16QAM	6.15	13	PASS
Band2	5	19175	1	#0	QPSK	5.30	13	PASS
Band2	5	19175	1	#0	16QAM	6.12	13	PASS
Band2	10	18650	1	#0	QPSK	5.19	13	PASS
Band2	10	18900	1	#0	QPSK	5.27	13	PASS
Band2	10	19150	1	#0	QPSK	5.18	13	PASS
Band2	15	18675	1	#0	QPSK	5.13	13	PASS
Band2	15	18900	1	#0	QPSK	5.23	13	PASS
Band2	15	19125	1	#0	QPSK	5.00	13	PASS
Band2	20	18700	1	#0	QPSK	5.11	13	PASS
Band2	20	18900	1	#0	QPSK	5.12	13	PASS
Band2	20	19100	1	#0	QPSK	5.08	13	PASS



Band2 QPSK BW=1.4MHz Channel=18607 RB Size=1 Position=#0

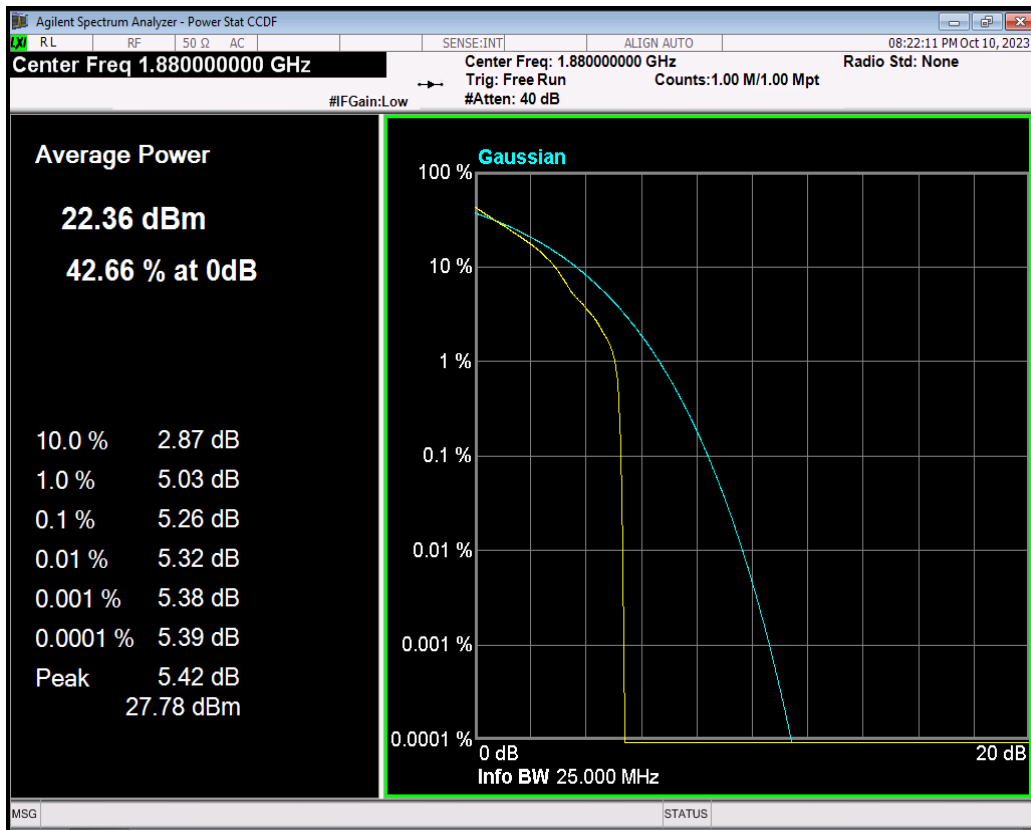


Band2 16QAM BW=1.4MHz Channel=18607 RB Size=1 Position=#0

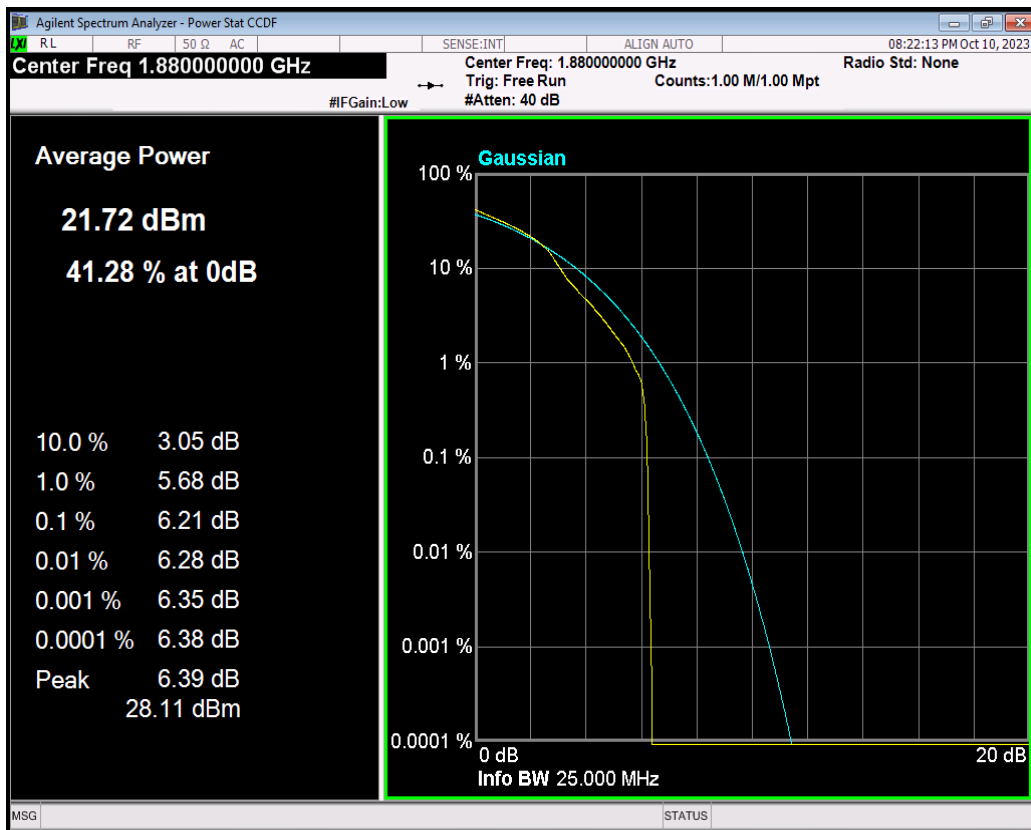




Band2 QPSK BW=1.4MHz Channel=18900 RB Size=1 Position=#0

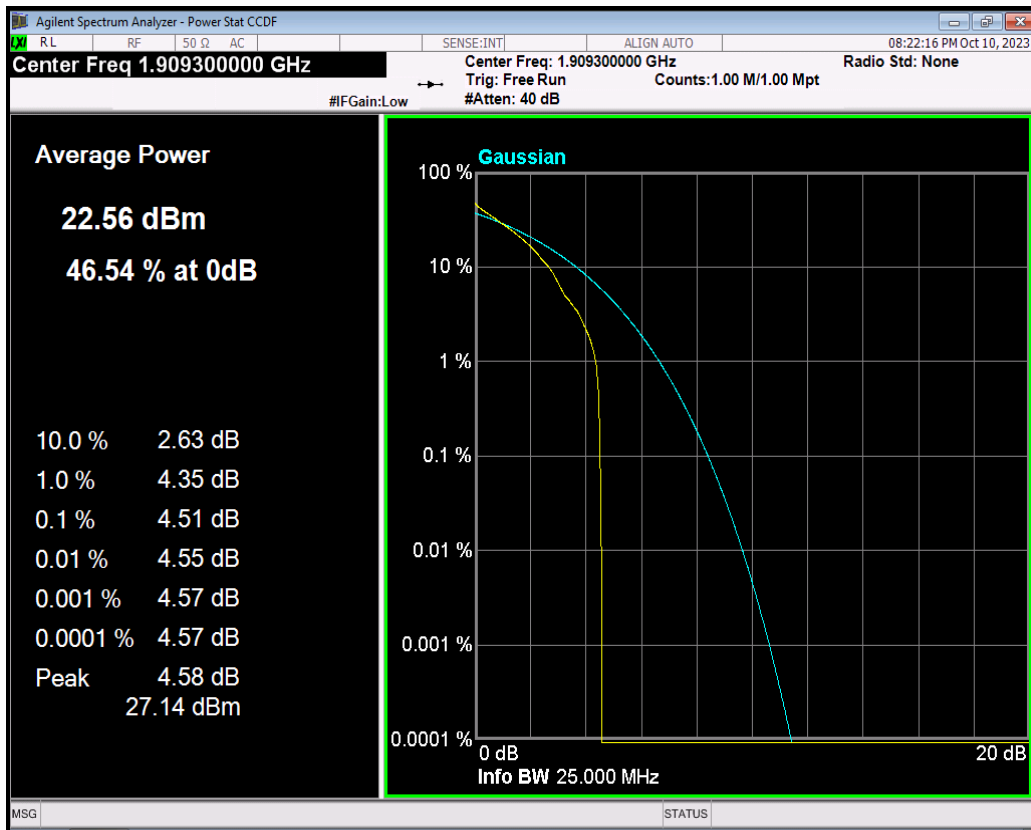


Band2 16QAM BW=1.4MHz Channel=18900 RB Size=1 Position=#0

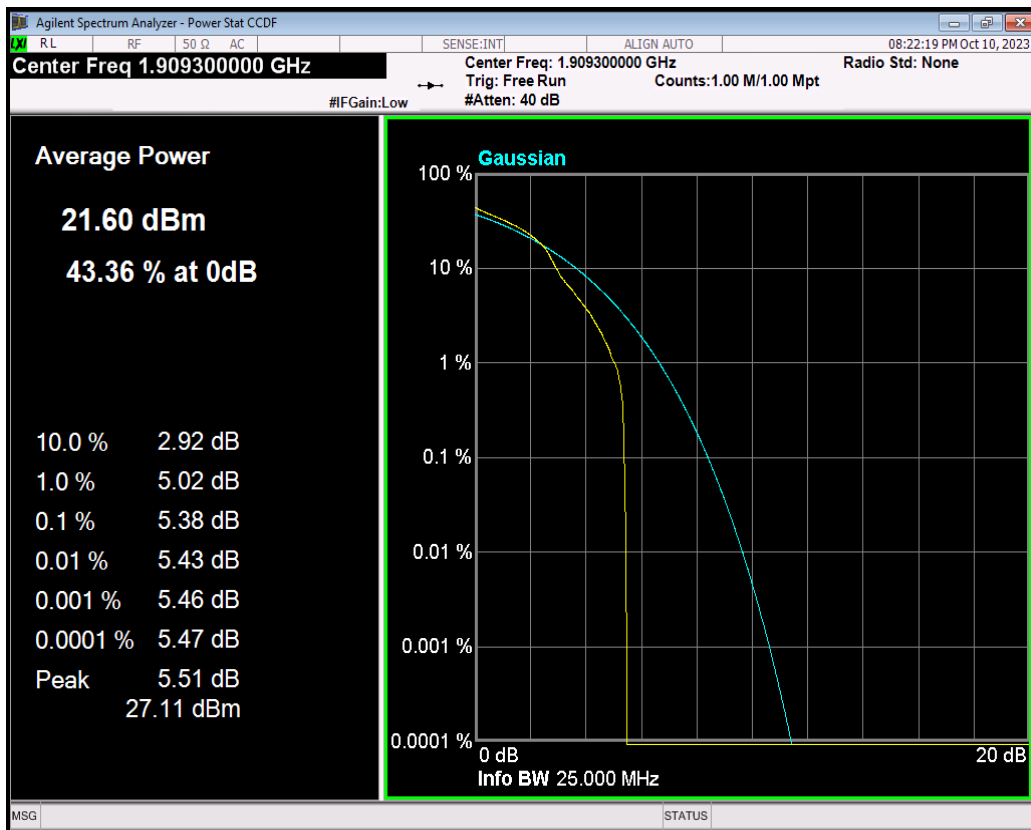




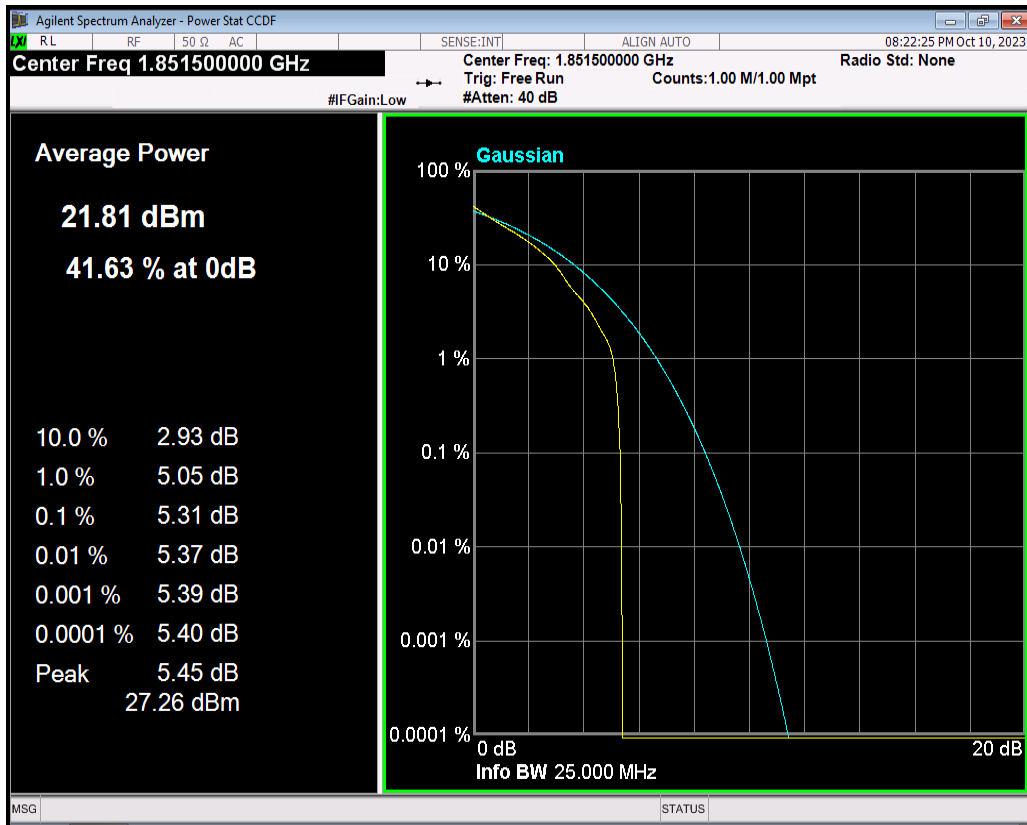
Band2 QPSK BW=1.4MHz Channel=19193 RB Size=1 Position=#0



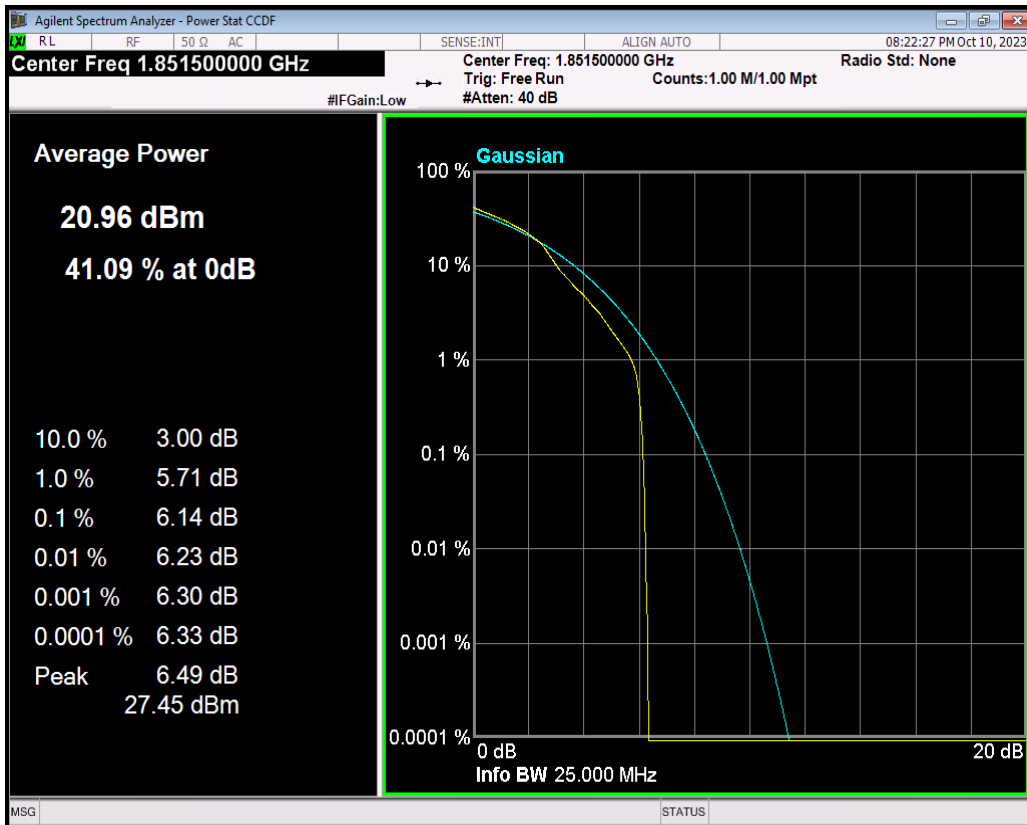
Band2 16QAM BW=1.4MHz Channel=19193 RB Size=1 Position=#0



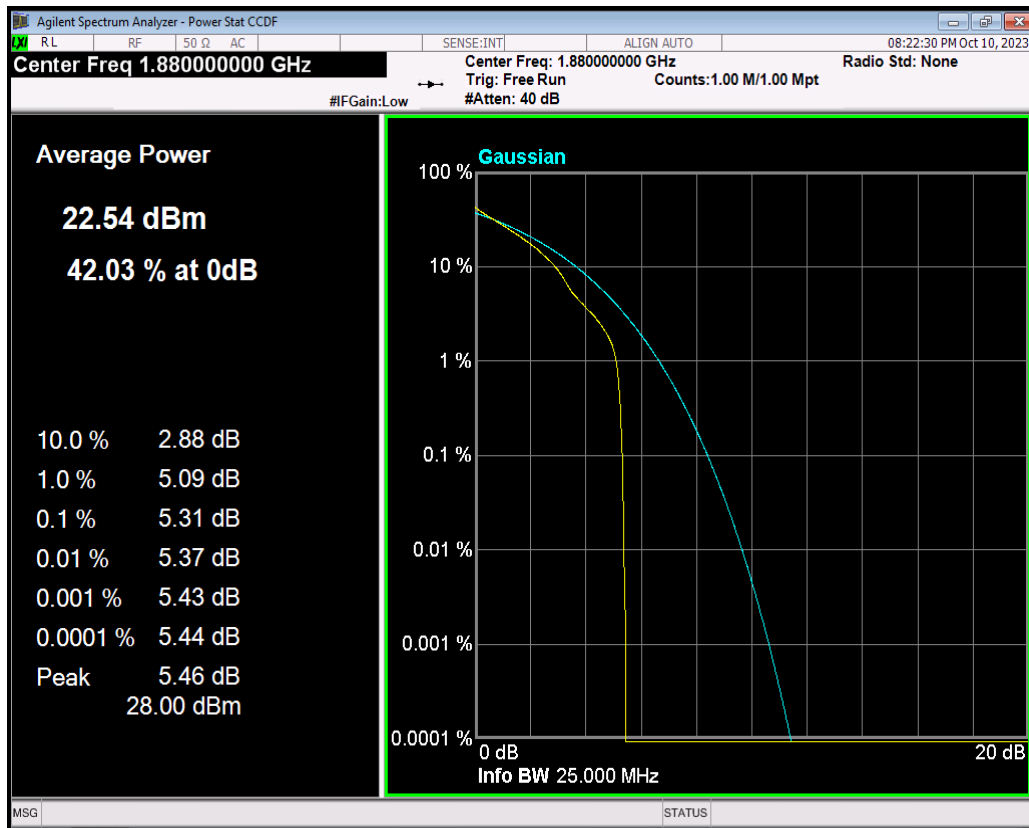
Band2 QPSK BW=3MHz Channel=18615 RB Size=1 Position=#0



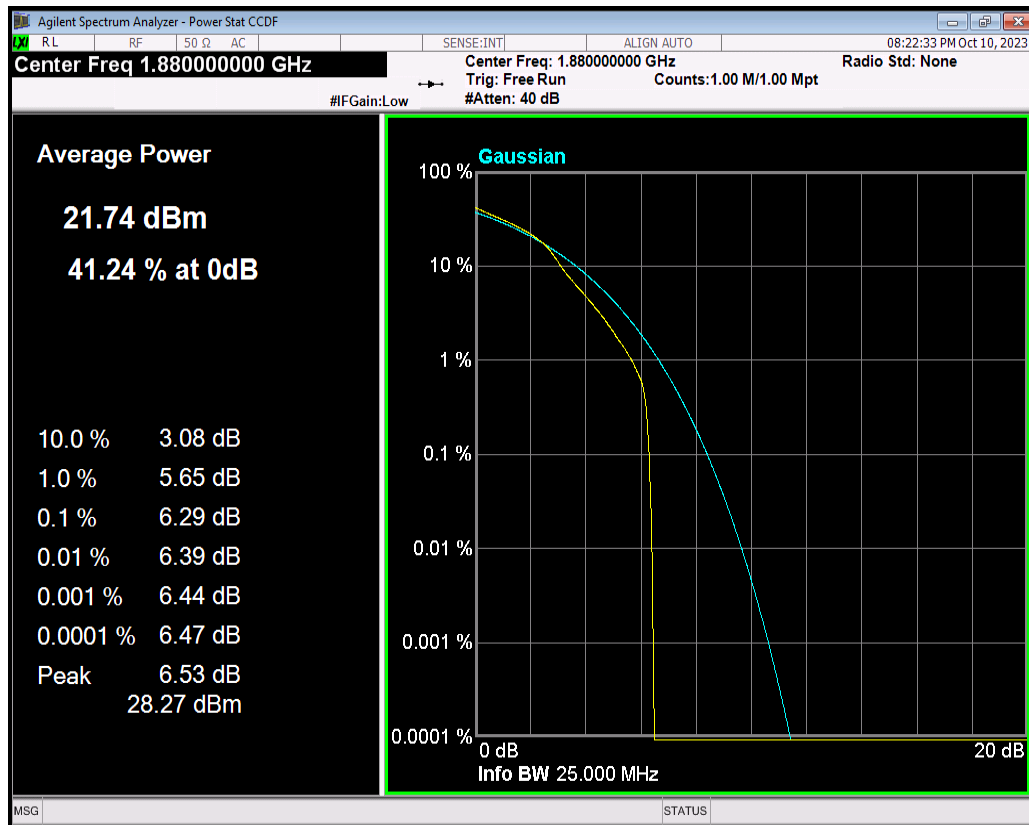
Band2 16QAM BW=3MHz Channel=18615 RB Size=1 Position=#0



Band2 QPSK BW=3MHz Channel=18900 RB Size=1 Position=#0

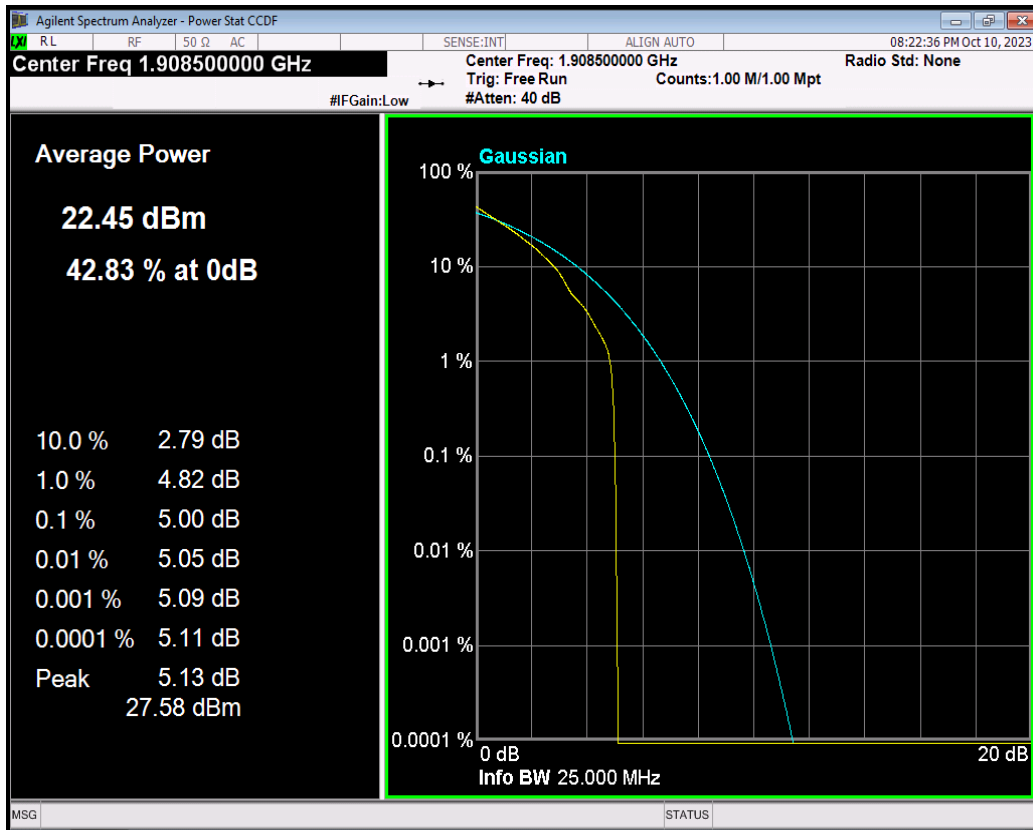


Band2 16QAM BW=3MHz Channel=18900 RB Size=1 Position=#0

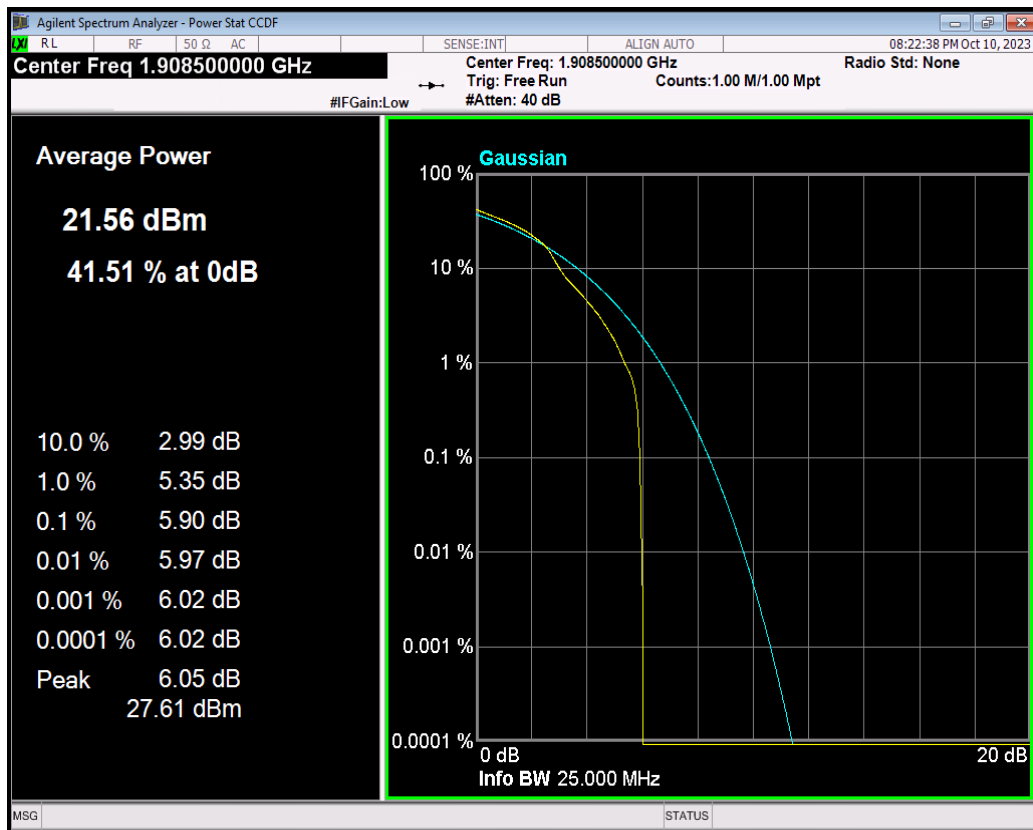




Band2 QPSK BW=3MHz Channel=19185 RB Size=1 Position=#0

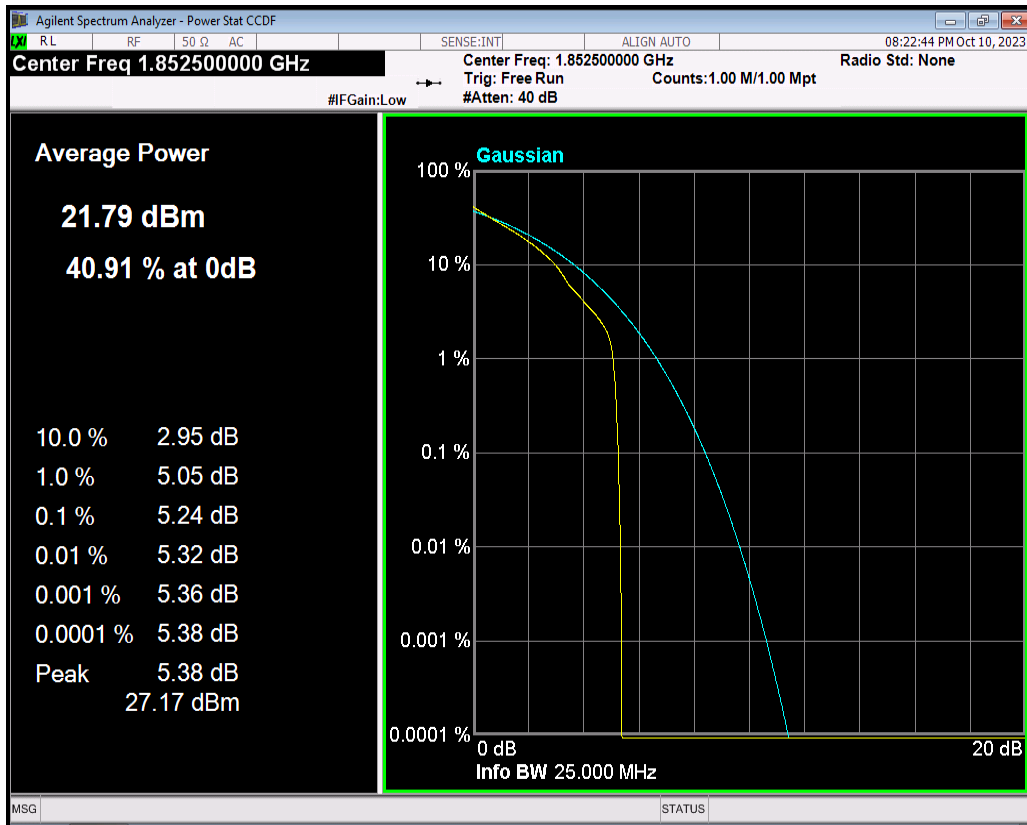


Band2 16QAM BW=3MHz Channel=19185 RB Size=1 Position=#0

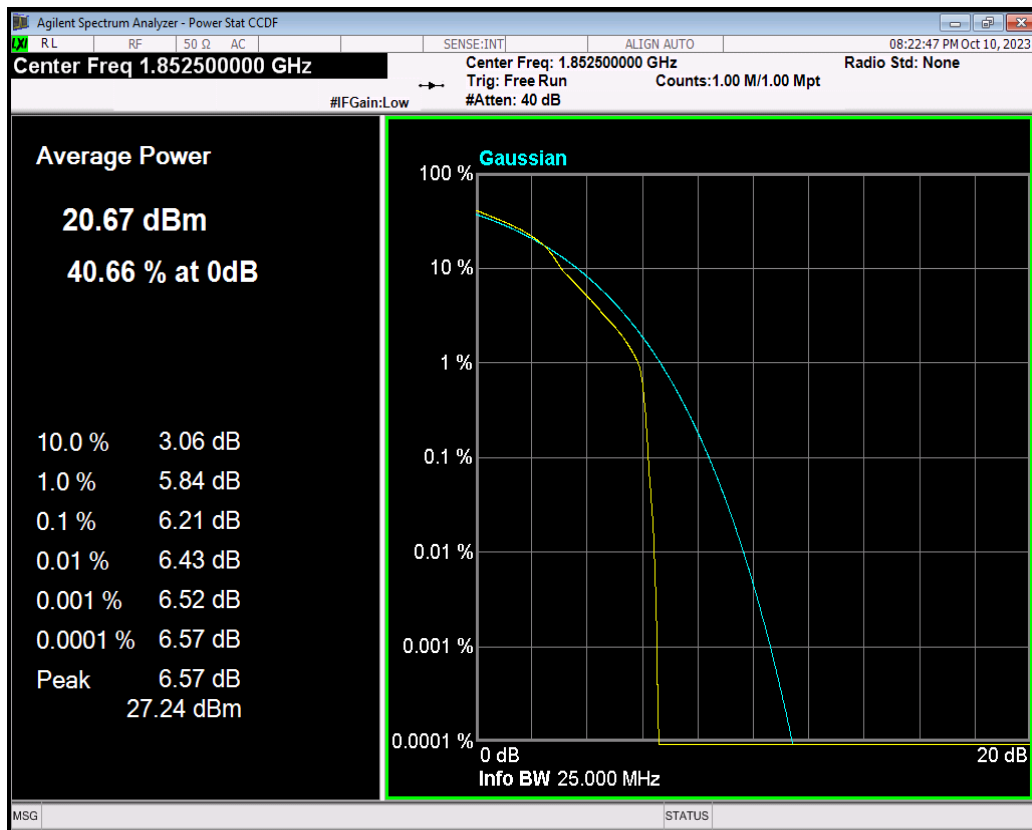




Band2 QPSK BW=5MHz Channel=18625 RB Size=1 Position=#0

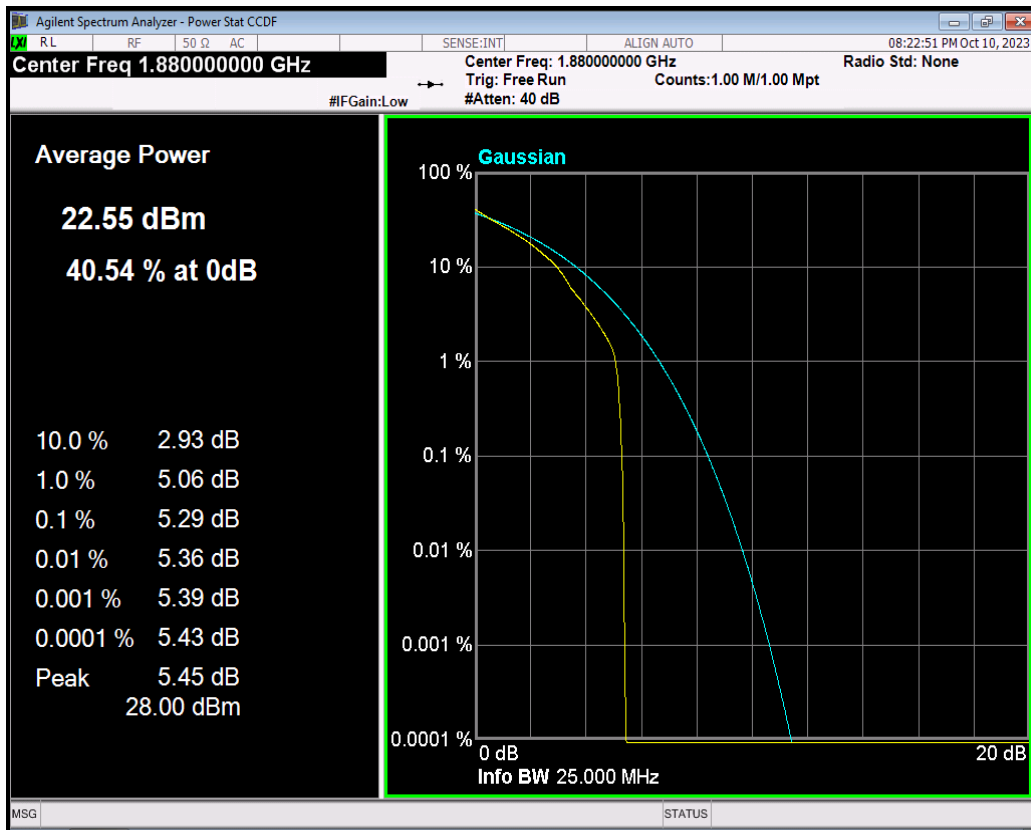


Band2 16QAM BW=5MHz Channel=18625 RB Size=1 Position=#0

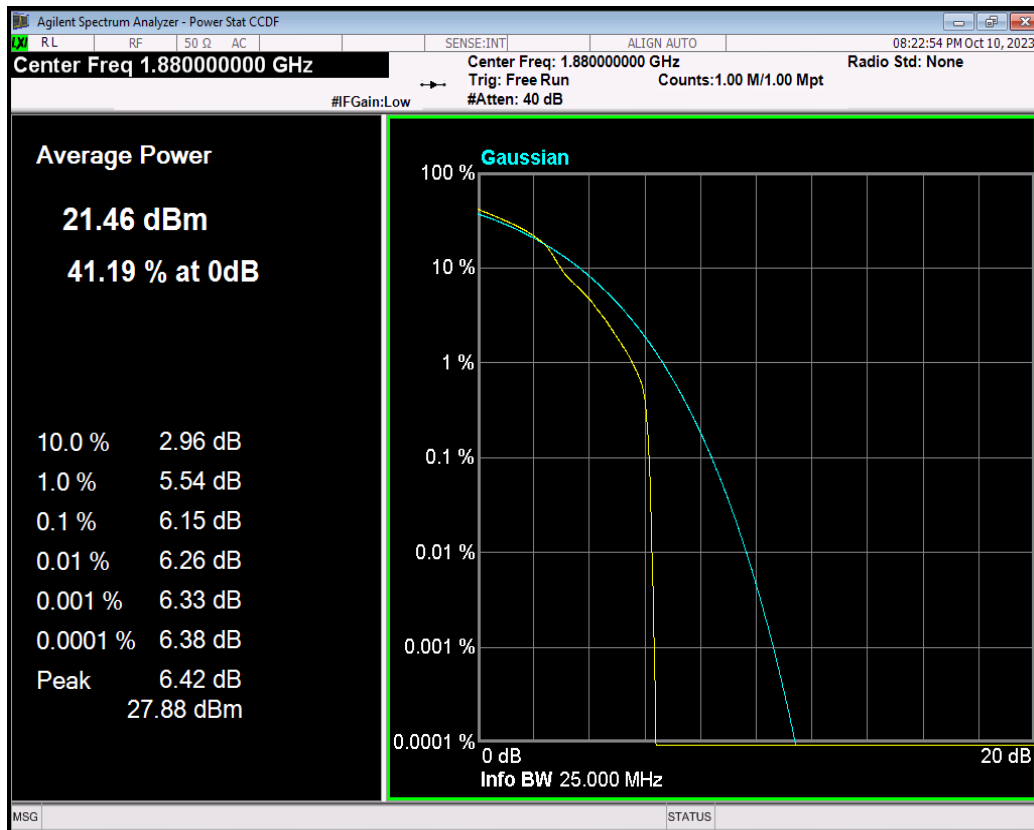




Band2 QPSK BW=5MHz Channel=18900 RB Size=1 Position=#0

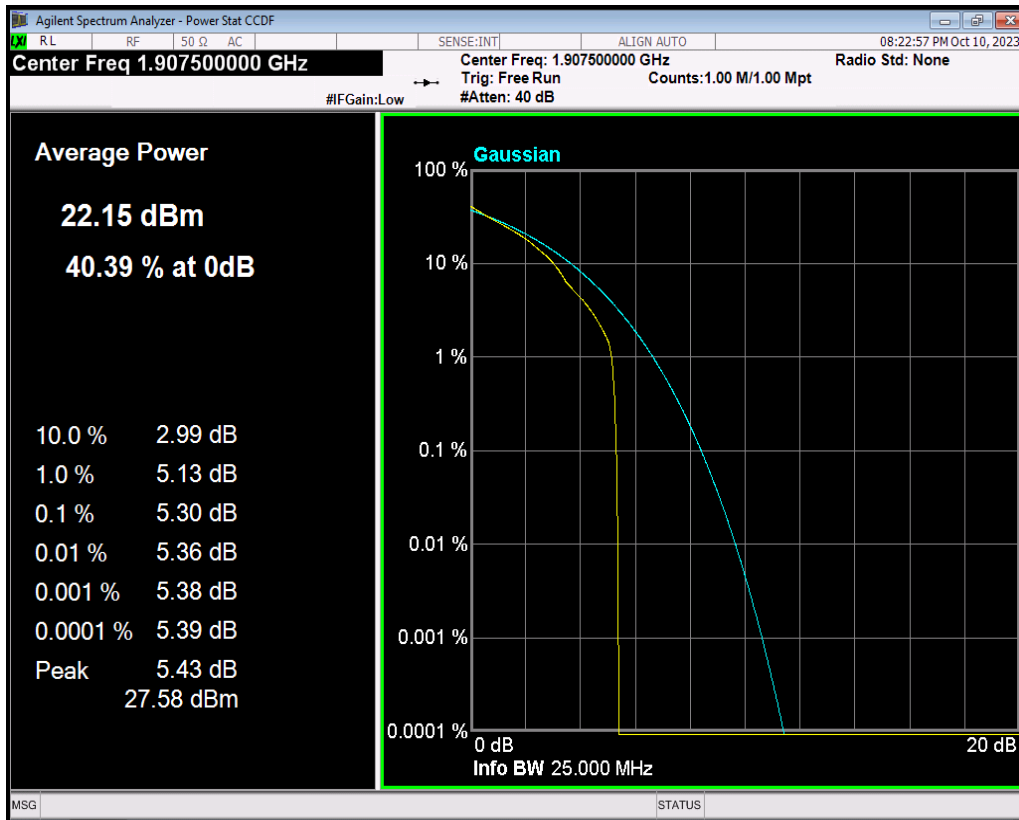


Band2 16QAM BW=5MHz Channel=18900 RB Size=1 Position=#0

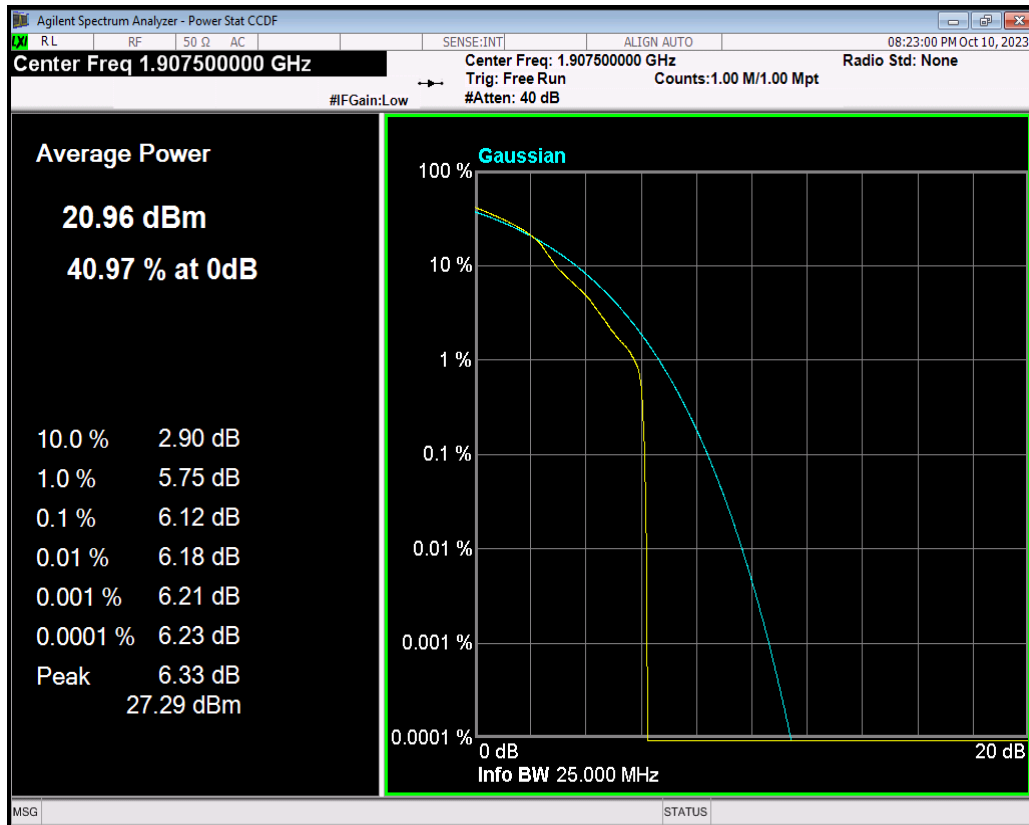




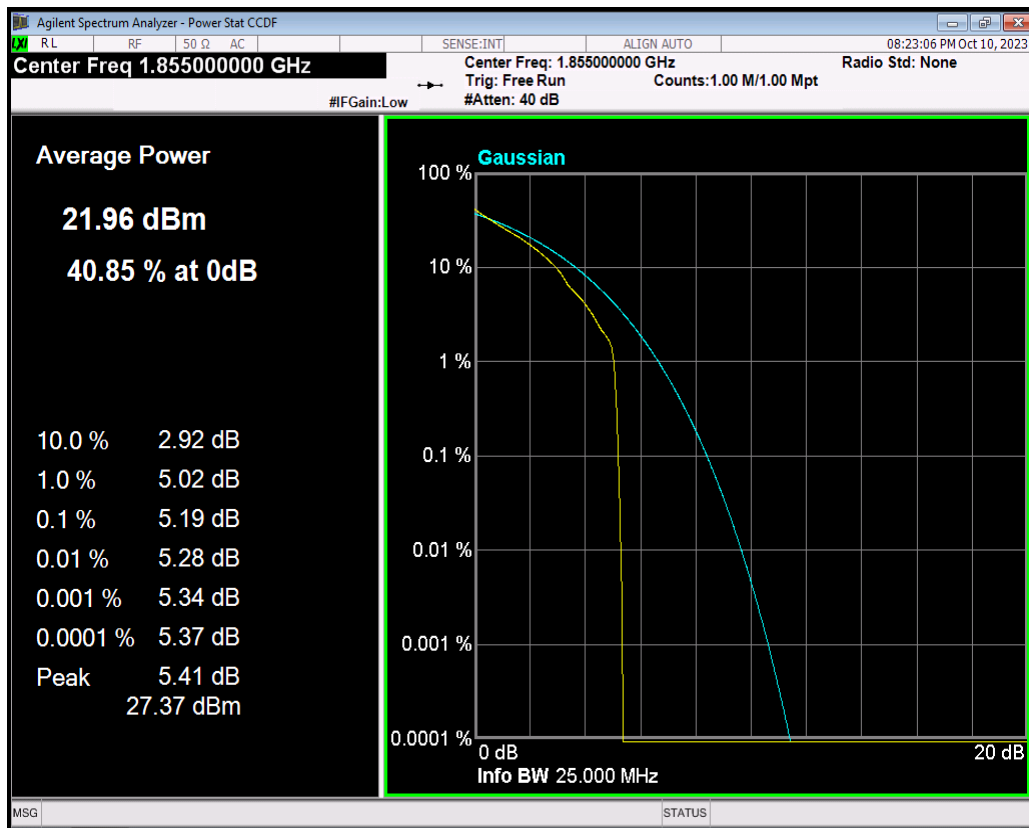
Band2 QPSK BW=5MHz Channel=19175 RB Size=1 Position=#0



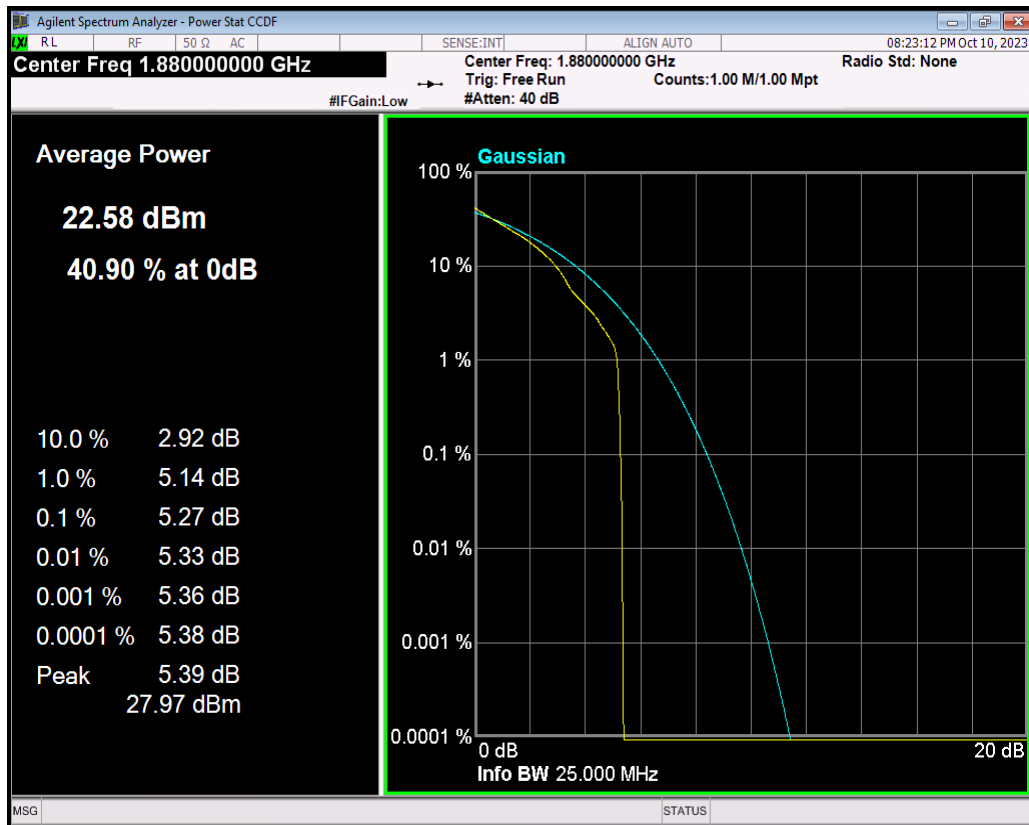
Band2 16QAM BW=5MHz Channel=19175 RB Size=1 Position=#0



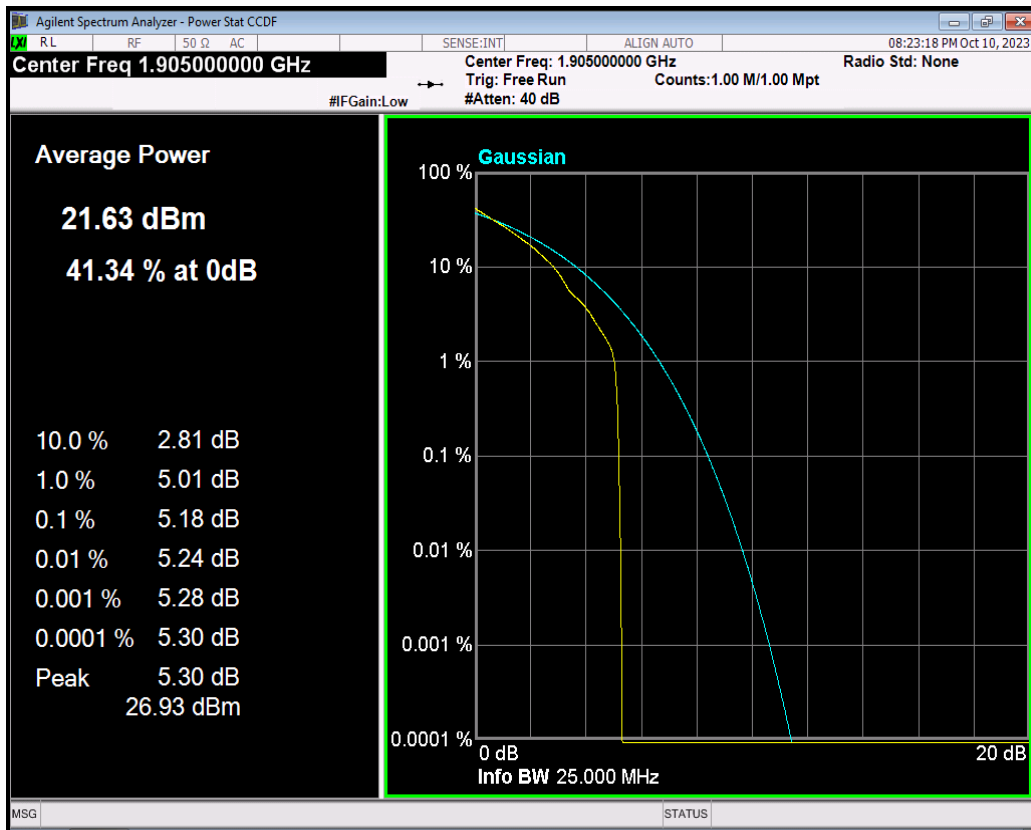
Band2 QPSK BW=10MHz Channel=18650 RB Size=1 Position=#0



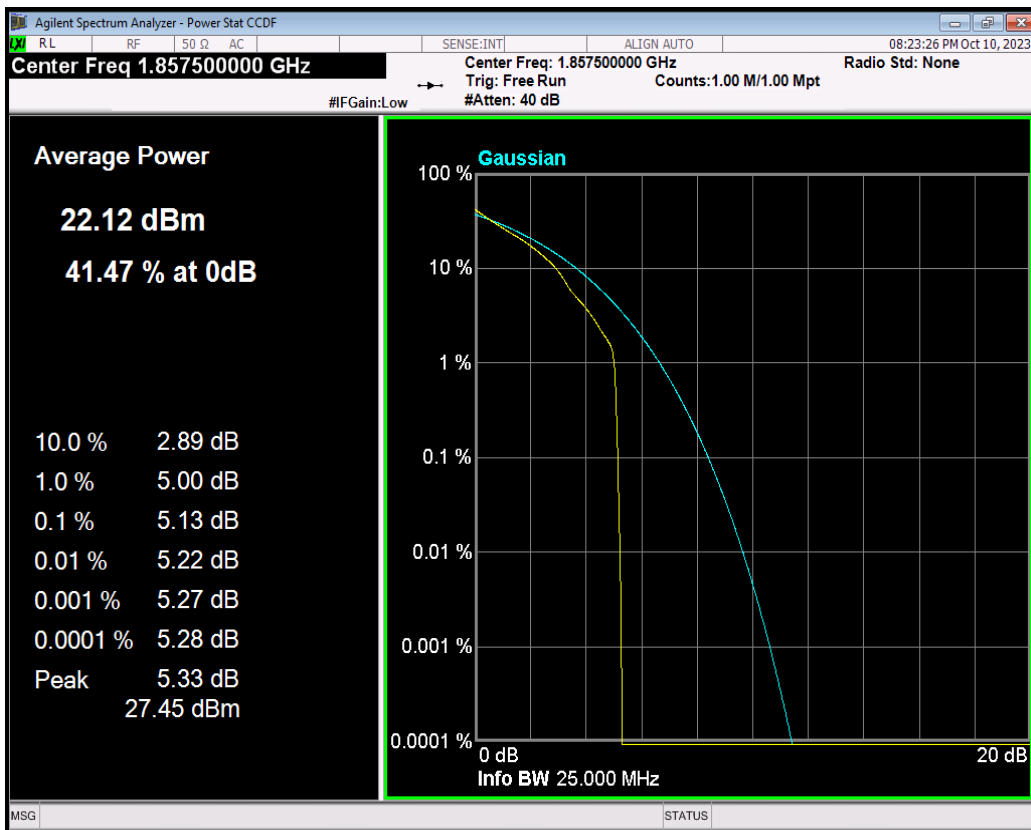
Band2 QPSK BW=10MHz Channel=18900 RB Size=1 Position=#0



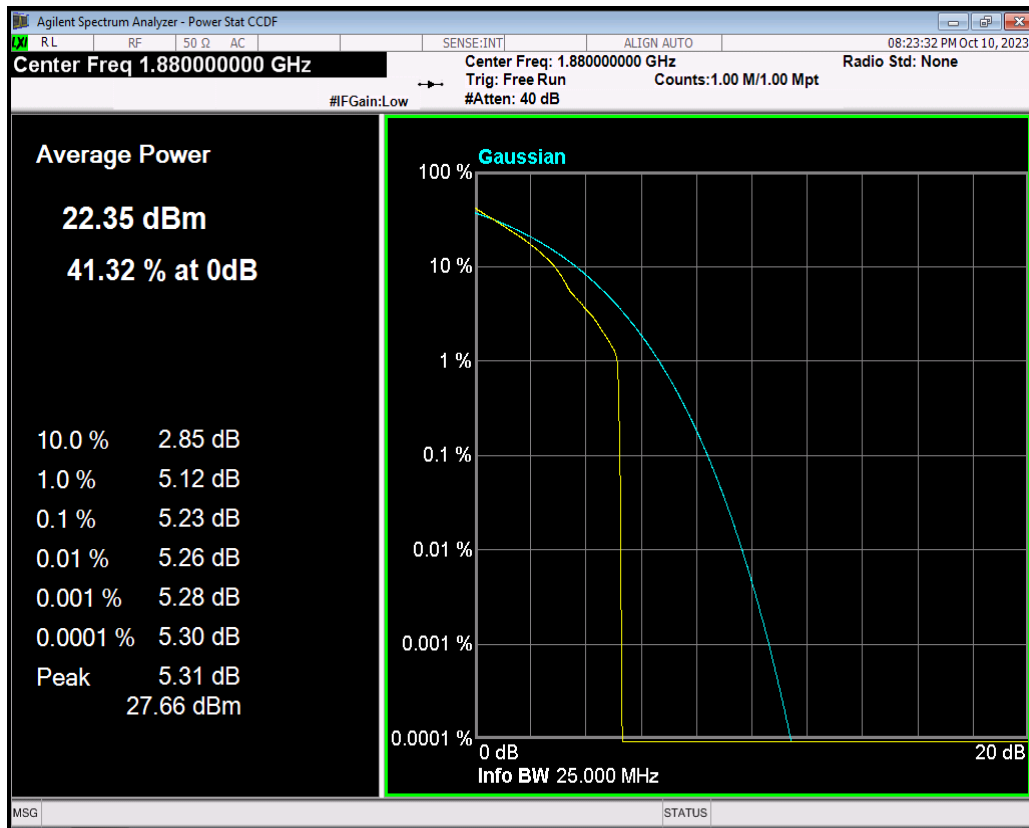
Band2 QPSK BW=10MHz Channel=19150 RB Size=1 Position=#0



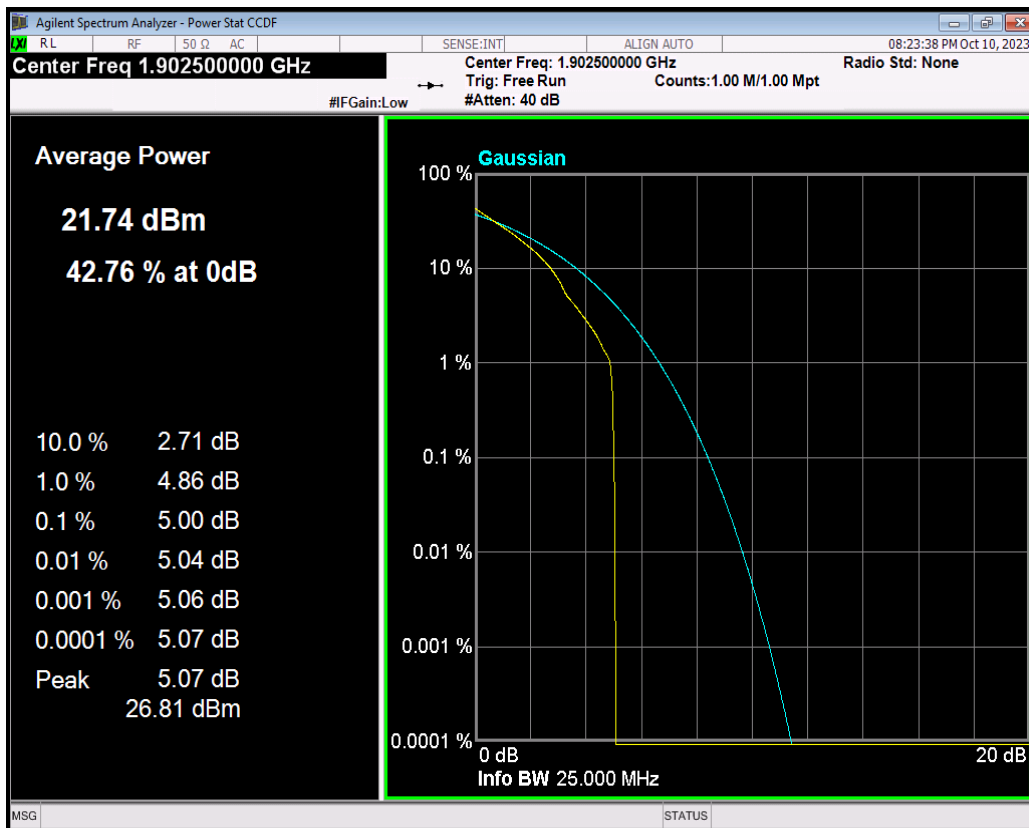
Band2 QPSK BW=15MHz Channel=18675 RB Size=1 Position=#0



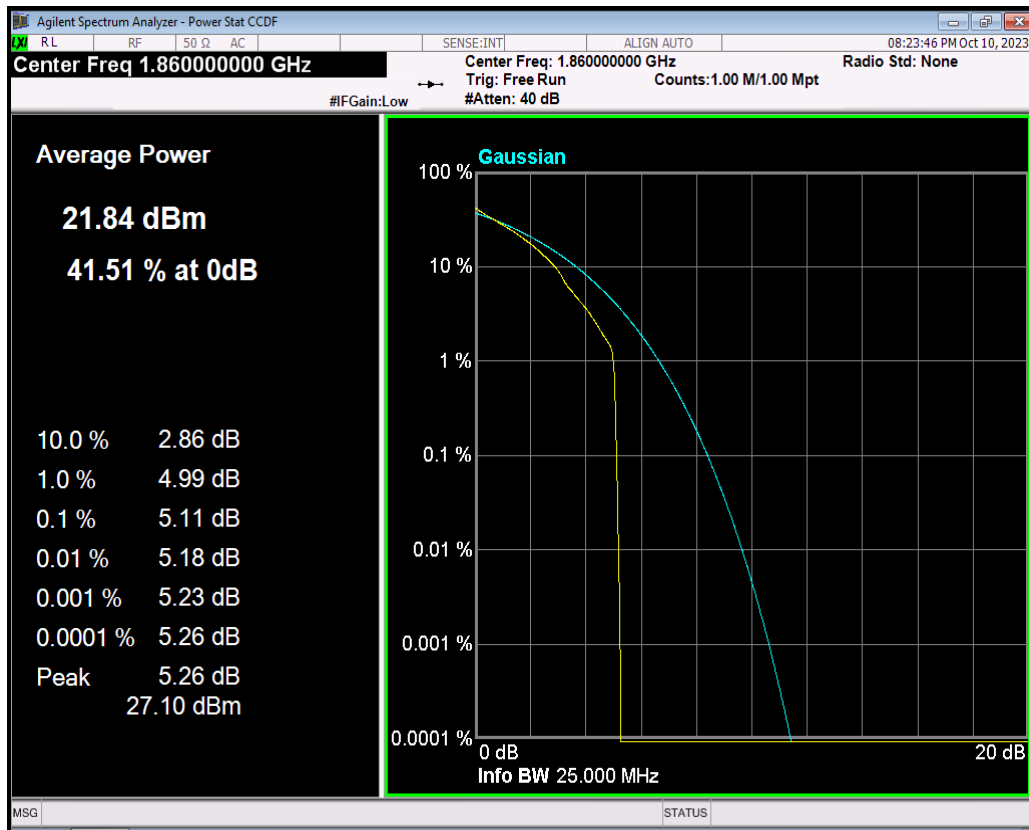
Band2 QPSK BW=15MHz Channel=18900 RB Size=1 Position=#0



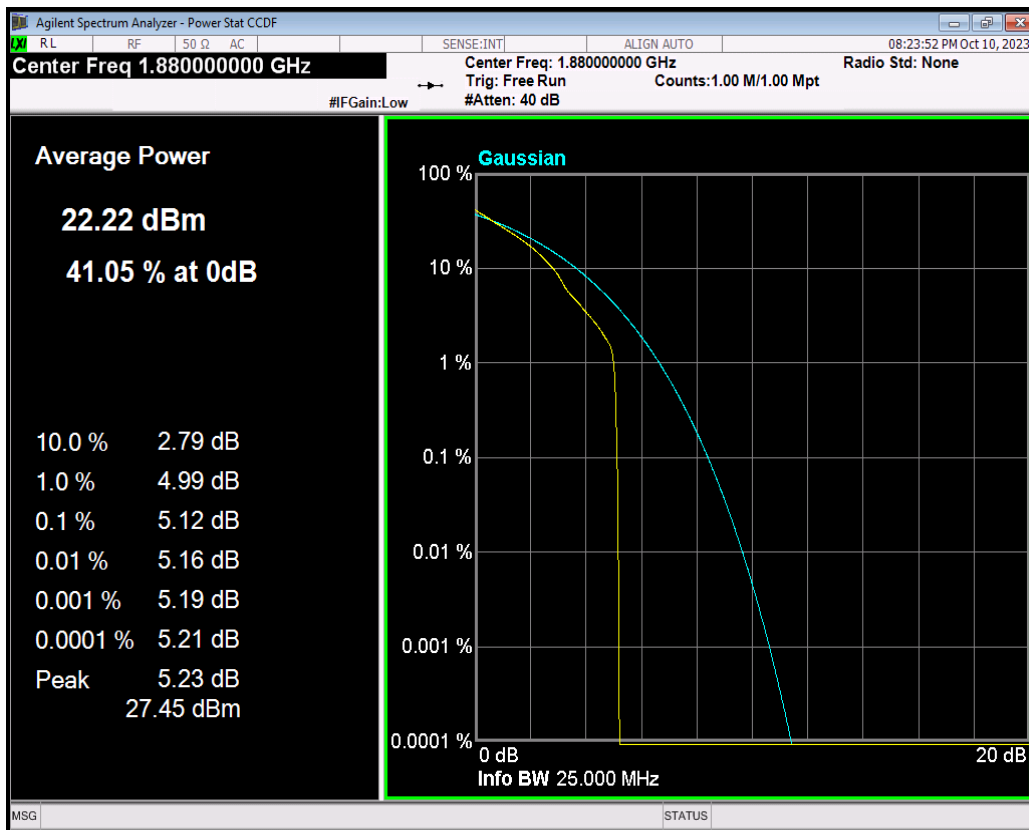
Band2 QPSK BW=15MHz Channel=19125 RB Size=1 Position=#0



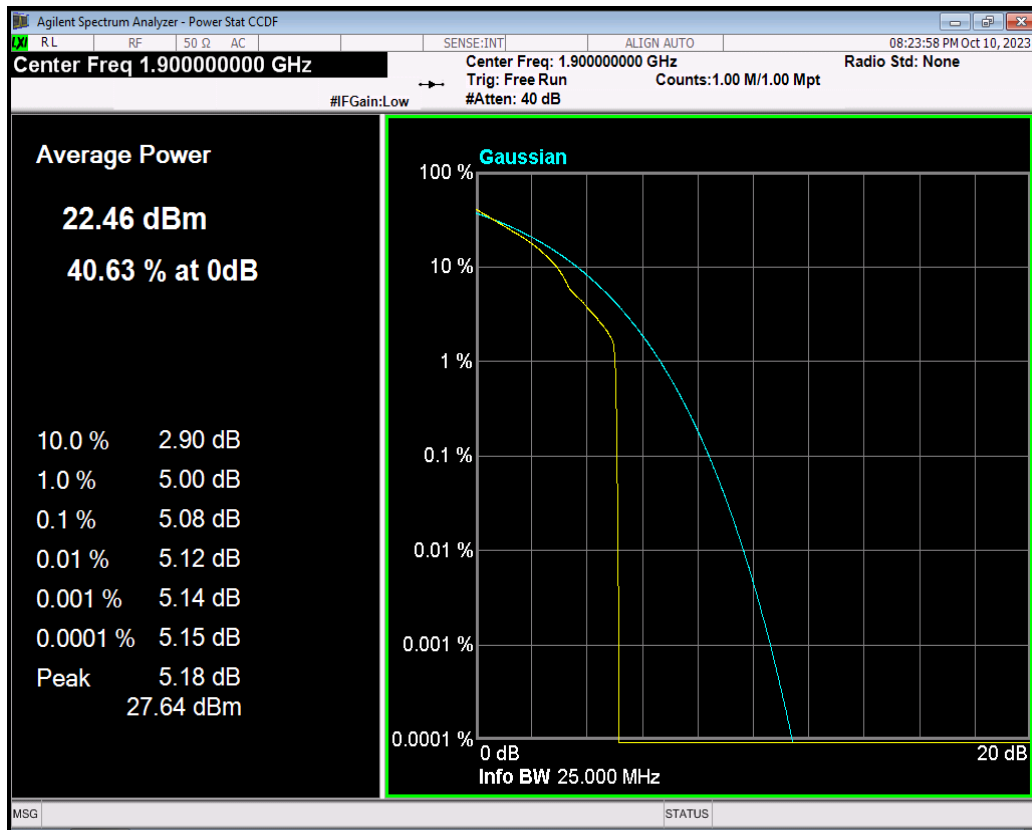
Band2 QPSK BW=20MHz Channel=18700 RB Size=1 Position=#0



Band2 QPSK BW=20MHz Channel=18900 RB Size=1 Position=#0



Band2 QPSK BW=20MHz Channel=19100 RB Size=1 Position=#0

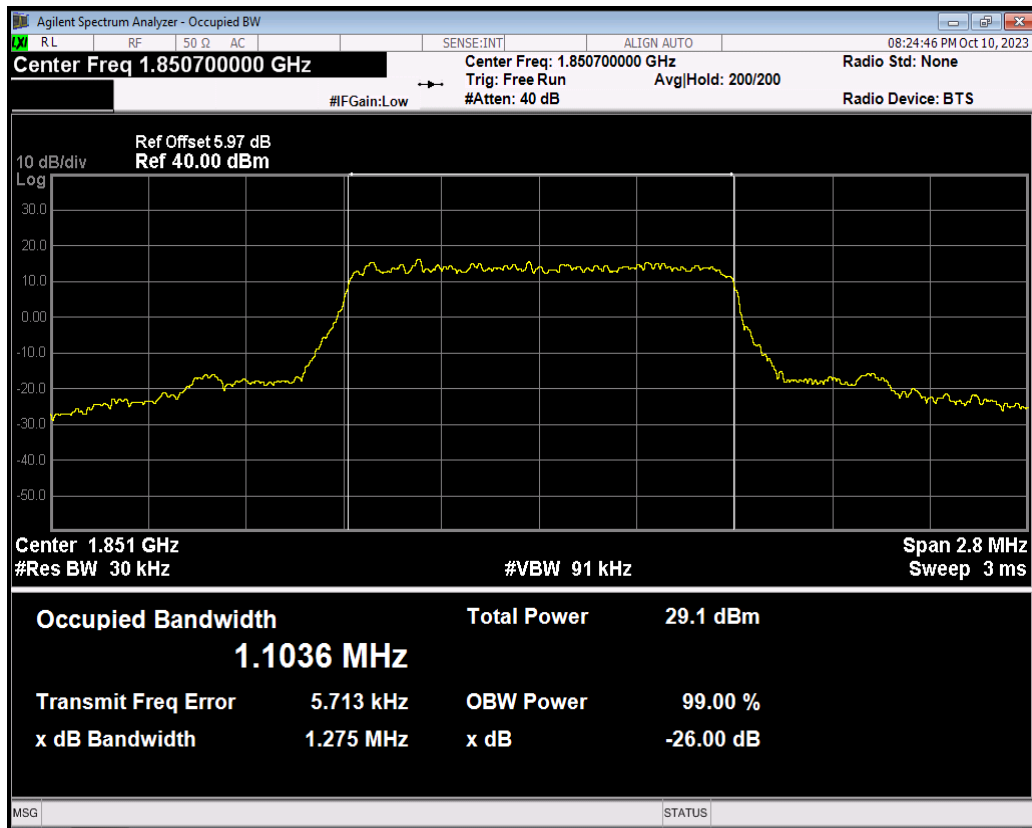


Appendix 4. Occupied bandwidth

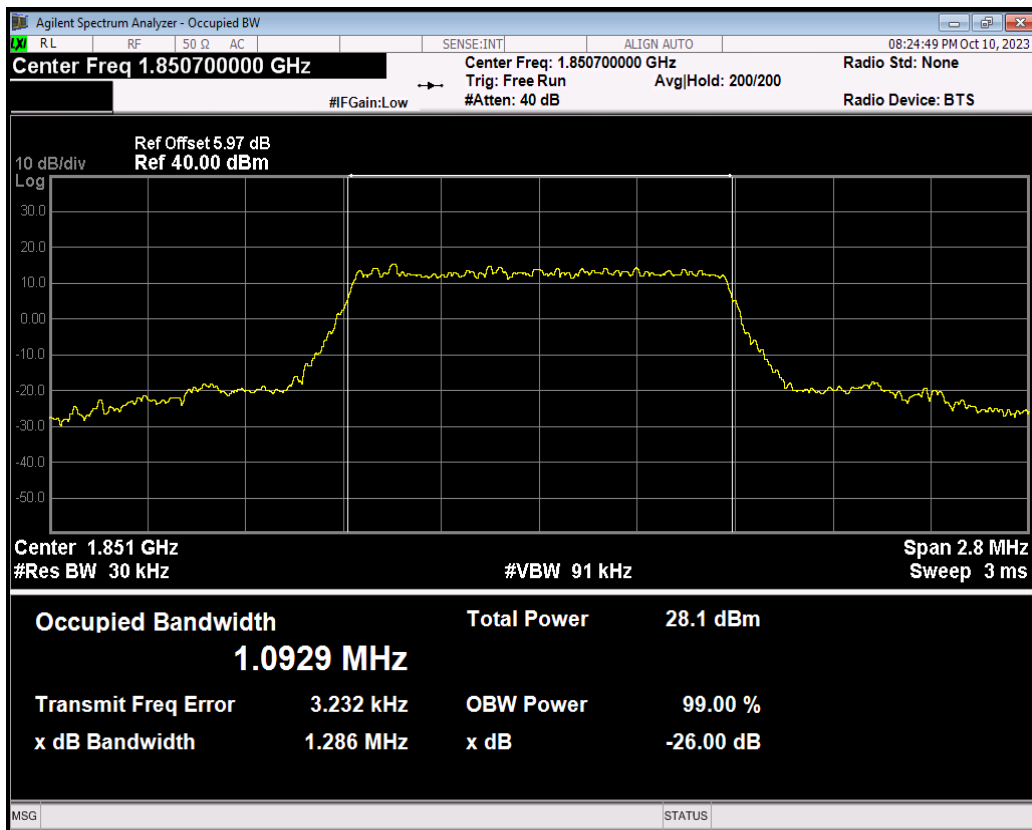
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band2	1.4	18607	6	#0	QPSK	1.104	1.275	PASS
Band2	1.4	18607	6	#0	16QAM	1.093	1.286	PASS
Band2	1.4	18900	6	#0	QPSK	1.096	1.309	PASS
Band2	1.4	18900	6	#0	16QAM	1.099	1.296	PASS
Band2	1.4	19193	6	#0	QPSK	1.096	1.282	PASS
Band2	1.4	19193	6	#0	16QAM	1.101	1.283	PASS
Band2	3	18615	15	#0	QPSK	2.711	2.963	PASS
Band2	3	18615	15	#0	16QAM	2.708	2.981	PASS
Band2	3	18900	15	#0	QPSK	2.704	2.961	PASS
Band2	3	18900	15	#0	16QAM	2.704	3.008	PASS
Band2	3	19185	15	#0	QPSK	2.700	2.961	PASS
Band2	3	19185	15	#0	16QAM	2.699	2.992	PASS
Band2	5	18625	25	#0	QPSK	4.537	4.984	PASS
Band2	5	18625	25	#0	16QAM	4.503	4.924	PASS
Band2	5	18900	25	#0	QPSK	4.523	4.981	PASS
Band2	5	18900	25	#0	16QAM	4.532	5.018	PASS
Band2	5	19175	25	#0	QPSK	4.512	4.970	PASS
Band2	5	19175	25	#0	16QAM	4.503	4.965	PASS
Band2	10	18650	50	#0	QPSK	8.936	9.766	PASS
Band2	10	18900	50	#0	QPSK	8.962	9.766	PASS
Band2	10	19150	50	#0	QPSK	8.995	9.851	PASS
Band2	15	18675	75	#0	QPSK	13.396	14.669	PASS
Band2	15	18900	75	#0	QPSK	13.409	14.419	PASS
Band2	15	19125	75	#0	QPSK	13.475	14.559	PASS
Band2	20	18700	100	#0	QPSK	17.847	19.196	PASS
Band2	20	18900	100	#0	QPSK	17.897	19.292	PASS
Band2	20	19100	100	#0	QPSK	17.981	19.361	PASS



Band2 QPSK BW=1.4MHz Channel=18607 RB Size=6 Position=#0

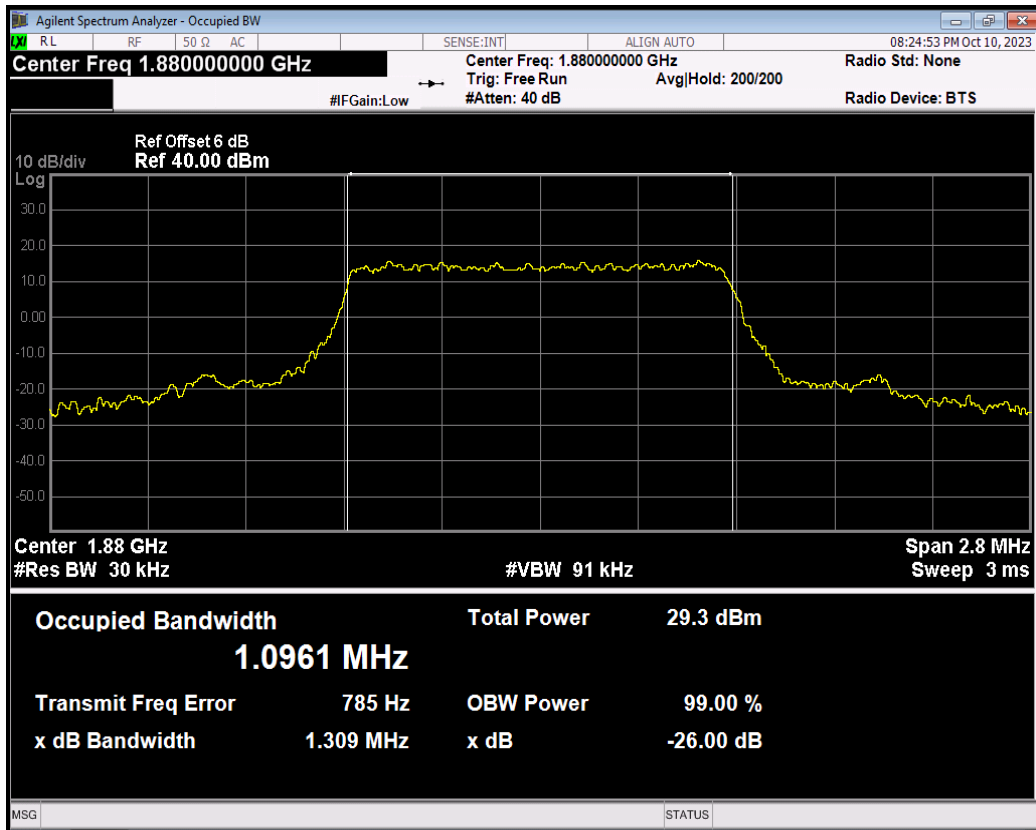


Band2 16QAM BW=1.4MHz Channel=18607 RB Size=6 Position=#0

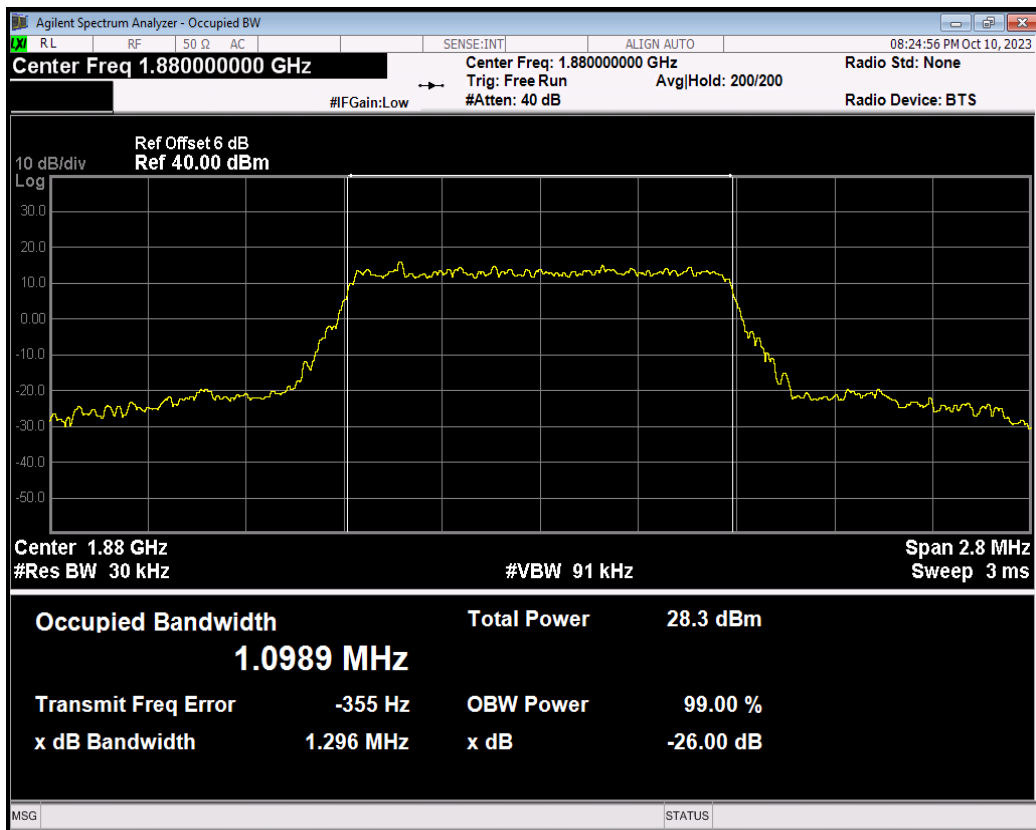




Band2 QPSK BW=1.4MHz Channel=18900 RB Size=6 Position=#0

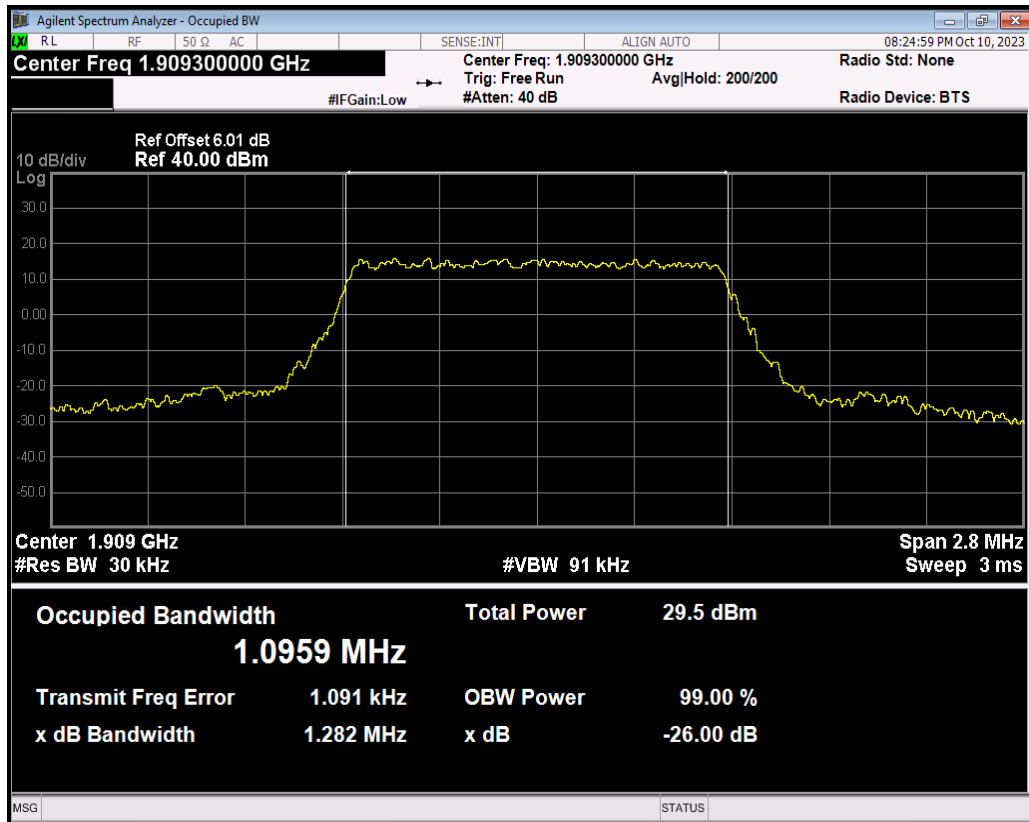


Band2 16QAM BW=1.4MHz Channel=18900 RB Size=6 Position=#0

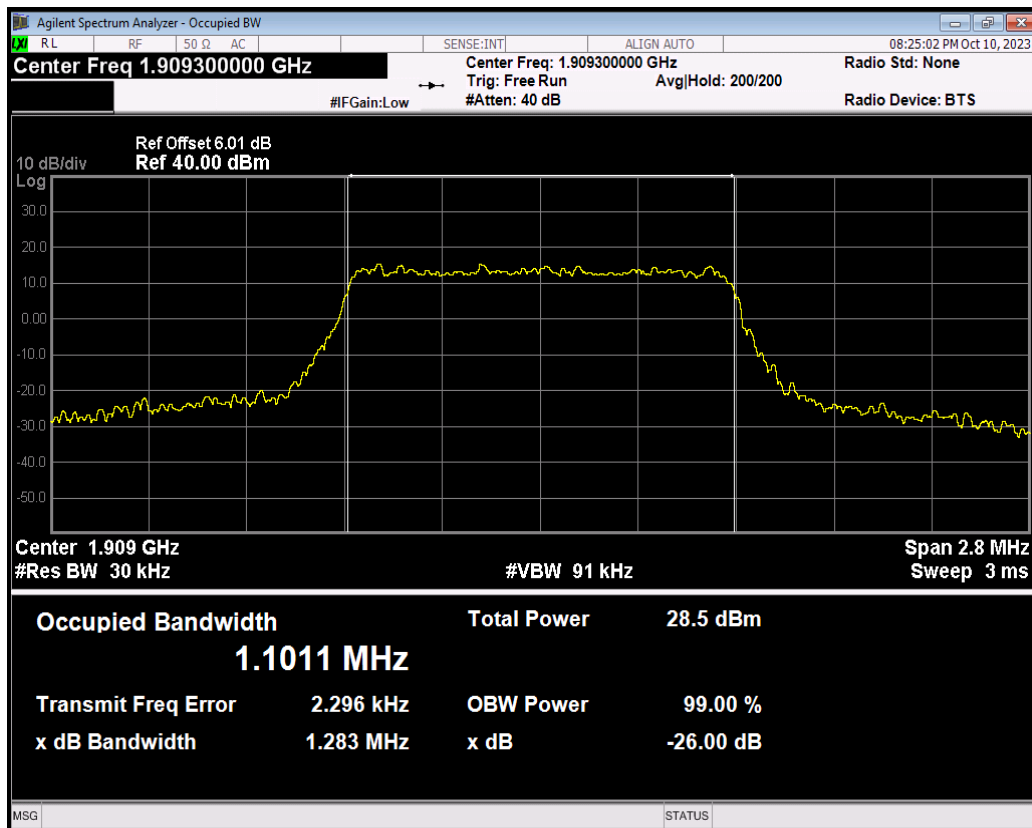




Band2 QPSK BW=1.4MHz Channel=19193 RB Size=6 Position=#0

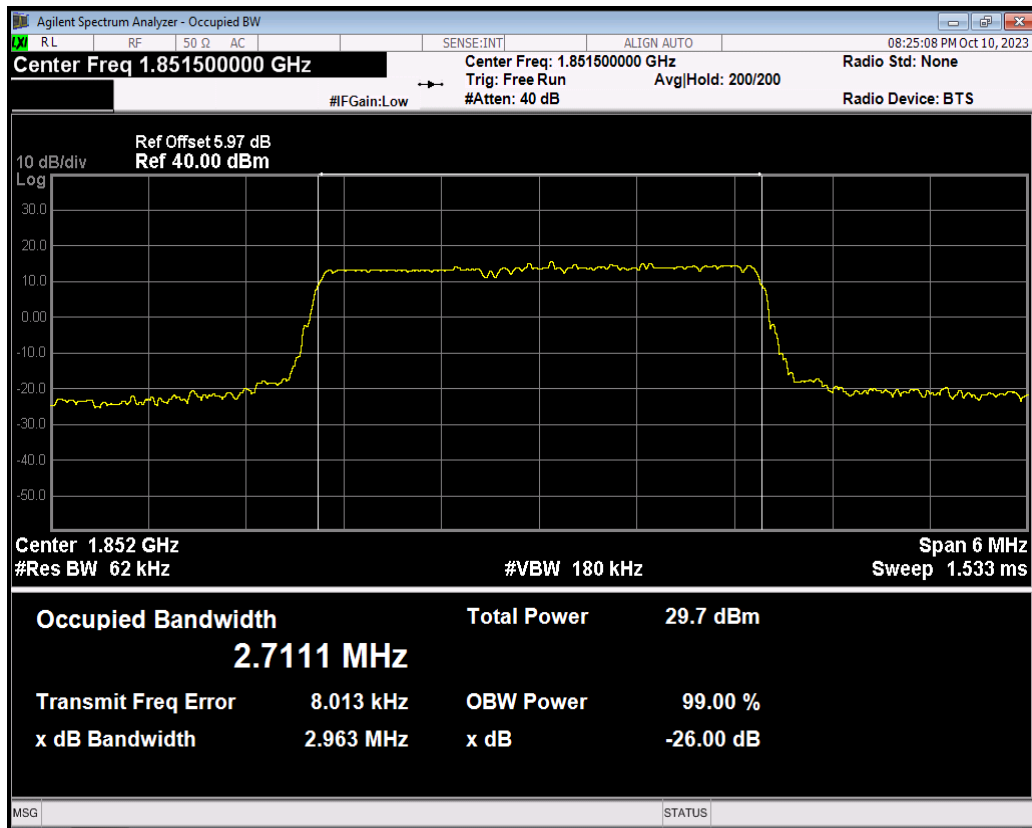


Band2 16QAM BW=1.4MHz Channel=19193 RB Size=6 Position=#0

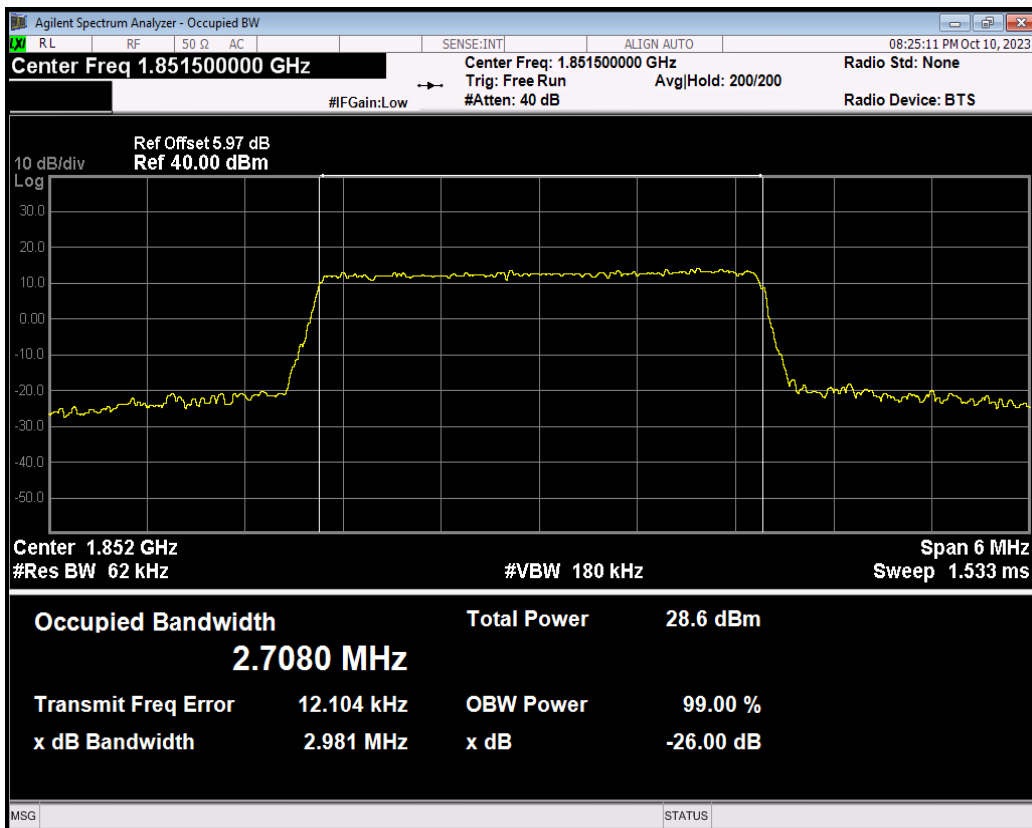




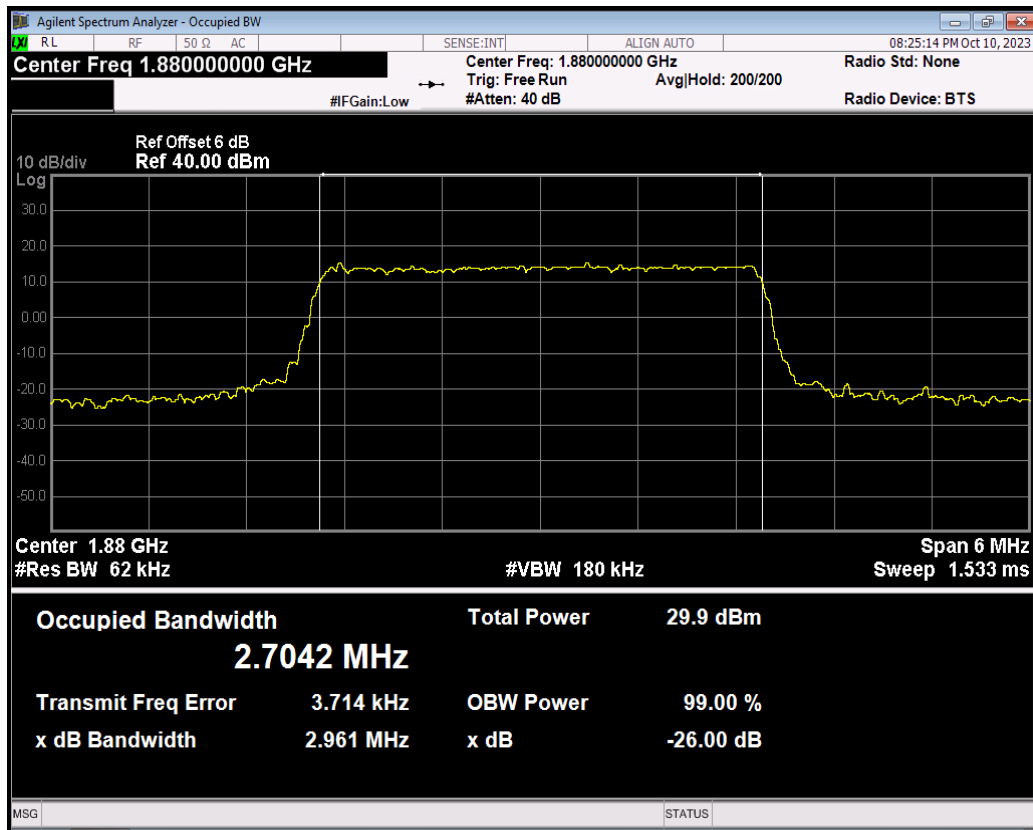
Band2 QPSK BW=3MHz Channel=18615 RB Size=15 Position=#0



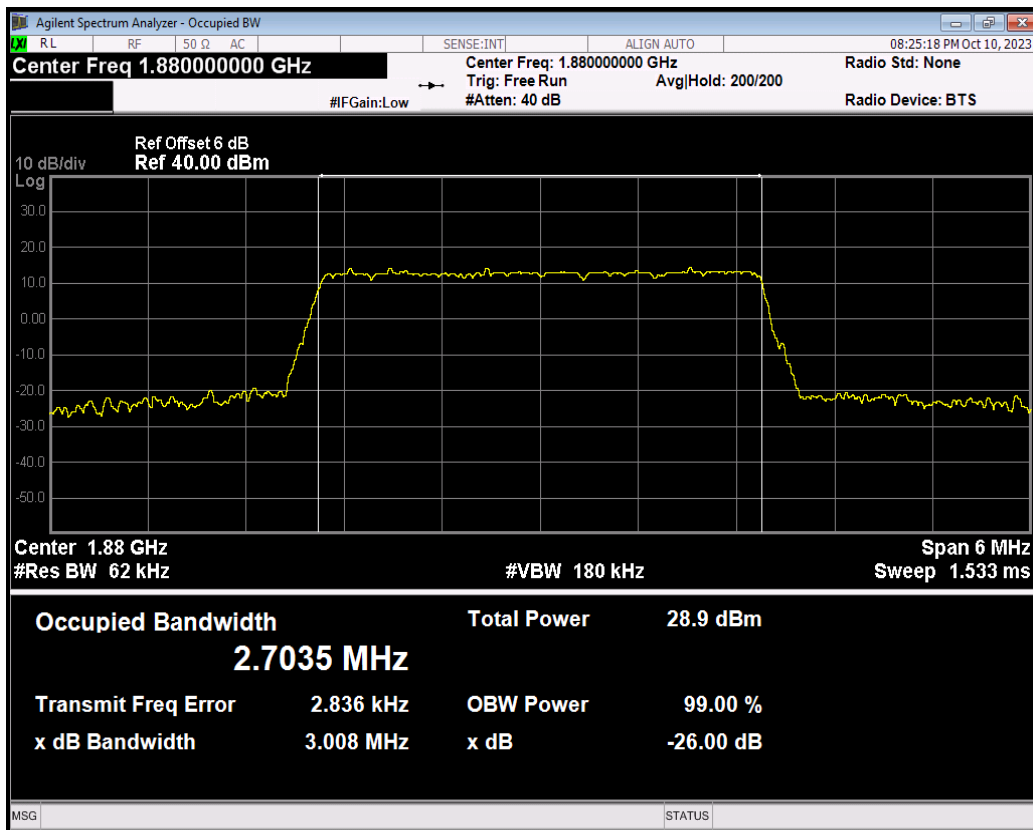
Band2 16QAM BW=3MHz Channel=18615 RB Size=15 Position=#0



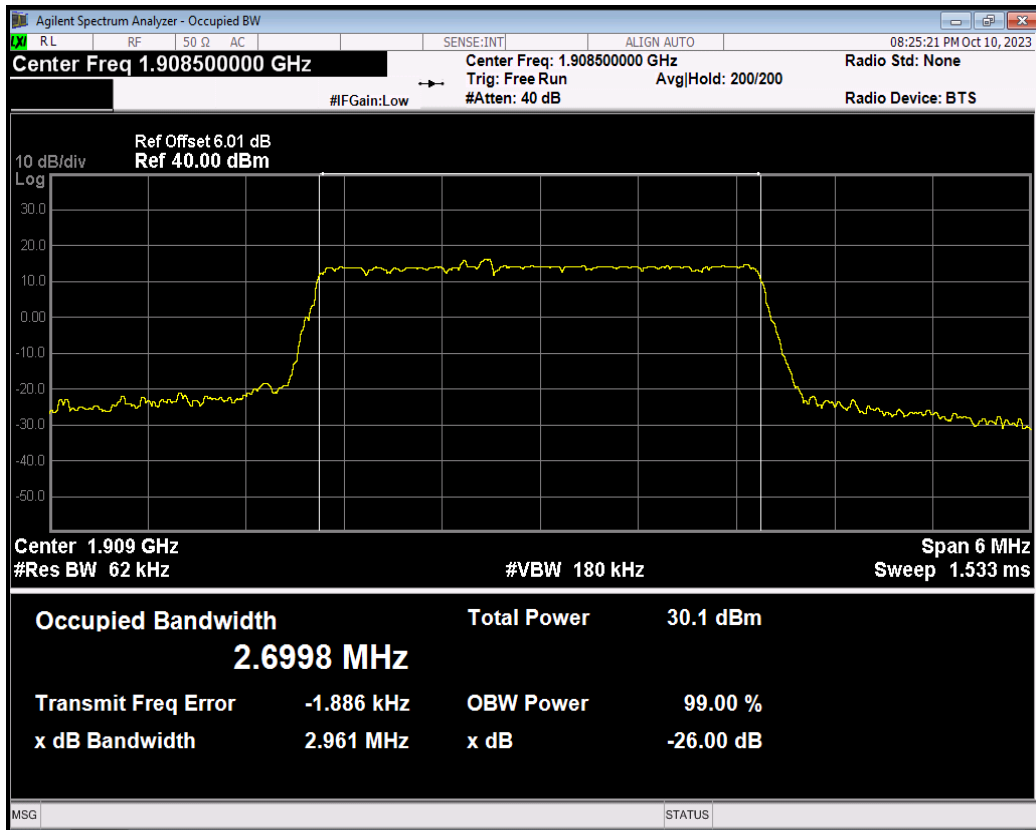
Band2 QPSK BW=3MHz Channel=18900 RB Size=15 Position=#0



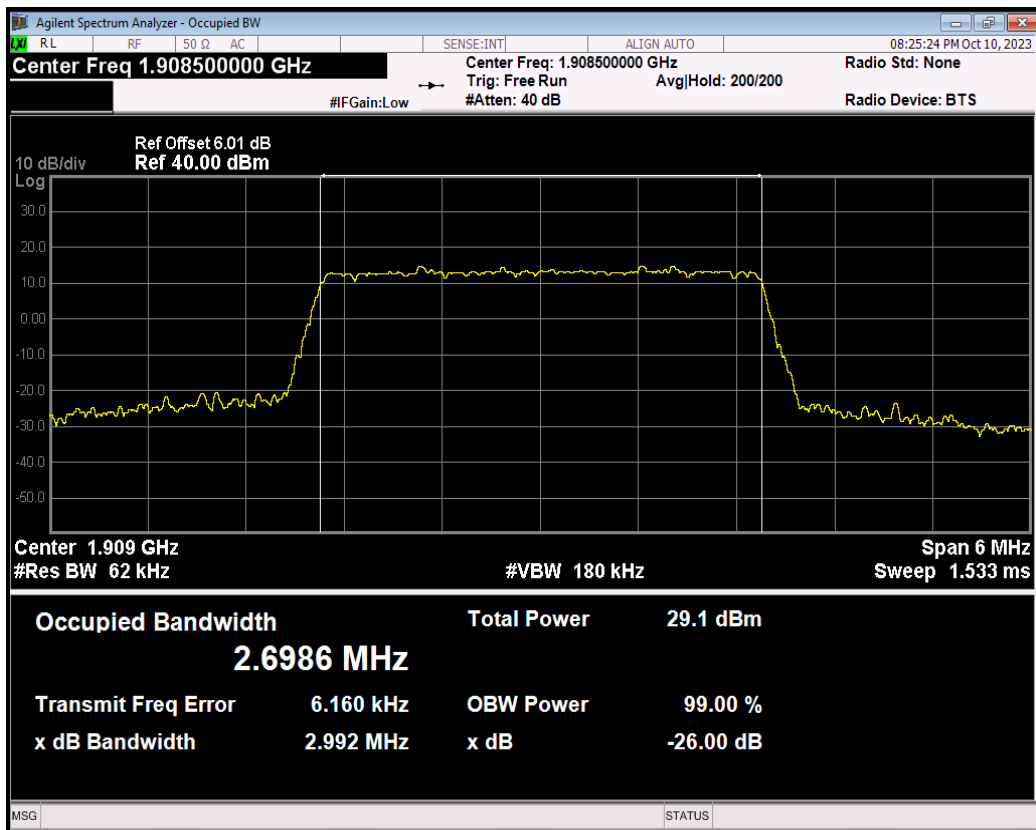
Band2 16QAM BW=3MHz Channel=18900 RB Size=15 Position=#0



Band2 QPSK BW=3MHz Channel=19185 RB Size=15 Position=#0

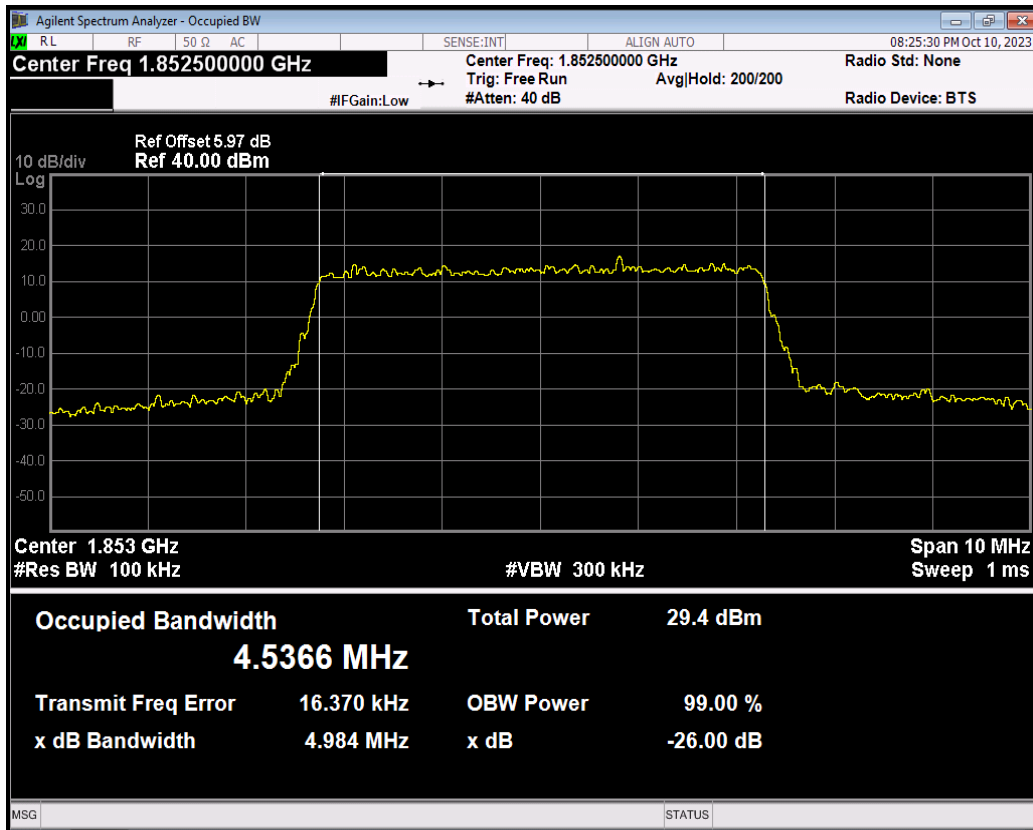


Band2 16QAM BW=3MHz Channel=19185 RB Size=15 Position=#0

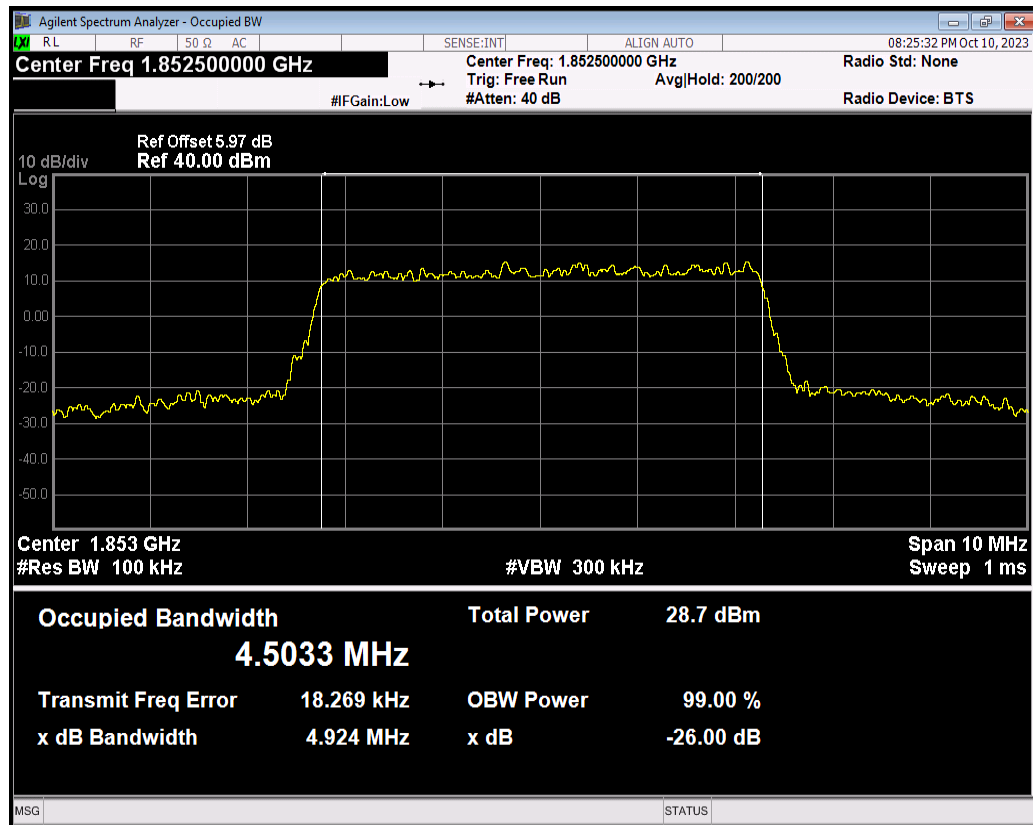




Band2 QPSK BW=5MHz Channel=18625 RB Size=25 Position=#0

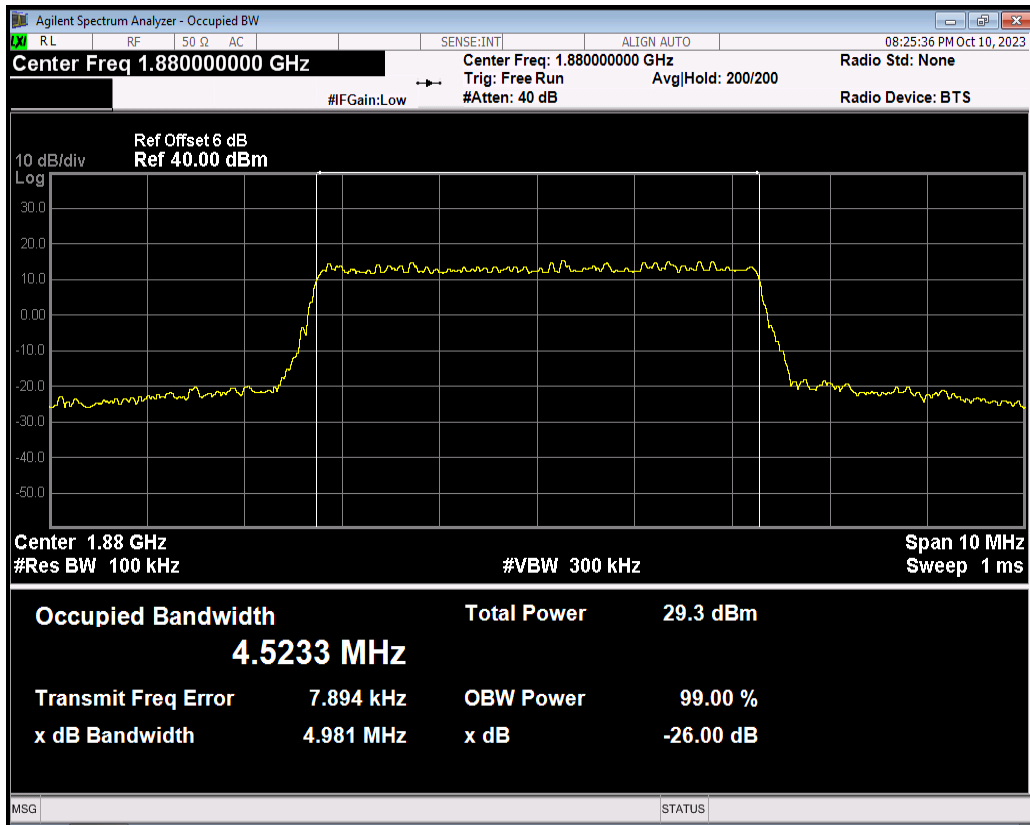


Band2 16QAM BW=5MHz Channel=18625 RB Size=25 Position=#0





Band2 QPSK BW=5MHz Channel=18900 RB Size=25 Position=#0



Band2 16QAM BW=5MHz Channel=18900 RB Size=25 Position=#0

