

Band 2

Report No.: BCTC2207600963-2E

Applicant: Soliton Systems K.K.

Product Name: Multi link Unit

Model/Type
reference: IFC-MLU-G-H

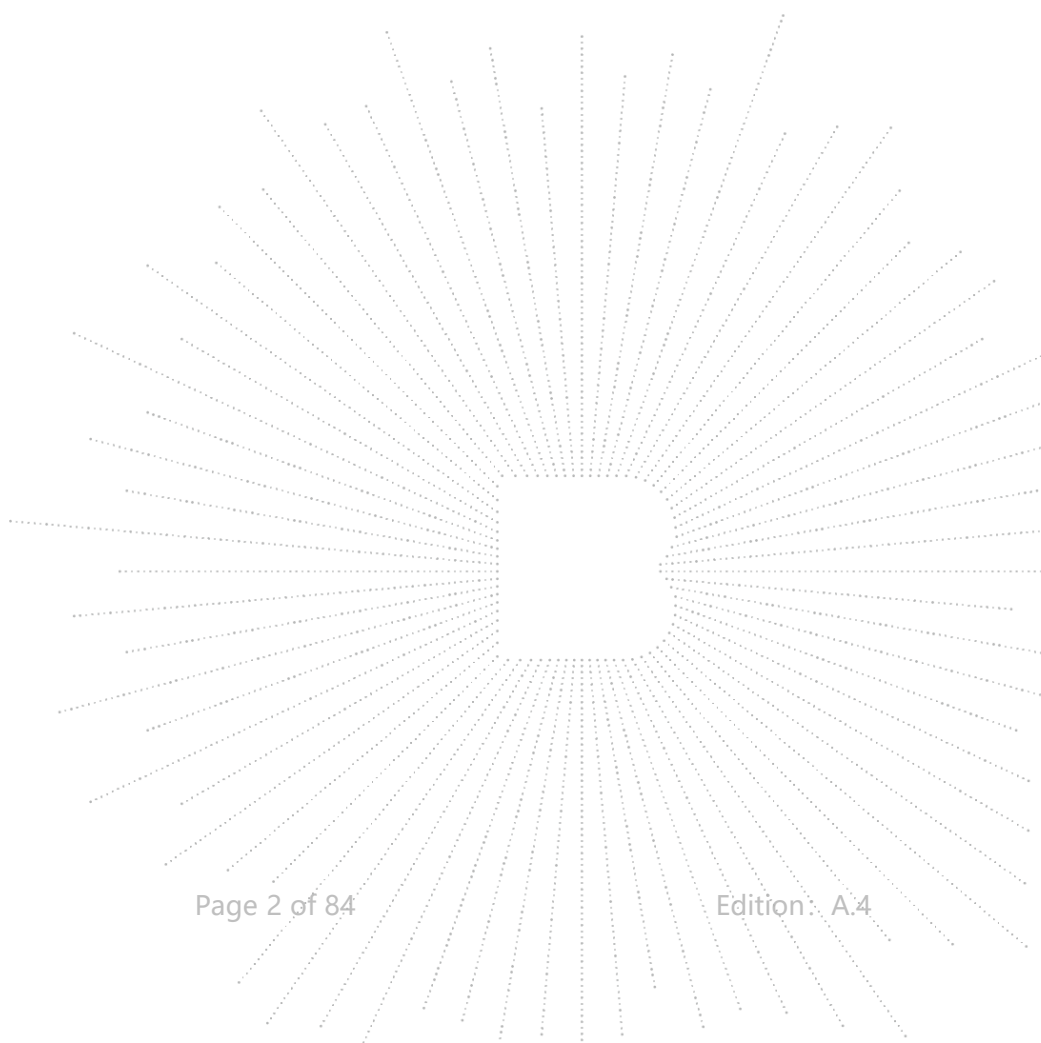
Tested Date: 2022-07-26 to 2022-08-26

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Shenzhen BCTC Testing Co., Ltd.

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Appendix1. Conducted output power

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band2	1.4	18607	1	#0	QPSK	22.28	PASS
Band2	1.4	18607	1	#Mid	QPSK	22.33	PASS
Band2	1.4	18607	1	#Max	QPSK	22.27	PASS
Band2	1.4	18607	3	#0	QPSK	22.13	PASS
Band2	1.4	18607	3	#Mid	QPSK	22.17	PASS
Band2	1.4	18607	3	#Max	QPSK	22.11	PASS
Band2	1.4	18607	6	#0	QPSK	21.20	PASS
Band2	1.4	18607	1	#0	QAM16	21.16	PASS
Band2	1.4	18607	1	#Mid	QAM16	21.24	PASS
Band2	1.4	18607	1	#Max	QAM16	21.13	PASS
Band2	1.4	18607	3	#0	QAM16	21.15	PASS
Band2	1.4	18607	3	#Mid	QAM16	21.07	PASS
Band2	1.4	18607	3	#Max	QAM16	21.16	PASS
Band2	1.4	18607	6	#0	QAM16	20.12	PASS
Band2	1.4	18900	1	#0	QPSK	22.11	PASS
Band2	1.4	18900	1	#Mid	QPSK	22.18	PASS
Band2	1.4	18900	1	#Max	QPSK	22.08	PASS
Band2	1.4	18900	3	#0	QPSK	21.94	PASS
Band2	1.4	18900	3	#Mid	QPSK	21.97	PASS
Band2	1.4	18900	3	#Max	QPSK	21.87	PASS
Band2	1.4	18900	6	#0	QPSK	20.95	PASS
Band2	1.4	18900	1	#0	QAM16	21.00	PASS
Band2	1.4	18900	1	#Mid	QAM16	21.00	PASS
Band2	1.4	18900	1	#Max	QAM16	20.77	PASS
Band2	1.4	18900	3	#0	QAM16	20.99	PASS
Band2	1.4	18900	3	#Mid	QAM16	21.07	PASS
Band2	1.4	18900	3	#Max	QAM16	20.93	PASS
Band2	1.4	18900	6	#0	QAM16	20.02	PASS
Band2	1.4	19193	1	#0	QPSK	21.75	PASS
Band2	1.4	19193	1	#Mid	QPSK	21.91	PASS
Band2	1.4	19193	1	#Max	QPSK	21.78	PASS
Band2	1.4	19193	3	#0	QPSK	21.82	PASS
Band2	1.4	19193	3	#Mid	QPSK	21.93	PASS
Band2	1.4	19193	3	#Max	QPSK	21.89	PASS
Band2	1.4	19193	6	#0	QPSK	20.99	PASS
Band2	1.4	19193	1	#0	QAM16	20.93	PASS
Band2	1.4	19193	1	#Mid	QAM16	21.11	PASS
Band2	1.4	19193	1	#Max	QAM16	20.89	PASS
Band2	1.4	19193	3	#0	QAM16	20.95	PASS

Band2	1.4	19193	3	#Mid	QAM16	21.02	PASS
Band2	1.4	19193	3	#Max	QAM16	20.94	PASS
Band2	1.4	19193	6	#0	QAM16	20.01	PASS
Band2	3	18615	1	#0	QPSK	22.13	PASS
Band2	3	18615	1	#Mid	QPSK	22.27	PASS
Band2	3	18615	1	#Max	QPSK	22.21	PASS
Band2	3	18615	8	#0	QPSK	21.16	PASS
Band2	3	18615	8	#Mid	QPSK	21.17	PASS
Band2	3	18615	8	#Max	QPSK	21.15	PASS
Band2	3	18615	15	#0	QPSK	21.14	PASS
Band2	3	18615	1	#0	QAM16	21.09	PASS
Band2	3	18615	1	#Mid	QAM16	21.26	PASS
Band2	3	18615	1	#Max	QAM16	21.05	PASS
Band2	3	18615	8	#0	QAM16	20.17	PASS
Band2	3	18615	8	#Mid	QAM16	20.19	PASS
Band2	3	18615	8	#Max	QAM16	20.18	PASS
Band2	3	18615	15	#0	QAM16	20.17	PASS
Band2	3	18900	1	#0	QPSK	21.86	PASS
Band2	3	18900	1	#Mid	QPSK	22.11	PASS
Band2	3	18900	1	#Max	QPSK	21.85	PASS
Band2	3	18900	8	#0	QPSK	21.00	PASS
Band2	3	18900	8	#Mid	QPSK	21.00	PASS
Band2	3	18900	8	#Max	QPSK	21.04	PASS
Band2	3	18900	15	#0	QPSK	20.97	PASS
Band2	3	18900	1	#0	QAM16	20.81	PASS
Band2	3	18900	1	#Mid	QAM16	20.97	PASS
Band2	3	18900	1	#Max	QAM16	20.78	PASS
Band2	3	18900	8	#0	QAM16	19.95	PASS
Band2	3	18900	8	#Mid	QAM16	19.95	PASS
Band2	3	18900	8	#Max	QAM16	19.99	PASS
Band2	3	18900	15	#0	QAM16	20.00	PASS
Band2	3	19185	1	#0	QPSK	22.00	PASS
Band2	3	19185	1	#Mid	QPSK	22.34	PASS
Band2	3	19185	1	#Max	QPSK	22.09	PASS
Band2	3	19185	8	#0	QPSK	20.98	PASS
Band2	3	19185	8	#Mid	QPSK	20.91	PASS
Band2	3	19185	8	#Max	QPSK	20.92	PASS
Band2	3	19185	15	#0	QPSK	20.95	PASS
Band2	3	19185	1	#0	QAM16	20.84	PASS
Band2	3	19185	1	#Mid	QAM16	21.09	PASS
Band2	3	19185	1	#Max	QAM16	20.97	PASS
Band2	3	19185	8	#0	QAM16	19.88	PASS
Band2	3	19185	8	#Mid	QAM16	19.88	PASS
Band2	3	19185	8	#Max	QAM16	19.84	PASS

Band2	3	19185	15	#0	QAM16	19.86	PASS
Band2	5	18625	1	#0	QPSK	21.80	PASS
Band2	5	18625	1	#Mid	QPSK	22.09	PASS
Band2	5	18625	1	#Max	QPSK	21.85	PASS
Band2	5	18625	12	#0	QPSK	21.05	PASS
Band2	5	18625	12	#Mid	QPSK	21.03	PASS
Band2	5	18625	12	#Max	QPSK	21.03	PASS
Band2	5	18625	25	#0	QPSK	20.99	PASS
Band2	5	18625	1	#0	QAM16	20.90	PASS
Band2	5	18625	1	#Mid	QAM16	21.05	PASS
Band2	5	18625	1	#Max	QAM16	20.85	PASS
Band2	5	18625	12	#0	QAM16	20.01	PASS
Band2	5	18625	12	#Mid	QAM16	20.09	PASS
Band2	5	18625	12	#Max	QAM16	20.06	PASS
Band2	5	18625	25	#0	QAM16	20.03	PASS
Band2	5	18900	1	#0	QPSK	21.75	PASS
Band2	5	18900	1	#Mid	QPSK	21.97	PASS
Band2	5	18900	1	#Max	QPSK	21.85	PASS
Band2	5	18900	12	#0	QPSK	20.87	PASS
Band2	5	18900	12	#Mid	QPSK	20.98	PASS
Band2	5	18900	12	#Max	QPSK	20.90	PASS
Band2	5	18900	25	#0	QPSK	20.91	PASS
Band2	5	18900	1	#0	QAM16	20.50	PASS
Band2	5	18900	1	#Mid	QAM16	20.88	PASS
Band2	5	18900	1	#Max	QAM16	20.84	PASS
Band2	5	18900	12	#0	QAM16	19.85	PASS
Band2	5	18900	12	#Mid	QAM16	19.90	PASS
Band2	5	18900	12	#Max	QAM16	19.96	PASS
Band2	5	18900	25	#0	QAM16	19.91	PASS
Band2	5	19175	1	#0	QPSK	21.79	PASS
Band2	5	19175	1	#Mid	QPSK	22.04	PASS
Band2	5	19175	1	#Max	QPSK	21.73	PASS
Band2	5	19175	12	#0	QPSK	20.95	PASS
Band2	5	19175	12	#Mid	QPSK	21.00	PASS
Band2	5	19175	12	#Max	QPSK	20.95	PASS
Band2	5	19175	25	#0	QPSK	20.92	PASS
Band2	5	19175	1	#0	QAM16	20.85	PASS
Band2	5	19175	1	#Mid	QAM16	20.98	PASS
Band2	5	19175	1	#Max	QAM16	20.89	PASS
Band2	5	19175	12	#0	QAM16	19.80	PASS
Band2	5	19175	12	#Mid	QAM16	19.83	PASS
Band2	5	19175	12	#Max	QAM16	19.85	PASS
Band2	5	19175	25	#0	QAM16	19.94	PASS
Band2	10	18650	1	#0	QPSK	22.26	PASS

Band2	10	18650	1	#Mid	QPSK	22.06	PASS
Band2	10	18650	1	#Max	QPSK	22.19	PASS
Band2	10	18650	25	#0	QPSK	21.09	PASS
Band2	10	18650	25	#Mid	QPSK	20.99	PASS
Band2	10	18650	25	#Max	QPSK	20.94	PASS
Band2	10	18650	50	#0	QPSK	21.10	PASS
Band2	10	18650	1	#0	QAM16	21.00	PASS
Band2	10	18650	1	#Mid	QAM16	21.03	PASS
Band2	10	18650	1	#Max	QAM16	20.88	PASS
Band2	10	18650	25	#0	QAM16	20.10	PASS
Band2	10	18650	25	#Mid	QAM16	20.08	PASS
Band2	10	18650	25	#Max	QAM16	19.98	PASS
Band2	10	18650	50	#0	QAM16	20.06	PASS
Band2	10	18900	1	#0	QPSK	21.88	PASS
Band2	10	18900	1	#Mid	QPSK	21.91	PASS
Band2	10	18900	1	#Max	QPSK	21.92	PASS
Band2	10	18900	25	#0	QPSK	20.92	PASS
Band2	10	18900	25	#Mid	QPSK	20.87	PASS
Band2	10	18900	25	#Max	QPSK	20.95	PASS
Band2	10	18900	50	#0	QPSK	20.90	PASS
Band2	10	18900	1	#0	QAM16	20.65	PASS
Band2	10	18900	1	#Mid	QAM16	20.84	PASS
Band2	10	18900	1	#Max	QAM16	20.76	PASS
Band2	10	18900	25	#0	QAM16	19.90	PASS
Band2	10	18900	25	#Mid	QAM16	19.92	PASS
Band2	10	18900	25	#Max	QAM16	19.97	PASS
Band2	10	18900	50	#0	QAM16	19.89	PASS
Band2	10	19150	1	#0	QPSK	22.03	PASS
Band2	10	19150	1	#Mid	QPSK	22.20	PASS
Band2	10	19150	1	#Max	QPSK	22.08	PASS
Band2	10	19150	25	#0	QPSK	20.98	PASS
Band2	10	19150	25	#Mid	QPSK	21.01	PASS
Band2	10	19150	25	#Max	QPSK	20.86	PASS
Band2	10	19150	50	#0	QPSK	20.84	PASS
Band2	10	19150	1	#0	QAM16	20.81	PASS
Band2	10	19150	1	#Mid	QAM16	20.91	PASS
Band2	10	19150	1	#Max	QAM16	20.84	PASS
Band2	10	19150	25	#0	QAM16	19.96	PASS
Band2	10	19150	25	#Mid	QAM16	19.99	PASS
Band2	10	19150	25	#Max	QAM16	19.86	PASS
Band2	10	19150	50	#0	QAM16	19.88	PASS
Band2	15	18675	1	#0	QPSK	22.15	PASS
Band2	15	18675	1	#Mid	QPSK	22.23	PASS
Band2	15	18675	1	#Max	QPSK	21.95	PASS

Band2	15	18675	36	#0	QPSK	21.00	PASS
Band2	15	18675	36	#Mid	QPSK	21.01	PASS
Band2	15	18675	36	#Max	QPSK	20.92	PASS
Band2	15	18675	75	#0	QPSK	20.97	PASS
Band2	15	18675	1	#0	QAM16	20.95	PASS
Band2	15	18675	1	#Mid	QAM16	21.12	PASS
Band2	15	18675	1	#Max	QAM16	20.79	PASS
Band2	15	18675	36	#0	QAM16	20.05	PASS
Band2	15	18675	36	#Mid	QAM16	19.98	PASS
Band2	15	18675	36	#Max	QAM16	19.98	PASS
Band2	15	18675	75	#0	QAM16	19.95	PASS
Band2	15	18900	1	#0	QPSK	21.93	PASS
Band2	15	18900	1	#Mid	QPSK	22.02	PASS
Band2	15	18900	1	#Max	QPSK	21.84	PASS
Band2	15	18900	36	#0	QPSK	20.85	PASS
Band2	15	18900	36	#Mid	QPSK	20.99	PASS
Band2	15	18900	36	#Max	QPSK	21.00	PASS
Band2	15	18900	75	#0	QPSK	20.85	PASS
Band2	15	18900	1	#0	QAM16	21.07	PASS
Band2	15	18900	1	#Mid	QAM16	21.13	PASS
Band2	15	18900	1	#Max	QAM16	20.88	PASS
Band2	15	18900	36	#0	QAM16	19.94	PASS
Band2	15	18900	36	#Mid	QAM16	19.93	PASS
Band2	15	18900	36	#Max	QAM16	20.02	PASS
Band2	15	18900	75	#0	QAM16	19.96	PASS
Band2	15	19125	1	#0	QPSK	21.75	PASS
Band2	15	19125	1	#Mid	QPSK	21.98	PASS
Band2	15	19125	1	#Max	QPSK	21.77	PASS
Band2	15	19125	36	#0	QPSK	20.89	PASS
Band2	15	19125	36	#Mid	QPSK	21.05	PASS
Band2	15	19125	36	#Max	QPSK	21.00	PASS
Band2	15	19125	75	#0	QPSK	20.90	PASS
Band2	15	19125	1	#0	QAM16	21.01	PASS
Band2	15	19125	1	#Mid	QAM16	21.10	PASS
Band2	15	19125	1	#Max	QAM16	21.04	PASS
Band2	15	19125	36	#0	QAM16	19.88	PASS
Band2	15	19125	36	#Mid	QAM16	20.06	PASS
Band2	15	19125	36	#Max	QAM16	19.94	PASS
Band2	15	19125	75	#0	QAM16	19.93	PASS
Band2	20	18700	1	#0	QPSK	21.85	PASS
Band2	20	18700	1	#Mid	QPSK	21.92	PASS
Band2	20	18700	1	#Max	QPSK	21.87	PASS
Band2	20	18700	50	#0	QPSK	21.01	PASS
Band2	20	18700	50	#Mid	QPSK	20.86	PASS

Band2	20	18700	50	#Max	QPSK	20.83	PASS
Band2	20	18700	100	#0	QPSK	20.86	PASS
Band2	20	18700	1	#0	QAM16	20.74	PASS
Band2	20	18700	1	#Mid	QAM16	20.86	PASS
Band2	20	18700	1	#Max	QAM16	20.67	PASS
Band2	20	18700	50	#0	QAM16	19.99	PASS
Band2	20	18700	50	#Mid	QAM16	19.94	PASS
Band2	20	18700	50	#Max	QAM16	19.94	PASS
Band2	20	18700	100	#0	QAM16	19.89	PASS
Band2	20	18900	1	#0	QPSK	22.07	PASS
Band2	20	18900	1	#Mid	QPSK	22.00	PASS
Band2	20	18900	1	#Max	QPSK	21.97	PASS
Band2	20	18900	50	#0	QPSK	20.83	PASS
Band2	20	18900	50	#Mid	QPSK	20.90	PASS
Band2	20	18900	50	#Max	QPSK	20.89	PASS
Band2	20	18900	100	#0	QPSK	20.77	PASS
Band2	20	18900	1	#0	QAM16	20.73	PASS
Band2	20	18900	1	#Mid	QAM16	20.69	PASS
Band2	20	18900	1	#Max	QAM16	20.57	PASS
Band2	20	18900	50	#0	QAM16	19.87	PASS
Band2	20	18900	50	#Mid	QAM16	19.84	PASS
Band2	20	18900	50	#Max	QAM16	19.96	PASS
Band2	20	18900	100	#0	QAM16	19.86	PASS
Band2	20	19100	1	#0	QPSK	21.80	PASS
Band2	20	19100	1	#Mid	QPSK	21.82	PASS
Band2	20	19100	1	#Max	QPSK	21.80	PASS
Band2	20	19100	50	#0	QPSK	20.92	PASS
Band2	20	19100	50	#Mid	QPSK	20.91	PASS
Band2	20	19100	50	#Max	QPSK	20.87	PASS
Band2	20	19100	100	#0	QPSK	20.81	PASS
Band2	20	19100	1	#0	QAM16	20.96	PASS
Band2	20	19100	1	#Mid	QAM16	20.79	PASS
Band2	20	19100	1	#Max	QAM16	20.73	PASS
Band2	20	19100	50	#0	QAM16	19.92	PASS
Band2	20	19100	50	#Mid	QAM16	19.92	PASS
Band2	20	19100	50	#Max	QAM16	19.83	PASS
Band2	20	19100	100	#0	QAM16	19.87	PASS

Appendix2. 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	-2.37	-0.001	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	NV	NT	-2.37	-0.001	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QPSK	HV	NT	-2.35	-0.001	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	LV	NT	-3.00	-0.002	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	NV	NT	-2.83	-0.002	-2.5	2.5	PASS
Band 2	1.4	18607	6	#0	QAM16	HV	NT	-2.05	-0.001	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	LV	NT	-2.00	-0.001	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	NV	NT	-2.46	-0.001	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QPSK	HV	NT	-1.96	-0.001	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	LV	NT	-3.22	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	NV	NT	-2.92	-0.002	-2.5	2.5	PASS
Band 2	1.4	18900	6	#0	QAM16	HV	NT	-3.18	-0.002	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	LV	NT	-0.01	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	NV	NT	-0.30	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QPSK	HV	NT	0.47	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	LV	NT	0.23	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	NV	NT	-0.43	0.000	-2.5	2.5	PASS
Band 2	1.4	19193	6	#0	QAM16	HV	NT	0.39	0.000	-2.5	2.5	PASS
Band	3	18615	15	#0	QPSK	LV	NT	-1.65	-0.00	-2.5	2.5	PASS

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Band 2	3	18615	15	#0	QPSK	NV	NT	-3.93	-0.00	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QPSK	HV	NT	-3.72	-0.00	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	LV	NT	-2.50	-0.00	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	NV	NT	-1.95	-0.00	-2.5	2.5	PASS
Band 2	3	18615	15	#0	QAM16	HV	NT	-1.49	-0.00	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	LV	NT	-0.30	0.000	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	NV	NT	-2.70	-0.00	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QPSK	HV	NT	-4.82	-0.00	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	LV	NT	-3.38	-0.00	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	NV	NT	-1.17	-0.00	-2.5	2.5	PASS
Band 2	3	18900	15	#0	QAM16	HV	NT	-2.17	-0.00	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	LV	NT	0.96	0.001	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	NV	NT	0.86	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QPSK	HV	NT	1.60	0.001	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QAM16	LV	NT	0.56	0.000	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QAM16	NV	NT	1.33	0.001	-2.5	2.5	PASS
Band 2	3	19185	15	#0	QAM16	HV	NT	0.41	0.000	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	LV	NT	-1.86	-0.00	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	NV	NT	-1.77	-0.00	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QPSK	HV	NT	-1.60	-0.00	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QAM16	LV	NT	-2.12	-0.00	-2.5	2.5	PASS
Band 2	5	18625	25	#0	QAM16	NV	NT	-1.69	-0.00	-2.5	2.5	PASS



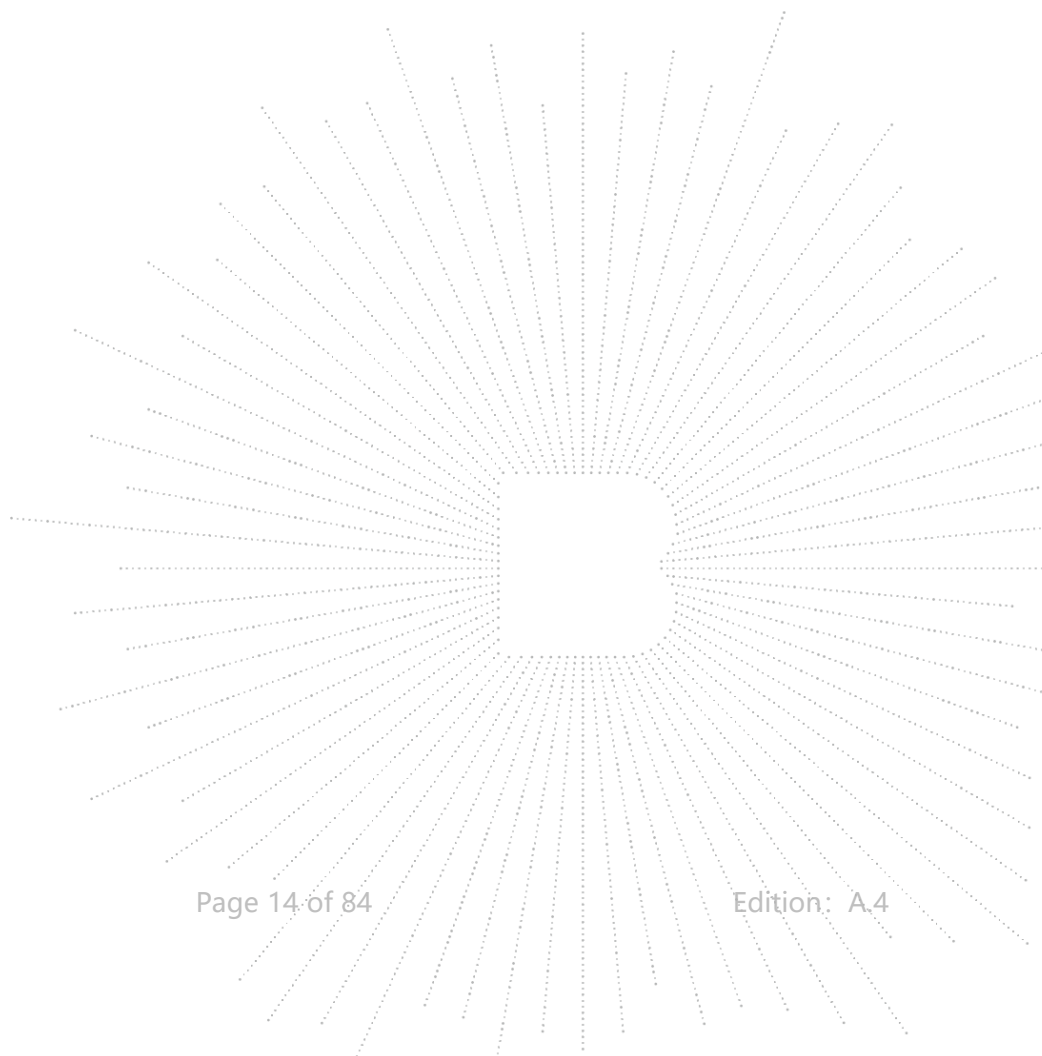
2									1			
Band 2	5	18625	25	#0	QAM16	HV	NT	-1.70	-0.00	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	LV	NT	-3.58	-0.00	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	NV	NT	-2.03	-0.00	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QPSK	HV	NT	-4.05	-0.00	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	LV	NT	-3.56	-0.00	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	NV	NT	-2.95	-0.00	-2.5	2.5	PASS
Band 2	5	18900	25	#0	QAM16	HV	NT	-2.80	-0.00	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	LV	NT	1.57	0.001	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	NV	NT	-0.04	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QPSK	HV	NT	0.60	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	LV	NT	-0.19	0.000	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	NV	NT	1.26	0.001	-2.5	2.5	PASS
Band 2	5	19175	25	#0	QAM16	HV	NT	0.99	0.001	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	LV	NT	-2.16	-0.00	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	NV	NT	-2.15	-0.00	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QPSK	HV	NT	-2.19	-0.00	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	LV	NT	-2.93	-0.00	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	NV	NT	-3.29	-0.00	-2.5	2.5	PASS
Band 2	10	18650	50	#0	QAM16	HV	NT	-4.21	-0.00	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	LV	NT	-2.53	-0.00	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	NV	NT	-3.66	-0.00	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QPSK	HV	NT	-3.25	-0.00	-2.5	2.5	PASS

2									2			
Band 2	10	18900	50	#0	QAM16	LV	NT	-2.80	-0.001	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	NV	NT	-2.78	-0.001	-2.5	2.5	PASS
Band 2	10	18900	50	#0	QAM16	HV	NT	-3.08	-0.002	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	LV	NT	1.29	0.001	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	NV	NT	0.14	0.000	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QPSK	HV	NT	0.99	0.001	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	LV	NT	1.79	0.001	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	NV	NT	1.06	0.001	-2.5	2.5	PASS
Band 2	10	19150	50	#0	QAM16	HV	NT	1.89	0.001	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	LV	NT	-3.62	-0.002	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	NV	NT	-3.50	-0.002	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QPSK	HV	NT	-3.46	-0.002	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	LV	NT	-3.63	-0.002	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	NV	NT	-3.33	-0.002	-2.5	2.5	PASS
Band 2	15	18675	75	#0	QAM16	HV	NT	-3.16	-0.002	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	LV	NT	-4.81	-0.003	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	NV	NT	-4.62	-0.002	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QPSK	HV	NT	-3.50	-0.002	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QAM16	LV	NT	-2.92	-0.002	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QAM16	NV	NT	-3.85	-0.002	-2.5	2.5	PASS
Band 2	15	18900	75	#0	QAM16	HV	NT	-3.33	-0.002	-2.5	2.5	PASS
Band	15	19125	75	#0	QPSK	LV	NT	-3.29	-0.00	-2.5	2.5	PASS



2									2			
Band 2	15	19125	75	#0	QPSK	NV	NT	-3.93	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QPSK	HV	NT	-3.33	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	LV	NT	-3.93	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	NV	NT	-4.13	-0.002	-2.5	2.5	PASS
Band 2	15	19125	75	#0	QAM16	HV	NT	-2.89	-0.002	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	LV	NT	1.79	0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	NV	NT	1.53	0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QPSK	HV	NT	0.53	0.000	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	LV	NT	1.33	0.001	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	NV	NT	0.80	0.000	-2.5	2.5	PASS
Band 2	20	18700	100	#0	QAM16	HV	NT	0.10	0.000	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	LV	NT	-3.62	-0.002	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	NV	NT	-3.29	-0.002	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QPSK	HV	NT	-2.63	-0.001	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	LV	NT	-2.42	-0.001	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	NV	NT	-2.66	-0.001	-2.5	2.5	PASS
Band 2	20	18900	100	#0	QAM16	HV	NT	-3.15	-0.002	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	LV	NT	-2.09	-0.001	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	NV	NT	-3.29	-0.002	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QPSK	HV	NT	-4.69	-0.002	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	LV	NT	-3.35	-0.002	-2.5	2.5	PASS
Band 2	20	19100	100	#0	QAM16	NV	NT	-2.09	-0.00	-2.5	2.5	PASS

2									1			
Band	20	19100	100	#0	QAM16	HV	NT	-3.38	-0.00	-2.5	2.5	PASS
2									2			

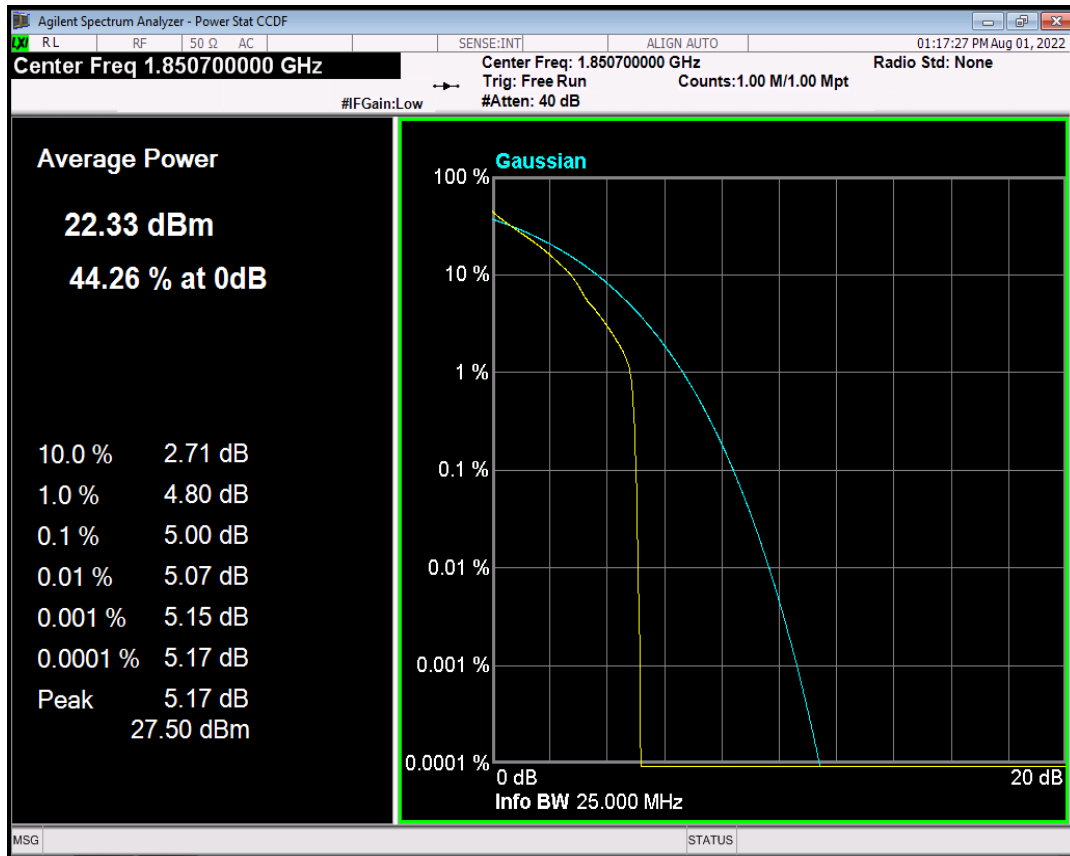


Appendix3. Peak-to-Average Ratio

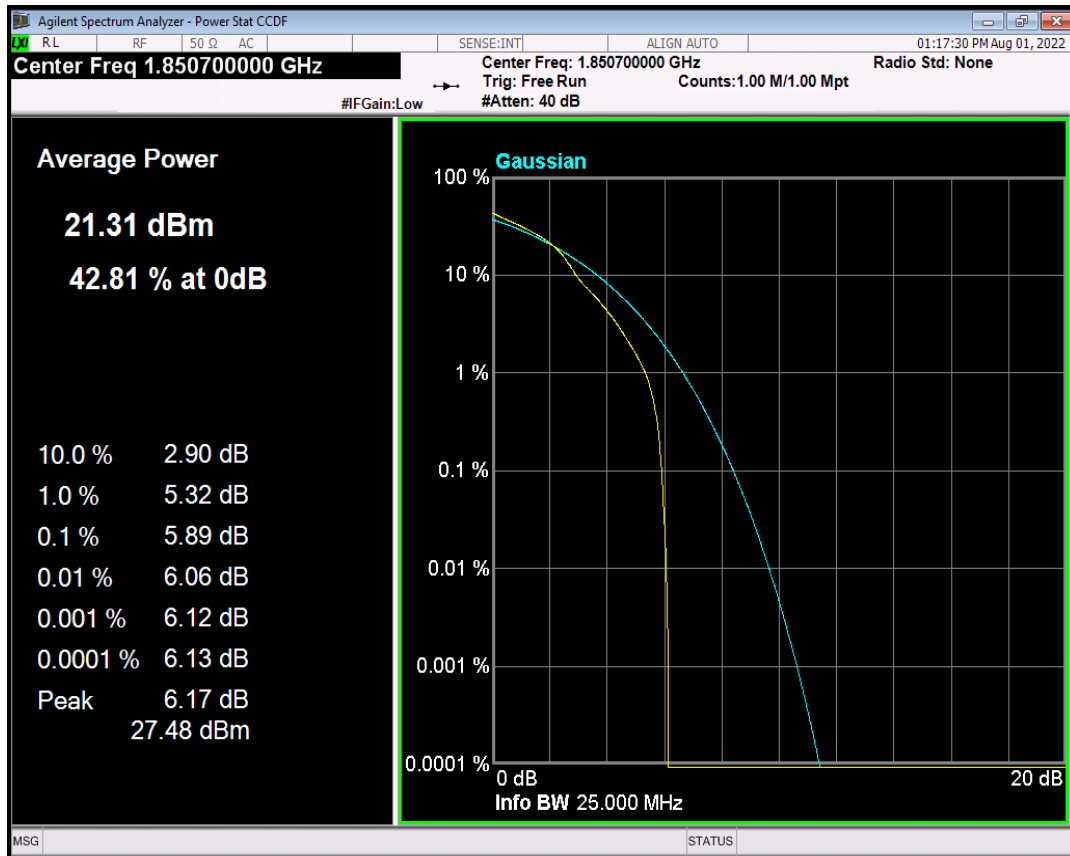
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Result (dB)	high Limit (dB)	Verdict
Band2	1.4	18607	1	#0	QPSK	5.00	13	PASS
Band2	1.4	18607	1	#0	QAM16	5.89	13	PASS
Band2	1.4	18900	1	#0	QPSK	5.14	13	PASS
Band2	1.4	18900	1	#0	QAM16	6.05	13	PASS
Band2	1.4	19193	1	#0	QPSK	4.54	13	PASS
Band2	1.4	19193	1	#0	QAM16	5.43	13	PASS
Band2	3	18615	1	#0	QPSK	4.98	13	PASS
Band2	3	18615	1	#0	QAM16	5.95	13	PASS
Band2	3	18900	1	#0	QPSK	5.16	13	PASS
Band2	3	18900	1	#0	QAM16	6.05	13	PASS
Band2	3	19185	1	#0	QPSK	4.73	13	PASS
Band2	3	19185	1	#0	QAM16	5.61	13	PASS
Band2	5	18625	1	#0	QPSK	4.92	13	PASS
Band2	5	18625	1	#0	QAM16	5.92	13	PASS
Band2	5	18900	1	#0	QPSK	5.11	13	PASS
Band2	5	18900	1	#0	QAM16	6.15	13	PASS
Band2	5	19175	1	#0	QPSK	5.07	13	PASS
Band2	5	19175	1	#0	QAM16	6.00	13	PASS
Band2	10	18650	1	#0	QPSK	4.98	13	PASS
Band2	10	18650	1	#0	QAM16	5.91	13	PASS
Band2	10	18900	1	#0	QPSK	5.15	13	PASS
Band2	10	18900	1	#0	QAM16	6.10	13	PASS
Band2	10	19150	1	#0	QPSK	5.08	13	PASS
Band2	10	19150	1	#0	QAM16	6.01	13	PASS
Band2	15	18675	1	#0	QPSK	4.97	13	PASS
Band2	15	18675	1	#0	QAM16	5.81	13	PASS
Band2	15	18900	1	#0	QPSK	5.14	13	PASS
Band2	15	18900	1	#0	QAM16	6.09	13	PASS
Band2	15	19125	1	#0	QPSK	4.84	13	PASS
Band2	15	19125	1	#0	QAM16	5.71	13	PASS
Band2	20	18700	1	#0	QPSK	4.90	13	PASS
Band2	20	18700	1	#0	QAM16	5.82	13	PASS
Band2	20	18900	1	#0	QPSK	5.06	13	PASS
Band2	20	18900	1	#0	QAM16	6.04	13	PASS
Band2	20	19100	1	#0	QPSK	4.88	13	PASS
Band2	20	19100	1	#0	QAM16	5.74	13	PASS



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

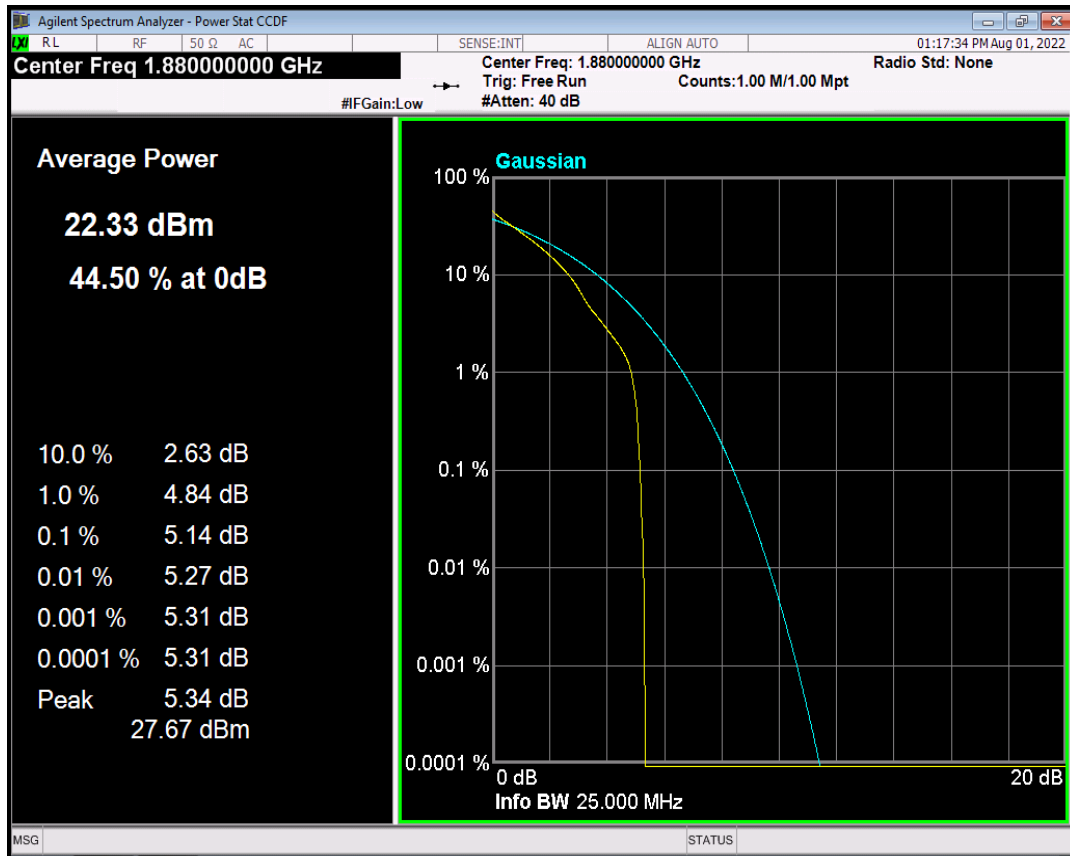


Band2 QAM16 BW=1.4MHz Channel=18607 RB Size=1 Position=#0

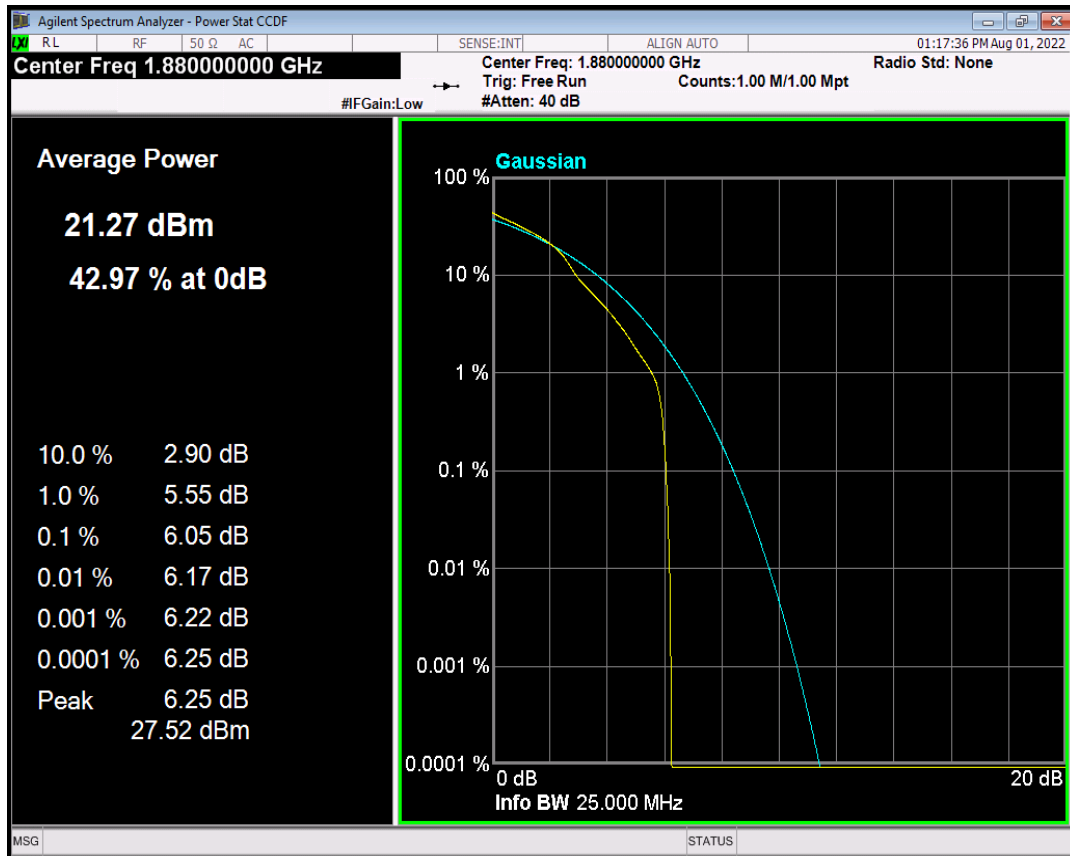




Band2 QPSK BW=1.4MHz Channel=18900 RB Size=1 Position=#0

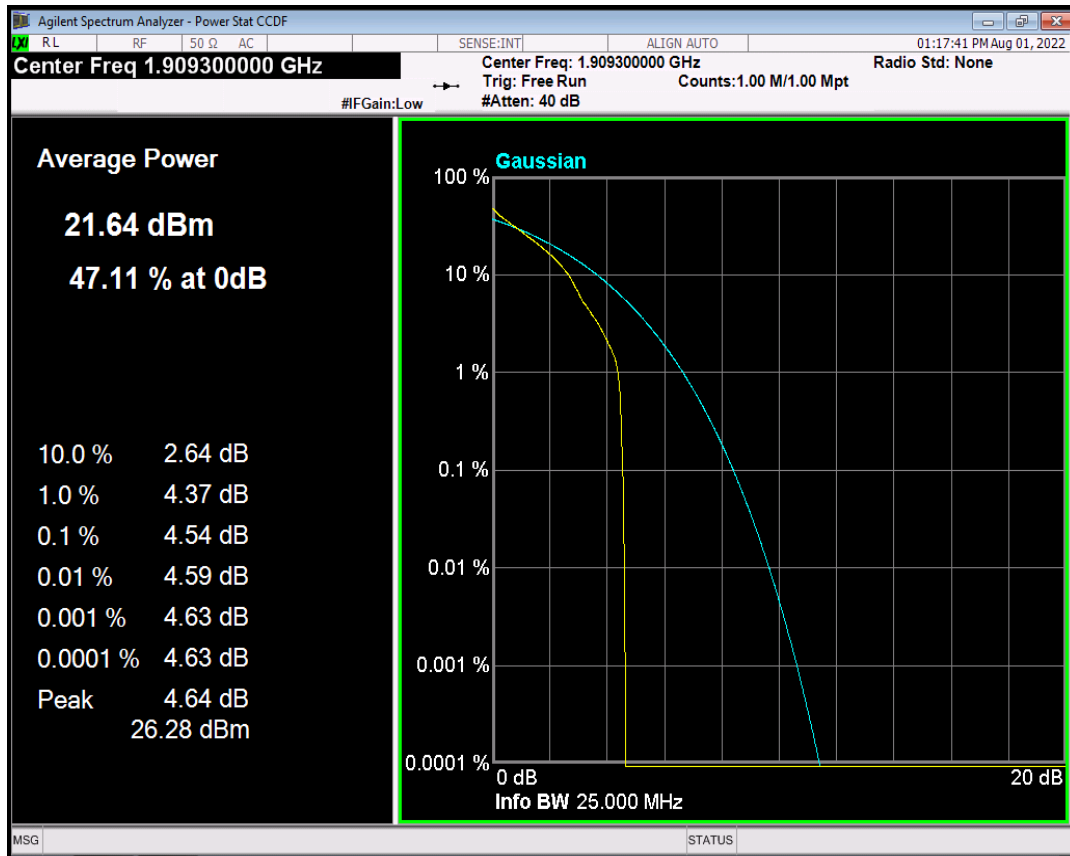


Band2 QAM16 BW=1.4MHz Channel=18900 RB Size=1 Position=#0

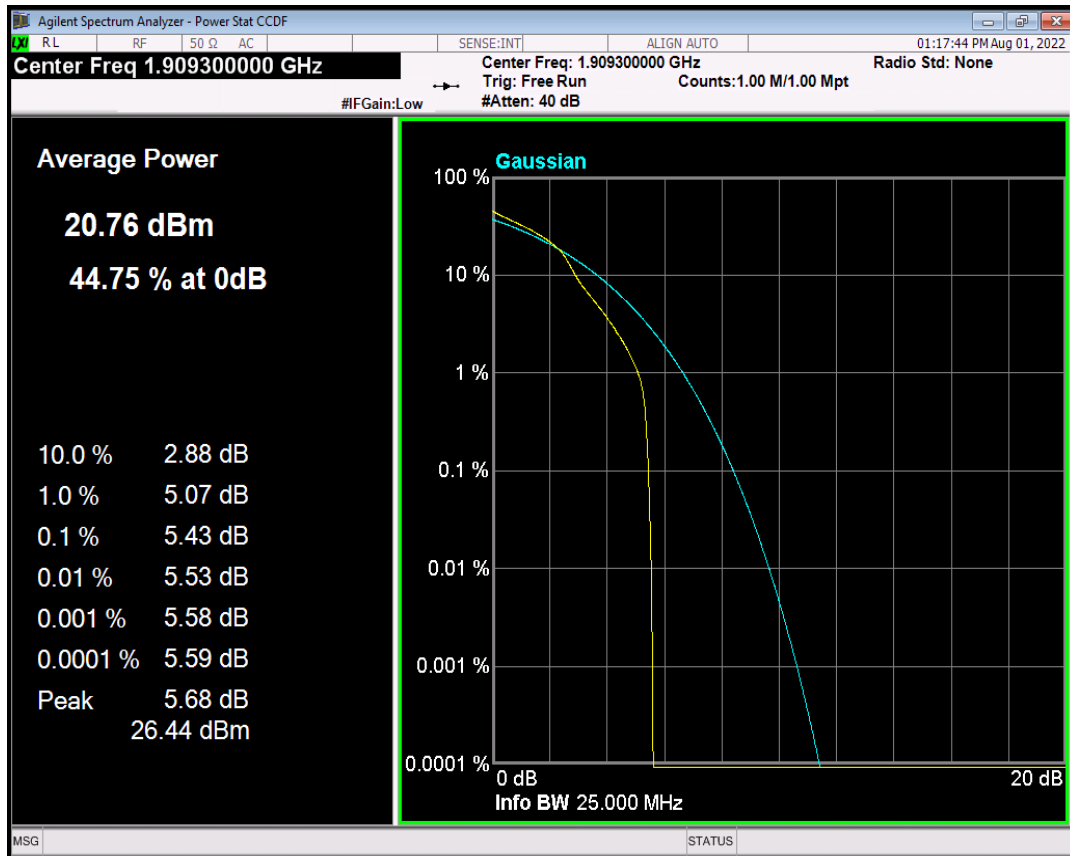




Band2 QPSK BW=1.4MHz Channel=19193 RB Size=1 Position=#0

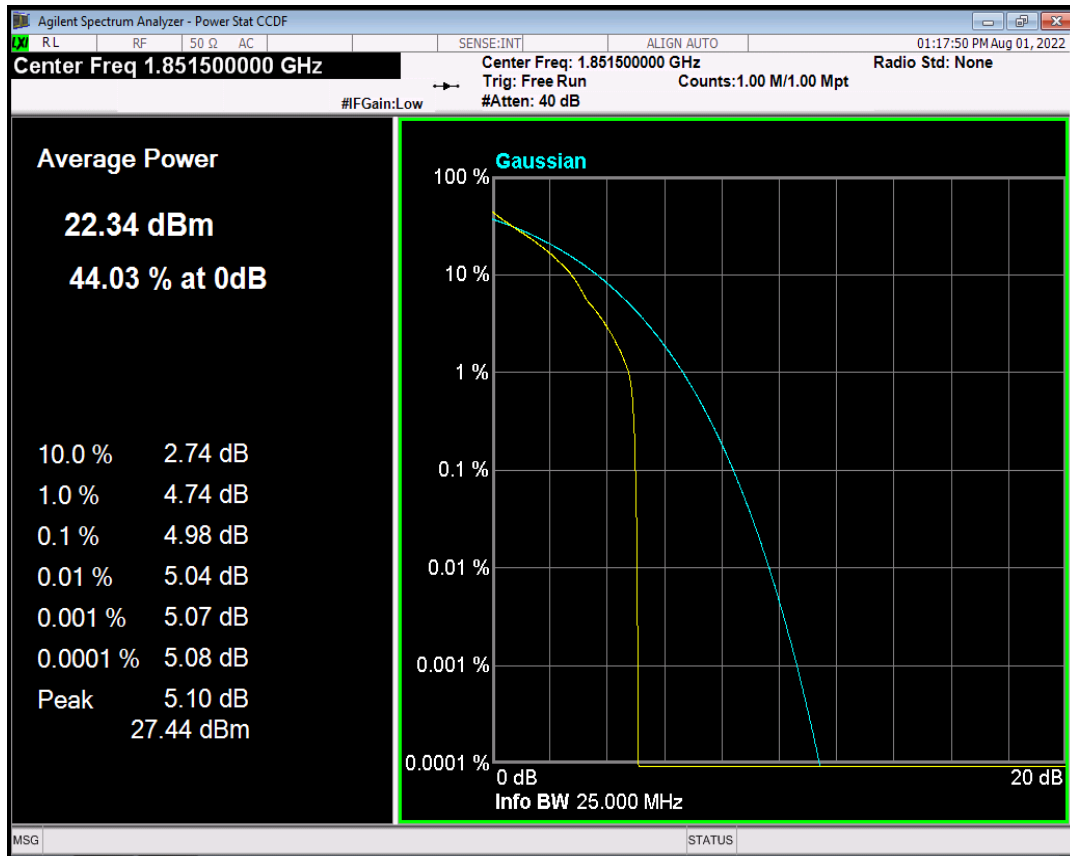


Band2 QAM16 BW=1.4MHz Channel=19193 RB Size=1 Position=#0

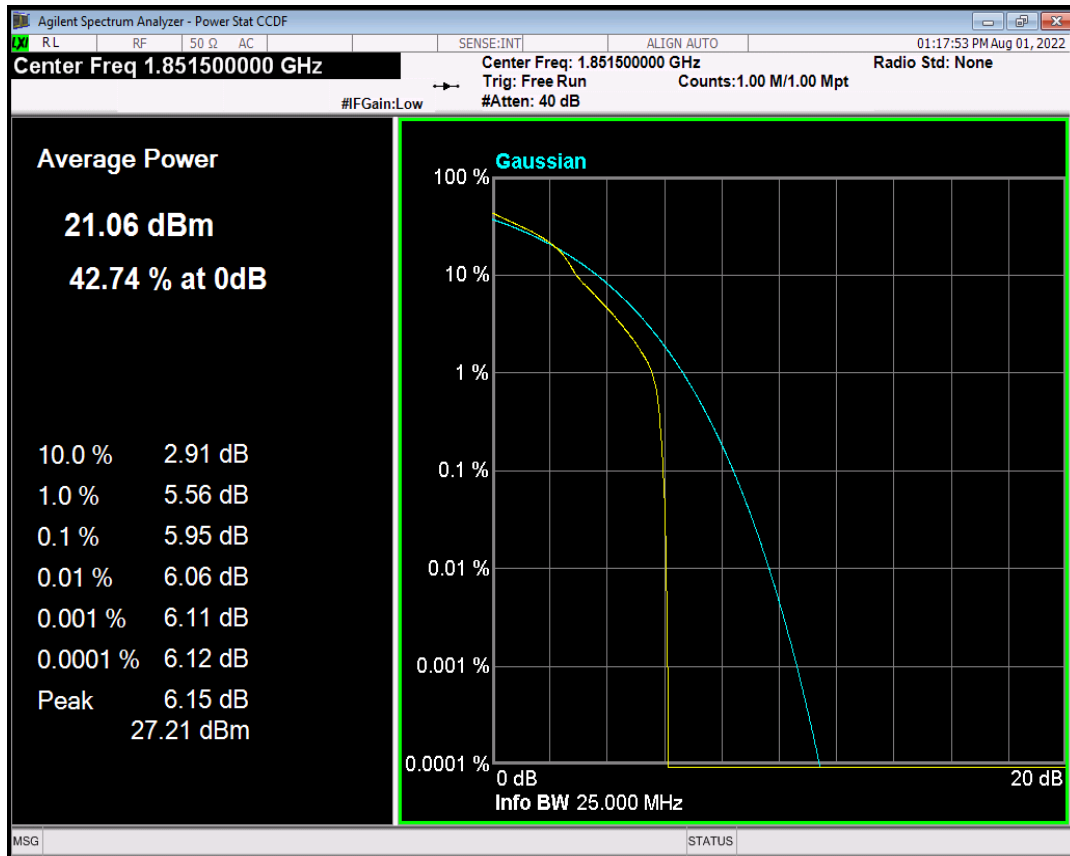




Band2 QPSK BW=3MHz Channel=18615 RB Size=1 Position=#0

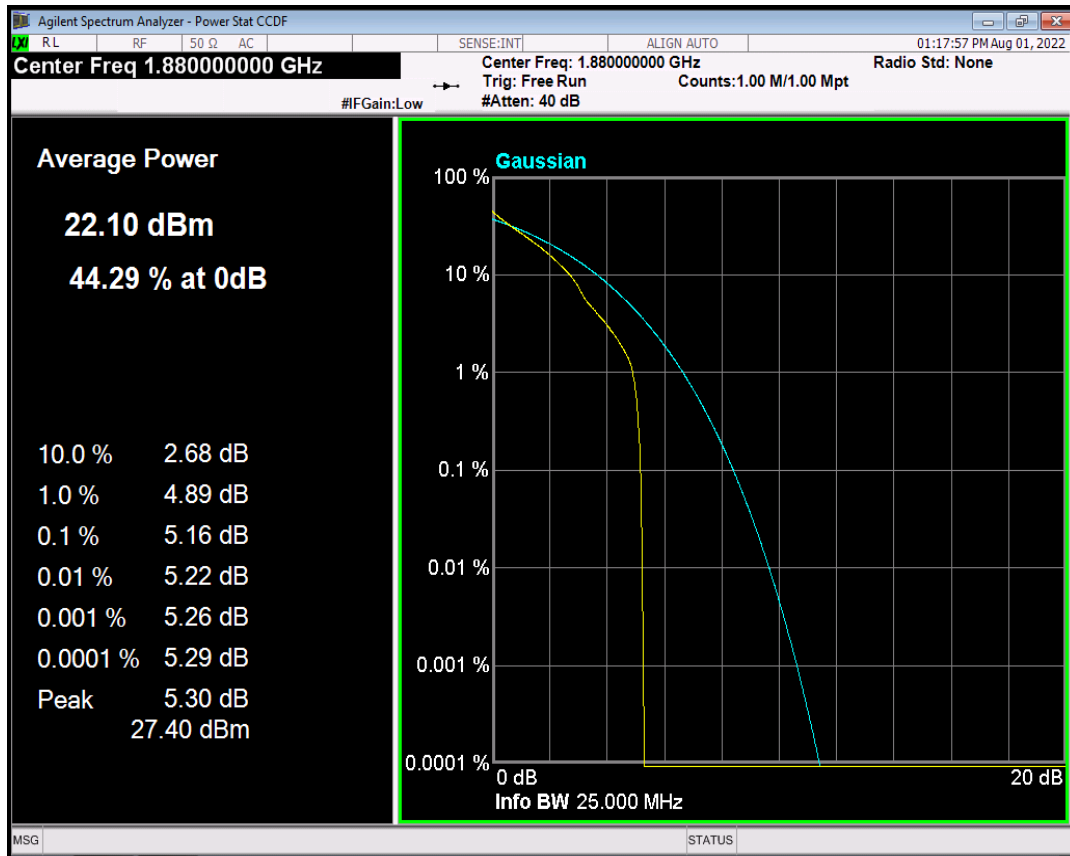


Band2 QAM16 BW=3MHz Channel=18615 RB Size=1 Position=#0

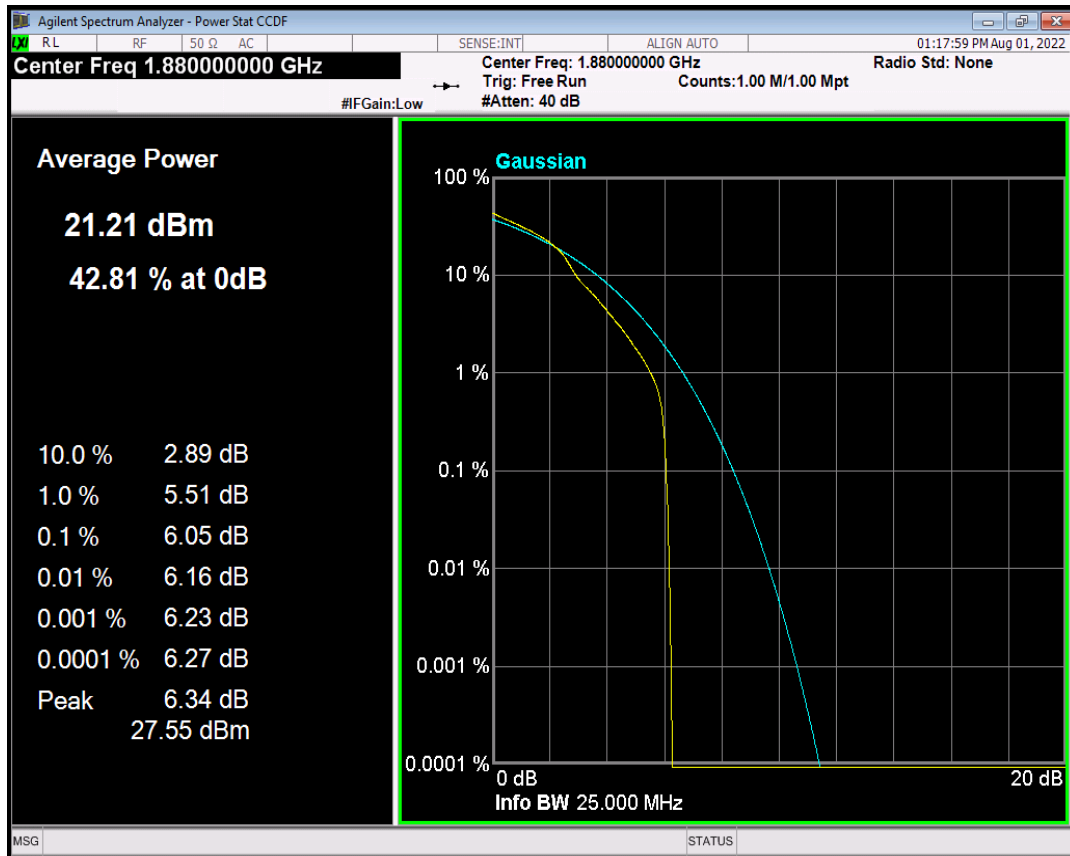




Band2 QPSK BW=3MHz Channel=18900 RB Size=1 Position=#0

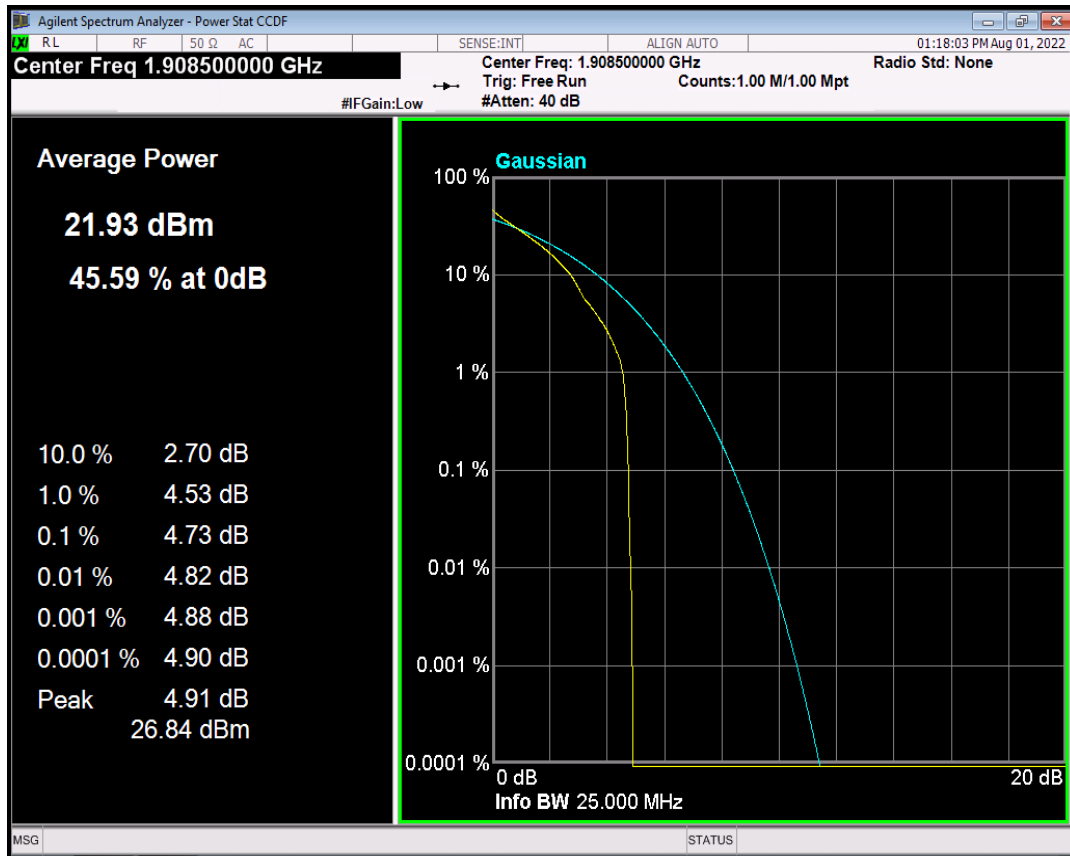


Band2 QAM16 BW=3MHz Channel=18900 RB Size=1 Position=#0

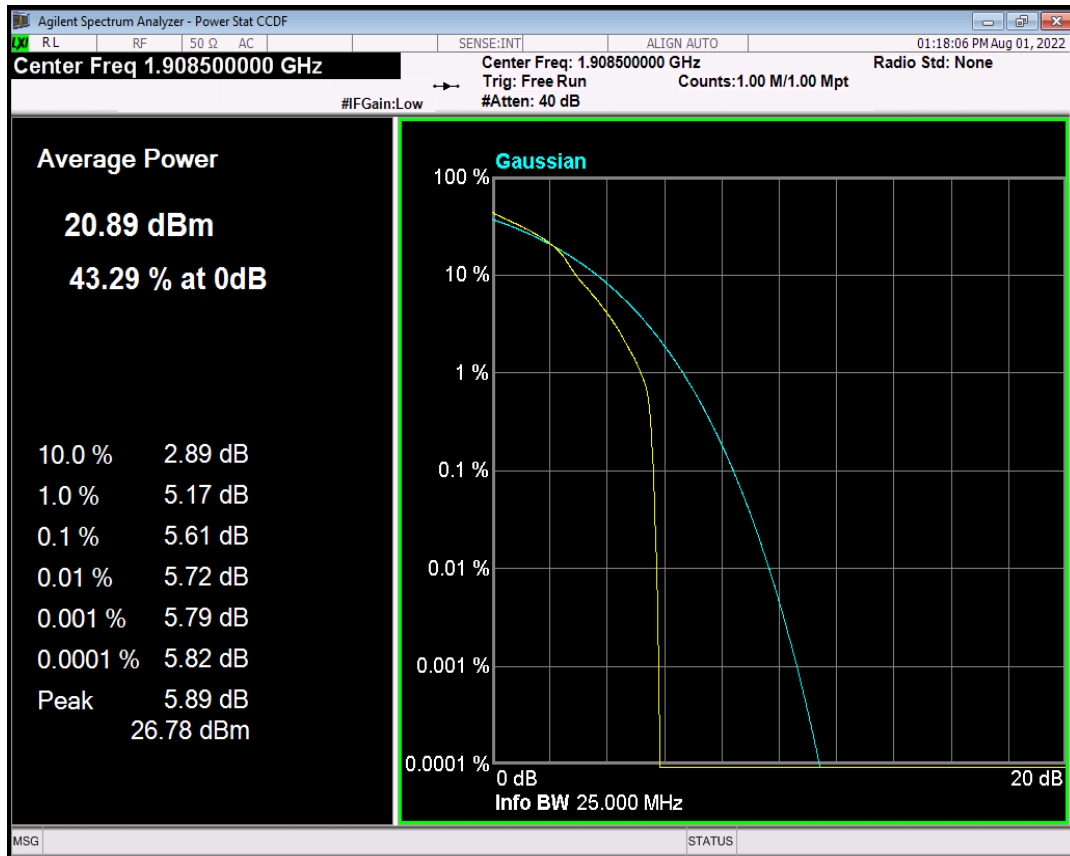




Band2 QPSK BW=3MHz Channel=19185 RB Size=1 Position=#0

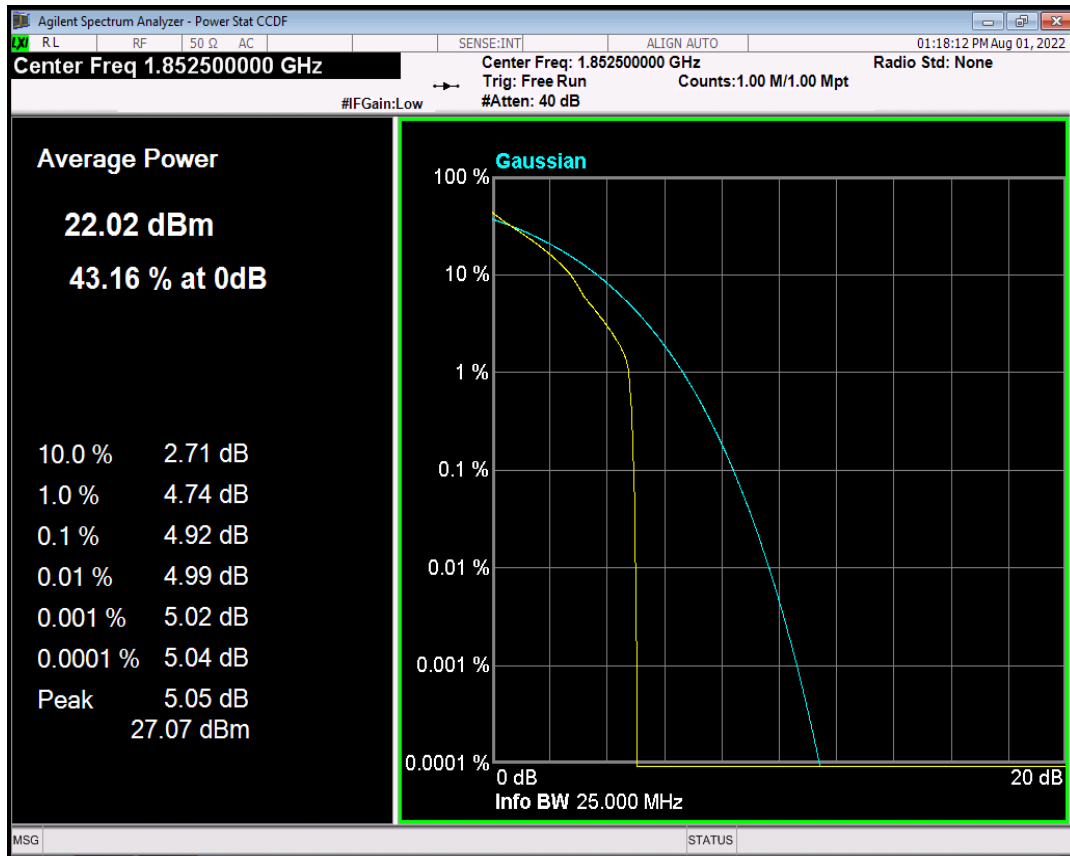


Band2 QAM16 BW=3MHz Channel=19185 RB Size=1 Position=#0

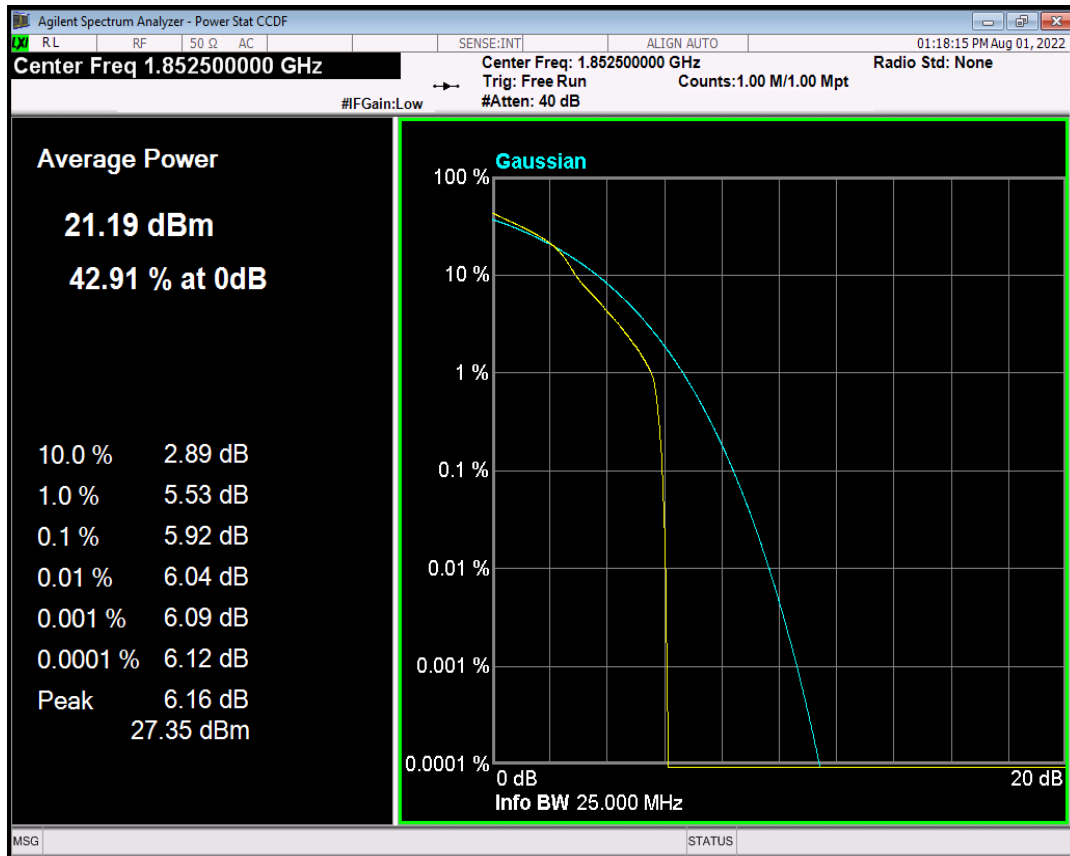




Band2 QPSK BW=5MHz Channel=18625 RB Size=1 Position=#0

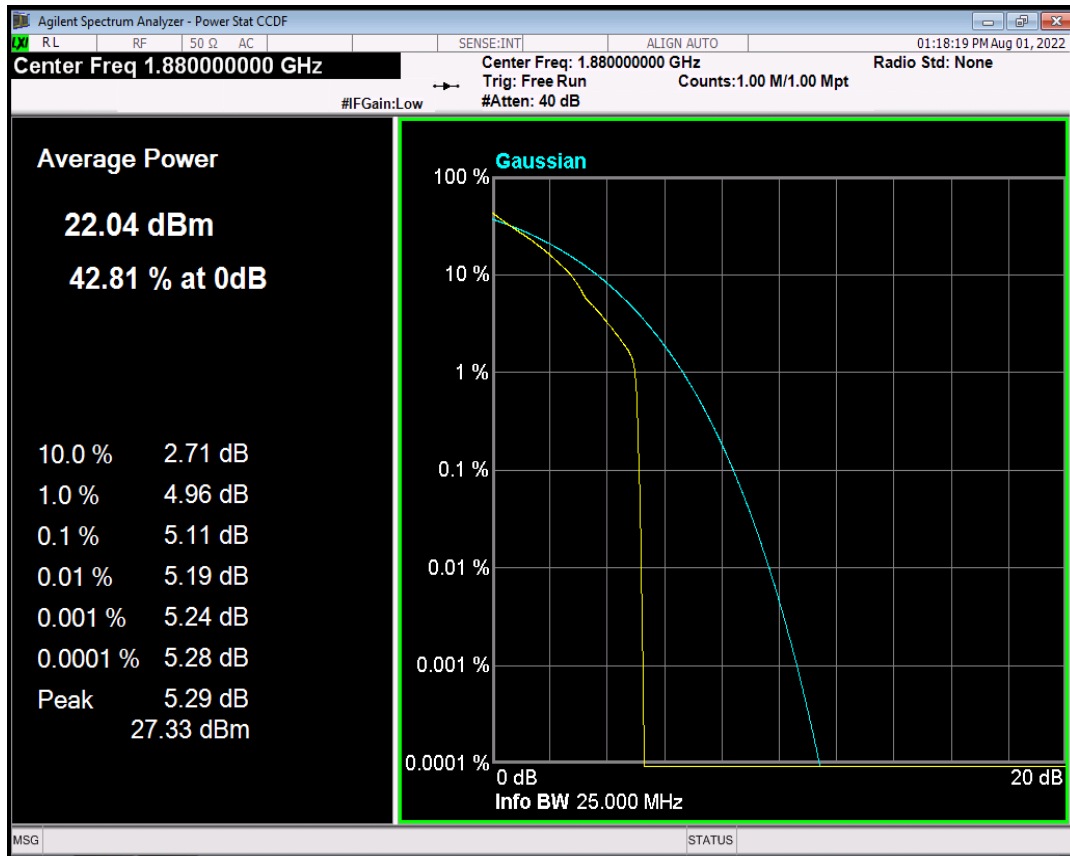


Band2 QAM16 BW=5MHz Channel=18625 RB Size=1 Position=#0

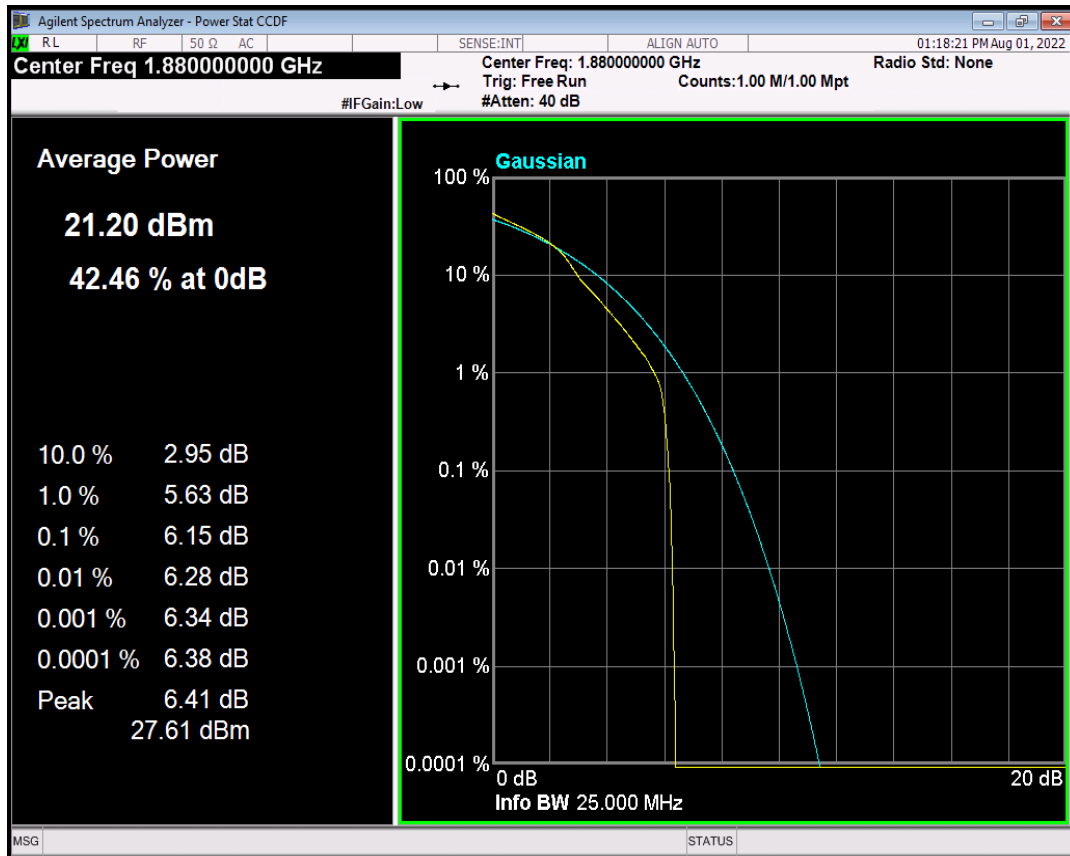




Band2 QPSK BW=5MHz Channel=18900 RB Size=1 Position=#0

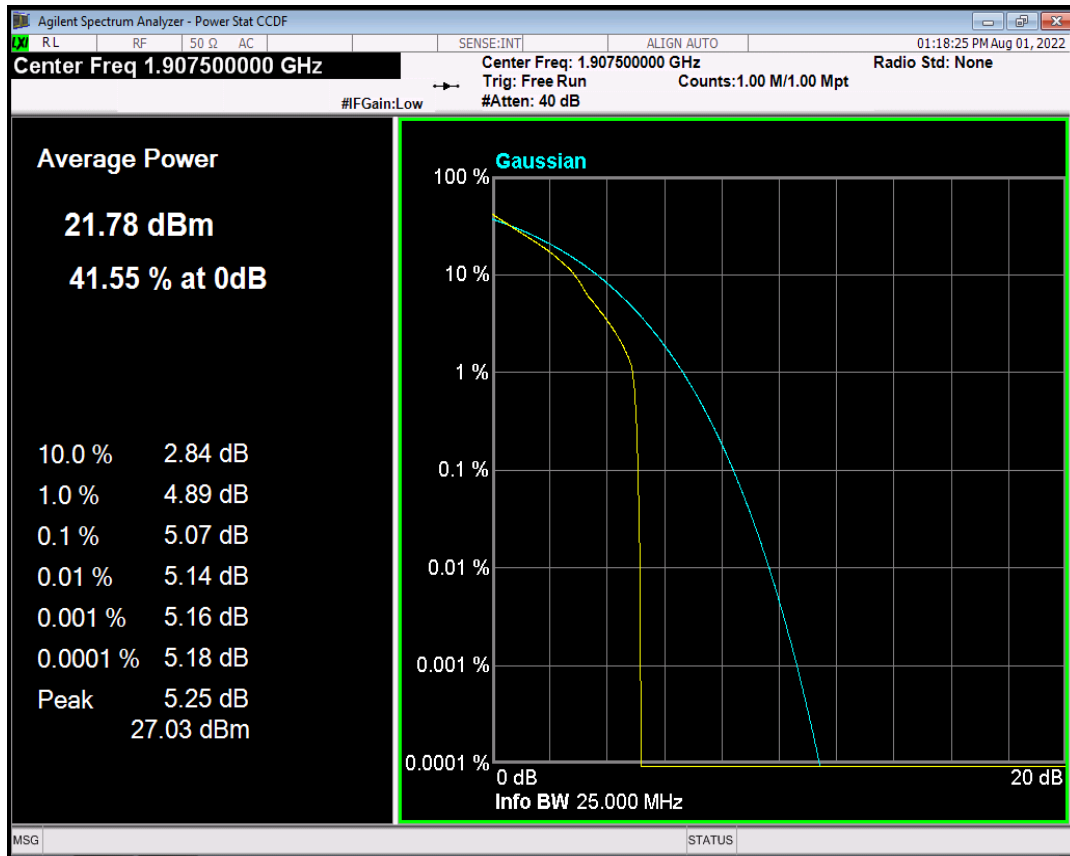


Band2 QAM16 BW=5MHz Channel=18900 RB Size=1 Position=#0

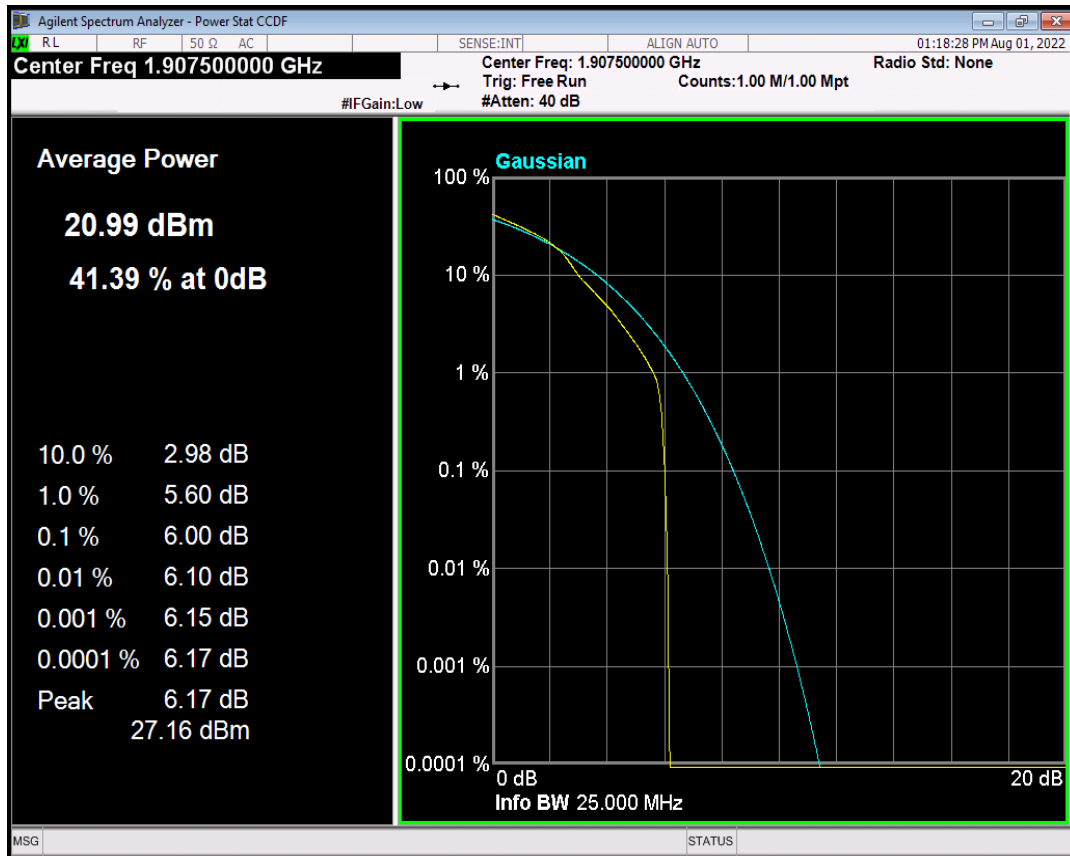




Band2 QPSK BW=5MHz Channel=19175 RB Size=1 Position=#0

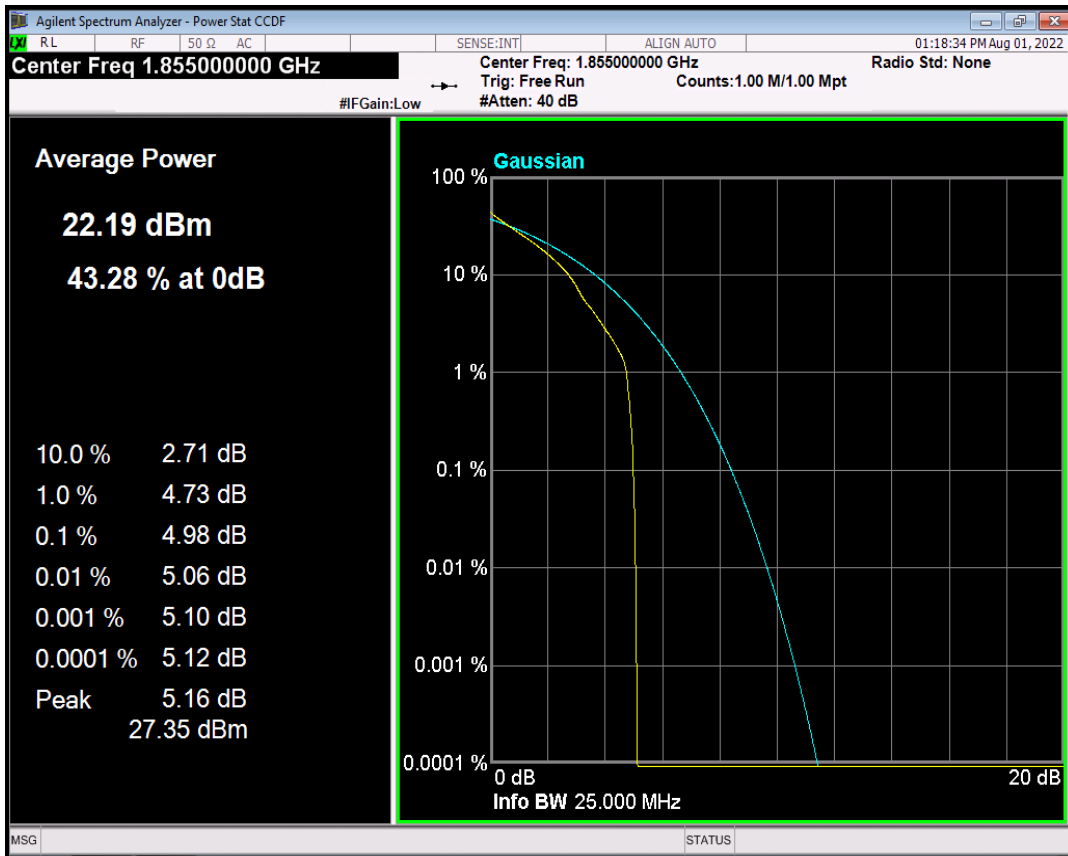


Band2 QAM16 BW=5MHz Channel=19175 RB Size=1 Position=#0

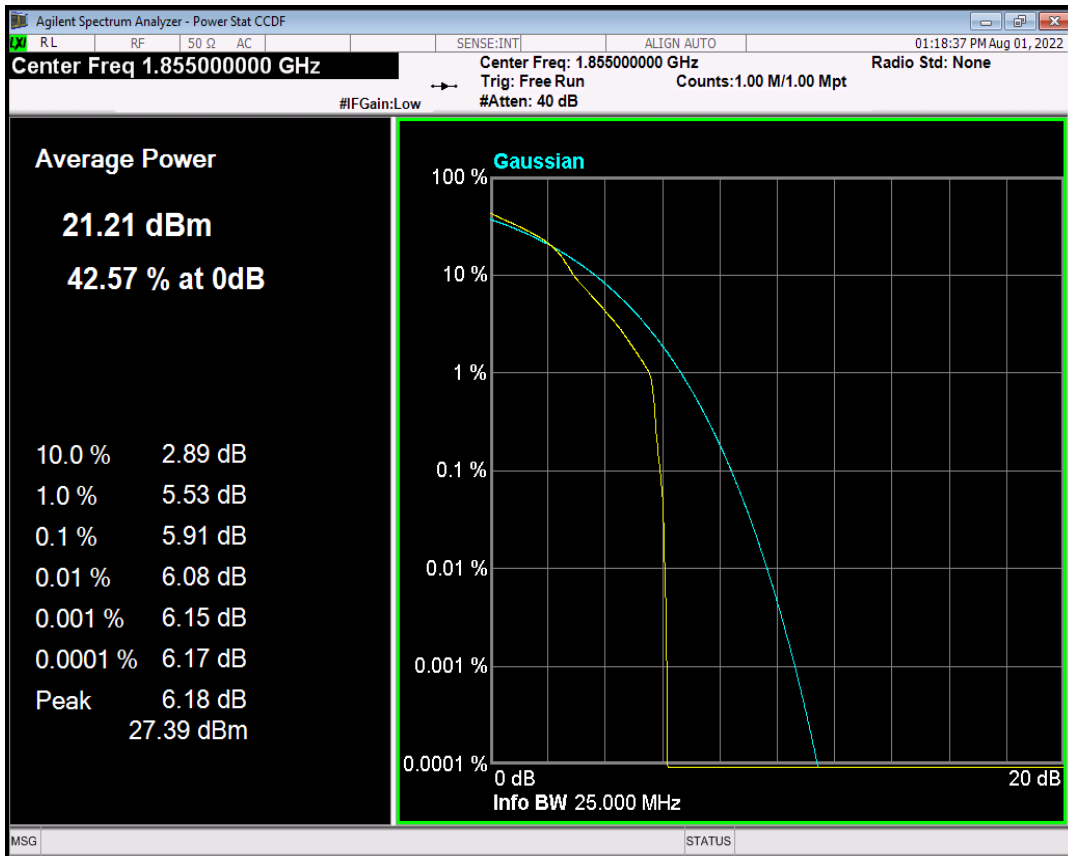




Band2 QPSK BW=10MHz Channel=18650 RB Size=1 Position=#0

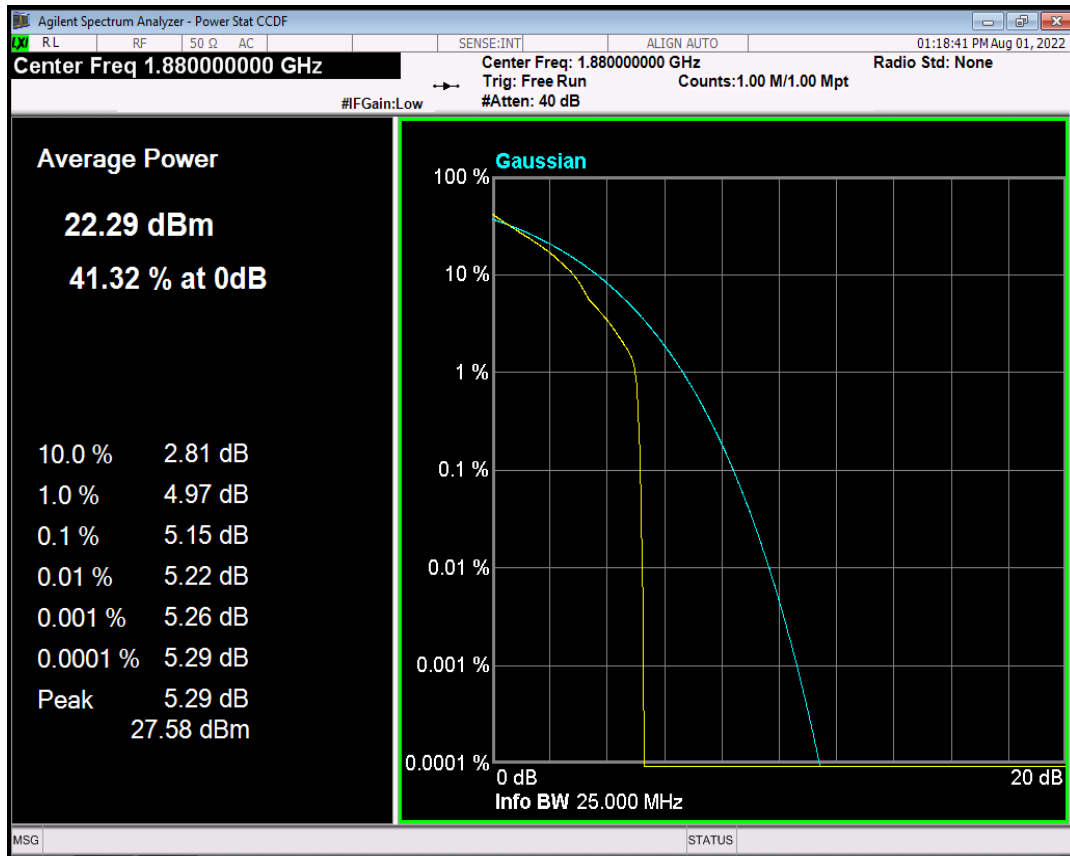


Band2 QAM16 BW=10MHz Channel=18650 RB Size=1 Position=#0

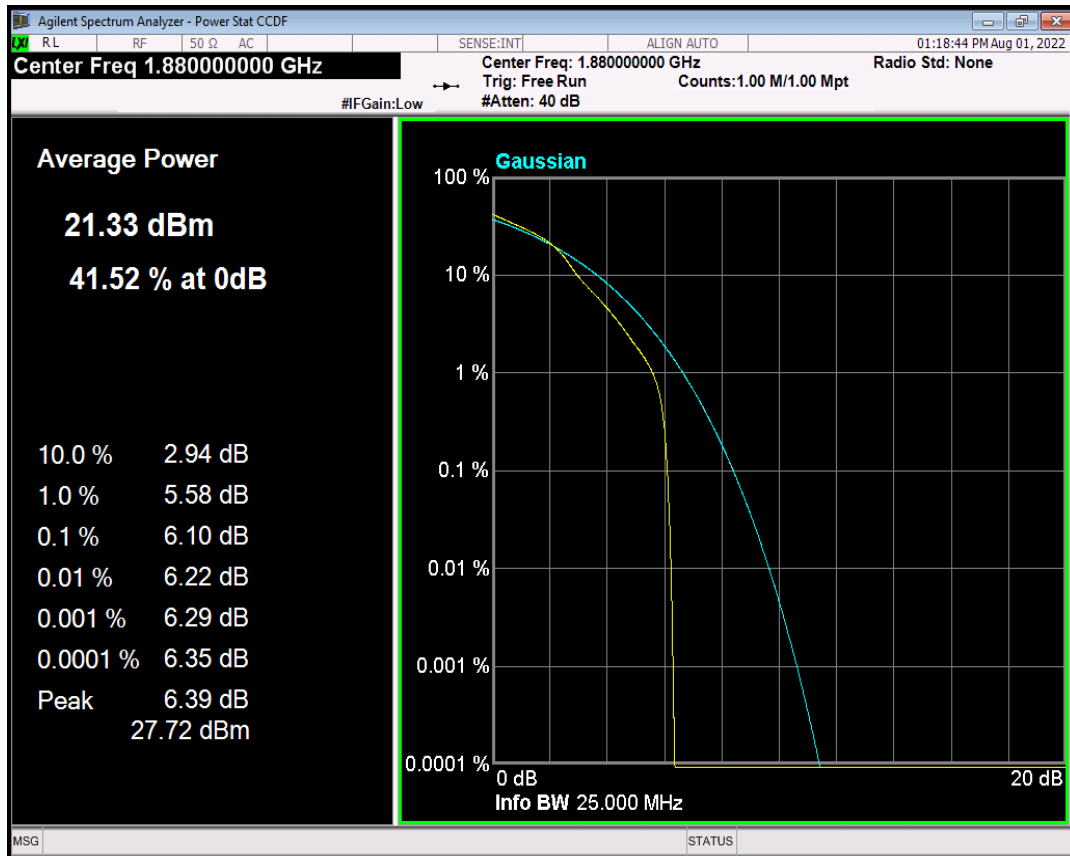




Band2 QPSK BW=10MHz Channel=18900 RB Size=1 Position=#0

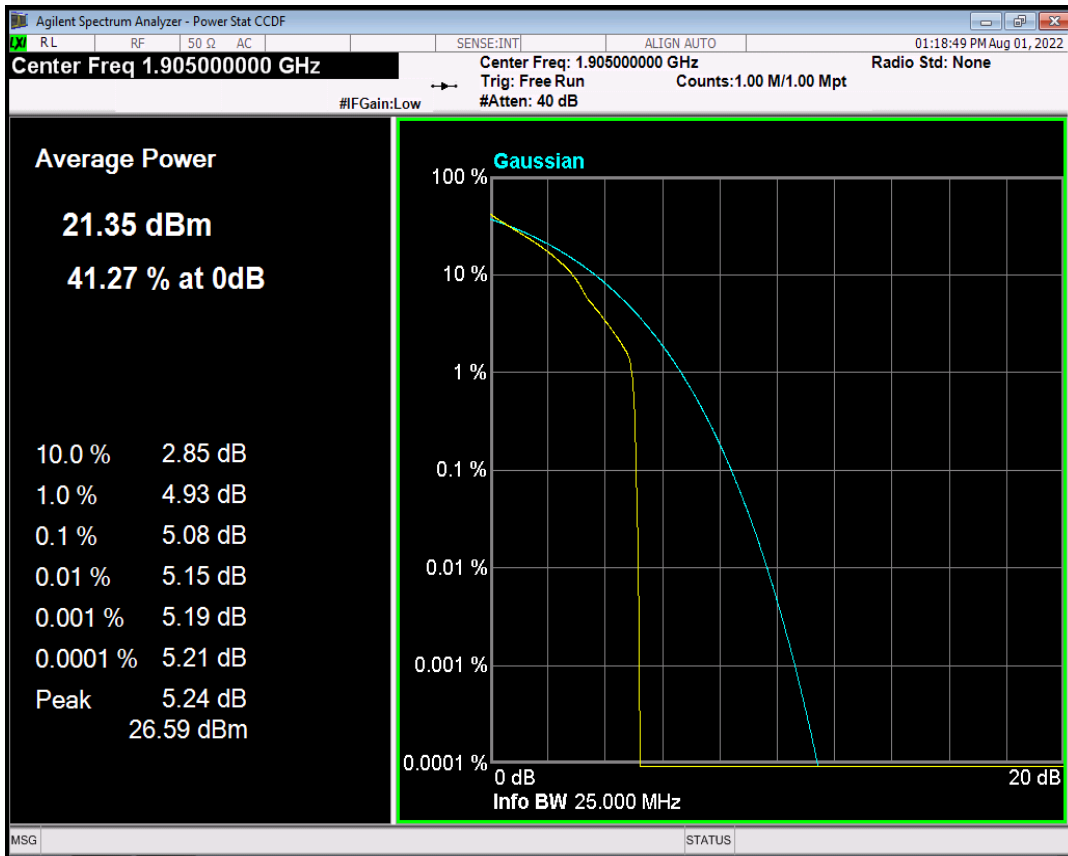


Band2 QAM16 BW=10MHz Channel=18900 RB Size=1 Position=#0

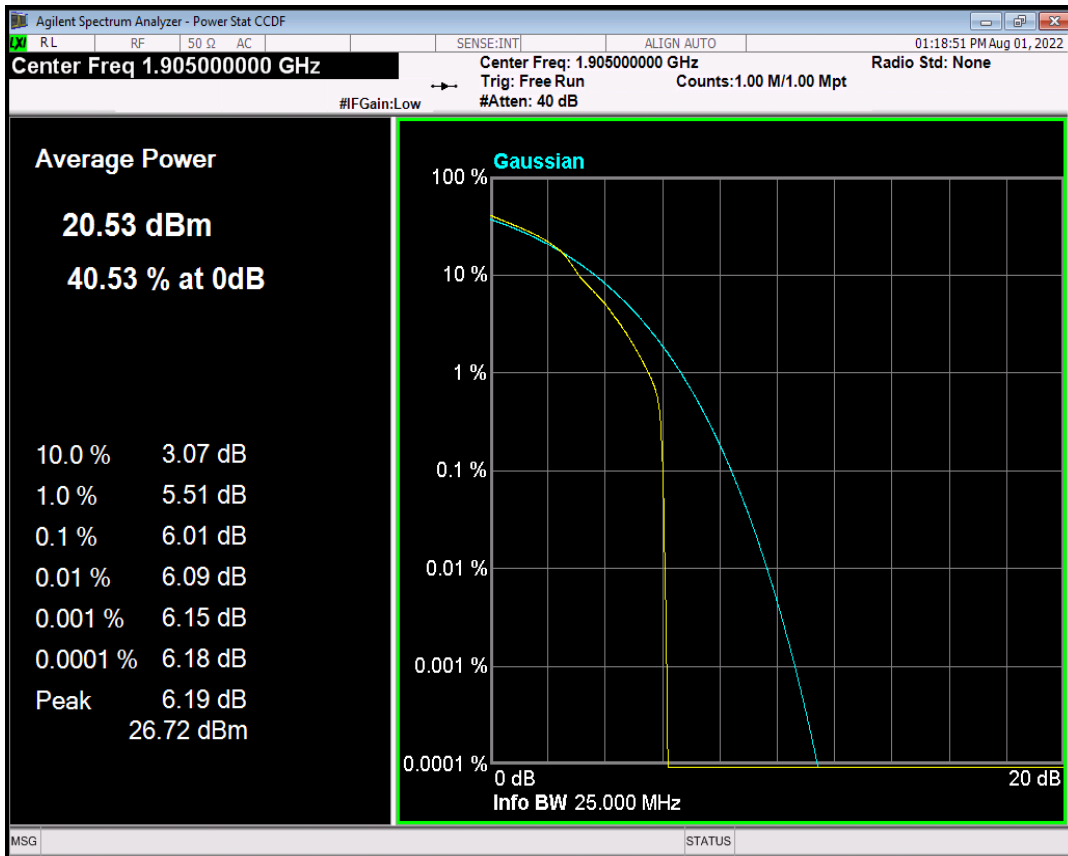




Band2 QPSK BW=10MHz Channel=19150 RB Size=1 Position=#0

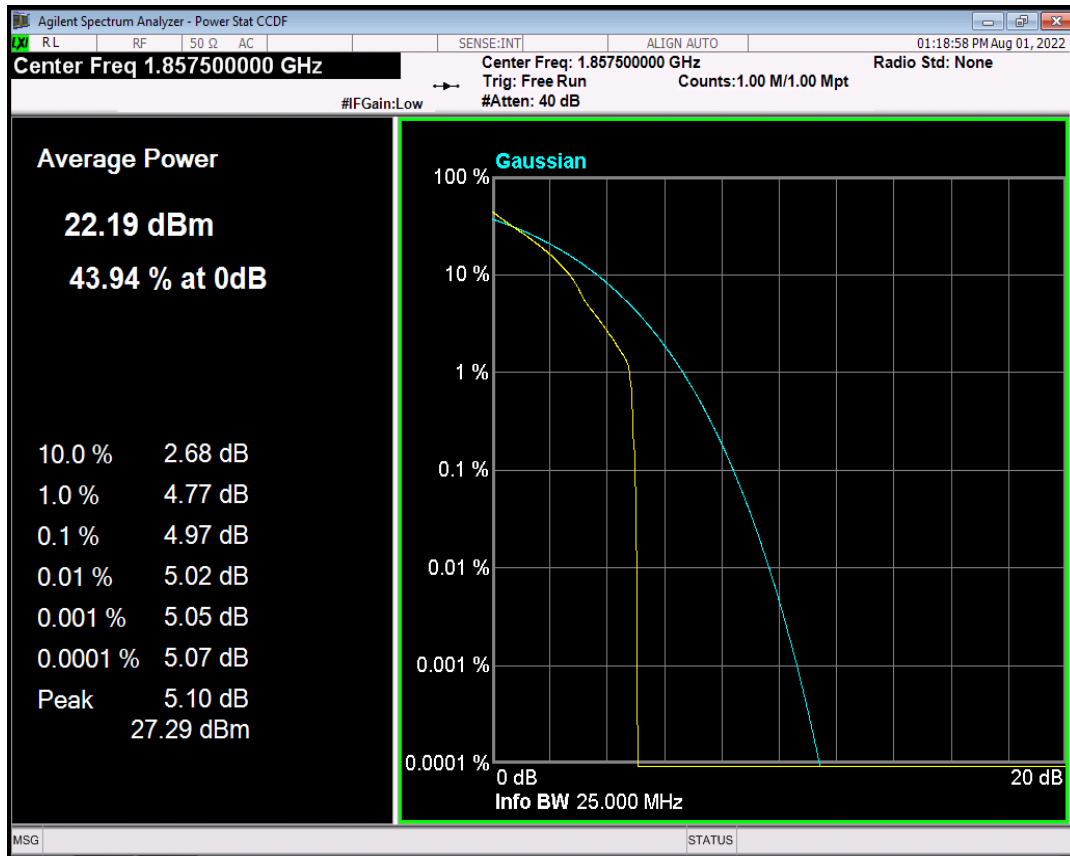


Band2 QAM16 BW=10MHz Channel=19150 RB Size=1 Position=#0

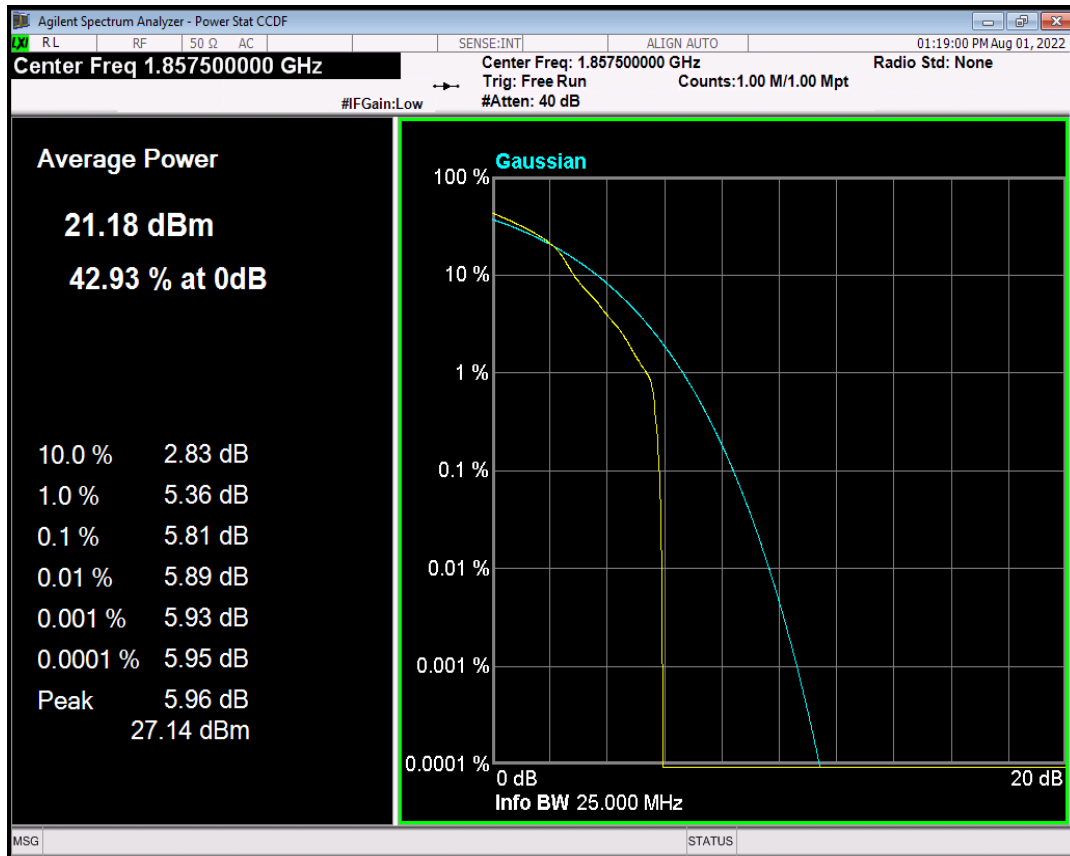




Band2 QPSK BW=15MHz Channel=18675 RB Size=1 Position=#0

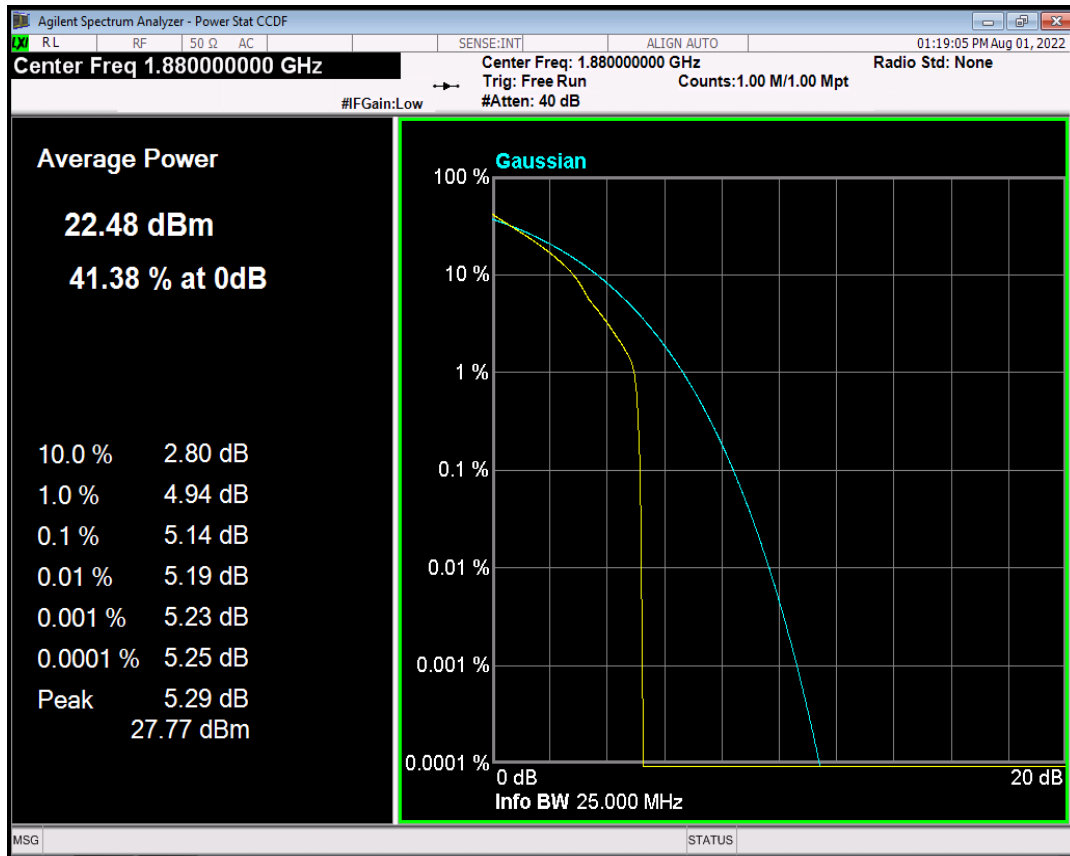


Band2 QAM16 BW=15MHz Channel=18675 RB Size=1 Position=#0

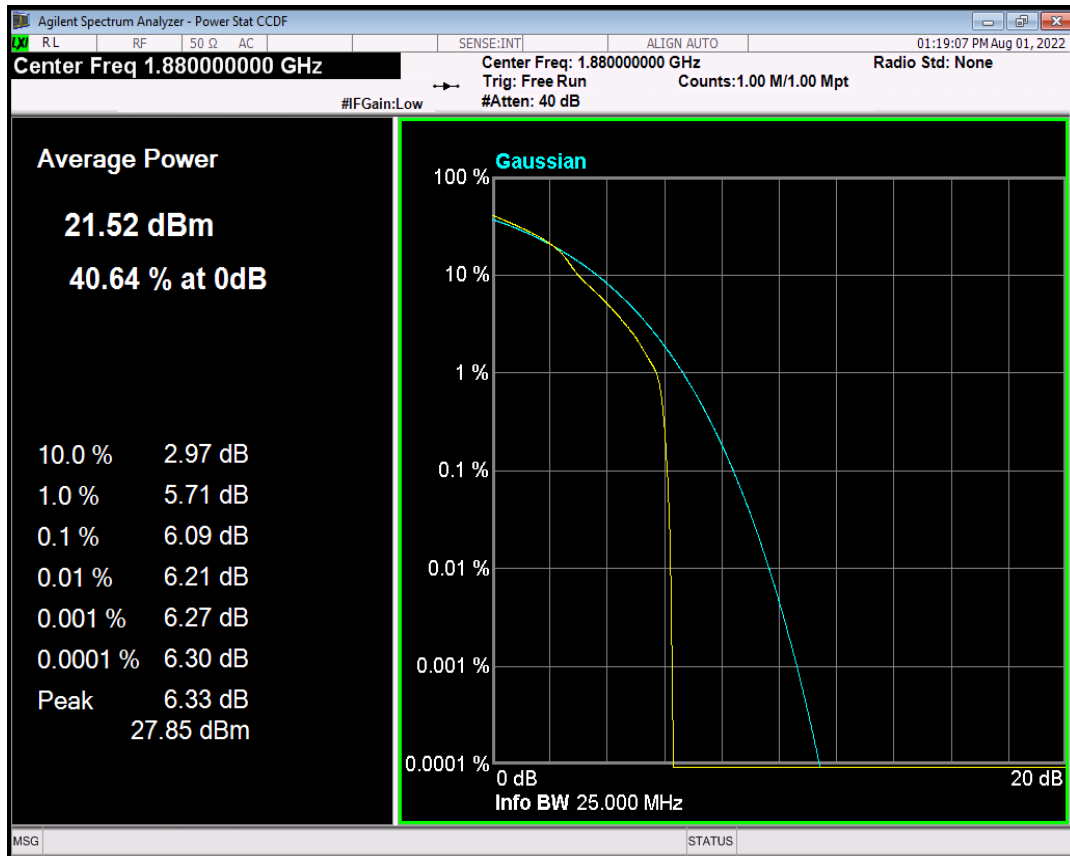




Band2 QPSK BW=15MHz Channel=18900 RB Size=1 Position=#0

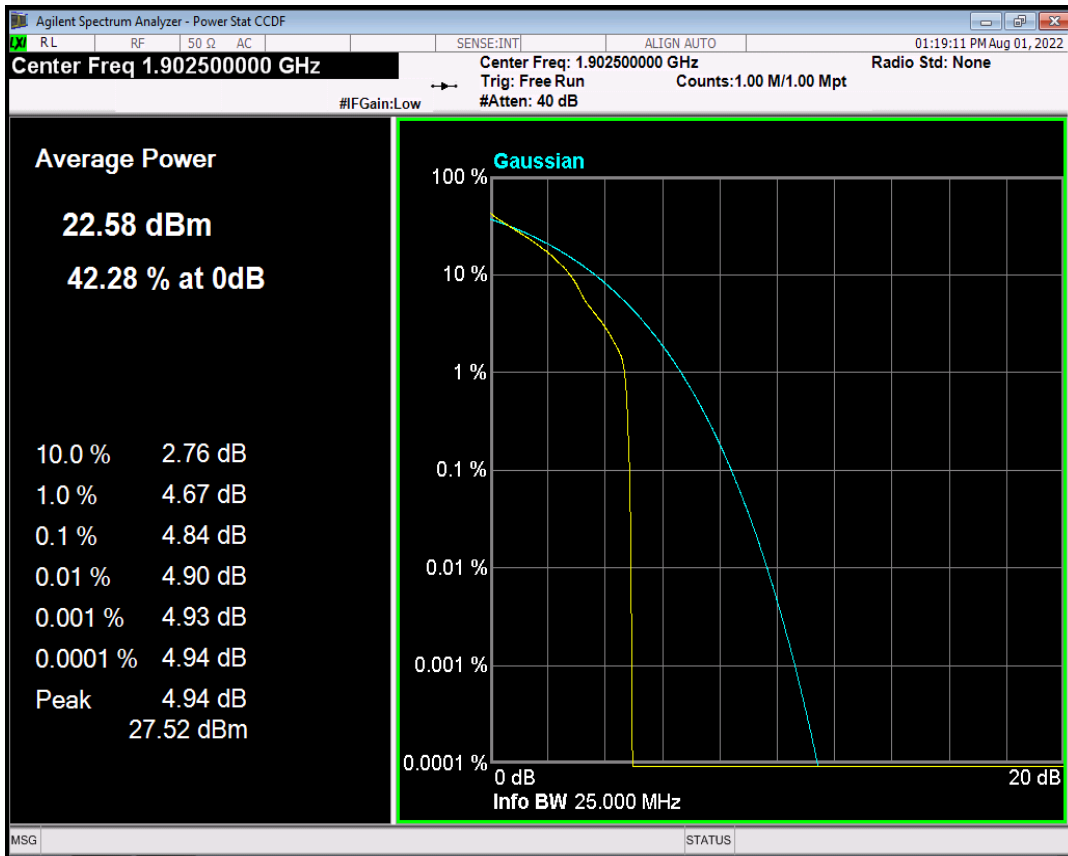


Band2 QAM16 BW=15MHz Channel=18900 RB Size=1 Position=#0

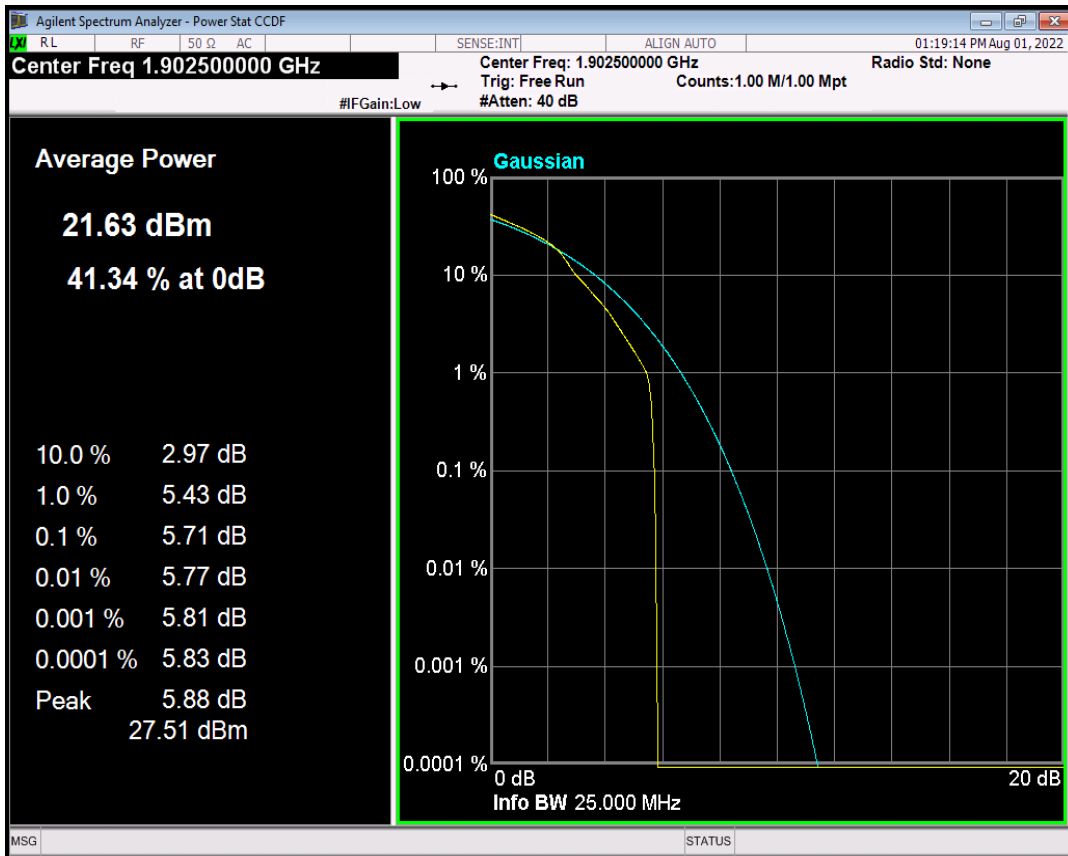




Band2 QPSK BW=15MHz Channel=19125 RB Size=1 Position=#0

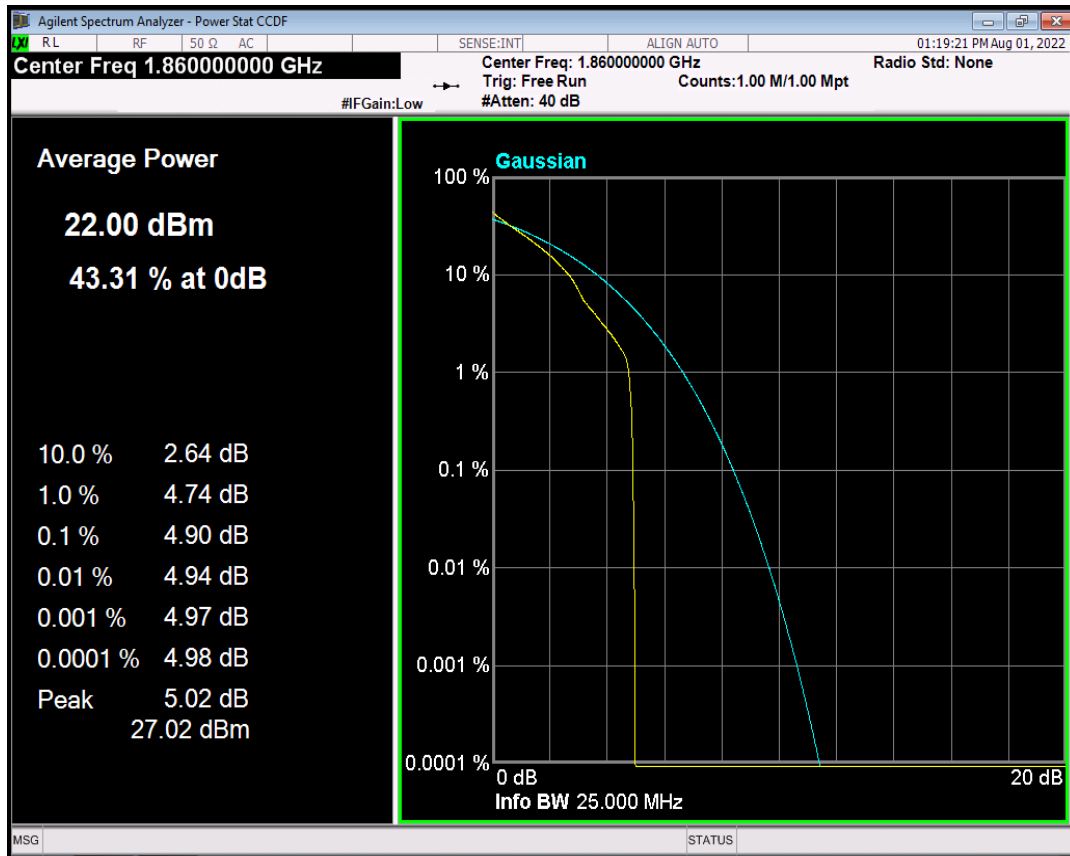


Band2 QAM16 BW=15MHz Channel=19125 RB Size=1 Position=#0

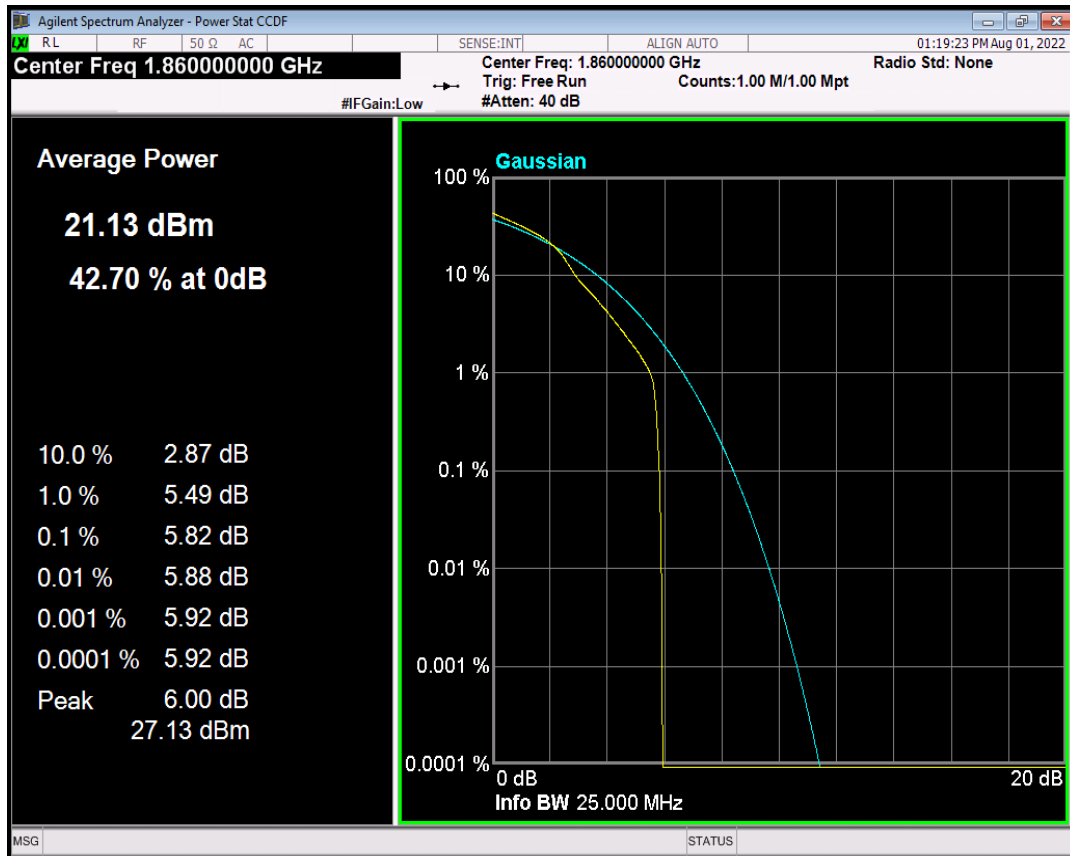




Band2 QPSK BW=20MHz Channel=18700 RB Size=1 Position=#0

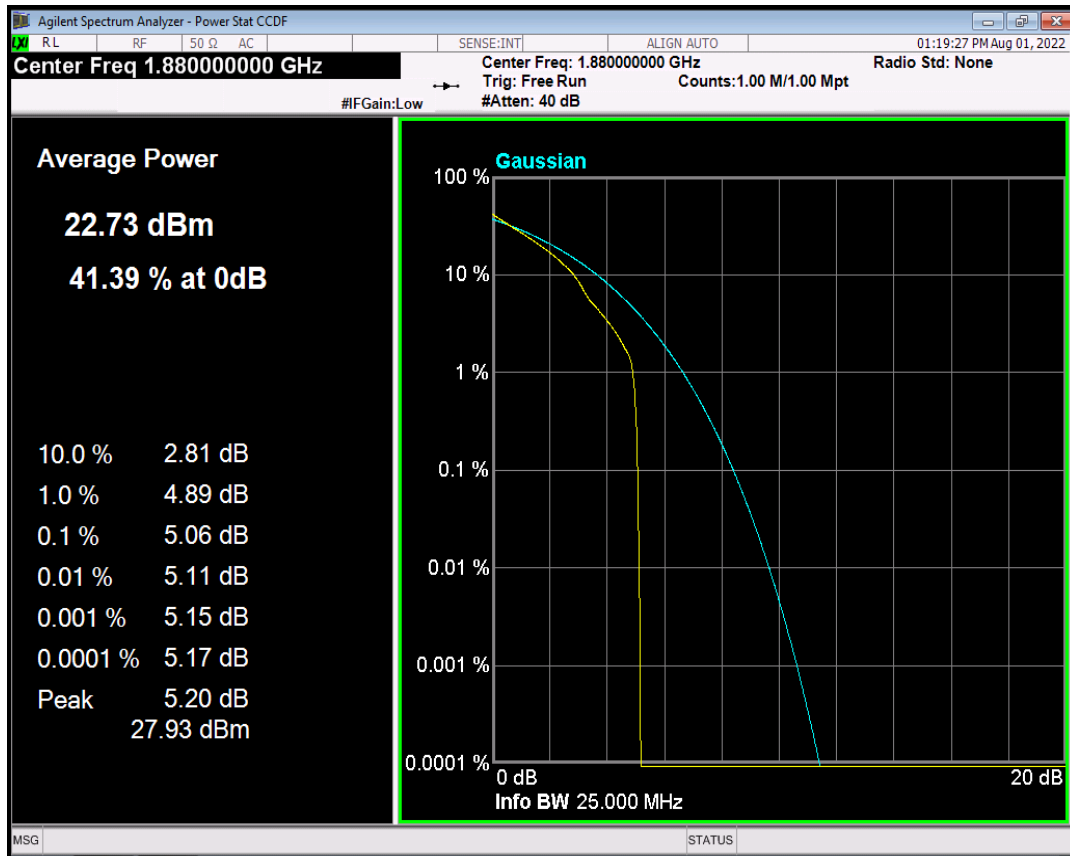


Band2 QAM16 BW=20MHz Channel=18700 RB Size=1 Position=#0

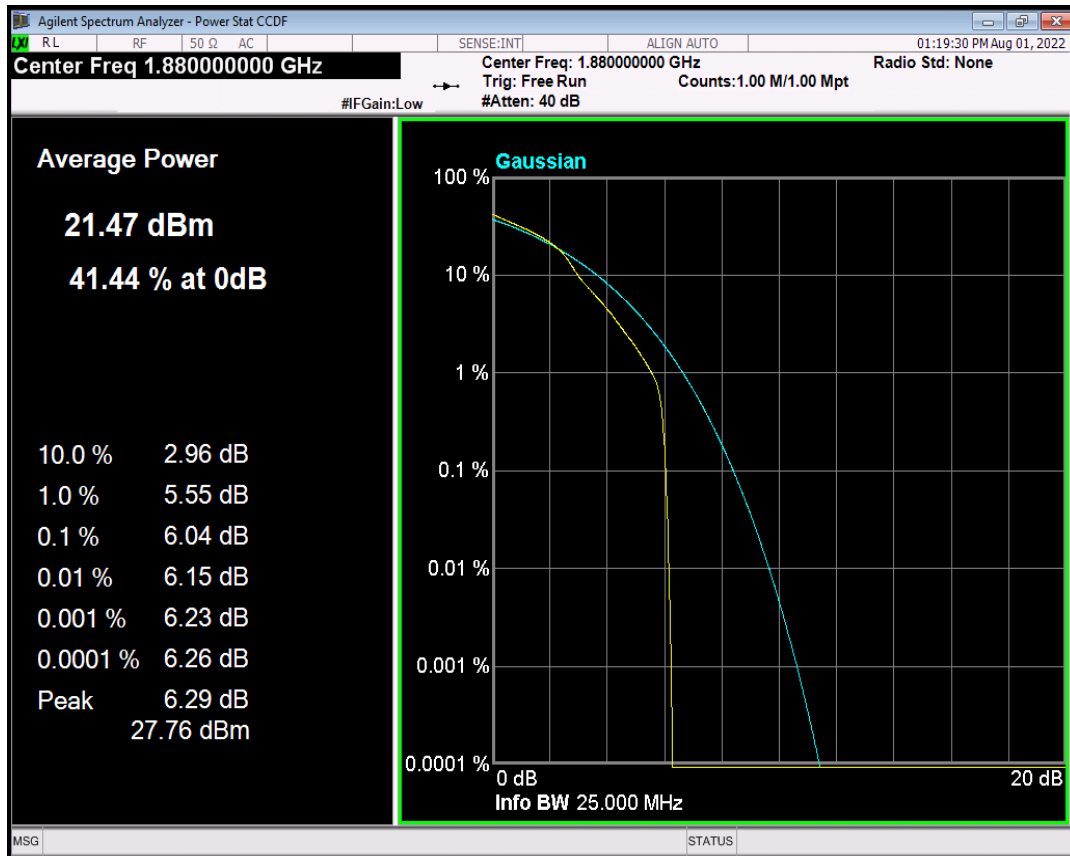




Band2 QPSK BW=20MHz Channel=18900 RB Size=1 Position=#0

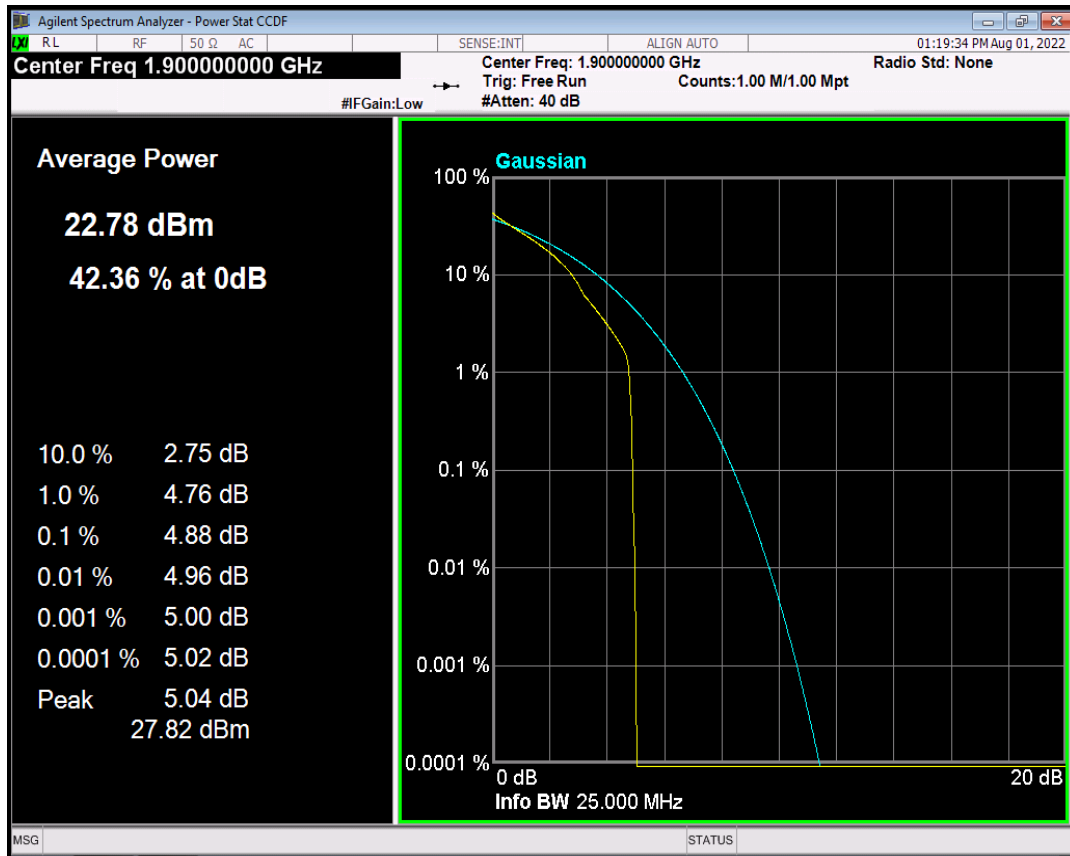


Band2 QAM16 BW=20MHz Channel=18900 RB Size=1 Position=#0

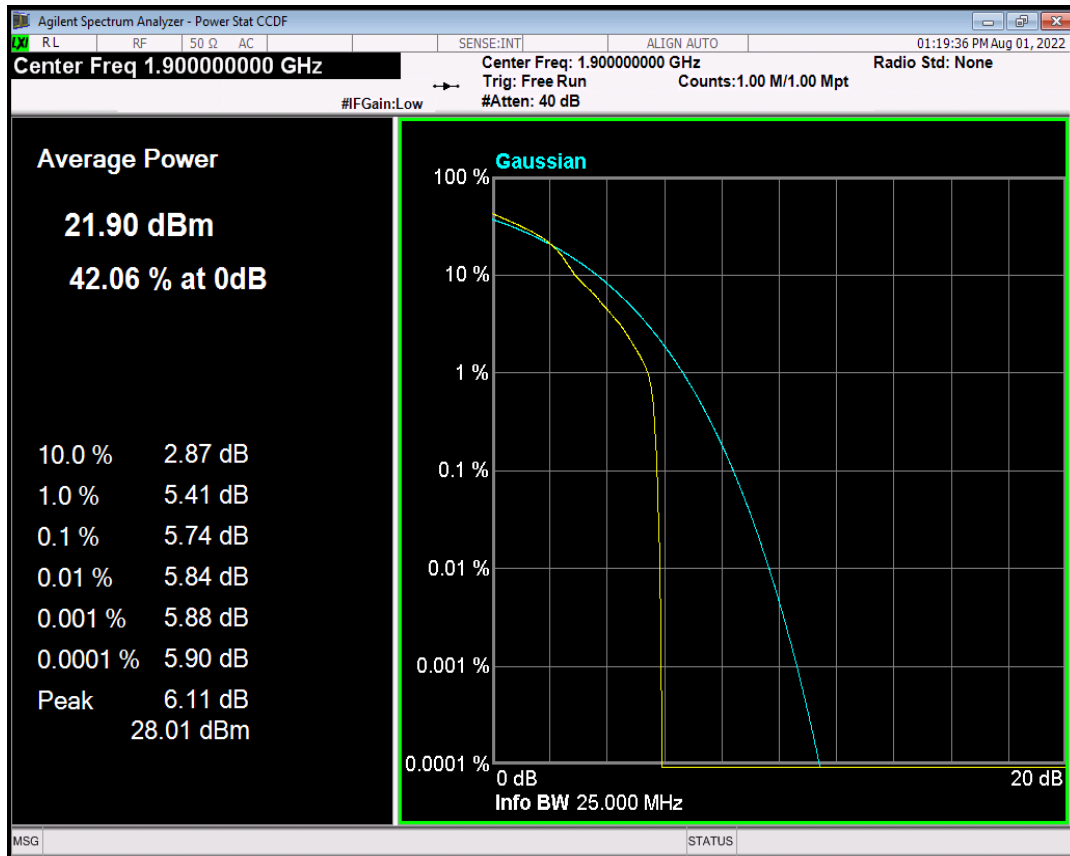




Band2 QPSK BW=20MHz Channel=19100 RB Size=1 Position=#0



Band2 QAM16 BW=20MHz Channel=19100 RB Size=1 Position=#0

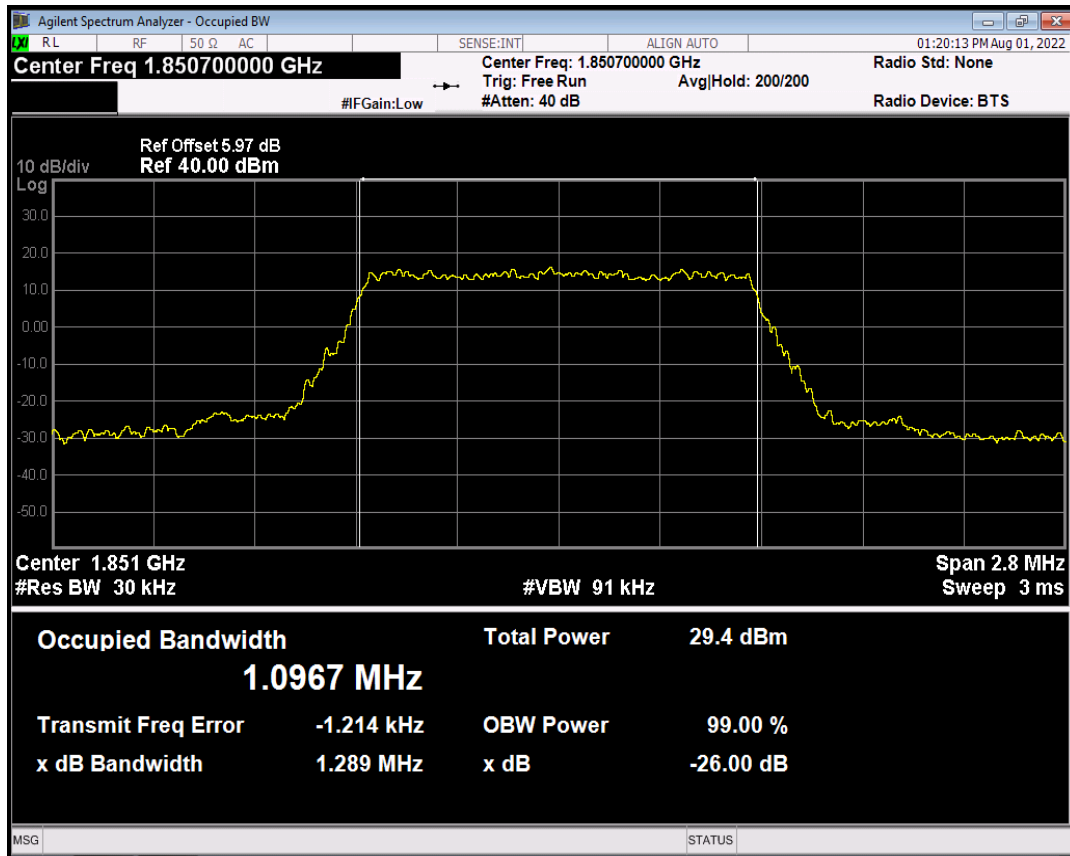


Appendix4. Occupied bandwidth

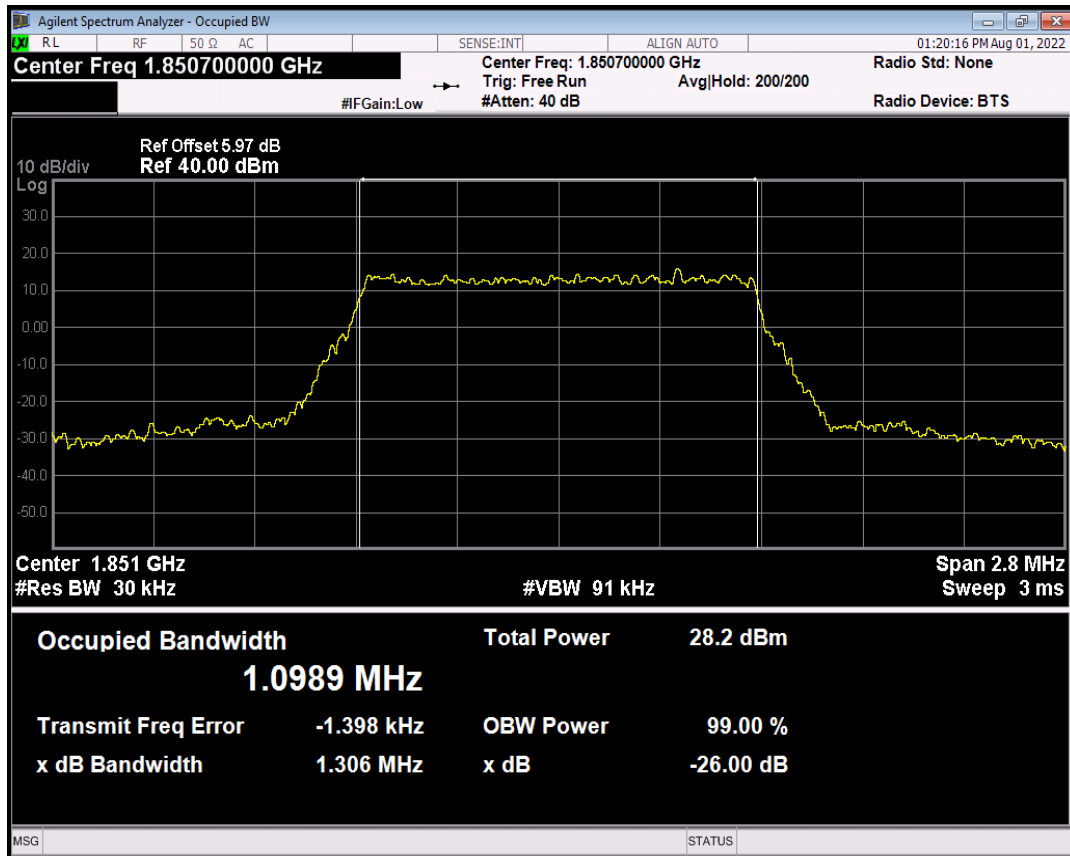
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band2	1.4	18607	6	#0	QPSK	1.097	1.289	PASS
Band2	1.4	18607	6	#0	QAM16	1.099	1.306	PASS
Band2	1.4	18900	6	#0	QPSK	1.092	1.297	PASS
Band2	1.4	18900	6	#0	QAM16	1.093	1.297	PASS
Band2	1.4	19193	6	#0	QPSK	1.100	1.291	PASS
Band2	1.4	19193	6	#0	QAM16	1.093	1.298	PASS
Band2	3	18615	15	#0	QPSK	2.693	2.986	PASS
Band2	3	18615	15	#0	QAM16	2.701	2.940	PASS
Band2	3	18900	15	#0	QPSK	2.697	3.003	PASS
Band2	3	18900	15	#0	QAM16	2.702	2.968	PASS
Band2	3	19185	15	#0	QPSK	2.710	2.981	PASS
Band2	3	19185	15	#0	QAM16	2.701	2.982	PASS
Band2	5	18625	25	#0	QPSK	4.515	4.960	PASS
Band2	5	18625	25	#0	QAM16	4.523	4.968	PASS
Band2	5	18900	25	#0	QPSK	4.511	5.004	PASS
Band2	5	18900	25	#0	QAM16	4.508	4.977	PASS
Band2	5	19175	25	#0	QPSK	4.501	4.944	PASS
Band2	5	19175	25	#0	QAM16	4.500	4.888	PASS
Band2	10	18650	50	#0	QPSK	8.982	9.977	PASS
Band2	10	18650	50	#0	QAM16	9.026	9.804	PASS
Band2	10	18900	50	#0	QPSK	8.951	9.667	PASS
Band2	10	18900	50	#0	QAM16	8.932	9.745	PASS
Band2	10	19150	50	#0	QPSK	8.937	9.671	PASS
Band2	10	19150	50	#0	QAM16	8.933	9.763	PASS
Band2	15	18675	75	#0	QPSK	13.477	14.659	PASS
Band2	15	18675	75	#0	QAM16	13.465	14.578	PASS
Band2	15	18900	75	#0	QPSK	13.375	14.392	PASS
Band2	15	18900	75	#0	QAM16	13.391	14.490	PASS
Band2	15	19125	75	#0	QPSK	13.459	14.618	PASS
Band2	15	19125	75	#0	QAM16	13.465	14.463	PASS
Band2	20	18700	100	#0	QPSK	17.819	19.290	PASS
Band2	20	18700	100	#0	QAM16	17.861	19.277	PASS
Band2	20	18900	100	#0	QPSK	17.925	19.446	PASS
Band2	20	18900	100	#0	QAM16	17.820	19.458	PASS
Band2	20	19100	100	#0	QPSK	17.965	19.515	PASS
Band2	20	19100	100	#0	QAM16	18.013	19.441	PASS



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

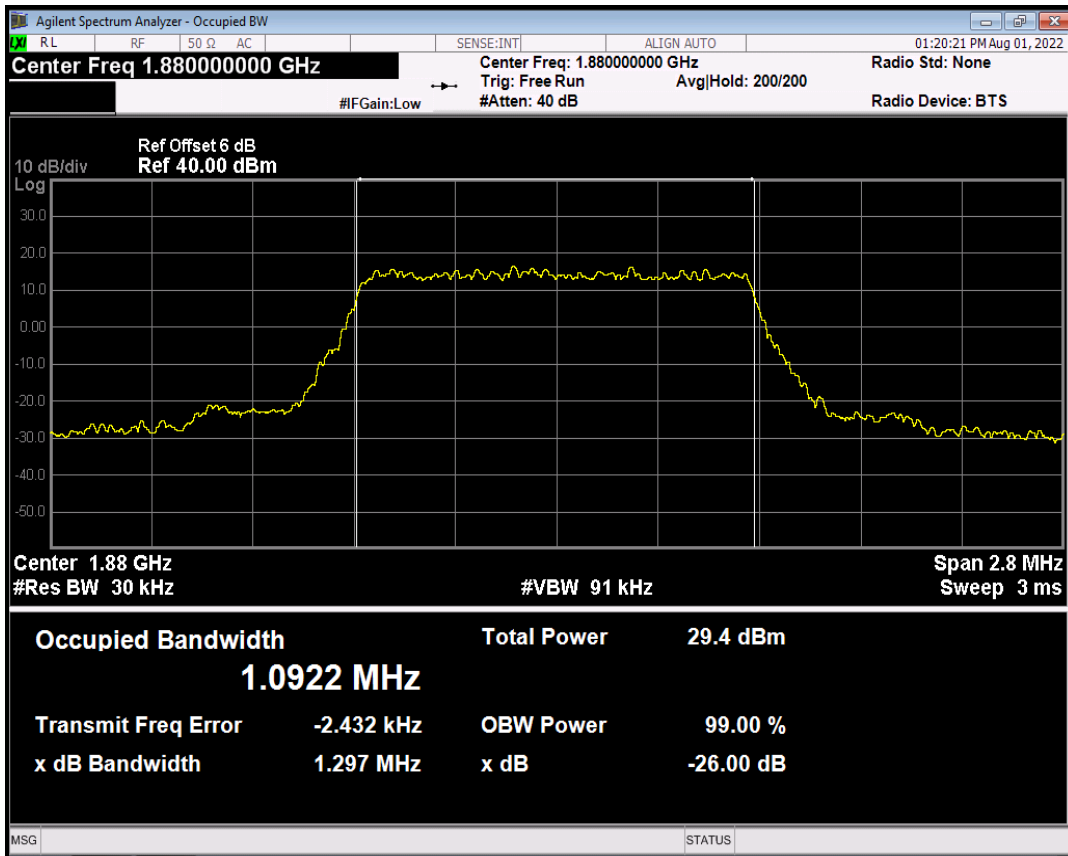


Band2 QAM16 BW=1.4MHz Channel=18607 RB Size=6 Position=#0

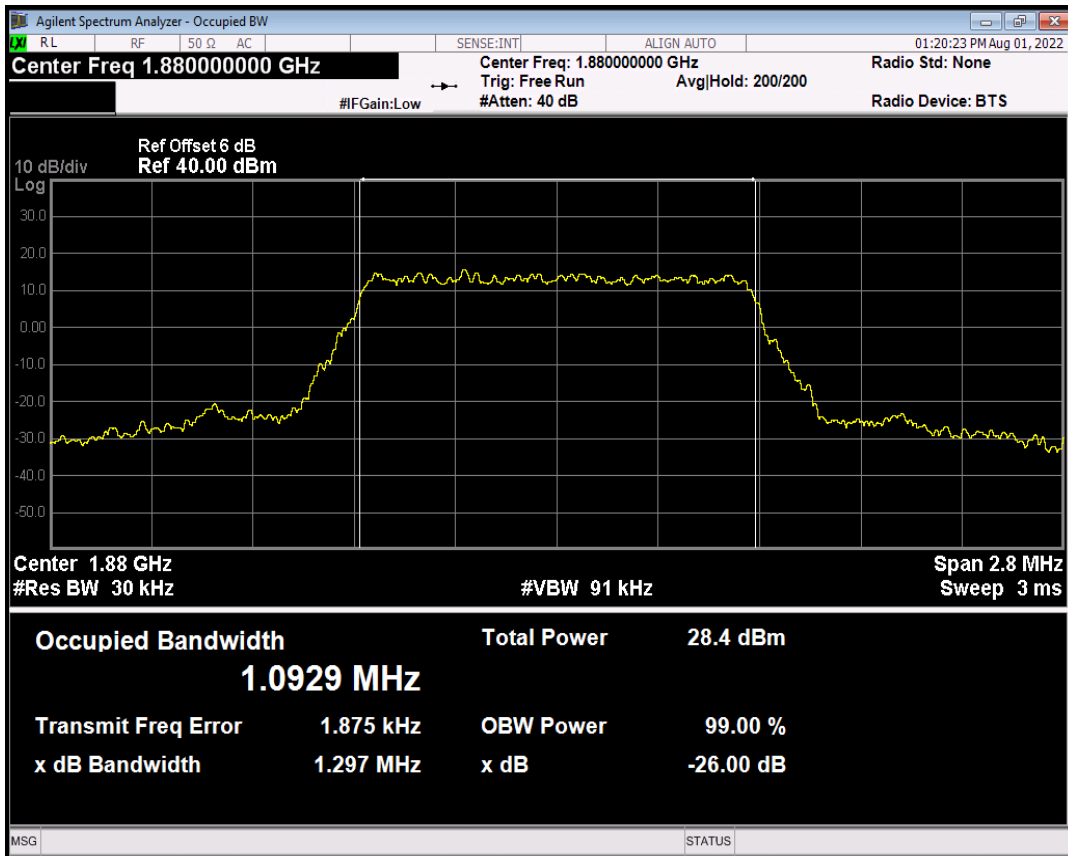




Band2 QPSK BW=1.4MHz Channel=18900 RB Size=6 Position=#0

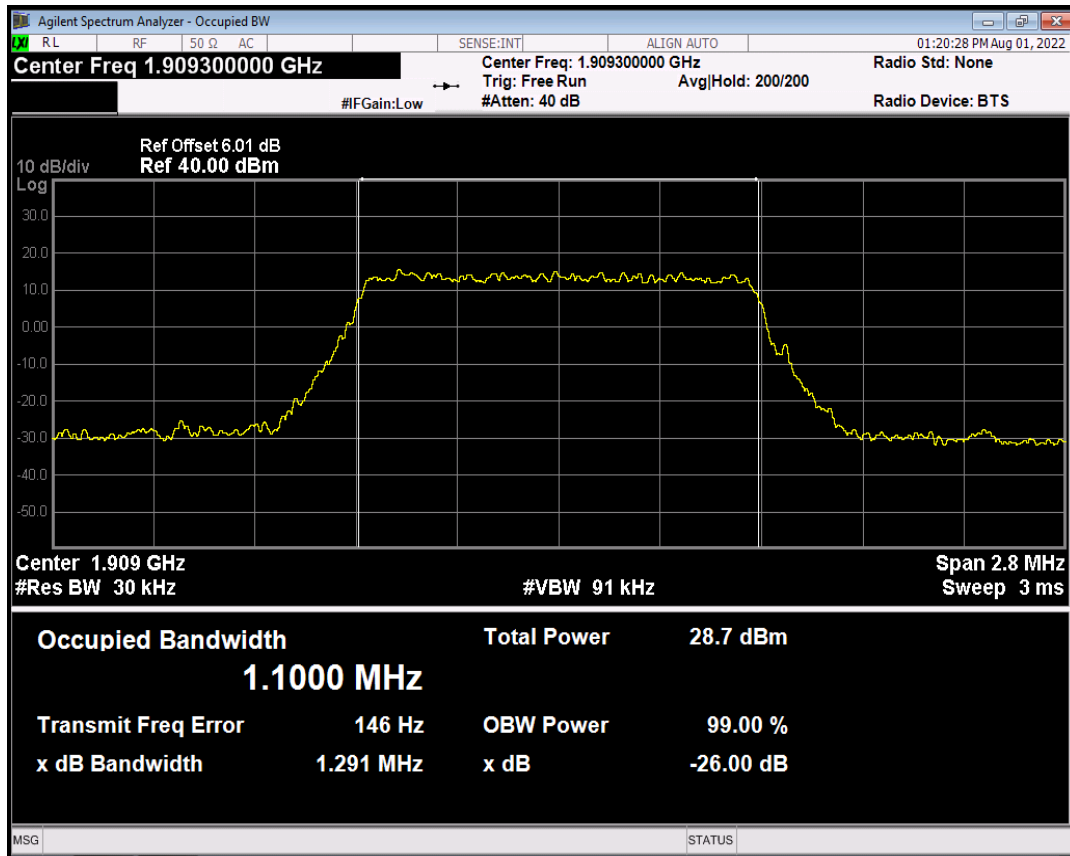


Band2 QAM16 BW=1.4MHz Channel=18900 RB Size=6 Position=#0

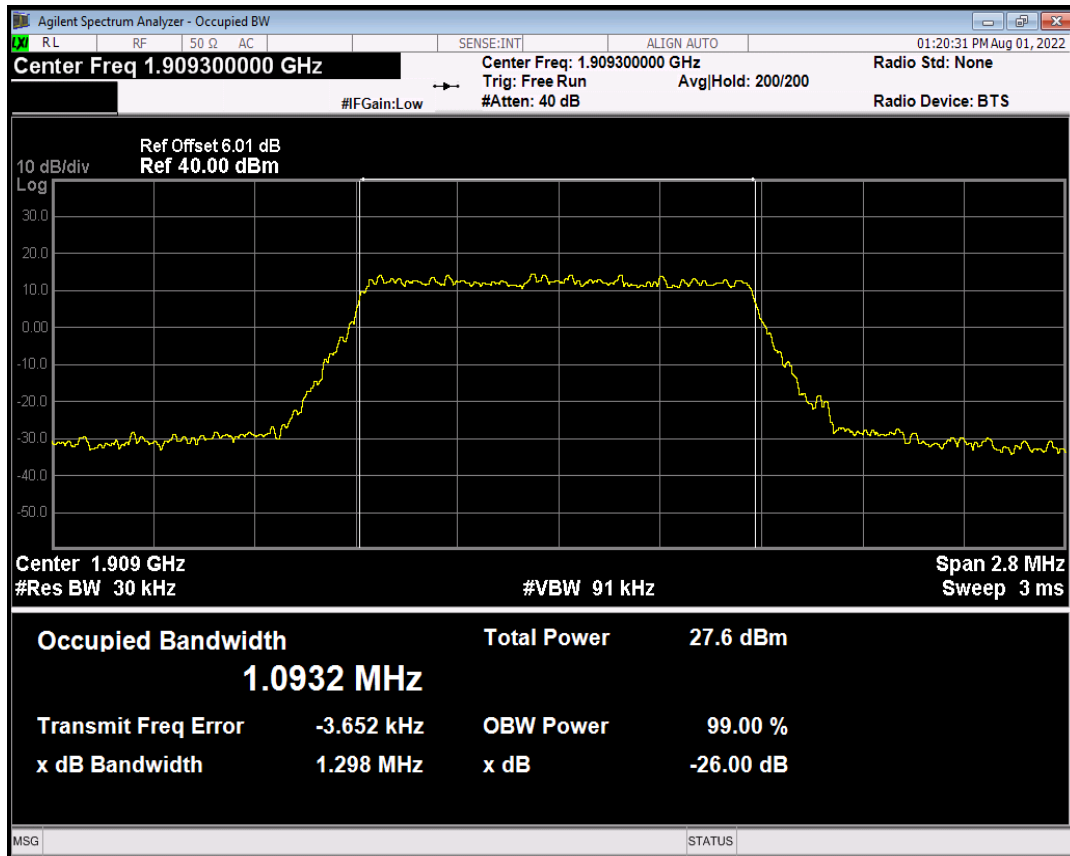




Band2 QPSK BW=1.4MHz Channel=19193 RB Size=6 Position=#0

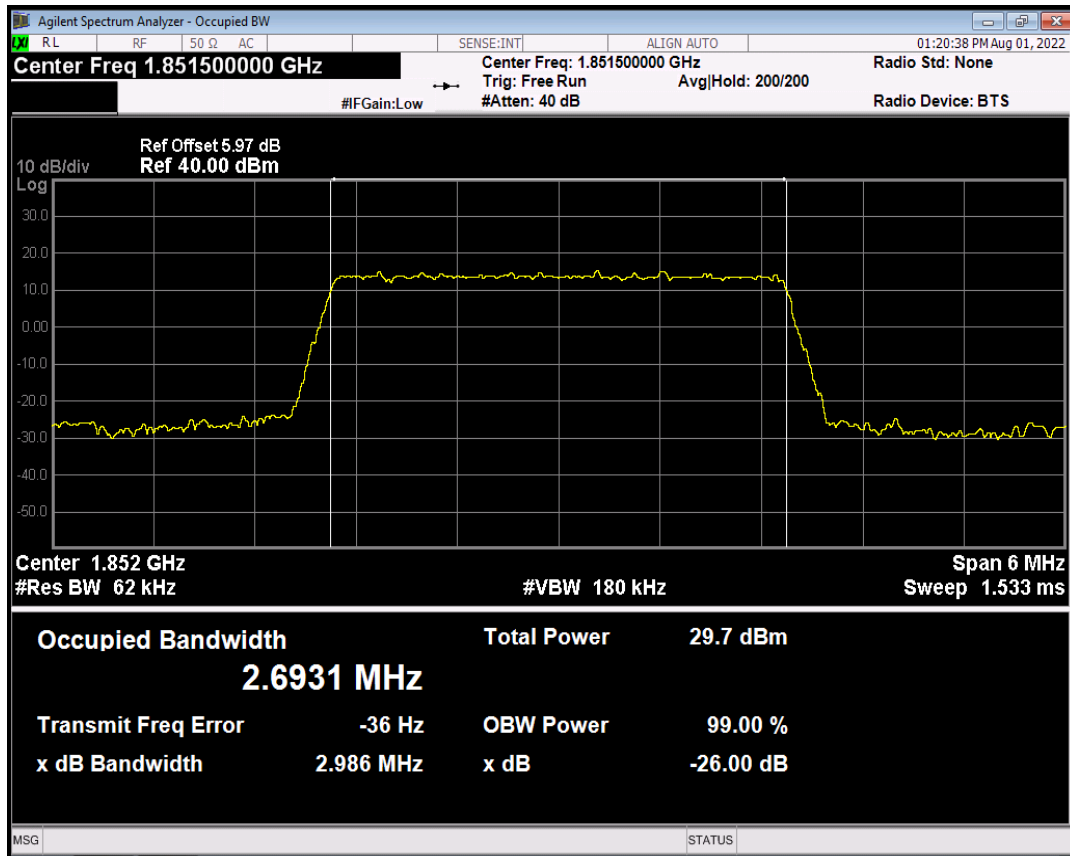


Band2 QAM16 BW=1.4MHz Channel=19193 RB Size=6 Position=#0

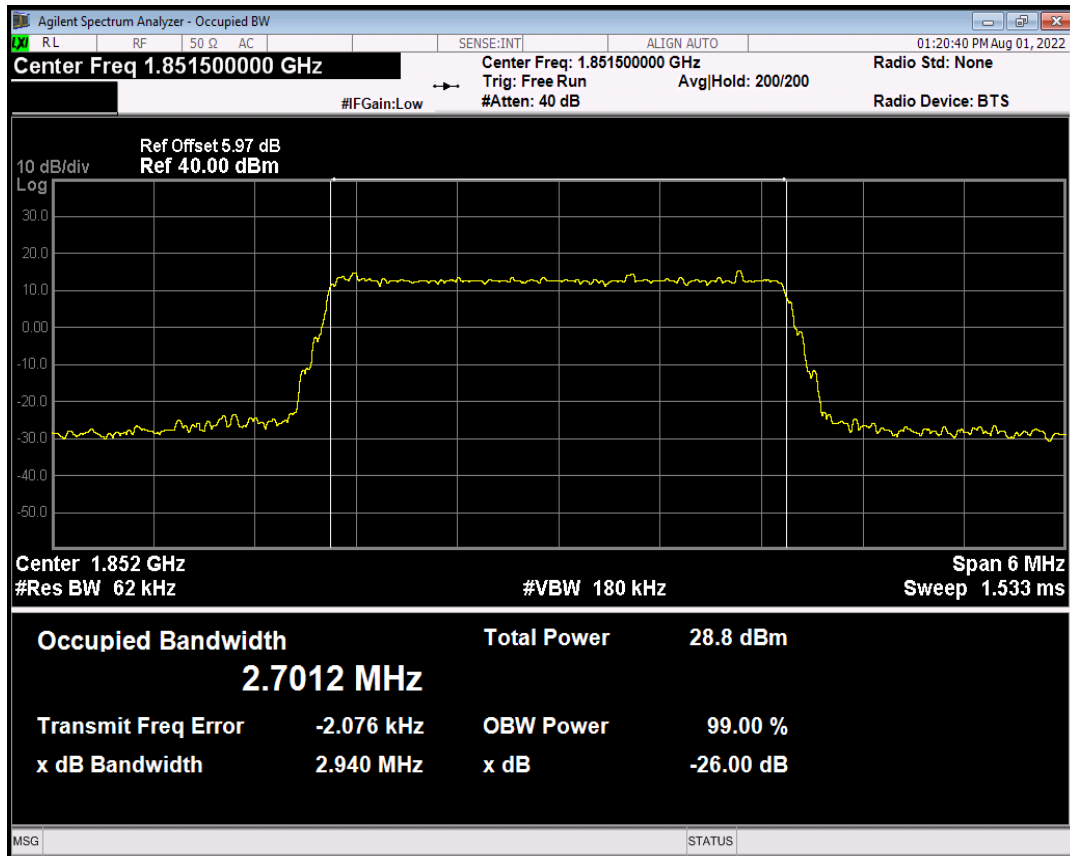




Band2 QPSK BW=3MHz Channel=18615 RB Size=15 Position=#0

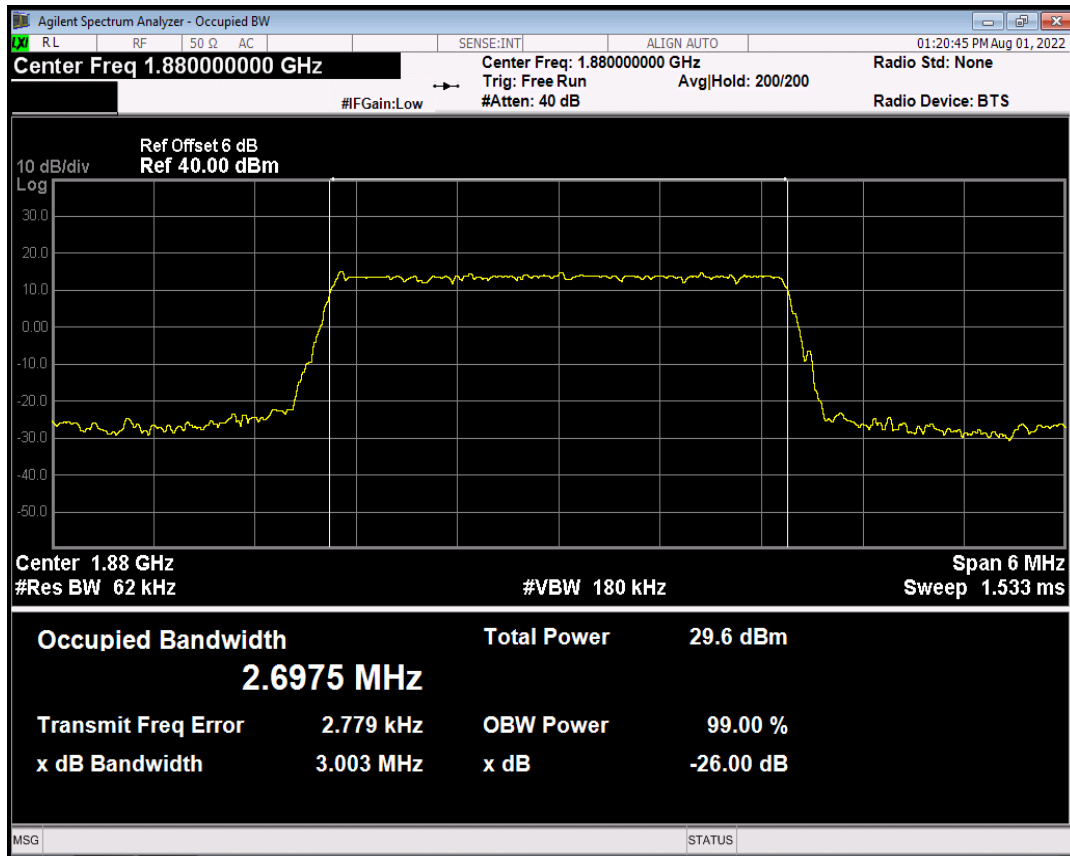


Band2 QAM16 BW=3MHz Channel=18615 RB Size=15 Position=#0

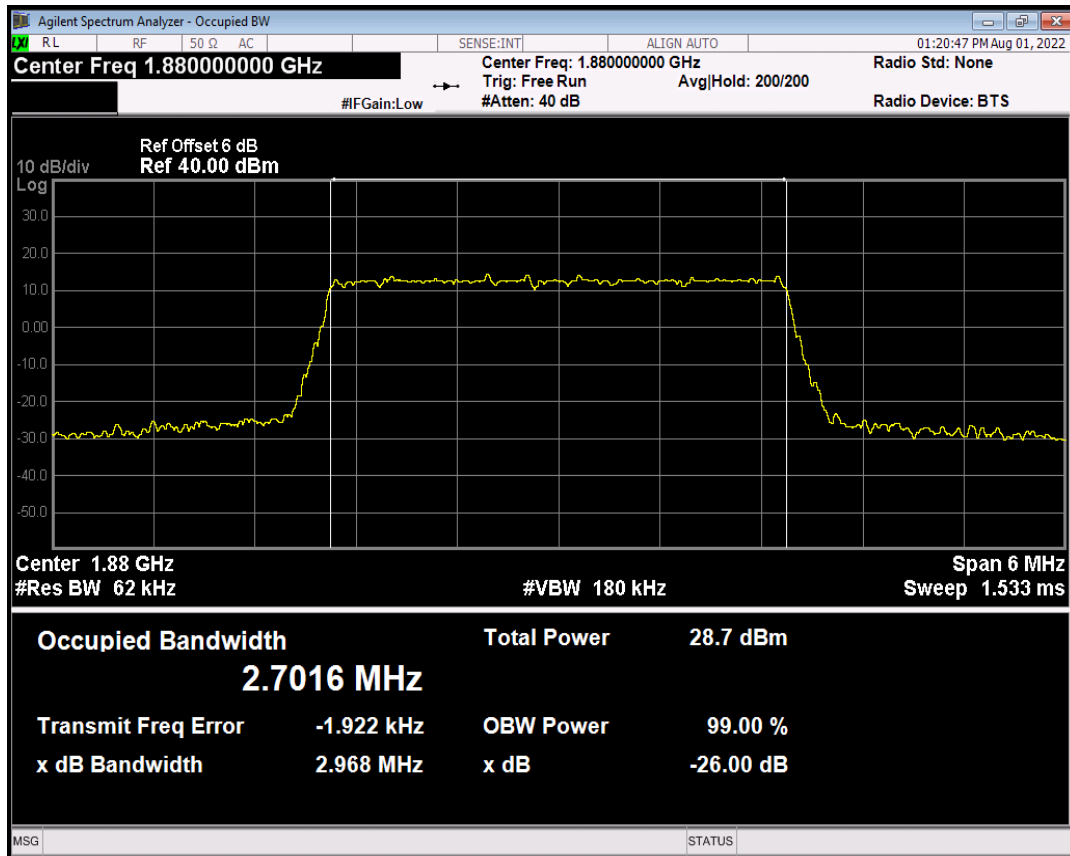




Band2 QPSK BW=3MHz Channel=18900 RB Size=15 Position=#0

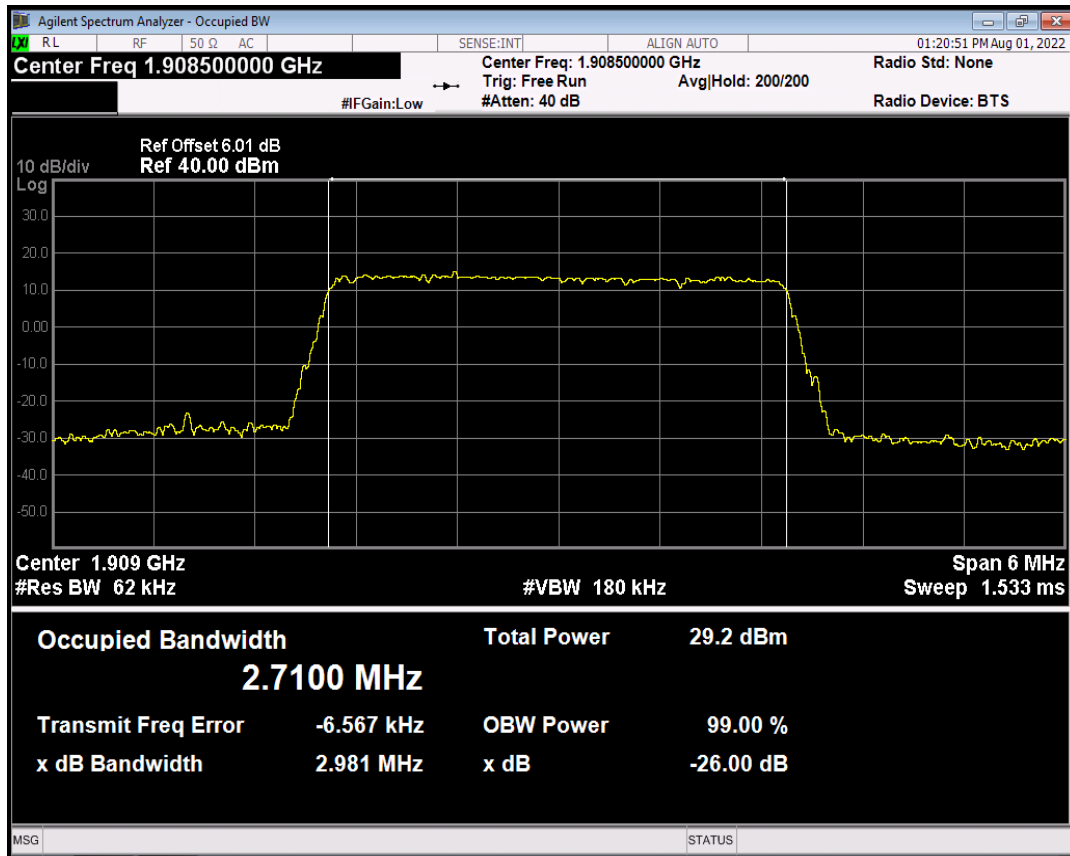


Band2 QAM16 BW=3MHz Channel=18900 RB Size=15 Position=#0

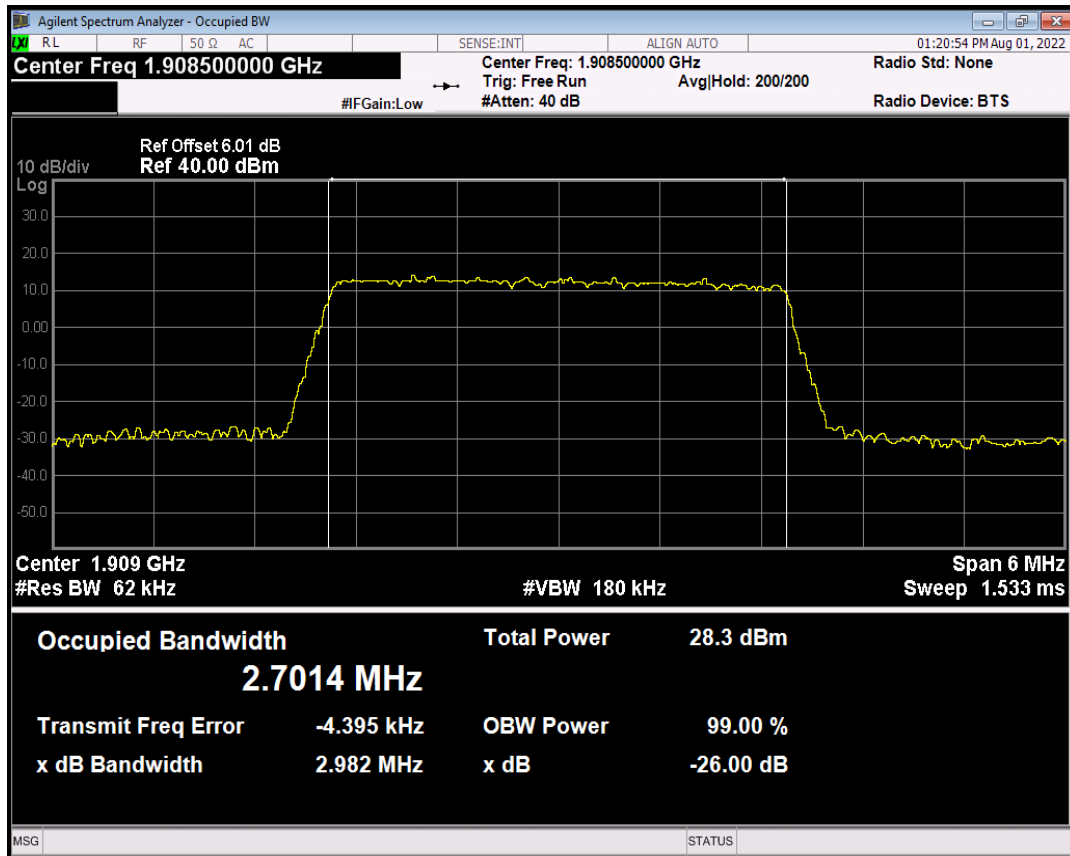




Band2 QPSK BW=3MHz Channel=19185 RB Size=15 Position=#0

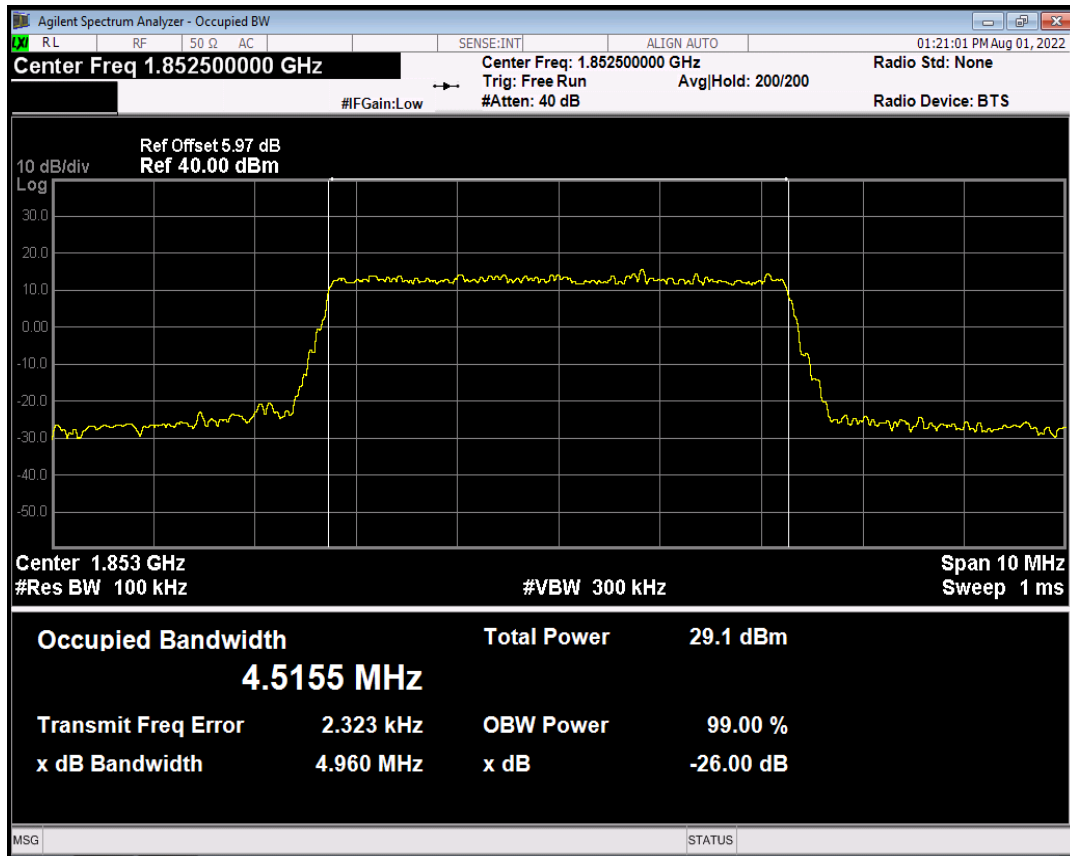


Band2 QAM16 BW=3MHz Channel=19185 RB Size=15 Position=#0

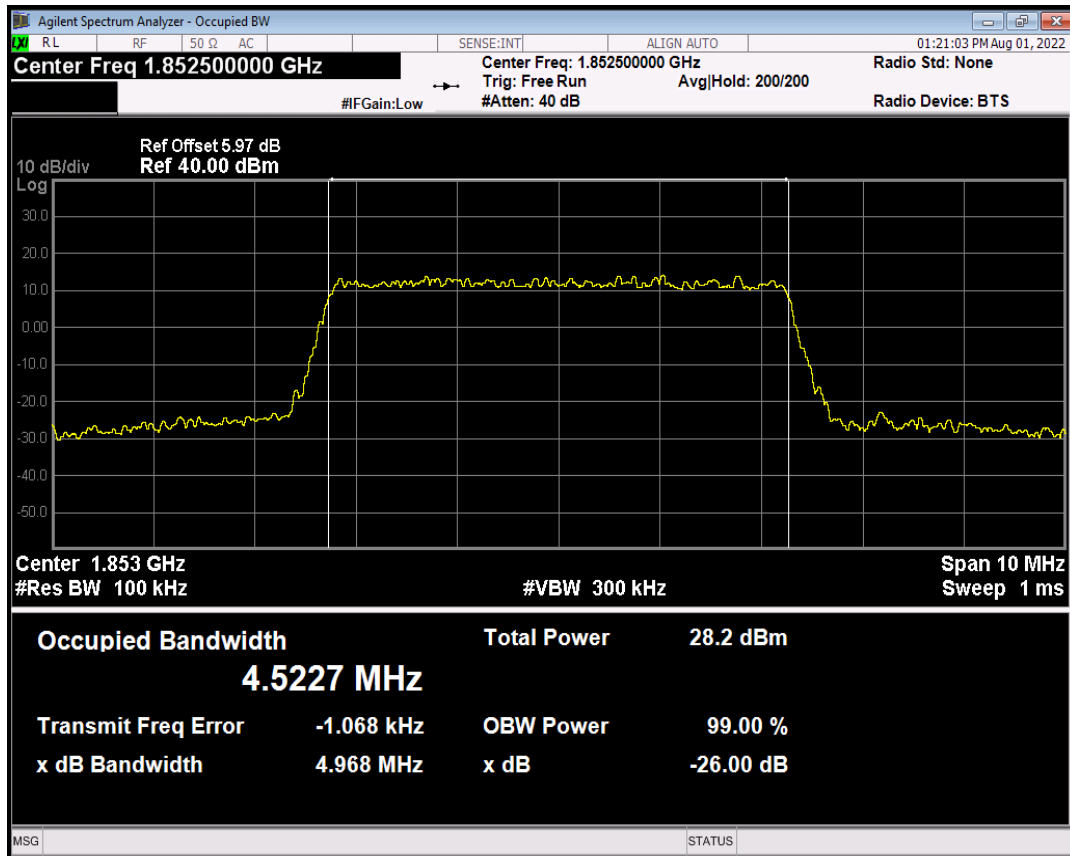




Band2 QPSK BW=5MHz Channel=18625 RB Size=25 Position=#0

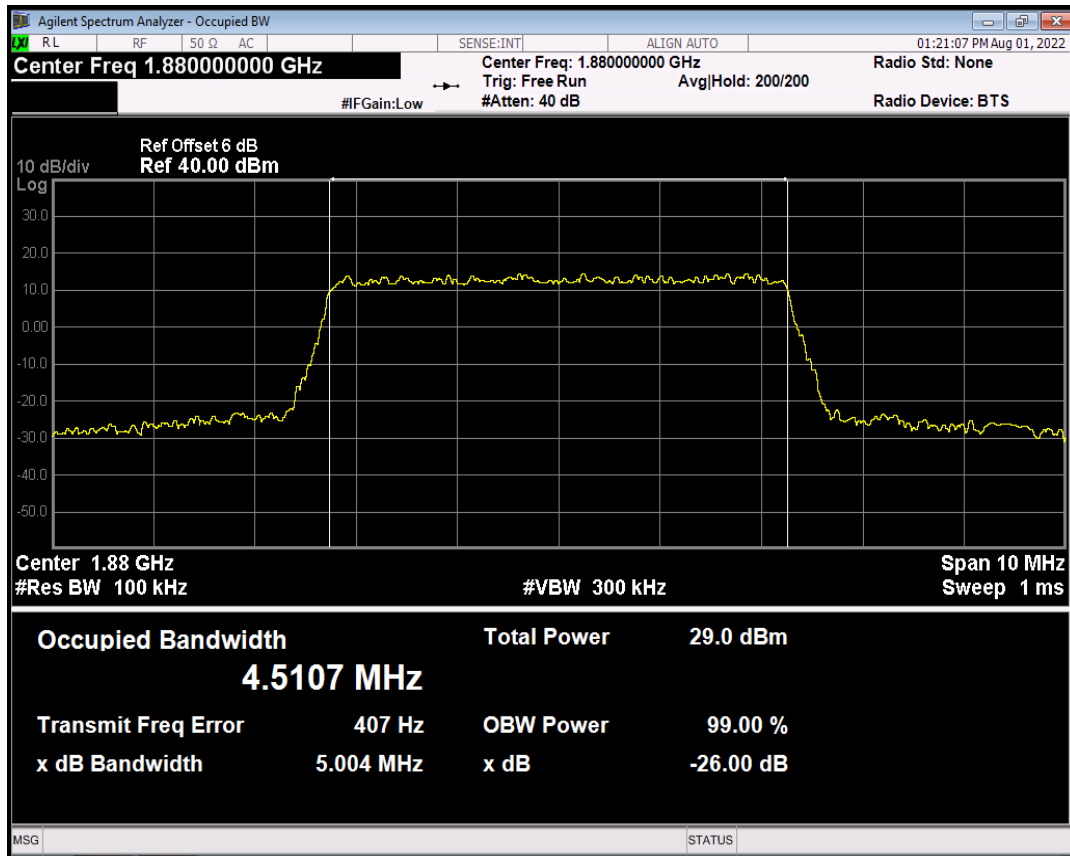


Band2 QAM16 BW=5MHz Channel=18625 RB Size=25 Position=#0

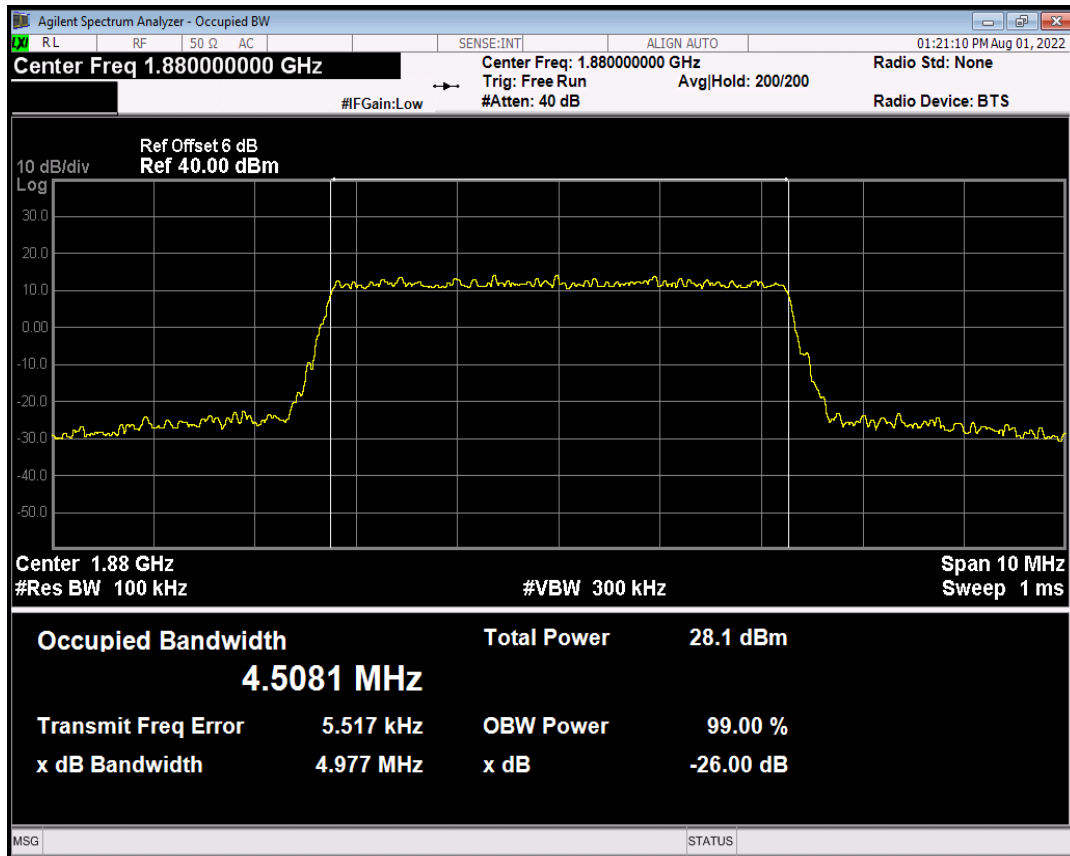




Band2 QPSK BW=5MHz Channel=18900 RB Size=25 Position=#0

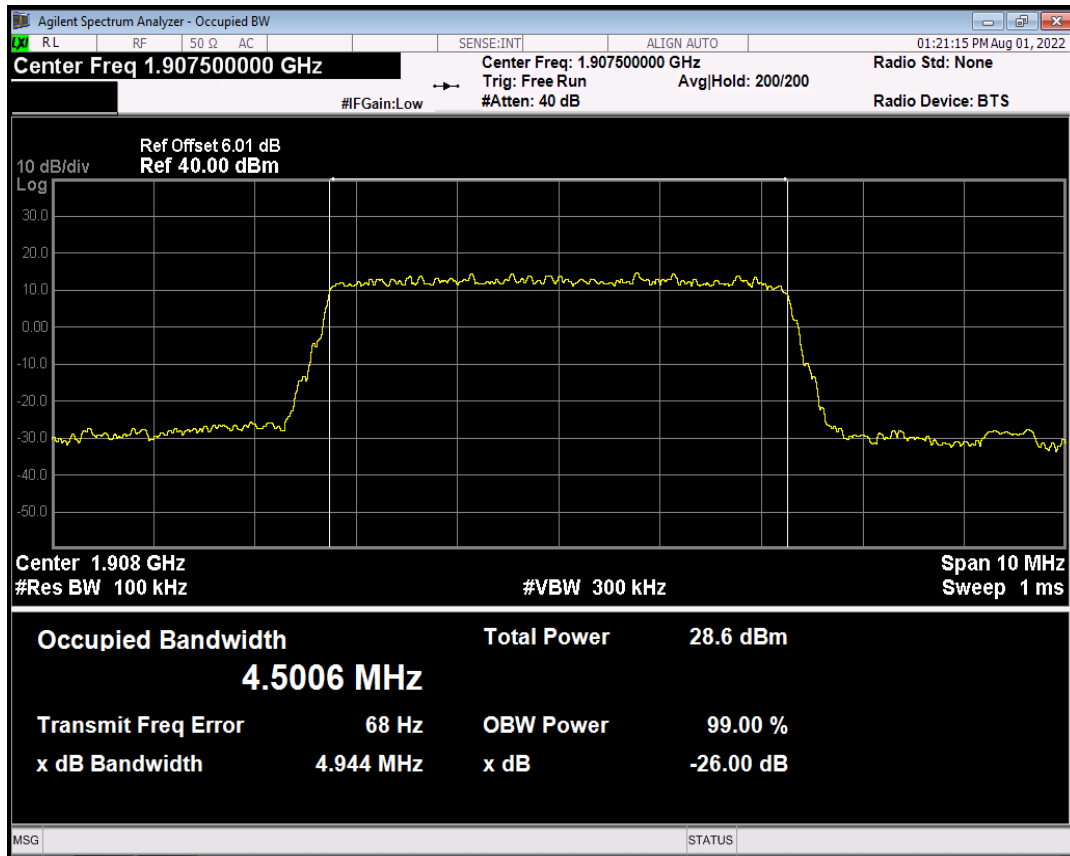


Band2 QAM16 BW=5MHz Channel=18900 RB Size=25 Position=#0

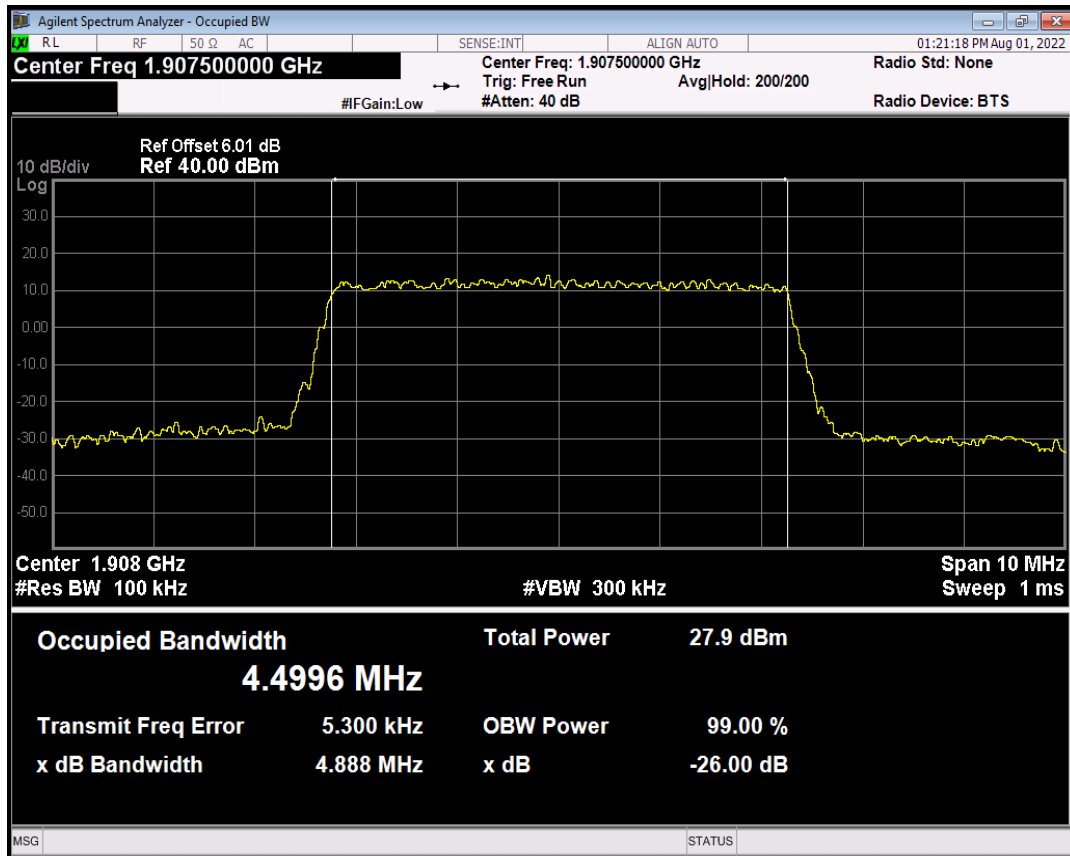




Band2 QPSK BW=5MHz Channel=19175 RB Size=25 Position=#0

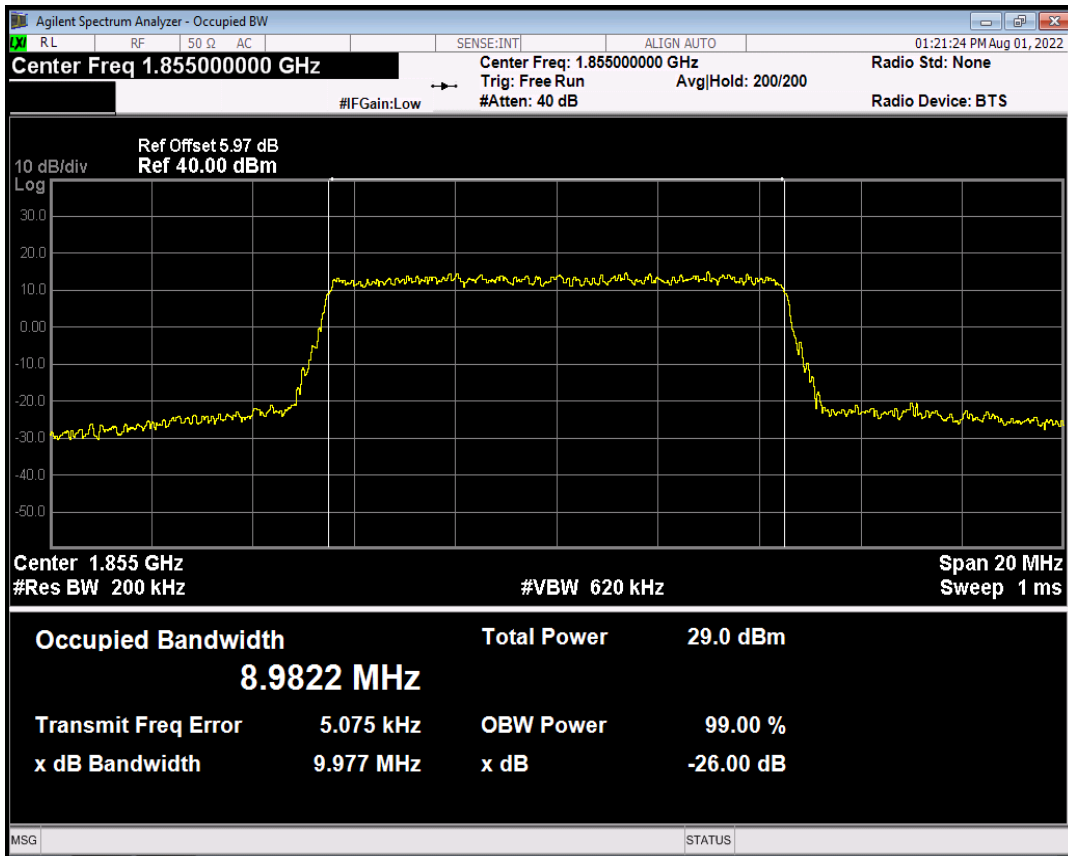


Band2 QAM16 BW=5MHz Channel=19175 RB Size=25 Position=#0

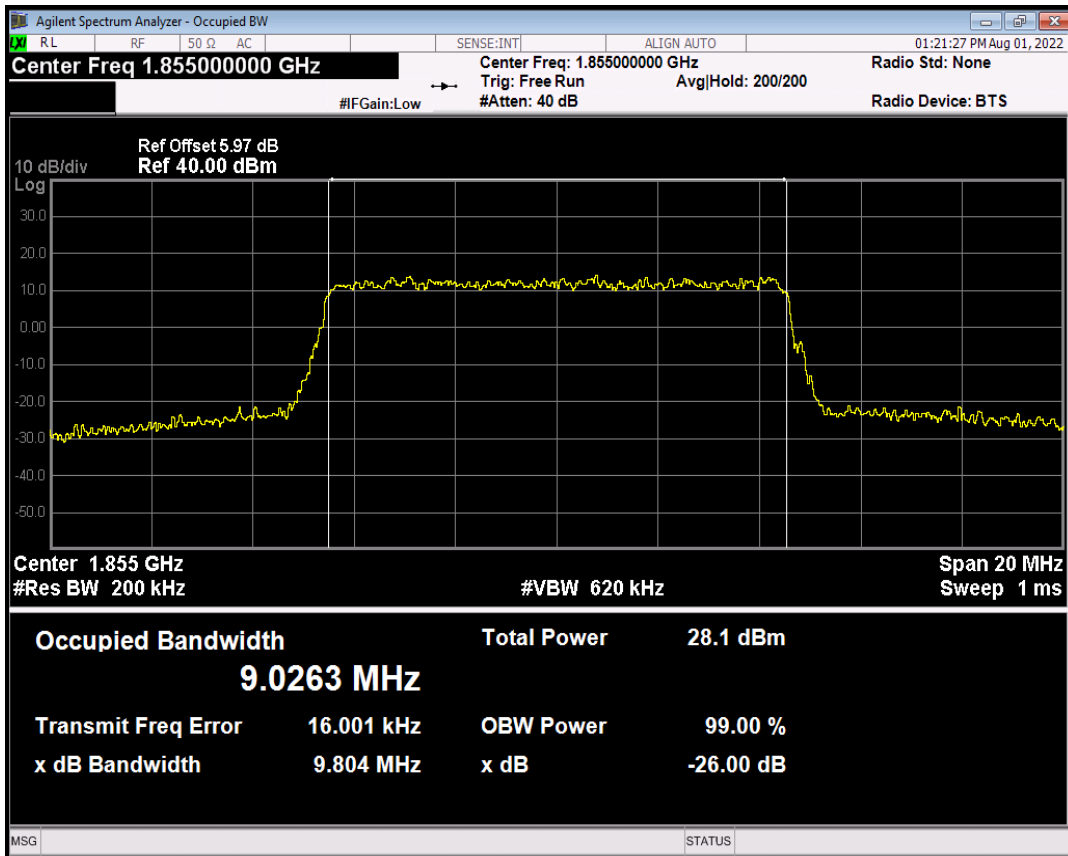




Band2 QPSK BW=10MHz Channel=18650 RB Size=50 Position=#0

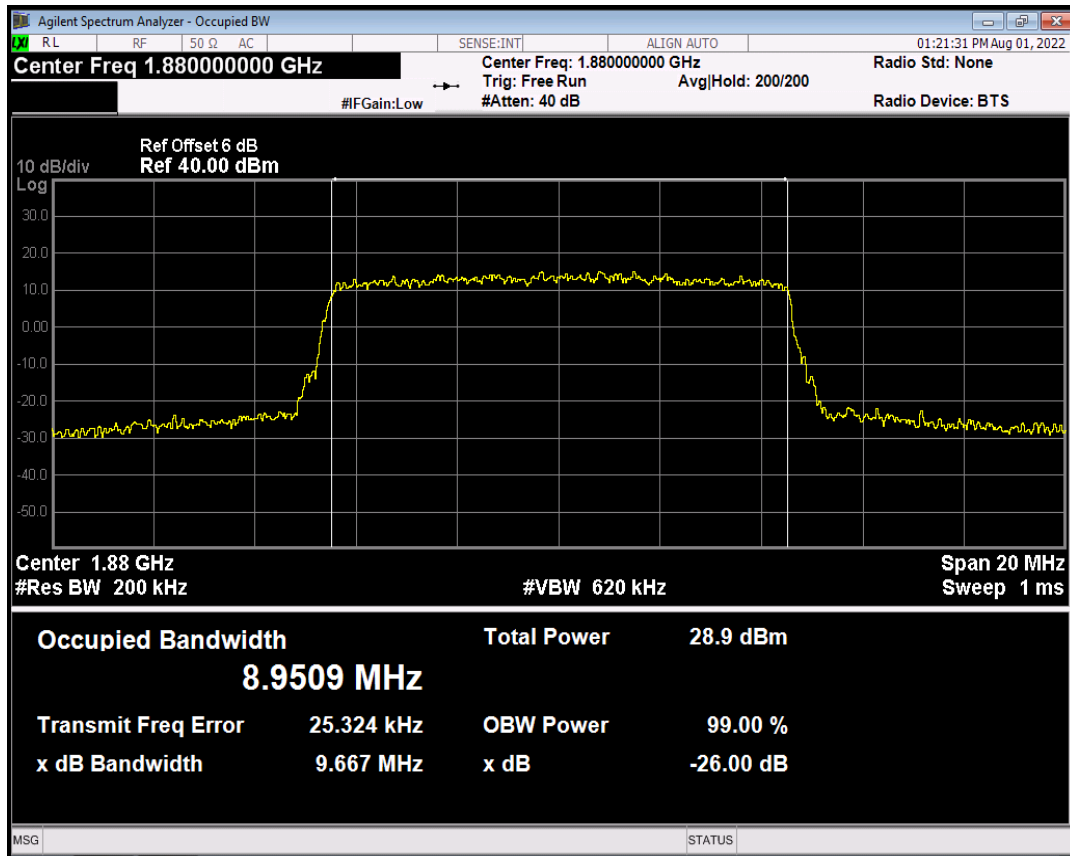


Band2 QAM16 BW=10MHz Channel=18650 RB Size=50 Position=#0

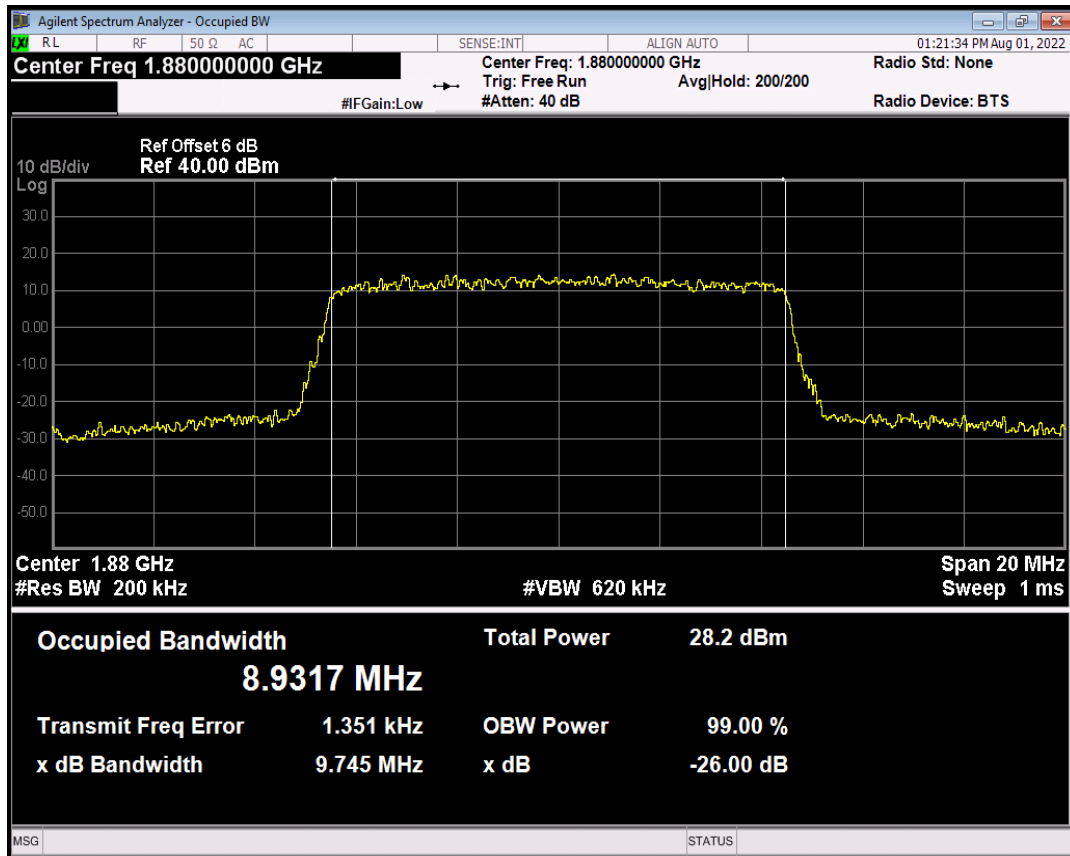




Band2 QPSK BW=10MHz Channel=18900 RB Size=50 Position=#0

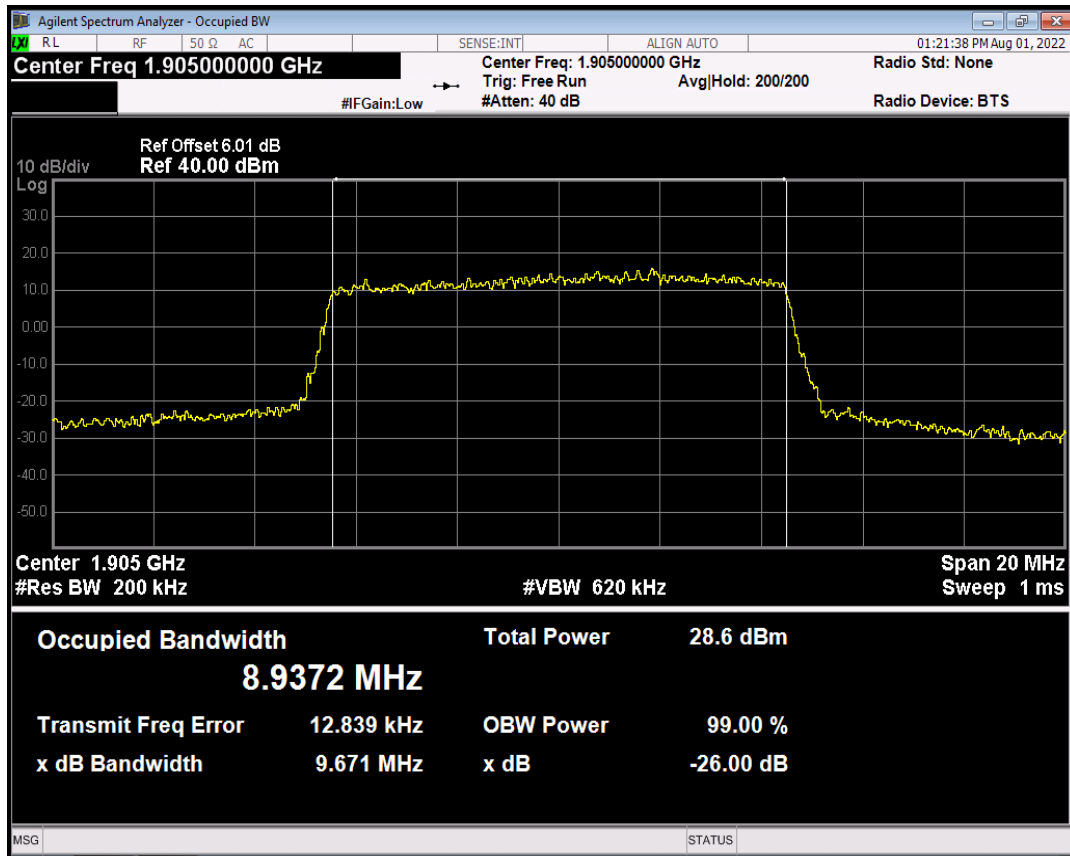


Band2 QAM16 BW=10MHz Channel=18900 RB Size=50 Position=#0

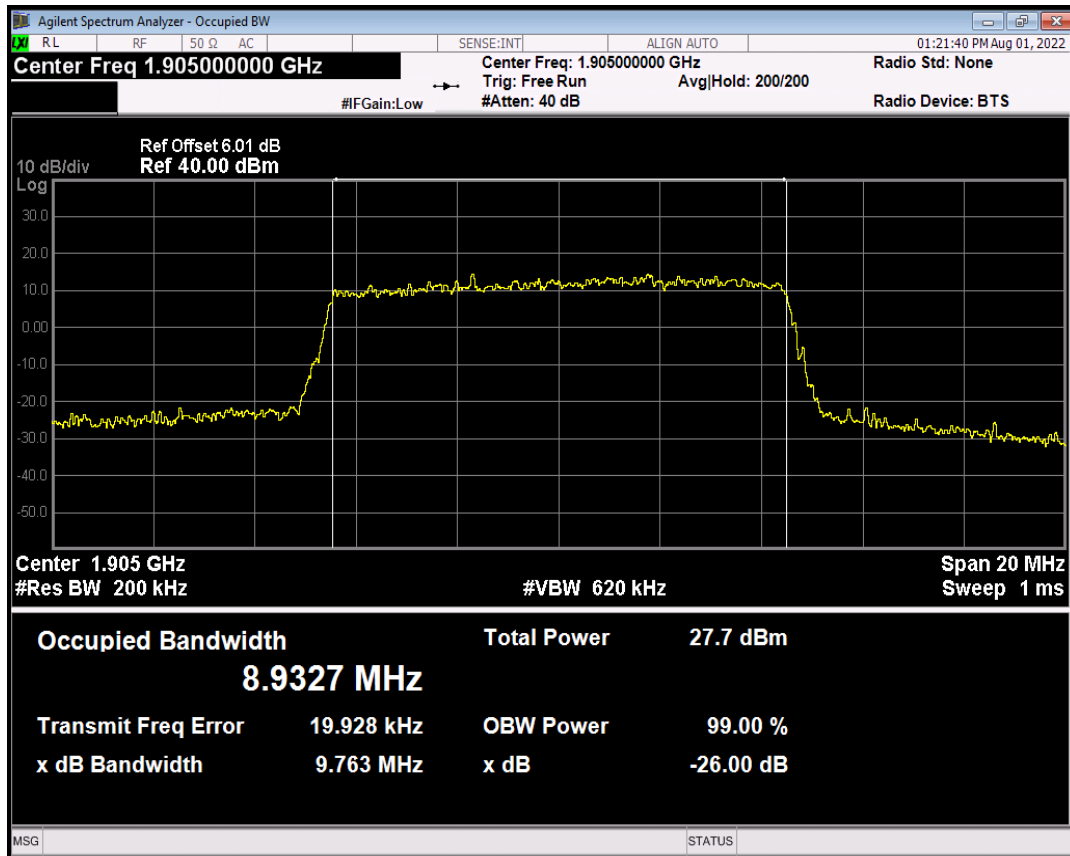




Band2 QPSK BW=10MHz Channel=19150 RB Size=50 Position=#0

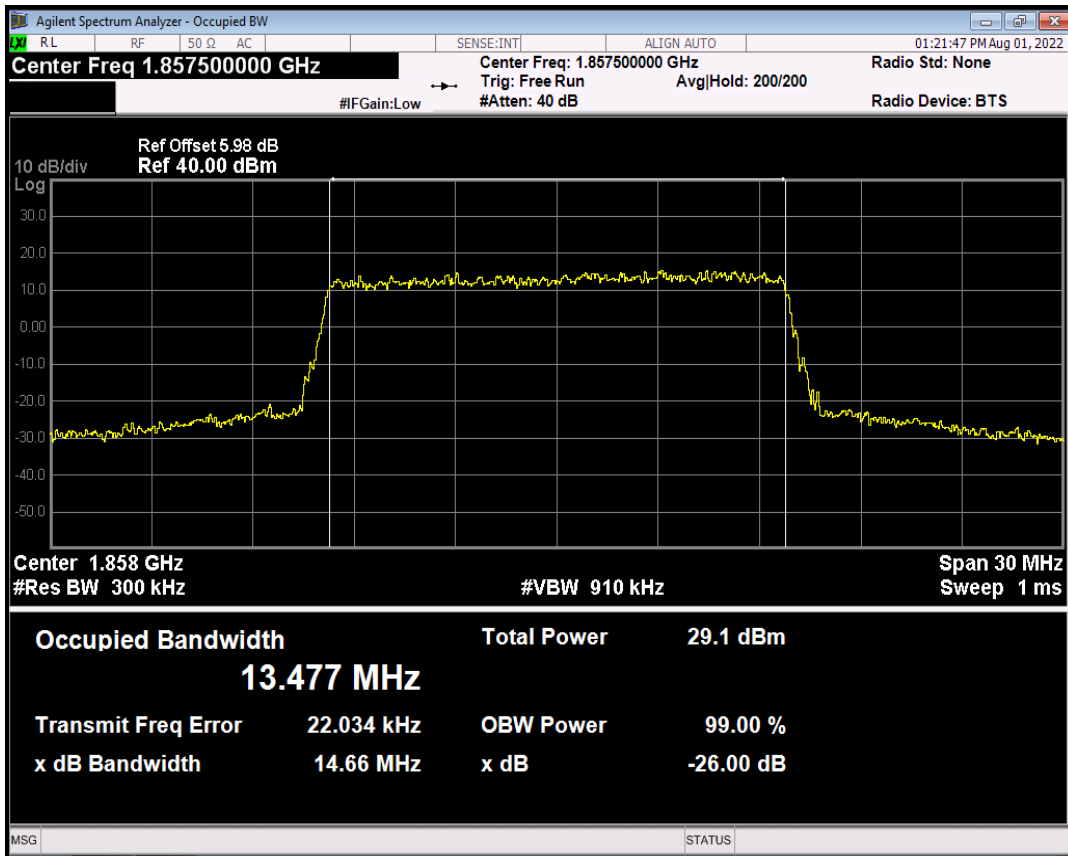


Band2 QAM16 BW=10MHz Channel=19150 RB Size=50 Position=#0





Band2 QPSK BW=15MHz Channel=18675 RB Size=75 Position=#0



Band2 QAM16 BW=15MHz Channel=18675 RB Size=75 Position=#0

