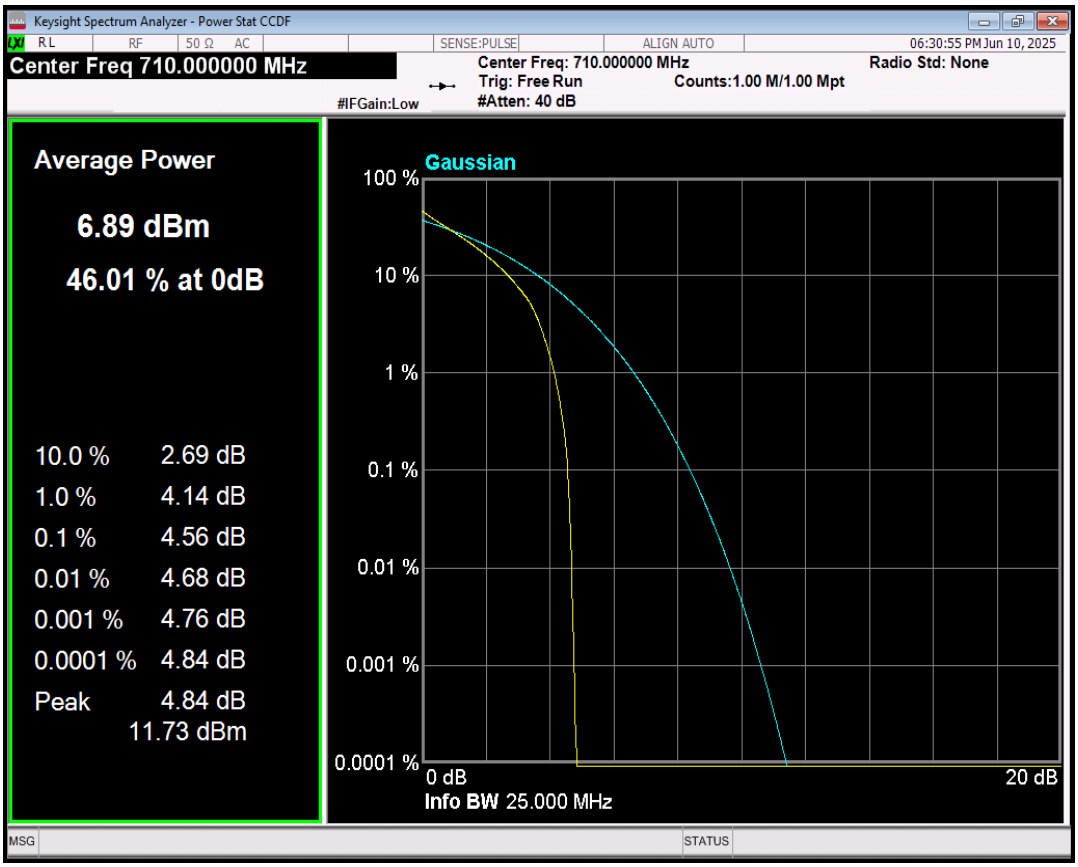
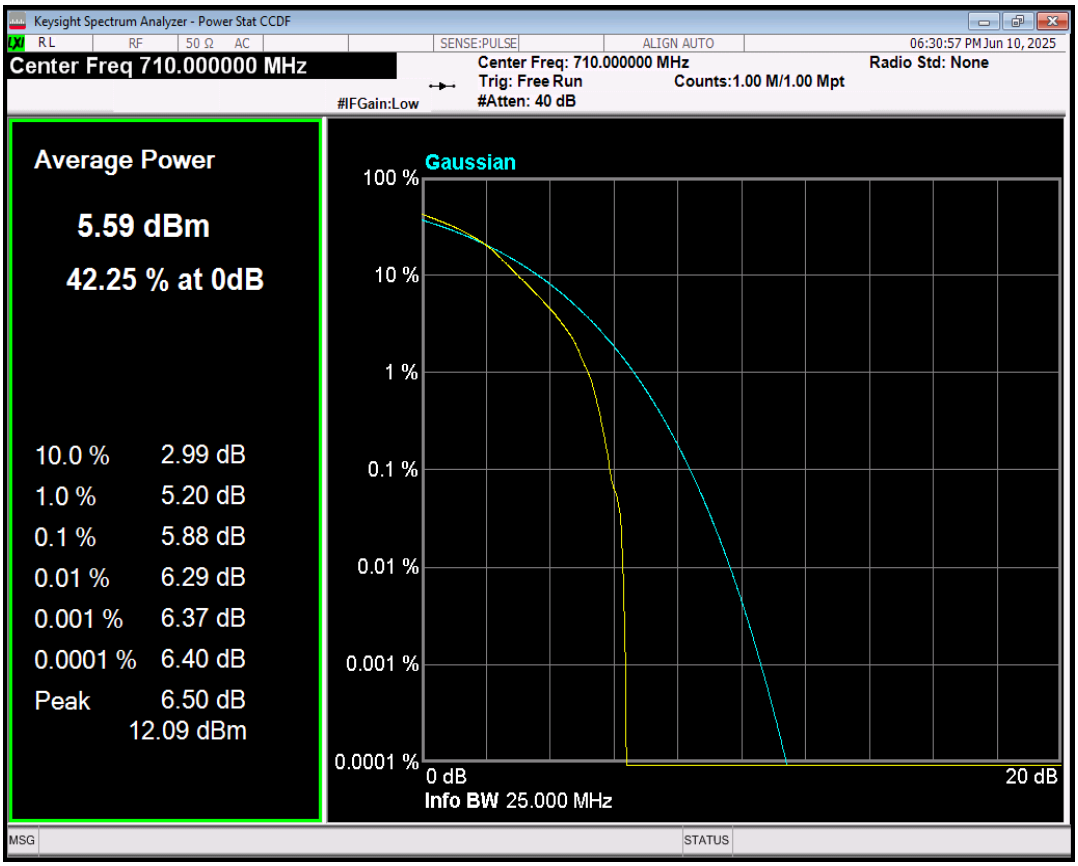
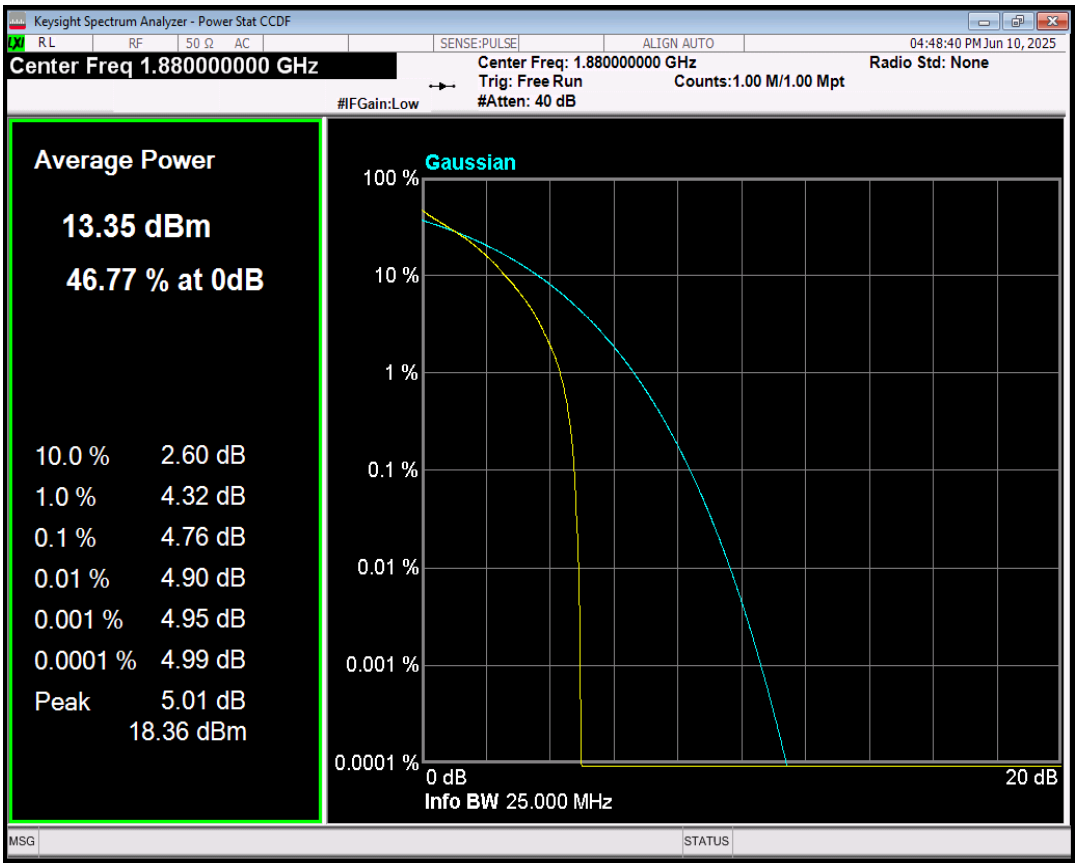


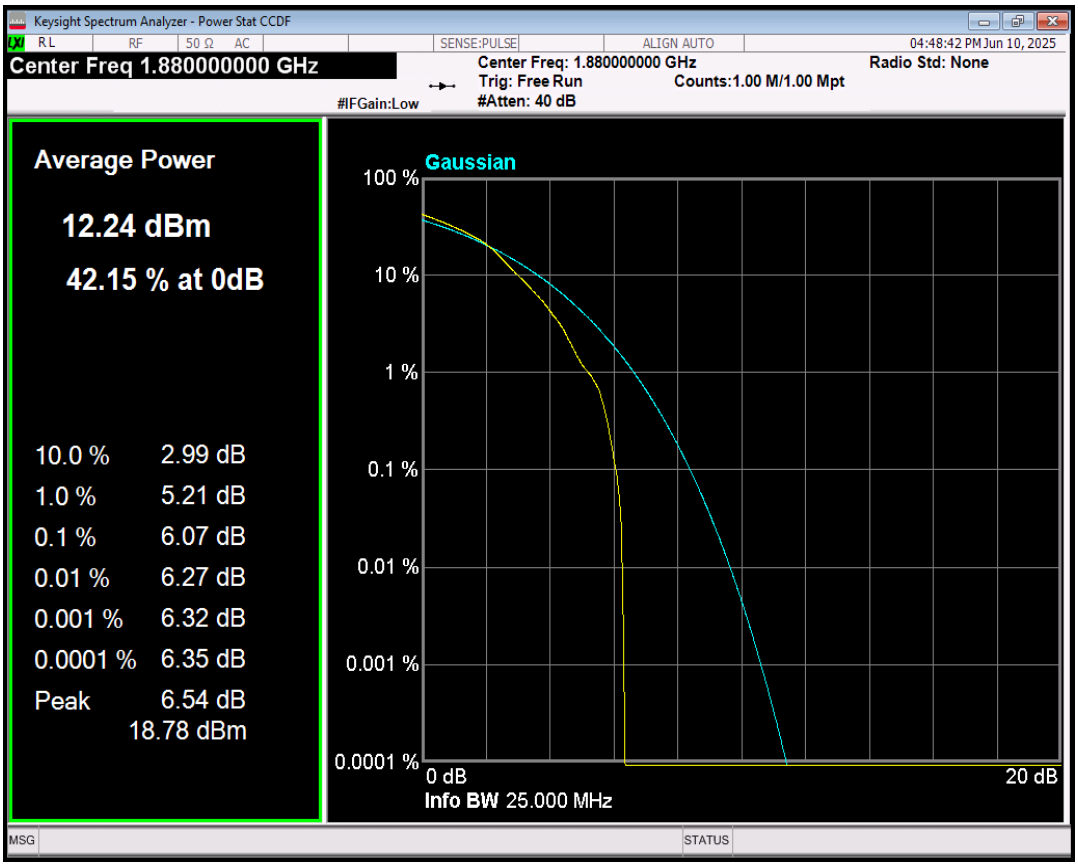
Band17 16QAM BW=10MHz Channel=23790 RB Size=1 Position=#0



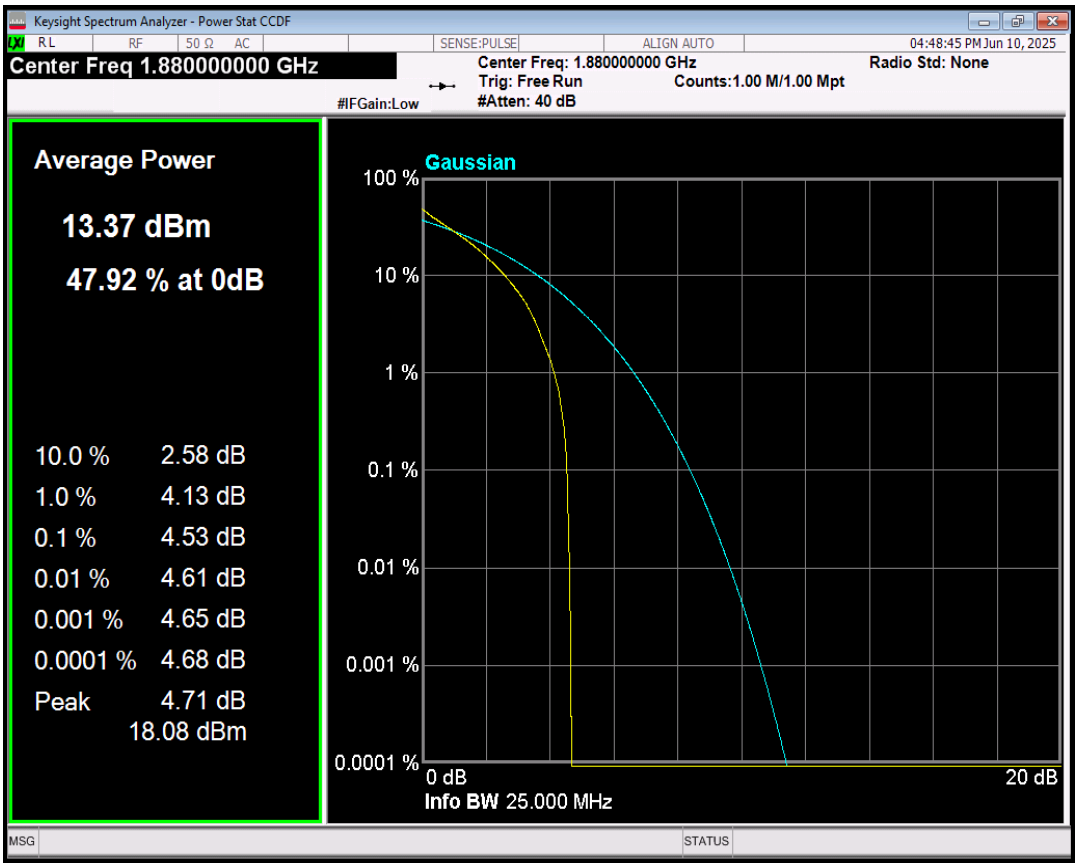
Band2 QPSK BW=1.4MHz Channel=18900 RB Size=1 Position=#0



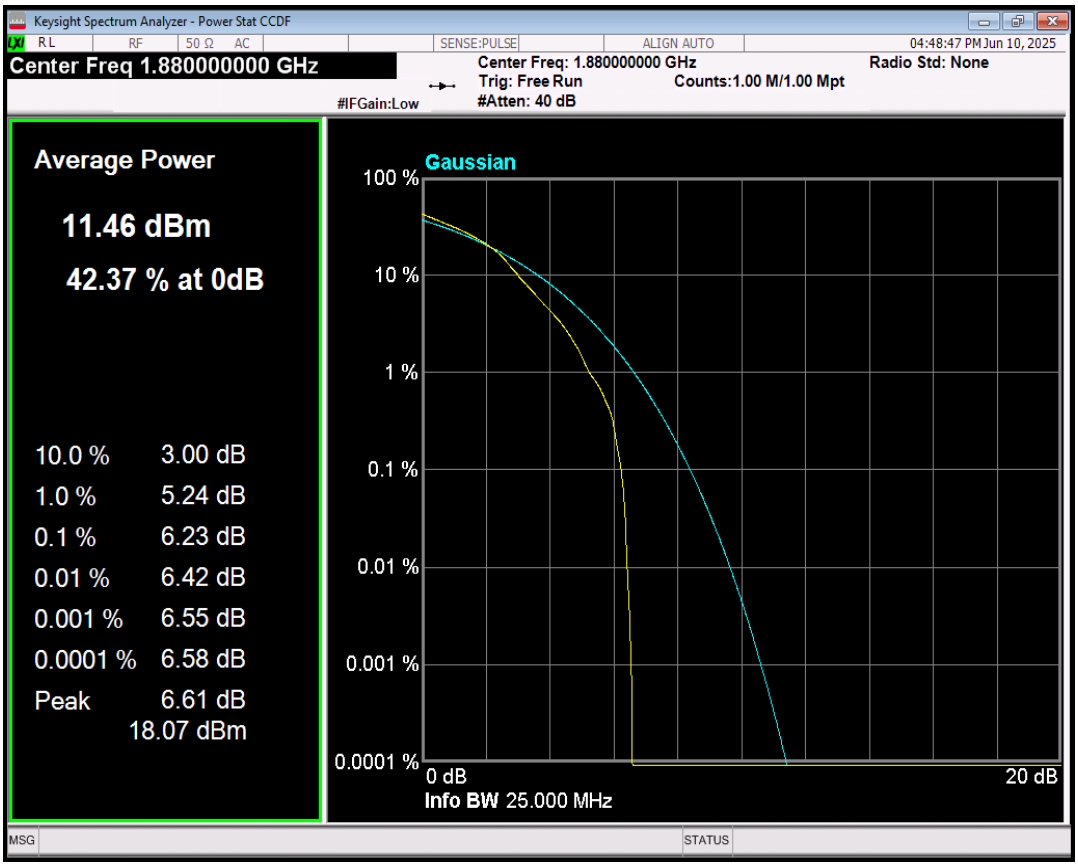
Band2 16QAM BW=1.4MHz Channel=18900 RB Size=1 Position=#0



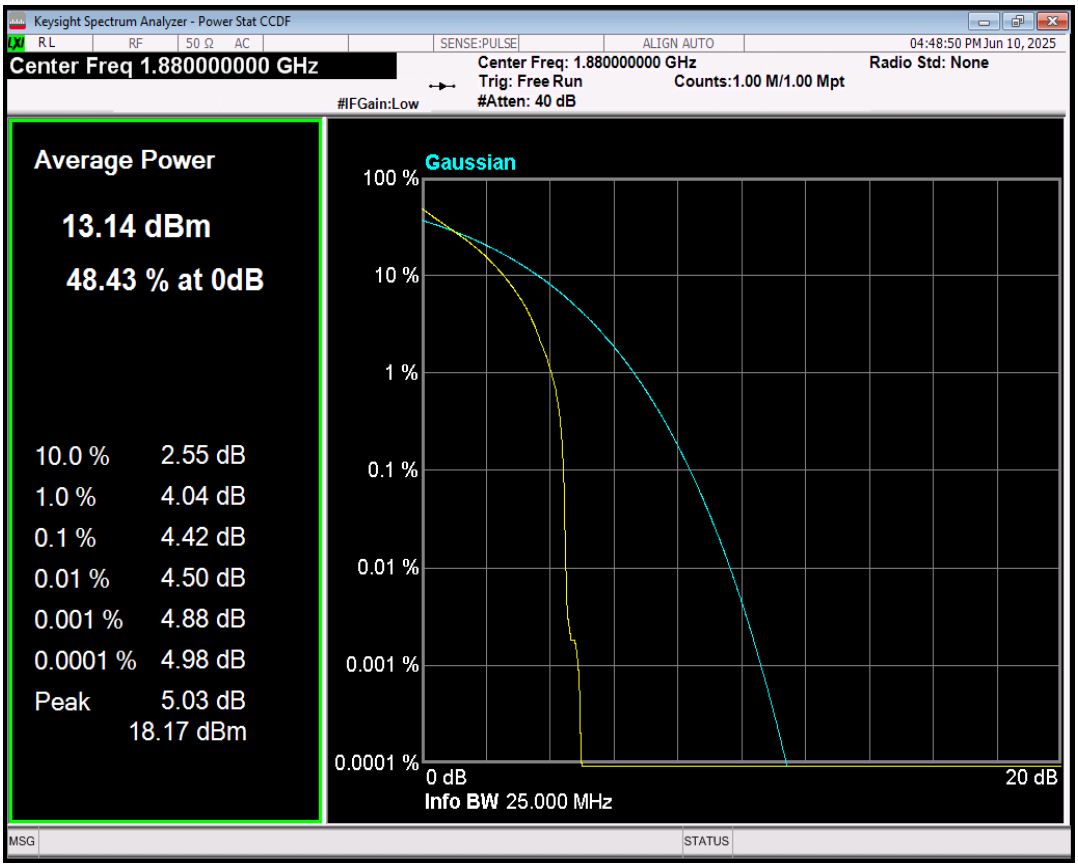
Band2 QPSK BW=3MHz Channel=18900 RB Size=1 Position=#0



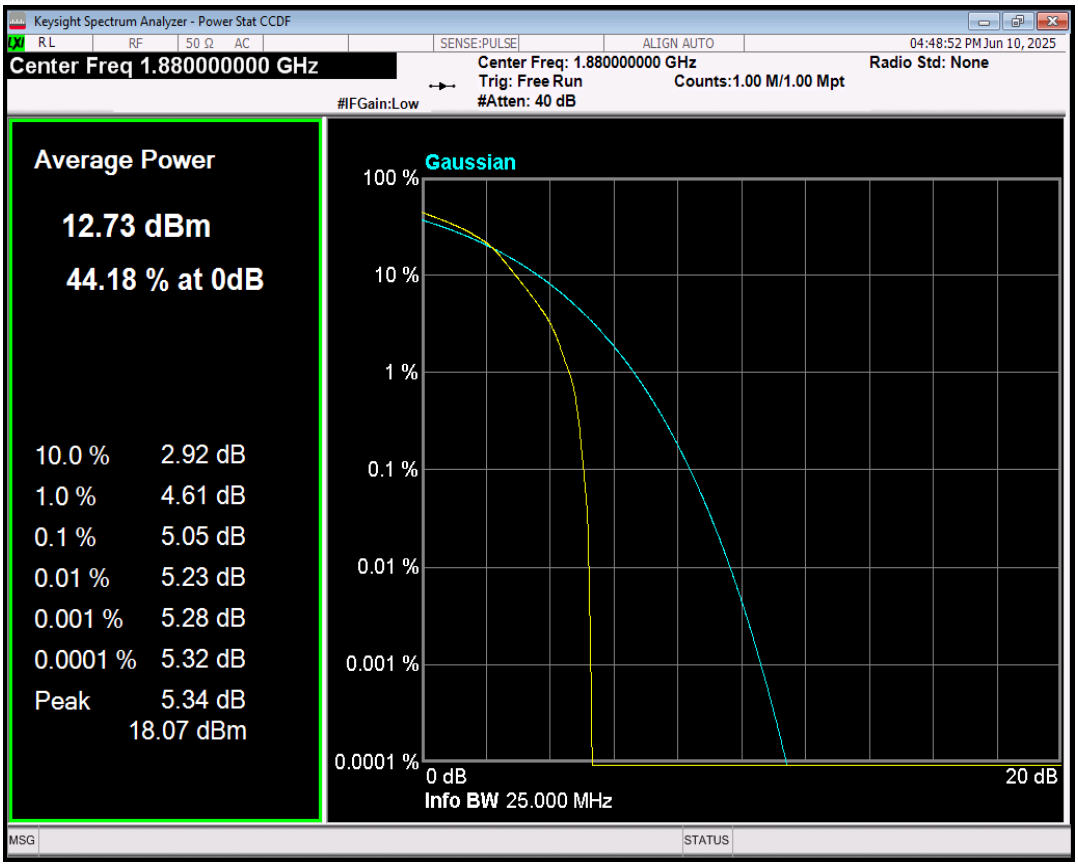
Band2 16QAM BW=3MHz Channel=18900 RB Size=1 Position=#0



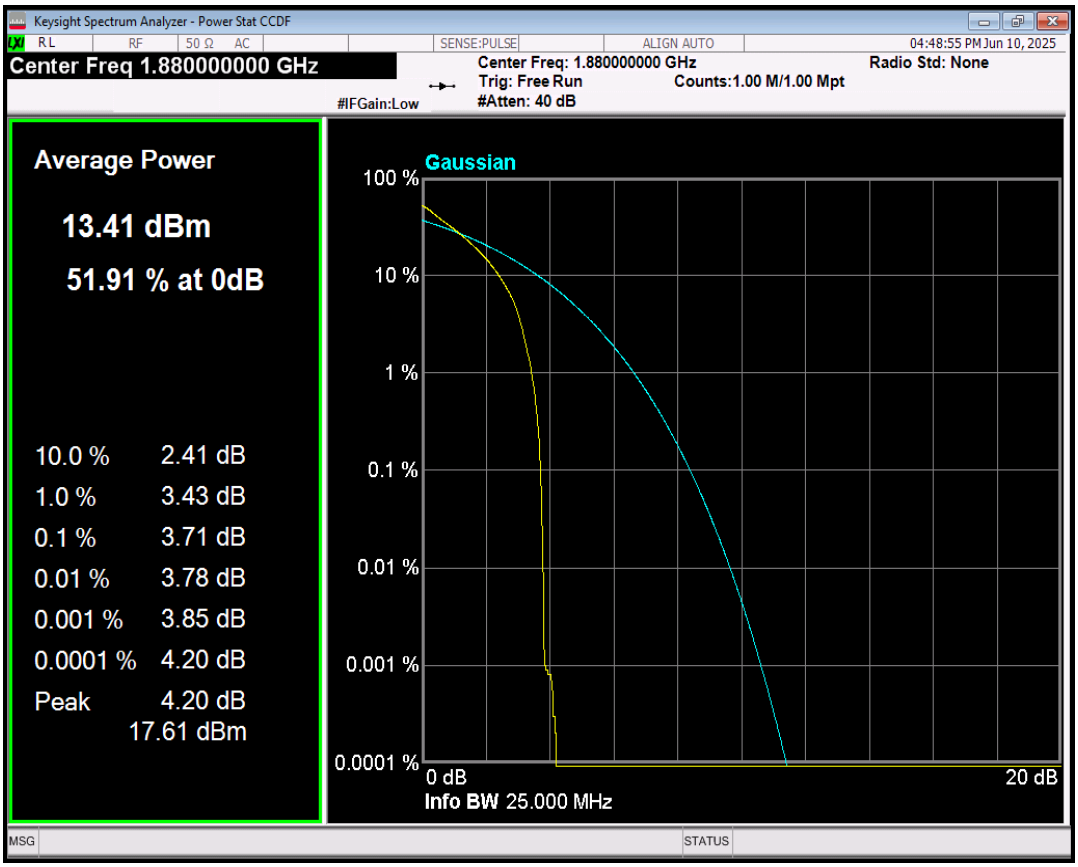
Band2 QPSK BW=5MHz Channel=18900 RB Size=1 Position=#0



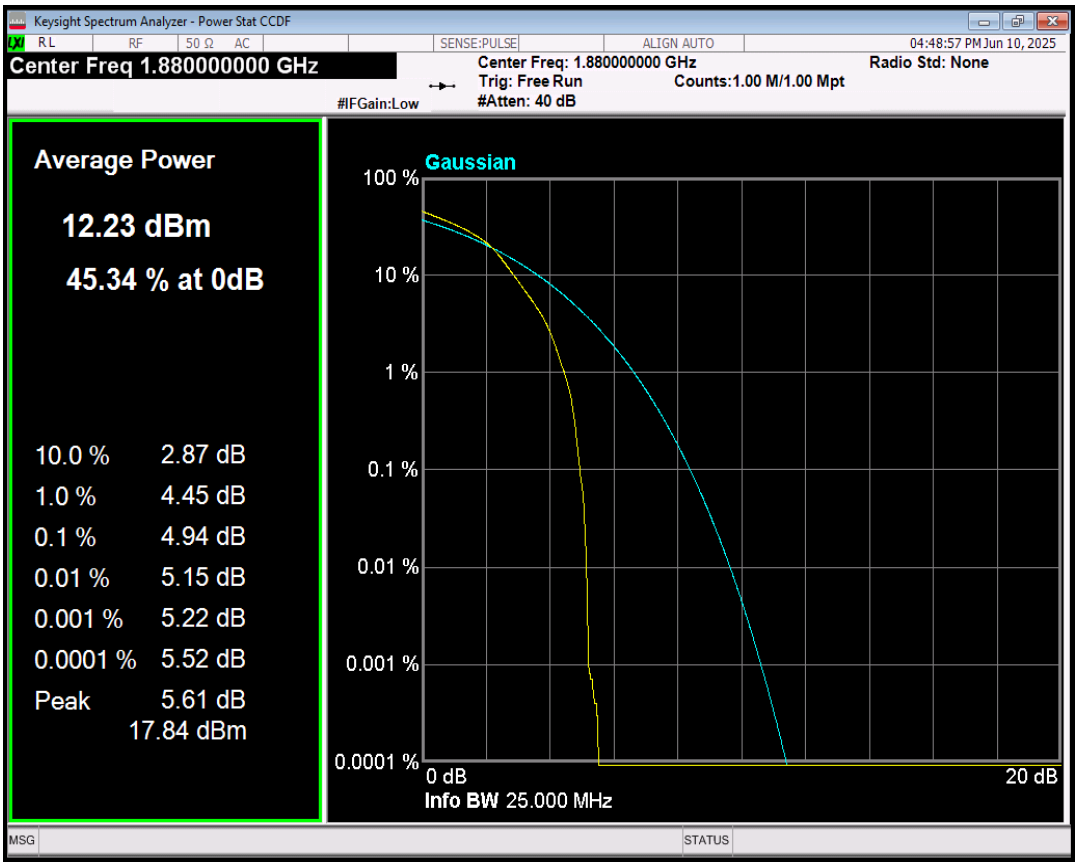
Band2 16QAM BW=5MHz Channel=18900 RB Size=1 Position=#0



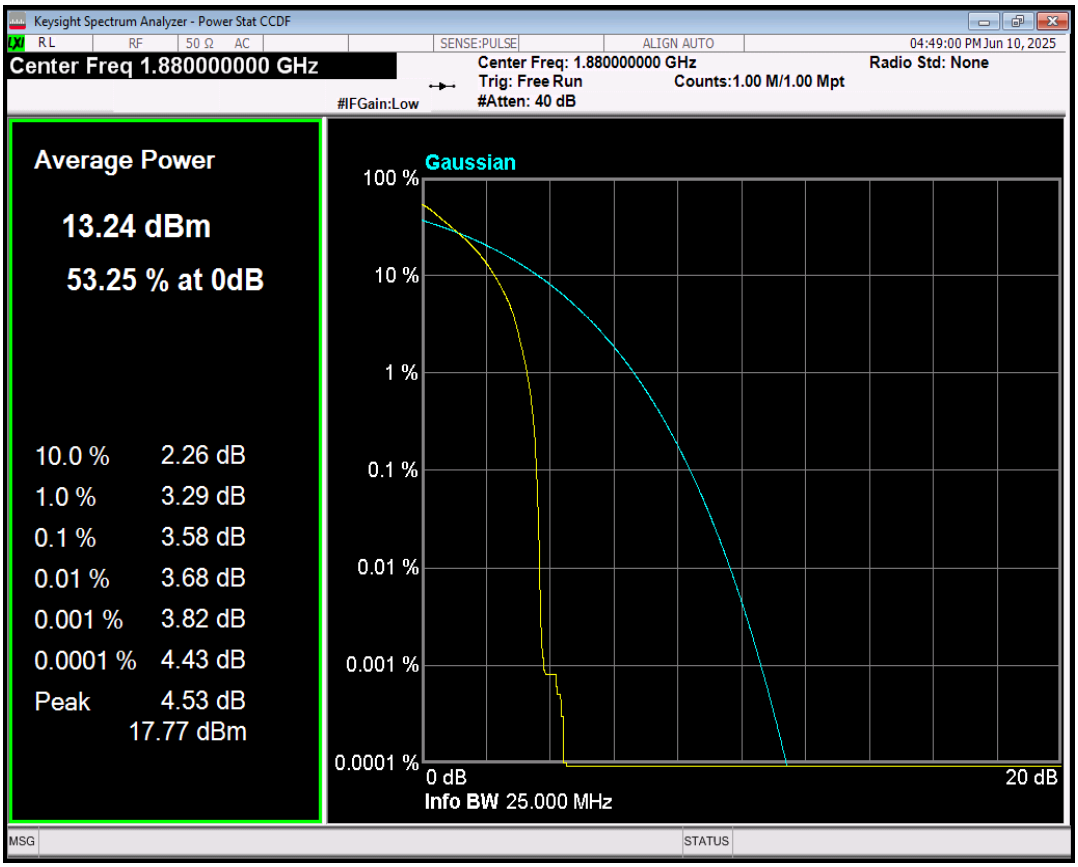
Band2 QPSK BW=10MHz Channel=18900 RB Size=1 Position=#0



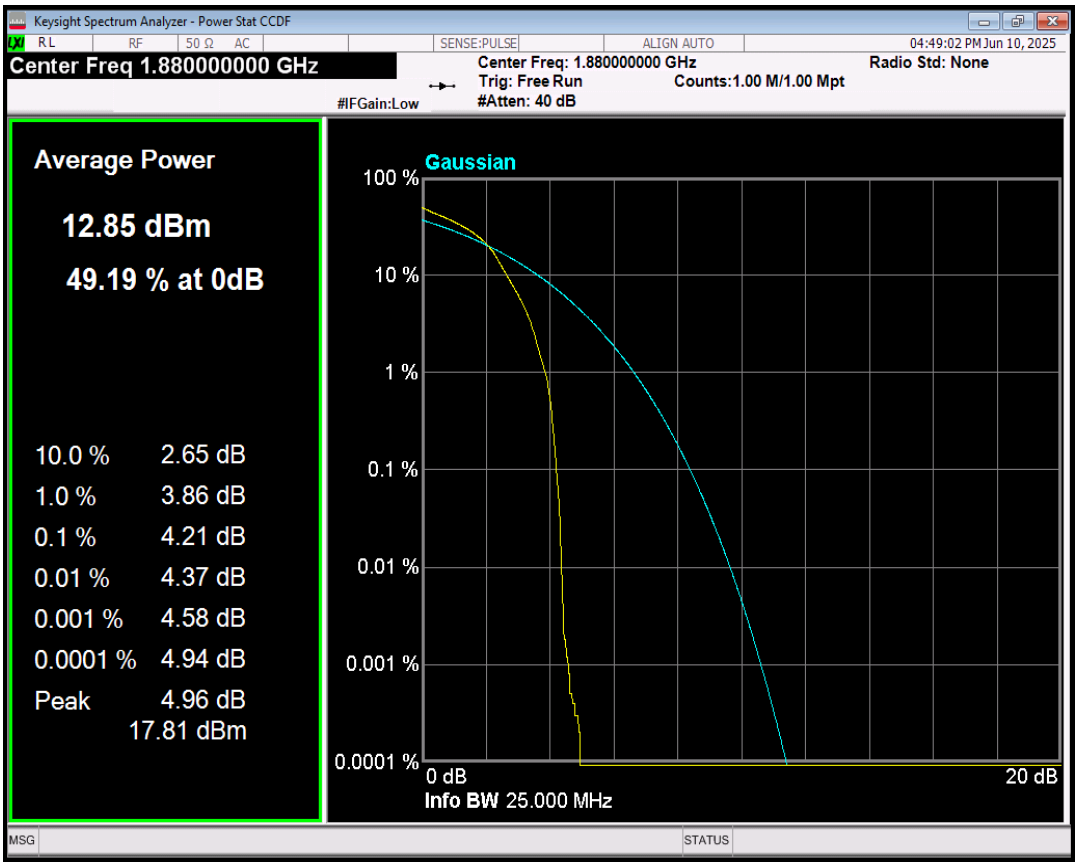
Band2 16QAM BW=10MHz Channel=18900 RB Size=1 Position=#0



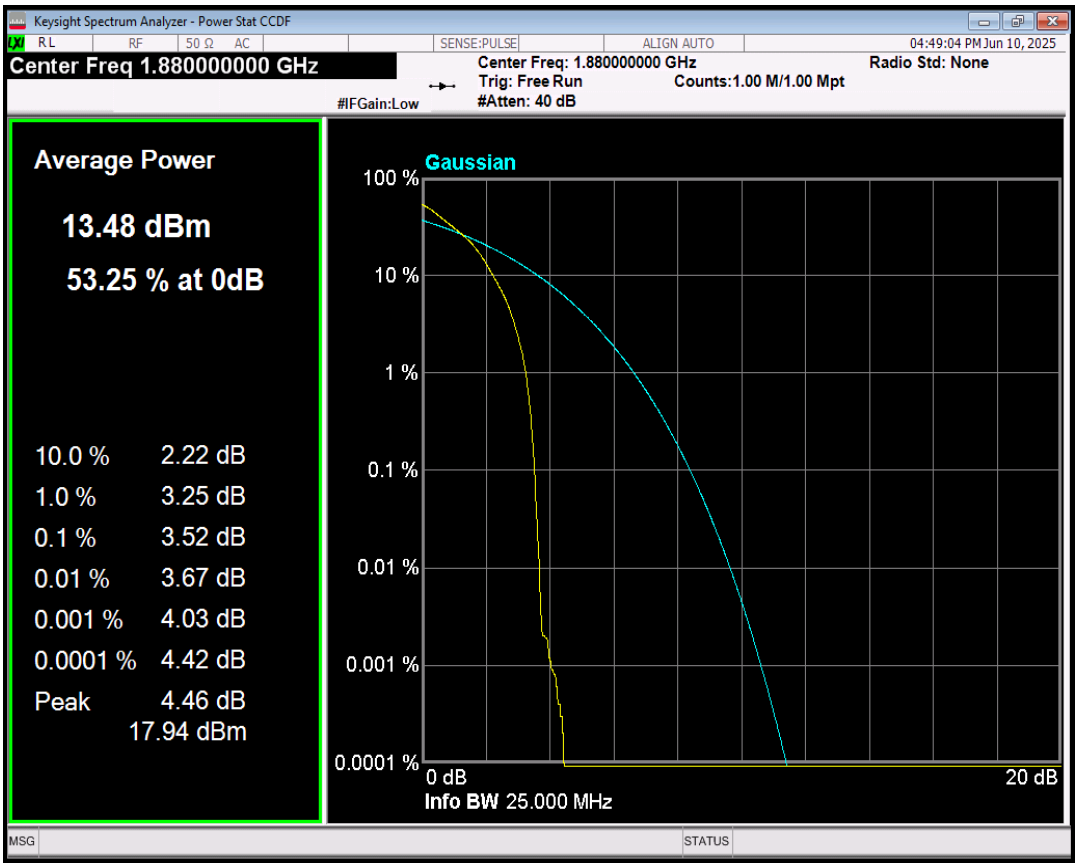
Band2 QPSK BW=15MHz Channel=18900 RB Size=1 Position=#0



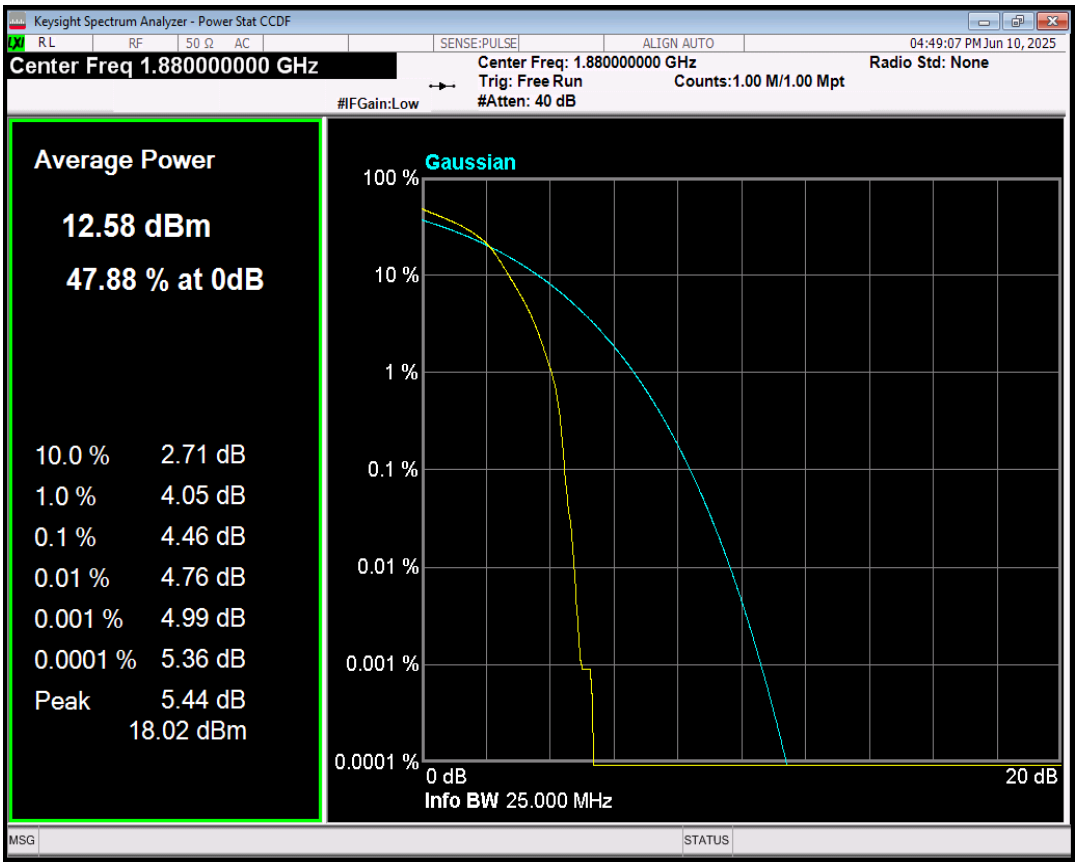
Band2 16QAM BW=15MHz Channel=18900 RB Size=1 Position=#0



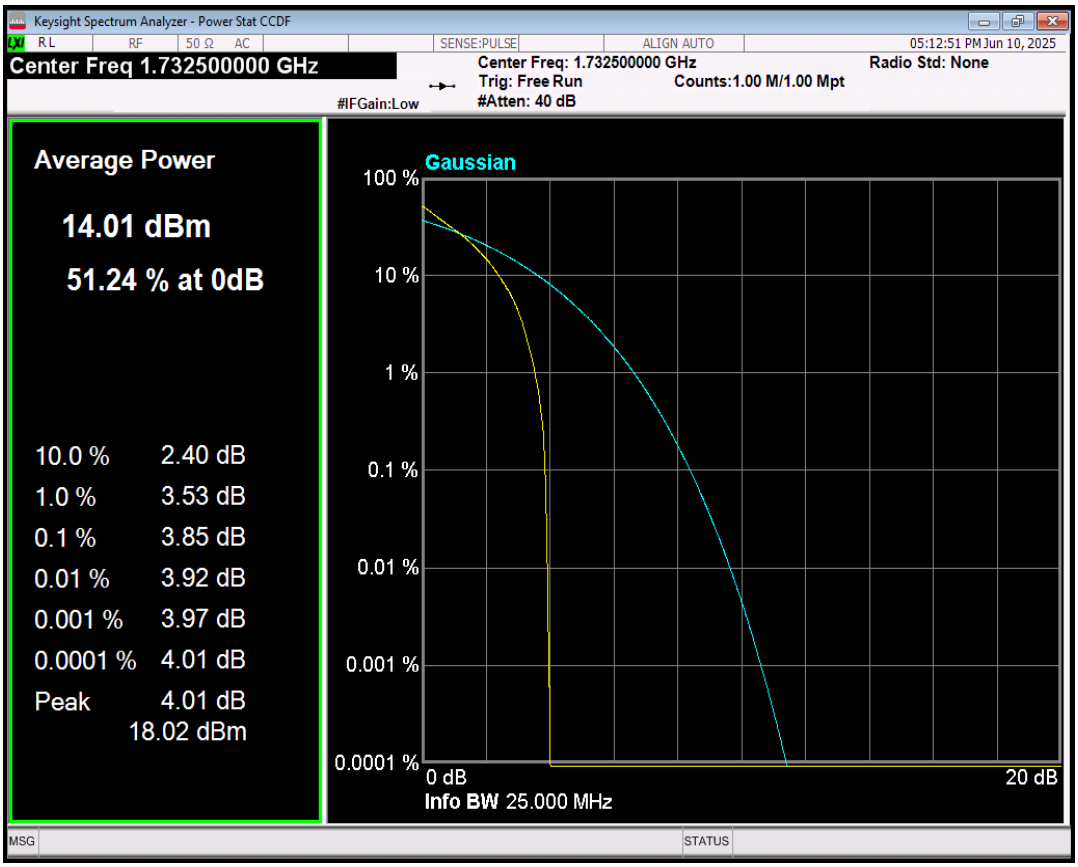
Band2 QPSK BW=20MHz Channel=18900 RB Size=1 Position=#0



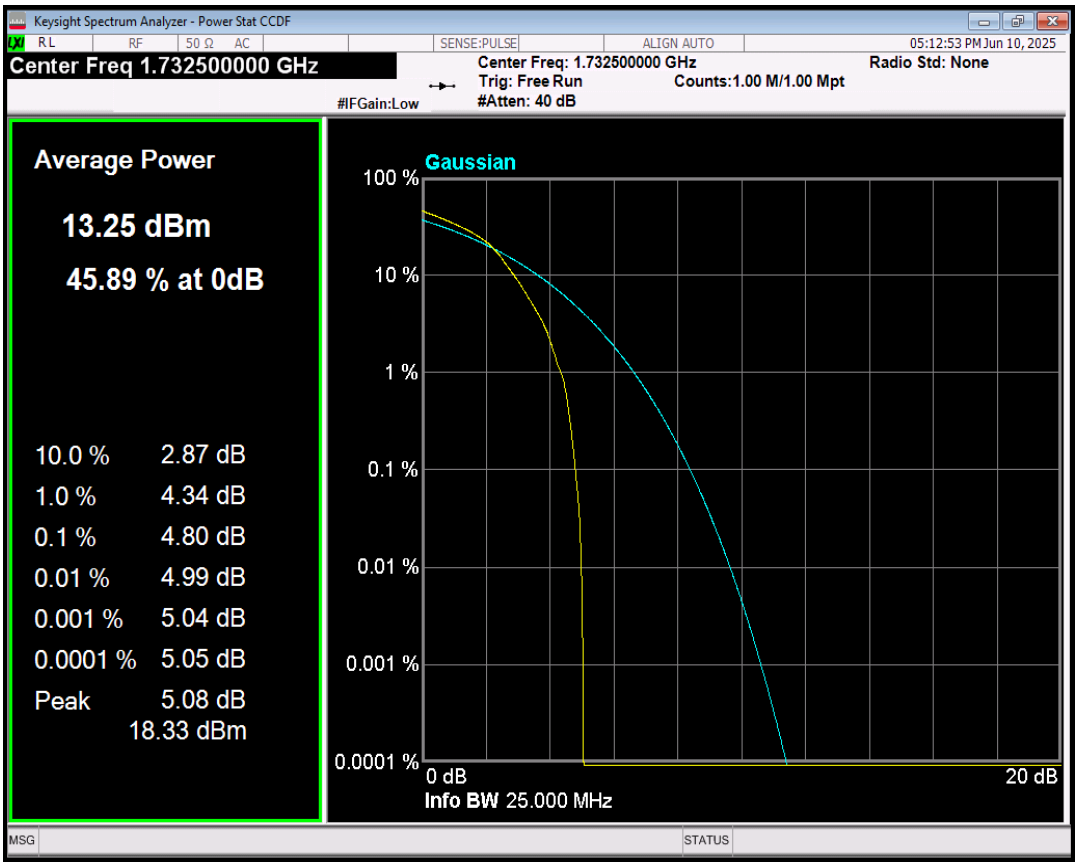
Band2 16QAM BW=20MHz Channel=18900 RB Size=1 Position=#0



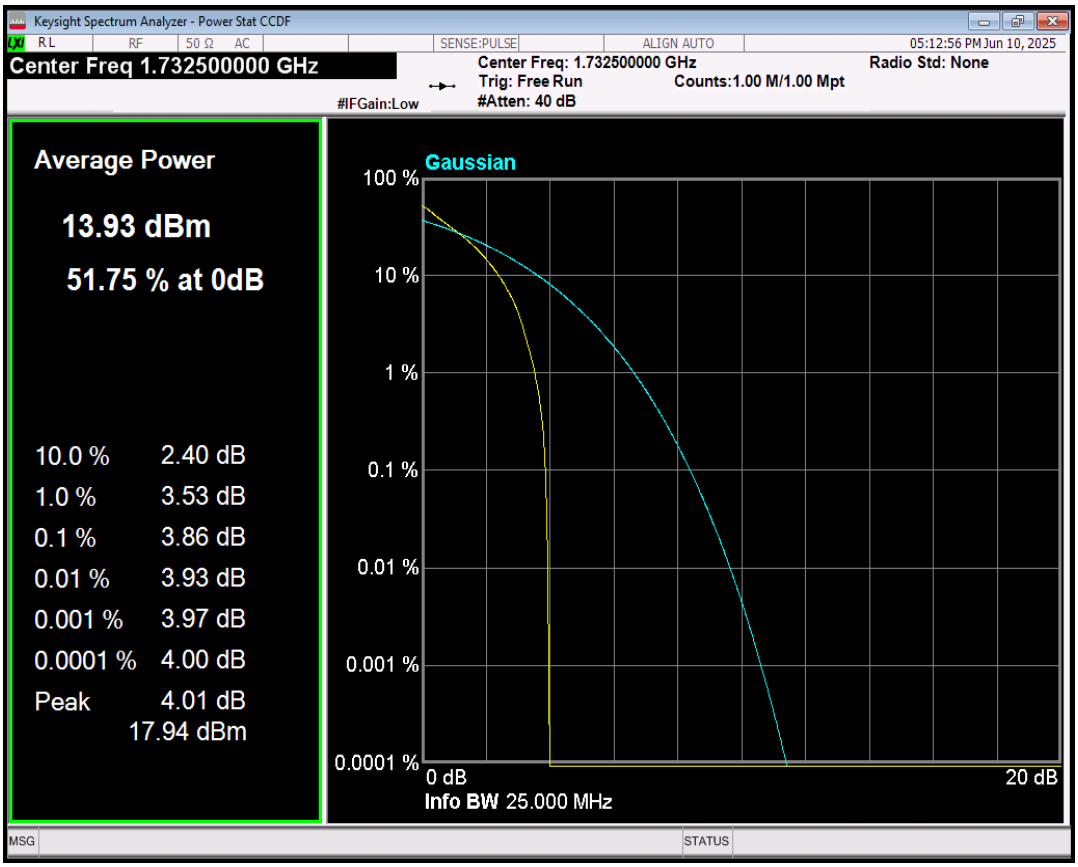
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=1 Position=#0



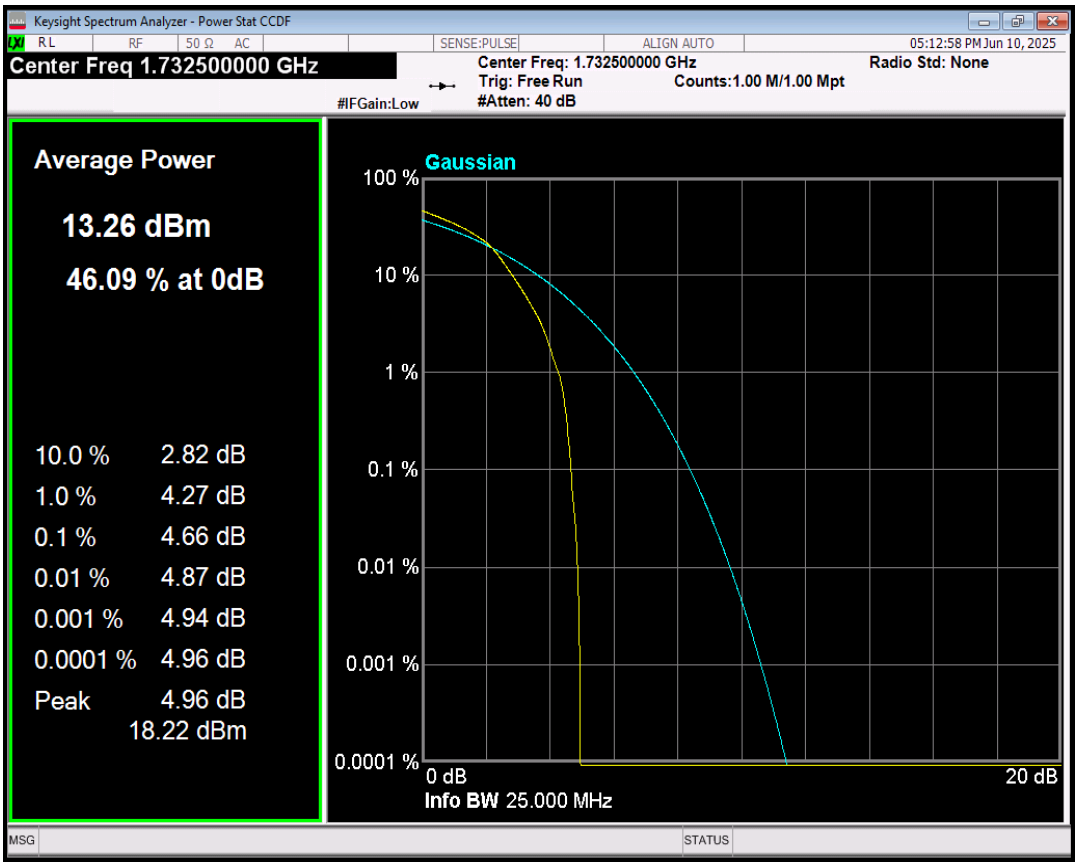
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=1 Position=#0



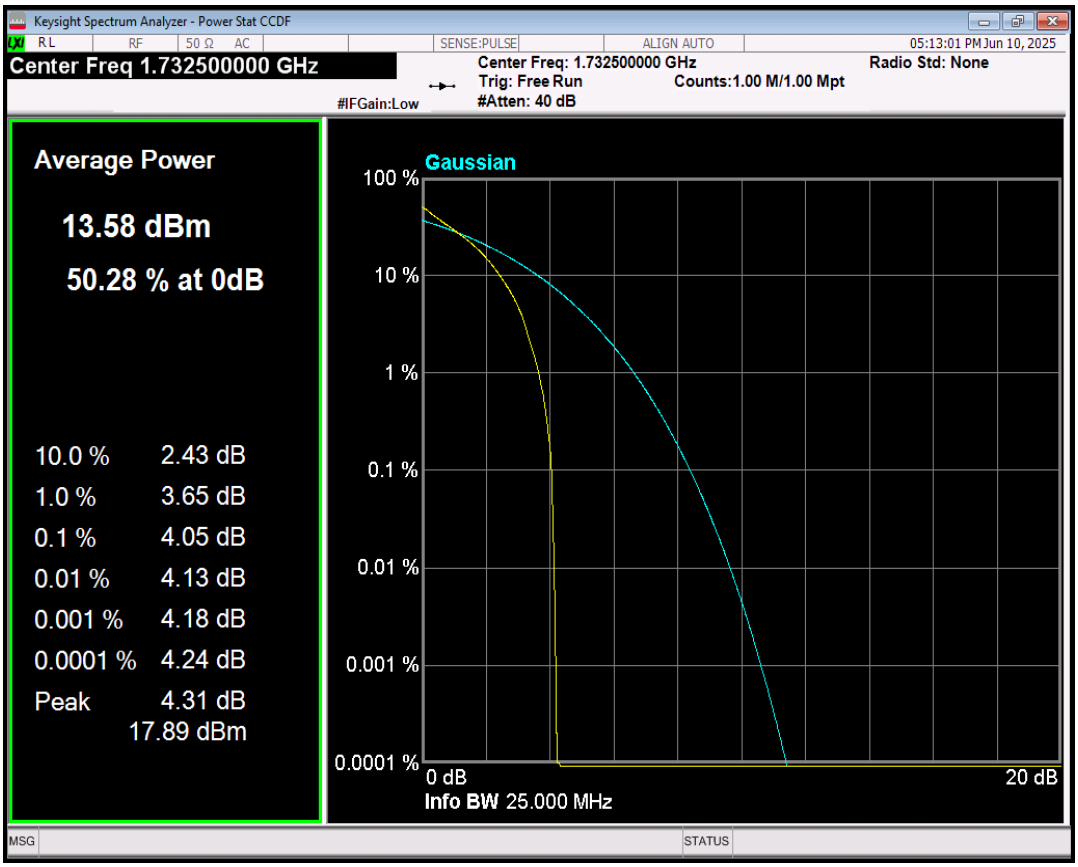
Band4 QPSK BW=3MHz Channel=20175 RB Size=1 Position=#0



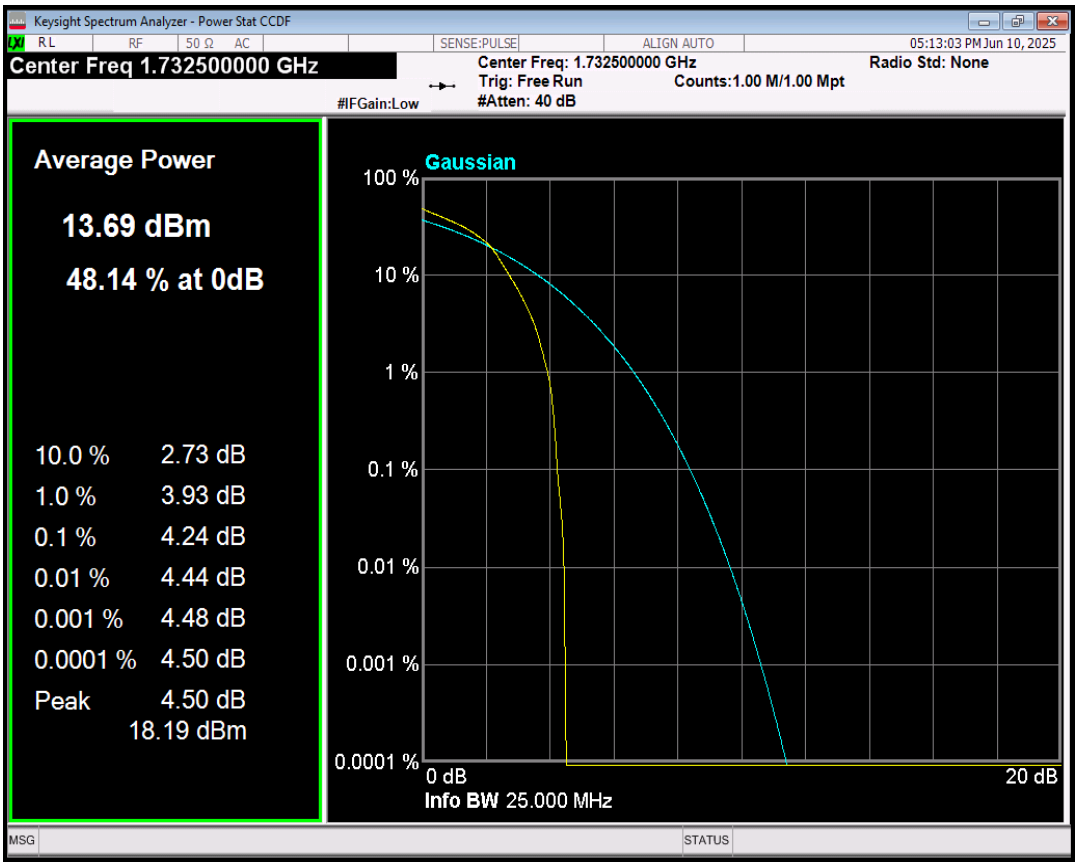
Band4 16QAM BW=3MHz Channel=20175 RB Size=1 Position=#0



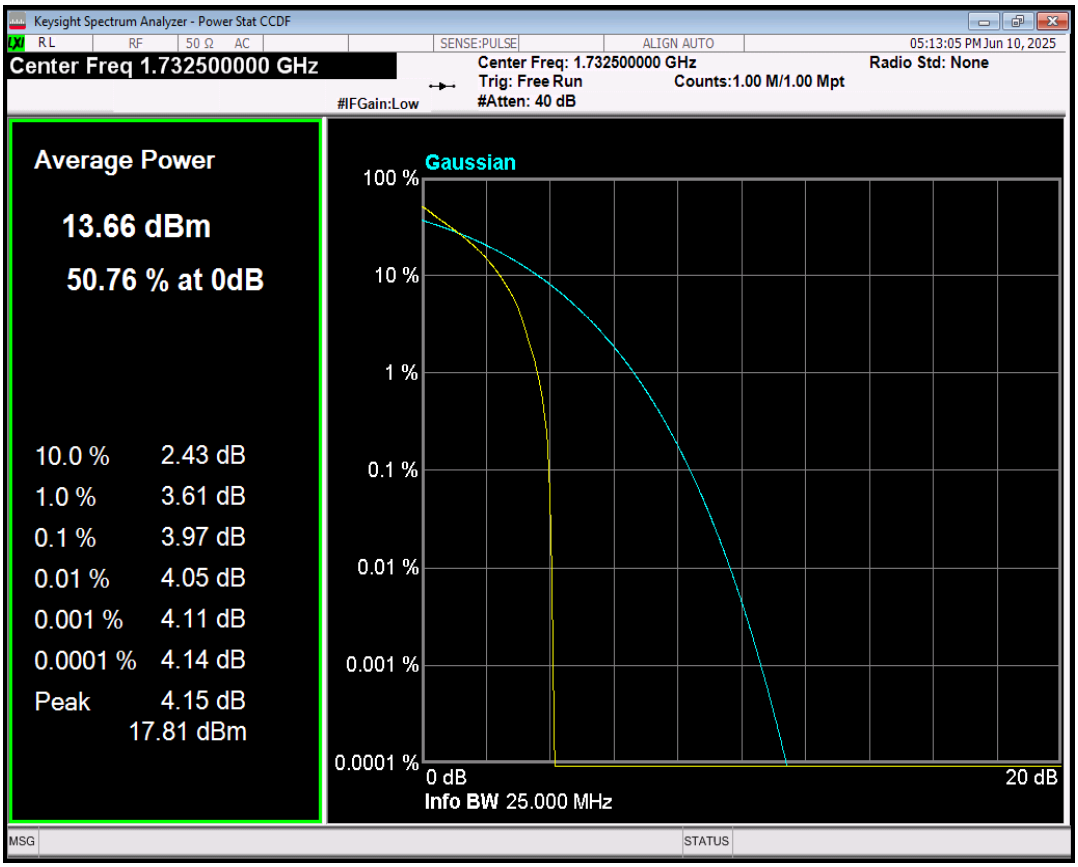
Band4 QPSK BW=5MHz Channel=20175 RB Size=1 Position=#0



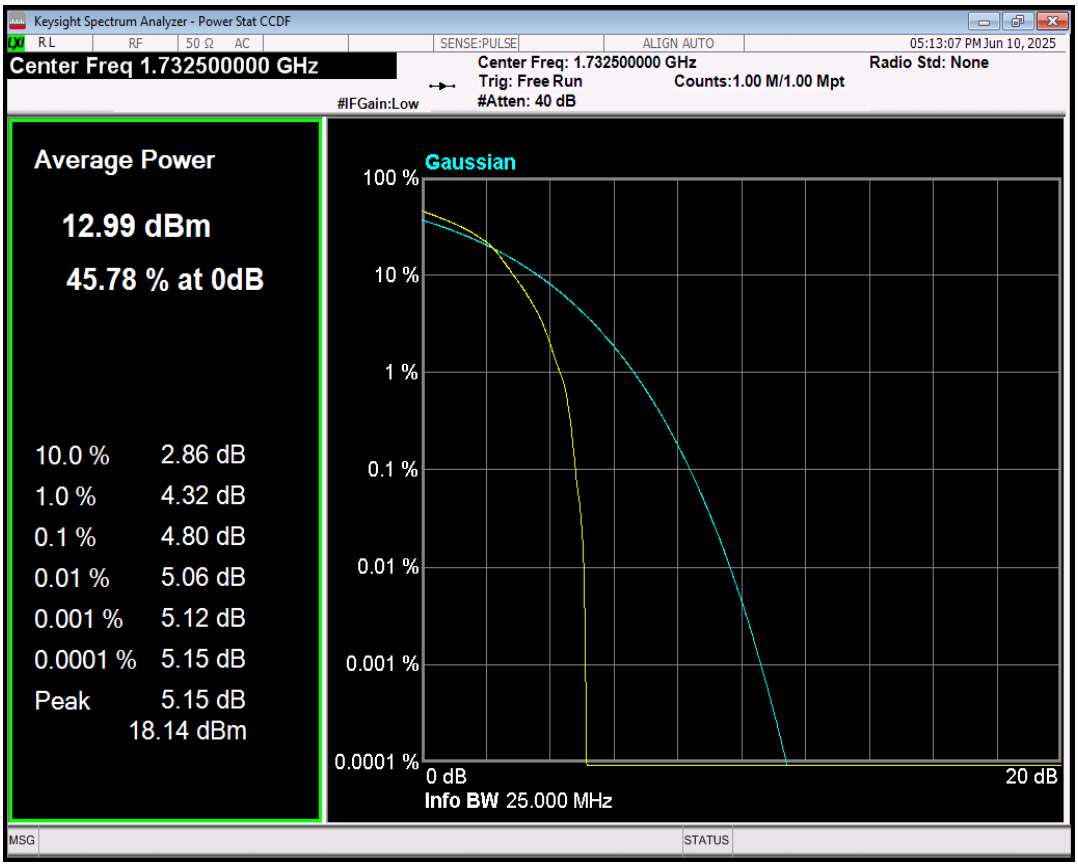
Band4 16QAM BW=5MHz Channel=20175 RB Size=1 Position=#0



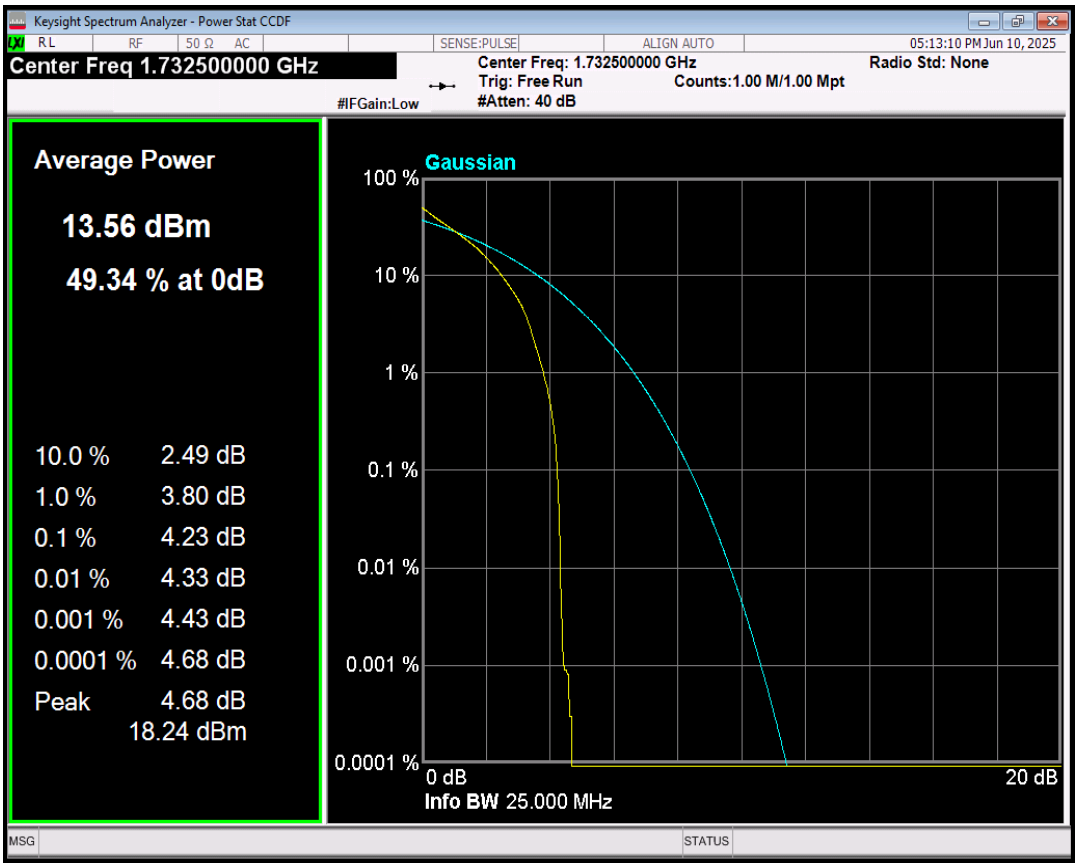
Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0



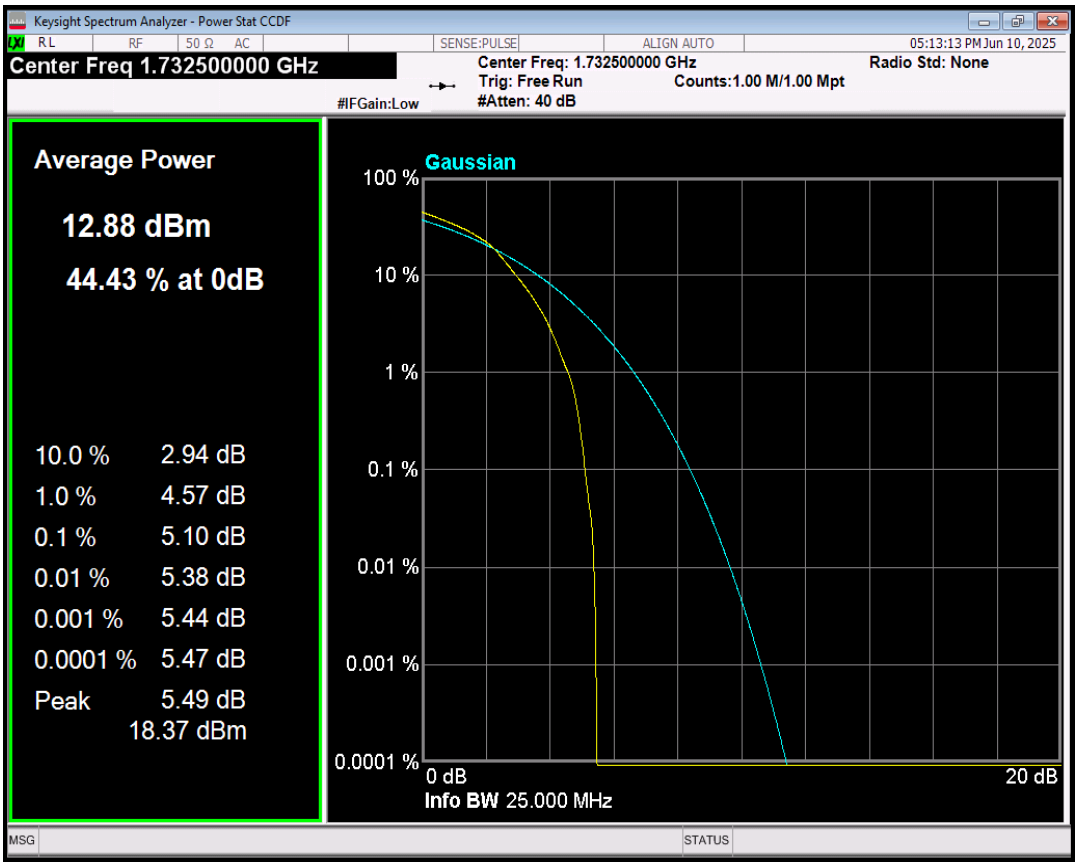
Band4 16QAM BW=10MHz Channel=20175 RB Size=1 Position=#0



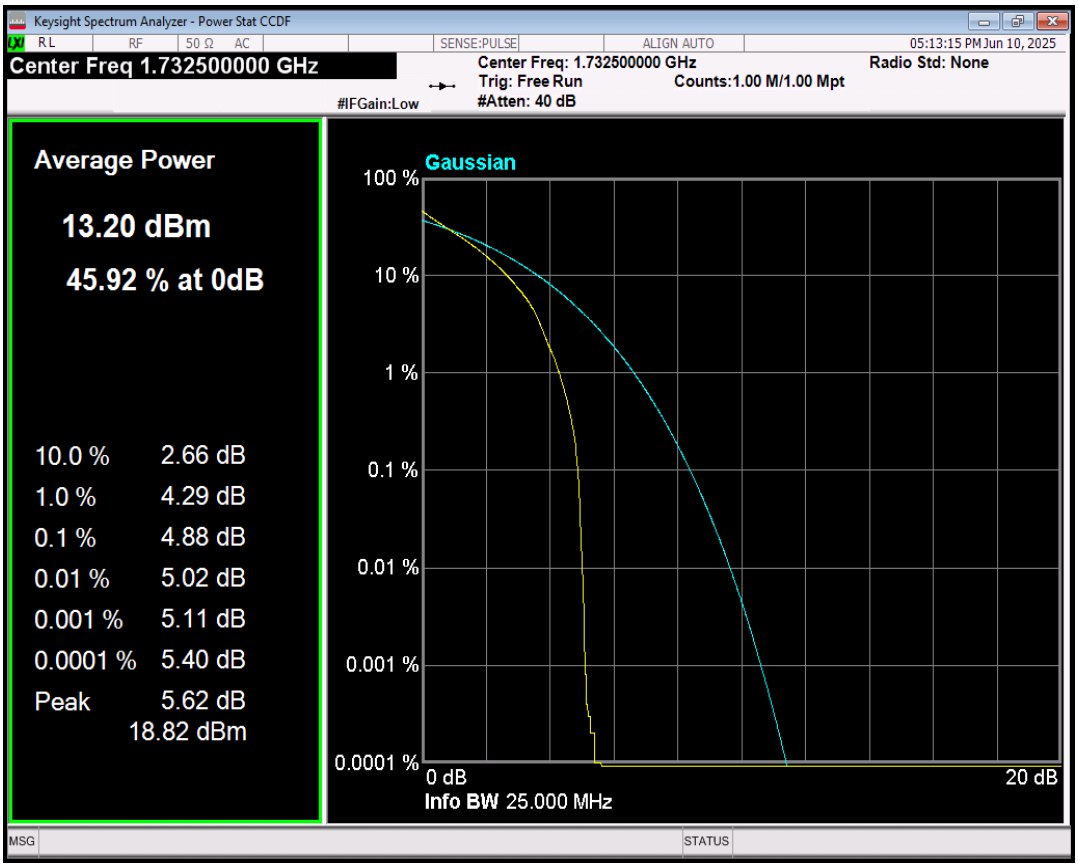
Band4 QPSK BW=15MHz Channel=20175 RB Size=1 Position=#0



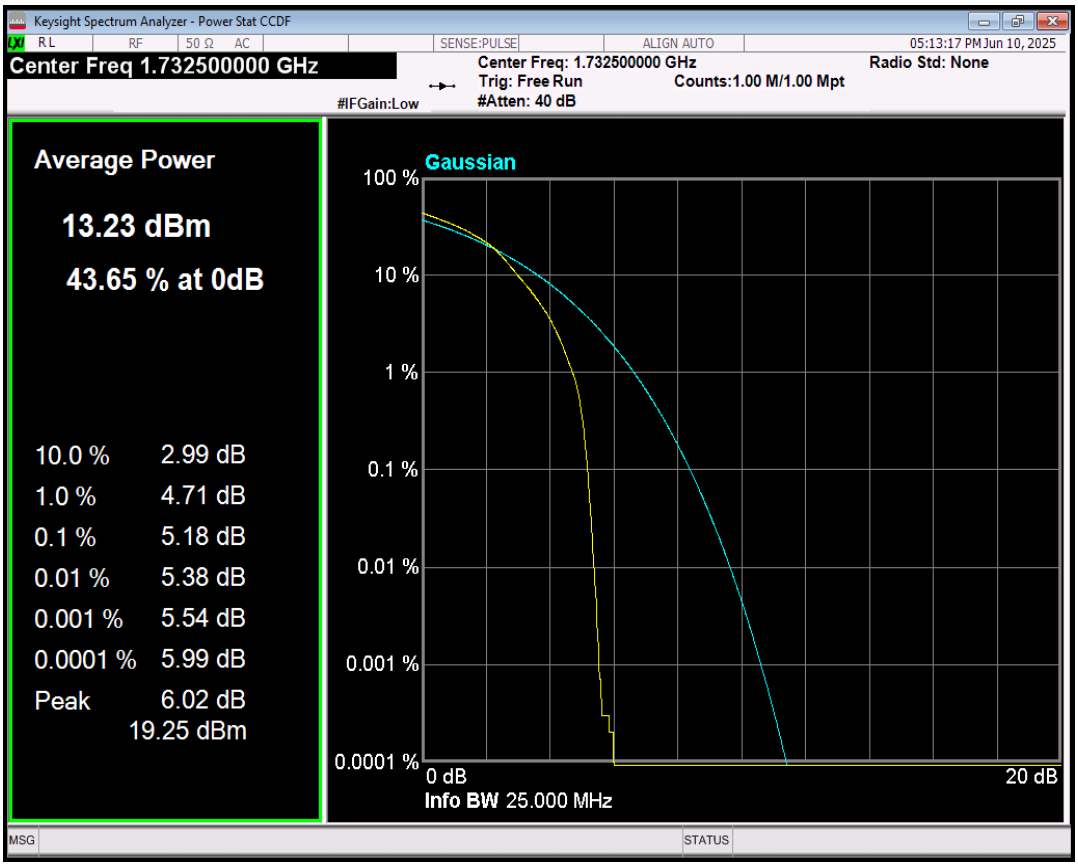
Band4 16QAM BW=15MHz Channel=20175 RB Size=1 Position=#0



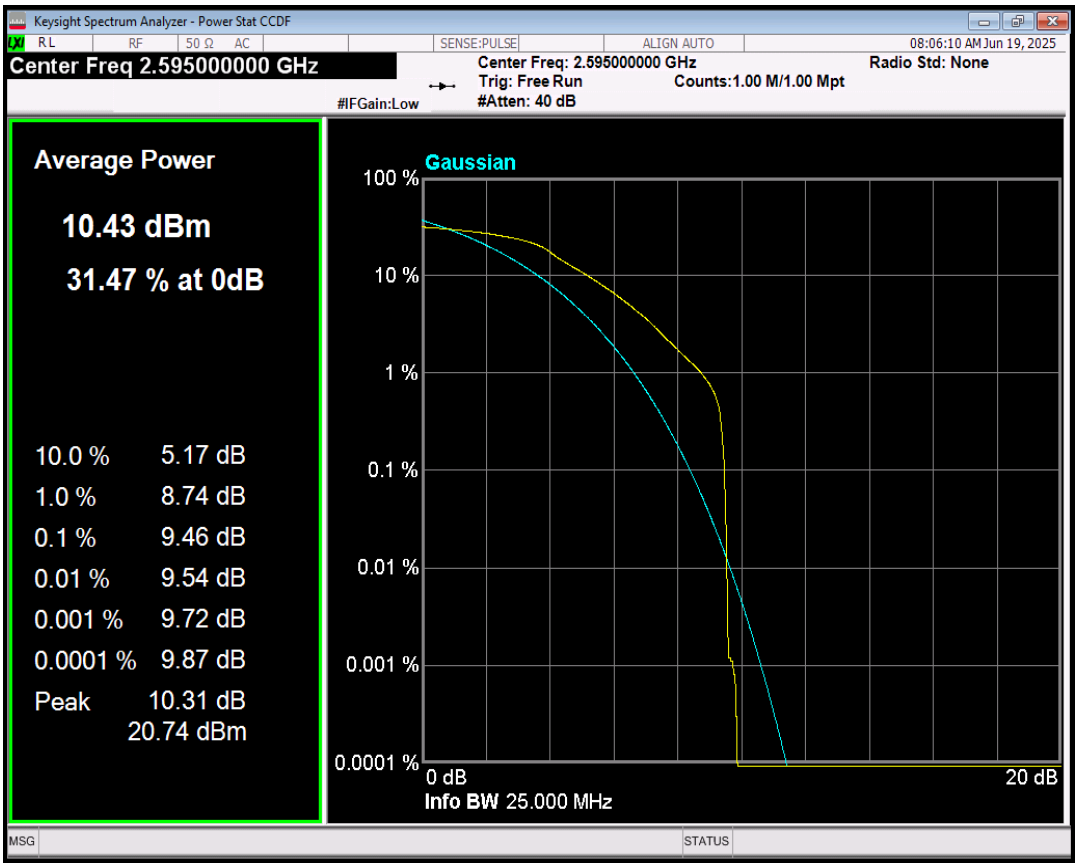
Band4 QPSK BW=20MHz Channel=20175 RB Size=1 Position=#0



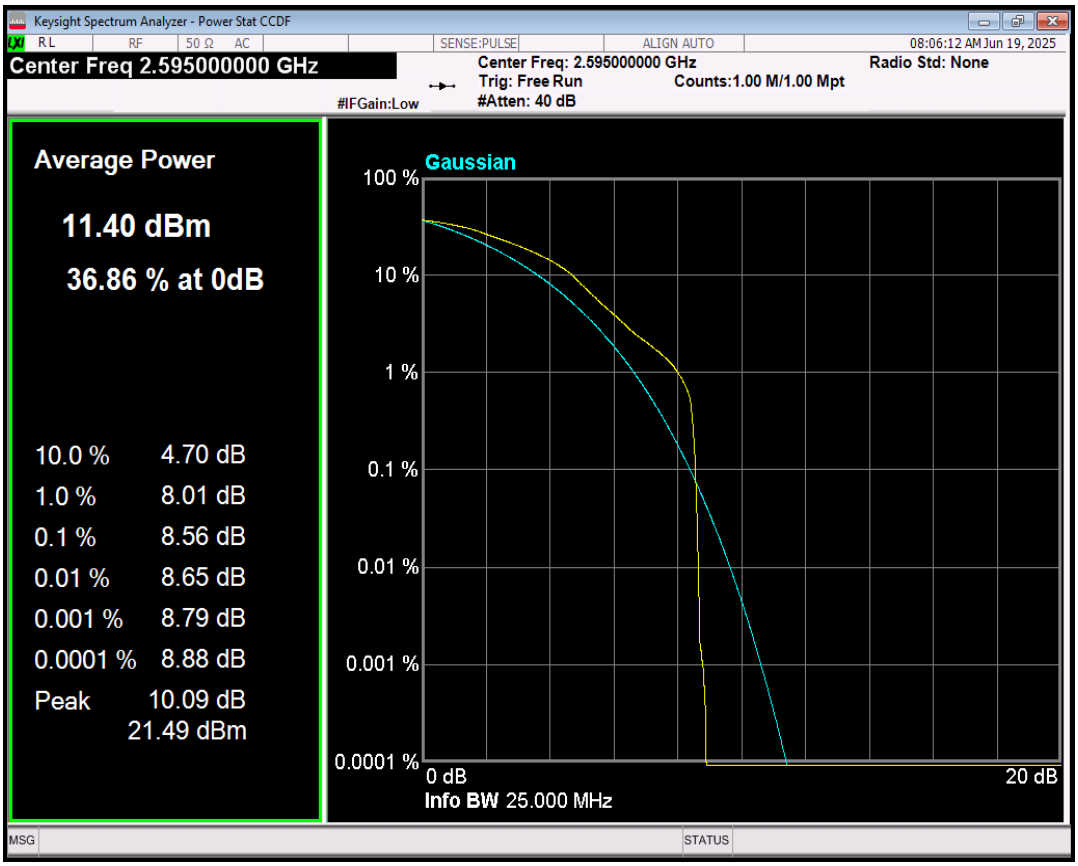
Band4 16QAM BW=20MHz Channel=20175 RB Size=1 Position=#0



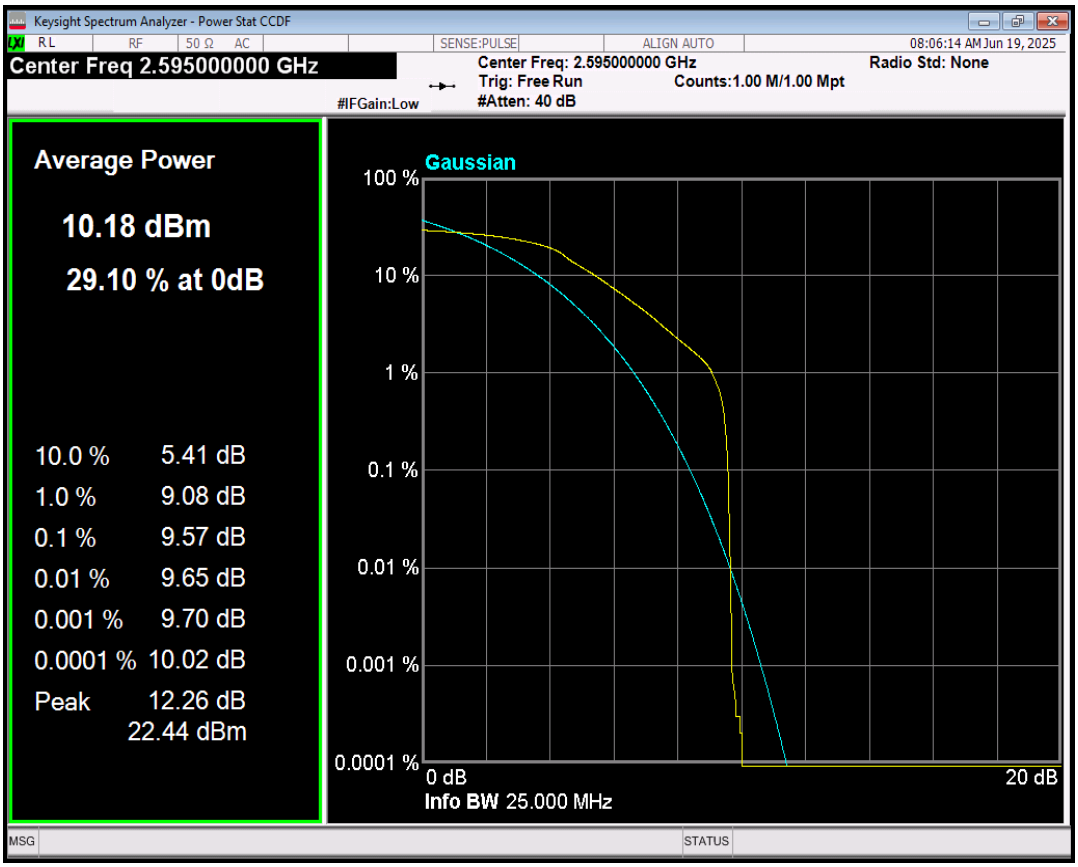
Band41(2535-2655) QPSK BW=5MHz Channel=40640 RB Size=1 Position=#0



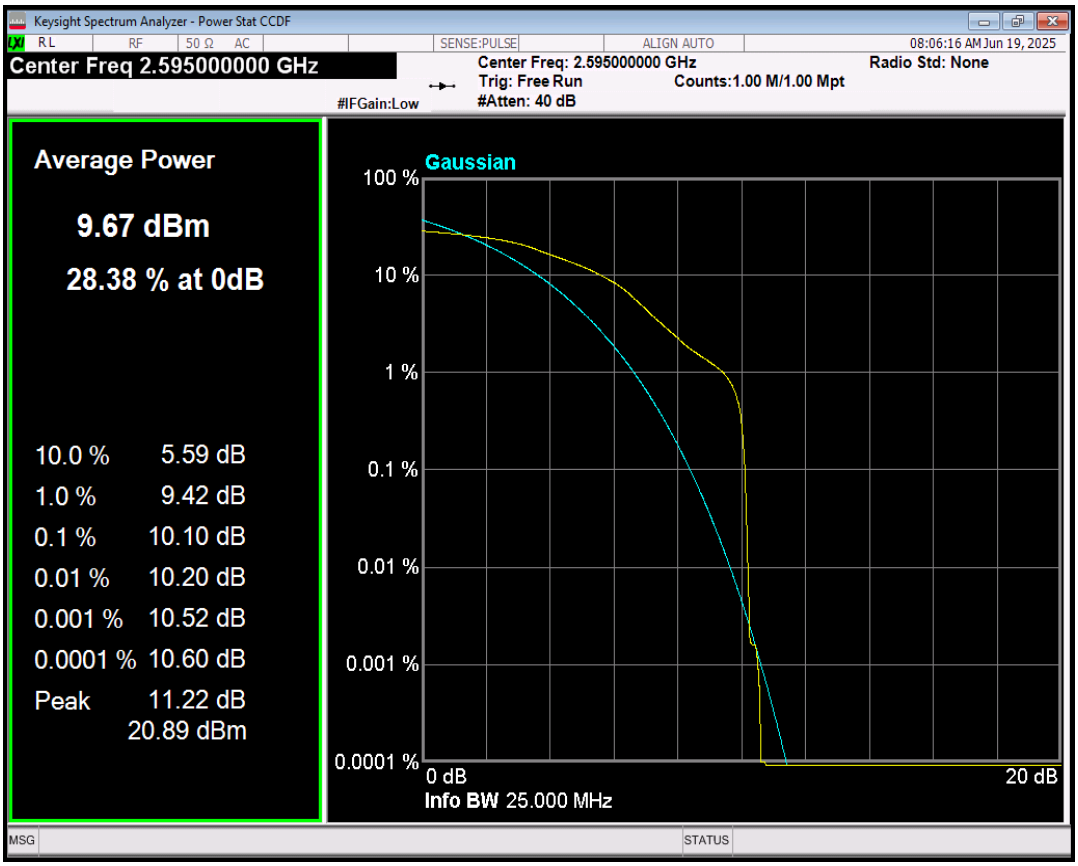
Band41(2535-2655) 16QAM BW=5MHz Channel=40640 RB Size=1 Position=#0



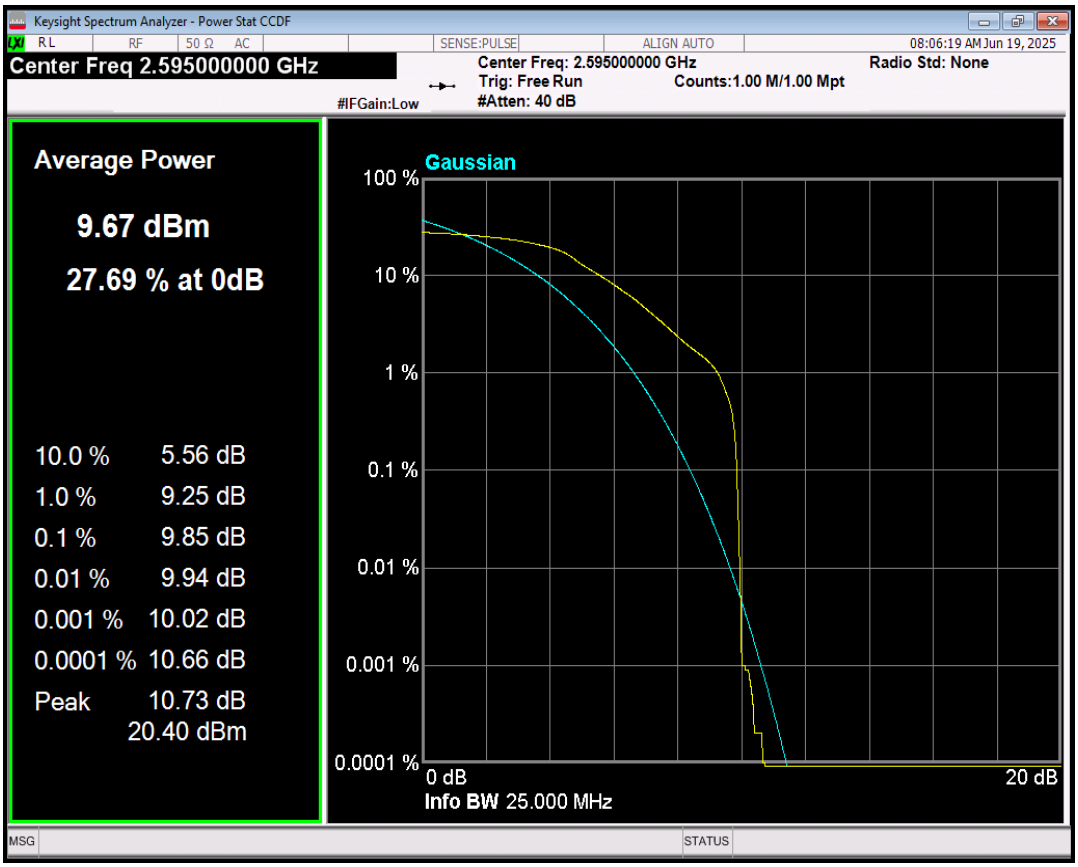
Band41(2535-2655) QPSK BW=10MHz Channel=40640 RB Size=1 Position=#0



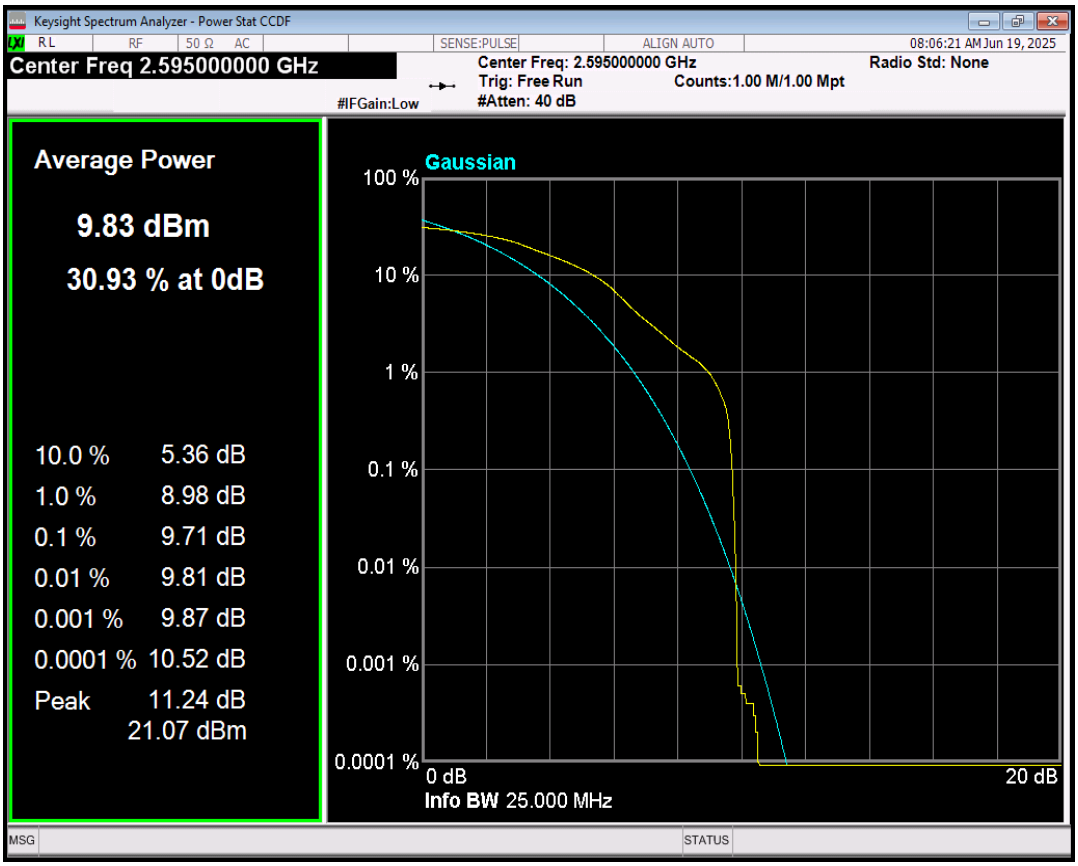
Band41(2535-2655) 16QAM BW=10MHz Channel=40640 RB Size=1 Position=#0



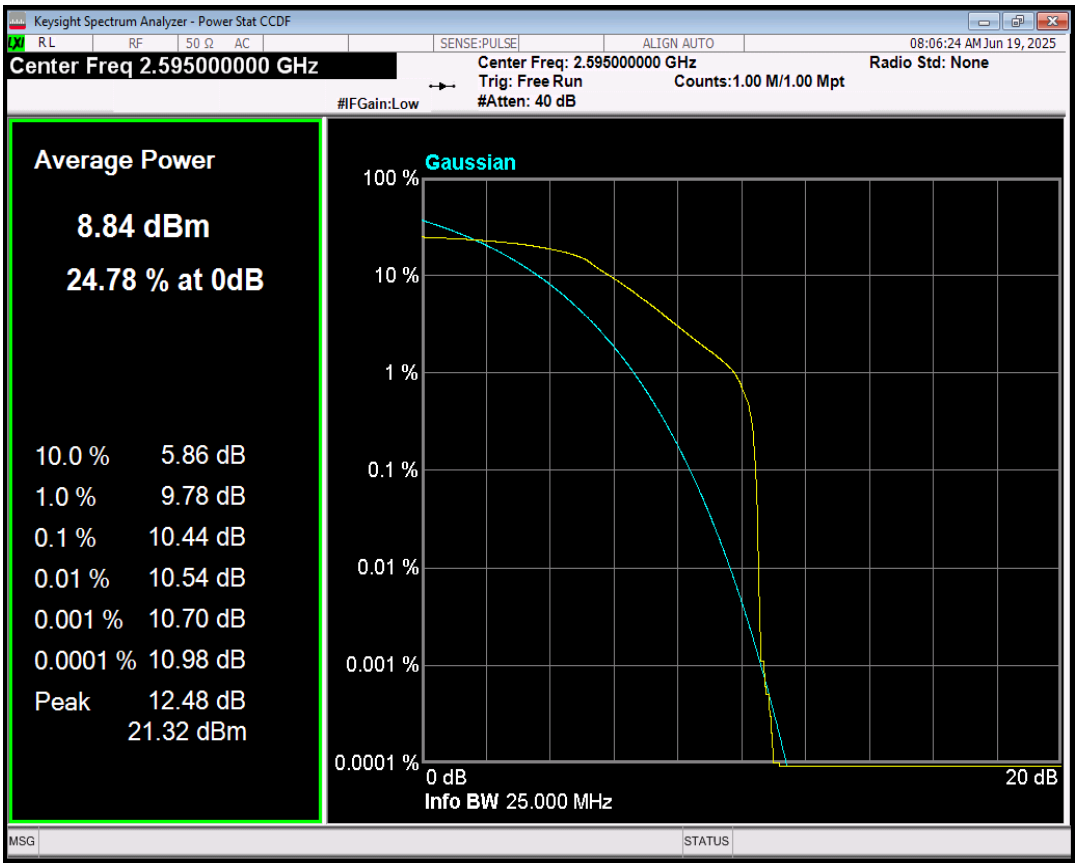
Band41(2535-2655) QPSK BW=15MHz Channel=40640 RB Size=1 Position=#0



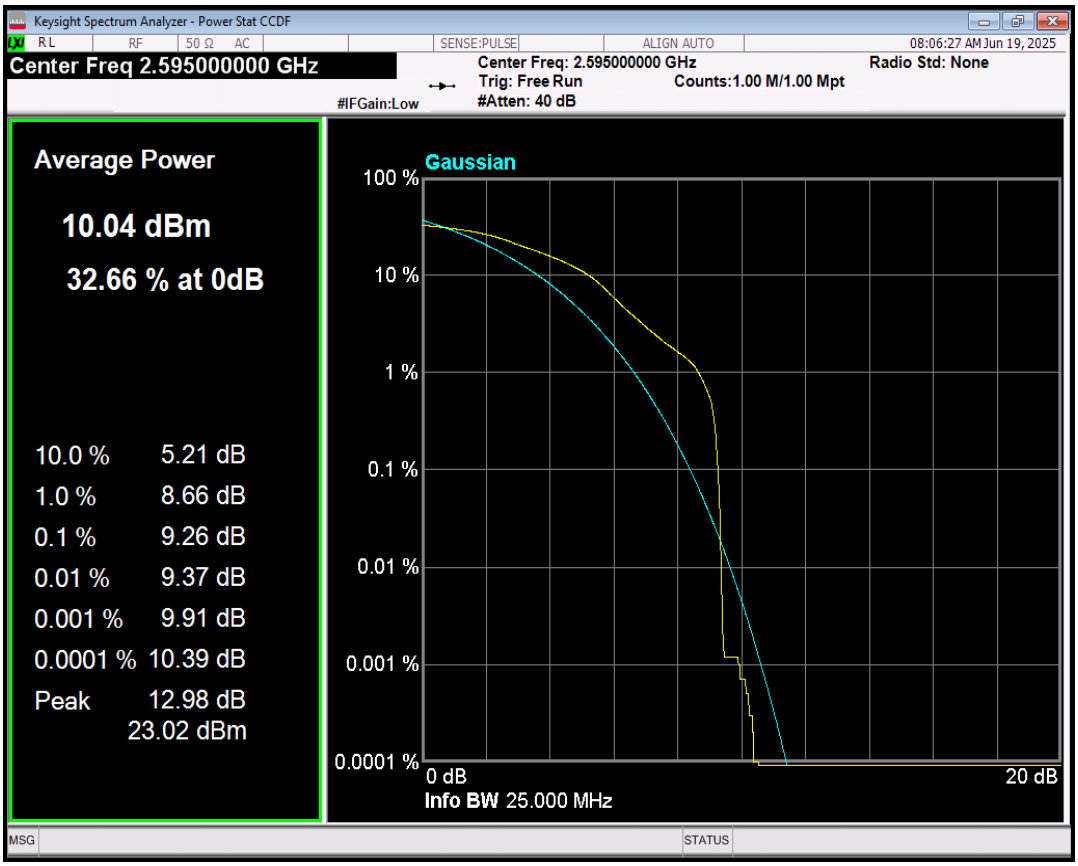
Band41(2535-2655) 16QAM BW=15MHz Channel=40640 RB Size=1 Position=#0



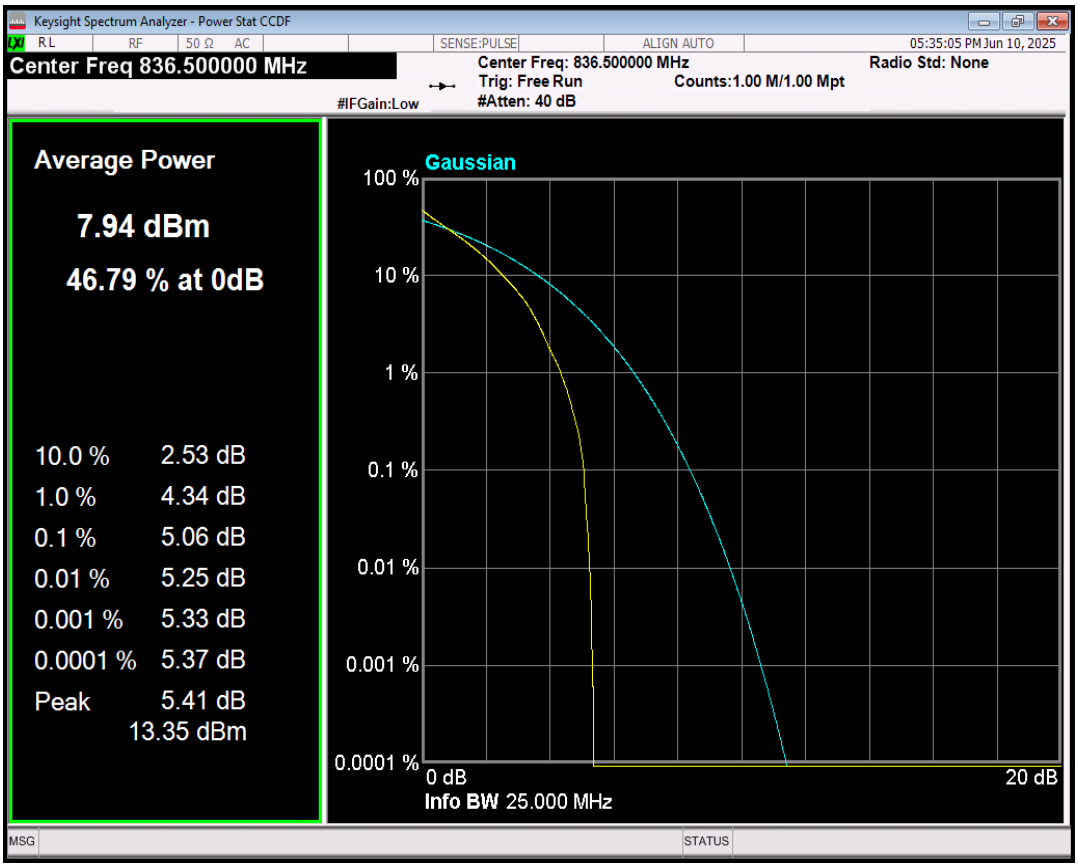
Band41(2535-2655) QPSK BW=20MHz Channel=40640 RB Size=1 Position=#0



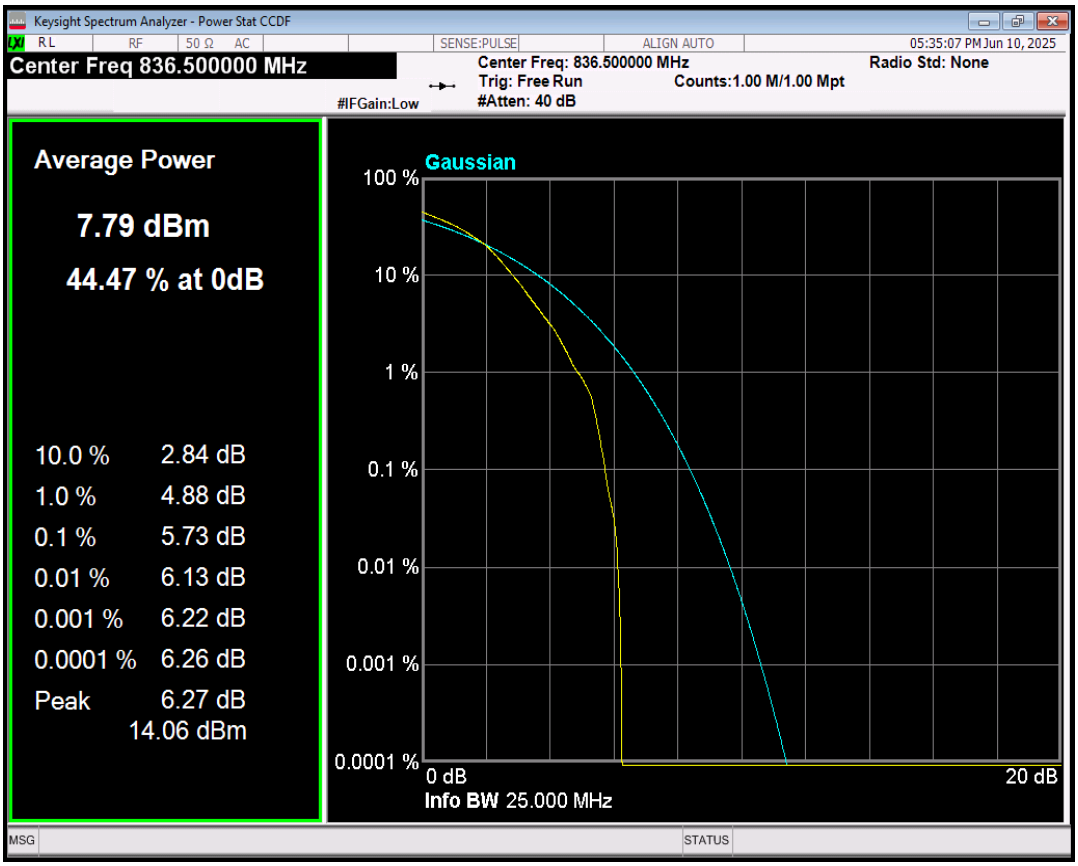
Band41(2535-2655) 16QAM BW=20MHz Channel=40640 RB Size=1 Position=#0



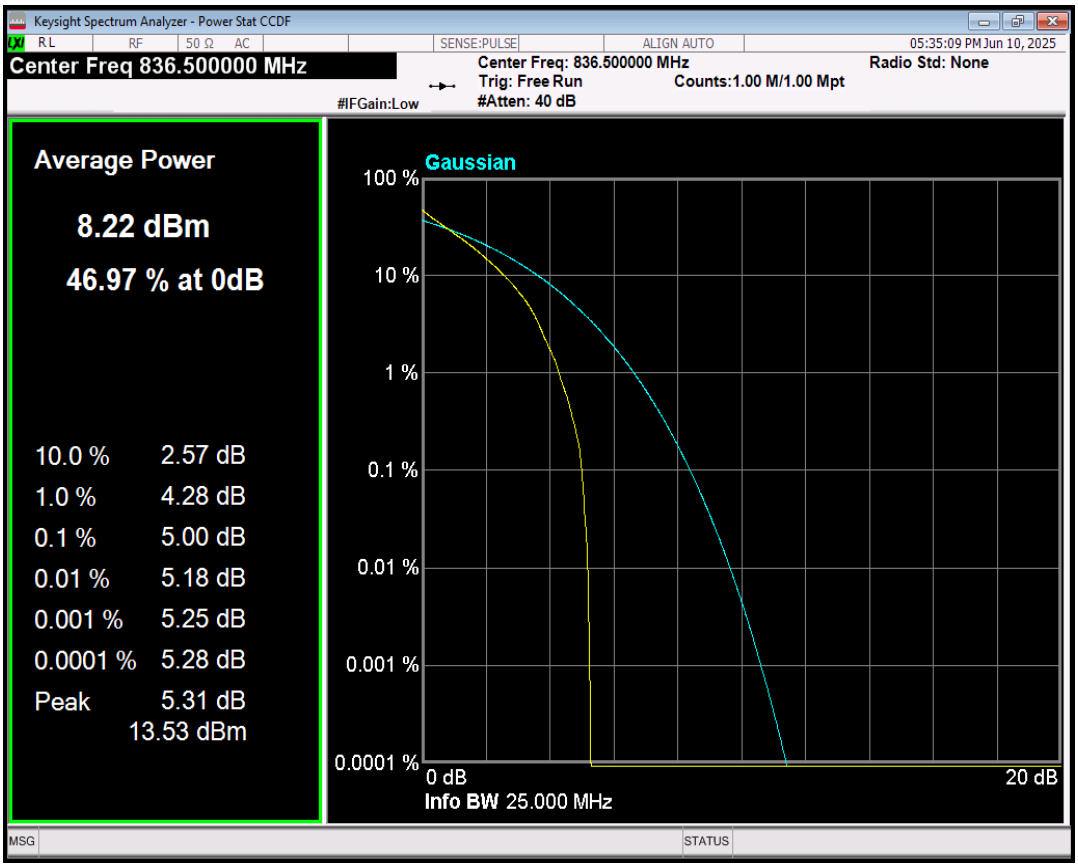
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=1 Position=#0



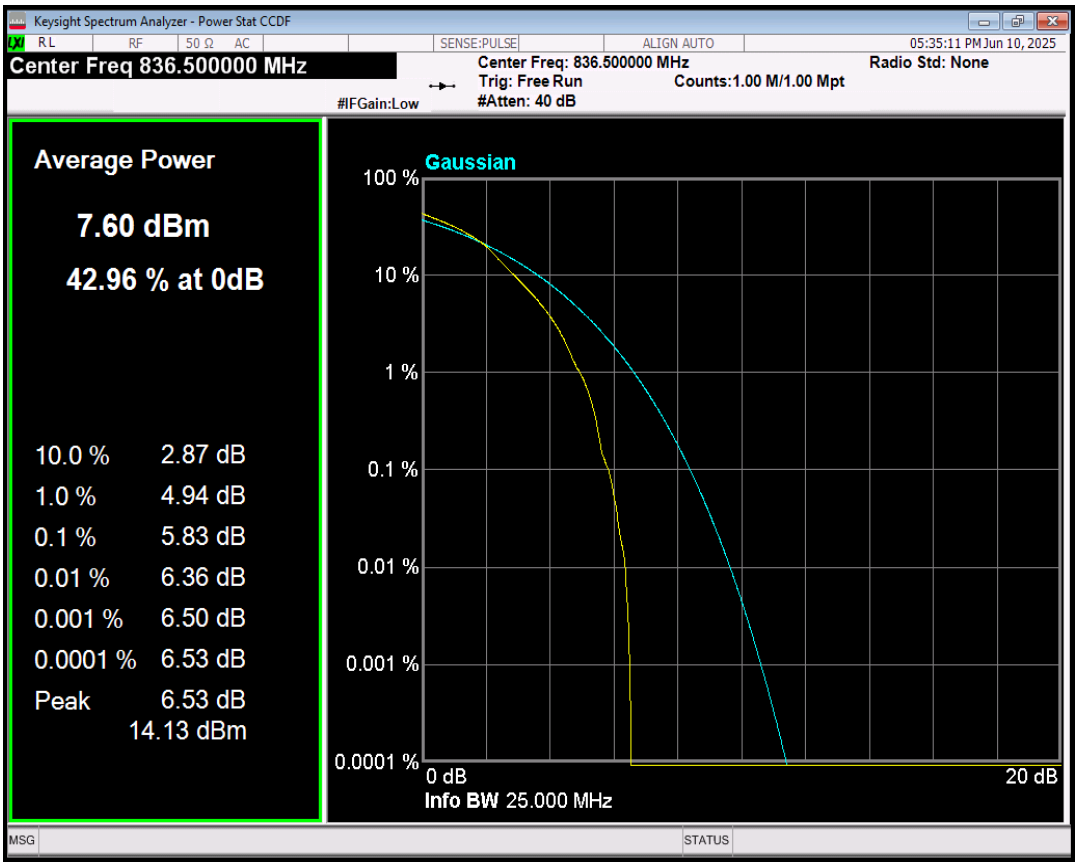
Band5 16QAM BW=1.4MHz Channel=20525 RB Size=1 Position=#0



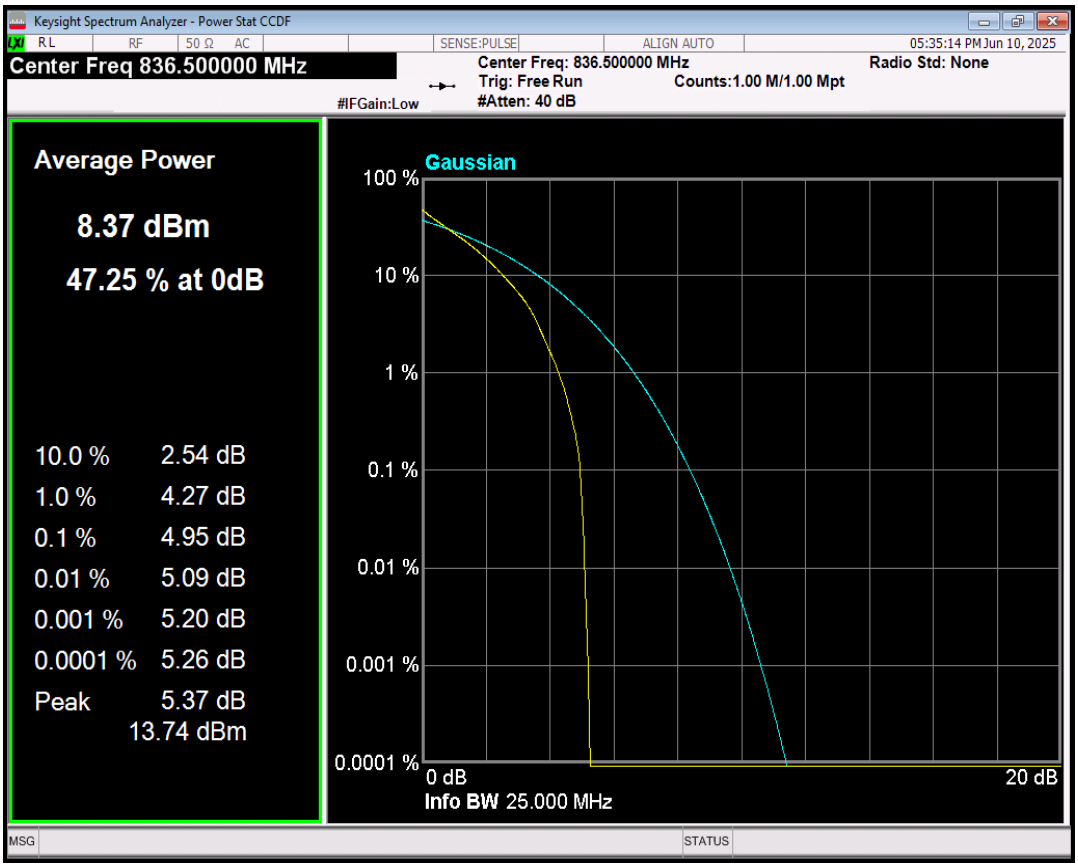
Band5 QPSK BW=3MHz Channel=20525 RB Size=1 Position=#0



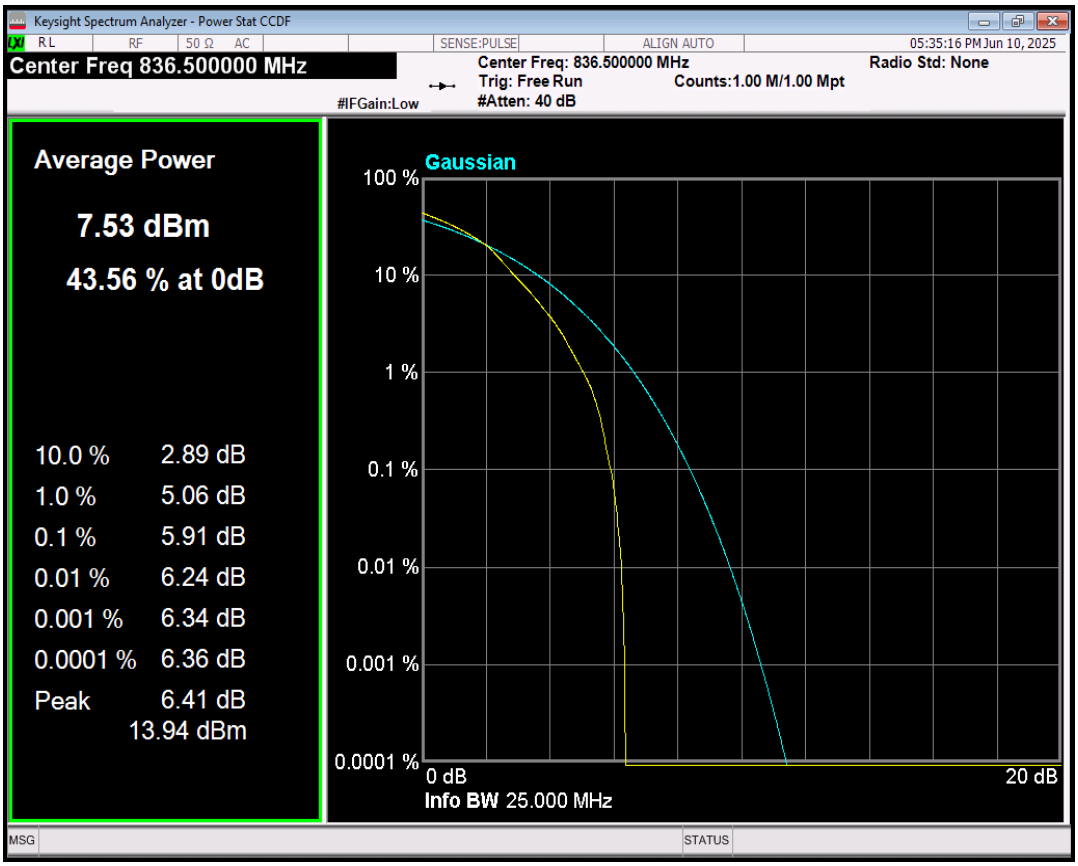
Band5 16QAM BW=3MHz Channel=20525 RB Size=1 Position=#0



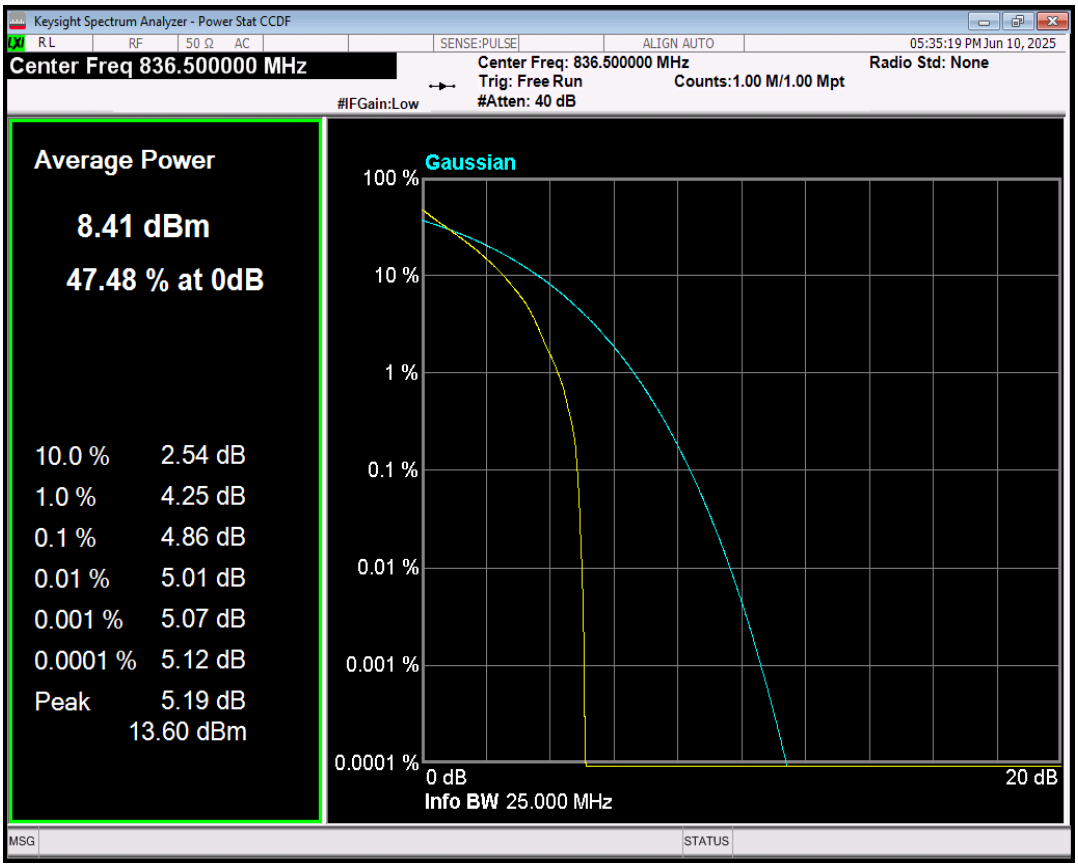
Band5 QPSK BW=5MHz Channel=20525 RB Size=1 Position=#0



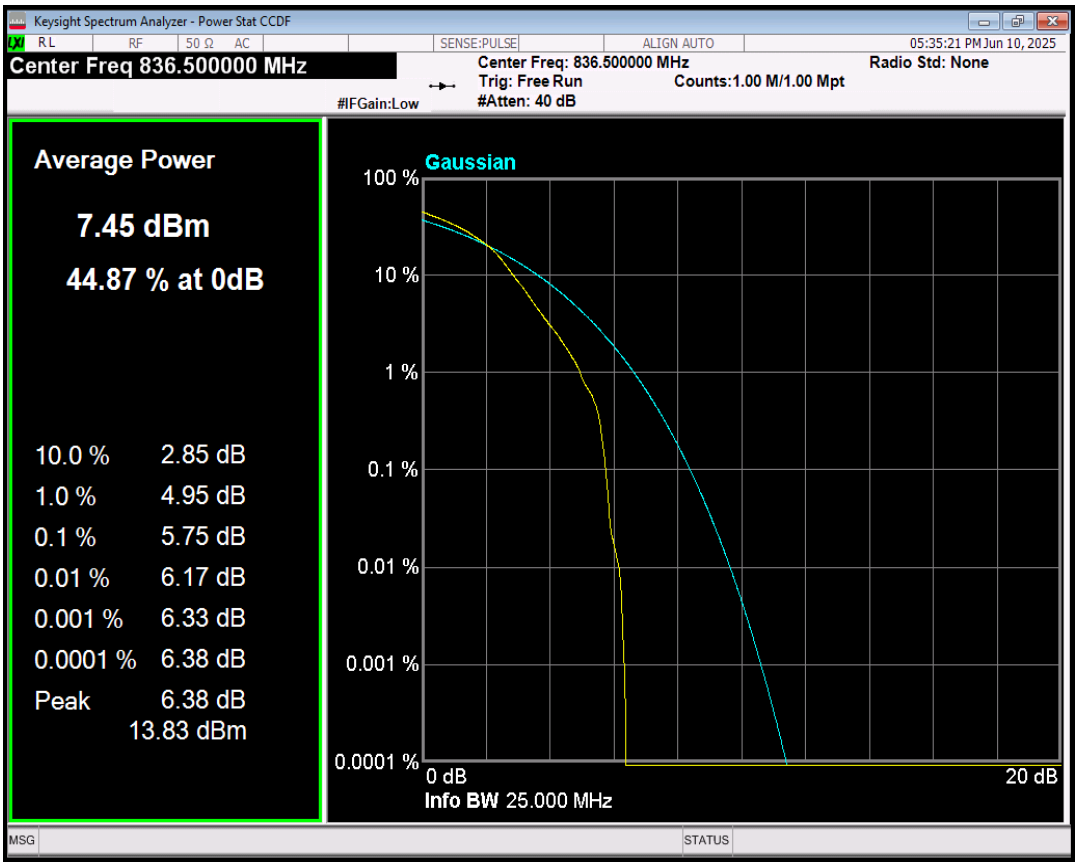
Band5 16QAM BW=5MHz Channel=20525 RB Size=1 Position=#0



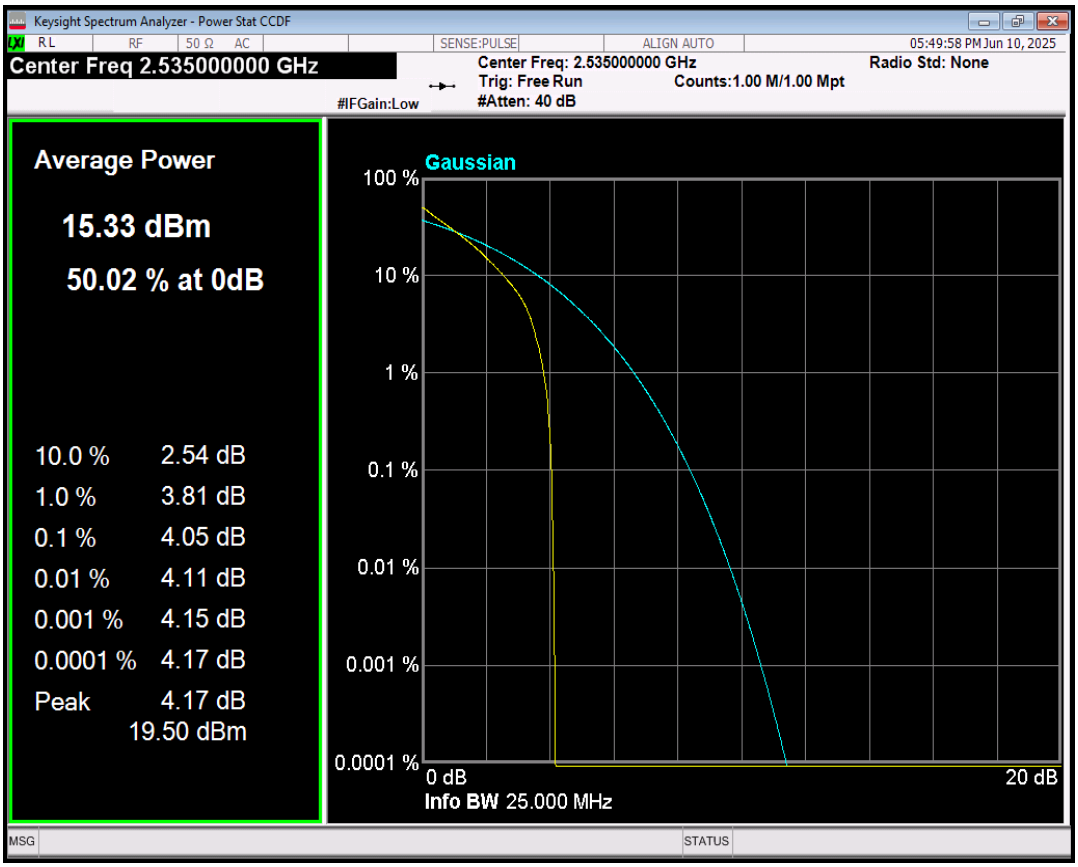
Band5 QPSK BW=10MHz Channel=20525 RB Size=1 Position=#0



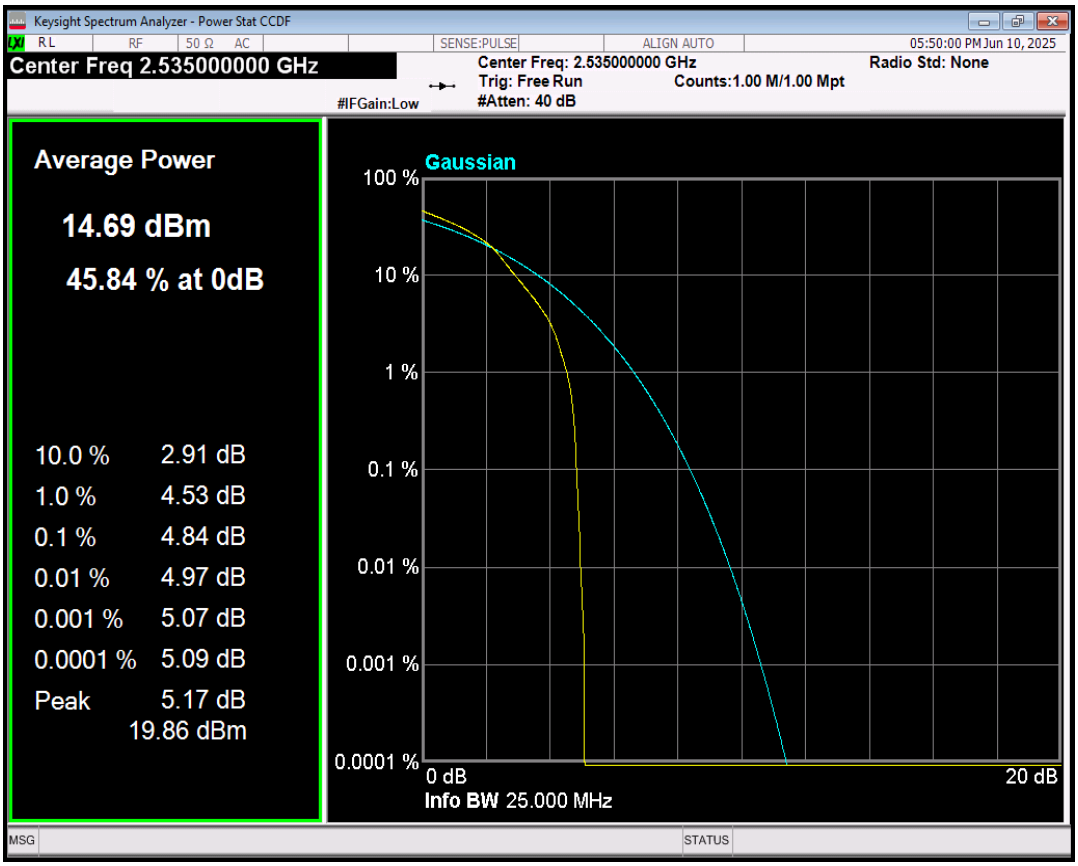
Band5 16QAM BW=10MHz Channel=20525 RB Size=1 Position=#0



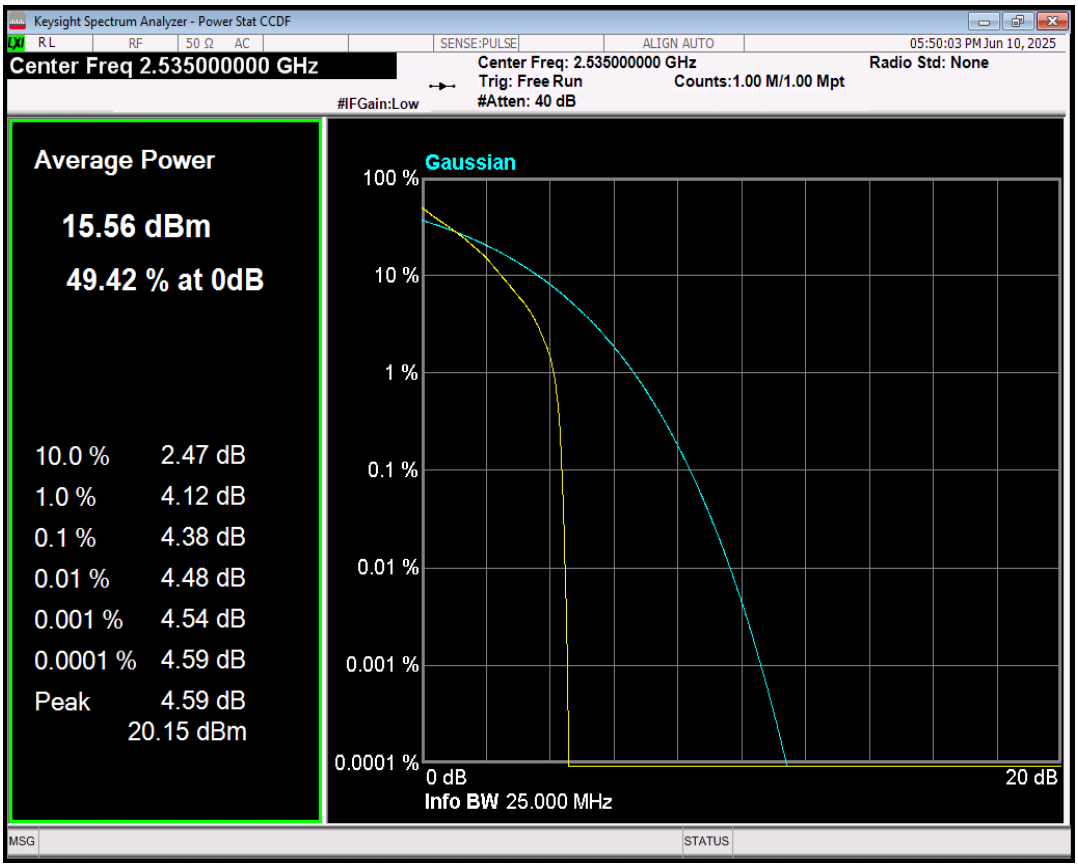
Band7 QPSK BW=5MHz Channel=21100 RB Size=1 Position=#0



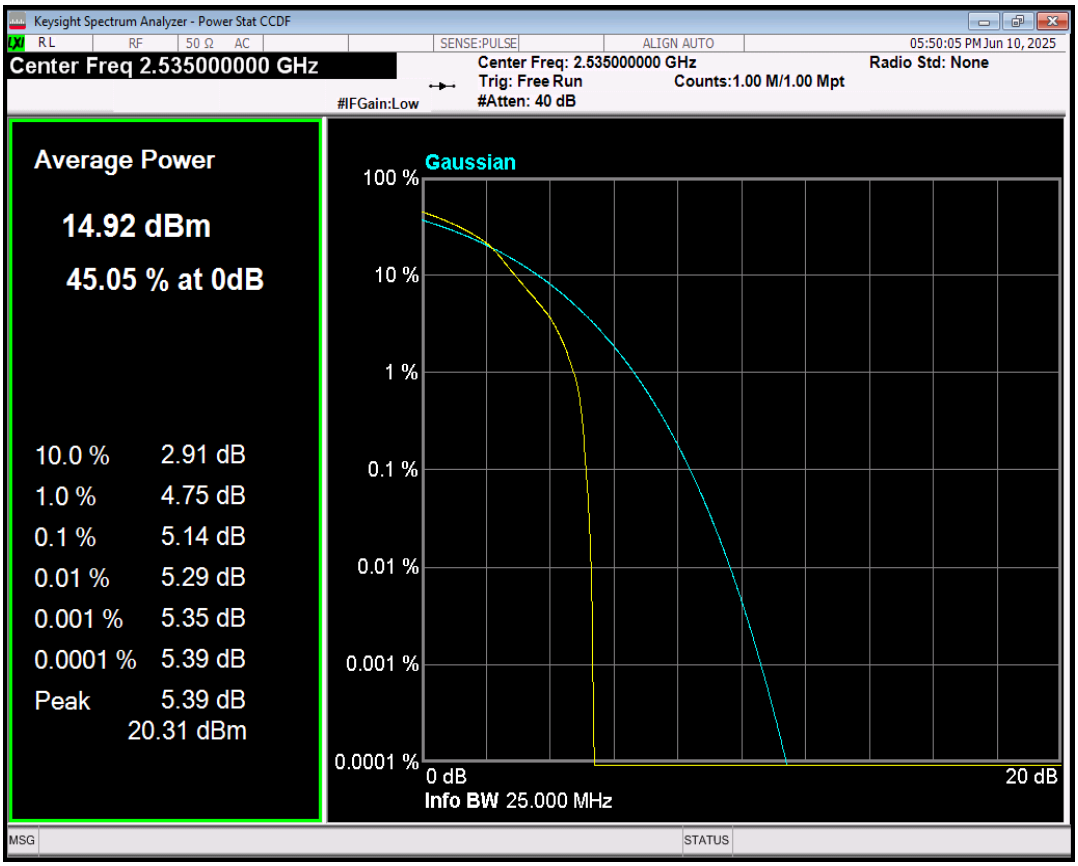
Band7 16QAM BW=5MHz Channel=21100 RB Size=1 Position=#0



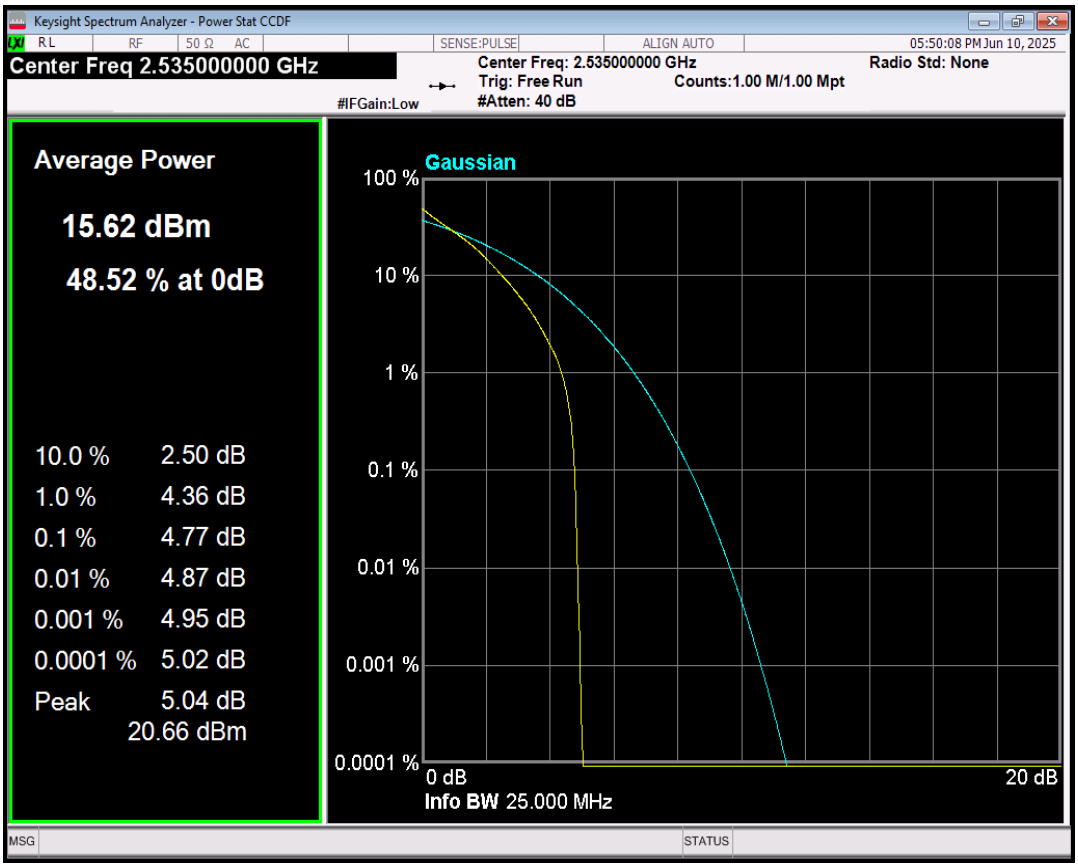
Band7 QPSK BW=10MHz Channel=21100 RB Size=1 Position=#0



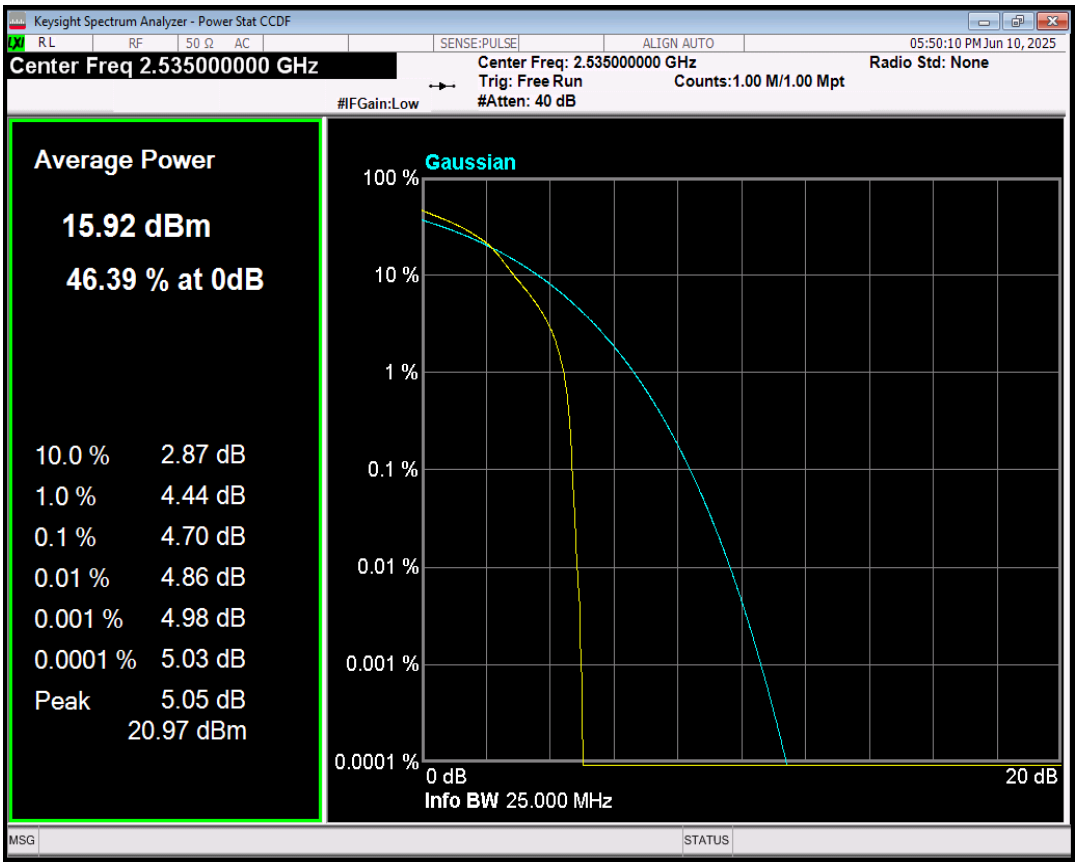
Band7 16QAM BW=10MHz Channel=21100 RB Size=1 Position=#0



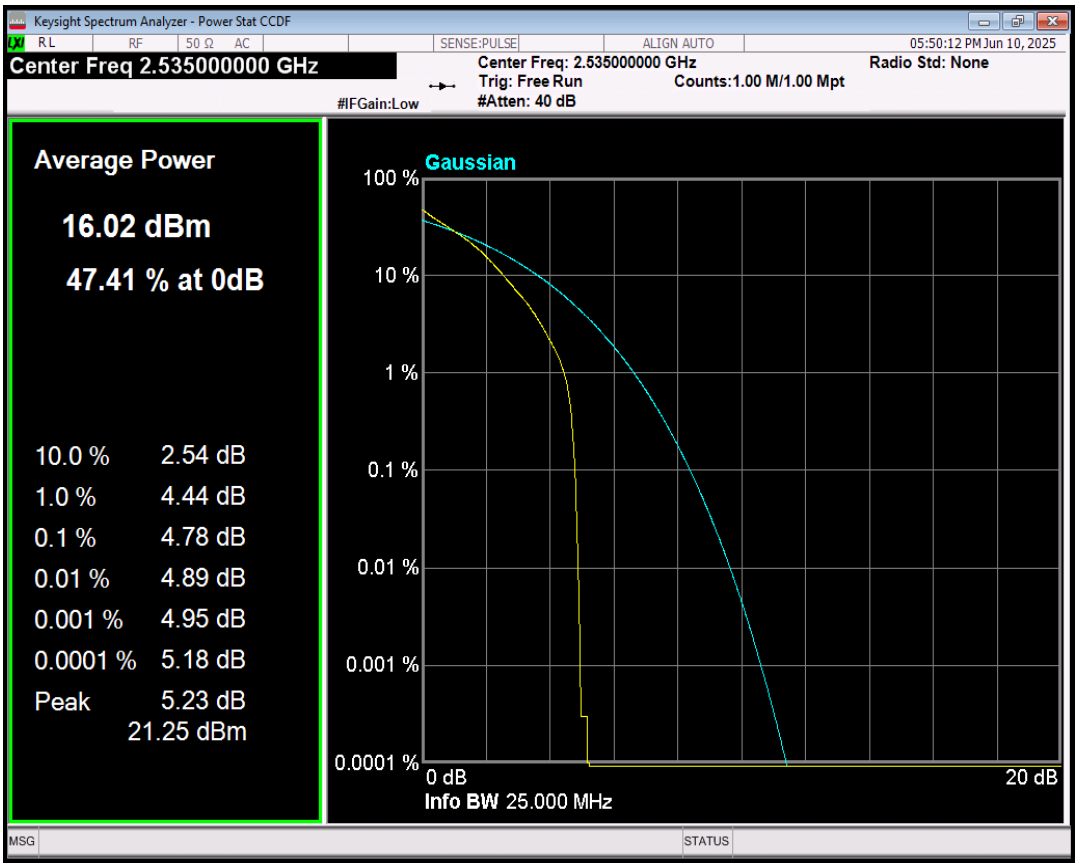
Band7 QPSK BW=15MHz Channel=21100 RB Size=1 Position=#0



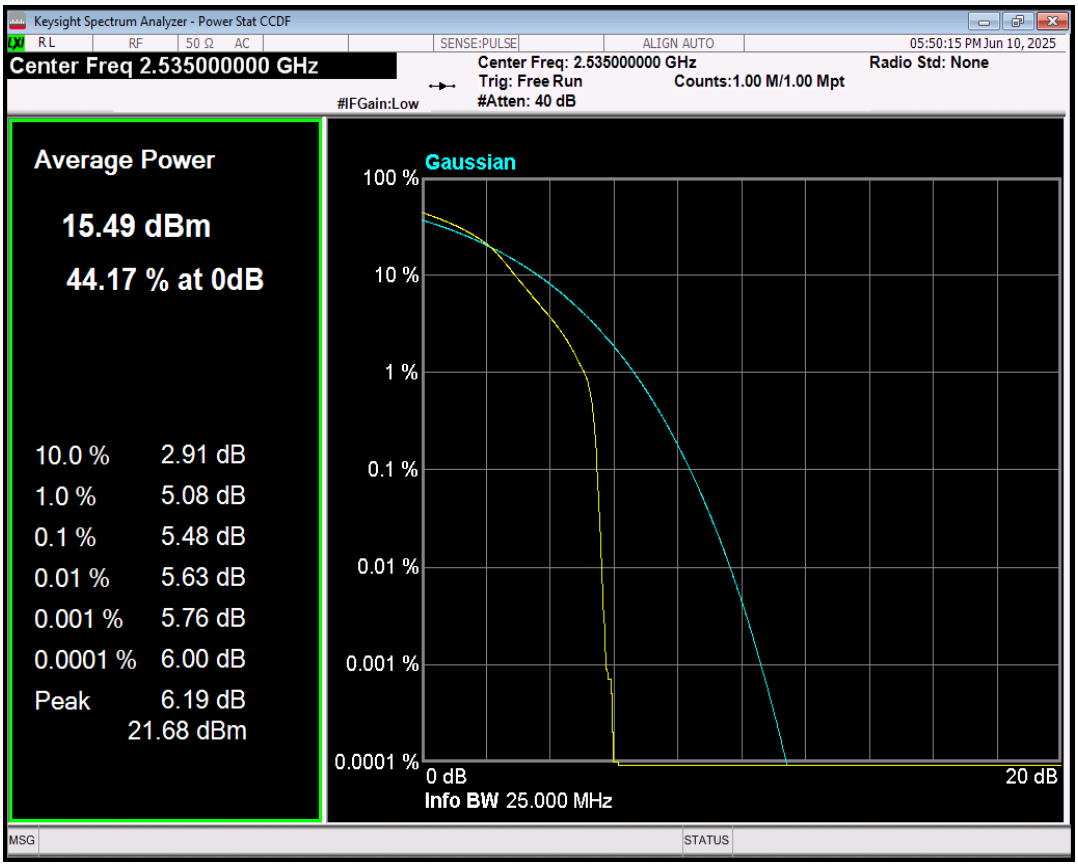
Band7 16QAM BW=15MHz Channel=21100 RB Size=1 Position=#0



Band7 QPSK BW=20MHz Channel=21100 RB Size=1 Position=#0



Band7 16QAM BW=20MHz Channel=21100 RB Size=1 Position=#0

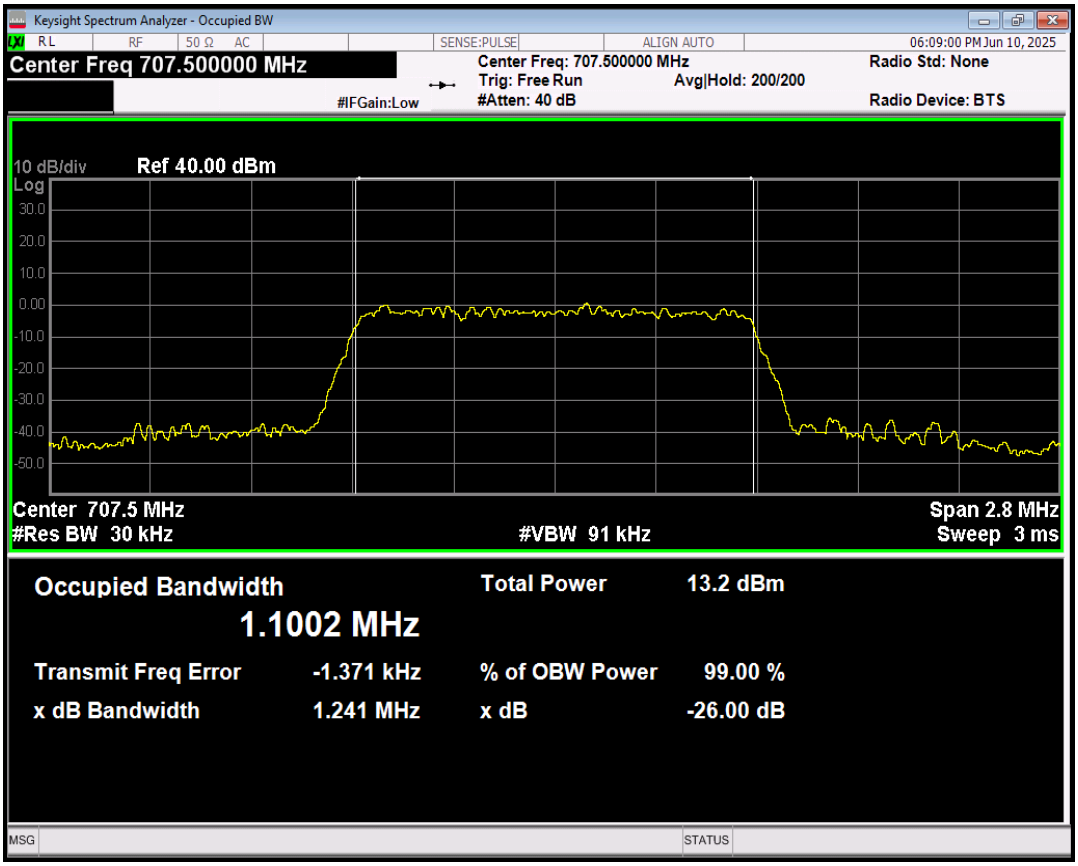


04 Occupied bandwidth

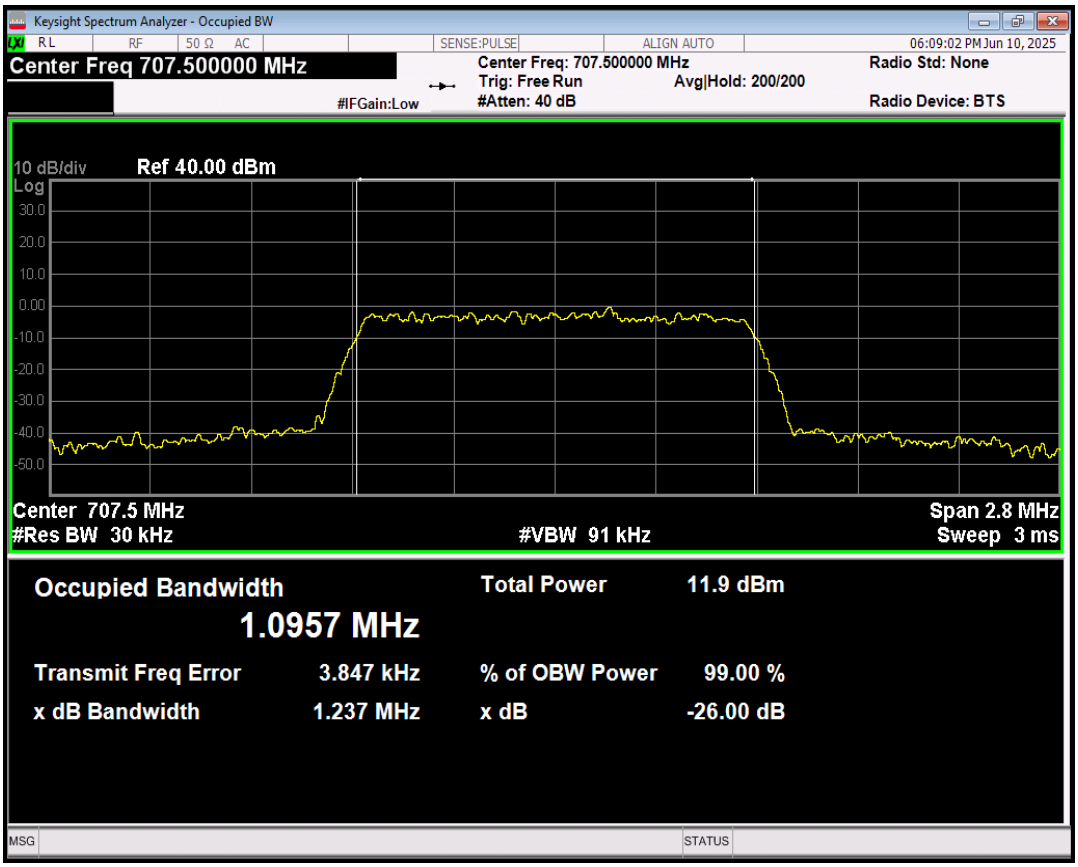
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band12	1.4	23095	6	#0	QPSK	1.100	1.241	PASS
Band12	1.4	23095	6	#0	16QAM	1.096	1.237	PASS
Band12	3	23095	15	#0	QPSK	2.725	3.055	PASS
Band12	3	23095	15	#0	16QAM	2.716	3.064	PASS
Band12	5	23095	25	#0	QPSK	4.504	4.998	PASS
Band12	5	23095	25	#0	16QAM	4.516	4.970	PASS
Band12	10	23095	50	#0	QPSK	9.029	9.903	PASS
Band12	10	23095	50	#0	16QAM	8.989	9.864	PASS
Band17	5	23790	25	#0	QPSK	4.499	4.947	PASS
Band17	5	23790	25	#0	16QAM	4.508	4.912	PASS
Band17	10	23790	50	#0	QPSK	8.999	9.781	PASS
Band17	10	23790	50	#0	16QAM	8.946	9.915	PASS
Band2	1.4	18900	6	#0	QPSK	1.097	1.235	PASS
Band2	1.4	18900	6	#0	16QAM	1.097	1.242	PASS
Band2	3	18900	15	#0	QPSK	2.719	3.037	PASS
Band2	3	18900	15	#0	16QAM	2.709	3.050	PASS
Band2	5	18900	25	#0	QPSK	4.494	4.930	PASS
Band2	5	18900	25	#0	16QAM	4.504	4.940	PASS
Band2	10	18900	50	#0	QPSK	9.003	9.842	PASS
Band2	10	18900	50	#0	16QAM	9.014	9.822	PASS
Band2	15	18900	75	#0	QPSK	13.467	14.782	PASS
Band2	15	18900	75	#0	16QAM	13.511	14.815	PASS
Band2	20	18900	100	#0	QPSK	18.030	19.553	PASS
Band2	20	18900	100	#0	16QAM	18.100	19.638	PASS
Band4	1.4	20175	6	#0	QPSK	1.093	1.241	PASS
Band4	1.4	20175	6	#0	16QAM	1.099	1.251	PASS
Band4	3	20175	15	#0	QPSK	2.704	3.051	PASS
Band4	3	20175	15	#0	16QAM	2.716	3.051	PASS
Band4	5	20175	25	#0	QPSK	4.506	4.958	PASS
Band4	5	20175	25	#0	16QAM	4.500	5.018	PASS
Band4	10	20175	50	#0	QPSK	8.990	9.789	PASS
Band4	10	20175	50	#0	16QAM	8.971	9.814	PASS
Band4	15	20175	75	#0	QPSK	13.453	14.831	PASS
Band4	15	20175	75	#0	16QAM	13.474	14.907	PASS
Band4	20	20175	100	#0	QPSK	17.912	19.577	PASS
Band4	20	20175	100	#0	16QAM	17.955	19.572	PASS
Band41(2535-2655)	5	40640	25	#0	QPSK	4.504	4.939	PASS
Band41(2535-2655)	5	40640	25	#0	16QAM	4.526	5.113	PASS
Band41(2535-2655)	10	40640	50	#0	QPSK	8.967	10.247	PASS
Band41(2535-2655)	10	40640	50	#0	16QAM	8.990	9.731	PASS
Band41(2535-2655)	15	40640	75	#0	QPSK	13.456	15.588	PASS
Band41(2535-2655)	15	40640	75	#0	16QAM	13.499	15.374	PASS

Band41(2535-2655)	20	40640	100	#0	QPSK	17.941	19.334	PASS
Band41(2535-2655)	20	40640	100	#0	16QAM	18.014	20.437	PASS
Band5	1.4	20525	6	#0	QPSK	1.095	1.242	PASS
Band5	1.4	20525	6	#0	16QAM	1.098	1.247	PASS
Band5	3	20525	15	#0	QPSK	2.711	3.035	PASS
Band5	3	20525	15	#0	16QAM	2.713	3.041	PASS
Band5	5	20525	25	#0	QPSK	4.493	4.921	PASS
Band5	5	20525	25	#0	16QAM	4.488	4.906	PASS
Band5	10	20525	50	#0	QPSK	8.970	9.658	PASS
Band5	10	20525	50	#0	16QAM	8.977	9.784	PASS
Band7	5	21100	25	#0	QPSK	4.496	4.988	PASS
Band7	5	21100	25	#0	16QAM	4.506	4.894	PASS
Band7	10	21100	50	#0	QPSK	9.000	9.852	PASS
Band7	10	21100	50	#0	16QAM	8.944	9.877	PASS
Band7	15	21100	75	#0	QPSK	13.434	14.839	PASS
Band7	15	21100	75	#0	16QAM	13.462	14.757	PASS
Band7	20	21100	100	#0	QPSK	17.957	19.679	PASS
Band7	20	21100	100	#0	16QAM	17.992	19.592	PASS

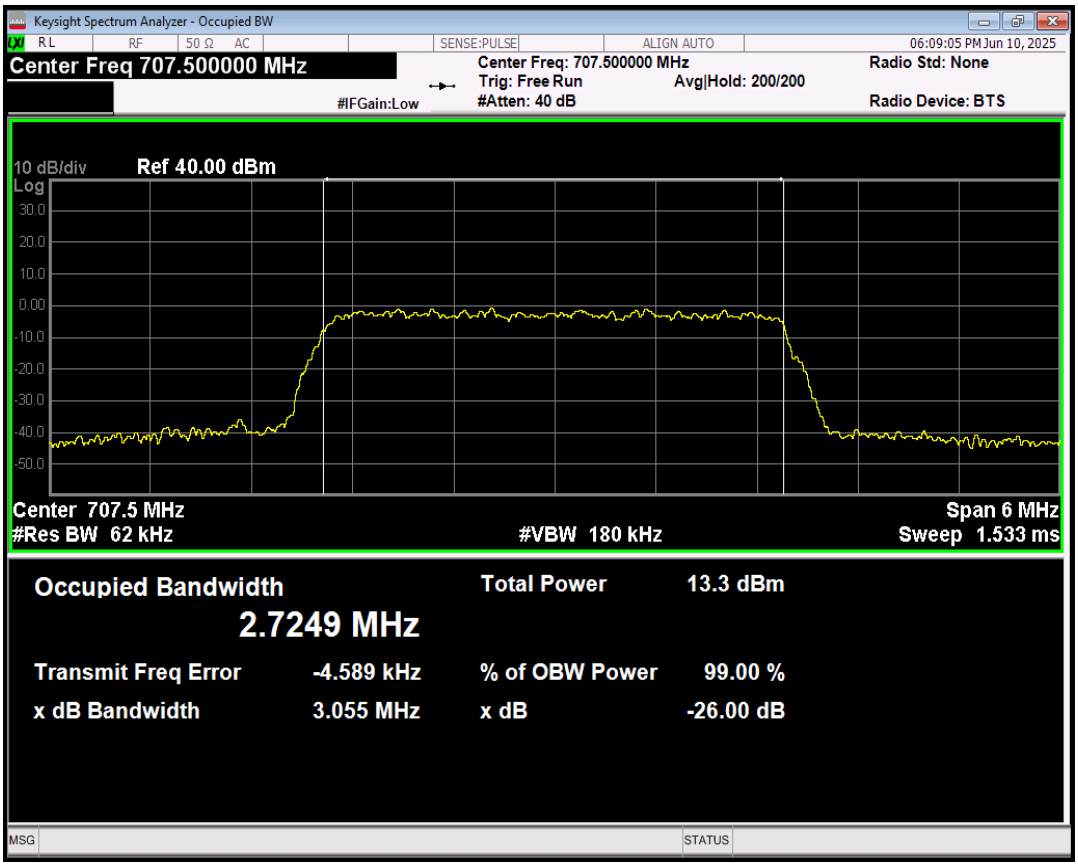
Band12 QPSK BW=1.4MHz Channel=23095 RB Size=6 Position=#0



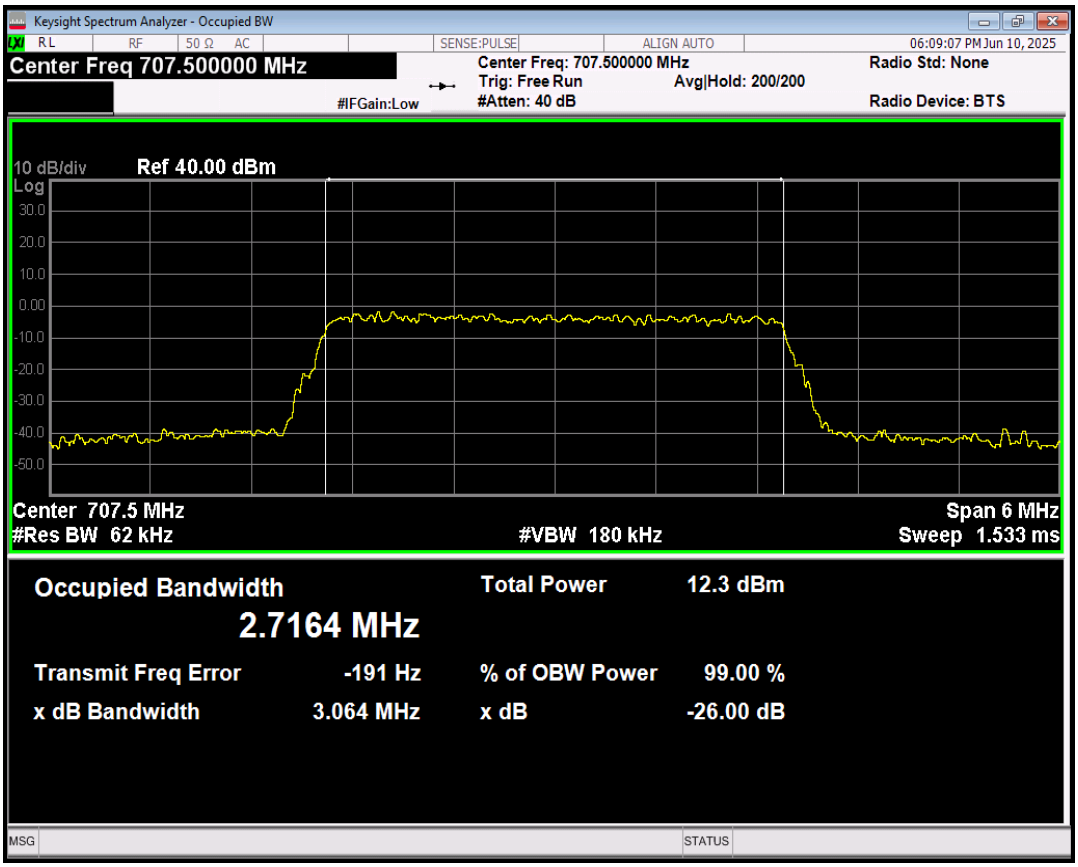
Band12 16QAM BW=1.4MHz Channel=23095 RB Size=6 Position=#0



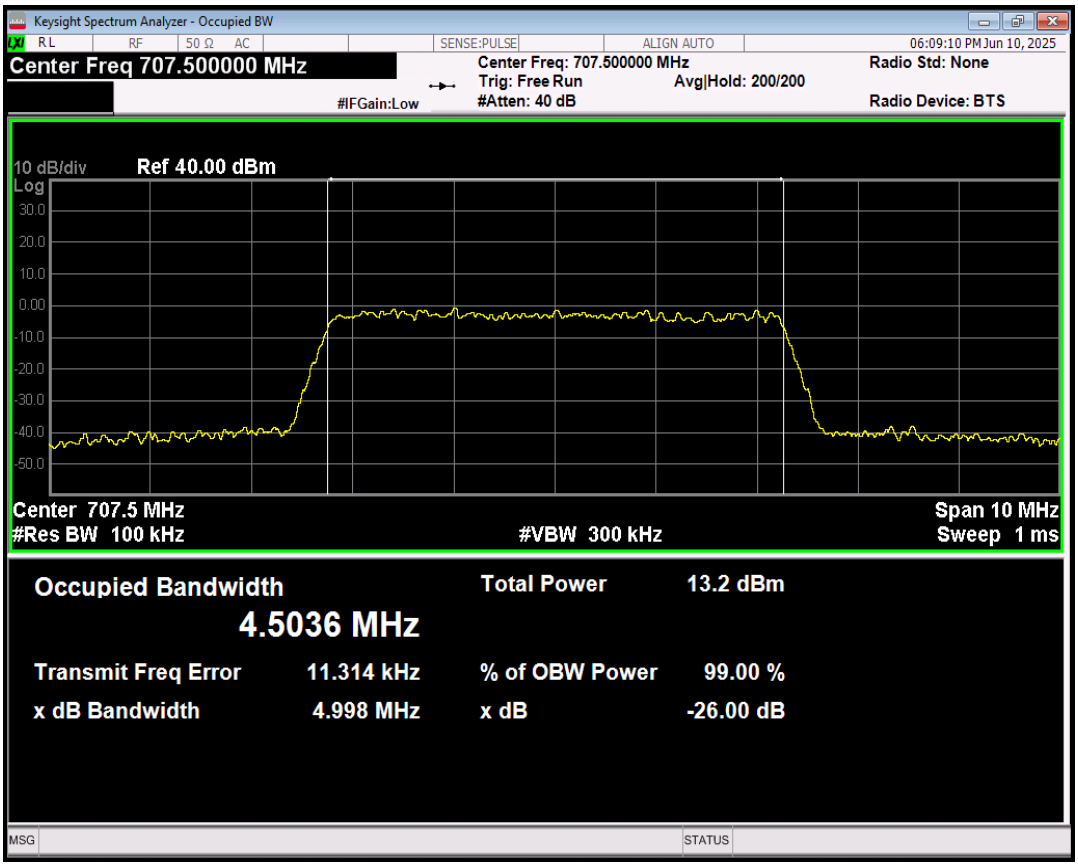
Band12 QPSK BW=3MHz Channel=23095 RB Size=15 Position=#0



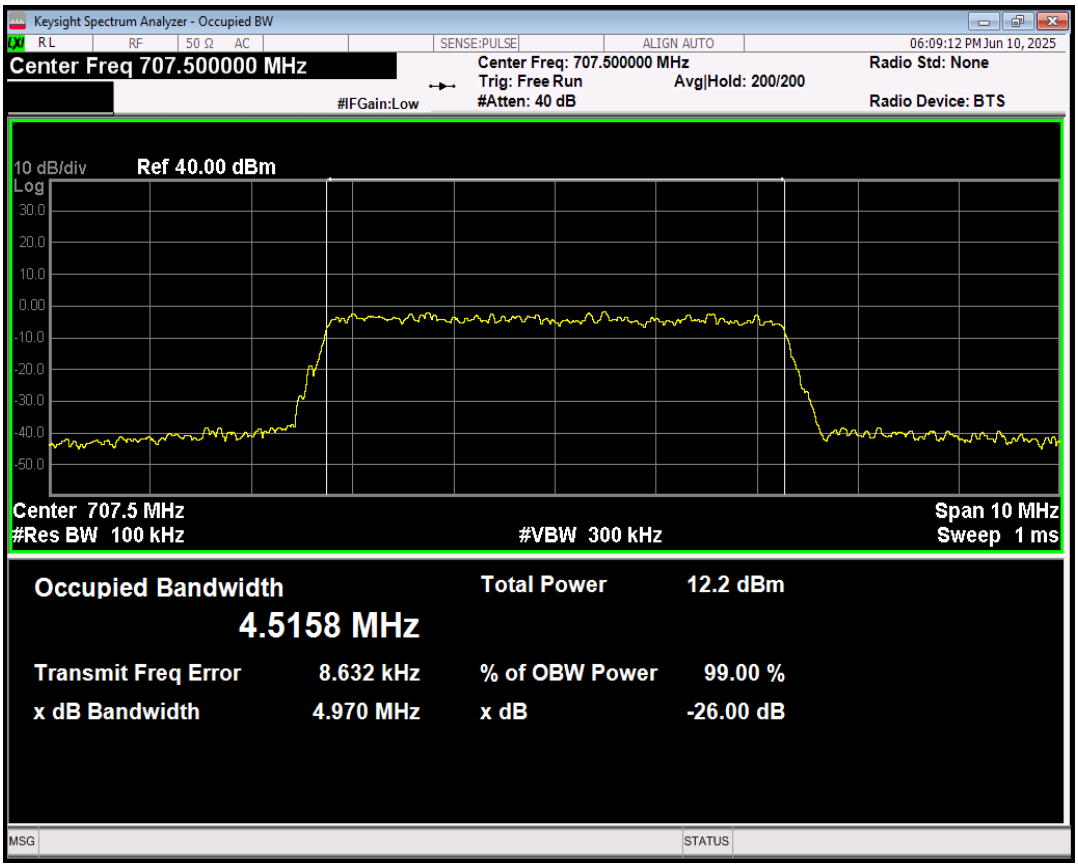
Band12 16QAM BW=3MHz Channel=23095 RB Size=15 Position=#0



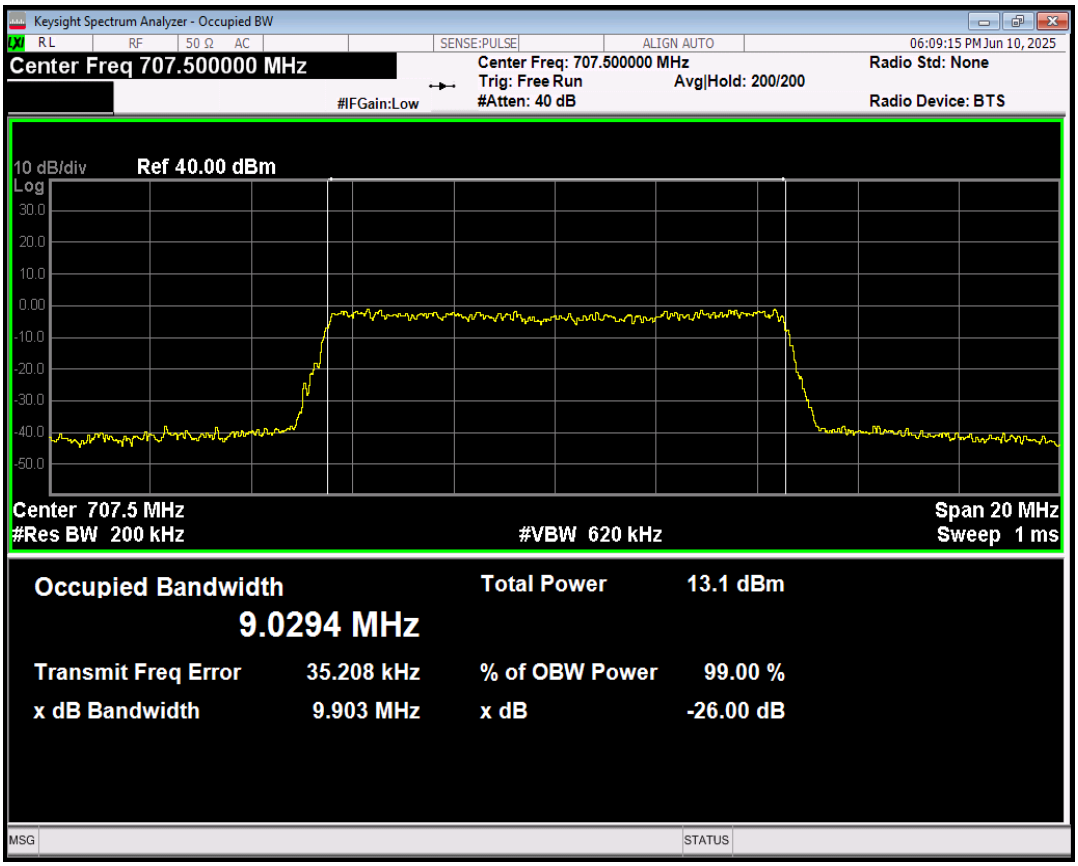
Band12 QPSK BW=5MHz Channel=23095 RB Size=25 Position=#0



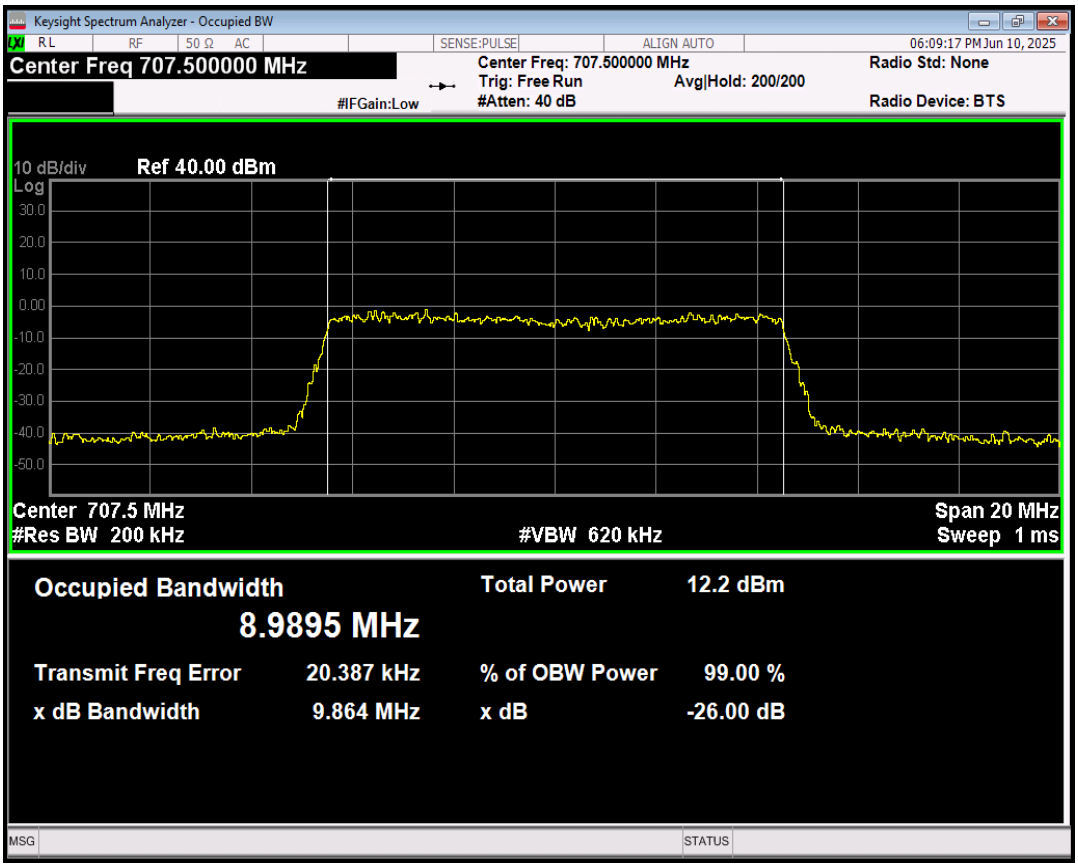
Band12 16QAM BW=5MHz Channel=23095 RB Size=25 Position=#0



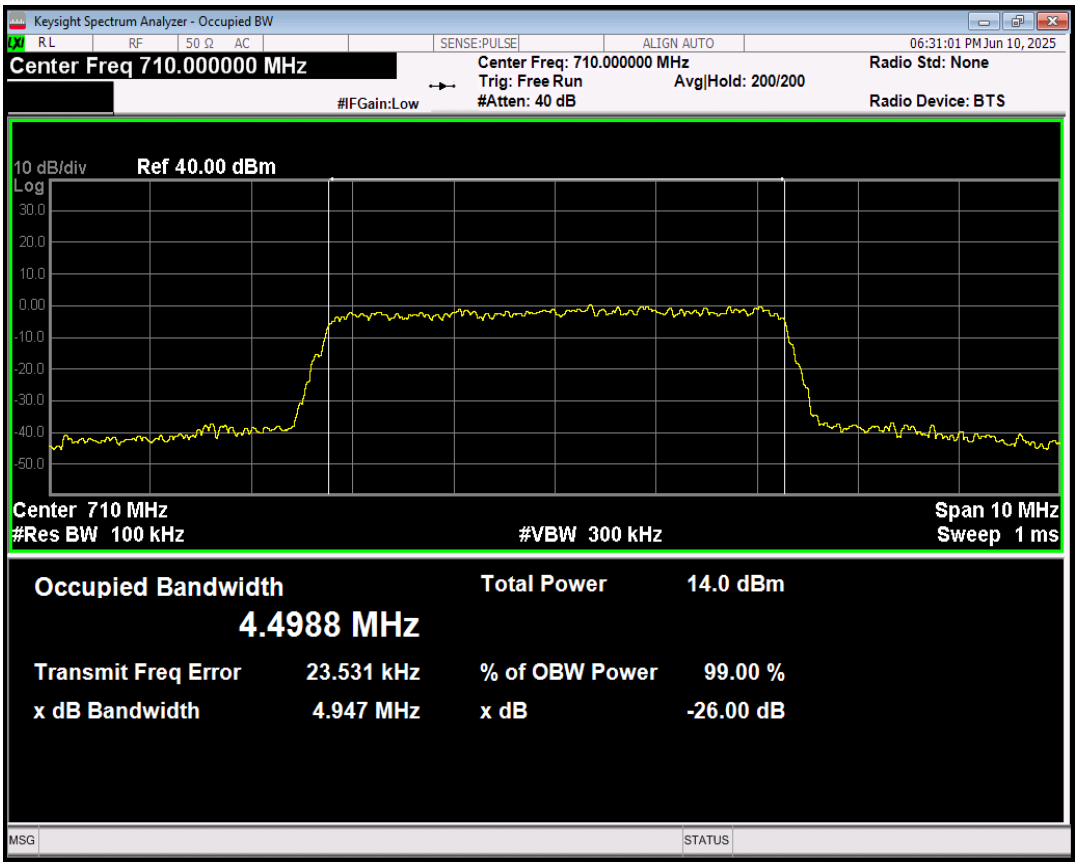
Band12 QPSK BW=10MHz Channel=23095 RB Size=50 Position=#0



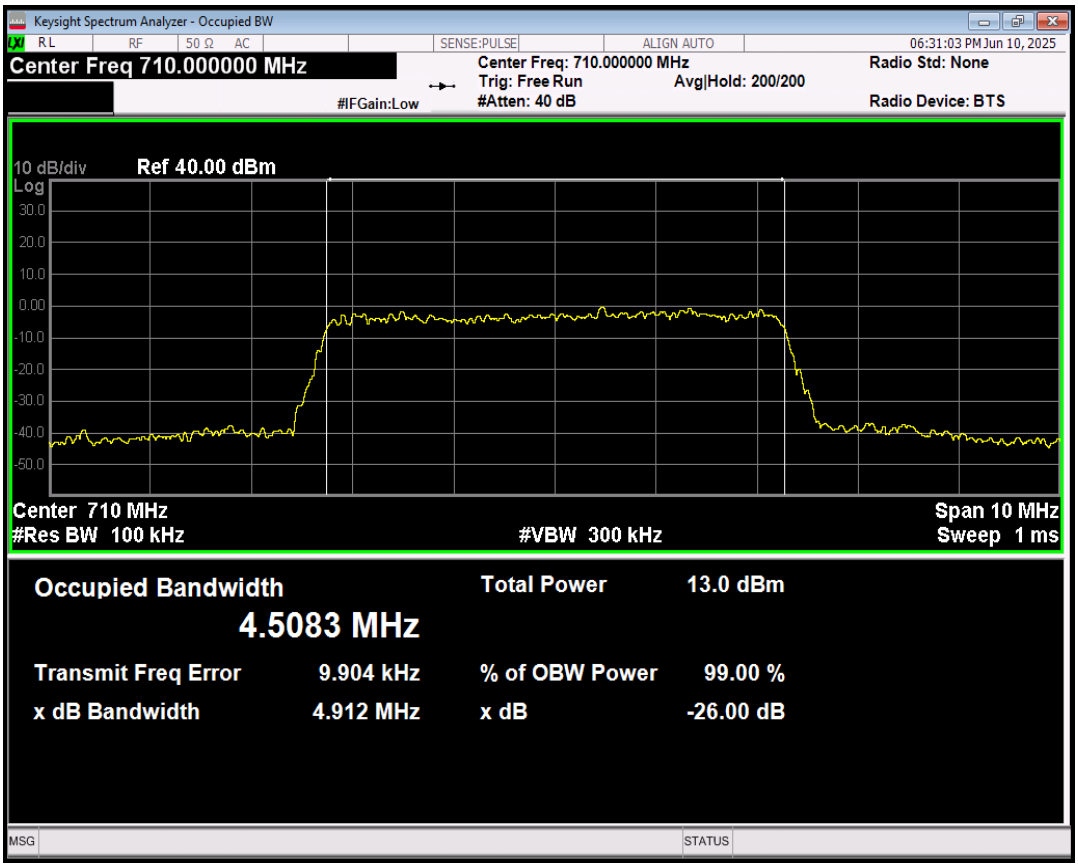
Band12 16QAM BW=10MHz Channel=23095 RB Size=50 Position=#0



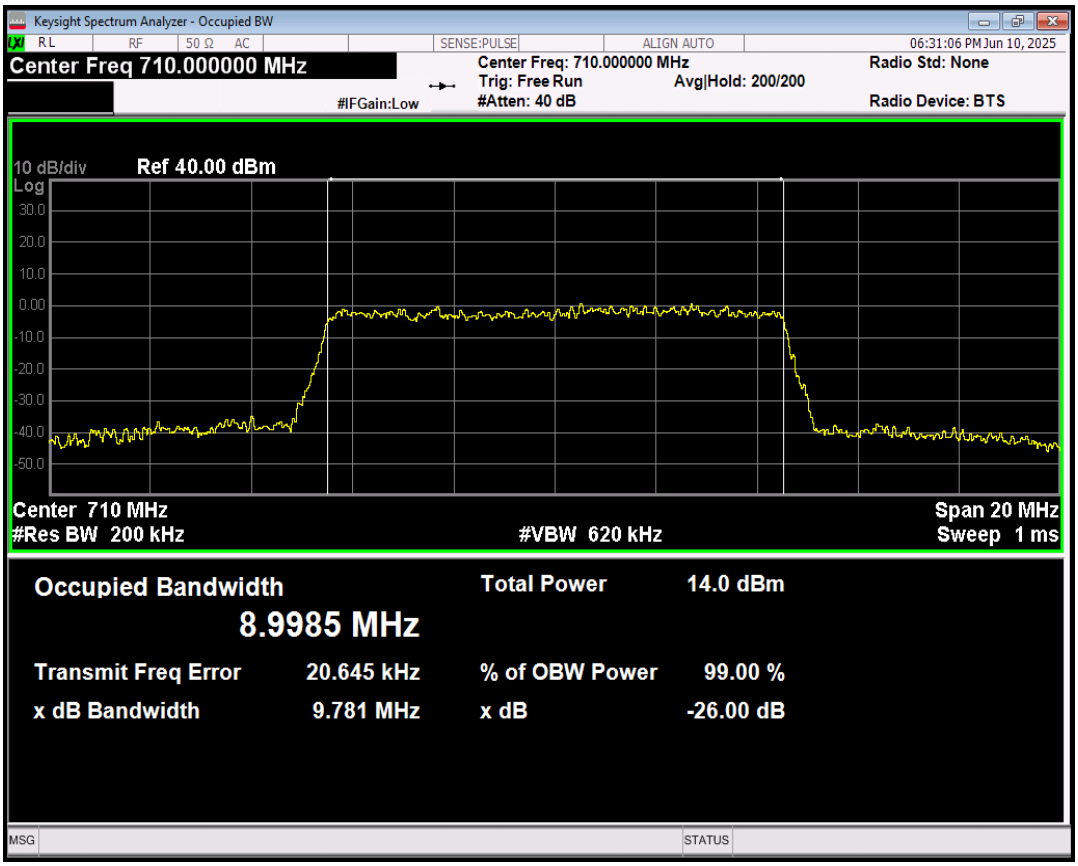
Band17 QPSK BW=5MHz Channel=23790 RB Size=25 Position=#0



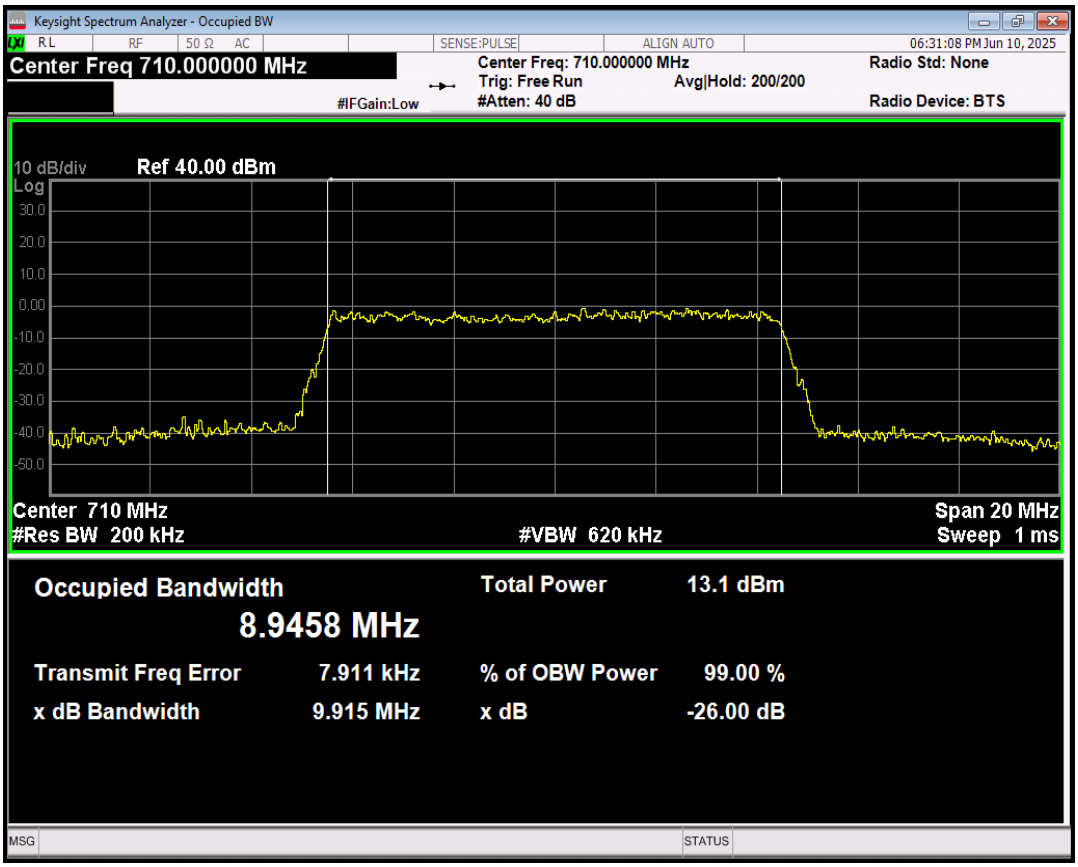
Band17 16QAM BW=5MHz Channel=23790 RB Size=25 Position=#0



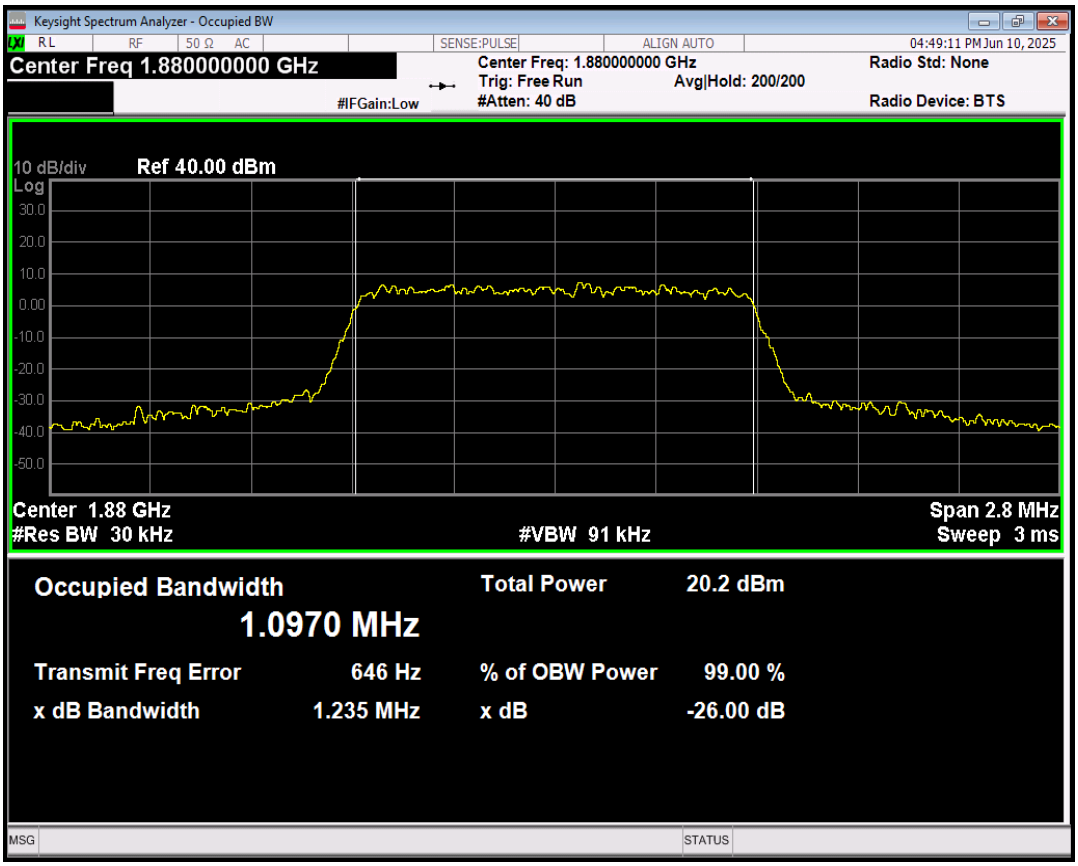
Band17 QPSK BW=10MHz Channel=23790 RB Size=50 Position=#0



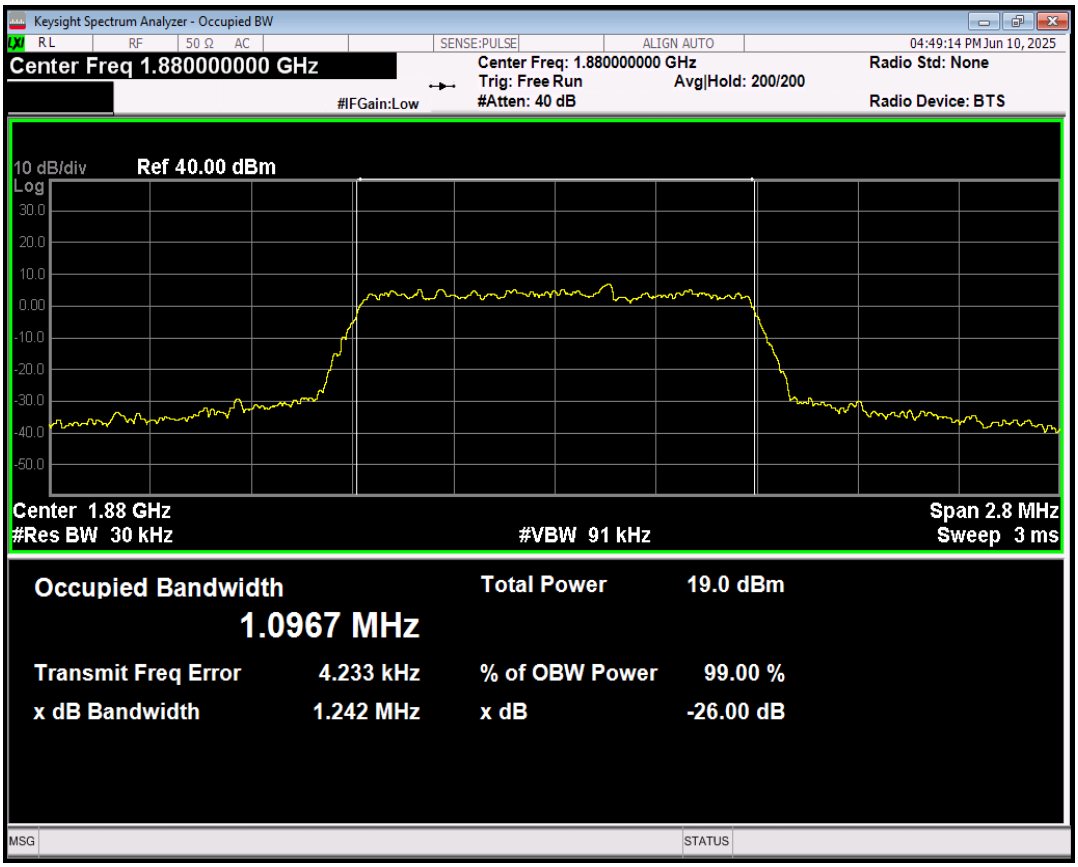
Band17 16QAM BW=10MHz Channel=23790 RB Size=50 Position=#0



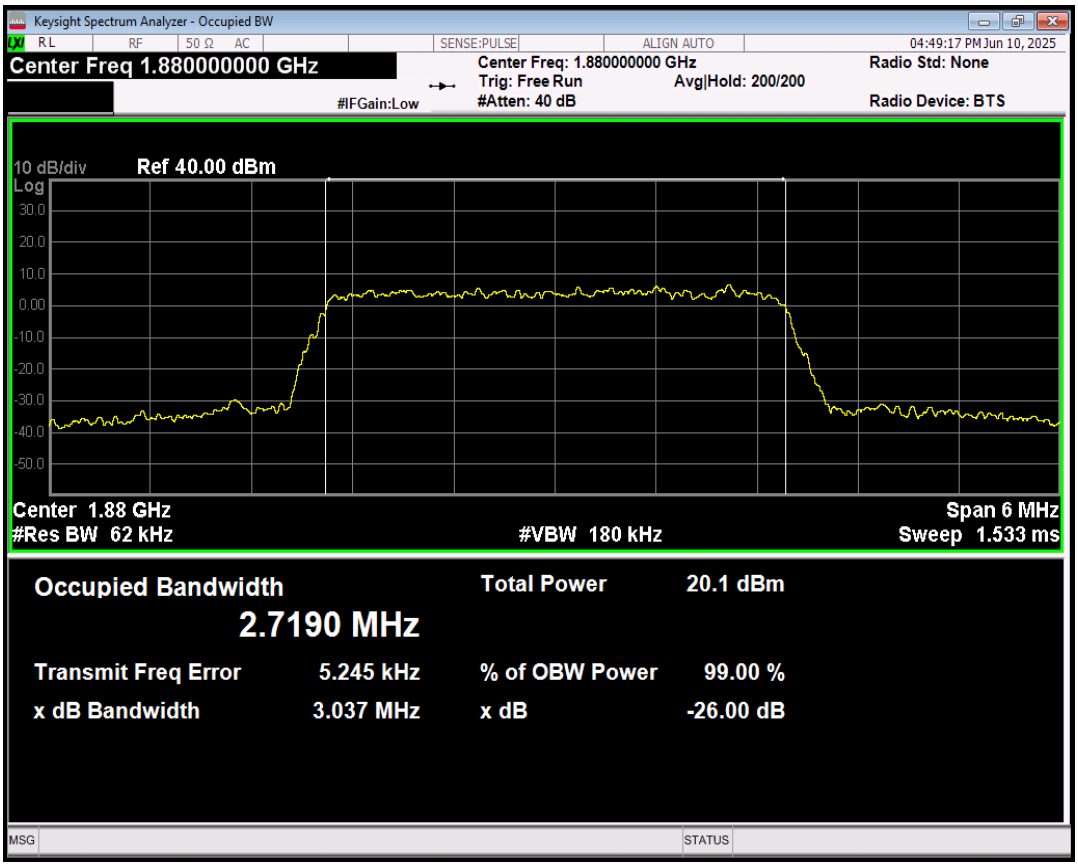
Band2 QPSK BW=1.4MHz Channel=18900 RB Size=6 Position=#0



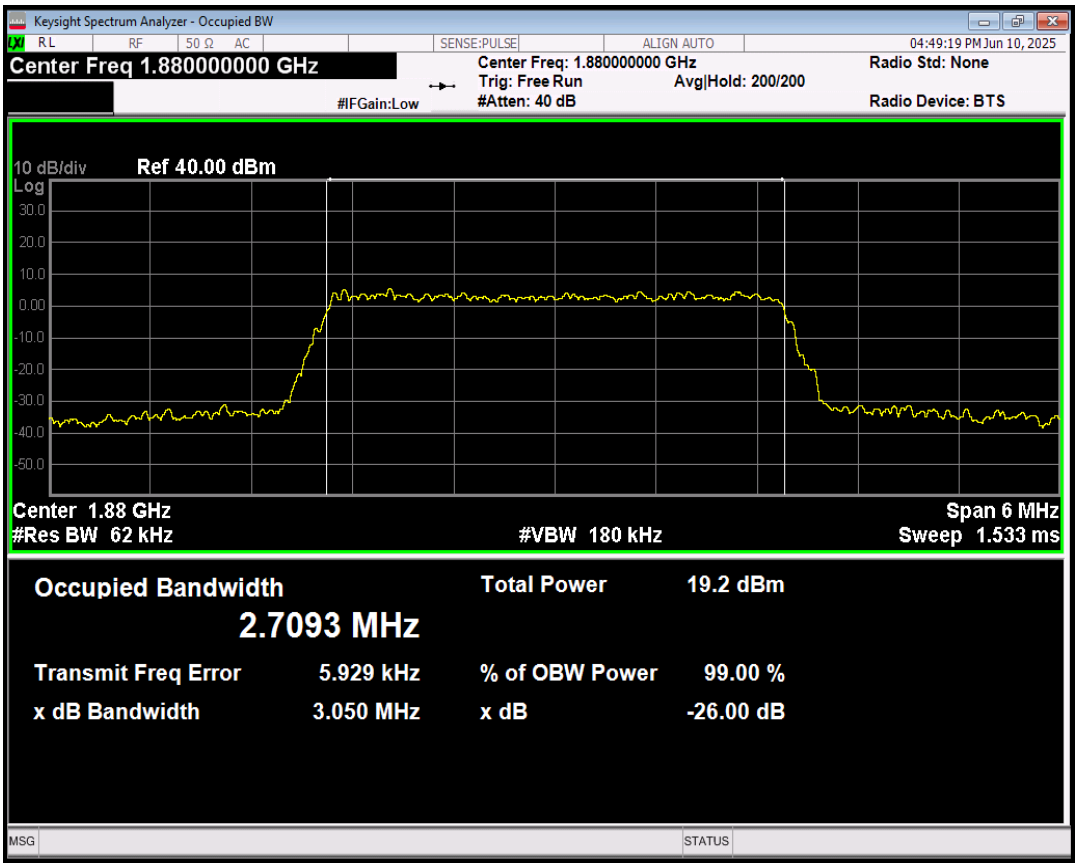
Band2 16QAM BW=1.4MHz Channel=18900 RB Size=6 Position=#0



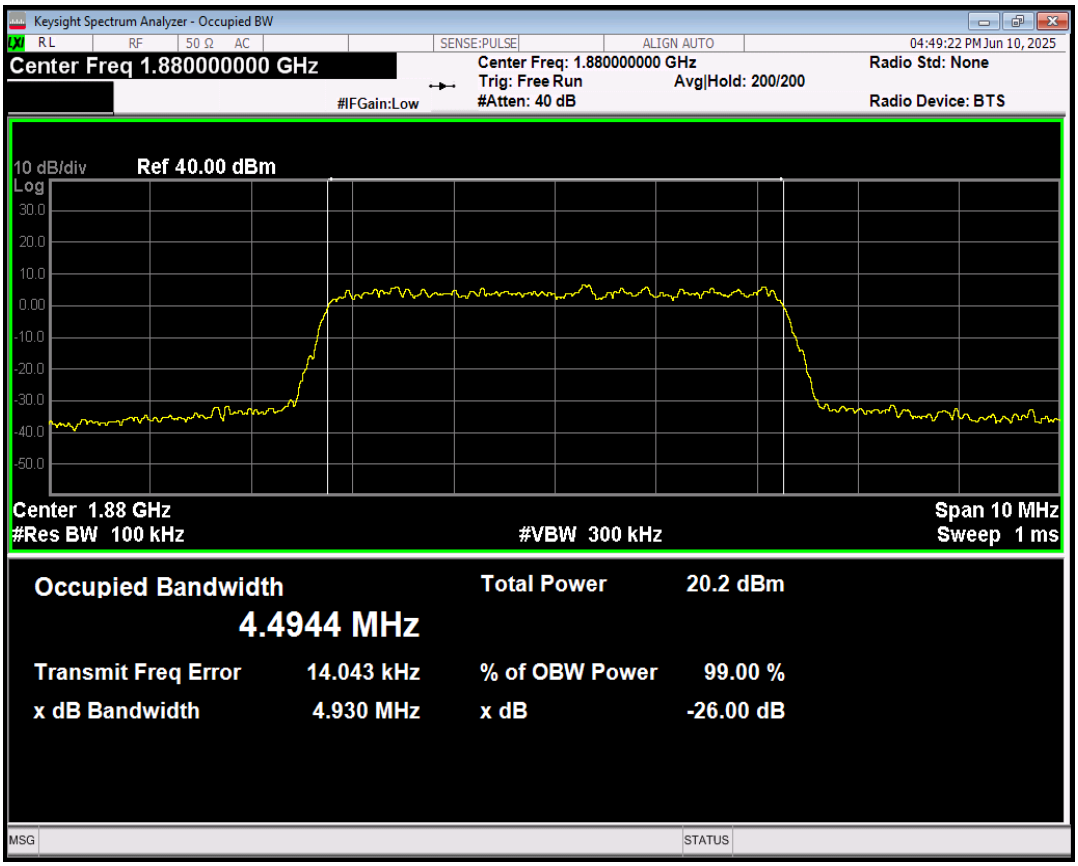
Band2 QPSK BW=3MHz Channel=18900 RB Size=15 Position=#0



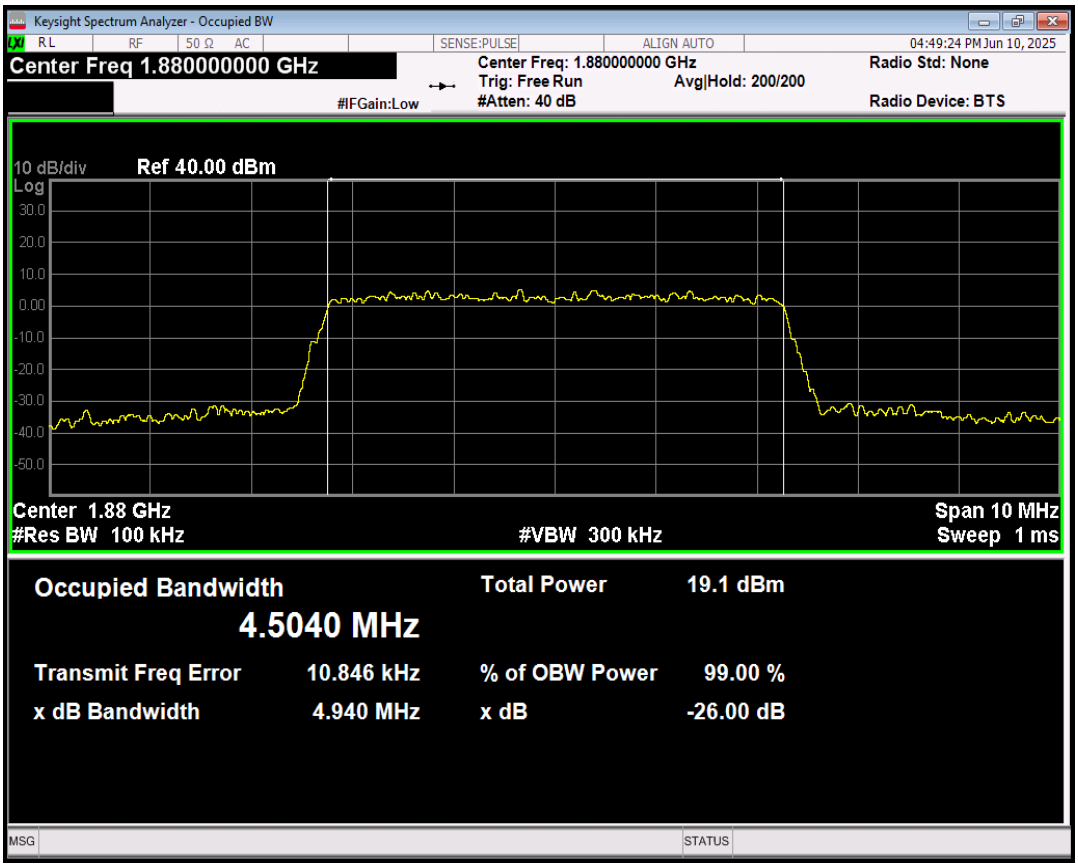
Band2 16QAM BW=3MHz Channel=18900 RB Size=15 Position=#0



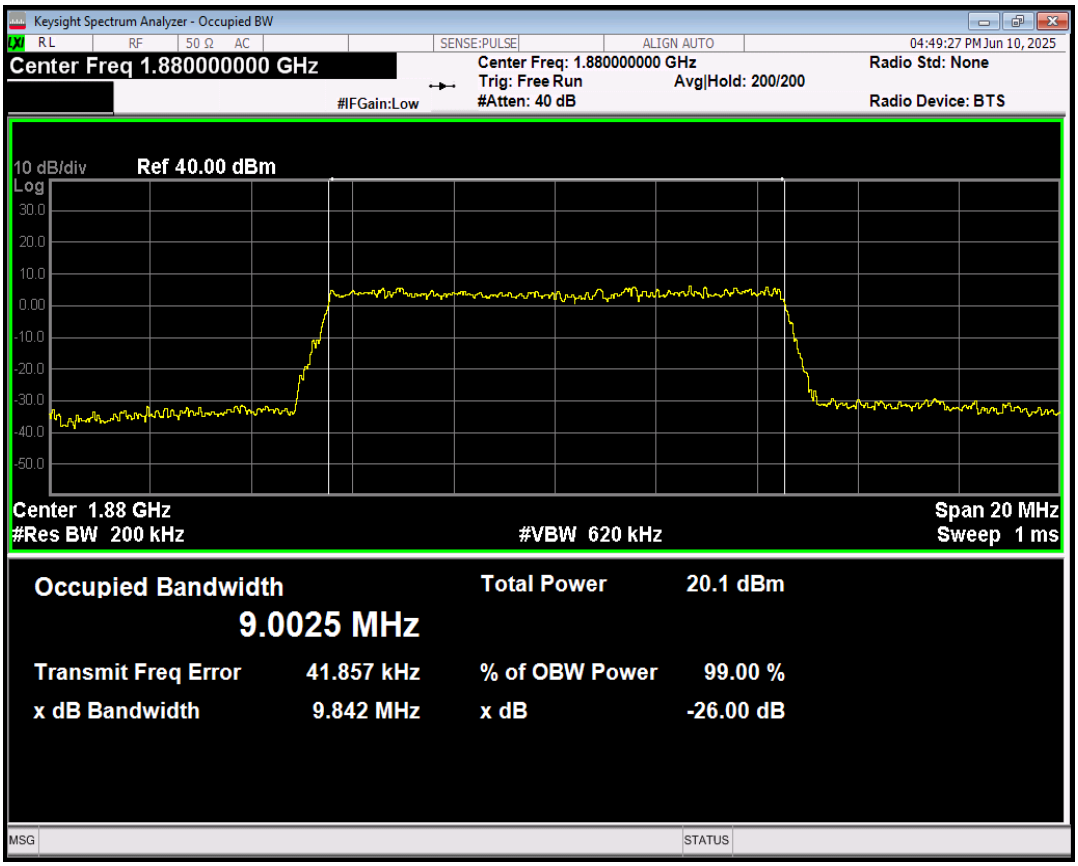
Band2 QPSK BW=5MHz Channel=18900 RB Size=25 Position=#0



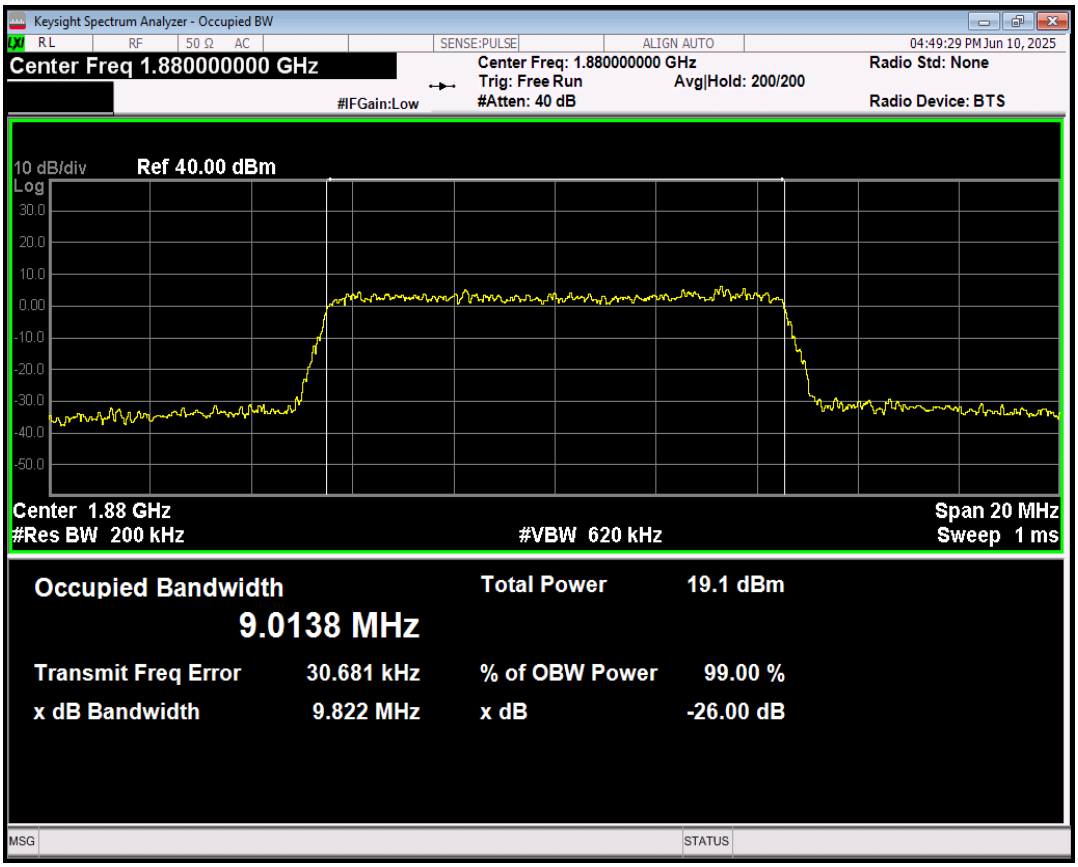
Band2 16QAM BW=5MHz Channel=18900 RB Size=25 Position=#0



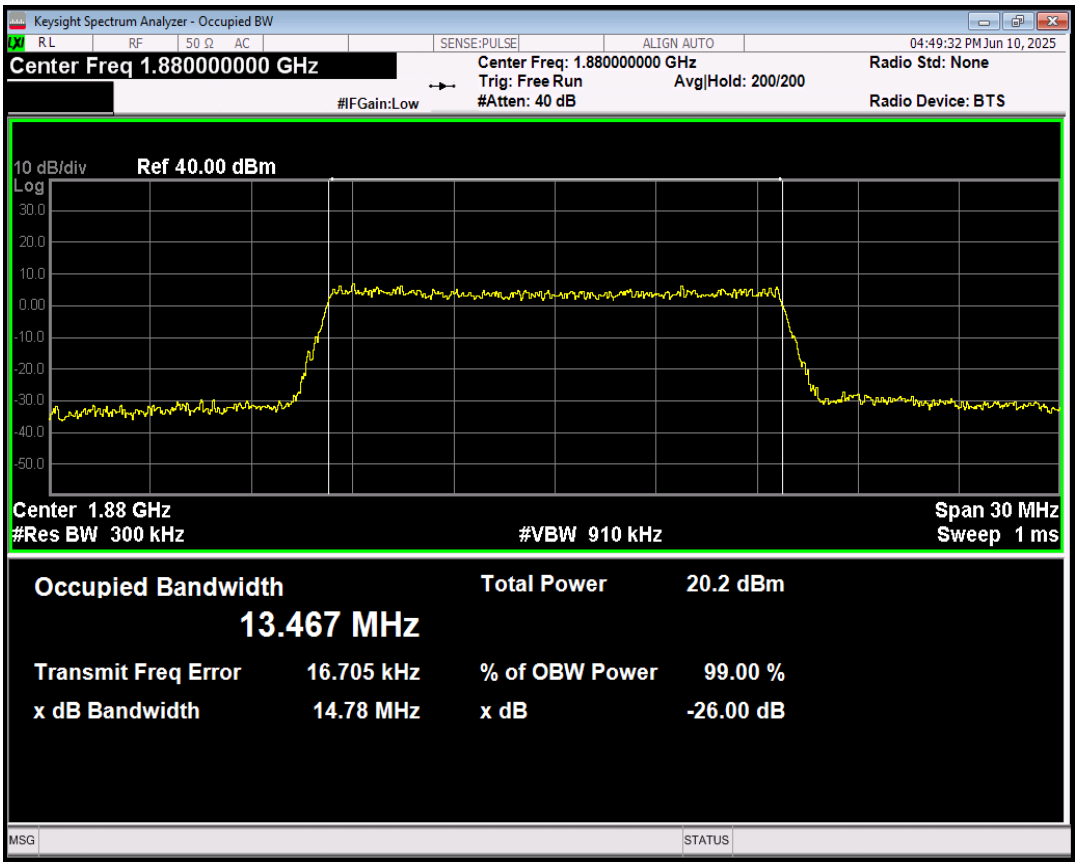
Band2 QPSK BW=10MHz Channel=18900 RB Size=50 Position=#0



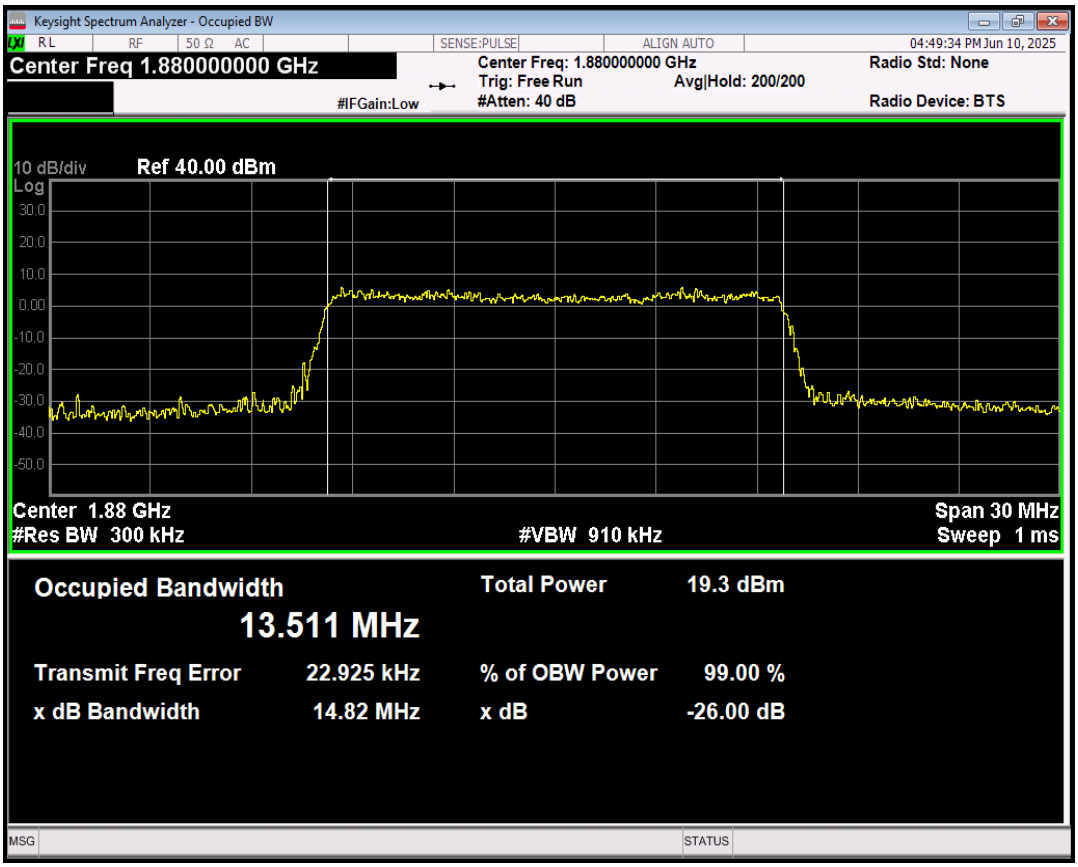
Band2 16QAM BW=10MHz Channel=18900 RB Size=50 Position=#0



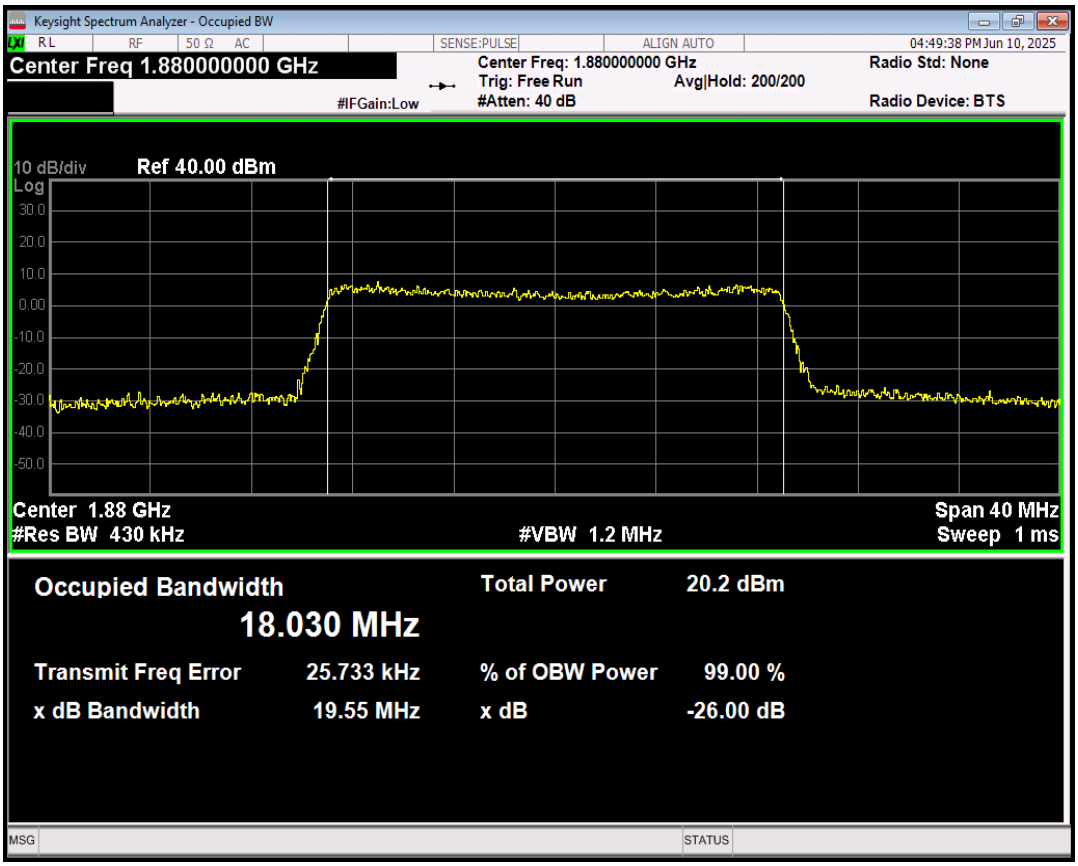
Band2 QPSK BW=15MHz Channel=18900 RB Size=75 Position=#0



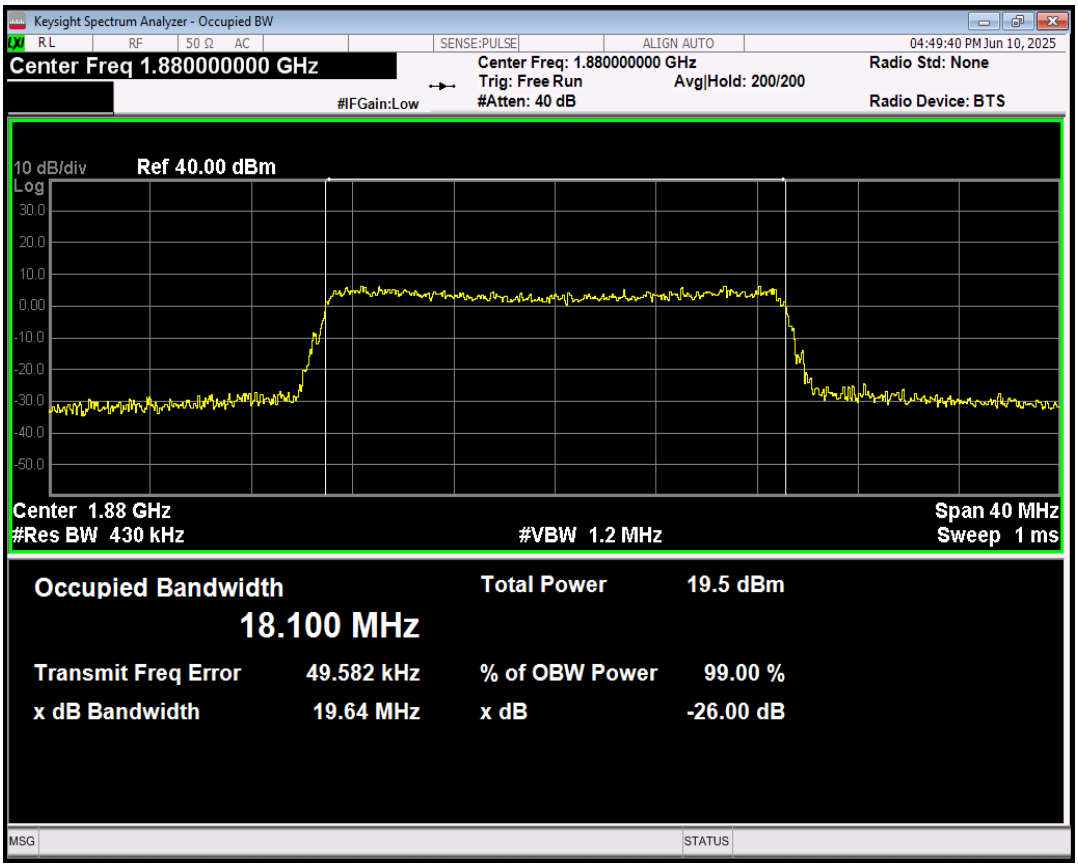
Band2 16QAM BW=15MHz Channel=18900 RB Size=75 Position=#0



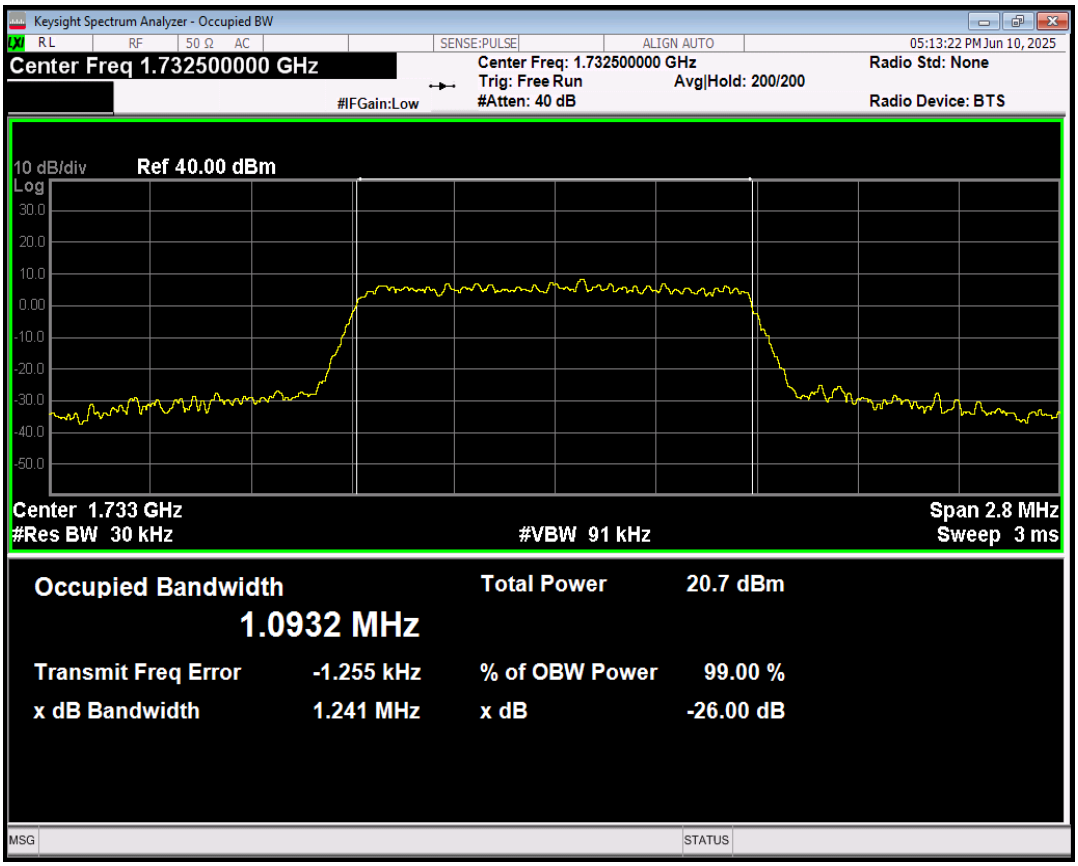
Band2 QPSK BW=20MHz Channel=18900 RB Size=100 Position=#0



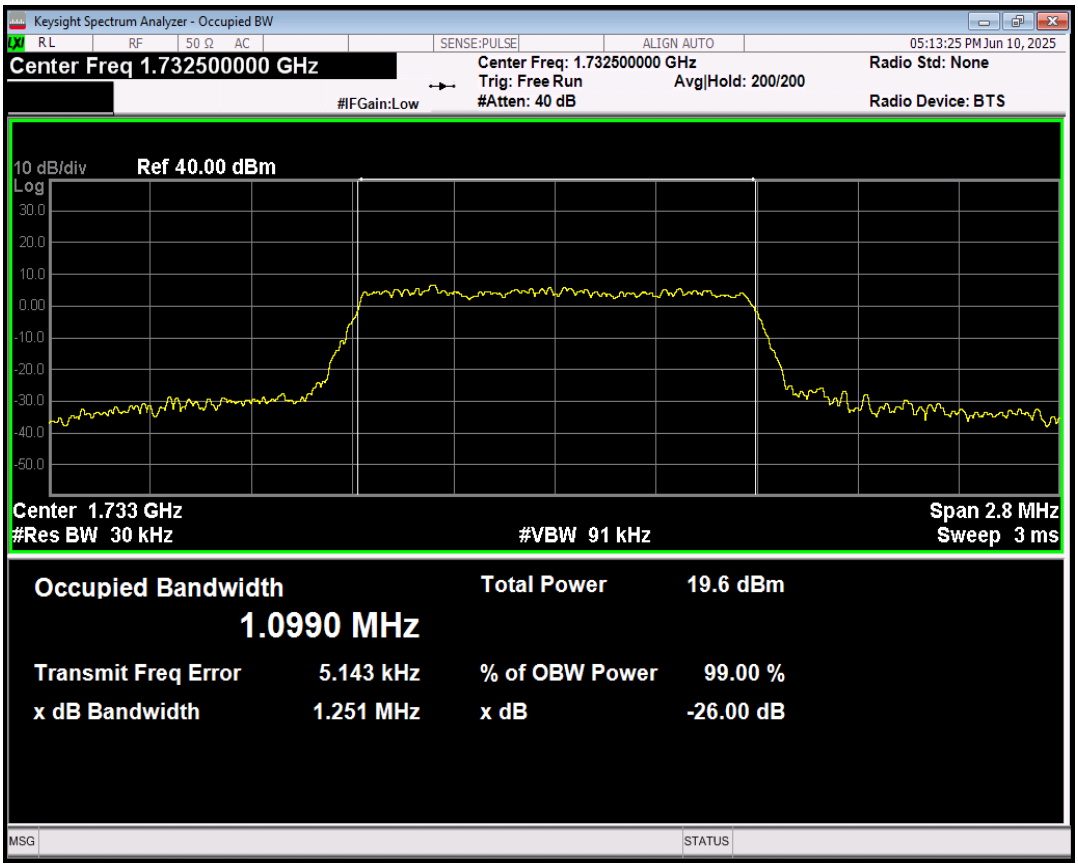
Band2 16QAM BW=20MHz Channel=18900 RB Size=100 Position=#0



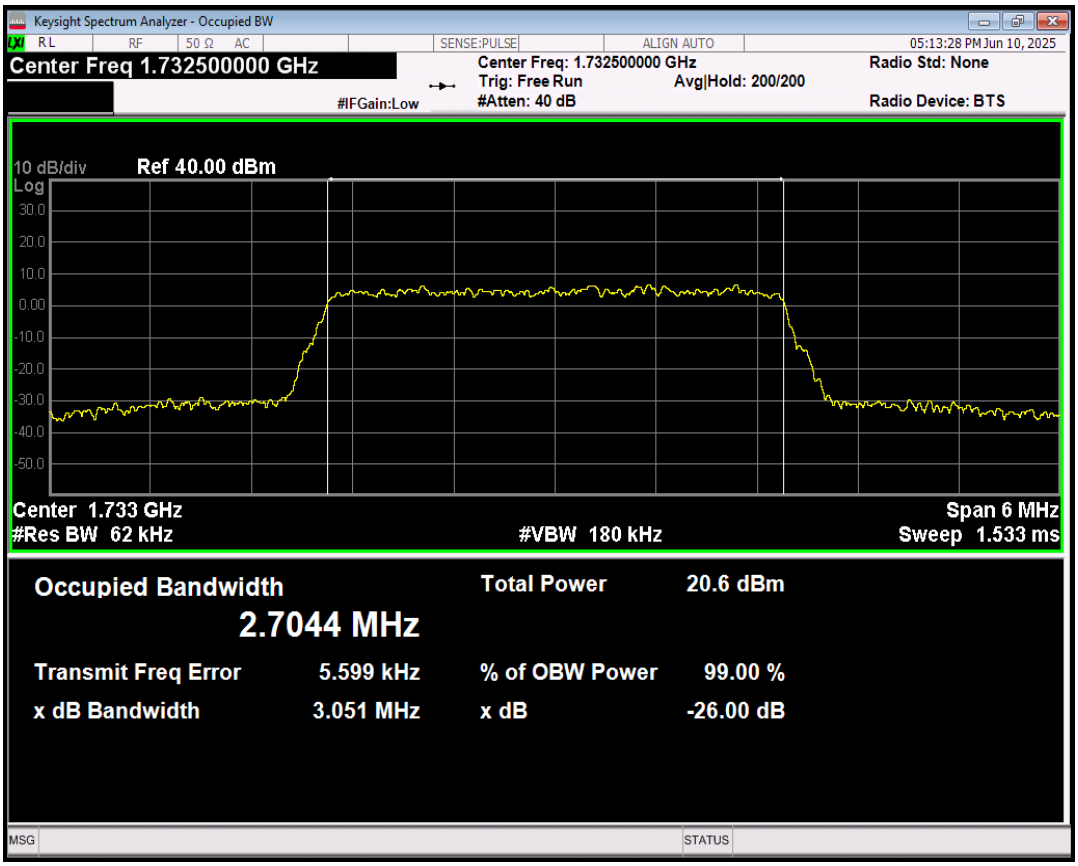
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0



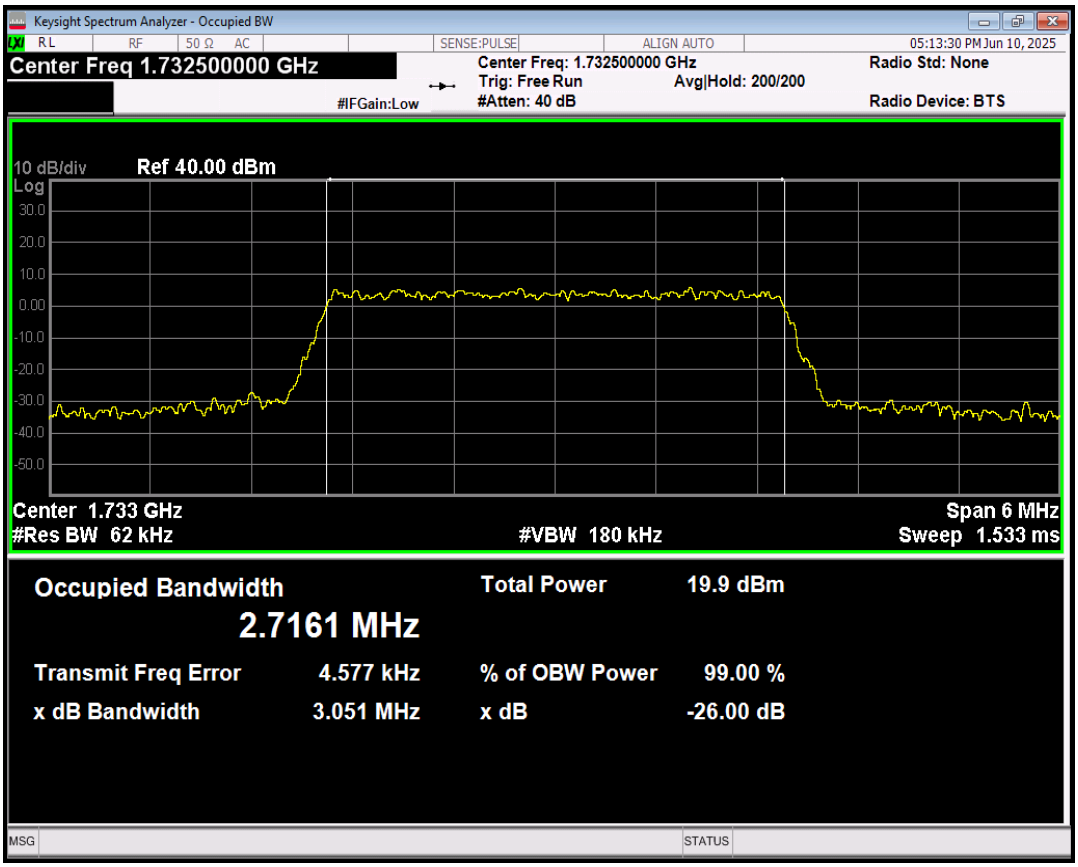
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0



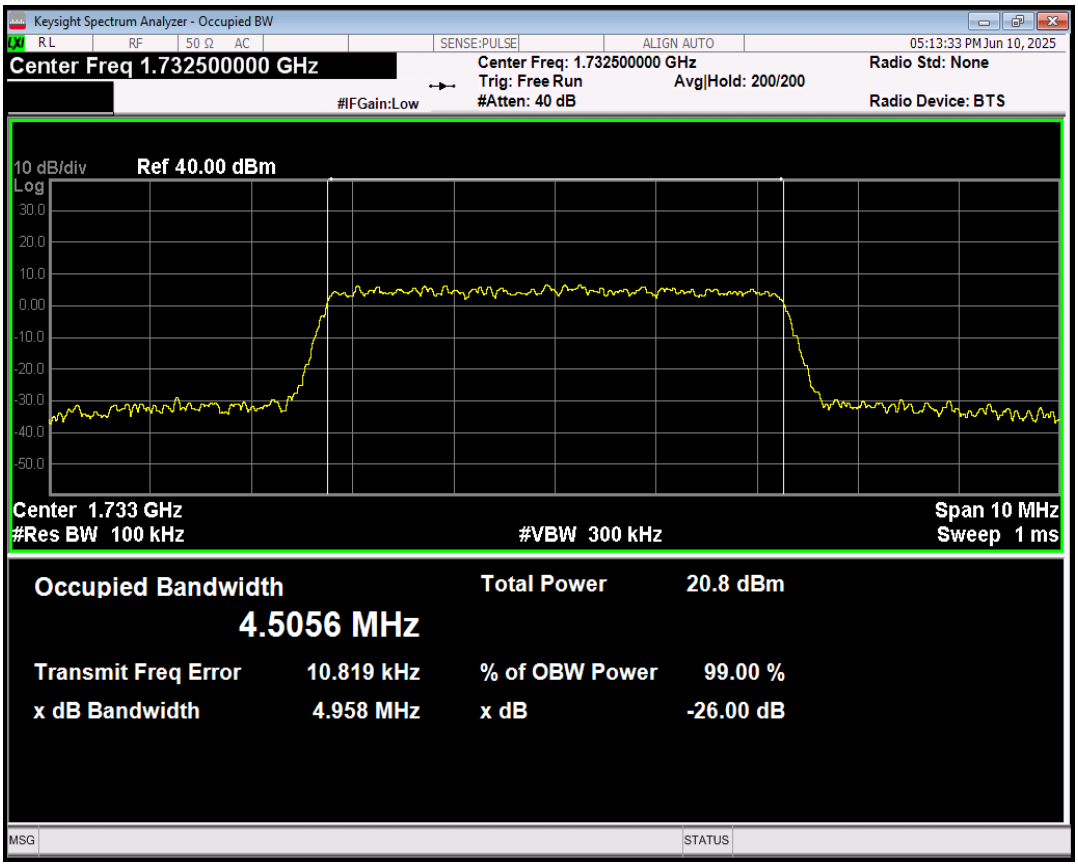
Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0



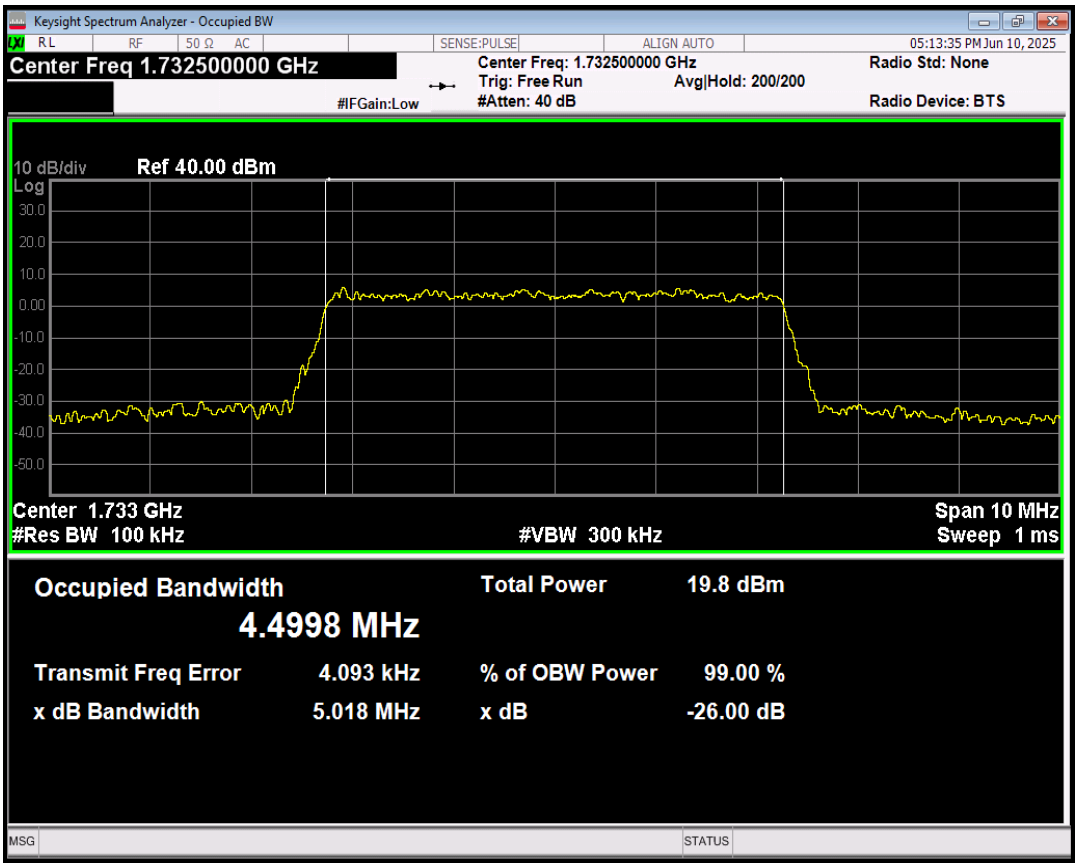
Band4 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0



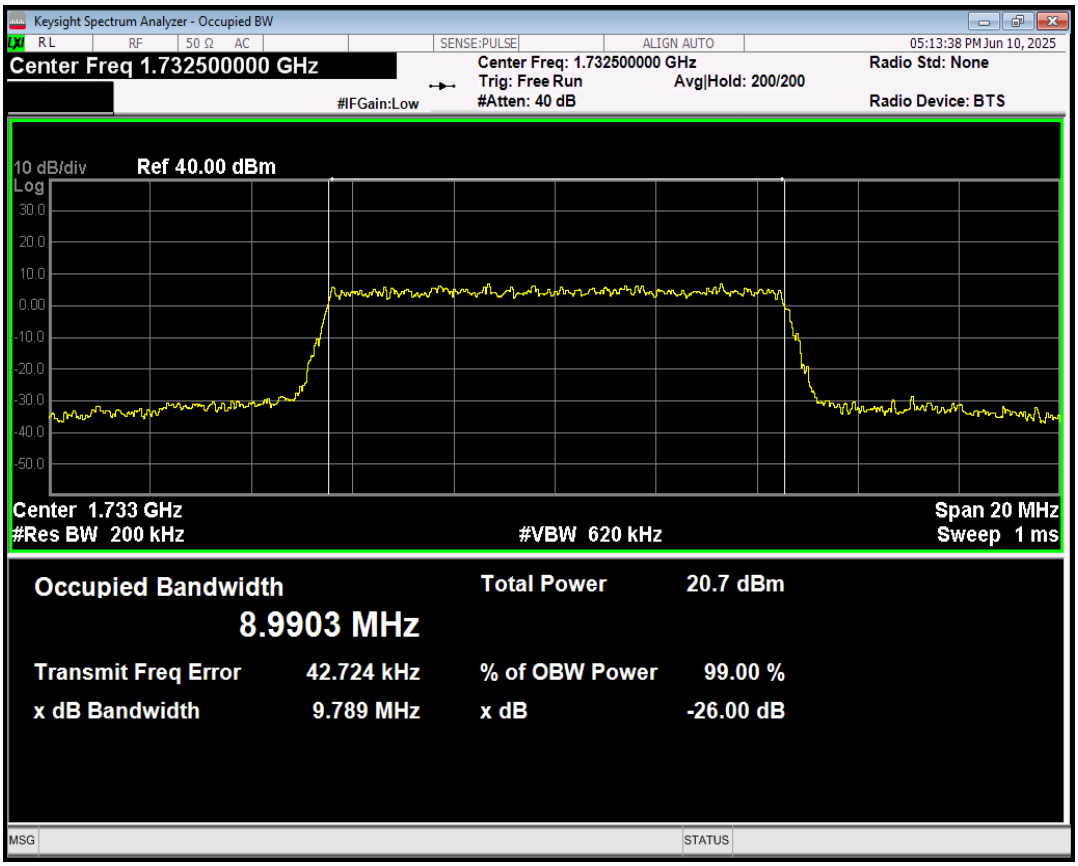
Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0



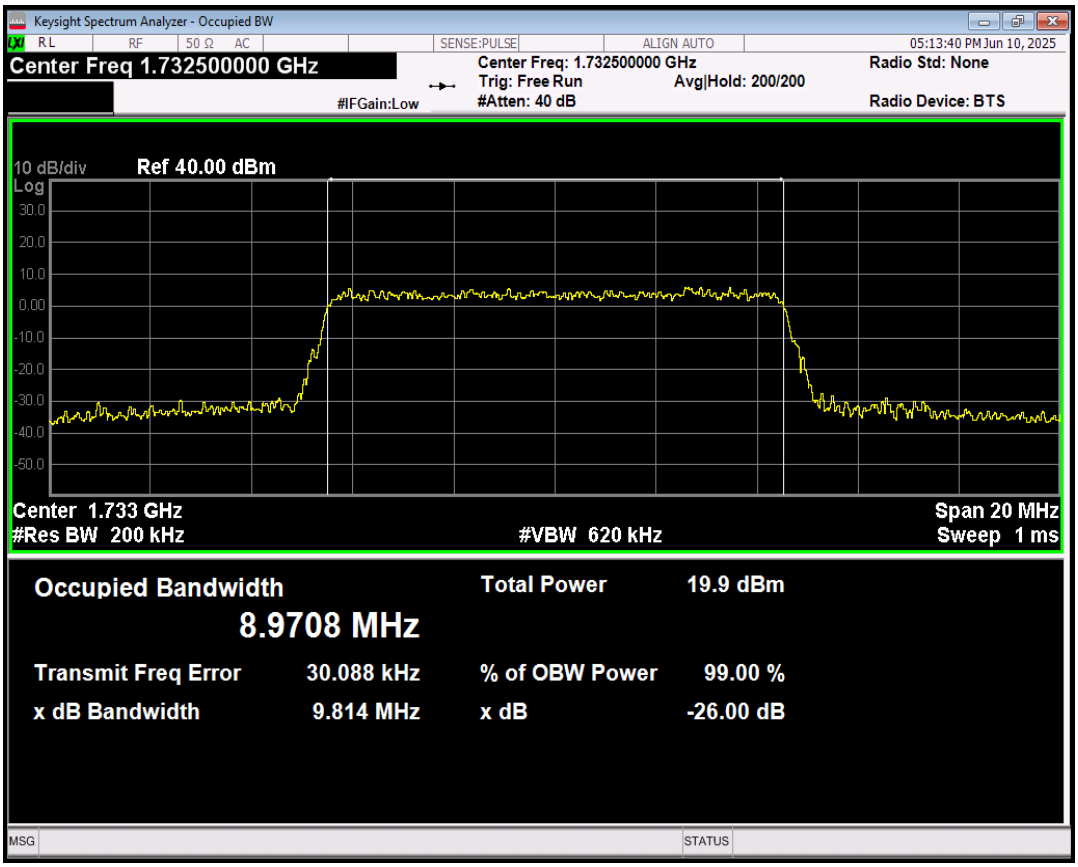
Band4 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0



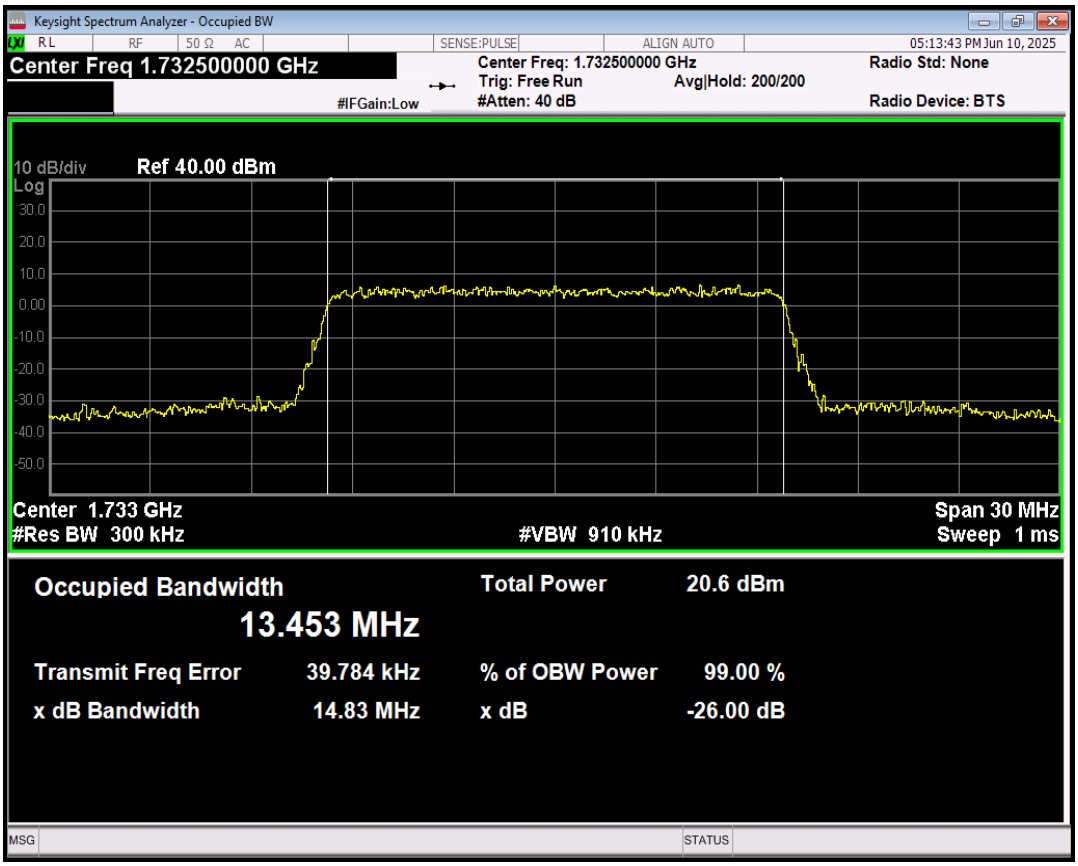
Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0



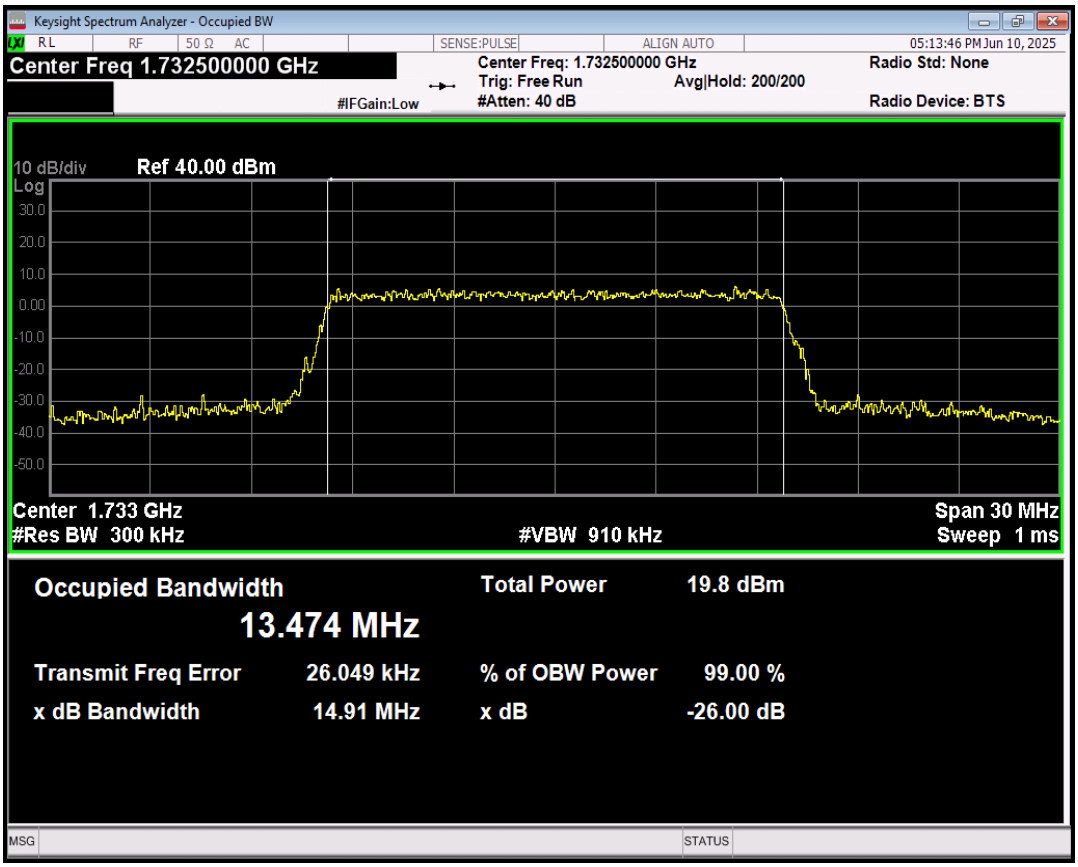
Band4 16QAM BW=10MHz Channel=20175 RB Size=50 Position=#0



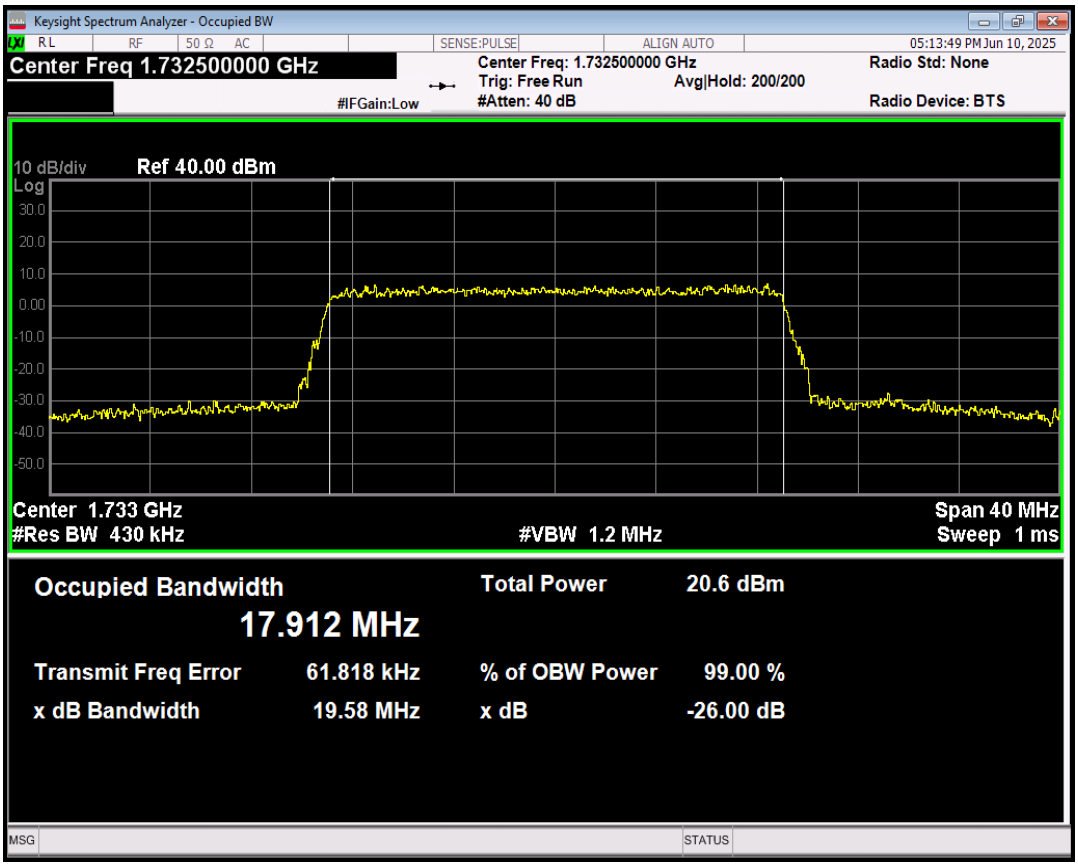
Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0



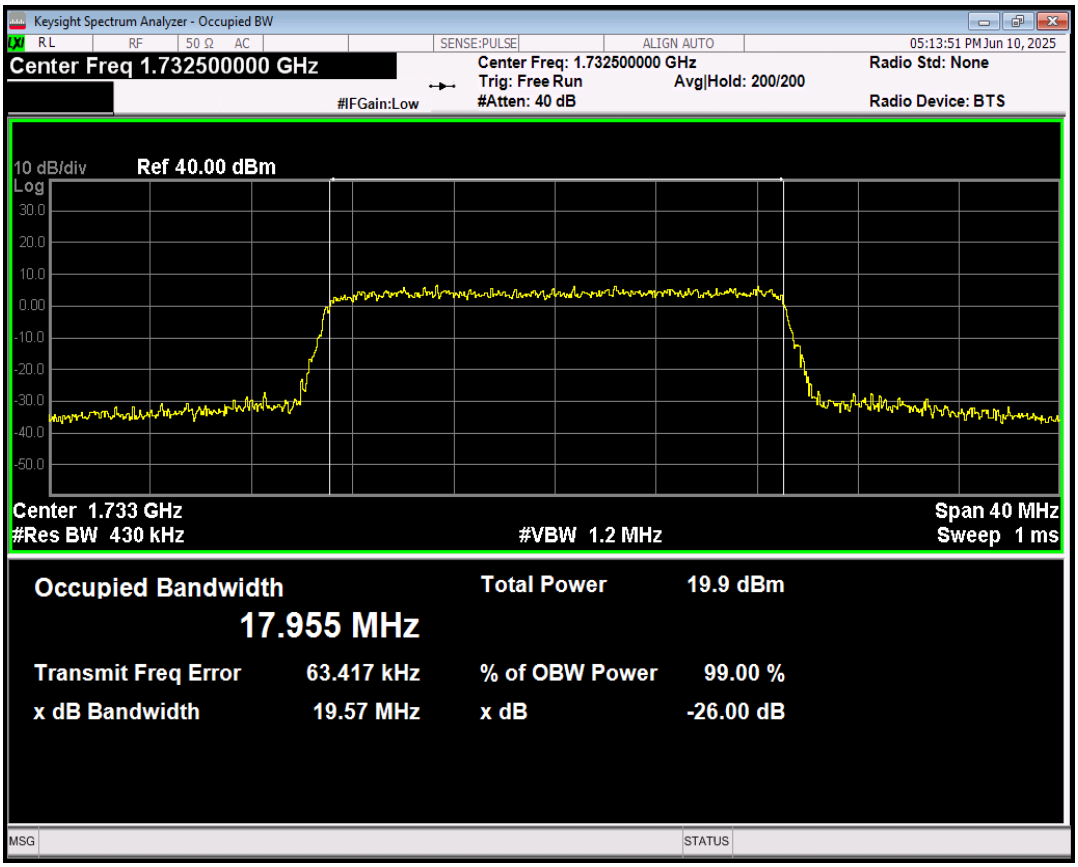
Band4 16QAM BW=15MHz Channel=20175 RB Size=75 Position=#0



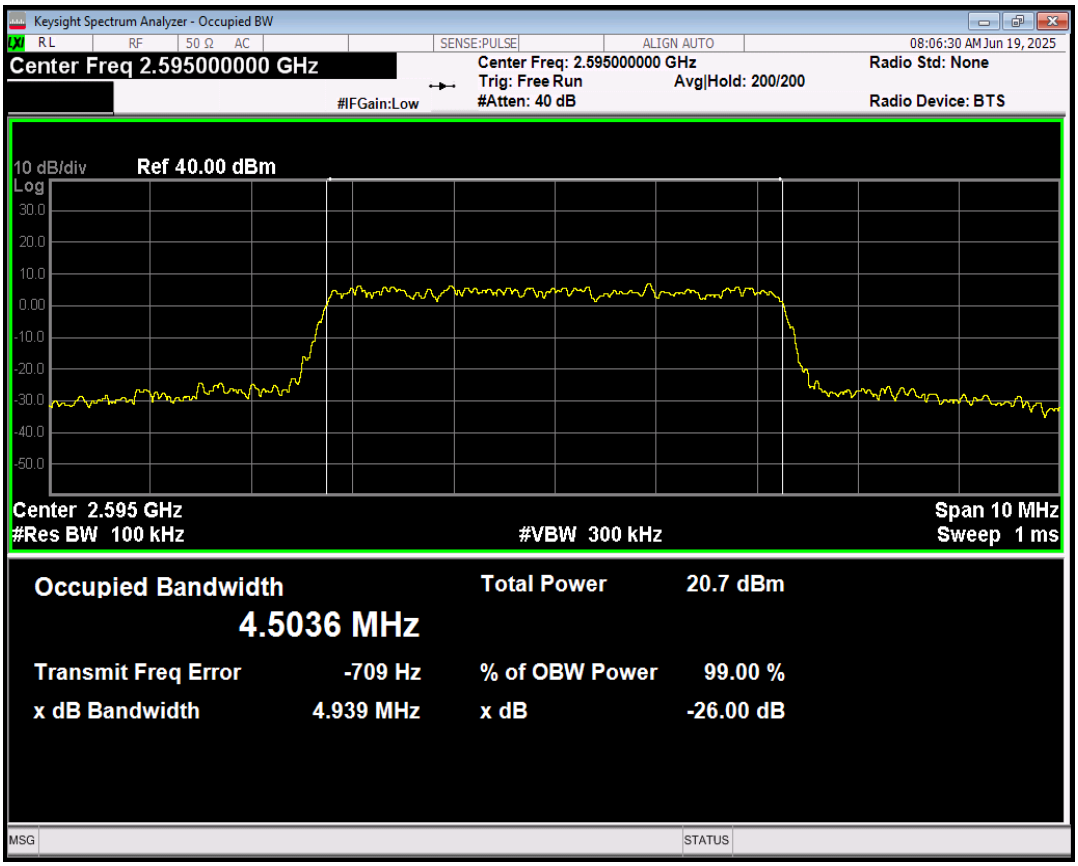
Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0



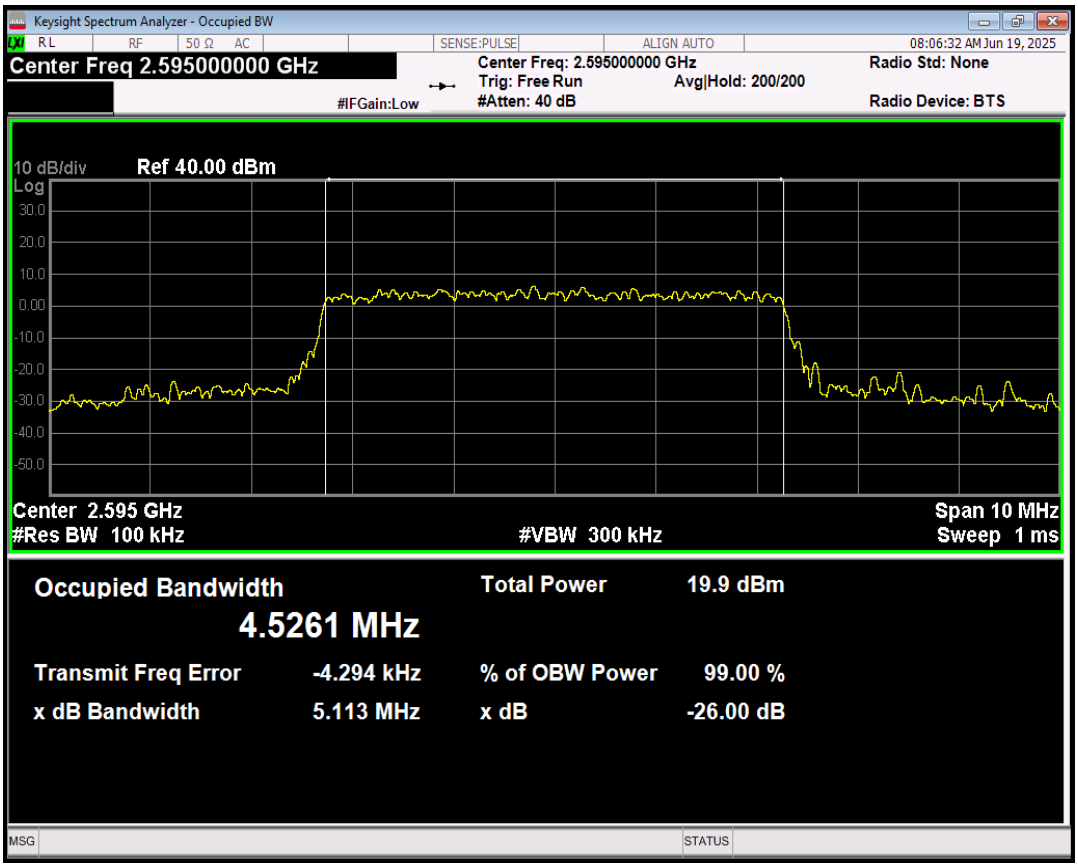
Band4 16QAM BW=20MHz Channel=20175 RB Size=100 Position=#0



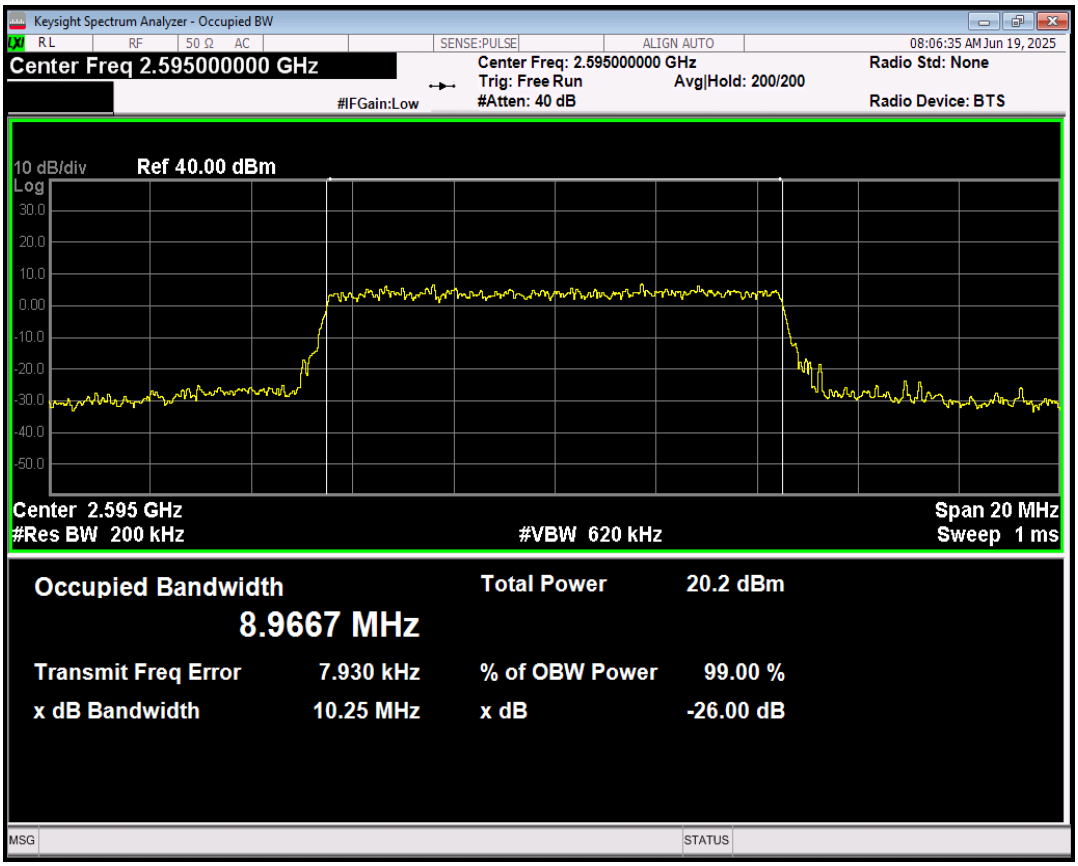
Band41(2535-2655) QPSK BW=5MHz Channel=40640 RB Size=25 Position=#0



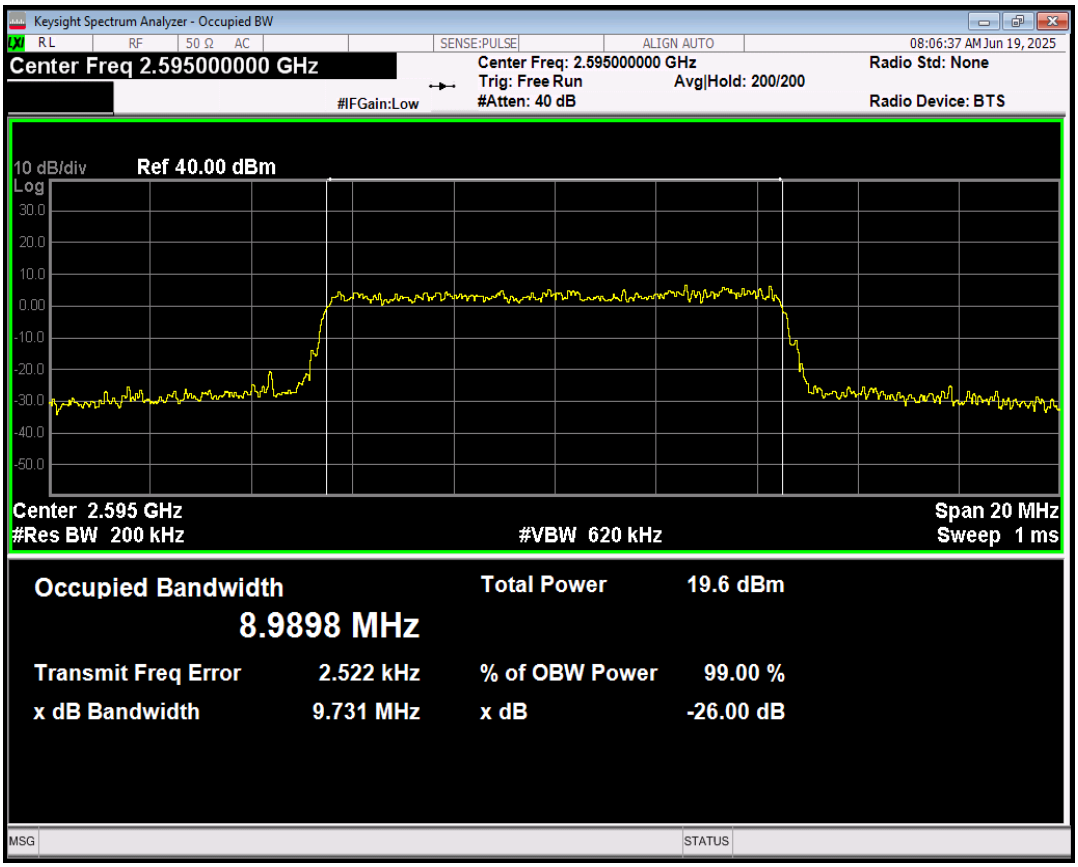
Band41(2535-2655) 16QAM BW=5MHz Channel=40640 RB Size=25 Position=#0



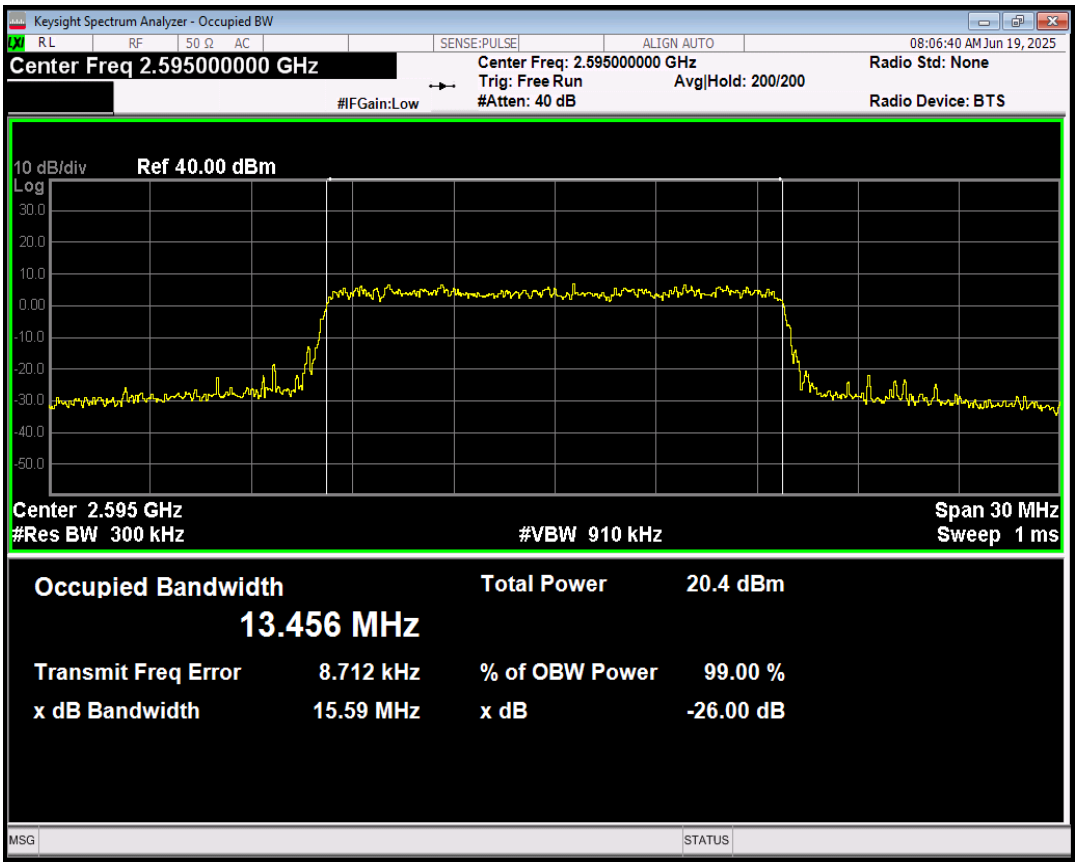
Band41(2535-2655) QPSK BW=10MHz Channel=40640 RB Size=50 Position=#0



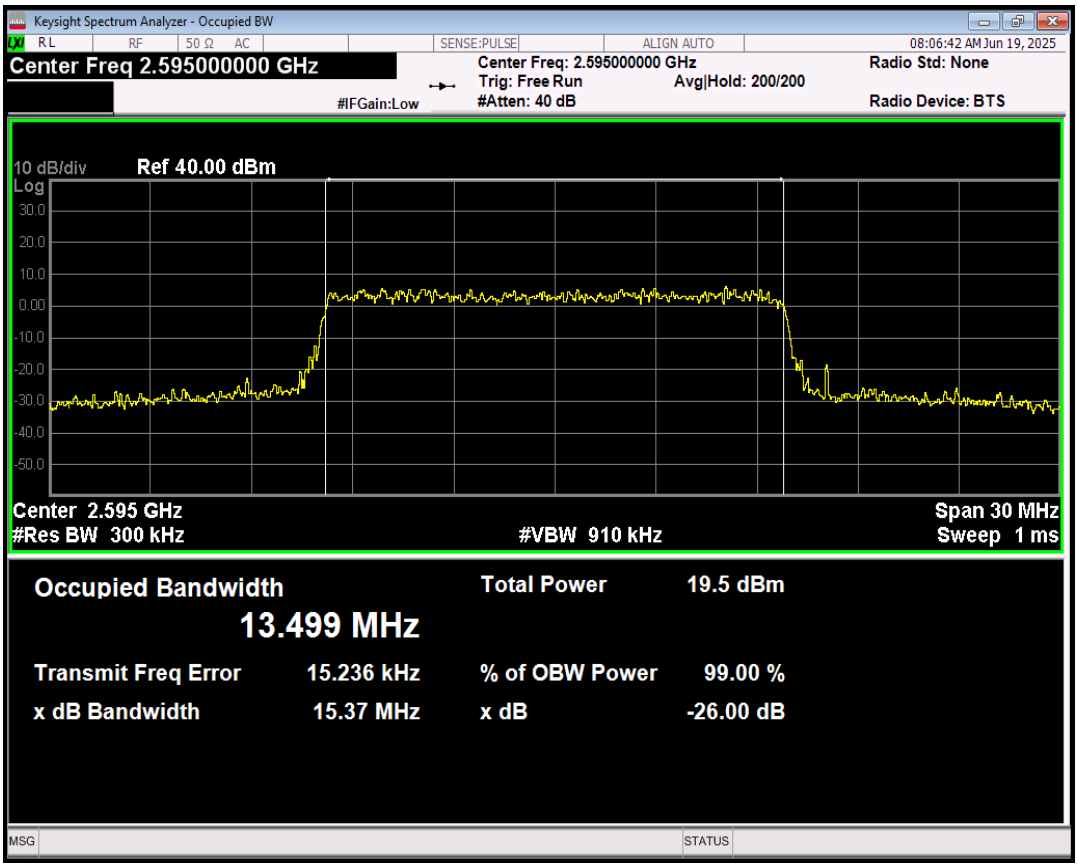
Band41(2535-2655) 16QAM BW=10MHz Channel=40640 RB Size=50 Position=#0



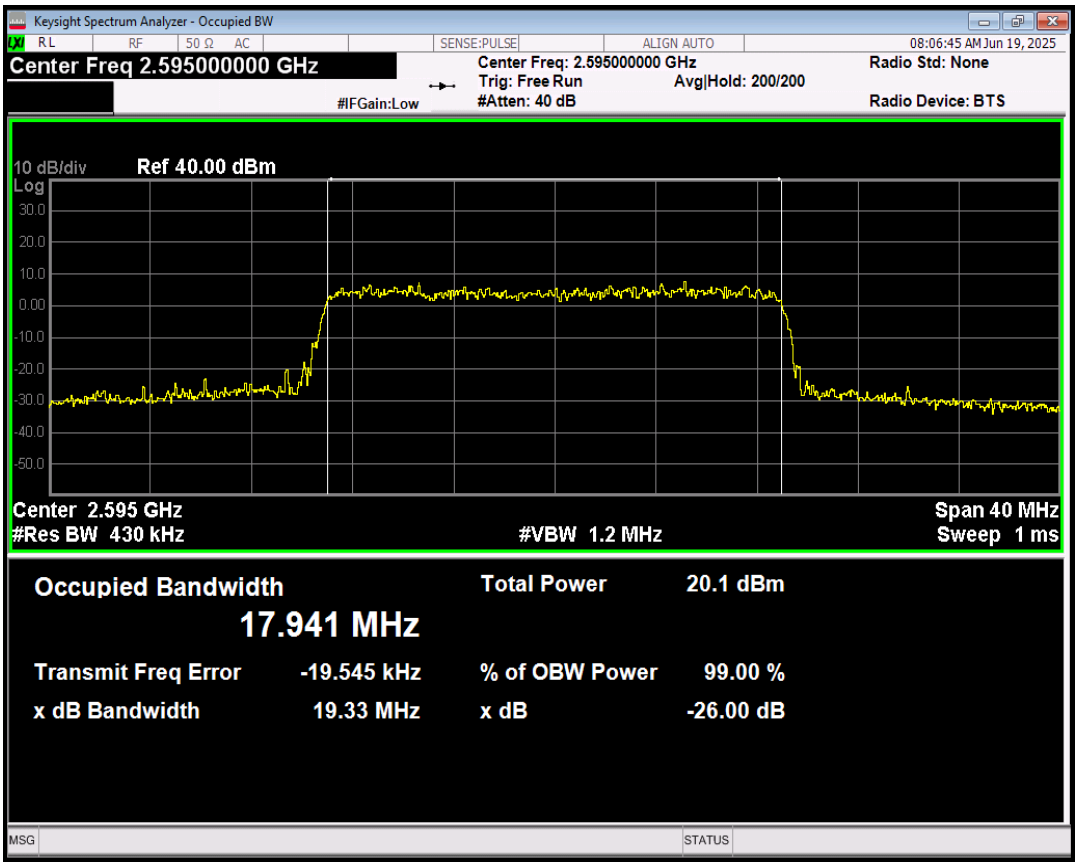
Band41(2535-2655) QPSK BW=15MHz Channel=40640 RB Size=75 Position=#0



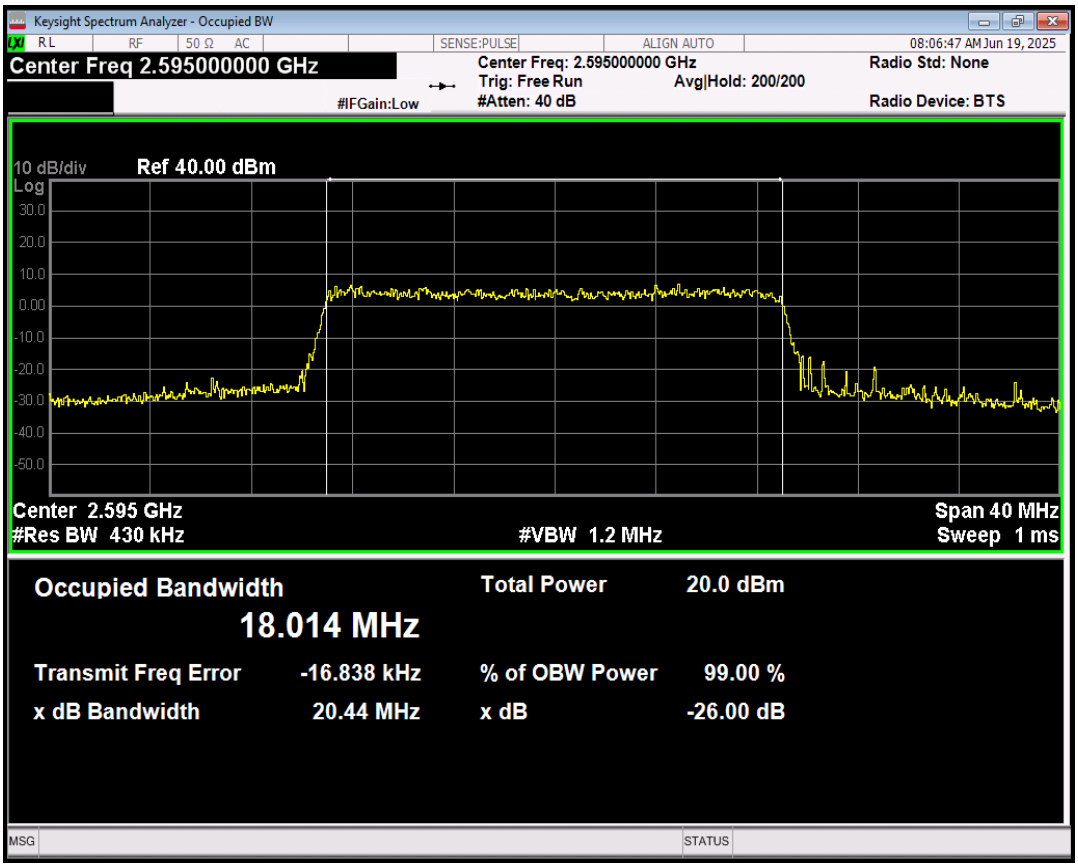
Band41(2535-2655) 16QAM BW=15MHz Channel=40640 RB Size=75 Position=#0



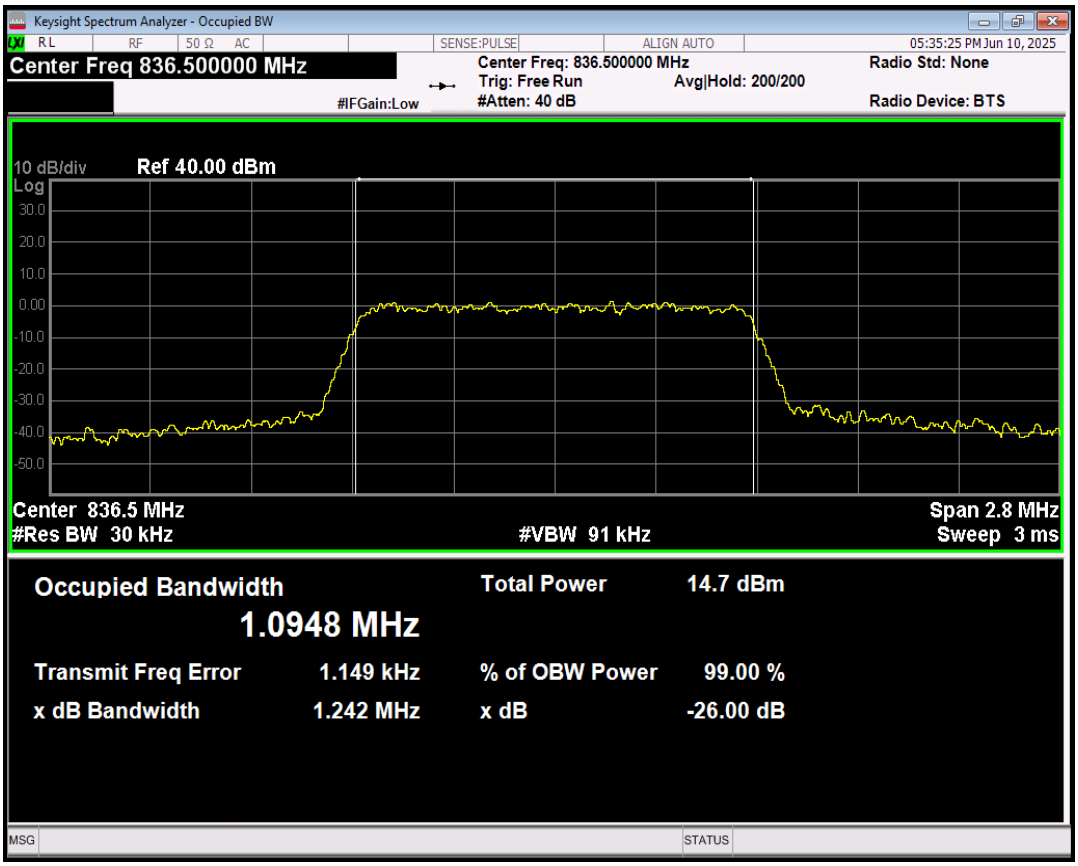
Band41(2535-2655) QPSK BW=20MHz Channel=40640 RB Size=100 Position=#0



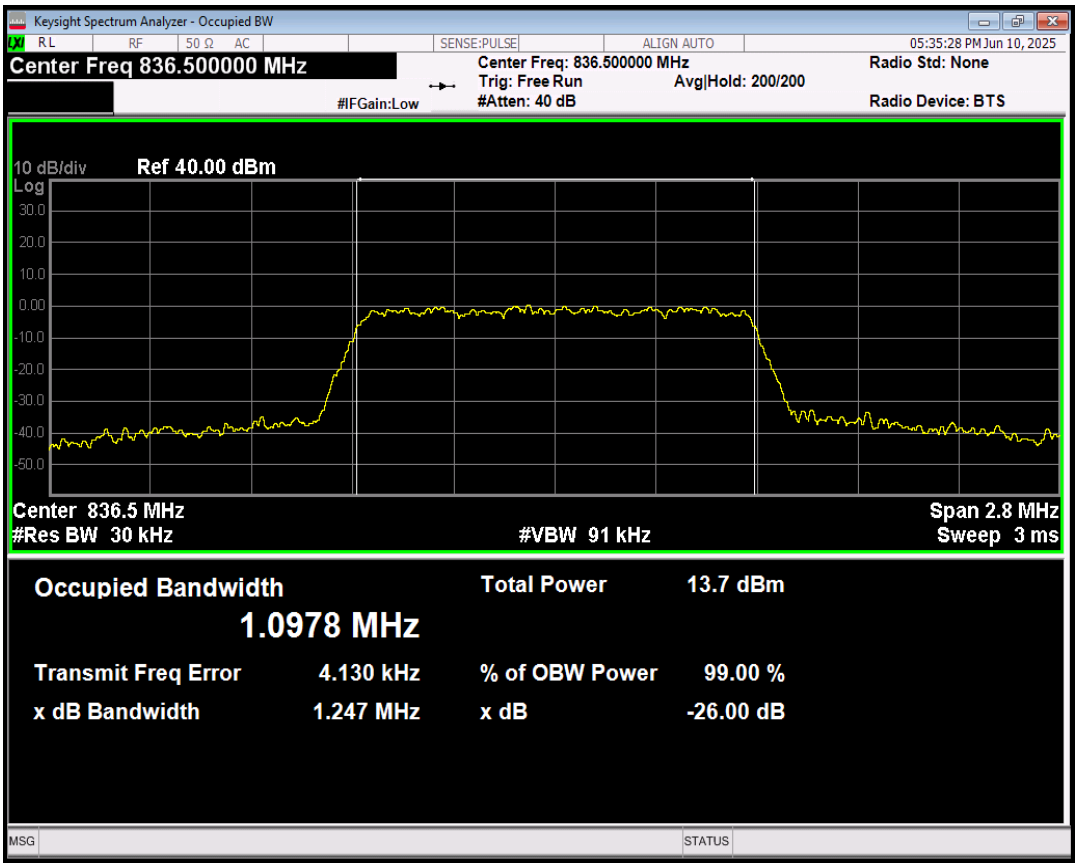
Band41(2535-2655) 16QAM BW=20MHz Channel=40640 RB Size=100 Position=#0



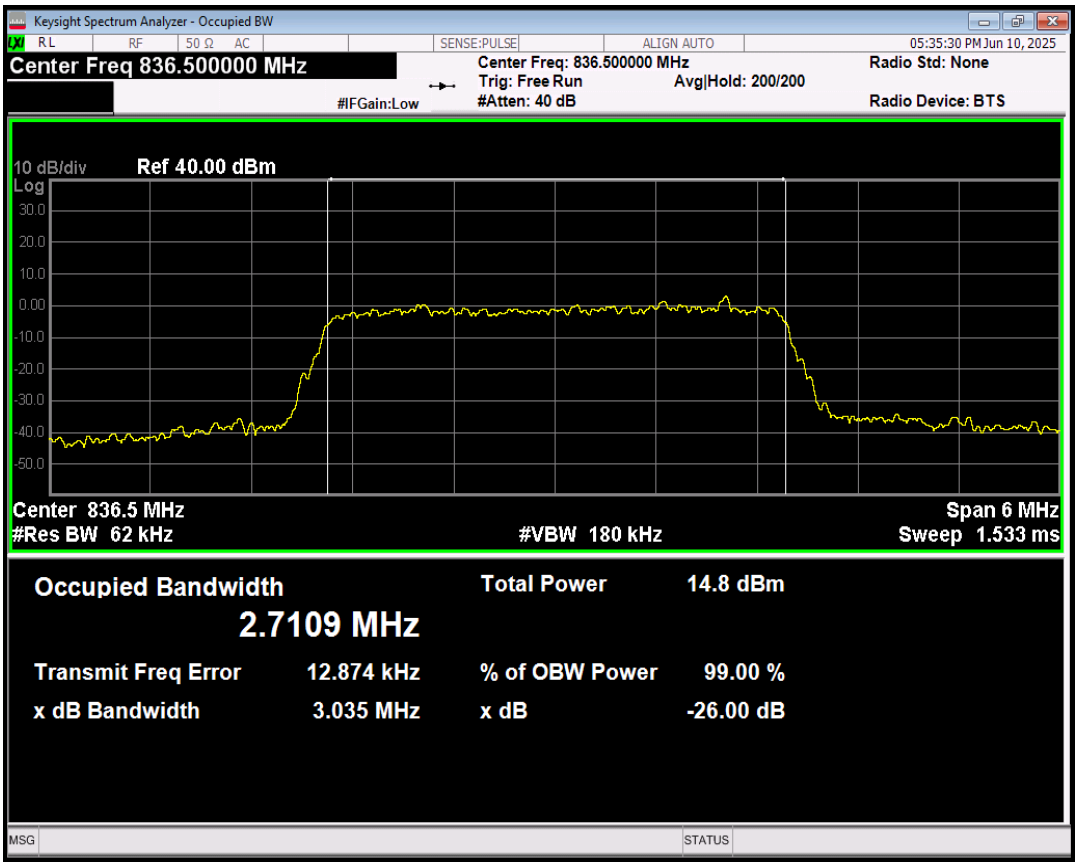
Band5 QPSK BW=1.4MHz Channel=20525 RB Size=6 Position=#0



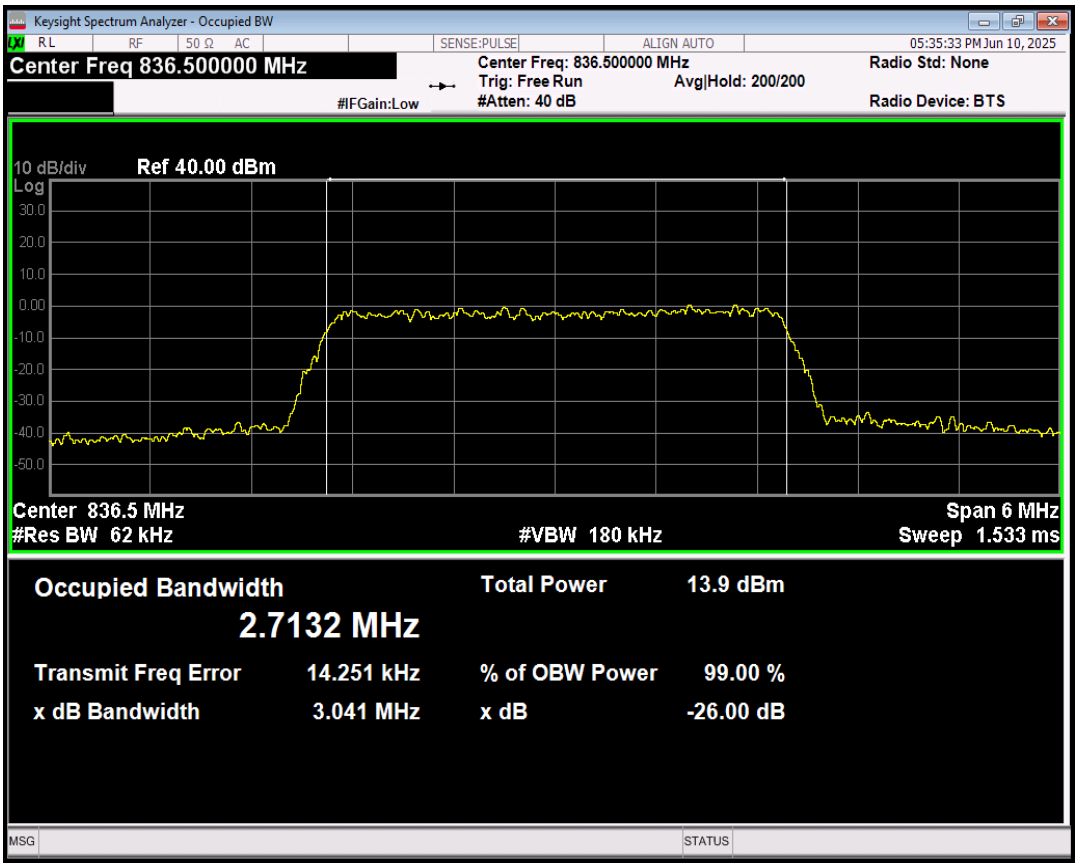
Band5 16QAM BW=1.4MHz Channel=20525 RB Size=6 Position=#0



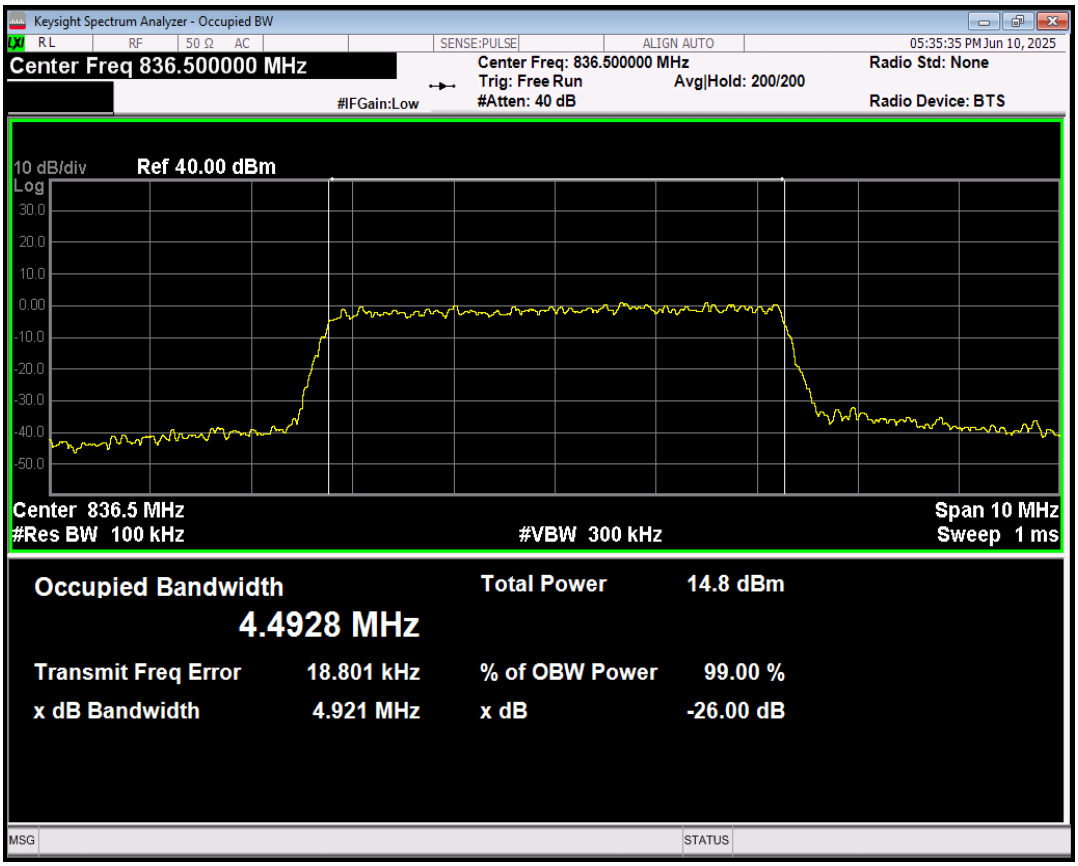
Band5 QPSK BW=3MHz Channel=20525 RB Size=15 Position=#0



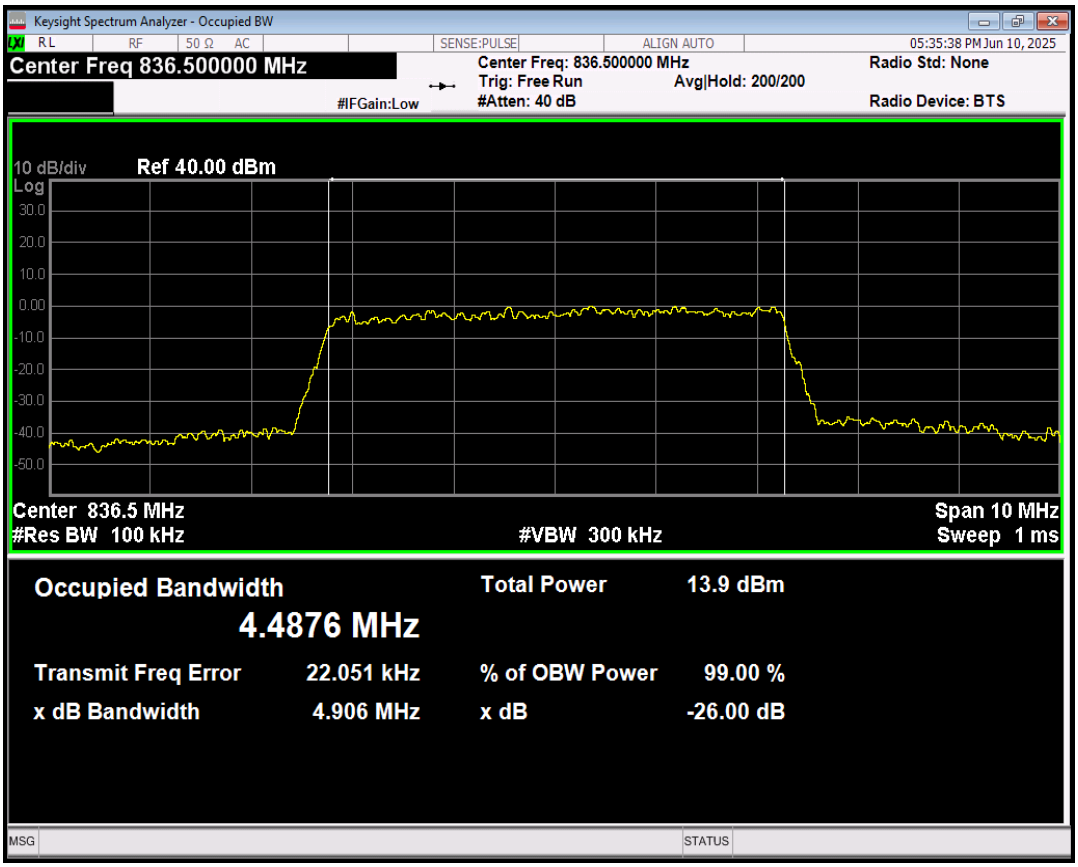
Band5 16QAM BW=3MHz Channel=20525 RB Size=15 Position=#0



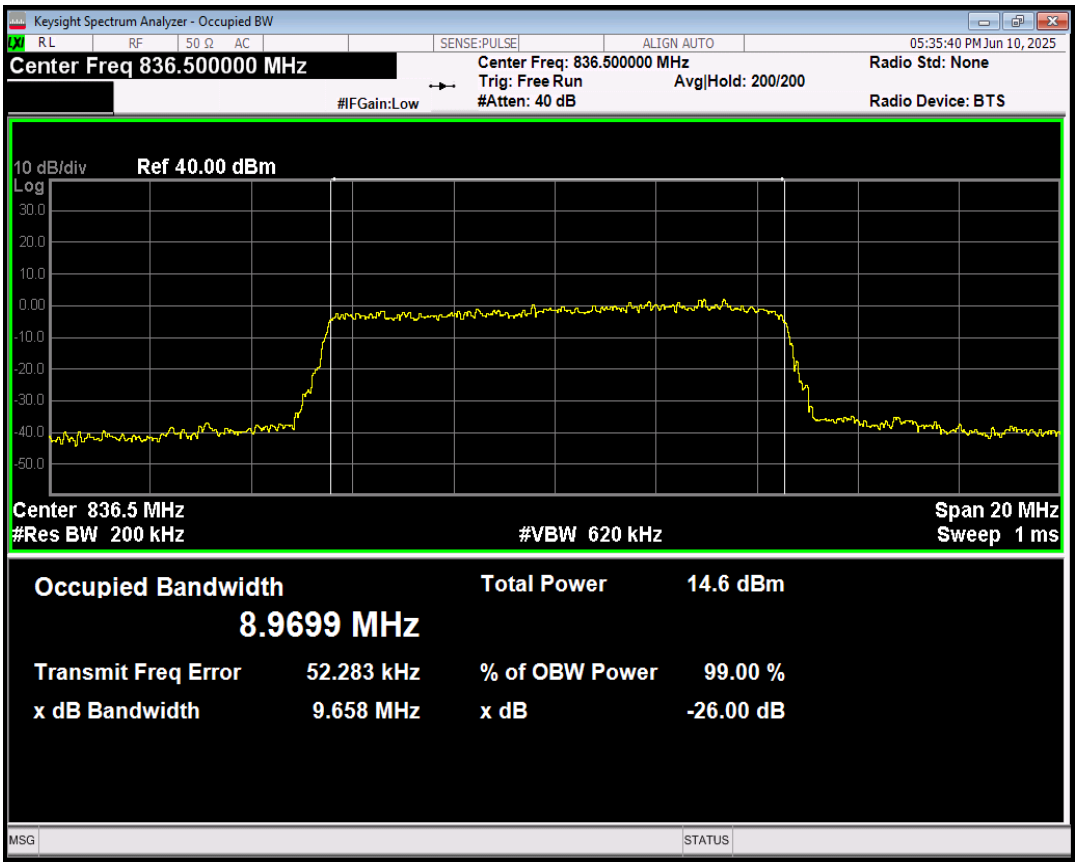
Band5 QPSK BW=5MHz Channel=20525 RB Size=25 Position=#0



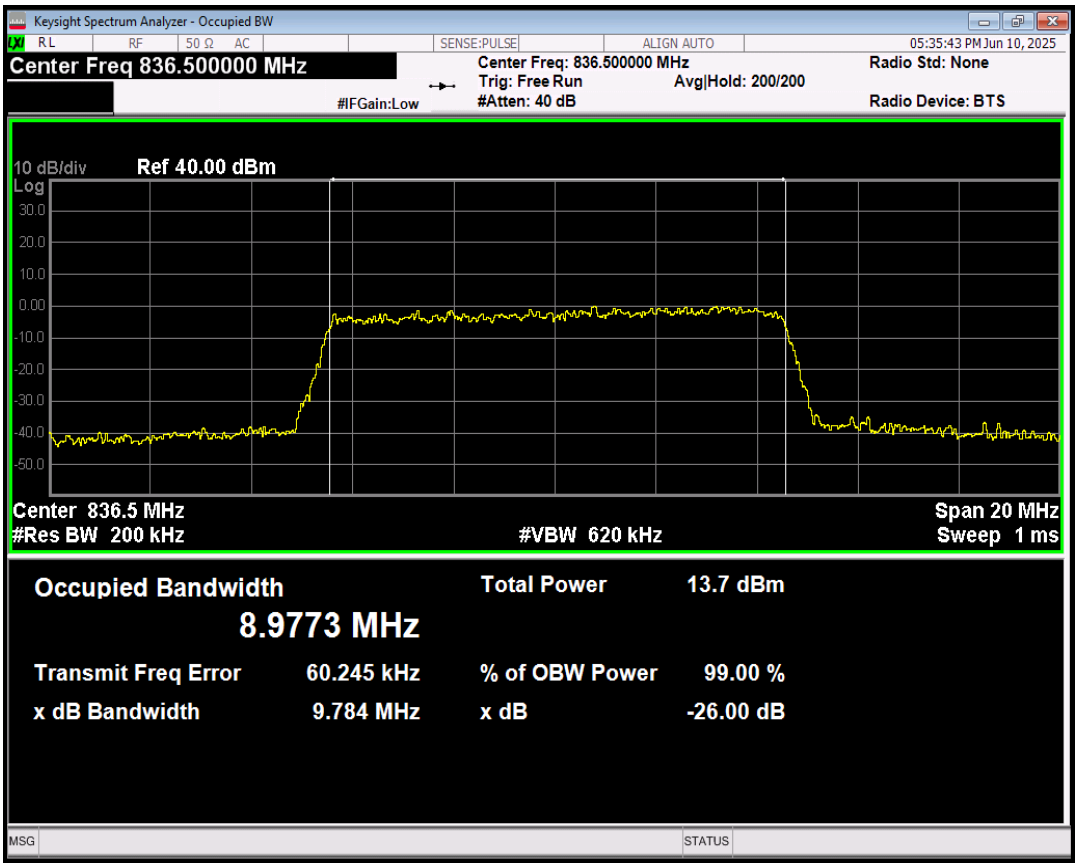
Band5 16QAM BW=5MHz Channel=20525 RB Size=25 Position=#0



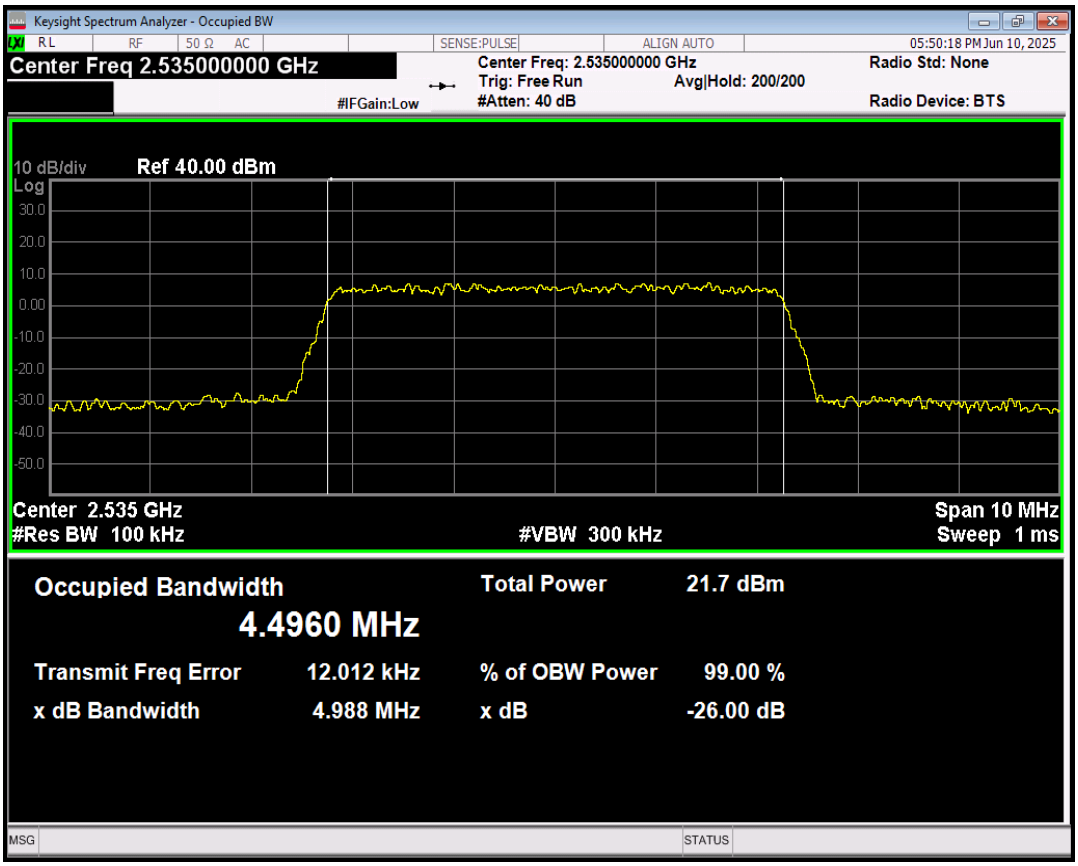
Band5 QPSK BW=10MHz Channel=20525 RB Size=50 Position=#0



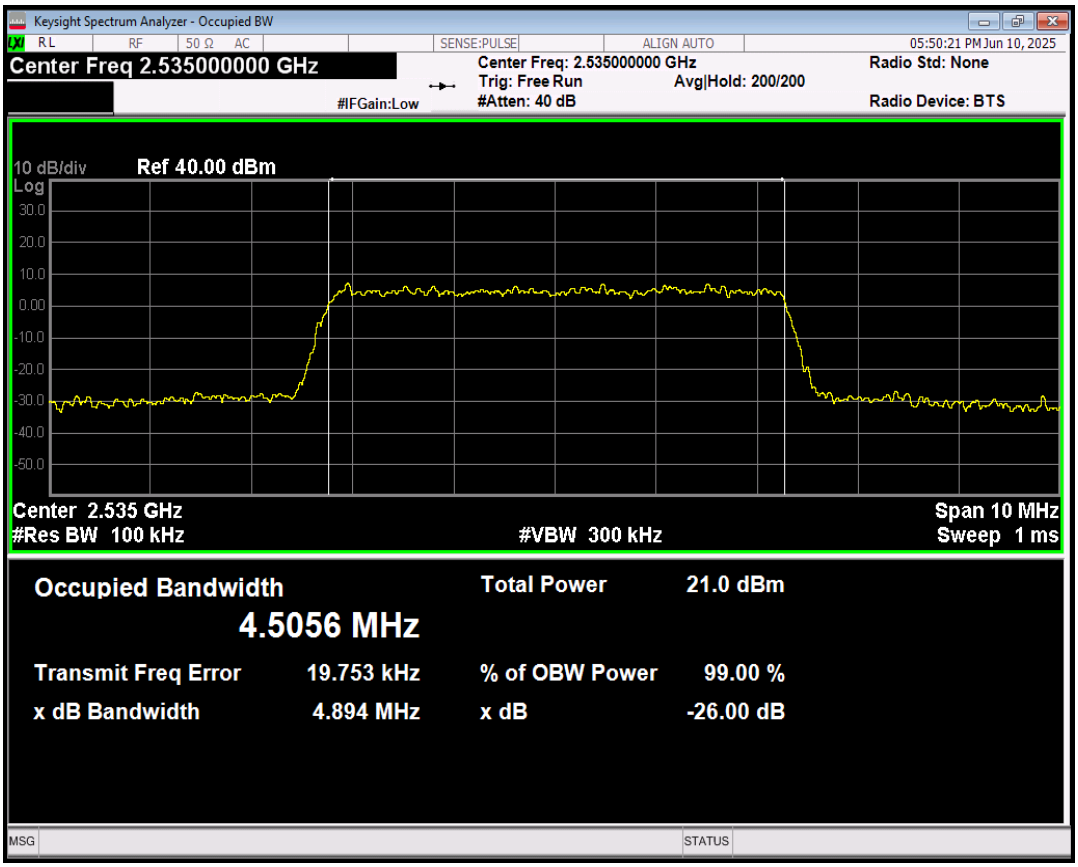
Band5 16QAM BW=10MHz Channel=20525 RB Size=50 Position=#0



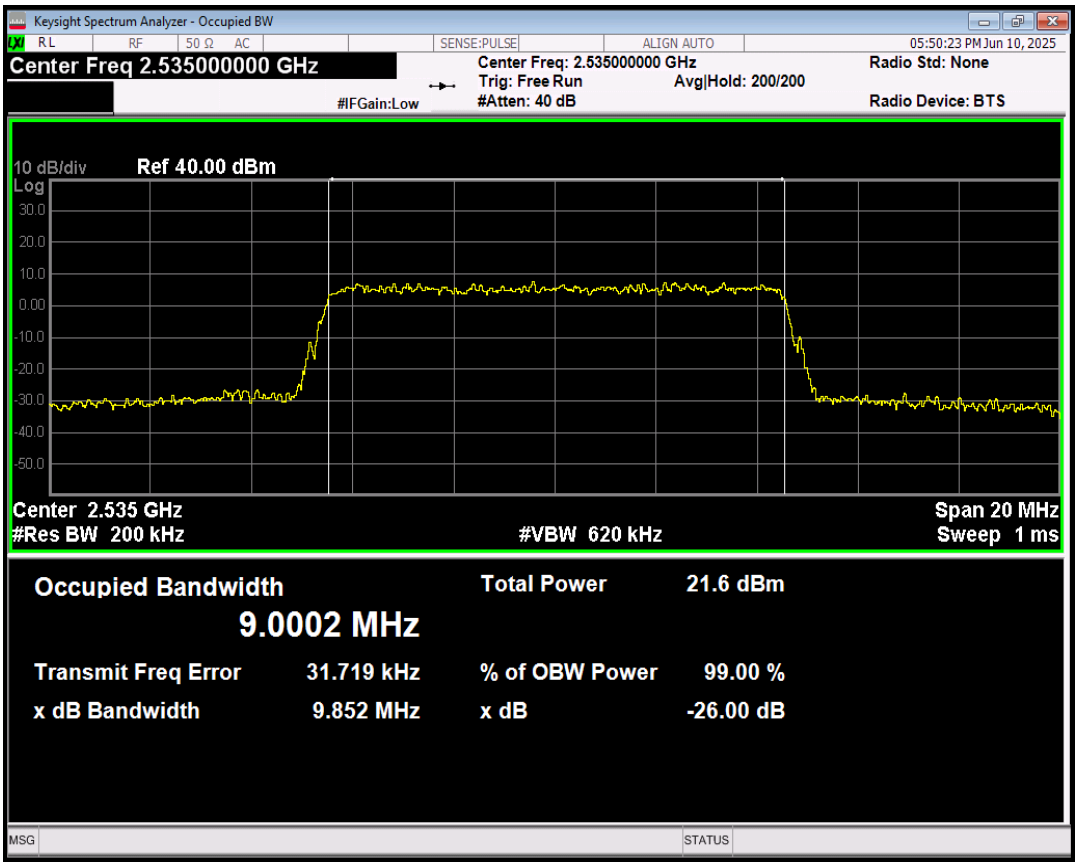
Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



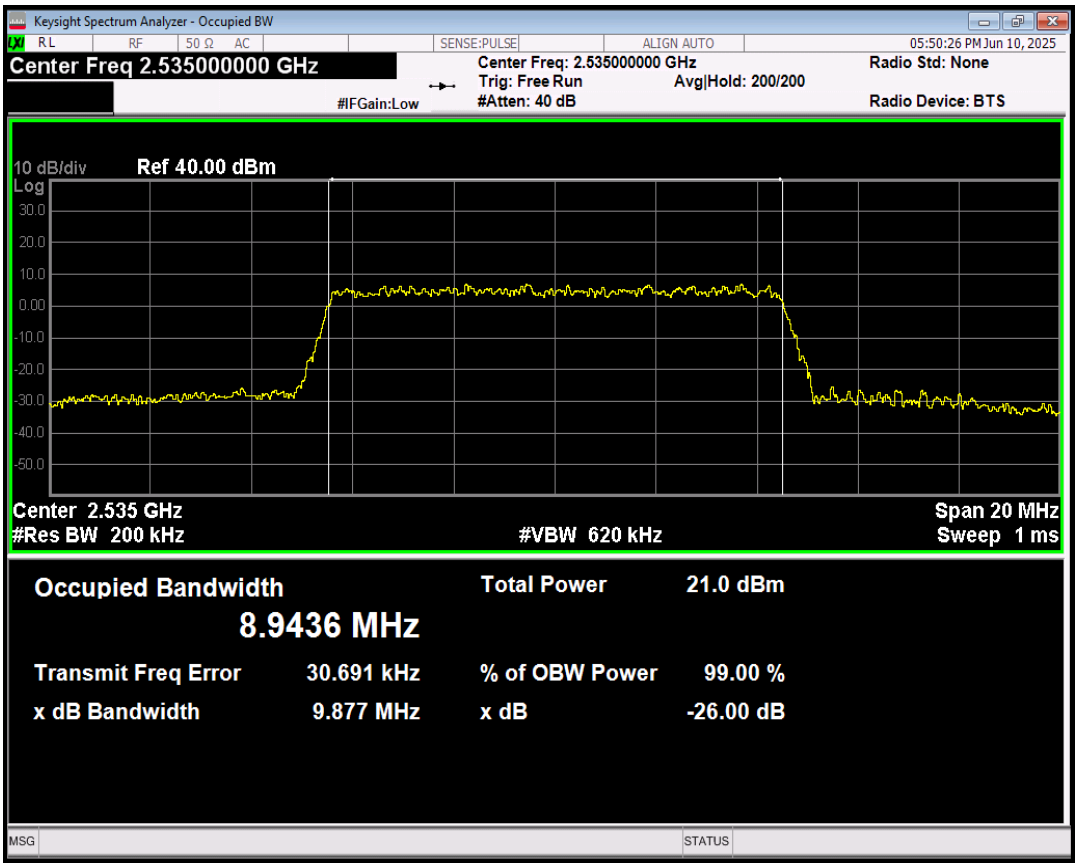
Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



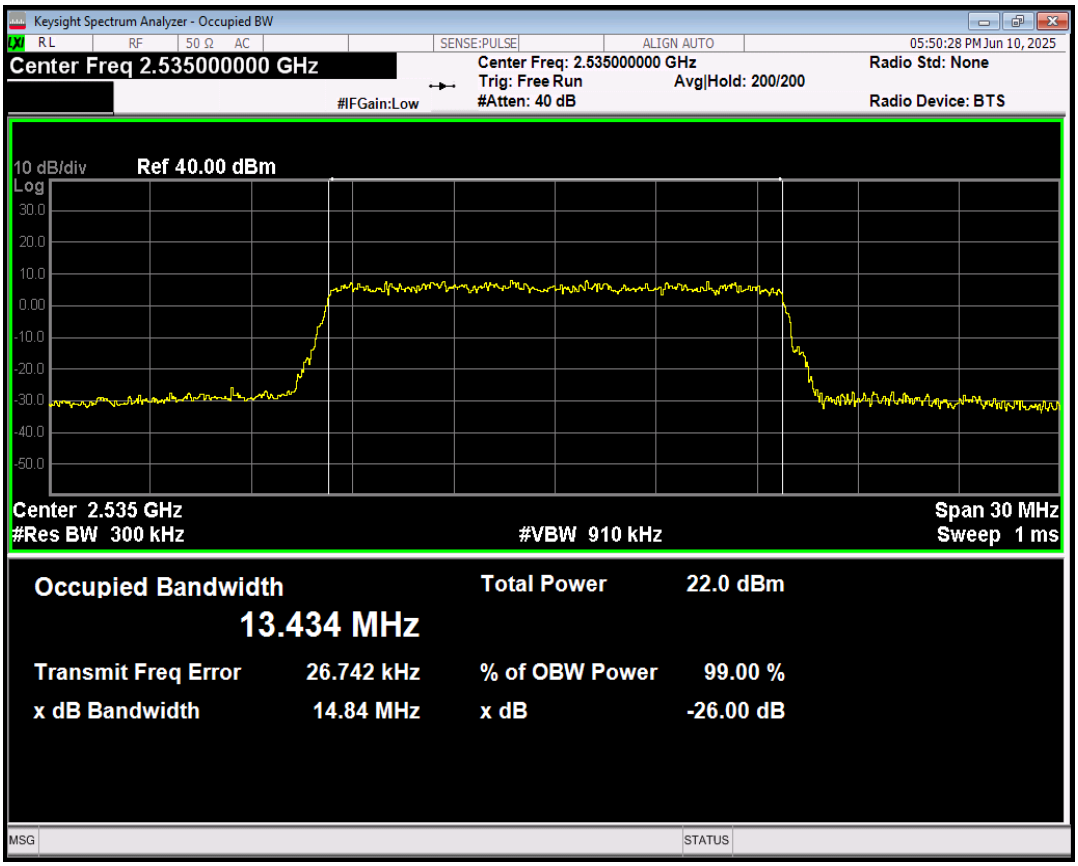
Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



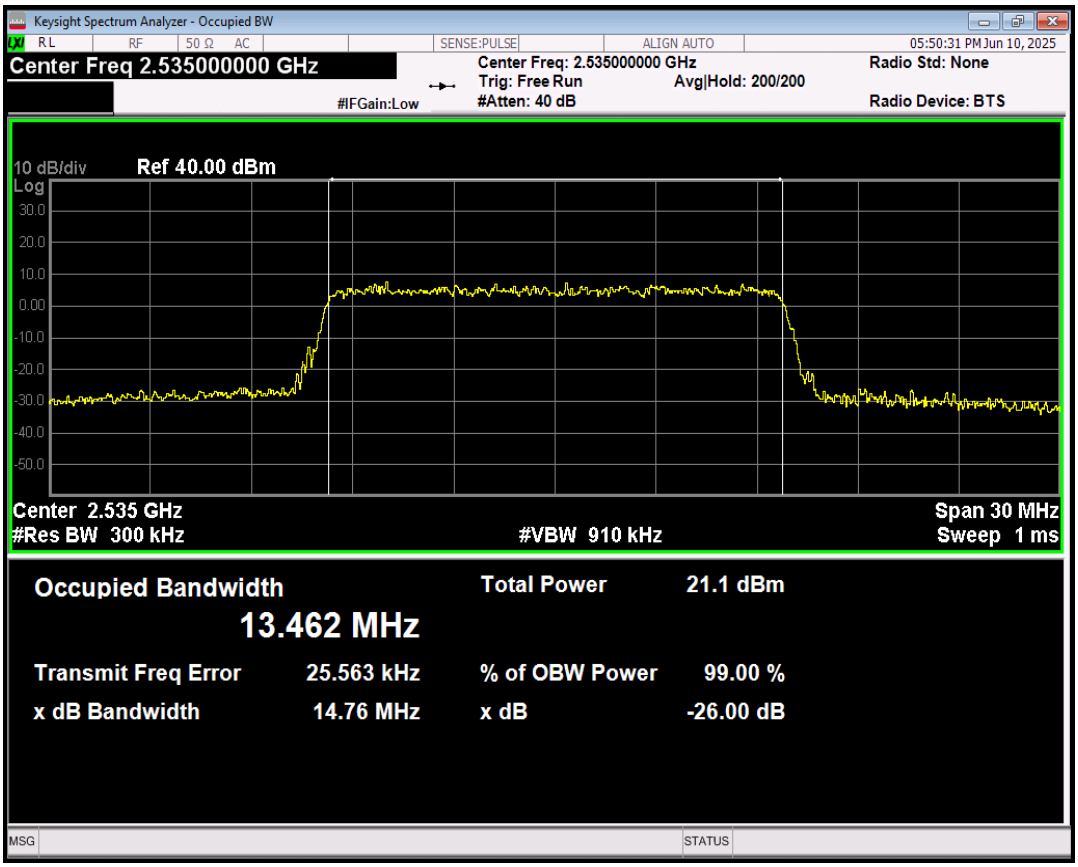
Band7 16QAM BW=10MHz Channel=21100 RB Size=50 Position=#0



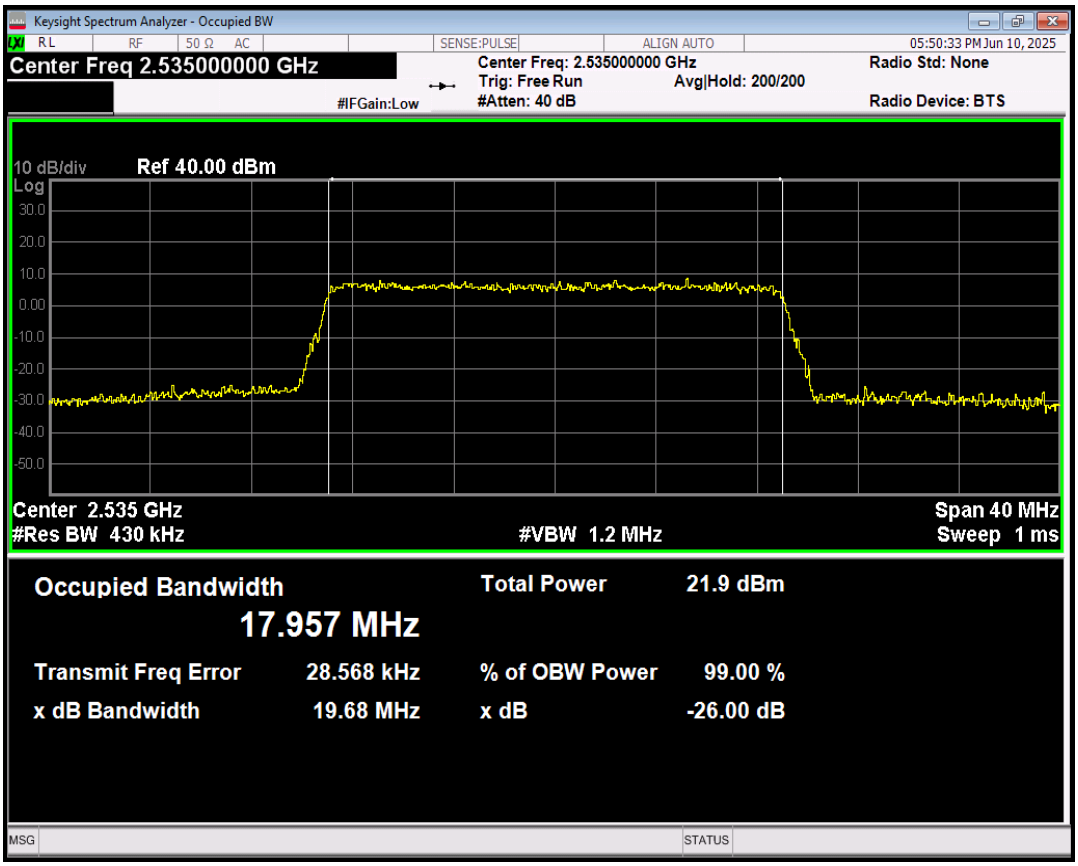
Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



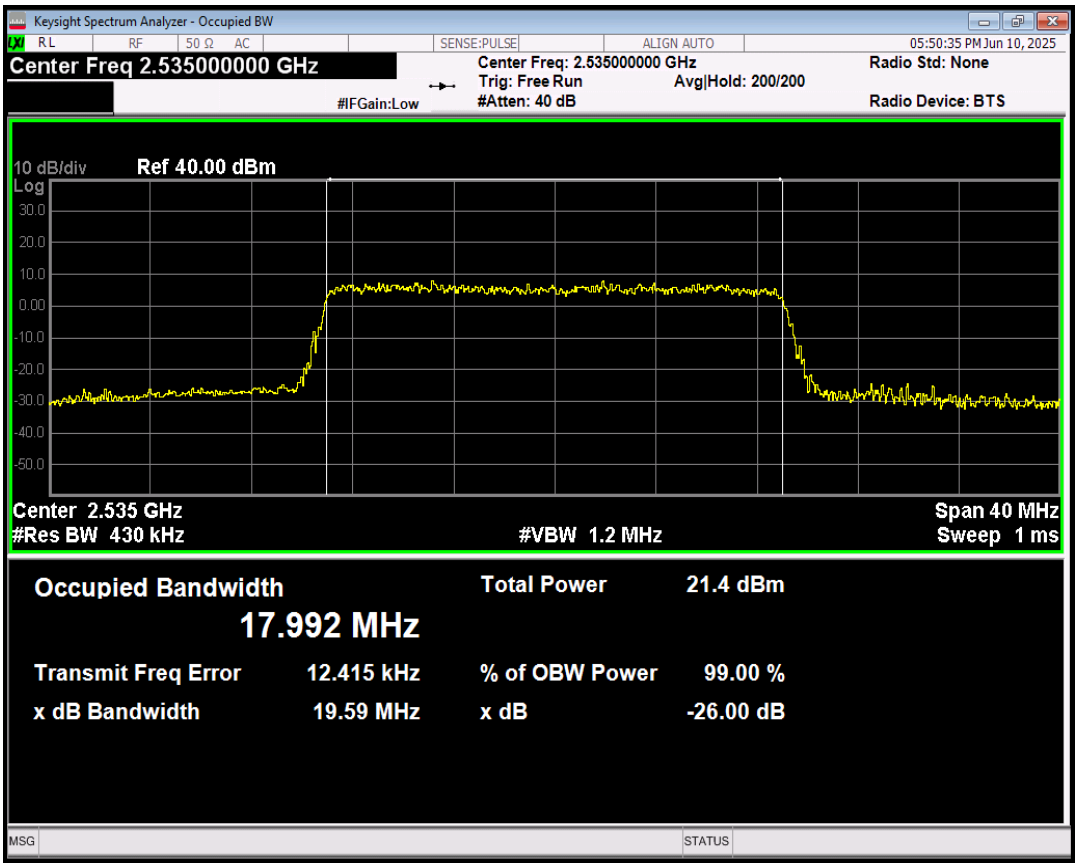
Band7 16QAM BW=15MHz Channel=21100 RB Size=75 Position=#0



Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



Band7 16QAM BW=20MHz Channel=21100 RB Size=100 Position=#0



05 Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	1.4	23017	1	#0	QPSK	699.00	-38.43	-13	PASS
Band12	1.4	23017	1	#Max	QPSK	700.21	-3.17	30	PASS
Band12	1.4	23017	6	#0	QPSK	698.89	-44.56	-13	PASS
Band12	1.4	23017	1	#0	16QAM	698.99	-36.61	-13	PASS
Band12	1.4	23017	1	#Max	16QAM	700.15	-4.37	30	PASS
Band12	1.4	23017	6	#0	16QAM	698.84	-45.29	-13	PASS
Band12	1.4	23173	1	#0	QPSK	714.86	-1.77	30	PASS
Band12	1.4	23173	1	#Max	QPSK	716.00	-37.28	-13	PASS
Band12	1.4	23173	6	#0	QPSK	716.15	-43.46	-13	PASS
Band12	1.4	23173	1	#0	16QAM	714.80	-2.67	30	PASS
Band12	1.4	23173	1	#Max	16QAM	716.01	-33.97	-13	PASS
Band12	1.4	23173	6	#0	16QAM	716.21	-44.83	-13	PASS
Band12	3	23025	1	#0	QPSK	699.00	-31.94	-13	PASS
Band12	3	23025	1	#Max	QPSK	701.74	-3.22	30	PASS
Band12	3	23025	15	#0	QPSK	698.99	-43.19	-13	PASS
Band12	3	23025	1	#0	16QAM	699.00	-33.56	-13	PASS
Band12	3	23025	1	#Max	16QAM	701.71	-4.13	30	PASS
Band12	3	23025	15	#0	16QAM	699.00	-44.73	-13	PASS
Band12	3	23165	1	#0	QPSK	713.23	-2.08	30	PASS
Band12	3	23165	1	#Max	QPSK	716.00	-30.96	-13	PASS

Band12	3	23165	15	#0	QPSK	716.00	-42.12	-13	PASS
Band12	3	23165	1	#0	16QAM	716.01	-45.88	-13	PASS
Band12	3	23165	1	#Max	16QAM	716.00	-31.56	-13	PASS
Band12	3	23165	15	#0	16QAM	716.00	-43.17	-13	PASS
Band12	5	23035	1	#0	QPSK	699.00	-40.25	-13	PASS
Band12	5	23035	1	#Max	QPSK	703.68	-2.86	30	PASS
Band12	5	23035	25	#0	QPSK	698.87	-48.25	-13	PASS
Band12	5	23035	1	#0	16QAM	698.99	-41.31	-13	PASS
Band12	5	23035	1	#Max	16QAM	703.63	-4.22	30	PASS
Band12	5	23035	25	#0	16QAM	698.74	-48.73	-13	PASS
Band12	5	23155	1	#0	QPSK	711.29	-2.00	30	PASS
Band12	5	23155	1	#Max	QPSK	716.01	-39.39	-13	PASS
Band12	5	23155	25	#0	QPSK	716.26	-50.12	-13	PASS
Band12	5	23155	1	#0	16QAM	711.34	-3.15	30	PASS
Band12	5	23155	1	#Max	16QAM	716.00	-38.88	-13	PASS
Band12	5	23155	25	#0	16QAM	716.11	-49.85	-13	PASS
Band12	10	23060	1	#0	QPSK	699.61	-1.03	30	PASS
Band12	10	23060	1	#Max	QPSK	708.44	-0.97	30	PASS
Band12	10	23060	50	#0	QPSK	698.66	-50.79	-13	PASS
Band12	10	23060	1	#0	16QAM	699.56	-1.65	30	PASS
Band12	10	23060	1	#Max	16QAM	708.45	-2.00	30	PASS
Band12	10	23060	50	#0	16QAM	698.37	-50.90	-13	PASS
Band12	10	23130	1	#0	QPSK	706.59	-0.98	30	PASS
Band12	10	23130	1	#Max	QPSK	715.40	-0.03	30	PASS
Band12	10	23130	50	#0	QPSK	716.12	-51.90	-13	PASS
Band12	10	23130	1	#0	16QAM	706.55	-2.09	30	PASS
Band12	10	23130	1	#Max	16QAM	715.48	-1.34	30	PASS
Band12	10	23130	50	#0	16QAM	716.12	-51.73	-13	PASS
Band17	5	23755	1	#0	QPSK	704.00	-36.68	-13	PASS
Band17	5	23755	1	#Max	QPSK	708.67	2.87	30	PASS
Band17	5	23755	25	#0	QPSK	702.97	-38.50	-13	PASS
Band17	5	23755	1	#0	16QAM	704.00	-37.71	-13	PASS
Band17	5	23755	1	#Max	16QAM	708.61	0.55	30	PASS
Band17	5	23755	25	#0	16QAM	702.98	-38.70	-13	PASS
Band17	5	23825	1	#0	QPSK	711.36	2.55	30	PASS
Band17	5	23825	1	#Max	QPSK	716.01	-36.11	-13	PASS
Band17	5	23825	25	#0	QPSK	717.16	-40.55	-13	PASS
Band17	5	23825	1	#0	16QAM	711.34	1.15	30	PASS
Band17	5	23825	1	#Max	16QAM	716.01	-37.86	-13	PASS
Band17	5	23825	25	#0	16QAM	717.01	-40.06	-13	PASS
Band17	10	23780	1	#0	QPSK	704.57	3.98	30	PASS
Band17	10	23780	1	#Max	QPSK	713.39	4.73	30	PASS
Band17	10	23780	50	#0	QPSK	702.78	-42.91	-13	PASS
Band17	10	23780	1	#0	16QAM	704.57	2.36	30	PASS