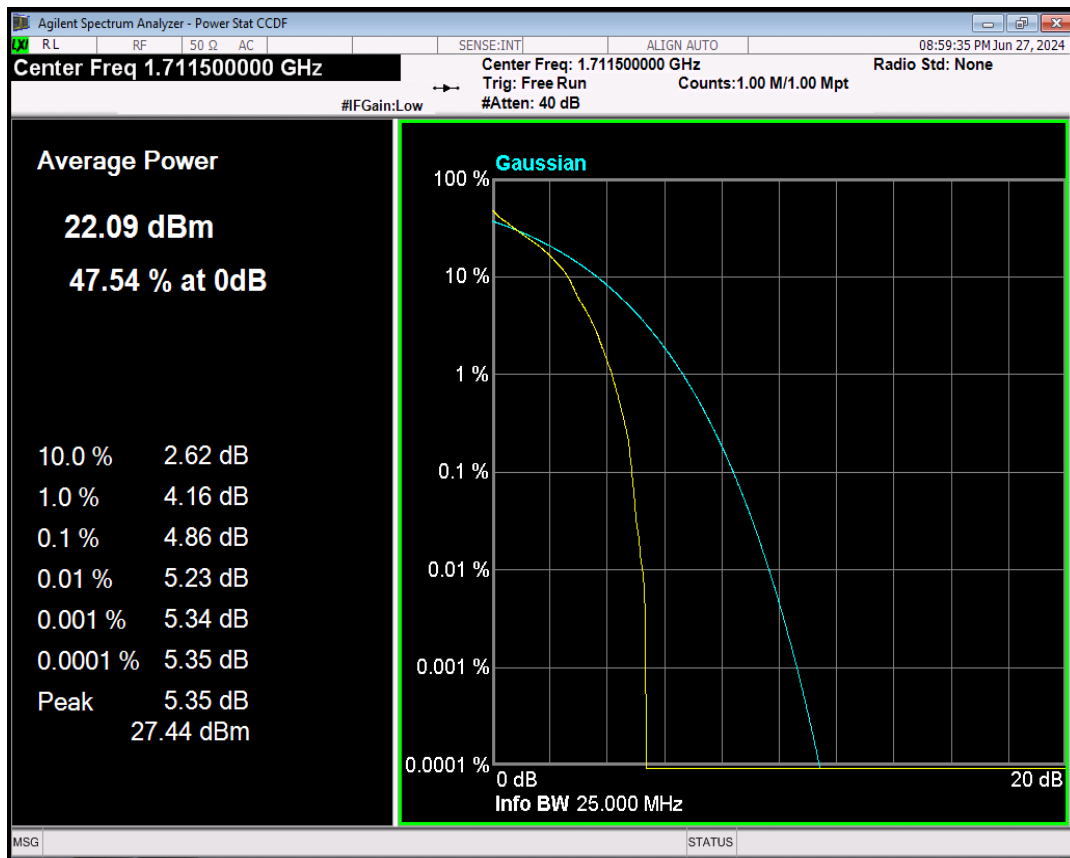
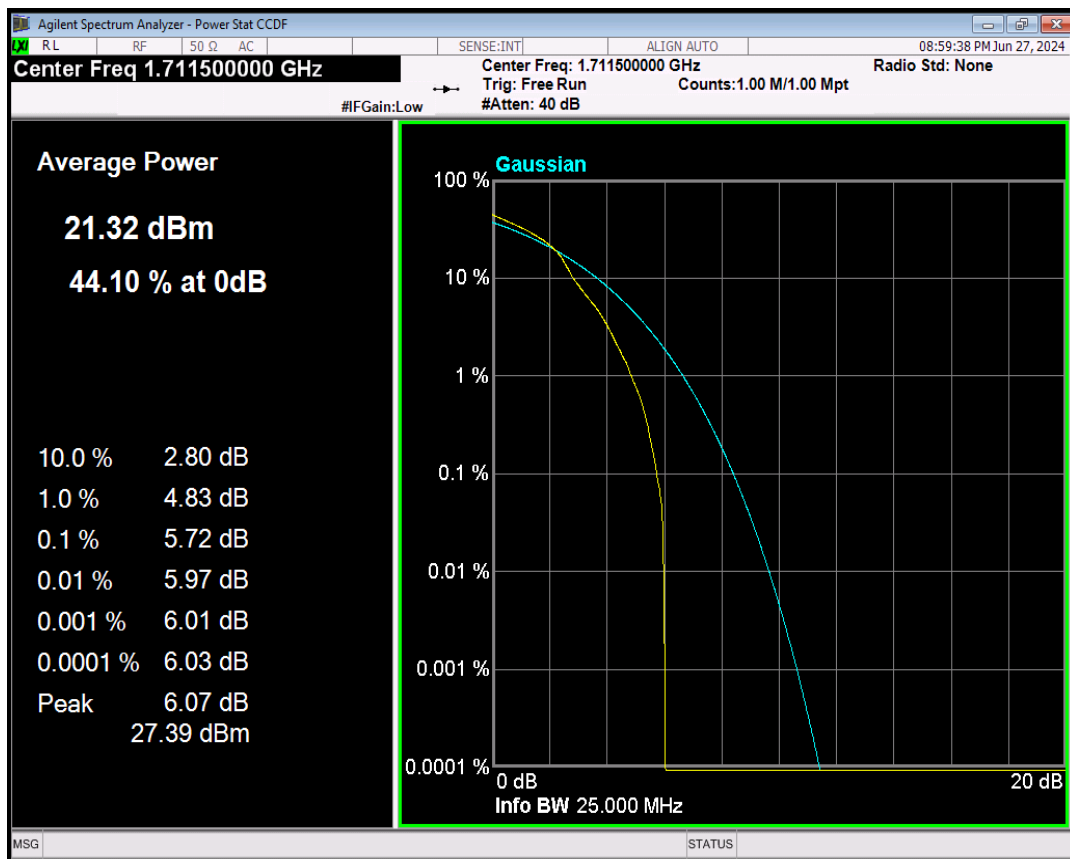




Band4 QPSK BW=3MHz Channel=19965 RB Size=1 Position=#0

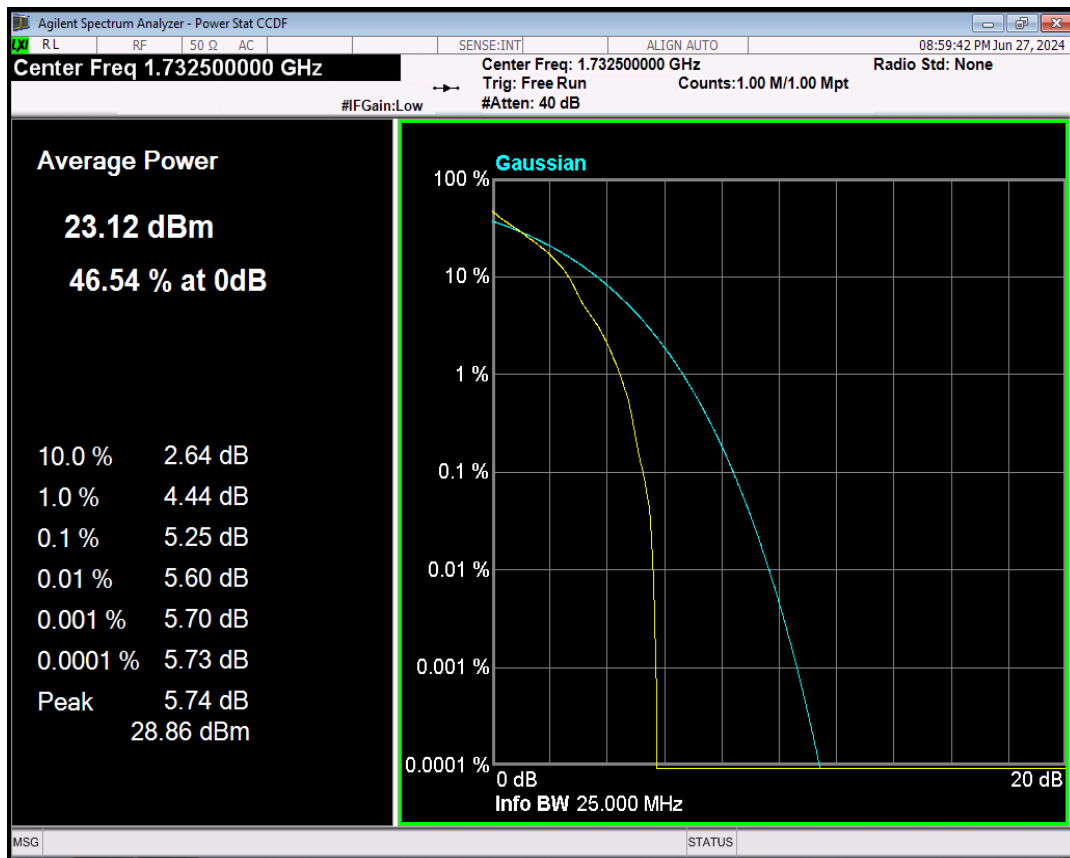


Band4 16QAM BW=3MHz Channel=19965 RB Size=1 Position=#0

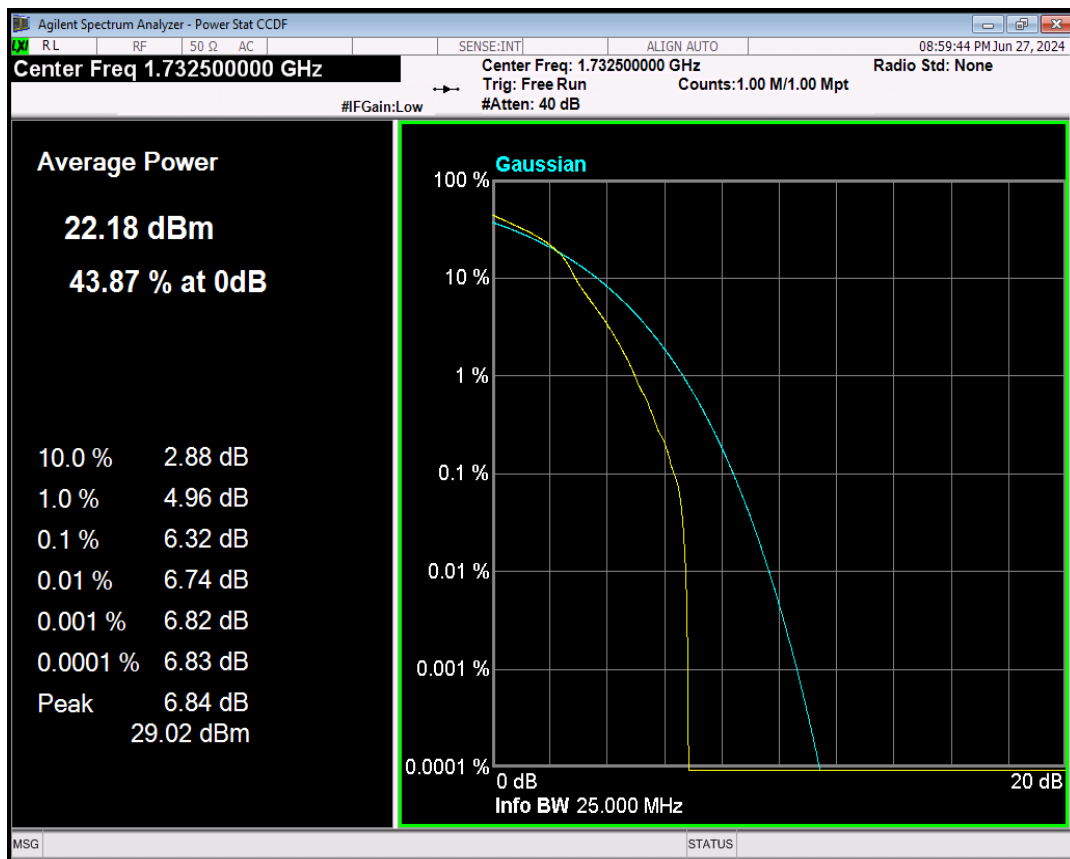




Band4 QPSK BW=3MHz Channel=20175 RB Size=1 Position=#0

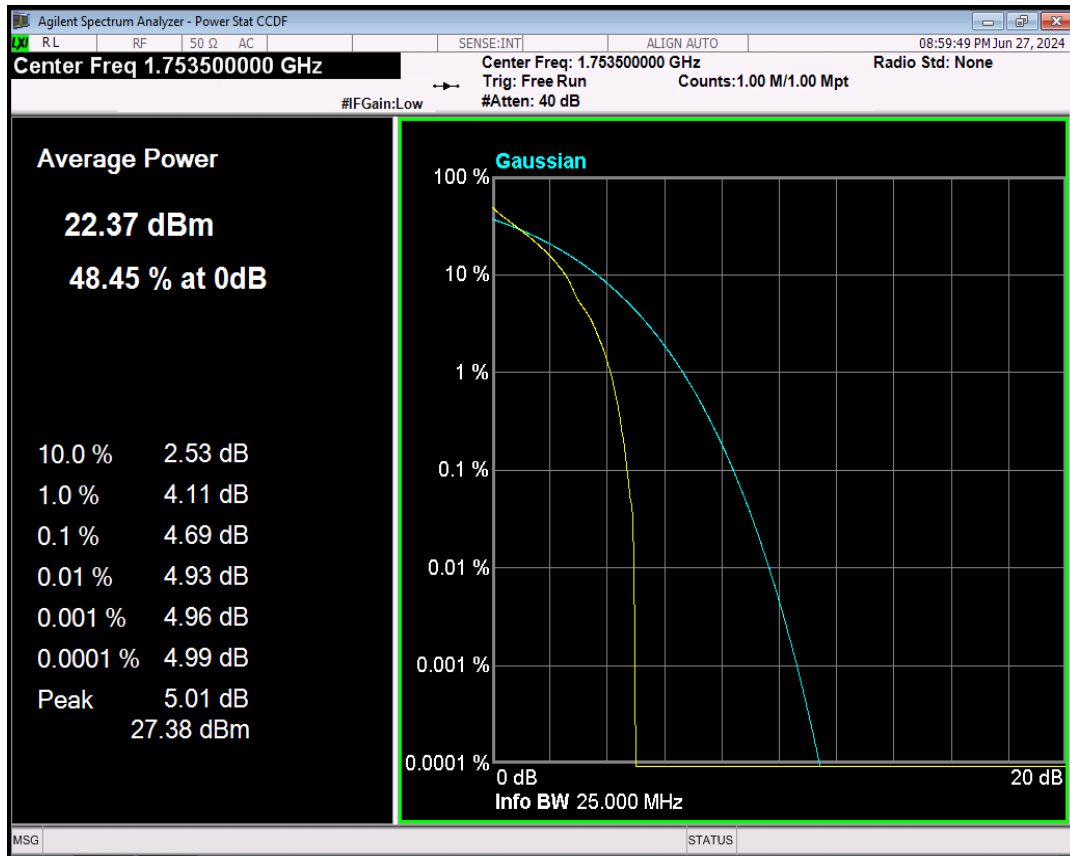


Band4 16QAM BW=3MHz Channel=20175 RB Size=1 Position=#0

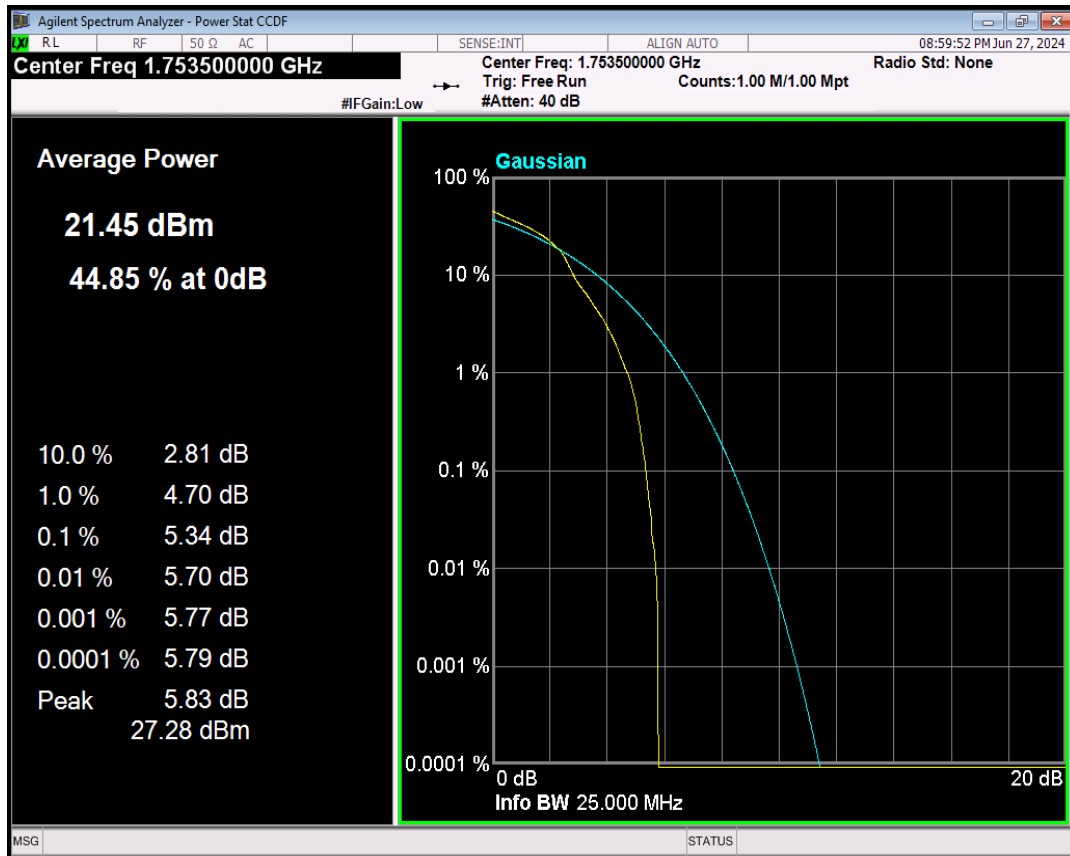




Band4 QPSK BW=3MHz Channel=20385 RB Size=1 Position=#0

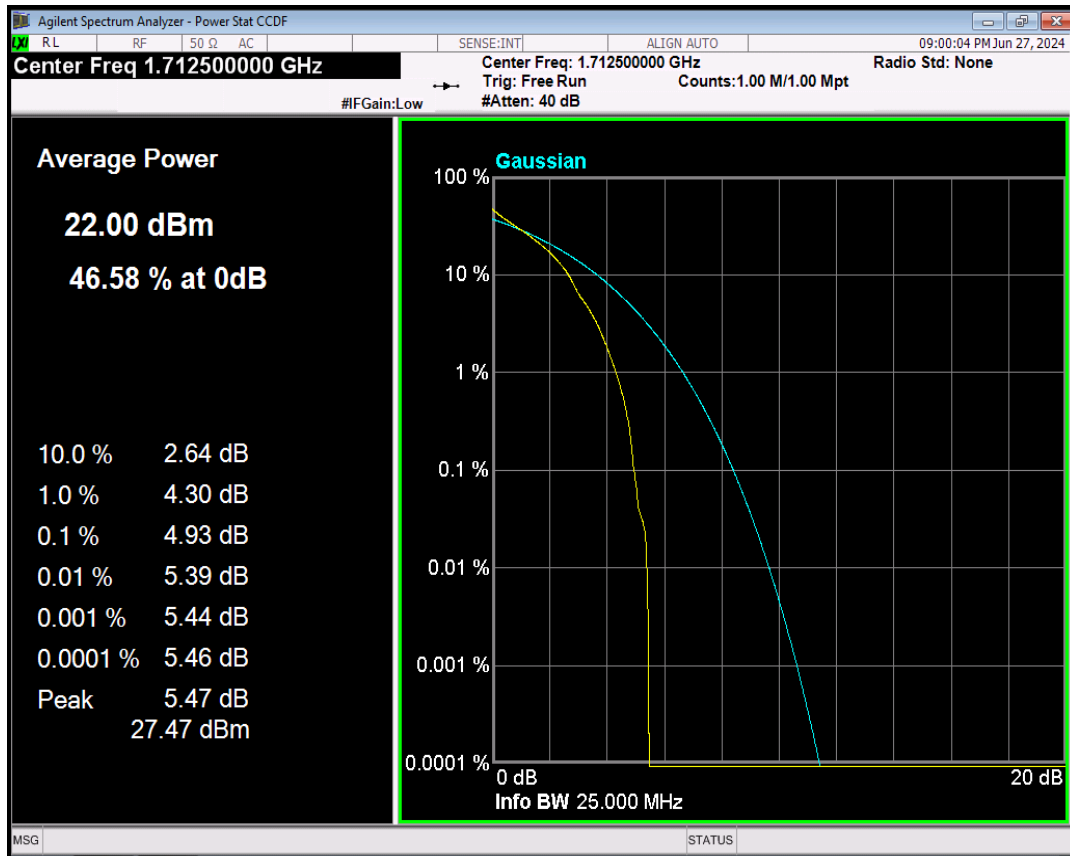


Band4 16QAM BW=3MHz Channel=20385 RB Size=1 Position=#0

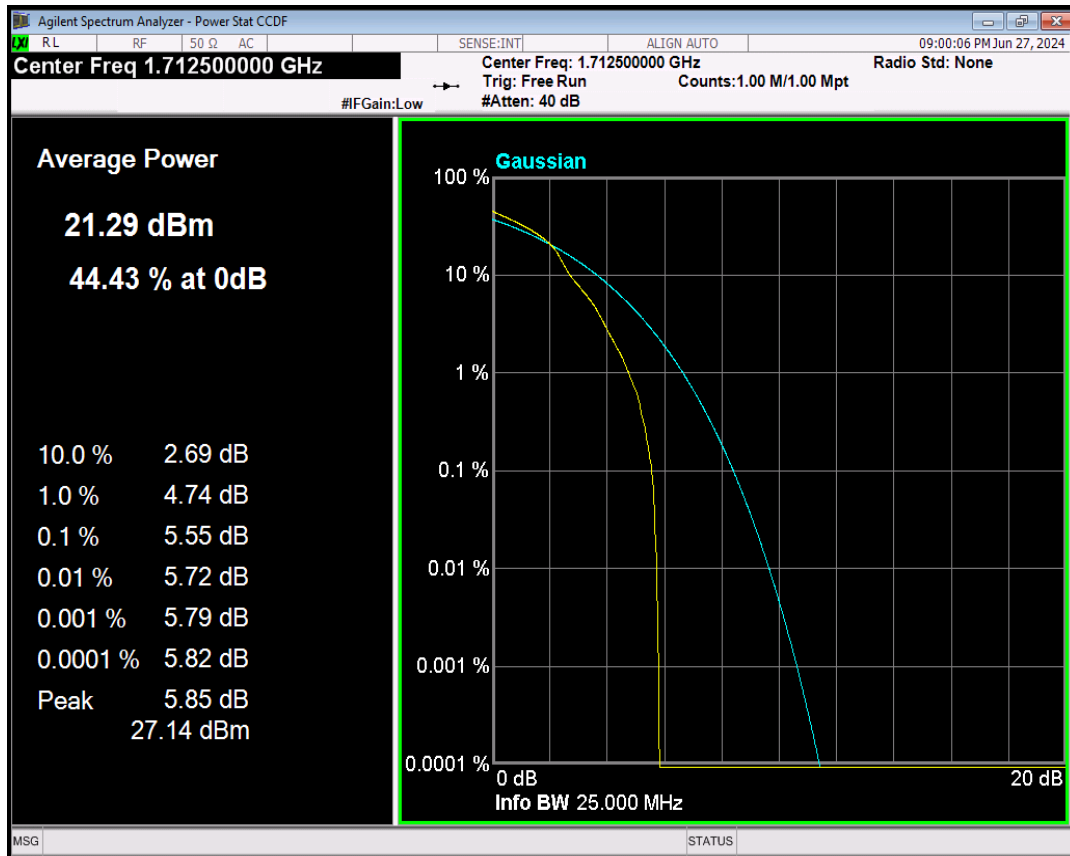




Band4 QPSK BW=5MHz Channel=19975 RB Size=1 Position=#0

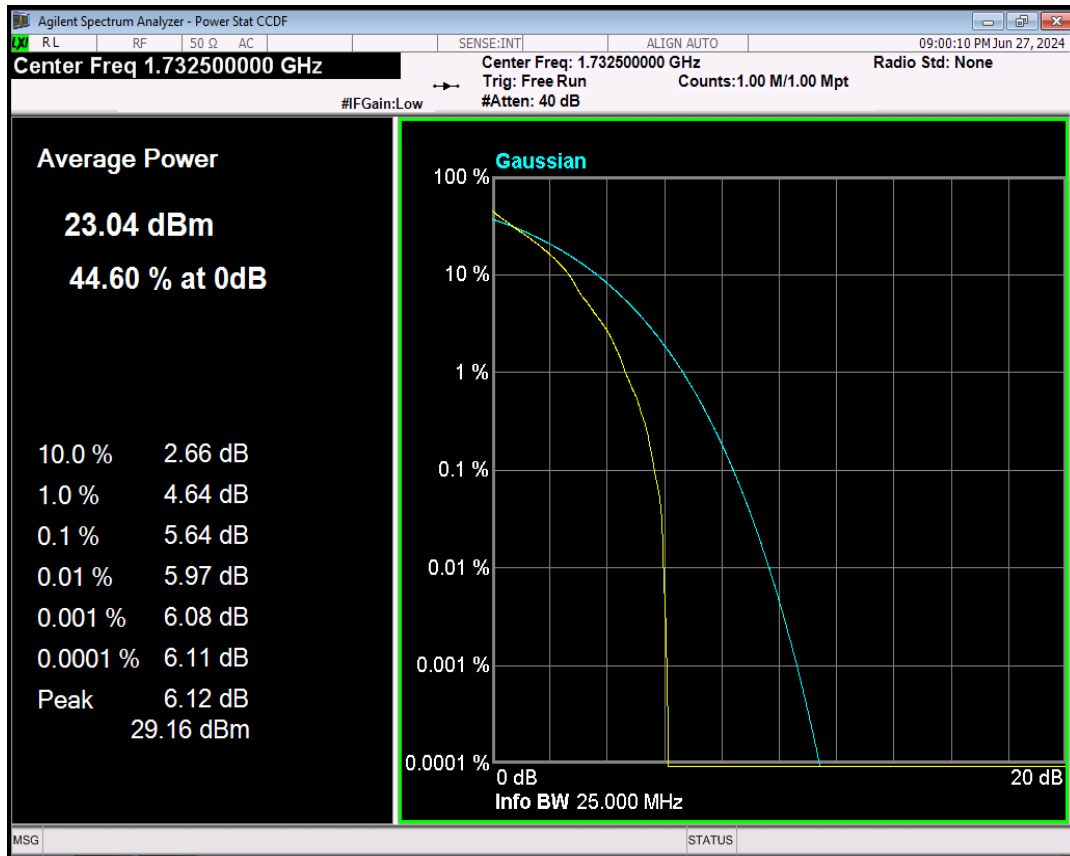


Band4 16QAM BW=5MHz Channel=19975 RB Size=1 Position=#0

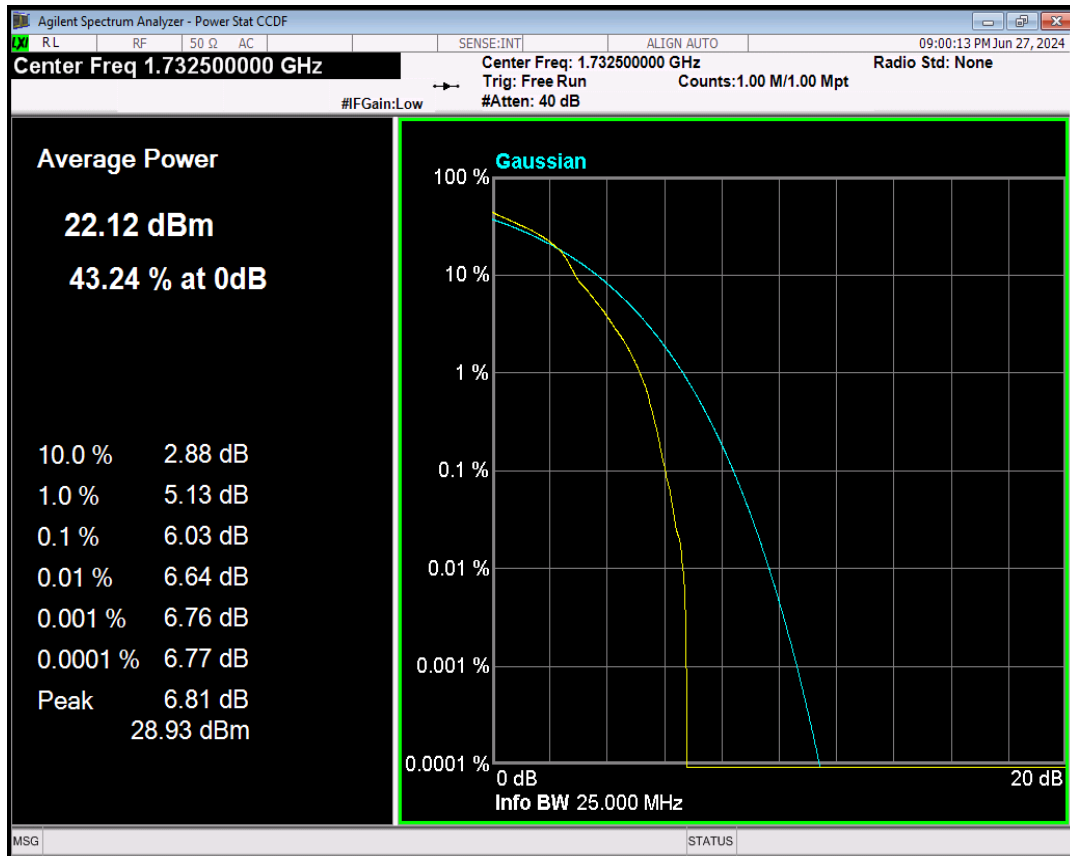




Band4 QPSK BW=5MHz Channel=20175 RB Size=1 Position=#0

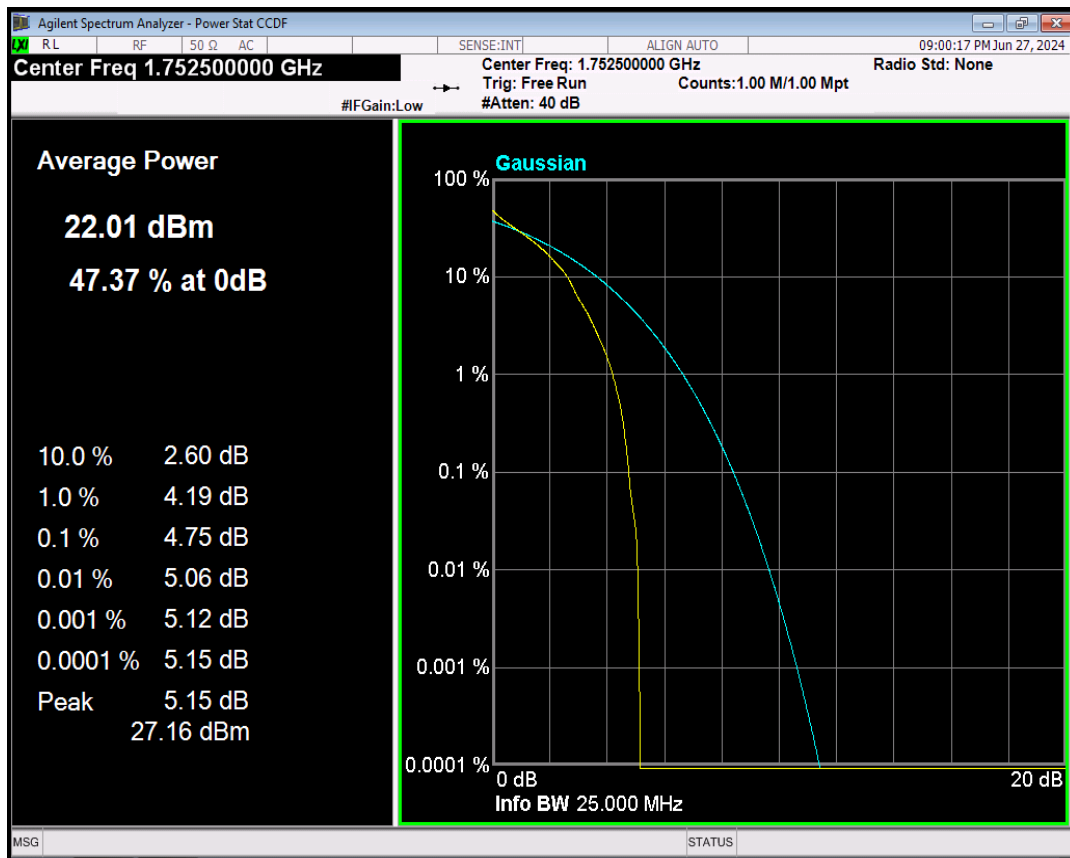


Band4 16QAM BW=5MHz Channel=20175 RB Size=1 Position=#0

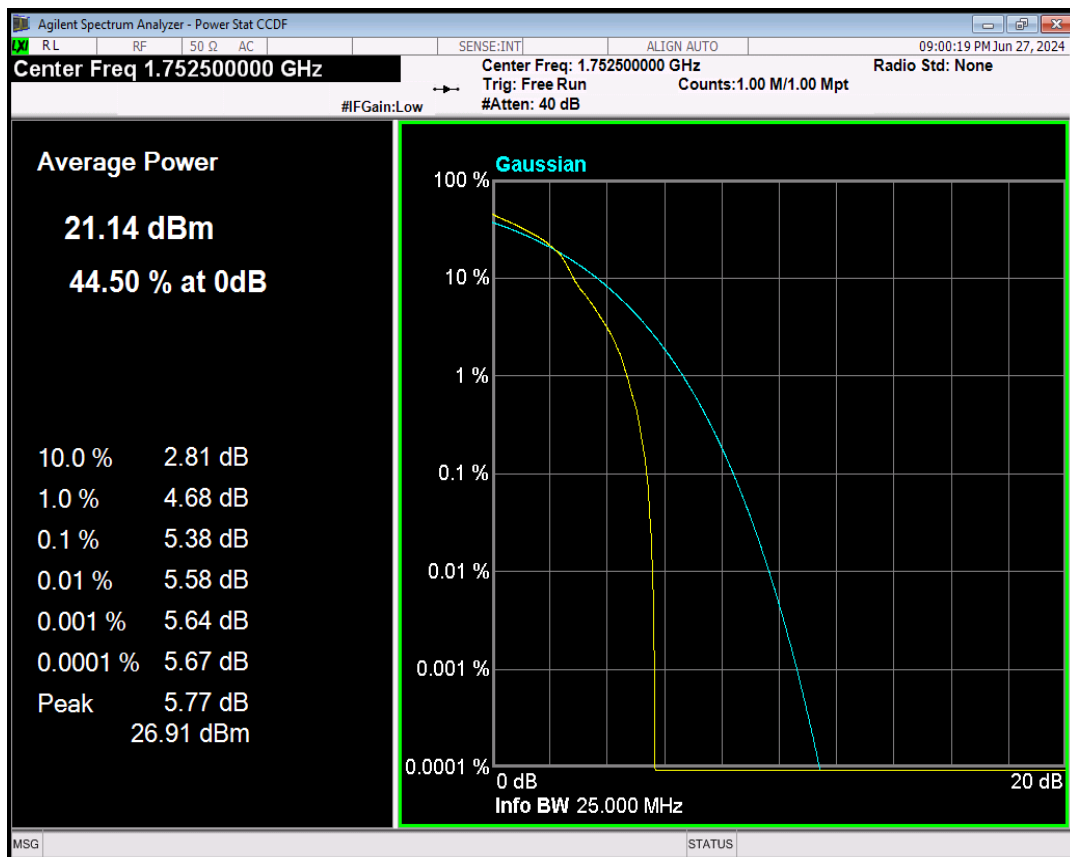




Band4 QPSK BW=5MHz Channel=20375 RB Size=1 Position=#0

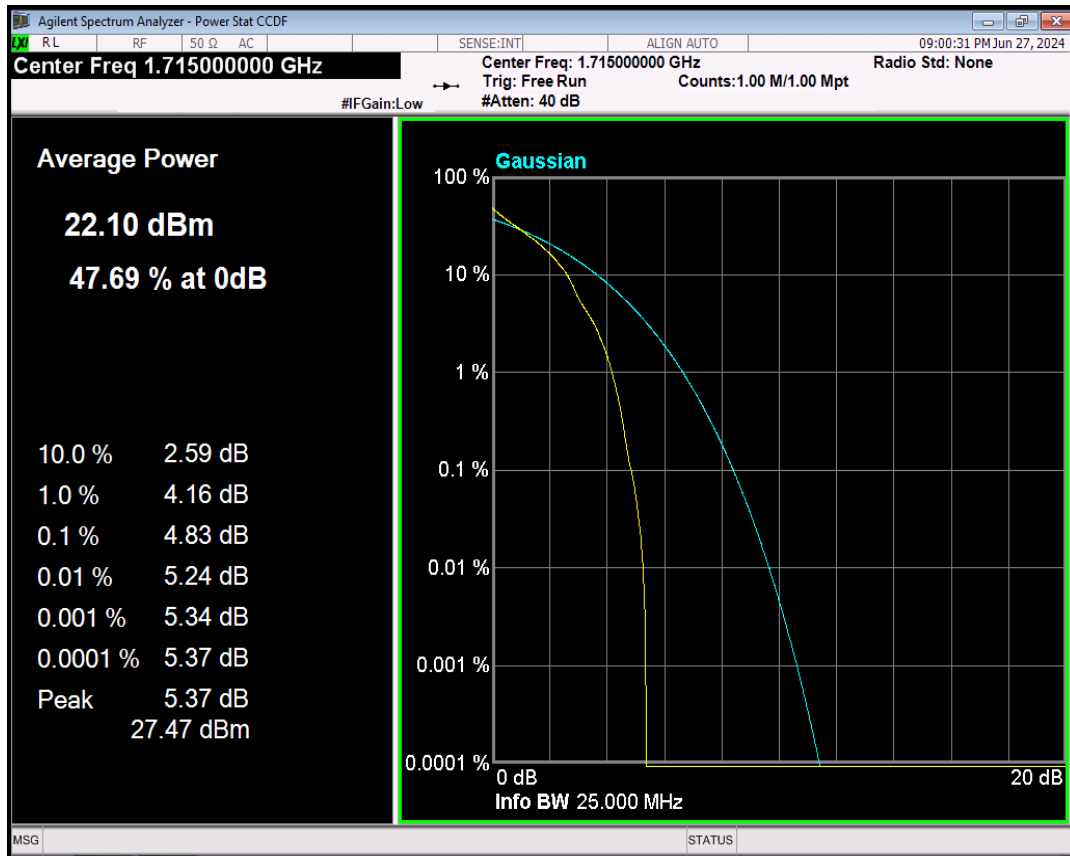


Band4 16QAM BW=5MHz Channel=20375 RB Size=1 Position=#0

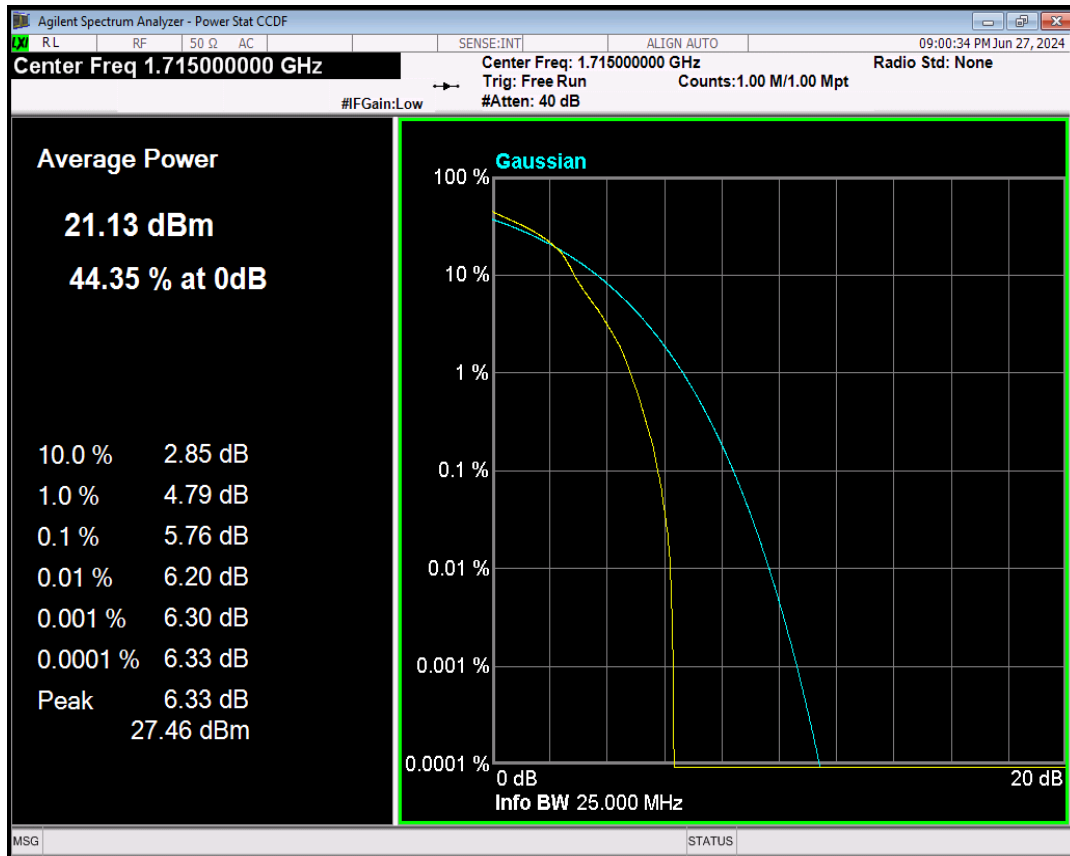




Band4 QPSK BW=10MHz Channel=20000 RB Size=1 Position=#0

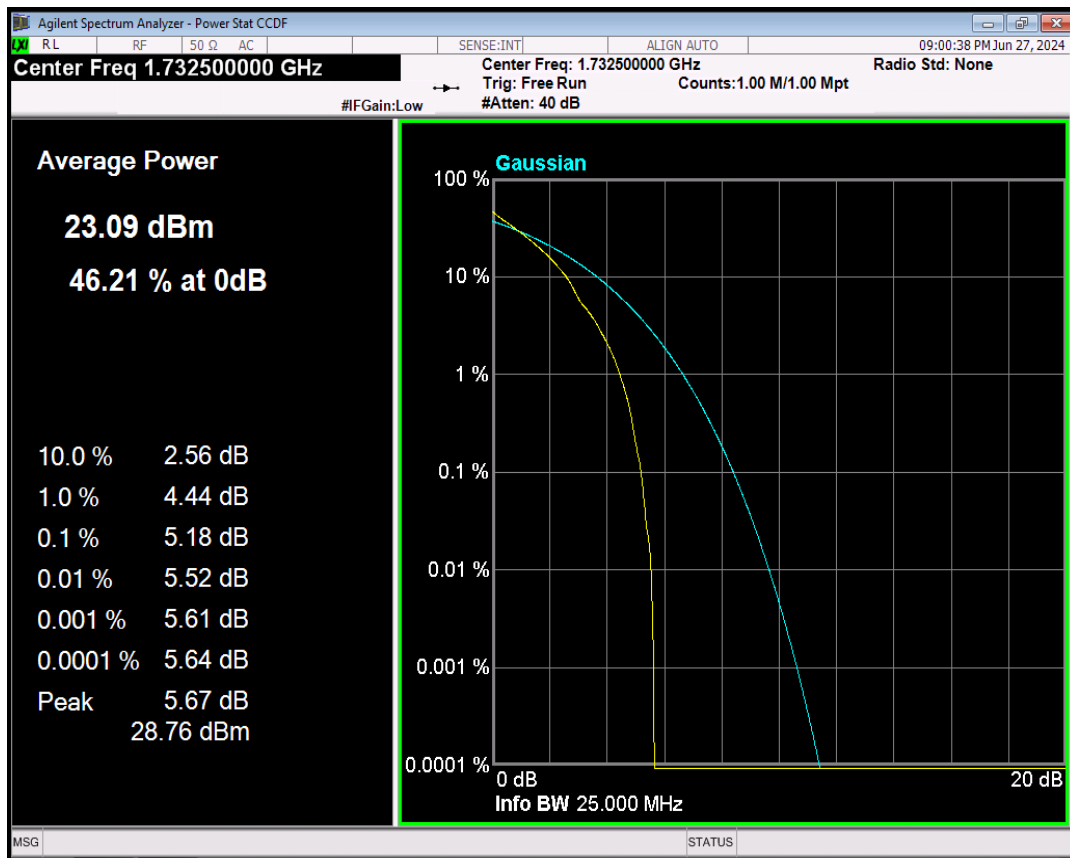


Band4 16QAM BW=10MHz Channel=20000 RB Size=1 Position=#0

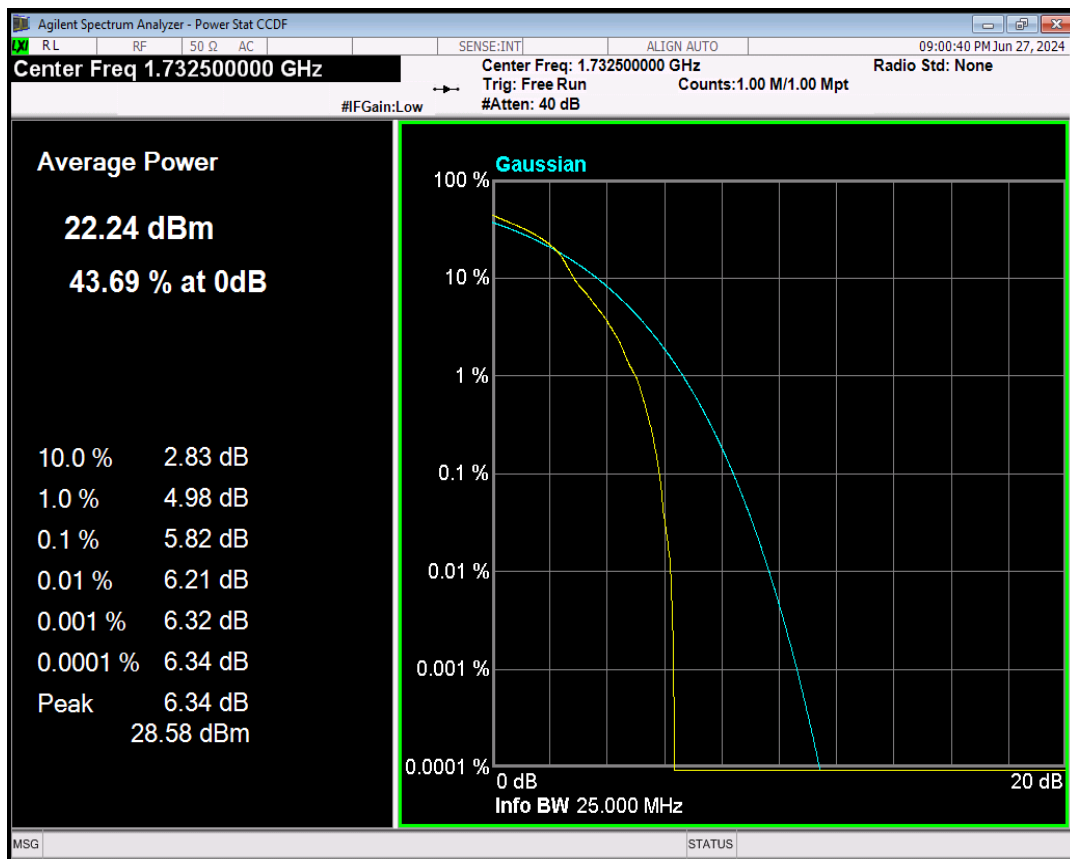




Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0

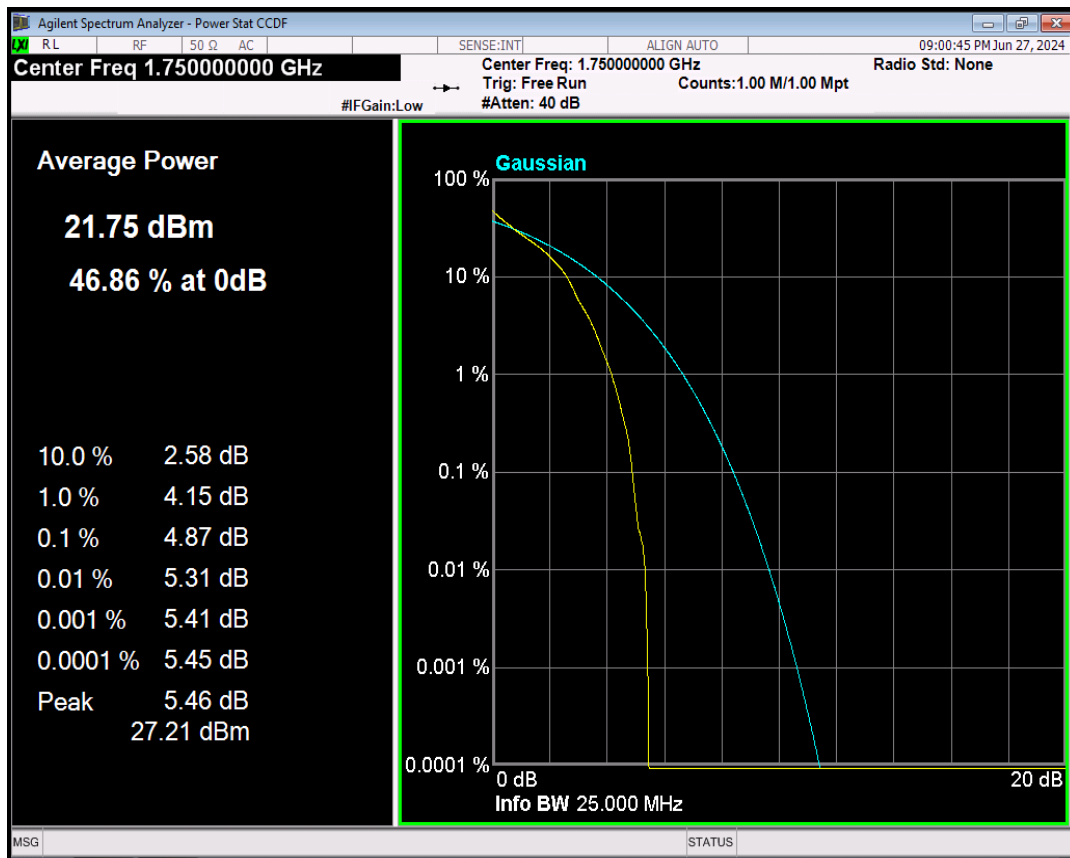


Band4 16QAM BW=10MHz Channel=20175 RB Size=1 Position=#0

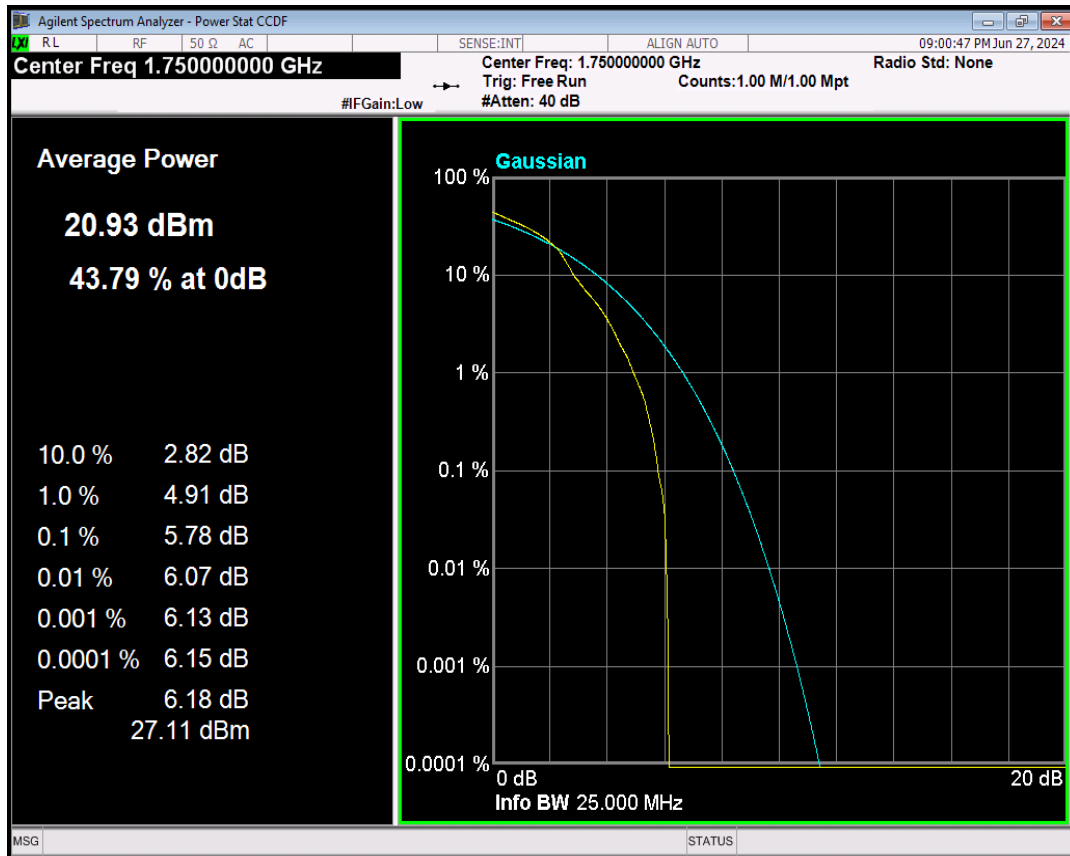




Band4 QPSK BW=10MHz Channel=20350 RB Size=1 Position=#0

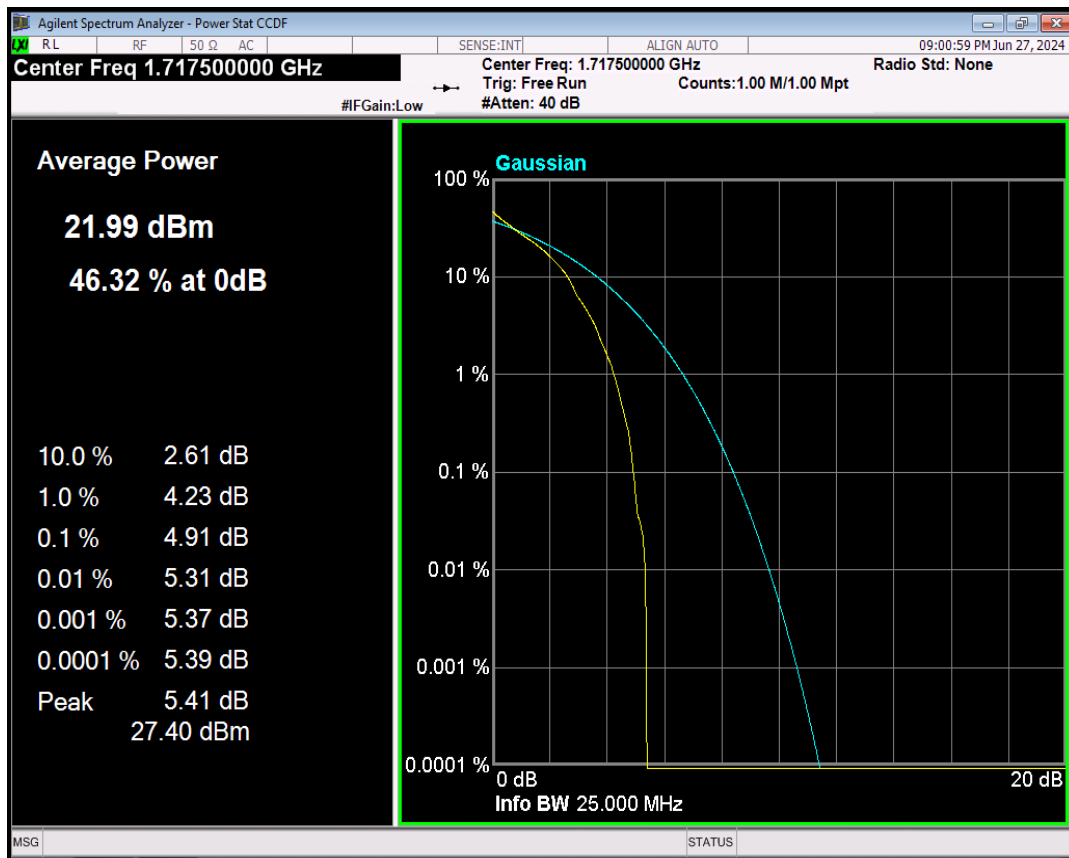


Band4 16QAM BW=10MHz Channel=20350 RB Size=1 Position=#0

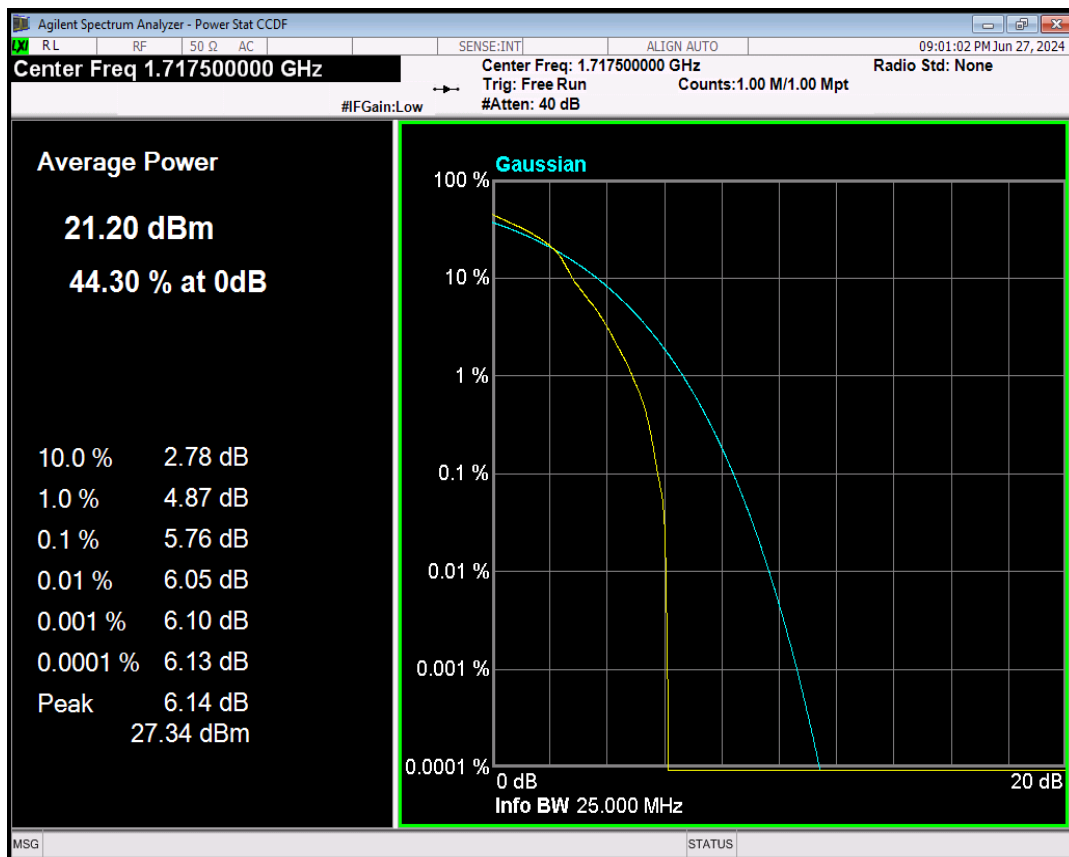




Band4 QPSK BW=15MHz Channel=20025 RB Size=1 Position=#0

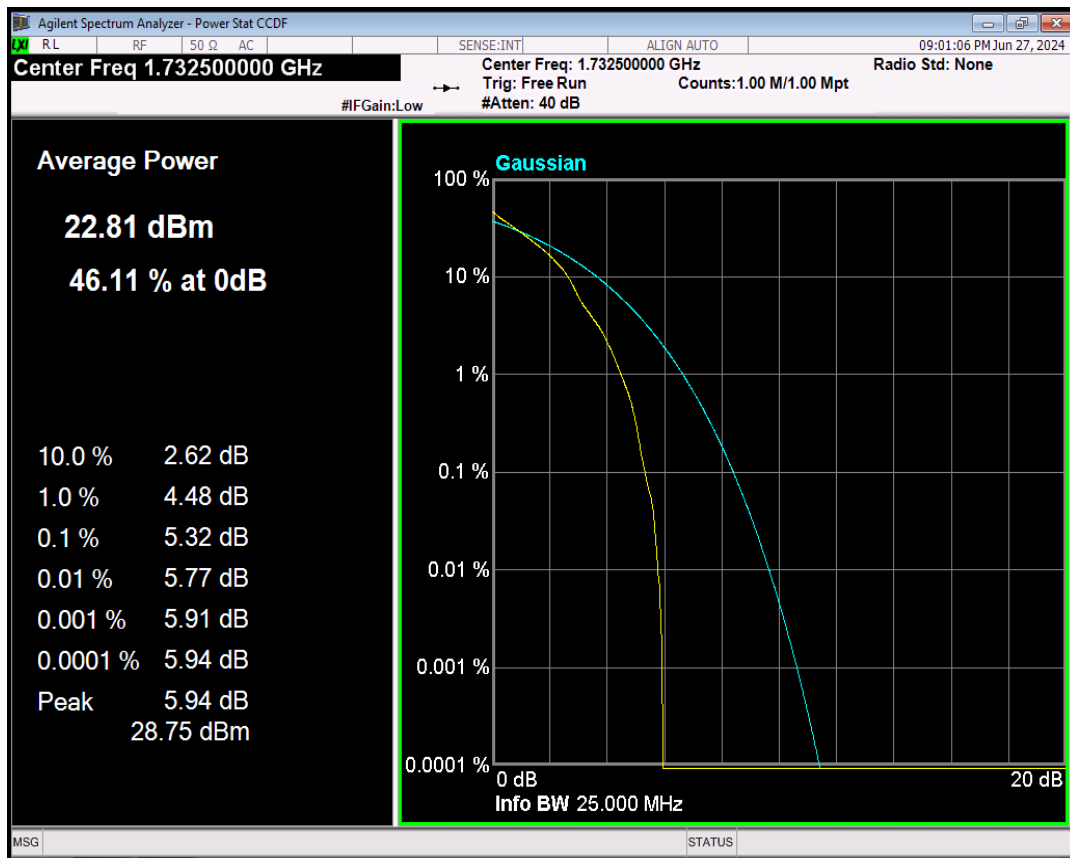


Band4 16QAM BW=15MHz Channel=20025 RB Size=1 Position=#0

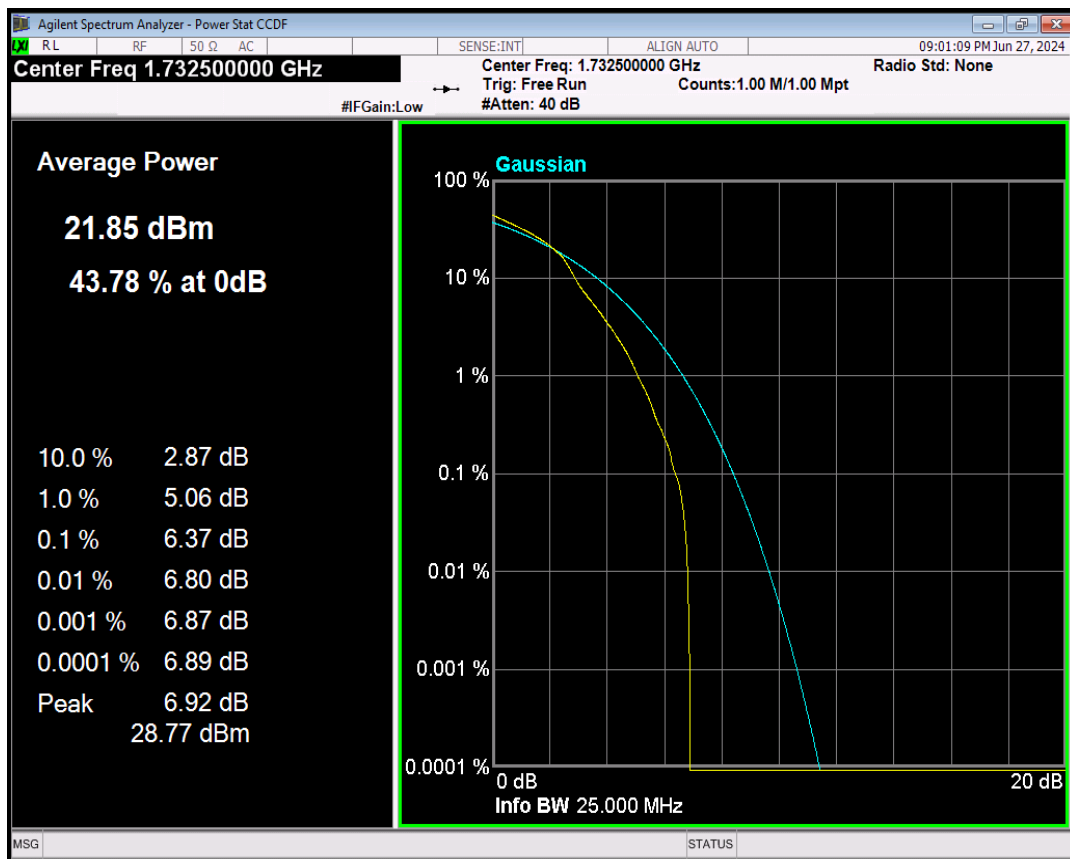




Band4 QPSK BW=15MHz Channel=20175 RB Size=1 Position=#0

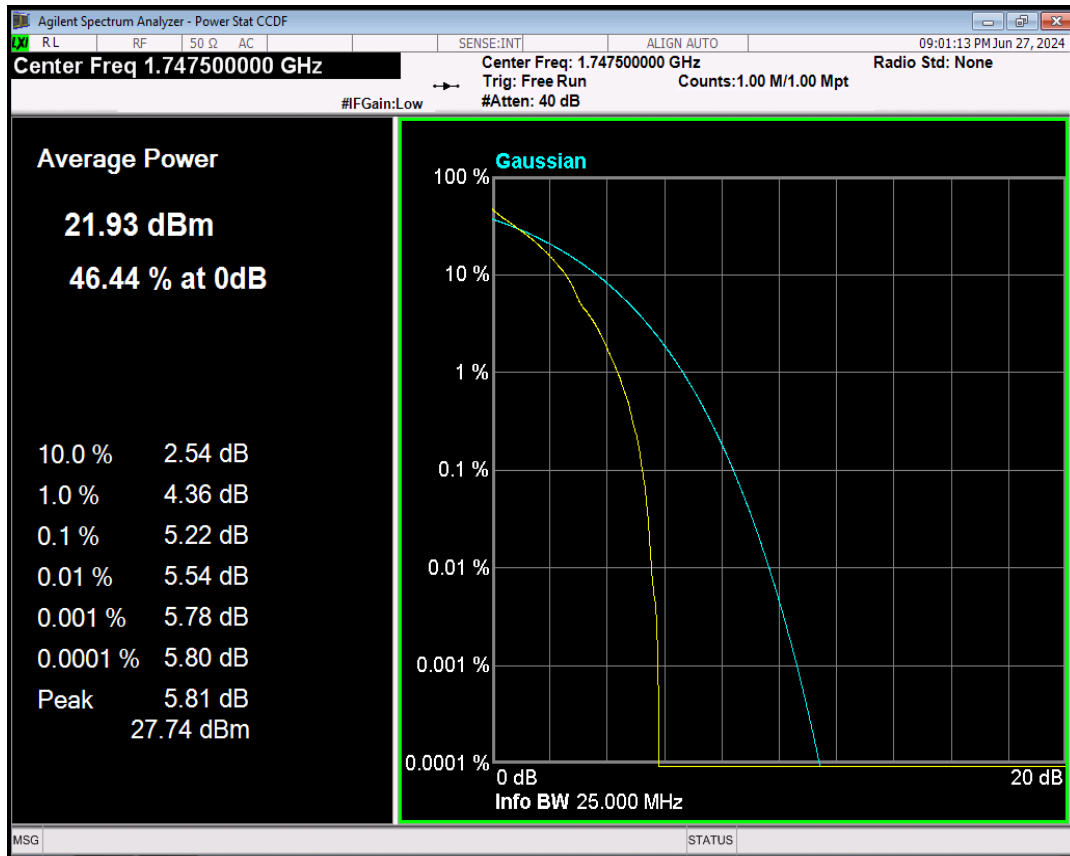


Band4 16QAM BW=15MHz Channel=20175 RB Size=1 Position=#0

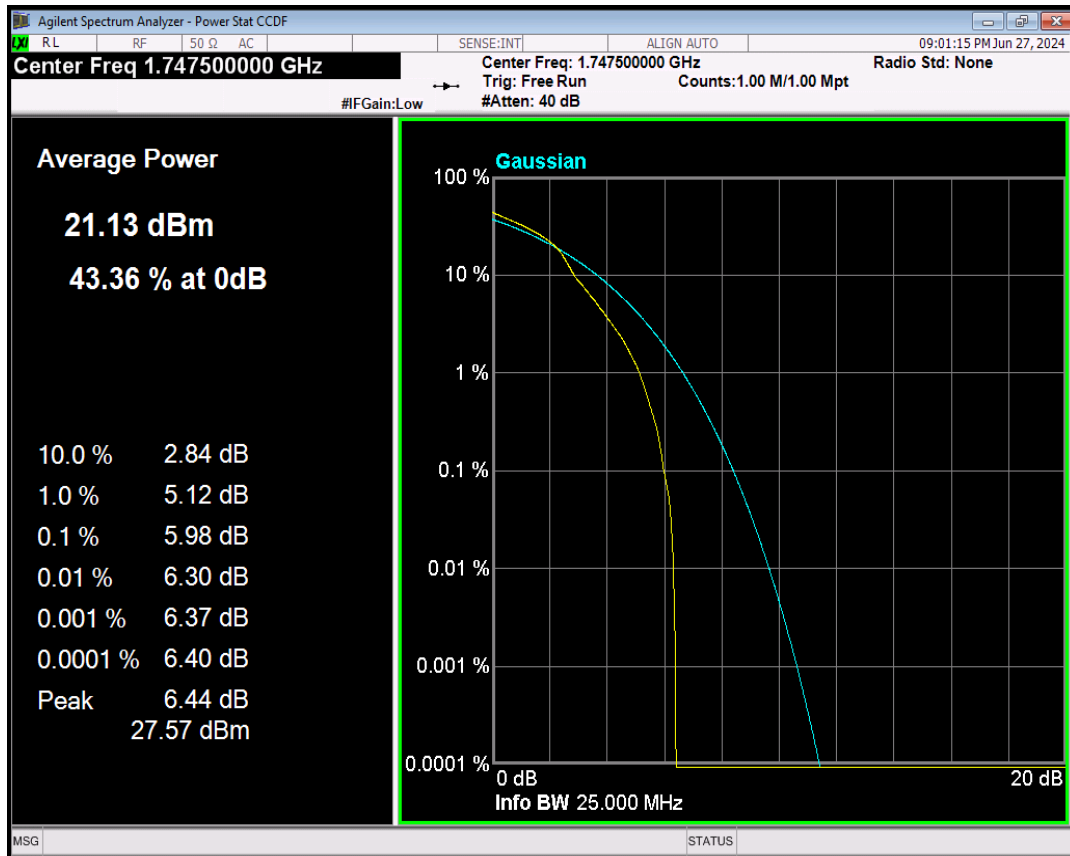




Band4 QPSK BW=15MHz Channel=20325 RB Size=1 Position=#0

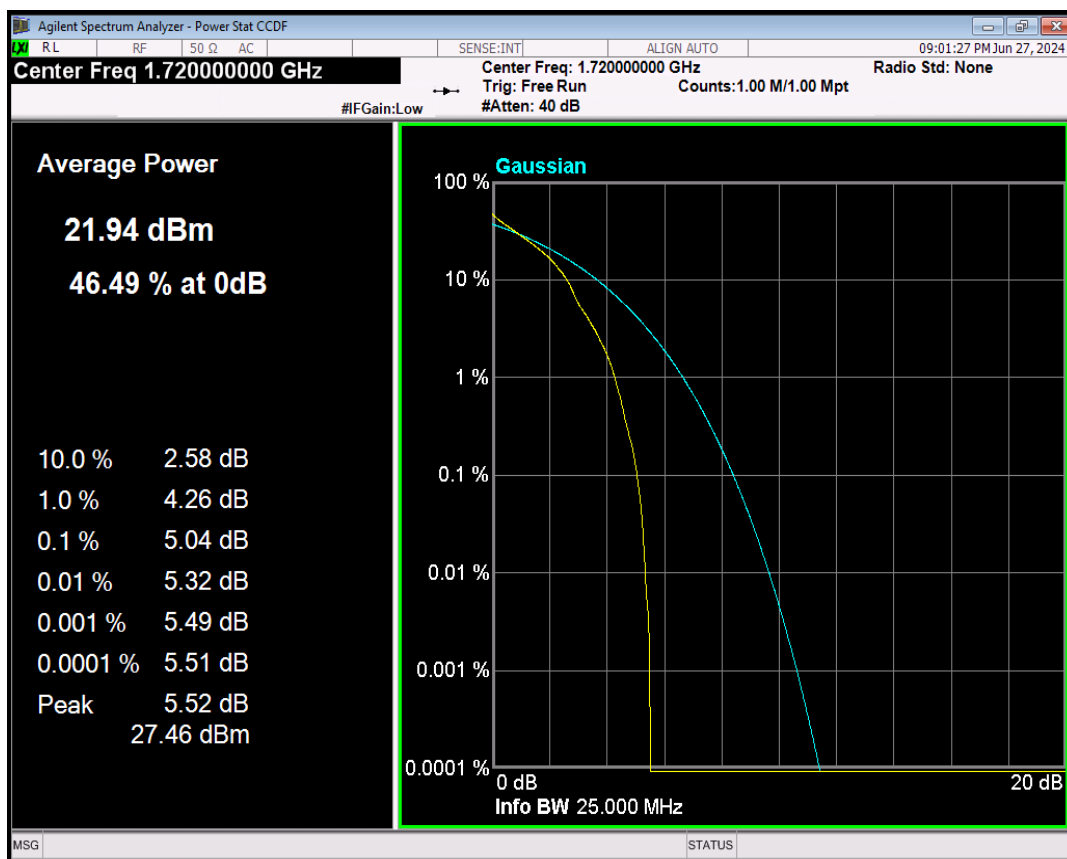


Band4 16QAM BW=15MHz Channel=20325 RB Size=1 Position=#0

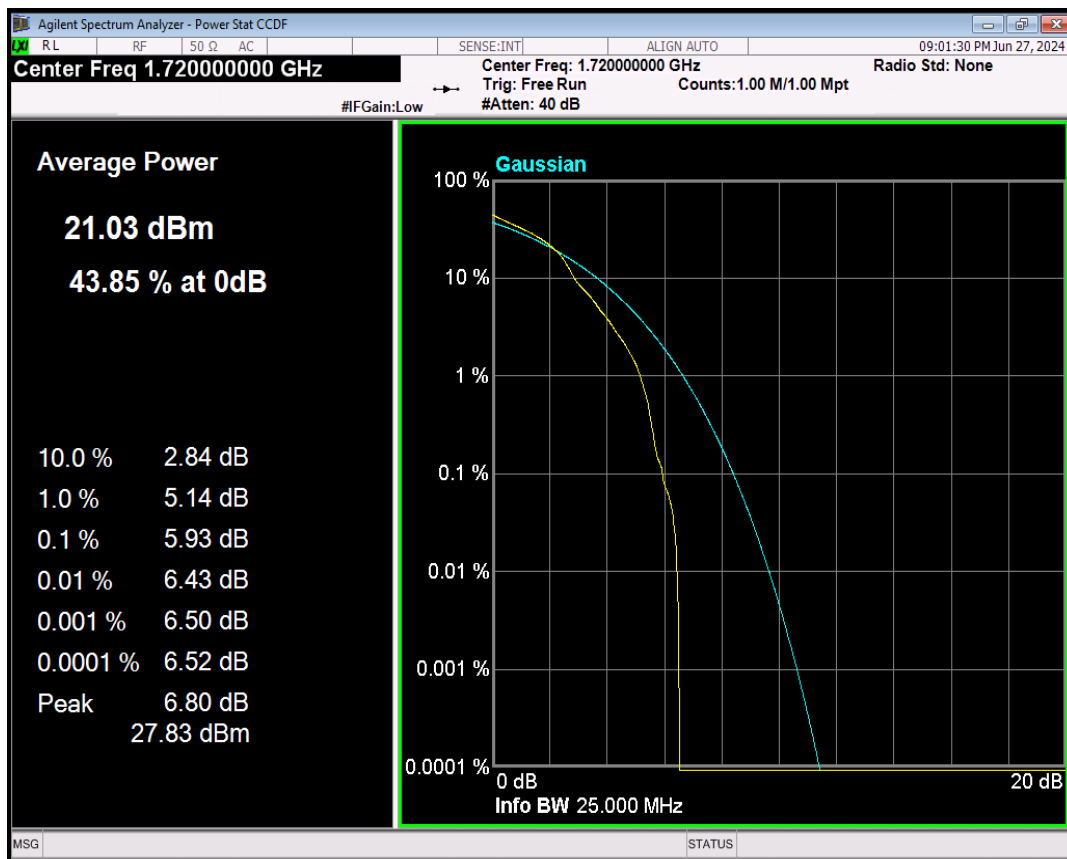




Band4 QPSK BW=20MHz Channel=20050 RB Size=1 Position=#0

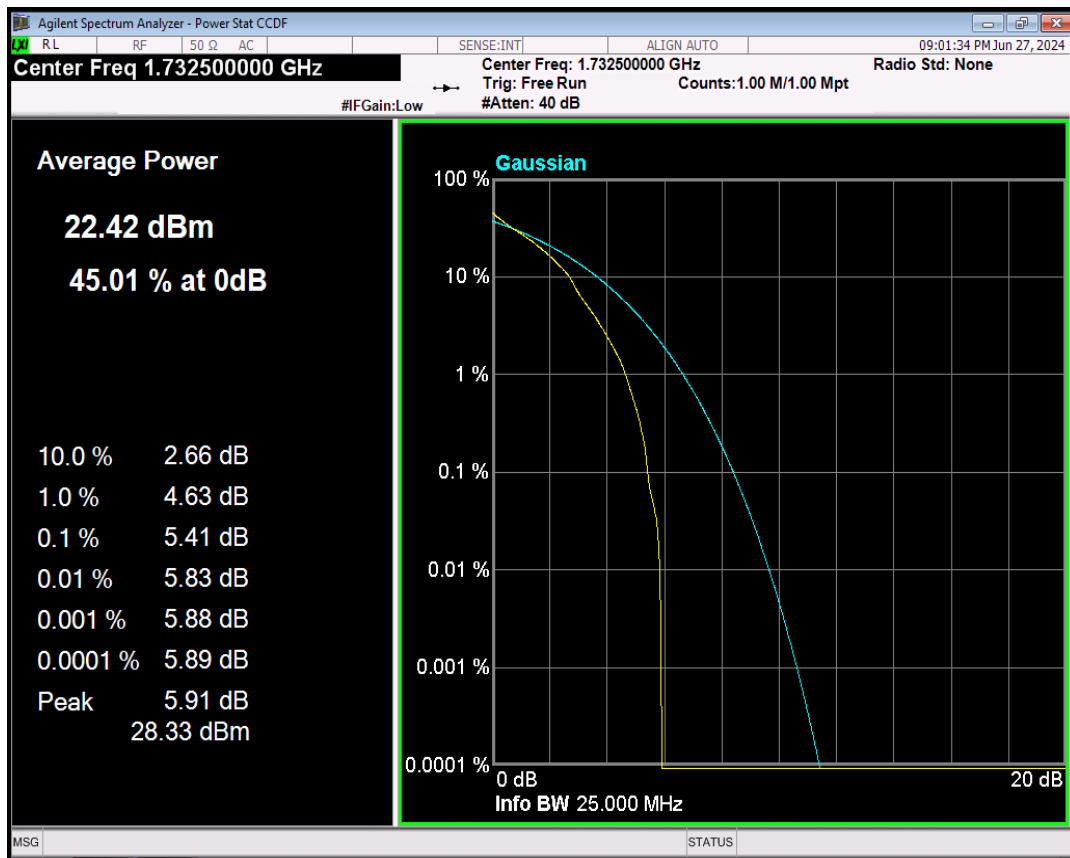


Band4 16QAM BW=20MHz Channel=20050 RB Size=1 Position=#0

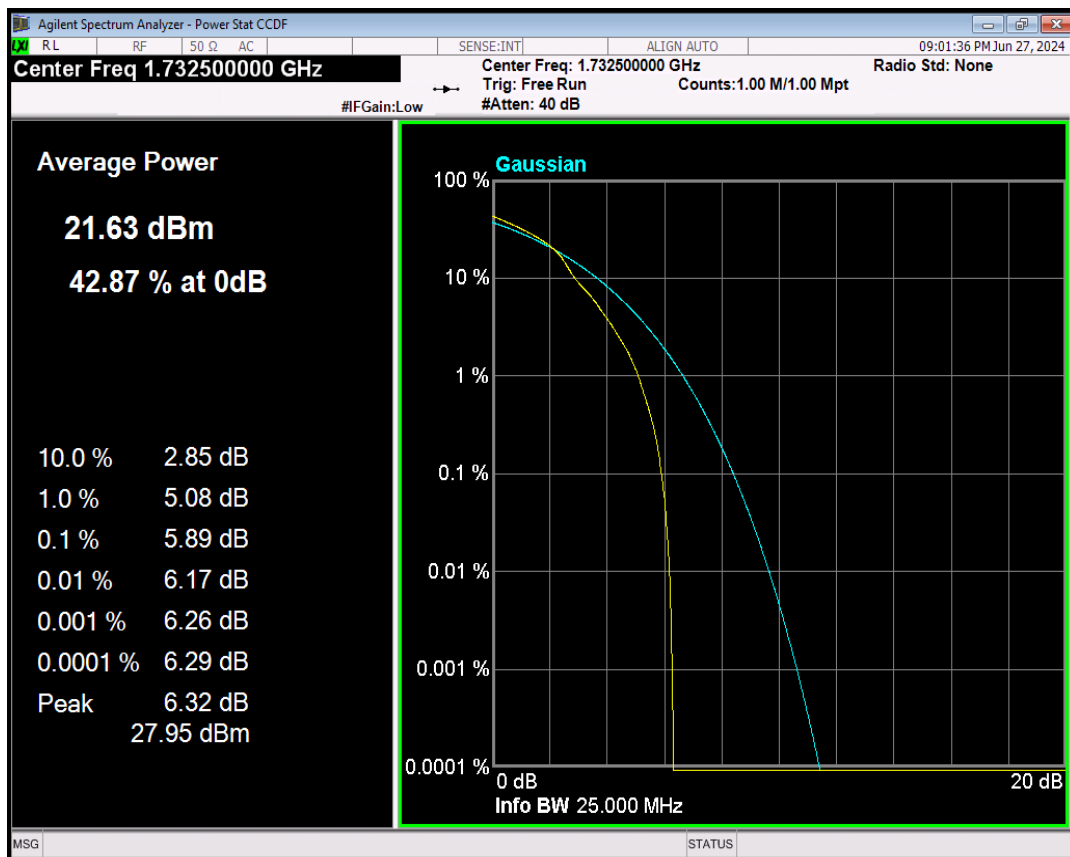




Band4 QPSK BW=20MHz Channel=20175 RB Size=1 Position=#0

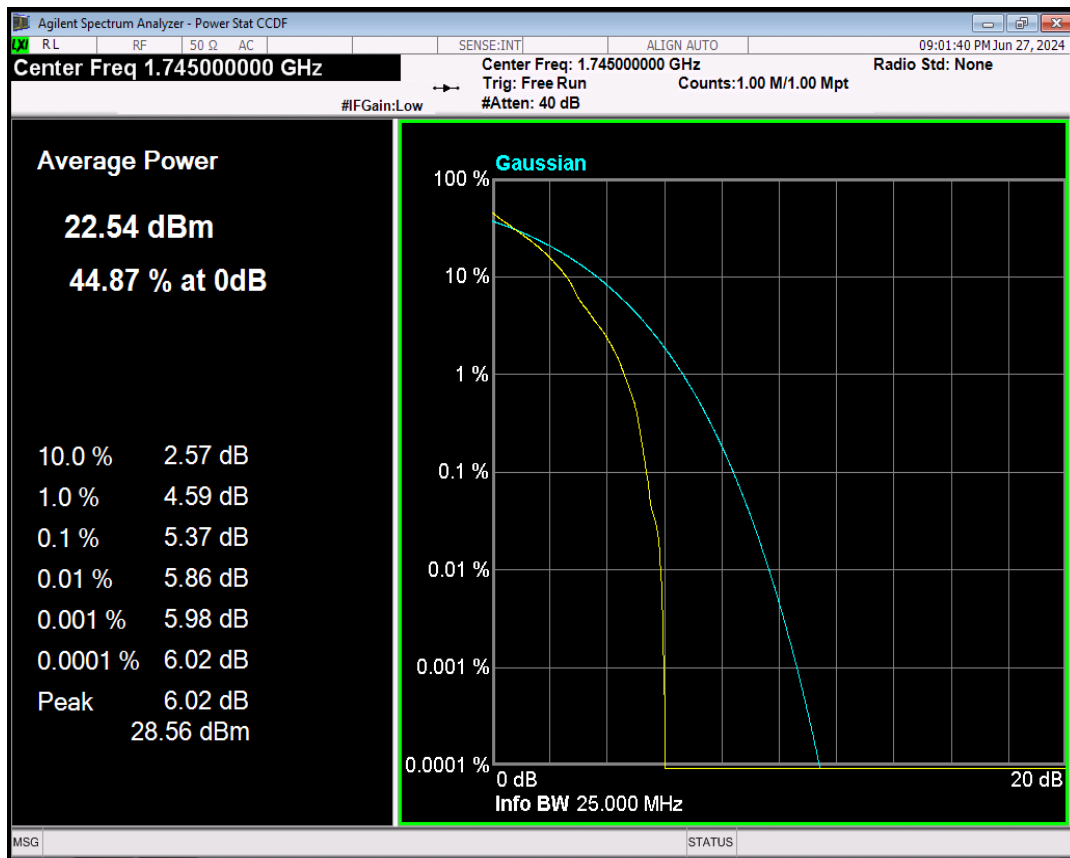


Band4 16QAM BW=20MHz Channel=20175 RB Size=1 Position=#0

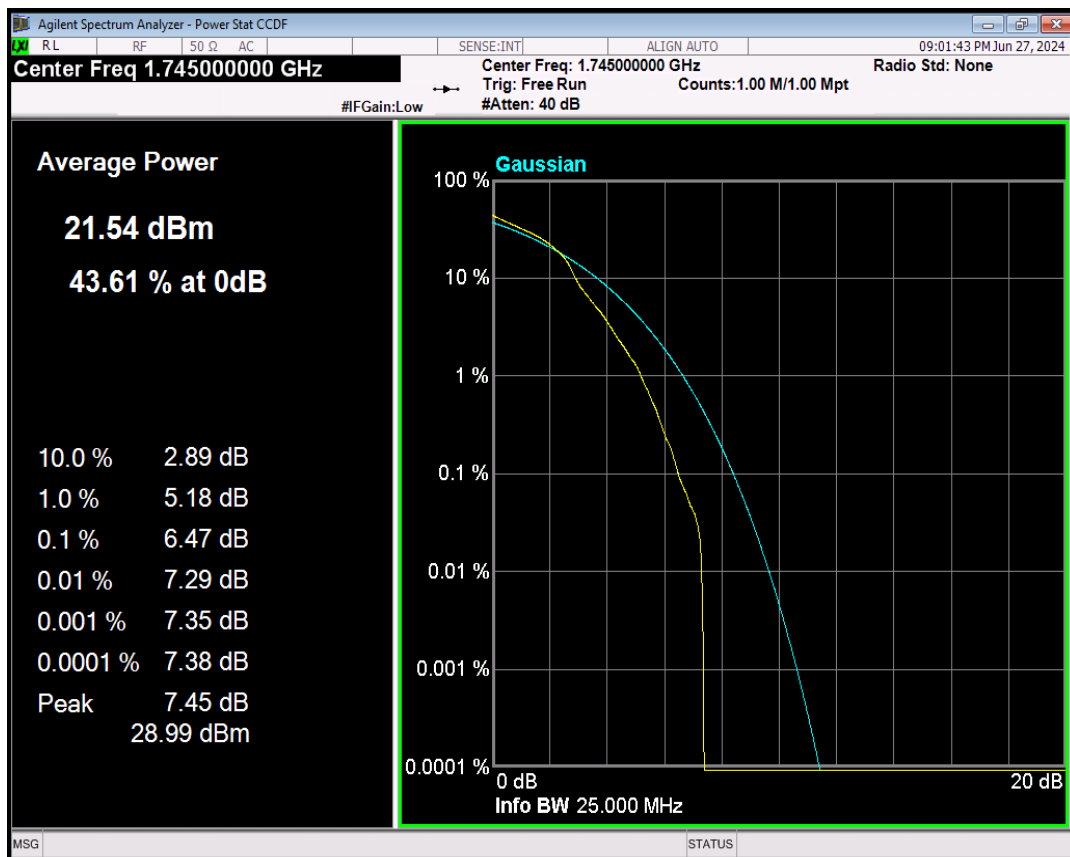




Band4 QPSK BW=20MHz Channel=20300 RB Size=1 Position=#0



Band4 16QAM BW=20MHz Channel=20300 RB Size=1 Position=#0

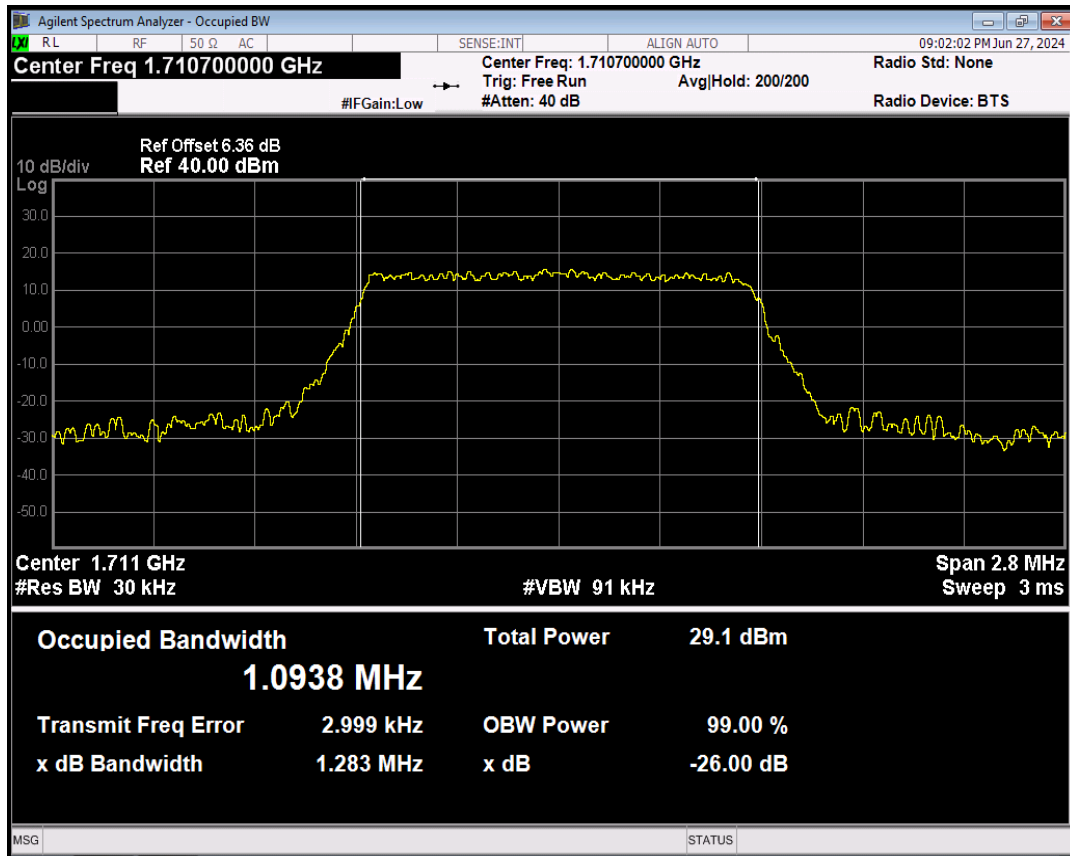


Appendix 4. Occupied bandwidth

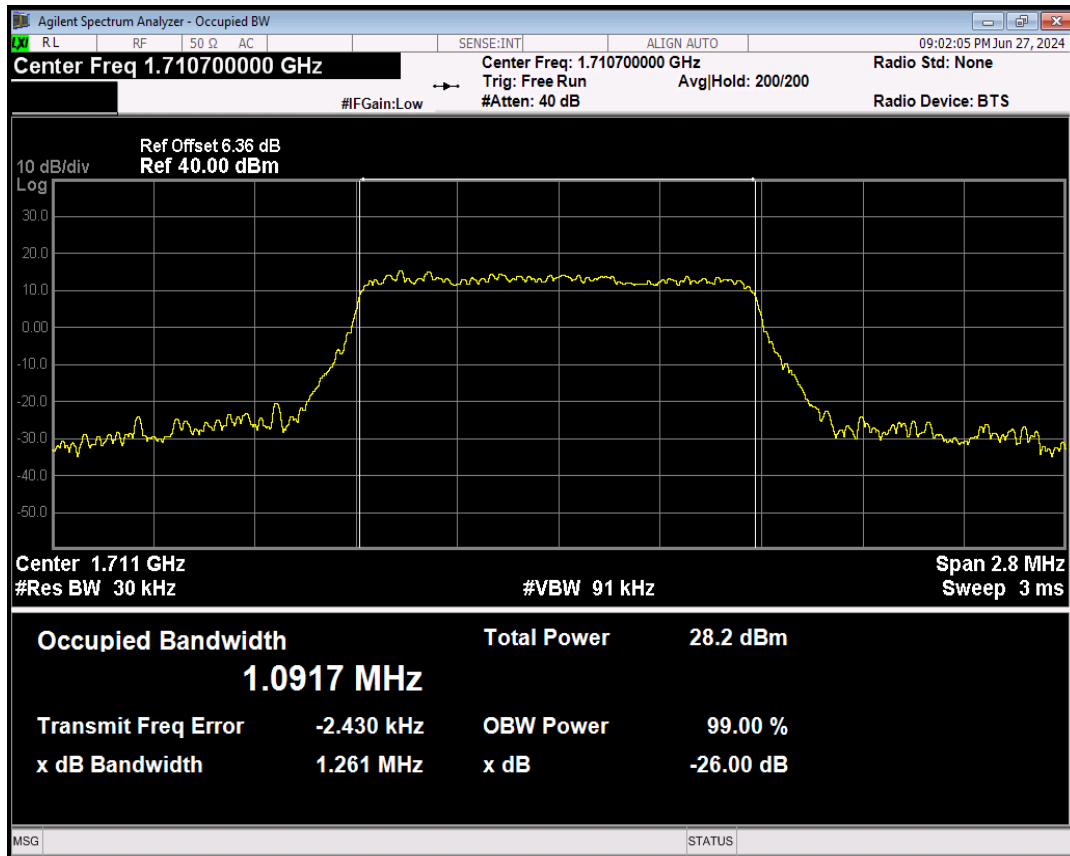
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band4	1.4	19957	6	#0	QPSK	1.094	1.283	PASS
Band4	1.4	19957	6	#0	16QAM	1.092	1.261	PASS
Band4	1.4	20175	6	#0	QPSK	1.095	1.270	PASS
Band4	1.4	20175	6	#0	16QAM	1.095	1.280	PASS
Band4	1.4	20393	6	#0	QPSK	1.095	1.279	PASS
Band4	1.4	20393	6	#0	16QAM	1.094	1.307	PASS
Band4	3	19965	15	#0	QPSK	2.688	2.911	PASS
Band4	3	19965	15	#0	16QAM	2.697	2.919	PASS
Band4	3	20175	15	#0	QPSK	2.695	2.905	PASS
Band4	3	20175	15	#0	16QAM	2.697	2.920	PASS
Band4	3	20385	15	#0	QPSK	2.690	2.916	PASS
Band4	3	20385	15	#0	16QAM	2.689	2.905	PASS
Band4	5	19975	25	#0	QPSK	4.533	5.175	PASS
Band4	5	19975	25	#0	16QAM	4.516	5.116	PASS
Band4	5	20175	25	#0	QPSK	4.518	5.053	PASS
Band4	5	20175	25	#0	16QAM	4.532	5.041	PASS
Band4	5	20375	25	#0	QPSK	4.503	5.053	PASS
Band4	5	20375	25	#0	16QAM	4.508	5.118	PASS
Band4	10	20000	50	#0	QPSK	9.026	10.069	PASS
Band4	10	20000	50	#0	16QAM	9.024	10.032	PASS
Band4	10	20175	50	#0	QPSK	8.984	10.059	PASS
Band4	10	20175	50	#0	16QAM	9.012	10.043	PASS
Band4	10	20350	50	#0	QPSK	8.971	9.897	PASS
Band4	10	20350	50	#0	16QAM	9.022	9.954	PASS
Band4	15	20025	75	#0	QPSK	13.503	14.796	PASS
Band4	15	20025	75	#0	16QAM	13.546	15.035	PASS
Band4	15	20175	75	#0	QPSK	13.506	14.854	PASS
Band4	15	20175	75	#0	16QAM	13.479	14.868	PASS
Band4	15	20325	75	#0	QPSK	13.442	14.690	PASS
Band4	15	20325	75	#0	16QAM	13.471	14.746	PASS
Band4	20	20050	100	#0	QPSK	18.016	19.866	PASS
Band4	20	20050	100	#0	16QAM	17.985	19.668	PASS
Band4	20	20175	100	#0	QPSK	17.925	19.505	PASS
Band4	20	20175	100	#0	16QAM	17.981	19.536	PASS
Band4	20	20300	100	#0	QPSK	17.969	19.505	PASS
Band4	20	20300	100	#0	16QAM	17.947	19.454	PASS



Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0

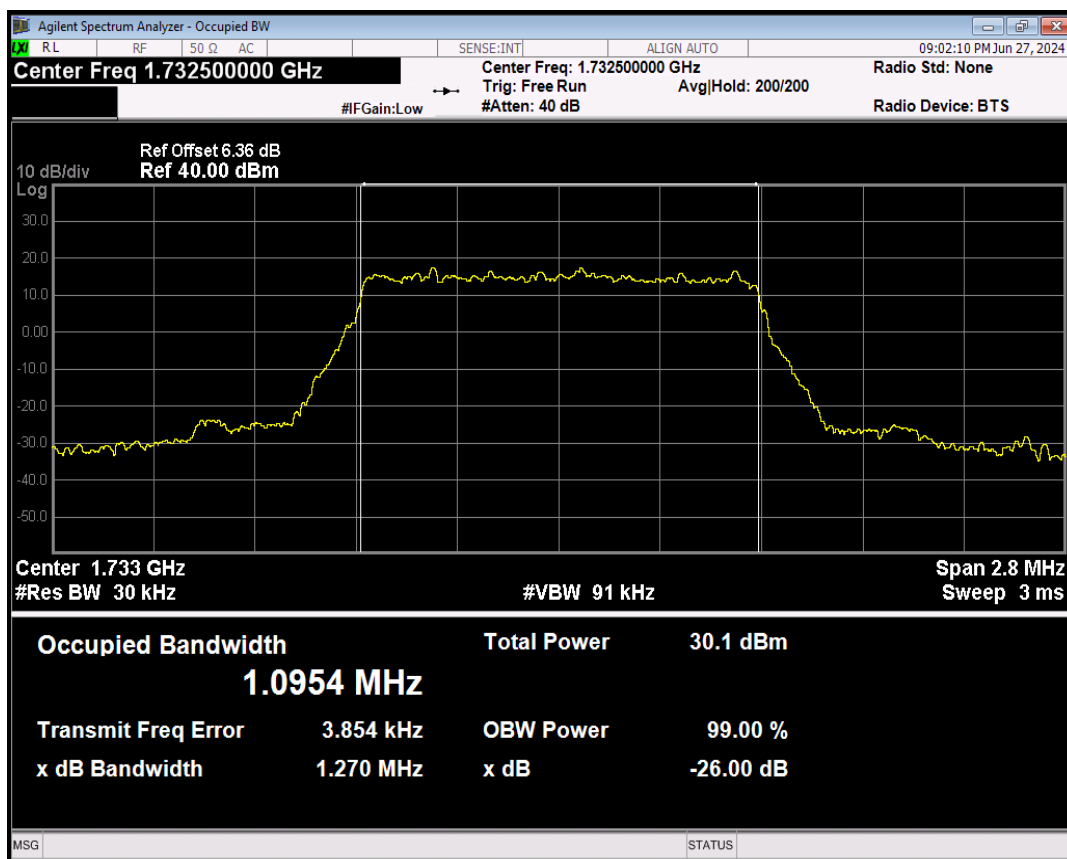


Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0

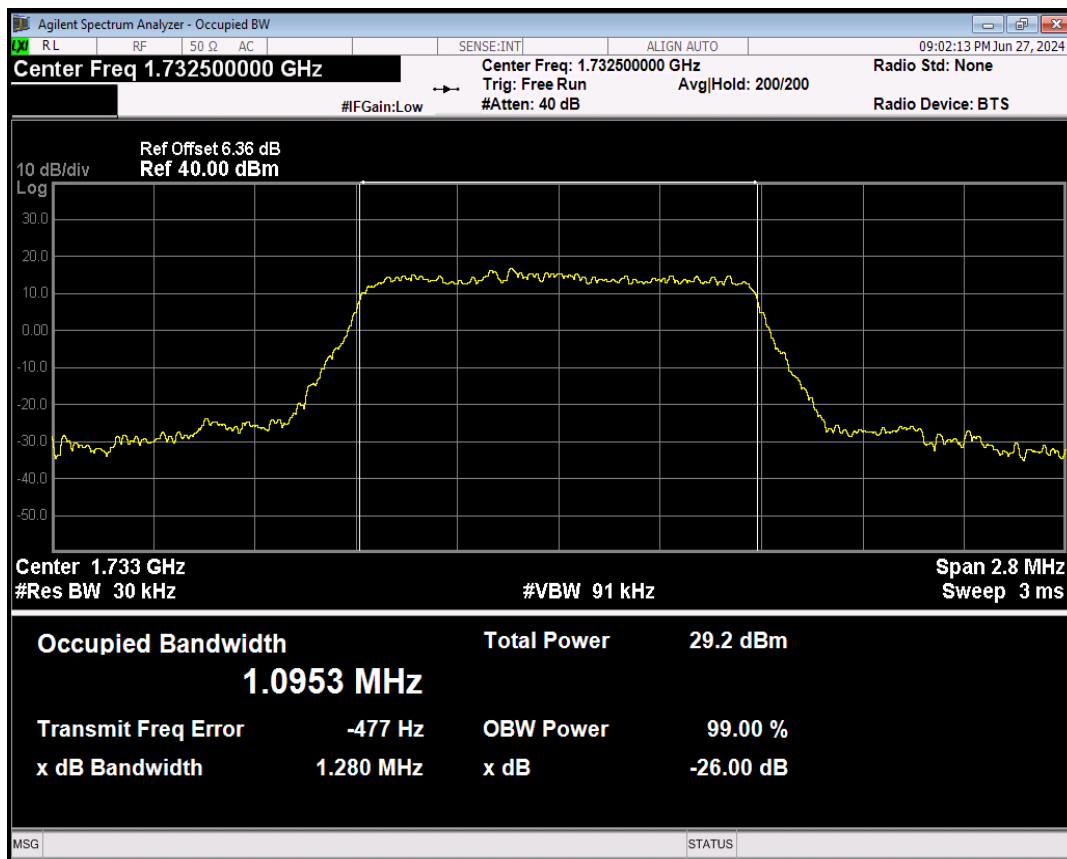




Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0

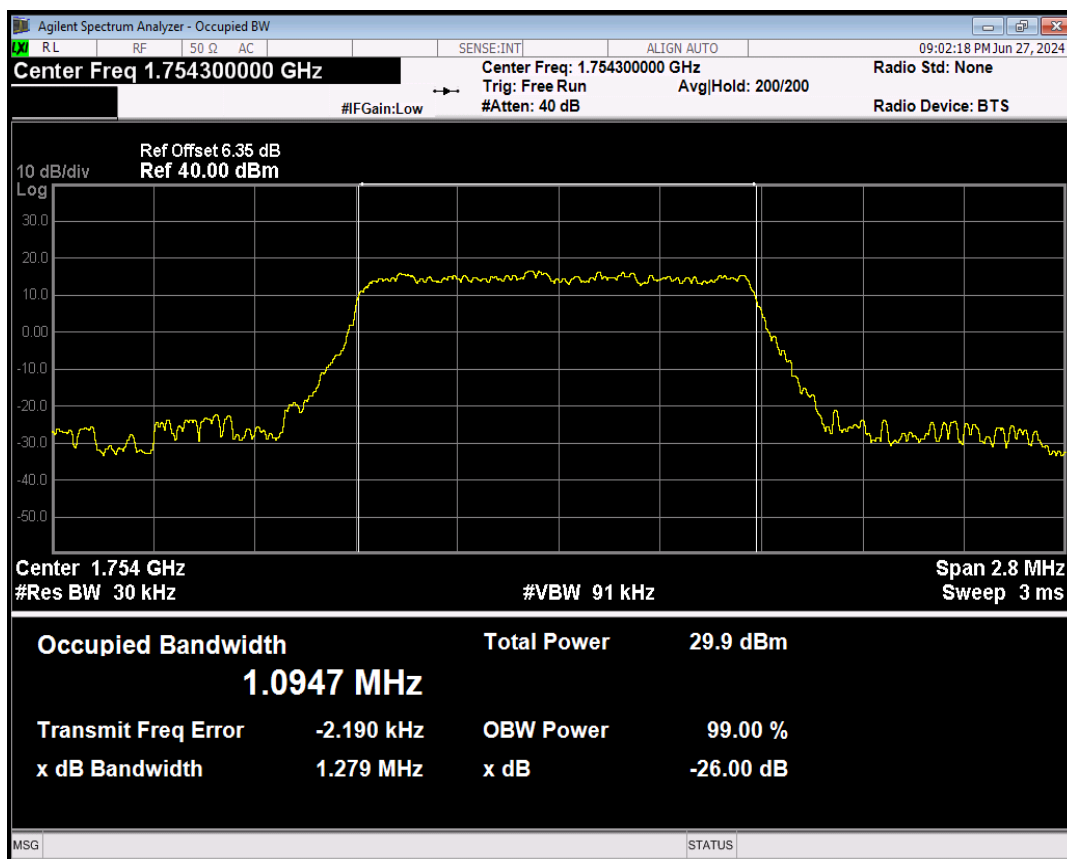


Band4 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0

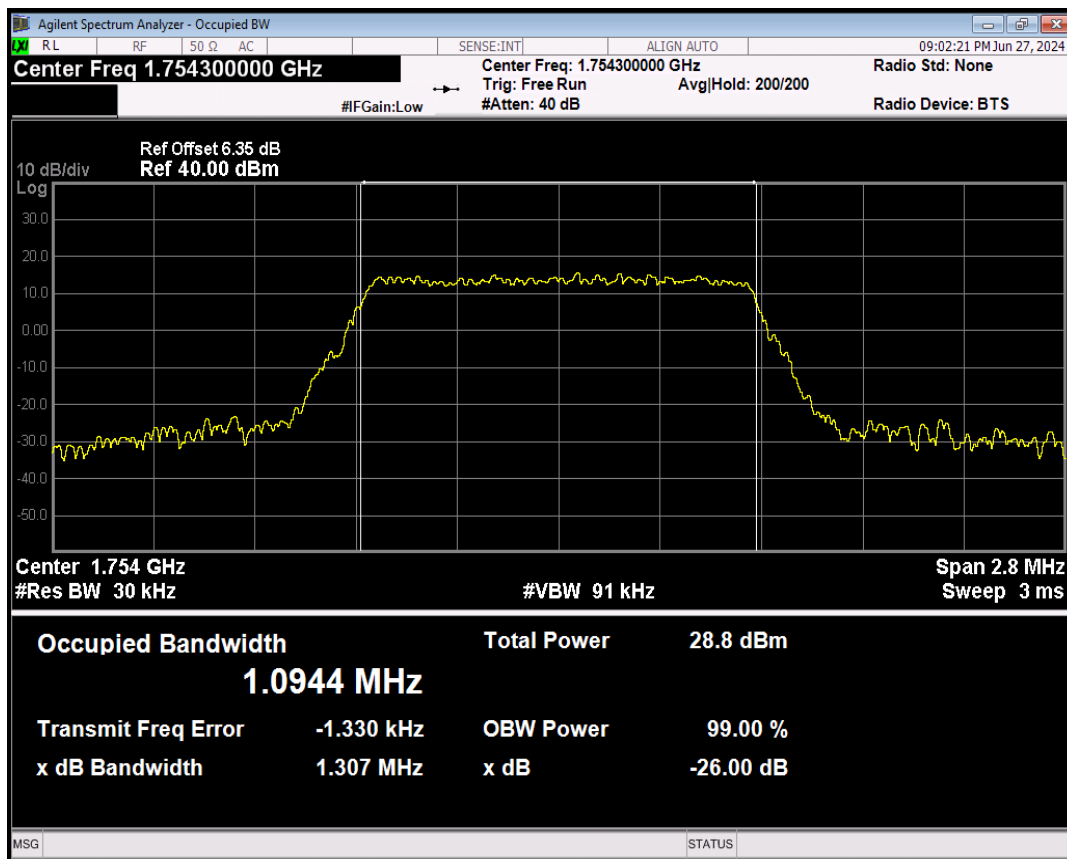




Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

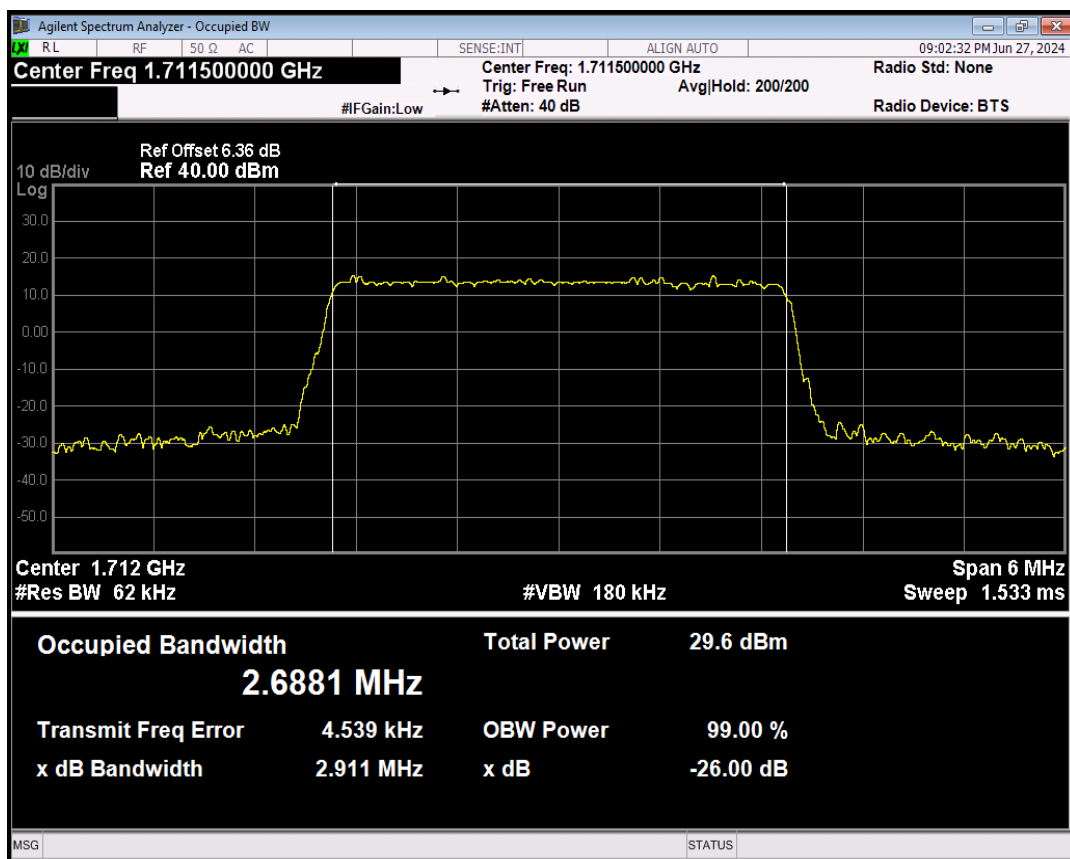


Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0

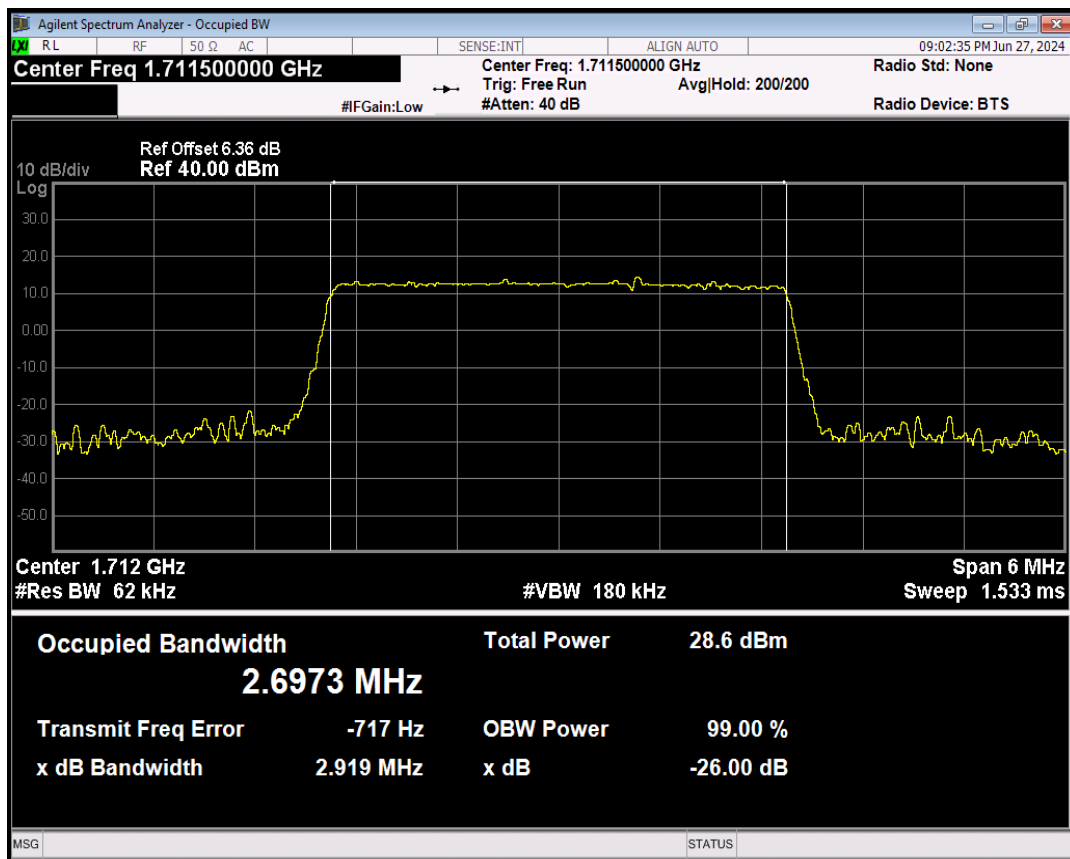




Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0

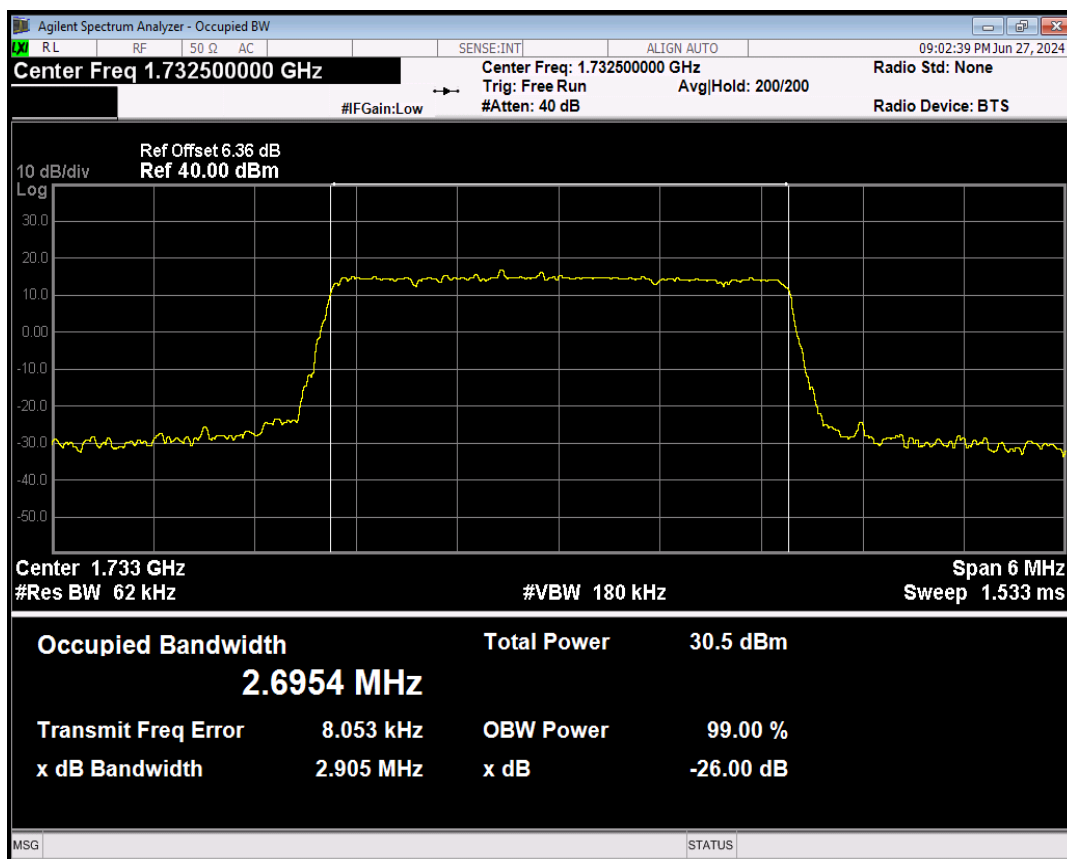


Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0

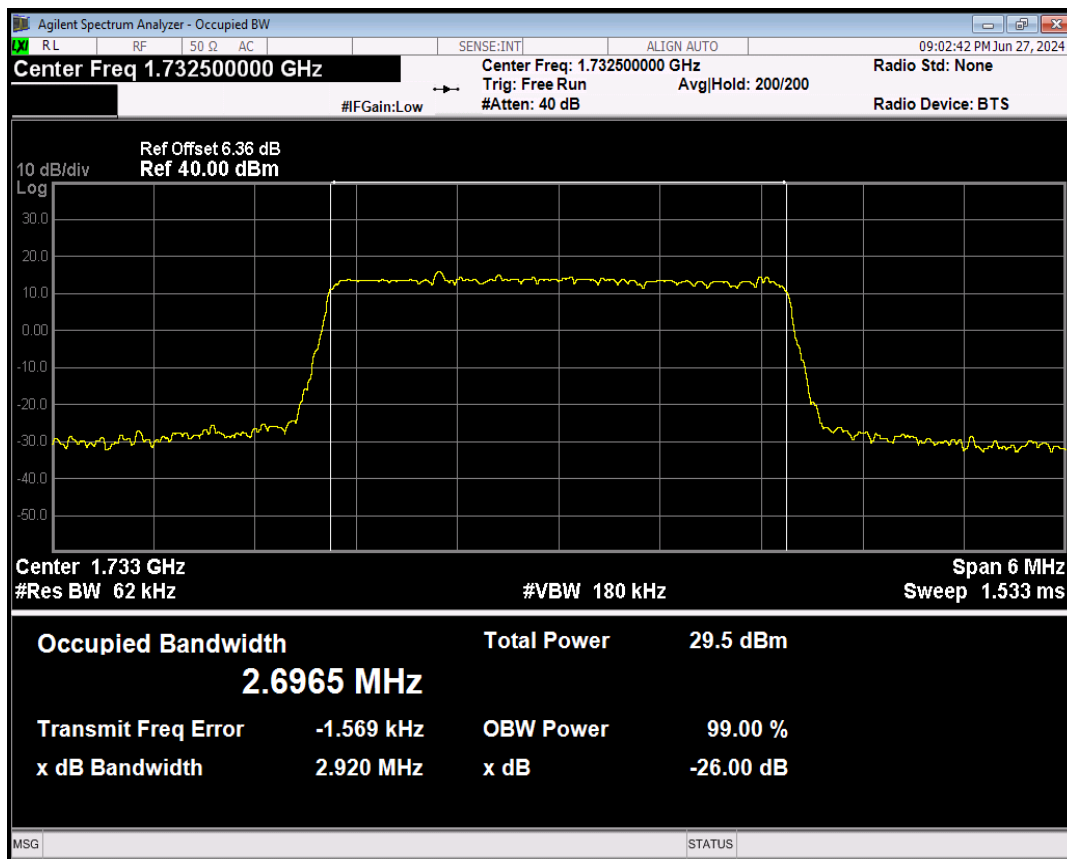




Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0

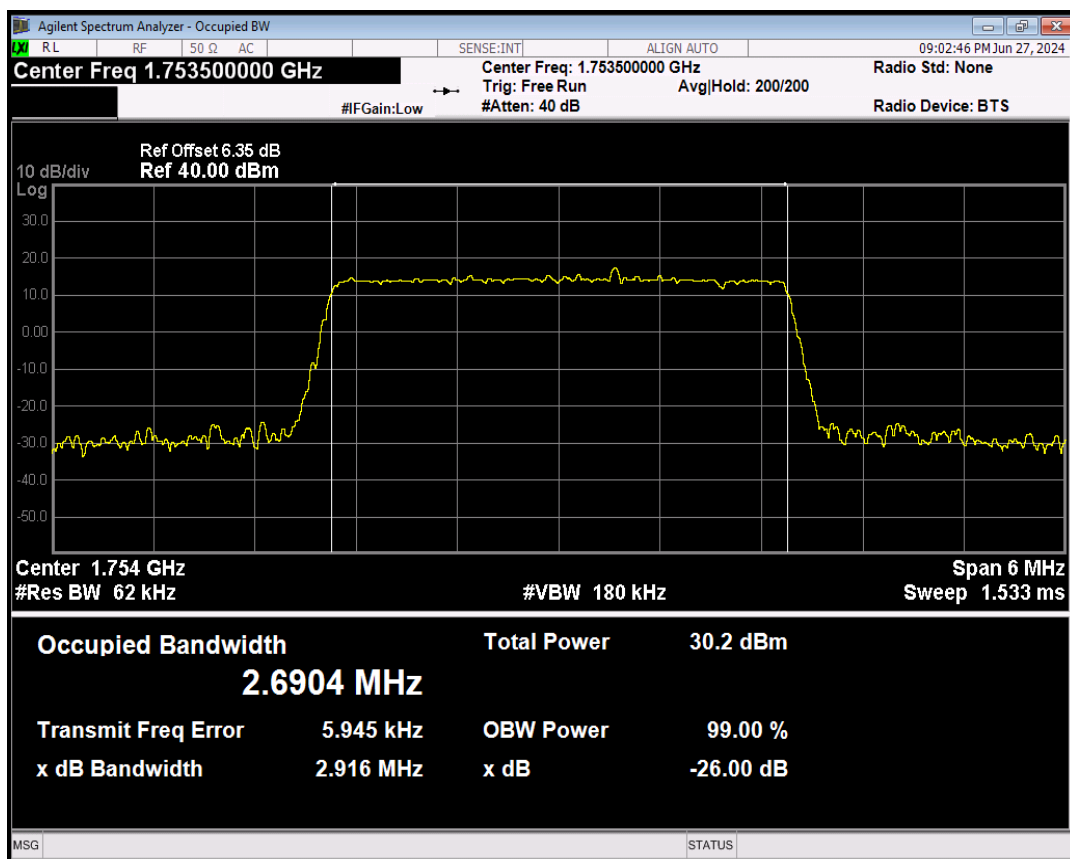


Band4 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0

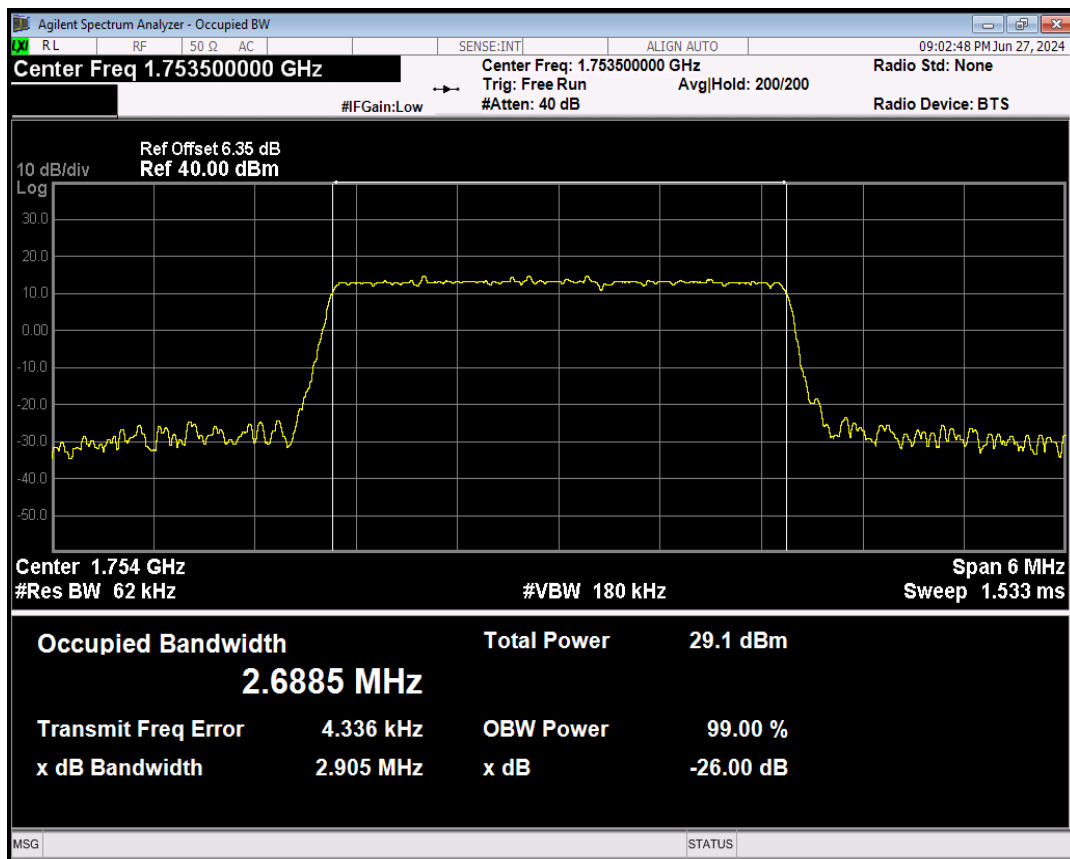




Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

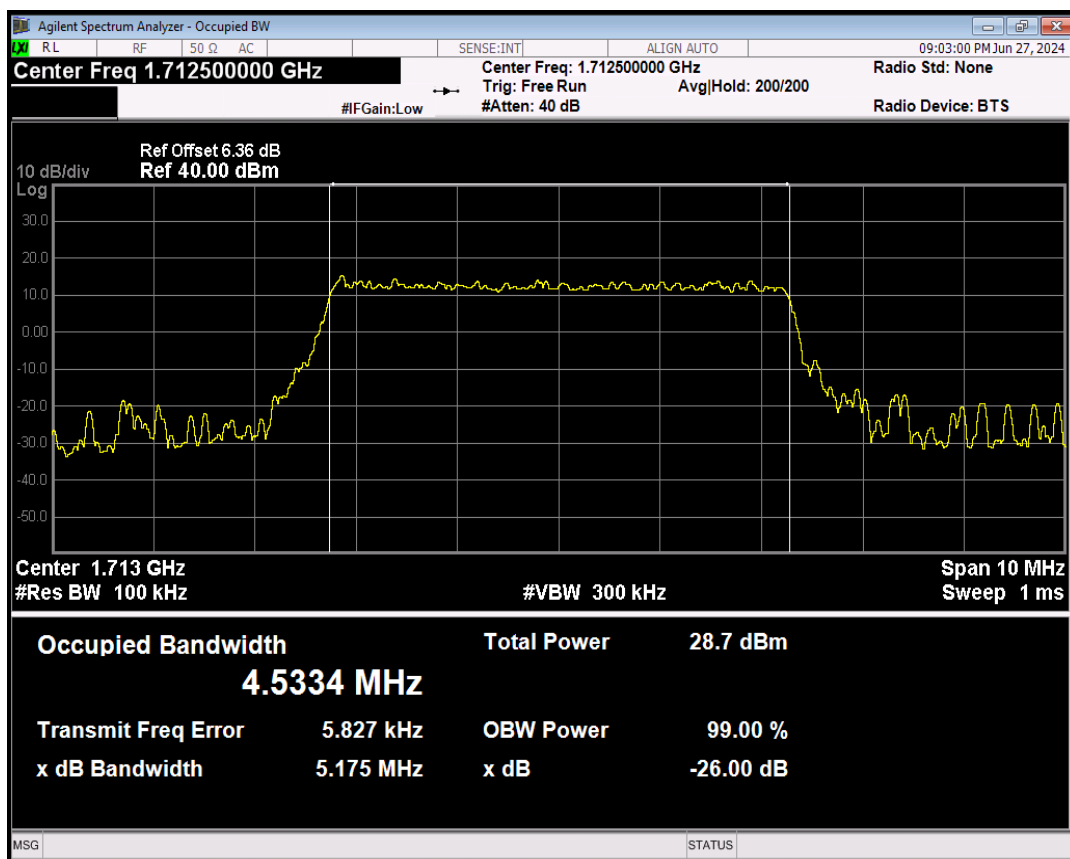


Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0

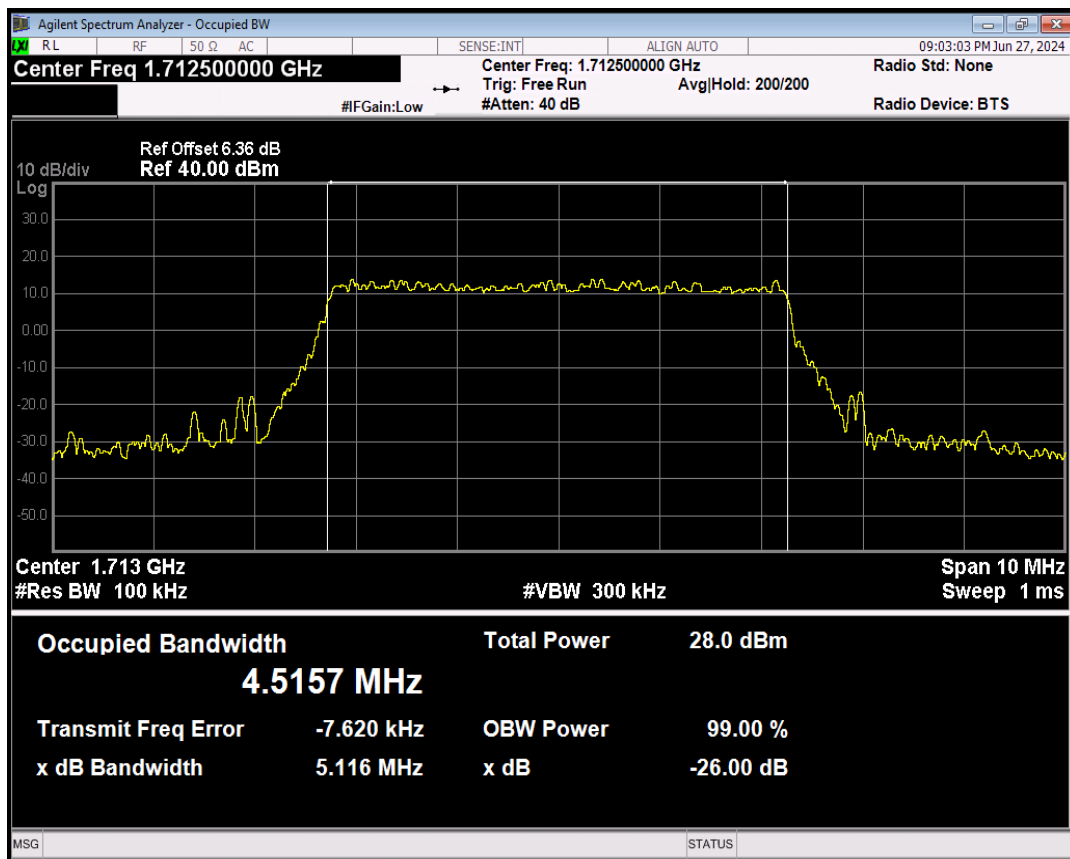




Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0

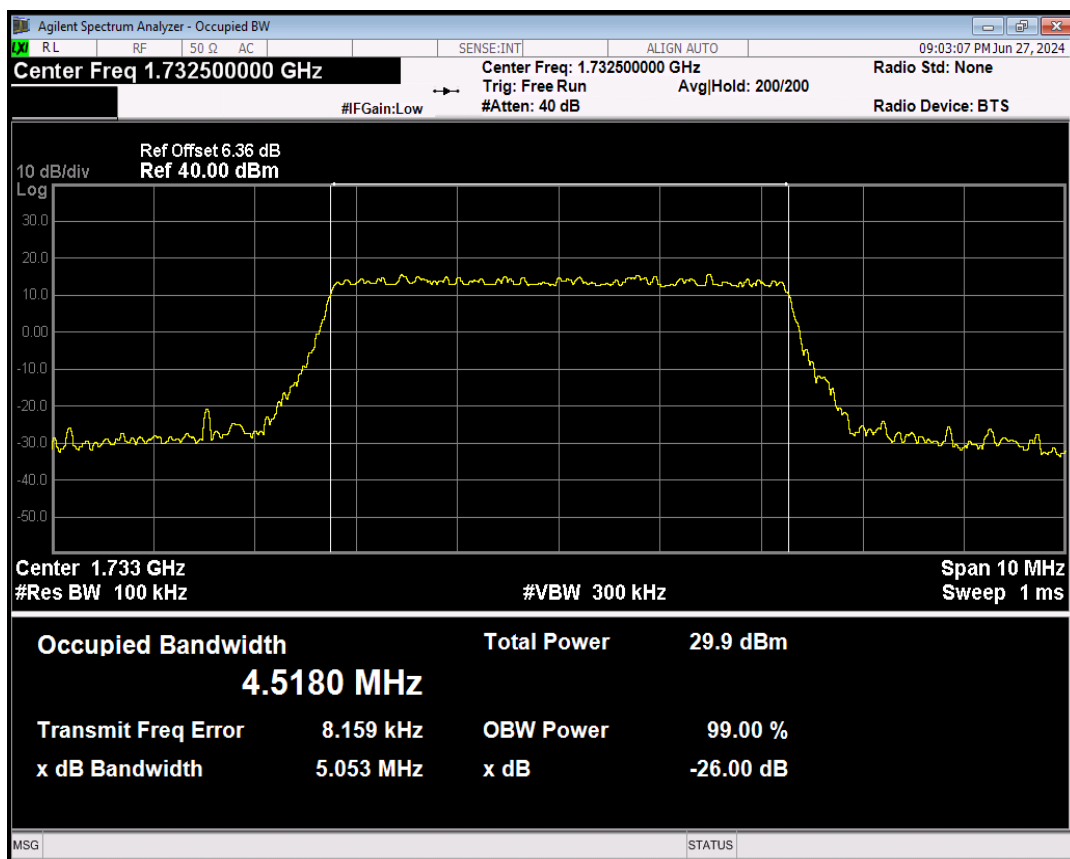


Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0

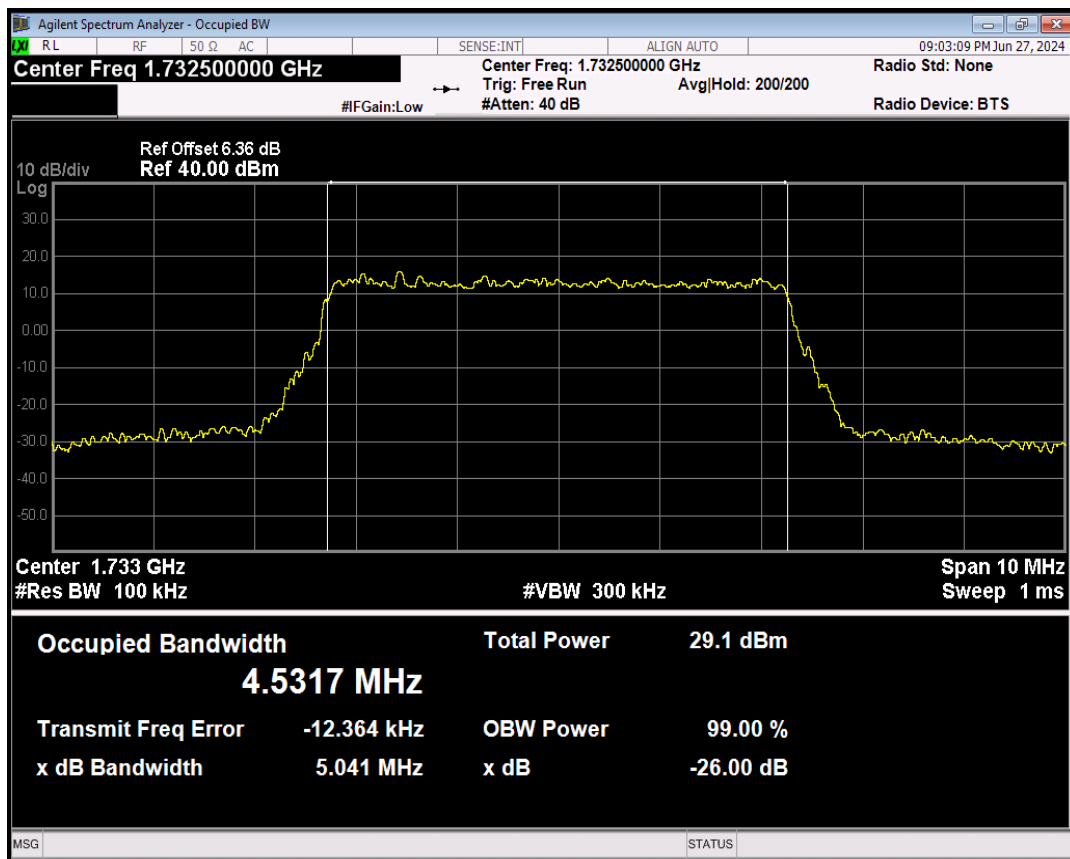




Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0

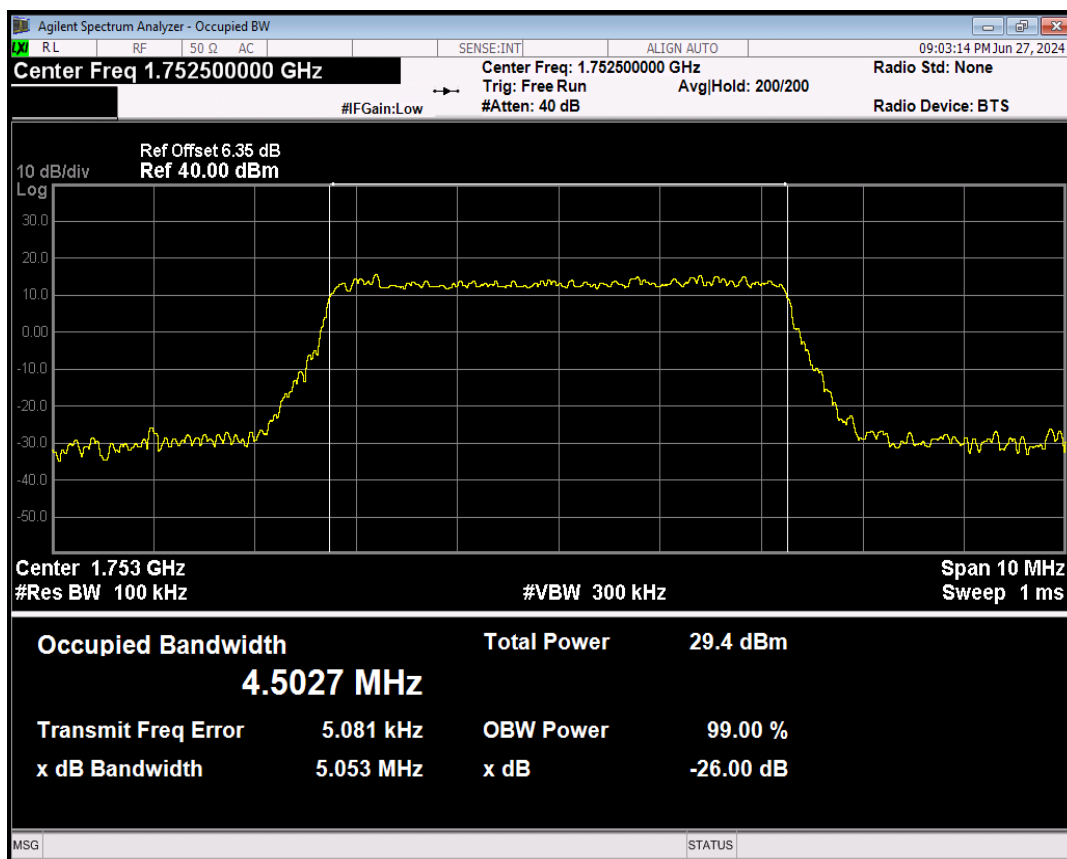


Band4 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0

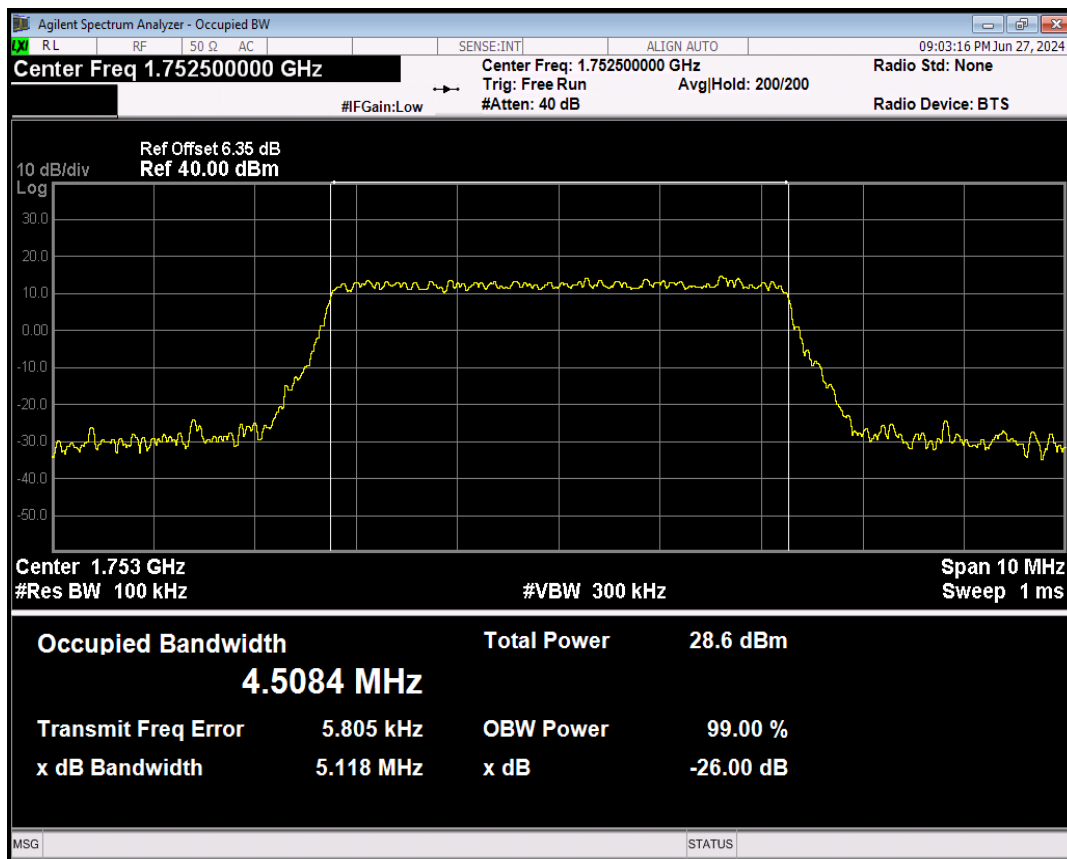




Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

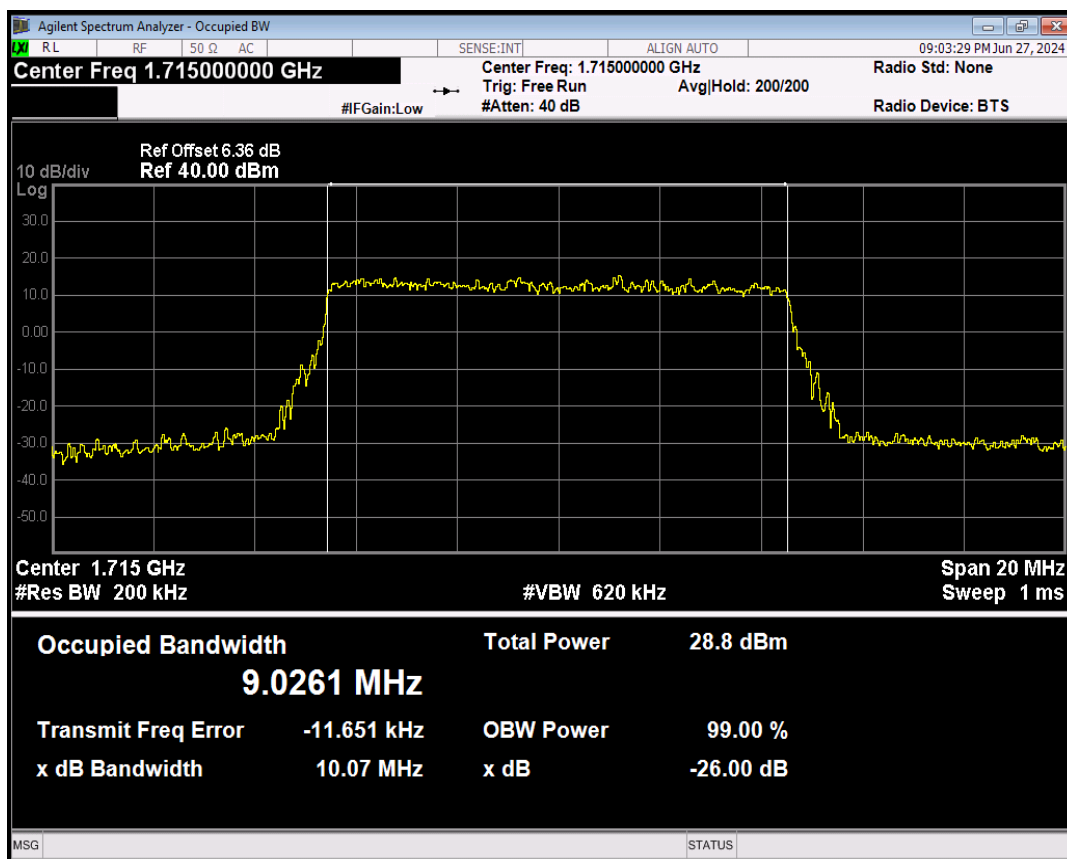


Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0

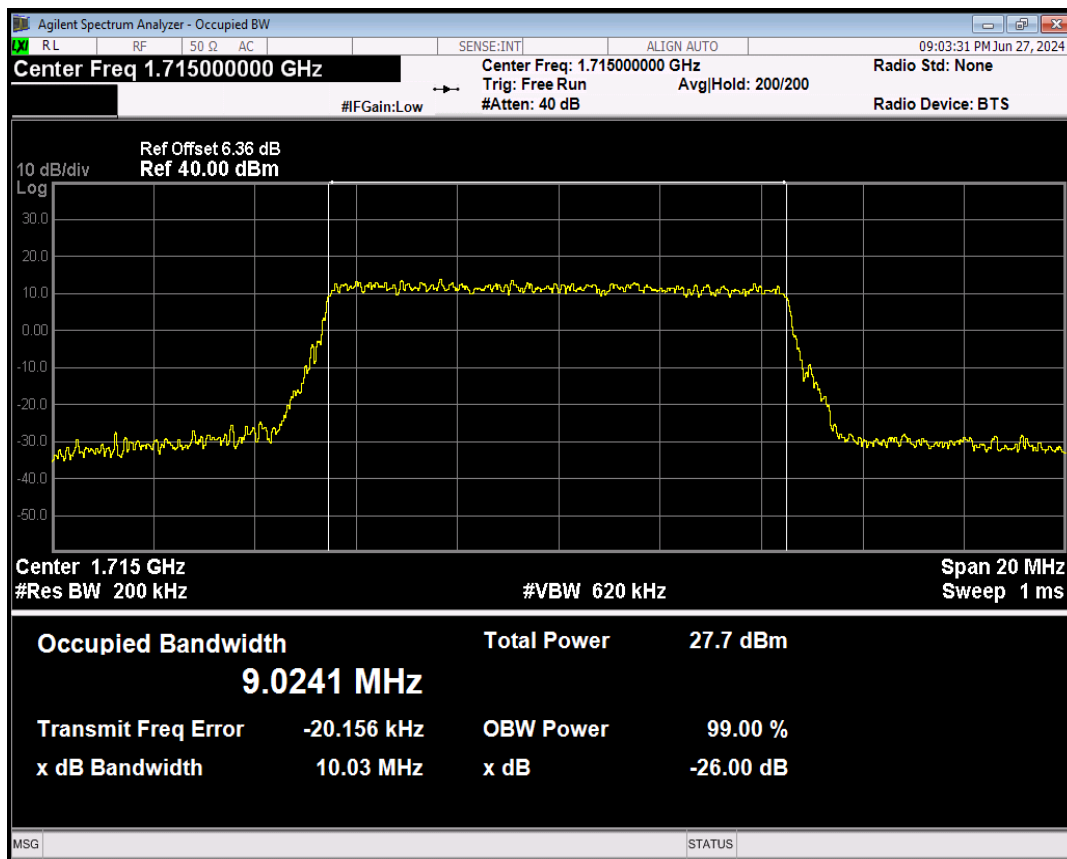




Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0

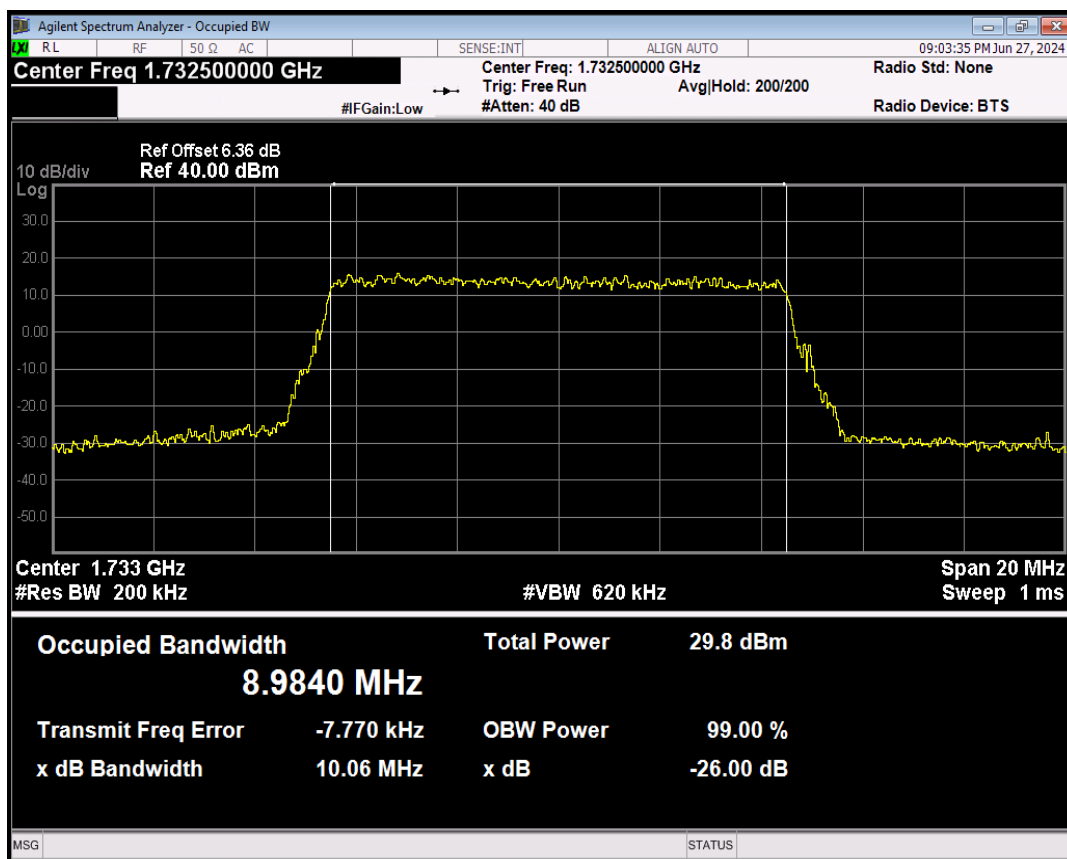


Band4 16QAM BW=10MHz Channel=20000 RB Size=50 Position=#0

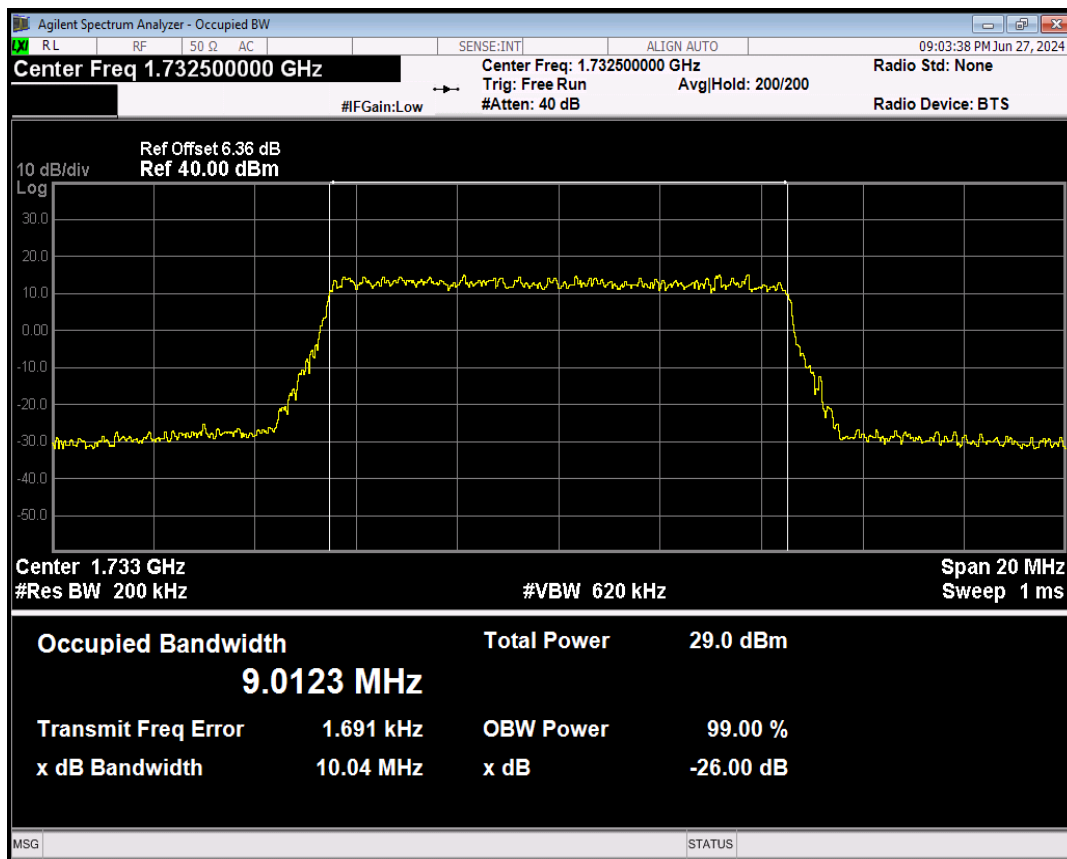




Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0

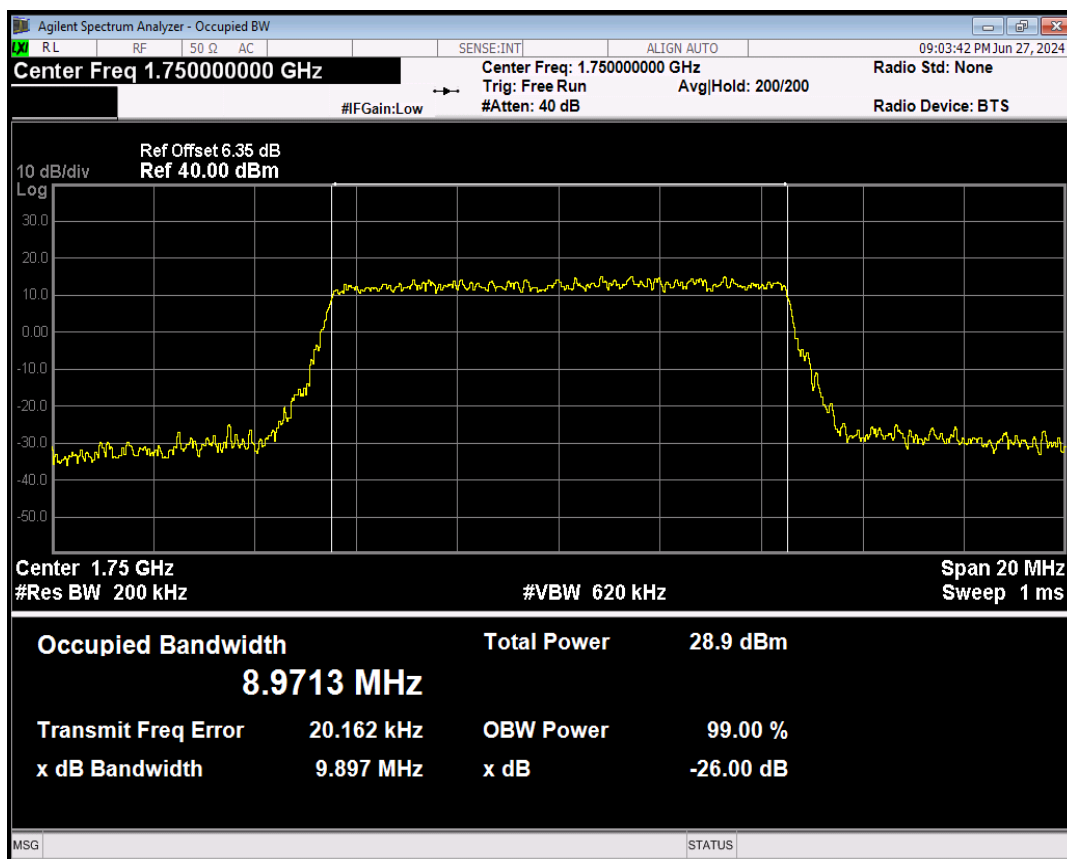


Band4 16QAM BW=10MHz Channel=20175 RB Size=50 Position=#0

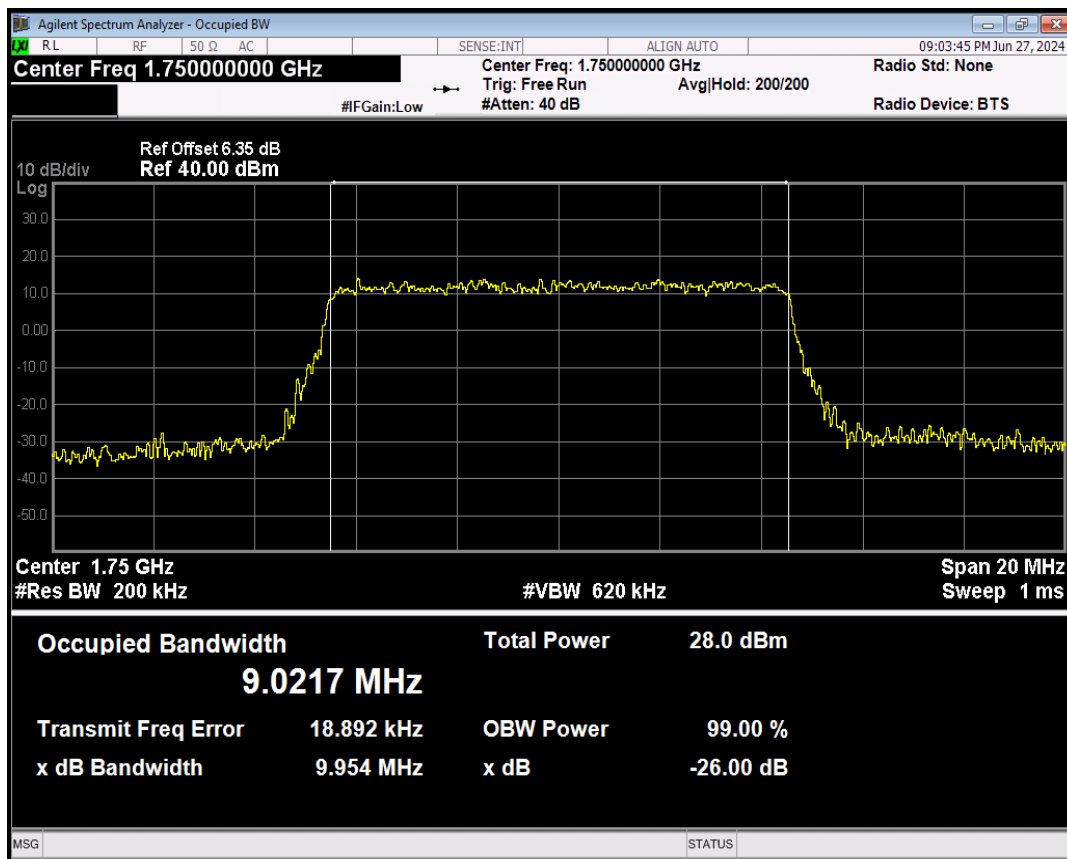




Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

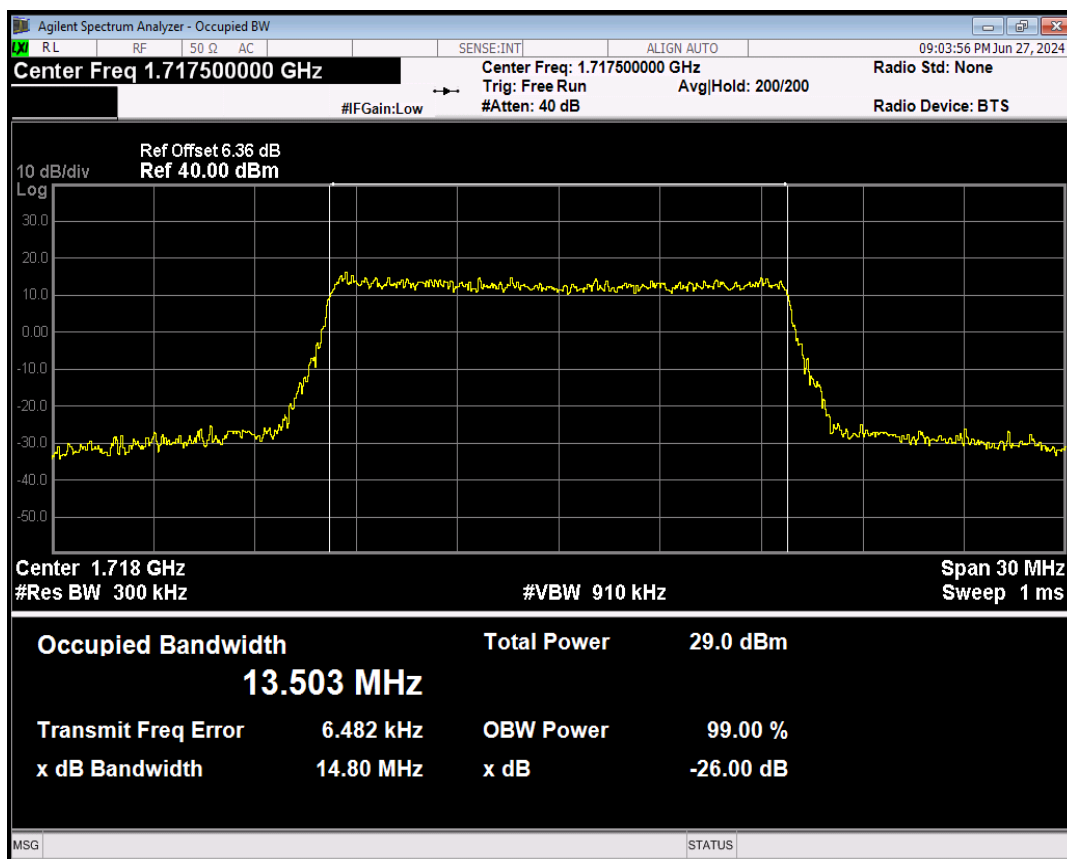


Band4 16QAM BW=10MHz Channel=20350 RB Size=50 Position=#0

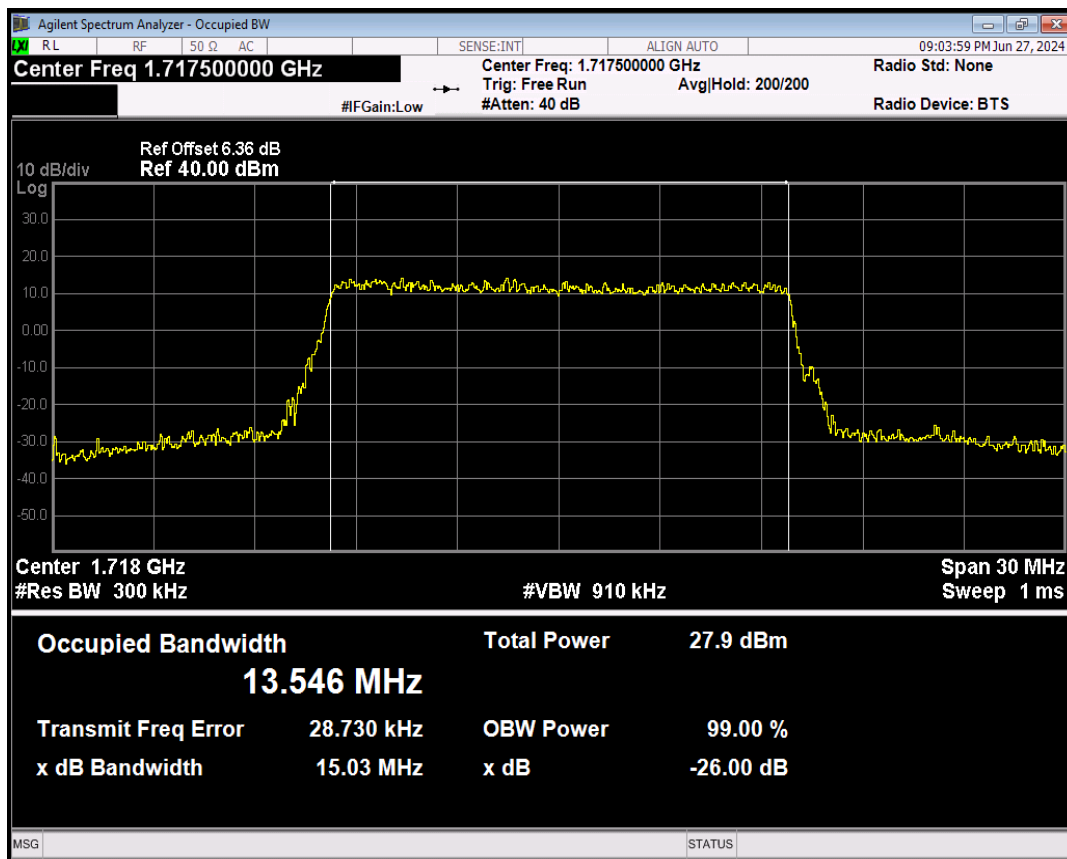




Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0

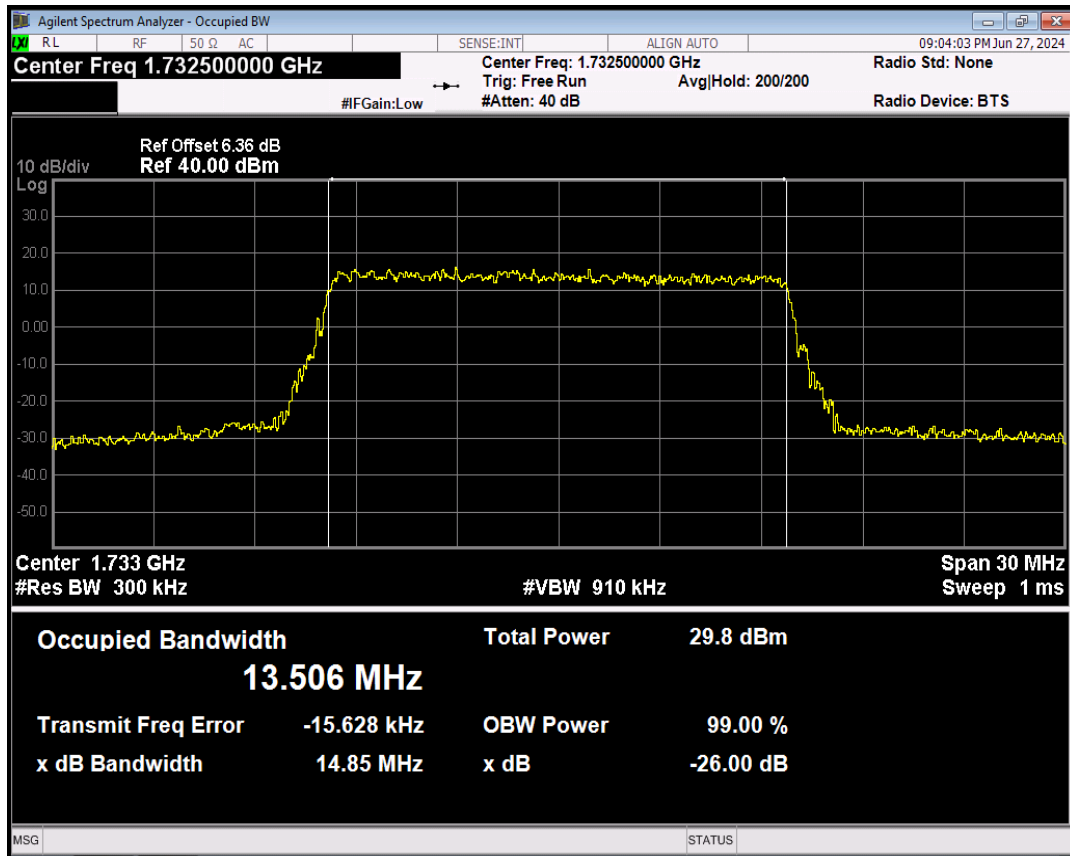


Band4 16QAM BW=15MHz Channel=20025 RB Size=75 Position=#0

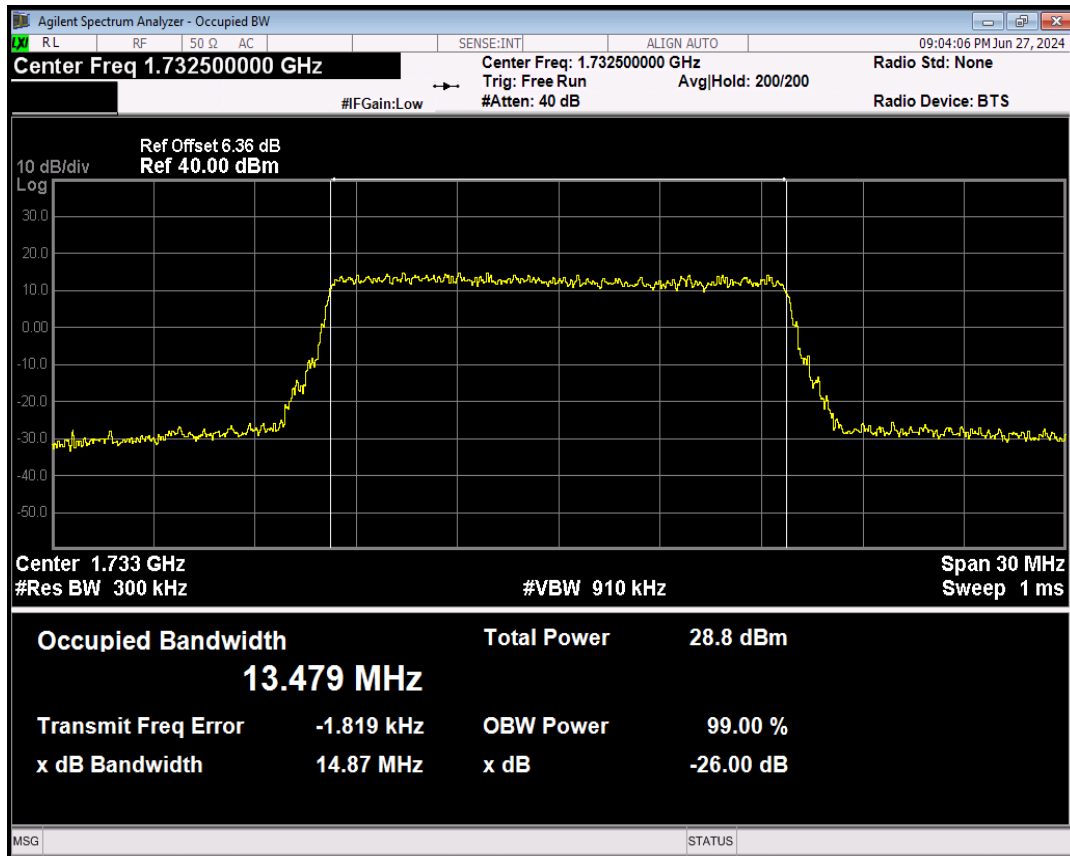




Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0

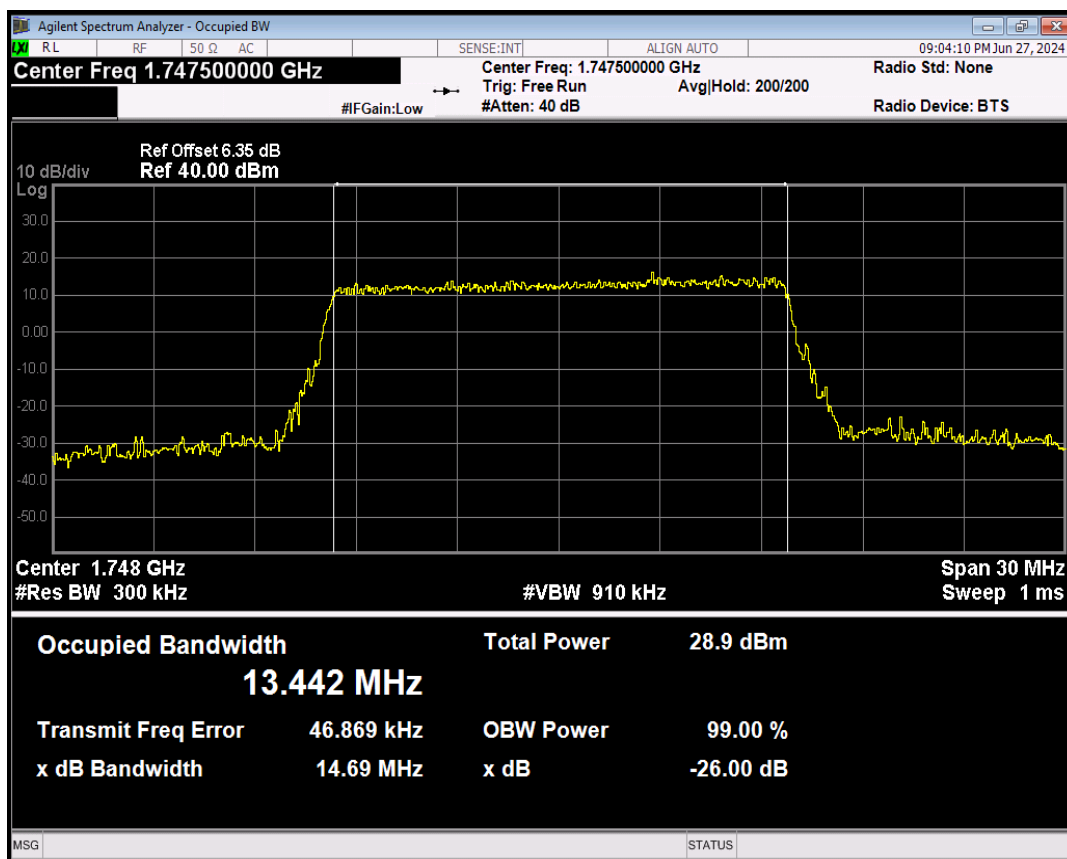


Band4 16QAM BW=15MHz Channel=20175 RB Size=75 Position=#0

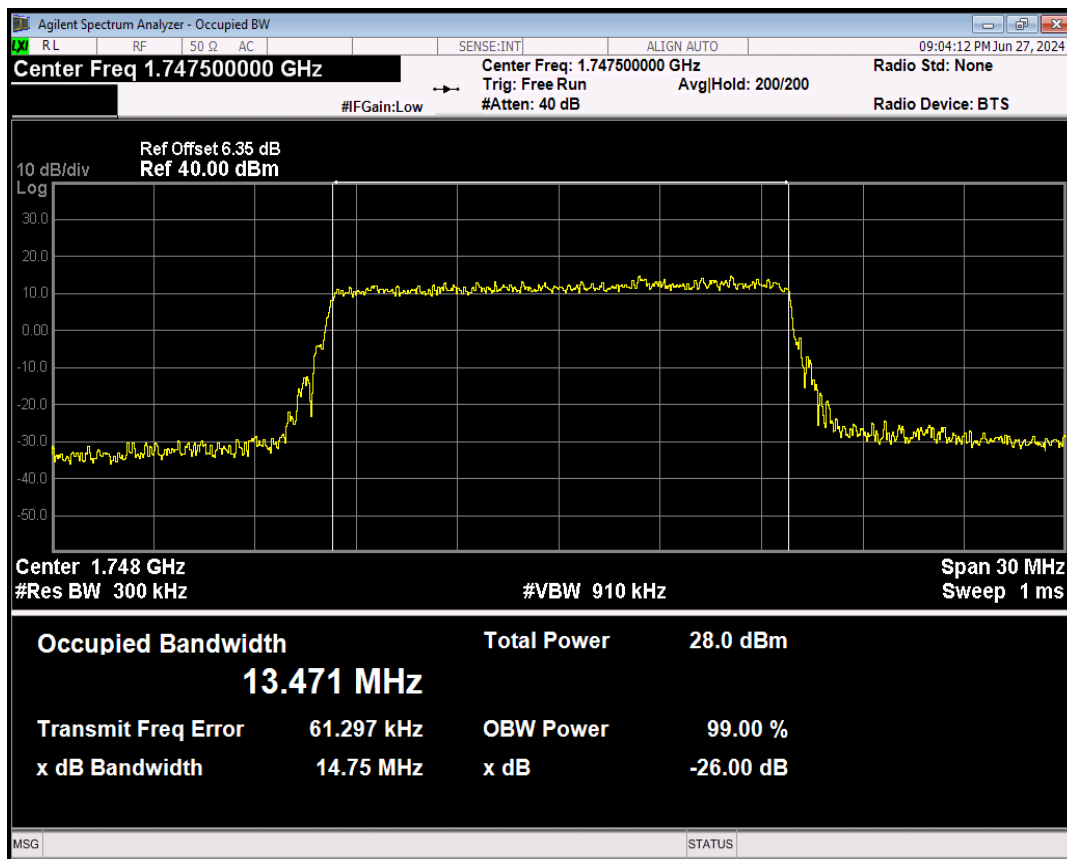




Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0

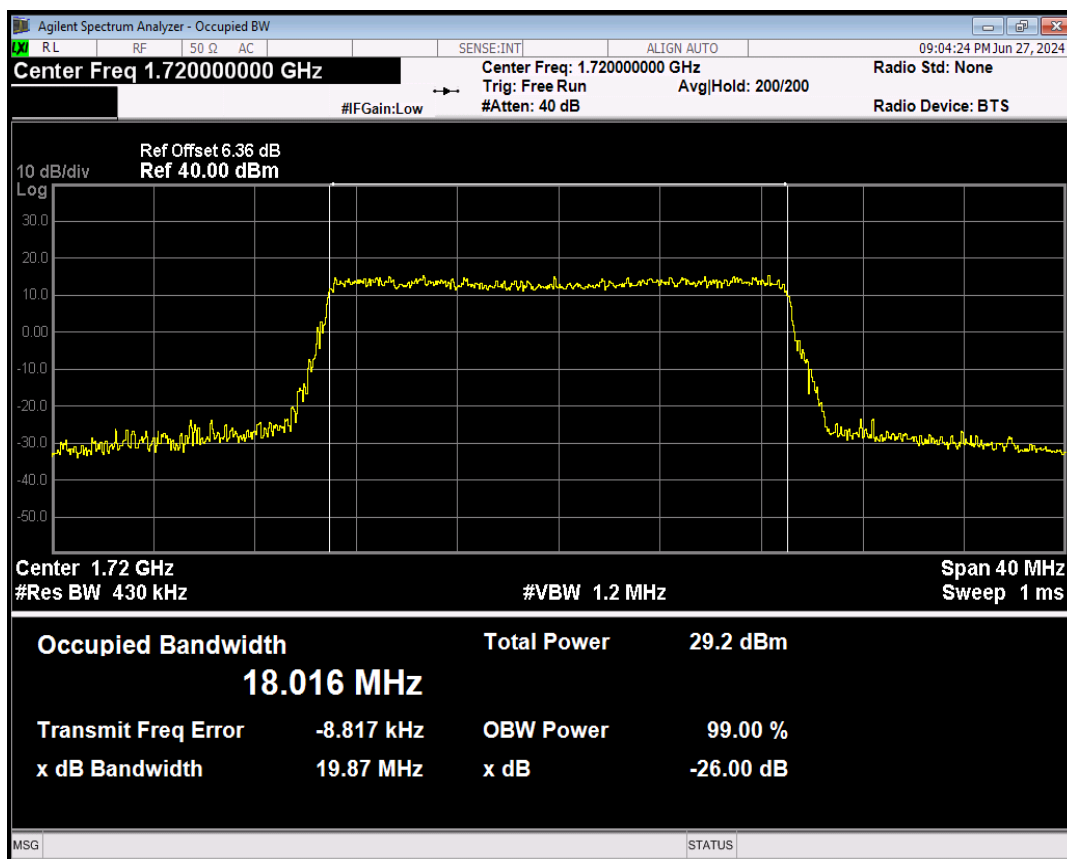


Band4 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0

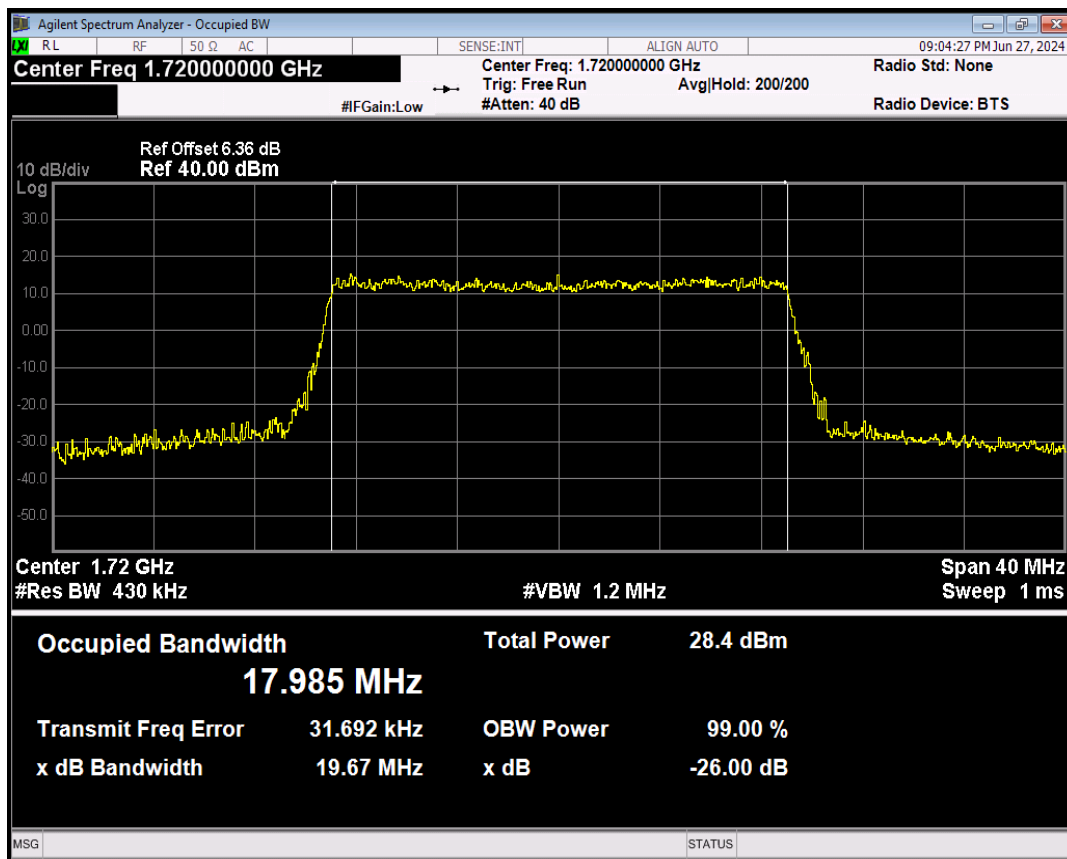




Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0

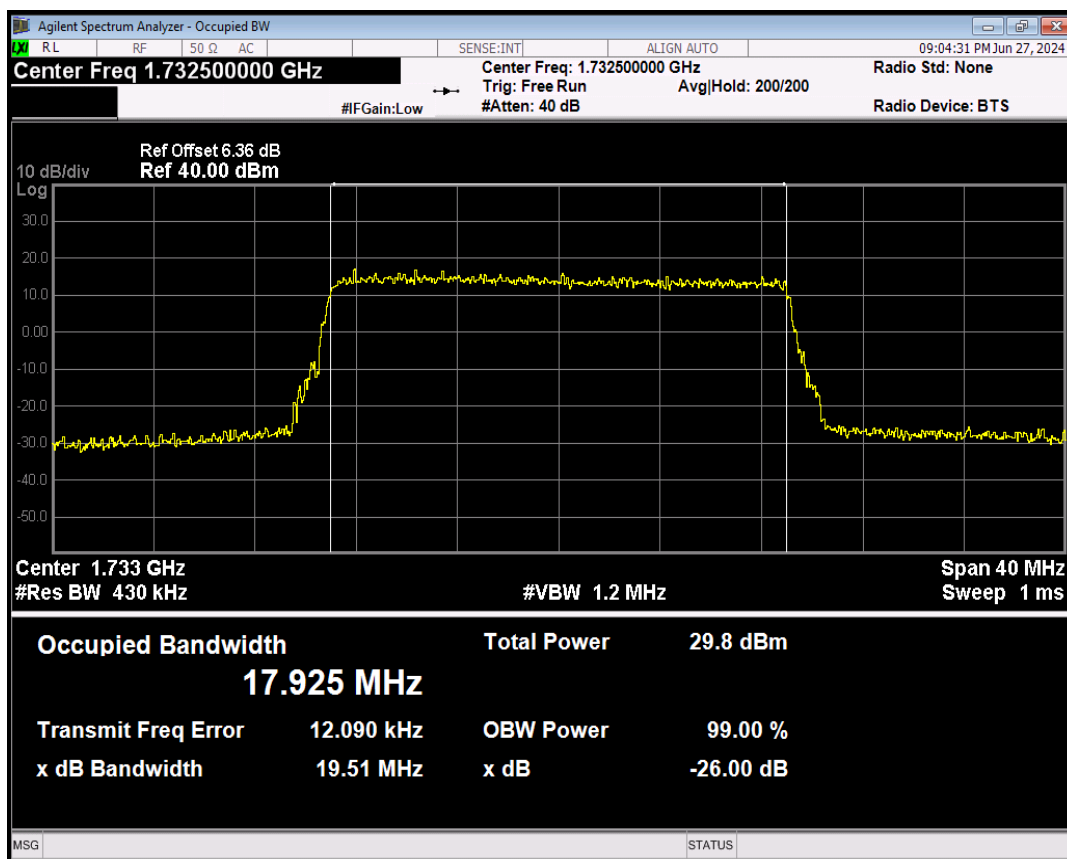


Band4 16QAM BW=20MHz Channel=20050 RB Size=100 Position=#0

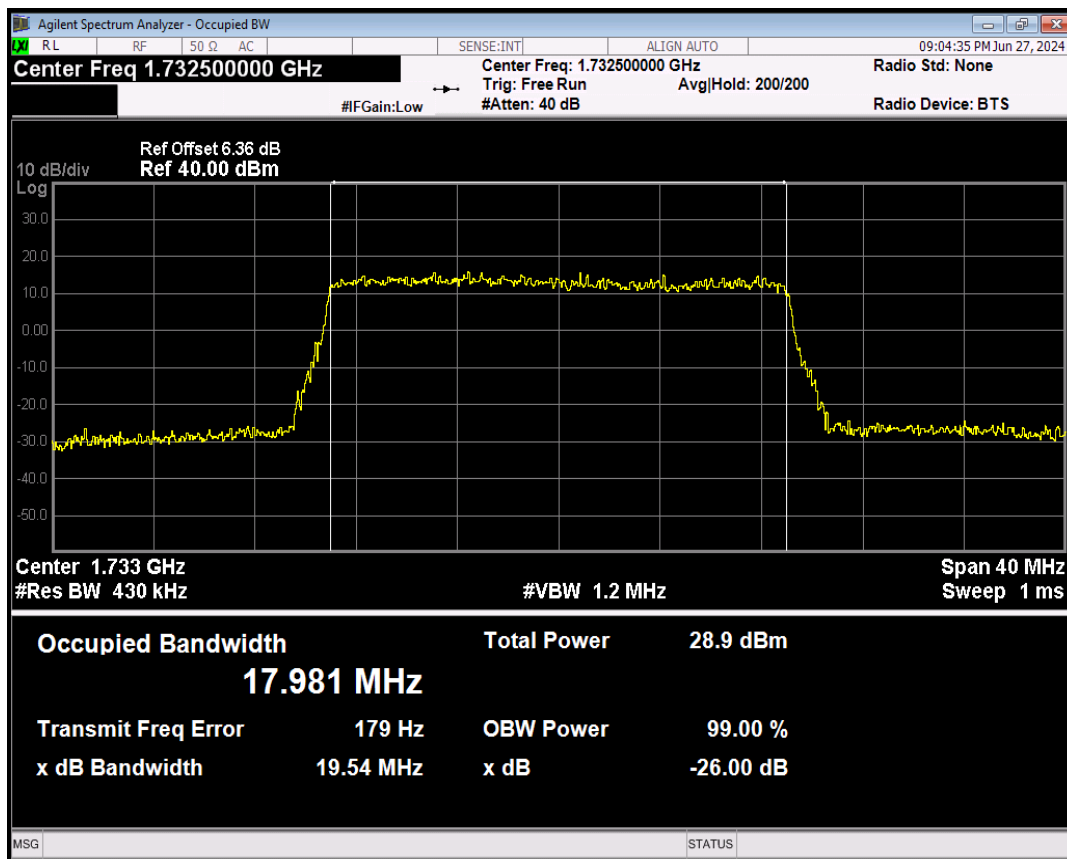




Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0

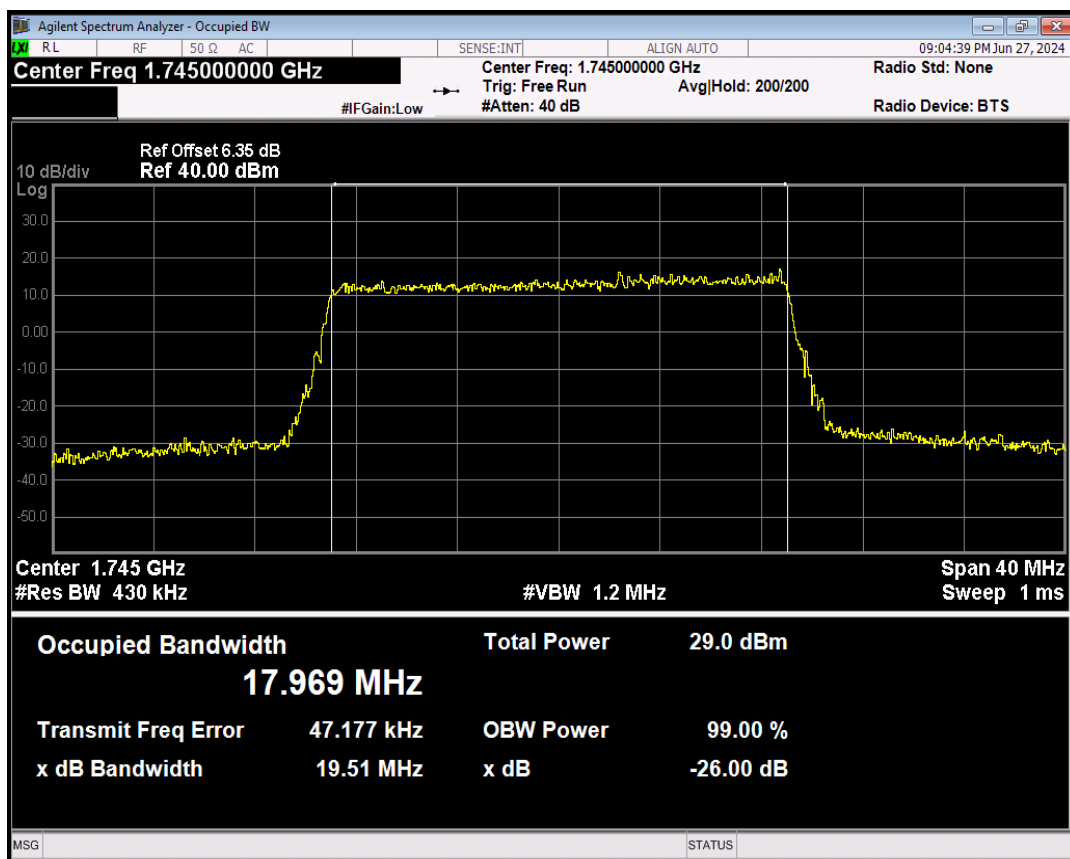


Band4 16QAM BW=20MHz Channel=20175 RB Size=100 Position=#0

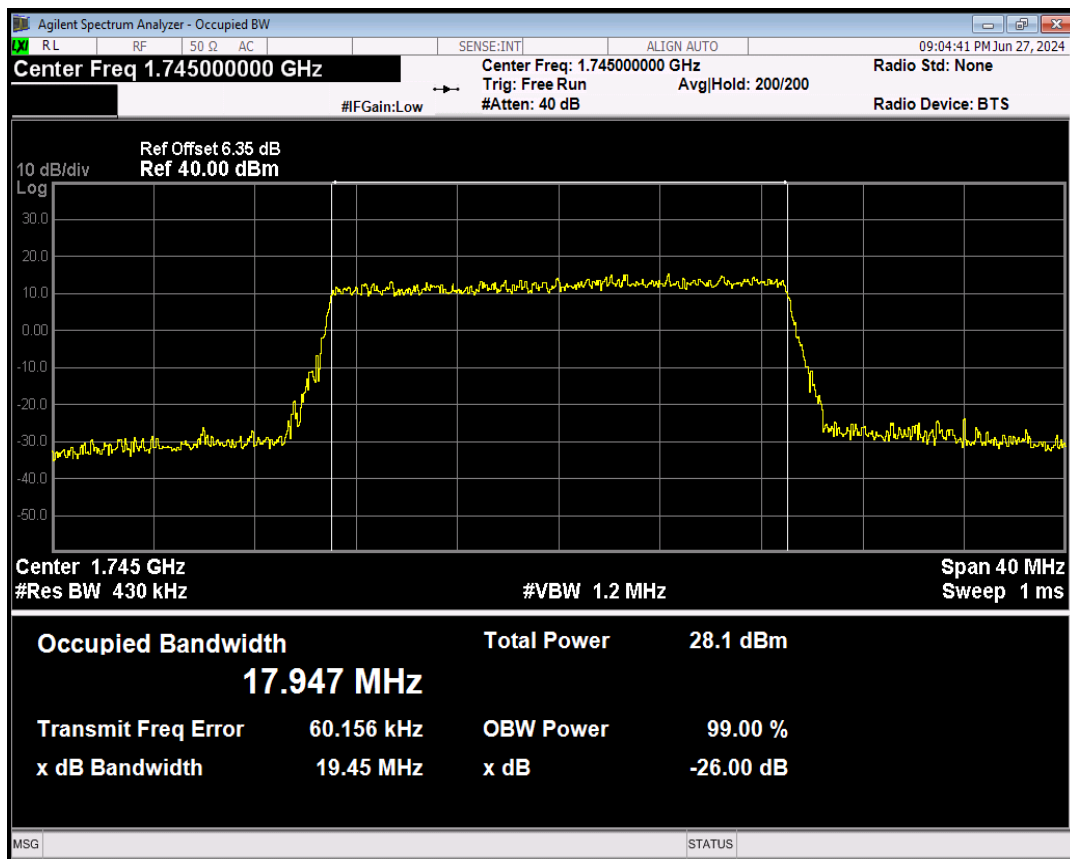




Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



Band4 16QAM BW=20MHz Channel=20300 RB Size=100 Position=#0

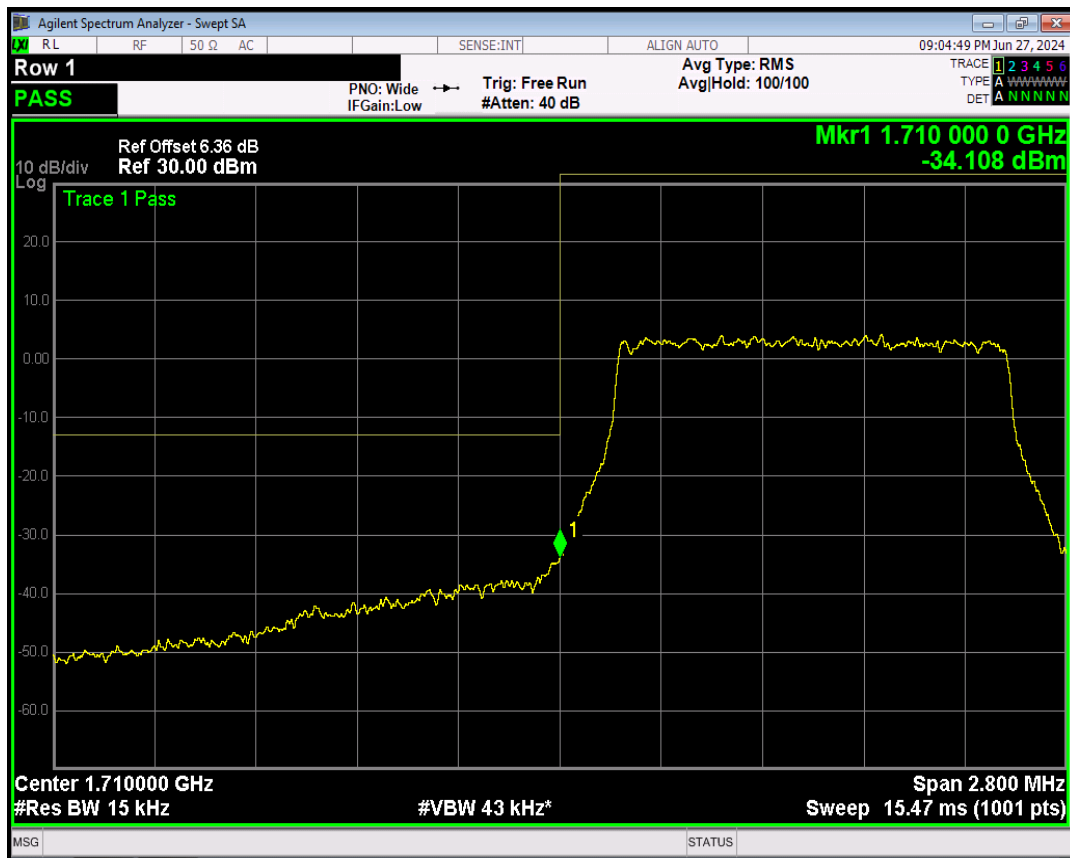


Appendix 5. Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	1710.00	-34.10	-13	PASS
Band4	1.4	19957	6	#0	16QAM	1710.00	-34.10	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1755.00	-33.05	-13	PASS
Band4	1.4	20393	6	#0	16QAM	1755.00	-34.65	-13	PASS
Band4	3	19965	15	#0	QPSK	1710.00	-35.61	-13	PASS
Band4	3	19965	15	#0	16QAM	1710.00	-35.37	-13	PASS
Band4	3	20385	15	#0	QPSK	1755.00	-35.13	-13	PASS
Band4	3	20385	15	#0	16QAM	1755.00	-37.85	-13	PASS
Band4	5	19975	25	#0	QPSK	1710.00	-26.89	-13	PASS
Band4	5	19975	25	#0	16QAM	1709.98	-27.30	-13	PASS
Band4	5	20375	25	#0	QPSK	1755.03	-27.98	-13	PASS
Band4	5	20375	25	#0	16QAM	1755.00	-27.49	-13	PASS
Band4	10	20000	50	#0	QPSK	1710.00	-29.38	-13	PASS
Band4	10	20000	50	#0	16QAM	1710.00	-32.17	-13	PASS
Band4	10	20350	50	#0	QPSK	1755.02	-29.83	-13	PASS
Band4	10	20350	50	#0	16QAM	1755.00	-33.99	-13	PASS
Band4	15	20025	75	#0	QPSK	1710.00	-33.55	-13	PASS
Band4	15	20025	75	#0	16QAM	1710.00	-35.66	-13	PASS
Band4	15	20325	75	#0	QPSK	1755.00	-34.09	-13	PASS
Band4	15	20325	75	#0	16QAM	1755.00	-35.66	-13	PASS
Band4	20	20050	100	#0	QPSK	1710.00	-34.97	-13	PASS
Band4	20	20050	100	#0	16QAM	1709.96	-34.48	-13	PASS
Band4	20	20300	100	#0	QPSK	1755.08	-32.39	-13	PASS
Band4	20	20300	100	#0	16QAM	1755.00	-36.01	-13	PASS



Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0





Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

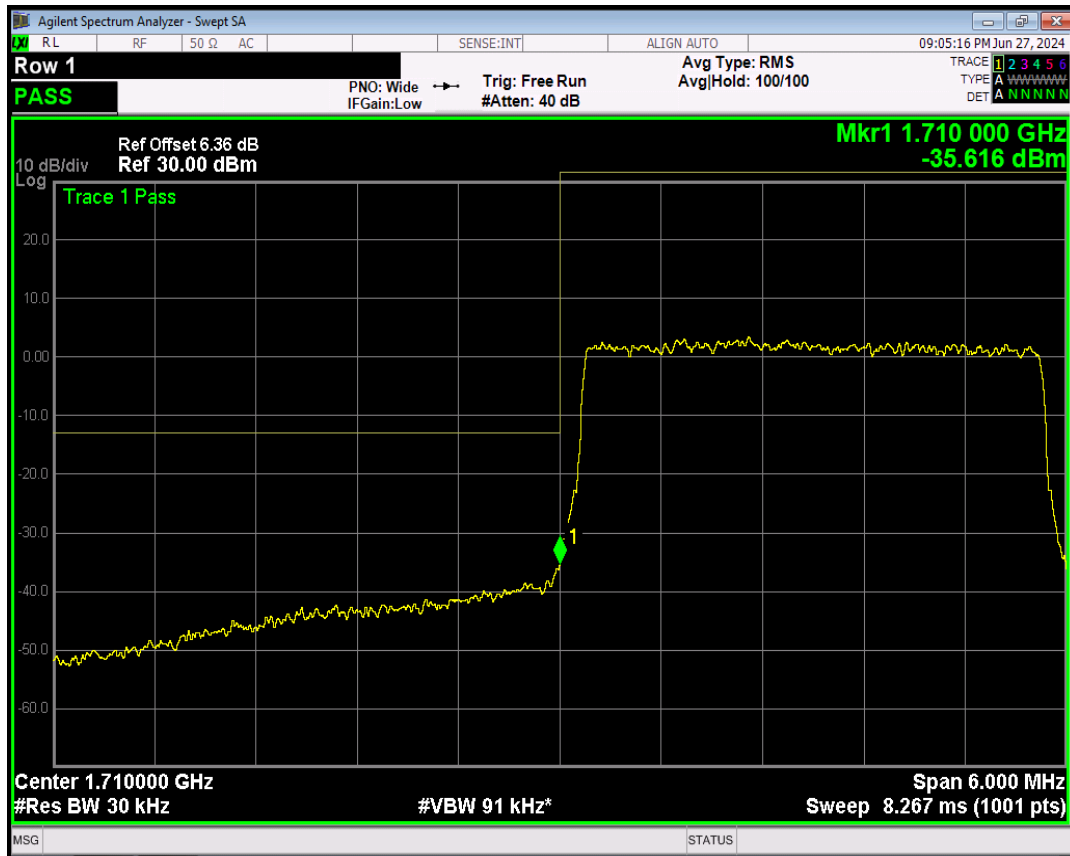


Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0

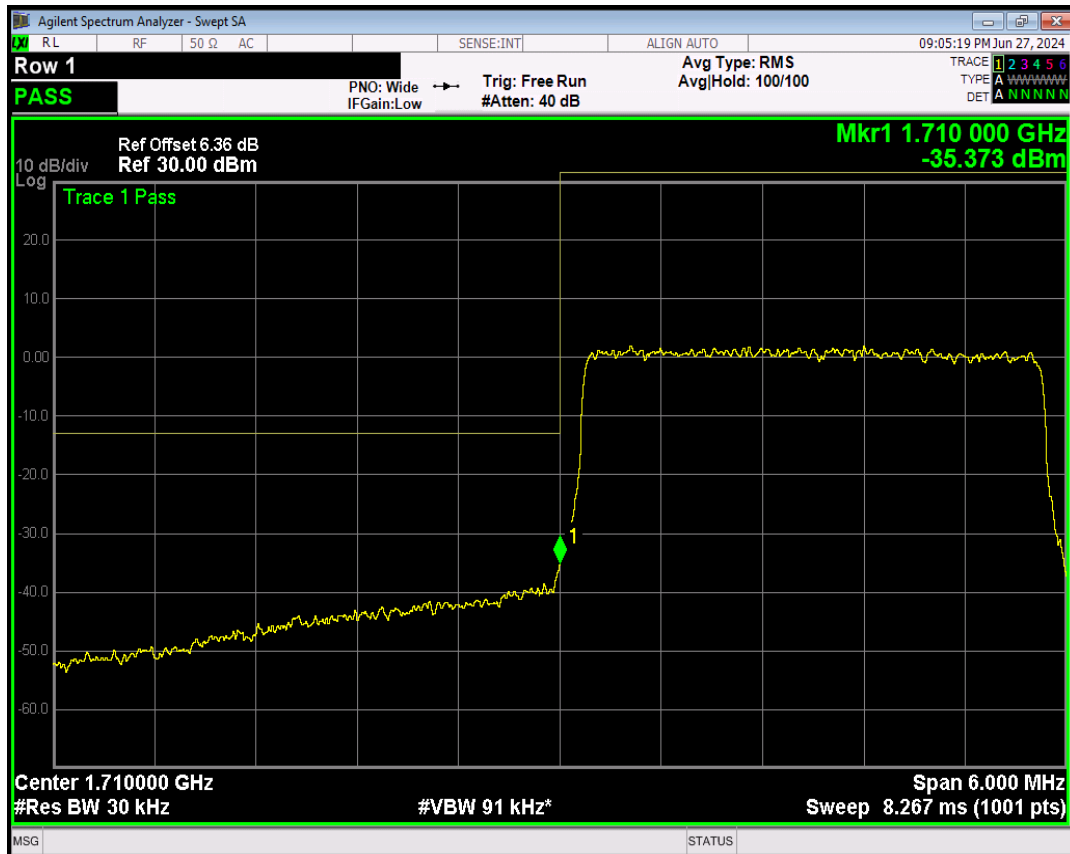




Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0

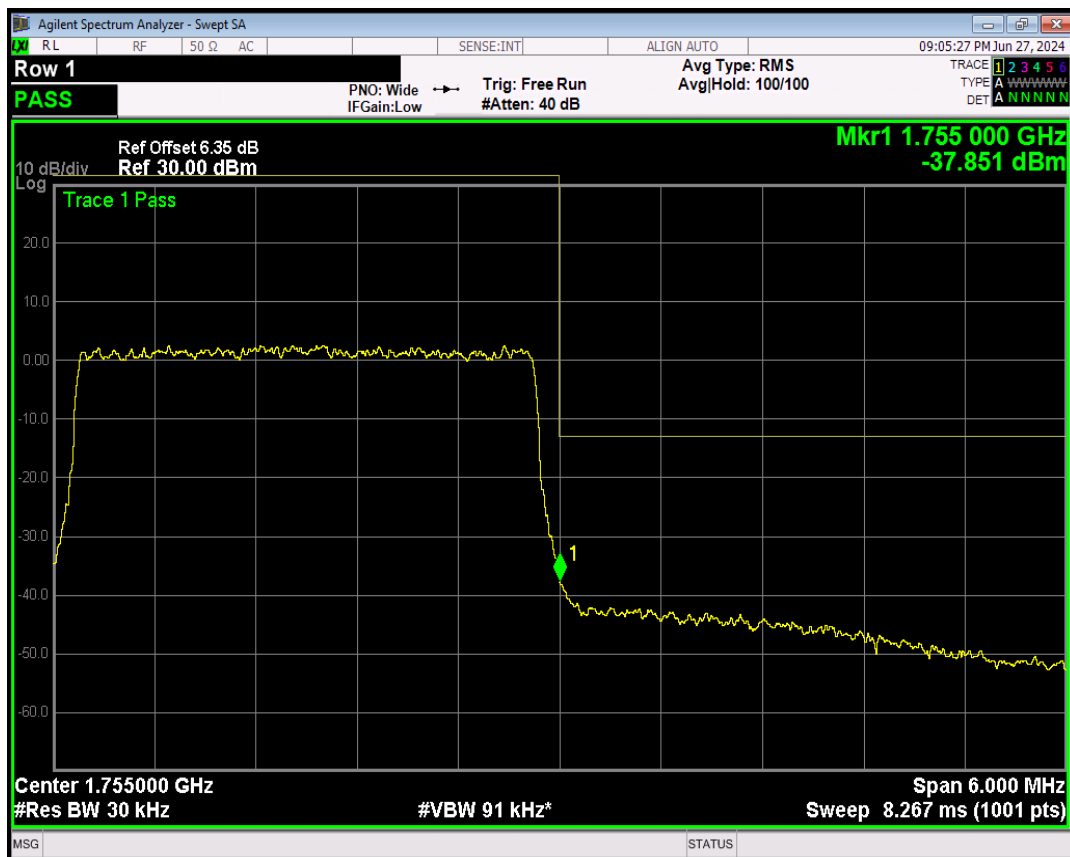




Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

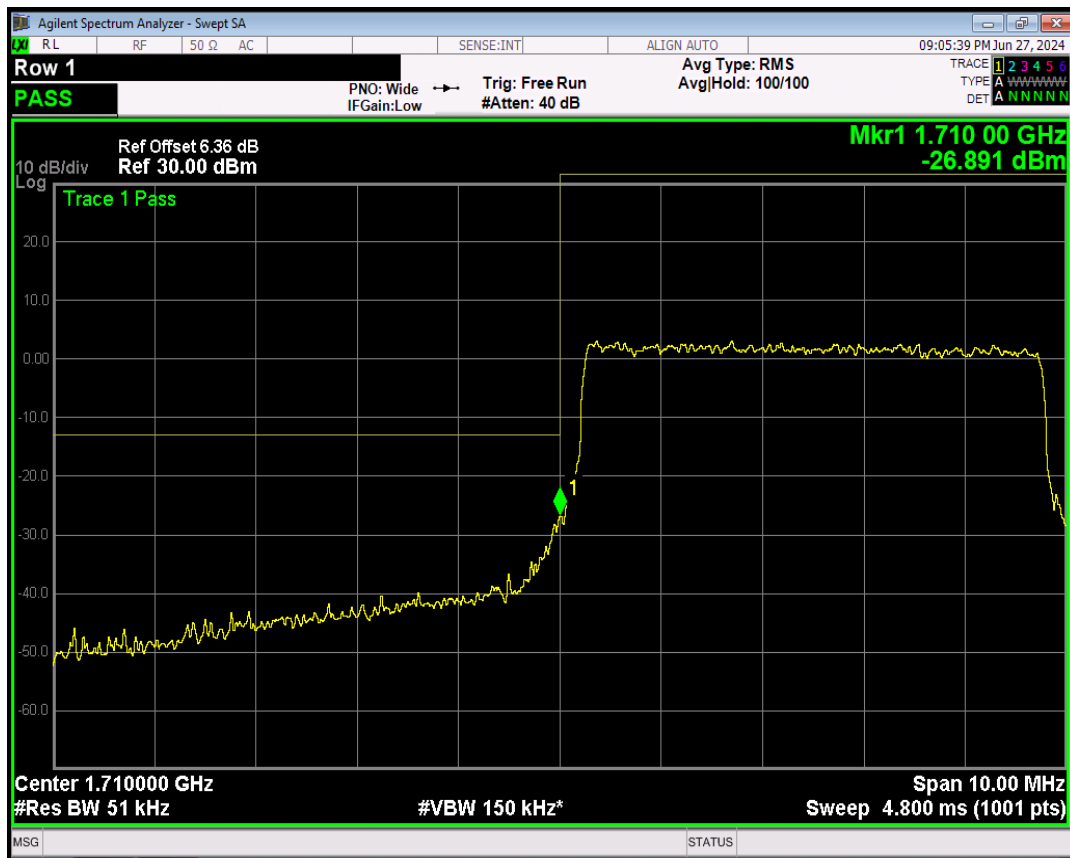


Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0

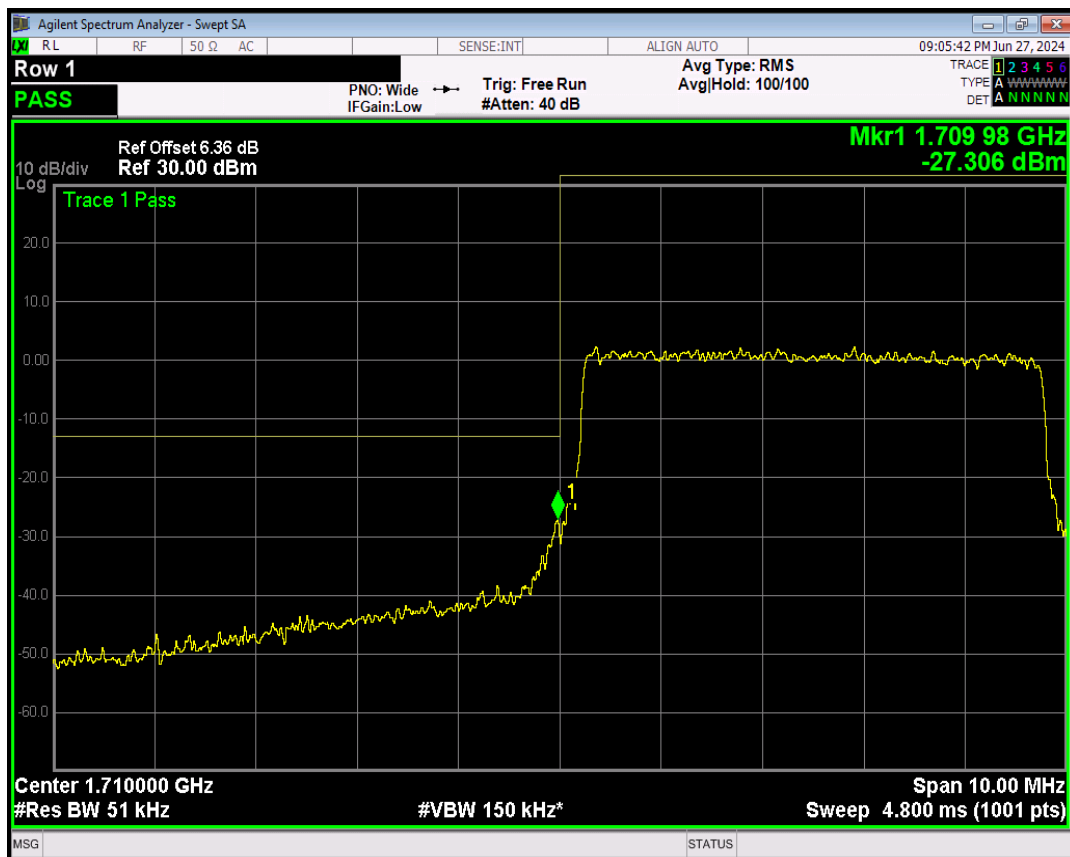




Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0

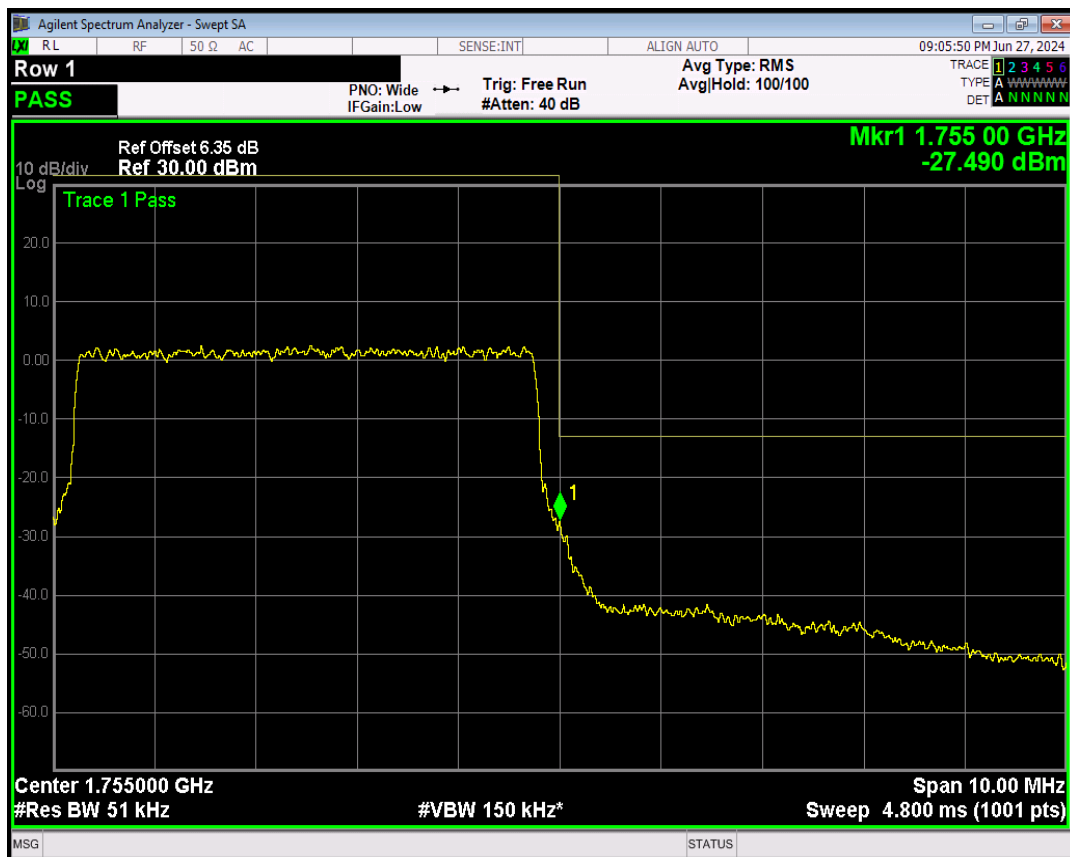




Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

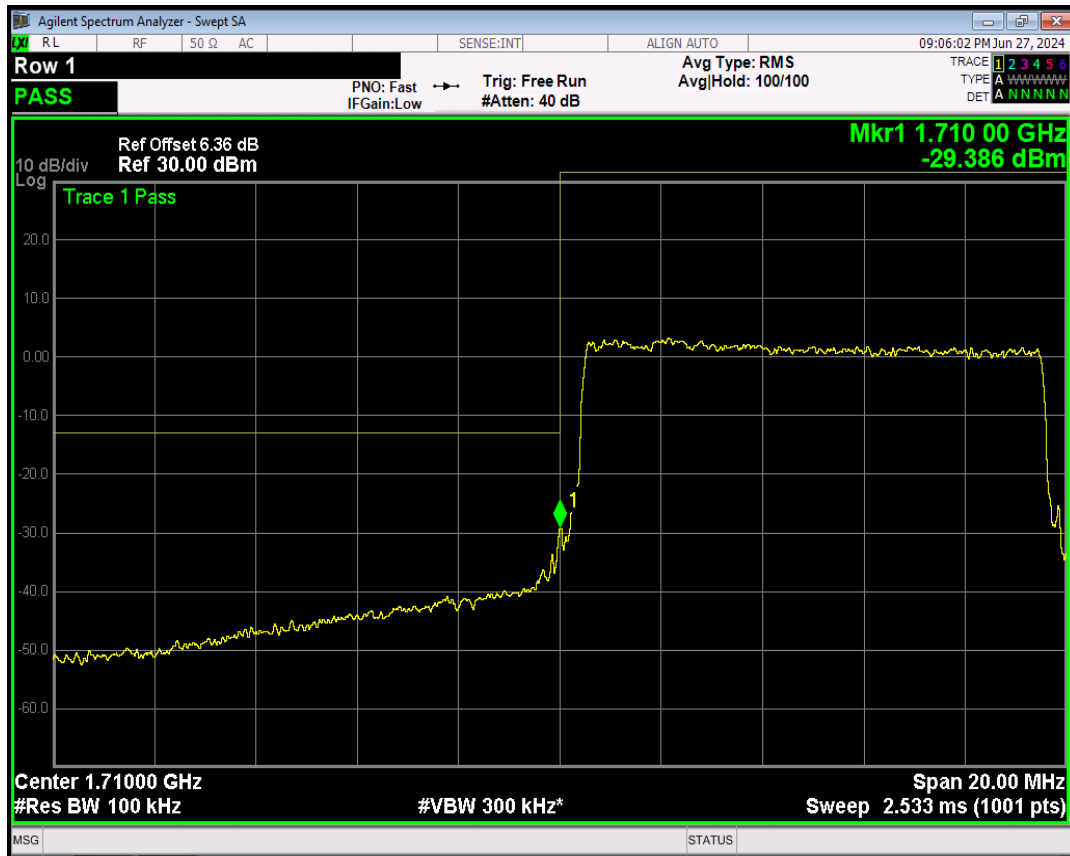


Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0

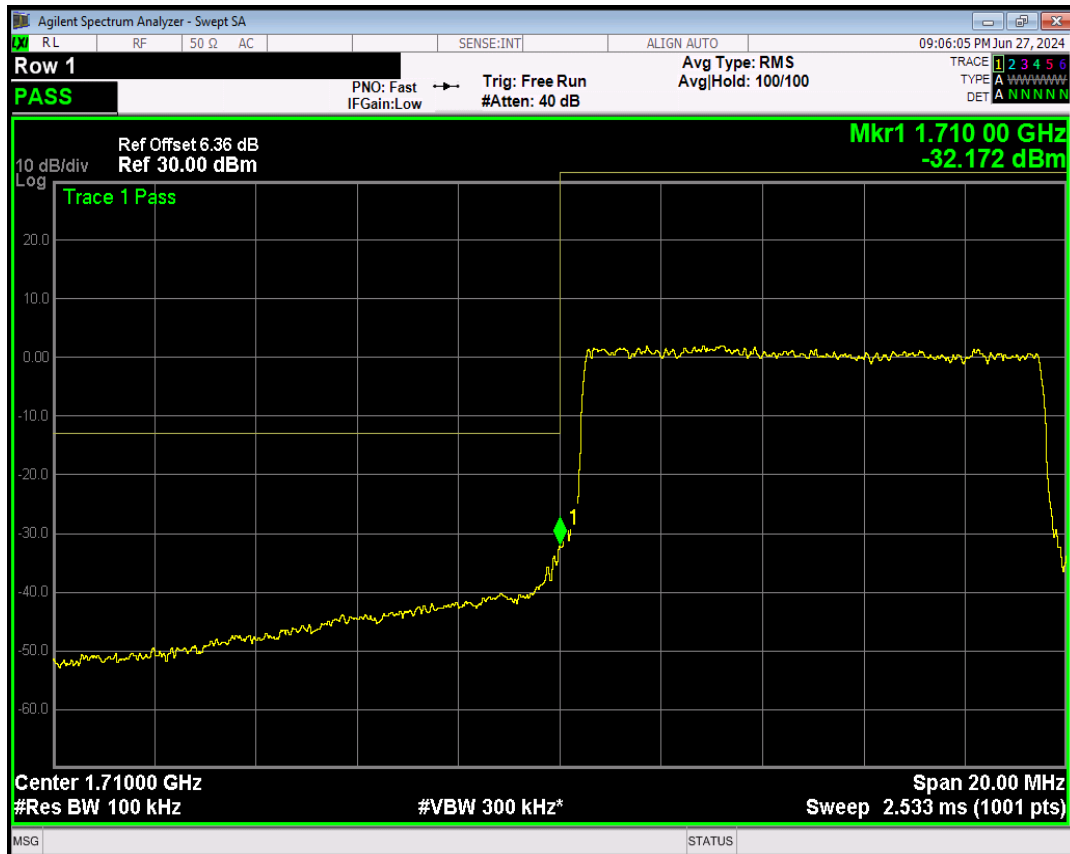




Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



Band4 16QAM BW=10MHz Channel=20000 RB Size=50 Position=#0





Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

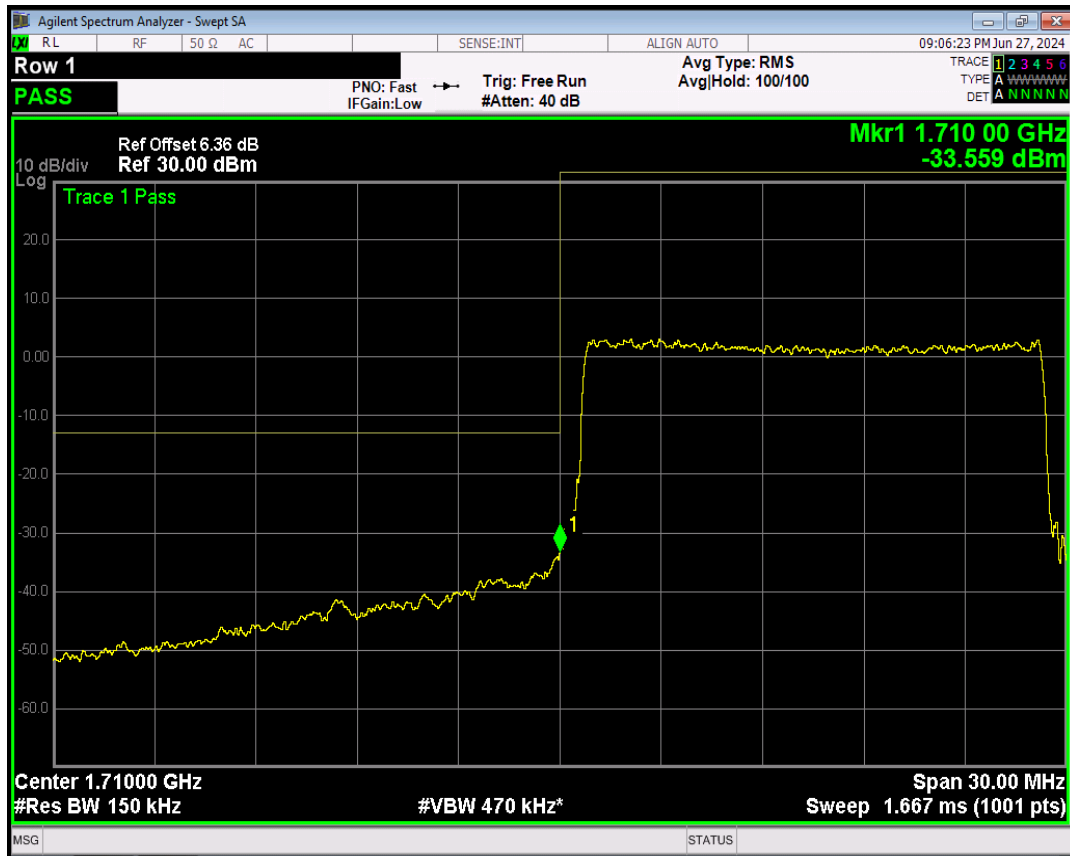


Band4 16QAM BW=10MHz Channel=20350 RB Size=50 Position=#0

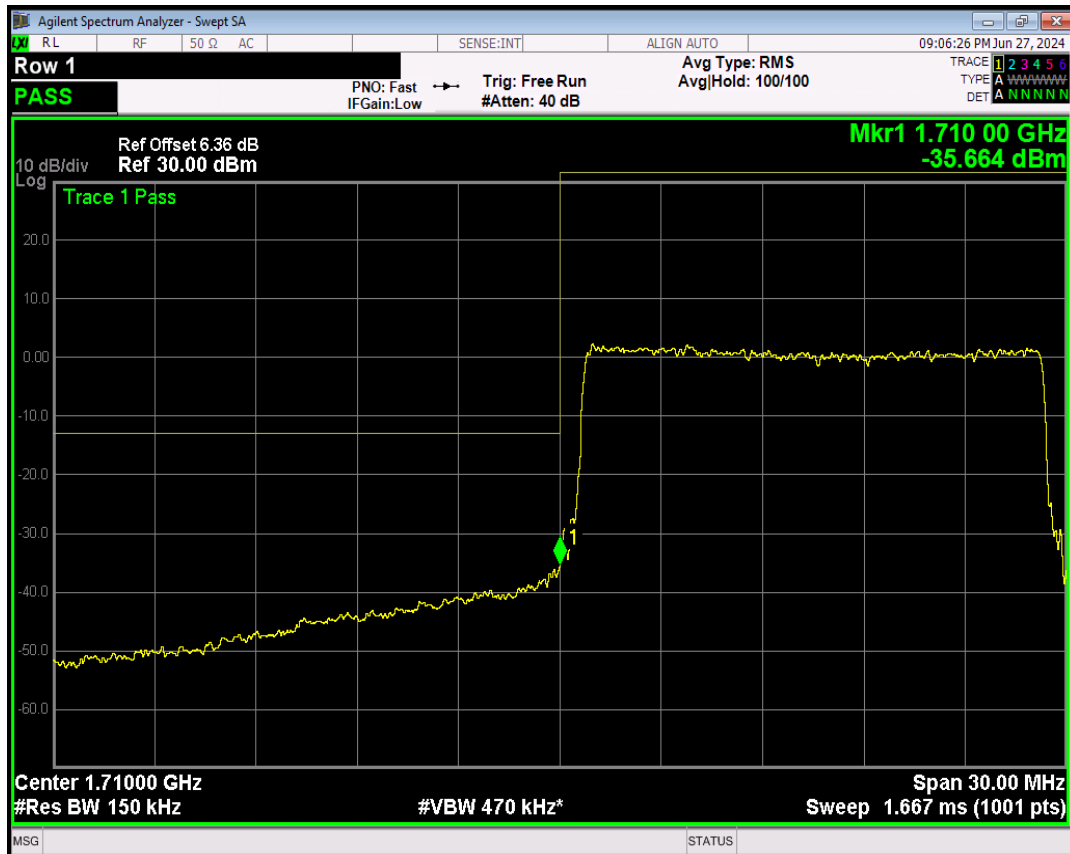




Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



Band4 16QAM BW=15MHz Channel=20025 RB Size=75 Position=#0





Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0

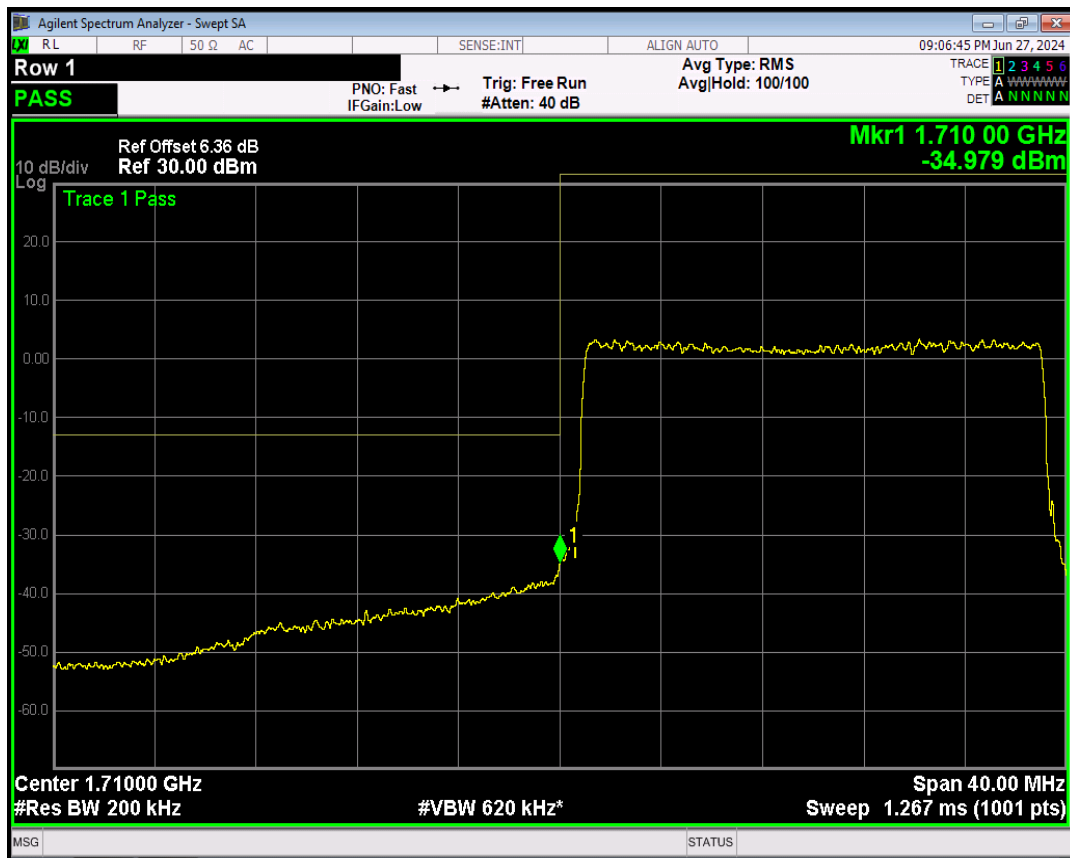


Band4 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0

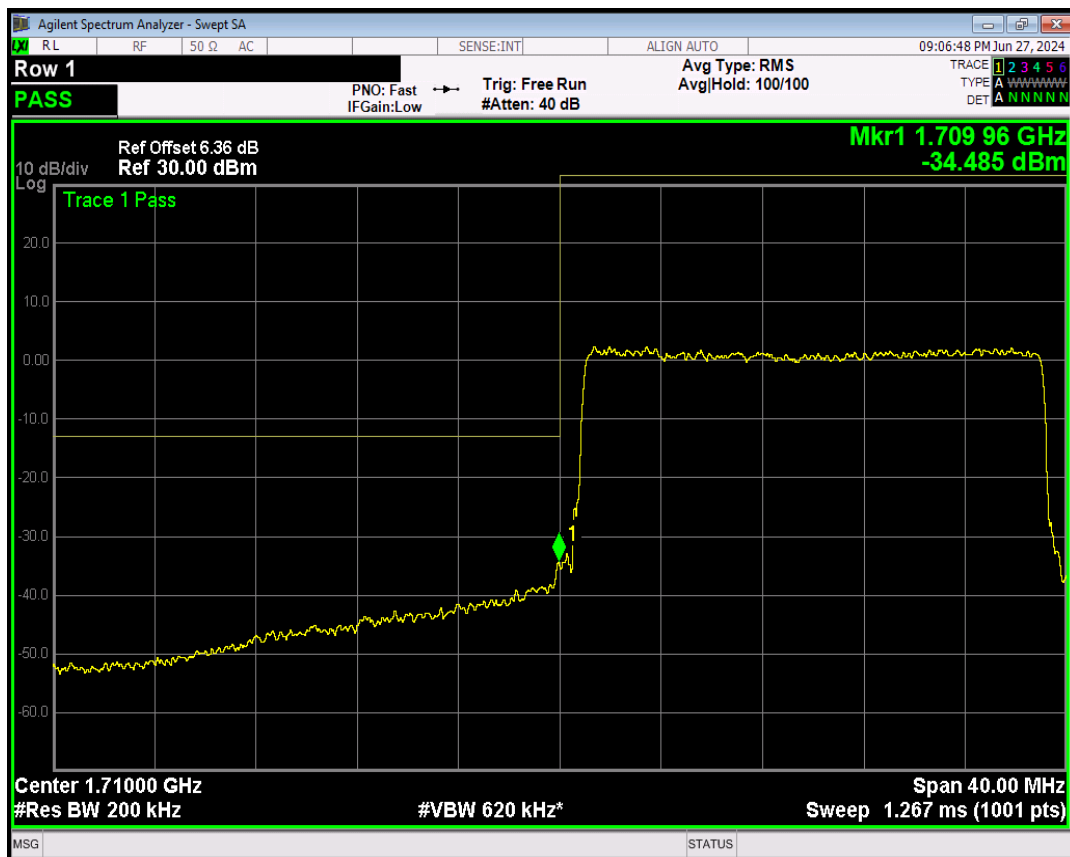




Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



Band4 16QAM BW=20MHz Channel=20050 RB Size=100 Position=#0

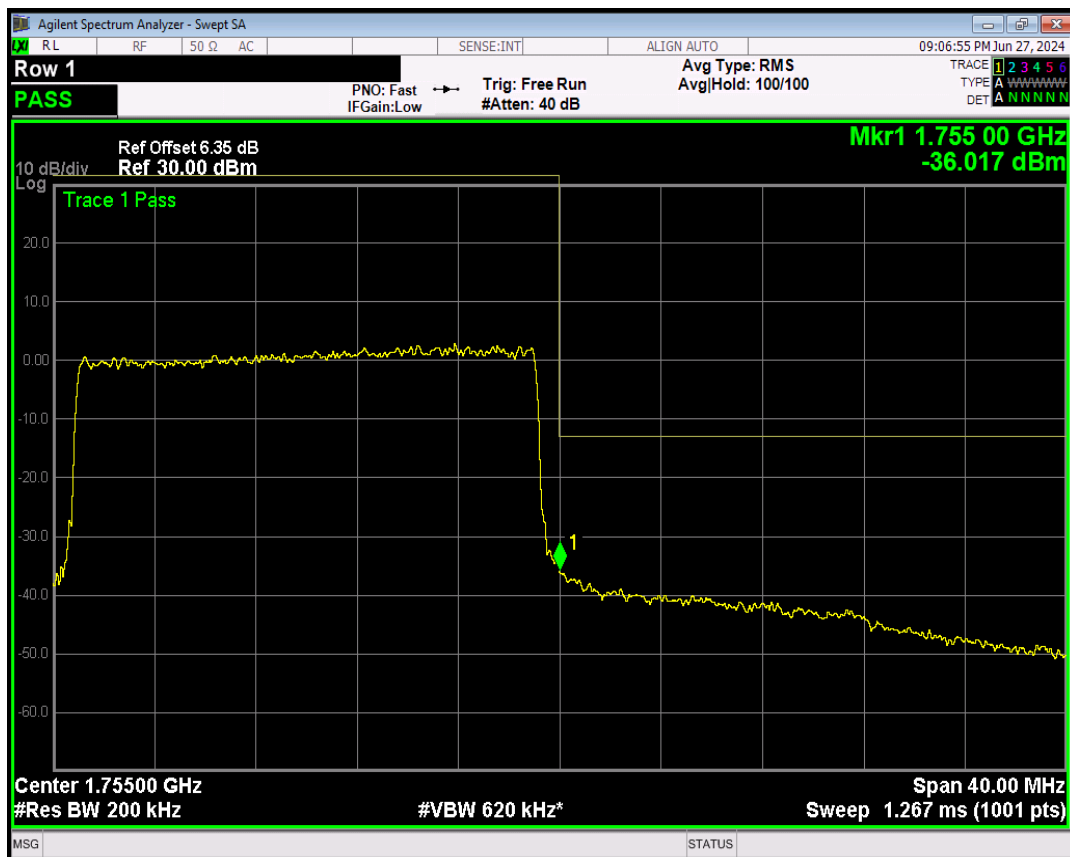




Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



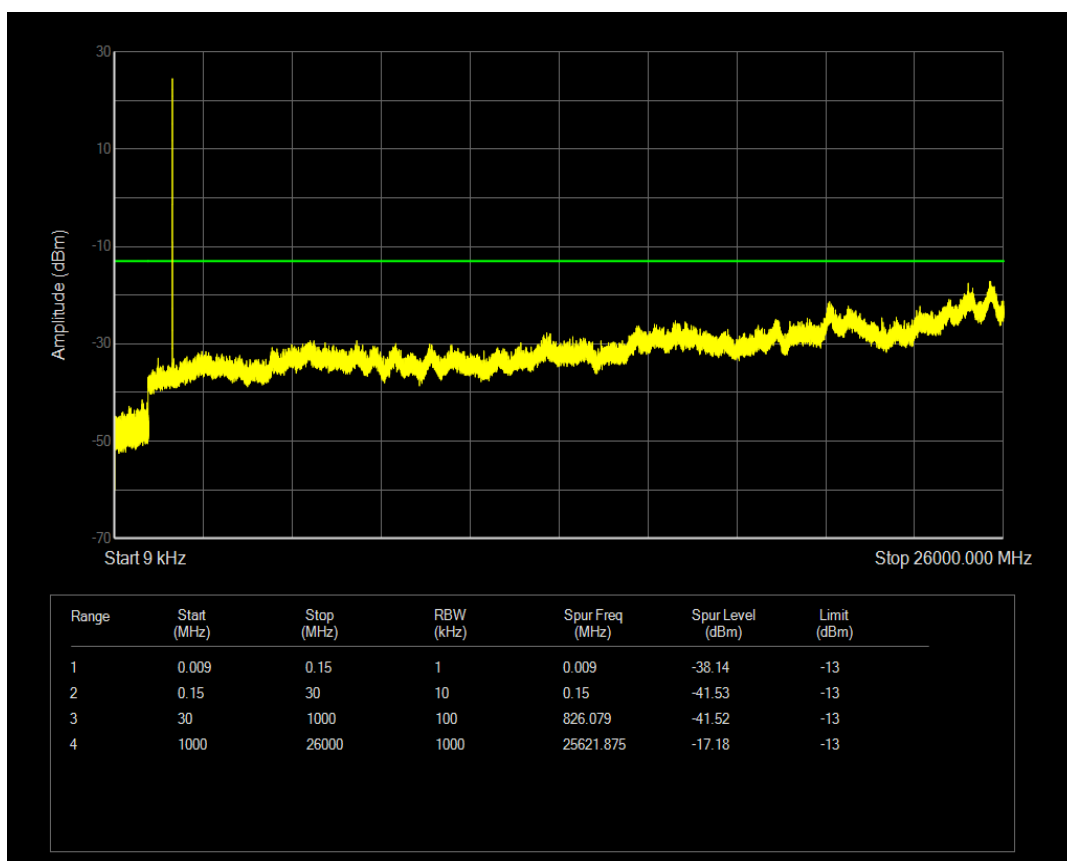
Band4 16QAM BW=20MHz Channel=20300 RB Size=100 Position=#0



Appendix 6. Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	25621.88	-17.18	-13	PASS
Band4	1.4	19957	6	#0	16QAM	25671.25	-17.04	-13	PASS
Band4	1.4	20175	6	#0	QPSK	25667.50	-17.39	-13	PASS
Band4	1.4	20175	6	#0	16QAM	25665.00	-18.08	-13	PASS
Band4	1.4	20393	6	#0	QPSK	25613.13	-17.00	-13	PASS
Band4	1.4	20393	6	#0	16QAM	25581.88	-17.25	-13	PASS
Band4	3	19965	15	#0	QPSK	25541.25	-17.66	-13	PASS
Band4	3	19965	15	#0	16QAM	25637.50	-17.17	-13	PASS
Band4	3	20175	15	#0	QPSK	25650.00	-15.82	-13	PASS
Band4	3	20175	15	#0	16QAM	25642.50	-16.61	-13	PASS
Band4	3	20385	15	#0	QPSK	25653.75	-16.61	-13	PASS
Band4	3	20385	15	#0	16QAM	25661.25	-16.69	-13	PASS
Band4	5	19975	25	#0	QPSK	25675.00	-17.11	-13	PASS
Band4	5	19975	25	#0	16QAM	25560.63	-17.10	-13	PASS
Band4	5	20175	25	#0	QPSK	25689.38	-17.53	-13	PASS
Band4	5	20175	25	#0	16QAM	25686.88	-15.45	-13	PASS
Band4	5	20375	25	#0	QPSK	25663.13	-16.87	-13	PASS
Band4	5	20375	25	#0	16QAM	25603.75	-18.07	-13	PASS
Band4	10	20000	50	#0	QPSK	25615.00	-16.80	-13	PASS
Band4	10	20000	50	#0	16QAM	25625.63	-17.21	-13	PASS
Band4	10	20175	50	#0	QPSK	25620.63	-16.88	-13	PASS
Band4	10	20175	50	#0	16QAM	25635.63	-17.97	-13	PASS
Band4	10	20350	50	#0	QPSK	25688.75	-17.21	-13	PASS
Band4	10	20350	50	#0	16QAM	25604.38	-16.89	-13	PASS
Band4	15	20025	75	#0	QPSK	25640.63	-17.48	-13	PASS
Band4	15	20025	75	#0	16QAM	25638.13	-17.35	-13	PASS
Band4	15	20175	75	#0	QPSK	25651.25	-17.26	-13	PASS
Band4	15	20175	75	#0	16QAM	25669.38	-17.54	-13	PASS
Band4	15	20325	75	#0	QPSK	25628.75	-17.27	-13	PASS
Band4	15	20325	75	#0	16QAM	25598.13	-17.78	-13	PASS
Band4	20	20050	100	#0	QPSK	25652.50	-17.52	-13	PASS
Band4	20	20050	100	#0	16QAM	25621.88	-17.12	-13	PASS
Band4	20	20175	100	#0	QPSK	25678.13	-16.77	-13	PASS
Band4	20	20175	100	#0	16QAM	25033.13	-16.88	-13	PASS
Band4	20	20300	100	#0	QPSK	25666.25	-16.24	-13	PASS
Band4	20	20300	100	#0	16QAM	25629.38	-16.39	-13	PASS

Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0

