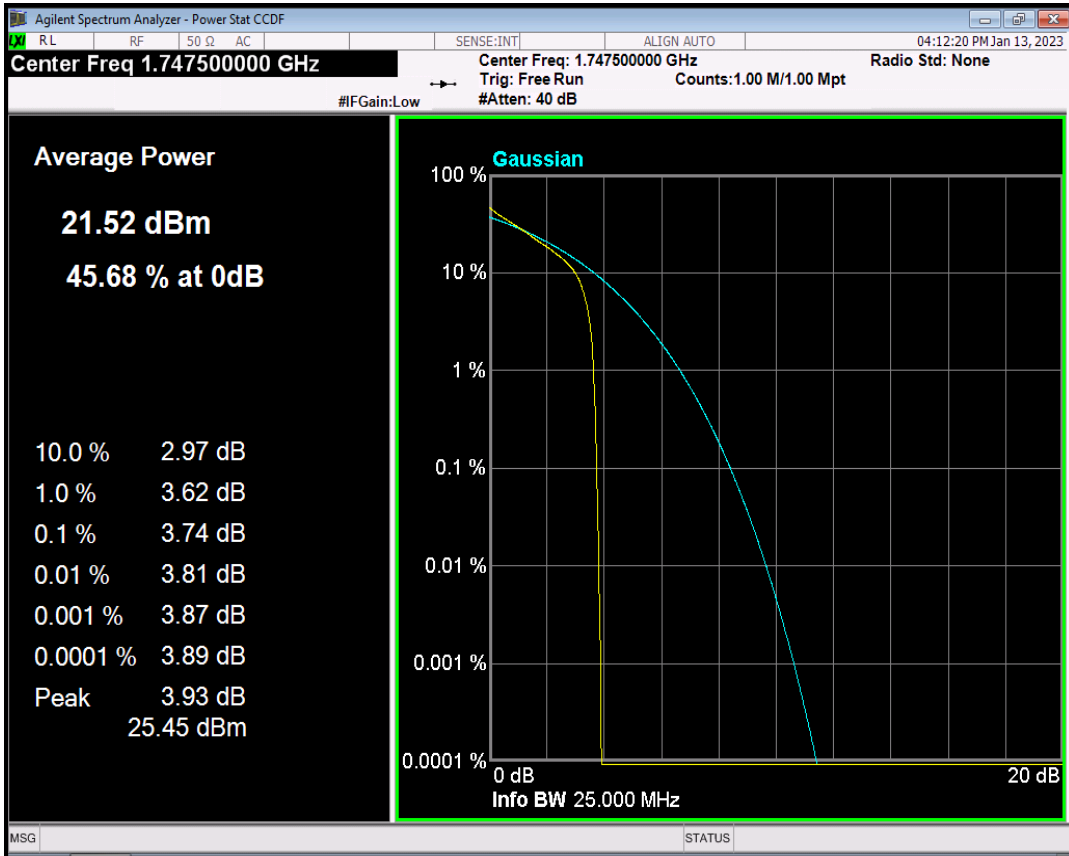
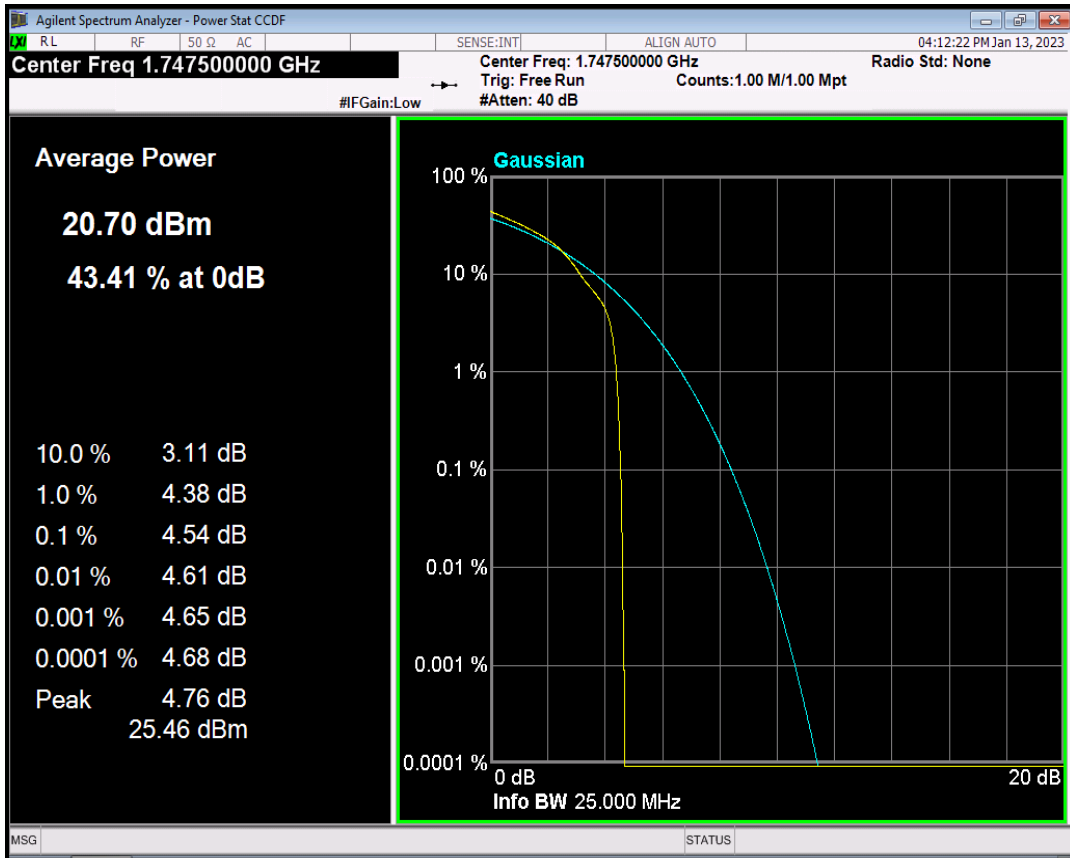


Band4 QPSK BW=15MHz Channel=20325 RB Size=1 Position=#0

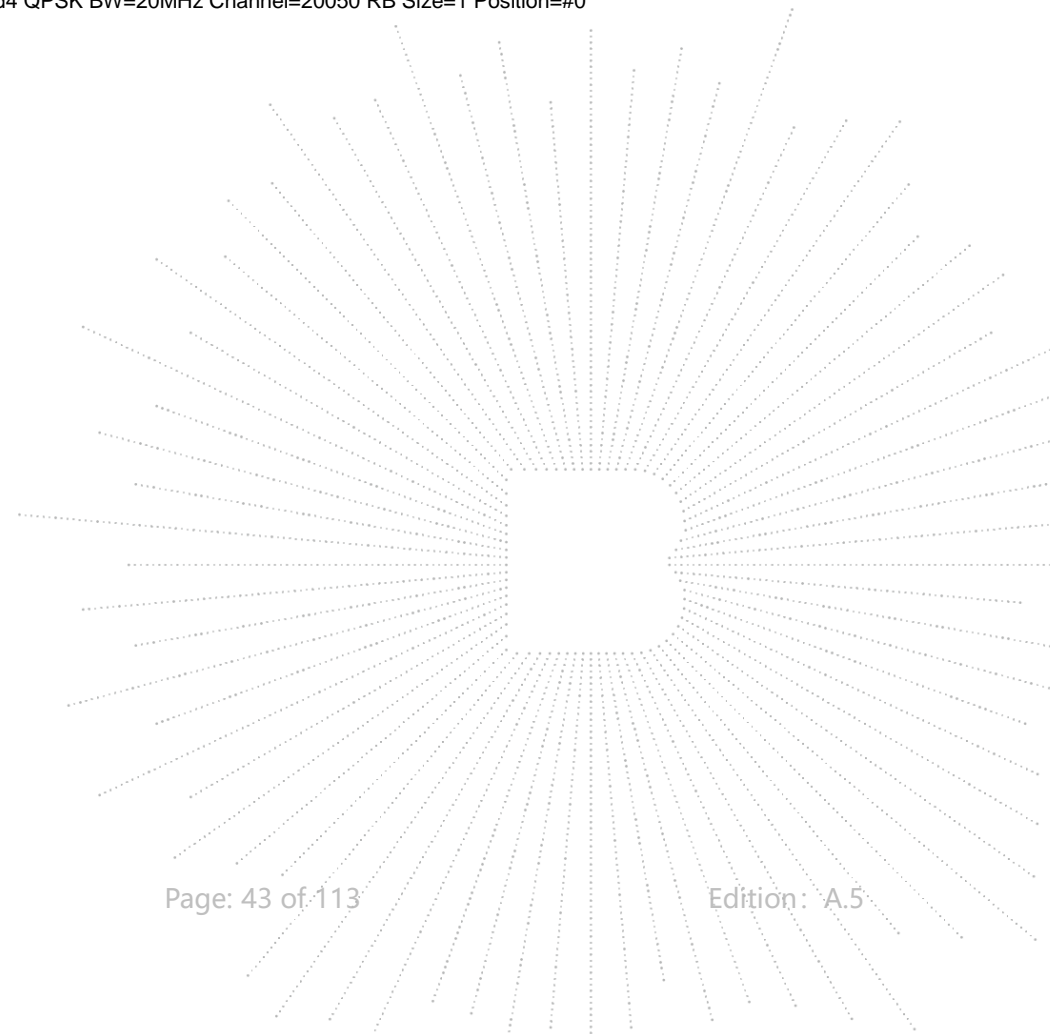


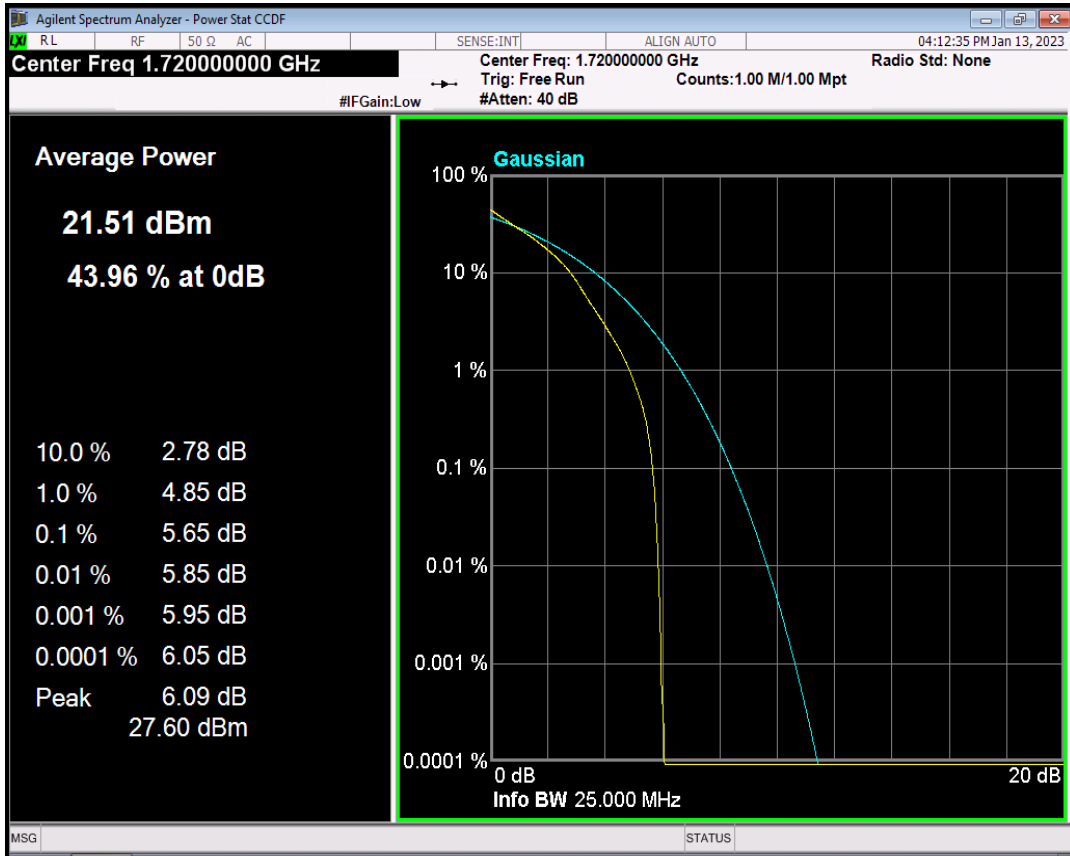


Band4 QAM16 BW=15MHz Channel=20325 RB Size=1 Position=#0

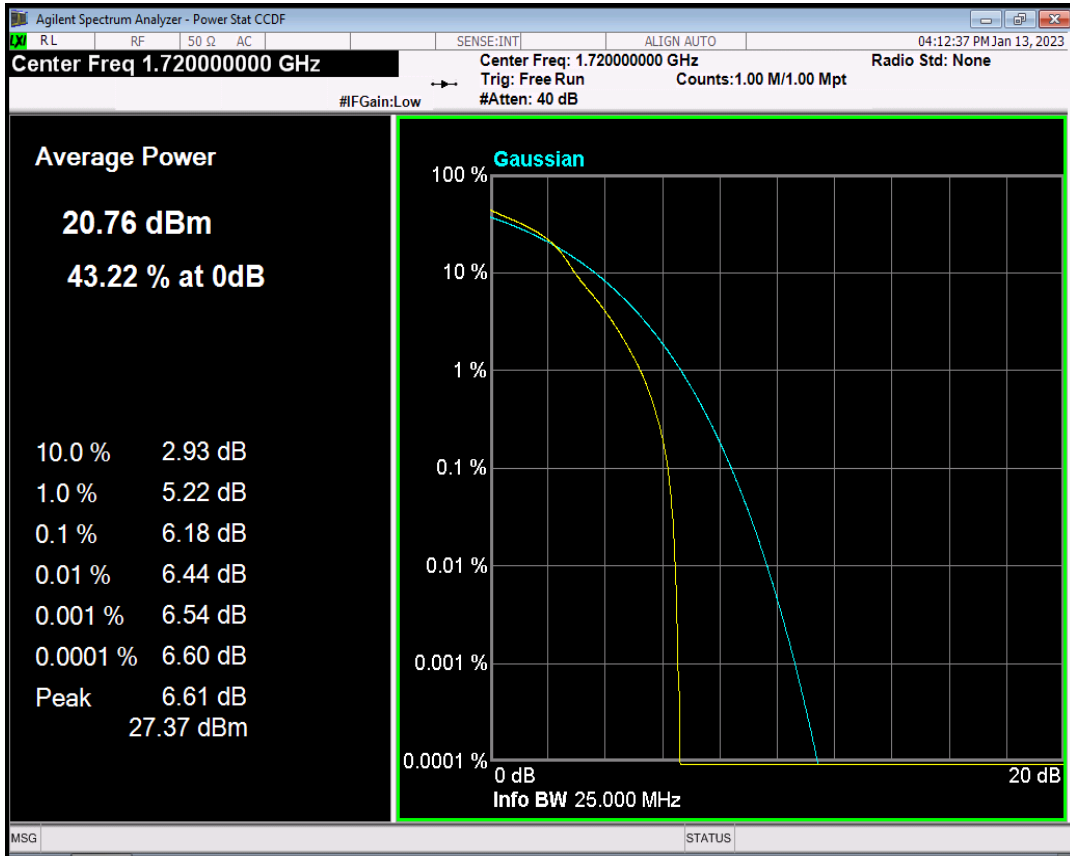


Band4 QPSK BW=20MHz Channel=20050 RB Size=1 Position=#0

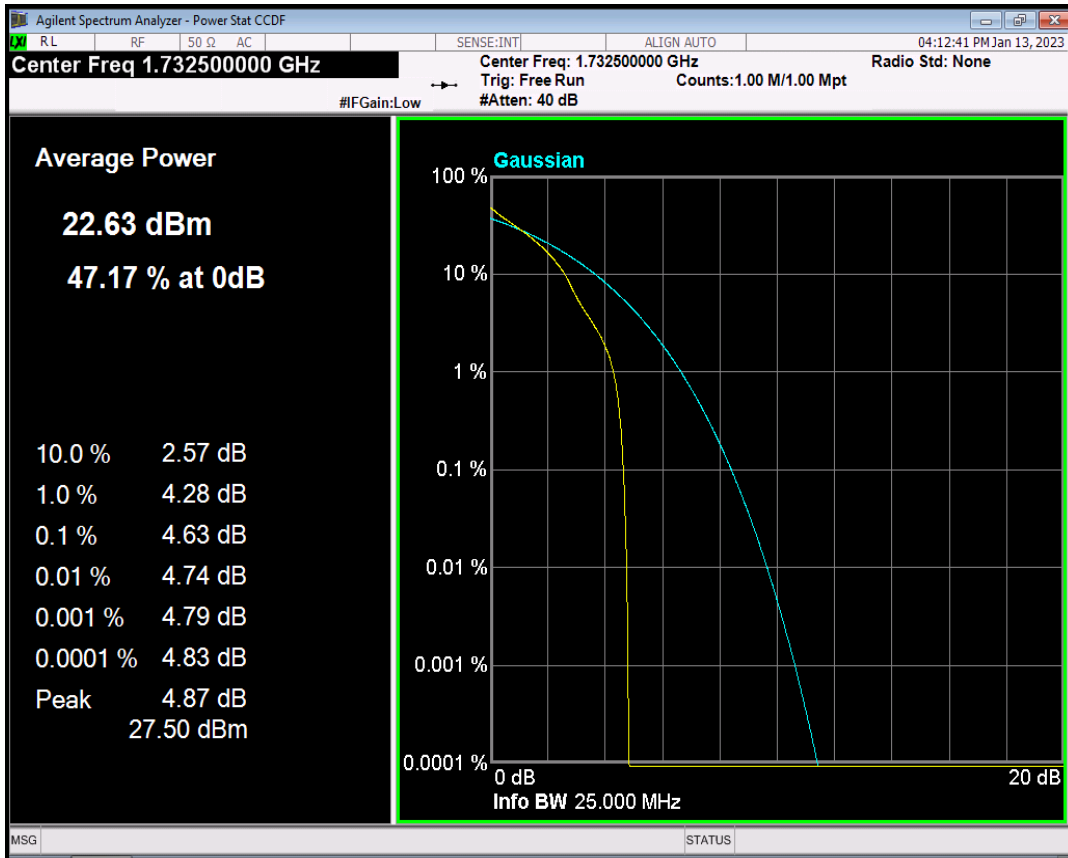




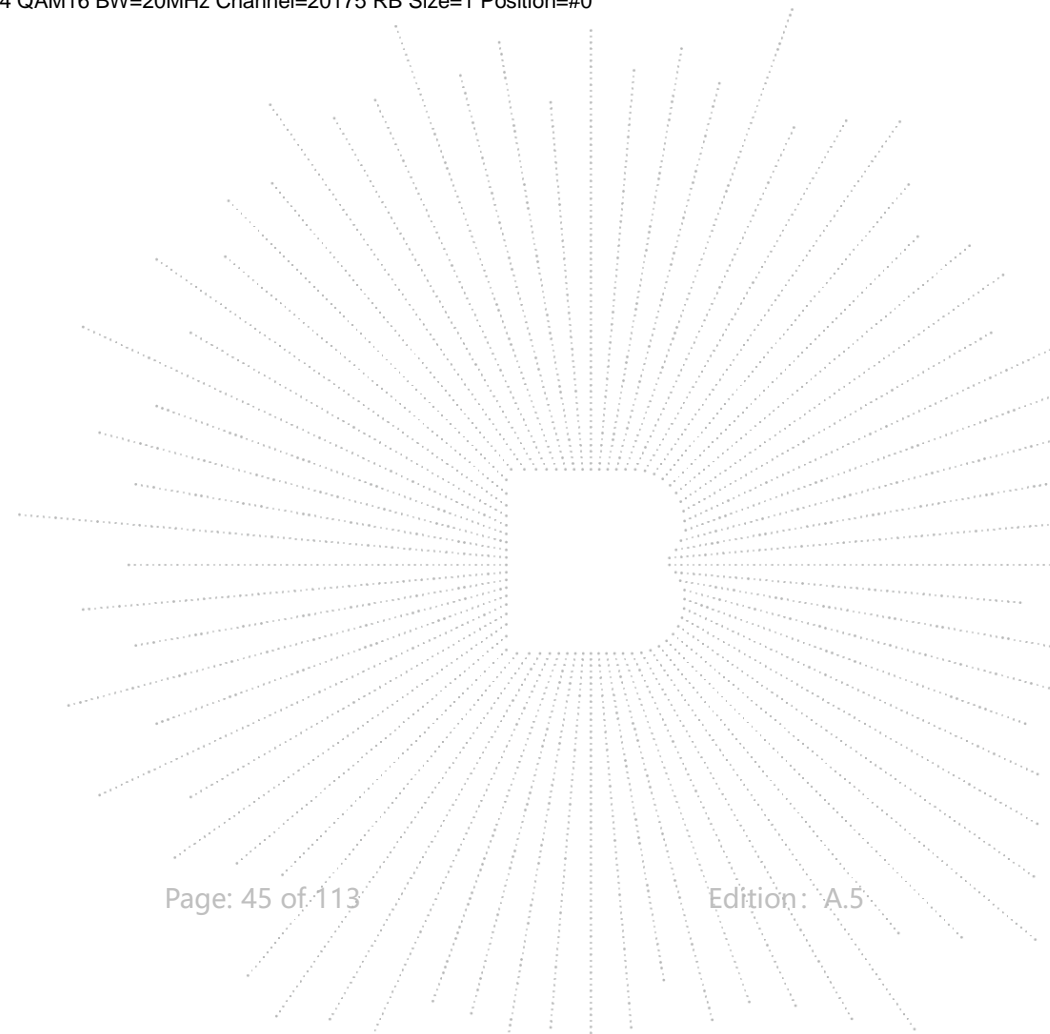
Band4 QAM16 BW=20MHz Channel=20050 RB Size=1 Position=#0

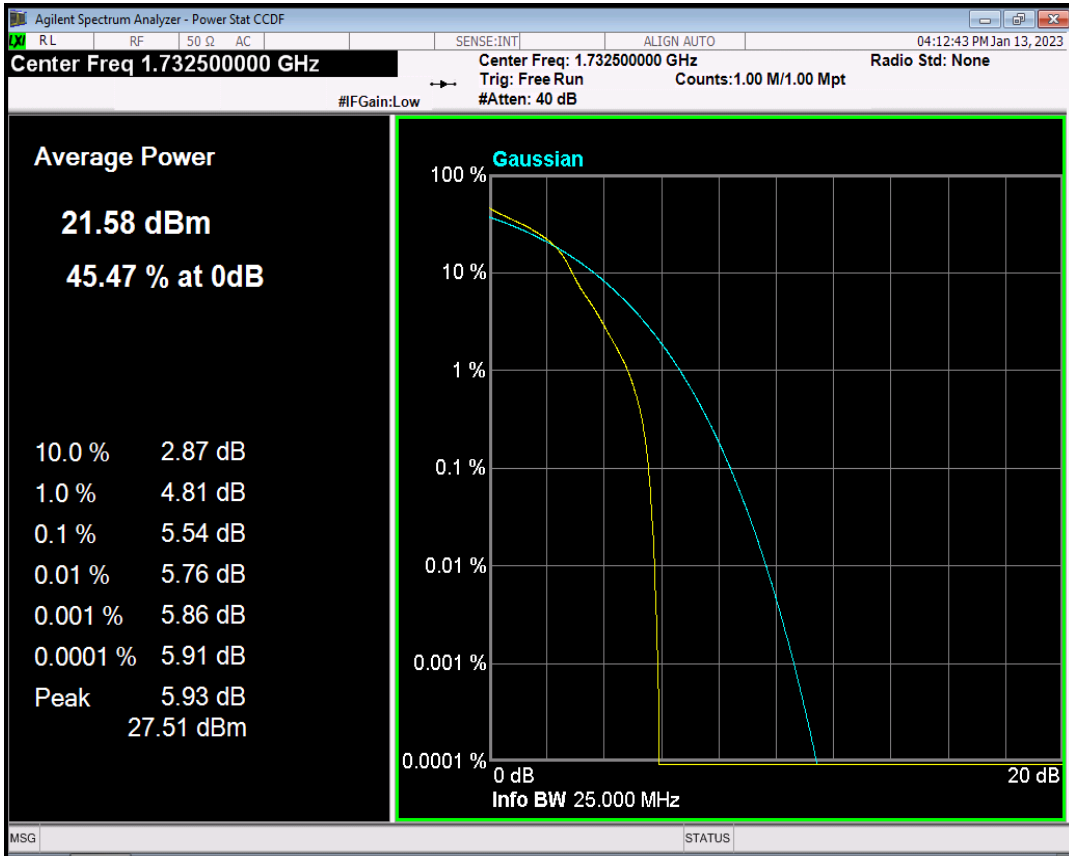


Band4 QPSK BW=20MHz Channel=20175 RB Size=1 Position=#0

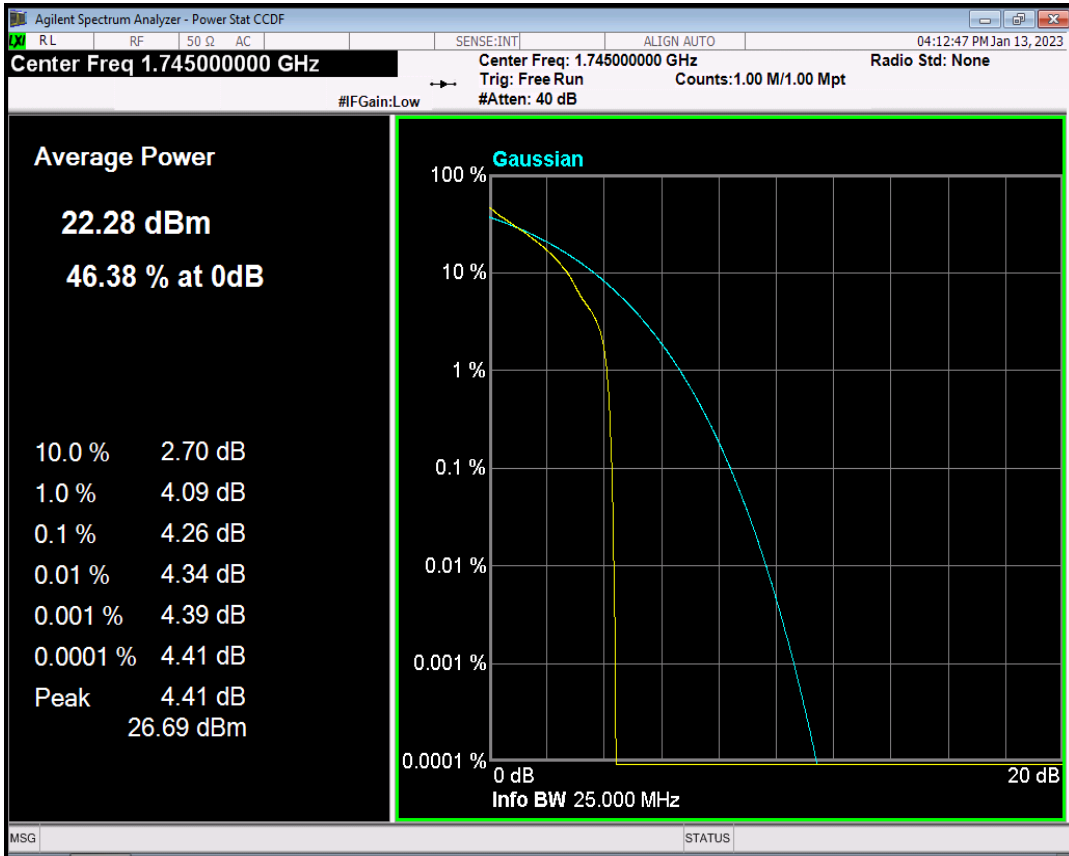


Band4 QAM16 BW=20MHz Channel=20175 RB Size=1 Position=#0

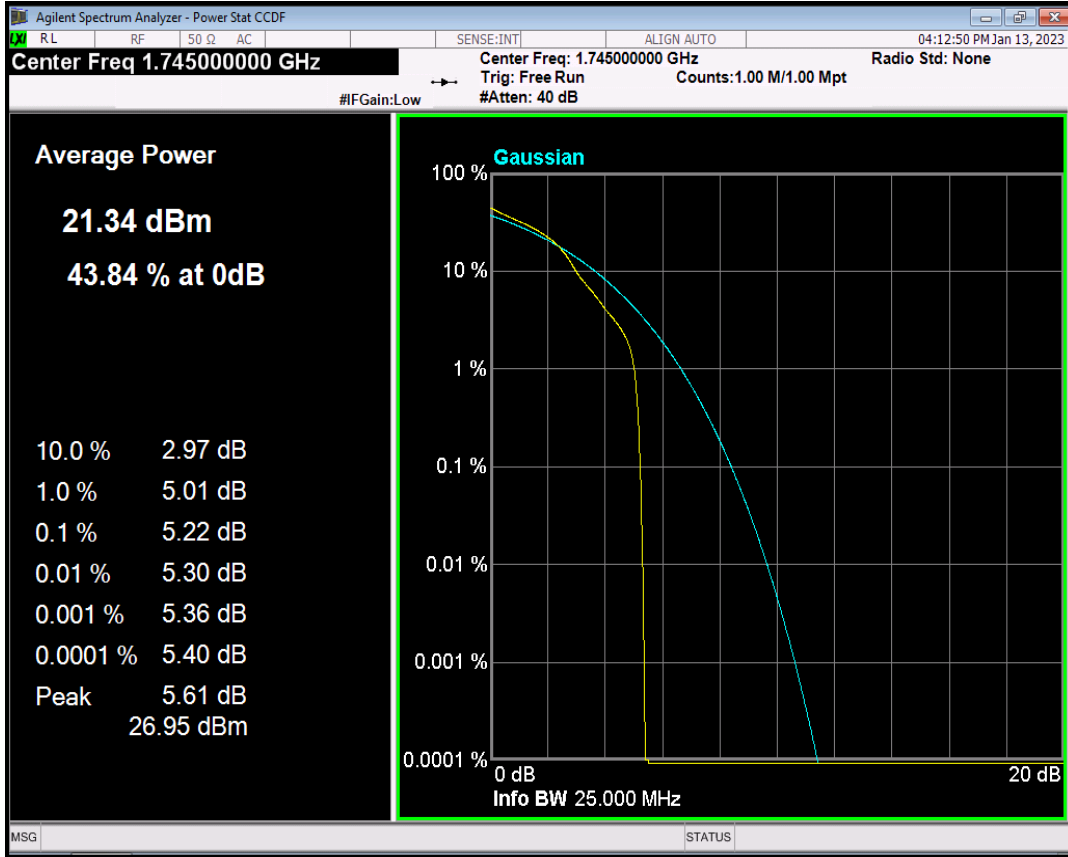




Band4 QPSK BW=20MHz Channel=20300 RB Size=1 Position=#0



Band4 QAM16 BW=20MHz Channel=20300 RB Size=1 Position=#0

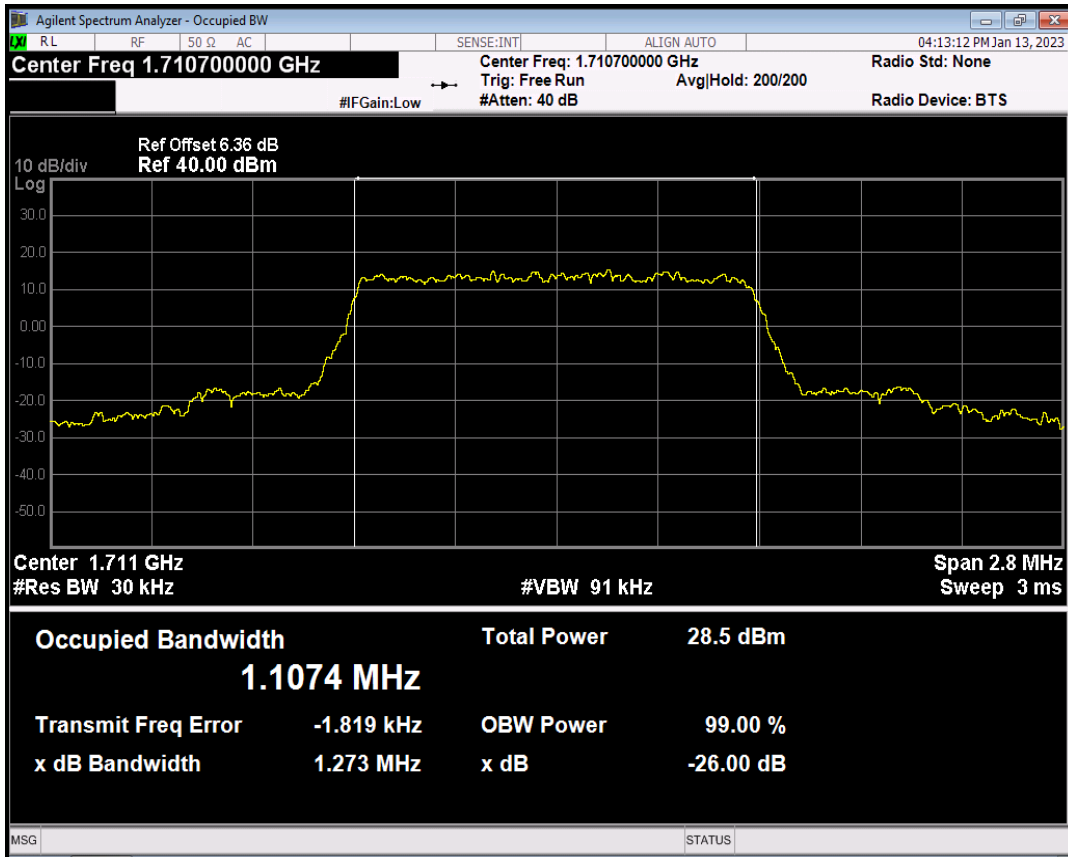


Appendix 4. Occupied bandwidth

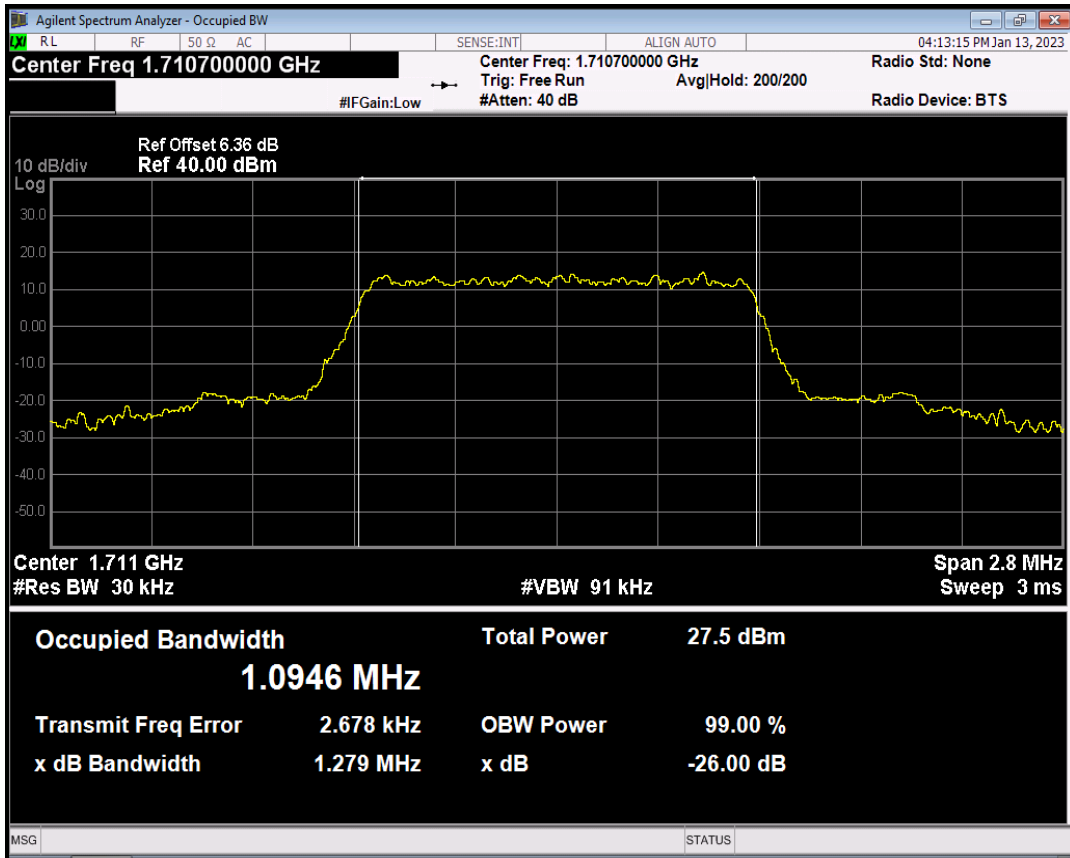
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band4	1.4	19957	6	#0	QPSK	1.107	1.273	PASS
Band4	1.4	19957	6	#0	QAM16	1.095	1.279	PASS
Band4	1.4	20175	6	#0	QPSK	1.095	1.286	PASS
Band4	1.4	20175	6	#0	QAM16	1.103	1.283	PASS
Band4	1.4	20393	6	#0	QPSK	1.102	1.278	PASS
Band4	1.4	20393	6	#0	QAM16	1.102	1.268	PASS
Band4	3	19965	15	#0	QPSK	2.685	2.964	PASS
Band4	3	19965	15	#0	QAM16	2.697	2.984	PASS
Band4	3	20175	15	#0	QPSK	2.702	2.981	PASS
Band4	3	20175	15	#0	QAM16	2.682	2.990	PASS
Band4	3	20385	15	#0	QPSK	2.698	2.952	PASS
Band4	3	20385	15	#0	QAM16	2.687	2.940	PASS
Band4	5	19975	25	#0	QPSK	4.516	4.930	PASS
Band4	5	19975	25	#0	QAM16	4.534	4.874	PASS
Band4	5	20175	25	#0	QPSK	4.504	4.899	PASS
Band4	5	20175	25	#0	QAM16	4.520	4.906	PASS

Band4	5	20375	25	#0	QPSK	4.510	4.855	PASS
Band4	5	20375	25	#0	QAM16	4.528	4.893	PASS
Band4	10	20000	50	#0	QPSK	8.977	9.683	PASS
Band4	10	20000	50	#0	QAM16	8.988	9.683	PASS
Band4	10	20175	50	#0	QPSK	9.000	9.615	PASS
Band4	10	20175	50	#0	QAM16	8.960	9.673	PASS
Band4	10	20350	50	#0	QPSK	8.992	9.760	PASS
Band4	10	20350	50	#0	QAM16	9.010	9.694	PASS
Band4	15	20025	75	#0	QPSK	13.444	14.373	PASS
Band4	15	20025	75	#0	QAM16	13.422	14.420	PASS
Band4	15	20175	75	#0	QPSK	13.426	14.512	PASS
Band4	15	20175	75	#0	QAM16	13.432	14.499	PASS
Band4	15	20325	75	#0	QPSK	13.530	14.492	PASS
Band4	15	20325	75	#0	QAM16	13.556	14.643	PASS
Band4	20	20050	100	#0	QPSK	17.925	19.172	PASS
Band4	20	20050	100	#0	QAM16	17.952	19.097	PASS
Band4	20	20175	100	#0	QPSK	17.879	19.094	PASS
Band4	20	20175	100	#0	QAM16	17.917	19.259	PASS
Band4	20	20300	100	#0	QPSK	18.080	19.258	PASS
Band4	20	20300	100	#0	QAM16	18.052	19.132	PASS

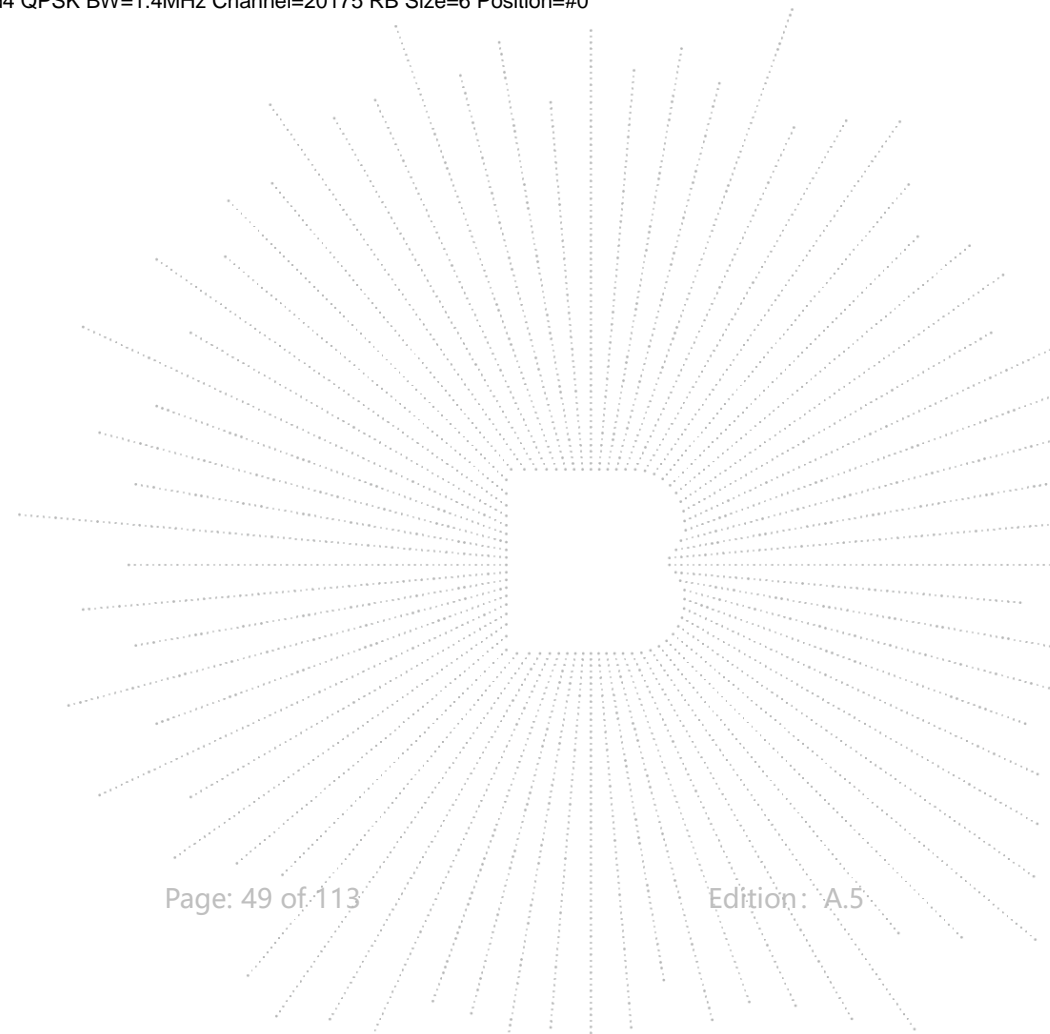
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0

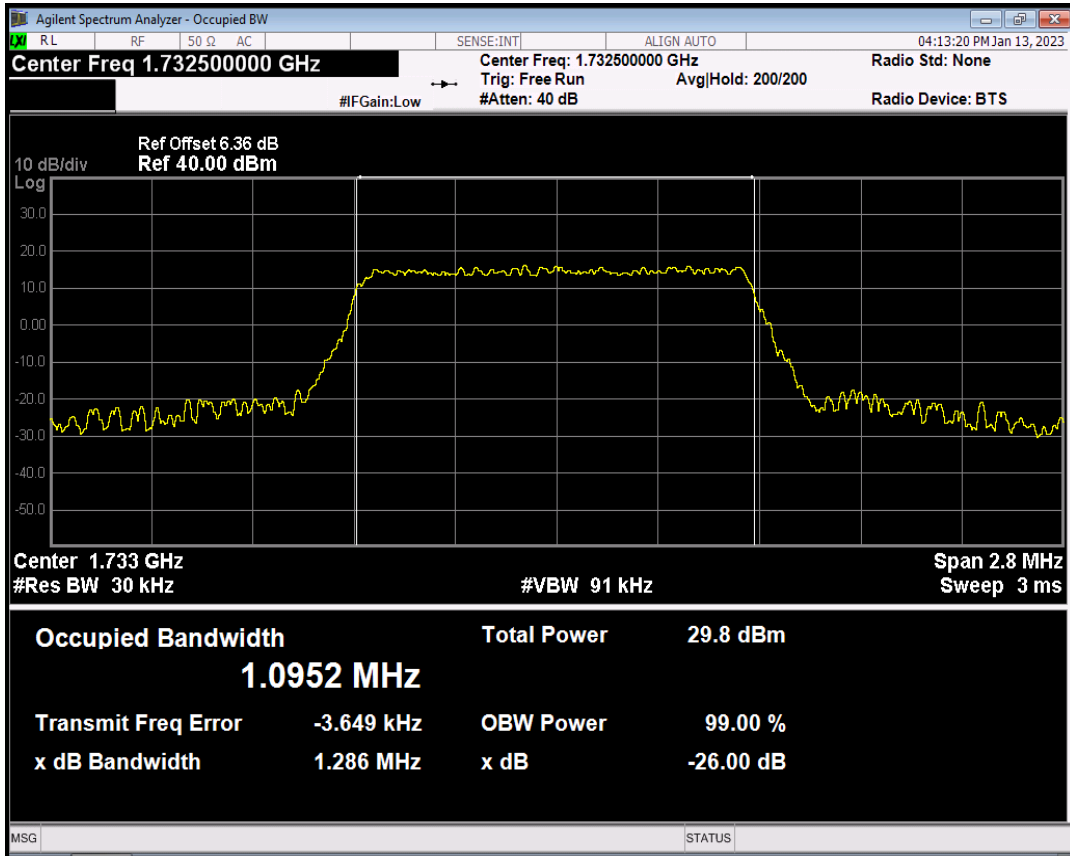


Band4 QAM16 BW=1.4MHz Channel=19957 RB Size=6 Position=#0

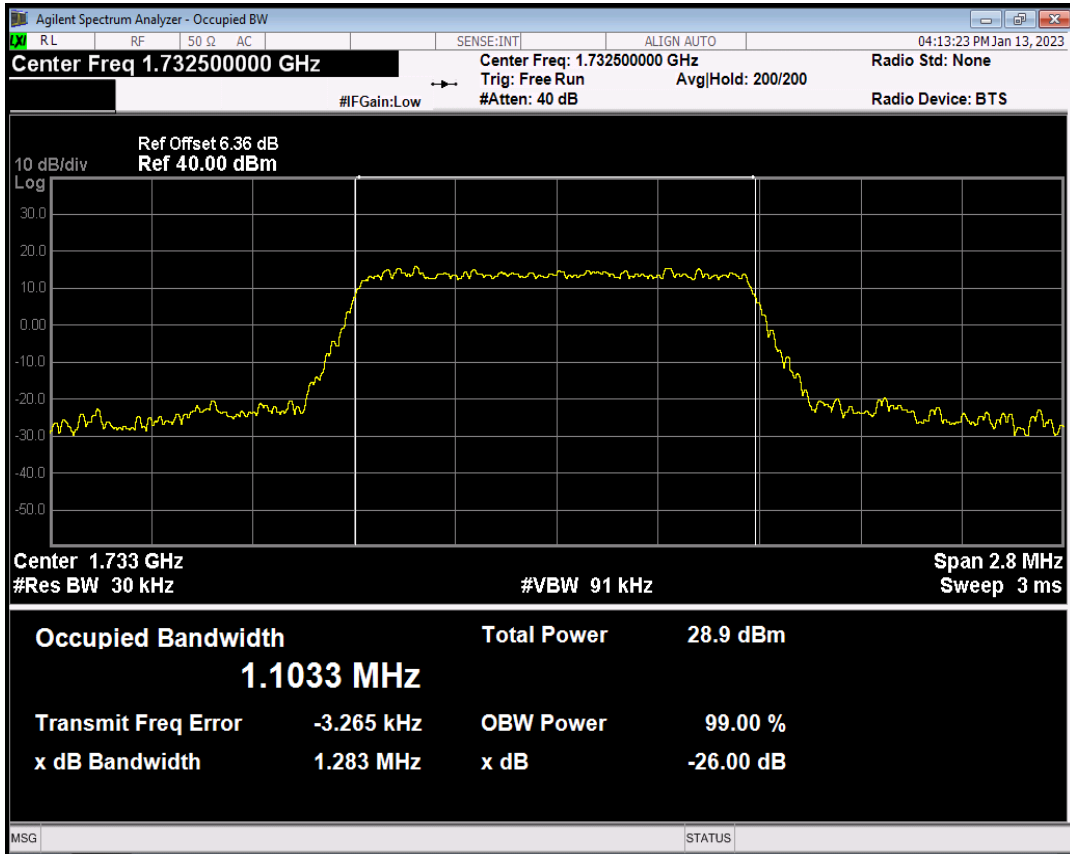


Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0

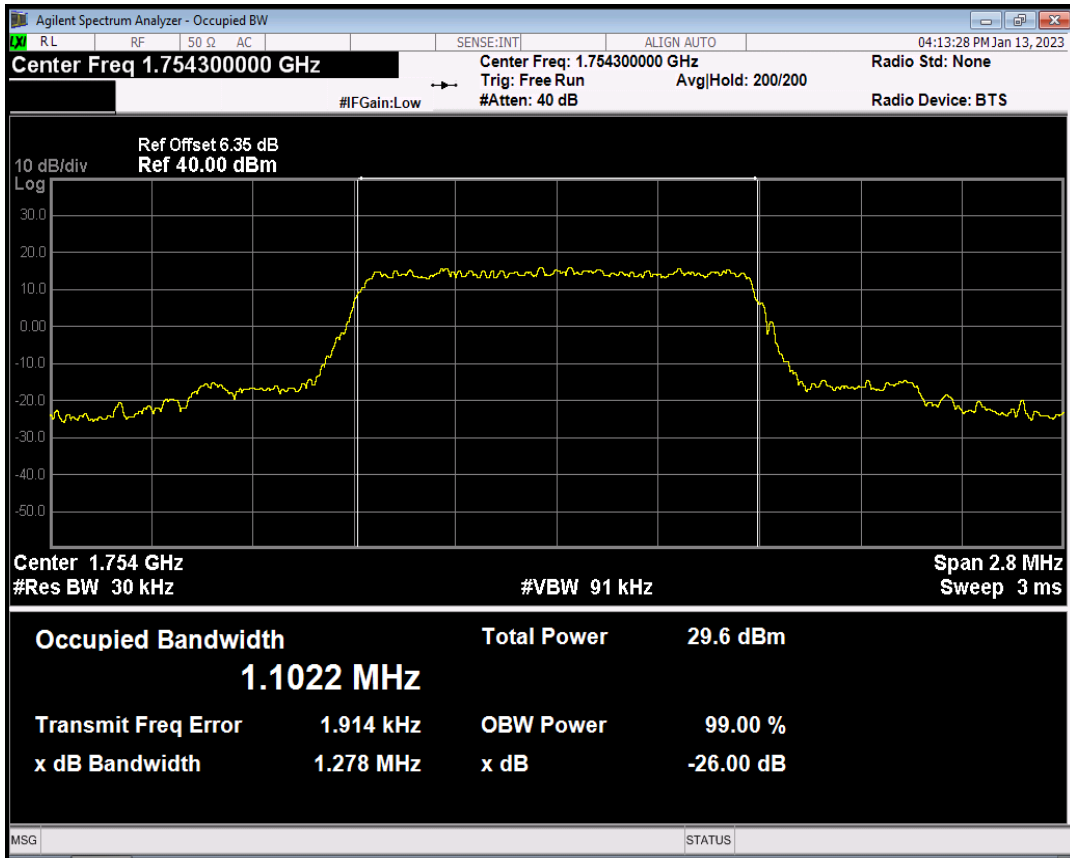




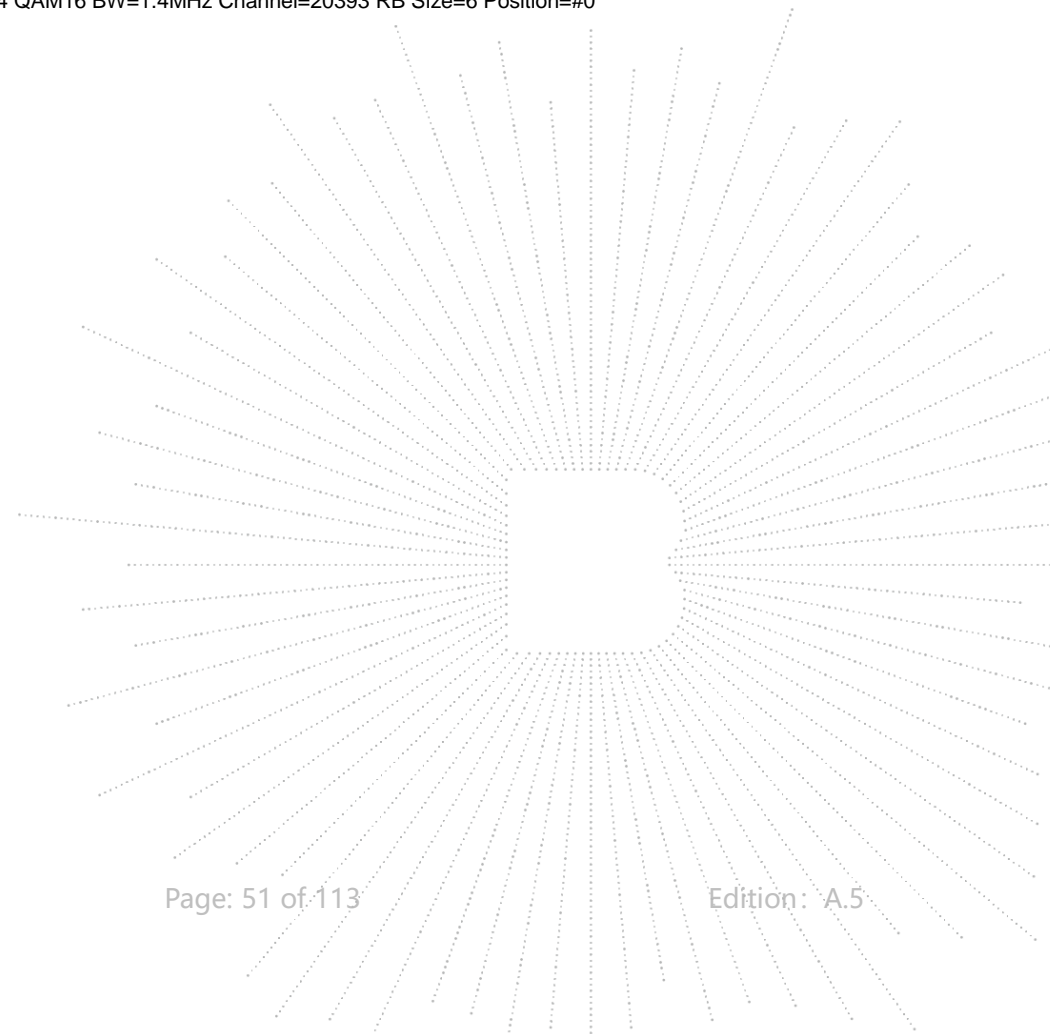
Band4 QAM16 BW=1.4MHz Channel=20175 RB Size=6 Position=#0

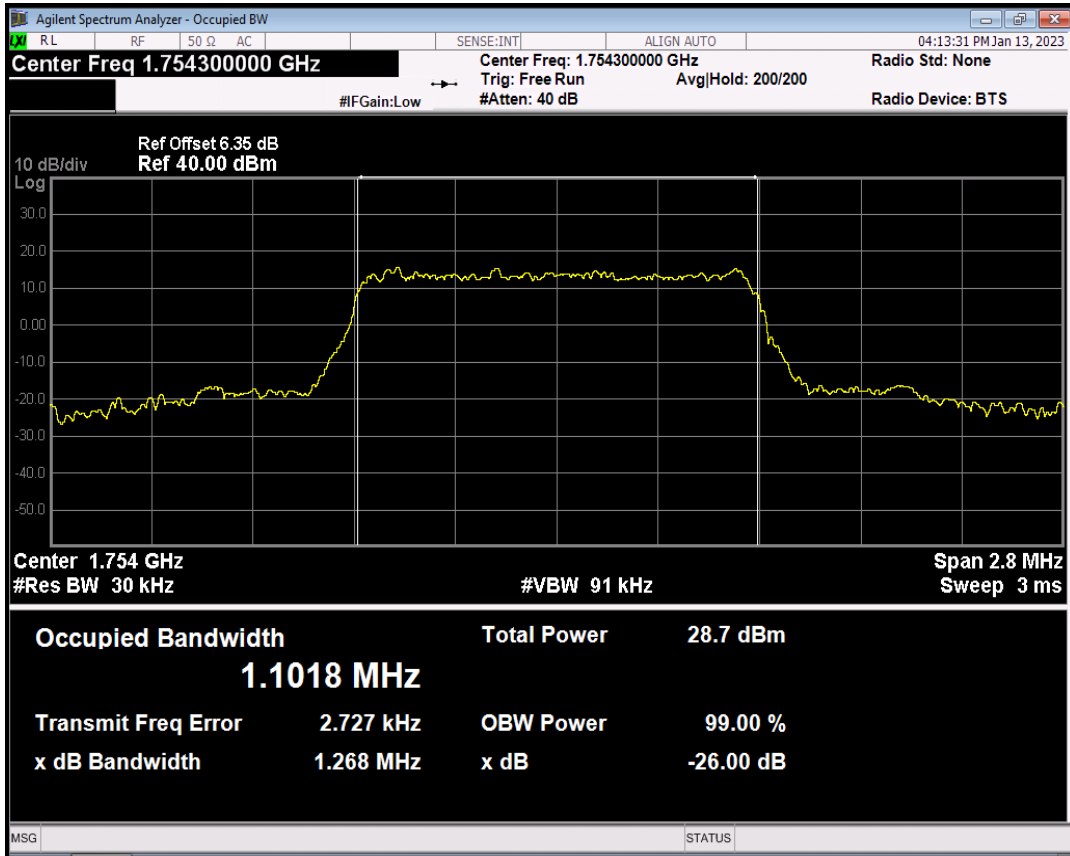


Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

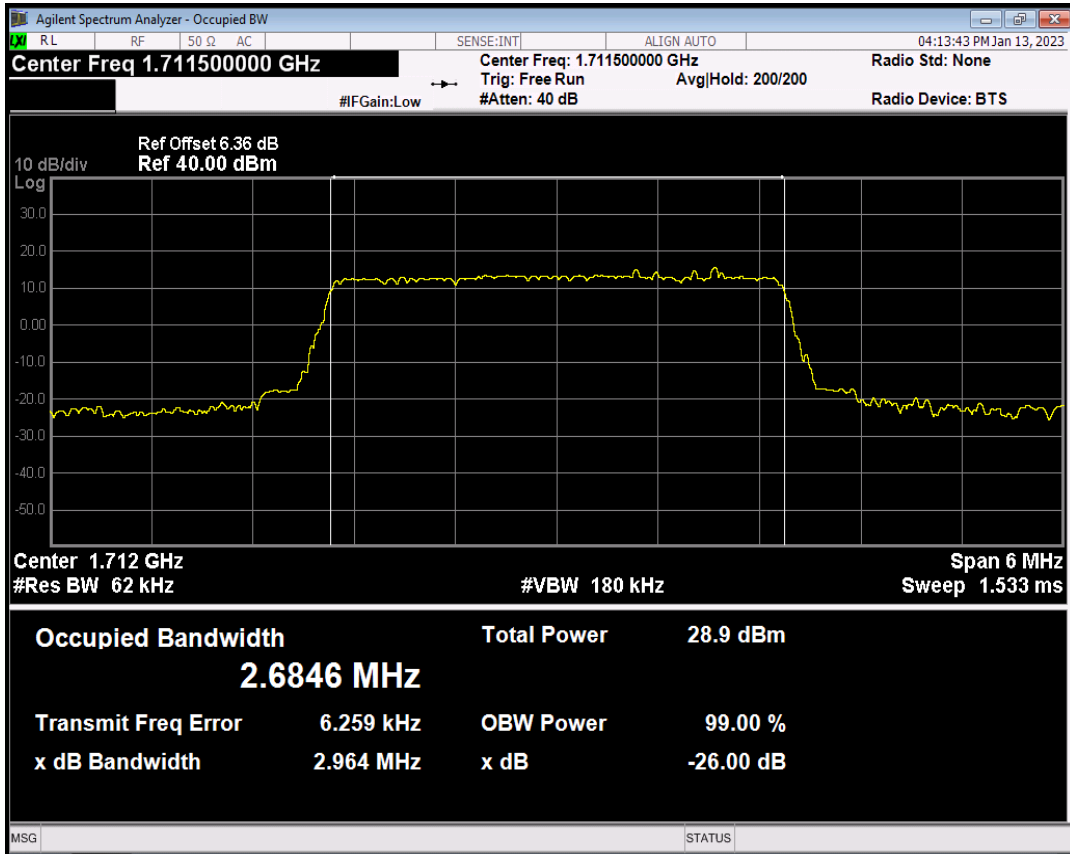


Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0

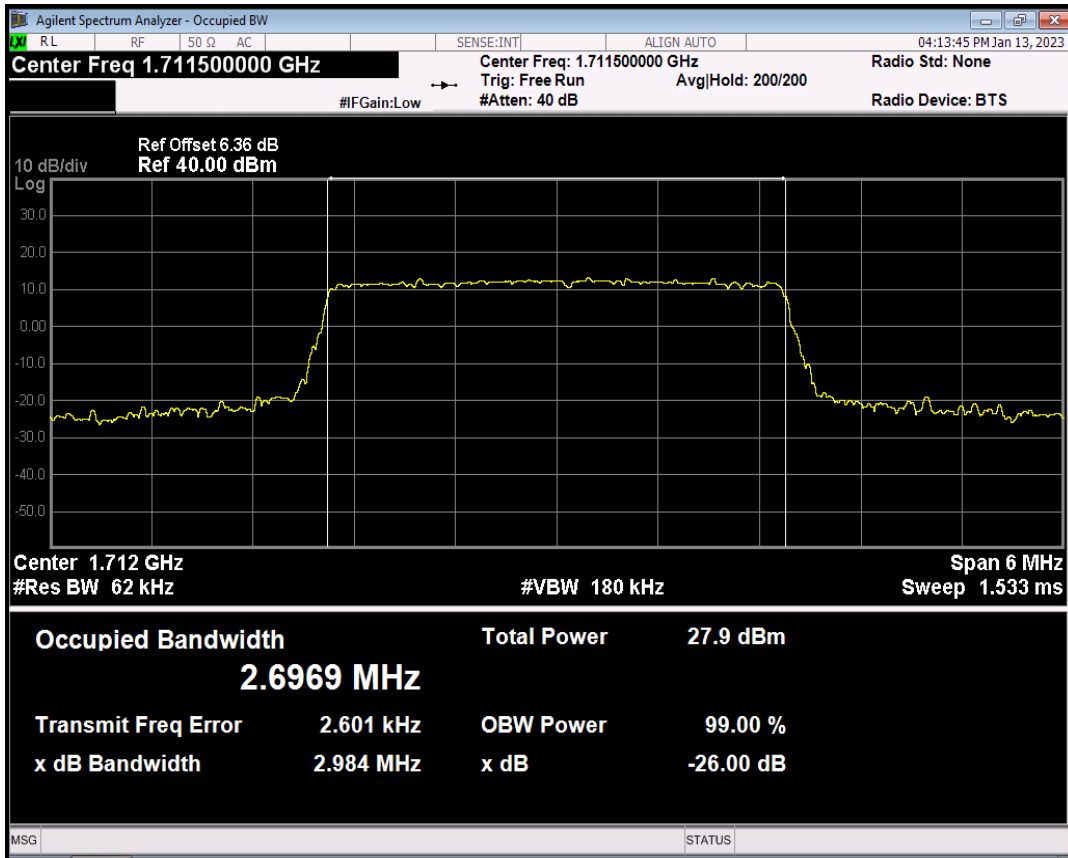




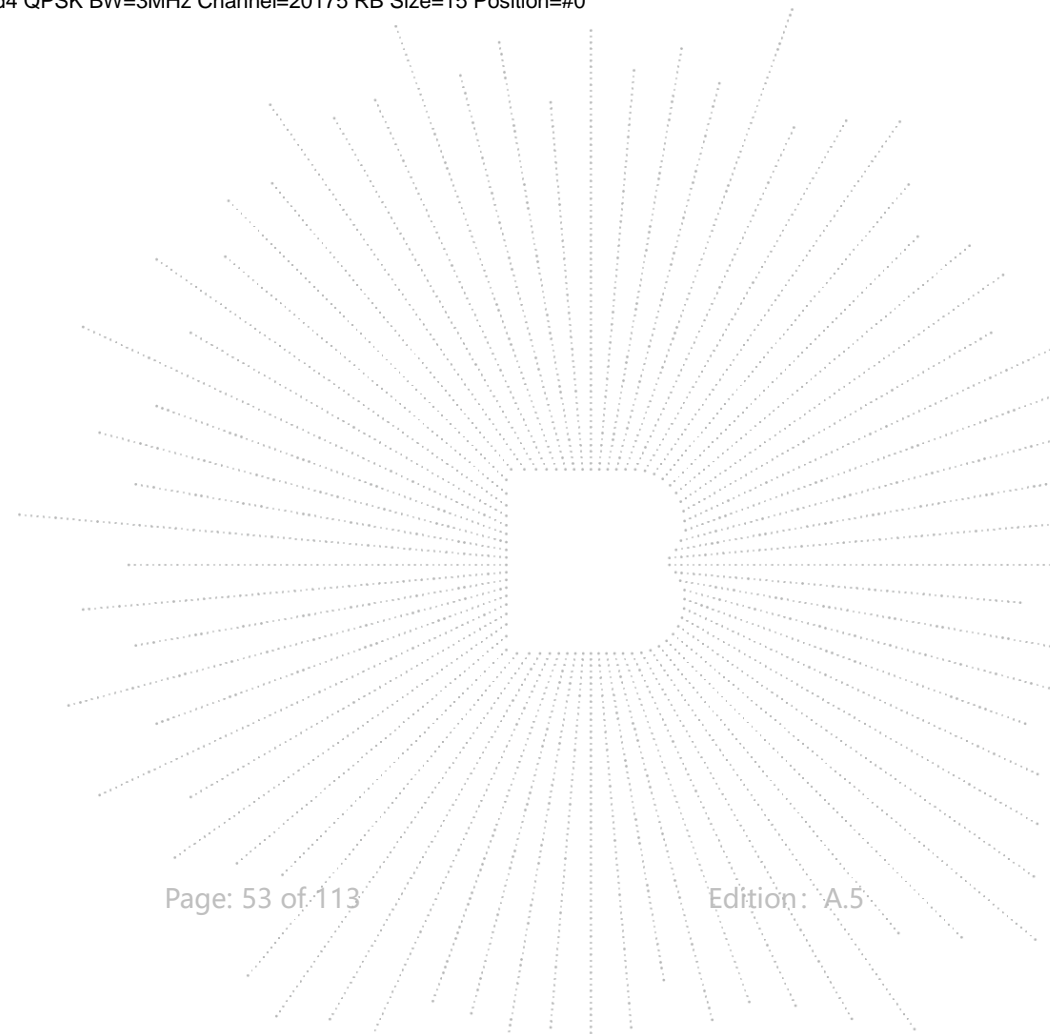
Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0

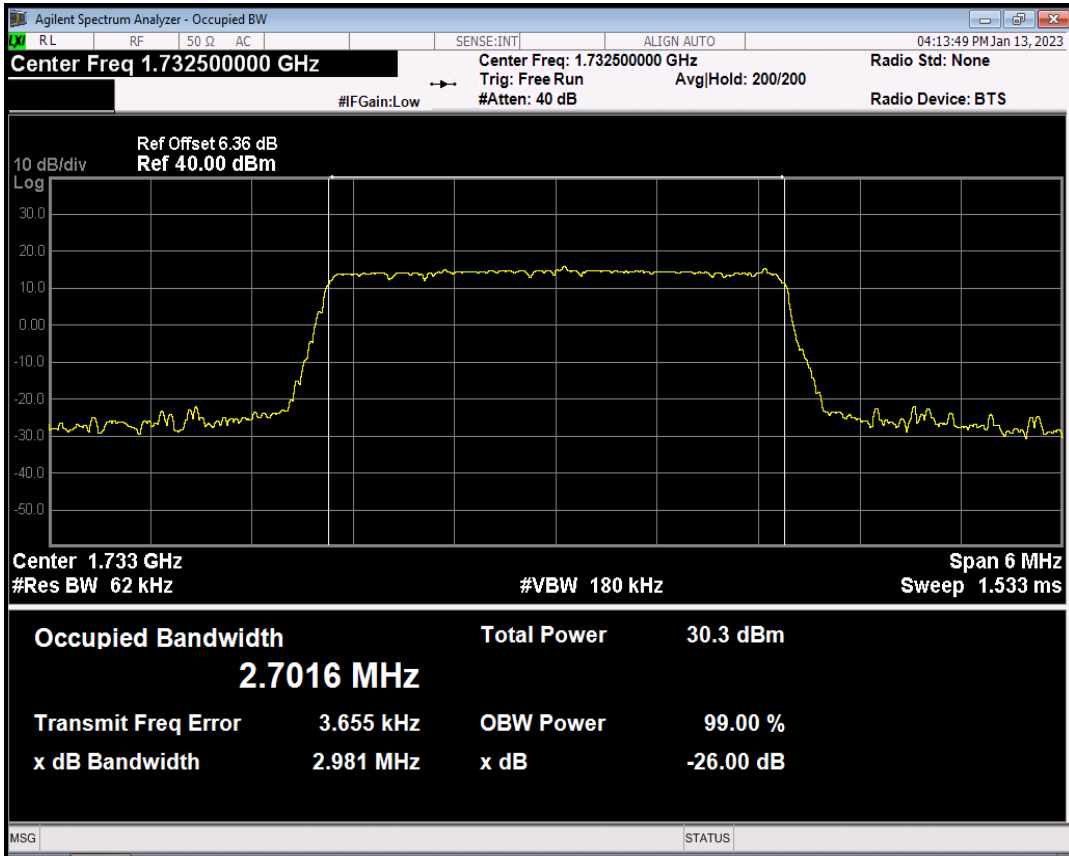


Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0

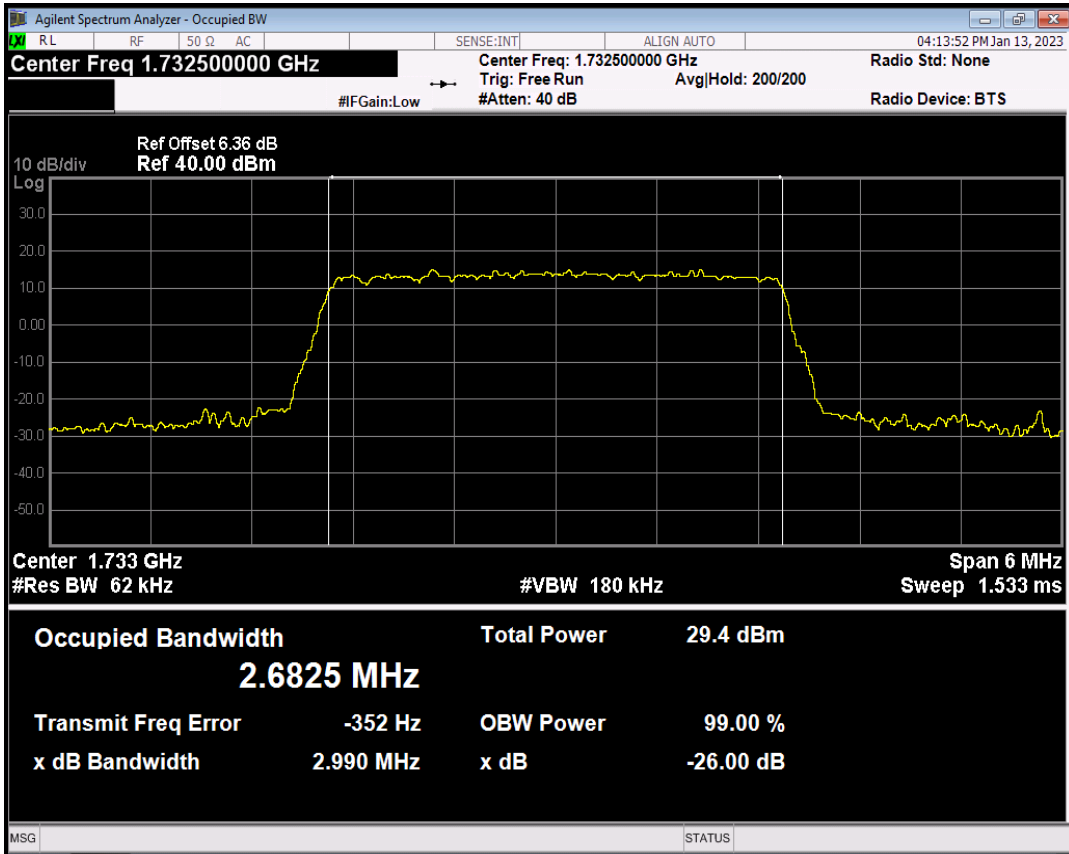


Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0

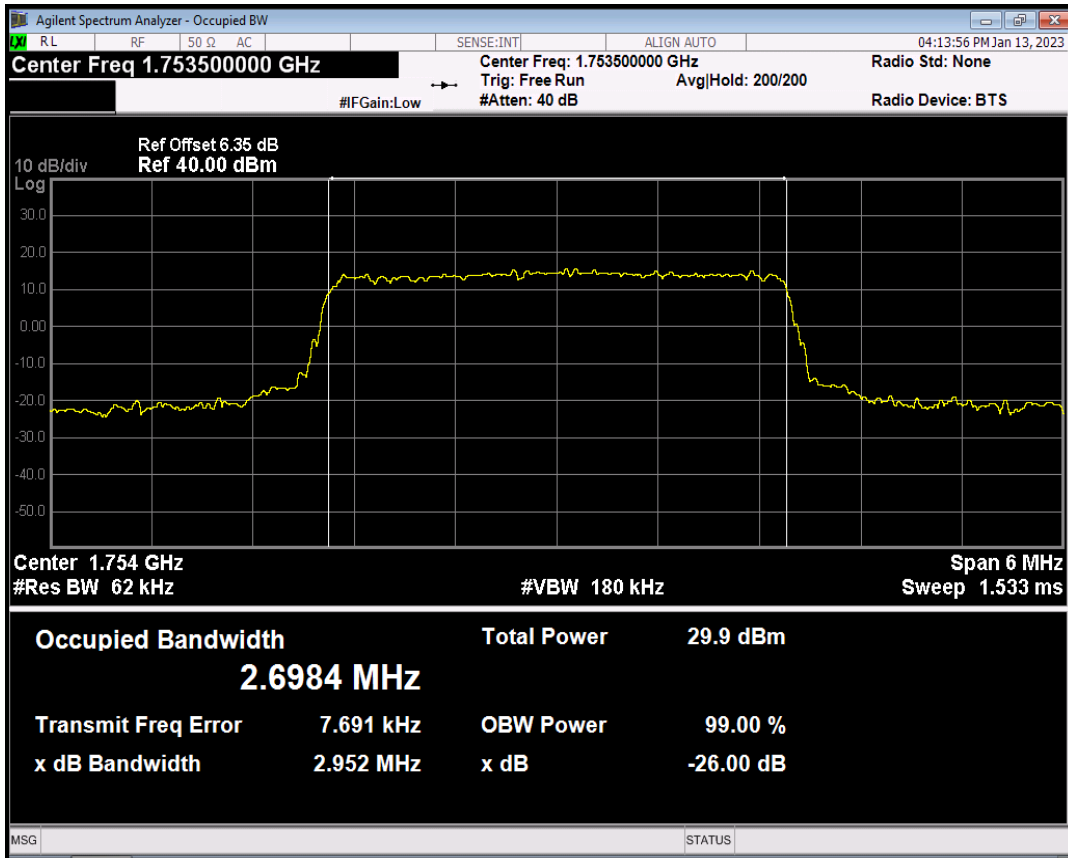




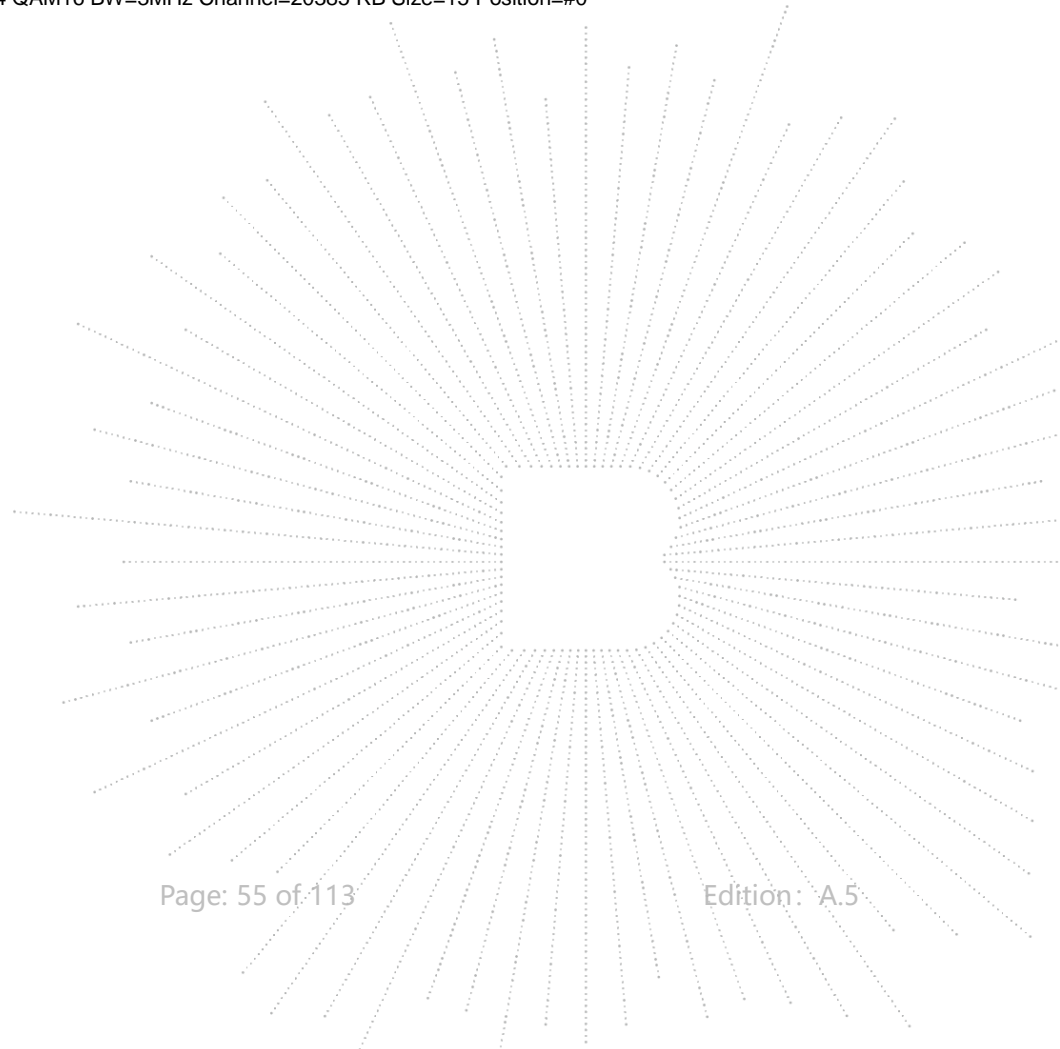
Band4 QAM16 BW=3MHz Channel=20175 RB Size=15 Position=#0

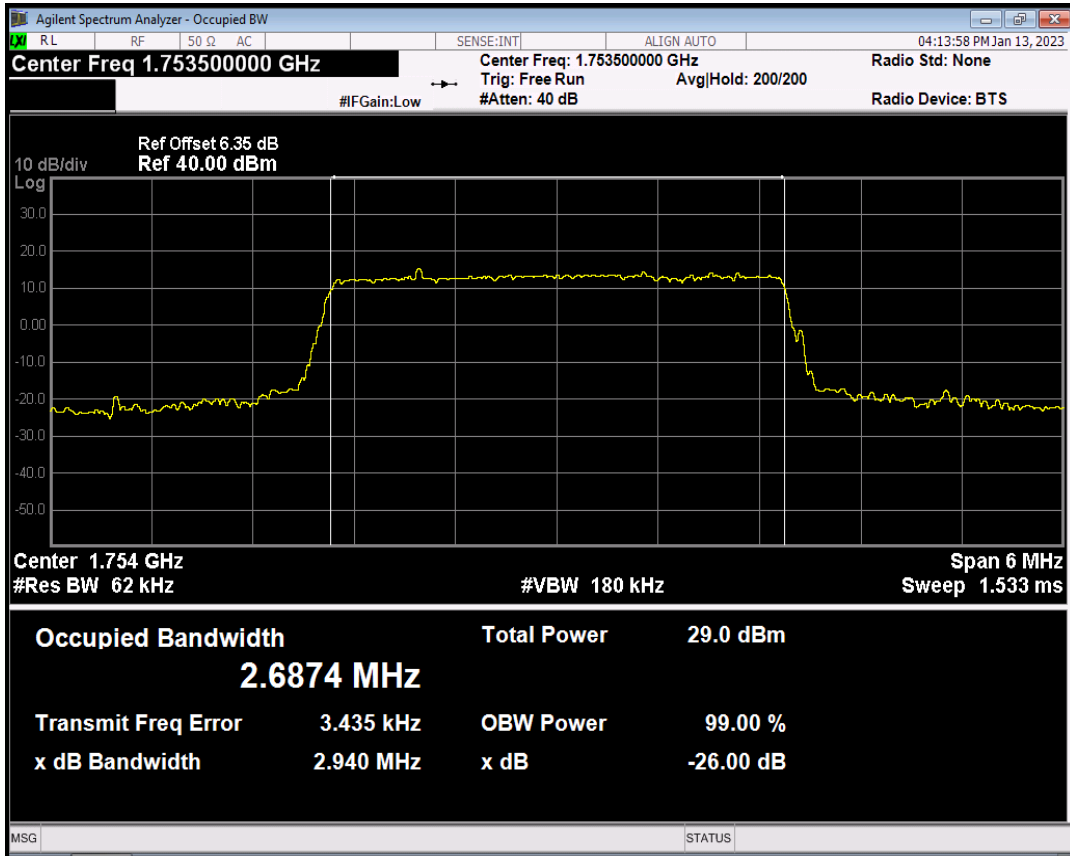


Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

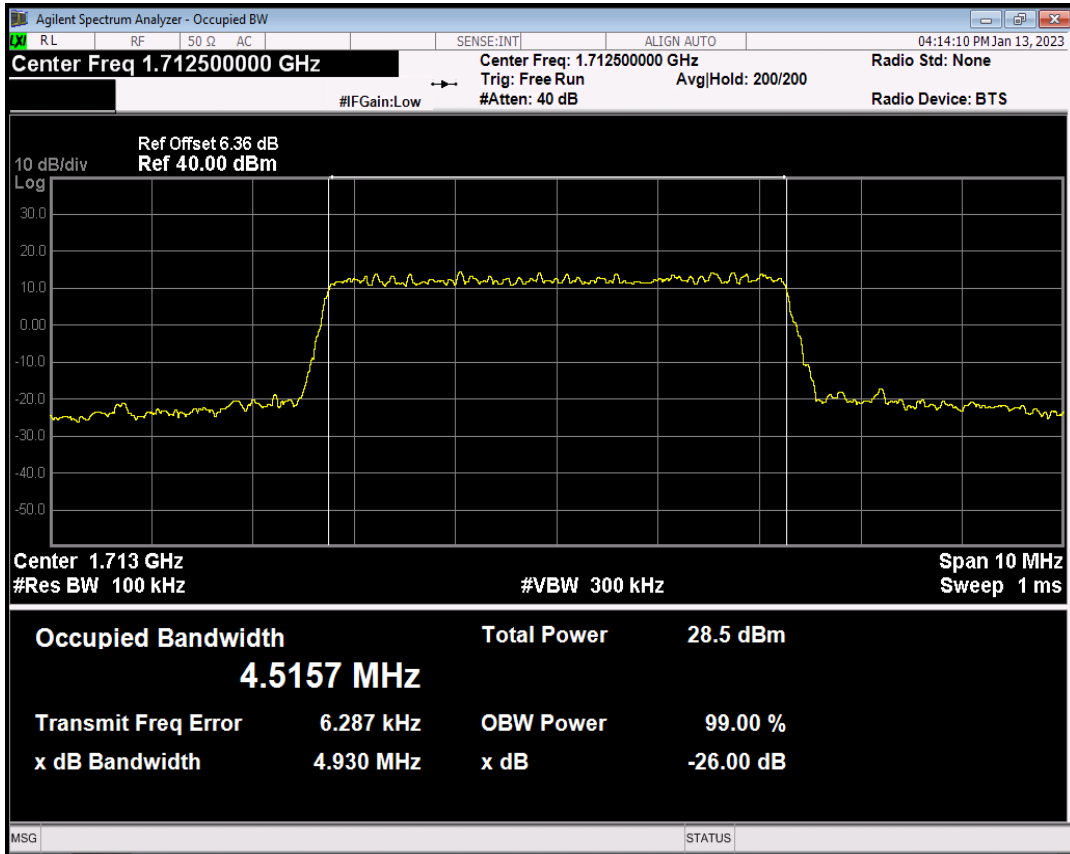


Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0

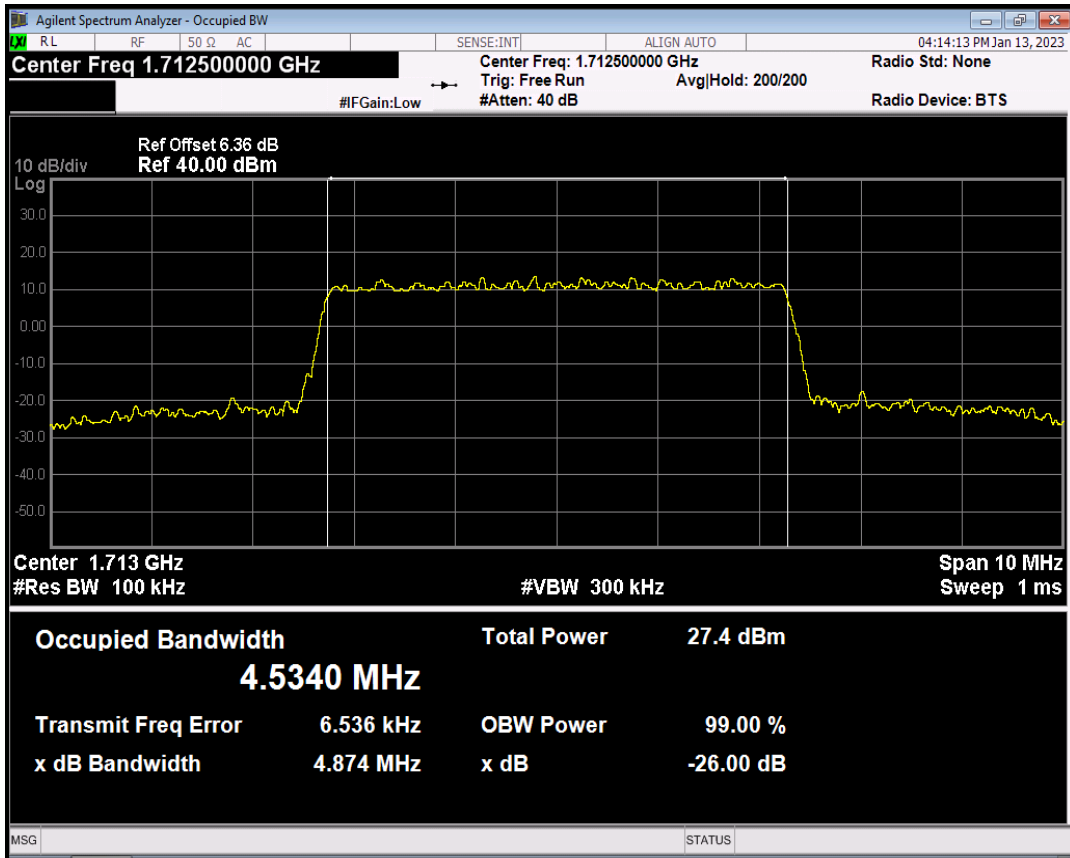




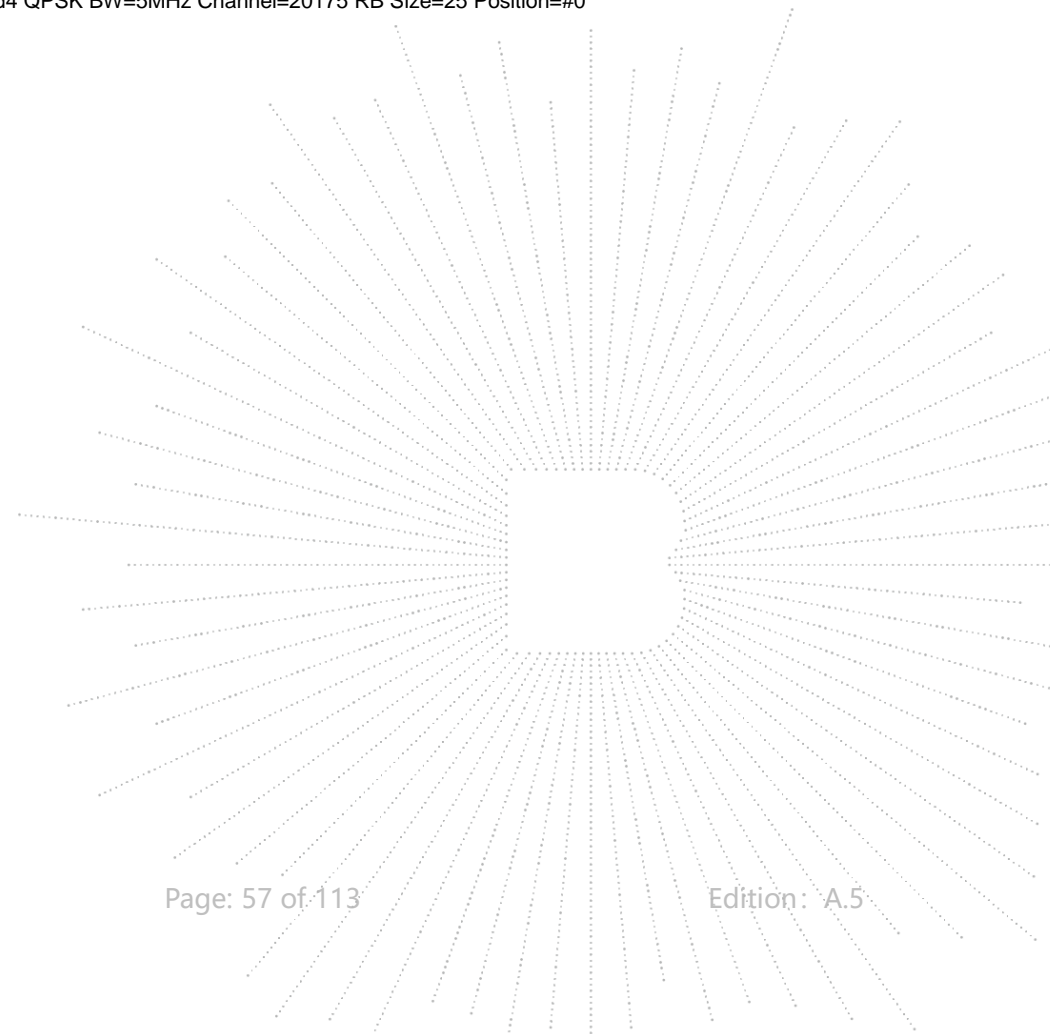
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0

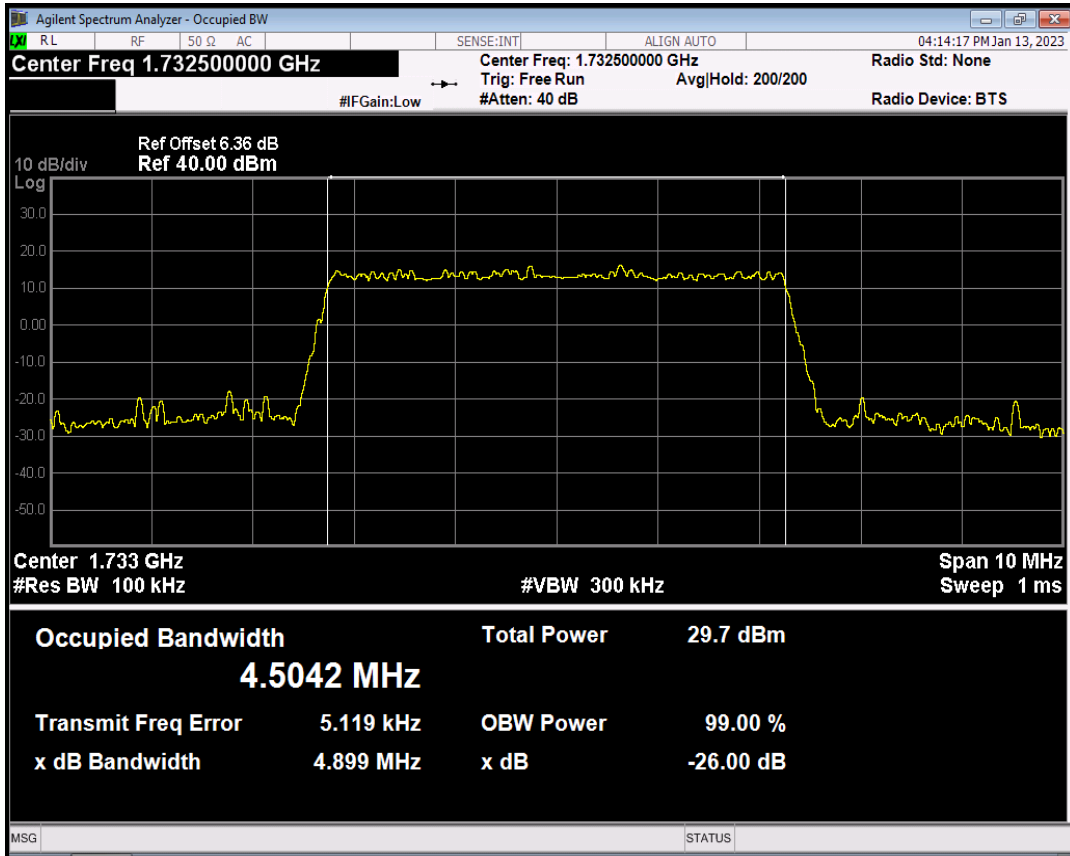


Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0

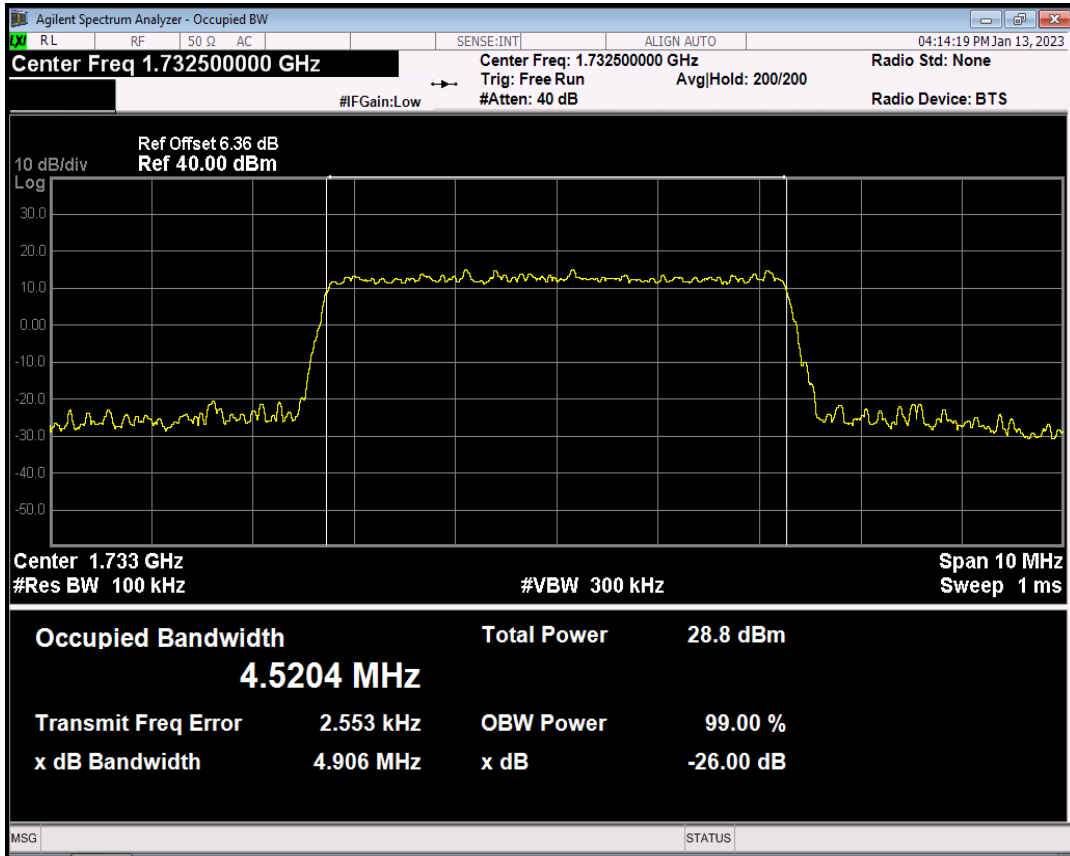


Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0



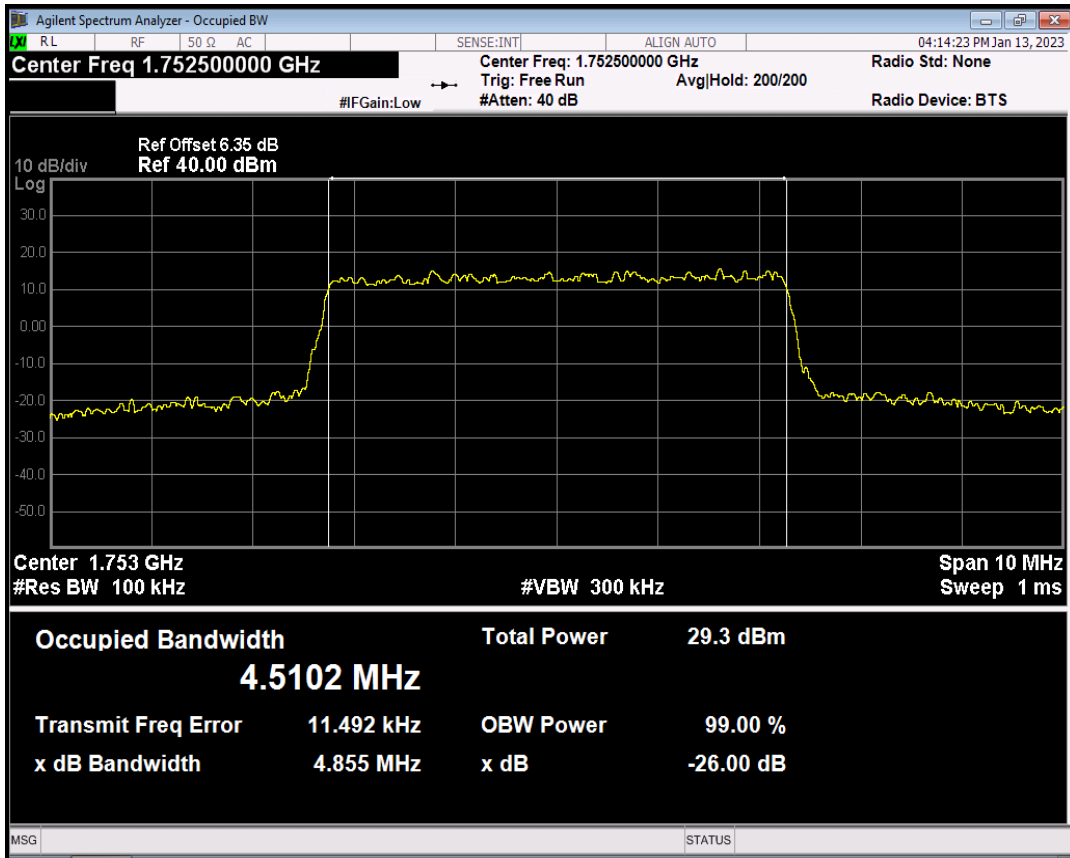


Band4 QAM16 BW=5MHz Channel=20175 RB Size=25 Position=#0

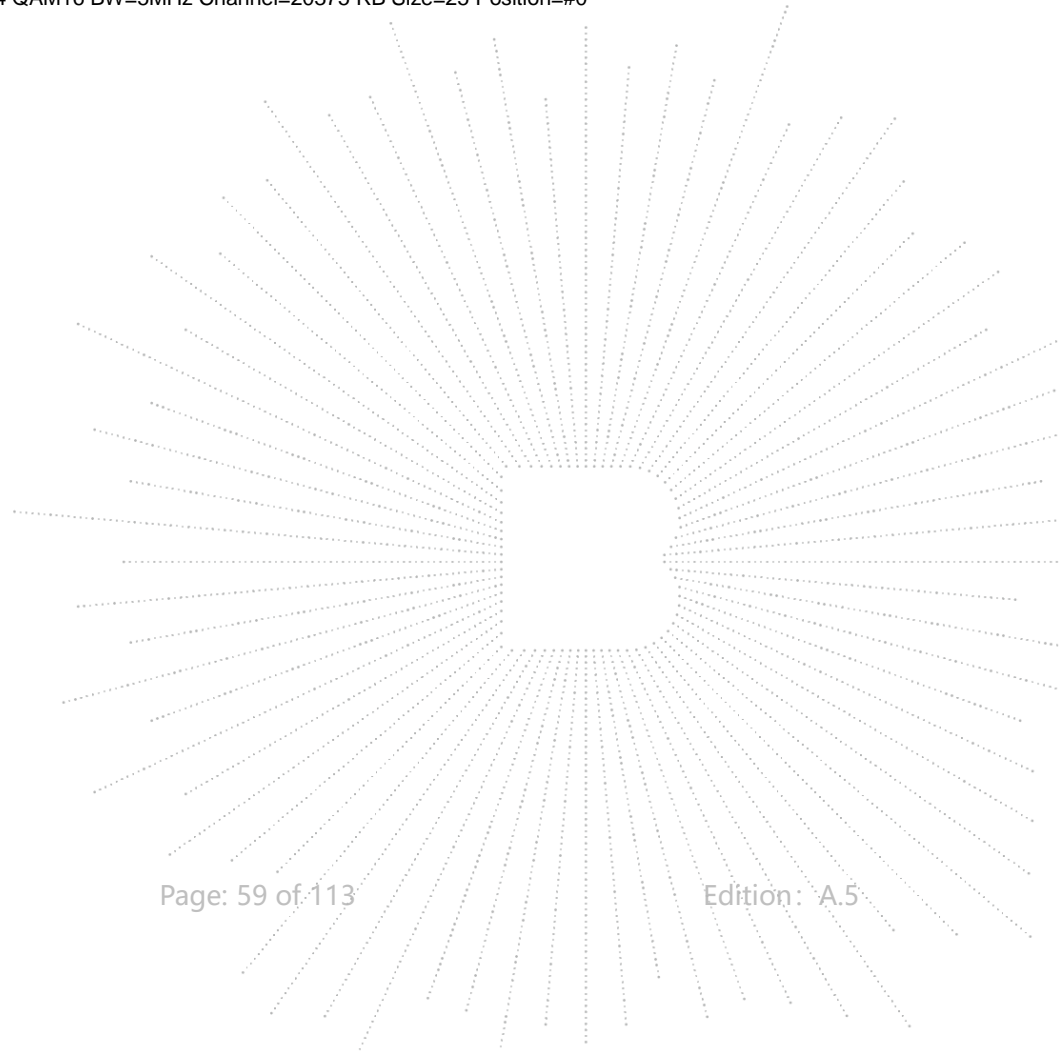


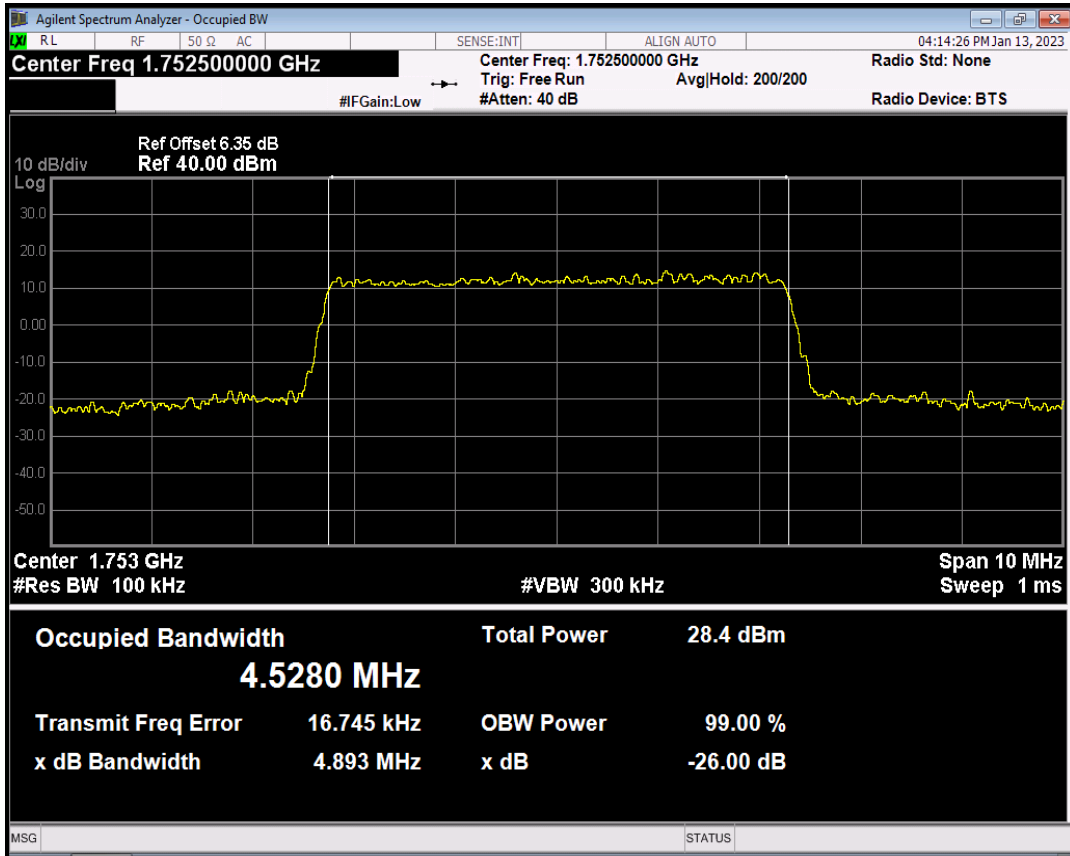


Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

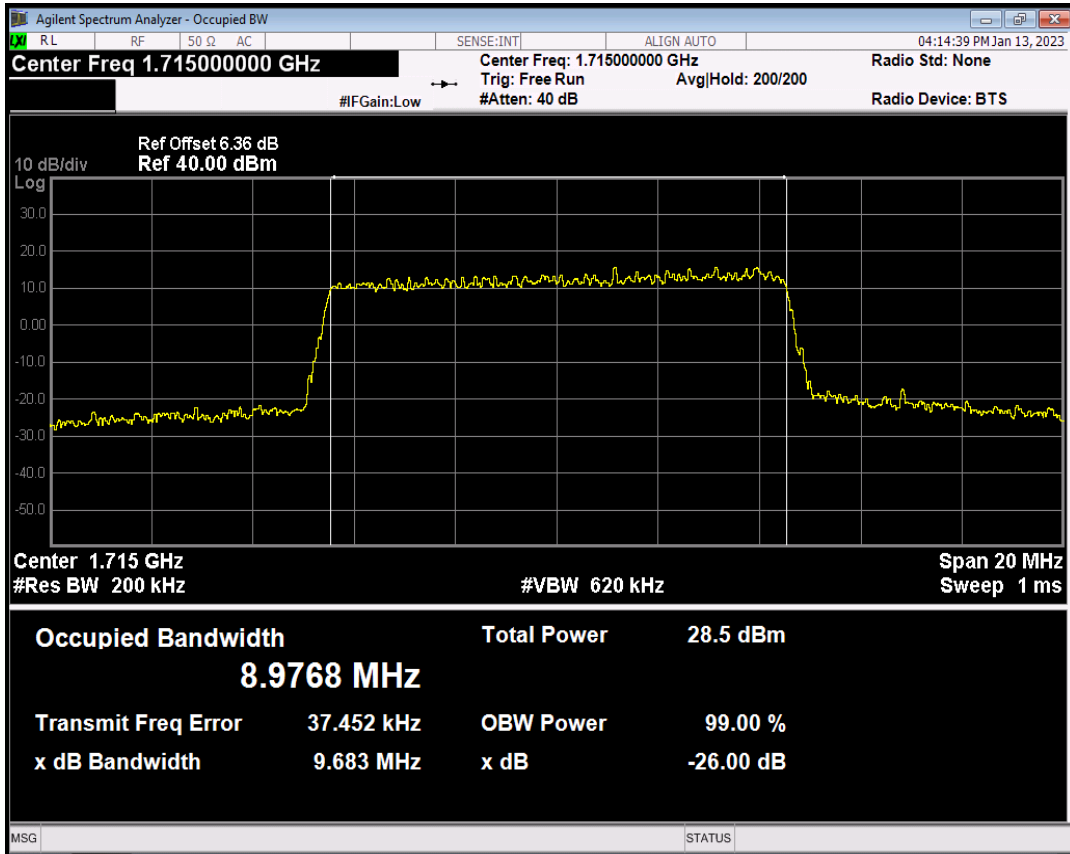


Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0

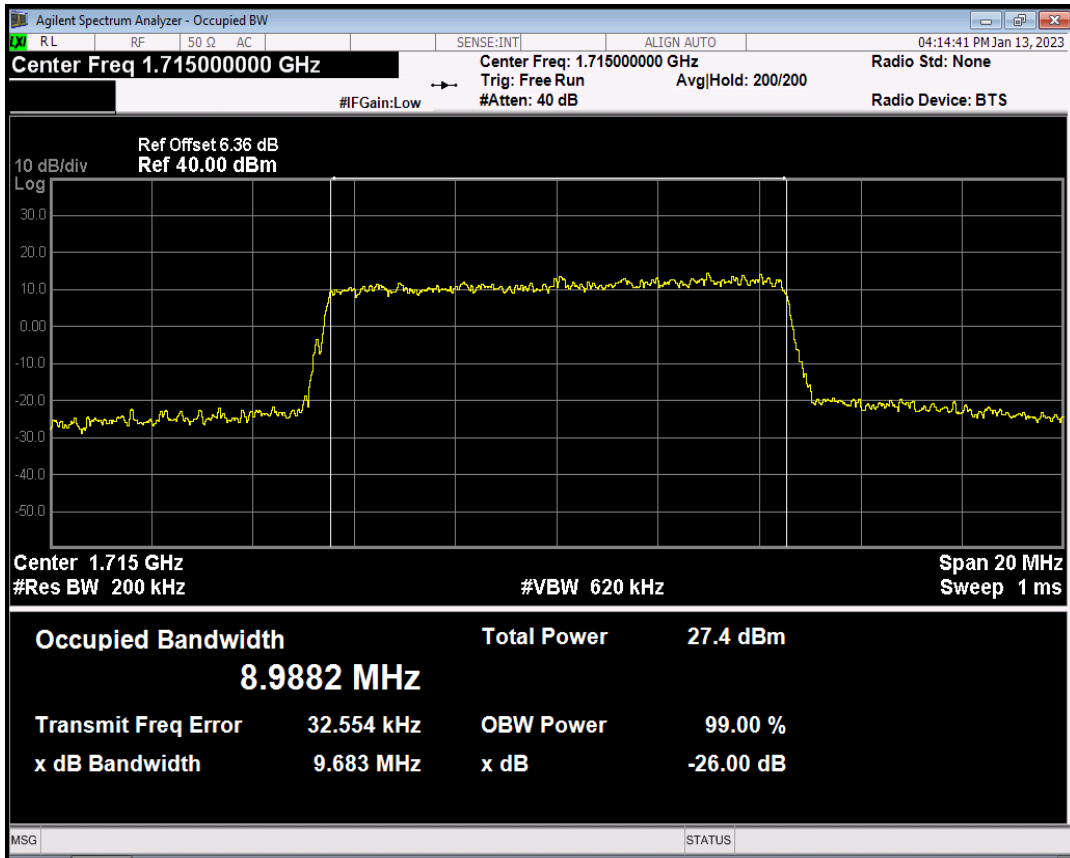




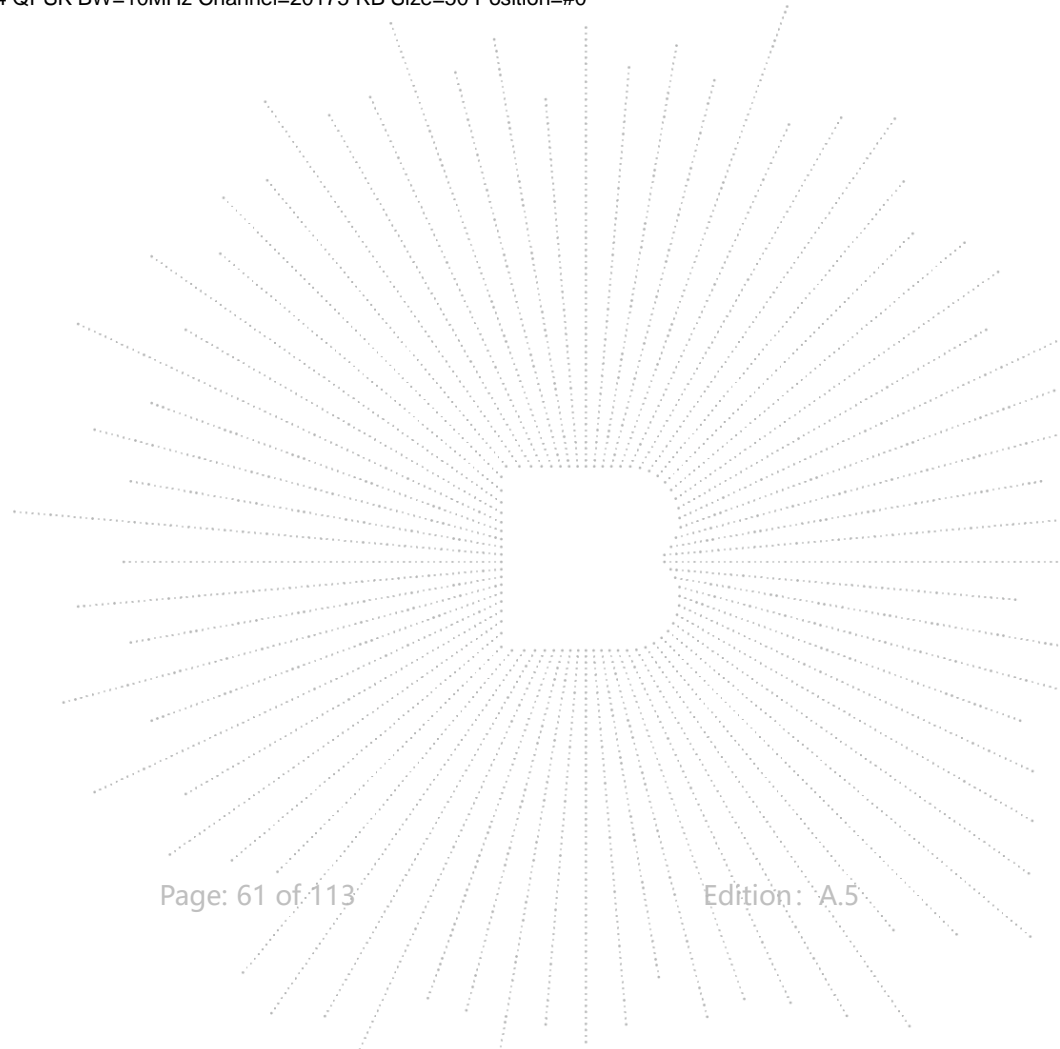
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0

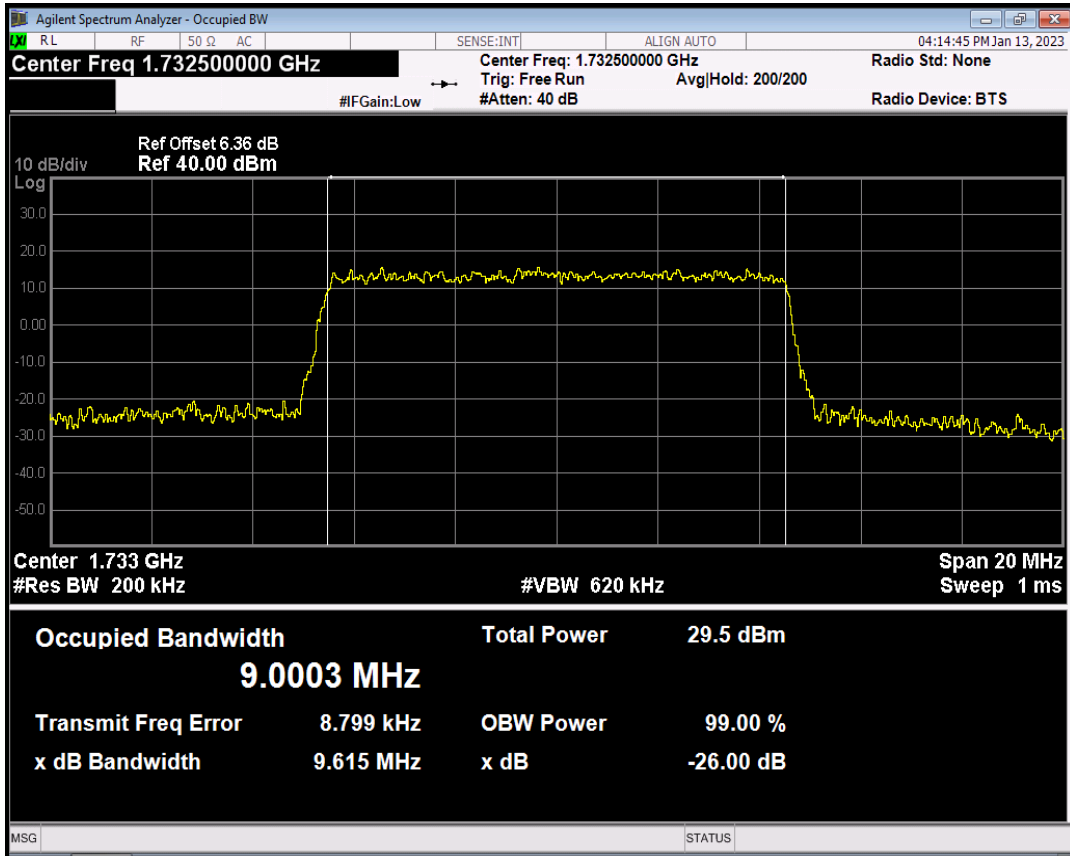


Band4 QAM16 BW=10MHz Channel=20000 RB Size=50 Position=#0

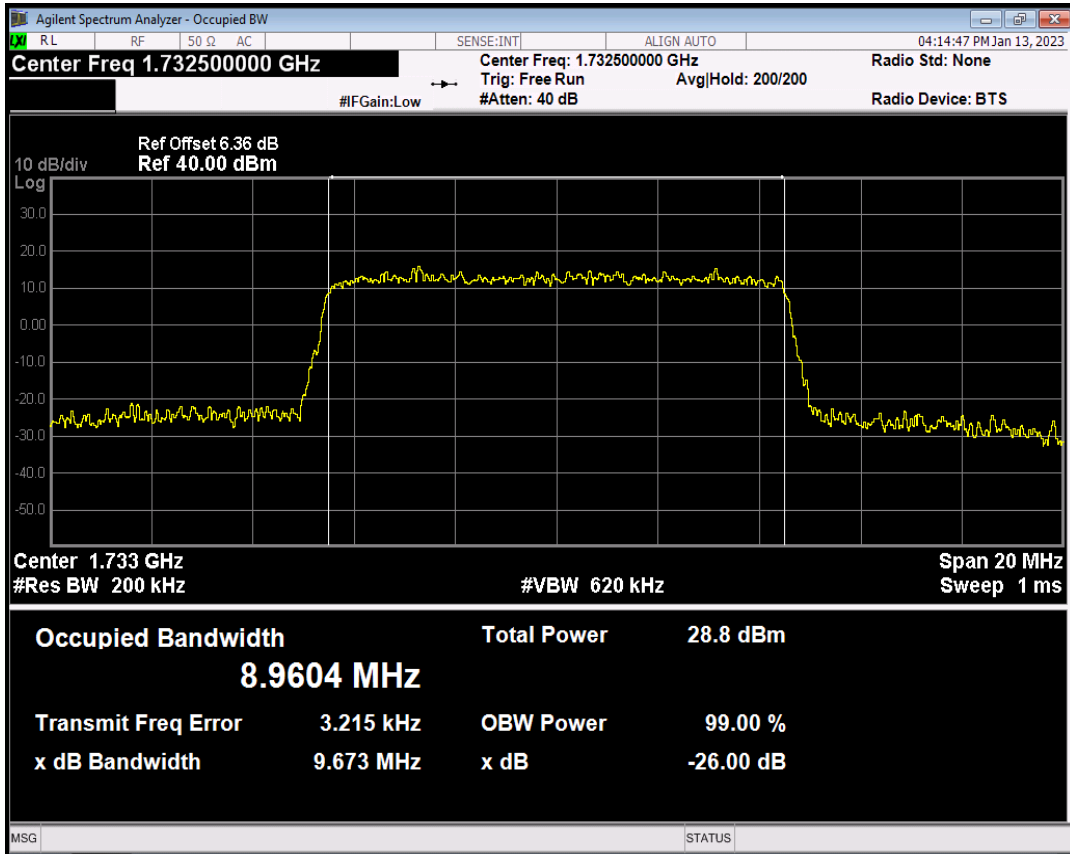


Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0



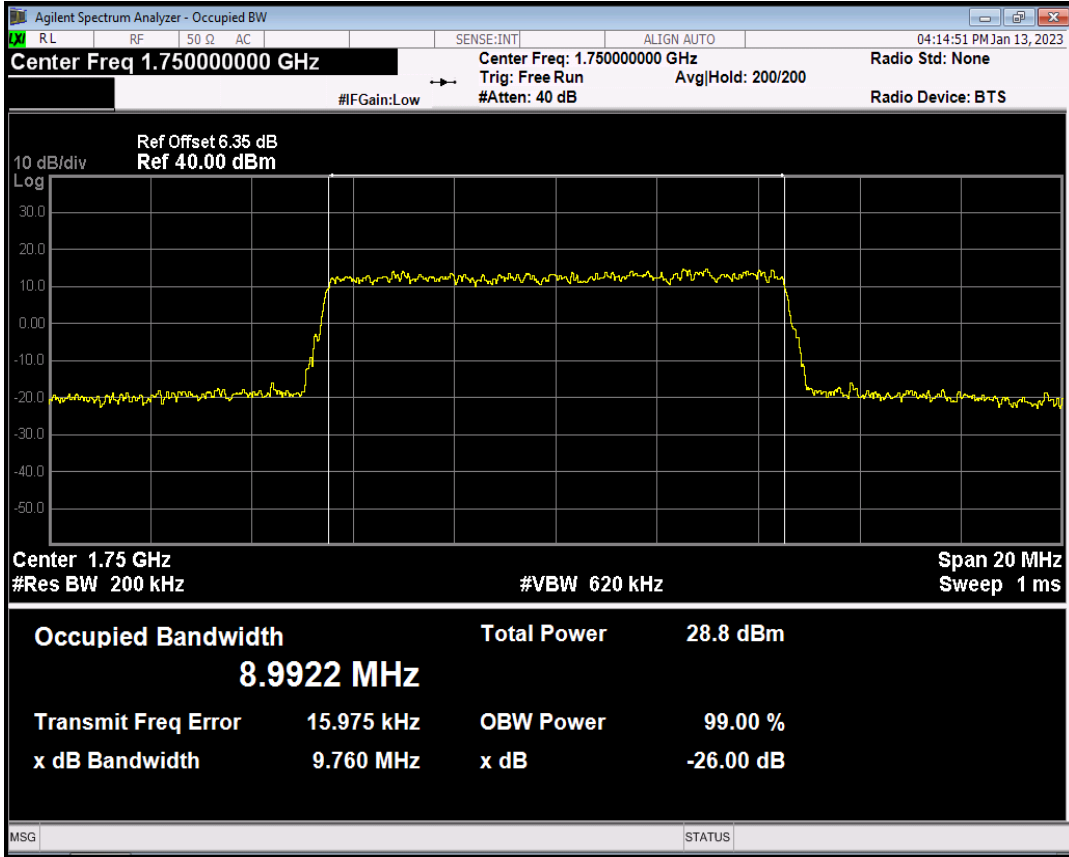


Band4 QAM16 BW=10MHz Channel=20175 RB Size=50 Position=#0

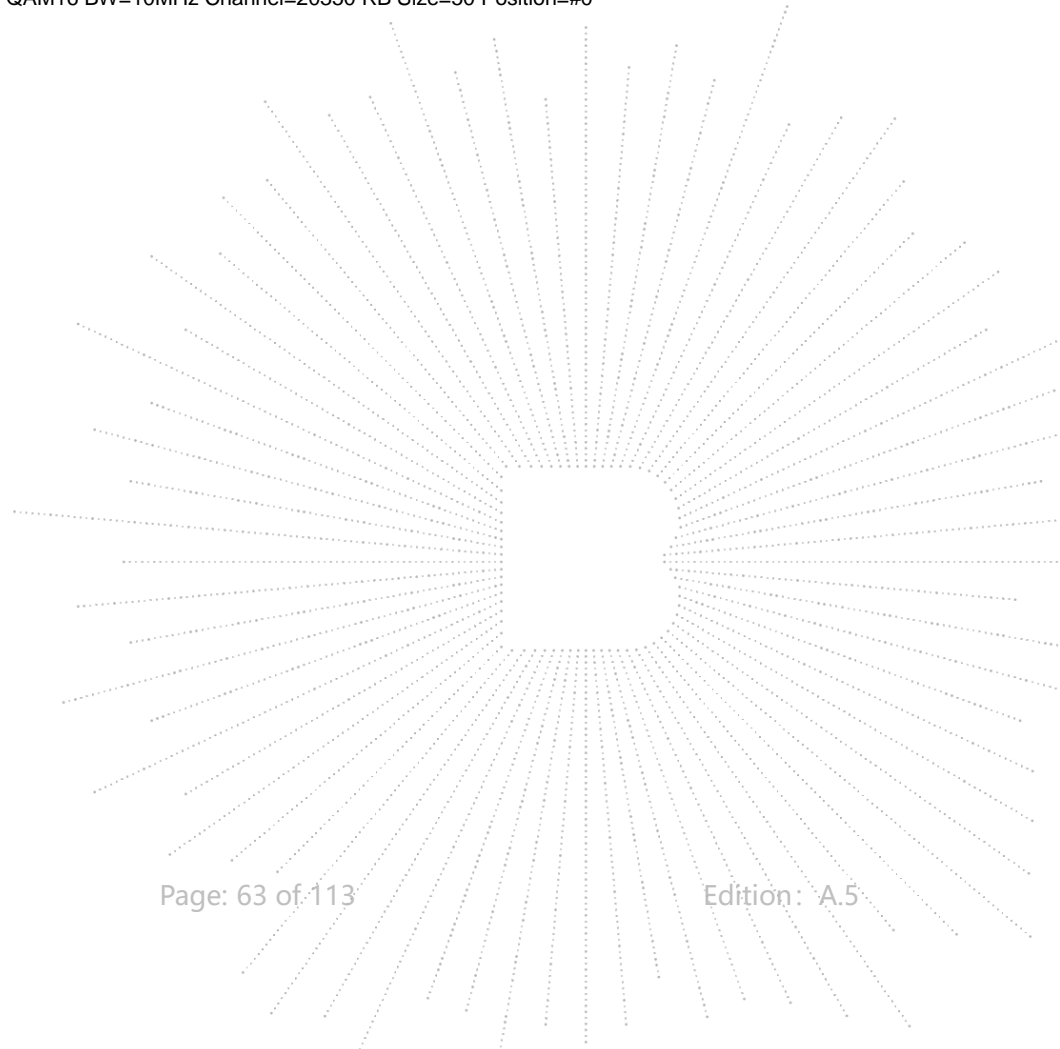


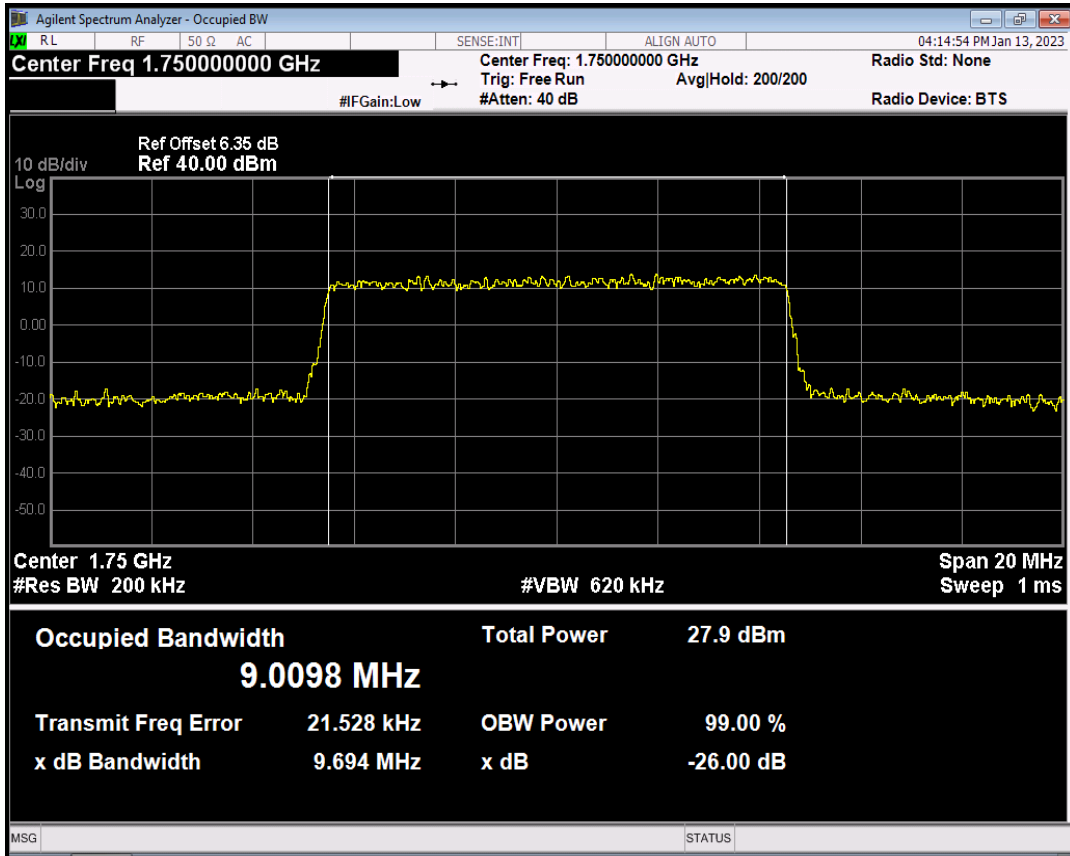


Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

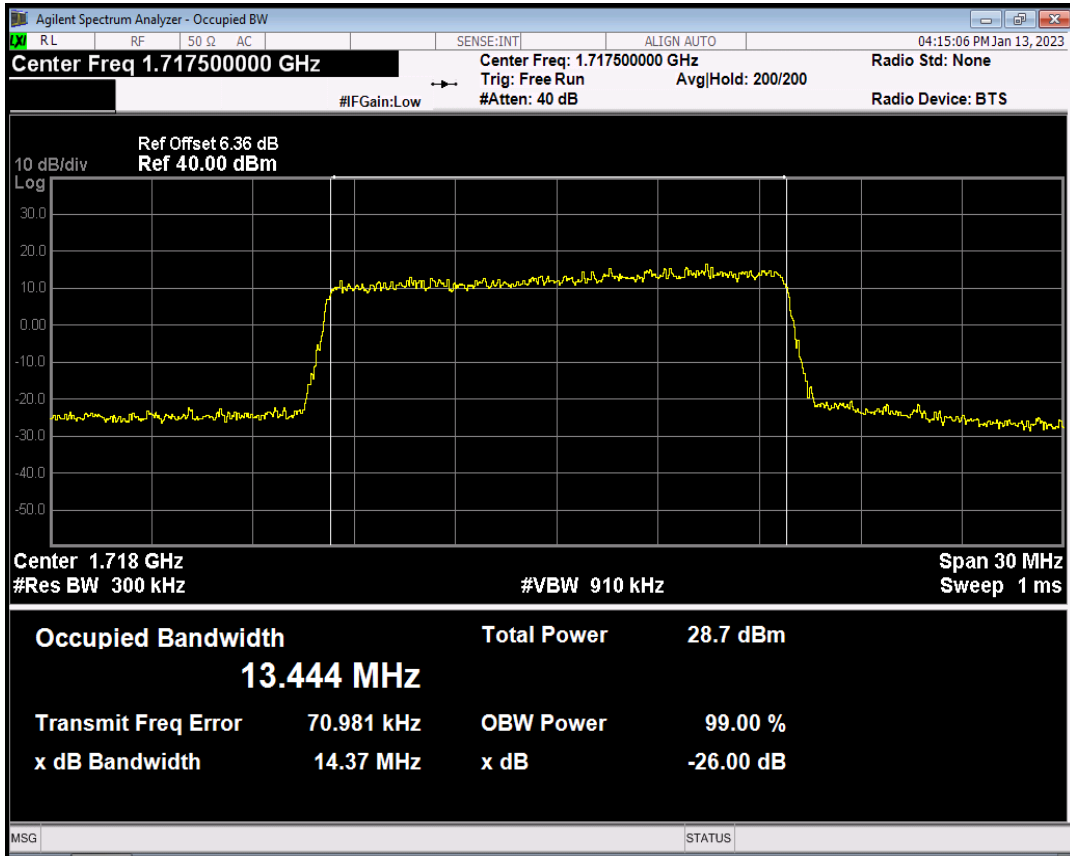


Band4 QAM16 BW=10MHz Channel=20350 RB Size=50 Position=#0

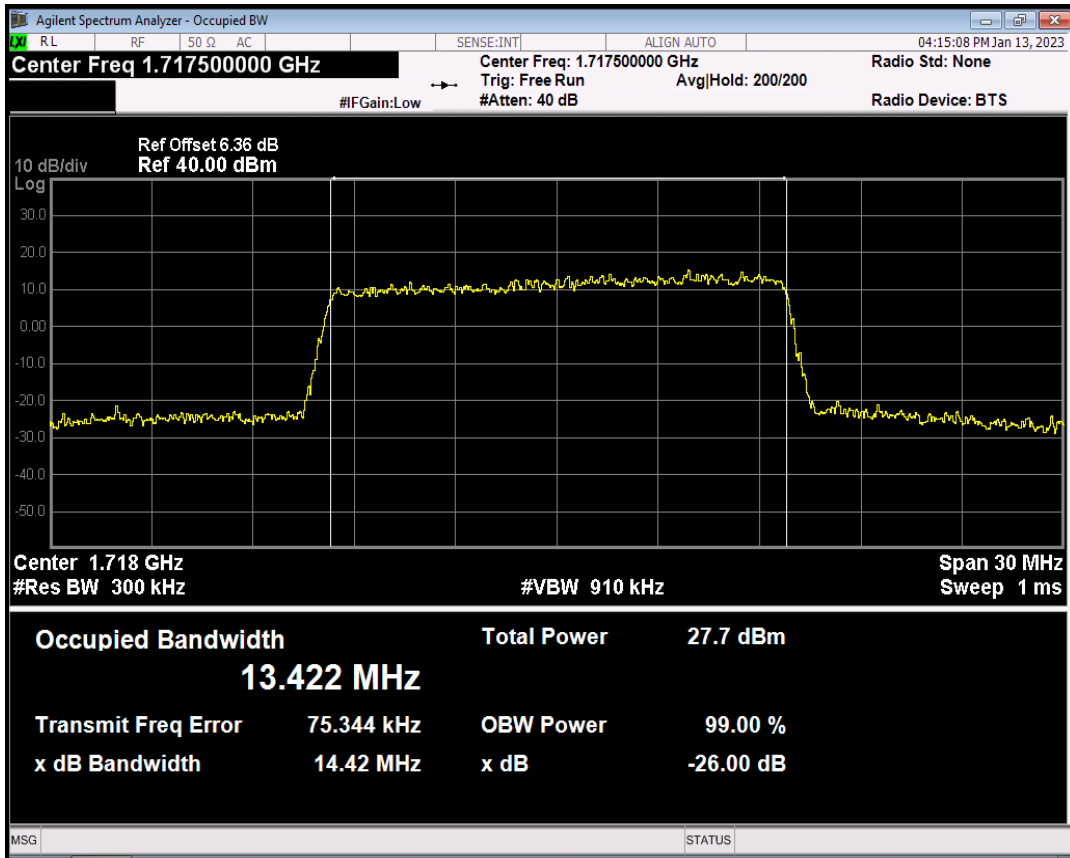




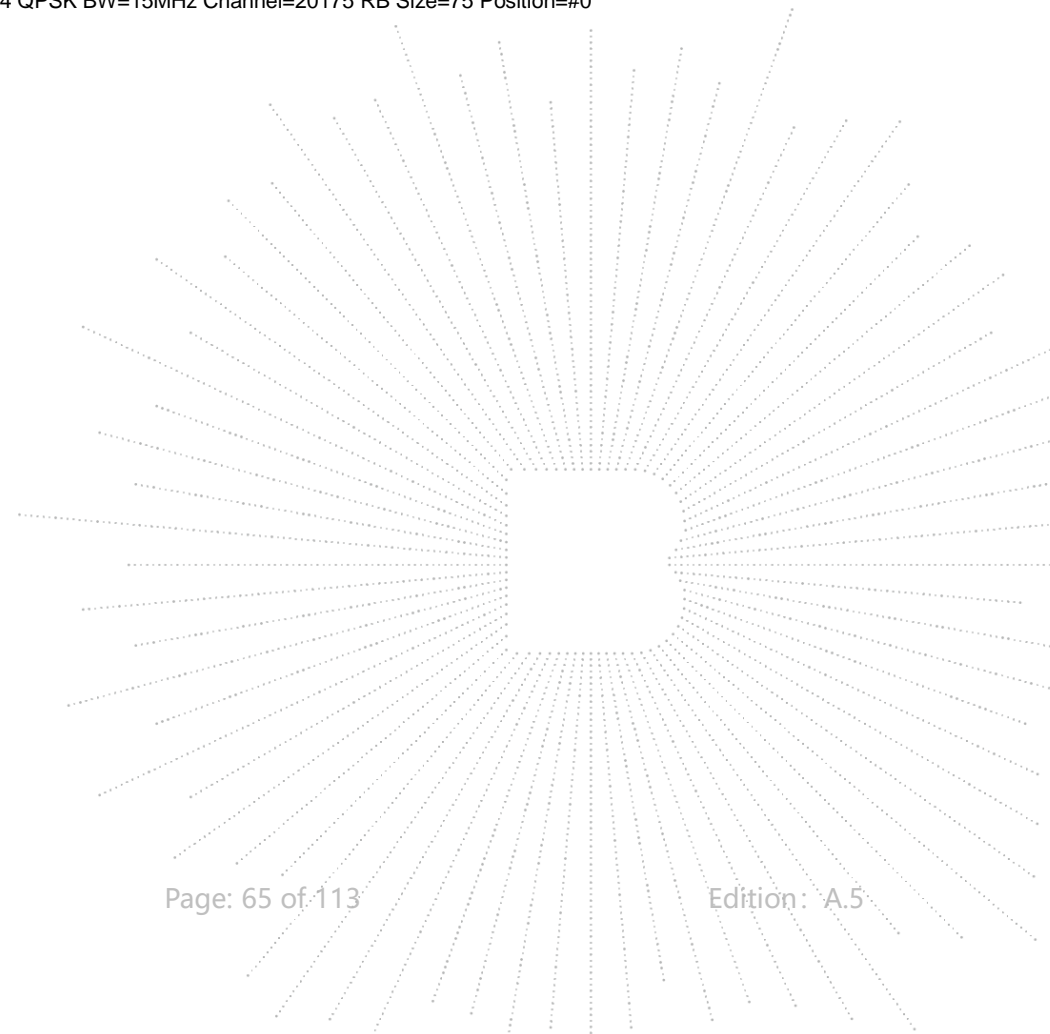
Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0

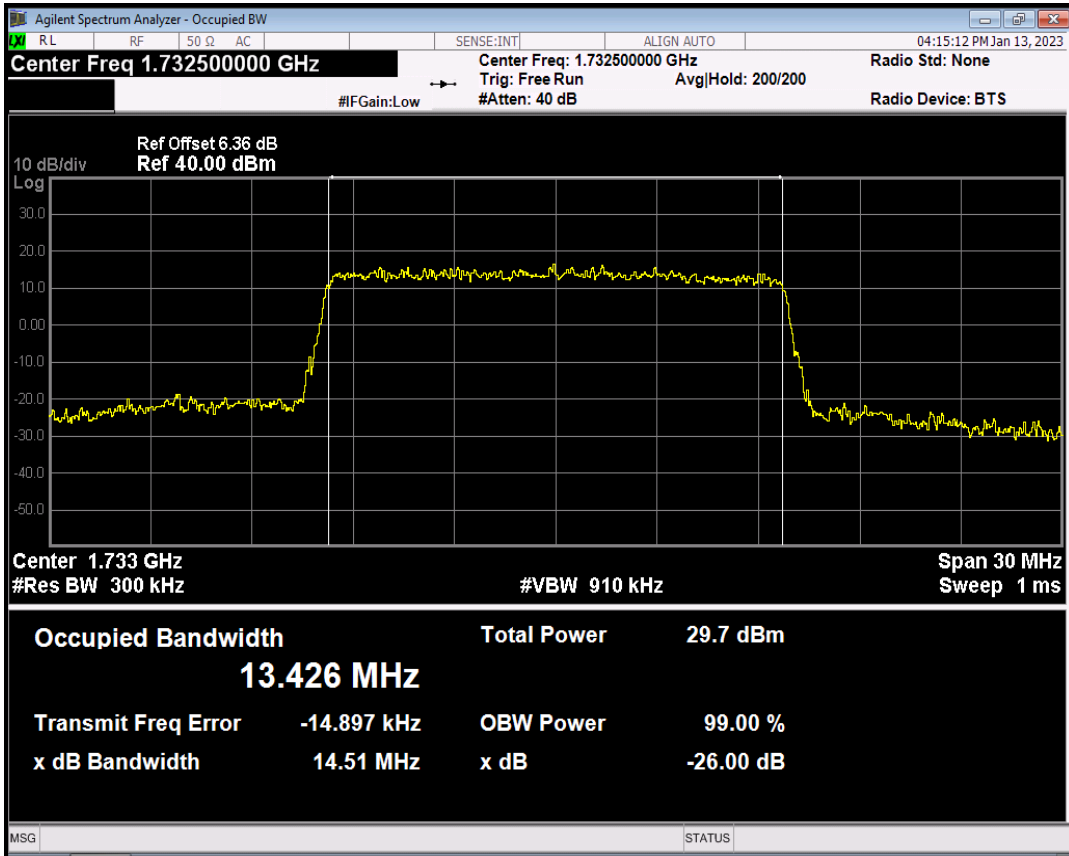


Band4 QAM16 BW=15MHz Channel=20025 RB Size=75 Position=#0

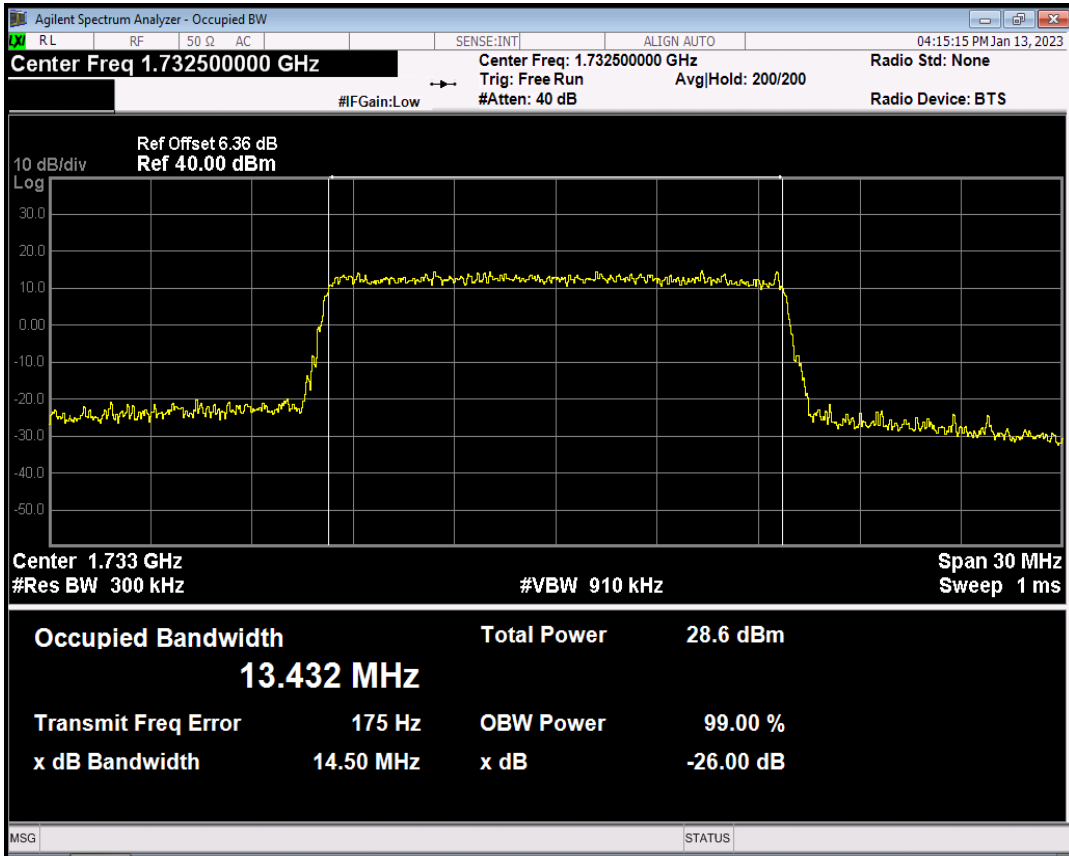


Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0

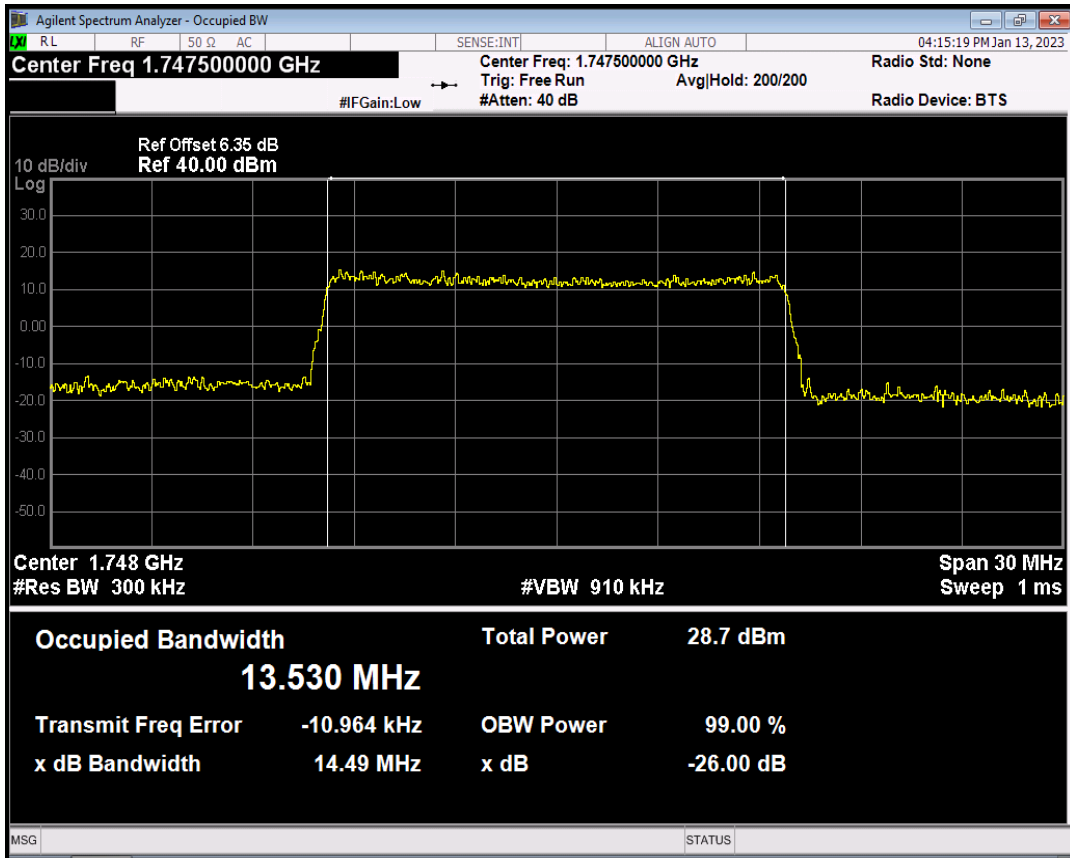




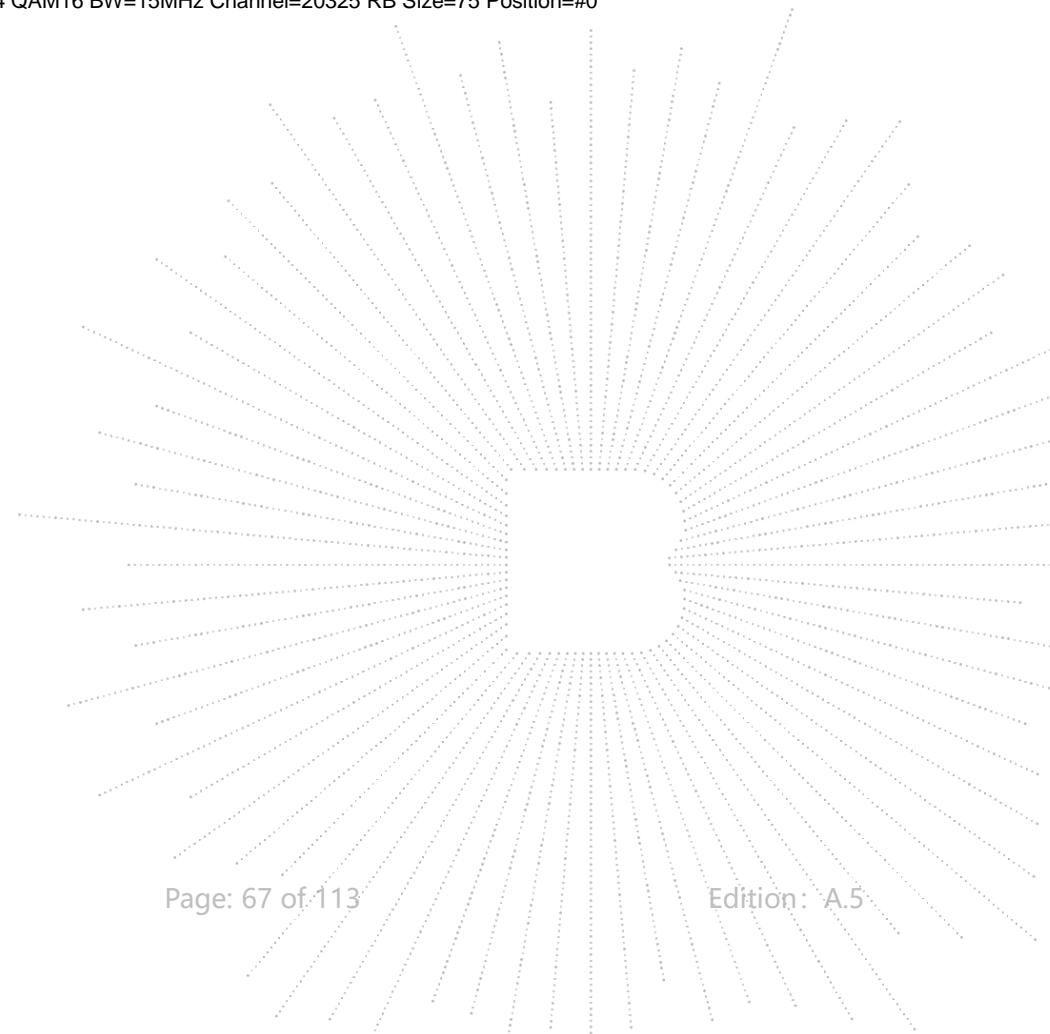
Band4 QAM16 BW=15MHz Channel=20175 RB Size=75 Position=#0

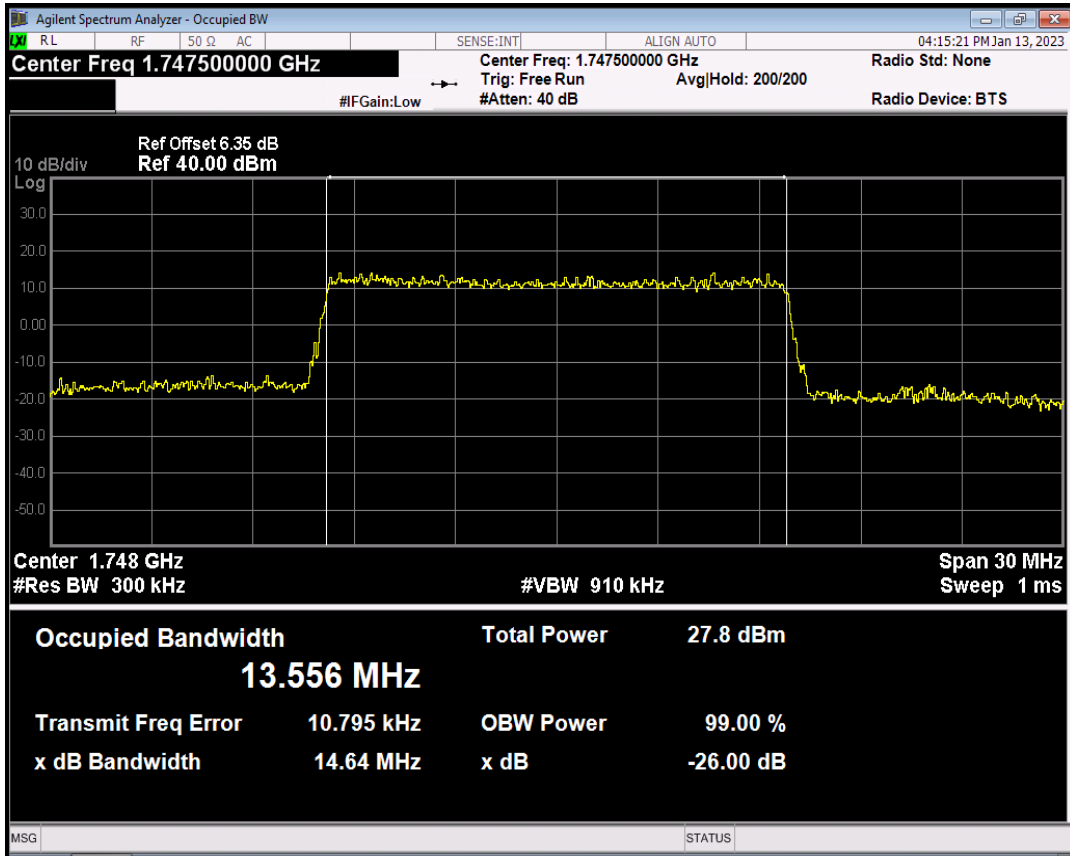


Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0

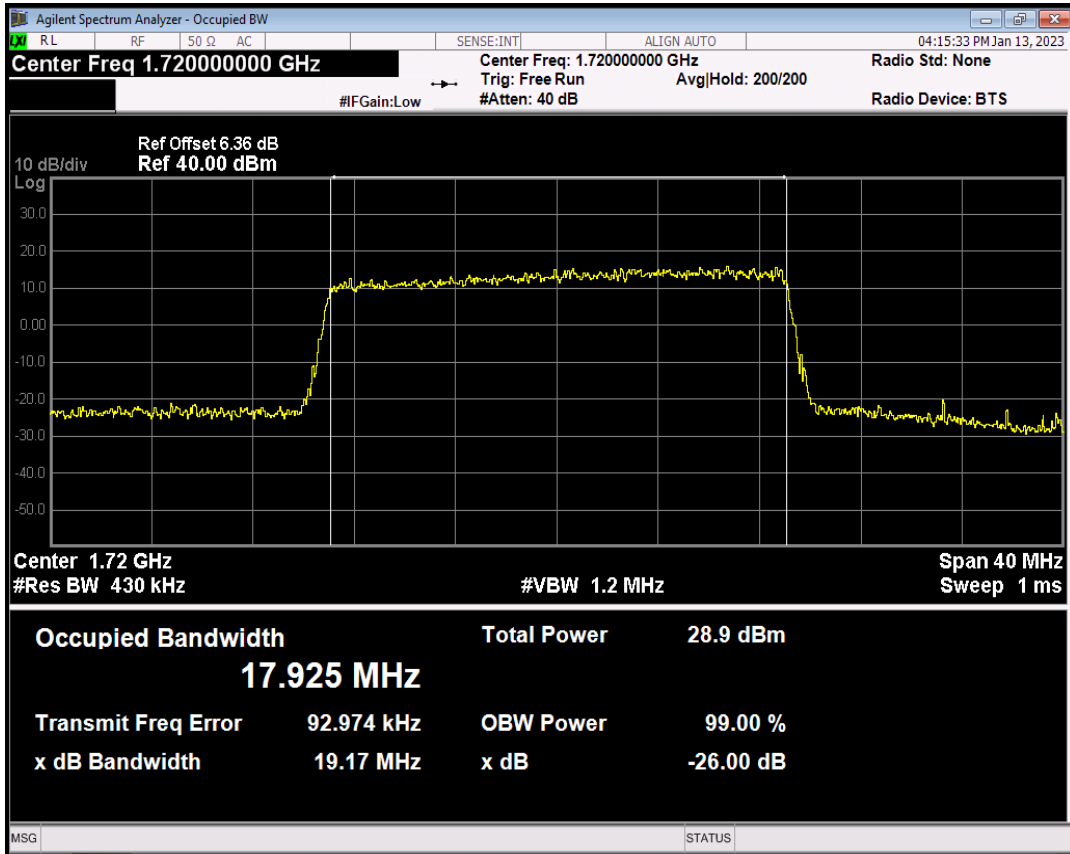


Band4 QAM16 BW=15MHz Channel=20325 RB Size=75 Position=#0



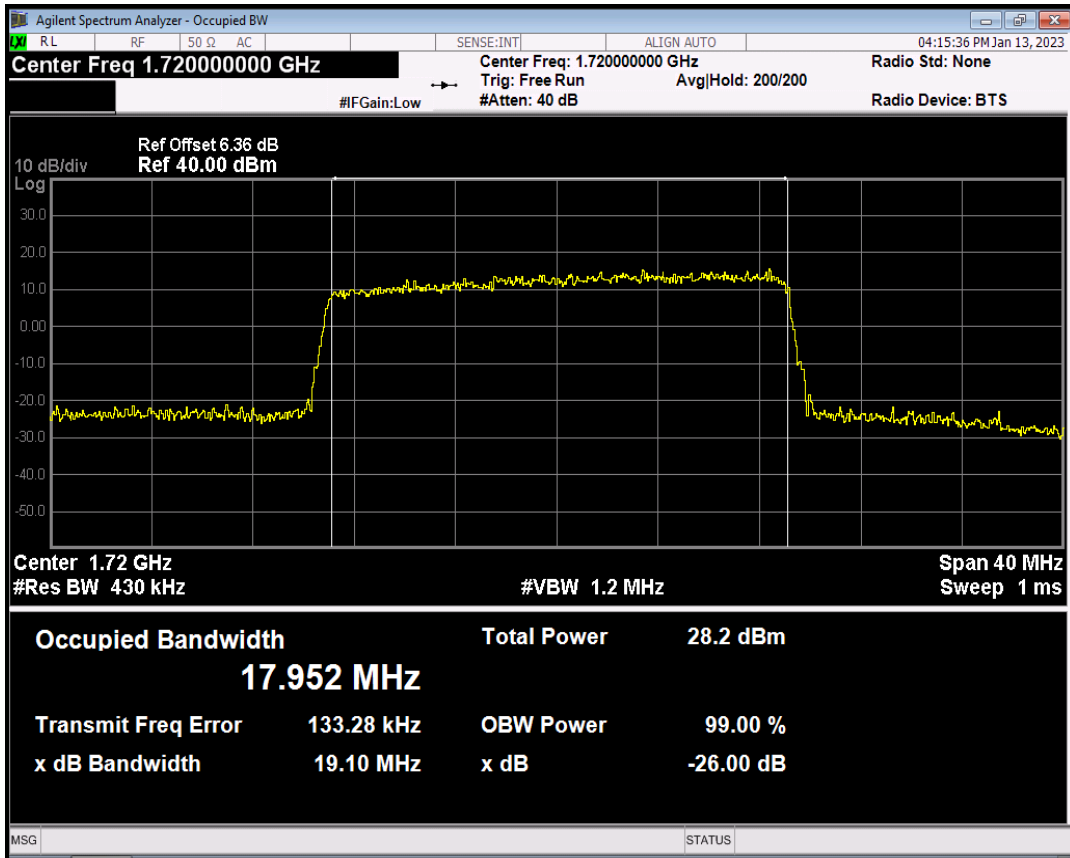


Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0

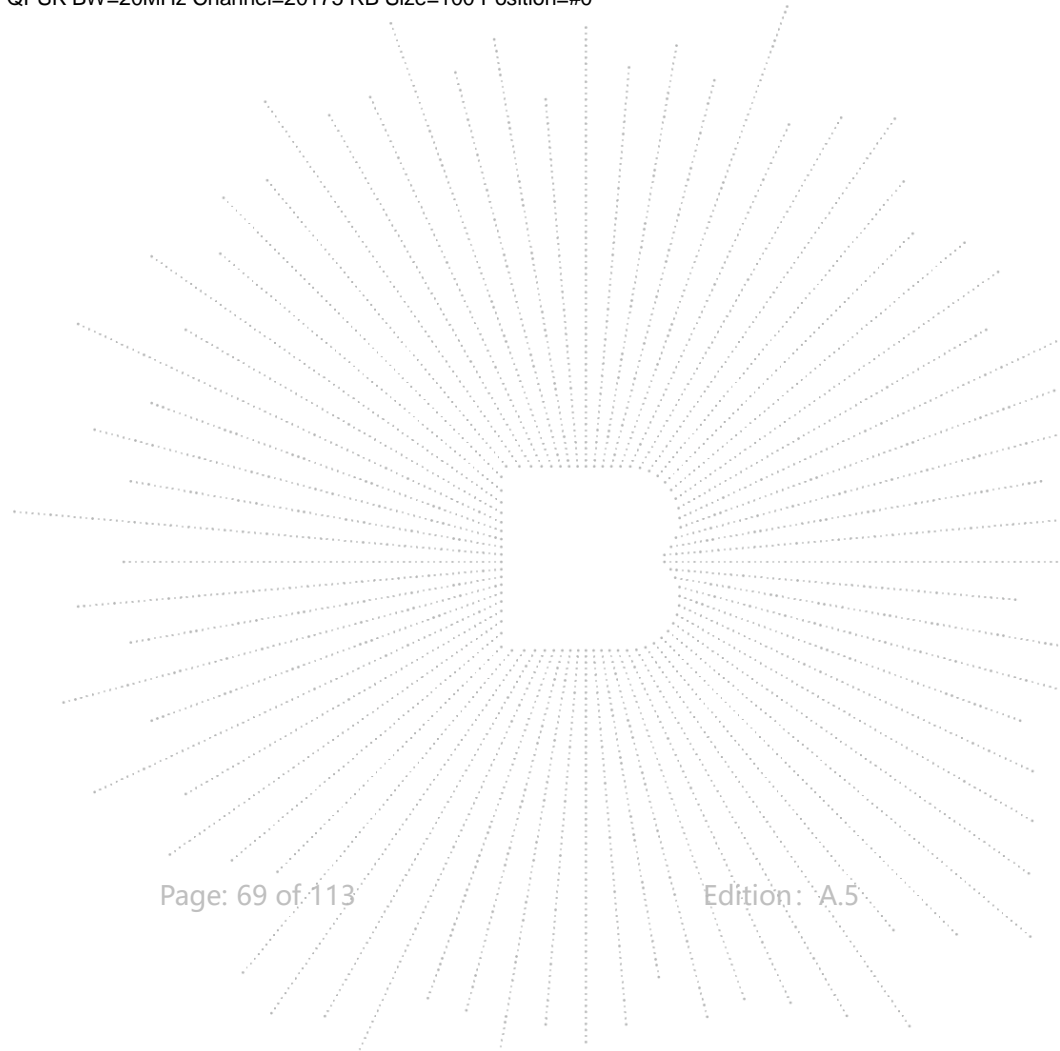


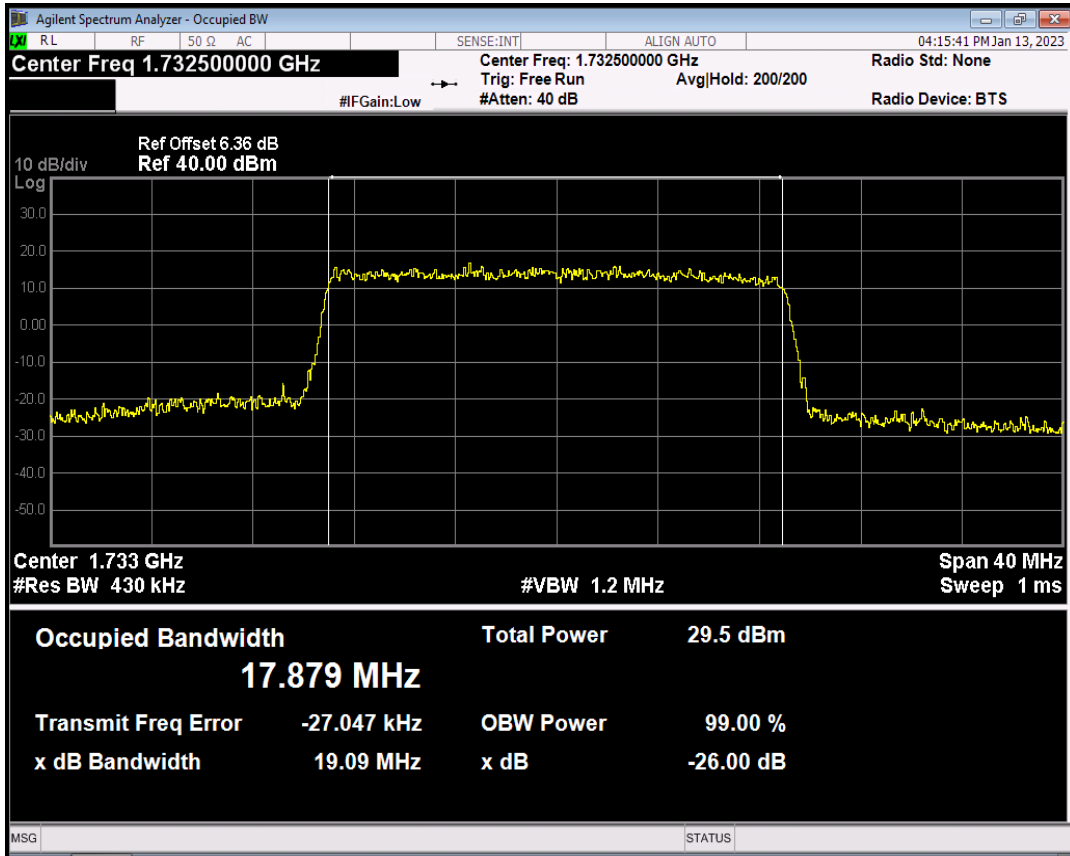


Band4 QAM16 BW=20MHz Channel=20050 RB Size=100 Position=#0

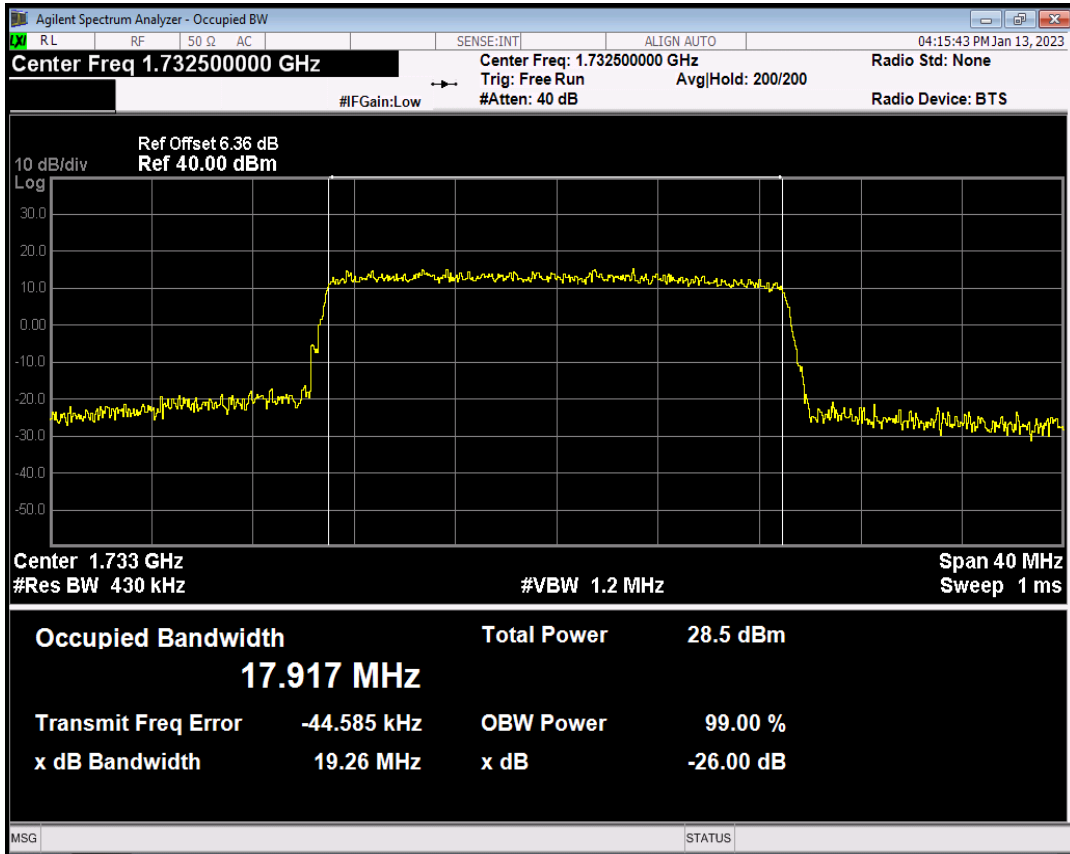


Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0

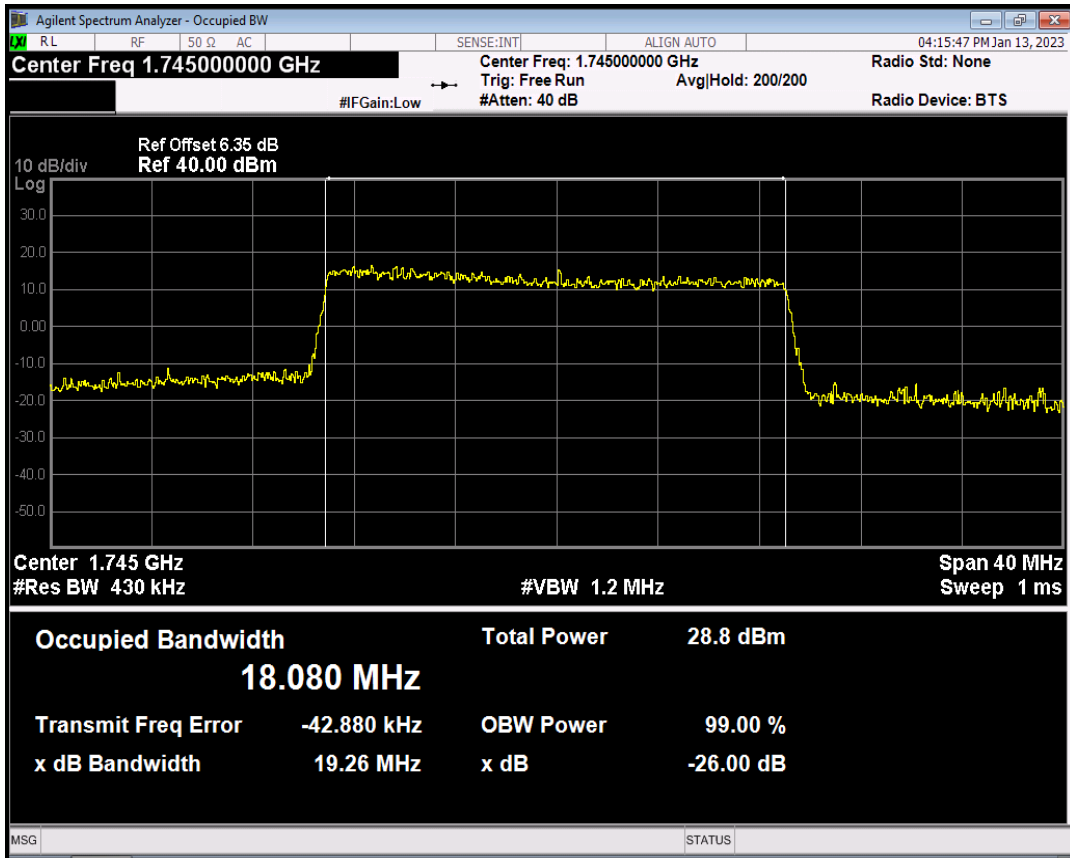




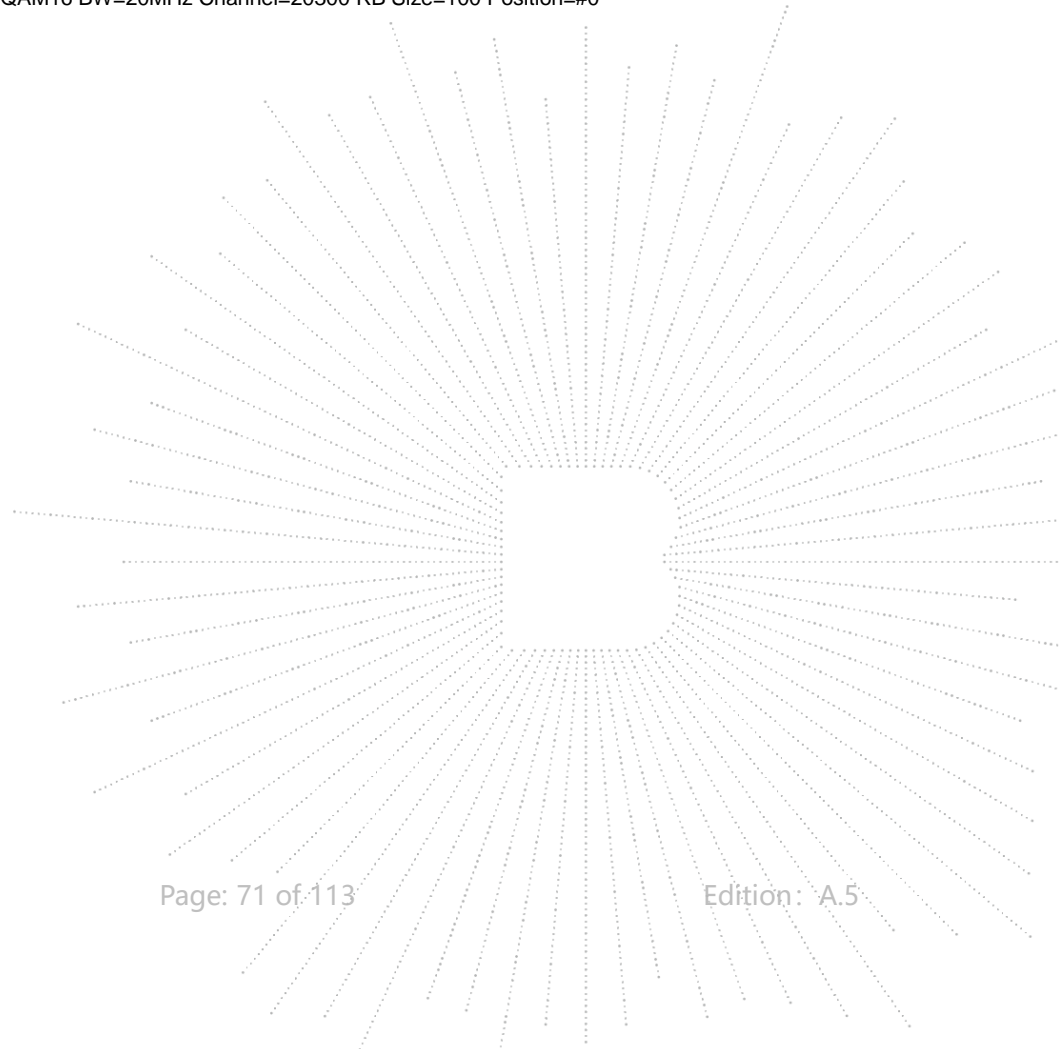
Band4 QAM16 BW=20MHz Channel=20175 RB Size=100 Position=#0

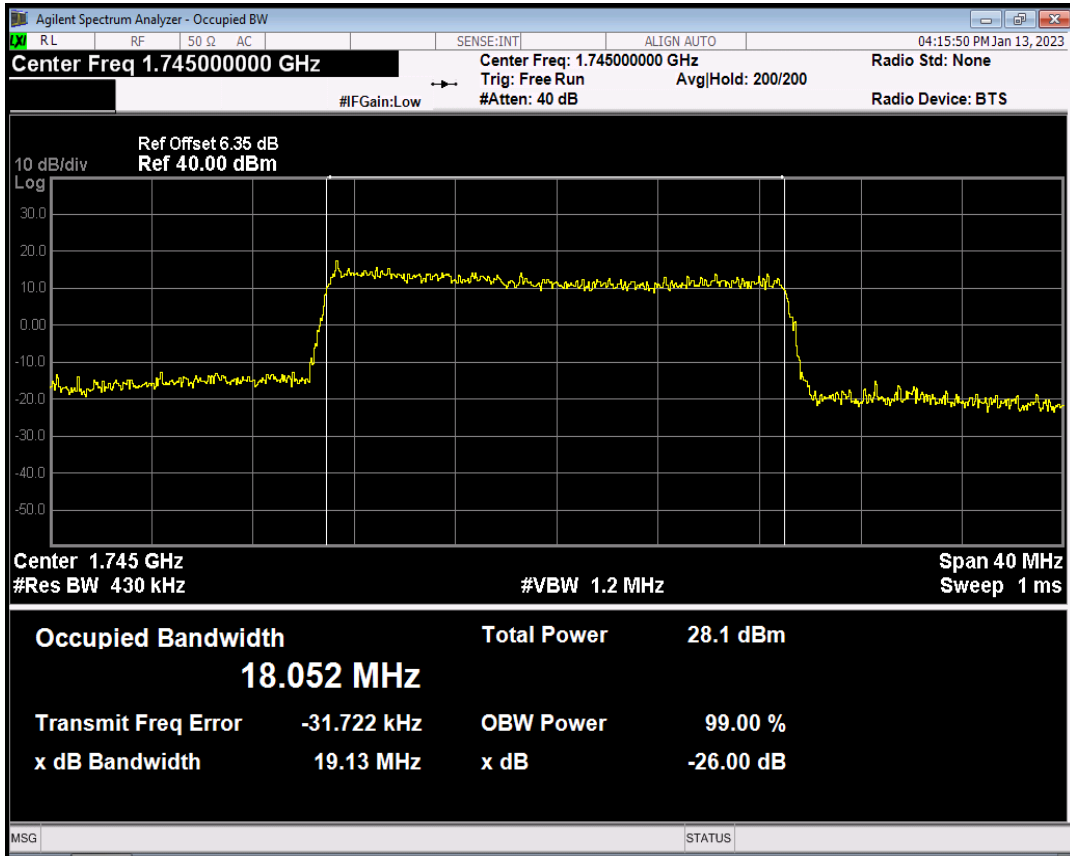


Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



Band4 QAM16 BW=20MHz Channel=20300 RB Size=100 Position=#0



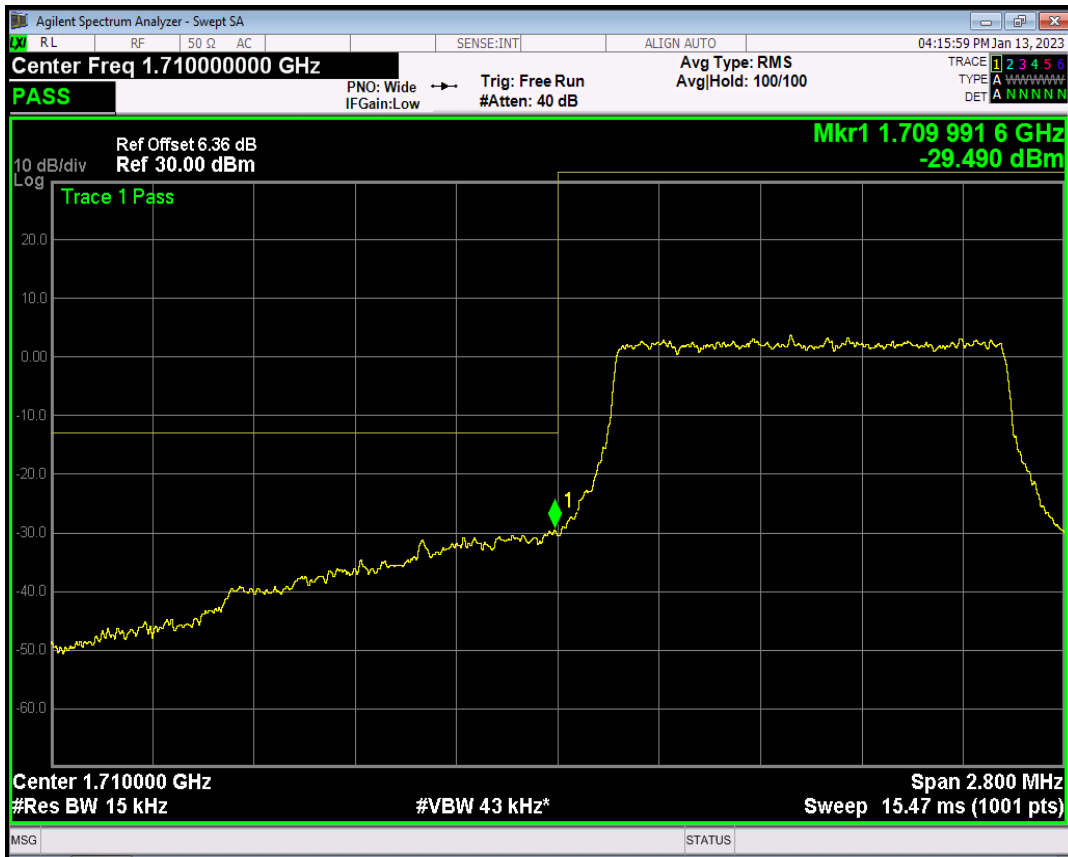


Appendix 5. Band edge

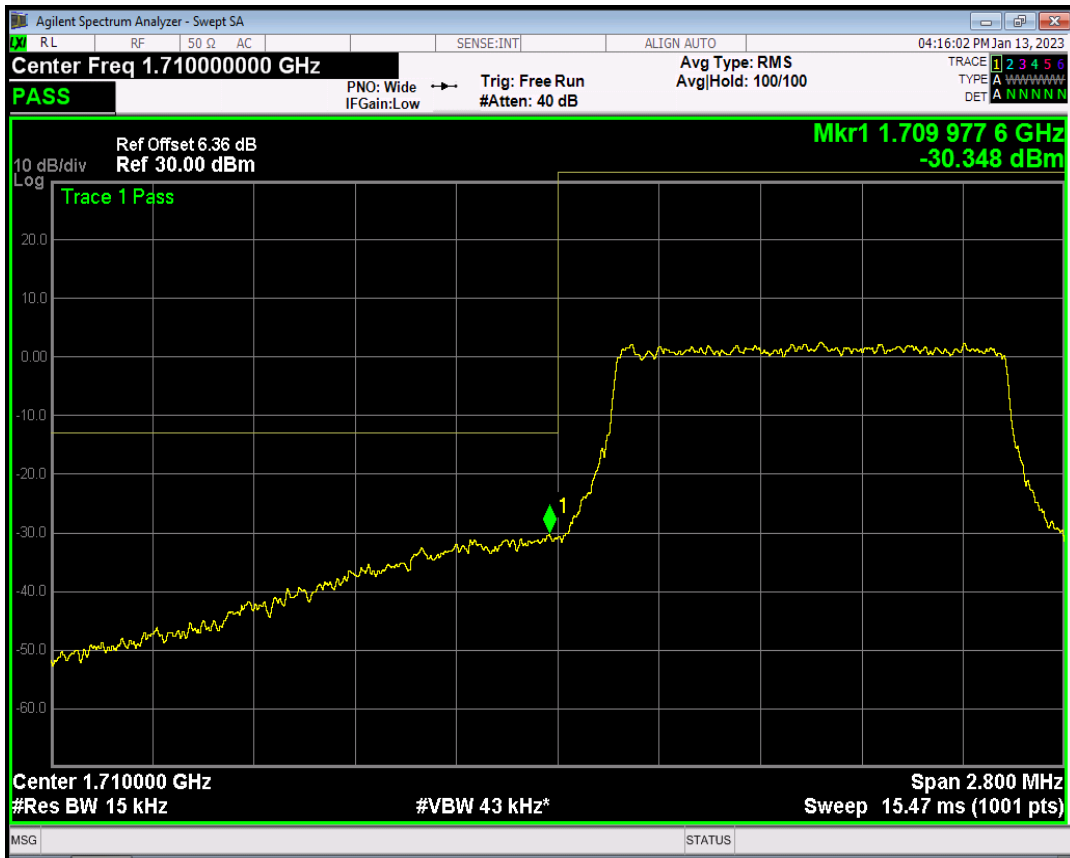
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	1709.99	-29.48	-13	PASS
Band4	1.4	19957	6	#0	QAM16	1709.98	-30.34	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1755.03	-27.98	-13	PASS
Band4	1.4	20393	6	#0	QAM16	1755.09	-28.60	-13	PASS
Band4	3	19965	15	#0	QPSK	1709.99	-28.36	-13	PASS
Band4	3	19965	15	#0	QAM16	1709.99	-29.56	-13	PASS
Band4	3	20385	15	#0	QPSK	1755.00	-27.05	-13	PASS
Band4	3	20385	15	#0	QAM16	1755.00	-27.78	-13	PASS
Band4	5	19975	25	#0	QPSK	1709.98	-31.02	-13	PASS
Band4	5	19975	25	#0	QAM16	1710.00	-31.63	-13	PASS
Band4	5	20375	25	#0	QPSK	1755.03	-28.34	-13	PASS
Band4	5	20375	25	#0	QAM16	1755.00	-29.36	-13	PASS
Band4	10	20000	50	#0	QPSK	1710.00	-33.15	-13	PASS
Band4	10	20000	50	#0	QAM16	1709.88	-33.85	-13	PASS
Band4	10	20350	50	#0	QPSK	1755.06	-28.70	-13	PASS
Band4	10	20350	50	#0	QAM16	1755.00	-29.42	-13	PASS

Band4	15	20025	75	#0	QPSK	1707.69	-33.85	-13	PASS
Band4	15	20025	75	#0	QAM16	1703.97	-33.58	-13	PASS
Band4	15	20325	75	#0	QPSK	1757.85	-27.98	-13	PASS
Band4	15	20325	75	#0	QAM16	1757.49	-29.32	-13	PASS
Band4	20	20050	100	#0	QPSK	1700.64	-33.89	-13	PASS
Band4	20	20050	100	#0	QAM16	1706.48	-34.66	-13	PASS
Band4	20	20300	100	#0	QPSK	1755.04	-30.05	-13	PASS
Band4	20	20300	100	#0	QAM16	1756.48	-31.16	-13	PASS

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



Band4 QAM16 BW=1.4MHz Channel=19957 RB Size=6 Position=#0



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

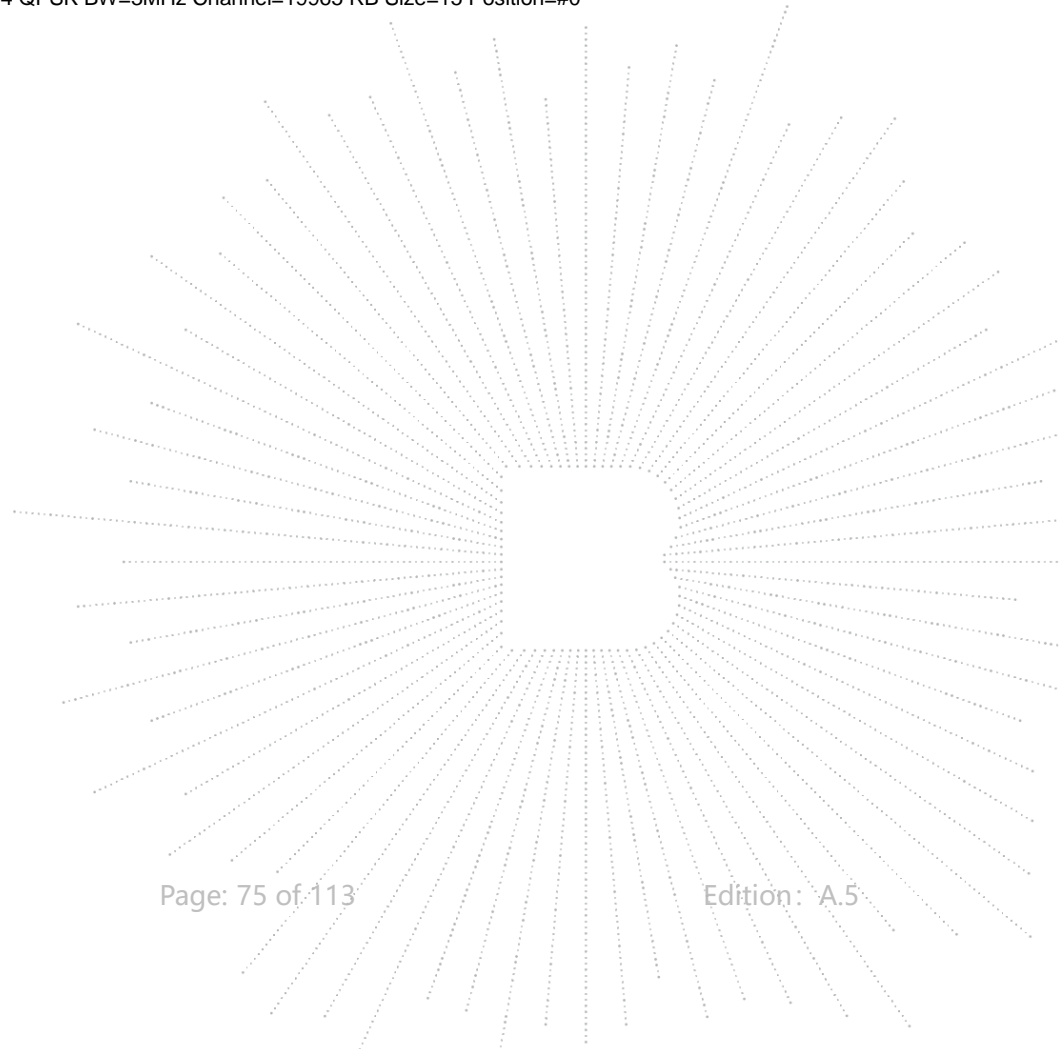


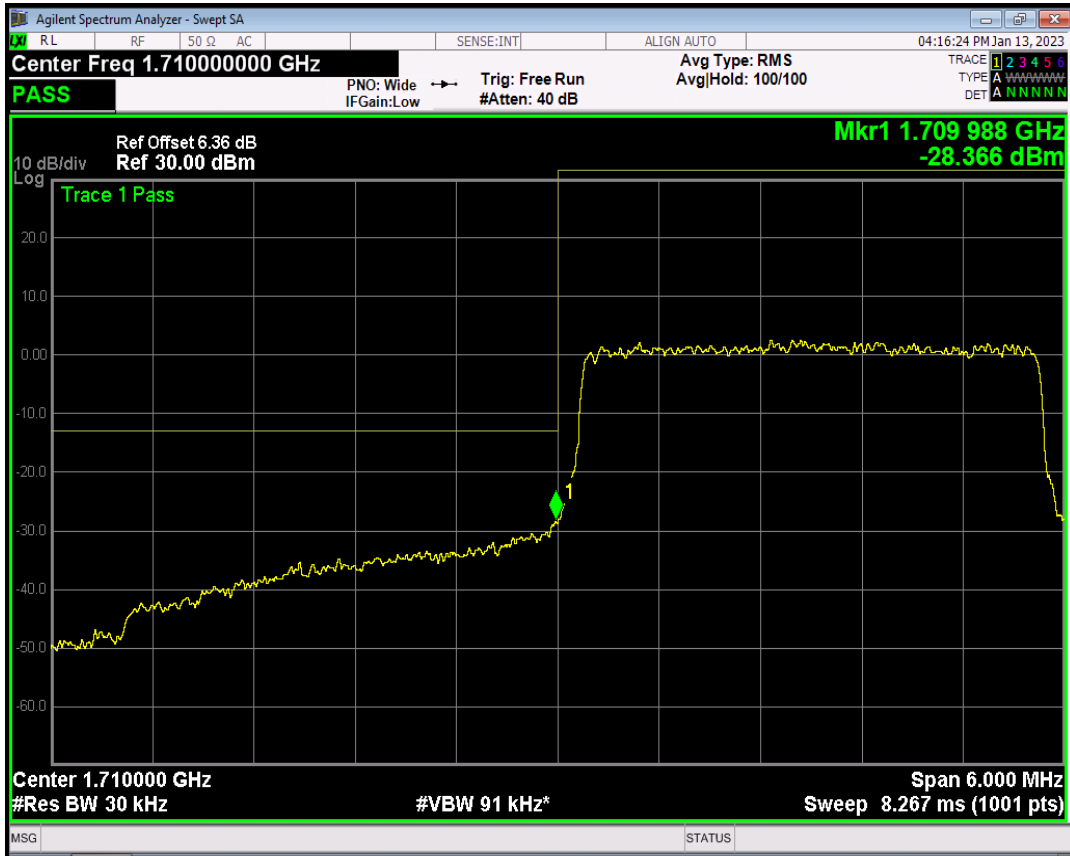


Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0

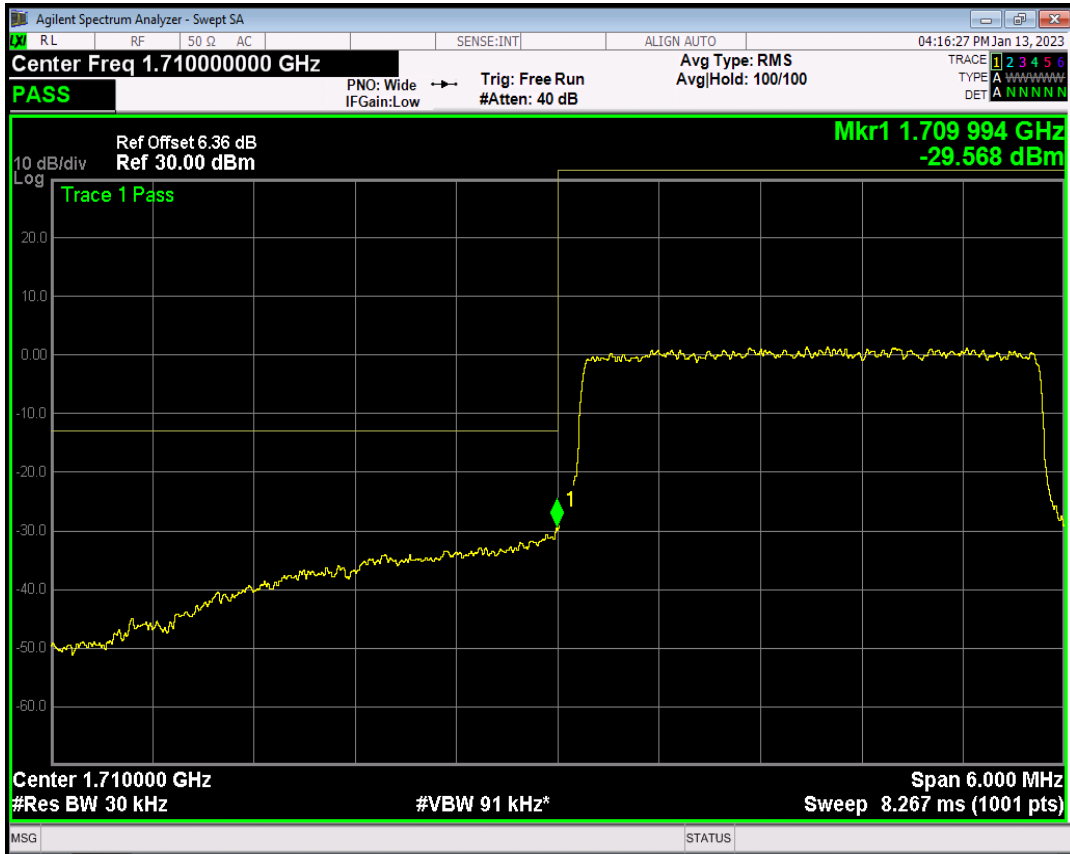


Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



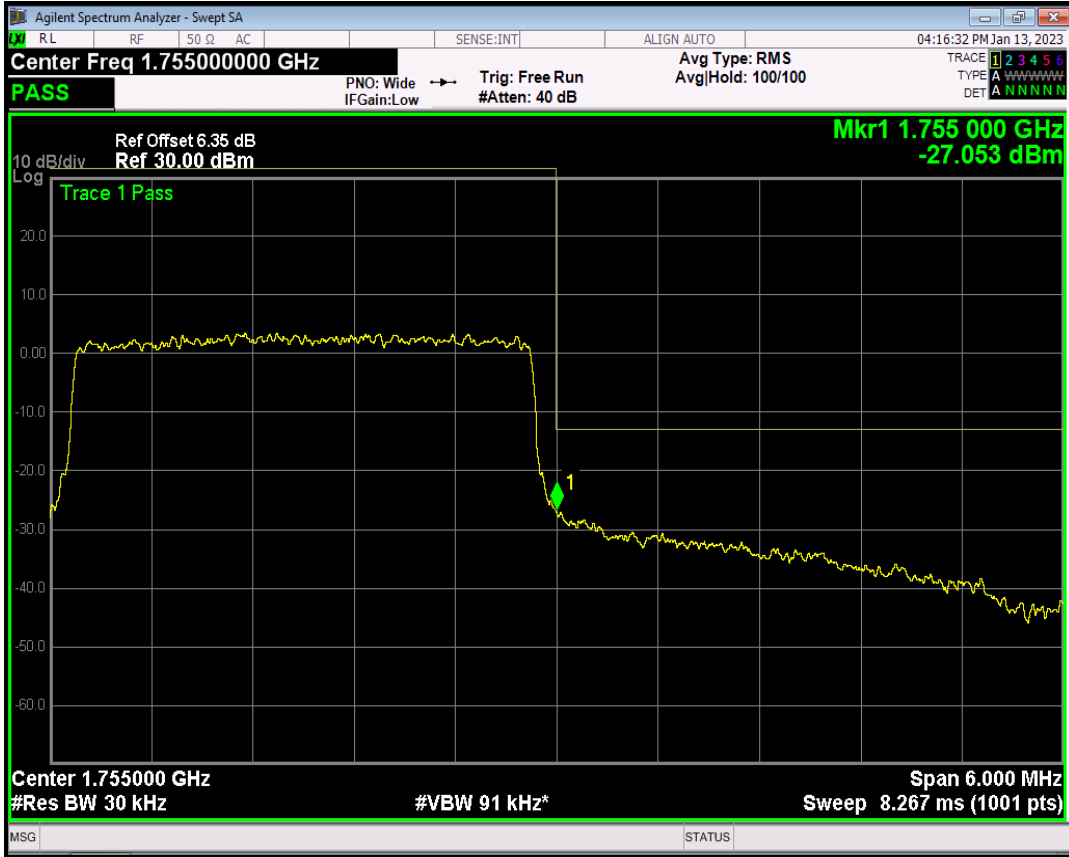


Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0

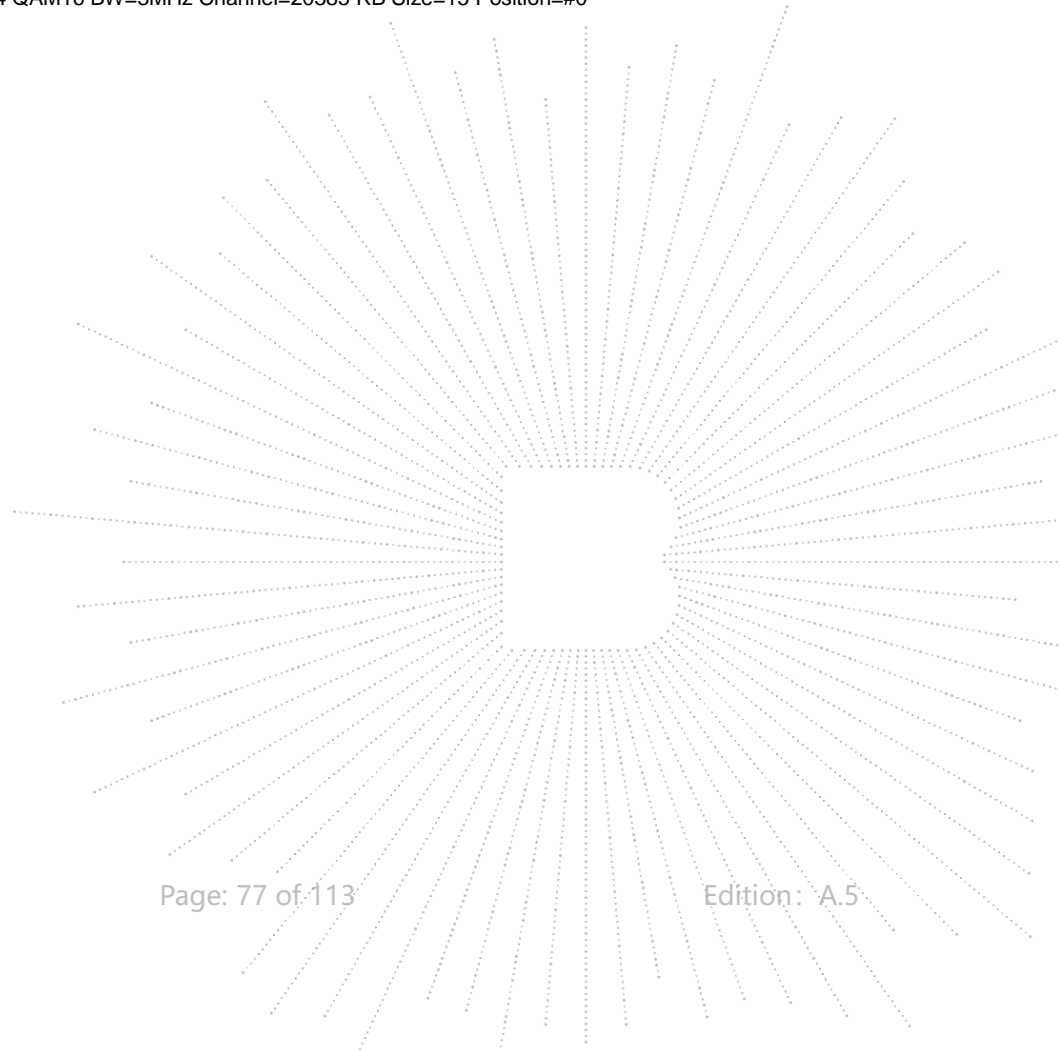


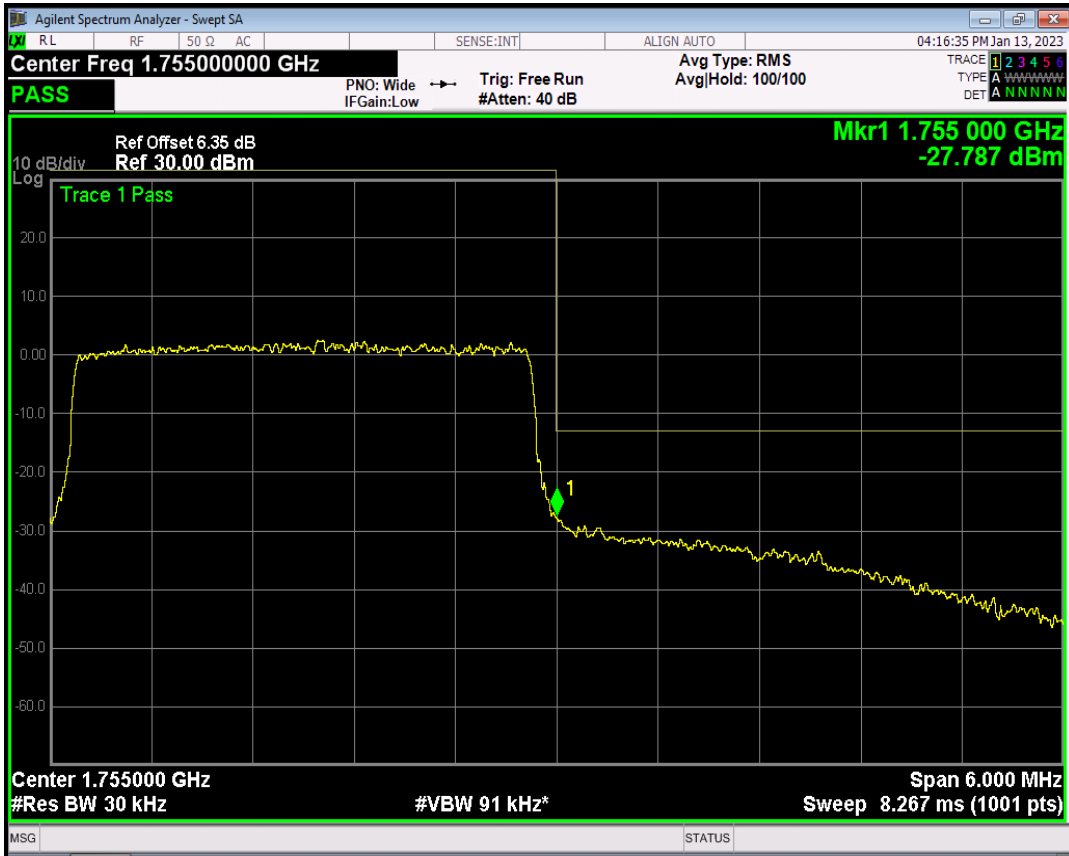


Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

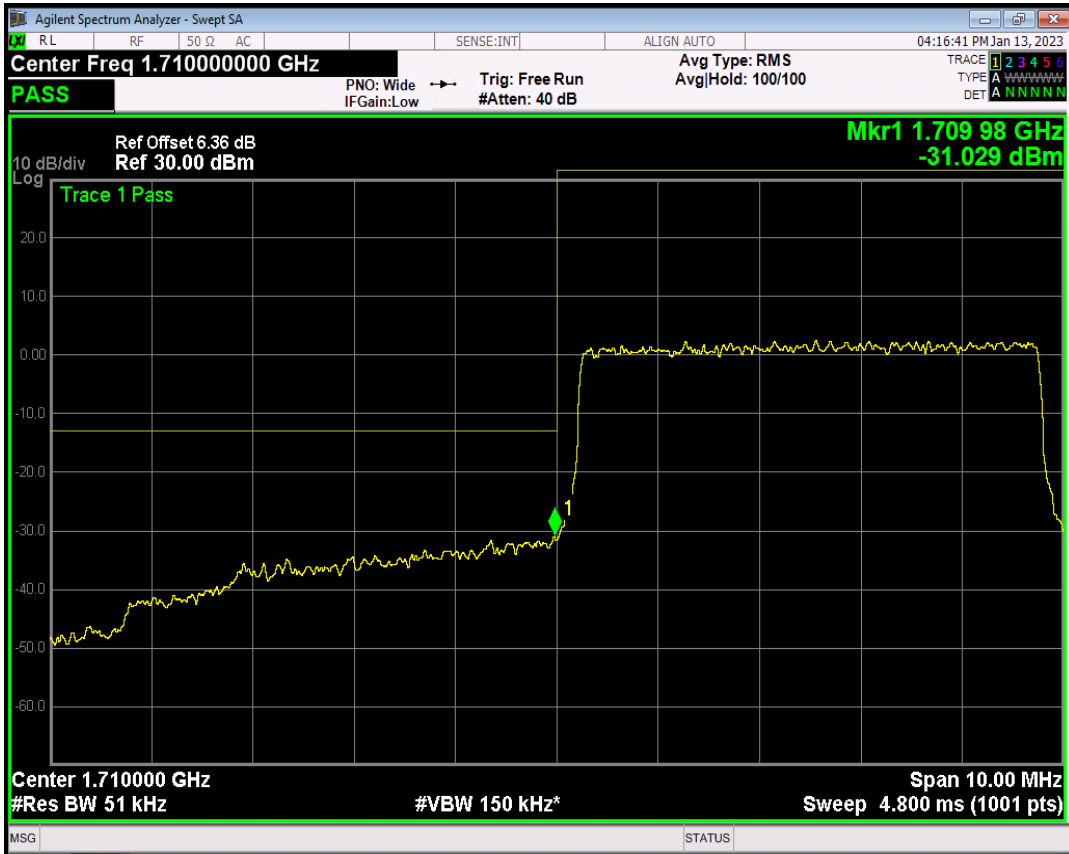


Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0



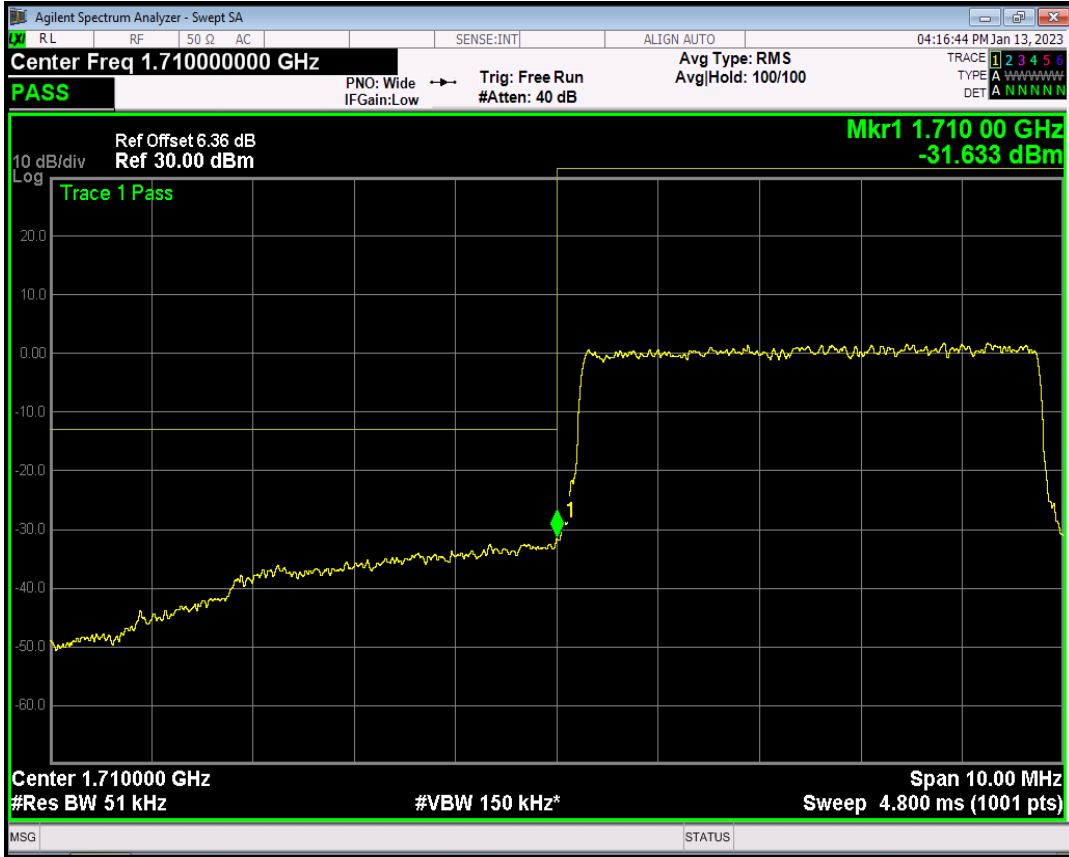


Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0

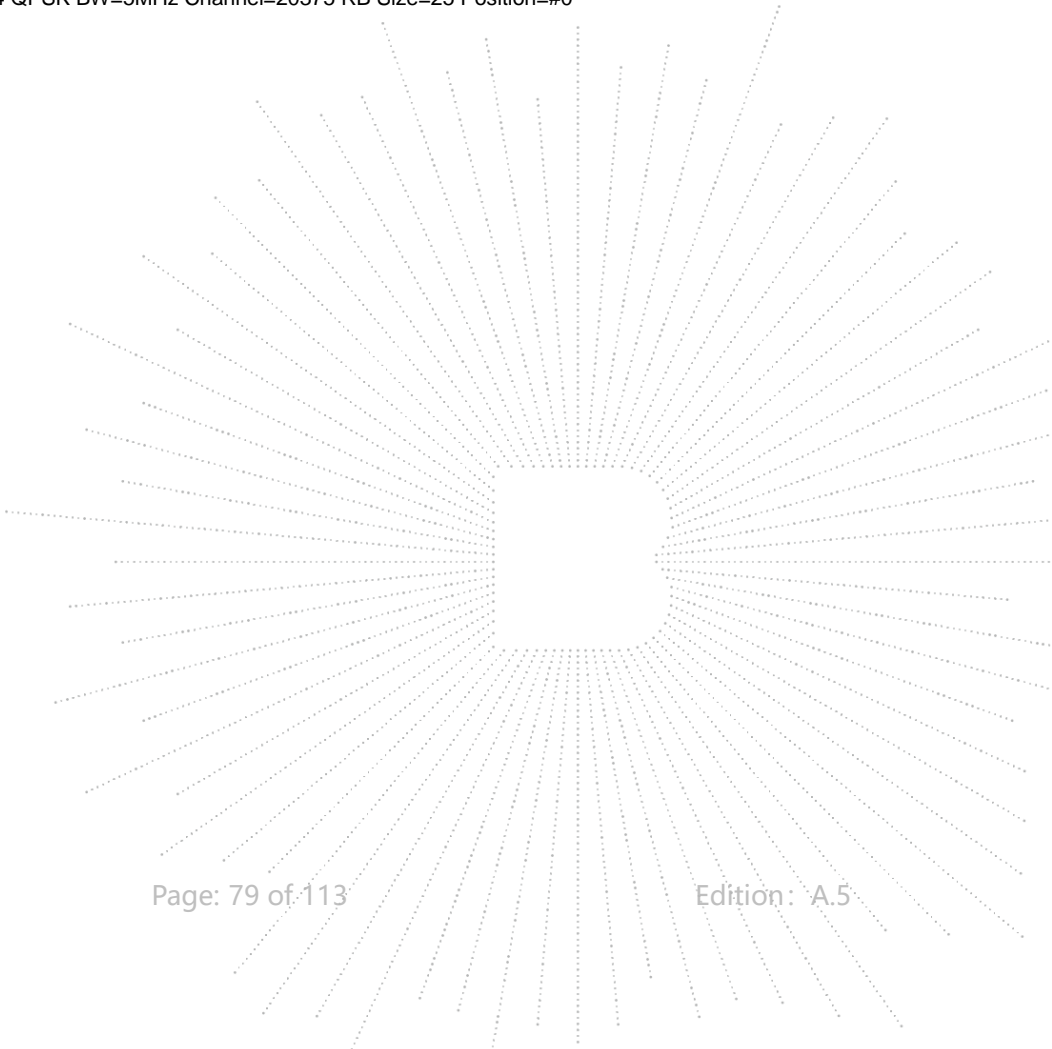


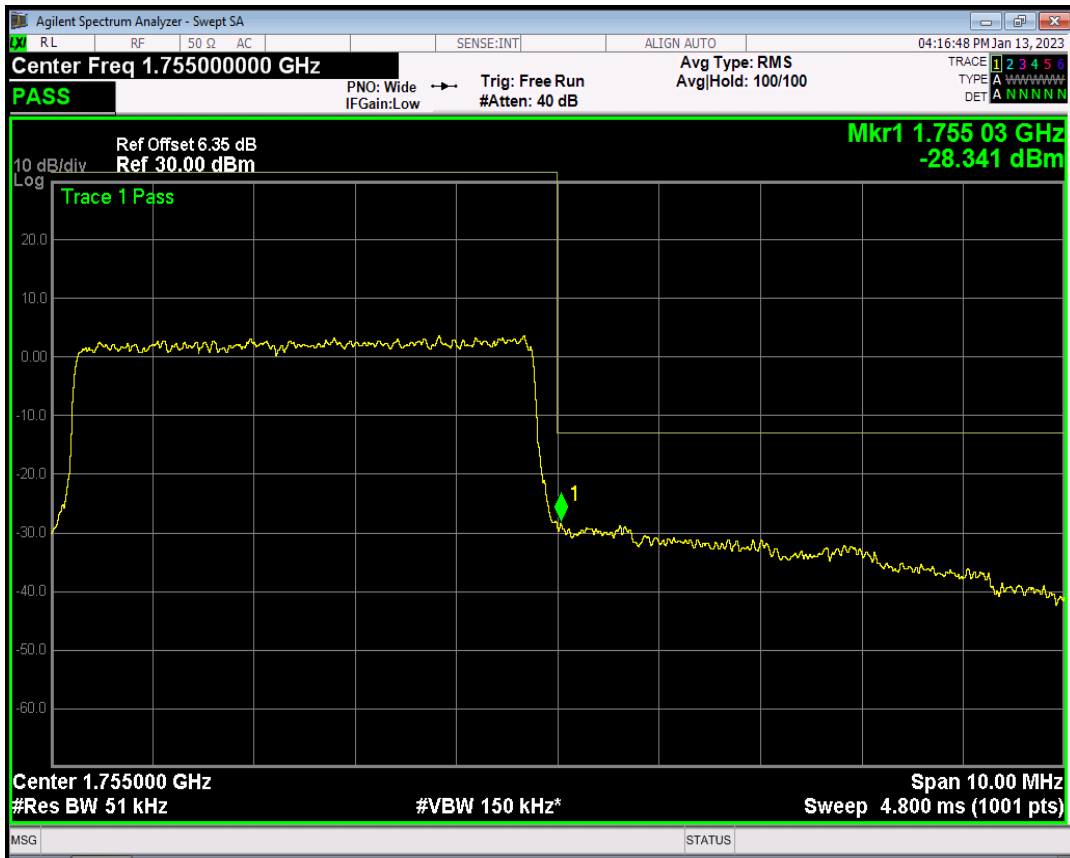


Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0

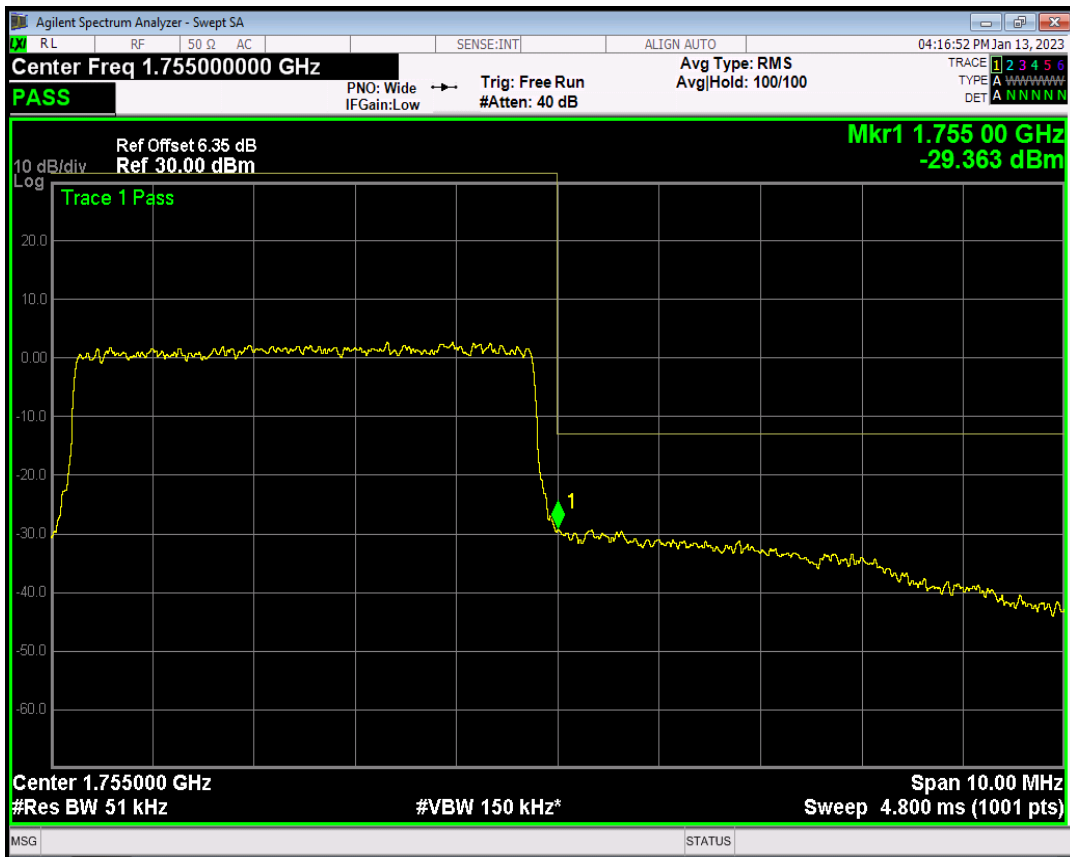


Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



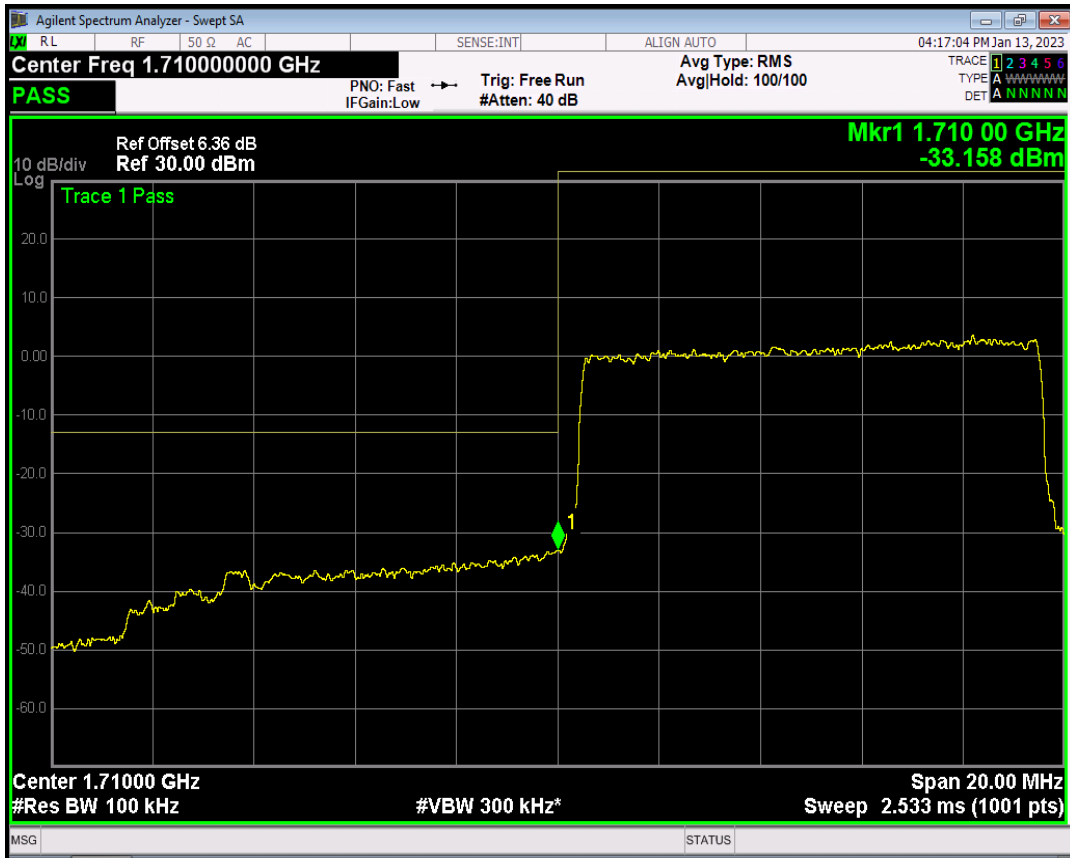


Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0

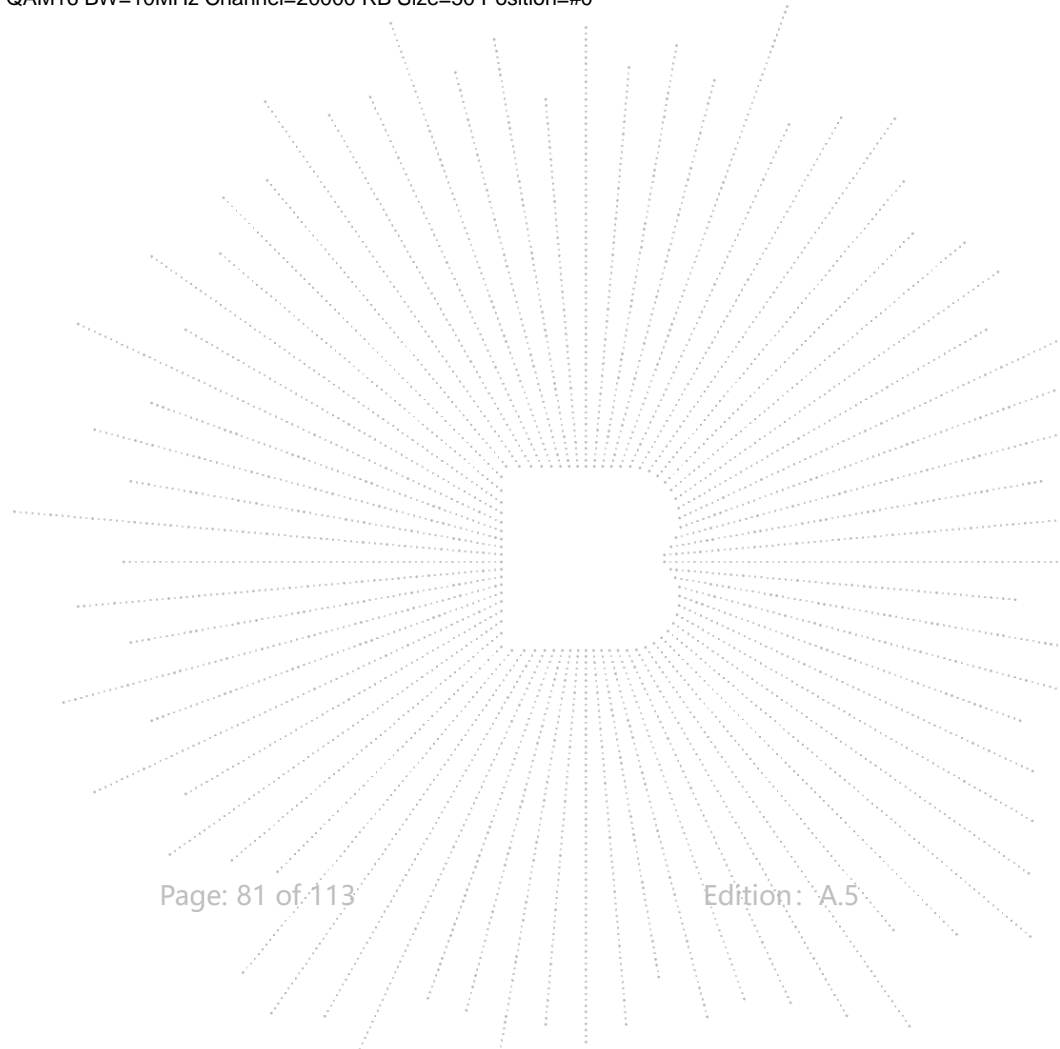


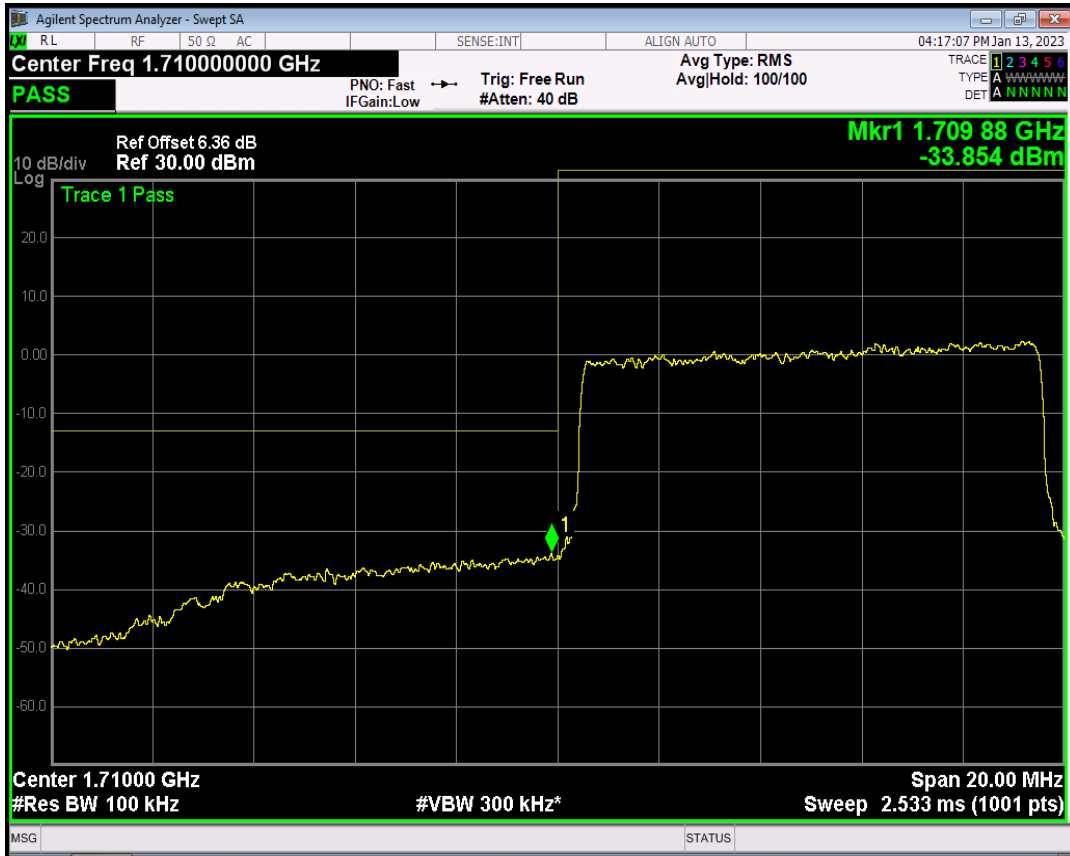


Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0

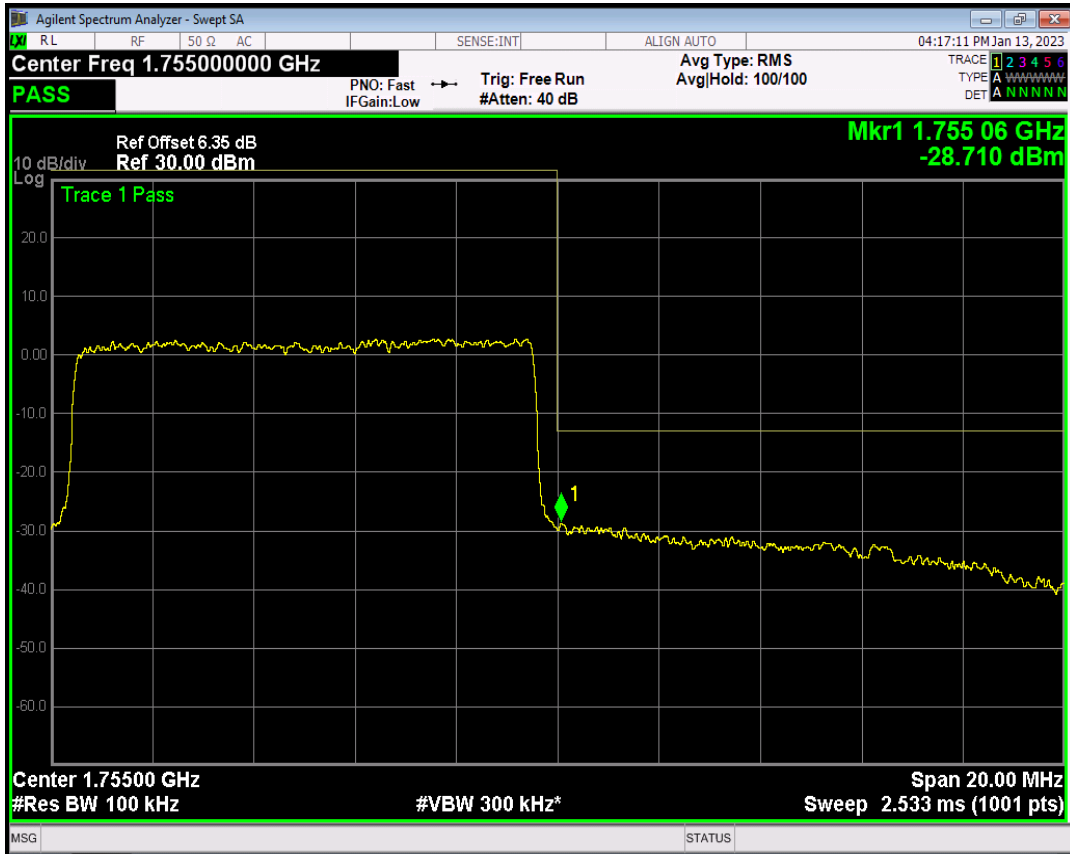


Band4 QAM16 BW=10MHz Channel=20000 RB Size=50 Position=#0



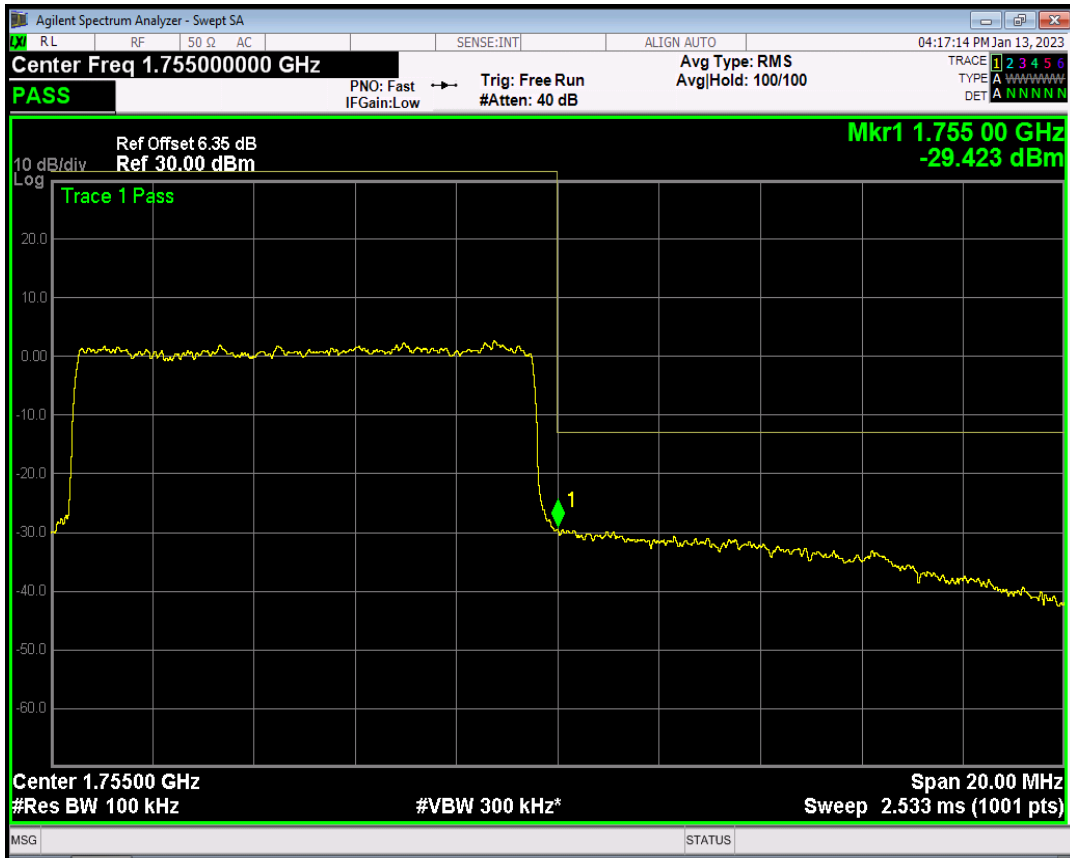


Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

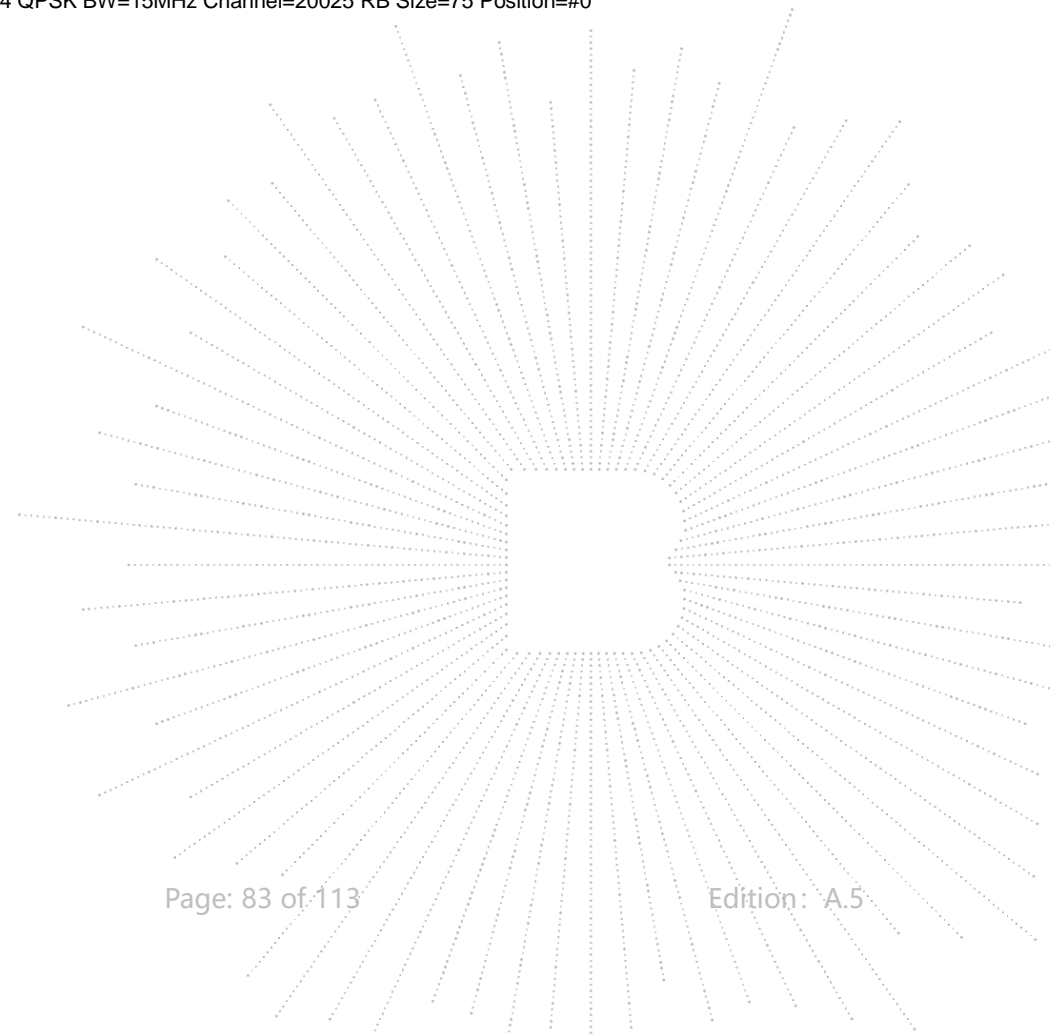


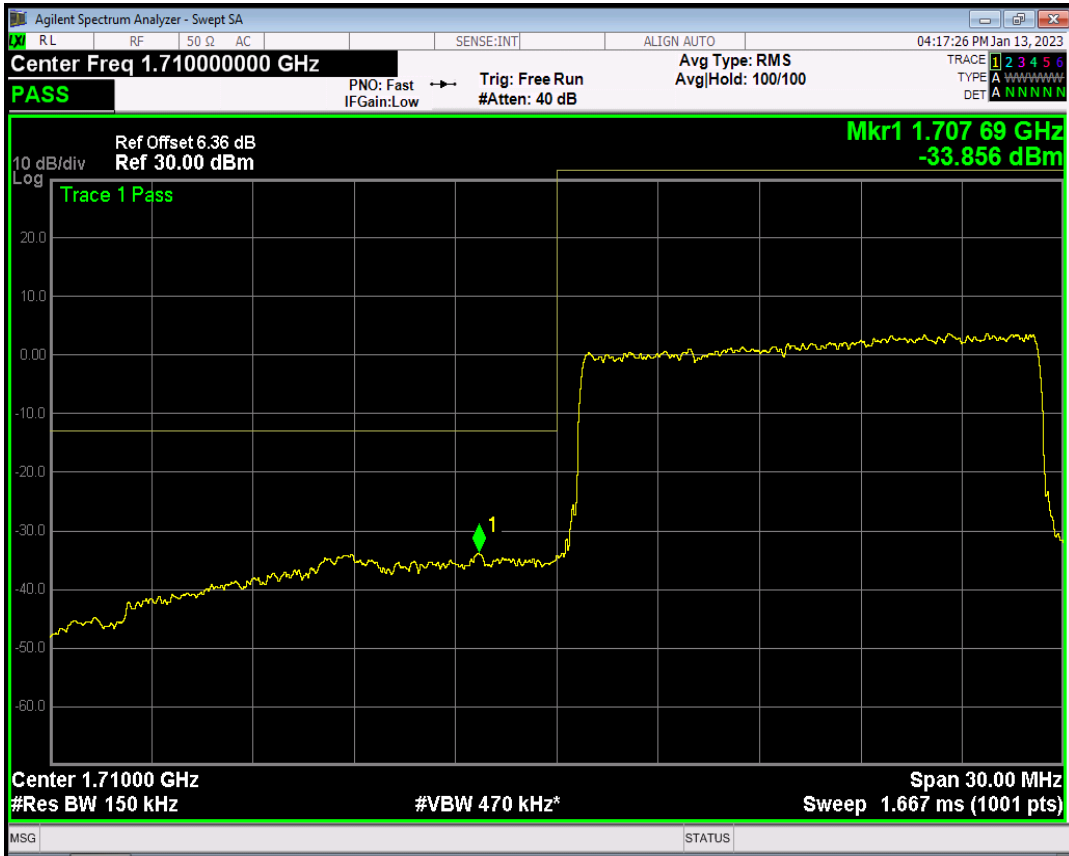


Band4 QAM16 BW=10MHz Channel=20350 RB Size=50 Position=#0

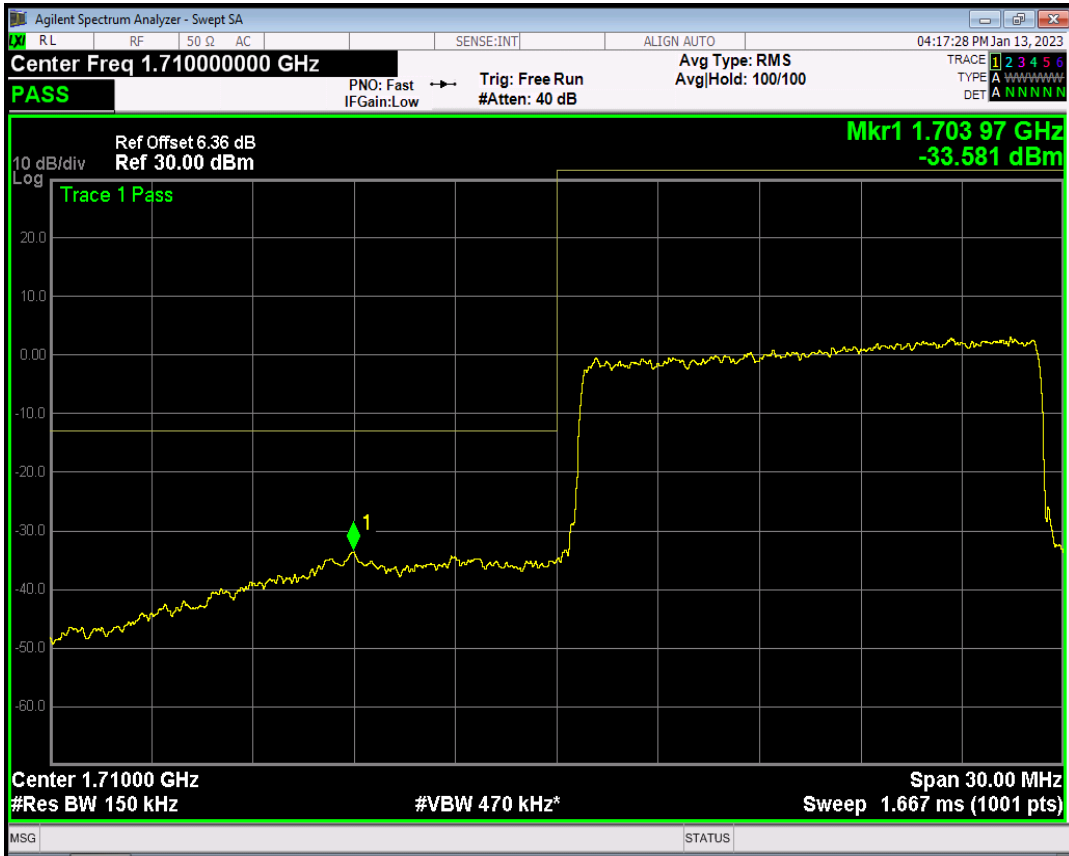


Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



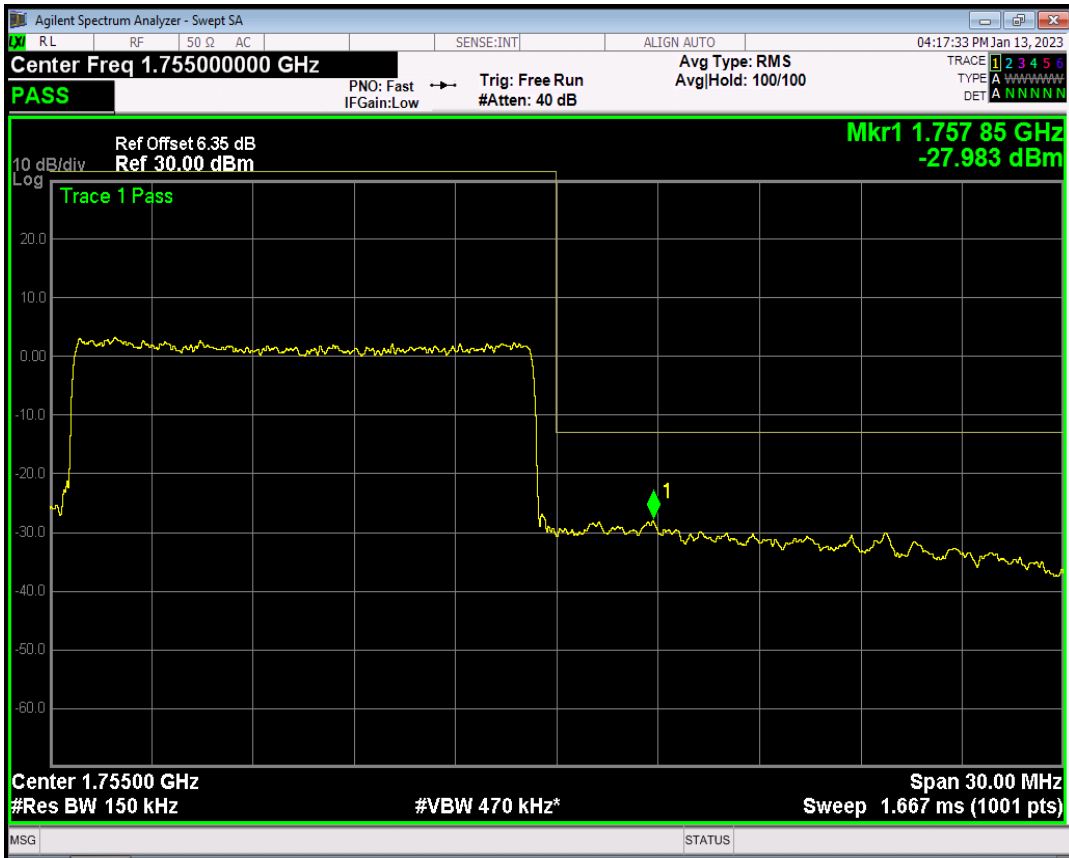


Band4 QAM16 BW=15MHz Channel=20025 RB Size=75 Position=#0

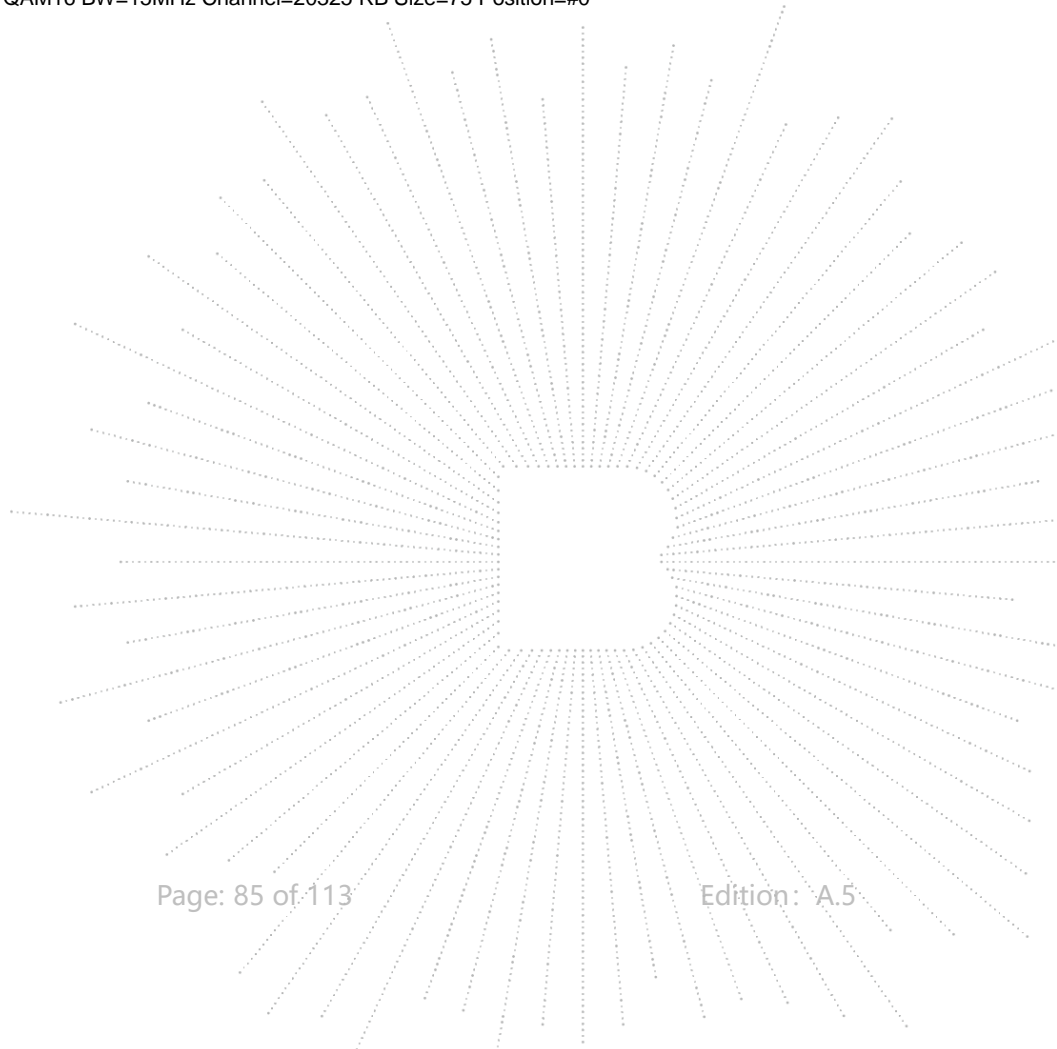


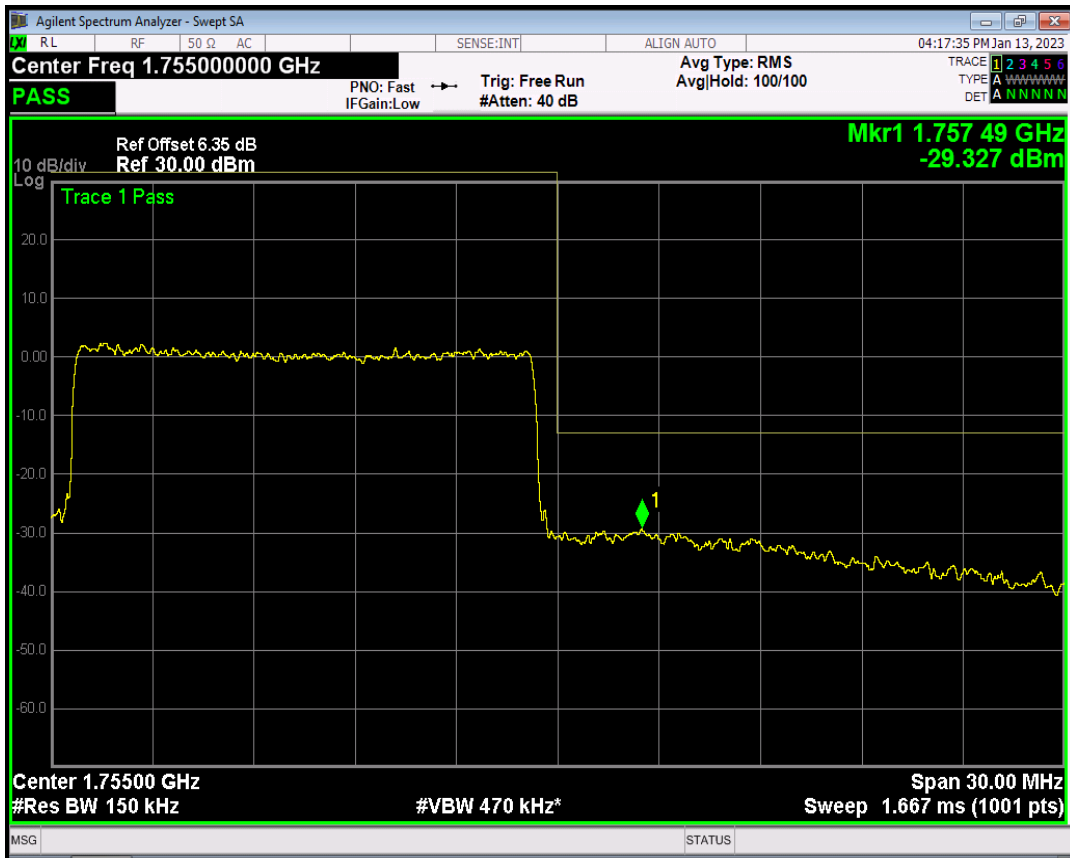


Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0

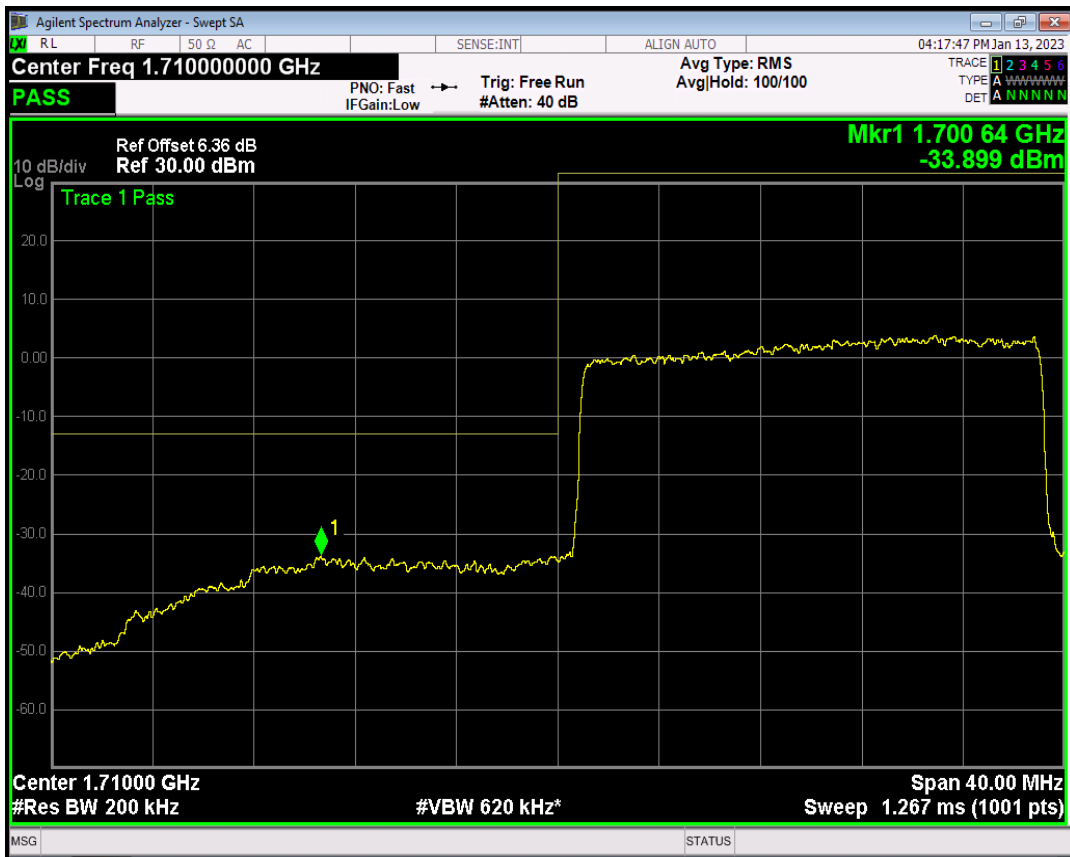


Band4 QAM16 BW=15MHz Channel=20325 RB Size=75 Position=#0



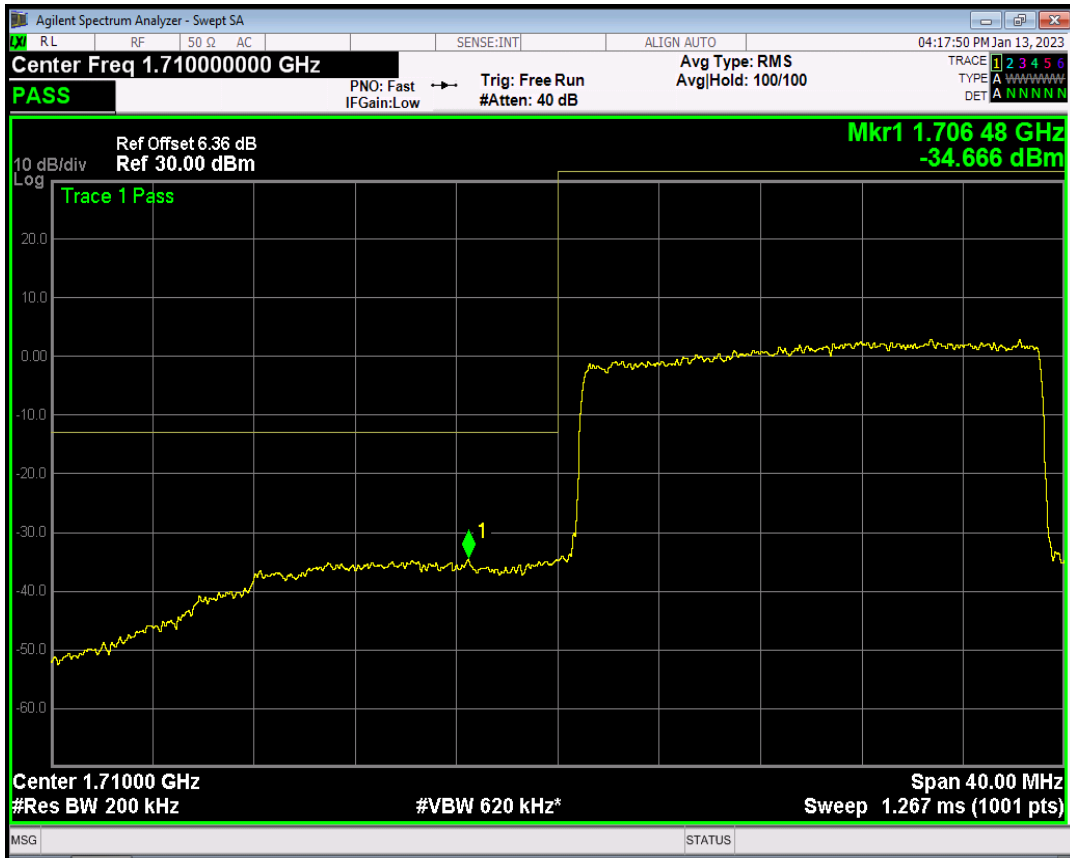


Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0

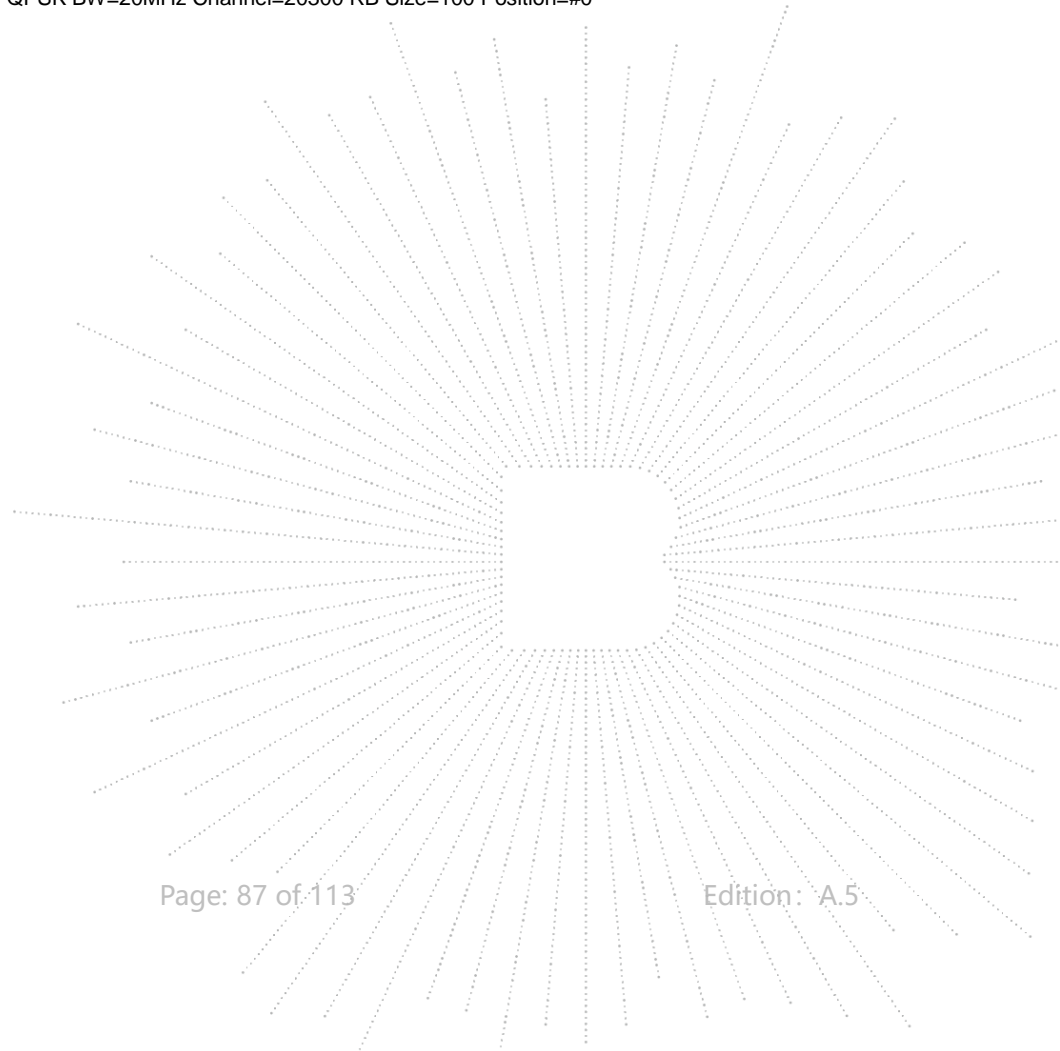


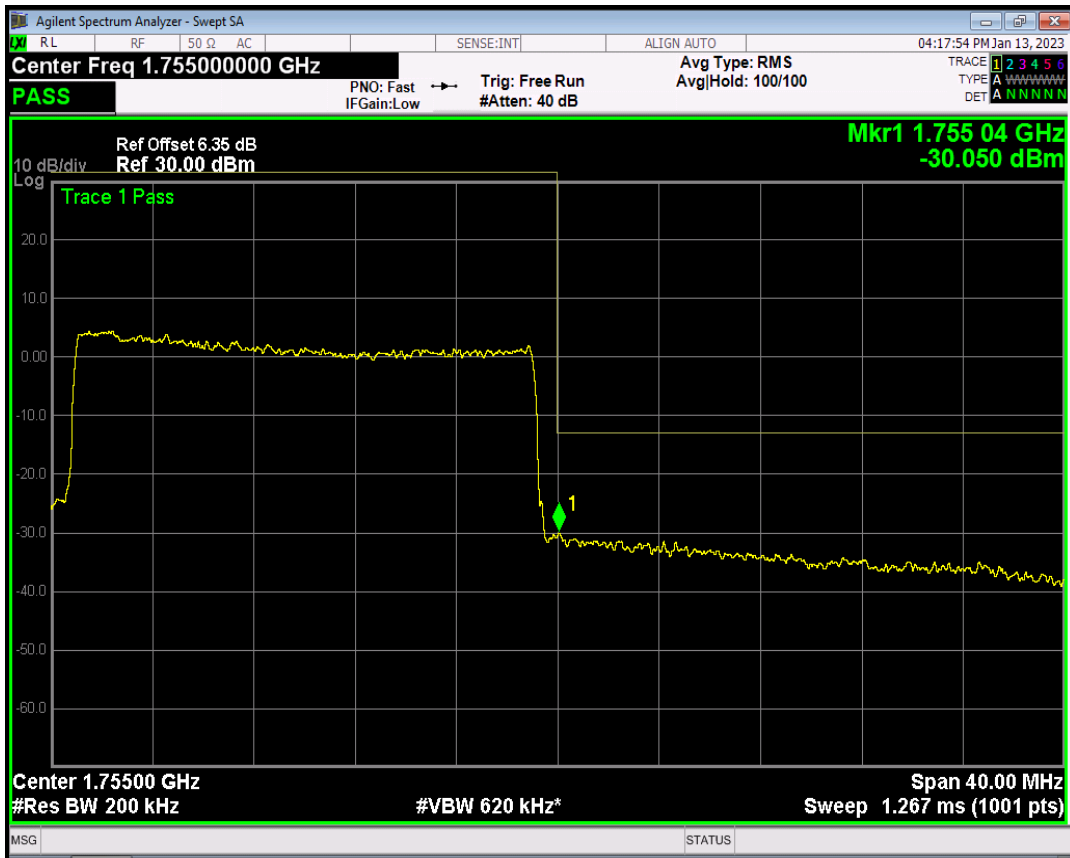


Band4 QAM16 BW=20MHz Channel=20050 RB Size=100 Position=#0

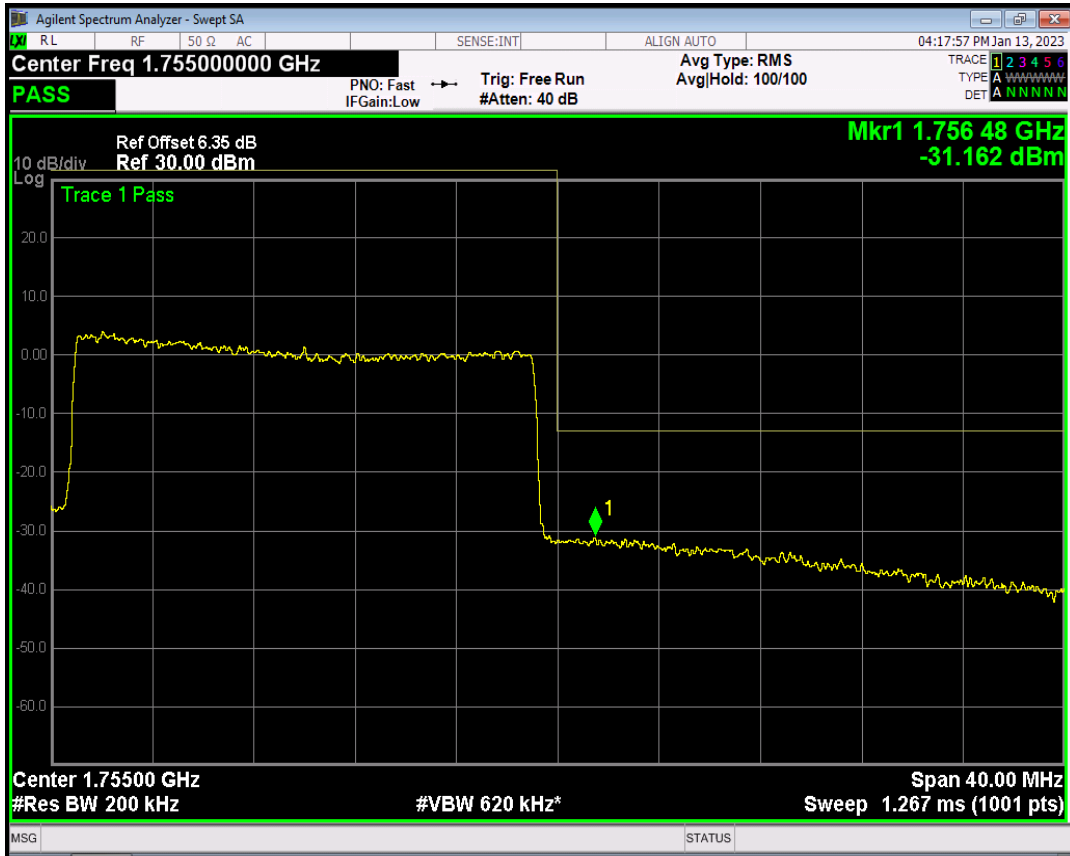


Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0





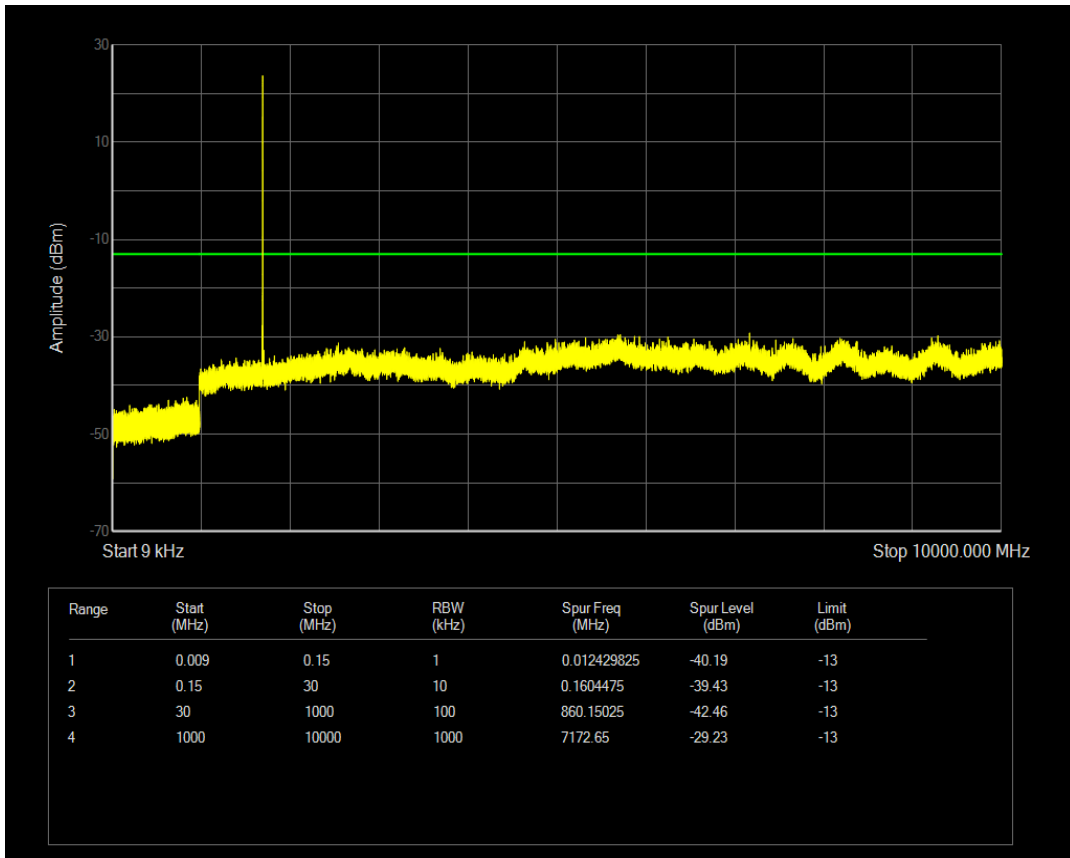
Band4 QAM16 BW=20MHz Channel=20300 RB Size=100 Position=#0



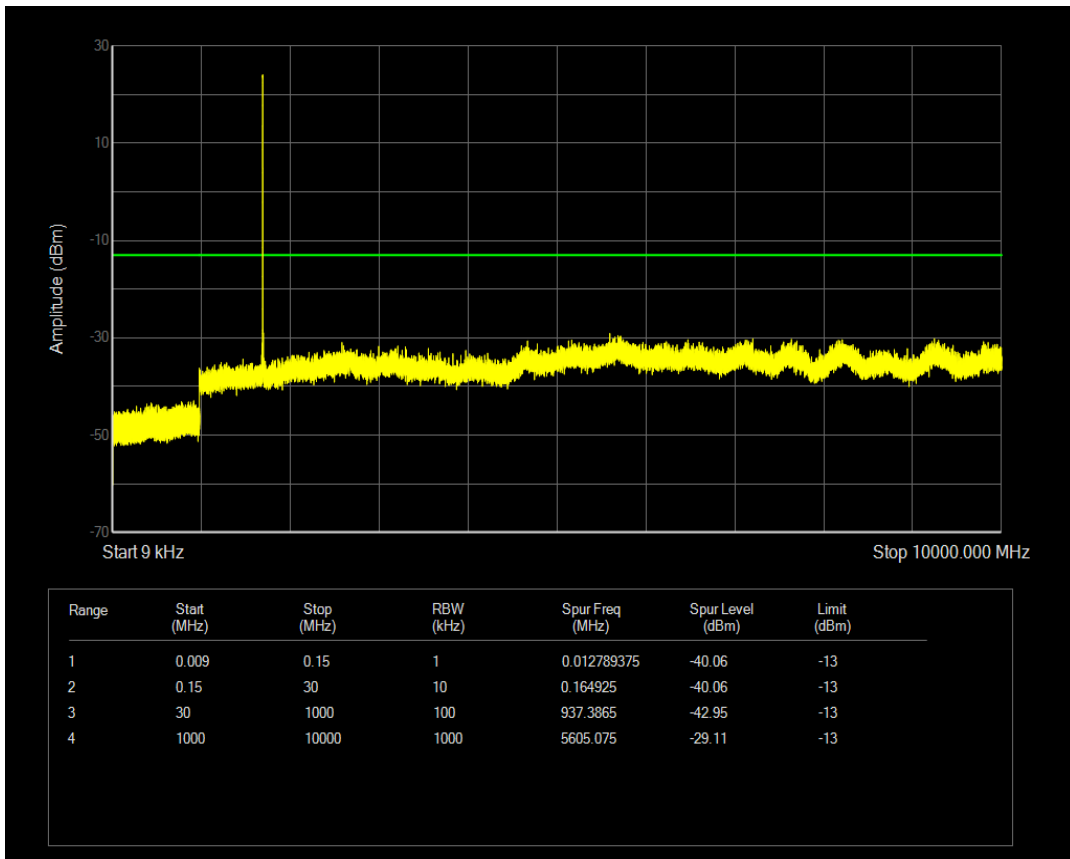
Appendix 6. Out-of-band emissions

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	7172.65	-29.23	-13	PASS
Band4	1.4	19957	6	#0	QAM16	5605.08	-29.11	-13	PASS
Band4	1.4	20175	6	#0	QPSK	5695.75	-28.01	-13	PASS
Band4	1.4	20175	6	#0	QAM16	8343.78	-29.29	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1760.73	-28.89	-13	PASS
Band4	1.4	20393	6	#0	QAM16	5705.65	-29.32	-13	PASS
Band4	3	19965	15	#0	QPSK	5673.70	-28.64	-13	PASS
Band4	3	19965	15	#0	QAM16	5704.08	-28.76	-13	PASS
Band4	3	20175	15	#0	QPSK	7627.83	-29.26	-13	PASS
Band4	3	20175	15	#0	QAM16	5749.30	-28.78	-13	PASS
Band4	3	20385	15	#0	QPSK	9277.98	-29.58	-13	PASS
Band4	3	20385	15	#0	QAM16	5704.98	-28.18	-13	PASS
Band4	5	19975	25	#0	QPSK	5641.75	-29.09	-13	PASS
Band4	5	19975	25	#0	QAM16	5719.15	-28.62	-13	PASS
Band4	5	20175	25	#0	QPSK	5593.83	-29.40	-13	PASS
Band4	5	20175	25	#0	QAM16	8210.35	-29.28	-13	PASS
Band4	5	20375	25	#0	QPSK	5705.88	-29.64	-13	PASS
Band4	5	20375	25	#0	QAM16	5545.45	-28.95	-13	PASS
Band4	10	20000	50	#0	QPSK	5701.15	-29.11	-13	PASS
Band4	10	20000	50	#0	QAM16	7085.58	-29.16	-13	PASS
Band4	10	20175	50	#0	QPSK	5655.25	-29.50	-13	PASS
Band4	10	20175	50	#0	QAM16	5675.28	-27.97	-13	PASS
Band4	10	20350	50	#0	QPSK	5625.55	-28.43	-13	PASS
Band4	10	20350	50	#0	QAM16	9269.88	-29.03	-13	PASS
Band4	15	20025	75	#0	QPSK	9292.60	-29.01	-13	PASS
Band4	15	20025	75	#0	QAM16	9243.33	-29.54	-13	PASS
Band4	15	20175	75	#0	QPSK	5649.18	-29.52	-13	PASS
Band4	15	20175	75	#0	QAM16	5645.35	-28.95	-13	PASS
Band4	15	20325	75	#0	QPSK	5712.40	-28.34	-13	PASS
Band4	15	20325	75	#0	QAM16	5683.60	-28.05	-13	PASS
Band4	20	20050	100	#0	QPSK	9933.85	-28.27	-13	PASS
Band4	20	20050	100	#0	QAM16	8155.45	-29.46	-13	PASS
Band4	20	20175	100	#0	QPSK	5303.13	-29.29	-13	PASS
Band4	20	20175	100	#0	QAM16	7108.98	-28.91	-13	PASS
Band4	20	20300	100	#0	QPSK	7128.10	-29.08	-13	PASS
Band4	20	20300	100	#0	QAM16	5680.00	-29.35	-13	PASS

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

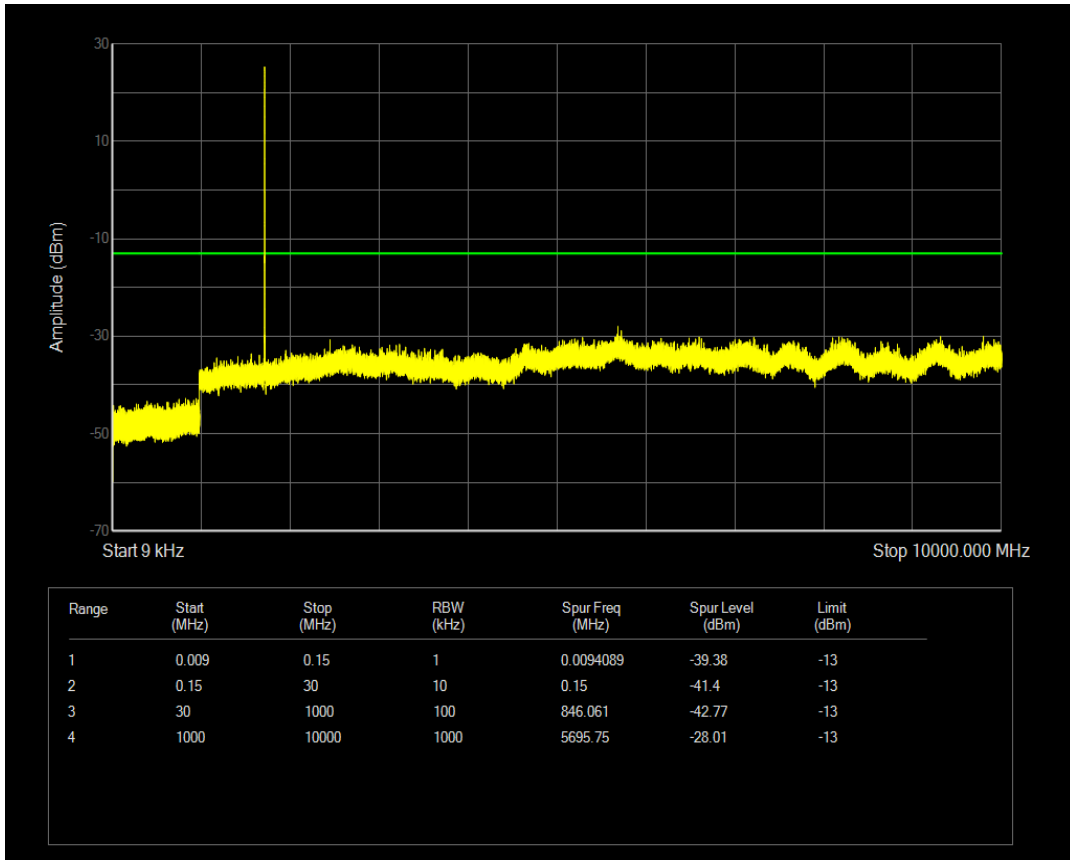


Band4 QAM16 BW=1.4MHz Channel=19957 RB Size=6 Position=#0

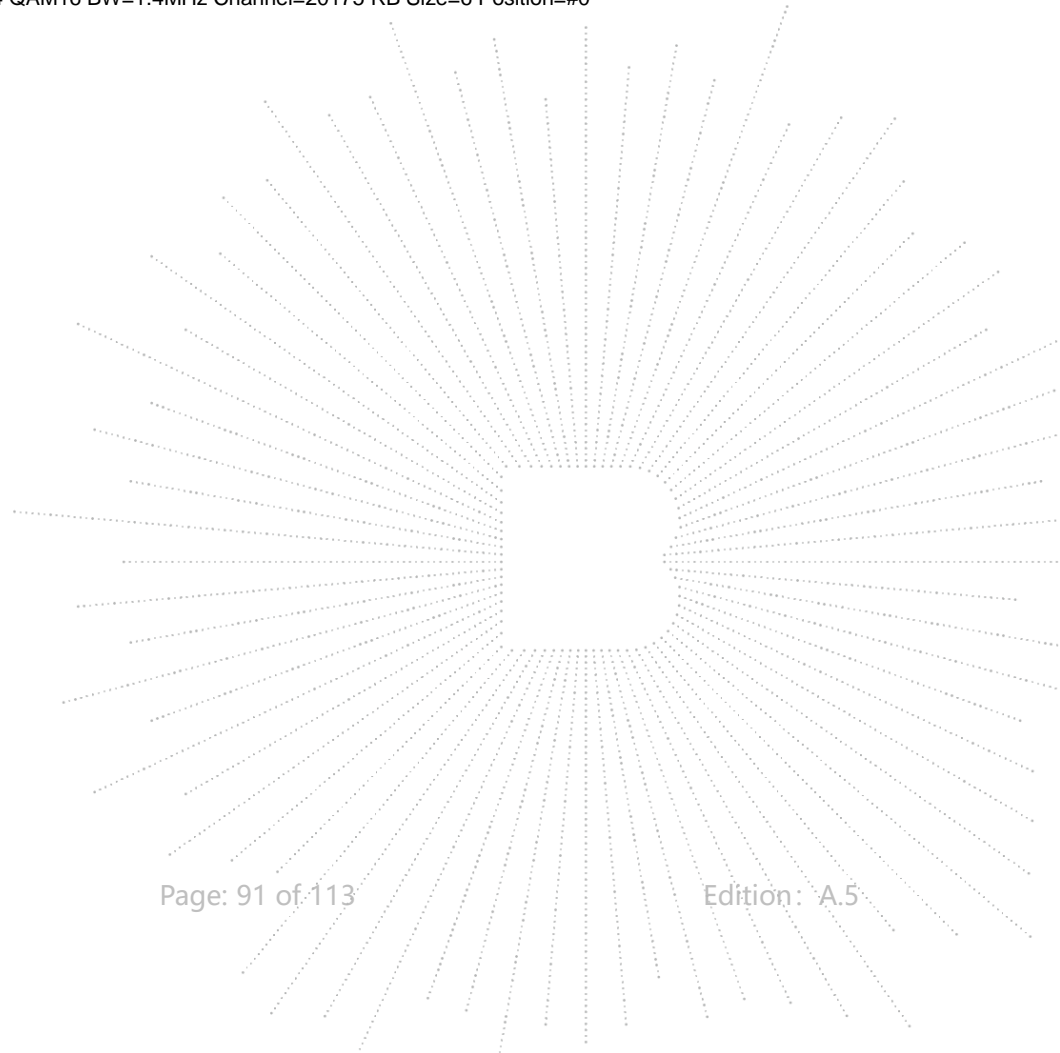


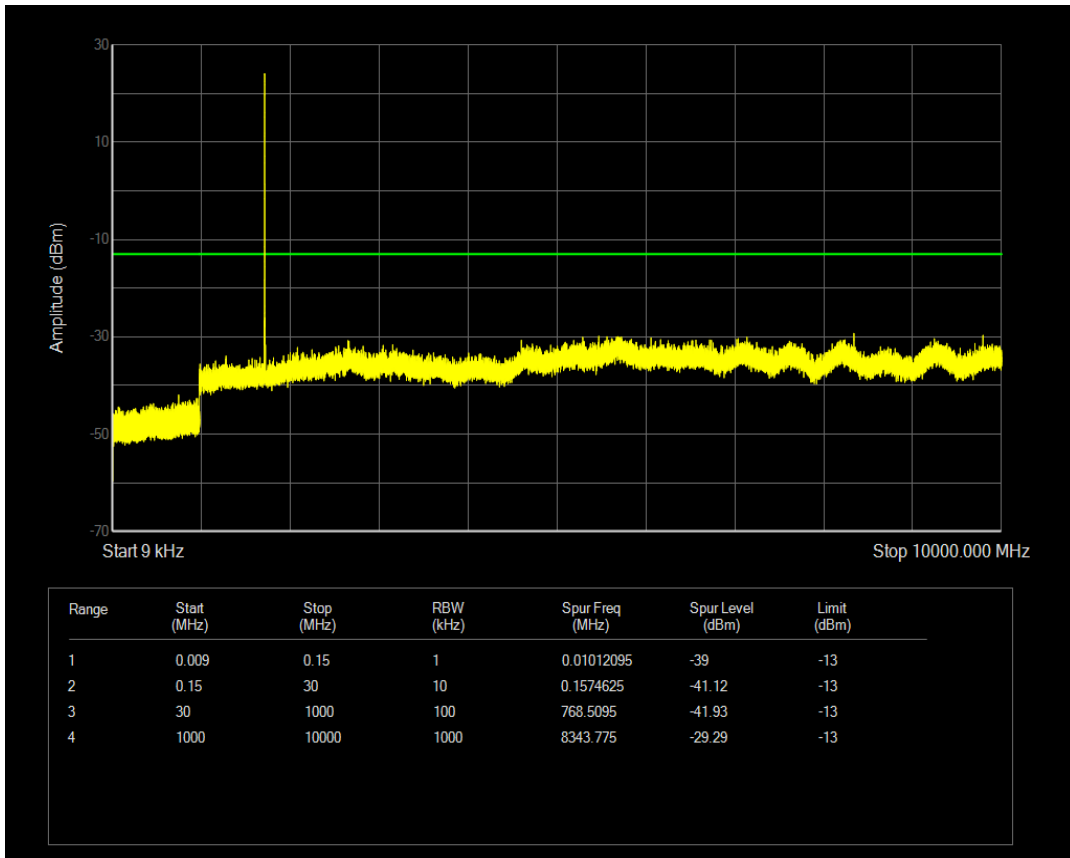


Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0

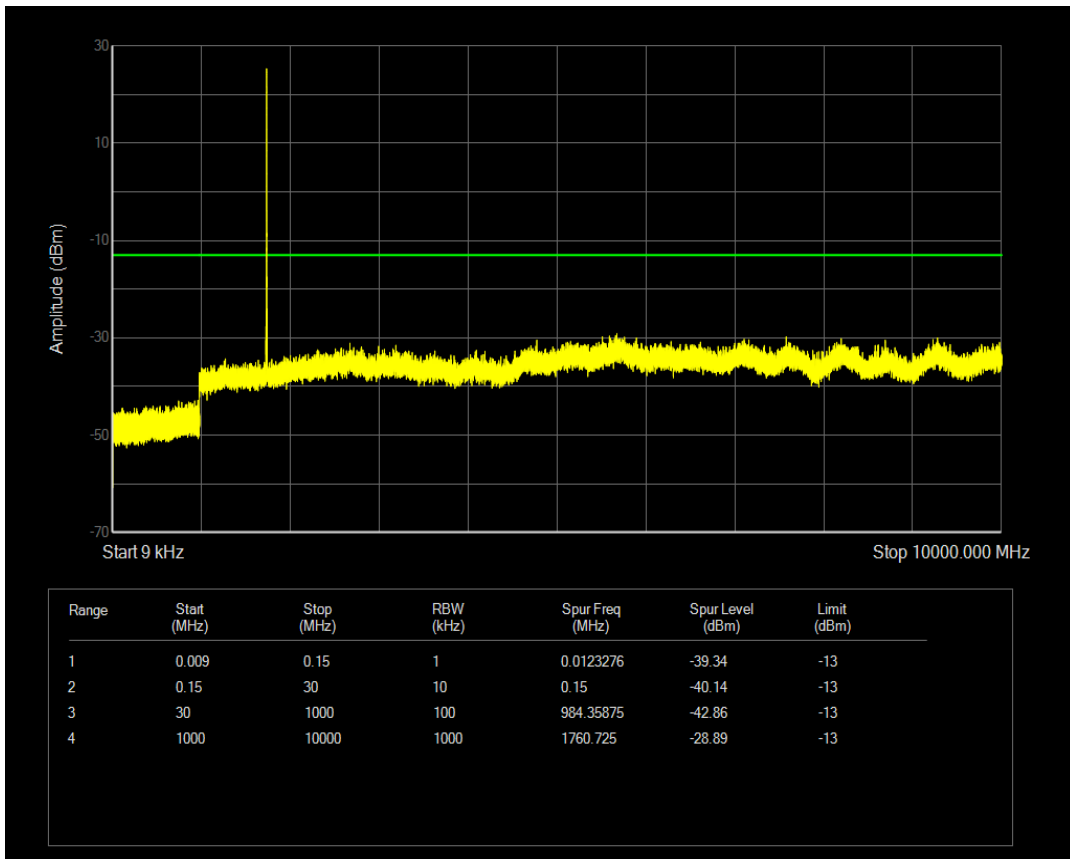


Band4 QAM16 BW=1.4MHz Channel=20175 RB Size=6 Position=#0



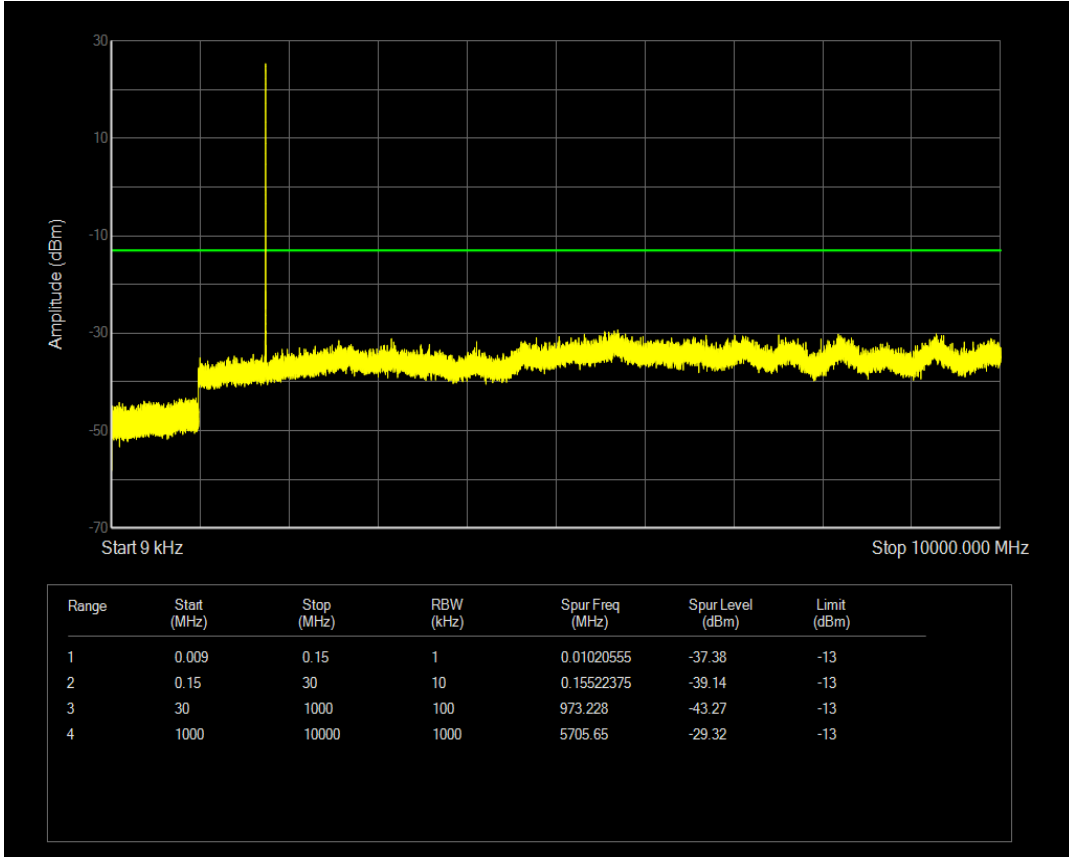


Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

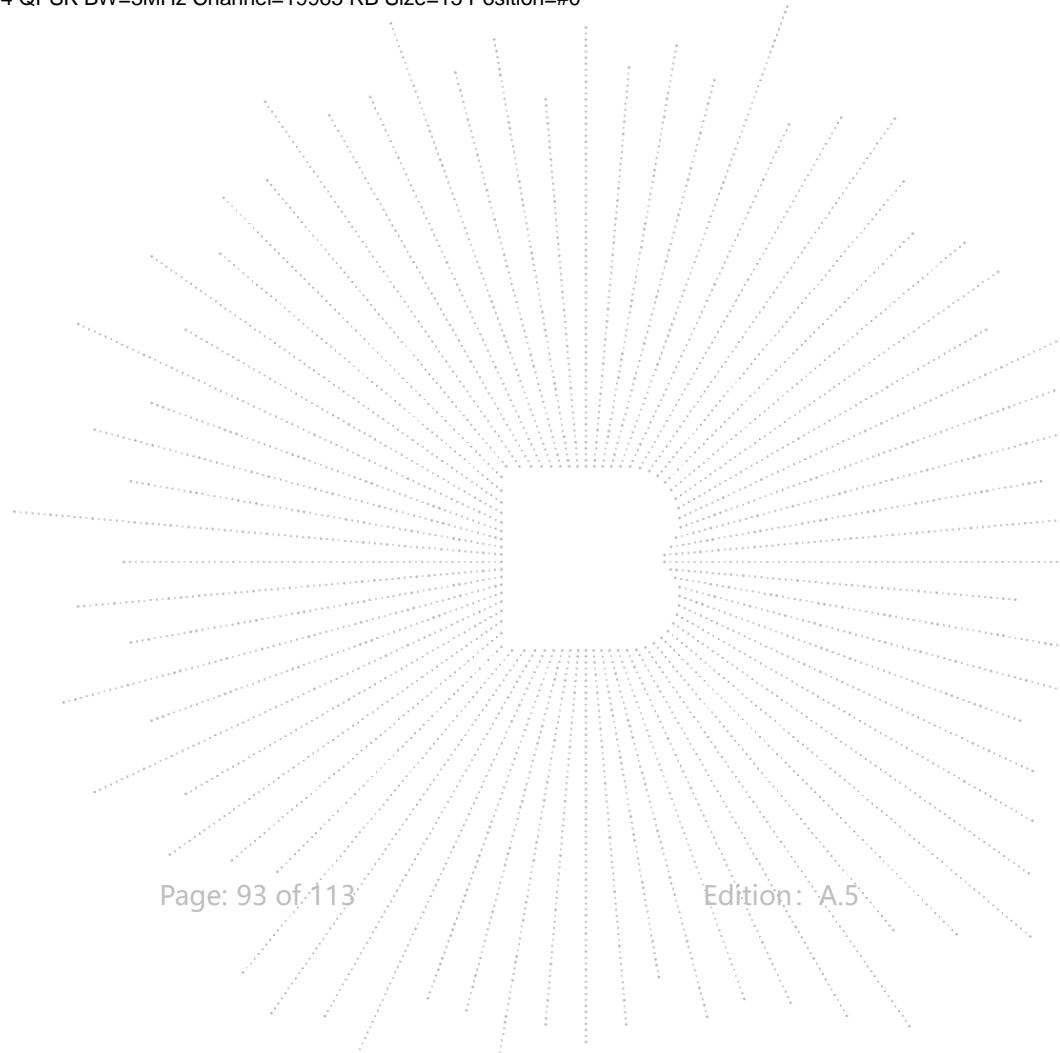


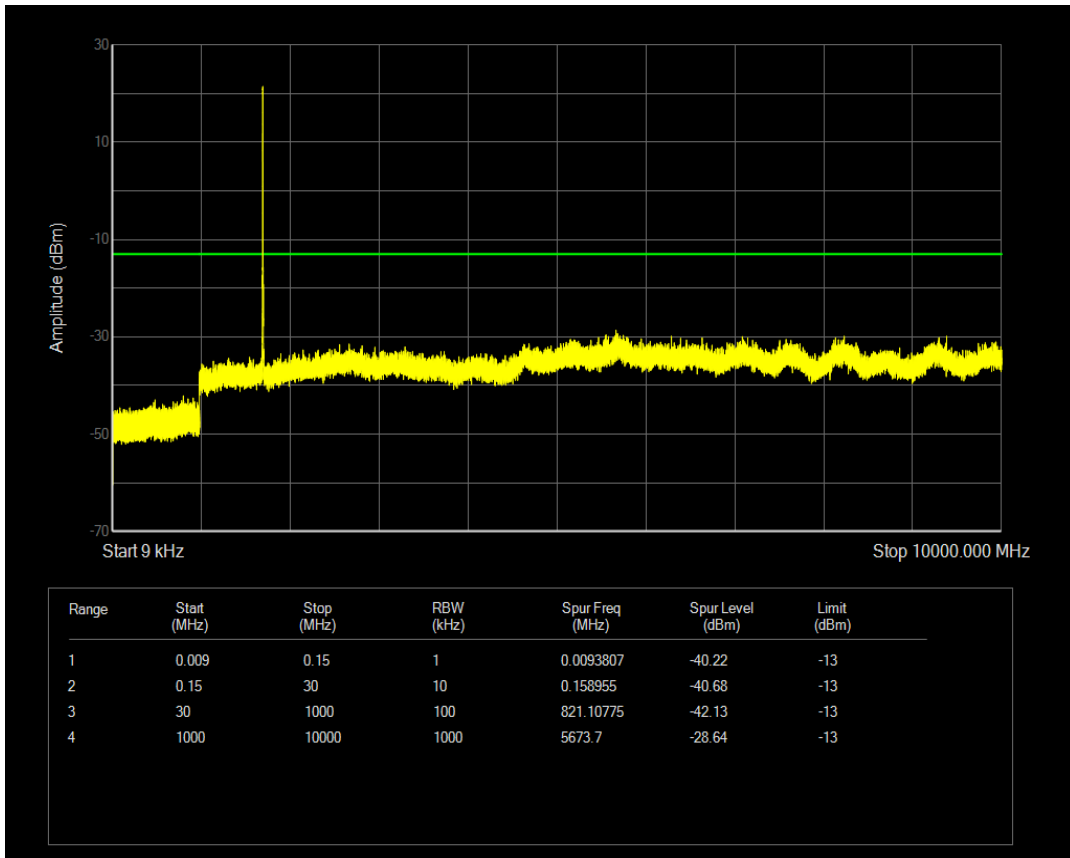


Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0

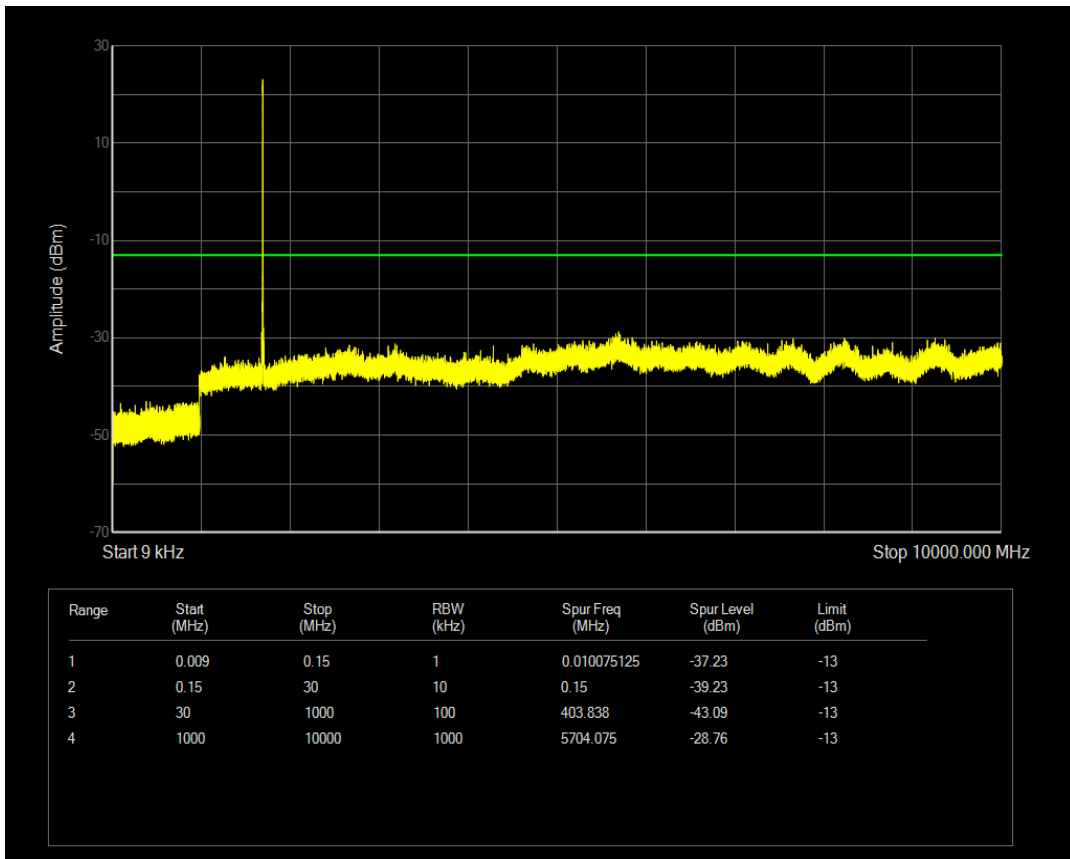


Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



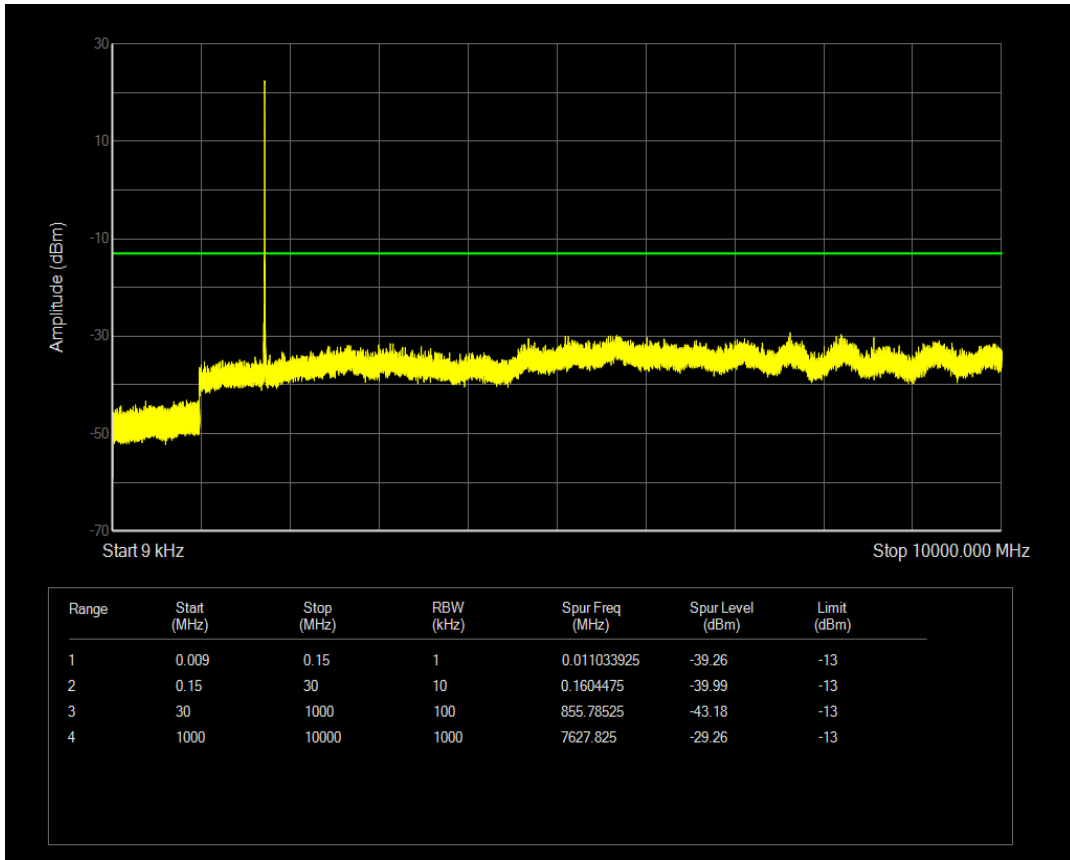


Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0

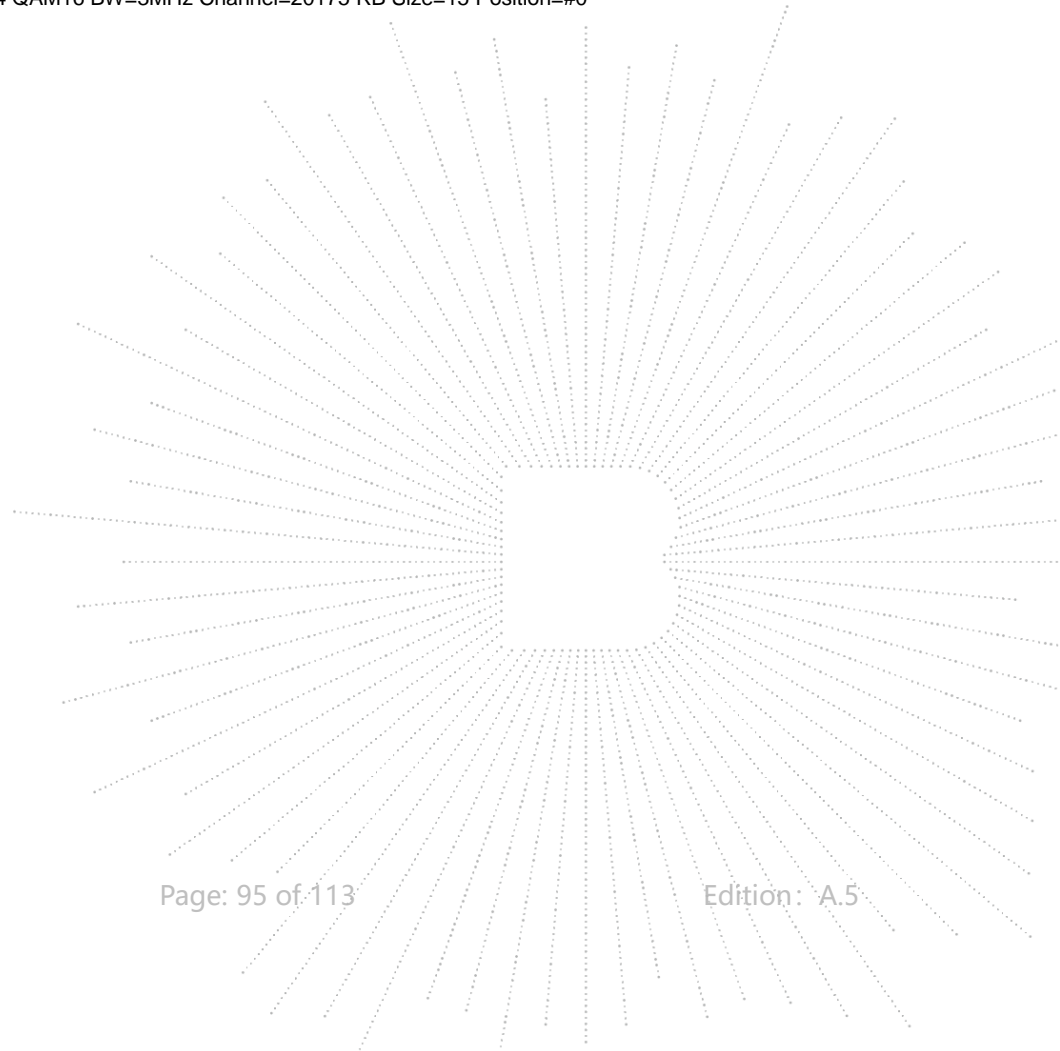


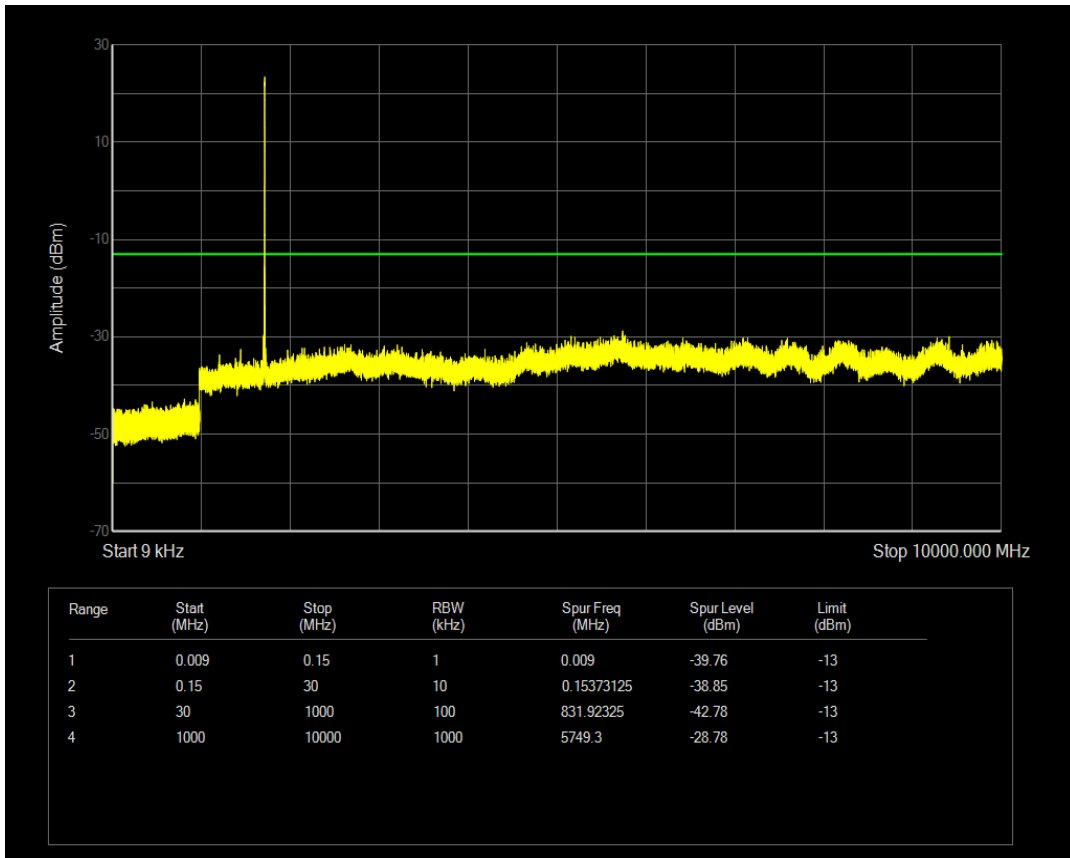


Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0

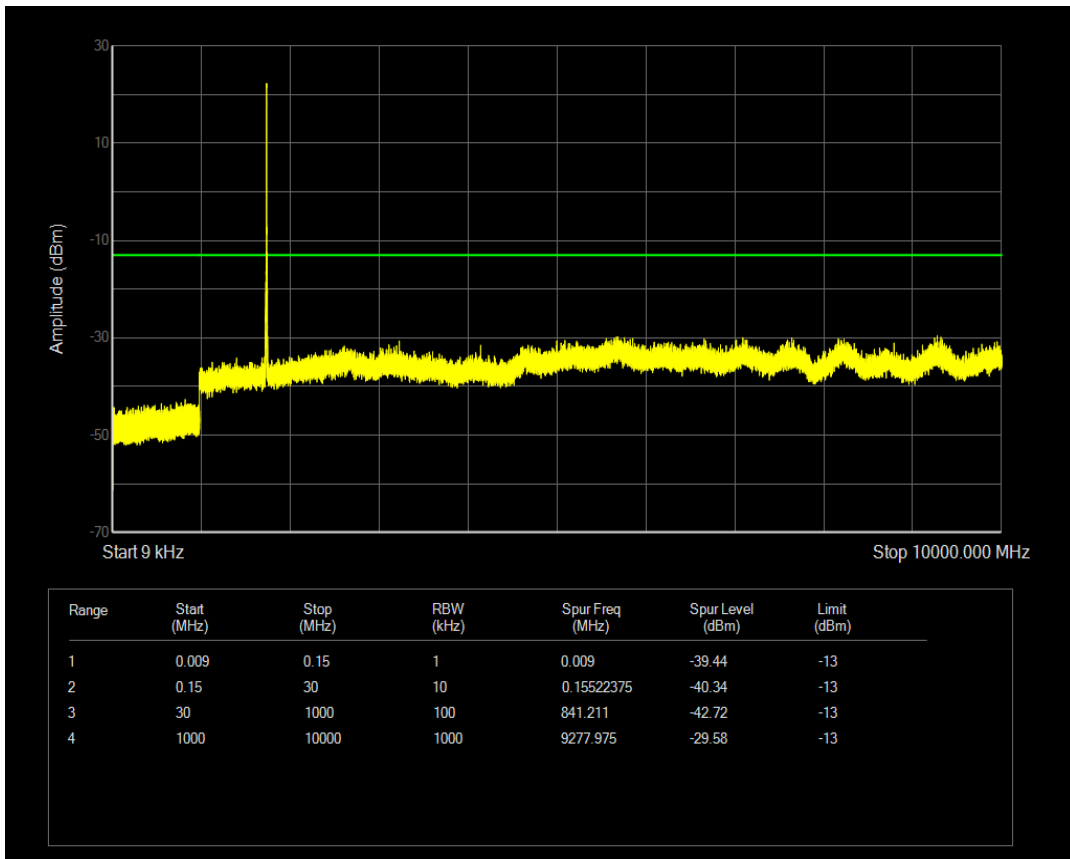


Band4 QAM16 BW=3MHz Channel=20175 RB Size=15 Position=#0



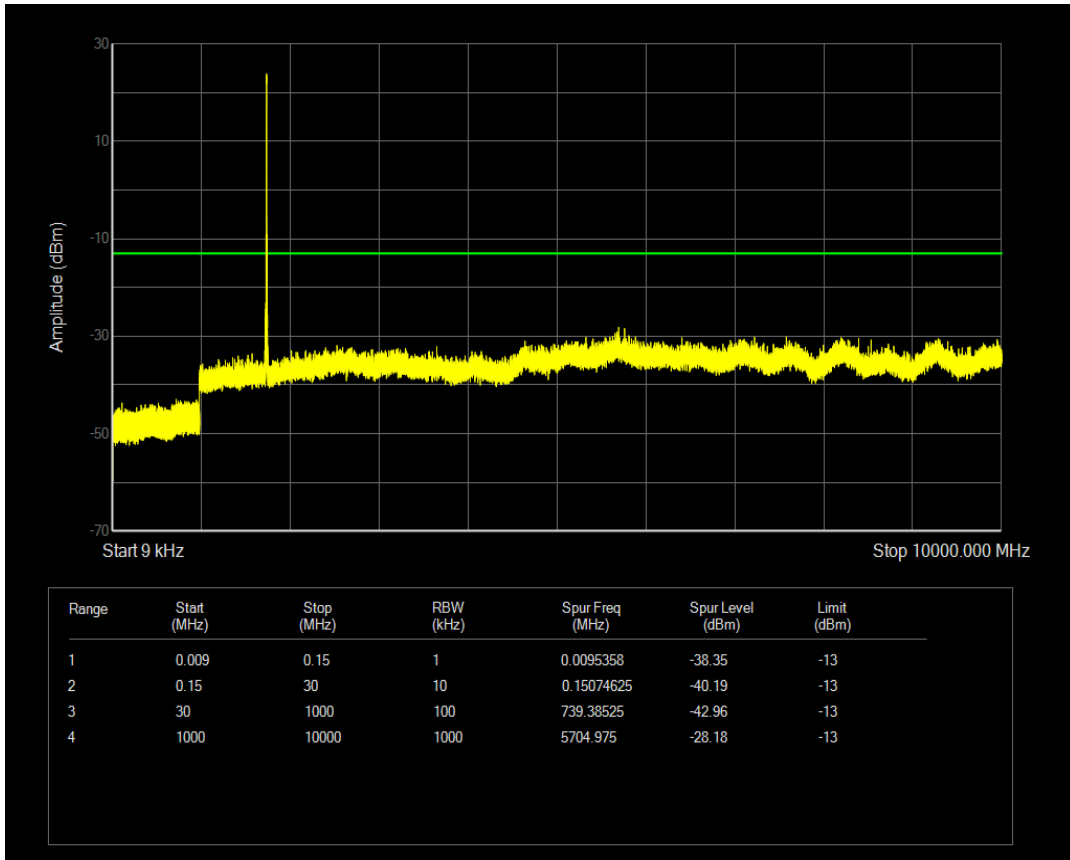


Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

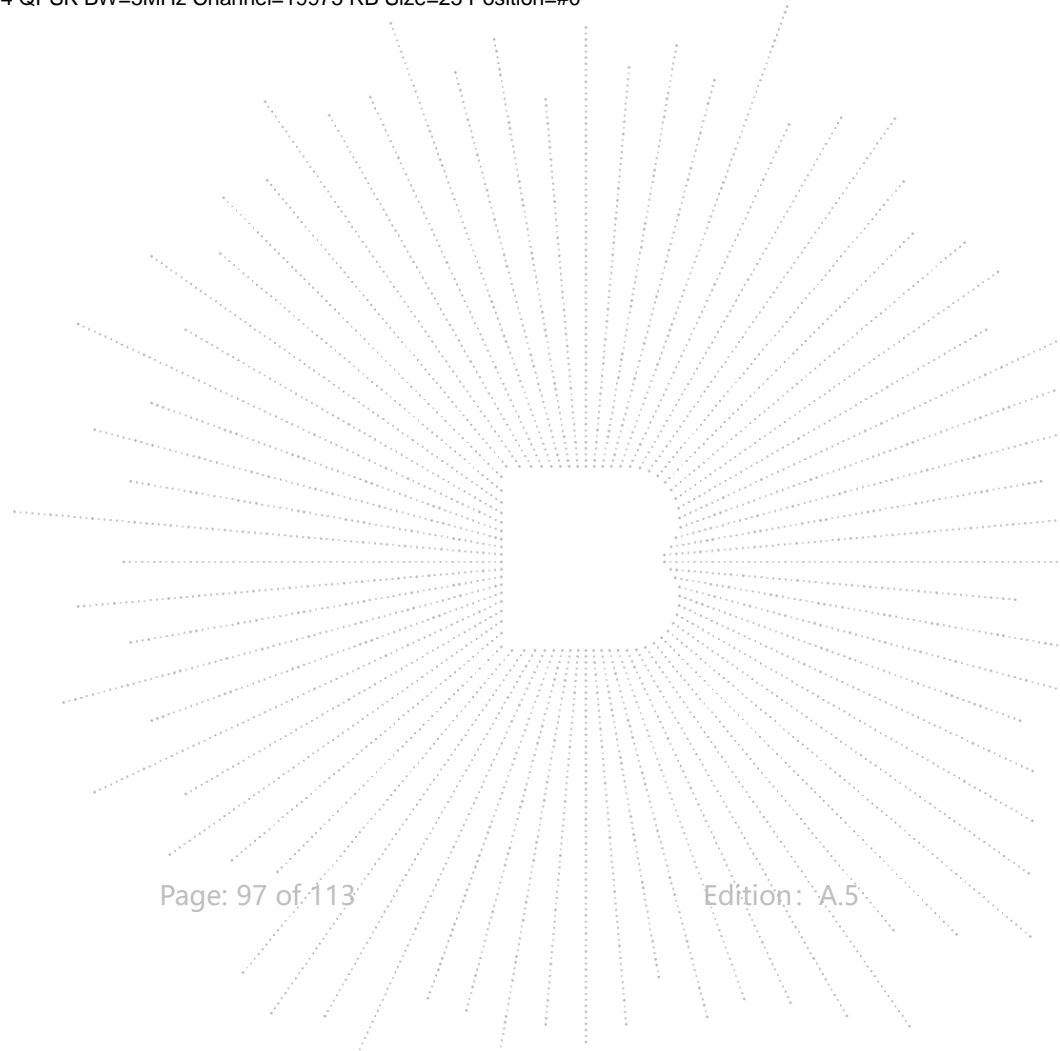


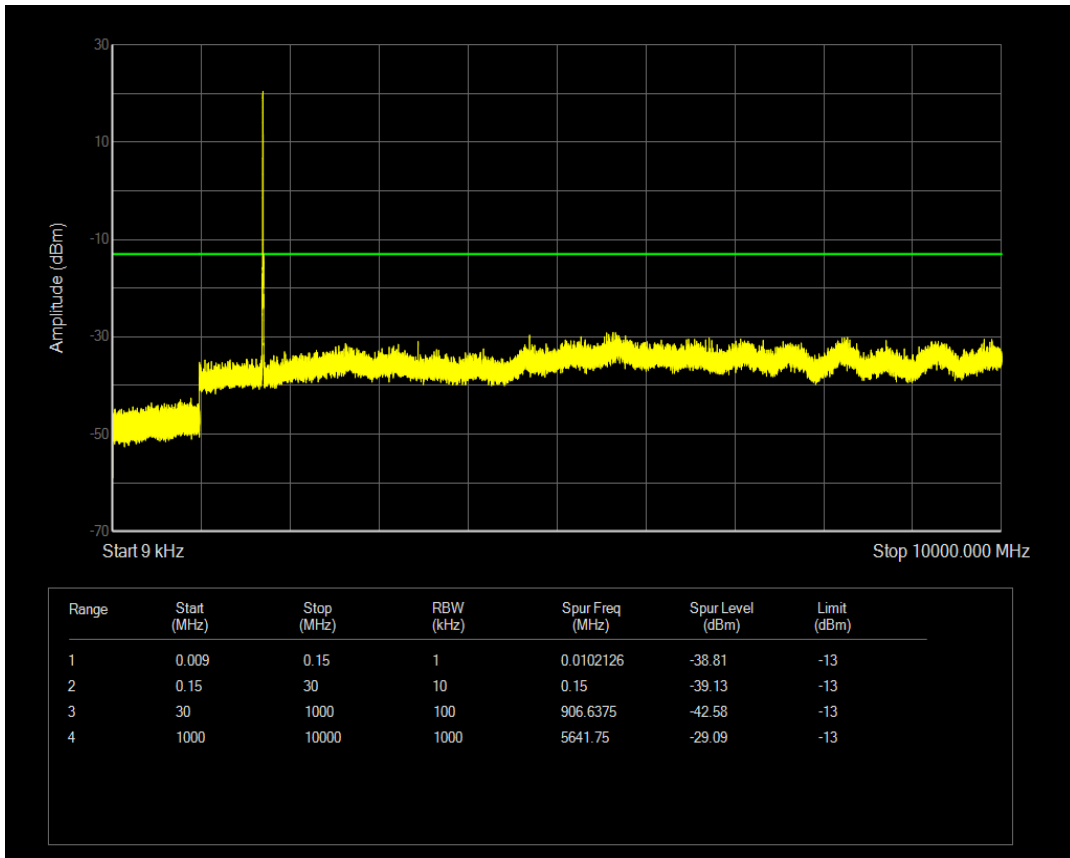


Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0

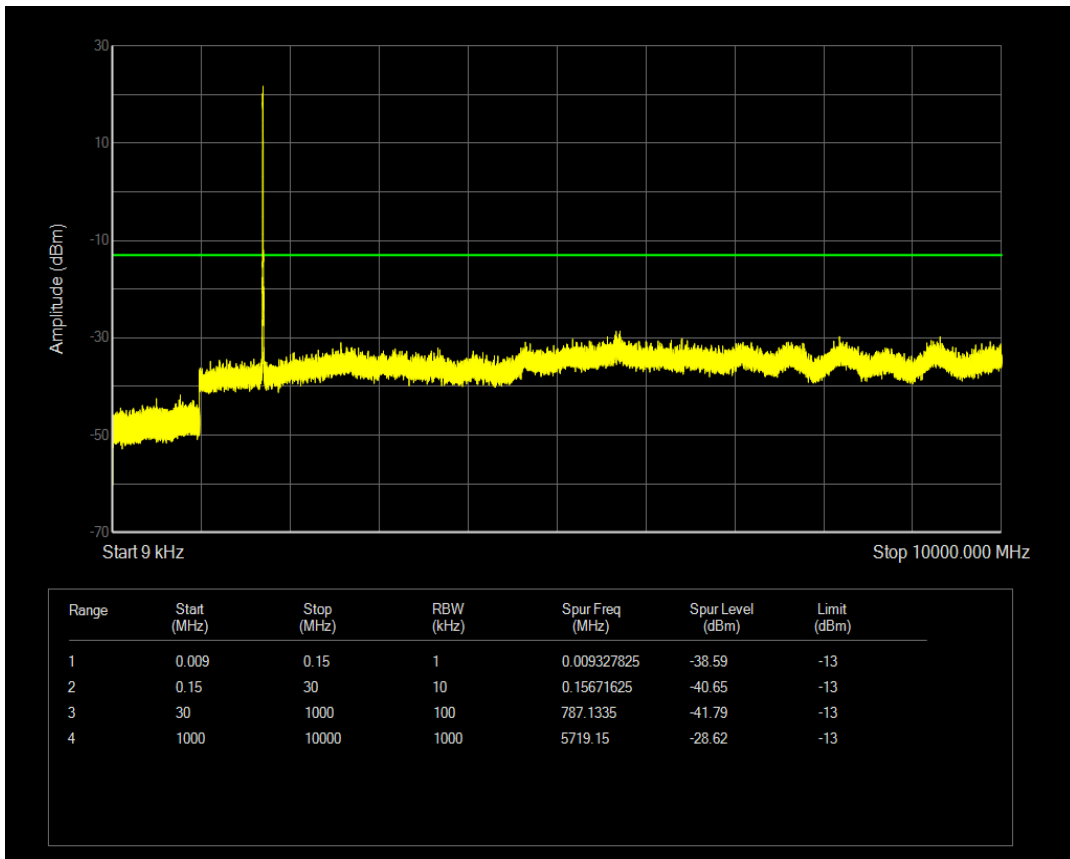


Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



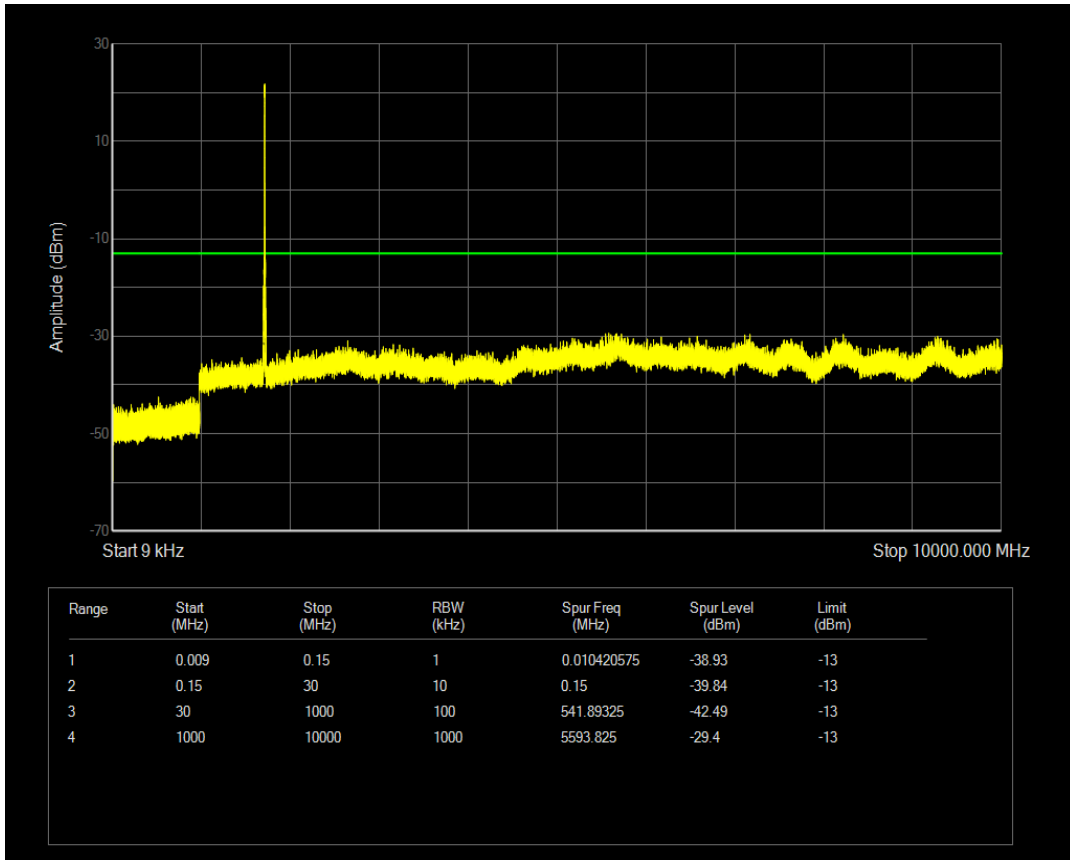


Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0

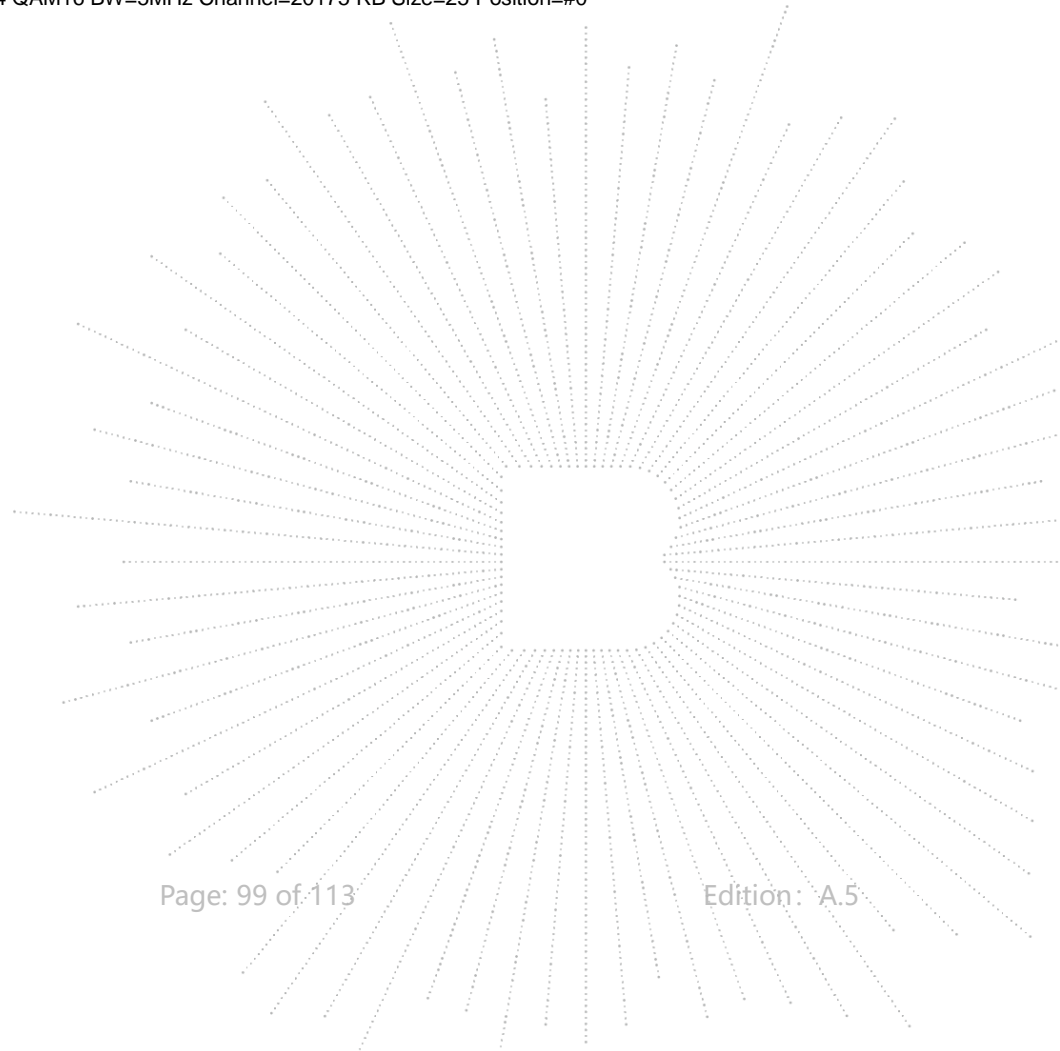


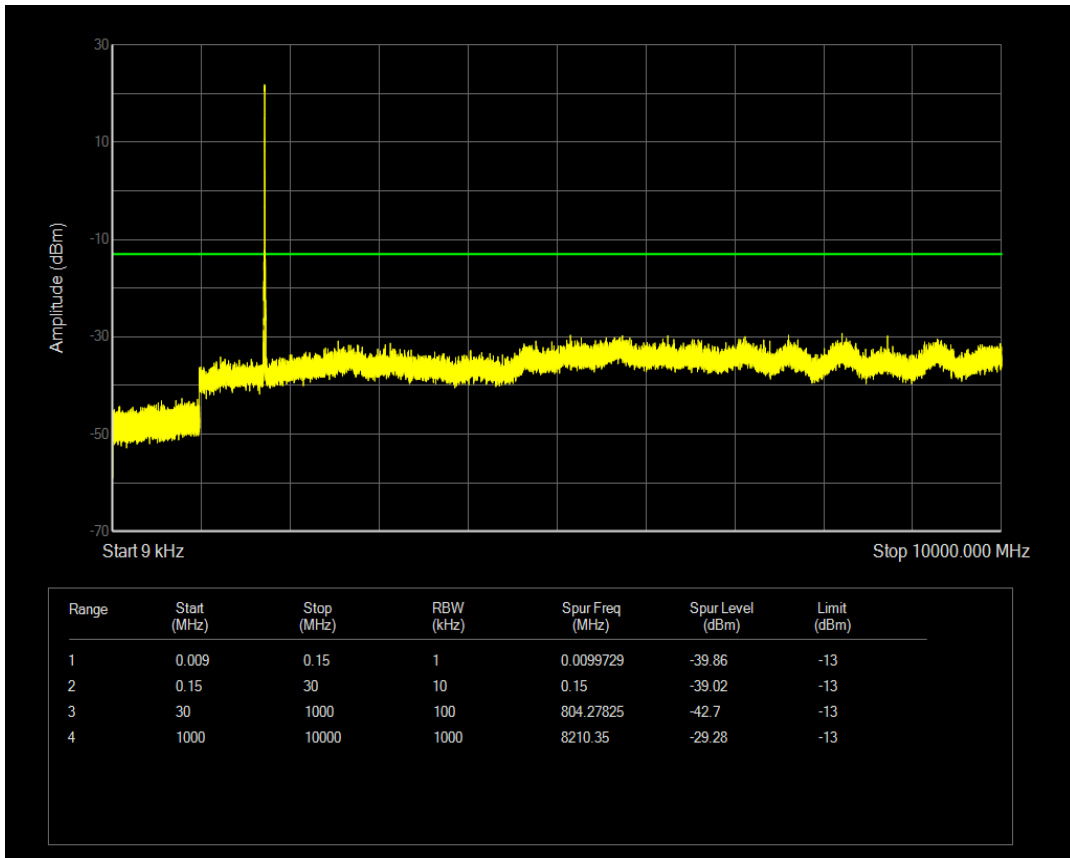


Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0

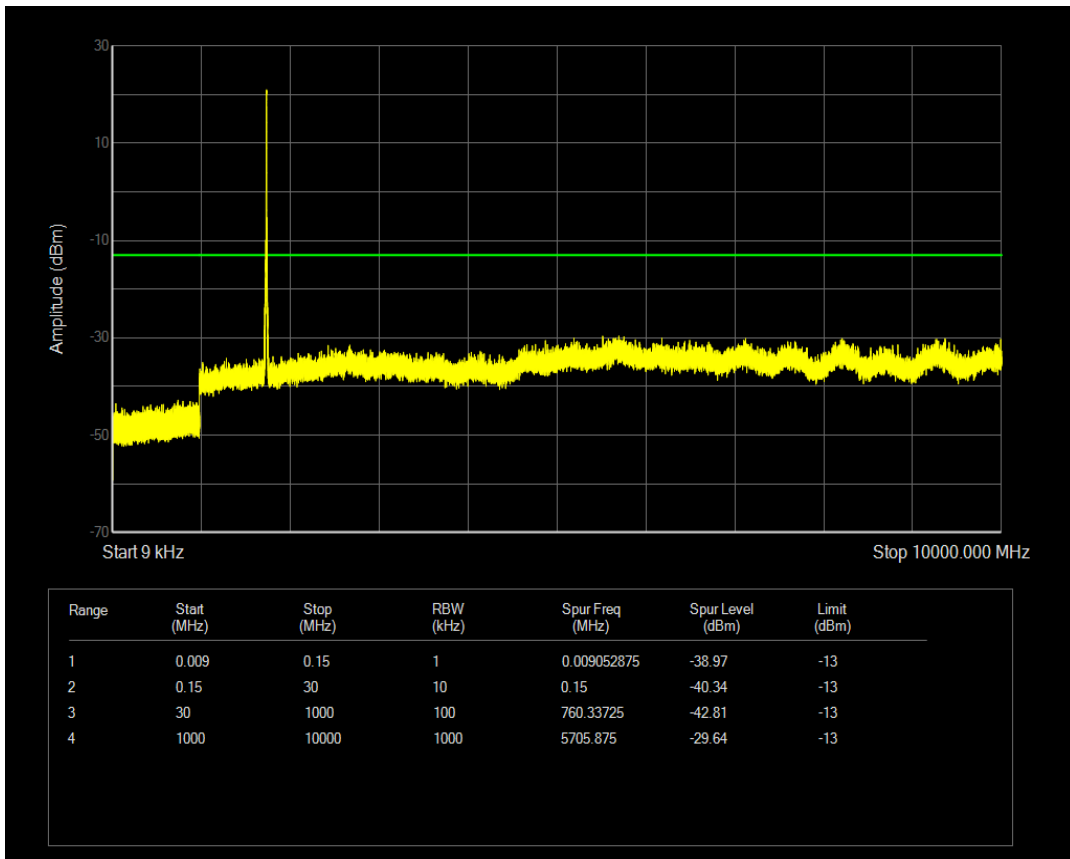


Band4 QAM16 BW=5MHz Channel=20175 RB Size=25 Position=#0



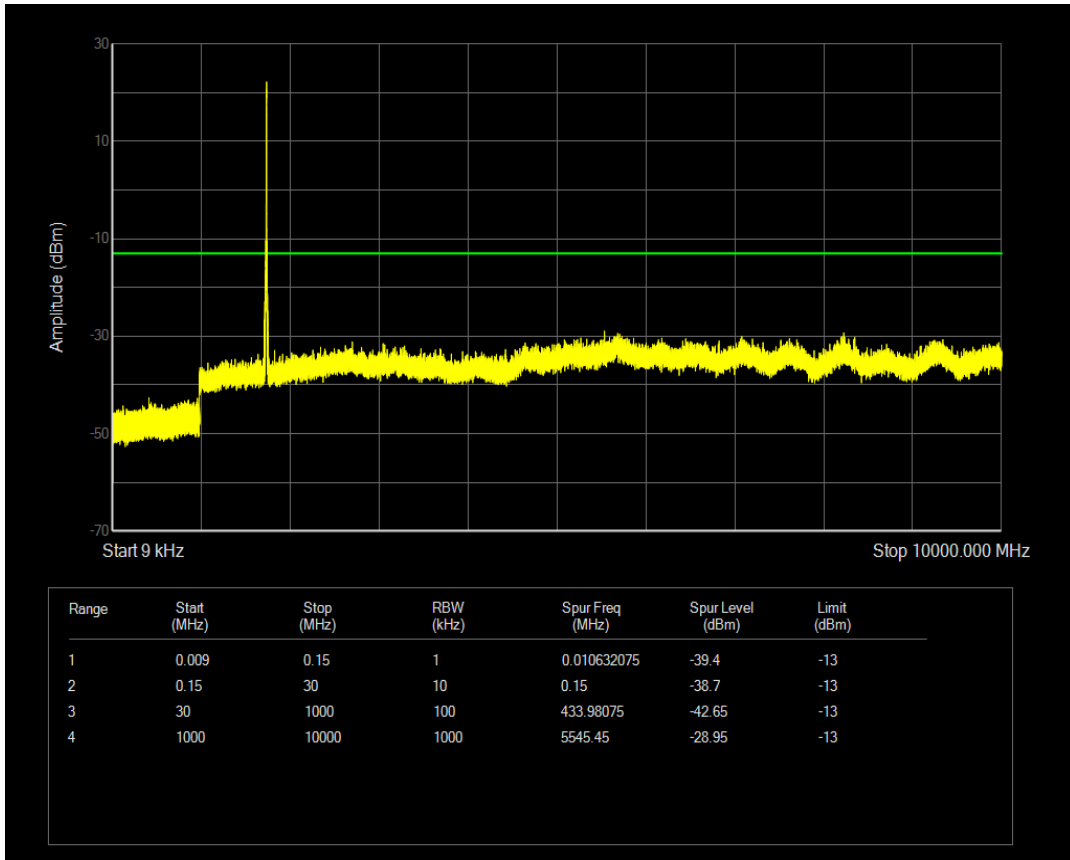


Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

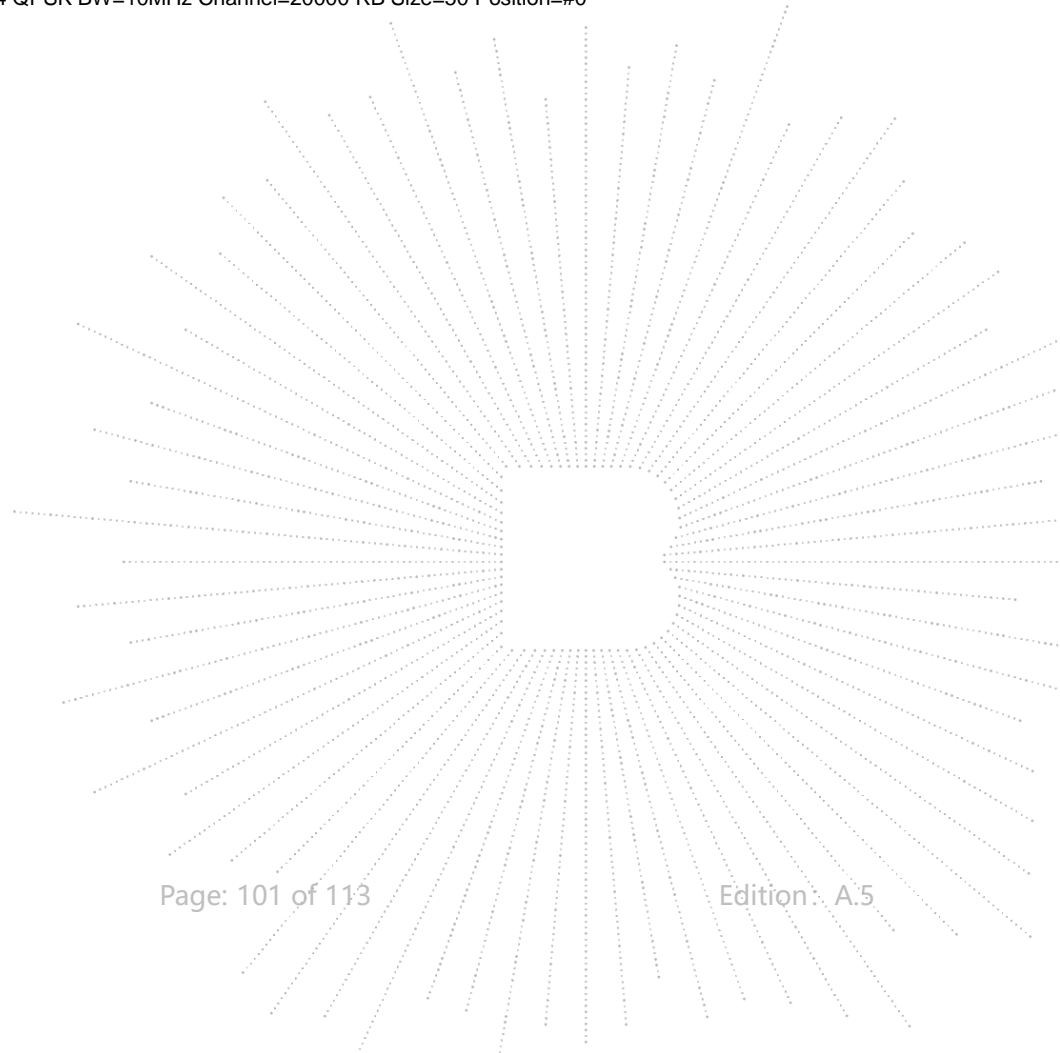


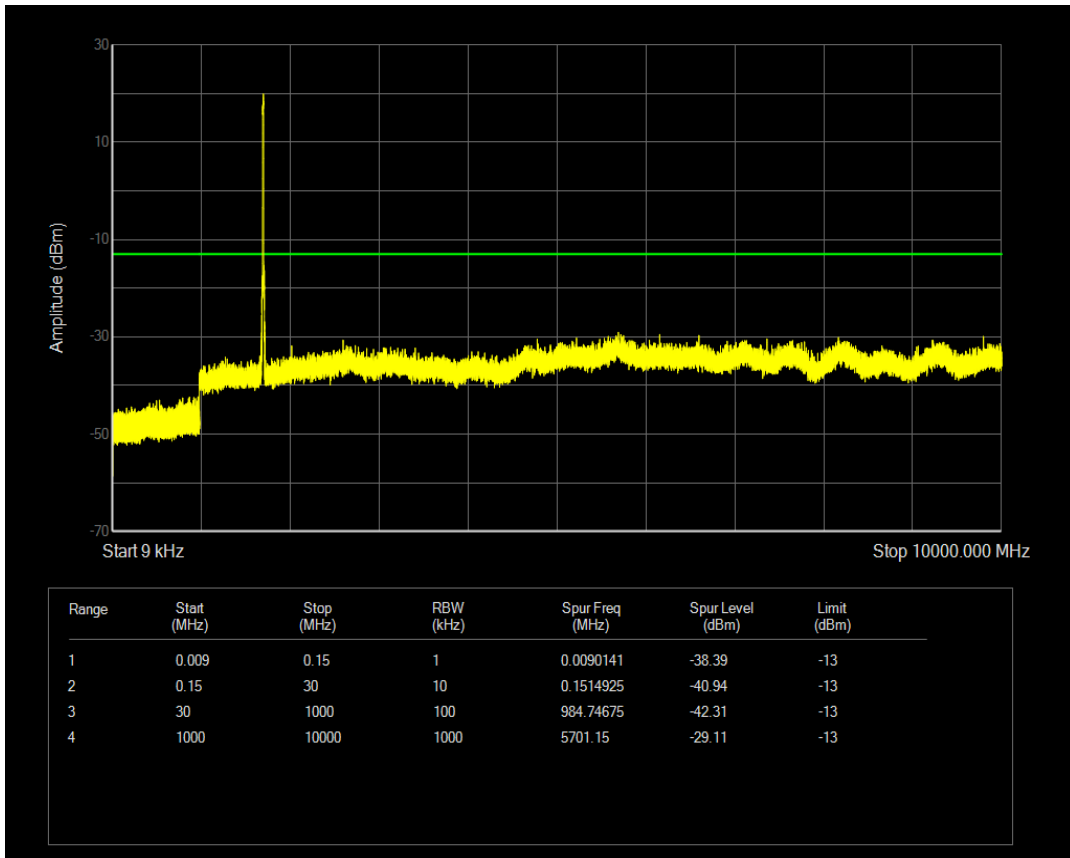


Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0

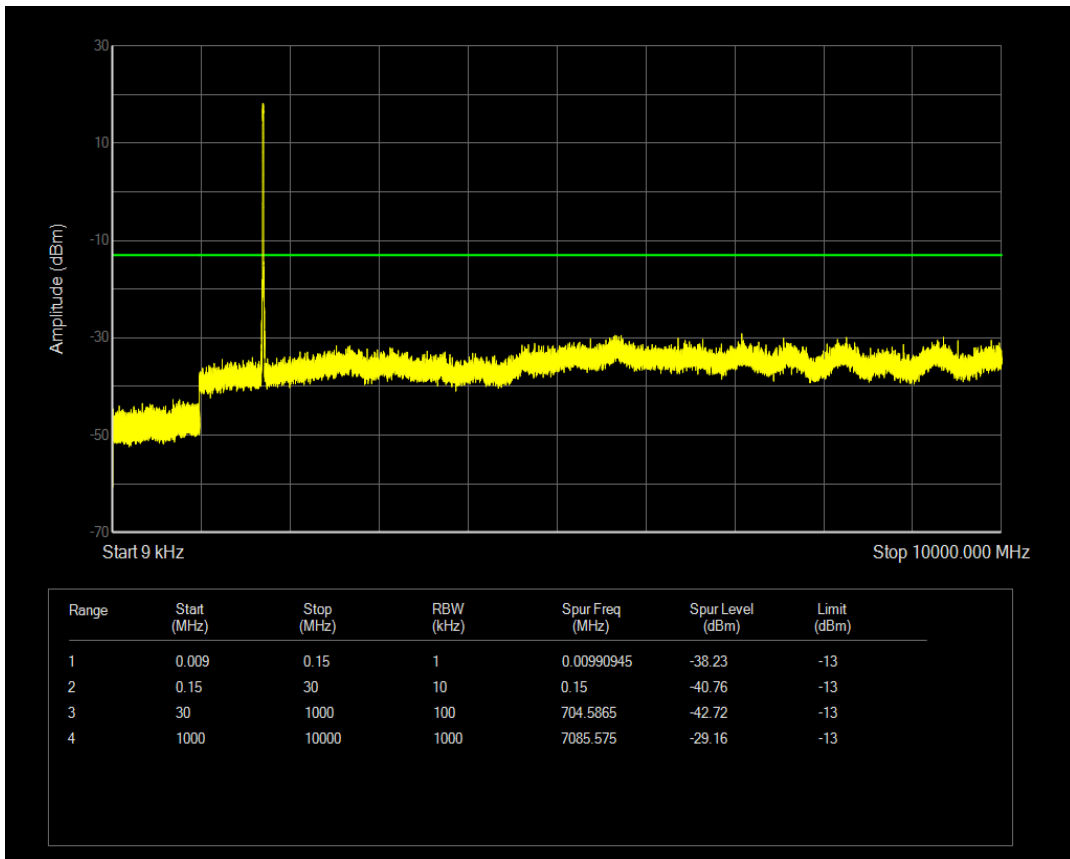


Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



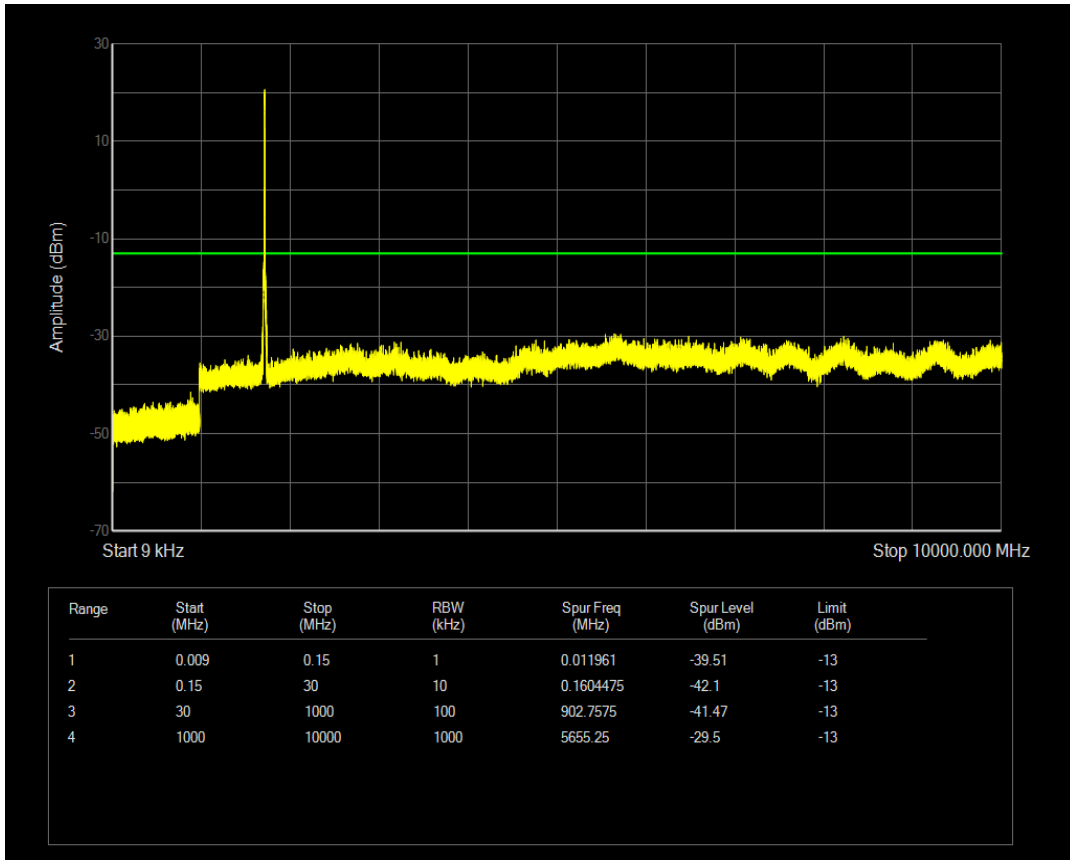


Band4 QAM16 BW=10MHz Channel=20000 RB Size=50 Position=#0

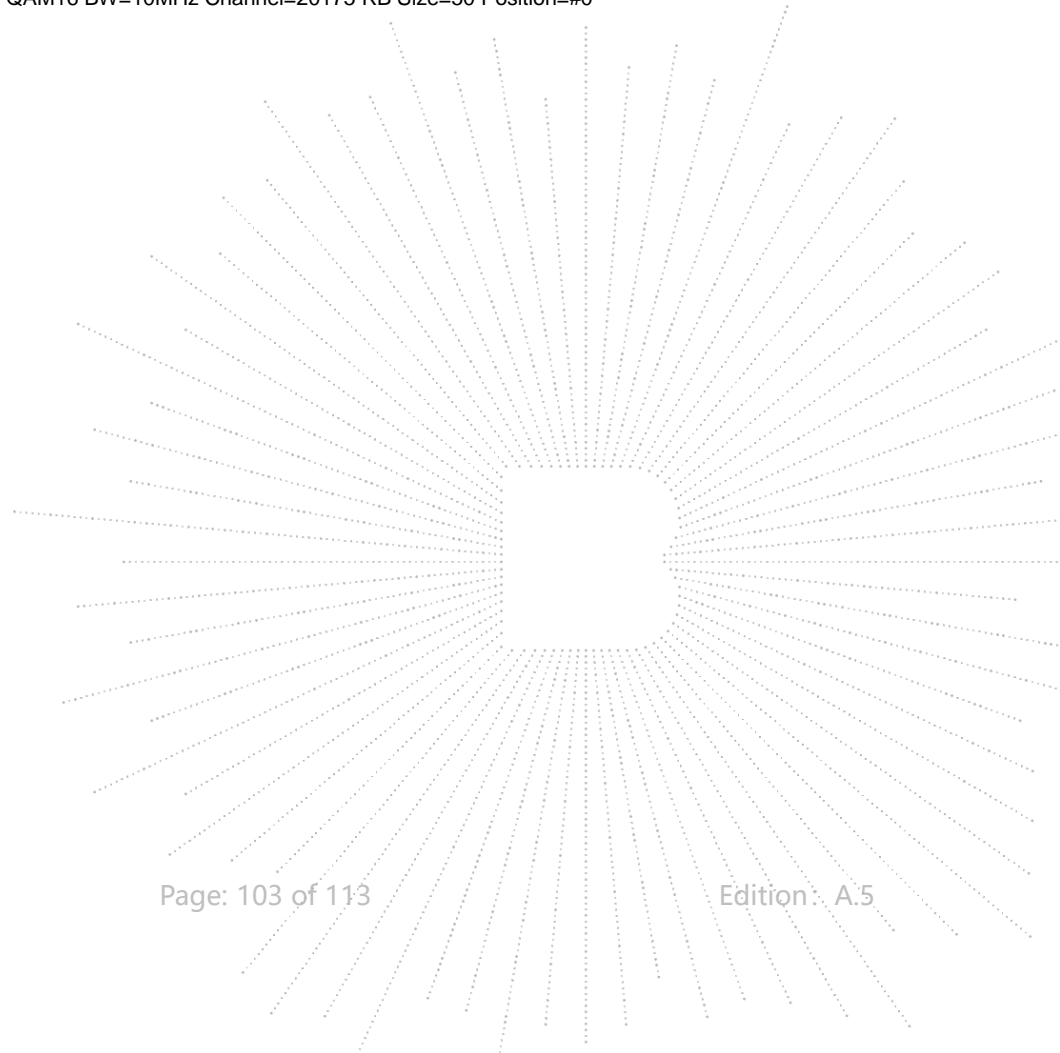


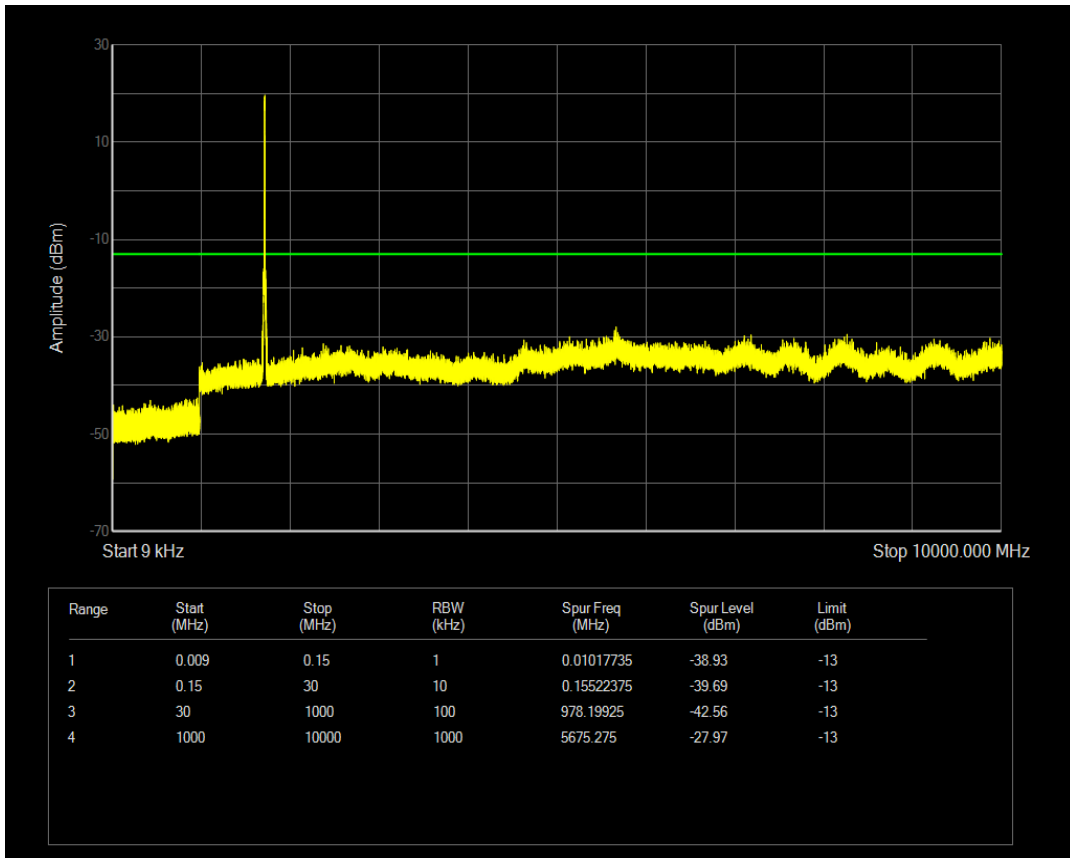


Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0

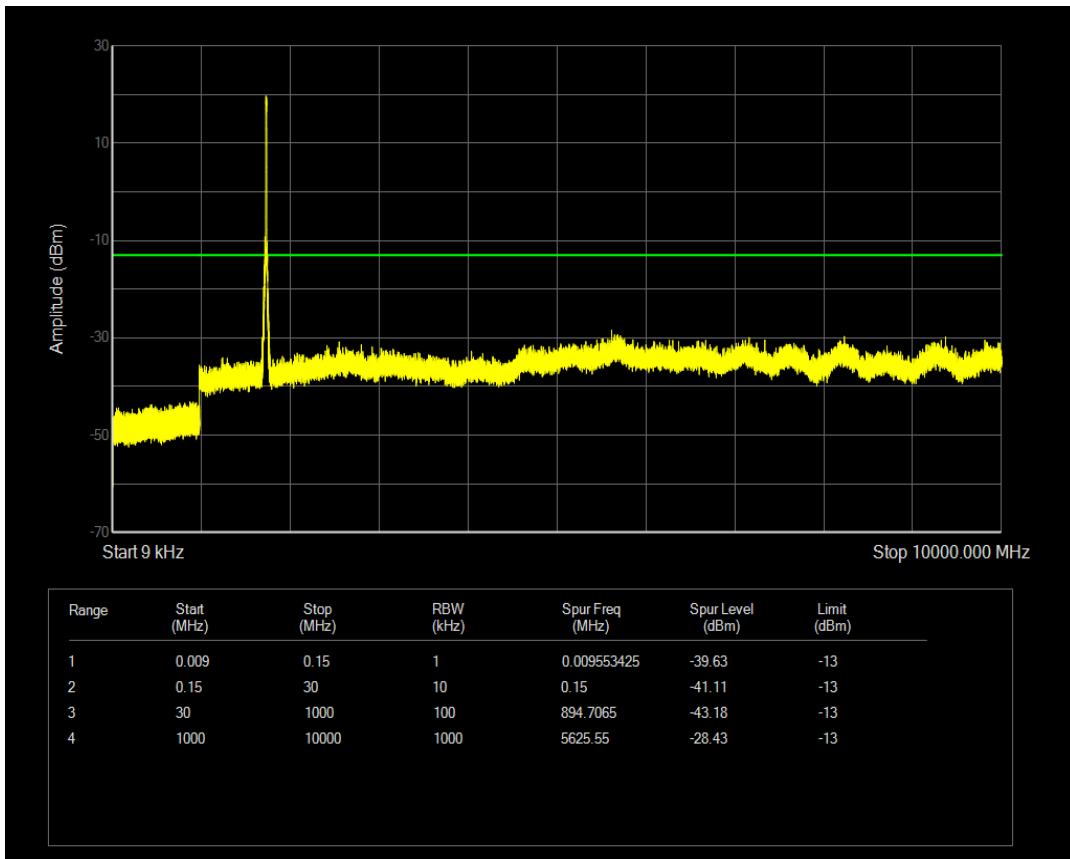


Band4 QAM16 BW=10MHz Channel=20175 RB Size=50 Position=#0



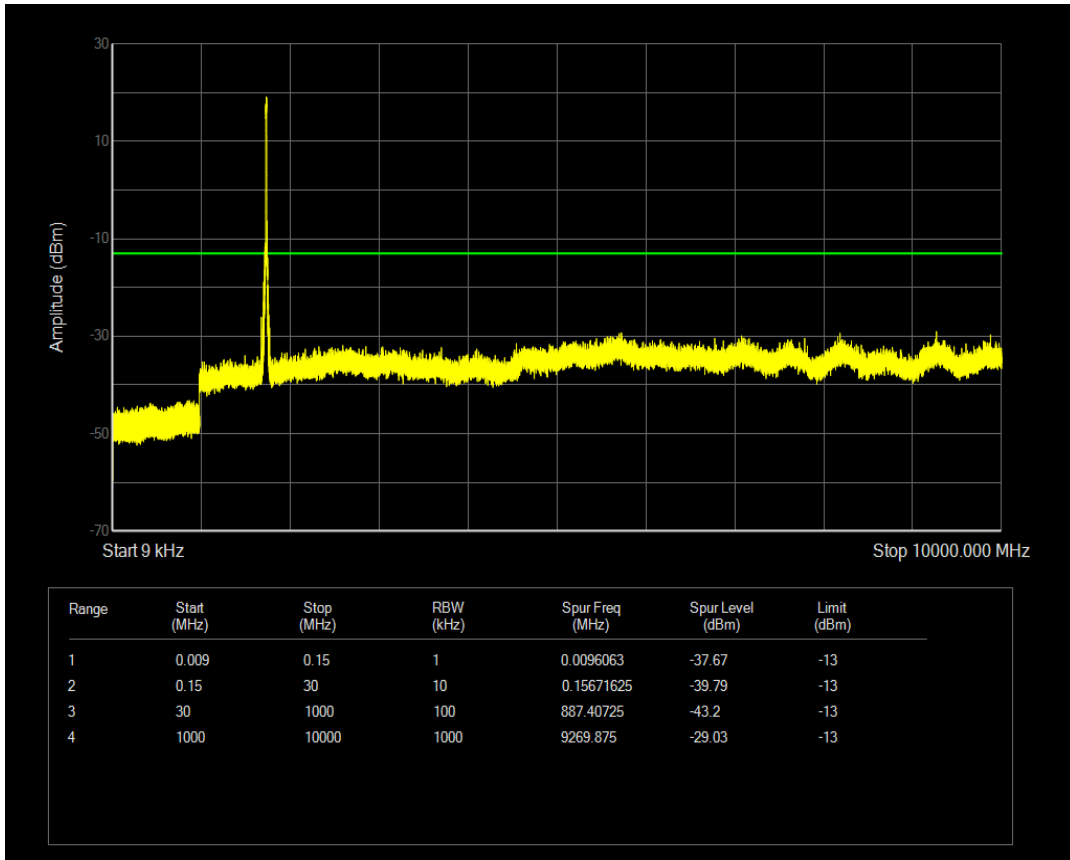


Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

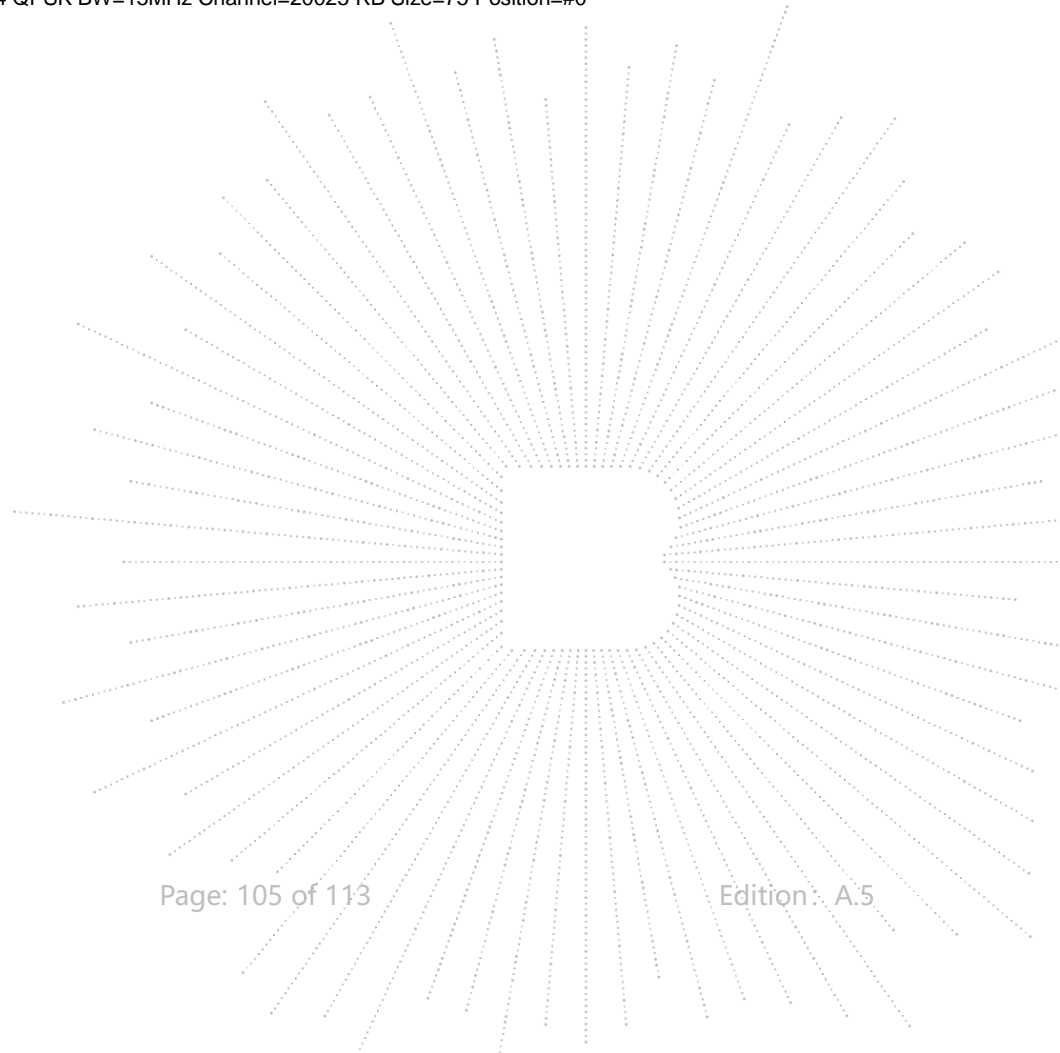


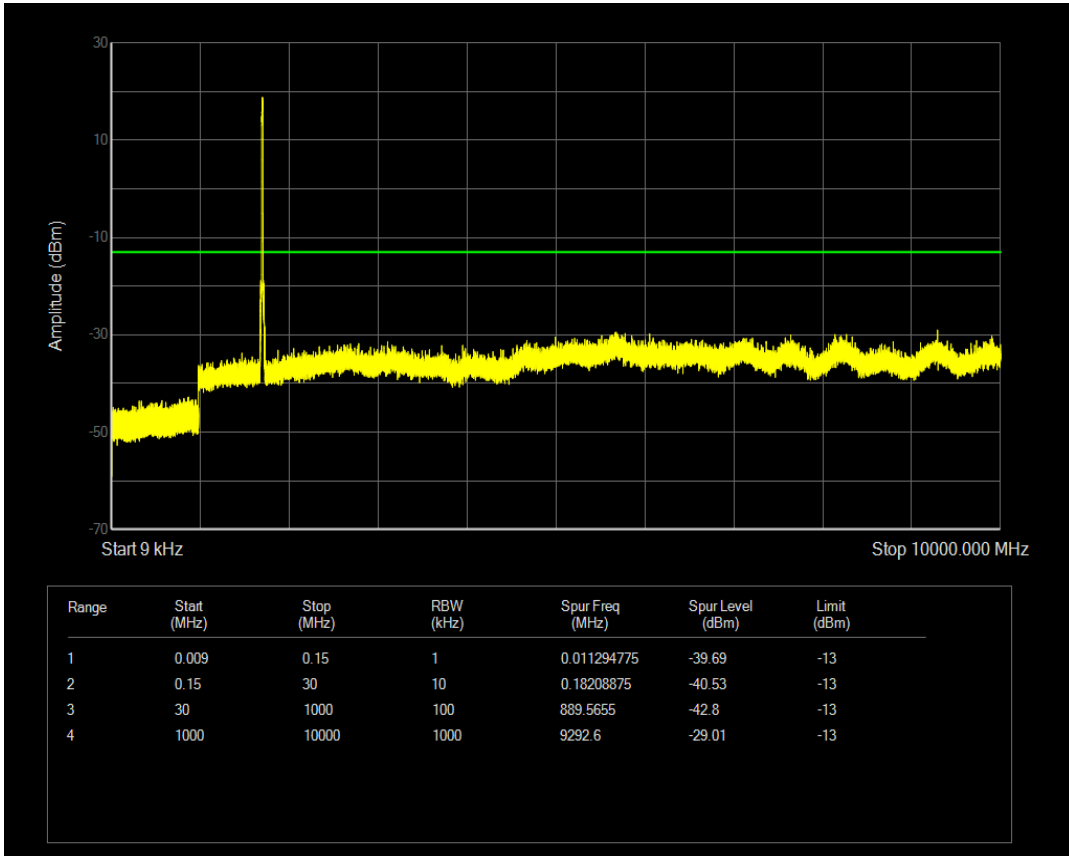


Band4 QAM16 BW=10MHz Channel=20350 RB Size=50 Position=#0

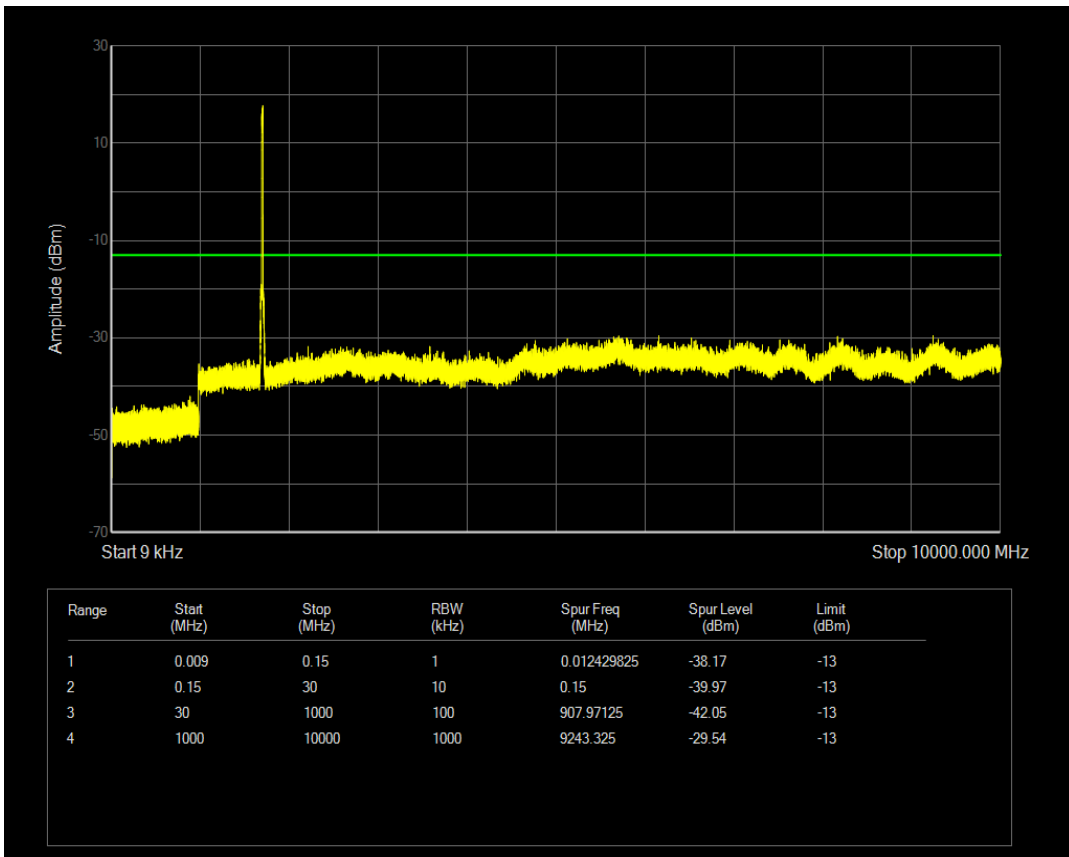


Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



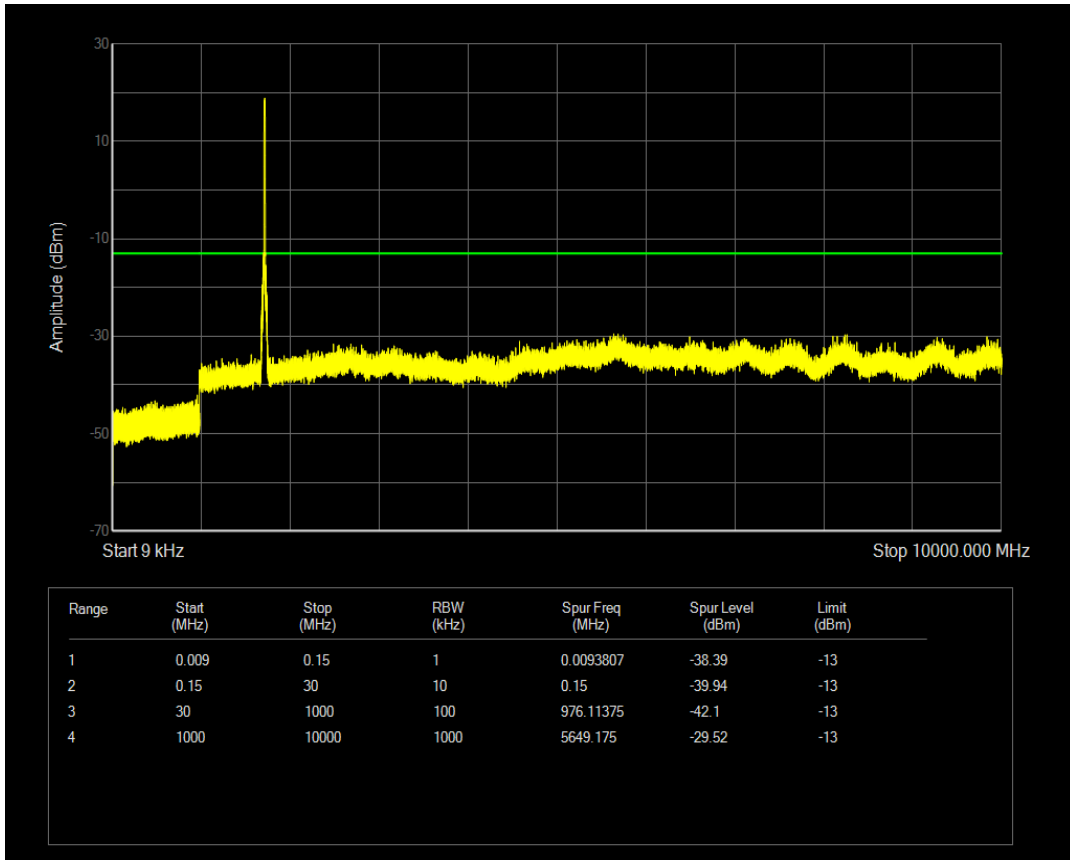


Band4 QAM16 BW=15MHz Channel=20025 RB Size=75 Position=#0

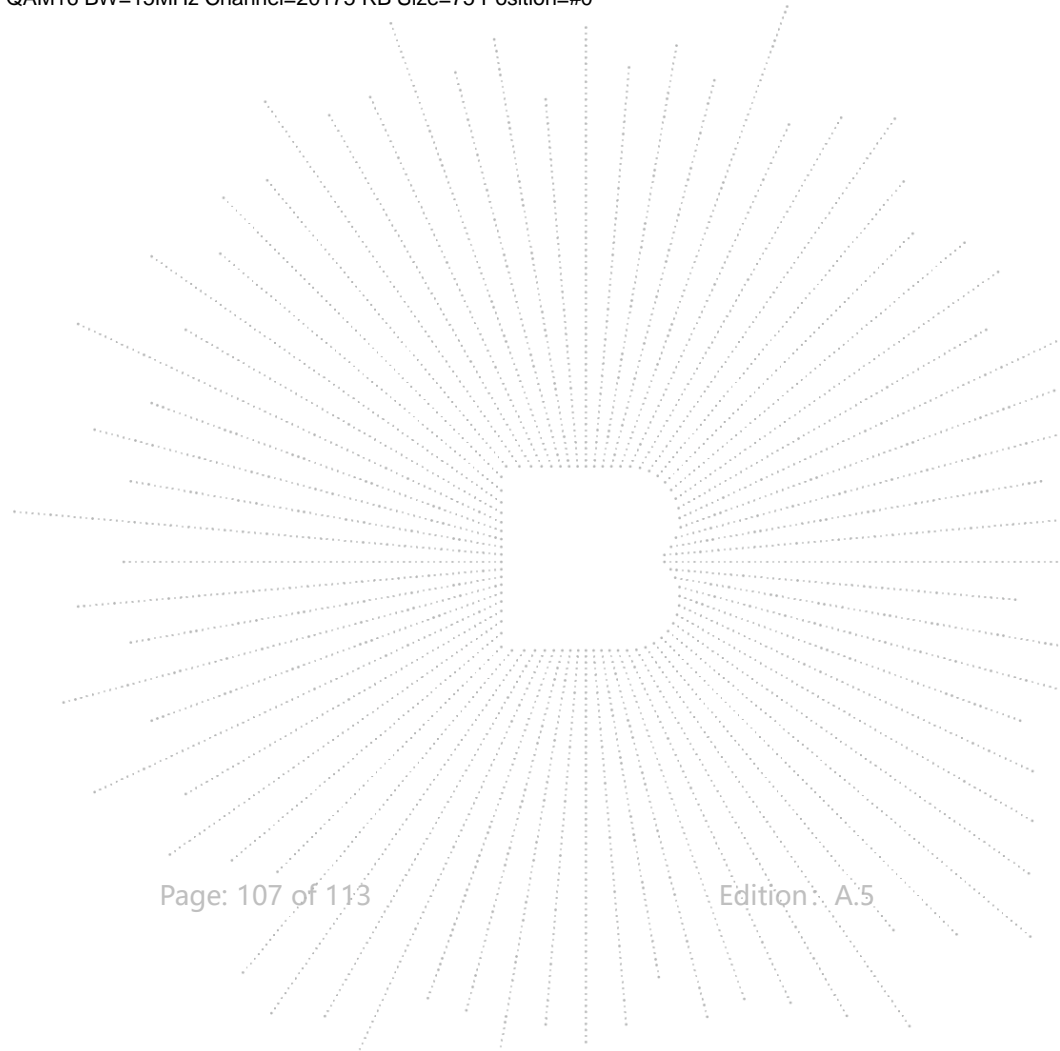


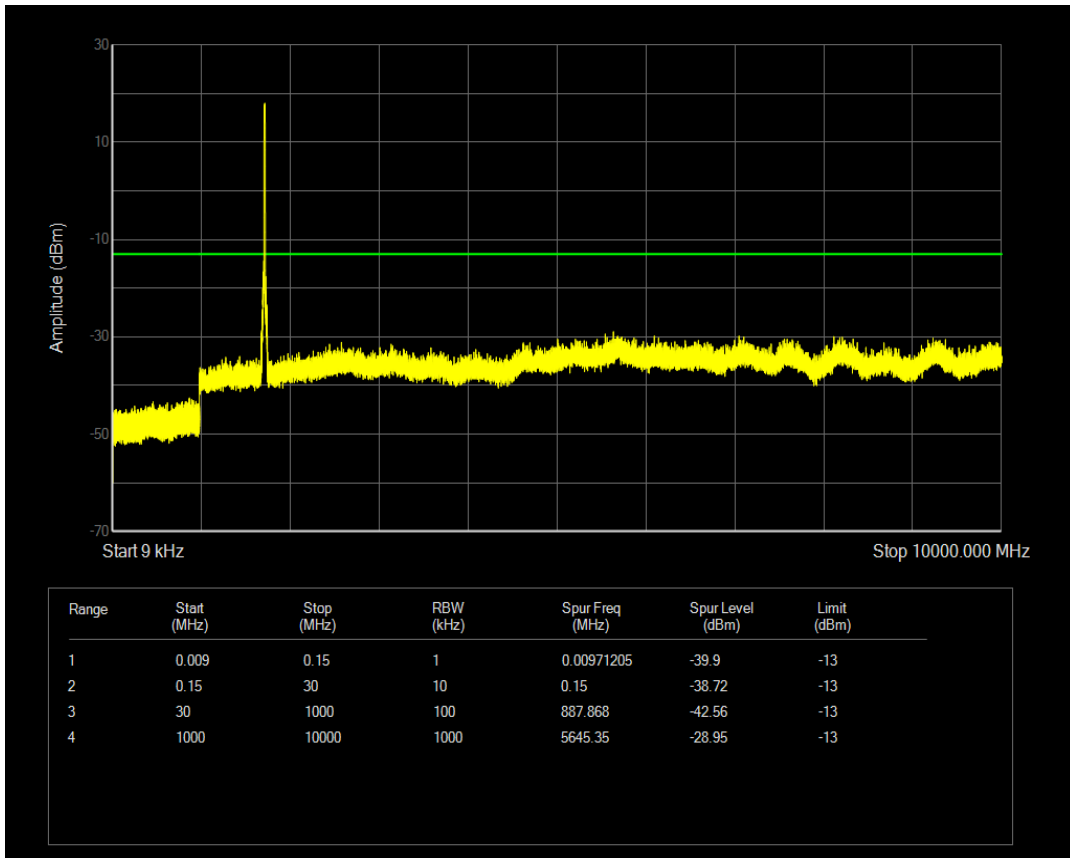


Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0

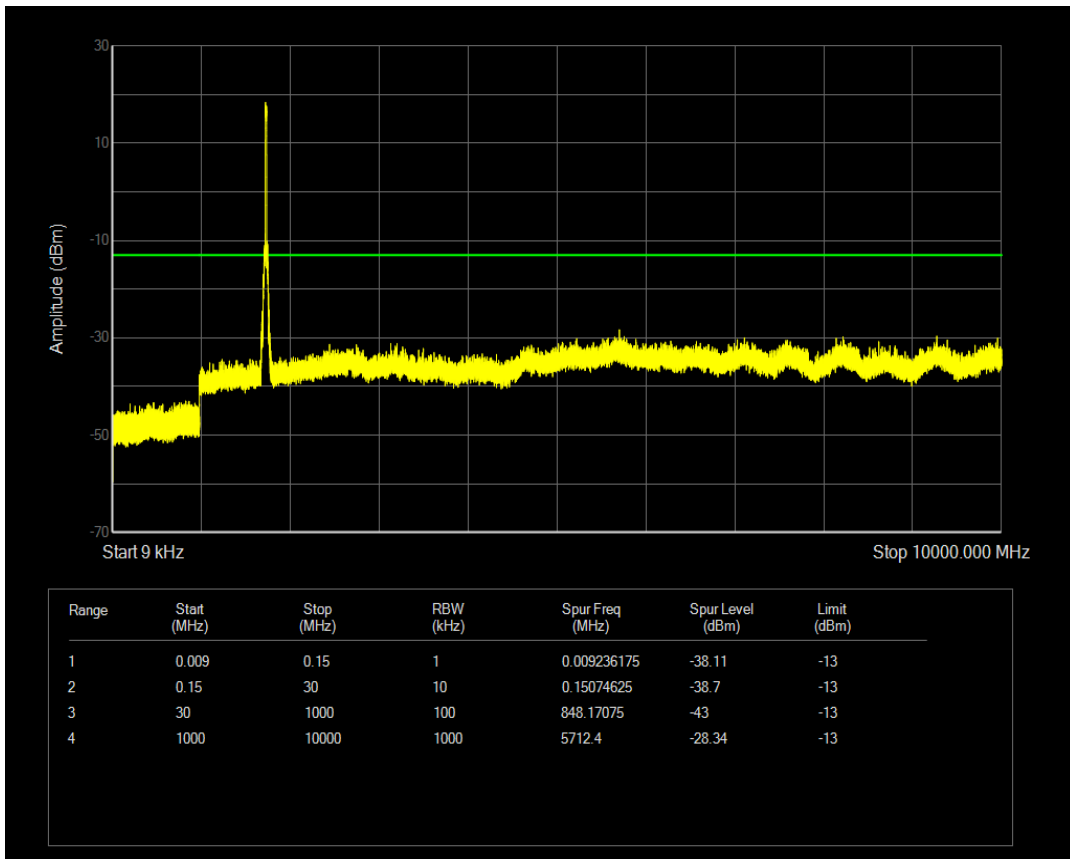


Band4 QAM16 BW=15MHz Channel=20175 RB Size=75 Position=#0



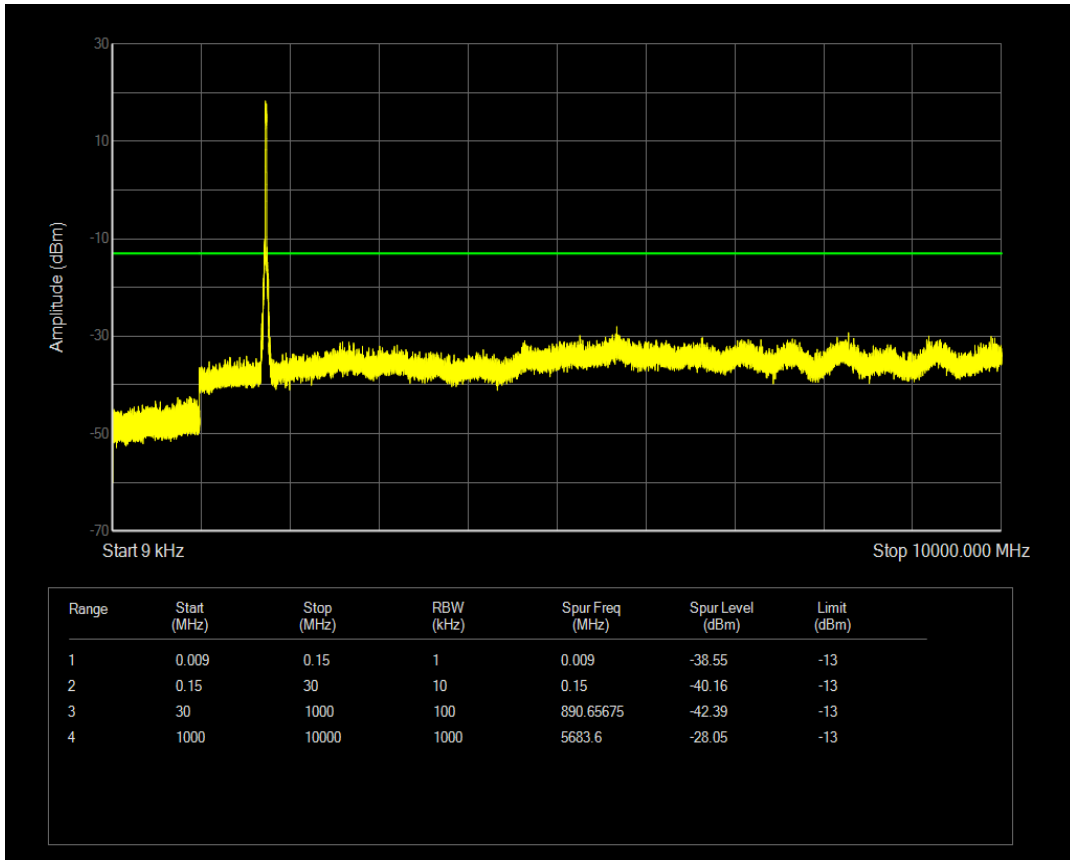


Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0

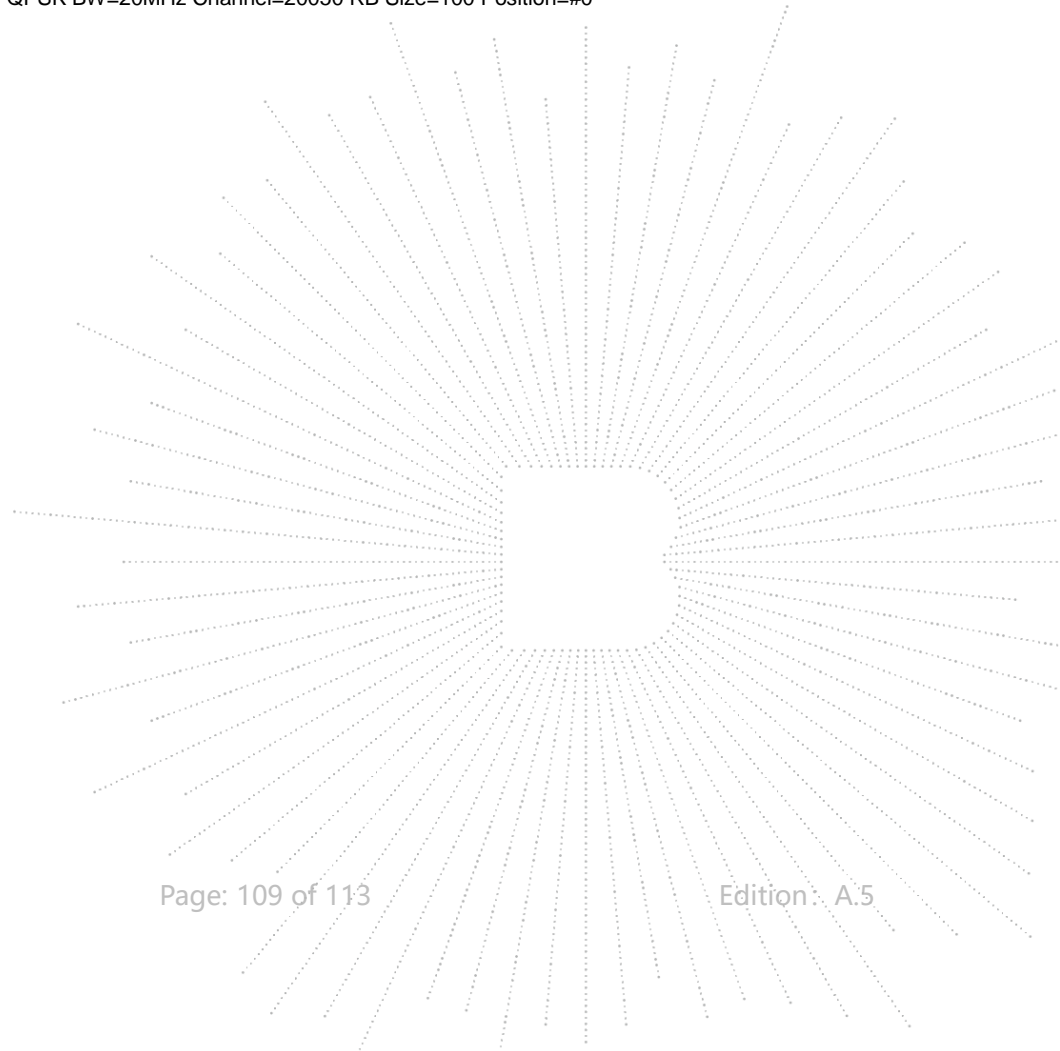


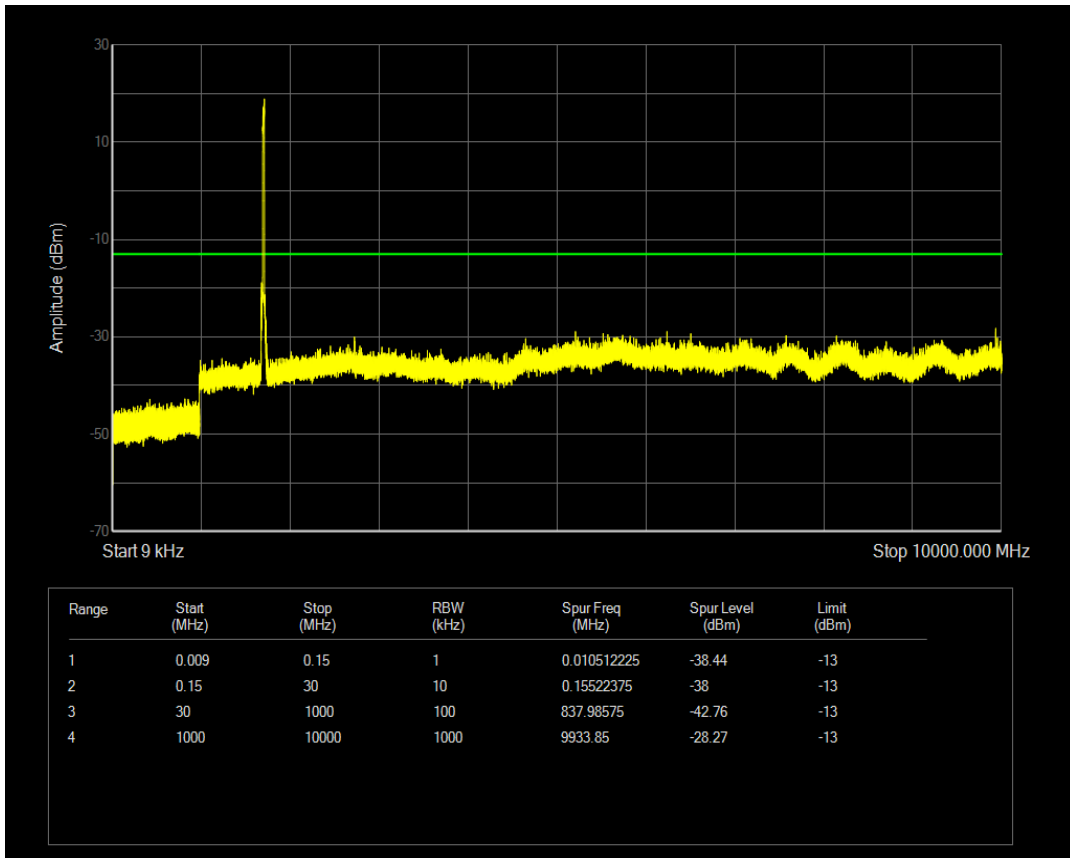


Band4 QAM16 BW=15MHz Channel=20325 RB Size=75 Position=#0

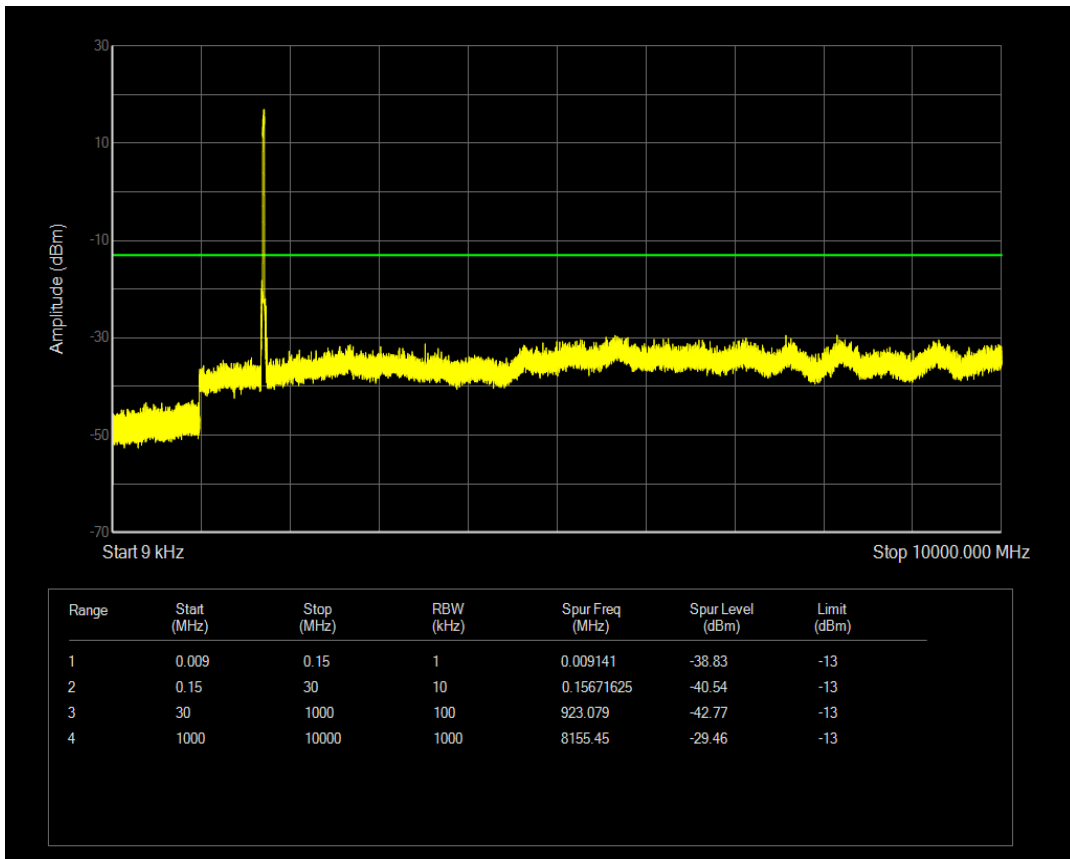


Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



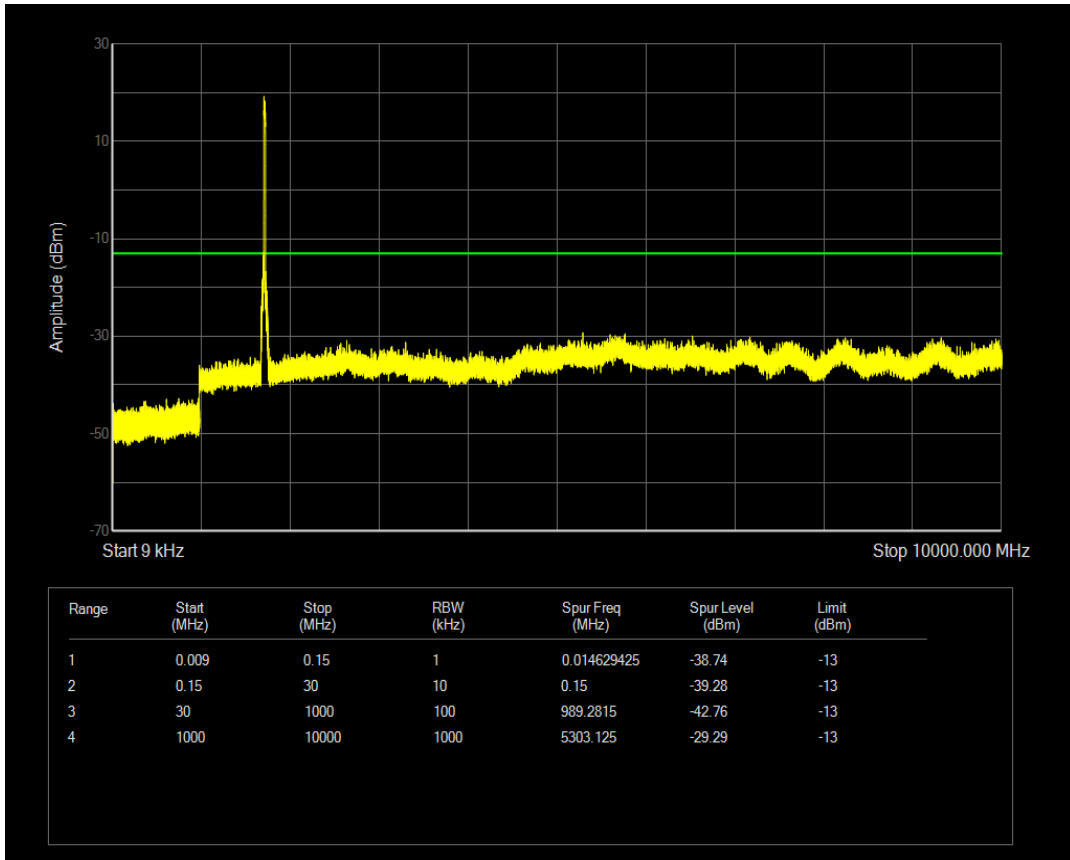


Band4 QAM16 BW=20MHz Channel=20050 RB Size=100 Position=#0

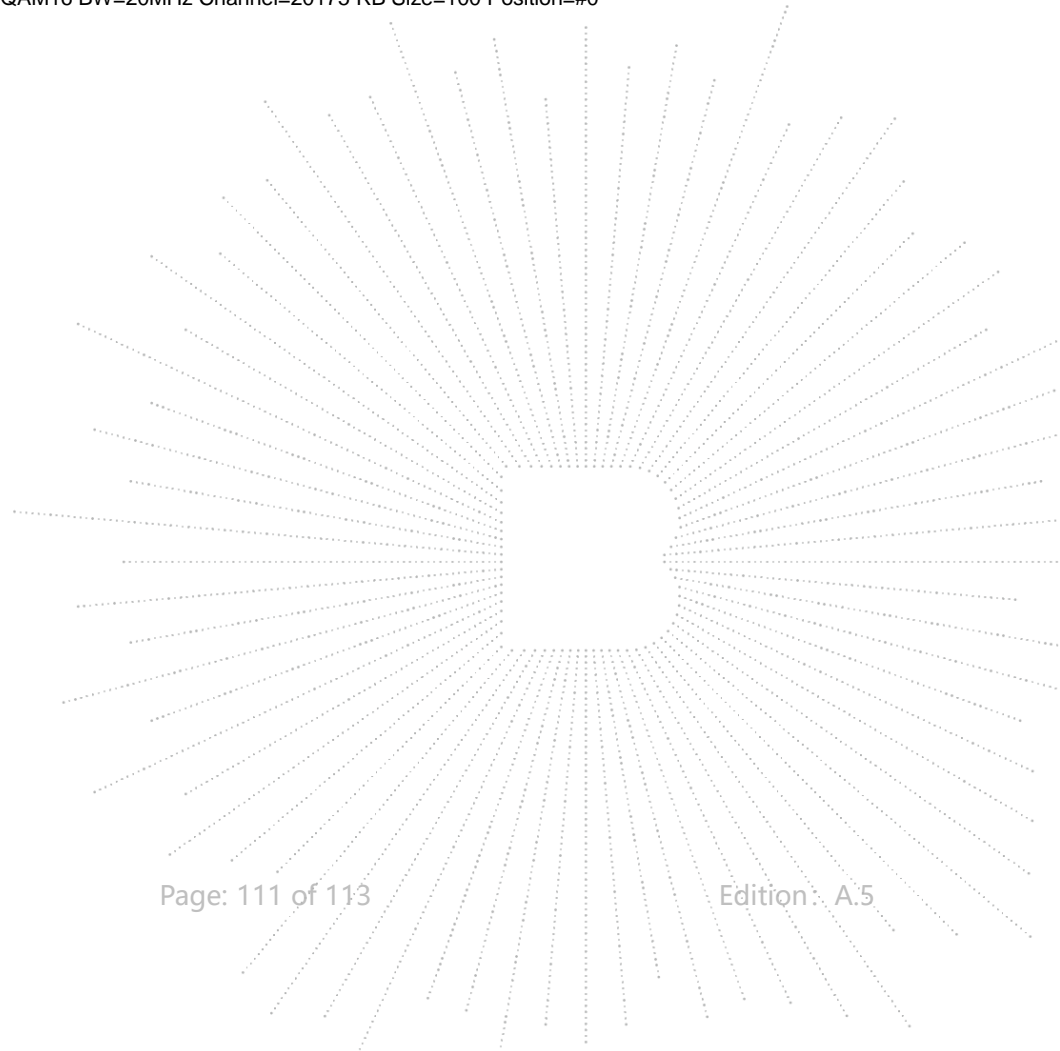


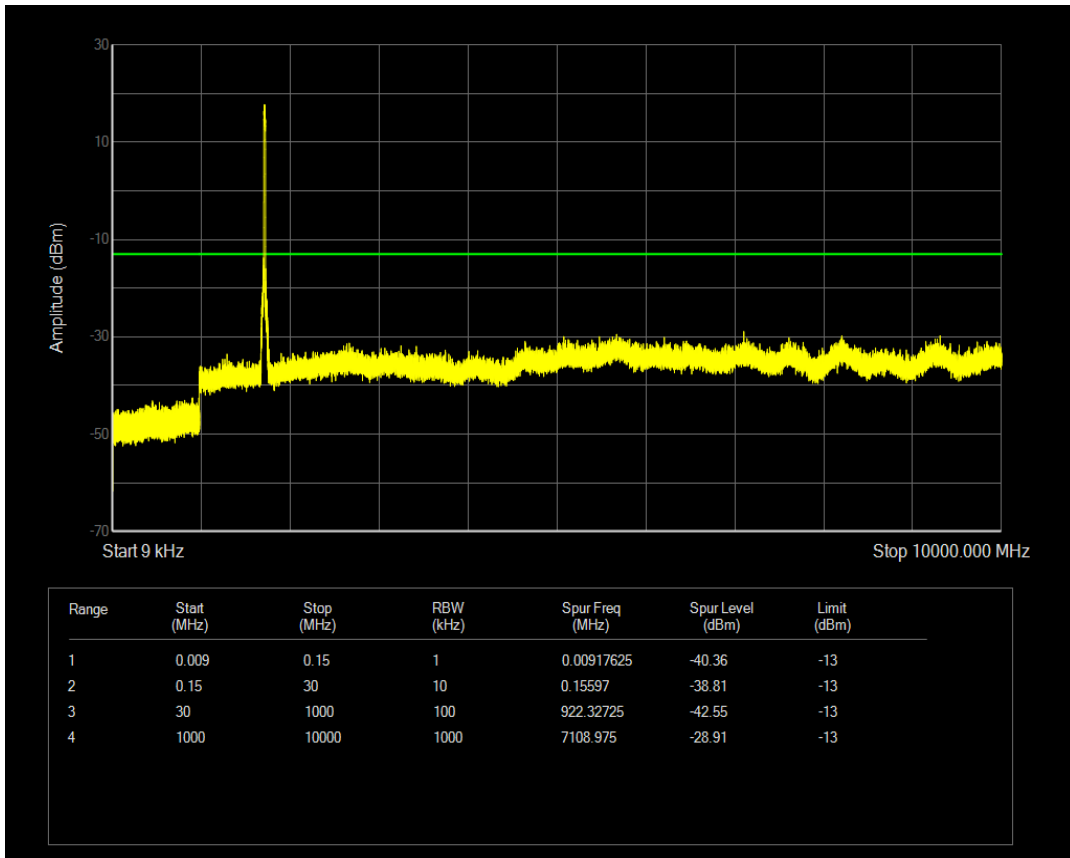


Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0

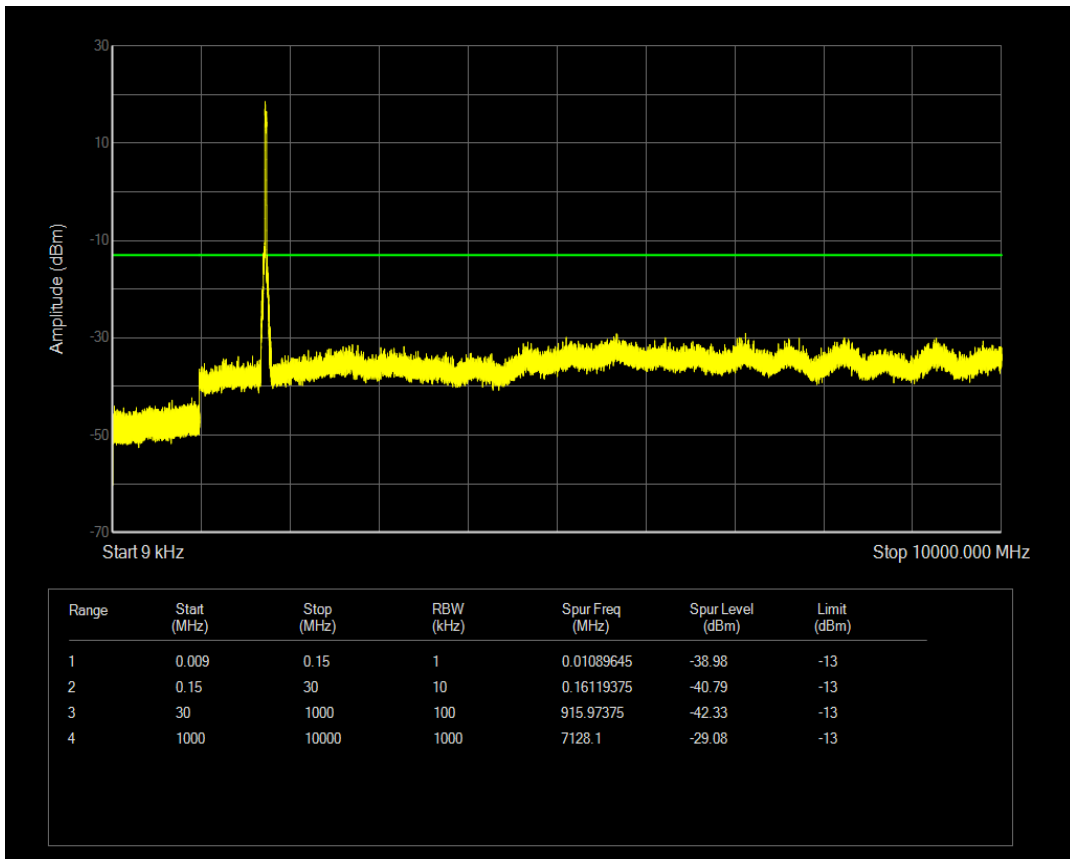


Band4 QAM16 BW=20MHz Channel=20175 RB Size=100 Position=#0





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





Band4 QAM16 BW=20MHz Channel=20300 RB Size=100 Position=#0

