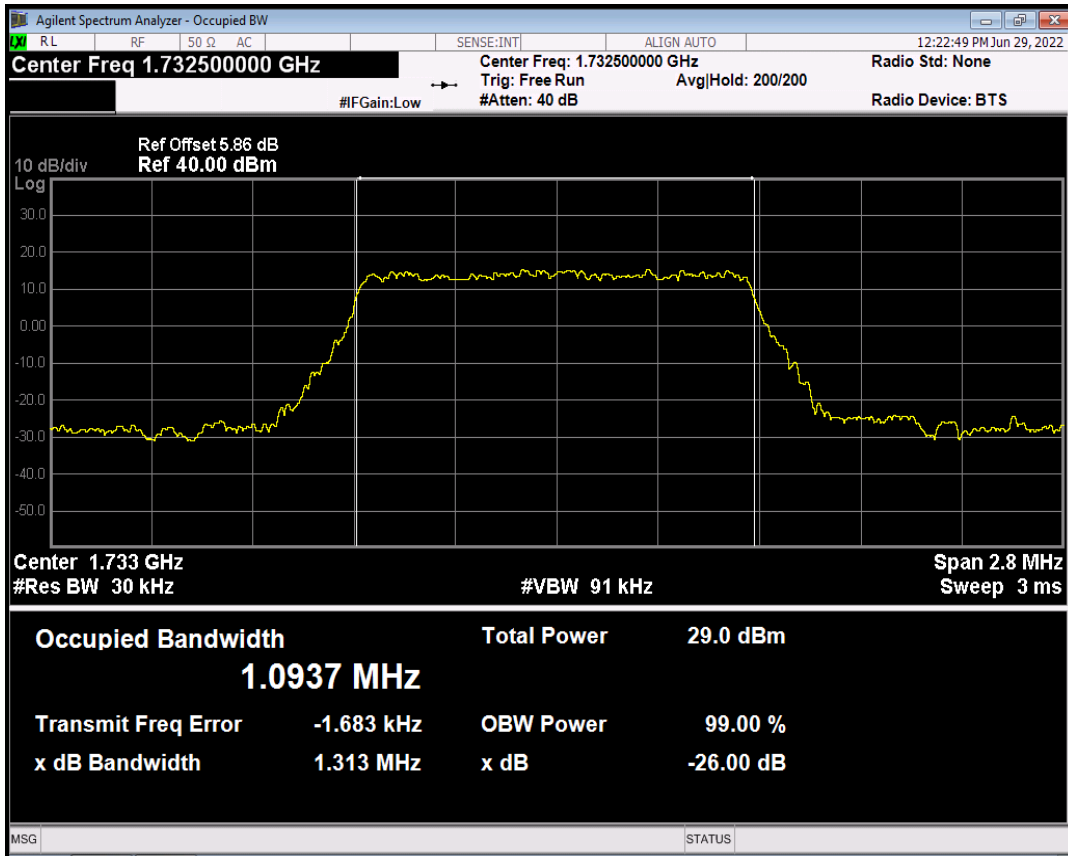
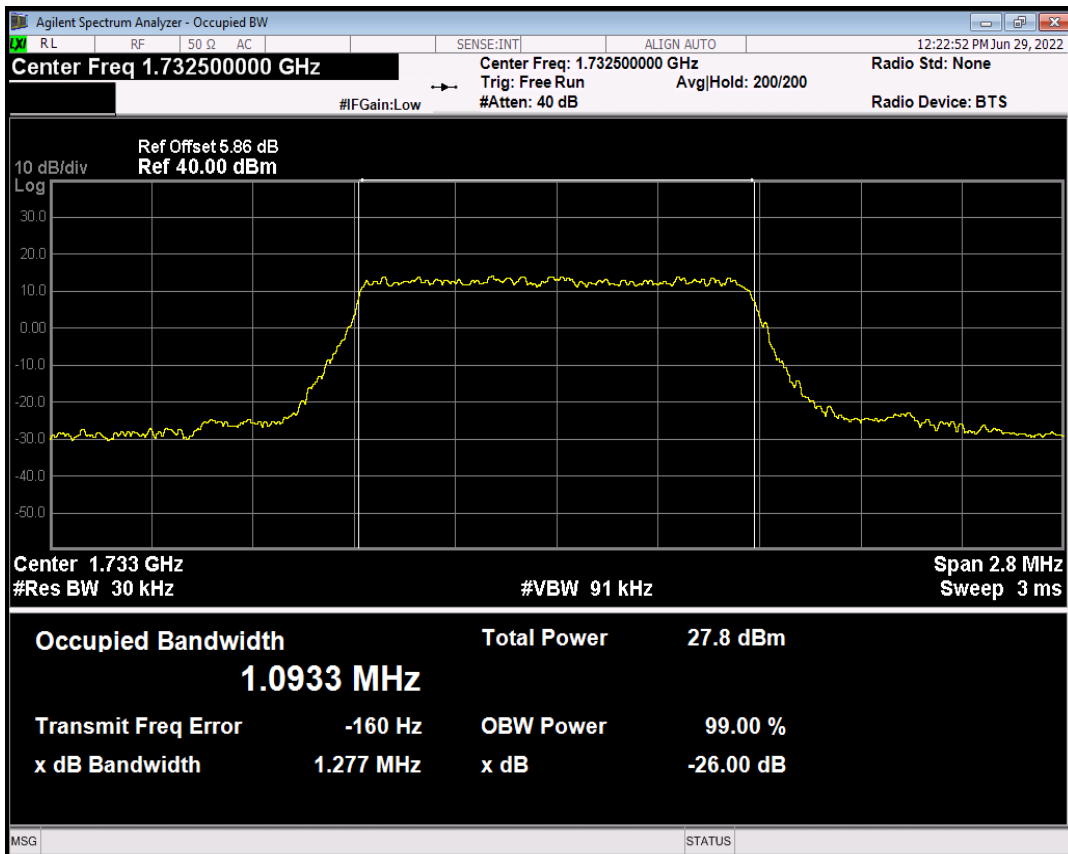




Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0

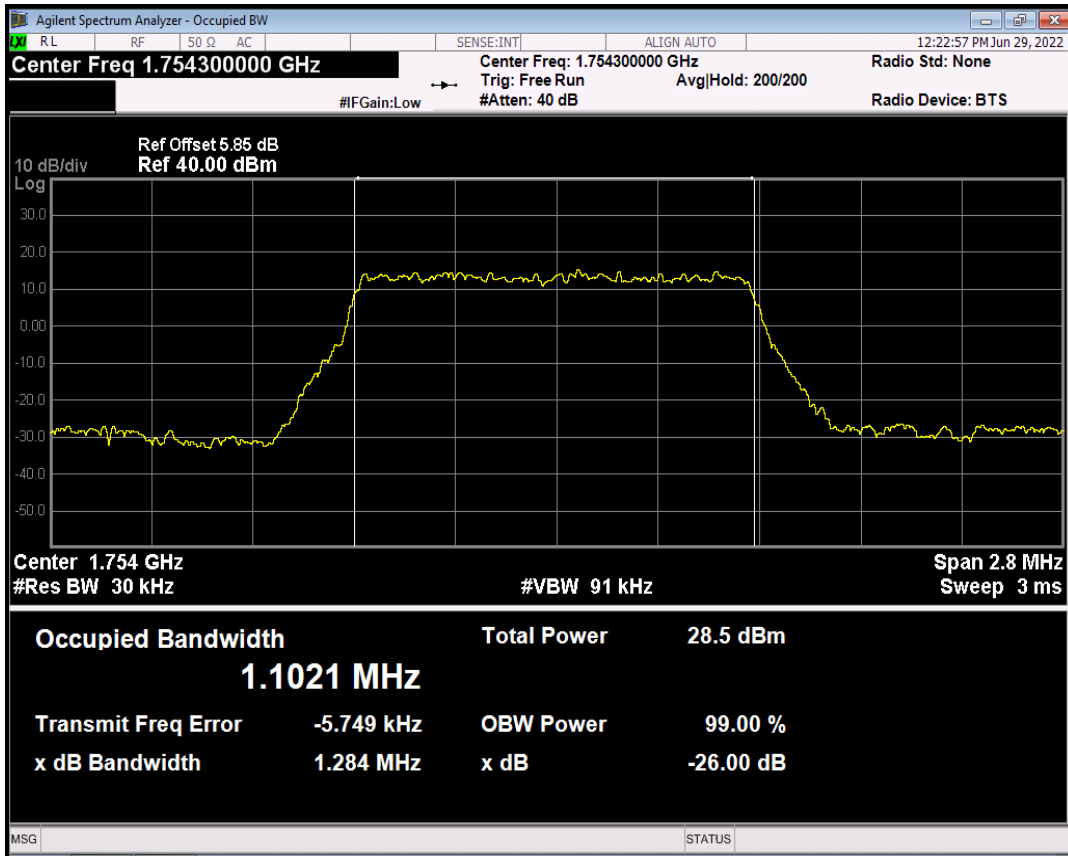


Band4 QAM16 BW=1.4MHz Channel=20175 RB Size=6 Position=#0

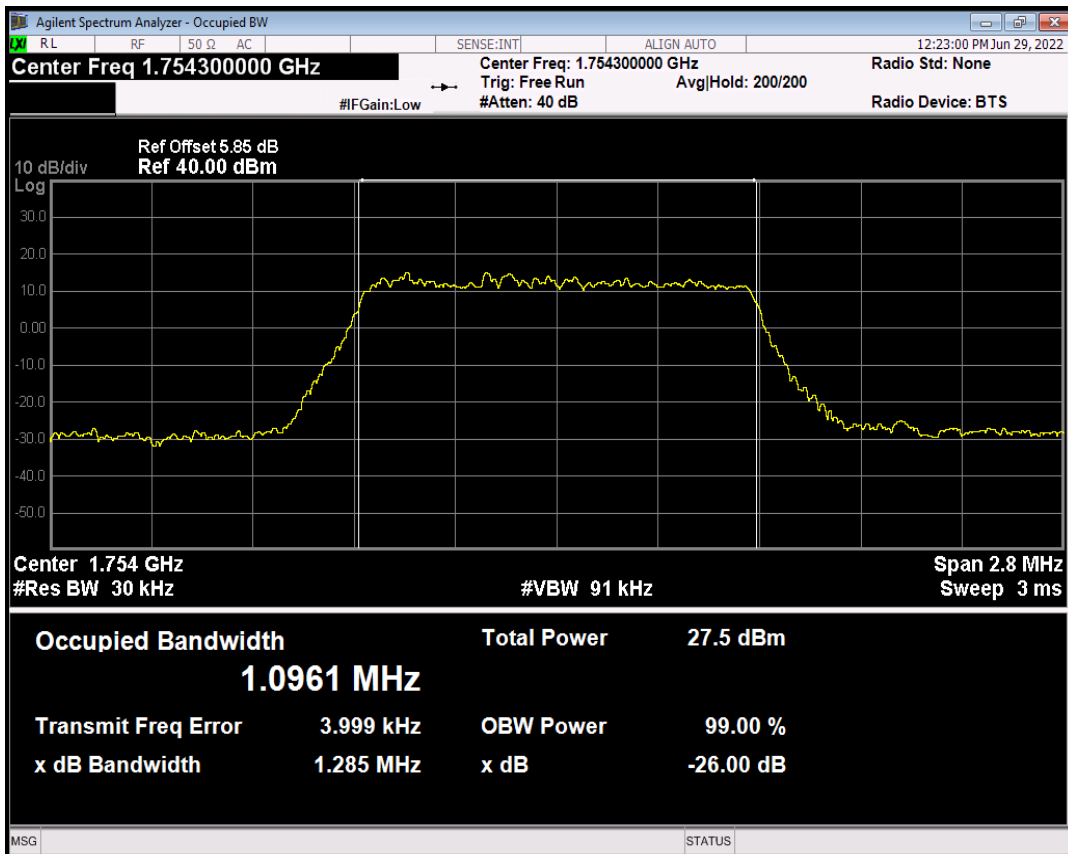




Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

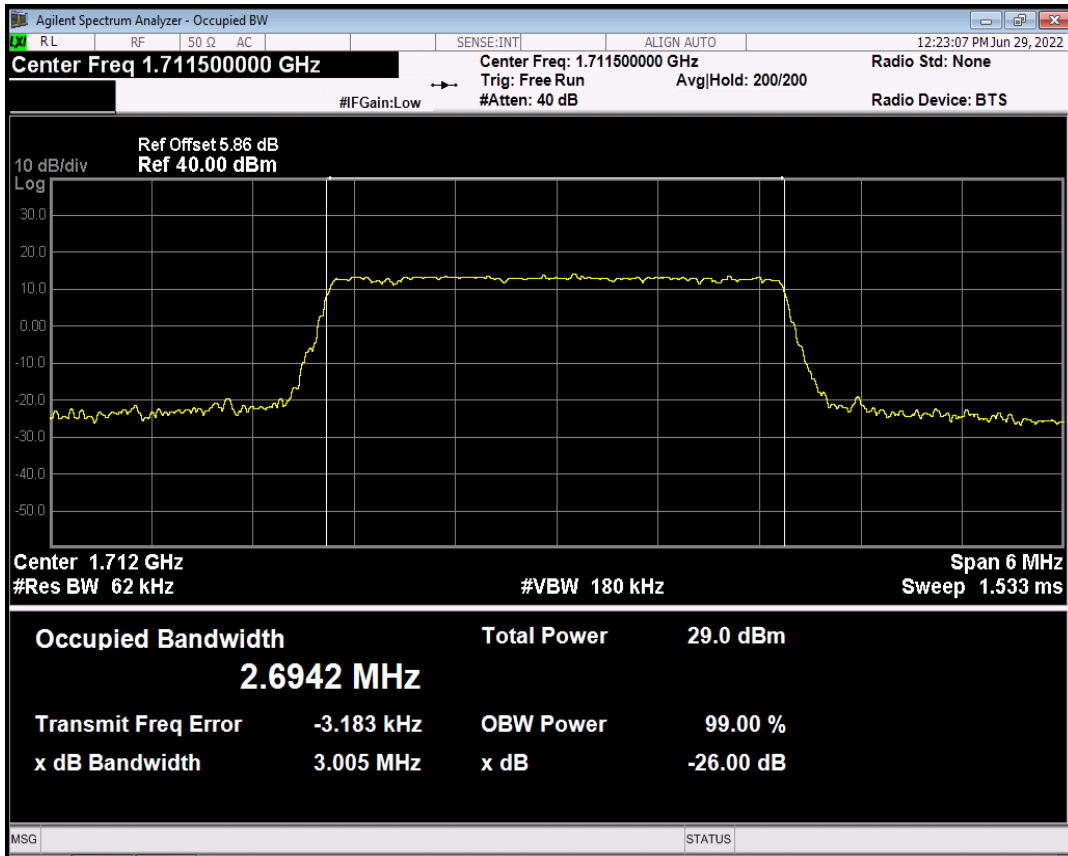


Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0

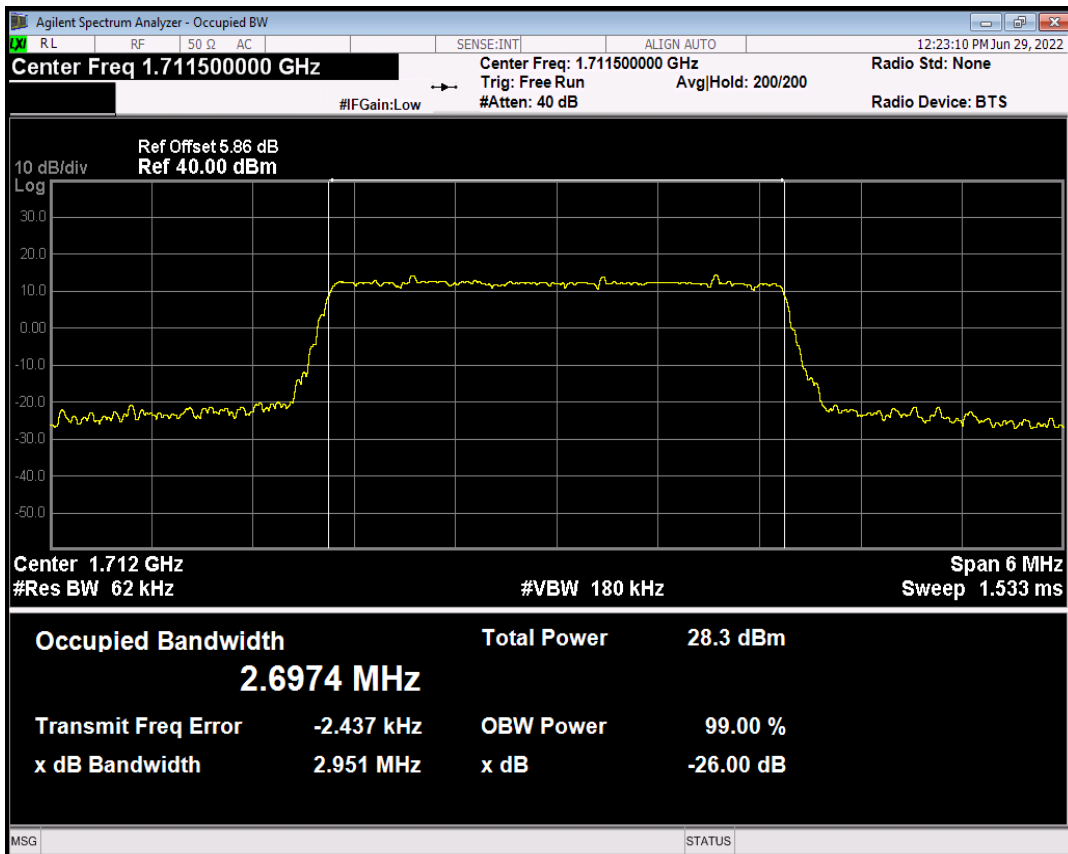




Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0

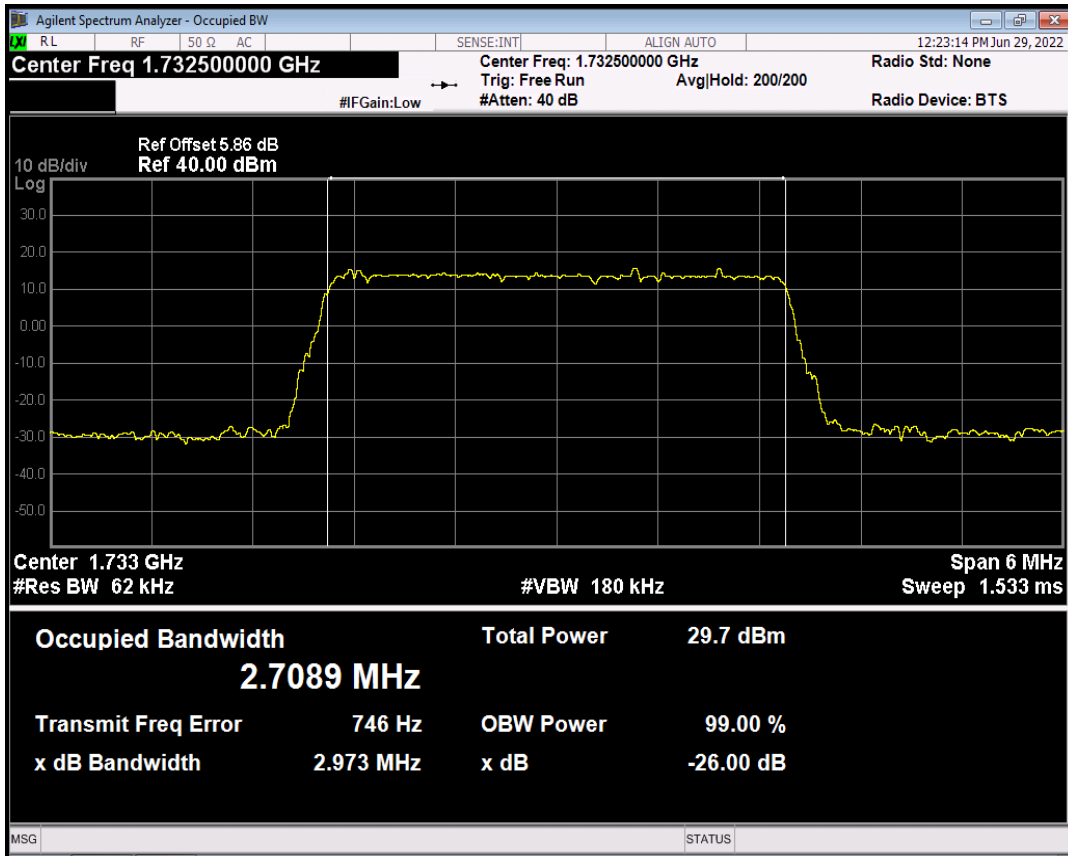


Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0

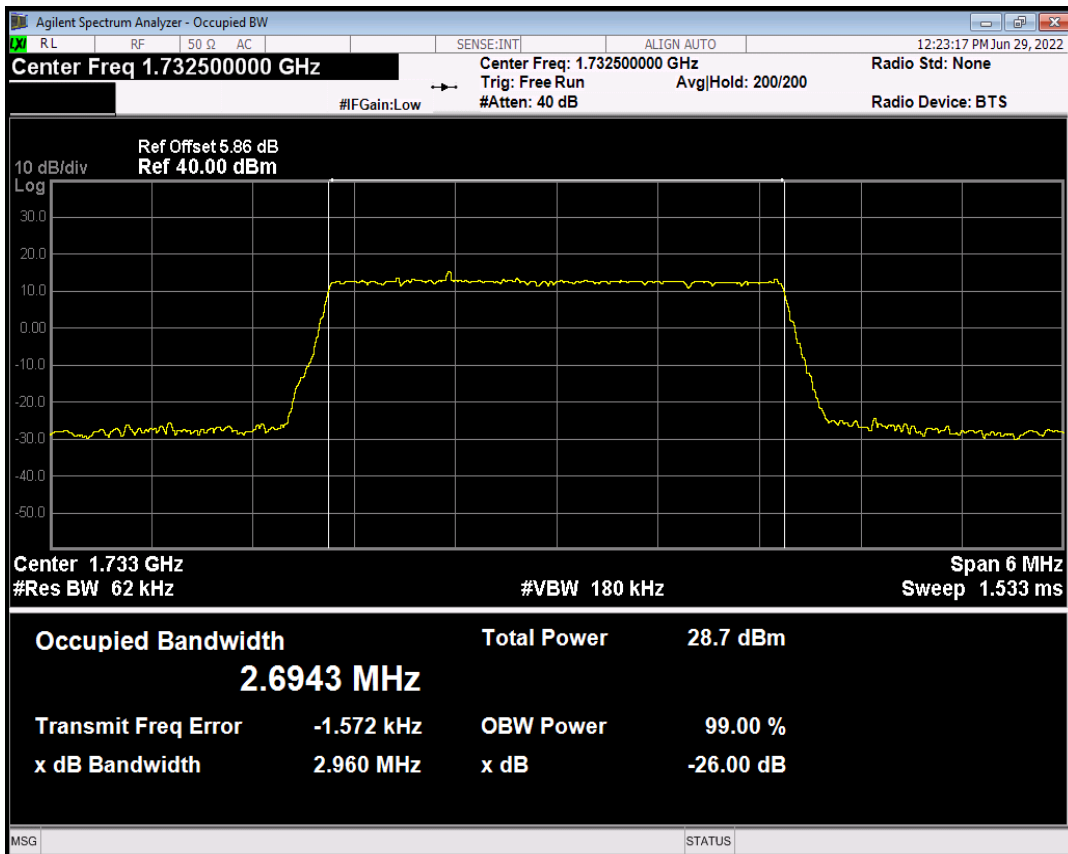




Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0

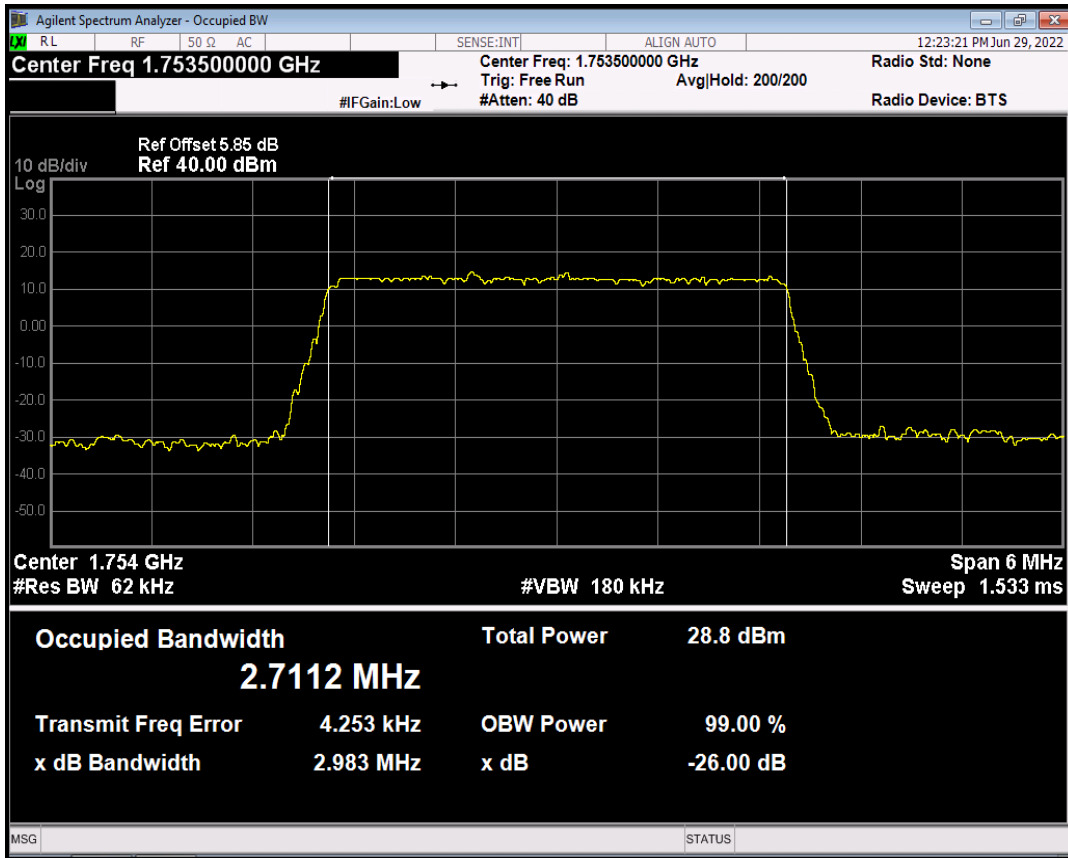


Band4 QAM16 BW=3MHz Channel=20175 RB Size=15 Position=#0

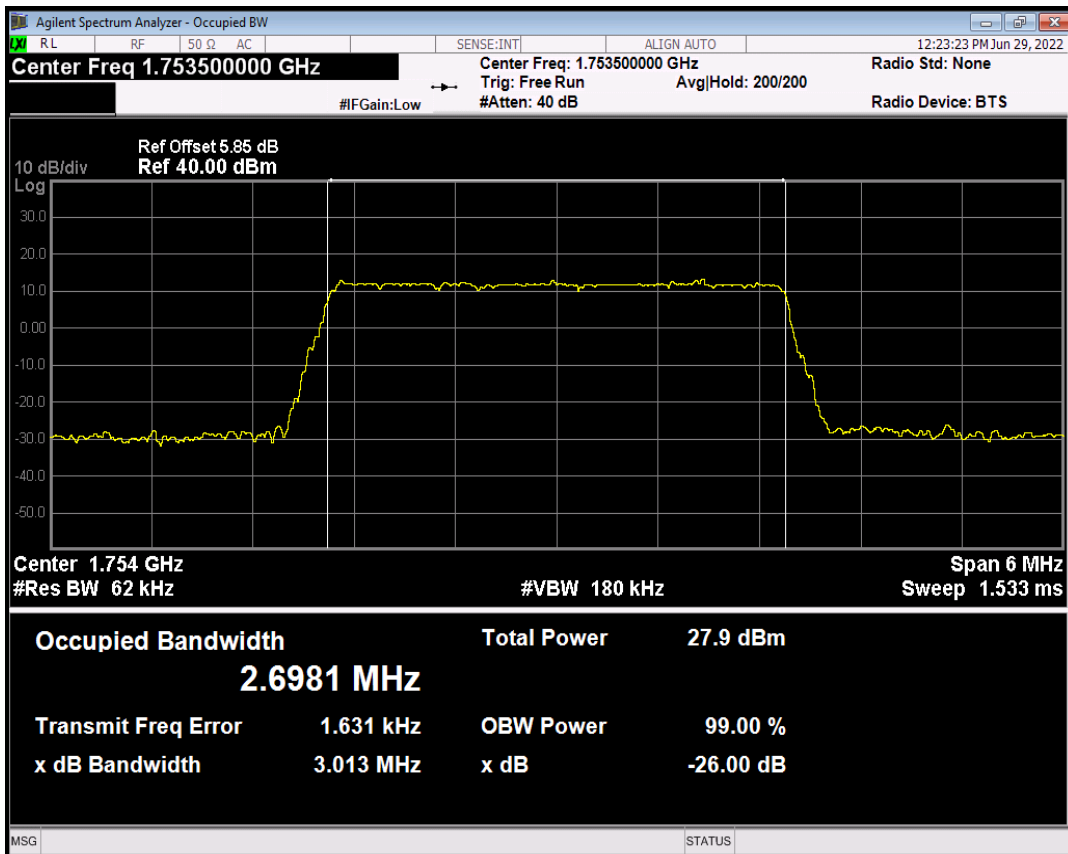




Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

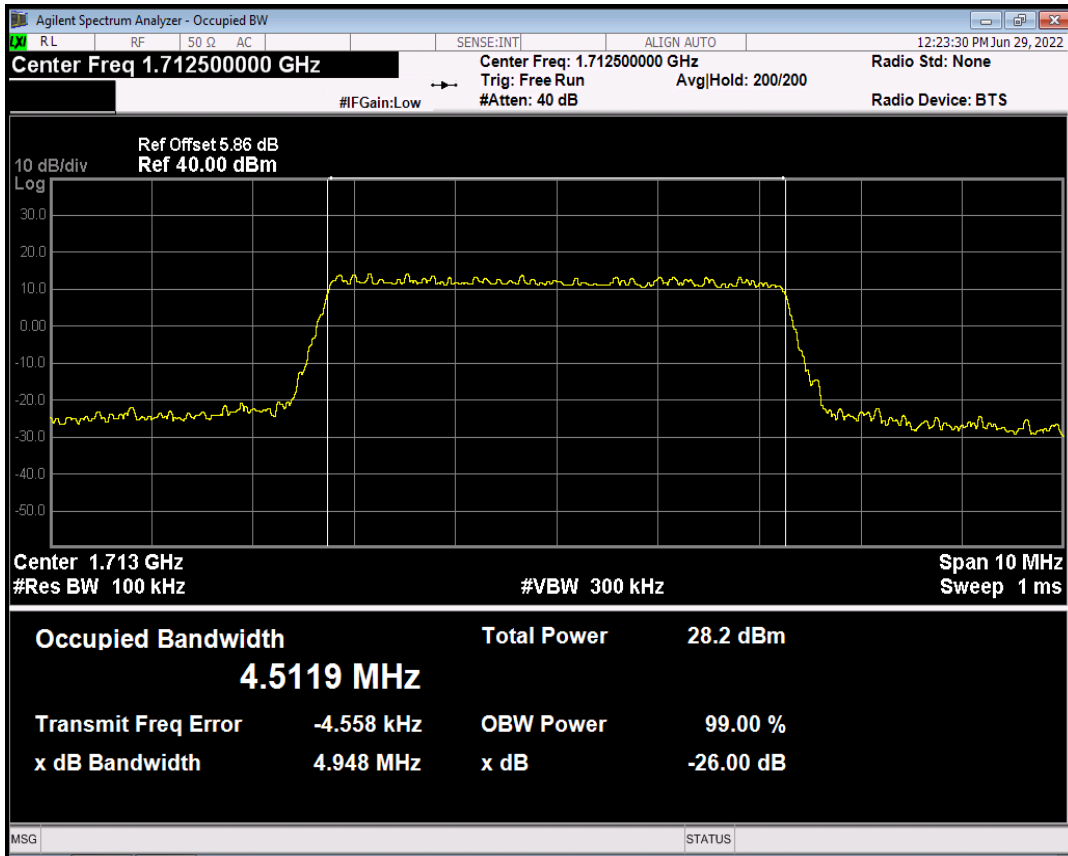


Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0

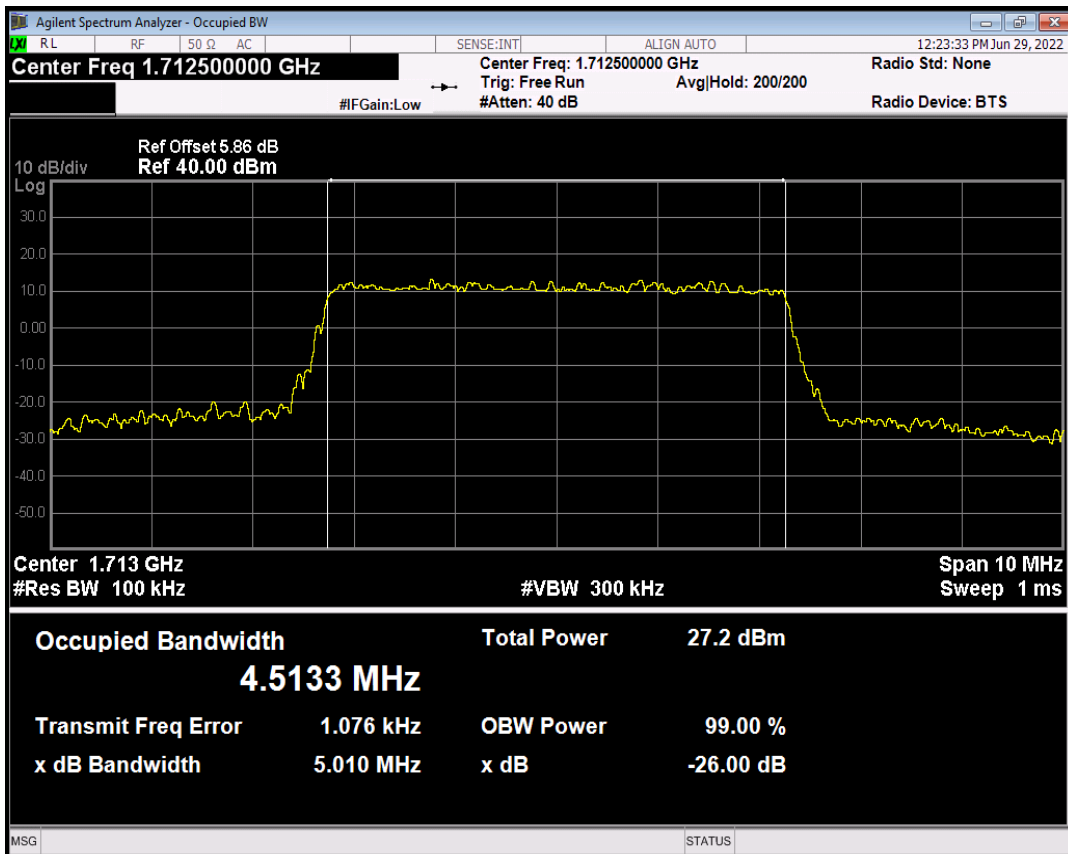




Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0

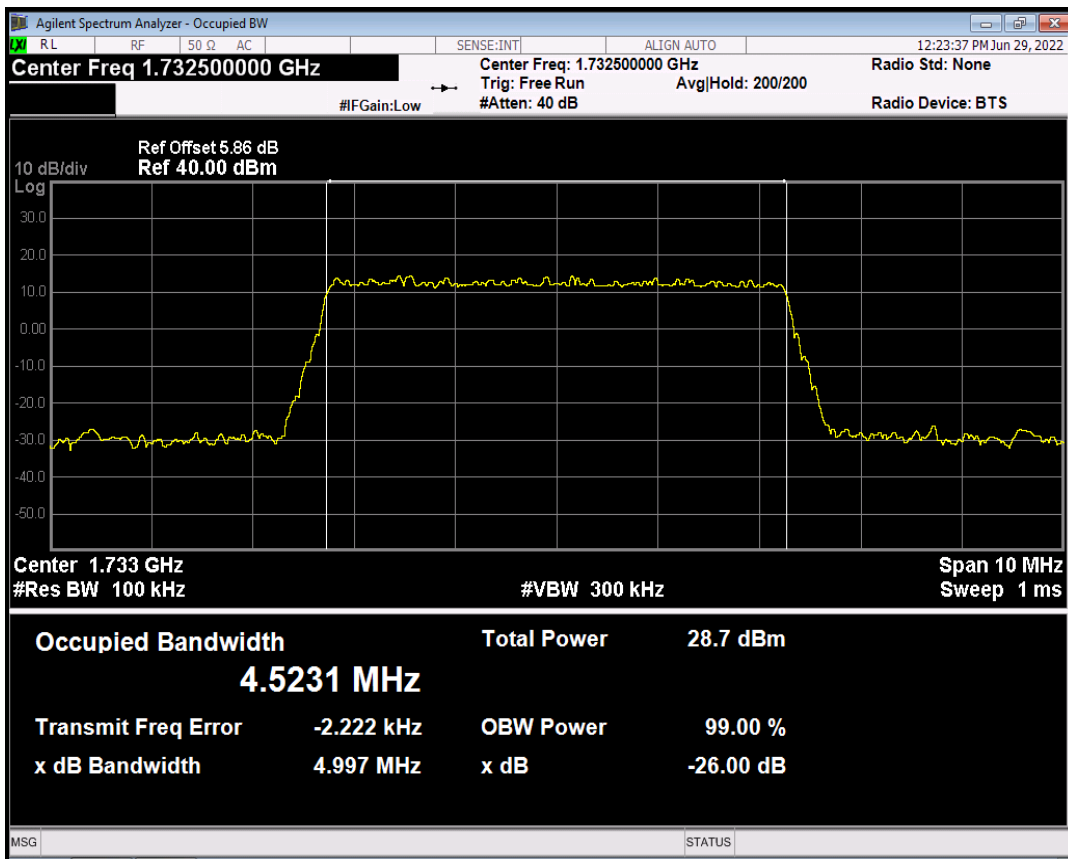


Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0

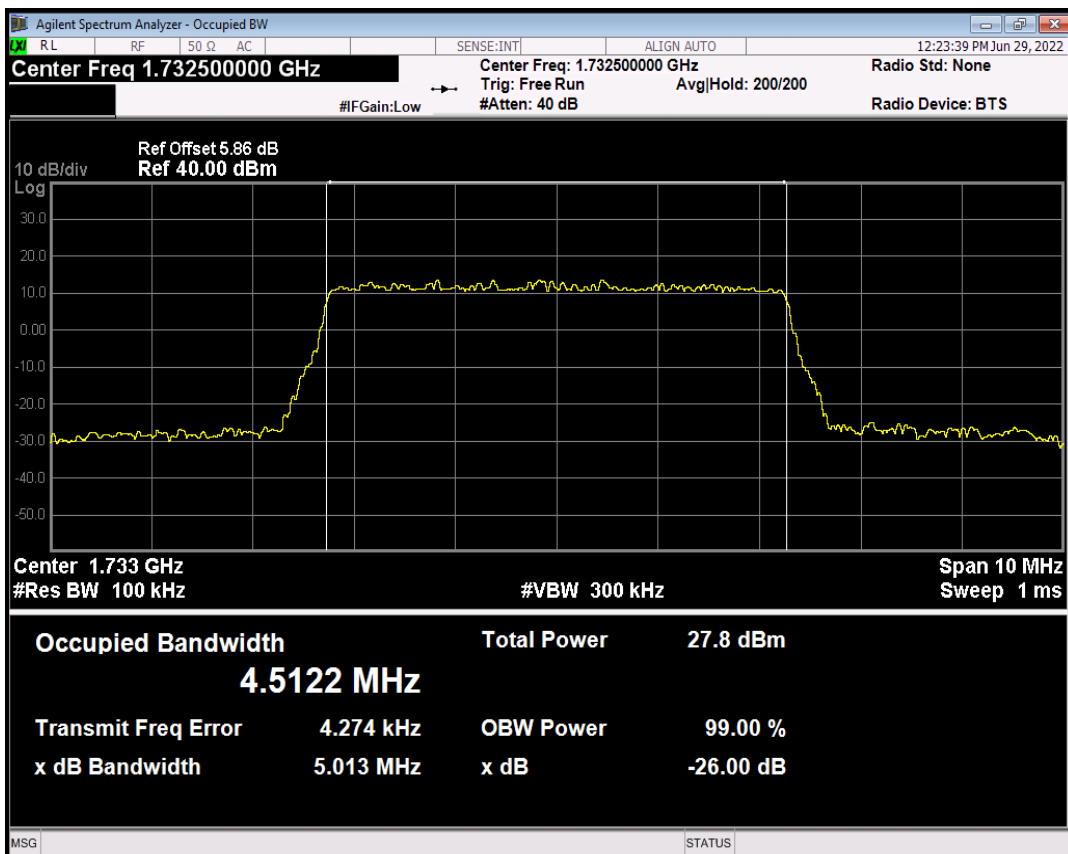




Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0

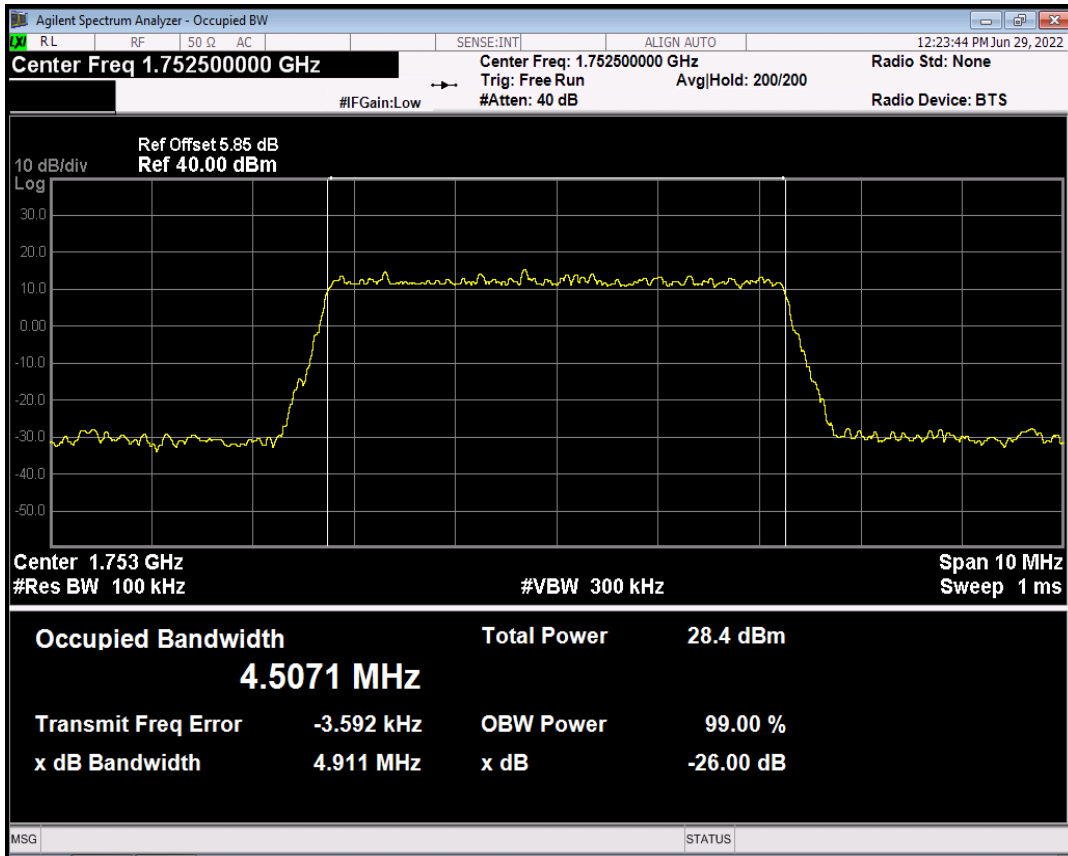


Band4 QAM16 BW=5MHz Channel=20175 RB Size=25 Position=#0

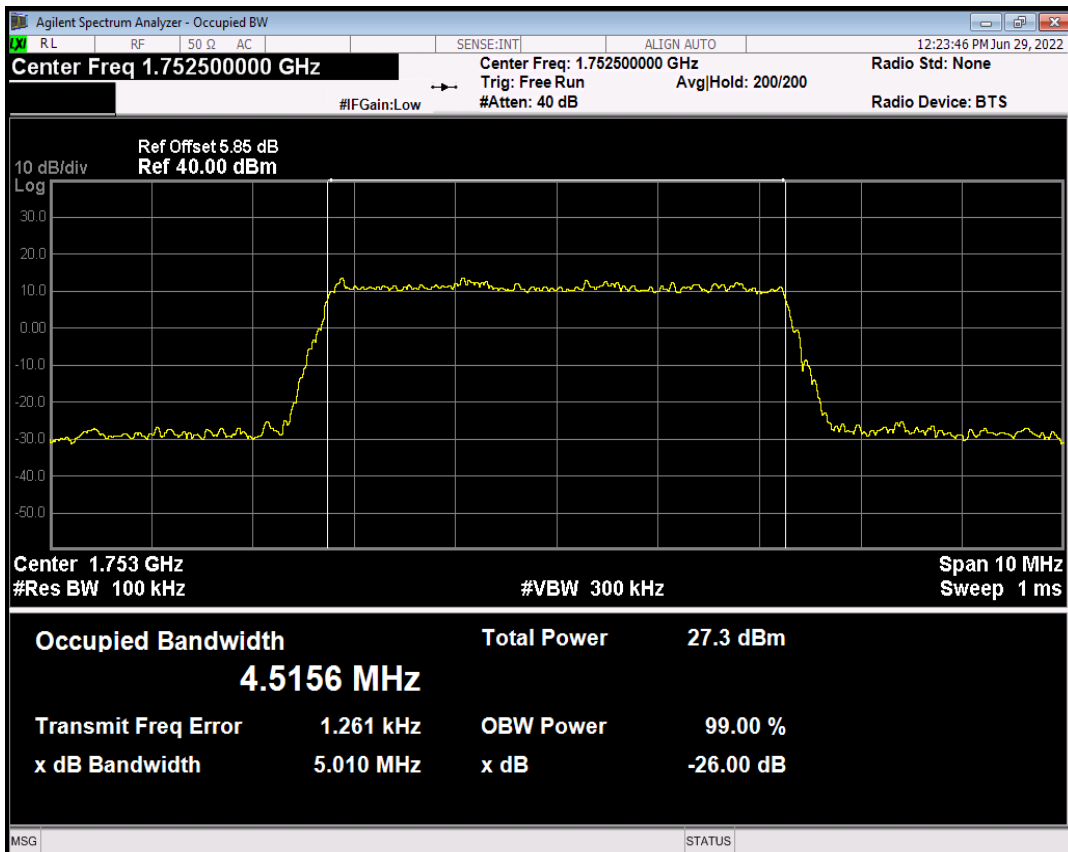




Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

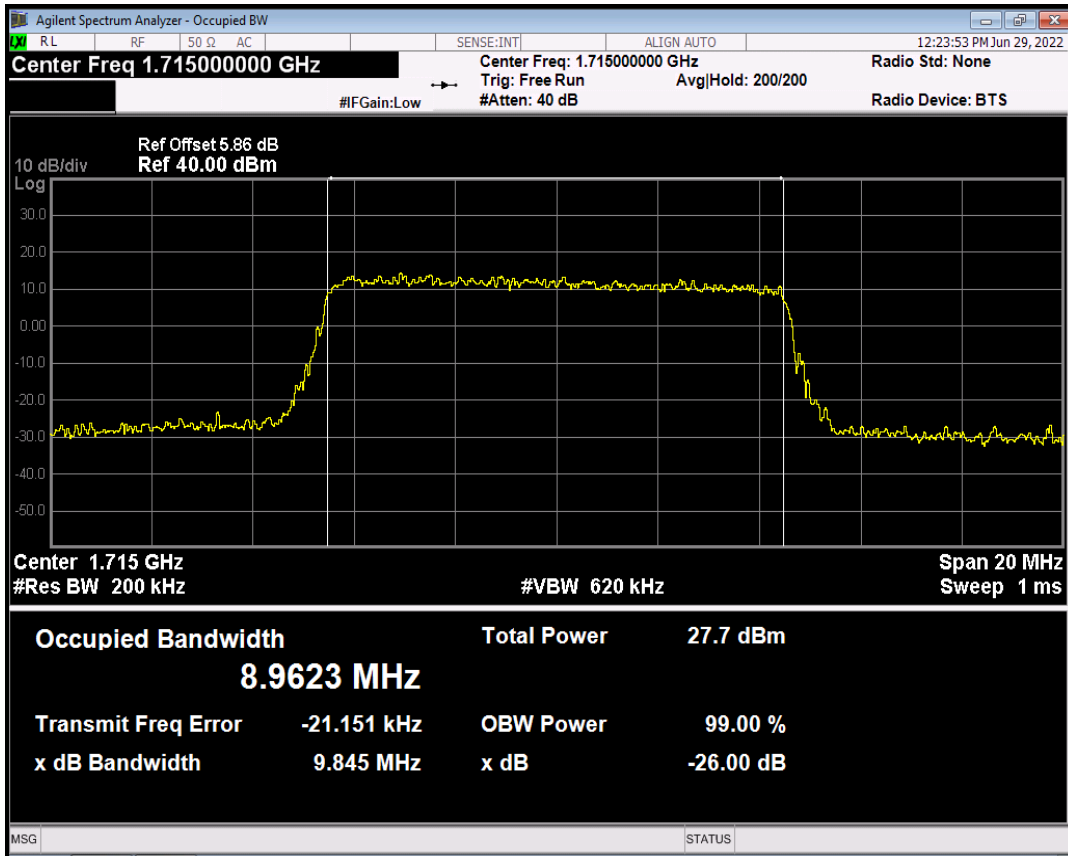


Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0

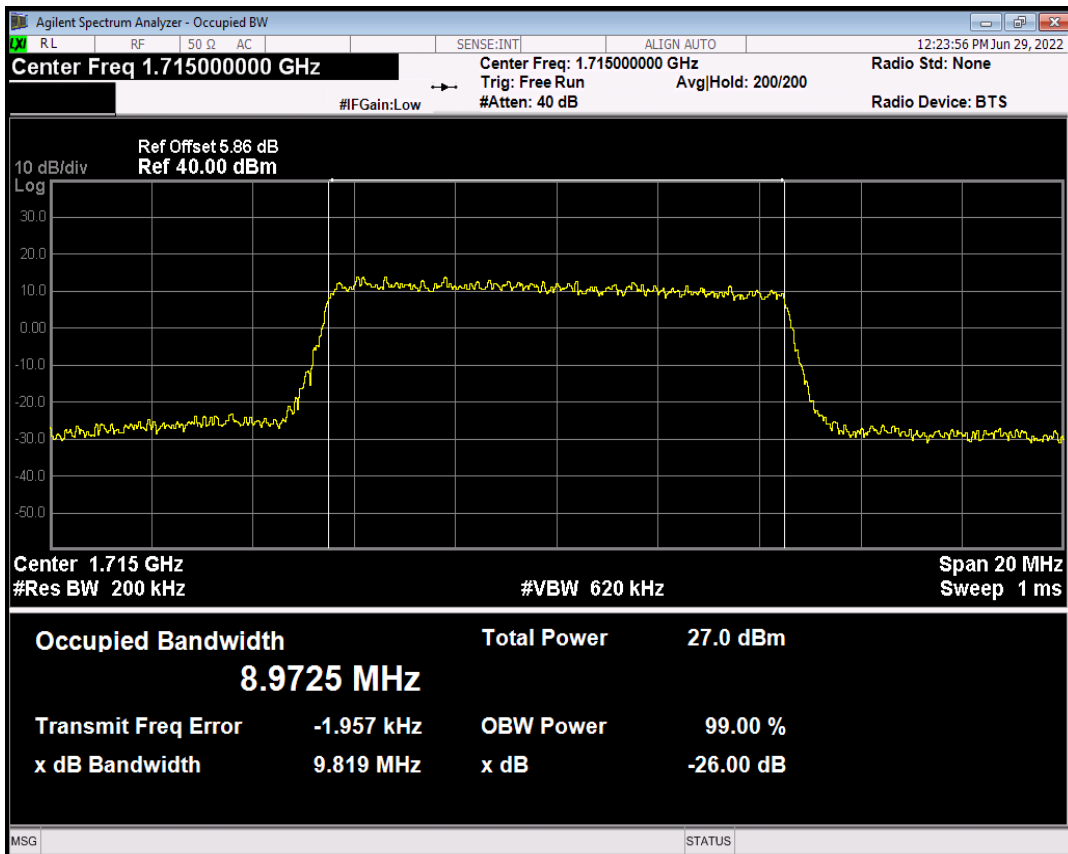




Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0

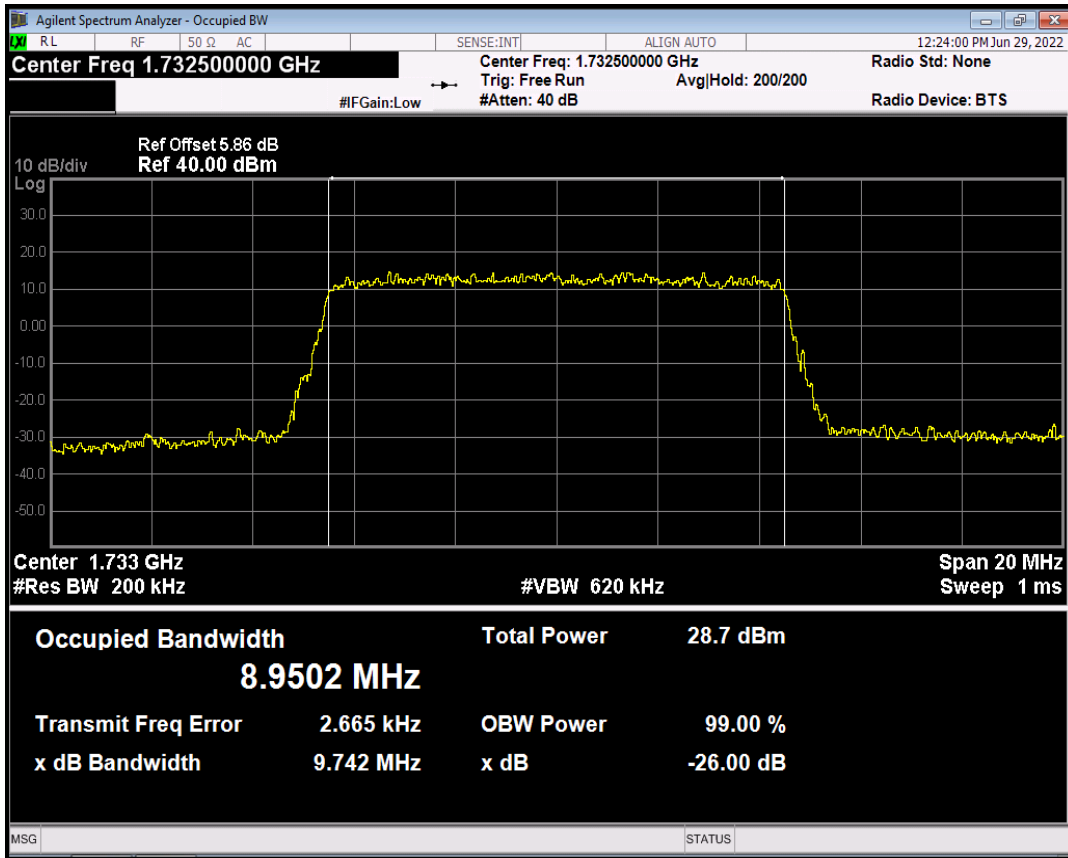


Band4 QAM16 BW=10MHz Channel=20000 RB Size=50 Position=#0

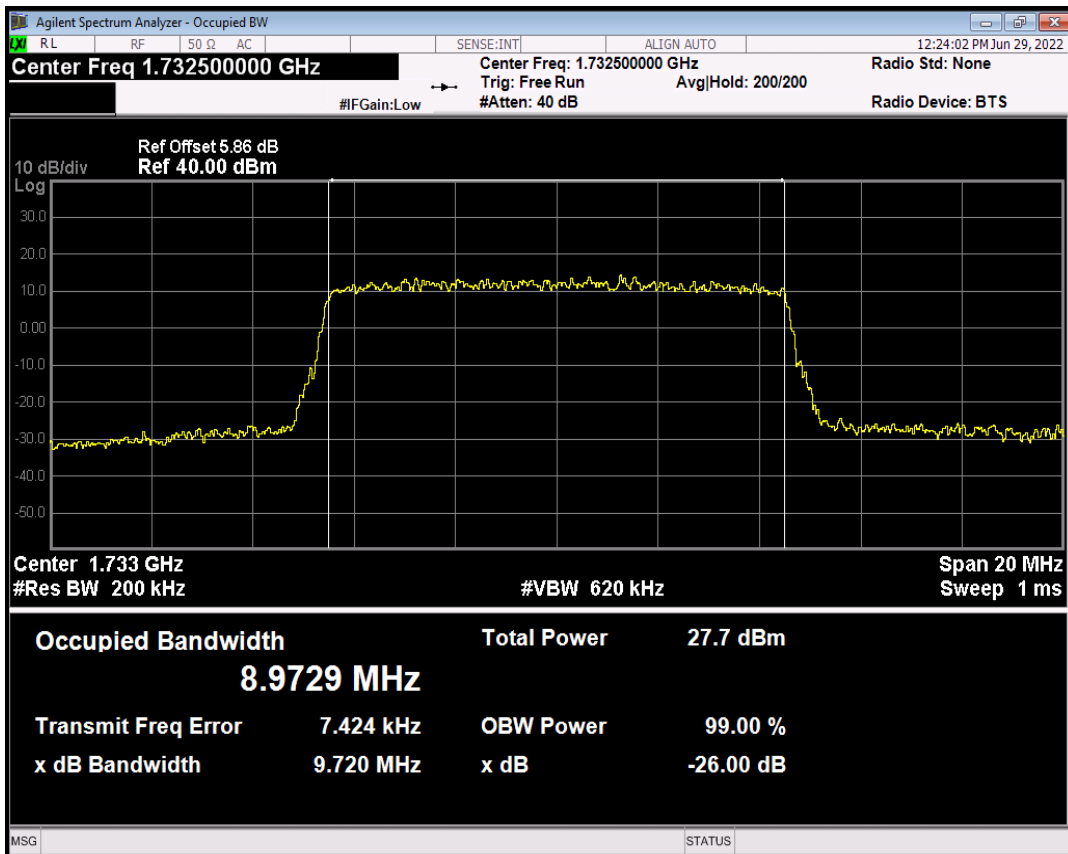




Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0

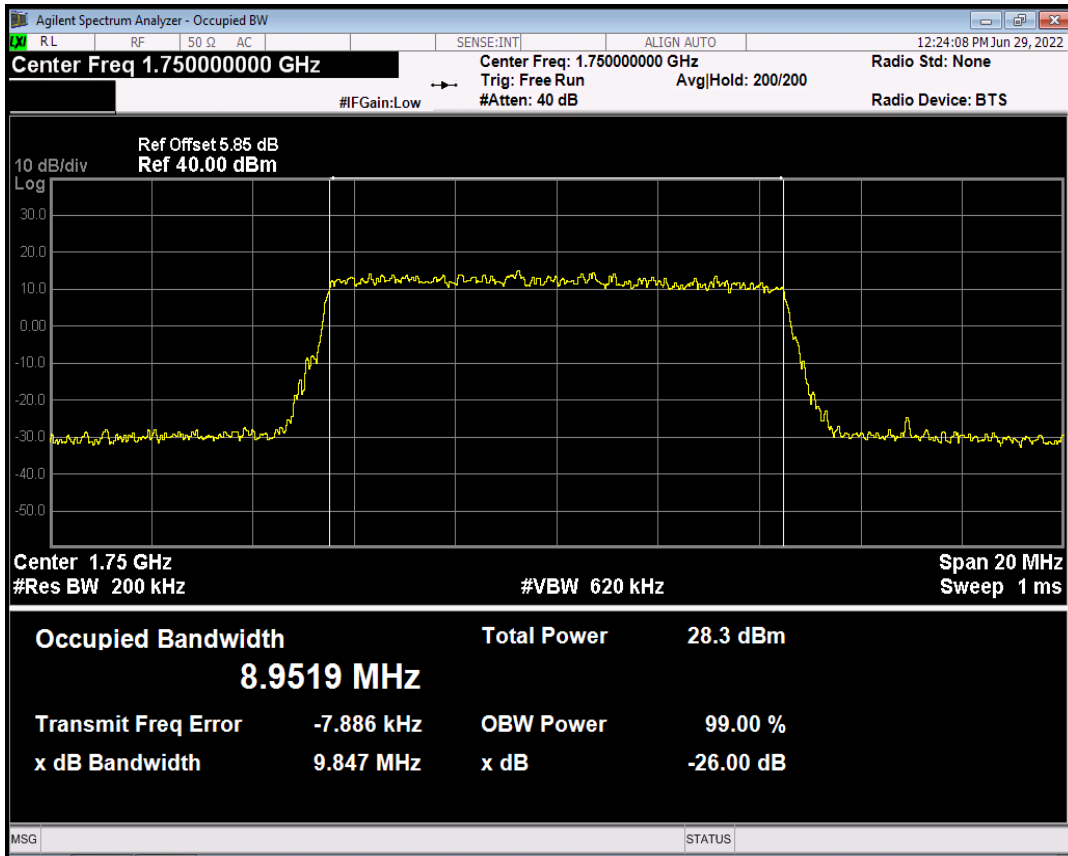


Band4 QAM16 BW=10MHz Channel=20175 RB Size=50 Position=#0

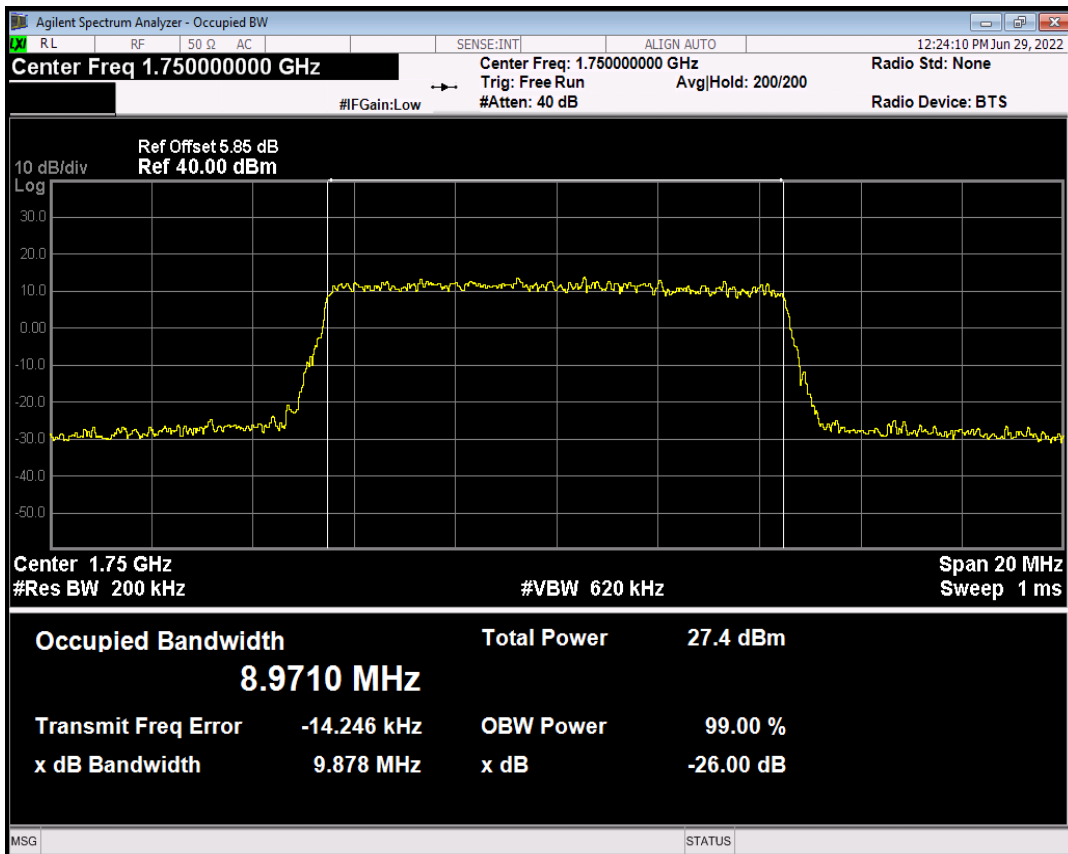




Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0

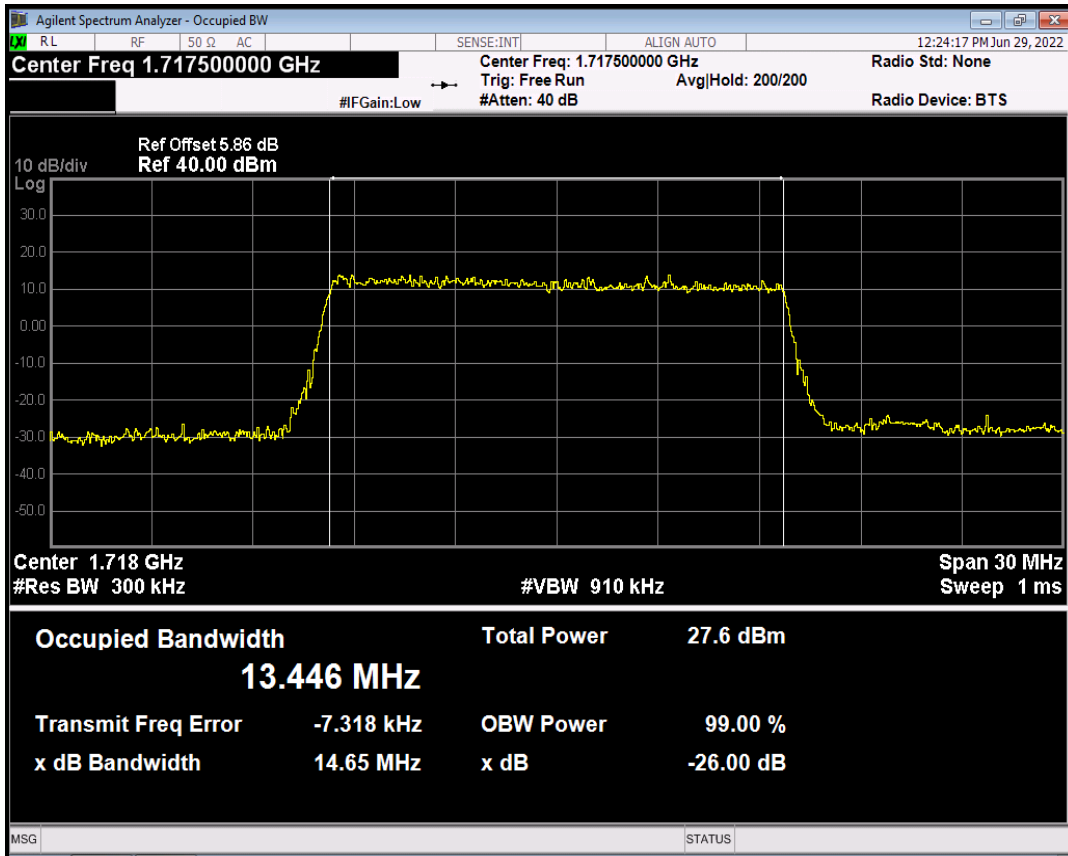


Band4 QAM16 BW=10MHz Channel=20350 RB Size=50 Position=#0

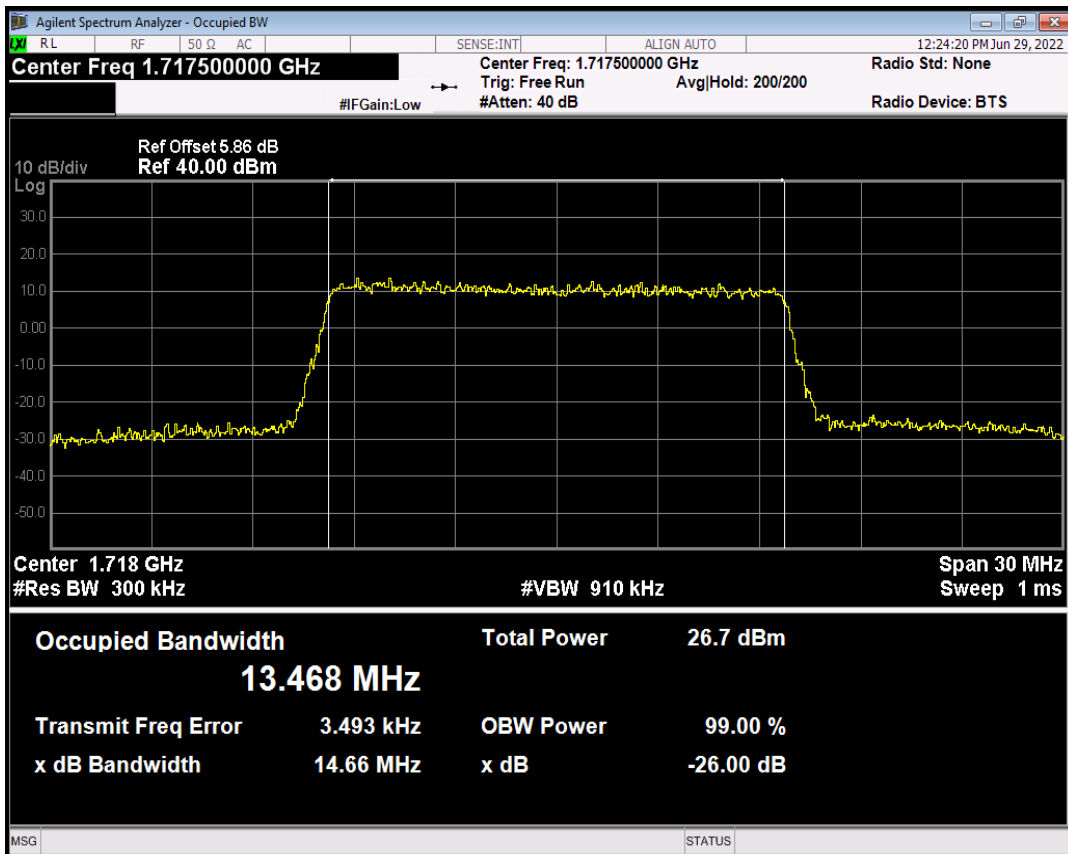




Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0

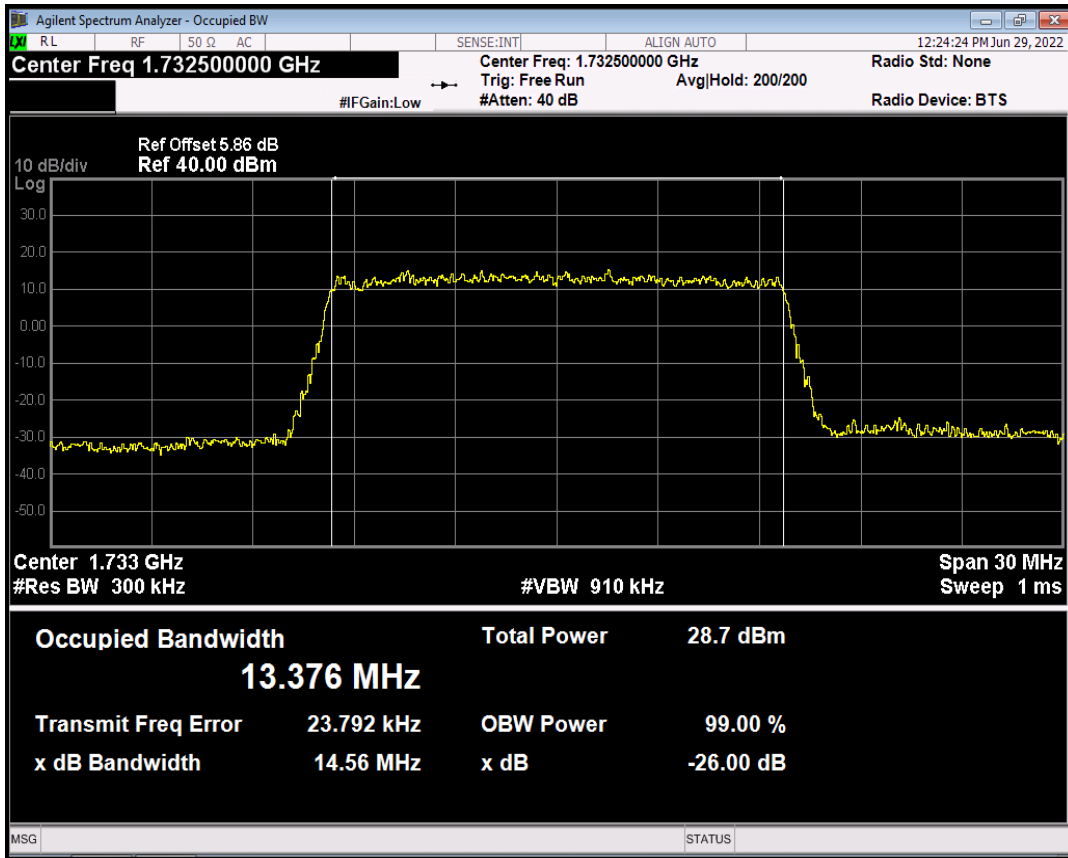


Band4 QAM16 BW=15MHz Channel=20025 RB Size=75 Position=#0

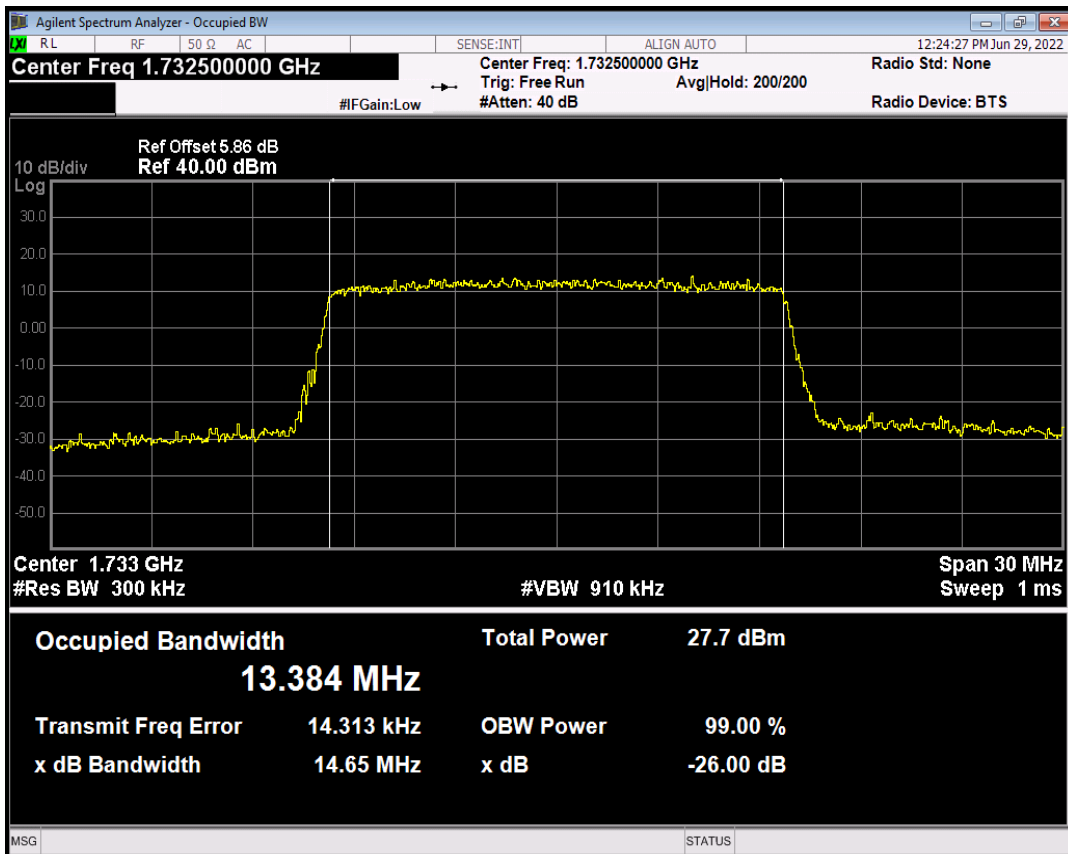




Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0

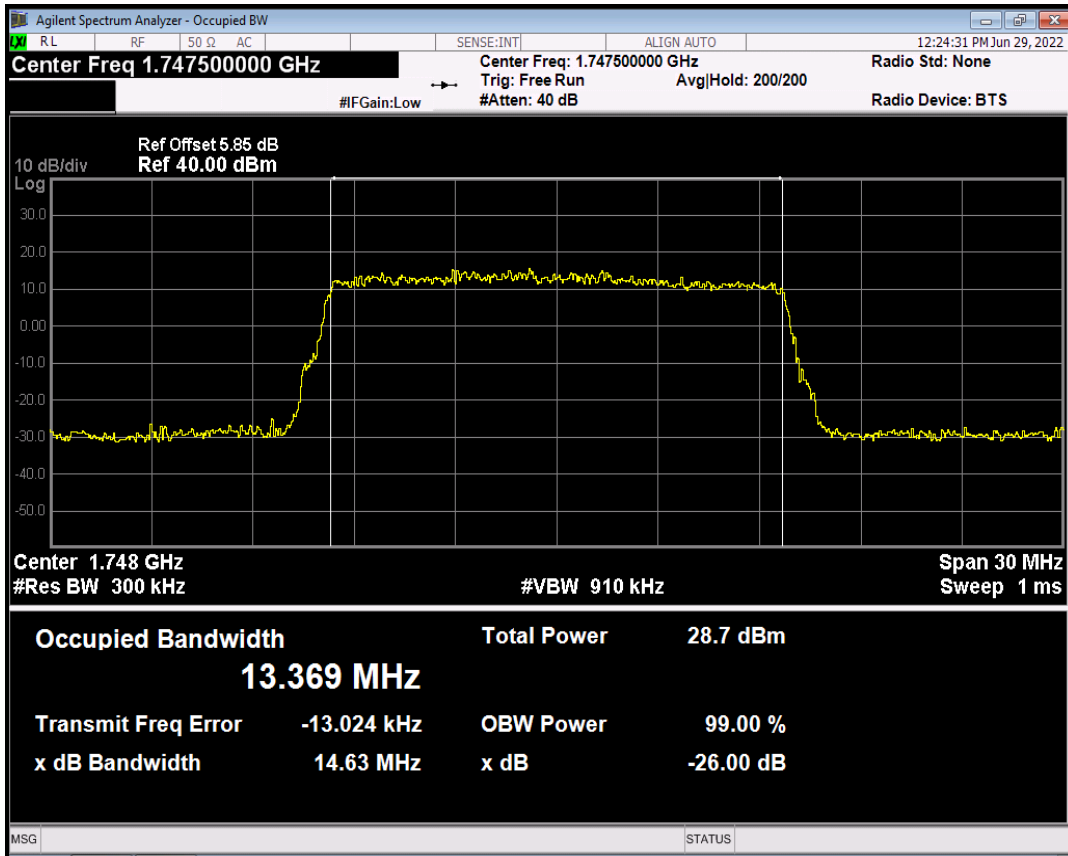


Band4 QAM16 BW=15MHz Channel=20175 RB Size=75 Position=#0

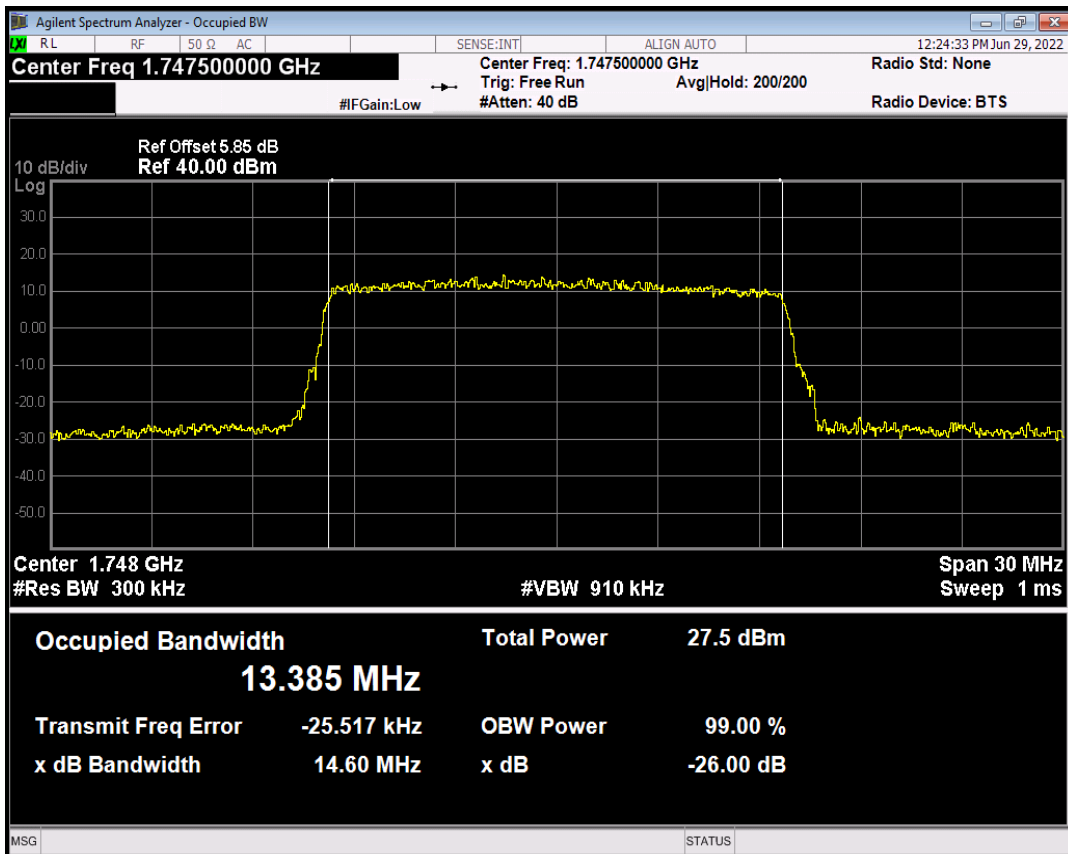




Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0

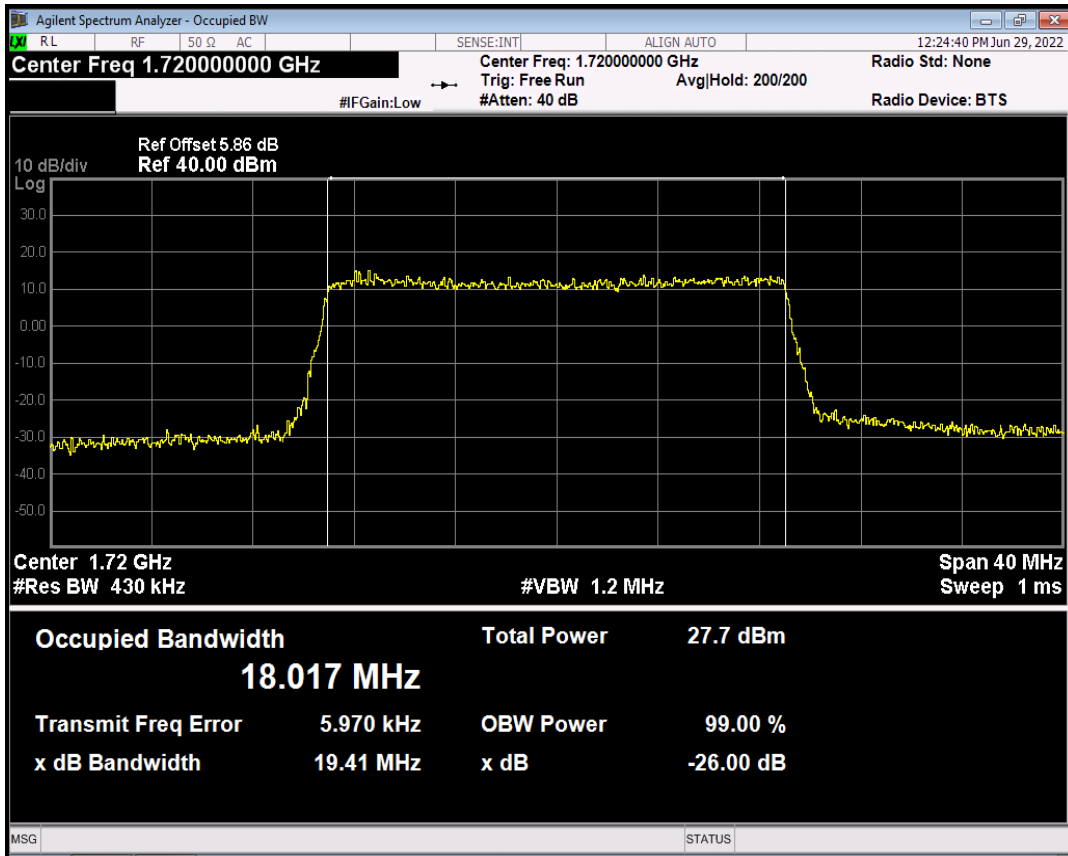


Band4 QAM16 BW=15MHz Channel=20325 RB Size=75 Position=#0

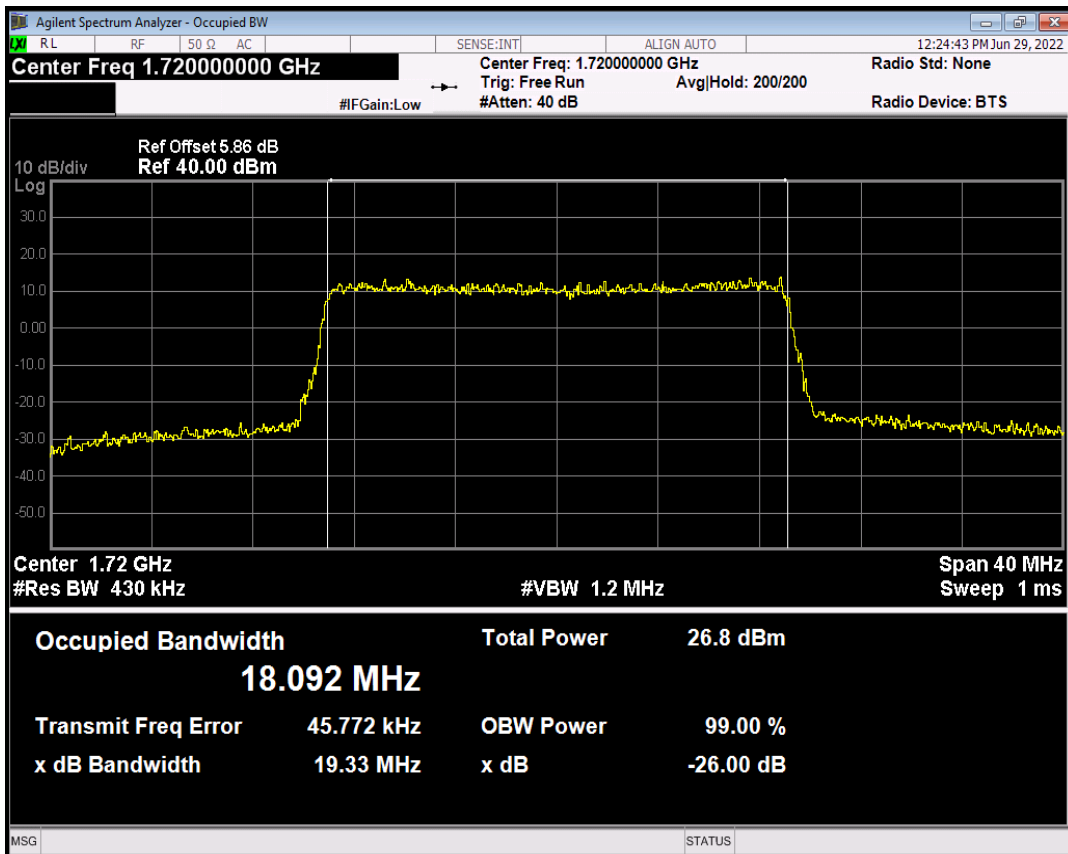




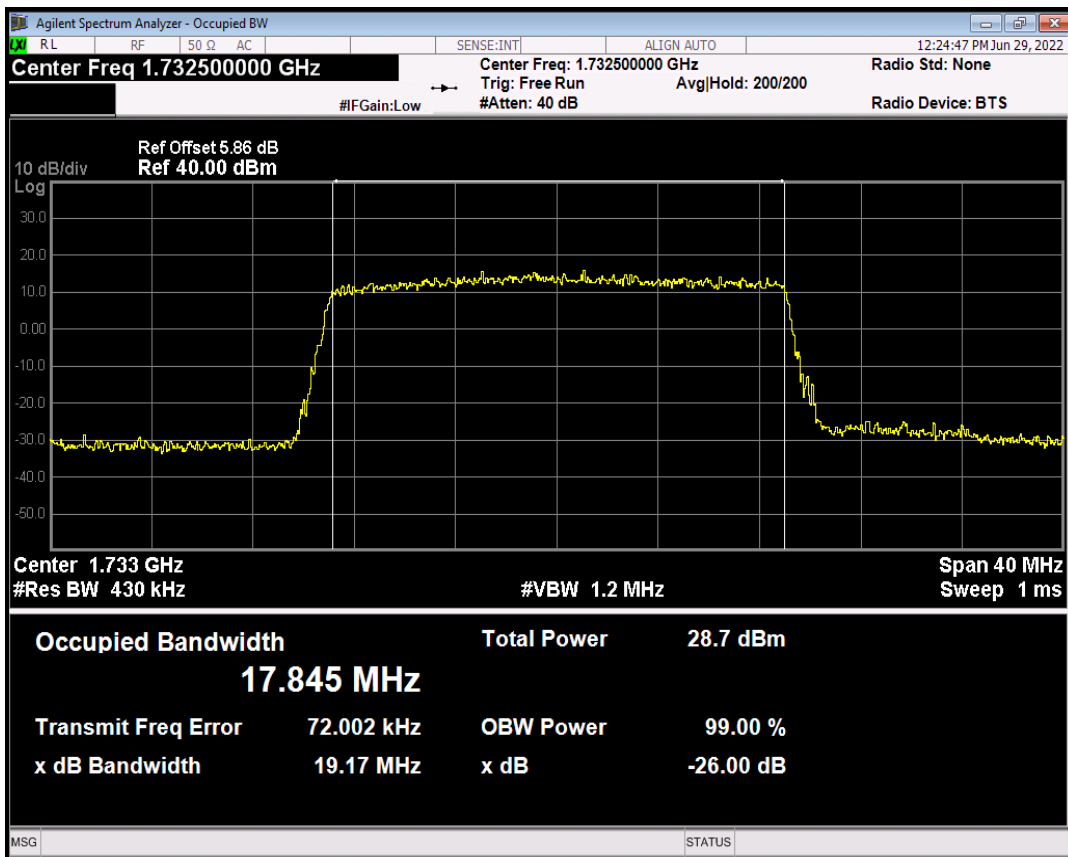
Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



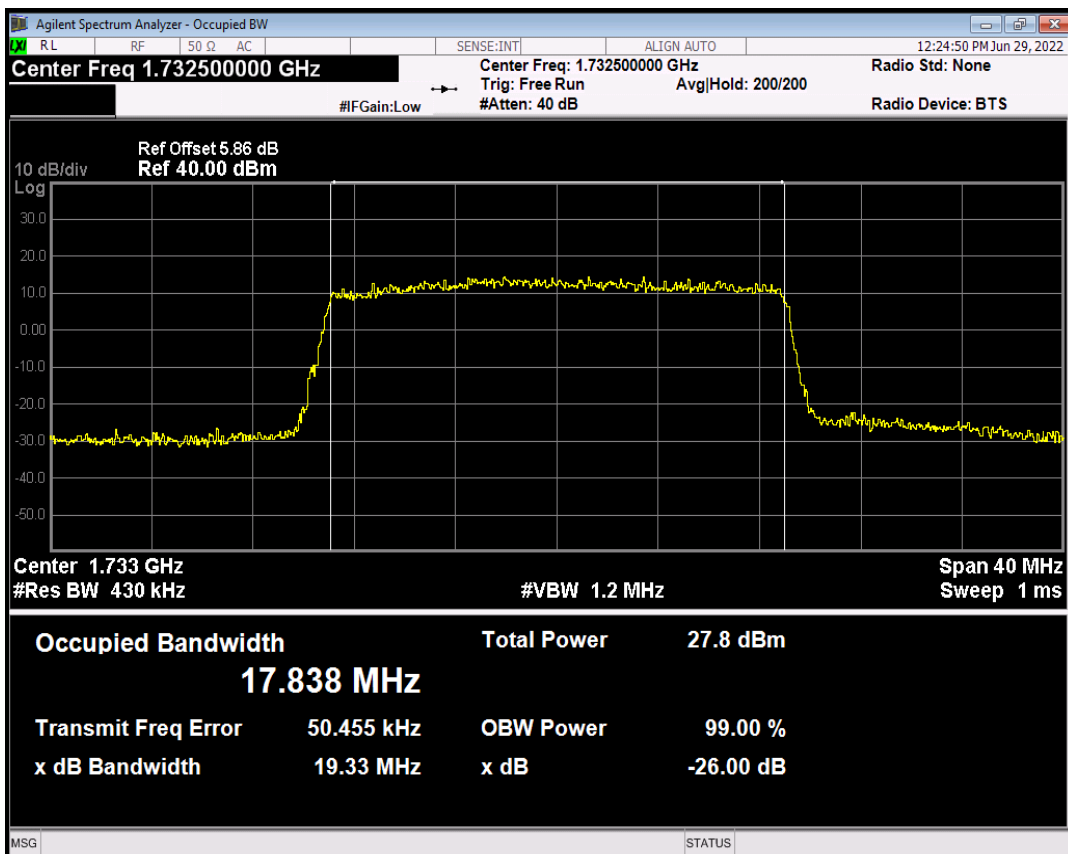
Band4 QAM16 BW=20MHz Channel=20050 RB Size=100 Position=#0



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

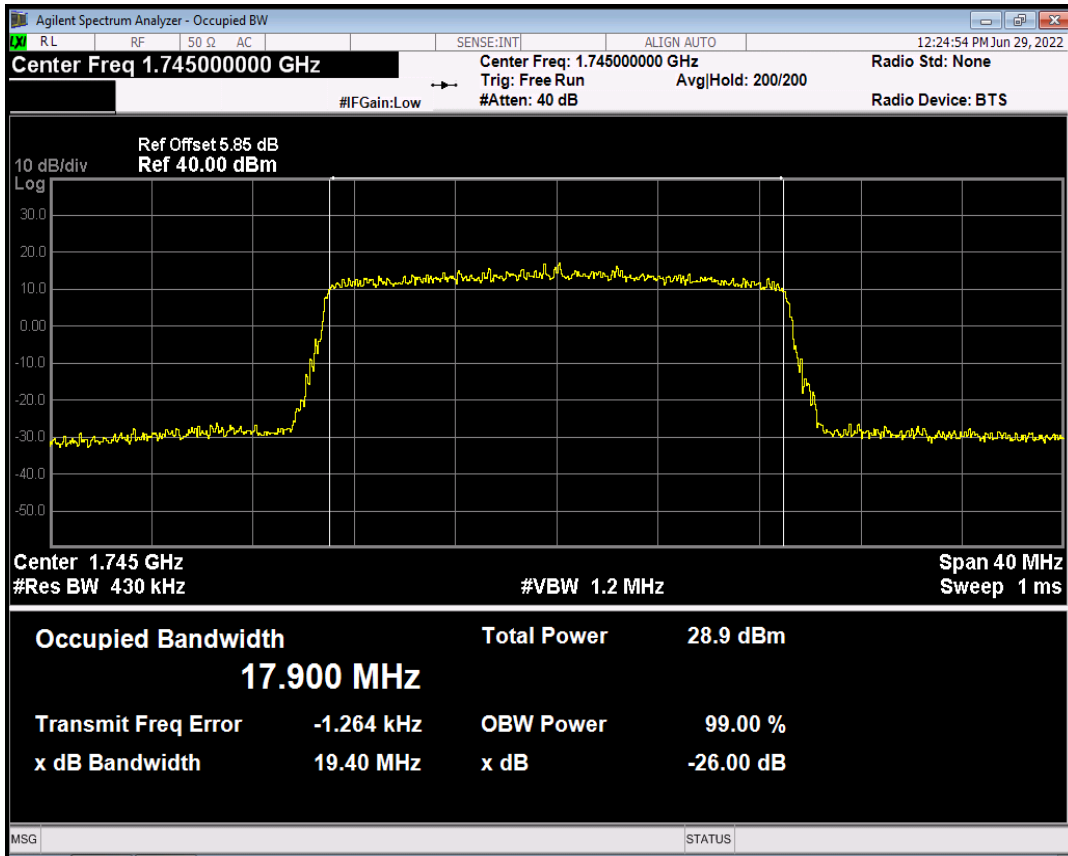


Band4 QAM16 BW=20MHz Channel=20175 RB Size=100 Position=#0

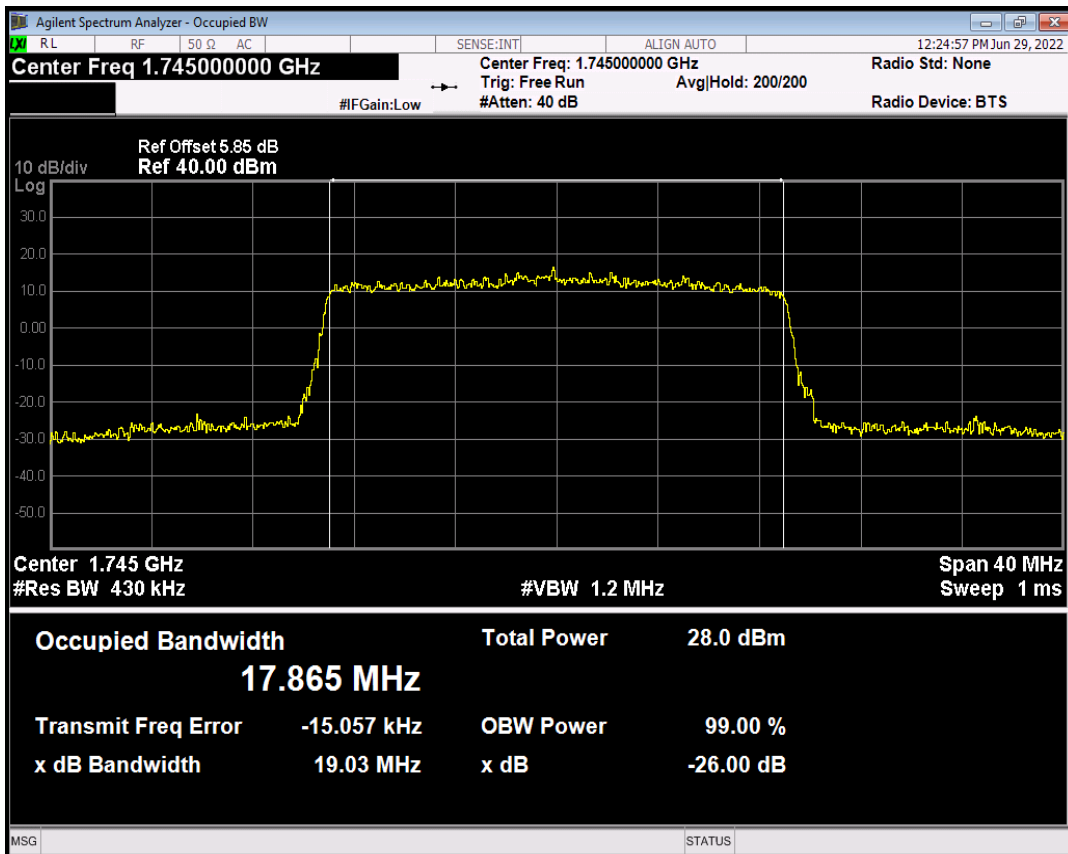




Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0



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

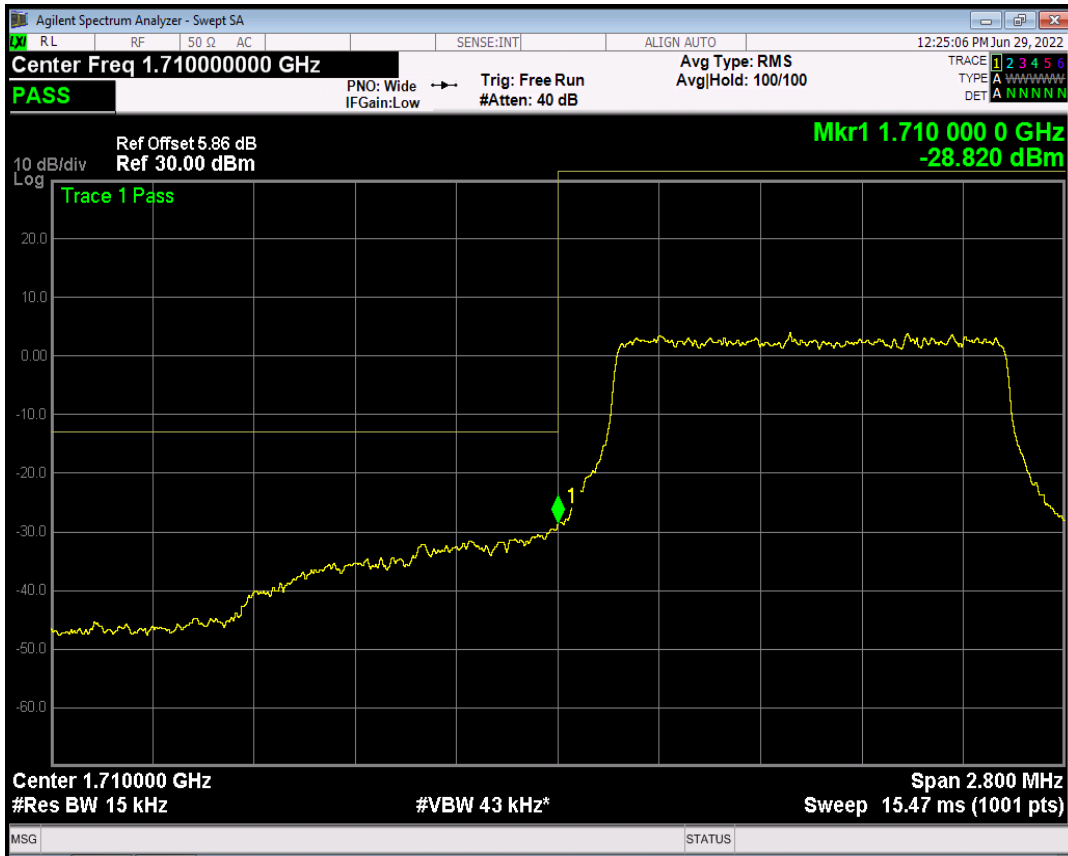


Appendix 5. Band edge

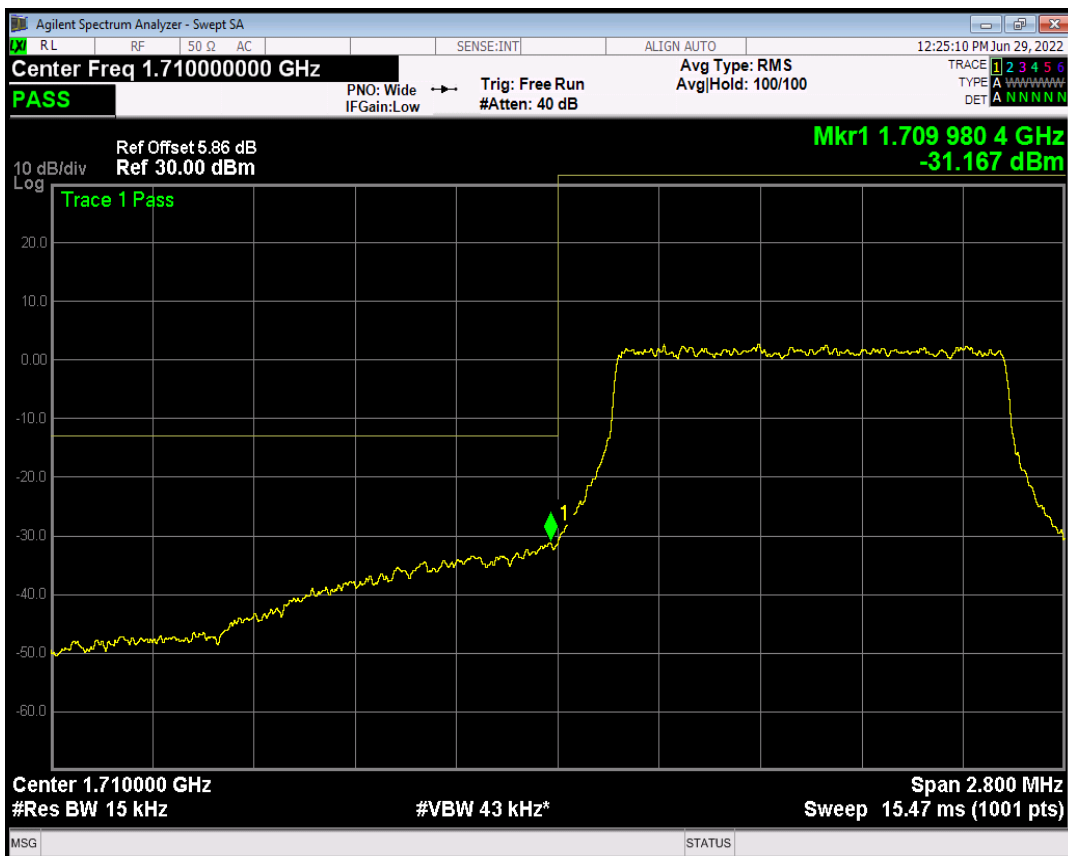
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band4	1.4	19957	6	#0	QPSK	1710.00	-28.81	-13	PASS
Band4	1.4	19957	6	#0	QAM16	1709.98	-31.16	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1755.00	-32.99	-13	PASS
Band4	1.4	20393	6	#0	QAM16	1755.00	-33.05	-13	PASS
Band4	3	19965	15	#0	QPSK	1709.99	-27.80	-13	PASS
Band4	3	19965	15	#0	QAM16	1709.99	-29.37	-13	PASS
Band4	3	20385	15	#0	QPSK	1755.00	-32.41	-13	PASS
Band4	3	20385	15	#0	QAM16	1755.00	-30.07	-13	PASS
Band4	5	19975	25	#0	QPSK	1710.00	-28.23	-13	PASS
Band4	5	19975	25	#0	QAM16	1710.00	-30.32	-13	PASS
Band4	5	20375	25	#0	QPSK	1755.00	-30.90	-13	PASS
Band4	5	20375	25	#0	QAM16	1755.00	-31.28	-13	PASS
Band4	10	20000	50	#0	QPSK	1709.98	-32.50	-13	PASS
Band4	10	20000	50	#0	QAM16	1710.00	-33.48	-13	PASS
Band4	10	20350	50	#0	QPSK	1755.00	-35.11	-13	PASS
Band4	10	20350	50	#0	QAM16	1755.00	-34.36	-13	PASS
Band4	15	20025	75	#0	QPSK	1710.00	-33.76	-13	PASS
Band4	15	20025	75	#0	QAM16	1709.94	-35.52	-13	PASS
Band4	15	20325	75	#0	QPSK	1755.00	-36.54	-13	PASS
Band4	15	20325	75	#0	QAM16	1755.00	-35.52	-13	PASS
Band4	20	20050	100	#0	QPSK	1710.00	-38.72	-13	PASS
Band4	20	20050	100	#0	QAM16	1710.00	-37.65	-13	PASS
Band4	20	20300	100	#0	QPSK	1755.04	-36.83	-13	PASS
Band4	20	20300	100	#0	QAM16	1755.00	-36.03	-13	PASS



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

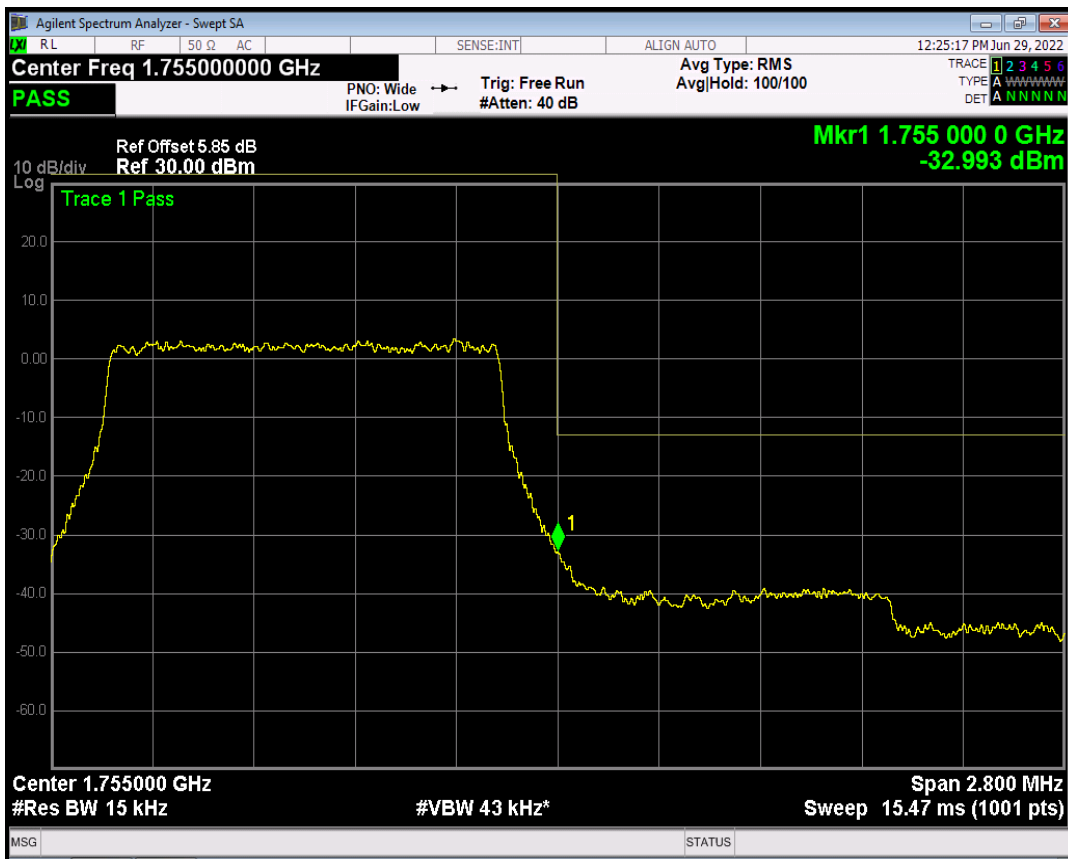


Band4 QAM16 BW=1.4MHz Channel=19957 RB Size=6 Position=#0

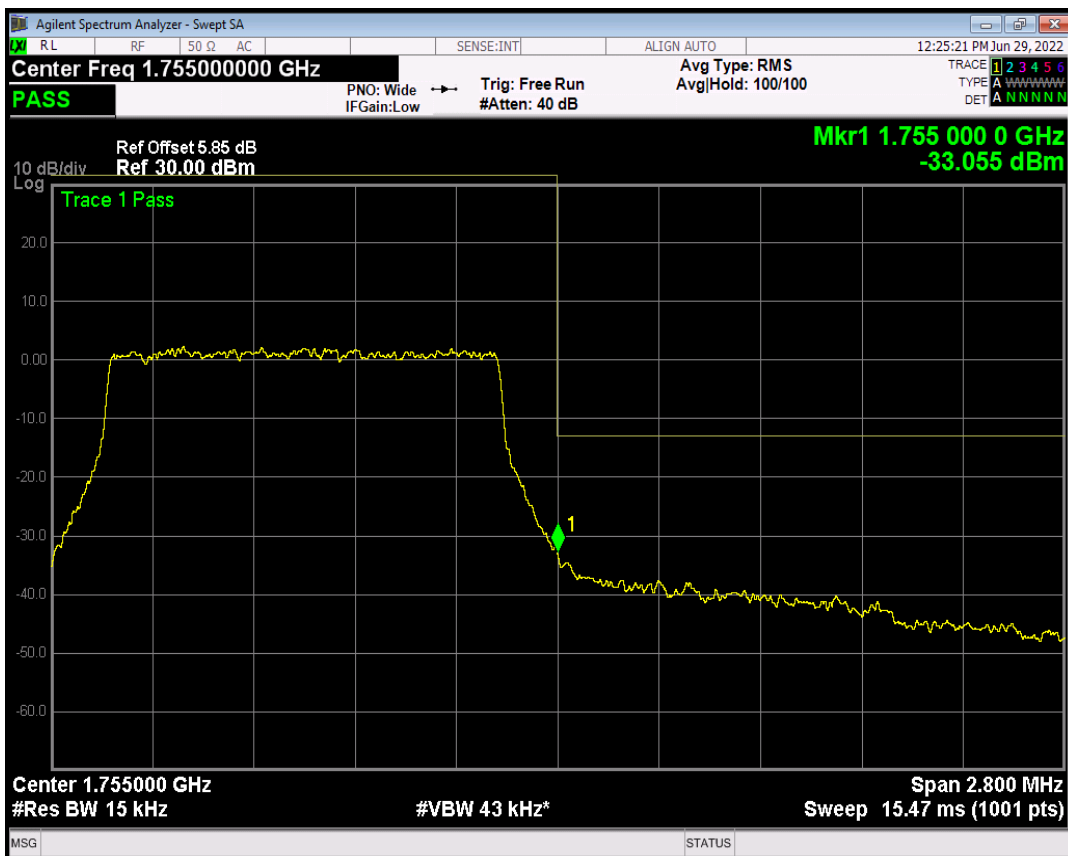




Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

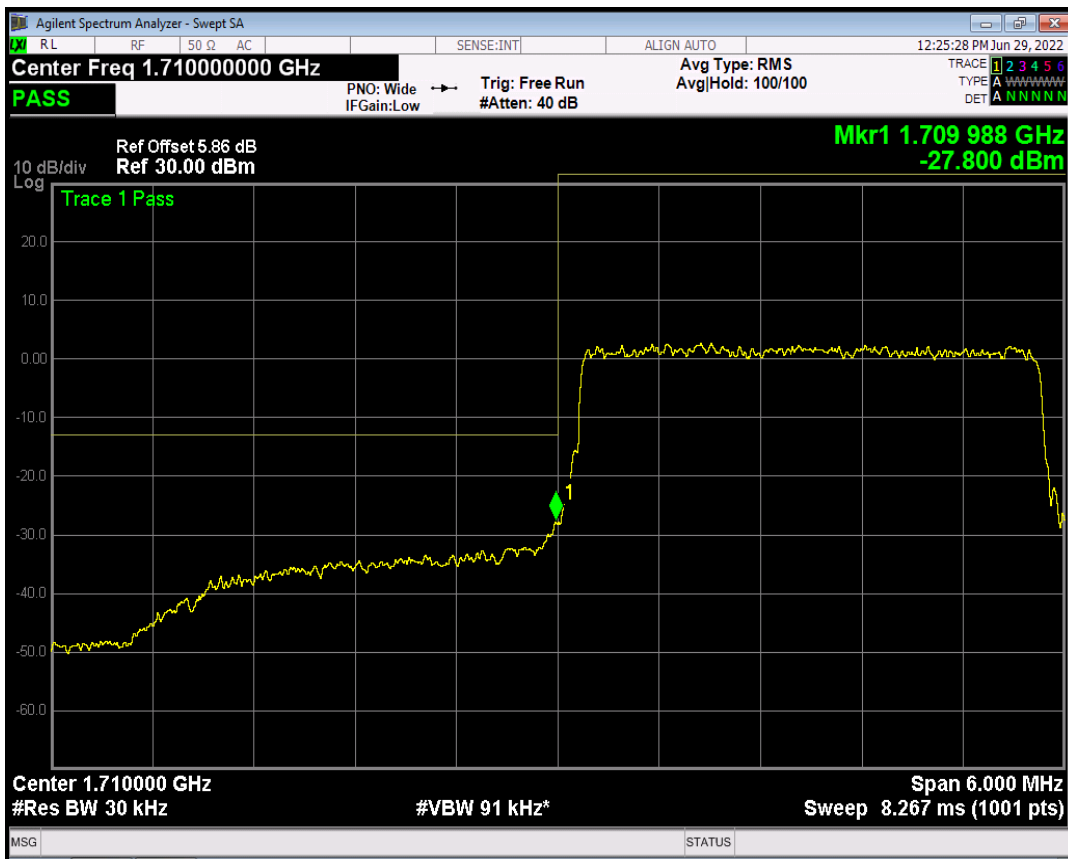


Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0

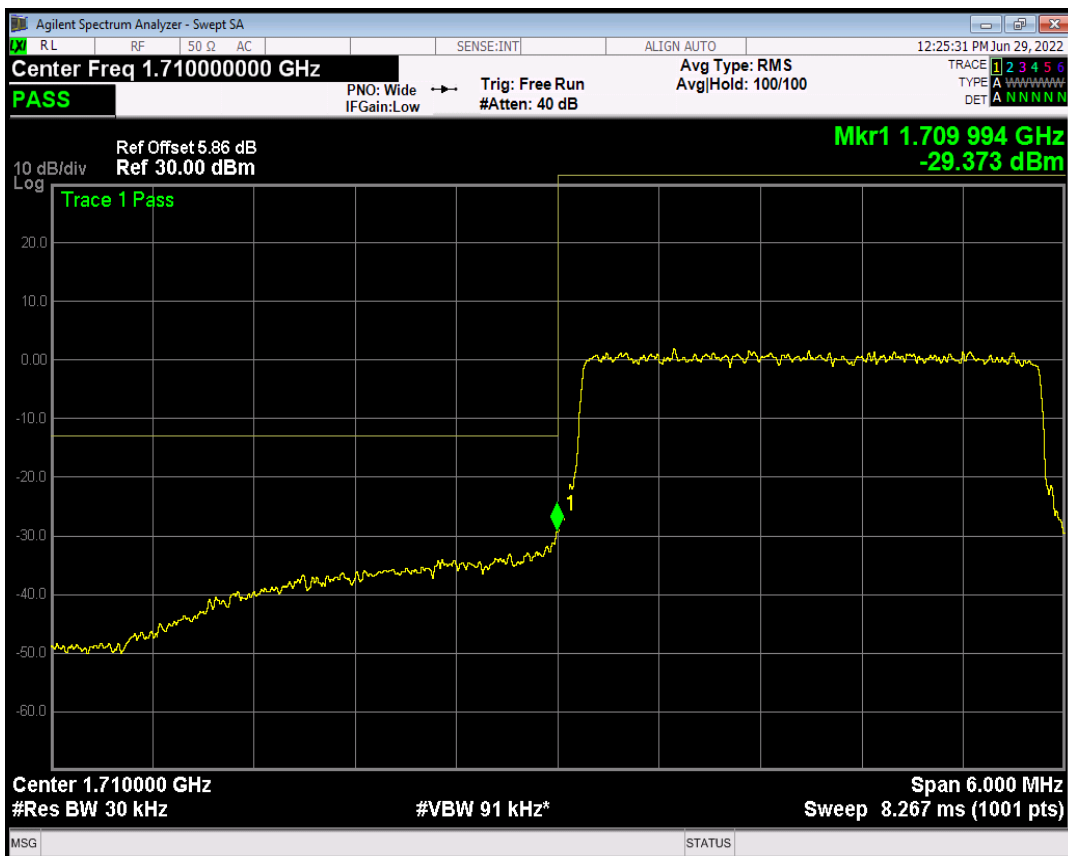




Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0

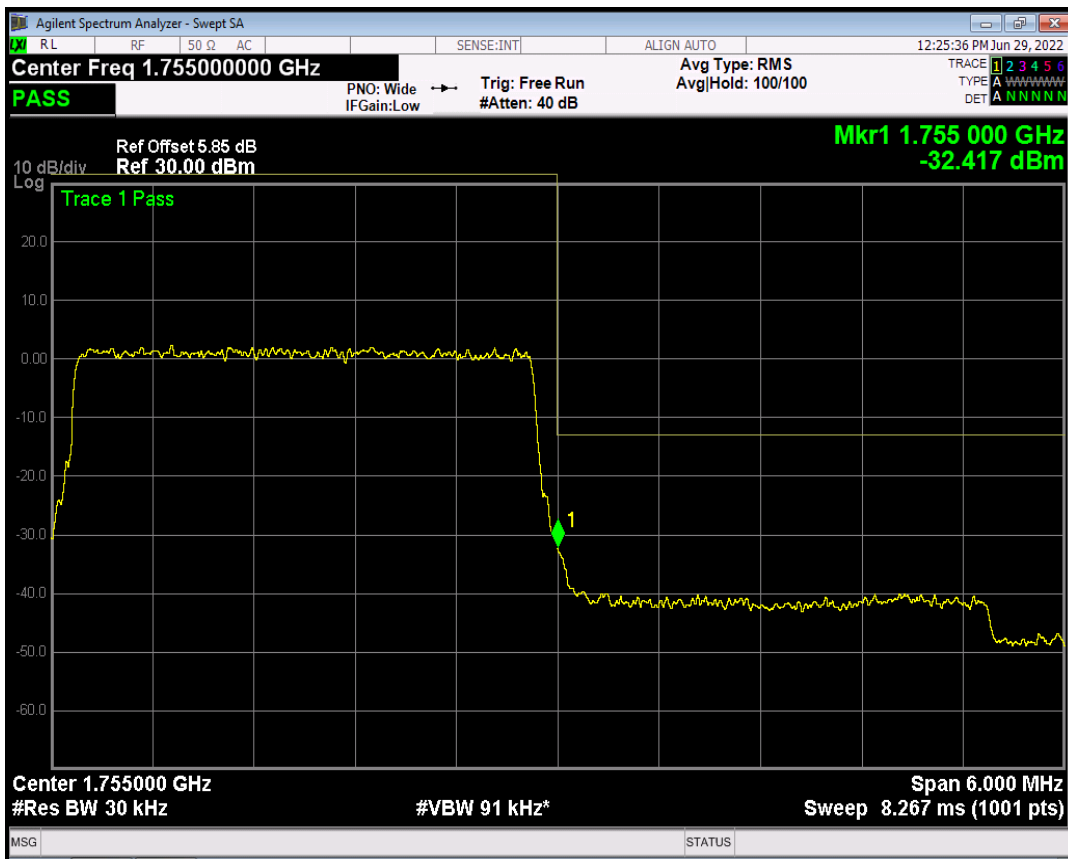


Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0

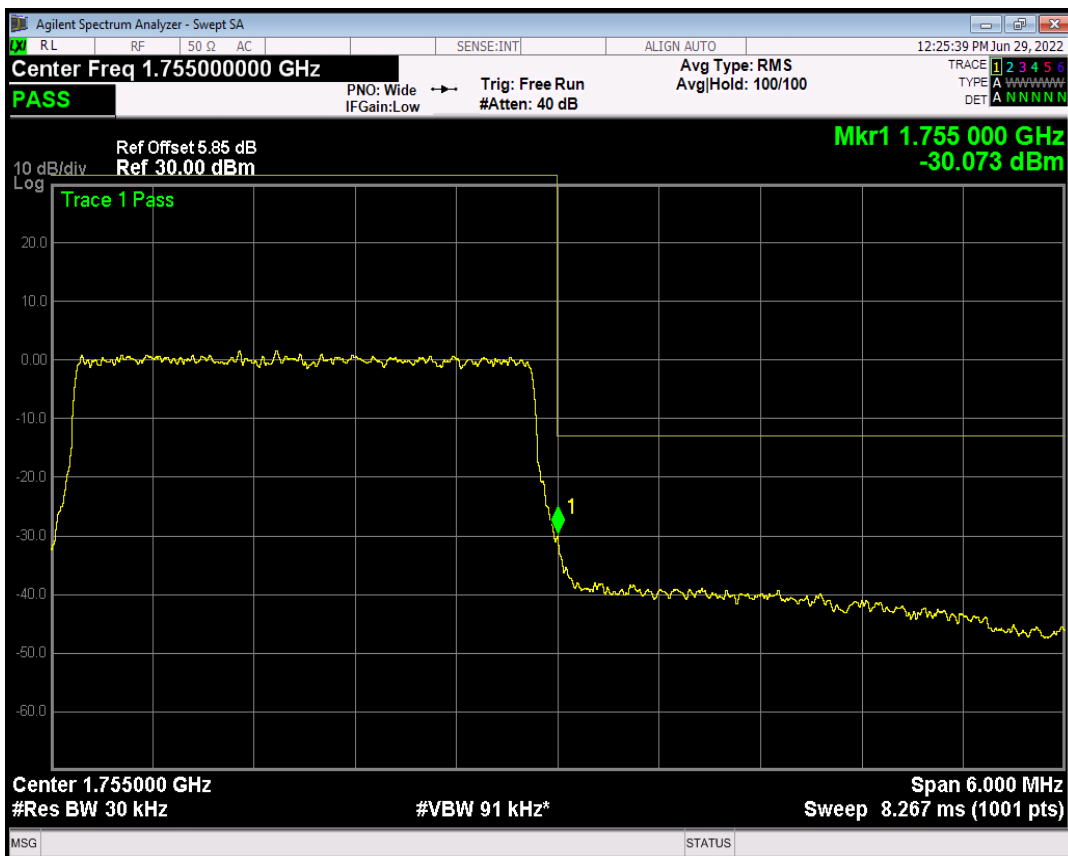




Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

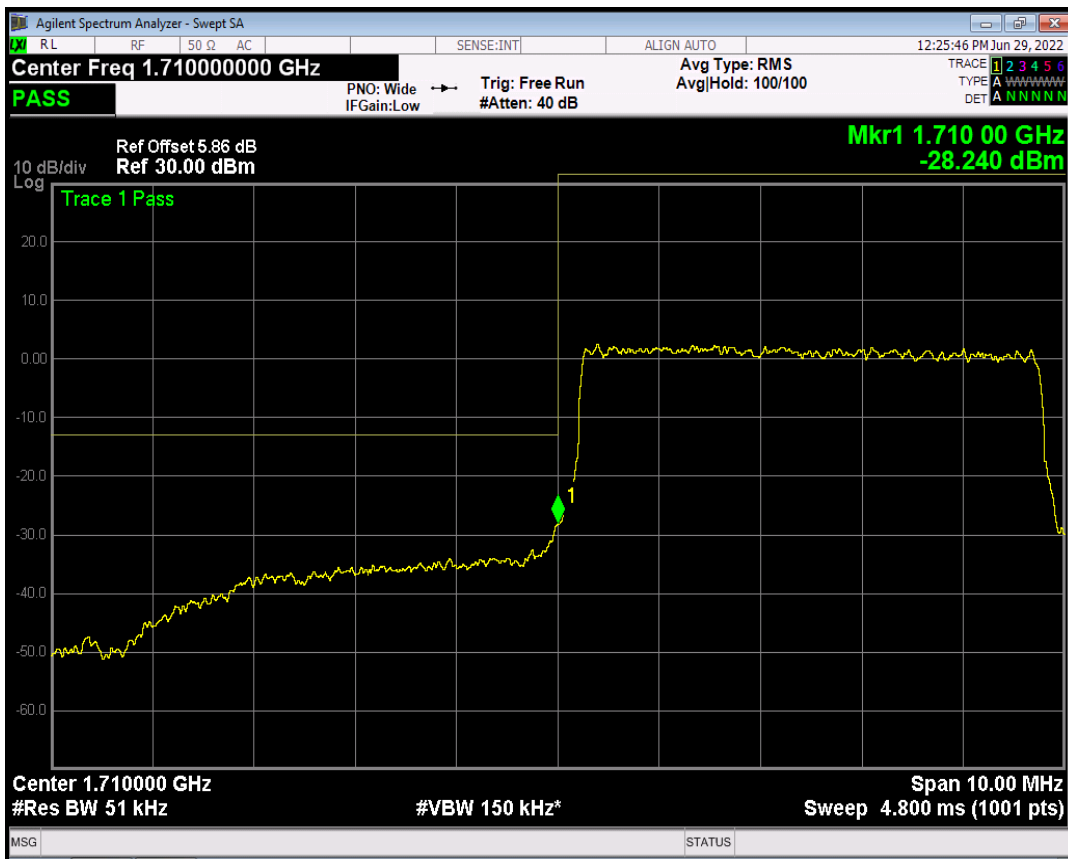


Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0

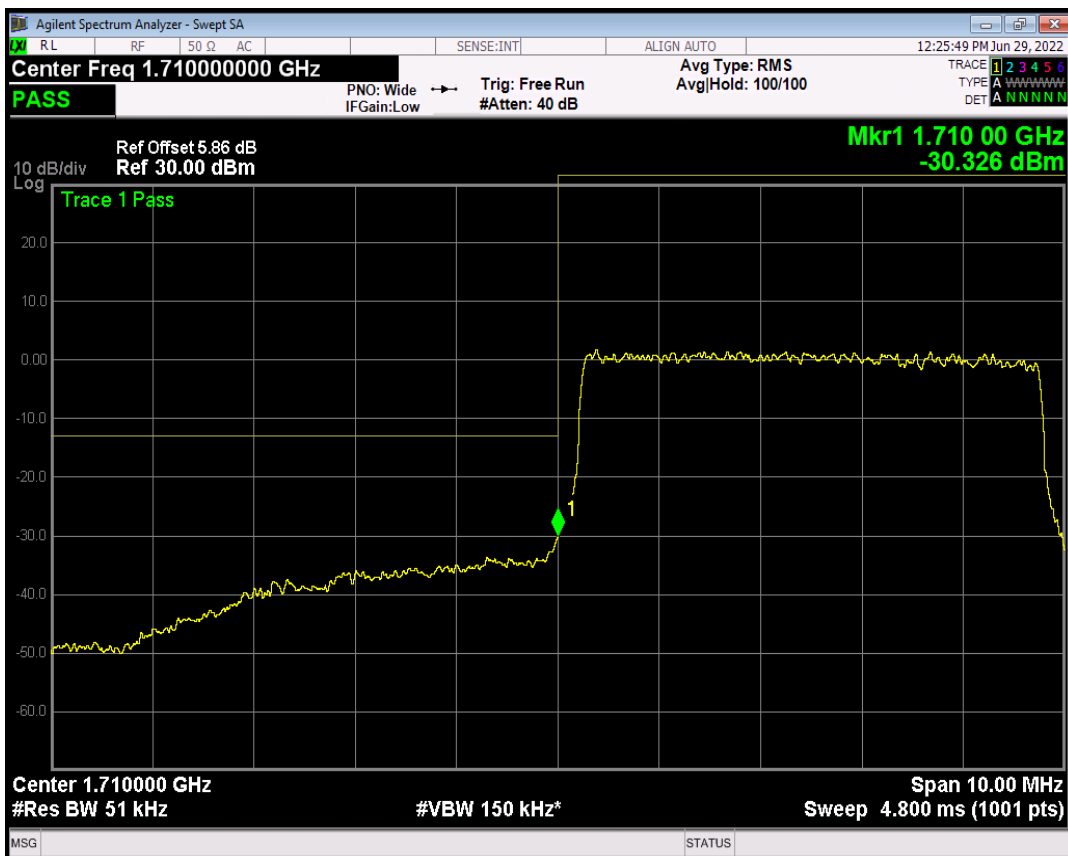




Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0

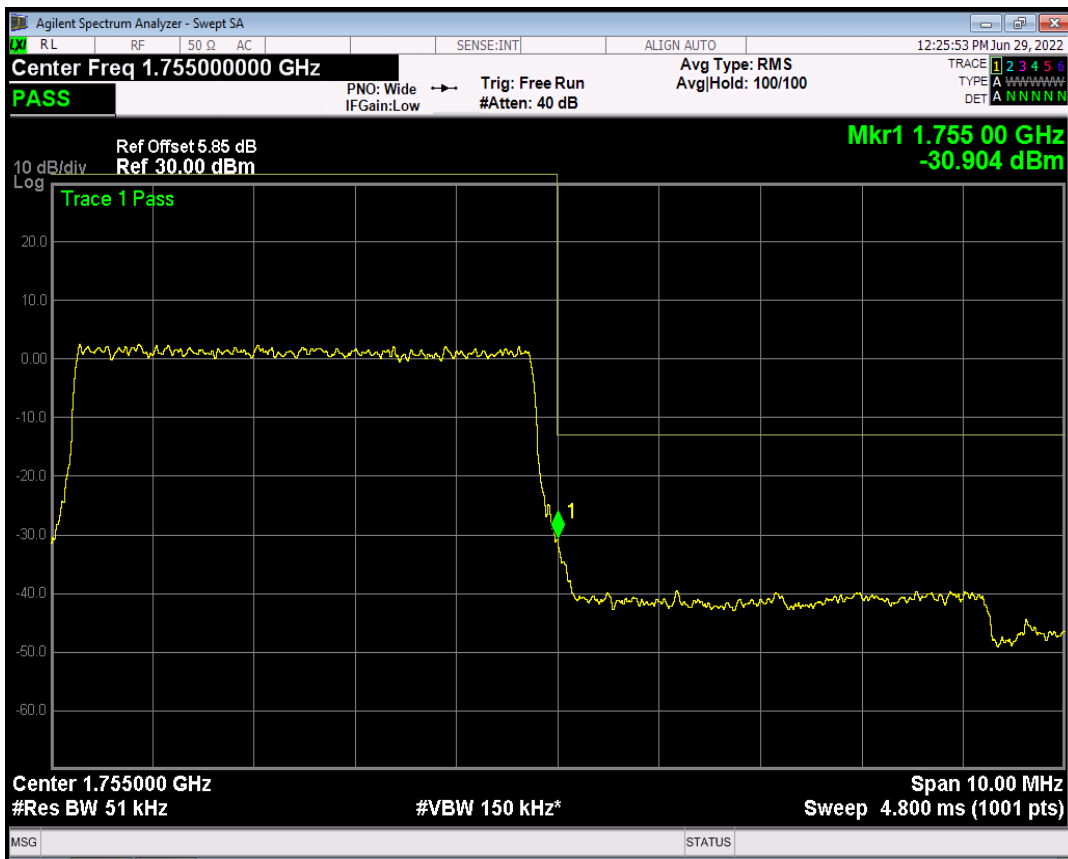


Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0

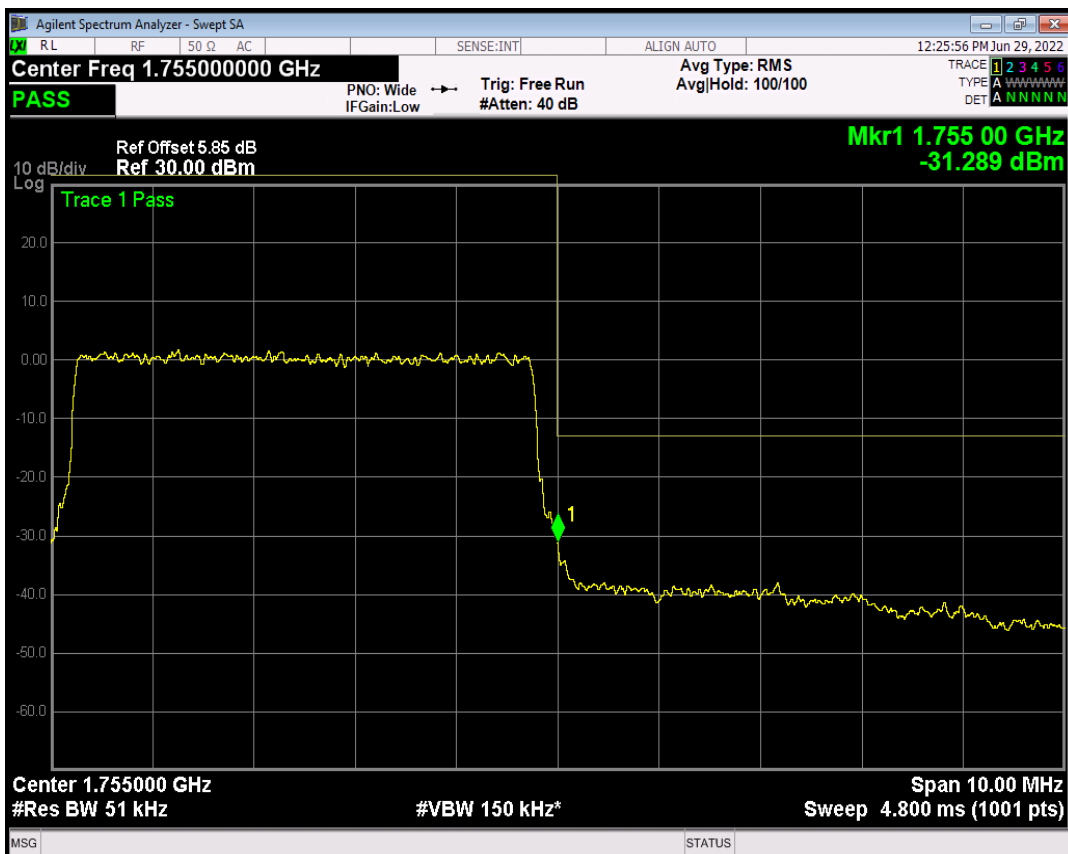




Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

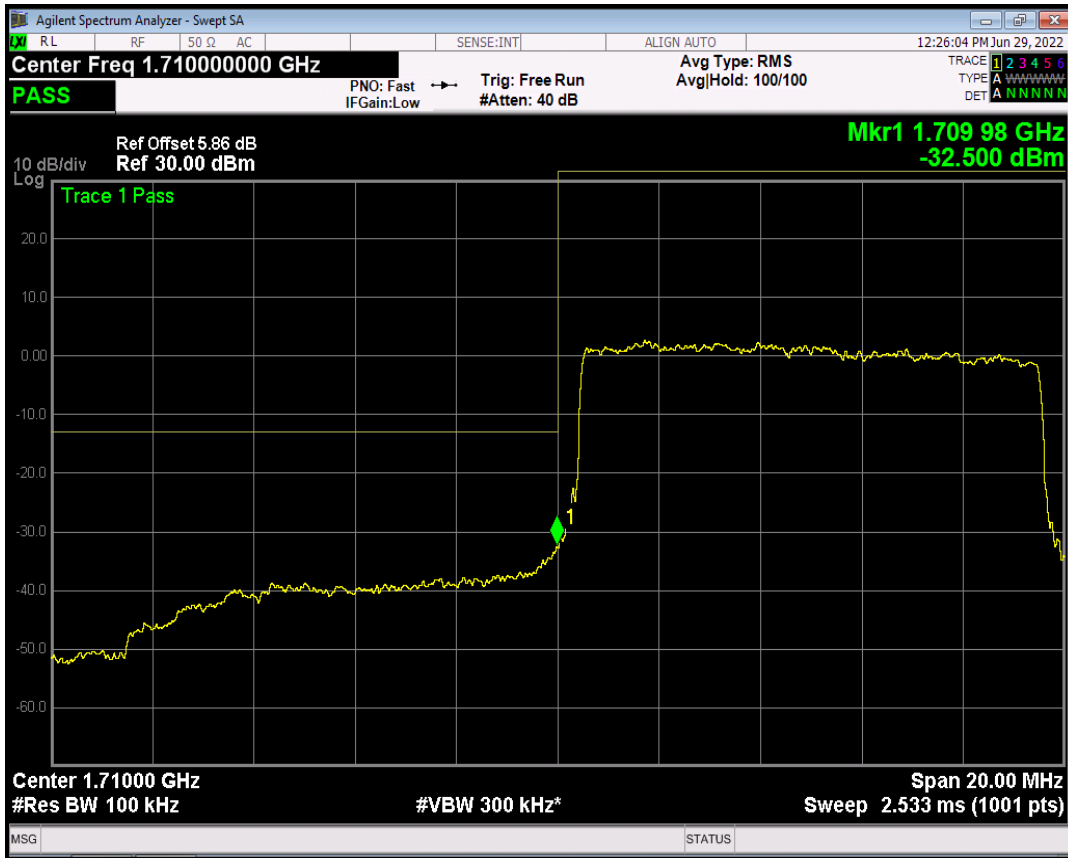


Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0

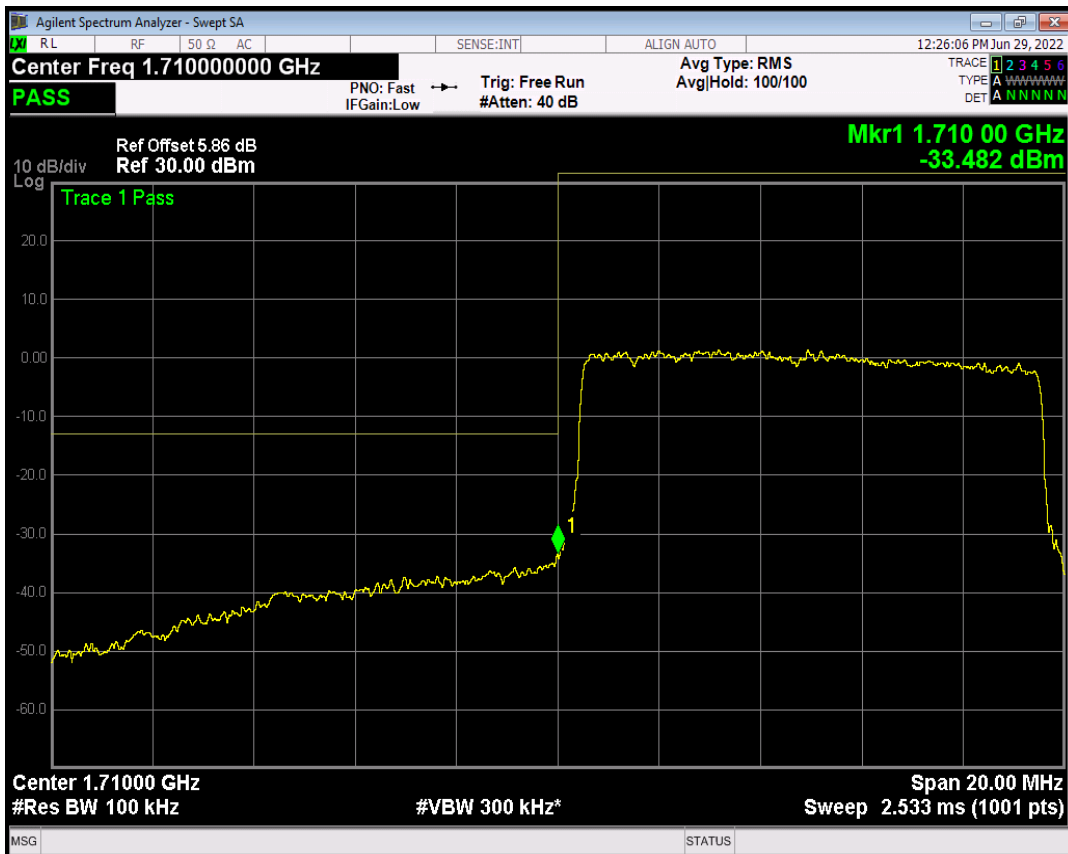




Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0

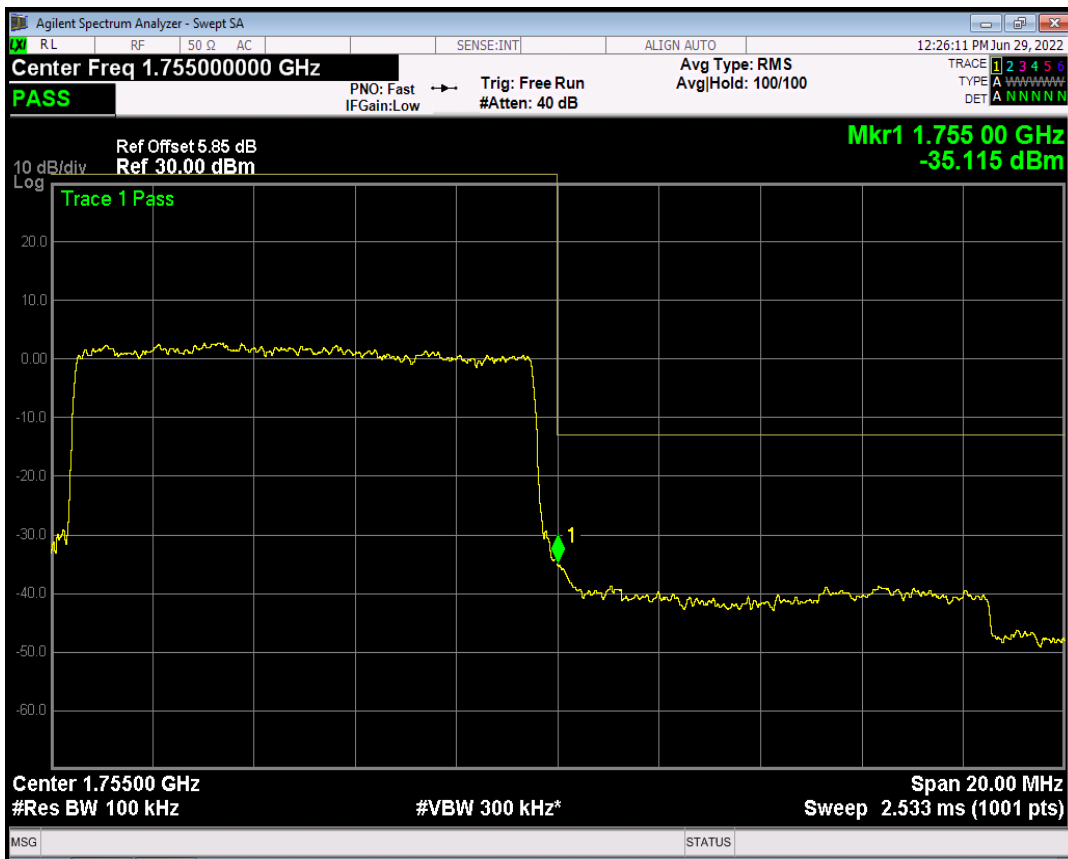


Band4 QAM16 BW=10MHz Channel=20000 RB Size=50 Position=#0





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

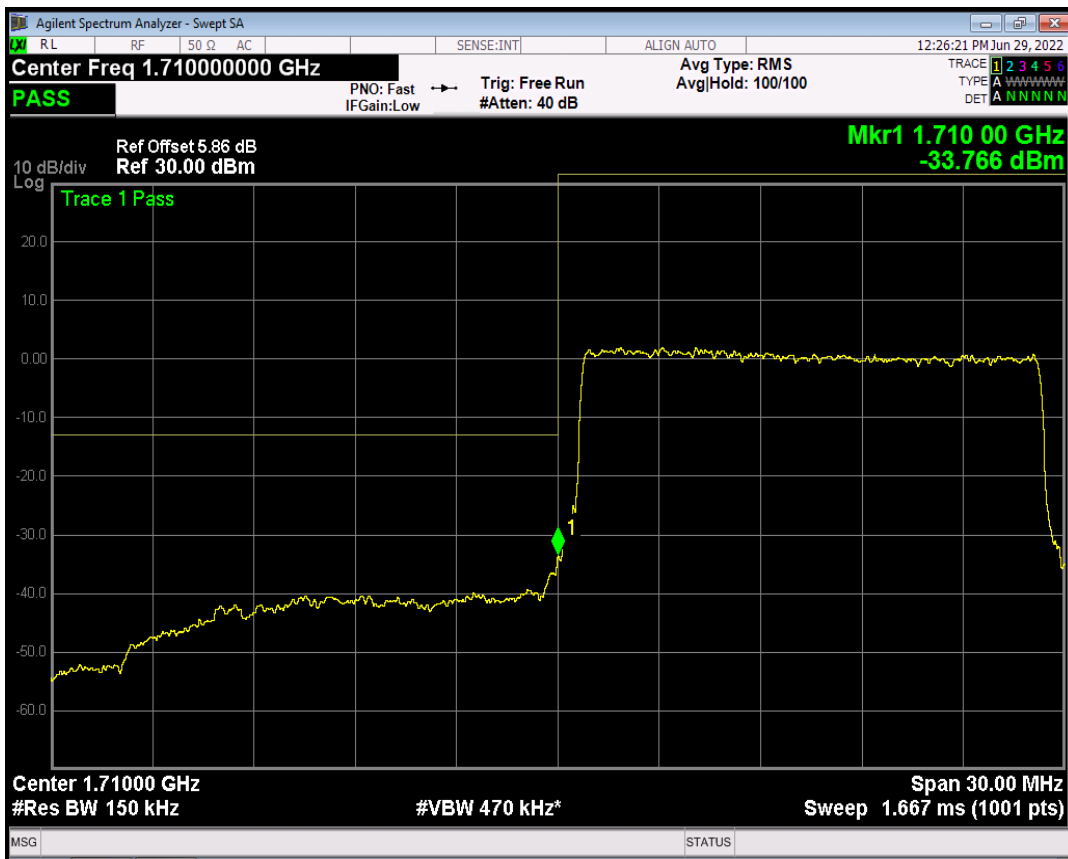


Band4 QAM16 BW=10MHz Channel=20350 RB Size=50 Position=#0

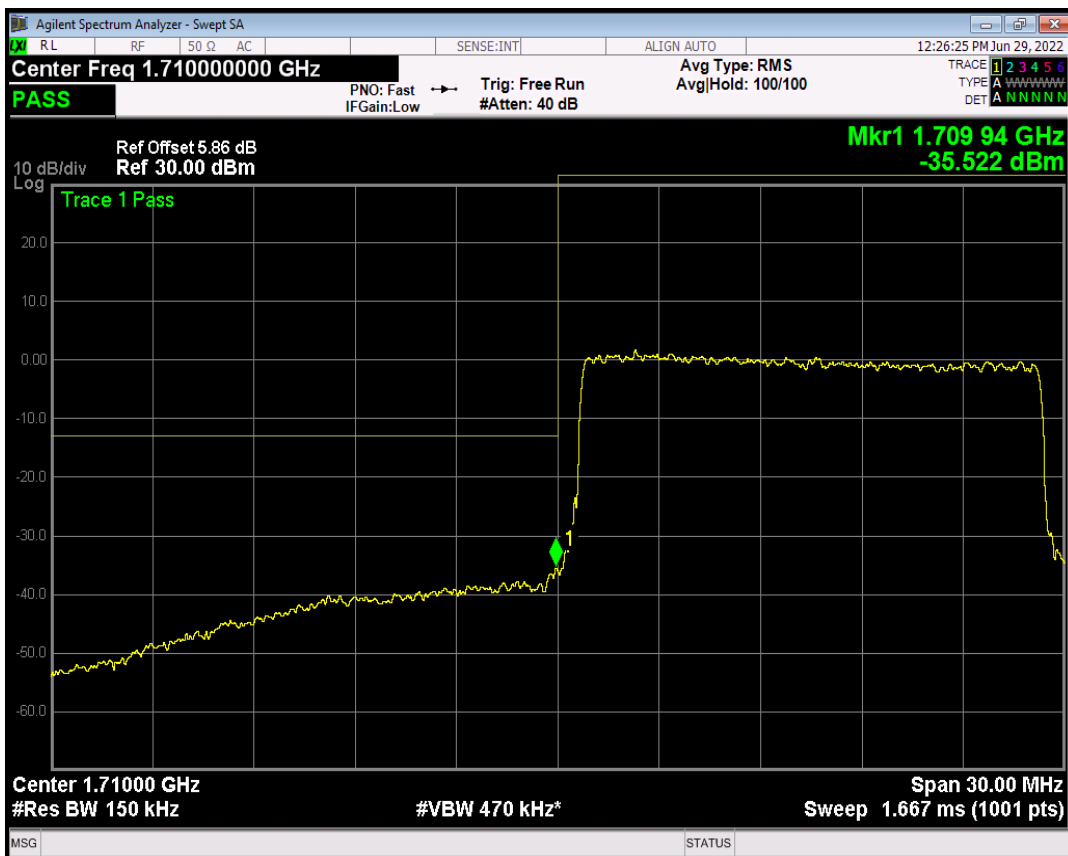




Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0

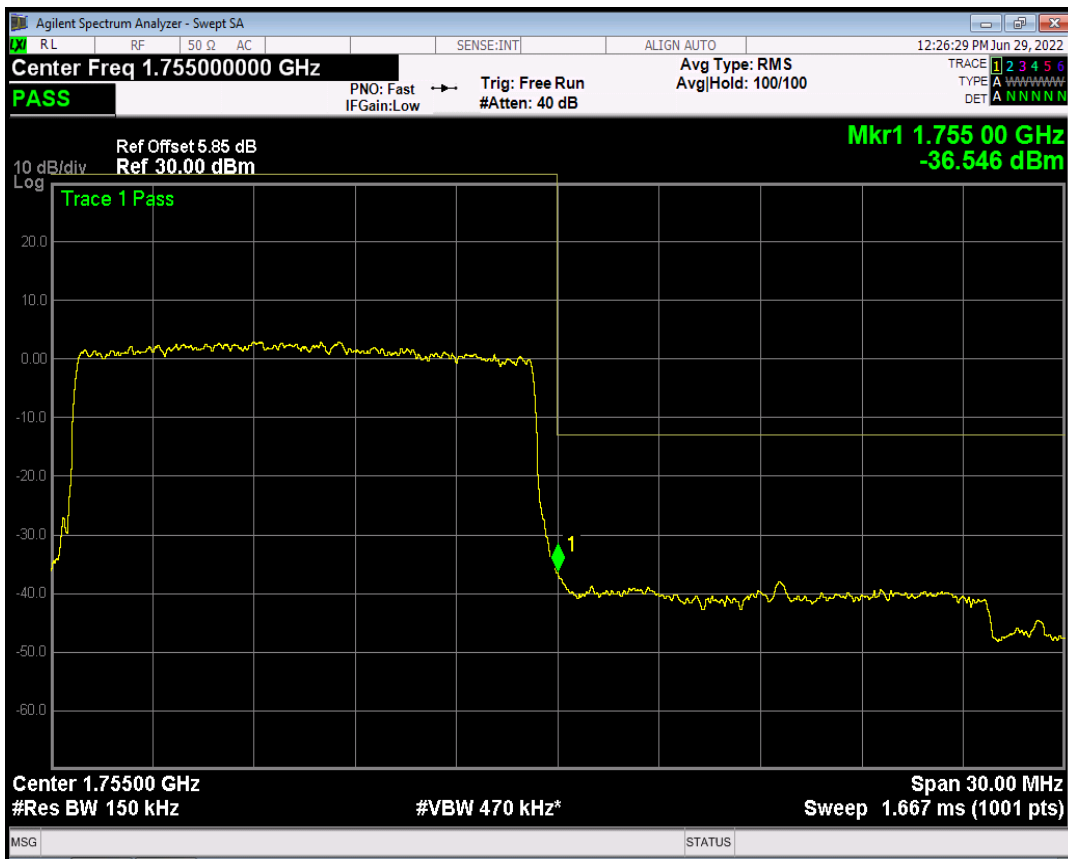


Band4 QAM16 BW=15MHz Channel=20025 RB Size=75 Position=#0





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

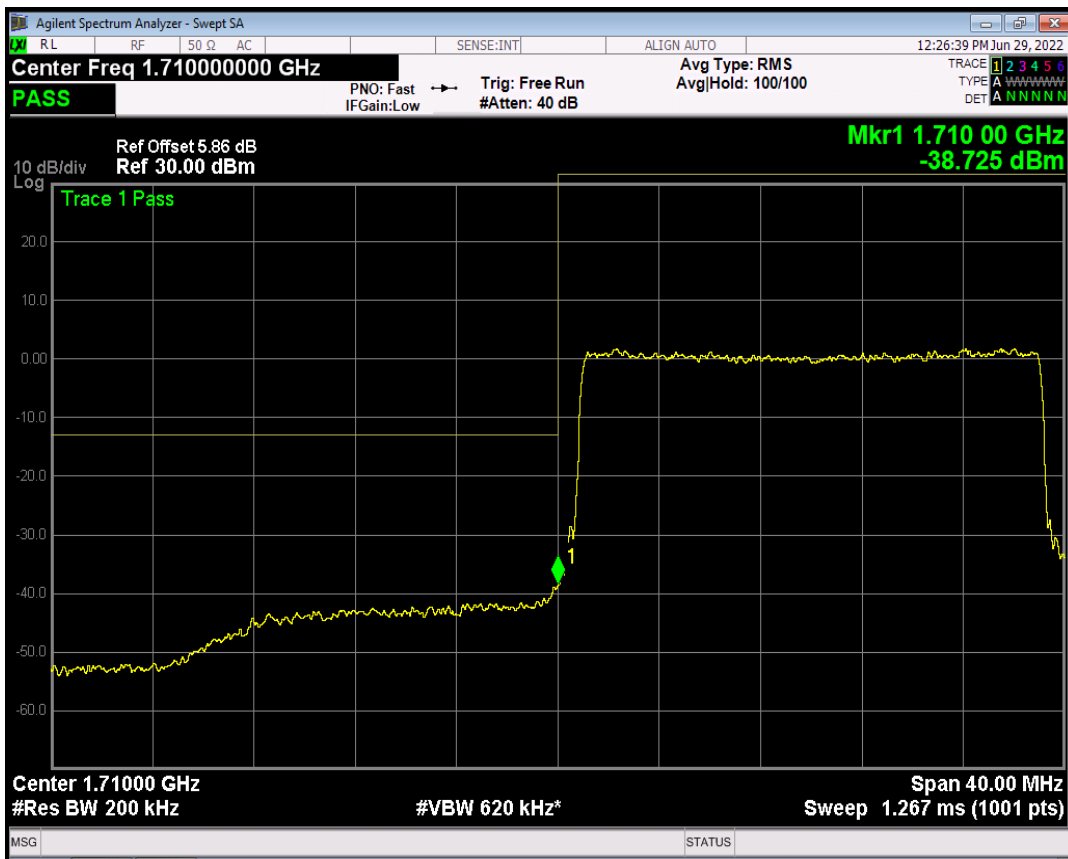


Band4 QAM16 BW=15MHz Channel=20325 RB Size=75 Position=#0

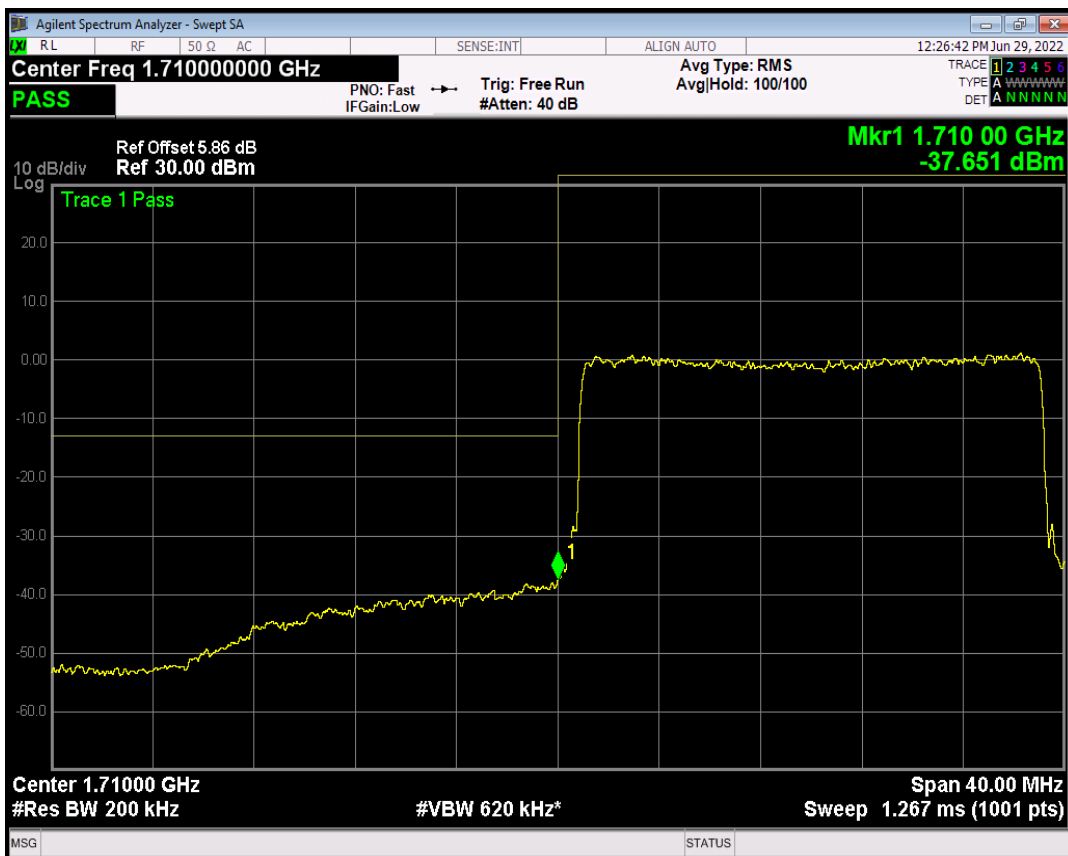




Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0



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

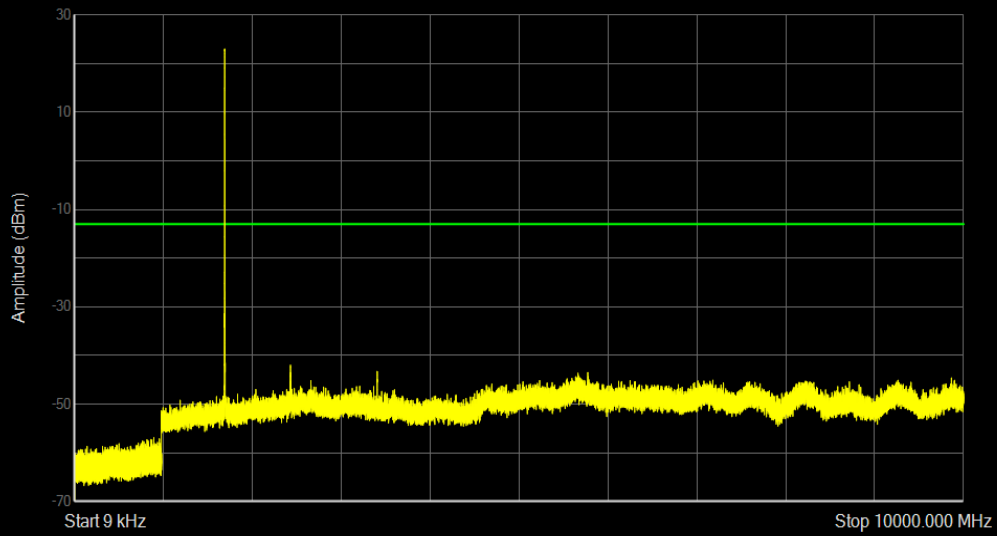


Appendix 6. Out-of-band emissions

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	2448.78	-41.98	-13	PASS
Band4	1.4	19957	6	#0	QAM16	2448.55	-40.10	-13	PASS
Band4	1.4	20175	6	#0	QPSK	3465.33	-42.44	-13	PASS
Band4	1.4	20175	6	#0	QAM16	3464.88	-43.61	-13	PASS
Band4	1.4	20393	6	#0	QPSK	1760.73	-41.43	-13	PASS
Band4	1.4	20393	6	#0	QAM16	5693.05	-42.82	-13	PASS
Band4	3	19965	15	#0	QPSK	8265.48	-44.01	-13	PASS
Band4	3	19965	15	#0	QAM16	7098.40	-43.48	-13	PASS
Band4	3	20175	15	#0	QPSK	6195.93	-43.57	-13	PASS
Band4	3	20175	15	#0	QAM16	5640.40	-42.95	-13	PASS
Band4	3	20385	15	#0	QPSK	7141.60	-43.51	-13	PASS
Band4	3	20385	15	#0	QAM16	5729.73	-43.25	-13	PASS
Band4	5	19975	25	#0	QPSK	5786.65	-43.53	-13	PASS
Band4	5	19975	25	#0	QAM16	5641.30	-43.77	-13	PASS
Band4	5	20175	25	#0	QPSK	5843.35	-43.78	-13	PASS
Band4	5	20175	25	#0	QAM16	2444.05	-43.03	-13	PASS
Band4	5	20375	25	#0	QPSK	2445.18	-42.73	-13	PASS
Band4	5	20375	25	#0	QAM16	5688.33	-43.56	-13	PASS
Band4	10	20000	50	#0	QPSK	2442.03	-42.59	-13	PASS
Band4	10	20000	50	#0	QAM16	5571.78	-43.77	-13	PASS
Band4	10	20175	50	#0	QPSK	2444.95	-43.76	-13	PASS
Band4	10	20175	50	#0	QAM16	2443.38	-43.85	-13	PASS
Band4	10	20350	50	#0	QPSK	2444.73	-43.59	-13	PASS
Band4	10	20350	50	#0	QAM16	2445.85	-43.55	-13	PASS
Band4	15	20025	75	#0	QPSK	2443.38	-43.37	-13	PASS
Band4	15	20025	75	#0	QAM16	5711.95	-43.73	-13	PASS
Band4	15	20175	75	#0	QPSK	5690.80	-42.78	-13	PASS
Band4	15	20175	75	#0	QAM16	6567.85	-43.32	-13	PASS
Band4	15	20325	75	#0	QPSK	5697.10	-43.52	-13	PASS
Band4	15	20325	75	#0	QAM16	2445.18	-41.88	-13	PASS
Band4	20	20050	100	#0	QPSK	9262.90	-42.14	-13	PASS
Band4	20	20050	100	#0	QAM16	5964.63	-43.30	-13	PASS
Band4	20	20175	100	#0	QPSK	2444.73	-42.06	-13	PASS
Band4	20	20175	100	#0	QAM16	2445.63	-42.61	-13	PASS
Band4	20	20300	100	#0	QPSK	5656.15	-43.34	-13	PASS
Band4	20	20300	100	#0	QAM16	5684.95	-43.42	-13	PASS

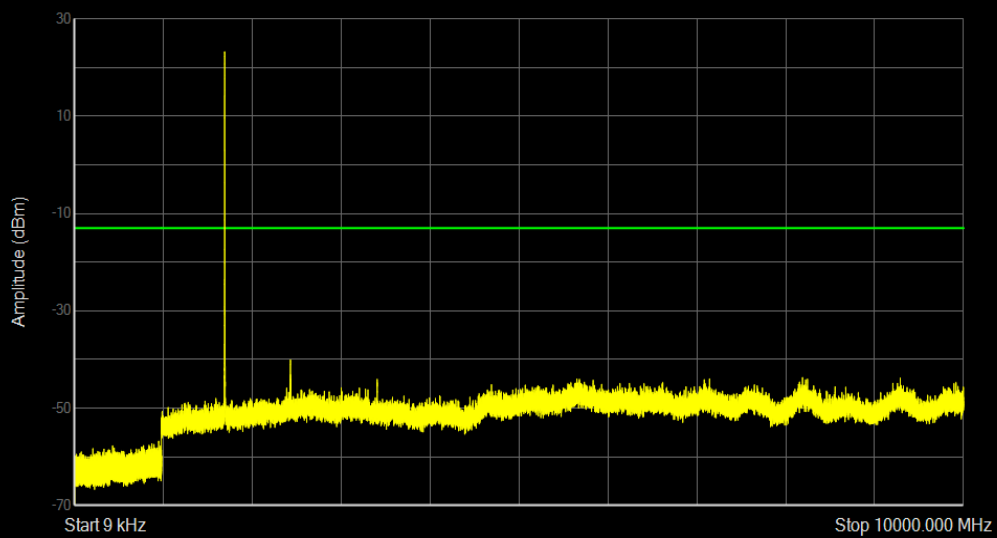


Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0



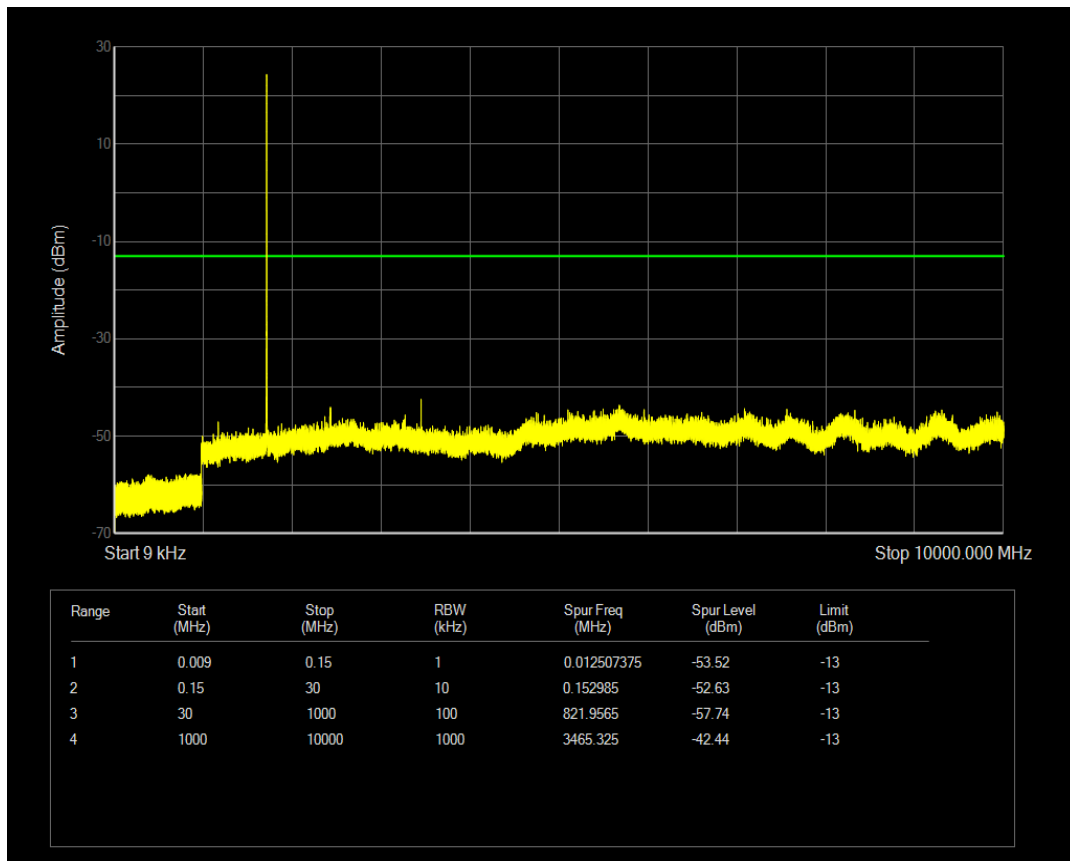
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009987	-54.53	-13
2	0.15	30	10	0.16791	-55.62	-13
3	30	1000	100	916.60425	-56.91	-13
4	1000	10000	1000	2448.775	-41.98	-13

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

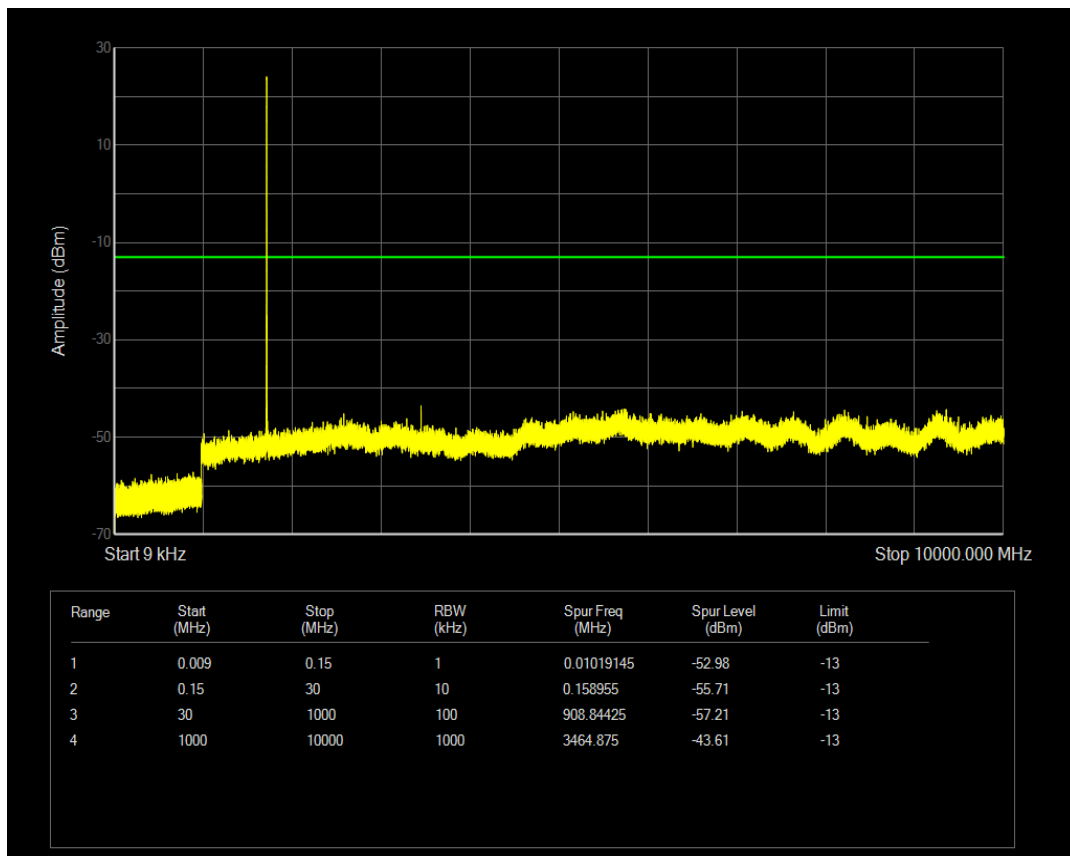


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011471025	-54.94	-13
2	0.15	30	10	0.16865625	-55.27	-13
3	30	1000	100	970.43925	-56.78	-13
4	1000	10000	1000	2448.55	-40.1	-13

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

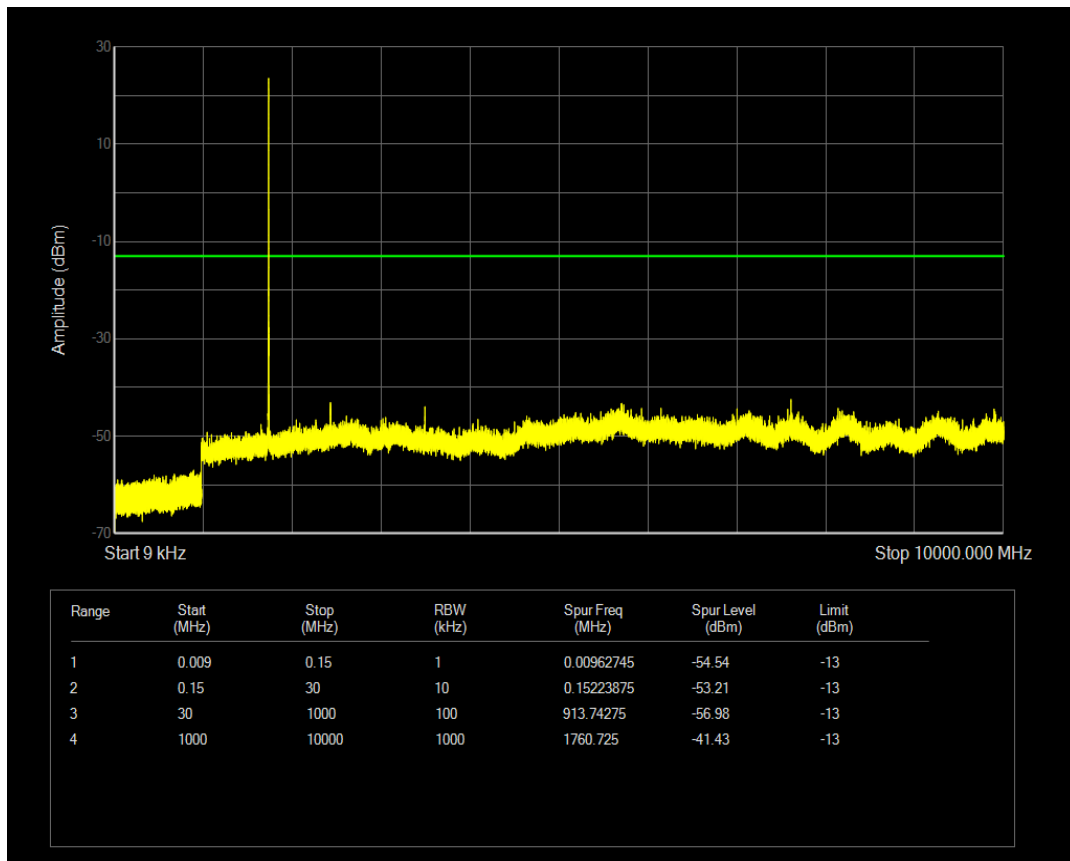


Band4 QAM16 BW=1.4MHz Channel=20175 RB Size=6 Position=#0

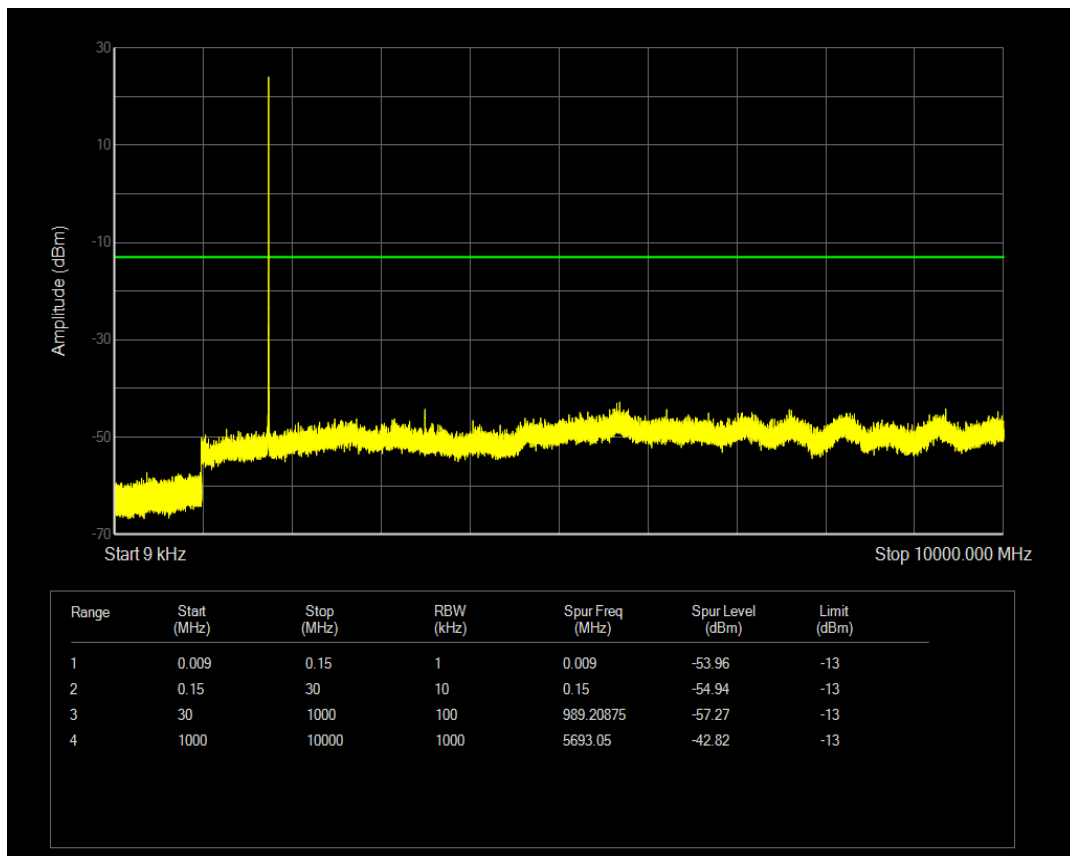




Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

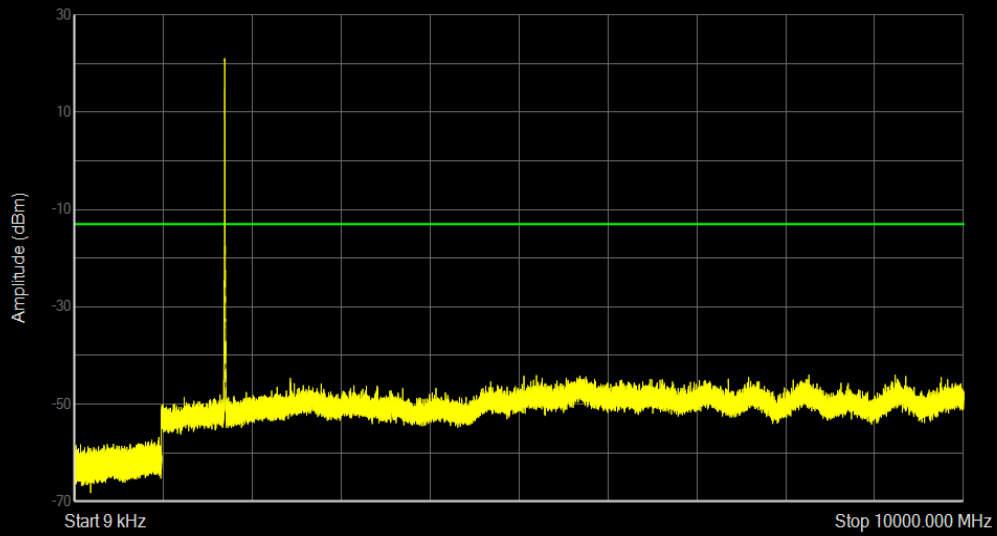


Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0



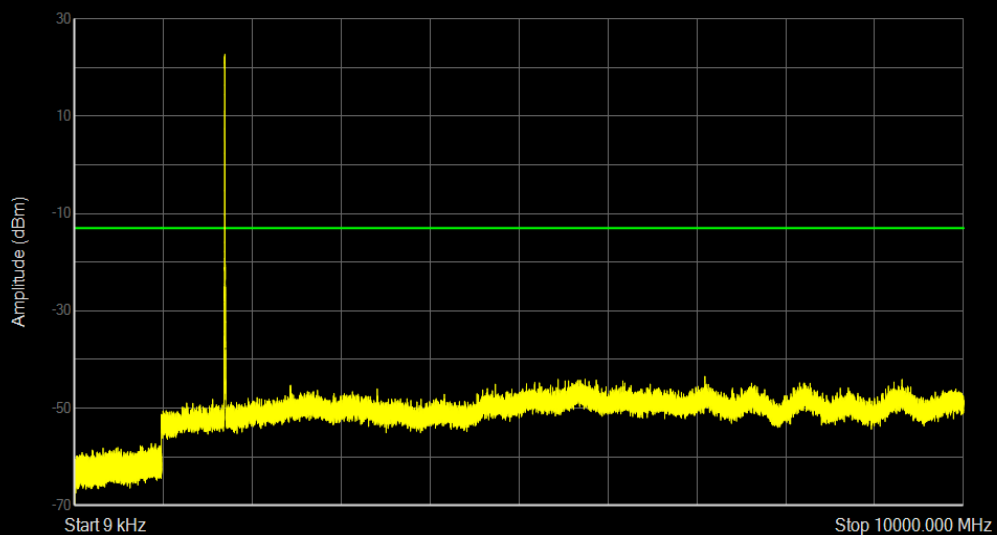


Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01225005	-53.31	-13
2	0.15	30	10	0.1544775	-53.65	-13
3	30	1000	100	971.8215	-56.81	-13
4	1000	10000	1000	8265.475	-44.01	-13

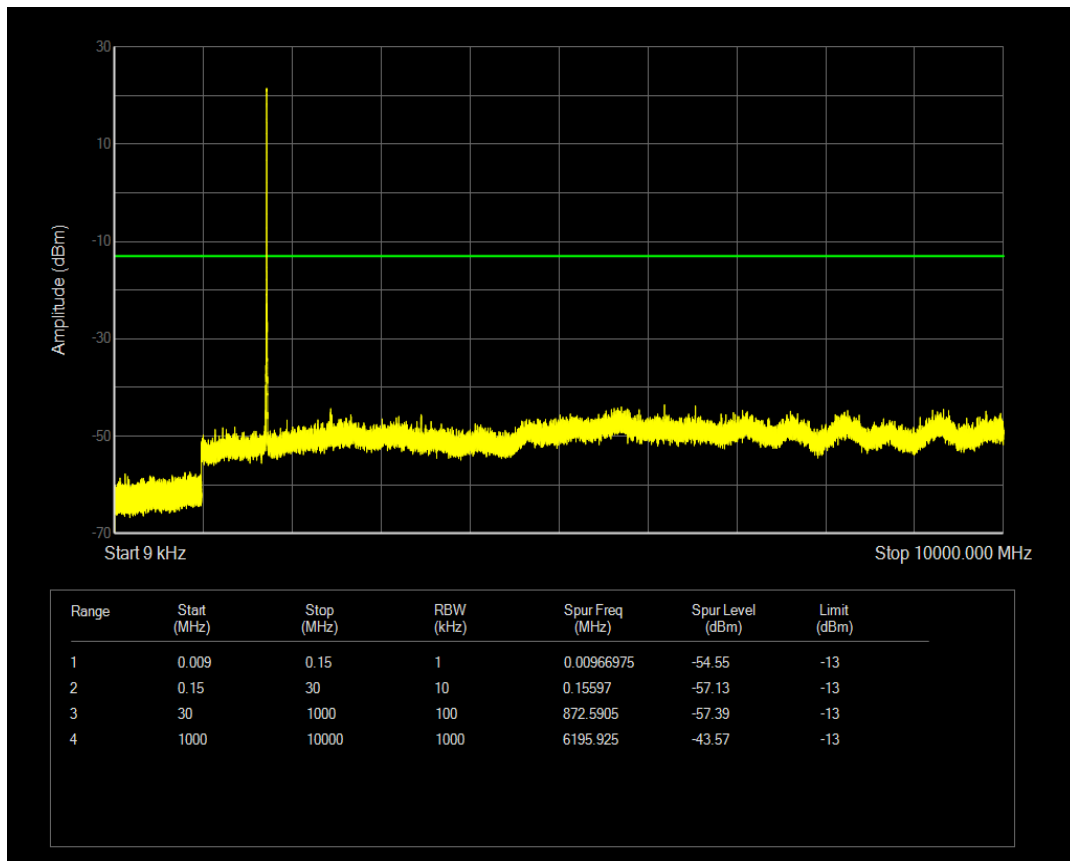
Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0



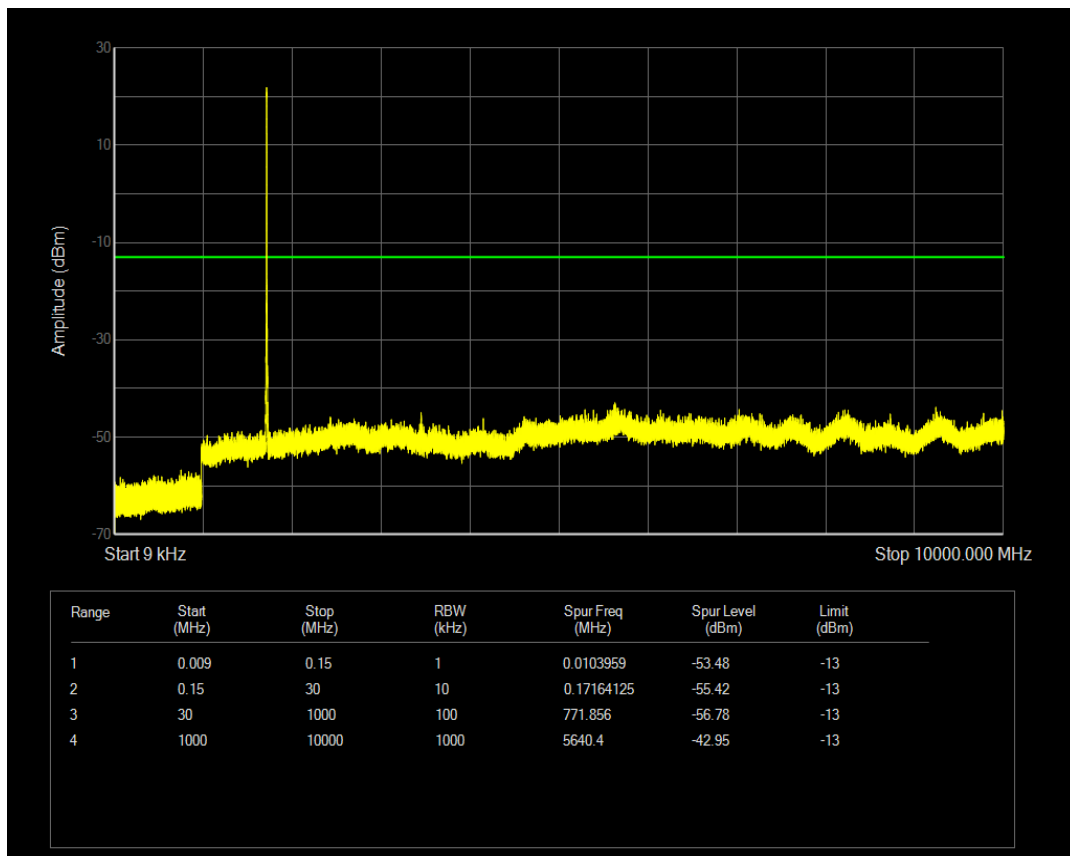
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-54.35	-13
2	0.15	30	10	0.16417875	-54.02	-13
3	30	1000	100	888.4985	-57.27	-13
4	1000	10000	1000	7098.4	-43.48	-13



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

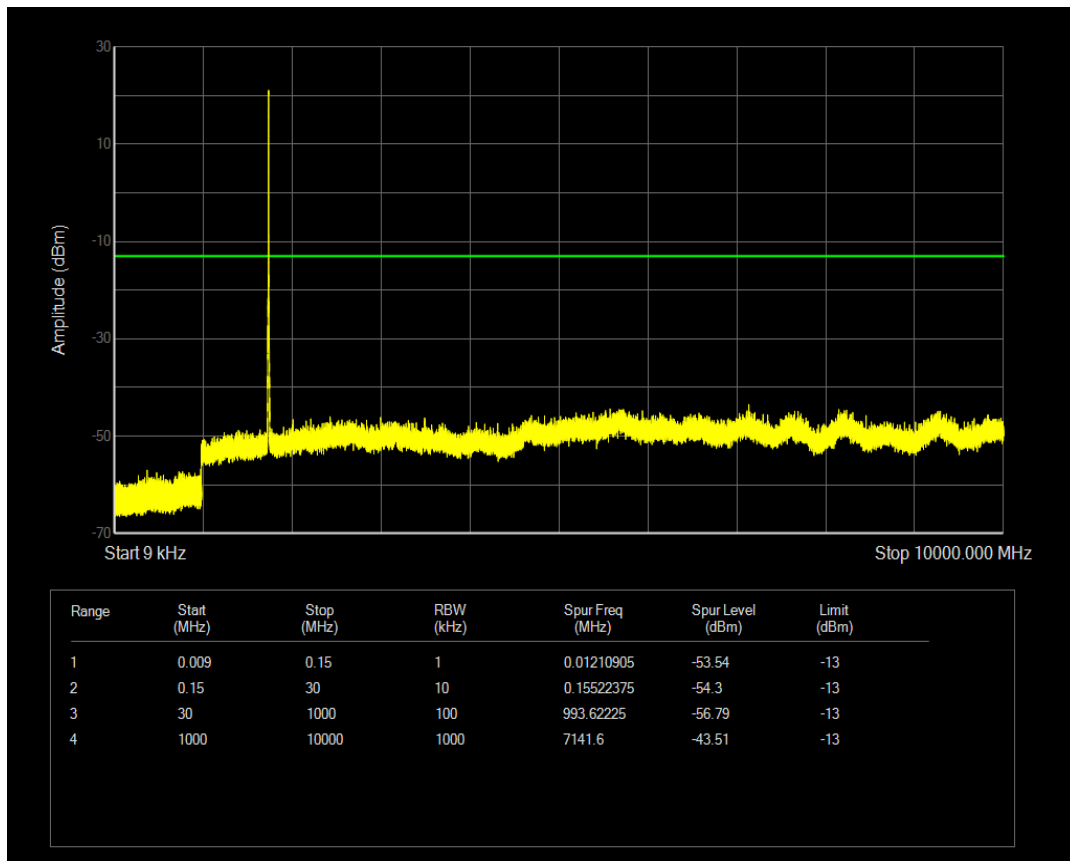


Band4 QAM16 BW=3MHz Channel=20175 RB Size=15 Position=#0

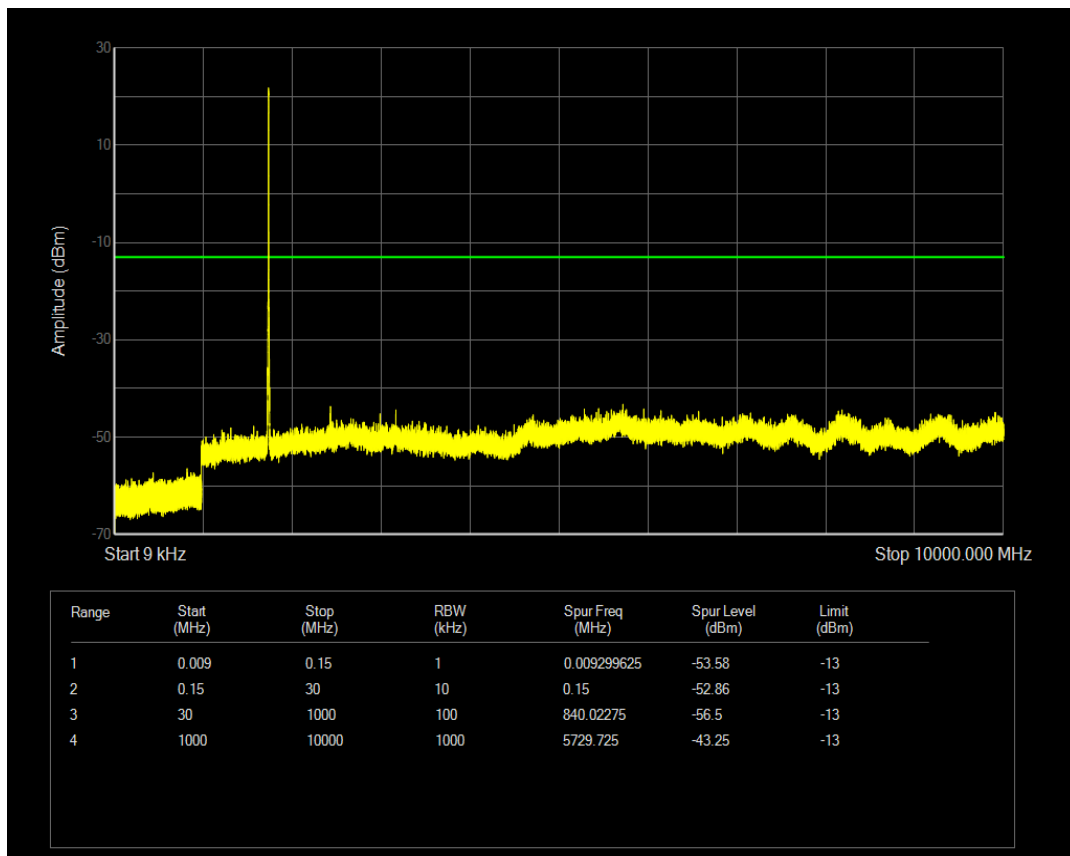




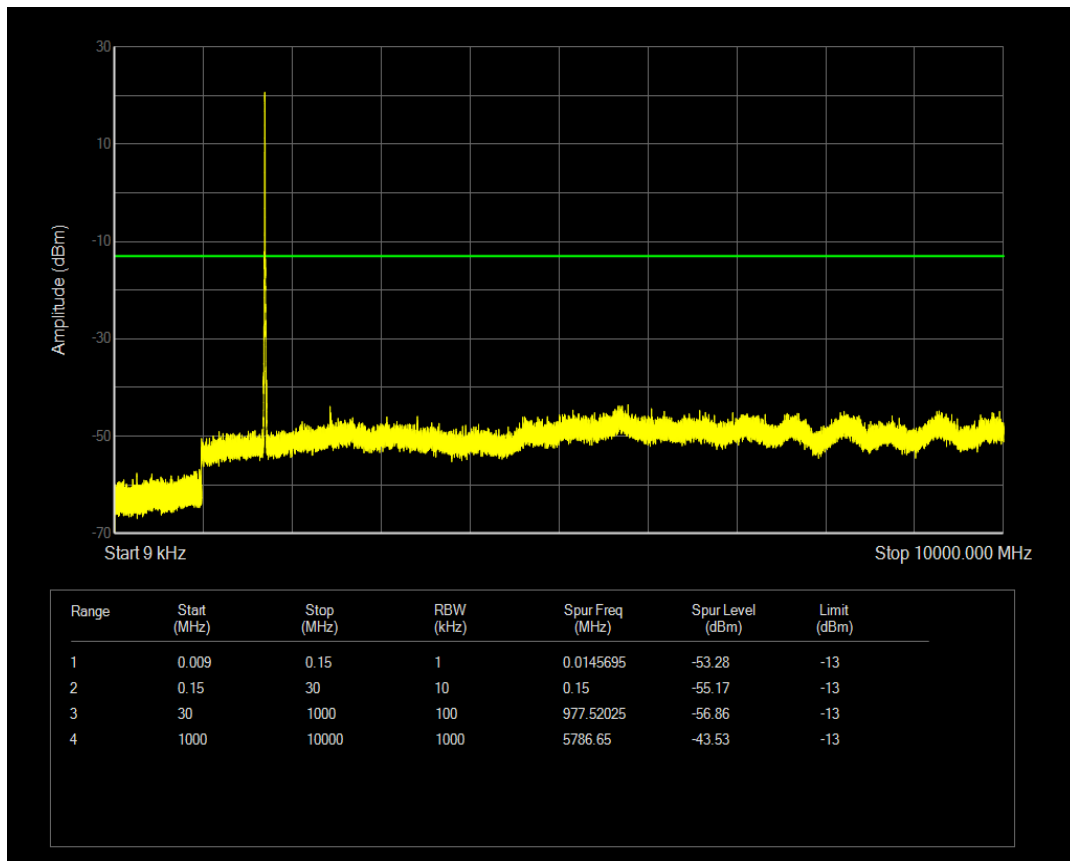
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0



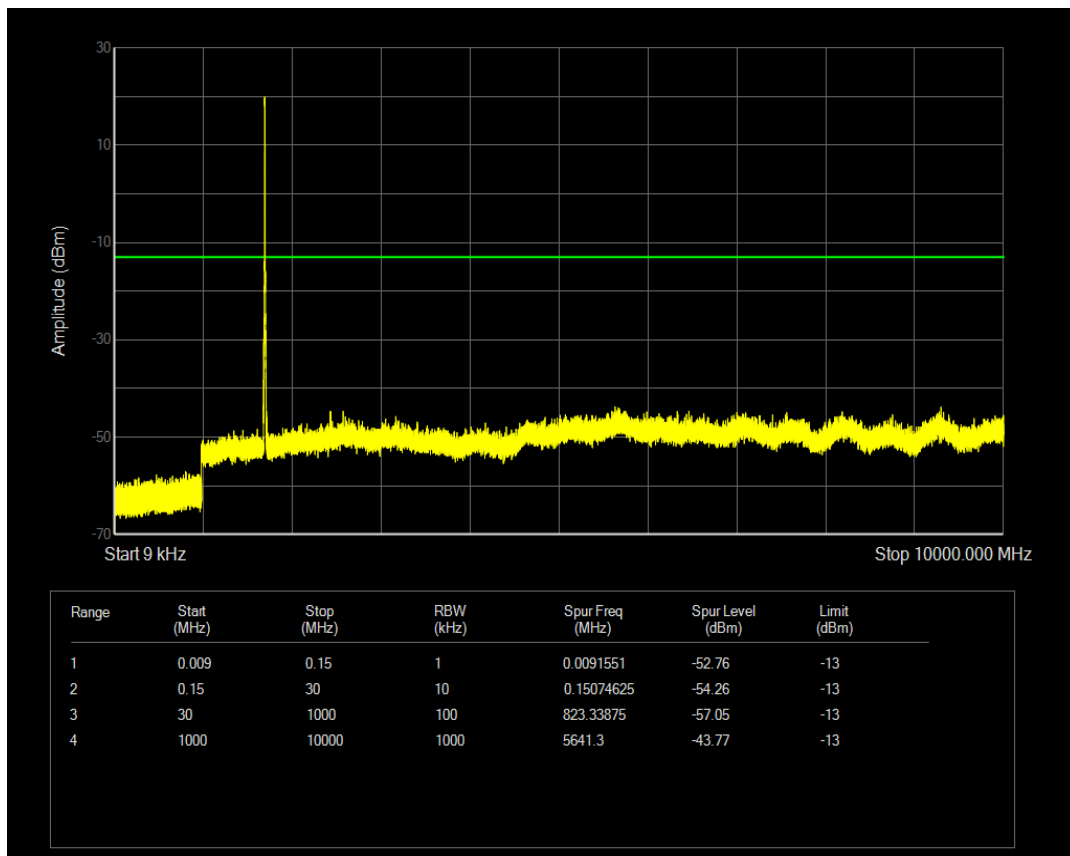
Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0



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

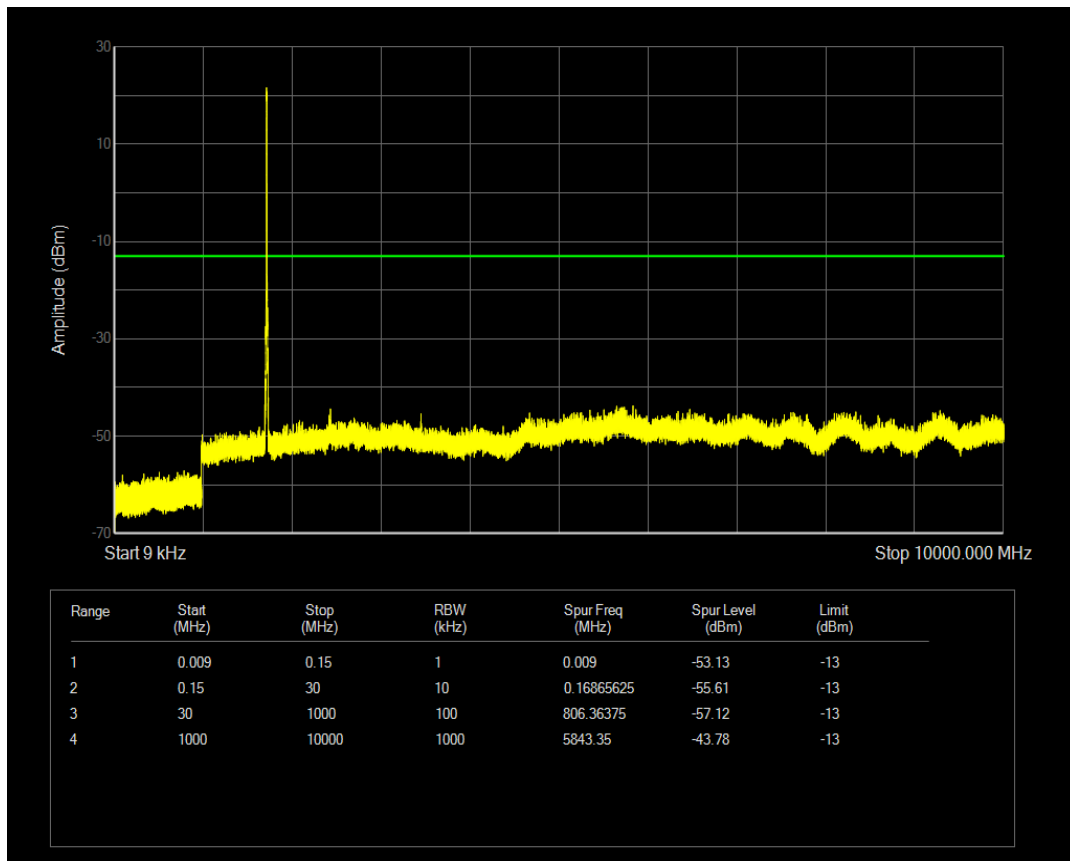


Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0

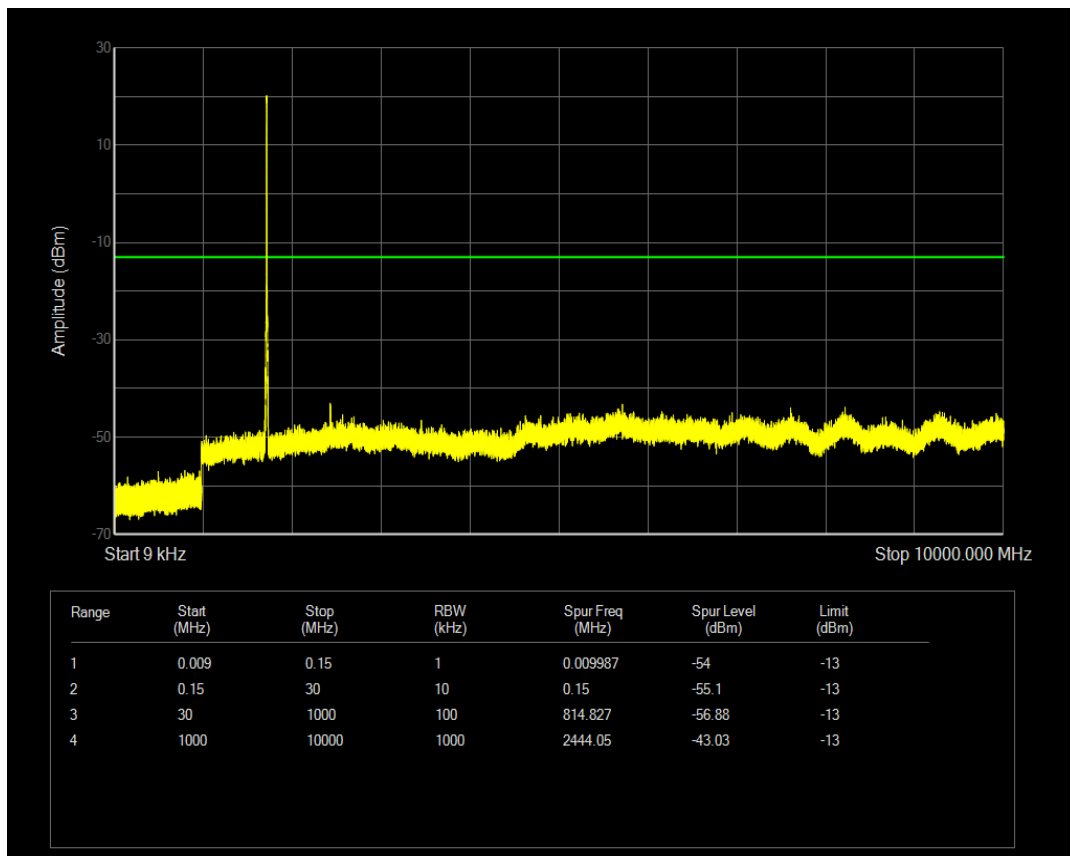




Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0

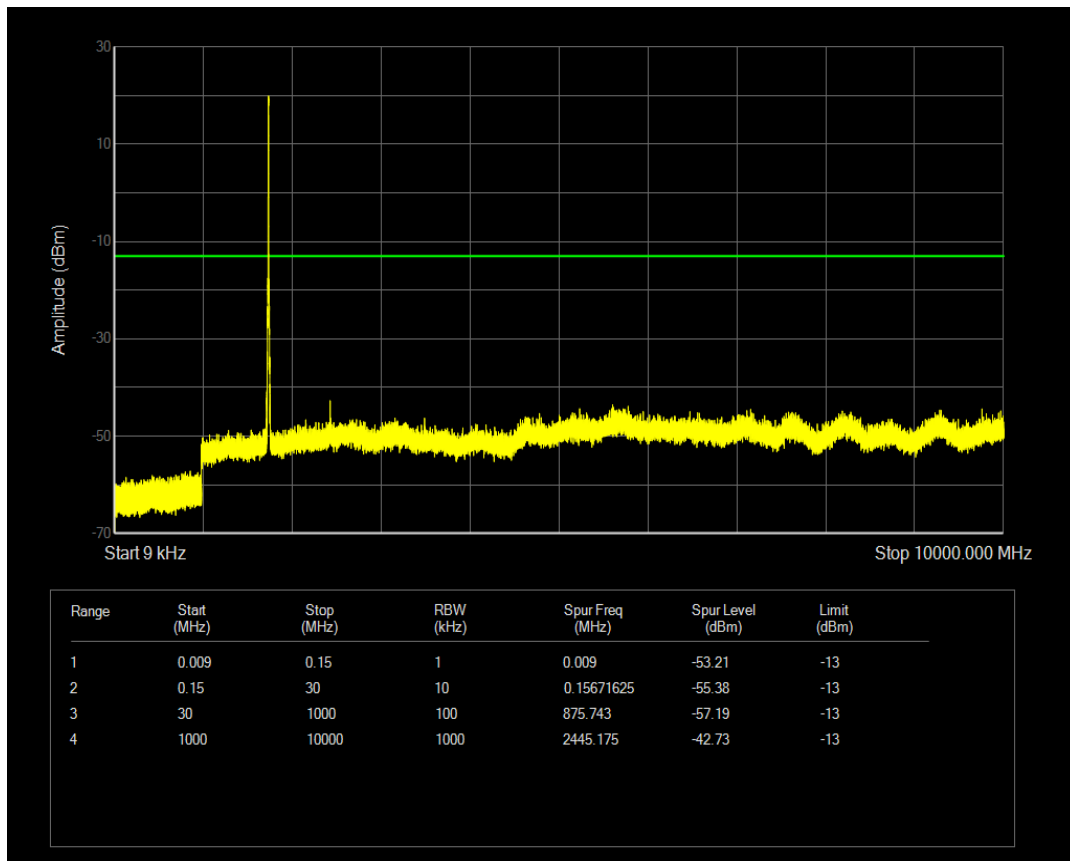


Band4 QAM16 BW=5MHz Channel=20175 RB Size=25 Position=#0

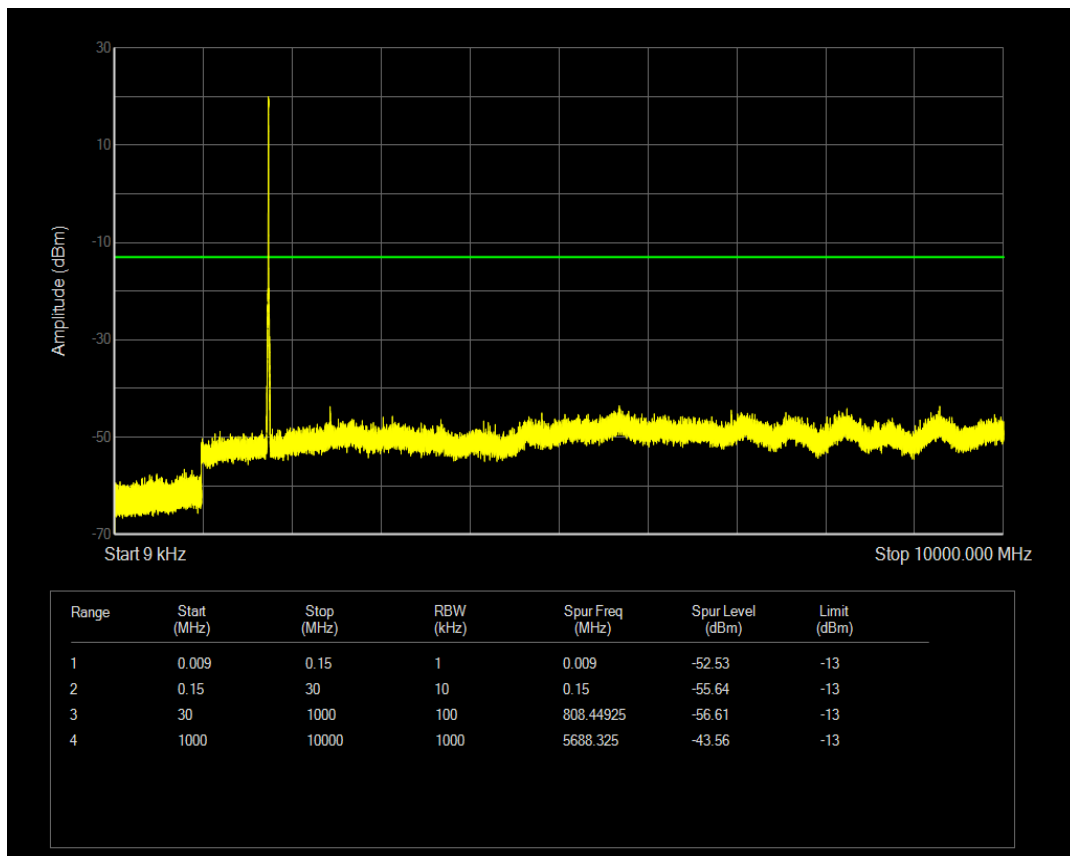




Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0

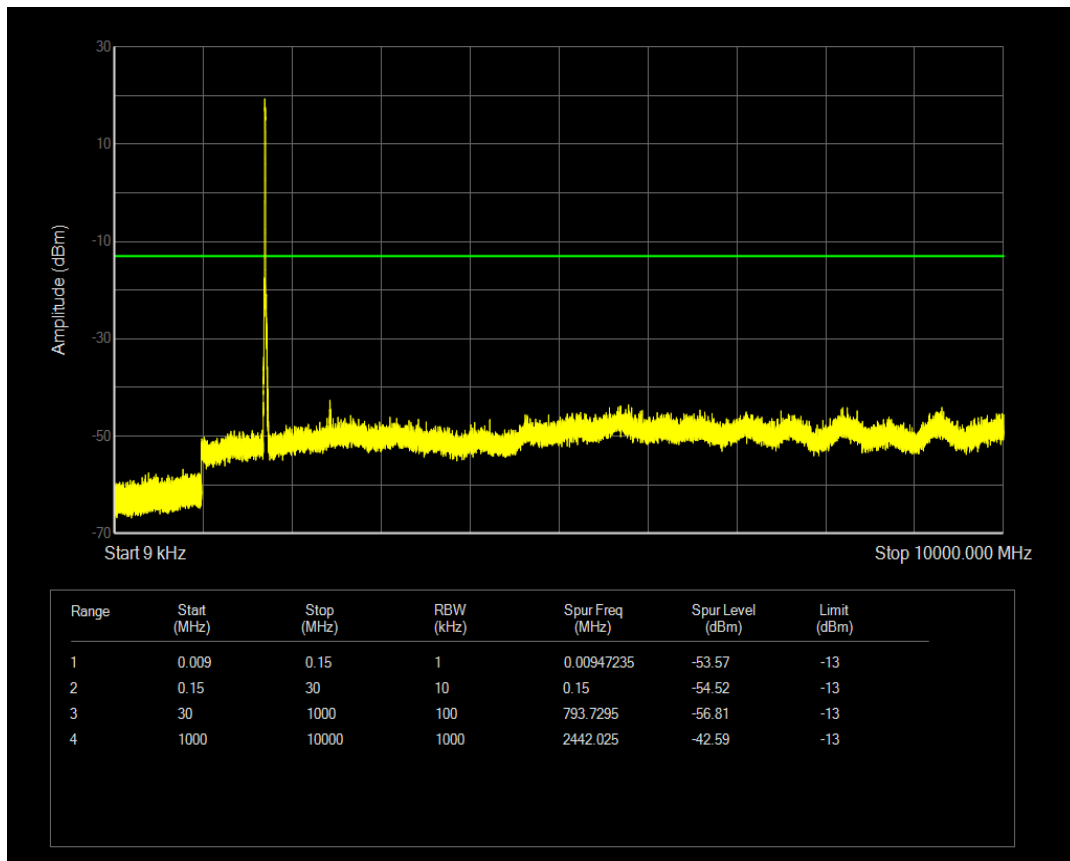


Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0

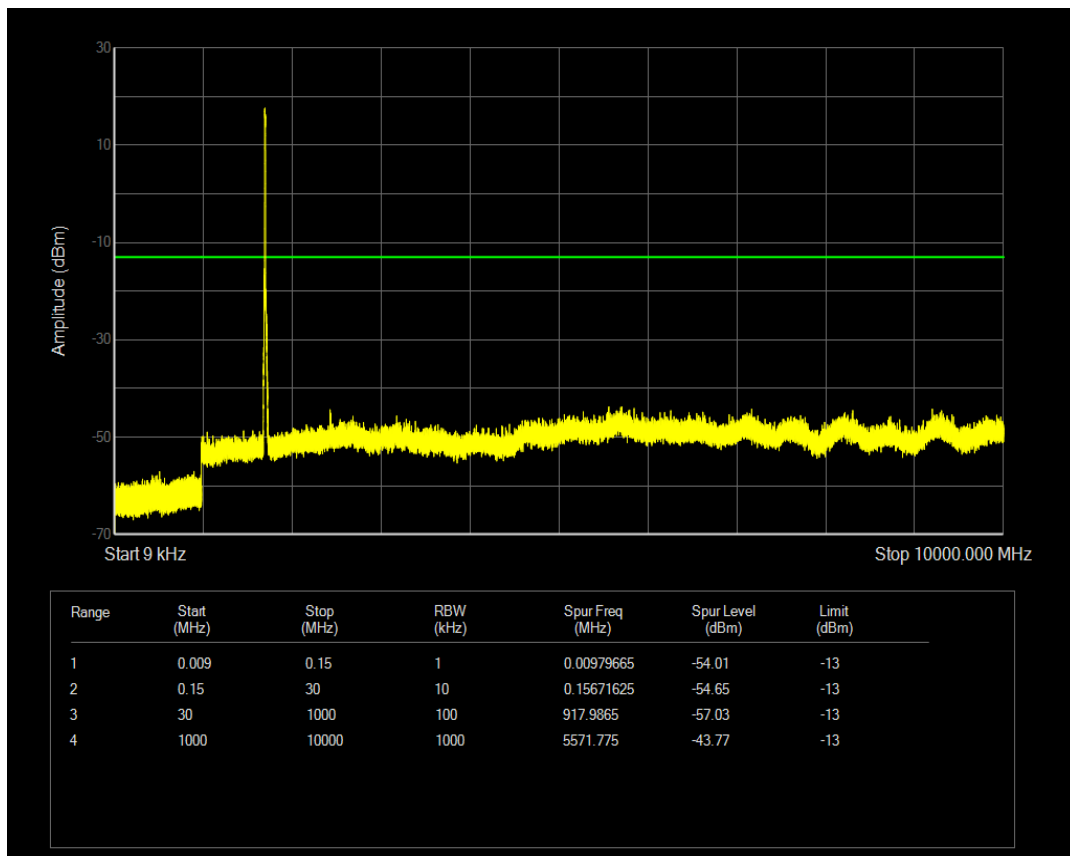




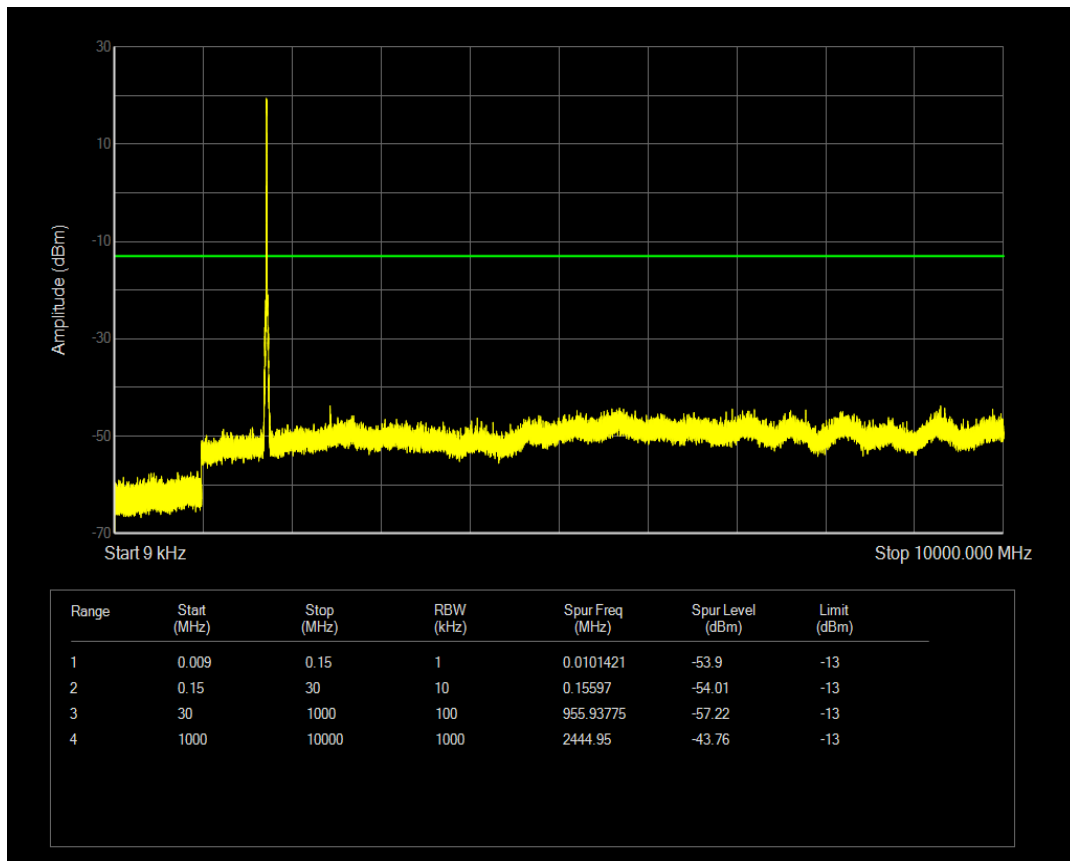
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



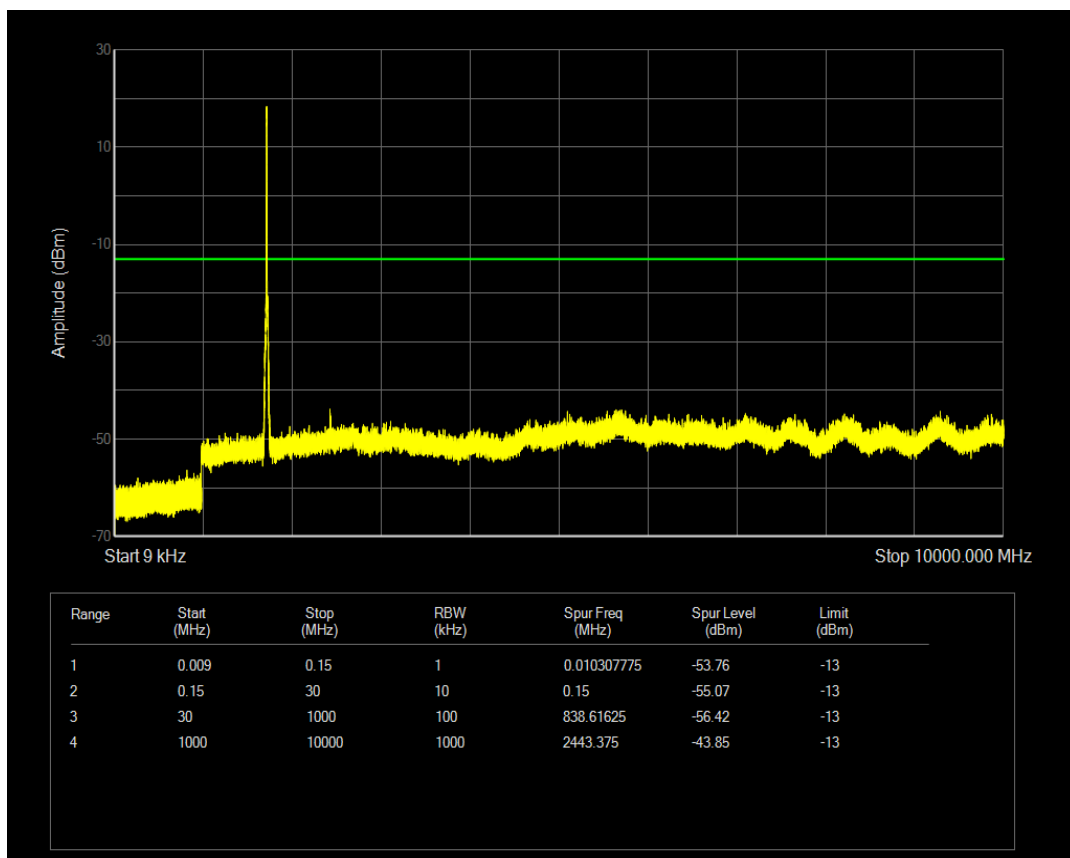
Band4 QAM16 BW=10MHz Channel=20000 RB Size=50 Position=#0



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

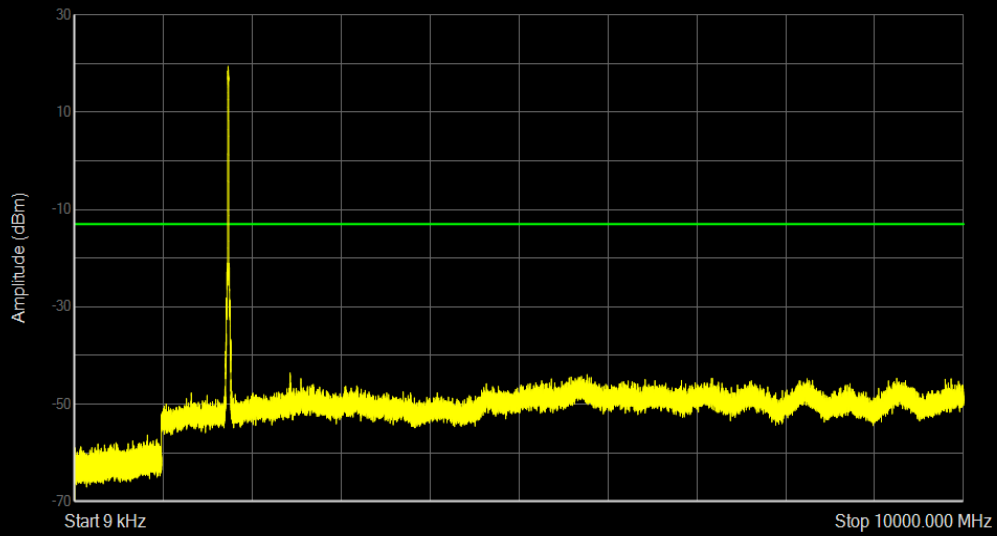


Band4 QAM16 BW=10MHz Channel=20175 RB Size=50 Position=#0



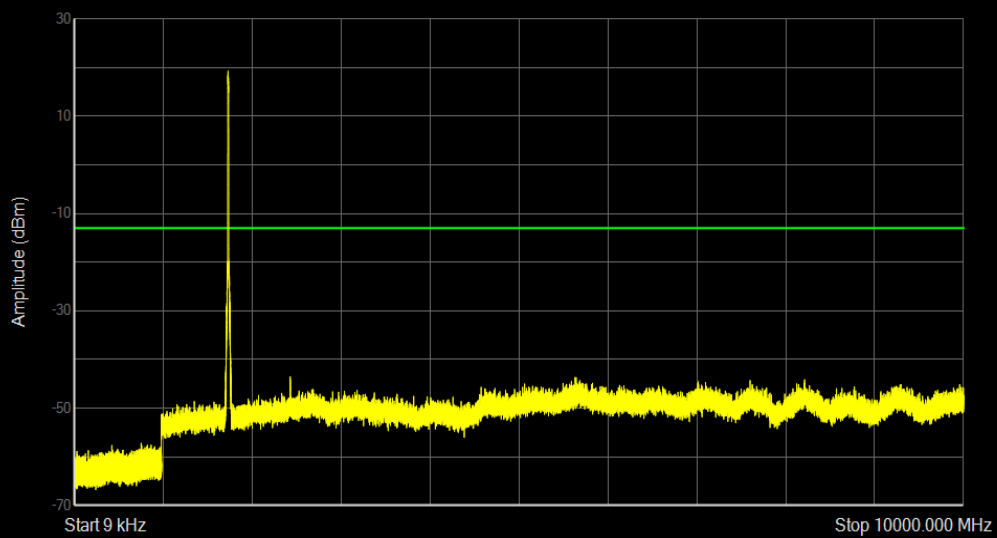


Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0092256	-54.57	-13
2	0.15	30	10	0.1514925	-54.87	-13
3	30	1000	100	843.85425	-56.36	-13
4	1000	10000	1000	2444.725	-43.59	-13

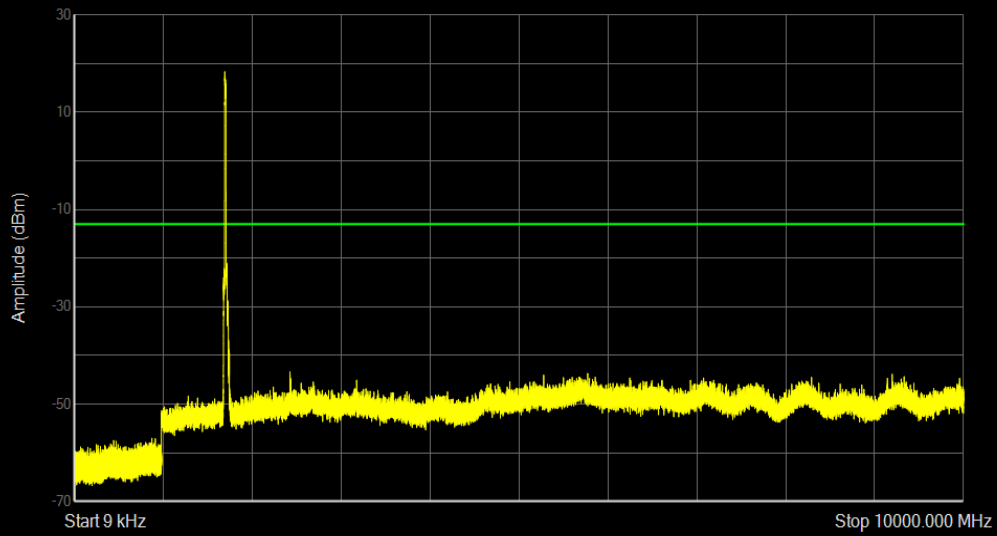
Band4 QAM16 BW=10MHz Channel=20350 RB Size=50 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011745975	-53.58	-13
2	0.15	30	10	0.16194	-54.58	-13
3	30	1000	100	773.602	-57.21	-13
4	1000	10000	1000	2445.85	-43.55	-13

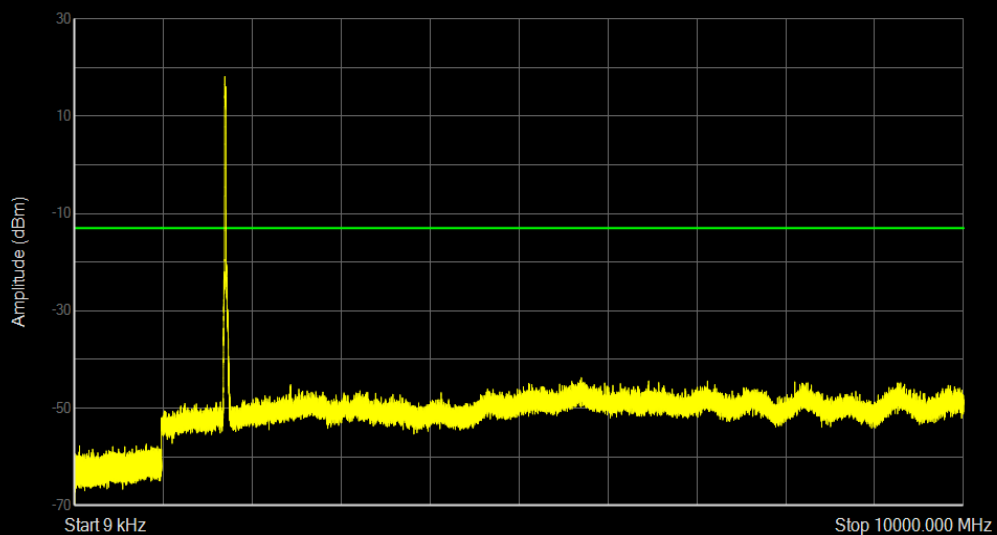


Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0097332	-53.21	-13
2	0.15	30	10	0.15074625	-53.95	-13
3	30	1000	100	894.63375	-57.02	-13
4	1000	10000	1000	2443.375	-43.37	-13

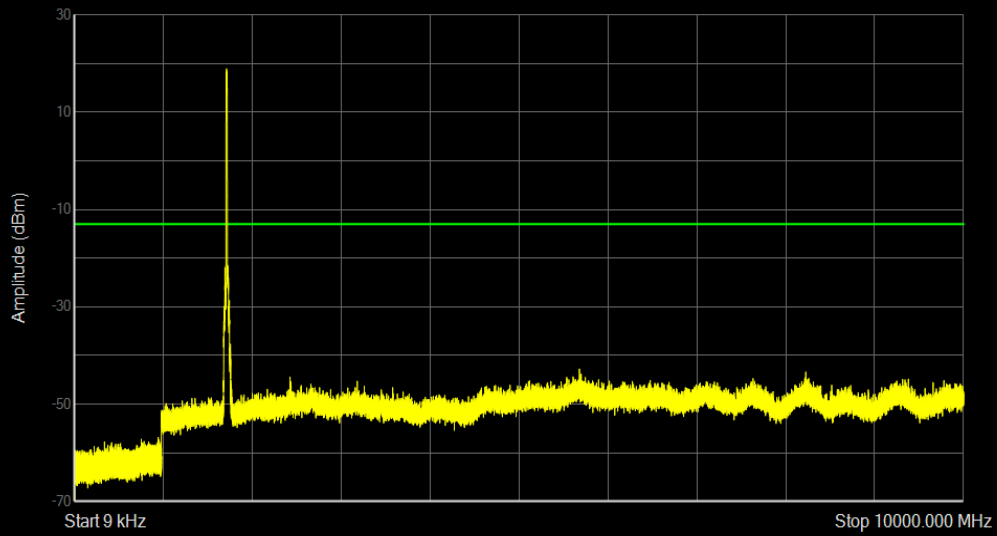
Band4 QAM16 BW=15MHz Channel=20025 RB Size=75 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0100716	-52.71	-13
2	0.15	30	10	0.152985	-53.11	-13
3	30	1000	100	831.3655	-57.39	-13
4	1000	10000	1000	5711.95	-43.73	-13

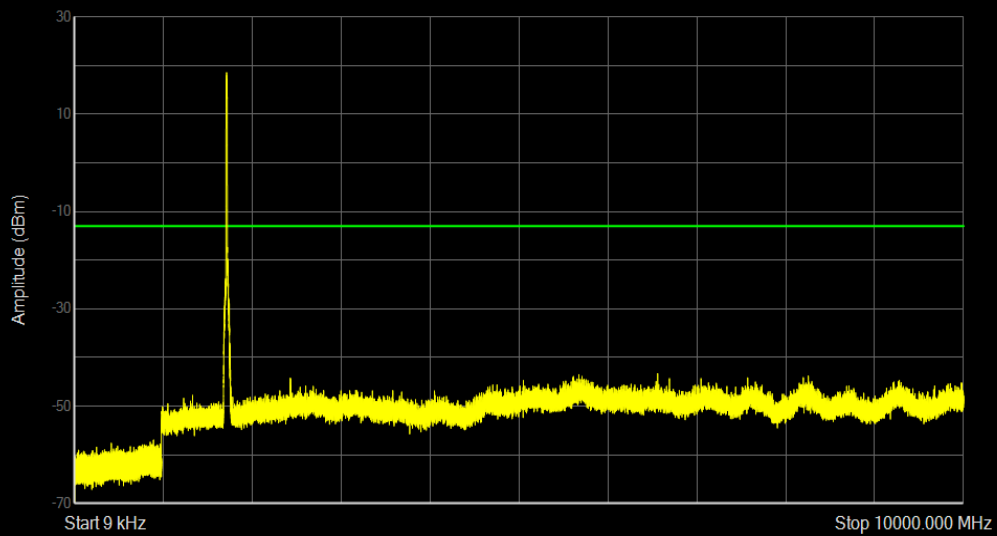


Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0



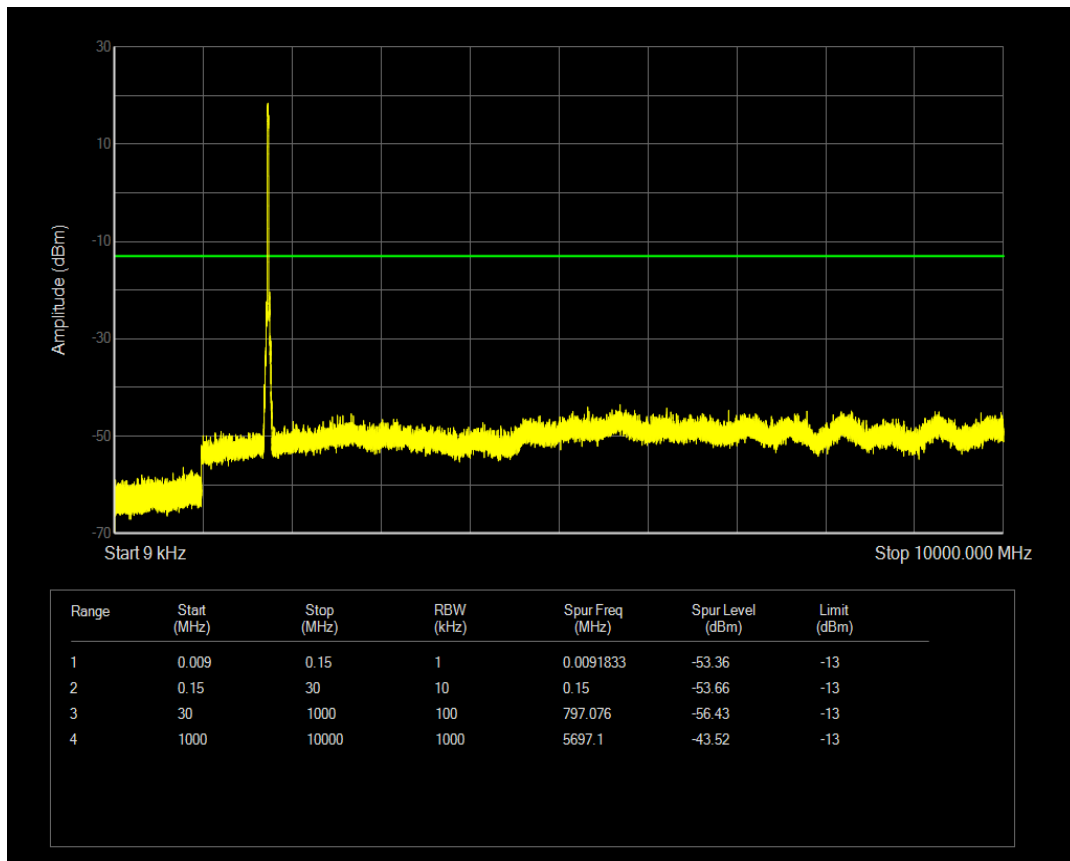
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011541525	-53.74	-13
2	0.15	30	10	0.15	-55.87	-13
3	30	1000	100	964.692	-56.84	-13
4	1000	10000	1000	5690.8	-42.78	-13

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

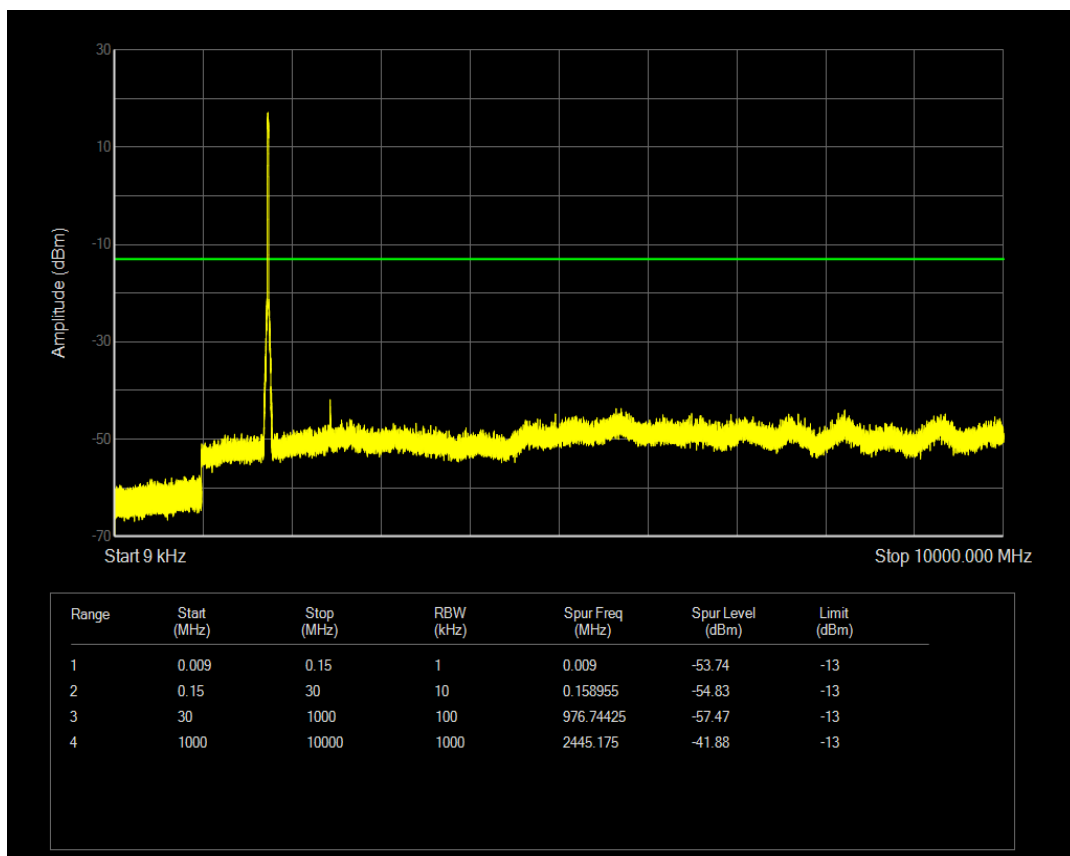


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01041705	-54.28	-13
2	0.15	30	10	0.15223875	-54.09	-13
3	30	1000	100	912.021	-56.97	-13
4	1000	10000	1000	6567.85	-43.32	-13

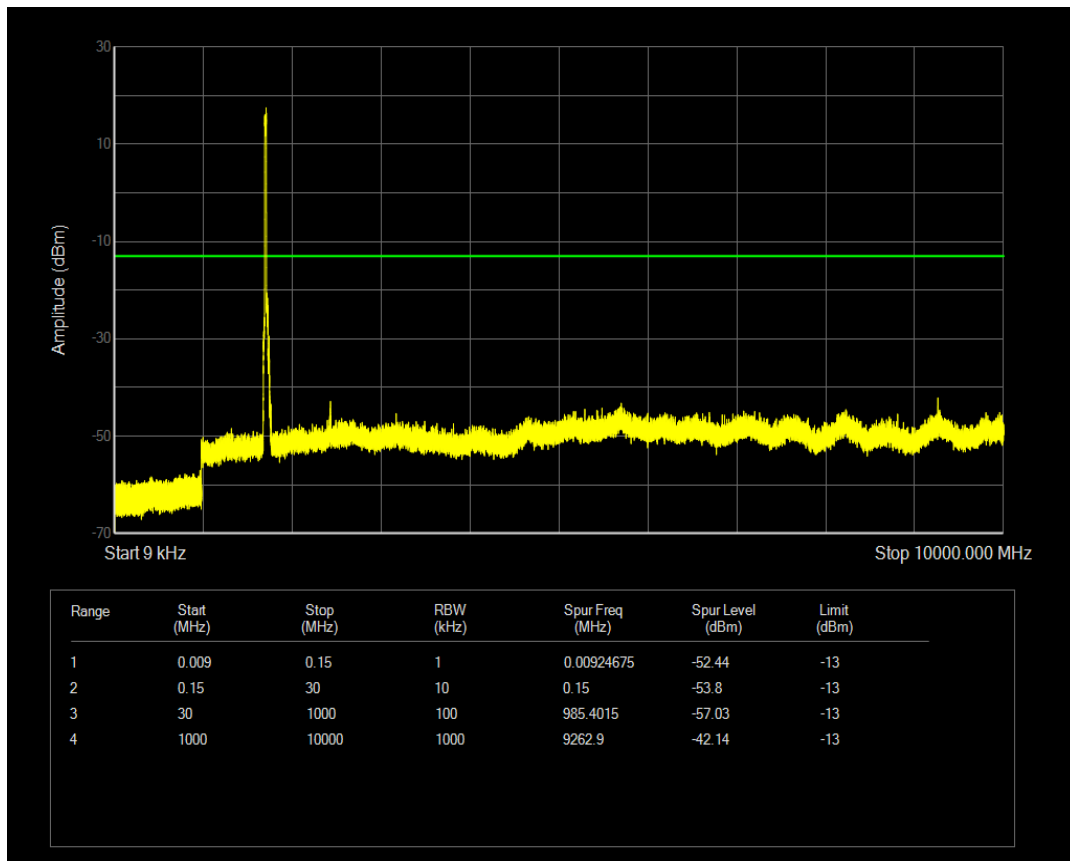
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0



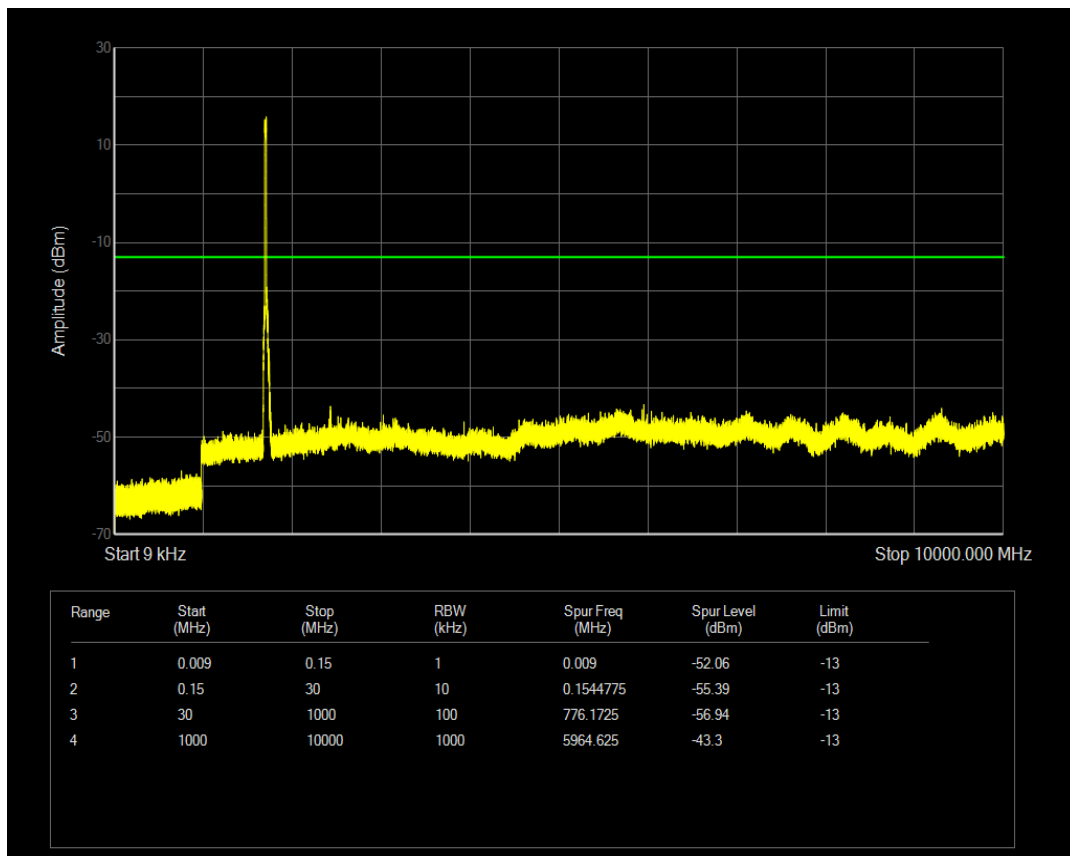
Band4 QAM16 BW=15MHz Channel=20325 RB Size=75 Position=#0



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

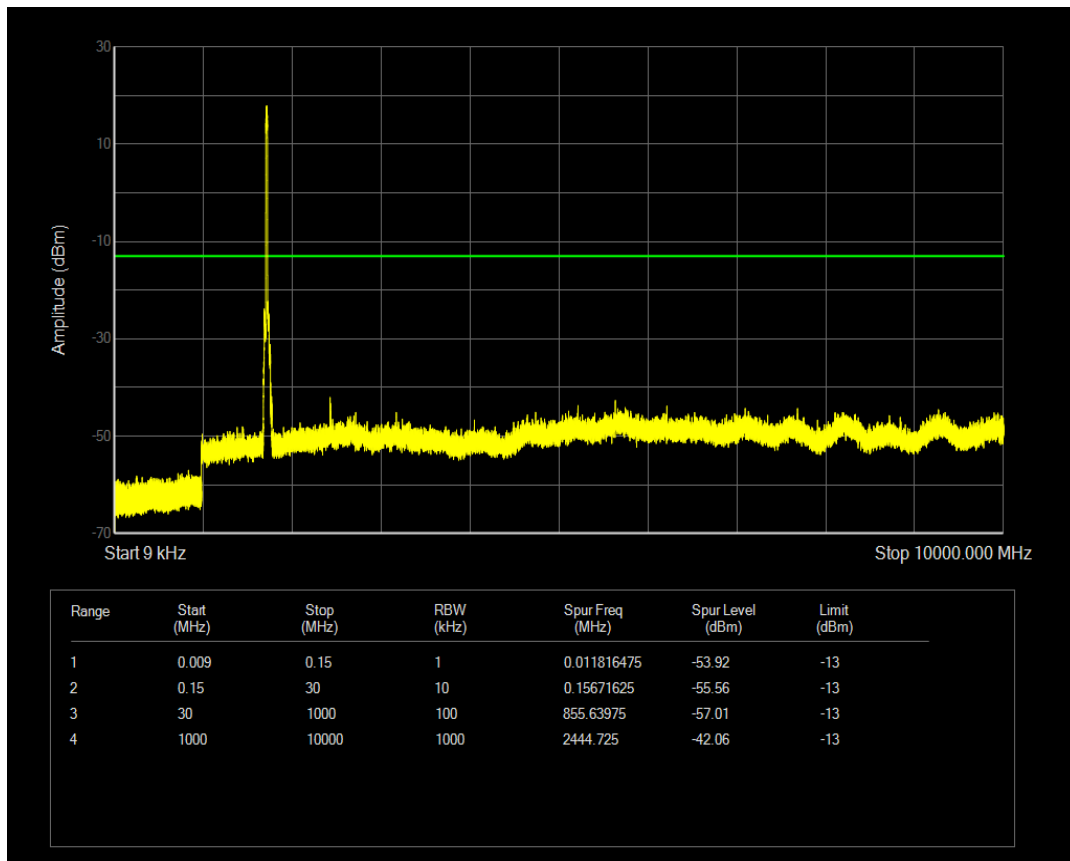


Band4 QAM16 BW=20MHz Channel=20050 RB Size=100 Position=#0

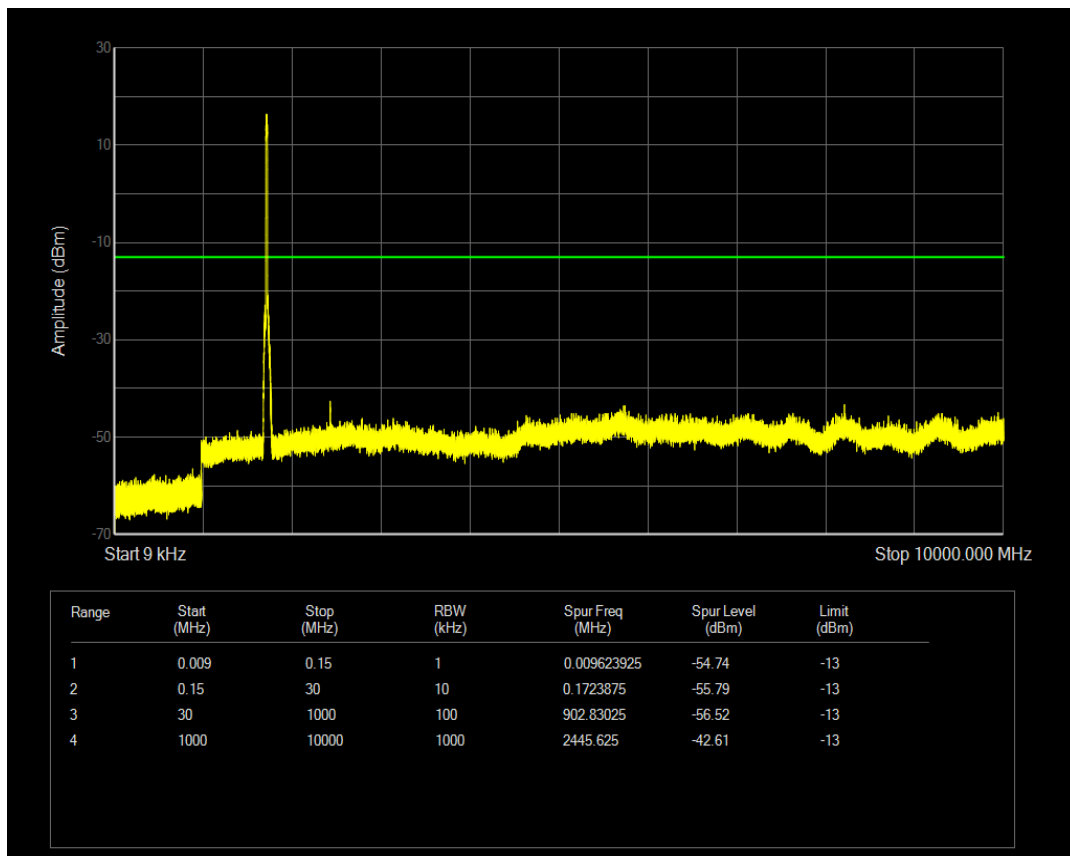




Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0

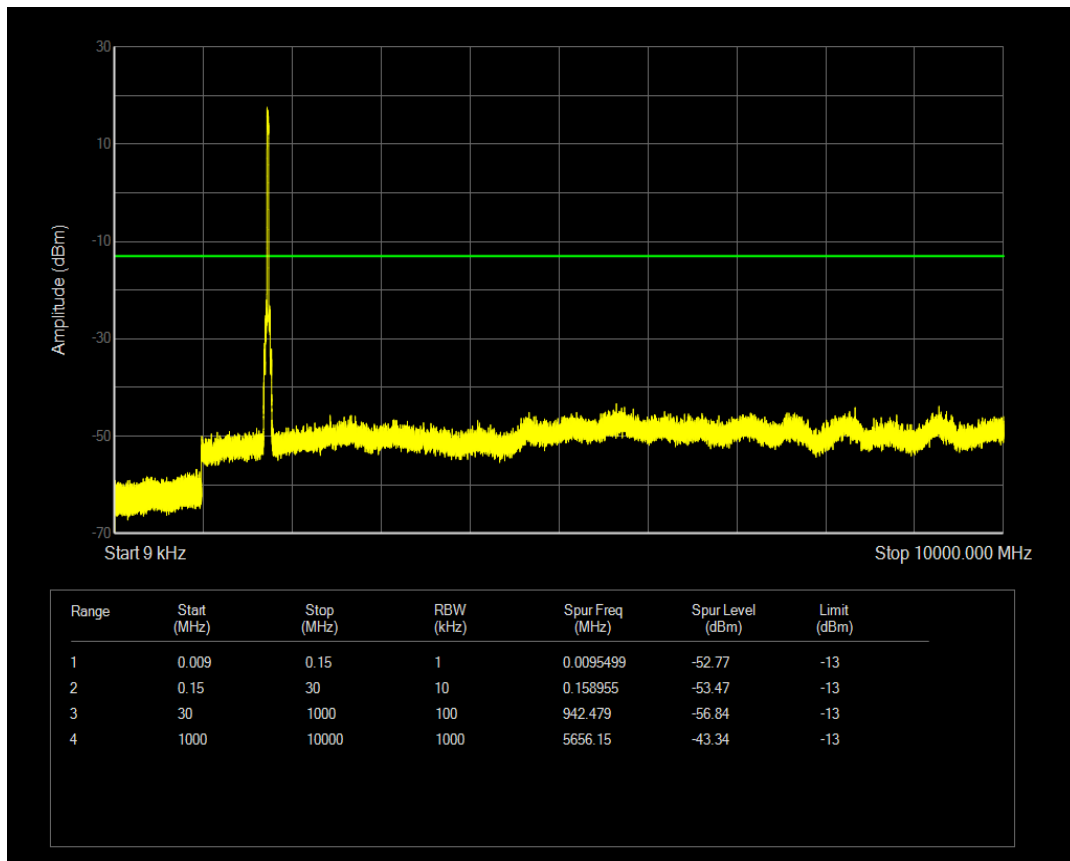


Band4 QAM16 BW=20MHz Channel=20175 RB Size=100 Position=#0





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



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

