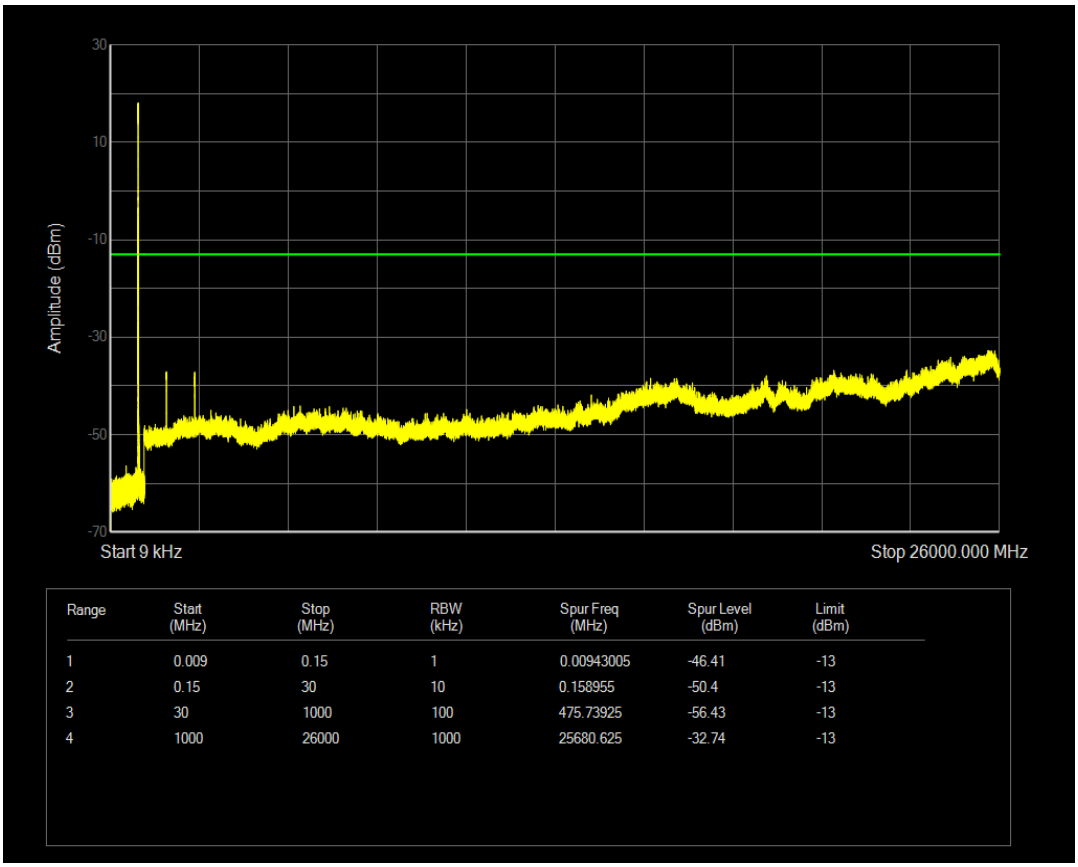
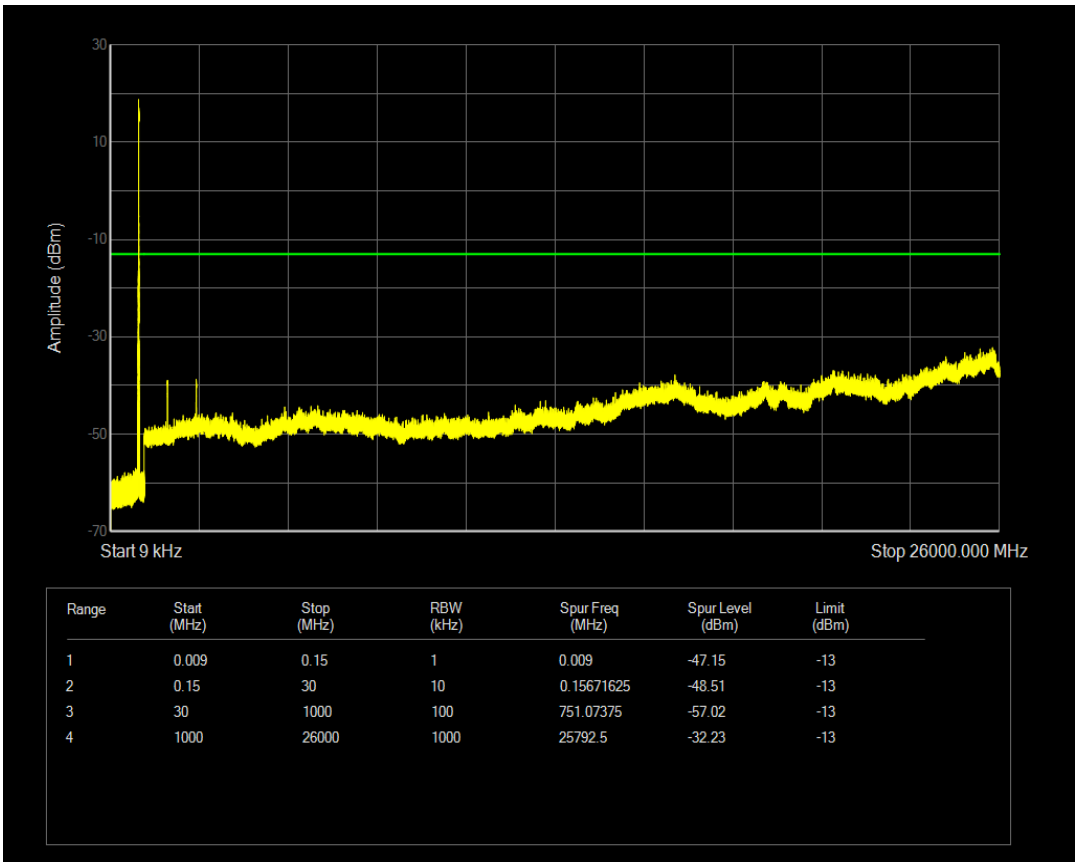


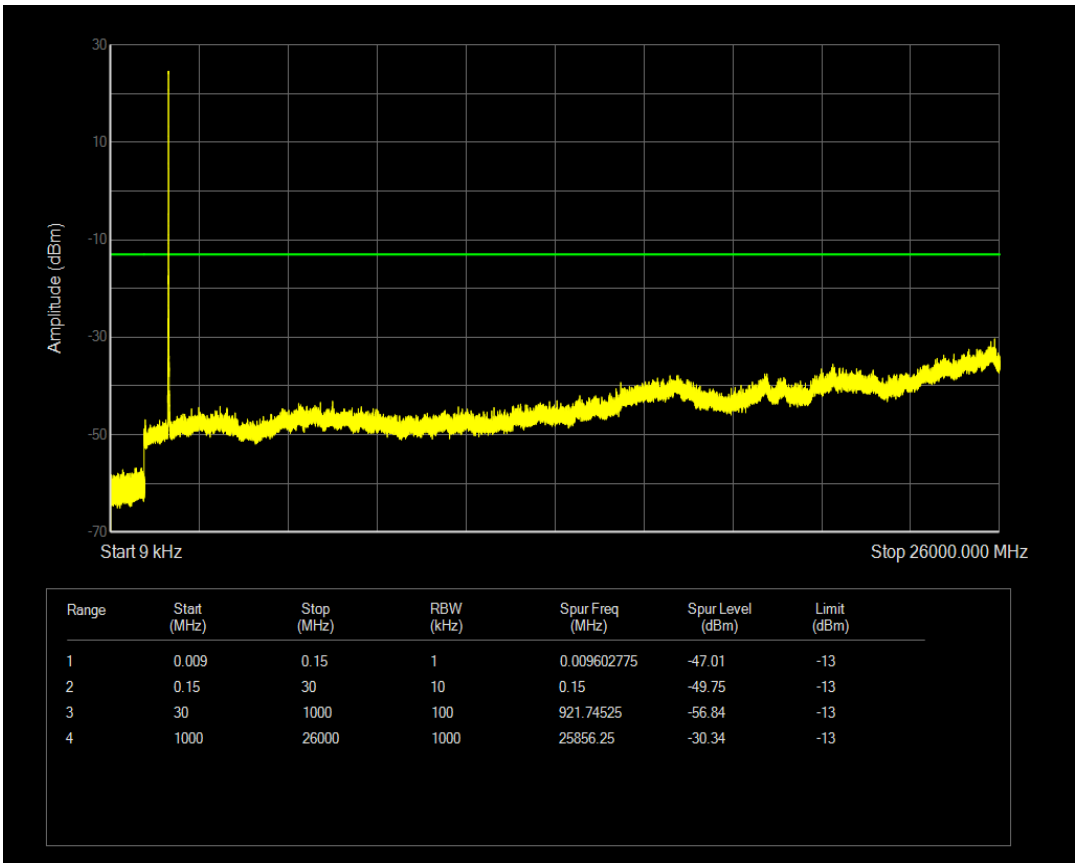
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00943005	-46.41	-13
2	0.15	30	10	0.158955	-50.4	-13
3	30	1000	100	475.73925	-56.43	-13
4	1000	26000	1000	25680.625	-32.74	-13

Band5 QAM16 BW=10MHz Channel=20600 RB Size=25 Position=#0



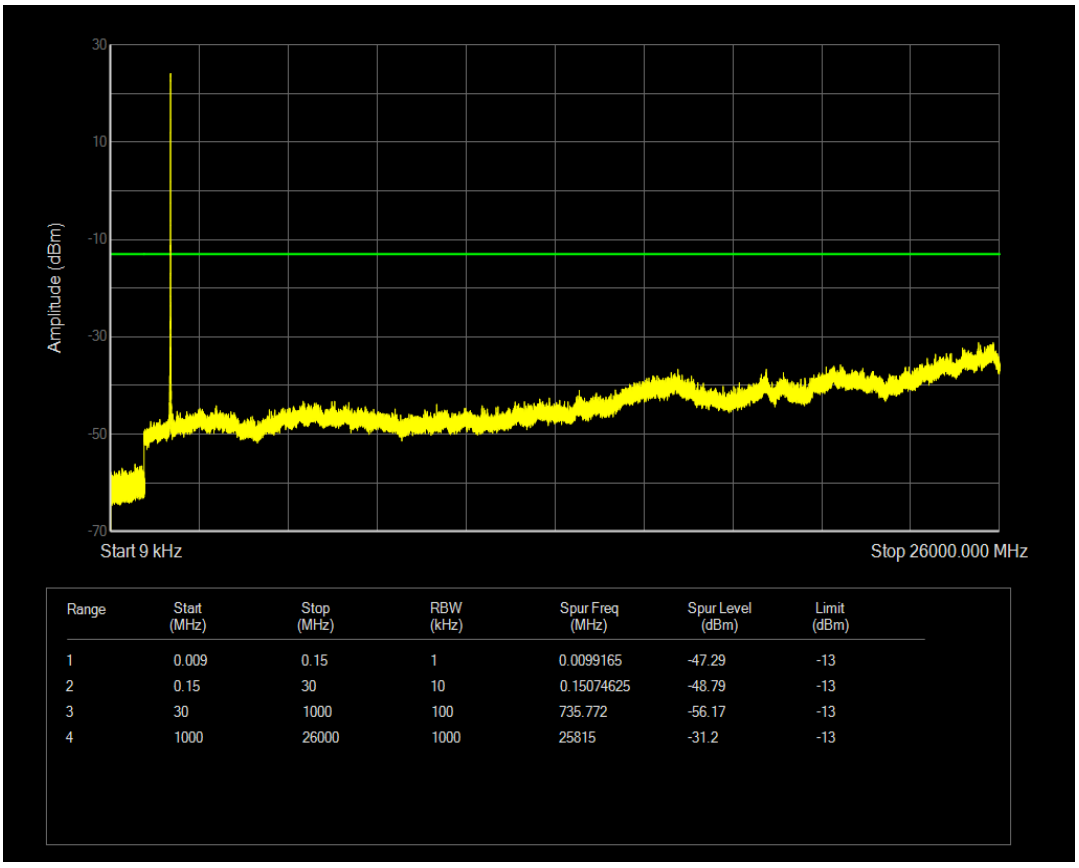
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-47.15	-13
2	0.15	30	10	0.15671625	-48.51	-13
3	30	1000	100	751.07375	-57.02	-13
4	1000	26000	1000	25792.5	-32.23	-13

Band66 QAM16 BW=10MHz Channel=132022 RB Size=25 Position=#0



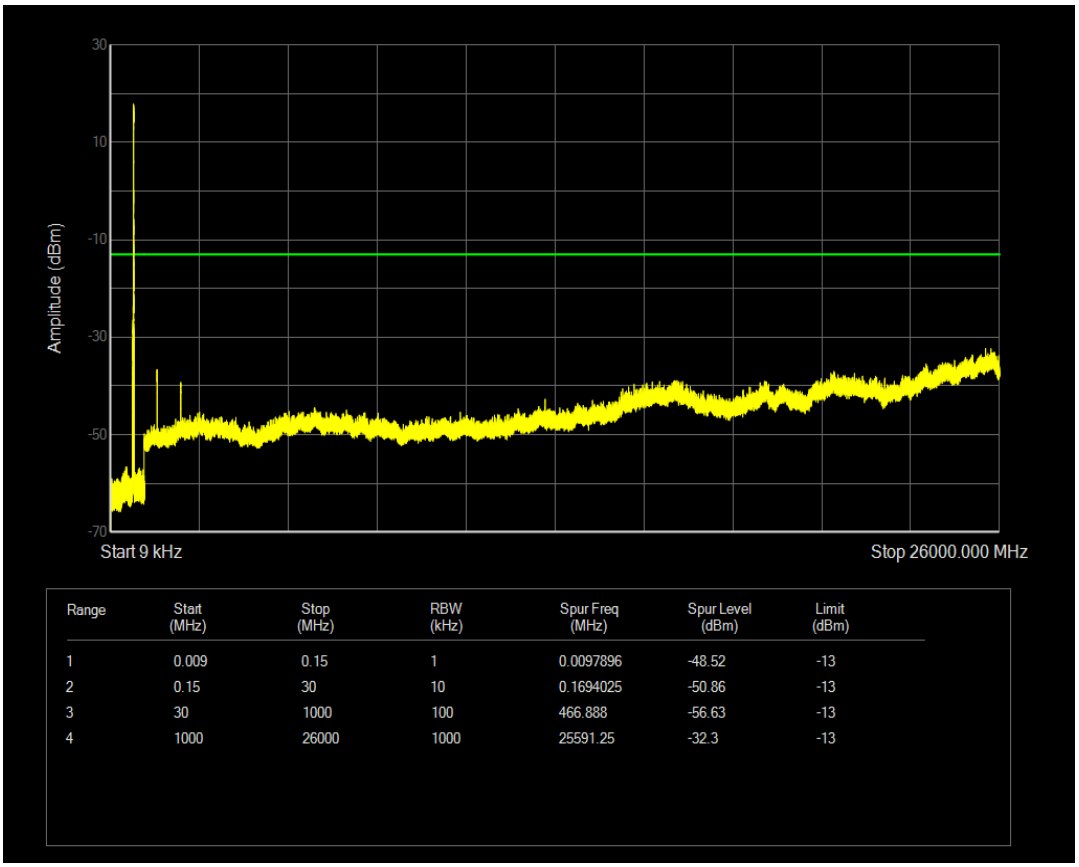
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009602775	-47.01	-13
2	0.15	30	10	0.15	-49.75	-13
3	30	1000	100	921.74525	-56.84	-13
4	1000	26000	1000	25856.25	-30.34	-13

Band66 QAM16 BW=10MHz Channel=132622 RB Size=25 Position=#0



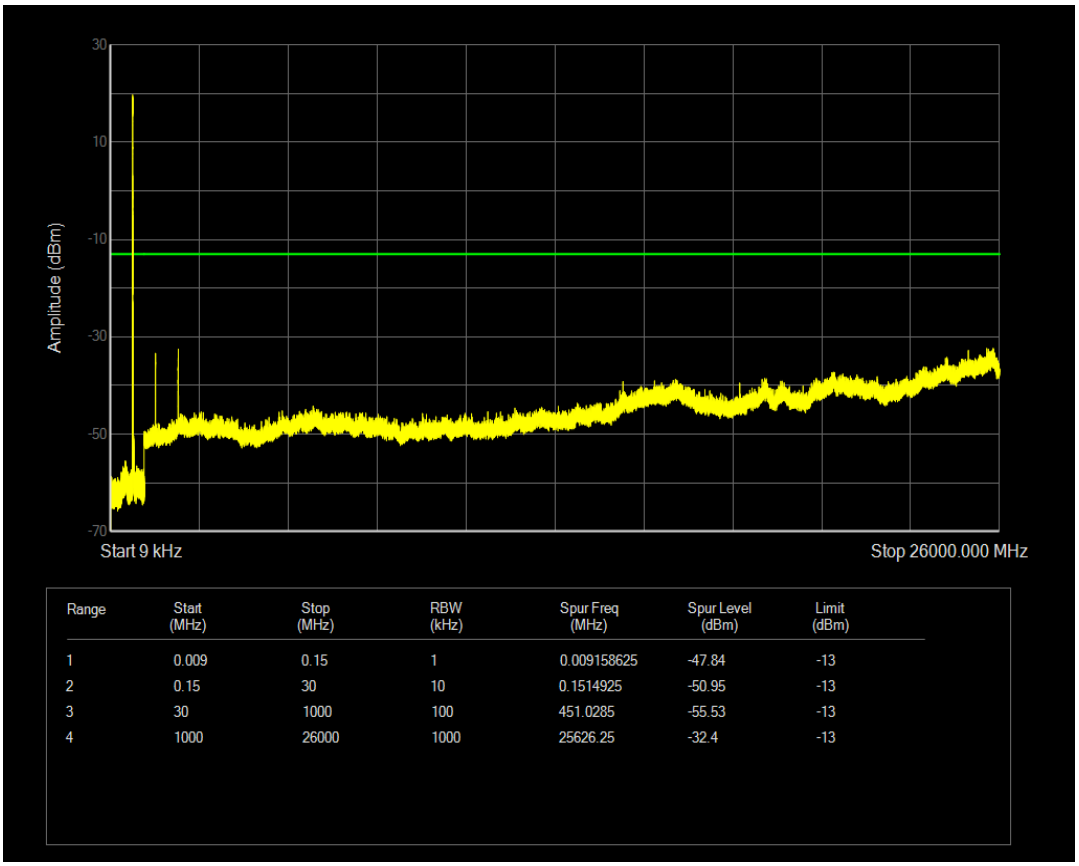
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0099165	-47.29	-13
2	0.15	30	10	0.15074625	-48.79	-13
3	30	1000	100	735.772	-56.17	-13
4	1000	26000	1000	25815	-31.2	-13

Band71 QAM16 BW=10MHz Channel=133422 RB Size=25 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0097896	-48.52	-13
2	0.15	30	10	0.1694025	-50.86	-13
3	30	1000	100	466.888	-56.63	-13
4	1000	26000	1000	25591.25	-32.3	-13

Band71 QAM16 BW=10MHz Channel=133172 RB Size=25 Position=#0

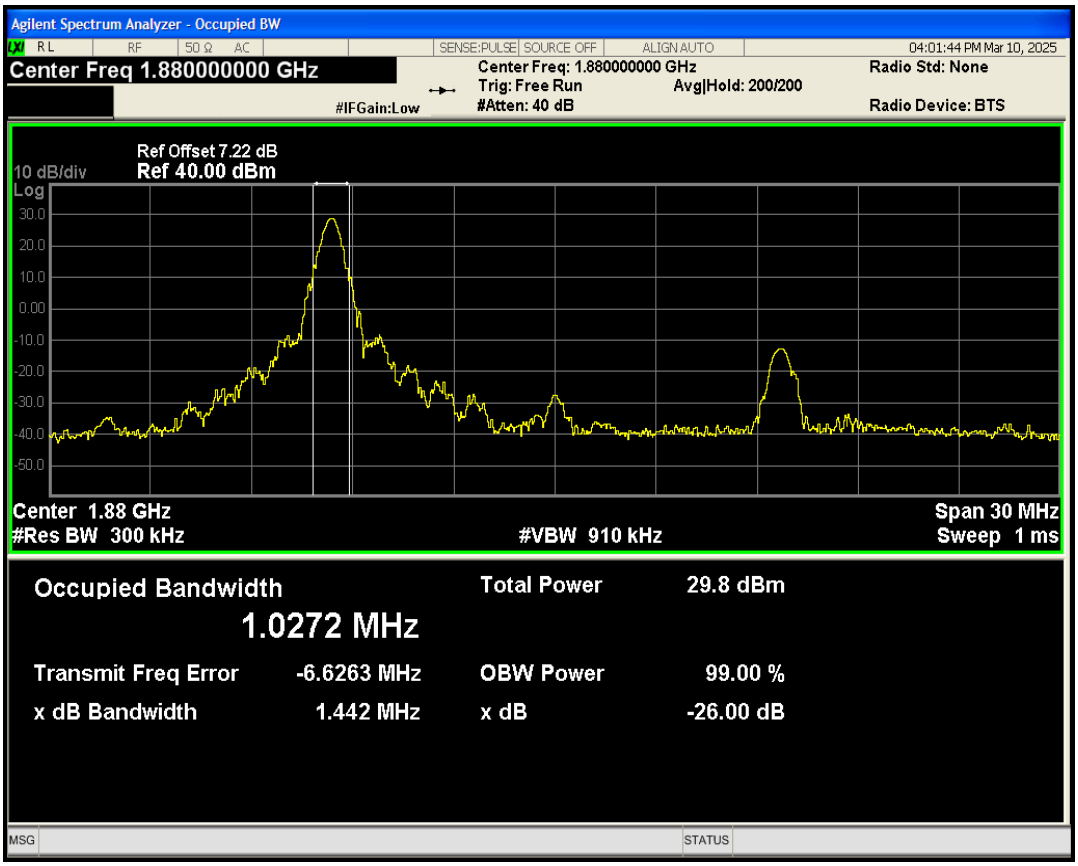


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009158625	-47.84	-13
2	0.15	30	10	0.1514925	-50.95	-13
3	30	1000	100	451.0285	-55.53	-13
4	1000	26000	1000	25626.25	-32.4	-13

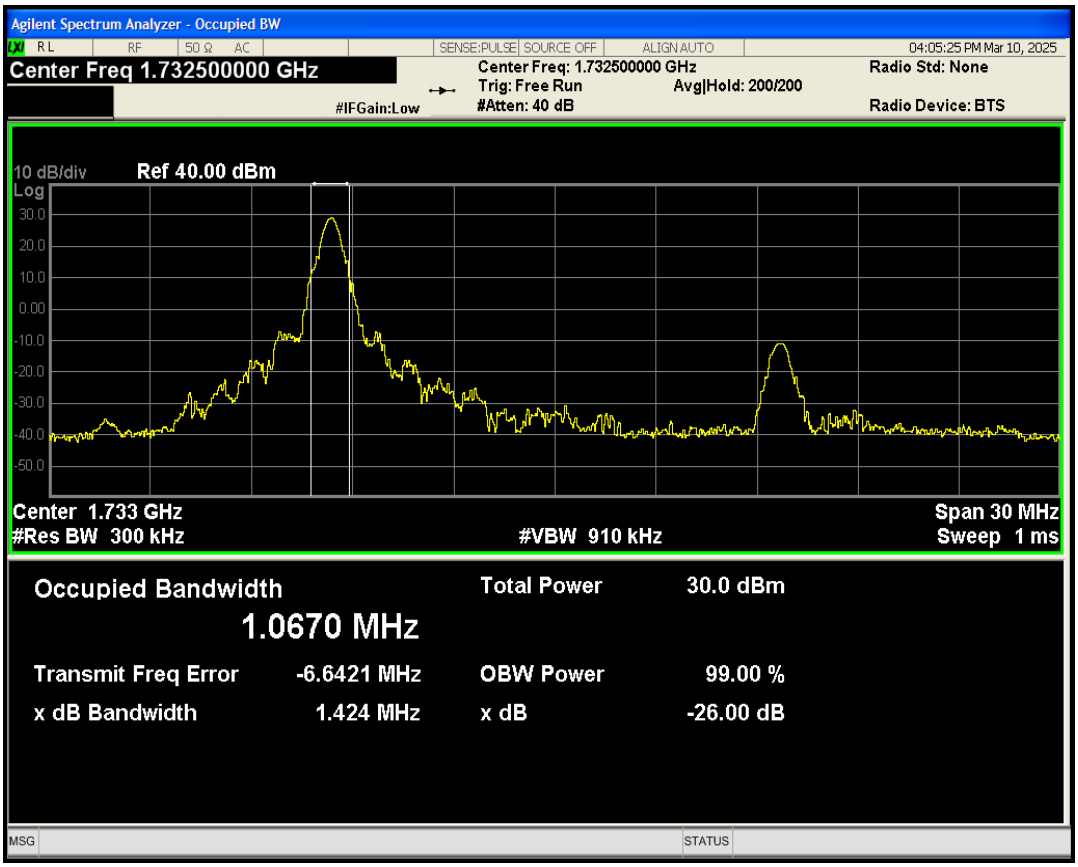
4 Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band2	15	18900	1	#0	QAM16	1.027	1.442	PASS
Band4	15	20175	1	#0	QAM16	1.067	1.424	PASS
Band66	15	132322	1	#0	QAM16	1.010	1.381	PASS
Band71	15	133297	1	#0	QAM16	1.093	1.416	PASS

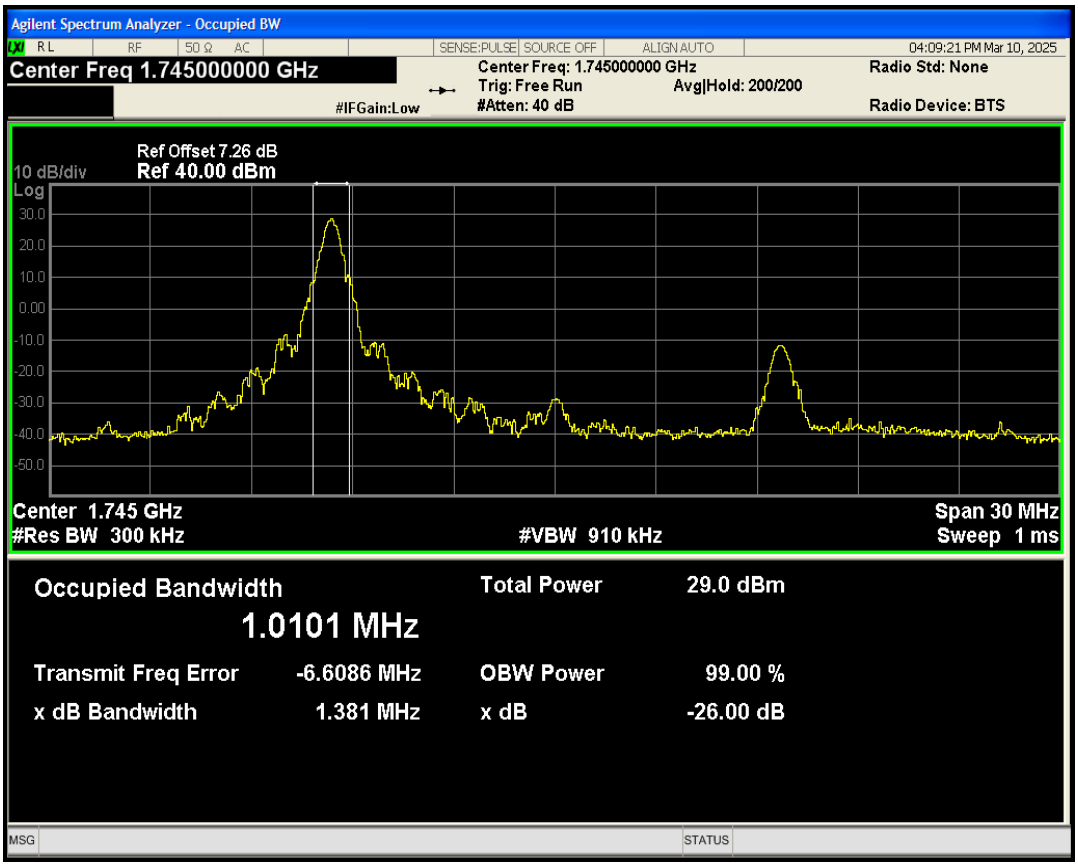
Band2 QAM16 BW=15MHz Channel=18900 RB Size=1 Position=#0



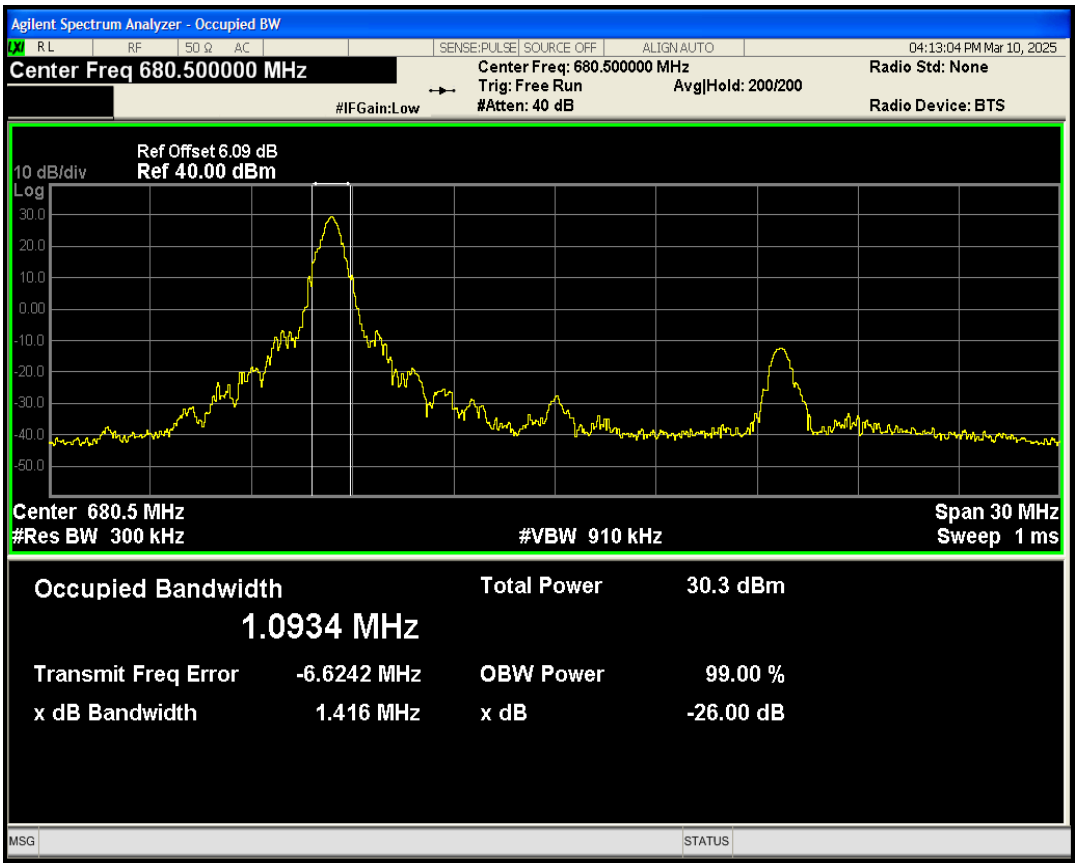
Band4 QAM16 BW=15MHz Channel=20175 RB Size=1 Position=#0



Band66 QAM16 BW=15MHz Channel=132322 RB Size=1 Position=#0



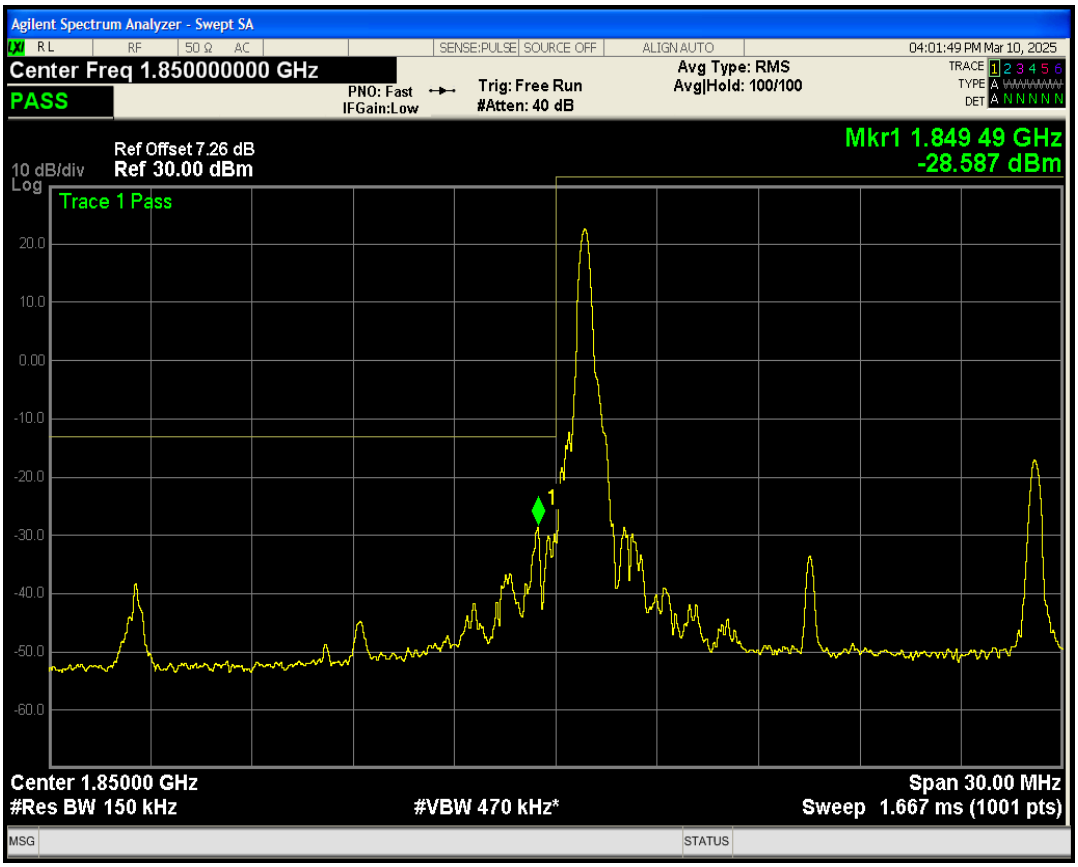
Band71 QAM16 BW=15MHz Channel=133297 RB Size=1 Position=#0



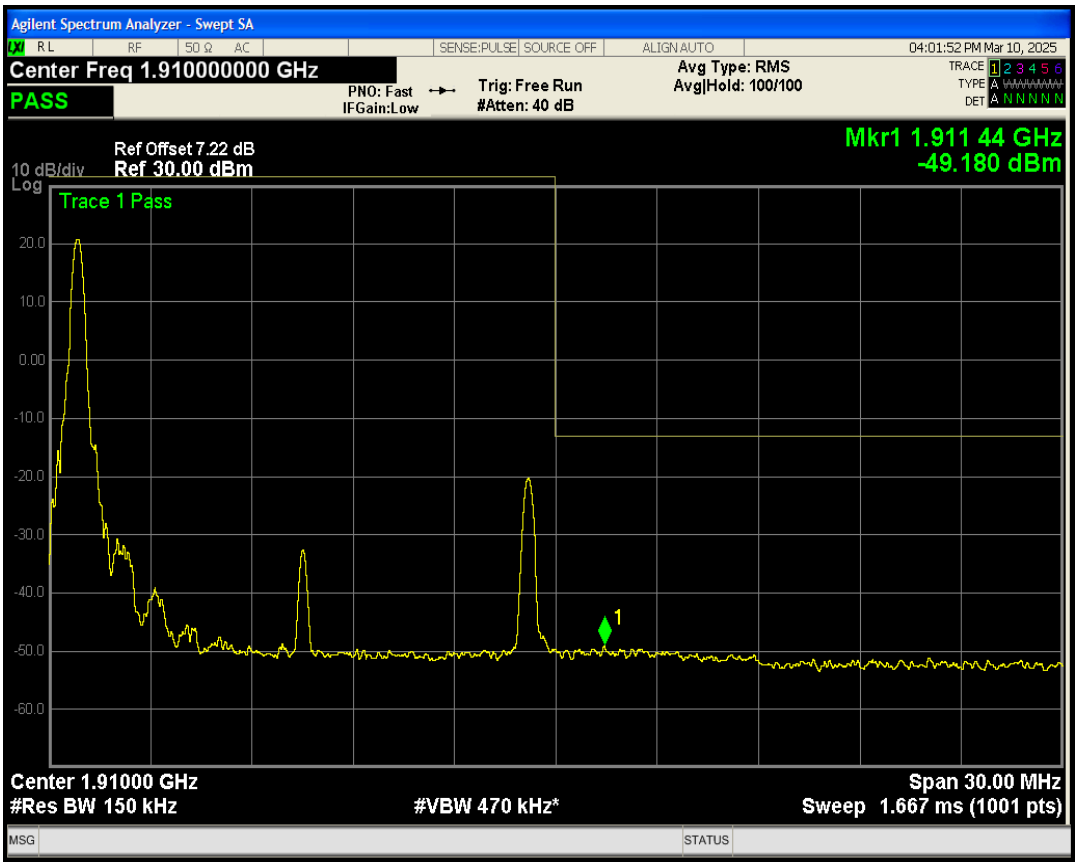
5 Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band2	15	18675	1	#0	QAM16	1849.49	-28.58	-13	PASS
Band2	15	19125	1	#0	QAM16	1911.44	-49.18	-13	PASS
Band4	15	20025	1	#0	QAM16	1709.46	-29.51	-13	PASS
Band4	15	20325	1	#0	QAM16	1767.54	-47.10	-13	PASS
Band66	15	132047	1	#0	QAM16	1710.00	-29.02	-13	PASS
Band66	15	132597	1	#0	QAM16	1781.26	-48.14	-13	PASS
Band71	15	133197	1	#0	QAM16	663.00	-31.62	-13	PASS
Band71	15	133397	1	#0	QAM16	699.20	-55.33	-13	PASS

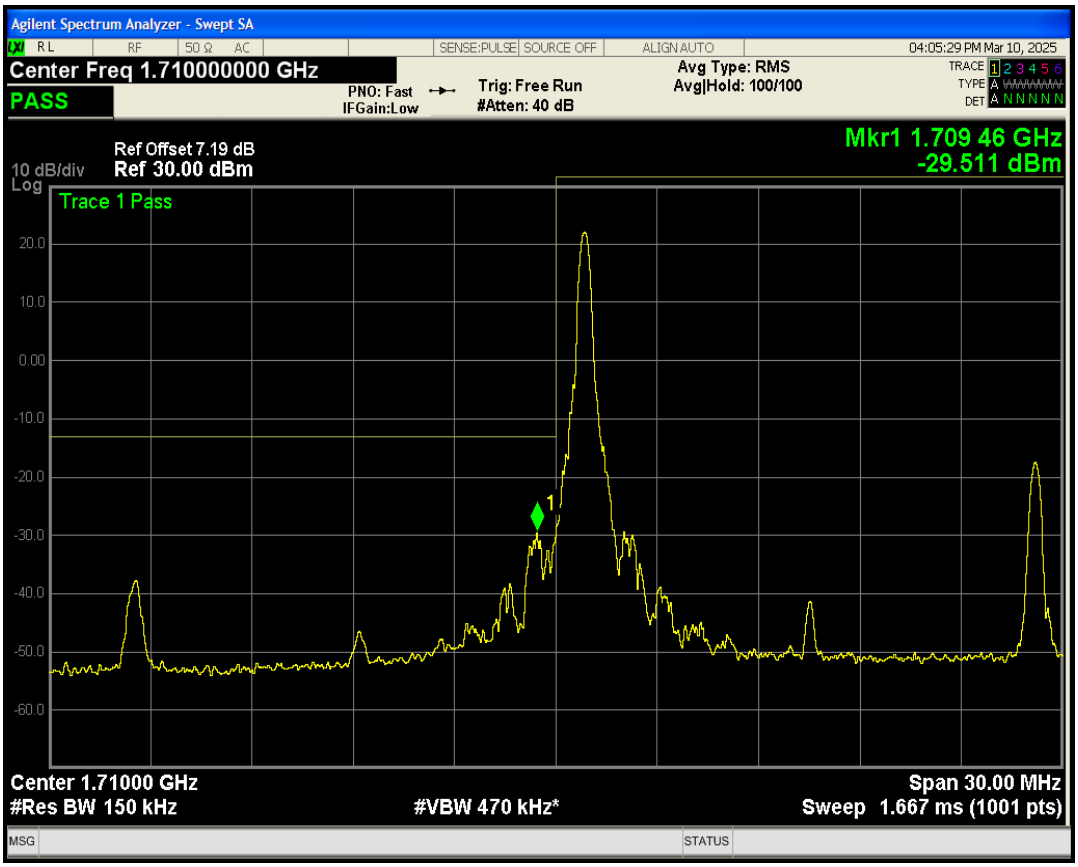
Band2 QAM16 BW=15MHz Channel=18675 RB Size=1 Position=#0



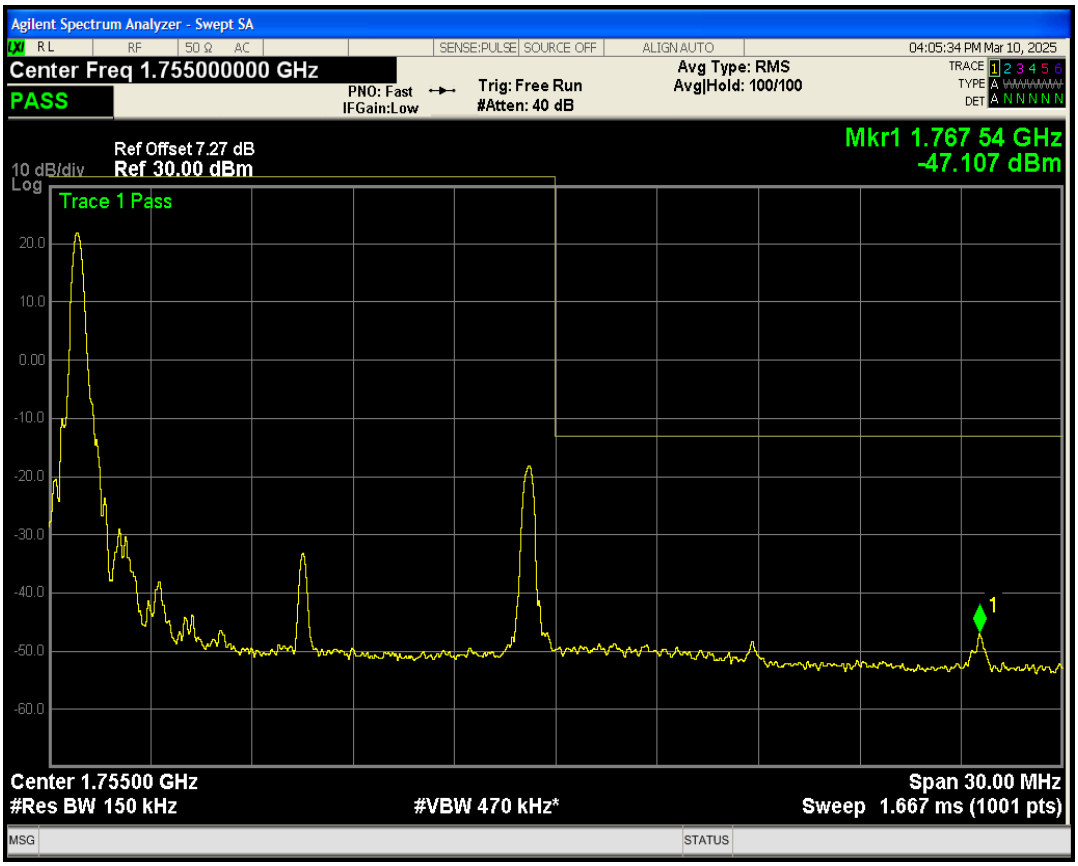
Band2 QAM16 BW=15MHz Channel=19125 RB Size=1 Position=#0



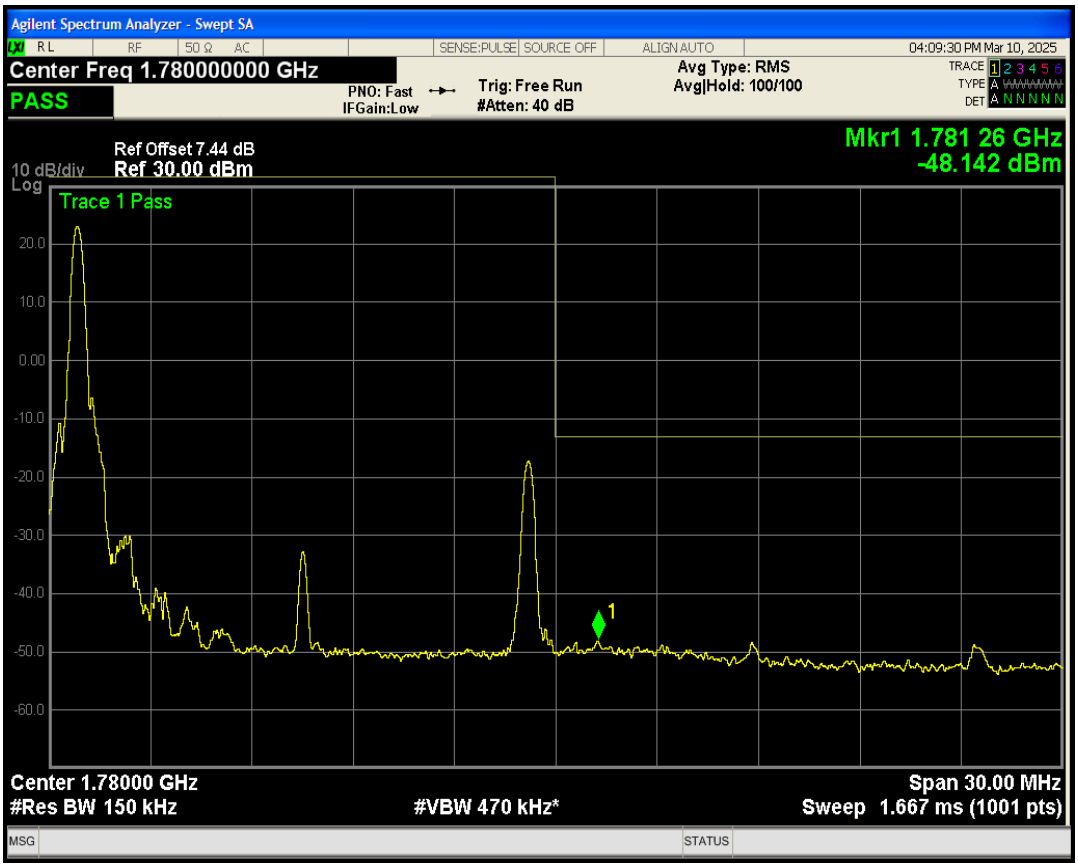
Band4 QAM16 BW=15MHz Channel=20025 RB Size=1 Position=#0



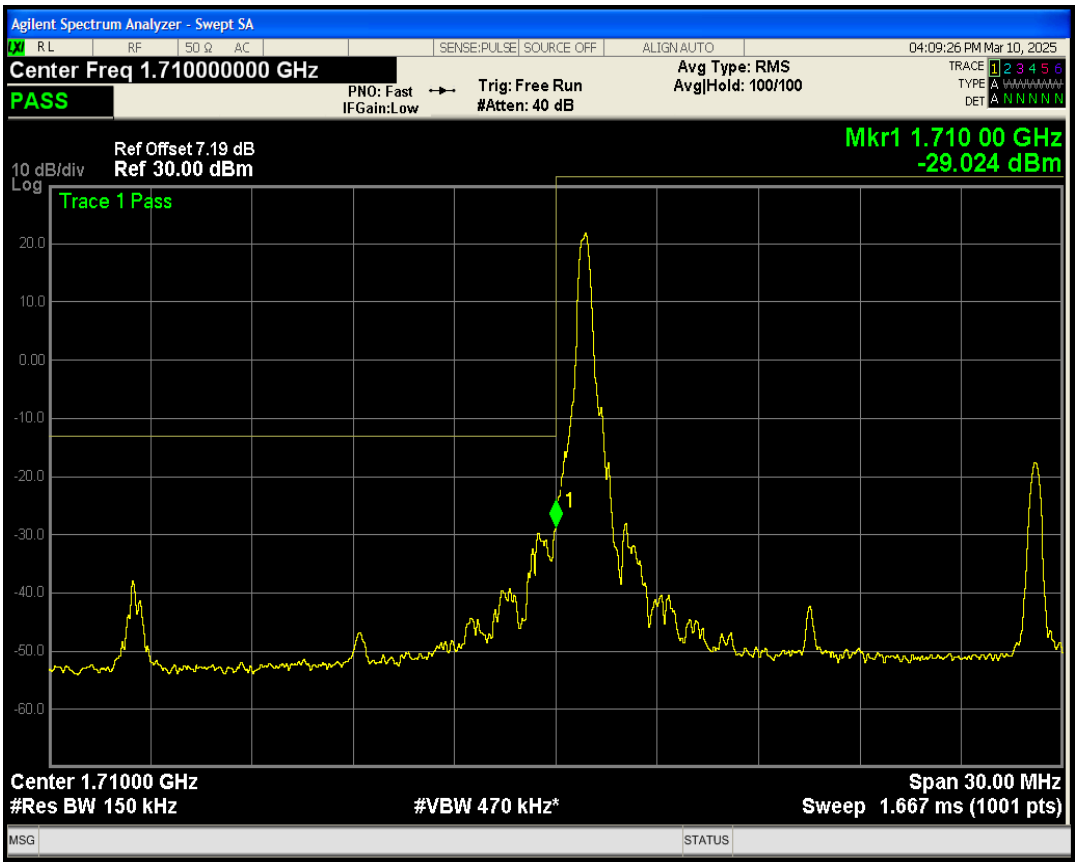
Band4 QAM16 BW=15MHz Channel=20325 RB Size=1 Position=#0



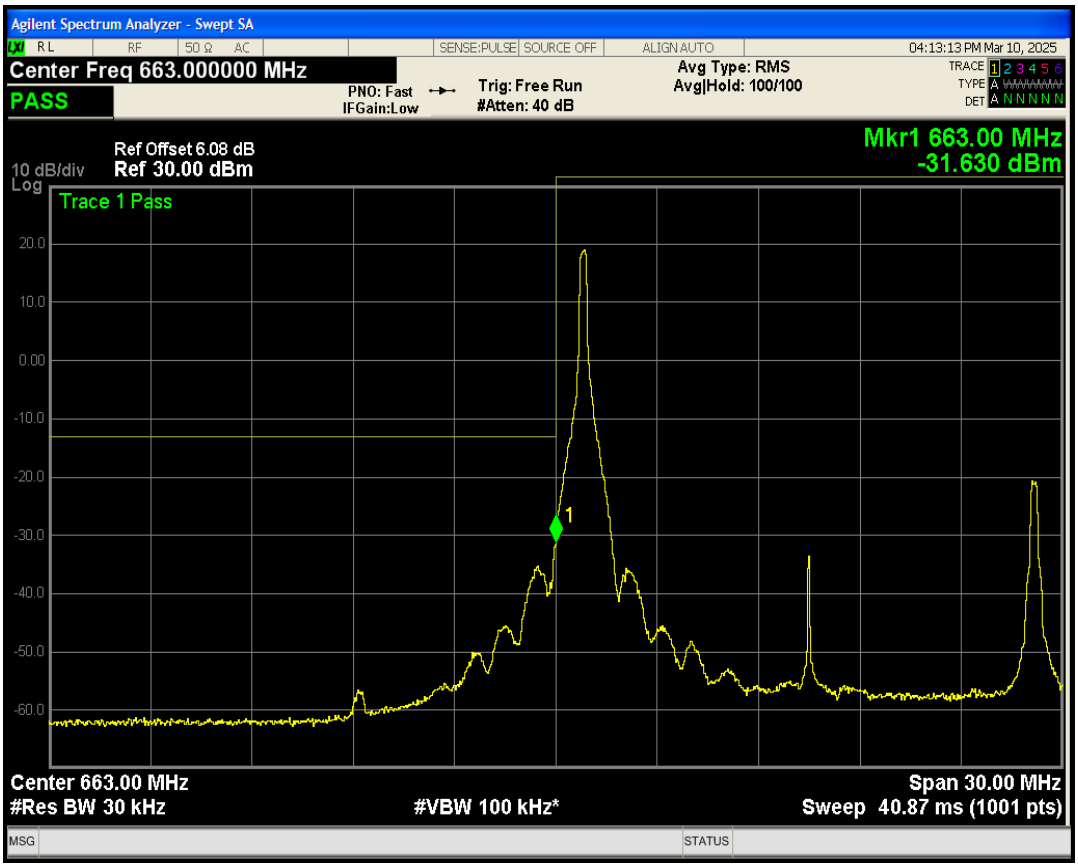
Band66 QAM16 BW=15MHz Channel=132597 RB Size=1 Position=#0



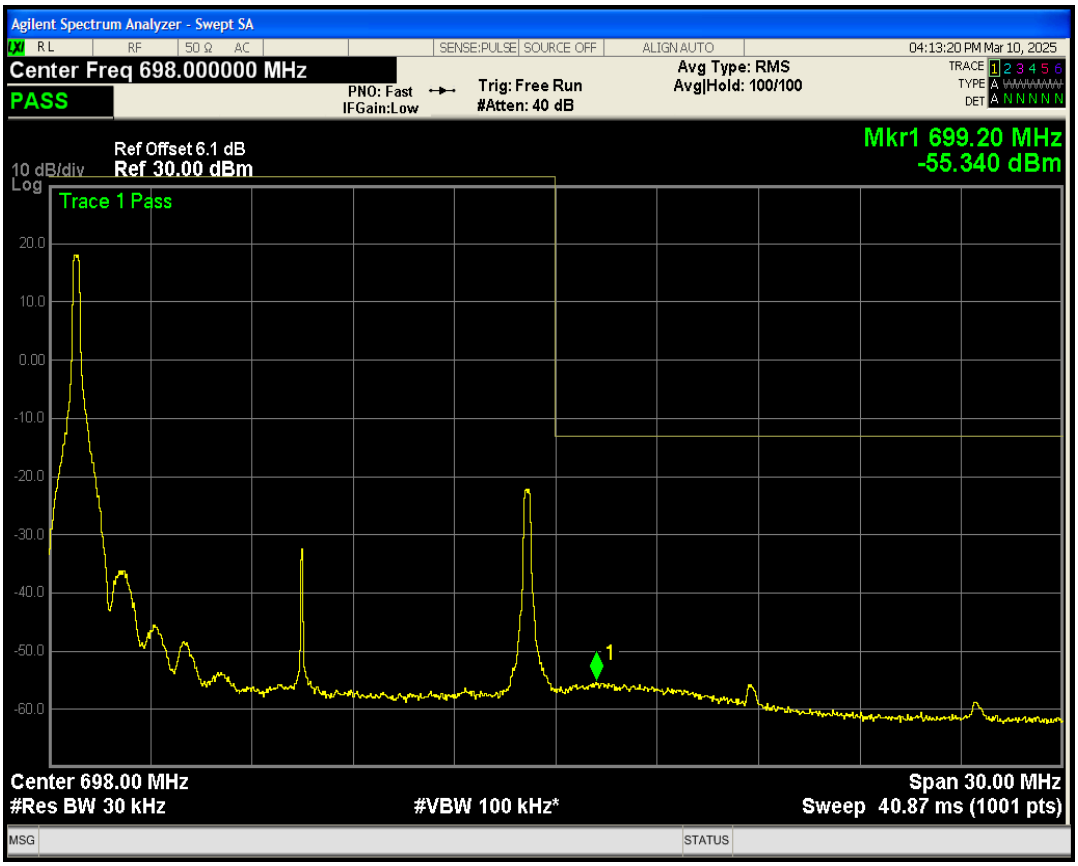
Band66 QAM16 BW=15MHz Channel=132047 RB Size=1 Position=#0



Band71 QAM16 BW=15MHz Channel=133197 RB Size=1 Position=#0



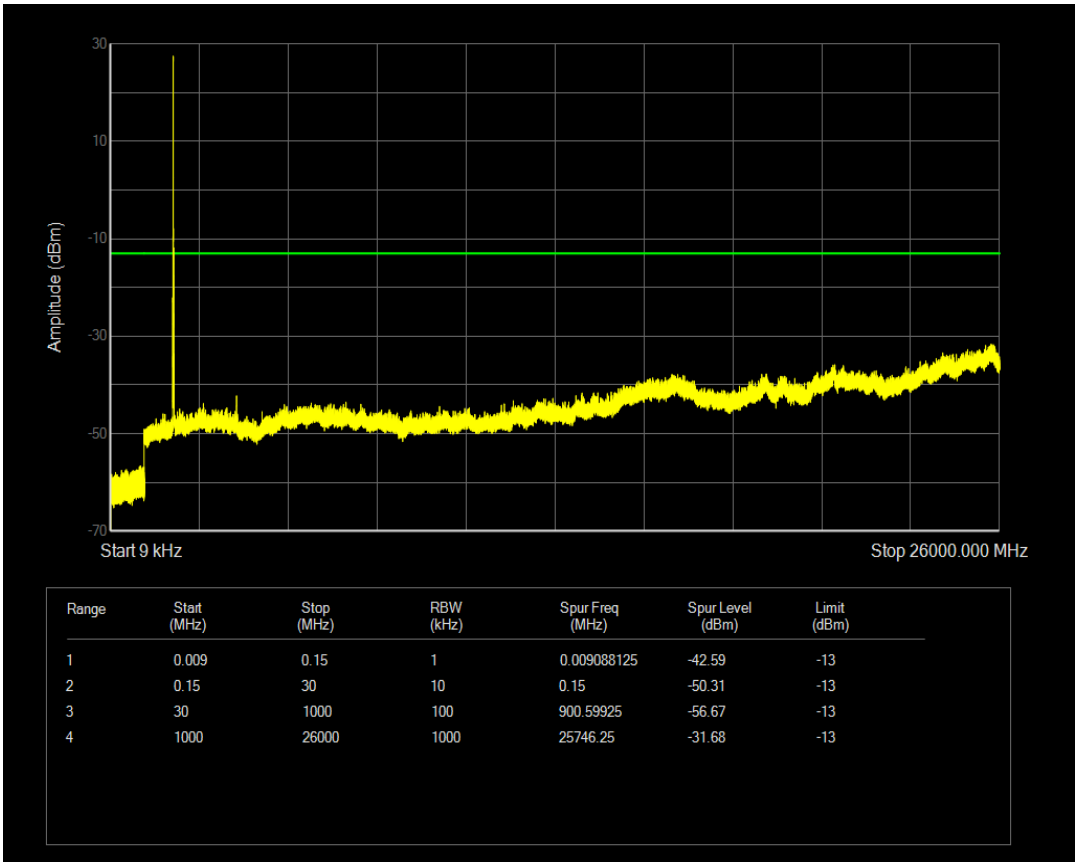
Band71 QAM16 BW=15MHz Channel=133397 RB Size=1 Position=#0



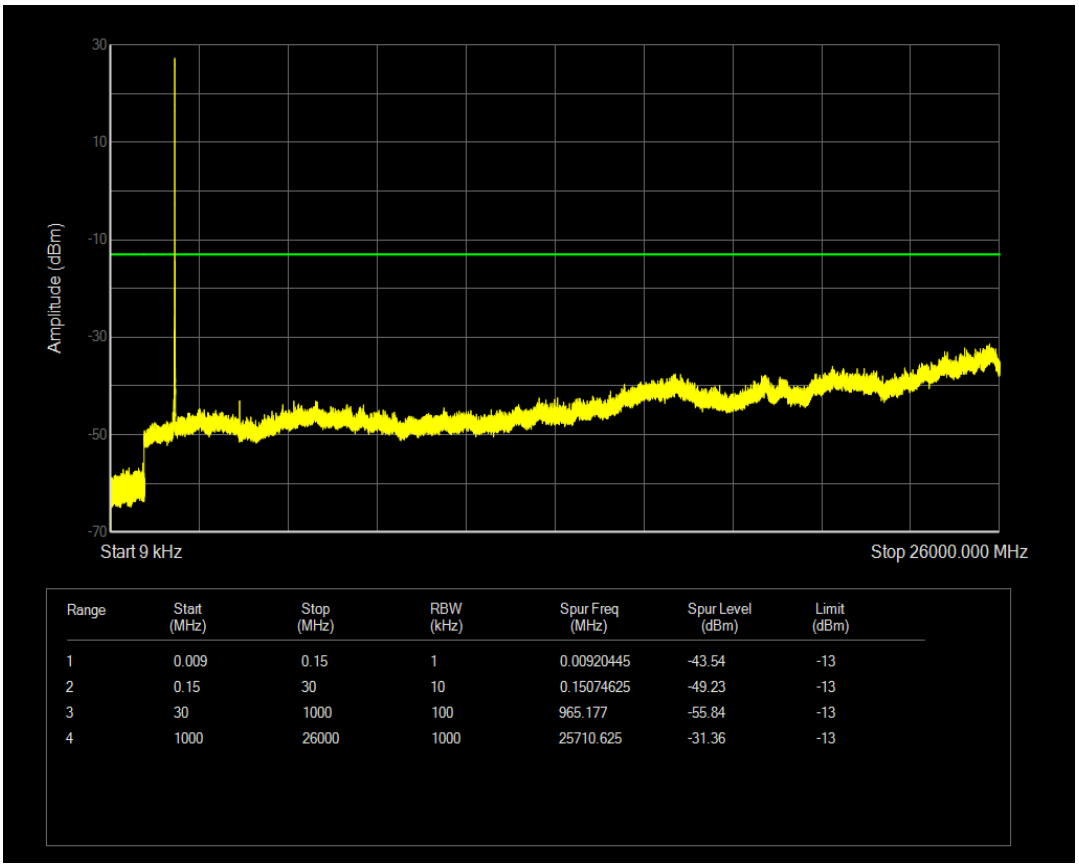
6 Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band2	15	18675	1	#0	QAM16	25746.25	-31.68	-13	PASS
Band2	15	19125	1	#0	QAM16	25710.63	-31.36	-13	PASS
Band4	15	20025	1	#0	QAM16	25757.50	-31.52	-13	PASS
Band4	15	20325	1	#0	QAM16	25739.38	-30.21	-13	PASS
Band66	15	132047	1	#0	QAM16	25766.25	-31.22	-13	PASS
Band66	15	132597	1	#0	QAM16	25786.88	-30.55	-13	PASS
Band71	15	133197	1	#0	QAM16	1991.88	-28.59	-13	PASS
Band71	15	133397	1	#0	QAM16	2051.88	-28.85	-13	PASS

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

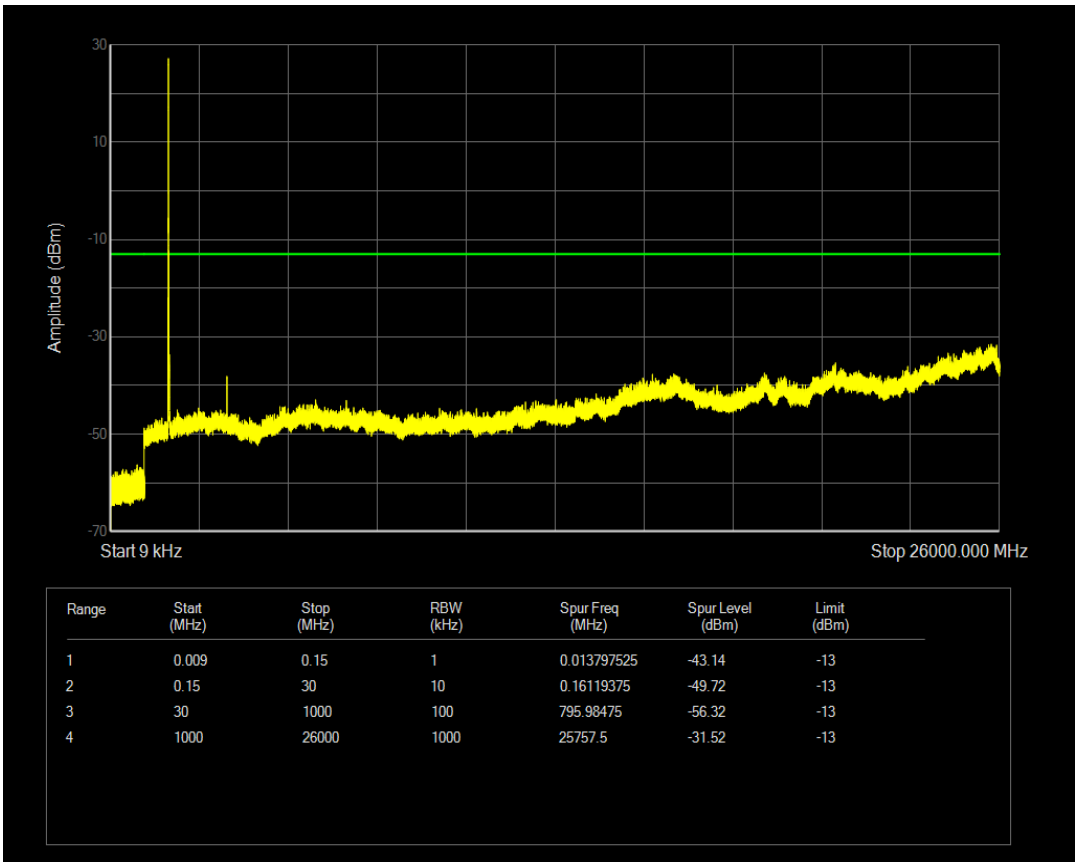


Band2 QAM16 BW=15MHz Channel=19125 RB Size=1 Position=#0



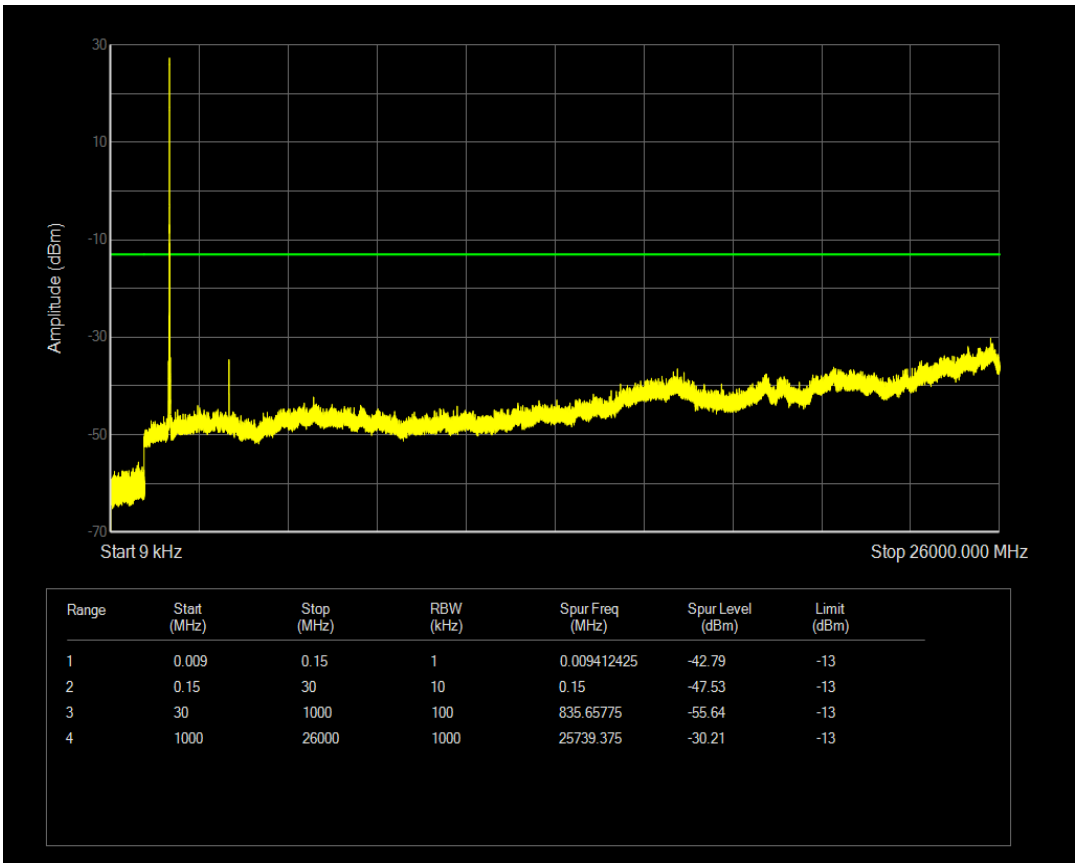
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00920445	-43.54	-13
2	0.15	30	10	0.15074625	-49.23	-13
3	30	1000	100	965.177	-55.84	-13
4	1000	26000	1000	25710.625	-31.36	-13

Band4 QAM16 BW=15MHz Channel=20025 RB Size=1 Position=#0



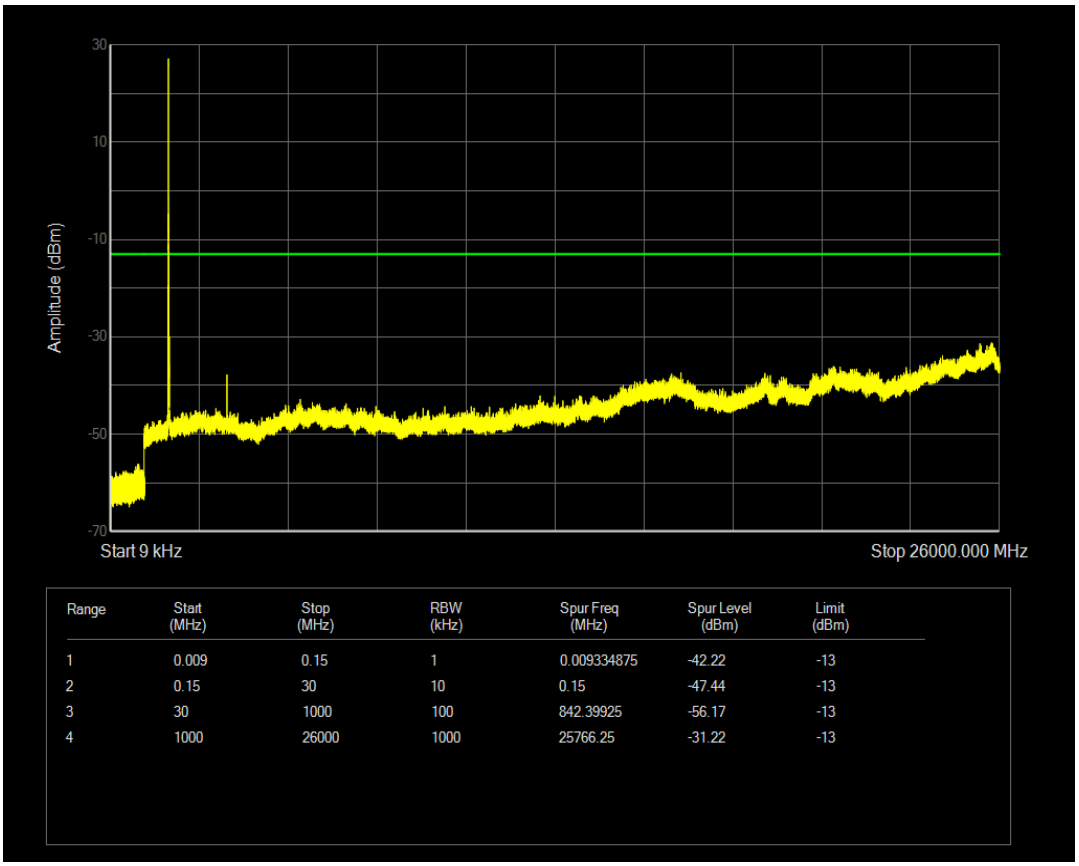
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013797525	-43.14	-13
2	0.15	30	10	0.16119375	-49.72	-13
3	30	1000	100	795.98475	-56.32	-13
4	1000	26000	1000	25757.5	-31.52	-13

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



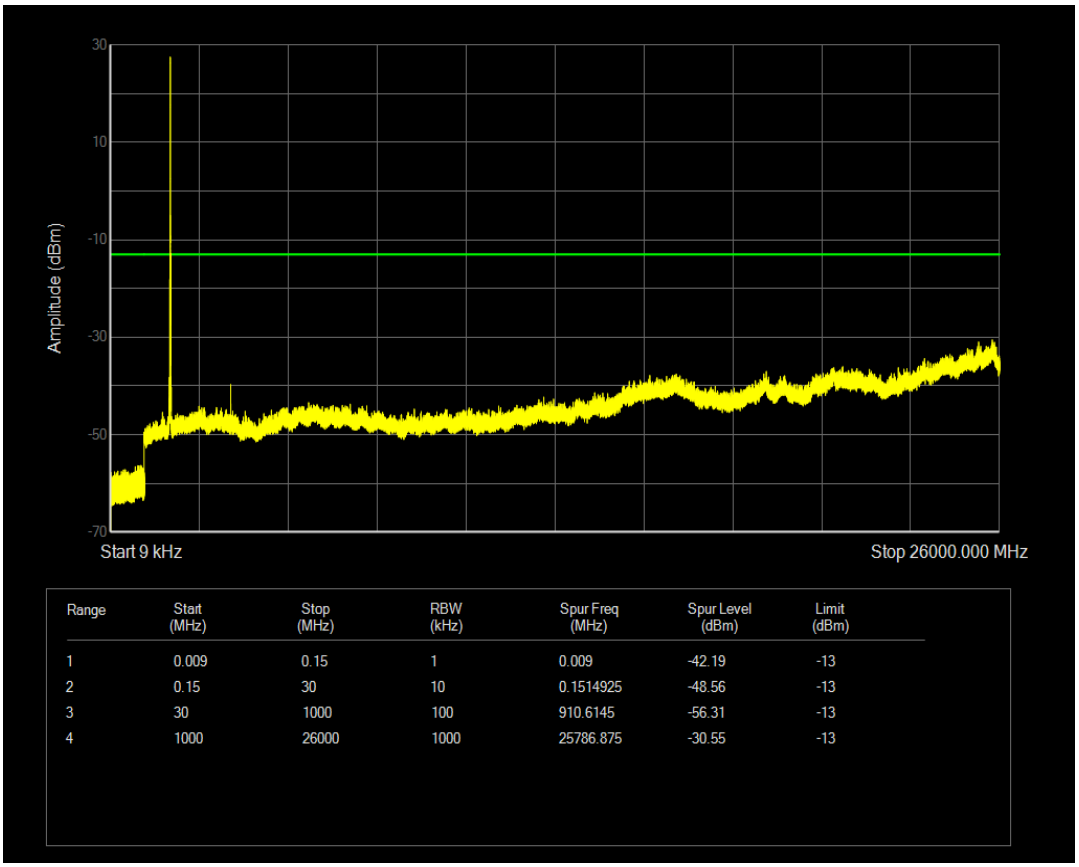
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009412425	-42.79	-13
2	0.15	30	10	0.15	-47.53	-13
3	30	1000	100	835.65775	-55.64	-13
4	1000	26000	1000	25739.375	-30.21	-13

Band66 QAM16 BW=15MHz Channel=132047 RB Size=1 Position=#0



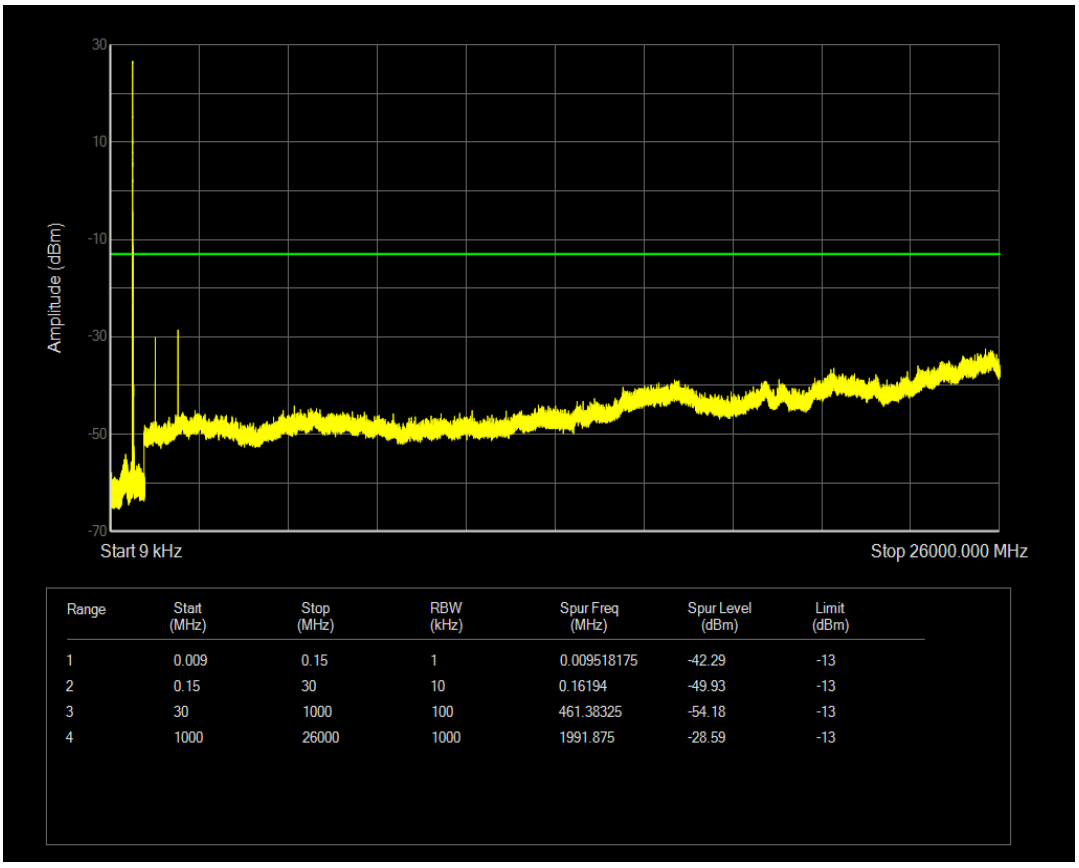
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009334875	-42.22	-13
2	0.15	30	10	0.15	-47.44	-13
3	30	1000	100	842.39925	-56.17	-13
4	1000	26000	1000	25766.25	-31.22	-13

Band66 QAM16 BW=15MHz Channel=132597 RB Size=1 Position=#0



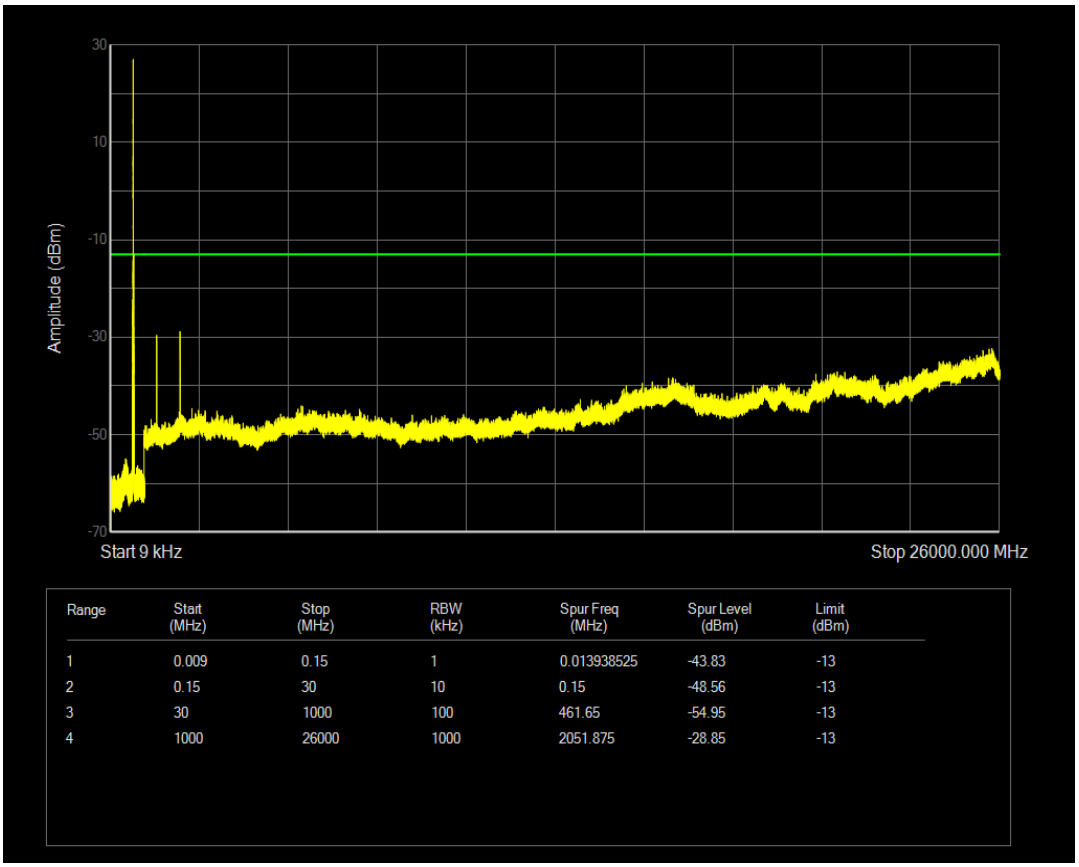
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-42.19	-13
2	0.15	30	10	0.1514925	-48.56	-13
3	30	1000	100	910.6145	-56.31	-13
4	1000	26000	1000	25786.875	-30.55	-13

Band71 QAM16 BW=15MHz Channel=133197 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009518175	-42.29	-13
2	0.15	30	10	0.16194	-49.93	-13
3	30	1000	100	461.38325	-54.18	-13
4	1000	26000	1000	1991.875	-28.59	-13

Band71 QAM16 BW=15MHz Channel=133397 RB Size=1 Position=#0

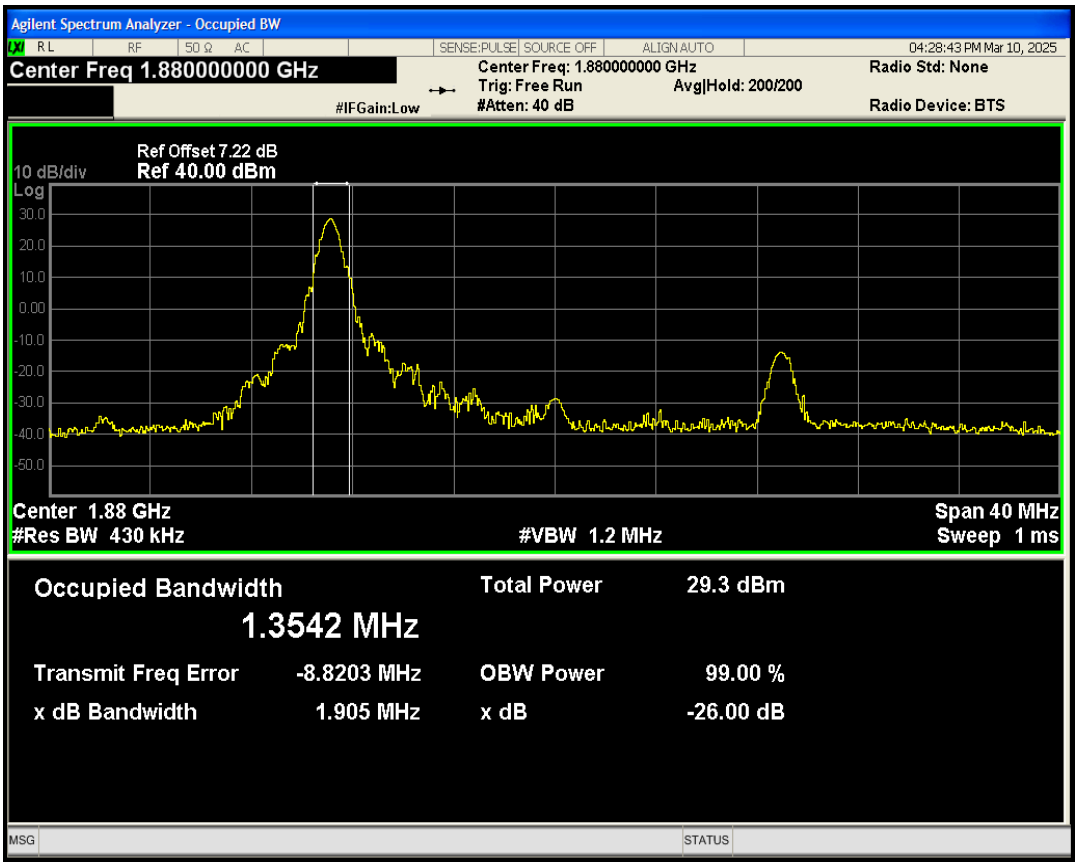


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.013938525	-43.83	-13
2	0.15	30	10	0.15	-48.56	-13
3	30	1000	100	461.65	-54.95	-13
4	1000	26000	1000	2051.875	-28.85	-13

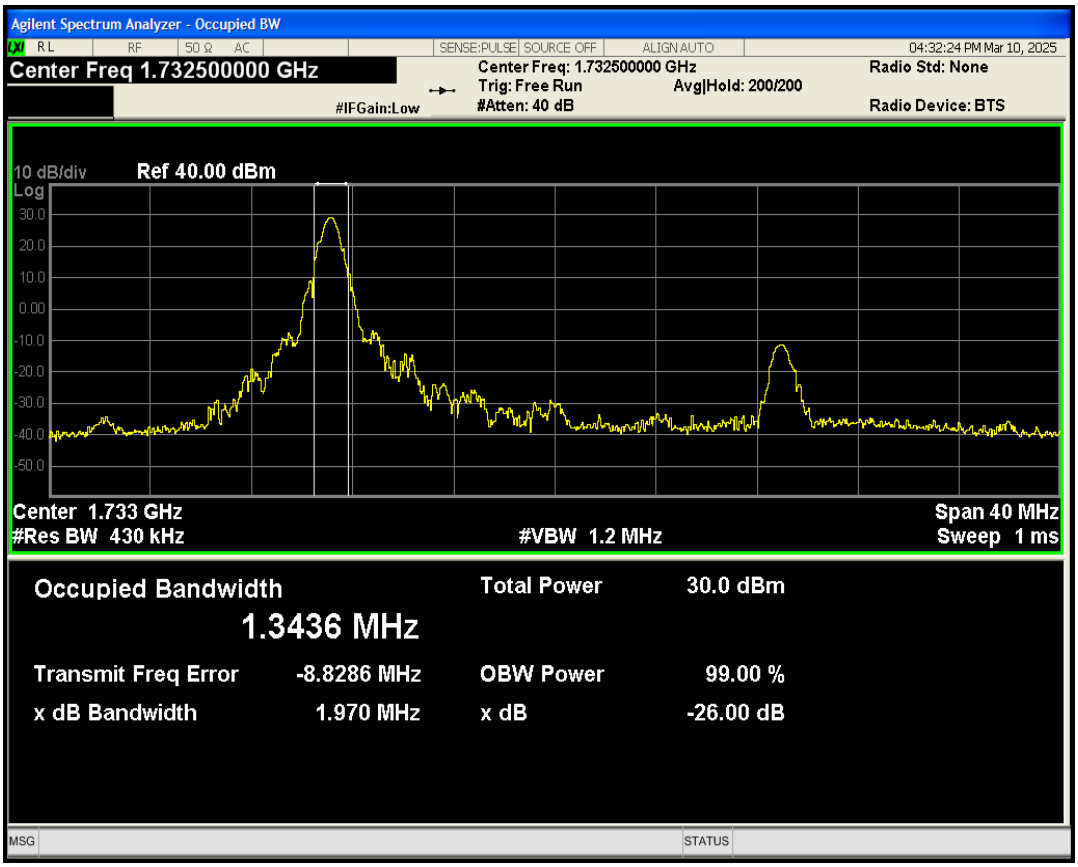
4 Occupied bandwidth

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
Band2	20	18900	1	#0	QAM16	1.354	1.905	PASS
Band4	20	20175	1	#0	QAM16	1.344	1.970	PASS
Band66	20	132322	1	#0	QAM16	1.239	1.763	PASS
Band71	20	133322	1	#0	QAM16	1.554	2.175	PASS

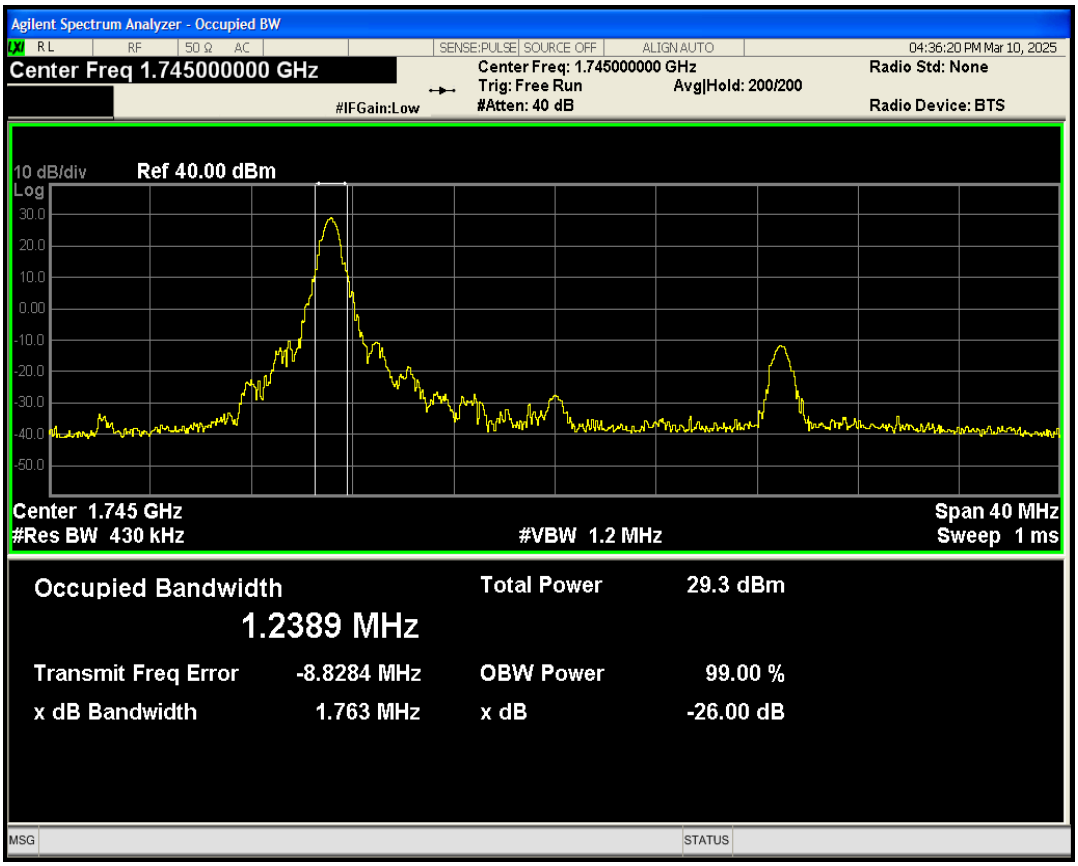
Band2 QAM16 BW=20MHz Channel=18900 RB Size=1 Position=#0



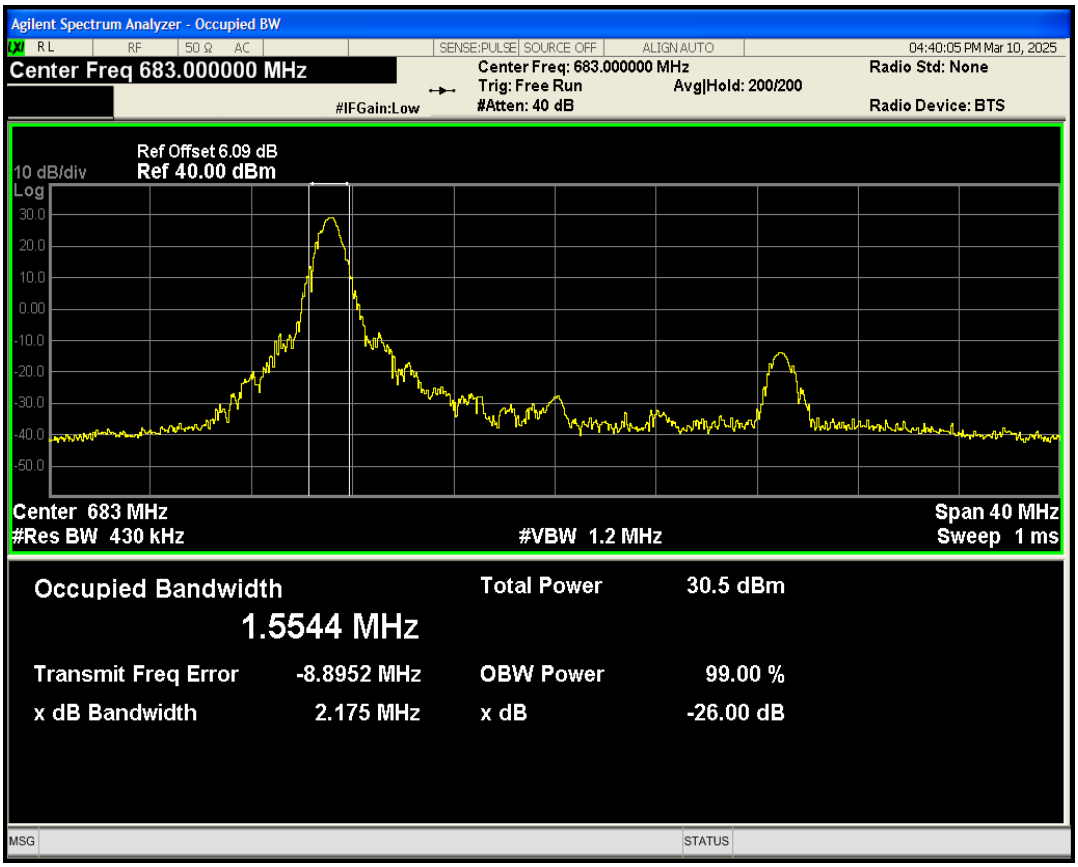
Band4 QAM16 BW=20MHz Channel=20175 RB Size=1 Position=#0



Band66 QAM16 BW=20MHz Channel=132322 RB Size=1 Position=#0



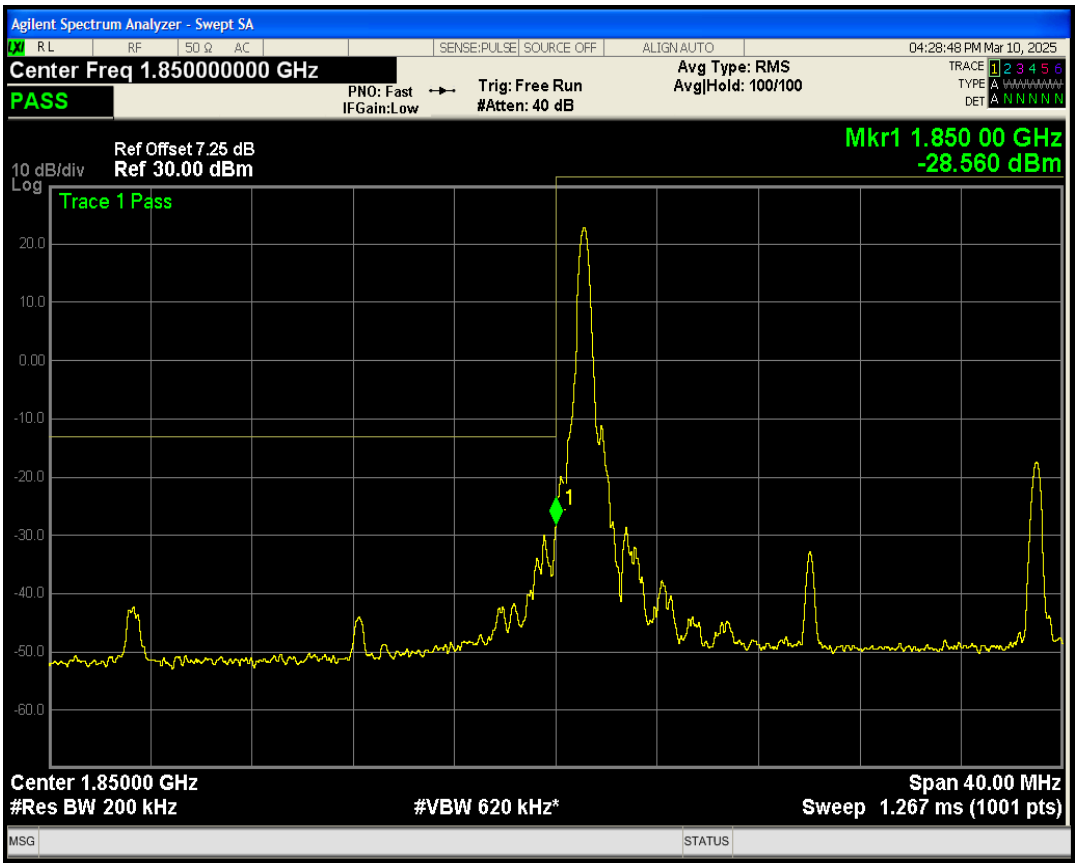
Band71 QAM16 BW=20MHz Channel=133322 RB Size=1 Position=#0



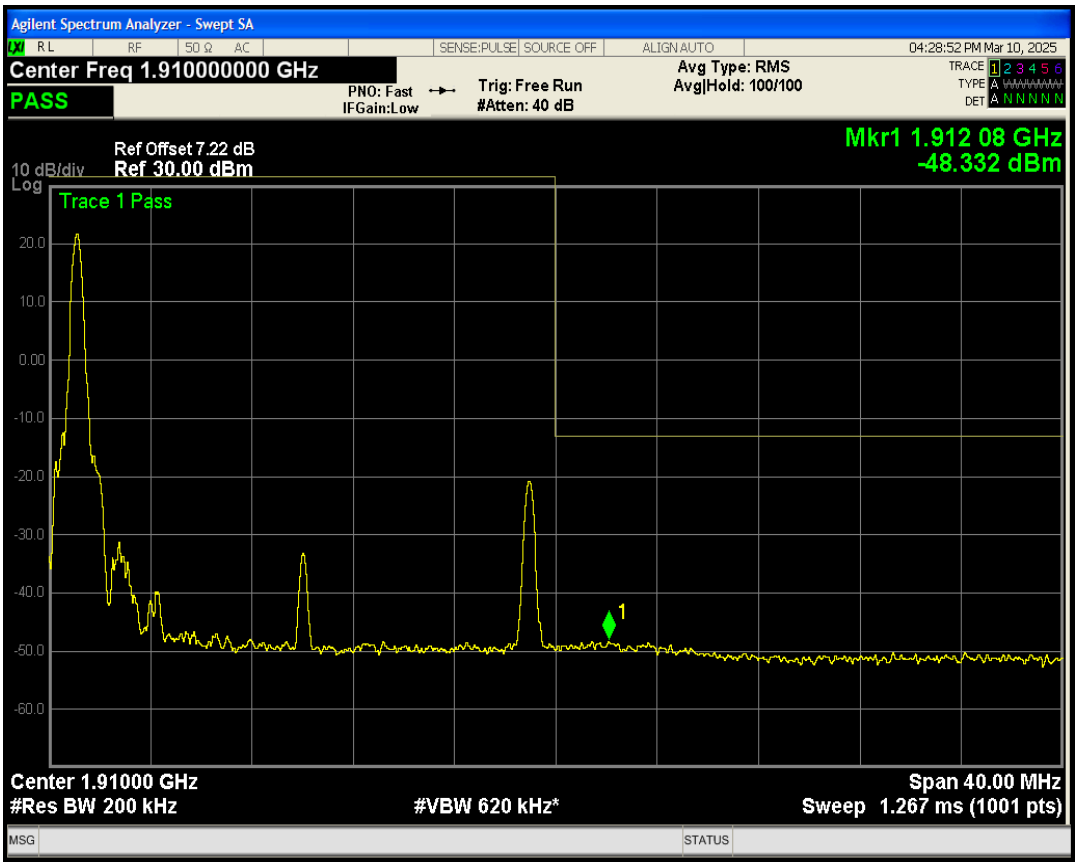
5 Band edge

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band2	20	18700	1	#0	QAM16	1850.00	-28.56	-13	PASS
Band2	20	19100	1	#0	QAM16	1912.08	-48.33	-13	PASS
Band4	20	20050	1	#0	QAM16	1710.00	-27.78	-13	PASS
Band4	20	20300	1	#0	QAM16	1756.32	-47.65	-13	PASS
Band66	20	132072	1	#0	QAM16	1709.36	-31.16	-13	PASS
Band66	20	132572	1	#0	QAM16	1787.80	-47.61	-13	PASS
Band71	20	133222	1	#0	QAM16	663.00	-36.34	-13	PASS
Band71	20	133372	1	#0	QAM16	705.80	-55.79	-13	PASS

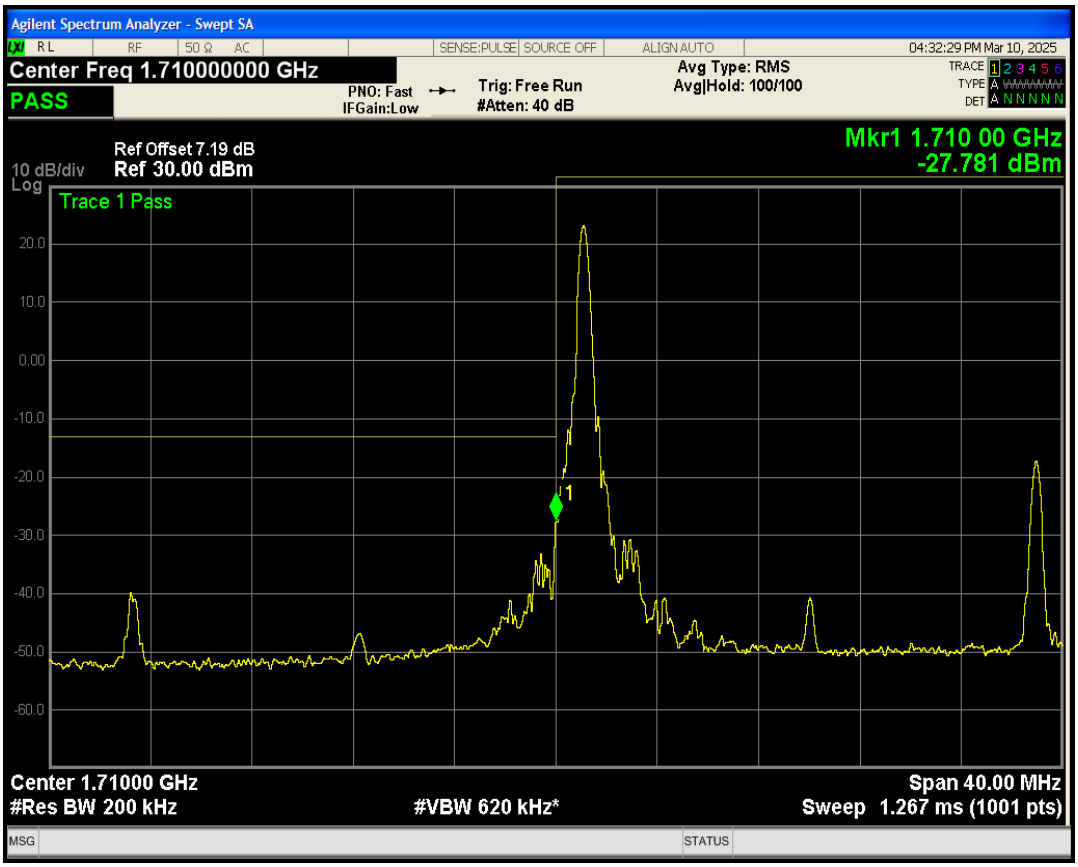
Band2 QAM16 BW=20MHz Channel=18700 RB Size=1 Position=#0



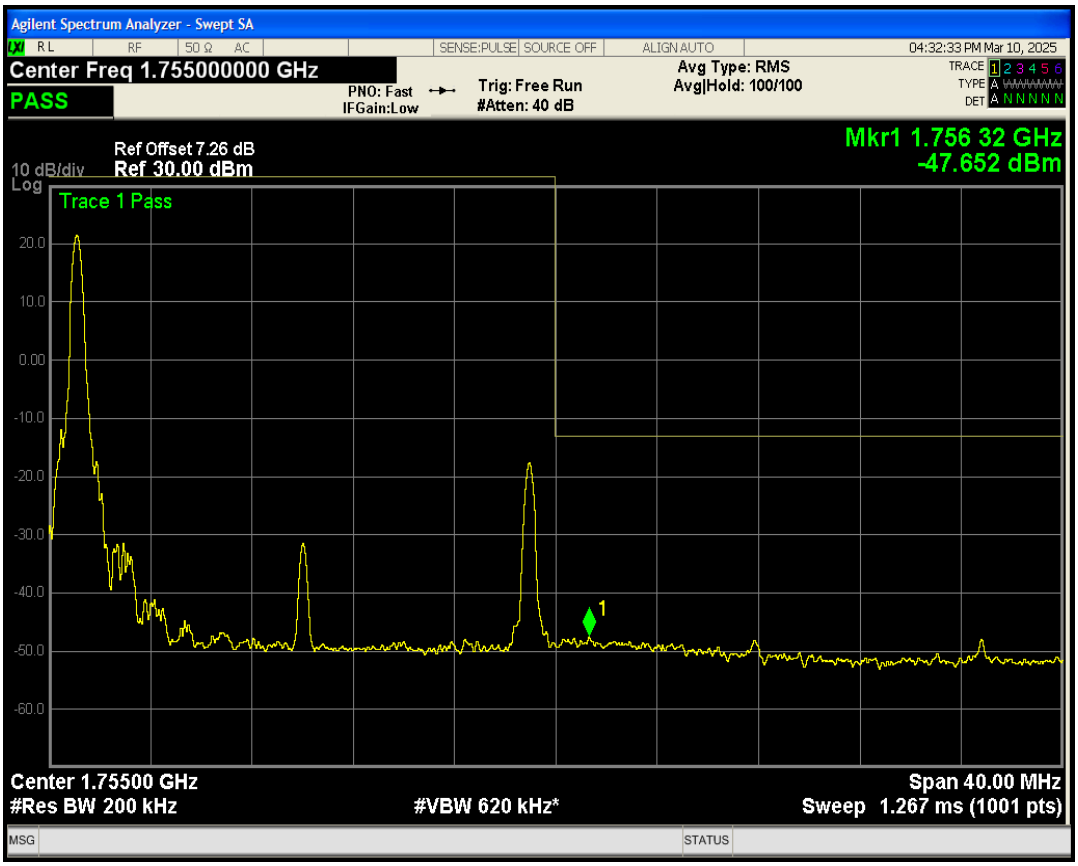
Band2 QAM16 BW=20MHz Channel=19100 RB Size=1 Position=#0



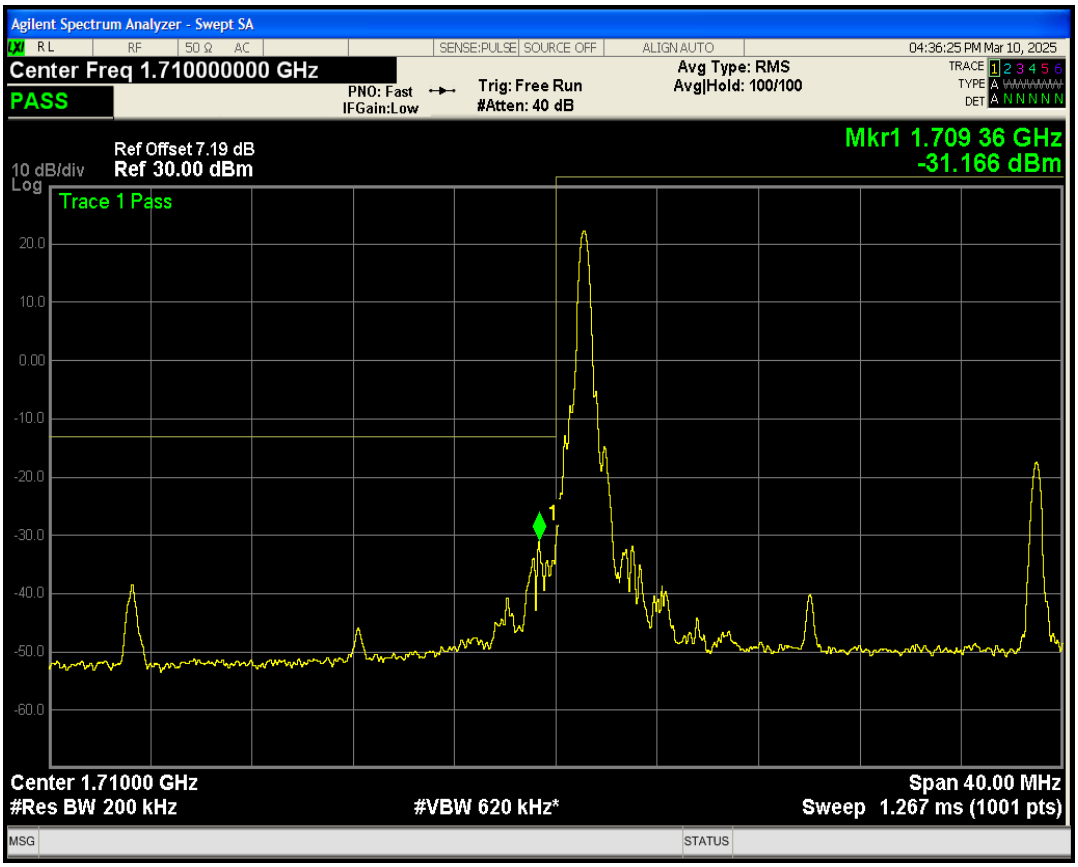
Band4 QAM16 BW=20MHz Channel=20050 RB Size=1 Position=#0



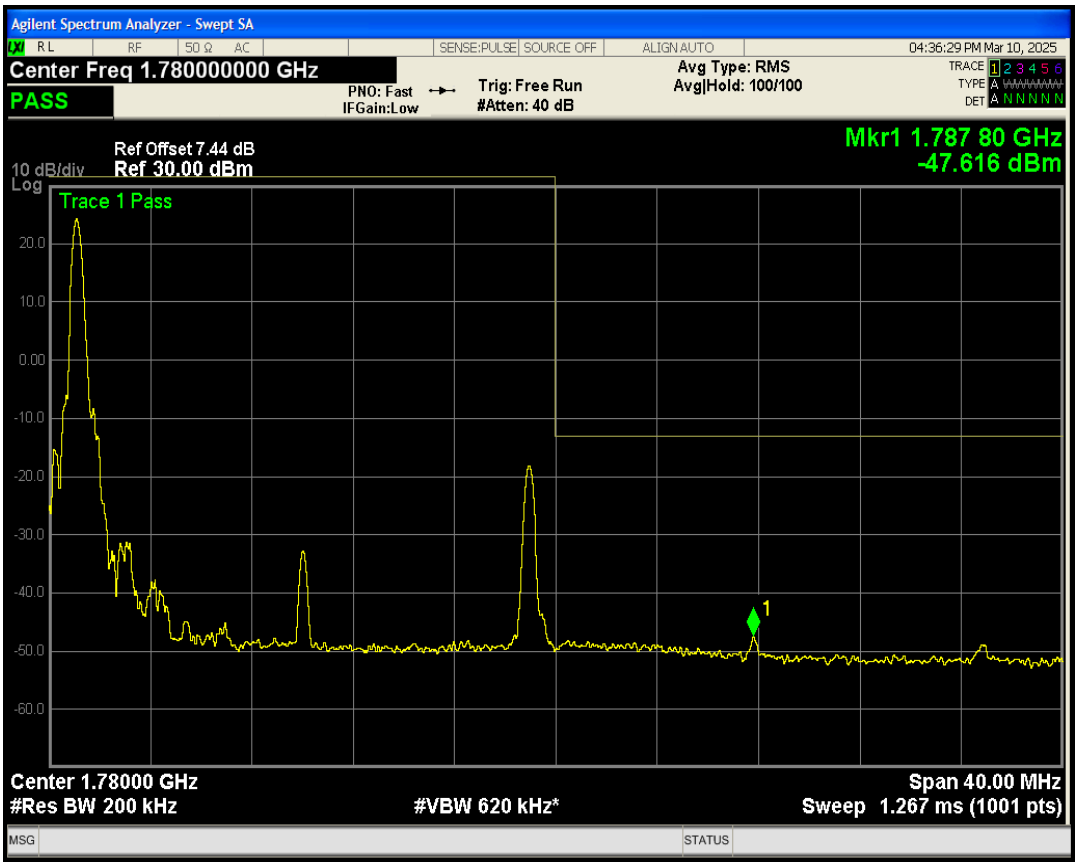
Band4 QAM16 BW=20MHz Channel=20300 RB Size=1 Position=#0



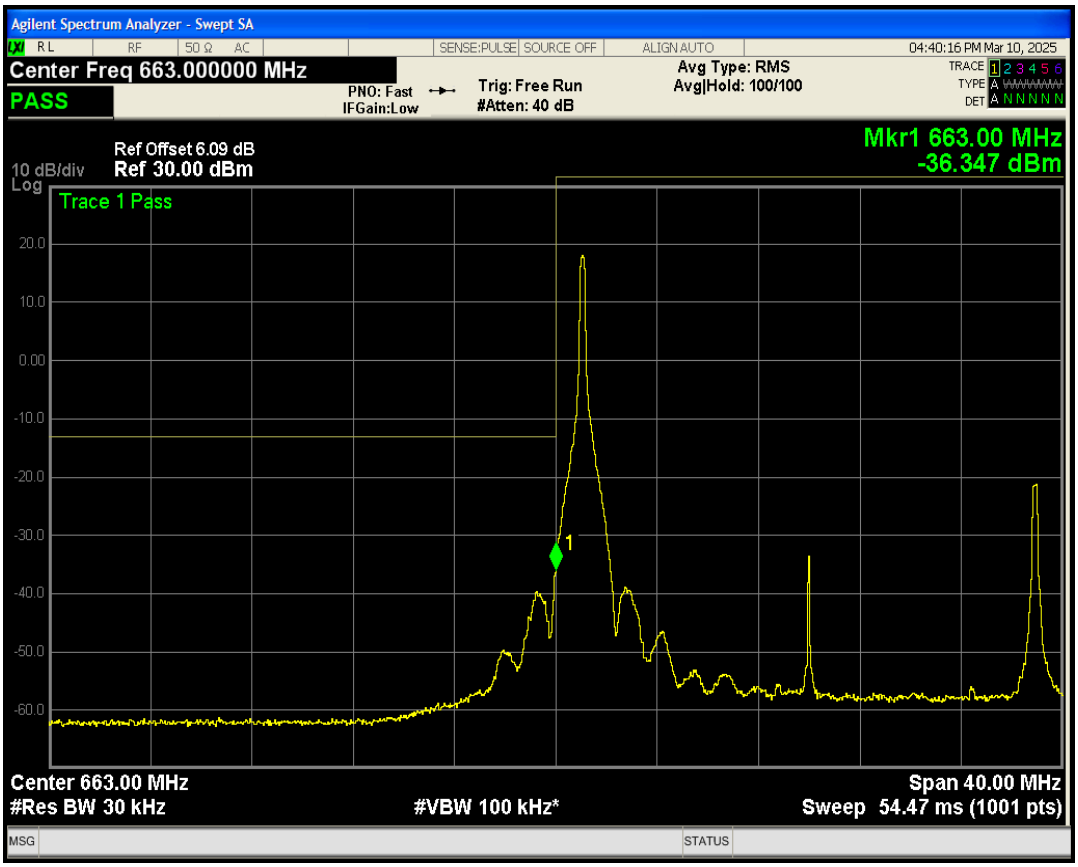
Band66 QAM16 BW=20MHz Channel=132072 RB Size=1 Position=#0



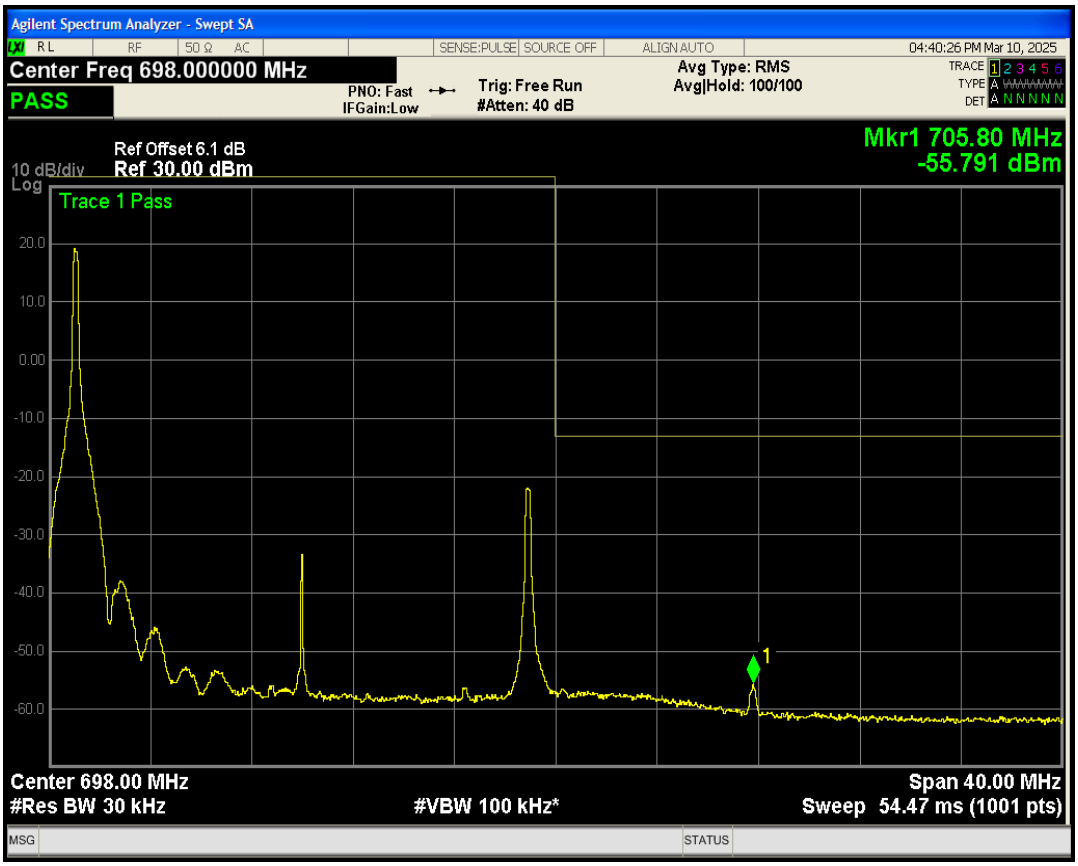
Band66 QAM16 BW=20MHz Channel=132572 RB Size=1 Position=#0



Band71 QAM16 BW=20MHz Channel=133222 RB Size=1 Position=#0



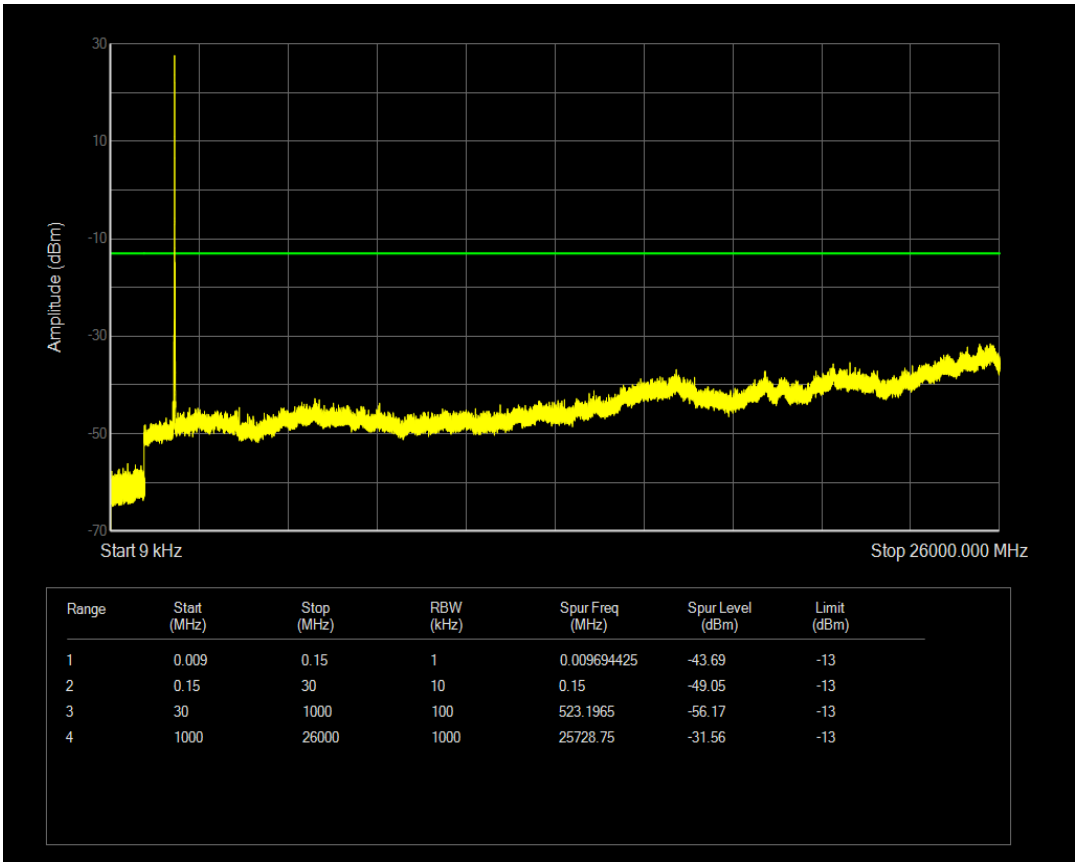
Band71 QAM16 BW=20MHz Channel=133372 RB Size=1 Position=#0



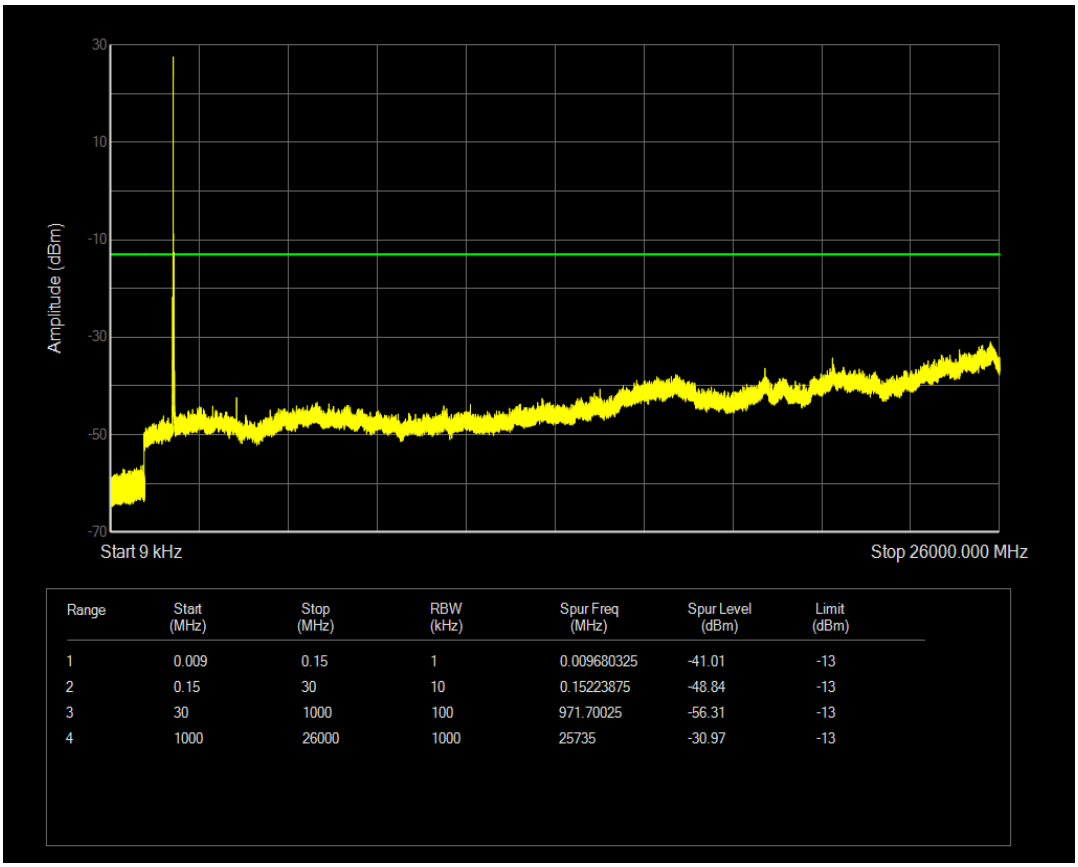
6 Out-of-band emissions

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band2	20	18700	1	#0	QAM16	25735.00	-30.97	-13	PASS
Band2	20	19100	1	#0	QAM16	25728.75	-31.56	-13	PASS
Band4	20	20050	1	#0	QAM16	25775.00	-30.99	-13	PASS
Band4	20	20300	1	#0	QAM16	25654.38	-31.15	-13	PASS
Band66	20	132072	1	#0	QAM16	25185.00	-31.30	-13	PASS
Band66	20	132572	1	#0	QAM16	25713.13	-31.21	-13	PASS
Band71	20	133222	1	#0	QAM16	1992.50	-29.36	-13	PASS
Band71	20	133372	1	#0	QAM16	2037.50	-27.47	-13	PASS

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

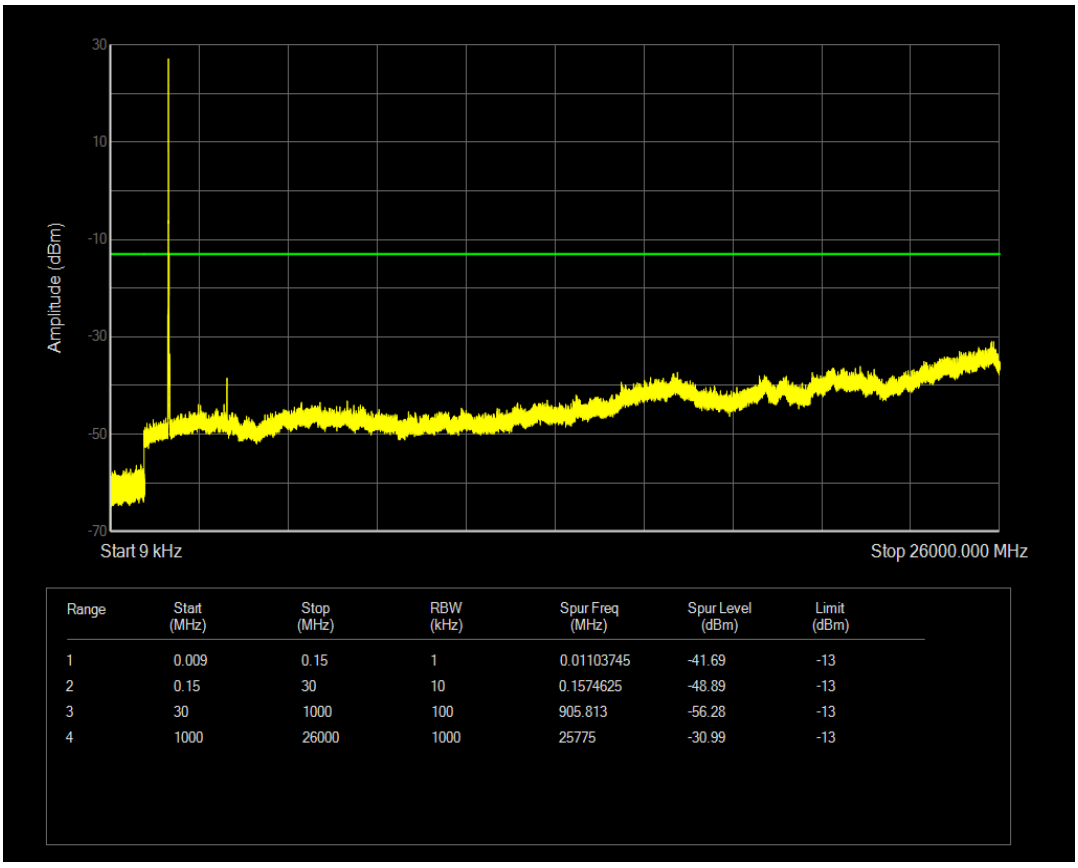


Band2 QAM16 BW=20MHz Channel=18700 RB Size=1 Position=#0



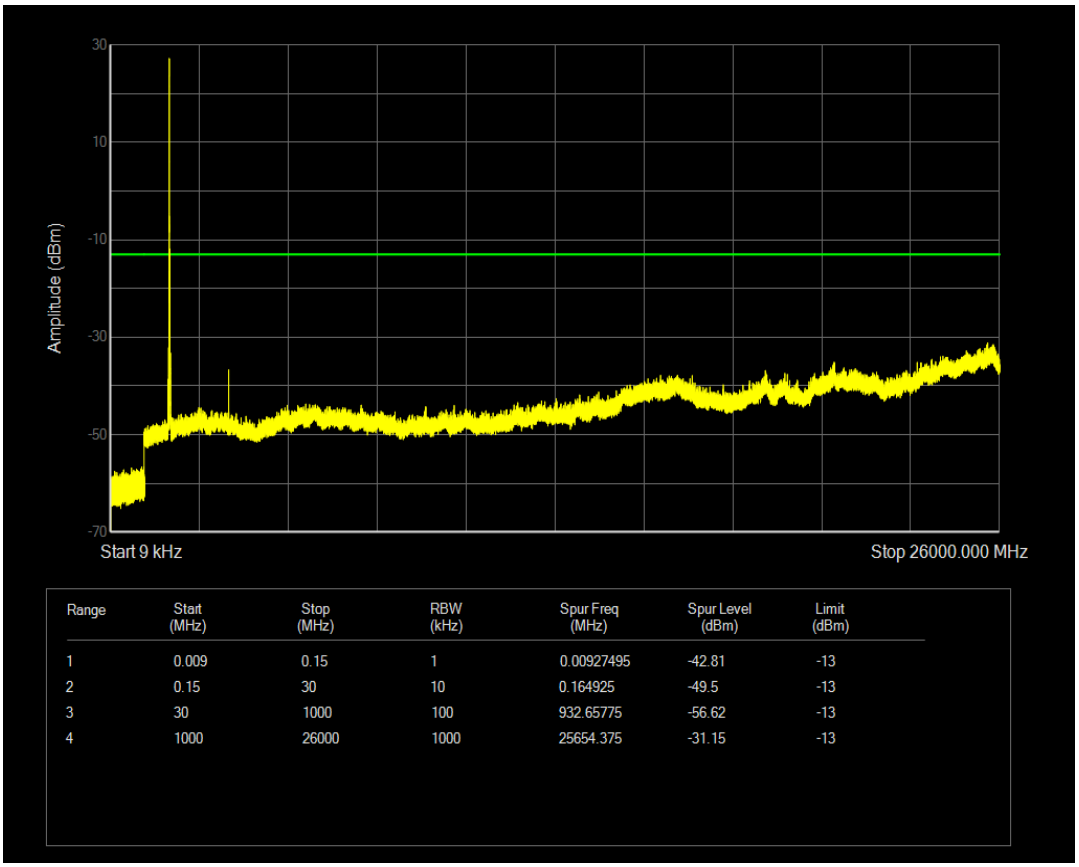
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009680325	-41.01	-13
2	0.15	30	10	0.15223875	-48.84	-13
3	30	1000	100	971.70025	-56.31	-13
4	1000	26000	1000	25735	-30.97	-13

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



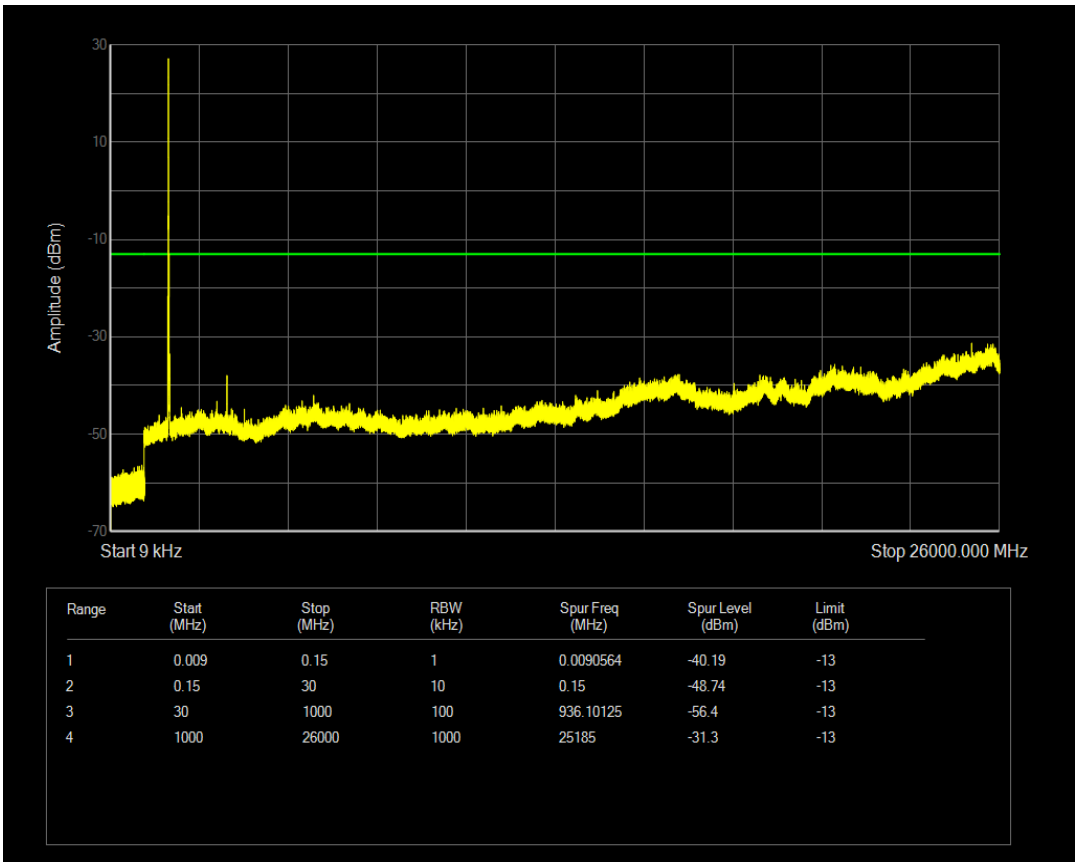
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01103745	-41.69	-13
2	0.15	30	10	0.1574625	-48.89	-13
3	30	1000	100	905.813	-56.28	-13
4	1000	26000	1000	25775	-30.99	-13

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



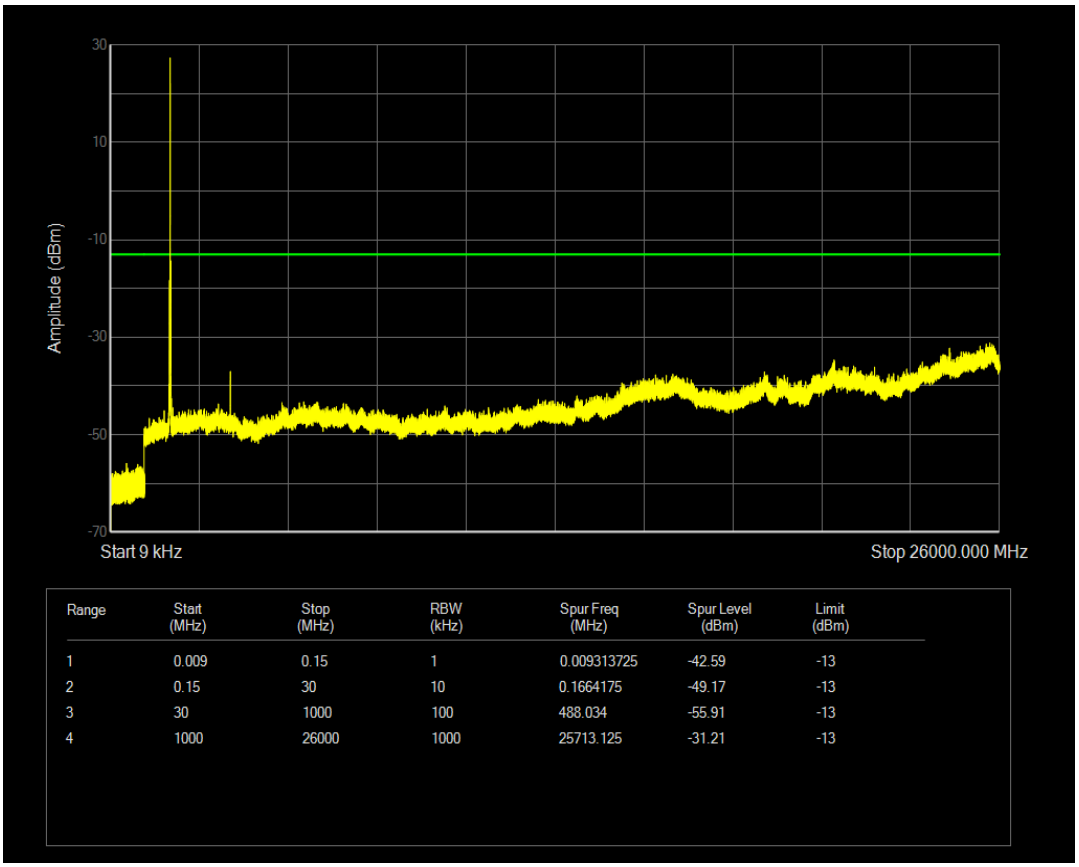
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00927495	-42.81	-13
2	0.15	30	10	0.164925	-49.5	-13
3	30	1000	100	932.65775	-56.62	-13
4	1000	26000	1000	25654.375	-31.15	-13

Band66 QAM16 BW=20MHz Channel=132072 RB Size=1 Position=#0



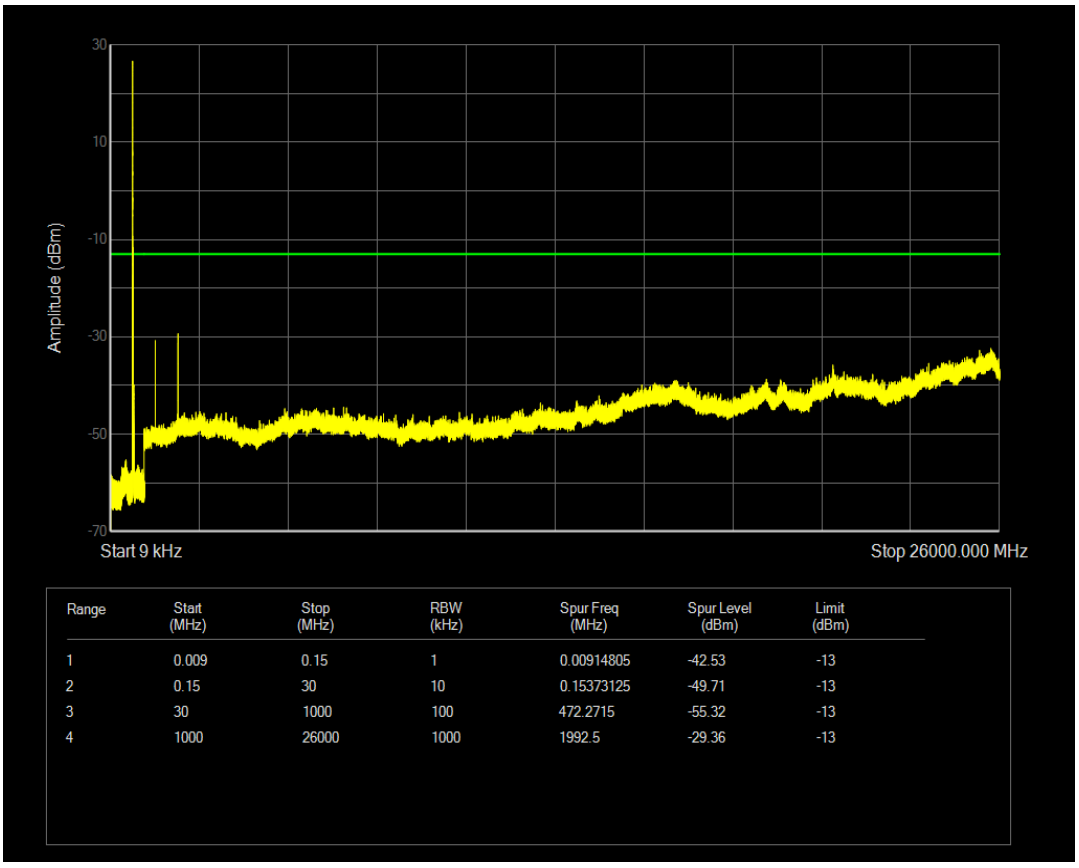
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0090564	-40.19	-13
2	0.15	30	10	0.15	-48.74	-13
3	30	1000	100	936.10125	-56.4	-13
4	1000	26000	1000	25185	-31.3	-13

Band66 QAM16 BW=20MHz Channel=132572 RB Size=1 Position=#0



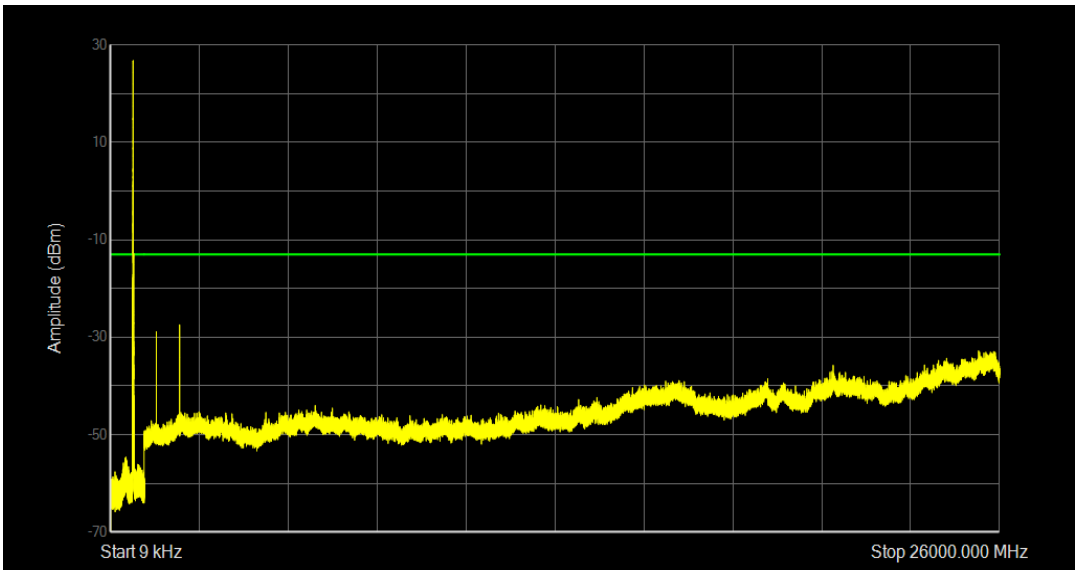
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009313725	-42.59	-13
2	0.15	30	10	0.1664175	-49.17	-13
3	30	1000	100	488.034	-55.91	-13
4	1000	26000	1000	25713.125	-31.21	-13

Band71 QAM16 BW=20MHz Channel=133222 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00914805	-42.53	-13
2	0.15	30	10	0.15373125	-49.71	-13
3	30	1000	100	472.2715	-55.32	-13
4	1000	26000	1000	1992.5	-29.36	-13

Band71 QAM16 BW=20MHz Channel=133372 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0091833	-41.4	-13
2	0.15	30	10	0.1634325	-50.34	-13
3	30	1000	100	468.343	-54.63	-13
4	1000	26000	1000	2037.5	-27.47	-13