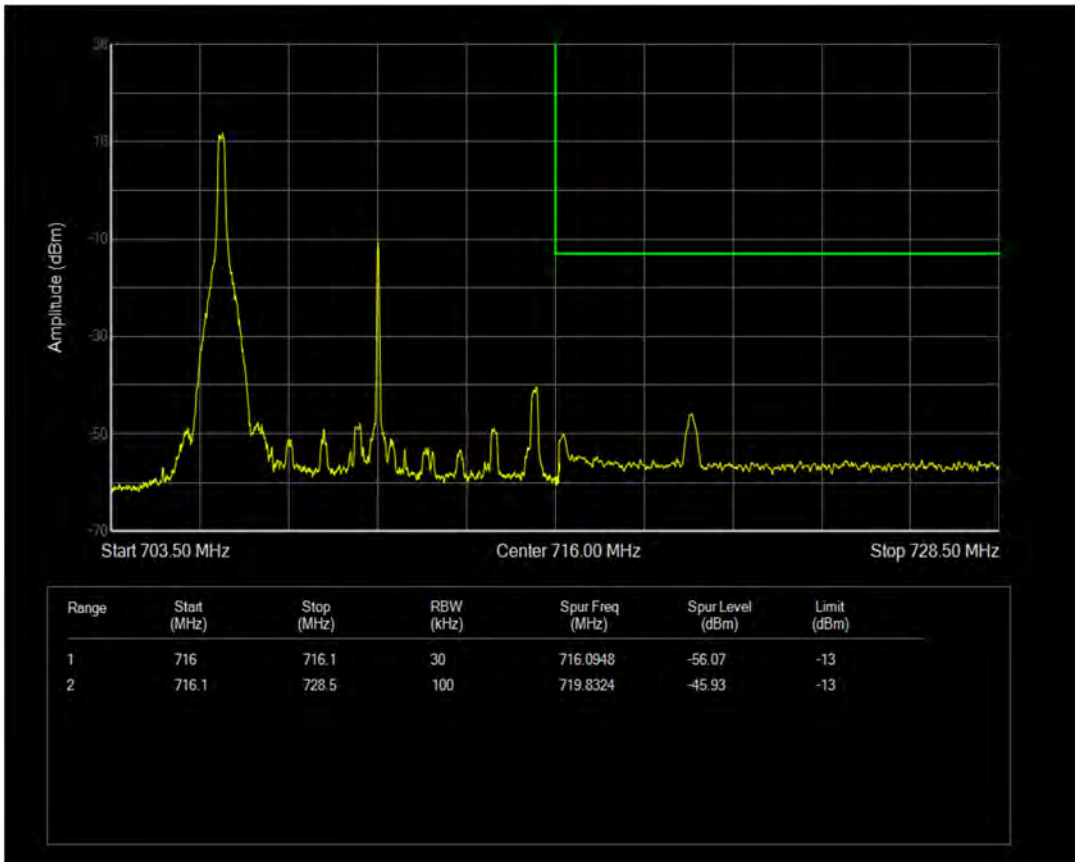
5 Band edge

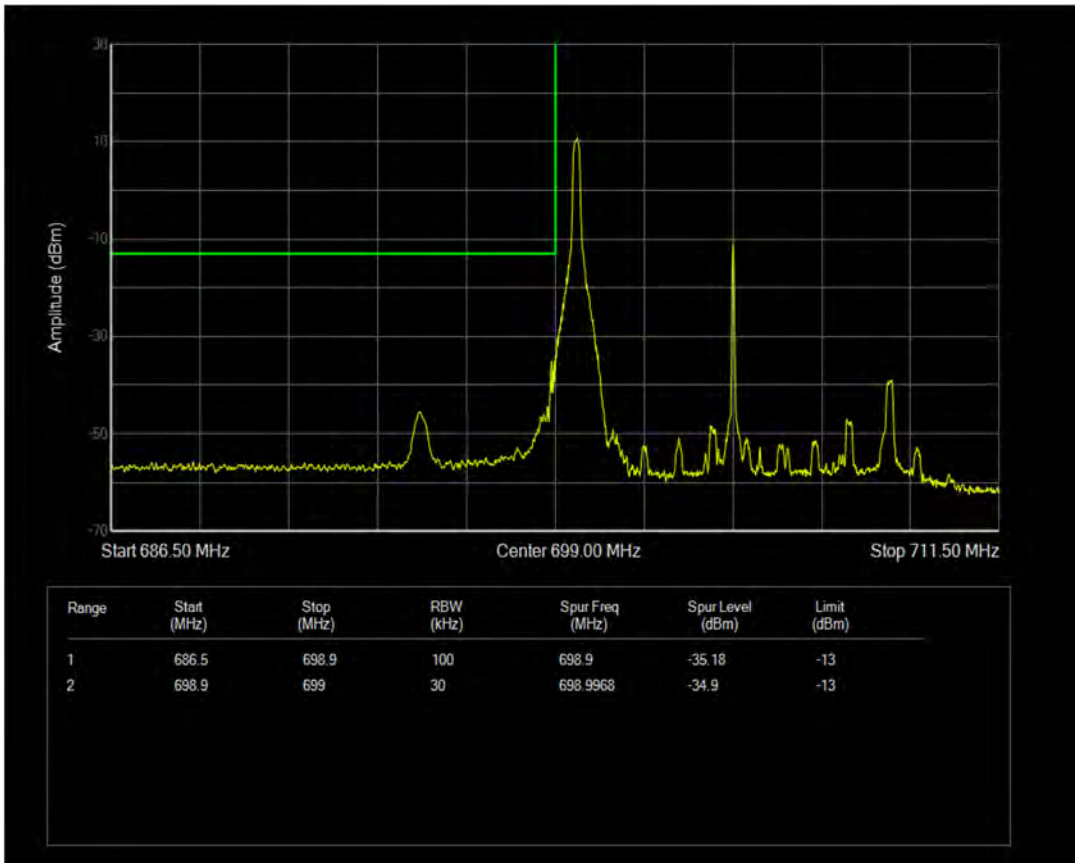
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	10	23060	1	#0	QAM16	699.00	-34.90	-13	PASS
Band12	10	23130	1	#0	QAM16	719.83	-45.93	-13	PASS
Band13	10	23230	1	#0	QAM16	795.22	-41.45	-35	PASS
Band17	10	23780	1	#0	QAM16	704.00	-29.18	-13	PASS
Band17	10	23800	1	#0	QAM16	719.78	-46.31	-13	PASS
Band2	10	18650	1	#0	QAM16	1850.00	-32.15	-13	PASS
Band2	10	19150	1	#0	QAM16	1918.26	-35.91	-13	PASS
Band38	10	37800	1	#0	QAM16	2569.00	-16.26	-10	PASS
Band38	10	38200	1	#0	QAM16	2630.57	-41.17	-25	PASS
Band40a	10	38750	1	#0	QAM16	2288.08	-39.09	-37	PASS
Band40b	10	39200	1	#0	QAM16	2368.39	-41.77	-40	PASS
Band4	10	20000	1	#0	QAM16	1710.00	-28.94	-13	PASS
Band4	10	20350	1	#0	QAM16	1763.20	-38.91	-13	PASS
Band41	10	39700	1	#0	QAM16	2495.00	-15.34	-13	PASS
Band41	10	41540	1	#0	QAM16	2700.74	-41.26	-25	PASS
Band5	10	20450	1	#0	QAM16	824.00	-20.20	-13	PASS
Band5	10	20600	1	#0	QAM16	857.22	-29.50	-13	PASS
Band7	10	20800	1	#0	QAM16	2499.00	-16.86	-10	PASS
Band7	10	21400	1	#0	QAM16	2578.30	-28.45	-13	PASS

Band12 QAM16 BW=10MHz Channel=23130 RB Size=1 Position=#0



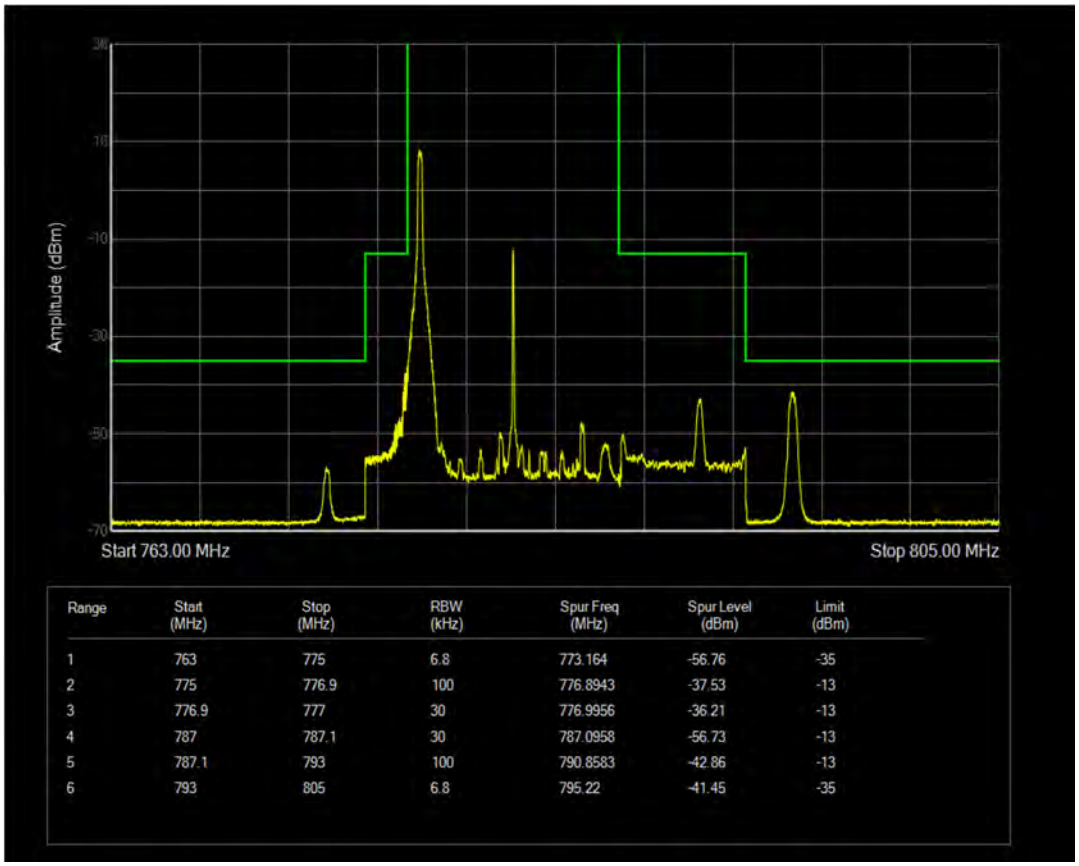
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	716	716.1	30	716.0948	-56.07	-13
2	716.1	728.5	100	719.8324	-45.93	-13

Band12 QAM16 BW=10MHz Channel=23060 RB Size=1 Position=#0



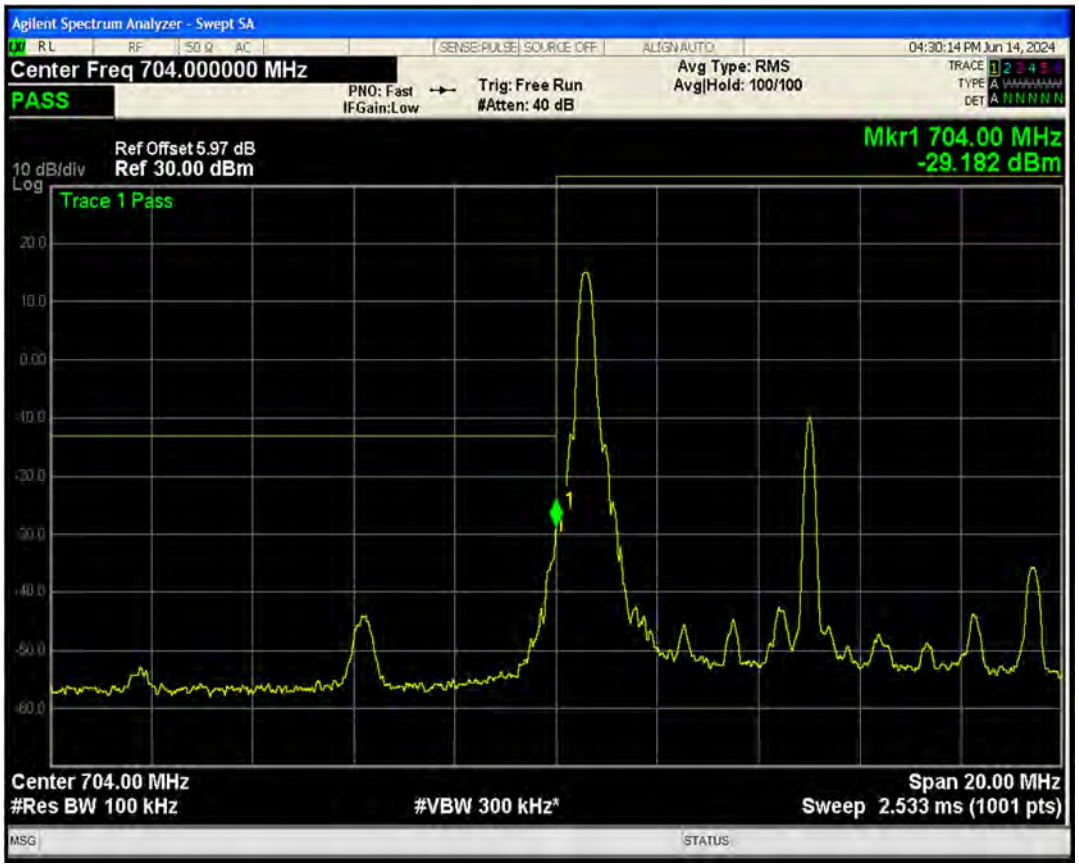
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	686.5	698.9	100	698.9	-35.18	-13
2	698.9	699	30	698.9968	-34.9	-13

Band13 QAM16 BW=10MHz Channel=23230 RB Size=1 Position=#0

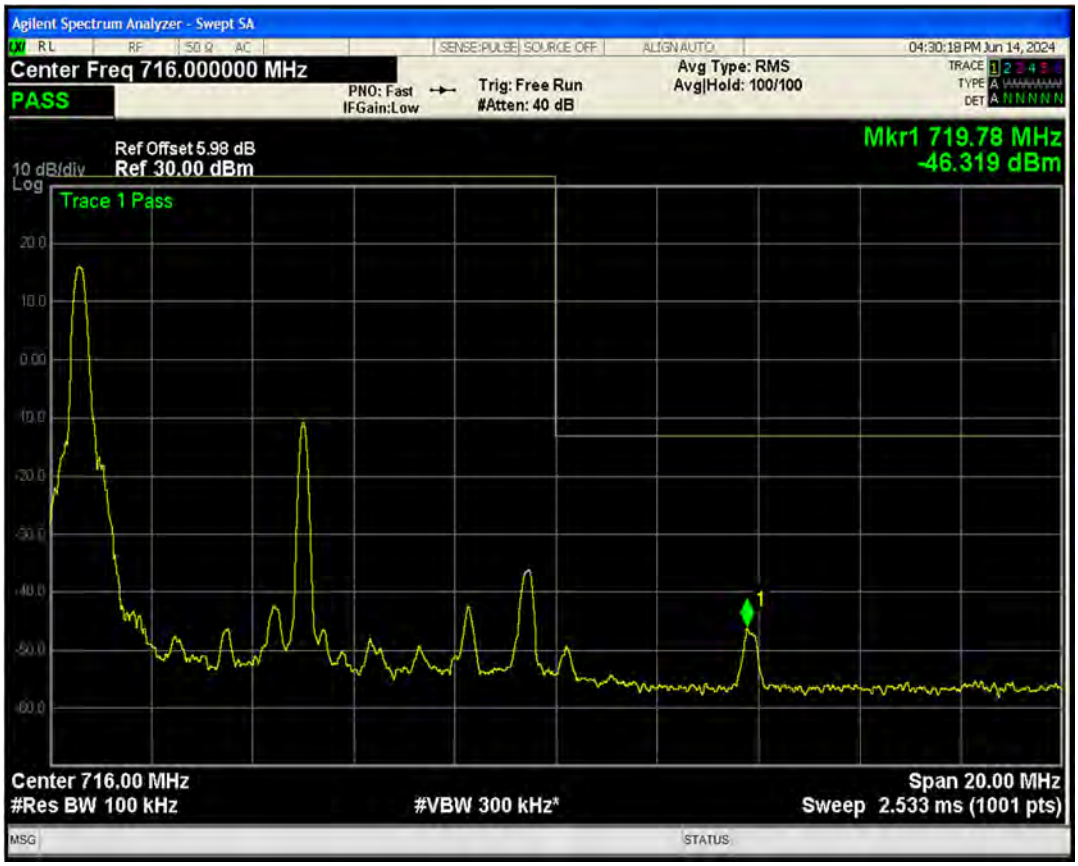


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	763	775	6.8	773.164	-56.76	-35
2	775	776.9	100	776.8943	-37.53	-13
3	776.9	777	30	776.9956	-36.21	-13
4	787	787.1	30	787.0958	-56.73	-13
5	787.1	793	100	790.8583	-42.86	-13
6	793	805	6.8	795.22	-41.45	-35

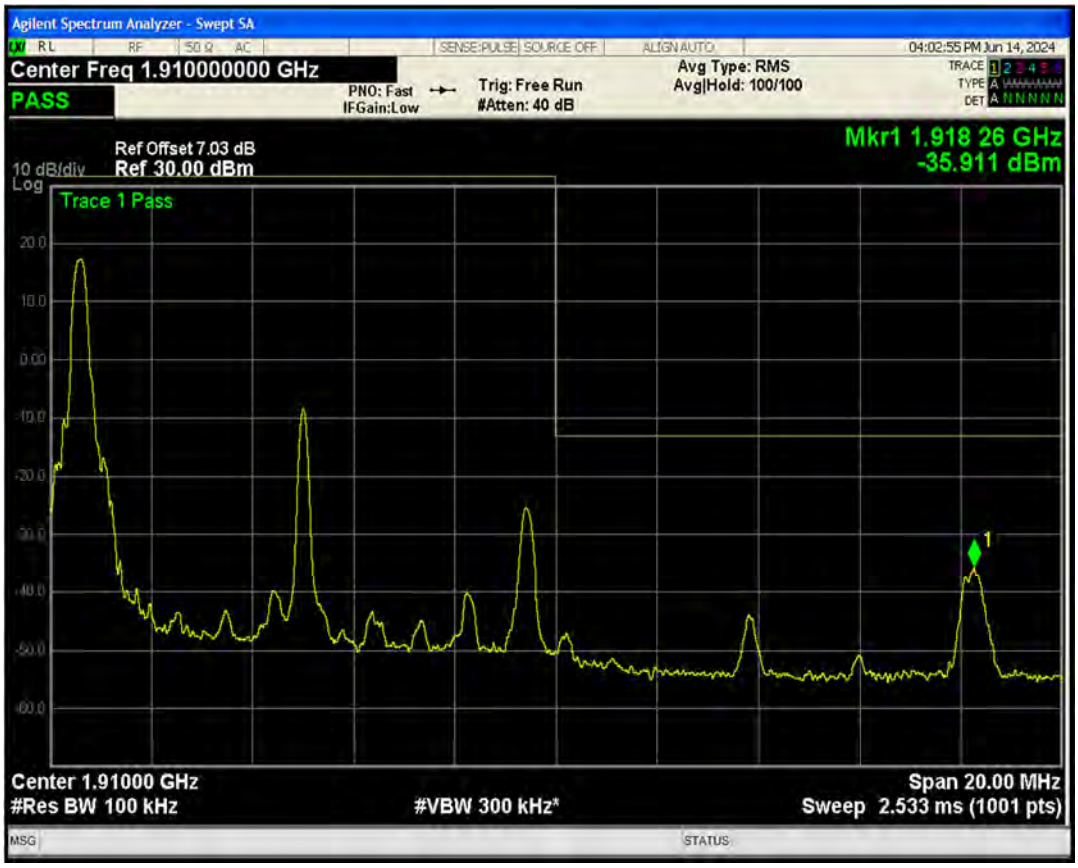
Band17 QAM16 BW=10MHz Channel=23780 RB Size=1 Position=#0



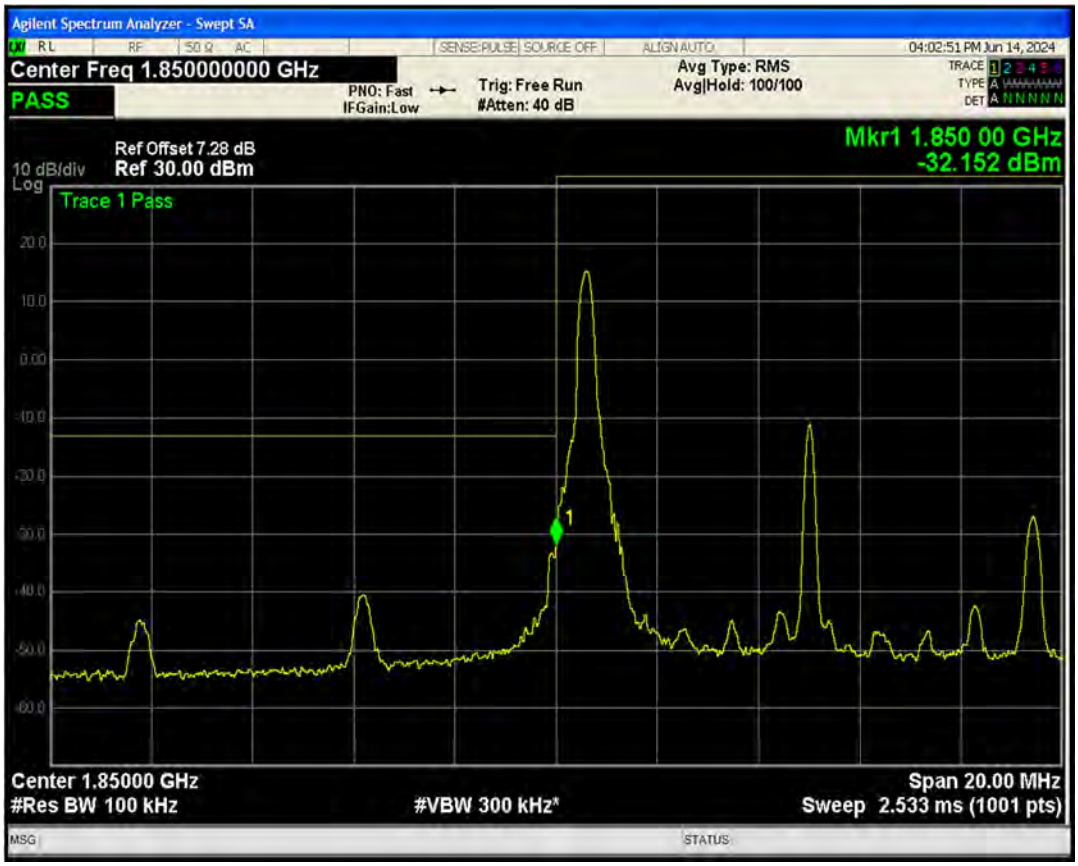
Band17 QAM16 BW=10MHz Channel=23800 RB Size=1 Position=#0



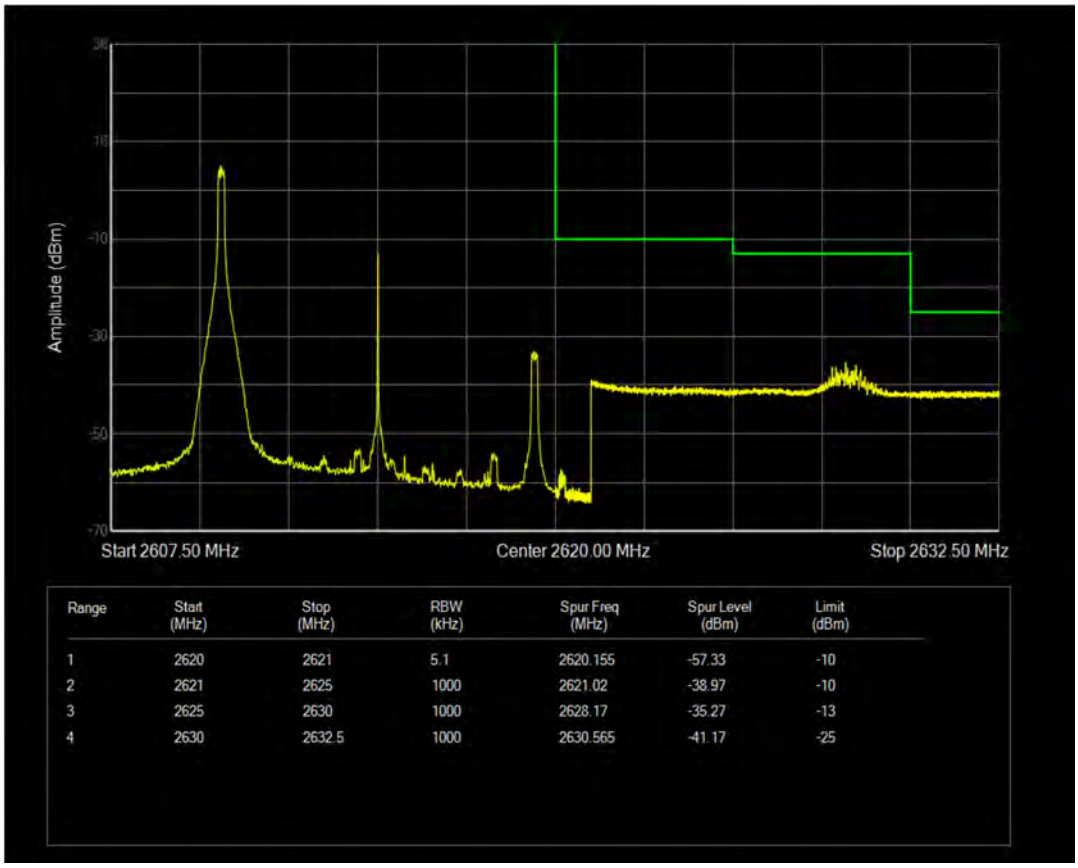
Band2 QAM16 BW=10MHz Channel=19150 RB Size=1 Position=#0



Band2 QAM16 BW=10MHz Channel=18650 RB Size=1 Position=#0

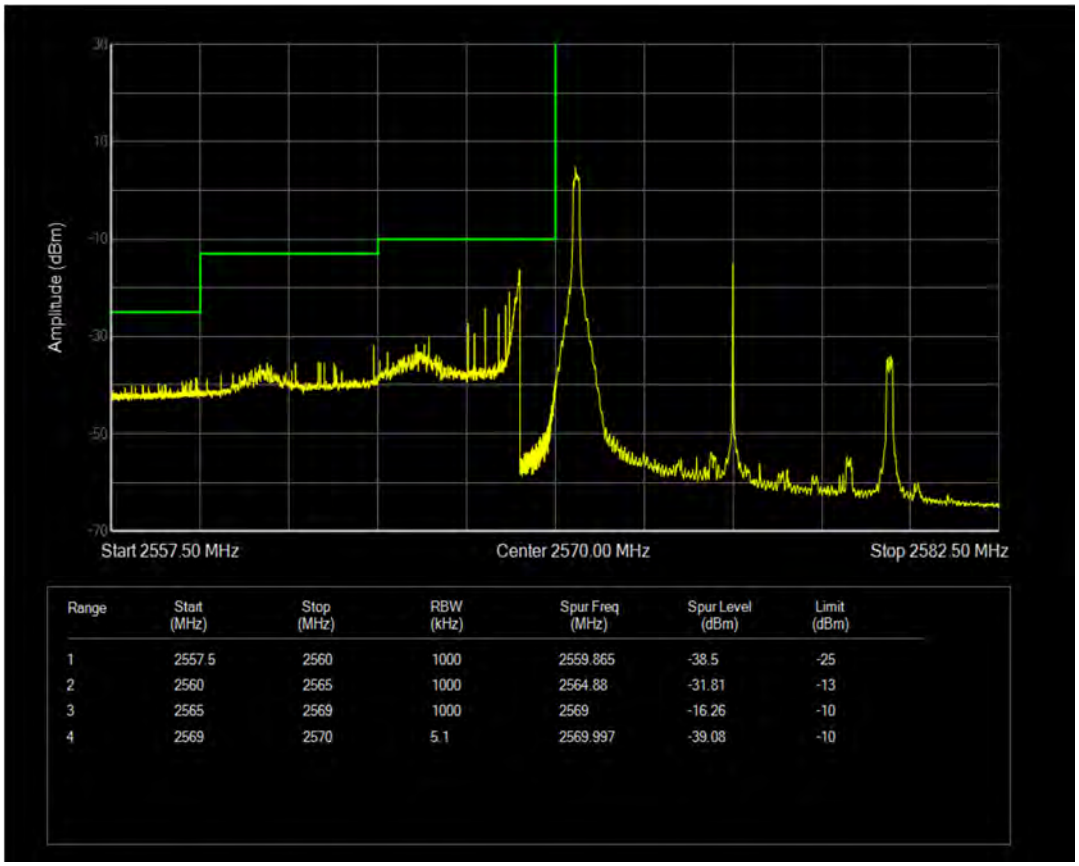


Band38 QAM16 BW=10MHz Channel=38200 RB Size=1 Position=#0



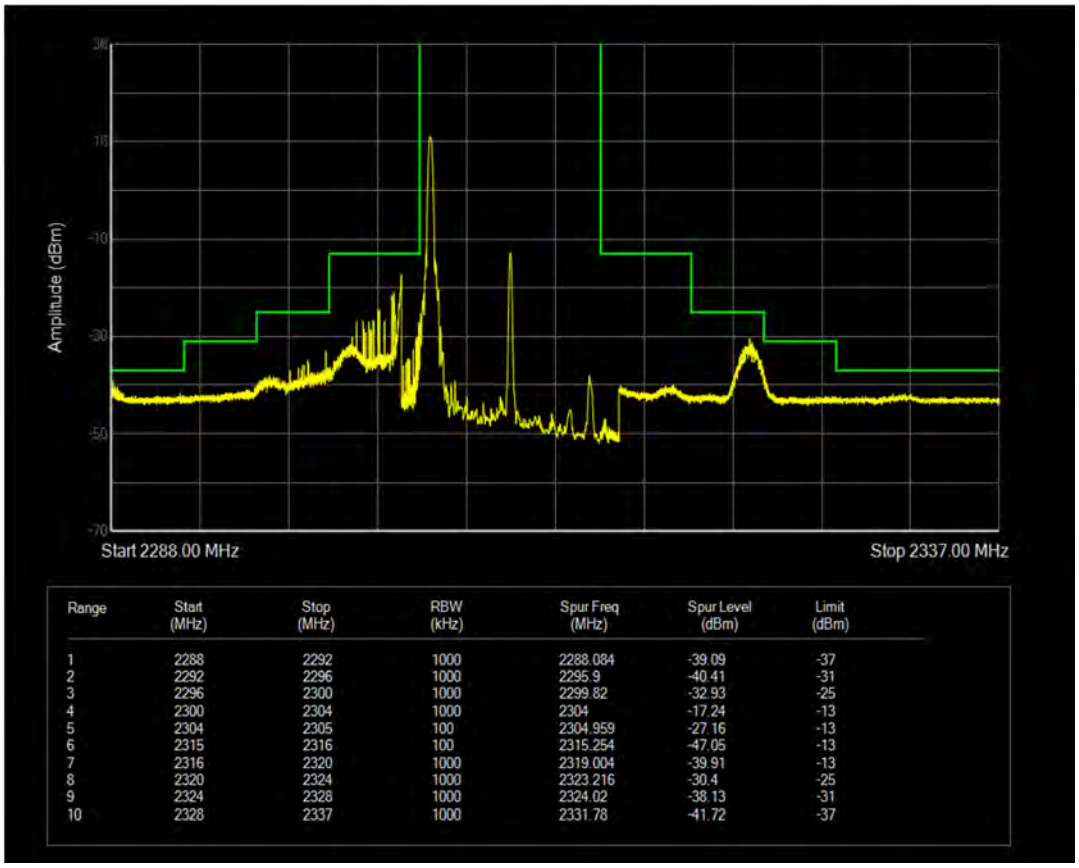
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2620	2621	5.1	2620.155	-57.33	-10
2	2621	2625	1000	2621.02	-38.97	-10
3	2625	2630	1000	2628.17	-35.27	-13
4	2630	2632.5	1000	2630.565	-41.17	-25

Band38 QAM16 BW=10MHz Channel=37800 RB Size=1 Position=#0



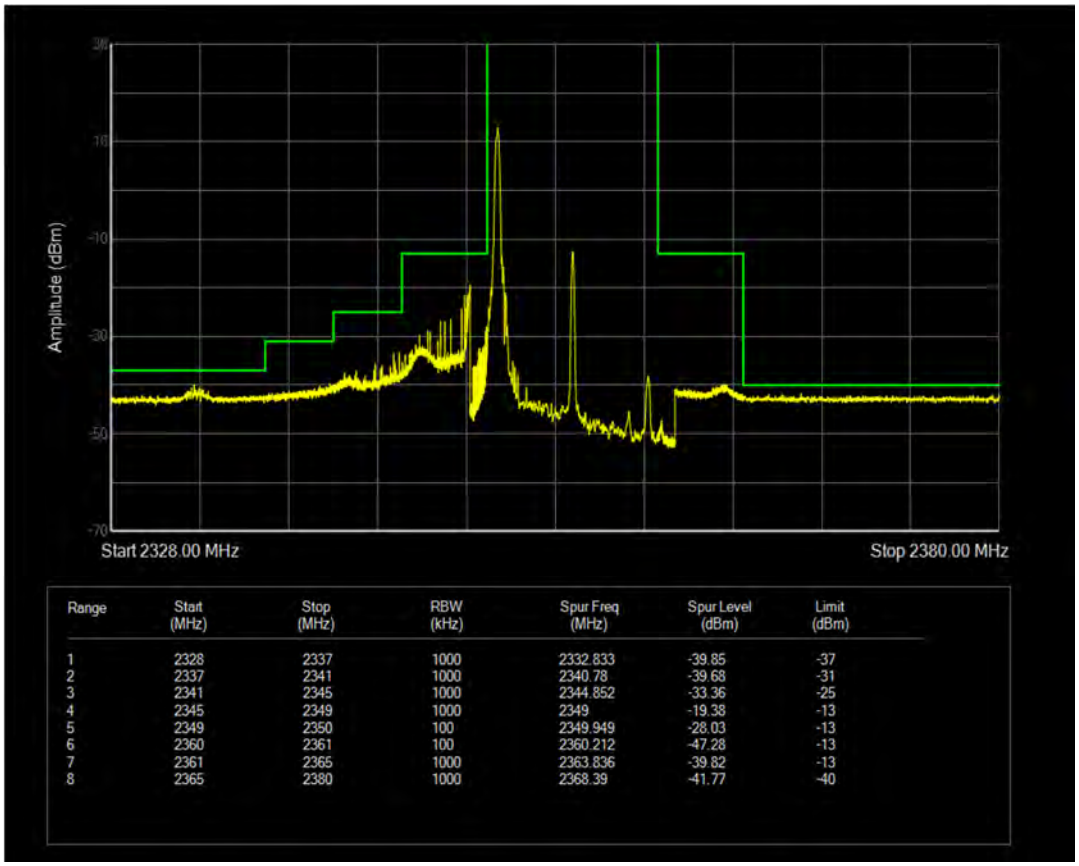
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2557.5	2560	1000	2559.865	-38.5	-25
2	2560	2565	1000	2564.88	-31.81	-13
3	2565	2569	1000	2569	-16.26	-10
4	2569	2570	5.1	2569.997	-39.08	-10

Band40a QAM16 BW=10MHz Channel=38750 RB Size=1 Position=#0



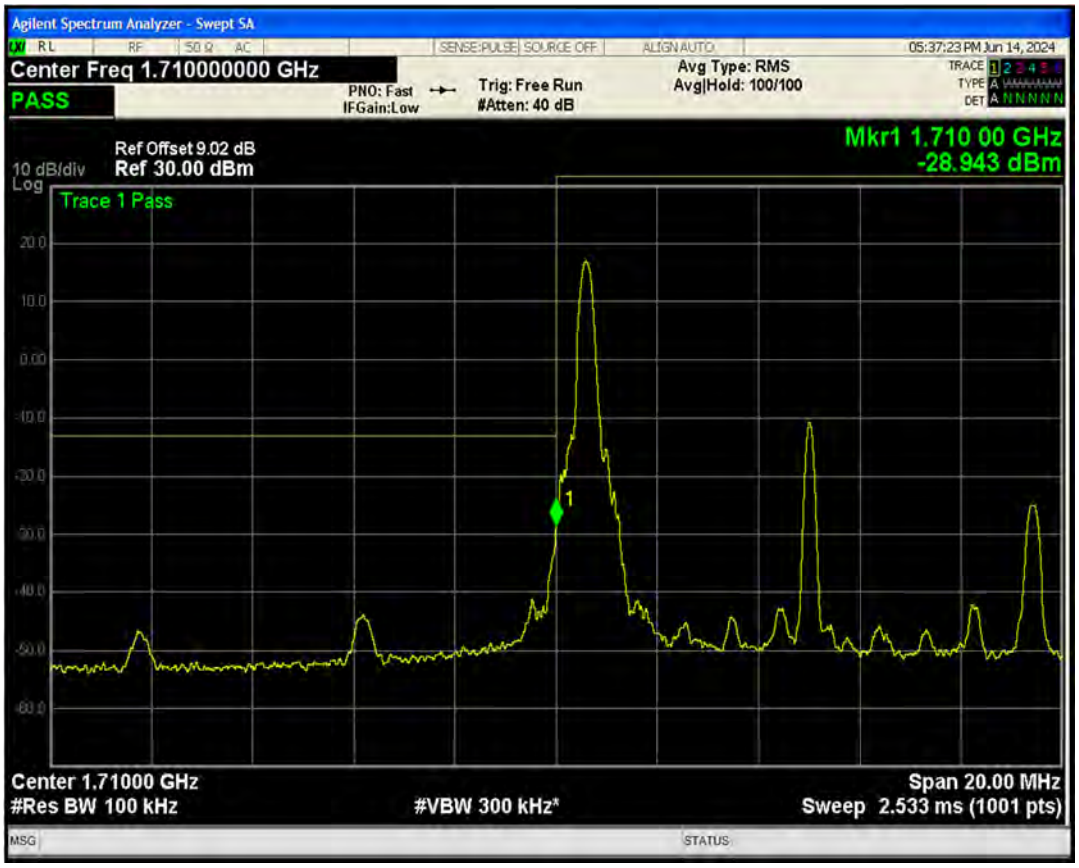
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2288	2292	1000	2288.084	-39.09	-37
2	2292	2296	1000	2295.9	-40.41	-31
3	2296	2300	1000	2299.82	-32.93	-25
4	2300	2304	1000	2304	-17.24	-13
5	2304	2305	100	2304.959	-27.16	-13
6	2315	2316	100	2315.254	-47.05	-13
7	2316	2320	1000	2319.004	-39.91	-13
8	2320	2324	1000	2323.216	-30.4	-25
9	2324	2328	1000	2324.02	-38.13	-31
10	2328	2337	1000	2331.78	-41.72	-37

Band40b QAM16 BW=10MHz Channel=39200 RB Size=1 Position=#0

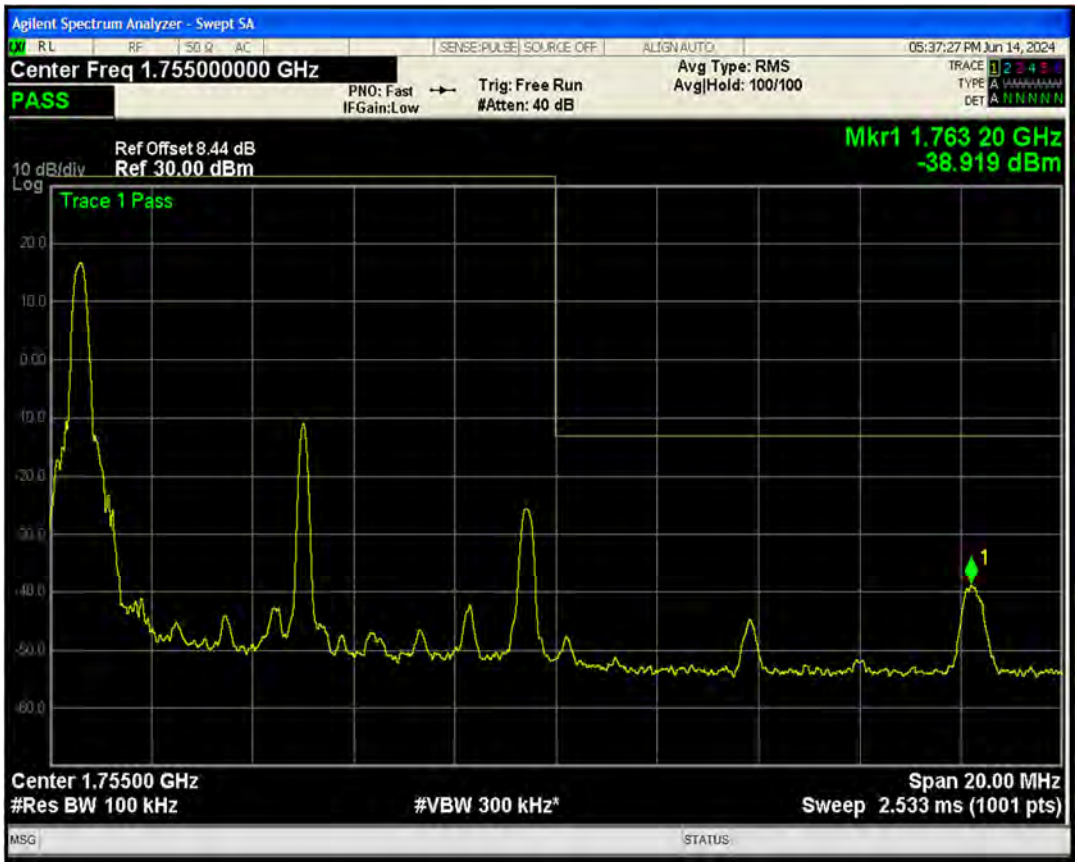


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2328	2337	1000	2332.833	-39.85	-37
2	2337	2341	1000	2340.78	-39.68	-31
3	2341	2345	1000	2344.852	-33.36	-25
4	2345	2349	1000	2349	-19.38	-13
5	2349	2350	100	2349.949	-28.03	-13
6	2360	2361	100	2360.212	-47.28	-13
7	2361	2365	1000	2363.836	-39.82	-13
8	2365	2380	1000	2368.39	-41.77	-40

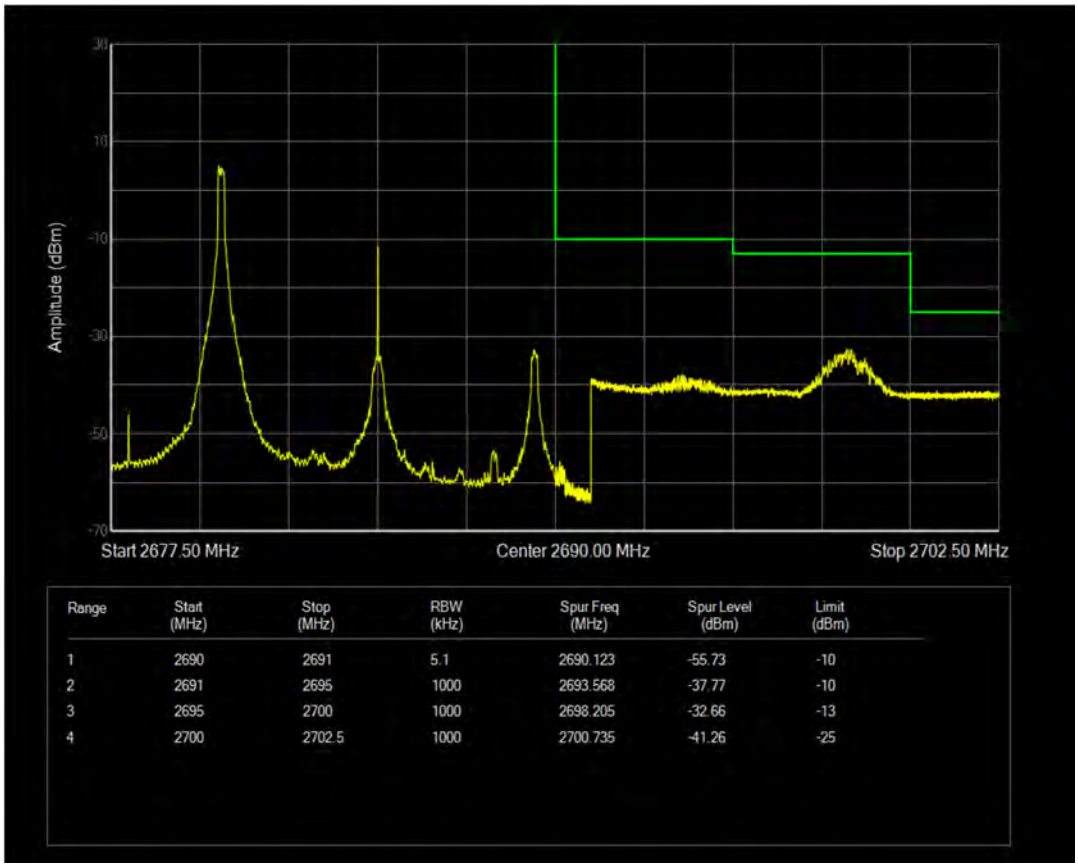
Band4 QAM16 BW=10MHz Channel=20000 RB Size=1 Position=#0



Band4 QAM16 BW=10MHz Channel=20350 RB Size=1 Position=#0

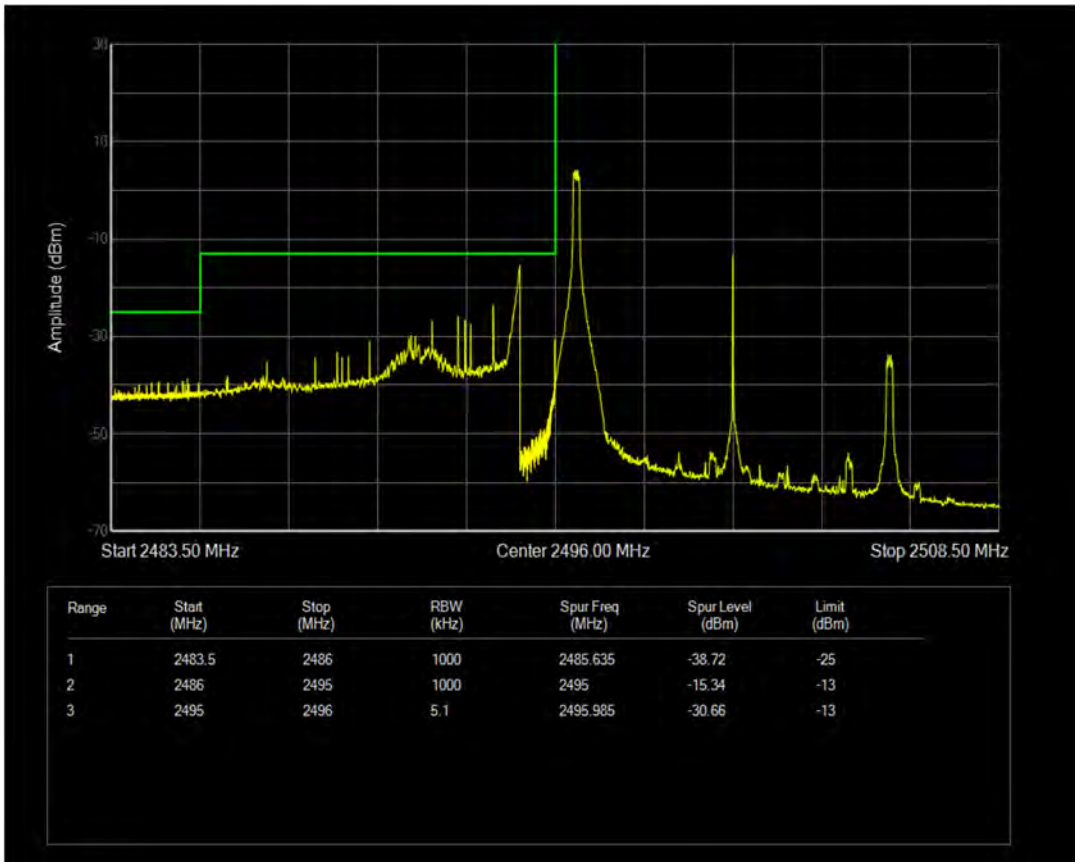


Band41 QAM16 BW=10MHz Channel=41540 RB Size=1 Position=#0



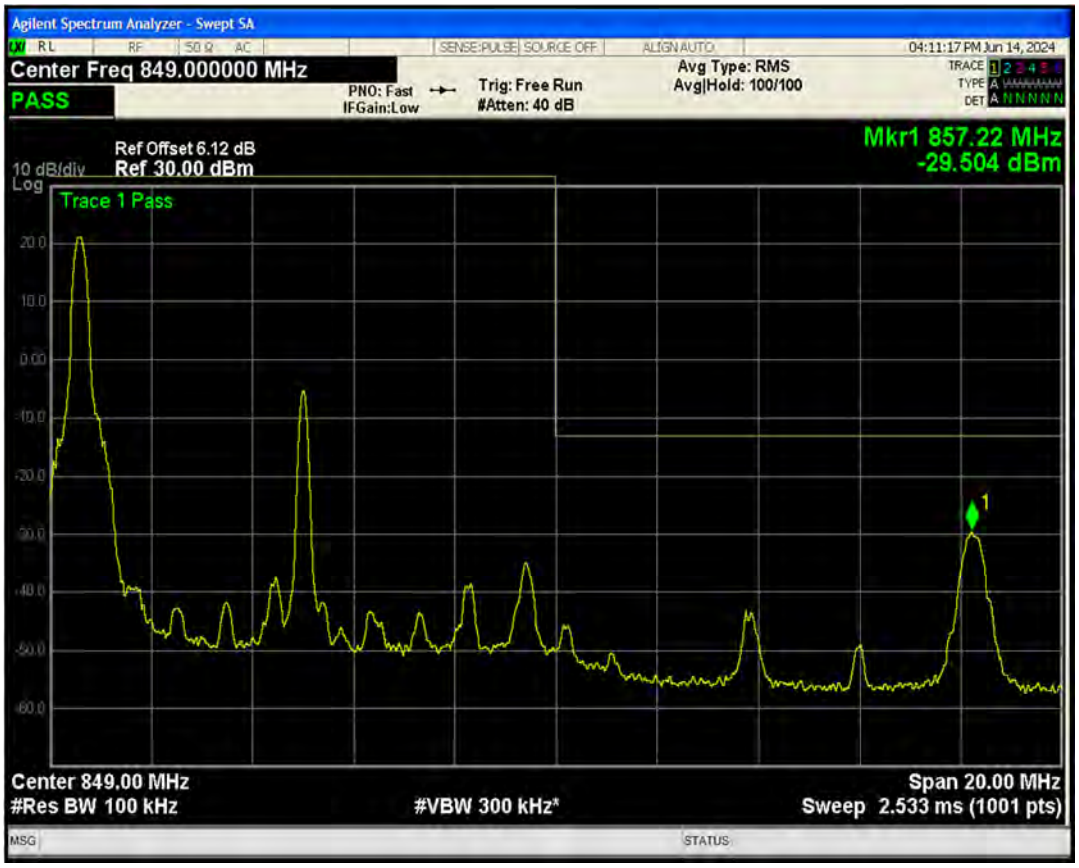
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2690	2691	5.1	2690.123	-55.73	-10
2	2691	2695	1000	2693.568	-37.77	-10
3	2695	2700	1000	2698.205	-32.66	-13
4	2700	2702.5	1000	2700.735	-41.26	-25

Band41 QAM16 BW=10MHz Channel=39700 RB Size=1 Position=#0

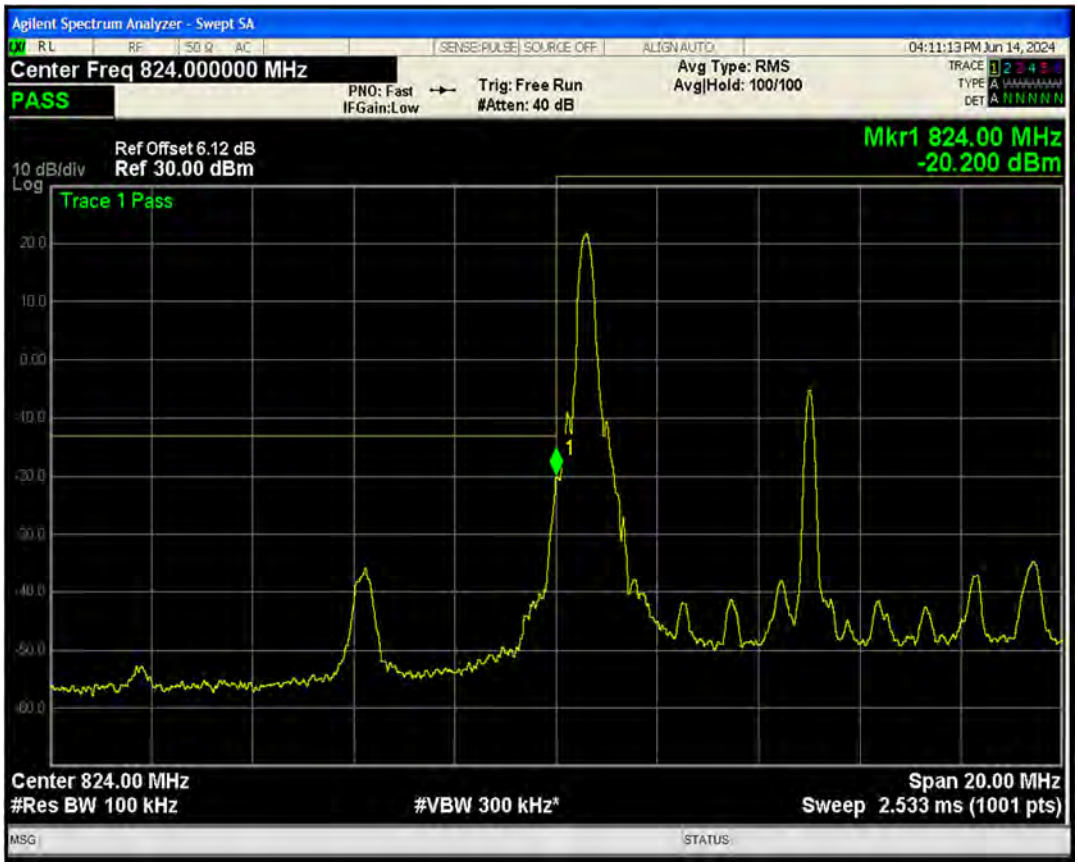


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2483.5	2486	1000	2485.635	-38.72	-25
2	2486	2495	1000	2495	-15.34	-13
3	2495	2496	5.1	2495.985	-30.66	-13

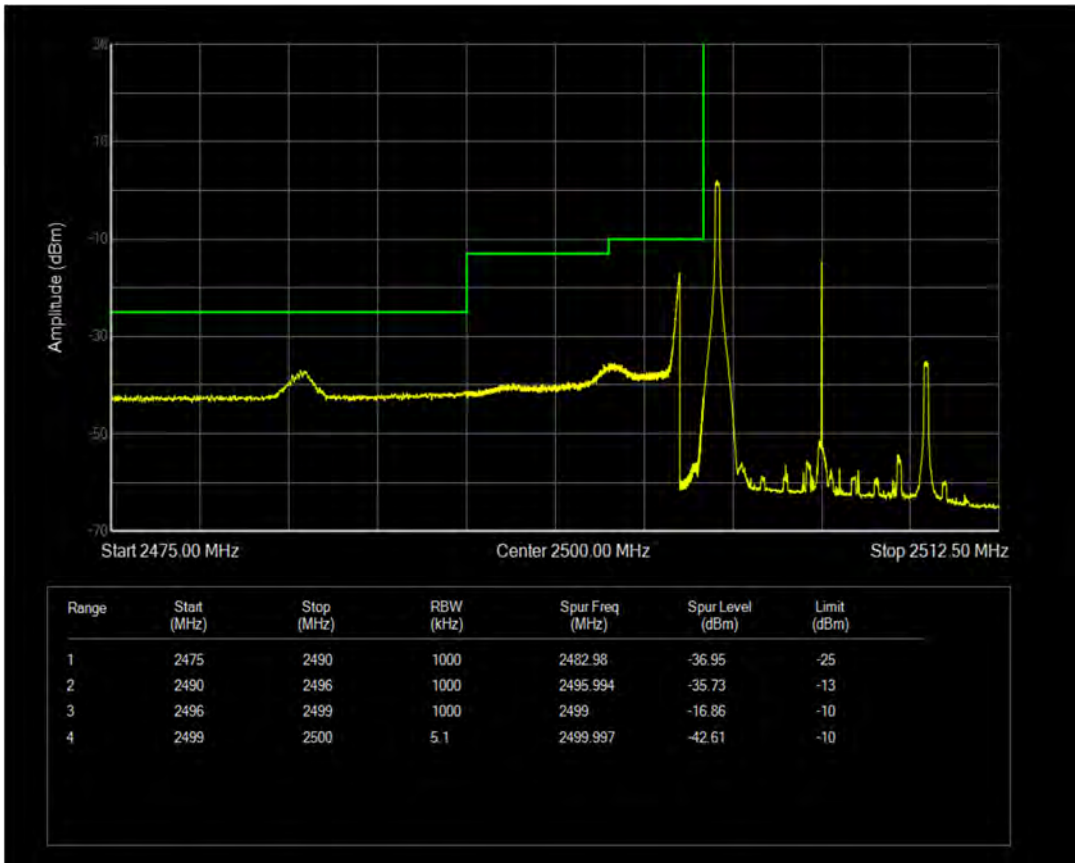
Band5 QAM16 BW=10MHz Channel=20600 RB Size=1 Position=#0



Band5 QAM16 BW=10MHz Channel=20450 RB Size=1 Position=#0

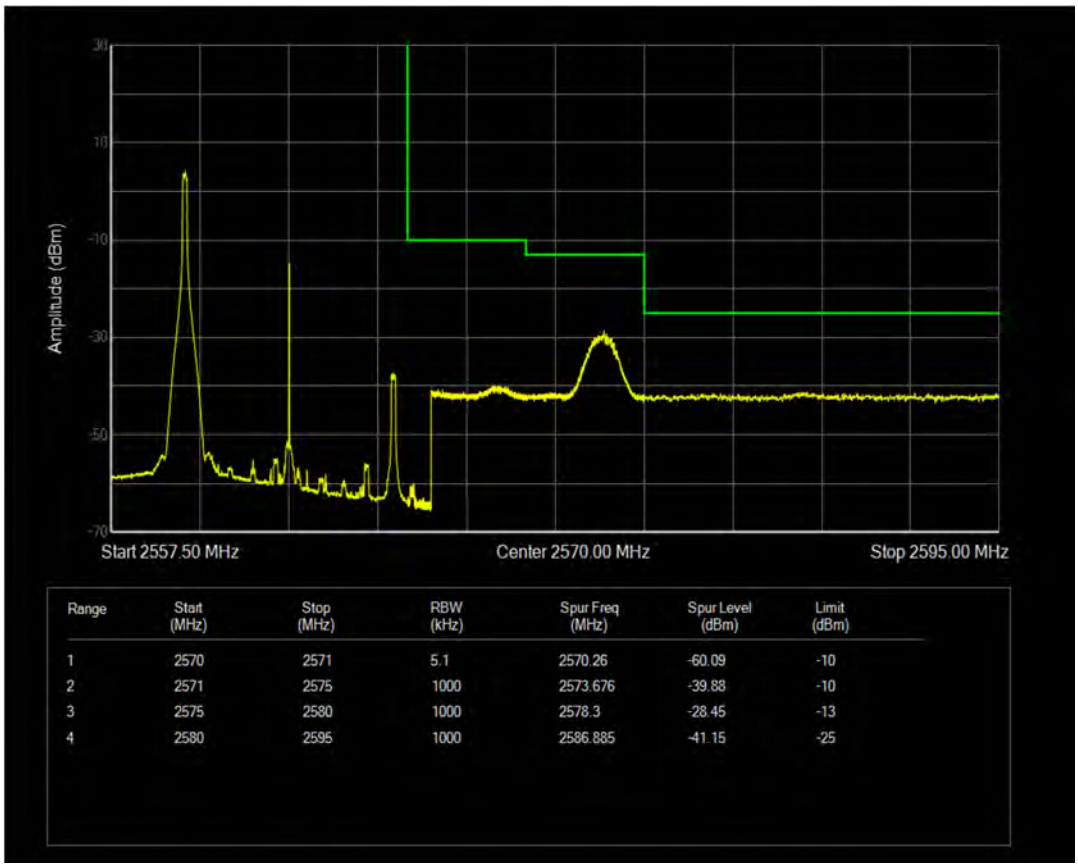


Band7 QAM16 BW=10MHz Channel=20800 RB Size=1 Position=#0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2490	1000	2482.98	-36.95	-25
2	2490	2496	1000	2495.994	-35.73	-13
3	2496	2499	1000	2499	-16.86	-10
4	2499	2500	5.1	2499.997	-42.61	-10

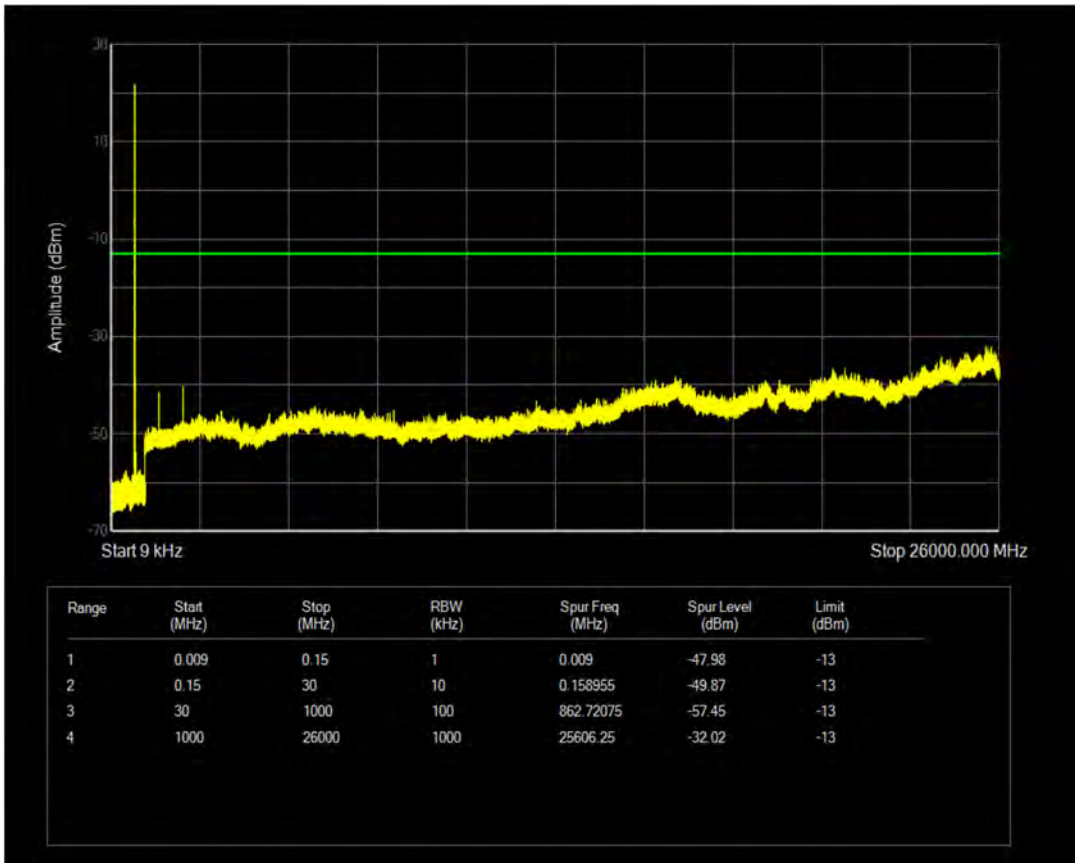
Band7 QAM16 BW=10MHz Channel=21400 RB Size=1 Position=#0



6 Out-of-band emissions

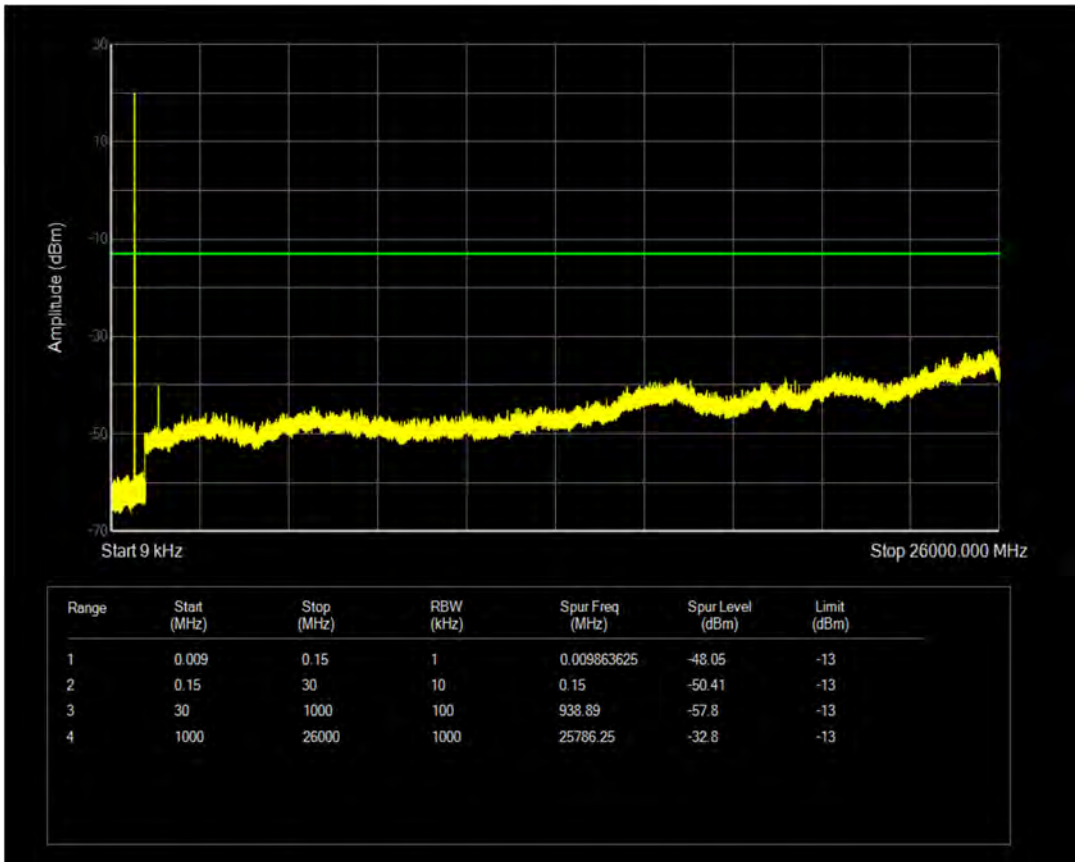
Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
Band12	10	23060	1	#0	QAM16	25786.25	-32.80	-13	PASS
Band12	10	23130	1	#0	QAM16	25606.25	-32.02	-13	PASS
Band13	10	23230	1	#0	QAM16	1562.30	-48.24	-40	PASS
Band17	10	23780	1	#0	QAM16	25810.00	-31.50	-13	PASS
Band17	10	23800	1	#0	QAM16	25795.00	-32.57	-13	PASS
Band2	10	18650	1	#0	QAM16	3701.88	-28.37	-13	PASS
Band2	10	19150	1	#0	QAM16	3801.88	-28.00	-13	PASS
Band38	10	37800	1	#0	QAM16	25839.38	-30.29	-25	PASS
Band38	10	38200	1	#0	QAM16	25396.88	-30.63	-25	PASS
Band40a	10	38750	1	#0	QAM16	4611.25	-41.87	-40	PASS
Band40b	10	39200	1	#0	QAM16	4701.25	-42.68	-40	PASS
Band4	10	20000	1	#0	QAM16	25783.75	-28.85	-13	PASS
Band4	10	20350	1	#0	QAM16	25750.00	-29.61	-13	PASS
Band41	10	39700	1	#0	QAM16	25593.13	-30.76	-25	PASS
Band41	10	41540	1	#0	QAM16	25703.75	-30.97	-25	PASS
Band5	10	20450	1	#0	QAM16	1650.00	-30.53	-13	PASS
Band5	10	20600	1	#0	QAM16	2519.38	-30.60	-13	PASS
Band7	10	20800	1	#0	QAM16	25783.13	-29.94	-25	PASS
Band7	10	21400	1	#0	QAM16	25750.63	-30.86	-25	PASS

Band12 QAM16 BW=10MHz Channel=23130 RB Size=1 Position=#0



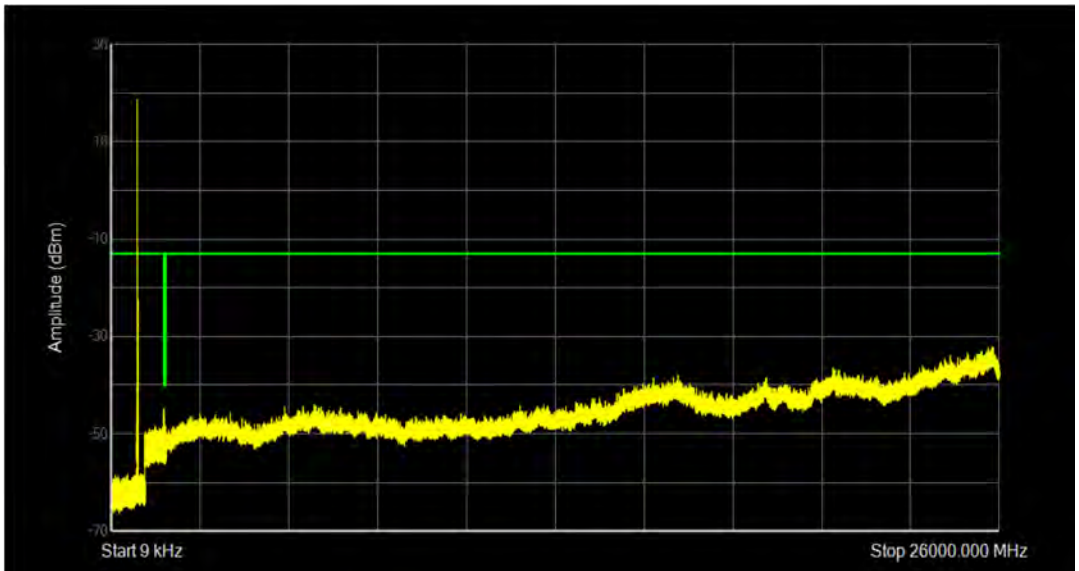
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-47.98	-13
2	0.15	30	10	0.158955	-49.87	-13
3	30	1000	100	862.72075	-57.45	-13
4	1000	26000	1000	25606.25	-32.02	-13

Band12 QAM16 BW=10MHz Channel=23060 RB Size=1 Position=#0



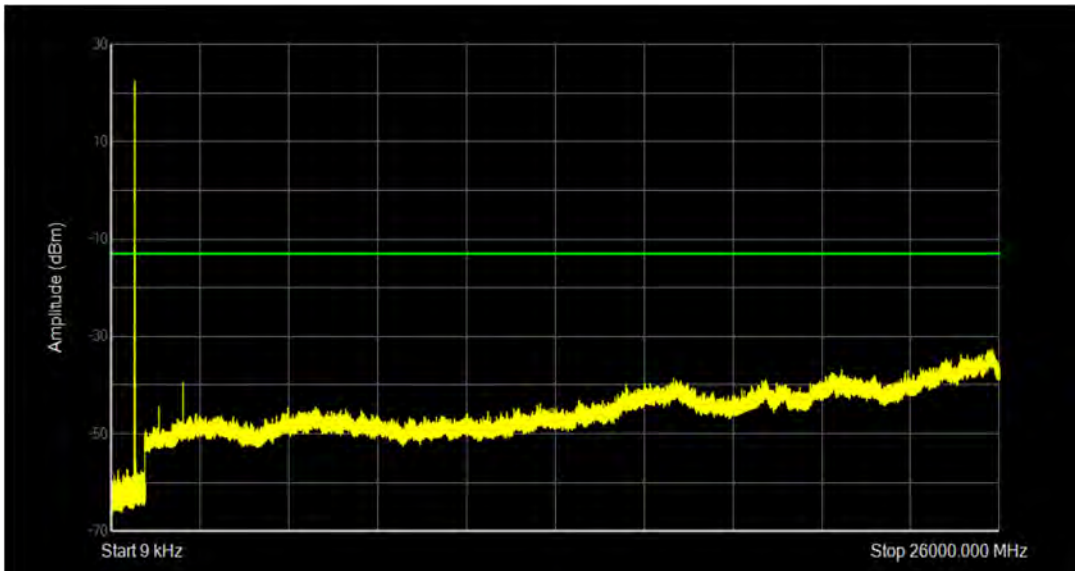
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009863625	-48.05	-13
2	0.15	30	10	0.15	-50.41	-13
3	30	1000	100	938.89	-57.8	-13
4	1000	26000	1000	25786.25	-32.8	-13

Band13 QAM16 BW=10MHz Channel=23230 RB Size=1 Position=#0



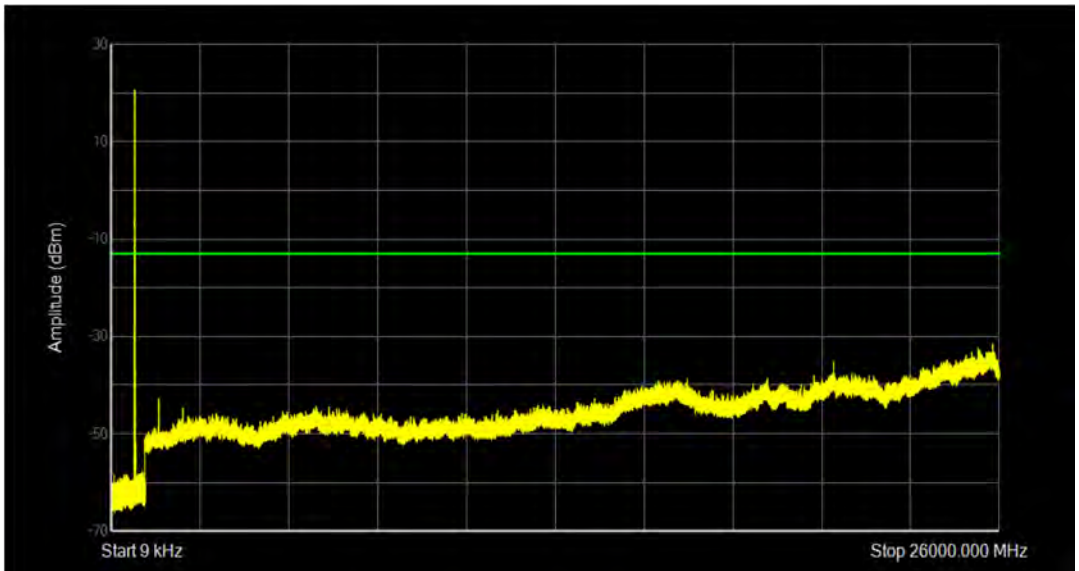
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0090564	-47.59	-13
2	0.15	30	10	0.1694025	-50.13	-13
3	30	1000	100	884.6185	-58.17	-13
4	1000	1559	1000	1555.3665	-44.76	-13
5	1559	1610	1000	1562.298425	-48.24	-40
6	1610	26000	1000	25790.85575	-32.15	-13

Band17 QAM16 BW=10MHz Channel=23800 RB Size=1 Position=#0



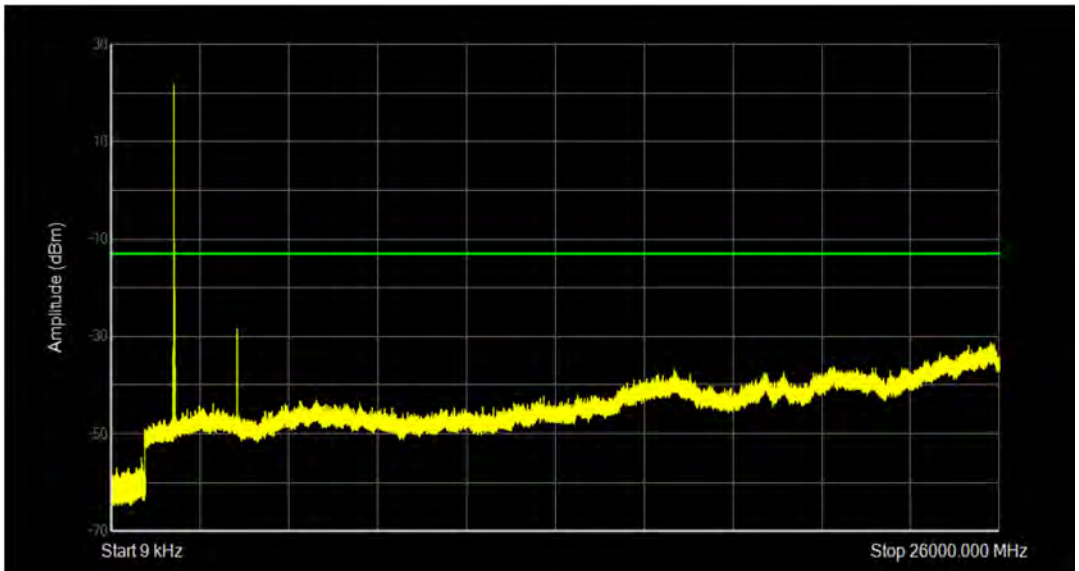
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009024675	-48.12	-13
2	0.15	30	10	0.15671625	-50.83	-13
3	30	1000	100	482.99	-57.34	-13
4	1000	26000	1000	25795	-32.57	-13

Band17 QAM16 BW=10MHz Channel=23780 RB Size=1 Position=#0



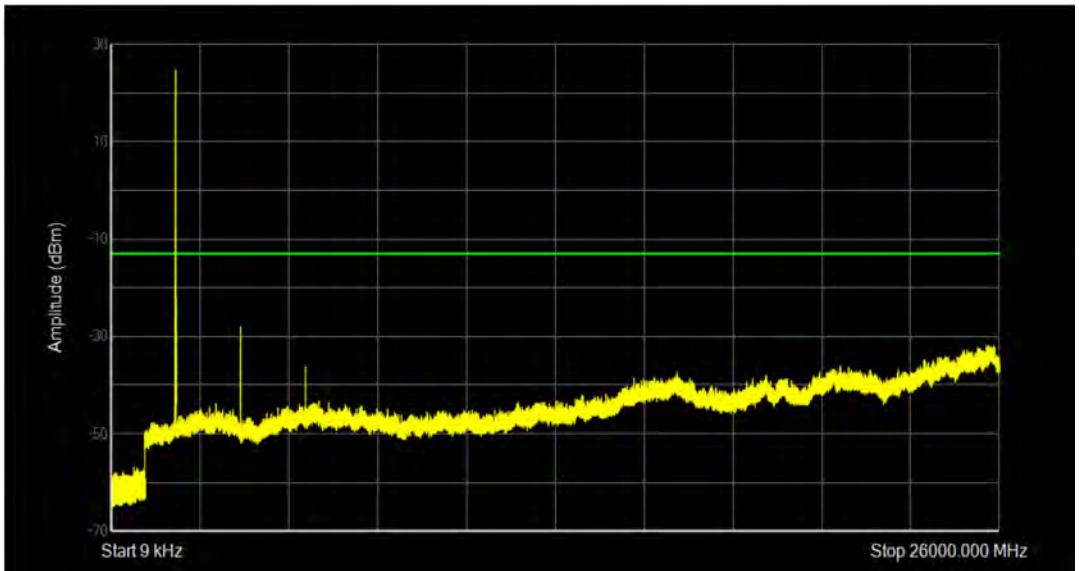
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-47.02	-13
2	0.15	30	10	0.1544775	-48.96	-13
3	30	1000	100	931.8575	-57.66	-13
4	1000	26000	1000	25810	-31.5	-13

Band2 QAM16 BW=10MHz Channel=18650 RB Size=1 Position=#0



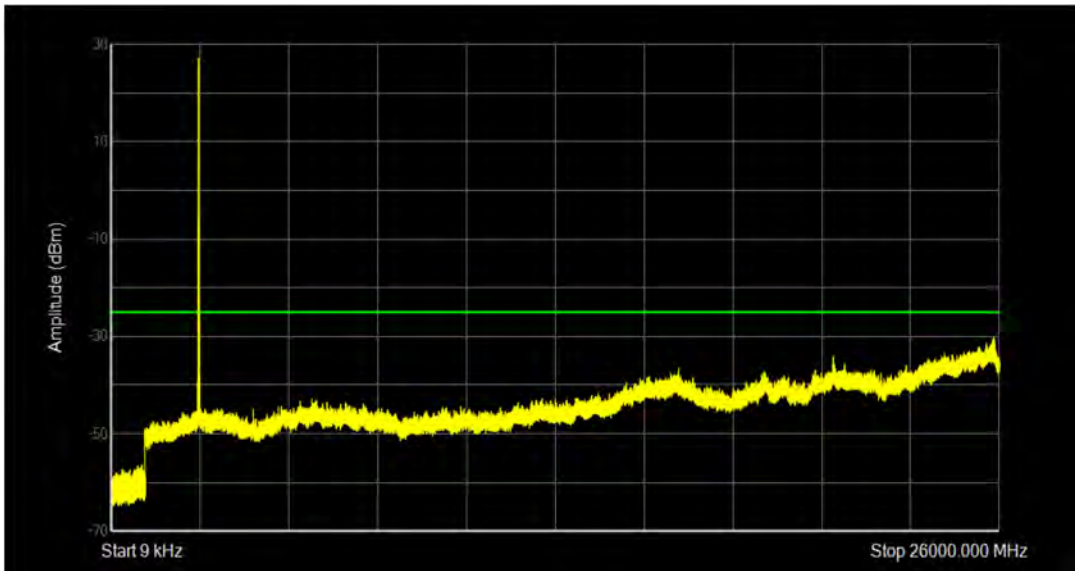
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0094089	-47.1	-13
2	0.15	30	10	0.164925	-49.05	-13
3	30	1000	100	900.40525	-54.9	-13
4	1000	26000	1000	3701.875	-28.37	-13

Band2 QAM16 BW=10MHz Channel=19150 RB Size=1 Position=#0



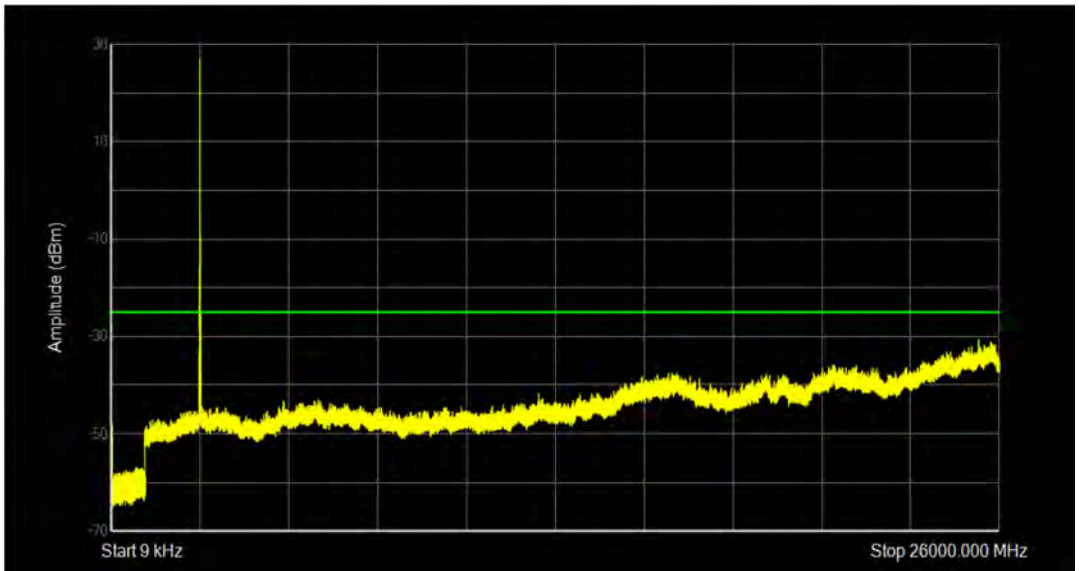
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010138575	-47	-13
2	0.15	30	10	0.15373125	-48.8	-13
3	30	1000	100	678.348	-56.83	-13
4	1000	26000	1000	3801.875	-28	-13

Band38 QAM16 BW=10MHz Channel=37800 RB Size=1 Position=#0



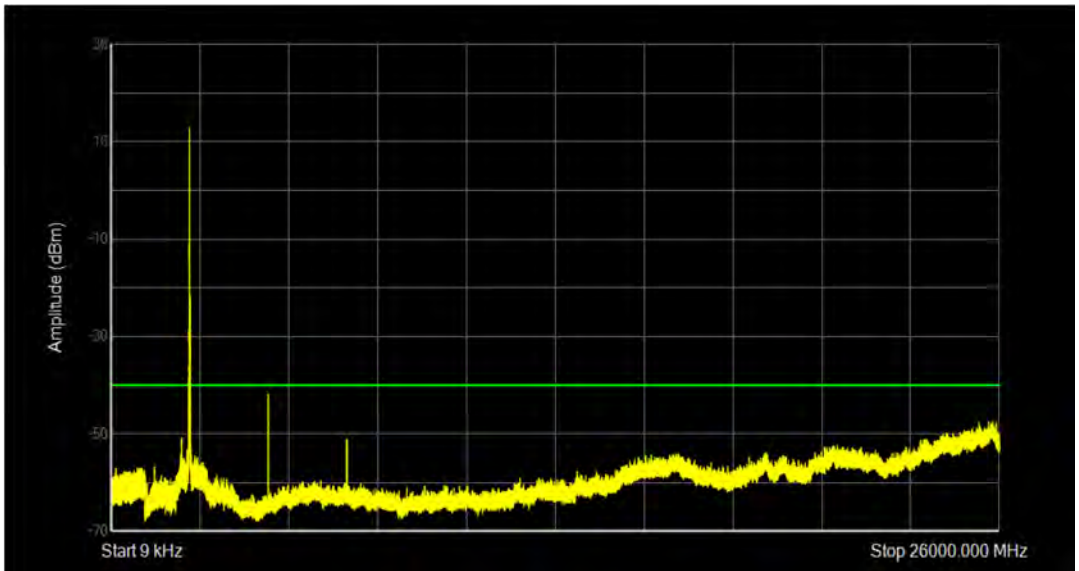
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-46.93	-25
2	0.15	30	10	0.15970125	-49.59	-25
3	30	1000	100	911.80275	-56.44	-25
4	1000	26000	1000	25839.375	-30.29	-25

Band38 QAM16 BW=10MHz Channel=38200 RB Size=1 Position=#0



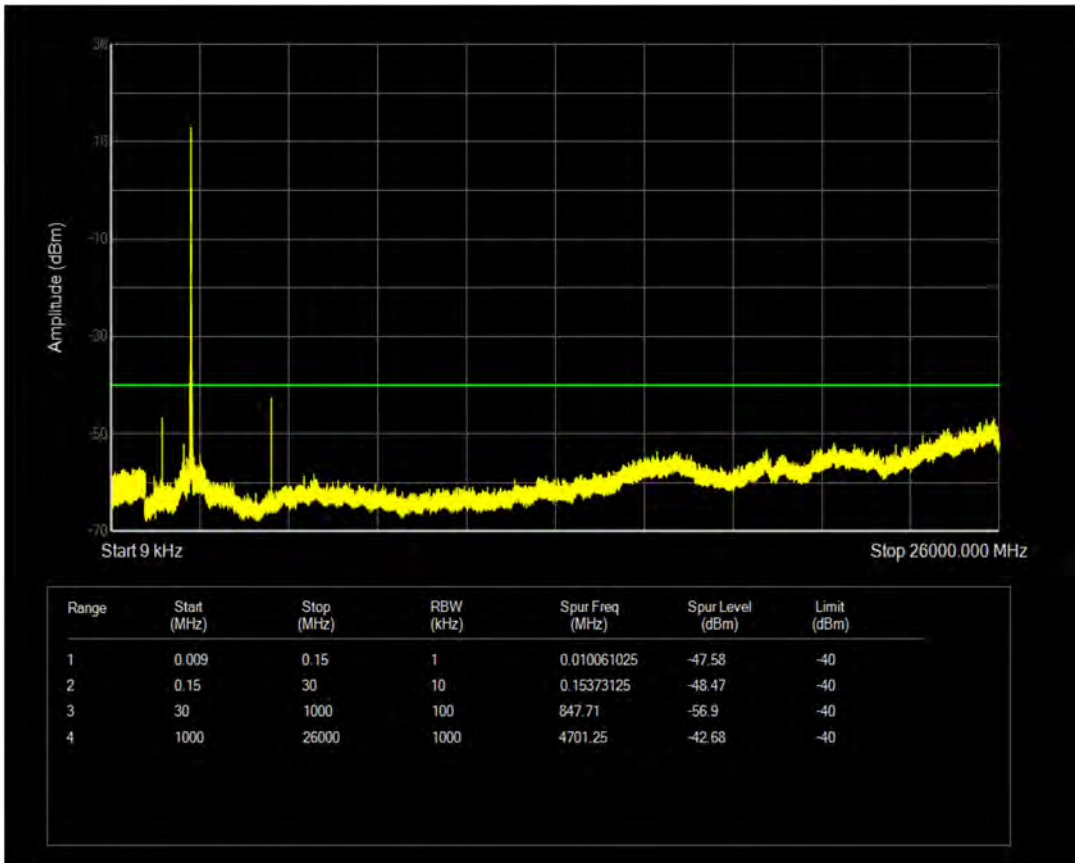
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009320775	-47.51	-25
2	0.15	30	10	0.15	-49.61	-25
3	30	1000	100	49.4	-48.02	-25
4	1000	26000	1000	25396.875	-30.63	-25

Band40a QAM16 BW=10MHz Channel=38750 RB Size=1 Position=#0



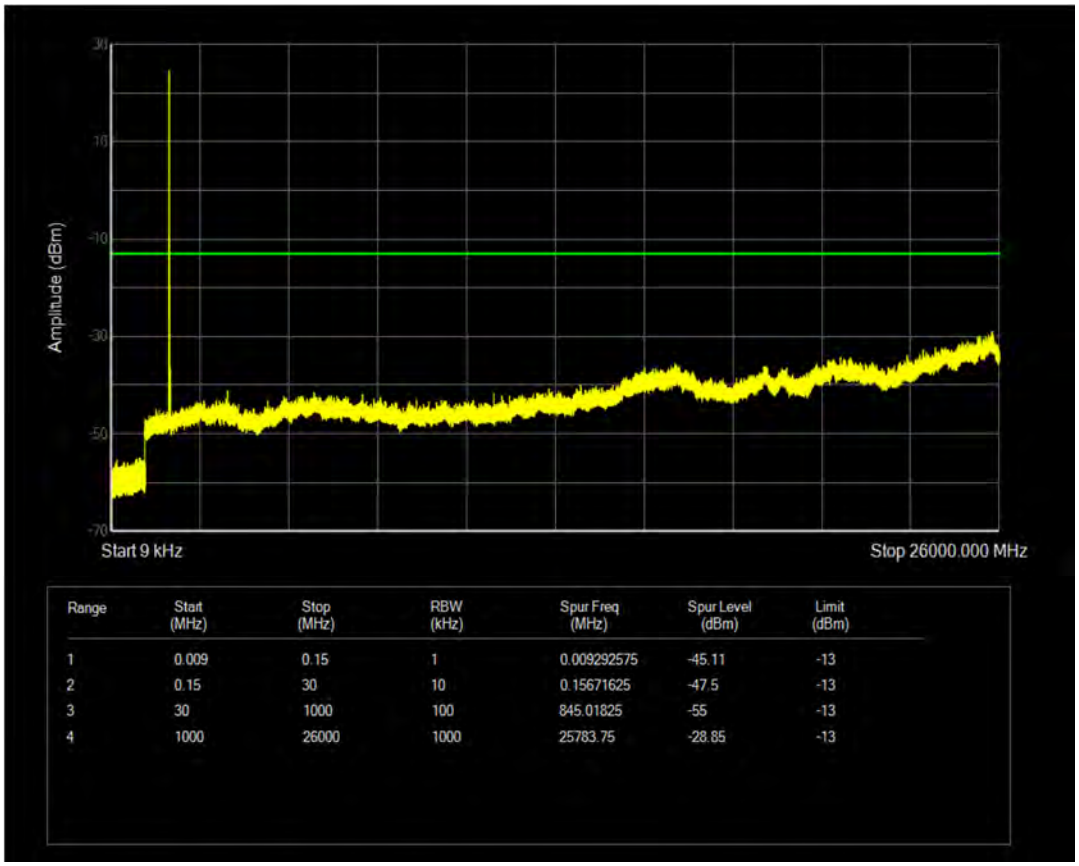
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0093948	-46.03	-40
2	0.15	30	10	0.15	-48.84	-40
3	30	1000	100	776.92425	-56.96	-40
4	1000	26000	1000	4611.25	-41.87	-40

Band40b QAM16 BW=10MHz Channel=39200 RB Size=1 Position=#0



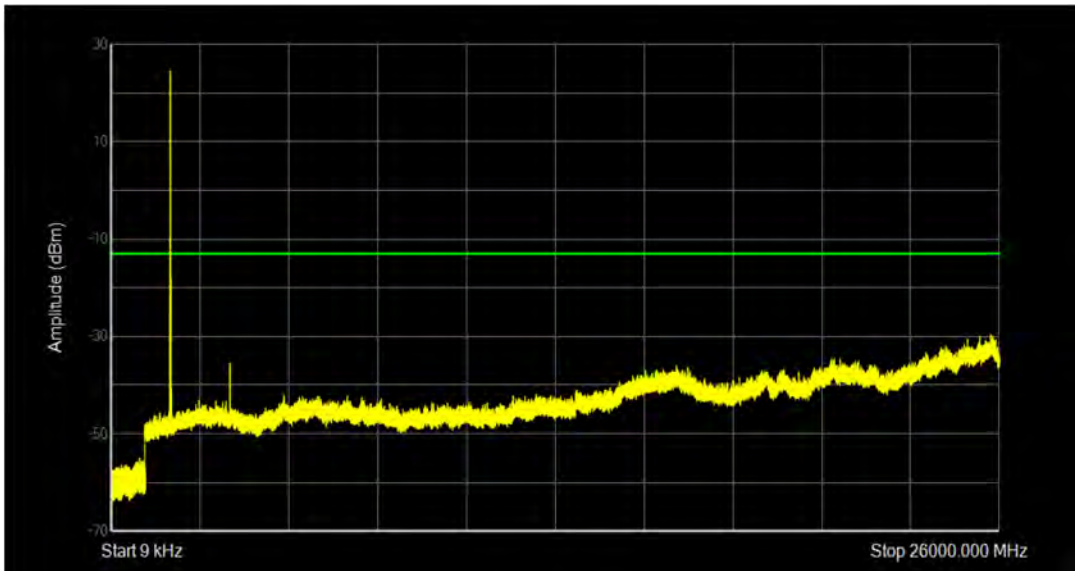
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010061025	-47.58	-40
2	0.15	30	10	0.15373125	-48.47	-40
3	30	1000	100	847.71	-56.9	-40
4	1000	26000	1000	4701.25	-42.68	-40

Band4 QAM16 BW=10MHz Channel=20000 RB Size=1 Position=#0



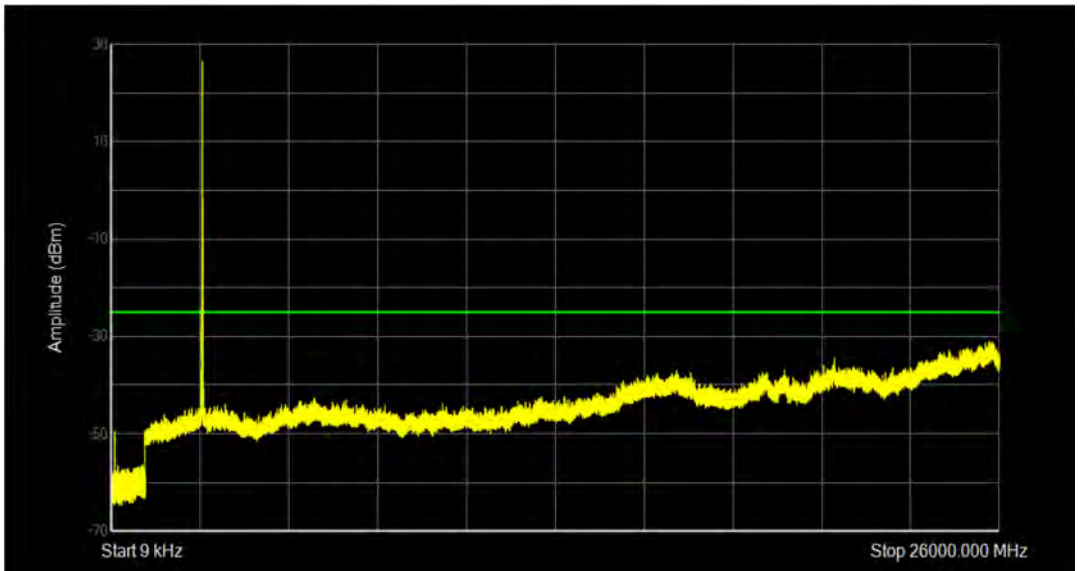
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009292575	-45.11	-13
2	0.15	30	10	0.15671625	-47.5	-13
3	30	1000	100	845.01825	-55	-13
4	1000	26000	1000	25783.75	-28.85	-13

Band4 QAM16 BW=10MHz Channel=20350 RB Size=1 Position=#0



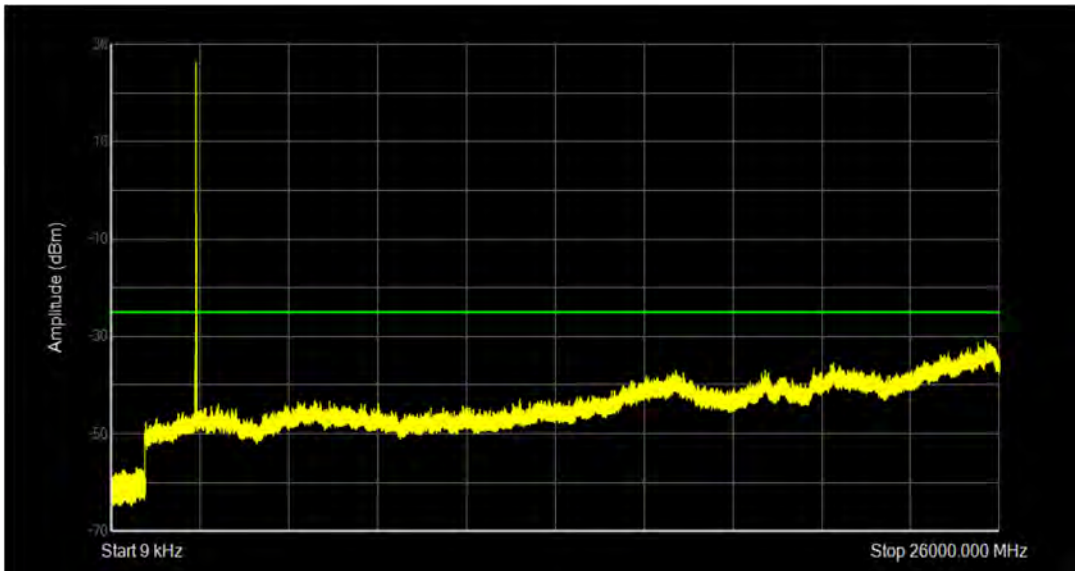
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01026195	-46.53	-13
2	0.15	30	10	0.15	-46.57	-13
3	30	1000	100	852.4145	-55.05	-13
4	1000	26000	1000	25750	-29.61	-13

Band41 QAM16 BW=10MHz Channel=41540 RB Size=1 Position=#0



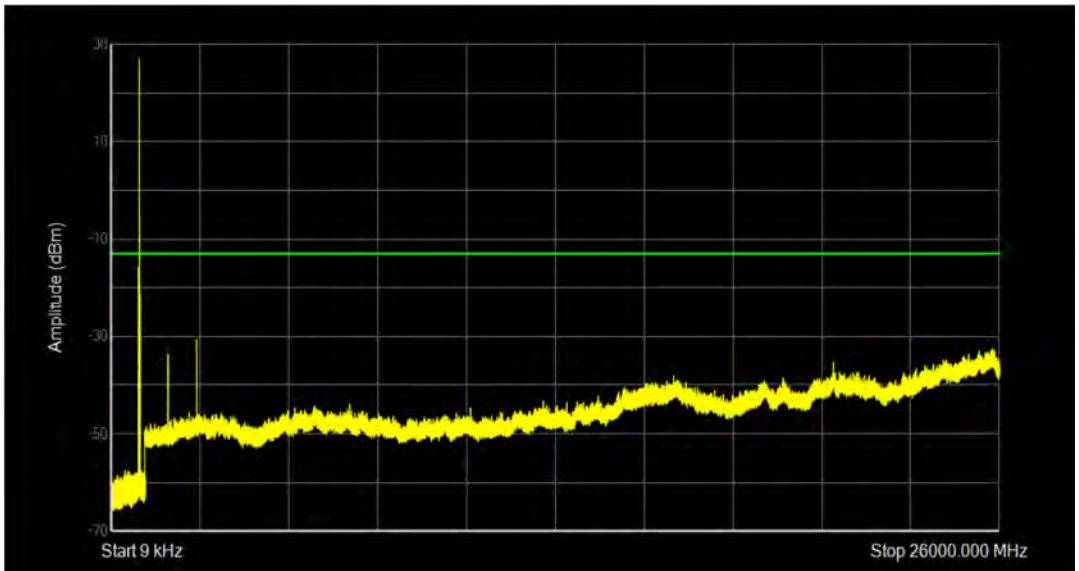
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0090564	-46.26	-25
2	0.15	30	10	0.152985	-47.09	-25
3	30	1000	100	119.36125	-49.55	-25
4	1000	26000	1000	25703.75	-30.97	-25

Band41 QAM16 BW=10MHz Channel=39700 RB Size=1 Position=#0



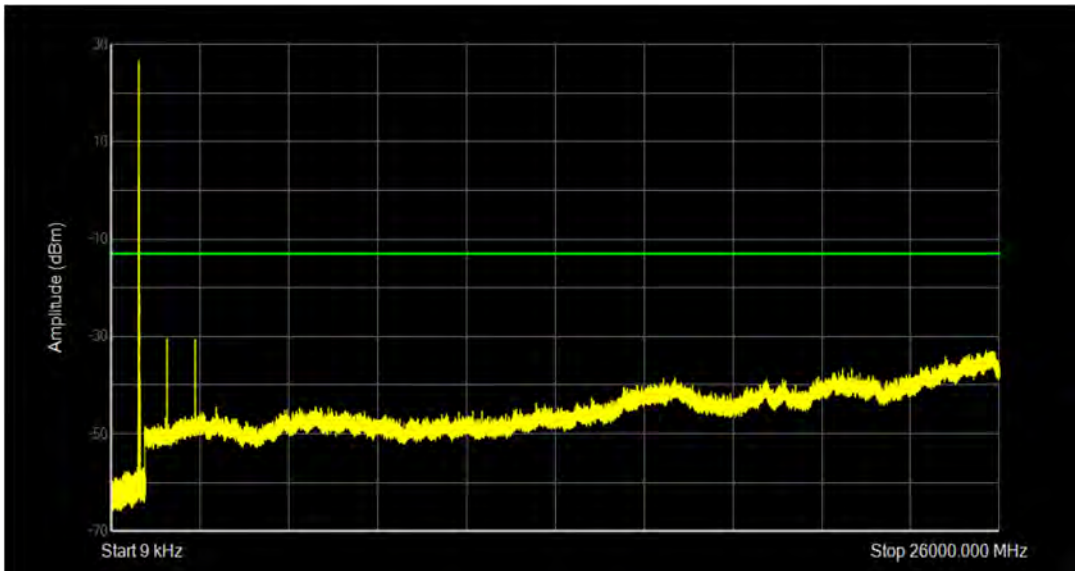
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009341925	-47.33	-25
2	0.15	30	10	0.182835	-49.51	-25
3	30	1000	100	753.135	-56.85	-25
4	1000	26000	1000	25593.125	-30.76	-25

Band5 QAM16 BW=10MHz Channel=20600 RB Size=1 Position=#0



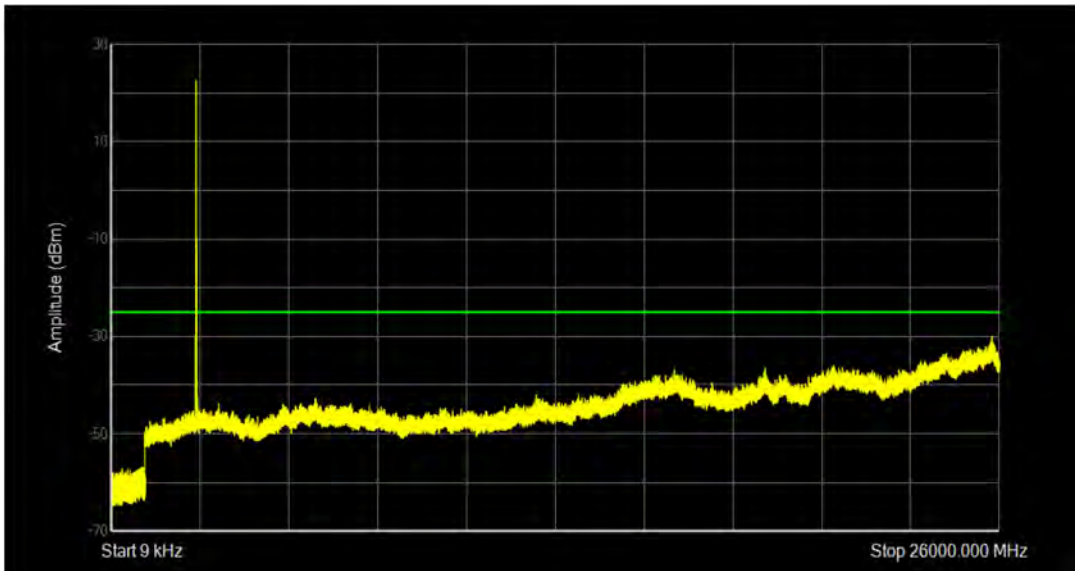
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01098105	-46.88	-13
2	0.15	30	10	0.17611875	-49.53	-13
3	30	1000	100	416.90875	-57.5	-13
4	1000	26000	1000	2519.375	-30.6	-13

Band5 QAM16 BW=10MHz Channel=20450 RB Size=1 Position=#0



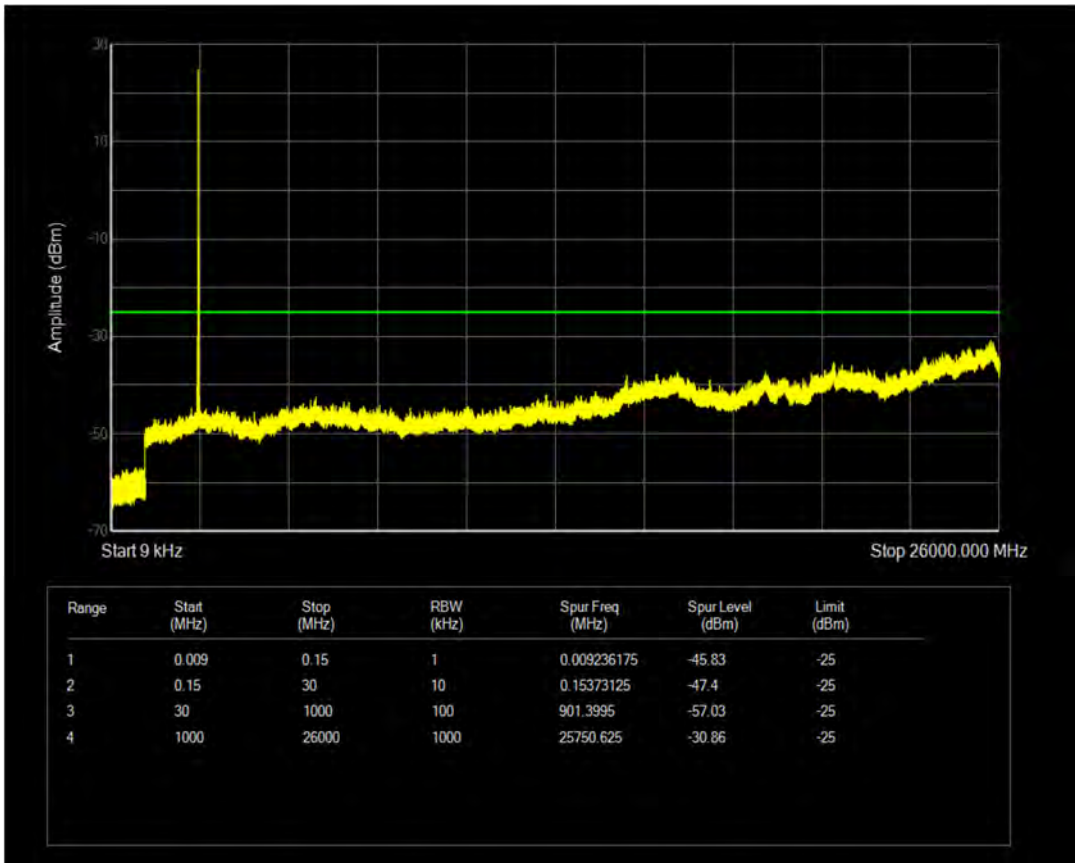
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0098037	-48.65	-13
2	0.15	30	10	0.15	-49.19	-13
3	30	1000	100	779.5675	-56.84	-13
4	1000	26000	1000	1650	-30.53	-13

Band7 QAM16 BW=10MHz Channel=20800 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	0.0131595	-46.67	-25
2	0.15	30	10	0.1544775	-47.53	-25
3	30	1000	100	953.246	-56.85	-25
4	1000	26000	1000	25783.125	-29.94	-25

Band7 QAM16 BW=10MHz Channel=21400 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	0.009236175	-45.83	-25
2	0.15	30	10	0.15373125	-47.4	-25
3	30	1000	100	901.3995	-57.03	-25
4	1000	26000	1000	25750.625	-30.86	-25