Appendix F: Test Data for E-UTRA Band 13

Product Name: POS Terminal

Test Model: TP50

F.1 Effective (Isotropic) Radiated Power Output Data

Test Result

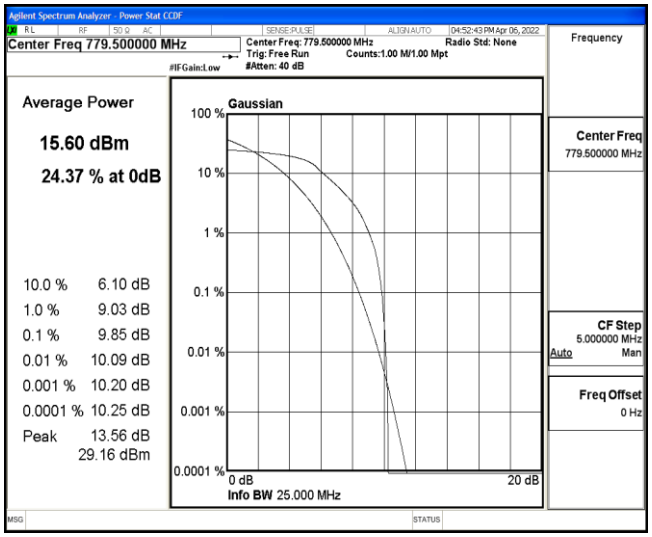
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	21.57	PASS
Band13	5MHz	23205	QPSK	1	5	Low	21.31	PASS
Band13	5MHz	23205	QPSK	6	0	Low	20.46	PASS
Band13	5MHz	23230	QPSK	1	0	Low	21.49	PASS
Band13	5MHz	23230	QPSK	1	5	Low	21.28	PASS
Band13	5MHz	23230	QPSK	6	0	Low	20.49	PASS
Band13	5MHz	23255	QPSK	1	0	High	21.57	PASS
Band13	5MHz	23255	QPSK	1	5	High	21.34	PASS
Band13	5MHz	23255	QPSK	6	0	High	20.26	PASS
Band13	5MHz	23205	16QAM	1	0	Low	21.67	PASS
Band13	5MHz	23205	16QAM	1	5	Low	21.50	PASS
Band13	5MHz	23205	16QAM	6	0	Low	20.53	PASS
Band13	5MHz	23230	16QAM	1	0	Low	21.48	PASS
Band13	5MHz	23230	16QAM	1	5	Low	21.25	PASS
Band13	5MHz	23230	16QAM	6	0	Low	20.49	PASS
Band13	5MHz	23255	16QAM	1	0	High	21.22	PASS
Band13	5MHz	23255	16QAM	1	5	High	20.94	PASS
Band13	5MHz	23255	16QAM	6	0	High	20.39	PASS
Band13	10MHz	23230	QPSK	1	0	Low	21.45	PASS
Band13	10MHz	23230	QPSK	1	5	Low	21.28	PASS
Band13	10MHz	23230	QPSK	6	0	Low	20.40	PASS
Band13	10MHz	23230	16QAM	1	0	Low	21.61	PASS
Band13	10MHz	23230	16QAM	1	5	Low	21.38	PASS
Band13	10MHz	23230	16QAM	6	0	Low	20.50	PASS

F.2 Peak-to-Average Ratio(CCDF)

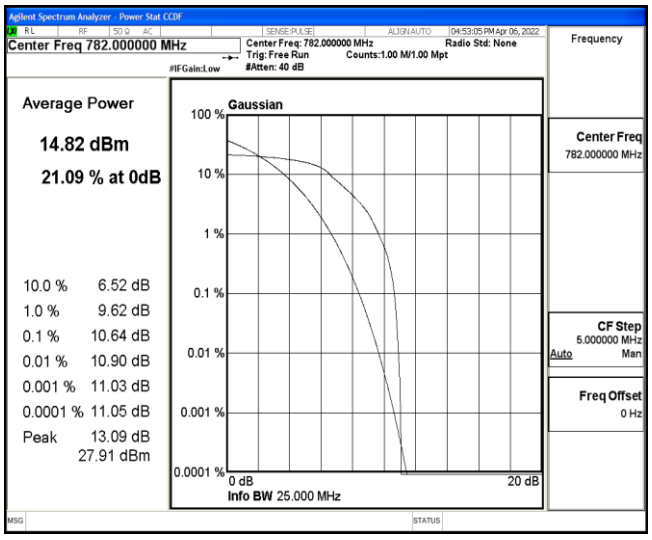
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	23205	QPSK	6	0	Low	9.85	<=13	PASS
Band13	5MHz	23230	QPSK	6	0	Low	10.64	<=13	PASS
Band13	5MHz	23255	QPSK	6	0	Low	11.08	<=13	PASS
Band13	5MHz	23205	16QAM	6	0	Low	8.48	<=13	PASS
Band13	5MHz	23230	16QAM	6	0	Low	9.80	<=13	PASS
Band13	5MHz	23255	16QAM	6	0	Low	11.37	<=13	PASS
Band13	10MHz	23230	QPSK	6	0	Low	9.80	<=13	PASS
Band13	10MHz	23230	16QAM	6	0	Low	8.46	<=13	PASS

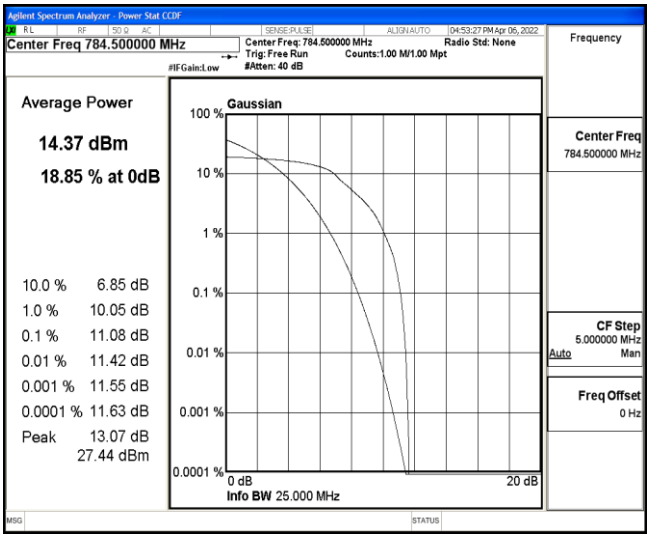
Test Graphs



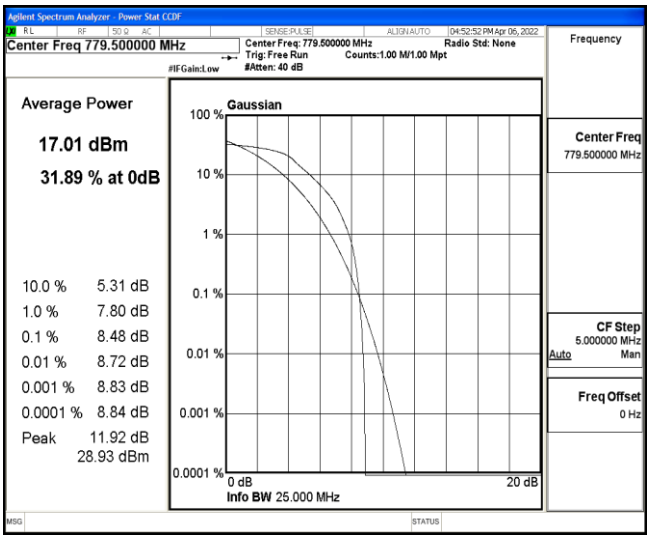
Band13-5MHz-QPSK-23205-6-0-Low-9.85-<=13-PASS



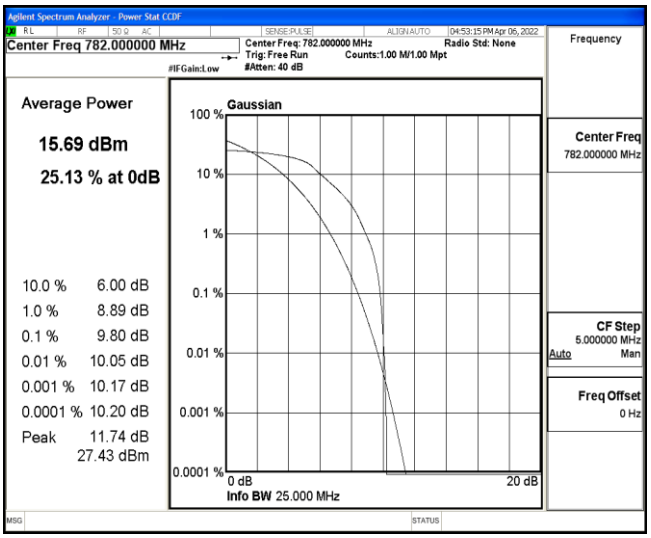
Band13-5MHz-QPSK-23230-6-0-Low-10.64-<=13-PASS



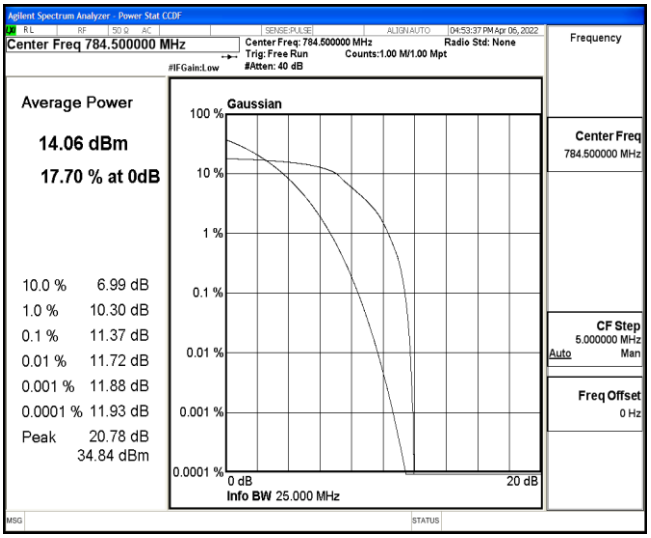
Band13-5MHz-QPSK-23255-6-0-Low-11.08-<=13-PASS



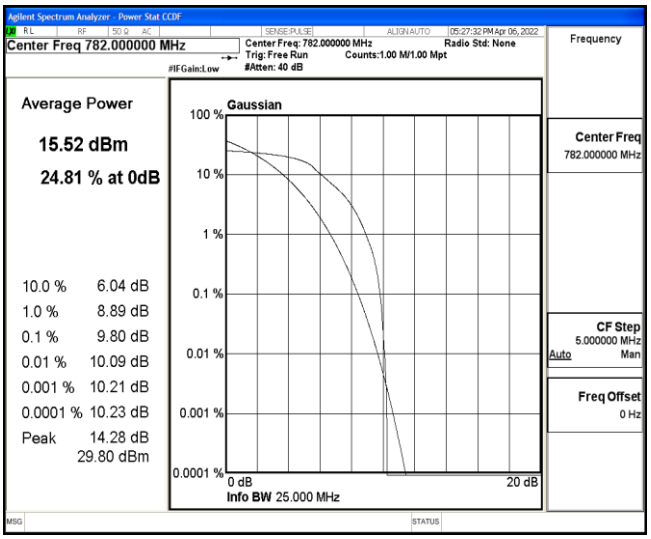
Band13-5MHz-16QAM-23205-6-0-Low-8.48-<=13-PASS



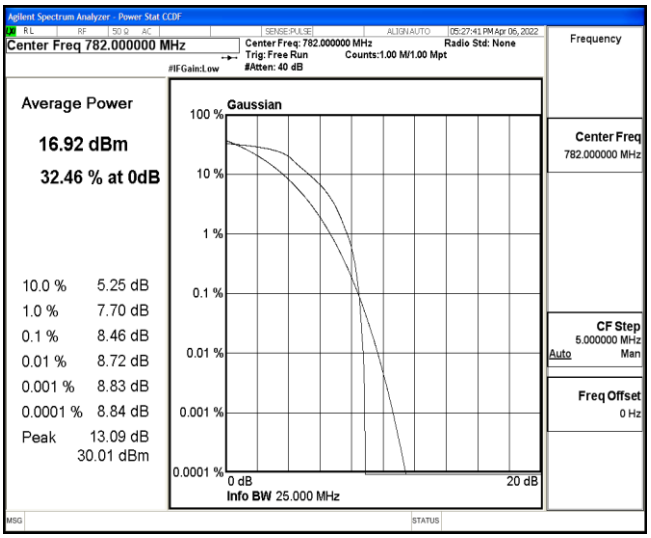
Band13-5MHz-16QAM-23230-6-0-Low-9.80-<=13-PASS



Band13-5MHz-16QAM-23255-6-0-Low-11.37-<=13-PASS



Band13-10MHz-QPSK-23230-6-0-Low-9.80-<=13-PASS



Band13-10MHz-16QAM-23230-6-0-Low-8.46-<=13-PASS

F.3 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.4954	4.495	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.5290	4.529	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.5162	4.516	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.4921	4.492	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.5197	4.520	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.5377	4.538	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.9475	8.947	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.9509	8.951	PASS

Test Graphs

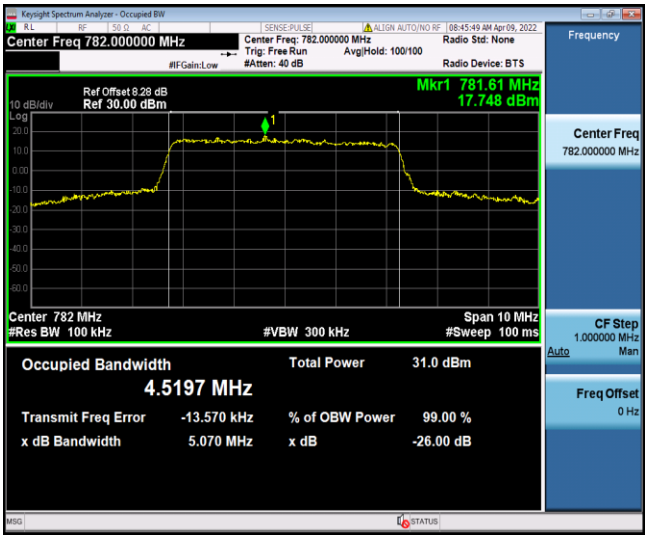
Band13-5MHz-QPSK-23205-25RB#0-4.4954

Band13-5MHz-QPSK-23230-25RB#0-4.5290

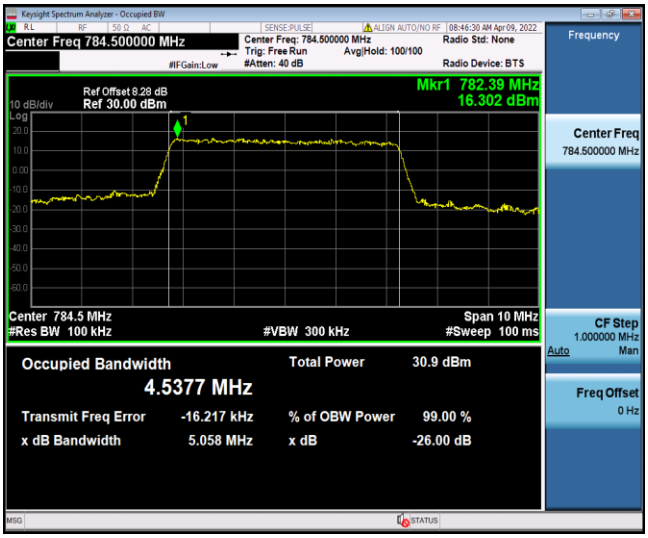
Band13-5MHz-QPSK-23255-25RB#0-4.5162

Band13-5MHz-16QAM-23205-25RB#0-4.4921

Band13-5MHz-16QAM-23230-25RB#0-4.5197



Band13-5MHz-16QAM-23255-25RB#0-4.5377



Band13-10MHz-QPSK-23230-50RB#0-8.9475

Band13-10MHz-16QAM-23230-50RB#0-8.9509

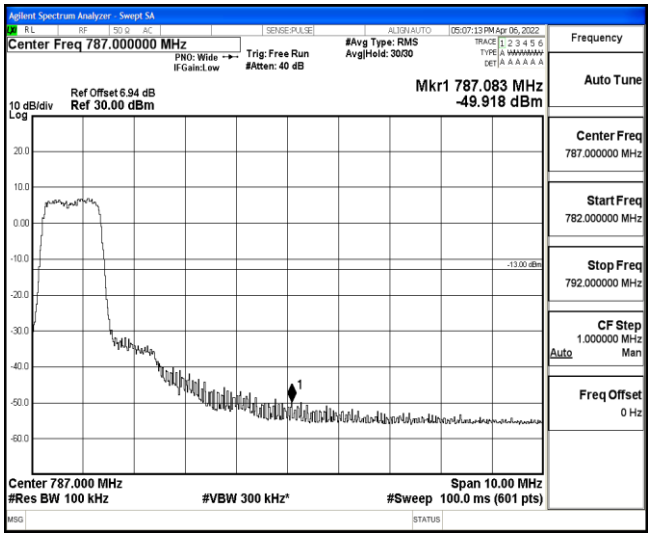
F.4 Band Edge

Test Result

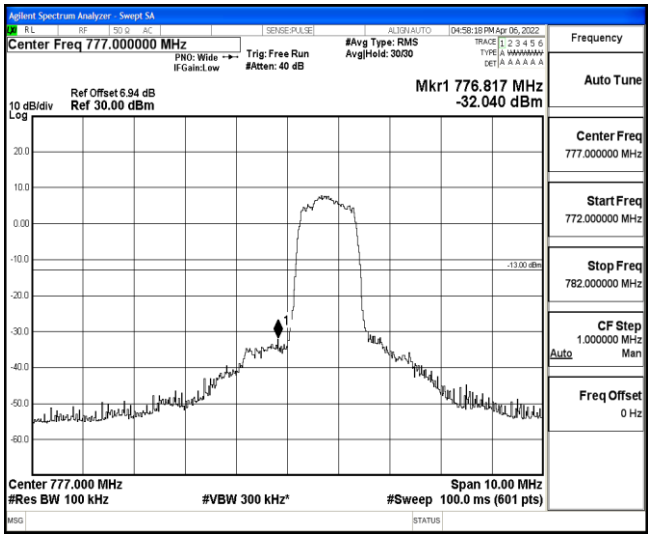
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band13	5MHz	23205	QPSK	6	0	Low	-31.81	PASS
Band13	5MHz	23255	QPSK	6	0	Low	-49.92	PASS
Band13	5MHz	23205	16QAM	6	0	Low	-32.04	PASS
Band13	5MHz	23255	16QAM	6	0	Low	-49.99	PASS

Test Graphs

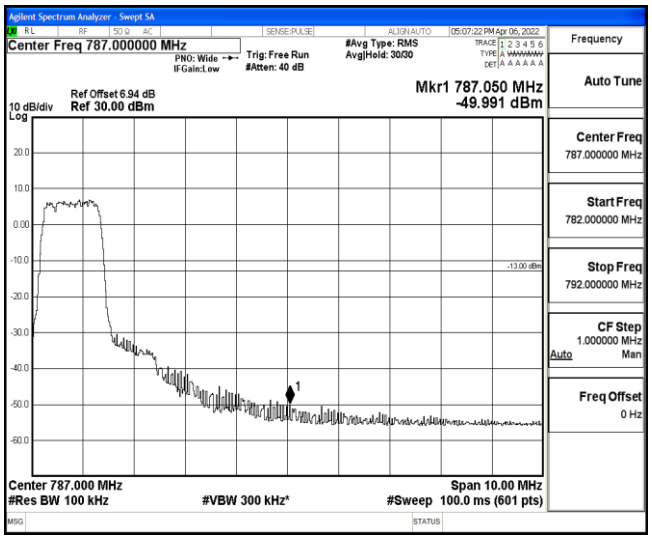
Band13-5MHz-QPSK-23205-6-0-Low--31.81-PASS



Band13-5MHz-QPSK-23255-6-0-Low--49.92-PASS



Band13-5MHz-16QAM-23205-6-0-Low--32.04-PASS



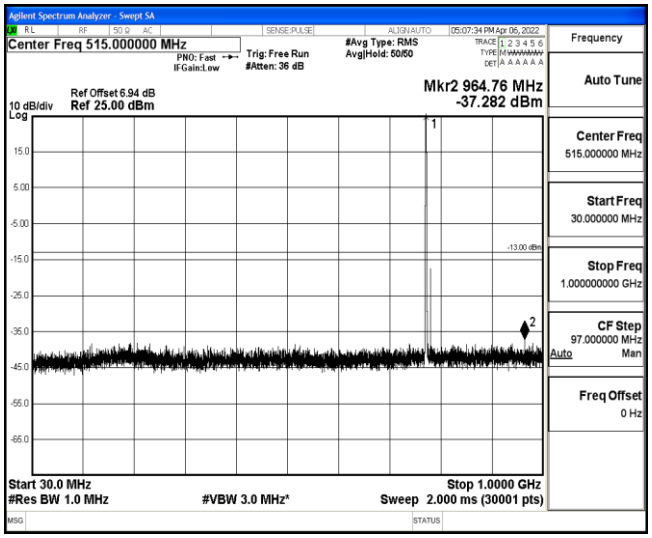
Band13-5MHz-16QAM-23255-6-0-Low--49.99-PASS

F.5 Conducted Spurious Emission

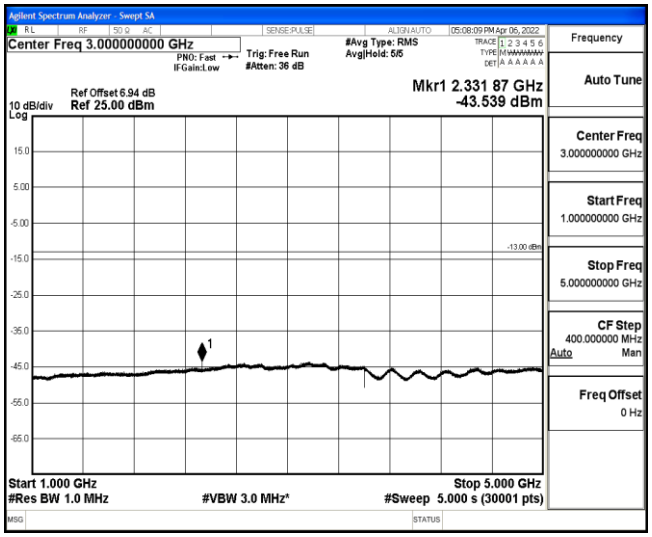
Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Start Freq	Stop Freq	Result (dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	30	1000	-37.28	PASS
Band13	5MHz	23205	QPSK	1	0	Low	1000	5000	-43.54	PASS
Band13	5MHz	23205	QPSK	1	0	Low	5000	12000	-59.4	PASS
Band13	5MHz	23205	QPSK	1	0	Low	12000	26500	-44.6	PASS
Band13	5MHz	23230	QPSK	1	0	Low	30	1000	-37.97	PASS
Band13	5MHz	23230	QPSK	1	0	Low	1000	5000	-43.13	PASS
Band13	5MHz	23230	QPSK	1	0	Low	5000	12000	-59.45	PASS
Band13	5MHz	23230	QPSK	1	0	Low	12000	26500	-44.61	PASS
Band13	5MHz	23255	QPSK	1	0	High	30	1000	-37.43	PASS
Band13	5MHz	23255	QPSK	1	0	High	1000	5000	-43.26	PASS
Band13	5MHz	23255	QPSK	1	0	High	5000	12000	-59.44	PASS
Band13	5MHz	23255	QPSK	1	0	High	12000	26500	-44.59	PASS
Band13	5MHz	23205	16QAM	1	0	Low	30	1000	-35.13	PASS
Band13	5MHz	23205	16QAM	1	0	Low	1000	5000	-43.69	PASS
Band13	5MHz	23205	16QAM	1	0	Low	5000	12000	-59.19	PASS
Band13	5MHz	23205	16QAM	1	0	Low	12000	26500	-44.74	PASS
Band13	5MHz	23230	16QAM	1	0	Low	30	1000	-36.7	PASS
Band13	5MHz	23230	16QAM	1	0	Low	1000	5000	-43.6	PASS
Band13	5MHz	23230	16QAM	1	0	Low	5000	12000	-59.4	PASS
Band13	5MHz	23230	16QAM	1	0	Low	12000	26500	-44.68	PASS
Band13	5MHz	23255	16QAM	1	0	High	30	1000	-37.78	PASS
Band13	5MHz	23255	16QAM	1	0	High	1000	5000	-43.34	PASS
Band13	5MHz	23255	16QAM	1	0	High	5000	12000	-59.55	PASS
Band13	5MHz	23255	16QAM	1	0	High	12000	26500	-44.51	PASS

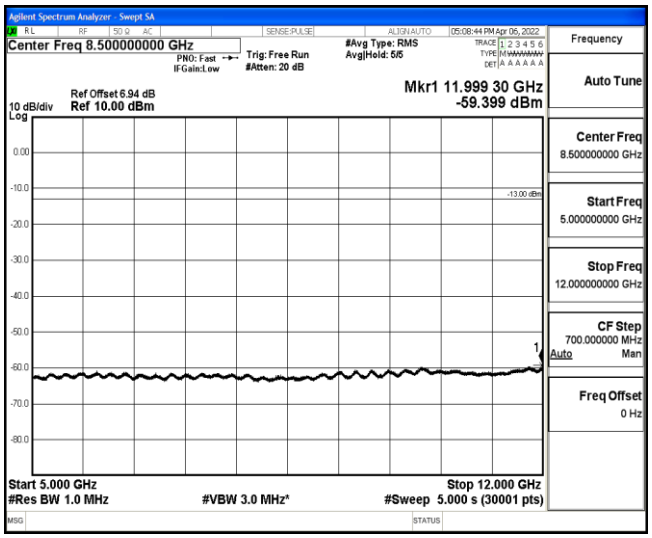
Test Graphs



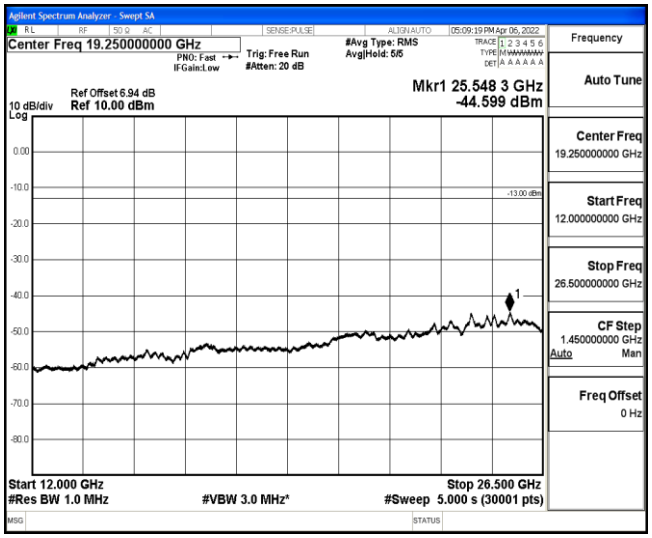
Band13-5MHz-QPSK-23205-1-0-Low-30-1000--37.28-PASS



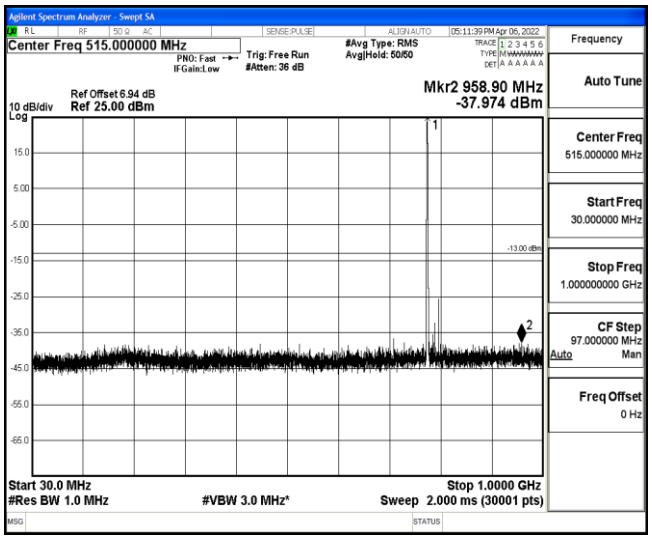
Band13-5MHz-QPSK-23205-1-0-Low-1000-5000--43.54-PASS



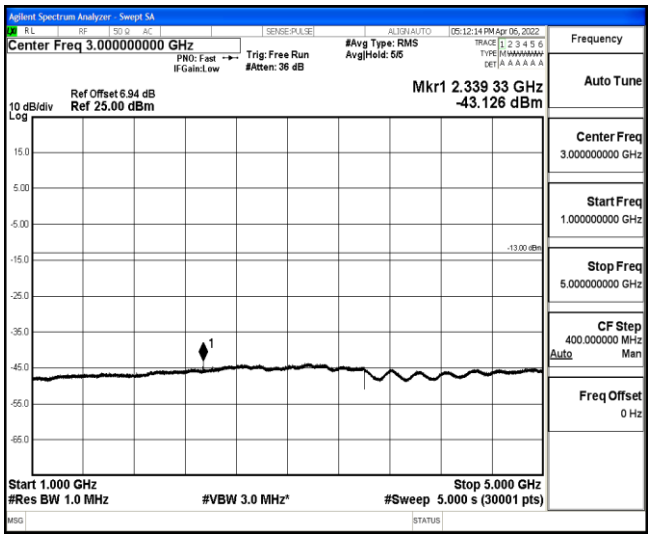
Band13-5MHz-QPSK-23205-1-0-Low-5000-12000--59.4-PASS



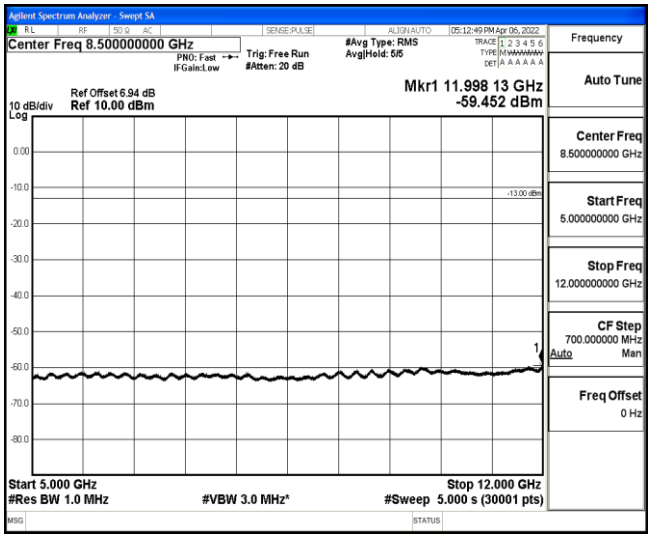
Band13-5MHz-QPSK-23205-1-0-Low-12000-26500--44.6-PASS



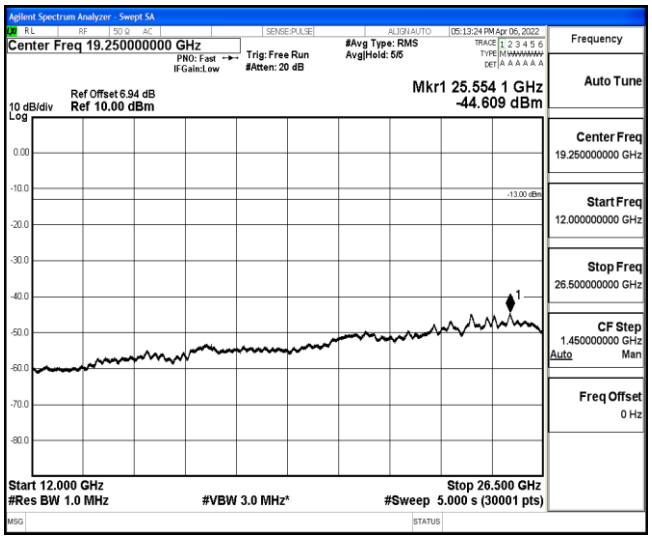
Band13-5MHz-QPSK-23230-1-0-Low-30-1000--37.97-PASS



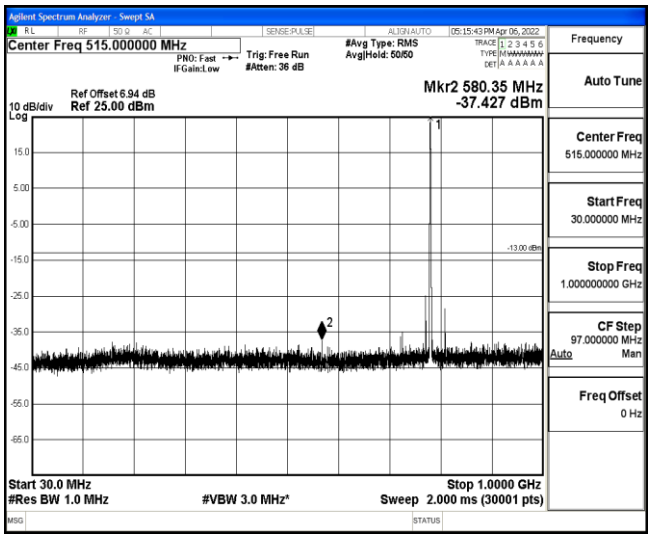
Band13-5MHz-QPSK-23230-1-0-Low-1000-5000--43.13-PASS



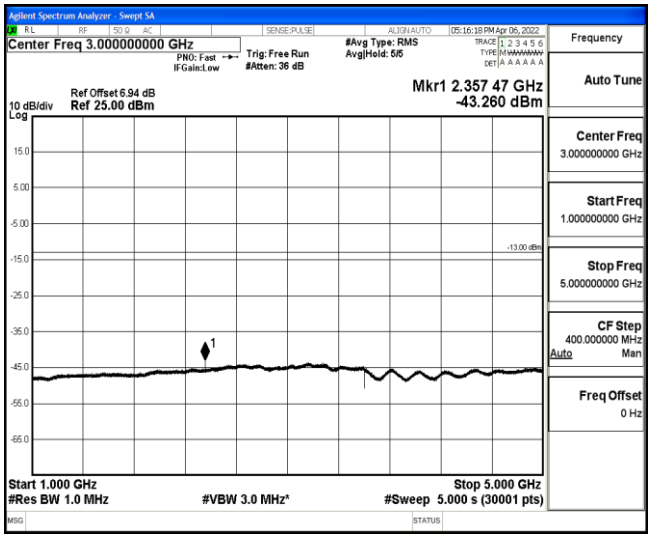
Band13-5MHz-QPSK-23230-1-0-Low-5000-12000--59.45-PASS



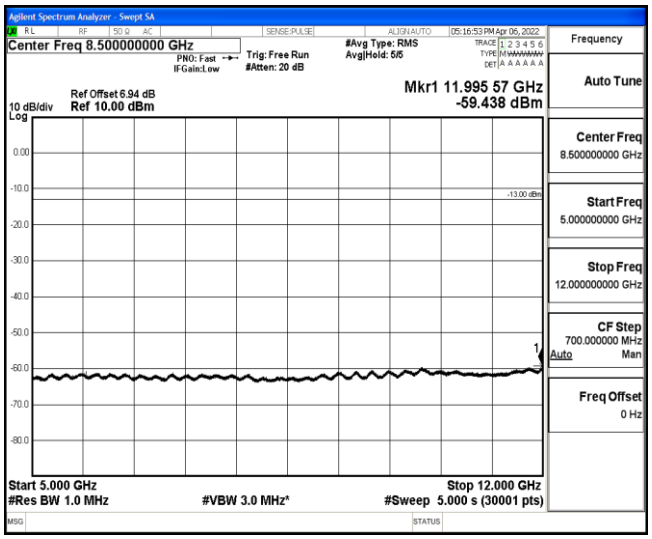
Band13-5MHz-QPSK-23230-1-0-Low-12000-26500--44.61-PASS



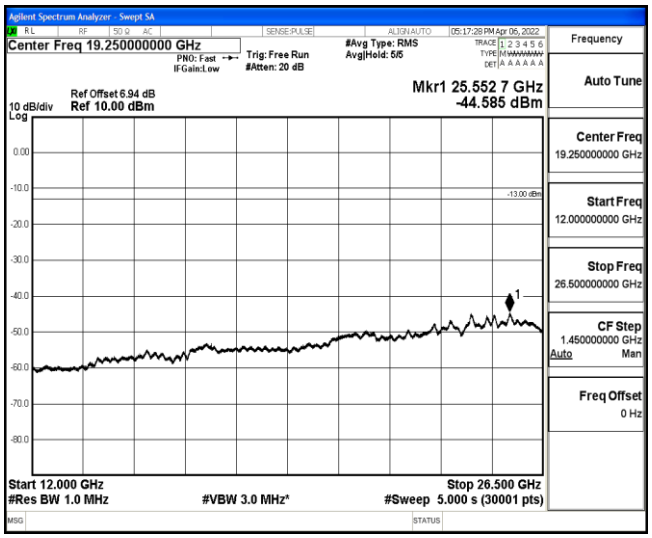
Band13-5MHz-QPSK-23255-1-0-High-30-1000--37.43-PASS



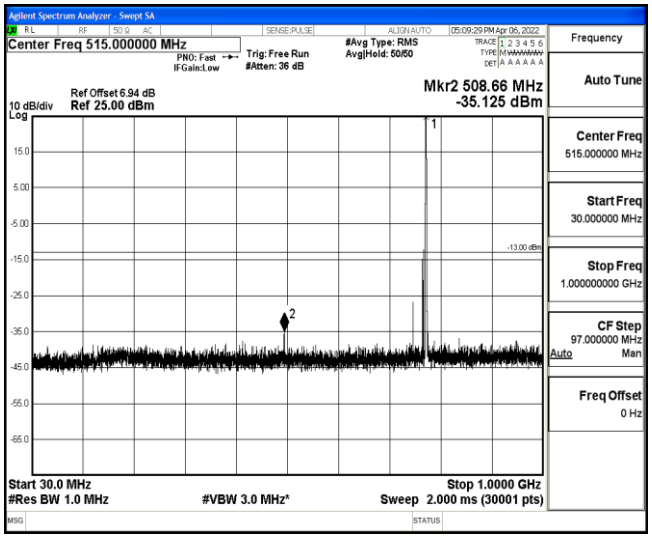
Band13-5MHz-QPSK-23255-1-0-High-1000-5000--43.26-PASS



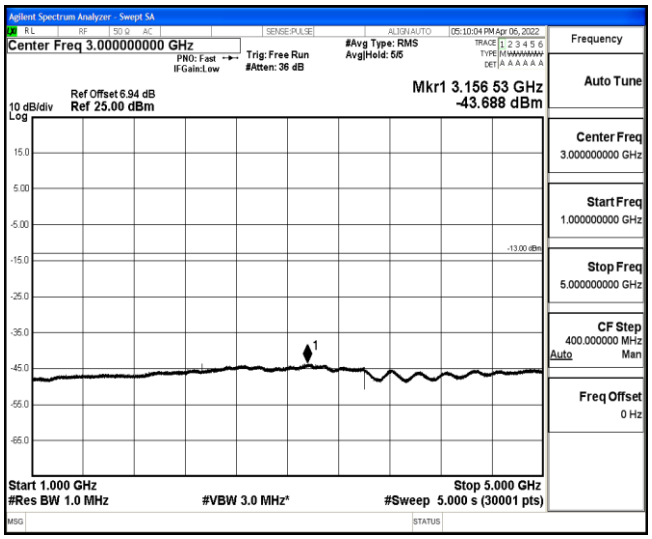
Band13-5MHz-QPSK-23255-1-0-High-5000-12000--59.44-PASS



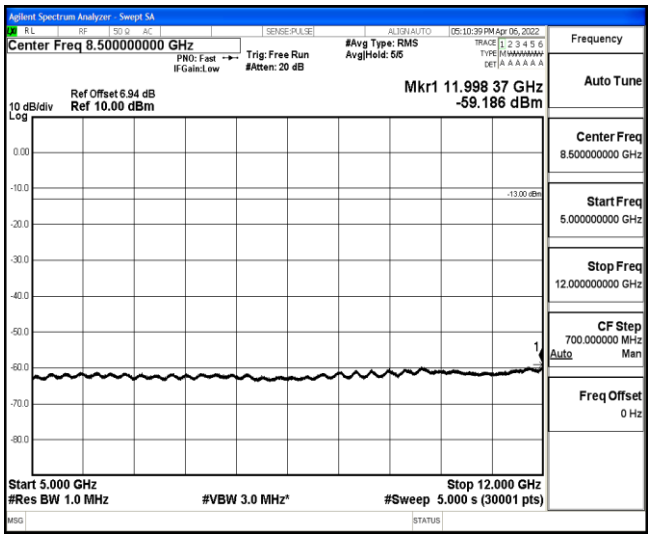
Band13-5MHz-QPSK-23255-1-0-High-12000-26500--44.59-PASS



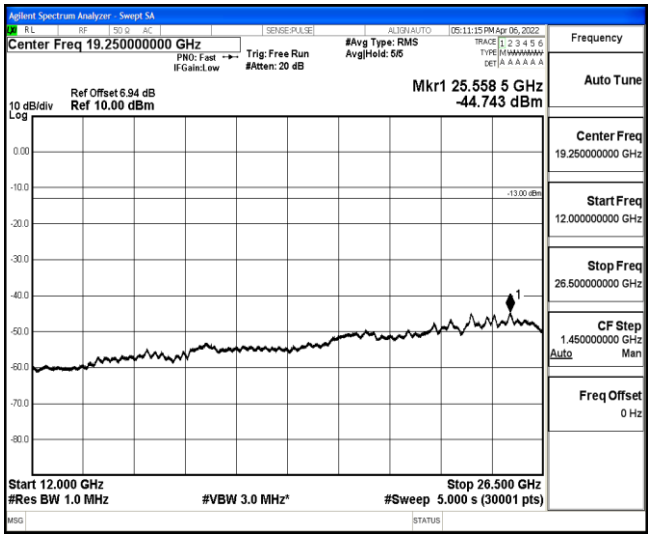
Band13-5MHz-16QAM-23205-1-0-Low-30-1000--35.13-PASS



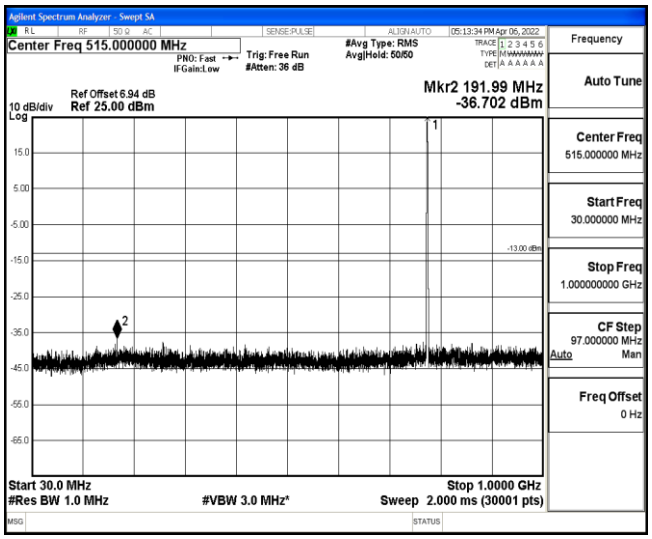
Band13-5MHz-16QAM-23205-1-0-Low-1000-5000--43.69-PASS



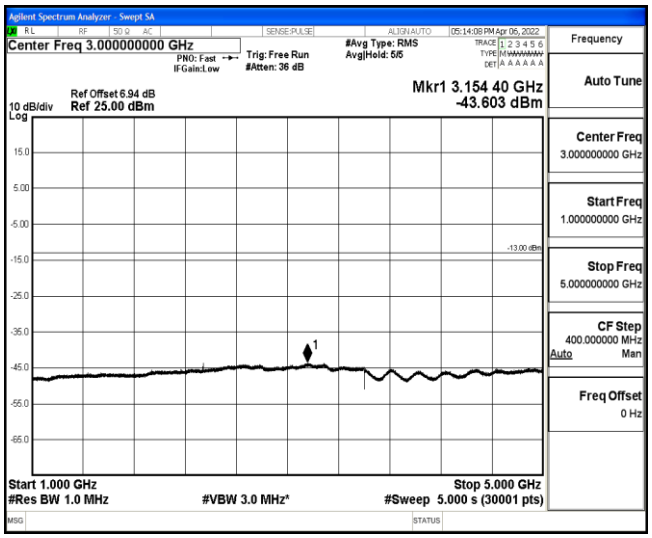
Band13-5MHz-16QAM-23205-1-0-Low-5000-12000--59.19-PASS



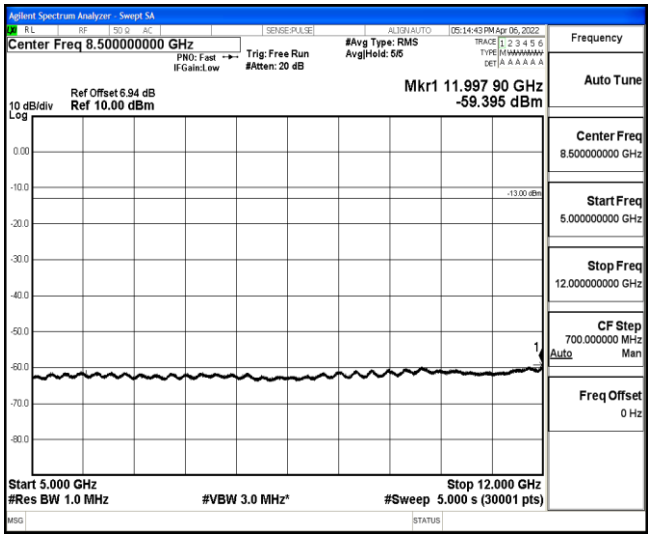
Band13-5MHz-16QAM-23205-1-0-Low-12000-26500--44.74-PASS



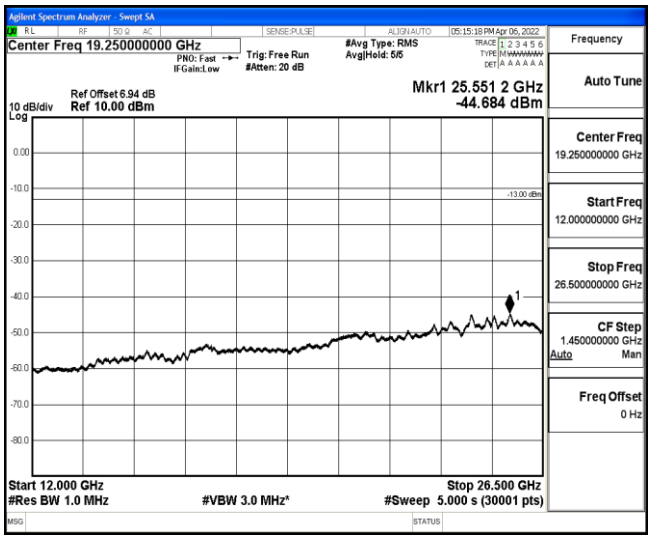
Band13-5MHz-16QAM-23230-1-0-Low-30-1000--36.7-PASS



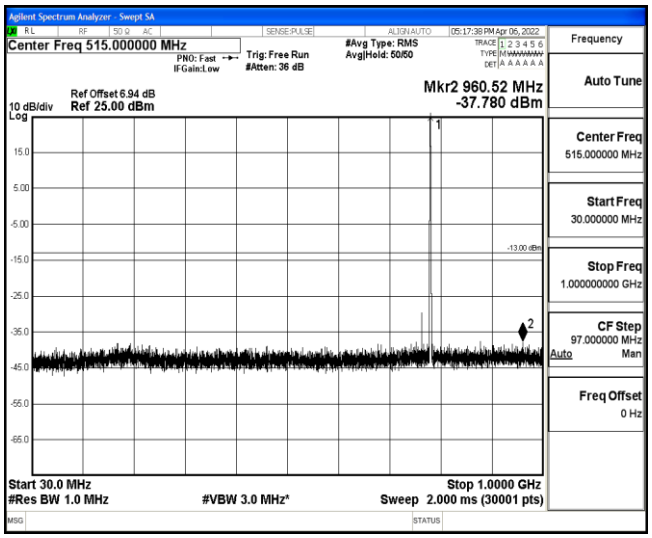
Band13-5MHz-16QAM-23230-1-0-Low-1000-5000--43.6-PASS



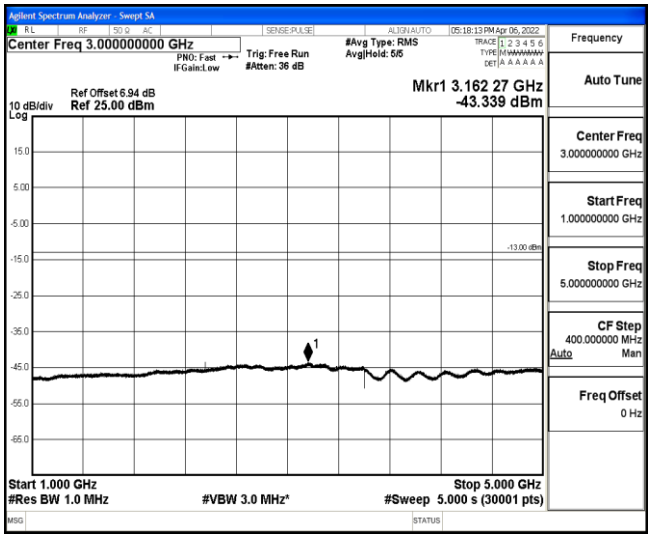
Band13-5MHz-16QAM-23230-1-0-Low-5000-12000--59.4-PASS



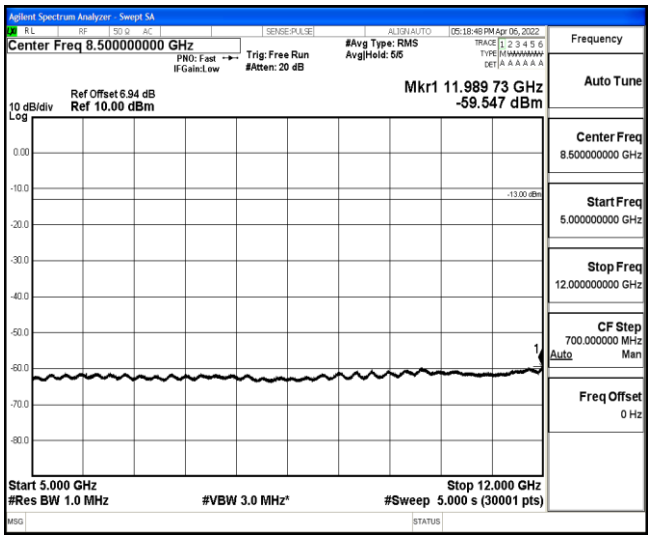
Band13-5MHz-16QAM-23230-1-0-Low-12000-26500--44.68-PASS



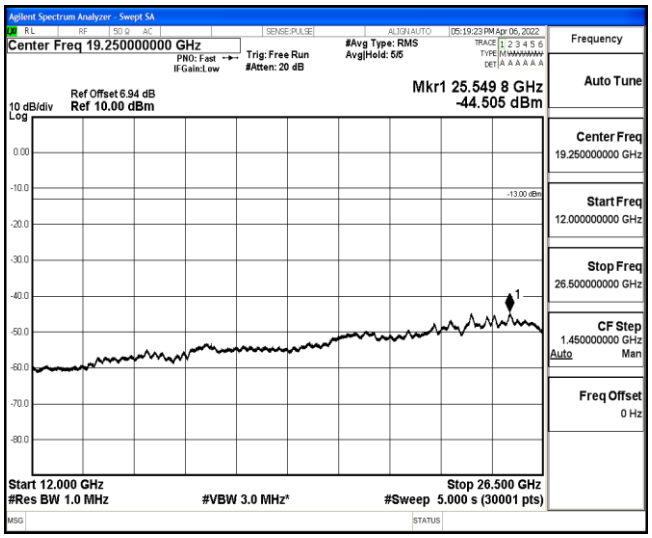
Band13-5MHz-16QAM-23255-1-0-High-30-1000--37.78-PASS



Band13-5MHz-16QAM-23255-1-0-High-1000-5000--43.34-PASS



Band13-5MHz-16QAM-23255-1-0-High-5000-12000--59.55-PASS



Band13-5MHz-16QAM-23255-1-0-High-12000-26500--44.51-PASS