



Appendix E: Test Data for CatM1 Band 13

Product Name: Frontier

Test Model: F100

Environmental Conditions

Temperature:	23.9°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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E.1 Conducted Output Power Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	20.38	PASS
Band13	5MHz	23205	QPSK	1	5	Low	20.30	PASS
Band13	5MHz	23205	QPSK	6	0	Low	19.19	PASS
Band13	5MHz	23230	QPSK	1	0	Low	20.41	PASS
Band13	5MHz	23230	QPSK	1	5	Low	20.11	PASS
Band13	5MHz	23230	QPSK	6	0	Low	19.14	PASS
Band13	5MHz	23255	QPSK	1	0	High	20.38	PASS
Band13	5MHz	23255	QPSK	1	5	High	20.37	PASS
Band13	5MHz	23255	QPSK	6	0	High	19.30	PASS
Band13	5MHz	23205	16QAM	1	0	Low	20.09	PASS
Band13	5MHz	23205	16QAM	1	5	Low	19.98	PASS
Band13	5MHz	23205	16QAM	6	0	Low	19.27	PASS
Band13	5MHz	23230	16QAM	1	0	Low	20.31	PASS
Band13	5MHz	23230	16QAM	1	5	Low	20.09	PASS
Band13	5MHz	23230	16QAM	6	0	Low	19.14	PASS
Band13	5MHz	23255	16QAM	1	0	High	20.72	PASS
Band13	5MHz	23255	16QAM	1	5	High	20.61	PASS
Band13	5MHz	23255	16QAM	6	0	High	19.15	PASS
Band13	10MHz	23230	QPSK	1	0	Low	20.24	PASS
Band13	10MHz	23230	QPSK	1	5	Low	20.14	PASS
Band13	10MHz	23230	QPSK	6	0	Low	19.24	PASS
Band13	10MHz	23230	16QAM	1	0	Low	20.27	PASS
Band13	10MHz	23230	16QAM	1	5	Low	20.19	PASS
Band13	10MHz	23230	16QAM	6	0	Low	19.25	PASS



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E.2 Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	8.59	<=13	PASS
Band13	5MHz	23205	QPSK	6	0	Low	10.87	<=13	PASS
Band13	5MHz	23230	QPSK	1	0	Low	9.39	<=13	PASS
Band13	5MHz	23230	QPSK	6	0	Low	8.73	<=13	PASS
Band13	5MHz	23255	QPSK	1	0	High	9.40	<=13	PASS
Band13	5MHz	23255	QPSK	6	0	High	9.74	<=13	PASS
Band13	5MHz	23205	16QAM	1	0	Low	7.48	<=13	PASS
Band13	5MHz	23205	16QAM	6	0	Low	8.54	<=13	PASS
Band13	5MHz	23230	16QAM	1	0	Low	8.40	<=13	PASS
Band13	5MHz	23230	16QAM	6	0	Low	9.93	<=13	PASS
Band13	5MHz	23255	16QAM	1	0	High	9.21	<=13	PASS
Band13	5MHz	23255	16QAM	6	0	High	9.23	<=13	PASS
Band13	10MHz	23230	QPSK	1	0	Low	10.42	<=13	PASS
Band13	10MHz	23230	QPSK	6	0	Low	6.86	<=13	PASS
Band13	10MHz	23230	16QAM	1	0	Low	8.96	<=13	PASS
Band13	10MHz	23230	16QAM	6	0	Low	9.51	<=13	PASS



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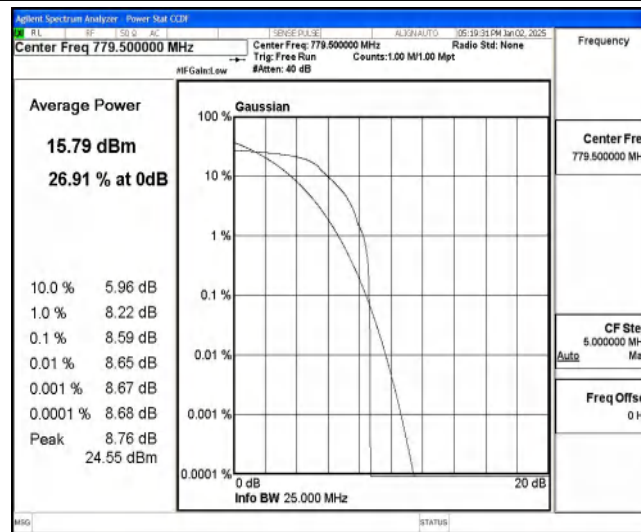
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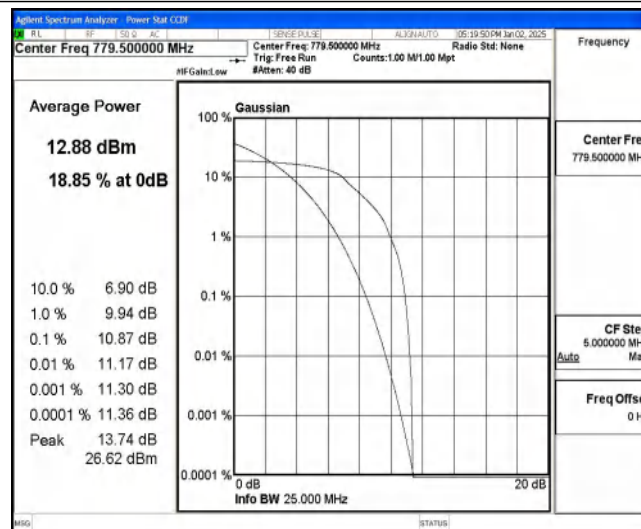
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Test Graphs



Band13-5MHz-QPSK-23205-1-0-Low-8.59-<=13-PASS



Band13-5MHz-QPSK-23205-6-0-Low-10.87-<=13-PASS

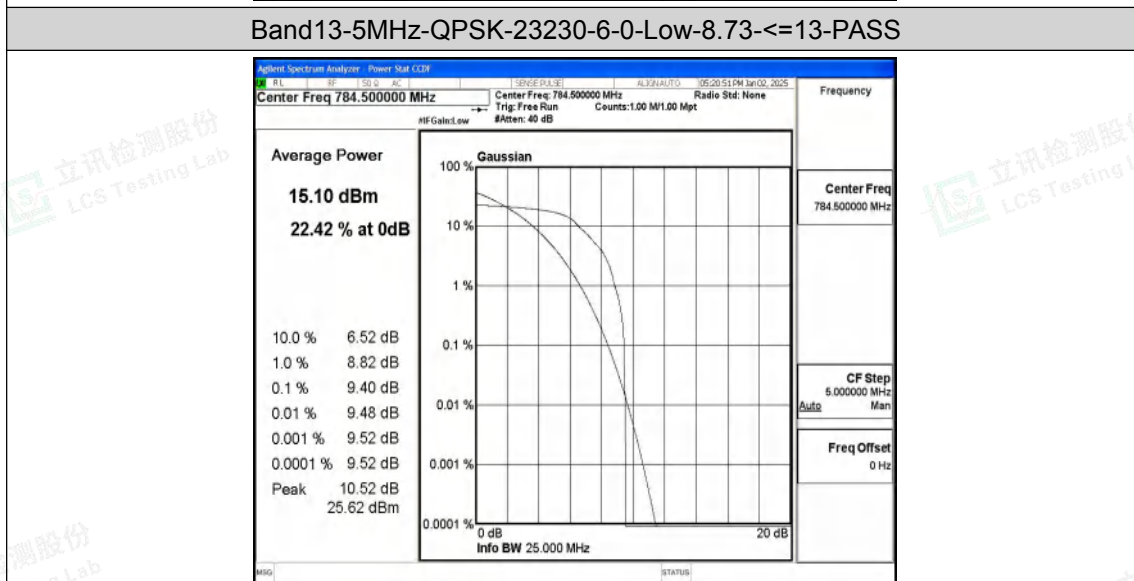
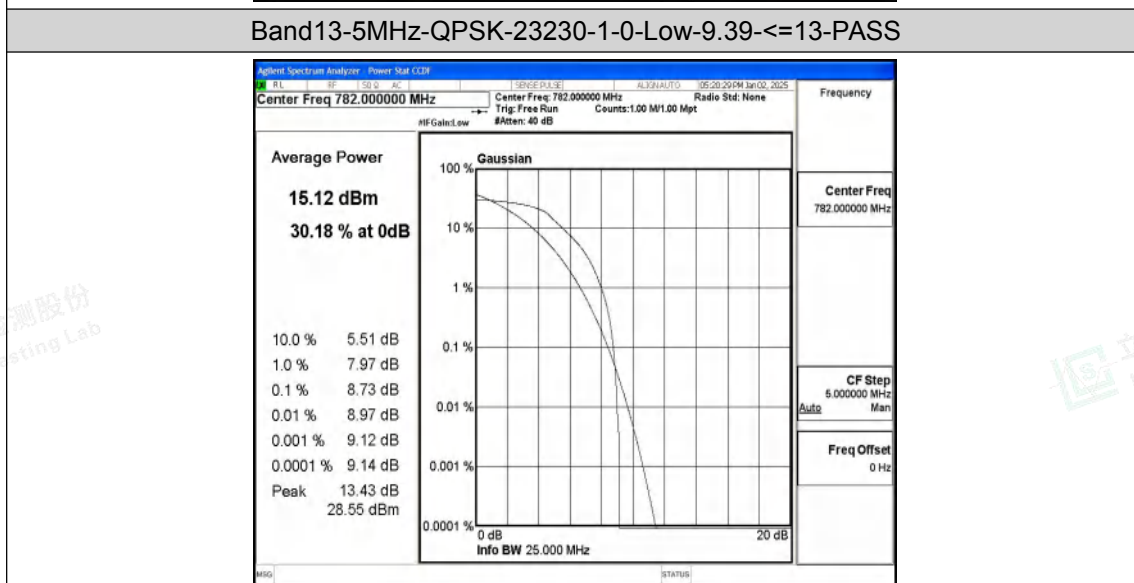
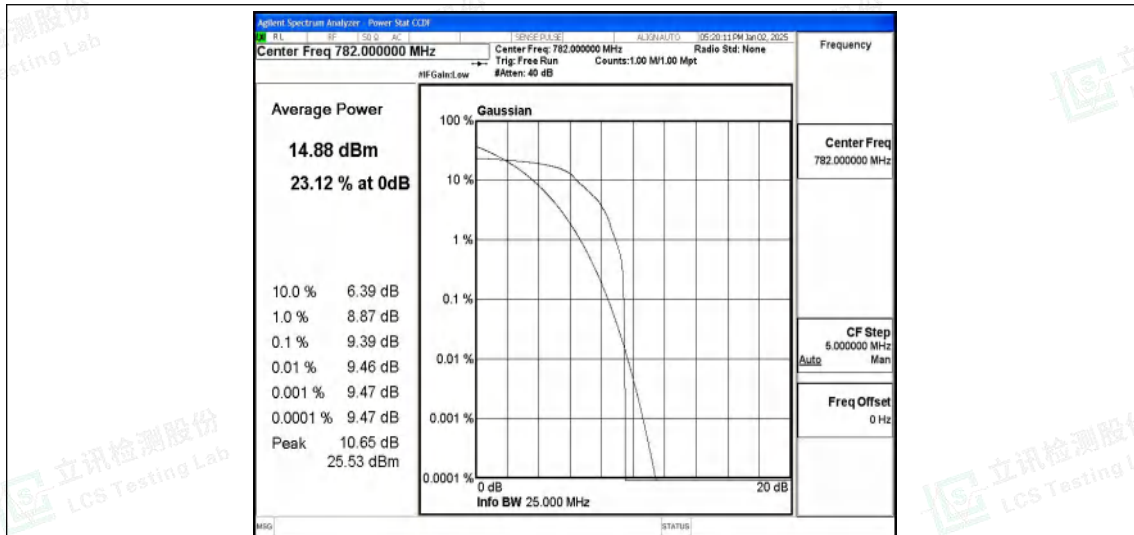


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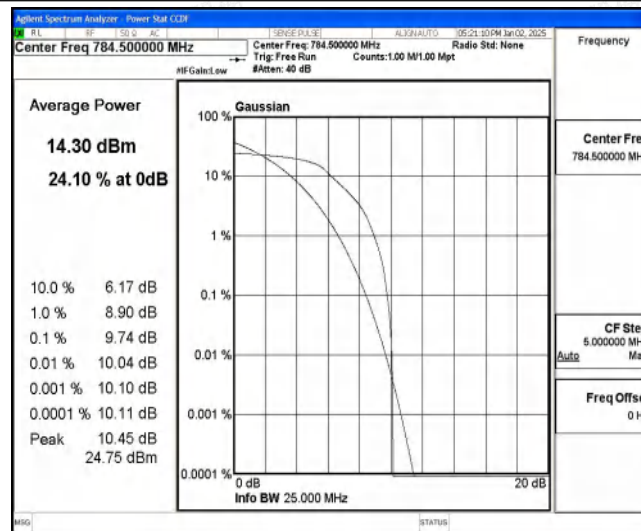


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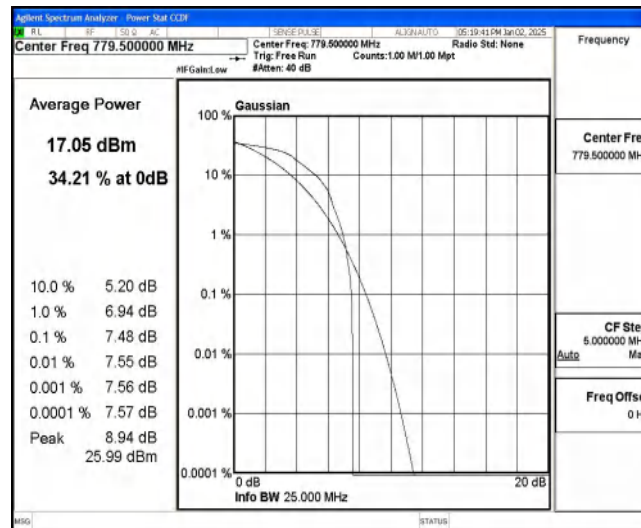
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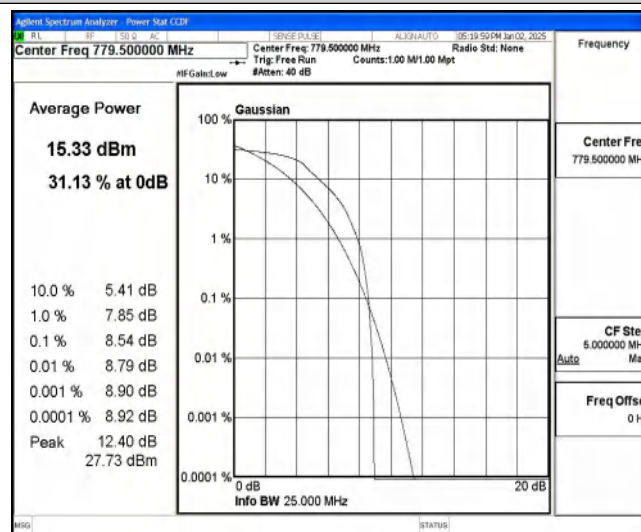
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Band13-5MHz-QPSK-23255-6-0-High-9.74-<=13-PASS



Band13-5MHz-16QAM-23205-1-0-Low-7.48-<=13-PASS



Band13-5MHz-16QAM-23205-6-0-Low-8.54-<=13-PASS

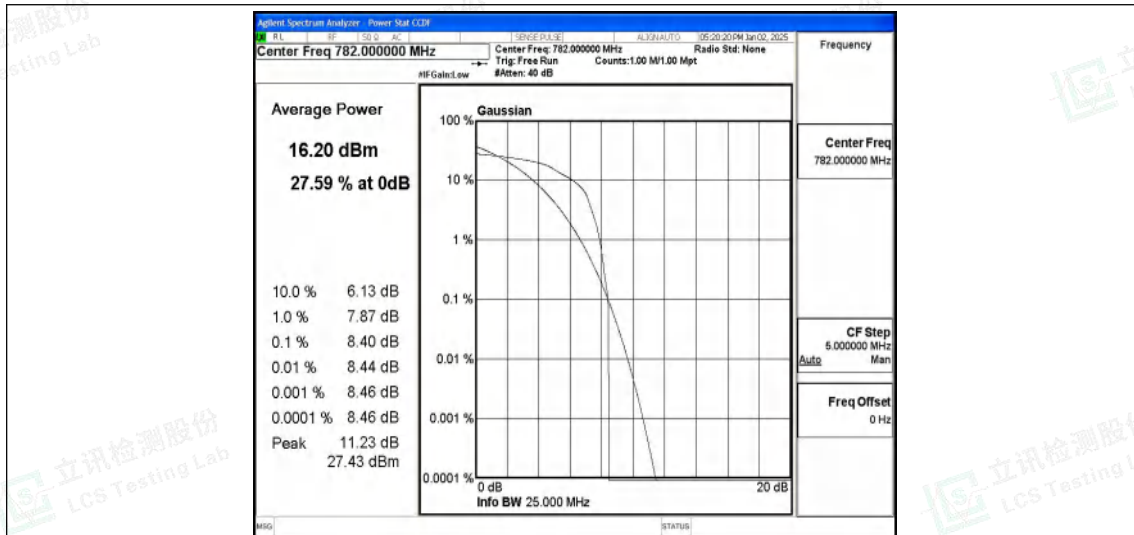


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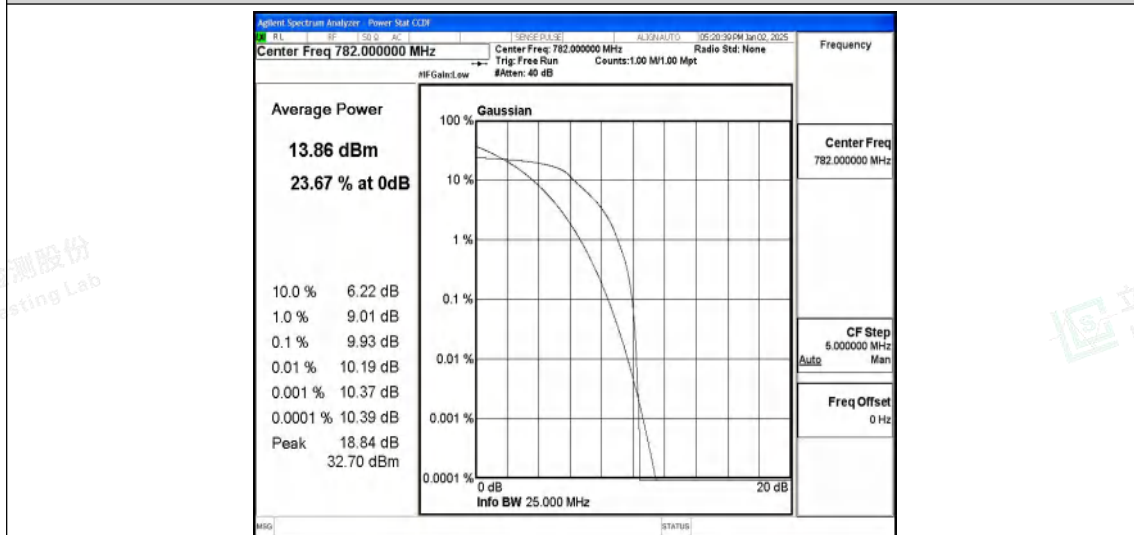
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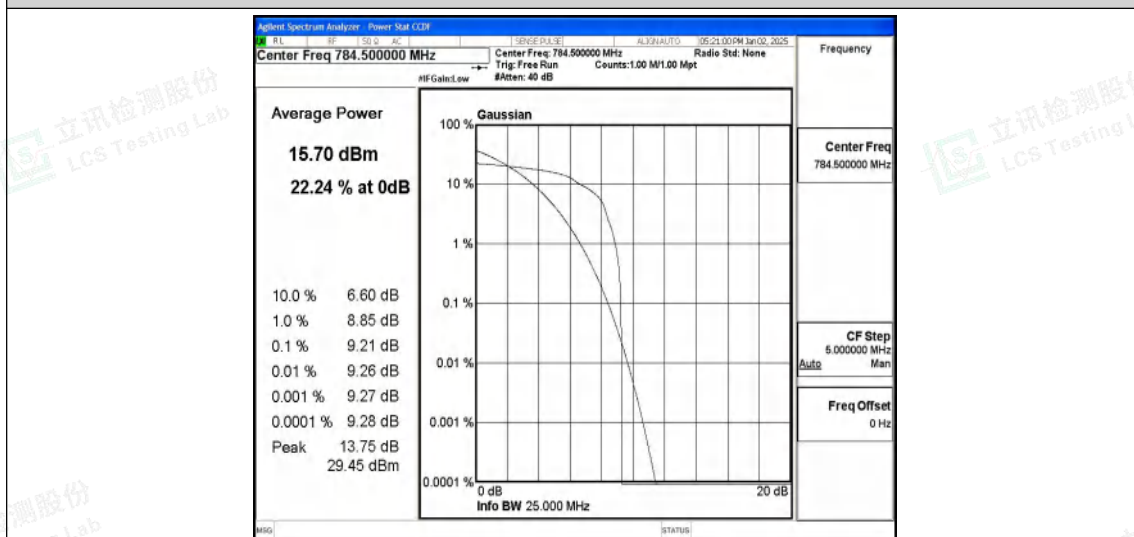
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Band13-5MHz-16QAM-23230-1-0-Low-8.40- <= 13-PASS



Band13-5MHz-16QAM-23230-6-0-Low-9.93- <= 13-PASS



Band13-5MHz-16QAM-23255-1-0-High-9.21- <= 13-PASS

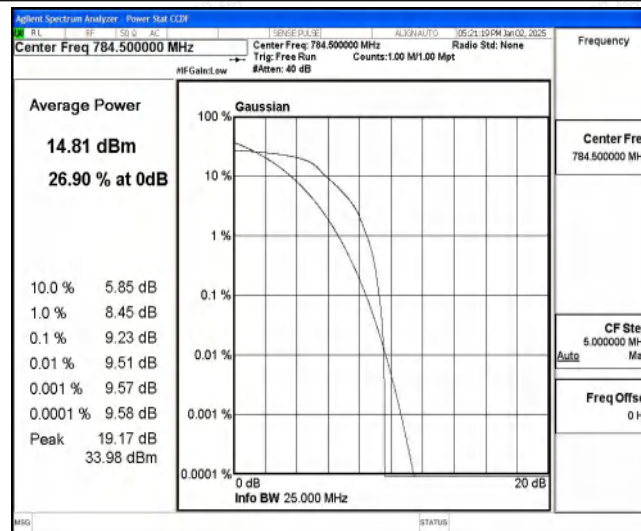


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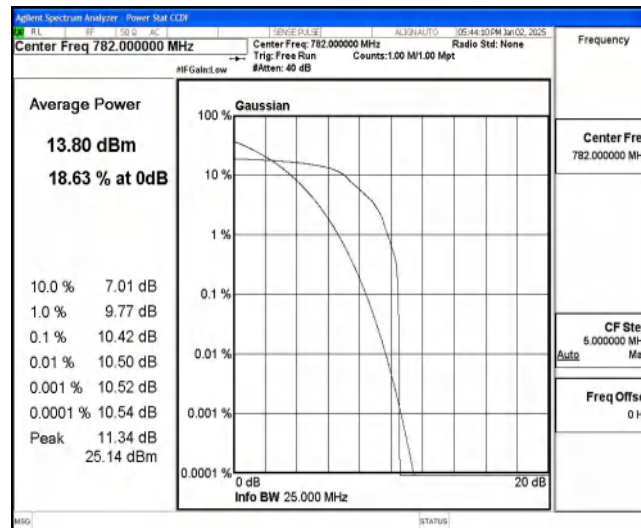
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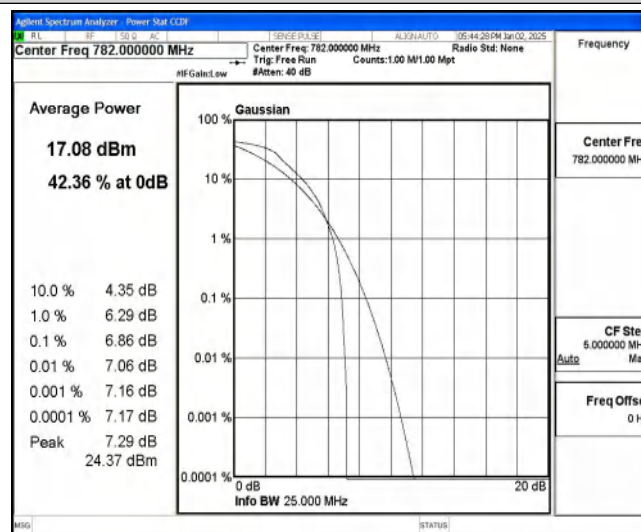
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Band13-5MHz-16QAM-23255-6-0-High-9.23-<=13-PASS



Band13-10MHz-QPSK-23230-1-0-Low-10.42-<=13-PASS



Band13-10MHz-QPSK-23230-6-0-Low-6.86-<=13-PASS

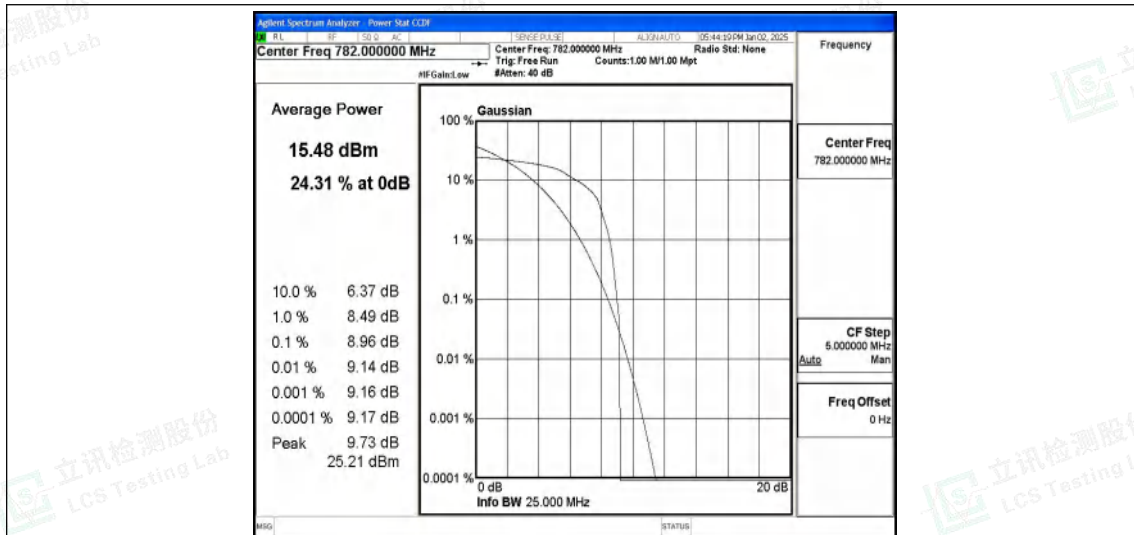


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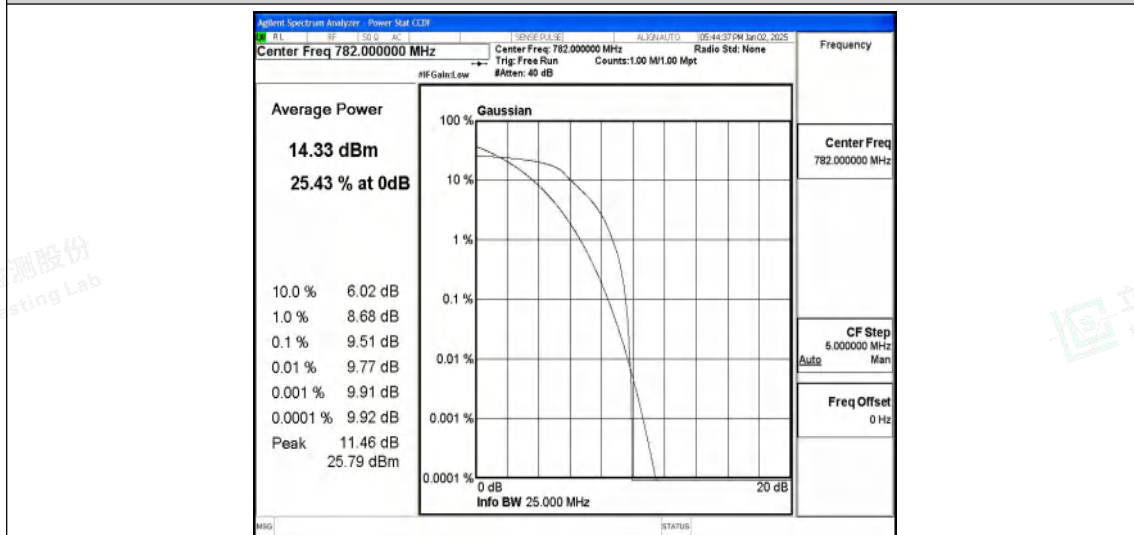
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Band13-10MHz-16QAM-23230-1-0-Low-8.96-13-PASS



Band13-10MHz-16QAM-23230-6-0-Low-9.51-13-PASS



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E.3 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth h	Modulation n	Channel l	RB Size	RB Start	NB Index	Occupied Bandwidth h (MHz)	26dB Bandwidth h (MHz)	Verdict
Band1 3	5MHz	23205	QPSK	6	0	Low	1.1043	1.280	PASS
Band1 3	5MHz	23230	QPSK	6	0	Low	1.1096	1.356	PASS
Band1 3	5MHz	23255	QPSK	6	0	High	1.1218	1.349	PASS
Band1 3	5MHz	23205	16QAM	6	0	Low	1.1077	1.386	PASS
Band1 3	5MHz	23230	16QAM	6	0	Low	1.1159	1.412	PASS
Band1 3	5MHz	23255	16QAM	6	0	High	1.1042	1.319	PASS
Band1 3	10MHz	23230	QPSK	6	0	Low	1.1239	1.331	PASS
Band1 3	10MHz	23230	16QAM	6	0	Low	1.1252	1.361	PASS



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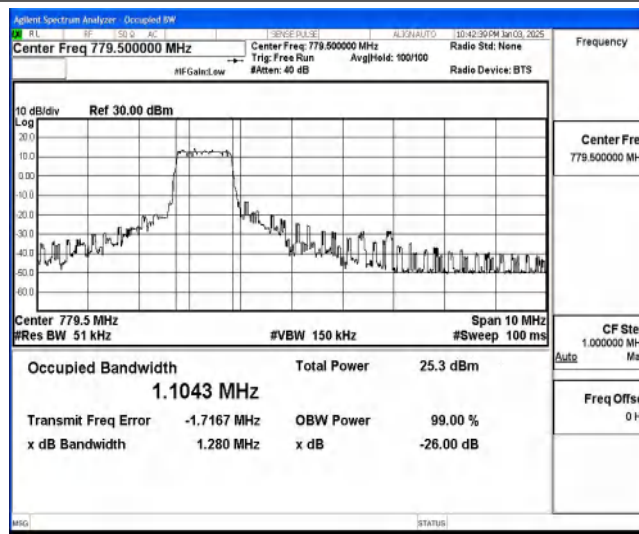
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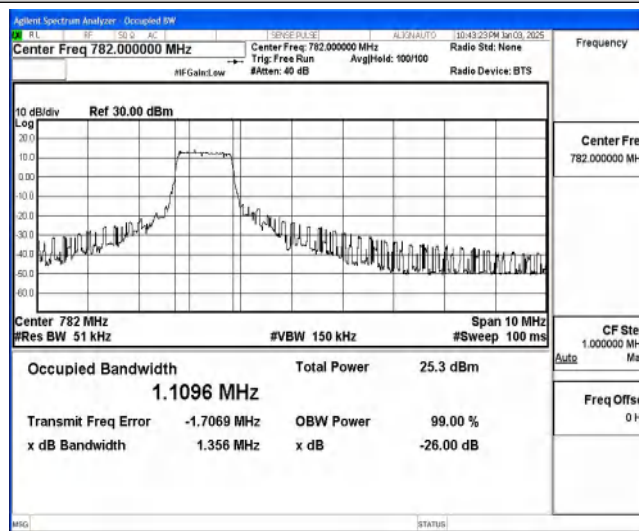
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Test Graphs



Band13-5MHz-QPSK-23205-6-0-Low-1.1043-1.280-PASS



Band13-5MHz-QPSK-23230-6-0-Low-1.1096-1.356-PASS

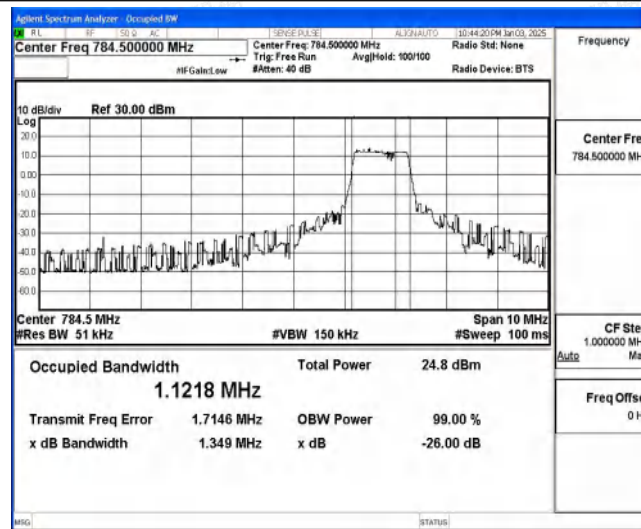


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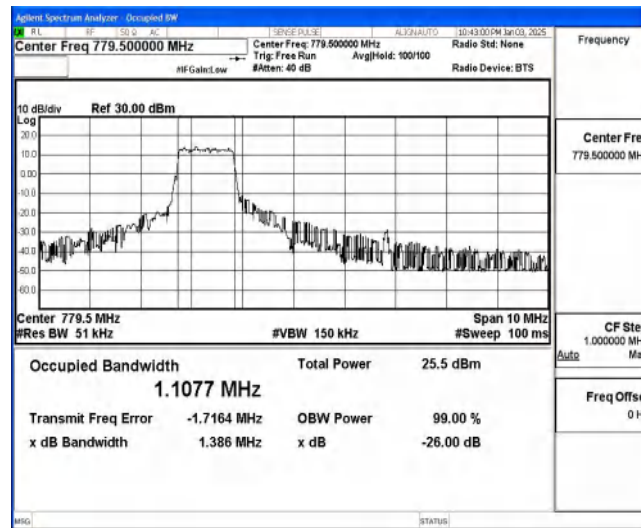
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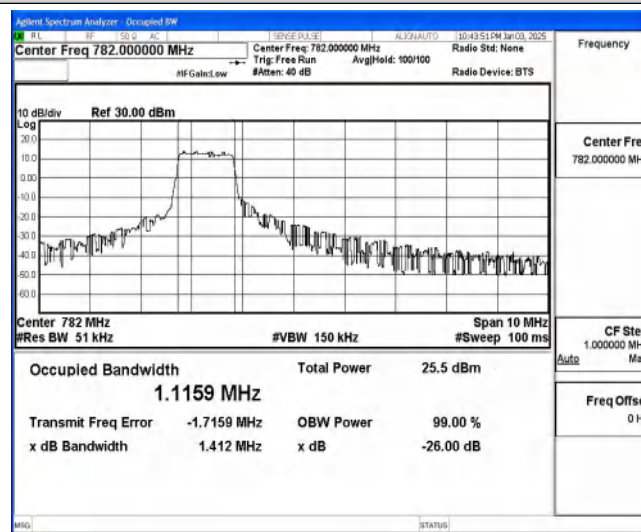
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Band13-5MHz-QPSK-23255-6-0-High-1.1218-1.349-PASS



Band13-5MHz-16QAM-23205-6-0-Low-1.1077-1.386-PASS



Band13-5MHz-16QAM-23230-6-0-Low-1.1159-1.412-PASS

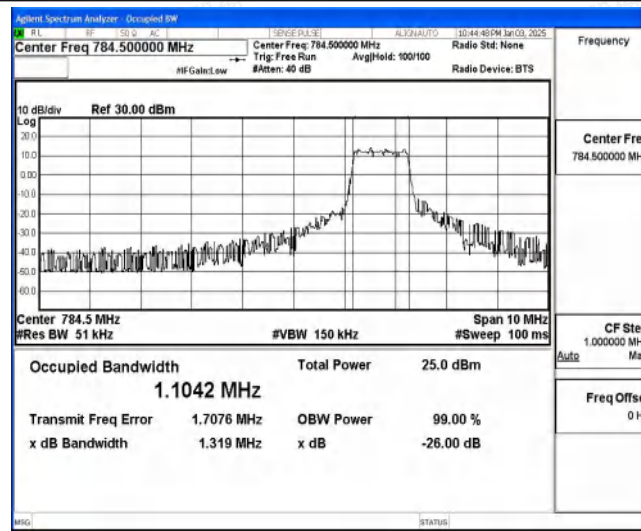


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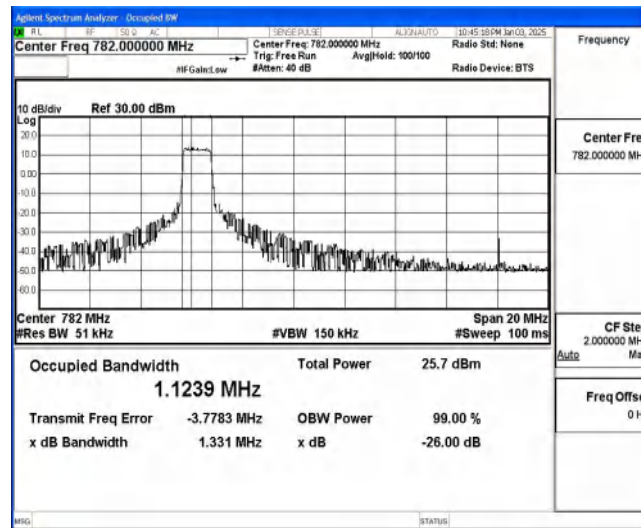
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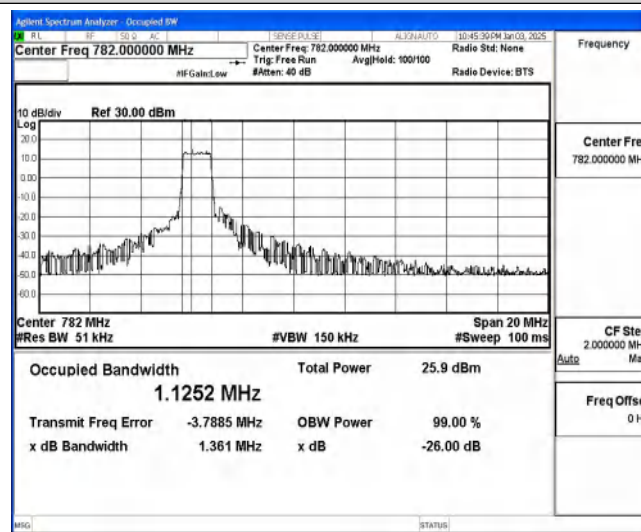
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Band13-5MHz-16QAM-23255-6-0-High-1.1042-1.319-PASS



Band13-10MHz-QPSK-23230-6-0-Low-1.1239-1.331-PASS



Band13-10MHz-16QAM-23230-6-0-Low-1.1252-1.361-PASS



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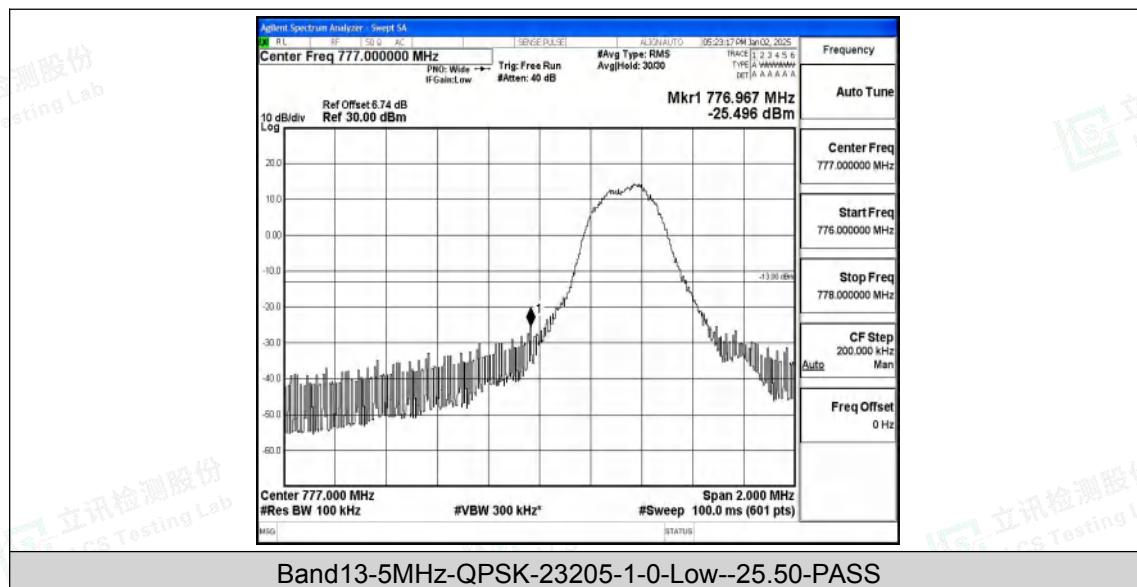


E.4 Band Edge for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band13	5MHz	23205	QPSK	1	0	Low	-25.50	PASS
Band13	5MHz	23205	QPSK	6	0	Low	-31.10	PASS
Band13	5MHz	23255	QPSK	1	0	High	-41.96	PASS
Band13	5MHz	23255	QPSK	6	0	High	-28.16	PASS
Band13	5MHz	23205	16QAM	1	0	Low	-28.55	PASS
Band13	5MHz	23205	16QAM	6	0	Low	-30.29	PASS
Band13	5MHz	23255	16QAM	1	0	High	-41.72	PASS
Band13	5MHz	23255	16QAM	6	0	High	-27.96	PASS

Test Graphs

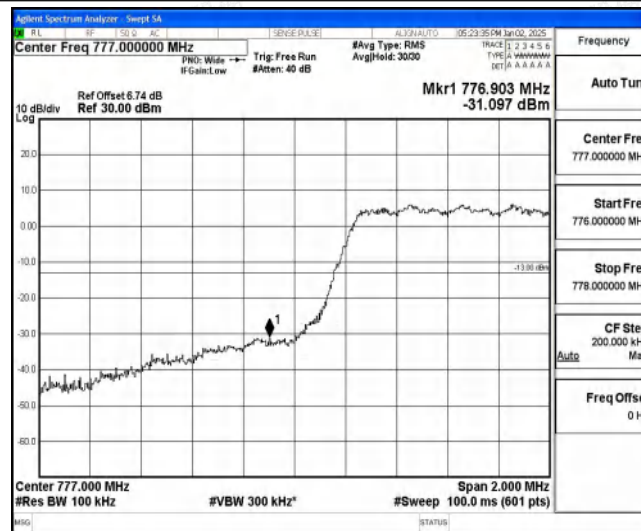


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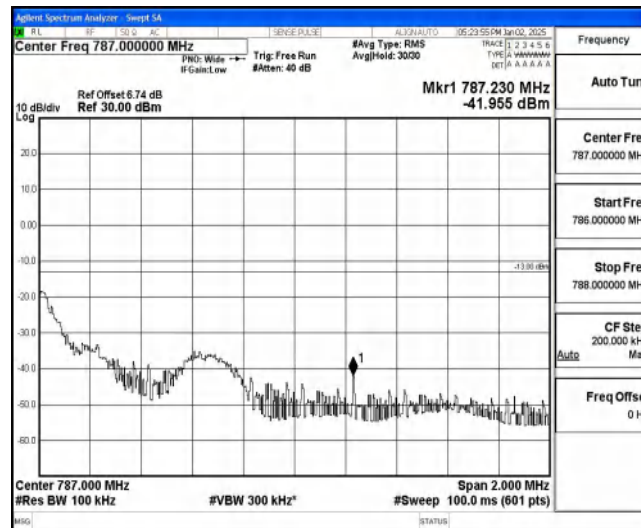
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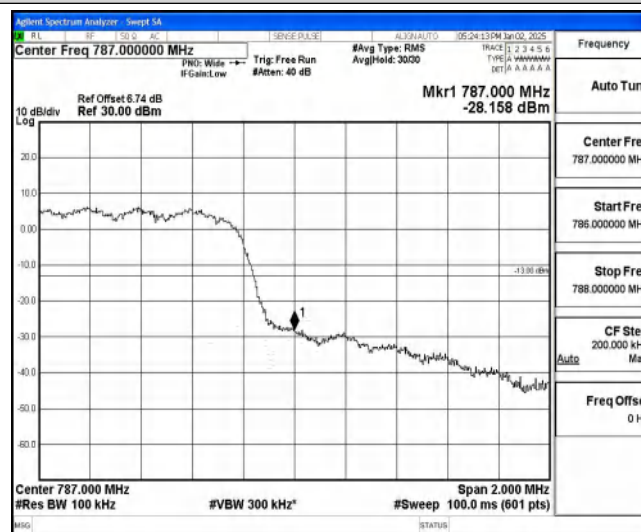
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Band13-5MHz-QPSK-23205-6-0-Low--31.10-PASS



Band13-5MHz-QPSK-23255-1-0-High--41.96-PASS



Band13-5MHz-QPSK-23255-6-0-High--28.16-PASS

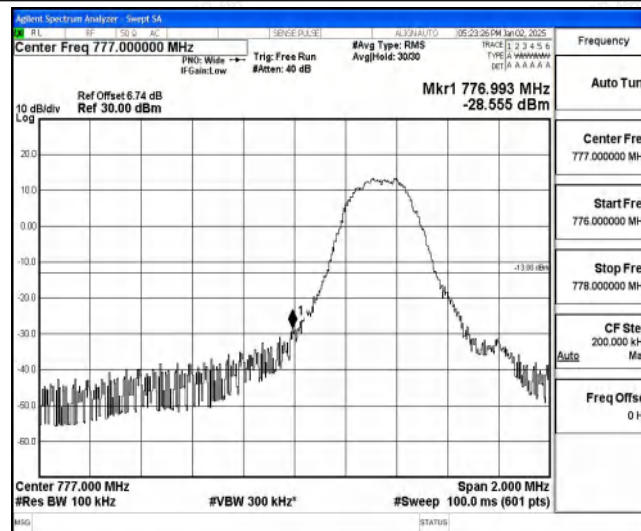


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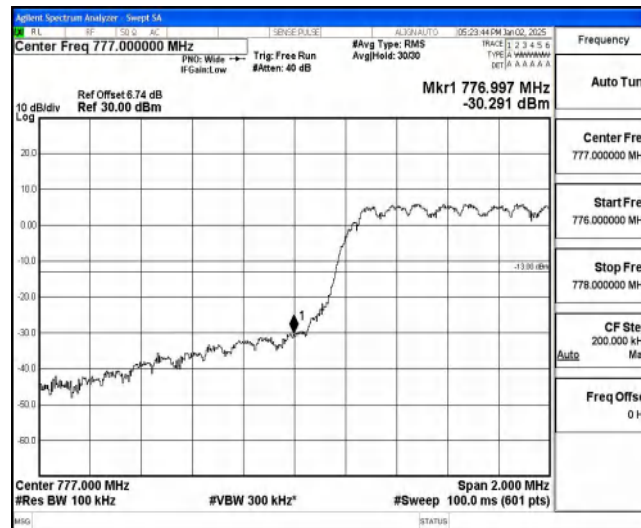
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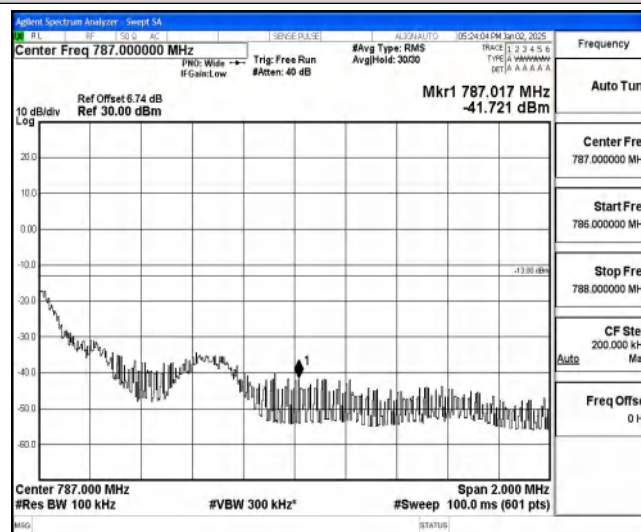
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Band13-5MHz-16QAM-23205-1-0-Low--28.55-PASS



Band13-5MHz-16QAM-23205-6-0-Low--30.29-PASS



Band13-5MHz-16QAM-23255-1-0-High--41.72-PASS

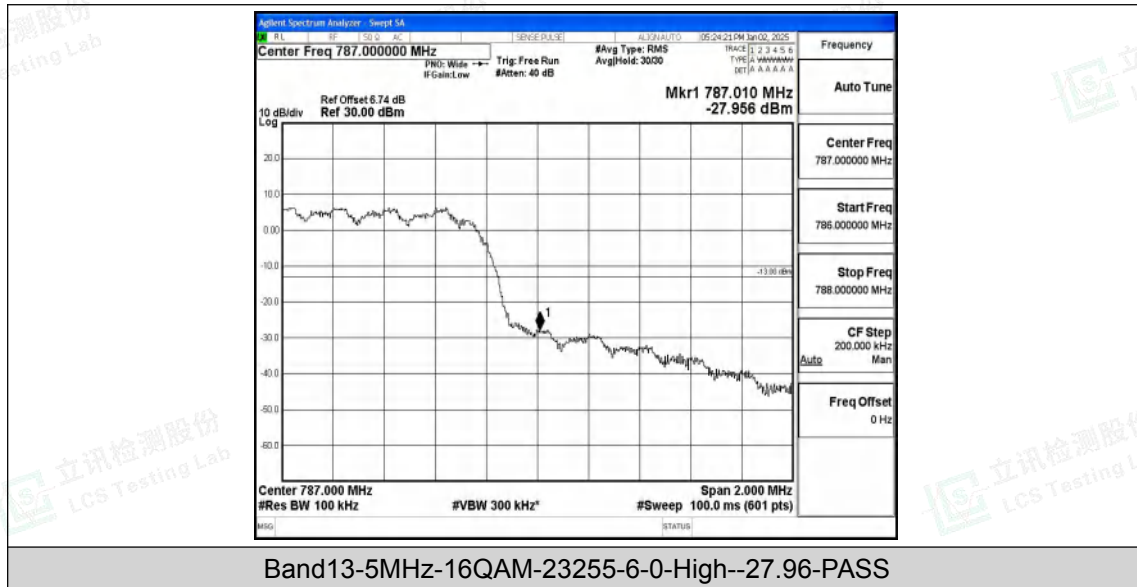


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E.5 Conducted Spurious Emission for M1

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	-38.14	PASS
Band13	5MHz	23205	QPSK	1	0	Low	1000	5000	-43.7	PASS
Band13	5MHz	23205	QPSK	1	0	Low	5000	12000	-59.46	PASS
Band13	5MHz	23205	QPSK	1	0	Low	12000	26500	-44.43	PASS
Band13	5MHz	23230	QPSK	1	0	Low	30	1000	-38.01	PASS
Band13	5MHz	23230	QPSK	1	0	Low	1000	5000	-43.64	PASS
Band13	5MHz	23230	QPSK	1	0	Low	5000	12000	-59.2	PASS
Band13	5MHz	23230	QPSK	1	0	Low	12000	26500	-44.51	PASS
Band13	5MHz	23255	QPSK	1	0	High	30	1000	-37.54	PASS
Band13	5MHz	23255	QPSK	1	0	High	1000	5000	-43.77	PASS
Band13	5MHz	23255	QPSK	1	0	High	5000	12000	-59.55	PASS
Band13	5MHz	23255	QPSK	1	0	High	12000	26500	-44.49	PASS
Band13	5MHz	23205	16QAM	1	0	Low	30	1000	-38.36	PASS
Band13	5MHz	23205	16QAM	1	0	Low	1000	5000	-43.58	PASS
Band13	5MHz	23205	16QAM	1	0	Low	5000	12000	-59.36	PASS
Band13	5MHz	23205	16QAM	1	0	Low	12000	26500	-44.41	PASS
Band13	5MHz	23230	16QAM	1	0	Low	30	1000	-37.41	PASS
Band13	5MHz	23230	16QAM	1	0	Low	1000	5000	-43.62	PASS
Band13	5MHz	23230	16QAM	1	0	Low	5000	12000	-59.56	PASS
Band13	5MHz	23230	16QAM	1	0	Low	12000	26500	-44.39	PASS
Band13	5MHz	23255	16QAM	1	0	High	30	1000	-37.7	PASS
Band13	5MHz	23255	16QAM	1	0	High	1000	5000	-43.73	PASS
Band13	5MHz	23255	16QAM	1	0	High	5000	12000	-59.59	PASS
Band13	5MHz	23255	16QAM	1	0	High	12000	26500	-44.35	PASS



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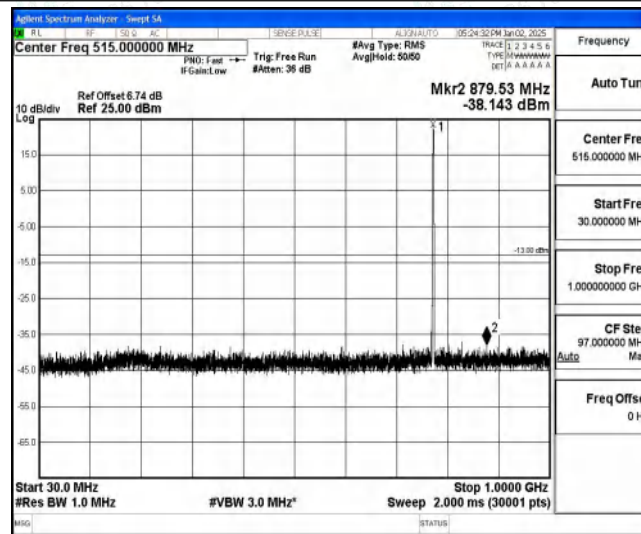
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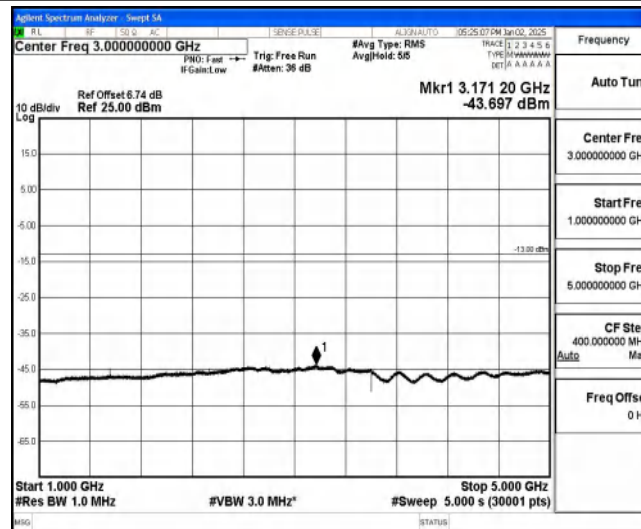
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Test Graphs



Band13-5MHz-QPSK-23205-1-0-Low-30-1000--38.14-PASS



Band13-5MHz-QPSK-23205-1-0-Low-1000-5000--43.7-PASS

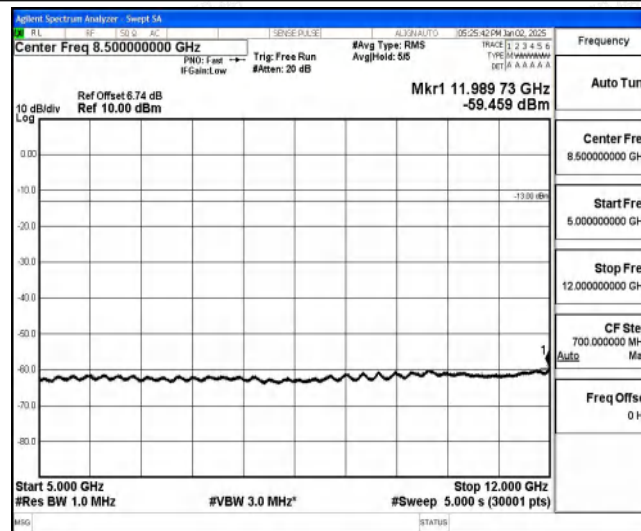


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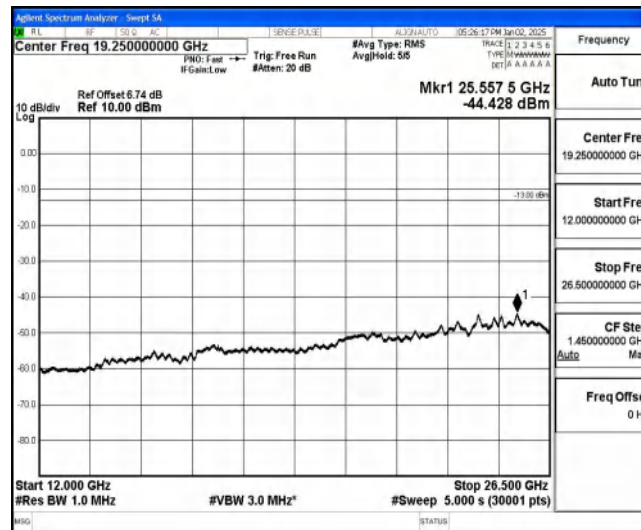
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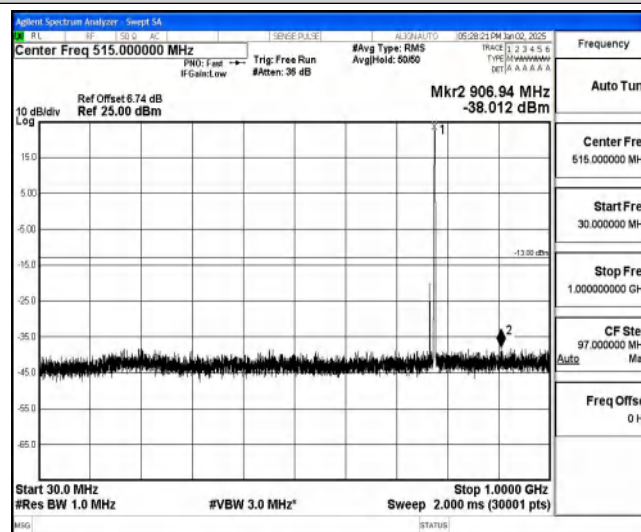
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Band13-5MHz-QPSK-23205-1-0-Low-5000-12000--59.46-PASS



Band13-5MHz-QPSK-23205-1-0-Low-12000-26500--44.43-PASS



Band13-5MHz-QPSK-23230-1-0-Low-30-1000--38.01-PASS

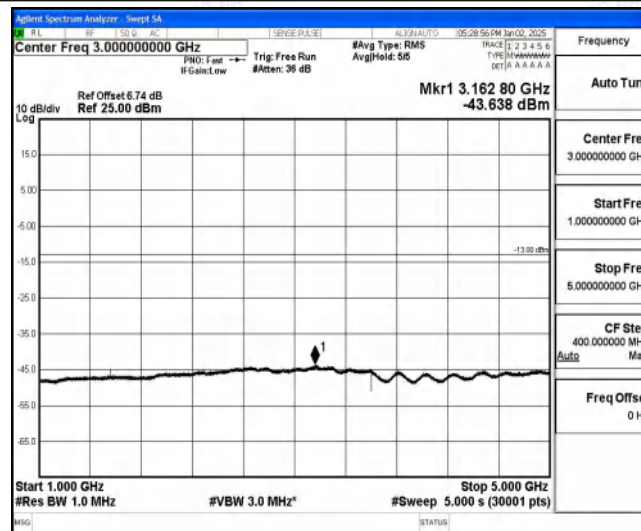


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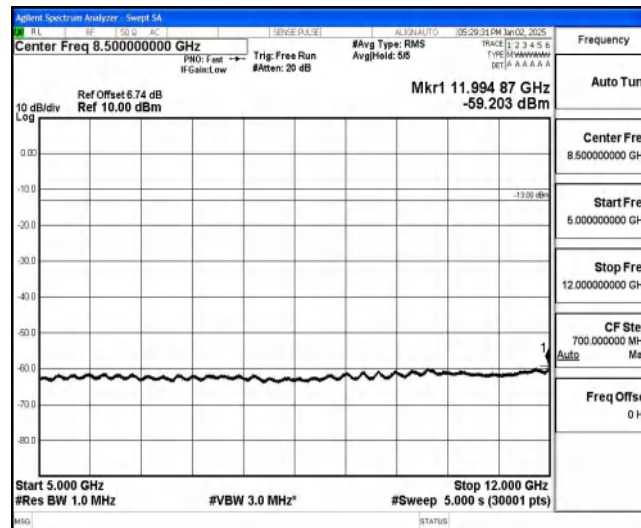
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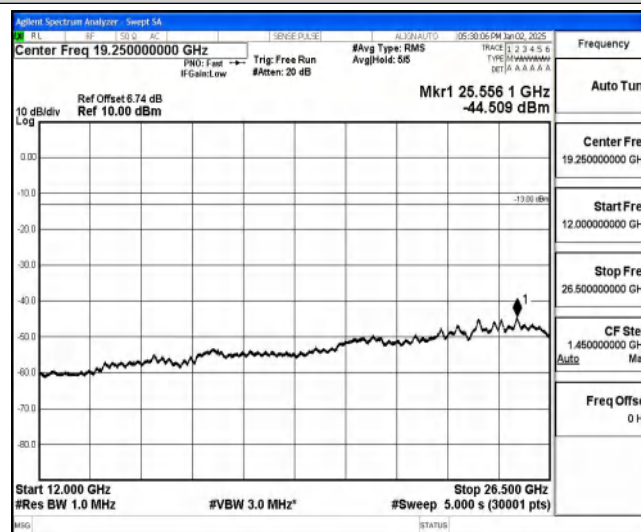
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Band13-5MHz-QPSK-23230-1-0-Low-1000-5000--43.64-PASS



Band13-5MHz-QPSK-23230-1-0-Low-5000-12000--59.2-PASS



Band13-5MHz-QPSK-23230-1-0-Low-12000-26500--44.51-PASS

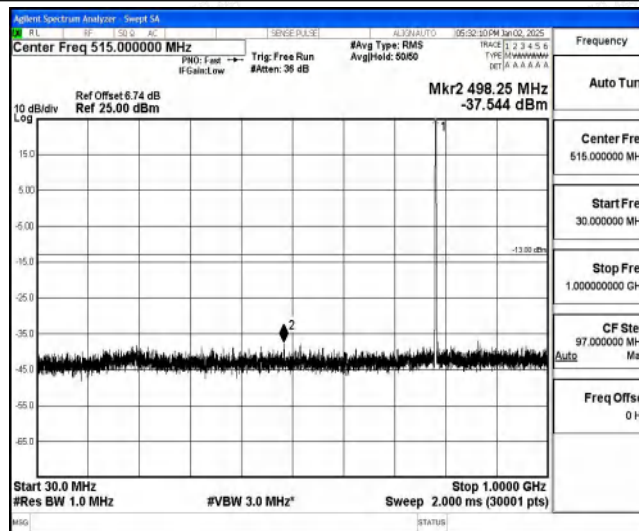


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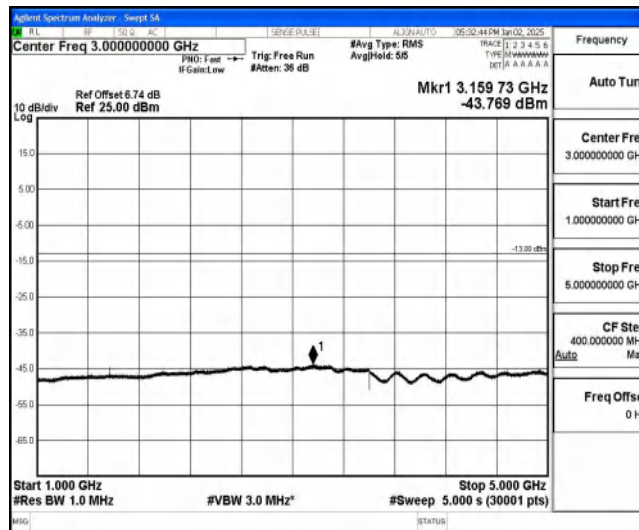
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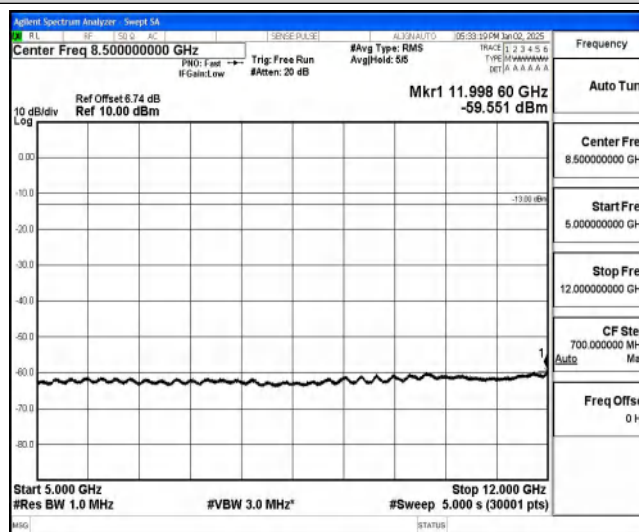
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Band13-5MHz-QPSK-23255-1-0-High-30-1000--37.54-PASS



Band13-5MHz-QPSK-23255-1-0-High-1000-5000--43.77-PASS



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

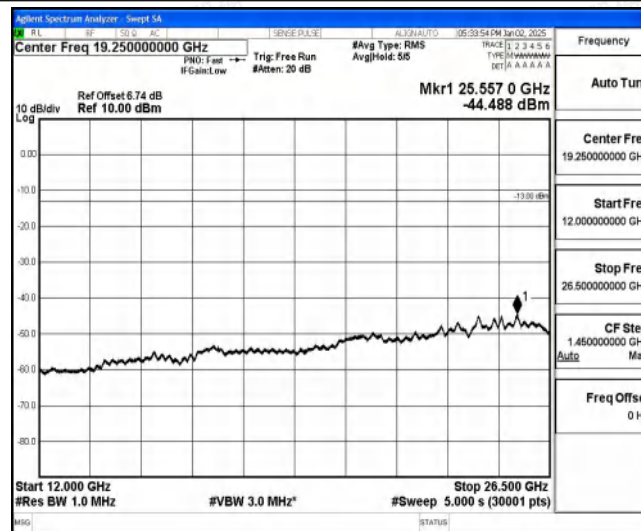


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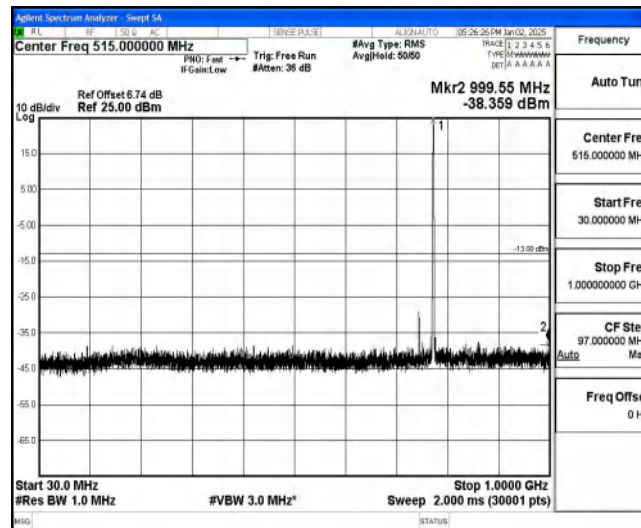
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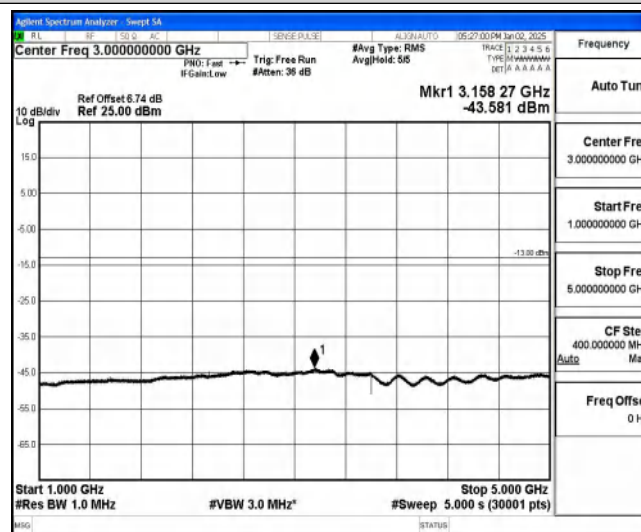
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Band13-5MHz-QPSK-23255-1-0-High-12000-26500--44.49-PASS



Band13-5MHz-16QAM-23205-1-0-Low-30-1000--38.36-PASS



Band13-5MHz-16QAM-23205-1-0-Low-1000-5000--43.58-PASS

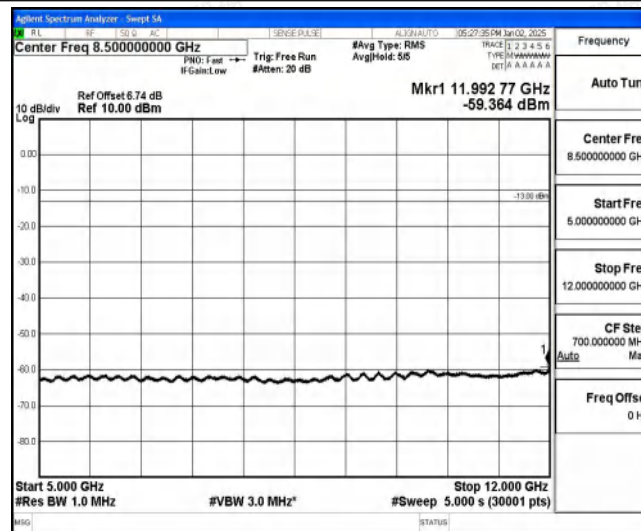


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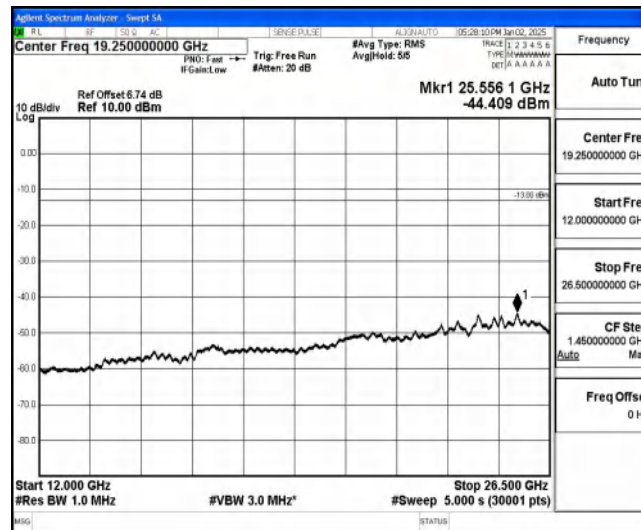
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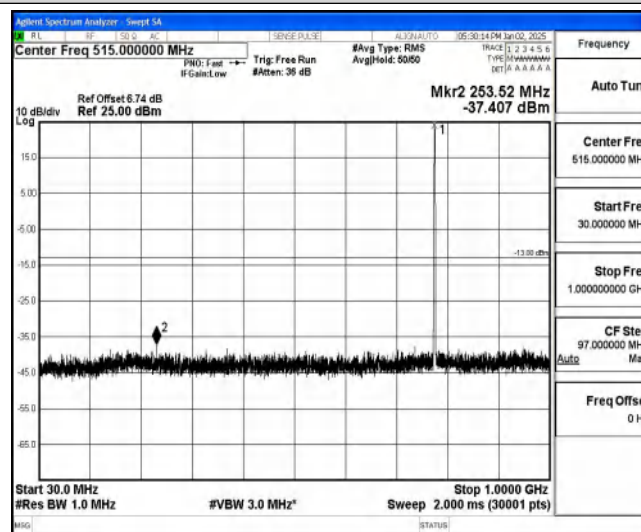
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Band13-5MHz-16QAM-23205-1-0-Low-5000-12000--59.36-PASS



Band13-5MHz-16QAM-23205-1-0-Low-12000-26500--44.41-PASS



Band13-5MHz-16QAM-23230-1-0-Low-30-1000--37.41-PASS

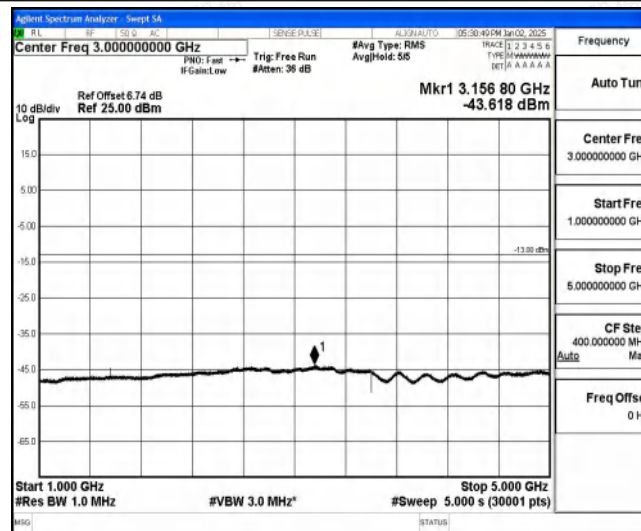


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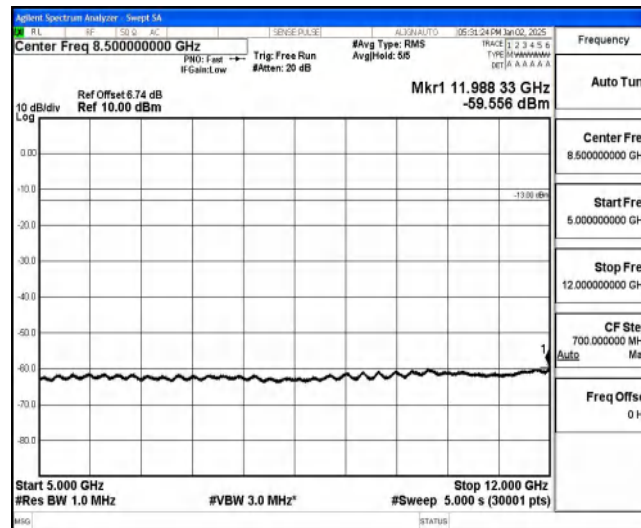
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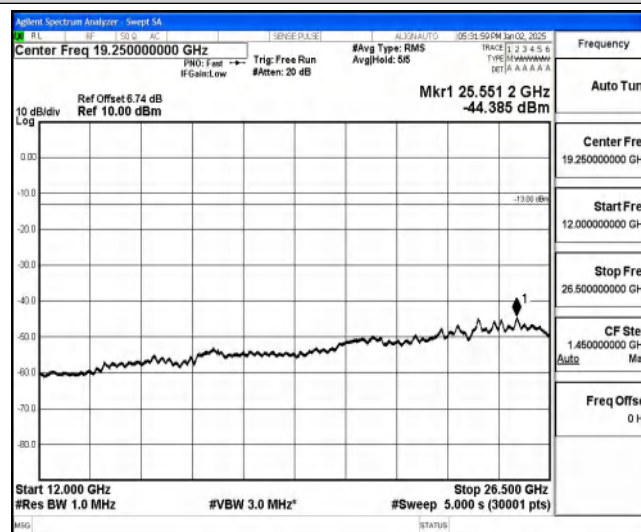
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Band13-5MHz-16QAM-23230-1-0-Low-1000-5000--43.62-PASS



Band13-5MHz-16QAM-23230-1-0-Low-5000-12000--59.56-PASS



Band13-5MHz-16QAM-23230-1-0-Low-12000-26500--44.39-PASS

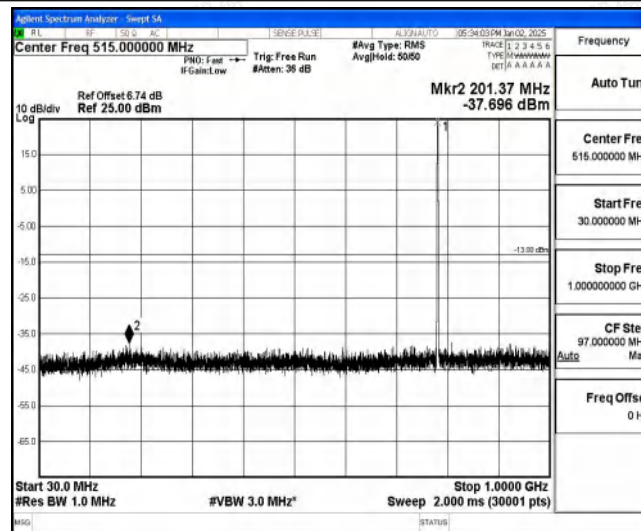


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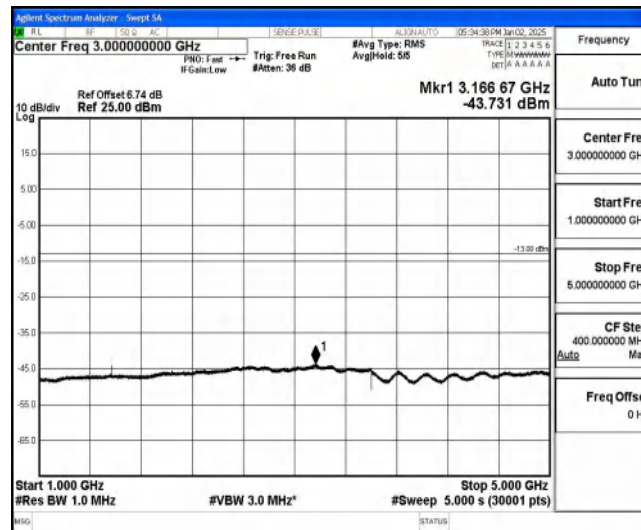
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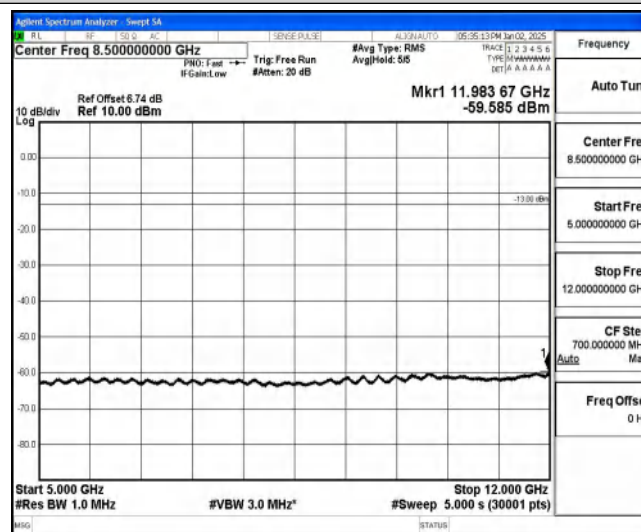
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Band13-5MHz-16QAM-23255-1-0-High-30-1000--37.7-PASS



Band13-5MHz-16QAM-23255-1-0-High-1000-5000--43.73-PASS



Band13-5MHz-16QAM-23255-1-0-High-5000-12000--59.59-PASS

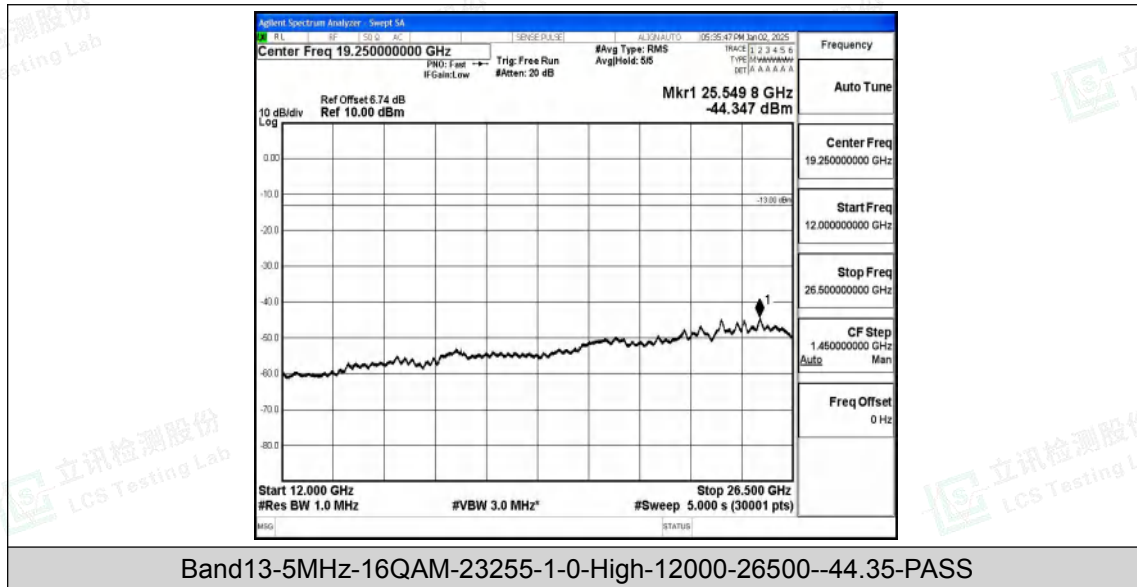


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