



Appendix L: Test Data for CatM1 Band 85

Product Name: IoTgo Track-Solar iot

Test Model: iot

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng



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L.1 Conducted Output Power Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dBm)	Verdict
Band85	5MHz	134027	QPSK	1	0	Low	23.28	PASS
Band85	5MHz	134027	QPSK	1	5	Low	23.11	PASS
Band85	5MHz	134027	QPSK	6	0	Low	22.19	PASS
Band85	5MHz	134092	QPSK	1	0	Low	23.37	PASS
Band85	5MHz	134092	QPSK	1	5	Low	23.14	PASS
Band85	5MHz	134092	QPSK	6	0	Low	22.02	PASS
Band85	5MHz	134157	QPSK	1	0	High	23.28	PASS
Band85	5MHz	134157	QPSK	1	5	High	22.90	PASS
Band85	5MHz	134157	QPSK	6	0	High	22.09	PASS
Band85	5MHz	134027	16QAM	1	0	Low	23.33	PASS
Band85	5MHz	134027	16QAM	1	5	Low	23.28	PASS
Band85	5MHz	134027	16QAM	6	0	Low	22.19	PASS
Band85	5MHz	134092	16QAM	1	0	Low	23.03	PASS
Band85	5MHz	134092	16QAM	1	5	Low	22.89	PASS
Band85	5MHz	134092	16QAM	6	0	Low	22.18	PASS
Band85	5MHz	134157	16QAM	1	0	High	23.13	PASS
Band85	5MHz	134157	16QAM	1	5	High	23.06	PASS
Band85	5MHz	134157	16QAM	6	0	High	22.09	PASS
Band85	10MHz	134052	QPSK	1	0	Low	23.75	PASS
Band85	10MHz	134052	QPSK	1	5	Low	23.47	PASS
Band85	10MHz	134052	QPSK	6	0	Low	22.28	PASS
Band85	10MHz	134092	QPSK	1	0	Low	23.42	PASS
Band85	10MHz	134092	QPSK	1	5	Low	23.23	PASS
Band85	10MHz	134092	QPSK	6	0	Low	21.94	PASS
Band85	10MHz	134132	QPSK	1	0	High	23.20	PASS
Band85	10MHz	134132	QPSK	1	5	High	22.91	PASS
Band85	10MHz	134132	QPSK	6	0	High	22.02	PASS
Band85	10MHz	134052	16QAM	1	0	Low	23.58	PASS
Band85	10MHz	134052	16QAM	1	5	Low	23.49	PASS
Band85	10MHz	134052	16QAM	6	0	Low	22.28	PASS
Band85	10MHz	134092	16QAM	1	0	Low	23.24	PASS
Band85	10MHz	134092	16QAM	1	5	Low	23.06	PASS
Band85	10MHz	134092	16QAM	6	0	Low	22.11	PASS
Band85	10MHz	134132	16QAM	1	0	High	23.06	PASS



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Band85	10MHz	134132	16QAM	1	5	High	22.96	PASS
Band85	10MHz	134132	16QAM	6	0	High	22.02	PASS



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

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band85	5MHz	134027	QPSK	6	0	Low	8.88	<=13	PASS
Band85	5MHz	134092	QPSK	6	0	Low	10.12	<=13	PASS
Band85	5MHz	134157	QPSK	6	0	High	11.17	<=13	PASS
Band85	5MHz	134027	16QAM	6	0	Low	8.53	<=13	PASS
Band85	5MHz	134092	16QAM	6	0	Low	10.62	<=13	PASS
Band85	5MHz	134157	16QAM	6	0	High	9.87	<=13	PASS
Band85	10MHz	134052	QPSK	6	0	Low	9.32	<=13	PASS
Band85	10MHz	134092	QPSK	6	0	Low	8.32	<=13	PASS
Band85	10MHz	134132	QPSK	6	0	High	9.79	<=13	PASS
Band85	10MHz	134052	16QAM	6	0	Low	9.32	<=13	PASS
Band85	10MHz	134092	16QAM	6	0	Low	10.16	<=13	PASS
Band85	10MHz	134132	16QAM	6	0	High	9.72	<=13	PASS



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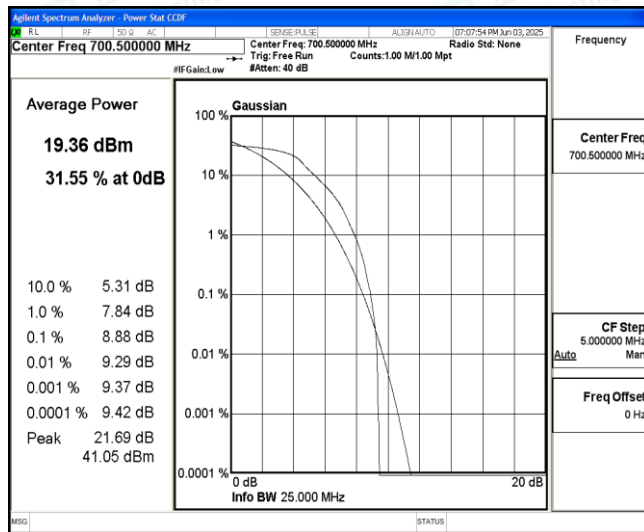
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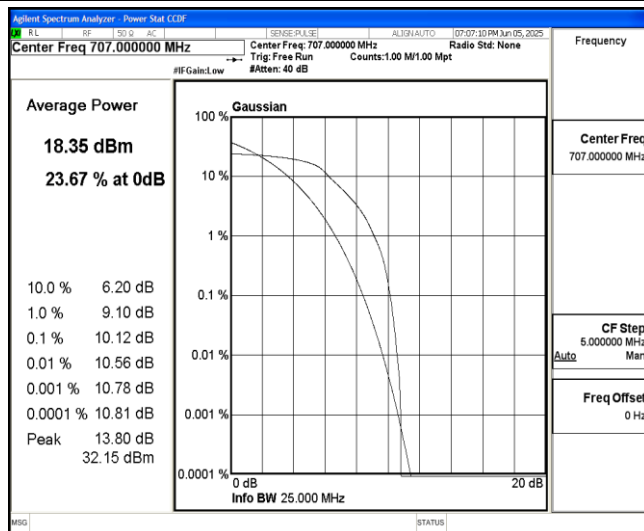
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Test Graphs



Band85-5MHz-QPSK-134027-6-0-Low-8.88-<=13-PASS



Band85-5MHz-QPSK-134092-6-0-Low-10.12-<=13-PASS

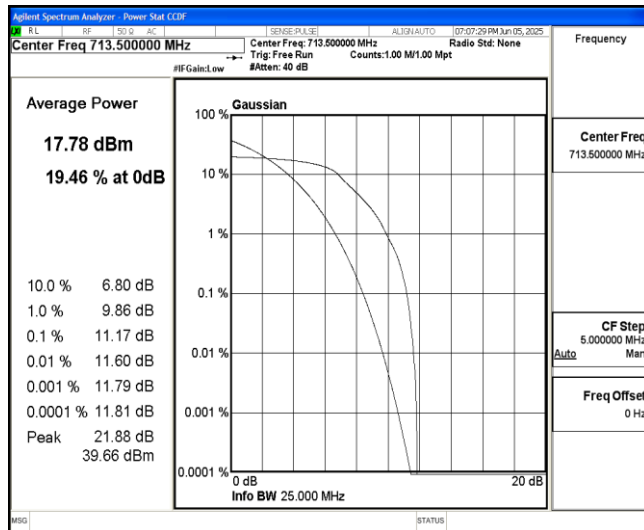


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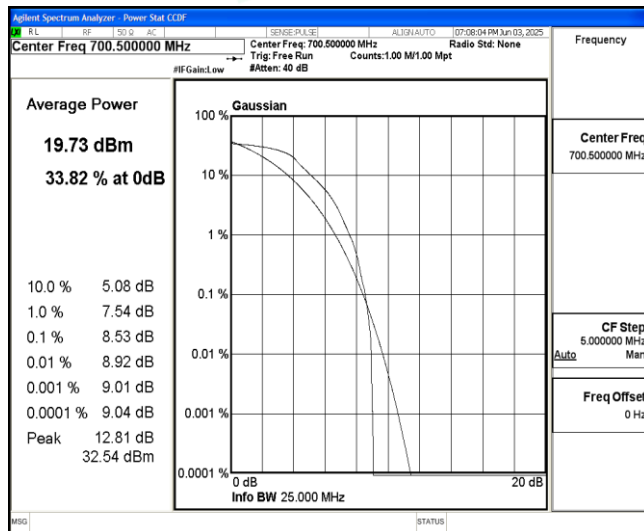
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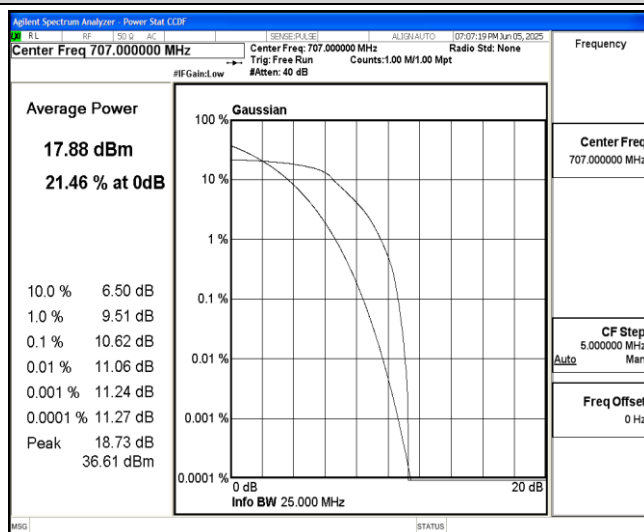
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Band85-5MHz-QPSK-134157-6-0-High-11.17-<=13-PASS



Band85-5MHz-16QAM-134027-6-0-Low-8.53-<=13-PASS



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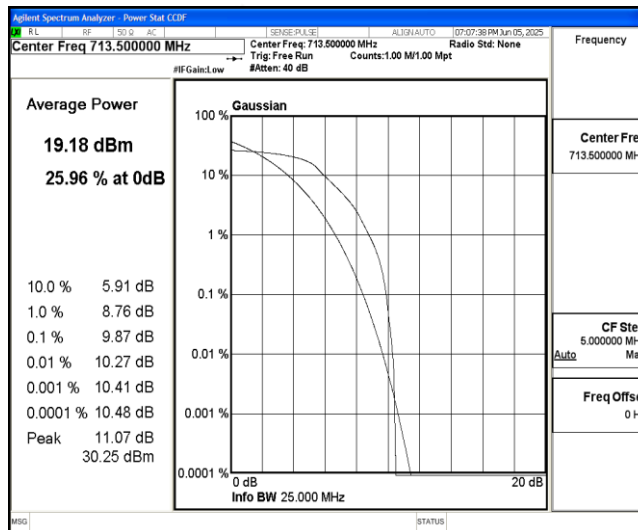
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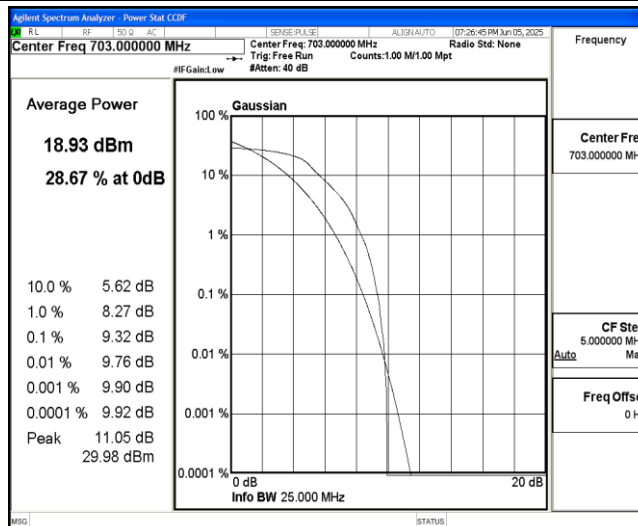
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Band85-5MHz-16QAM-134092-6-0-Low-10.62-<=13-PASS



Band85-5MHz-16QAM-134157-6-0-High-9.87-<=13-PASS



Band85-10MHz-QPSK-134052-6-0-Low-9.32-<=13-PASS

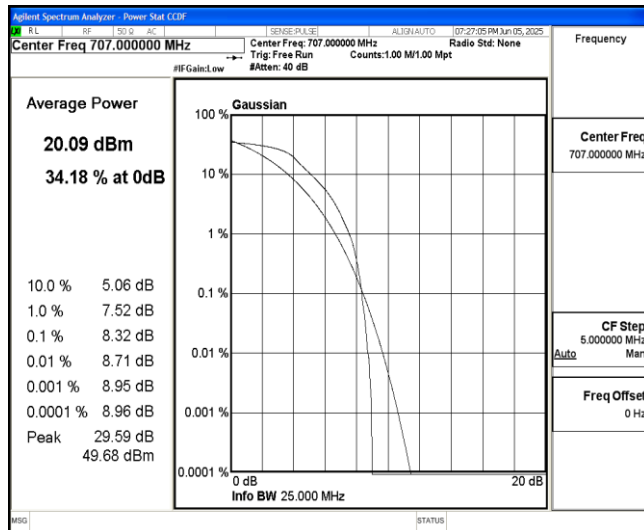


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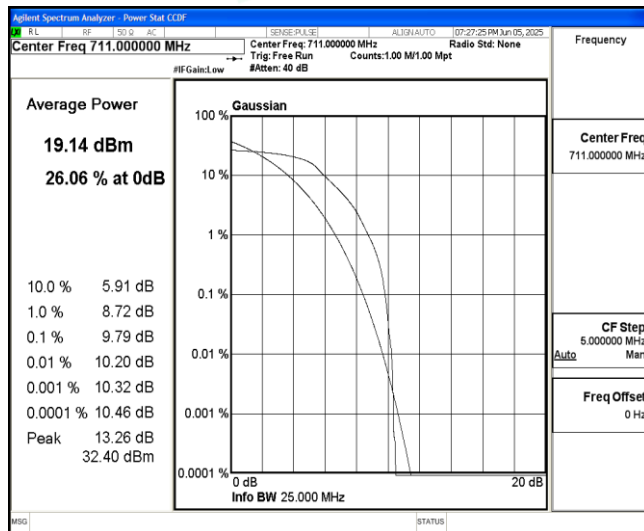
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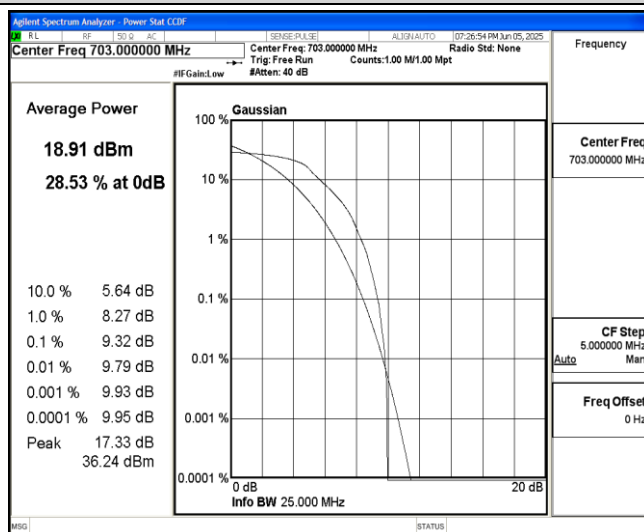
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Band85-10MHz-QPSK-134092-6-0-Low-8.32-<=13-PASS



Band85-10MHz-QPSK-134132-6-0-High-9.79-<=13-PASS



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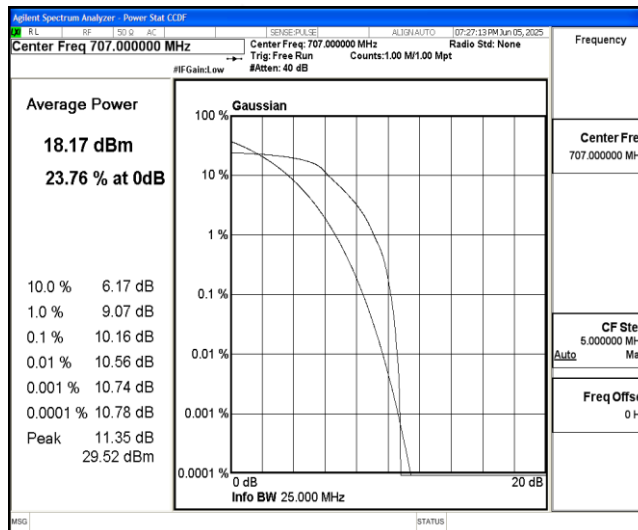
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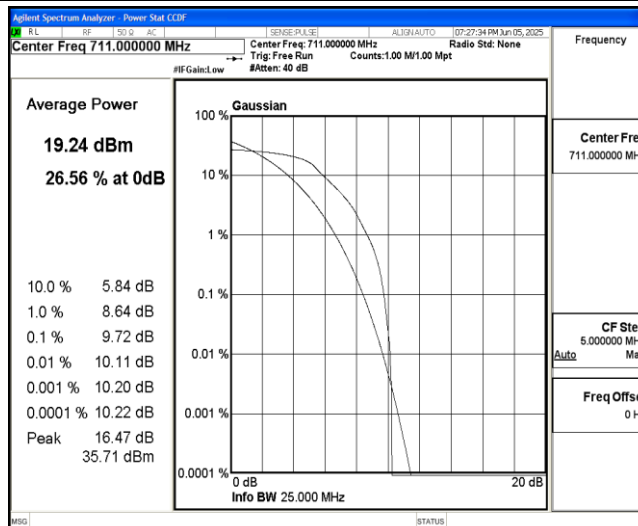
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Band85-10MHz-16QAM-134052-6-0-Low-9.32-<=13-PASS



Band85-10MHz-16QAM-134092-6-0-Low-10.16-<=13-PASS



Band85-10MHz-16QAM-134132-6-0-High-9.72-<=13-PASS



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L.3 26dB Bandwidth and Occupied Bandwidth for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band85	5MHz	134027	QPSK	6	0	Low	1.1755	1.524	PASS
Band85	5MHz	134092	QPSK	6	0	Low	1.1699	1.657	PASS
Band85	5MHz	134157	QPSK	6	0	High	1.1957	1.457	PASS
Band85	5MHz	134027	16QAM	6	0	Low	1.1811	1.562	PASS
Band85	5MHz	134092	16QAM	6	0	Low	1.1668	1.649	PASS
Band85	5MHz	134157	16QAM	6	0	High	1.1831	1.404	PASS
Band85	10MHz	134052	QPSK	6	0	Low	1.3327	2.275	PASS
Band85	10MHz	134092	QPSK	6	0	Low	1.3395	2.100	PASS
Band85	10MHz	134132	QPSK	6	0	High	1.3506	1.759	PASS
Band85	10MHz	134052	16QAM	6	0	Low	1.3410	2.105	PASS
Band85	10MHz	134092	16QAM	6	0	Low	1.3478	2.195	PASS
Band85	10MHz	134132	16QAM	6	0	High	1.3572	1.921	PASS



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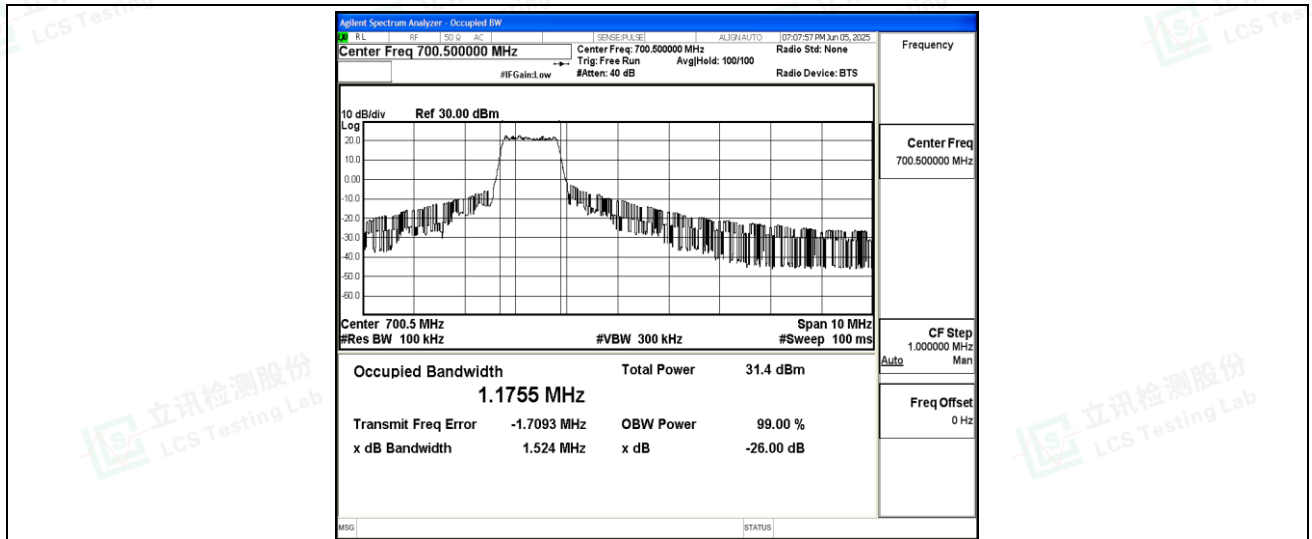
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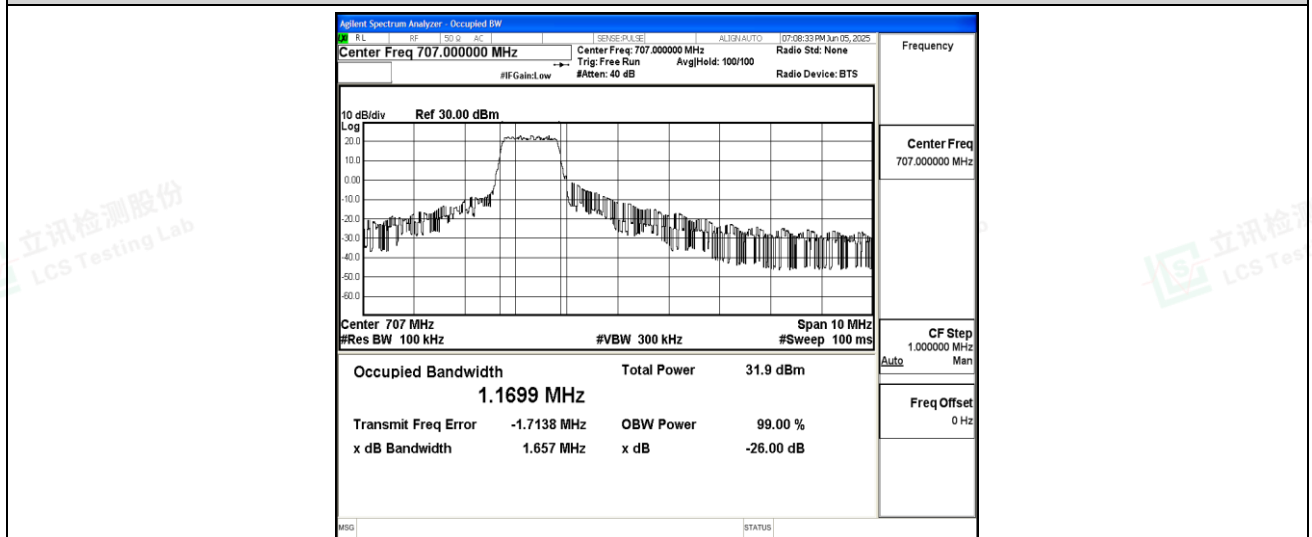
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Test Graphs



Band85-5MHz-QPSK-134027-6-0-Low-1.1755-1.524-PASS



Band85-5MHz-QPSK-134092-6-0-Low-1.1699-1.657-PASS

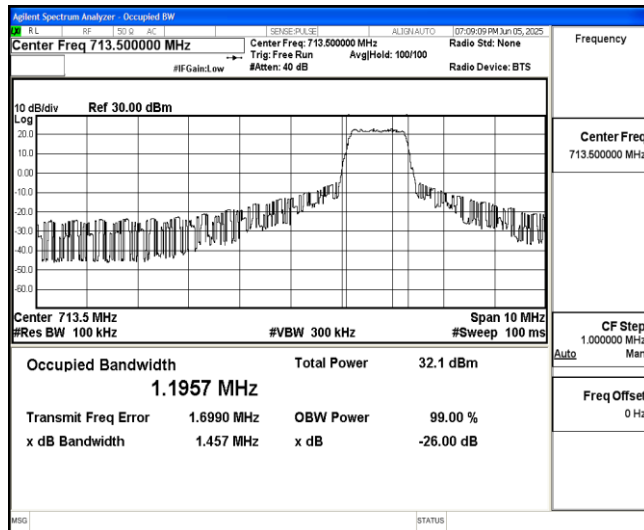


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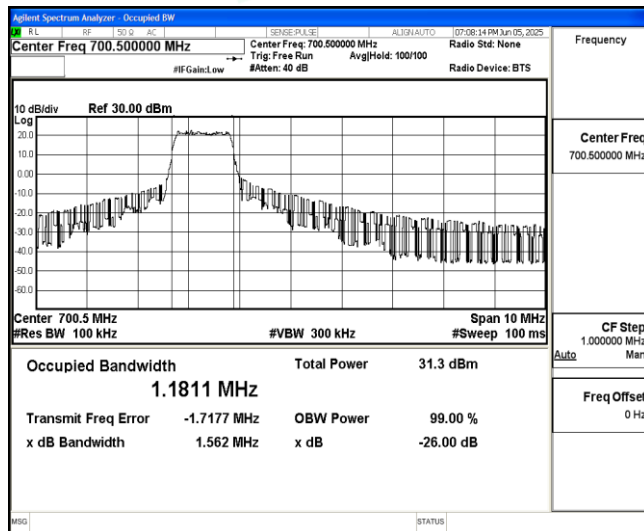
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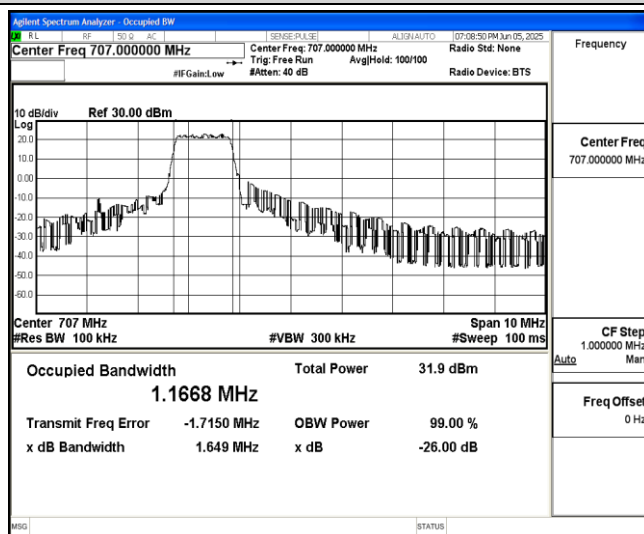
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Band85-5MHz-QPSK-134157-6-0-High-1.1957-1.457-PASS



Band85-5MHz-16QAM-134027-6-0-Low-1.1811-1.562-PASS



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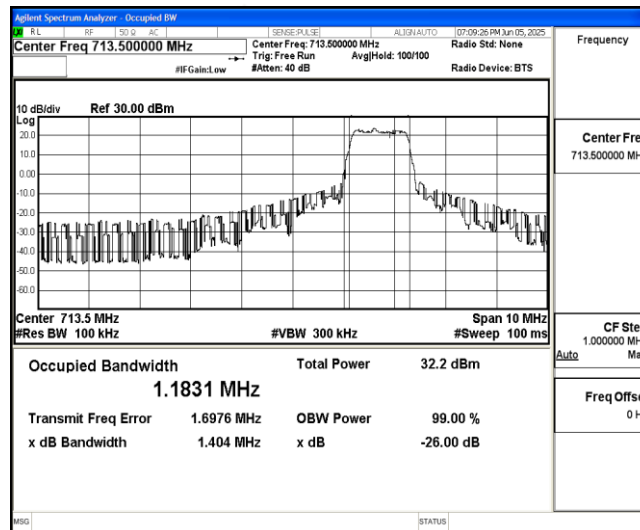
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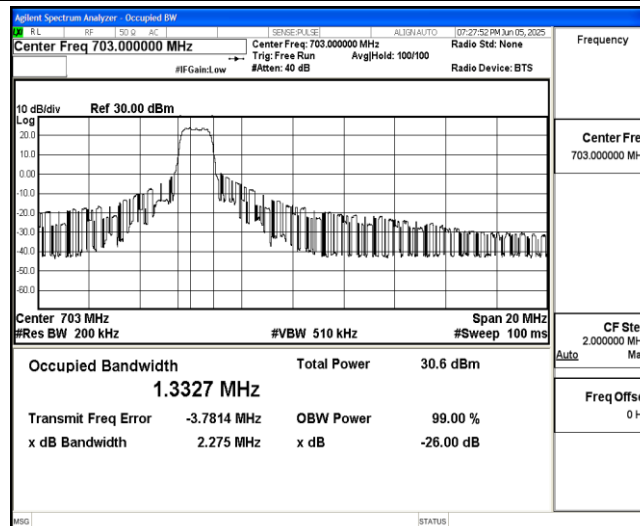
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Band85-5MHz-16QAM-134092-6-0-Low-1.1668-1.649-PASS



Band85-5MHz-16QAM-134157-6-0-High-1.1831-1.404-PASS



Band85-10MHz-QPSK-134052-6-0-Low-1.3327-2.275-PASS

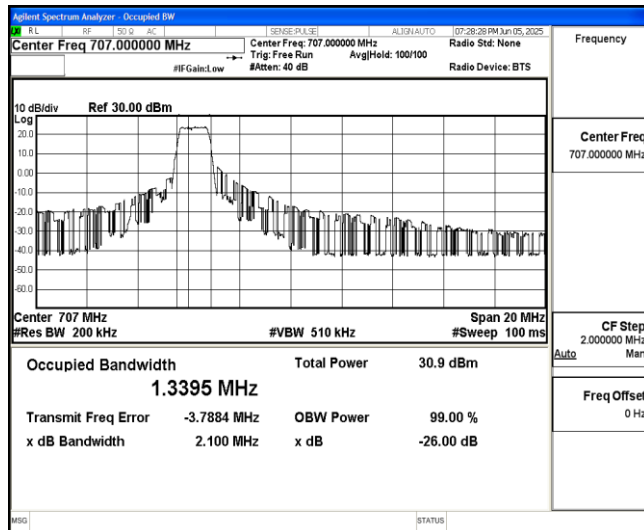


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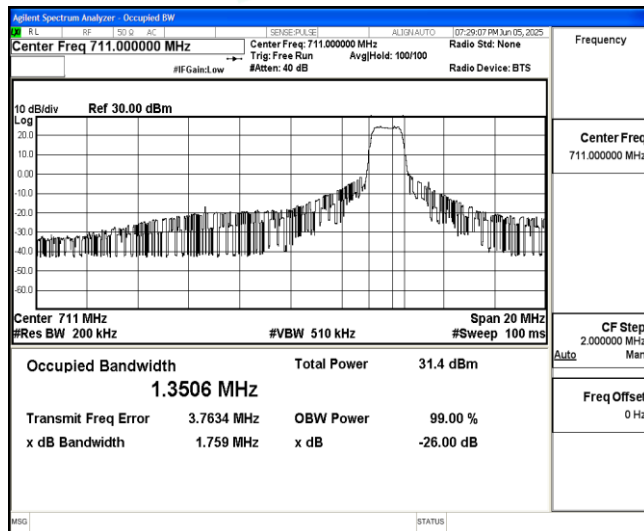
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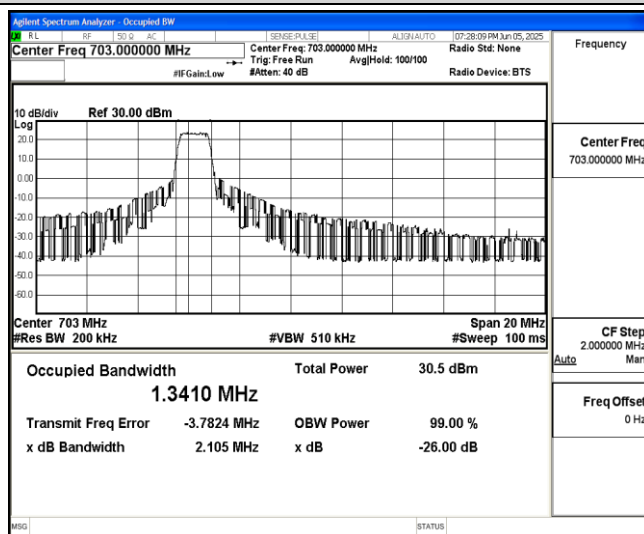
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Band85-10MHz-QPSK-134092-6-0-Low-1.3395-2.100-PASS



Band85-10MHz-QPSK-134132-6-0-High-1.3506-1.759-PASS



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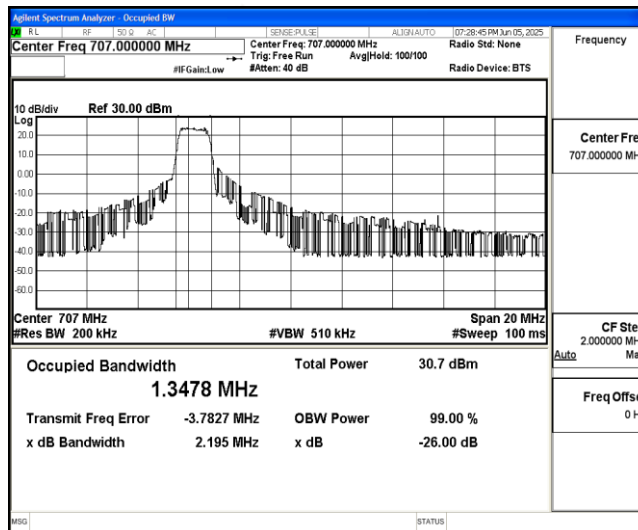
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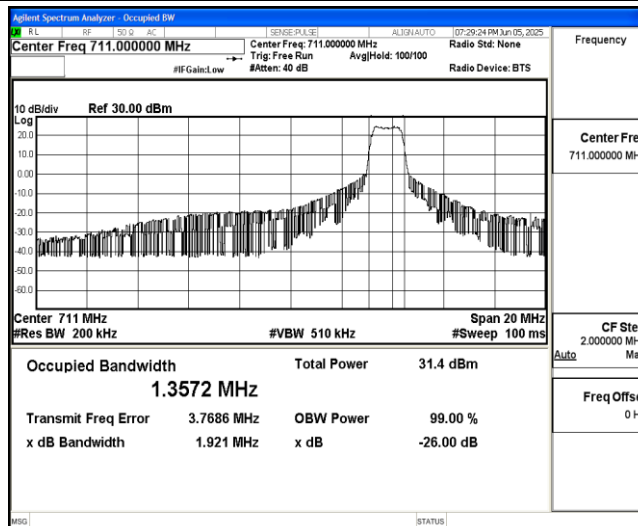
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Band85-10MHz-16QAM-134052-6-0-Low-1.3410-2.105-PASS



Band85-10MHz-16QAM-134092-6-0-Low-1.3478-2.195-PASS



Band85-10MHz-16QAM-134132-6-0-High-1.3572-1.921-PASS



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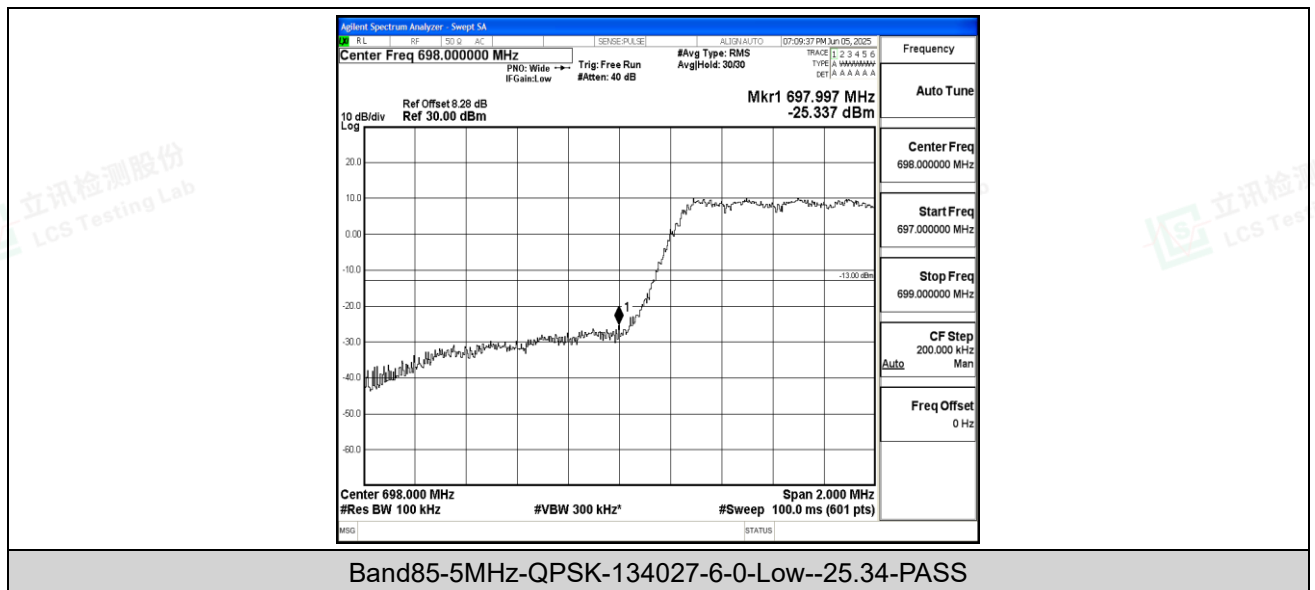


L.4 Band Edge for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Result(dBm)	Verdict
Band85	5MHz	134027	QPSK	6	0	Low	-25.34	PASS
Band85	5MHz	134157	QPSK	6	0	High	-26.09	PASS
Band85	5MHz	134027	16QAM	6	0	Low	-26.10	PASS
Band85	5MHz	134157	16QAM	6	0	High	-25.39	PASS
Band85	10MHz	134052	QPSK	6	0	Low	-26.64	PASS
Band85	10MHz	134132	QPSK	6	0	High	-26.26	PASS
Band85	10MHz	134052	16QAM	6	0	Low	-26.75	PASS
Band85	10MHz	134132	16QAM	6	0	High	-26.33	PASS

Test Graphs

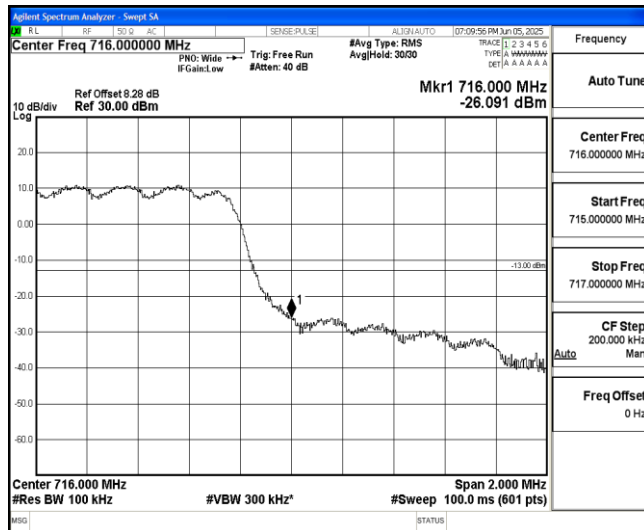


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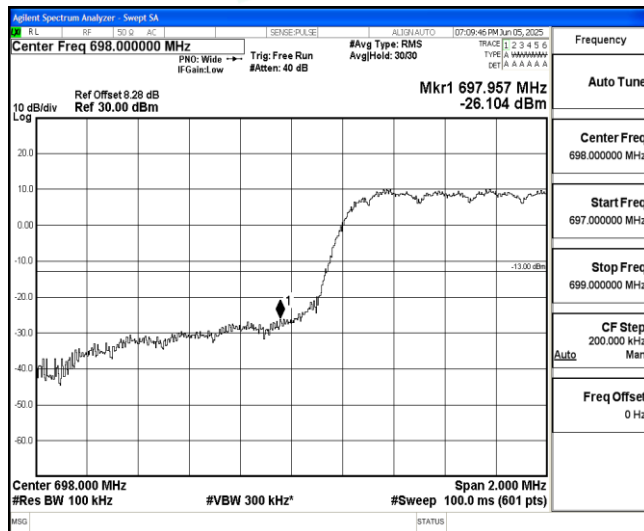
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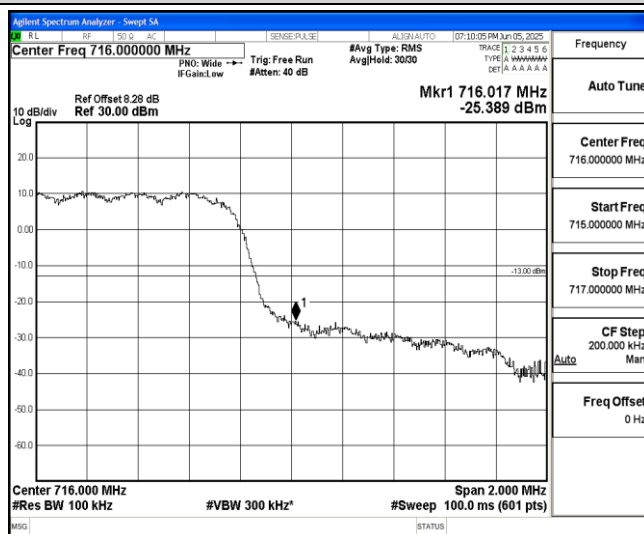
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Band85-5MHz-QPSK-134157-6-0-High--26.09-PASS



Band85-5MHz-16QAM-134027-6-0-Low--26.10-PASS



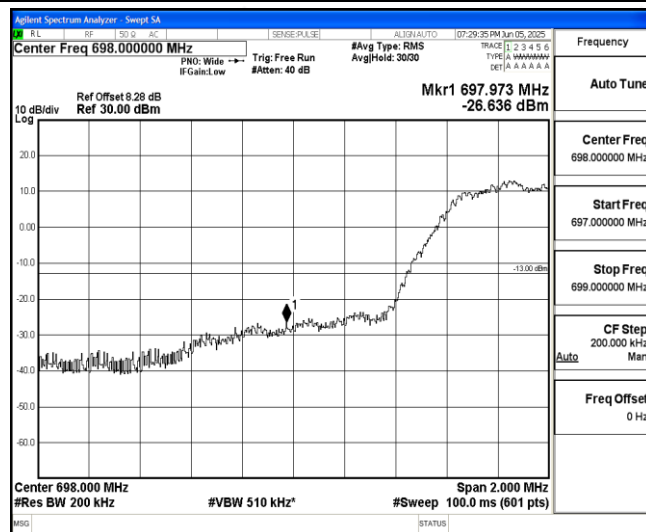
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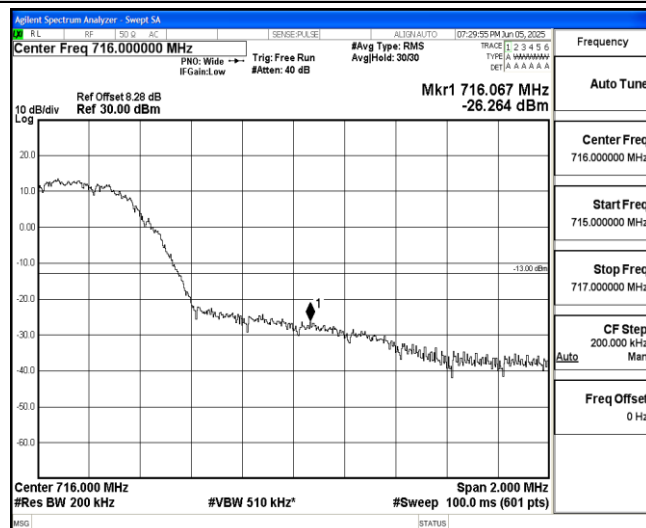
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Band85-5MHz-16QAM-134157-6-0-High--25.39-PASS



Band85-10MHz-QPSK-134052-6-0-Low--26.64-PASS



Band85-10MHz-QPSK-134132-6-0-High--26.26-PASS

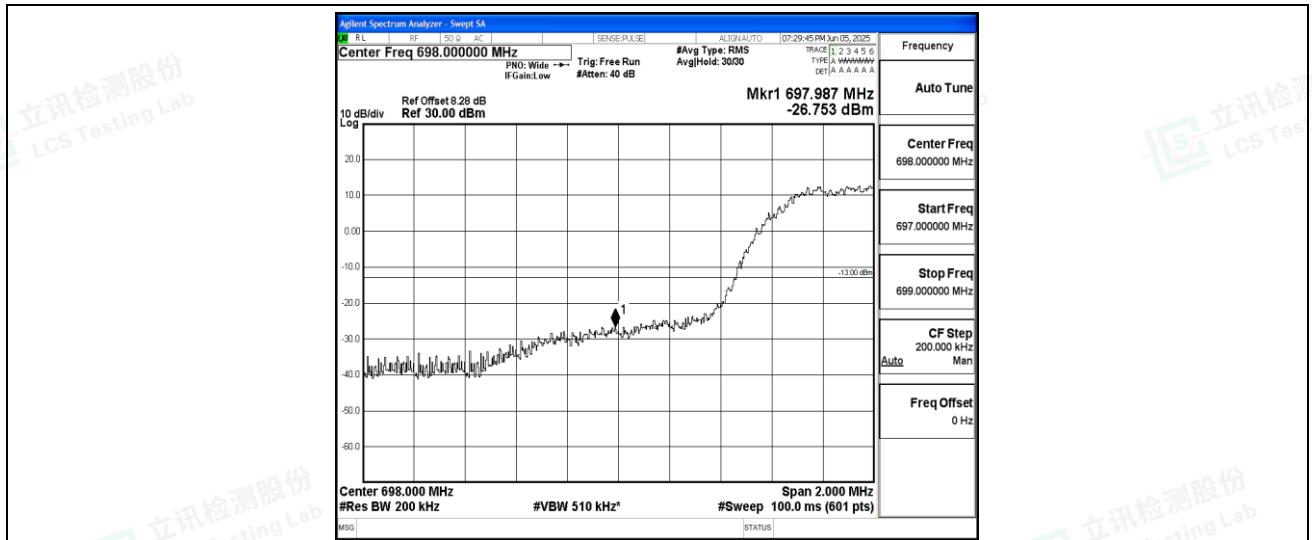


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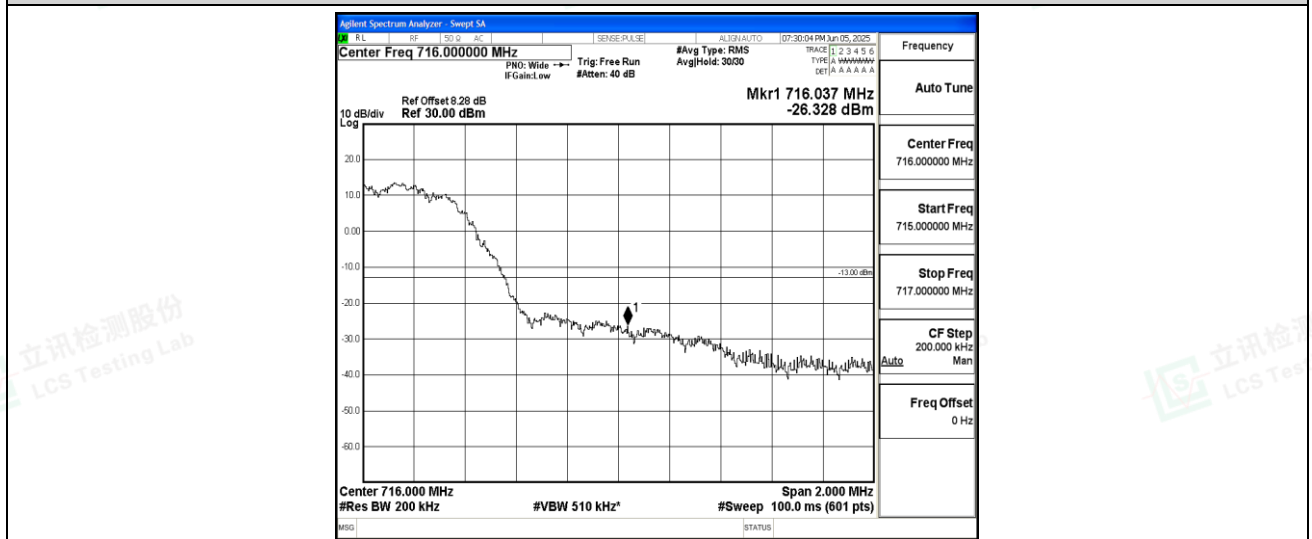
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Band85-10MHz-16QAM-134052-6-0-Low--26.75-PASS



Band85-10MHz-16QAM-134132-6-0-High--26.33-PASS



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L.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
Band85	5MHz	134027	QPSK	1	0	Low	30	1000	-35.01	PASS
Band85	5MHz	134027	QPSK	1	0	Low	1000	5000	-42.13	PASS
Band85	5MHz	134027	QPSK	1	0	Low	5000	12000	-57.95	PASS
Band85	5MHz	134027	QPSK	1	0	Low	12000	26500	-42.81	PASS
Band85	5MHz	134092	QPSK	1	0	Low	30	1000	-34.7	PASS
Band85	5MHz	134092	QPSK	1	0	Low	1000	5000	-42.23	PASS
Band85	5MHz	134092	QPSK	1	0	Low	5000	12000	-57.86	PASS
Band85	5MHz	134092	QPSK	1	0	Low	12000	26500	-42.64	PASS
Band85	5MHz	134157	QPSK	1	0	High	30	1000	-32.22	PASS
Band85	5MHz	134157	QPSK	1	0	High	1000	5000	-41.93	PASS
Band85	5MHz	134157	QPSK	1	0	High	5000	12000	-57.94	PASS
Band85	5MHz	134157	QPSK	1	0	High	12000	26500	-42.83	PASS
Band85	5MHz	134027	16QAM	1	0	Low	30	1000	-35.96	PASS
Band85	5MHz	134027	16QAM	1	0	Low	1000	5000	-42.15	PASS
Band85	5MHz	134027	16QAM	1	0	Low	5000	12000	-57.95	PASS
Band85	5MHz	134027	16QAM	1	0	Low	12000	26500	-42.97	PASS
Band85	5MHz	134092	16QAM	1	0	Low	30	1000	-35.09	PASS
Band85	5MHz	134092	16QAM	1	0	Low	1000	5000	-42.2	PASS
Band85	5MHz	134092	16QAM	1	0	Low	5000	12000	-58.05	PASS
Band85	5MHz	134092	16QAM	1	0	Low	12000	26500	-42.87	PASS
Band85	5MHz	134157	16QAM	1	0	High	30	1000	-33.75	PASS
Band85	5MHz	134157	16QAM	1	0	High	1000	5000	-41.93	PASS
Band85	5MHz	134157	16QAM	1	0	High	5000	12000	-57.76	PASS
Band85	5MHz	134157	16QAM	1	0	High	12000	26500	-42.71	PASS
Band85	10MHz	134052	QPSK	1	0	Low	30	1000	-36.27	PASS
Band85	10MHz	134052	QPSK	1	0	Low	1000	5000	-42.21	PASS
Band85	10MHz	134052	QPSK	1	0	Low	5000	12000	-57.95	PASS
Band85	10MHz	134052	QPSK	1	0	Low	12000	26500	-42.86	PASS
Band85	10MHz	134092	QPSK	1	0	Low	30	1000	-33.69	PASS
Band85	10MHz	134092	QPSK	1	0	Low	1000	5000	-42.27	PASS
Band85	10MHz	134092	QPSK	1	0	Low	5000	12000	-57.6	PASS
Band85	10MHz	134092	QPSK	1	0	Low	12000	26500	-42.98	PASS
Band85	10MHz	134132	QPSK	1	0	High	30	1000	-32.76	PASS
Band85	10MHz	134132	QPSK	1	0	High	1000	5000	-42.26	PASS



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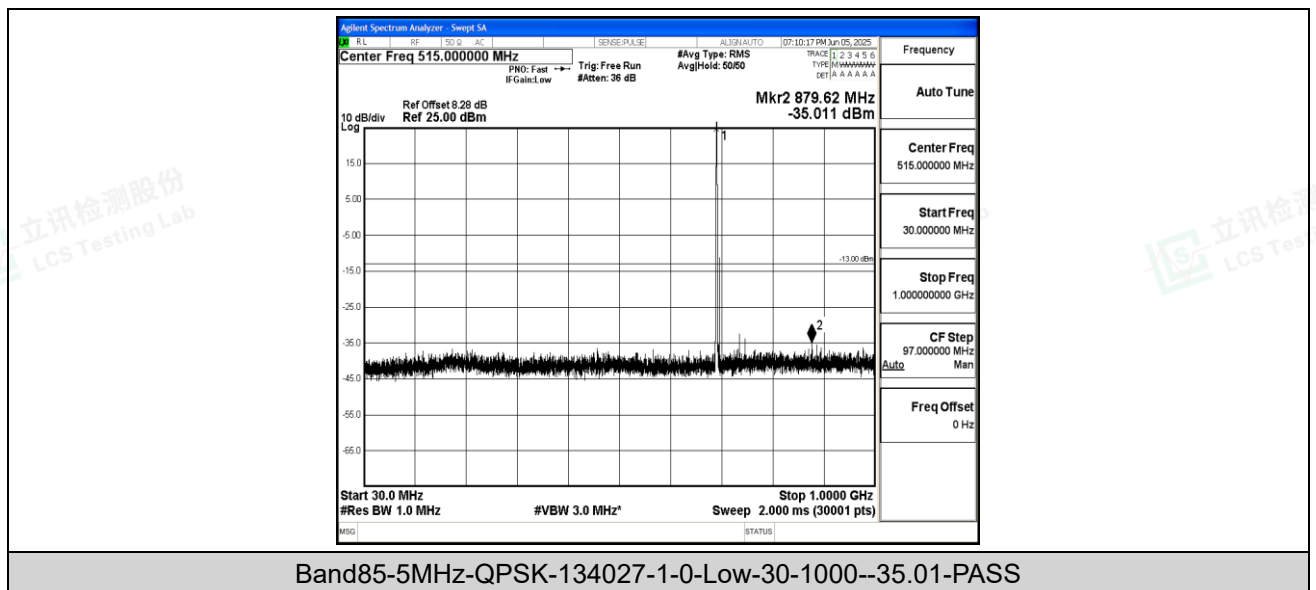
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Band85	10MHz	134132	QPSK	1	0	High	5000	12000	-57.74	PASS
Band85	10MHz	134132	QPSK	1	0	High	12000	26500	-42.9	PASS
Band85	10MHz	134052	16QAM	1	0	Low	30	1000	-36.08	PASS
Band85	10MHz	134052	16QAM	1	0	Low	1000	5000	-42.04	PASS
Band85	10MHz	134052	16QAM	1	0	Low	5000	12000	-57.85	PASS
Band85	10MHz	134052	16QAM	1	0	Low	12000	26500	-43.07	PASS
Band85	10MHz	134092	16QAM	1	0	Low	30	1000	-35.13	PASS
Band85	10MHz	134092	16QAM	1	0	Low	1000	5000	-42.23	PASS
Band85	10MHz	134092	16QAM	1	0	Low	5000	12000	-58	PASS
Band85	10MHz	134092	16QAM	1	0	Low	12000	26500	-42.74	PASS
Band85	10MHz	134132	16QAM	1	0	High	30	1000	-34.93	PASS
Band85	10MHz	134132	16QAM	1	0	High	1000	5000	-41.89	PASS
Band85	10MHz	134132	16QAM	1	0	High	5000	12000	-57.82	PASS
Band85	10MHz	134132	16QAM	1	0	High	12000	26500	-42.9	PASS

Test Graphs

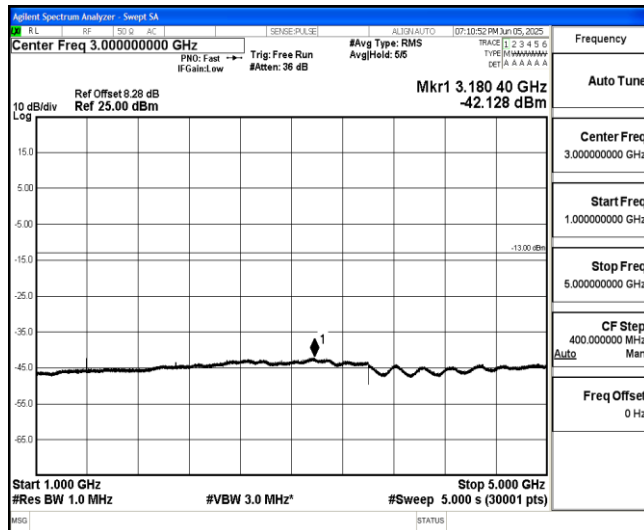


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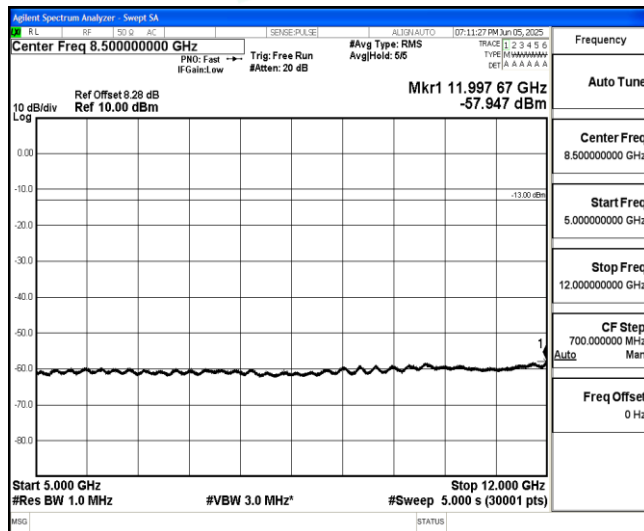
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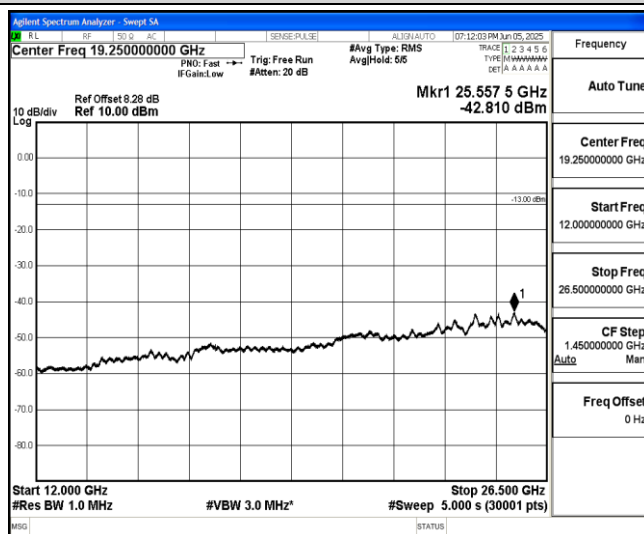
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Band85-5MHz-QPSK-134027-1-0-Low-1000-5000--42.13-PASS



Band85-5MHz-QPSK-134027-1-0-Low-5000-12000--57.95-PASS



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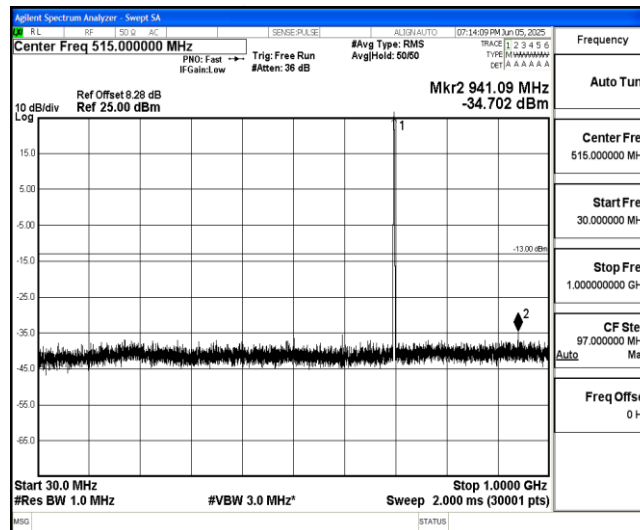
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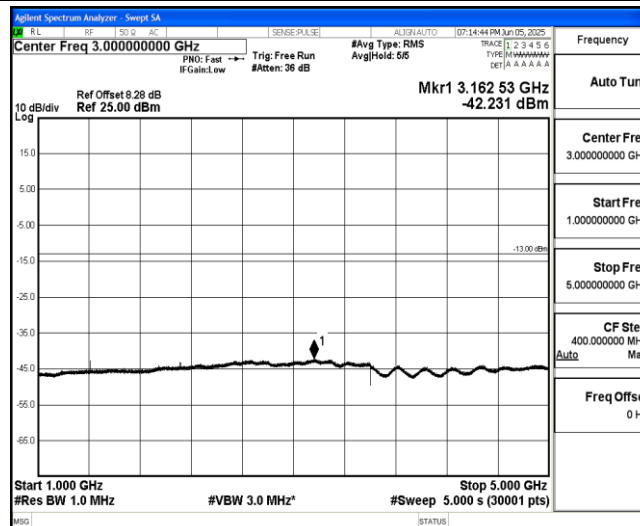
Scan code to check authenticity



Band85-5MHz-QPSK-134027-1-0-Low-12000-26500--42.81-PASS



Band85-5MHz-QPSK-134092-1-0-Low-30-1000--34.7-PASS



Band85-5MHz-QPSK-134092-1-0-Low-1000-5000--42.23-PASS

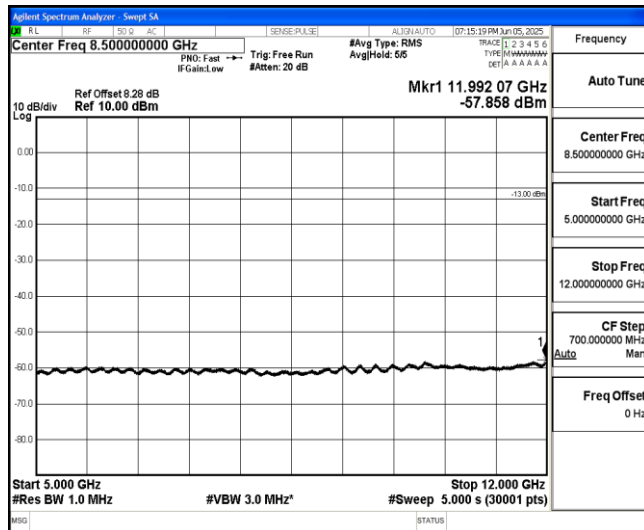


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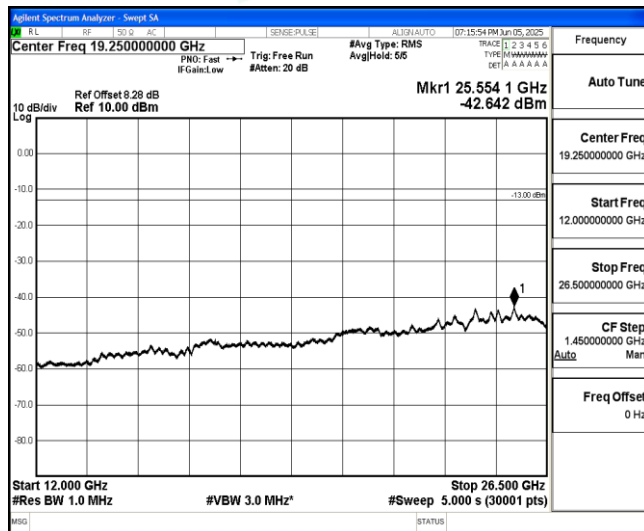
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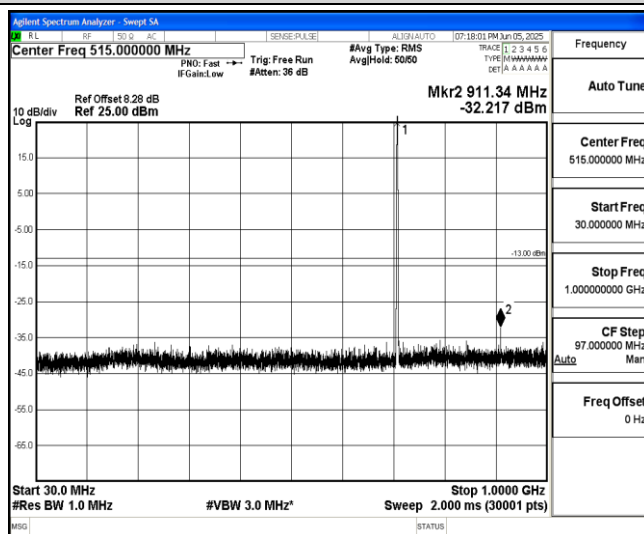
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Band85-5MHz-QPSK-134092-1-0-Low-5000-12000--57.86-PASS



Band85-5MHz-QPSK-134092-1-0-Low-12000-26500--42.64-PASS



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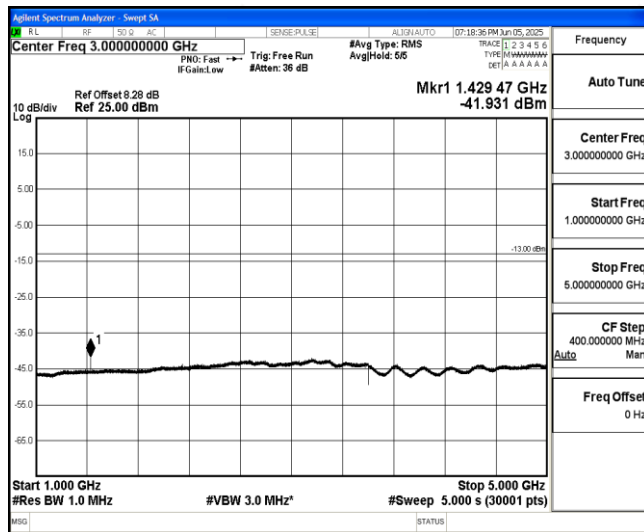
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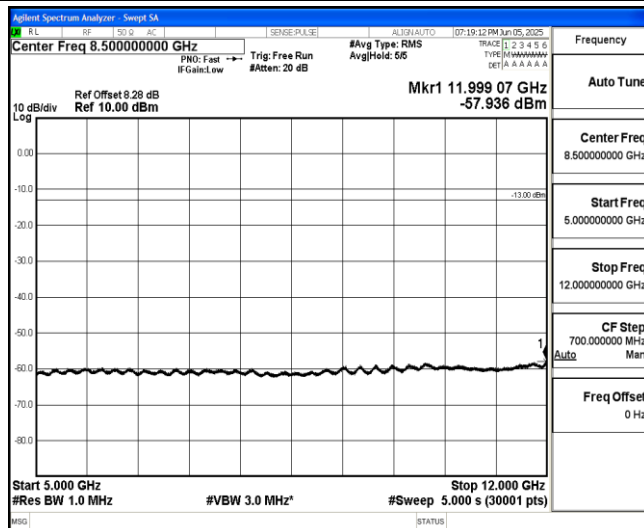
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Band85-5MHz-QPSK-134157-1-0-High-30-1000--32.22-PASS



Band85-5MHz-QPSK-134157-1-0-High-1000-5000--41.93-PASS



Band85-5MHz-QPSK-134157-1-0-High-5000-12000--57.94-PASS

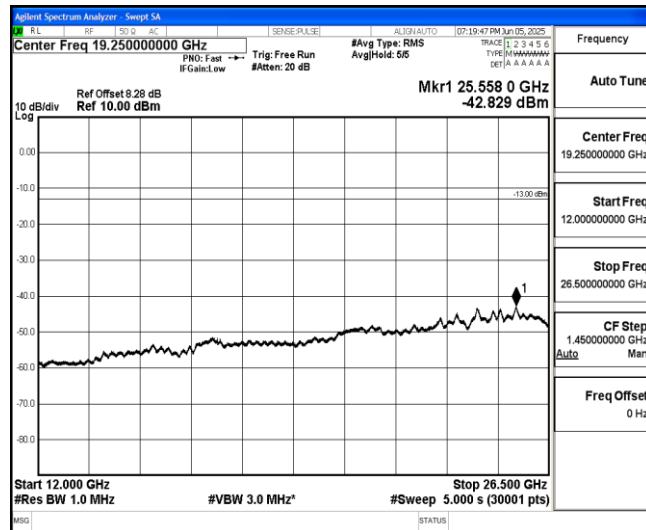


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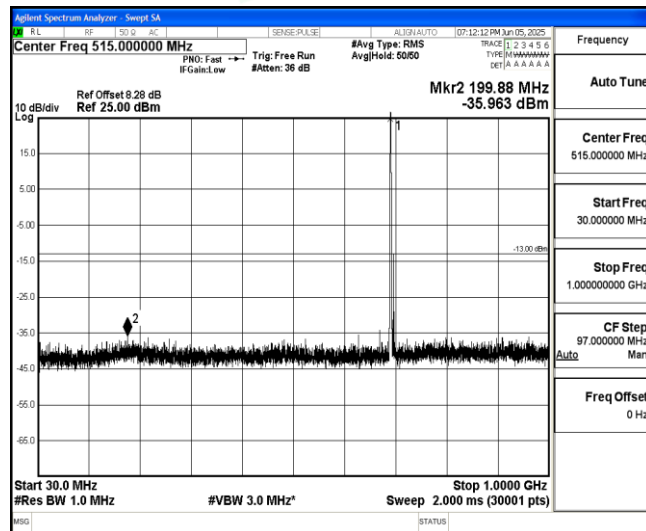
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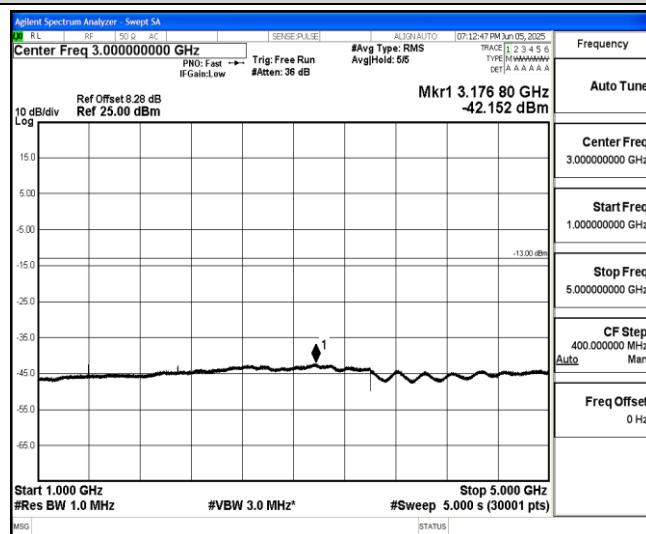
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Band85-5MHz-QPSK-134157-1-0-High-12000-26500--42.83-PASS



Band85-5MHz-16QAM-134027-1-0-Low-30-1000--35.96-PASS



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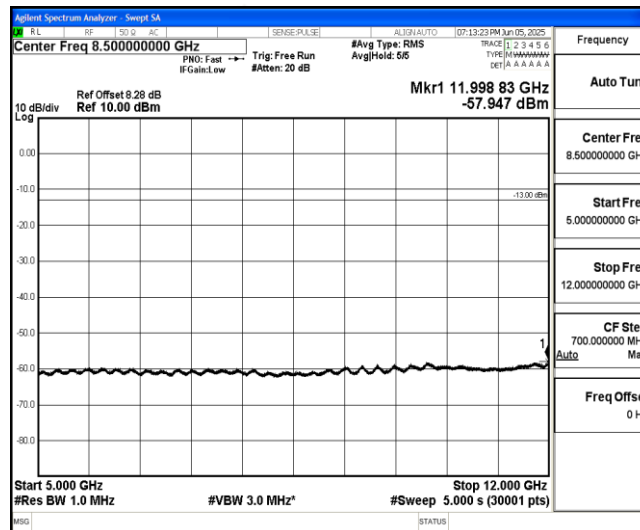
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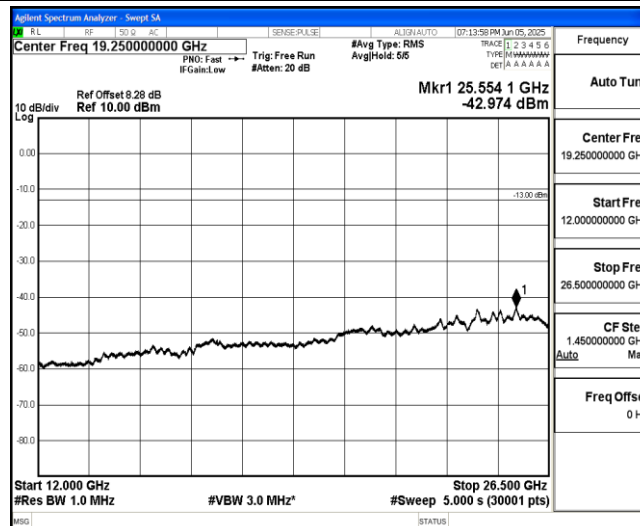
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Band85-5MHz-16QAM-134027-1-0-Low-1000-5000--42.15-PASS



Band85-5MHz-16QAM-134027-1-0-Low-5000-12000--57.95-PASS



Band85-5MHz-16QAM-134027-1-0-Low-12000-26500--42.97-PASS

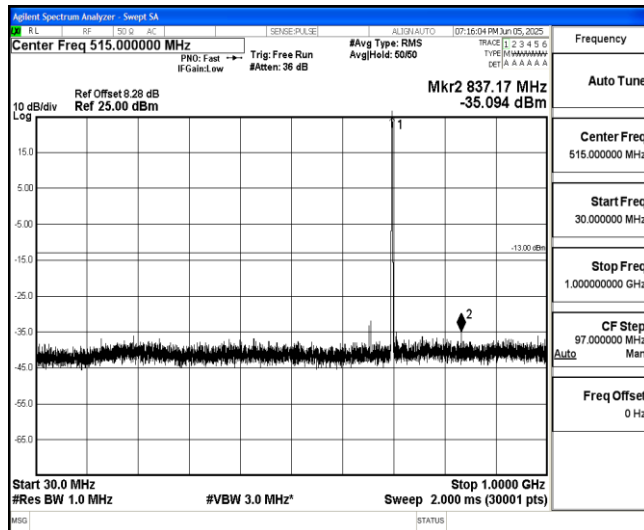


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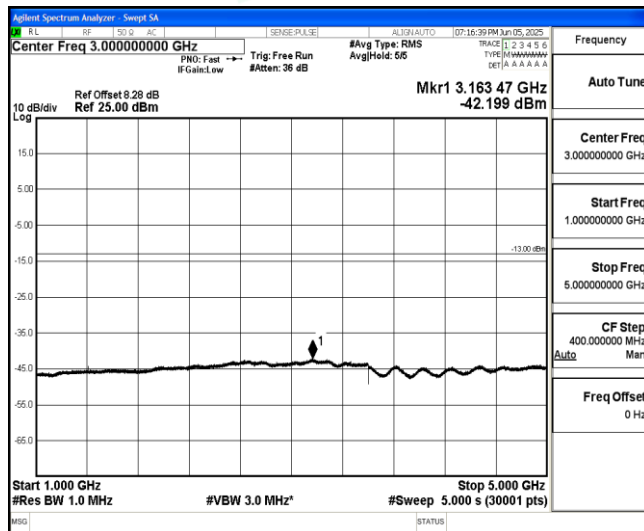
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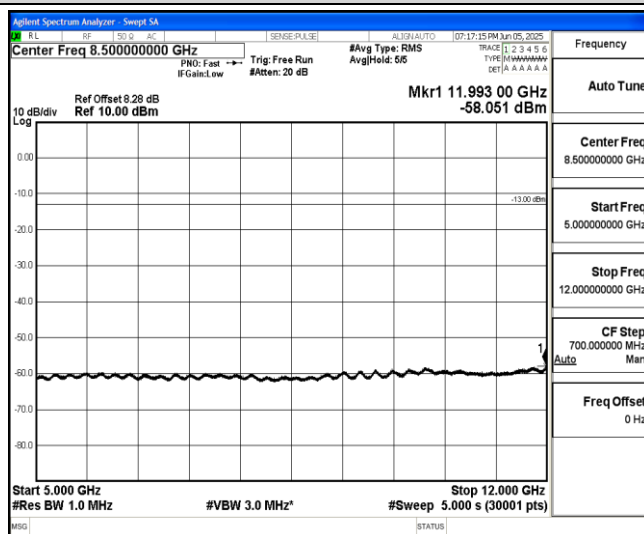
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Band85-5MHz-16QAM-134092-1-0-Low-30-1000--35.09-PASS



Band85-5MHz-16QAM-134092-1-0-Low-1000-5000--42.2-PASS



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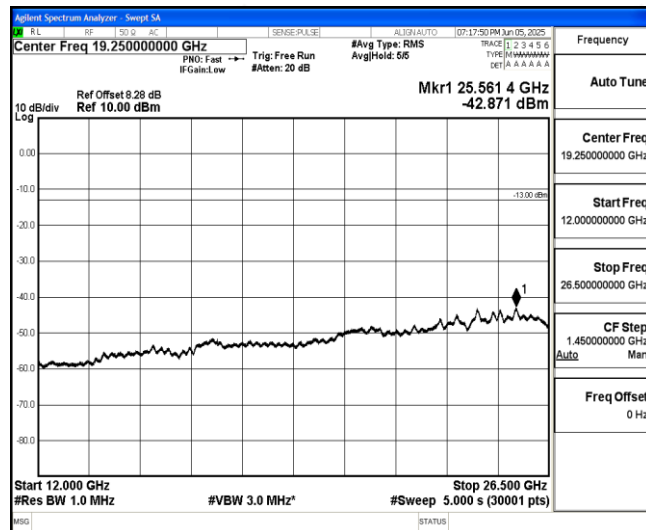
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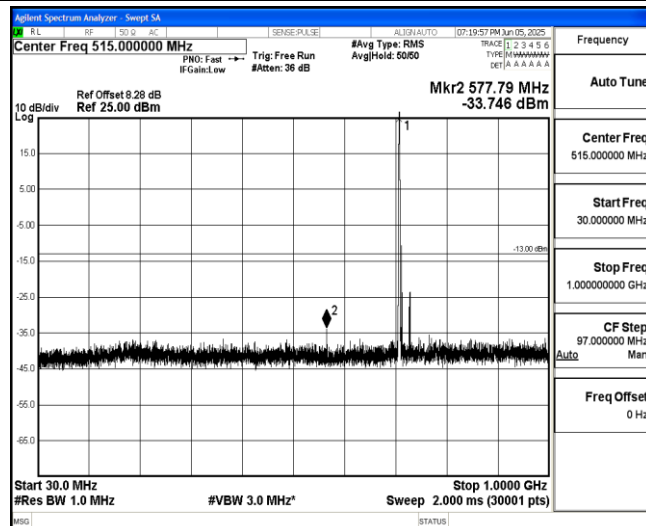
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Band85-5MHz-16QAM-134092-1-0-Low-5000-12000--58.05-PASS



Band85-5MHz-16QAM-134092-1-0-Low-12000-26500--42.87-PASS



Band85-5MHz-16QAM-134157-1-0-High-30-1000--33.75-PASS

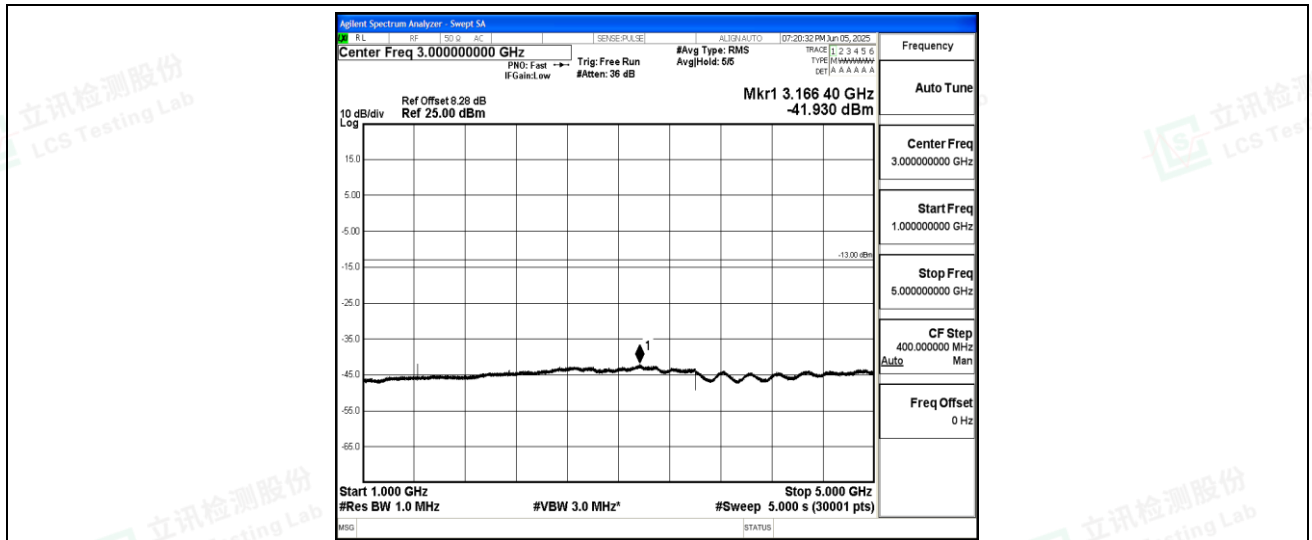


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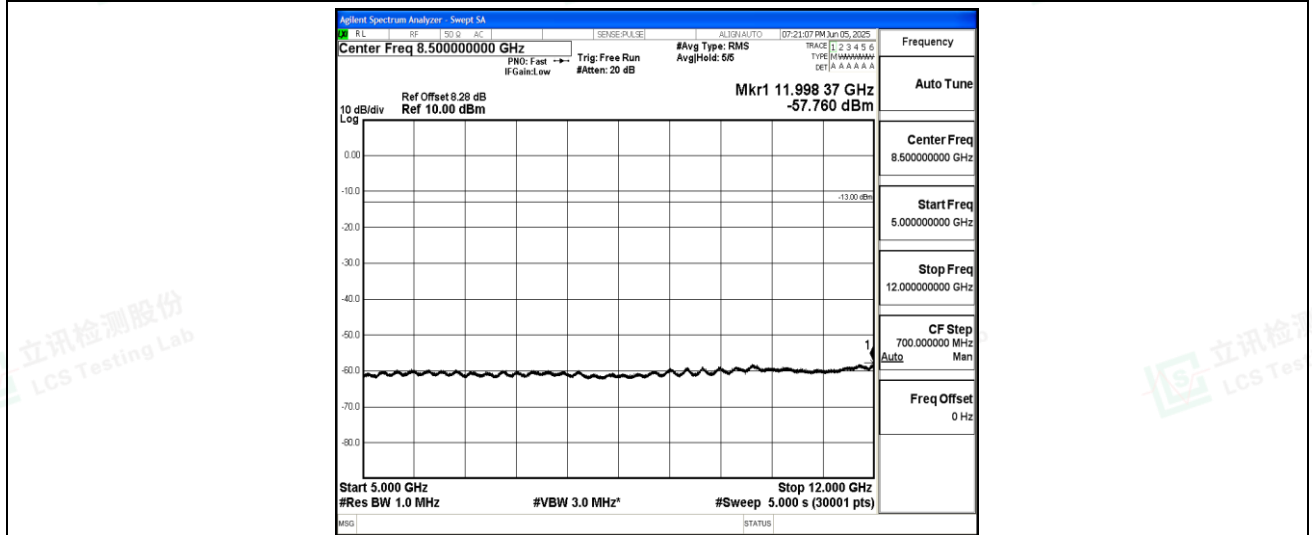
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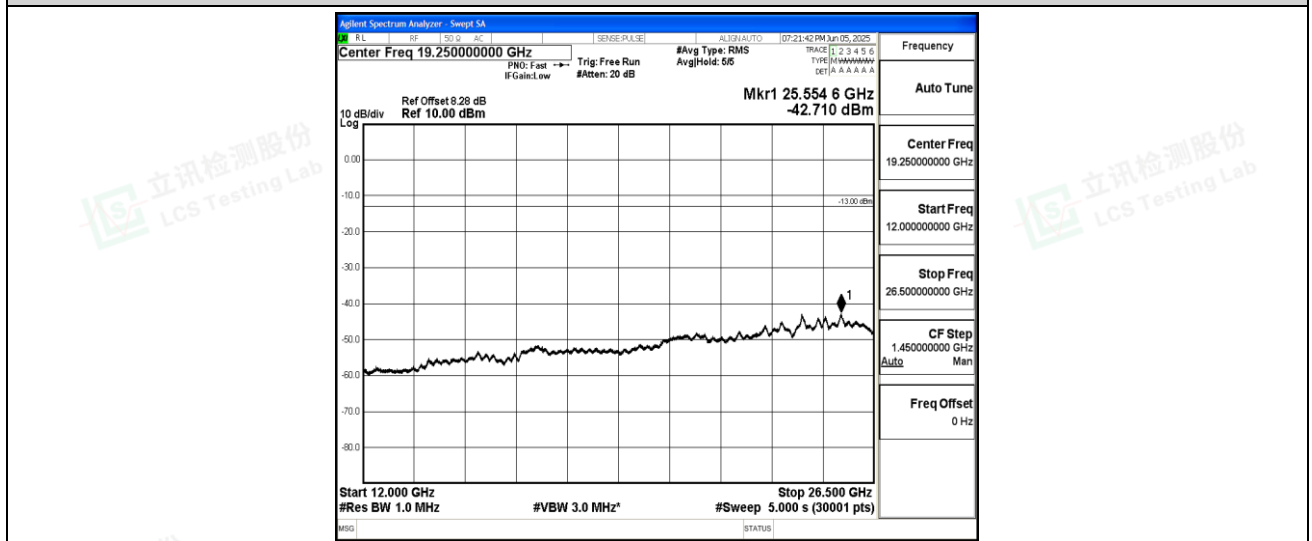
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Band85-5MHz-16QAM-134157-1-0-High-1000-5000--41.93-PASS



Band85-5MHz-16QAM-134157-1-0-High-5000-12000--57.76-PASS



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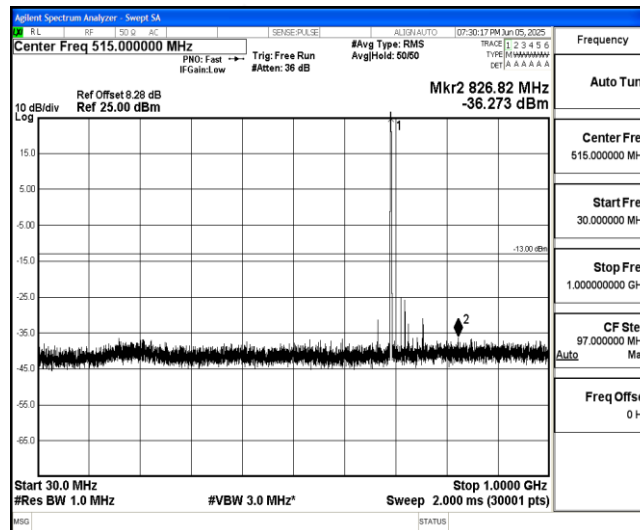
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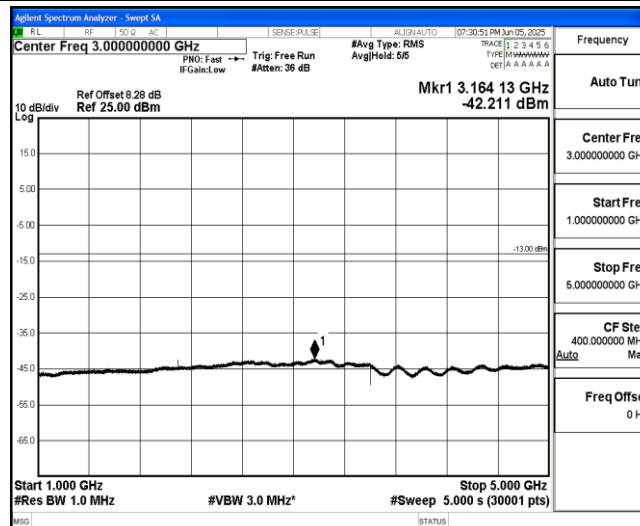
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Band85-5MHz-16QAM-134157-1-0-High-12000-26500--42.71-PASS



Band85-10MHz-QPSK-134052-1-0-Low-30-1000--36.27-PASS



Band85-10MHz-QPSK-134052-1-0-Low-1000-5000--42.21-PASS

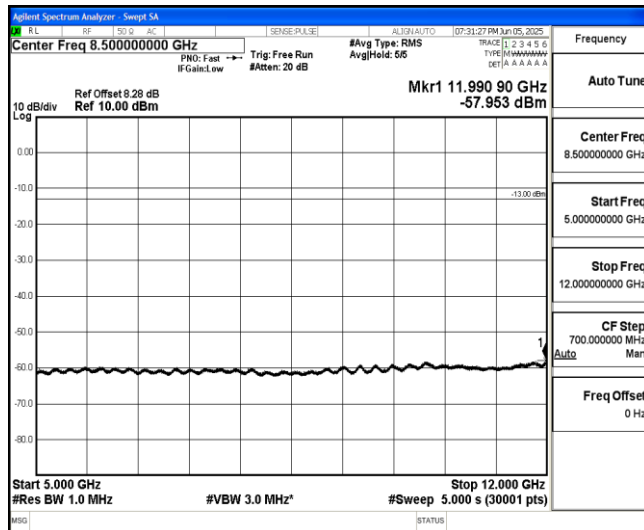


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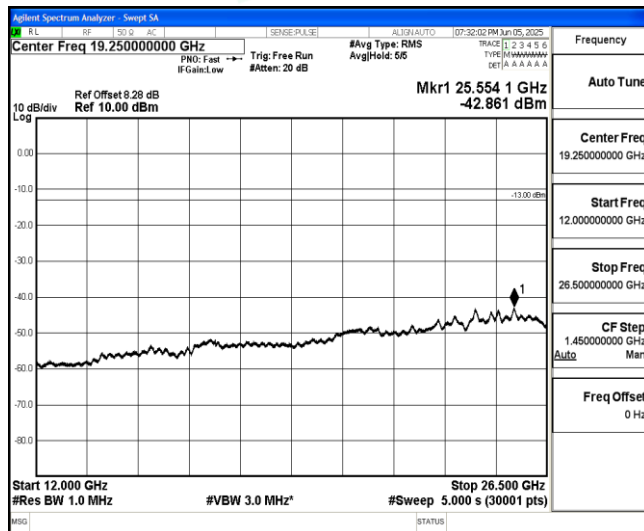
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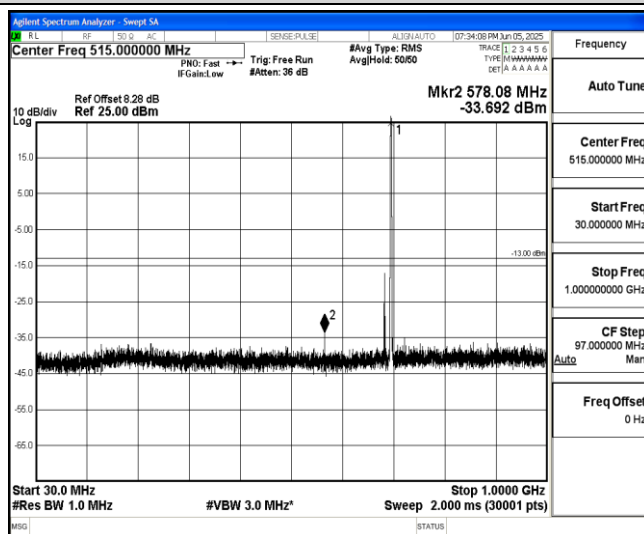
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Band85-10MHz-QPSK-134052-1-0-Low-5000-12000--57.95-PASS



Band85-10MHz-QPSK-134052-1-0-Low-12000-26500--42.86-PASS



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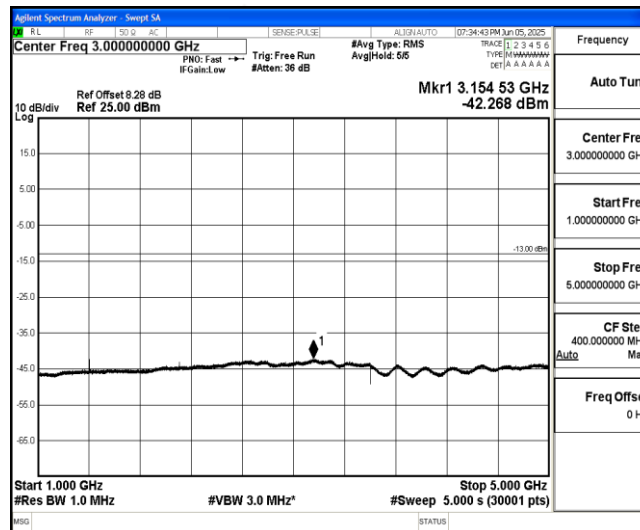
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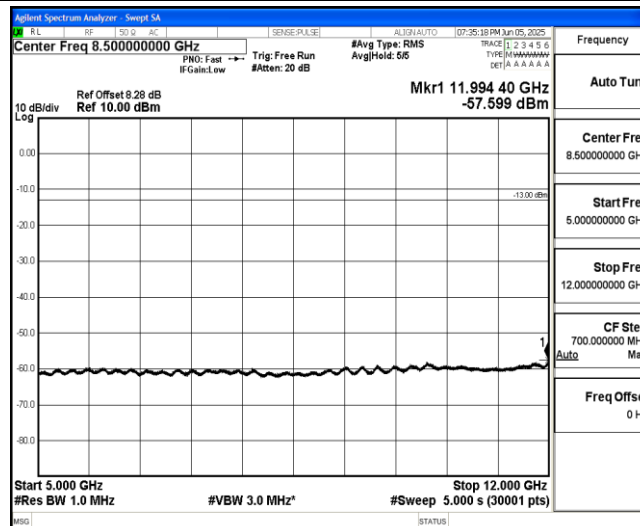
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Band85-10MHz-QPSK-134092-1-0-Low-30-1000--33.69-PASS



Band85-10MHz-QPSK-134092-1-0-Low-1000-5000--42.27-PASS



Band85-10MHz-QPSK-134092-1-0-Low-5000-12000--57.6-PASS

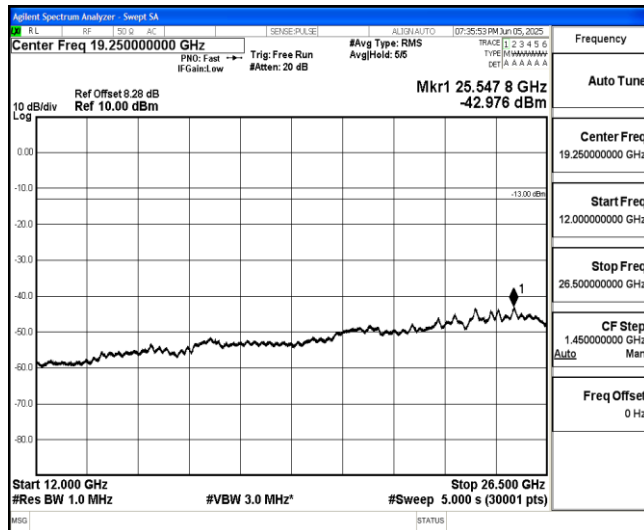


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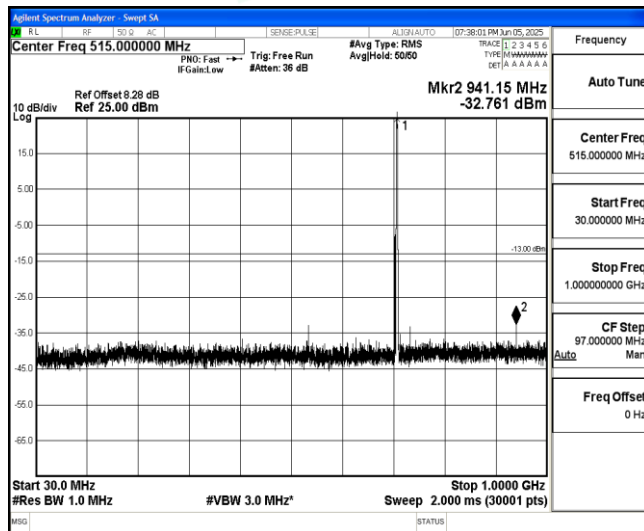
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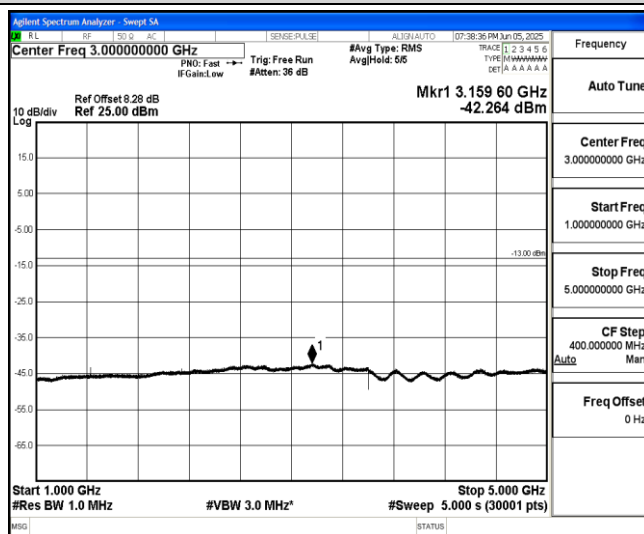
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Band85-10MHz-QPSK-134092-1-0-Low-12000-26500--42.98-PASS



Band85-10MHz-QPSK-134132-1-0-High-30-1000--32.76-PASS



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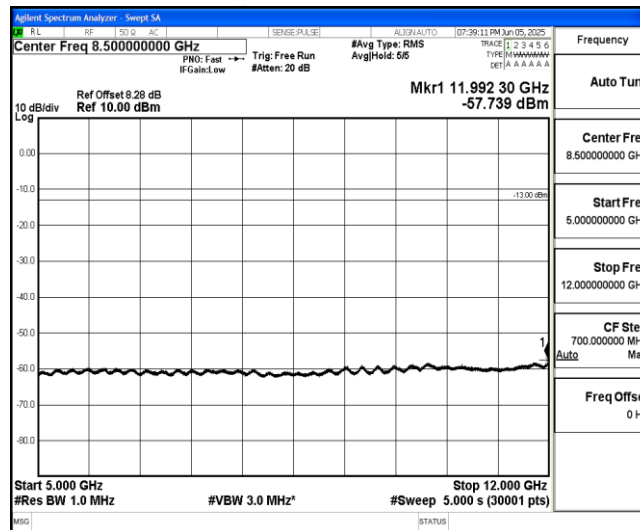
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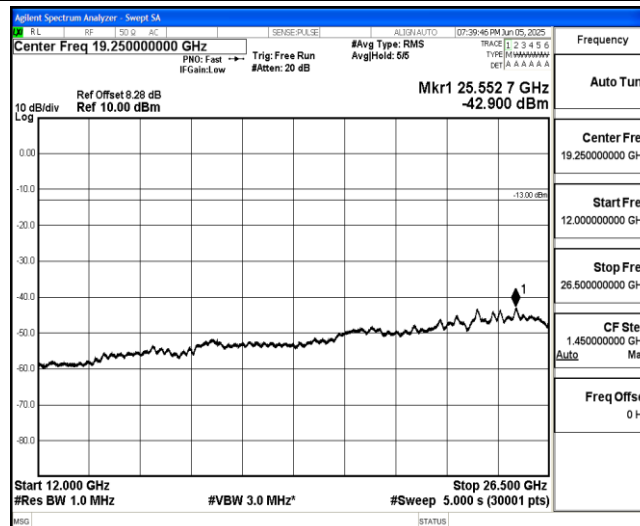
Scan code to check authenticity



Band85-10MHz-QPSK-134132-1-0-High-1000-5000--42.26-PASS



Band85-10MHz-QPSK-134132-1-0-High-5000-12000--57.74-PASS



Band85-10MHz-QPSK-134132-1-0-High-12000-26500--42.9-PASS

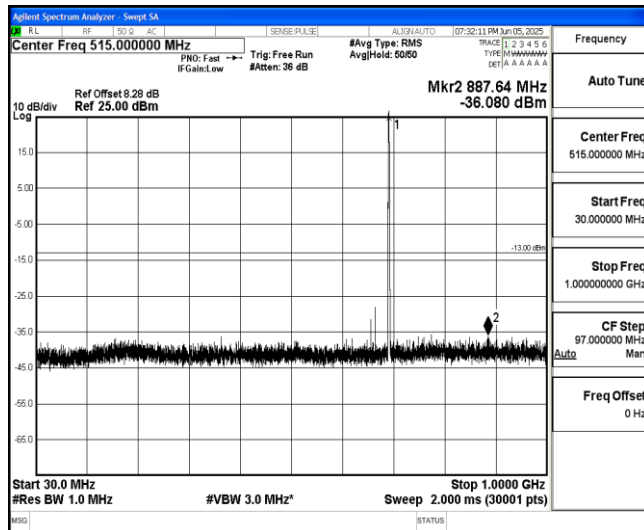


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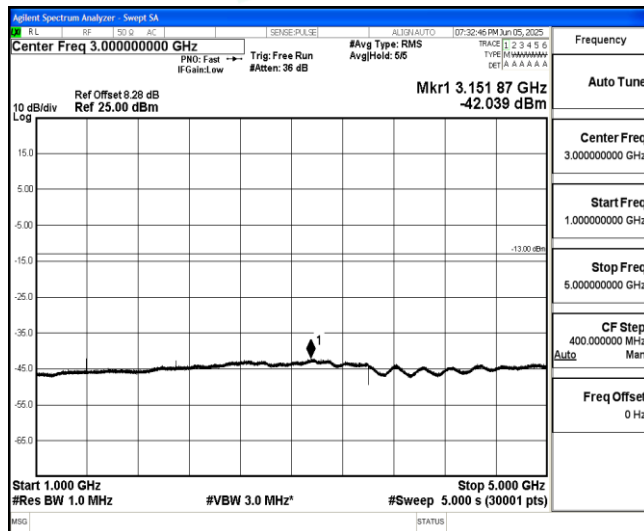
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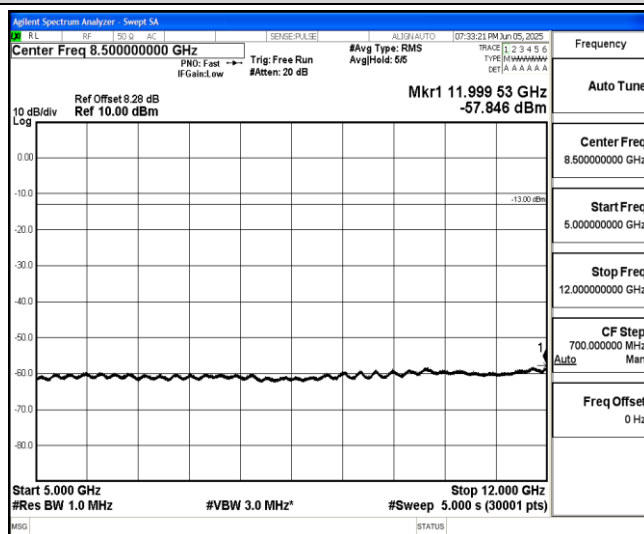
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Band85-10MHz-16QAM-134052-1-0-Low-30-1000--36.08-PASS



Band85-10MHz-16QAM-134052-1-0-Low-1000-5000--42.04-PASS



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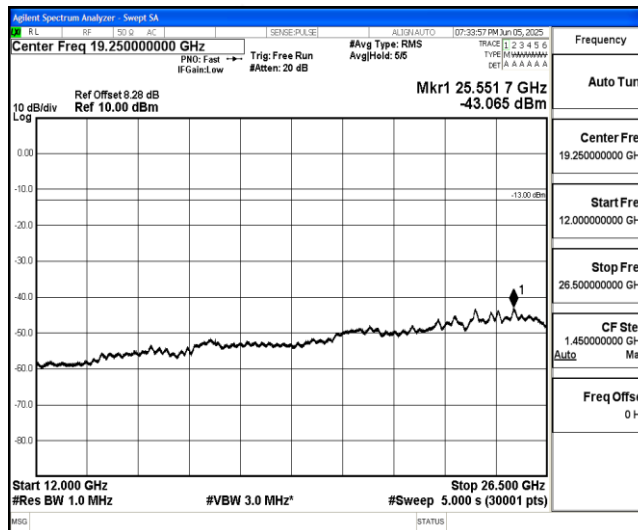
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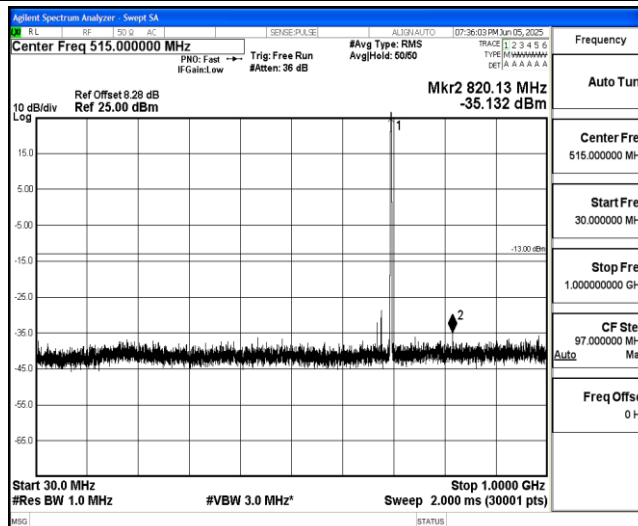
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Band85-10MHz-16QAM-134052-1-0-Low-5000-12000--57.85-PASS



Band85-10MHz-16QAM-134052-1-0-Low-12000-26500--43.07-PASS



Band85-10MHz-16QAM-134092-1-0-Low-30-1000--35.13-PASS

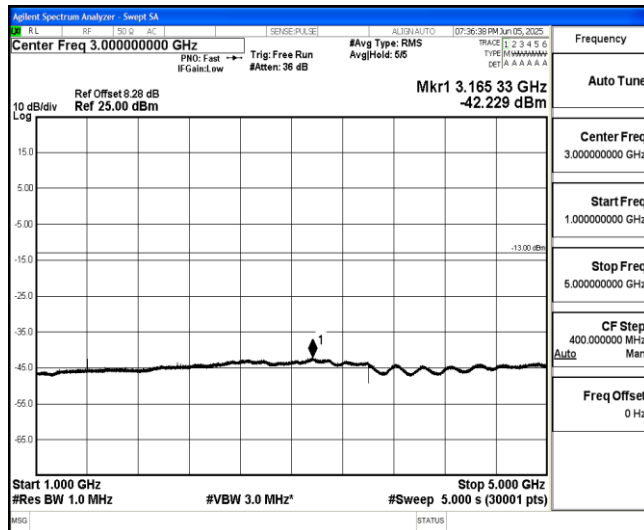


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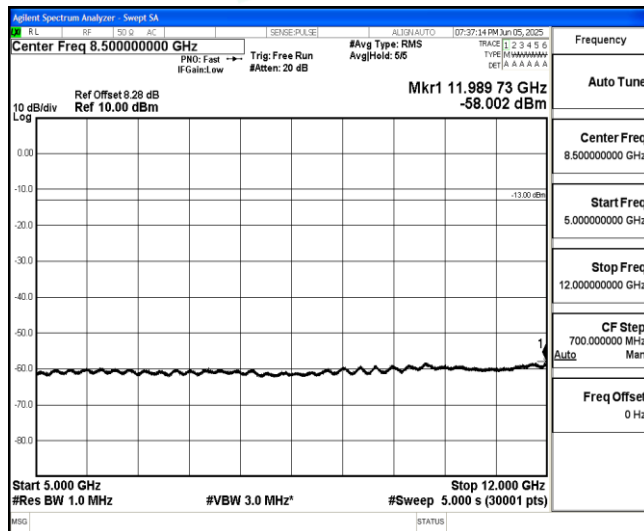
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

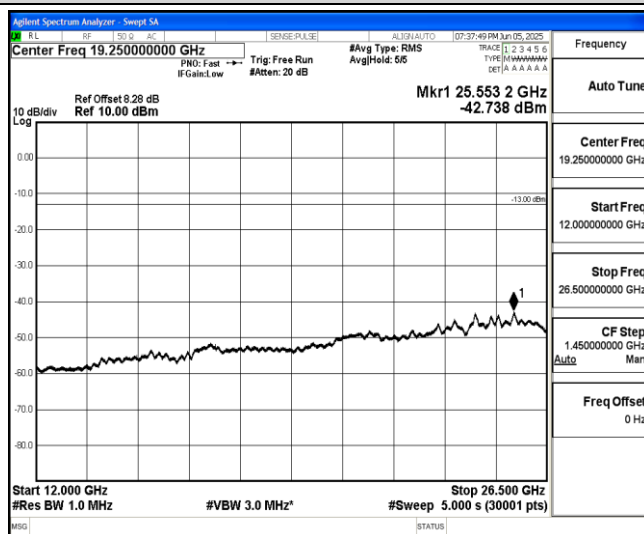
Scan code to check authenticity



Band85-10MHz-16QAM-134092-1-0-Low-1000-5000--42.23-PASS



Band85-10MHz-16QAM-134092-1-0-Low-5000-12000--58-PASS



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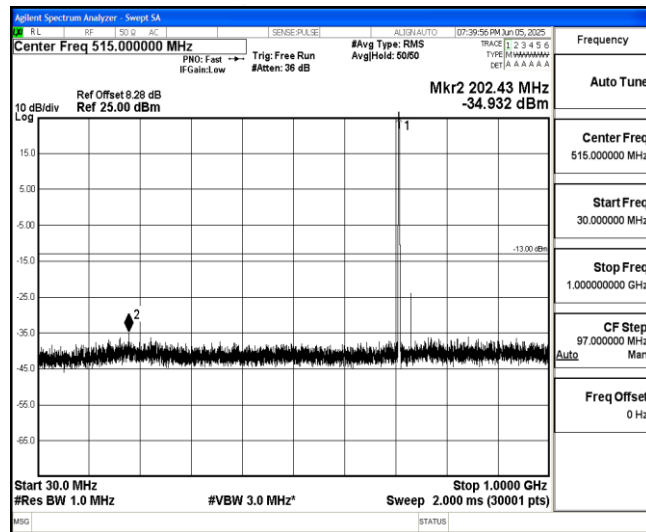
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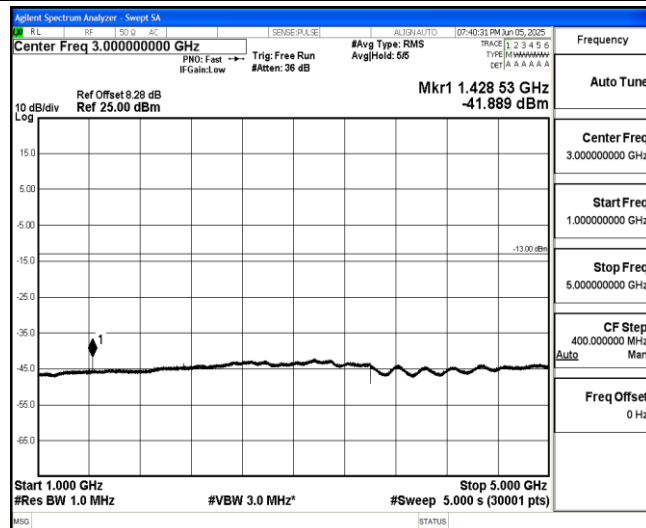
Scan code to check authenticity



Band85-10MHz-16QAM-134092-1-0-Low-12000-26500--42.74-PASS



Band85-10MHz-16QAM-134132-1-0-High-30-1000--34.93-PASS



Band85-10MHz-16QAM-134132-1-0-High-1000-5000--41.89-PASS

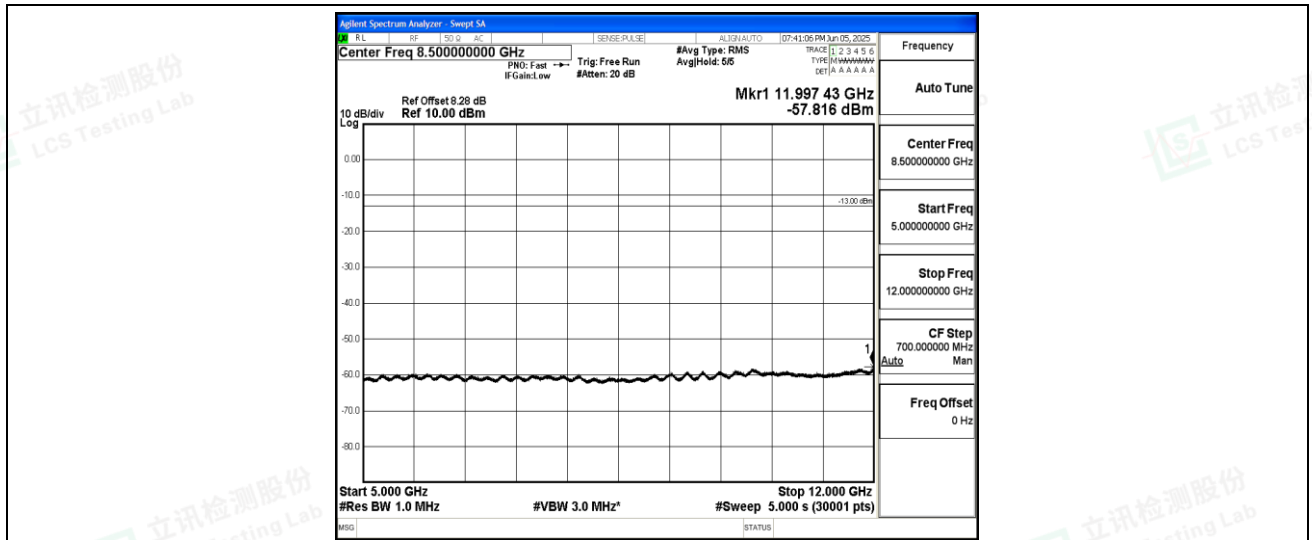


Shenzhen LCS Compliance Testing Laboratory Ltd.

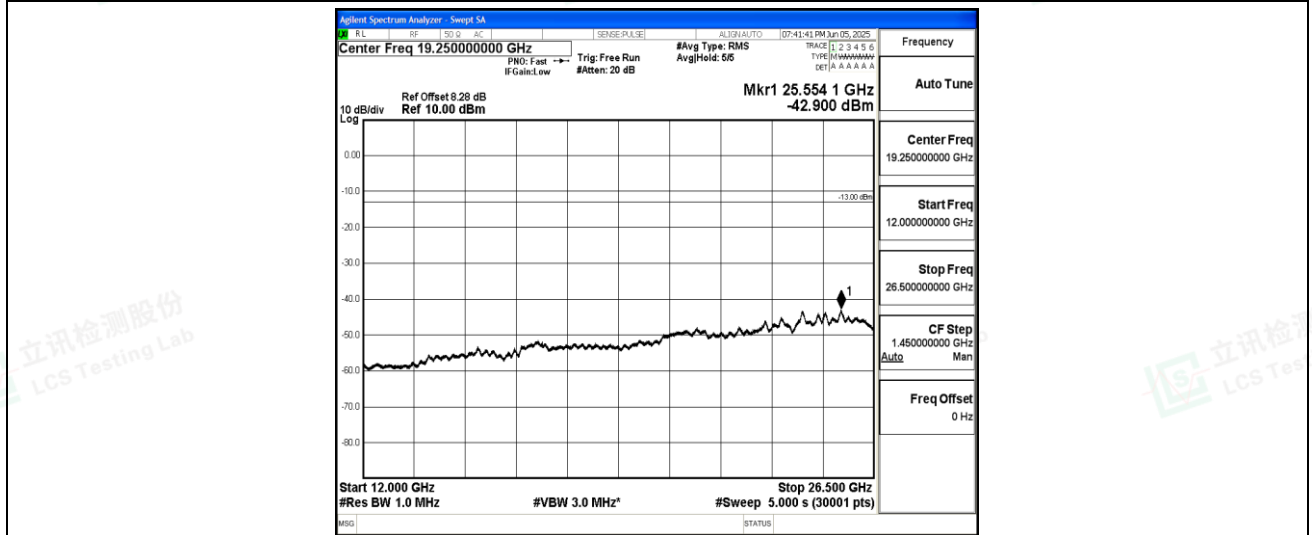
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Band85-10MHz-16QAM-134132-1-0-High-5000-12000--57.82-PASS



Band85-10MHz-16QAM-134132-1-0-High-12000-26500--42.9-PASS



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