



Appendix S: Test Data for NB1 Band 66

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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S.1 Conducted Output Power Data for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@0	21.50	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@47	21.43	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@0	21.47	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@47	21.39	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@0	22.14	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@47	22.13	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	21.49	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	21.42	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	21.47	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	21.39	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	22.29	-999 To 30	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@47	22.11	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	21.47	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@11	21.41	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	3@3	21.58	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	21.44	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@11	21.36	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	3@3	21.47	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	19.90	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@11	19.84	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	3@3	21.99	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@0	21.58	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@11	21.44	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	3@3	21.61	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@0	21.57	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@11	21.49	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	3@3	21.47	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@0	19.93	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@11	19.91	-999 To 30	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	3@3	22.00	-999 To 30	PASS



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S.2 Peak-to-Average Ratio(CCDF) for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Limit (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@0	2.77	<=13	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@47	2.64	<=13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	3.23	<=13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	3.54	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	4.5	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@11	4.4	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	3@3	7.52	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@0	7.93	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@11	7.74	<=13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	3@3	10.82	<=13	PASS



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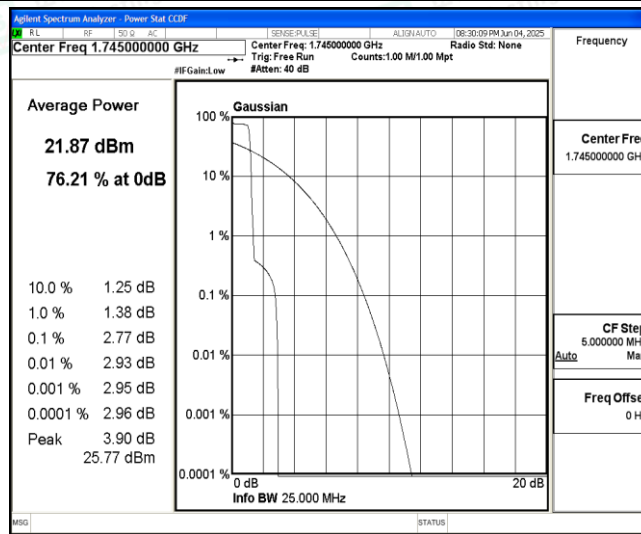
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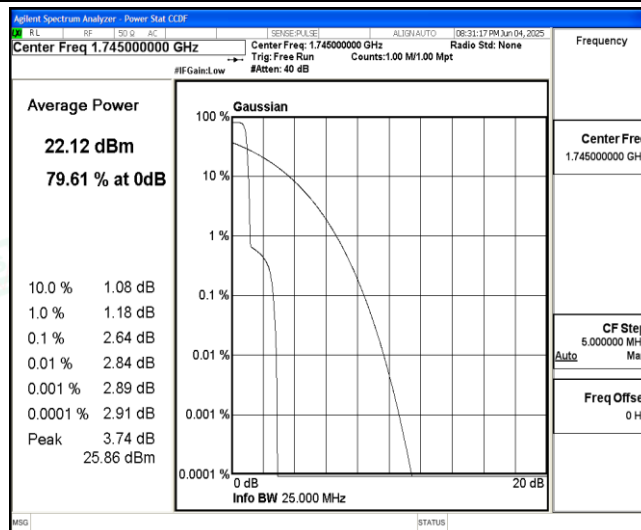
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Test Graphs



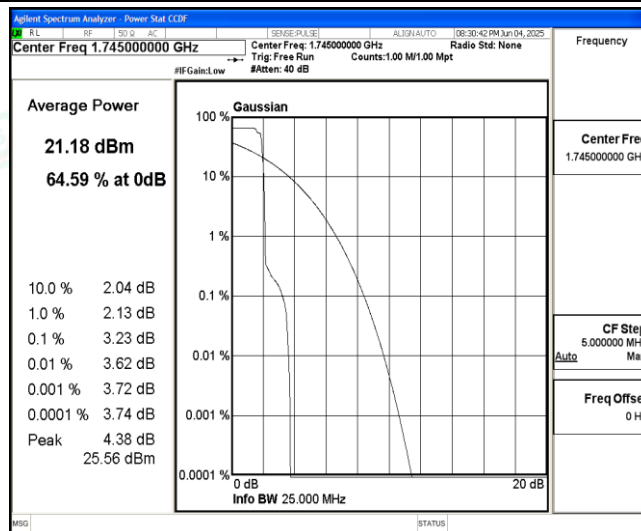
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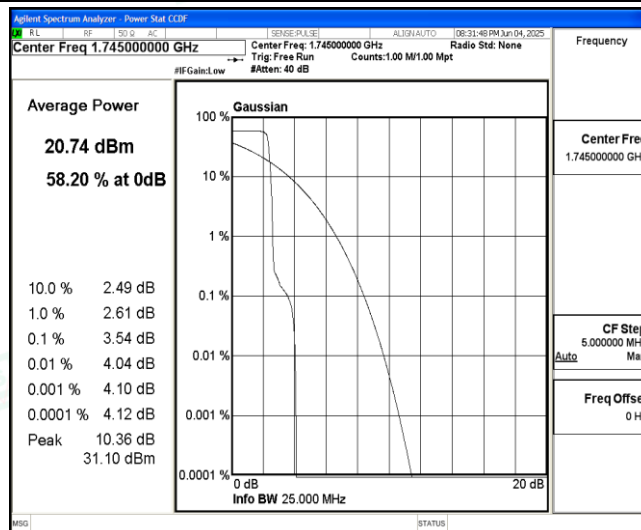
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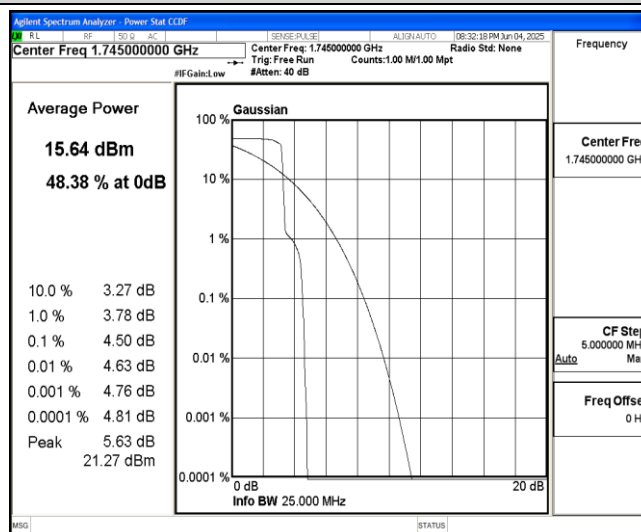
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Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-3.23-<=13-PASS



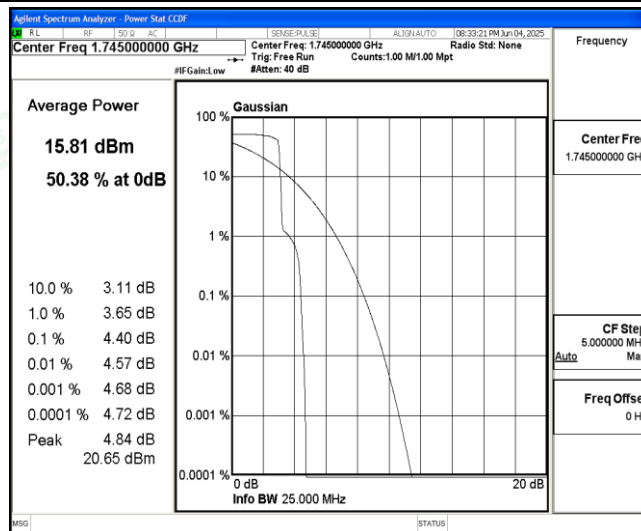
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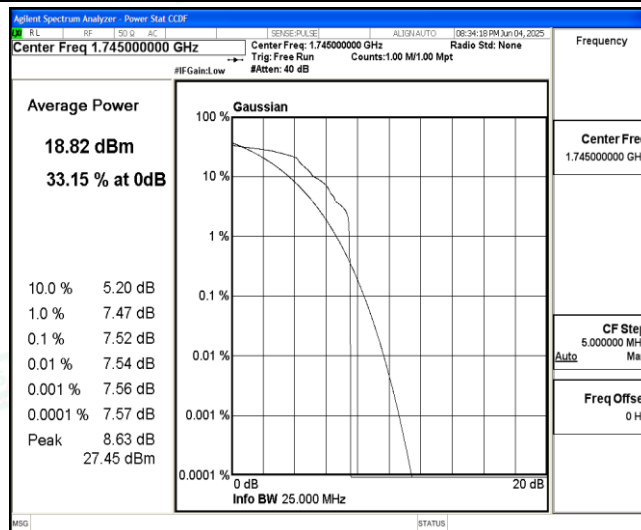
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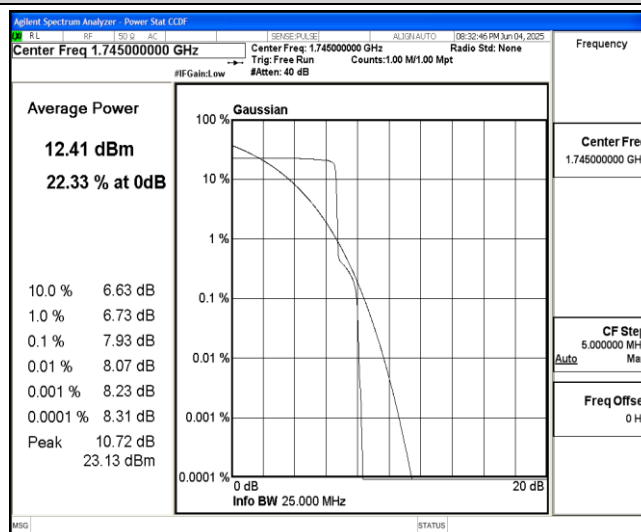
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Band66-Stand-Alone-NaN-BPSK-132322-1@11-15kHz-4.4-<=13-PASS



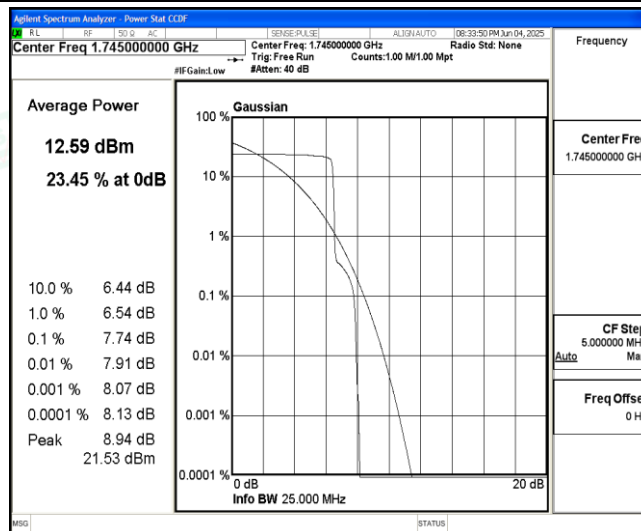
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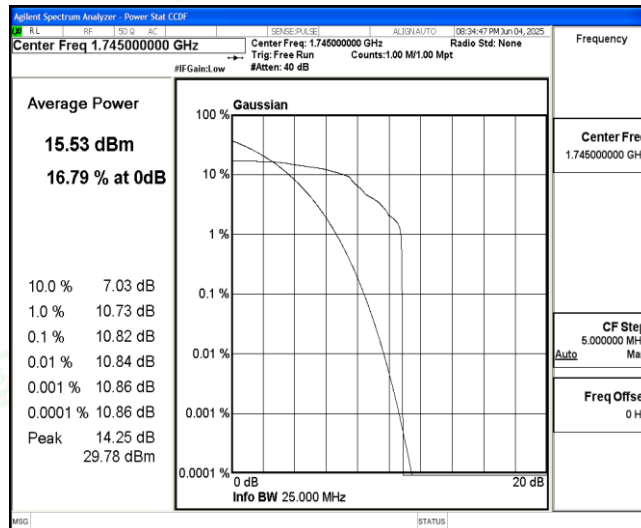
Band66-Stand-Alone-NaN-QPSK-132322-1@0-15kHz-7.93-<=13-PASS



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Band66-Stand-Alone-NaN-QPSK-132322-1@11-15kHz-7.74-<=13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-3@3-15kHz-10.82-<=13-PASS





S.3 Emission Bandwidth for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@0	0.0523	0.0369	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132322	1@0	0.0515	0.0339	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@0	0.0508	0.0340	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	0.0476	0.0369	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	0.0507	0.0408	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	0.0441	0.0368	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	0.1234	0.1064	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	12@0	0.1894	0.2611	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	0.1257	0.1048	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	12@0	0.1899	0.2455	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	0.1233	0.1059	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	12@0	0.1841	0.2509	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@0	0.1217	0.1156	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	0.1905	0.2562	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	1@0	0.1202	0.1182	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	12@0	0.1877	0.2458	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@0	0.1211	0.1174	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	12@0	0.1917	0.2605	PASS



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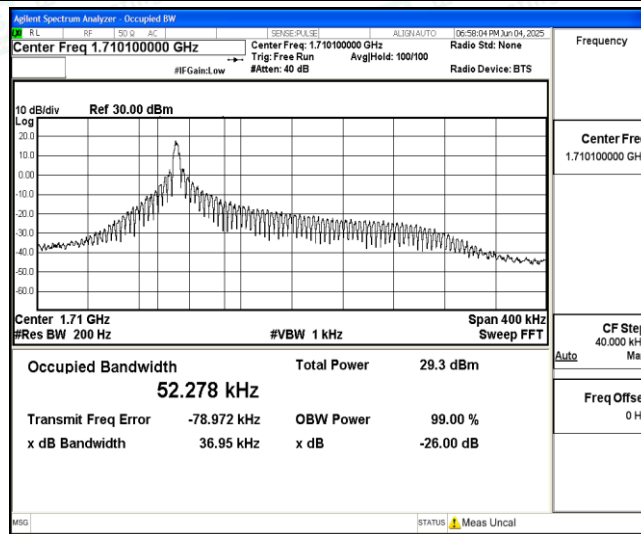
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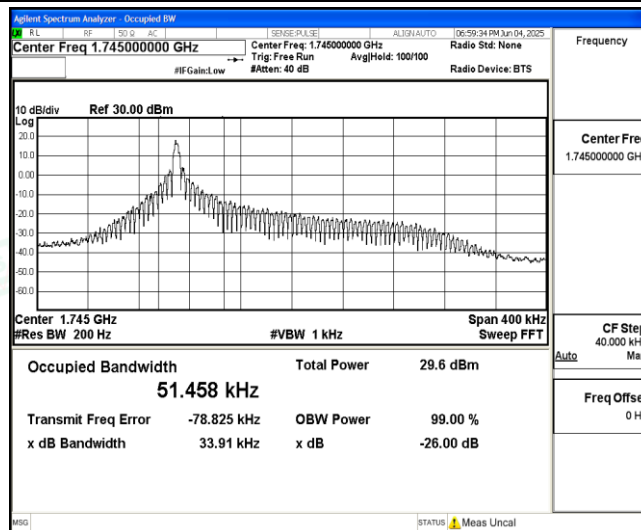
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Test Graphs

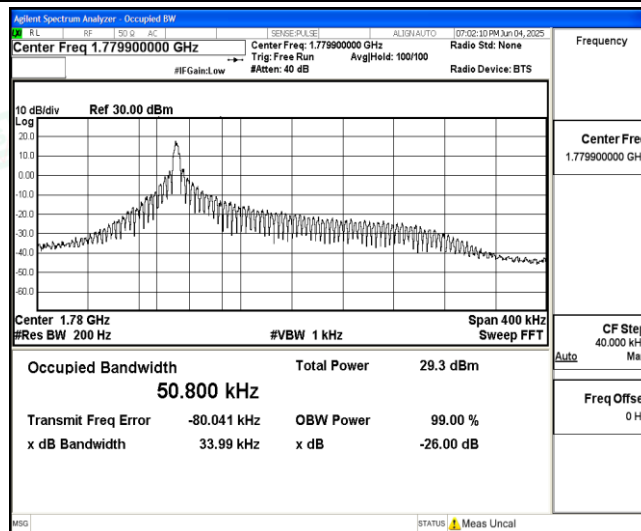


Band66-Stand-Alone-NaN-BPSK-131973-1@0-3.75kHz-0.0369-PASS

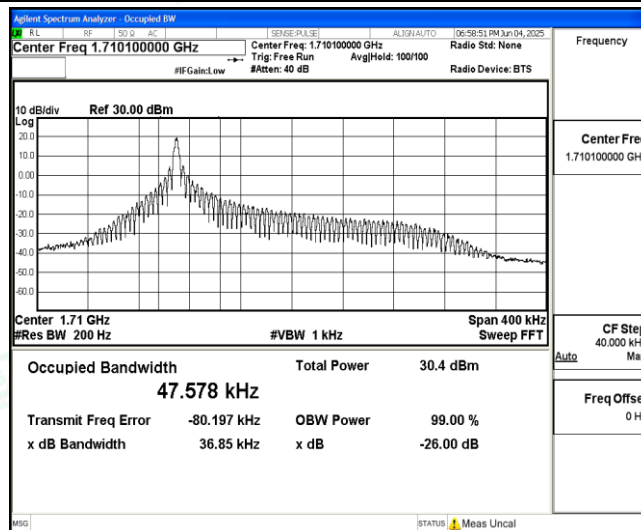


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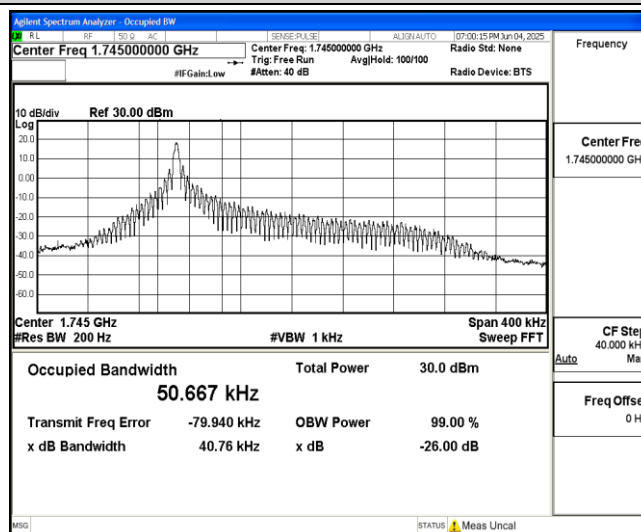




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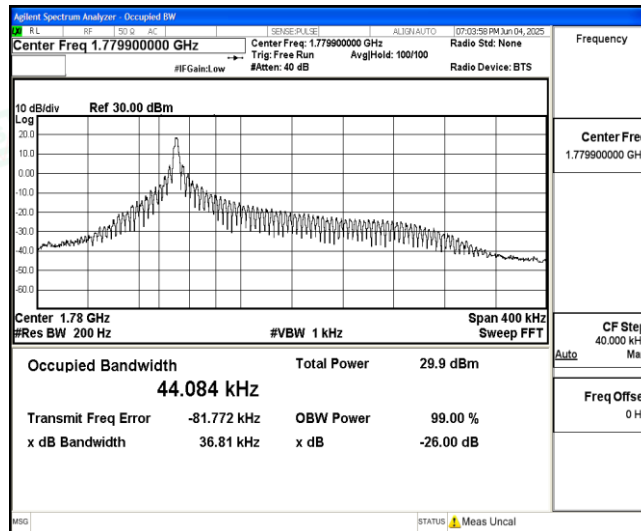
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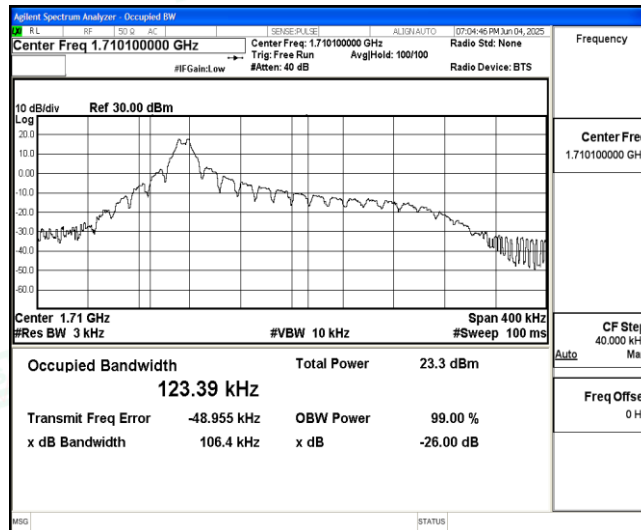
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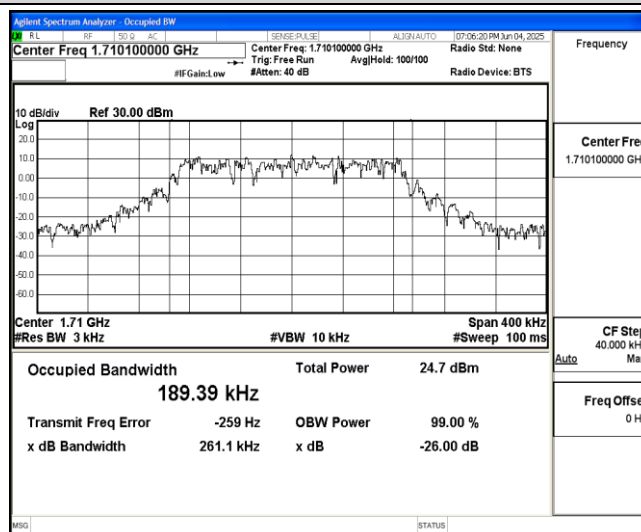
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Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz-0.0368-PASS



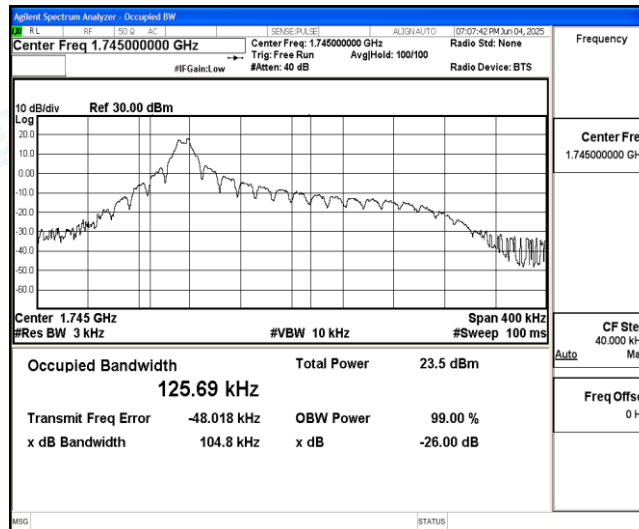
Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz-0.1064-PASS



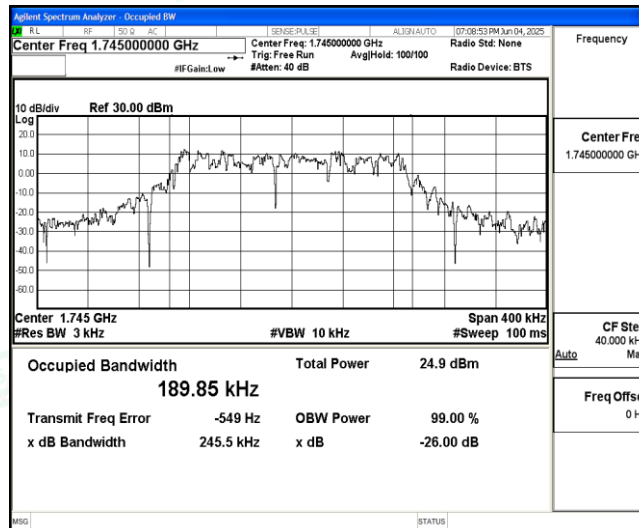
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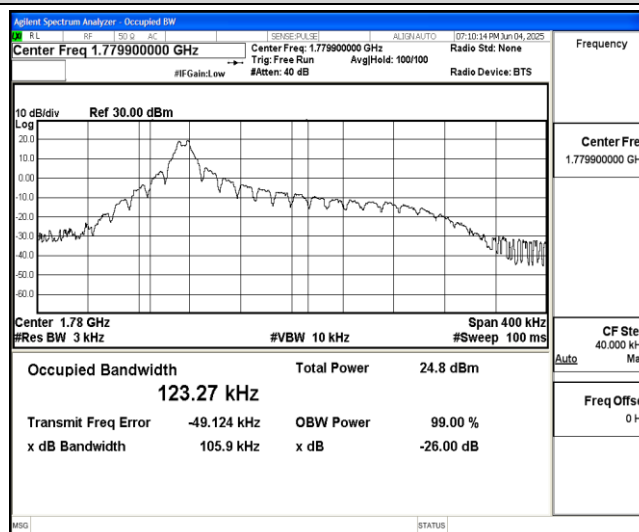
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Band66-Stand-Alone-NaN-BPSK-132322-1@0-15kHz-0.1048-PASS



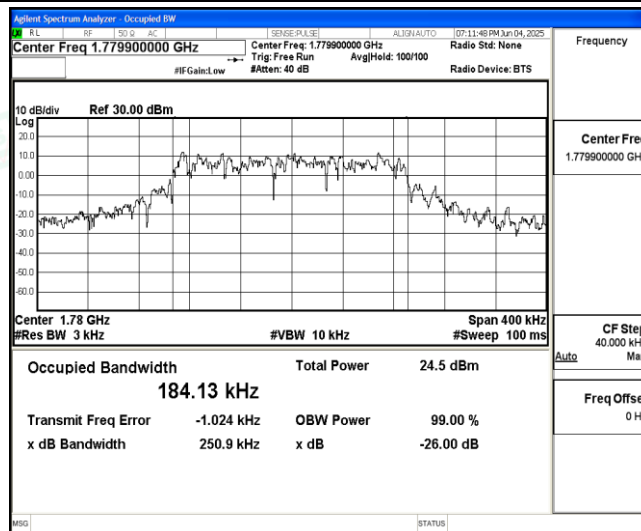
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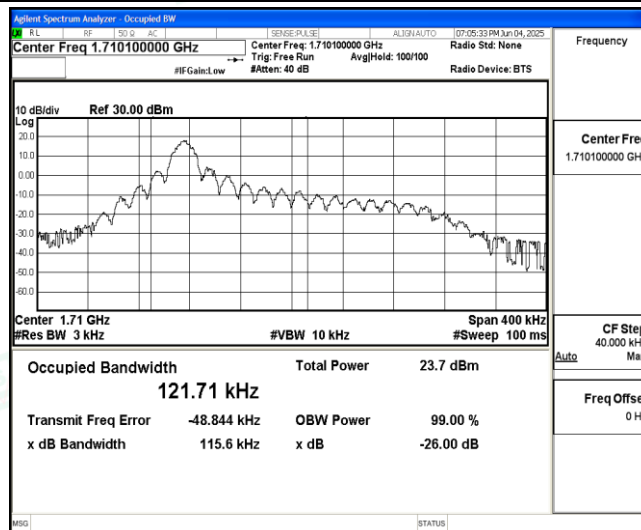
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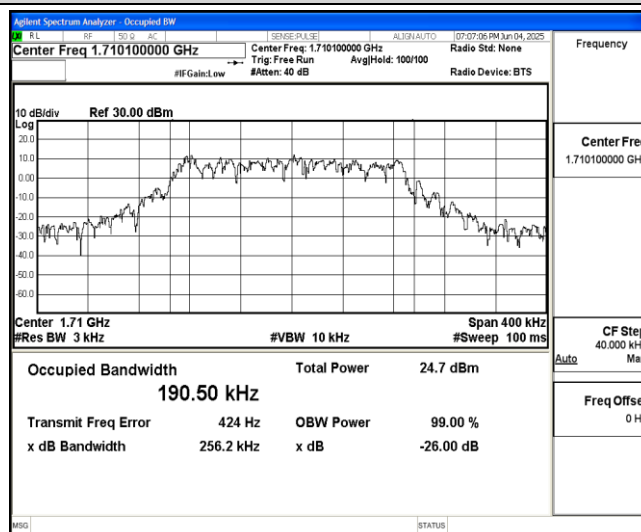
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Band66-Stand-Alone-NaN-BPSK-132671-12@0-15kHz-0.2509-PASS



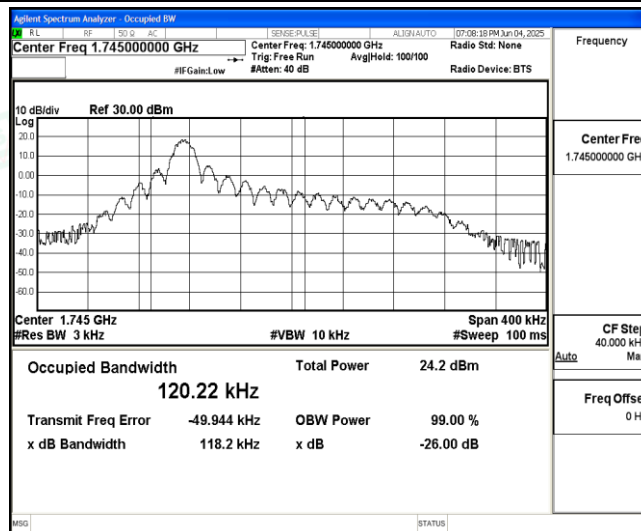
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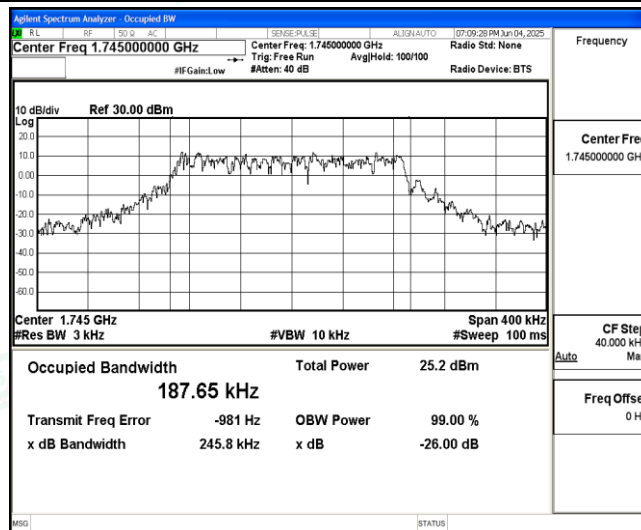
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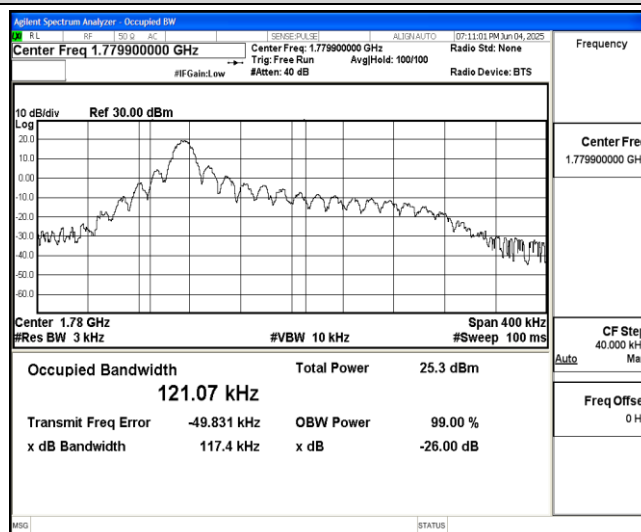
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Band66-Stand-Alone-NaN-QPSK-132322-1@0-15kHz-0.1182-PASS



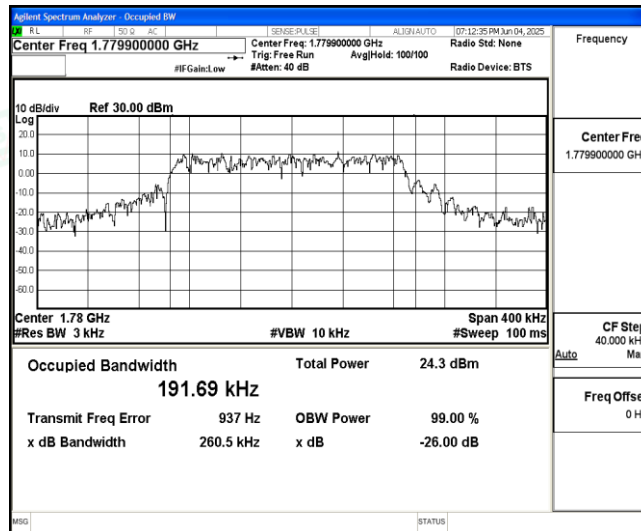
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Band66-Stand-Alone-NaN-QPSK-132671-1@0-15kHz-0.1174-PASS



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Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz-0.2605-PASS



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S.4 Band Edge for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Result (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@0	-14.46	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	131973	1@47	-34.65	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@0	-37.33	PASS
Band66	Stand-Alone	3.75kHz	NaN	BPSK	132671	1@47	-17.00	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	-15.65	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	-36.45	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	-39.74	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@47	-18.81	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	-17.51	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@11	-36.44	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	12@0	-34.32	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	-34.67	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@11	-16.99	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	12@0	-33.80	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@0	-21.34	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	1@11	-37.21	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	-31.68	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@0	-34.75	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	1@11	-18.45	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	12@0	-32.06	PASS



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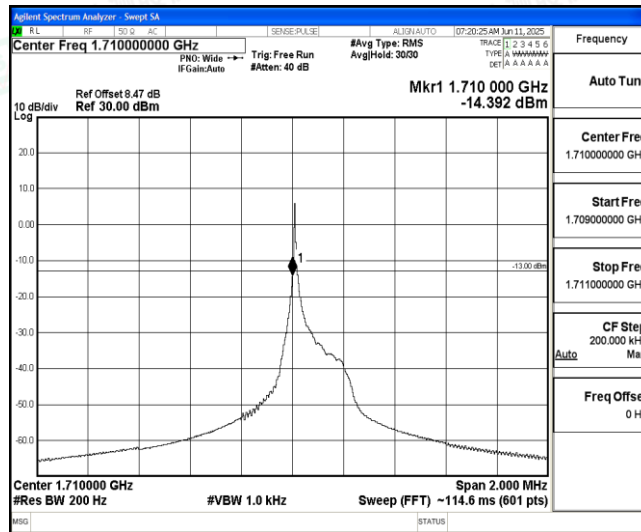
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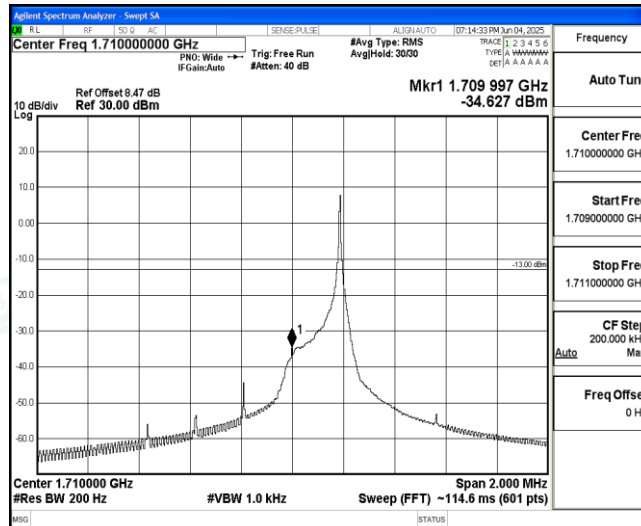
Scan code to check authenticity



Test Graphs

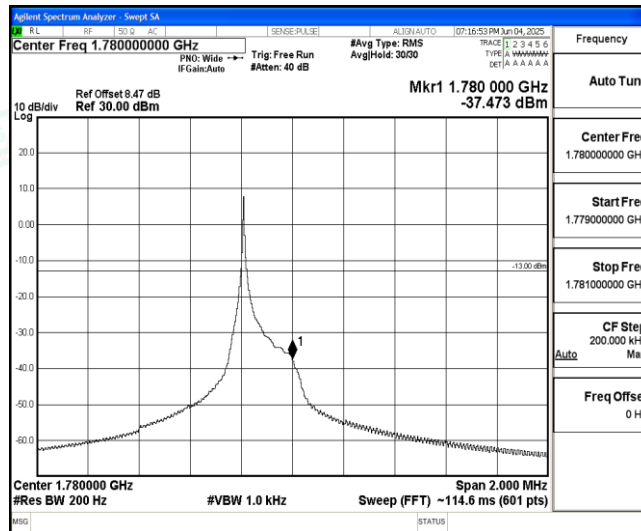


Band66-Stand-Alone-NaN-BPSK-131973-1@0-3.75kHz--14.46-PASS

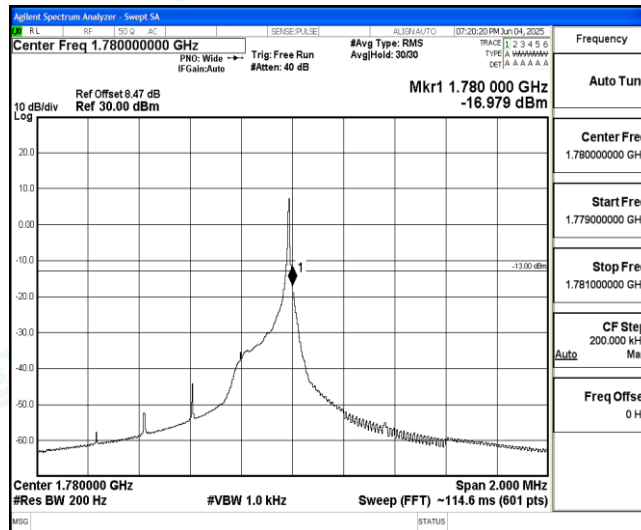


Band66-Stand-Alone-NaN-BPSK-131973-1@47-3.75kHz--34.65-PASS

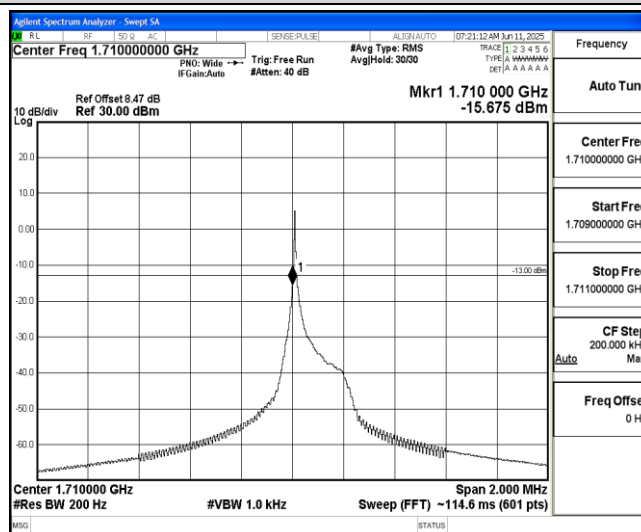




Band66-Stand-Alone-NaN-BPSK-132671-1@0-3.75kHz--37.33-PASS



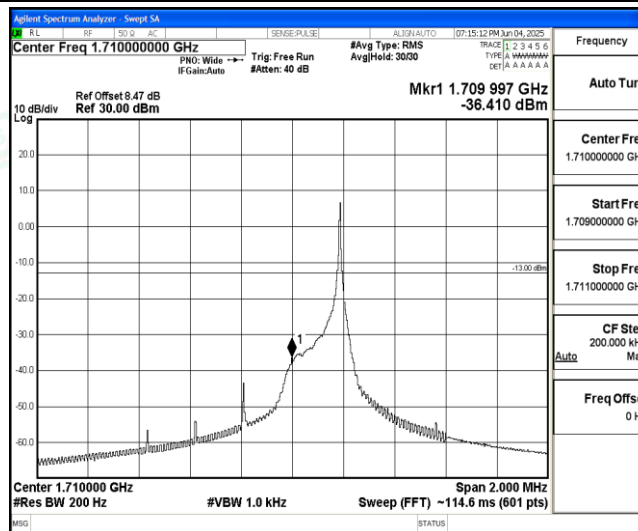
Band66-Stand-Alone-NaN-BPSK-132671-1@47-3.75kHz--17.00-PASS



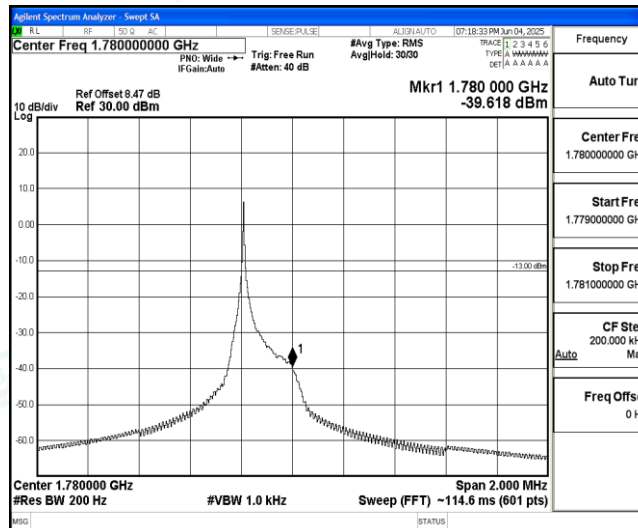
Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz--15.65-PASS



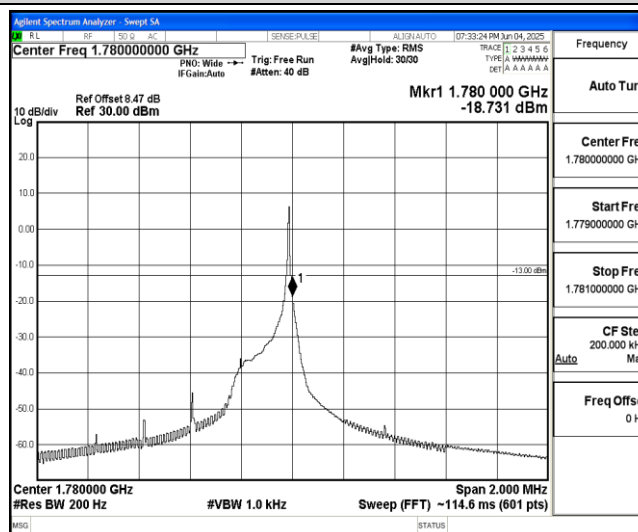
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Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz--36.45-PASS



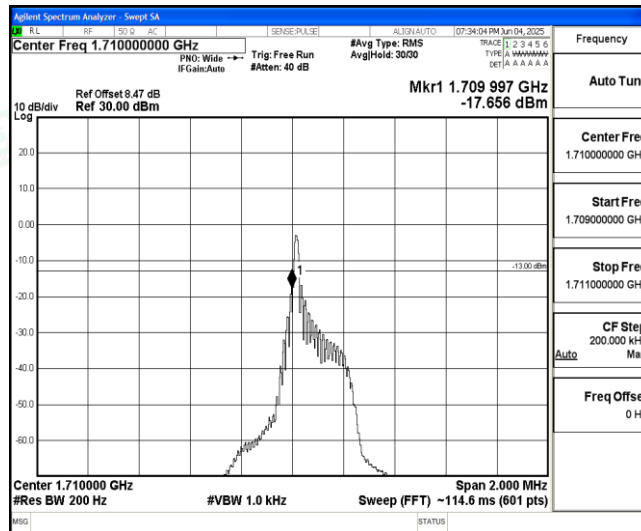
Band66-Stand-Alone-NaN-QPSK-132671-1@0-3.75kHz--39.74-PASS



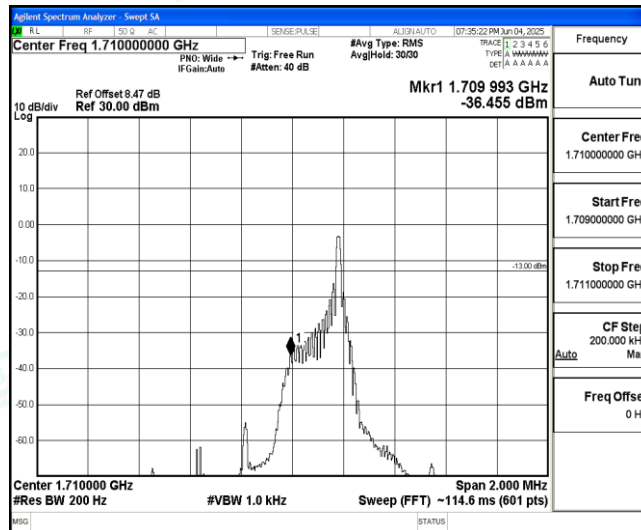
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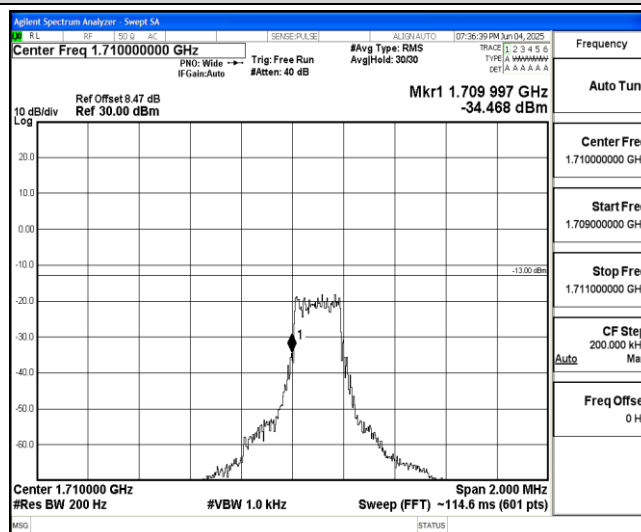
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Band66-Stand-Alone-NaN-BPSK-131973-1@0-15kHz--17.51-PASS



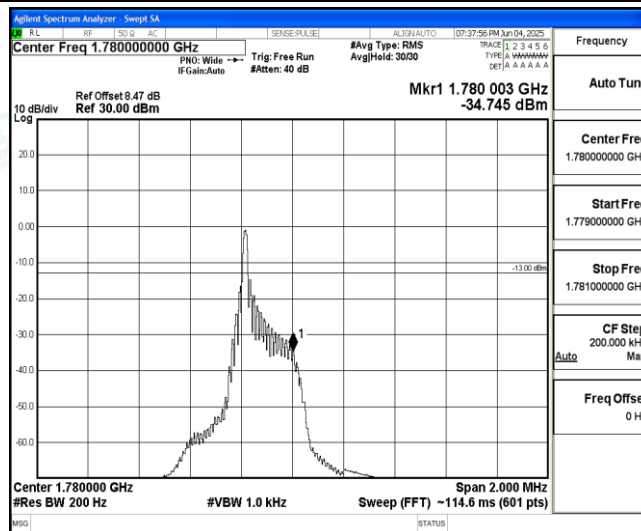
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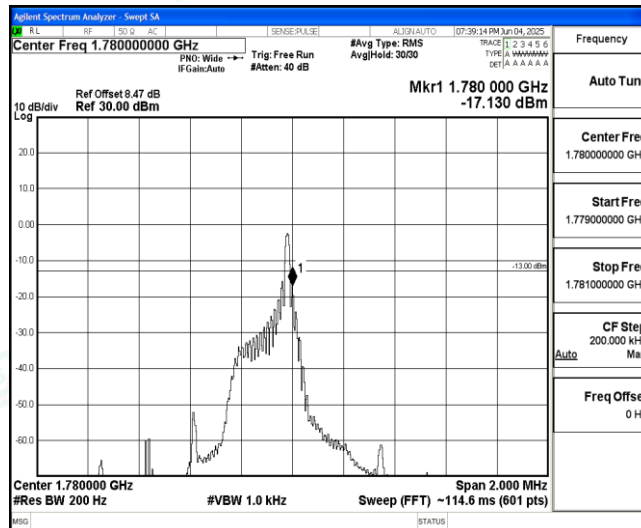
Band66-Stand-Alone-NaN-BPSK-131973-12@0-15kHz--34.32-PASS



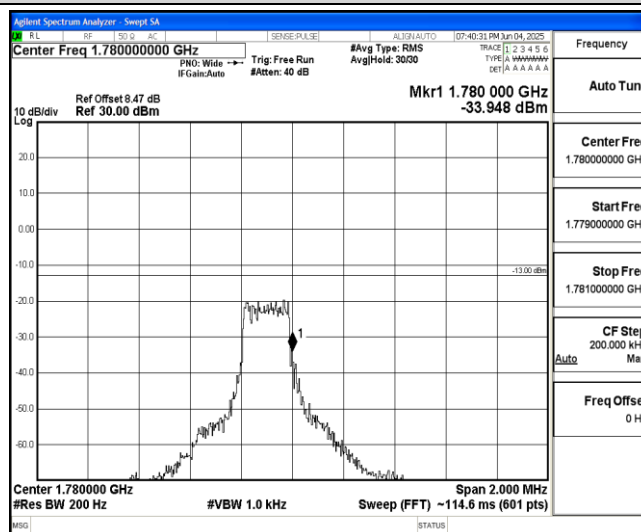
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Band66-Stand-Alone-NaN-BPSK-132671-1@0-15kHz--34.67-PASS



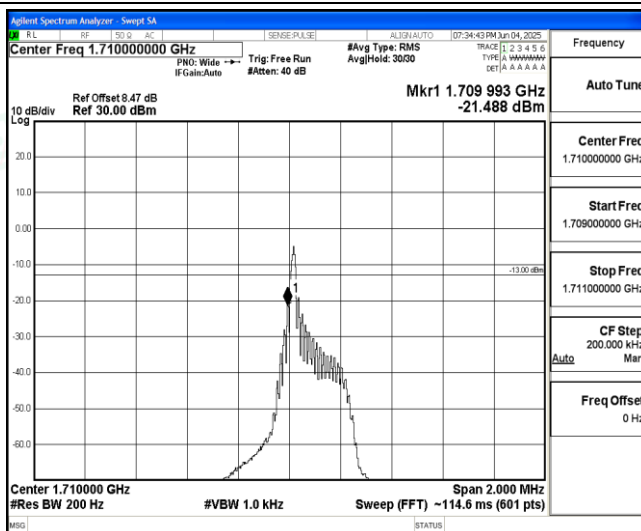
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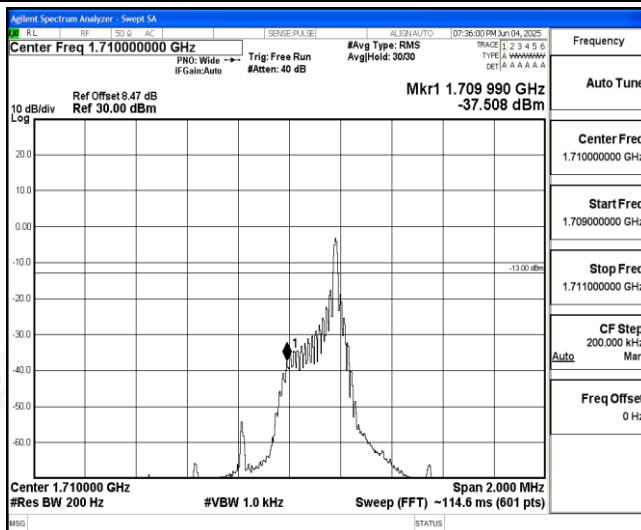
Band66-Stand-Alone-NaN-BPSK-132671-12@0-15kHz--33.80-PASS



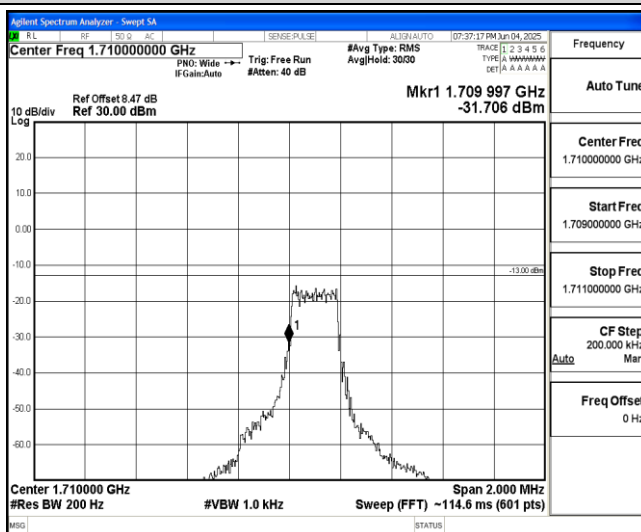
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Band66-Stand-Alone-NaN-QPSK-131973-1@0-15kHz--21.34-PASS



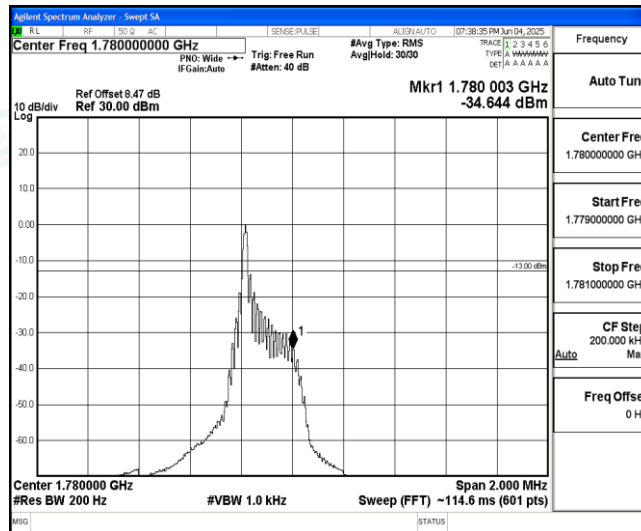
Band66-Stand-Alone-NaN-QPSK-131973-1@11-15kHz--37.21-PASS



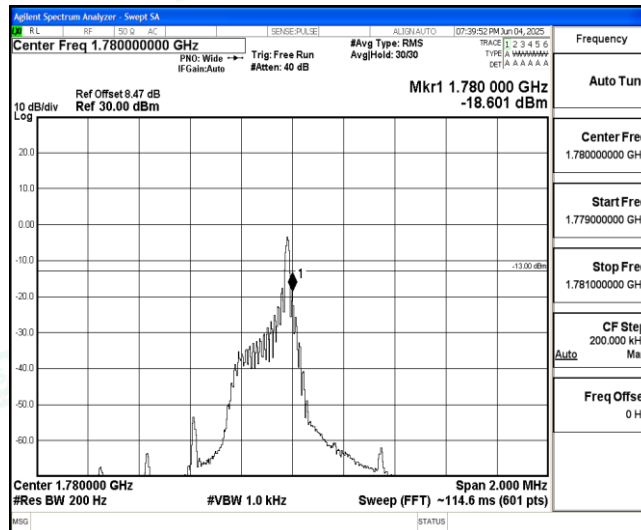
Band66-Stand-Alone-NaN-QPSK-131973-12@0-15kHz--31.68-PASS



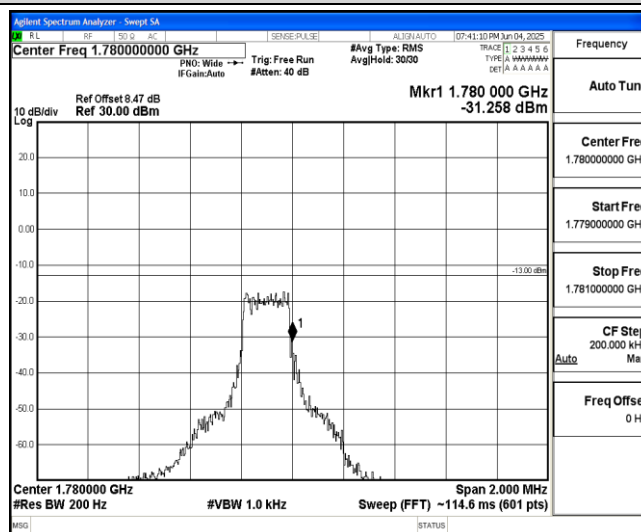
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Band66-Stand-Alone-NaN-QPSK-132671-1@0-15kHz--34.75-PASS



Band66-Stand-Alone-NaN-QPSK-132671-1@11-15kHz--18.45-PASS



Band66-Stand-Alone-NaN-QPSK-132671-12@0-15kHz--32.06-PASS



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S.5 Conducted Spurious Emission for NB1

Test Result

Band	OpMode	SCS	BW	Modu	Channel	Tones	Freq Start [MHz]	Freq Stop [MHz]	Result (dBm)	Limit (dBm)	Verdict
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	30	1000	-35.93	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	1000	5000	-35.43	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	5000	12000	-57.75	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@0	12000	26500	-42.55	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	30	1000	-35.81	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	1000	5000	-34.93	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	5000	12000	-57.67	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	131973	1@47	12000	26500	-42.66	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	30	1000	-36.31	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	1000	5000	-34.15	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	5000	12000	-57.77	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@0	12000	26500	-42.68	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	30	1000	-35.62	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	1000	5000	-34.18	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	5000	12000	-57.77	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132322	1@47	12000	26500	-42.48	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	30	1000	-35.05	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	1000	5000	-42	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	5000	12000	-57.74	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@0	12000	26500	-42.67	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@47	30	1000	-35.5	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@47	1000	5000	-42.07	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@47	5000	12000	-57.8	-13	PASS
Band66	Stand-Alone	3.75kHz	NaN	QPSK	132671	1@47	12000	26500	-42.8	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	30	1000	-35.52	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	1000	5000	-38.58	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	5000	12000	-57.6	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@0	12000	26500	-42.73	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@11	30	1000	-36.06	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@11	1000	5000	-38.82	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@11	5000	12000	-57.8	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	131973	1@11	12000	26500	-42.85	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	30	1000	-35.78	-13	PASS



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Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	1000	5000	-38.17	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	5000	12000	-57.83	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@0	12000	26500	-42.77	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@11	30	1000	-35.41	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@11	1000	5000	-38.65	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@11	5000	12000	-57.84	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132322	1@11	12000	26500	-42.53	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	30	1000	-35.14	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	1000	5000	-42.05	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	5000	12000	-57.61	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@0	12000	26500	-42.82	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@11	30	1000	-36.13	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@11	1000	5000	-42.05	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@11	5000	12000	-57.81	-13	PASS
Band66	Stand-Alone	15kHz	NaN	BPSK	132671	1@11	12000	26500	-42.73	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	30	1000	36.2	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	1000	5000	-41.96	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	5000	12000	-57.64	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	131973	12@0	12000	26500	-42.82	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	12@0	30	1000	-36.04	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	12@0	1000	5000	-41.99	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	12@0	5000	12000	-57.47	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132322	12@0	12000	26500	-42.81	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	12@0	30	1000	-36.08	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	12@0	1000	5000	-42	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	12@0	5000	12000	-57.75	-13	PASS
Band66	Stand-Alone	15kHz	NaN	QPSK	132671	12@0	12000	26500	-42.47	-13	PASS



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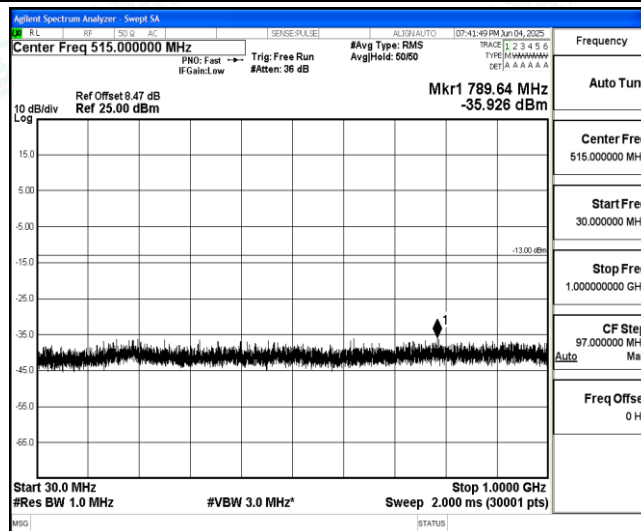
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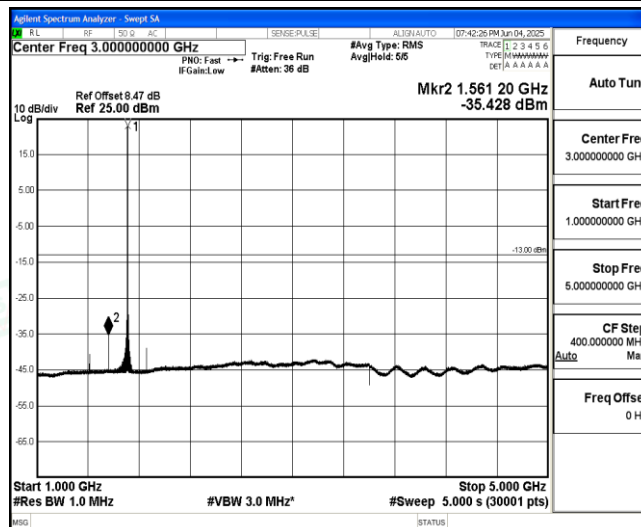
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Test Graphs



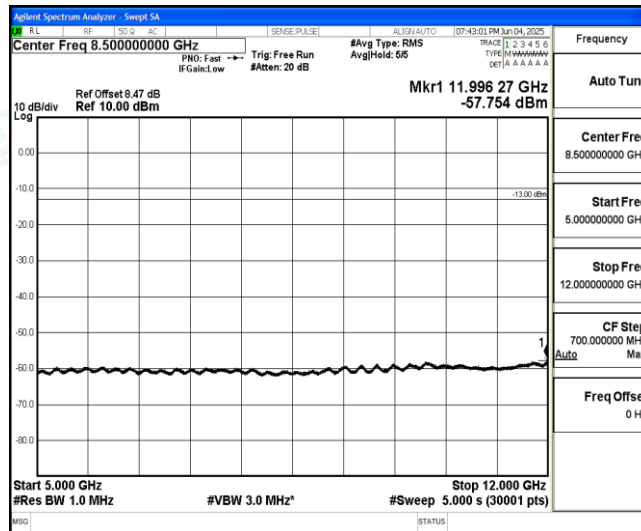
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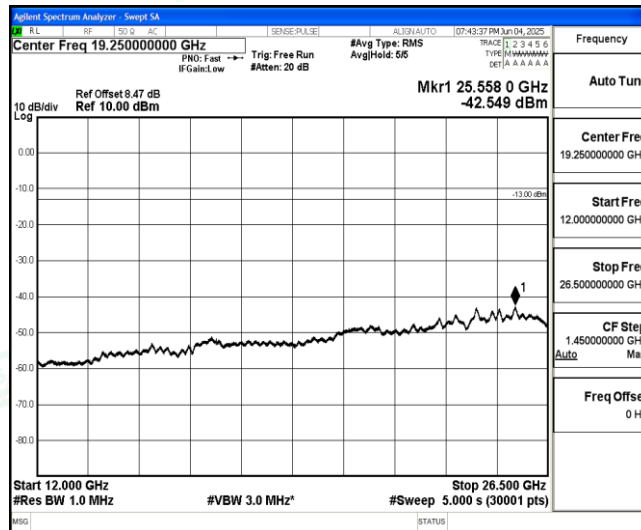
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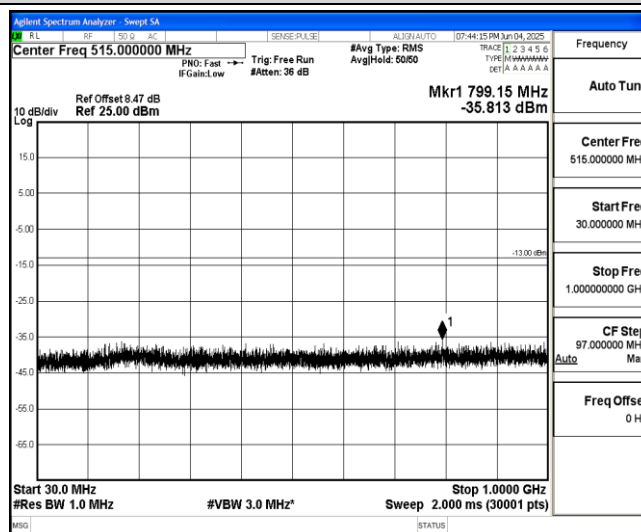
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Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz-5000-12000-5000~12000MHz@-57.75dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-131973-1@0-3.75kHz-12000-26500-12000~26500MHz@-42.55dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz-30-1000-30~1000MHz@-35.81dBm--13-PASS

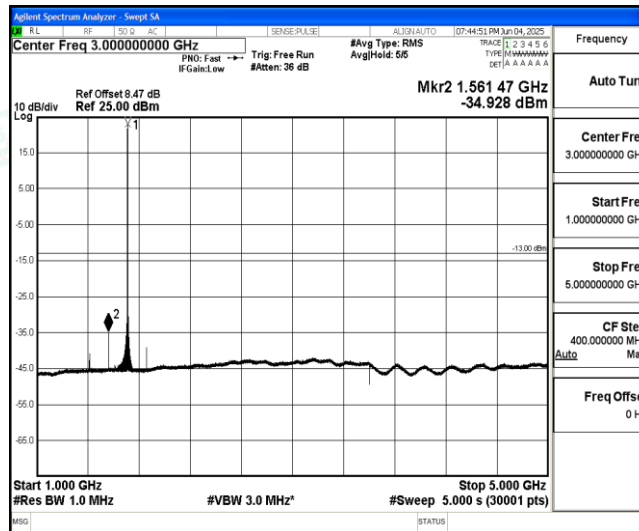


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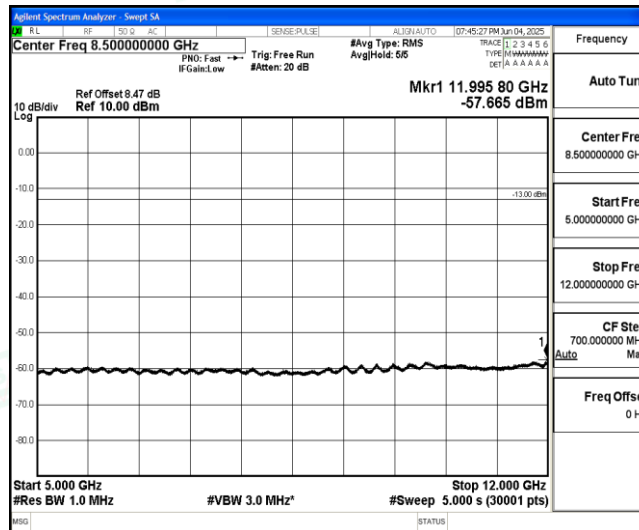
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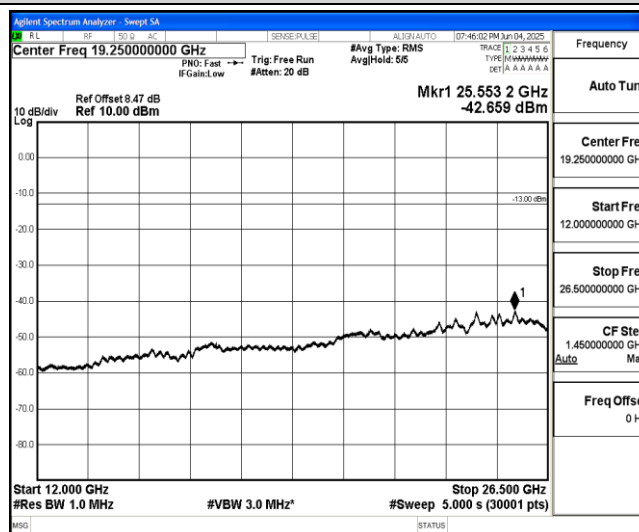
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Band66-Stand-Alone-NaN-QPSK-131973-1@47-3.75kHz-1000-5000-1000~5000MHz@-34.93dBm--13-PASS



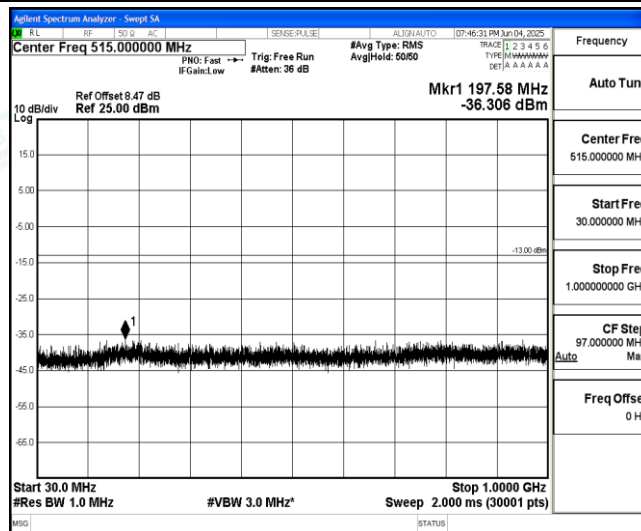
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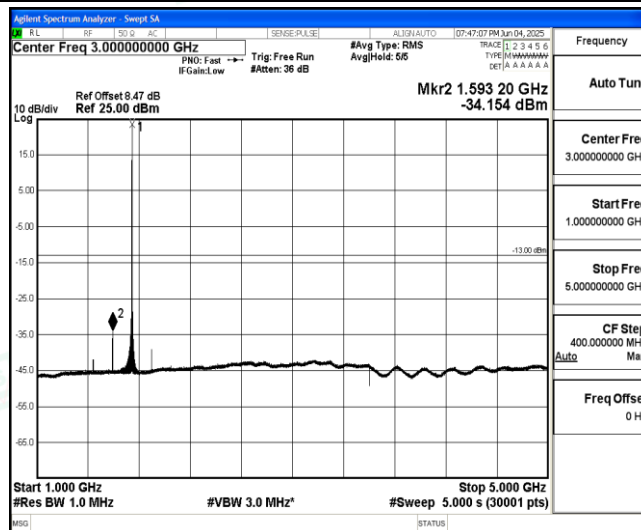
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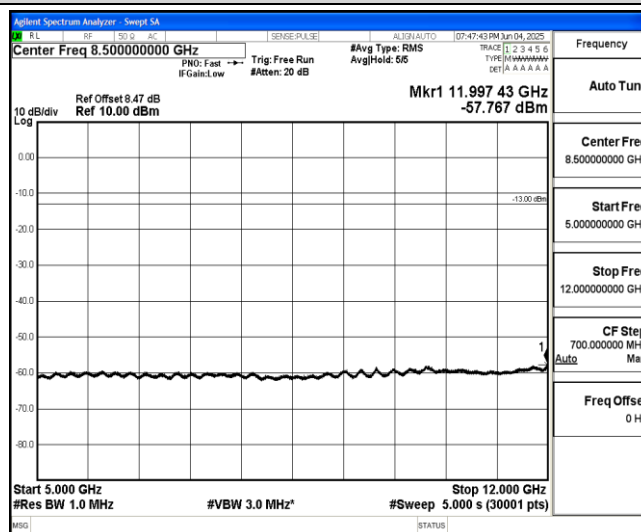
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Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-30-1000-30~1000MHz@-36.31dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-1000-5000-1000~5000MHz@-34.15dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-5000-12000-5000~12000MHz@-57.77dBm--13-PASS

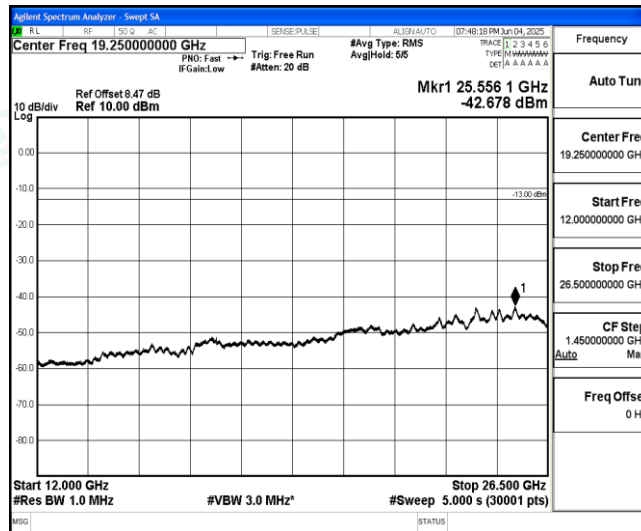


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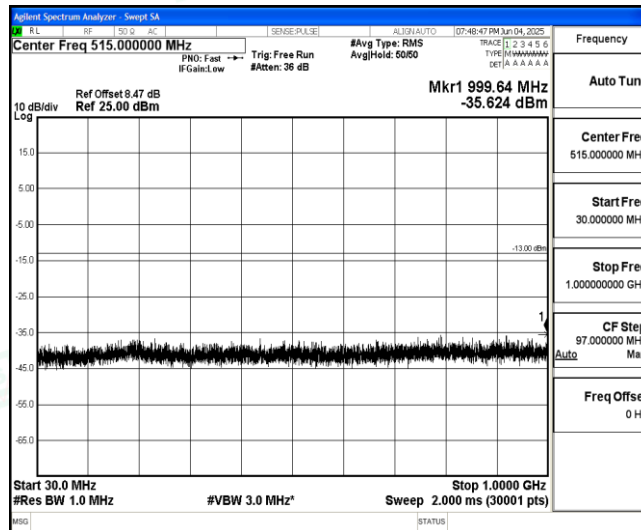
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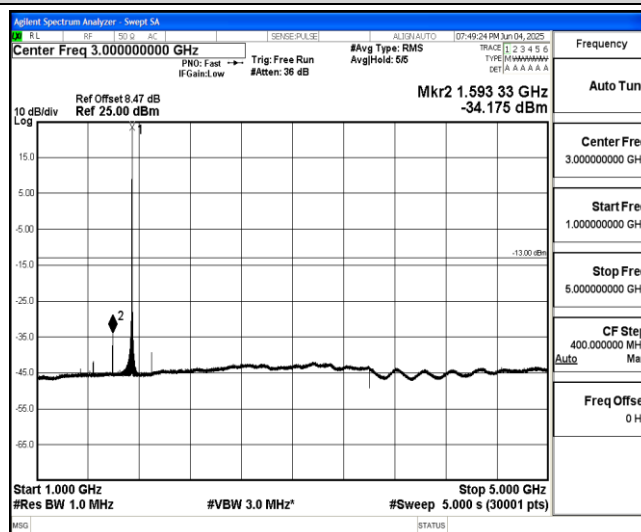
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Band66-Stand-Alone-NaN-QPSK-132322-1@0-3.75kHz-12000-26500-12000~26500MHz@-42.68dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@47-3.75kHz-30-1000-30~1000MHz@-35.62dBm--13-PASS



Band66-Stand-Alone-NaN-QPSK-132322-1@47-3.75kHz-1000-5000-1000~5000MHz@-34.18dBm--13-PASS



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