

Appendix-A LTE Cat M1 Band 66

Effective (Isotropic) Radiated Power Output Data for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1	0	Low	21.04	23.04	30.00	PASS
Band66	1.4MHz	QPSK	131979	1	5	Low	20.91	22.91	30.00	PASS
Band66	1.4MHz	QPSK	131979	6	0	Low	18.95	20.95	30.00	PASS
Band66	1.4MHz	QPSK	132322	1	0	Low	21.14	23.14	30.00	PASS
Band66	1.4MHz	QPSK	132322	1	5	Low	21.01	23.01	30.00	PASS
Band66	1.4MHz	QPSK	132322	6	0	Low	18.99	20.99	30.00	PASS
Band66	1.4MHz	QPSK	132665	1	0	High	21.47	23.47	30.00	PASS
Band66	1.4MHz	QPSK	132665	1	5	High	21.32	23.32	30.00	PASS
Band66	1.4MHz	QPSK	132665	6	0	High	19.45	21.45	30.00	PASS
Band66	3MHz	QPSK	131987	1	0	Low	21.1	23.1	30.00	PASS
Band66	3MHz	QPSK	131987	1	5	Low	20.9	22.9	30.00	PASS
Band66	3MHz	QPSK	131987	6	0	Low	19	21	30.00	PASS
Band66	3MHz	QPSK	132322	1	0	Low	21.2	23.2	30.00	PASS
Band66	3MHz	QPSK	132322	1	5	Low	20.98	22.98	30.00	PASS
Band66	3MHz	QPSK	132322	6	0	Low	19.05	21.05	30.00	PASS
Band66	3MHz	QPSK	132657	1	0	High	19.95	21.95	30.00	PASS
Band66	3MHz	QPSK	132657	1	5	High	21.32	23.32	30.00	PASS
Band66	3MHz	QPSK	132657	6	0	High	19.41	21.41	30.00	PASS
Band66	5MHz	QPSK	131997	1	0	Low	21.08	23.08	30.00	PASS
Band66	5MHz	QPSK	131997	1	5	Low	20.95	22.95	30.00	PASS
Band66	5MHz	QPSK	131997	6	0	Low	20.17	22.17	30.00	PASS
Band66	5MHz	QPSK	132322	1	0	Low	21.11	23.11	30.00	PASS
Band66	5MHz	QPSK	132322	1	5	Low	21.03	23.03	30.00	PASS
Band66	5MHz	QPSK	132322	6	0	Low	20.2	22.2	30.00	PASS
Band66	5MHz	QPSK	132647	1	0	High	21.5	23.5	30.00	PASS
Band66	5MHz	QPSK	132647	1	5	High	21.36	23.36	30.00	PASS
Band66	5MHz	QPSK	132647	6	0	High	20.49	22.49	30.00	PASS
Band66	10MHz	QPSK	132022	1	0	Low	21.17	23.17	30.00	PASS
Band66	10MHz	QPSK	132022	1	5	Low	20.92	22.92	30.00	PASS
Band66	10MHz	QPSK	132022	6	0	Low	20.05	22.05	30.00	PASS
Band66	10MHz	QPSK	132322	1	0	Low	21.13	23.13	30.00	PASS
Band66	10MHz	QPSK	132322	1	5	Low	21.01	23.01	30.00	PASS
Band66	10MHz	QPSK	132322	6	0	Low	20.06	22.06	30.00	PASS
Band66	10MHz	QPSK	132622	1	0	High	21.49	23.49	30.00	PASS
Band66	10MHz	QPSK	132622	1	5	High	21.32	23.32	30.00	PASS
Band66	10MHz	QPSK	132622	6	0	High	20.43	22.43	30.00	PASS
Band66	15MHz	QPSK	132047	1	0	Low	21.05	23.05	30.00	PASS

Band66	15MHz	QPSK	132047	1	5	Low	20.93	22.93	30.00	PASS
Band66	15MHz	QPSK	132047	6	0	Low	21.03	23.03	30.00	PASS
Band66	15MHz	QPSK	132322	1	0	Low	21.01	23.01	30.00	PASS
Band66	15MHz	QPSK	132322	1	5	Low	21.02	23.02	30.00	PASS
Band66	15MHz	QPSK	132322	6	0	Low	21.17	23.17	30.00	PASS
Band66	15MHz	QPSK	132597	1	0	High	21.52	23.52	30.00	PASS
Band66	15MHz	QPSK	132597	1	5	High	21.27	23.27	30.00	PASS
Band66	15MHz	QPSK	132597	6	0	High	21.41	23.41	30.00	PASS
Band66	20MHz	QPSK	132322	1	0	Low	21.14	23.14	30.00	PASS
Band66	20MHz	QPSK	132322	1	5	Low	21.08	23.08	30.00	PASS
Band66	20MHz	QPSK	132322	6	0	Low	21.11	23.11	30.00	PASS
Band66	20MHz	QPSK	132572	1	0	High	21.58	23.58	30.00	PASS
Band66	20MHz	QPSK	132572	1	5	High	21.31	23.31	30.00	PASS
Band66	20MHz	QPSK	132572	6	0	High	21.56	23.56	30.00	PASS
Band66	1.4MHz	16QAM	131979	1	0	Low	20.68	22.68	30.00	PASS
Band66	1.4MHz	16QAM	131979	1	5	Low	20.46	22.46	30.00	PASS
Band66	1.4MHz	16QAM	131979	5	0	Low	18.94	20.94	30.00	PASS
Band66	1.4MHz	16QAM	132322	1	0	Low	20.6	22.6	30.00	PASS
Band66	1.4MHz	16QAM	132322	1	5	Low	20.79	22.79	30.00	PASS
Band66	1.4MHz	16QAM	132322	5	0	Low	19.02	21.02	30.00	PASS
Band66	1.4MHz	16QAM	132665	1	0	High	20.33	22.33	30.00	PASS
Band66	1.4MHz	16QAM	132665	1	5	High	20.14	22.14	30.00	PASS
Band66	1.4MHz	16QAM	132665	5	0	High	19.51	21.51	30.00	PASS
Band66	3MHz	16QAM	131987	1	0	Low	20.3	22.3	30.00	PASS
Band66	3MHz	16QAM	131987	1	5	Low	20.39	22.39	30.00	PASS
Band66	3MHz	16QAM	131987	5	0	Low	19.05	21.05	30.00	PASS
Band66	3MHz	16QAM	132322	1	0	Low	19.97	21.97	30.00	PASS
Band66	3MHz	16QAM	132322	1	5	Low	19.67	21.67	30.00	PASS
Band66	3MHz	16QAM	132322	5	0	Low	19.21	21.21	30.00	PASS
Band66	3MHz	16QAM	132657	1	0	High	20.54	22.54	30.00	PASS
Band66	3MHz	16QAM	132657	1	5	High	20.27	22.27	30.00	PASS
Band66	3MHz	16QAM	132657	5	0	High	19.47	21.47	30.00	PASS
Band66	5MHz	16QAM	131997	1	0	Low	20.83	22.83	30.00	PASS
Band66	5MHz	16QAM	131997	1	5	Low	20.67	22.67	30.00	PASS
Band66	5MHz	16QAM	131997	5	0	Low	19.72	21.72	30.00	PASS
Band66	5MHz	16QAM	132322	1	0	Low	20.89	22.89	30.00	PASS
Band66	5MHz	16QAM	132322	1	5	Low	20.76	22.76	30.00	PASS
Band66	5MHz	16QAM	132322	5	0	Low	19.79	21.79	30.00	PASS
Band66	5MHz	16QAM	132647	1	0	High	21.69	23.69	30.00	PASS
Band66	5MHz	16QAM	132647	1	5	High	21.52	23.52	30.00	PASS
Band66	5MHz	16QAM	132647	5	0	High	20.47	22.47	30.00	PASS
Band66	10MHz	16QAM	132022	1	0	Low	20.82	22.82	30.00	PASS
Band66	10MHz	16QAM	132022	1	5	Low	20.6	22.6	30.00	PASS
Band66	10MHz	16QAM	132022	5	0	Low	20.75	22.75	30.00	PASS
Band66	10MHz	16QAM	132322	1	0	Low	20.9	22.9	30.00	PASS

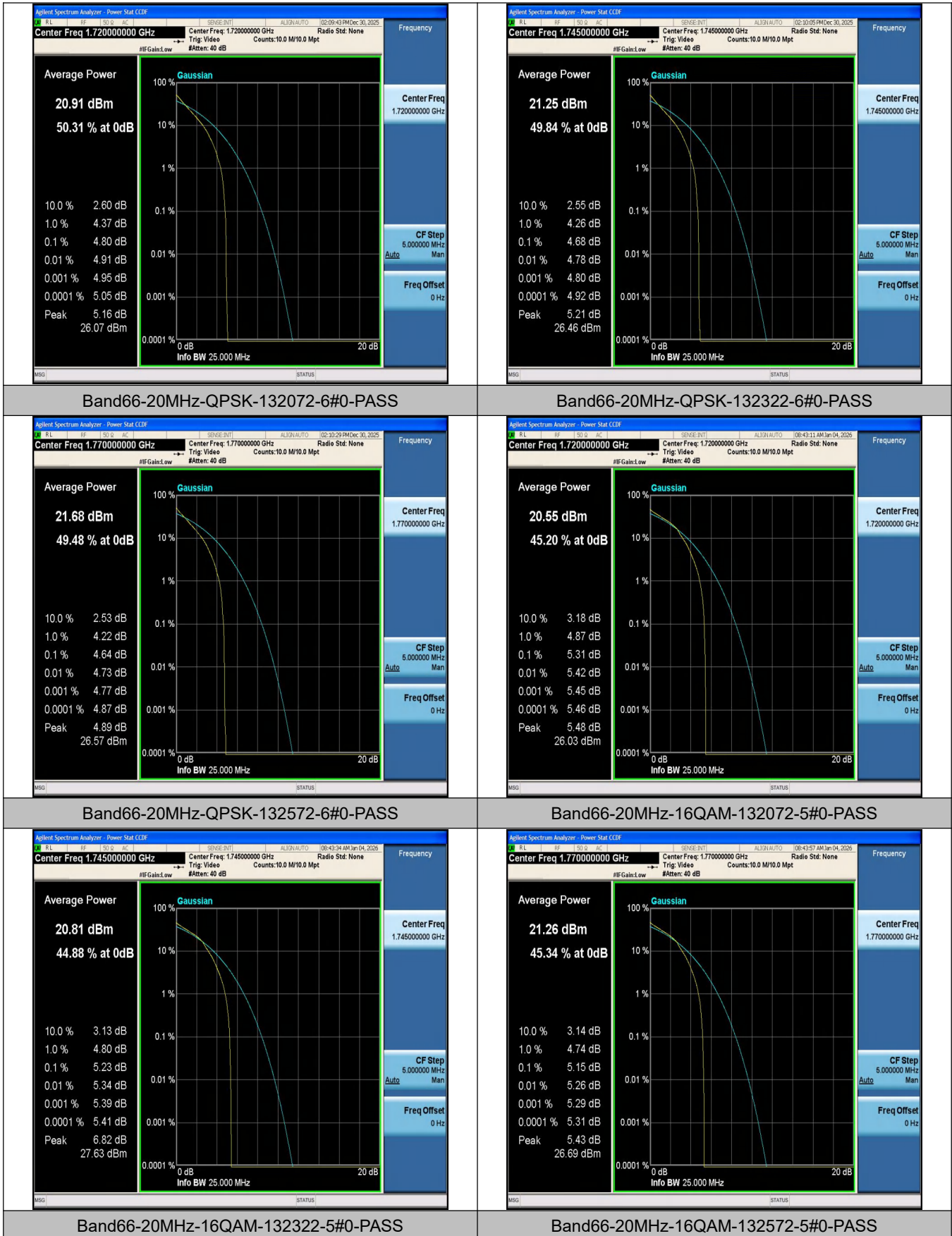
Band66	10MHz	16QAM	132322	1	5	Low	20.62	22.62	30.00	PASS
Band66	10MHz	16QAM	132322	5	0	Low	20.73	22.73	30.00	PASS
Band66	10MHz	16QAM	132622	1	0	High	21.58	23.58	30.00	PASS
Band66	10MHz	16QAM	132622	1	5	High	21.62	23.62	30.00	PASS
Band66	10MHz	16QAM	132622	5	0	High	21.49	23.49	30.00	PASS
Band66	15MHz	16QAM	132047	1	0	Low	20.82	22.82	30.00	PASS
Band66	15MHz	16QAM	132047	1	5	Low	20.58	22.58	30.00	PASS
Band66	15MHz	16QAM	132047	5	0	Low	20.8	22.8	30.00	PASS
Band66	15MHz	16QAM	132322	1	0	Low	20.98	22.98	30.00	PASS
Band66	15MHz	16QAM	132322	1	5	Low	20.76	22.76	30.00	PASS
Band66	15MHz	16QAM	132322	5	0	Low	20.8	22.8	30.00	PASS
Band66	15MHz	16QAM	132597	1	0	High	21.53	23.53	30.00	PASS
Band66	15MHz	16QAM	132597	1	5	High	21.4	23.4	30.00	PASS
Band66	15MHz	16QAM	132597	5	0	High	21.45	23.45	30.00	PASS
Band66	20MHz	16QAM	132322	1	0	Low	20.79	22.79	30.00	PASS
Band66	20MHz	16QAM	132322	1	5	Low	20.69	22.69	30.00	PASS
Band66	20MHz	16QAM	132322	5	0	Low	20.82	22.82	30.00	PASS
Band66	20MHz	16QAM	132572	1	0	High	21.67	23.67	30.00	PASS
Band66	20MHz	16QAM	132572	1	5	High	21.63	23.63	30.00	PASS
Band66	20MHz	16QAM	132572	5	0	High	21.35	23.35	30.00	PASS

Peak-to-Average Ratio(CCDF) for M1

Test Result

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NBIndex	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	6	0	Low	4.80	<=13	PASS
Band66	20MHz	QPSK	132322	6	0	Low	4.68	<=13	PASS
Band66	20MHz	QPSK	132572	6	0	High	4.64	<=13	PASS
Band66	20MHz	16QAM	132072	5	0	Low	5.31	<=13	PASS
Band66	20MHz	16QAM	132322	5	0	Low	5.23	<=13	PASS
Band66	20MHz	16QAM	132572	5	0	High	5.15	<=13	PASS

Test Graphs



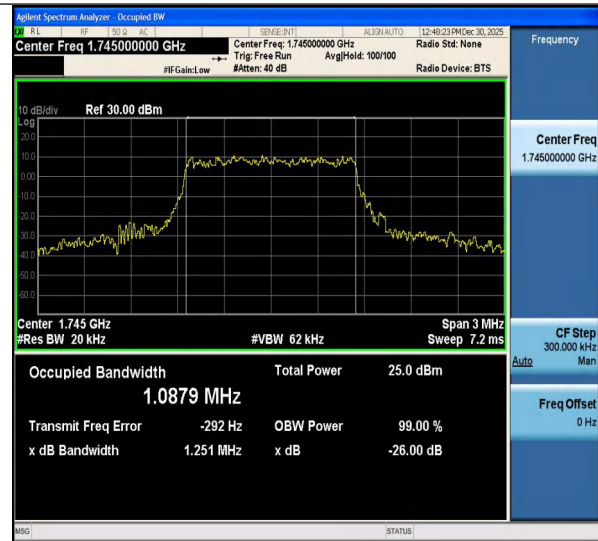
26dB Bandwidth and Occupied Bandwidth for M1**Test Result**

Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6	0	Low	1.0809	1.215	PASS
Band66	1.4MHz	QPSK	132322	6	0	Low	1.0879	1.251	PASS
Band66	1.4MHz	QPSK	132665	6	0	High	1.0719	1.267	PASS
Band66	3MHz	QPSK	131987	6	0	Low	1.0853	1.280	PASS
Band66	3MHz	QPSK	132322	6	0	Low	1.0835	1.282	PASS
Band66	3MHz	QPSK	132657	6	0	High	1.0855	1.254	PASS
Band66	5MHz	QPSK	131997	6	0	Low	1.0840	1.216	PASS
Band66	5MHz	QPSK	132322	6	0	Low	1.0821	1.224	PASS
Band66	5MHz	QPSK	132647	6	0	High	1.0882	1.230	PASS
Band66	10MHz	QPSK	132022	6	0	Low	1.0926	1.256	PASS
Band66	10MHz	QPSK	132322	6	0	Low	1.0894	1.231	PASS
Band66	10MHz	QPSK	132622	6	0	High	1.0990	1.275	PASS
Band66	15MHz	QPSK	132047	6	0	Low	1.0999	1.255	PASS
Band66	15MHz	QPSK	132322	6	0	Low	1.1065	1.257	PASS
Band66	15MHz	QPSK	132597	6	0	High	1.0980	1.277	PASS
Band66	20MHz	QPSK	132072	6	0	Low	1.1062	1.271	PASS
Band66	20MHz	QPSK	132322	6	0	Low	1.1117	1.294	PASS
Band66	20MHz	QPSK	132572	6	0	High	1.1113	1.282	PASS
Band66	1.4MHz	16QAM	131979	5	0	Low	0.90391	1.113	PASS
Band66	1.4MHz	16QAM	132322	5	0	Low	0.90960	1.086	PASS
Band66	1.4MHz	16QAM	132665	5	0	High	0.90313	1.064	PASS
Band66	3MHz	16QAM	131987	5	0	Low	0.91505	1.095	PASS
Band66	3MHz	16QAM	132322	5	0	Low	0.91502	1.091	PASS
Band66	3MHz	16QAM	132657	5	0	High	0.91347	1.087	PASS
Band66	5MHz	16QAM	131997	5	0	Low	0.91794	1.100	PASS
Band66	5MHz	16QAM	132322	5	0	Low	0.91581	1.095	PASS
Band66	5MHz	16QAM	132647	5	0	High	0.91341	1.094	PASS
Band66	10MHz	16QAM	132022	5	0	Low	0.91893	1.109	PASS
Band66	10MHz	16QAM	132322	5	0	Low	0.92247	1.103	PASS
Band66	10MHz	16QAM	132622	5	0	High	0.92349	1.081	PASS
Band66	15MHz	16QAM	132047	5	0	Low	0.93234	1.117	PASS
Band66	15MHz	16QAM	132322	5	0	Low	0.92534	1.103	PASS
Band66	15MHz	16QAM	132597	5	0	High	0.92501	1.129	PASS
Band66	20MHz	16QAM	132072	5	0	Low	0.94774	1.130	PASS
Band66	20MHz	16QAM	132322	5	0	Low	0.94941	1.118	PASS
Band66	20MHz	16QAM	132572	5	0	High	0.94254	1.119	PASS

Test Graphs



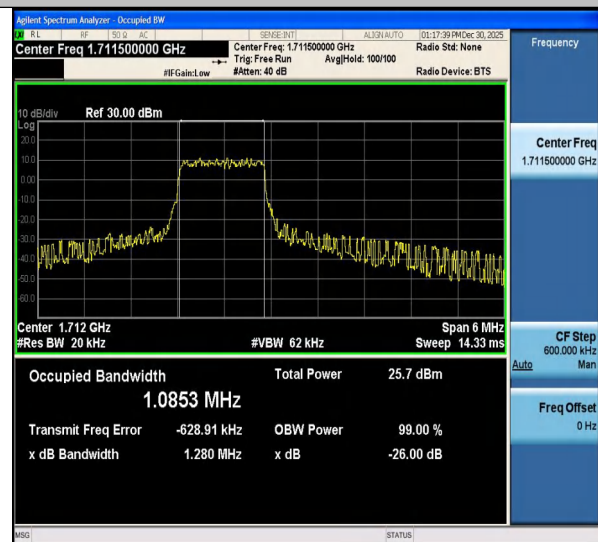
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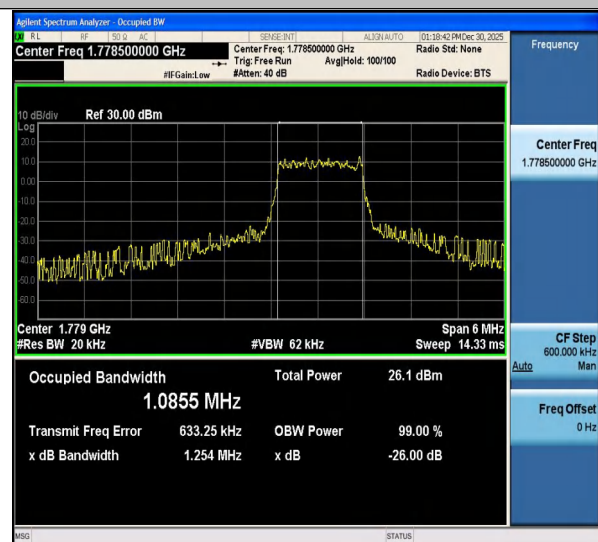
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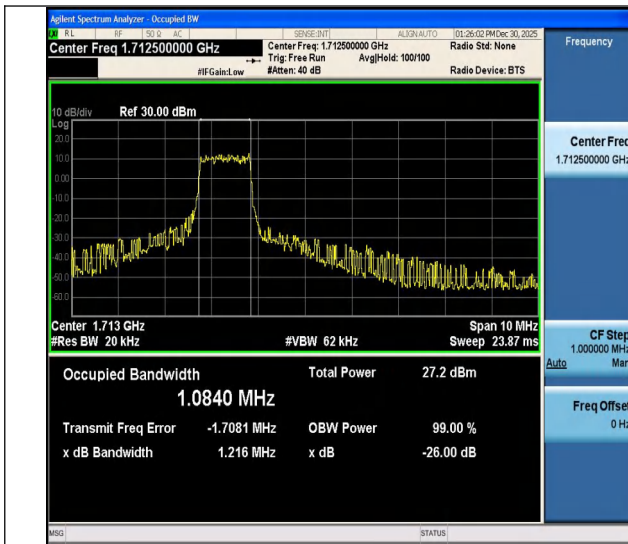
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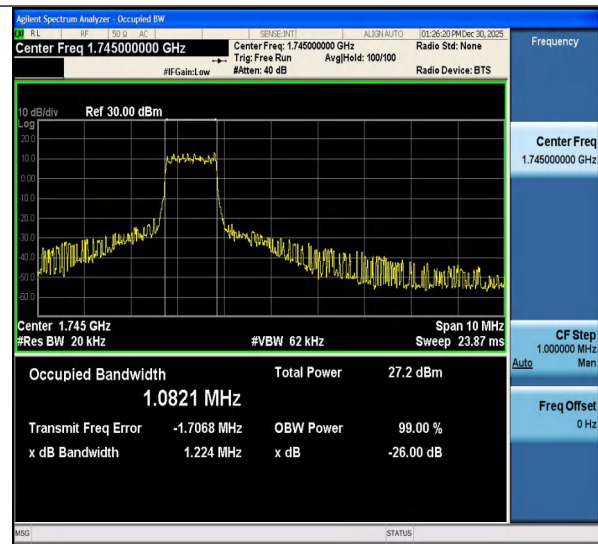
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Band66-3MHz-QPSK-132657-6#0-PASS



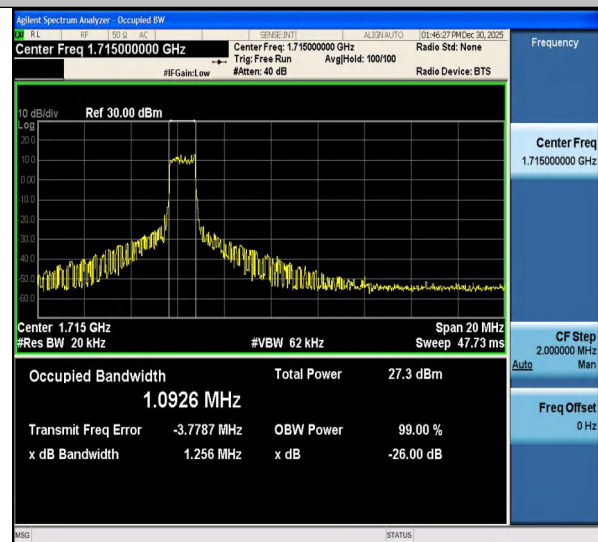
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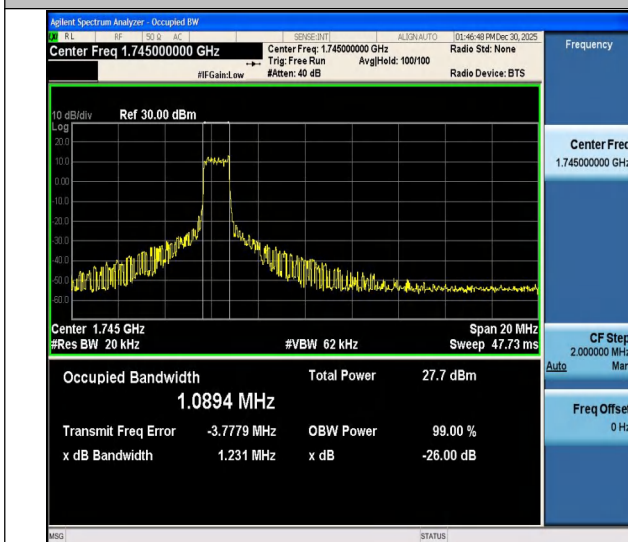
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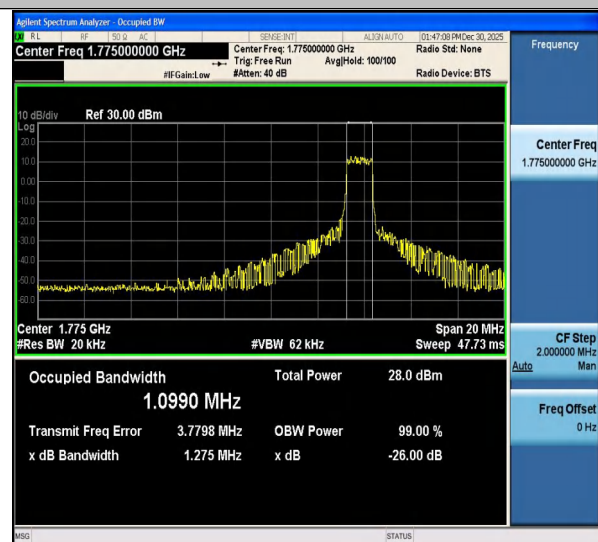
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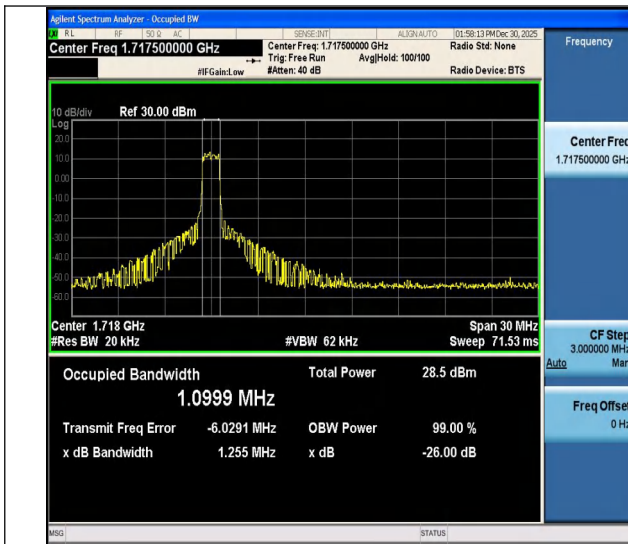
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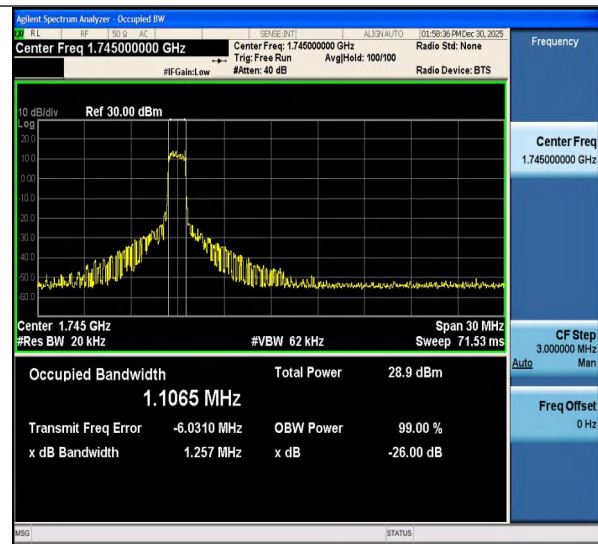
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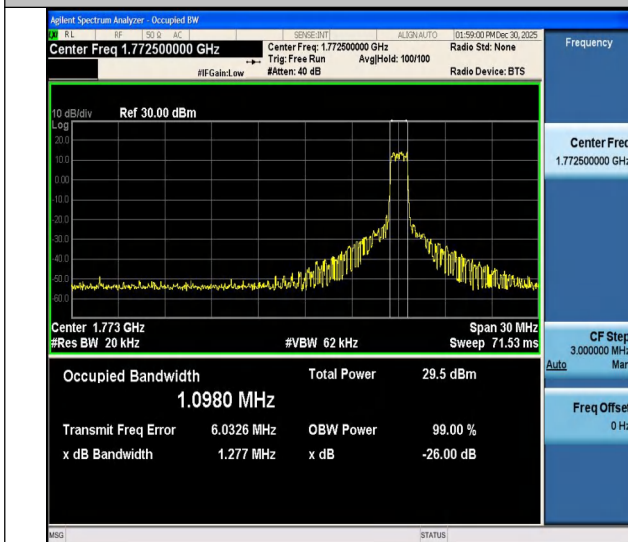
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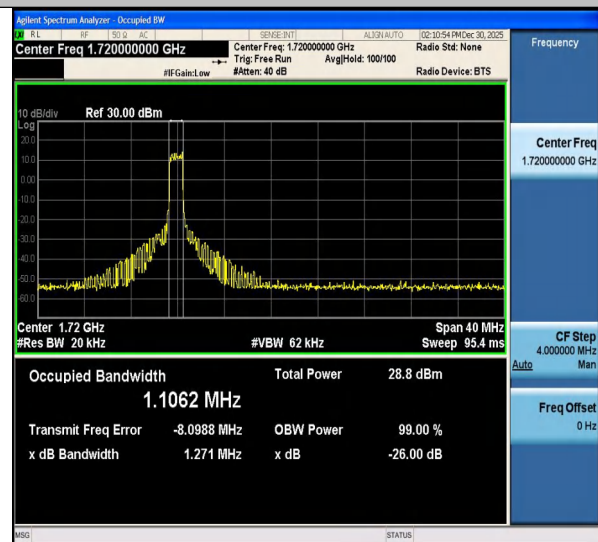
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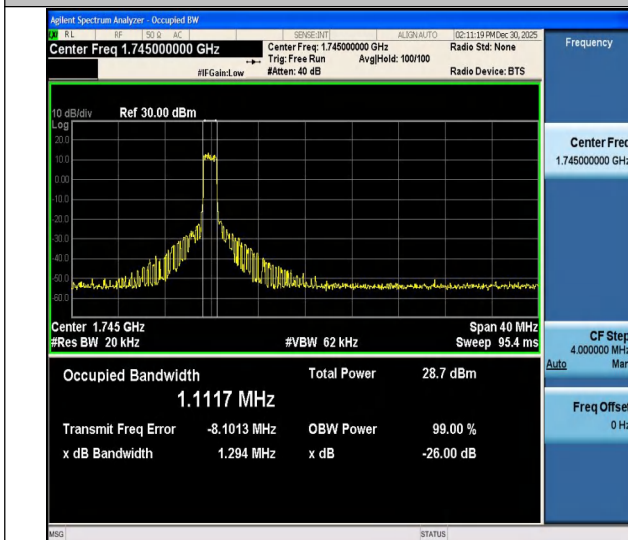
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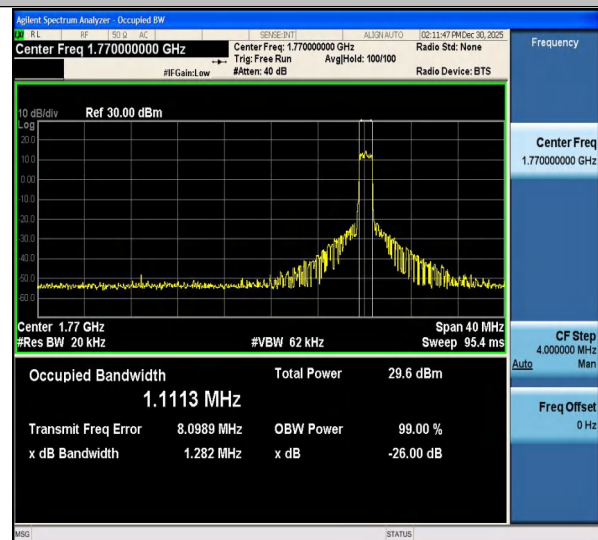
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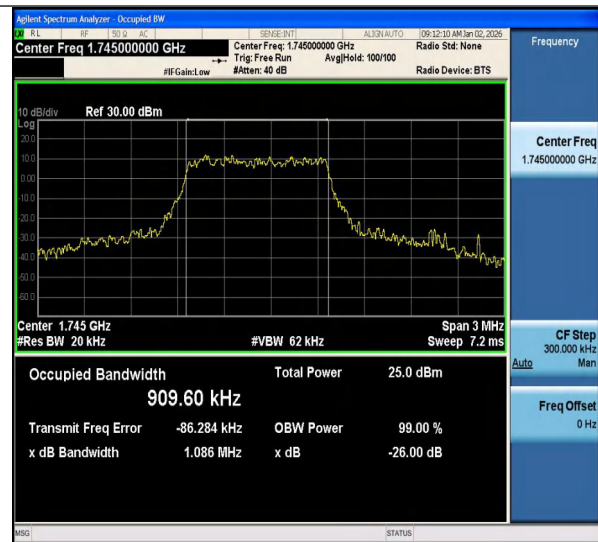
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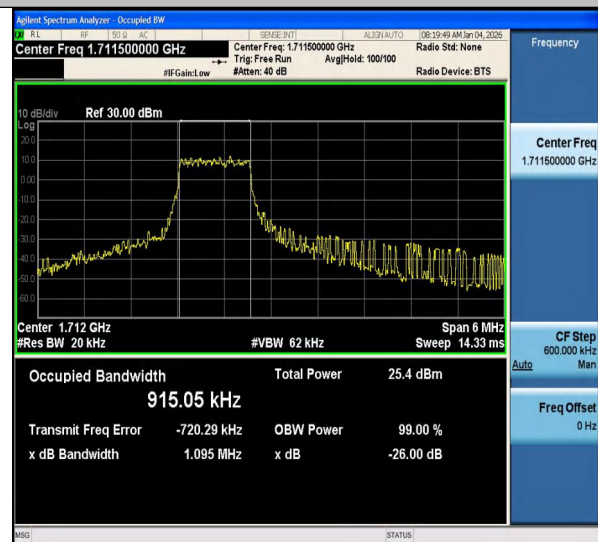
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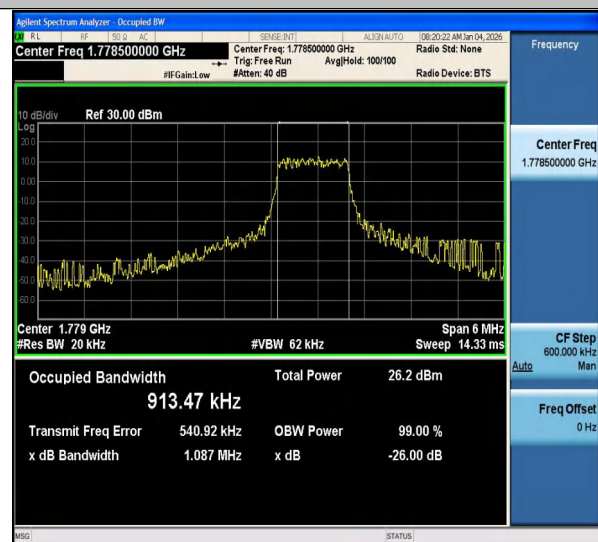
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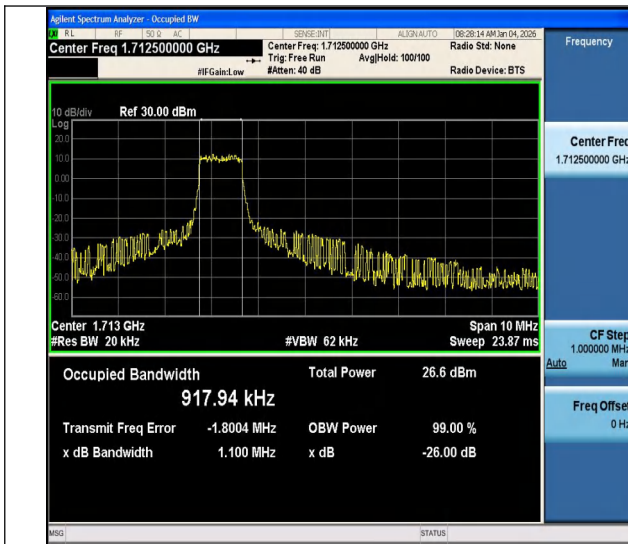
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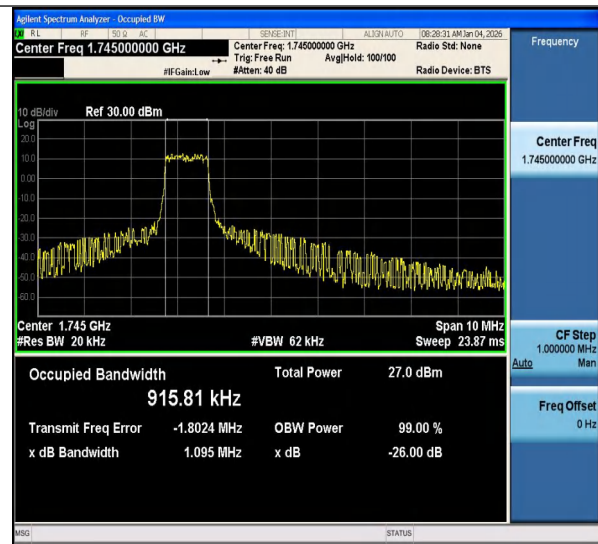
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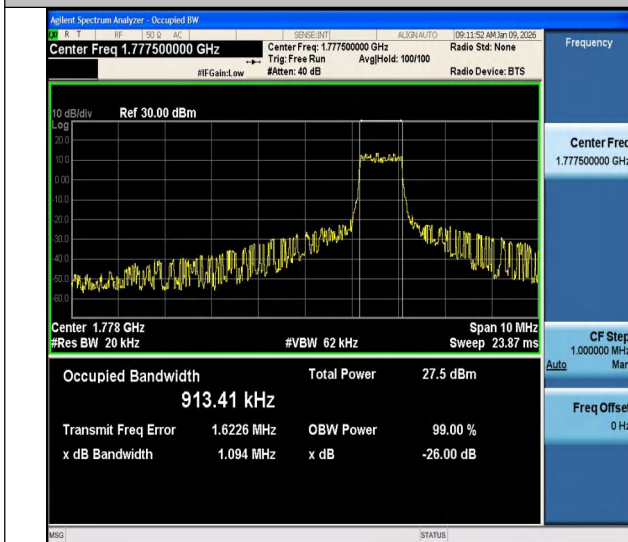
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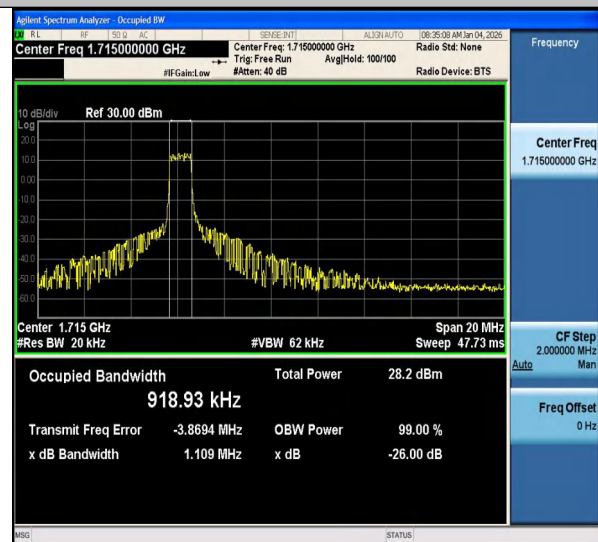
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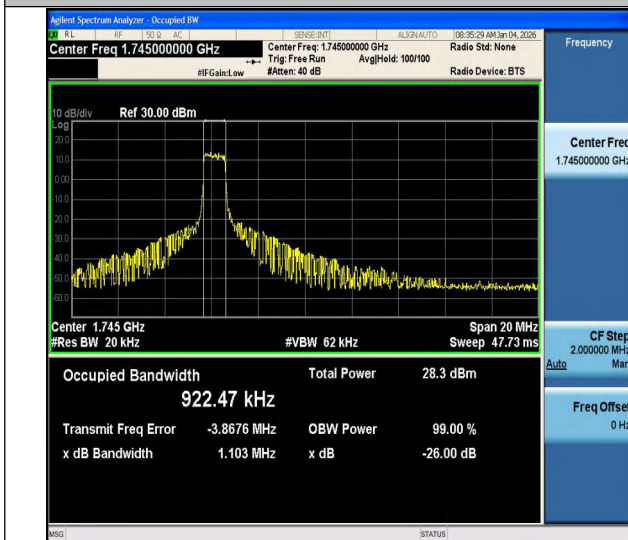
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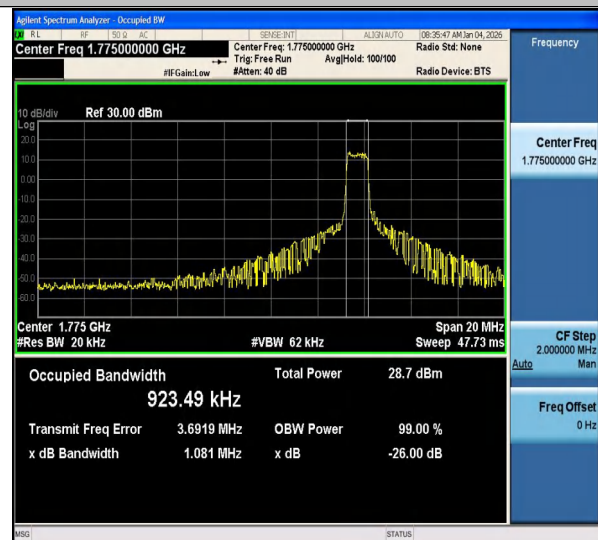
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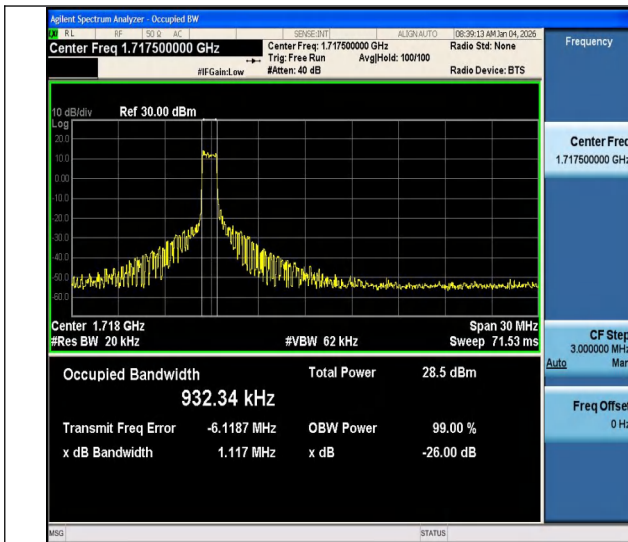
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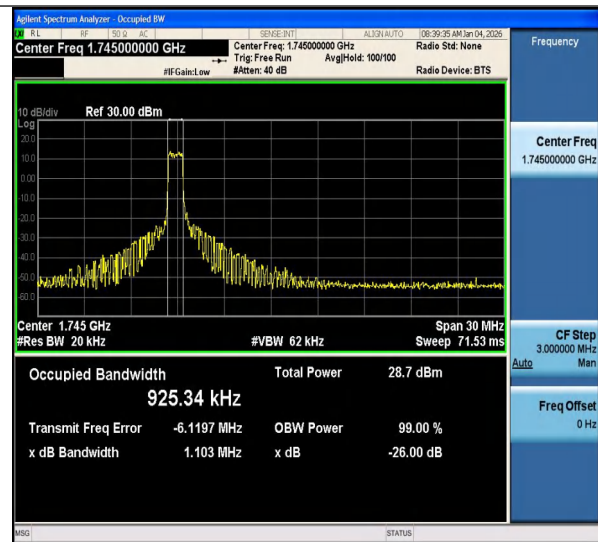
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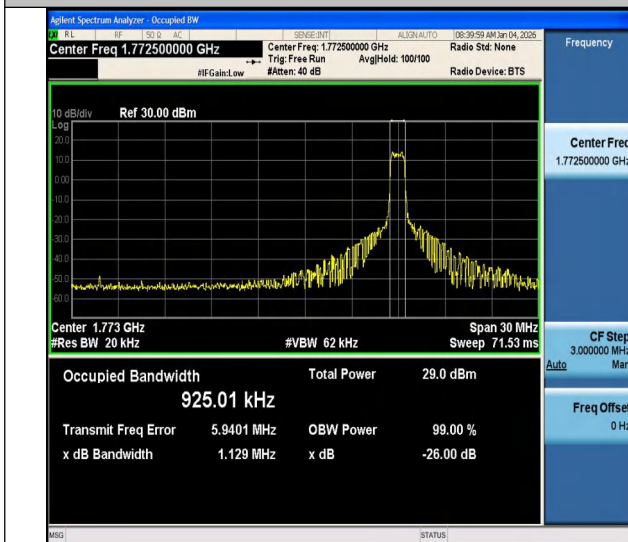
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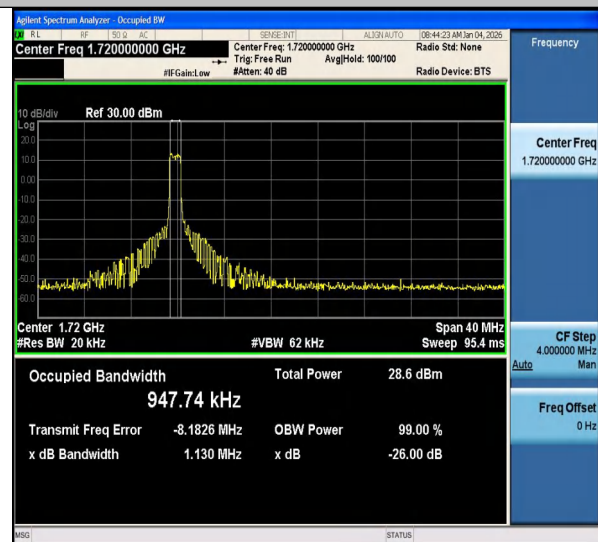
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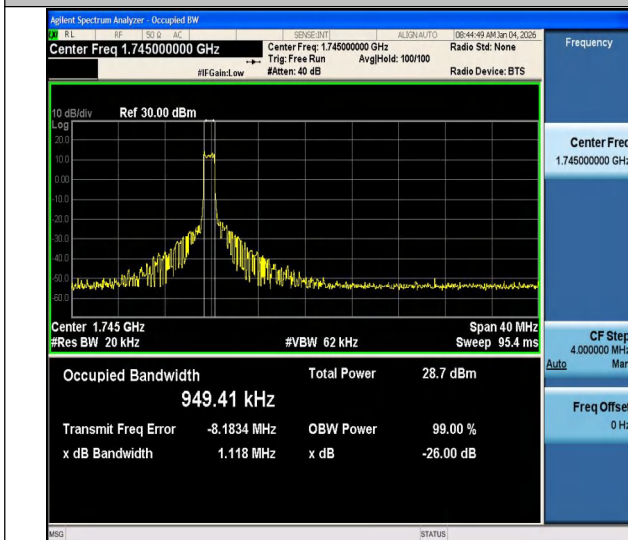
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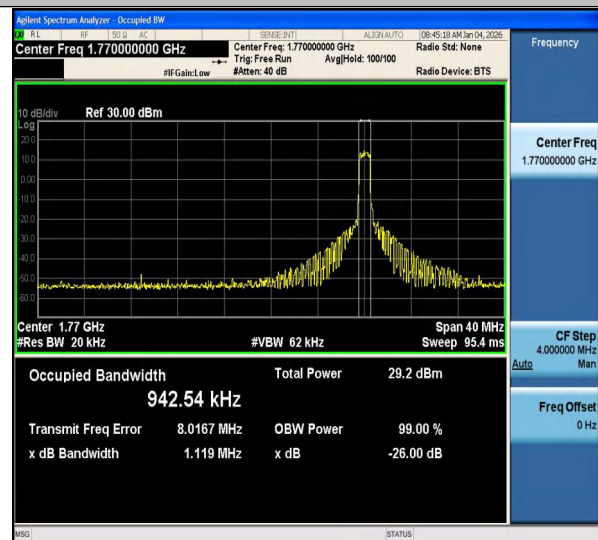
Band66-15MHz-16QAM-132597-5#0-PASS



Band66-20MHz-16QAM-132072-5#0-PASS



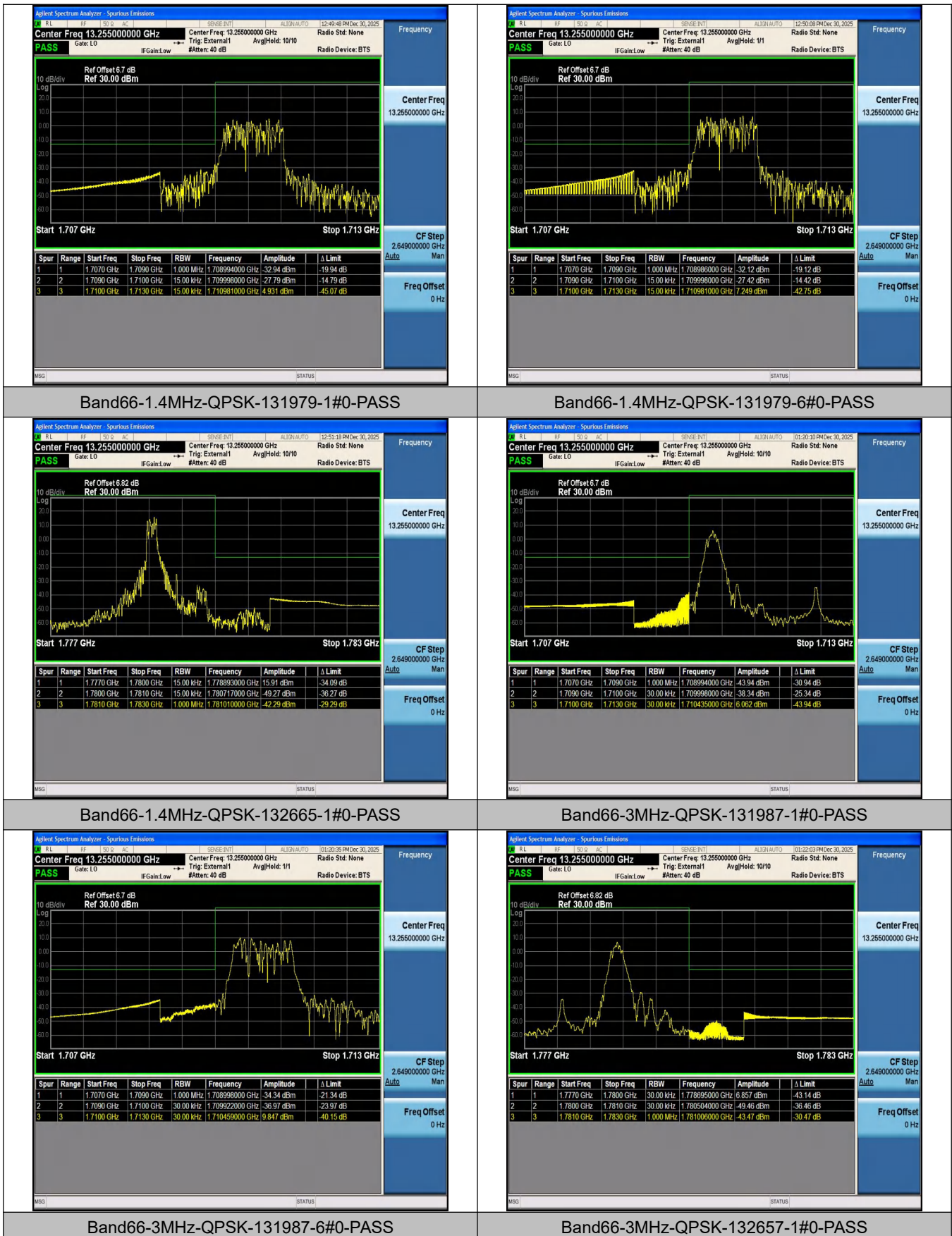
Band66-20MHz-16QAM-132322-5#0-PASS



Band66-20MHz-16QAM-132572-5#0-PASS

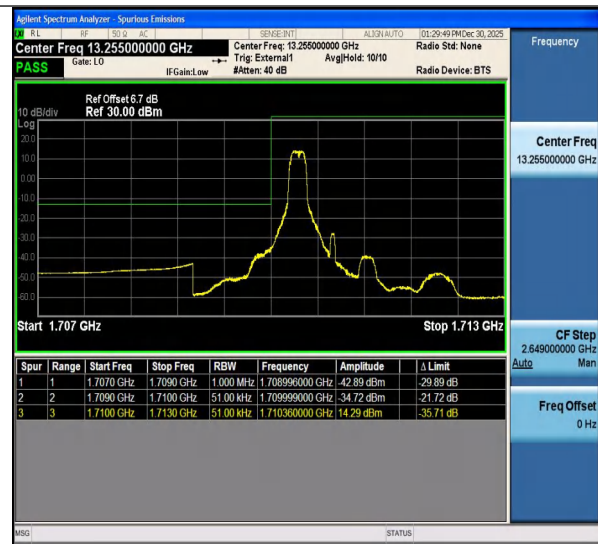
Band Edge for M1

Test Graphs





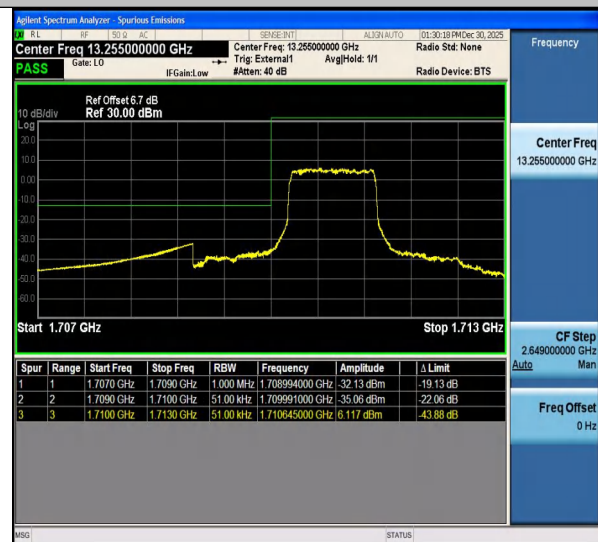
Band66-3MHz-QPSK-132657-6#0-PASS



Band66-5MHz-QPSK-131997-1#0-PASS



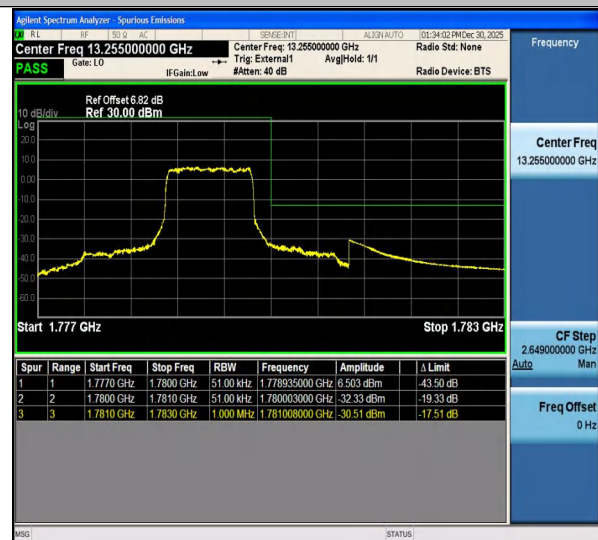
Band66-1.4MHz-QPSK-132665-6#0-PASS



Band66-5MHz-QPSK-131997-6#0-PASS



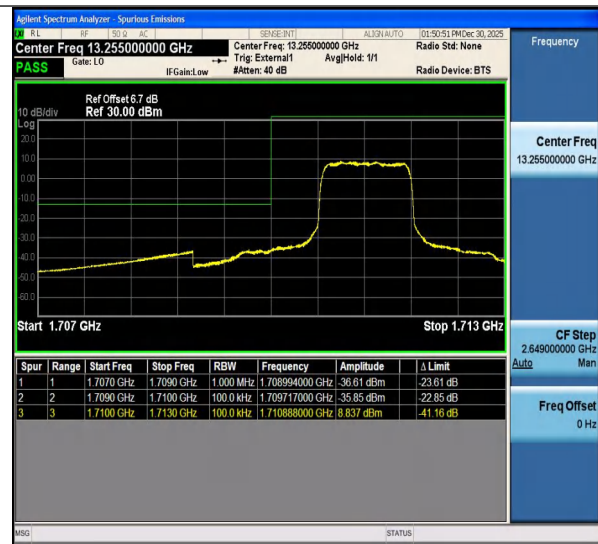
Band66-5MHz-QPSK-132647-1#0-PASS



Band66-5MHz-QPSK-132647-6#0-PASS



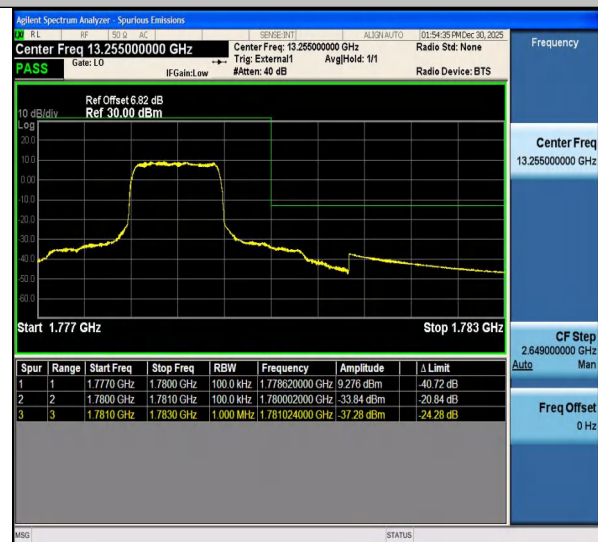
Band66-10MHz-QPSK-132022-1#0-PASS



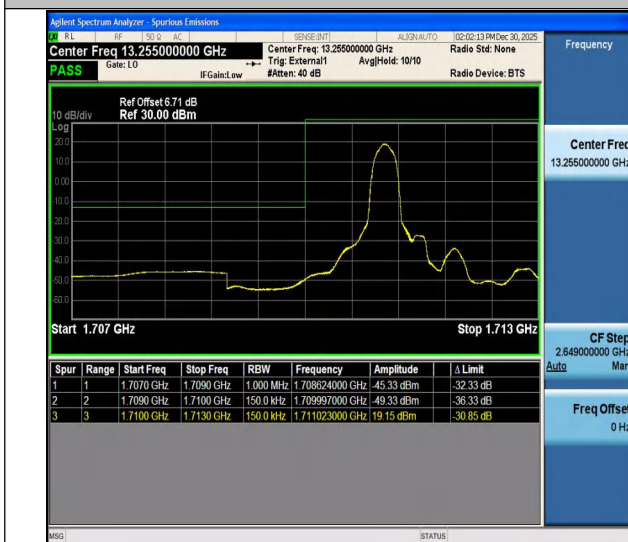
Band66-10MHz-QPSK-132022-6#0-PASS



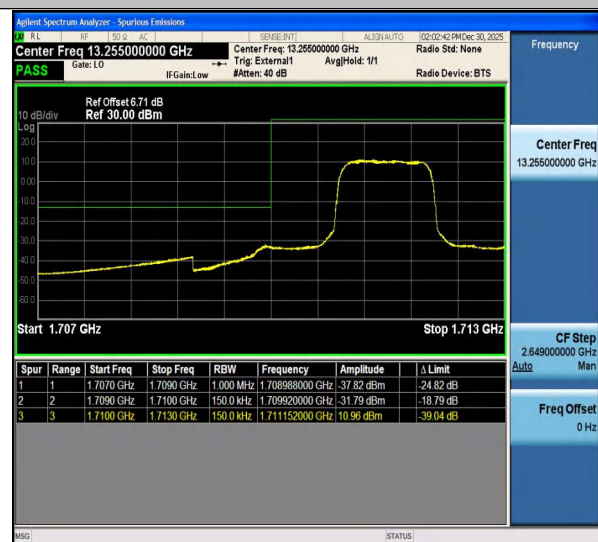
Band66-10MHz-QPSK-132622-1#0-PASS



Band66-10MHz-QPSK-132622-6#0-PASS



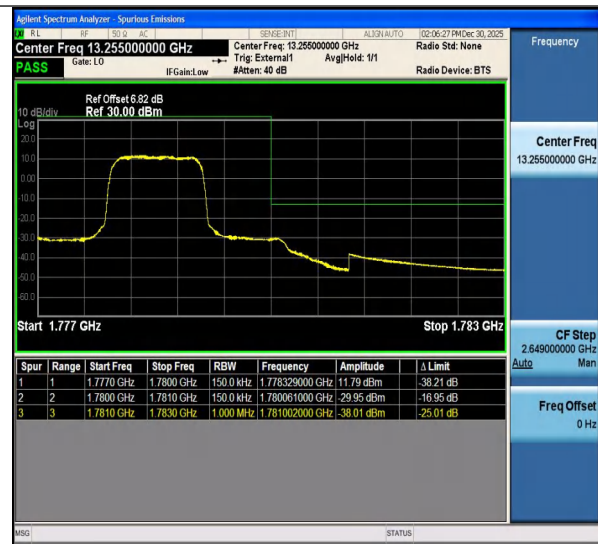
Band66-15MHz-QPSK-132047-1#0-PASS



Band66-15MHz-QPSK-132047-6#0-PASS



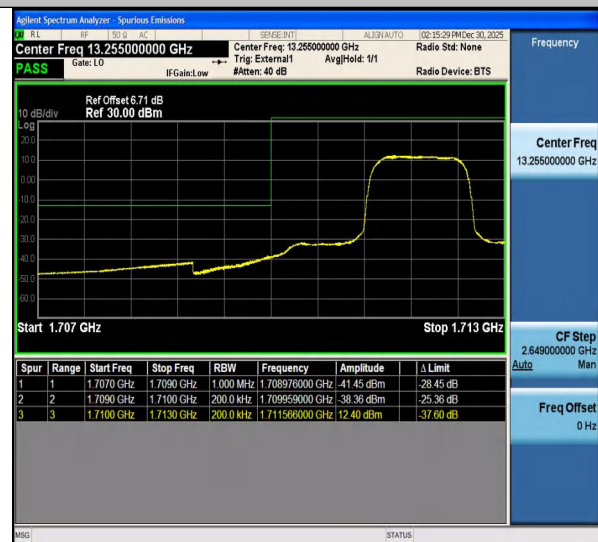
Band66-15MHz-QPSK-132597-1#0-PASS



Band66-15MHz-QPSK-132597-6#0-PASS



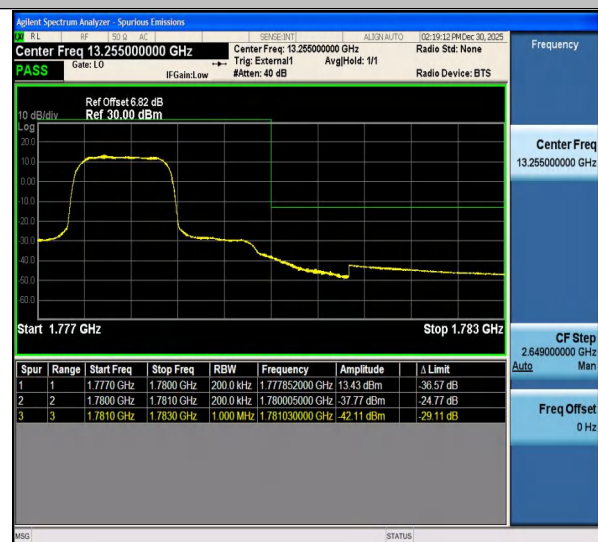
Band66-20MHz-QPSK-132072-1#0-PASS



Band66-20MHz-QPSK-132072-6#0-PASS



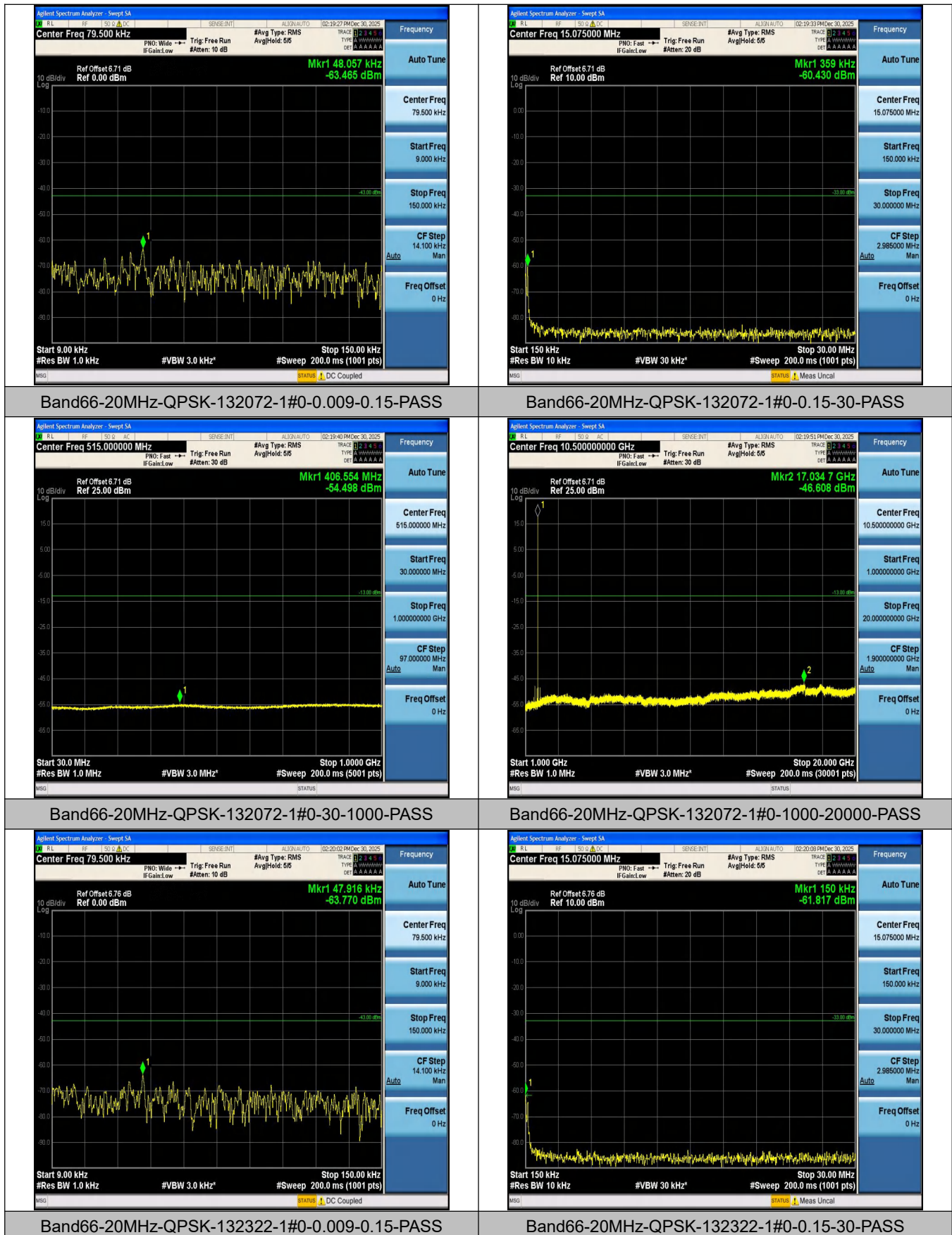
Band66-20MHz-QPSK-132572-1#0-PASS

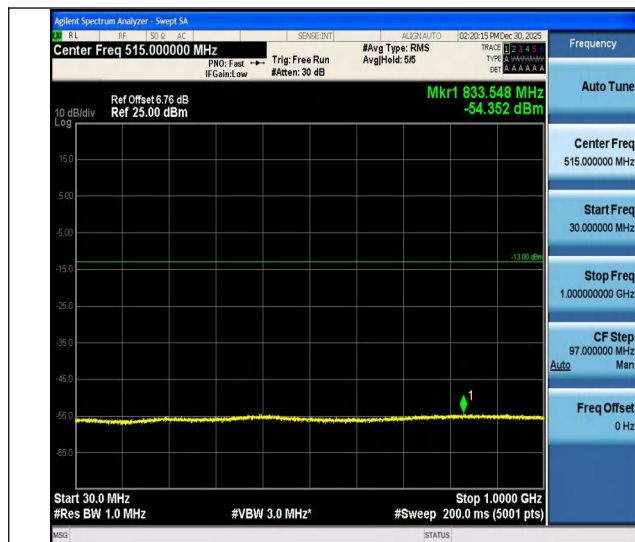


Band66-20MHz-QPSK-132572-6#0-PASS

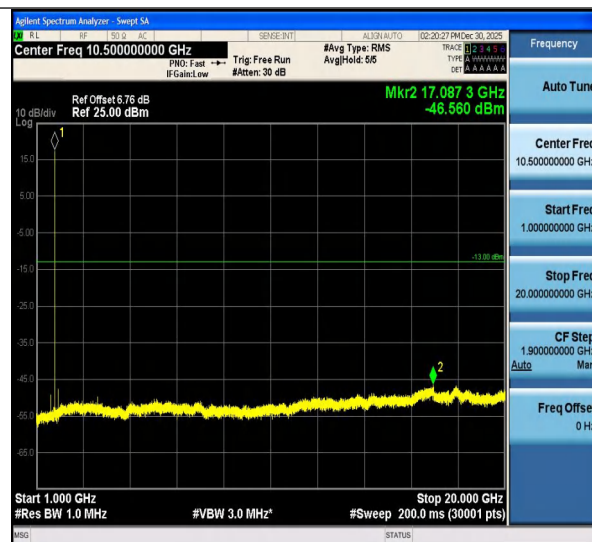
Conducted Spurious Emission for M1

Test Graphs

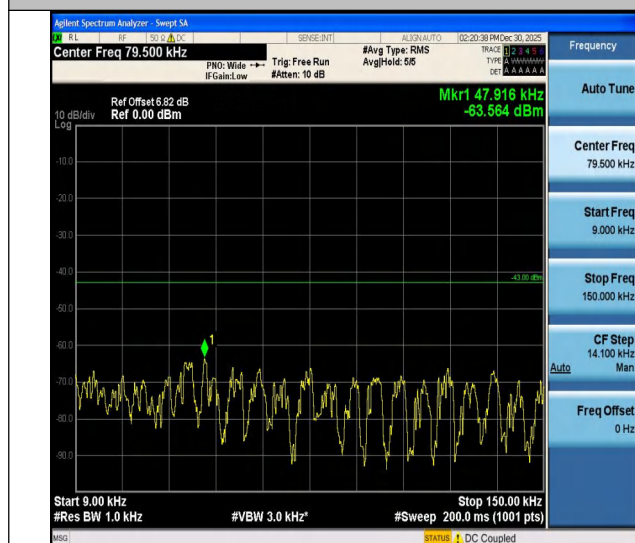




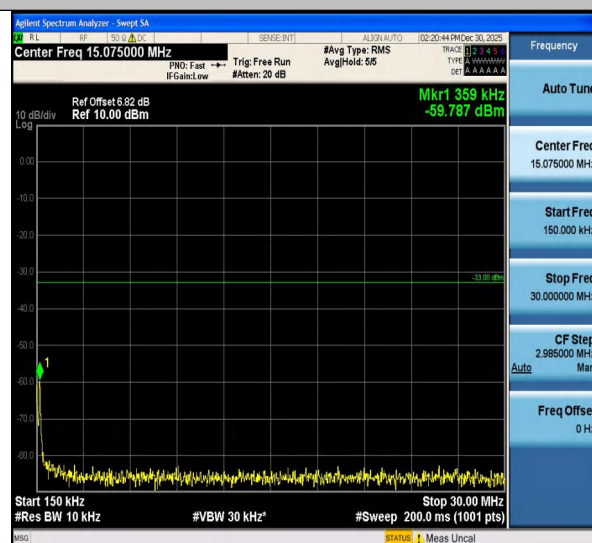
Band66-20MHz-QPSK-132322-1#0-30-1000-PASS



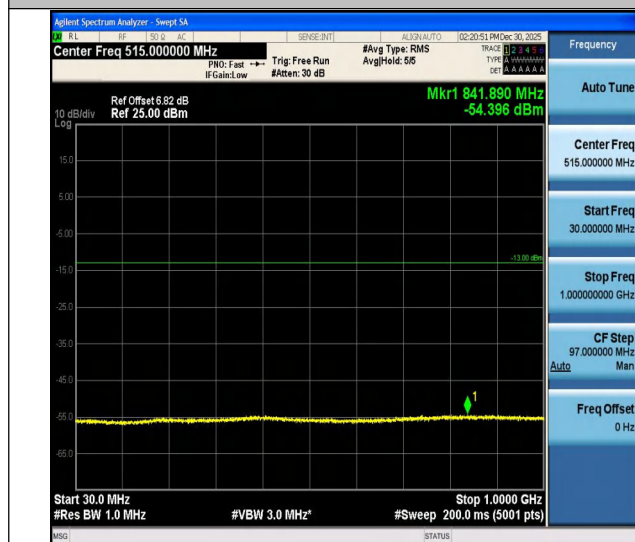
Band66-20MHz-QPSK-132322-1#0-1000-20000-PASS



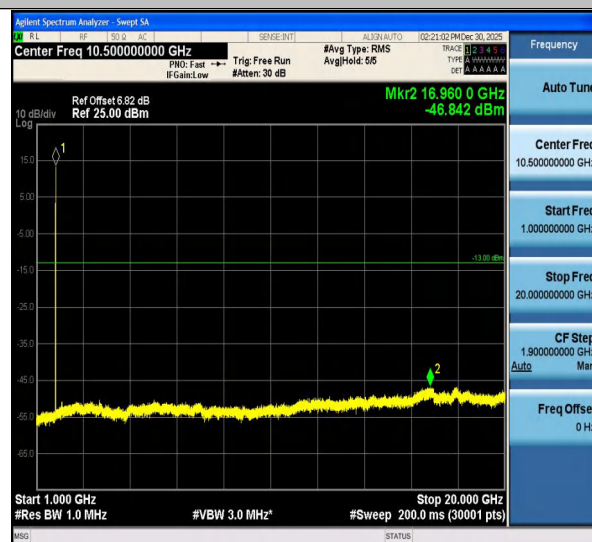
Band66-20MHz-QPSK-132572-1#0-0.009-0.15-PASS



Band66-20MHz-QPSK-132572-1#0-0.15-30-PASS



Band66-20MHz-QPSK-132572-1#0-30-1000-PASS



Band66-20MHz-QPSK-132572-1#0-1000-20000-PASS

Frequency Stability for M1

Test Result

Voltage											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	6	0	Low	VN	NT	-3.40	-0.001948	PASS
Band66	20MHz	QPSK	132322	6	0	Low	VL	NT	-5.10	-0.002923	PASS
Band66	20MHz	QPSK	132322	6	0	Low	VH	NT	-1.40	-0.000802	PASS

Temperature											
Band	Bandwidth	Modulation	Channel	RB Size	RB Start	NB Index	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	6	0	Low	NV	-30	0.00	0.000000	PASS
Band66	20MHz	QPSK	132322	6	0	Low	NV	-20	1.50	0.000860	PASS
Band66	20MHz	QPSK	132322	6	0	Low	NV	-10	-2.10	-0.001203	PASS
Band66	20MHz	QPSK	132322	6	0	Low	NV	0	-2.30	-0.001318	PASS
Band66	20MHz	QPSK	132322	6	0	Low	NV	10	-4.60	-0.002636	PASS
Band66	20MHz	QPSK	132322	6	0	Low	NV	20	-1.80	-0.001032	PASS
Band66	20MHz	QPSK	132322	6	0	Low	NV	30	-5.00	-0.002865	PASS
Band66	20MHz	QPSK	132322	6	0	Low	NV	40	-1.50	-0.000860	PASS
Band66	20MHz	QPSK	132322	6	0	Low	NV	50	-1.80	-0.001032	PASS

~The End~