

Appendix for WCDMA Band 4

Product Name: TITAN 5400

Model No: G5G-X62O

AppendixA: Average Power Output Data

Test Result

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	22.85	30.00	PASS
Band4	1413	22.69	30.00	PASS
Band4	1513	22.93	30.00	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.56	30.00	PASS
Band4	1312	2	21.06	30.00	PASS
Band4	1312	3	21.03	30.00	PASS
Band4	1312	4	21.04	30.00	PASS
Band4	1413	1	21.39	30.00	PASS
Band4	1413	2	20.92	30.00	PASS
Band4	1413	3	20.78	30.00	PASS
Band4	1413	4	20.80	30.00	PASS
Band4	1513	1	21.49	30.00	PASS
Band4	1513	2	21.07	30.00	PASS
Band4	1513	3	21.04	30.00	PASS
Band4	1513	4	21.01	30.00	PASS

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	20.66	30.00	PASS
Band4	1312	2	20.71	30.00	PASS
Band4	1312	3	20.87	30.00	PASS
Band4	1312	4	20.34	30.00	PASS
Band4	1312	5	20.89	30.00	PASS
Band4	1413	1	20.52	30.00	PASS
Band4	1413	2	20.55	30.00	PASS
Band4	1413	3	20.69	30.00	PASS
Band4	1413	4	20.58	30.00	PASS
Band4	1413	5	20.53	30.00	PASS
Band4	1513	1	20.76	30.00	PASS
Band4	1513	2	20.82	30.00	PASS
Band4	1513	3	20.84	30.00	PASS
Band4	1513	4	20.40	30.00	PASS
Band4	1513	5	20.88	30.00	PASS

AppendixB:Peak-to-Average Ratio

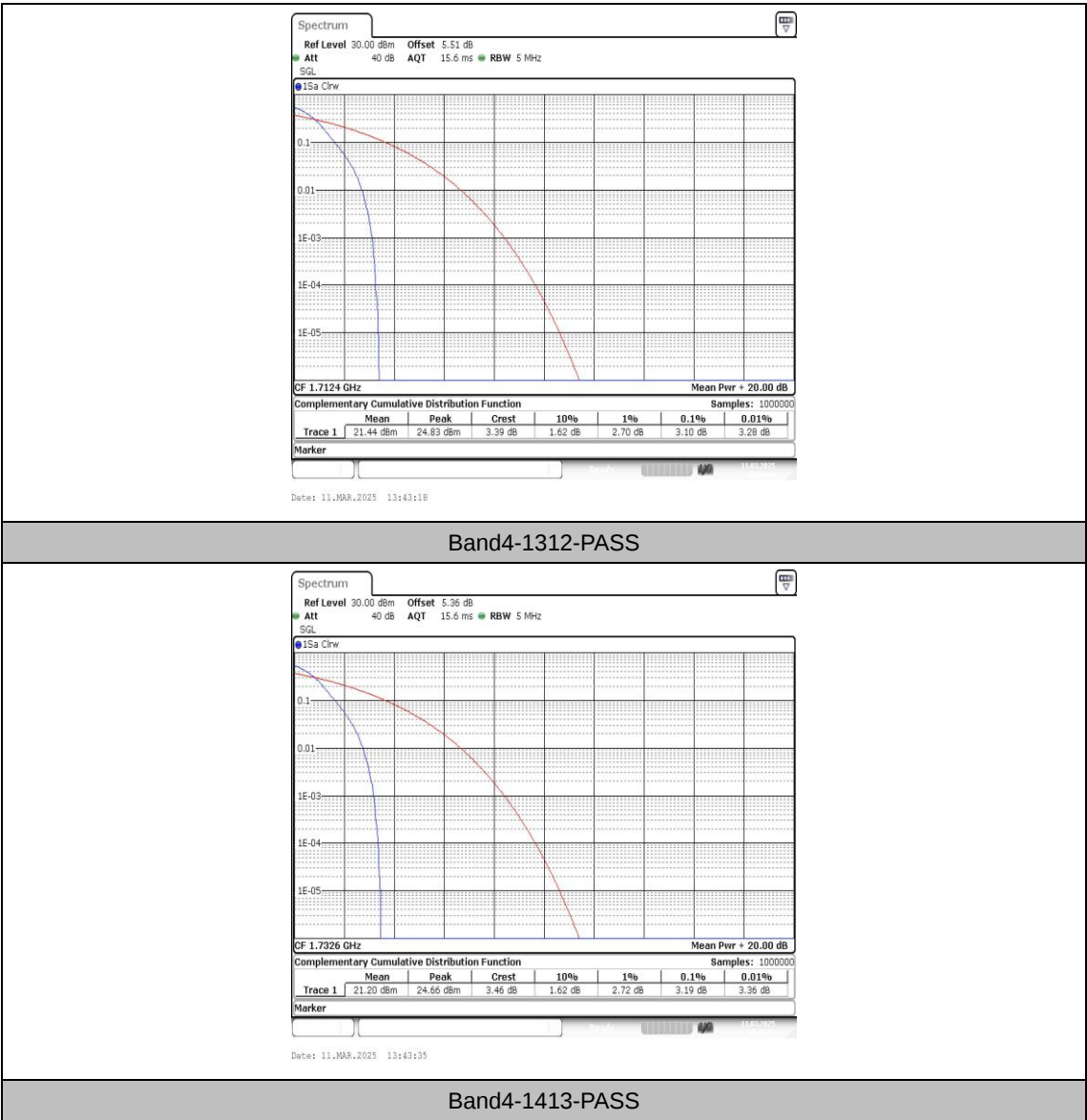
Test Result

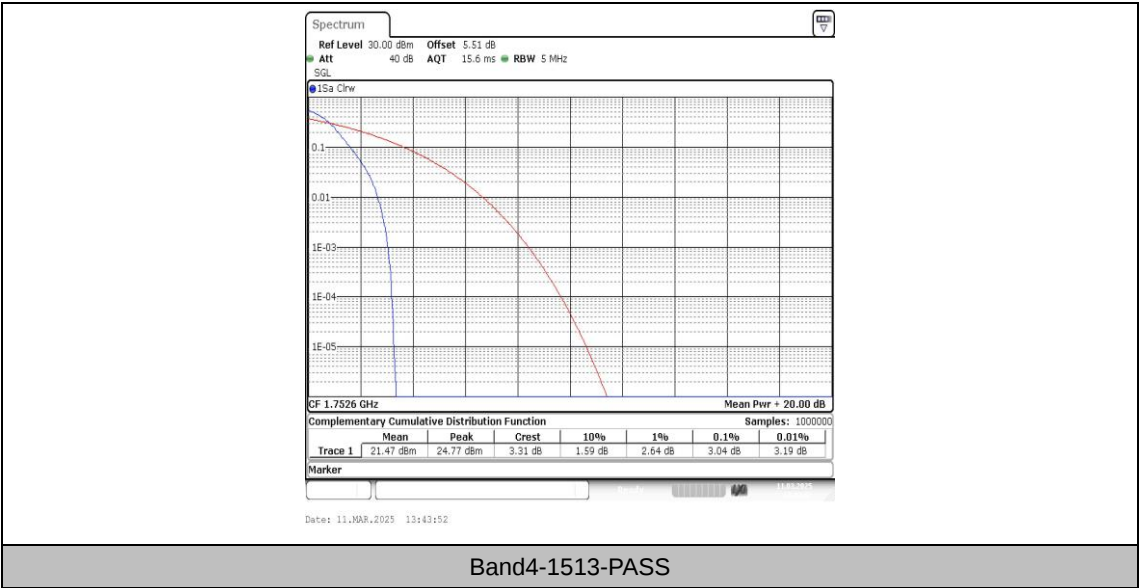
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.1	13	PASS
Band4	1413	3.19	13	PASS
Band4	1513	3.04	13	PASS

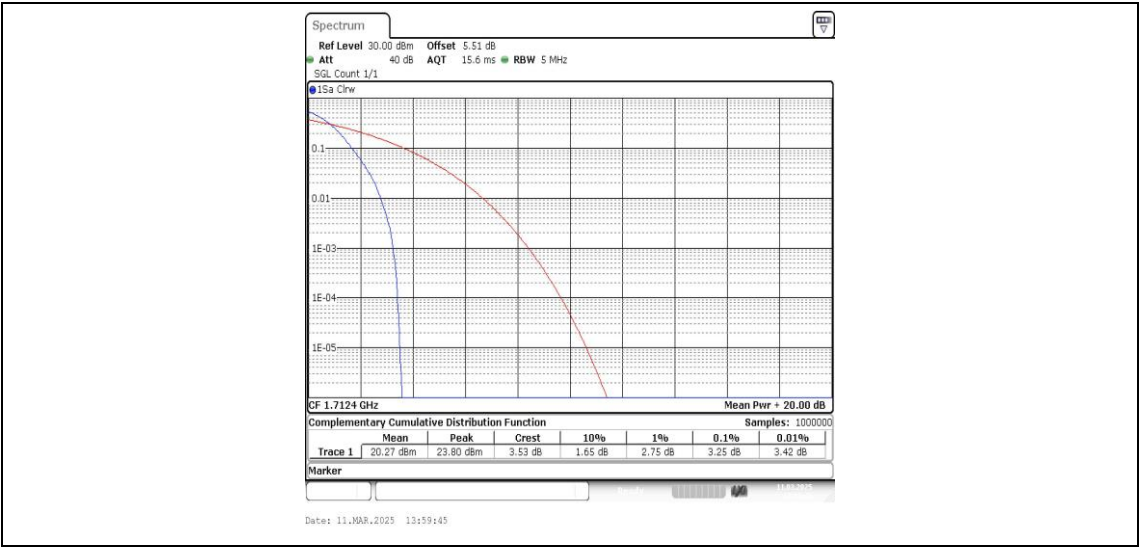
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	3.25	13	PASS
Band4	1312	2	3.45	13	PASS
Band4	1312	3	3.62	13	PASS
Band4	1312	4	3.65	13	PASS
Band4	1413	1	3.22	13	PASS
Band4	1413	2	3.45	13	PASS
Band4	1413	3	3.65	13	PASS
Band4	1413	4	3.71	13	PASS
Band4	1513	1	3.16	13	PASS
Band4	1513	2	3.39	13	PASS
Band4	1513	3	3.57	13	PASS
Band4	1513	4	3.62	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	4.52	13	PASS
Band4	1312	2	5.54	13	PASS
Band4	1312	3	5.04	13	PASS
Band4	1312	4	5.62	13	PASS
Band4	1312	5	4.29	13	PASS
Band4	1413	1	4.55	13	PASS
Band4	1413	2	5.51	13	PASS
Band4	1413	3	5.04	13	PASS
Band4	1413	4	5.59	13	PASS
Band4	1413	5	4.32	13	PASS
Band4	1513	1	4.52	13	PASS
Band4	1513	2	5.45	13	PASS
Band4	1513	3	4.96	13	PASS
Band4	1513	4	5.57	13	PASS
Band4	1513	5	4.23	13	PASS

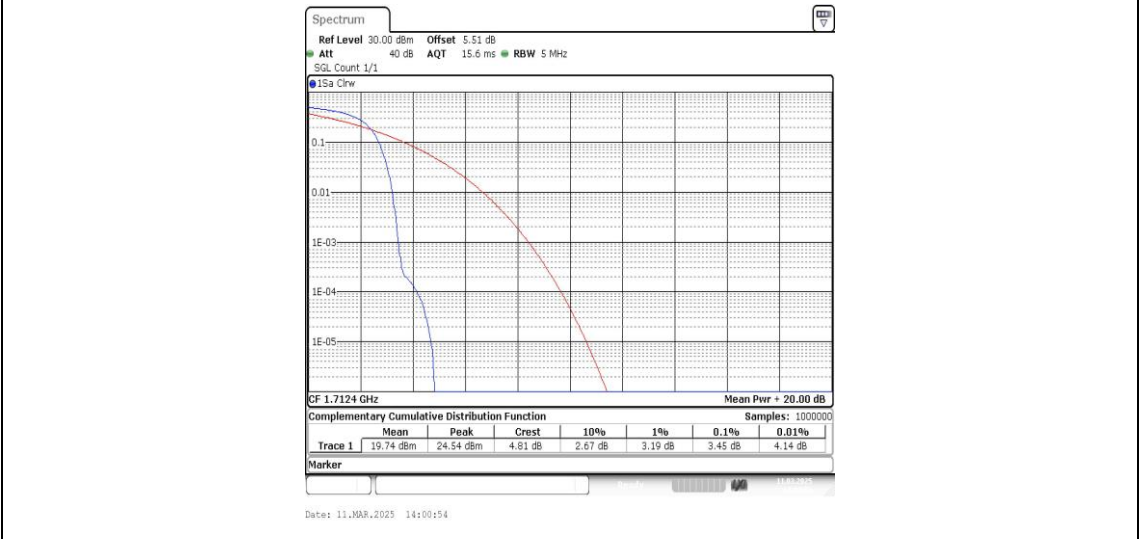
Test Graphs



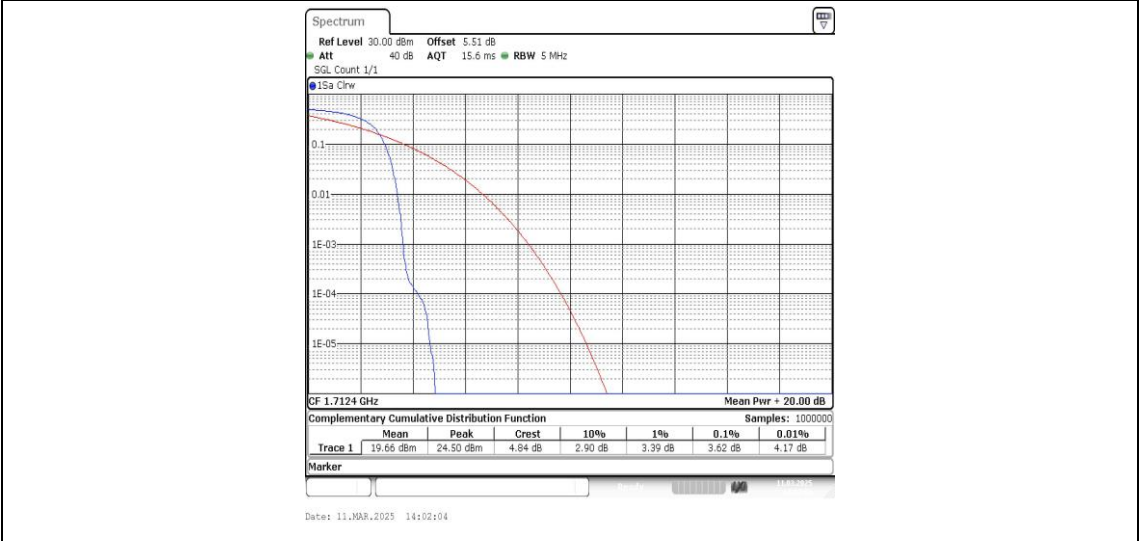




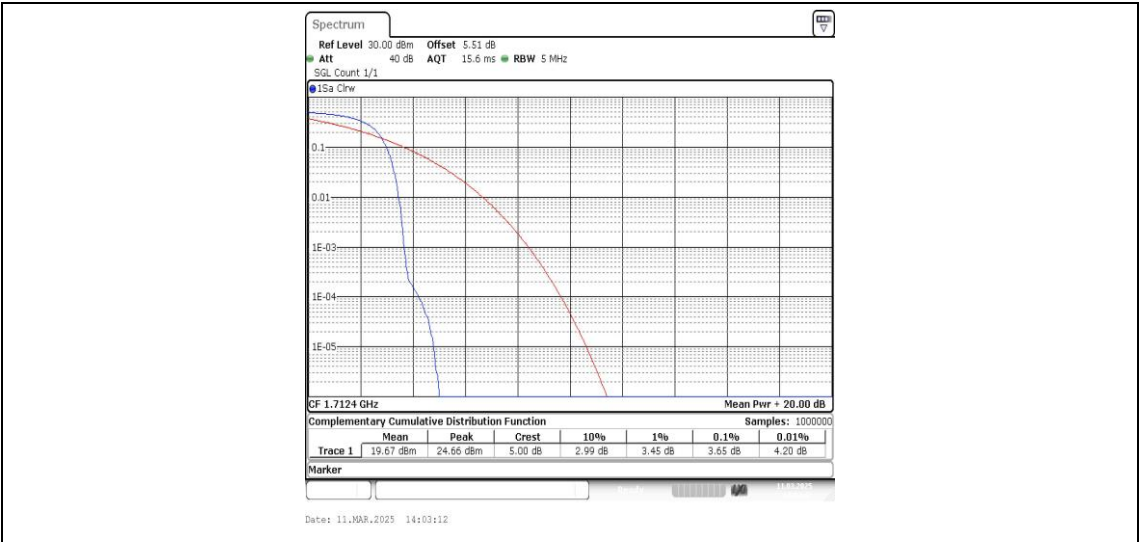
Band4-1312-1-PASS



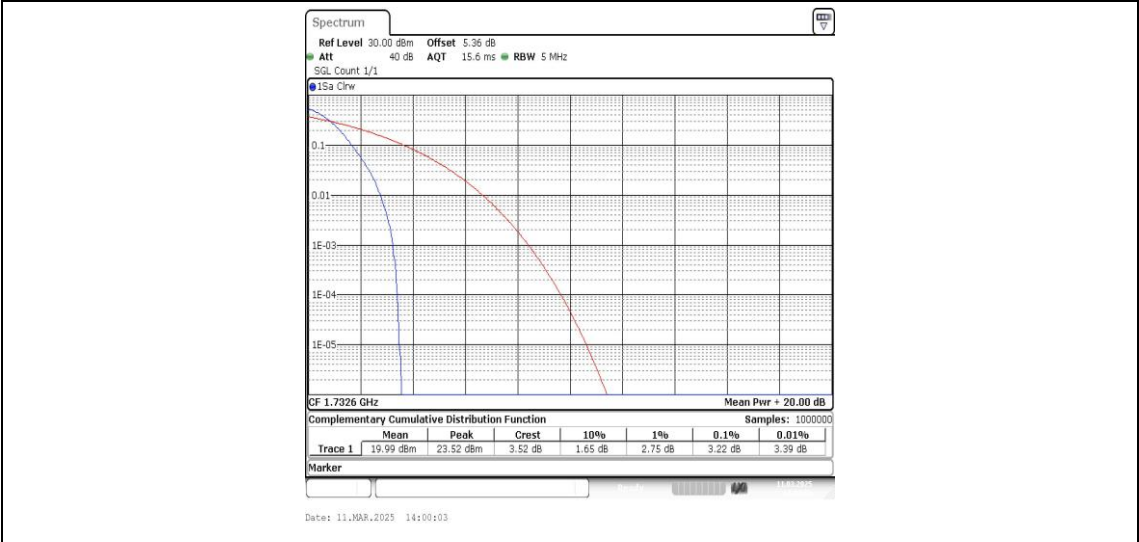
Band4-1312-2-PASS



Band4-1312-3-PASS



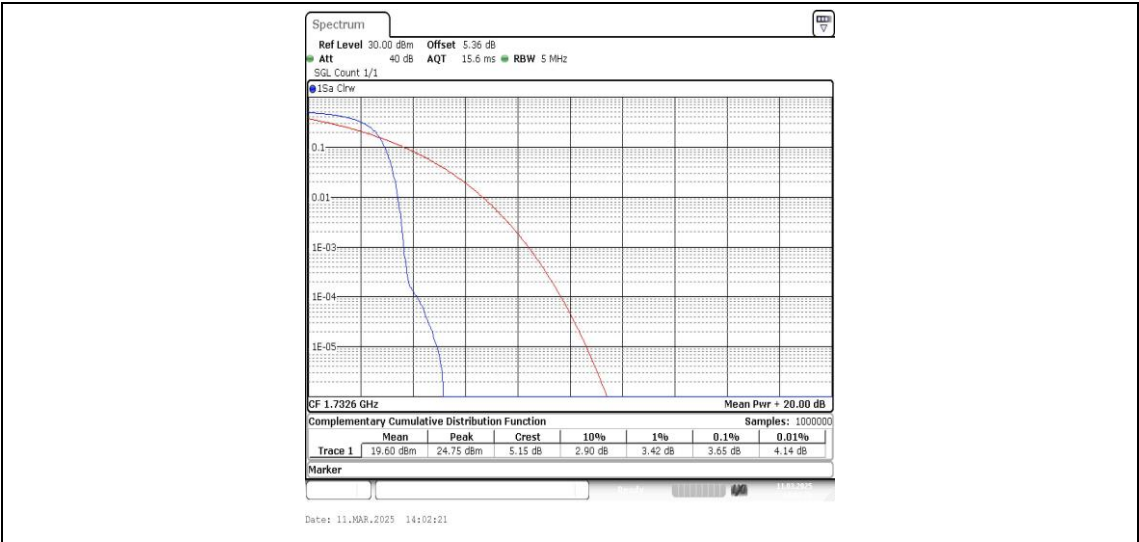
Band4-1312-4-PASS



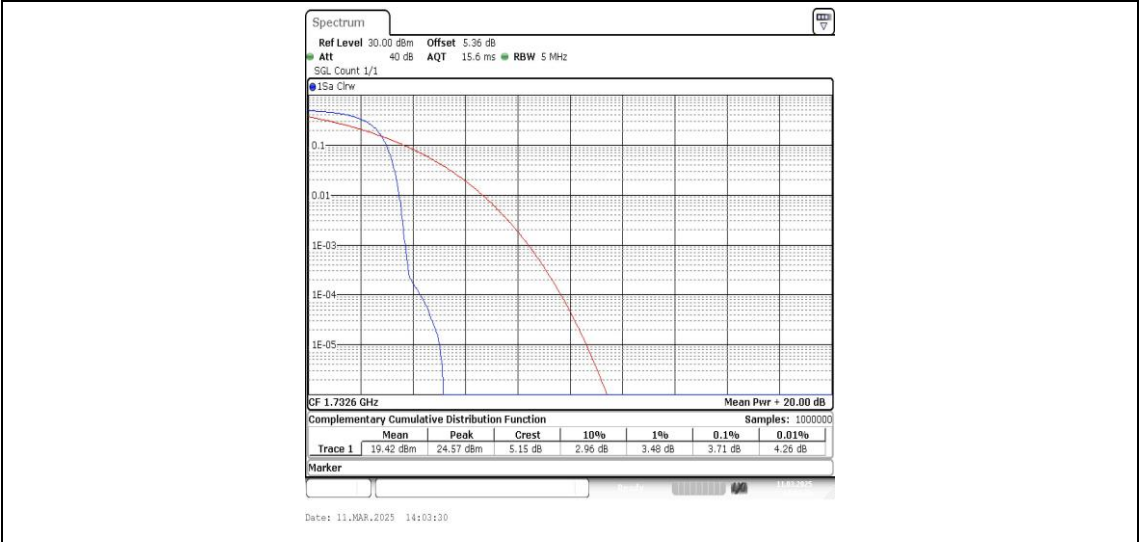
Band4-1413-1-PASS



Band4-1413-2-PASS



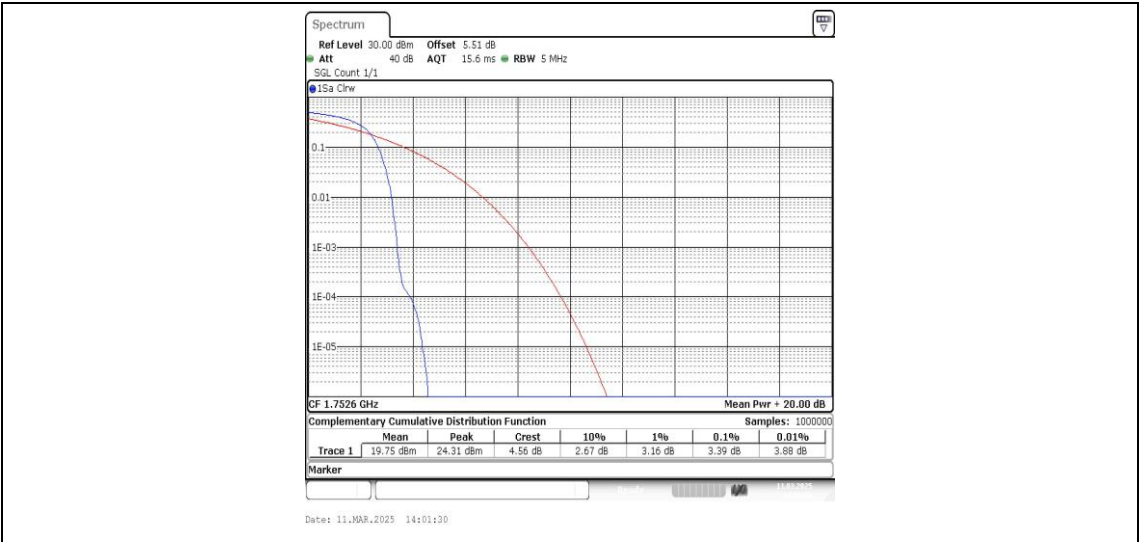
Band4-1413-3-PASS



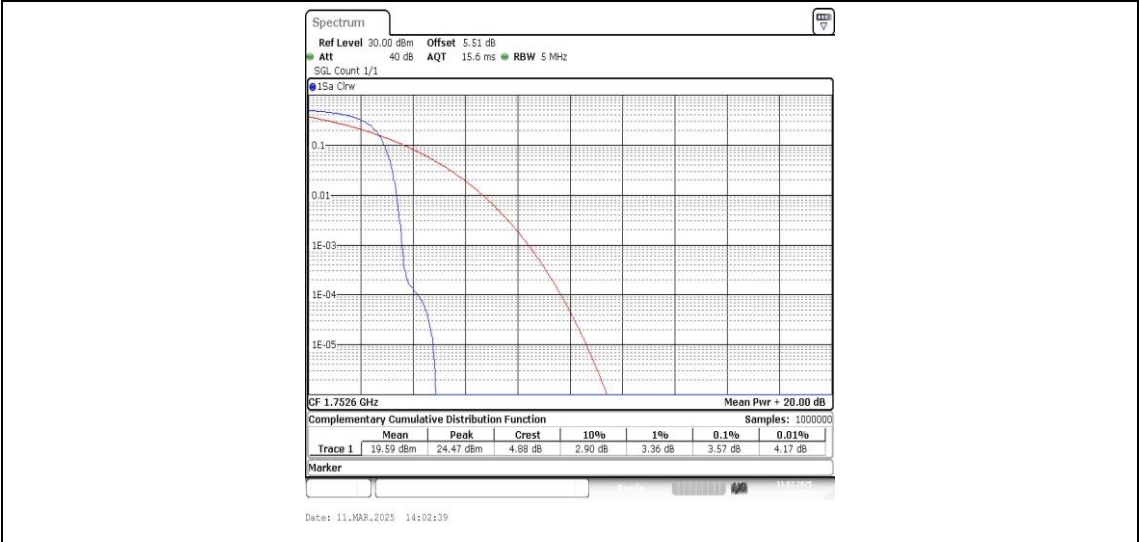
Band4-1413-4-PASS



Band4-1513-1-PASS



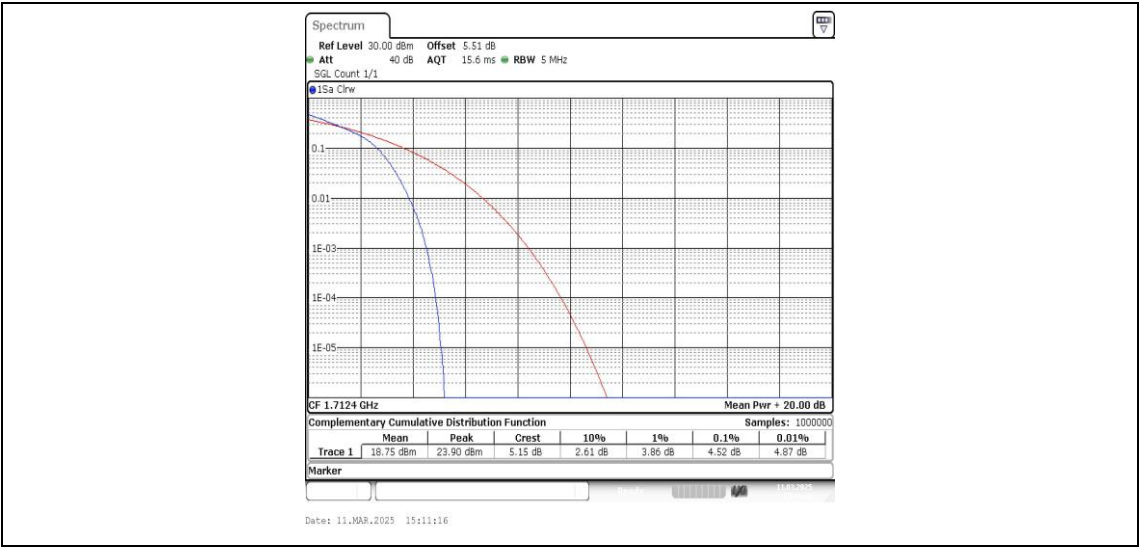
Band4-1513-2-PASS



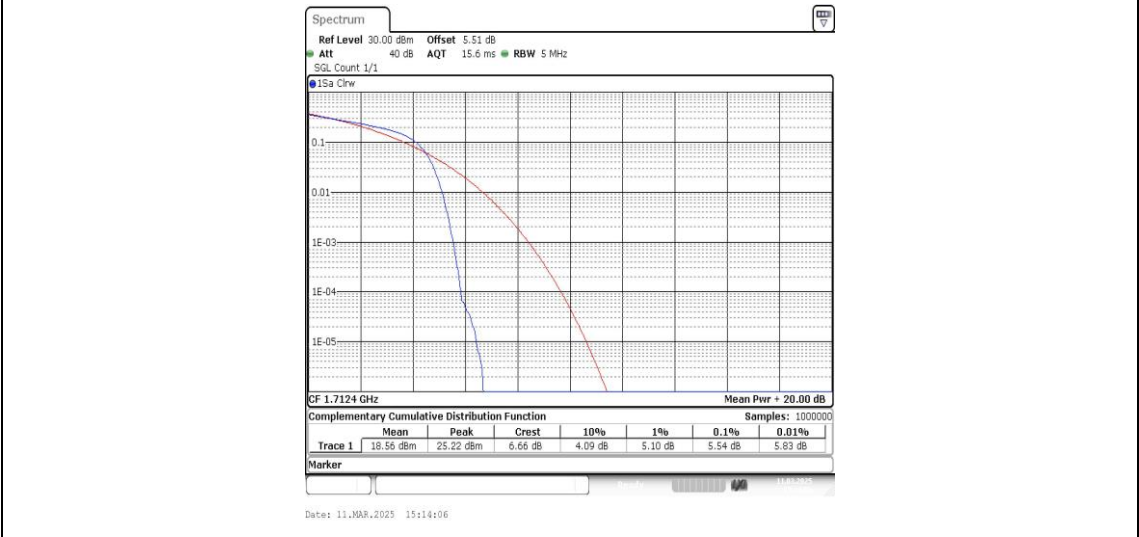
Band4-1513-3-PASS



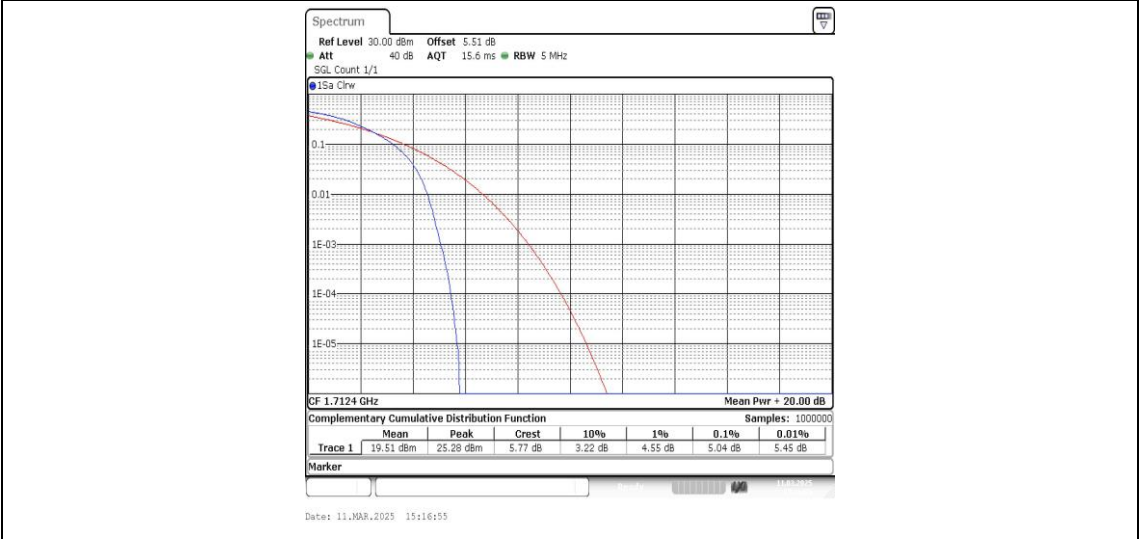
Band4-1513-4-PASS



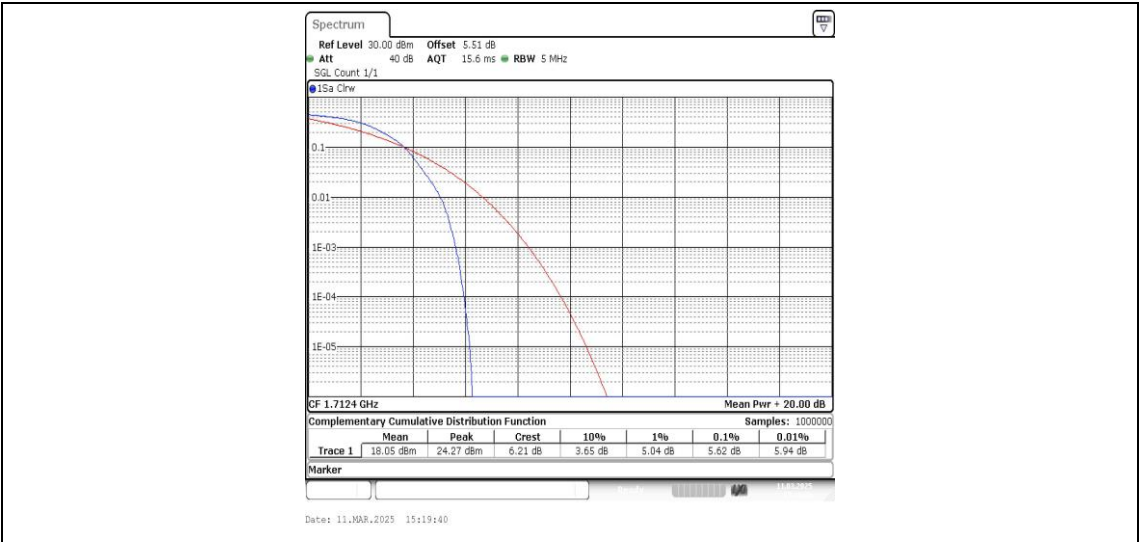
Band4-1312-1-PASS



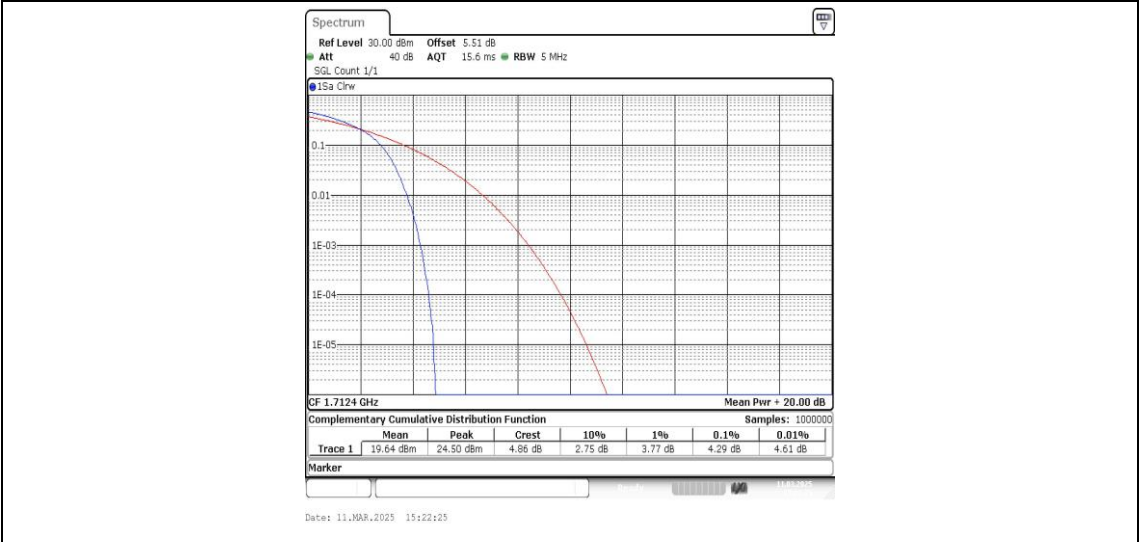
Band4-1312-2-PASS



Band4-1312-3-PASS



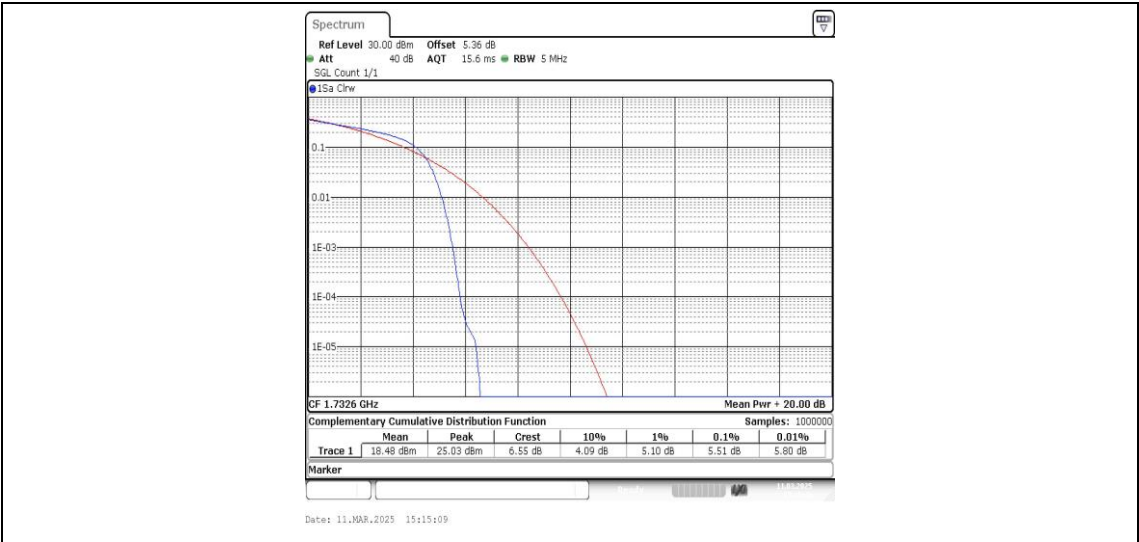
Band4-1312-4-PASS



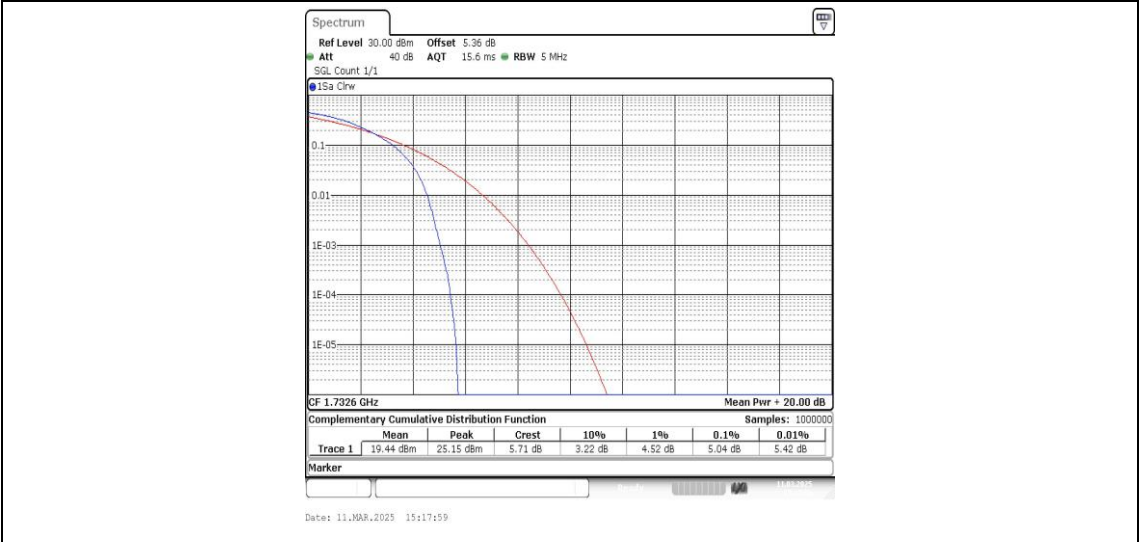
Band4-1312-5-PASS



Band4-1413-1-PASS



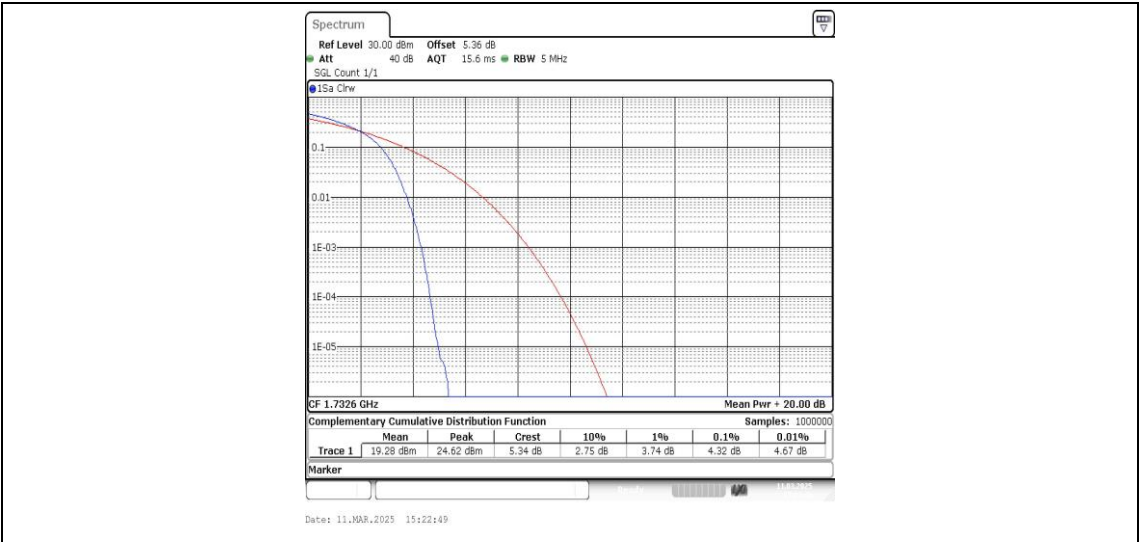
Band4-1413-2-PASS



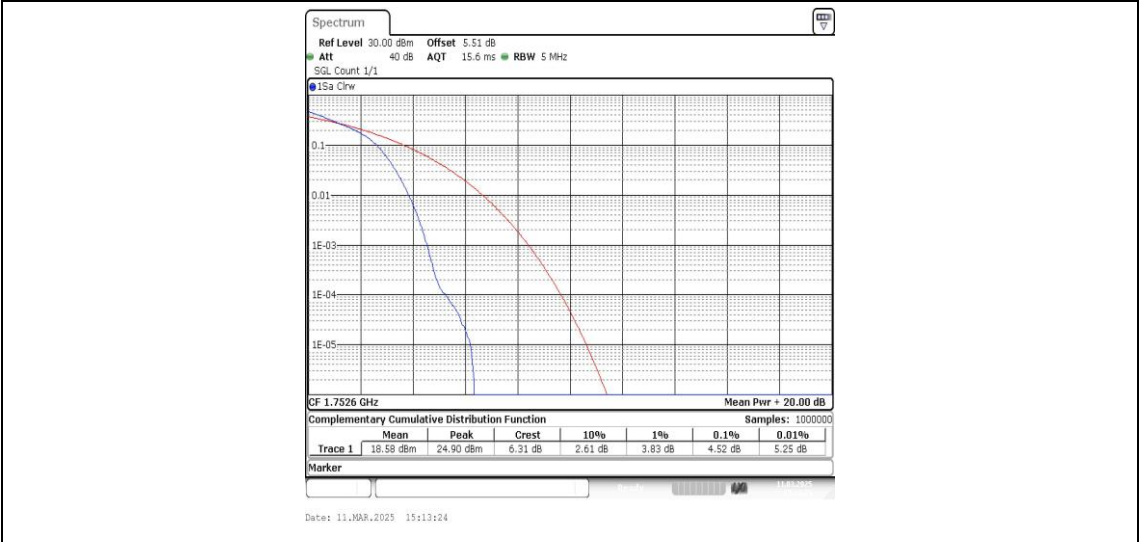
Band4-1413-3-PASS



Band4-1413-4-PASS



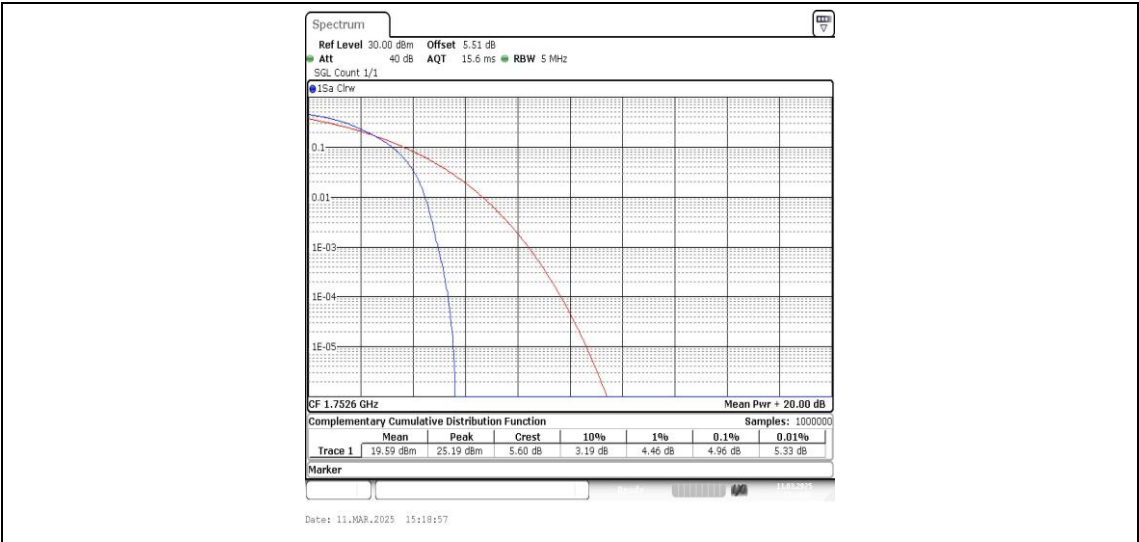
Band4-1413-5-PASS



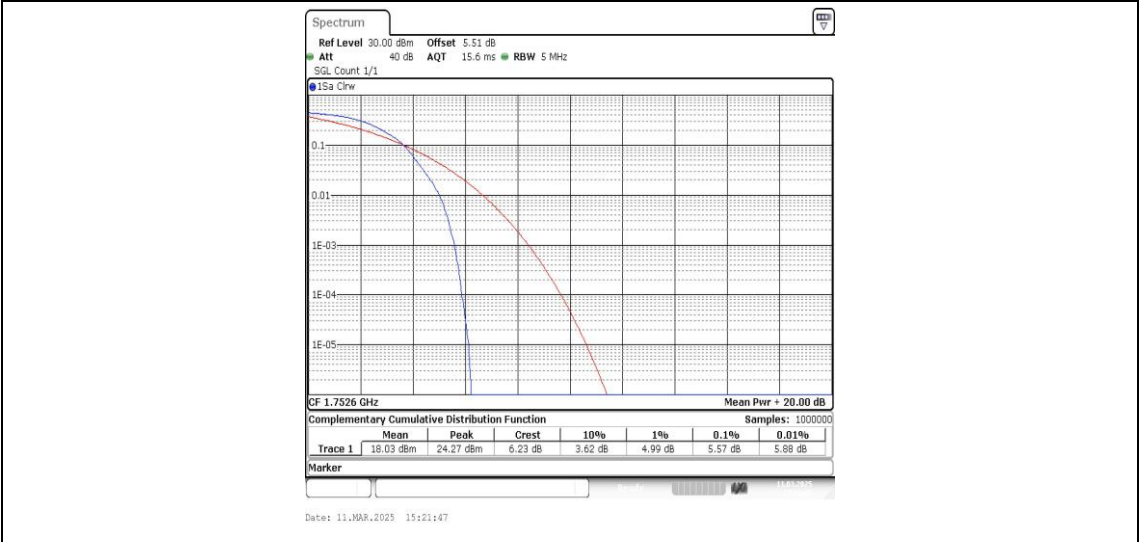
Band4-1513-1-PASS



Band4-1513-2-PASS



Band4-1513-3-PASS



Band4-1513-4-PASS



Band4-1513-5-PASS

AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result

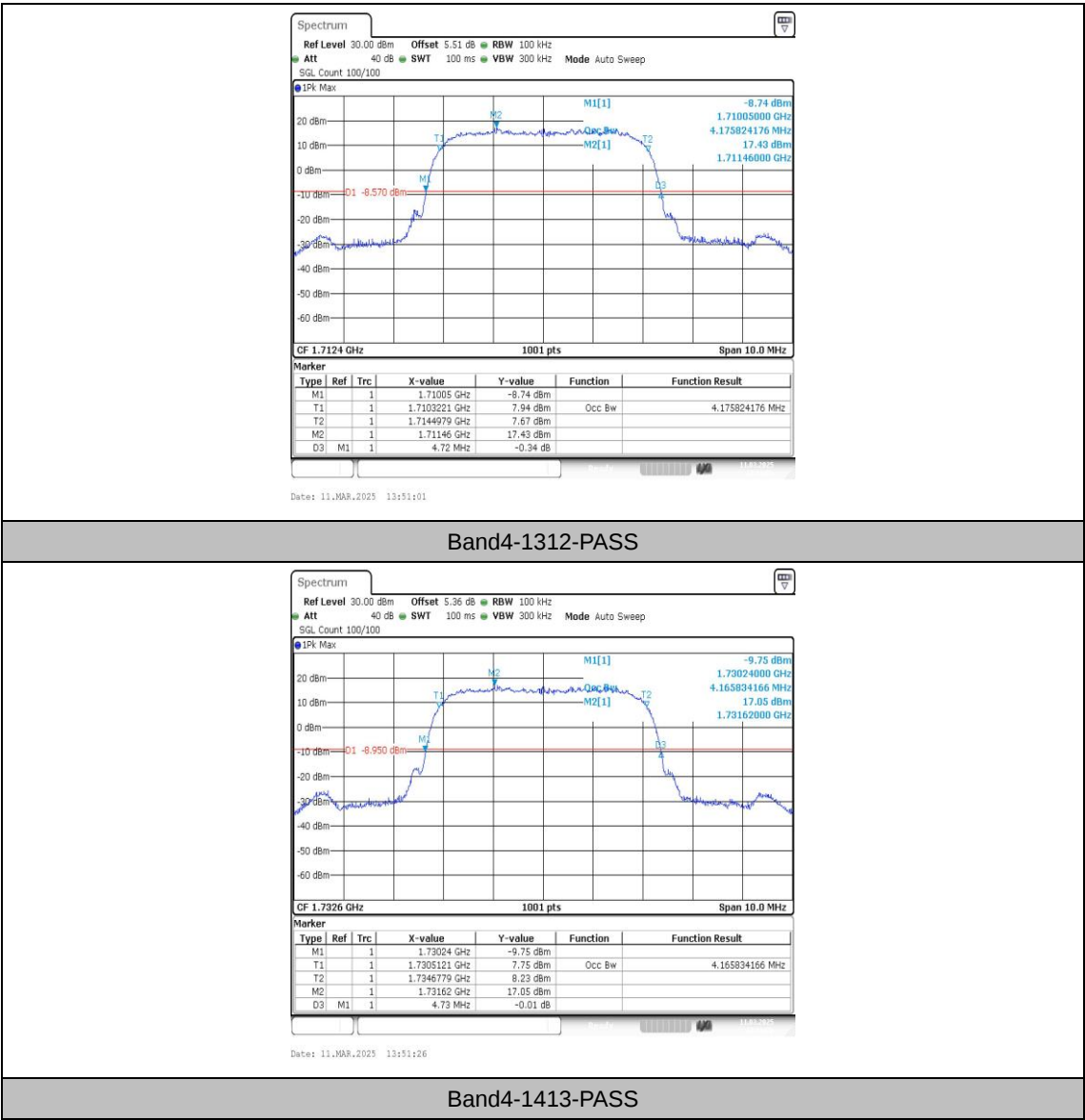
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.176	4.72	---	PASS
Band4	1413	4.166	4.73	---	PASS
Band4	1513	4.176	4.72	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.176	4.73	---	PASS
Band4	1312	2	4.166	4.72	---	PASS
Band4	1312	3	4.166	4.74	---	PASS
Band4	1312	4	4.166	4.72	---	PASS
Band4	1413	1	4.166	4.72	---	PASS
Band4	1413	2	4.166	4.72	---	PASS
Band4	1413	3	4.176	4.73	---	PASS
Band4	1413	4	4.176	4.72	---	PASS
Band4	1513	1	4.166	4.73	---	PASS
Band4	1513	2	4.176	4.74	---	PASS
Band4	1513	3	4.166	4.72	---	PASS
Band4	1513	4	4.176	4.73	---	PASS

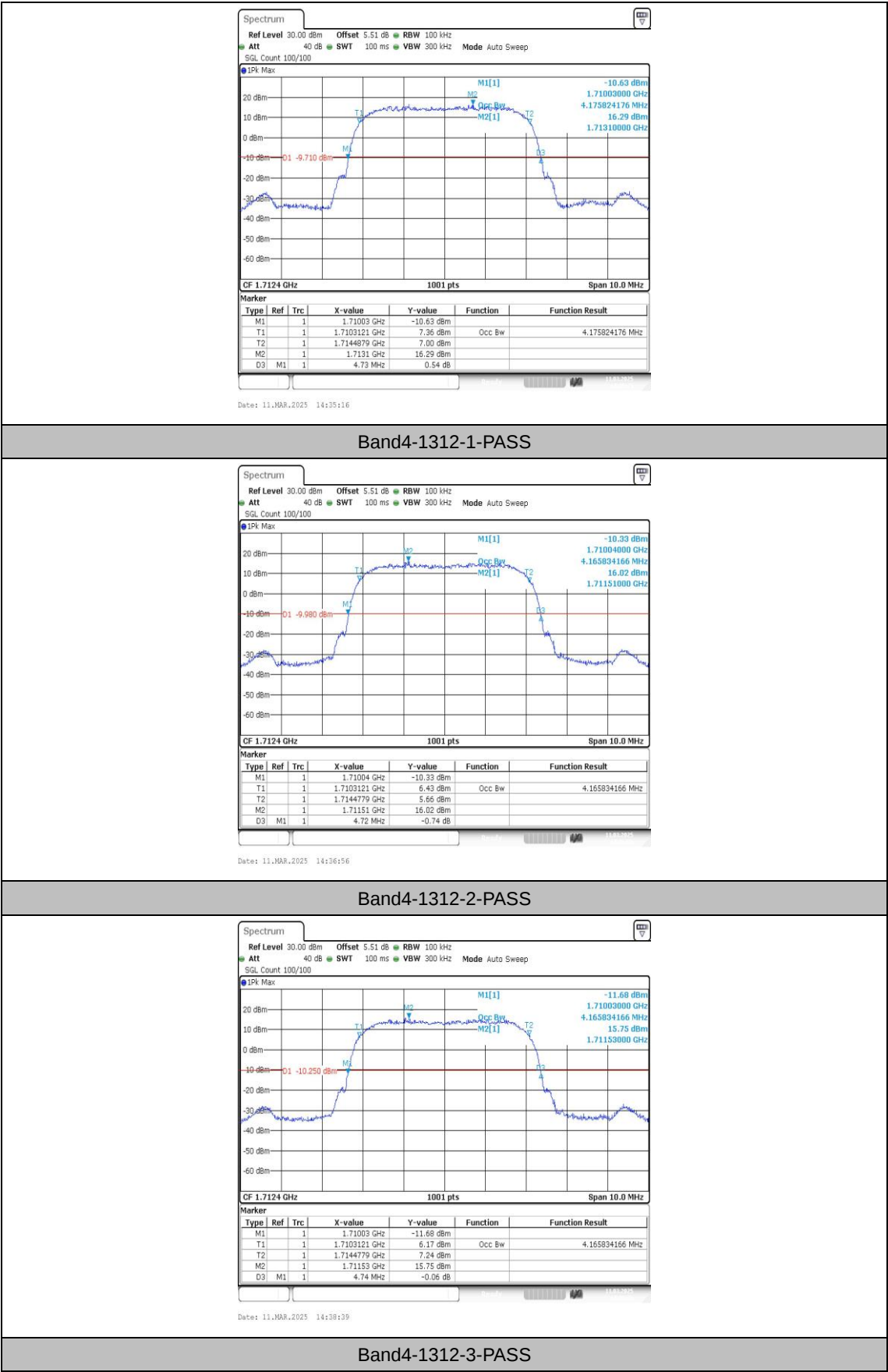
Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.186	4.73	---	PASS
Band4	1312	2	4.176	4.73	---	PASS
Band4	1312	3	4.196	4.74	---	PASS
Band4	1312	4	4.196	4.73	---	PASS
Band4	1312	5	4.176	4.72	---	PASS
Band4	1413	1	4.186	4.74	---	PASS
Band4	1413	2	4.186	4.73	---	PASS
Band4	1413	3	4.206	4.72	---	PASS
Band4	1413	4	4.186	4.73	---	PASS
Band4	1413	5	4.166	4.73	---	PASS

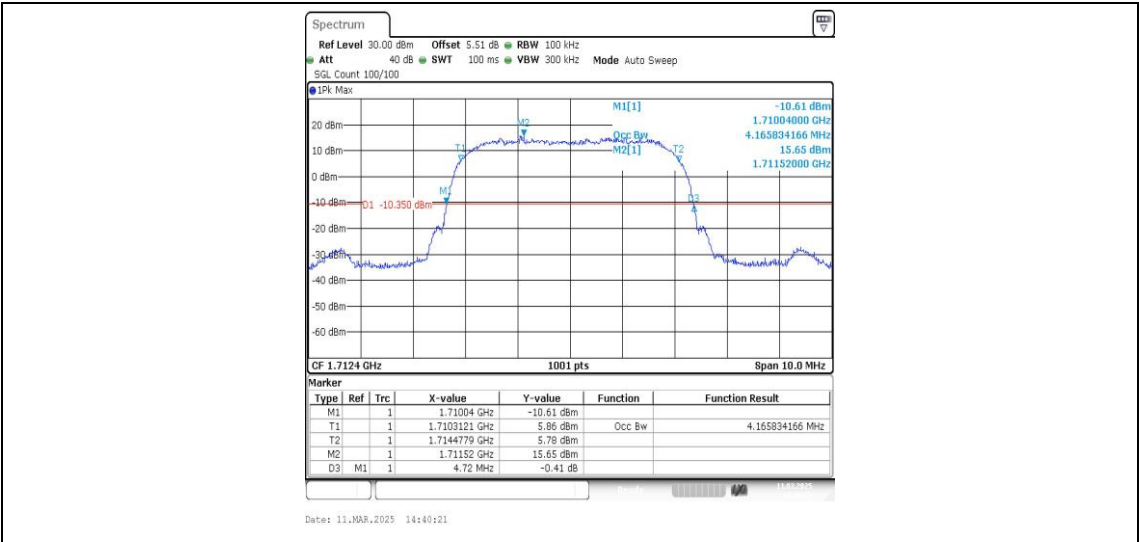
Band4	1513	1	4.196	4.72	---	PASS
Band4	1513	2	4.196	4.75	---	PASS
Band4	1513	3	4.196	4.73	---	PASS
Band4	1513	4	4.186	4.73	---	PASS
Band4	1513	5	4.166	4.73	---	PASS

Test Graphs

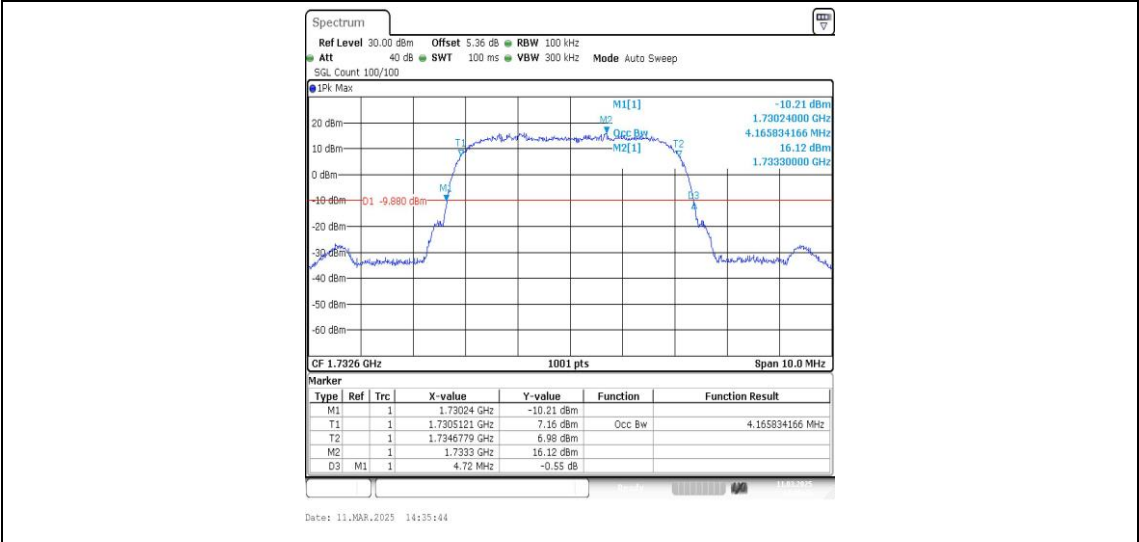




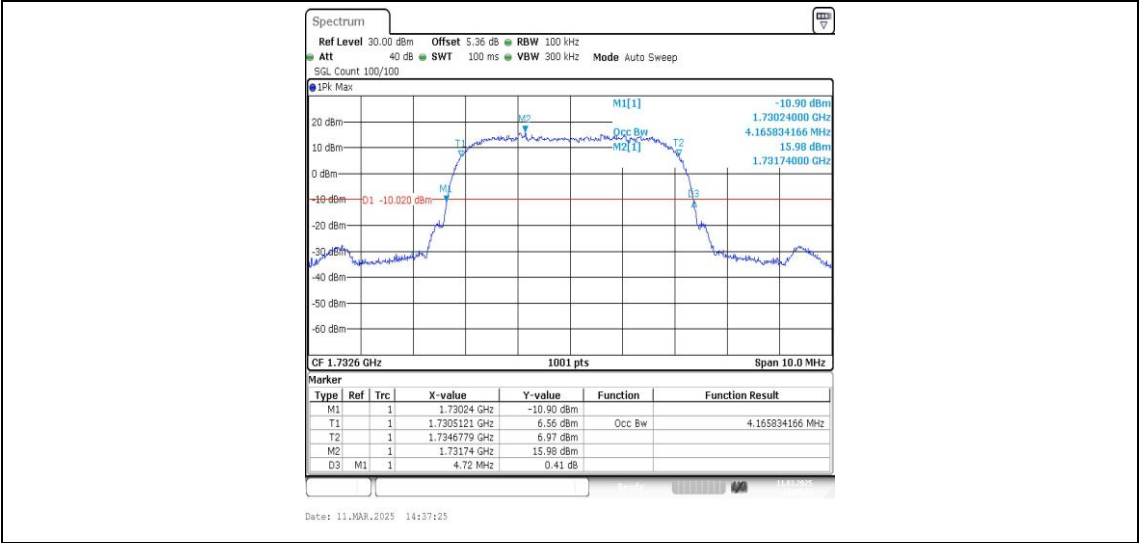




Band4-1312-4-PASS

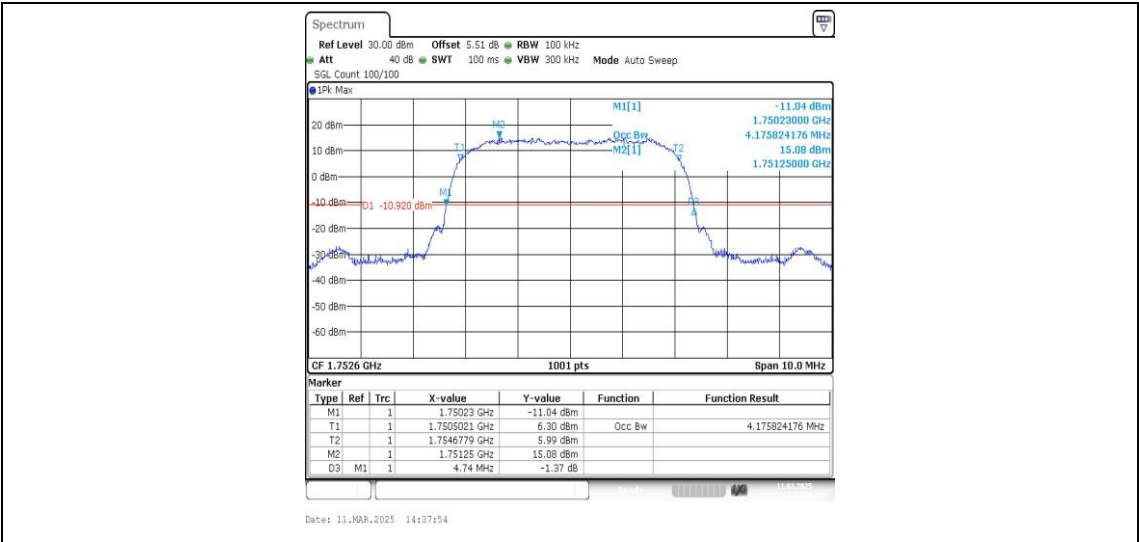


Band4-1413-1-PASS

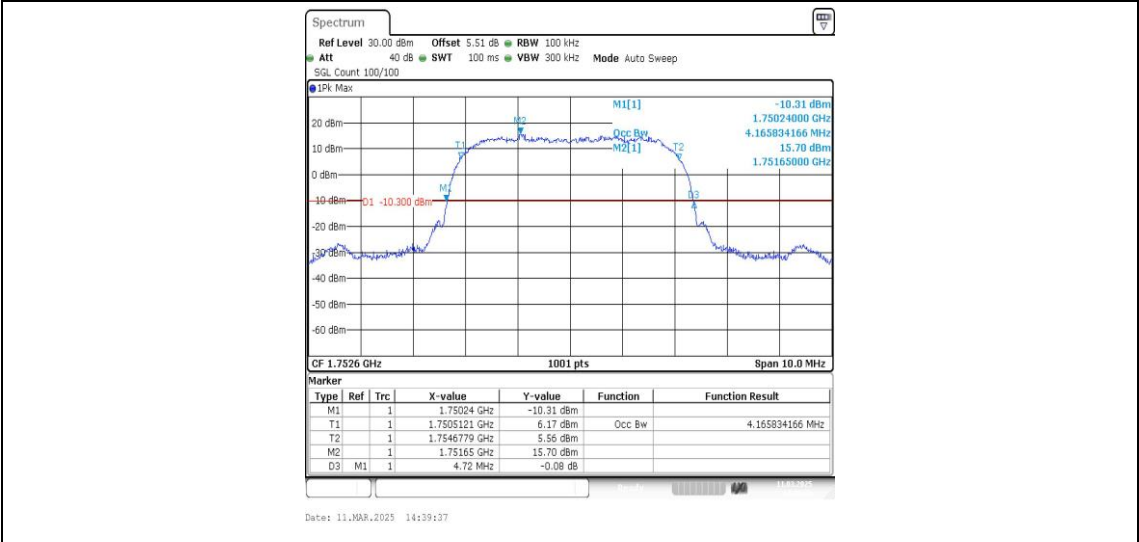


Band4-1413-2-PASS

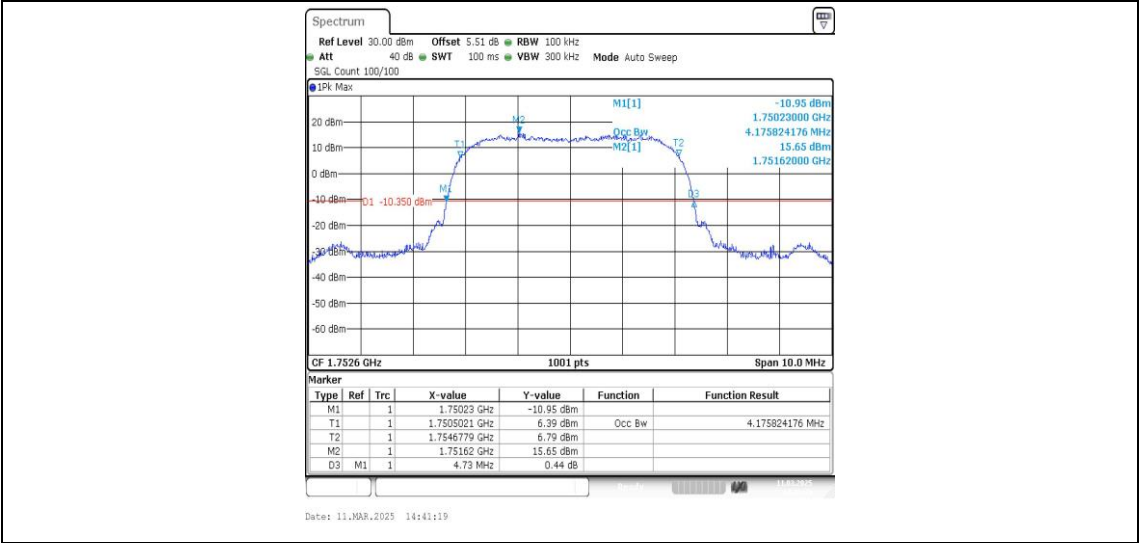




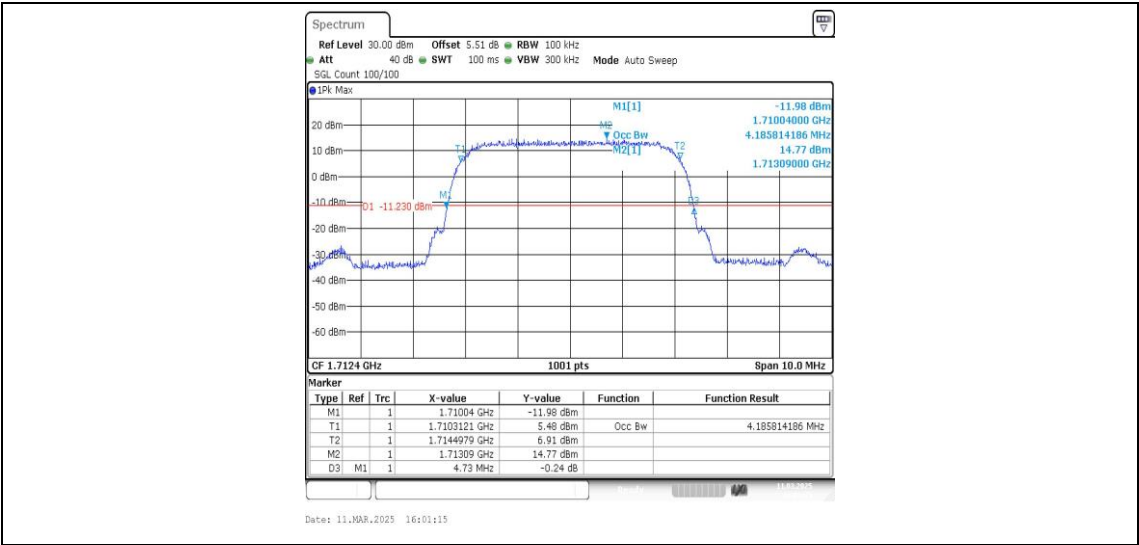
Band4-1513-2-PASS



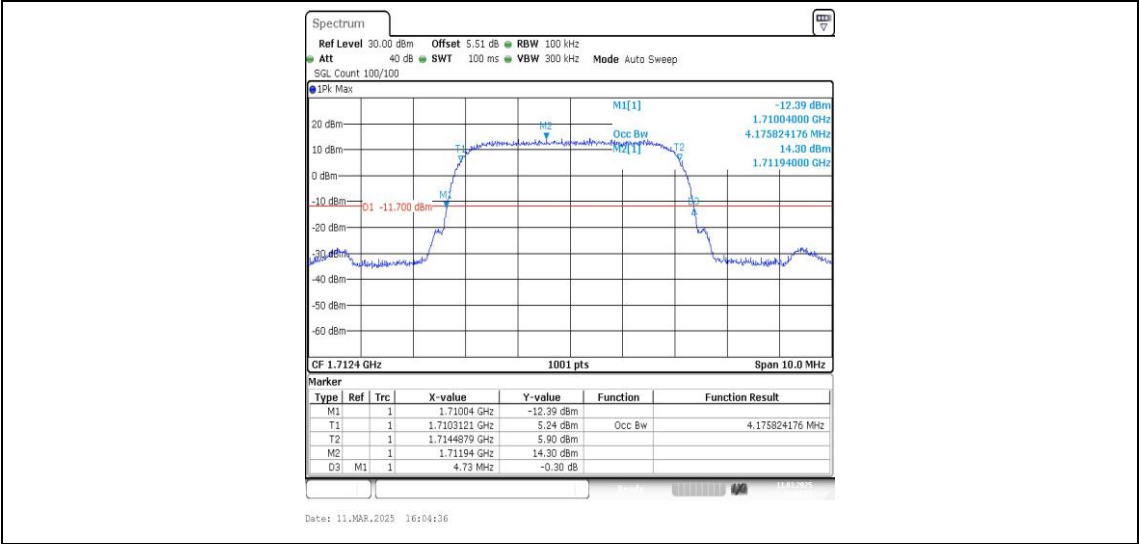
Band4-1513-3-PASS



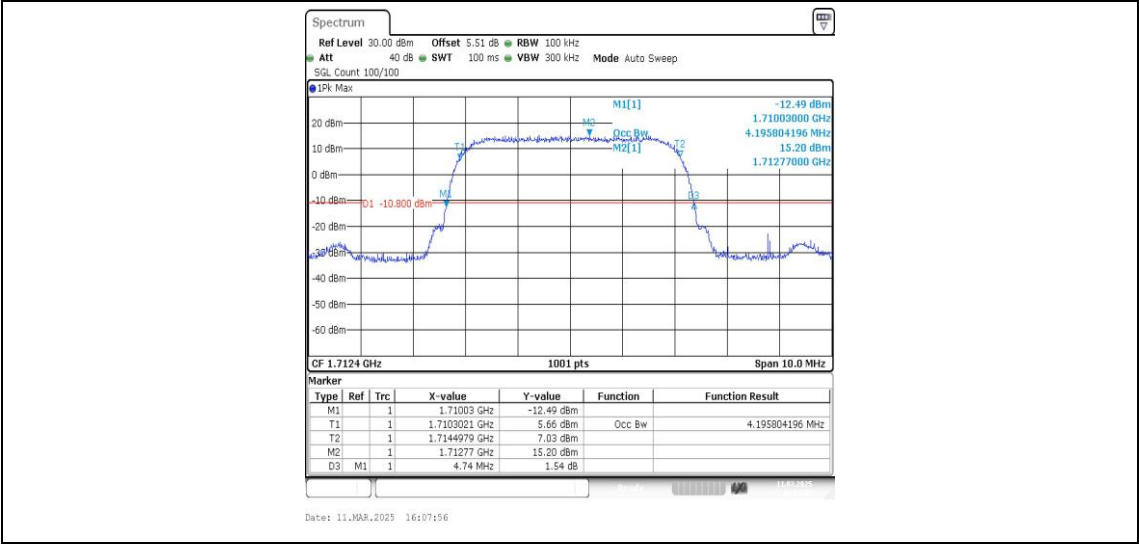
Band4-1513-4-PASS

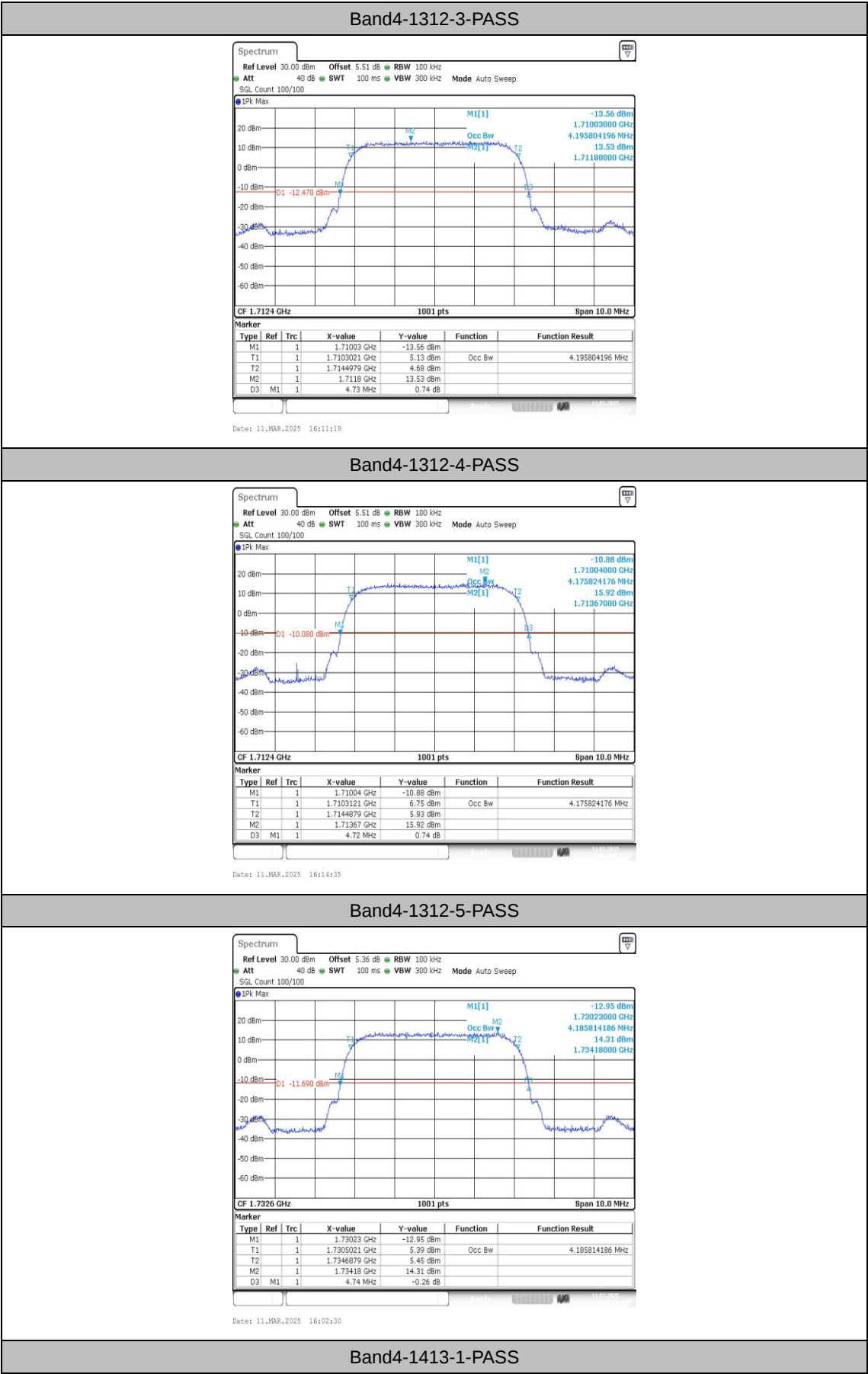


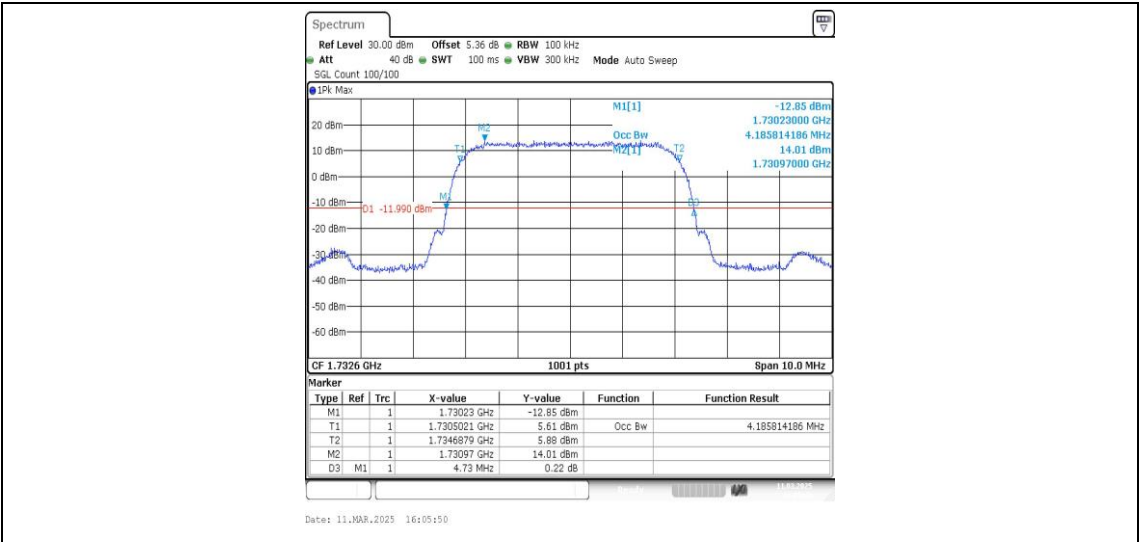
Band4-1312-1-PASS



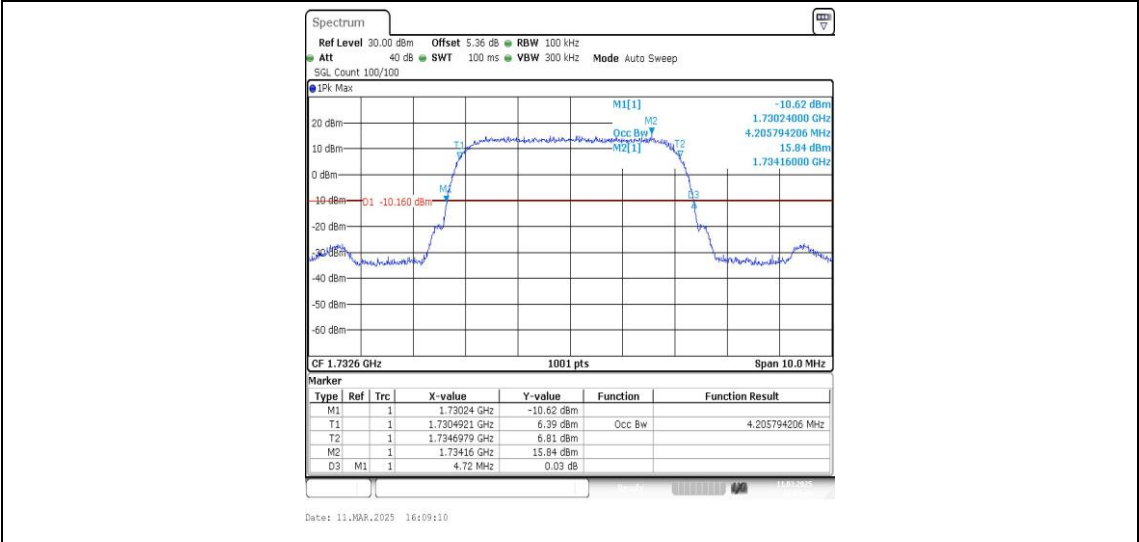
Band4-1312-2-PASS



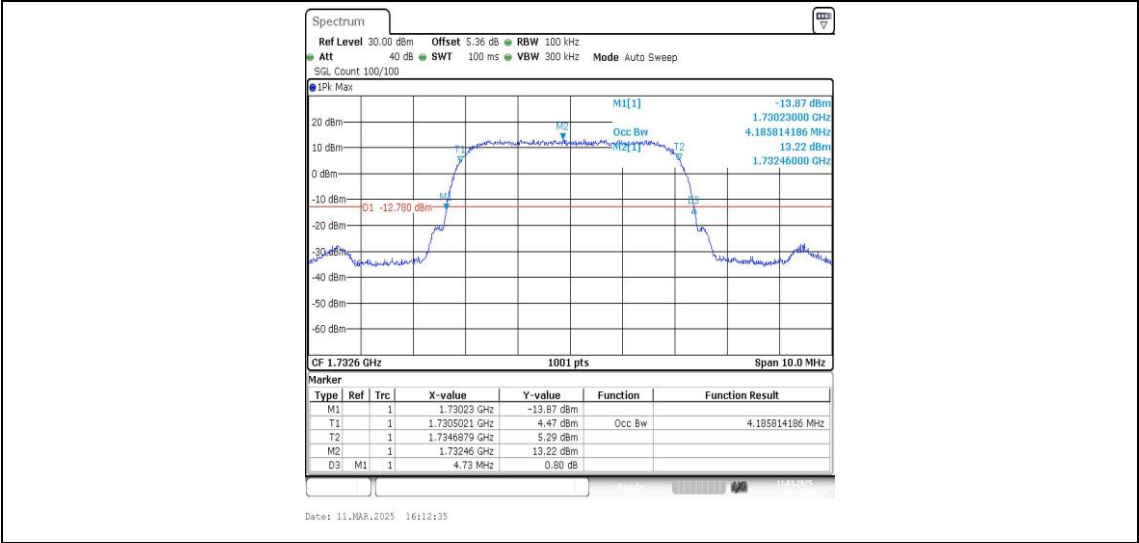




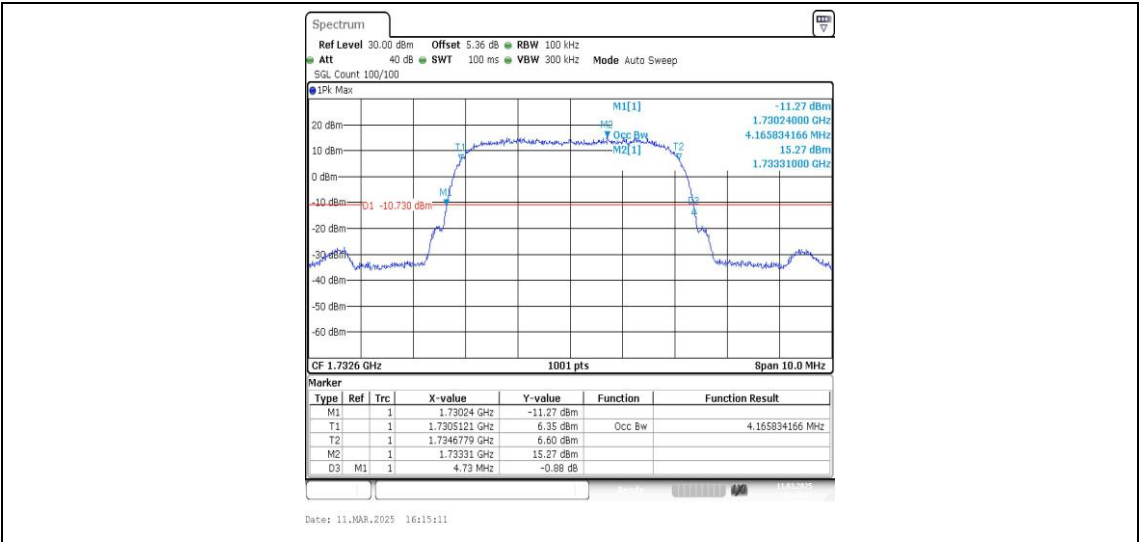
Band4-1413-2-PASS



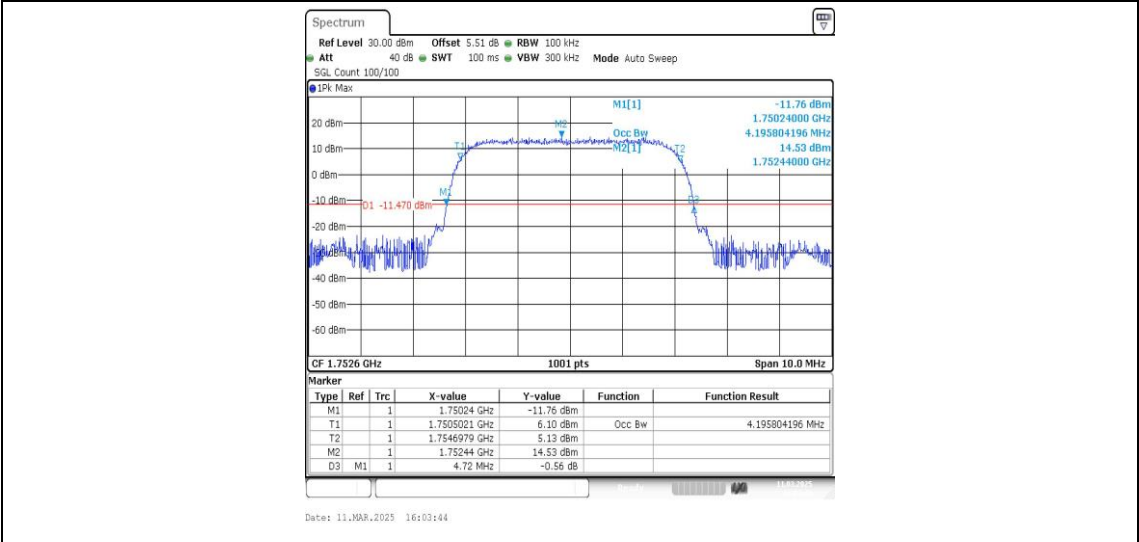
Band4-1413-3-PASS



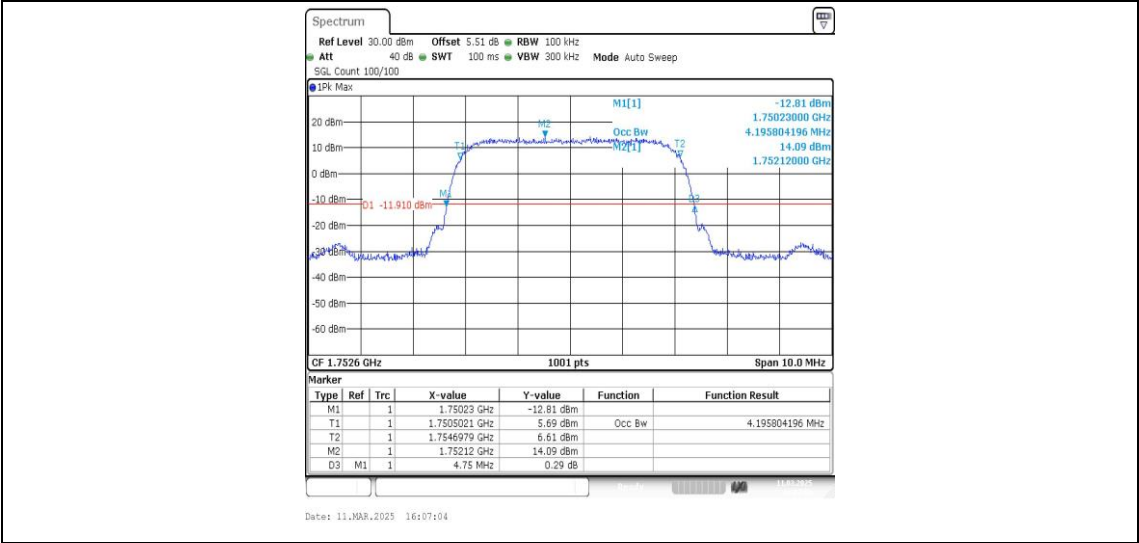
Band4-1413-4-PASS



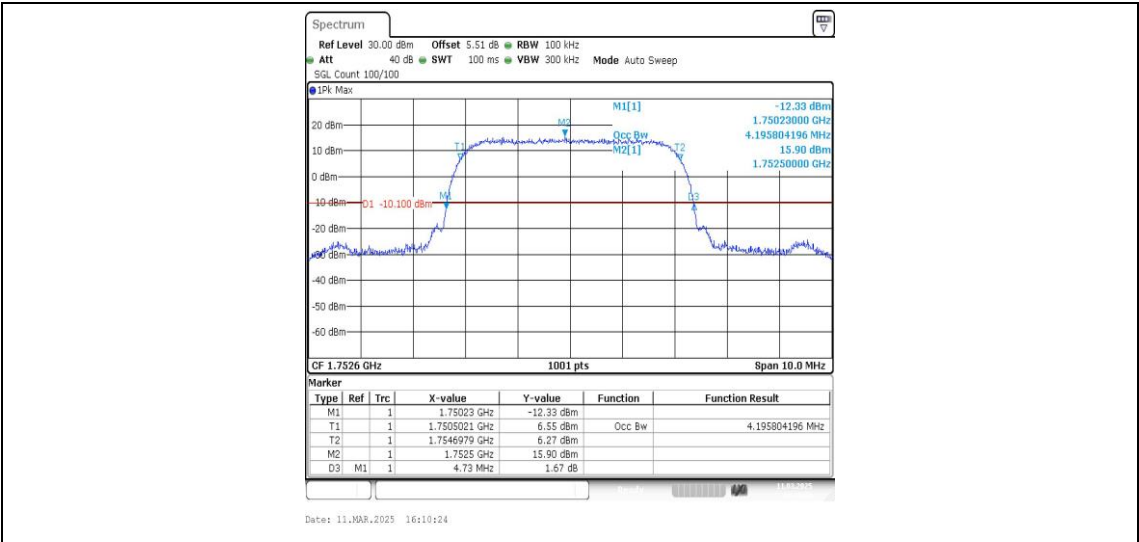
Band4-1413-5-PASS



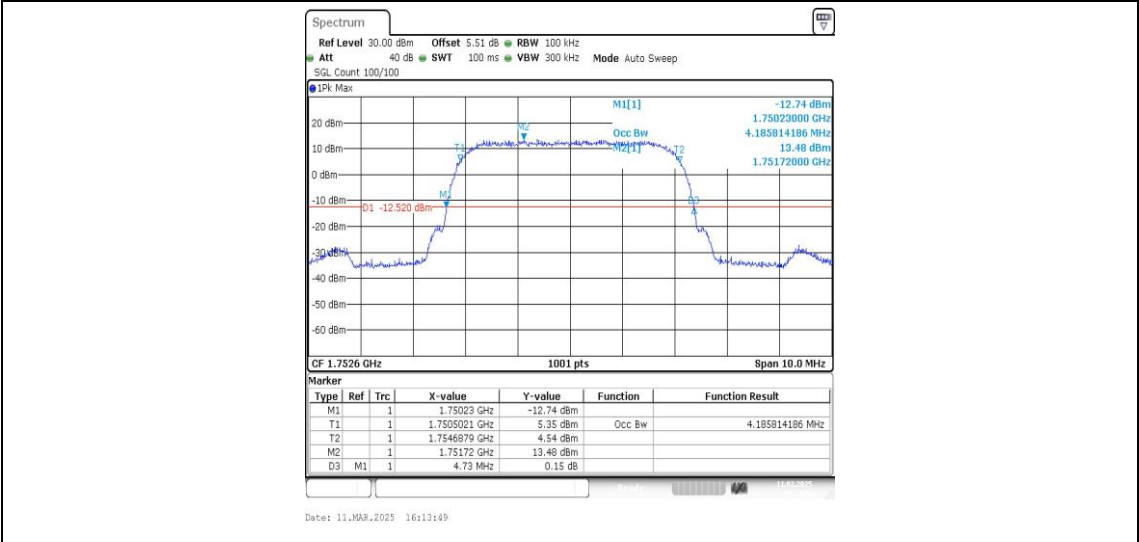
Band4-1513-1-PASS



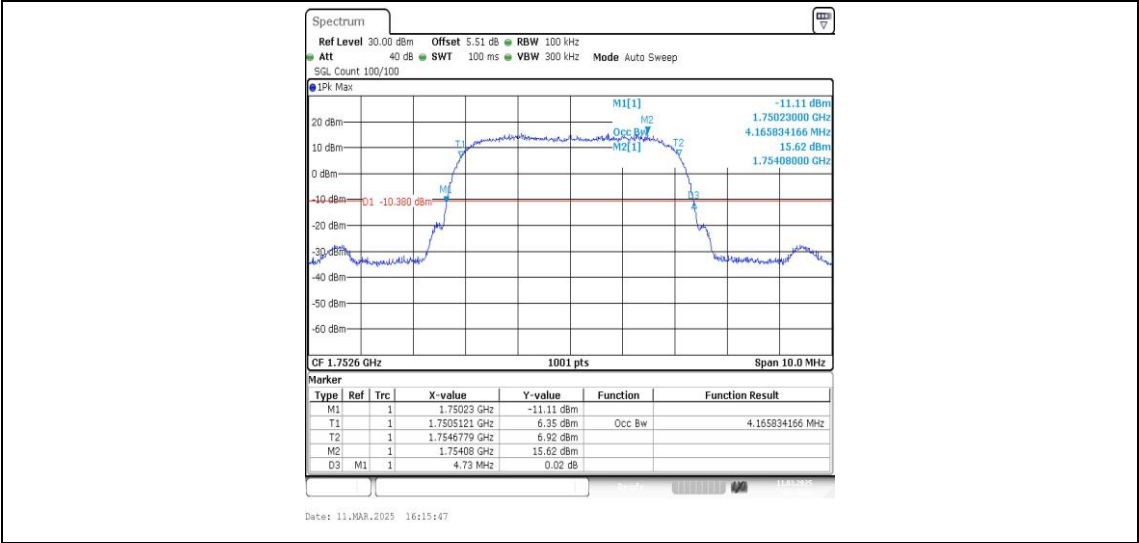
Band4-1513-2-PASS



Band4-1513-3-PASS



Band4-1513-4-PASS



Band4-1513-5-PASS

AppendixD:Band Edge

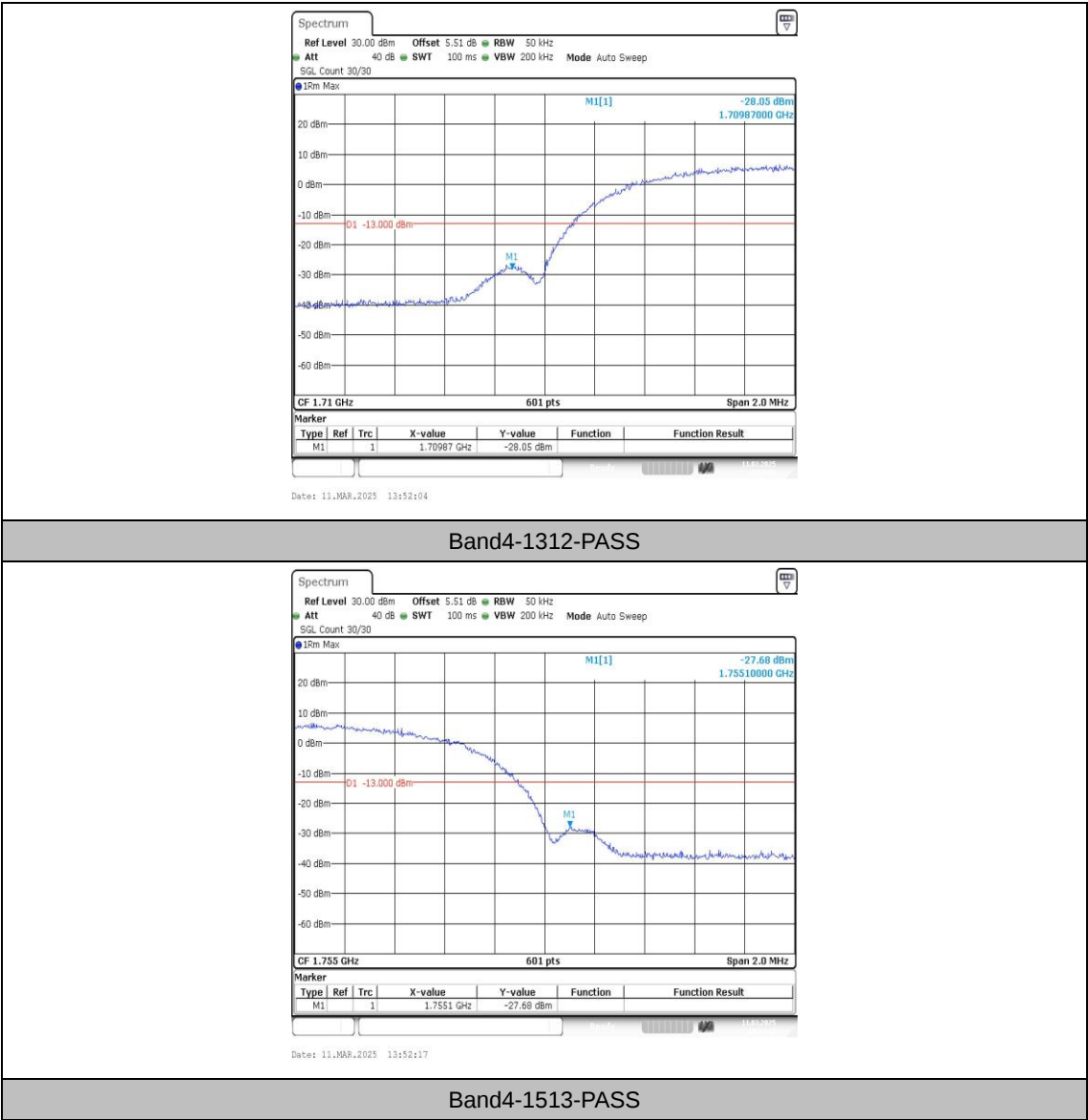
Test Result

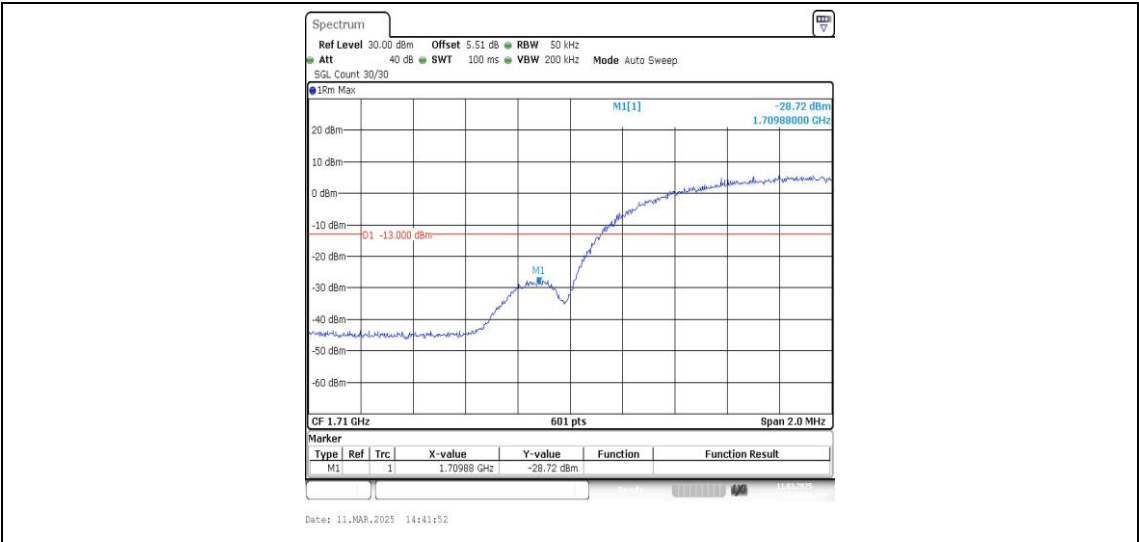
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.87	-26.55	-13	PASS
Band4	1513	1755.10	-27.68	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1709.88	-27.44	-13	PASS
Band4	1312	2	1709.85	-28.53	-13	PASS
Band4	1312	3	1709.87	-28.98	-13	PASS
Band4	1312	4	1709.84	-29.02	-13	PASS
Band4	1513	1	1755.12	-27.94	-13	PASS
Band4	1513	2	1755.11	-28.06	-13	PASS
Band4	1513	3	1755.13	-27.64	-13	PASS
Band4	1513	4	1755.12	-27.72	-13	PASS

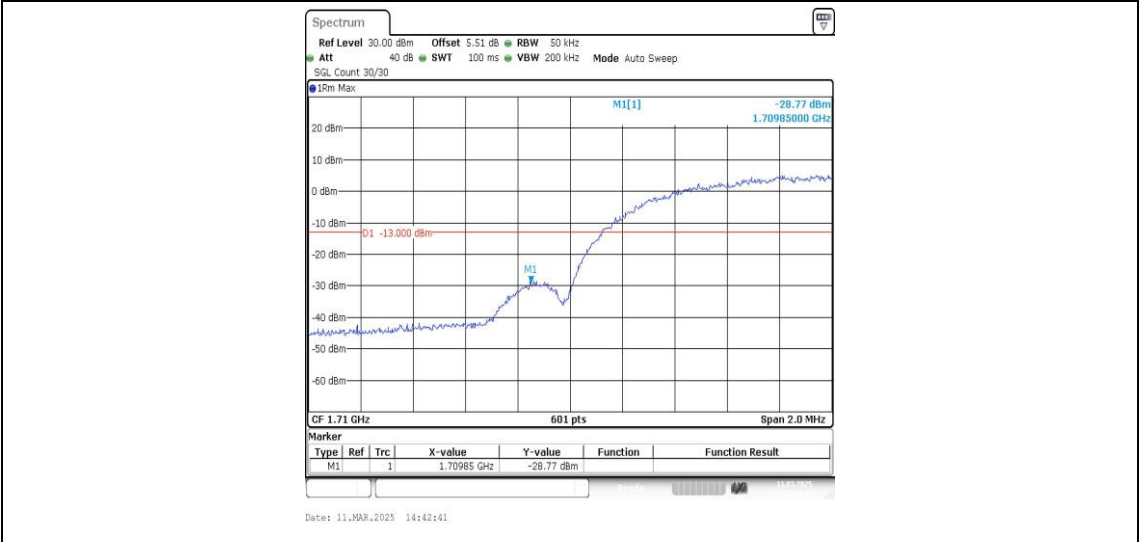
Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1709.85	-28.95	-13	PASS
Band4	1312	2	1709.86	-29.01	-13	PASS
Band4	1312	3	1709.88	-28.19	-13	PASS
Band4	1312	4	1709.88	-29.36	-13	PASS
Band4	1312	5	1709.85	-28.40	-13	PASS
Band4	1513	1	1755.12	-28.89	-13	PASS
Band4	1513	2	1755.13	-29.22	-13	PASS
Band4	1513	3	1755.12	-27.60	-13	PASS
Band4	1513	4	1755.14	-28.93	-13	PASS
Band4	1513	5	1755.14	-28.62	-13	PASS

Test Graphs

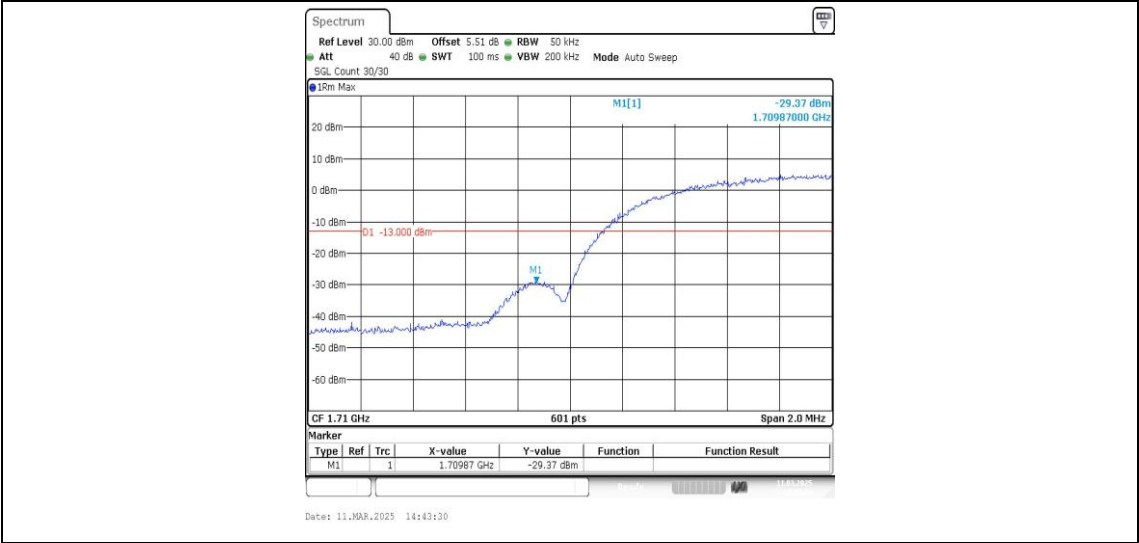




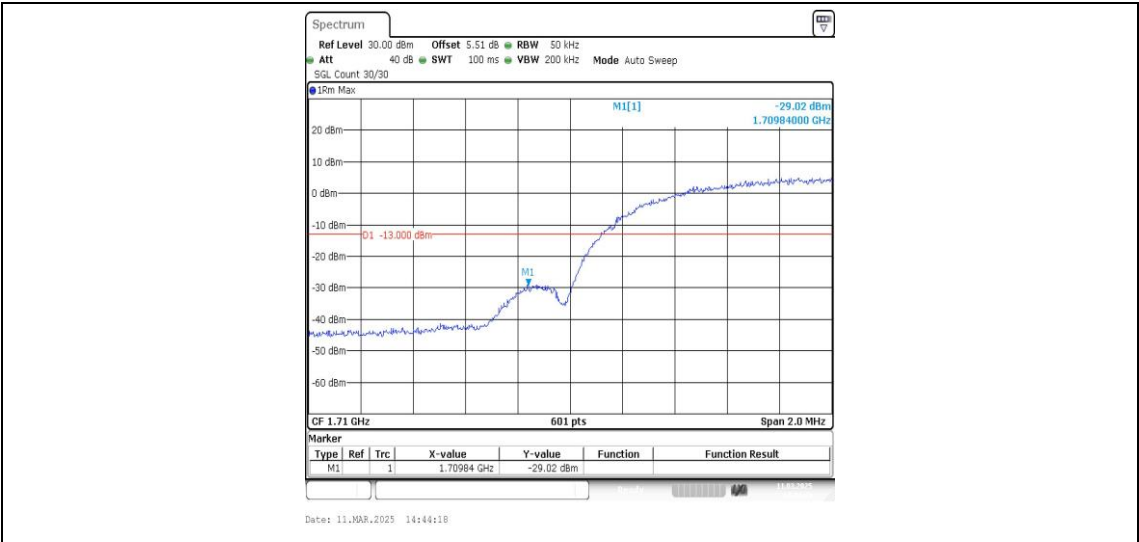
Band4-1312-1-PASS



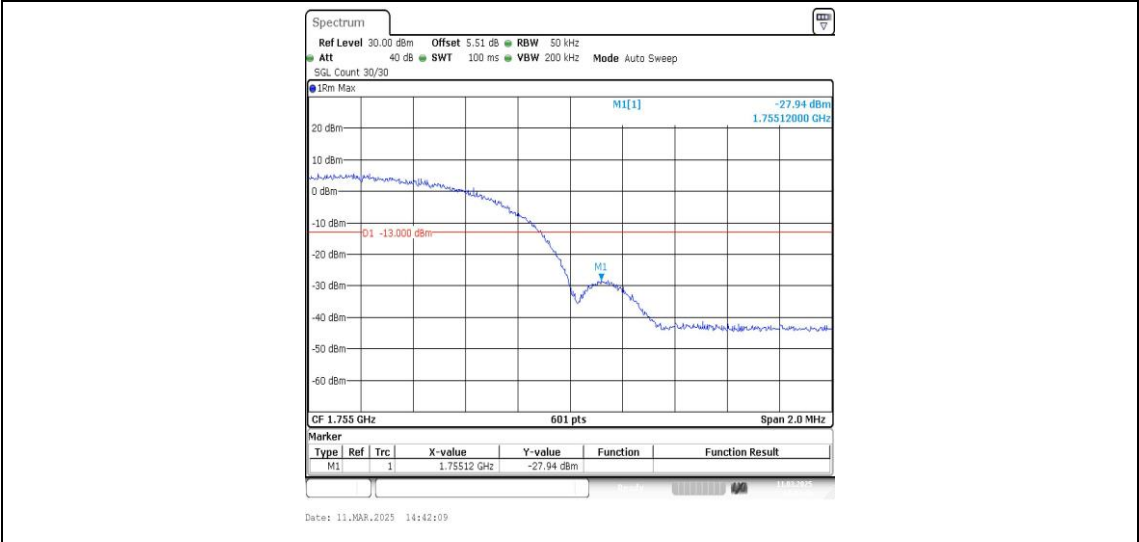
Band4-1312-2-PASS



Band4-1312-3-PASS



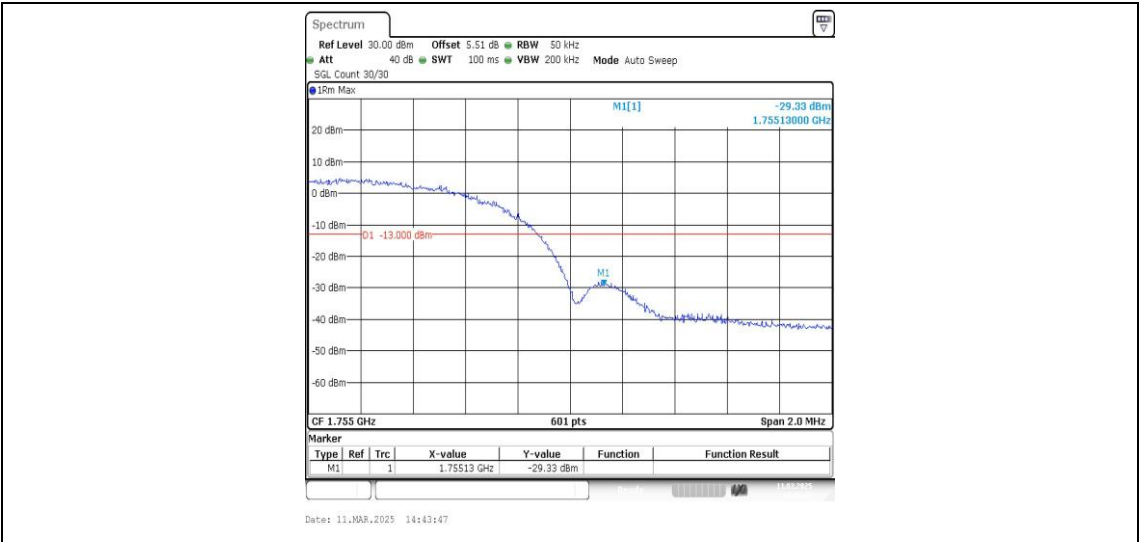
Band4-1312-4-PASS



Band4-1513-1-PASS



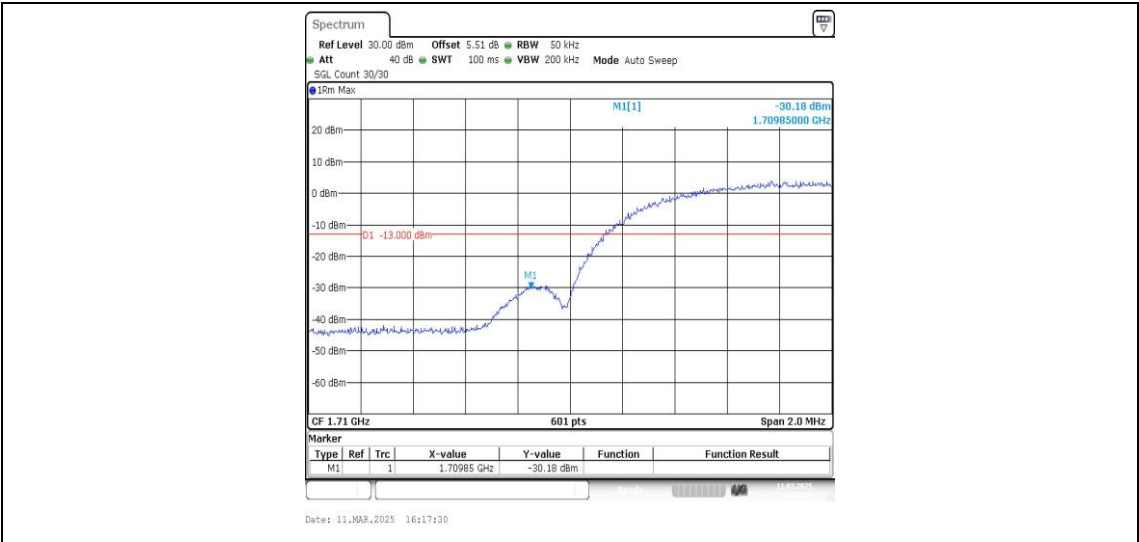
Band4-1513-2-PASS



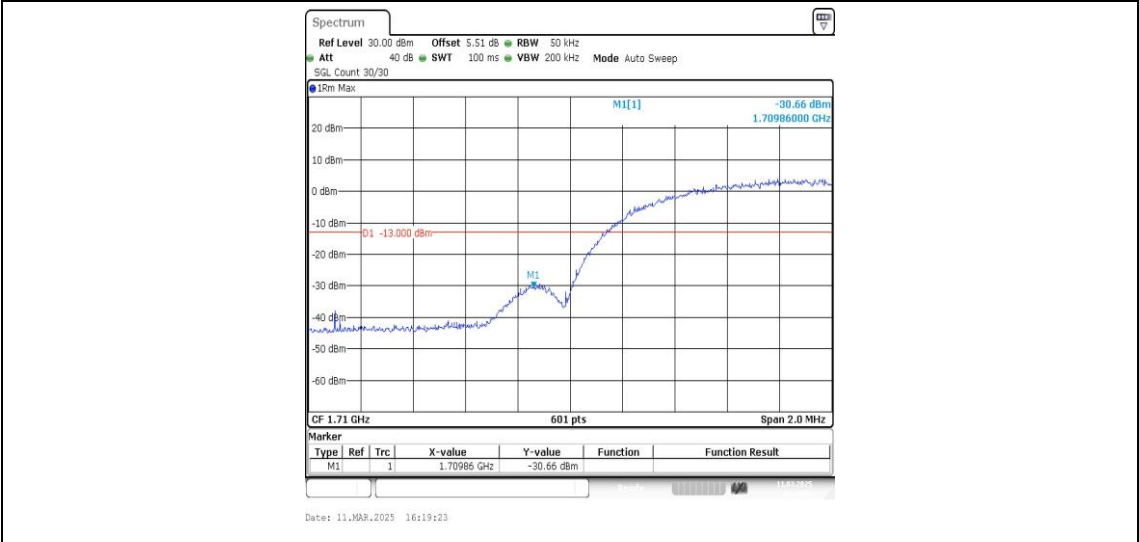
Band4-1513-3-PASS



Band4-1513-4-PASS



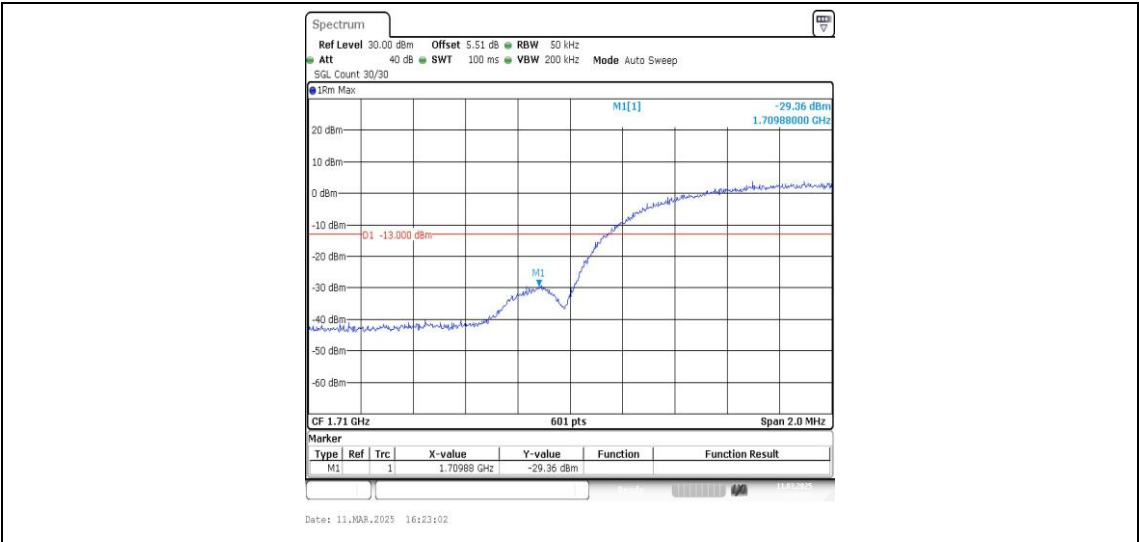
Band4-1312-1-PASS



Band4-1312-2-PASS



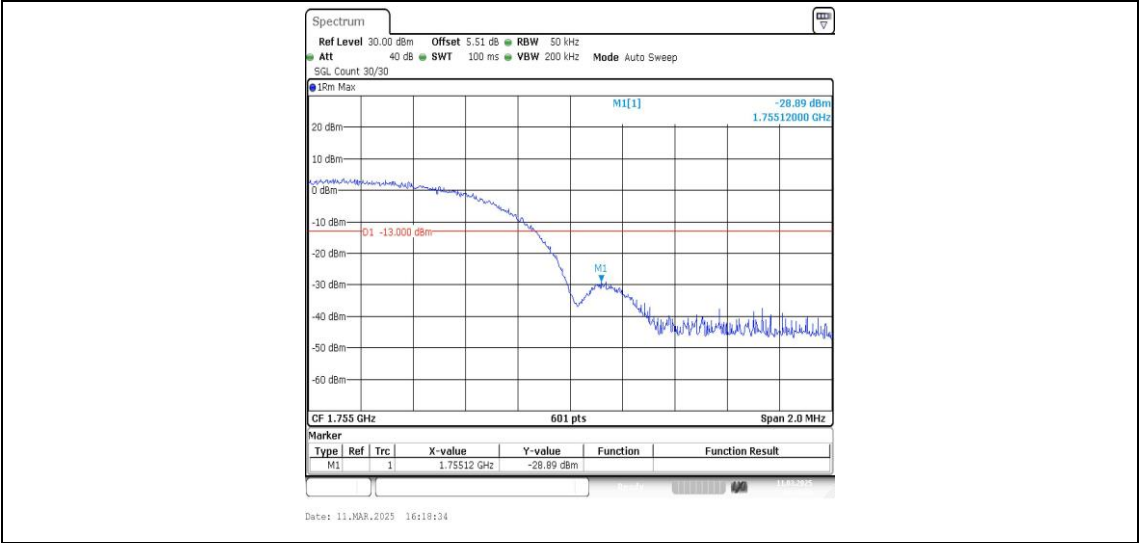
Band4-1312-3-PASS



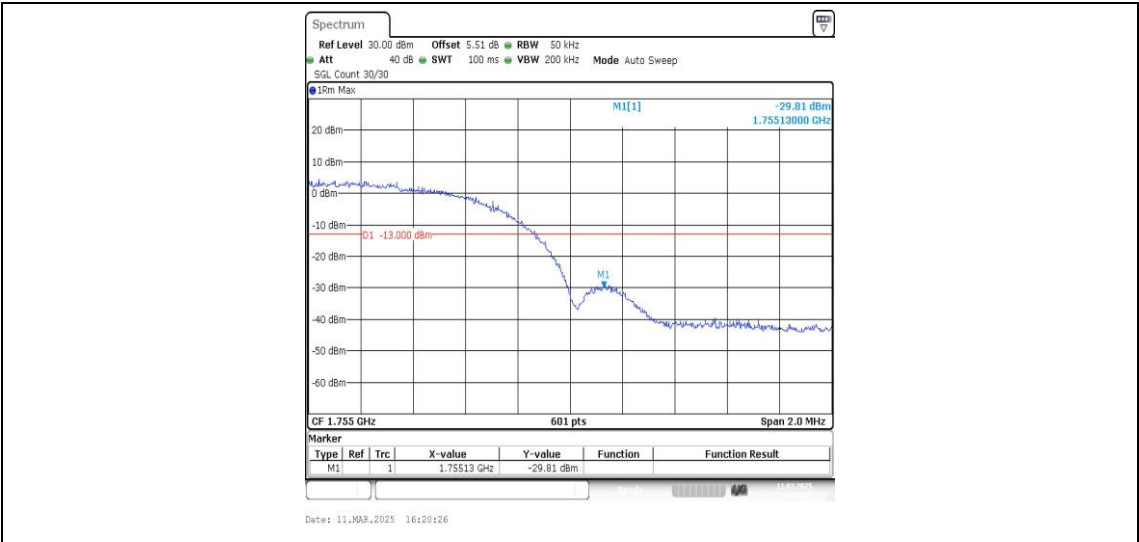
Band4-1312-4-PASS



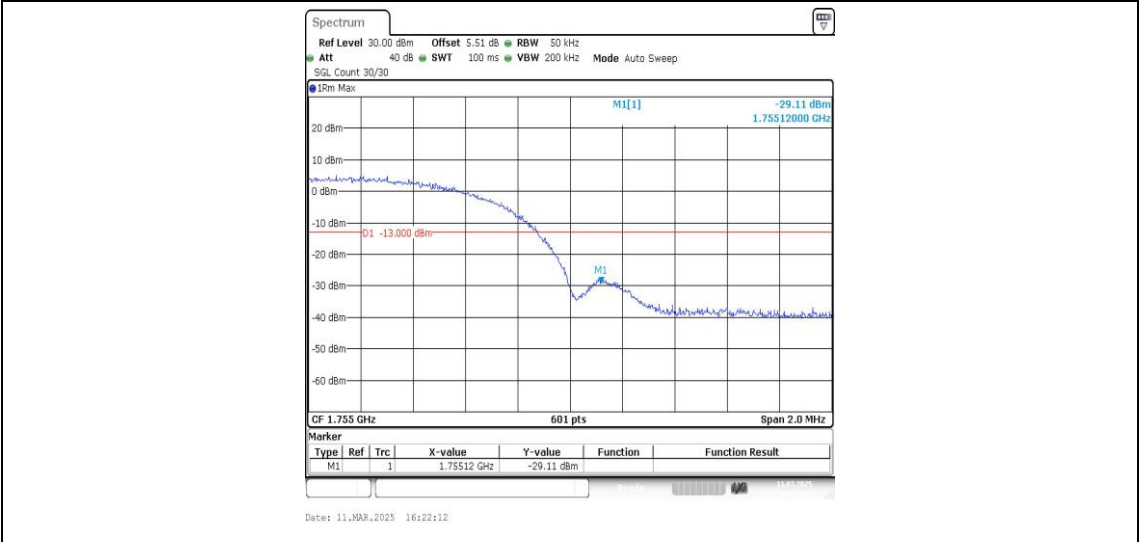
Band4-1312-5-PASS



Band4-1513-1-PASS



Band4-1513-2-PASS



Band4-1513-3-PASS



Band4-1513-4-PASS



AppendixE:Conducted SpuriousEmission

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.01	-76.47	-43	PASS
Band4	1312	0.15~30MHz	22.68	-70.61	-33	PASS
Band4	1312	30~1000MHz	991.03	-50.71	-13	PASS
Band4	1312	1000~20000MHz	6899.5	-41.36	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-76.57	-43	PASS
Band4	1413	0.15~30MHz	29.18	-70.58	-33	PASS
Band4	1413	30~1000MHz	996.85	-50.7	-13	PASS
Band4	1413	1000~20000MHz	6890	-41.5	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-76.88	-43	PASS
Band4	1513	0.15~30MHz	25.21	-70.17	-33	PASS
Band4	1513	30~1000MHz	996.85	-50.8	-13	PASS
Band4	1513	1000~20000MHz	6823.5	-41.32	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.009~0.15MHz	0.01	-76.8	-43	PASS
Band4	1312	1	0.15~30MHz	25.78	-70.98	-33	PASS
Band4	1312	1	30~1000MHz	985.7	-50.78	-13	PASS
Band4	1312	1	1000~20000MHz	6823.5	-41.48	-13	PASS
Band4	1312	2	0.009~0.15MHz	0.01	-76.75	-43	PASS
Band4	1312	2	0.15~30MHz	27.3	-70.53	-33	PASS
Band4	1312	2	30~1000MHz	970.19	-50.86	-13	PASS
Band4	1312	2	1000~20000MHz	6899.5	-41.39	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.01	-76.39	-43	PASS
Band4	1312	3	0.15~30MHz	26.11	-70.72	-33	PASS
Band4	1312	3	30~1000MHz	982.79	-50.73	-13	PASS
Band4	1312	3	1000~20000MHz	6842.5	-41.37	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.01	-76.57	-43	PASS
Band4	1312	4	0.15~30MHz	26.74	-70.34	-33	PASS
Band4	1312	4	30~1000MHz	991.03	-50.78	-13	PASS
Band4	1312	4	1000~20000MHz	6814	-41.45	-13	PASS
Band4	1413	1	0.009~0.15MHz	0.01	-76.7	-43	PASS
Band4	1413	1	0.15~30MHz	26.29	-70.74	-33	PASS
Band4	1413	1	30~1000MHz	964.37	-50.81	-13	PASS
Band4	1413	1	1000~20000MHz	6842.5	-41.16	-13	PASS
Band4	1413	2	0.009~0.15MHz	0.01	-76.44	-43	PASS

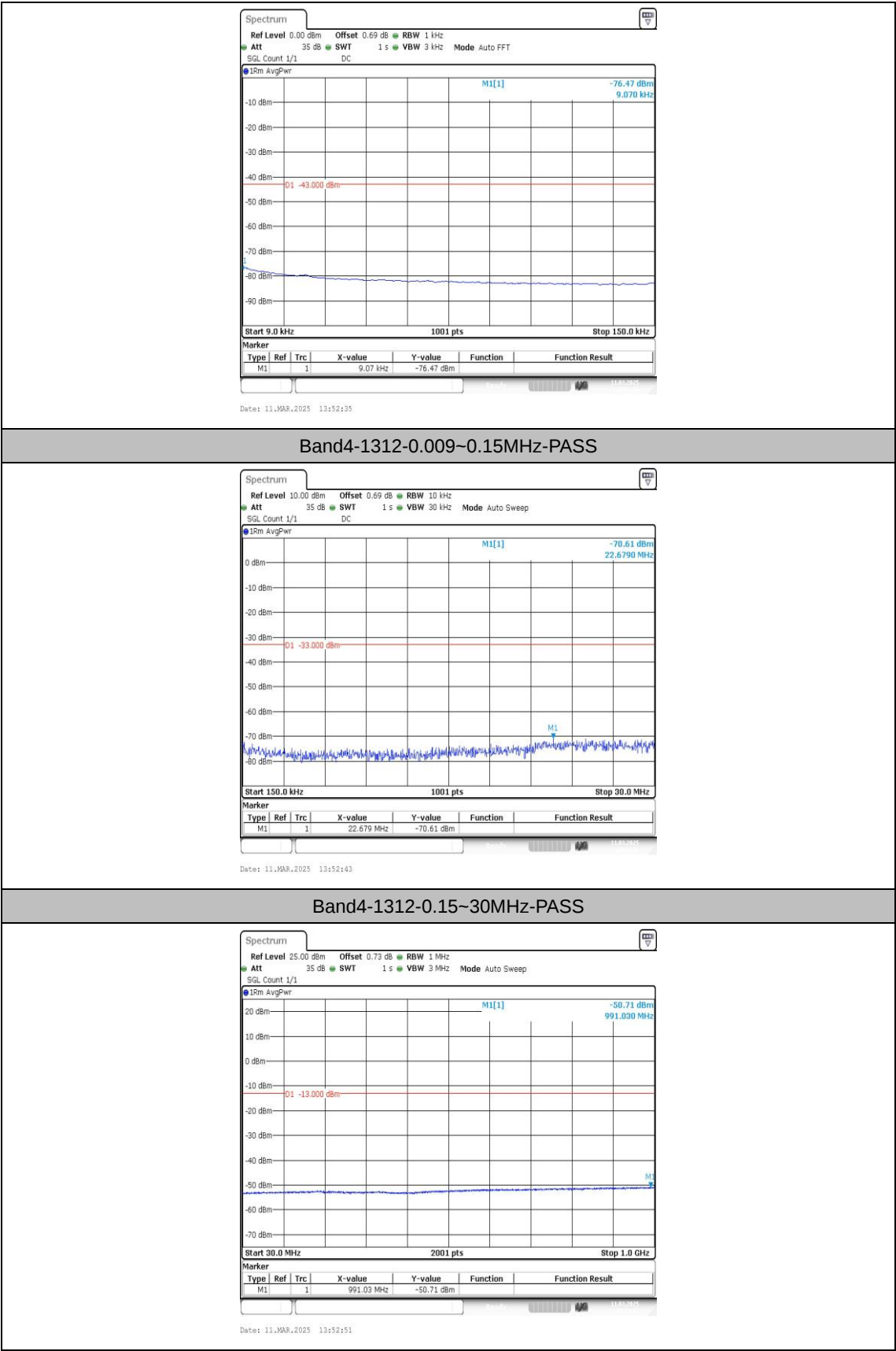
Band4	1413	2	0.15~30MHz	22.29	-71.1	-33	PASS
Band4	1413	2	30~1000MHz	988.12	-50.75	-13	PASS
Band4	1413	2	1000~20000MHz	6519.5	-41.43	-13	PASS
Band4	1413	3	0.009~0.15MHz	0.01	-76.55	-43	PASS
Band4	1413	3	0.15~30MHz	23.34	-70.49	-33	PASS
Band4	1413	3	30~1000MHz	993.94	-50.77	-13	PASS
Band4	1413	3	1000~20000MHz	6510	-41.29	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.01	-76.46	-43	PASS
Band4	1413	4	0.15~30MHz	22.47	-70.98	-33	PASS
Band4	1413	4	30~1000MHz	993.46	-50.81	-13	PASS
Band4	1413	4	1000~20000MHz	6548	-41.39	-13	PASS
Band4	1513	1	0.009~0.15MHz	0.01	-76.69	-43	PASS
Band4	1513	1	0.15~30MHz	22.56	-70.7	-33	PASS
Band4	1513	1	30~1000MHz	987.15	-50.75	-13	PASS
Band4	1513	1	1000~20000MHz	6833	-41.35	-13	PASS
Band4	1513	2	0.009~0.15MHz	0.01	-76.47	-43	PASS
Band4	1513	2	0.15~30MHz	23.28	-70.51	-33	PASS
Band4	1513	2	30~1000MHz	978.43	-50.8	-13	PASS
Band4	1513	2	1000~20000MHz	6852	-41.2	-13	PASS
Band4	1513	3	0.009~0.15MHz	0.01	-76.59	-43	PASS
Band4	1513	3	0.15~30MHz	21.96	-70.79	-33	PASS
Band4	1513	3	30~1000MHz	961.95	-50.85	-13	PASS
Band4	1513	3	1000~20000MHz	6833	-41.3	-13	PASS
Band4	1513	4	0.009~0.15MHz	0.01	-76.51	-43	PASS
Band4	1513	4	0.15~30MHz	21.58	-70.29	-33	PASS
Band4	1513	4	30~1000MHz	975.03	-50.68	-13	PASS
Band4	1513	4	1000~20000MHz	6852	-41.38	-13	PASS

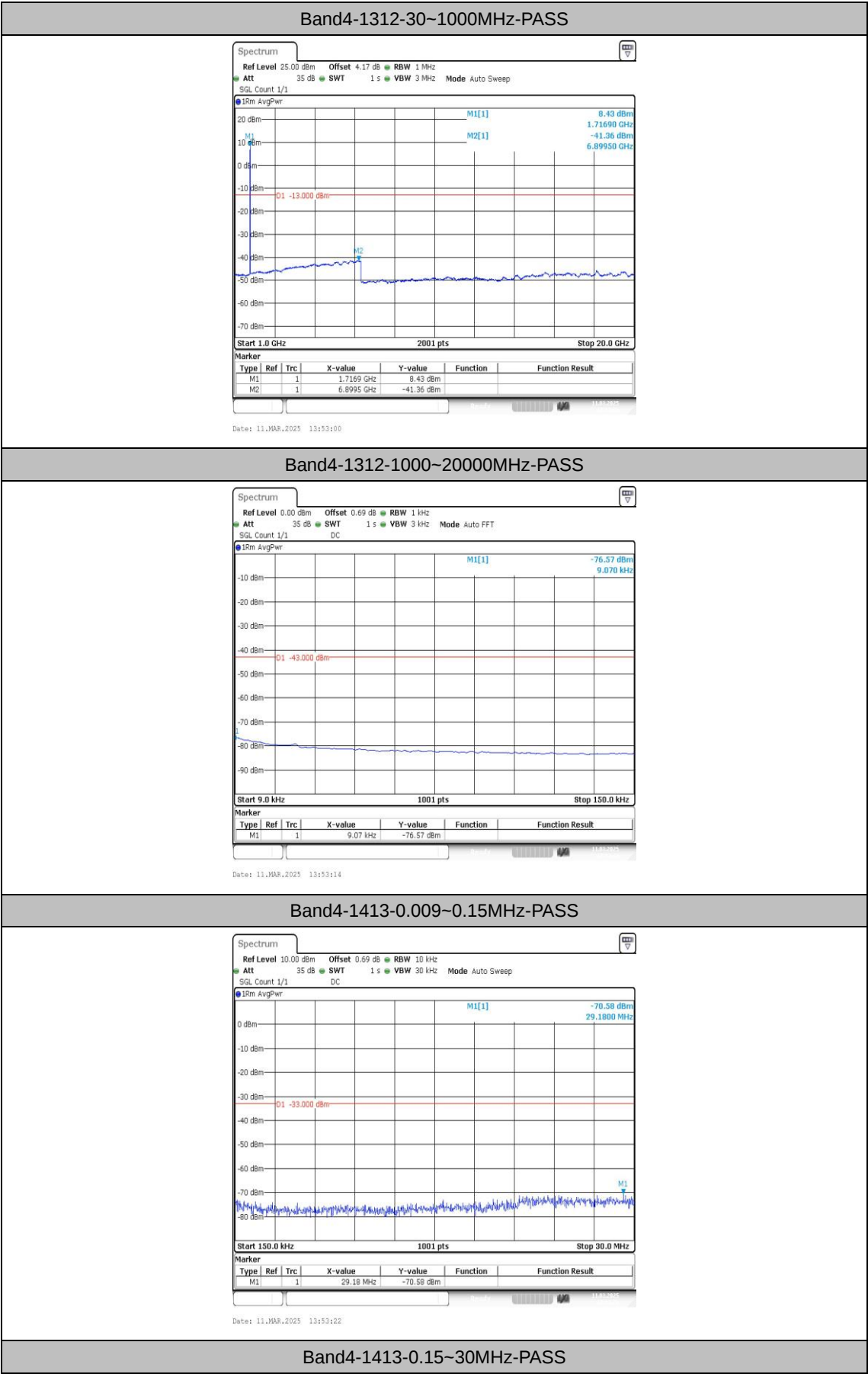
Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.009~0.15MHz	0.01	-76.3	-43	PASS
Band4	1312	1	0.15~30MHz	27.54	-71.09	-33	PASS
Band4	1312	1	30~1000MHz	989.58	-50.64	-13	PASS
Band4	1312	1	1000~20000MHz	6985	-41.35	-13	PASS
Band4	1312	2	0.009~0.15MHz	0.01	-76.6	-43	PASS
Band4	1312	2	0.15~30MHz	22.59	-71.04	-33	PASS
Band4	1312	2	30~1000MHz	951.77	-50.71	-13	PASS
Band4	1312	2	1000~20000MHz	6510	-41.36	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.01	-76.5	-43	PASS
Band4	1312	3	0.15~30MHz	22.44	-71.31	-33	PASS
Band4	1312	3	30~1000MHz	997.33	-50.72	-13	PASS

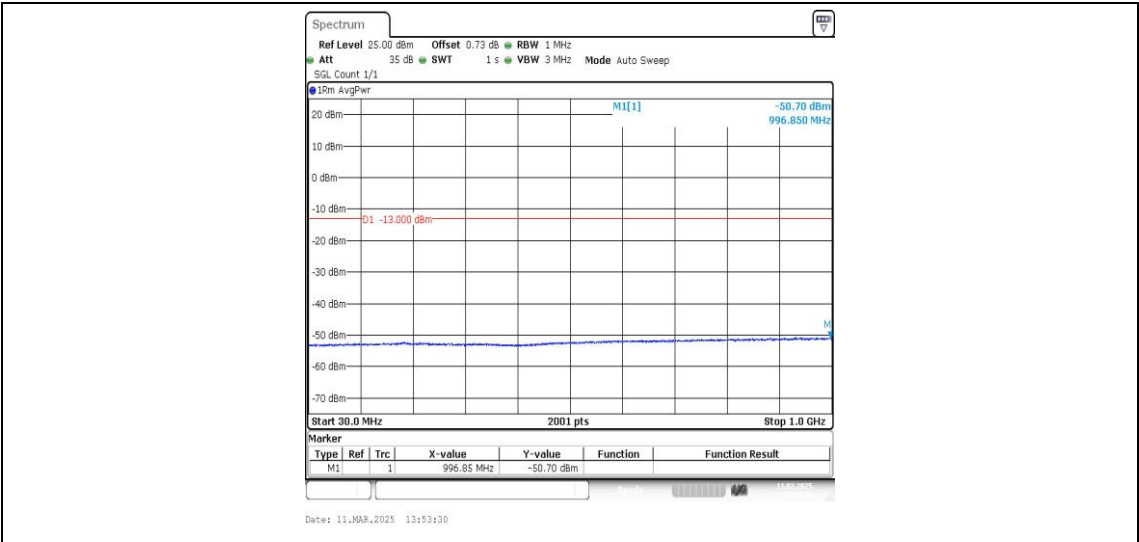
Band4	1312	3	1000~20000MHz	6833	-41.49	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.01	-76.32	-43	PASS
Band4	1312	4	0.15~30MHz	21.87	-70.34	-33	PASS
Band4	1312	4	30~1000MHz	969.22	-50.79	-13	PASS
Band4	1312	4	1000~20000MHz	6529	-41.25	-13	PASS
Band4	1312	5	0.009~0.15MHz	0.01	-76.48	-43	PASS
Band4	1312	5	0.15~30MHz	27.6	-70.44	-33	PASS
Band4	1312	5	30~1000MHz	961.95	-50.85	-13	PASS
Band4	1312	5	1000~20000MHz	6842.5	-41.49	-13	PASS
Band4	1413	1	0.009~0.15MHz	0.01	-76.38	-43	PASS
Band4	1413	1	0.15~30MHz	29.42	-70.26	-33	PASS
Band4	1413	1	30~1000MHz	990.06	-50.86	-13	PASS
Band4	1413	1	1000~20000MHz	6500.5	-41.31	-13	PASS
Band4	1413	2	0.009~0.15MHz	0.01	-76.36	-43	PASS
Band4	1413	2	0.15~30MHz	26.65	-71.25	-33	PASS
Band4	1413	2	30~1000MHz	975.03	-50.83	-13	PASS
Band4	1413	2	1000~20000MHz	6833	-41.22	-13	PASS
Band4	1413	3	0.009~0.15MHz	0.01	-76.32	-43	PASS
Band4	1413	3	0.15~30MHz	22.32	-70.43	-33	PASS
Band4	1413	3	30~1000MHz	996.36	-50.67	-13	PASS
Band4	1413	3	1000~20000MHz	6871	-41.14	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.01	-76.52	-43	PASS
Band4	1413	4	0.15~30MHz	26.02	-70.71	-33	PASS
Band4	1413	4	30~1000MHz	954.19	-50.88	-13	PASS
Band4	1413	4	1000~20000MHz	6529	-41.3	-13	PASS
Band4	1413	5	0.009~0.15MHz	0.01	-76.39	-43	PASS
Band4	1413	5	0.15~30MHz	21.7	-70.58	-33	PASS
Band4	1413	5	30~1000MHz	995.88	-50.78	-13	PASS
Band4	1413	5	1000~20000MHz	6852	-41.42	-13	PASS
Band4	1513	1	0.009~0.15MHz	0.01	-76.42	-43	PASS
Band4	1513	1	0.15~30MHz	22.47	-70.78	-33	PASS
Band4	1513	1	30~1000MHz	990.55	-50.72	-13	PASS
Band4	1513	1	1000~20000MHz	6861.5	-41.45	-13	PASS
Band4	1513	2	0.009~0.15MHz	0.01	-76.53	-43	PASS
Band4	1513	2	0.15~30MHz	24.65	-71.07	-33	PASS
Band4	1513	2	30~1000MHz	999.27	-50.82	-13	PASS
Band4	1513	2	1000~20000MHz	6880.5	-41.37	-13	PASS
Band4	1513	3	0.009~0.15MHz	0.01	-76.51	-43	PASS
Band4	1513	3	0.15~30MHz	21.58	-71.03	-33	PASS
Band4	1513	3	30~1000MHz	992.97	-50.78	-13	PASS
Band4	1513	3	1000~20000MHz	6842.5	-41.38	-13	PASS
Band4	1513	4	0.009~0.15MHz	0.01	-76.49	-43	PASS

Band4	1513	4	0.15~30MHz	28.02	-70.77	-33	PASS
Band4	1513	4	30~1000MHz	987.64	-50.75	-13	PASS
Band4	1513	4	1000~20000MHz	6510	-41.35	-13	PASS
Band4	1513	5	0.009~0.15MHz	0.01	-76.69	-43	PASS
Band4	1513	5	0.15~30MHz	24.74	-70.74	-33	PASS
Band4	1513	5	30~1000MHz	976	-50.8	-13	PASS
Band4	1513	5	1000~20000MHz	6500.5	-41.37	-13	PASS

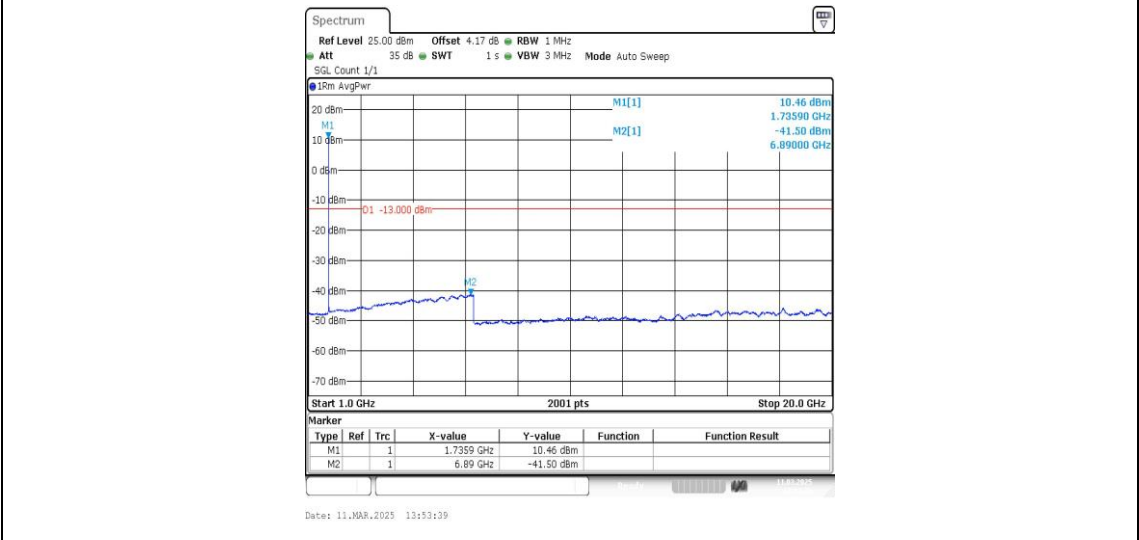
Test Graphs



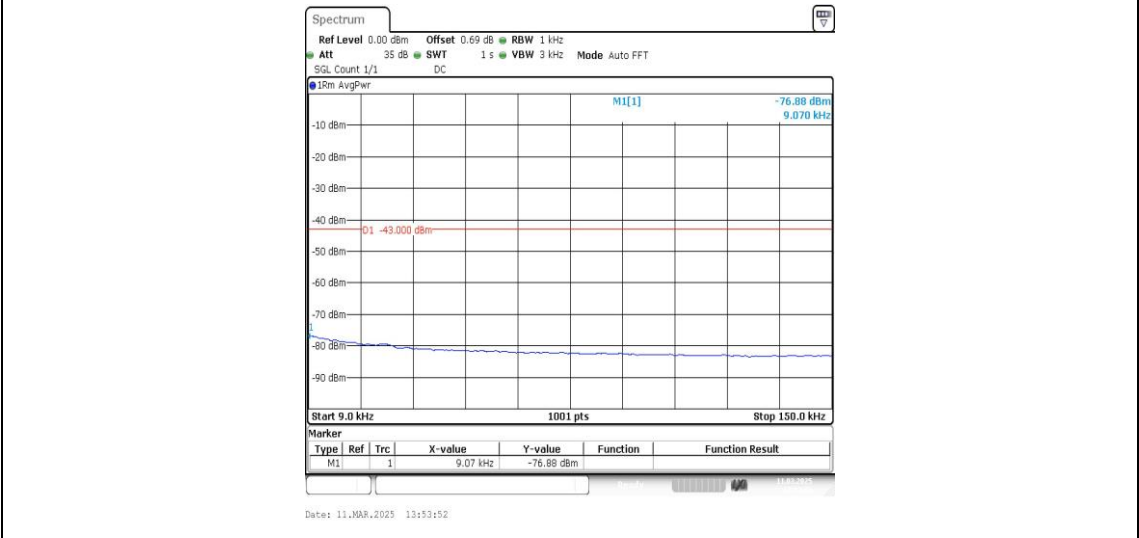




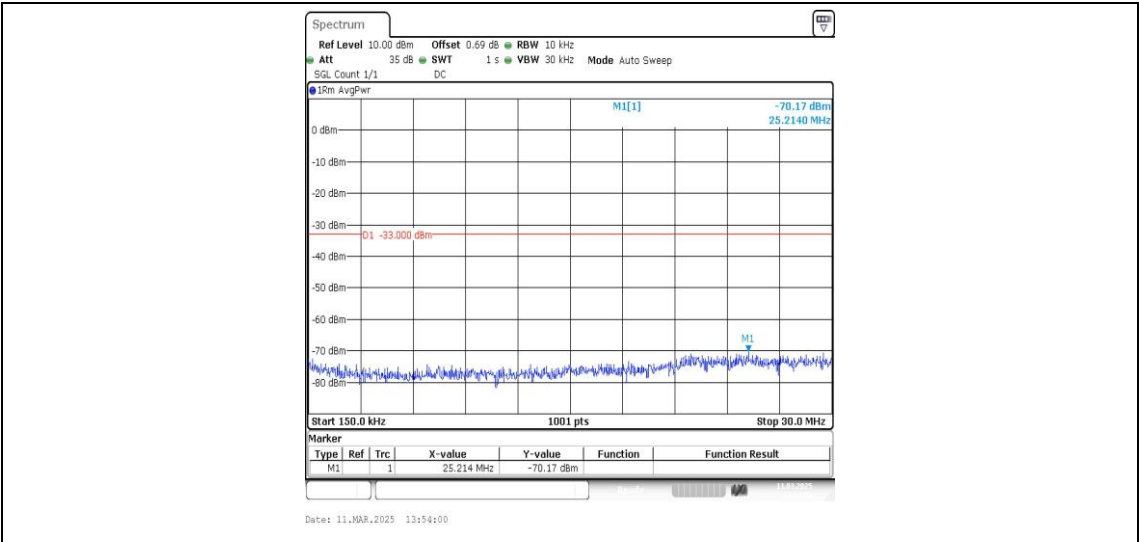
Band4-1413-30~1000MHz-PASS



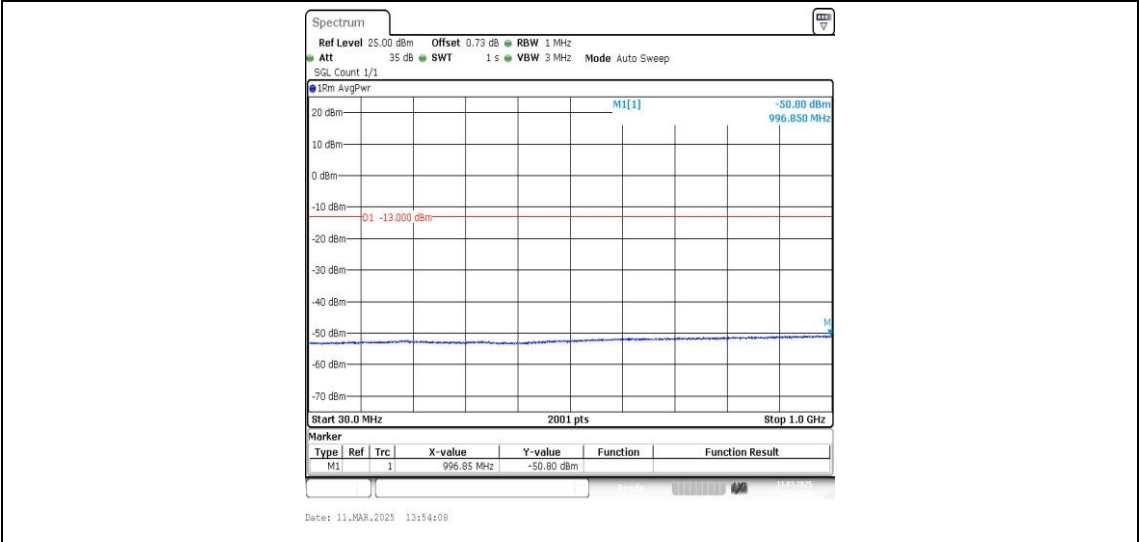
Band4-1413-1000~20000MHz-PASS



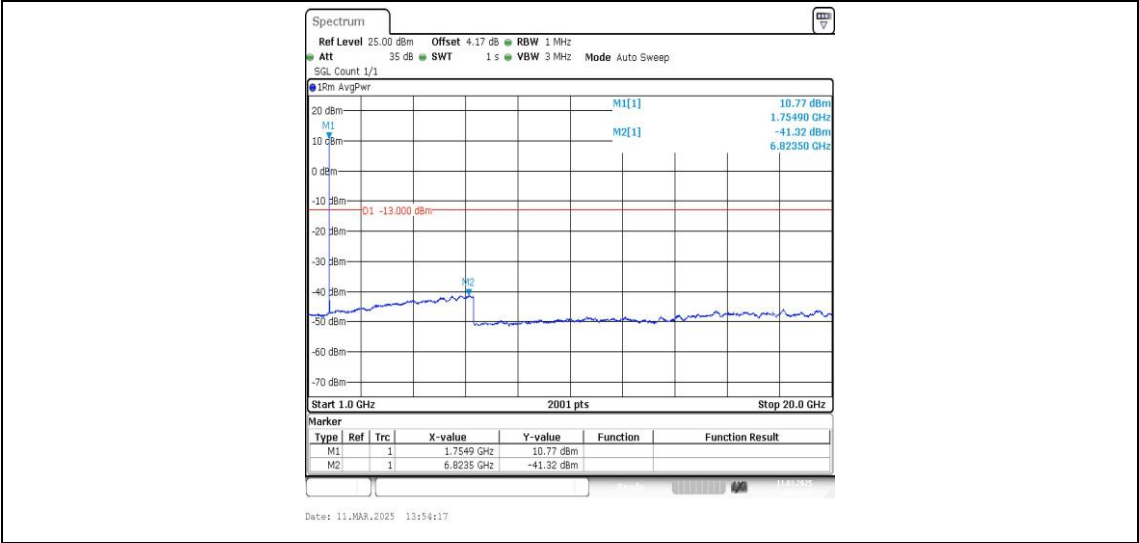
Band4-1513-0.009~0.15MHz-PASS



Band4-1513-0.15~30MHz-PASS



Band4-1513-30~1000MHz-PASS



Band4-1513-1000~20000MHz-PASS