

Appendix for WCDMA Band 4

Product Name: 5G Window CPE

Model No: TITAN 5100

AppendixA: Average Power Output Data

Test Result

WCDMA

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	22.68	30.00	PASS
Band4	1413	22.77	30.00	PASS
Band4	1513	23.18	30.00	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.74	30.00	PASS
Band4	1413	1	21.84	30.00	PASS
Band4	1513	1	22.20	30.00	PASS
Band4	1312	2	21.20	30.00	PASS
Band4	1413	2	21.29	30.00	PASS
Band4	1513	2	21.74	30.00	PASS
Band4	1312	3	21.14	30.00	PASS
Band4	1413	3	21.31	30.00	PASS
Band4	1513	3	21.69	30.00	PASS
Band4	1312	4	21.18	30.00	PASS
Band4	1413	4	21.31	30.00	PASS
Band4	1513	4	21.71	30.00	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	1	21.66	30.00	PASS
Band4	1413	1	21.82	30.00	PASS
Band4	1513	1	22.17	30.00	PASS
Band4	1312	2	19.67	30.00	PASS
Band4	1413	2	19.81	30.00	PASS
Band4	1513	2	20.18	30.00	PASS
Band4	1312	3	20.67	30.00	PASS
Band4	1413	3	20.75	30.00	PASS
Band4	1513	3	21.10	30.00	PASS
Band4	1312	4	19.67	30.00	PASS
Band4	1413	4	19.79	30.00	PASS
Band4	1513	4	20.15	30.00	PASS
Band4	1312	5	21.80	30.00	PASS

Band4	1413	5	21.78	30.00	PASS
Band4	1513	5	22.20	30.00	PASS

AppendixB:Peak-to-Average Ratio

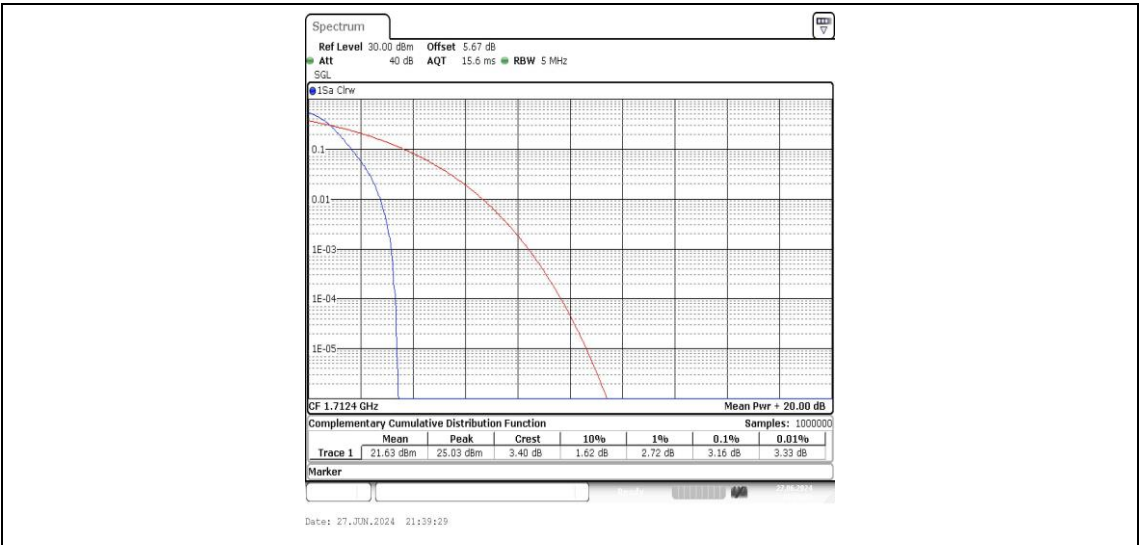
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.16	13	PASS
Band4	1413	3.22	13	PASS
Band4	1513	3.16	13	PASS

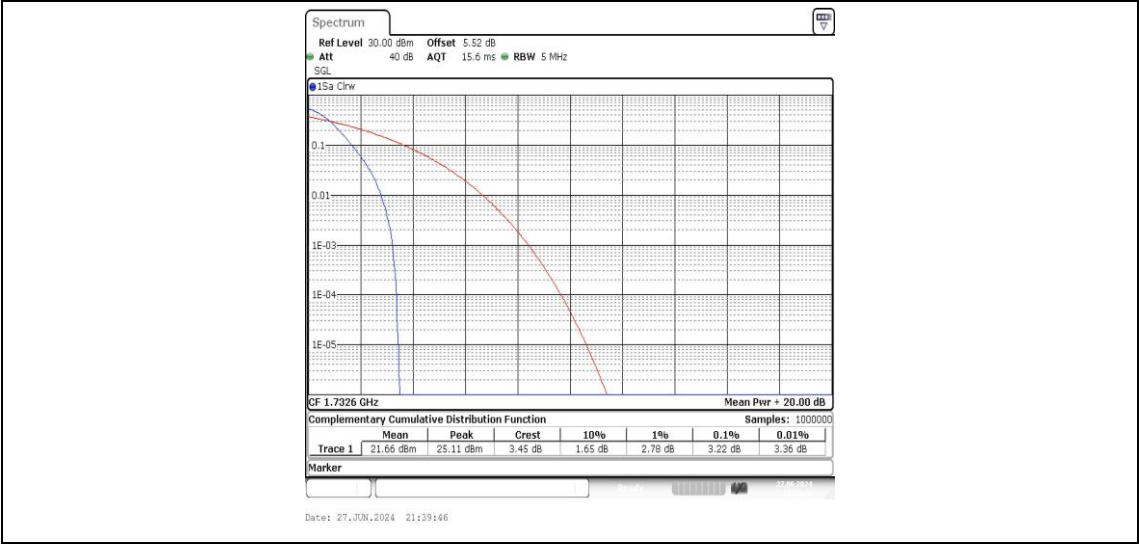
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	3.3	13	PASS
Band4	1413	1	3.33	13	PASS
Band4	1513	1	3.3	13	PASS
Band4	1312	2	3.51	13	PASS
Band4	1413	2	3.54	13	PASS
Band4	1513	2	3.48	13	PASS
Band4	1312	3	3.65	13	PASS
Band4	1413	3	3.65	13	PASS
Band4	1513	3	3.65	13	PASS
Band4	1312	4	3.71	13	PASS
Band4	1413	4	3.74	13	PASS
Band4	1513	4	3.68	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	4.46	13	PASS
Band4	1413	1	4.52	13	PASS
Band4	1513	1	4.49	13	PASS
Band4	1312	2	5.45	13	PASS
Band4	1413	2	5.59	13	PASS
Band4	1513	2	5.48	13	PASS
Band4	1312	3	5.28	13	PASS
Band4	1413	3	5.36	13	PASS
Band4	1513	3	5.3	13	PASS
Band4	1312	4	5.45	13	PASS
Band4	1413	4	3.45	13	PASS
Band4	1513	4	3.45	13	PASS
Band4	1312	5	4.2	13	PASS
Band4	1413	5	4.26	13	PASS
Band4	1513	5	4.17	13	PASS

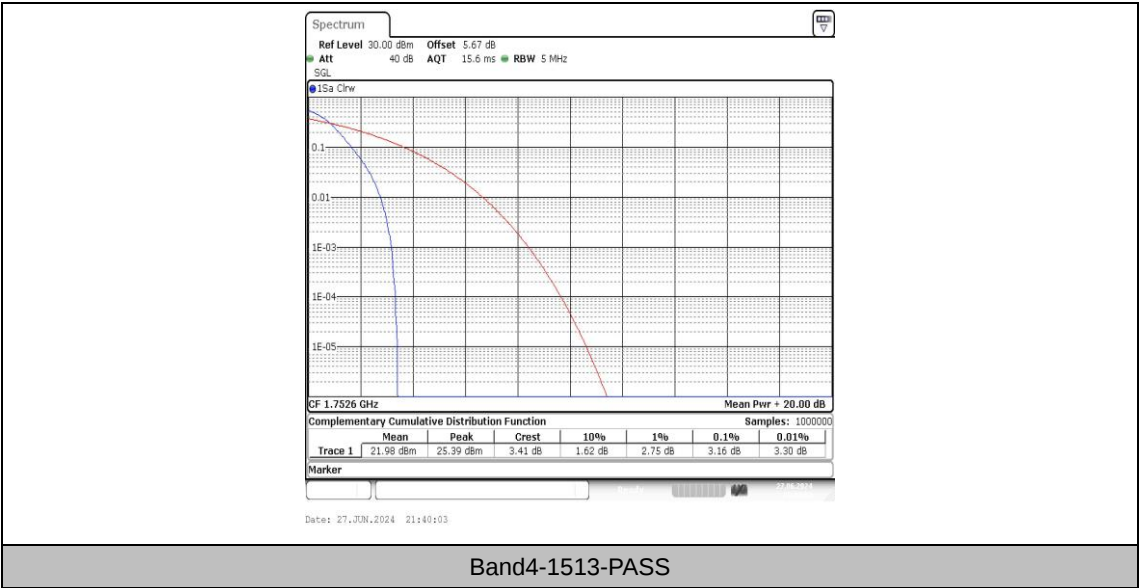
Test Graphs

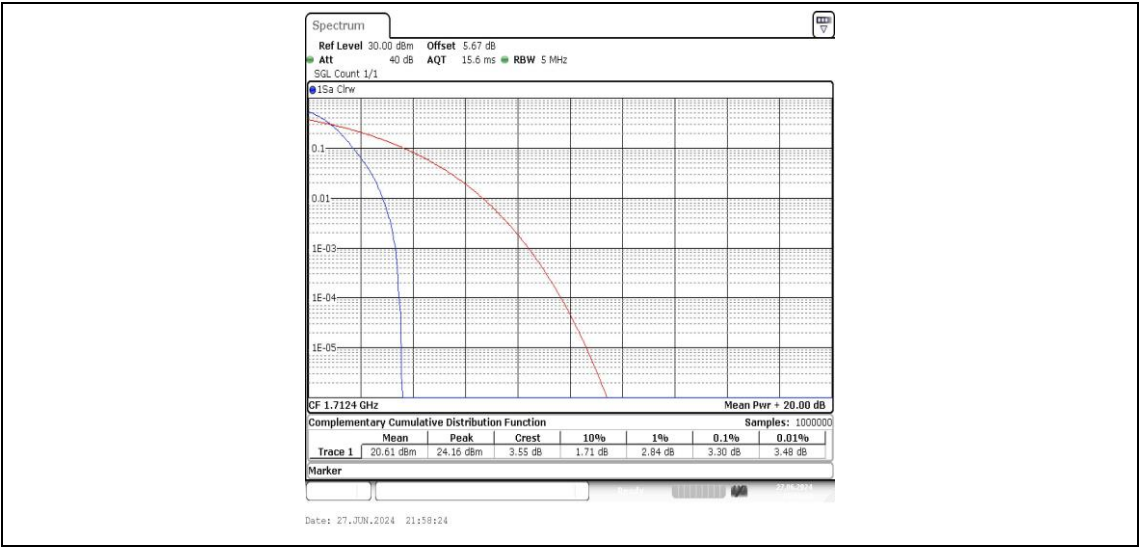


Band4-1312-PASS

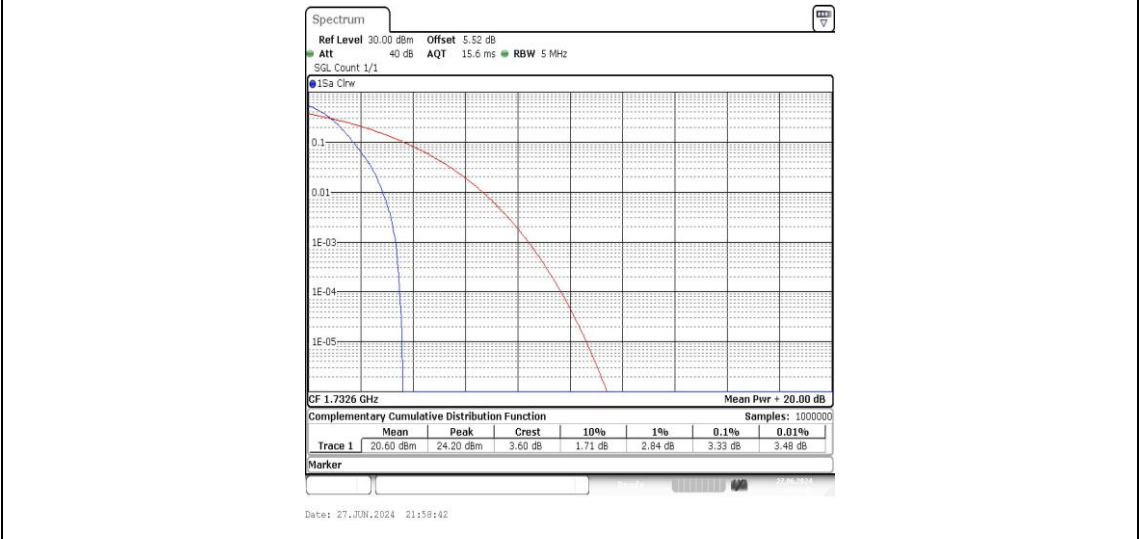


Band4-1413-PASS

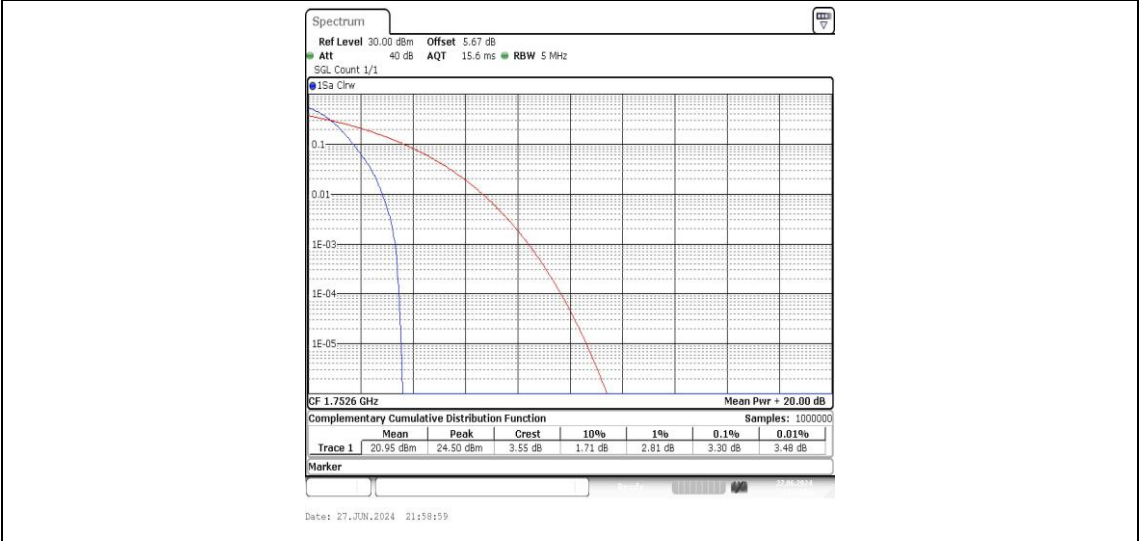




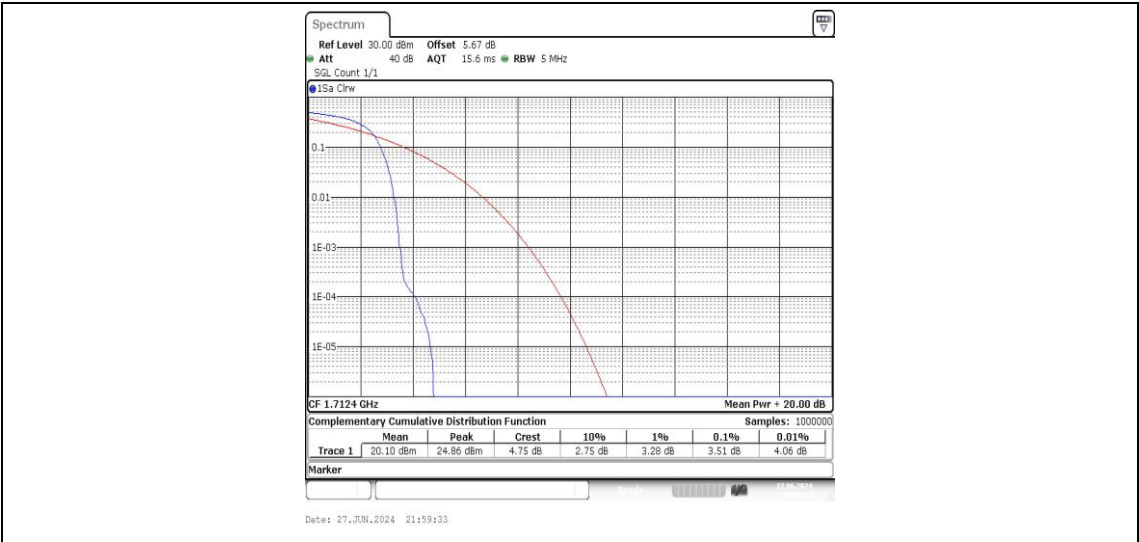
Band4-1312-1-PASS



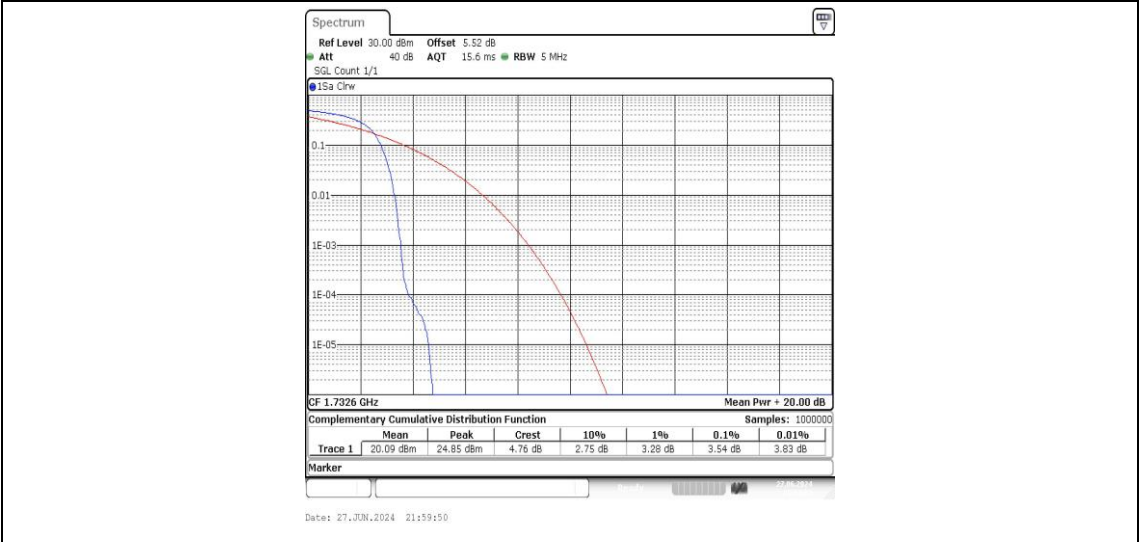
Band4-1413-1-PASS



Band4-1513-1-PASS



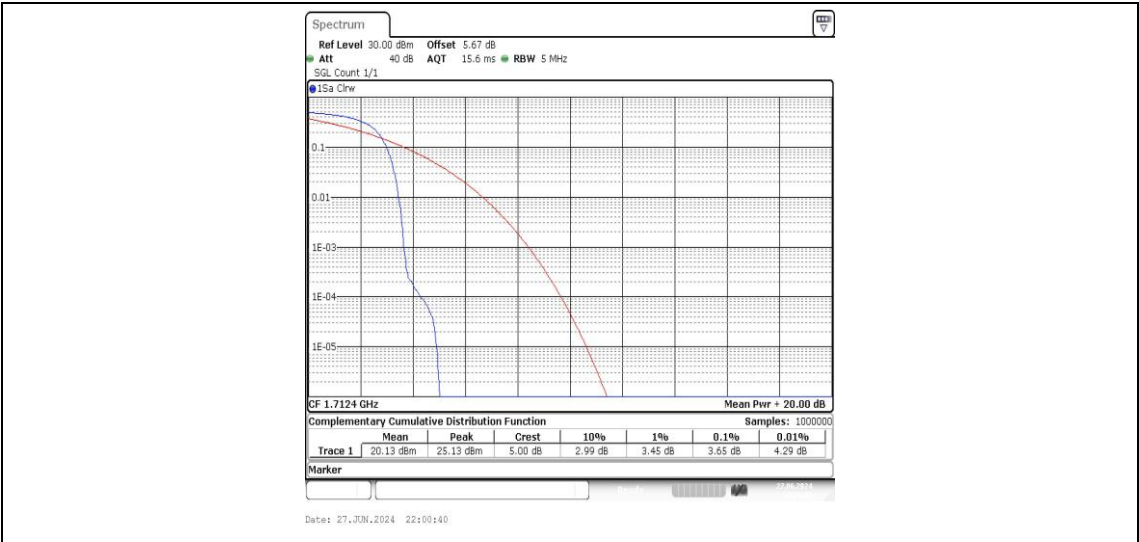
Band4-1312-2-PASS



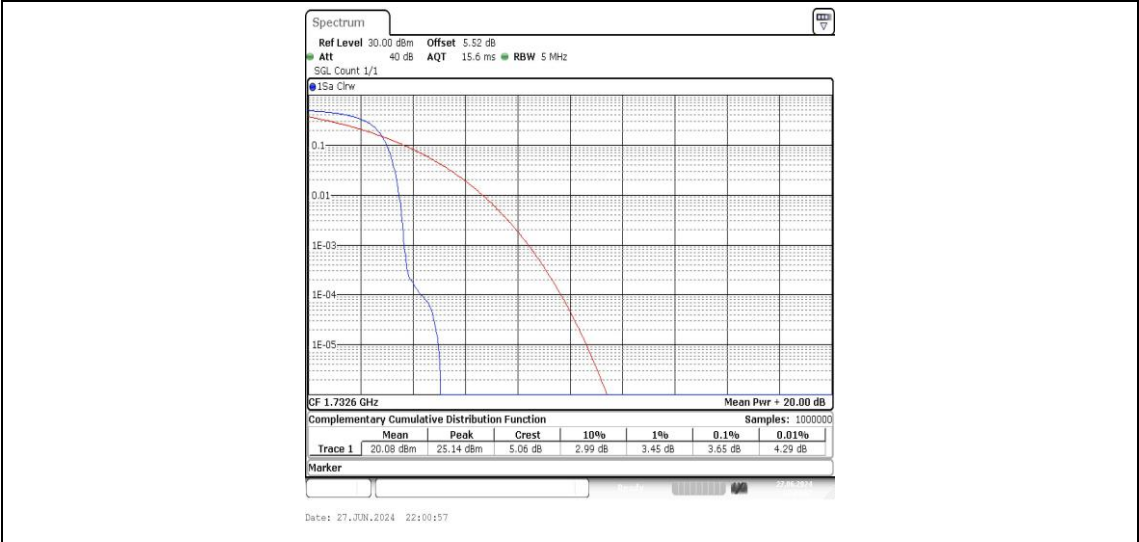
Band4-1413-2-PASS



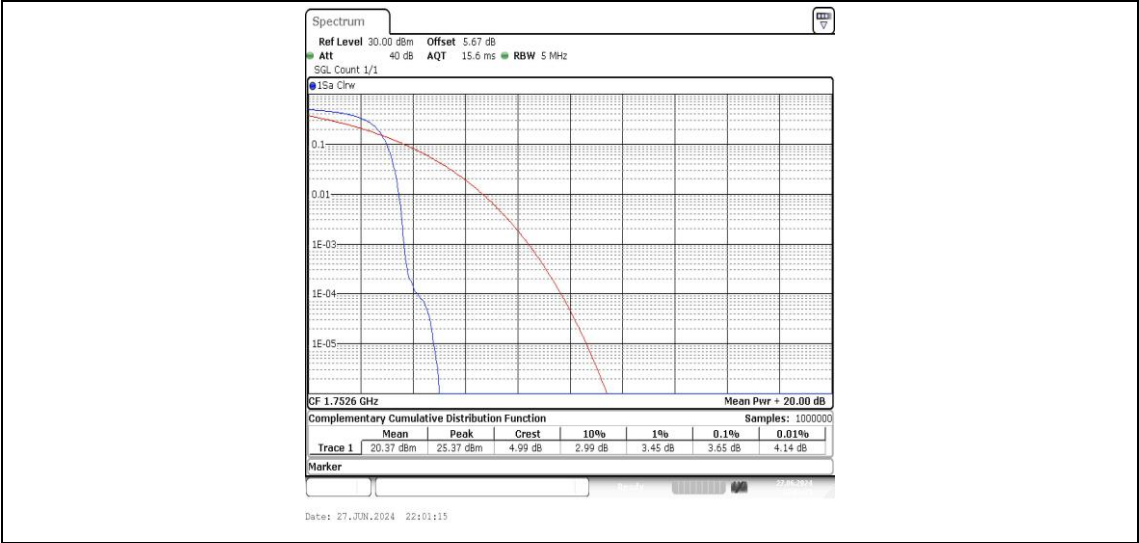
Band4-1513-2-PASS



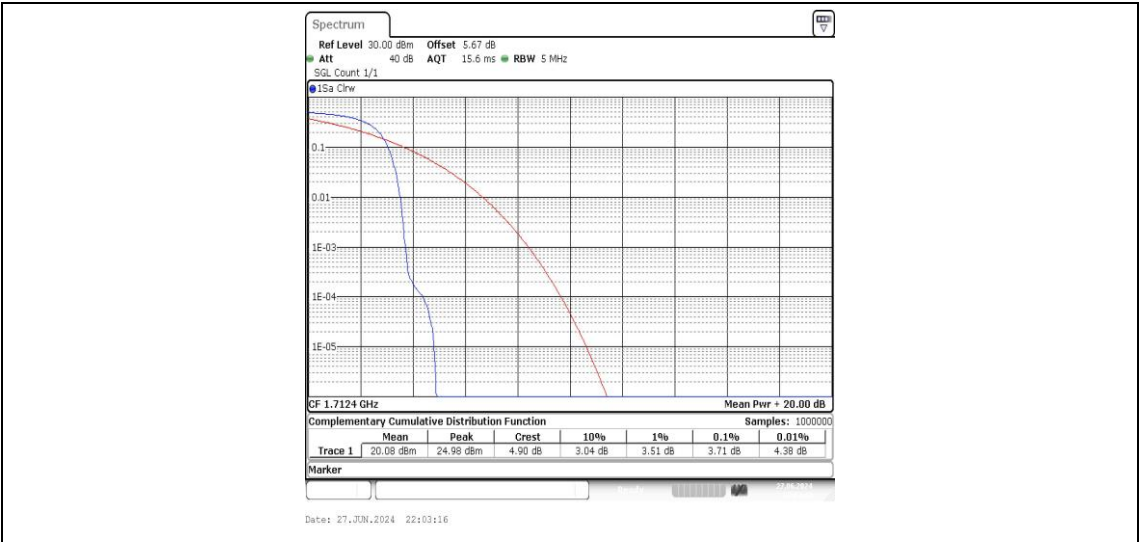
Band4-1312-3-PASS



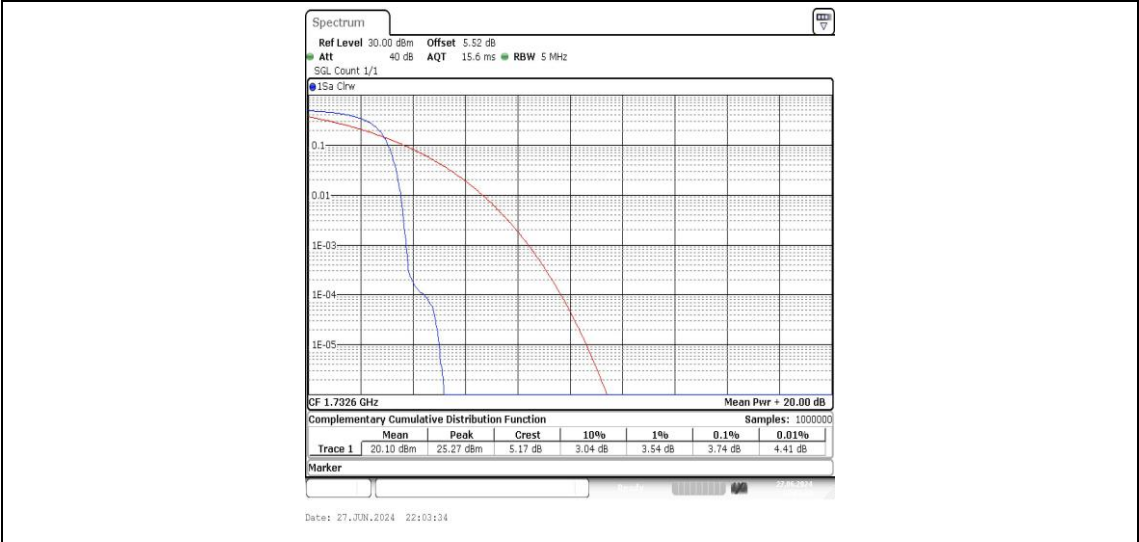
Band4-1413-3-PASS



Band4-1513-3-PASS



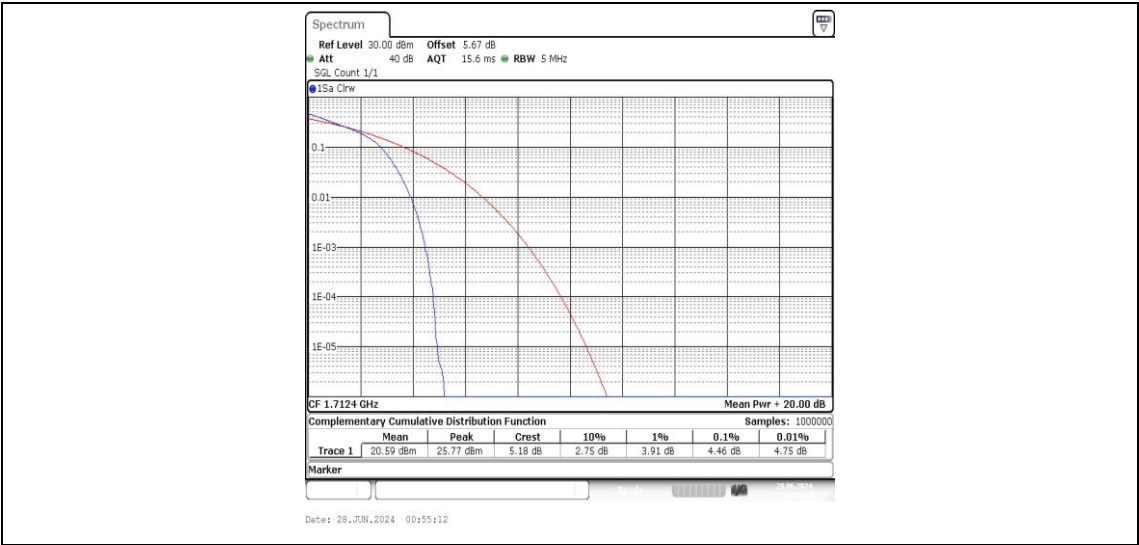
Band4-1312-4-PASS



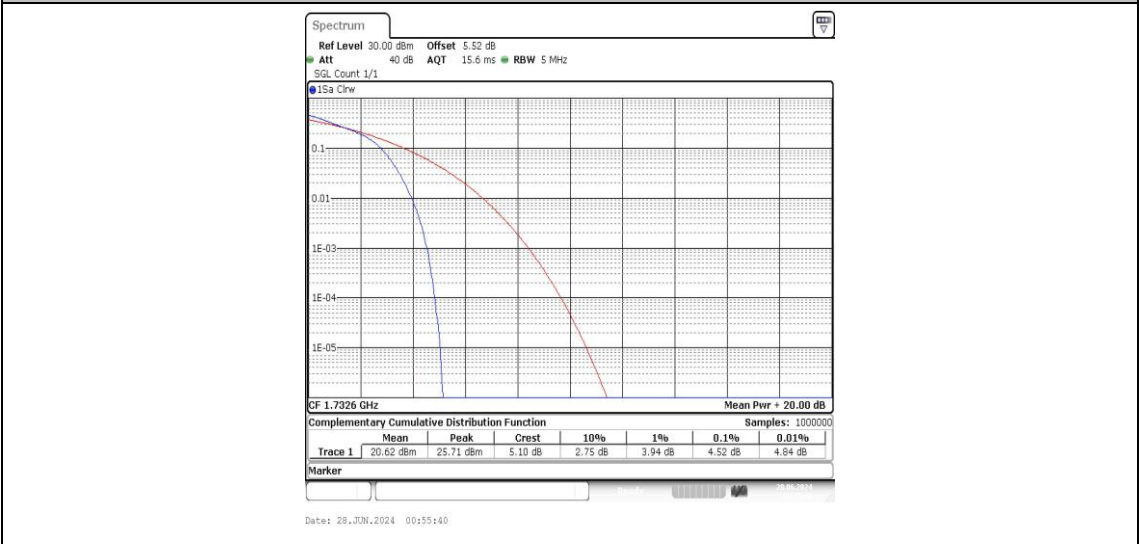
Band4-1413-4-PASS



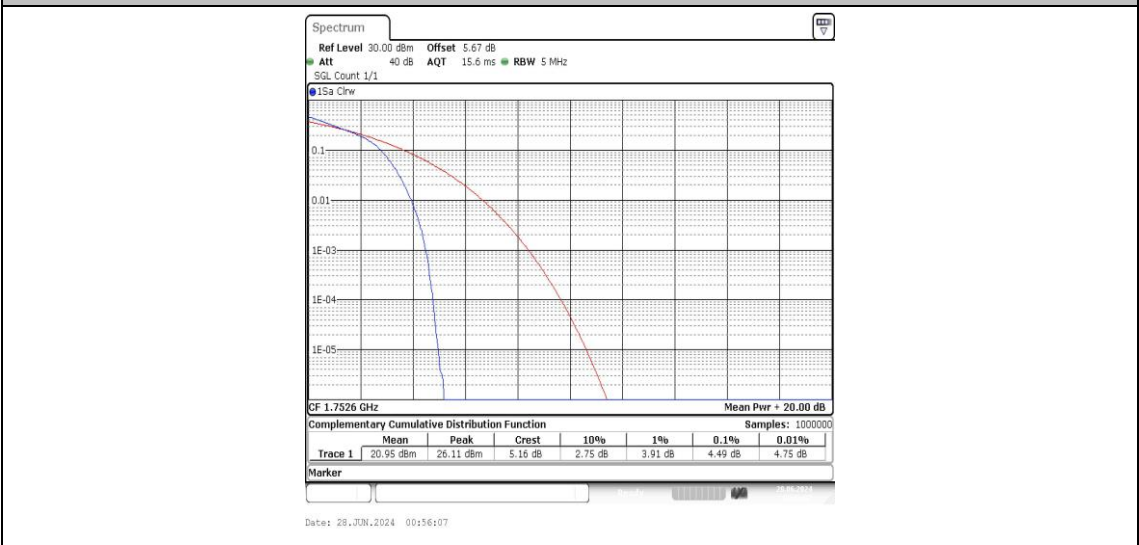
Band4-1513-4-PASS

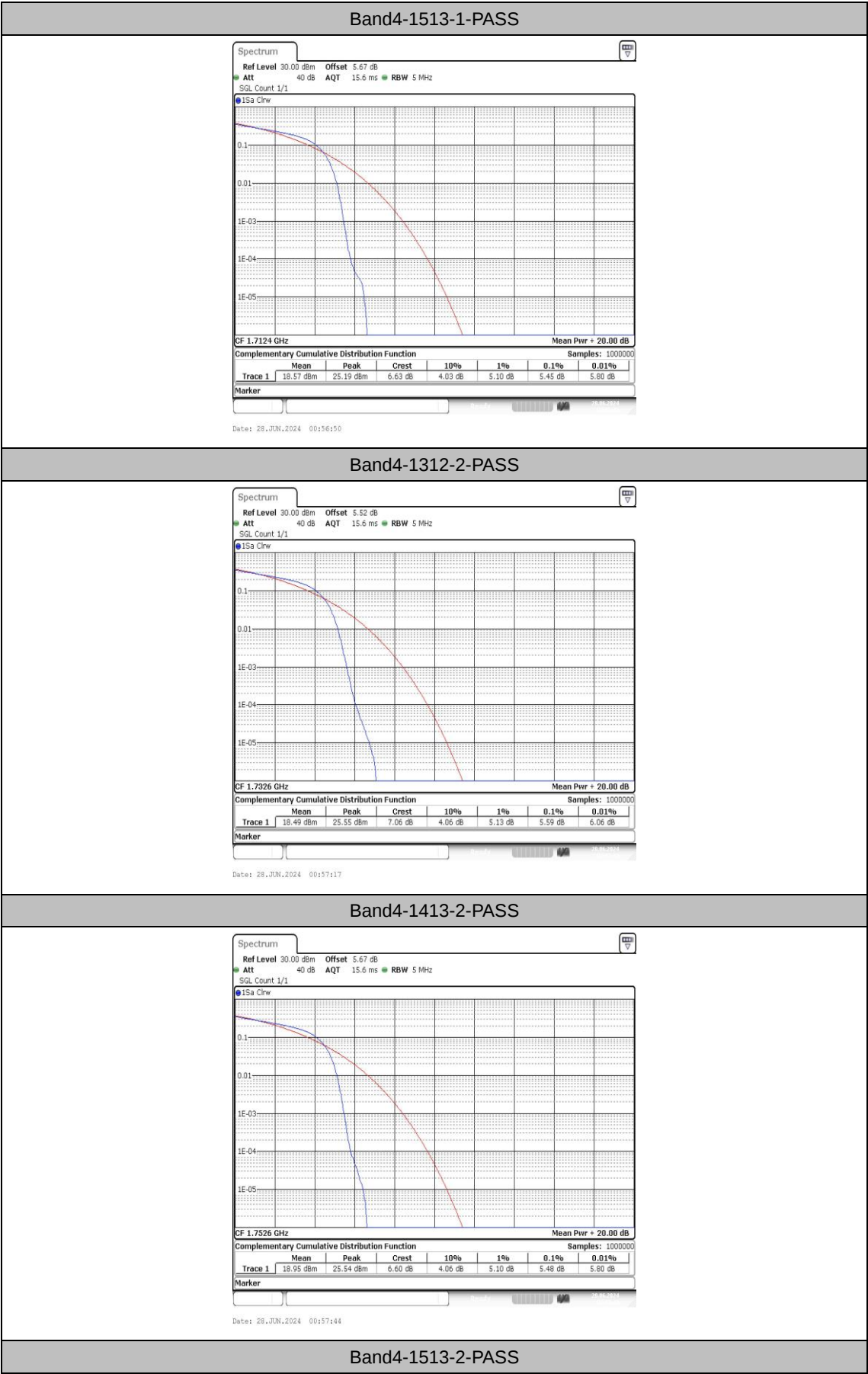


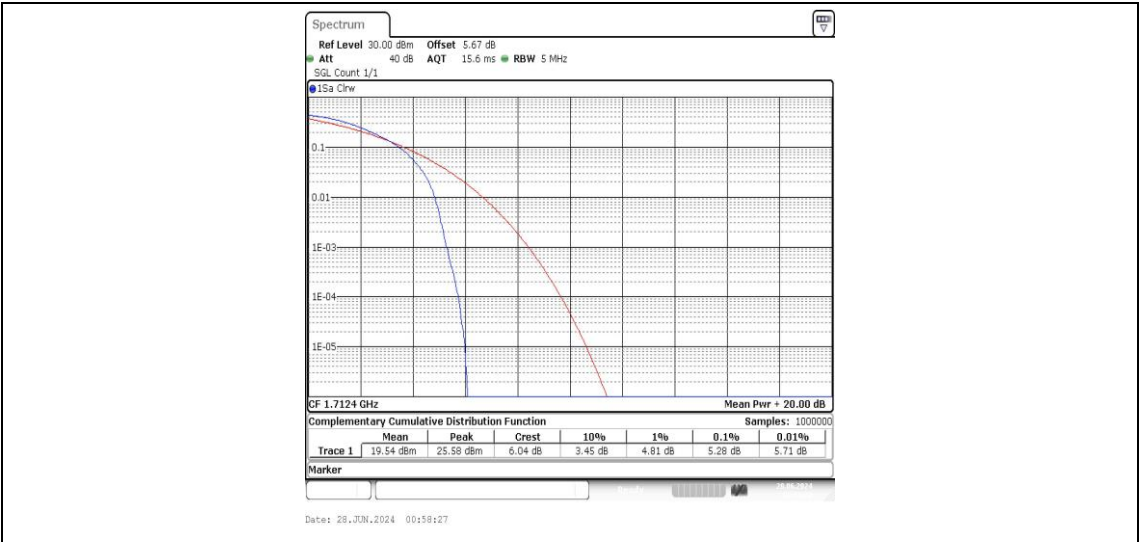
Band4-1312-1-PASS



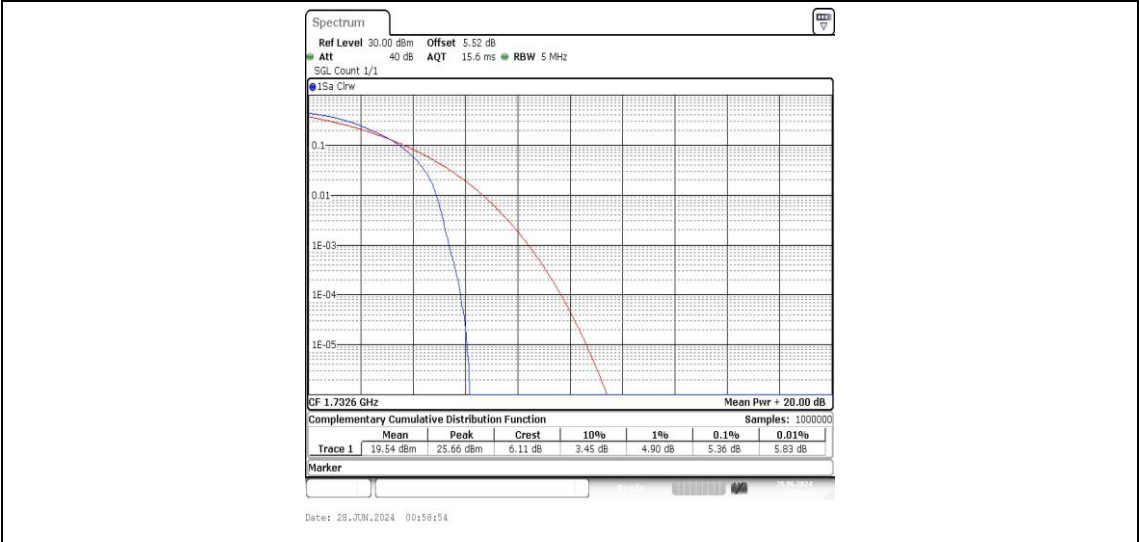
Band4-1413-1-PASS







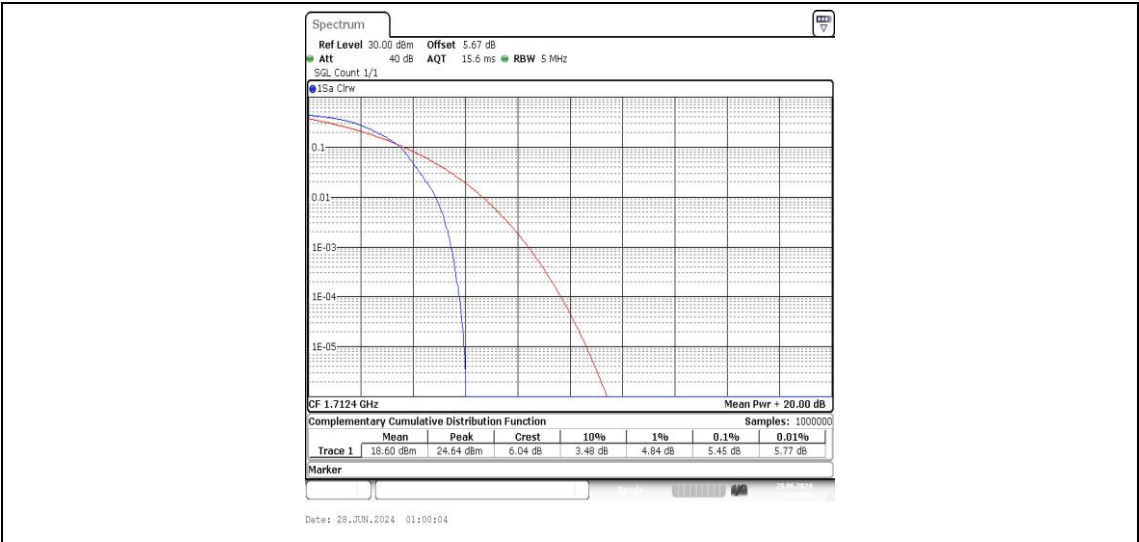
Band4-1312-3-PASS



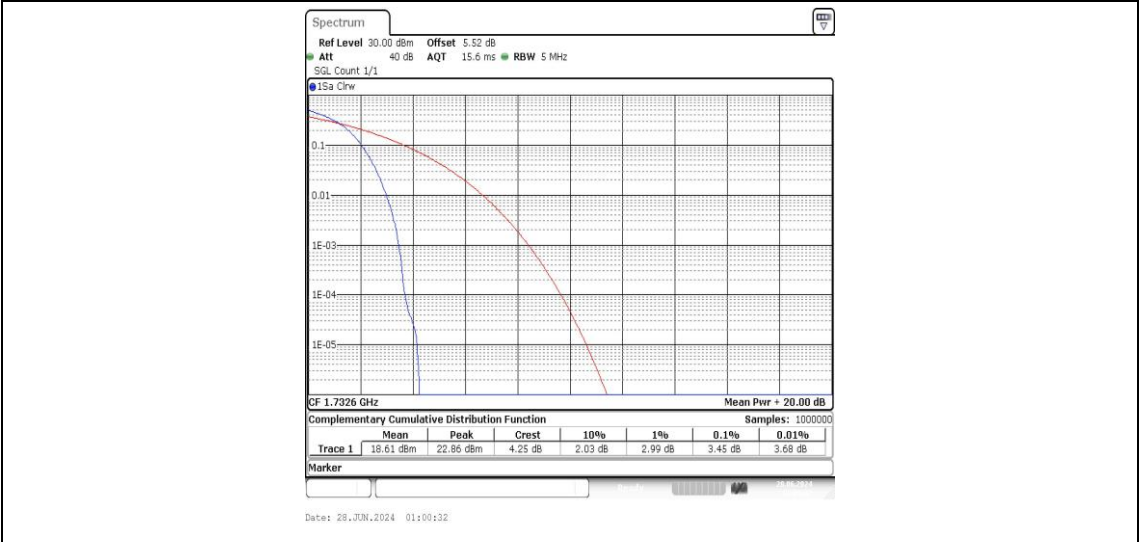
Band4-1413-3-PASS



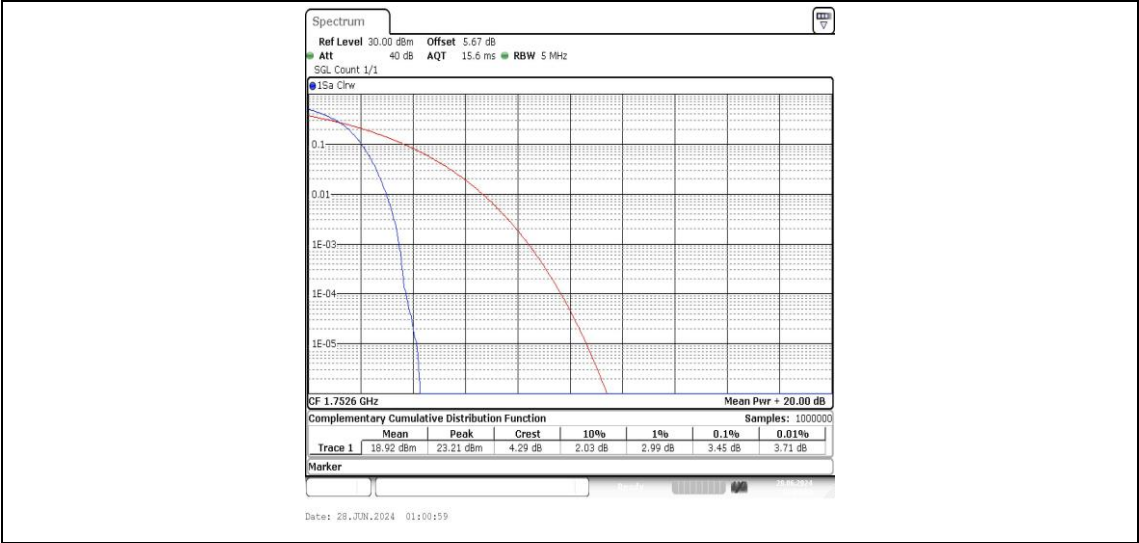
Band4-1513-3-PASS



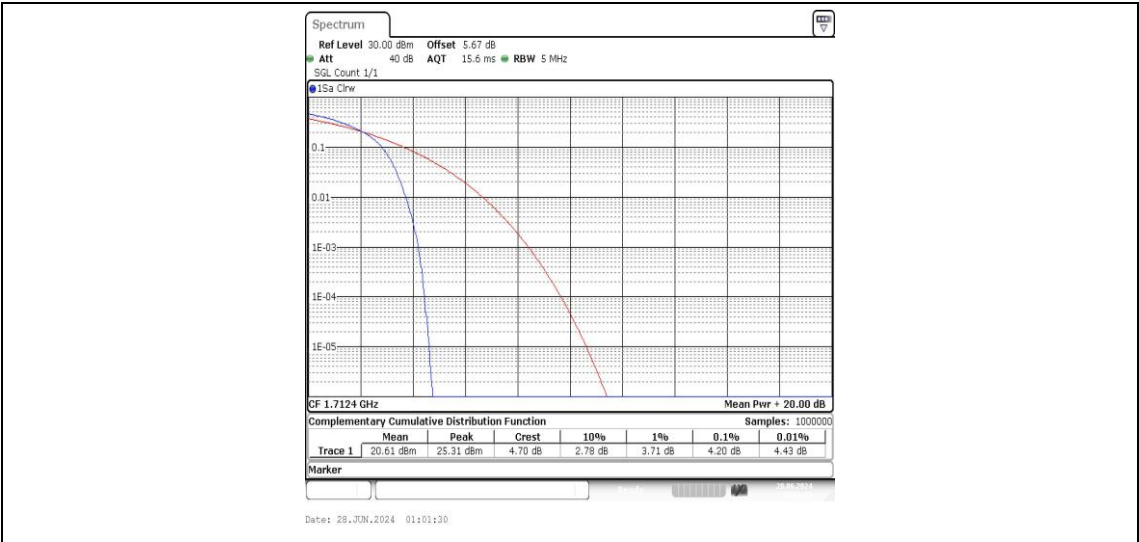
Band4-1312-4-PASS



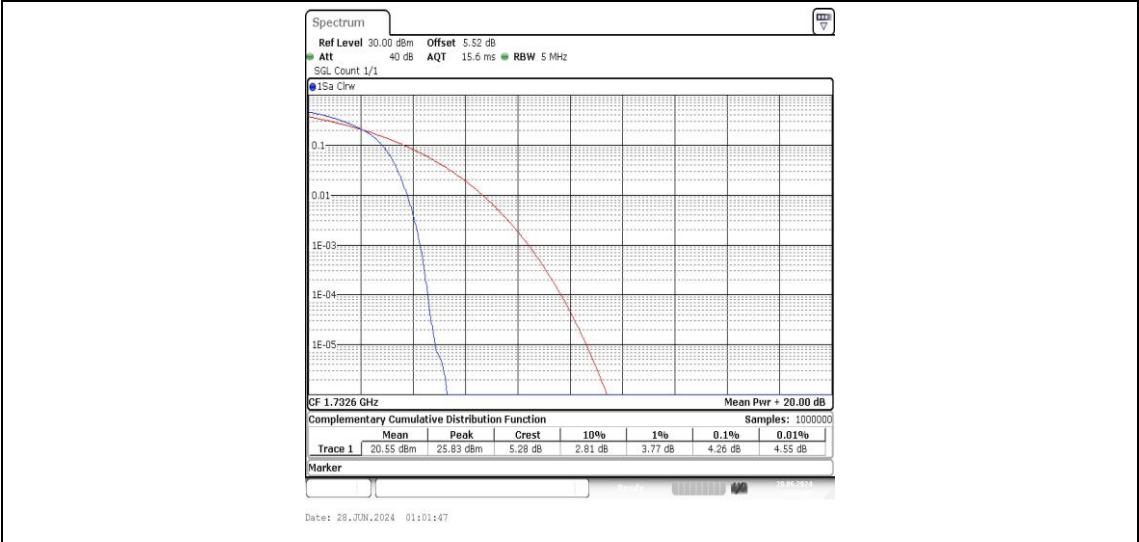
Band4-1413-4-PASS



Band4-1513-4-PASS



Band4-1312-5-PASS



Band4-1413-5-PASS



Band4-1513-5-PASS

AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result

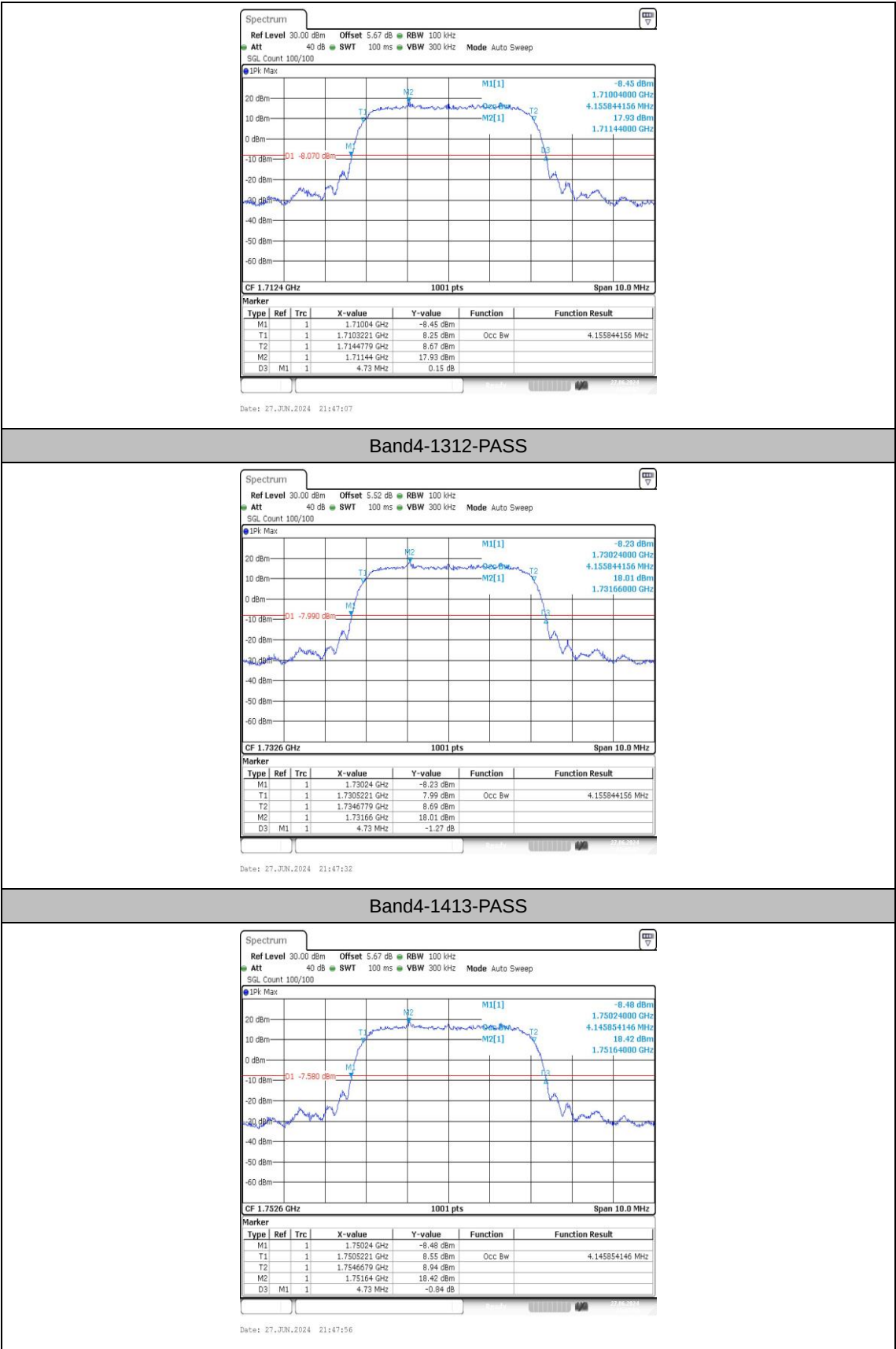
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.156	4.73	---	PASS
Band4	1413	4.156	4.73	---	PASS
Band4	1513	4.146	4.73	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.156	4.72	---	PASS
Band4	1413	1	4.146	4.72	---	PASS
Band4	1513	1	4.146	4.74	---	PASS
Band4	1312	2	4.156	4.75	---	PASS
Band4	1413	2	4.156	4.73	---	PASS
Band4	1513	2	4.156	4.75	---	PASS
Band4	1312	3	4.156	4.76	---	PASS
Band4	1413	3	4.156	4.75	---	PASS
Band4	1513	3	4.146	4.75	---	PASS
Band4	1312	4	4.146	4.72	---	PASS
Band4	1413	4	4.146	4.75	---	PASS
Band4	1513	4	4.166	4.75	---	PASS

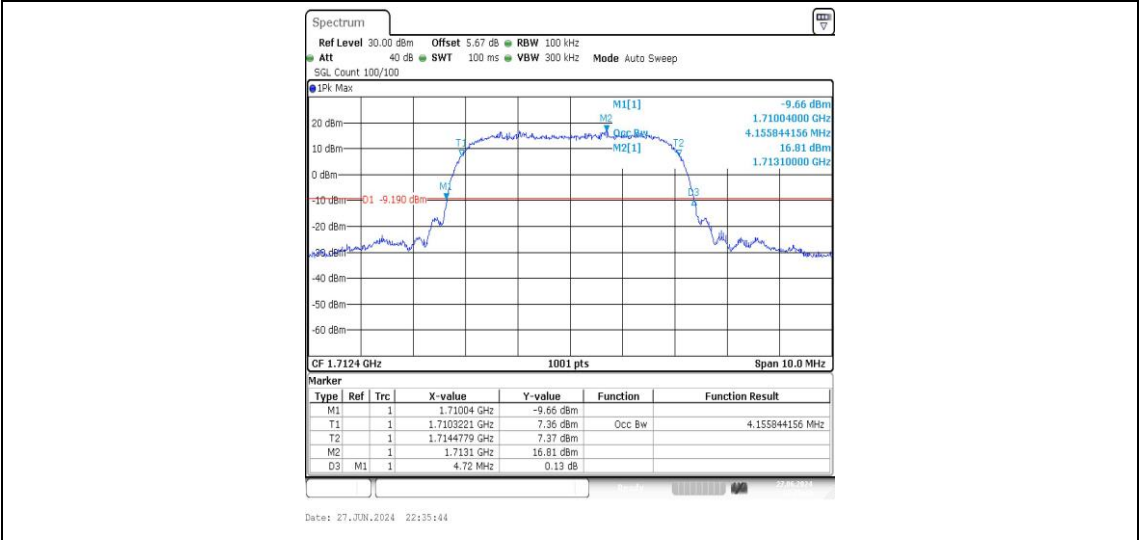
Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.156	4.75	---	PASS
Band4	1413	1	4.166	4.76	---	PASS
Band4	1513	1	4.186	4.73	---	PASS
Band4	1312	2	4.166	4.76	---	PASS
Band4	1413	2	4.176	4.77	---	PASS
Band4	1513	2	4.166	4.75	---	PASS
Band4	1312	3	4.176	4.75	---	PASS
Band4	1413	3	4.176	4.75	---	PASS
Band4	1513	3	4.176	4.76	---	PASS
Band4	1312	4	4.166	4.76	---	PASS

Band4	1413	4	4.166	4.77	---	PASS
Band4	1513	4	4.146	4.73	---	PASS
Band4	1312	5	4.146	4.74	---	PASS
Band4	1413	5	4.156	4.74	---	PASS
Band4	1513	5	4.156	4.72	---	PASS

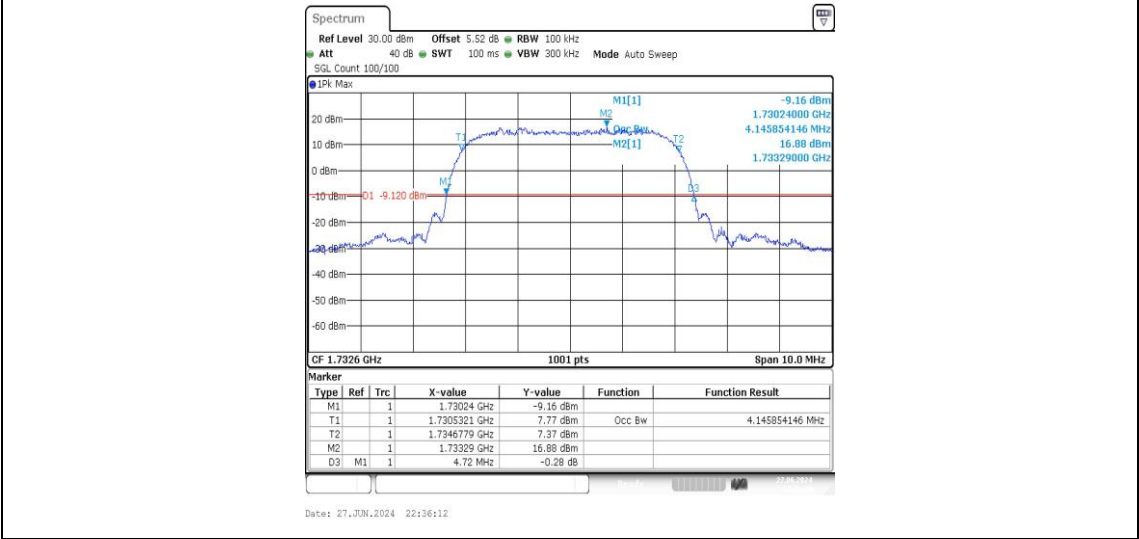
Test Graphs



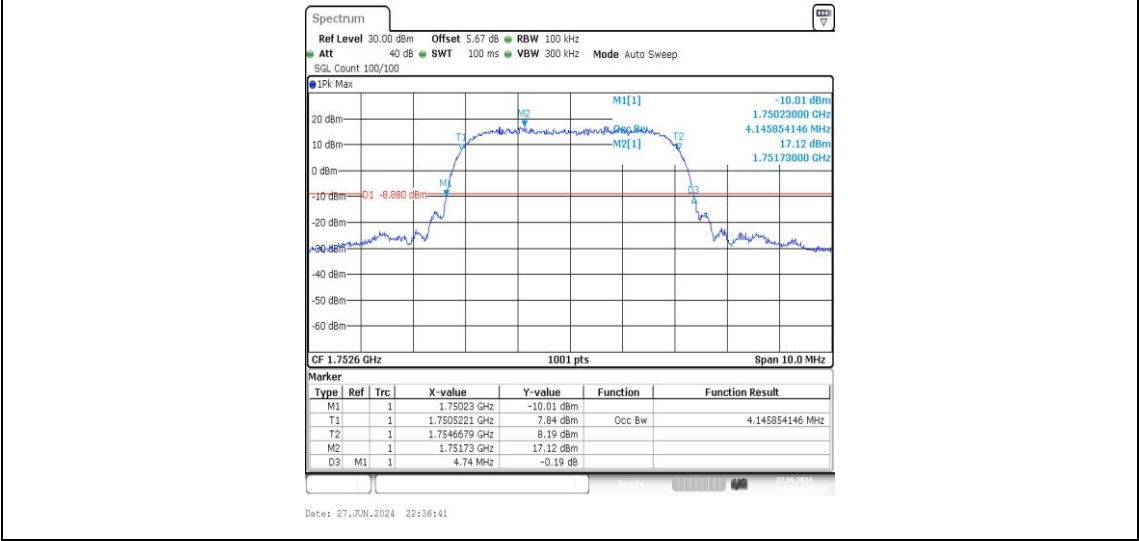
Band4-1513-PASS

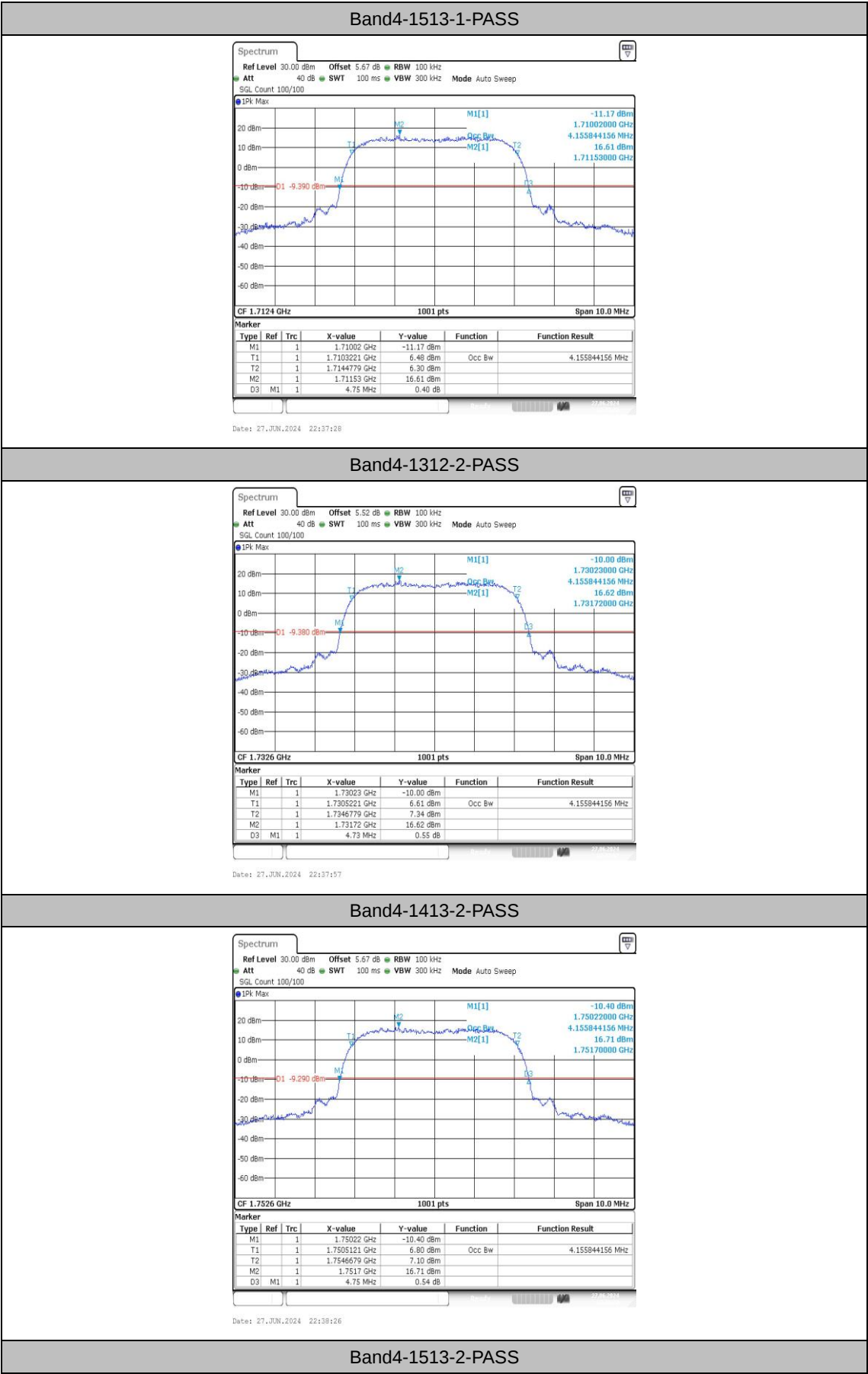


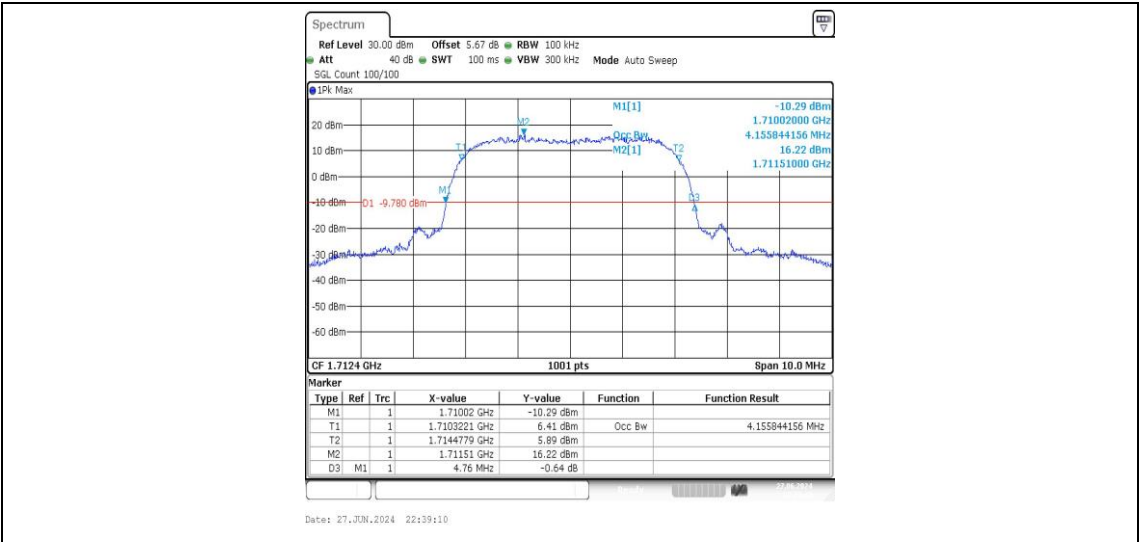
Band4-1312-1-PASS



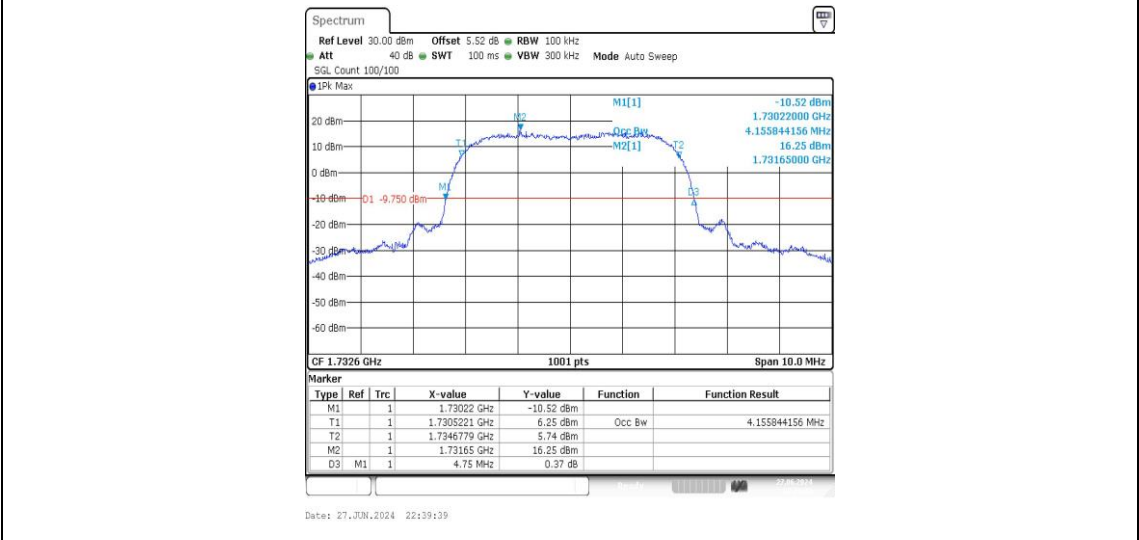
Band4-1413-1-PASS



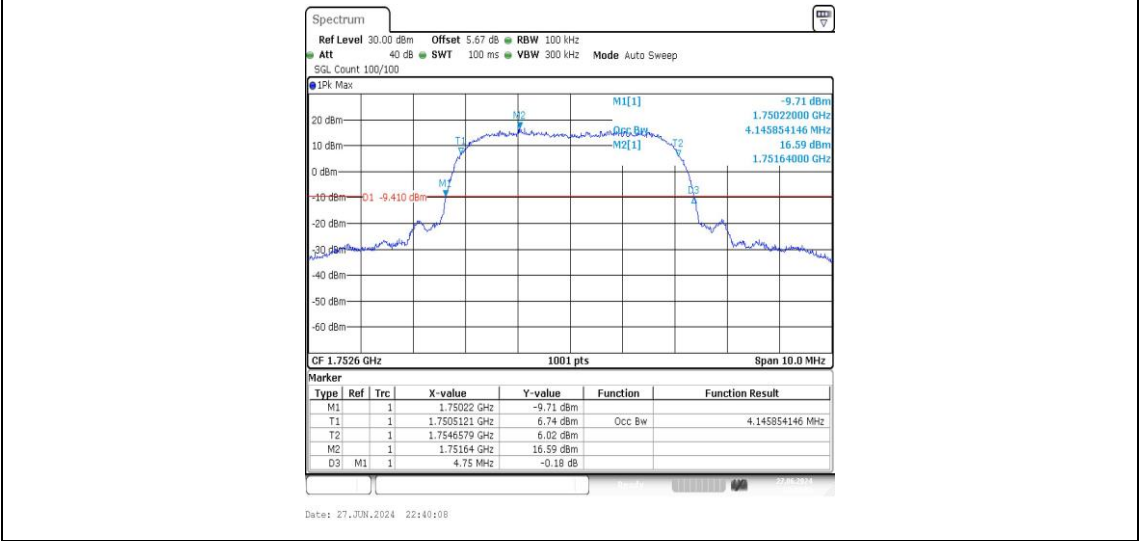




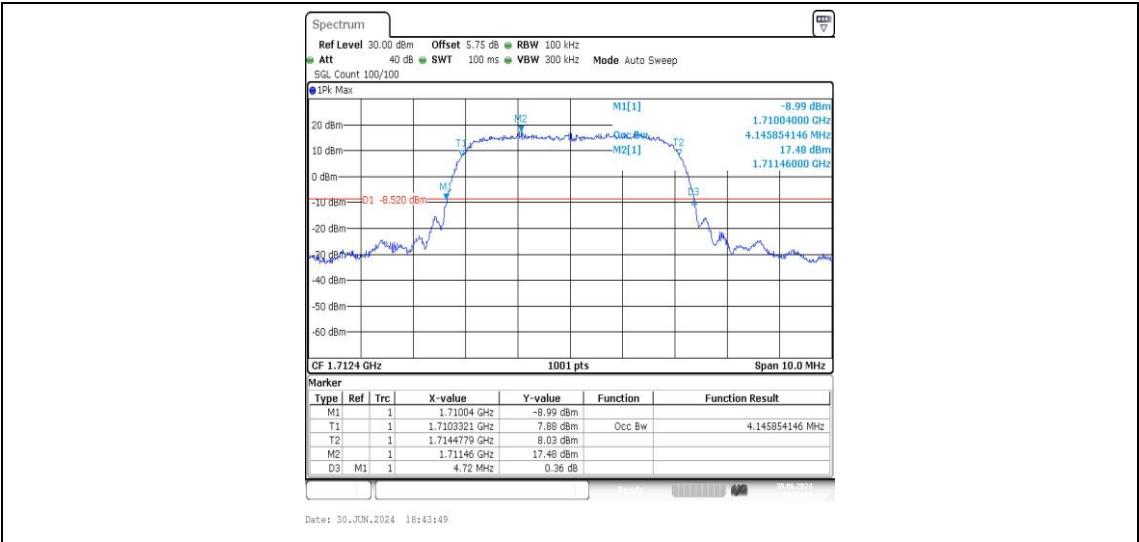
Band4-1312-3-PASS



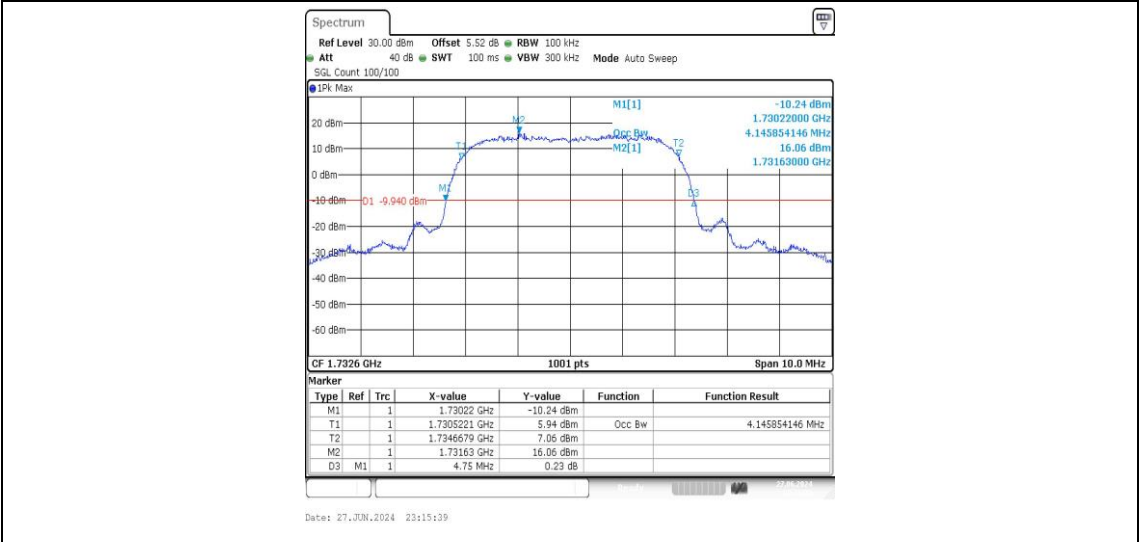
Band4-1413-3-PASS



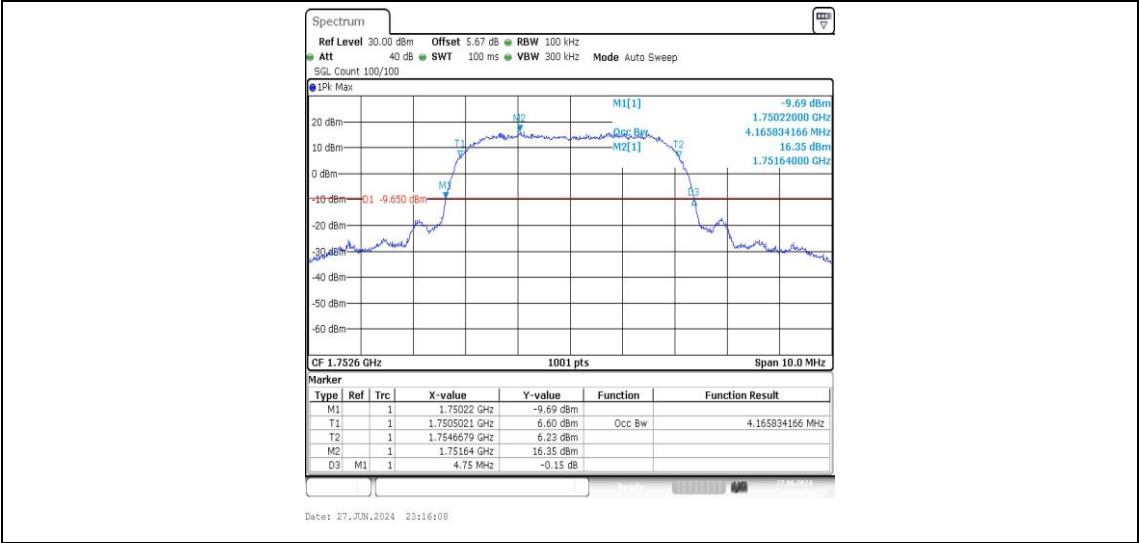
Band4-1513-3-PASS



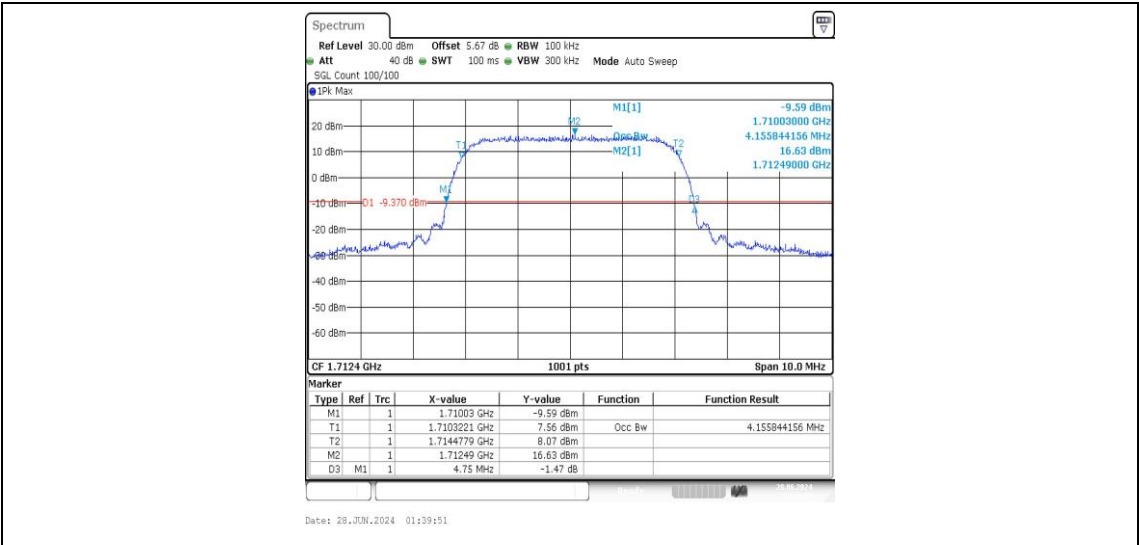
Band4-1312-4-PASS



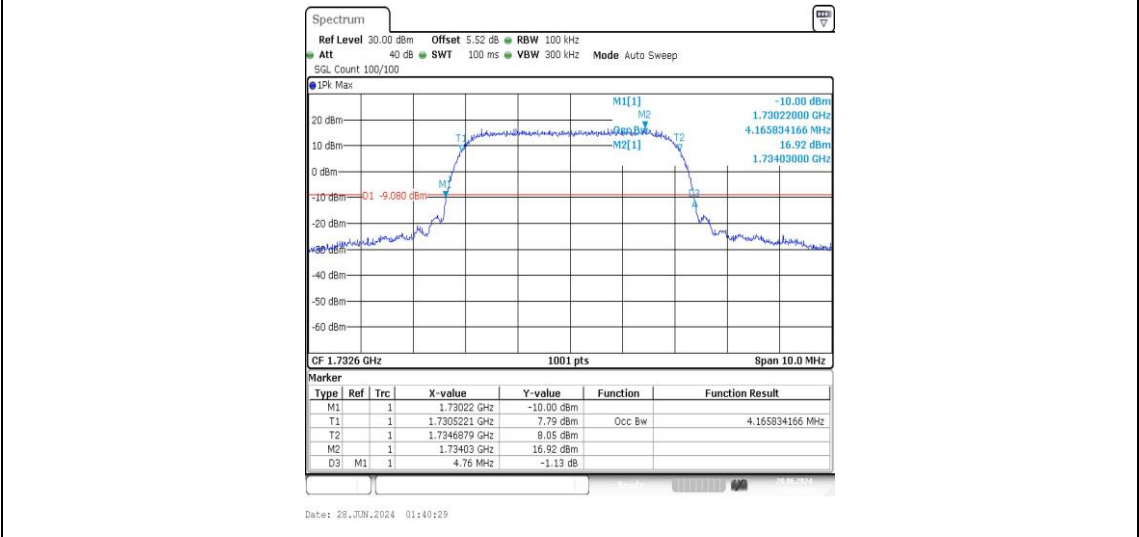
Band4-1413-4-PASS



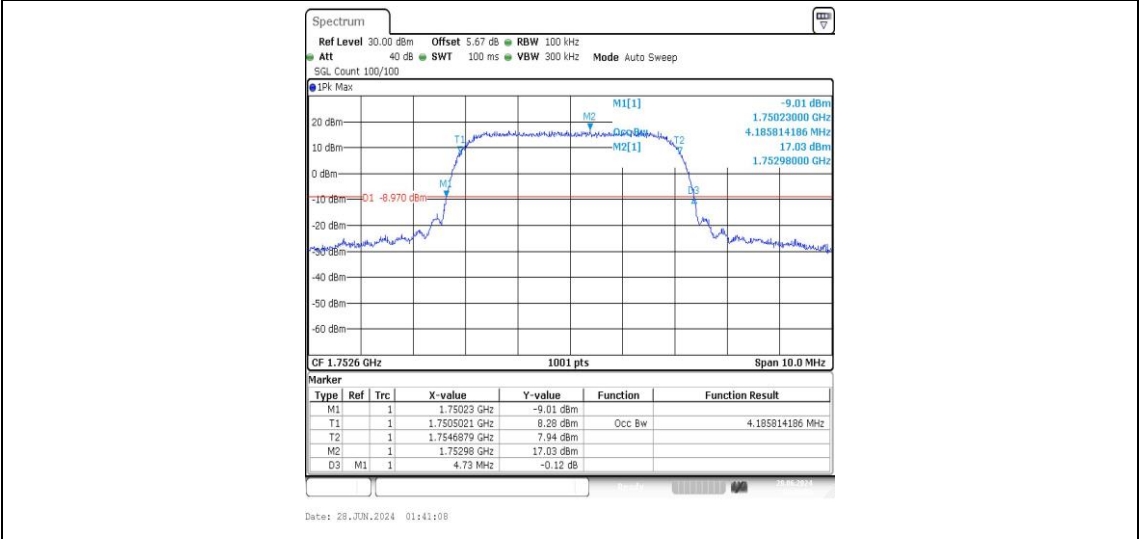
Band4-1513-4-PASS



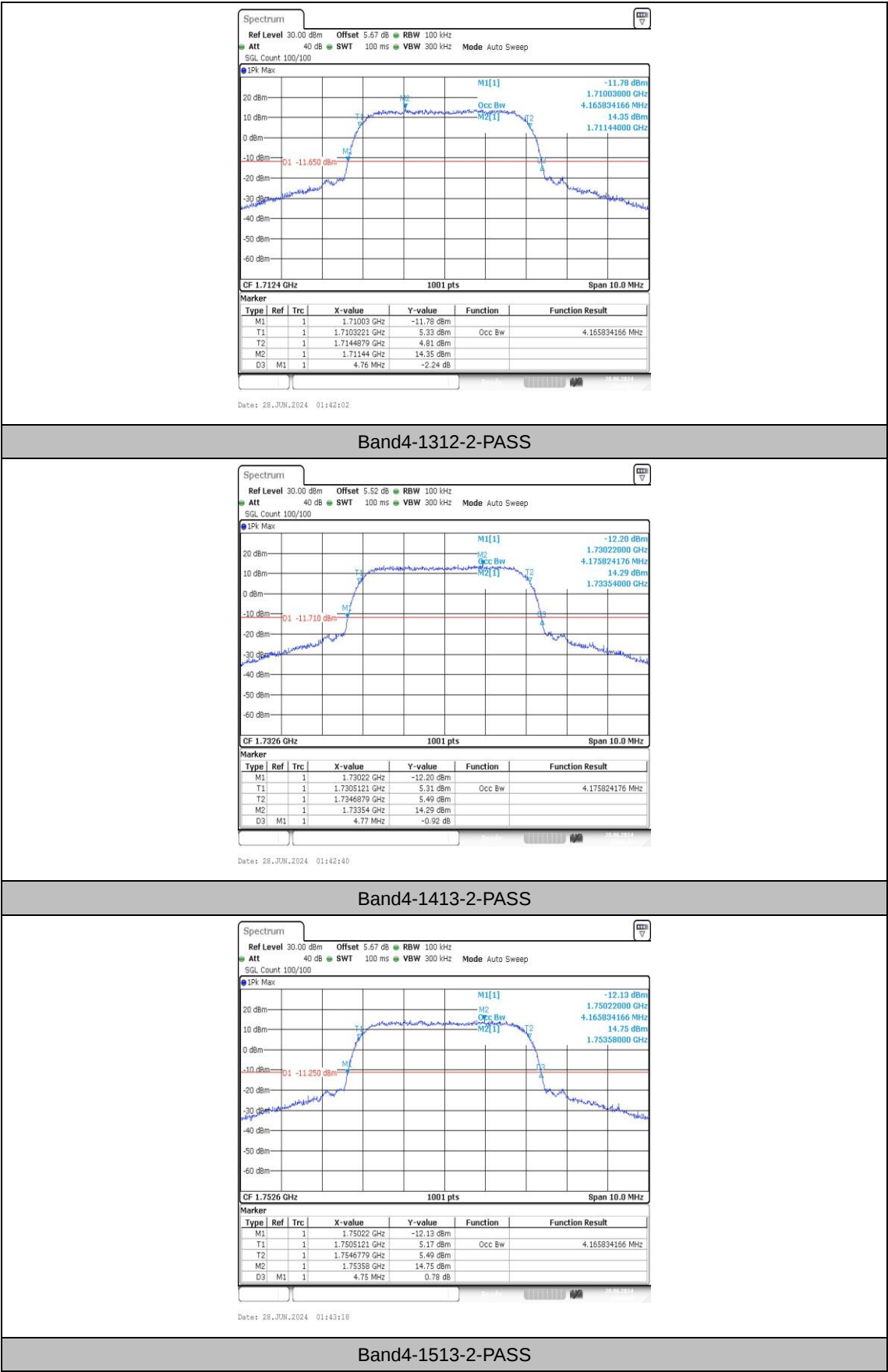
Band4-1312-1-PASS

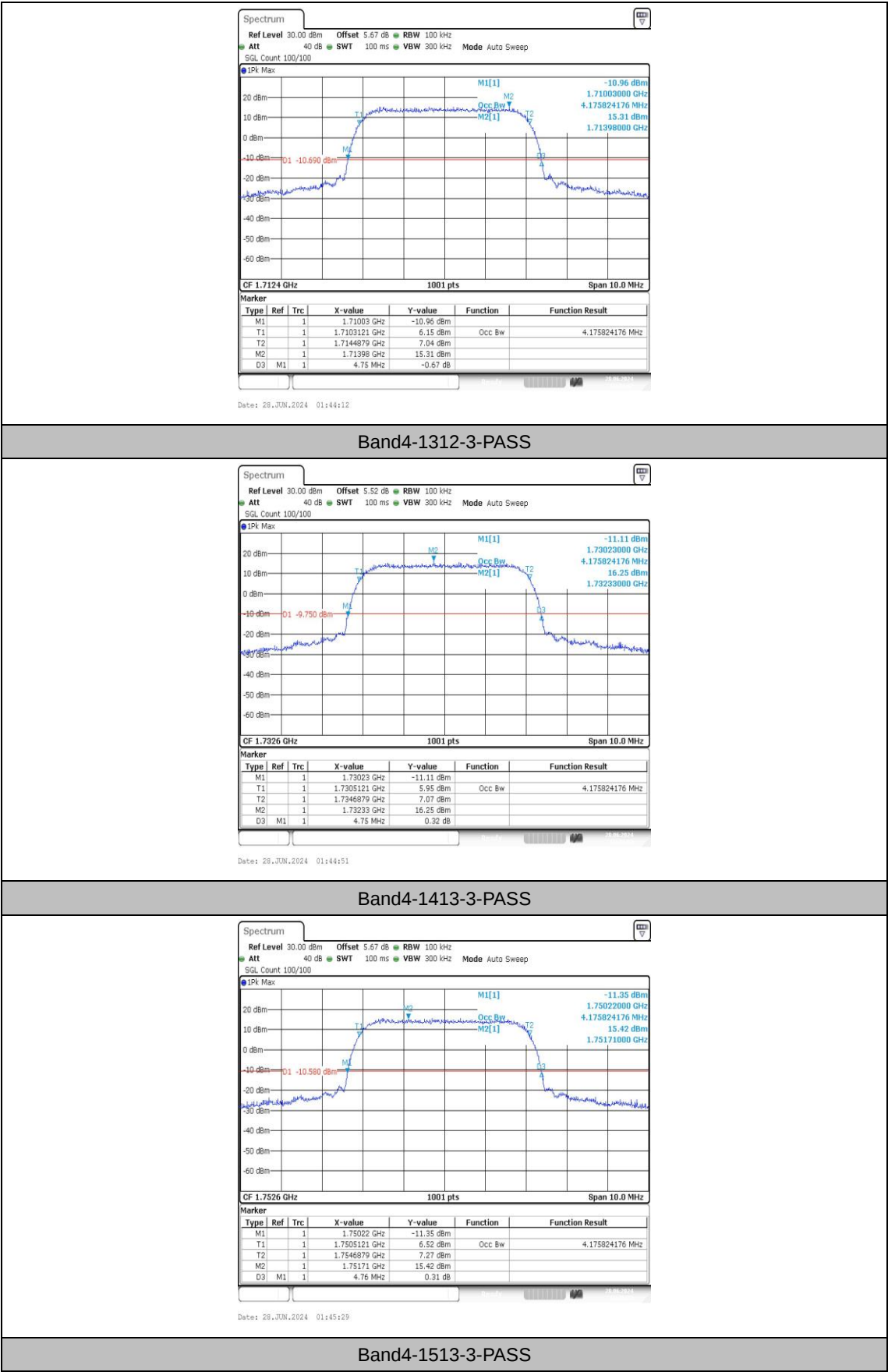


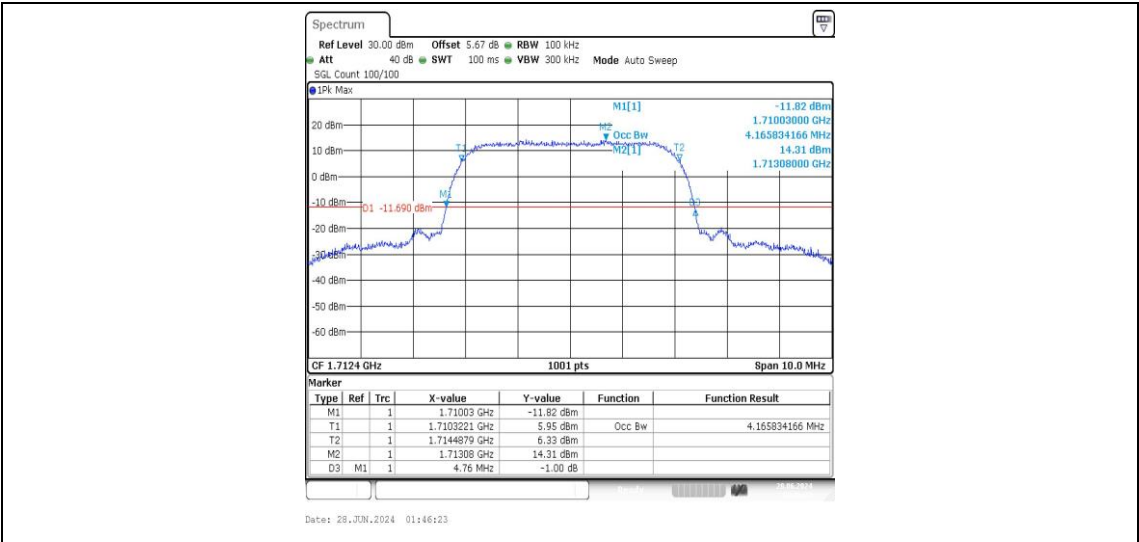
Band4-1413-1-PASS



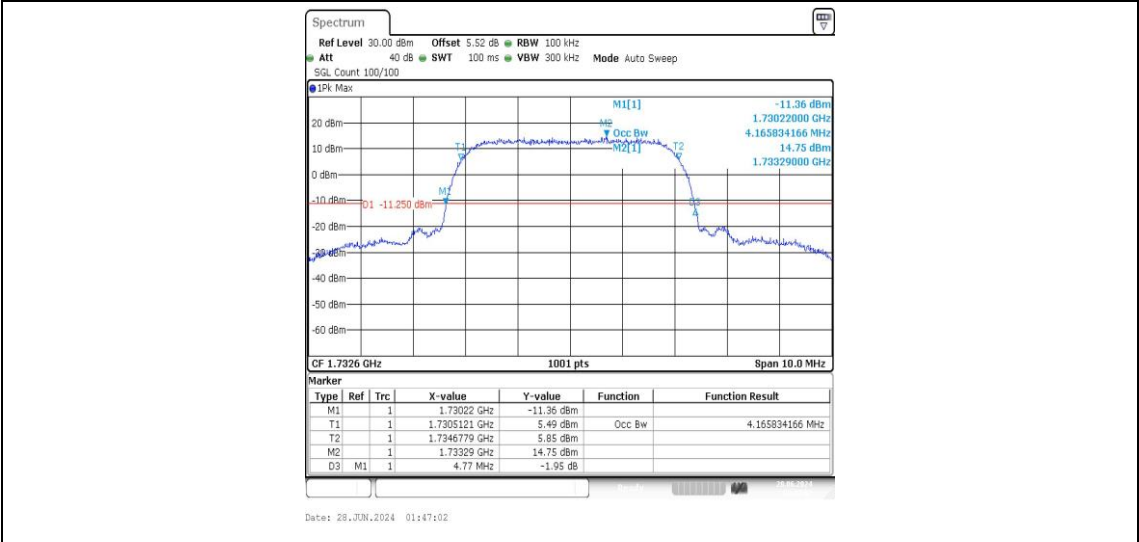
Band4-1513-1-PASS



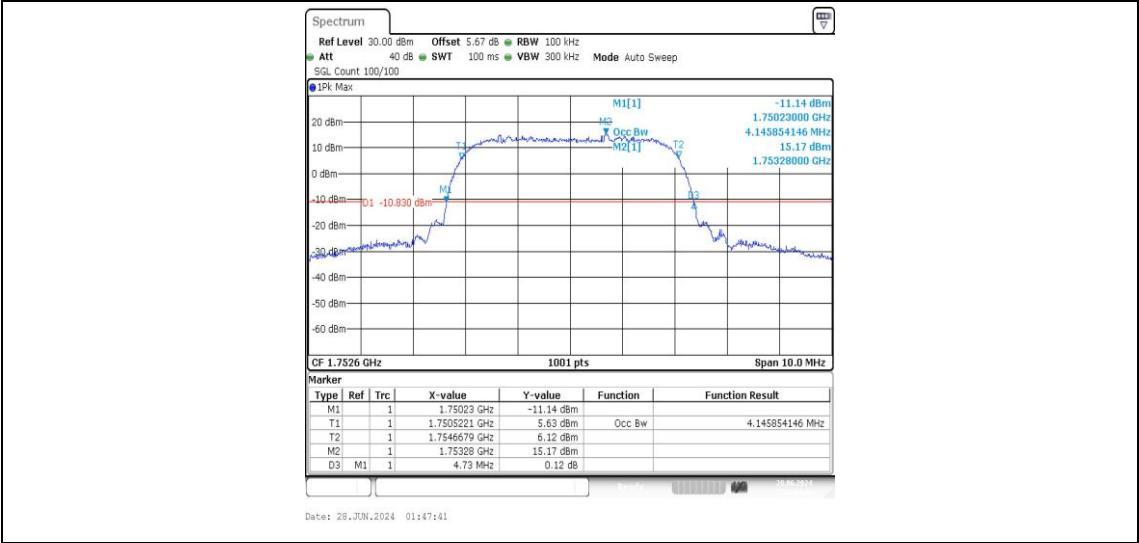




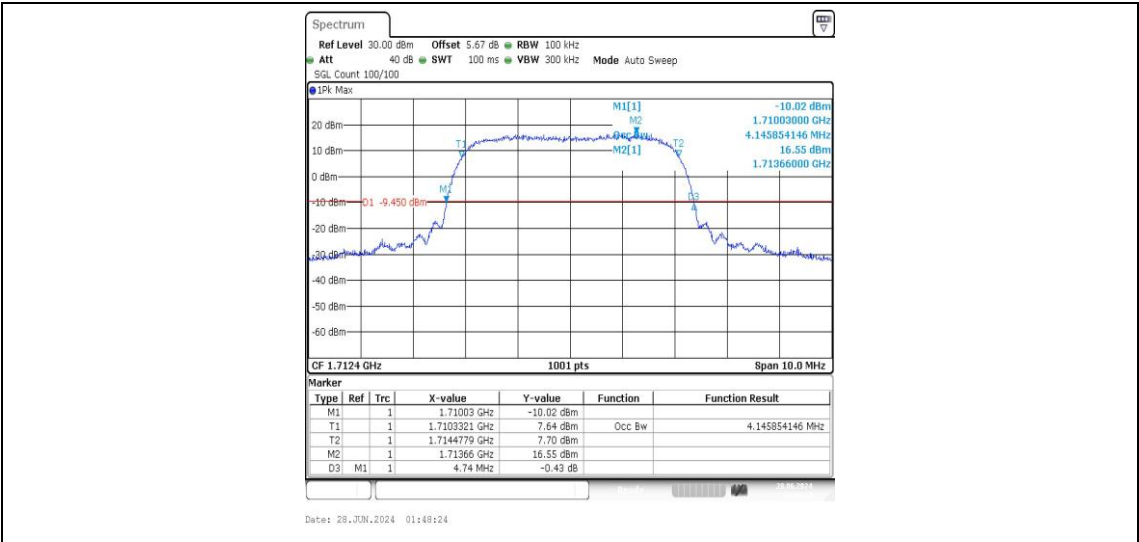
Band4-1312-4-PASS



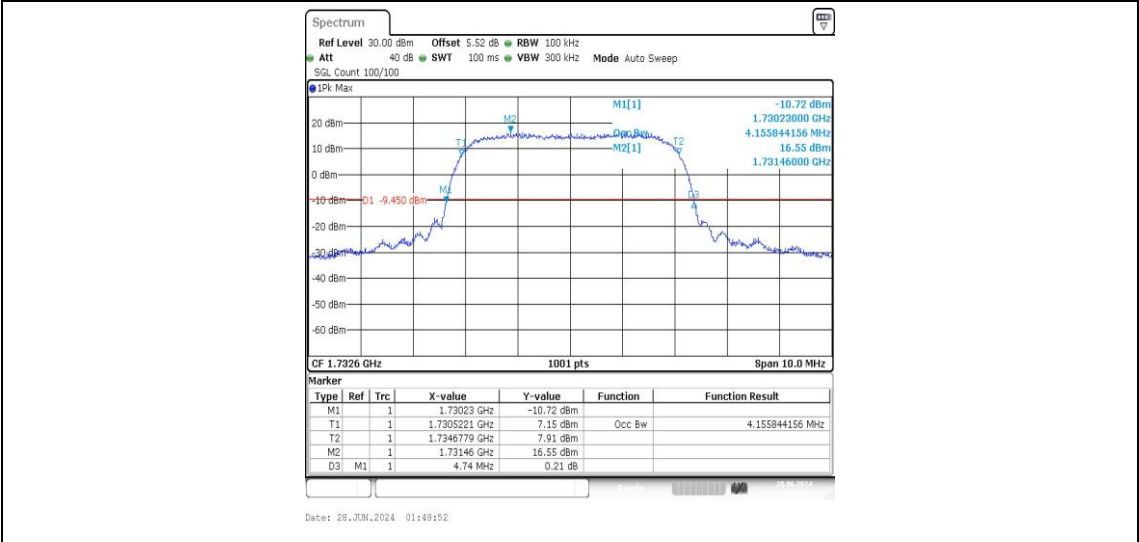
Band4-1413-4-PASS



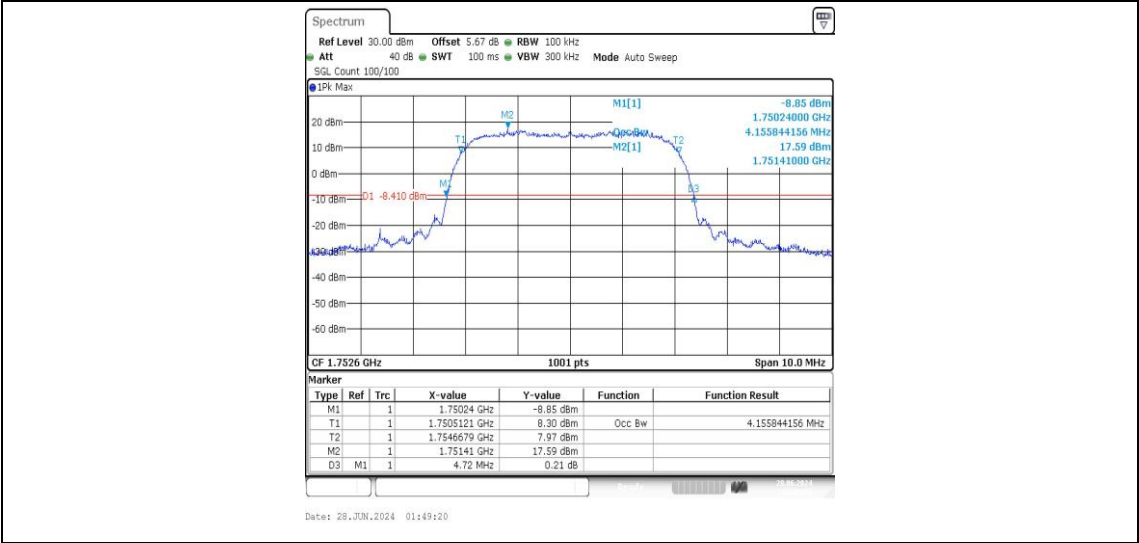
Band4-1513-4-PASS



Band4-1312-5-PASS



Band4-1413-5-PASS



Band4-1513-5-PASS

AppendixD:Band Edge

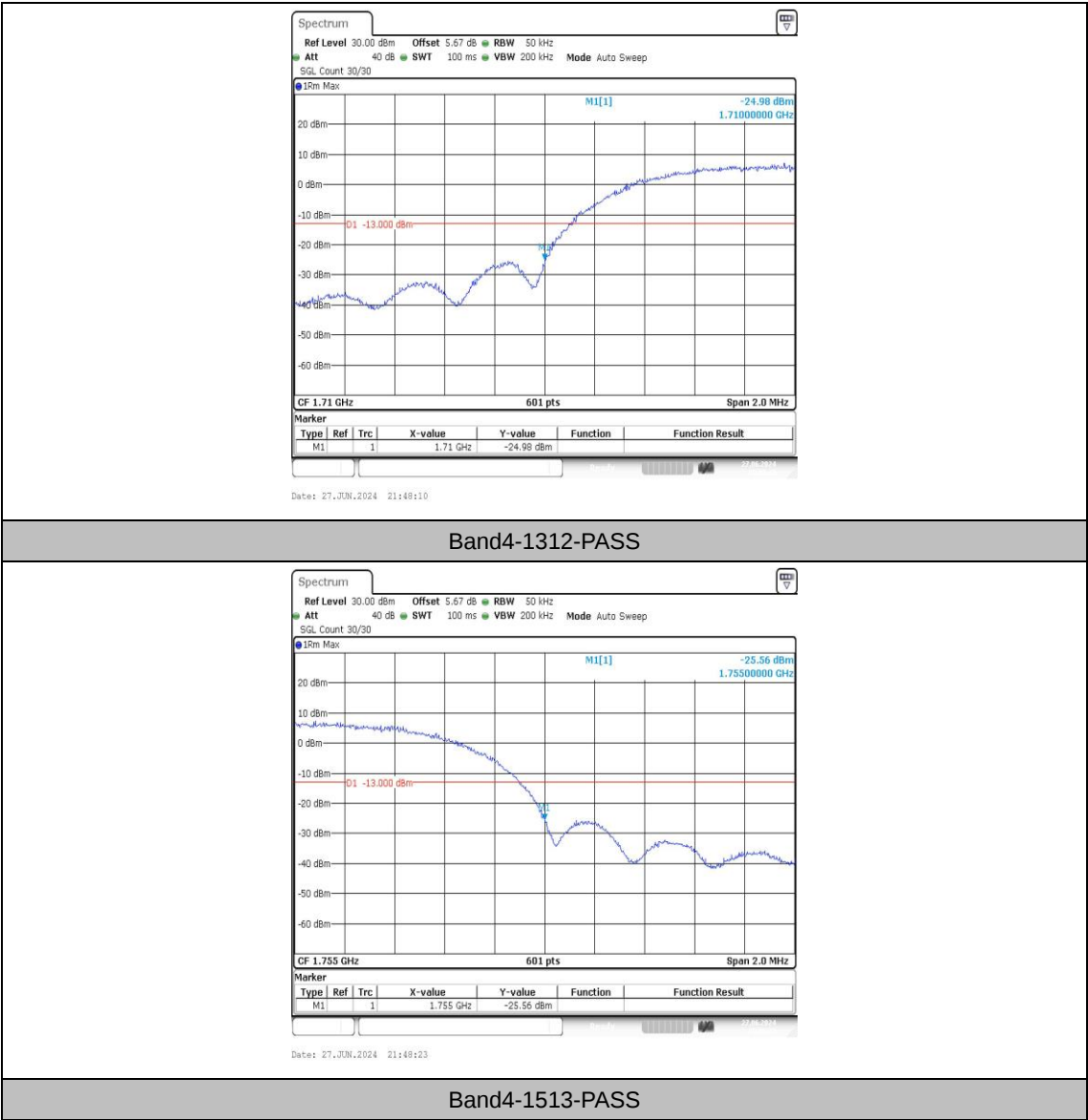
Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1710.00	-24.98	-13	PASS
Band4	1513	1755.00	-25.56	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1709.88	-25.70	-13	PASS
Band4	1513	1	1755.14	-25.37	-13	PASS
Band4	1312	2	1710.00	-25.69	-13	PASS
Band4	1513	2	1755.00	-25.11	-13	PASS
Band4	1312	3	1709.99	-24.72	-13	PASS
Band4	1513	3	1755.00	-23.57	-13	PASS
Band4	1312	4	1709.50	-53.79	-13	PASS
Band4	1513	4	1755.00	-22.91	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1709.85	-26.41	-13	PASS
Band4	1513	1	1755.14	-26.00	-13	PASS
Band4	1312	2	1710.00	-26.09	-13	PASS
Band4	1513	2	1755.01	-24.84	-13	PASS
Band4	1312	3	1710.00	-26.58	-13	PASS
Band4	1513	3	1755.00	-26.19	-13	PASS
Band4	1312	4	1710.00	-26.57	-13	PASS
Band4	1513	4	1755.00	-26.11	-13	PASS
Band4	1312	5	1710.00	-24.59	-13	PASS
Band4	1513	5	1755.00	-25.95	-13	PASS

Test Graphs





Band4-1312-1-PASS



Band4-1513-1-PASS



Band4-1312-2-PASS



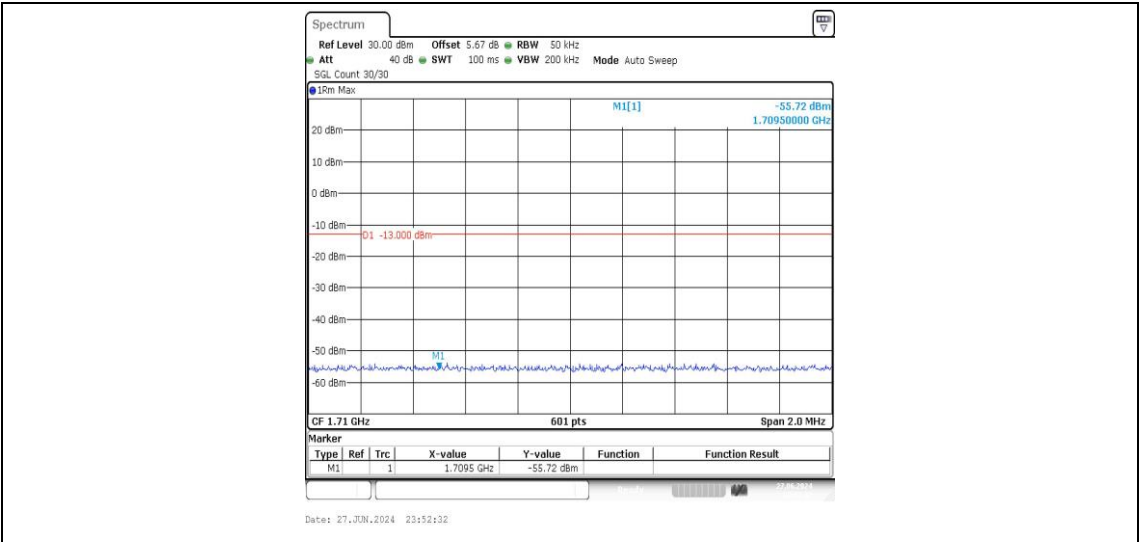
Band4-1513-2-PASS



Band4-1312-3-PASS



Band4-1513-3-PASS



Band4-1312-4-PASS



Band4-1513-4-PASS



Band4-1312-1-PASS



Band4-1513-1-PASS



Band4-1312-2-PASS



Band4-1513-2-PASS



Band4-1312-3-PASS



Band4-1513-3-PASS



Band4-1312-4-PASS



Band4-1513-4-PASS



Band4-1312-5-PASS

