

Appendix for WCDMA Band 4

Product Name: Smart Phone

Model No: G96

AppendixA: Average Power Output Data

Test Result

Normal mode:

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	22.62	30.00	PASS
Band4	1413	22.59	30.00	PASS
Band4	1513	22.64	30.00	PASS

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	21.64	30.00	PASS
Band4	1413	21.60	30.00	PASS
Band4	1513	21.63	30.00	PASS

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	19.60	30.00	PASS
Band4	1413	19.55	30.00	PASS
Band4	1513	19.60	30.00	PASS

Hotspot mode:

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	19.06	30.00	PASS
Band4	1413	18.99	30.00	PASS
Band4	1513	18.92	30.00	PASS

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	18.06	30.00	PASS
Band4	1413	18.05	30.00	PASS
Band4	1513	17.95	30.00	PASS

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	16.02	30.00	PASS
Band4	1413	16.00	30.00	PASS
Band4	1513	15.89	30.00	PASS

Receiver ON:

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	17.06	30.00	PASS
Band4	1413	17.06	30.00	PASS
Band4	1513	16.96	30.00	PASS

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	16.09	30.00	PASS
Band4	1413	16.01	30.00	PASS
Band4	1513	15.96	30.00	PASS

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	14.04	30.00	PASS
Band4	1413	13.98	30.00	PASS
Band4	1513	13.92	30.00	PASS

Sensor:

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	20.18	30.00	PASS
Band4	1413	20.04	30.00	PASS
Band4	1513	20.07	30.00	PASS

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	19.58	30.00	PASS
Band4	1413	19.26	30.00	PASS
Band4	1513	19.34	30.00	PASS

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band4	1312	17.18	30.00	PASS
Band4	1413	17.27	30.00	PASS
Band4	1513	17.50	30.00	PASS

AppendixB:Peak-to-Average Ratio

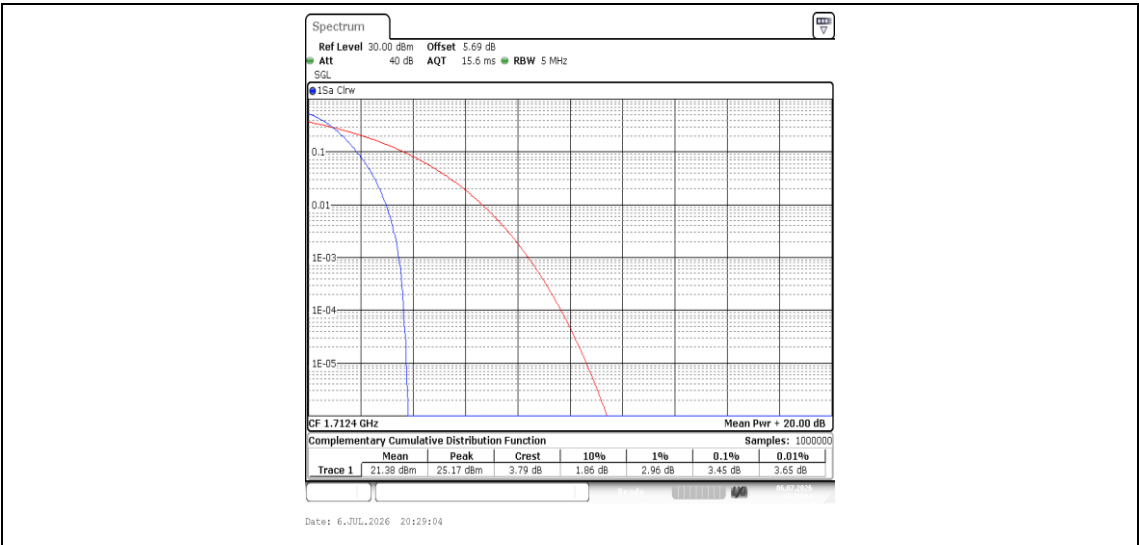
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.45	13	PASS
Band4	1413	3.45	13	PASS
Band4	1513	3.45	13	PASS

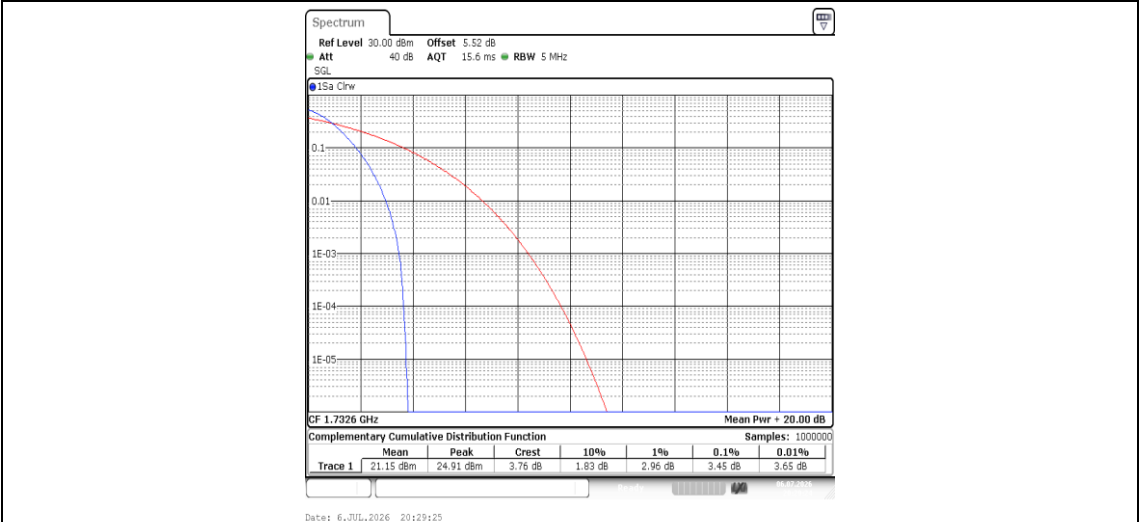
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	3.59	13	PASS
Band4	1413	3.54	13	PASS
Band4	1513	3.51	13	PASS

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	5.13	13	PASS
Band4	1413	5.07	13	PASS
Band4	1513	4.99	13	PASS

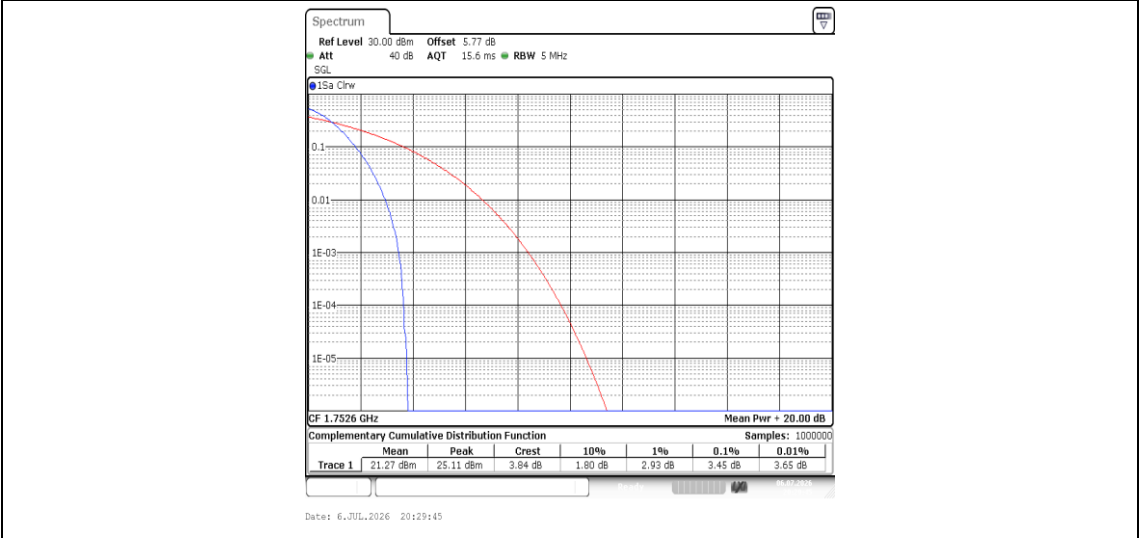
Test Graphs

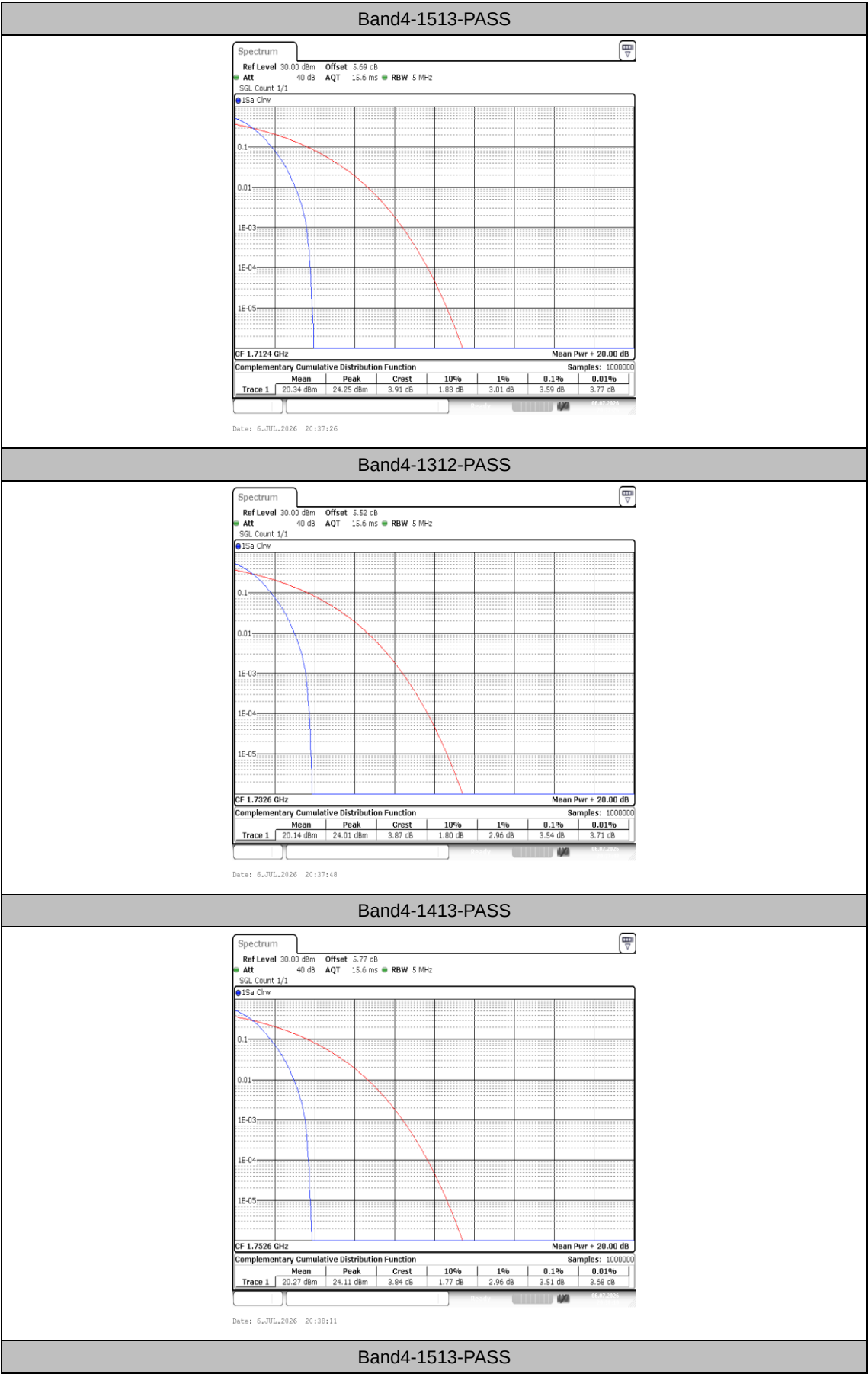


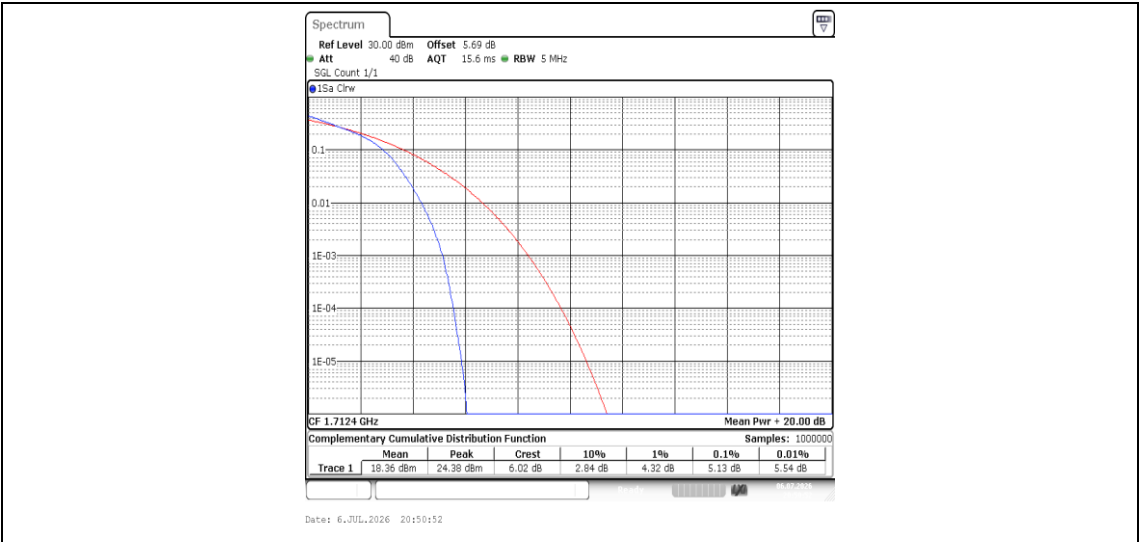
Band4-1312-PASS



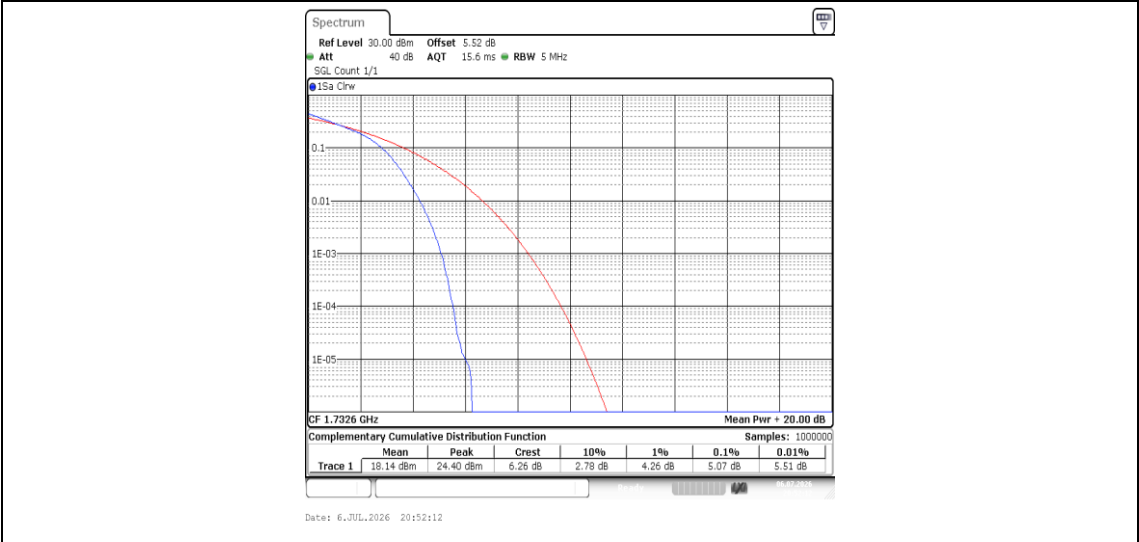
Band4-1413-PASS



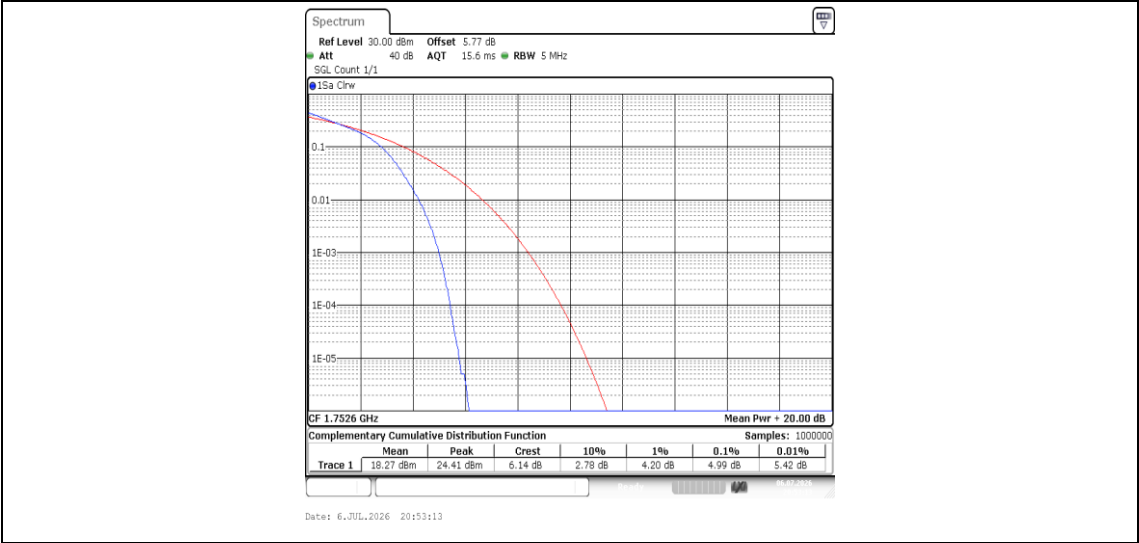




Band4-1312-PASS



Band4-1413-PASS



Band4-1513-PASS

AppendixC:26dB Bandwidth andOccupied Bandwidth

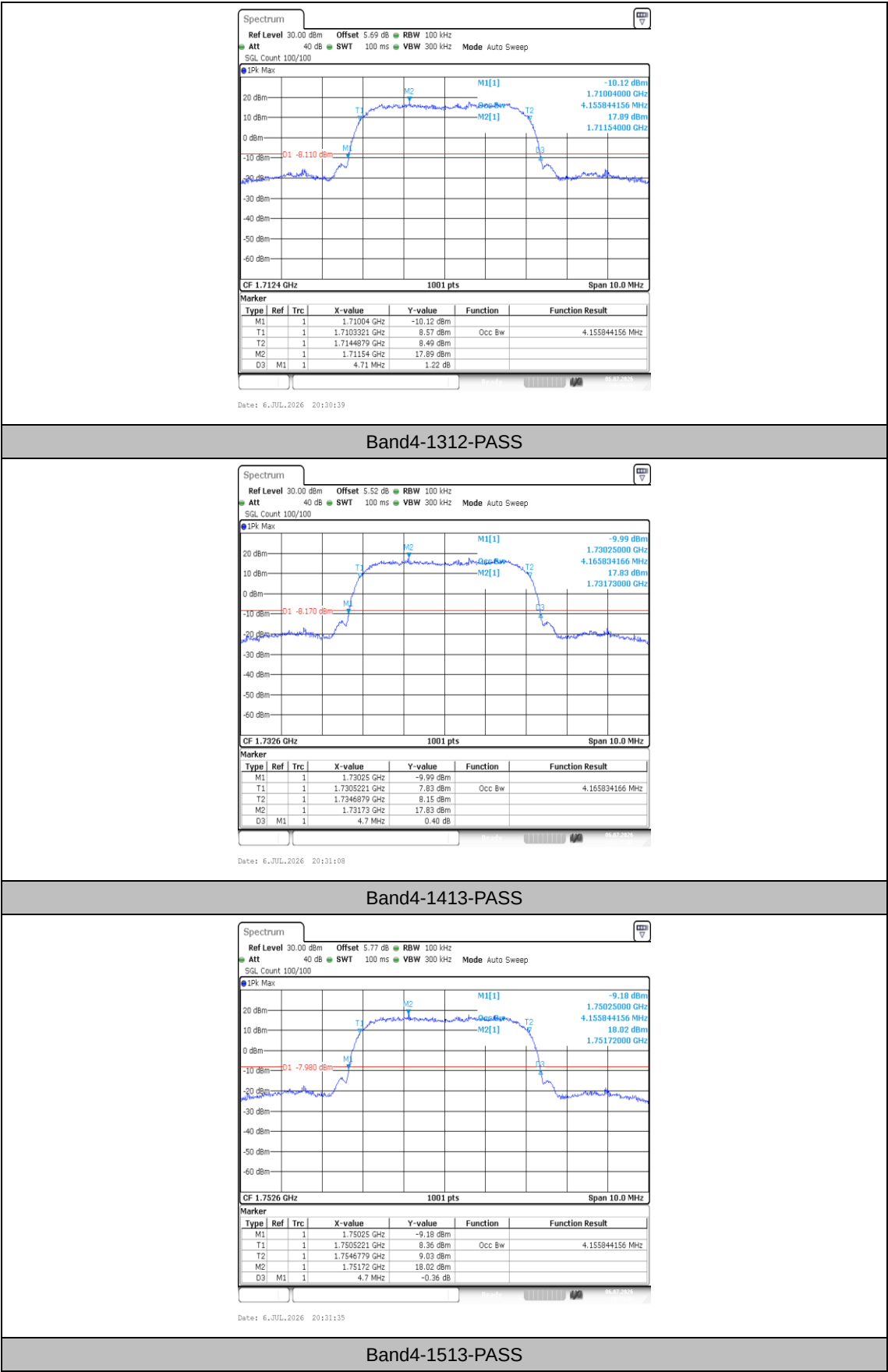
Test Result

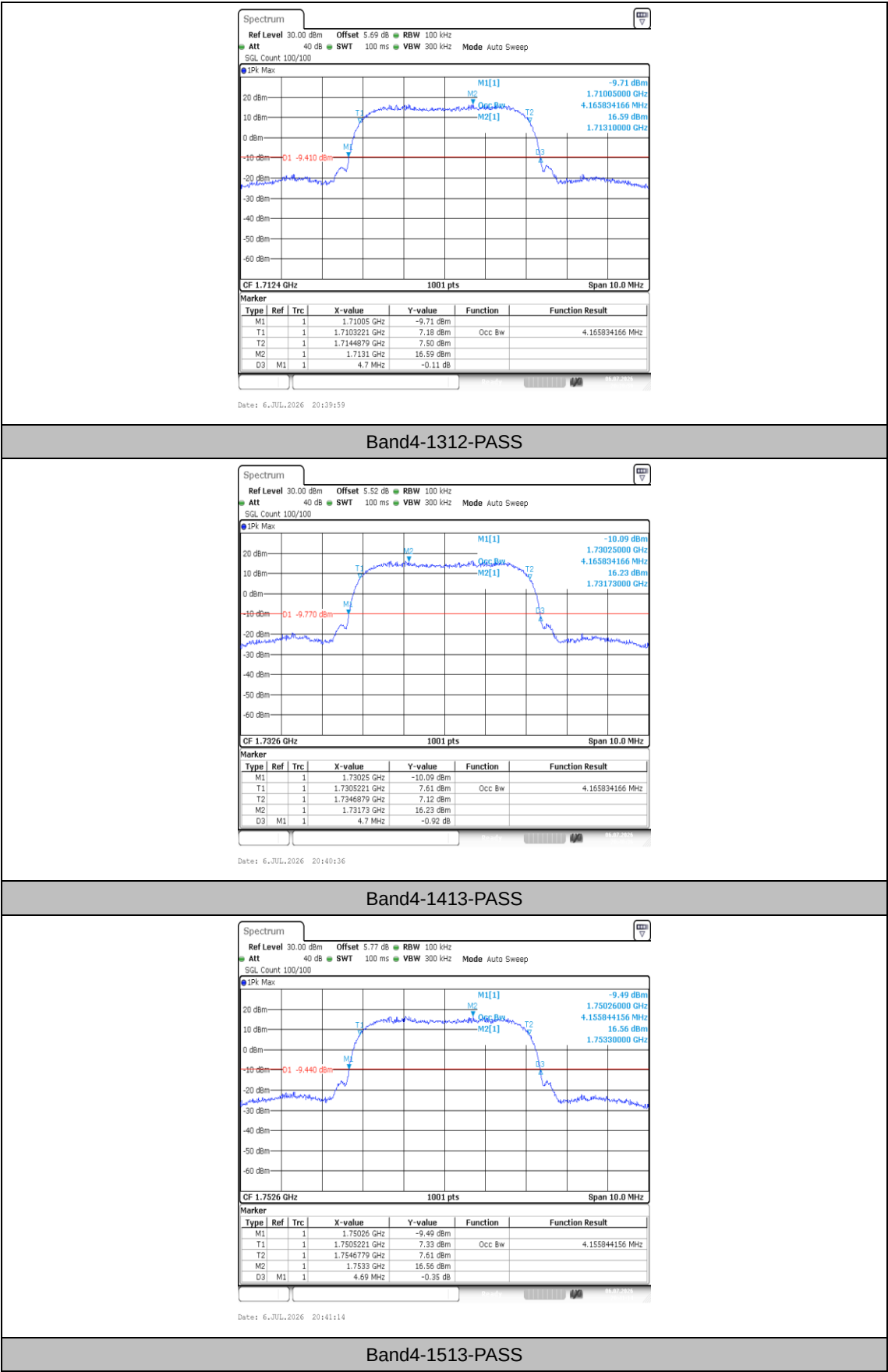
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.1558	4.71	---	PASS
Band4	1413	4.1658	4.70	---	PASS
Band4	1513	4.1558	4.70	---	PASS

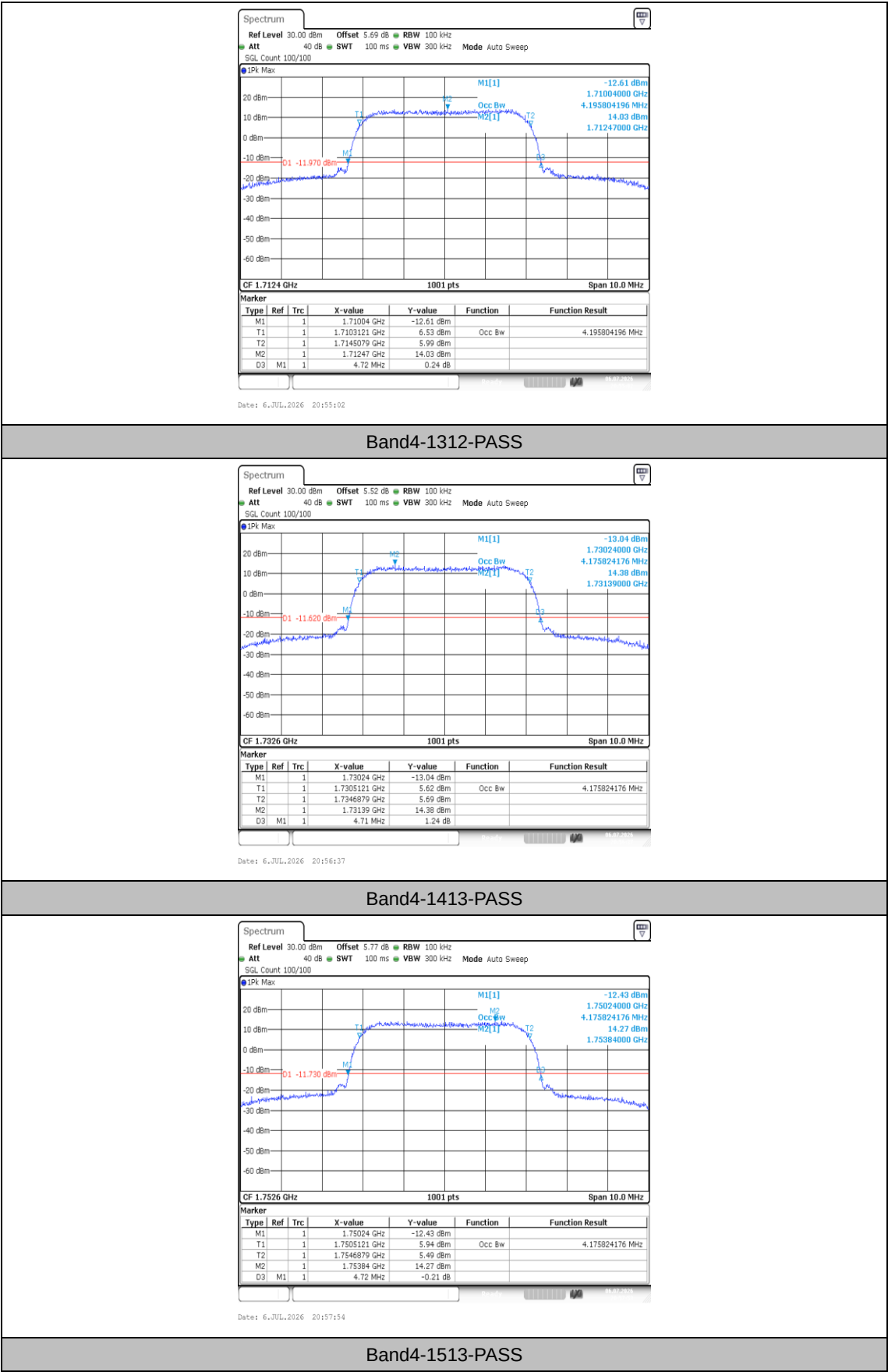
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.1658	4.70	---	PASS
Band4	1413	4.1658	4.70	---	PASS
Band4	1513	4.1558	4.69	---	PASS

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.1958	4.72	---	PASS
Band4	1413	4.1758	4.71	---	PASS
Band4	1513	4.1758	4.72	---	PASS

Test Graphs







AppendixD:Band Edge

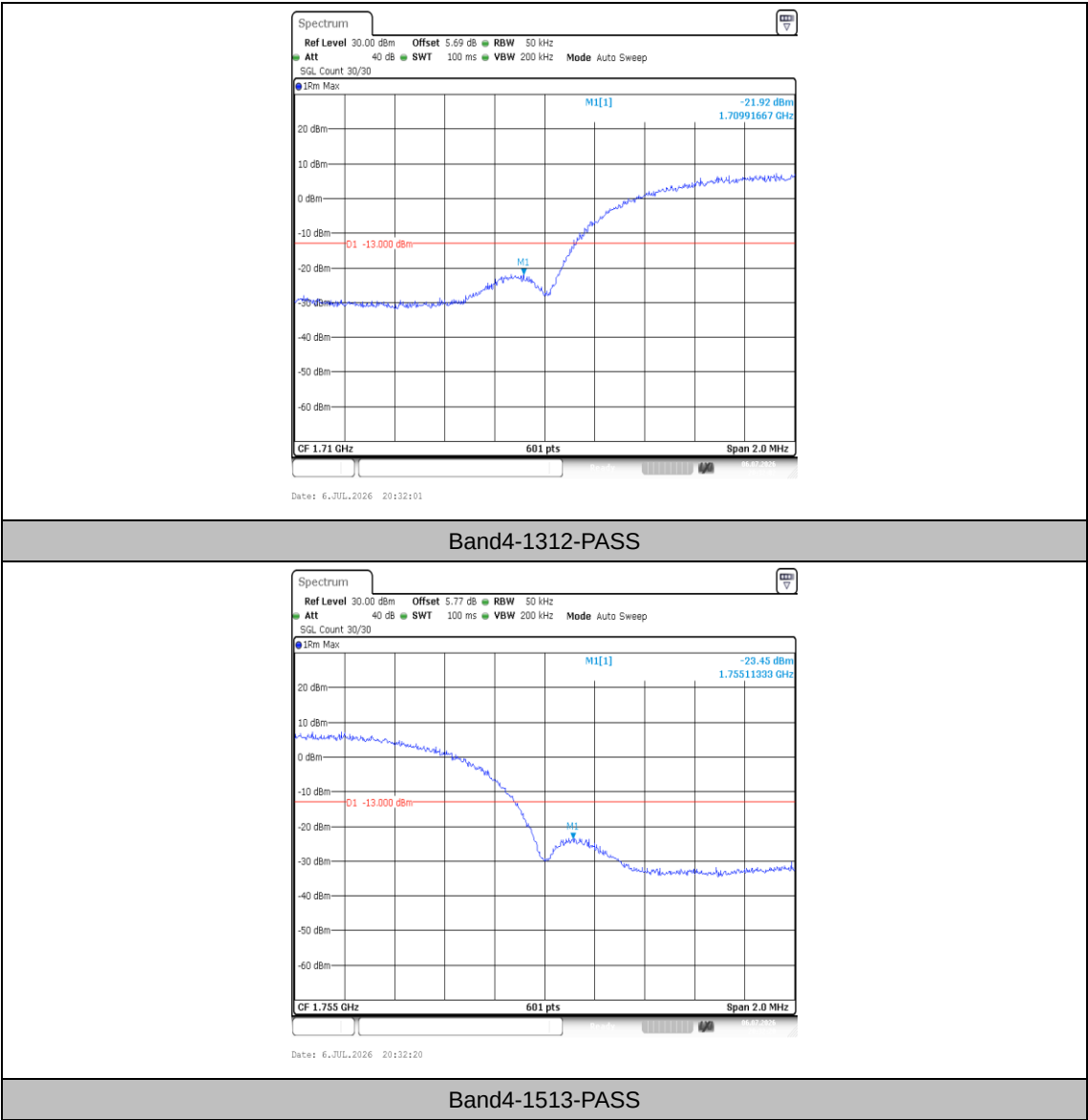
Test Result

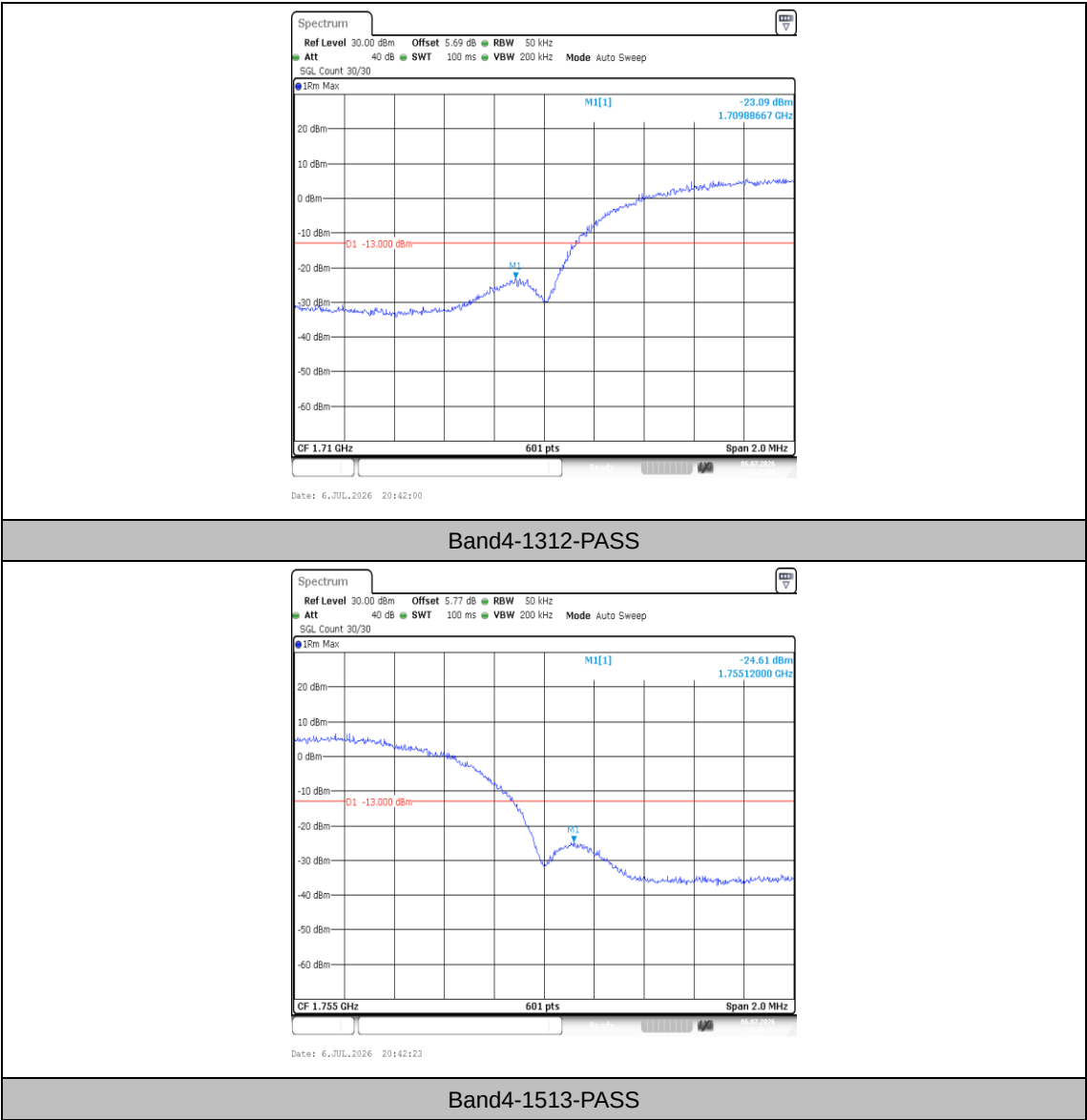
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.92	-21.92	-13	PASS
Band4	1513	1755.11	-23.45	-13	PASS

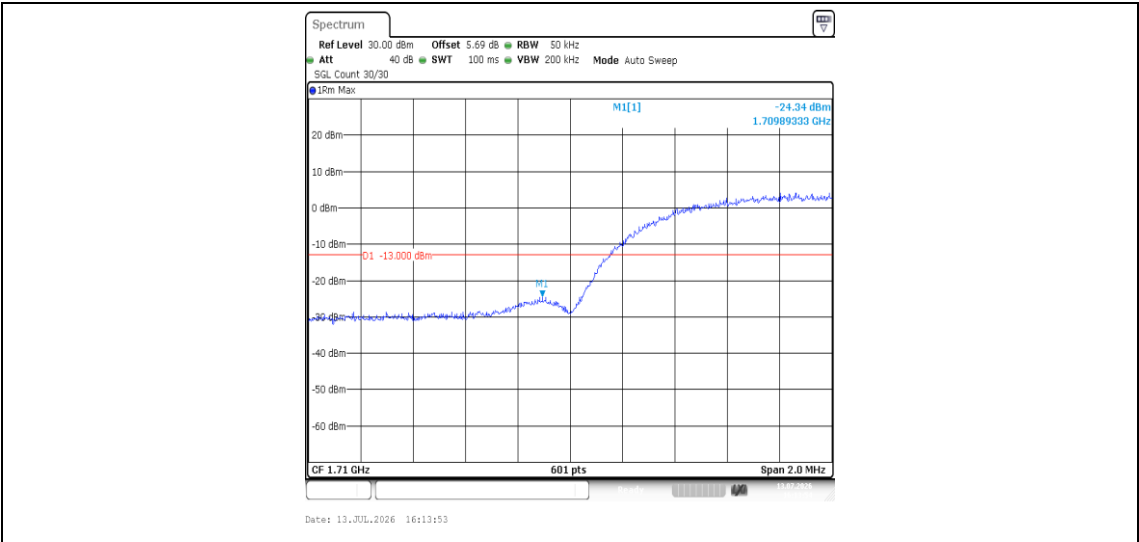
Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.89	-23.09	-13	PASS
Band4	1513	1755.12	-24.61	-13	PASS

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.89	-24.34	-13	PASS
Band4	1513	1755.10	-26.93	-13	PASS

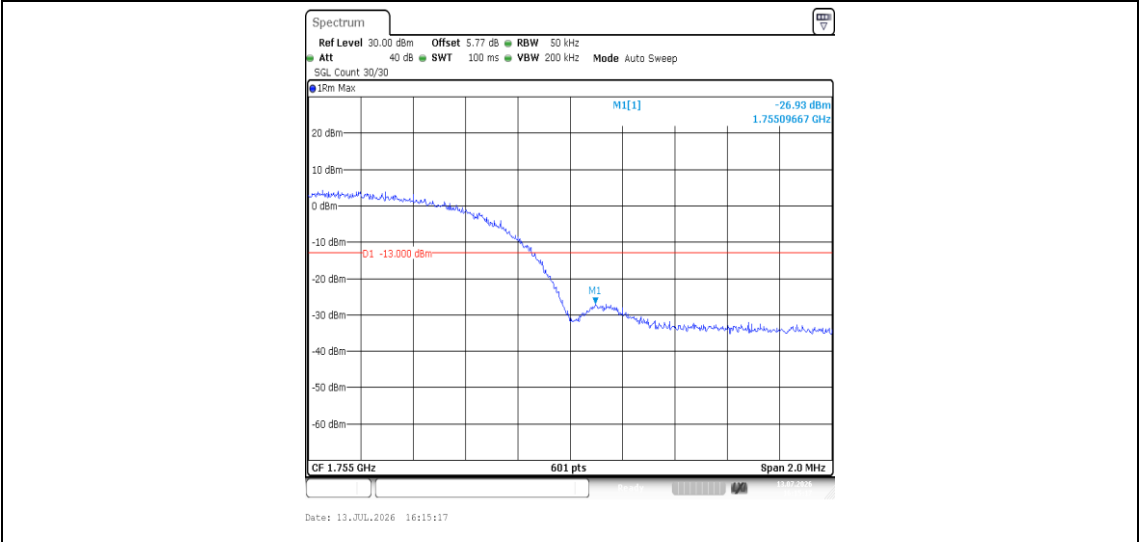
Test Graphs







Band4-1312-PASS



Band4-1513-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	-68.85	-43	PASS
Band4	1312	0.15~30MHz	24.87	-64.51	-33	PASS
Band4	1312	30~1000MHz	982.3	-49.76	-13	PASS
Band4	1312	1000~30000MHz	6539	-40.65	-13	PASS
Band4	1312	3000~20000MHz	6216.9	-37.48	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-68.26	-43	PASS
Band4	1413	0.15~30MHz	23.25	-65.35	-33	PASS
Band4	1413	30~1000MHz	995.98	-49.87	-13	PASS
Band4	1413	1000~30000MHz	6620.2	-40.74	-13	PASS
Band4	1413	3000~20000MHz	6587.5	-37.51	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-70.8	-43	PASS
Band4	1513	0.15~30MHz	26.29	-64.52	-33	PASS
Band4	1513	30~1000MHz	928.37	-49.53	-13	PASS
Band4	1513	1000~30000MHz	6834.8	-40.65	-13	PASS
Band4	1513	3000~20000MHz	6514.4	-37.34	-13	PASS

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.01	-68.11	-43	PASS
Band4	1312	0.15~30MHz	25.11	-63.67	-33	PASS
Band4	1312	30~1000MHz	986.86	-49.87	-13	PASS
Band4	1312	1000~30000MHz	6530.3	-40.39	-13	PASS
Band4	1312	3000~20000MHz	6859.5	-37.63	-13	PASS
Band4	1413	0.009~0.15MHz	0.01	-69.09	-43	PASS
Band4	1413	0.15~30MHz	24.06	-65.41	-33	PASS
Band4	1413	30~1000MHz	921.49	-49.84	-13	PASS
Band4	1413	1000~30000MHz	6515.8	-40.27	-13	PASS
Band4	1413	3000~20000MHz	6845.9	-37.23	-13	PASS
Band4	1513	0.009~0.15MHz	0.02	-69.1	-43	PASS
Band4	1513	0.15~30MHz	25.15	-64.9	-33	PASS
Band4	1513	30~1000MHz	970.18	-49.62	-13	PASS
Band4	1513	1000~30000MHz	6544.8	-40.62	-13	PASS
Band4	1513	3000~20000MHz	6536.5	-37.38	-13	PASS

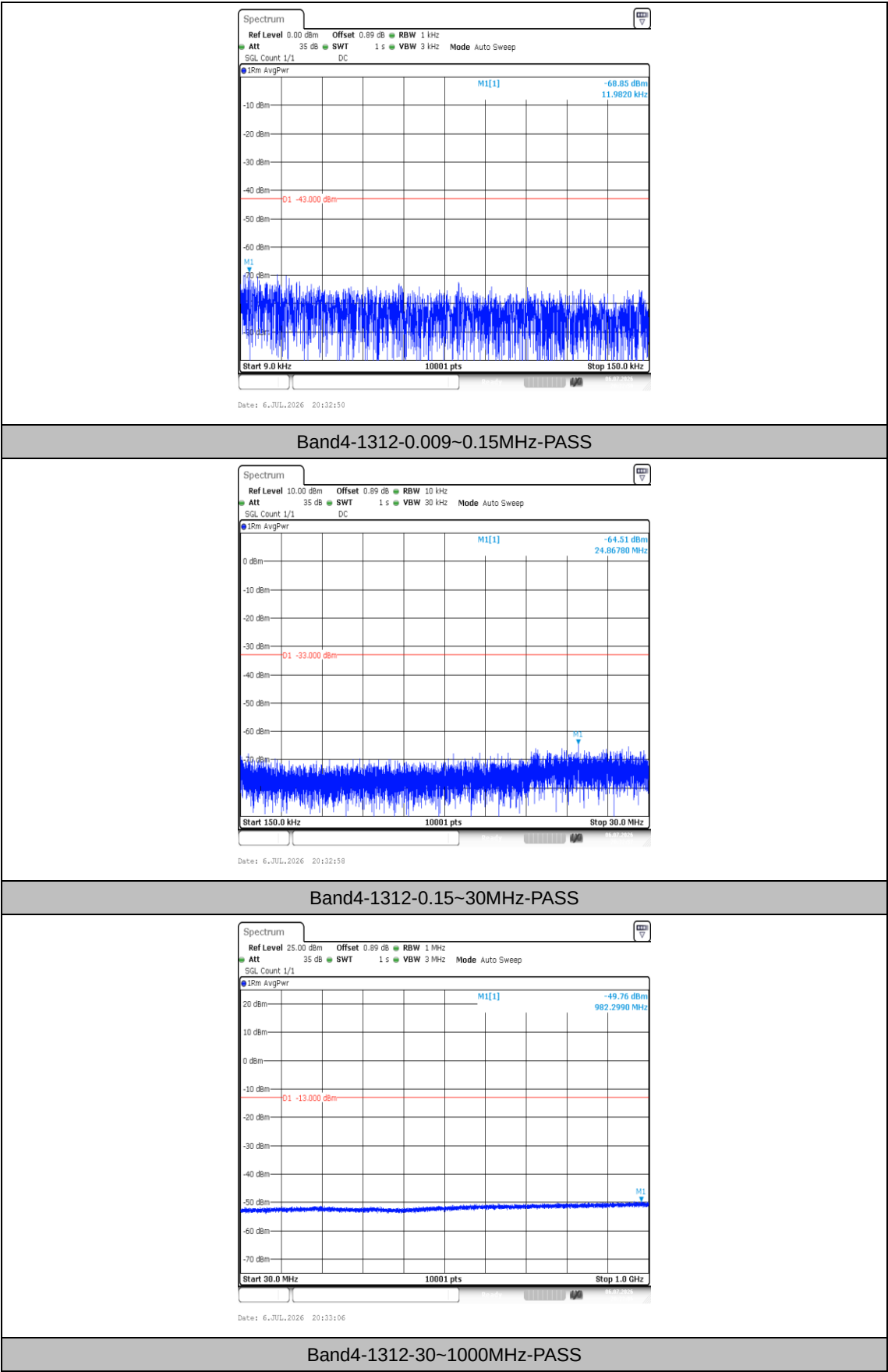
Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
------	---------	-----------------------	-----------------	--------------	-------------	---------

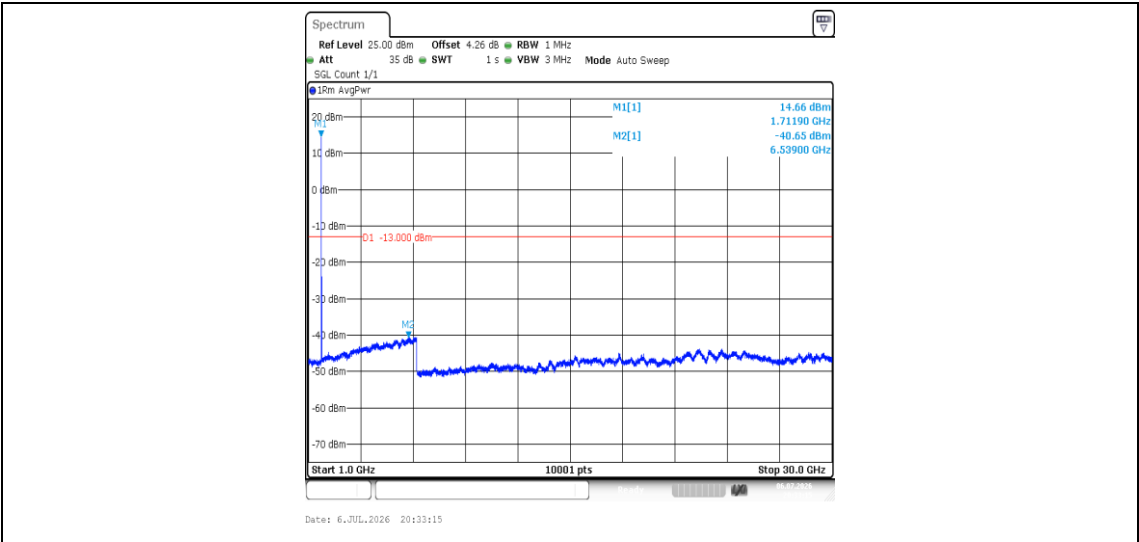
Waltek Testing Group (Shenzhen) Co., Ltd.

[Http://www.waltek.com.cn](http://www.waltek.com.cn)

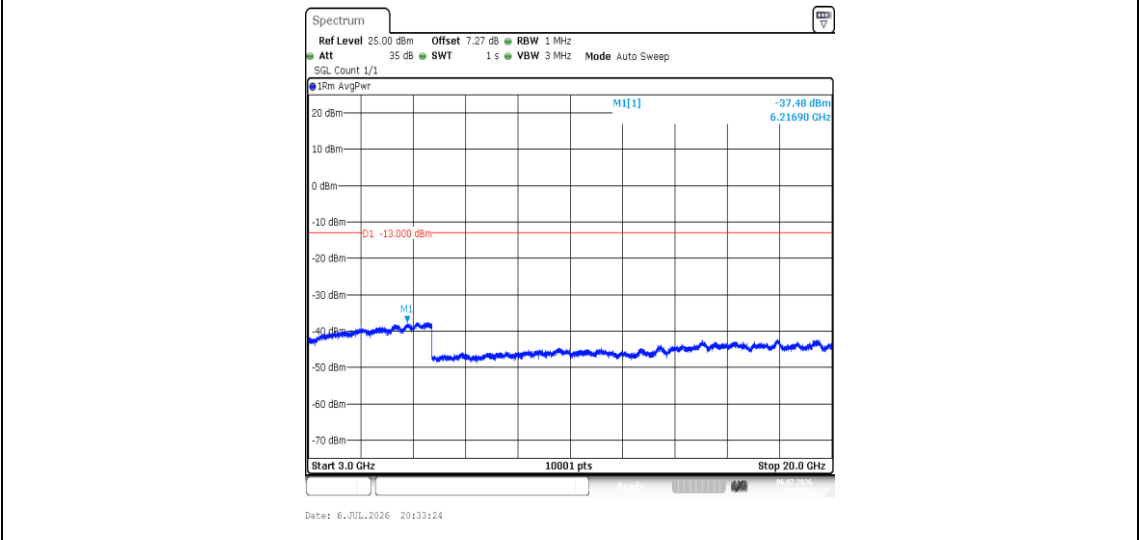
Band4	1312	0.009~0.15MHz	0.02	-71.22	-43	PASS
Band4	1312	0.15~30MHz	28.37	-64.28	-33	PASS
Band4	1312	30~1000MHz	995.39	-49.74	-13	PASS
Band4	1312	1000~30000MHz	6843.5	-40.06	-13	PASS
Band4	1312	3000~20000MHz	6851	-37.55	-13	PASS
Band4	1413	0.009~0.15MHz	0.02	-69.99	-43	PASS
Band4	1413	0.15~30MHz	26.17	-65.84	-33	PASS
Band4	1413	30~1000MHz	939.43	-49.73	-13	PASS
Band4	1413	1000~30000MHz	6823.2	-40.57	-13	PASS
Band4	1413	3000~20000MHz	6896.9	-37.46	-13	PASS
Band4	1513	0.009~0.15MHz	0.01	-69.08	-43	PASS
Band4	1513	0.15~30MHz	24.84	-65.62	-33	PASS
Band4	1513	30~1000MHz	979.78	-49.57	-13	PASS
Band4	1513	1000~30000MHz	6530.3	-40.36	-13	PASS
Band4	1513	3000~20000MHz	6818.7	-37.47	-13	PASS

Test Graphs

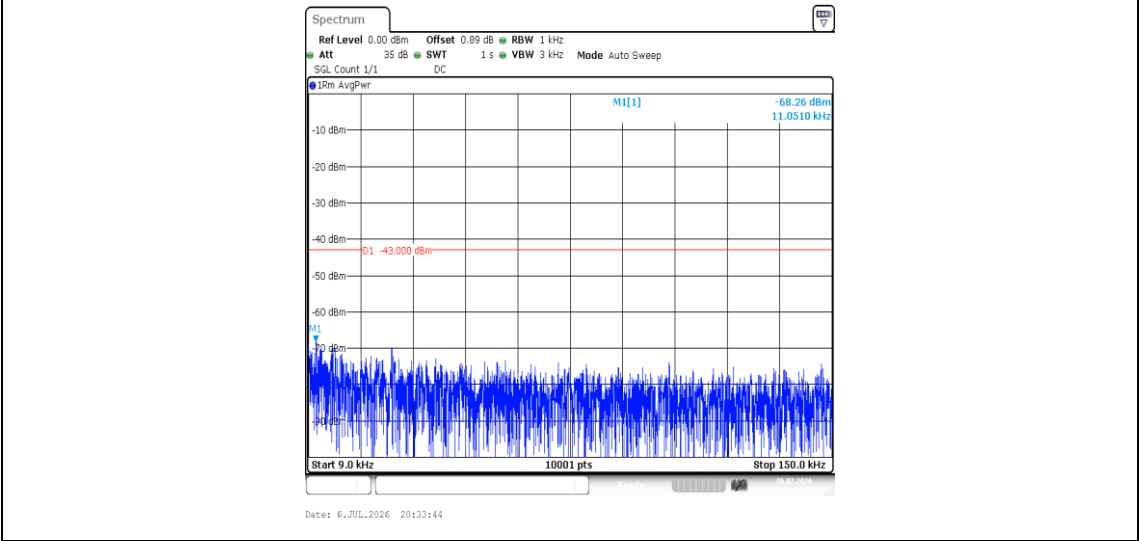




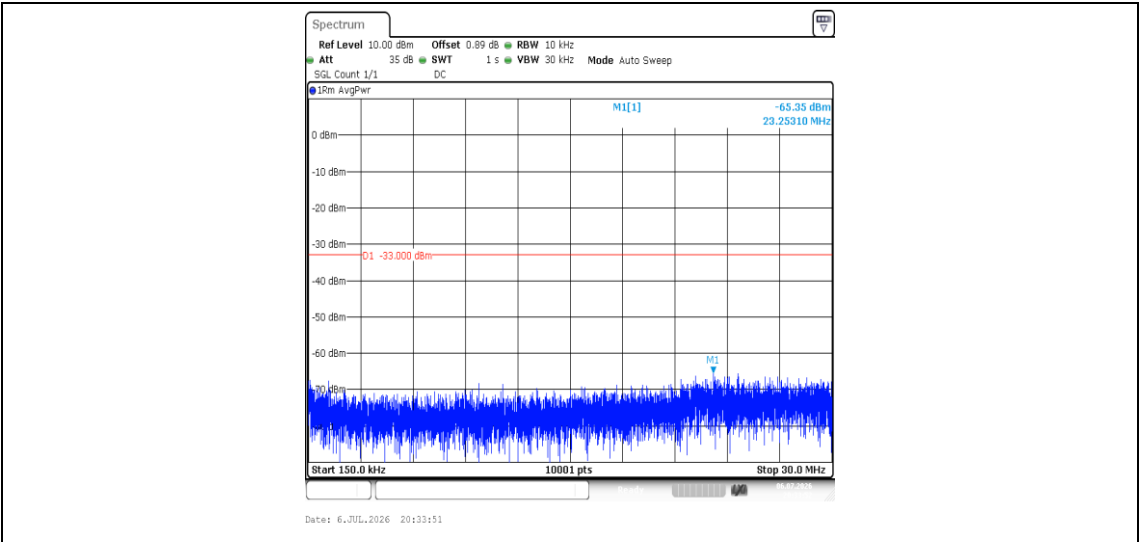
Band4-1312-1000~30000MHz-PASS



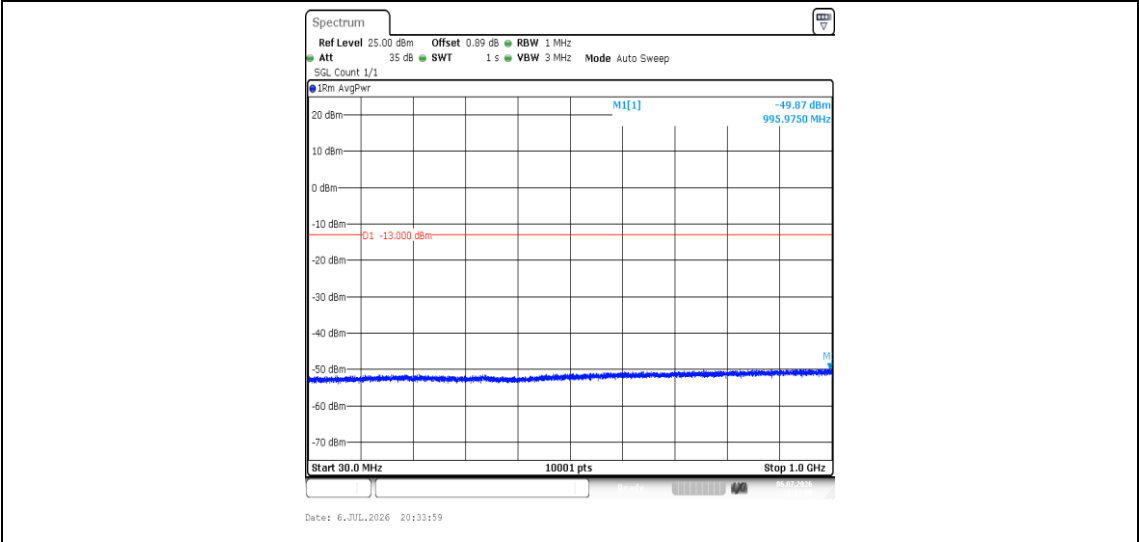
Band4-1312-3000~20000MHz-PASS



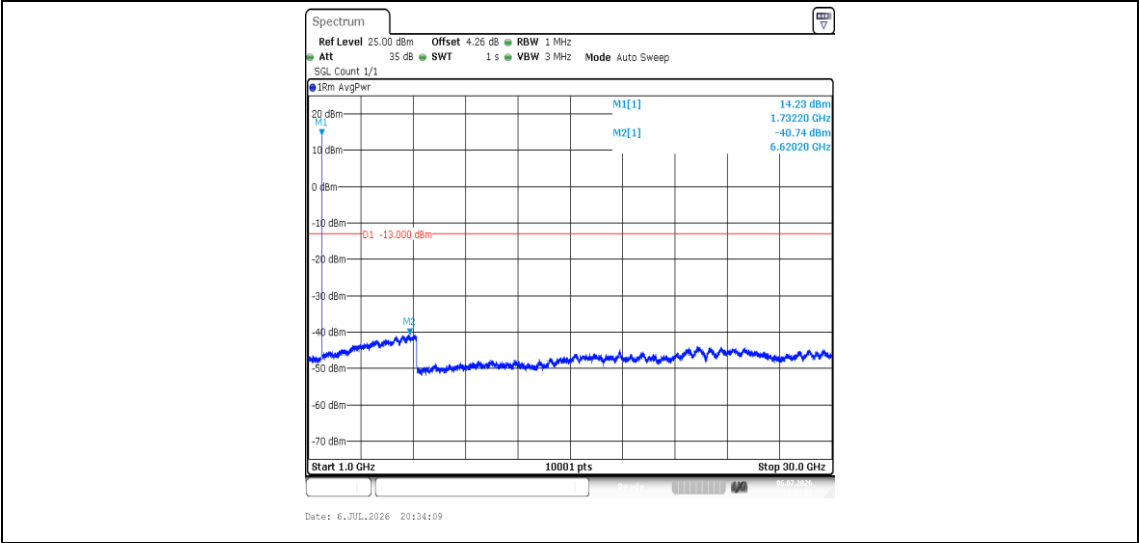
Band4-1413-0.009~0.15MHz-PASS



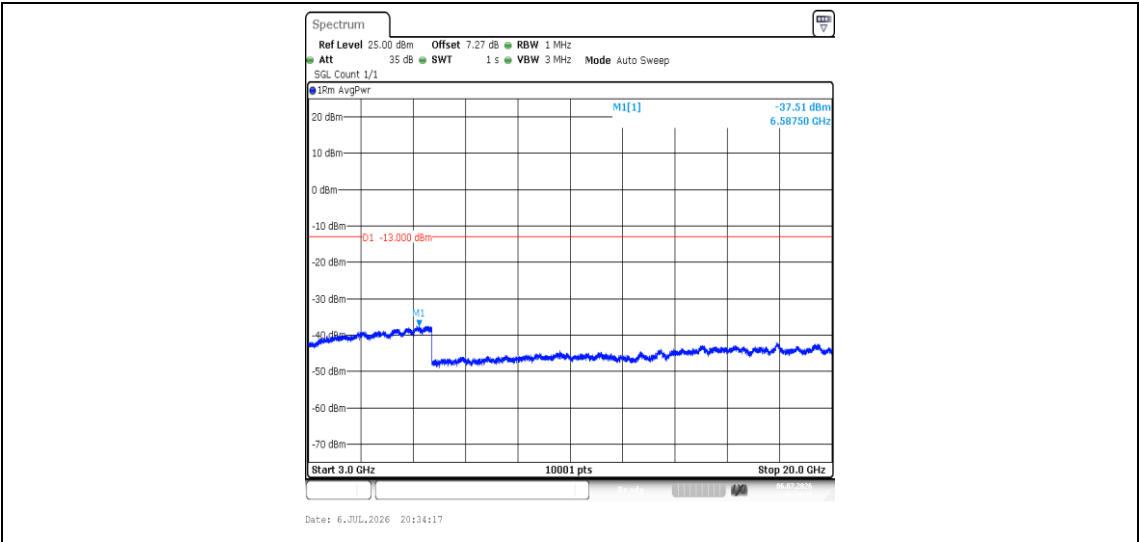
Band4-1413-0.15~30MHz-PASS



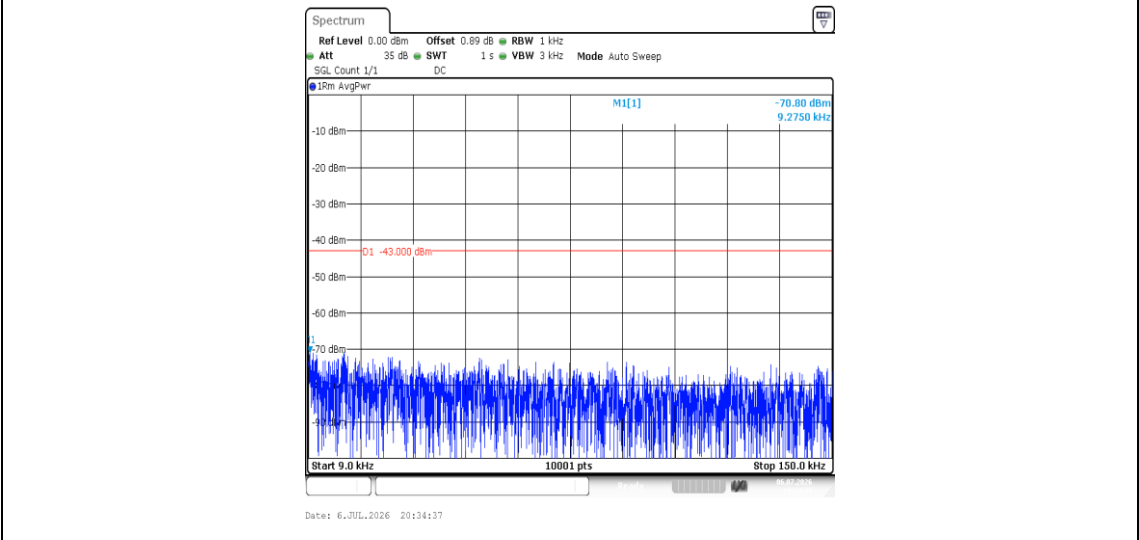
Band4-1413-30~1000MHz-PASS



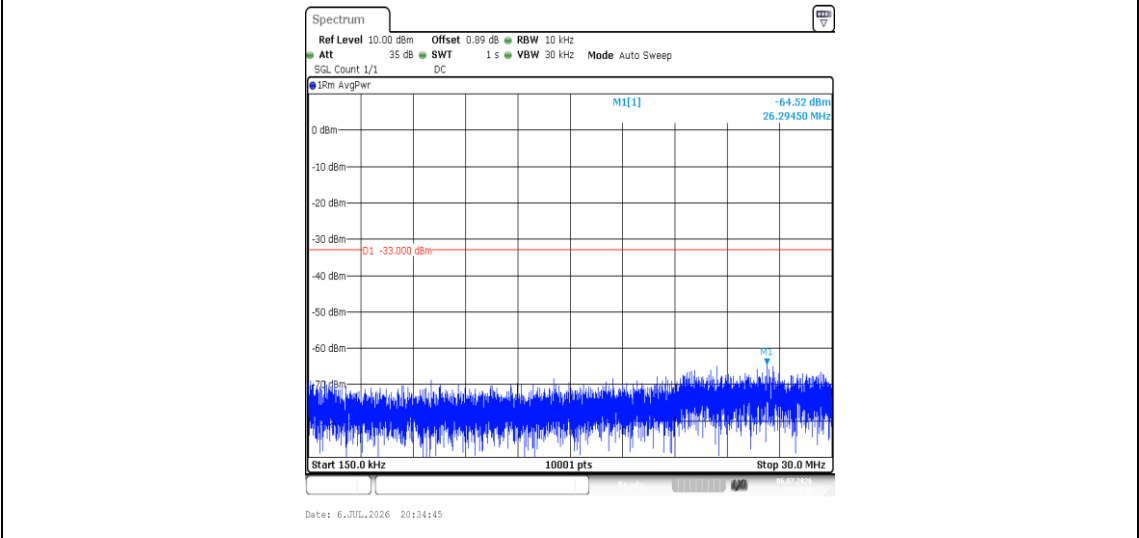
Band4-1413-1000~30000MHz-PASS



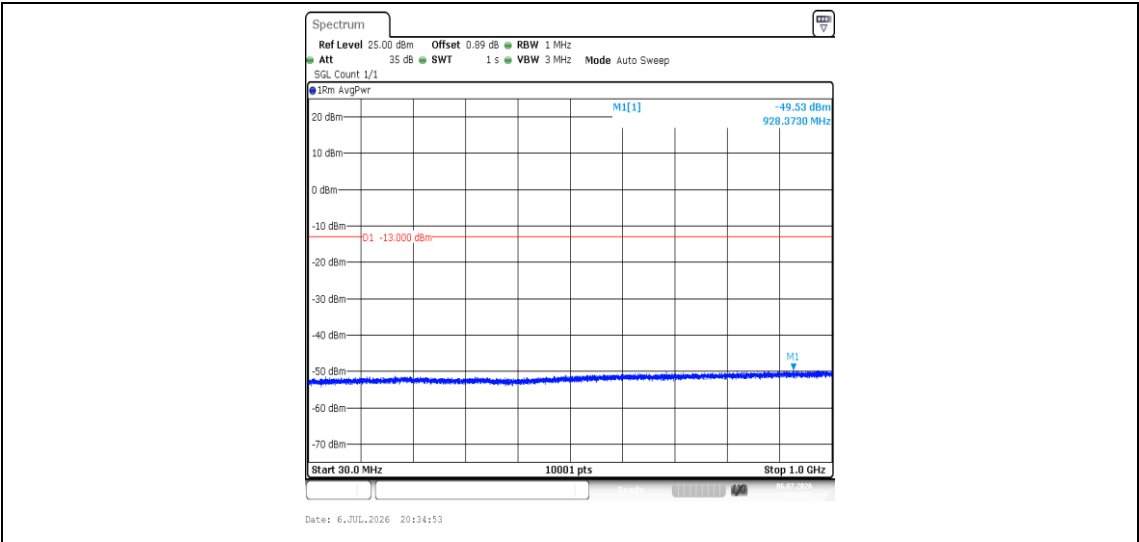
Band4-1413-3000~20000MHz-PASS



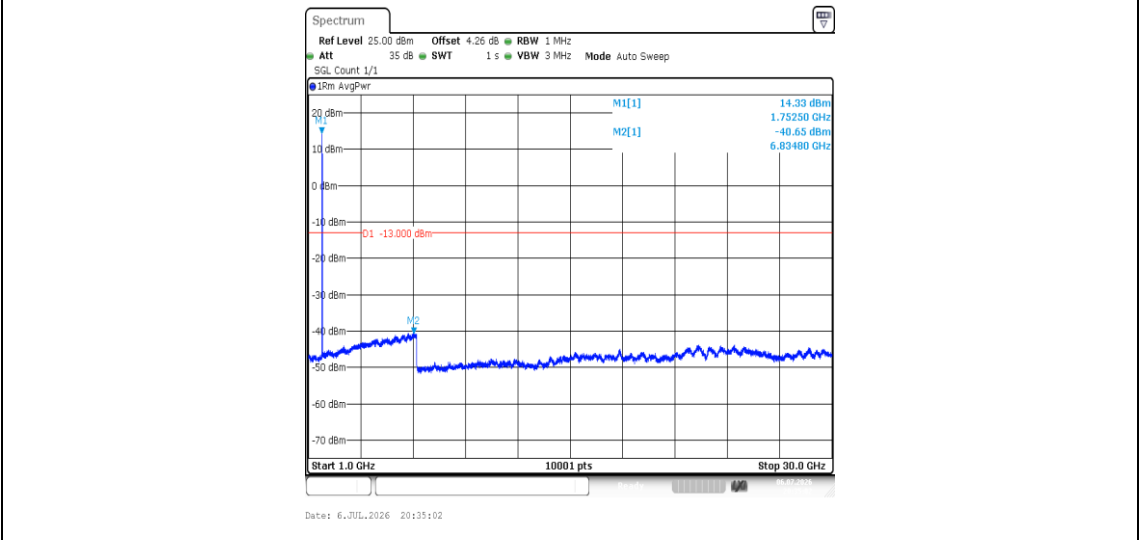
Band4-1513-0.009~0.15MHz-PASS



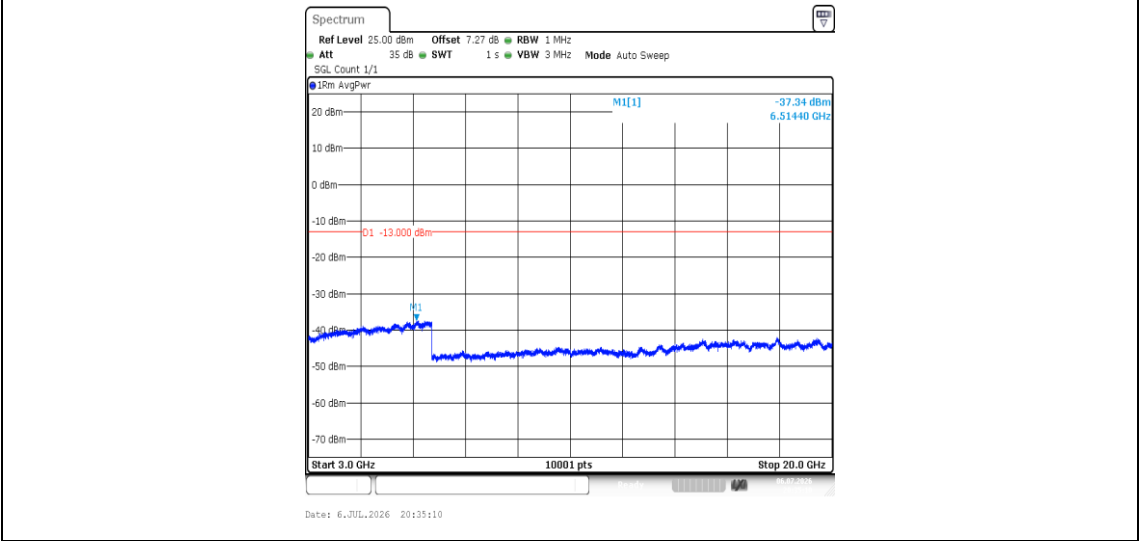
Band4-1513-0.15~30MHz-PASS



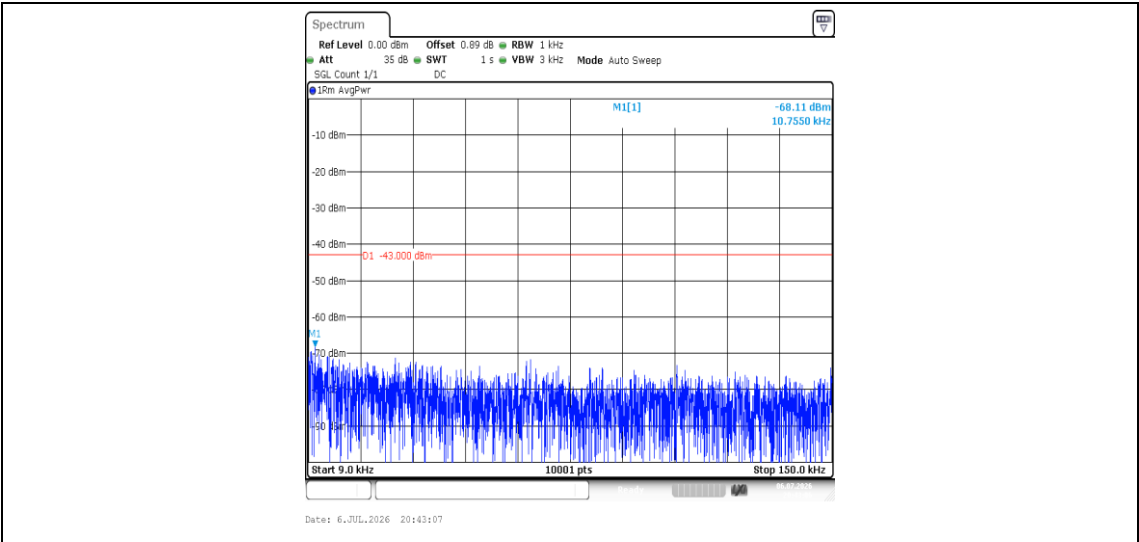
Band4-1513-30~1000MHz-PASS



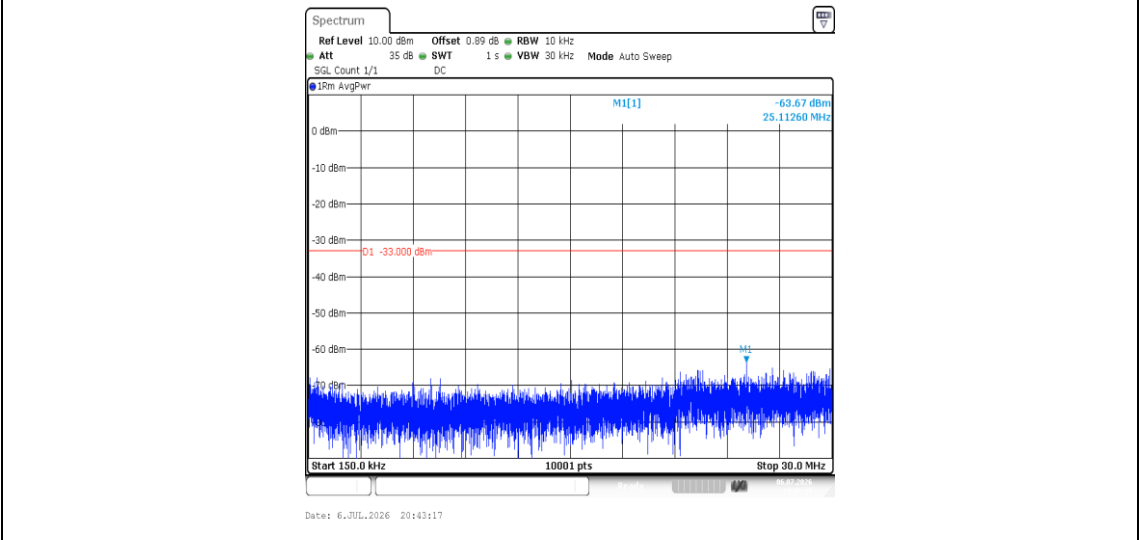
Band4-1513-1000~30000MHz-PASS



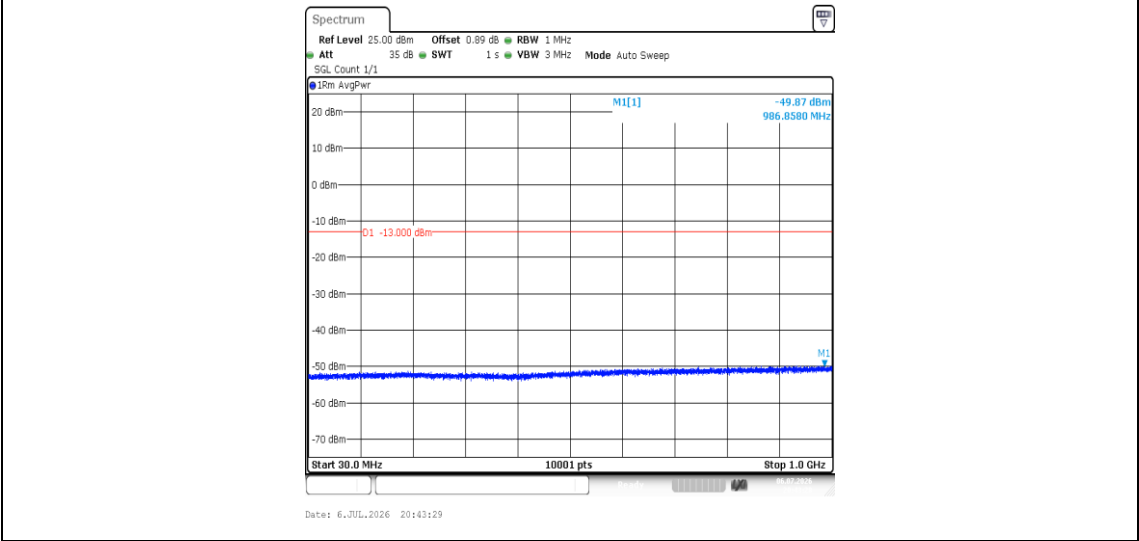
Band4-1513-3000~20000MHz-PASS



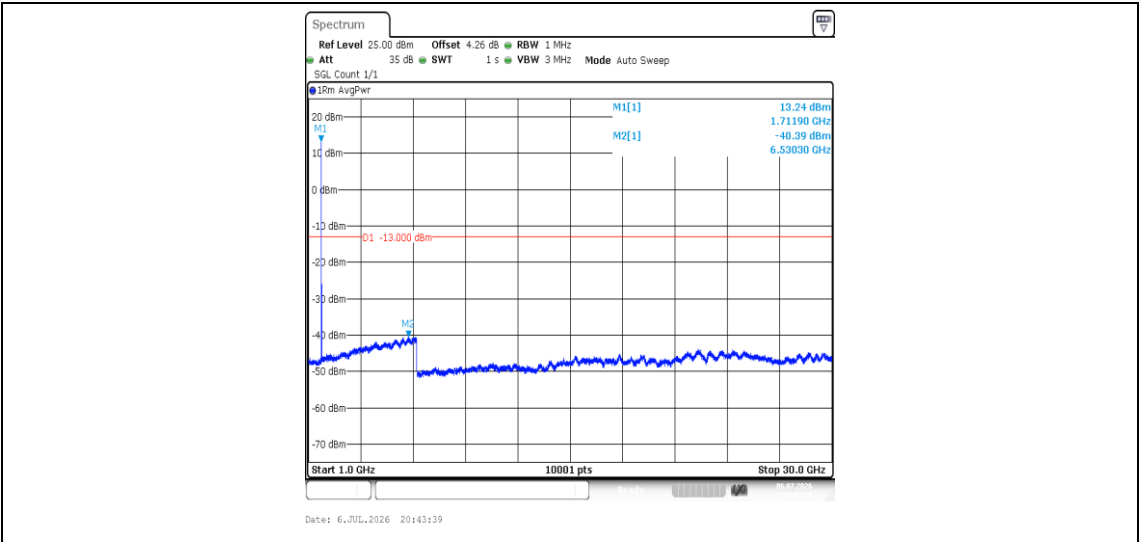
Band4-1312-0.009~0.15MHz-PASS



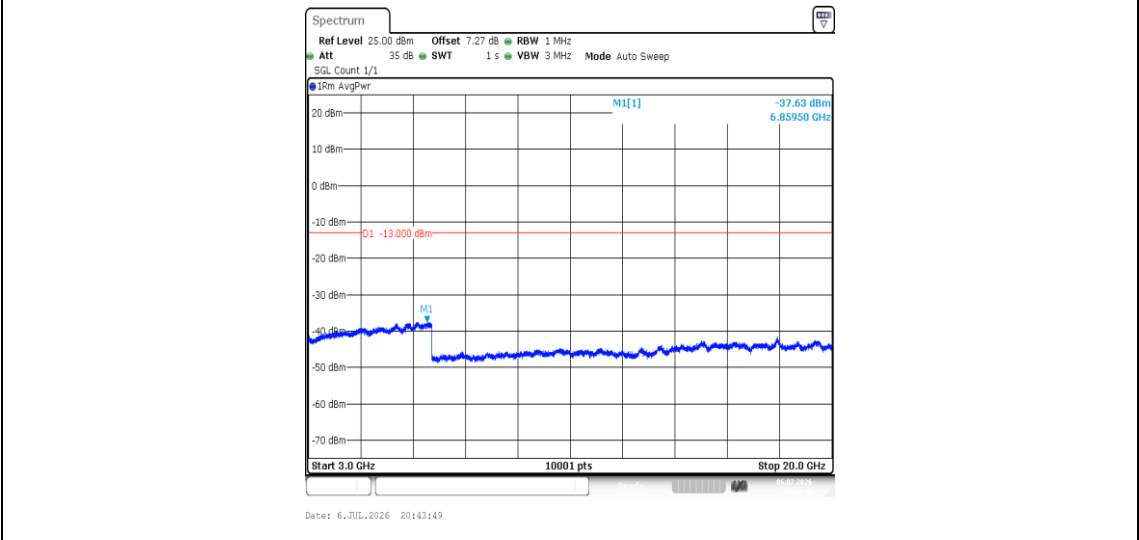
Band4-1312-0.15~30MHz-PASS



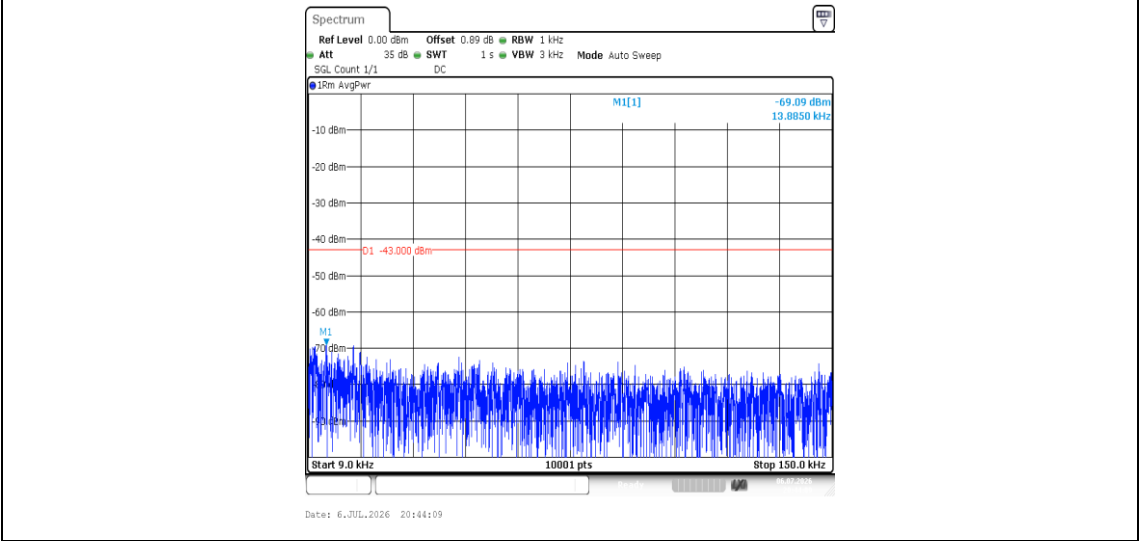
Band4-1312-30~1000MHz-PASS



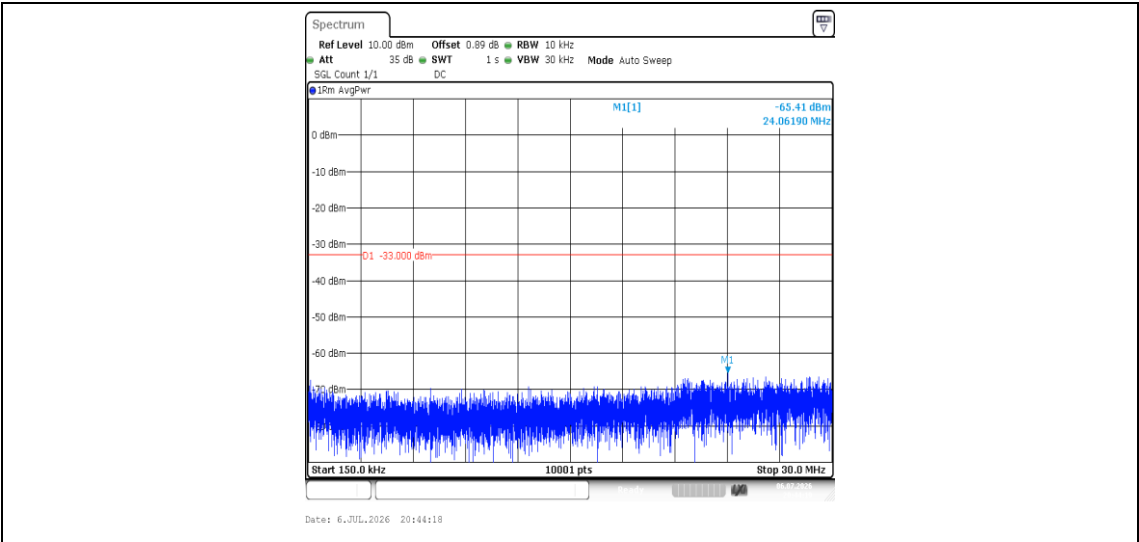
Band4-1312-1000~30000MHz-PASS



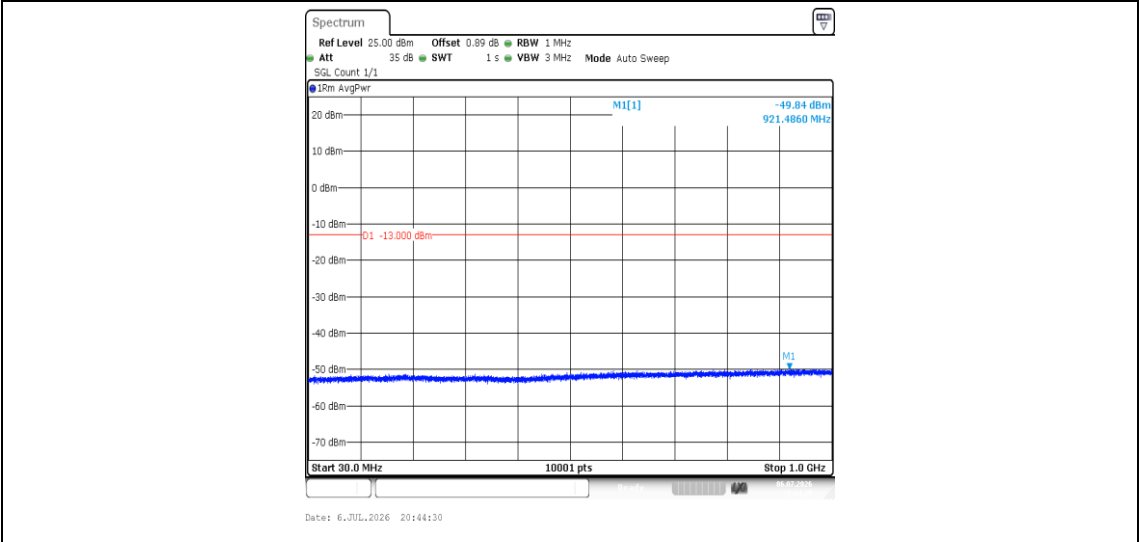
Band4-1312-3000~20000MHz-PASS



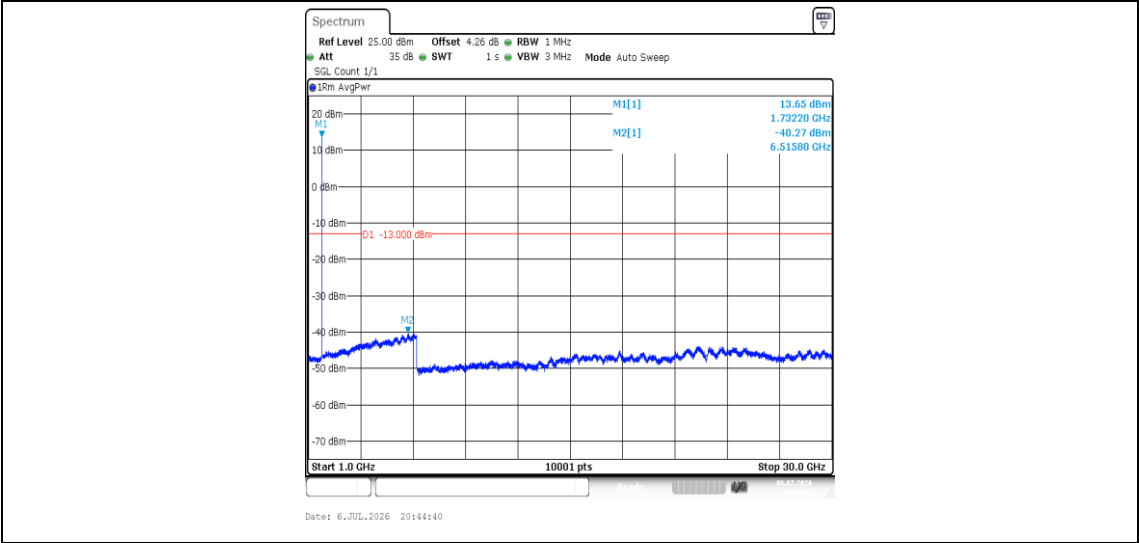
Band4-1413-0.009~0.15MHz-PASS



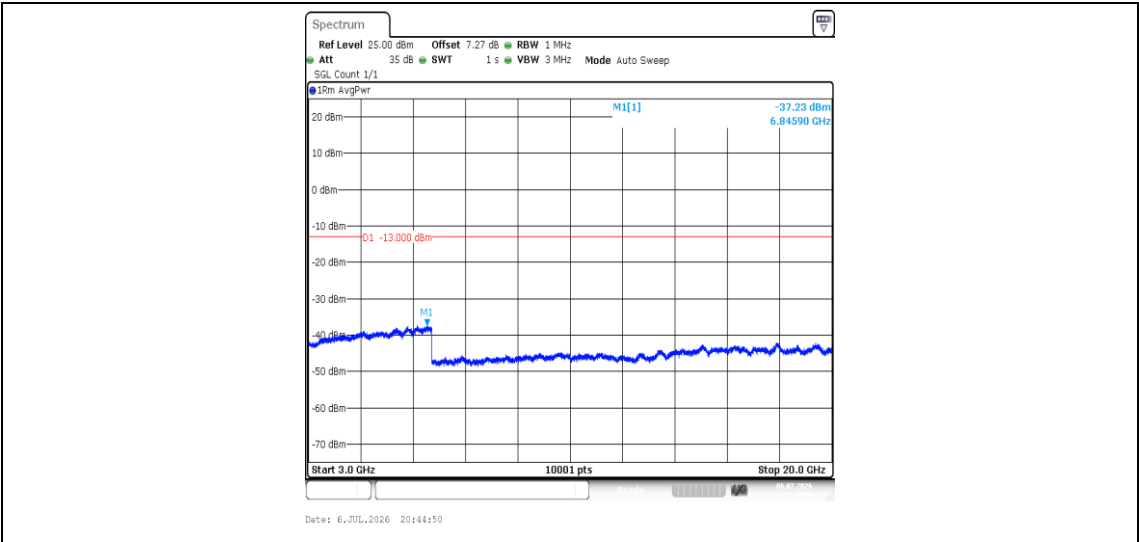
Band4-1413-0.15~30MHz-PASS



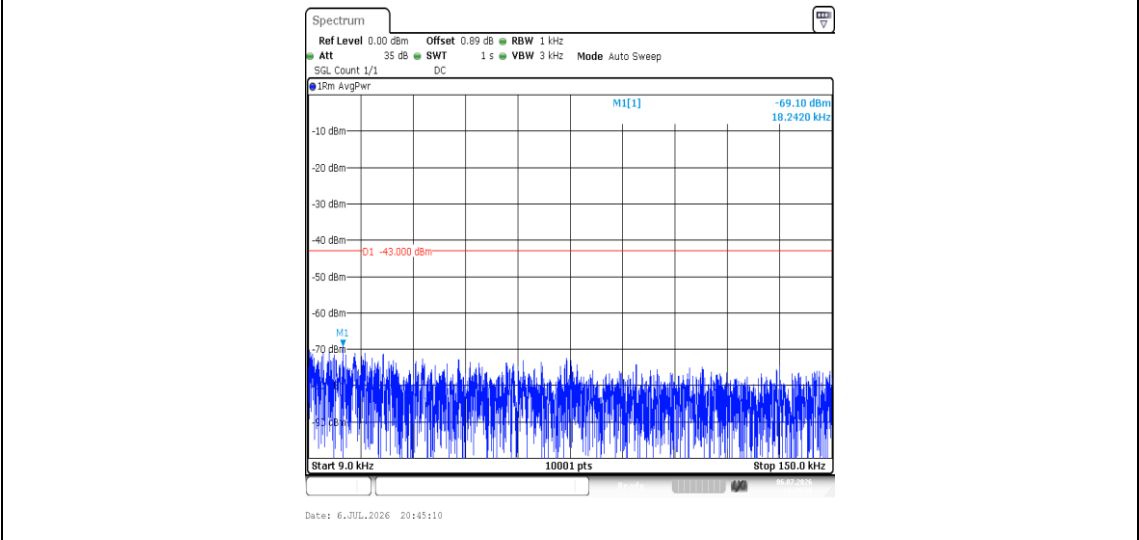
Band4-1413-30~1000MHz-PASS



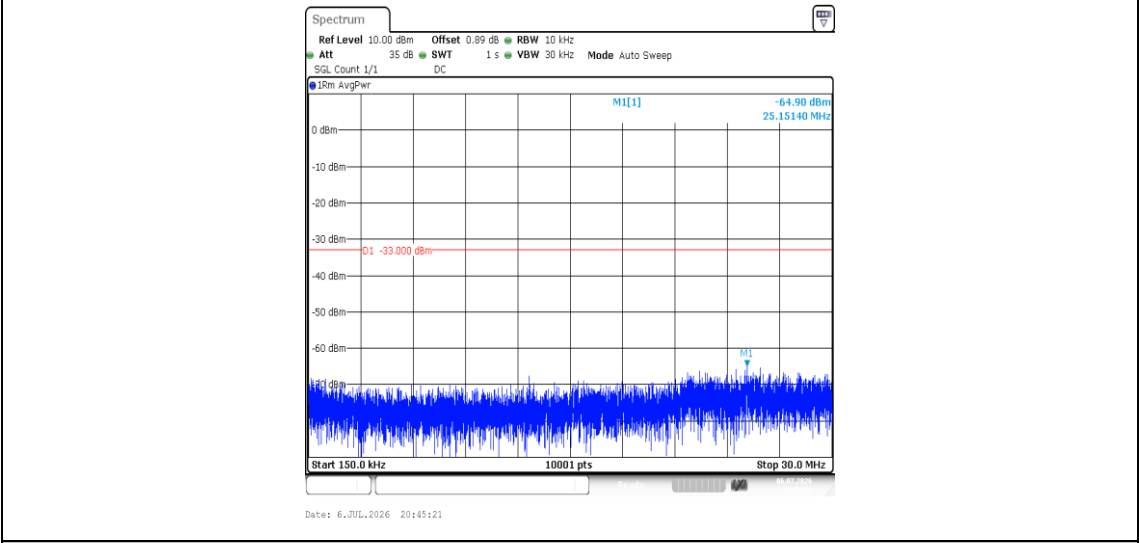
Band4-1413-1000~30000MHz-PASS



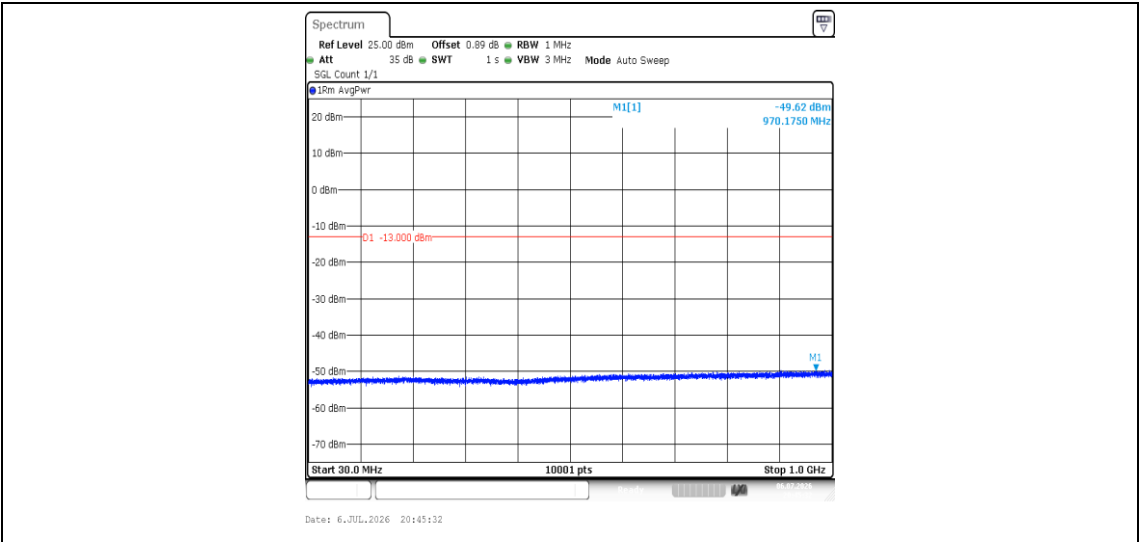
Band4-1413-3000~20000MHz-PASS



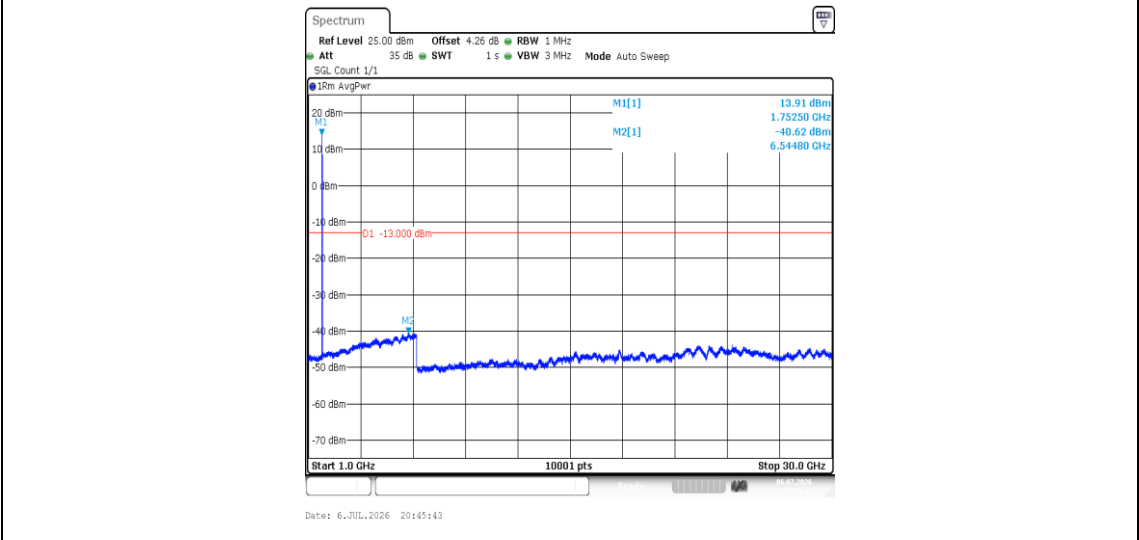
Band4-1513-0.009~0.15MHz-PASS



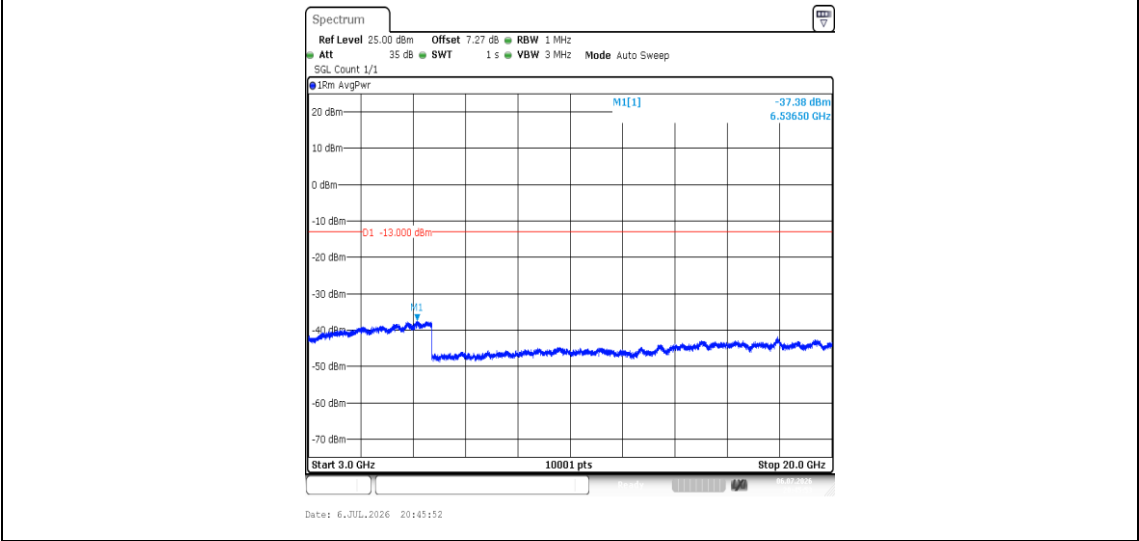
Band4-1513-0.15~30MHz-PASS



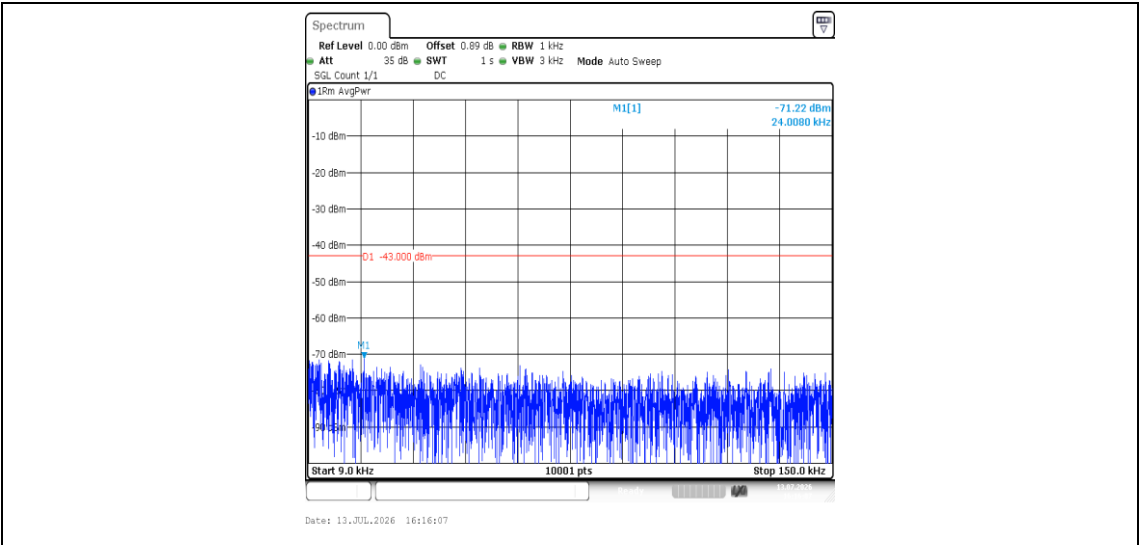
Band4-1513-30~1000MHz-PASS



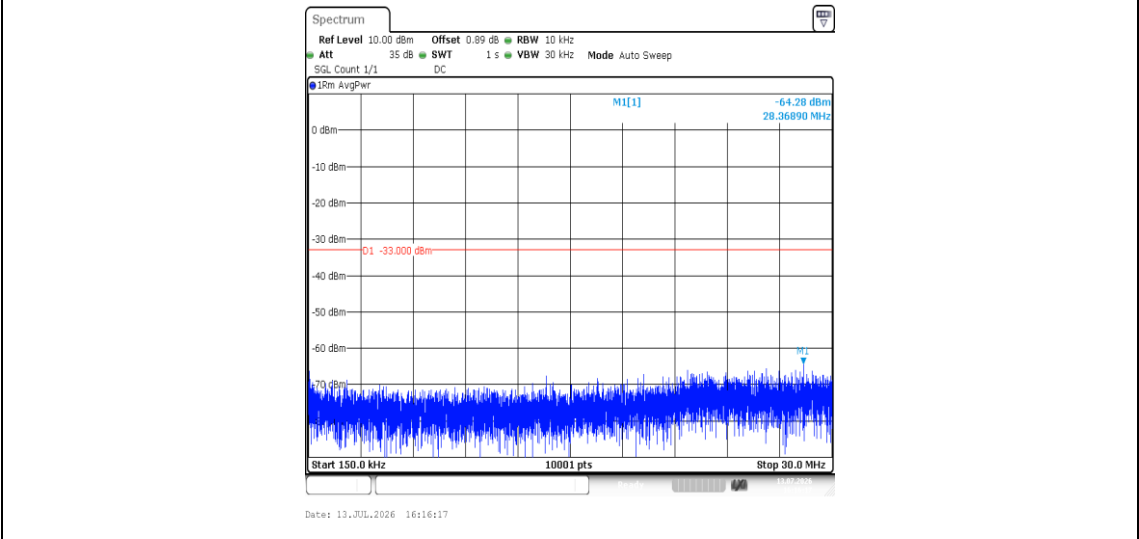
Band4-1513-1000~30000MHz-PASS



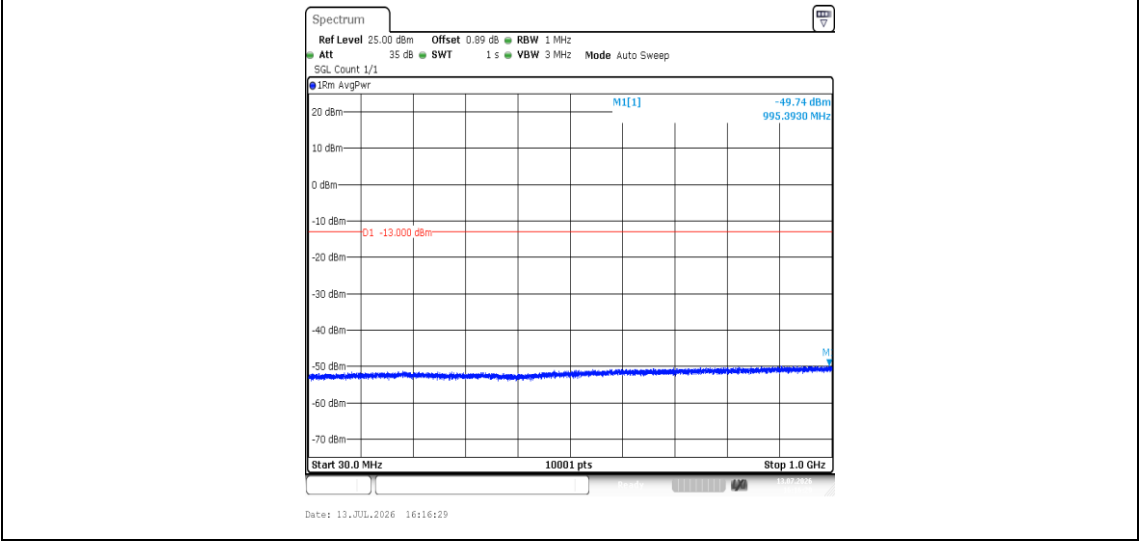
Band4-1513-3000~20000MHz-PASS



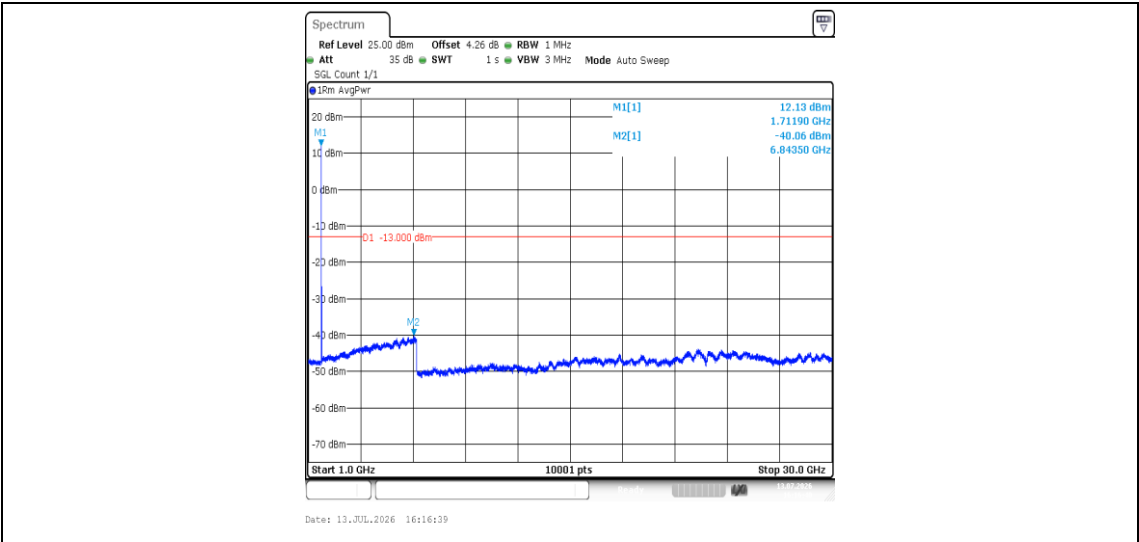
Band4-1312-0.009~0.15MHz-PASS



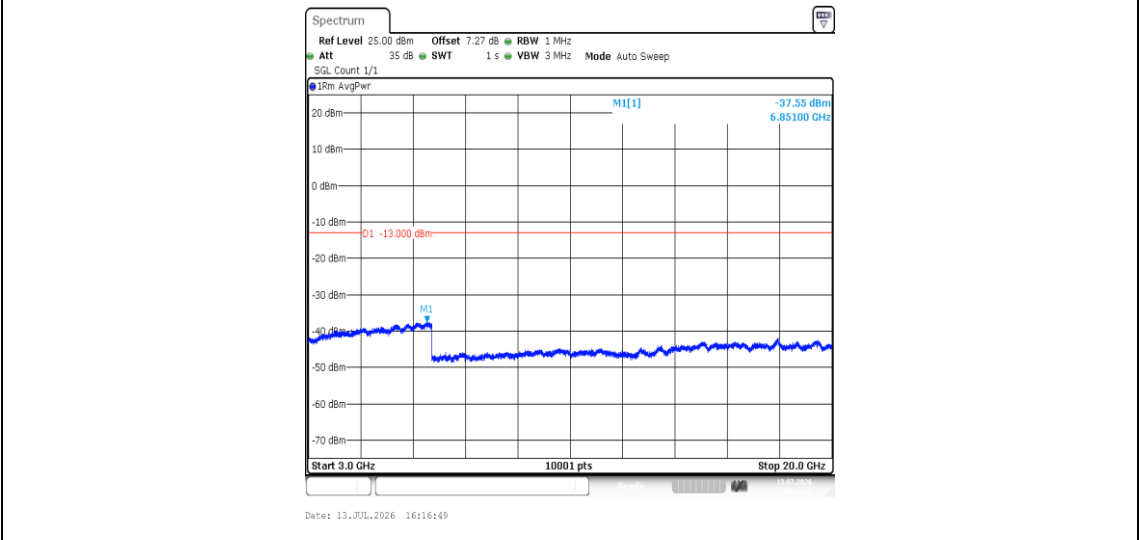
Band4-1312-0.15~30MHz-PASS



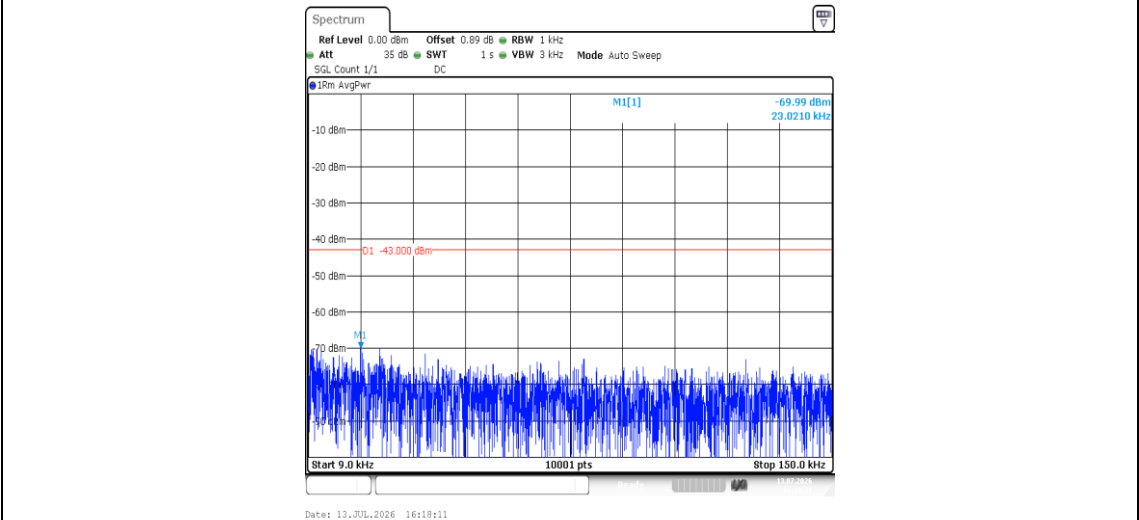
Band4-1312-30~1000MHz-PASS



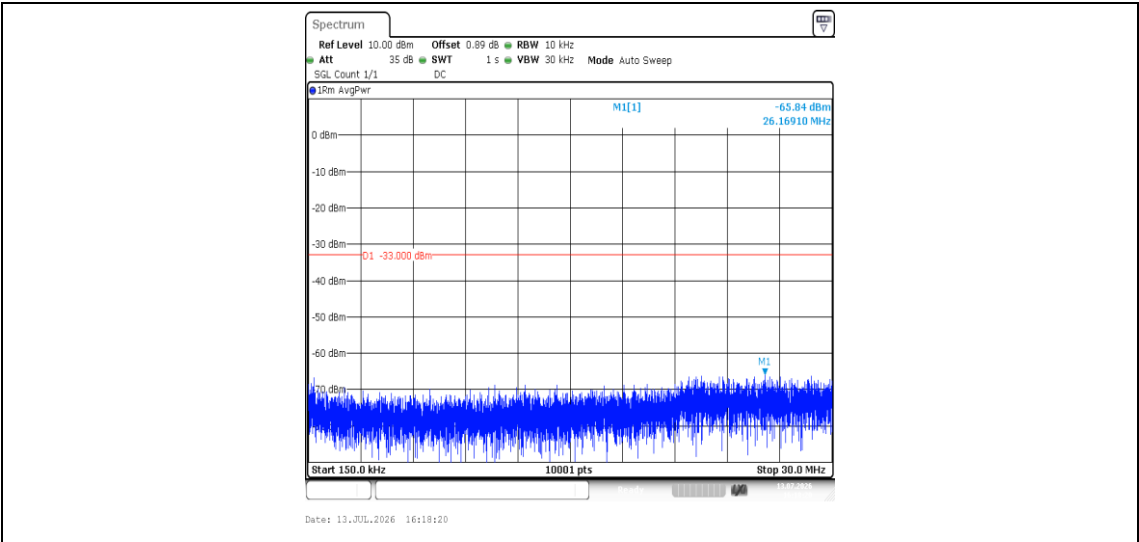
Band4-1312-1000~30000MHz-PASS



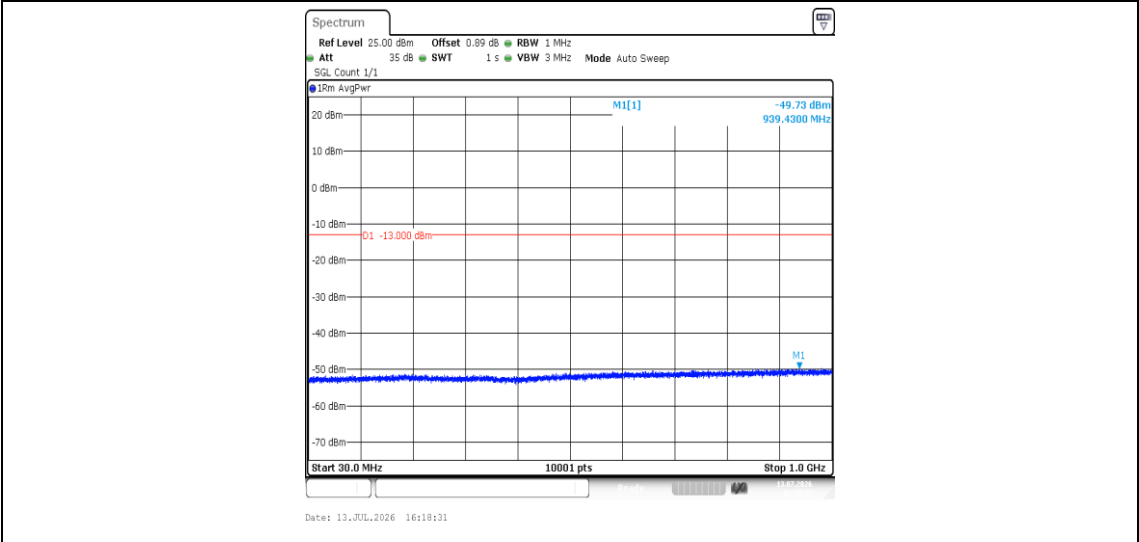
Band4-1312-3000~20000MHz-PASS



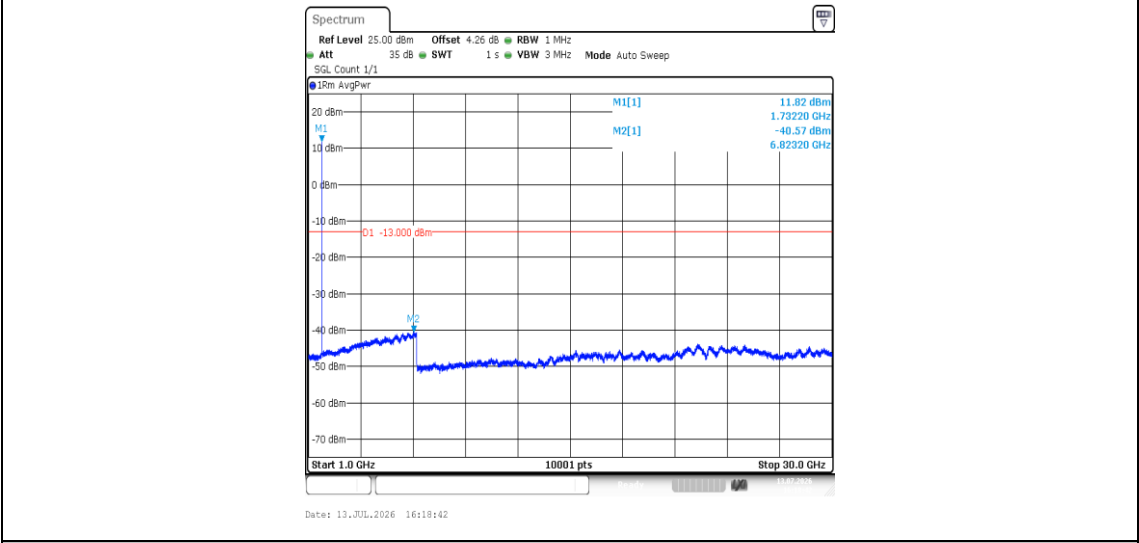
Band4-1413-0.009~0.15MHz-PASS



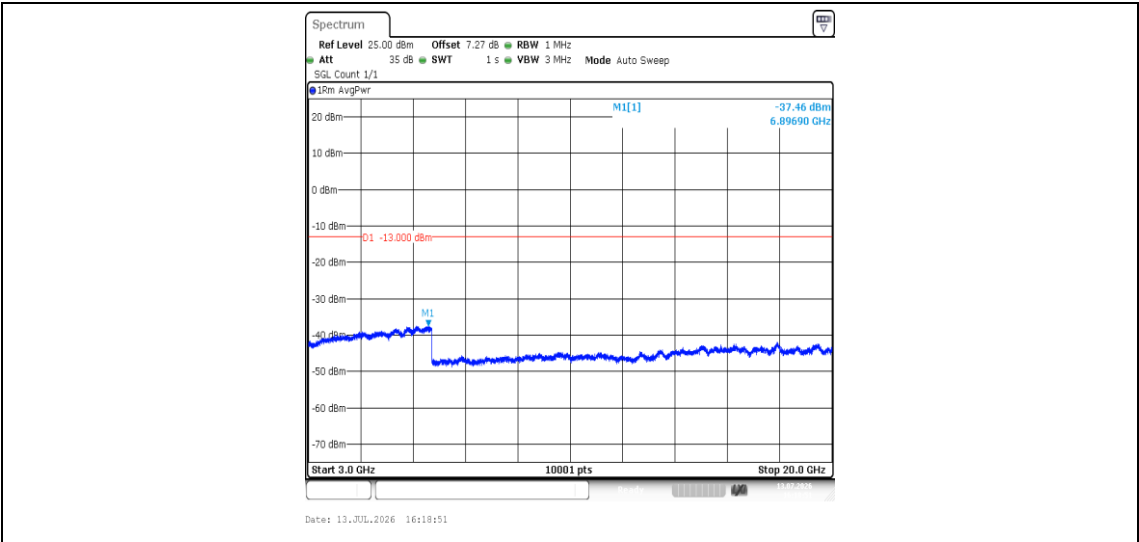
Band4-1413-0.15~30MHz-PASS



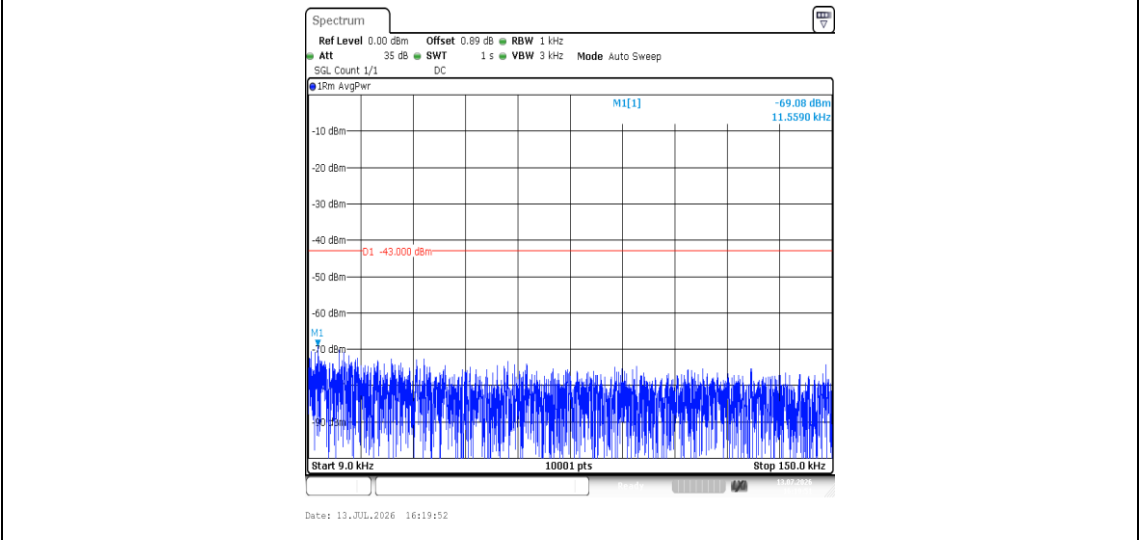
Band4-1413-30~1000MHz-PASS



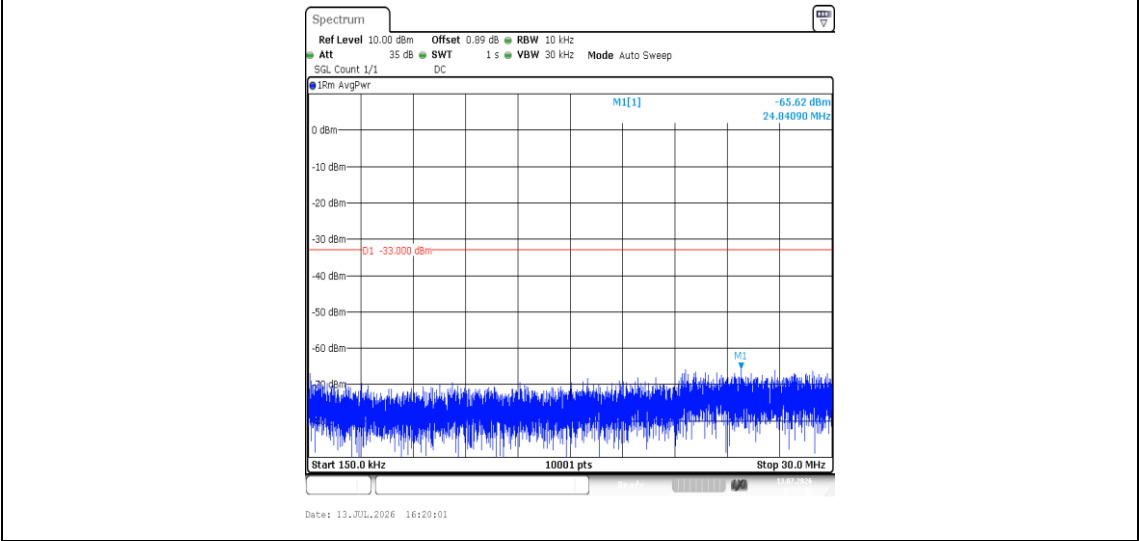
Band4-1413-1000~30000MHz-PASS



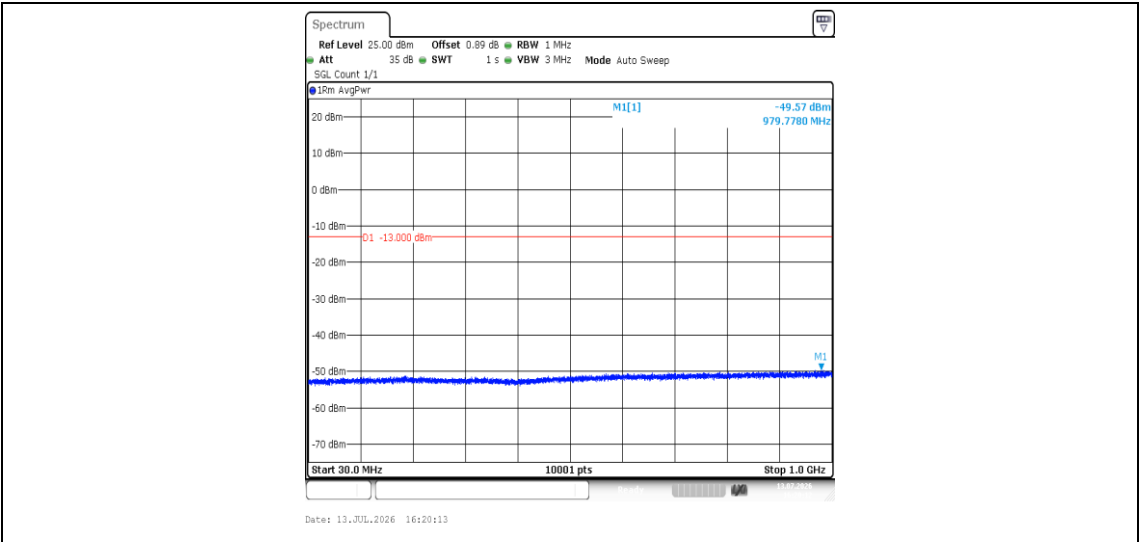
Band4-1413-3000~20000MHz-PASS



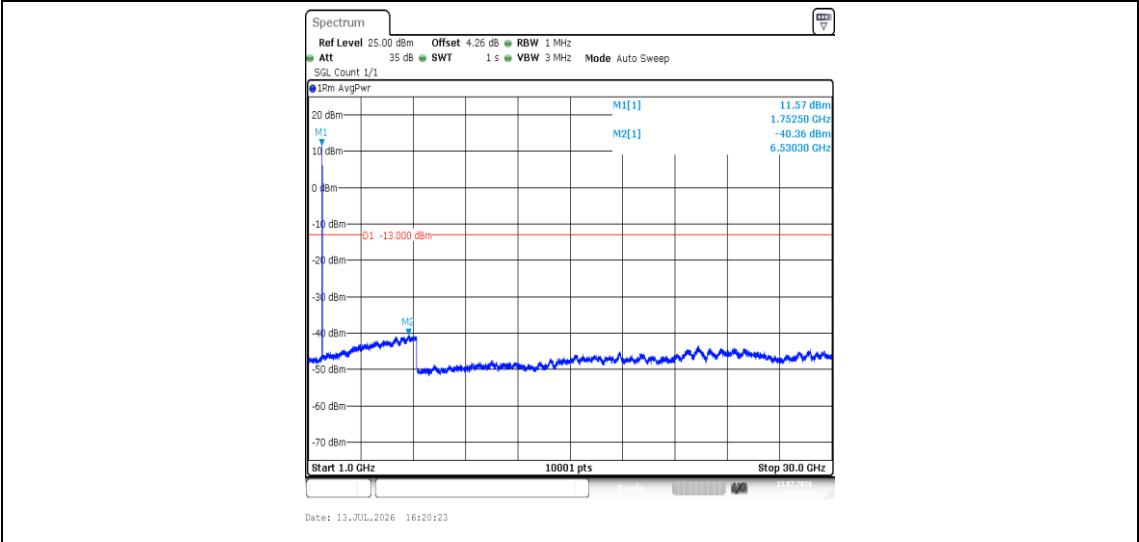
Band4-1513-0.009~0.15MHz-PASS



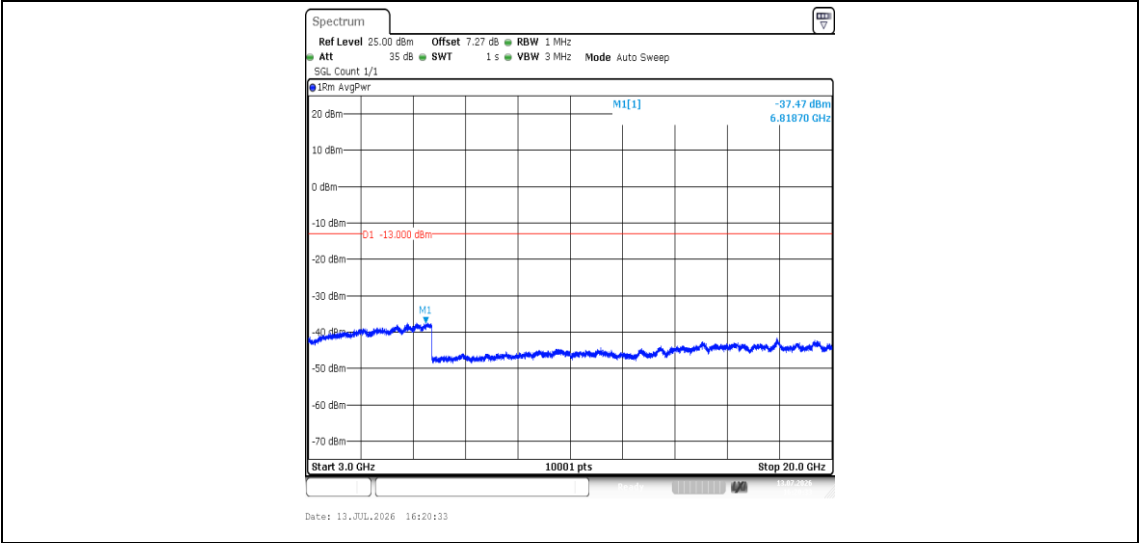
Band4-1513-0.15~30MHz-PASS



Band4-1513-30~1000MHz-PASS



Band4-1513-1000~30000MHz-PASS



Band4-1513-3000~20000MHz-PASS

Appendix F: Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VN	NT	-18.58	-0.010850	±2	PASS
Band4	1312	VL	NT	-7.77	-0.004537	±2	PASS
Band4	1312	VH	NT	-5.59	-0.003264	±2	PASS
Band4	1413	VN	NT	-2.10	-0.001212	±2	PASS
Band4	1413	VL	NT	-2.52	-0.001454	±2	PASS
Band4	1413	VH	NT	-2.45	-0.001414	±2	PASS
Band4	1513	VN	NT	-5.51	-0.003144	±2	PASS
Band4	1513	VL	NT	-3.18	-0.001814	±2	PASS
Band4	1513	VH	NT	-3.96	-0.002260	±2	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	-0.81	-0.000473	±2	PASS
Band4	1312	NV	-20	-1.65	-0.000964	±2	PASS
Band4	1312	NV	-10	0.34	0.000199	±2	PASS
Band4	1312	NV	0	-4.76	-0.002780	±2	PASS
Band4	1312	NV	10	-3.90	-0.002278	±2	PASS
Band4	1312	NV	20	0.02	0.000012	±2	PASS
Band4	1312	NV	30	-0.21	-0.000123	±2	PASS
Band4	1312	NV	40	1.02	0.000596	±2	PASS
Band4	1312	NV	50	-1.66	-0.000969	±2	PASS
Band4	1413	NV	-30	-3.80	-0.002193	±2	PASS
Band4	1413	NV	-20	-1.01	-0.000583	±2	PASS
Band4	1413	NV	-10	-2.73	-0.001576	±2	PASS
Band4	1413	NV	0	-2.16	-0.001247	±2	PASS
Band4	1413	NV	10	-4.01	-0.002314	±2	PASS
Band4	1413	NV	20	-6.08	-0.003509	±2	PASS
Band4	1413	NV	30	-4.20	-0.002424	±2	PASS
Band4	1413	NV	40	-4.84	-0.002793	±2	PASS
Band4	1413	NV	50	-6.69	-0.003861	±2	PASS
Band4	1513	NV	-30	-2.79	-0.001592	±2	PASS
Band4	1513	NV	-20	-4.99	-0.002847	±2	PASS
Band4	1513	NV	-10	-3.81	-0.002174	±2	PASS

Waltek Testing Group (Shenzhen) Co., Ltd.

[Http://www.waltek.com.cn](http://www.waltek.com.cn)

Band4	1513	NV	0	-6.72	-0.003834	±2	PASS
Band4	1513	NV	10	-4.40	-0.002511	±2	PASS
Band4	1513	NV	20	-6.86	-0.003914	±2	PASS
Band4	1513	NV	30	-6.50	-0.003709	±2	PASS
Band4	1513	NV	40	-6.73	-0.003840	±2	PASS
Band4	1513	NV	50	-3.87	-0.002208	±2	PASS

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VN	NT	-7.57	-0.004421	±2	PASS
Band4	1312	VL	NT	-2.08	-0.001215	±2	PASS
Band4	1312	VH	NT	-2.47	-0.001442	±2	PASS
Band4	1413	VN	NT	-6.17	-0.003561	±2	PASS
Band4	1413	VL	NT	-4.05	-0.002338	±2	PASS
Band4	1413	VH	NT	-2.85	-0.001645	±2	PASS
Band4	1513	VN	NT	-7.48	-0.004268	±2	PASS
Band4	1513	VL	NT	-2.13	-0.001215	±2	PASS
Band4	1513	VH	NT	-4.87	-0.002779	±2	PASS

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	0.72	0.000420	±2	PASS
Band4	1312	NV	-20	-4.12	-0.002406	±2	PASS
Band4	1312	NV	-10	-3.42	-0.001997	±2	PASS
Band4	1312	NV	0	-3.12	-0.001822	±2	PASS
Band4	1312	NV	10	-3.98	-0.002324	±2	PASS
Band4	1312	NV	20	-3.57	-0.002085	±2	PASS
Band4	1312	NV	30	-0.84	-0.000491	±2	PASS
Band4	1312	NV	40	-2.49	-0.001454	±2	PASS
Band4	1312	NV	50	0.09	0.000053	±2	PASS
Band4	1413	NV	-30	-4.33	-0.002499	±2	PASS
Band4	1413	NV	-20	-2.40	-0.001385	±2	PASS
Band4	1413	NV	-10	-6.02	-0.003475	±2	PASS
Band4	1413	NV	0	-2.70	-0.001558	±2	PASS
Band4	1413	NV	10	-5.82	-0.003359	±2	PASS
Band4	1413	NV	20	-5.65	-0.003261	±2	PASS
Band4	1413	NV	30	-5.79	-0.003342	±2	PASS
Band4	1413	NV	40	-5.79	-0.003342	±2	PASS
Band4	1413	NV	50	-4.01	-0.002314	±2	PASS
Band4	1513	NV	-30	-4.89	-0.002790	±2	PASS
Band4	1513	NV	-20	-2.44	-0.001392	±2	PASS
Band4	1513	NV	-10	-2.11	-0.001204	±2	PASS
Band4	1513	NV	0	-5.92	-0.003378	±2	PASS
Band4	1513	NV	10	-5.66	-0.003229	±2	PASS
Band4	1513	NV	20	-3.73	-0.002128	±2	PASS
Band4	1513	NV	30	-3.04	-0.001735	±2	PASS

Band4	1513	NV	40	-3.45	-0.001969	±2	PASS
Band4	1513	NV	50	-3.48	-0.001986	±2	PASS

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	VN	NT	-10.33	-0.006032	±2	PASS
Band4	1312	VL	NT	-6.04	-0.003527	±2	PASS
Band4	1312	VH	NT	-3.25	-0.001898	±2	PASS
Band4	1413	VN	NT	-10.64	-0.006141	±2	PASS
Band4	1413	VL	NT	-7.23	-0.004173	±2	PASS
Band4	1413	VH	NT	-3.13	-0.001807	±2	PASS
Band4	1513	VN	NT	-12.80	-0.007303	±2	PASS
Band4	1513	VL	NT	-5.10	-0.002910	±2	PASS
Band4	1513	VH	NT	-3.95	-0.002254	±2	PASS

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	1312	NV	-30	-0.57	-0.000333	±2	PASS
Band4	1312	NV	-20	-3.85	-0.002248	±2	PASS
Band4	1312	NV	-10	-2.32	-0.001355	±2	PASS
Band4	1312	NV	0	-0.97	-0.000566	±2	PASS
Band4	1312	NV	10	-1.88	-0.001098	±2	PASS
Band4	1312	NV	20	-2.57	-0.001501	±2	PASS
Band4	1312	NV	30	-1.89	-0.001104	±2	PASS
Band4	1312	NV	40	-2.99	-0.001746	±2	PASS
Band4	1312	NV	50	-2.60	-0.001518	±2	PASS
Band4	1413	NV	-30	-6.24	-0.003602	±2	PASS
Band4	1413	NV	-20	-6.82	-0.003936	±2	PASS
Band4	1413	NV	-10	-2.57	-0.001483	±2	PASS
Band4	1413	NV	0	-1.18	-0.000681	±2	PASS
Band4	1413	NV	10	-2.97	-0.001714	±2	PASS
Band4	1413	NV	20	0.31	0.000179	±2	PASS
Band4	1413	NV	30	-3.64	-0.002101	±2	PASS
Band4	1413	NV	40	-1.23	-0.000710	±2	PASS
Band4	1413	NV	50	-2.27	-0.001310	±2	PASS
Band4	1513	NV	-30	-4.33	-0.002471	±2	PASS
Band4	1513	NV	-20	-6.04	-0.003446	±2	PASS
Band4	1513	NV	-10	-9.57	-0.005460	±2	PASS
Band4	1513	NV	0	-5.46	-0.003115	±2	PASS
Band4	1513	NV	10	-7.99	-0.004559	±2	PASS
Band4	1513	NV	20	-8.78	-0.005010	±2	PASS
Band4	1513	NV	30	-1.67	-0.000953	±2	PASS

Band4	1513	NV	40	-3.40	-0.001940	±2	PASS
Band4	1513	NV	50	-5.41	-0.003087	±2	PASS