Appendix for WCDMA Band 2

Product Name: 5G Window CPE
Model No: TITAN 5100

AppendixA: Average Power Output Data

Test Result

WCDMA

Band	Channel	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	22.27	33.01	PASS
Band2	9400	22.21	33.01	PASS
Band2	9538	22.42	33.01	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	1	21.29	33.01	PASS
Band2	9400	1	21.21	33.01	PASS
Band2	9538	1	21.43	33.01	PASS
Band2	9262	2	20.83	33.01	PASS
Band2	9400	2	20.72	33.01	PASS
Band2	9538	2	20.92	33.01	PASS
Band2	9262	3	20.80	33.01	PASS
Band2	9400	3	20.73	33.01	PASS
Band2	9538	3	20.93	33.01	PASS
Band2	9262	4	20.80	33.01	PASS
Band2	9400	4	20.71	33.01	PASS
Band2	9538	4	20.95	33.01	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	Limit(dBm)	Verdict
Band2	9262	1	21.28	33.01	PASS
Band2	9400	1	21.24	33.01	PASS
Band2	9538	1	21.49	33.01	PASS
Band2	9262	2	20.32	33.01	PASS
Band2	9400	2	20.25	33.01	PASS
Band2	9538	2	20.49	33.01	PASS
Band2	9262	3	20.35	33.01	PASS
Band2	9400	3	20.23	33.01	PASS
Band2	9538	3	20.42	33.01	PASS
Band2	9262	4	20.28	33.01	PASS
Band2	9400	4	20.26	33.01	PASS
Band2	9538	4	20.49	33.01	PASS
Band2	9262	5	21.35	33.01	PASS

Band2	9400	5	21.23	33.01	PASS
Band2	9538	5	21.49	33.01	PASS

AppendixB:Peak-to-Average Ratio

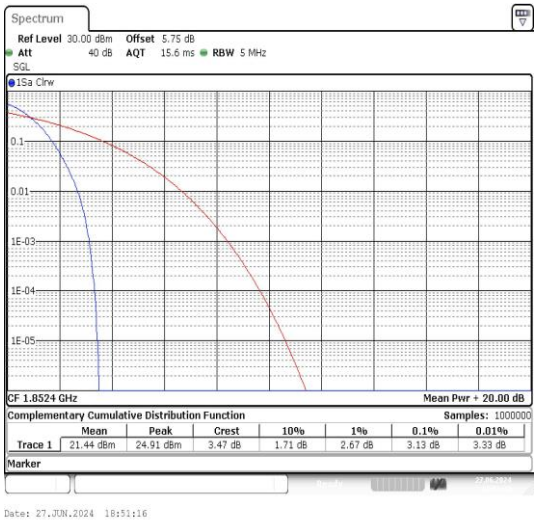
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	3.13	13	PASS
Band2	9400	3.1	13	PASS
Band2	9538	3.1	13	PASS

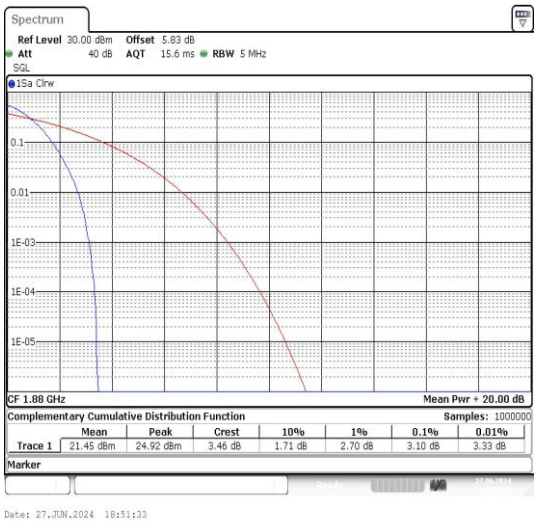
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	3.33	13	PASS
Band2	9400	1	3.33	13	PASS
Band2	9538	1	3.33	13	PASS
Band2	9262	2	3.51	13	PASS
Band2	9400	2	3.51	13	PASS
Band2	9538	2	3.48	13	PASS
Band2	9262	3	3.65	13	PASS
Band2	9400	3	3.65	13	PASS
Band2	9538	3	3.65	13	PASS
Band2	9262	4	3.71	13	PASS
Band2	9400	4	3.68	13	PASS
Band2	9538	4	3.71	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band2	9262	1	4.58	13	PASS
Band2	9400	1	4.55	13	PASS
Band2	9538	1	4.52	13	PASS
Band2	9262	2	5.48	13	PASS
Band2	9400	2	5.48	13	PASS
Band2	9538	2	5.51	13	PASS
Band2	9262	3	5.33	13	PASS
Band2	9400	3	5.33	13	PASS
Band2	9538	3	5.36	13	PASS
Band2	9262	4	5.48	13	PASS
Band2	9400	4	5.48	13	PASS
Band2	9538	4	5.51	13	PASS
Band2	9262	5	4.26	13	PASS
Band2	9400	5	4.26	13	PASS
Band2	9538	5	4.29	13	PASS

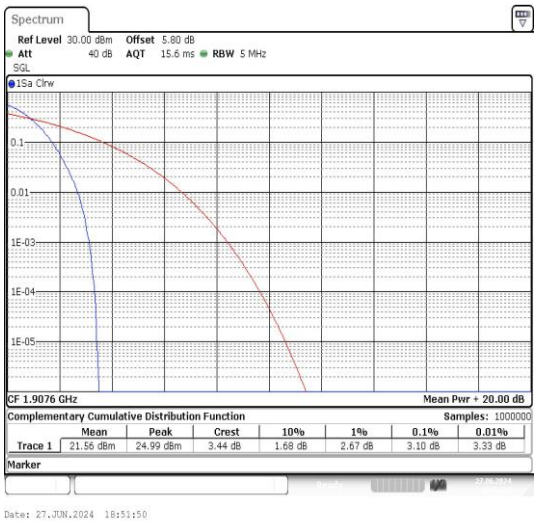
Test Graphs



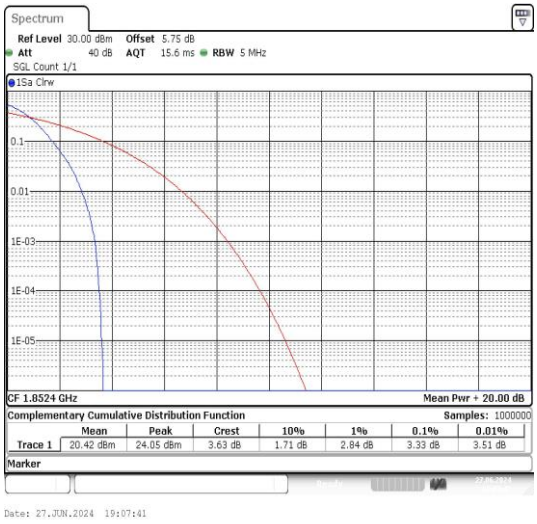
Band2-9262-PASS



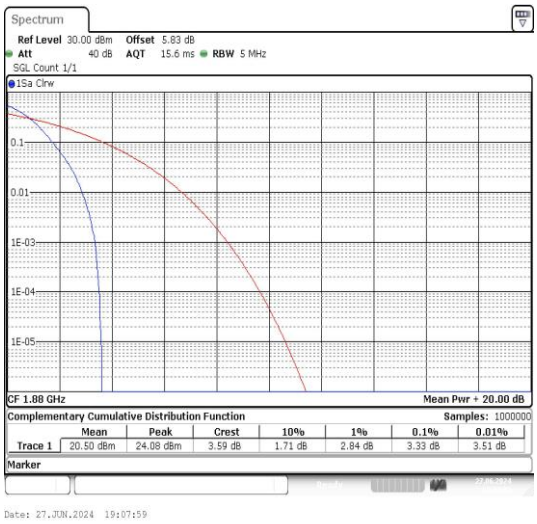
Band2-9400-PASS



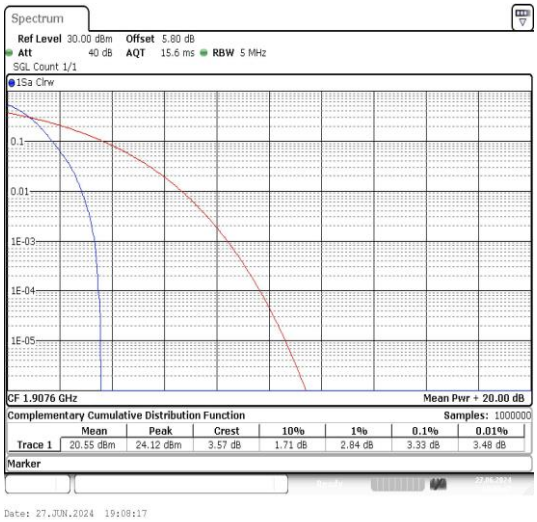
Band2-9538-PASS



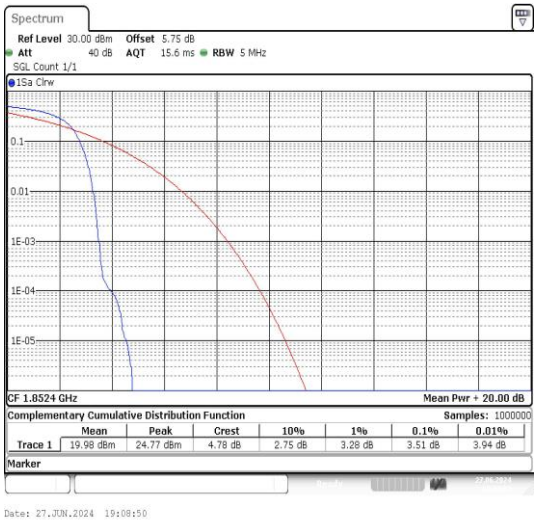
Band2-9262-1-PASS



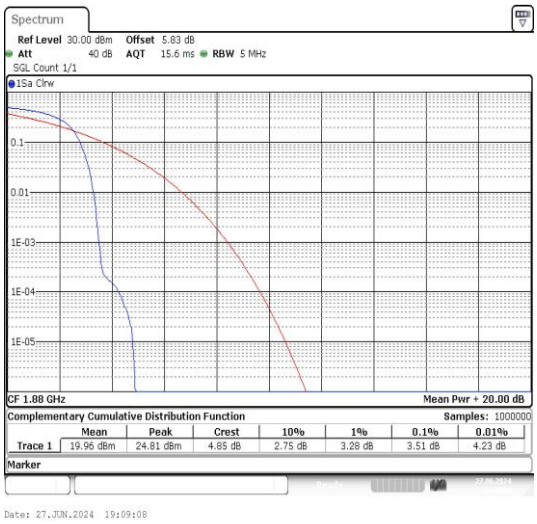
Band2-9400-1-PASS



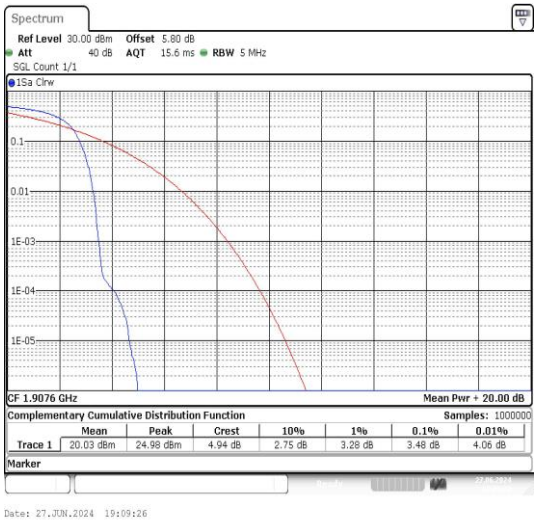
Band2-9538-1-PASS



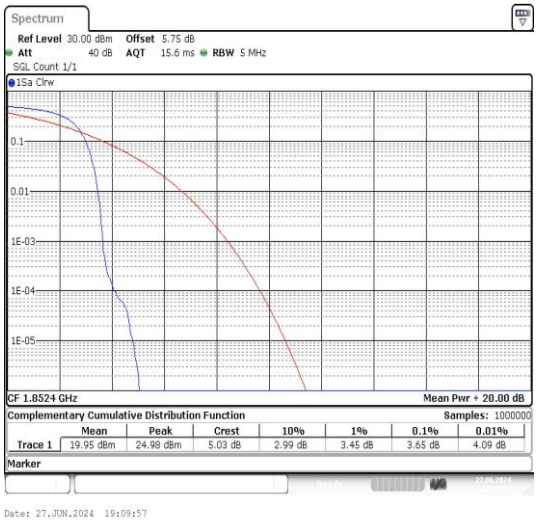
Band2-9262-2-PASS



Band2-9400-2-PASS

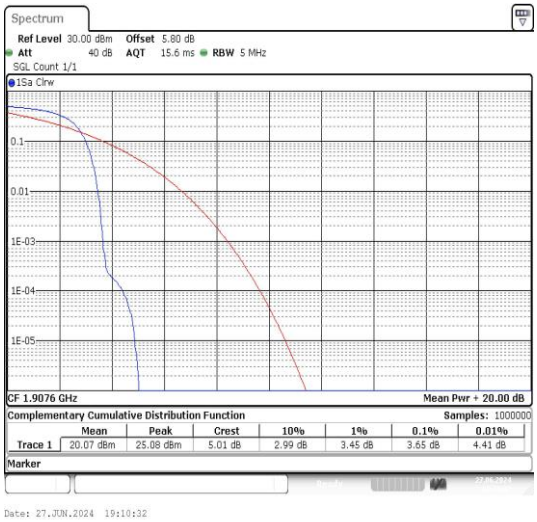


Band2-9538-2-PASS

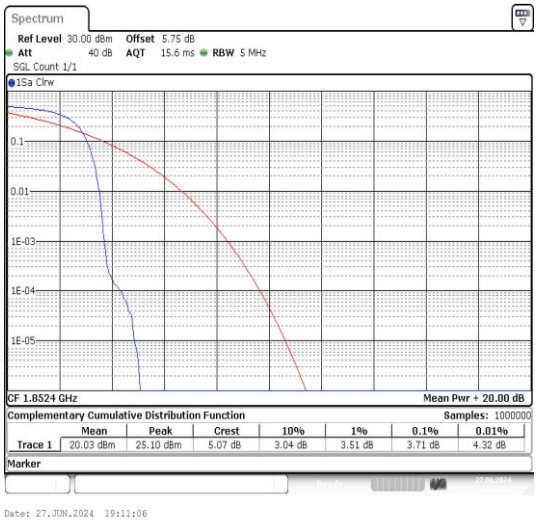


Band2-9262-3-PASS

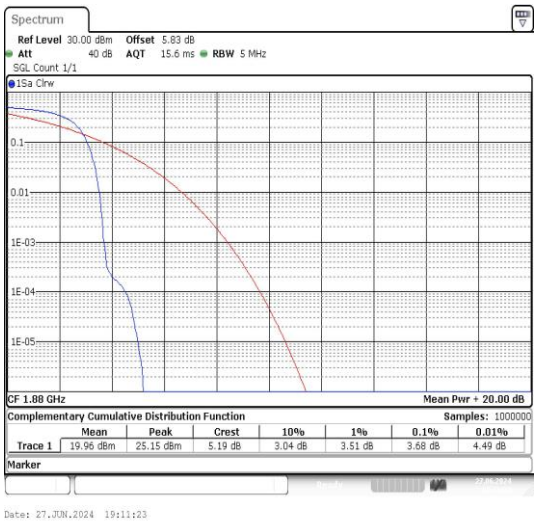
Band2-9400-3-PASS



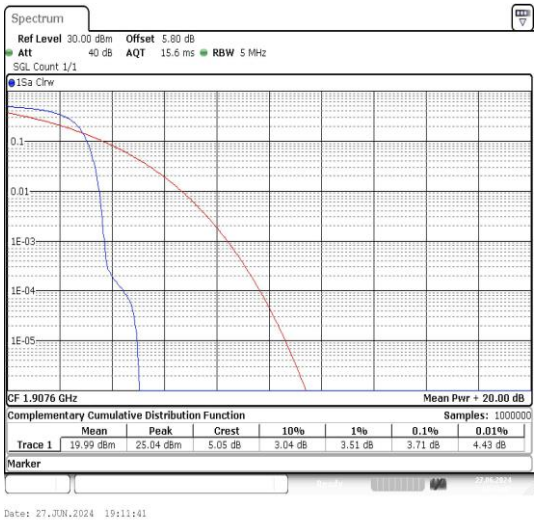
Band2-9538-3-PASS



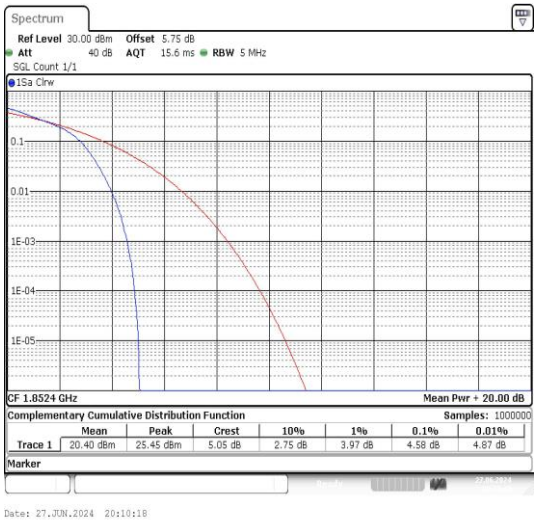
Band2-9262-4-PASS



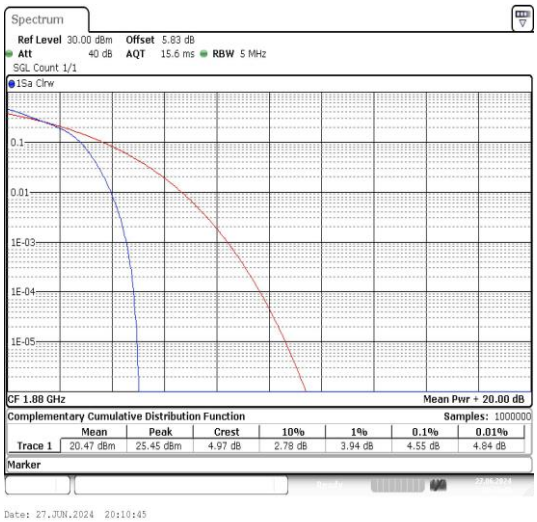
Band2-9400-4-PASS



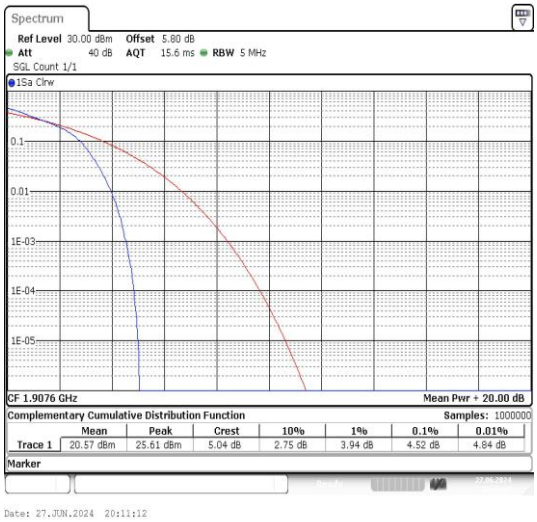
Band2-9538-4-PASS



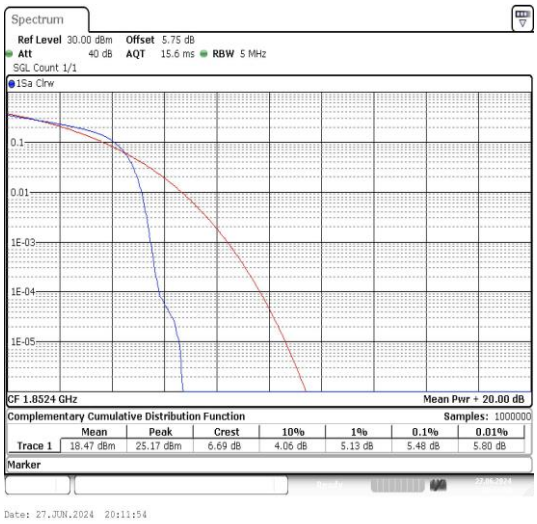
Band2-9262-1-PASS



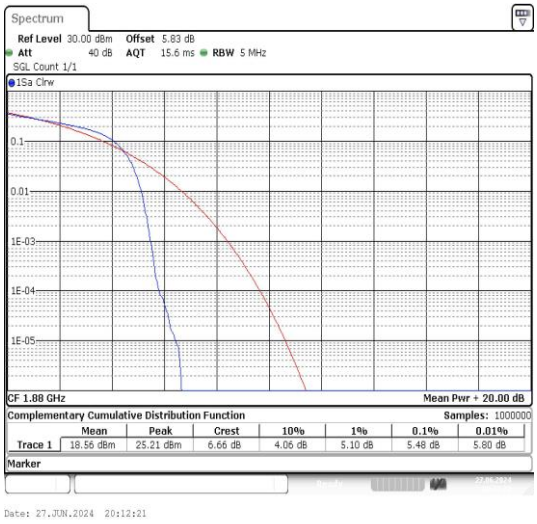
Band2-9400-1-PASS



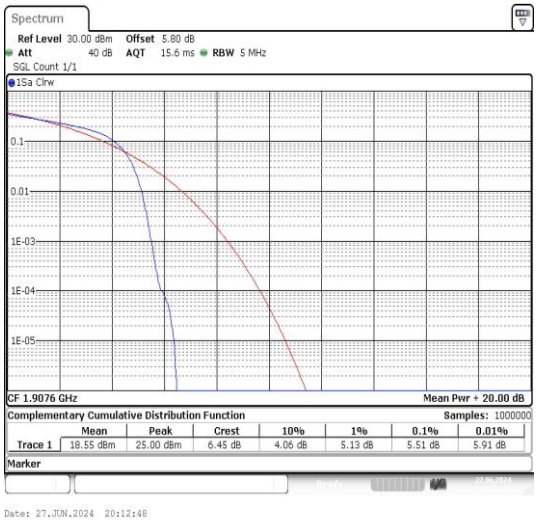
Band2-9538-1-PASS



Band2-9262-2-PASS

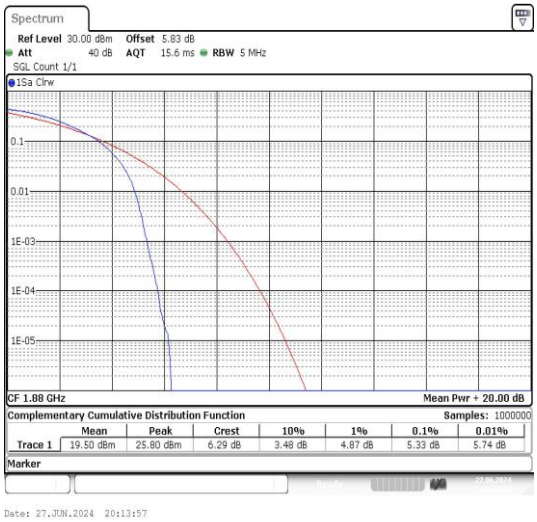


Band2-9400-2-PASS

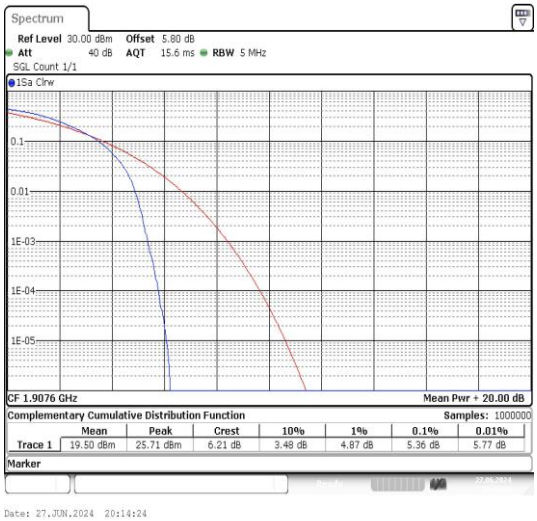


Band2-9538-2-PASS

Band2-9262-3-PASS

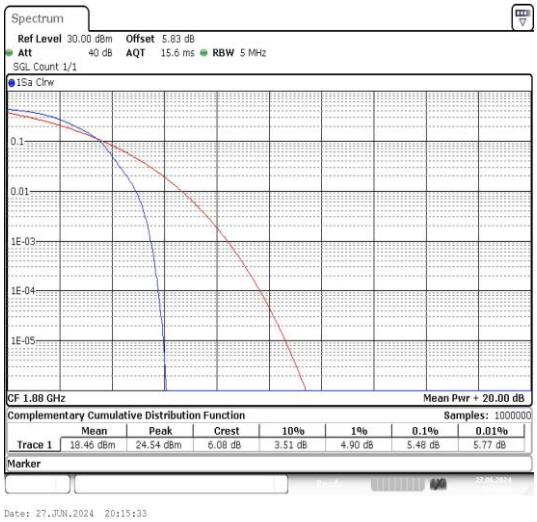


Band2-9400-3-PASS

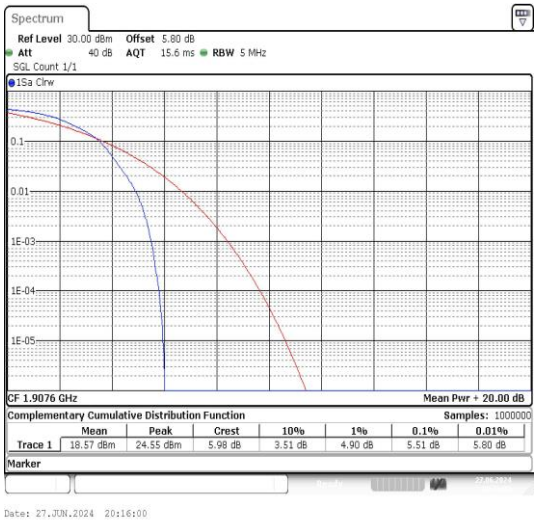


Band2-9538-3-PASS

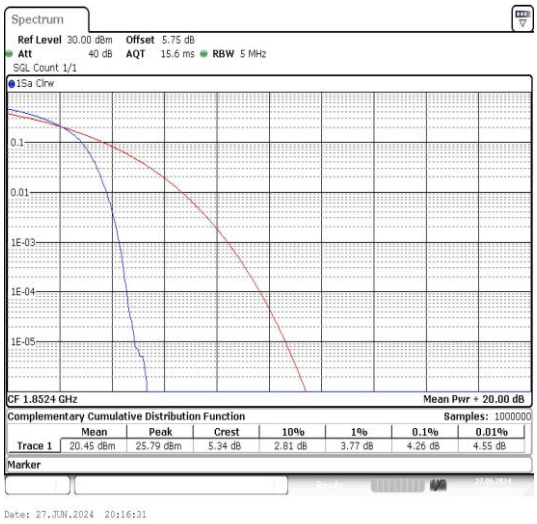
Band2-9262-4-PASS



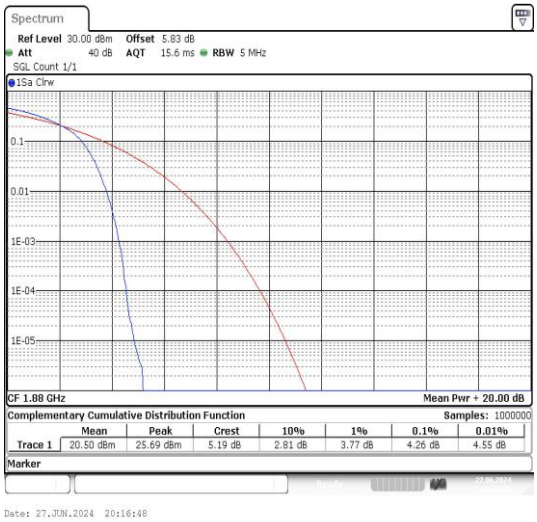
Band2-9400-4-PASS



Band2-9538-4-PASS



Band2-9262-5-PASS



Band2-9400-5-PASS

Band2-9538-5-PASS

AppendixC:26dB Bandwidth andOccupied Bandwidth

Test Result

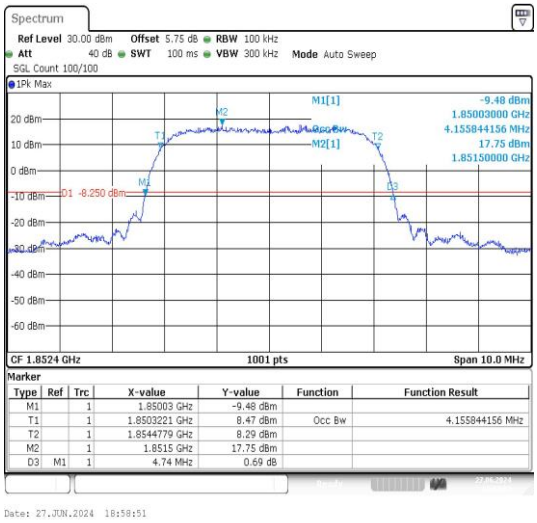
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	4.156	4.74	---	PASS
Band2	9400	4.146	4.72	---	PASS
Band2	9538	4.146	4.72	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.146	4.73	---	PASS
Band2	9400	1	4.146	4.74	---	PASS
Band2	9538	1	4.146	4.74	---	PASS
Band2	9262	2	4.156	4.75	---	PASS
Band2	9400	2	4.146	4.75	---	PASS
Band2	9538	2	4.136	4.74	---	PASS
Band2	9262	3	4.166	4.75	---	PASS
Band2	9400	3	4.156	4.75	---	PASS
Band2	9538	3	4.156	4.75	---	PASS
Band2	9262	4	4.156	4.76	---	PASS
Band2	9400	4	4.156	4.75	---	PASS
Band2	9538	4	4.156	4.76	---	PASS

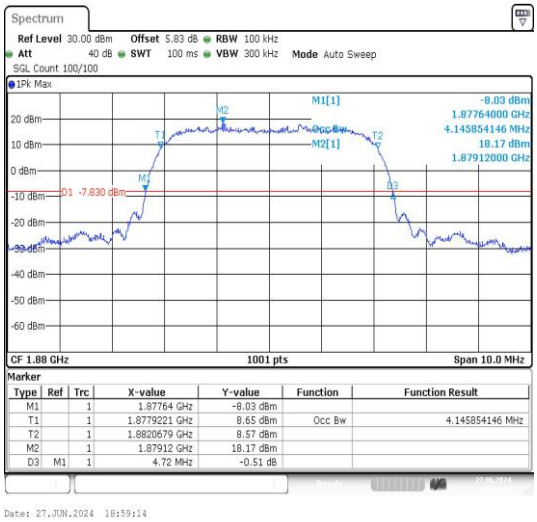
Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band2	9262	1	4.176	4.75	---	PASS
Band2	9400	1	4.176	4.74	---	PASS
Band2	9538	1	4.166	4.76	---	PASS
Band2	9262	2	4.176	4.77	---	PASS
Band2	9400	2	4.166	4.78	---	PASS
Band2	9538	2	4.166	4.76	---	PASS
Band2	9262	3	4.196	4.75	---	PASS
Band2	9400	3	4.176	4.76	---	PASS
Band2	9538	3	4.176	4.76	---	PASS
Band2	9262	4	4.166	4.76	---	PASS

Band2	9400	4	4.166	4.77	---	PASS
Band2	9538	4	4.176	4.75	---	PASS
Band2	9262	5	4.156	4.72	---	PASS
Band2	9400	5	4.146	4.73	---	PASS
Band2	9538	5	4.146	4.73	---	PASS

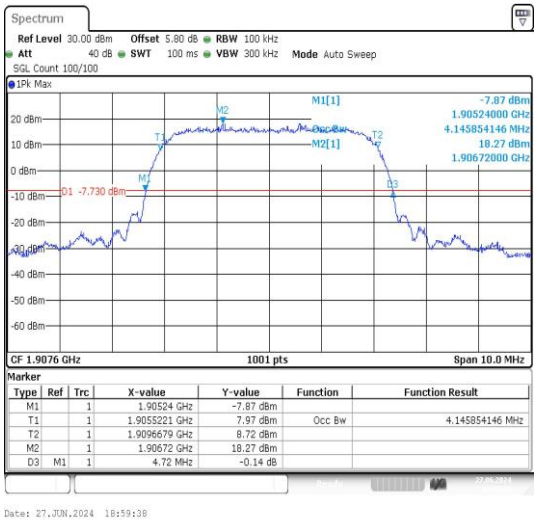
Test Graphs



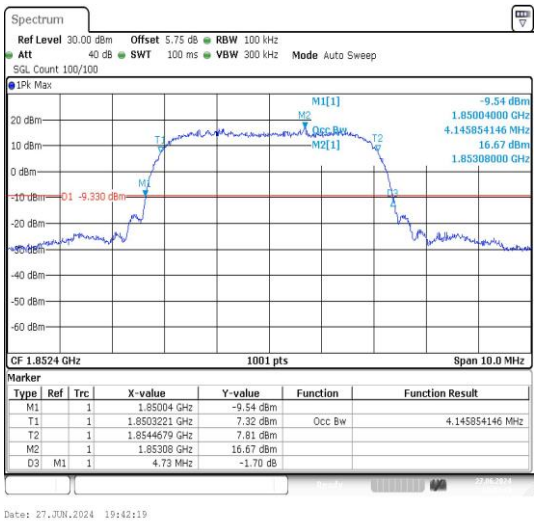
Band2-9262-PASS



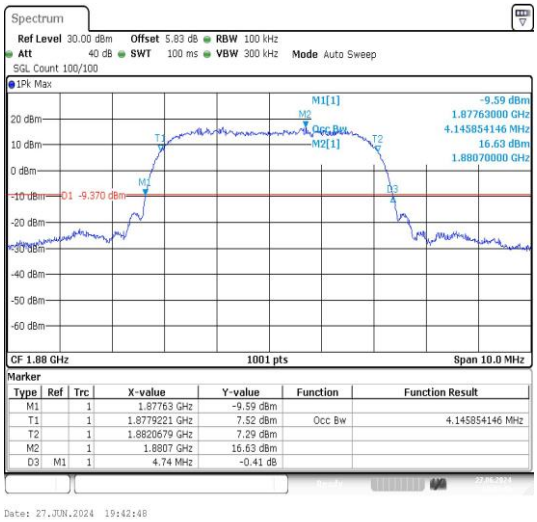
Band2-9400-PASS



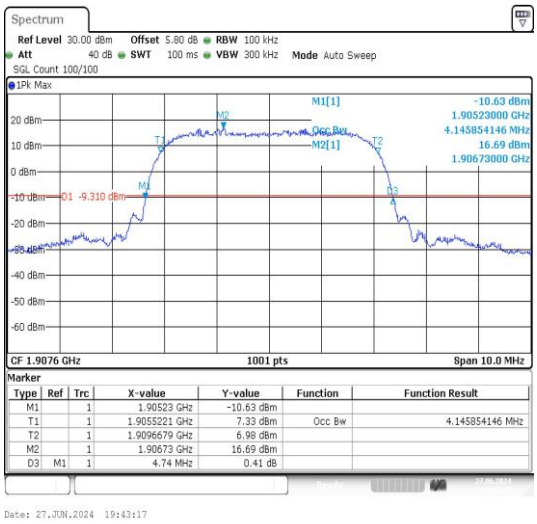
Band2-9538-PASS



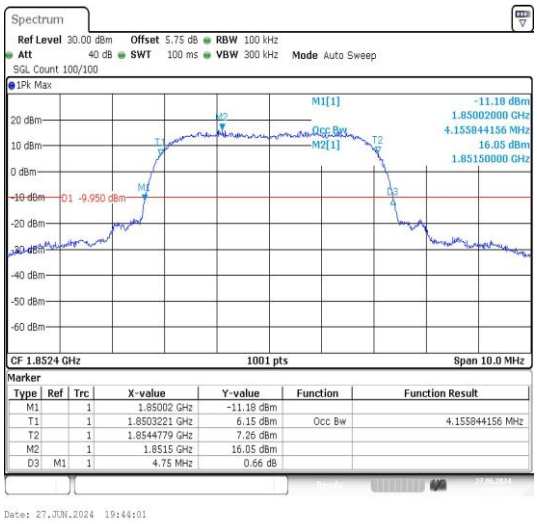
Band2-9262-1-PASS



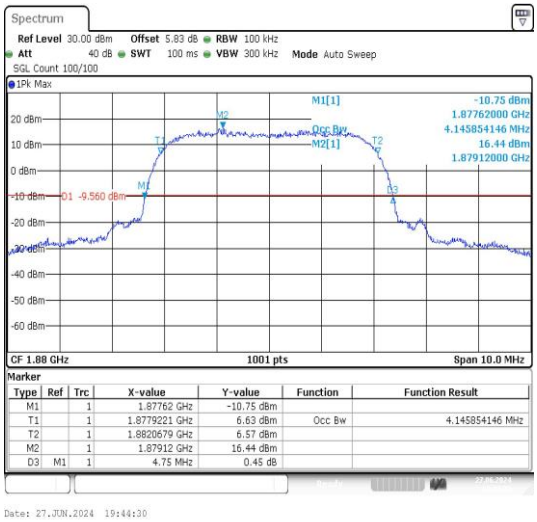
Band2-9400-1-PASS



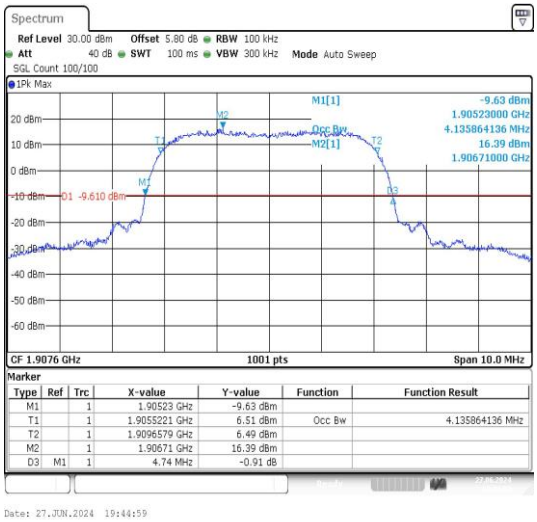
Band2-9538-1-PASS



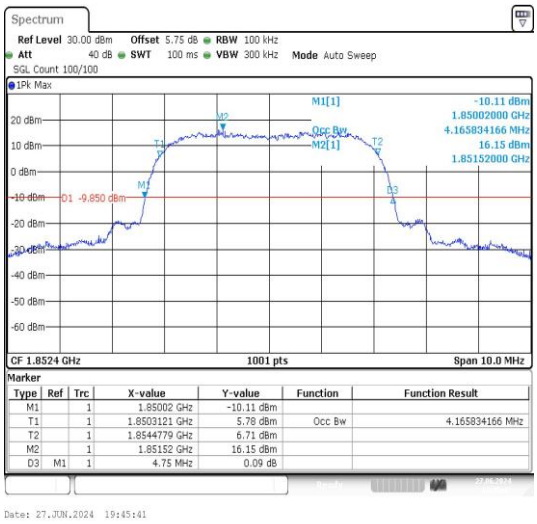
Band2-9262-2-PASS



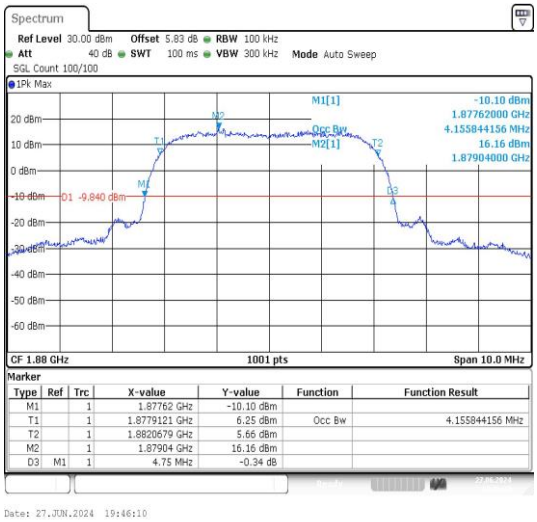
Band2-9400-2-PASS



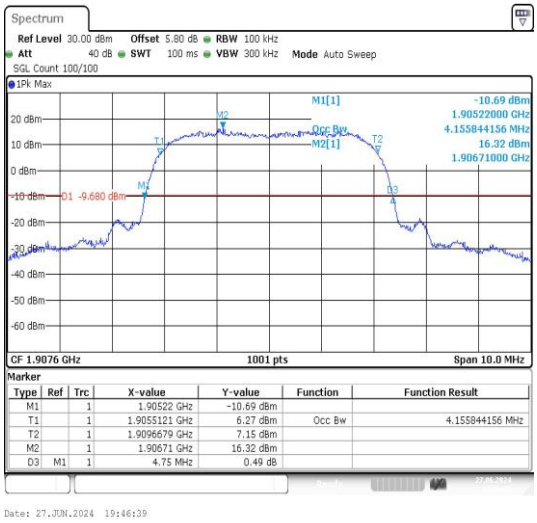
Band2-9538-2-PASS



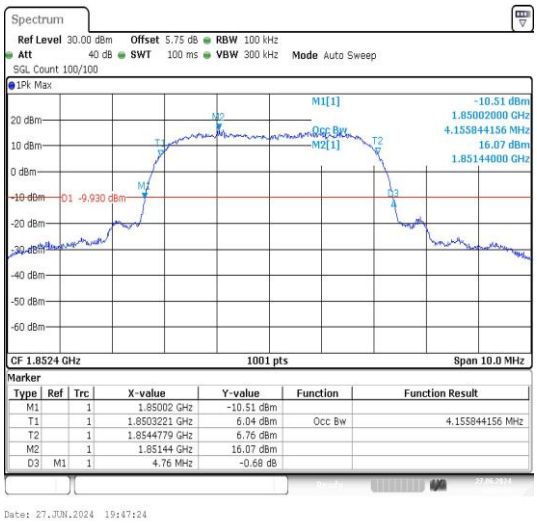
Band2-9262-3-PASS



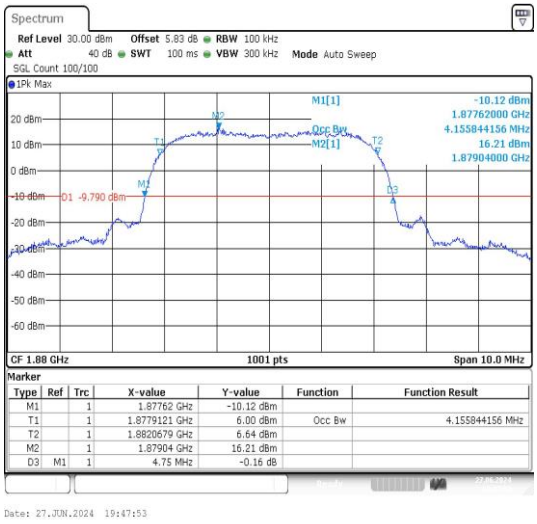
Band2-9400-3-PASS



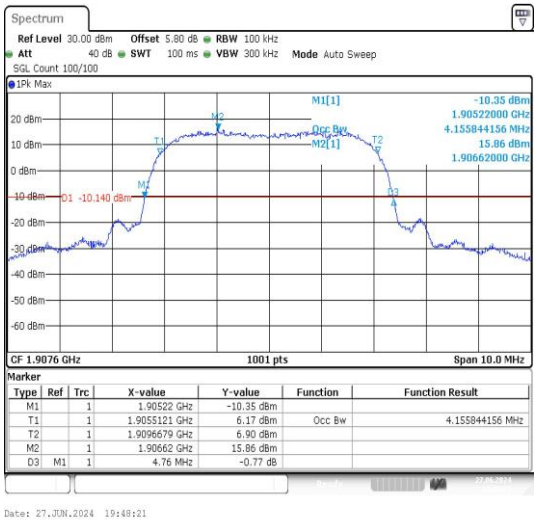
Band2-9538-3-PASS



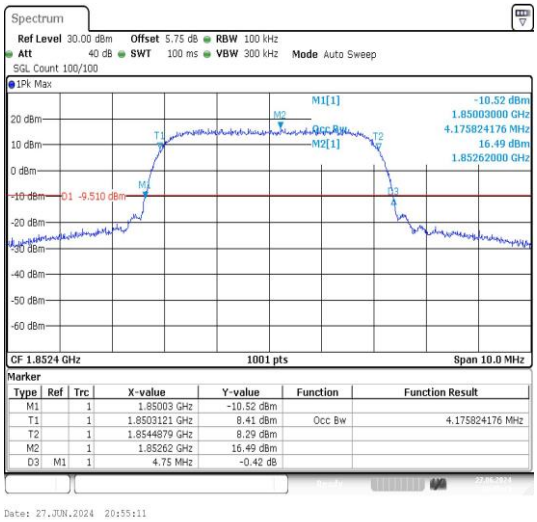
Band2-9262-4-PASS



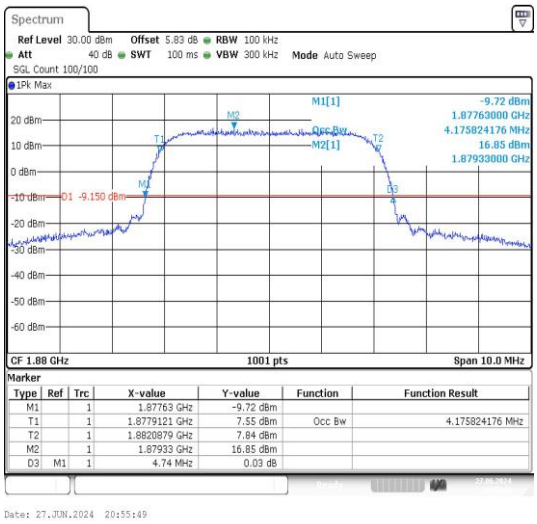
Band2-9400-4-PASS



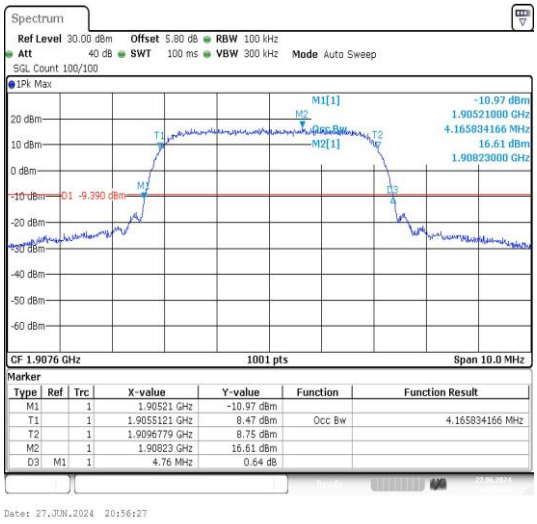
Band2-9538-4-PASS



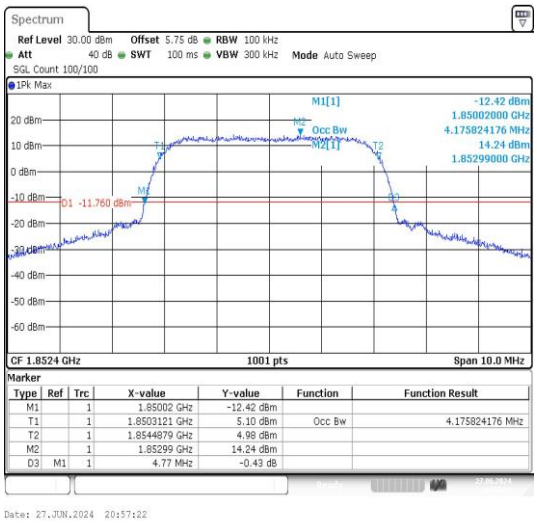
Band2-9262-1-PASS



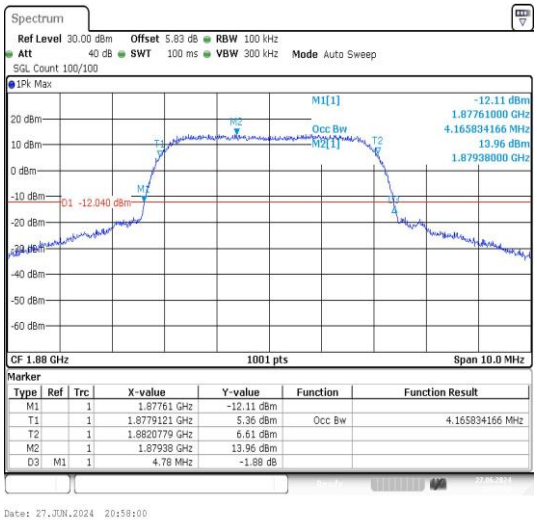
Band2-9400-1-PASS



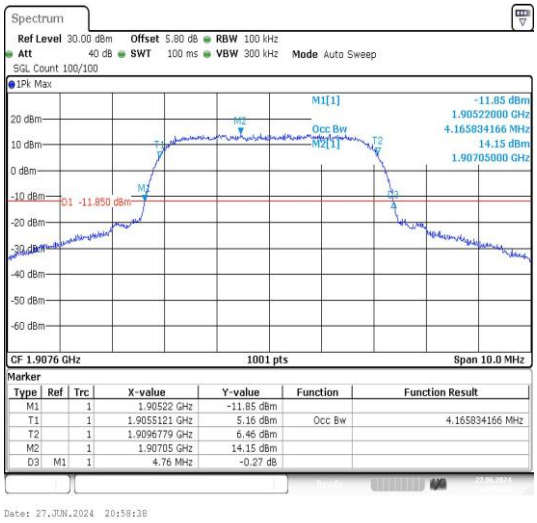
Band2-9538-1-PASS



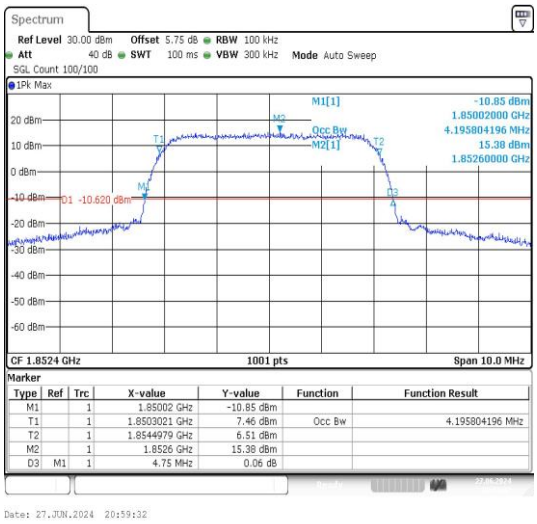
Band2-9262-2-PASS



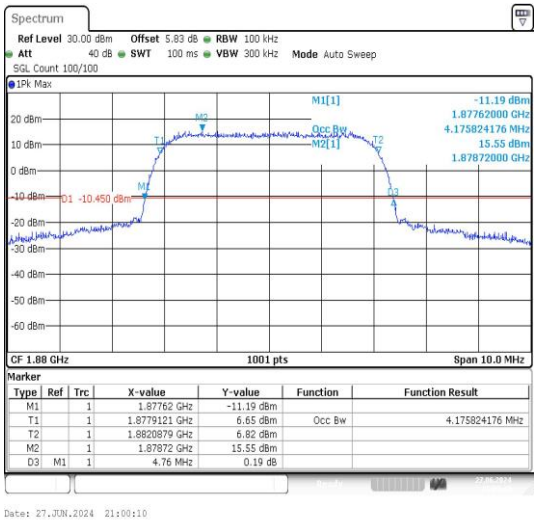
Band2-9400-2-PASS



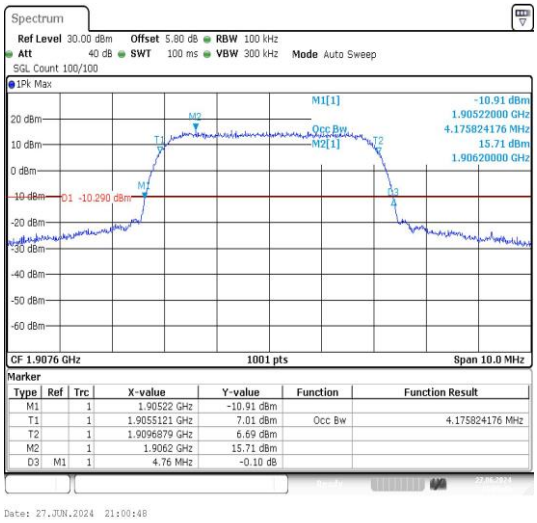
Band2-9538-2-PASS



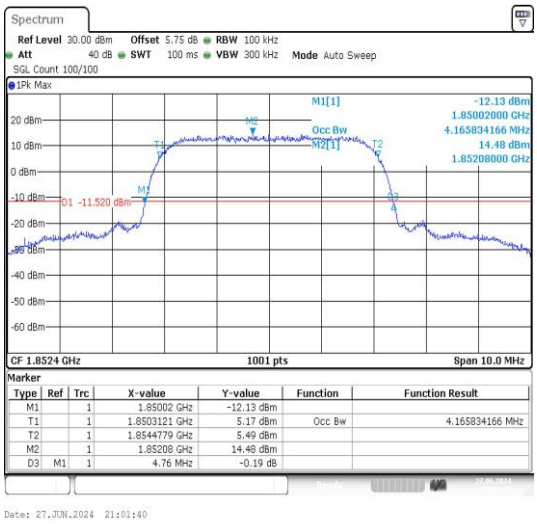
Band2-9262-3-PASS



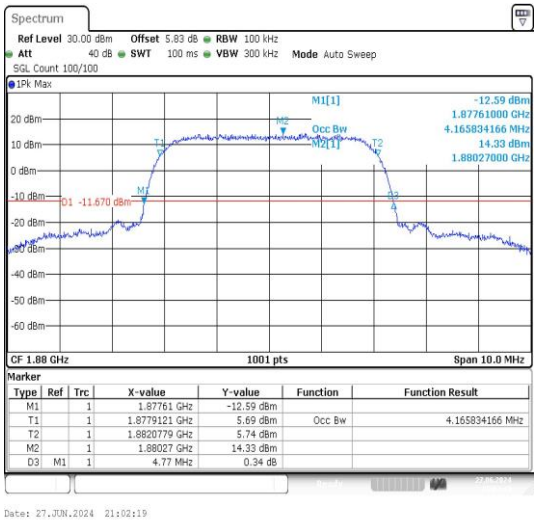
Band2-9400-3-PASS



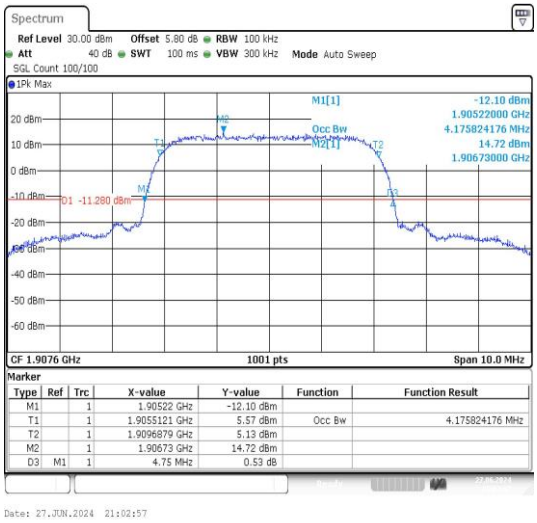
Band2-9538-3-PASS



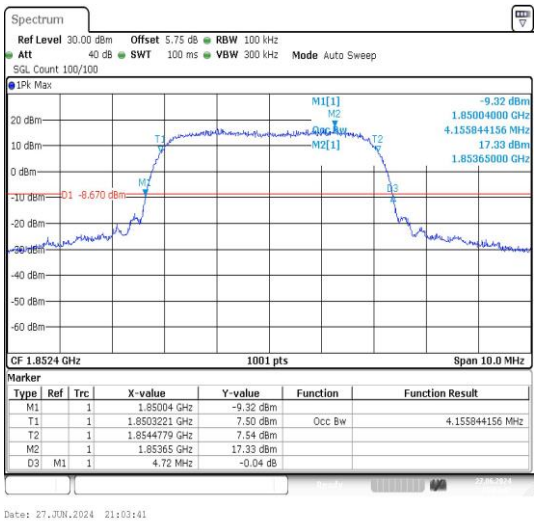
Band2-9262-4-PASS



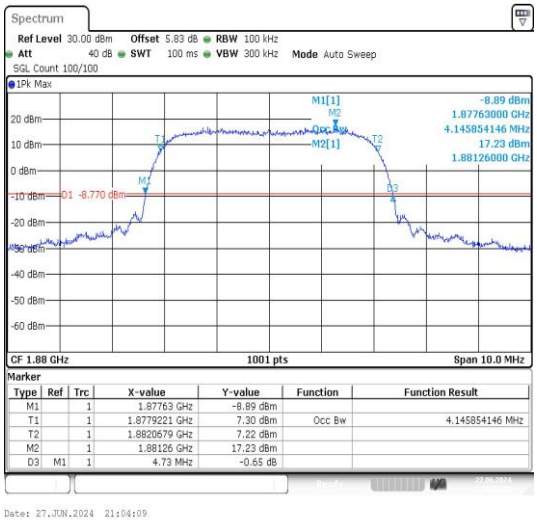
Band2-9400-4-PASS



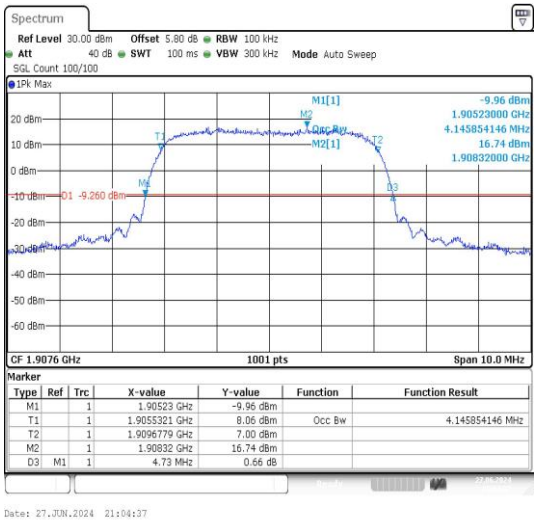
Band2-9538-4-PASS



Band2-9262-5-PASS



Band2-9400-5-PASS



Band2-9538-5-PASS

AppendixD:Band Edge

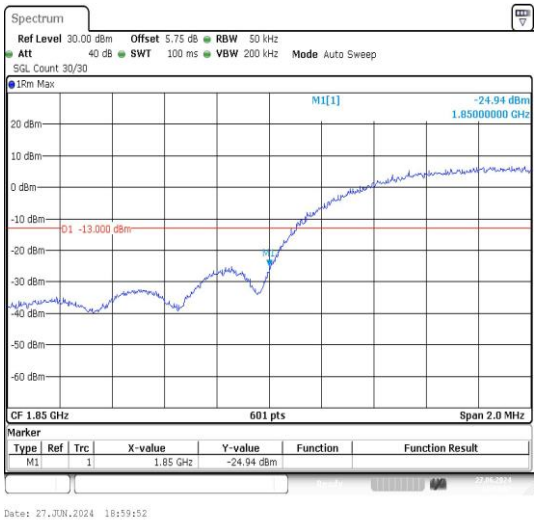
Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-24.94	-13	PASS
Band2	9538	1910.00	-25.36	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1	1849.85	-25.16	-13	PASS
Band2	9538	1	1910.13	-25.30	-13	PASS
Band2	9262	2	1849.99	-26.24	-13	PASS
Band2	9538	2	1910.00	-25.11	-13	PASS
Band2	9262	3	1850.00	-23.90	-13	PASS
Band2	9538	3	1910.00	-24.19	-13	PASS
Band2	9262	4	1850.00	-25.05	-13	PASS
Band2	9538	4	1910.00	-24.31	-13	PASS

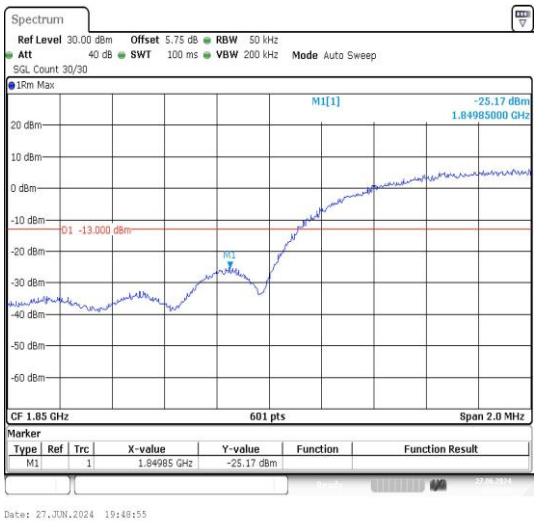
Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1	1849.87	-25.76	-13	PASS
Band2	9538	1	1910.16	-25.81	-13	PASS
Band2	9262	2	1849.99	-25.57	-13	PASS
Band2	9538	2	1910.00	-25.64	-13	PASS
Band2	9262	3	1850.00	-26.52	-13	PASS
Band2	9538	3	1910.00	-26.12	-13	PASS
Band2	9262	4	1849.89	-26.50	-13	PASS
Band2	9538	4	1910.14	-26.78	-13	PASS
Band2	9262	5	1849.85	-26.29	-13	PASS
Band2	9538	5	1910.19	-26.02	-13	PASS

Test Graphs



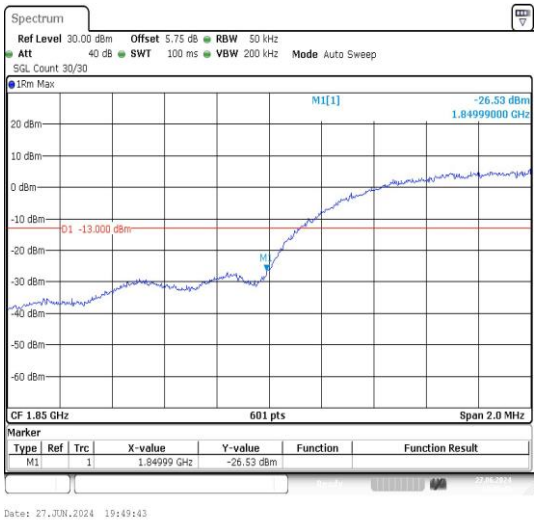
Band2-9262-PASS

Band2-9538-PASS



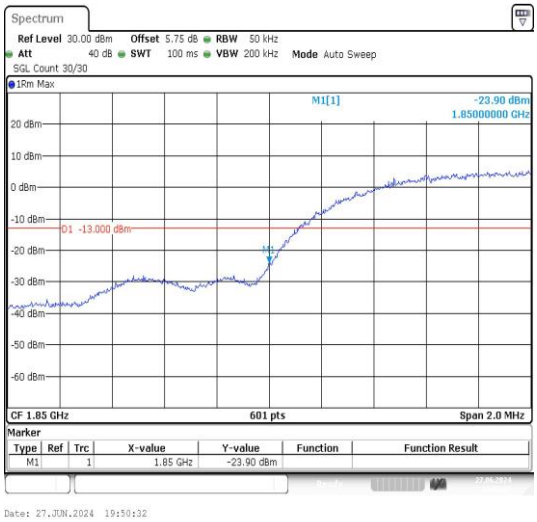
Band2-9262-1-PASS

Band2-9538-1-PASS



Band2-9262-2-PASS

Band2-9538-2-PASS

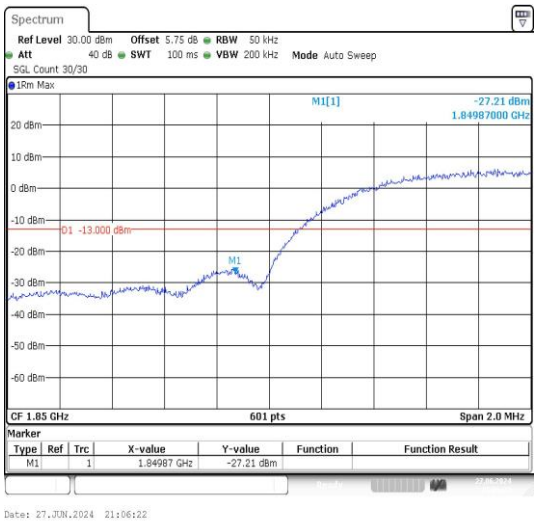


Band2-9262-3-PASS

Band2-9538-3-PASS

Band2-9262-4-PASS

Band2-9538-4-PASS

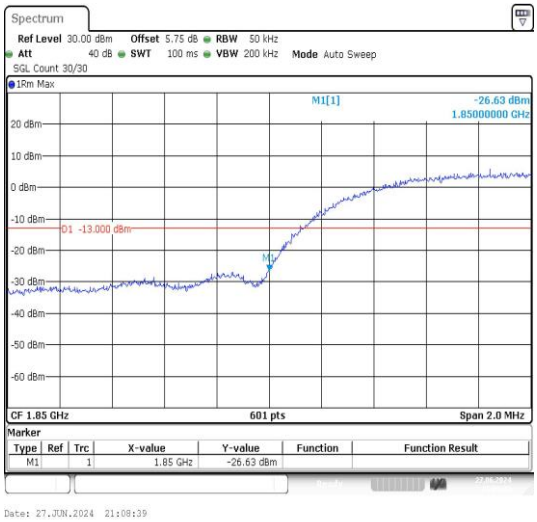


Band2-9262-1-PASS

Band2-9538-1-PASS

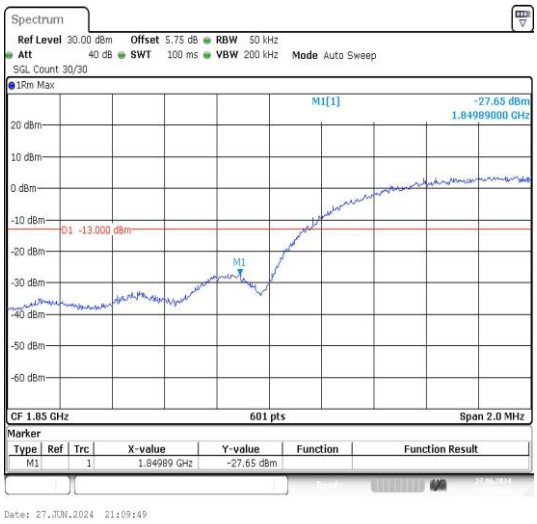
Band2-9262-2-PASS

Band2-9538-2-PASS



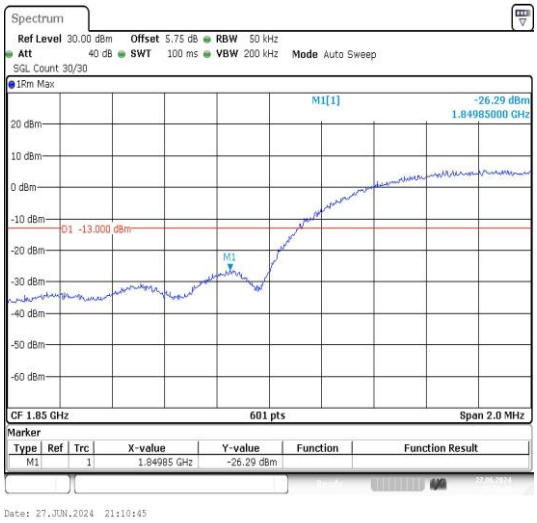
Band2-9262-3-PASS

Band2-9538-3-PASS



Band2-9262-4-PASS

Band2-9538-4-PASS



Band2-9262-5-PASS

Band2-9538-5-PASS

AppendixE: Conducted SpuriousEmission

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	0.009~0.15MHz	0.01	-76.51	-43	PASS
Band2	9262	0.15~30MHz	18.83	-72.52	-33	PASS
Band2	9262	30~1000MHz	948.86	-53.51	-13	PASS
Band2	9262	1000~20000MHz	6510	-44.2	-13	PASS
Band2	9400	0.009~0.15MHz	0.01	-76.53	-43	PASS
Band2	9400	0.15~30MHz	18.92	-72.26	-33	PASS
Band2	9400	30~1000MHz	986.67	-53.55	-13	PASS
Band2	9400	1000~20000MHz	6880.5	-44.06	-13	PASS
Band2	9538	0.009~0.15MHz	0.01	-76.69	-43	PASS
Band2	9538	0.15~30MHz	0.25	-73.14	-33	PASS
Band2	9538	30~1000MHz	990.55	-53.48	-13	PASS
Band2	9538	1000~20000MHz	6966	-44.13	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	1	0.009~0.15MHz	0.01	-76.63	-43	PASS
Band2	9262	1	0.15~30MHz	0.25	-72.47	-33	PASS
Band2	9262	1	30~1000MHz	984.73	-53.66	-13	PASS
Band2	9262	1	1000~20000MHz	6871	-44.1	-13	PASS
Band2	9400	1	0.009~0.15MHz	0.01	-76.24	-43	PASS
Band2	9400	1	0.15~30MHz	0.2	-71.73	-33	PASS
Band2	9400	1	30~1000MHz	993.94	-53.51	-13	PASS
Band2	9400	1	1000~20000MHz	6861.5	-43.95	-13	PASS
Band2	9538	1	0.009~0.15MHz	0.01	-76.45	-43	PASS
Band2	9538	1	0.15~30MHz	27.09	-72.77	-33	PASS
Band2	9538	1	30~1000MHz	991.03	-53.6	-13	PASS
Band2	9538	1	1000~20000MHz	6529	-44.19	-13	PASS
Band2	9262	2	0.009~0.15MHz	0.01	-76.42	-43	PASS
Band2	9262	2	0.15~30MHz	0.17	-72.16	-33	PASS
Band2	9262	2	30~1000MHz	884.87	-53.64	-13	PASS
Band2	9262	2	1000~20000MHz	6510	-44.09	-13	PASS
Band2	9400	2	0.009~0.15MHz	0.01	-76.57	-43	PASS
Band2	9400	2	0.15~30MHz	0.2	-72.23	-33	PASS
Band2	9400	2	30~1000MHz	982.79	-53.63	-13	PASS
Band2	9400	2	1000~20000MHz	6833	-44.05	-13	PASS
Band2	9538	2	0.009~0.15MHz	0.01	-76.55	-43	PASS

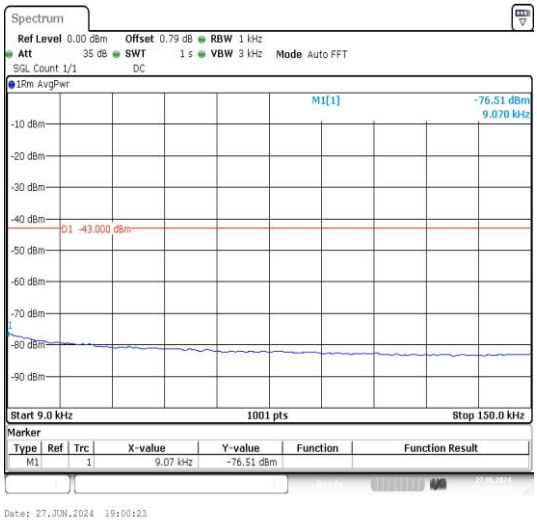
Band2	9538	2	0.15~30MHz	0.17	-71.61	-33	PASS
Band2	9538	2	30~1000MHz	979.4	-53.46	-13	PASS
Band2	9538	2	1000~20000MHz	6814	-44.05	-13	PASS
Band2	9262	3	0.009~0.15MHz	0.01	-76.39	-43	PASS
Band2	9262	3	0.15~30MHz	18.39	-72.32	-33	PASS
Band2	9262	3	30~1000MHz	946.43	-53.56	-13	PASS
Band2	9262	3	1000~20000MHz	6510	-44.03	-13	PASS
Band2	9400	3	0.009~0.15MHz	0.01	-76.38	-43	PASS
Band2	9400	3	0.15~30MHz	0.17	-71.68	-33	PASS
Band2	9400	3	30~1000MHz	995.39	-53.34	-13	PASS
Band2	9400	3	1000~20000MHz	6899.5	-44.16	-13	PASS
Band2	9538	3	0.009~0.15MHz	0.01	-76.7	-43	PASS
Band2	9538	3	0.15~30MHz	0.17	-71.82	-33	PASS
Band2	9538	3	30~1000MHz	995.39	-53.48	-13	PASS
Band2	9538	3	1000~20000MHz	6500.5	-44.12	-13	PASS
Band2	9262	4	0.009~0.15MHz	0.01	-76.63	-43	PASS
Band2	9262	4	0.15~30MHz	0.97	-72.64	-33	PASS
Band2	9262	4	30~1000MHz	962.43	-53.41	-13	PASS
Band2	9262	4	1000~20000MHz	6529	-44.07	-13	PASS
Band2	9400	4	0.009~0.15MHz	0.01	-76.22	-43	PASS
Band2	9400	4	0.15~30MHz	0.97	-72.18	-33	PASS
Band2	9400	4	30~1000MHz	992.49	-53.44	-13	PASS
Band2	9400	4	1000~20000MHz	6519.5	-44.21	-13	PASS
Band2	9538	4	0.009~0.15MHz	0.01	-76.35	-43	PASS
Band2	9538	4	0.15~30MHz	0.17	-72.81	-33	PASS
Band2	9538	4	30~1000MHz	963.4	-53.42	-13	PASS
Band2	9538	4	1000~20000MHz	6519.5	-44.19	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band2	9262	1	0.009~0.15MHz	0.01	-76.8	-43	PASS
Band2	9262	1	0.15~30MHz	19.04	-71.89	-33	PASS
Band2	9262	1	30~1000MHz	940.62	-53.5	-13	PASS
Band2	9262	1	1000~20000MHz	6529	-44.09	-13	PASS
Band2	9400	1	0.009~0.15MHz	0.01	-76.8	-43	PASS
Band2	9400	1	0.15~30MHz	20.12	-71.53	-33	PASS
Band2	9400	1	30~1000MHz	956.13	-53.54	-13	PASS
Band2	9400	1	1000~20000MHz	6890	-44.04	-13	PASS
Band2	9538	1	0.009~0.15MHz	0.01	-76.45	-43	PASS
Band2	9538	1	0.15~30MHz	0.17	-72.8	-33	PASS
Band2	9538	1	30~1000MHz	997.33	-53.47	-13	PASS

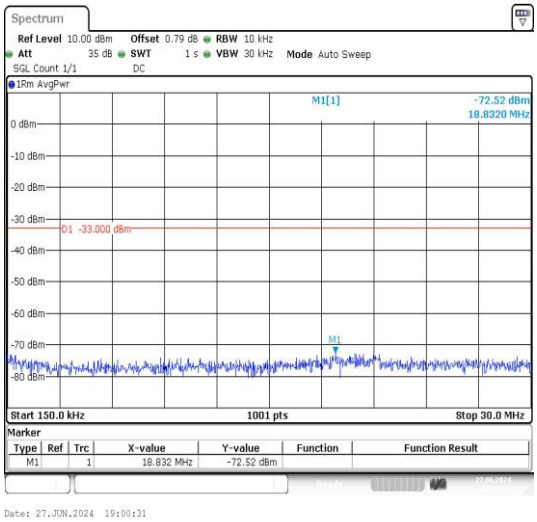
Band2	9538	1	1000~20000MHz	6823.5	-44.07	-13	PASS
Band2	9262	2	0.009~0.15MHz	0.01	-76.49	-43	PASS
Band2	9262	2	0.15~30MHz	19.34	-72.62	-33	PASS
Band2	9262	2	30~1000MHz	994.91	-53.52	-13	PASS
Band2	9262	2	1000~20000MHz	6861.5	-44.06	-13	PASS
Band2	9400	2	0.009~0.15MHz	0.01	-76.45	-43	PASS
Band2	9400	2	0.15~30MHz	0.61	-72.44	-33	PASS
Band2	9400	2	30~1000MHz	990.55	-53.45	-13	PASS
Band2	9400	2	1000~20000MHz	6852	-44.01	-13	PASS
Band2	9538	2	0.009~0.15MHz	0.01	-76.51	-43	PASS
Band2	9538	2	0.15~30MHz	20.09	-73.05	-33	PASS
Band2	9538	2	30~1000MHz	982.79	-53.56	-13	PASS
Band2	9538	2	1000~20000MHz	6861.5	-44.19	-13	PASS
Band2	9262	3	0.009~0.15MHz	0.01	-76.4	-43	PASS
Band2	9262	3	0.15~30MHz	18.39	-72.54	-33	PASS
Band2	9262	3	30~1000MHz	996.36	-53.48	-13	PASS
Band2	9262	3	1000~20000MHz	6890	-44.03	-13	PASS
Band2	9400	3	0.009~0.15MHz	0.01	-76.63	-43	PASS
Band2	9400	3	0.15~30MHz	18.71	-72.85	-33	PASS
Band2	9400	3	30~1000MHz	987.15	-53.46	-13	PASS
Band2	9400	3	1000~20000MHz	6500.5	-44.2	-13	PASS
Band2	9538	3	0.009~0.15MHz	0.01	-76.47	-43	PASS
Band2	9538	3	0.15~30MHz	0.23	-72.87	-33	PASS
Band2	9538	3	30~1000MHz	998.3	-53.51	-13	PASS
Band2	9538	3	1000~20000MHz	6567	-44.16	-13	PASS
Band2	9262	4	0.009~0.15MHz	0.01	-76.52	-43	PASS
Band2	9262	4	0.15~30MHz	0.46	-72.77	-33	PASS
Band2	9262	4	30~1000MHz	998.3	-53.48	-13	PASS
Band2	9262	4	1000~20000MHz	6804.5	-44.05	-13	PASS
Band2	9400	4	0.009~0.15MHz	0.01	-76.48	-43	PASS
Band2	9400	4	0.15~30MHz	0.17	-72.61	-33	PASS
Band2	9400	4	30~1000MHz	999.27	-53.53	-13	PASS
Band2	9400	4	1000~20000MHz	6861.5	-44.15	-13	PASS
Band2	9538	4	0.009~0.15MHz	0.01	-76.38	-43	PASS
Band2	9538	4	0.15~30MHz	20.62	-72.59	-33	PASS
Band2	9538	4	30~1000MHz	990.06	-53.38	-13	PASS
Band2	9538	4	1000~20000MHz	6567	-44.12	-13	PASS
Band2	9262	5	0.009~0.15MHz	0.01	-76.48	-43	PASS
Band2	9262	5	0.15~30MHz	0.2	-71.23	-33	PASS
Band2	9262	5	30~1000MHz	996.36	-53.59	-13	PASS
Band2	9262	5	1000~20000MHz	6842.5	-44.11	-13	PASS
Band2	9400	5	0.009~0.15MHz	0.01	-76.54	-43	PASS

Band2	9400	5	0.15~30MHz	0.49	-73.06	-33	PASS
Band2	9400	5	30~1000MHz	973.58	-53.51	-13	PASS
Band2	9400	5	1000~20000MHz	6890	-44.16	-13	PASS
Band2	9538	5	0.009~0.15MHz	0.01	-76.46	-43	PASS
Band2	9538	5	0.15~30MHz	28.64	-72.36	-33	PASS
Band2	9538	5	30~1000MHz	997.82	-53.54	-13	PASS
Band2	9538	5	1000~20000MHz	6909	-44.19	-13	PASS

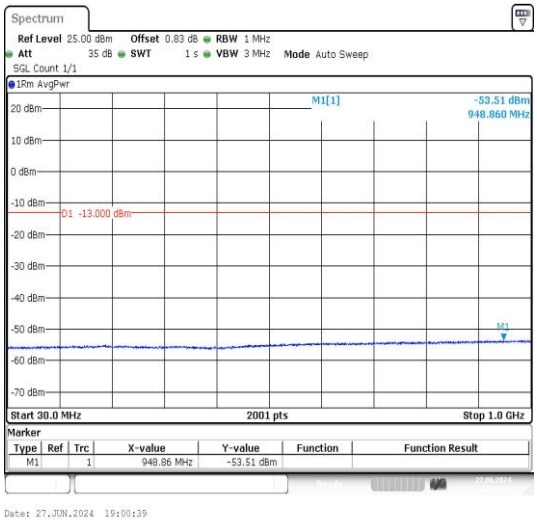
Test Graphs



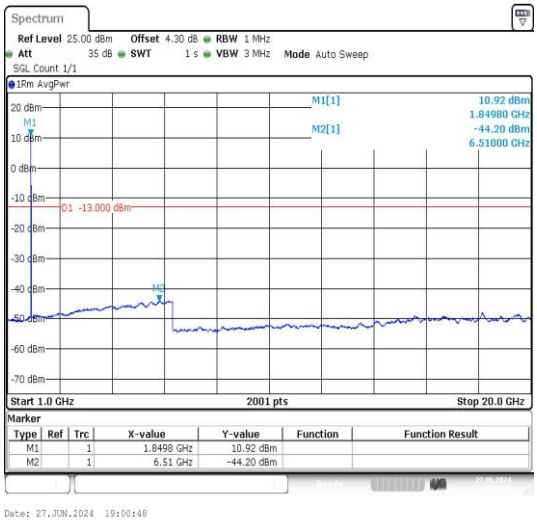
Band2-9262-0.009~0.15MHz-PASS



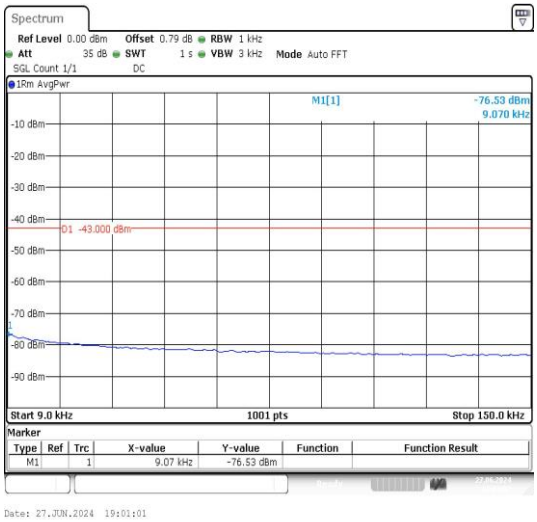
Band2-9262-0.15~30MHz-PASS



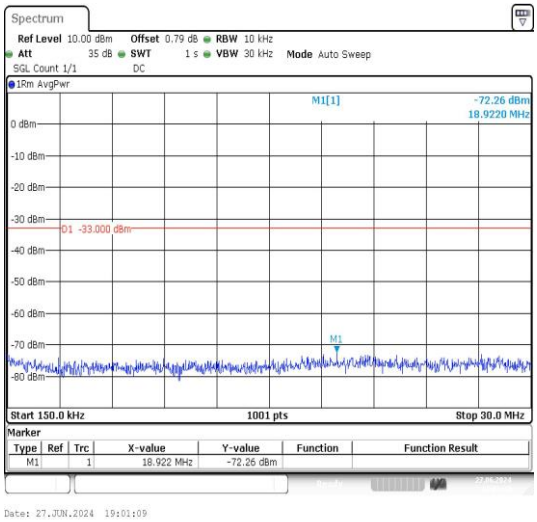
Band2-9262-30~1000MHz-PASS



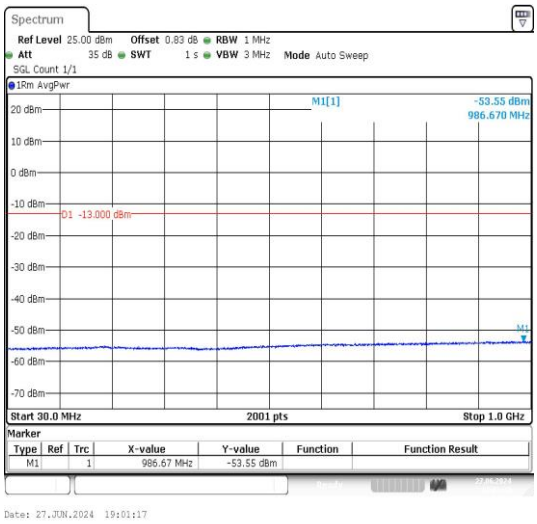
Band2-9262-1000~20000MHz-PASS



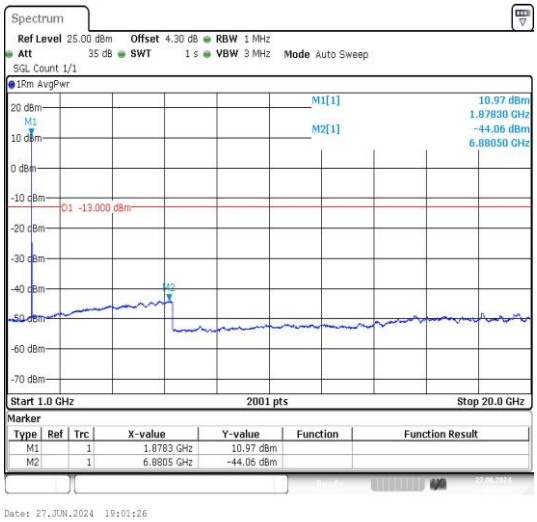
Band2-9400-0.009~0.15MHz-PASS



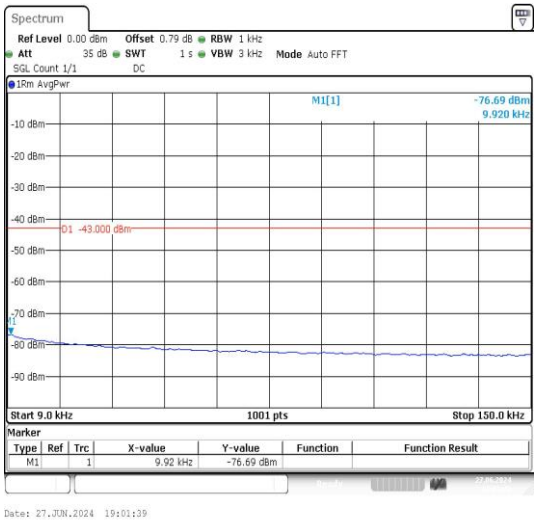
Band2-9400-0.15~30MHz-PASS



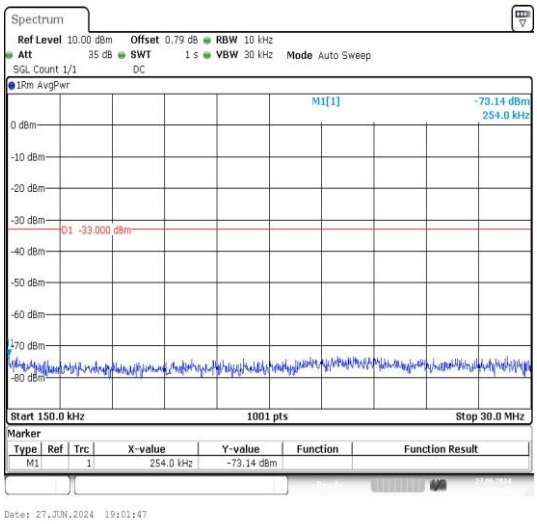
Band2-9400-30~1000MHz-PASS



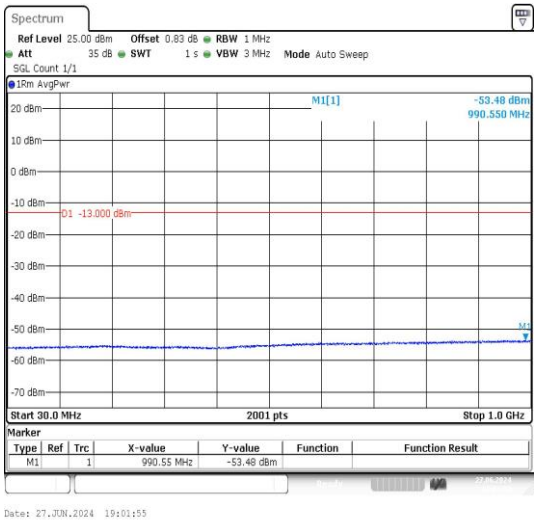
Band2-9400-1000~20000MHz-PASS



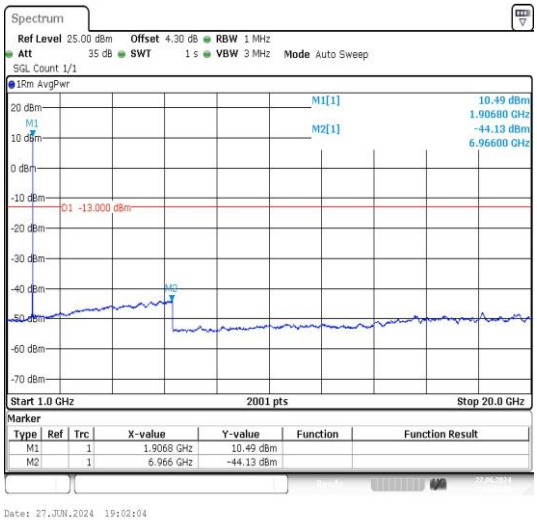
Band2-9538-0.009~0.15MHz-PASS



Band2-9538-0.15~30MHz-PASS



Band2-9538-30~1000MHz-PASS



Band2-9538-1000~20000MHz-PASS