

APPENDIX B: TEST RESULTS FOR UTRA OPERATING BAND 4

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APPENDIX B.1: EFFECTIVE (ISOTROPIC) RADIATED POWER

Test Result

WCDMA

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	23.81	26.61	30	PASS
Band4	1413	23.71	26.51	30	PASS
Band4	1513	23.55	26.35	30	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	1	22.59	25.39	30	PASS
Band4	1312	2	22.18	24.98	30	PASS
Band4	1312	3	22.12	24.92	30	PASS
Band4	1312	4	22.24	25.04	30	PASS
Band4	1413	1	22.57	25.37	30	PASS
Band4	1413	2	22.15	24.95	30	PASS
Band4	1413	3	22.25	25.05	30	PASS
Band4	1413	4	22.07	24.87	30	PASS
Band4	1513	1	22.47	25.27	30	PASS
Band4	1513	2	22.03	24.83	30	PASS
Band4	1513	3	22.05	24.85	30	PASS
Band4	1513	4	22.08	24.88	30	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	1	22.37	25.17	30	PASS
Band4	1312	2	21.74	24.54	30	PASS
Band4	1312	3	11.22	14.02	30	PASS
Band4	1312	4	21.59	24.39	30	PASS
Band4	1312	5	22.78	25.58	30	PASS
Band4	1413	1	22.18	24.98	30	PASS
Band4	1413	2	21.31	24.11	30	PASS
Band4	1413	3	21.12	23.92	30	PASS
Band4	1413	4	21.60	24.4	30	PASS
Band4	1413	5	22.82	25.62	30	PASS
Band4	1513	1	21.99	24.79	30	PASS
Band4	1513	2	21.55	24.35	30	PASS
Band4	1513	3	20.50	23.3	30	PASS
Band4	1513	4	21.93	24.73	30	PASS
Band4	1513	5	22.51	25.31	30	PASS

APPENDIX B.2: PEAK-TO AVERAGE RATIO

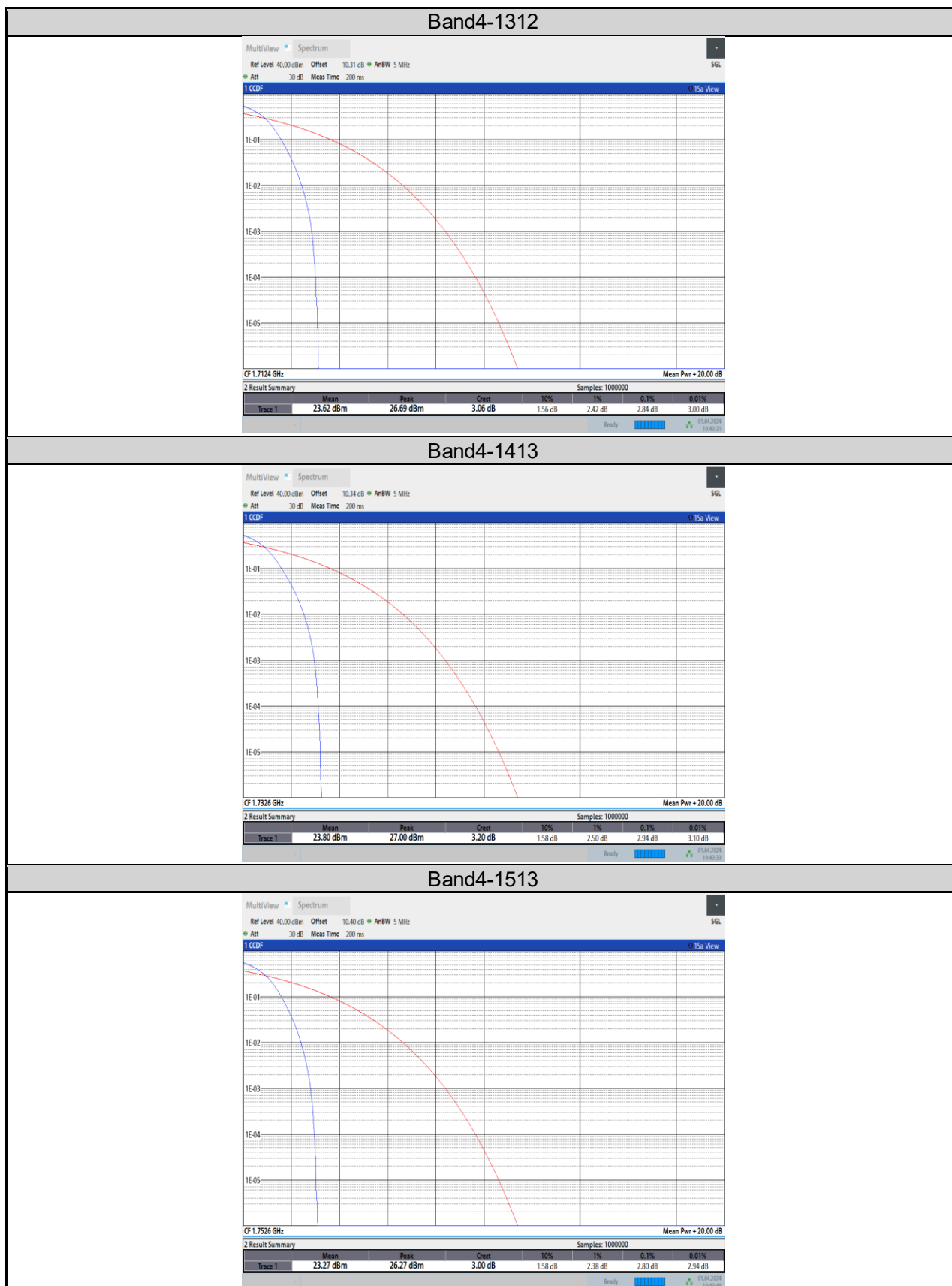
Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	2.84	13	PASS
Band4	1413	2.94	13	PASS
Band4	1513	2.8	13	PASS

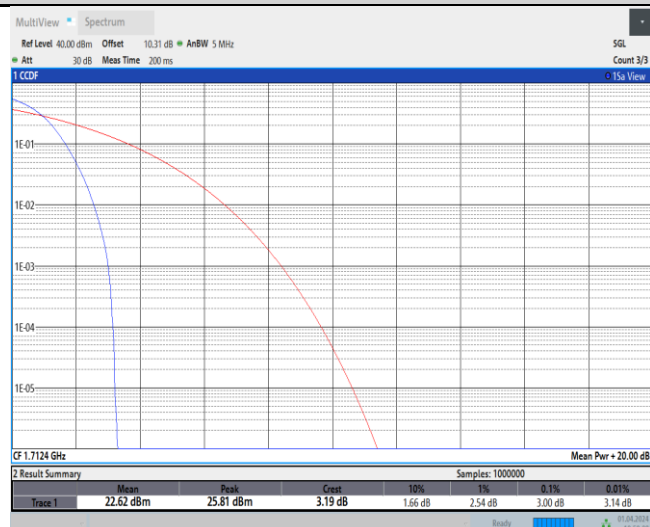
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	3	13	PASS
Band4	1312	2	3.42	13	PASS
Band4	1312	3	3.64	13	PASS
Band4	1312	4	3.66	13	PASS
Band4	1413	1	3.1	13	PASS
Band4	1413	2	3.5	13	PASS
Band4	1413	3	3.7	13	PASS
Band4	1413	4	3.74	13	PASS
Band4	1513	1	2.84	13	PASS
Band4	1513	2	3.4	13	PASS
Band4	1513	3	3.58	13	PASS
Band4	1513	4	3.64	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	4.38	13	PASS
Band4	1312	2	5.06	13	PASS
Band4	1312	3	5.26	13	PASS
Band4	1312	4	4.62	13	PASS
Band4	1312	5	3.9	13	PASS
Band4	1413	1	4.6	13	PASS
Band4	1413	2	5.5	13	PASS
Band4	1413	3	5.36	13	PASS
Band4	1413	4	5.46	13	PASS
Band4	1413	5	4.92	13	PASS
Band4	1513	1	4.62	13	PASS
Band4	1513	2	5.5	13	PASS
Band4	1513	3	5.4	13	PASS
Band4	1513	4	5.4	13	PASS
Band4	1513	5	4.9	13	PASS

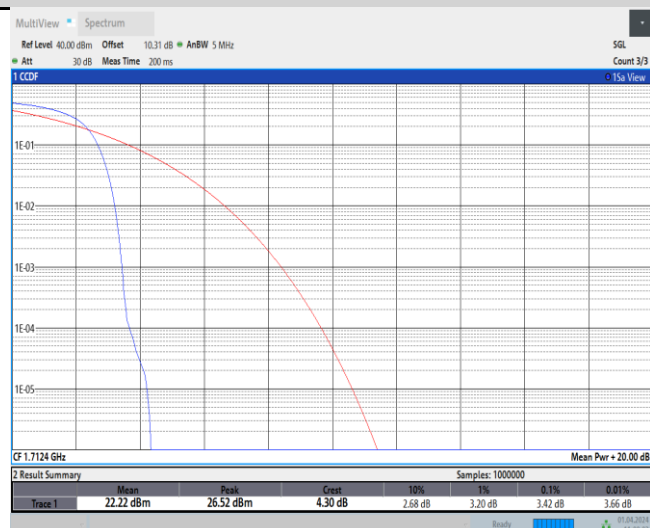
Test Graphs



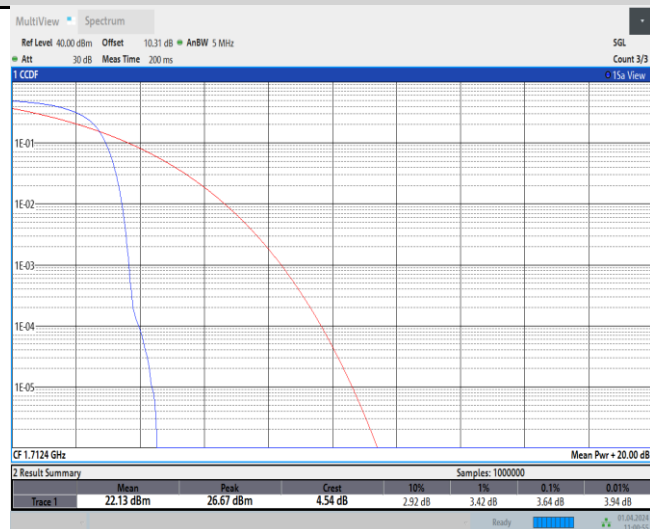
Band4-1312-1



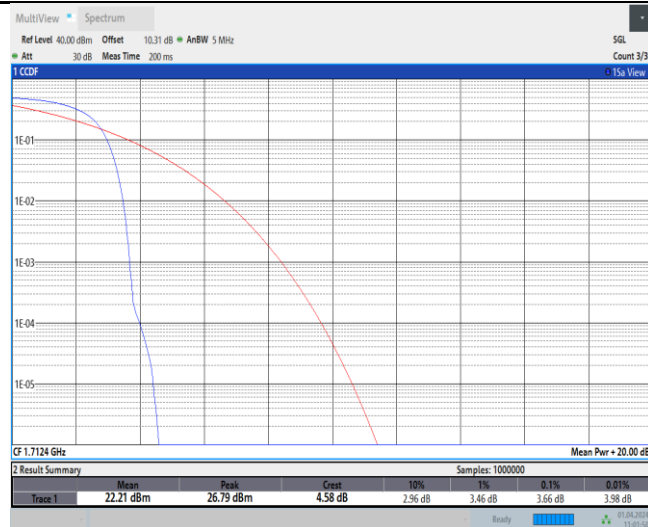
Band4-1312-2



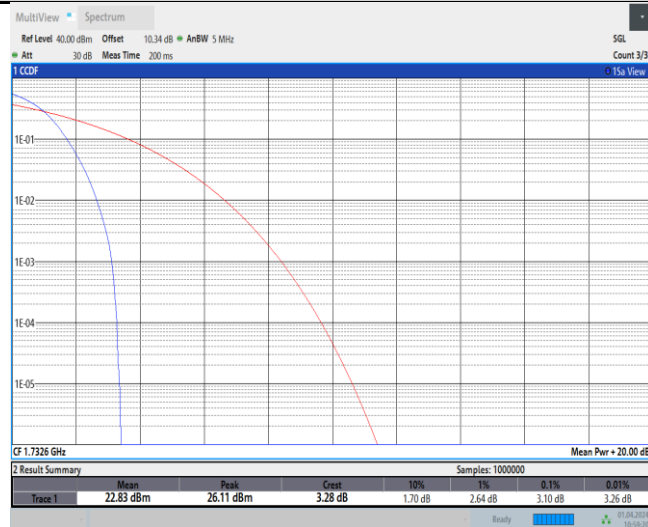
Band4-1312-3



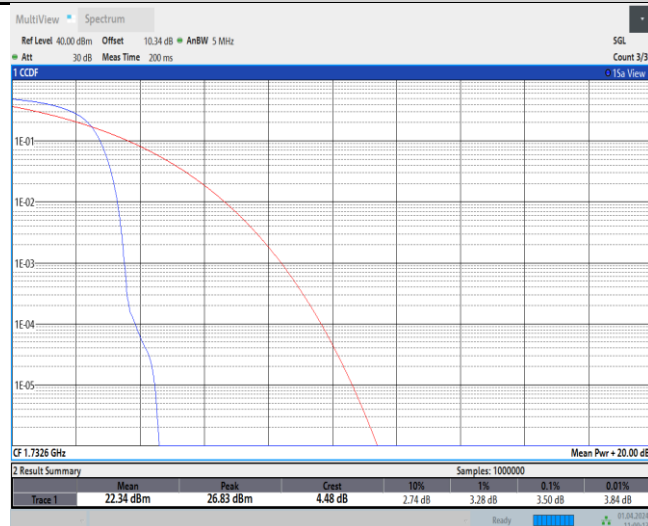
Band4-1312-4



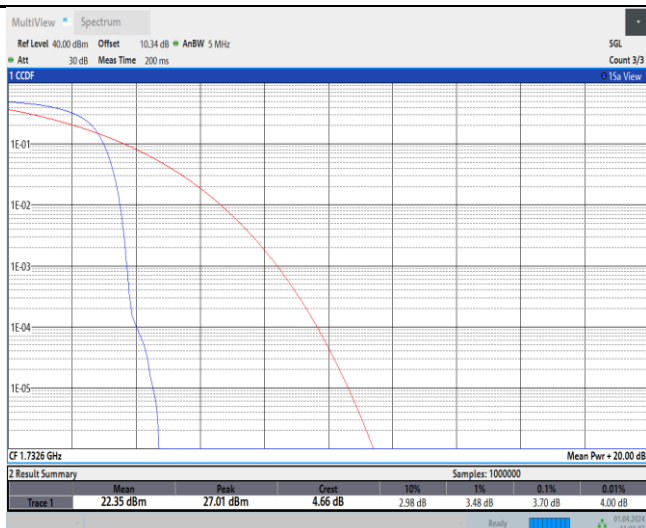
Band4-1413-1



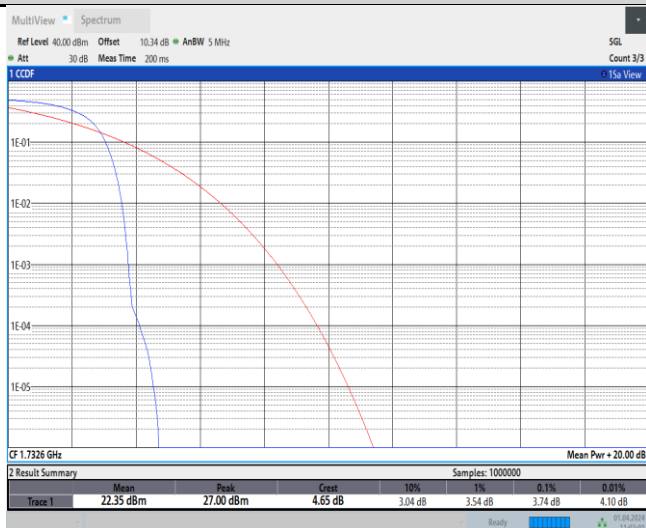
Band4-1413-2



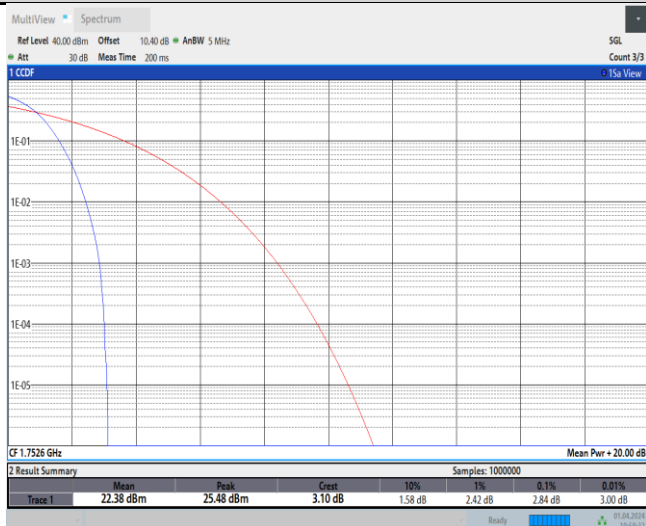
Band4-1413-3



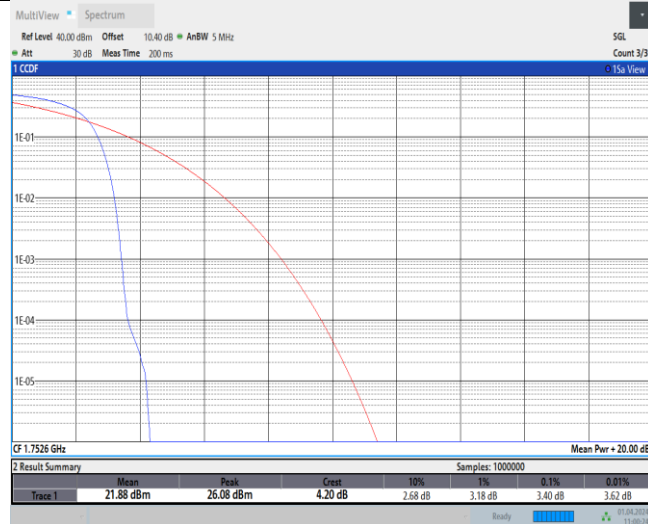
Band4-1413-4



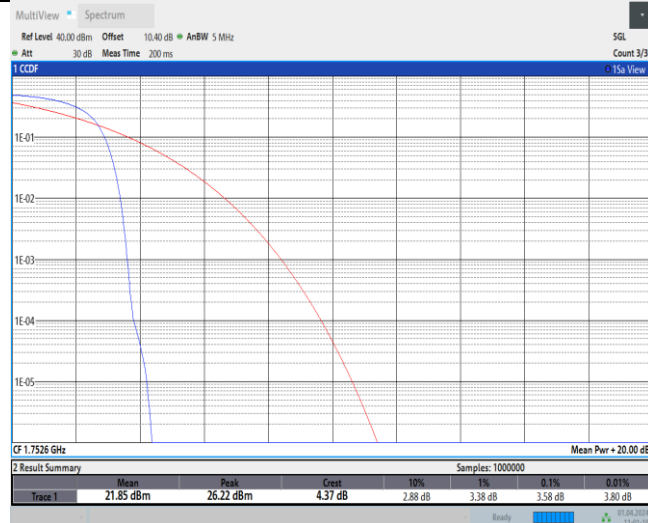
Band4-1513-1



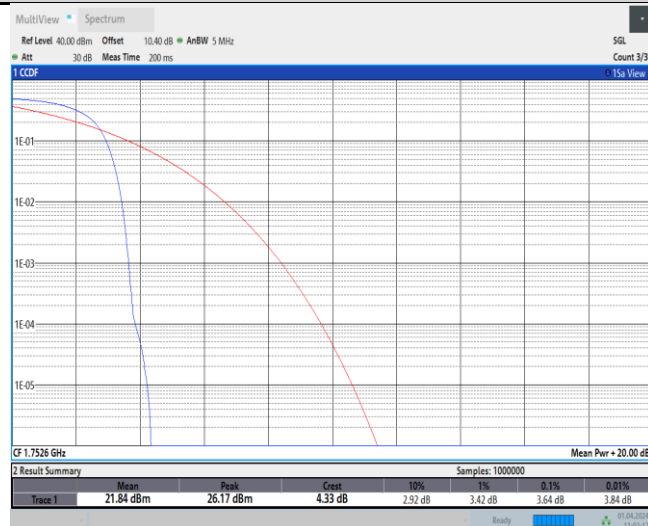
Band4-1513-2



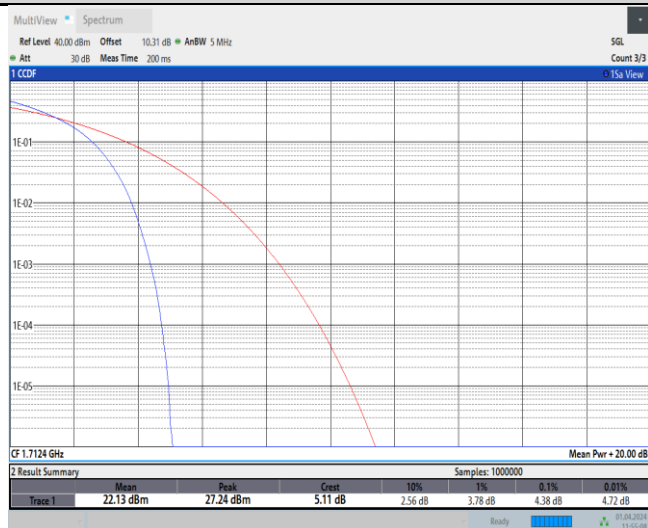
Band4-1513-3



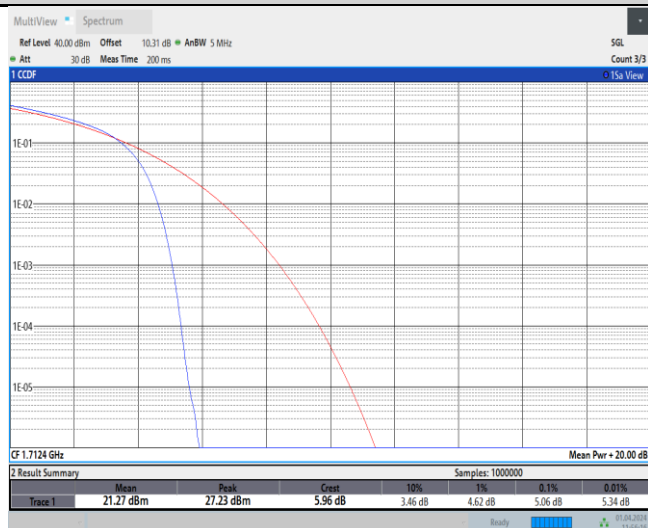
Band4-1513-4



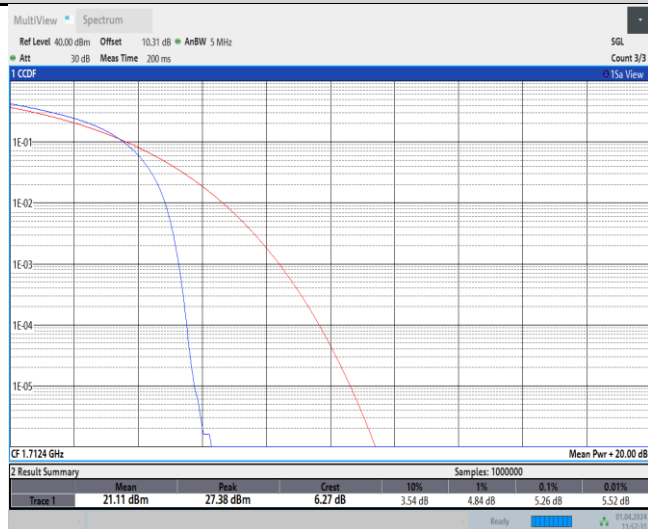
Band4-1312-1



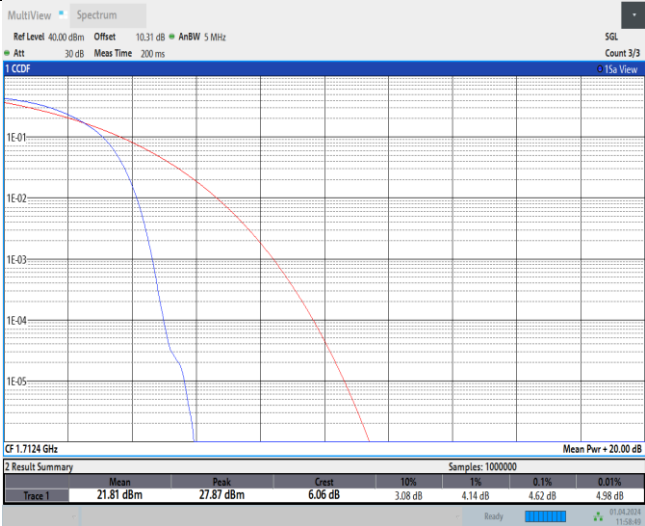
Band4-1312-2



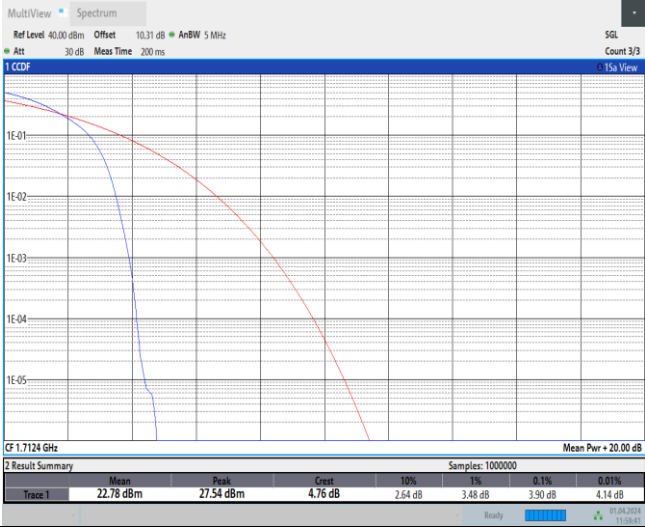
Band4-1312-3



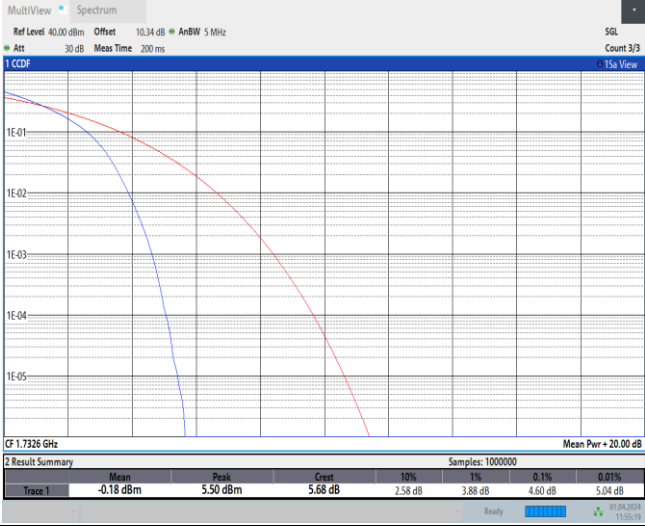
Band4-1312-4



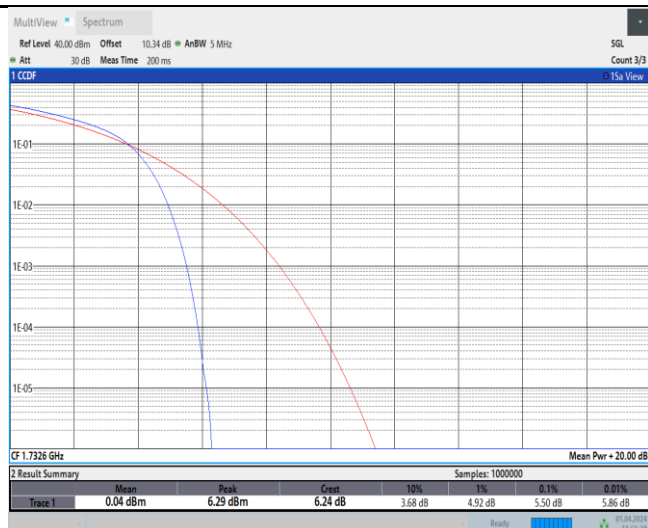
Band4-1312-5



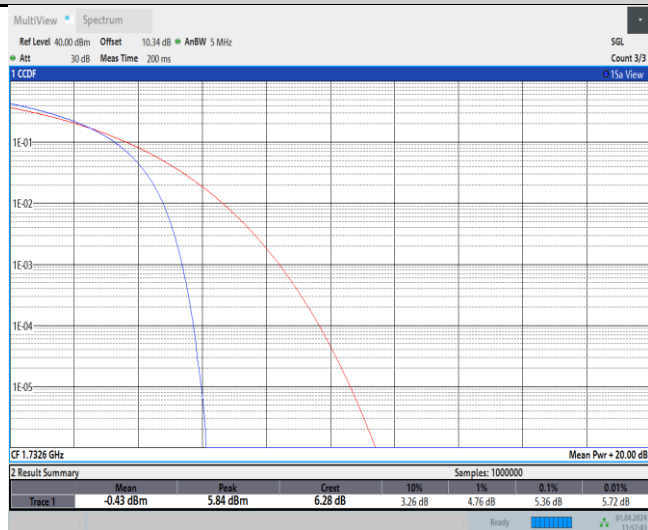
Band4-1413-1



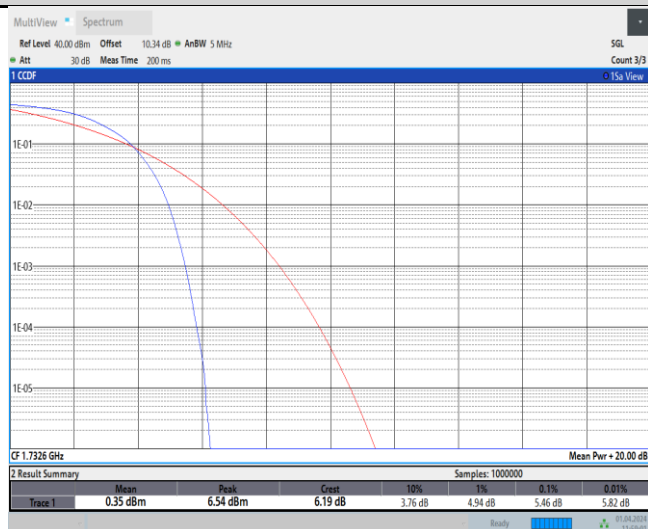
Band4-1413-2



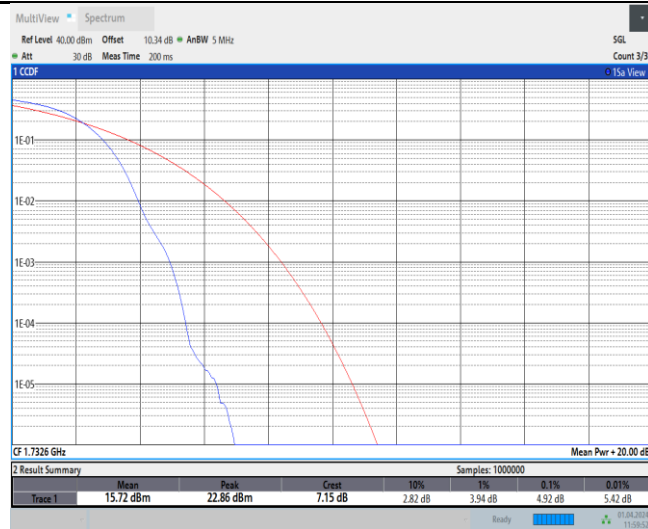
Band4-1413-3



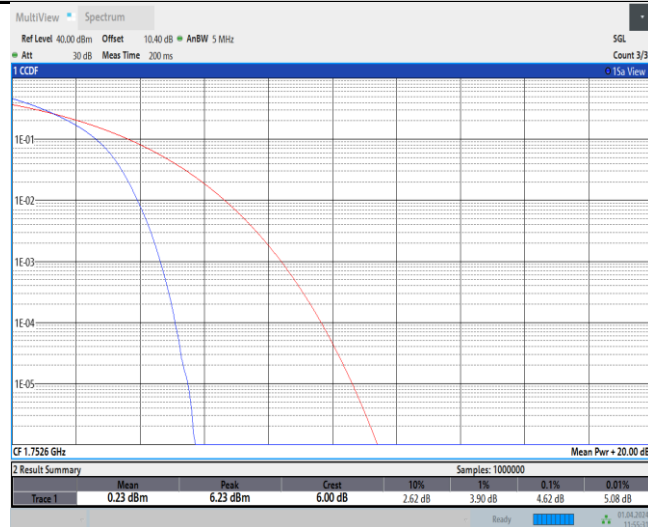
Band4-1413-4



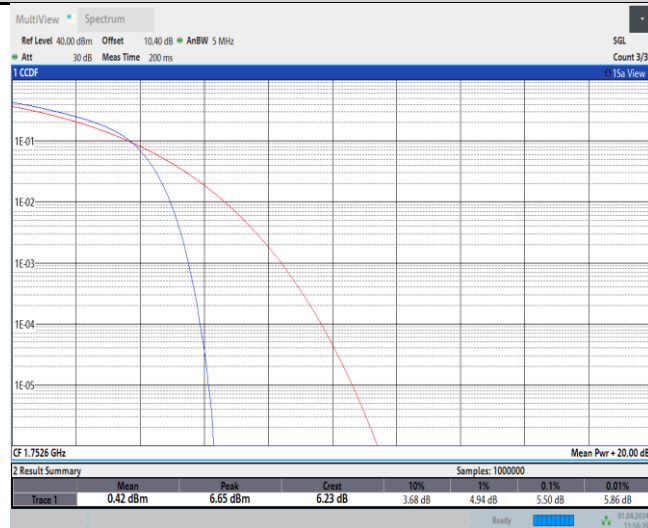
Band4-1413-5



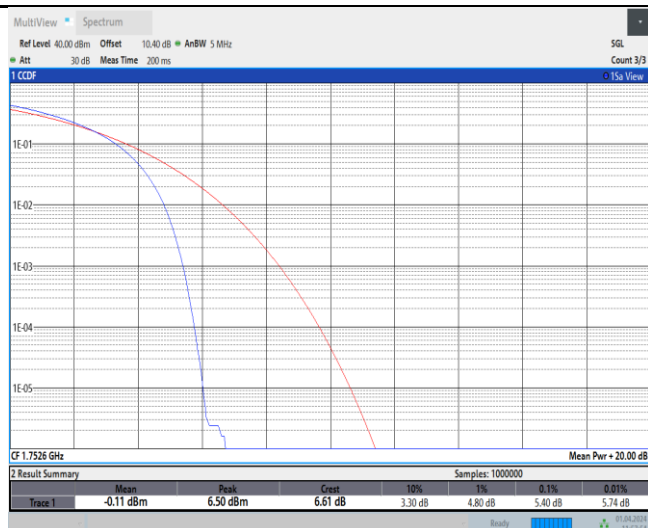
Band4-1513-1



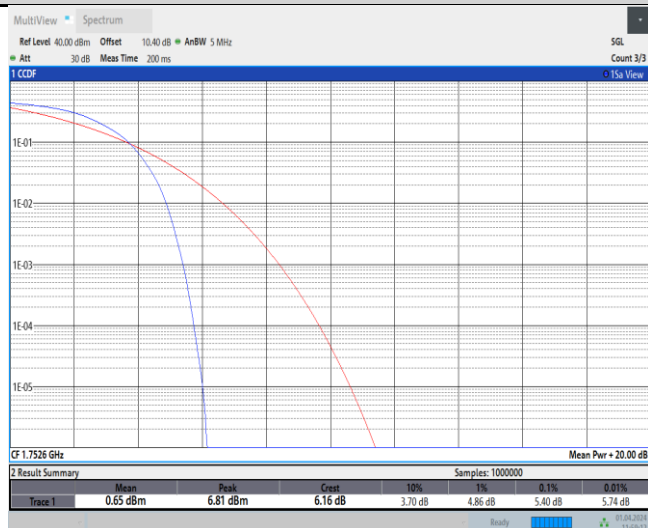
Band4-1513-2



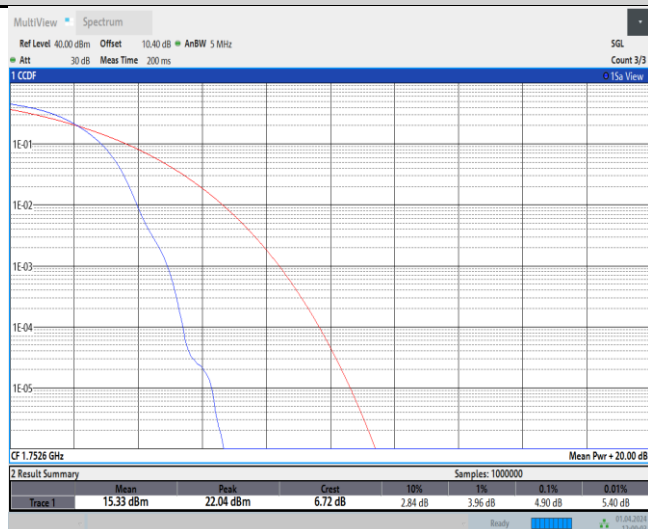
Band4-1513-3



Band4-1513-4



Band4-1513-5



APPENDIX B.3: 26dB BANDWIDTH AND OCCUPIED BANDWIDTH

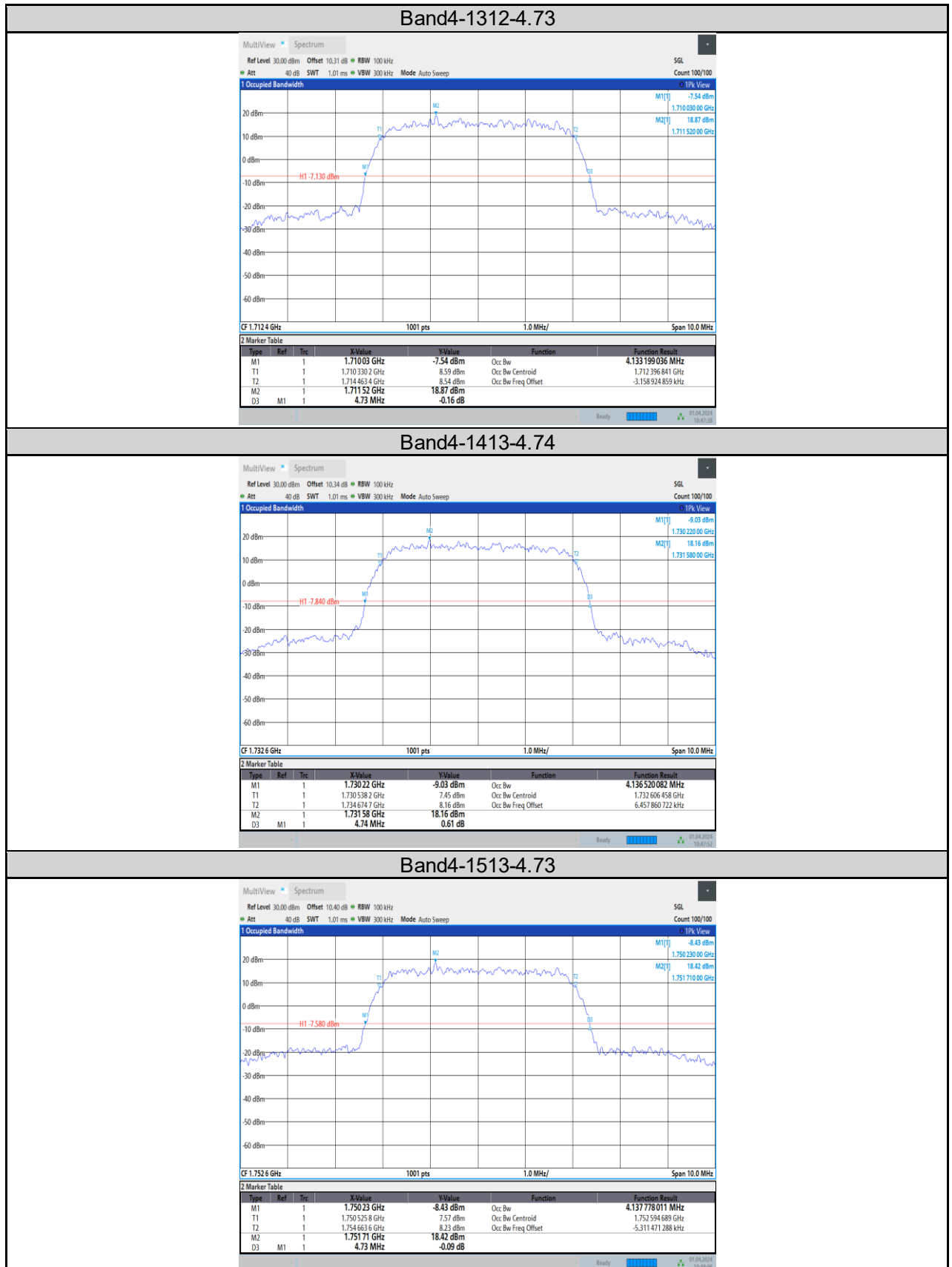
Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	4.133	4.73	---	PASS
Band4	1413	4.137	4.74	---	PASS
Band4	1513	4.138	4.73	---	PASS

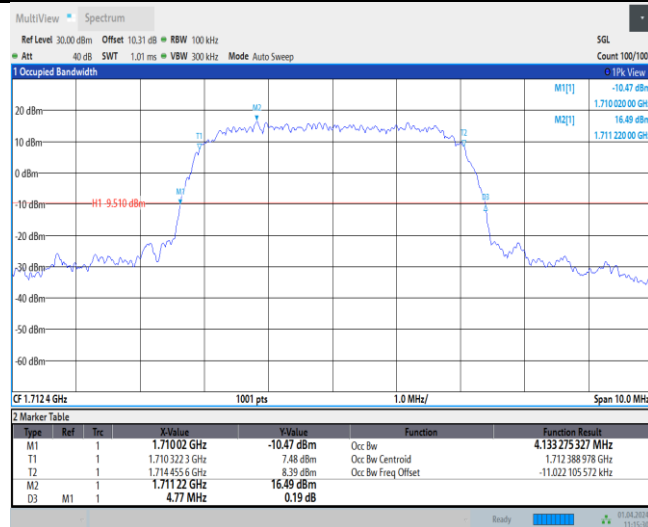
Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	1	4.133	4.77	---	PASS
Band4	1312	2	4.132	4.71	---	PASS
Band4	1312	3	4.14	4.70	---	PASS
Band4	1312	4	4.138	4.73	---	PASS
Band4	1413	1	4.125	4.71	---	PASS
Band4	1413	2	4.124	4.75	---	PASS
Band4	1413	3	4.141	4.71	---	PASS
Band4	1413	4	4.171	4.75	---	PASS
Band4	1513	1	4.166	4.71	---	PASS
Band4	1513	2	4.131	4.74	---	PASS
Band4	1513	3	4.152	4.76	---	PASS
Band4	1513	4	4.138	4.76	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band4	1312	1	4.129	4.70	---	PASS
Band4	1312	2	4.131	4.70	---	PASS
Band4	1312	3	4.101	4.72	---	PASS
Band4	1312	4	4.145	4.73	---	PASS
Band4	1312	5	4.153	4.72	---	PASS
Band4	1413	1	4.176	4.75	---	PASS
Band4	1413	2	4.169	4.77	---	PASS
Band4	1413	3	4.182	4.72	---	PASS
Band4	1413	4	4.172	4.75	---	PASS
Band4	1413	5	4.158	6.38	---	PASS
Band4	1513	1	4.167	4.73	---	PASS
Band4	1513	2	4.167	4.73	---	PASS
Band4	1513	3	4.181	4.75	---	PASS
Band4	1513	4	4.169	4.73	---	PASS
Band4	1513	5	4.171	5.77	---	PASS

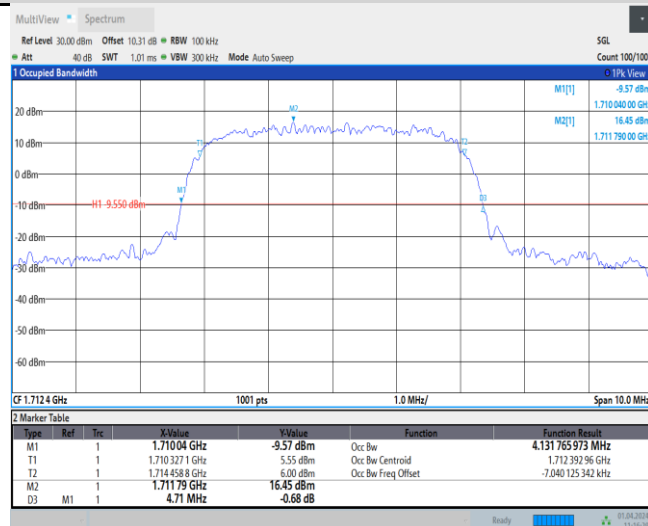
Test Graphs



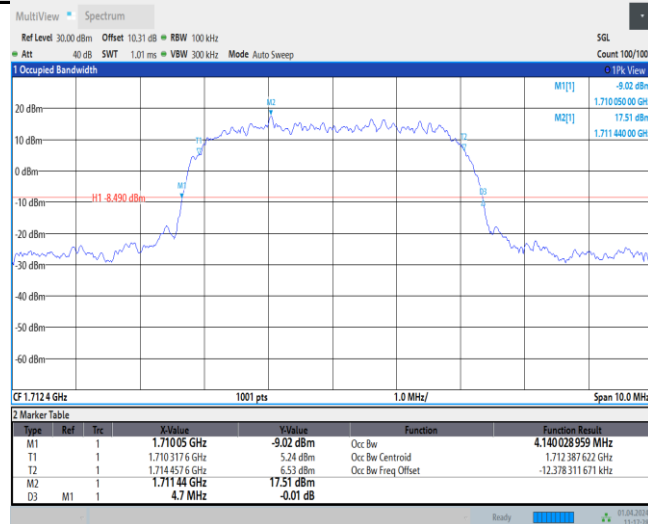
Band4-1312-1-4.77



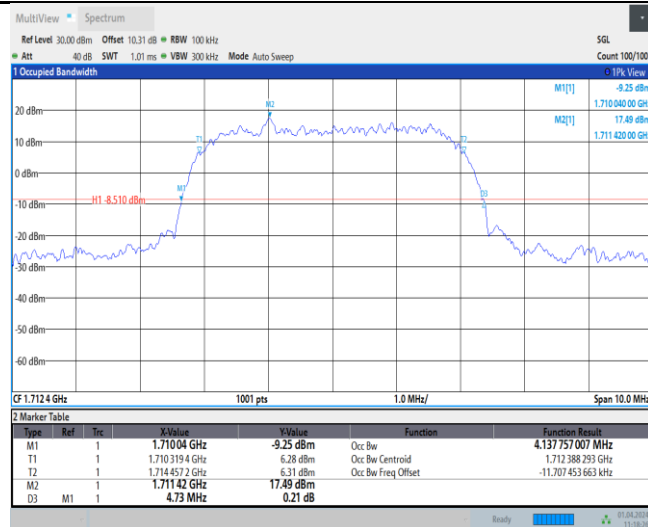
Band4-1312-2-4.71



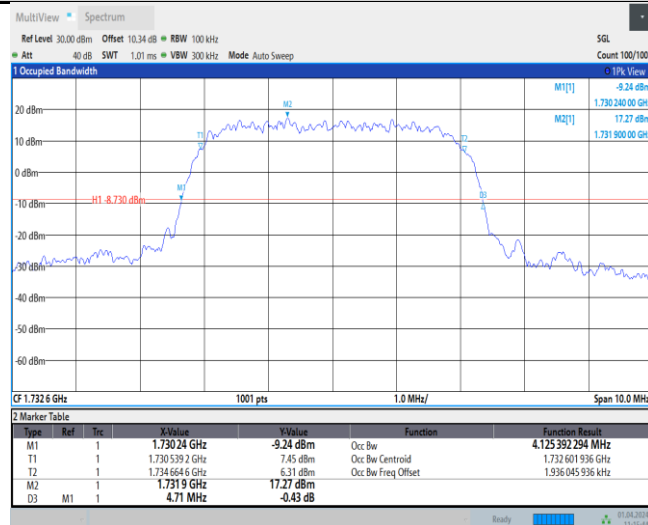
Band4-1312-3-4.70



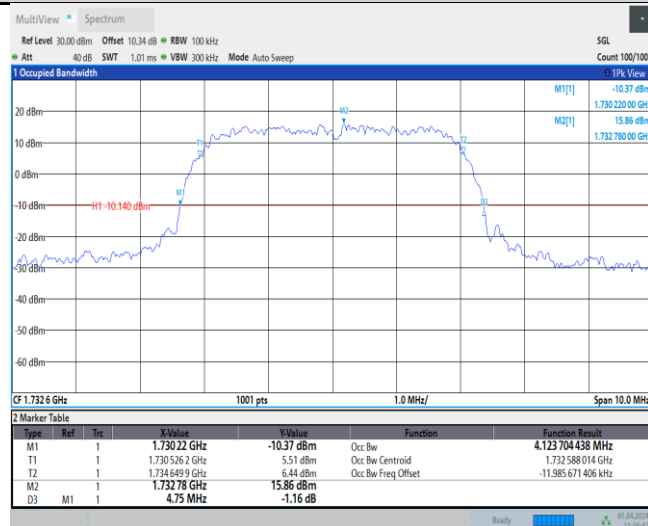
Band4-1312-4-4.73



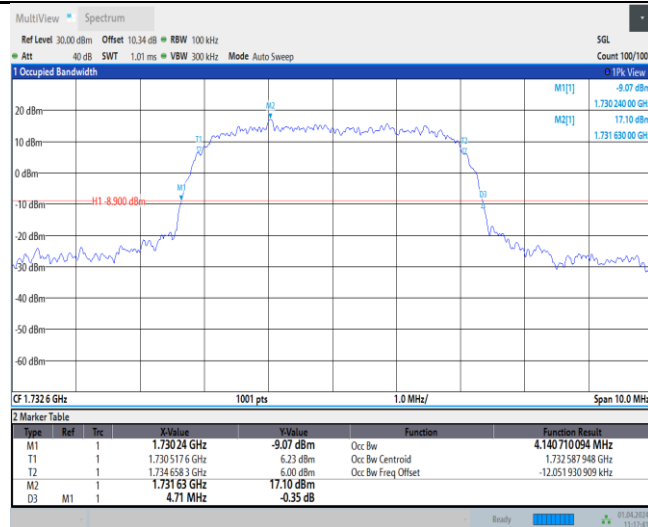
Band4-1413-1-4.71



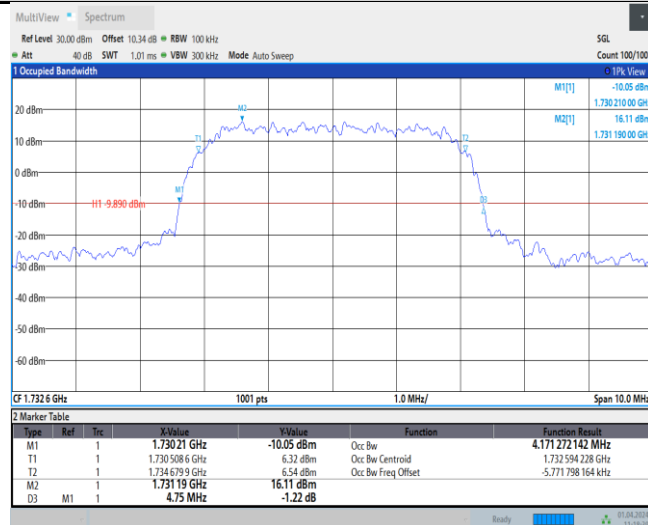
Band4-1413-2-4.75



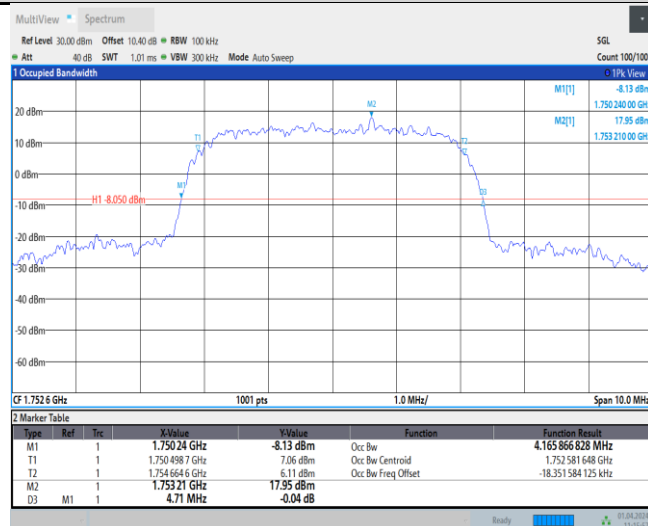
Band4-1413-3-4.71



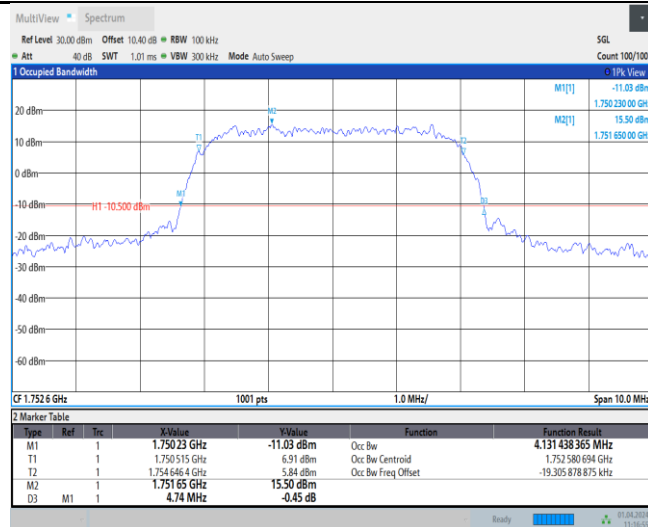
Band4-1413-4-75



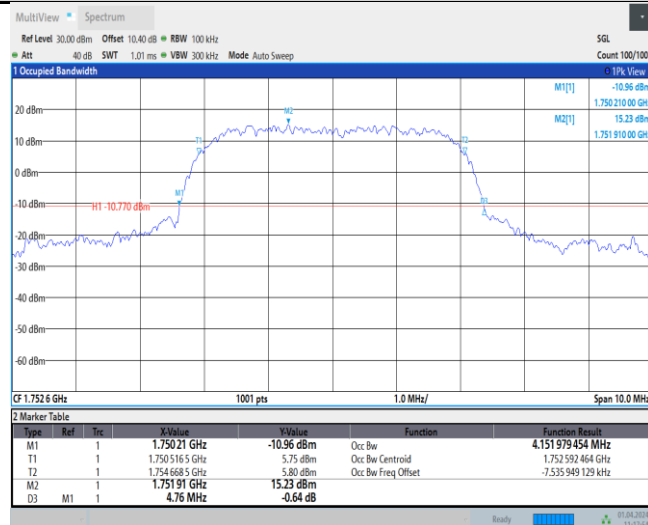
Band4-1513-1-4.71



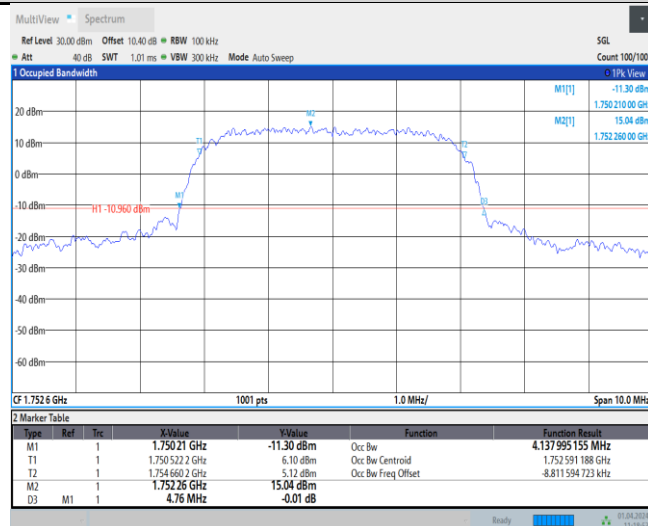
Band4-1513-2-4.74



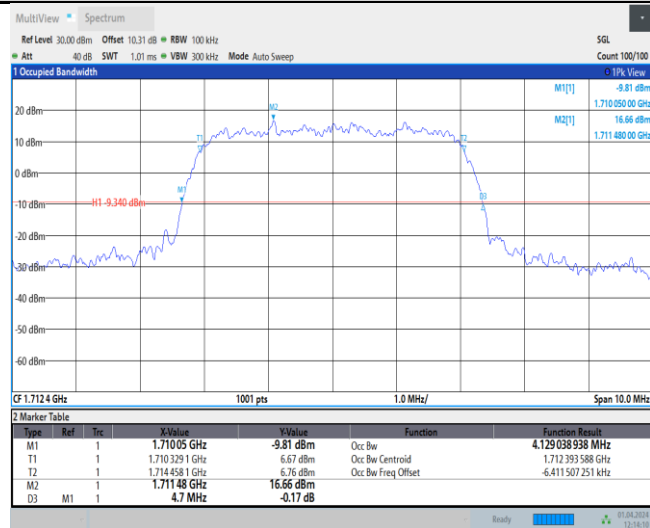
Band4-1513-3-4.76



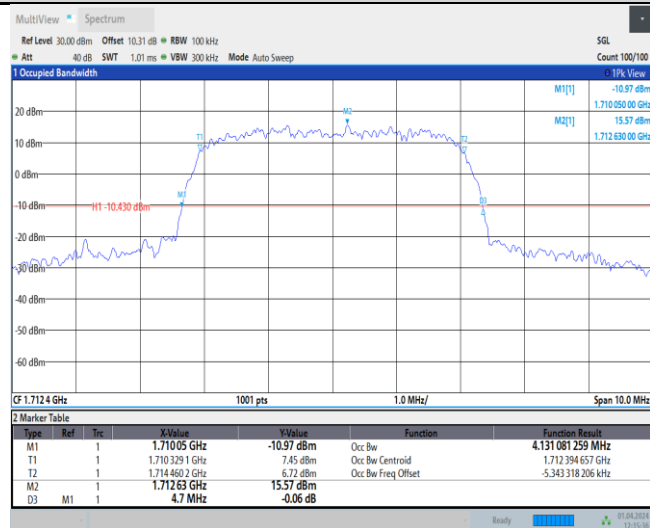
Band4-1513-4-4.76



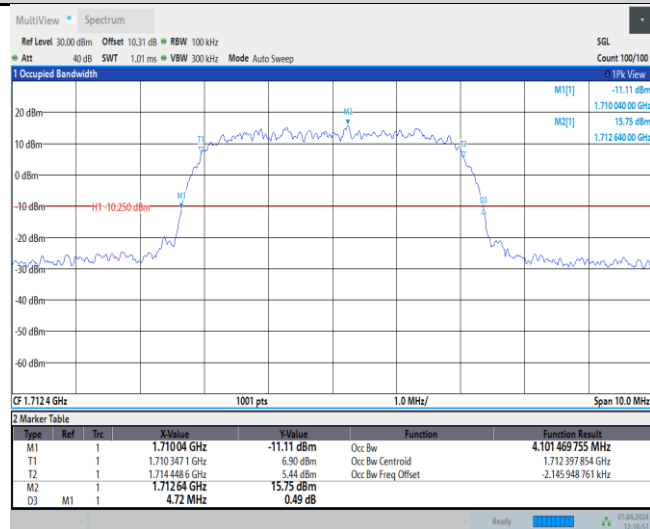
Band4-1312-1-4.70



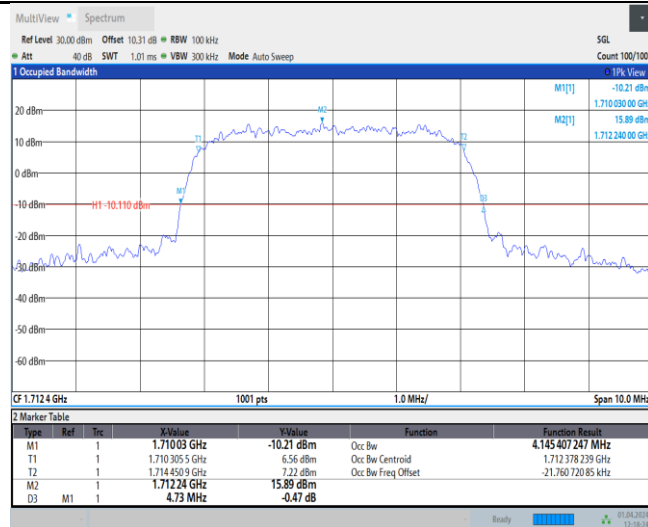
Band4-1312-2-4.70



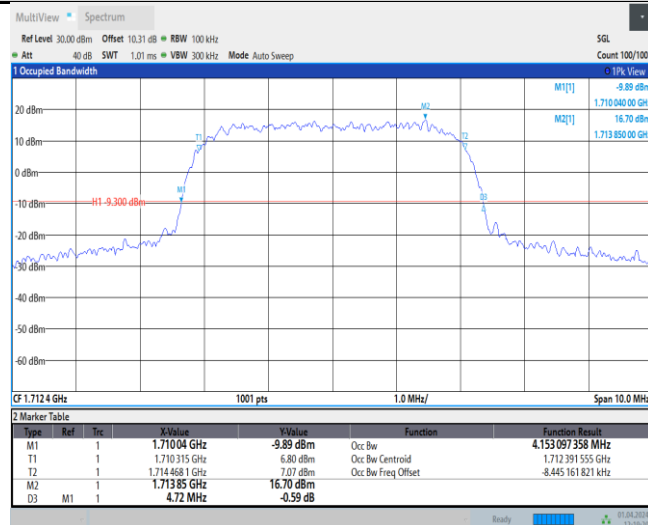
Band4-1312-3-4.72



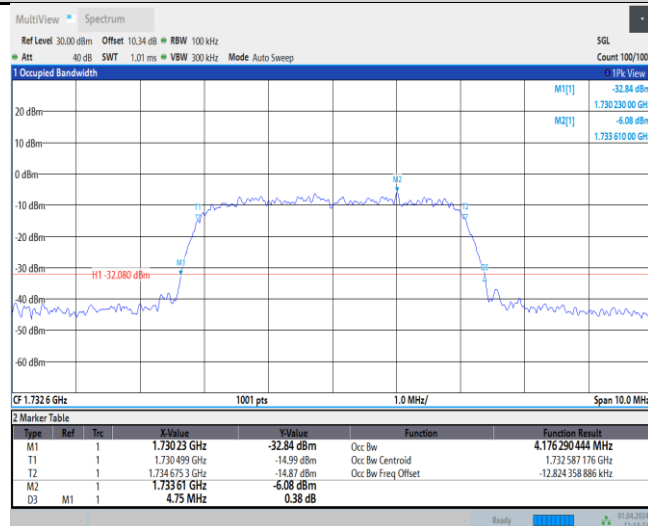
Band4-1312-4-4.73



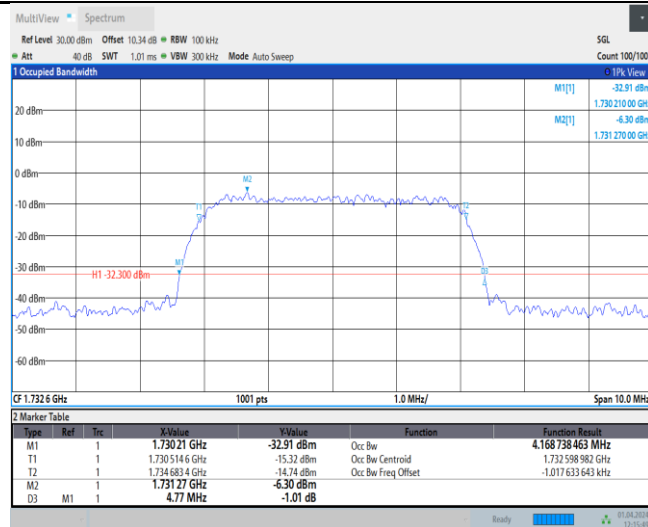
Band4-1312-5-4.72



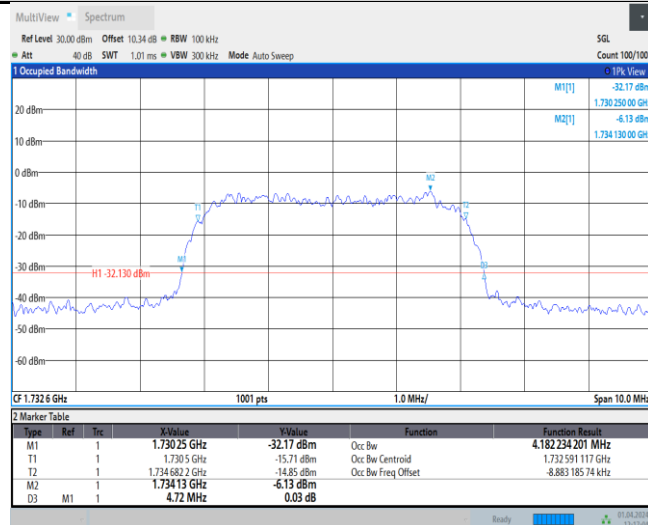
Band4-1413-1-4.75



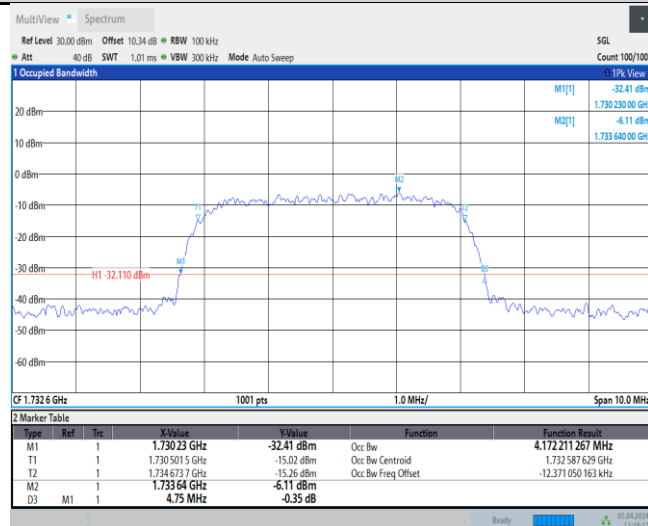
Band4-1413-2-4.77



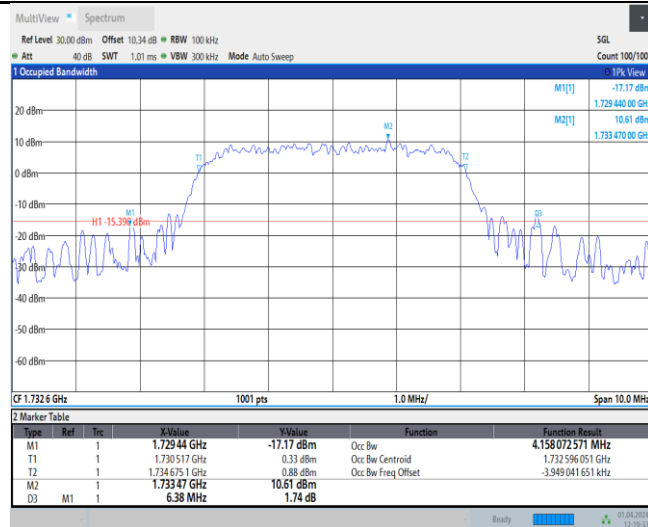
Band4-1413-3-4.72



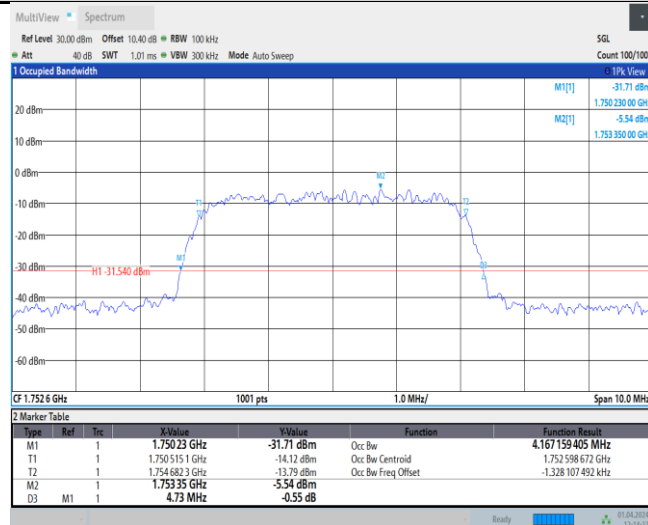
Band4-1413-4-4.75



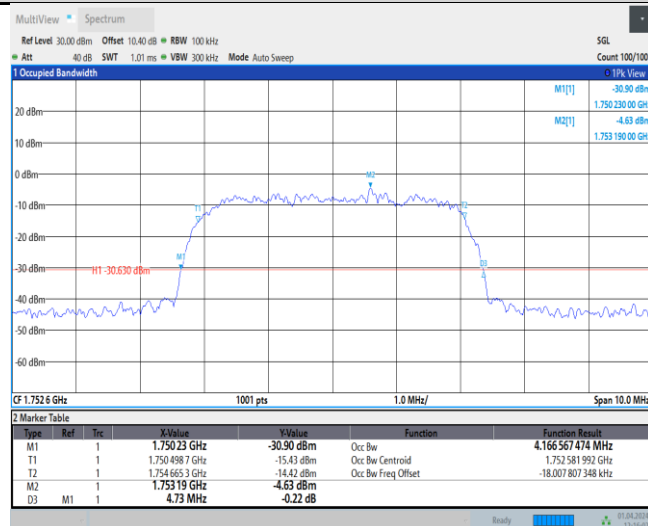
Band4-1413-5-6.38



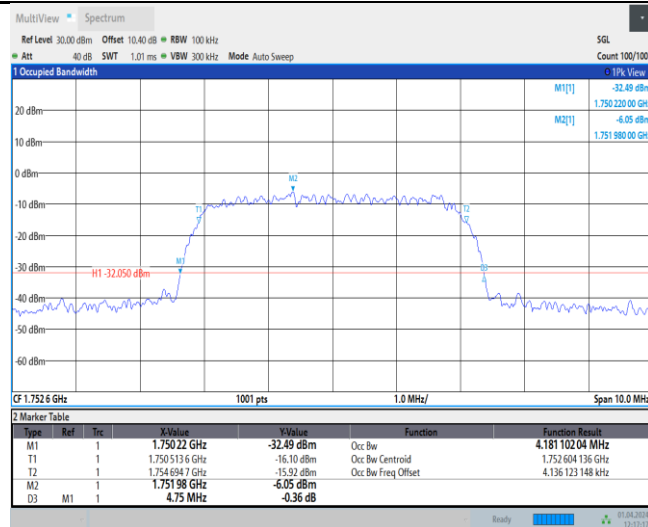
Band4-1513-1-4.73



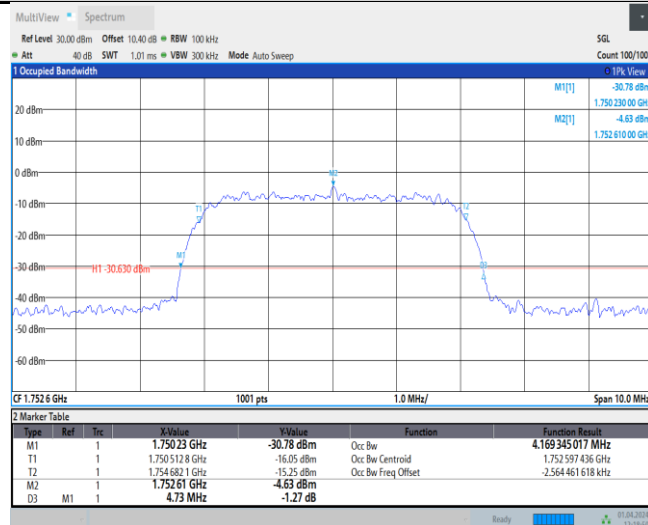
Band4-1513-2-4.73



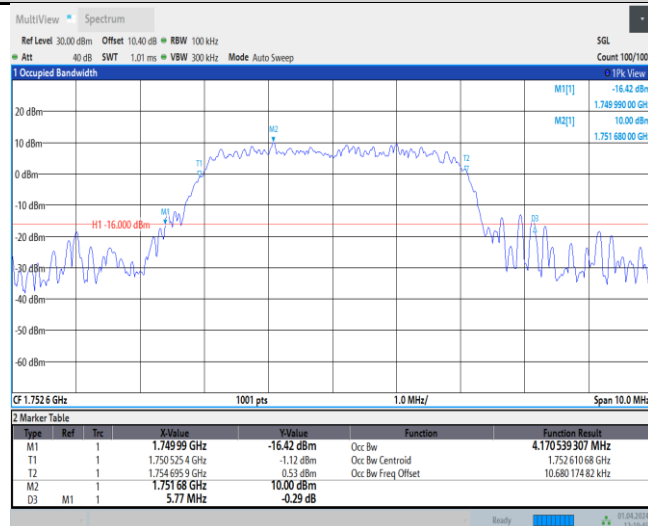
Band4-1513-3-4.75



Band4-1513-4-7.3



Band4-1513-5-5.77



APPENDIX B.4: BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.99	-18.72	-13	PASS
Band4	1513	1755.00	-16.19	-13	PASS

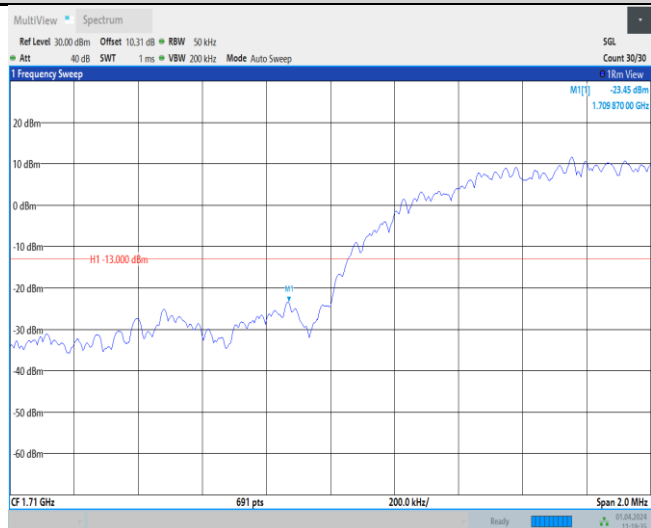
Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1709.87	-23.32	-13	PASS
Band4	1312	2	1709.83	-22.56	-13	PASS
Band4	1312	3	1710.00	-21.42	-13	PASS
Band4	1312	4	1710.00	-20.06	-13	PASS
Band4	1513	1	1755.00	-18.24	-13	PASS
Band4	1513	2	1755.23	-19.17	-13	PASS
Band4	1513	3	1755.28	-17.54	-13	PASS
Band4	1513	4	1755.15	-17.27	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1709.83	-19.86	-13	PASS
Band4	1312	2	1709.84	-21.96	-13	PASS
Band4	1312	3	1710.00	-21.05	-13	PASS
Band4	1312	4	1710.00	-20.60	-13	PASS
Band4	1312	5	1710.00	-20.57	-13	PASS
Band4	1513	1	1755.19	-38.95	-13	PASS
Band4	1513	2	1755.10	-41.82	-13	PASS
Band4	1513	3	1755.15	-40.61	-13	PASS
Band4	1513	4	1755.17	-42.00	-13	PASS
Band4	1513	5	1755.15	-13.88	-13	PASS

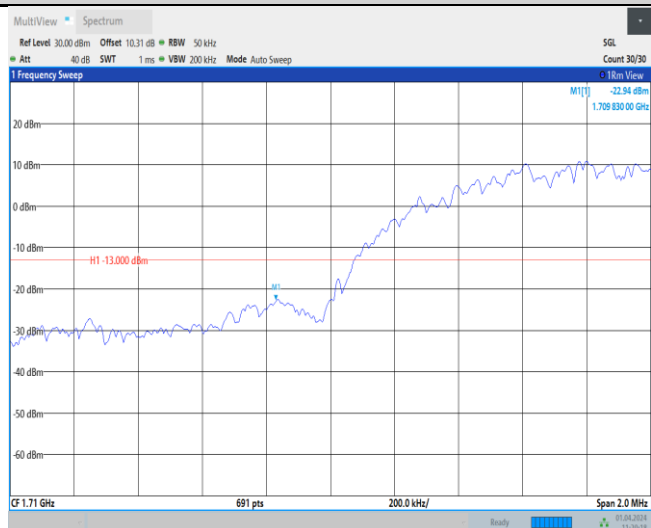
Test Graphs



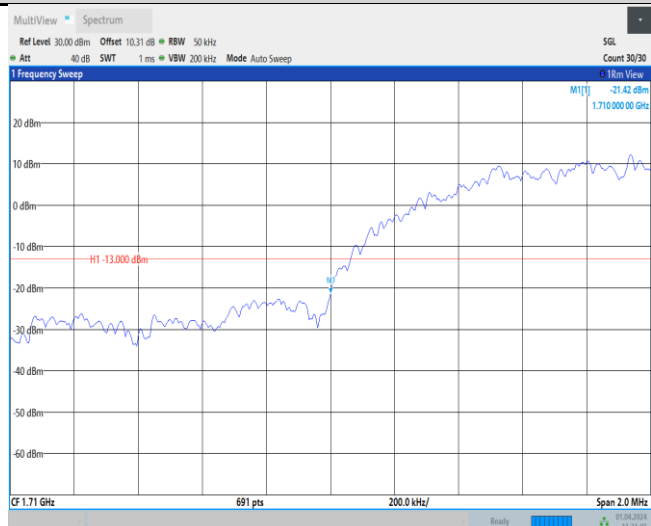
Band4-1312-1



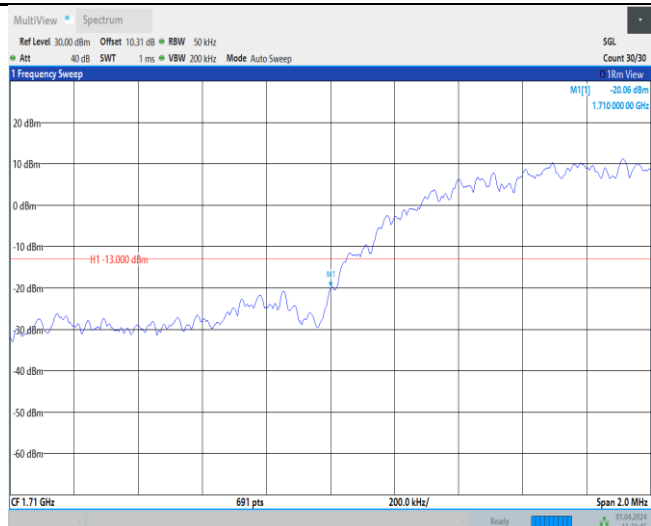
Band4-1312-2



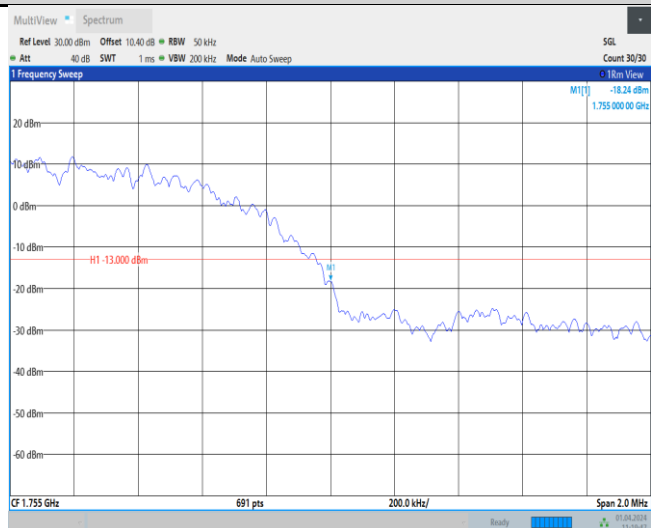
Band4-1312-3



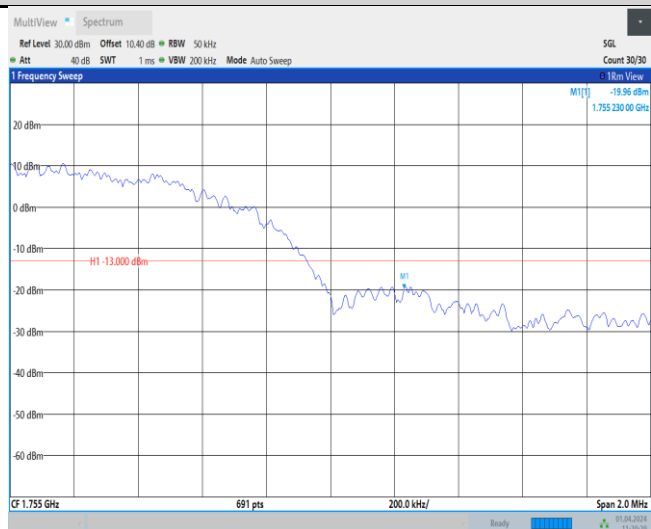
Band4-1312-4



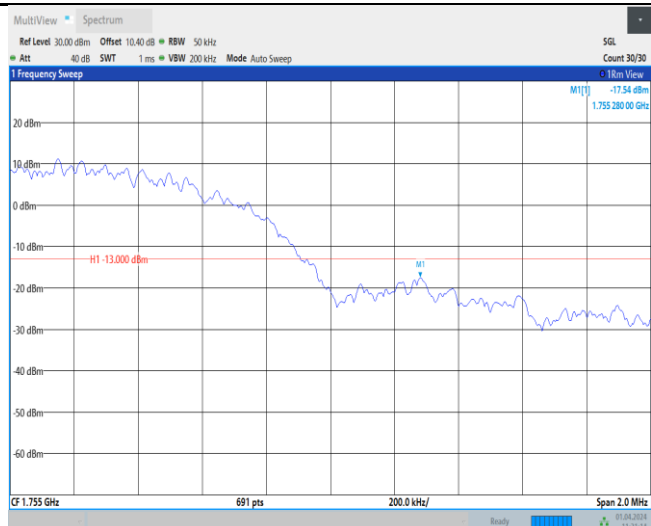
Band4-1513-1



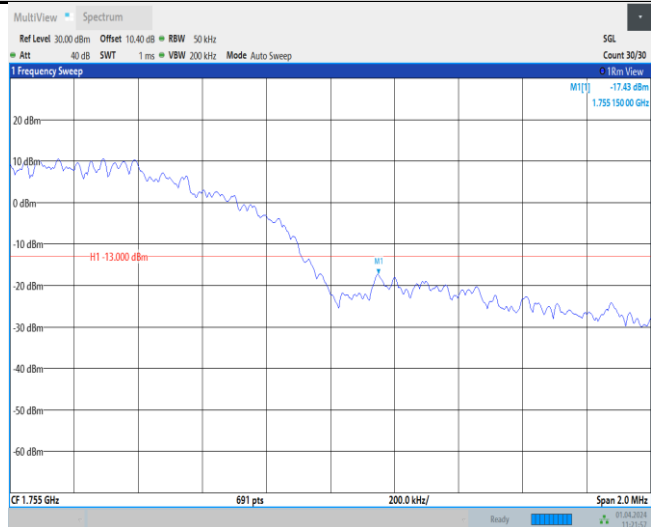
Band4-1513-2



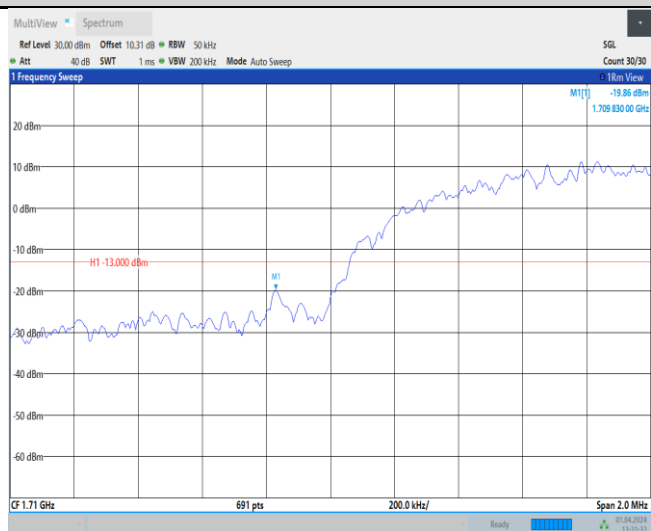
Band4-1513-3



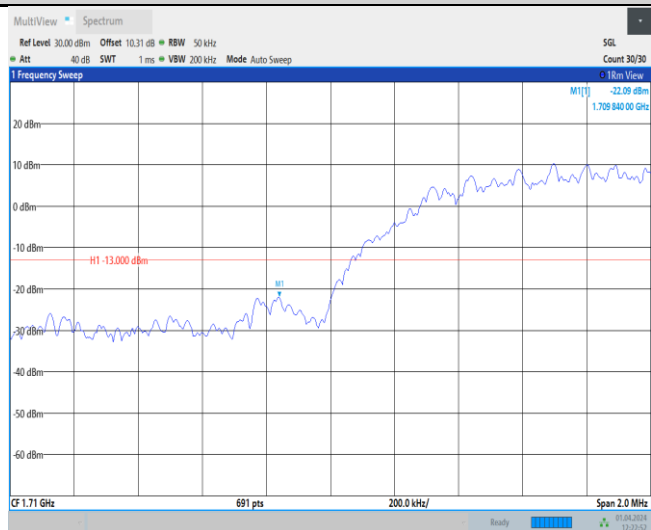
Band4-1513-4



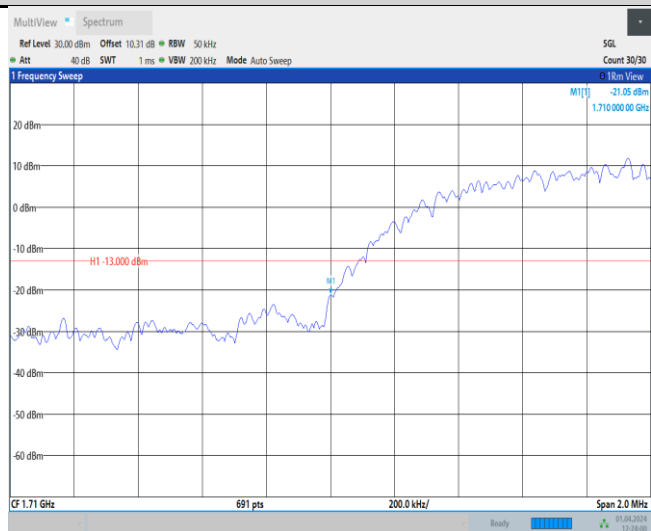
Band4-1312-1



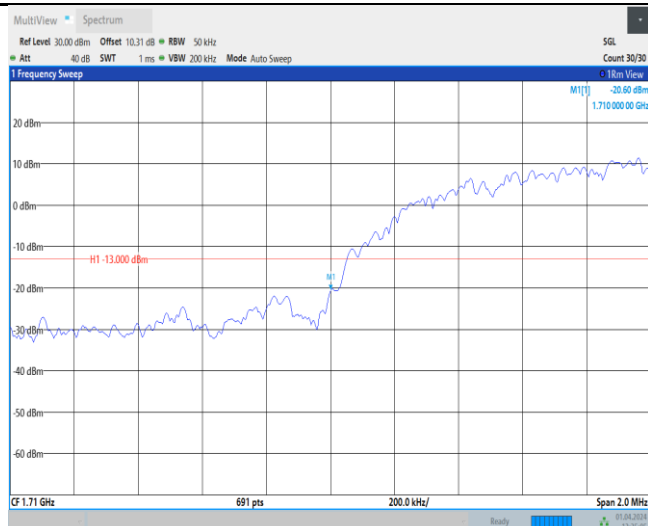
Band4-1312-2



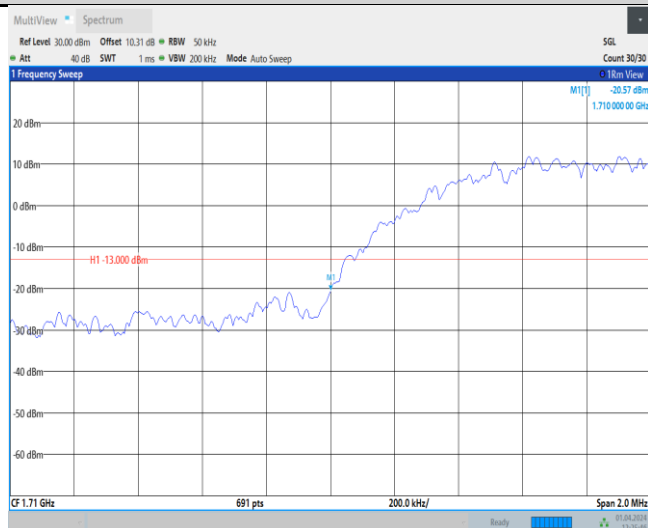
Band4-1312-3



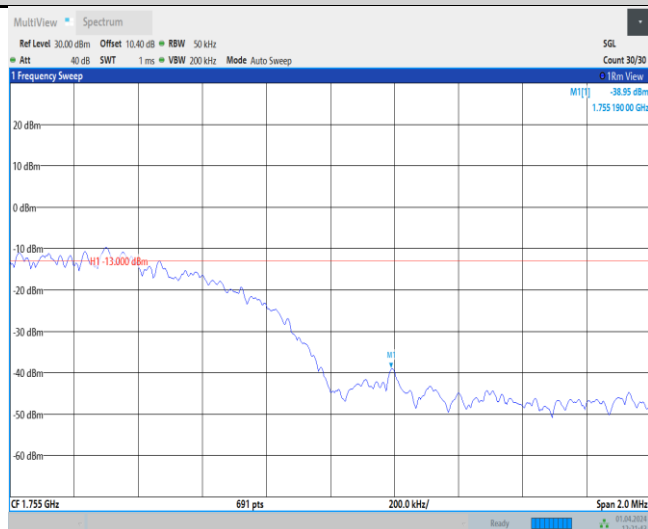
Band4-1312-4



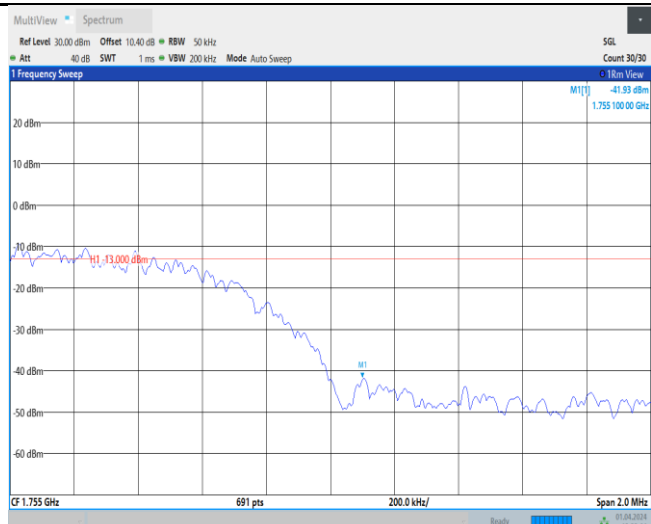
Band4-1312-5



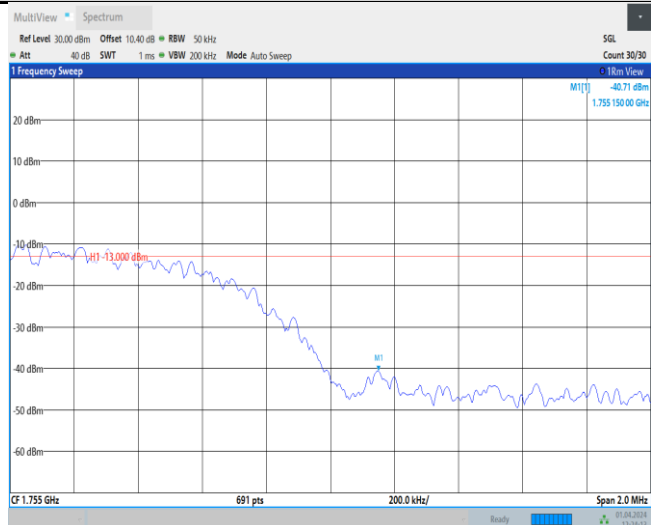
Band4-1513-1



Band4-1513-2



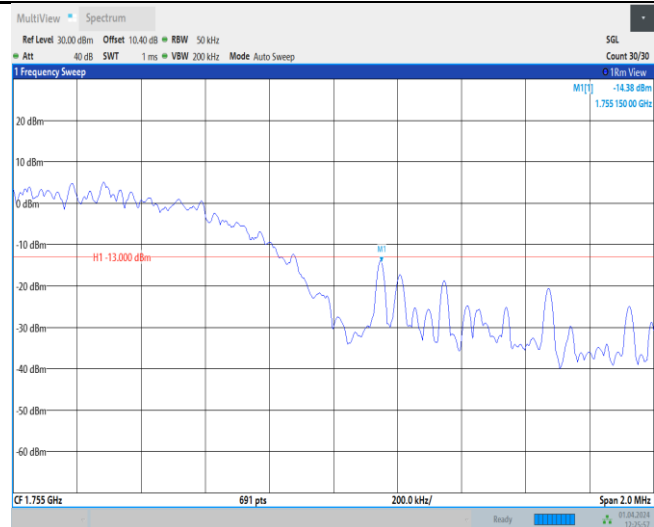
Band4-1513-3



Band4-1513-4



Band4-1513-5



APPENDIX B.5: CONDUCTED SPURIOUS EMISSIONS

Test Result

General:

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	0.009~0.15MHz	0.02	-67.6	-43	PASS
Band4	1312	0.15~30MHz	22.09	-64.08	-33	PASS
Band4	1312	30~1000MHz	31.41	-40.25	-13	PASS
Band4	1312	1000~3000MHz	2985.73	-45.4	-13	PASS
Band4	1312	3000~10000MHz	7476.23	-52.84	-13	PASS
Band4	1312	10000~20000MHz	17362.92	-50.94	-13	PASS
Band4	1413	0.009~0.15MHz	0.02	-67.9	-43	PASS
Band4	1413	0.15~30MHz	28.21	-63.98	-33	PASS
Band4	1413	30~1000MHz	33.06	-39.93	-13	PASS
Band4	1413	1000~3000MHz	2911.87	-45.67	-13	PASS
Band4	1413	3000~10000MHz	7493.73	-52.74	-13	PASS
Band4	1413	10000~20000MHz	17340.59	-50.96	-13	PASS
Band4	1513	0.009~0.15MHz	0.02	-68.87	-43	PASS
Band4	1513	0.15~30MHz	27	-63.7	-33	PASS
Band4	1513	30~1000MHz	34.51	-40.12	-13	PASS
Band4	1513	1000~3000MHz	2968.8	-45.51	-13	PASS
Band4	1513	3000~10000MHz	7477.4	-52.89	-13	PASS
Band4	1513	10000~20000MHz	17348.92	-51.03	-13	PASS

Band	Channel	SubTest	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.15~30MHz	29.06	-64.05	-33	PASS
Band4	1312	1	30~1000MHz	55.75	-40.17	-13	PASS
Band4	1312	1	1000~3000MHz	2930.8	-45.52	-13	PASS
Band4	1312	1	3000~10000MHz	7497.23	-52.97	-13	PASS
Band4	1312	1	10000~20000MHz	17333.59	-50.99	-13	PASS
Band4	1312	1	0.009~0.15MHz	0.02	-67.88	-43	PASS
Band4	1312	2	1000~3000MHz	2993.13	-45.5	-13	PASS
Band4	1312	2	0.009~0.15MHz	0.02	-67.89	-43	PASS
Band4	1312	2	3000~10000MHz	7479.27	-53.03	-13	PASS
Band4	1312	2	30~1000MHz	31.34	-40.2	-13	PASS
Band4	1312	2	0.15~30MHz	29.39	-63.91	-33	PASS
Band4	1312	2	10000~20000MHz	17343.59	-51.07	-13	PASS
Band4	1312	3	0.15~30MHz	25.08	-64.33	-33	PASS
Band4	1312	3	30~1000MHz	45.86	-40.45	-13	PASS
Band4	1312	3	10000~20000MHz	17384.59	-50.98	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.02	-67.26	-43	PASS
Band4	1312	3	3000~10000MHz	7495.37	-52.83	-13	PASS
Band4	1312	3	1000~3000MHz	2967.87	-45.45	-13	PASS
Band4	1312	4	0.15~30MHz	8.8	-64.22	-33	PASS
Band4	1312	4	30~1000MHz	55.3	-40.52	-13	PASS
Band4	1312	4	1000~3000MHz	2989.93	-45.56	-13	PASS
Band4	1312	4	10000~20000MHz	17351.25	-51.04	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.02	-67.39	-43	PASS
Band4	1312	4	3000~10000MHz	3426.64	-51.93	-13	PASS
Band4	1413	1	10000~20000MHz	17381.92	-50.97	-13	PASS

Band4	1413	1	3000~10000MHz	7486.97	-52.83	-13	PASS
Band4	1413	1	1000~3000MHz	2936.53	-45.51	-13	PASS
Band4	1413	1	30~1000MHz	35.8	-40.29	-13	PASS
Band4	1413	1	0.009~0.15MHz	0.02	-68.17	-43	PASS
Band4	1413	1	0.15~30MHz	27.17	-64.31	-33	PASS
Band4	1413	2	0.15~30MHz	27.51	-63.96	-33	PASS
Band4	1413	2	30~1000MHz	44.28	-40	-13	PASS
Band4	1413	2	1000~3000MHz	2926	-45.53	-13	PASS
Band4	1413	2	3000~10000MHz	7495.37	-53.05	-13	PASS
Band4	1413	2	0.009~0.15MHz	0.02	-68.09	-43	PASS
Band4	1413	2	10000~20000MHz	17369.92	-50.98	-13	PASS
Band4	1413	3	1000~3000MHz	2960.6	-45.35	-13	PASS
Band4	1413	3	30~1000MHz	43.21	-40.05	-13	PASS
Band4	1413	3	0.15~30MHz	29.2	-63.73	-33	PASS
Band4	1413	3	3000~10000MHz	7485.8	-52.97	-13	PASS
Band4	1413	3	0.009~0.15MHz	0.02	-68.2	-43	PASS
Band4	1413	3	10000~20000MHz	17367.25	-50.84	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.02	-68.13	-43	PASS
Band4	1413	4	0.15~30MHz	22.79	-64.41	-33	PASS
Band4	1413	4	30~1000MHz	35.97	-39.73	-13	PASS
Band4	1413	4	1000~3000MHz	2941.27	-45.51	-13	PASS
Band4	1413	4	3000~10000MHz	7440.77	-53.02	-13	PASS
Band4	1413	4	10000~20000MHz	17371.92	-51.03	-13	PASS
Band4	1513	1	10000~20000MHz	17352.59	-50.88	-13	PASS
Band4	1513	1	0.009~0.15MHz	0.02	-67.6	-43	PASS
Band4	1513	1	3000~10000MHz	7496.53	-52.97	-13	PASS
Band4	1513	1	0.15~30MHz	29.23	-64.01	-33	PASS
Band4	1513	1	1000~3000MHz	2955.27	-45.53	-13	PASS
Band4	1513	1	30~1000MHz	85.98	-40.37	-13	PASS
Band4	1513	2	0.15~30MHz	0.28	-63.94	-33	PASS
Band4	1513	2	30~1000MHz	33.09	-40.24	-13	PASS
Band4	1513	2	1000~3000MHz	2914.67	-45.46	-13	PASS
Band4	1513	2	10000~20000MHz	17349.92	-50.65	-13	PASS
Band4	1513	2	3000~10000MHz	7481.37	-52.99	-13	PASS
Band4	1513	2	0.009~0.15MHz	0.02	-67.96	-43	PASS
Band4	1513	3	30~1000MHz	57.98	-40	-13	PASS
Band4	1513	3	10000~20000MHz	17374.25	-50.98	-13	PASS
Band4	1513	3	1000~3000MHz	2991.87	-45.56	-13	PASS
Band4	1513	3	0.15~30MHz	27.97	-64.3	-33	PASS
Band4	1513	3	0.009~0.15MHz	0.02	-66.97	-43	PASS
Band4	1513	3	3000~10000MHz	7473.9	-52.82	-13	PASS
Band4	1513	4	10000~20000MHz	17350.92	-50.99	-13	PASS
Band4	1513	4	0.009~0.15MHz	0.02	-67.89	-43	PASS
Band4	1513	4	0.15~30MHz	29.5	-62.38	-33	PASS
Band4	1513	4	30~1000MHz	47.96	-40.28	-13	PASS
Band4	1513	4	1000~3000MHz	2985.8	-45.62	-13	PASS
Band4	1513	4	3000~10000MHz	7493.5	-52.94	-13	PASS

Band	Channel	SubTest	Frequency Range (MHz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	1	0.15~30MHz	25.66	-63.81	-33	PASS
Band4	1312	1	30~1000MHz	32.47	-40.25	-13	PASS
Band4	1312	1	1000~3000MHz	2939.47	-45.43	-13	PASS
Band4	1312	1	3000~10000MHz	7487.2	-52.94	-13	PASS
Band4	1312	1	10000~20000MHz	17367.25	-50.92	-13	PASS
Band4	1312	1	0.009~0.15MHz	0.02	-67.72	-43	PASS
Band4	1312	2	1000~3000MHz	2929.13	-45.56	-13	PASS
Band4	1312	2	3000~10000MHz	7485.57	-52.78	-13	PASS
Band4	1312	2	30~1000MHz	59.28	-39.84	-13	PASS
Band4	1312	2	0.15~30MHz	26.29	-64.05	-33	PASS
Band4	1312	2	0.009~0.15MHz	0.02	-68.41	-43	PASS
Band4	1312	2	10000~20000MHz	17357.25	-51.05	-13	PASS
Band4	1312	3	10000~20000MHz	17368.92	-50.78	-13	PASS
Band4	1312	3	0.15~30MHz	23.14	-63.12	-33	PASS
Band4	1312	3	30~1000MHz	35.58	-39.97	-13	PASS
Band4	1312	3	0.009~0.15MHz	0.02	-70.61	-43	PASS
Band4	1312	3	3000~10000MHz	7494.67	-53.01	-13	PASS
Band4	1312	3	1000~3000MHz	2979.2	-45.59	-13	PASS
Band4	1312	4	0.009~0.15MHz	0.02	-67.3	-43	PASS
Band4	1312	4	0.15~30MHz	28.53	-63.97	-33	PASS
Band4	1312	4	30~1000MHz	33.57	-39.65	-13	PASS
Band4	1312	4	1000~3000MHz	2951.33	-45.6	-13	PASS
Band4	1312	4	3000~10000MHz	7486.27	-52.96	-13	PASS
Band4	1312	4	10000~20000MHz	17365.25	-50.64	-13	PASS
Band4	1312	5	1000~3000MHz	2972.4	-45.55	-13	PASS
Band4	1312	5	10000~20000MHz	17364.25	-51.04	-13	PASS
Band4	1312	5	3000~10000MHz	7497	-53.07	-13	PASS
Band4	1312	5	0.009~0.15MHz	0.02	-67.97	-43	PASS
Band4	1312	5	30~1000MHz	47.25	-39.65	-13	PASS
Band4	1312	5	0.15~30MHz	27.74	-63.97	-33	PASS
Band4	1413	1	0.15~30MHz	24.46	-63.69	-33	PASS
Band4	1413	1	0.009~0.15MHz	0.02	-67.12	-43	PASS
Band4	1413	1	30~1000MHz	34.32	-40.59	-13	PASS
Band4	1413	1	1000~3000MHz	2960.53	-45.55	-13	PASS
Band4	1413	1	3000~10000MHz	7485.57	-52.84	-13	PASS
Band4	1413	1	10000~20000MHz	17345.59	-50.99	-13	PASS
Band4	1413	2	1000~3000MHz	2991.47	-45.6	-13	PASS
Band4	1413	2	3000~10000MHz	7498.63	-52.96	-13	PASS
Band4	1413	2	30~1000MHz	32.96	-40.27	-13	PASS
Band4	1413	2	0.15~30MHz	28.42	-64.02	-33	PASS
Band4	1413	2	0.009~0.15MHz	0.02	-67.31	-43	PASS
Band4	1413	2	10000~20000MHz	17385.59	-51.08	-13	PASS
Band4	1413	3	30~1000MHz	94.52	-40.41	-13	PASS
Band4	1413	3	0.009~0.15MHz	0.02	-68.51	-43	PASS
Band4	1413	3	1000~3000MHz	2992.6	-45.38	-13	PASS
Band4	1413	3	3000~10000MHz	7498.87	-52.85	-13	PASS
Band4	1413	3	10000~20000MHz	17352.92	-51.03	-13	PASS
Band4	1413	3	0.15~30MHz	14.67	-63.75	-33	PASS
Band4	1413	4	0.15~30MHz	0.17	-64.21	-33	PASS
Band4	1413	4	10000~20000MHz	17353.25	-50.95	-13	PASS
Band4	1413	4	3000~10000MHz	7499.8	-53	-13	PASS
Band4	1413	4	30~1000MHz	55.85	-40.53	-13	PASS
Band4	1413	4	0.009~0.15MHz	0.02	-68.54	-43	PASS
Band4	1413	4	1000~3000MHz	2981.67	-45.44	-13	PASS