Appendix G: Test Results of LTE Band 12 operation

Contents

1. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA 2
1.1 Test Result 2
2. PEAK-TO-AVERAGE RATIO (CCDF) 7
2.1 Test Result 7
2.2 Test Graphs 8
3. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 10
3.1 Test Result 10
3.2 Test Graphs 11
4. BAND EDGE 19
4.1 Test Result 19
4.2 Test Graphs 20
5. CONDUCTED SPURIOUS EMISSION 31
5.1 Test Result 31
5.2 Test Graphs 32
6. FREQUENCY STABILITY 36
6.1 Test Result 36

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.50	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.53	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.44	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.52	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.51	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.48	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.56	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.48	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.45	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.46	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.47	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.52	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.46	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.43	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.23	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.29	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.35	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.36	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.39	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.31	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.33	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.53	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.53	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.46	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.45	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.39	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.46	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.62	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.57	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.59	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.50	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.39	PASS

Band12	1.4MHz	16QAM	23095	3RB#0	21.47	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.46	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.56	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.41	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.32	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.30	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.26	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.25	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.22	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.41	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.59	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.56	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.50	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.73	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.74	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.61	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.65	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.53	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.51	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.55	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.42	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.50	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.53	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.55	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.36	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.36	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.32	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.39	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.42	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.36	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.34	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.65	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.69	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.78	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.81	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.80	PASS

Band12	3MHz	16QAM	23025	15RB#0	20.76	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.41	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.48	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.48	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.57	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.63	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.63	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.55	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.22	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.17	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.23	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.45	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.45	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.49	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.34	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.55	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.65	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.59	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.63	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.66	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.67	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.60	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.48	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.36	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.58	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.58	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.57	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.43	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.48	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.34	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.46	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.44	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.41	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.37	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.31	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.33	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.55	PASS

Band12	5MHz	16QAM	23035	1RB#12	21.78	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.75	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.79	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.79	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.80	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.66	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.53	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.57	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.44	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.52	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.69	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.69	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.64	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.45	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.44	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.36	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.50	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.48	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.37	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.46	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.44	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.56	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.42	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.59	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.59	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.64	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.59	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.43	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.38	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.43	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.43	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.60	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.60	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.50	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.46	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.50	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.32	PASS

Band12	10MHz	QPSK	23130	25RB#0	21.47	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.37	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.47	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.37	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.56	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.63	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.66	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.68	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.64	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.65	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.67	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.48	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.56	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.63	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.48	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.69	PASS
Band12	10MHz	16QAM	23095	25RB#12	20.68	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.61	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.38	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.53	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.21	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.56	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.60	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.47	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.47	PASS

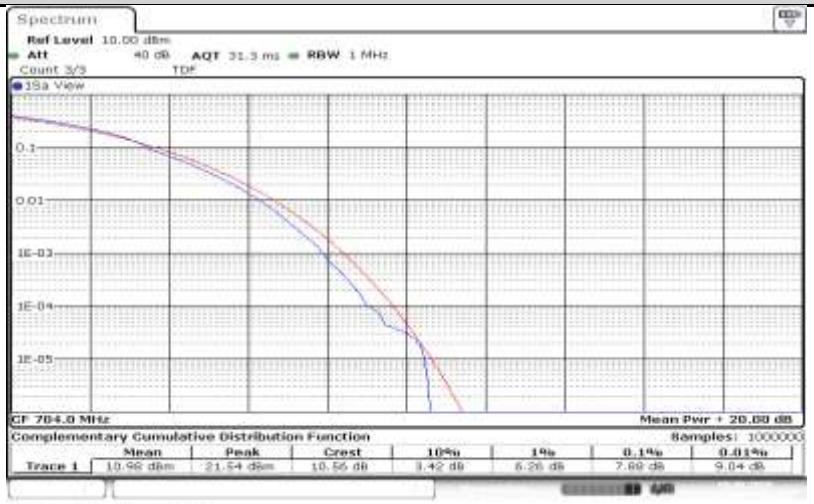
2. Peak-to-Average Ratio (CCDF)

2.1 Test Result

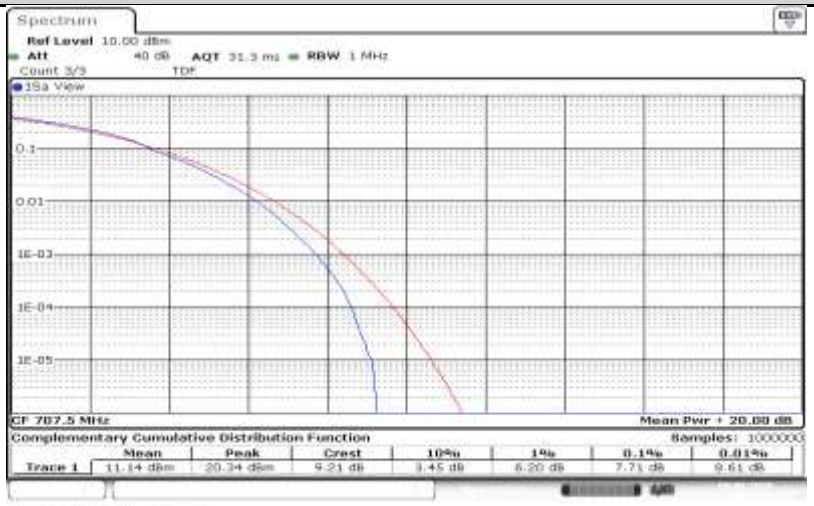
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	7.88	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	7.71	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	7.68	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	7.86	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	7.71	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	7.71	13	PASS

2.2 Test Graphs

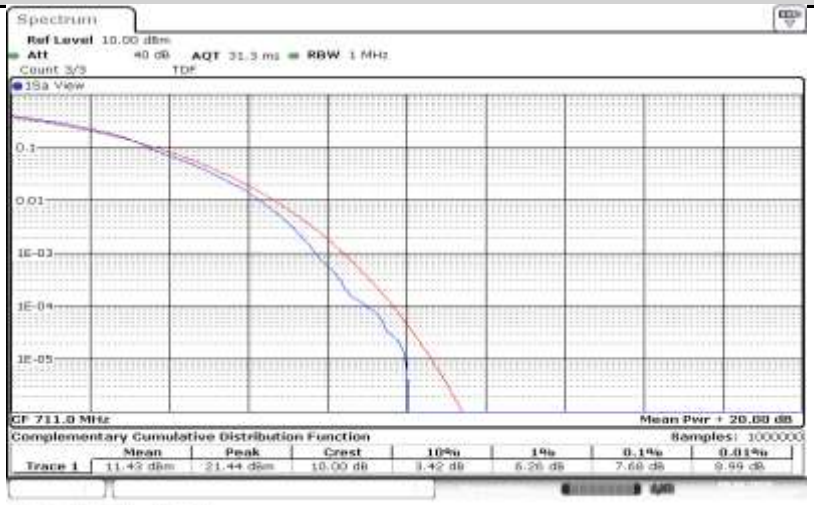
Band12-10MHz-QPSK-23060-50RB#0



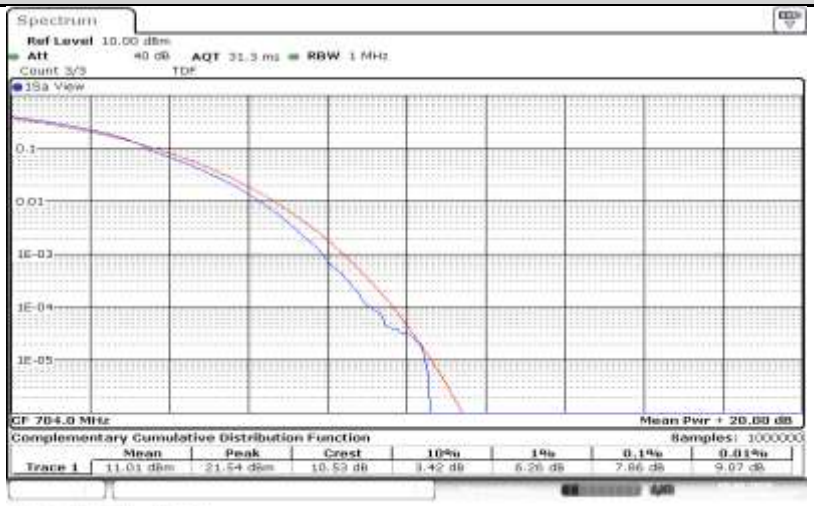
Band12-10MHz-QPSK-23095-50RB#0



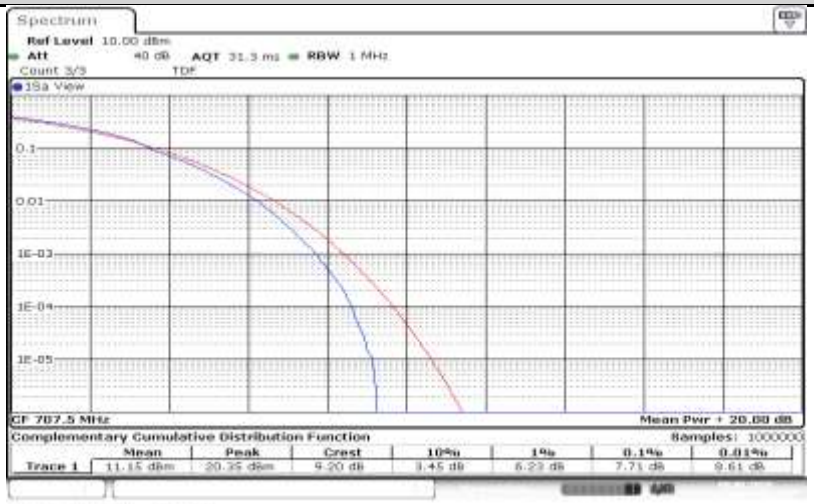
Band12-10MHz-QPSK-23130-50RB#0



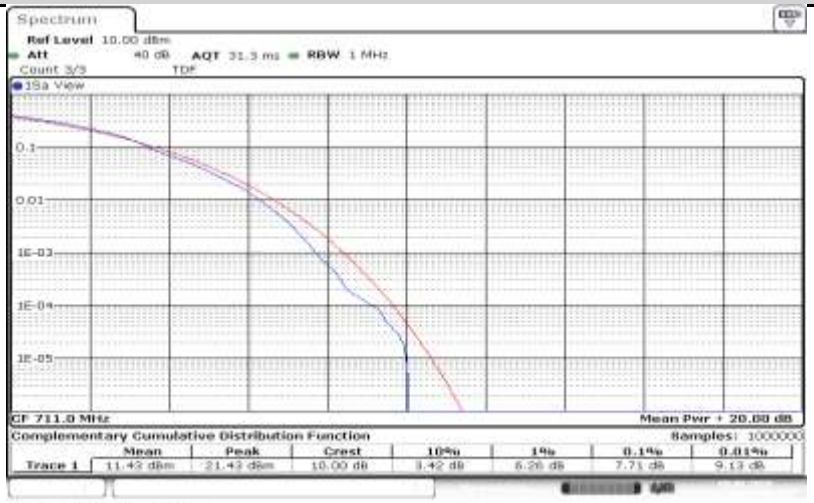
Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-50RB#0



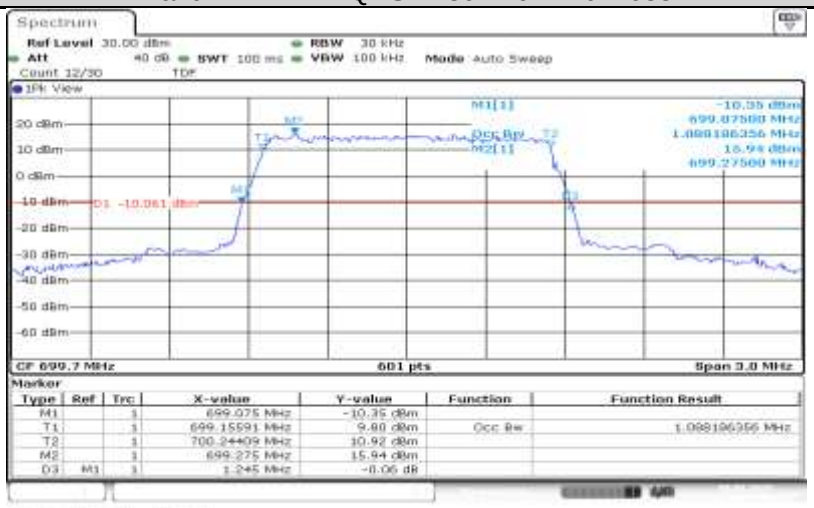
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

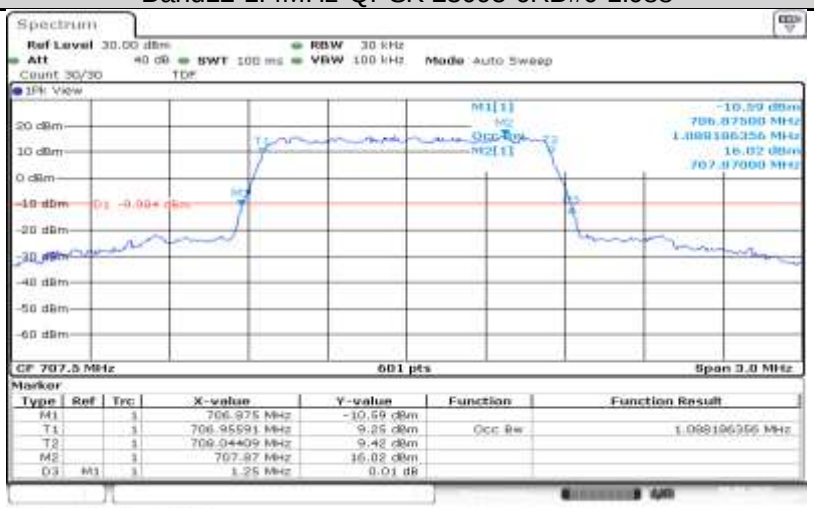
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.088	1.245	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.088	1.250	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.093	1.245	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.230	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.093	1.260	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.088	1.250	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.705	3.020	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.696	3.000	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.705	3.000	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.696	3.000	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.696	3.010	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.696	3.000	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.486	4.930	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.486	4.930	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	4.900	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.486	4.860	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.486	4.860	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.476	4.940	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.985	9.800	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.918	9.700	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.918	9.733	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.952	9.633	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.952	9.700	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.918	9.633	PASS

3.2 Test Graphs

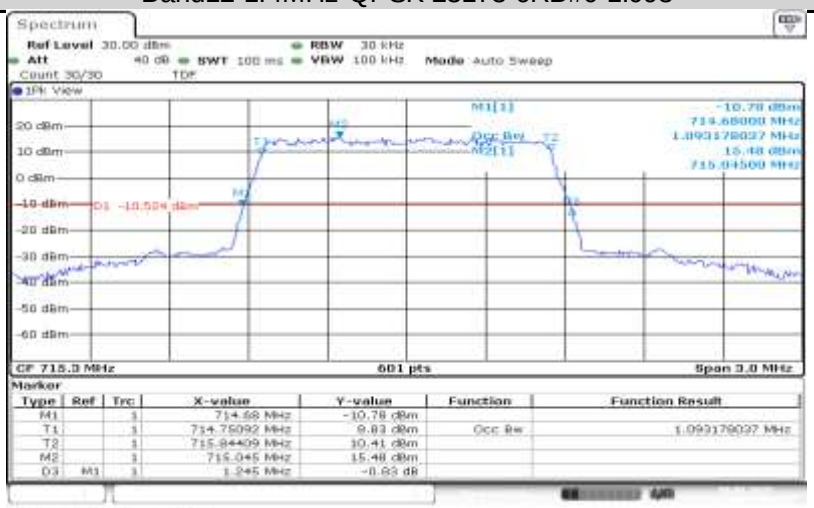
Band12-1.4MHz-QPSK-23017-6RB#0-1.088



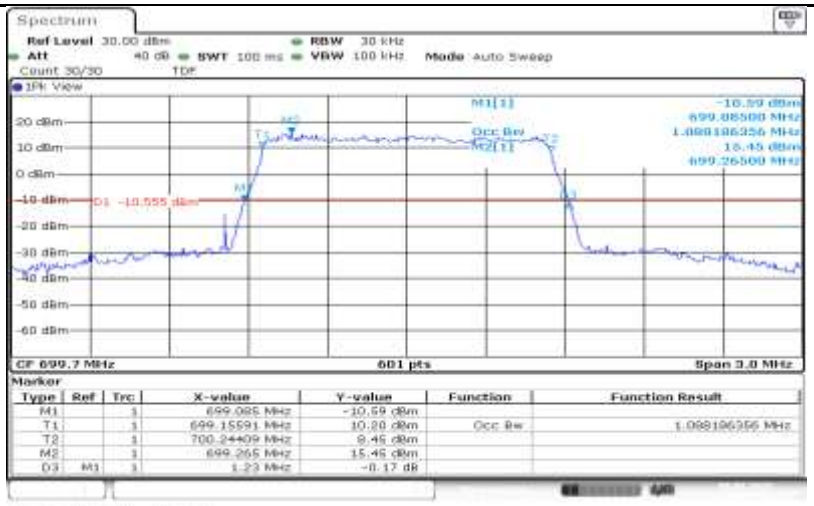
Band12-1.4MHz-QPSK-23095-6RB#0-1.088



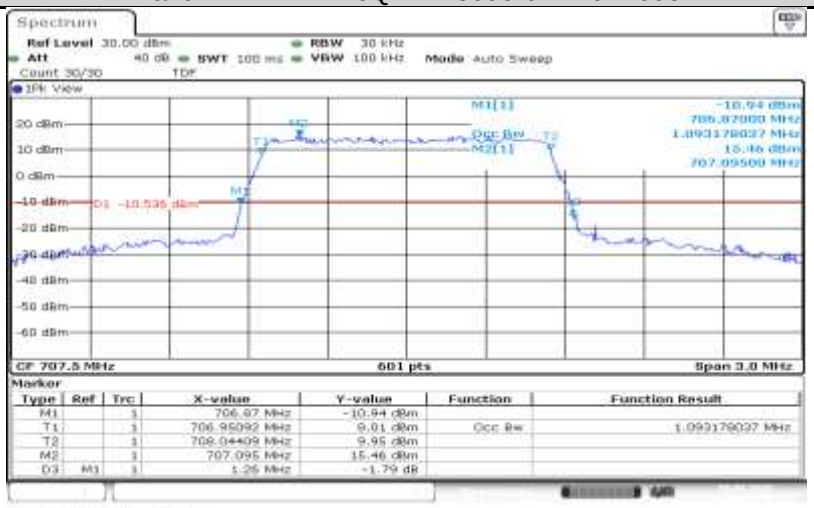
Band12-1.4MHz-QPSK-23173-6RB#0-1.093



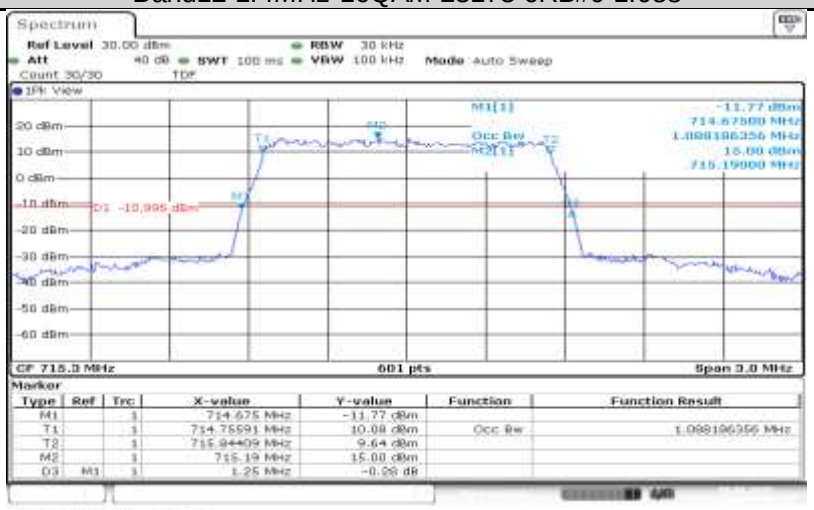
Band12-1.4MHz-16QAM-23017-6RB#0-1.088



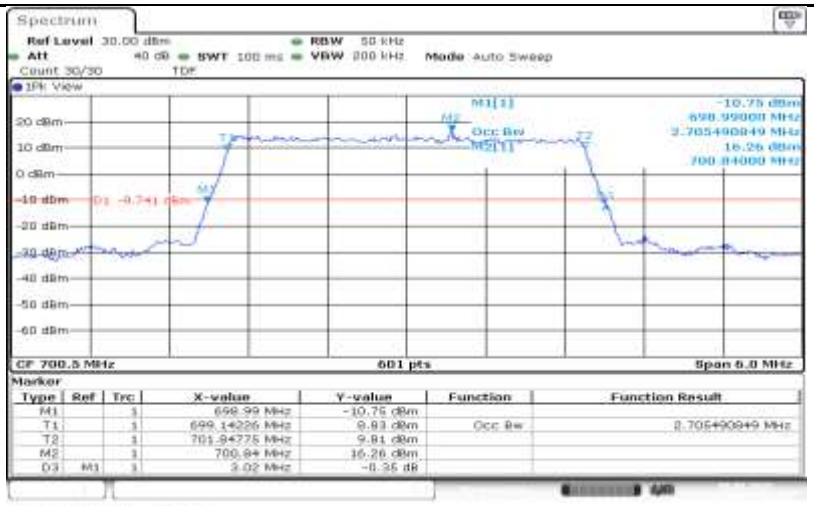
Band12-1.4MHz-16QAM-23095-6RB#0-1.093



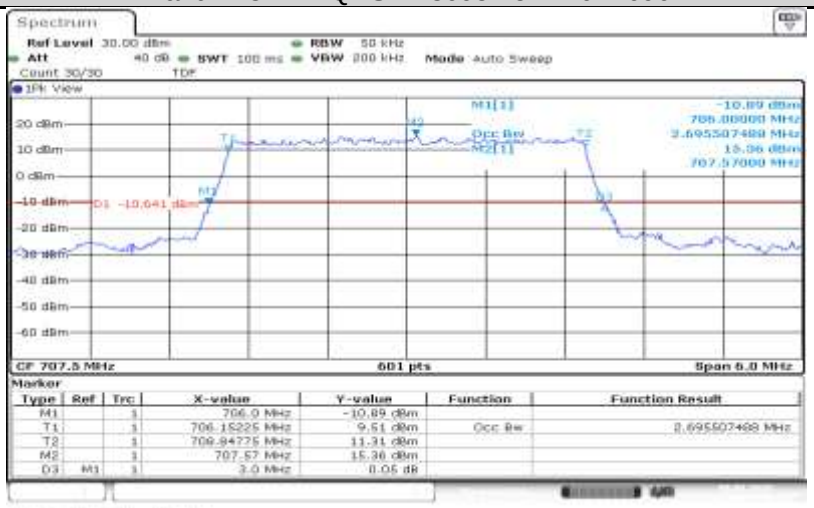
Band12-1.4MHz-16QAM-23173-6RB#0-1.088



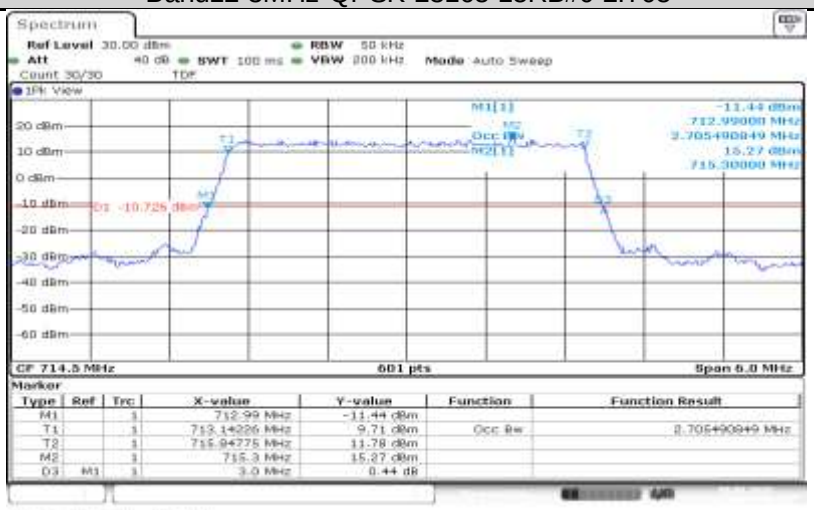
Band12-3MHz-QPSK-23025-15RB#0-2.705



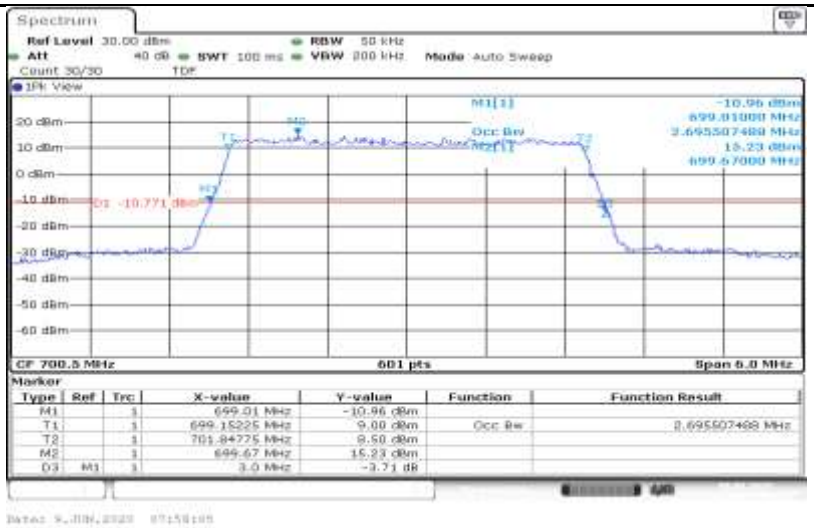
Band12-3MHz-QPSK-23095-15RB#0-2.696



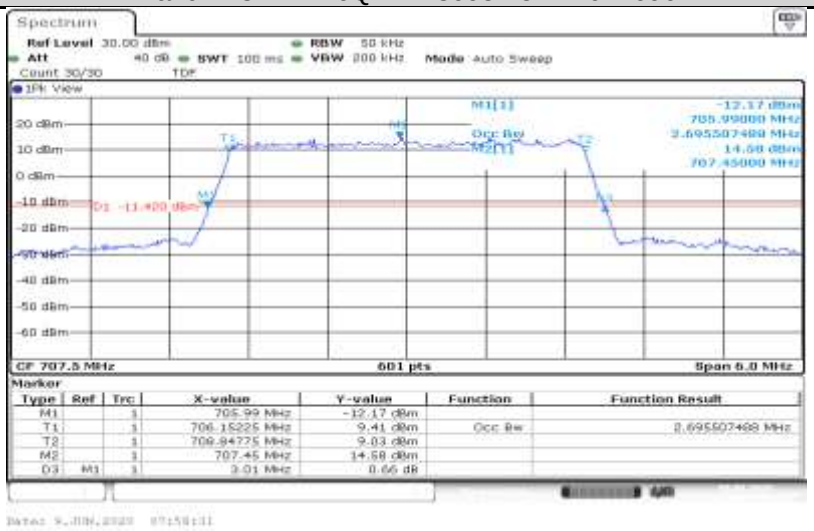
Band12-3MHz-QPSK-23165-15RB#0-2.705



Band12-3MHz-16QAM-23025-15RB#0-2.696

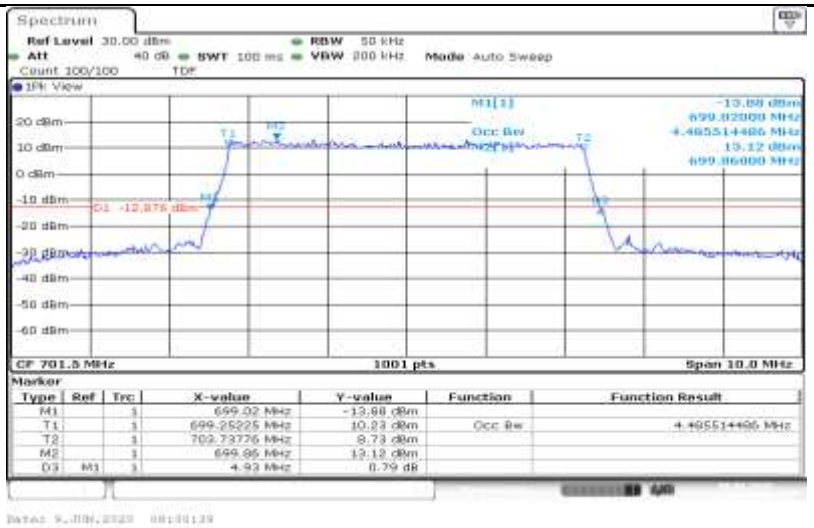


Band12-3MHz-16QAM-23095-15RB#0-2.696

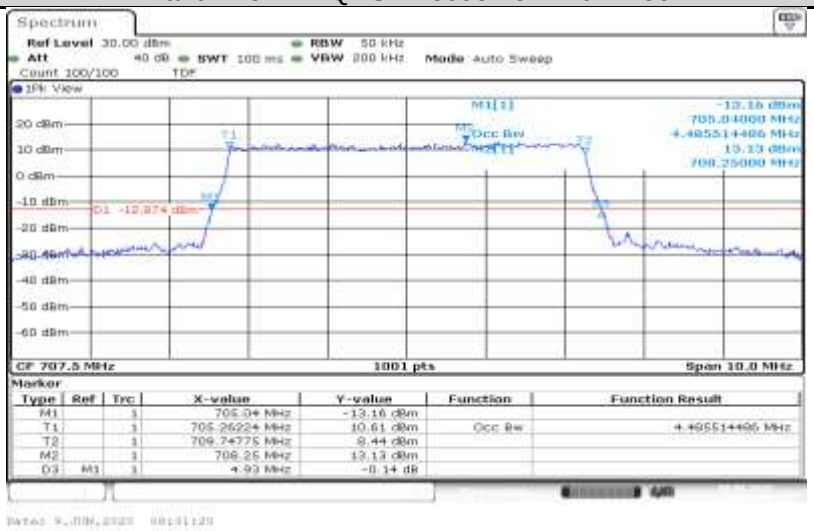


Band12-3MHz-16QAM-23165-15RB#0-2.696

Band12-5MHz-QPSK-23035-25RB#0-4.486

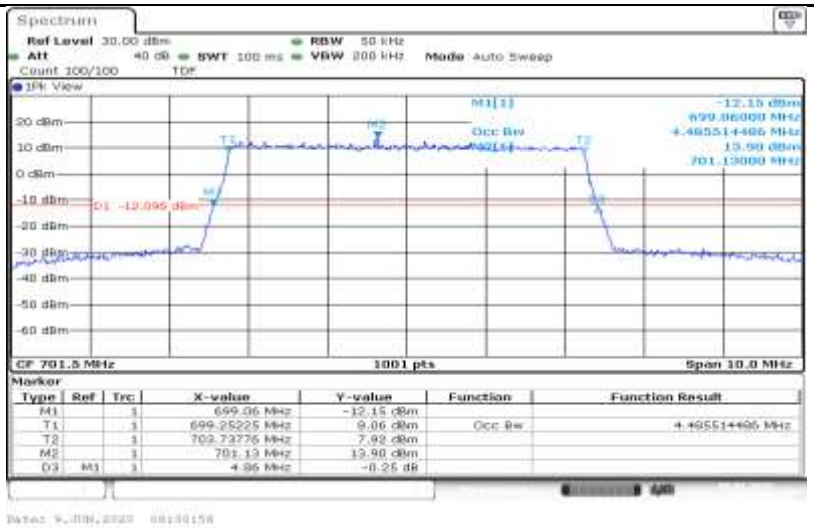


Band12-5MHz-QPSK-23095-25RB#0-4.486

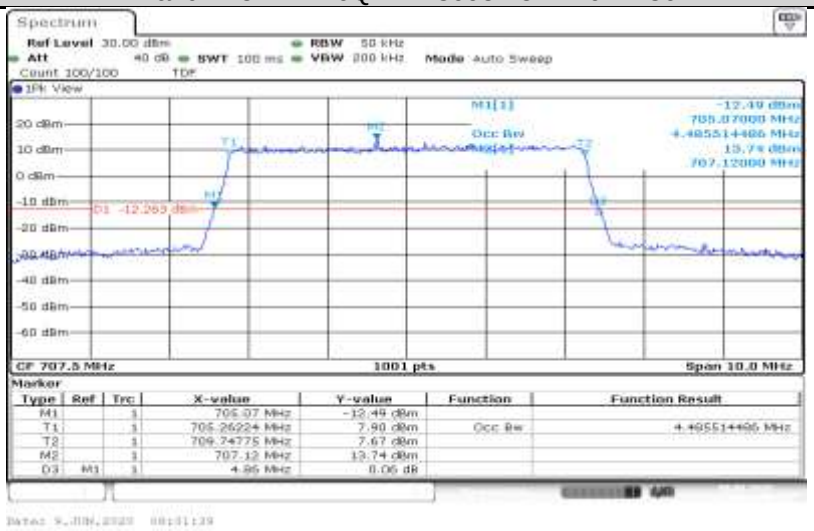


Band12-5MHz-QPSK-23155-25RB#0-4.476

Band12-5MHz-16QAM-23035-25RB#0-4.486



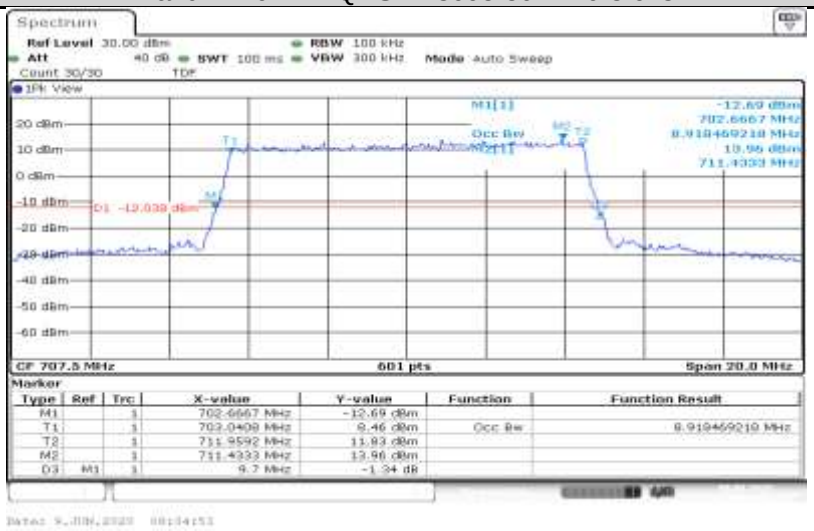
Band12-5MHz-16QAM-23095-25RB#0-4.486



Band12-5MHz-16QAM-23155-25RB#0-4.476

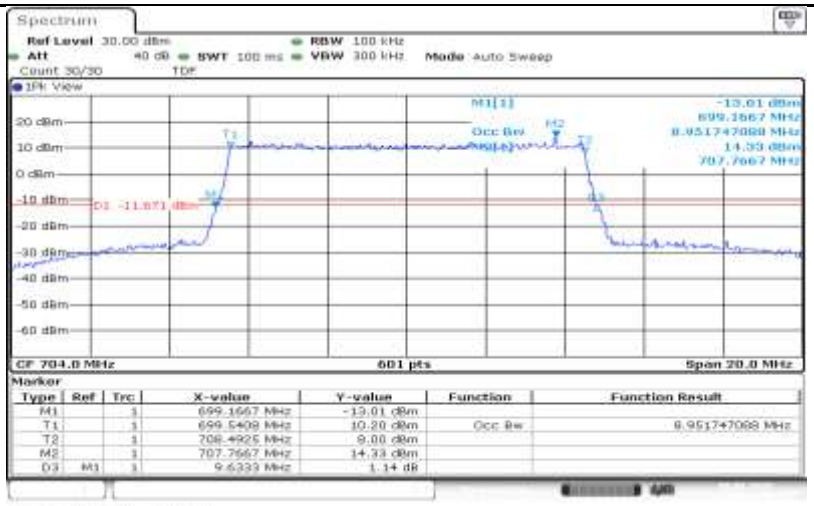
Band12-10MHz-QPSK-23060-50RB#0-8.985

Band12-10MHz-QPSK-23095-50RB#0-8.918

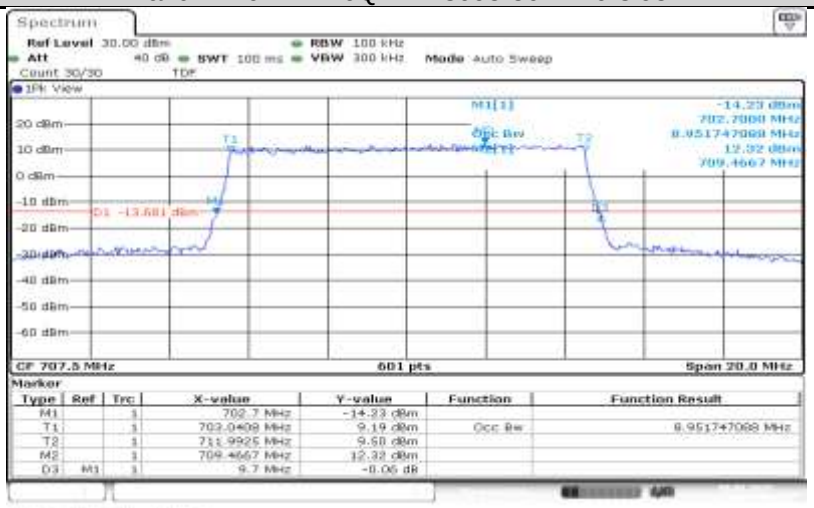


Band12-10MHz-QPSK-23130-50RB#0-8.918

Band12-10MHz-16QAM-23060-50RB#0-8.952



Band12-10MHz-16QAM-23095-50RB#0-8.952



Band12-10MHz-16QAM-23130-50RB#0-8.918

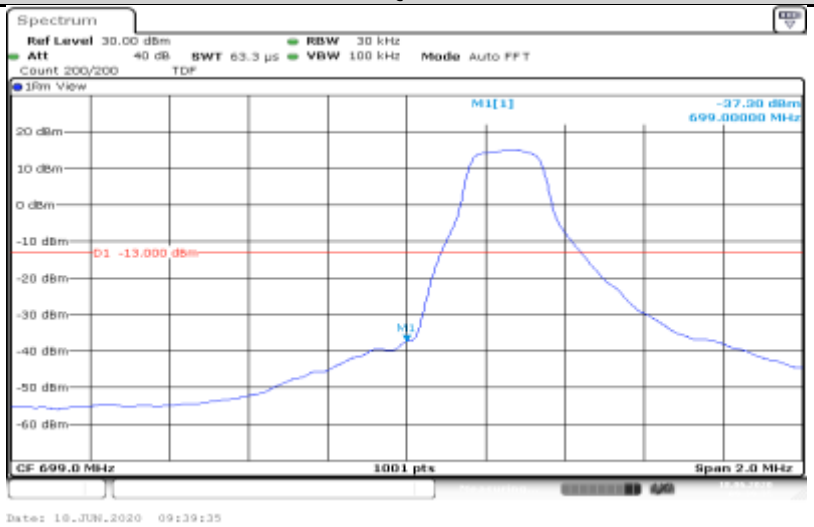
4. Band Edge

4.1 Test Result

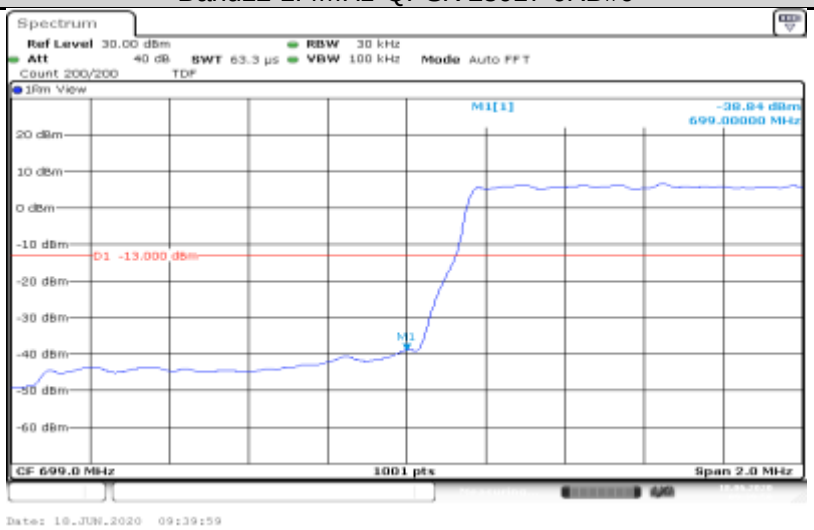
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-37.30	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-38.84	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-37.23	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-37.30	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-36.82	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-40.72	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-37.21	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-40.54	PASS
Band12	3MHz	QPSK	23025	1RB#0	-17.99	PASS
Band12	3MHz	QPSK	23025	15RB#0	-24.09	PASS
Band12	3MHz	QPSK	23165	1RB#14	-18.86	PASS
Band12	3MHz	QPSK	23165	15RB#0	-26.82	PASS
Band12	3MHz	16QAM	23025	1RB#0	-20.09	PASS
Band12	3MHz	16QAM	23025	15RB#0	-28.19	PASS
Band12	3MHz	16QAM	23165	1RB#14	-21.83	PASS
Band12	3MHz	16QAM	23165	15RB#0	-29.42	PASS
Band12	5MHz	QPSK	23035	1RB#0	-24.79	PASS
Band12	5MHz	QPSK	23035	25RB#0	-29.69	PASS
Band12	5MHz	QPSK	23155	1RB#24	-25.64	PASS
Band12	5MHz	QPSK	23155	25RB#0	-31.35	PASS
Band12	5MHz	16QAM	23035	1RB#0	-26.82	PASS
Band12	5MHz	16QAM	23035	25RB#0	-32.59	PASS
Band12	5MHz	16QAM	23155	1RB#24	-25.74	PASS
Band12	5MHz	16QAM	23155	25RB#0	-34.87	PASS
Band12	10MHz	QPSK	23060	1RB#0	-34.93	PASS
Band12	10MHz	QPSK	23060	50RB#0	-32.45	PASS
Band12	10MHz	QPSK	23130	1RB#49	-34.84	PASS
Band12	10MHz	QPSK	23130	50RB#0	-34.40	PASS
Band12	10MHz	16QAM	23060	1RB#0	-37.62	PASS
Band12	10MHz	16QAM	23060	50RB#0	-36.49	PASS
Band12	10MHz	16QAM	23130	1RB#49	-39.36	PASS
Band12	10MHz	16QAM	23130	50RB#0	-37.56	PASS

4.2 Test Graphs

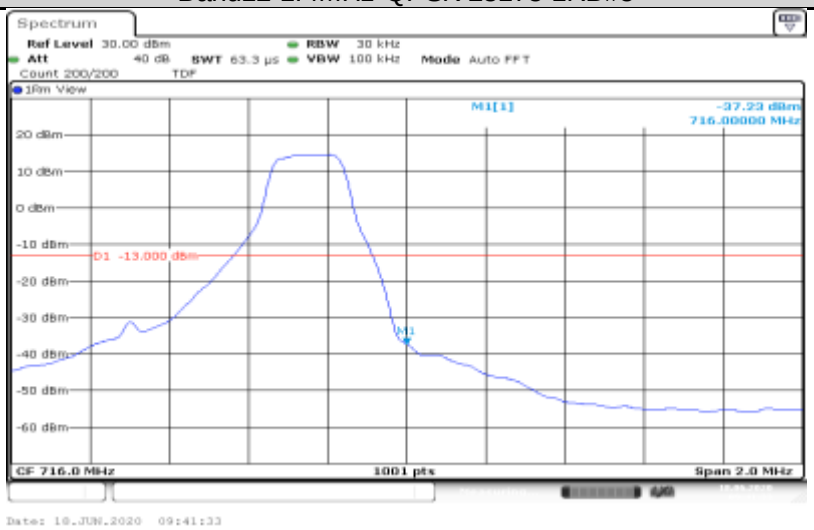
Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-6RB#0

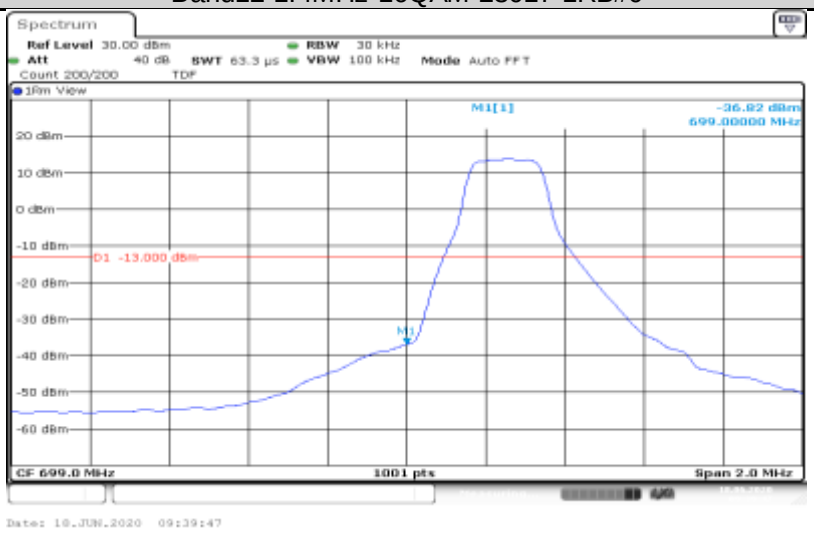


Band12-1.4MHz-QPSK-23173-1RB#5

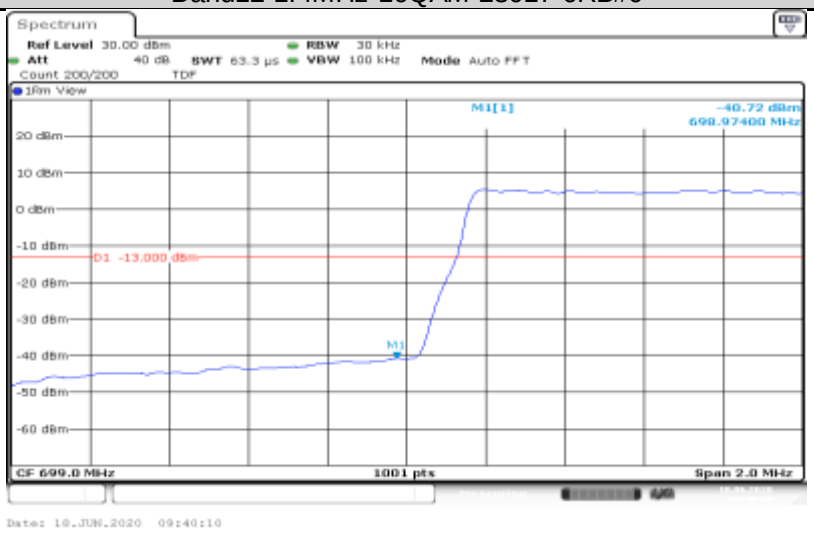


Band12-1.4MHz-QPSK-23173-6RB#0

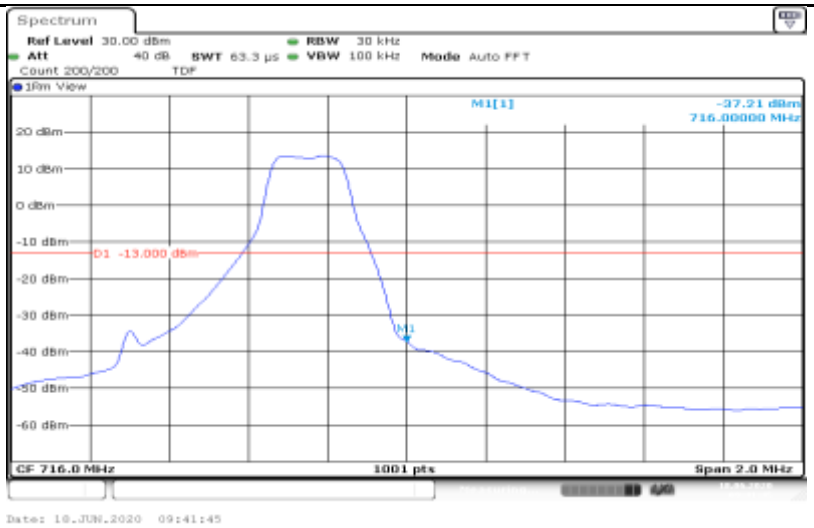
Band12-1.4MHz-16QAM-23017-1RB#0



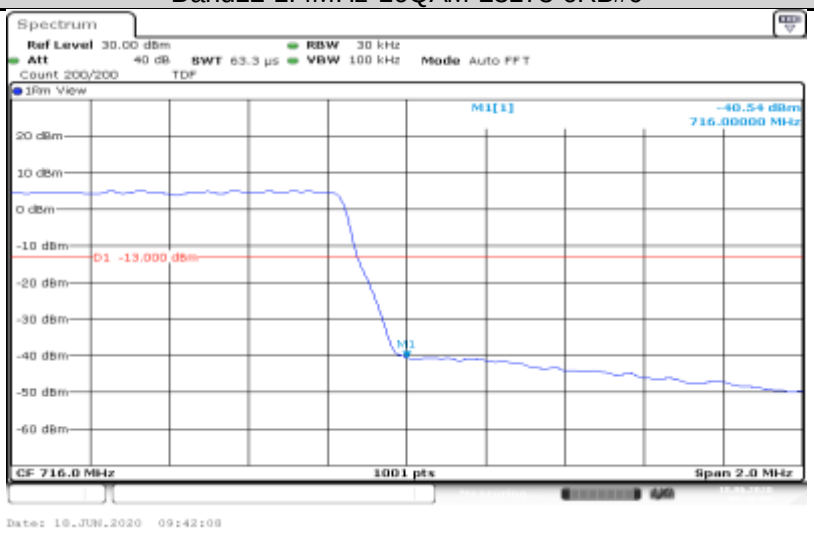
Band12-1.4MHz-16QAM-23017-6RB#0



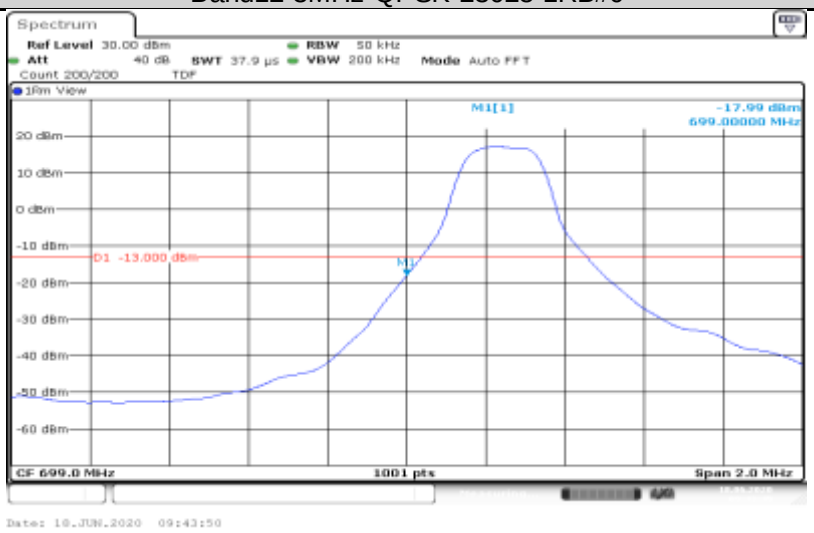
Band12-1.4MHz-16QAM-23173-1RB#5



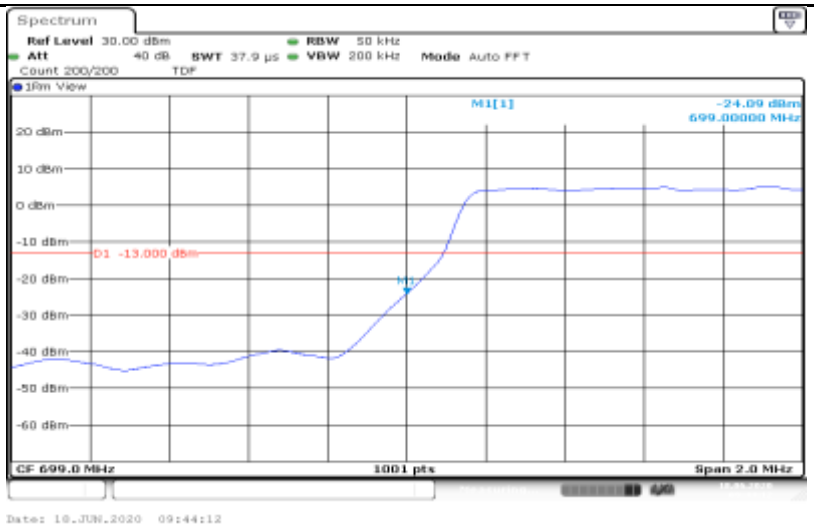
Band12-1.4MHz-16QAM-23173-6RB#0



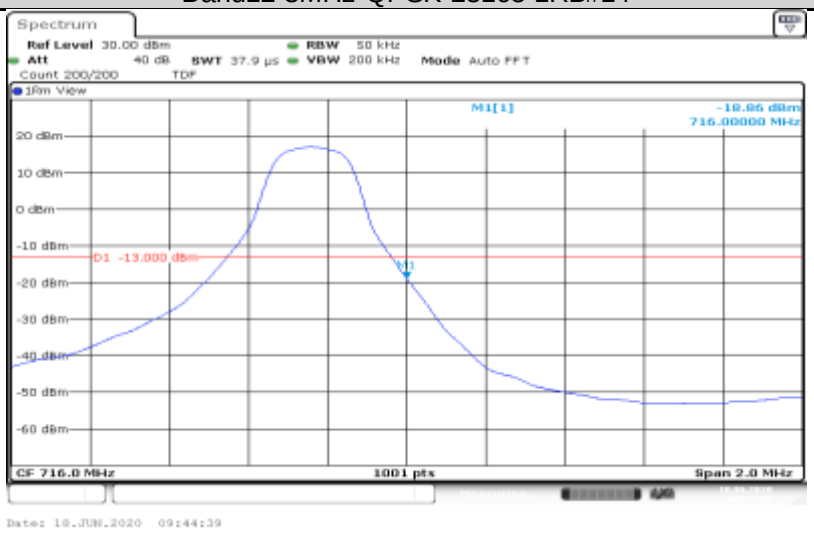
Band12-3MHz-QPSK-23025-1RB#0



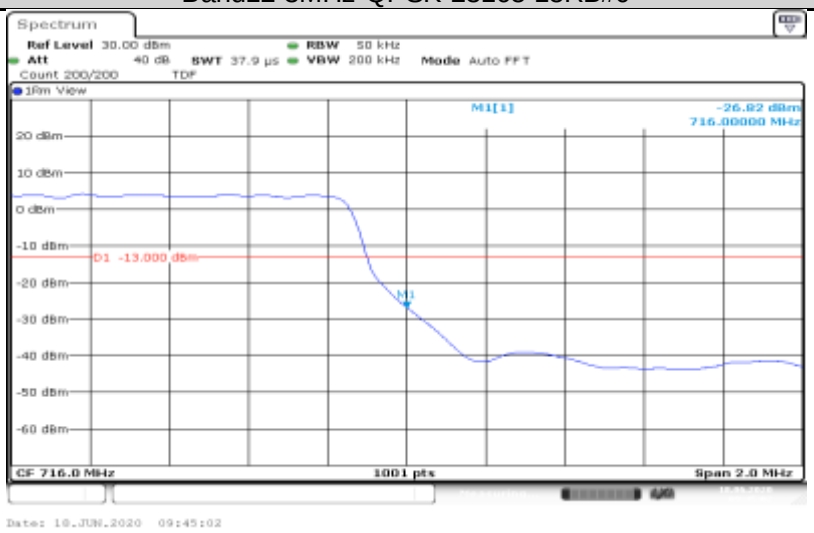
Band12-3MHz-QPSK-23025-15RB#0



Band12-3MHz-QPSK-23165-1RB#14



Band12-3MHz-QPSK-23165-15RB#0



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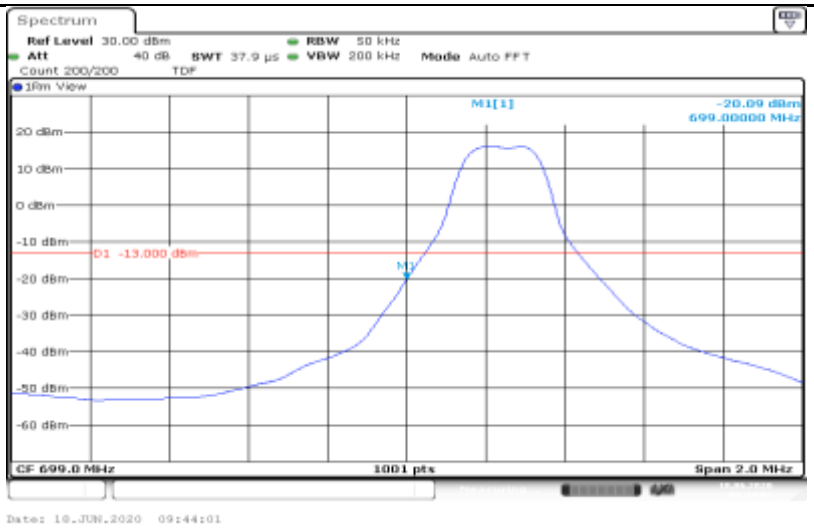

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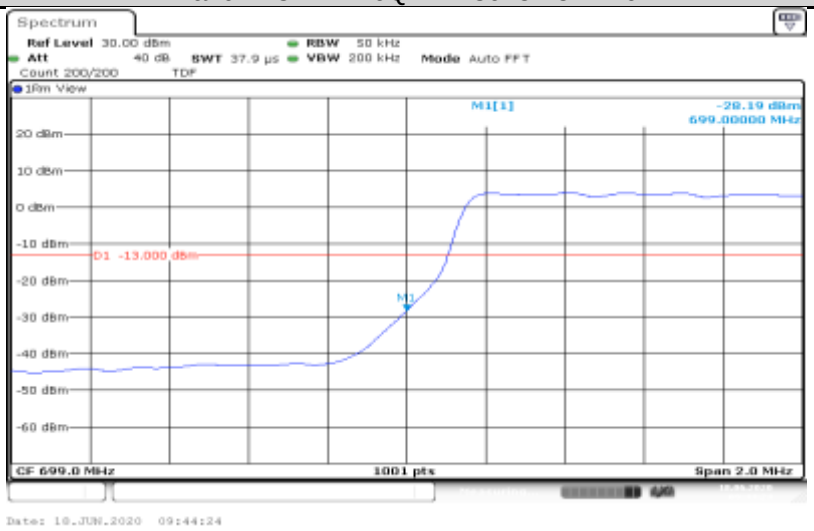
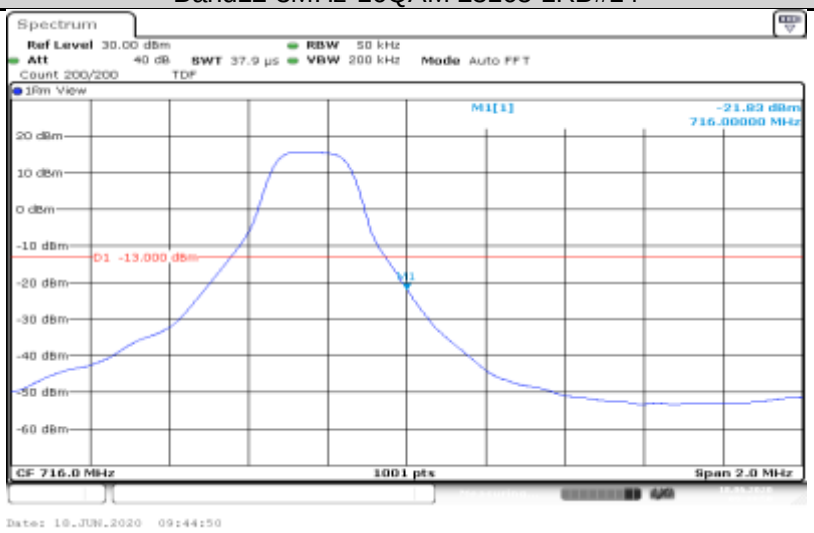
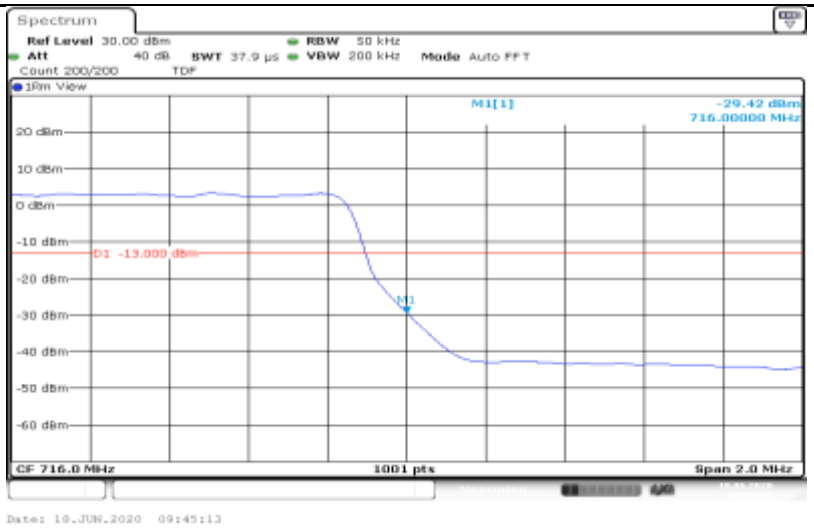


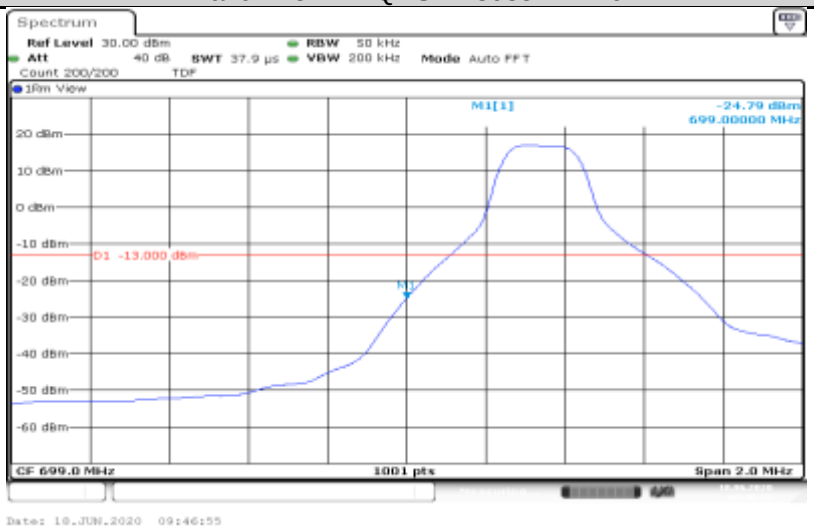
Band12-3MHz-16QAM-23165-1RB#14



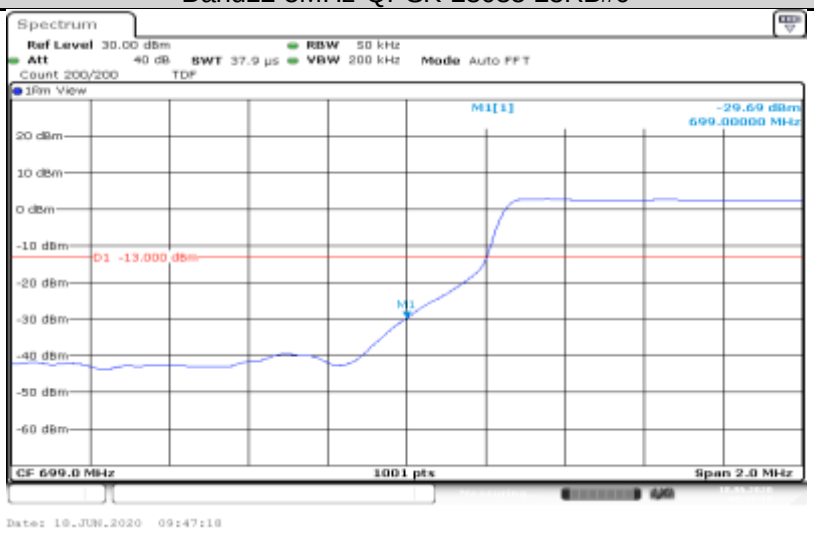
Band12-3MHz-16QAM-23165-15RB#0



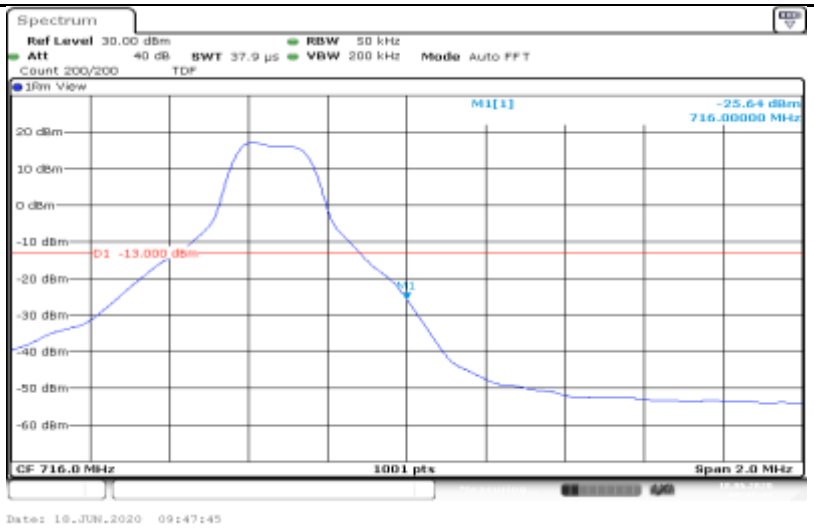
Band12-5MHz-QPSK-23035-1RB#0



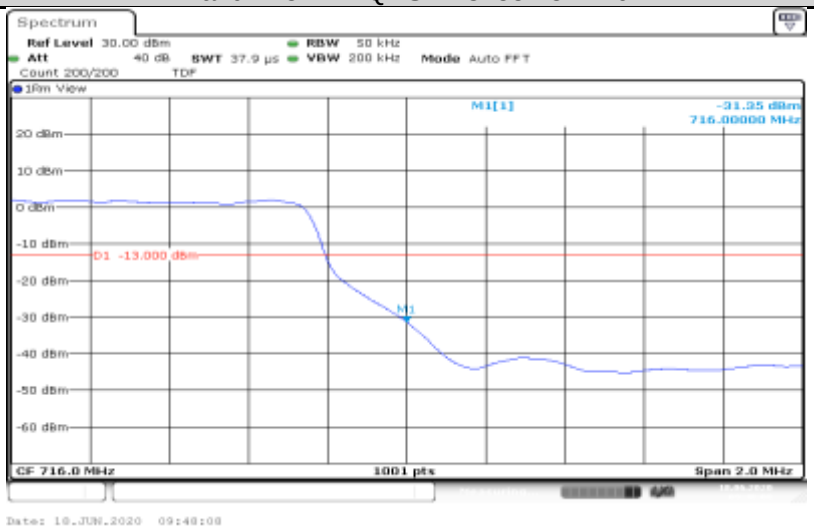
Band12-5MHz-QPSK-23035-25RB#0



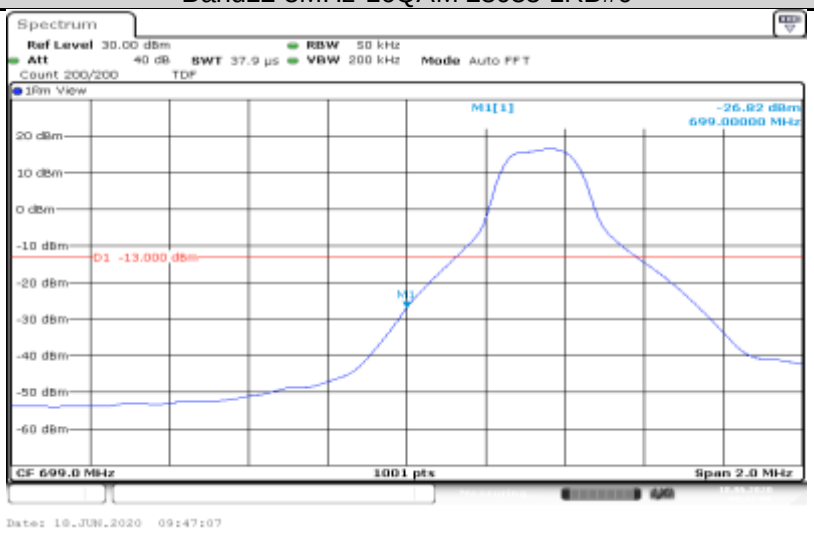
Band12-5MHz-QPSK-23155-1RB#24



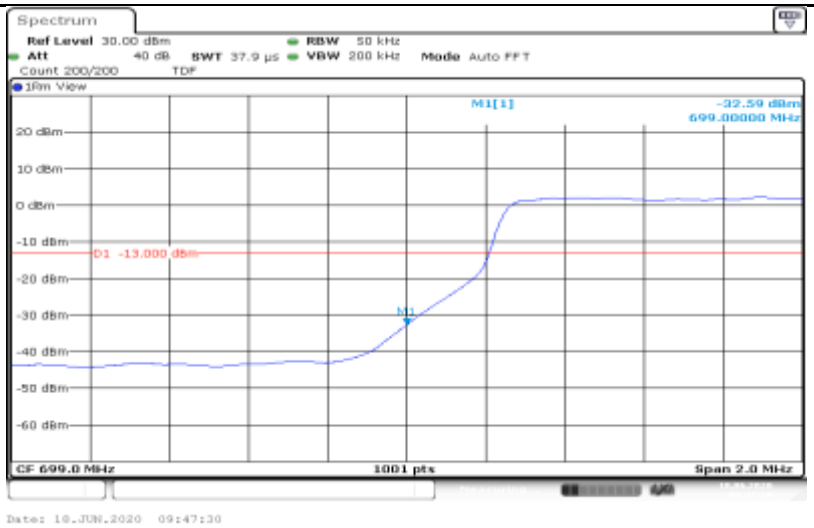
Band12-5MHz-QPSK-23155-25RB#0



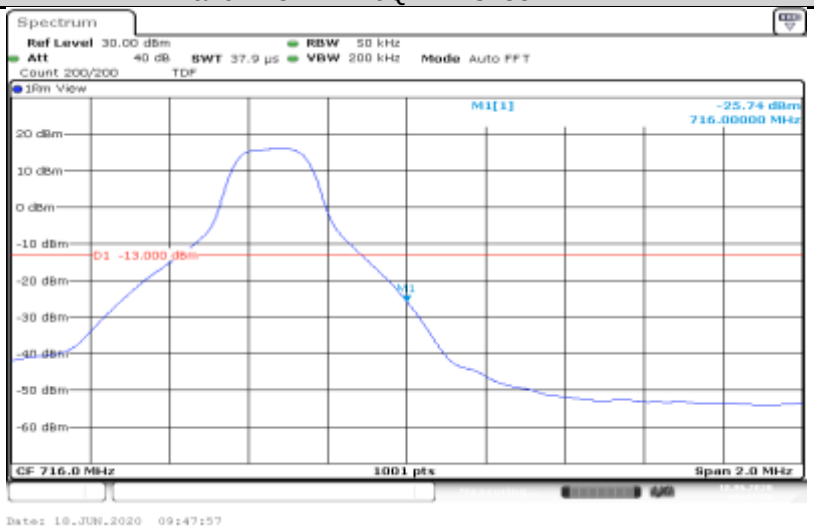
Band12-5MHz-16QAM-23035-1RB#0



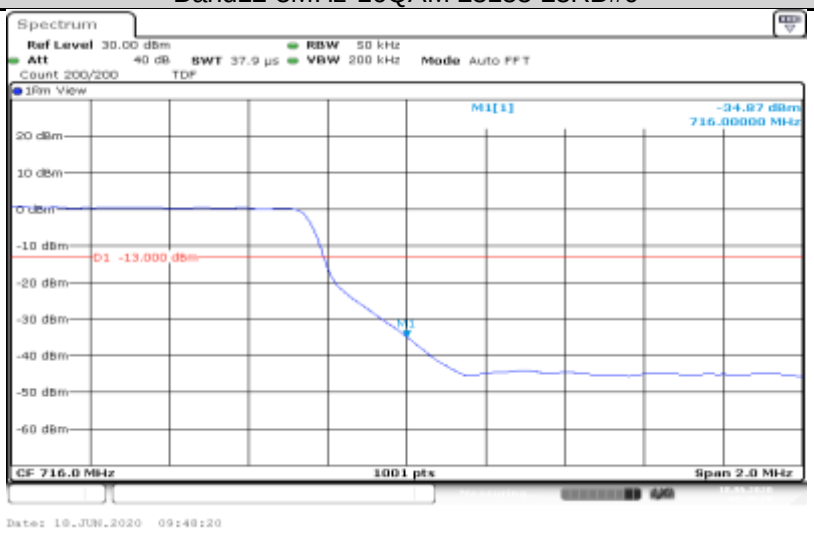
Band12-5MHz-16QAM-23035-25RB#0



Band12-5MHz-16QAM-23155-1RB#24



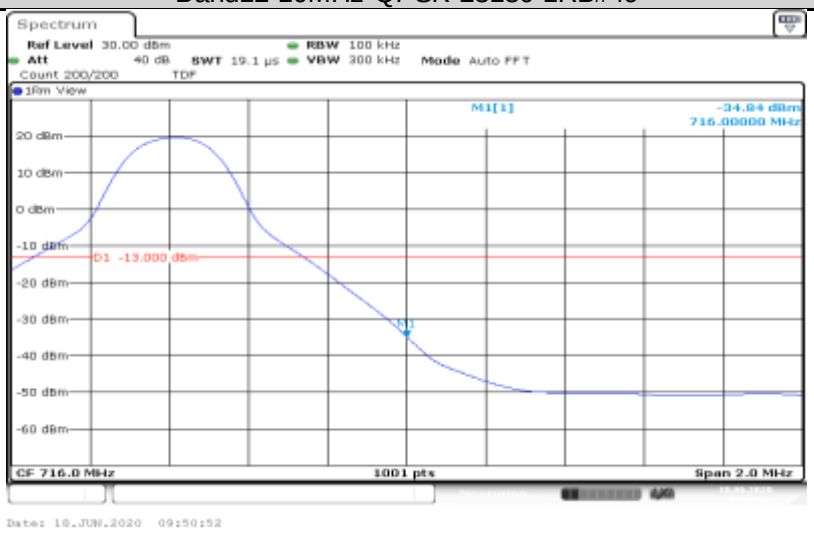
Band12-5MHz-16QAM-23155-25RB#0



Band12-10MHz-QPSK-23060-1RB#0

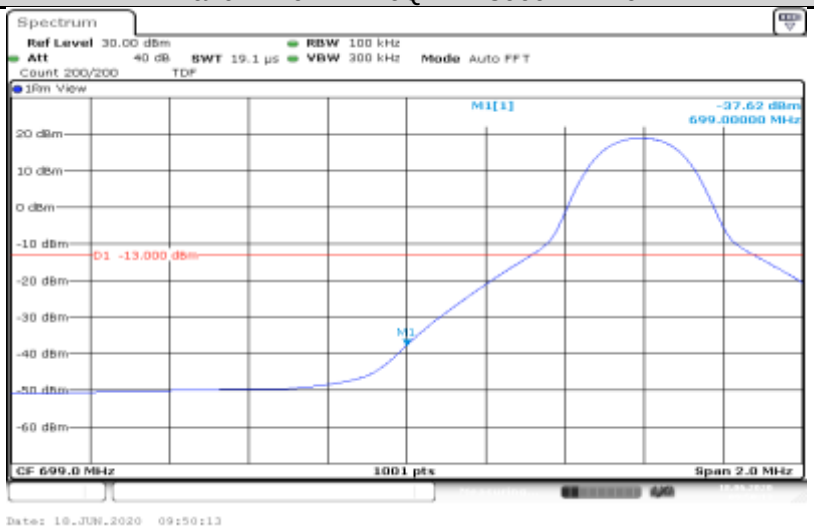
Band12-10MHz-QPSK-23060-50RB#0

Band12-10MHz-QPSK-23130-1RB#49

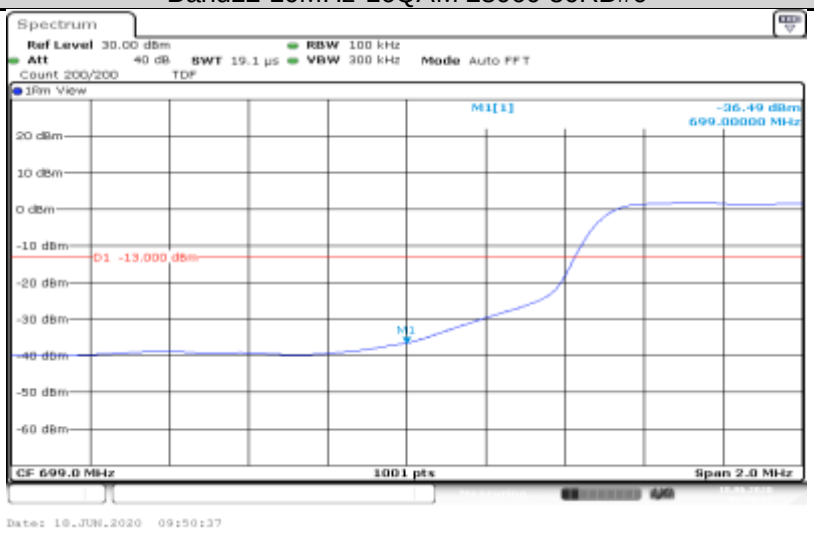


Band12-10MHz-QPSK-23130-50RB#0

Band12-10MHz-16QAM-23060-1RB#0

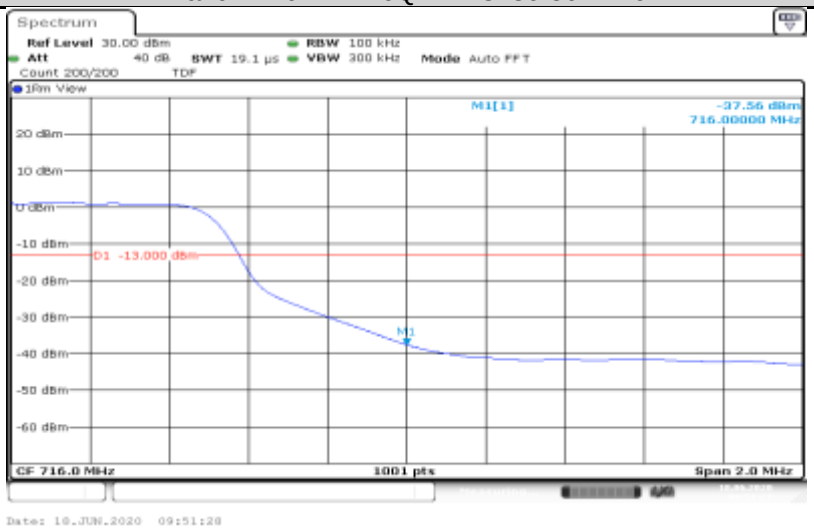


Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23130-1RB#49

Band12-10MHz-16QAM-23130-50RB#0



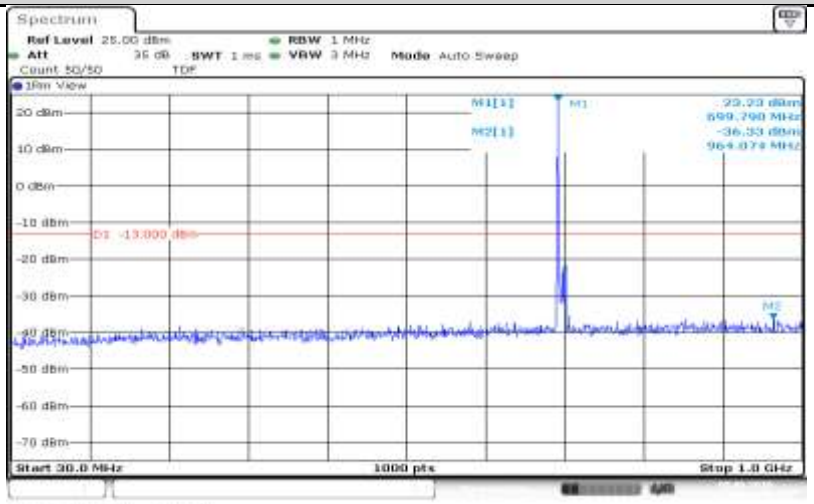
5. Conducted Spurious Emission

5.1 Test Result

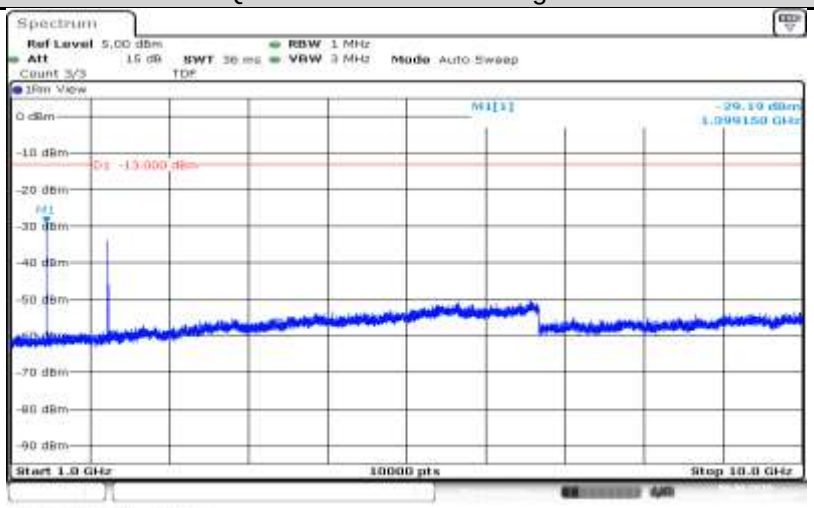
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	Range1:30~1000MHz	-36.33	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range2:1000~10000MHz	-29.19	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-36.52	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-28.63	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:30~1000MHz	-36.06	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:1000~10000MHz	-28.91	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range1:30~1000MHz	-35.98	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range2:1000~10000MHz	-27.37	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-35.33	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-30.99	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range1:30~1000MHz	-35.96	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range2:1000~10000MHz	-26.29	PASS

5.2 Test Graphs

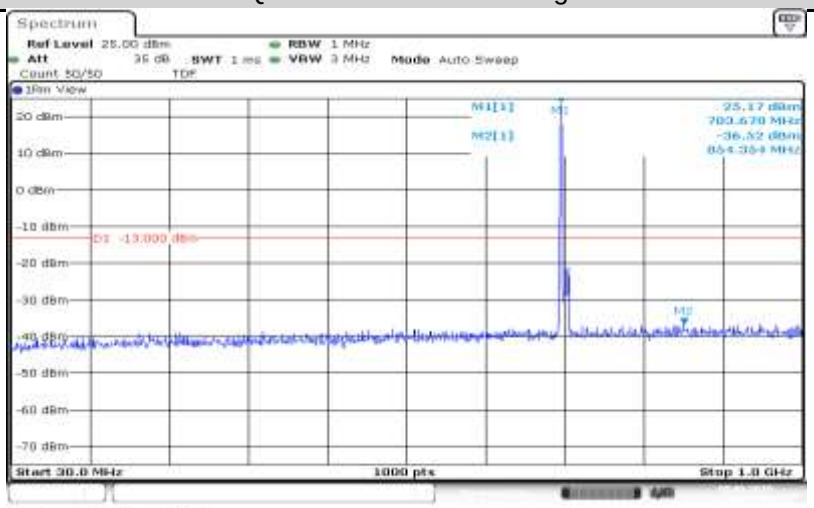
Band12-10MHz-QPSK-23060-1RB#0-Range1:30~1000MHz



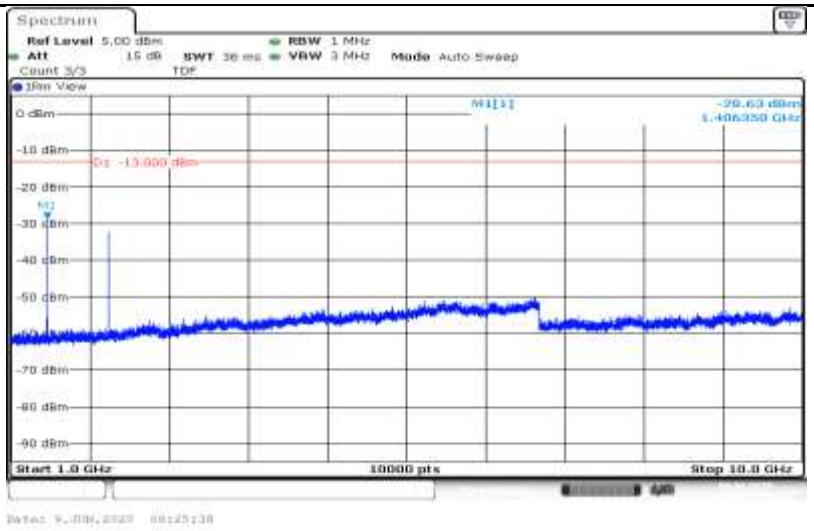
Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



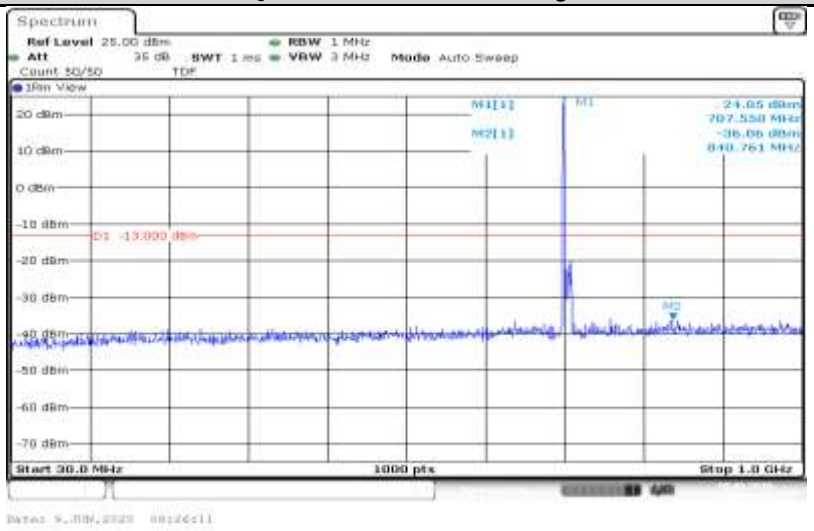
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



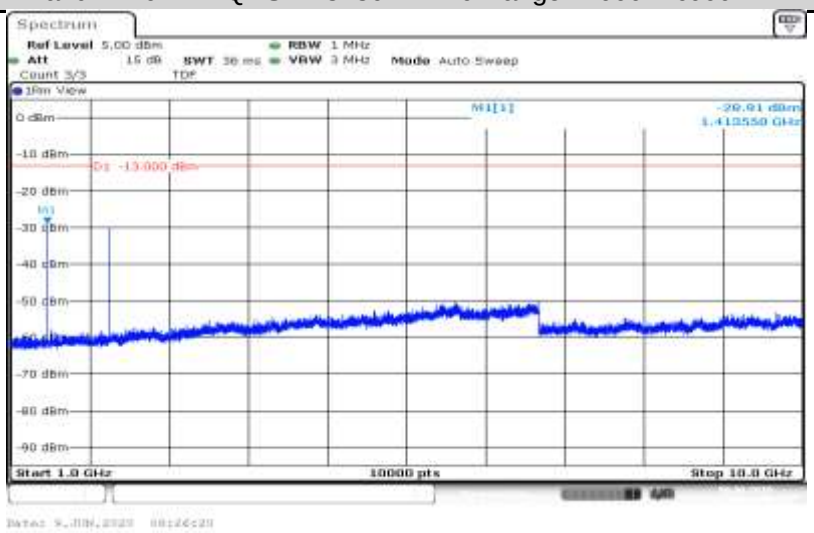
Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



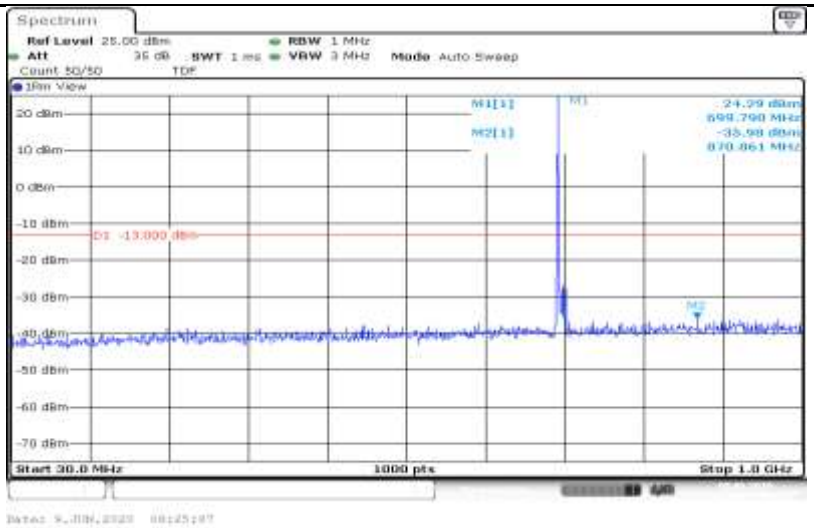
Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



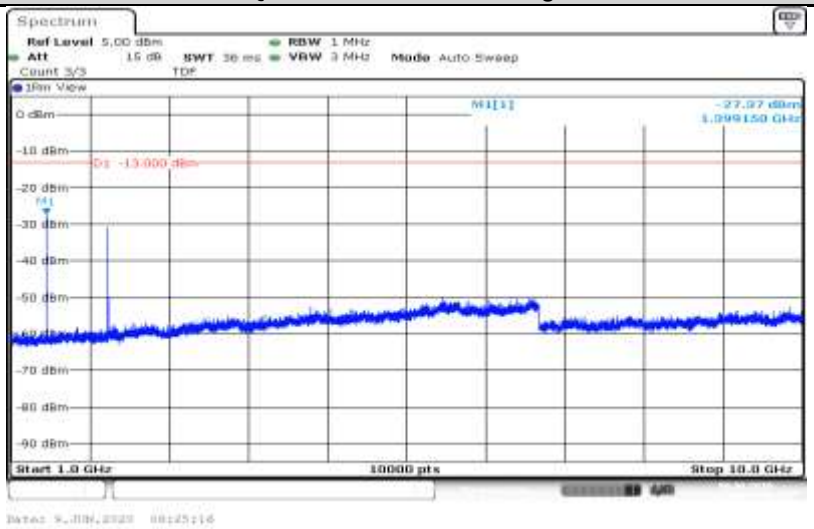
Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



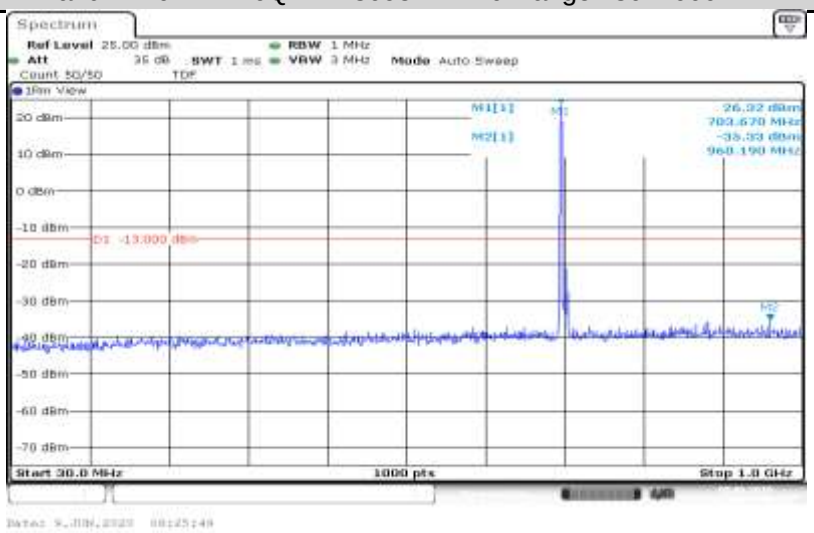
Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz



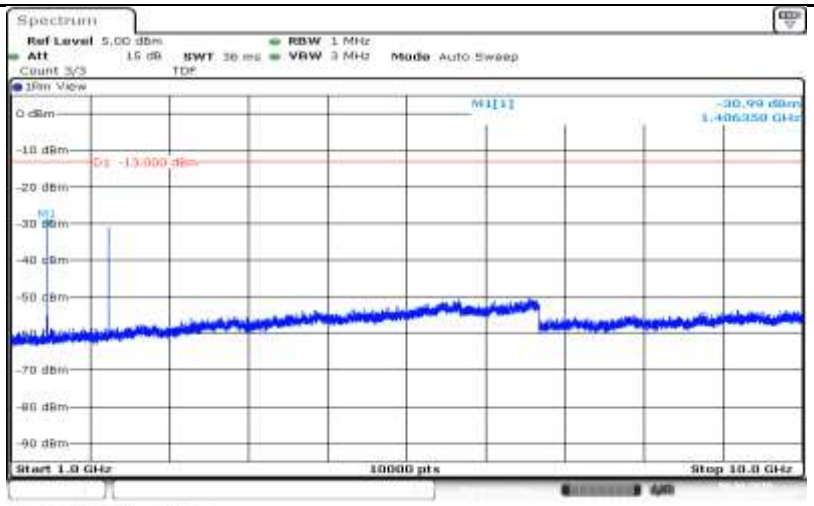
Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz



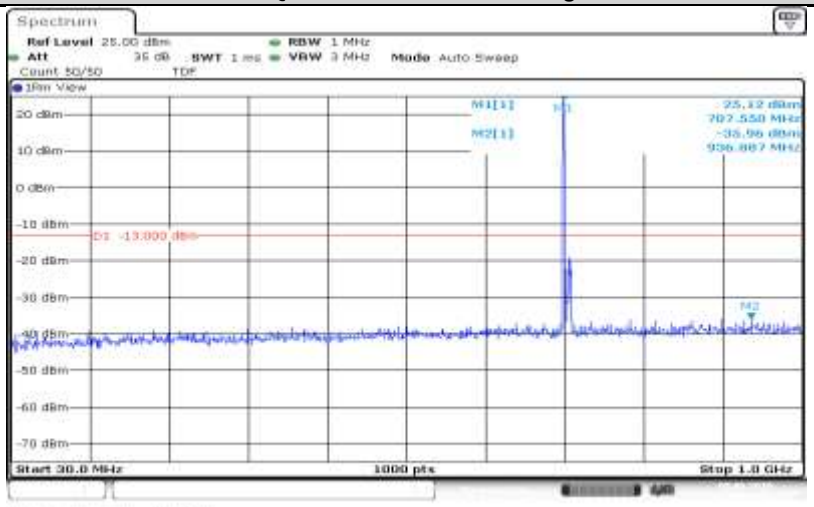
Band12-10MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



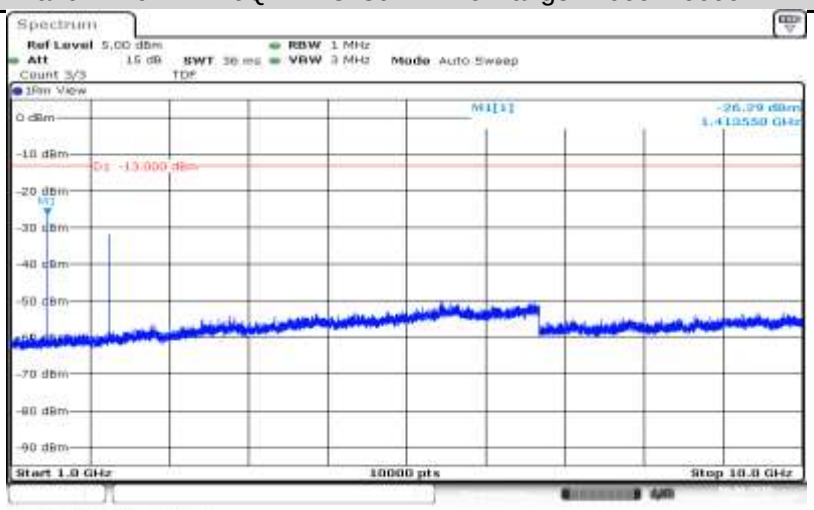
Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Band12-10MHz-16QAM-23130-1RB#0-Range1:30~1000MHz



Band12-10MHz-16QAM-23130-1RB#0-Range2:1000~10000MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-2.22	-0.003153	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	5.55	0.007884	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	4.29	0.006094	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-4.26	-0.006021	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-9.33	-0.013187	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-6.78	-0.009583	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-6.61	-0.009297	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-5.74	-0.008073	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	4.31	0.006062	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	4.31	0.006122	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-3.23	-0.004588	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-1.29	-0.001832	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	2.05	0.002898	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-7.18	-0.010148	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-3.09	-0.004367	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	4.36	0.006132	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-6.79	-0.009550	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	2.75	0.003868	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	1.43	0.002031	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	8.04	0.011420	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	3.91	0.005554	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-1.76	-0.002500	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	6.87	0.009759	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	3.45	0.004901	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-1.90	-0.002699	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-3.92	-0.005568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	55	4.52	0.006420	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-8.87	-0.012537	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-11.76	-0.016622	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-3.96	-0.005597	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-5.42	-0.007661	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-7.72	-0.010912	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-8.48	-0.011986	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-10.44	-0.014756	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-3.40	-0.004806	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	55	-4.75	-0.006714	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	2.90	0.004079	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-1.13	-0.001589	±2.5	PASS

Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.86	-0.004023	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-3.29	-0.004627	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-3.35	-0.004712	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-2.53	-0.003558	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-3.52	-0.004951	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-5.12	-0.007201	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	55	-6.07	-0.008537	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	6.32	0.008977	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	3.71	0.005270	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-1.16	-0.001648	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	7.28	0.010341	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	5.21	0.007401	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	1.95	0.002770	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-3.58	-0.005085	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	5.91	0.008395	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	55	4.62	0.006563	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-5.54	-0.007830	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-8.61	-0.012170	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-9.71	-0.013724	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-2.16	-0.003053	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-5.29	-0.007477	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-6.01	-0.008495	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-8.60	-0.012155	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-9.98	-0.014106	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	55	-3.68	-0.005201	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	1.79	0.002518	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-2.37	-0.003333	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-3.63	-0.005105	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-4.11	-0.005781	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-5.45	-0.007665	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-5.69	-0.008003	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-7.17	-0.010084	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-7.35	-0.010338	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	55	-8.61	-0.012110	±2.5	PASS

Appendix H: Test Results of LTE Band 13 operation

Contents

1. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA 2
1.1 Test Result 2
2. PEAK-TO-AVERAGE RATIO (CCDF) 4
2.1 Test Result 4
2.2 Test Graphs 4
3. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 5
3.1 Test Result 5
3.2 Test Graphs 6
4. BAND EDGE 9
4.1 Test Result 9
4.2 Test Graphs 10
5. CONDUCTED SPURIOUS EMISSION 15
5.1 Test Result 15
5.2 Test Graphs 15
6. FREQUENCY STABILITY 17
6.1 Test Result 17

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#12	22.74	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.60	PASS
Band13	5MHz	QPSK	23205	1RB#0	22.70	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.65	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.63	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.63	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.60	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.59	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.64	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.57	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.57	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.61	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.58	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.62	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.64	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.60	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.69	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.59	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.55	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.54	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.60	PASS
Band13	5MHz	16QAM	23205	1RB#12	21.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.69	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.64	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.70	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.69	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.73	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.70	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.76	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.78	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.85	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.71	PASS

Band13	5MHz	16QAM	23230	12RB#6	20.74	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.70	PASS
Band13	5MHz	16QAM	23230	25RB#0	20.67	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.53	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.67	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.72	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.67	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.72	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.78	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.73	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.64	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.69	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.68	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.69	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.72	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.68	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.63	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.62	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.55	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.75	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.79	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.82	PASS
Band13	10MHz	16QAM	23230	50RB#0	20.75	PASS

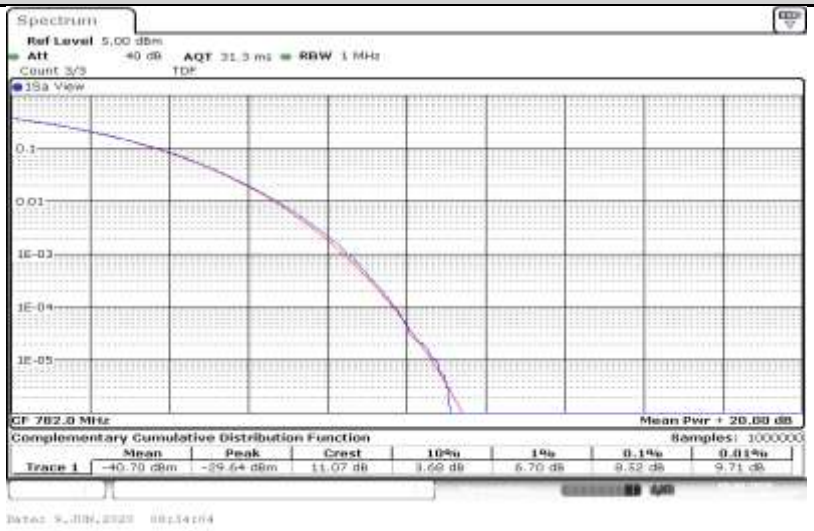
2. Peak-to-Average Ratio（CCDF）

2.1 Test Result

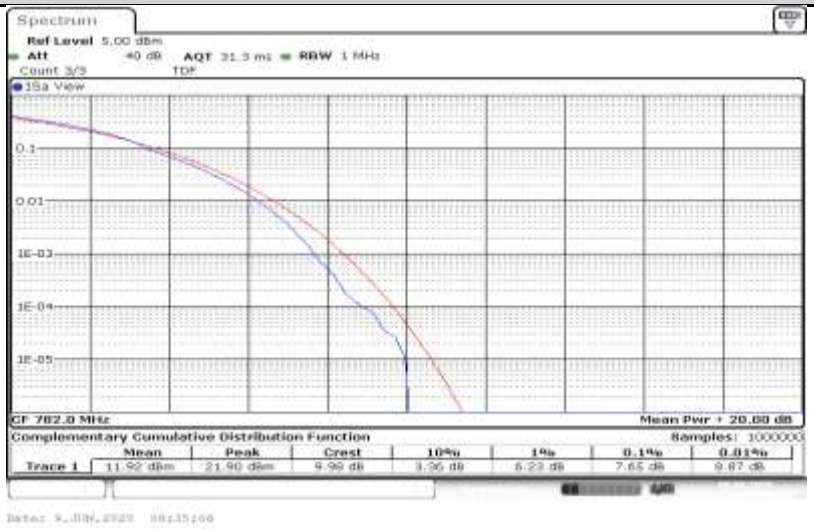
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	8.52	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	7.65	13	PASS

2.2 Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0



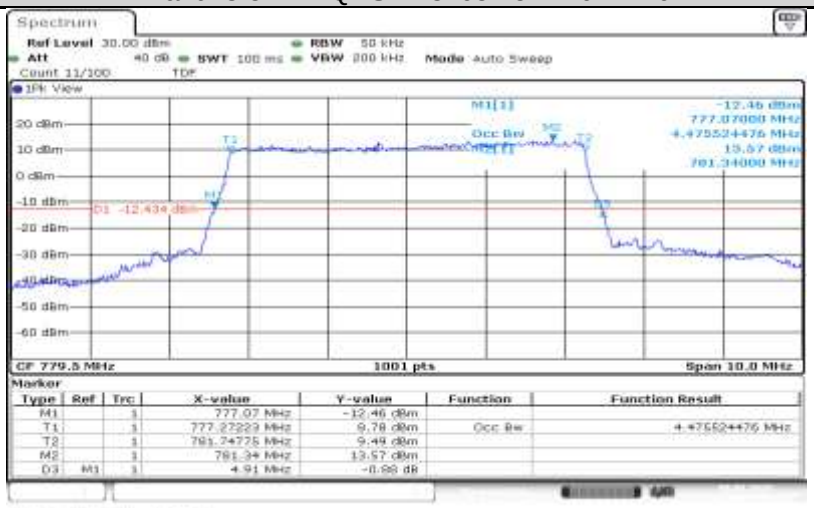
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.476	4.910	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.476	4.900	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.496	4.950	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.476	4.880	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.476	4.910	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.496	4.890	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.918	9.767	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.918	9.667	PASS

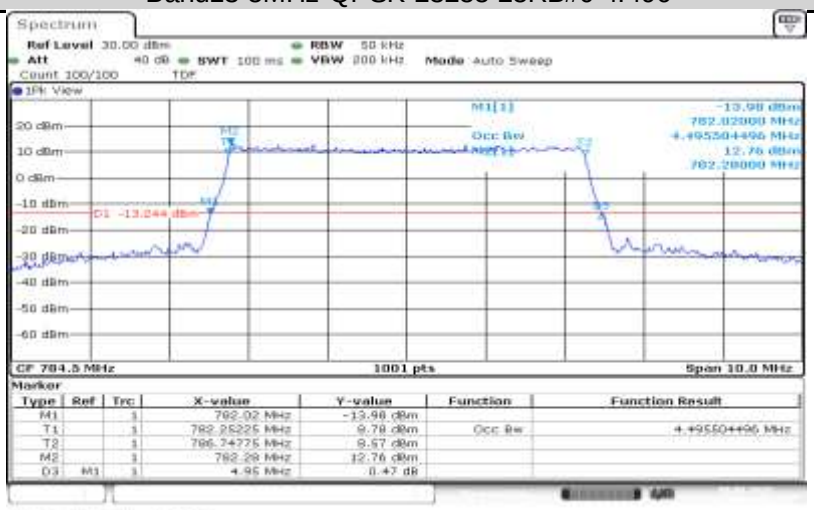
3.2 Test Graphs

Band13-5MHz-QPSK-23205-25RB#0-4.476



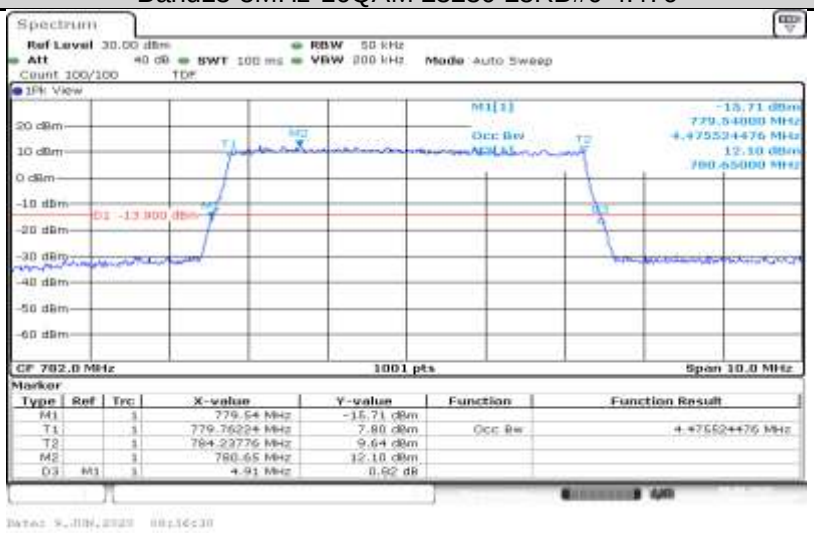
Band13-5MHz-QPSK-23230-25RB#0-4.476

Band13-5MHz-QPSK-23255-25RB#0-4.496



Band13-5MHz-16QAM-23205-25RB#0-4.476

Band13-5MHz-16QAM-23230-25RB#0-4.476



Band13-5MHz-16QAM-23255-25RB#0-4.496

Band13-10MHz-QPSK-23230-50RB#0-8.918

Band13-10MHz-16QAM-23230-50RB#0-8.918

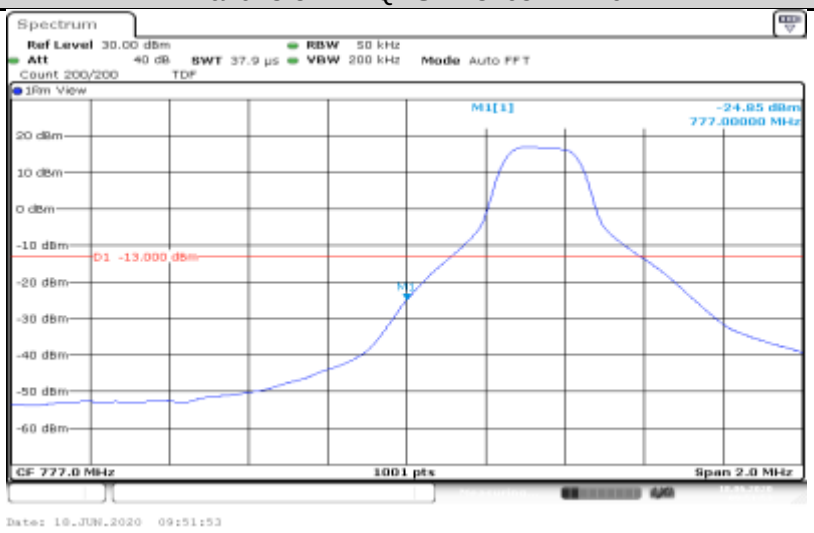
4. Band Edge

4.1 Test Result

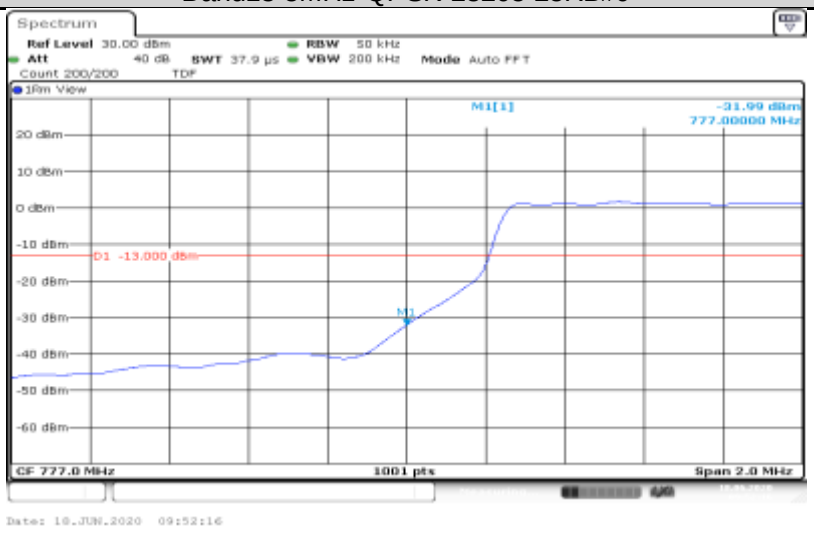
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	-24.85	PASS
Band13	5MHz	QPSK	23205	25RB#0	-31.99	PASS
Band13	5MHz	QPSK	23255	1RB#24	-25.93	PASS
Band13	5MHz	QPSK	23255	25RB#0	-30.05	PASS
Band13	5MHz	16QAM	23205	1RB#0	-26.85	PASS
Band13	5MHz	16QAM	23205	25RB#0	-33.67	PASS
Band13	5MHz	16QAM	23255	1RB#24	-26.49	PASS
Band13	5MHz	16QAM	23255	25RB#0	-32.44	PASS
Band13	10MHz	QPSK	23230	1RB#49	-49.14,-36.05	PASS
Band13	10MHz	QPSK	23230	1RB#0	-34.28,-49.04	PASS
Band13	10MHz	QPSK	23230	50RB#0	-34.52,-33.61	PASS
Band13	10MHz	16QAM	23230	1RB#49	-49.63,-40.50	PASS
Band13	10MHz	16QAM	23230	1RB#0	-36.34,-49.11	PASS
Band13	10MHz	16QAM	23230	50RB#0	-38.68,-36.14	PASS

4.2 Test Graphs

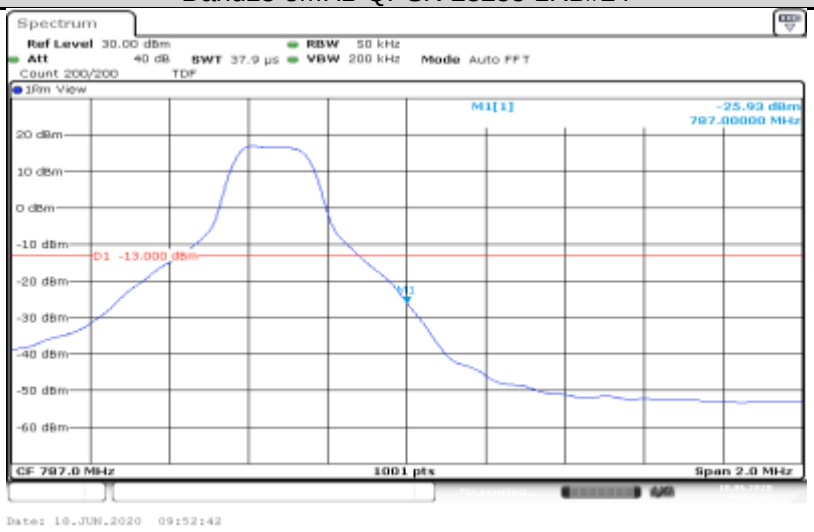
Band13-5MHz-QPSK-23205-1RB#0



Band13-5MHz-QPSK-23205-25RB#0



Band13-5MHz-QPSK-23255-1RB#24



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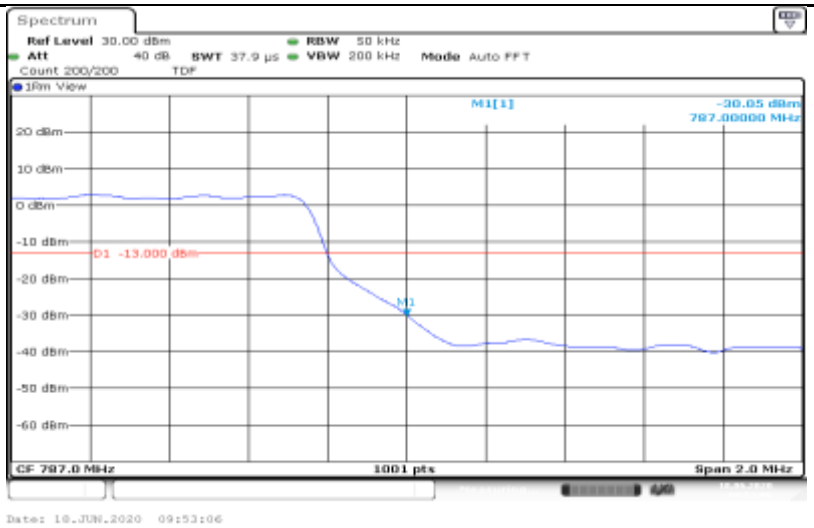
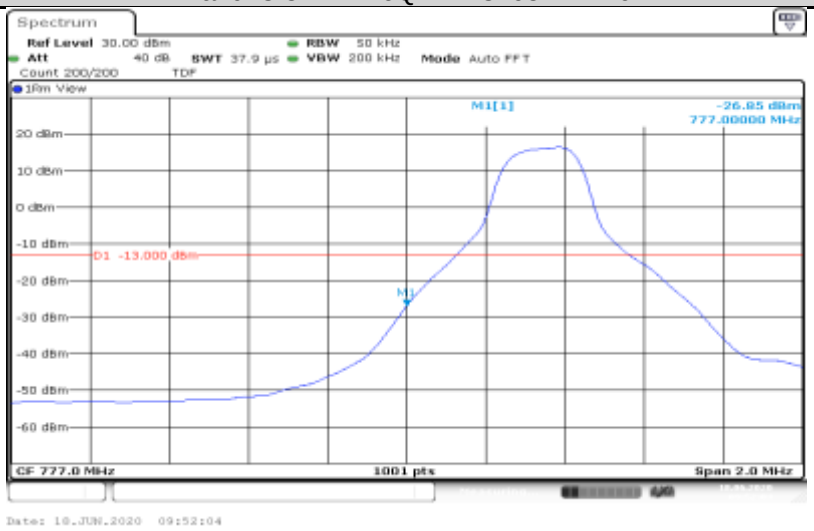


Band13-5MHz-16QAM-23205-1RB#0



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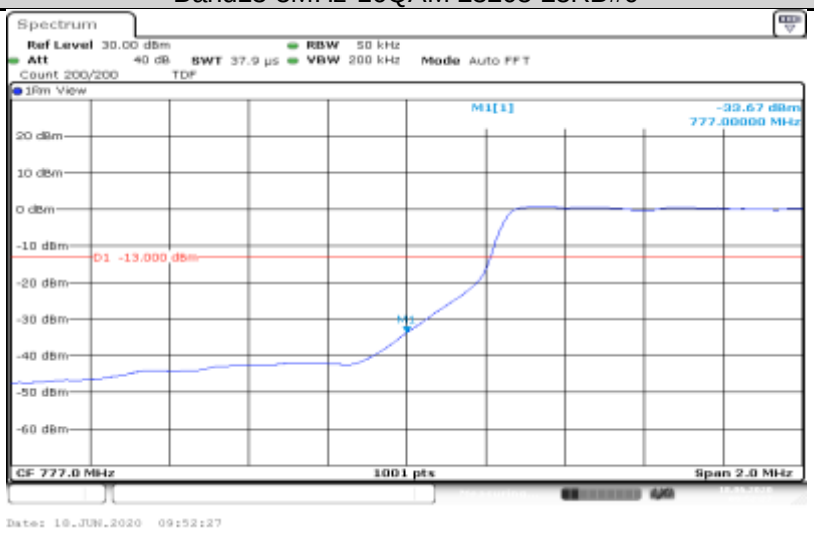
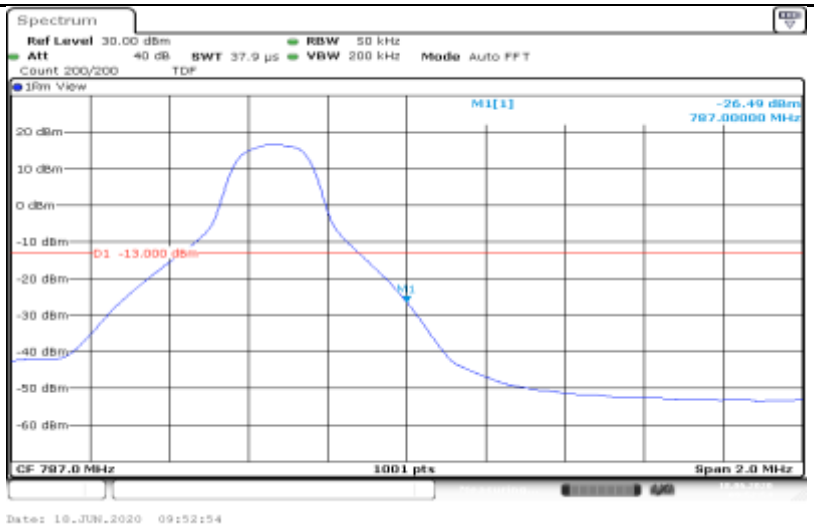
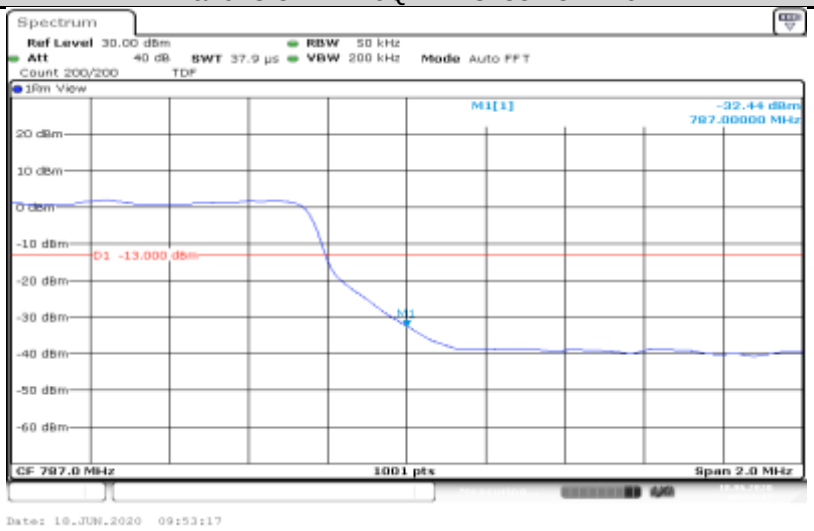


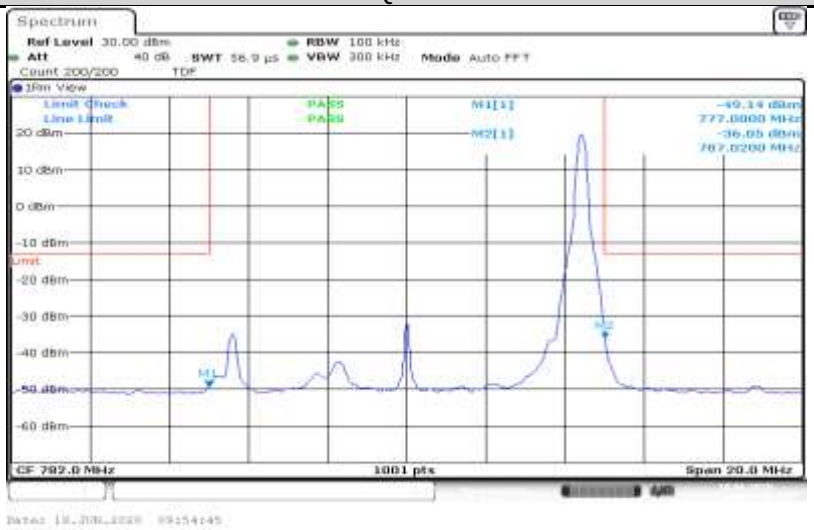
Band13-5MHz-16QAM-23255-1RB#24



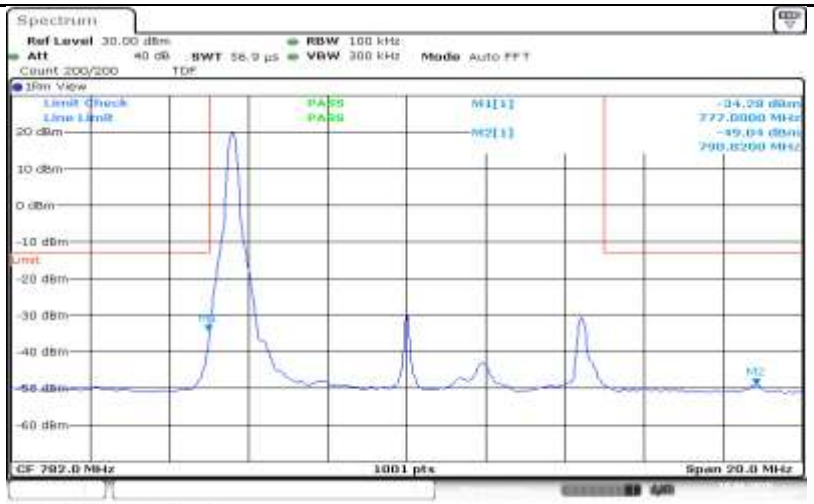
Band13-5MHz-16QAM-23255-25RB#0



Band13-10MHz-QPSK-23230-1RB#49

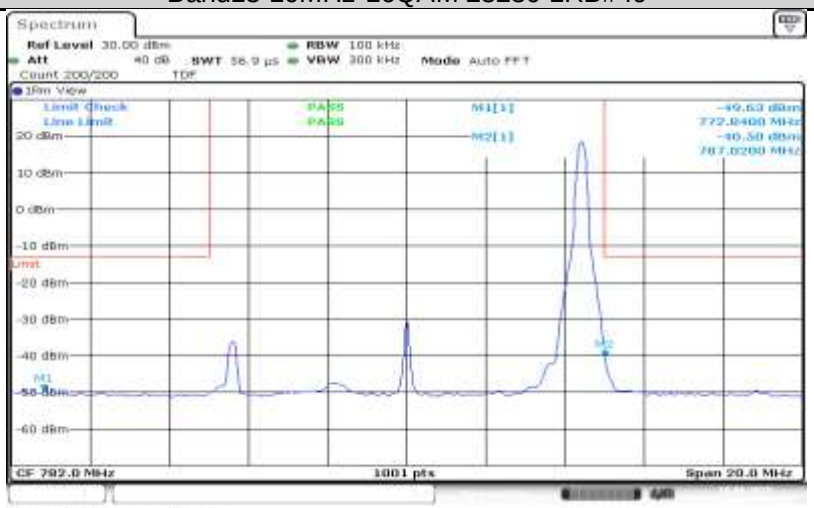


Band13-10MHz-QPSK-23230-1RB#0

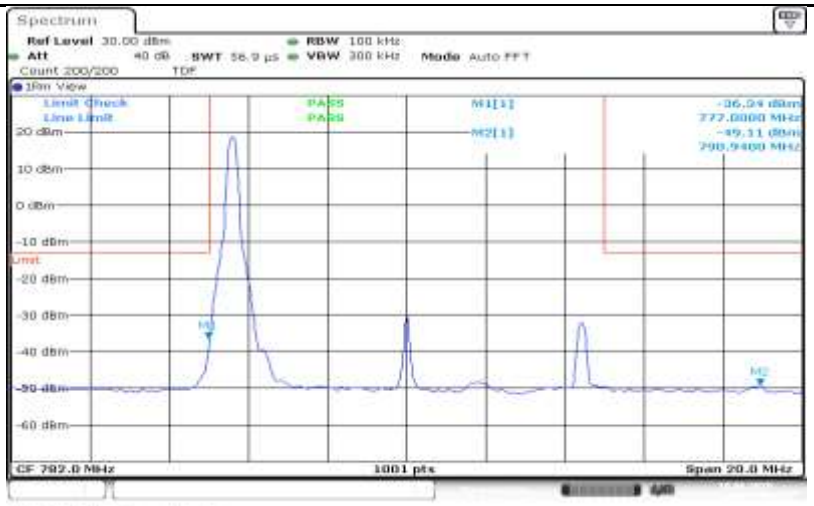


Band13-10MHz-QPSK-23230-50RB#0

Band13-10MHz-16QAM-23230-1RB#49



Band13-10MHz-16QAM-23230-1RB#0



Band13-10MHz-16QAM-23230-50RB#0

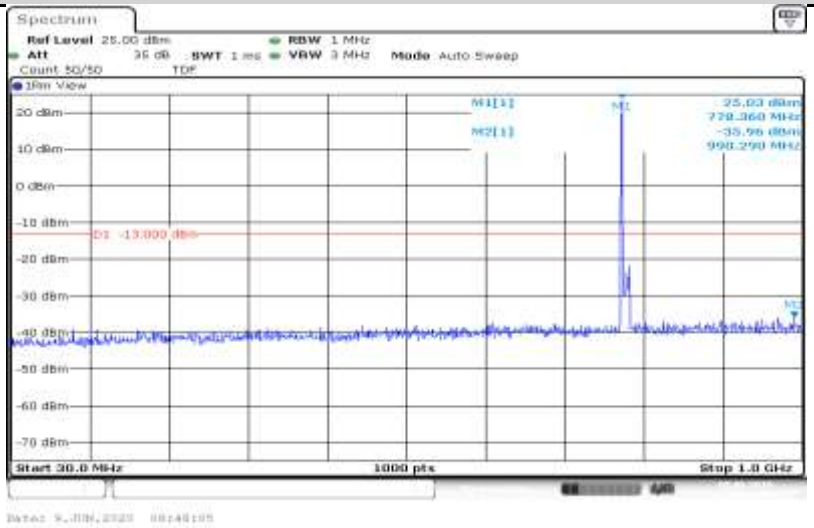
5. Conducted Spurious Emission

5.1 Test Result

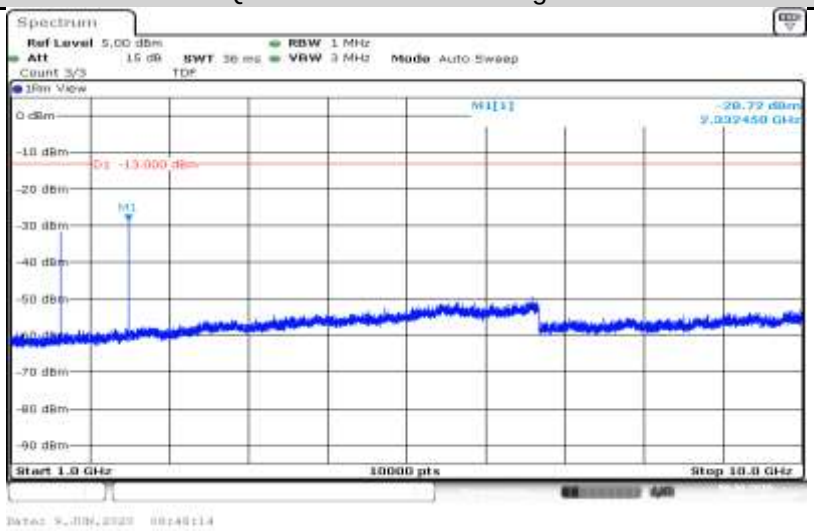
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	10MHz	QPSK	23230	1RB#0	Range1:30~1000MHz	-35.96	PASS
Band13	10MHz	QPSK	23230	1RB#0	Range2:1000~10000MHz	-28.72	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range1:30~1000MHz	-36.22	PASS
Band13	10MHz	16QAM	23230	1RB#0	Range2:1000~10000MHz	-26.9	PASS

5.2 Test Graphs

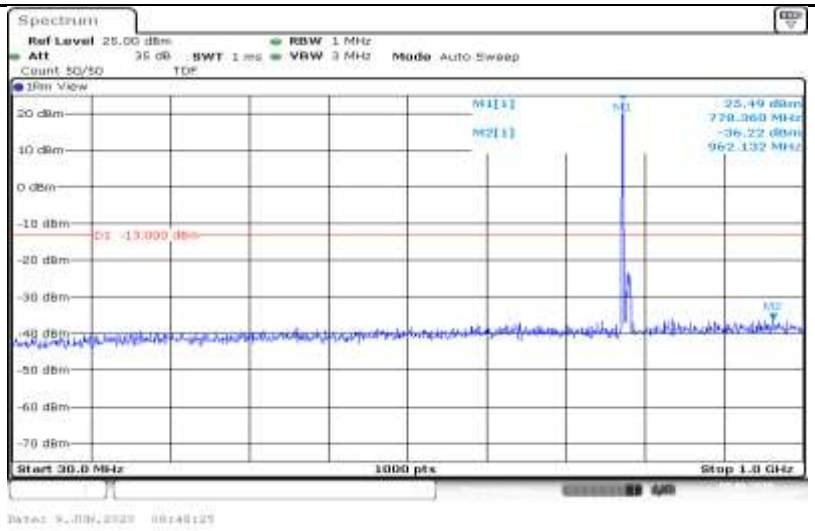
Band13-10MHz-QPSK-23230-1RB#0-Range1:30~1000MHz



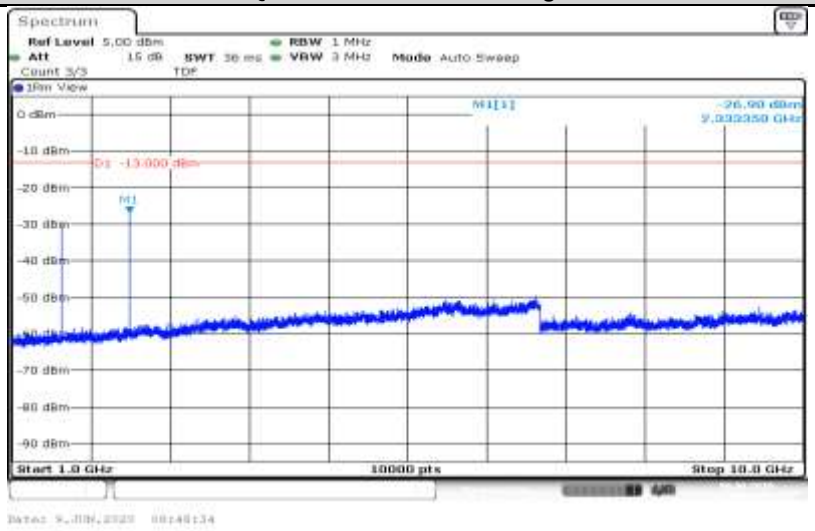
Band13-10MHz-QPSK-23230-1RB#0-Range2:1000~10000MHz



Band13-10MHz-16QAM-23230-1RB#0-Range1:30~1000MHz



Band13-10MHz-16QAM-23230-1RB#0-Range2:1000~10000MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-7.88	-0.010077	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-8.94	-0.011432	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-8.43	-0.010780	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VL	NT	-10.53	-0.013465	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VN	NT	-4.25	-0.005435	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	VH	NT	-6.85	-0.008760	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-10.14	-0.012967	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-3.09	-0.003951	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-5.97	-0.007634	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-10.16	-0.012992	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-4.88	-0.006240	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-9.50	-0.012148	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-5.71	-0.007302	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-9.63	-0.012315	±2.5	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	55	-6.19	-0.007916	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-30	-2.75	-0.003517	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	-20	-7.02	-0.008977	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	0	-2.19	-0.002801	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	10	-5.71	-0.007302	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	20	-9.93	-0.012698	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	30	-5.14	-0.006573	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	40	-8.27	-0.010575	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	50	-2.20	-0.002813	±2.5	PASS
Band13	10MHz	16QAM	23230	50RB#0	NV	55	-5.97	-0.007634	±2.5	PASS

Appendix I: Test Results of LTE Band 14 operation

Contents

1. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA 2

1.1 Test Result 2

2. PEAK-TO-AVERAGE RATIO (CCDF) 4

2.1 Test Result 4
2.2 Test Graphs 4

3. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 5

3.1 Test Result 5
3.2 Test Graphs 6

4. BAND EDGE 9

4.1 Test Result 9
4.2 Test Graphs 9

5. CONDUCTED SPURIOUS EMISSION 15

5.1 Test Result 15
5.2 Test Graphs 15

6. FREQUENCY STABILITY 17

6.1 Test Result 17

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.01	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.12	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.00	PASS
Band14	5MHz	QPSK	23305	12RB#0	21.99	PASS
Band14	5MHz	QPSK	23305	12RB#6	21.99	PASS
Band14	5MHz	QPSK	23305	12RB#13	22.04	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.06	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.02	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.05	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.97	PASS
Band14	5MHz	QPSK	23330	12RB#13	21.92	PASS
Band14	5MHz	QPSK	23330	12RB#0	22.02	PASS
Band14	5MHz	QPSK	23330	12RB#6	22.04	PASS
Band14	5MHz	QPSK	23330	25RB#0	21.95	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.99	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.08	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.92	PASS
Band14	5MHz	QPSK	23355	12RB#6	21.95	PASS
Band14	5MHz	QPSK	23355	12RB#0	21.94	PASS
Band14	5MHz	QPSK	23355	12RB#13	21.92	PASS
Band14	5MHz	QPSK	23355	25RB#0	21.91	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.22	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.26	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.14	PASS
Band14	5MHz	16QAM	23305	12RB#6	21.18	PASS
Band14	5MHz	16QAM	23305	12RB#13	21.18	PASS
Band14	5MHz	16QAM	23305	12RB#0	21.18	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.16	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.04	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.05	PASS
Band14	5MHz	16QAM	23330	1RB#24	21.96	PASS
Band14	5MHz	16QAM	23330	12RB#13	21.04	PASS

Band14	5MHz	16QAM	23330	12RB#6	21.16	PASS
Band14	5MHz	16QAM	23330	12RB#0	21.16	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.10	PASS
Band14	5MHz	16QAM	23355	1RB#0	21.98	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.09	PASS
Band14	5MHz	16QAM	23355	1RB#24	21.97	PASS
Band14	5MHz	16QAM	23355	12RB#0	21.01	PASS
Band14	5MHz	16QAM	23355	12RB#13	21.02	PASS
Band14	5MHz	16QAM	23355	12RB#6	21.01	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.00	PASS
Band14	10MHz	QPSK	23330	1RB#0	22.93	PASS
Band14	10MHz	QPSK	23330	1RB#24	22.95	PASS
Band14	10MHz	QPSK	23330	1RB#49	22.79	PASS
Band14	10MHz	QPSK	23330	25RB#25	21.91	PASS
Band14	10MHz	QPSK	23330	25RB#0	22.06	PASS
Band14	10MHz	QPSK	23330	25RB#12	22.08	PASS
Band14	10MHz	QPSK	23330	50RB#0	21.99	PASS
Band14	10MHz	16QAM	23330	1RB#49	21.99	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.06	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.14	PASS
Band14	10MHz	16QAM	23330	25RB#0	21.11	PASS
Band14	10MHz	16QAM	23330	25RB#25	21.01	PASS
Band14	10MHz	16QAM	23330	25RB#12	21.12	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.11	PASS

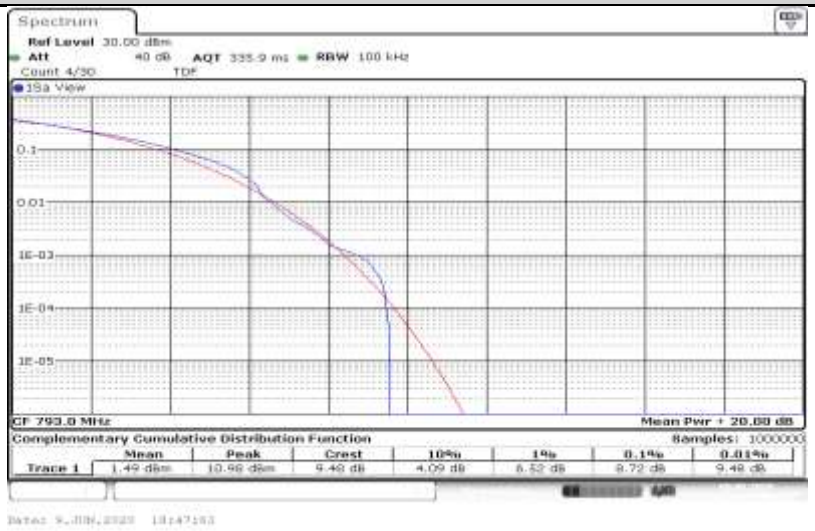
2. Peak-to-Average Ratio（CCDF）

2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	8.72	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.70	13	PASS

2.2 Test Graphs

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#0

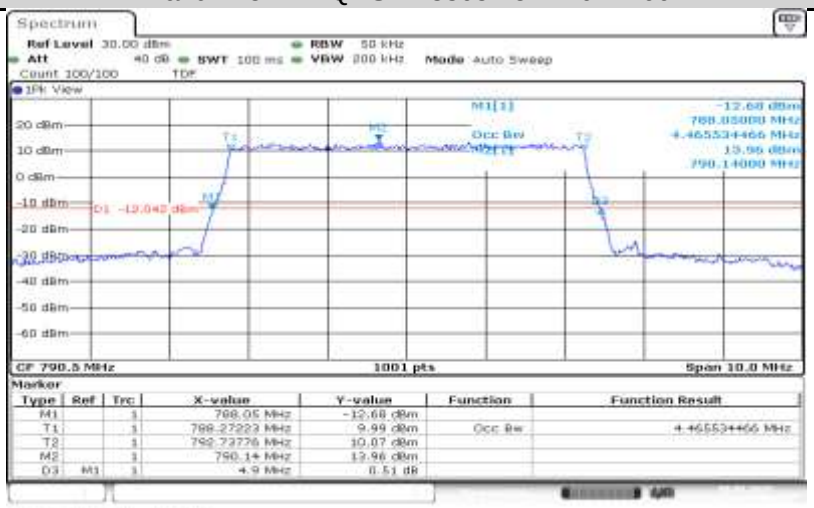
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.466	4.900	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.486	4.890	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.486	4.930	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.476	4.910	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.486	4.920	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.486	4.880	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.952	9.700	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.952	9.633	PASS

3.2 Test Graphs

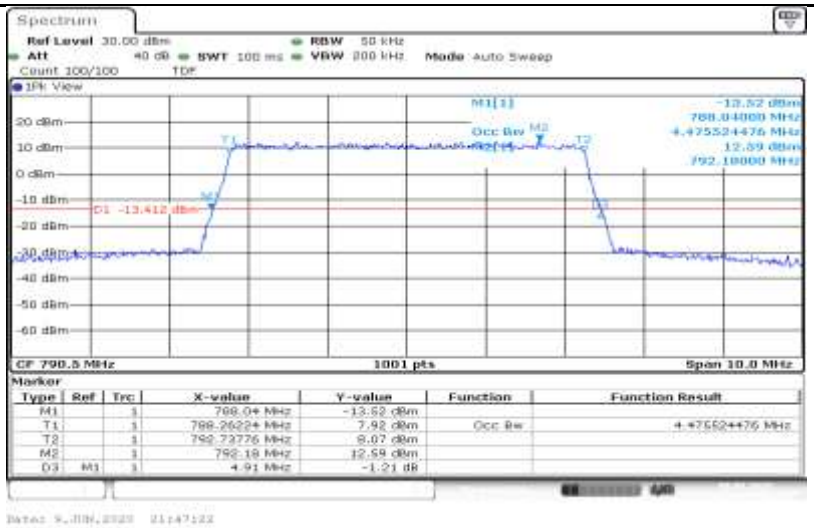
Band14-5MHz-QPSK-23305-25RB#0-4.466



Band14-5MHz-QPSK-23330-25RB#0-4.486

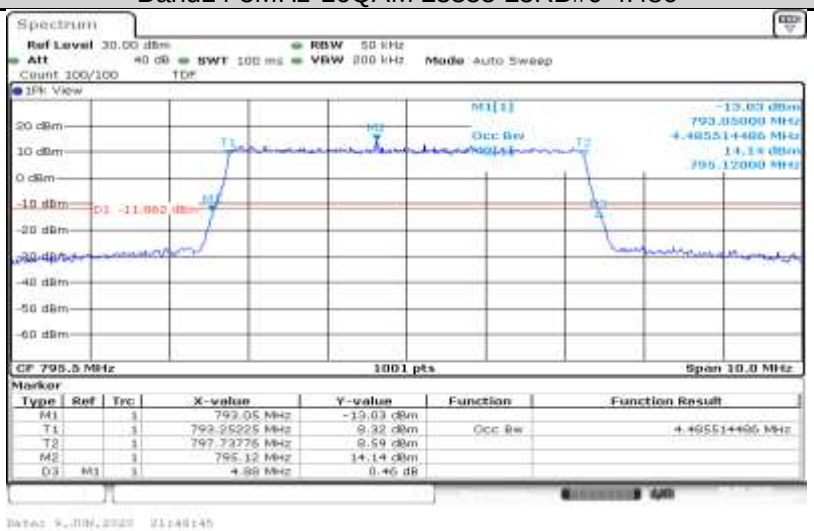
Band14-5MHz-QPSK-23355-25RB#0-4.486

Band14-5MHz-16QAM-23305-25RB#0-4.476

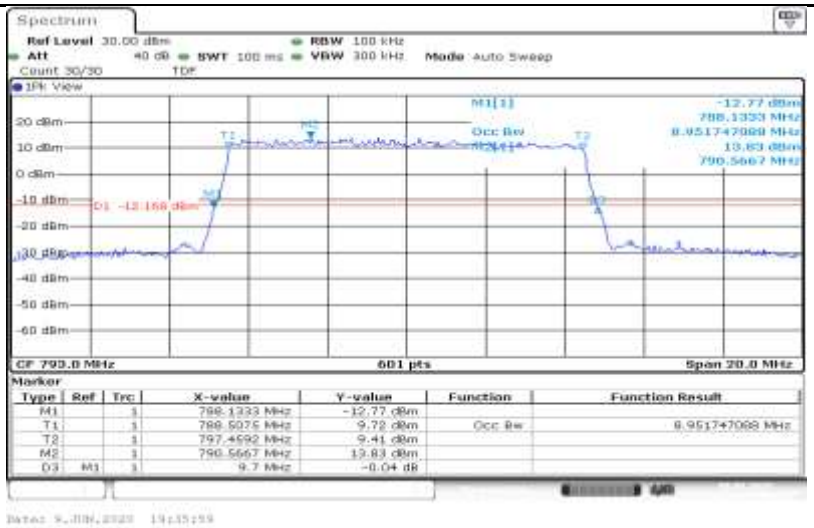


Band14-5MHz-16QAM-23330-25RB#0-4.486

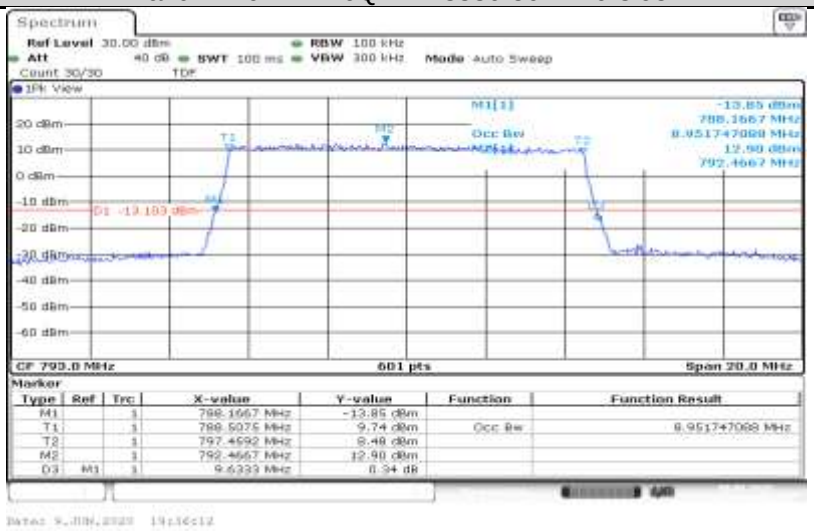
Band14-5MHz-16QAM-23355-25RB#0-4.486



Band14-10MHz-QPSK-23330-50RB#0-8.952



Band14-10MHz-16QAM-23330-50RB#0-8.952



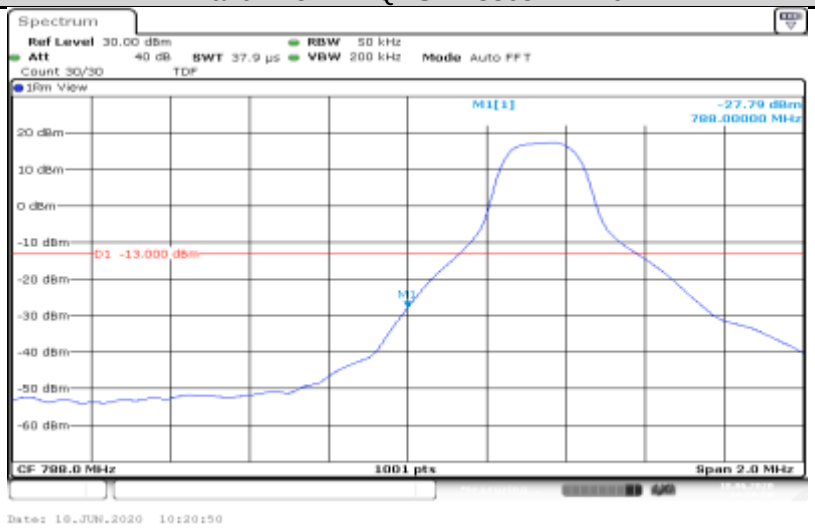
4. Band Edge

4.1 Test Result

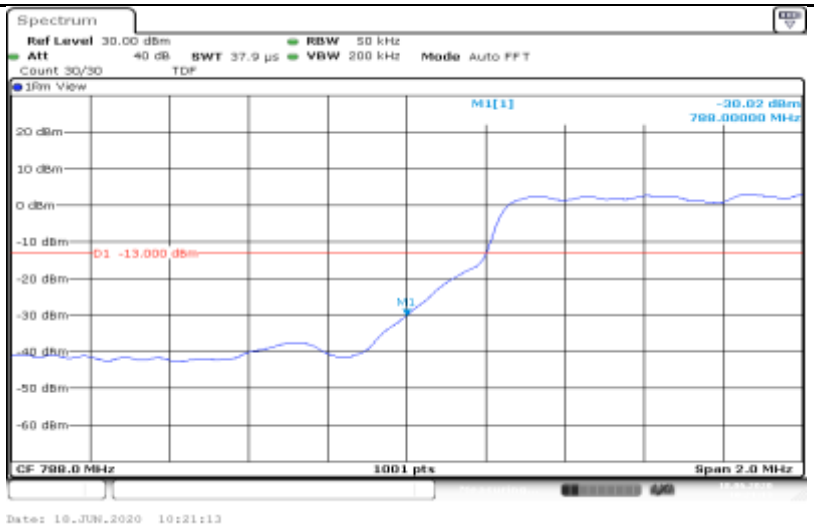
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	-27.79	PASS
Band14	5MHz	QPSK	23305	25RB#0	-30.02	PASS
Band14	5MHz	QPSK	23355	1RB#24	-25.25	PASS
Band14	5MHz	QPSK	23355	25RB#0	-29.02	PASS
Band14	5MHz	16QAM	23305	1RB#0	-25.76	PASS
Band14	5MHz	16QAM	23305	25RB#0	-33.79	PASS
Band14	5MHz	16QAM	23355	1RB#24	-28.30	PASS
Band14	5MHz	16QAM	23355	25RB#0	-31.96	PASS
Band14	10MHz	QPSK	23330	1RB#49	-47.90,-36.30	PASS
Band14	10MHz	QPSK	23330	1RB#0	-36.66,-47.88	PASS
Band14	10MHz	QPSK	23330	50RB#0	-33.68,-33.55	PASS
Band14	10MHz	16QAM	23330	1RB#49	-47.42,-40.23	PASS
Band14	10MHz	16QAM	23330	1RB#0	-38.30,-48.98	PASS
Band14	10MHz	16QAM	23330	50RB#0	-38.11,-36.90	PASS

4.2 Test Graphs

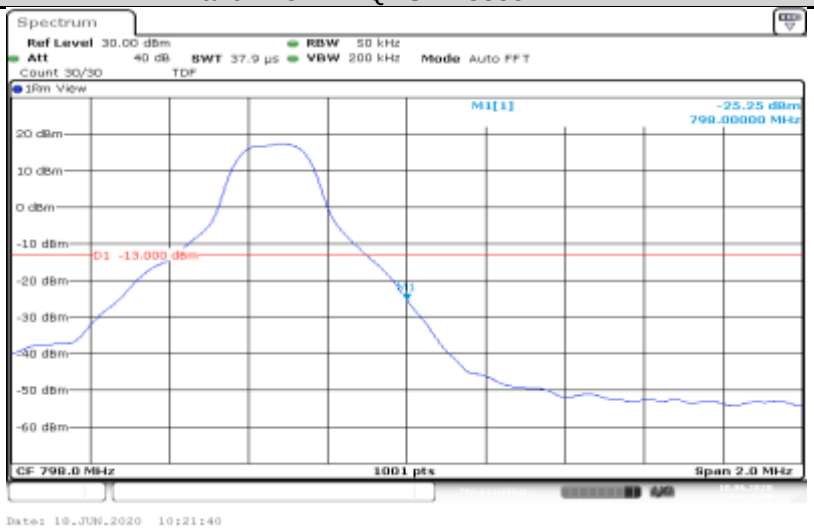
Band14-5MHz-QPSK-23305-1RB#0



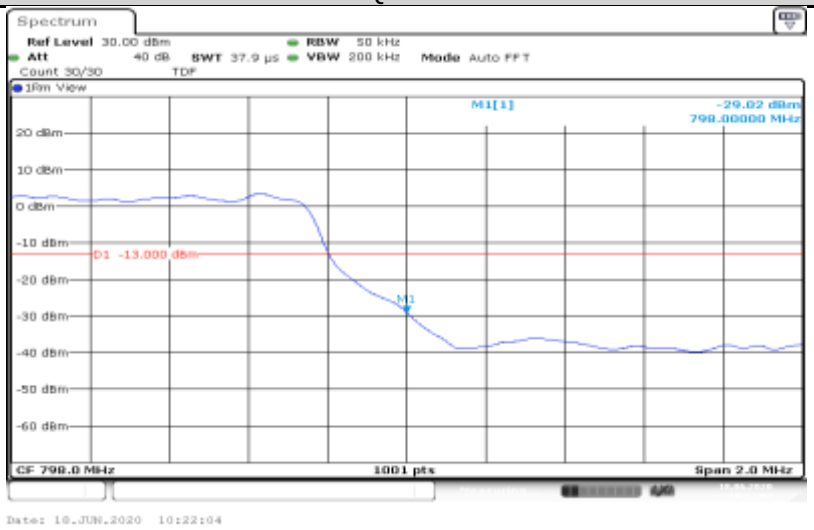
Band14-5MHz-QPSK-23305-25RB#0



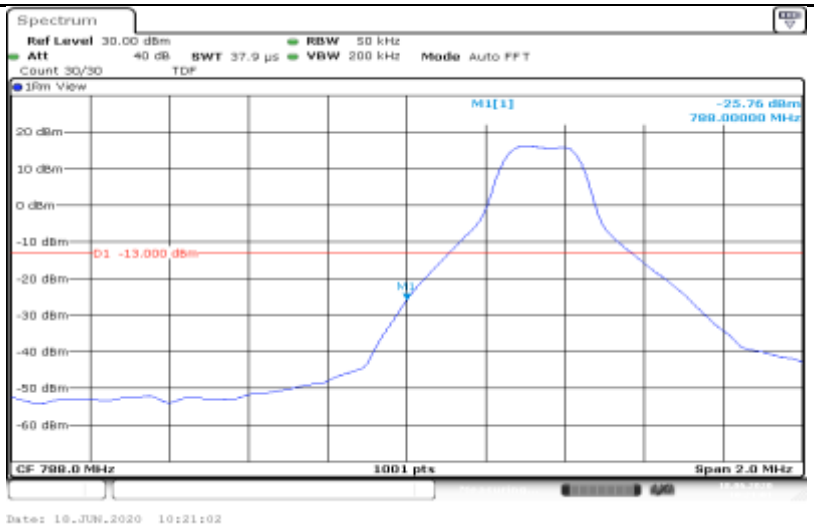
Band14-5MHz-QPSK-23355-1RB#24



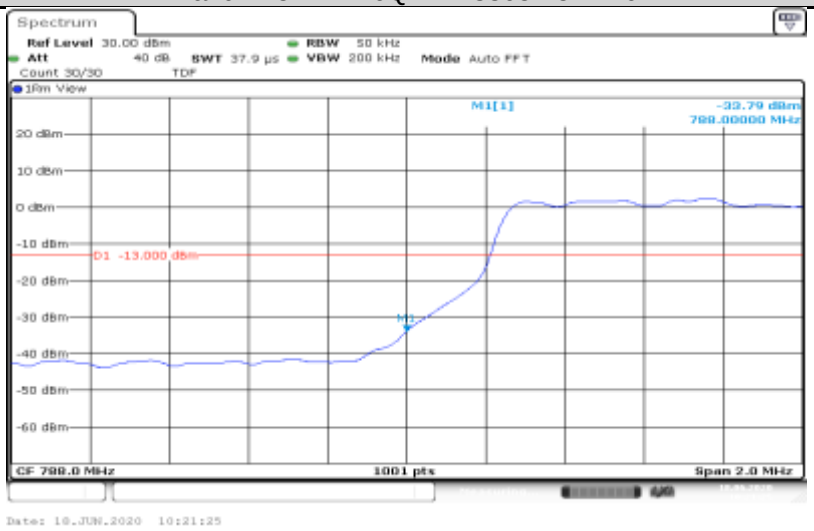
Band14-5MHz-QPSK-23355-25RB#0



Band14-5MHz-16QAM-23305-1RB#0



Band14-5MHz-16QAM-23305-25RB#0



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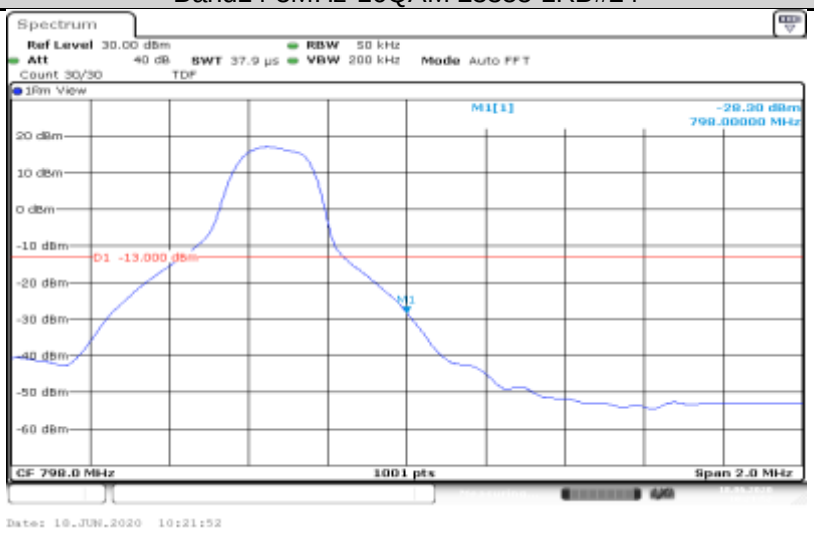

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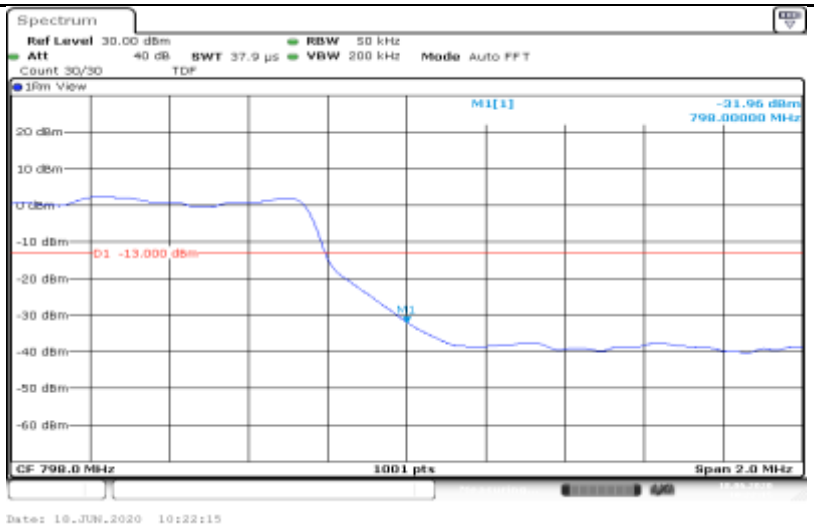
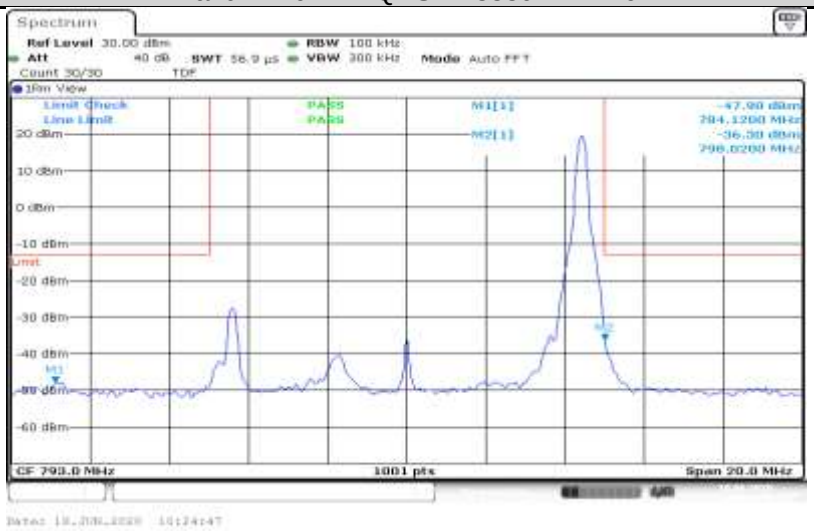


Band14-10MHz-QPSK-23330-1RB#49



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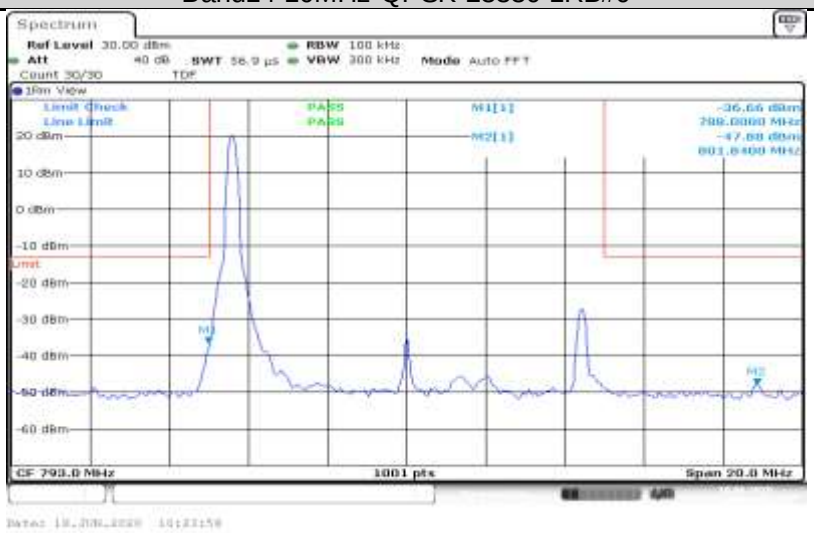
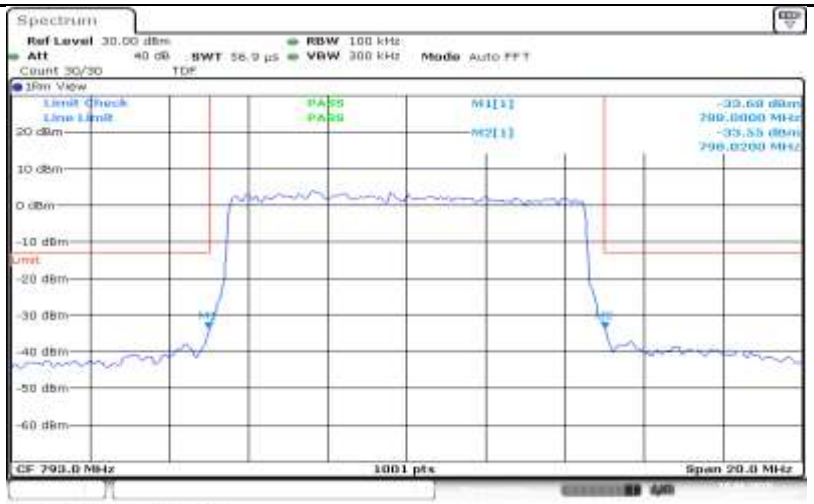
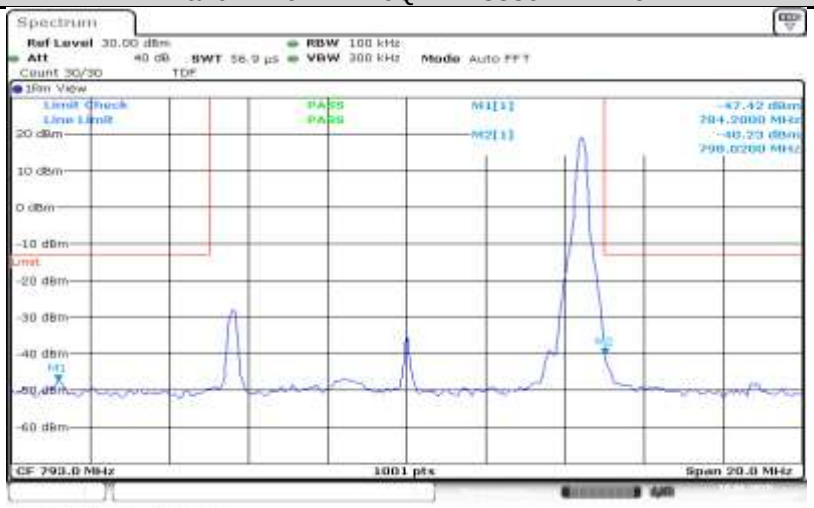


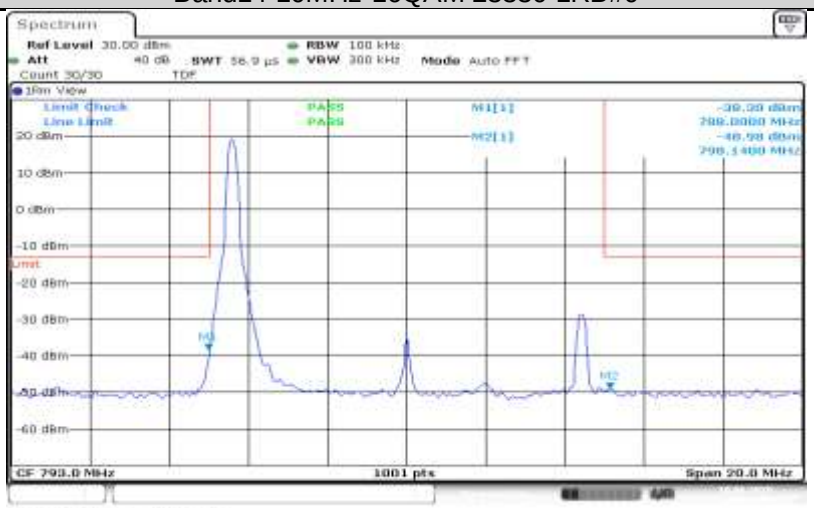
Band14-10MHz-QPSK-23330-50RB#0



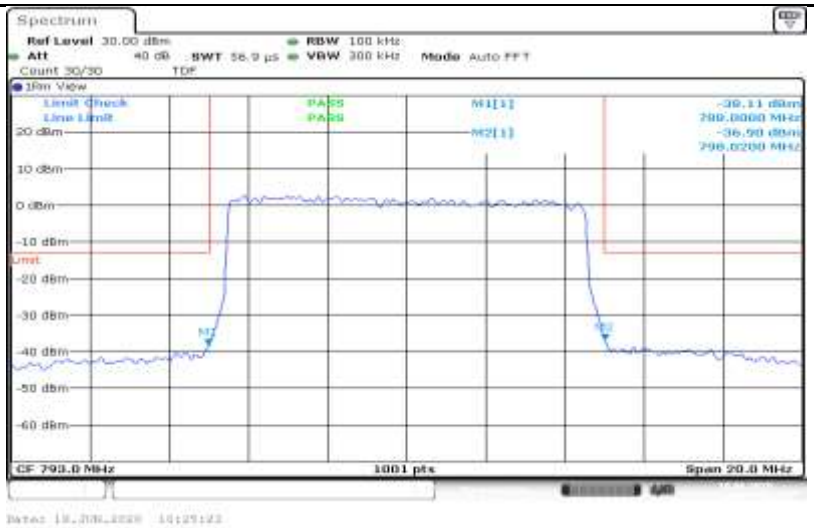
Band14-10MHz-16QAM-23330-1RB#49



Band14-10MHz-16QAM-23330-1RB#0



Band14-10MHz-16QAM-23330-50RB#0


Spectrum
Ref Level 30.00 dBm
RBW 100 kHz
Att 40 dB
SWT 56.9 µs
VBW 300 kHz
Mode Auto FFT
Count 30/30
TDF
1Rm View
Limit Check
Line Limit
PASS
PASS
M1[1]
-39.11 dBm
790.0000 MHz
M2[1]
-36.90 dBm
796.0200 MHz
20 dBm
10 dBm
0 dBm
-10 dBm
Limit
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
CF 793.0 MHz
1001 pts
Span 20.0 MHz

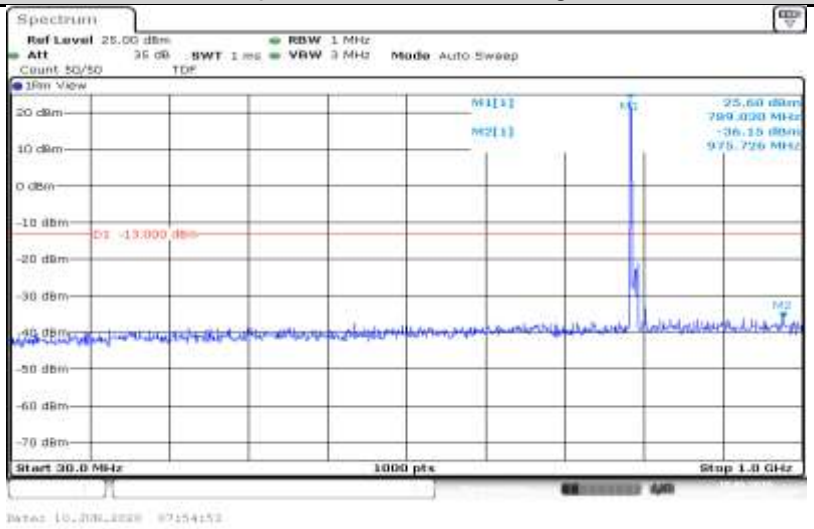
5. Conducted Spurious Emission

5.1 Test Result

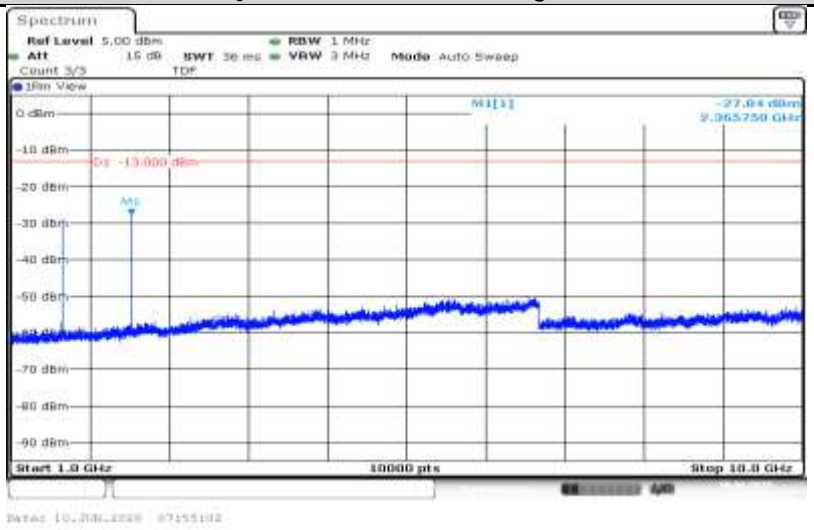
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band14	10MHz	QPSK	23330	1RB#0	Range1:30~1000MHz	-36.15	PASS
Band14	10MHz	QPSK	23330	1RB#0	Range2:1000~10000MHz	-27.84	PASS
Band14	10MHz	16QAM	23330	1RB#0	Range1:30~1000MHz	-36.22	PASS
Band14	10MHz	16QAM	23330	1RB#0	Range2:1000~10000MHz	-26.61	PASS

5.2 Test Graphs

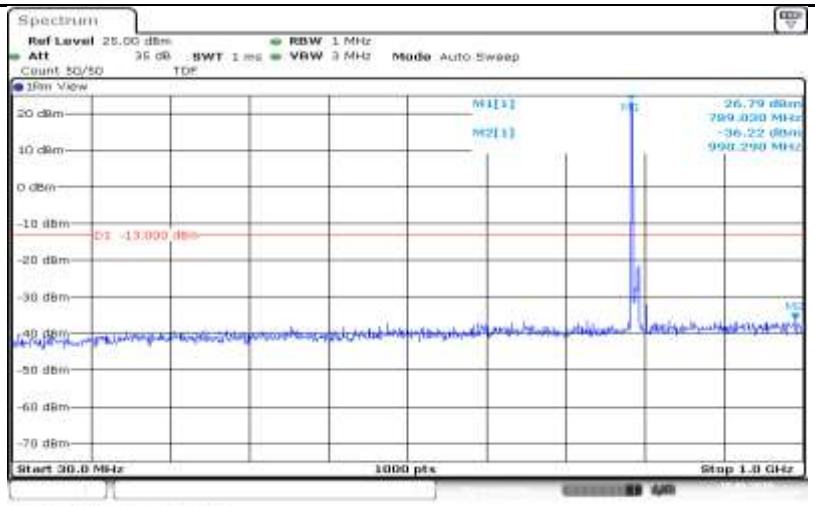
Band14-10MHz-QPSK-23330-1RB#0-Range1:30~1000MHz



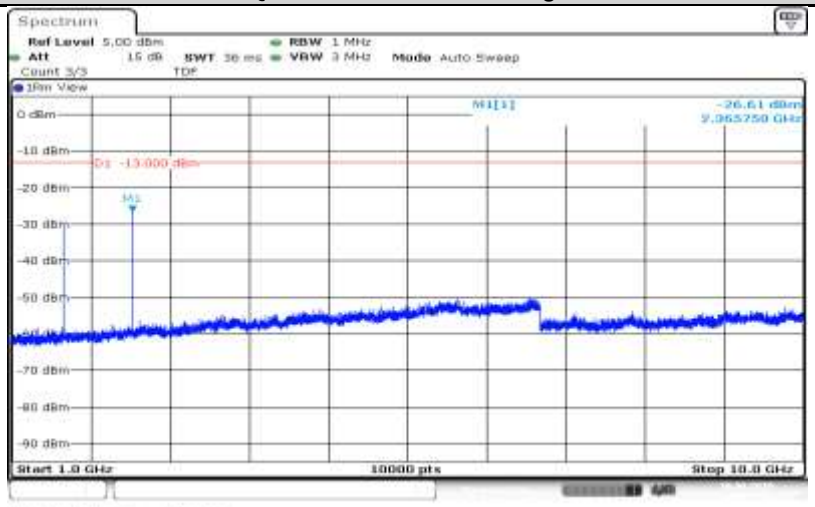
Band14-10MHz-QPSK-23330-1RB#0-Range2:1000~10000MHz



Band14-10MHz-16QAM-23330-1RB#0-Range1:30~1000MHz



Band14-10MHz-16QAM-23330-1RB#0-Range2:1000~10000MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-5.45	-0.006873	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-7.60	-0.009584	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-10.61	-0.013380	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VL	NT	-6.21	-0.007831	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VN	NT	-9.48	-0.011955	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	VH	NT	-3.22	-0.004061	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-8.01	-0.010101	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-7.57	-0.009546	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-6.85	-0.008638	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-9.23	-0.011639	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-9.33	-0.011765	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-5.87	-0.007402	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-6.94	-0.008752	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-9.16	-0.011551	±2.5	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	55	-6.94	-0.008752	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-30	-5.06	-0.006381	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	-20	-8.47	-0.010681	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	0	-4.69	-0.005914	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	10	-7.93	-0.010000	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	20	-3.23	-0.004073	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	30	-5.66	-0.007137	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	40	-3.42	-0.004313	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	50	-7.91	-0.009975	±2.5	PASS
Band14	10MHz	16QAM	23330	50RB#0	NV	55	-7.04	-0.008878	±2.5	PASS

Appendix J: Test Results of LTE Band 17 operation

Contents

1. EFFECTIVE (ISOTROPIC) RADIATED POWER OUTPUT DATA 2
1.1 Test Result 2
2. PEAK-TO-AVERAGE RATIO (CCDF) 5
2.1 Test Result 5
2.2 Test Graphs 6
3. 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 8
3.1 Test Result 8
3.2 Test Graphs 9
4. BAND EDGE 13
4.1 Test Result 13
4.2 Test Graphs 14
5. CONDUCTED SPURIOUS EMISSION 20
5.1 Test Result 20
5.2 Test Graphs 21
6. FREQUENCY STABILITY 25
6.1 Test Result 25

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#12	22.92	PASS
Band17	5MHz	QPSK	23755	1RB#0	22.80	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.85	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.90	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.90	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.82	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.97	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.83	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.73	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.75	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.81	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.81	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.70	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.71	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.79	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.61	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.64	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.64	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.64	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.59	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.88	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.93	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.88	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.99	PASS
Band17	5MHz	16QAM	23755	12RB#0	21.00	PASS
Band17	5MHz	16QAM	23755	12RB#6	21.00	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.07	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.01	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.87	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.04	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.94	PASS

Band17	5MHz	16QAM	23790	12RB#6	20.96	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.85	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.84	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.60	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.68	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.81	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.74	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.78	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.72	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.74	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.75	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.67	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.78	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.95	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.95	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.75	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.85	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.66	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.78	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.86	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.89	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.68	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.86	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.62	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.78	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.69	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.80	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.68	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.79	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.76	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.92	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.91	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.79	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.80	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.04	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.05	PASS

Band17	10MHz	16QAM	23780	50RB#0	20.98	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.86	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.75	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.57	PASS
Band17	10MHz	16QAM	23790	25RB#0	21.03	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.84	PASS
Band17	10MHz	16QAM	23790	25RB#12	21.01	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.90	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.61	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.53	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.49	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.99	PASS
Band17	10MHz	16QAM	23800	25RB#12	21.01	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.78	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.90	PASS

2. Peak-to-Average Ratio (CCDF)

2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	7.80	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.09	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.93	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	7.80	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.09	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.93	13	PASS

2.2 Test Graphs

Band17-10MHz-QPSK-23780-50RB#0

Band17-10MHz-QPSK-23790-50RB#0

Band17-10MHz-QPSK-23800-50RB#0

Band17-10MHz-16QAM-23780-50RB#0

Band17-10MHz-16QAM-23790-50RB#0

Band17-10MHz-16QAM-23800-50RB#0

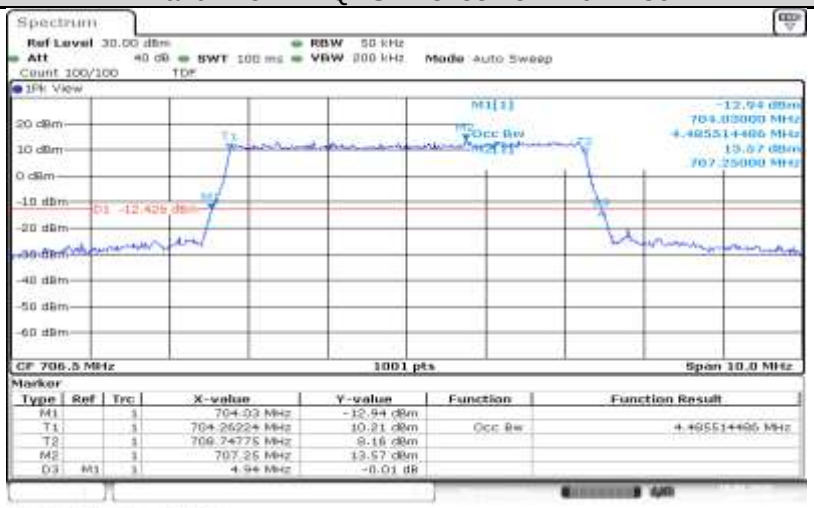
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.486	4.940	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.466	4.910	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.900	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.476	4.860	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.476	4.920	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.496	4.930	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.952	9.767	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.918	9.700	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.918	9.700	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.952	9.633	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.918	9.600	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.918	9.700	PASS

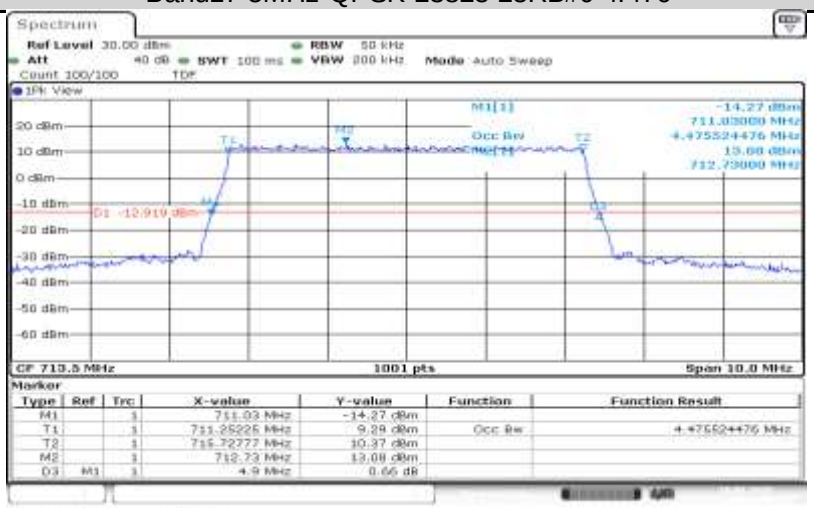
3.2 Test Graphs

Band17-5MHz-QPSK-23755-25RB#0-4.486

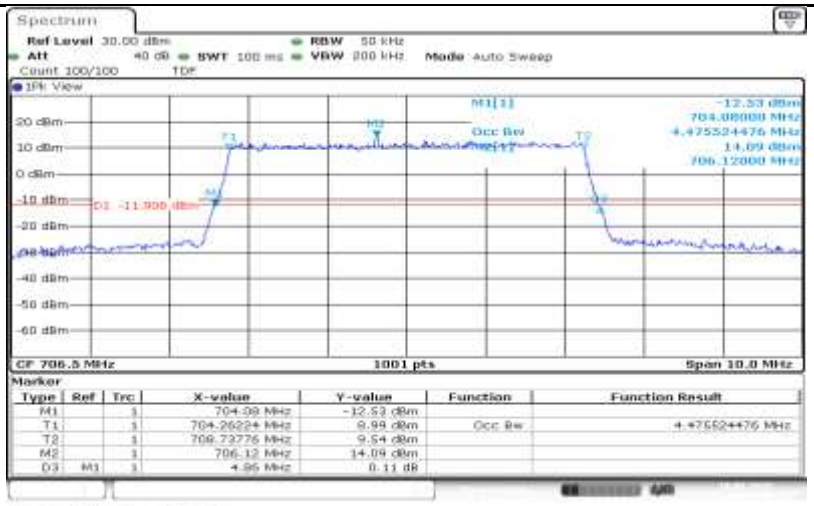


Band17-5MHz-QPSK-23790-25RB#0-4.466

Band17-5MHz-QPSK-23825-25RB#0-4.476

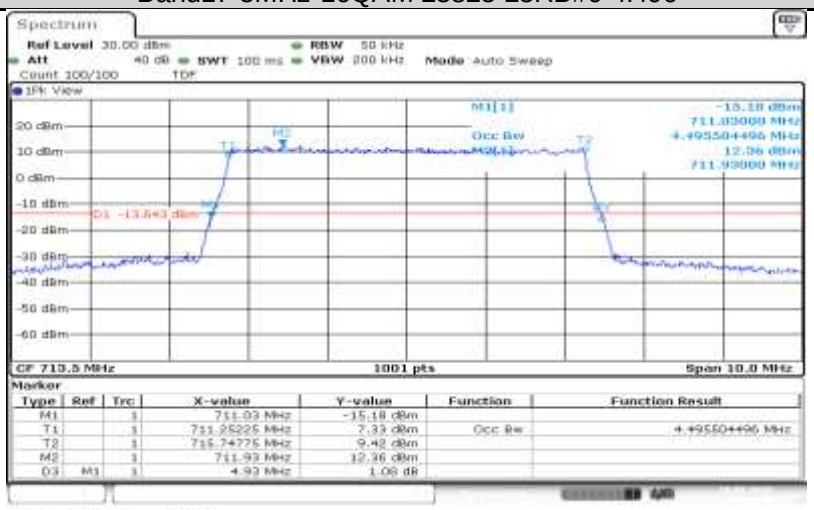


Band17-5MHz-16QAM-23755-25RB#0-4.476

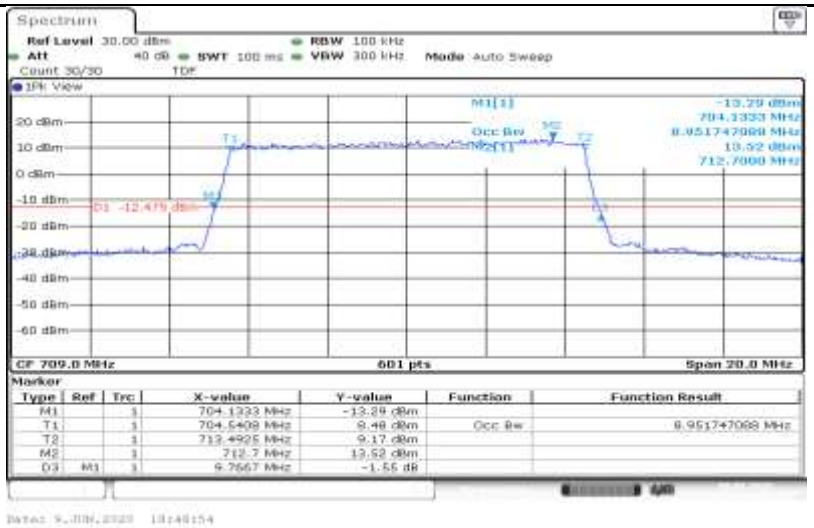


Band17-5MHz-16QAM-23790-25RB#0-4.476

Band17-5MHz-16QAM-23825-25RB#0-4.496



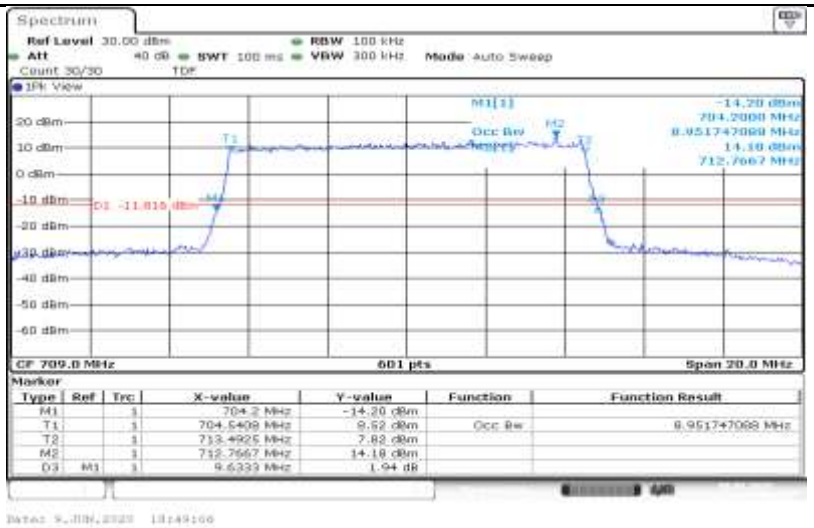
Band17-10MHz-QPSK-23780-50RB#0-8.952



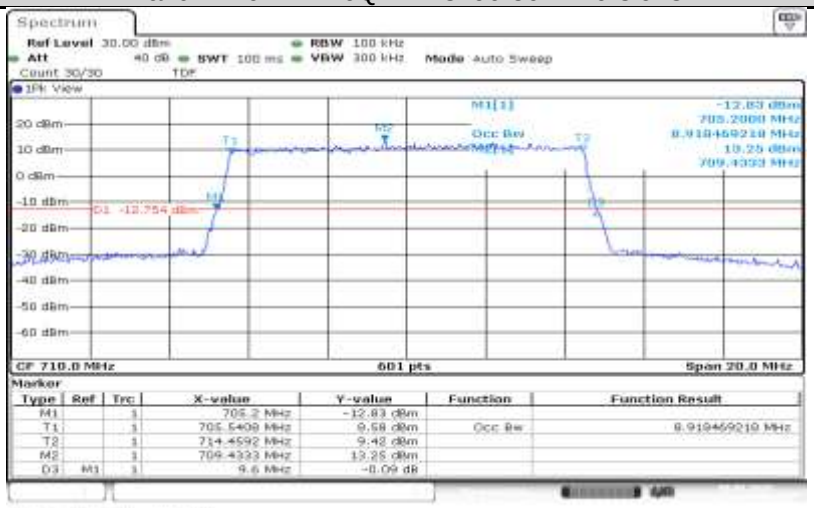
Band17-10MHz-QPSK-23790-50RB#0-8.918

Band17-10MHz-QPSK-23800-50RB#0-8.918

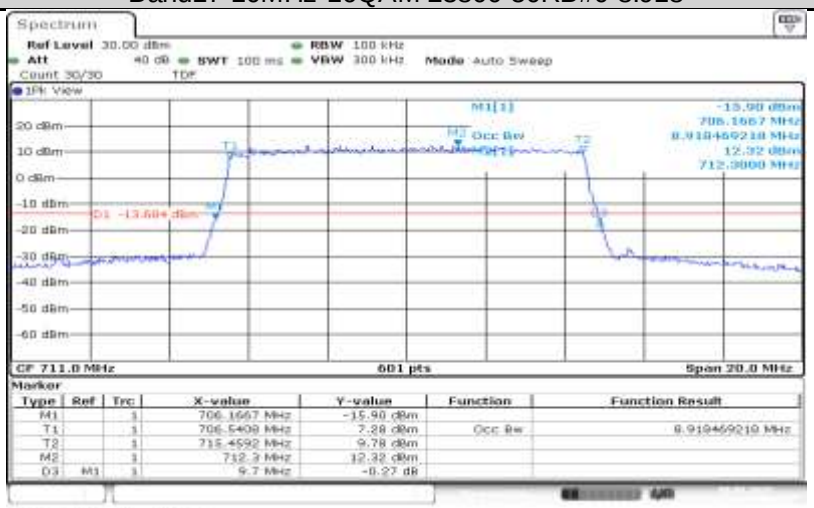
Band17-10MHz-16QAM-23780-50RB#0-8.952



Band17-10MHz-16QAM-23790-50RB#0-8.918



Band17-10MHz-16QAM-23800-50RB#0-8.918



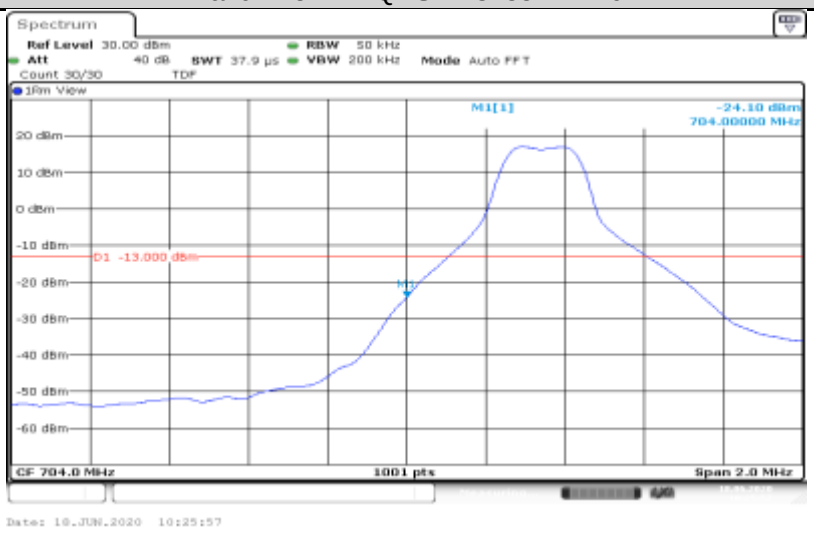
4. Band Edge

4.1 Test Result

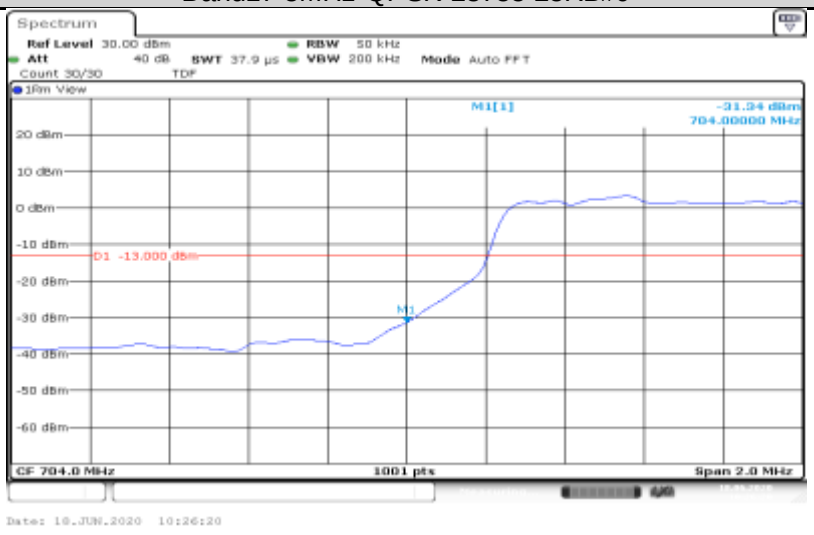
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	-24.10	PASS
Band17	5MHz	QPSK	23755	25RB#0	-31.34	PASS
Band17	5MHz	QPSK	23825	1RB#24	-22.85	PASS
Band17	5MHz	QPSK	23825	25RB#0	-30.15	PASS
Band17	5MHz	16QAM	23755	1RB#0	-26.98	PASS
Band17	5MHz	16QAM	23755	25RB#0	-34.25	PASS
Band17	5MHz	16QAM	23825	1RB#24	-26.86	PASS
Band17	5MHz	16QAM	23825	25RB#0	-34.18	PASS
Band17	10MHz	QPSK	23780	1RB#0	-37.48	PASS
Band17	10MHz	QPSK	23780	50RB#0	-33.25	PASS
Band17	10MHz	QPSK	23800	1RB#49	-36.33	PASS
Band17	10MHz	QPSK	23800	50RB#0	-34.63	PASS
Band17	10MHz	16QAM	23780	1RB#0	-36.46	PASS
Band17	10MHz	16QAM	23780	50RB#0	-36.06	PASS
Band17	10MHz	16QAM	23800	1RB#49	-35.93	PASS
Band17	10MHz	16QAM	23800	50RB#0	-38.15	PASS

4.2 Test Graphs

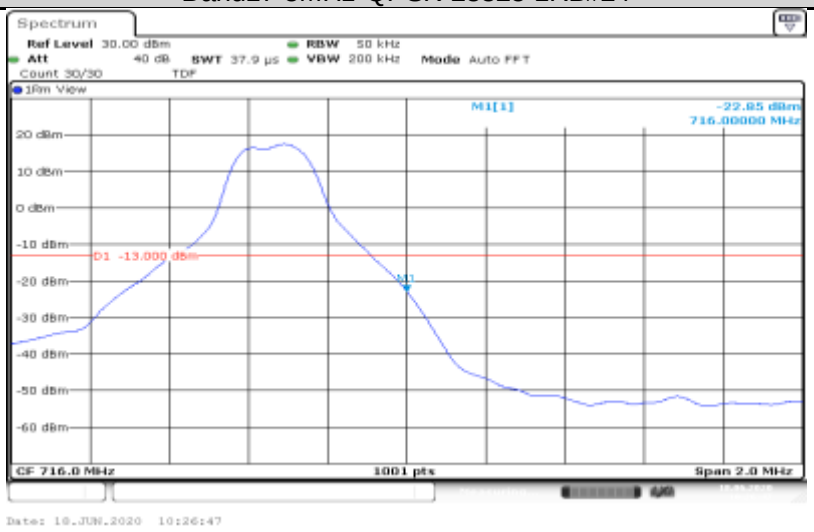
Band17-5MHz-QPSK-23755-1RB#0



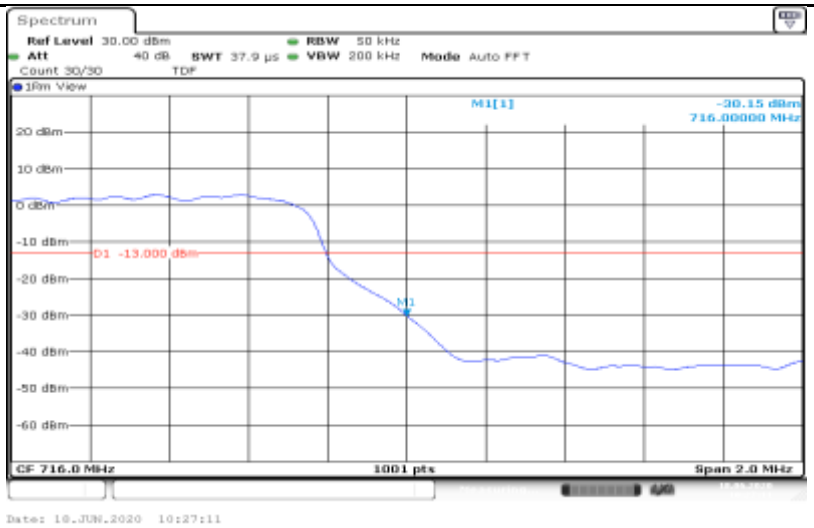
Band17-5MHz-QPSK-23755-25RB#0



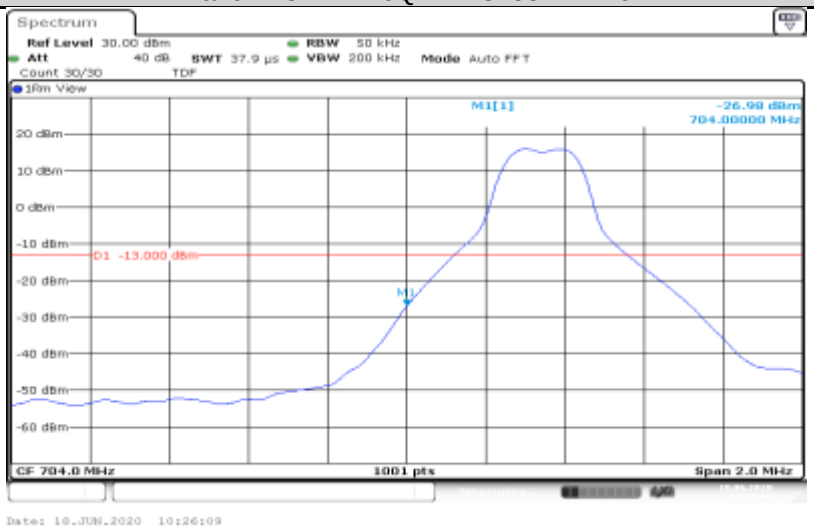
Band17-5MHz-QPSK-23825-1RB#24



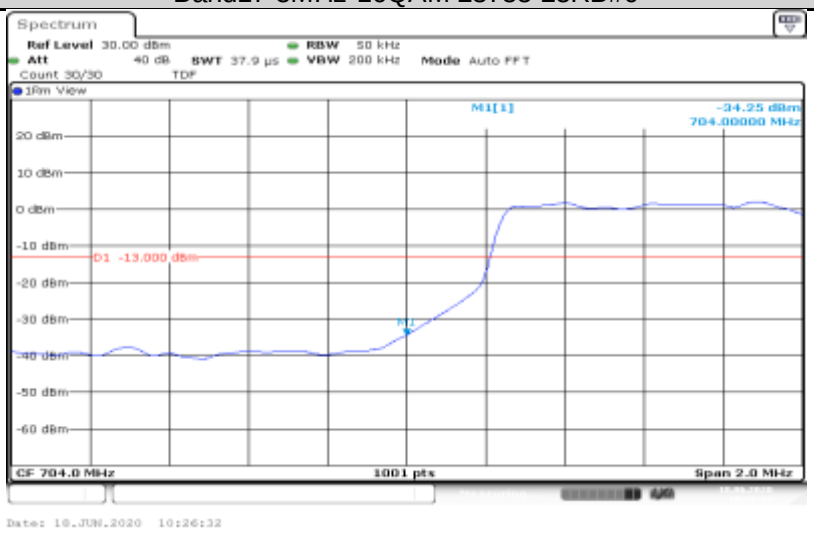
Band17-5MHz-QPSK-23825-25RB#0



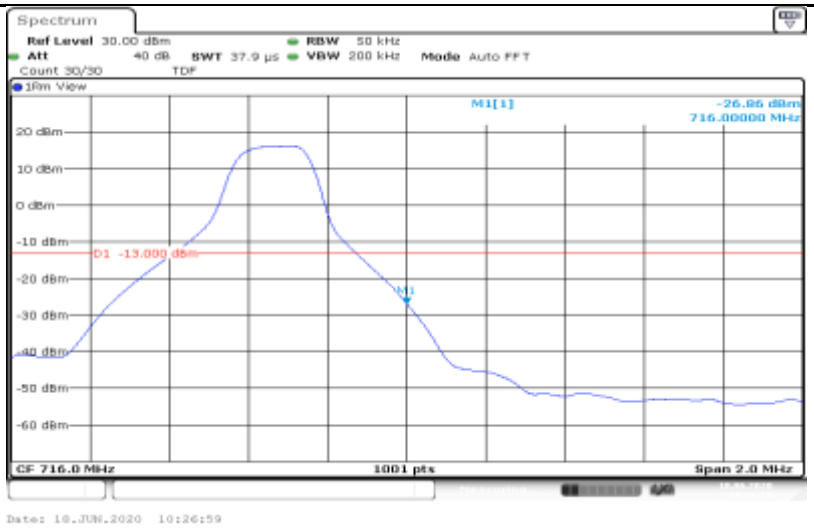
Band17-5MHz-16QAM-23755-1RB#0



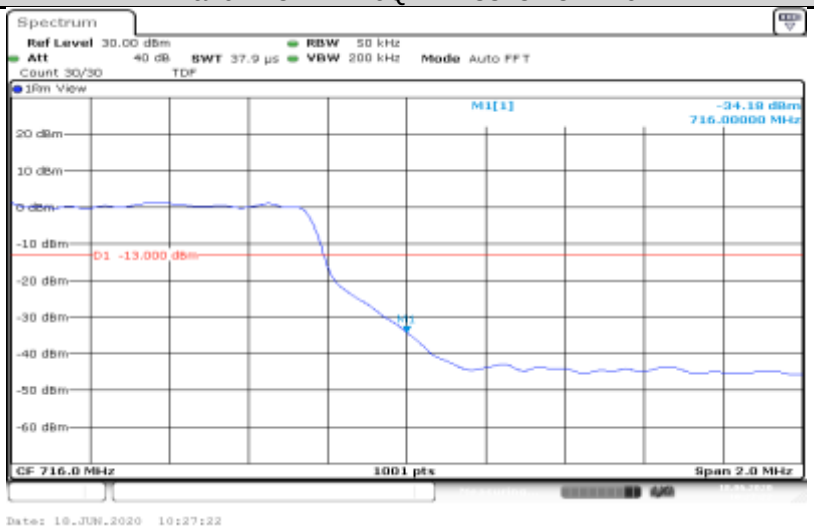
Band17-5MHz-16QAM-23755-25RB#0



Band17-5MHz-16QAM-23825-1RB#24



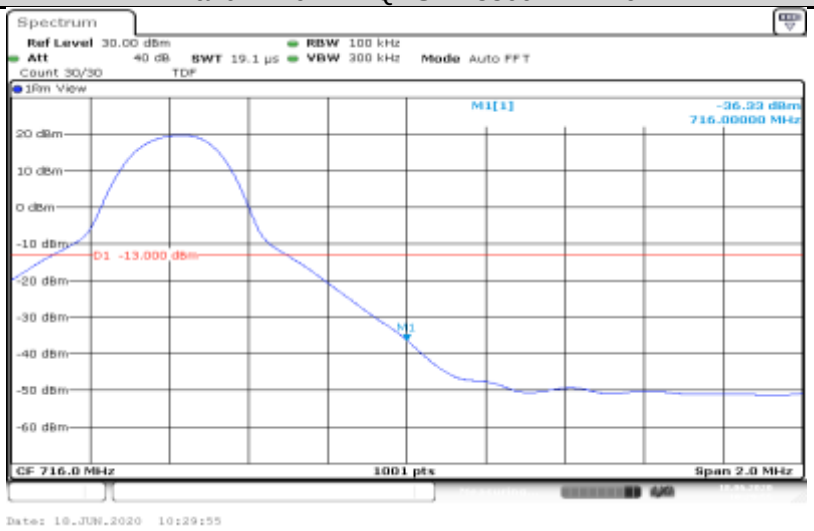
Band17-5MHz-16QAM-23825-25RB#0



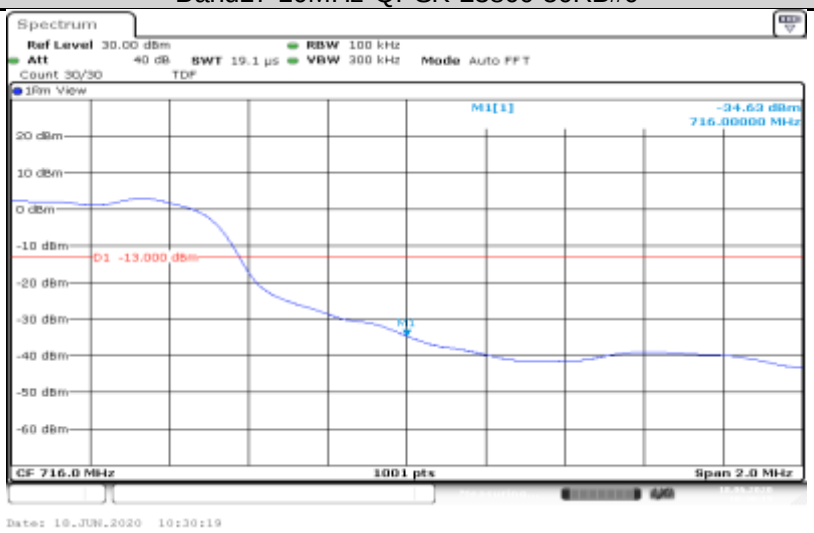
Band17-10MHz-QPSK-23780-1RB#0

Band17-10MHz-QPSK-23780-50RB#0

Band17-10MHz-QPSK-23800-1RB#49

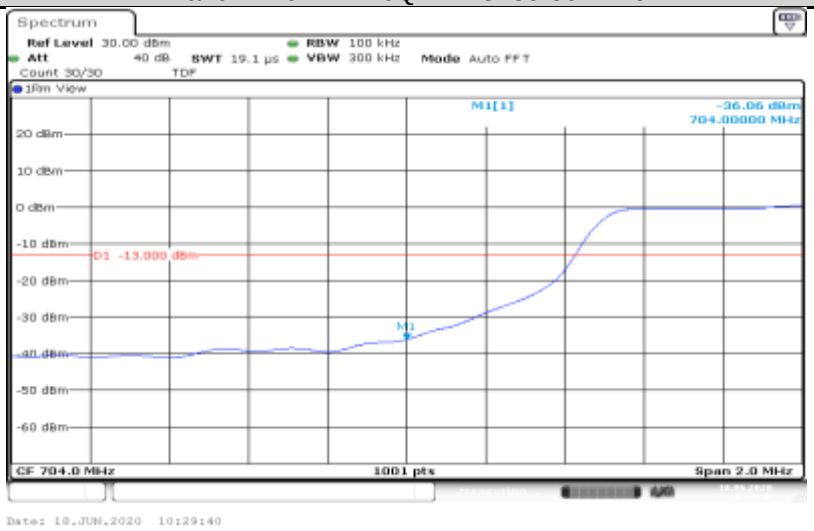


Band17-10MHz-QPSK-23800-50RB#0

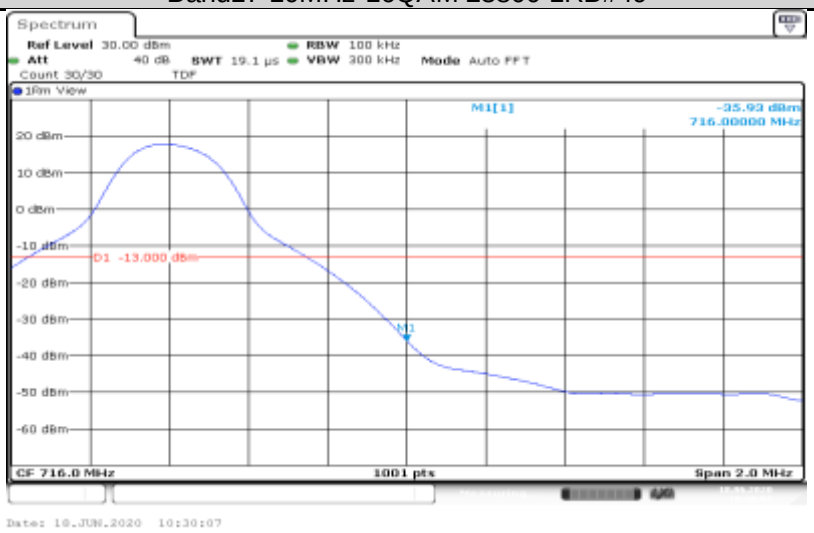


Band17-10MHz-16QAM-23780-1RB#0

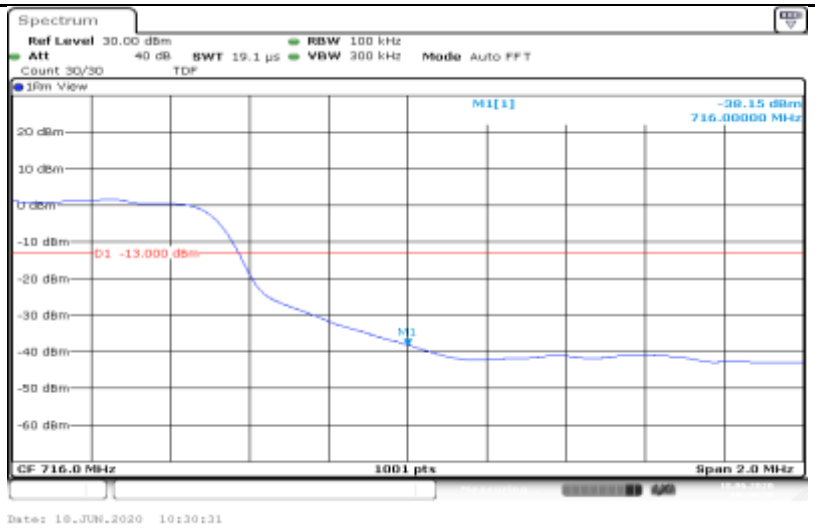
Band17-10MHz-16QAM-23780-50RB#0



Band17-10MHz-16QAM-23800-1RB#49



Band17-10MHz-16QAM-23800-50RB#0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RBW 100 kHz
Att 40 dB
SWT 19.1 µs
VBW 300 kHz
Mode Auto FFT
Count 30/30
TDF
1Rm View
M1[1]
-38.15 dBm
716.00000 MHz
20 dBm
10 dBm
0 dBm
-10 dBm
D1 -13.000 dBm
-20 dBm
-30 dBm
M1
-40 dBm
-50 dBm
-60 dBm
CF 716.0 MHz
1001 pts
Span 2.0 MHz
Date: 10.JUN.2020 10:30:31

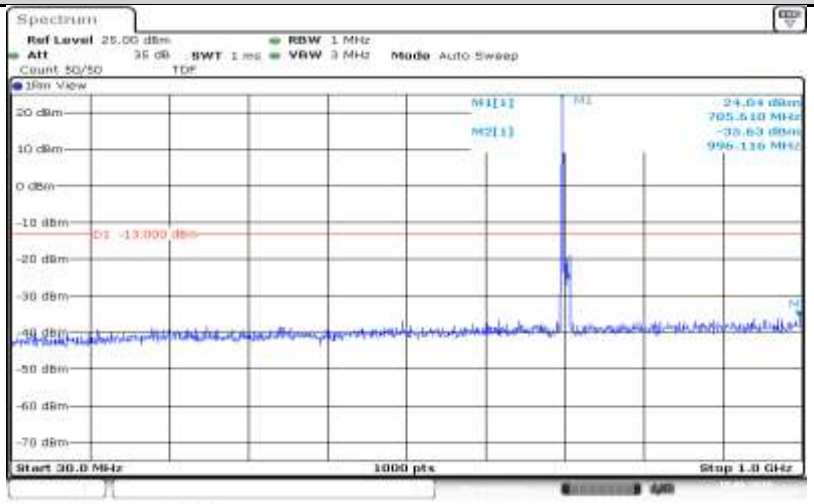
5. Conducted Spurious Emission

5.1 Test Result

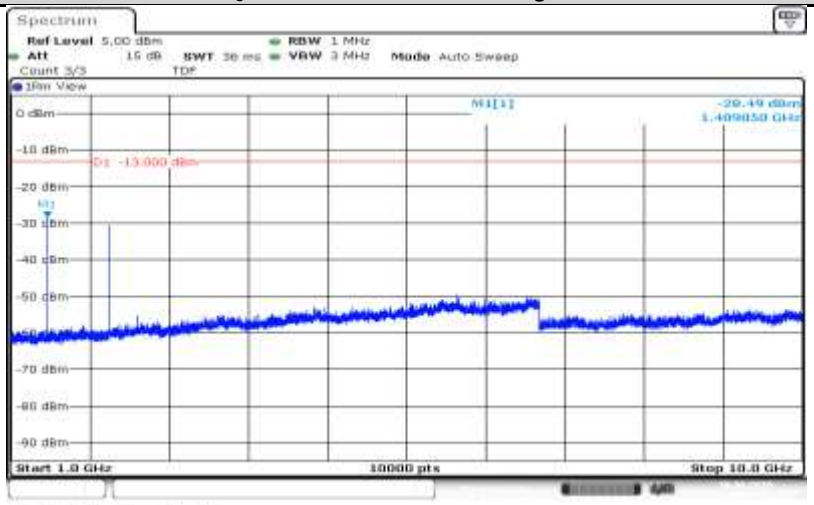
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band17	10MHz	QPSK	23780	1RB#0	Range1:30~1000MHz	-35.63	PASS
Band17	10MHz	QPSK	23780	1RB#0	Range2:1000~10000MHz	-28.49	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range1:30~1000MHz	-36.28	PASS
Band17	10MHz	QPSK	23790	1RB#0	Range2:1000~10000MHz	-29	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range1:30~1000MHz	-34.99	PASS
Band17	10MHz	QPSK	23800	1RB#0	Range2:1000~10000MHz	-28.53	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range1:30~1000MHz	-35.33	PASS
Band17	10MHz	16QAM	23780	1RB#0	Range2:1000~10000MHz	-26.08	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range1:30~1000MHz	-34.91	PASS
Band17	10MHz	16QAM	23790	1RB#0	Range2:1000~10000MHz	-28.11	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range1:30~1000MHz	-35.8	PASS
Band17	10MHz	16QAM	23800	1RB#0	Range2:1000~10000MHz	-26.44	PASS

5.2 Test Graphs

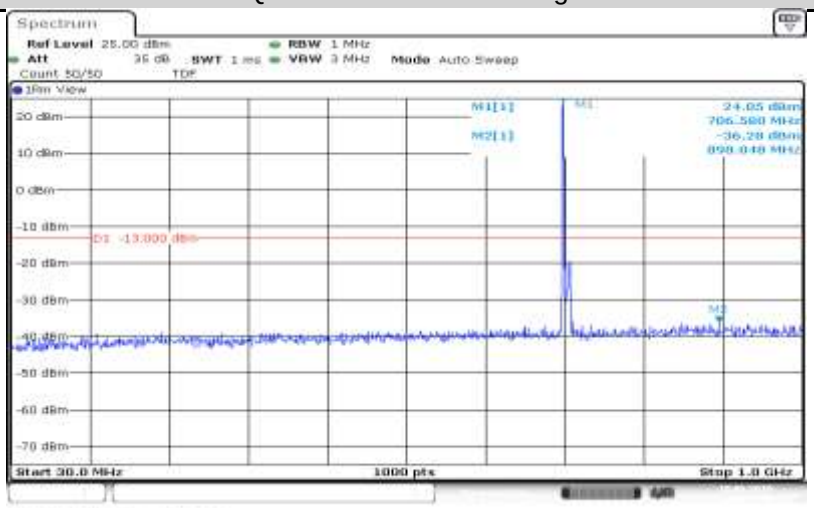
Band17-10MHz-QPSK-23780-1RB#0-Range1:30~1000MHz



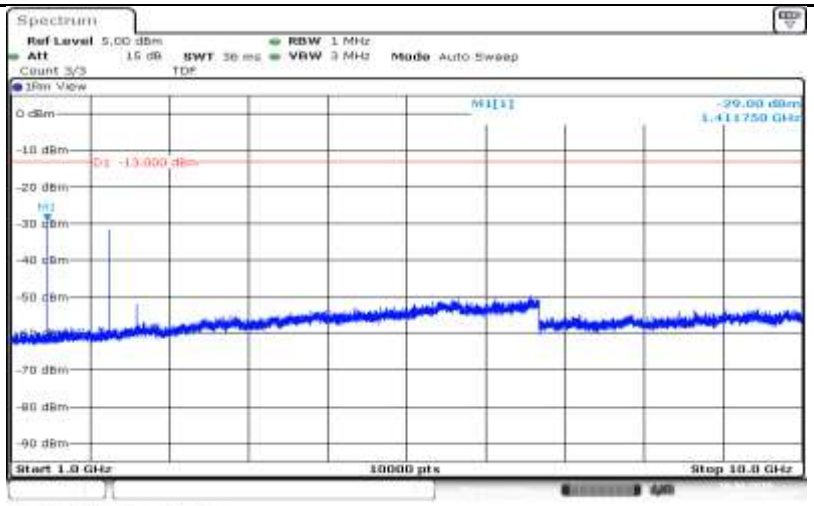
Band17-10MHz-QPSK-23780-1RB#0-Range2:1000~10000MHz



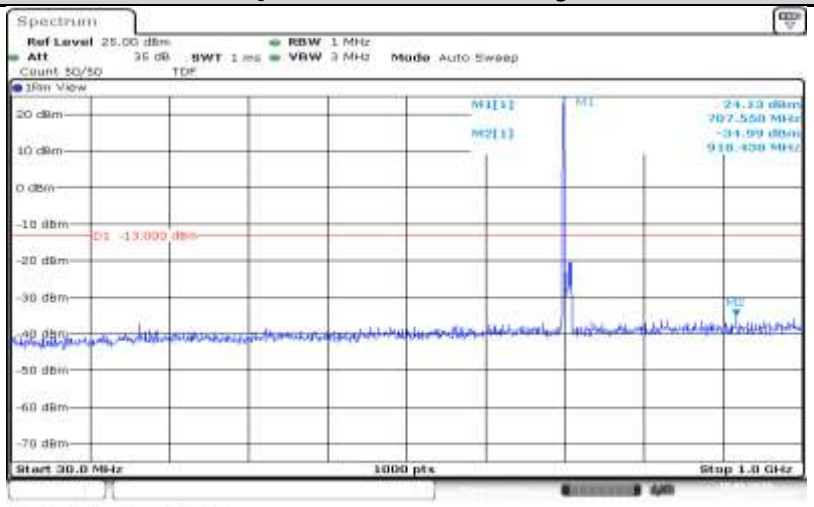
Band17-10MHz-QPSK-23790-1RB#0-Range1:30~1000MHz



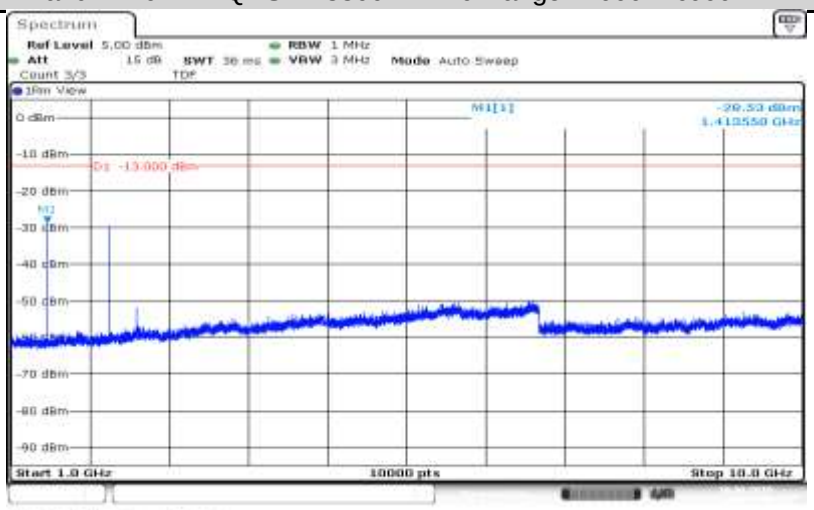
Band17-10MHz-QPSK-23790-1RB#0-Range2:1000~10000MHz



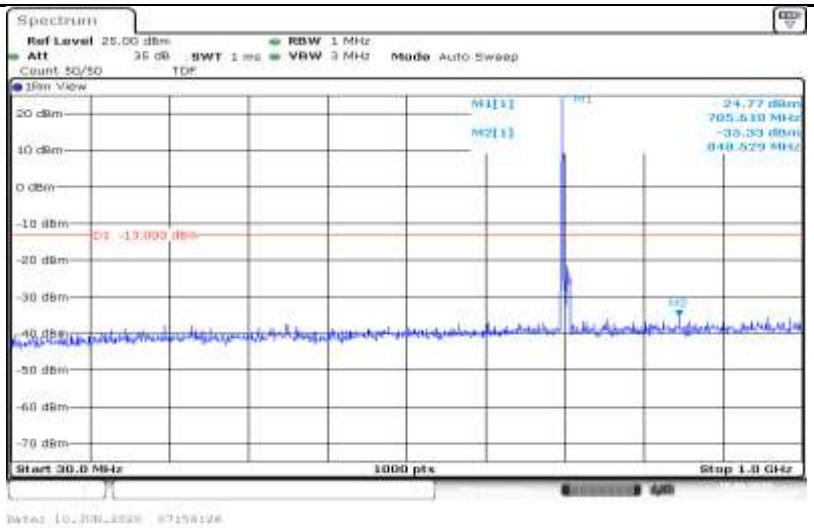
Band17-10MHz-QPSK-23800-1RB#0-Range1:30~1000MHz



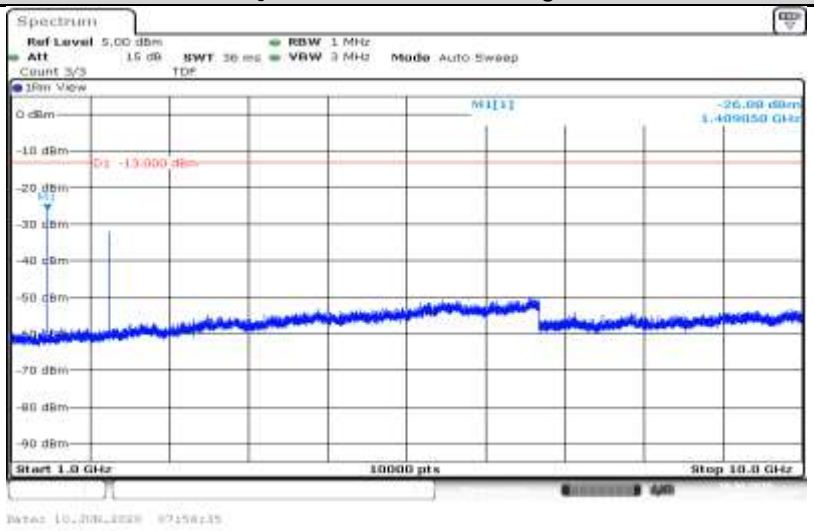
Band17-10MHz-QPSK-23800-1RB#0-Range2:1000~10000MHz



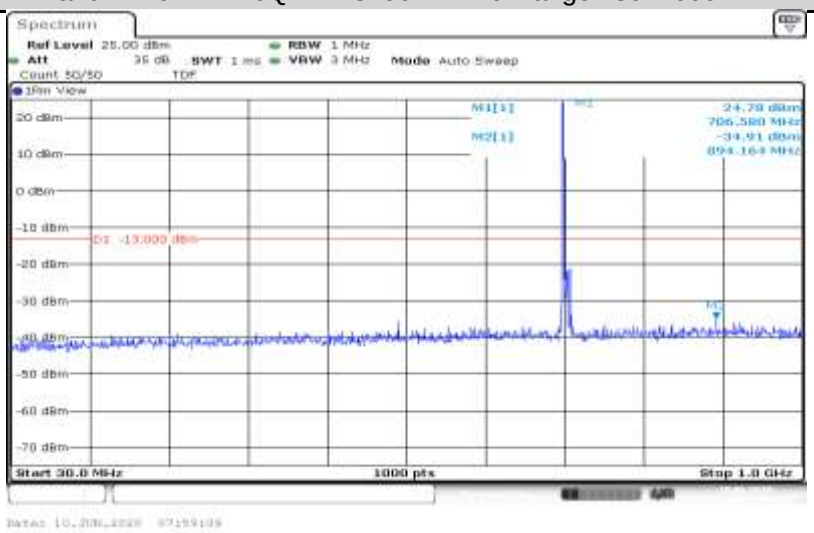
Band17-10MHz-16QAM-23780-1RB#0-Range1:30~1000MHz



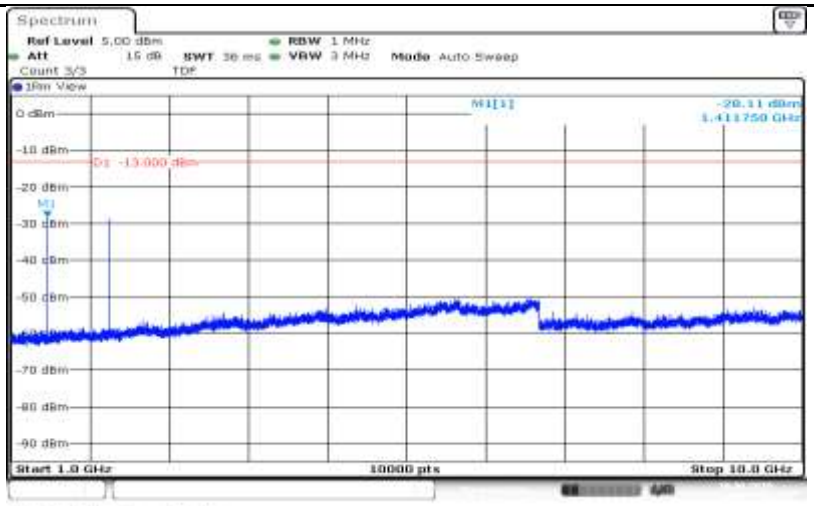
Band17-10MHz-16QAM-23780-1RB#0-Range2:1000~10000MHz



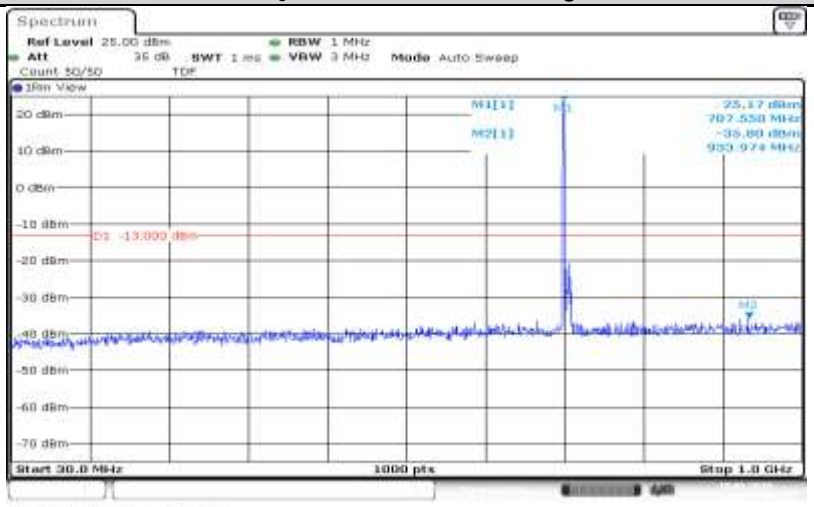
Band17-10MHz-16QAM-23790-1RB#0-Range1:30~1000MHz



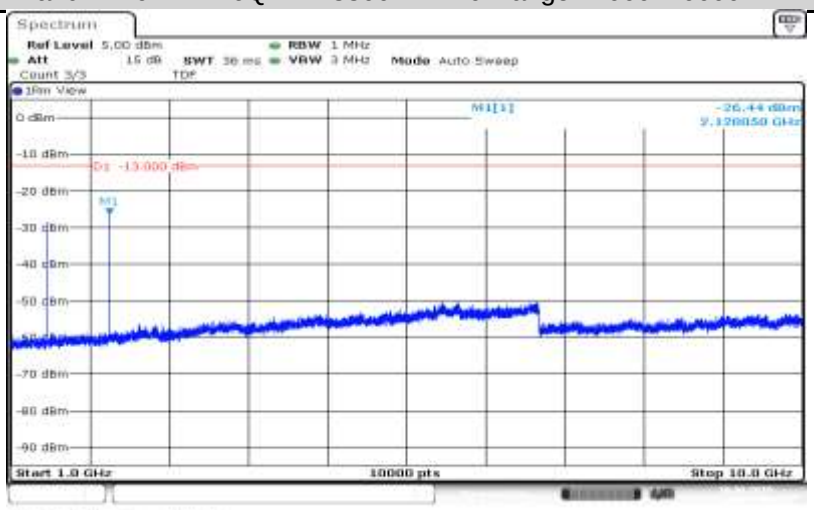
Band17-10MHz-16QAM-23790-1RB#0-Range2:1000~10000MHz



Band17-10MHz-16QAM-23800-1RB#0-Range1:30~1000MHz



Band17-10MHz-16QAM-23800-1RB#0-Range2:1000~10000MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	VL	NT	-5.95	-0.008392	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VN	NT	-7.87	-0.011100	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	VH	NT	-3.22	-0.004542	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-1.10	-0.001549	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	2.27	0.003197	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-2.32	-0.003268	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VL	NT	-5.46	-0.007679	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VN	NT	-4.68	-0.006582	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	VH	NT	-7.37	-0.010366	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VL	NT	-7.15	-0.010085	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VN	NT	-4.81	-0.006784	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	VH	NT	-9.81	-0.013836	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VL	NT	-3.73	-0.005254	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VN	NT	-2.22	-0.003127	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	VH	NT	6.67	0.009394	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VL	NT	-4.21	-0.005921	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VN	NT	-3.45	-0.004852	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	VH	NT	-5.05	-0.007103	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	NV	-30	-3.42	-0.004824	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	-20	-2.55	-0.003597	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	0	-3.72	-0.005247	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	10	-5.14	-0.007250	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	20	-4.94	-0.006968	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	30	-6.57	-0.009267	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	40	-8.34	-0.011763	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	50	-10.36	-0.014612	±2.5	PASS
Band17	10MHz	QPSK	23780	50RB#0	NV	55	-2.56	-0.003611	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-3.08	-0.004338	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	5.76	0.008113	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	7.57	0.010662	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	5.52	0.007775	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	5.12	0.007211	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	4.02	0.005662	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	2.75	0.003873	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	2.62	0.003690	±2.5	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	55	-2.00	-0.002817	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-30	-7.00	-0.009845	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	-20	-7.47	-0.010506	±2.5	PASS

Band17	10MHz	QPSK	23800	50RB#0	NV	0	3.65	0.005134	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	10	-7.42	-0.010436	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	20	2.76	0.003882	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	30	2.09	0.002940	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	40	1.77	0.002489	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	50	-1.93	-0.002714	±2.5	PASS
Band17	10MHz	QPSK	23800	50RB#0	NV	55	-2.37	-0.003333	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-30	-11.33	-0.015980	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	-20	-3.56	-0.005021	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	0	-5.42	-0.007645	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	10	-7.25	-0.010226	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	20	-8.41	-0.011862	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	30	-12.63	-0.017814	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	40	-3.06	-0.004316	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	50	-4.92	-0.006939	±2.5	PASS
Band17	10MHz	16QAM	23780	50RB#0	NV	55	-6.98	-0.009845	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-30	5.87	0.008268	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	-20	5.42	0.007634	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	0	4.15	0.005845	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	10	3.18	0.004479	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	20	2.55	0.003592	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	30	-1.72	-0.002423	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	40	-2.89	-0.004070	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	50	-3.02	-0.004254	±2.5	PASS
Band17	10MHz	16QAM	23790	50RB#0	NV	55	-3.79	-0.005338	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-30	-5.62	-0.007904	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	-20	-6.04	-0.008495	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	0	6.92	0.009733	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	10	5.95	0.008368	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	20	4.42	0.006217	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	30	3.50	0.004923	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	40	1.86	0.002616	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	50	3.78	0.005316	±2.5	PASS
Band17	10MHz	16QAM	23800	50RB#0	NV	55	-1.53	-0.002152	±2.5	PASS