Appendix B

E-UTRA Band 12

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Down Antenna:

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.10	19.35	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.11	19.36	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.09	19.34	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.38	19.63	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.06	19.31	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.03	19.28	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.13	18.38	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.75	20.00	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.98	20.23	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.62	19.87	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.77	20.02	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.70	19.95	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.77	20.02	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.69	18.94	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.69	19.94	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.89	20.14	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.88	20.13	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.84	20.09	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	24.00	20.25	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.99	20.24	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.72	18.97	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.36	18.61	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.52	18.77	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.64	18.89	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.07	18.32	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.09	18.34	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.07	18.32	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.39	17.64	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.07	19.32	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.37	19.62	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.41	19.66	34.77	PASS

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Band12	1.4MHz	16QAM	23095	3RB#0	22.78	19.03	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.64	18.89	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.69	18.94	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.65	17.90	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.23	19.48	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.14	19.39	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.95	19.20	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.69	18.94	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.92	19.17	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.75	19.00	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.13	18.38	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.66	19.91	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.30	19.55	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.12	19.37	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.34	18.59	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.42	18.67	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.27	18.52	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.34	18.59	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.73	19.98	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.76	20.01	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.63	19.88	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.53	18.78	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.71	18.96	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.70	18.95	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.55	18.80	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.77	20.02	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.81	20.06	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.76	20.01	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.68	18.93	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.84	19.09	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.87	19.12	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.73	18.98	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.61	18.86	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.79	19.04	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.48	18.73	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.33	17.58	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.34	17.59	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.30	17.55	34.77	PASS

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Band12	3MHz	16QAM	23095	1RB#0	23.04	19.29	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.98	19.23	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.56	18.81	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.61	17.86	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.59	17.84	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.63	17.88	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.64	17.89	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.88	19.13	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.44	19.69	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.15	19.40	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.80	18.05	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.84	18.09	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.66	17.91	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.88	18.13	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.72	19.97	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.71	19.96	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.42	19.67	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.34	18.59	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.39	18.64	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.58	18.83	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.49	18.74	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.63	19.88	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.95	20.20	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.74	19.99	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.70	18.95	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.73	18.98	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.76	19.01	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.77	19.02	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.89	20.14	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.77	20.02	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.84	20.09	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.85	19.10	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.80	19.05	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.78	19.03	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.66	18.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.66	18.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.87	19.12	34.77	PASS

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Band12	5MHz	16QAM	23035	12RB#0	21.38	17.63	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.44	17.69	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.55	17.80	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.52	17.77	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.83	19.08	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.94	19.19	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.85	19.10	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.64	17.89	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.57	17.82	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.64	17.89	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.66	17.91	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.75	19.00	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.29	19.54	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.05	19.30	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.71	17.96	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.77	18.02	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.88	18.13	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.69	17.94	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.57	19.82	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.33	19.58	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.85	20.10	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.54	18.79	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.61	18.86	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.73	18.98	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.59	18.84	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.78	20.03	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.81	20.06	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.15	20.40	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.75	19.00	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.83	19.08	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.77	19.02	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.73	18.98	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.76	20.01	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.87	20.12	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.13	20.38	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.71	18.96	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.81	19.06	34.77	PASS

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Band12	10MHz	QPSK	23130	25RB#25	22.74	18.99	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.60	18.85	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.82	19.07	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.86	19.11	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.24	19.49	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.52	17.77	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.58	17.83	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.64	17.89	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.62	17.87	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.72	18.97	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.59	18.84	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.85	19.10	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.56	17.81	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.74	17.99	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.75	18.00	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.61	17.86	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.77	19.02	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.95	19.20	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.93	19.18	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.57	17.82	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.71	17.96	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.71	17.96	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.75	18.00	34.77	PASS

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Up Antenna:

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.23	18.28	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.39	18.44	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.22	18.27	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.87	17.92	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.92	17.97	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.83	17.88	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.17	17.22	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.03	18.08	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.16	18.21	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.19	18.24	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.84	17.89	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.87	17.92	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.84	17.89	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.19	17.24	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.47	18.52	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.62	18.67	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.34	18.39	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.15	18.20	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.00	18.05	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.90	17.95	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.02	17.07	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.26	17.31	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.17	17.22	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.34	17.39	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.74	16.79	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.79	16.84	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.71	16.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.28	16.33	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.29	17.34	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.37	17.42	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.23	17.28	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.90	16.95	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.96	17.01	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.02	17.07	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.02	16.07	34.77	PASS

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Band12	1.4MHz	16QAM	23173	1RB#0	22.42	17.47	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.71	17.76	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.43	17.48	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.29	17.34	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.23	17.28	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.10	17.15	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.56	16.61	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.04	18.09	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.40	18.45	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.12	18.17	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.07	17.12	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.01	17.06	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.14	17.19	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.05	17.10	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.52	18.57	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.51	18.56	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.47	18.52	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.34	17.39	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.37	17.42	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.35	17.40	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.43	17.48	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.45	18.50	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.45	18.50	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.54	18.59	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.50	17.55	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.54	17.59	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.53	17.58	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.55	17.60	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.50	17.55	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.06	17.11	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.28	17.33	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.13	16.18	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.20	16.25	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.07	16.12	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.01	16.06	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.00	18.05	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.00	18.05	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.74	17.79	34.77	PASS

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Band12	3MHz	16QAM	23095	8RB#0	21.48	16.53	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.42	16.47	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.41	16.46	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.33	16.38	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.49	17.54	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.93	17.98	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.65	17.70	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.49	16.54	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.50	16.55	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.66	16.71	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.52	16.57	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.31	18.36	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.30	18.35	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.07	18.12	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.56	17.61	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.13	17.18	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.32	17.37	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.27	17.32	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.41	18.46	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.56	18.61	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.54	18.59	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.46	17.51	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.52	17.57	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.43	17.48	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.50	17.55	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.23	18.28	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.84	18.89	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.58	18.63	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.49	17.54	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.50	17.55	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.51	17.56	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.54	17.59	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.66	17.71	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.58	17.63	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.66	17.71	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.13	16.18	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.16	16.21	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.31	16.36	34.77	PASS

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Band12	5MHz	16QAM	23095	1RB#0	22.43	17.48	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.66	17.71	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.38	17.43	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.43	16.48	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.35	16.40	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.36	16.41	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.41	16.46	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.73	17.78	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.23	18.28	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.27	18.32	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.58	16.63	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.54	16.59	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.49	16.54	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.49	16.54	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.12	18.17	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.46	18.51	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.66	18.71	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.44	17.49	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.47	17.52	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.58	17.63	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.47	17.52	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.64	18.69	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.56	18.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.77	18.82	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.59	17.64	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.69	17.74	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.69	17.74	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.59	17.64	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.56	18.61	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.87	18.92	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.21	19.26	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.57	17.62	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.82	17.87	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.74	17.79	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.75	17.80	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.39	17.44	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.90	17.95	34.77	PASS

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Band12	10MHz	16QAM	23060	1RB#49	23.15	18.20	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.45	16.50	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.47	16.52	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.65	16.70	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.53	16.58	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.77	17.82	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.52	17.57	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.78	17.83	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.55	16.60	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.75	16.80	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.67	16.72	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.57	16.62	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.11	18.16	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.95	18.00	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.95	18.00	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.62	16.67	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.62	16.67	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.67	16.72	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.69	16.74	34.77	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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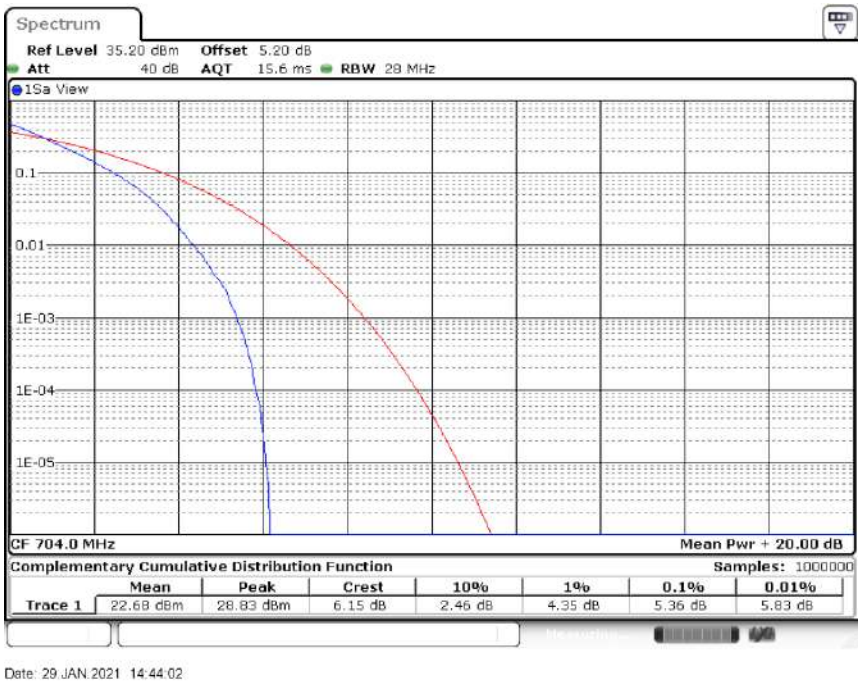
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.36	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.30	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.09	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.09	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.94	13	PASS

2.2. Test Plots

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



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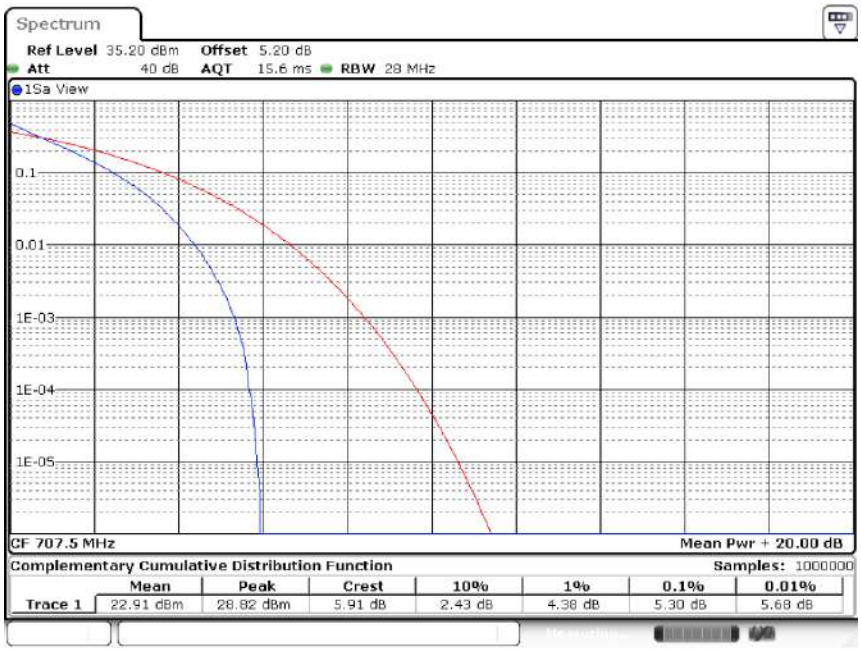
Band12-10MHz-QPSK-23095-50RB#0



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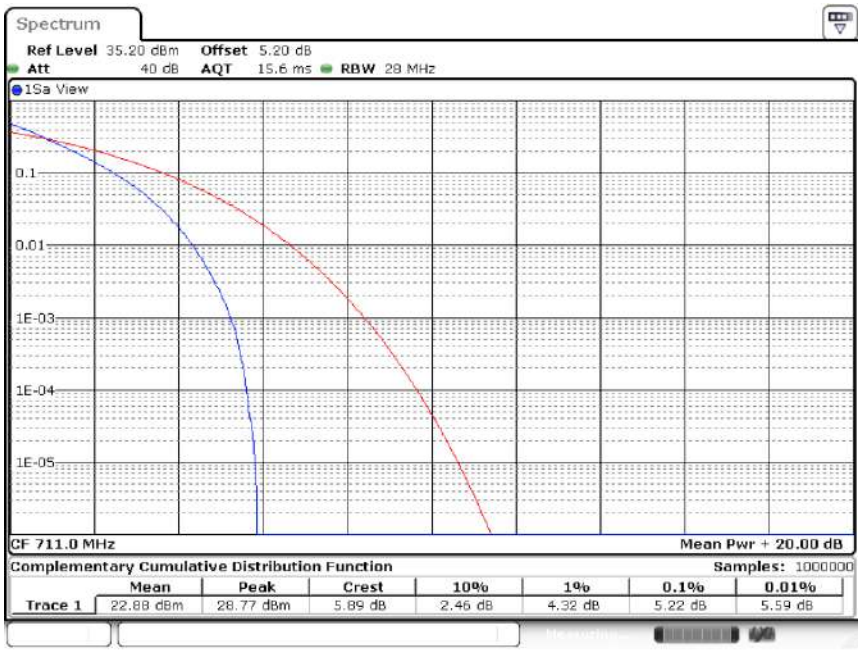
Band12-10MHz-QPSK-23130-50RB#0



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

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

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

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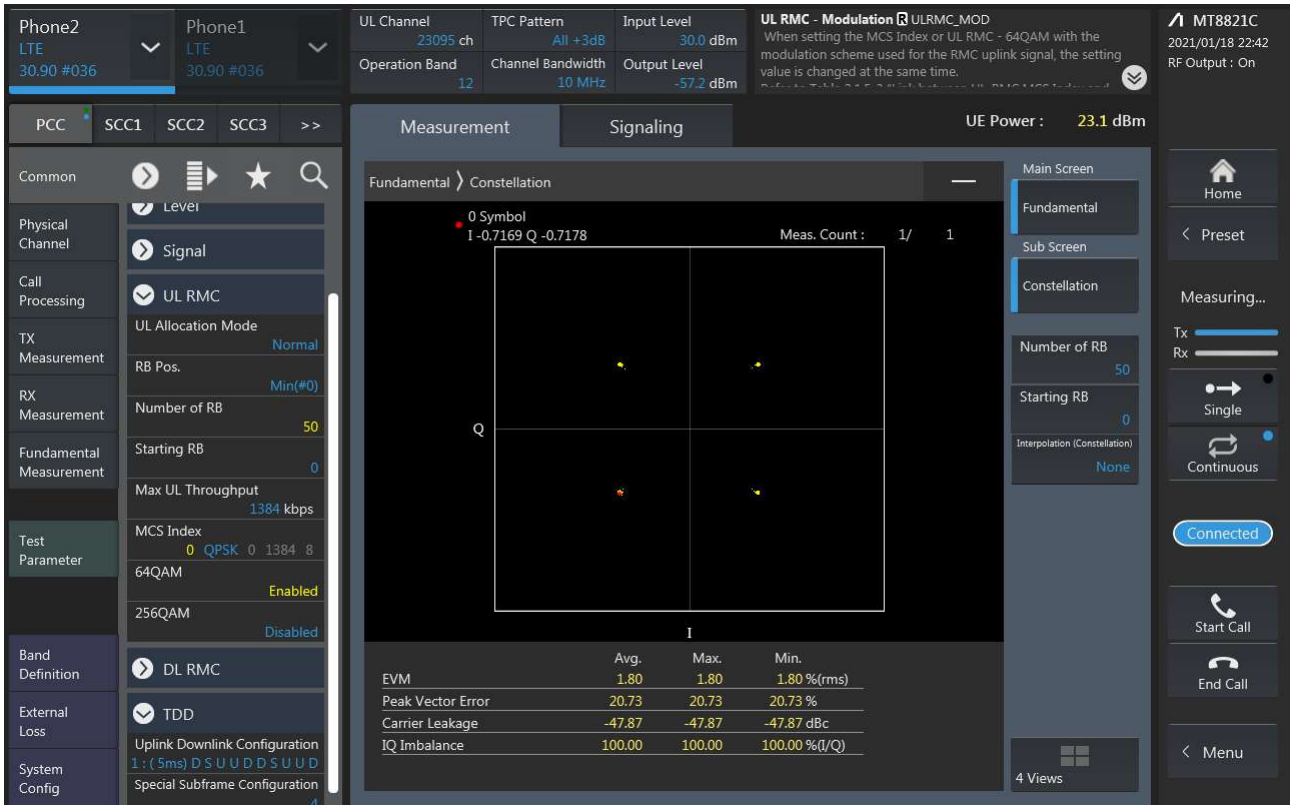
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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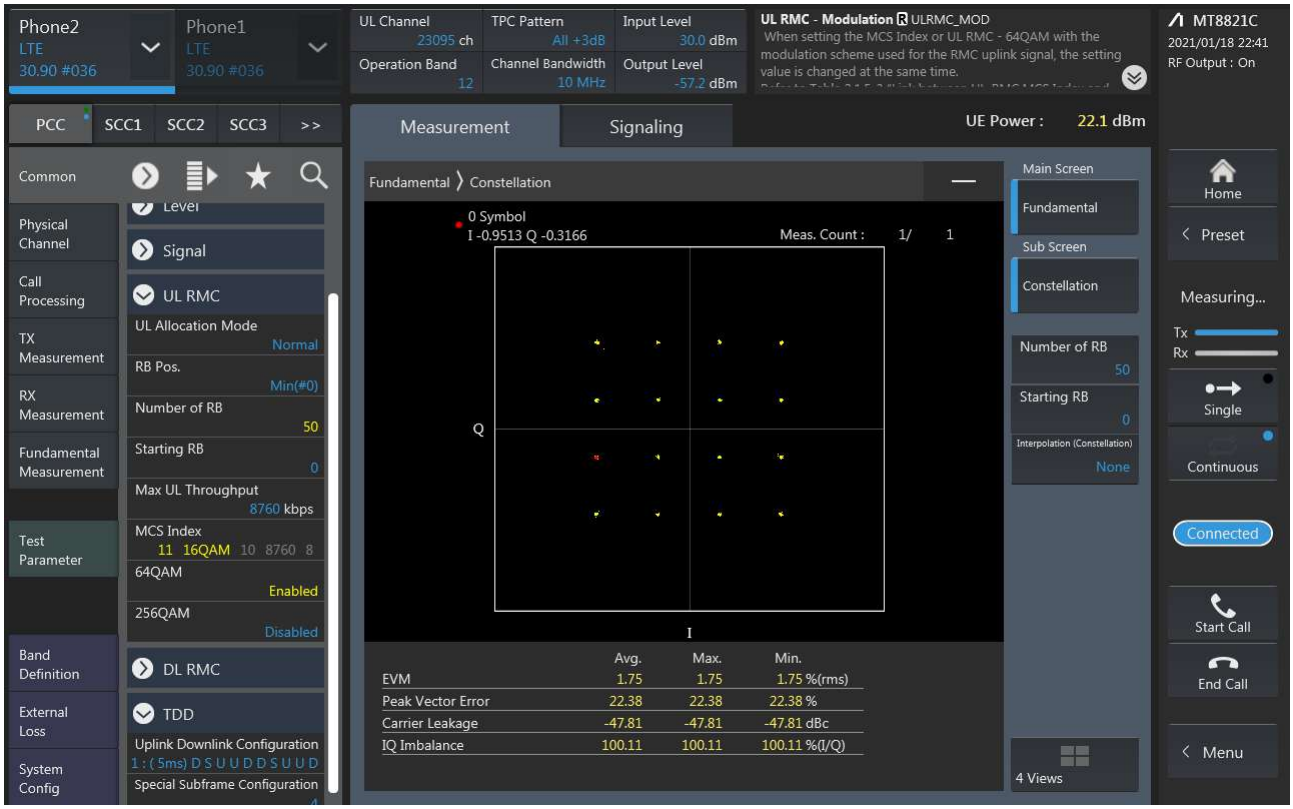
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.094	1.293	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.091	1.296	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.094	1.296	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.088	1.284	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.094	1.287	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.094	1.284	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.697	2.982	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.697	3.000	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.697	3.000	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.685	2.970	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.691	2.976	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.685	2.970	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.920	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	4.950	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.476	4.930	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.476	4.940	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.486	4.930	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.476	4.960	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.911	9.700	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.951	9.780	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.931	9.760	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.911	9.760	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.951	9.760	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.911	9.760	PASS

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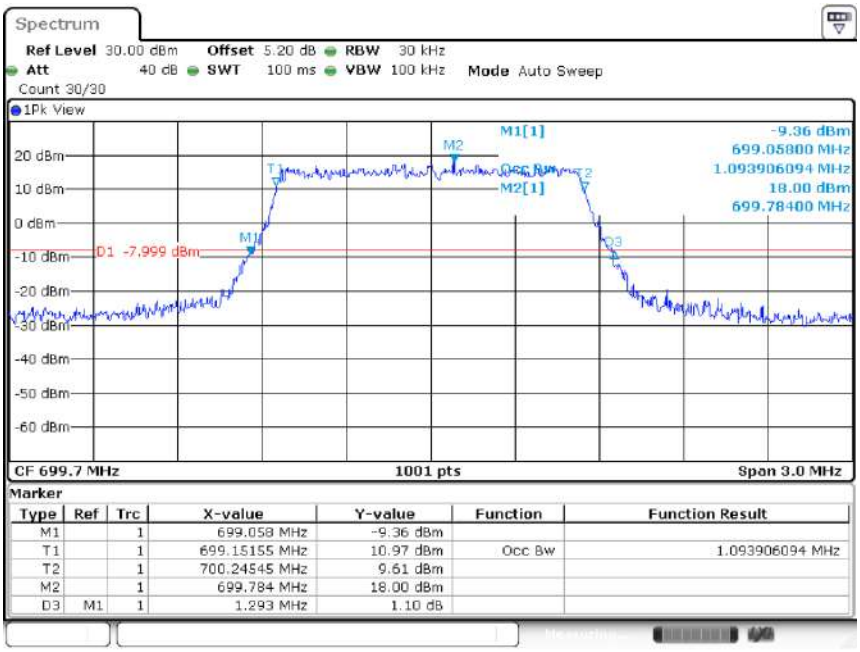
4.2. Test Plots

Band12-1.4MHz-QPSK-23017-6RB#0-1.094



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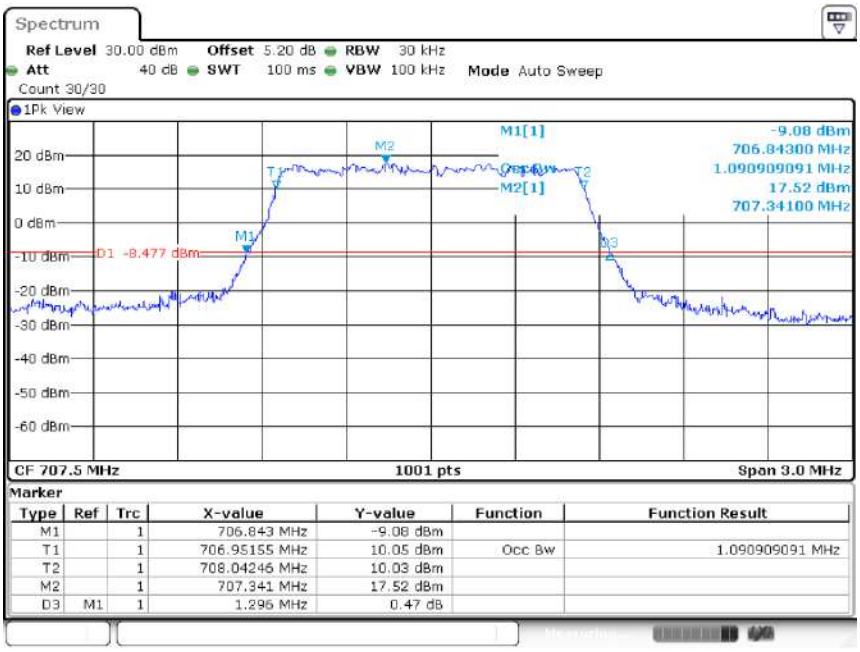

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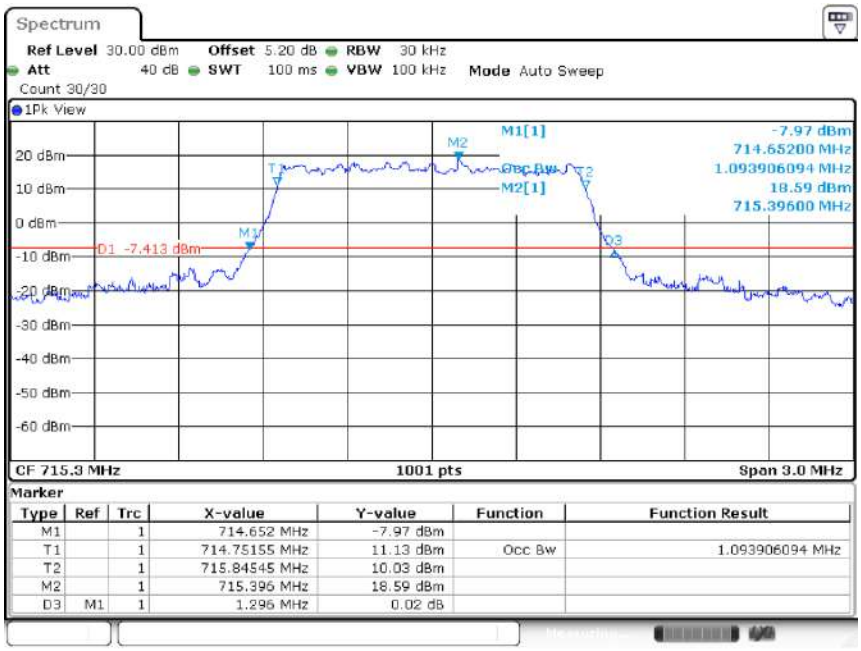
Band12-1.4MHz-QPSK-23173-6RB#0-1.094



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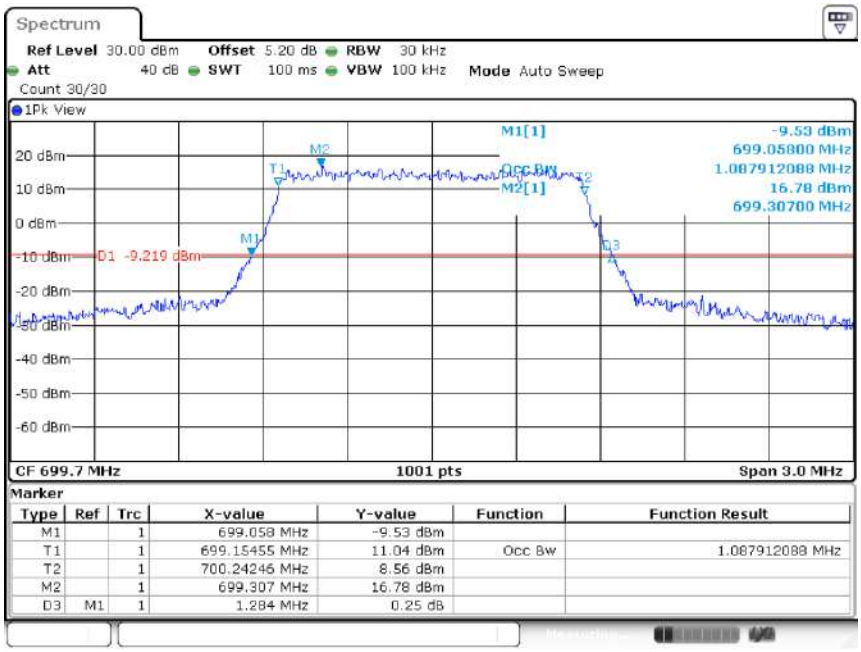
Band12-1.4MHz-16QAM-23017-6RB#0-1.088



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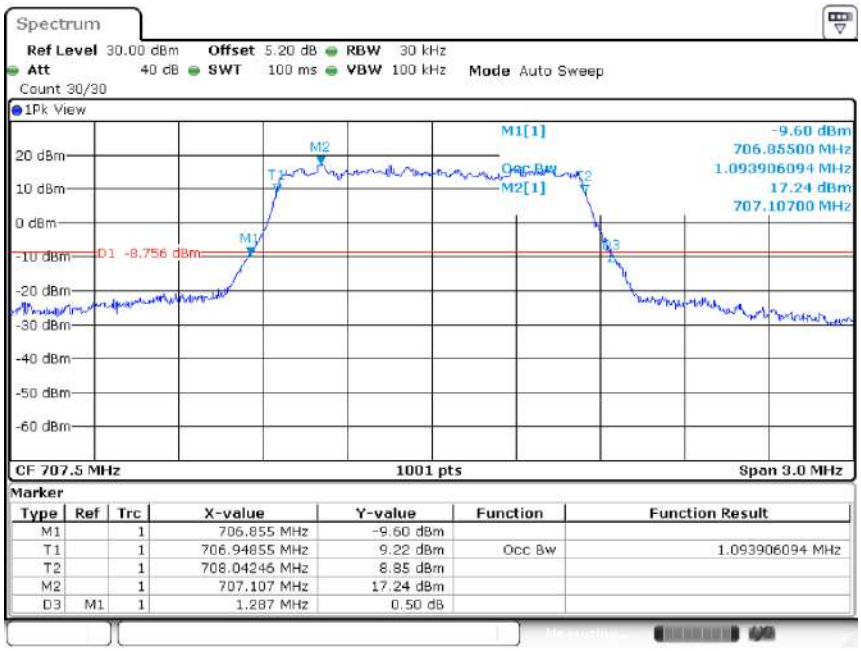
Band12-1.4MHz-16QAM-23095-6RB#0-1.094

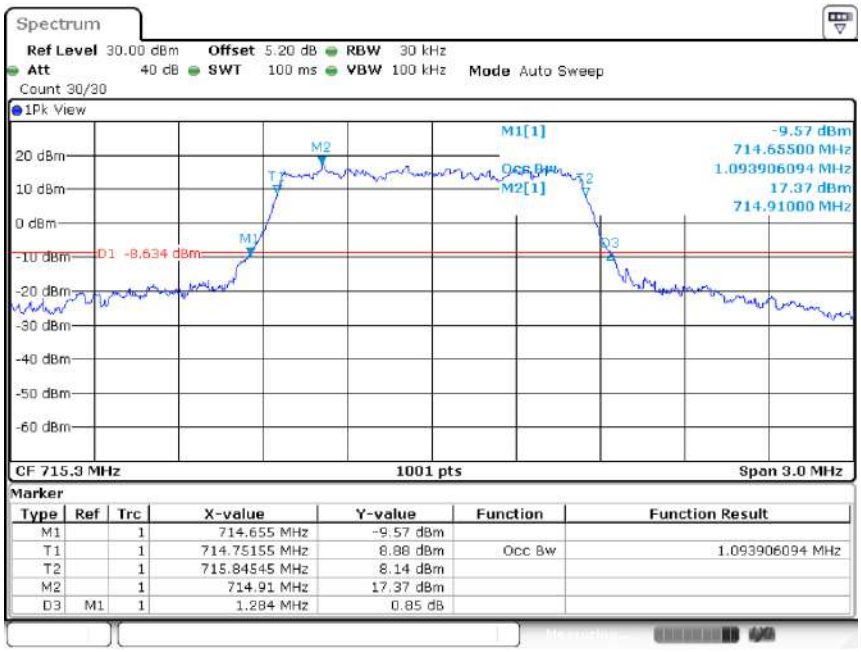


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.855 MHz	-9.60 dBm		
T1		1	706.94855 MHz	9.22 dBm	Occ Bw	1.093906094 MHz
T2		1	708.04246 MHz	8.85 dBm		
M2		1	707.107 MHz	17.24 dBm		
D3	M1	1	1.287 MHz	0.50 dB		

Date: 29.JAN.2021 14:18:05

Band12-1.4MHz-16QAM-23173-6RB#0-1.094



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	714.655 MHz	-9.57 dBm		
T1		1	714.75155 MHz	8.88 dBm	Occ Bw	1.093906094 MHz
T2		1	715.84545 MHz	8.14 dBm		
M2		1	714.91 MHz	17.37 dBm		
D3	M1	1	1.284 MHz	0.85 dB		

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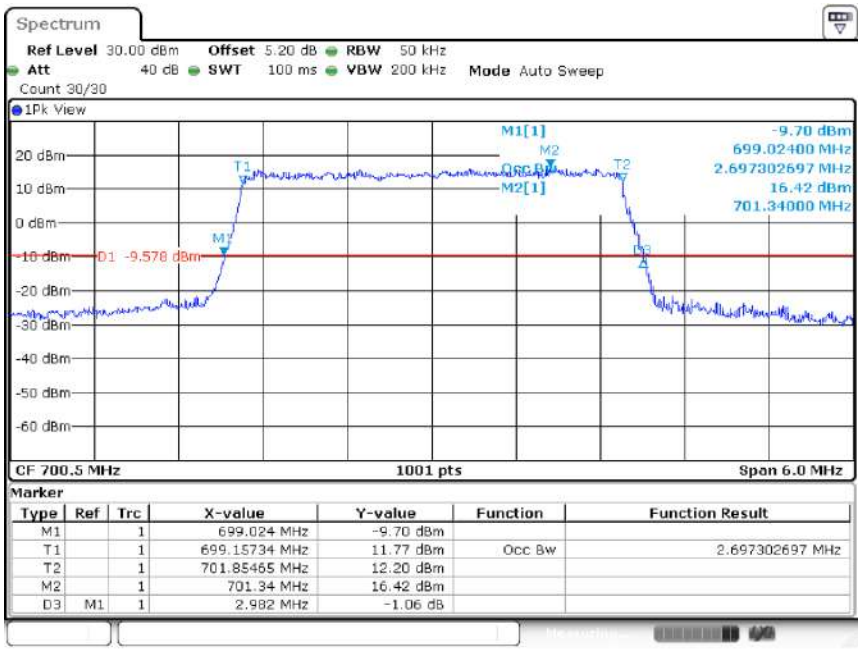
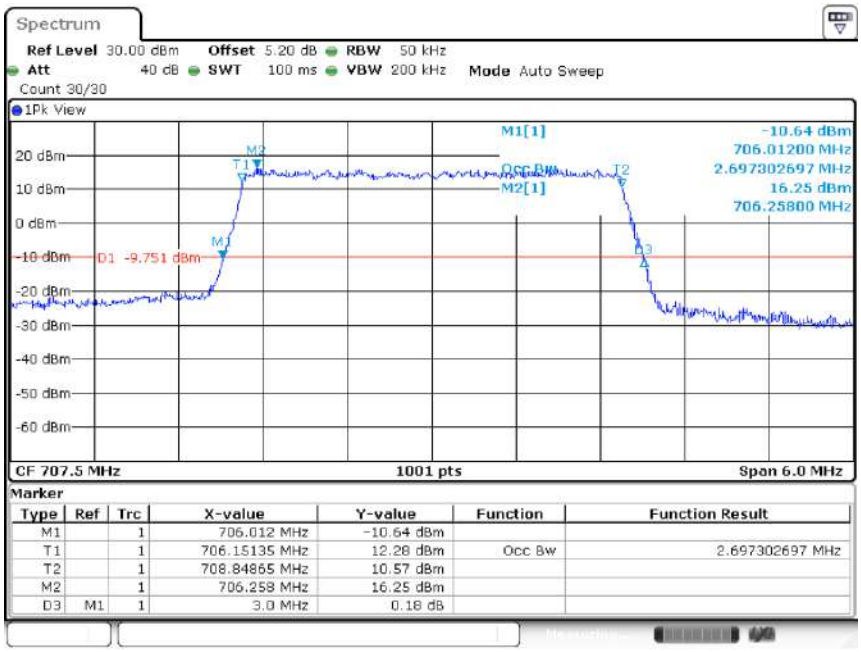
Band12-3MHz-QPSK-23025-15RB#0-2.697



Date: 29.JAN.2021 14:18:49

Band12-3MHz-QPSK-23095-15RB#0-2.697



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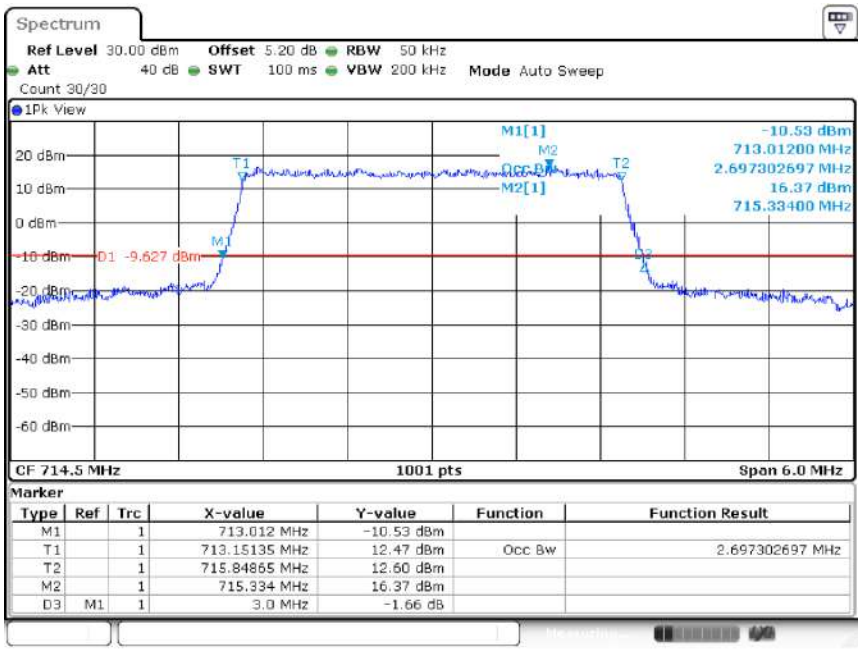
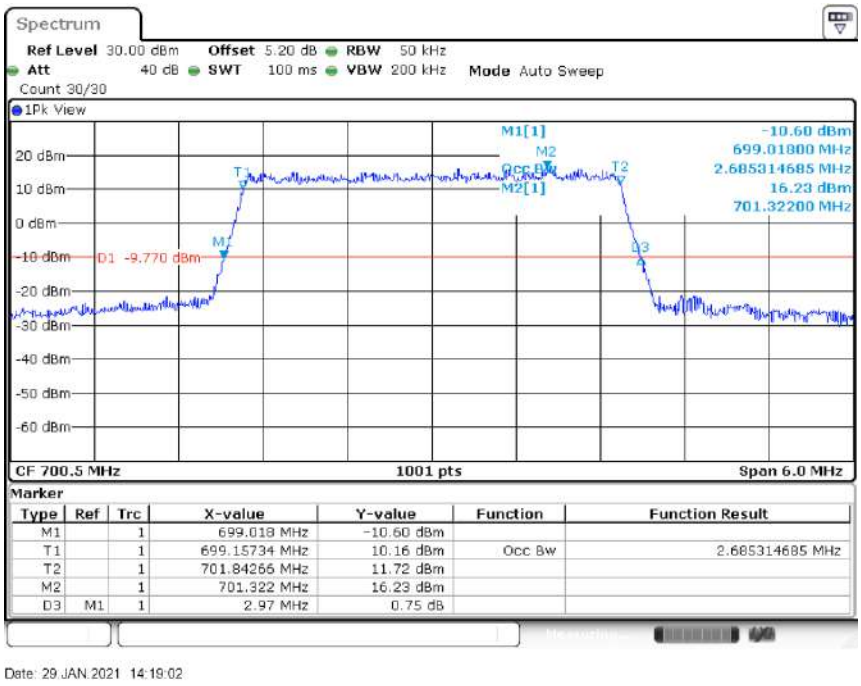
Band12-3MHz-QPSK-23165-15RB#0-2.697



Band12-3MHz-16QAM-23025-15RB#0-2.685



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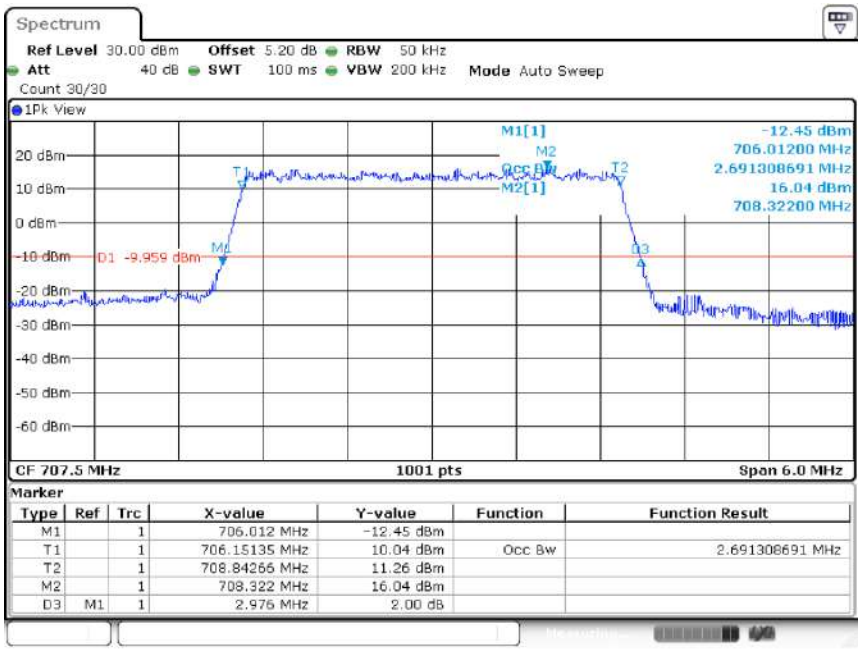
Band12-3MHz-16QAM-23095-15RB#0-2.691



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.012 MHz	-12.45 dBm		
T1		1	706.15135 MHz	10.04 dBm	Occ Bw	2.691308691 MHz
T2		1	708.84266 MHz	11.26 dBm		
M2		1	708.322 MHz	16.04 dBm		
D3	M1	1	2.976 MHz	2.00 dB		

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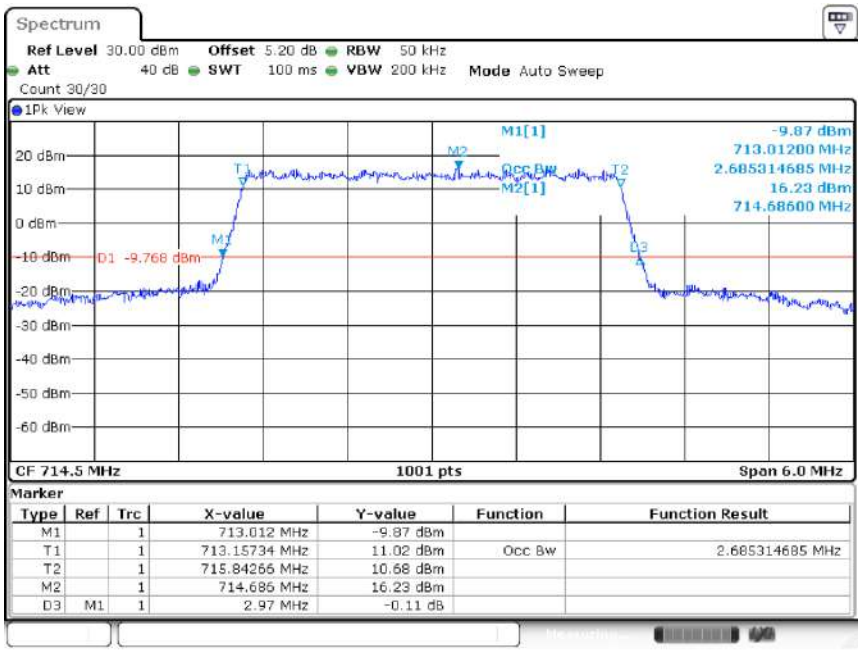
Band12-3MHz-16QAM-23165-15RB#0-2.685



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	713.012 MHz	-9.87 dBm		
T1		1	713.15734 MHz	11.02 dBm	Occ Bw	2.685314685 MHz
T2		1	715.84266 MHz	10.68 dBm		
M2		1	714.686 MHz	16.23 dBm		
D3	M1	1	2.97 MHz	-0.11 dB		

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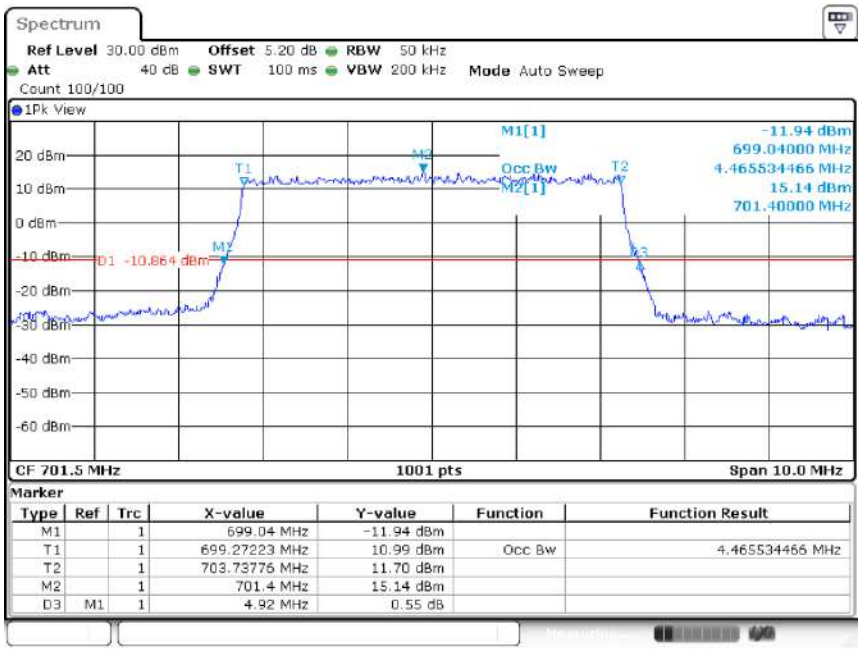
Band12-5MHz-QPSK-23035-25RB#0-4.466

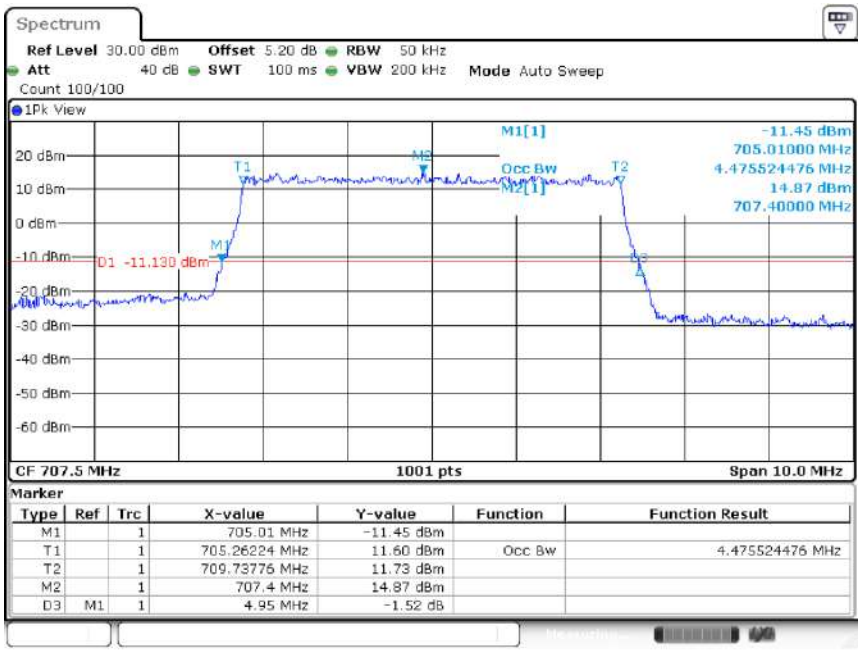


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.04 MHz	-11.94 dBm		
T1		1	699.27223 MHz	10.99 dBm	Occ Bw	4.465534466 MHz
T2		1	703.73776 MHz	11.70 dBm		
M2		1	701.4 MHz	15.14 dBm		
D3	M1	1	4.92 MHz	0.55 dB		

Date: 29.JAN.2021 14:20:18

Band12-5MHz-QPSK-23095-25RB#0-4.476



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	705.01 MHz	-11.45 dBm		
T1		1	705.26224 MHz	11.60 dBm	Occ Bw	4.475524476 MHz
T2		1	709.73776 MHz	11.73 dBm		
M2		1	707.4 MHz	14.87 dBm		
D3	M1	1	4.95 MHz	-1.52 dB		

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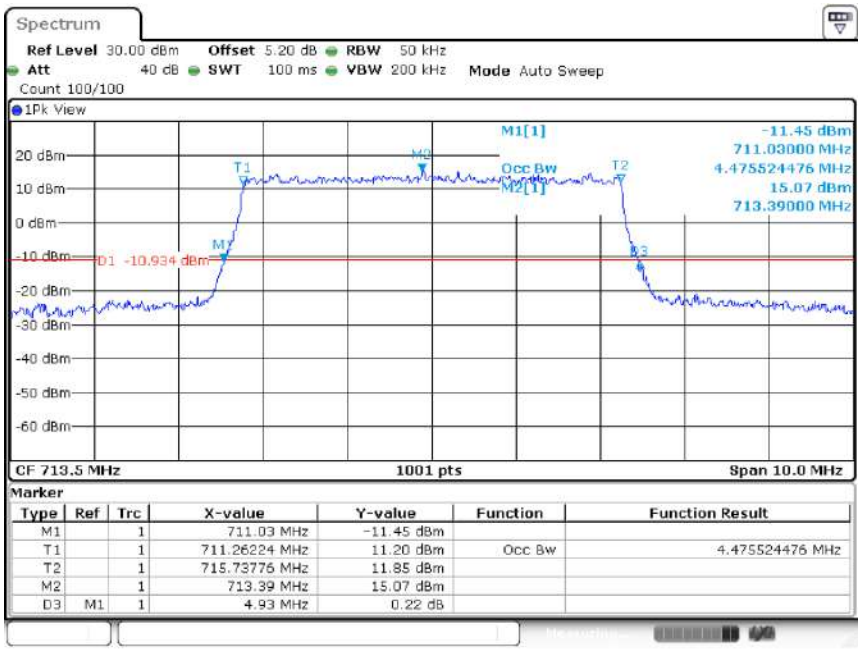
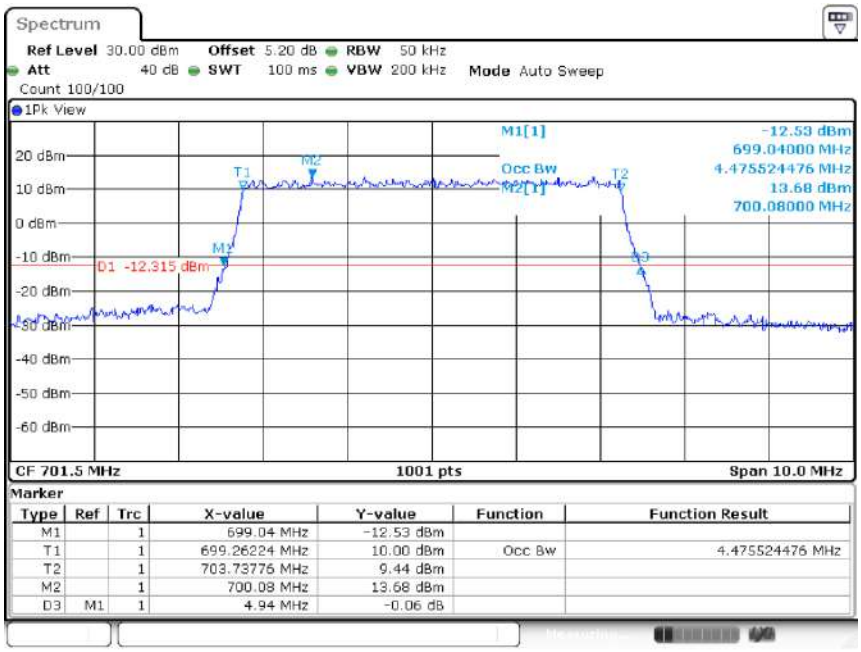
Band12-5MHz-QPSK-23155-25RB#0-4.476



Date: 29.JAN.2021 14:21:38

Band12-5MHz-16QAM-23035-25RB#0-4.476



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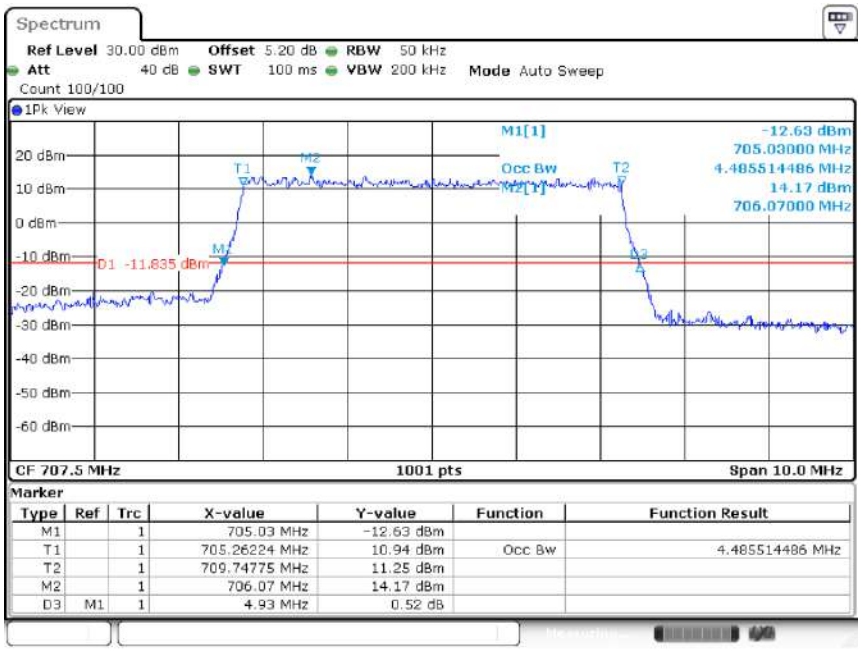
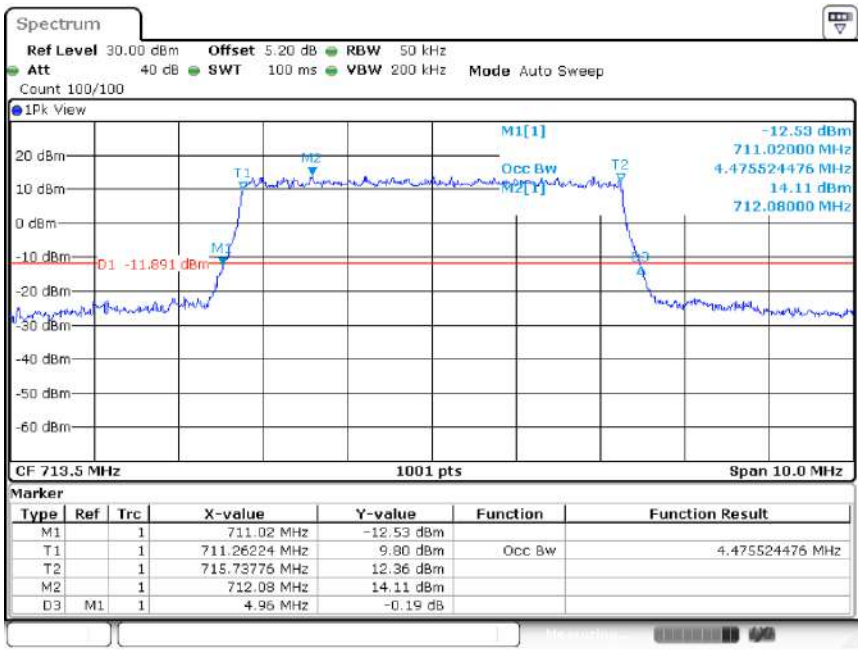
Band12-5MHz-16QAM-23095-25RB#0-4.486



Date: 29.JAN.2021 14:21:18

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



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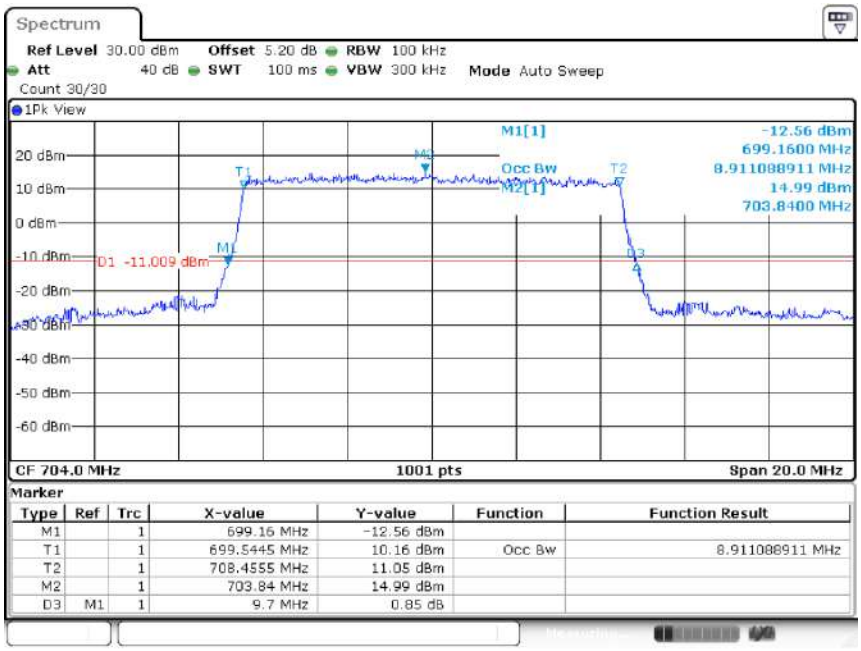
Band12-10MHz-QPSK-23060-50RB#0-8.911

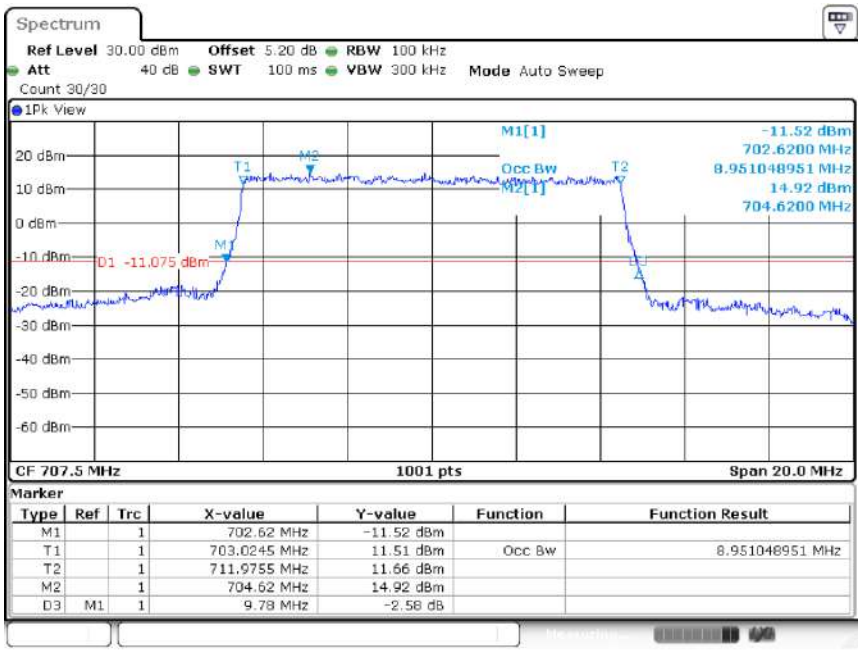


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.16 MHz	-12.56 dBm		
T1		1	699.5445 MHz	10.16 dBm	Occ Bw	8.911088911 MHz
T2		1	708.4555 MHz	11.05 dBm		
M2		1	703.84 MHz	14.99 dBm		
D3	M1	1	9.7 MHz	0.85 dB		

Date: 29.JAN.2021 14:22:15

Band12-10MHz-QPSK-23095-50RB#0-8.951



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	702.62 MHz	-11.52 dBm		
T1		1	703.0245 MHz	11.51 dBm	Occ Bw	8.951048951 MHz
T2		1	711.9755 MHz	11.66 dBm		
M2		1	704.62 MHz	14.92 dBm		
D3	M1	1	9.78 MHz	-2.58 dB		

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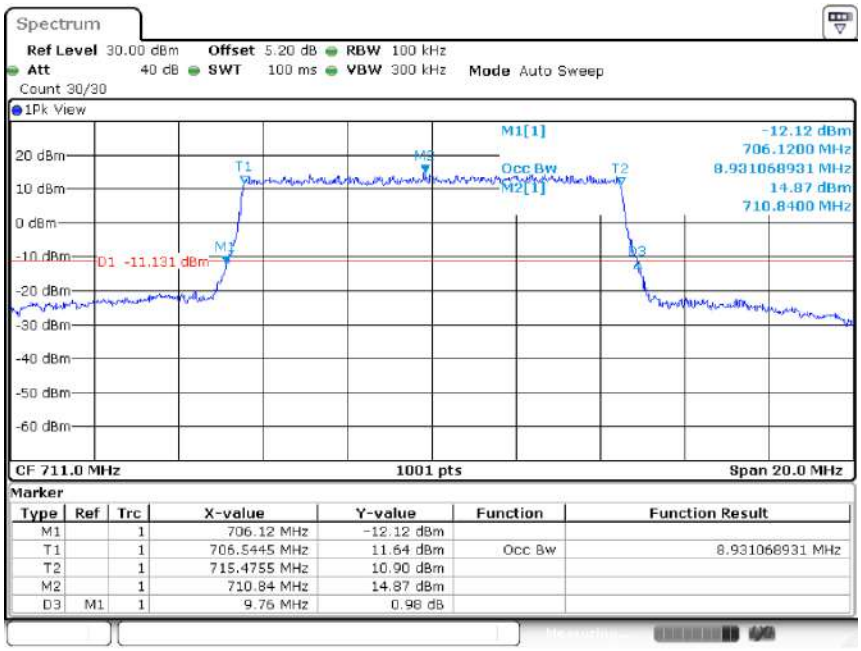
Band12-10MHz-QPSK-23130-50RB#0-8.931



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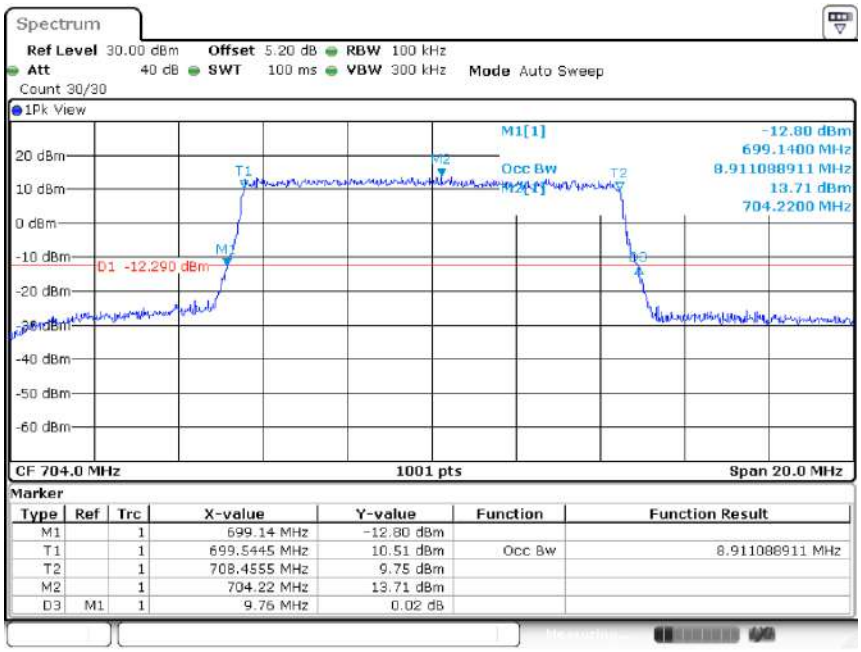

Date: 29.JAN.2021 14:22:28

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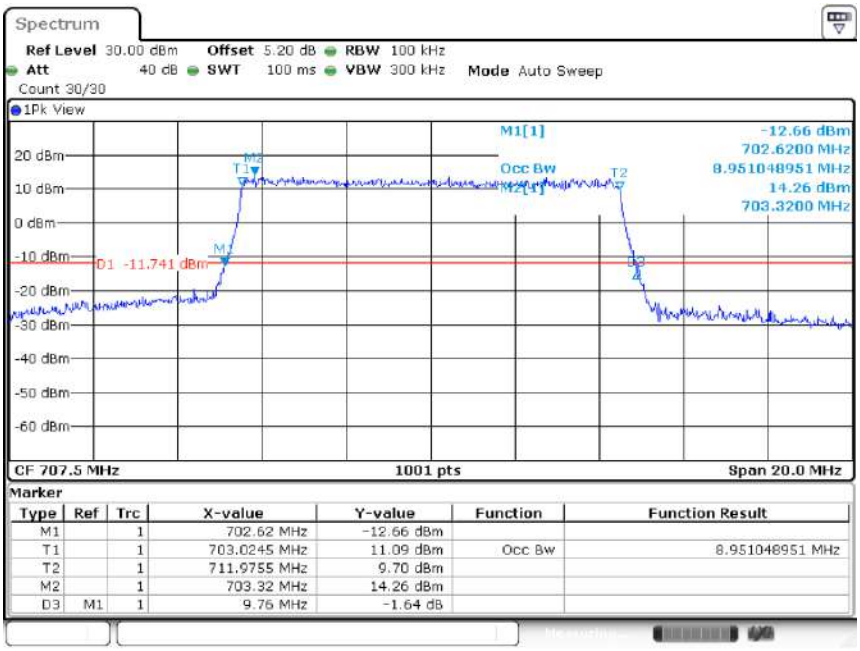
Band12-10MHz-16QAM-23095-50RB#0-8.951



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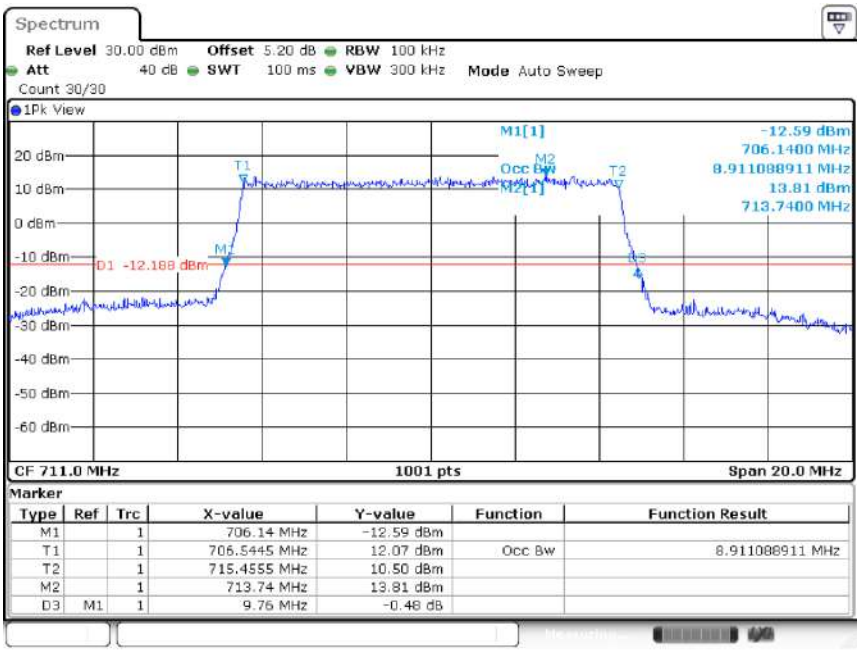

Date: 29.JAN.2021 14:23:21

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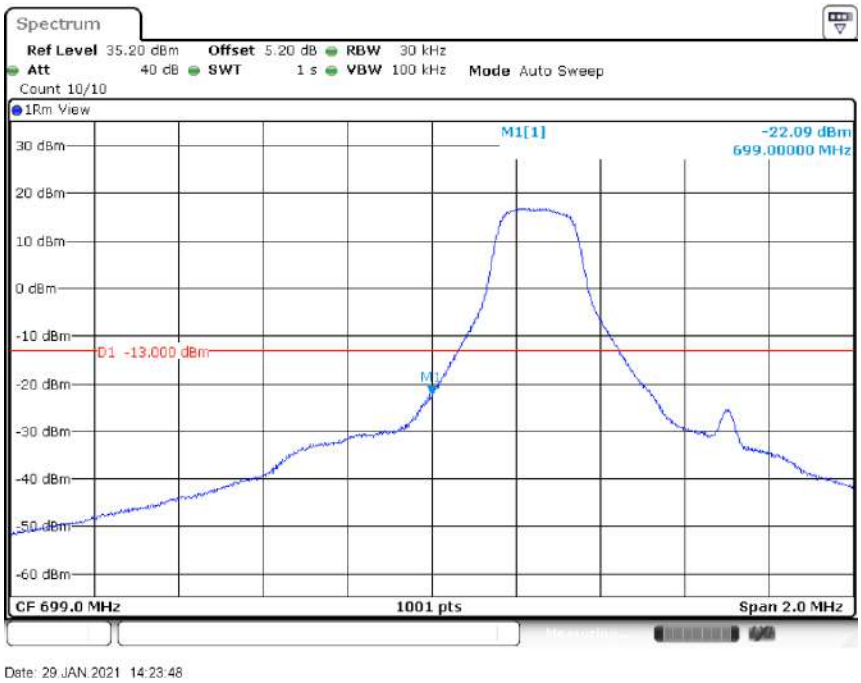
5. Band Edge Compliance

5.1. Test Plots

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



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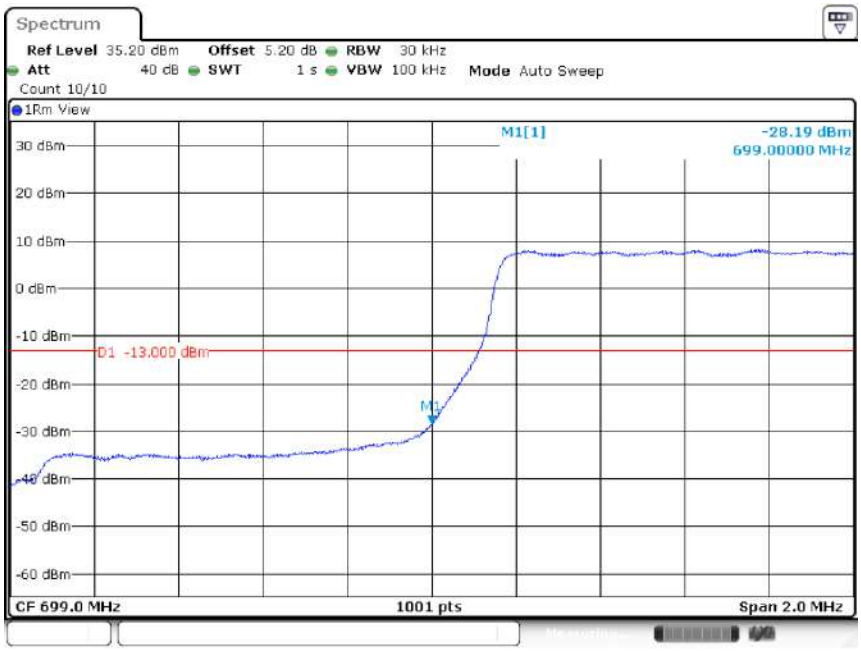
Band12-1.4MHz-QPSK-23017-6RB#0



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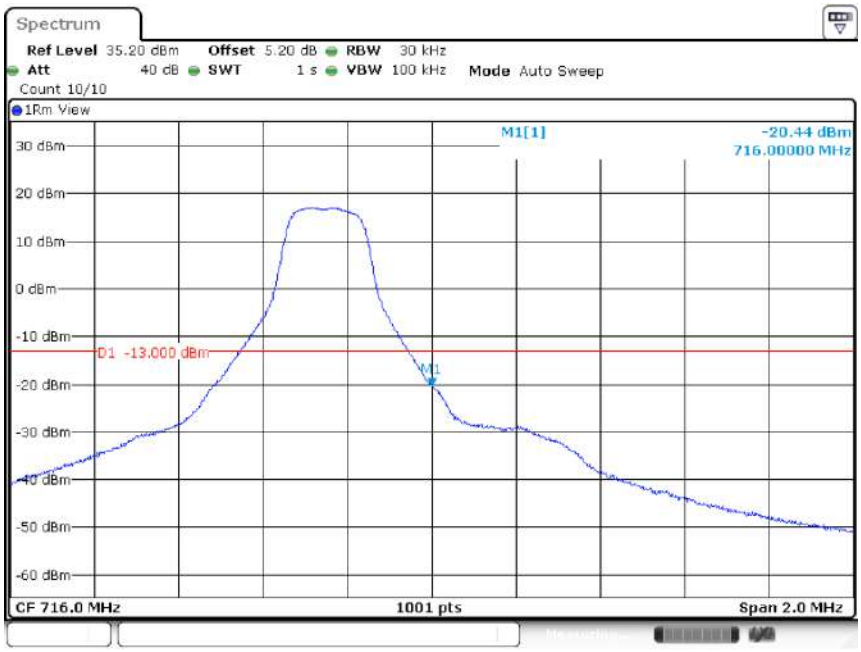
Band12-1.4MHz-QPSK-23173-1RB#5



Date: 29.JAN.2021 14:25:15

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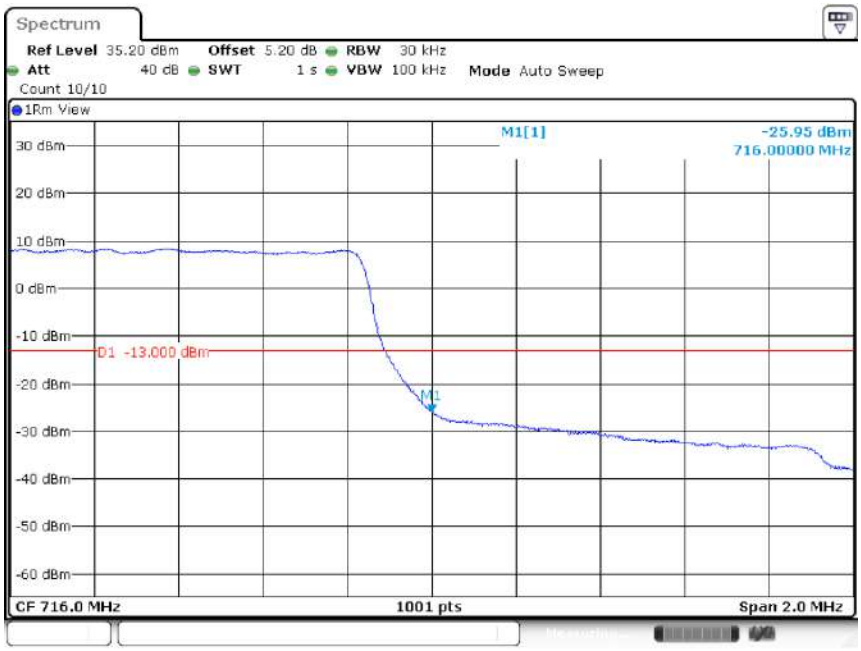
Band12-1.4MHz-QPSK-23173-6RB#0



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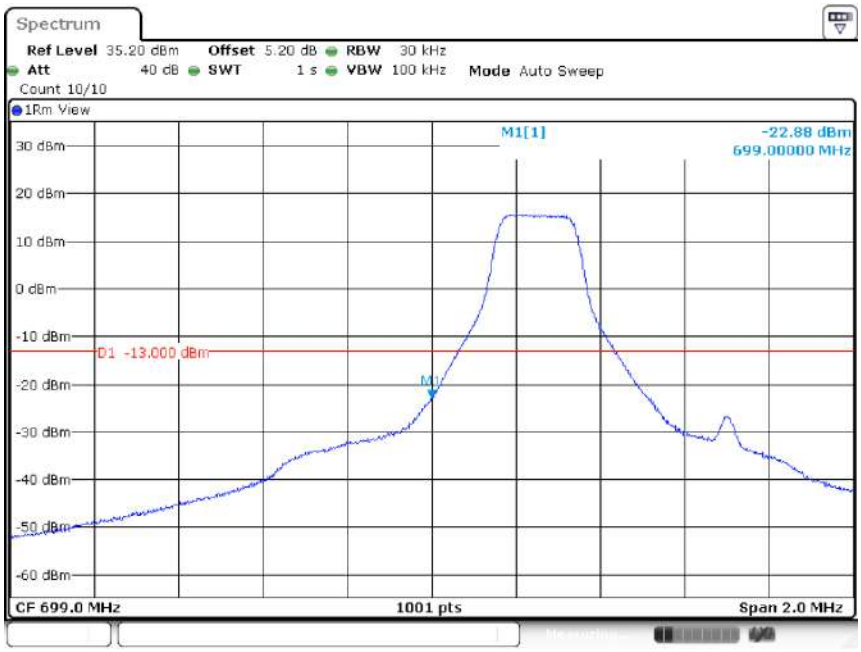

Date: 29.JAN.2021 14:24:09

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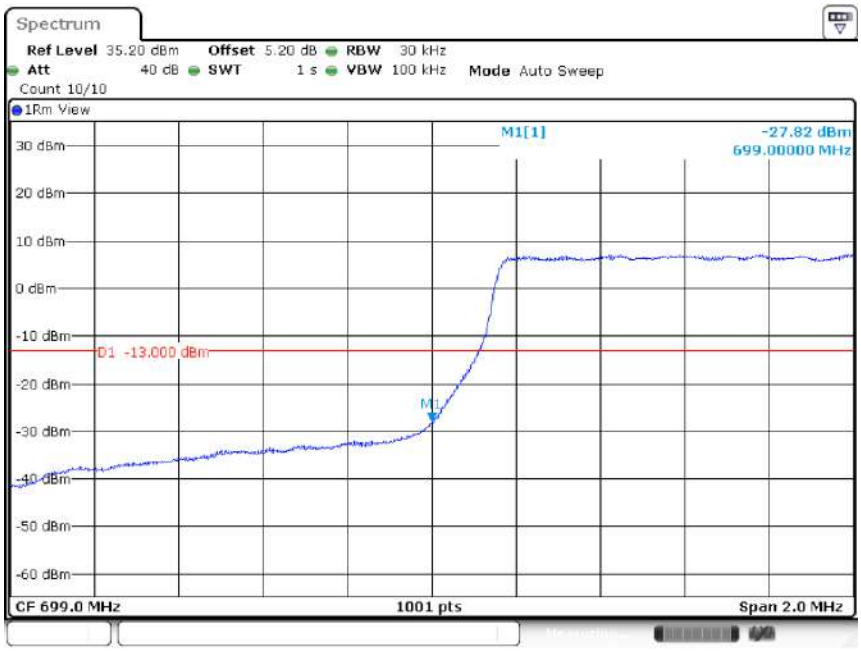
Band12-1.4MHz-16QAM-23017-6RB#0



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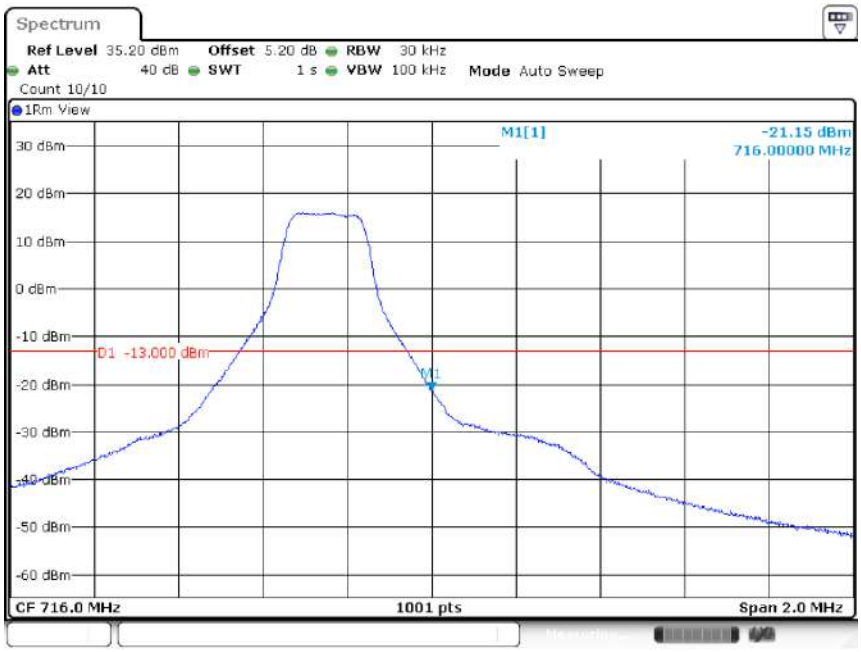
Band12-1.4MHz-16QAM-23173-1RB#5



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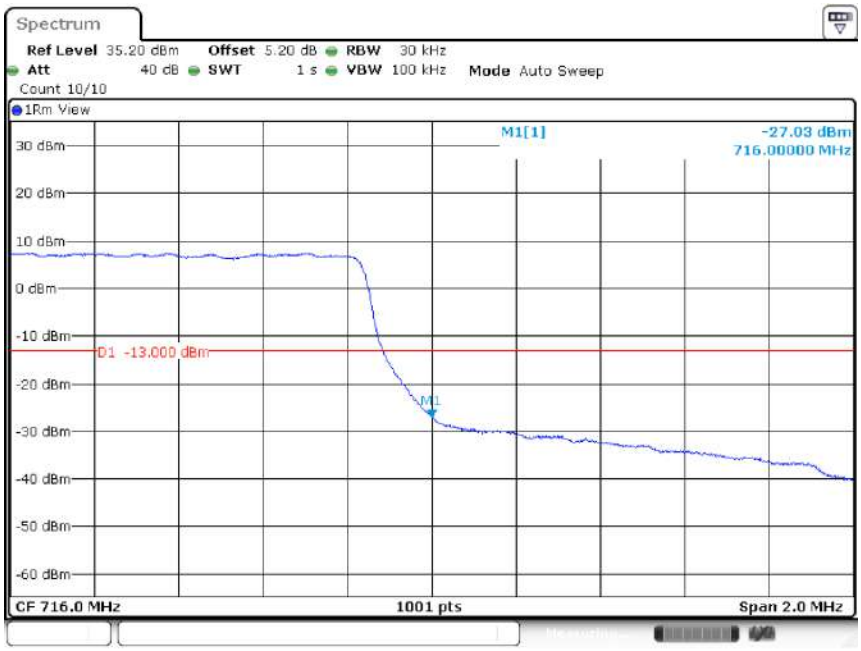
Band12-1.4MHz-16QAM-23173-6RB#0



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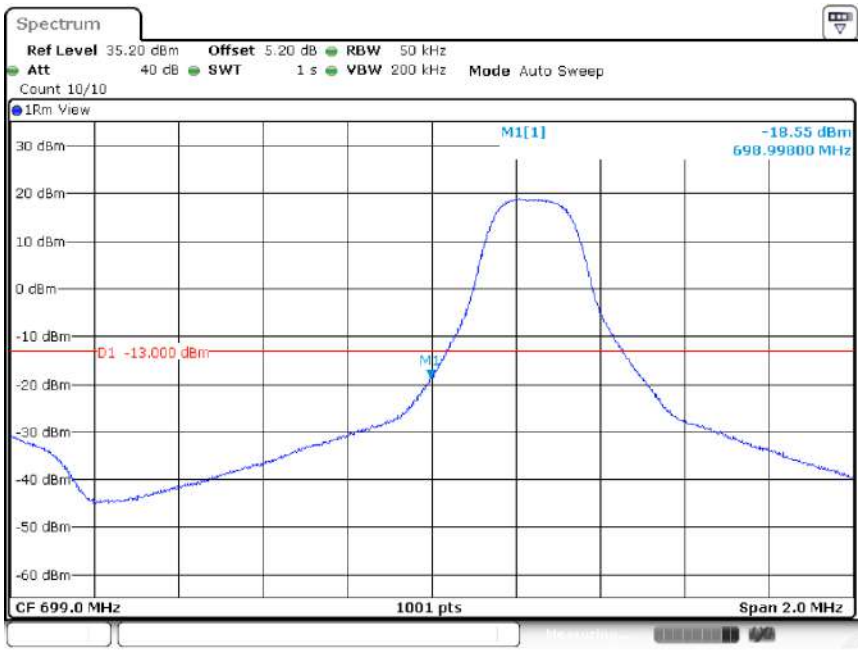
Band12-3MHz-QPSK-23025-1RB#0



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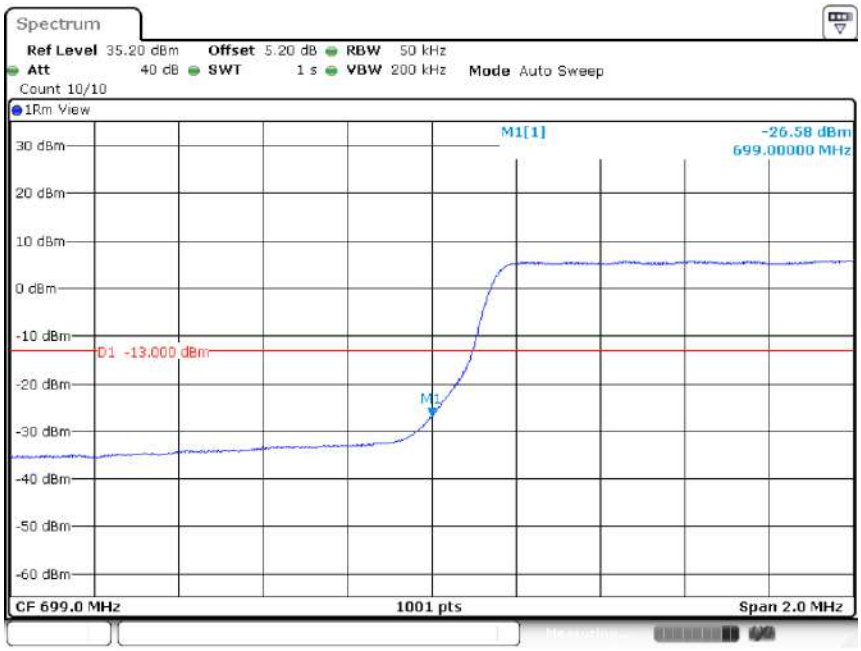
Band12-3MHz-QPSK-23025-15RB#0



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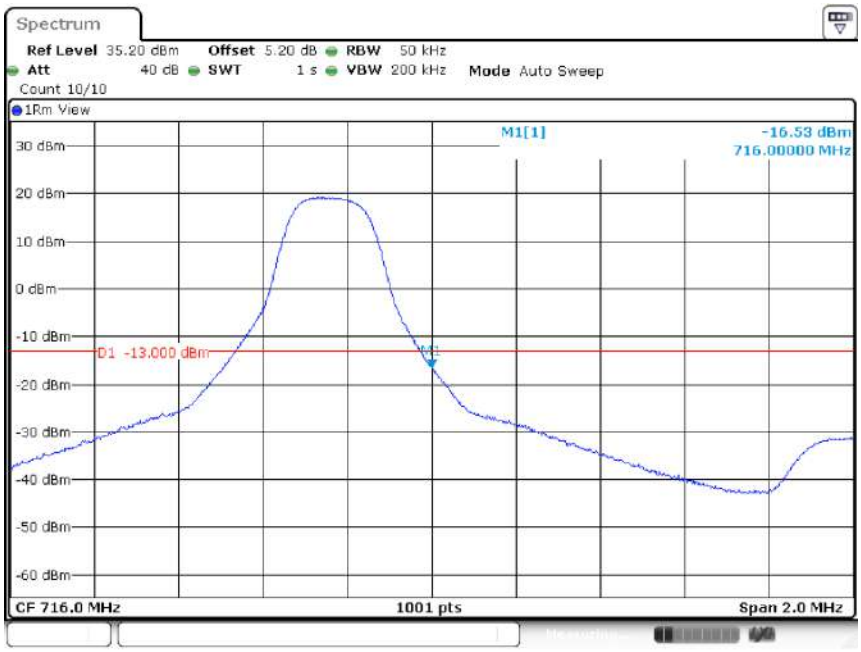
Band12-3MHz-QPSK-23165-1RB#14



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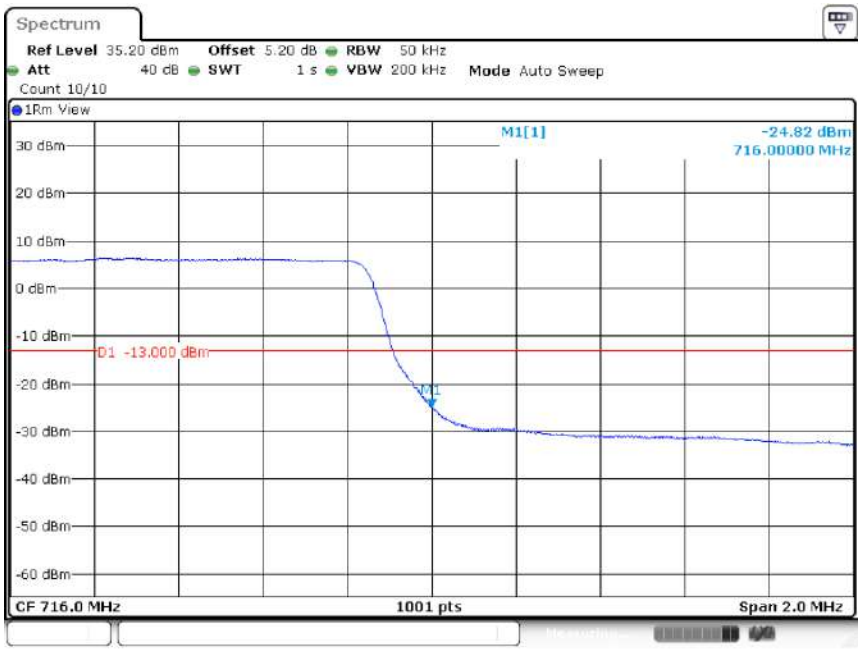

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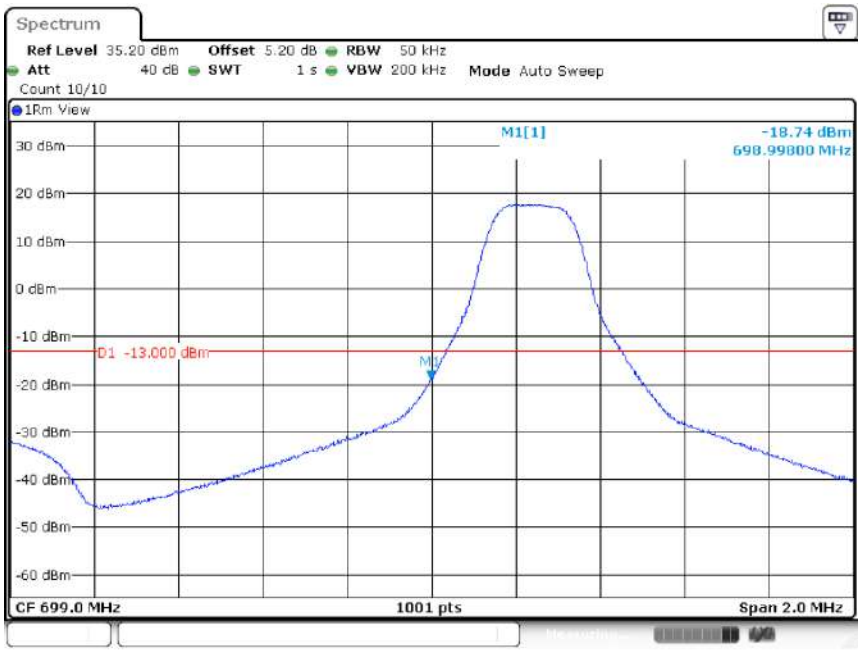

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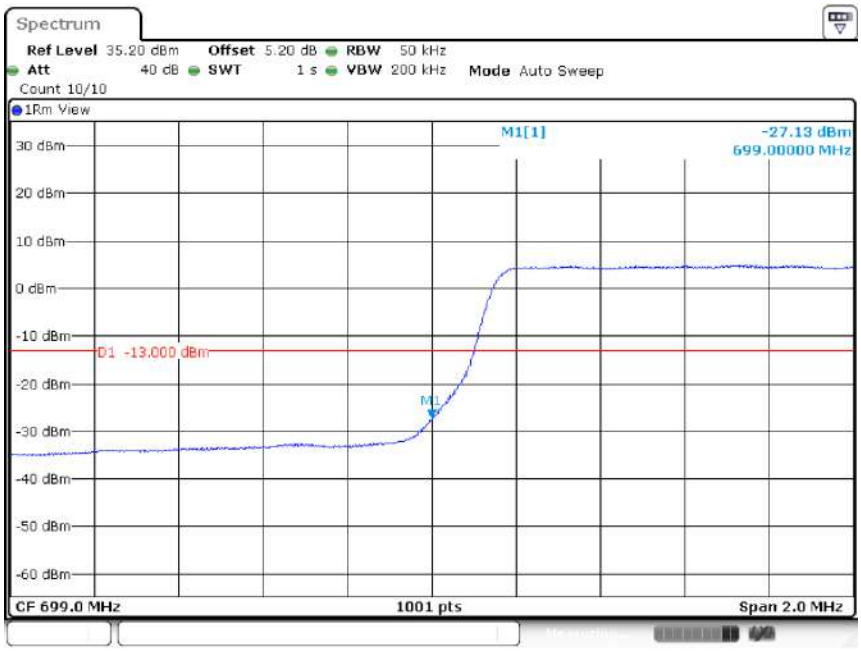

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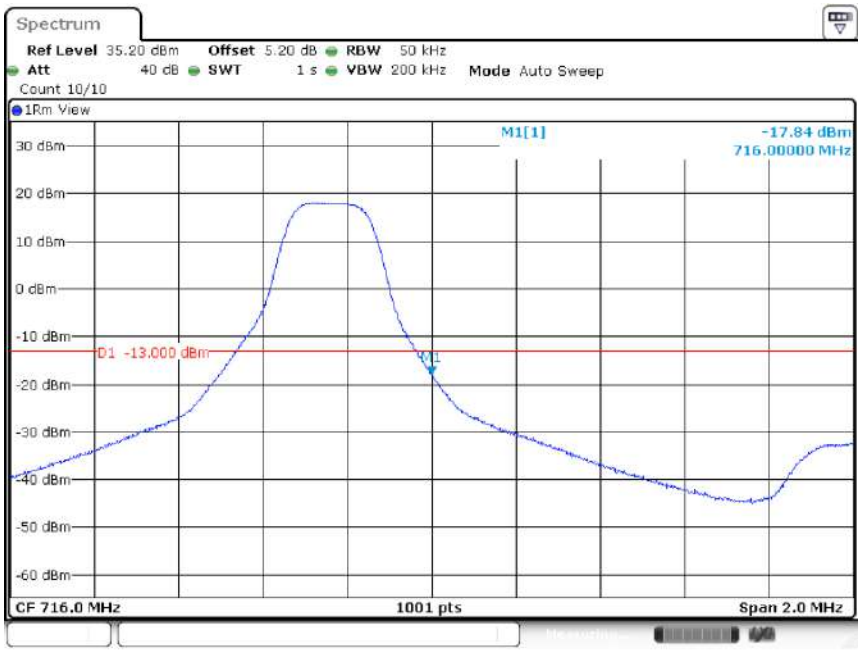
Band12-3MHz-16QAM-23165-1RB#14



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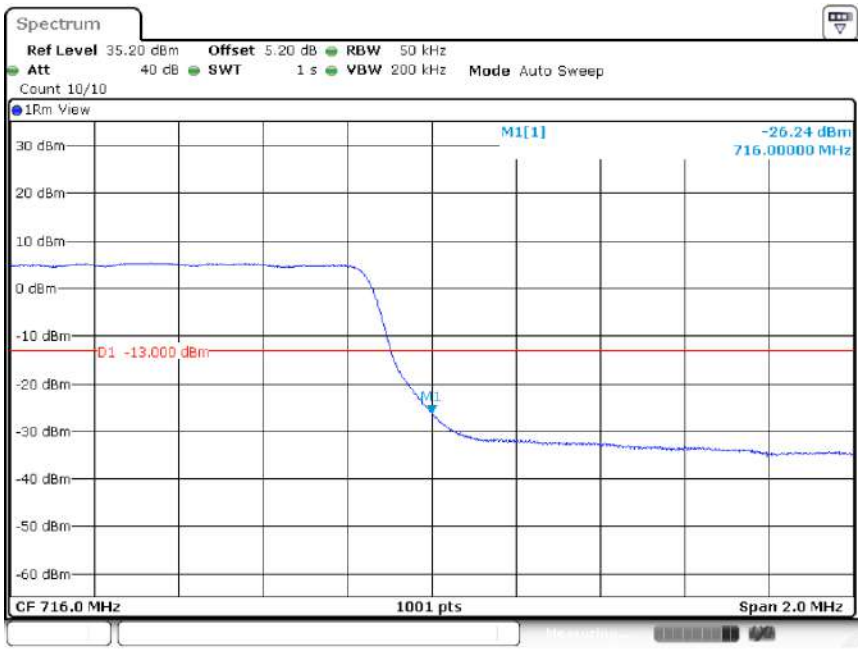
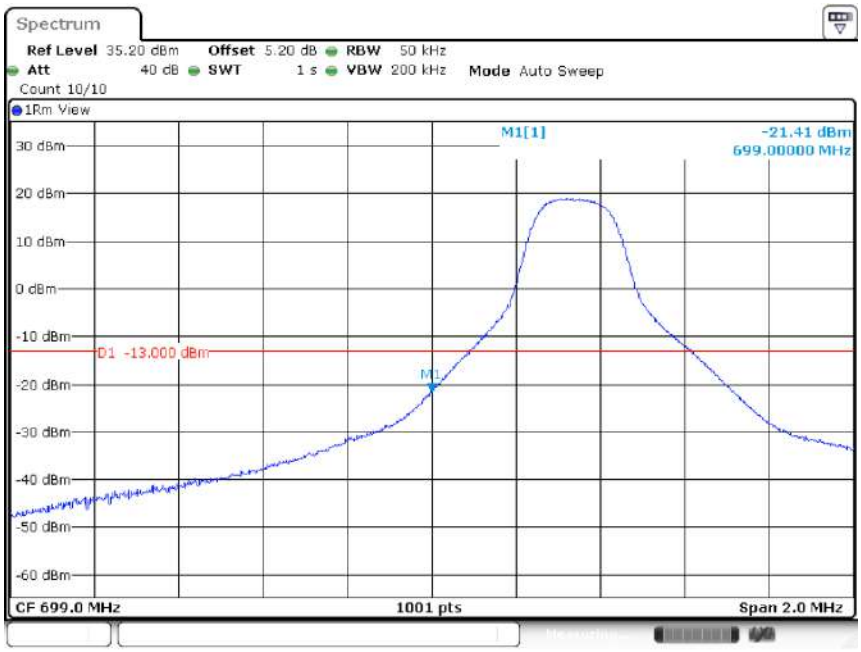


Date: 29.JAN.2021 14:29:11

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



Date: 29.JAN.2021 14:29:36

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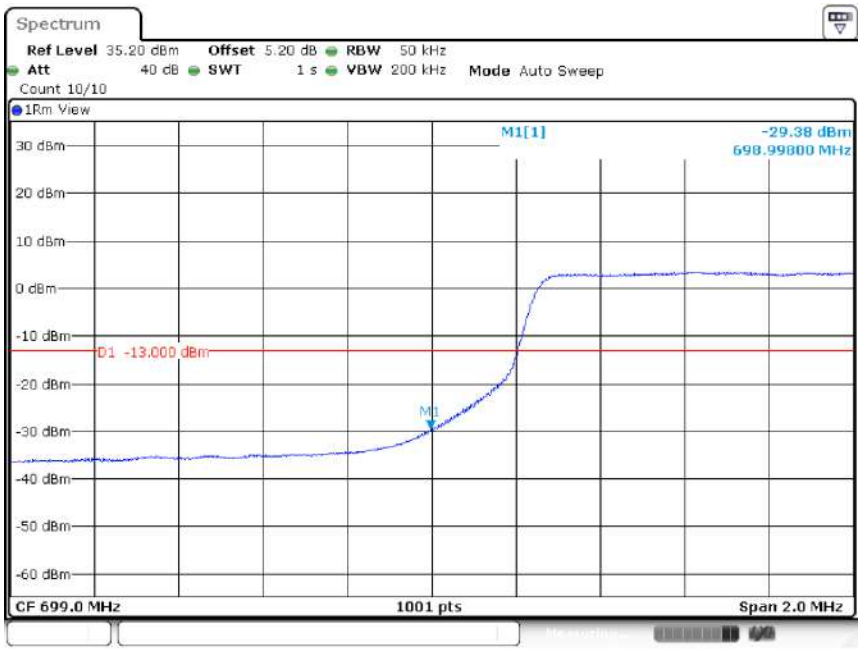
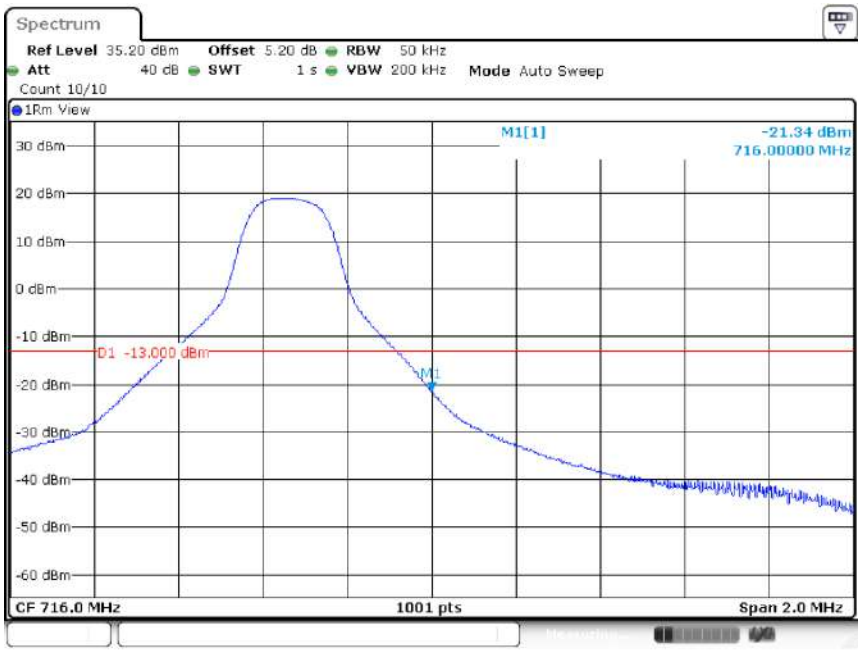
Band12-5MHz-QPSK-23035-25RB#0



Date: 29.JAN.2021 14:30:18

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



Date: 29.JAN.2021 14:31:03

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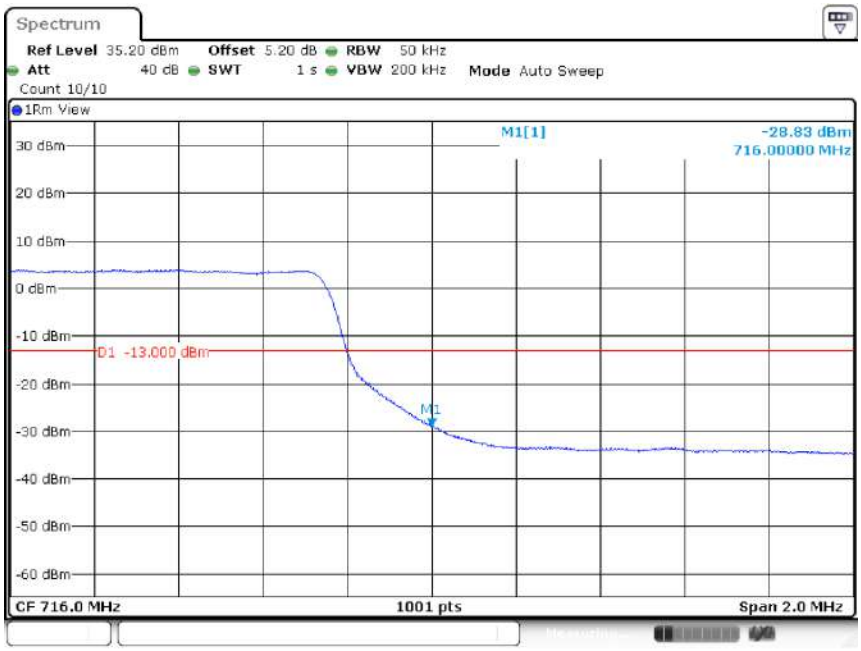
Band12-5MHz-QPSK-23155-25RB#0



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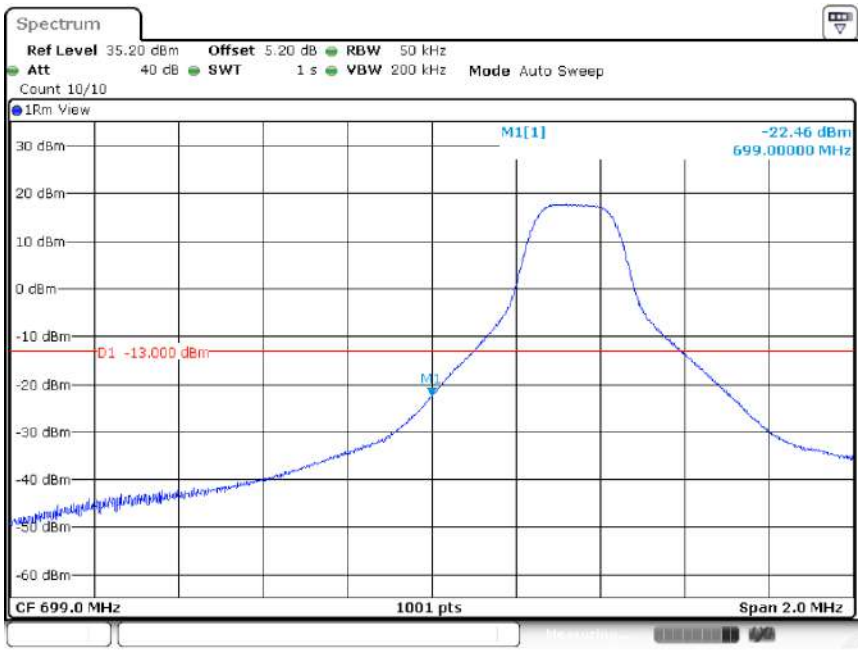

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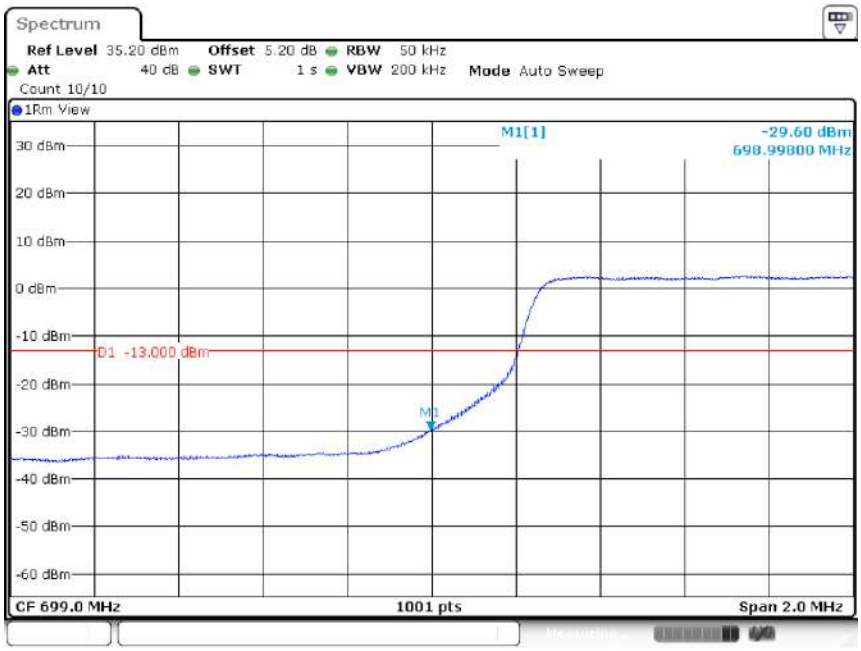
Band12-5MHz-16QAM-23035-25RB#0



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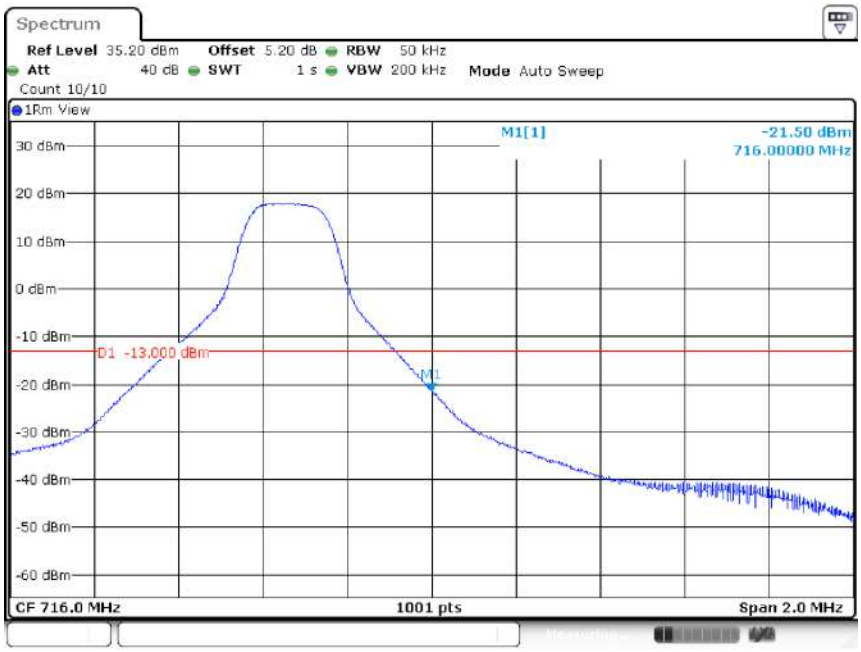
Band12-5MHz-16QAM-23155-1RB#24



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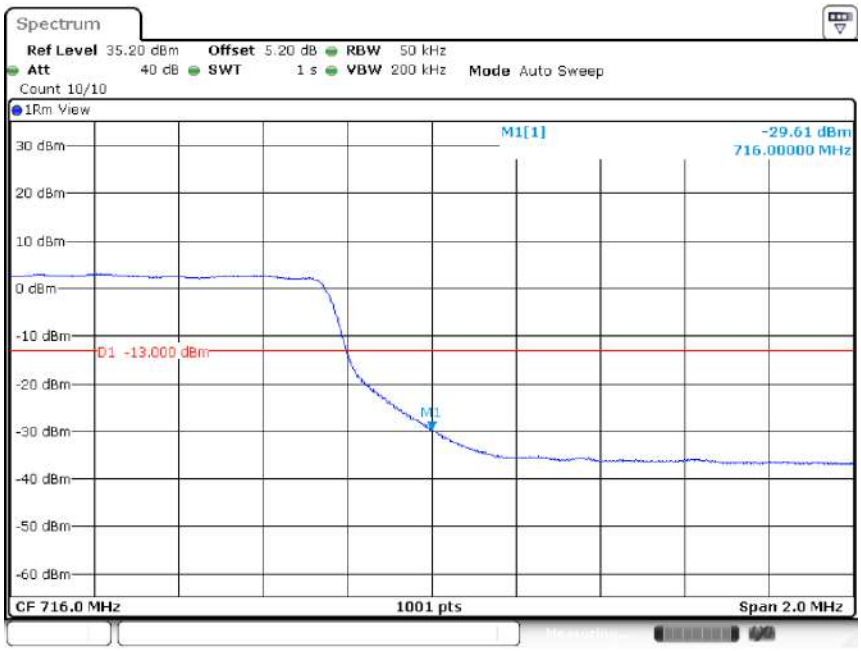
Band12-5MHz-16QAM-23155-25RB#0



Date: 29.JAN.2021 14:32:05

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

Date: 29.JAN.2021 14:32:31

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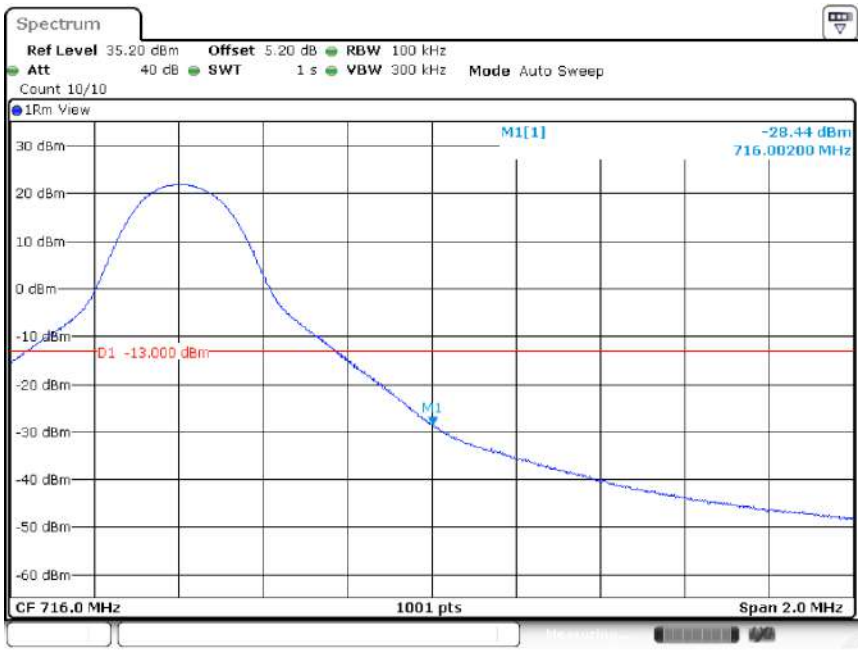
Band12-10MHz-QPSK-23060-50RB#0

Date: 29.JAN.2021 14:33:12

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



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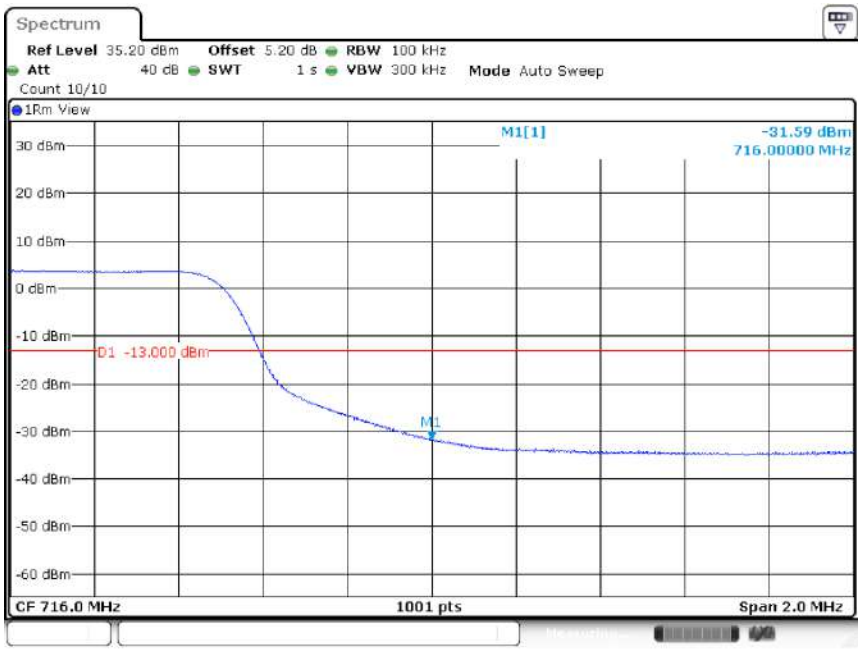
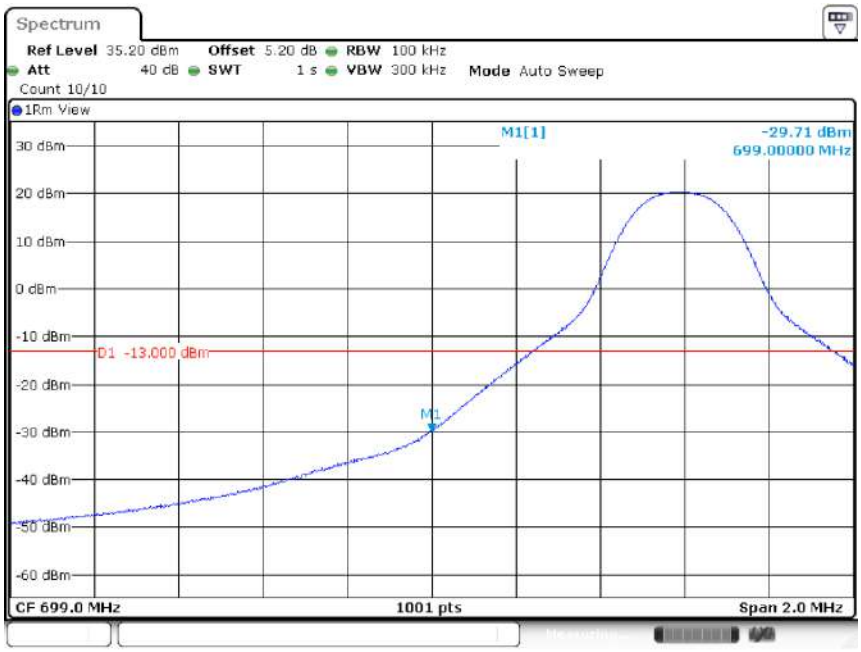
Band12-10MHz-QPSK-23130-50RB#0



Date: 29.JAN.2021 14:34:39

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



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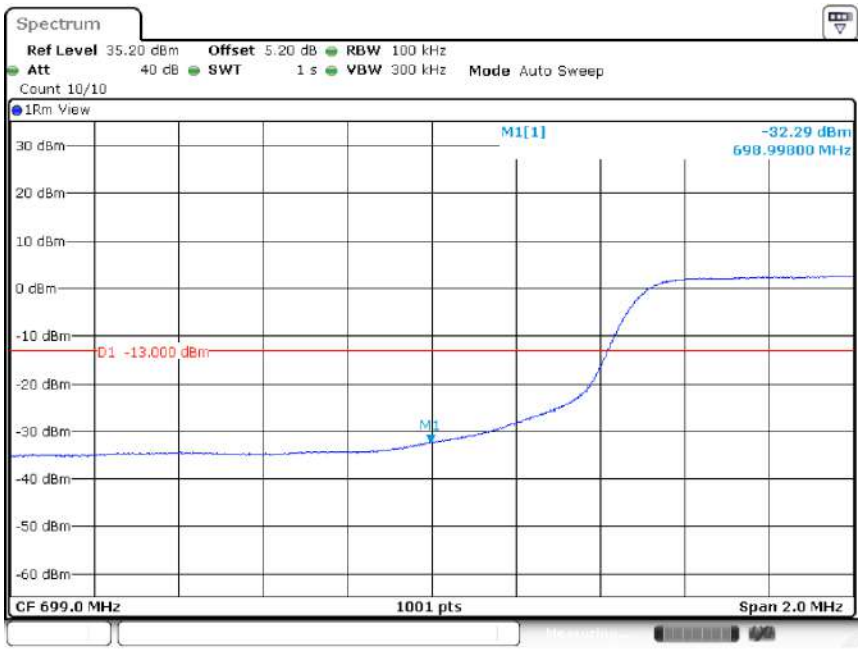
Band12-10MHz-16QAM-23060-50RB#0



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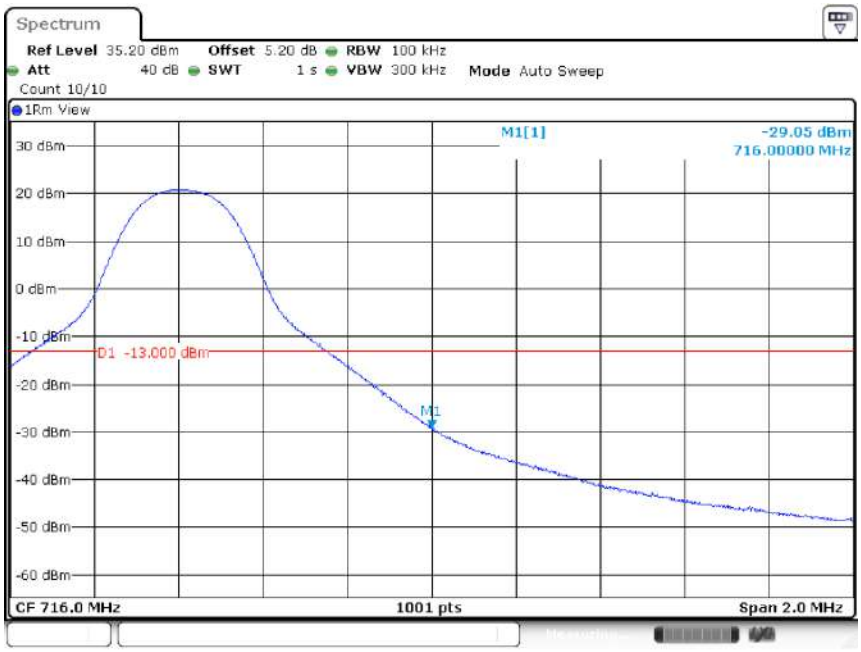
Band12-10MHz-16QAM-23130-1RB#49



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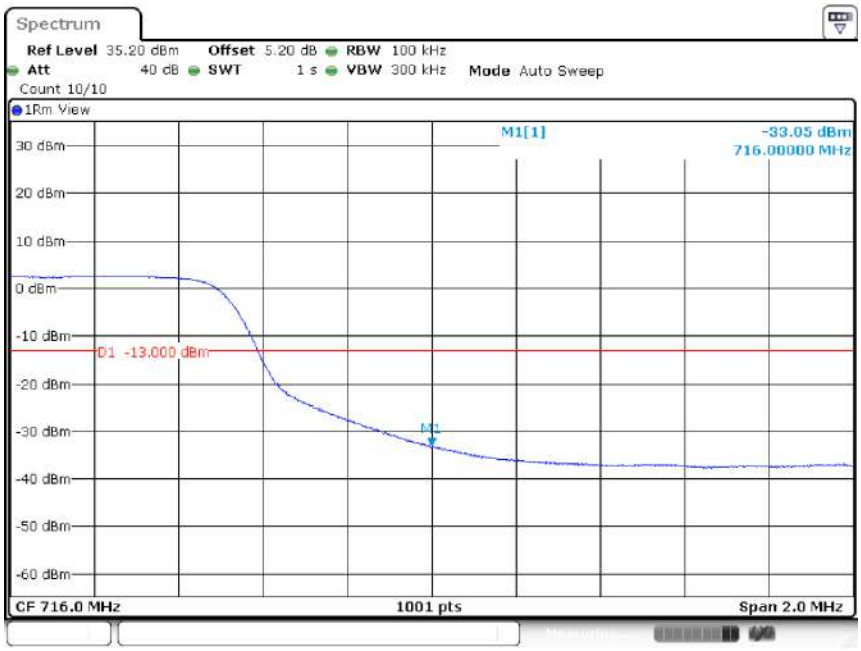
Band12-10MHz-16QAM-23130-50RB#0



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6. Spurious Emission at Antenna Terminal

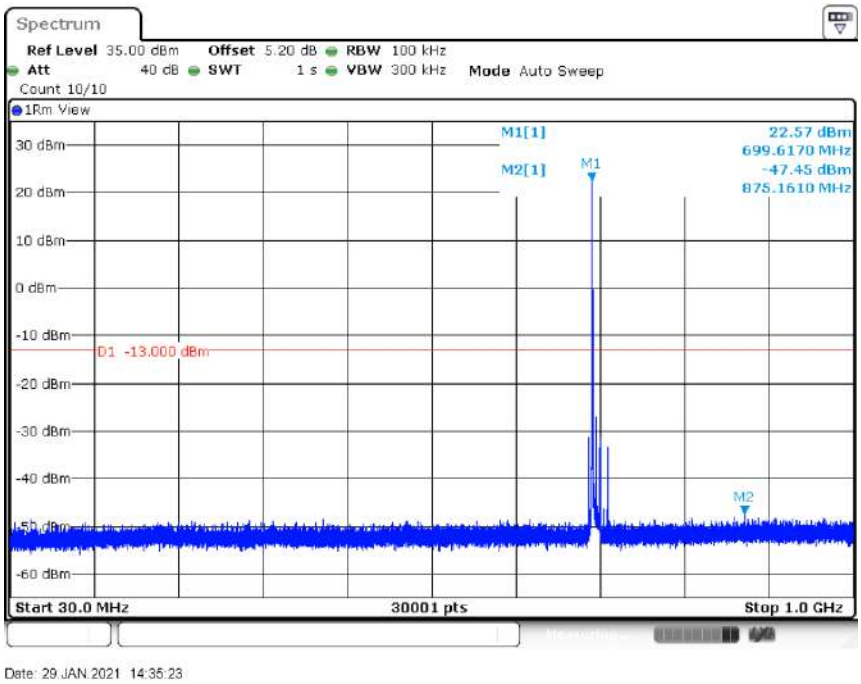
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

6.1. Test Plots

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



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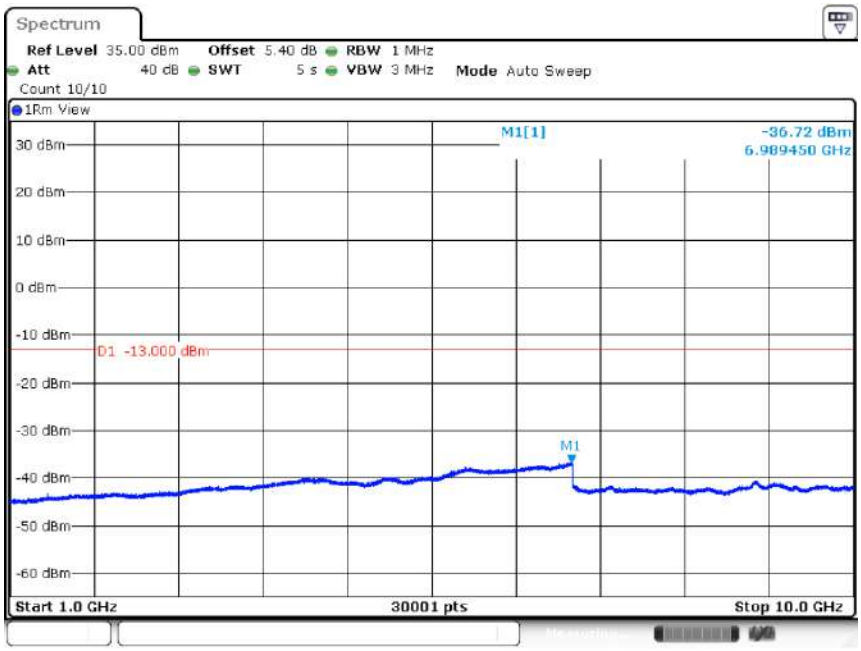
Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



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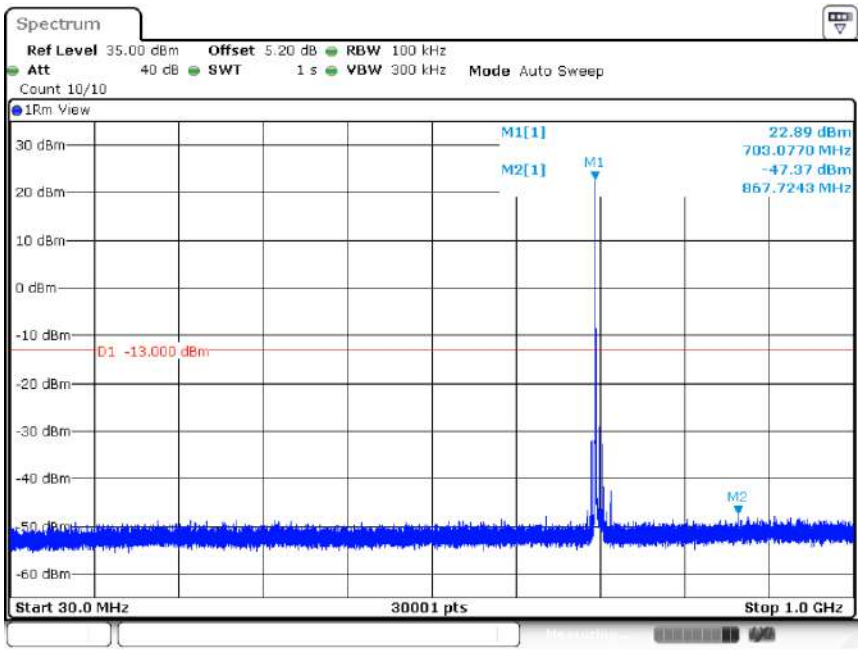
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



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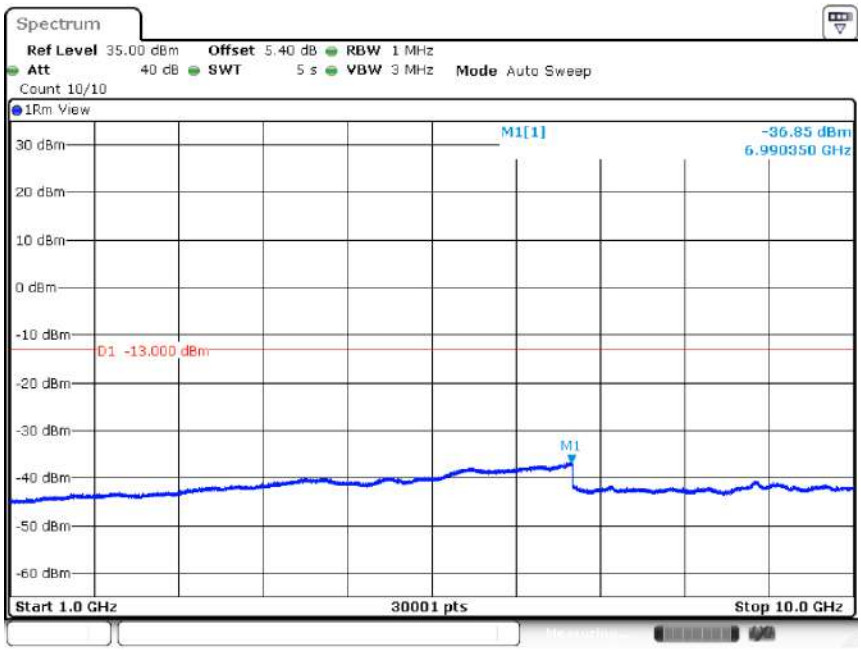
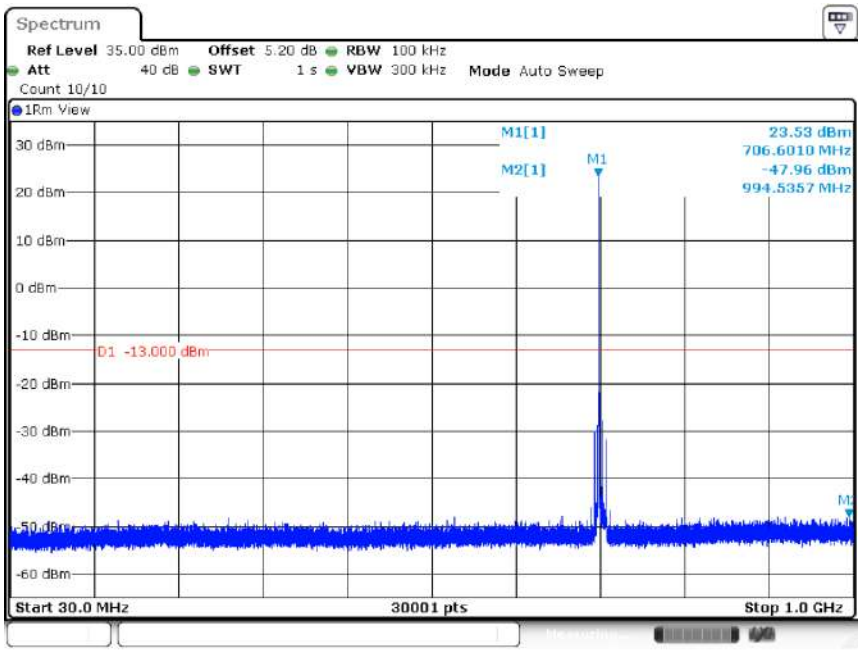
Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



Date: 29.JAN.2021 14:39:25

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



Date: 29.JAN.2021 14:41:12

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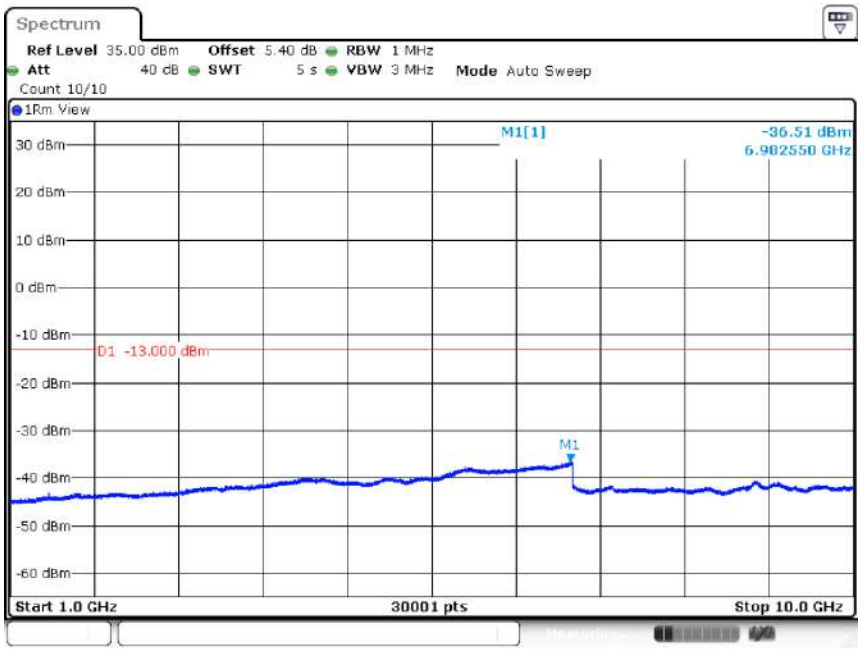
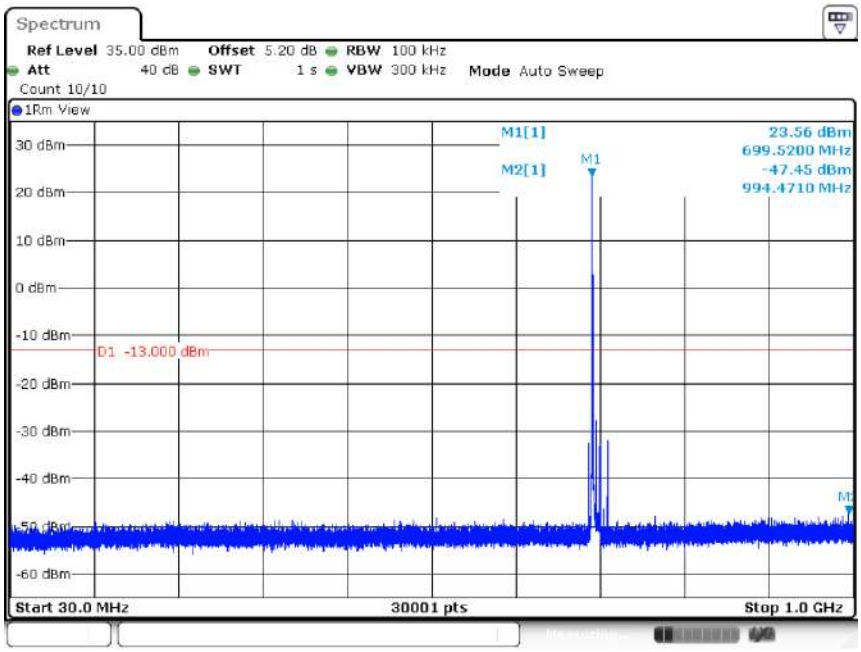


Date: 29.JAN.2021 14:42:19

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



Date: 29.JAN.2021 14:36:50

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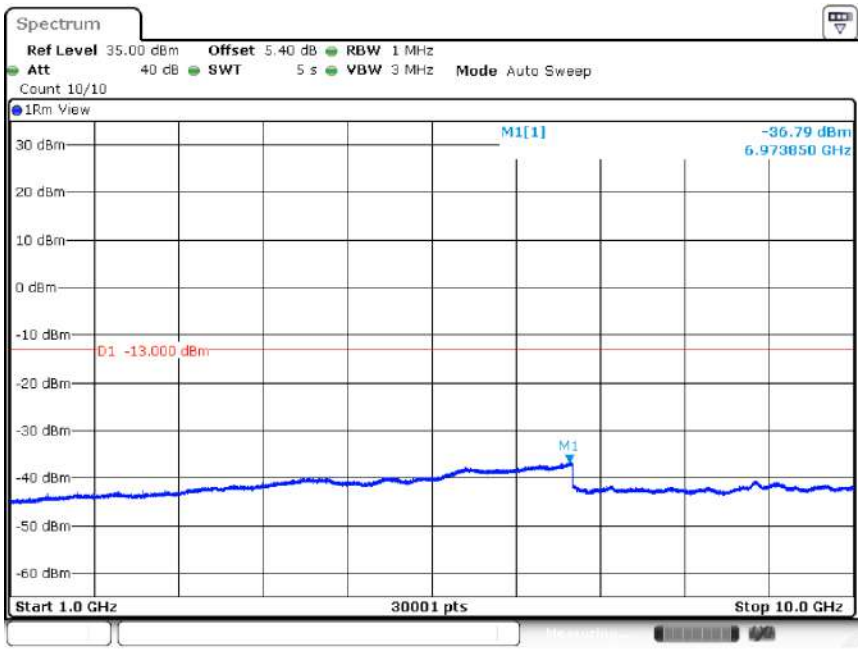
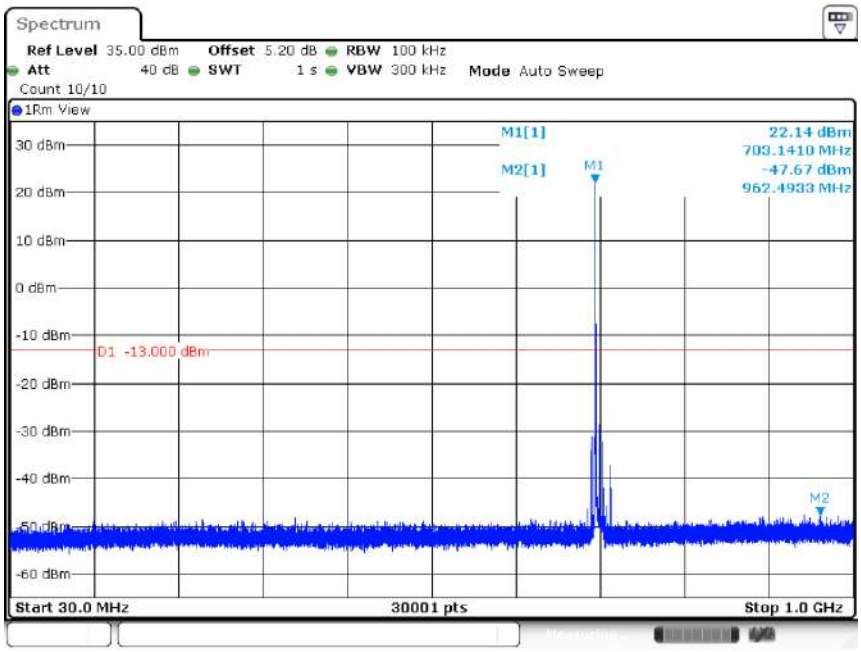
Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz



Date: 29.JAN.2021 14:37:57

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



Date: 29.JAN.2021 14:39:44

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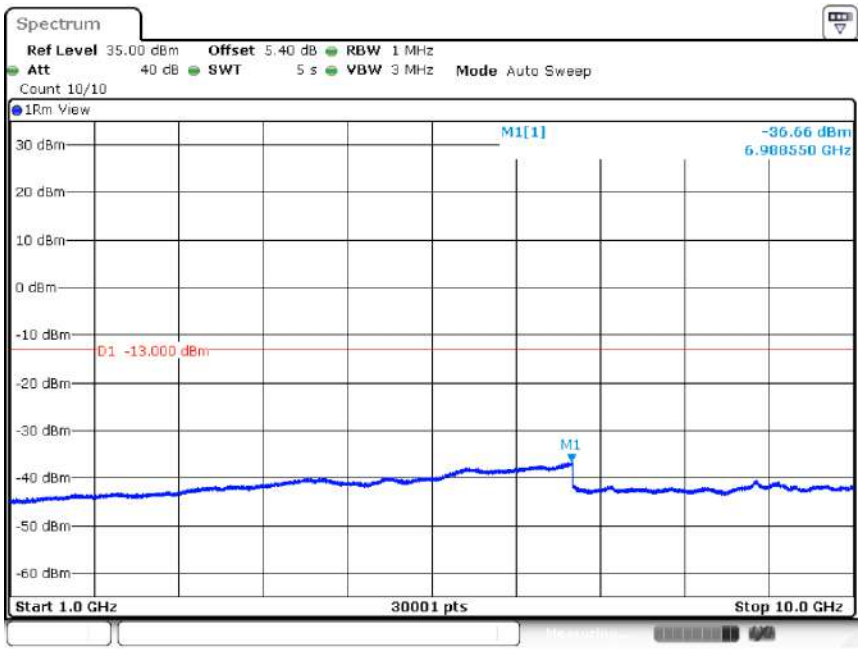
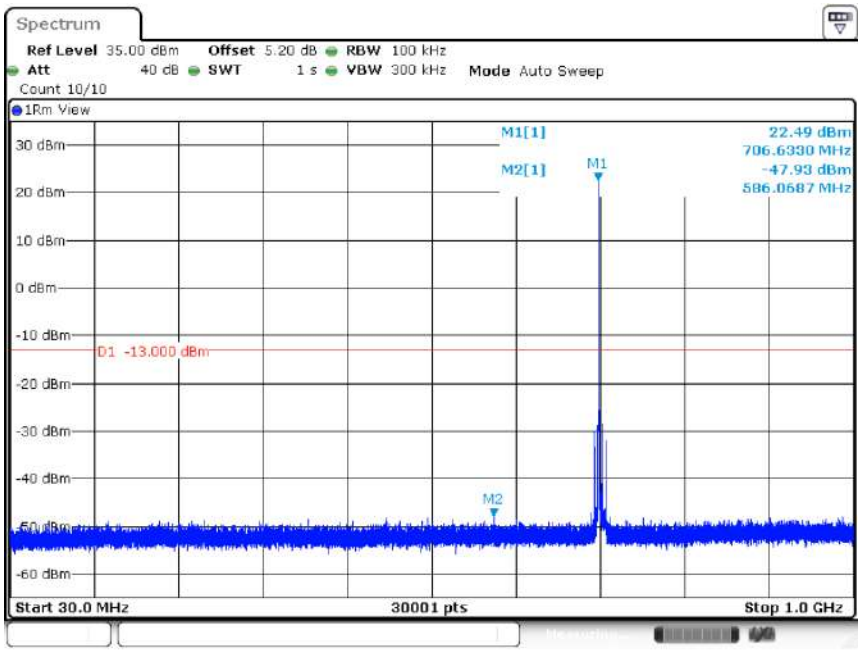
Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Date: 29.JAN.2021 14:40:52

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



Date: 29.JAN.2021 14:42:39

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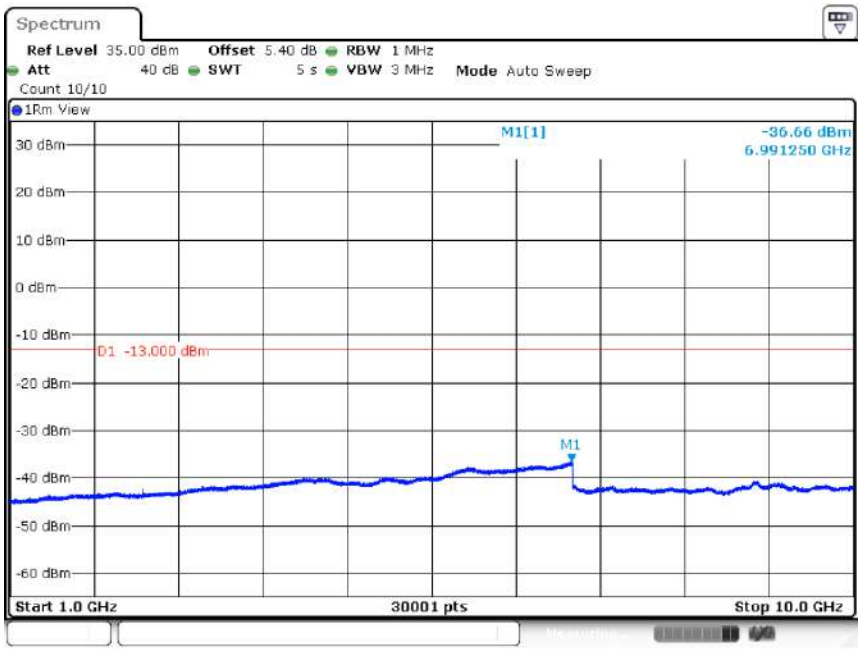

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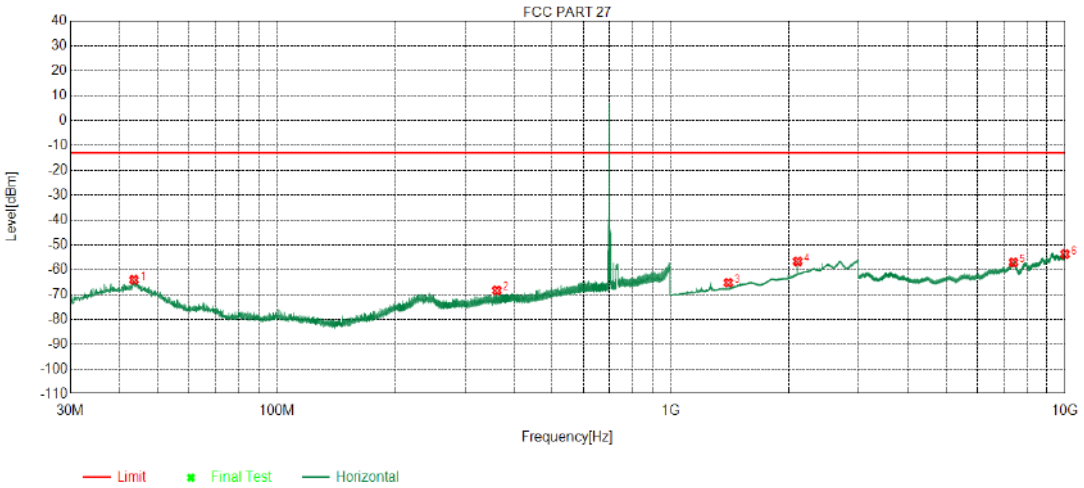
7. Field Strength of Spurious Radiation

7.1. Test Band = LTE_12 _TM1 DOWN ANT

7.1.1. Test Channel = Low Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.4352	-71.05	-64.11	-13.00	51.11	166	283	Horizontal
2	362.0476	-71.04	-68.39	-13.00	55.39	132	155	Horizontal
3	1399.2799	-67.42	-65.29	-13.00	52.29	175	307	Horizontal
4	2099.0198	-64.43	-56.68	-13.00	43.68	262	326	Horizontal
5	7406.8163	-57.01	-57.07	-13.00	44.07	238	303	Horizontal
6	9999.1600	-59.37	-53.79	-13.00	40.79	241	133	Horizontal

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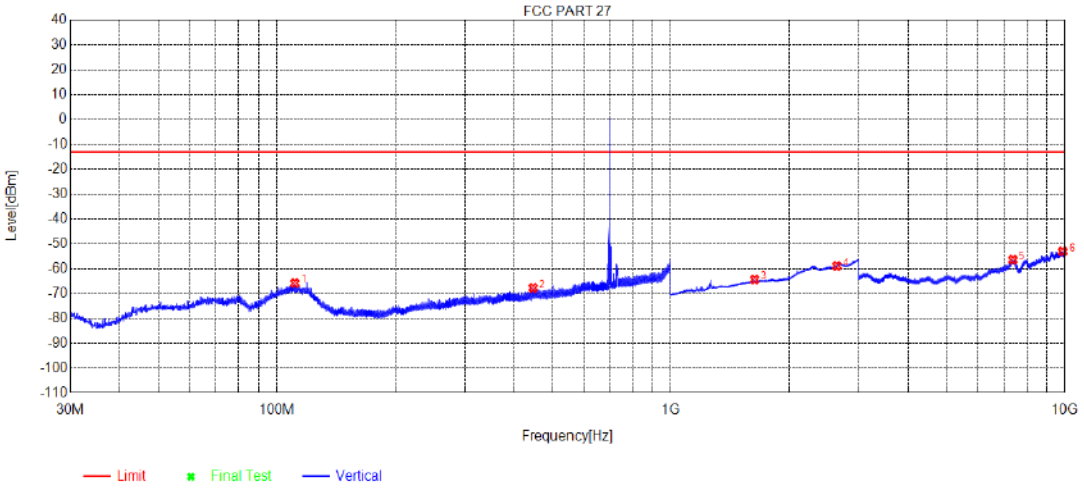
7.2. Test Band = LTE_12 _TM1 DOWN ANT

7.2.1. Test Channel = Low Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	111.1446	-72.19	-65.88	-13.00	52.88	241	47	Vertical
2	447.4604	-71.75	-67.79	-13.00	54.79	296	259	Vertical
3	1632.9266	-69.01	-64.39	-13.00	51.39	242	271	Vertical
4	2639.1278	-69.48	-58.94	-13.00	45.94	225	159	Vertical
5	7376.0150	-56.98	-56.44	-13.00	43.44	263	47	Vertical
6	9872.8749	-59.56	-53.14	-13.00	40.14	274	196	Vertical

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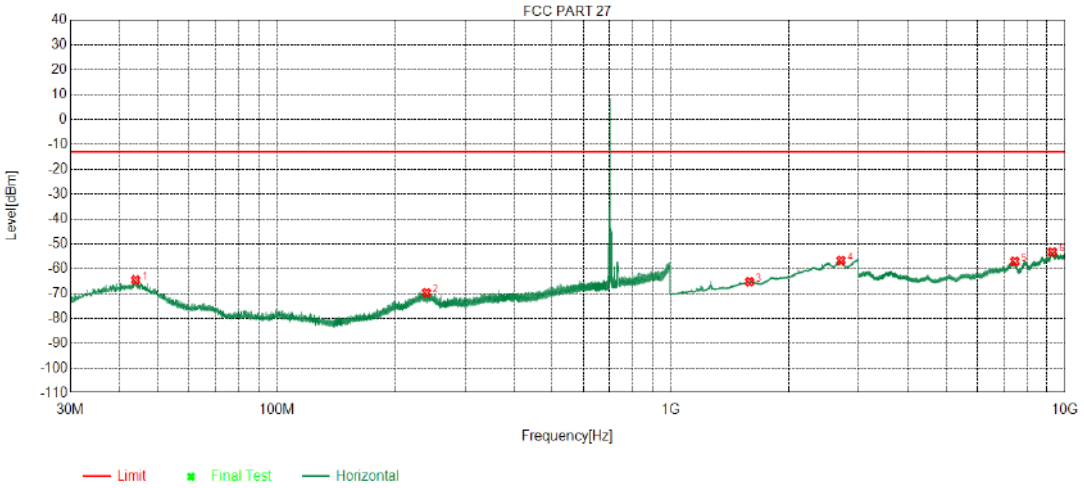
7.3. Test Band = LTE_12 _TM1 DOWN ANT

7.3.1. Test Channel = Mid Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.8717	-71.53	-64.57	-13.00	51.57	175	95	Horizontal
2	240.1125	-72.49	-69.70	-13.00	56.70	166	95	Horizontal
3	1584.5169	-69.68	-65.30	-13.00	52.30	132	243	Horizontal
4	2703.5407	-69.55	-56.72	-13.00	43.72	182	209	Horizontal
5	7465.0586	-57.07	-57.09	-13.00	44.09	246	137	Horizontal
6	9294.9318	-59.20	-53.34	-13.00	40.34	288	180	Horizontal

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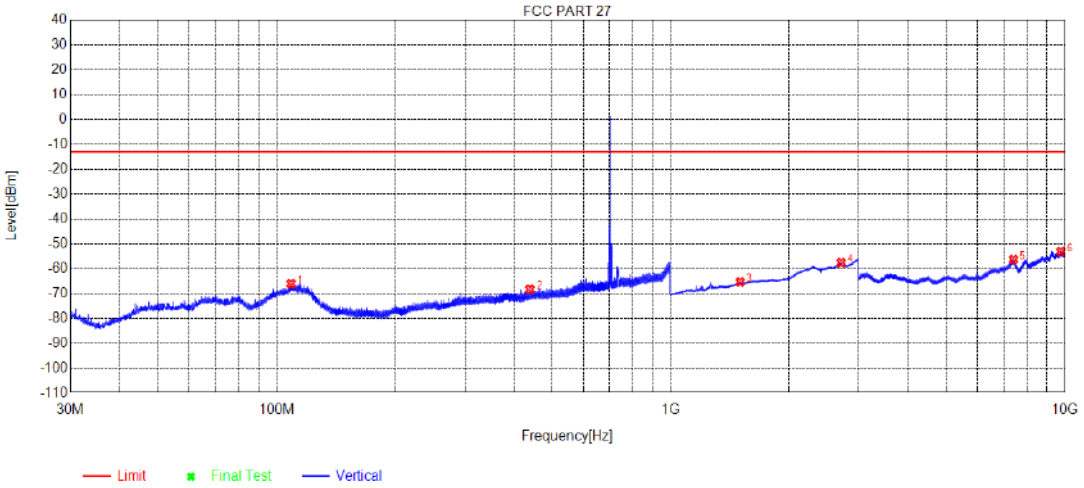
7.4. Test Band = LTE_12 _TM1 DOWN ANT

7.4.1. Test Channel = Mid Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	108.7194	-72.16	-66.05	-13.00	53.05	332	246	Vertical
2	439.6515	-72.08	-68.35	-13.00	55.35	217	117	Vertical
3	1500.1000	-68.97	-65.36	-13.00	52.36	296	290	Vertical
4	2706.7413	-69.21	-57.60	-13.00	44.60	242	0	Vertical
5	7409.6164	-56.83	-56.32	-13.00	43.32	266	180	Vertical
6	9751.3501	-59.53	-53.18	-13.00	40.18	178	266	Vertical

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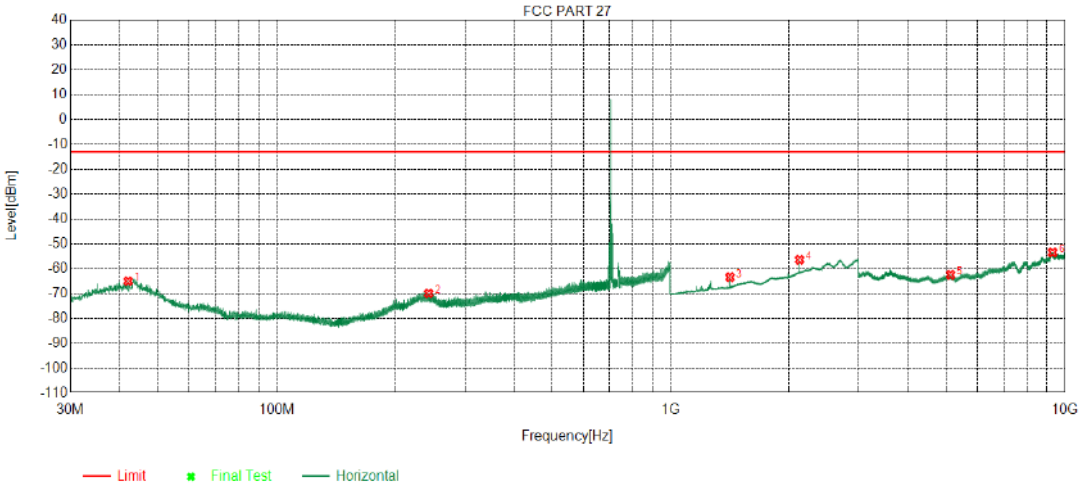
7.5. Test Band = LTE_12 _TM1 DOWN ANT

7.5.1. Test Channel = High Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.9801	-71.91	-65.05	-13.00	52.05	363	351	Horizontal
2	243.3137	-72.71	-69.99	-13.00	56.99	175	175	Horizontal
3	1412.8826	-65.78	-63.47	-13.00	50.47	155	317	Horizontal
4	2119.8240	-64.36	-56.42	-13.00	43.42	169	323	Horizontal
5	5132.0053	-55.84	-62.48	-13.00	49.48	254	219	Horizontal
6	9306.6923	-59.36	-53.48	-13.00	40.48	211	351	Horizontal

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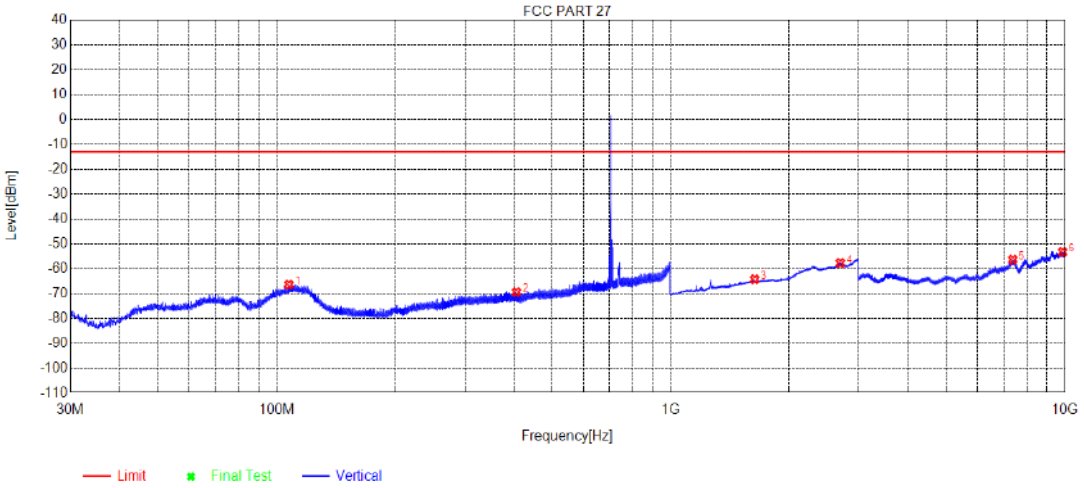
7.6. Test Band = LTE_12 _TM1 DOWN ANT

7.6.1. Test Channel = High Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	107.3614	-72.26	-66.46	-13.00	53.46	266	47	Vertical
2	406.2333	-72.53	-69.43	-13.00	56.43	273	175	Vertical
3	1632.9266	-68.94	-64.32	-13.00	51.32	211	254	Vertical
4	2693.5387	-69.29	-57.74	-13.00	44.74	185	188	Vertical
5	7375.7350	-56.91	-56.37	-13.00	43.37	169	260	Vertical
6	9858.3143	-59.74	-53.29	-13.00	40.29	174	345	Vertical

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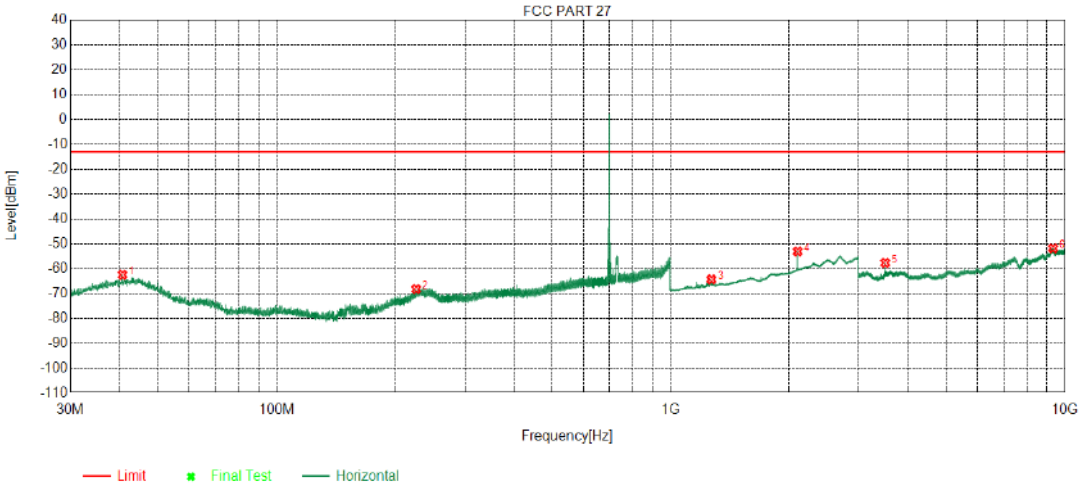
7.7. Test Band = LTE_12 _TM1 UP ANT

7.7.1. Test Channel = Low Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6220	-69.25	-62.46	-13.00	49.46	261	153	Horizontal
2	226.0468	-70.36	-68.24	-13.00	55.24	284	31	Horizontal
3	1267.6535	-65.73	-64.34	-13.00	51.34	299	267	Horizontal
4	2098.6197	-60.82	-53.08	-13.00	40.08	264	159	Horizontal
5	3497.8599	-48.70	-57.67	-13.00	44.67	118	153	Horizontal
6	9332.4533	-57.47	-51.84	-13.00	38.84	158	174	Horizontal

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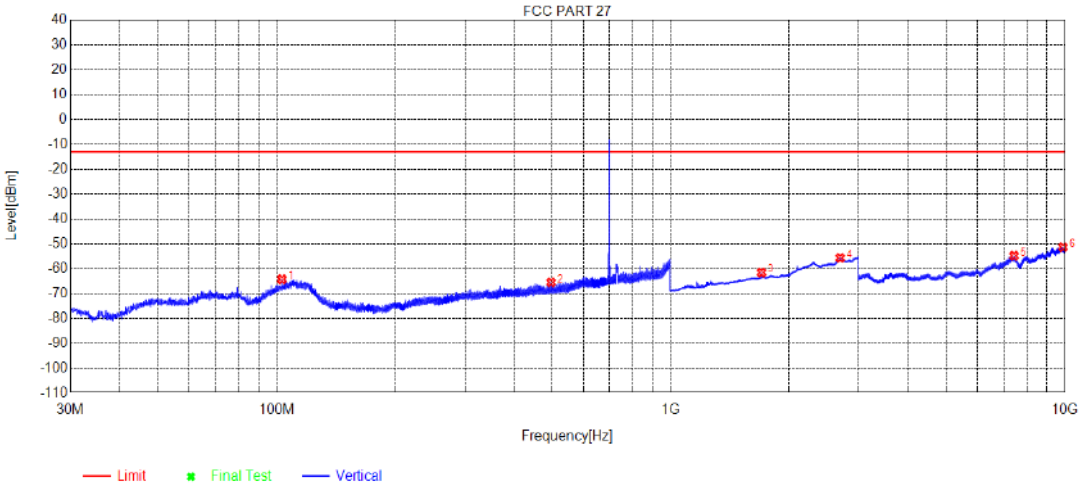
7.8. Test Band = LTE_12 _TM1 UP ANT

7.8.1. Test Channel = Low Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	103.0932	-69.10	-64.30	-13.00	51.30	222	347	Vertical
2	496.6418	-70.07	-65.54	-13.00	52.54	284	294	Vertical
3	1700.1400	-66.44	-61.59	-13.00	48.59	252	23	Vertical
4	2690.7381	-67.18	-55.68	-13.00	42.68	184	242	Vertical
5	7430.0572	-55.25	-54.83	-13.00	41.83	166	93	Vertical
6	9877.9151	-57.79	-51.38	-13.00	38.38	141	45	Vertical

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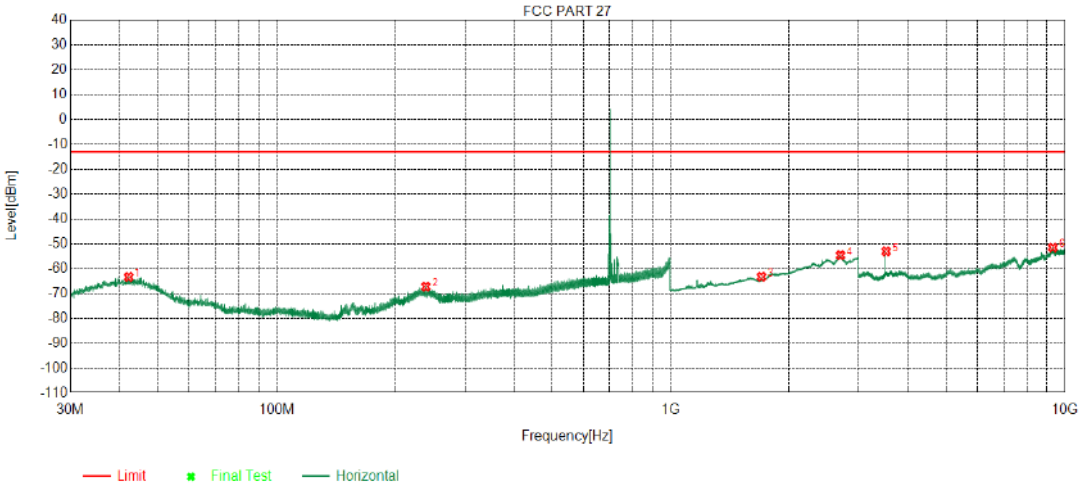
7.9. Test Band = LTE_12 _TM1 UP ANT

7.9.1. Test Channel = Mid Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.1256	-70.26	-63.39	-13.00	50.39	199	266	Horizontal
2	239.3365	-70.05	-67.26	-13.00	54.26	146	221	Horizontal
3	1699.7399	-66.84	-63.29	-13.00	50.29	176	72	Horizontal
4	2695.5391	-67.42	-54.62	-13.00	41.62	242	108	Horizontal
5	3515.7806	-44.24	-53.04	-13.00	40.04	114	154	Horizontal
6	9318.4527	-57.30	-51.54	-13.00	38.54	236	356	Horizontal

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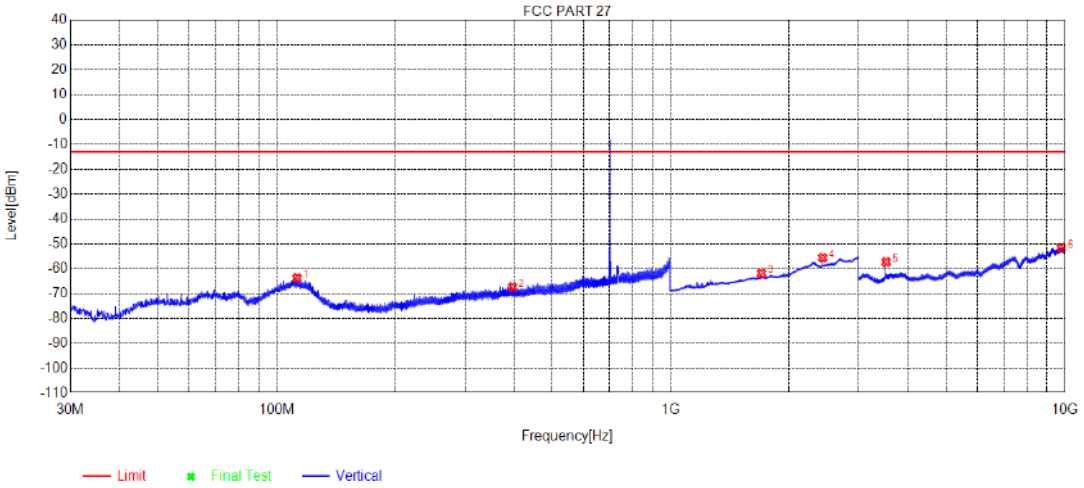
7.10. Test Band = LTE_12 _TM1 UP ANT

7.10.1. Test Channel = Mid Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	112.5511	-70.02	-63.83	-13.00	50.83	287	47	Vertical
2	397.1634	-70.62	-67.48	-13.00	54.48	241	139	Vertical
3	1699.7399	-66.75	-61.90	-13.00	48.90	211	50	Vertical
4	2427.8856	-64.78	-55.63	-13.00	42.63	156	281	Vertical
5	3515.2206	-47.40	-57.31	-13.00	44.31	177	328	Vertical
6	9781.8713	-58.09	-51.62	-13.00	38.62	168	210	Vertical

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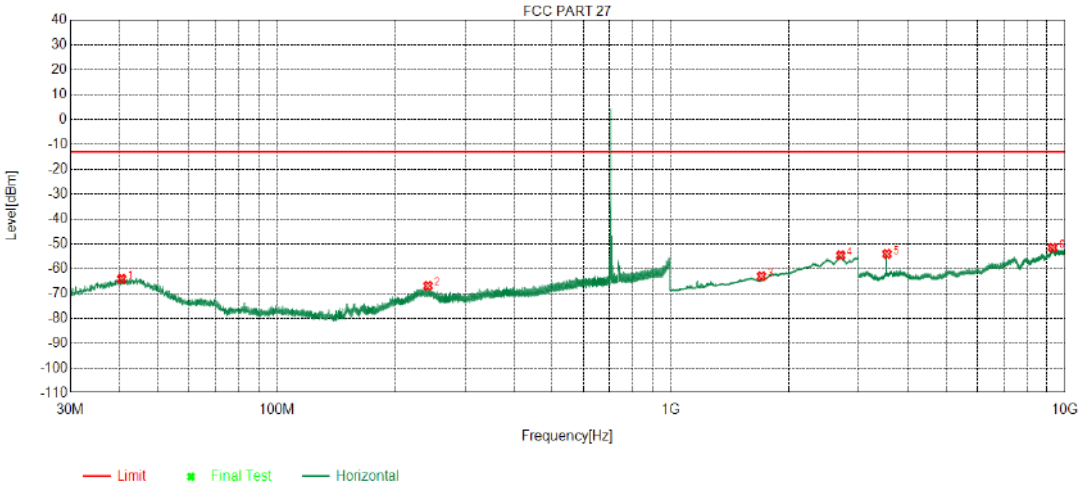
7.11. Test Band = LTE_12 _TM1 UP ANT

7.11.1. Test Channel = High Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.4280	-70.91	-64.13	-13.00	51.13	144	291	Horizontal
2	242.3436	-69.68	-66.94	-13.00	53.94	121	314	Horizontal
3	1699.7399	-66.64	-63.09	-13.00	50.09	263	283	Horizontal
4	2699.5399	-67.60	-54.68	-13.00	41.68	255	273	Horizontal
5	3533.1413	-45.46	-54.11	-13.00	41.11	268	142	Horizontal
6	9307.5323	-57.45	-51.58	-13.00	38.58	294	334	Horizontal

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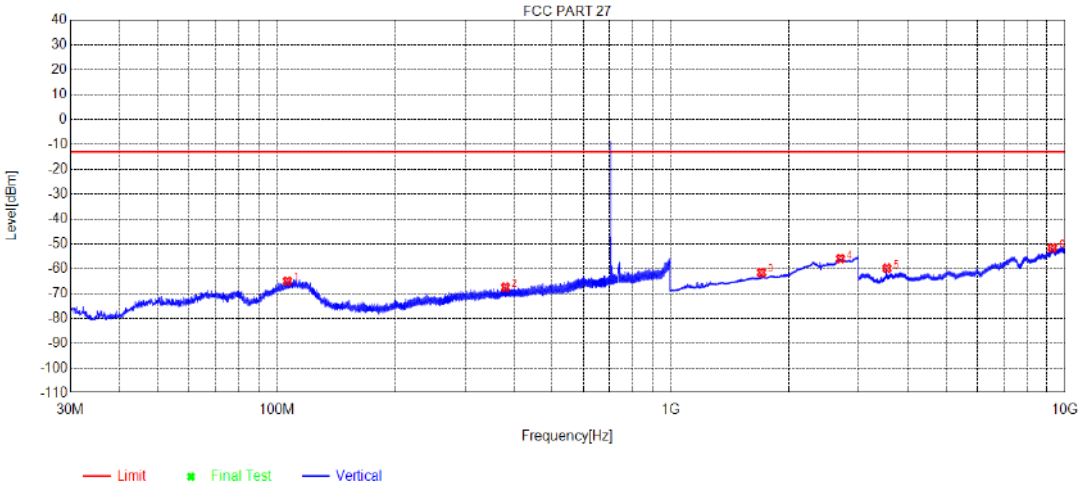
7.12. Test Band = LTE_12 _TM1 UP ANT

7.12.1. Test Channel = High Channel

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	106.3913	-70.60	-65.03	-13.00	52.03	161	8	Vertical
2	380.9635	-70.81	-67.55	-13.00	54.55	284	321	Vertical
3	1700.1400	-66.45	-61.60	-13.00	48.60	221	290	Vertical
4	2695.5391	-67.60	-56.01	-13.00	43.01	231	322	Vertical
5	3532.8613	-50.12	-59.86	-13.00	46.86	184	203	Vertical
6	9295.7718	-57.69	-51.65	-13.00	38.65	269	255	Vertical

Remark:

1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

2 The disturbance above 18G and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.

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8. Frequency Stability

8.1. Frequency Vs 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	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	4.00	0.005682	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	0.90	0.001278	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	1.80	0.002544	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.60	0.000848	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	0.60	0.000844	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-1.90	-0.002672	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-1.10	-0.001547	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	3.10	0.004403	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-1.40	-0.001989	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	2.60	0.003693	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	0.50	0.000707	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	2.00	0.002827	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	1.80	0.002544	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-1.80	-0.002532	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-0.20	-0.000281	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-1.30	-0.001828	±2.5	PASS

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8.2. Frequency Vs 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	-0.70	-0.000994	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-0.50	-0.000710	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-0.90	-0.001278	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-0.90	-0.001278	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	1.50	0.002131	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	0.80	0.001136	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-1.30	-0.001847	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	0.80	0.001136	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	3.50	0.004947	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	0.10	0.000141	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.70	0.000989	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	0.80	0.001131	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	2.20	0.003110	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-1.80	-0.002544	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	1.40	0.001979	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.10	-0.002968	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-3.10	-0.004360	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-2.40	-0.003376	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-0.30	-0.000422	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.70	-0.003797	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-2.00	-0.002813	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-3.40	-0.004782	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-3.10	-0.004360	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	1.30	0.001828	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-1.20	-0.001705	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-0.80	-0.001136	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	-1.10	-0.001563	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	2.30	0.003267	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	0.40	0.000568	±2.5	PASS

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Band12	10MHz	16QAM	23060	50RB#0	NV	40	1.60	0.002273	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-0.30	-0.000426	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	1.50	0.002120	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	1.70	0.002403	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	4.20	0.005936	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	1.50	0.002120	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-0.70	-0.000989	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-0.60	-0.000848	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	0.70	0.000989	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	0.40	0.000563	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-0.50	-0.000703	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-1.30	-0.001828	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-3.00	-0.004219	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	0.20	0.000281	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	0.30	0.000422	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-0.40	-0.000563	±2.5	PASS

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