Appendix B

E-UTRA Band 12

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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	24.24	17.59	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.07	17.42	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.10	17.45	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	24.15	17.50	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#2	24.12	17.47	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	24.07	17.42	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.39	16.74	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.85	17.20	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.80	17.15	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.70	17.05	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.87	17.22	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#2	23.79	17.14	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.78	17.13	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.89	16.24	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.81	17.16	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.68	17.03	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.86	17.21	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.96	17.31	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#2	24.01	17.36	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.87	17.22	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.70	16.05	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.95	15.30	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.84	15.19	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.84	15.19	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#0	21.97	15.32	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#2	21.88	15.23	34.77	PASS
Band12	1.4MHz	64QAM	23017	3RB#3	21.97	15.32	34.77	PASS

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Band12	1.4MHz	64QAM	23017	6RB#0	21.00	14.35	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.90	15.25	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.93	15.28	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.91	15.26	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#0	21.88	15.23	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#2	21.95	15.30	34.77	PASS
Band12	1.4MHz	64QAM	23095	3RB#3	21.96	15.31	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.97	14.32	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.85	15.20	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.91	15.26	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.93	15.28	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#0	21.90	15.25	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#2	21.97	15.32	34.77	PASS
Band12	1.4MHz	64QAM	23173	3RB#3	21.94	15.29	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.95	14.30	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.24	16.59	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.67	17.02	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.31	16.66	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	23.22	16.57	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#2	23.21	16.56	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	23.20	16.55	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.26	15.61	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.29	16.64	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.43	16.78	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.35	16.70	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.93	16.28	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#2	23.05	16.40	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.84	16.19	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.94	15.29	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.90	16.25	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.31	16.66	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.83	16.18	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.69	16.04	34.77	PASS

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Band12	1.4MHz	16QAM	23173	3RB#2	22.76	16.11	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.88	16.23	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.86	15.21	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.46	17.81	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#7	24.06	17.41	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.09	17.44	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	23.07	16.42	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	23.09	16.44	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	23.26	16.61	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.23	16.58	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.78	17.13	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#7	23.74	17.09	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.97	17.32	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.86	16.21	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.76	16.11	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.78	16.13	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.84	16.19	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.80	17.15	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#7	23.69	17.04	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.86	17.21	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.88	16.23	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.93	16.28	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.85	16.20	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.79	16.14	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.90	15.25	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#7	21.84	15.19	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.93	15.28	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#0	21.08	14.43	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#4	21.00	14.35	34.77	PASS
Band12	3MHz	64QAM	23025	8RB#7	20.99	14.34	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	21.06	14.41	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.89	15.24	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#7	21.96	15.31	34.77	PASS

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Band12	3MHz	64QAM	23095	1RB#14	21.97	15.32	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#0	21.04	14.39	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#4	20.99	14.34	34.77	PASS
Band12	3MHz	64QAM	23095	8RB#7	21.07	14.42	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.86	14.21	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.96	15.31	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#7	21.97	15.32	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.96	15.31	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#0	20.95	14.30	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#4	20.89	14.24	34.77	PASS
Band12	3MHz	64QAM	23165	8RB#7	20.85	14.20	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.94	14.29	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.04	16.39	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#7	23.16	16.51	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.84	16.19	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	22.06	15.41	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	22.14	15.49	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	22.07	15.42	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.12	15.47	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.79	16.14	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#7	23.36	16.71	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.49	16.84	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	22.03	15.38	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	22.16	15.51	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	22.08	15.43	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.01	15.36	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.91	16.26	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#7	22.70	16.05	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.92	16.27	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.78	15.13	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.92	15.27	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.75	15.10	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.90	15.25	34.77	PASS

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Band12	5MHz	QPSK	23035	1RB#0	24.08	17.43	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#13	24.28	17.63	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.93	17.28	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	23.18	16.53	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	23.15	16.50	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	23.20	16.55	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.21	16.56	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.82	17.17	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#13	24.78	18.13	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.20	17.55	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.96	16.31	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.85	16.20	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	23.02	16.37	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.11	16.46	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.96	17.31	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#13	23.65	17.00	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.78	17.13	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.83	16.18	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.77	16.12	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.91	16.26	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.93	16.28	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.88	15.23	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#13	21.84	15.19	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.94	15.29	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#0	21.04	14.39	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#6	20.89	14.24	34.77	PASS
Band12	5MHz	64QAM	23035	12RB#13	21.05	14.40	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	20.93	14.28	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	21.92	15.27	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#13	21.96	15.31	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.91	15.26	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#0	21.00	14.35	34.77	PASS
Band12	5MHz	64QAM	23095	12RB#6	20.85	14.20	34.77	PASS

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Band12	5MHz	64QAM	23095	12RB#13	20.93	14.28	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.99	14.34	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.86	15.21	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#13	21.90	15.25	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.96	15.31	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#0	20.87	14.22	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#6	20.99	14.34	34.77	PASS
Band12	5MHz	64QAM	23155	12RB#13	20.85	14.20	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	21.00	14.35	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.56	16.91	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#13	23.38	16.73	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.66	17.01	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	22.31	15.66	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	22.16	15.51	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	22.28	15.63	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.25	15.60	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.18	16.53	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#13	23.73	17.08	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.63	16.98	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	22.16	15.51	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.96	15.31	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.95	15.30	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.01	15.36	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.86	16.21	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#13	22.84	16.19	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.22	16.57	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.93	15.28	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.85	15.20	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	22.02	15.37	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.99	15.34	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.36	17.71	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#25	24.05	17.40	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.61	17.96	34.77	PASS

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Band12	10MHz	QPSK	23060	25RB#0	23.21	16.56	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#13	23.17	16.52	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	23.01	16.36	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.11	16.46	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.36	17.71	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#25	24.49	17.84	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.20	17.55	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	23.38	16.73	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#13	23.11	16.46	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	23.02	16.37	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.18	16.53	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.62	16.97	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#25	24.38	17.73	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.18	17.53	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	23.06	16.41	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#13	23.06	16.41	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	23.03	16.38	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.90	16.25	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.91	15.26	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#25	21.92	15.27	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.93	15.28	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#0	21.04	14.39	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#13	20.99	14.34	34.77	PASS
Band12	10MHz	64QAM	23060	25RB#25	21.04	14.39	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	21.05	14.40	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.92	15.27	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#25	21.85	15.20	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.86	15.21	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#0	21.01	14.36	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#13	21.08	14.43	34.77	PASS
Band12	10MHz	64QAM	23095	25RB#25	20.98	14.33	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.96	14.31	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.95	15.30	34.77	PASS

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Band12	10MHz	64QAM	23130	1RB#25	21.89	15.24	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.90	15.25	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#0	20.93	14.28	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#13	20.97	14.32	34.77	PASS
Band12	10MHz	64QAM	23130	25RB#25	21.05	14.40	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	21.06	14.41	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.71	17.06	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#25	23.59	16.94	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	24.22	17.57	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	22.37	15.72	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#13	22.33	15.68	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	22.27	15.62	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.21	15.56	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.45	16.80	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#25	24.03	17.38	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.65	17.00	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	22.44	15.79	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#13	22.12	15.47	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	22.05	15.40	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.97	15.32	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.69	17.04	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#25	23.61	16.96	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.85	16.20	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	22.20	15.55	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#13	22.03	15.38	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.98	15.33	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.94	15.29	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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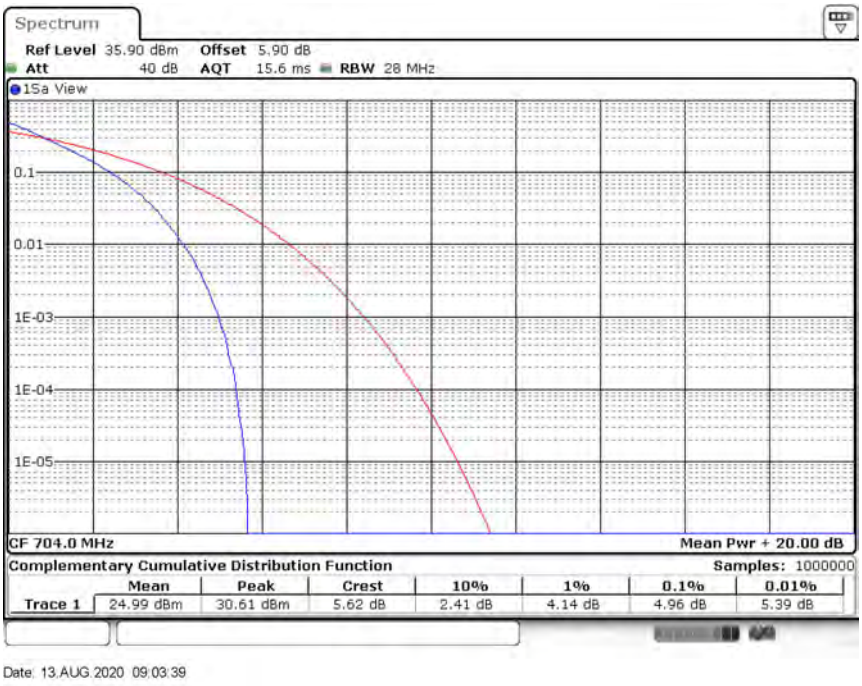
2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	4.96	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.16	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.28	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.29	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.49	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.29	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.80	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.86	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.97	13	PASS

2.2. Test Plots

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



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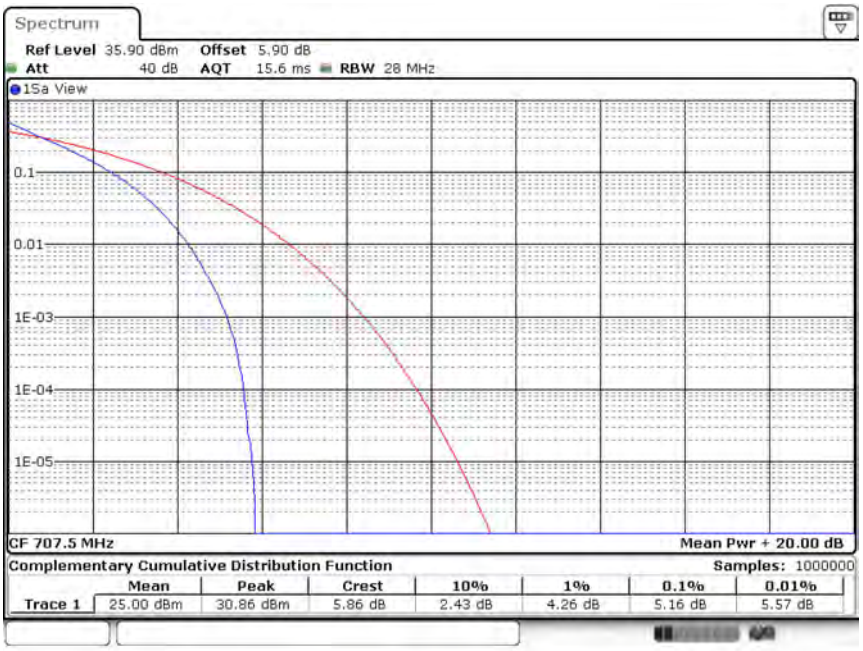
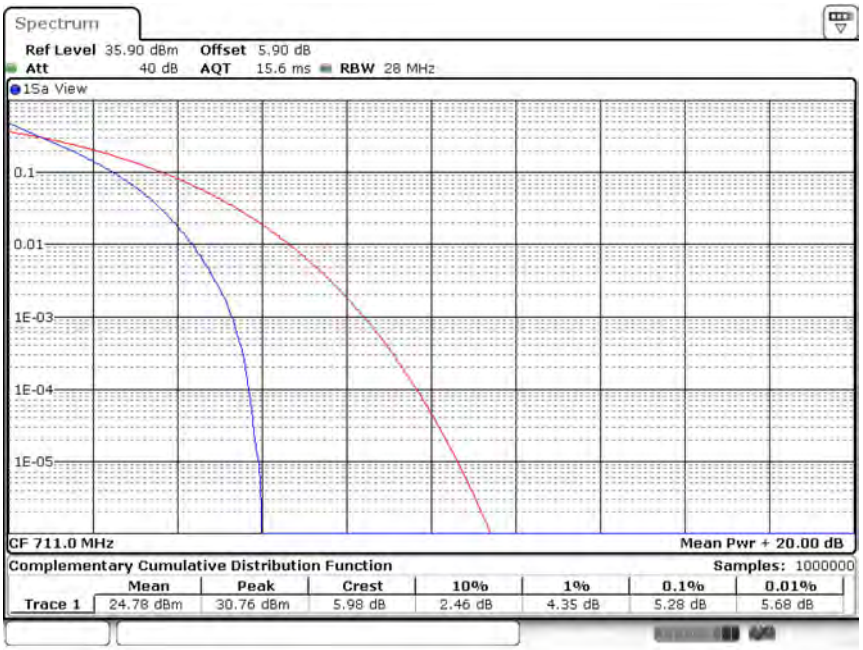


Date: 13.AUG.2020 09:03:55

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



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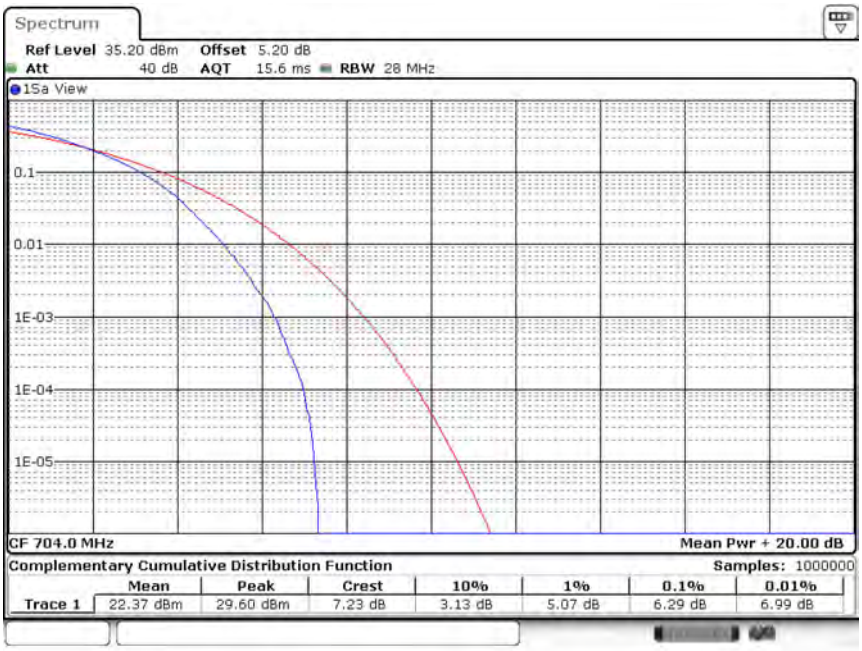
Band12-10MHz-64QAM-23060-50RB#0



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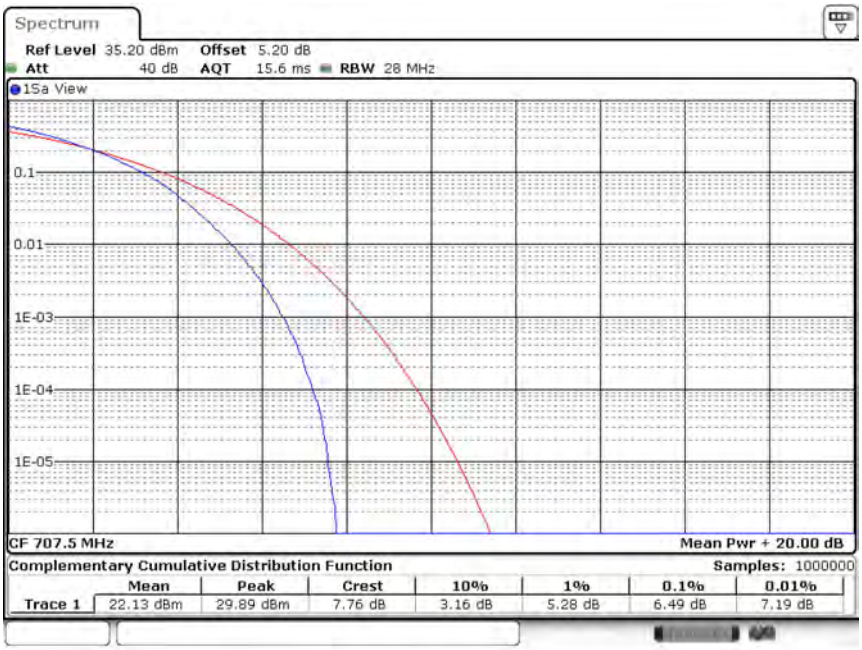
Band12-10MHz-64QAM-23095-50RB#0



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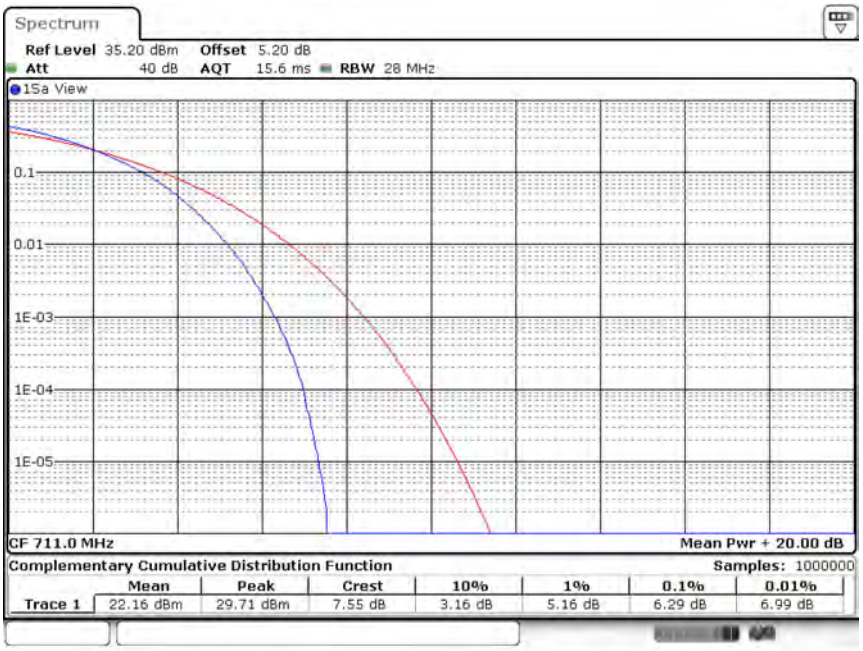
Band12-10MHz-64QAM-23130-50RB#0



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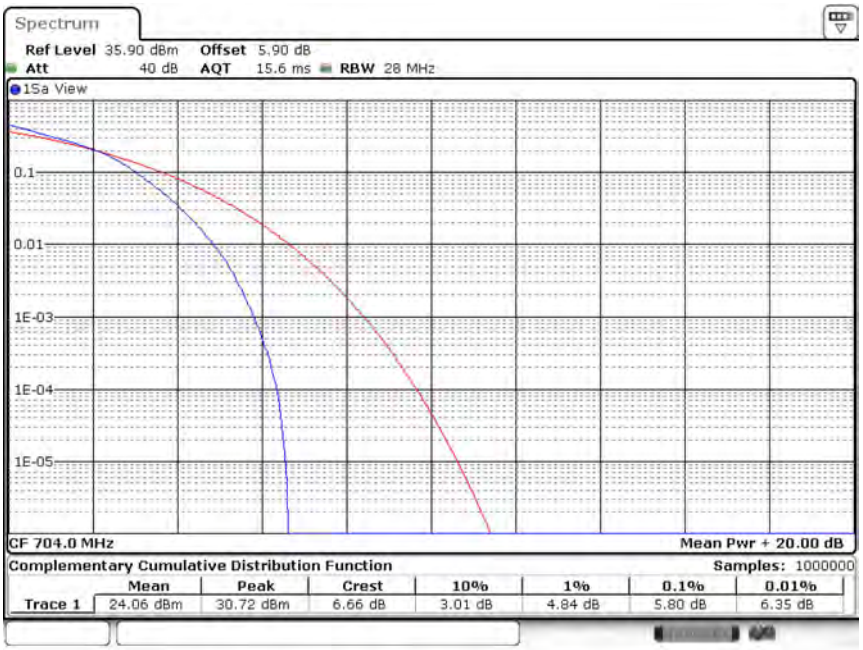

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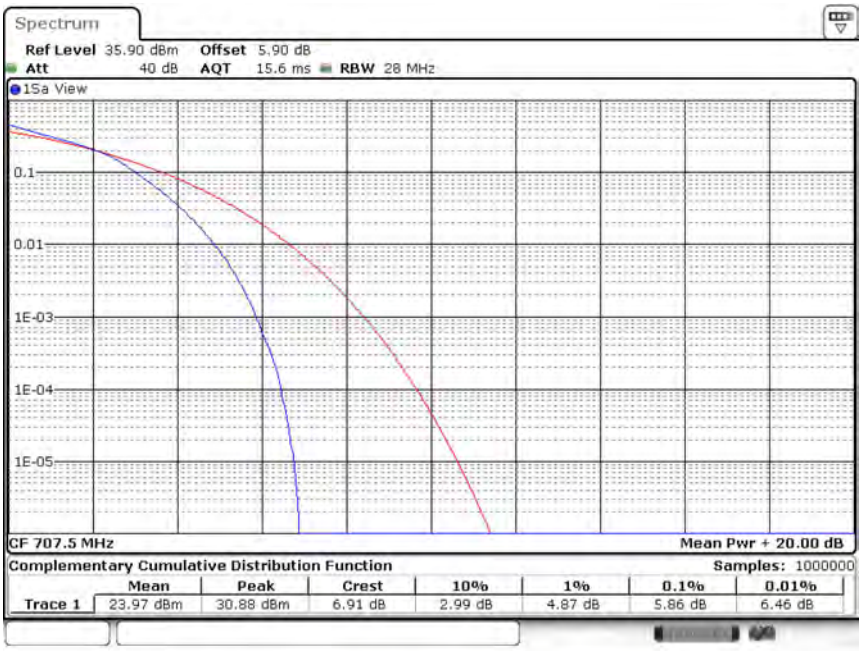
Band12-10MHz-16QAM-23095-50RB#0



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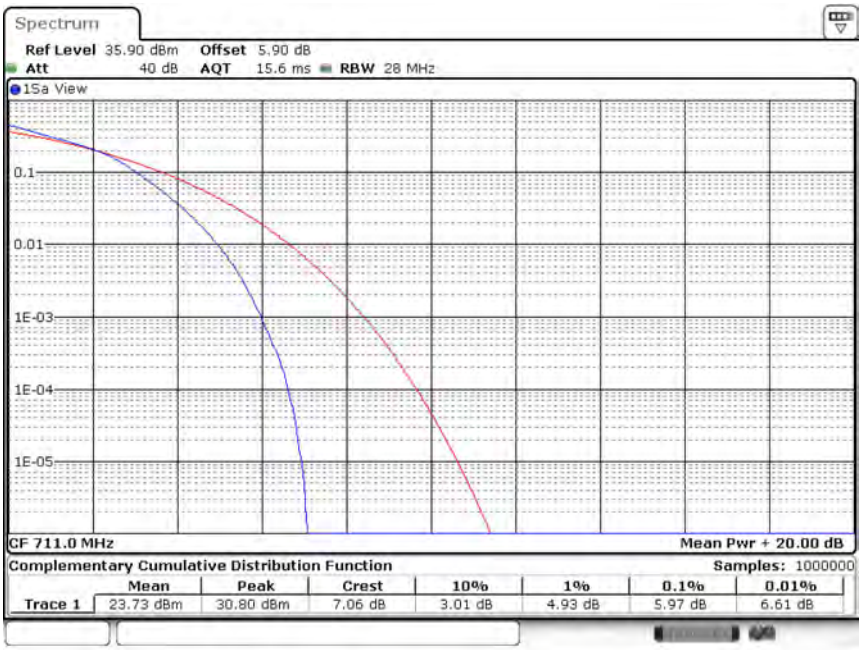

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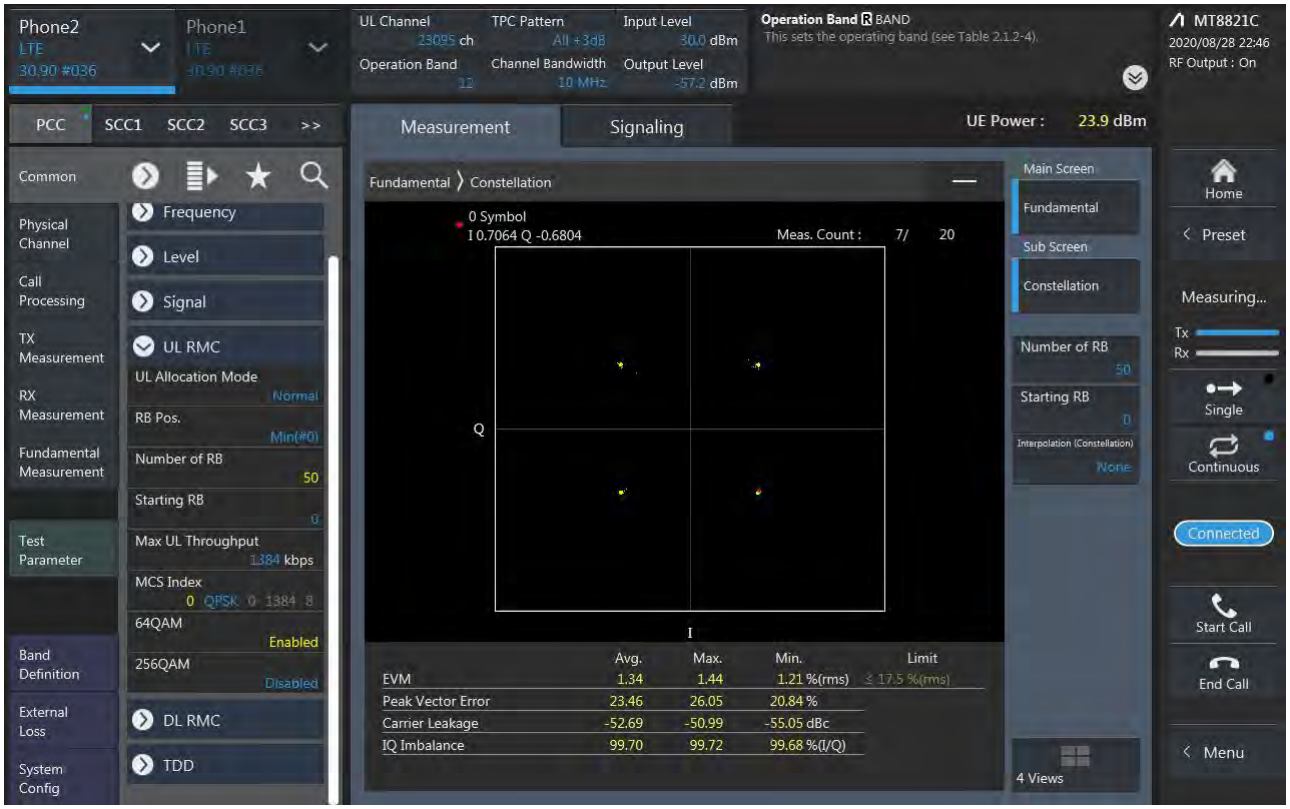
3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1.Test Channel = MCH



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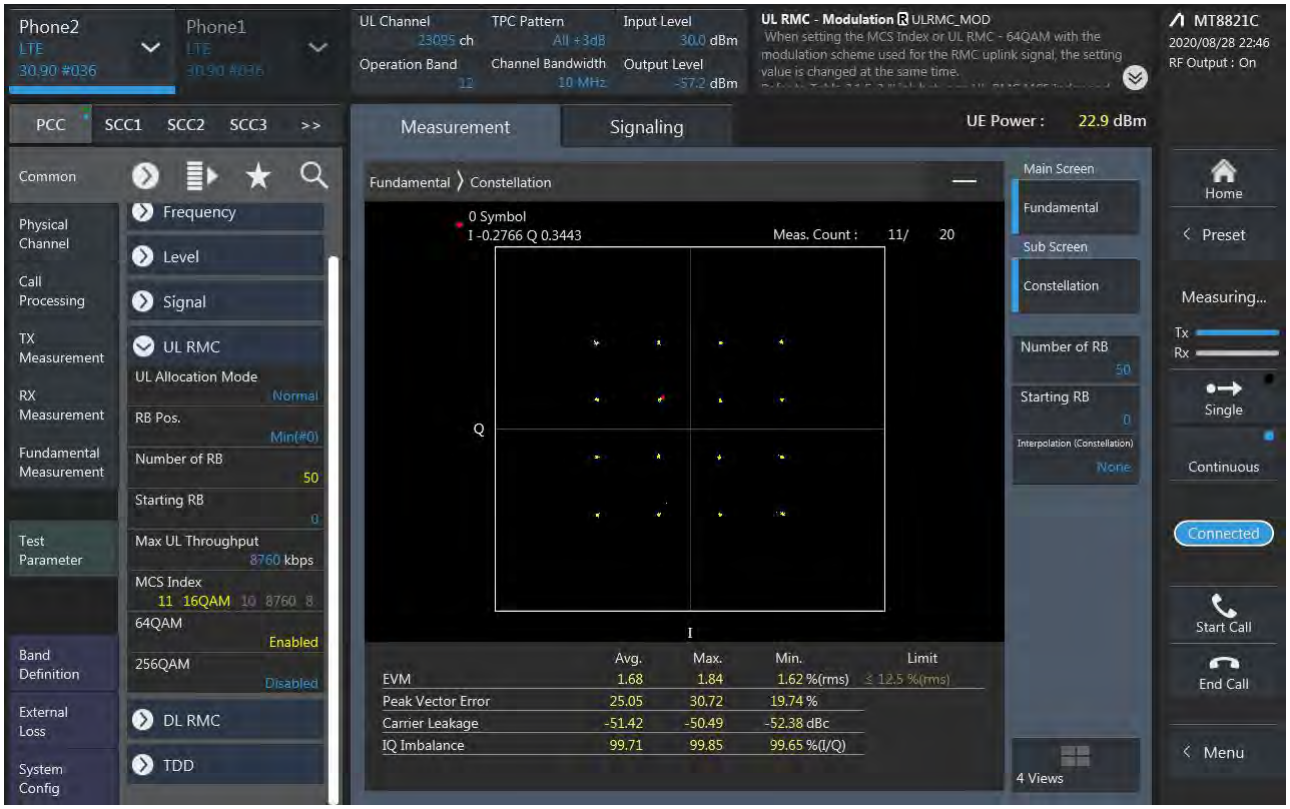
3.2. Test Mode = LTE /TM2 10MHz

3.2.1.Test Channel = MCH



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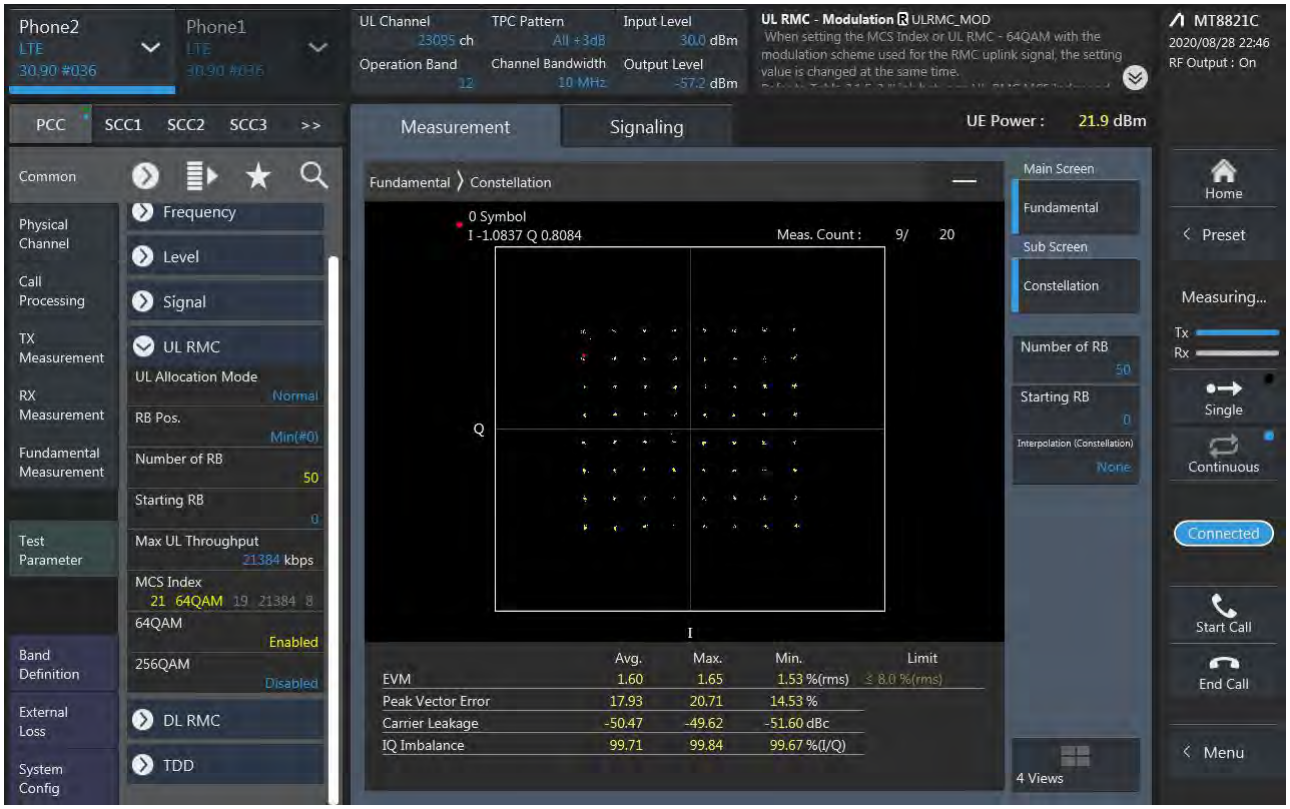
3.3. Test Mode = LTE /TM3 10MHz

3.3.1.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	1.1	1.320	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.094	1.278	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.088	1.284	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.097	1.287	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.1	1.278	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.094	1.296	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.094	1.305	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.088	1.287	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.091	1.290	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.697	3.000	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.703	2.982	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.697	2.988	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.691	2.970	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.691	2.982	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.691	2.970	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.685	2.976	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.685	2.970	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.685	2.964	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.476	4.940	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.476	4.930	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.466	4.930	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.466	4.880	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.476	4.930	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.466	4.890	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.486	4.970	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.486	4.940	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.486	4.960	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.931	9.720	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.911	9.720	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.931	9.800	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.911	9.660	PASS

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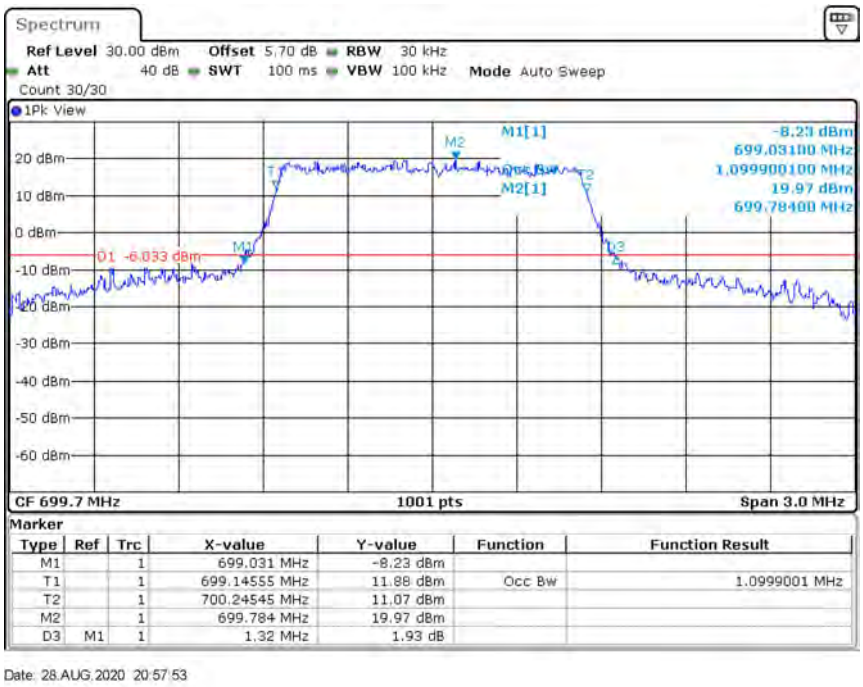
Band12	10MHz	64QAM	23095	50RB#0	8.951	9.760	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.911	9.660	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.911	9.760	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.911	9.760	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.951	9.760	PASS

4.2. Test Plots

Band12-1.4MHz-QPSK-23017-6RB#0-1.1



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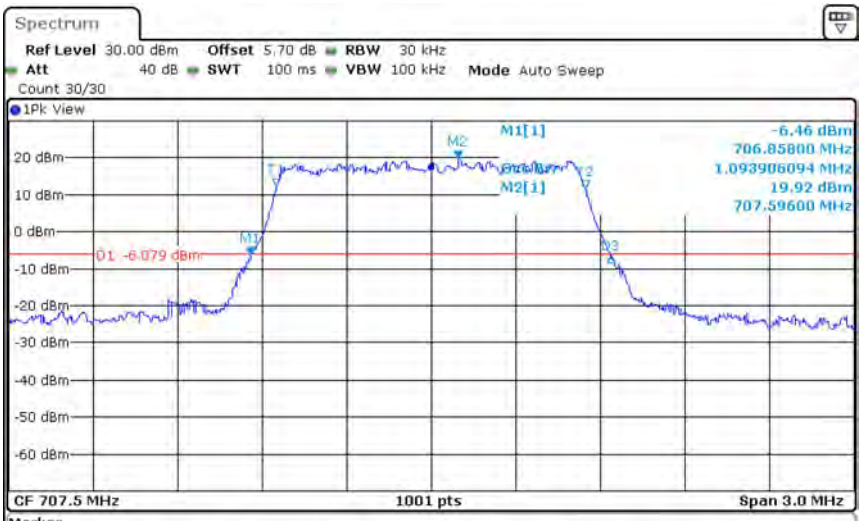
Band12-1.4MHz-QPSK-23095-6RB#0-1.094



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.858 MHz	-6.46 dBm		
T1		1	706.95155 MHz	12.19 dBm	Occ Bw	1.093906094 MHz
T2		1	708.04545 MHz	11.64 dBm		
M2		1	707.596 MHz	19.92 dBm		
D3	M1	1	1.278 MHz	0.07 dB		

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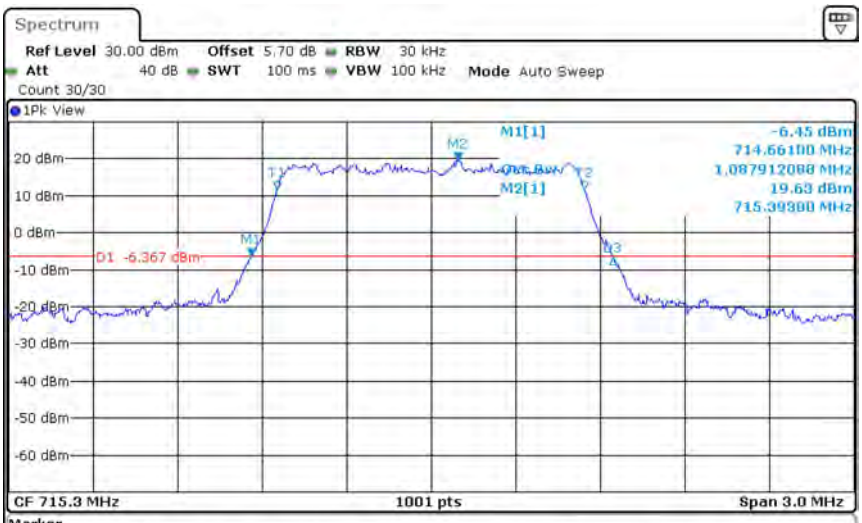
Band12-1.4MHz-QPSK-23173-6RB#0-1.088



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	714.661 MHz	-6.45 dBm		
T1		1	714.75455 MHz	11.83 dBm	Occ Bw	1.087912088 MHz
T2		1	715.84246 MHz	11.69 dBm		
M2		1	715.393 MHz	19.63 dBm		
D3	M1	1	1.284 MHz	-0.23 dB		

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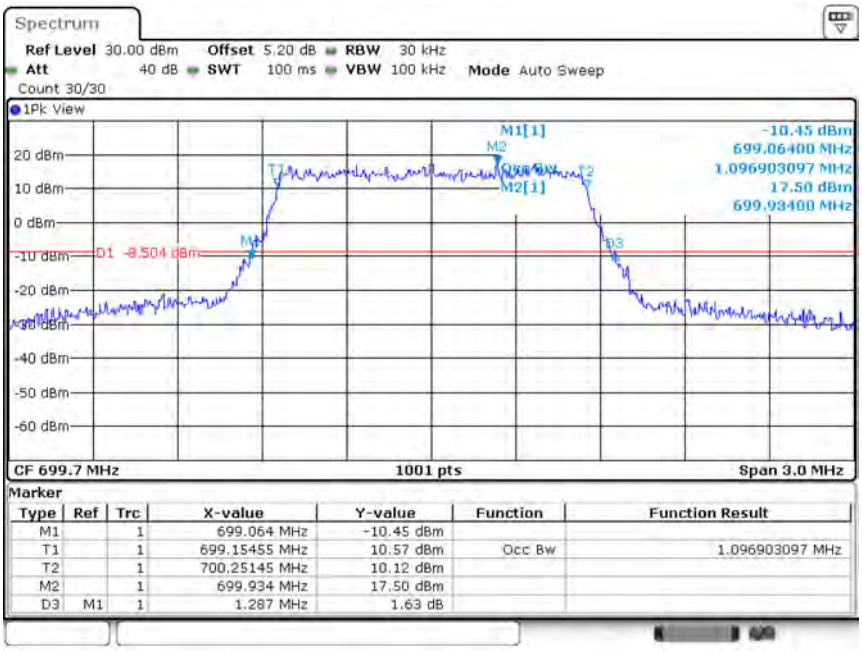
Band12-1.4MHz-64QAM-23017-6RB#0-1.097



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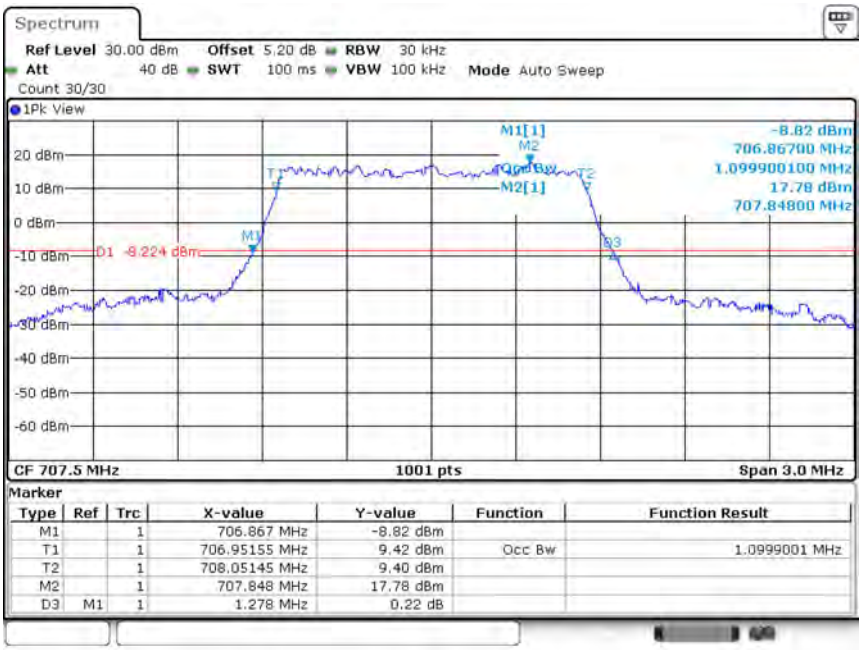
Band12-1.4MHz-64QAM-23095-6RB#0-1.1



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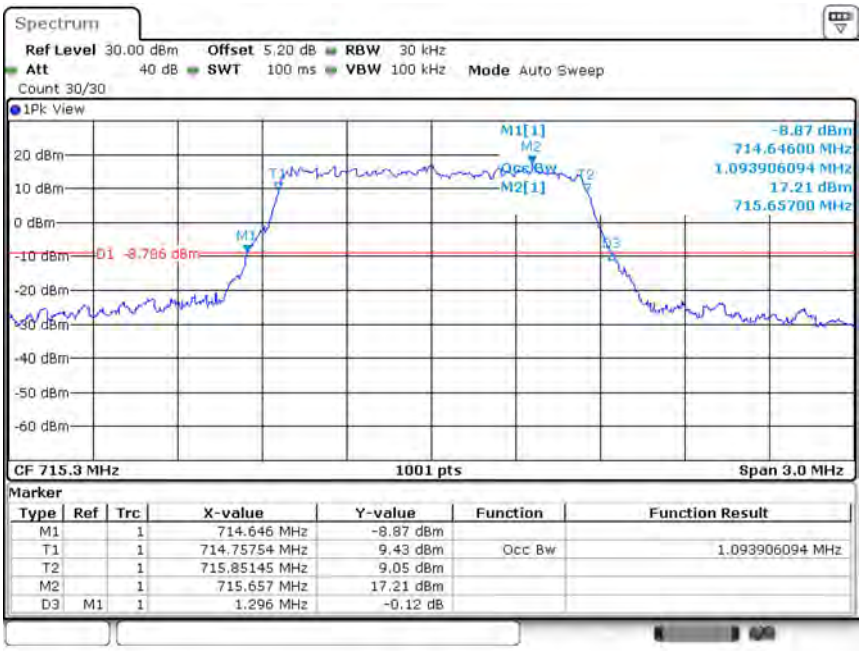
Band12-1.4MHz-64QAM-23173-6RB#0-1.094



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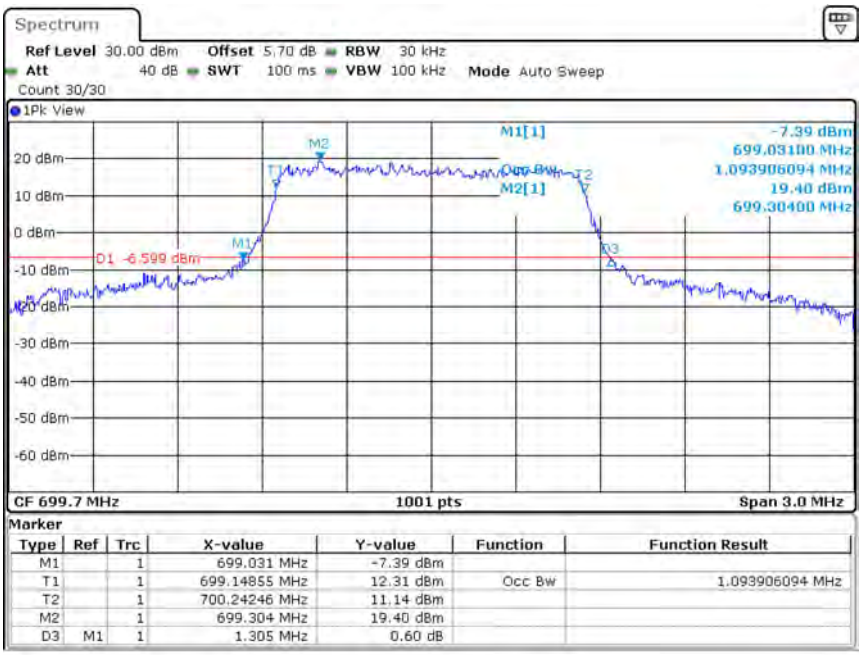

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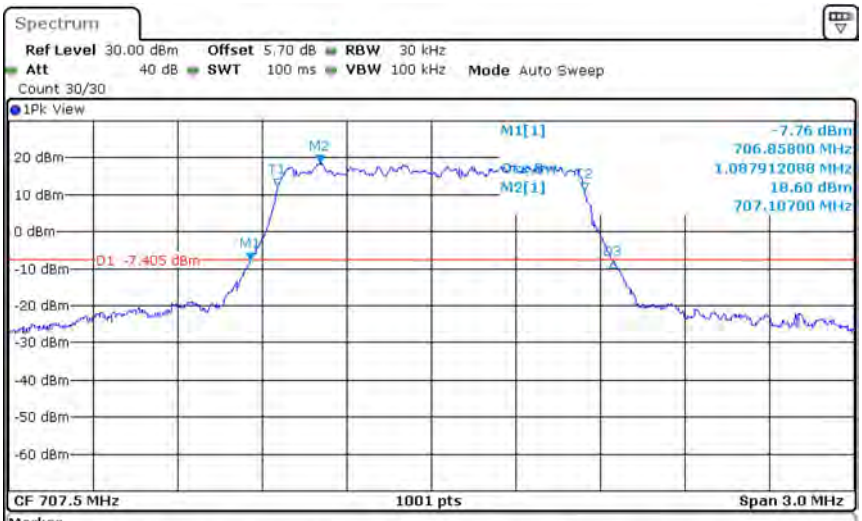
Band12-1.4MHz-16QAM-23095-6RB#0-1.088



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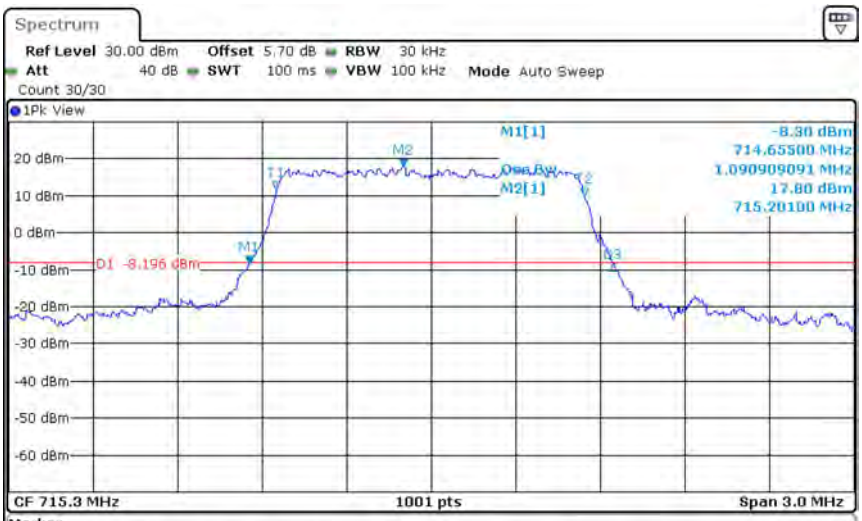
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.858 MHz	-7.76 dBm		
T1		1	706.95455 MHz	12.35 dBm	Occ Bw	1.087912088 MHz
T2		1	708.04246 MHz	11.12 dBm		
M2		1	707.107 MHz	18.60 dBm		
D3	M1	1	1.287 MHz	0.02 dB		

Date: 28.AUG.2020 20:58:32

Band12-1.4MHz-16QAM-23173-6RB#0-1.091



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	714.655 MHz	-8.30 dBm		
T1		1	714.75155 MHz	11.62 dBm	Occ Bw	1.090909091 MHz
T2		1	715.84246 MHz	9.98 dBm		
M2		1	715.201 MHz	17.80 dBm		
D3	M1	1	1.29 MHz	0.02 dB		

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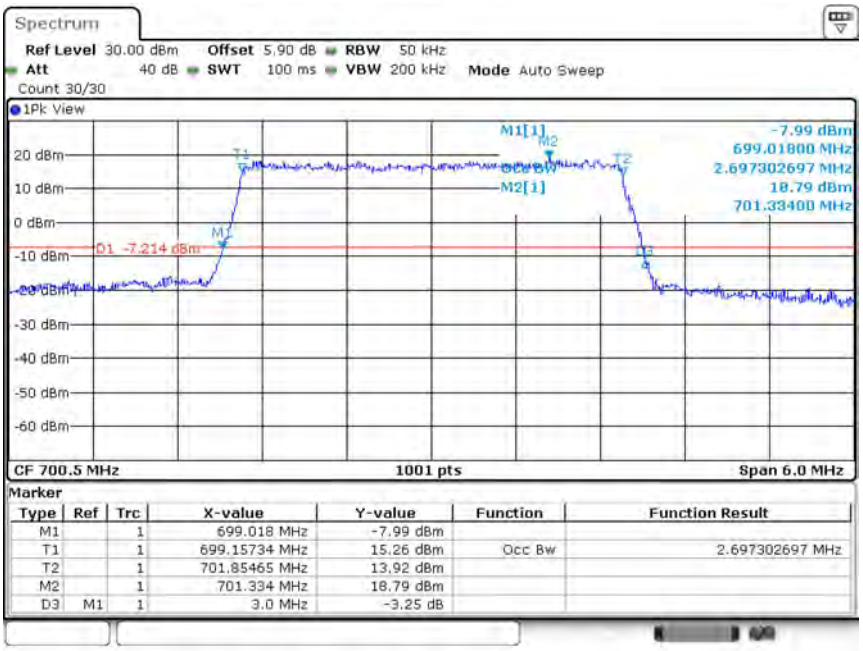
Band12-3MHz-QPSK-23025-15RB#0-2.697

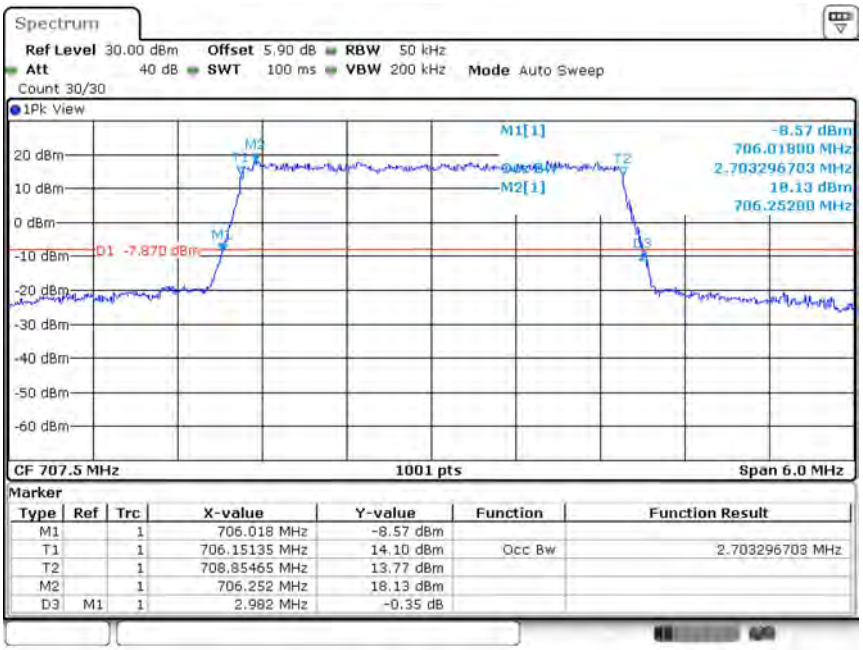


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.018 MHz	-7.99 dBm		
T1		1	699.15734 MHz	15.26 dBm	Occ Bw	2.697302697 MHz
T2		1	701.85465 MHz	13.92 dBm		
M2		1	701.334 MHz	18.79 dBm		
D3	M1	1	3.0 MHz	-3.25 dB		

Date: 13.AUG.2020 08:41:58

Band12-3MHz-QPSK-23095-15RB#0-2.703



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.018 MHz	-8.57 dBm		
T1		1	706.15135 MHz	14.10 dBm	Occ Bw	2.703296703 MHz
T2		1	708.85465 MHz	13.77 dBm		
M2		1	706.252 MHz	18.13 dBm		
D3	M1	1	2.982 MHz	-0.35 dB		

Date: 13.AUG.2020 08:42:17

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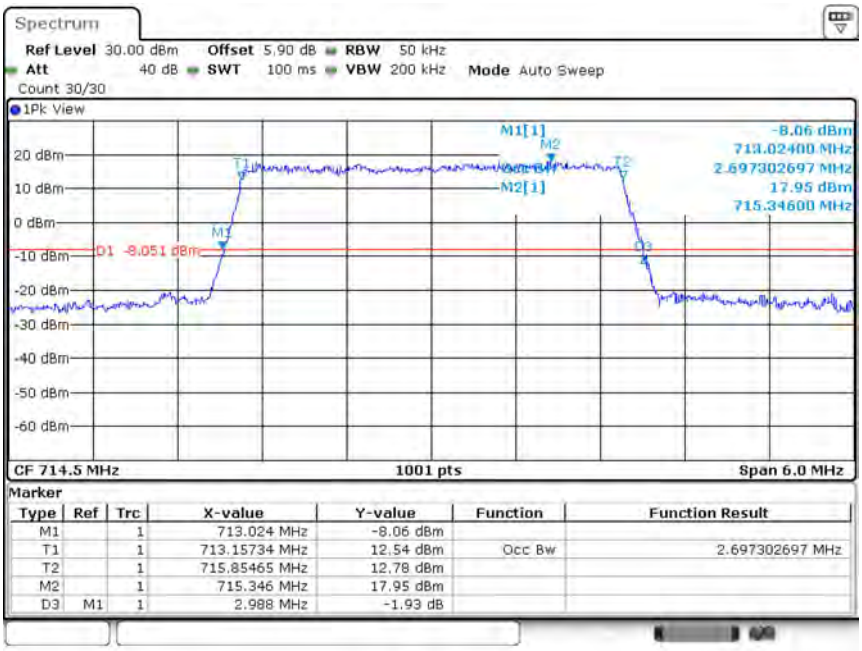
Band12-3MHz-QPSK-23165-15RB#0-2.697



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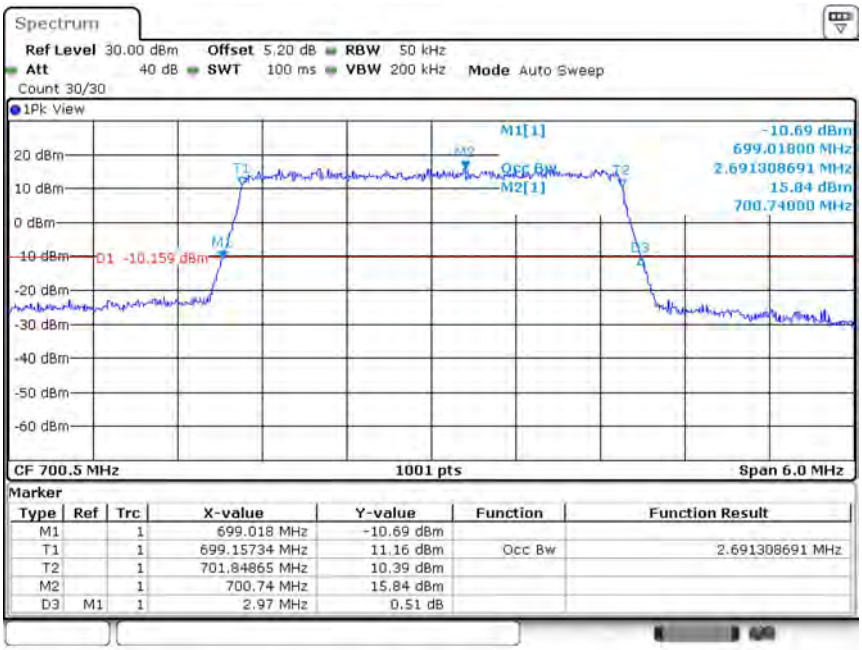
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	713.024 MHz	-8.06 dBm		
T1		1	713.15734 MHz	12.54 dBm	Occ Bw	2.697302697 MHz
T2		1	715.85465 MHz	12.78 dBm		
M2		1	715.346 MHz	17.95 dBm		
D3	M1	1	2.988 MHz	-1.93 dB		

Date: 13.AUG.2020 08:42:36

Band12-3MHz-64QAM-23025-15RB#0-2.691



Marker						
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.018 MHz	-10.69 dBm		
T1		1	699.15734 MHz	11.16 dBm	Occ Bw	2.691308691 MHz
T2		1	701.84865 MHz	10.39 dBm		
M2		1	700.74 MHz	15.84 dBm		
D3	M1	1	2.97 MHz	0.51 dB		

Date: 19.AUG.2020 08:38:01

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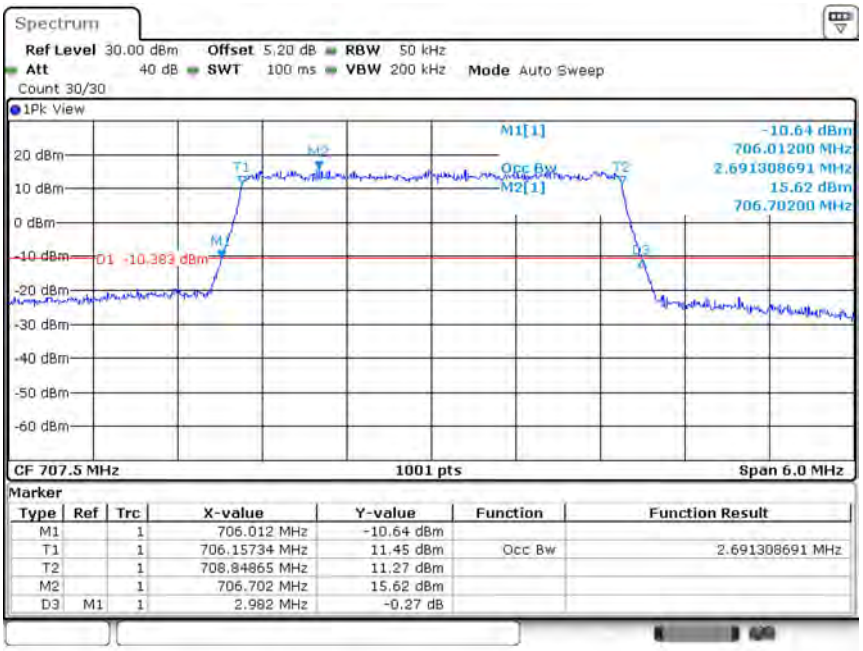
Band12-3MHz-64QAM-23095-15RB#0-2.691



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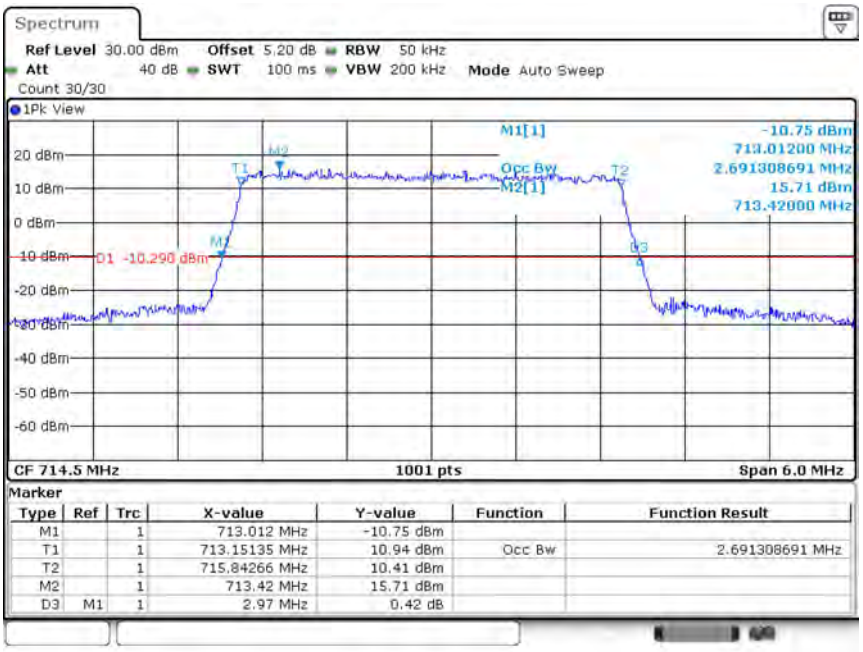
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.012 MHz	-10.64 dBm		
T1		1	706.15734 MHz	11.45 dBm	Occ Bw	2.691308691 MHz
T2		1	708.84865 MHz	11.27 dBm		
M2		1	706.702 MHz	15.62 dBm		
D3	M1	1	2.982 MHz	-0.27 dB		

Date: 19.AUG.2020 08:38:14

Band12-3MHz-64QAM-23165-15RB#0-2.691



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	713.012 MHz	-10.75 dBm		
T1		1	713.15135 MHz	10.94 dBm	Occ Bw	2.691308691 MHz
T2		1	715.84266 MHz	10.41 dBm		
M2		1	713.42 MHz	15.71 dBm		
D3	M1	1	2.97 MHz	0.42 dB		

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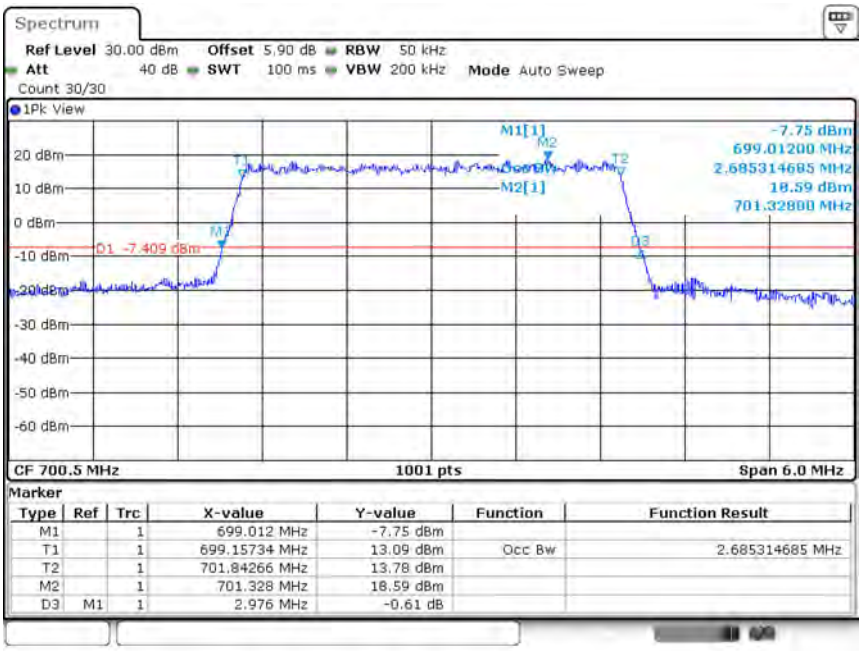
Band12-3MHz-16QAM-23025-15RB#0-2.685



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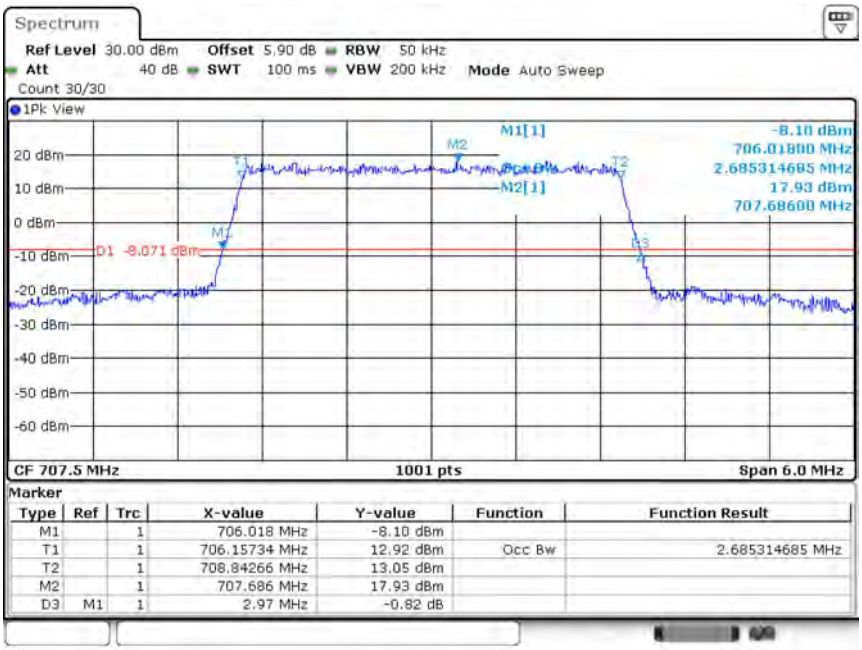
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.012 MHz	-7.75 dBm		
T1		1	699.15734 MHz	13.09 dBm	Occ Bw	2.685314685 MHz
T2		1	701.84266 MHz	13.78 dBm		
M2		1	701.328 MHz	18.59 dBm		
D3	M1	1	2.976 MHz	-0.61 dB		

Date: 13.AUG.2020 08:42:07

Band12-3MHz-16QAM-23095-15RB#0-2.685



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	706.018 MHz	-8.10 dBm		
T1		1	706.15734 MHz	12.92 dBm	Occ Bw	2.685314685 MHz
T2		1	708.84266 MHz	13.05 dBm		
M2		1	707.686 MHz	17.93 dBm		
D3	M1	1	2.97 MHz	-0.82 dB		

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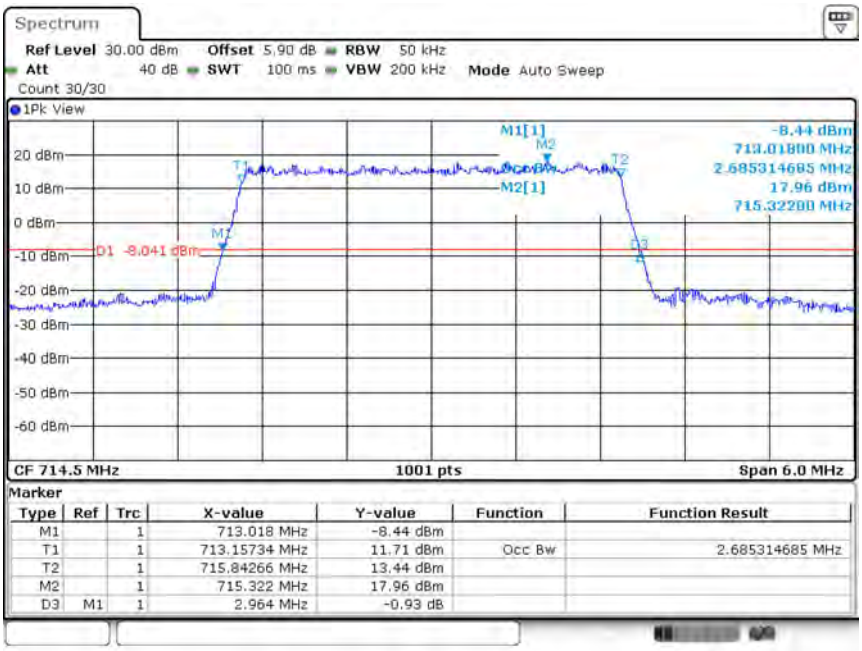
Band12-3MHz-16QAM-23165-15RB#0-2.685



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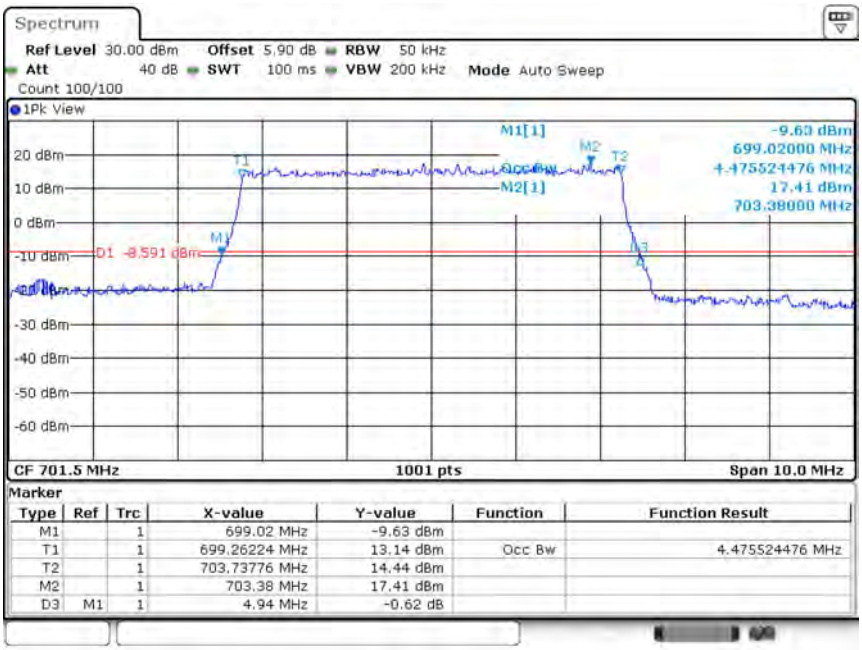
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	713.018 MHz	-8.44 dBm		
T1		1	713.15734 MHz	11.71 dBm	Occ Bw	2.685314685 MHz
T2		1	715.84266 MHz	13.44 dBm		
M2		1	715.322 MHz	17.96 dBm		
D3	M1	1	2.964 MHz	-0.93 dB		

Date: 13.AUG.2020 08:42:46

Band12-5MHz-QPSK-23035-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.02 MHz	-9.63 dBm		
T1		1	699.26224 MHz	13.14 dBm	Occ Bw	4.475524476 MHz
T2		1	703.73776 MHz	14.44 dBm		
M2		1	703.38 MHz	17.41 dBm		
D3	M1	1	4.94 MHz	-0.62 dB		

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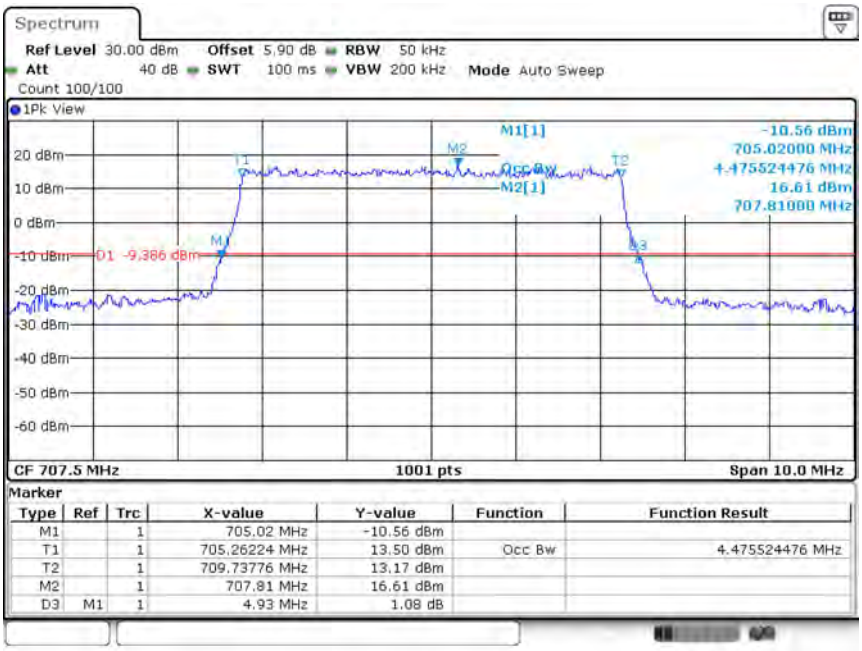

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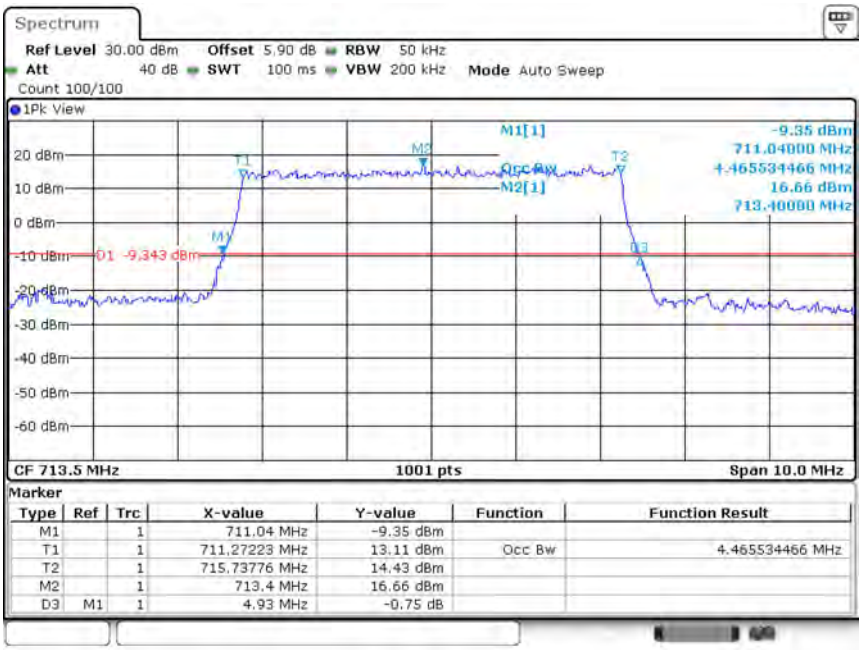
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	705.02 MHz	-10.56 dBm		
T1		1	705.26224 MHz	13.50 dBm	Occ Bw	4.475524476 MHz
T2		1	709.73776 MHz	13.17 dBm		
M2		1	707.81 MHz	16.61 dBm		
D3	M1	1	4.93 MHz	1.08 dB		

Date: 13.AUG.2020 08:43:38

Band12-5MHz-QPSK-23155-25RB#0-4.466



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	711.04 MHz	-9.35 dBm		
T1		1	711.27223 MHz	13.11 dBm	Occ Bw	4.465534466 MHz
T2		1	715.73776 MHz	14.43 dBm		
M2		1	713.4 MHz	16.66 dBm		
D3	M1	1	4.93 MHz	-0.75 dB		

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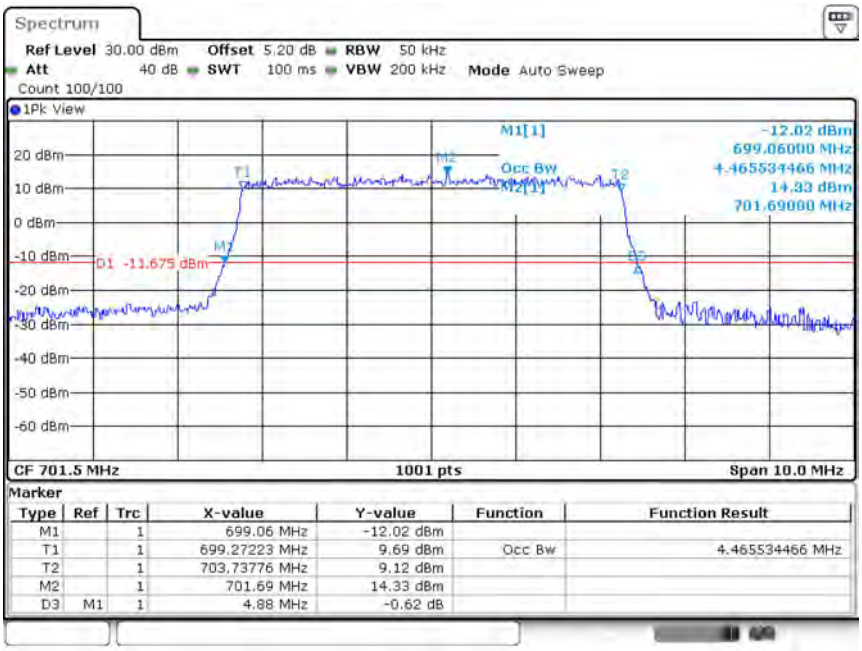
Band12-5MHz-64QAM-23035-25RB#0-4.466

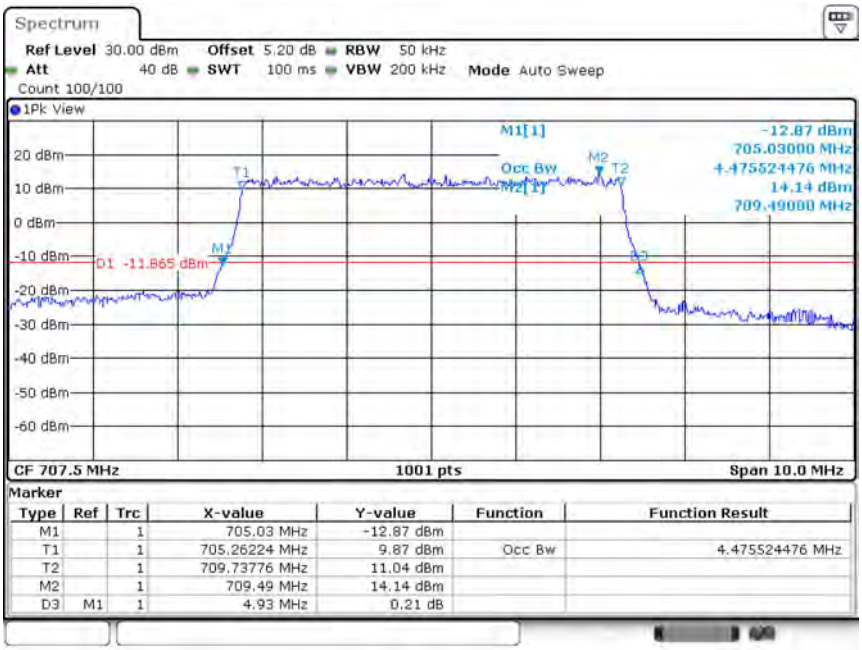


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.06 MHz	-12.02 dBm		
T1		1	699.27223 MHz	9.69 dBm	Occ Bw	4.465534466 MHz
T2		1	703.73776 MHz	9.12 dBm		
M2		1	701.69 MHz	14.33 dBm		
D3	M1	1	4.88 MHz	-0.62 dB		

Date: 19.AUG.2020 08:38:54

Band12-5MHz-64QAM-23095-25RB#0-4.476



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	705.03 MHz	-12.87 dBm		
T1		1	705.26224 MHz	9.87 dBm	Occ Bw	4.475524476 MHz
T2		1	709.73776 MHz	11.04 dBm		
M2		1	709.49 MHz	14.14 dBm		
D3	M1	1	4.93 MHz	0.21 dB		

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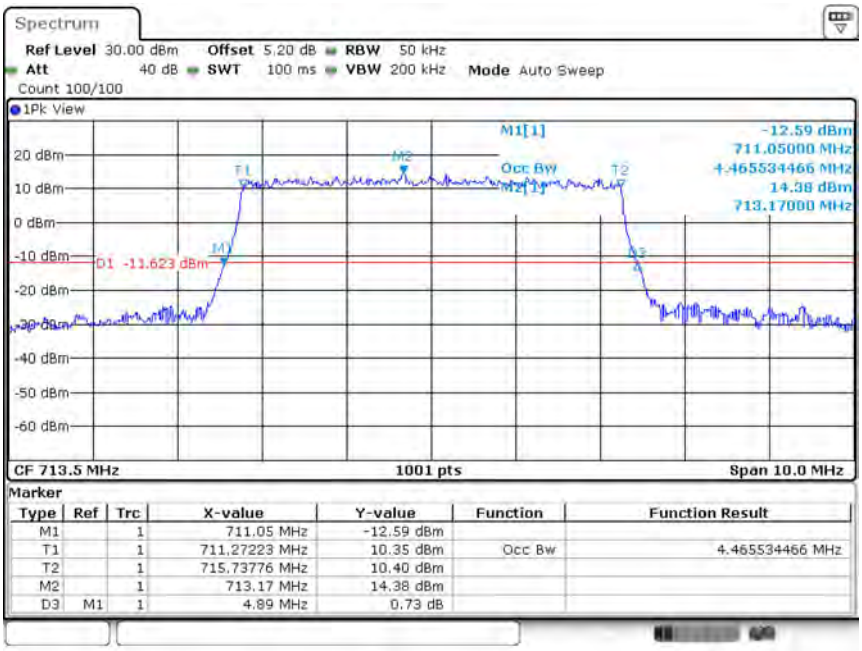
Band12-5MHz-64QAM-23155-25RB#0-4.466



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Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	711.05 MHz	-12.59 dBm		
T1		1	711.27223 MHz	10.35 dBm	Occ Bw	4.465534466 MHz
T2		1	715.73776 MHz	10.40 dBm		
M2		1	713.17 MHz	14.38 dBm		
D3	M1	1	4.89 MHz	0.73 dB		

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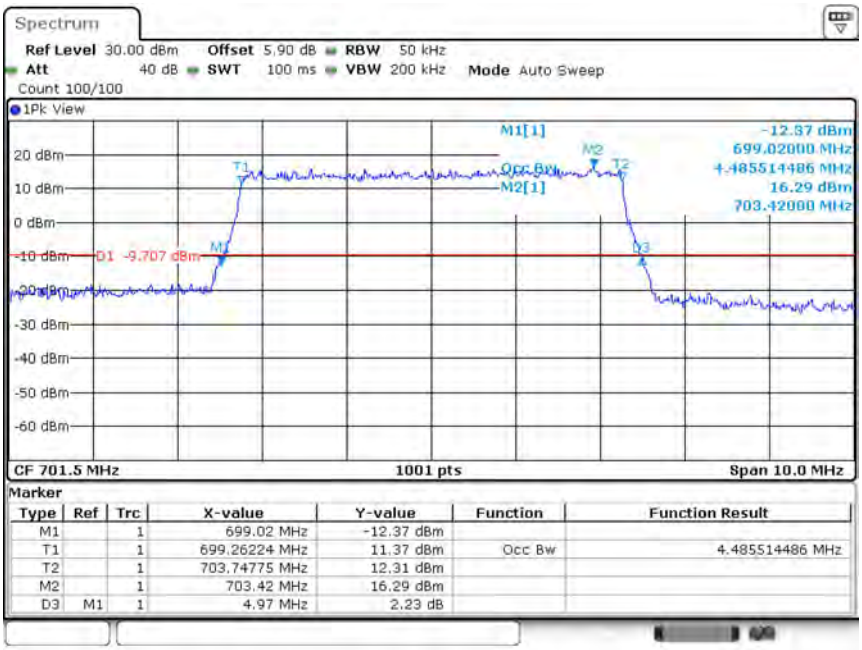
Band12-5MHz-16QAM-23035-25RB#0-4.486



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	699.02 MHz	-12.37 dBm		
T1		1	699.26224 MHz	11.37 dBm	Occ Bw	4.485514486 MHz
T2		1	703.74775 MHz	12.31 dBm		
M2		1	703.42 MHz	16.29 dBm		
D3	M1	1	4.97 MHz	2.23 dB		

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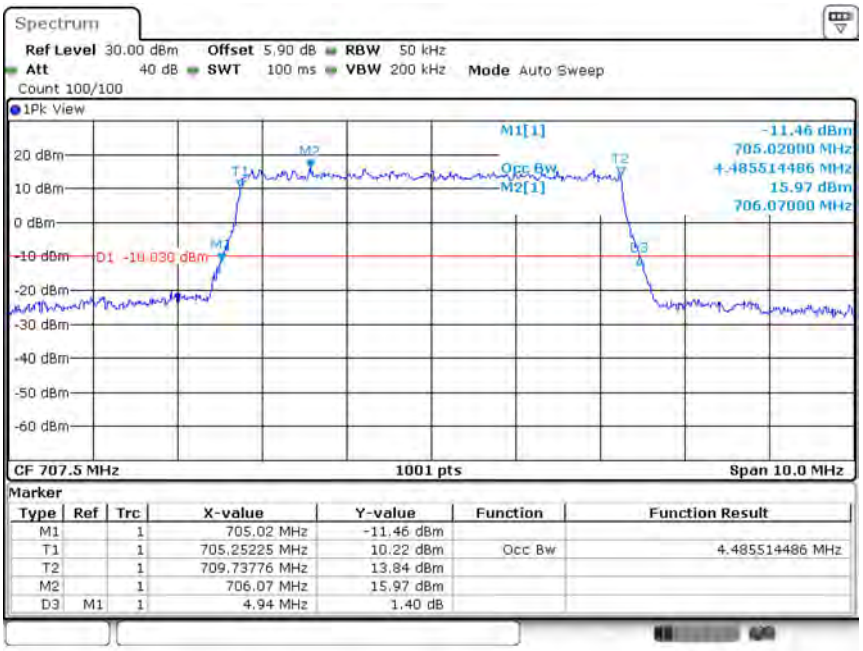
Band12-5MHz-16QAM-23095-25RB#0-4.486



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	705.02 MHz	-11.46 dBm		
T1		1	705.25225 MHz	10.22 dBm	Occ Bw	4.485514486 MHz
T2		1	709.73776 MHz	13.84 dBm		
M2		1	706.07 MHz	15.97 dBm		
D3	M1	1	4.94 MHz	1.40 dB		

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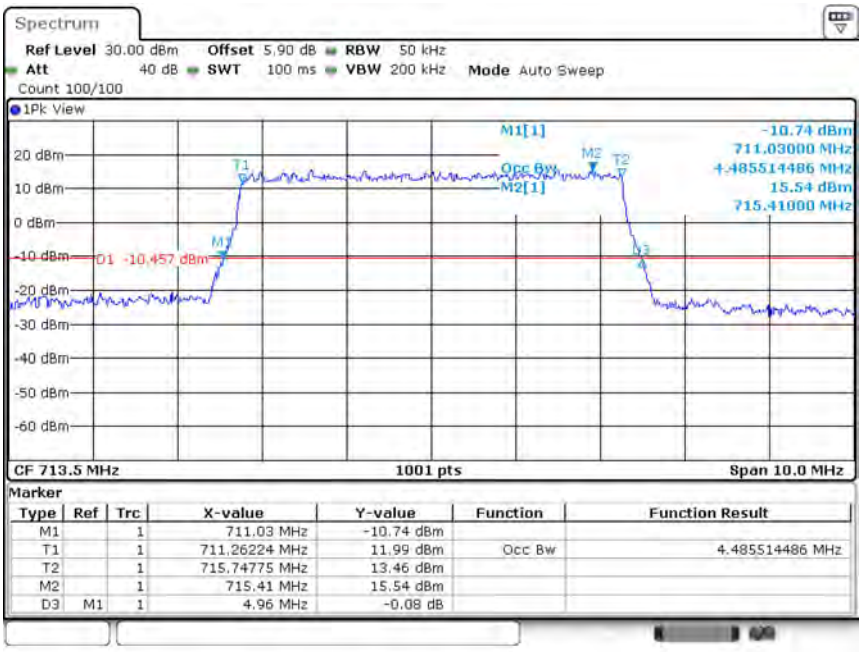
Band12-5MHz-16QAM-23155-25RB#0-4.486



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	711.03 MHz	-10.74 dBm		
T1		1	711.26224 MHz	11.99 dBm	Occ Bw	4.485514486 MHz
T2		1	715.74775 MHz	13.46 dBm		
M2		1	715.41 MHz	15.54 dBm		
D3	M1	1	4.96 MHz	-0.08 dB		

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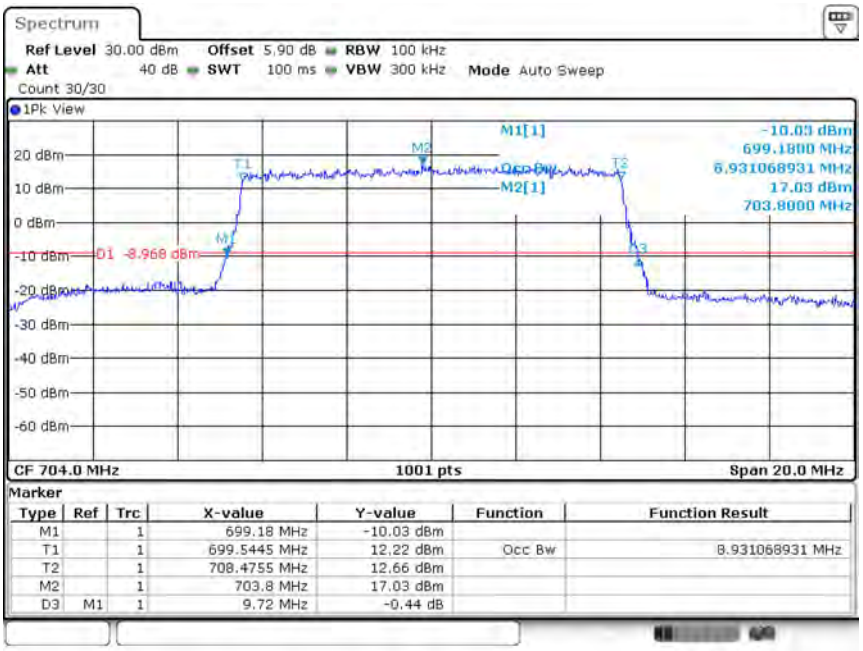
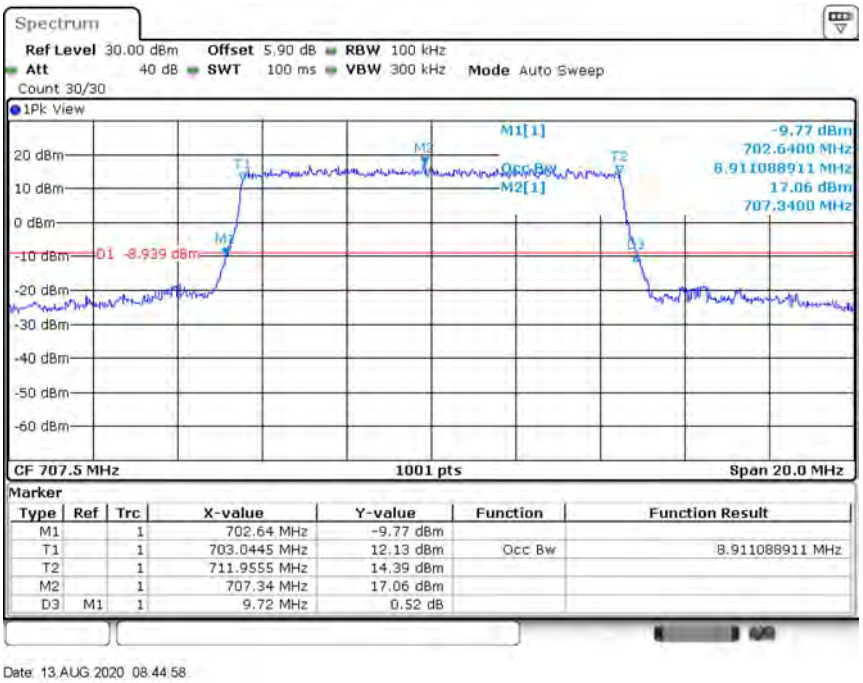
Band12-10MHz-QPSK-23060-50RB#0-8.931



Band12-10MHz-QPSK-23095-50RB#0-8.911



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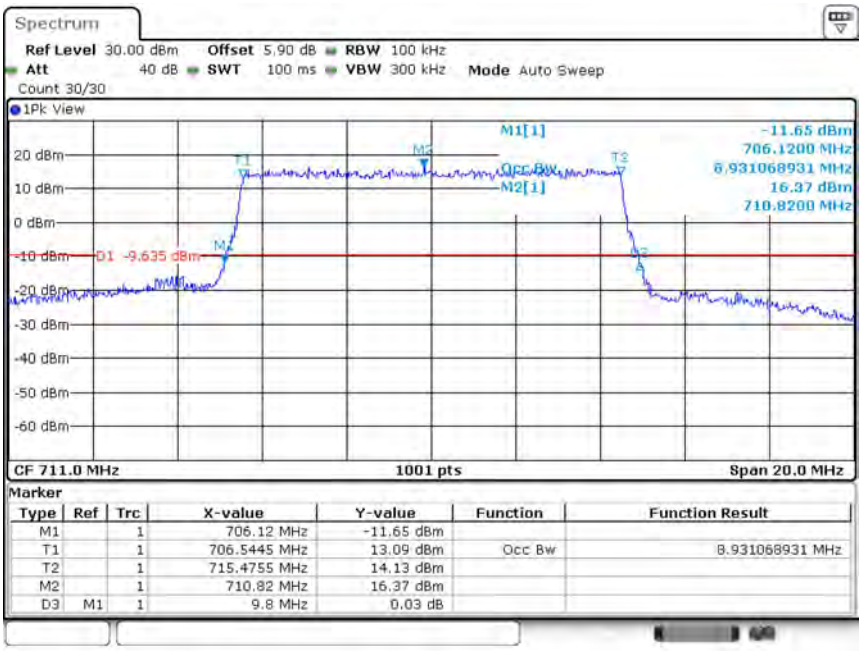
Band12-10MHz-QPSK-23130-50RB#0-8.931



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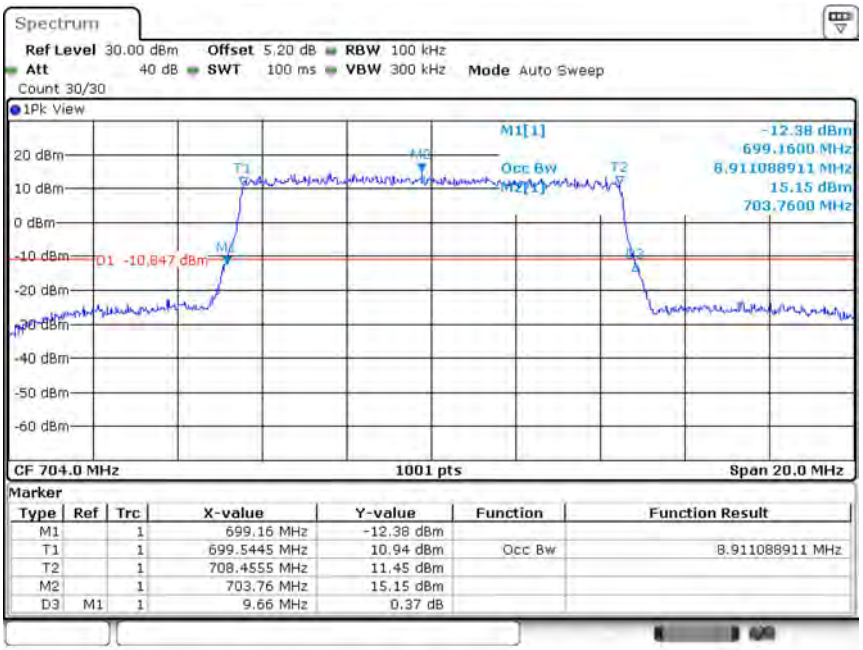
Band12-10MHz-64QAM-23060-50RB#0-8.911



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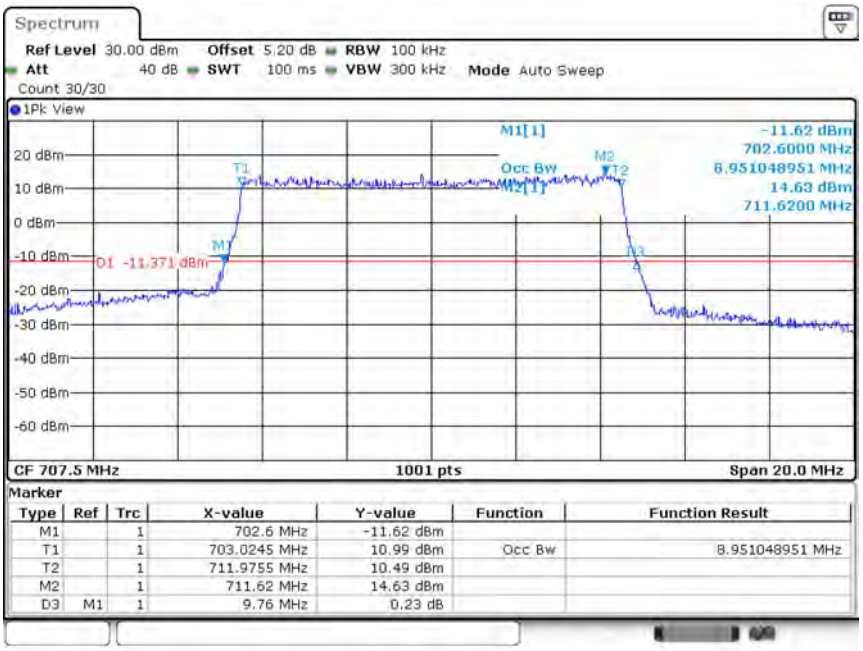
Band12-10MHz-64QAM-23095-50RB#0-8.951



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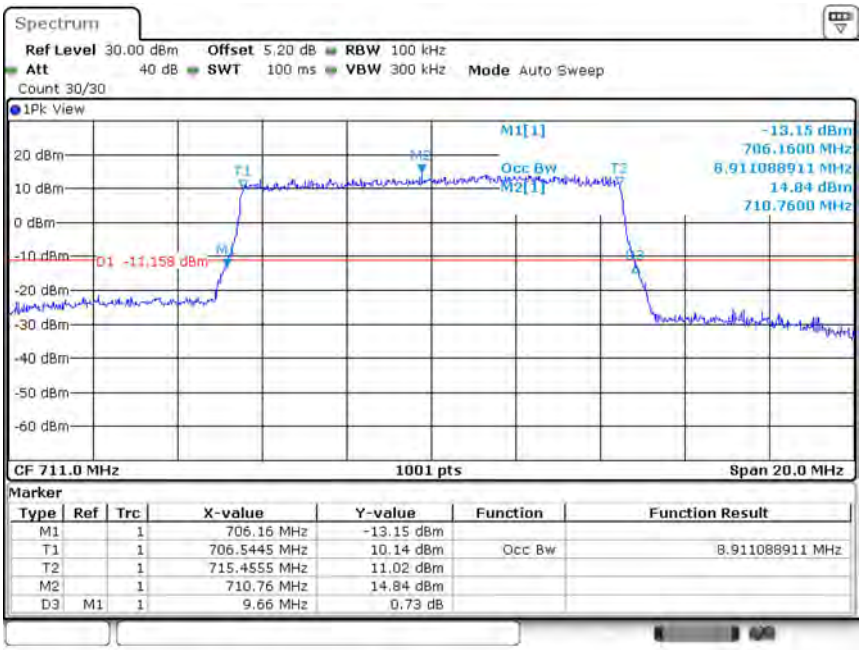
Band12-10MHz-64QAM-23130-50RB#0-8.911



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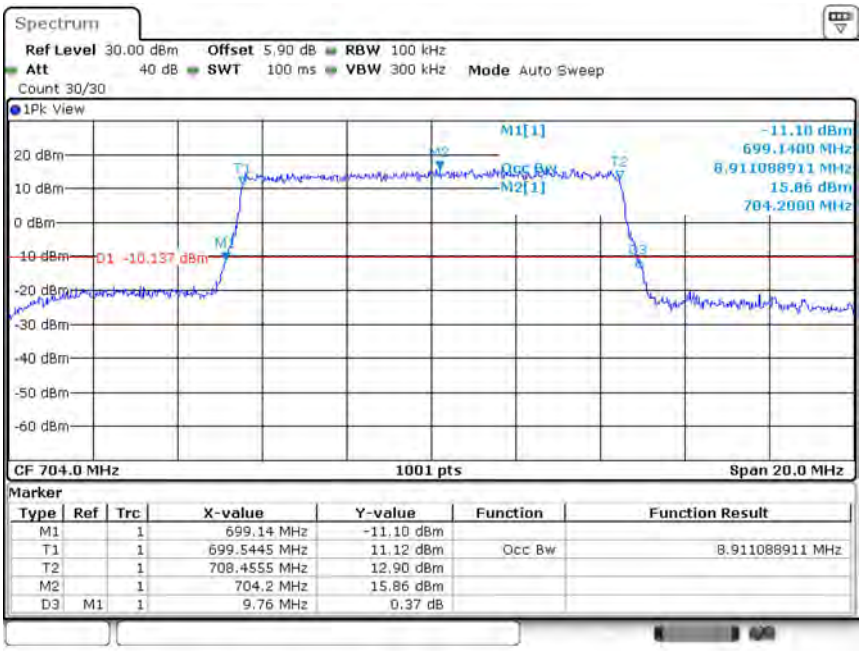
Band12-10MHz-16QAM-23060-50RB#0-8.911



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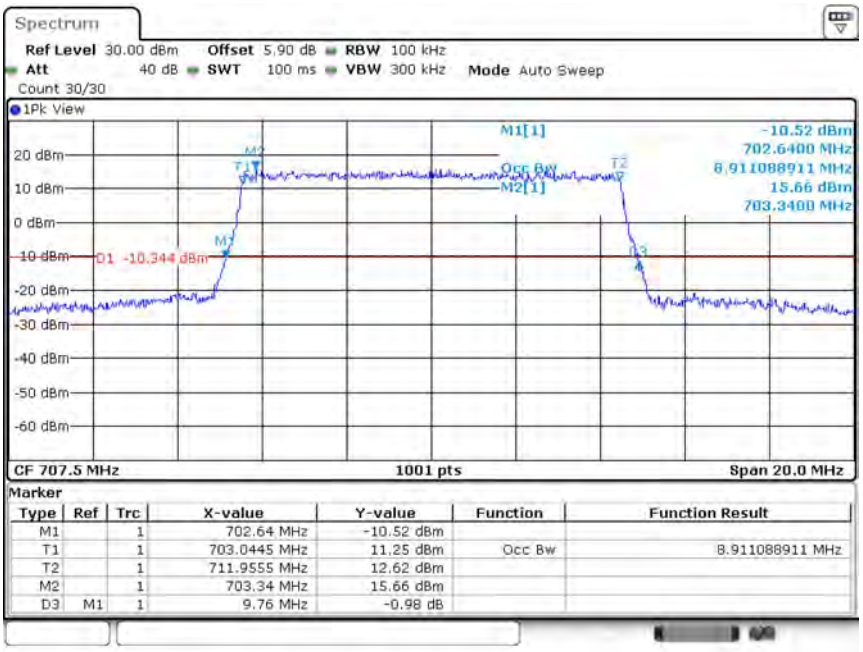
Band12-10MHz-16QAM-23095-50RB#0-8.911



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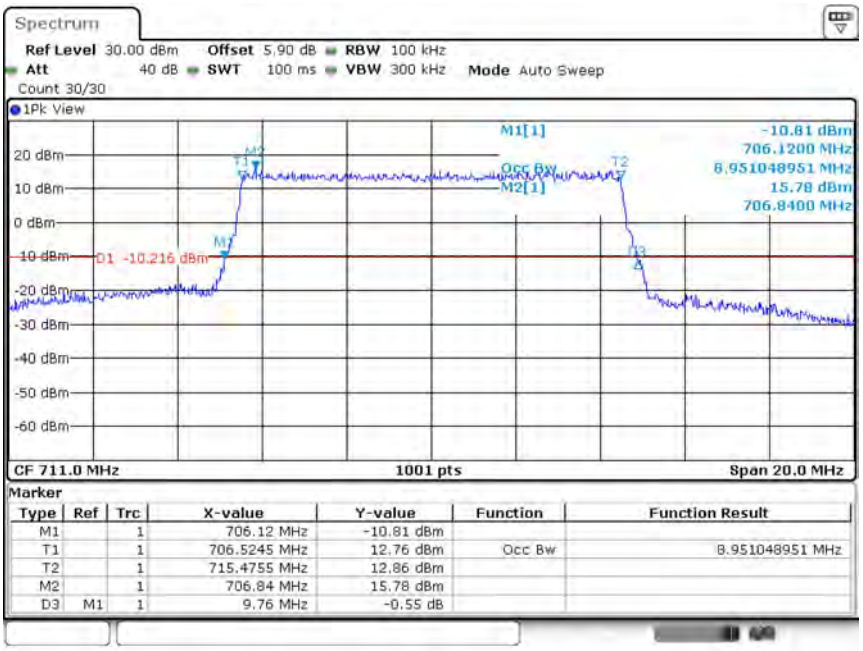

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5. Band Edge Compliance

5.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-17.66	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-23.61	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-19.57	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-26.88	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	-22.39	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	-27.80	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	-22.45	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	-29.59	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-18.60	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-24.08	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-20.46	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-27.13	PASS
Band12	3MHz	QPSK	23025	1RB#0	-13.06	PASS
Band12	3MHz	QPSK	23025	15RB#0	-22.62	PASS
Band12	3MHz	QPSK	23165	1RB#14	-15.84	PASS
Band12	3MHz	QPSK	23165	15RB#0	-24.24	PASS
Band12	3MHz	64QAM	23025	1RB#0	-18.31	PASS
Band12	3MHz	64QAM	23025	15RB#0	-26.32	PASS
Band12	3MHz	64QAM	23165	1RB#14	-17.68	PASS
Band12	3MHz	64QAM	23165	15RB#0	-27.51	PASS
Band12	3MHz	16QAM	23025	1RB#0	-13.41	PASS
Band12	3MHz	16QAM	23025	15RB#0	-23.73	PASS
Band12	3MHz	16QAM	23165	1RB#14	-17.16	PASS
Band12	3MHz	16QAM	23165	15RB#0	-24.86	PASS
Band12	5MHz	QPSK	23035	1RB#0	-18.57	PASS
Band12	5MHz	QPSK	23035	25RB#0	-25.25	PASS
Band12	5MHz	QPSK	23155	1RB#24	-20.56	PASS
Band12	5MHz	QPSK	23155	25RB#0	-27.40	PASS
Band12	5MHz	64QAM	23035	1RB#0	-20.52	PASS
Band12	5MHz	64QAM	23035	25RB#0	-29.22	PASS
Band12	5MHz	64QAM	23155	1RB#24	-21.67	PASS
Band12	5MHz	64QAM	23155	25RB#0	-31.21	PASS

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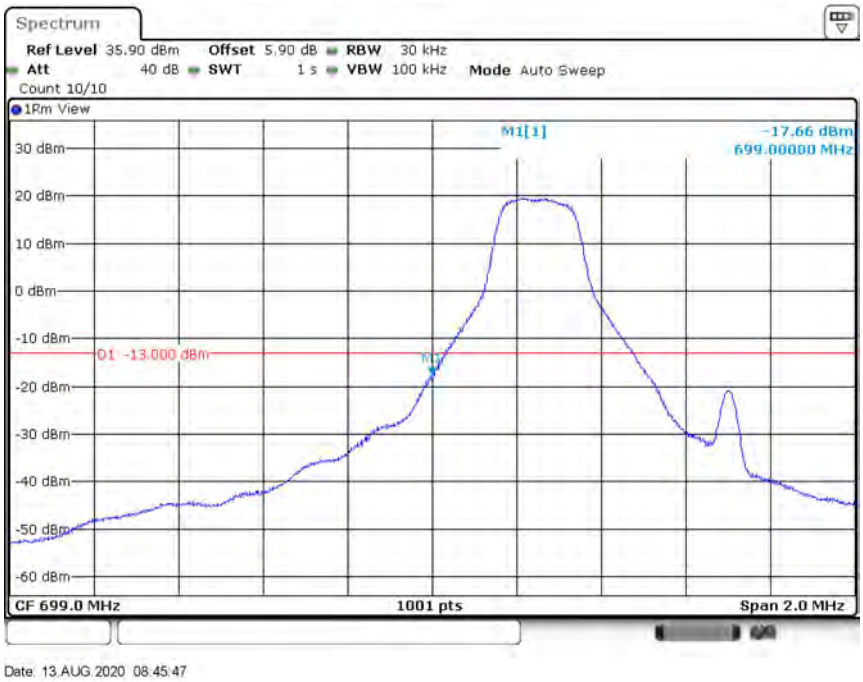
Band12	5MHz	16QAM	23035	1RB#0	-19.23	PASS
Band12	5MHz	16QAM	23035	25RB#0	-25.87	PASS
Band12	5MHz	16QAM	23155	1RB#24	-20.46	PASS
Band12	5MHz	16QAM	23155	25RB#0	-27.57	PASS
Band12	10MHz	QPSK	23060	1RB#0	-28.21	PASS
Band12	10MHz	QPSK	23060	50RB#0	-27.51	PASS
Band12	10MHz	QPSK	23130	1RB#49	-29.35	PASS
Band12	10MHz	QPSK	23130	50RB#0	-29.07	PASS
Band12	10MHz	64QAM	23060	1RB#0	-31.05	PASS
Band12	10MHz	64QAM	23060	50RB#0	-31.57	PASS
Band12	10MHz	64QAM	23130	1RB#49	-32.26	PASS
Band12	10MHz	64QAM	23130	50RB#0	-33.35	PASS
Band12	10MHz	16QAM	23060	1RB#0	-27.92	PASS
Band12	10MHz	16QAM	23060	50RB#0	-28.47	PASS
Band12	10MHz	16QAM	23130	1RB#49	-31.03	PASS
Band12	10MHz	16QAM	23130	50RB#0	-30.54	PASS

5.2. Test Plots

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



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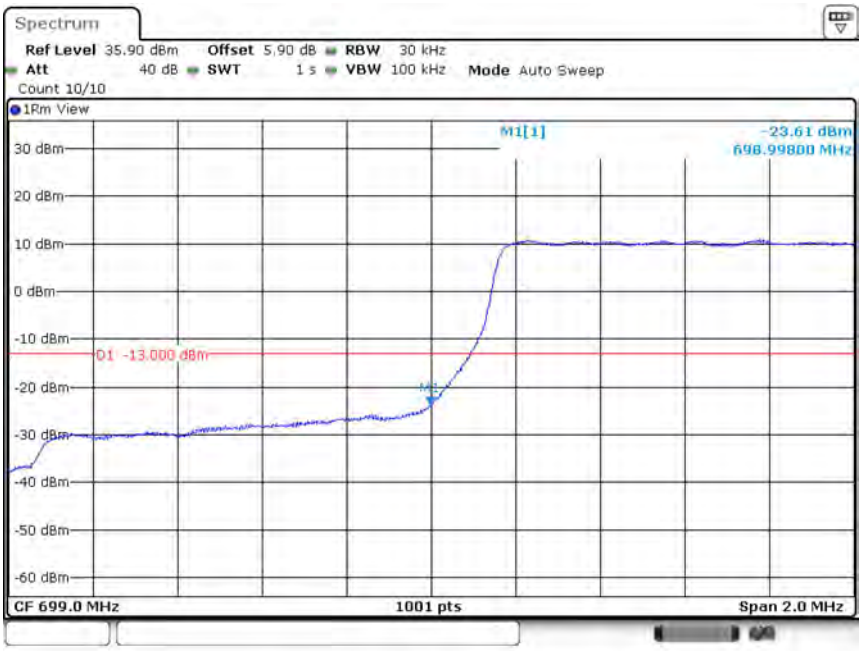
Band12-1.4MHz-QPSK-23017-6RB#0



Date: 13.AUG.2020 08:46:22

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

Date: 13.AUG.2020 08:46:58

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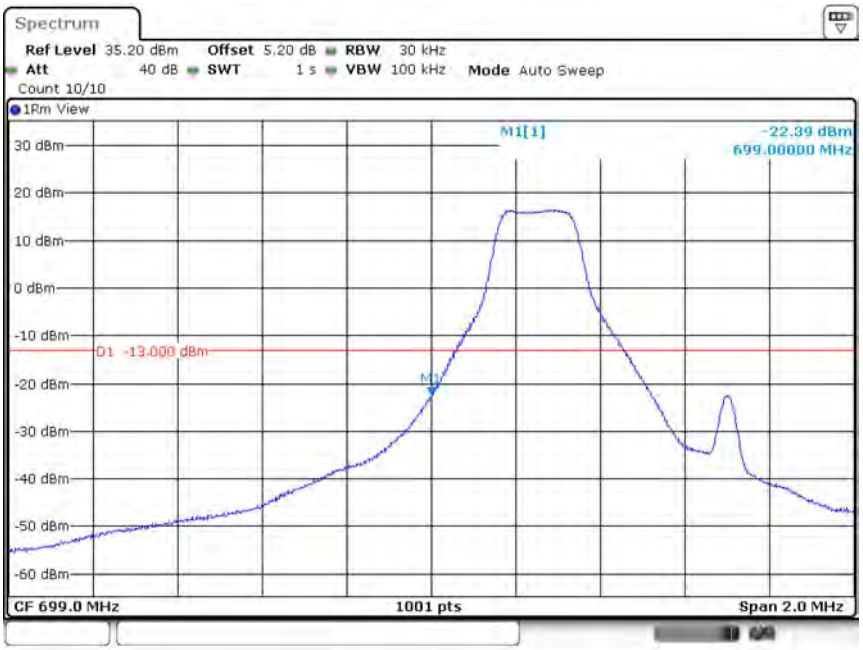
Band12-1.4MHz-QPSK-23173-6RB#0

Date: 13.AUG.2020 08:47:32

Band12-1.4MHz-64QAM-23017-1RB#0



Date: 19.AUG.2020 08:40:47

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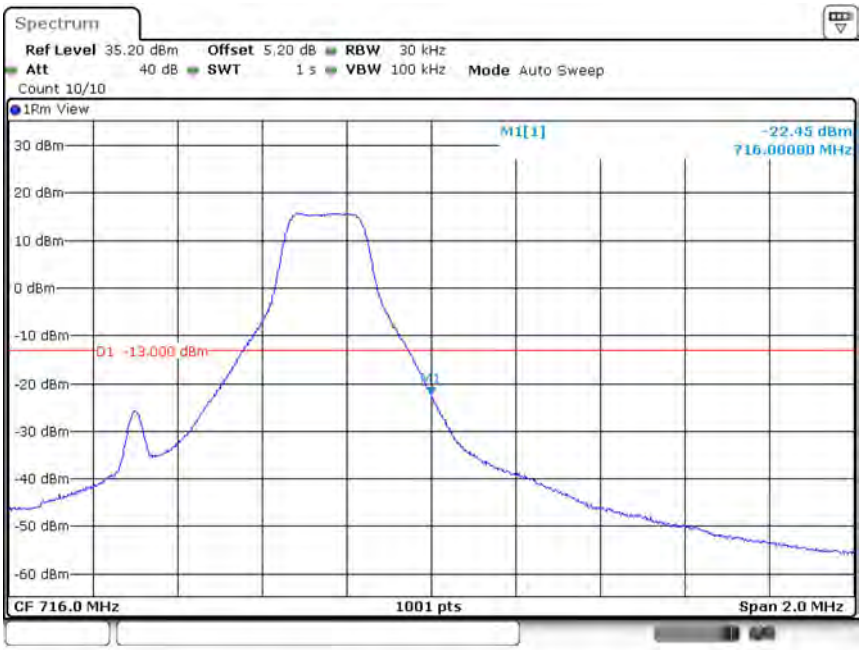
Band12-1.4MHz-64QAM-23017-6RB#0

Date: 19.AUG.2020 08:41:08

Band12-1.4MHz-64QAM-23173-1RB#5



Date: 19.AUG.2020 08:41:34

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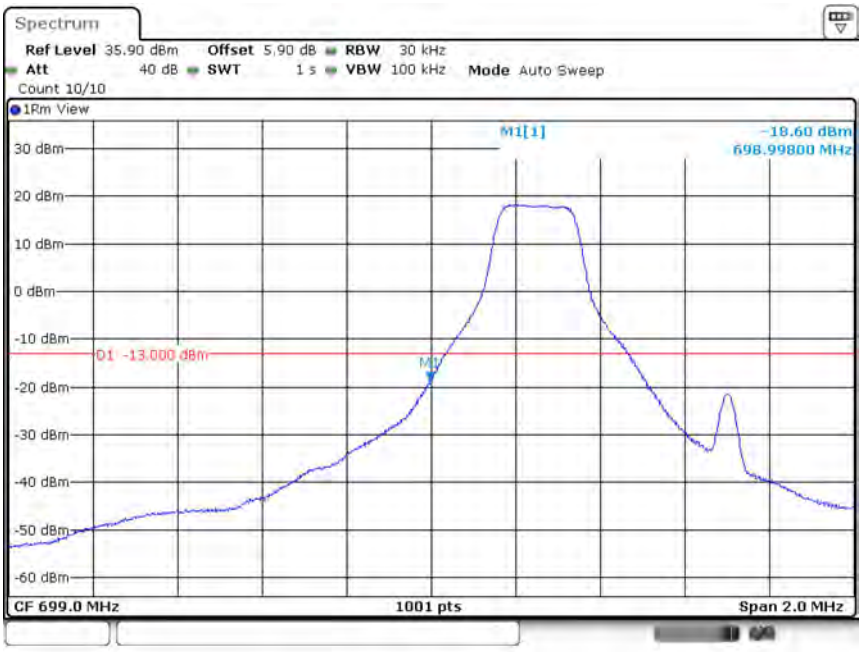
Band12-1.4MHz-64QAM-23173-6RB#0

Date: 19.AUG.2020 08:41:54

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



Date: 13.AUG.2020 08:46:04

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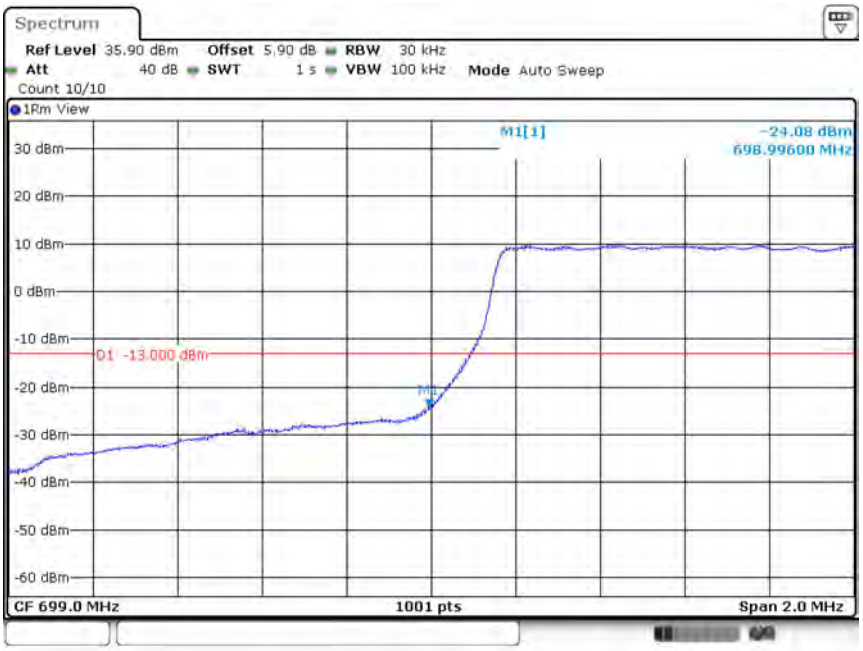
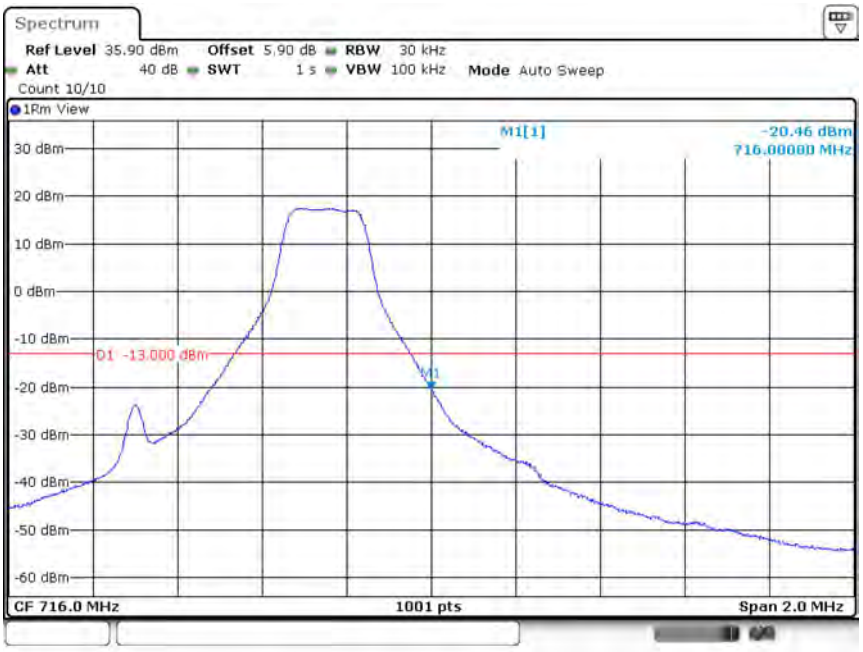
Band12-1.4MHz-16QAM-23017-6RB#0



Date: 13.AUG.2020 08:46:39

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



Date: 13.AUG.2020 08:47:15

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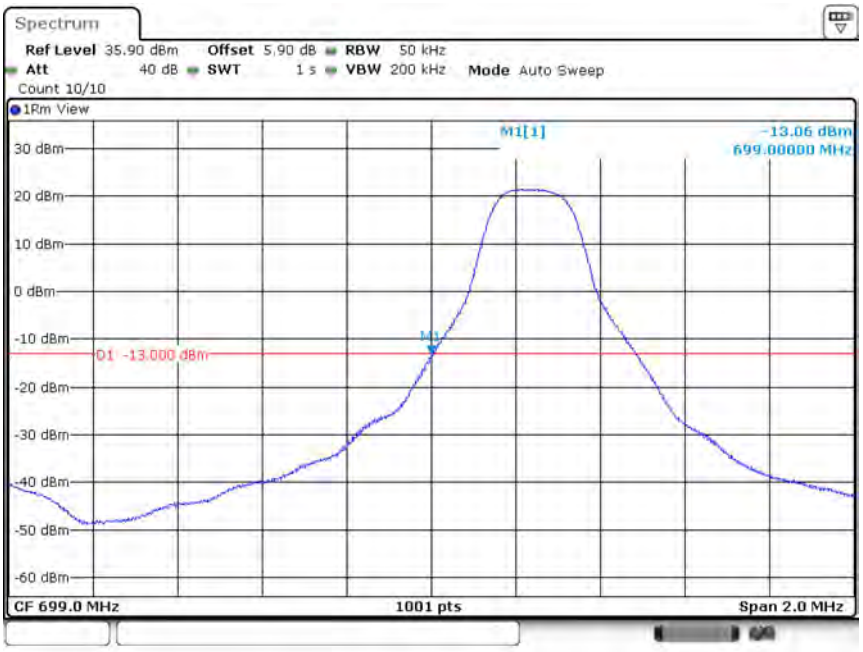
Band12-1.4MHz-16QAM-23173-6RB#0

Date: 13.AUG.2020 08:47:49

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



Date: 13.AUG.2020 08:48:09

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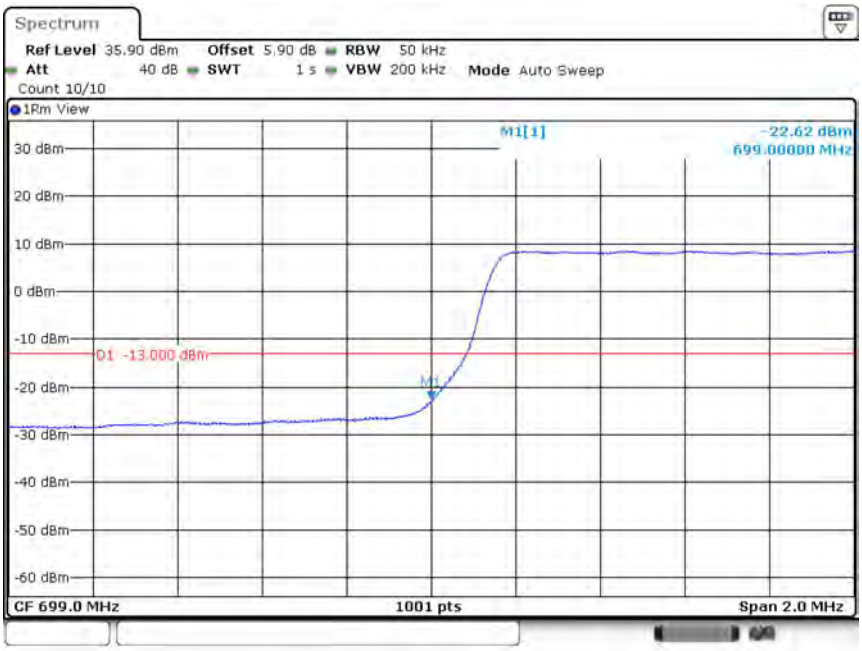
Band12-3MHz-QPSK-23025-15RB#0



Date: 13.AUG.2020 08:48:44

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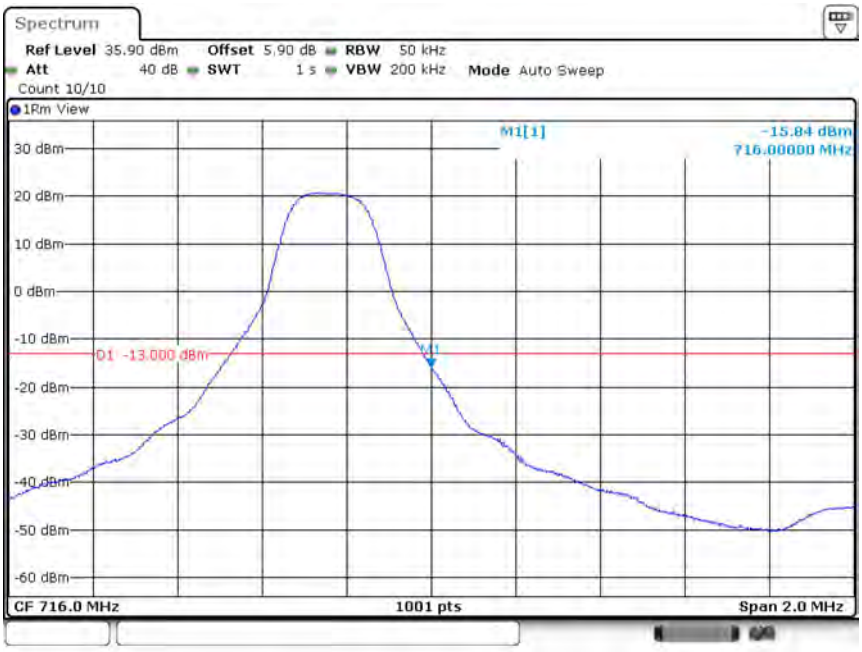

Date: 13.AUG.2020 08:49:20

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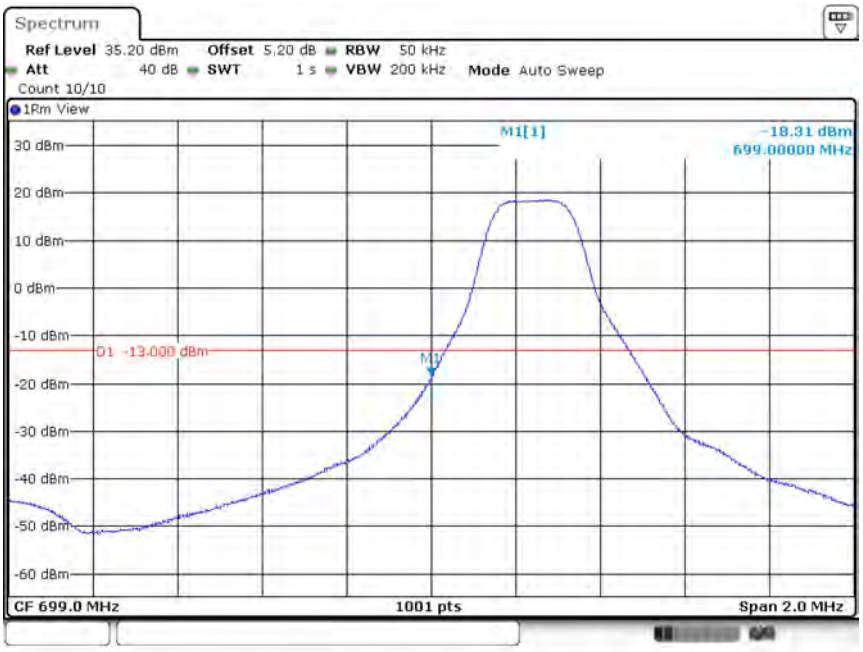
Date: 13.AUG.2020 08:49:56

Band12-3MHz-64QAM-23025-1RB#0



Date: 19.AUG.2020 08:42:22

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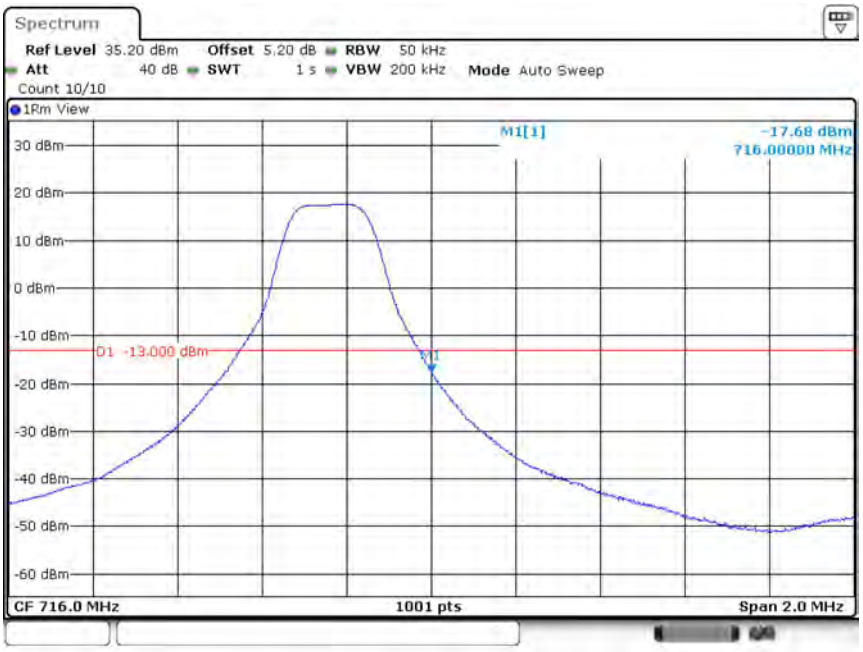
Band12-3MHz-64QAM-23025-15RB#0

Date: 19.AUG.2020 08:42:43

Band12-3MHz-64QAM-23165-1RB#14



Date: 1.SEP.2020 20:03:49

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Band12-3MHz-64QAM-23165-15RB#0

Date: 19.AUG.2020 08:43:30

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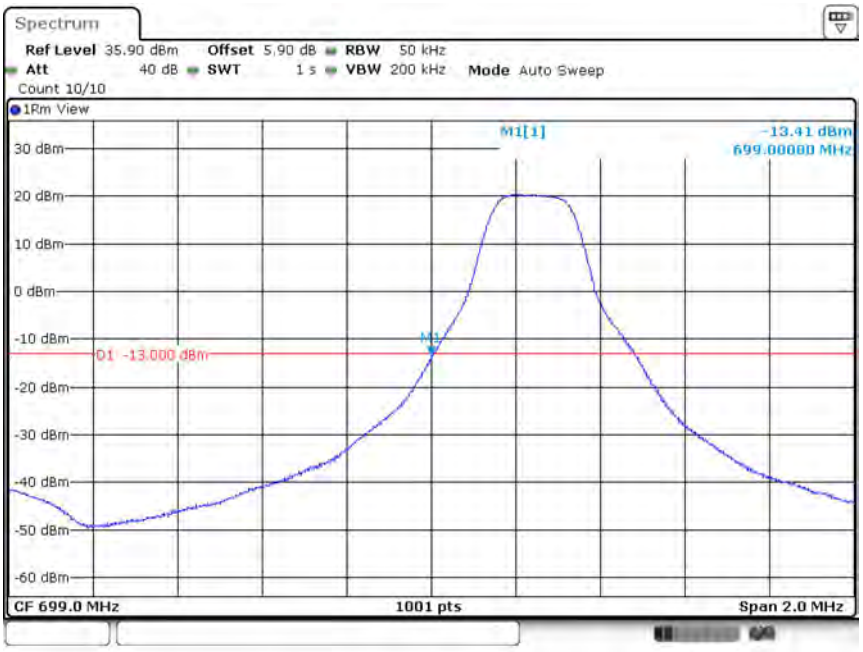

Date: 13.AUG.2020 08:48:27

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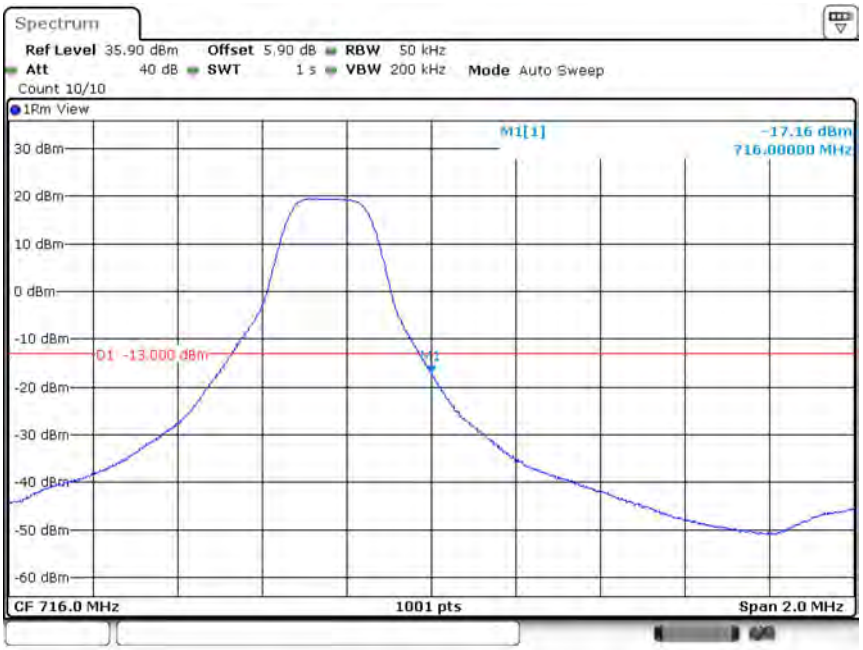
Band12-3MHz-16QAM-23025-15RB#0

Date: 13.AUG.2020 08:49:01

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



Date: 13.AUG.2020 08:49:37

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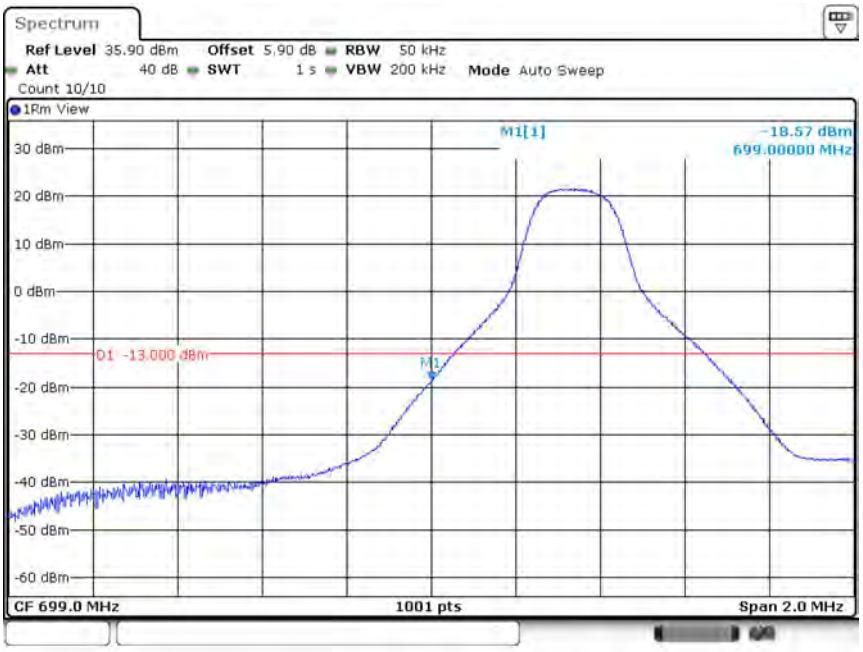
Band12-3MHz-16QAM-23165-15RB#0

Date: 13.AUG.2020 08:50:15

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



Date: 13.AUG.2020 08:50:34

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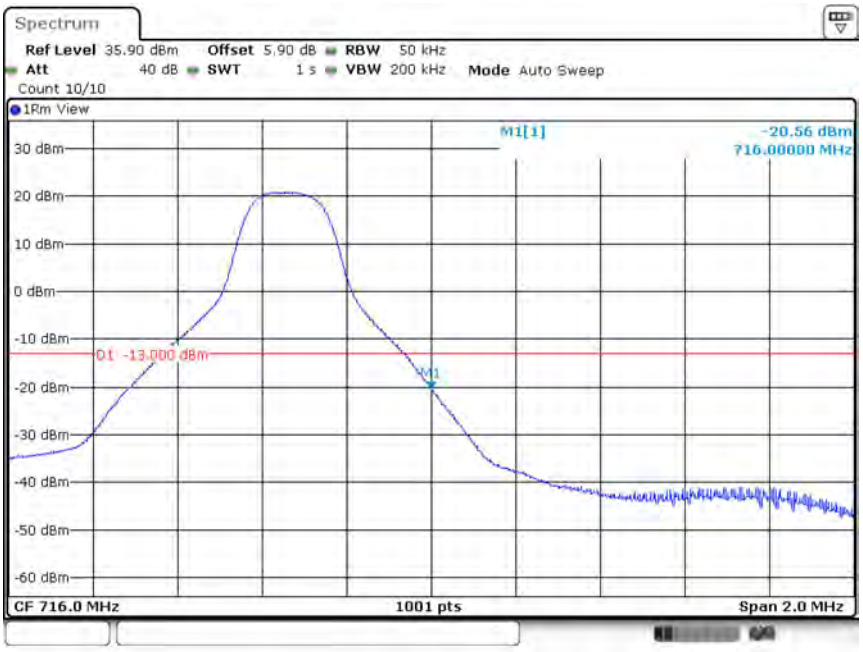
Band12-5MHz-QPSK-23035-25RB#0

Date: 13.AUG.2020 08:51:09

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



Date: 13.AUG.2020 08:51:45

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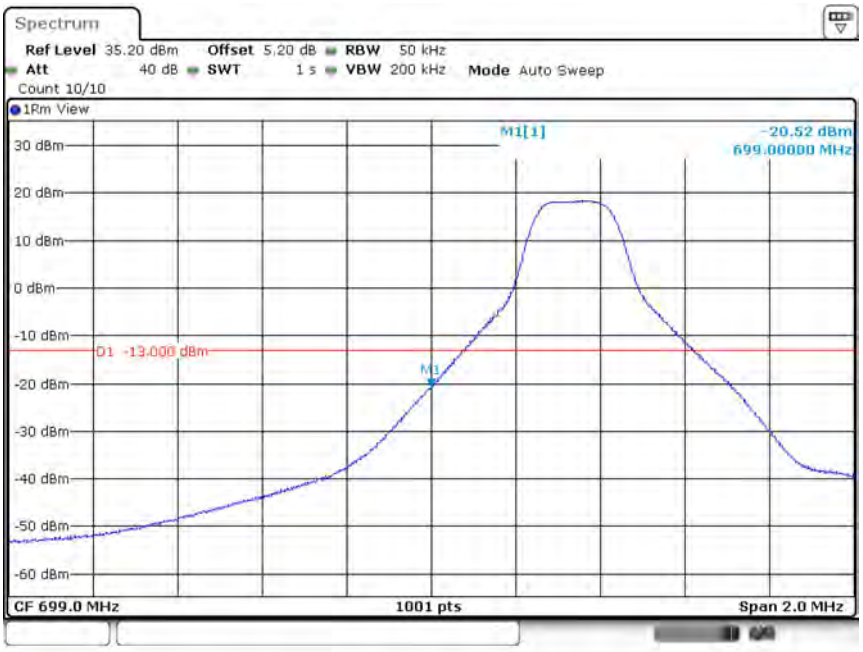
Band12-5MHz-QPSK-23155-25RB#0

Date: 13.AUG.2020 08:52:19

Band12-5MHz-64QAM-23035-1RB#0



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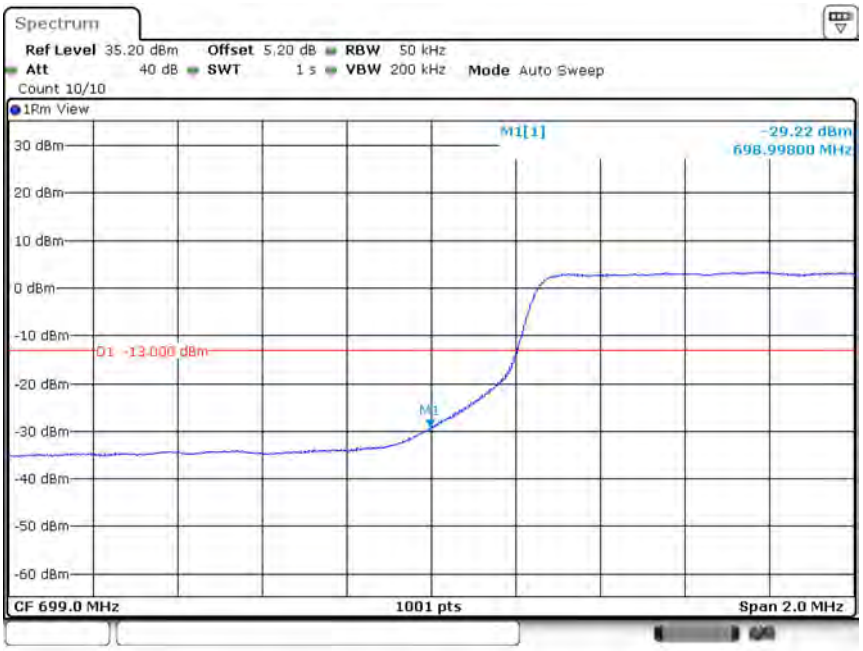
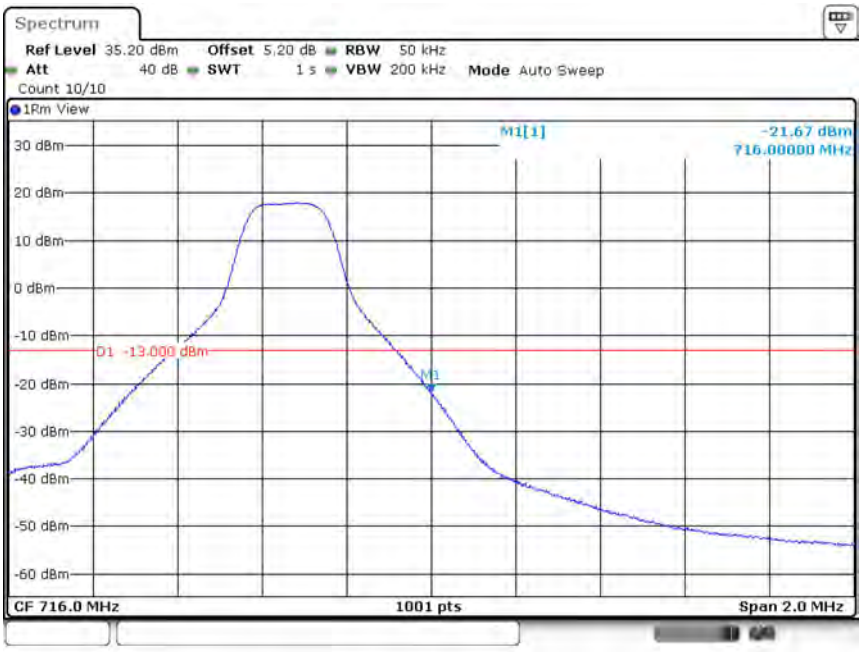
Band12-5MHz-64QAM-23035-25RB#0



Date: 19.AUG.2020 08:44:19

Band12-5MHz-64QAM-23155-1RB#24



Date: 19.AUG.2020 08:44:45

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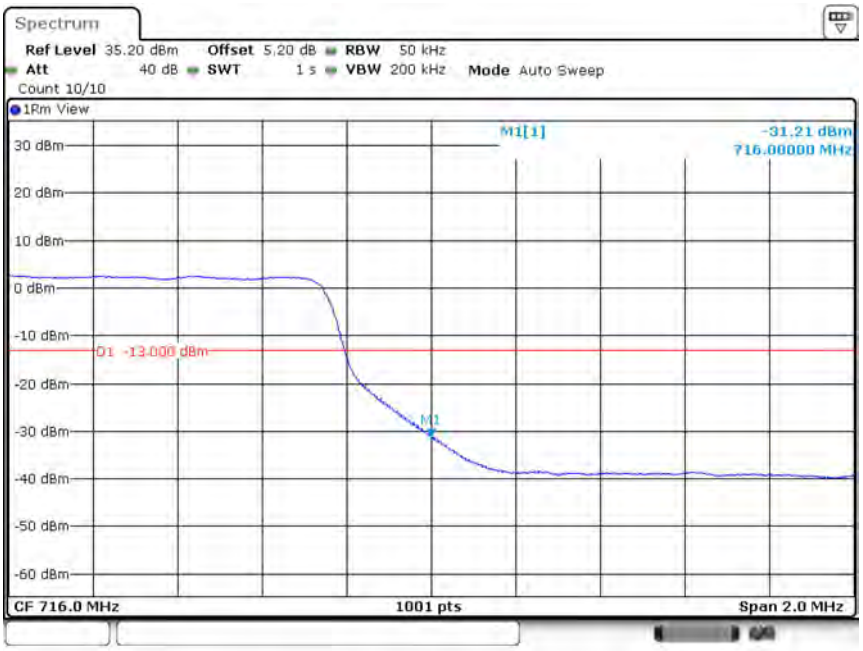
Band12-5MHz-64QAM-23155-25RB#0



Date: 19.AUG.2020 08:45:06

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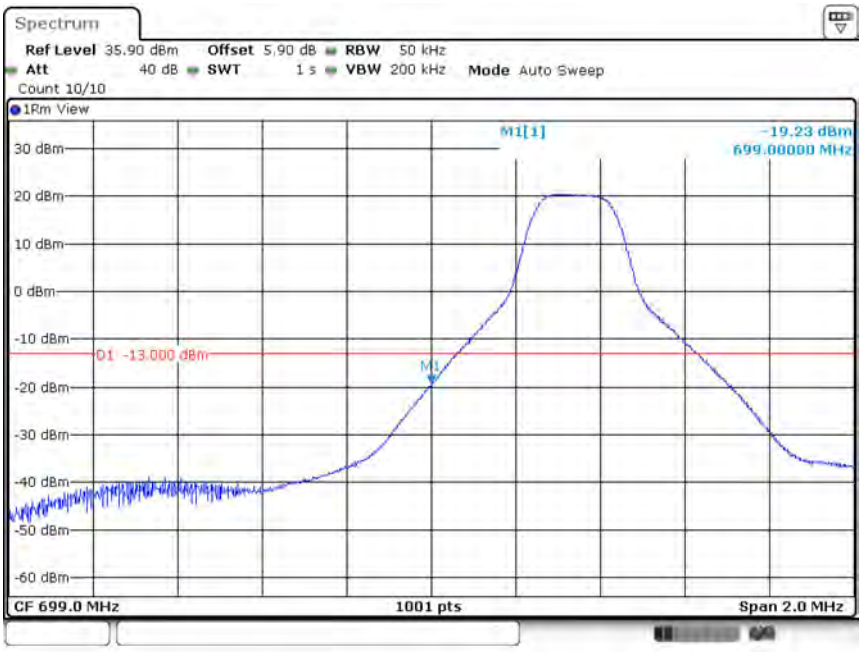

Date: 13.AUG.2020 08:50:51

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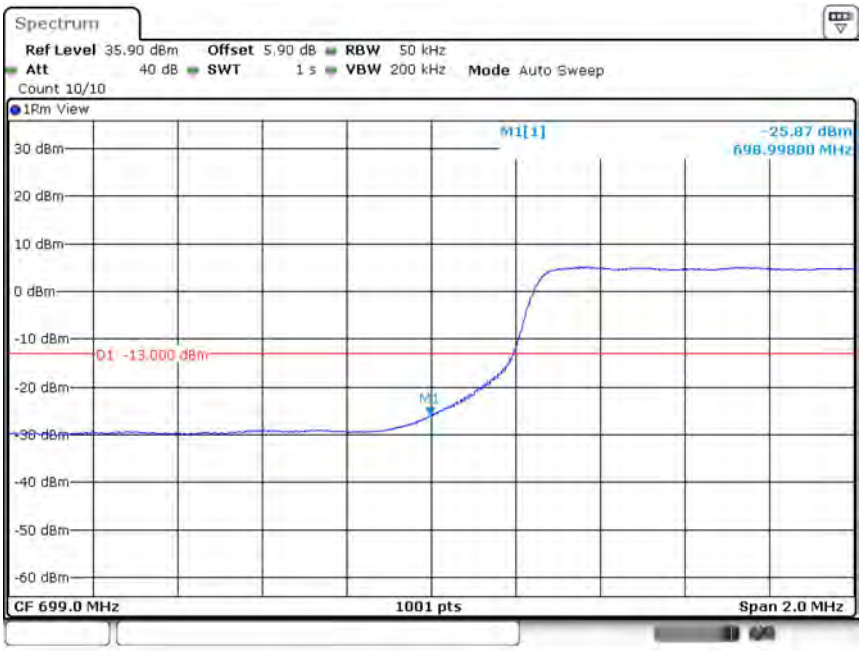
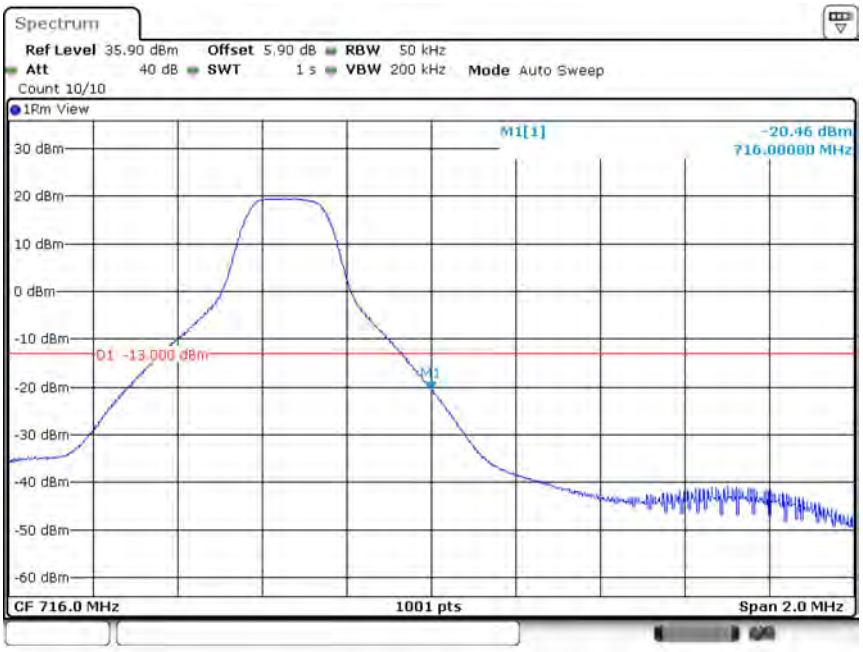


Date: 13.AUG.2020 08:51:26

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



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

Date: 13.AUG.2020 08:52:37

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

Date: 13.AUG.2020 08:52:57

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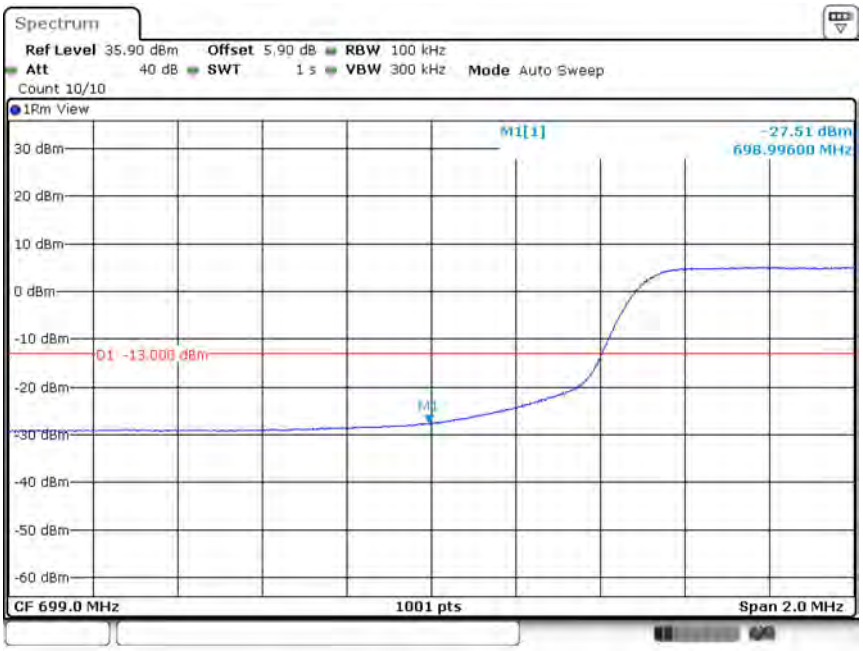
Band12-10MHz-QPSK-23060-50RB#0



Date: 13.AUG.2020 08:53:36

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

Date: 13.AUG.2020 08:54:12

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

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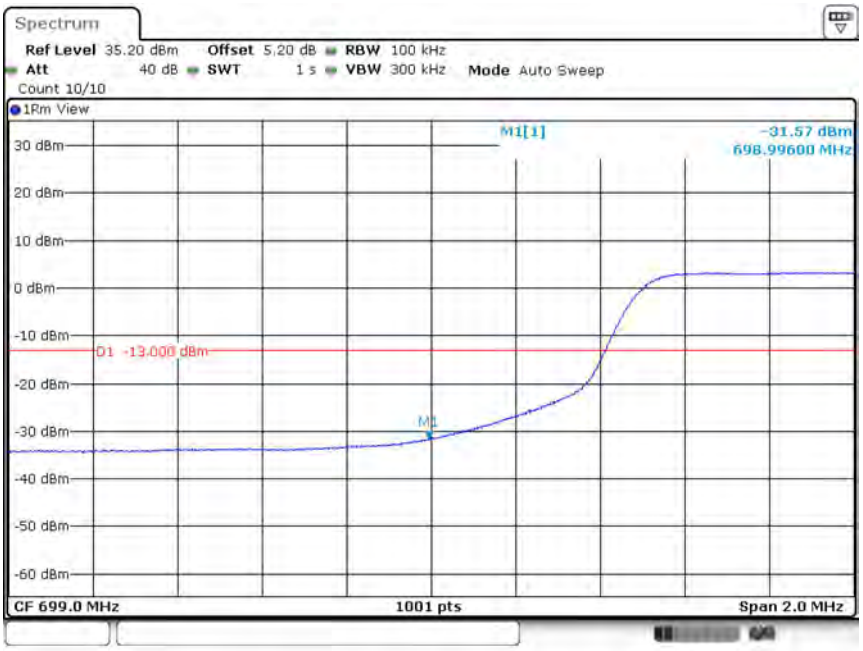

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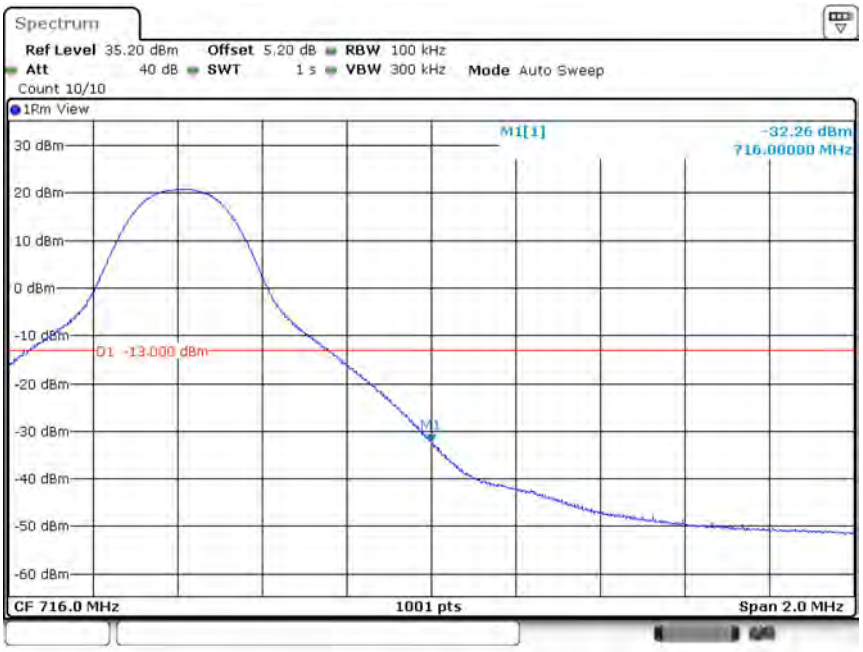
Band12-10MHz-64QAM-23130-1RB#49



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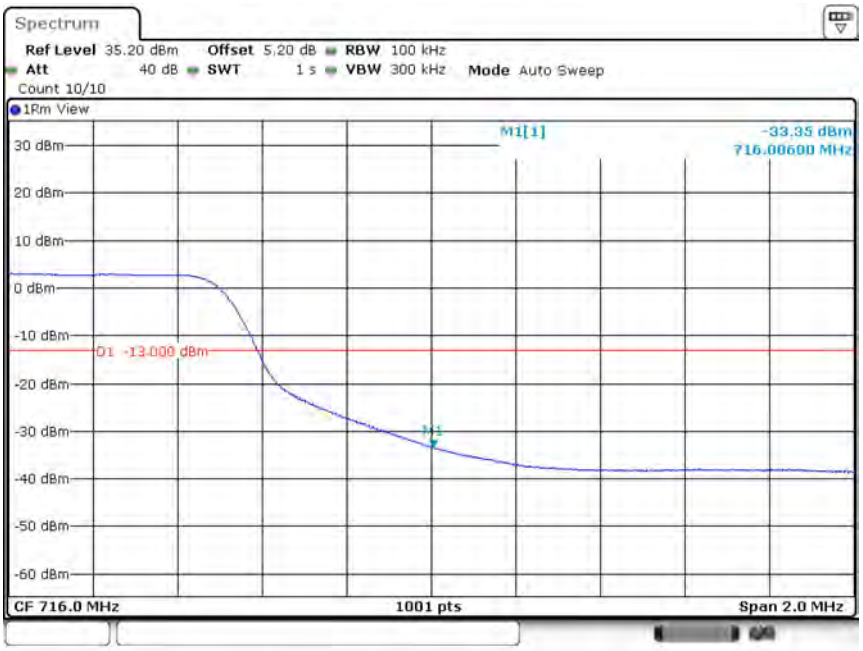
Band12-10MHz-64QAM-23130-50RB#0



Date: 19.AUG.2020 08:46:40

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

Date: 13.AUG.2020 08:53:15

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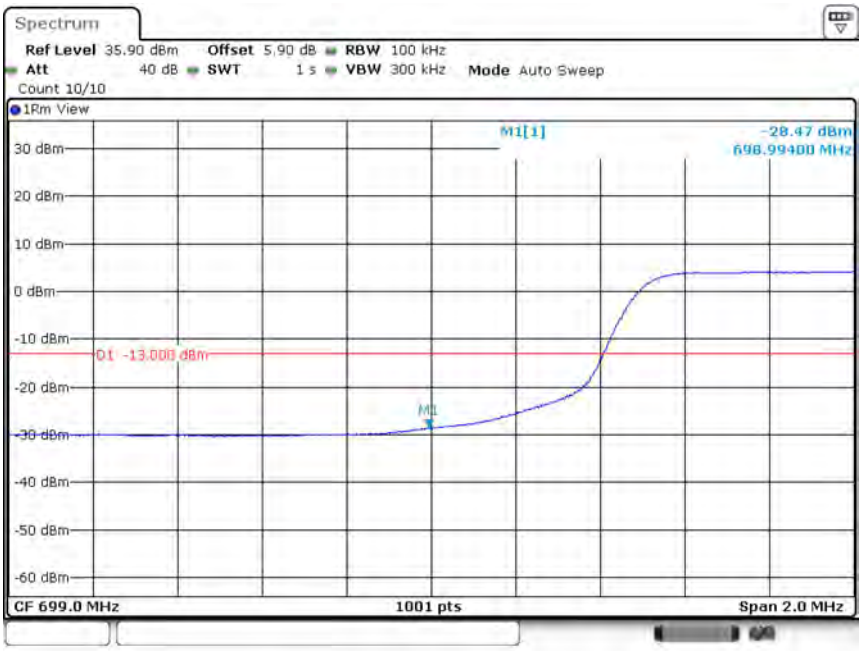
Band12-10MHz-16QAM-23060-50RB#0



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

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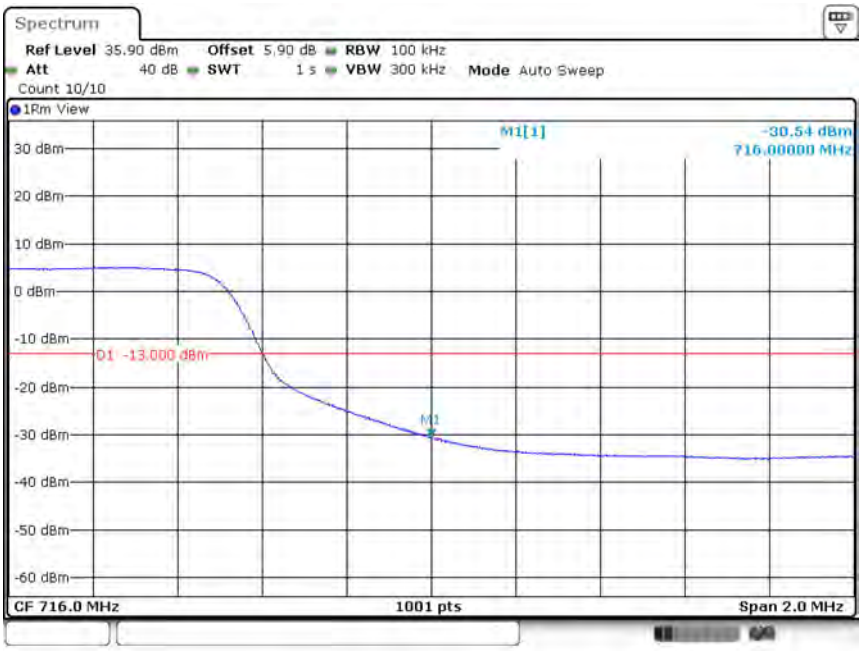
Band12-10MHz-16QAM-23130-50RB#0



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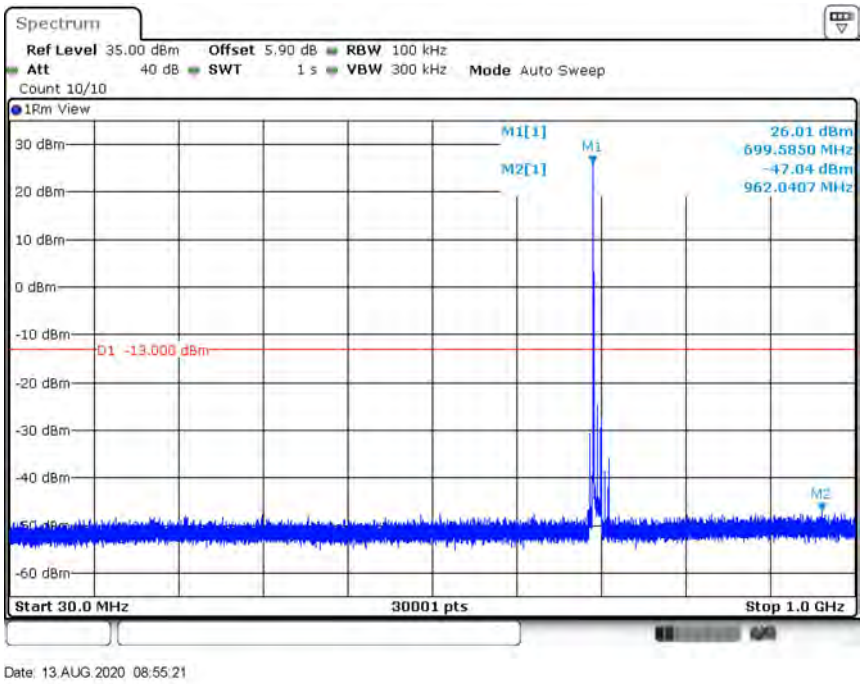
6. Spurious Emission at Antenna Terminal

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: only the worst case data displayed in this report.

6.1. Test Plots

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



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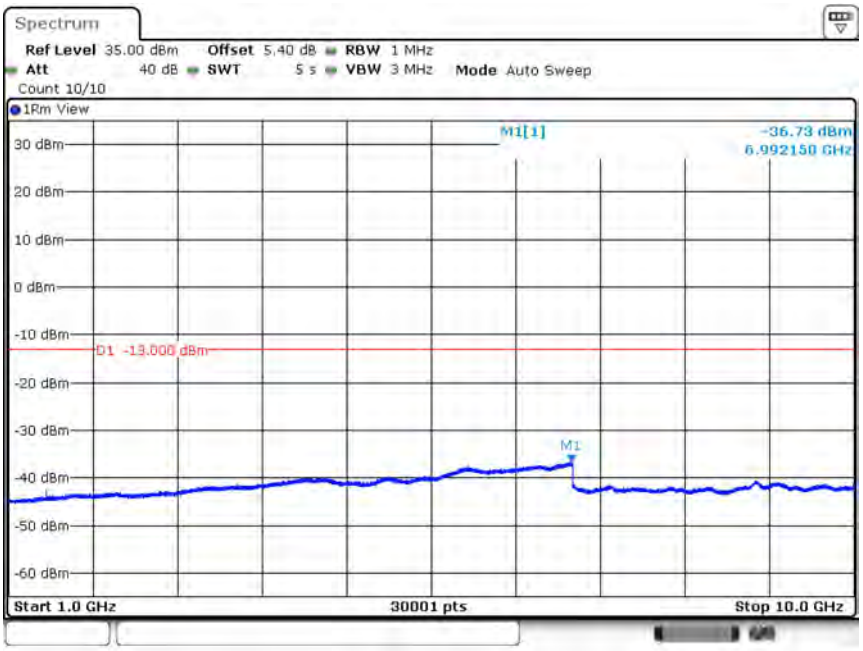
Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



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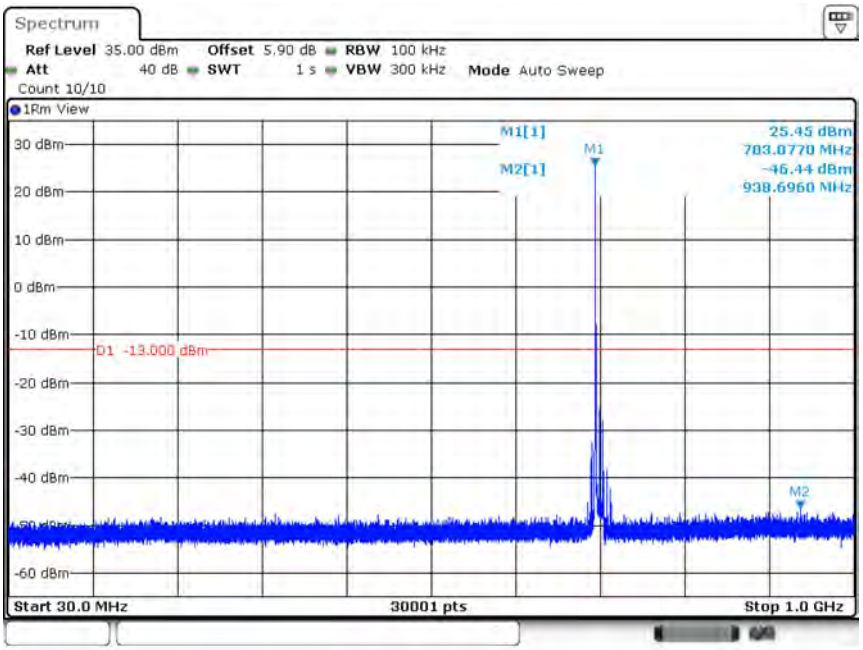
Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



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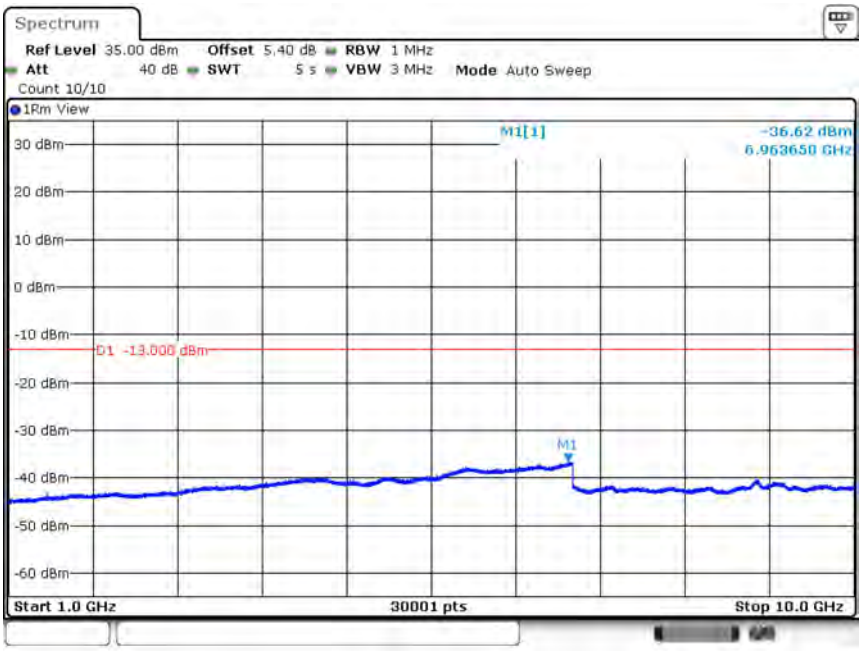
Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz



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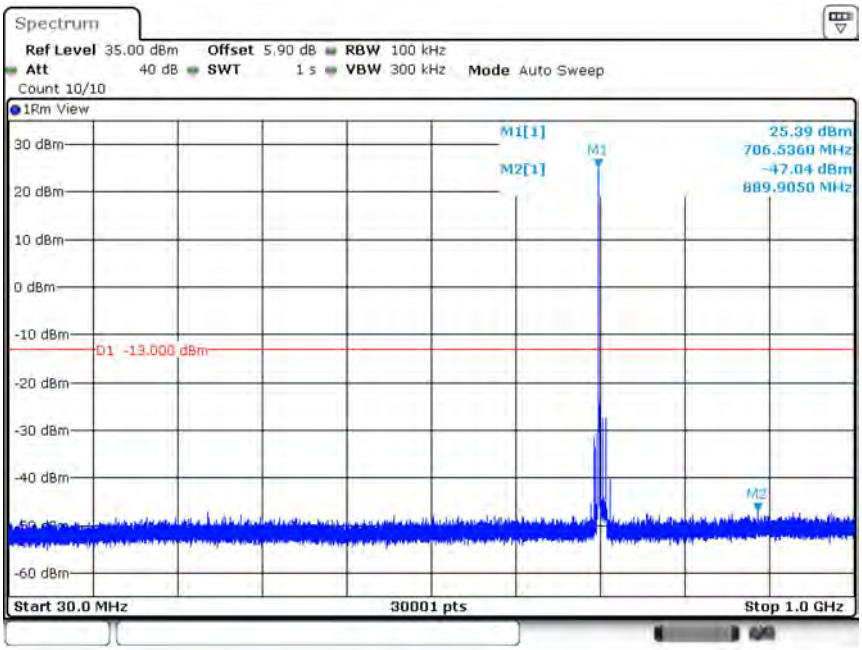
Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



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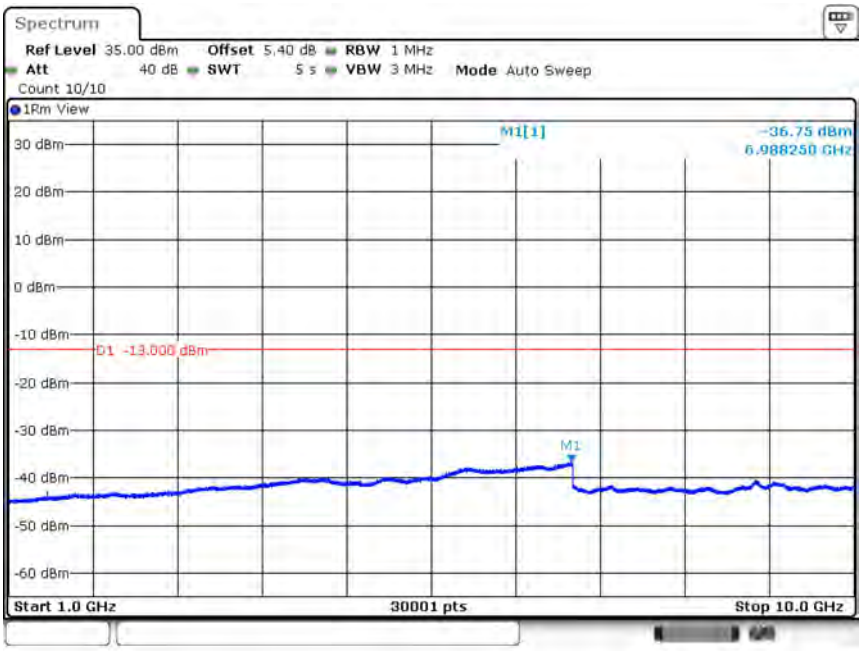
Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



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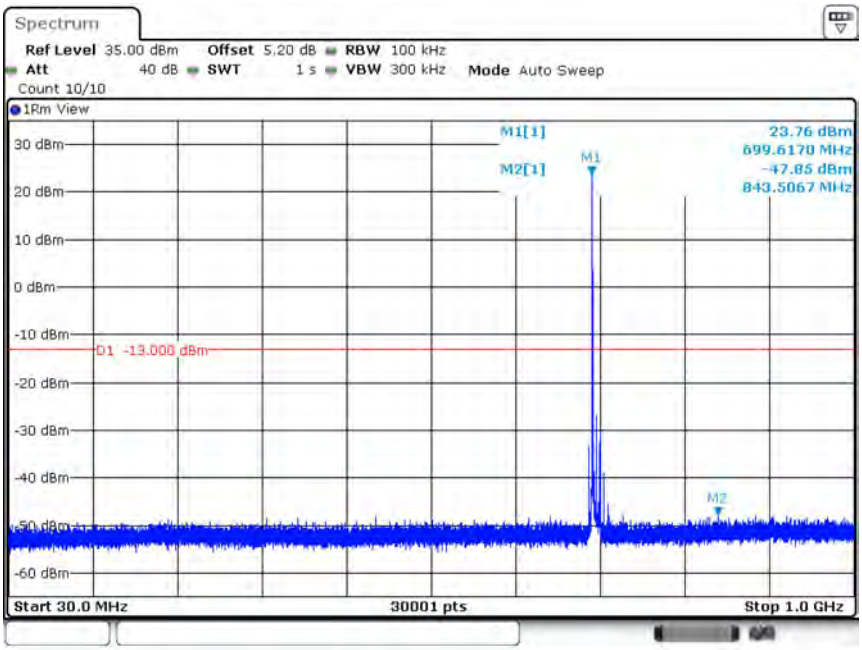

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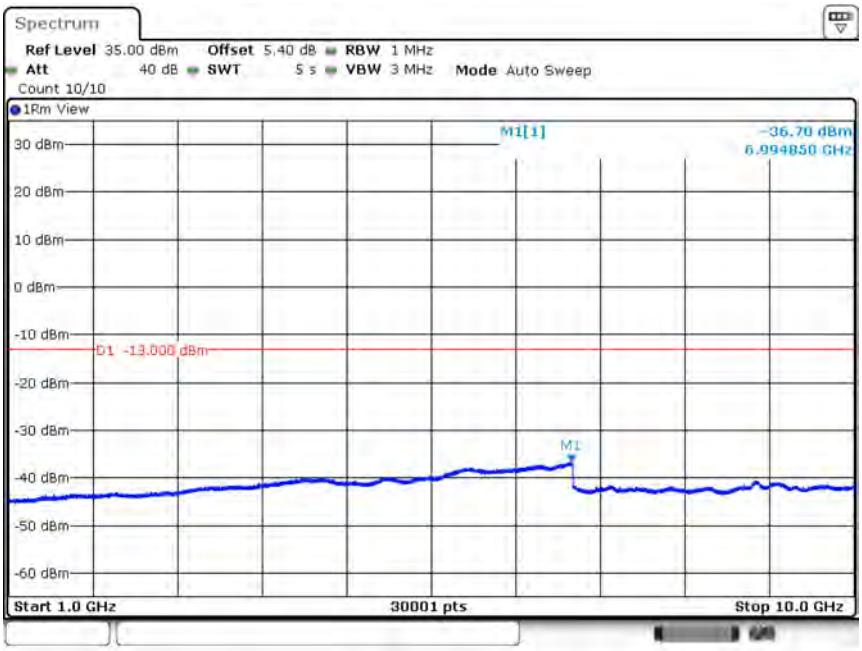
Band12-10MHz-64QAM-23060-1RB#0-Range2:1000~10000MHz



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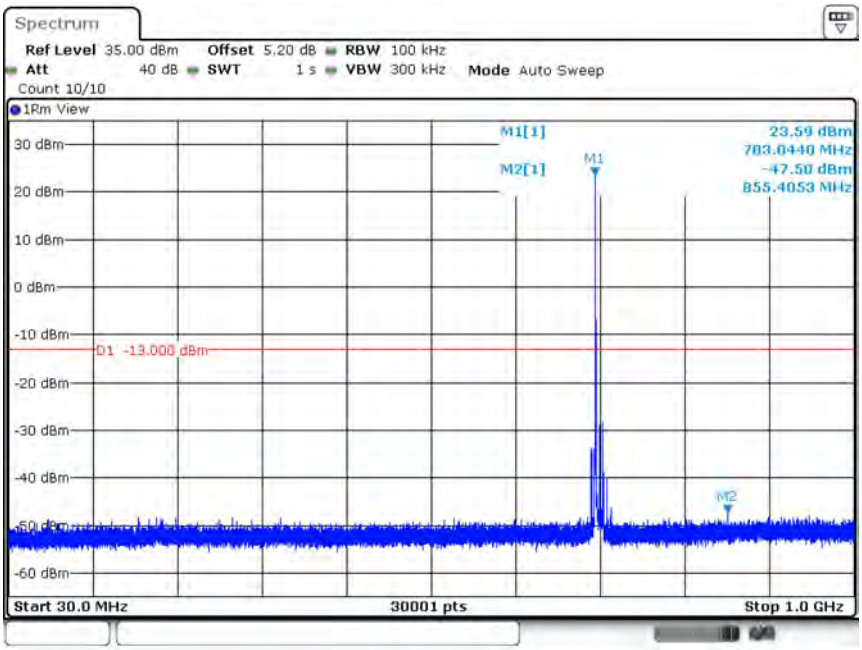

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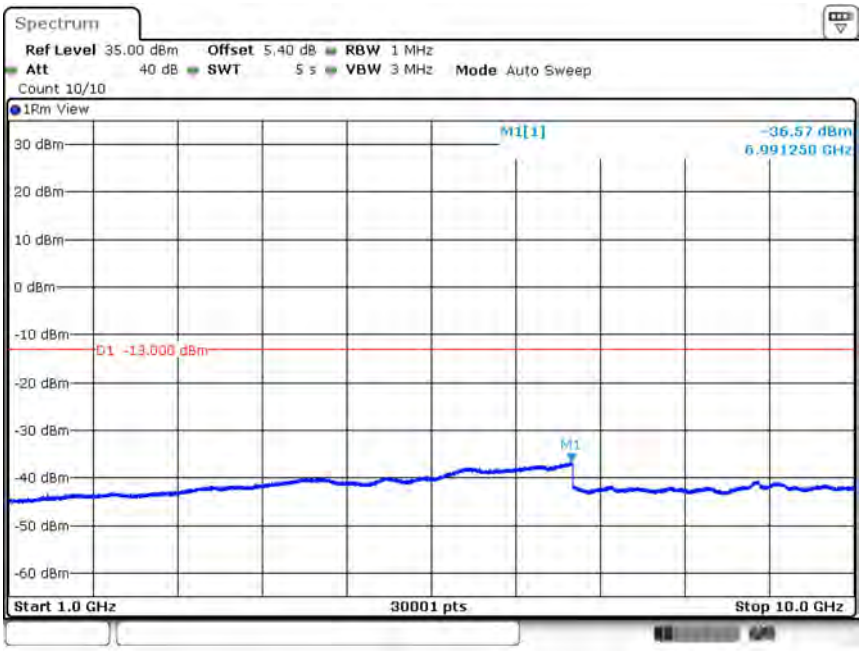
Band12-10MHz-64QAM-23095-1RB#0-Range2:1000~10000MHz



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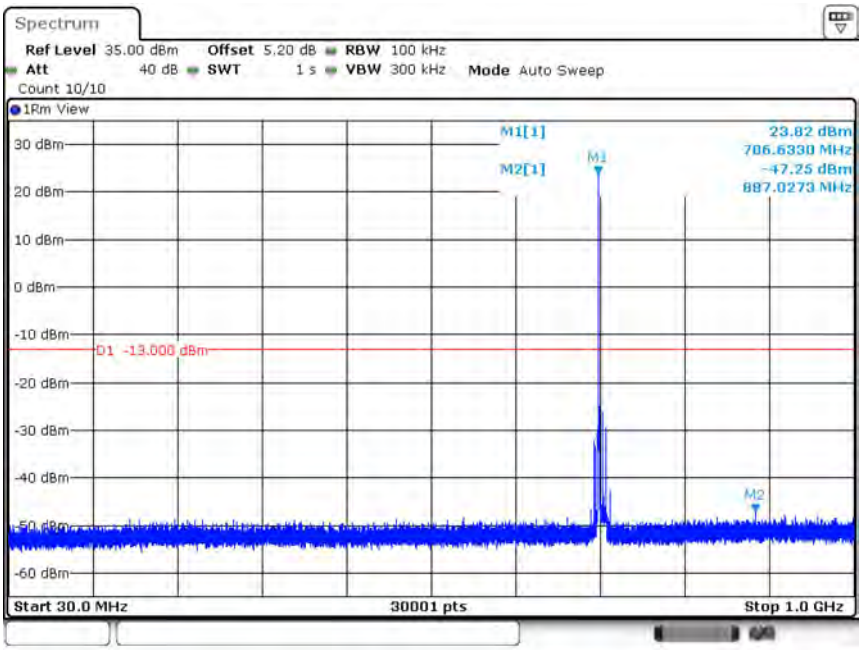

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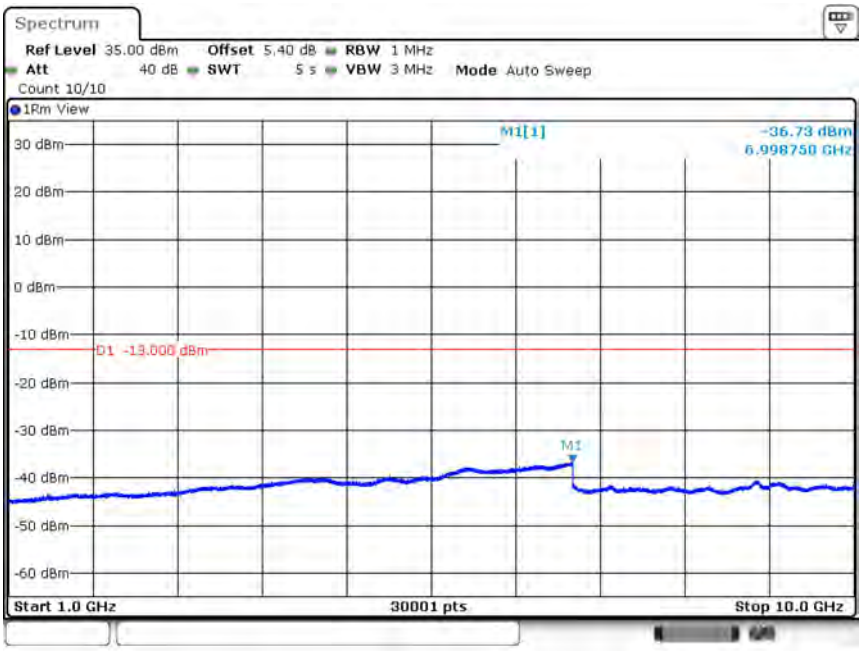

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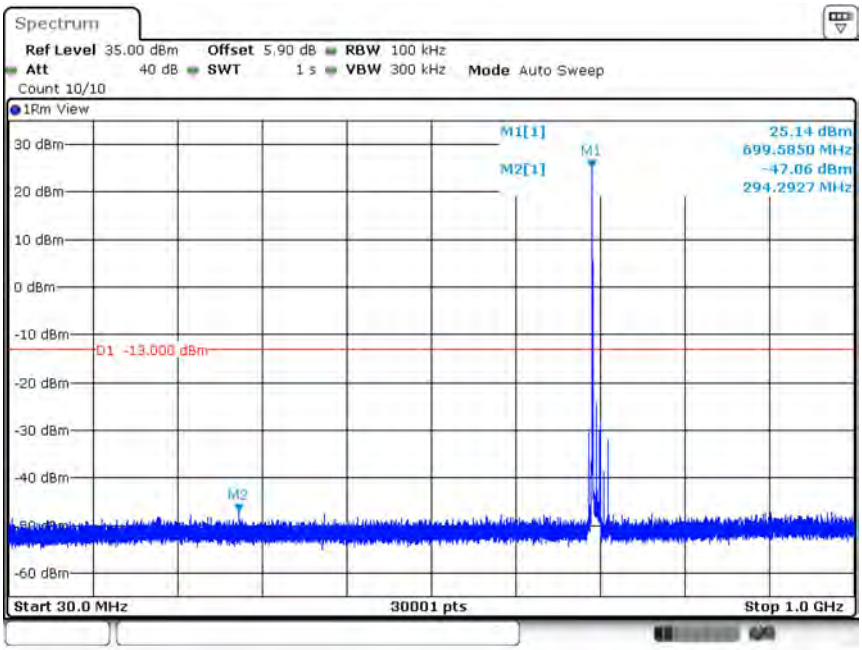

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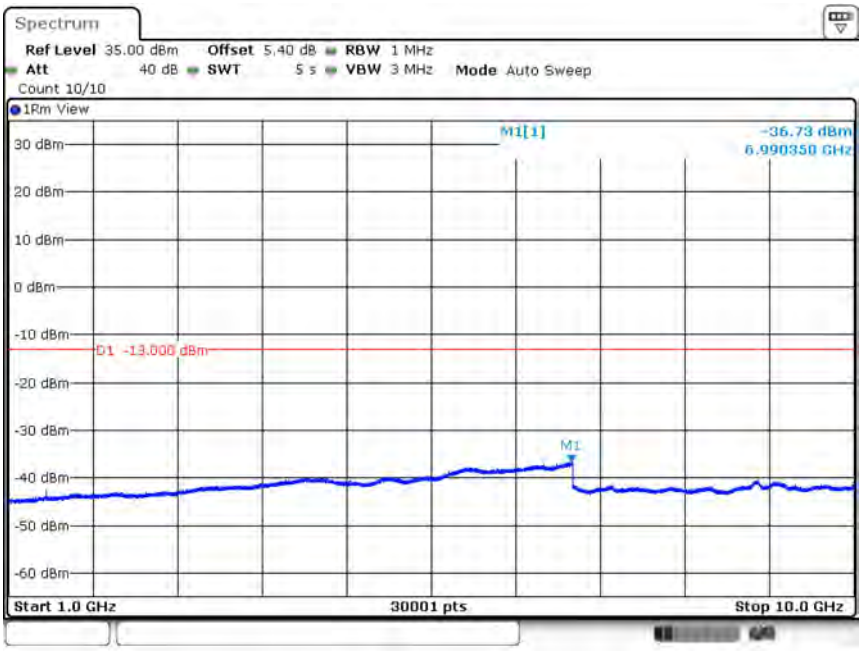
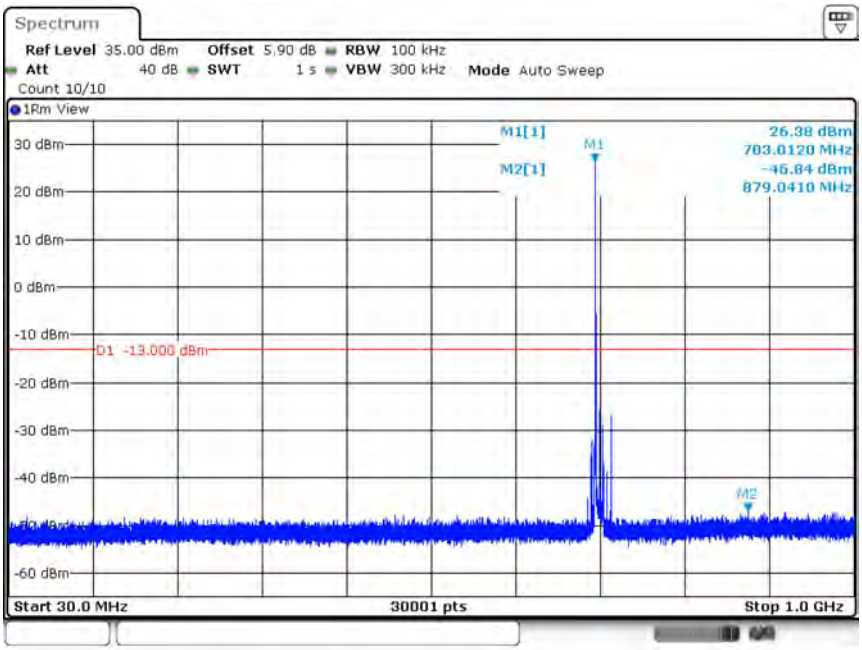


Date: 1.SEP.2020 20:35:06

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



Date: 13.AUG.2020 08:59:33

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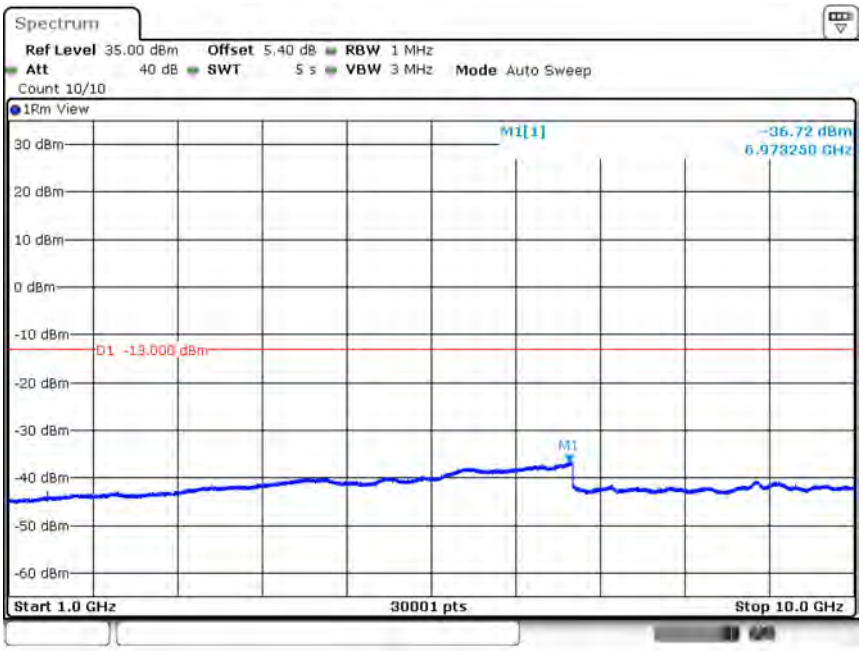
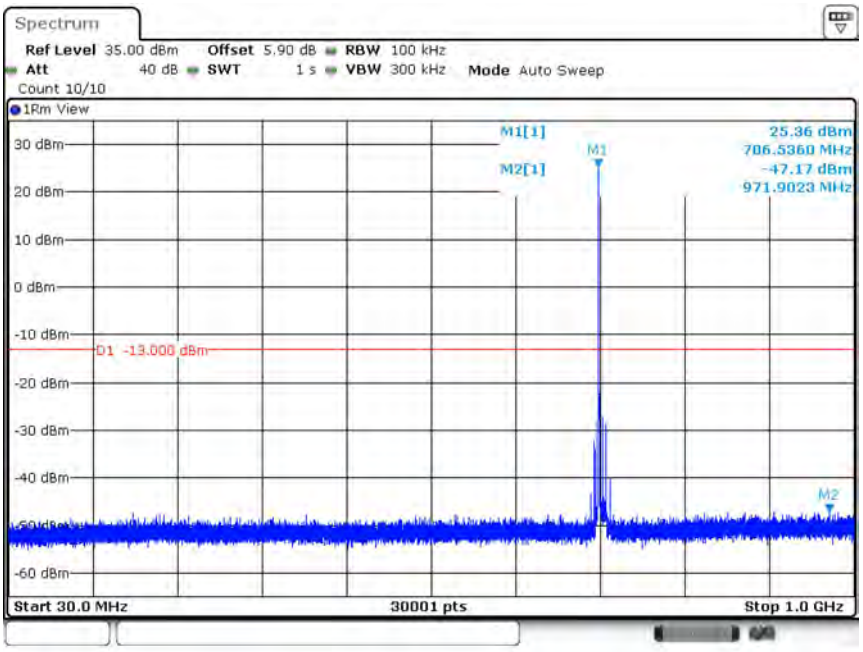
Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



Date: 1.SEP.2020 20:37:27

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



Date: 13.AUG.2020 09:02:22

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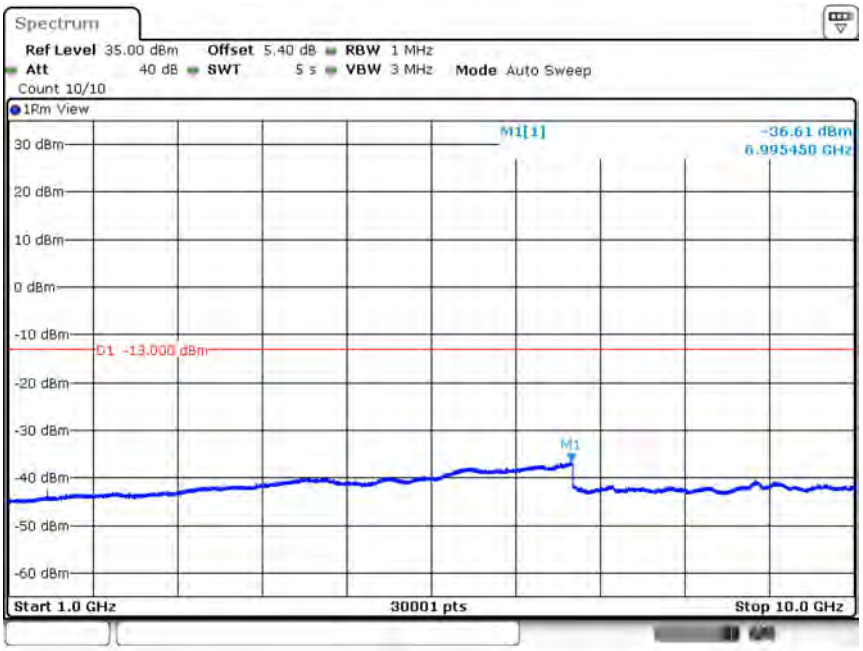
Band12-10MHz-16QAM-23130-1RB#0-Range2:1000~10000MHz



Date: 1.SEP.2020 20:39:50

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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 10MHz

7.1.1.Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.0615	-70.20	-13.00	57.20	Vertical
110.0775	-65.28	-13.00	52.28	Vertical
327.6594	-68.46	-13.00	55.46	Vertical
1398.8798	-60.48	-13.00	47.48	Vertical
2099.0198	-54.61	-13.00	41.61	Vertical
7356.6943	-55.08	-13.00	42.08	Vertical
41.1071	-63.66	-13.00	50.66	Horizontal
134.0377	-75.92	-13.00	62.92	Horizontal
243.0227	-68.36	-13.00	55.36	Horizontal
1398.8798	-57.43	-13.00	44.43	Horizontal
2098.6197	-46.87	-13.00	33.87	Horizontal
7482.6993	-55.88	-13.00	42.88	Horizontal

7.1.2.Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.4794	-69.20	-13.00	56.20	Vertical
108.2829	-64.69	-13.00	51.69	Vertical
383.5827	-68.35	-13.00	55.35	Vertical
1406.0812	-59.45	-13.00	46.45	Vertical
2109.4219	-52.72	-13.00	39.72	Vertical
7453.0181	-55.53	-13.00	42.53	Vertical
40.3310	-64.05	-13.00	51.05	Horizontal
106.0033	-75.94	-13.00	62.94	Horizontal
244.0897	-68.19	-13.00	55.19	Horizontal
1406.0812	-57.60	-13.00	44.60	Horizontal
2109.4219	-45.59	-13.00	32.59	Horizontal
7451.6181	-55.86	-13.00	42.86	Horizontal

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7.1.3.Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.7219	-69.50	-13.00	56.50	Vertical
112.4056	-65.01	-13.00	52.01	Vertical
296.1813	-68.71	-13.00	55.71	Vertical
1413.2827	-57.23	-13.00	44.23	Vertical
2119.8240	-50.35	-13.00	37.35	Vertical
7321.6929	-55.91	-13.00	42.91	Vertical
41.7861	-64.33	-13.00	51.33	Horizontal
103.5297	-75.20	-13.00	62.20	Horizontal
236.7658	-67.69	-13.00	54.69	Horizontal
1412.8826	-55.52	-13.00	42.52	Horizontal
2119.8240	-42.20	-13.00	29.20	Horizontal
7444.6178	-55.90	-13.00	42.90	Horizontal

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 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	-0.50	-0.000710	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-0.10	-0.000142	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	0.80	0.001136	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-0.30	-0.000424	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.20	0.000283	±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	-1.40	-0.001969	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-1.50	-0.002110	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-2.10	-0.002954	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VL	NT	-1.20	-0.001705	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VN	NT	3.00	0.004261	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	VH	NT	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VL	NT	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VN	NT	-0.80	-0.001131	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	VH	NT	-0.50	-0.000707	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VL	NT	-1.50	-0.002110	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VN	NT	-0.80	-0.001125	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	VH	NT	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	2.10	0.002983	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	2.00	0.002841	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	3.00	0.004261	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	1.60	0.002261	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	0.40	0.000565	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	2.00	0.002813	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	0.50	0.000703	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-0.60	-0.000844	±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	-0.20	-0.000284	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-0.20	-0.000284	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	1.10	0.001563	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-1.30	-0.001847	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-0.40	-0.000568	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	3.10	0.004403	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	1.90	0.002699	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	0.50	0.000710	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-1.30	-0.001847	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.60	0.000848	±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	1.80	0.002544	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-2.40	-0.003392	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-3.30	-0.004664	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.10	-0.002968	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.20	0.000283	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.60	-0.000848	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.20	-0.001696	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	1.00	0.001406	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-1.50	-0.002110	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-0.40	-0.000563	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	0.40	0.000563	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	1.80	0.002532	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-2.70	-0.003797	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-1.70	-0.002391	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-1.40	-0.001969	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-30	0.30	0.000426	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-20	0.20	0.000284	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	-10	-1.00	-0.001420	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	0	2.60	0.003693	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	10	1.40	0.001989	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	20	2.20	0.003125	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	30	2.70	0.003835	±2.5	PASS

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Band12	10MHz	64QAM	23060	50RB#0	NV	40	2.10	0.002983	±2.5	PASS
Band12	10MHz	64QAM	23060	50RB#0	NV	50	2.10	0.002983	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-30	-0.60	-0.000848	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-20	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	-10	1.30	0.001837	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	10	1.20	0.001696	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	20	0.40	0.000565	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	30	0.60	0.000848	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	40	-0.20	-0.000283	±2.5	PASS
Band12	10MHz	64QAM	23095	50RB#0	NV	50	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-30	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-20	-1.70	-0.002391	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	-10	1.00	0.001406	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	0	-0.10	-0.000141	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	10	1.20	0.001688	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	30	0.10	0.000141	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	40	0.30	0.000422	±2.5	PASS
Band12	10MHz	64QAM	23130	50RB#0	NV	50	-1.70	-0.002391	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	1.10	0.001563	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-1.00	-0.001420	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	1.90	0.002699	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-0.60	-0.000852	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	0.20	0.000284	±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
Band12	10MHz	16QAM	23060	50RB#0	NV	40	-0.60	-0.000852	±2.5	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-1.30	-0.001847	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	1.00	0.001413	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-1.80	-0.002544	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	1.90	0.002686	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	0.00	0.000000	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-3.20	-0.004523	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	0.90	0.001272	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-2.20	-0.003110	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-1.40	-0.001979	±2.5	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	0.50	0.000707	±2.5	PASS

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Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-3.00	-0.004219	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-0.70	-0.000985	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-3.10	-0.004360	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-0.60	-0.000844	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	1.10	0.001547	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-1.10	-0.001547	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-1.10	-0.001547	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-1.20	-0.001688	±2.5	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-1.50	-0.002110	±2.5	PASS

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