



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	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
BAND12	1.4MHz	QPSK	23017	1RB#0	23.29	24.14	34.77	PASS
BAND12	1.4MHz	QPSK	23017	1RB#2	23.26	24.11	34.77	PASS
BAND12	1.4MHz	QPSK	23017	1RB#5	23.30	24.15	34.77	PASS
BAND12	1.4MHz	QPSK	23017	3RB#0	23.28	24.13	34.77	PASS
BAND12	1.4MHz	QPSK	23017	3RB#1	23.26	24.11	34.77	PASS
BAND12	1.4MHz	QPSK	23017	3RB#3	23.27	24.12	34.77	PASS
BAND12	1.4MHz	QPSK	23017	6RB#0	22.28	23.13	34.77	PASS
BAND12	1.4MHz	QPSK	23095	1RB#0	23.54	24.39	34.77	PASS
BAND12	1.4MHz	QPSK	23095	1RB#2	23.53	24.38	34.77	PASS
BAND12	1.4MHz	QPSK	23095	1RB#5	23.54	24.39	34.77	PASS
BAND12	1.4MHz	QPSK	23095	3RB#0	23.53	24.38	34.77	PASS
BAND12	1.4MHz	QPSK	23095	3RB#1	23.52	24.37	34.77	PASS
BAND12	1.4MHz	QPSK	23095	3RB#3	23.51	24.36	34.77	PASS
BAND12	1.4MHz	QPSK	23095	6RB#0	22.54	23.39	34.77	PASS
BAND12	1.4MHz	QPSK	23173	1RB#0	23.82	24.67	34.77	PASS
BAND12	1.4MHz	QPSK	23173	1RB#2	23.76	24.61	34.77	PASS
BAND12	1.4MHz	QPSK	23173	1RB#5	23.85	24.70	34.77	PASS
BAND12	1.4MHz	QPSK	23173	3RB#0	23.76	24.61	34.77	PASS
BAND12	1.4MHz	QPSK	23173	3RB#1	23.75	24.60	34.77	PASS
BAND12	1.4MHz	QPSK	23173	3RB#3	23.80	24.65	34.77	PASS
BAND12	1.4MHz	QPSK	23173	6RB#0	22.80	23.65	34.77	PASS
BAND12	1.4MHz	16QAM	23017	1RB#0	22.55	23.40	34.77	PASS
BAND12	1.4MHz	16QAM	23017	1RB#2	22.37	23.22	34.77	PASS
BAND12	1.4MHz	16QAM	23017	1RB#5	22.47	23.32	34.77	PASS
BAND12	1.4MHz	16QAM	23017	3RB#0	22.31	23.16	34.77	PASS
BAND12	1.4MHz	16QAM	23017	3RB#1	22.33	23.18	34.77	PASS
BAND12	1.4MHz	16QAM	23017	3RB#3	22.32	23.17	34.77	PASS
BAND12	1.4MHz	16QAM	23017	6RB#0	21.30	22.15	34.77	PASS
BAND12	1.4MHz	16QAM	23095	1RB#0	22.77	23.62	34.77	PASS
BAND12	1.4MHz	16QAM	23095	1RB#2	22.62	23.47	34.77	PASS
BAND12	1.4MHz	16QAM	23095	1RB#5	22.77	23.62	34.77	PASS
BAND12	1.4MHz	16QAM	23095	3RB#0	22.63	23.48	34.77	PASS
BAND12	1.4MHz	16QAM	23095	3RB#1	22.62	23.47	34.77	PASS
BAND12	1.4MHz	16QAM	23095	3RB#3	22.53	23.38	34.77	PASS



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BAND12	1.4MHz	16QAM	23095	6RB#0	21.60	22.45	34.77	PASS
BAND12	1.4MHz	16QAM	23173	1RB#0	22.86	23.71	34.77	PASS
BAND12	1.4MHz	16QAM	23173	1RB#2	22.93	23.78	34.77	PASS
BAND12	1.4MHz	16QAM	23173	1RB#5	22.93	23.78	34.77	PASS
BAND12	1.4MHz	16QAM	23173	3RB#0	22.85	23.70	34.77	PASS
BAND12	1.4MHz	16QAM	23173	3RB#1	22.81	23.66	34.77	PASS
BAND12	1.4MHz	16QAM	23173	3RB#3	22.80	23.65	34.77	PASS
BAND12	1.4MHz	16QAM	23173	6RB#0	21.81	22.66	34.77	PASS
BAND12	1.4MHz	64QAM	23017	1RB#0	21.48	22.33	34.77	PASS
BAND12	1.4MHz	64QAM	23017	1RB#2	21.36	22.21	34.77	PASS
BAND12	1.4MHz	64QAM	23017	1RB#5	21.67	22.52	34.77	PASS
BAND12	1.4MHz	64QAM	23017	3RB#0	21.14	21.99	34.77	PASS
BAND12	1.4MHz	64QAM	23017	3RB#1	21.43	22.28	34.77	PASS
BAND12	1.4MHz	64QAM	23017	3RB#3	21.16	22.01	34.77	PASS
BAND12	1.4MHz	64QAM	23017	6RB#0	20.14	20.99	34.77	PASS
BAND12	1.4MHz	64QAM	23095	1RB#0	21.77	22.62	34.77	PASS
BAND12	1.4MHz	64QAM	23095	1RB#2	21.76	22.61	34.77	PASS
BAND12	1.4MHz	64QAM	23095	1RB#5	21.94	22.79	34.77	PASS
BAND12	1.4MHz	64QAM	23095	3RB#0	21.69	22.54	34.77	PASS
BAND12	1.4MHz	64QAM	23095	3RB#1	21.62	22.47	34.77	PASS
BAND12	1.4MHz	64QAM	23095	3RB#3	21.39	22.24	34.77	PASS
BAND12	1.4MHz	64QAM	23095	6RB#0	20.61	21.46	34.77	PASS
BAND12	1.4MHz	64QAM	23173	1RB#0	21.82	22.67	34.77	PASS
BAND12	1.4MHz	64QAM	23173	1RB#2	21.88	22.73	34.77	PASS
BAND12	1.4MHz	64QAM	23173	1RB#5	21.73	22.58	34.77	PASS
BAND12	1.4MHz	64QAM	23173	3RB#0	21.77	22.62	34.77	PASS
BAND12	1.4MHz	64QAM	23173	3RB#1	21.85	22.70	34.77	PASS
BAND12	1.4MHz	64QAM	23173	3RB#3	21.64	22.49	34.77	PASS
BAND12	1.4MHz	64QAM	23173	6RB#0	20.80	21.65	34.77	PASS
BAND12	3MHz	QPSK	23025	1RB#0	23.25	24.10	34.77	PASS
BAND12	3MHz	QPSK	23025	1RB#14	23.40	24.25	34.77	PASS
BAND12	3MHz	QPSK	23025	1RB#8	23.26	24.11	34.77	PASS
BAND12	3MHz	QPSK	23025	8RB#0	22.30	23.15	34.77	PASS
BAND12	3MHz	QPSK	23025	8RB#4	22.27	23.12	34.77	PASS
BAND12	3MHz	QPSK	23025	8RB#7	22.32	23.17	34.77	PASS
BAND12	3MHz	QPSK	23025	15RB#0	22.26	23.11	34.77	PASS
BAND12	3MHz	QPSK	23095	1RB#0	23.51	24.36	34.77	PASS
BAND12	3MHz	QPSK	23095	1RB#14	23.62	24.47	34.77	PASS
BAND12	3MHz	QPSK	23095	1RB#8	23.51	24.36	34.77	PASS
BAND12	3MHz	QPSK	23095	8RB#0	22.55	23.40	34.77	PASS
BAND12	3MHz	QPSK	23095	8RB#4	22.52	23.37	34.77	PASS

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BAND12	3MHz	QPSK	23095	8RB#7	22.58	23.43	34.77	PASS
BAND12	3MHz	QPSK	23095	15RB#0	22.53	23.38	34.77	PASS
BAND12	3MHz	QPSK	23165	1RB#0	23.63	24.48	34.77	PASS
BAND12	3MHz	QPSK	23165	1RB#14	23.76	24.61	34.77	PASS
BAND12	3MHz	QPSK	23165	1RB#8	23.76	24.61	34.77	PASS
BAND12	3MHz	QPSK	23165	8RB#0	22.74	23.59	34.77	PASS
BAND12	3MHz	QPSK	23165	8RB#4	22.78	23.63	34.77	PASS
BAND12	3MHz	QPSK	23165	8RB#7	22.80	23.65	34.77	PASS
BAND12	3MHz	QPSK	23165	15RB#0	22.79	23.64	34.77	PASS
BAND12	3MHz	16QAM	23025	1RB#0	22.41	23.26	34.77	PASS
BAND12	3MHz	16QAM	23025	1RB#14	22.57	23.42	34.77	PASS
BAND12	3MHz	16QAM	23025	1RB#8	22.49	23.34	34.77	PASS
BAND12	3MHz	16QAM	23025	8RB#0	21.31	22.16	34.77	PASS
BAND12	3MHz	16QAM	23025	8RB#4	21.28	22.13	34.77	PASS
BAND12	3MHz	16QAM	23025	8RB#7	21.26	22.11	34.77	PASS
BAND12	3MHz	16QAM	23025	15RB#0	21.24	22.09	34.77	PASS
BAND12	3MHz	16QAM	23095	1RB#0	22.64	23.49	34.77	PASS
BAND12	3MHz	16QAM	23095	1RB#14	22.67	23.52	34.77	PASS
BAND12	3MHz	16QAM	23095	1RB#8	22.70	23.55	34.77	PASS
BAND12	3MHz	16QAM	23095	8RB#0	21.55	22.40	34.77	PASS
BAND12	3MHz	16QAM	23095	8RB#4	21.53	22.38	34.77	PASS
BAND12	3MHz	16QAM	23095	8RB#7	21.64	22.49	34.77	PASS
BAND12	3MHz	16QAM	23095	15RB#0	21.53	22.38	34.77	PASS
BAND12	3MHz	16QAM	23165	1RB#0	22.88	23.73	34.77	PASS
BAND12	3MHz	16QAM	23165	1RB#14	22.82	23.67	34.77	PASS
BAND12	3MHz	16QAM	23165	1RB#8	22.76	23.61	34.77	PASS
BAND12	3MHz	16QAM	23165	8RB#0	21.73	22.58	34.77	PASS
BAND12	3MHz	16QAM	23165	8RB#4	21.74	22.59	34.77	PASS
BAND12	3MHz	16QAM	23165	8RB#7	21.73	22.58	34.77	PASS
BAND12	3MHz	16QAM	23165	15RB#0	21.80	22.65	34.77	PASS
BAND12	3MHz	64QAM	23025	1RB#0	21.59	22.44	34.77	PASS
BAND12	3MHz	64QAM	23025	1RB#14	21.44	22.29	34.77	PASS
BAND12	3MHz	64QAM	23025	1RB#8	21.39	22.24	34.77	PASS
BAND12	3MHz	64QAM	23025	8RB#0	20.13	20.98	34.77	PASS
BAND12	3MHz	64QAM	23025	8RB#4	20.29	21.14	34.77	PASS
BAND12	3MHz	64QAM	23025	8RB#7	20.23	21.08	34.77	PASS
BAND12	3MHz	64QAM	23025	15RB#0	20.20	21.05	34.77	PASS
BAND12	3MHz	64QAM	23095	1RB#0	21.47	22.32	34.77	PASS
BAND12	3MHz	64QAM	23095	1RB#14	21.73	22.58	34.77	PASS
BAND12	3MHz	64QAM	23095	1RB#8	21.66	22.51	34.77	PASS
BAND12	3MHz	64QAM	23095	8RB#0	20.53	21.38	34.77	PASS

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BAND12	3MHz	64QAM	23095	8RB#4	20.47	21.32	34.77	PASS
BAND12	3MHz	64QAM	23095	8RB#7	20.71	21.56	34.77	PASS
BAND12	3MHz	64QAM	23095	15RB#0	20.47	21.32	34.77	PASS
BAND12	3MHz	64QAM	23165	1RB#0	21.79	22.64	34.77	PASS
BAND12	3MHz	64QAM	23165	1RB#14	21.64	22.49	34.77	PASS
BAND12	3MHz	64QAM	23165	1RB#8	21.73	22.58	34.77	PASS
BAND12	3MHz	64QAM	23165	8RB#0	20.57	21.42	34.77	PASS
BAND12	3MHz	64QAM	23165	8RB#4	20.58	21.43	34.77	PASS
BAND12	3MHz	64QAM	23165	8RB#7	20.81	21.66	34.77	PASS
BAND12	3MHz	64QAM	23165	15RB#0	20.88	21.73	34.77	PASS
BAND12	5MHz	QPSK	23035	1RB#0	23.35	24.20	34.77	PASS
BAND12	5MHz	QPSK	23035	1RB#12	23.38	24.23	34.77	PASS
BAND12	5MHz	QPSK	23035	1RB#24	23.52	24.37	34.77	PASS
BAND12	5MHz	QPSK	23035	12RB#0	22.41	23.26	34.77	PASS
BAND12	5MHz	QPSK	23035	12RB#13	22.60	23.45	34.77	PASS
BAND12	5MHz	QPSK	23035	12RB#6	22.52	23.37	34.77	PASS
BAND12	5MHz	QPSK	23035	25RB#0	22.50	23.35	34.77	PASS
BAND12	5MHz	QPSK	23095	1RB#0	23.60	24.45	34.77	PASS
BAND12	5MHz	QPSK	23095	1RB#12	23.51	24.36	34.77	PASS
BAND12	5MHz	QPSK	23095	1RB#24	23.73	24.58	34.77	PASS
BAND12	5MHz	QPSK	23095	12RB#0	22.65	23.50	34.77	PASS
BAND12	5MHz	QPSK	23095	12RB#13	22.74	23.59	34.77	PASS
BAND12	5MHz	QPSK	23095	12RB#6	22.62	23.47	34.77	PASS
BAND12	5MHz	QPSK	23095	25RB#0	22.64	23.49	34.77	PASS
BAND12	5MHz	QPSK	23155	1RB#0	23.85	24.70	34.77	PASS
BAND12	5MHz	QPSK	23155	1RB#12	23.85	24.70	34.77	PASS
BAND12	5MHz	QPSK	23155	1RB#24	23.95	24.80	34.77	PASS
BAND12	5MHz	QPSK	23155	12RB#0	22.97	23.82	34.77	PASS
BAND12	5MHz	QPSK	23155	12RB#13	22.99	23.84	34.77	PASS
BAND12	5MHz	QPSK	23155	12RB#6	22.86	23.71	34.77	PASS
BAND12	5MHz	QPSK	23155	25RB#0	22.92	23.77	34.77	PASS
BAND12	5MHz	16QAM	23035	1RB#0	22.55	23.40	34.77	PASS
BAND12	5MHz	16QAM	23035	1RB#12	22.45	23.30	34.77	PASS
BAND12	5MHz	16QAM	23035	1RB#24	22.56	23.41	34.77	PASS
BAND12	5MHz	16QAM	23035	12RB#0	21.44	22.29	34.77	PASS
BAND12	5MHz	16QAM	23035	12RB#13	21.65	22.50	34.77	PASS
BAND12	5MHz	16QAM	23035	12RB#6	21.54	22.39	34.77	PASS
BAND12	5MHz	16QAM	23035	25RB#0	21.55	22.40	34.77	PASS
BAND12	5MHz	16QAM	23095	1RB#0	22.72	23.57	34.77	PASS
BAND12	5MHz	16QAM	23095	1RB#12	22.75	23.60	34.77	PASS
BAND12	5MHz	16QAM	23095	1RB#24	22.90	23.75	34.77	PASS

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BAND12	5MHz	16QAM	23095	12RB#0	21.73	22.58	34.77	PASS
BAND12	5MHz	16QAM	23095	12RB#13	21.81	22.66	34.77	PASS
BAND12	5MHz	16QAM	23095	12RB#6	21.72	22.57	34.77	PASS
BAND12	5MHz	16QAM	23095	25RB#0	21.69	22.54	34.77	PASS
BAND12	5MHz	16QAM	23155	1RB#0	22.97	23.82	34.77	PASS
BAND12	5MHz	16QAM	23155	1RB#12	22.89	23.74	34.77	PASS
BAND12	5MHz	16QAM	23155	1RB#24	22.92	23.77	34.77	PASS
BAND12	5MHz	16QAM	23155	12RB#0	21.89	22.74	34.77	PASS
BAND12	5MHz	16QAM	23155	12RB#13	21.96	22.81	34.77	PASS
BAND12	5MHz	16QAM	23155	12RB#6	21.92	22.77	34.77	PASS
BAND12	5MHz	16QAM	23155	25RB#0	21.98	22.83	34.77	PASS
BAND12	5MHz	64QAM	23035	1RB#0	21.62	22.47	34.77	PASS
BAND12	5MHz	64QAM	23035	1RB#12	21.50	22.35	34.77	PASS
BAND12	5MHz	64QAM	23035	1RB#24	21.56	22.41	34.77	PASS
BAND12	5MHz	64QAM	23035	12RB#0	20.59	21.44	34.77	PASS
BAND12	5MHz	64QAM	23035	12RB#13	20.47	21.32	34.77	PASS
BAND12	5MHz	64QAM	23035	12RB#6	20.35	21.20	34.77	PASS
BAND12	5MHz	64QAM	23035	25RB#0	20.68	21.53	34.77	PASS
BAND12	5MHz	64QAM	23095	1RB#0	21.54	22.39	34.77	PASS
BAND12	5MHz	64QAM	23095	1RB#12	21.74	22.59	34.77	PASS
BAND12	5MHz	64QAM	23095	1RB#24	21.94	22.79	34.77	PASS
BAND12	5MHz	64QAM	23095	12RB#0	20.87	21.72	34.77	PASS
BAND12	5MHz	64QAM	23095	12RB#13	20.79	21.64	34.77	PASS
BAND12	5MHz	64QAM	23095	12RB#6	20.69	21.54	34.77	PASS
BAND12	5MHz	64QAM	23095	25RB#0	20.61	21.46	34.77	PASS
BAND12	5MHz	64QAM	23155	1RB#0	21.91	22.76	34.77	PASS
BAND12	5MHz	64QAM	23155	1RB#12	21.93	22.78	34.77	PASS
BAND12	5MHz	64QAM	23155	1RB#24	21.89	22.74	34.77	PASS
BAND12	5MHz	64QAM	23155	12RB#0	20.72	21.57	34.77	PASS
BAND12	5MHz	64QAM	23155	12RB#13	20.78	21.63	34.77	PASS
BAND12	5MHz	64QAM	23155	12RB#6	20.92	21.77	34.77	PASS
BAND12	5MHz	64QAM	23155	25RB#0	20.89	21.74	34.77	PASS
BAND12	10MHz	QPSK	23060	1RB#0	23.44	24.29	34.77	PASS
BAND12	10MHz	QPSK	23060	1RB#24	23.63	24.48	34.77	PASS
BAND12	10MHz	QPSK	23060	1RB#49	23.78	24.63	34.77	PASS
BAND12	10MHz	QPSK	23060	25RB#0	22.60	23.45	34.77	PASS
BAND12	10MHz	QPSK	23060	25RB#12	22.64	23.49	34.77	PASS
BAND12	10MHz	QPSK	23060	25RB#25	22.70	23.55	34.77	PASS
BAND12	10MHz	QPSK	23060	50RB#0	22.71	23.56	34.77	PASS
BAND12	10MHz	QPSK	23095	1RB#0	23.63	24.48	34.77	PASS
BAND12	10MHz	QPSK	23095	1RB#24	23.76	24.61	34.77	PASS

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BAND12	10MHz	QPSK	23095	1RB#49	23.85	24.70	34.77	PASS
BAND12	10MHz	QPSK	23095	25RB#0	22.74	23.59	34.77	PASS
BAND12	10MHz	QPSK	23095	25RB#12	22.70	23.55	34.77	PASS
BAND12	10MHz	QPSK	23095	25RB#25	22.86	23.71	34.77	PASS
BAND12	10MHz	QPSK	23095	50RB#0	22.69	23.54	34.77	PASS
BAND12	10MHz	QPSK	23130	1RB#0	23.75	24.60	34.77	PASS
BAND12	10MHz	QPSK	23130	1RB#24	23.87	24.72	34.77	PASS
BAND12	10MHz	QPSK	23130	1RB#49	23.93	24.78	34.77	PASS
BAND12	10MHz	QPSK	23130	25RB#0	22.83	23.68	34.77	PASS
BAND12	10MHz	QPSK	23130	25RB#12	22.85	23.70	34.77	PASS
BAND12	10MHz	QPSK	23130	25RB#25	22.85	23.70	34.77	PASS
BAND12	10MHz	QPSK	23130	50RB#0	22.88	23.73	34.77	PASS
BAND12	10MHz	16QAM	23060	1RB#0	22.58	23.43	34.77	PASS
BAND12	10MHz	16QAM	23060	1RB#24	22.69	23.54	34.77	PASS
BAND12	10MHz	16QAM	23060	1RB#49	22.91	23.76	34.77	PASS
BAND12	10MHz	16QAM	23060	25RB#0	21.68	22.53	34.77	PASS
BAND12	10MHz	16QAM	23060	25RB#12	21.71	22.56	34.77	PASS
BAND12	10MHz	16QAM	23060	25RB#25	21.77	22.62	34.77	PASS
BAND12	10MHz	16QAM	23060	50RB#0	21.73	22.58	34.77	PASS
BAND12	10MHz	16QAM	23095	1RB#0	22.72	23.57	34.77	PASS
BAND12	10MHz	16QAM	23095	1RB#24	22.80	23.65	34.77	PASS
BAND12	10MHz	16QAM	23095	1RB#49	22.85	23.70	34.77	PASS
BAND12	10MHz	16QAM	23095	25RB#0	21.80	22.65	34.77	PASS
BAND12	10MHz	16QAM	23095	25RB#12	21.75	22.60	34.77	PASS
BAND12	10MHz	16QAM	23095	25RB#25	21.92	22.77	34.77	PASS
BAND12	10MHz	16QAM	23095	50RB#0	21.74	22.59	34.77	PASS
BAND12	10MHz	16QAM	23130	1RB#0	22.95	23.80	34.77	PASS
BAND12	10MHz	16QAM	23130	1RB#24	22.89	23.74	34.77	PASS
BAND12	10MHz	16QAM	23130	1RB#49	22.99	23.84	34.77	PASS
BAND12	10MHz	16QAM	23130	25RB#0	21.90	22.75	34.77	PASS
BAND12	10MHz	16QAM	23130	25RB#12	21.90	22.75	34.77	PASS
BAND12	10MHz	16QAM	23130	25RB#25	21.91	22.76	34.77	PASS
BAND12	10MHz	16QAM	23130	50RB#0	21.91	22.76	34.77	PASS
BAND12	10MHz	64QAM	23060	1RB#0	21.46	22.31	34.77	PASS
BAND12	10MHz	64QAM	23060	1RB#24	21.63	22.48	34.77	PASS
BAND12	10MHz	64QAM	23060	1RB#49	21.74	22.59	34.77	PASS
BAND12	10MHz	64QAM	23060	25RB#0	20.64	21.49	34.77	PASS
BAND12	10MHz	64QAM	23060	25RB#12	20.52	21.37	34.77	PASS
BAND12	10MHz	64QAM	23060	25RB#25	20.59	21.44	34.77	PASS
BAND12	10MHz	64QAM	23060	50RB#0	20.76	21.61	34.77	PASS
BAND12	10MHz	64QAM	23095	1RB#0	21.91	22.76	34.77	PASS

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BAND12	10MHz	64QAM	23095	1RB#24	21.78	22.63	34.77	PASS
BAND12	10MHz	64QAM	23095	1RB#49	21.83	22.68	34.77	PASS
BAND12	10MHz	64QAM	23095	25RB#0	20.66	21.51	34.77	PASS
BAND12	10MHz	64QAM	23095	25RB#12	20.58	21.43	34.77	PASS
BAND12	10MHz	64QAM	23095	25RB#25	20.78	21.63	34.77	PASS
BAND12	10MHz	64QAM	23095	50RB#0	20.66	21.51	34.77	PASS
BAND12	10MHz	64QAM	23130	1RB#0	21.83	22.68	34.77	PASS
BAND12	10MHz	64QAM	23130	1RB#24	21.85	22.70	34.77	PASS
BAND12	10MHz	64QAM	23130	1RB#49	21.99	22.84	34.77	PASS
BAND12	10MHz	64QAM	23130	25RB#0	20.94	21.79	34.77	PASS
BAND12	10MHz	64QAM	23130	25RB#12	20.89	21.74	34.77	PASS
BAND12	10MHz	64QAM	23130	25RB#25	20.83	21.68	34.77	PASS
BAND12	10MHz	64QAM	23130	50RB#0	20.73	21.58	34.77	PASS

Note:

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

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

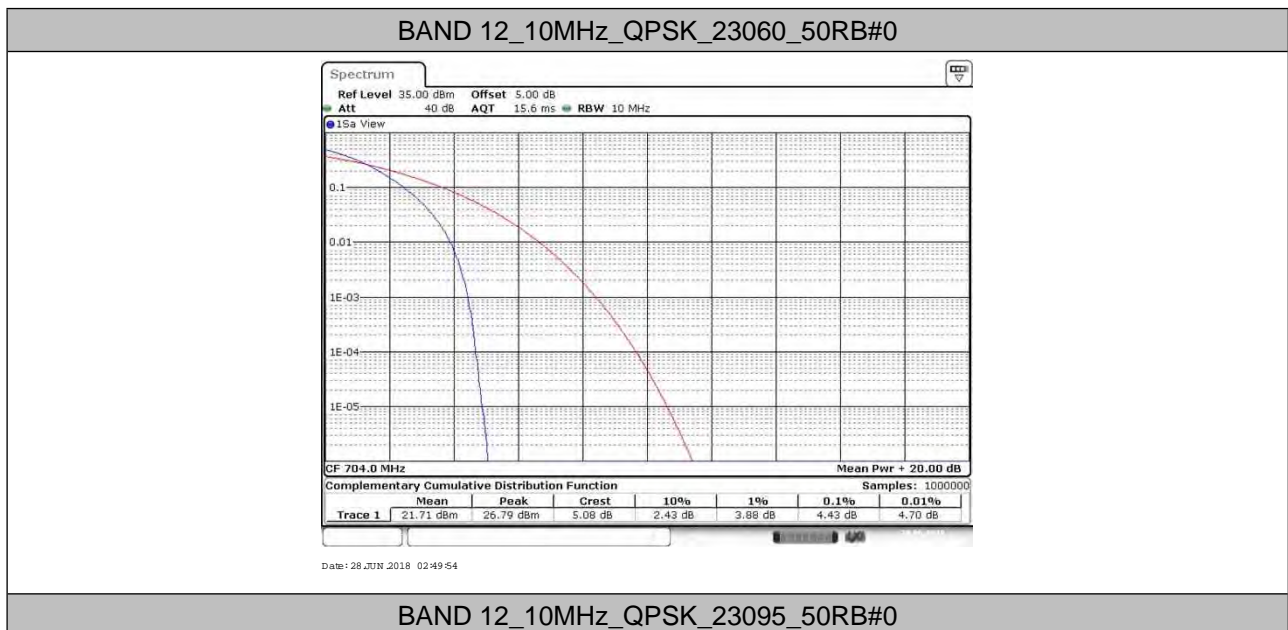


2. Peak-to-Average Ratio(CCDFF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND 12	10MHz	QPSK	23060	50RB#0	4.43	13	PASS
			23095	50RB#0	4.90	13	PASS
			23130	50RB#0	4.29	13	PASS
		16QAM	23060	50RB#0	4.81	13	PASS
			23095	50RB#0	5.39	13	PASS
			23130	50RB#0	4.84	13	PASS
		64QAM	23060	50RB#0	4.78	13	PASS
			23095	50RB#0	5.57	13	PASS
			23130	50RB#0	4.96	13	PASS

2.2. Test Plots

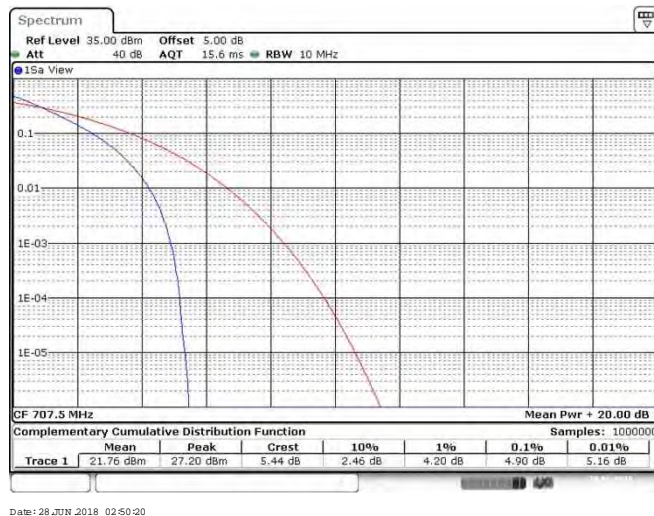




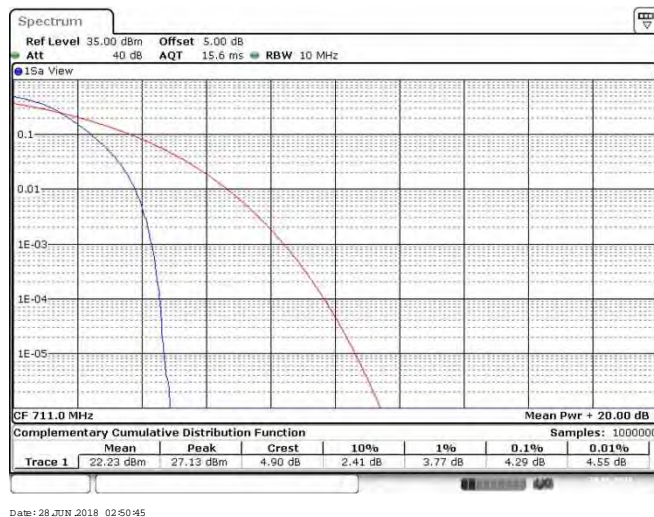
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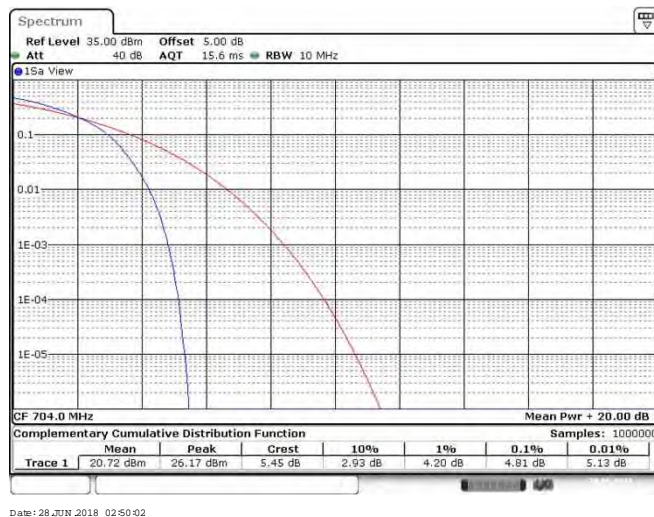
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BAND 12_10MHz_QPSK_23130_50RB#0



BAND 12_10MHz_16QAM_23060_50RB#0



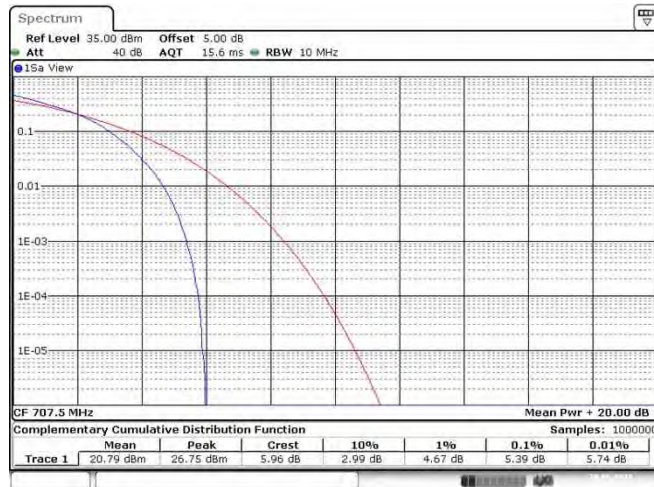
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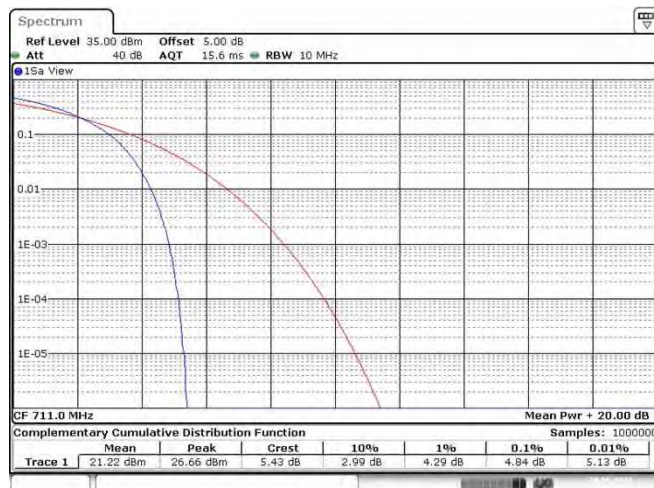
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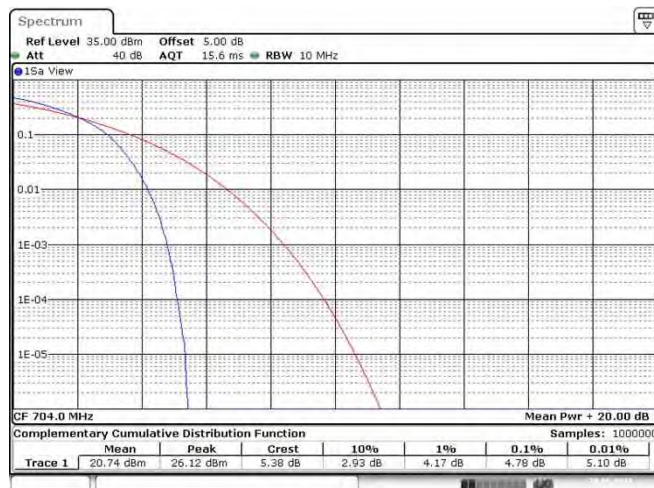
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BAND 12_10MHz_16QAM_23130_50RB#0



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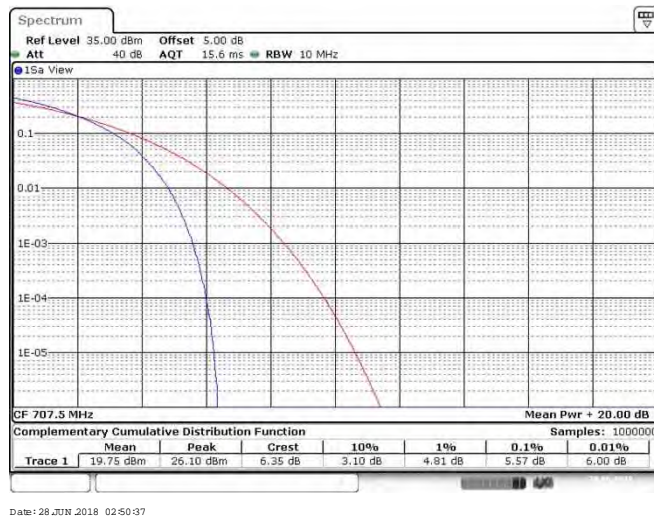
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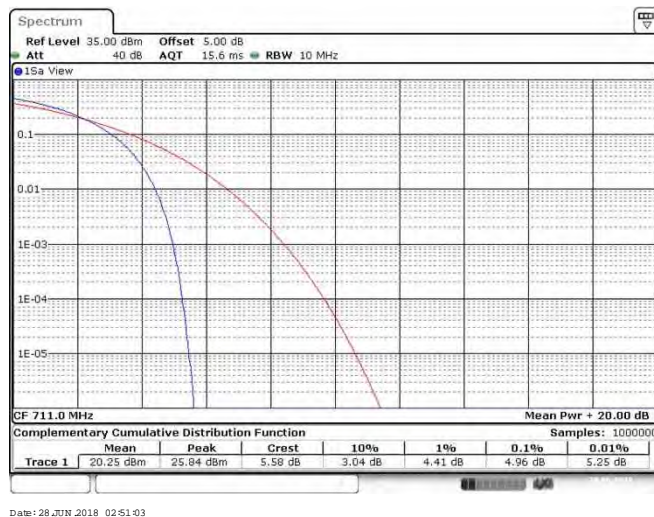
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BAND 12_10MHz_64QAM_23130_50RB#0

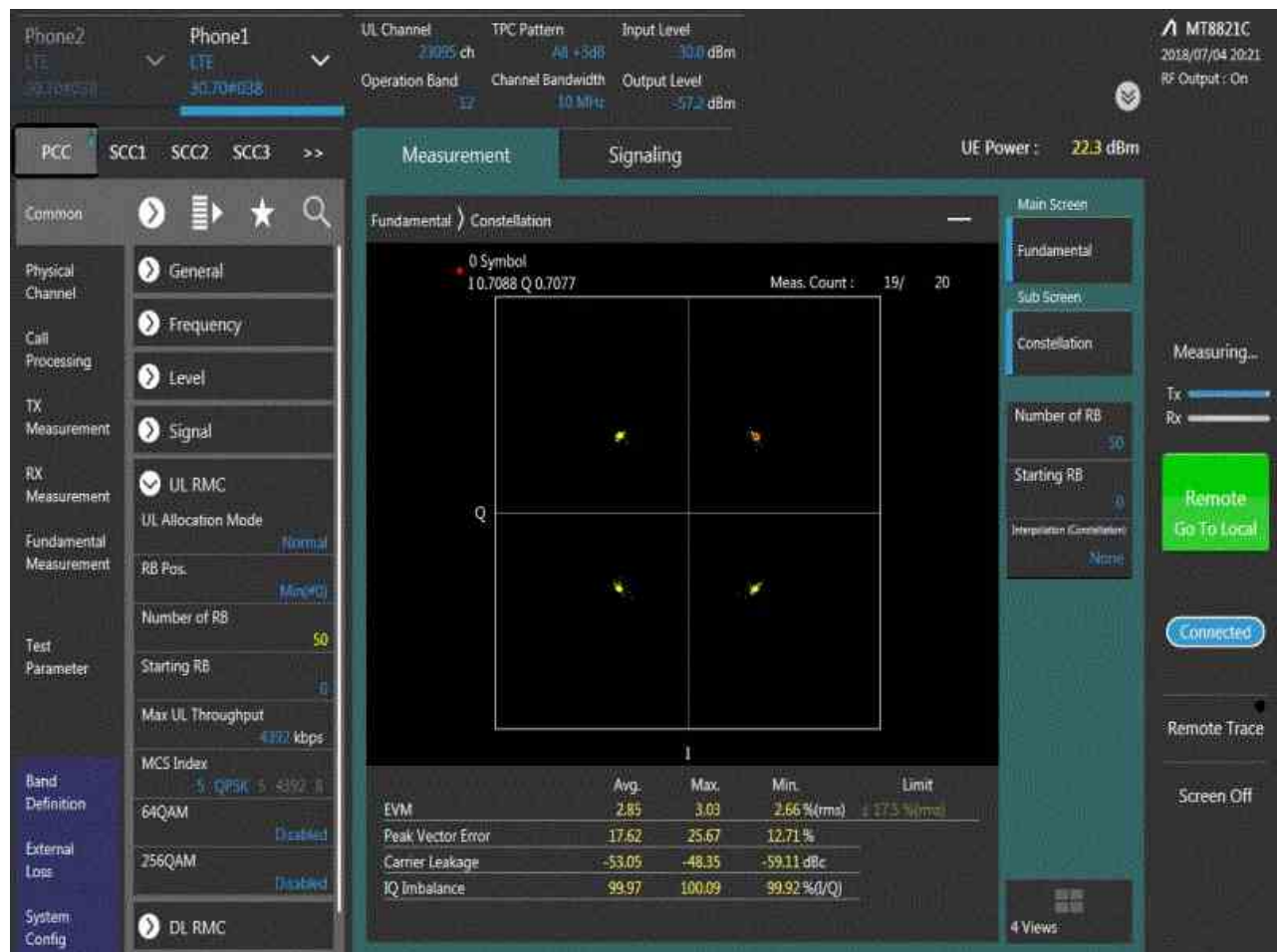


3. Modulation Characteristics

3.1. Test BAND = LTE BAND 12

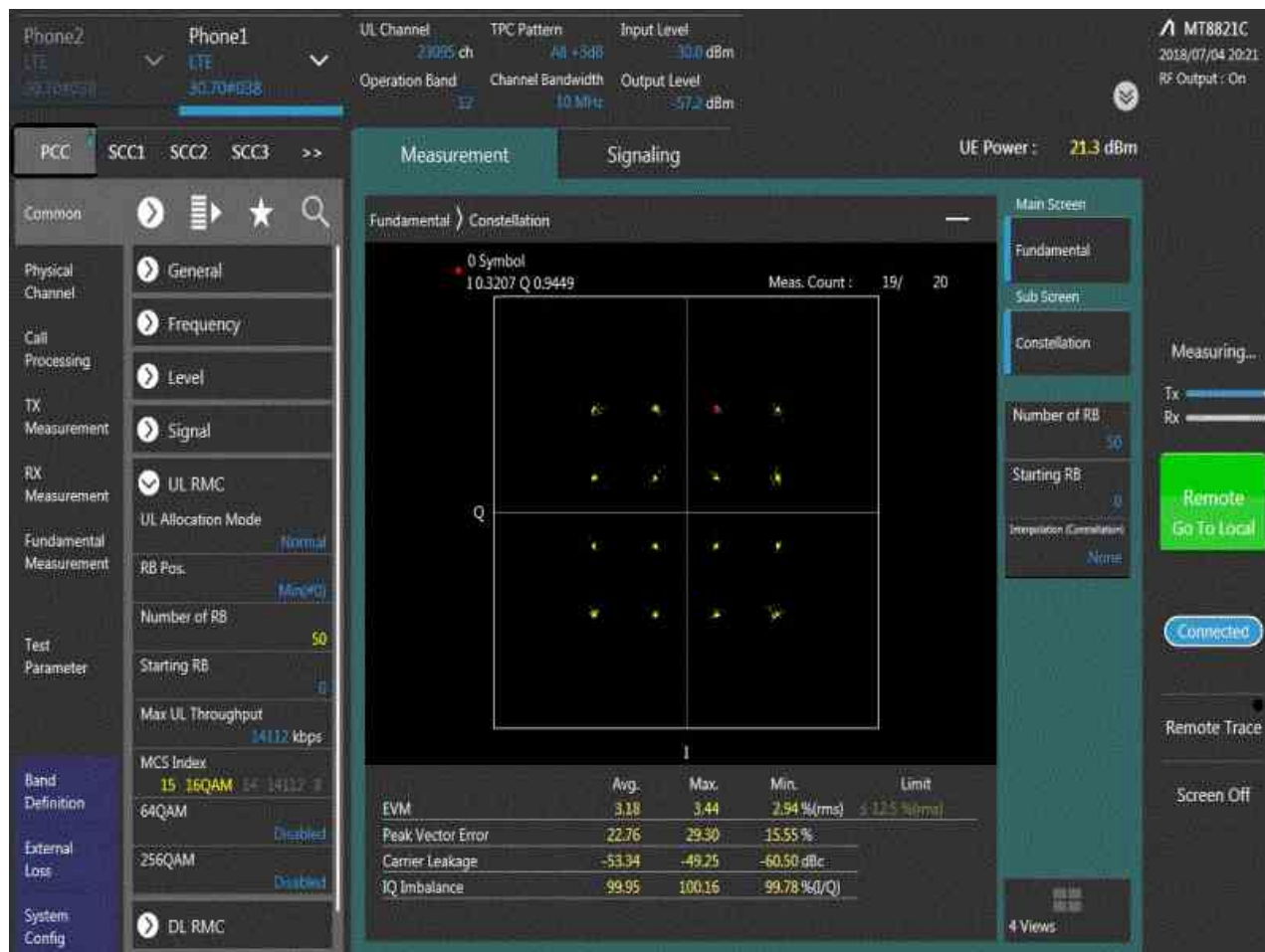
3.1.1. Test Mode = LTE /TM1 10MHz

3.1.1.1. Test Channel = MCH



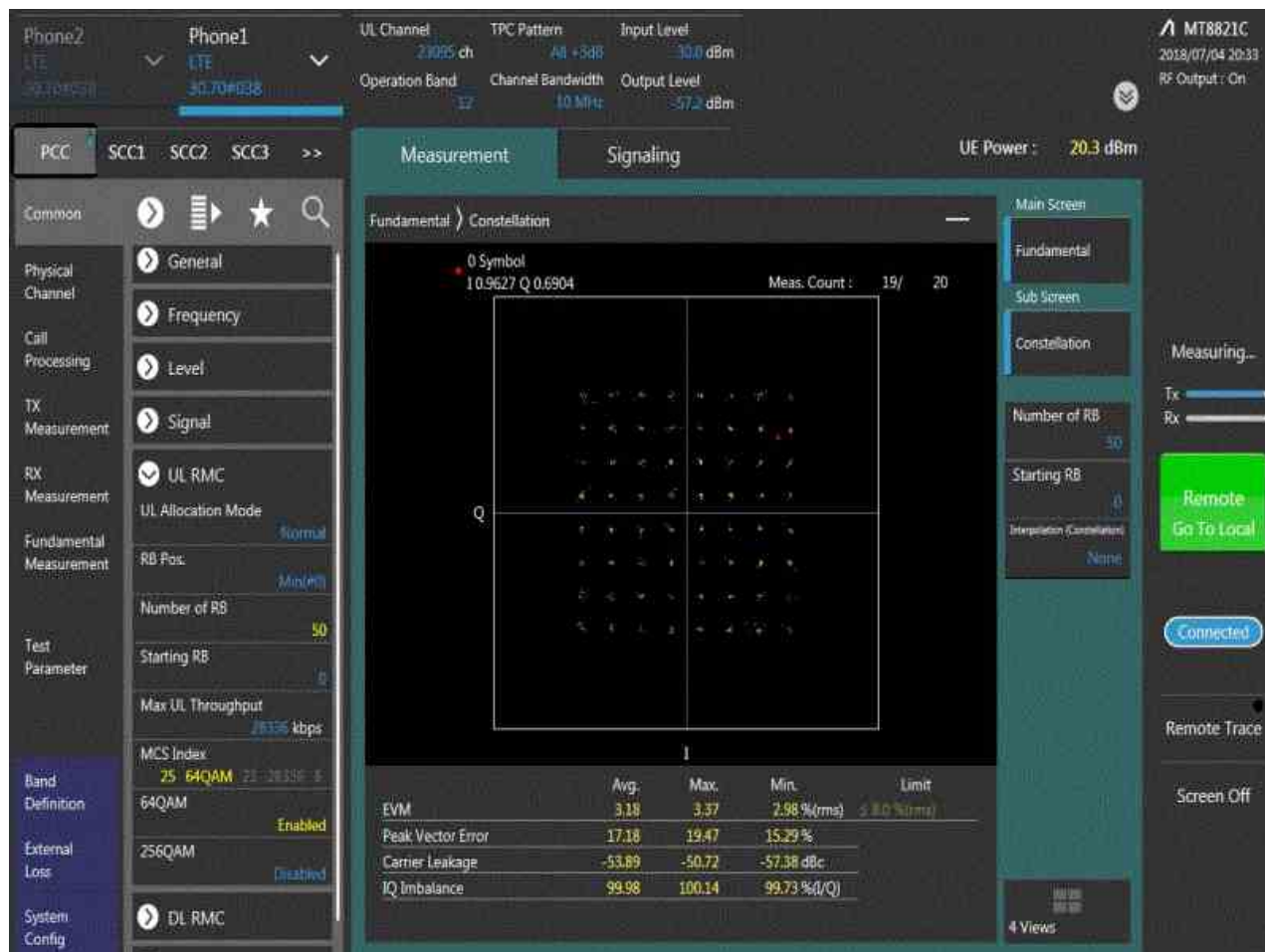
3.1.2. Test Mode = LTE /TM2 10MHz

3.1.2.1. Test Channel = MCH



3.1.1. Test Mode = LTE /TM3 10MHz

3.1.1.1. Test Channel = MCH





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	1.088	1.260	PASS
			23095	6RB#0	1.088	1.251	PASS
			23173	6RB#0	1.091	1.320	PASS
		64QAM	23017	6RB#0	1.091	1.341	PASS
			23095	6RB#0	1.085	1.251	PASS
			23173	6RB#0	1.097	1.491	PASS
		16QAM	23017	6RB#0	1.091	1.473	PASS
			23095	6RB#0	1.088	1.245	PASS
			23173	6RB#0	1.094	1.533	PASS
	3MHz	QPSK	23025	15RB#0	2.685	3.000	PASS
			23095	15RB#0	2.685	2.988	PASS
			23165	15RB#0	2.697	3.156	PASS
		64QAM	23025	15RB#0	2.685	3.168	PASS
			23095	15RB#0	2.685	2.976	PASS
			23165	15RB#0	2.703	3.852	PASS
		16QAM	23025	15RB#0	2.691	3.288	PASS
			23095	15RB#0	2.685	2.976	PASS
			23165	15RB#0	2.697	3.654	PASS
	5MHz	QPSK	23035	25RB#0	4.456	4.890	PASS
			23095	25RB#0	4.466	4.870	PASS
			23155	25RB#0	4.466	4.940	PASS
		64QAM	23035	25RB#0	4.466	5.510	PASS
			23095	25RB#0	4.466	4.860	PASS
			23155	25RB#0	4.466	6.030	PASS
		16QAM	23035	25RB#0	4.466	5.550	PASS
			23095	25RB#0	4.466	4.860	PASS
			23155	25RB#0	4.466	5.790	PASS
	10MHz	QPSK	23060	50RB#0	8.931	10.060	PASS
			23095	50RB#0	8.971	10.220	PASS
			23130	50RB#0	8.891	9.900	PASS
		64QAM	23060	50RB#0	8.951	10.220	PASS
			23095	50RB#0	8.971	10.280	PASS
			23130	50RB#0	8.891	10.040	PASS



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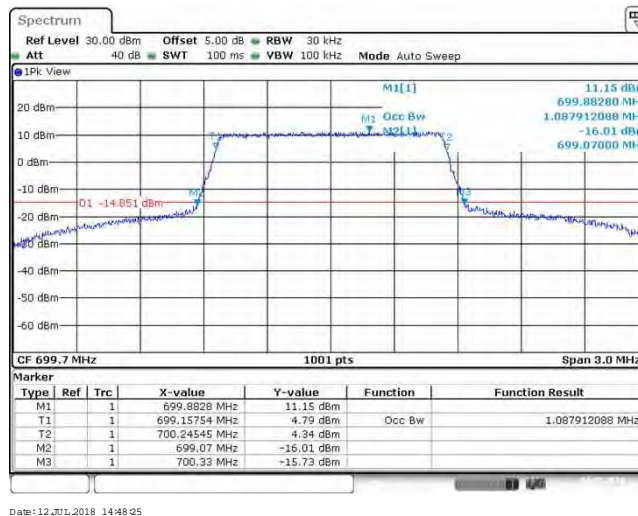
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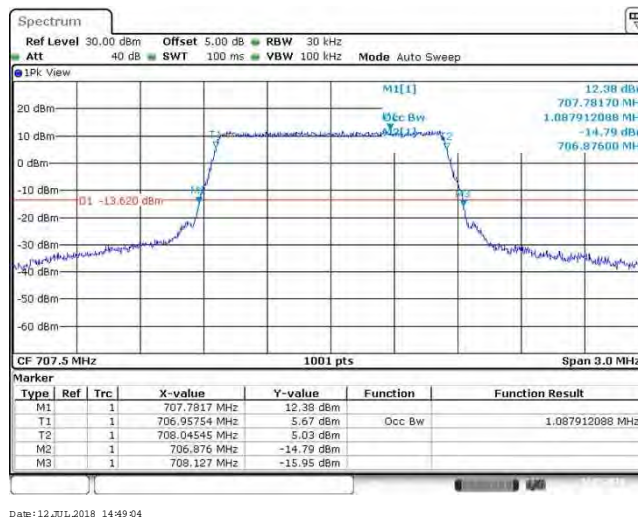
		16QAM	23060	50RB#0	8.971	10.320	PASS
			23095	50RB#0	8.971	10.220	PASS
			23130	50RB#0	8.891	10.000	PASS

4.2. Test Plots

BAND12_1.4MHz_QPSK_23017_6RB#0



BAND12_1.4MHz_QPSK_23095_6RB#0



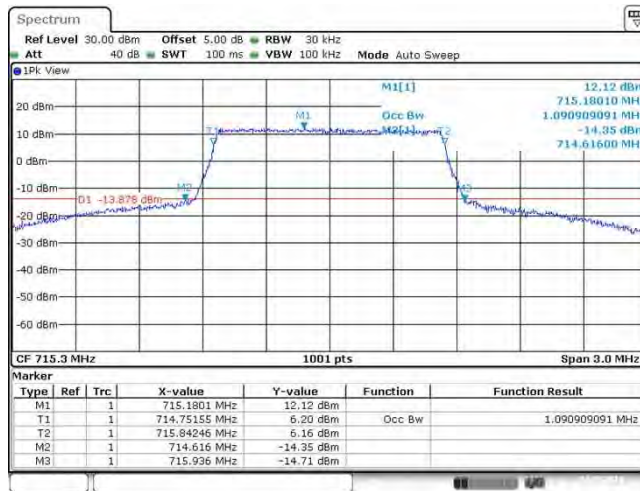
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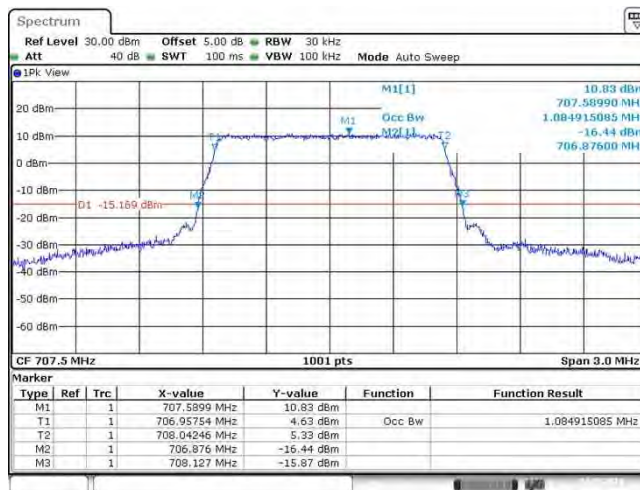
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BAND12_1.4MHz_64QAM_23017_6RB#0



BAND12_1.4MHz_64QAM_23095_6RB#0



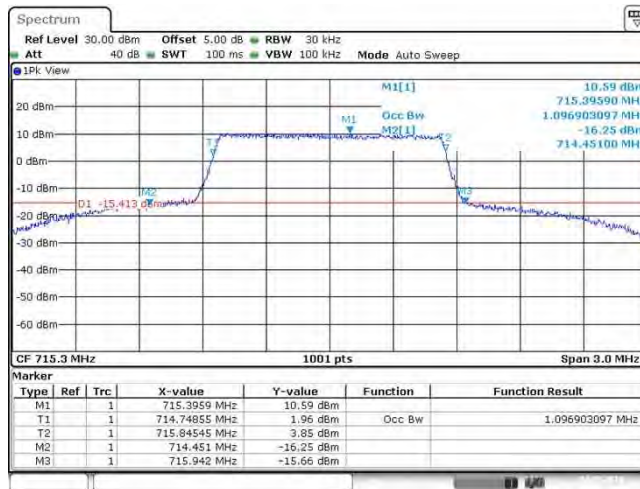
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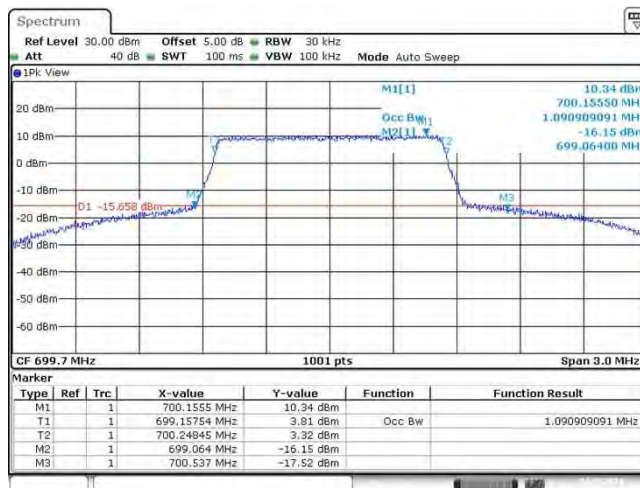
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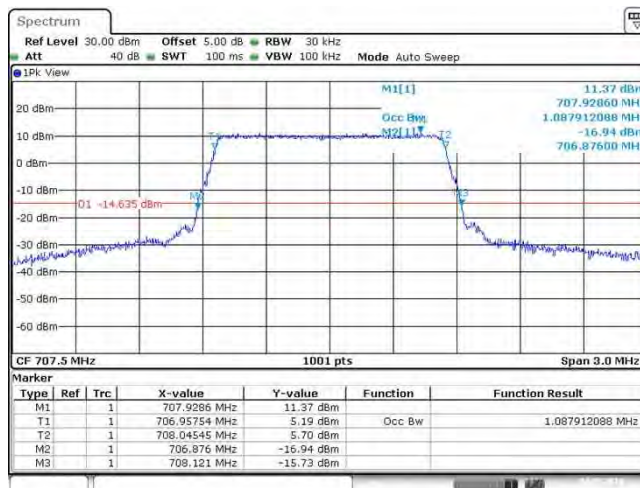
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BAND12_1.4MHz_16QAM_23017_6RB#0



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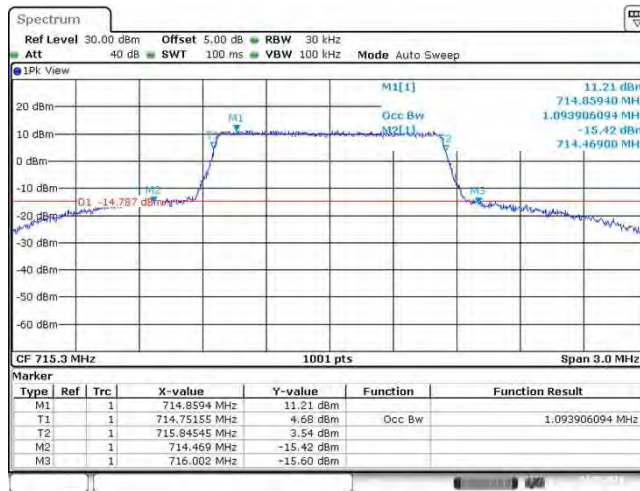
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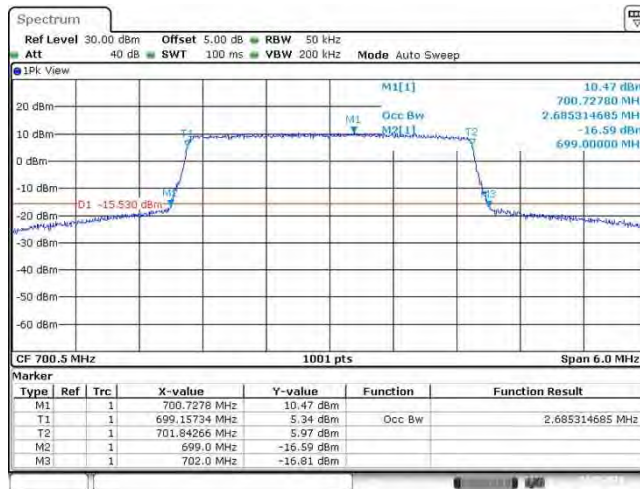
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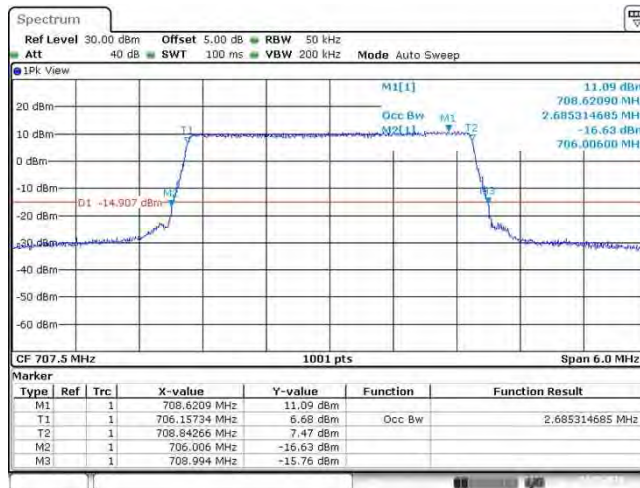
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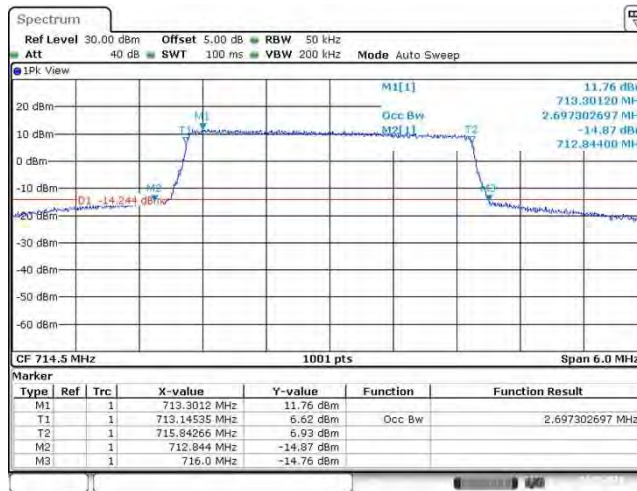
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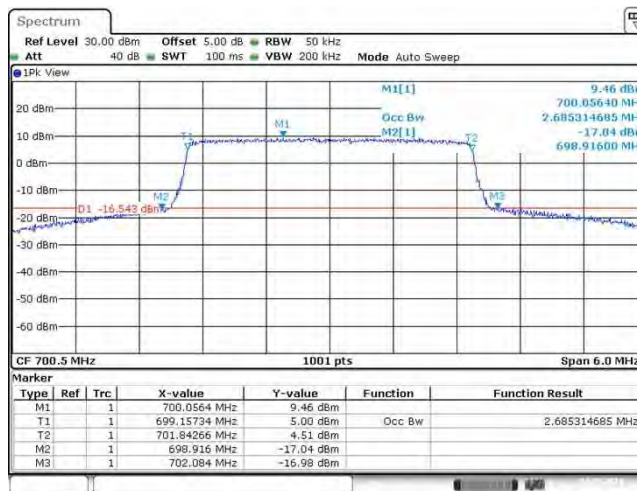
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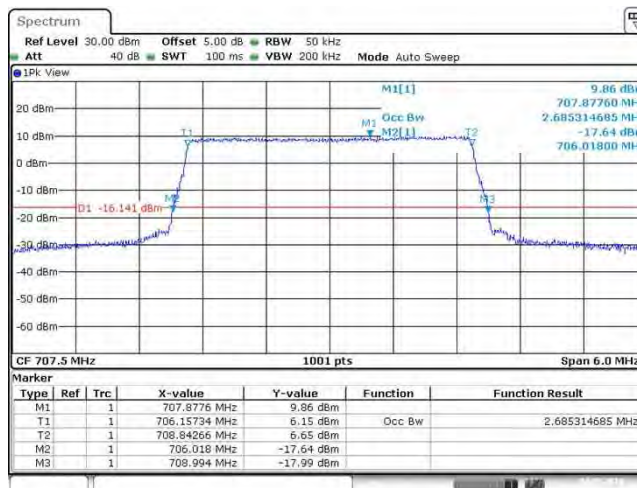
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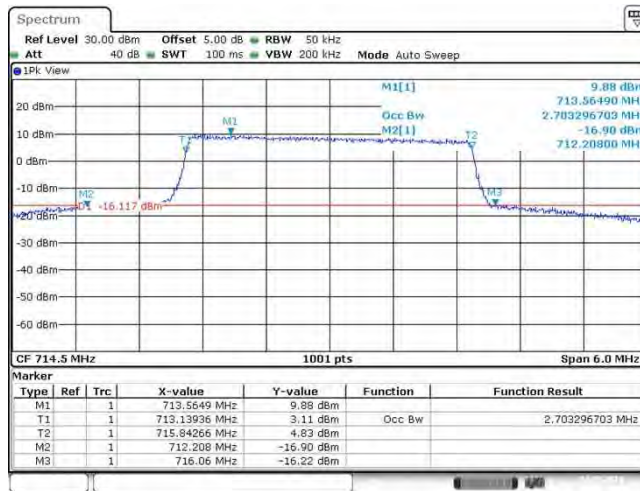
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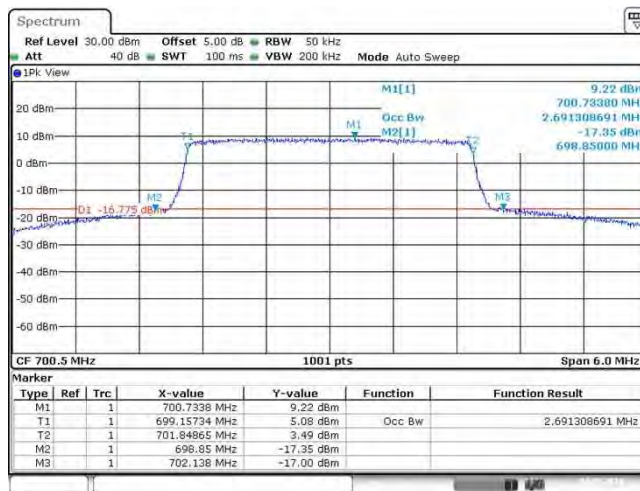
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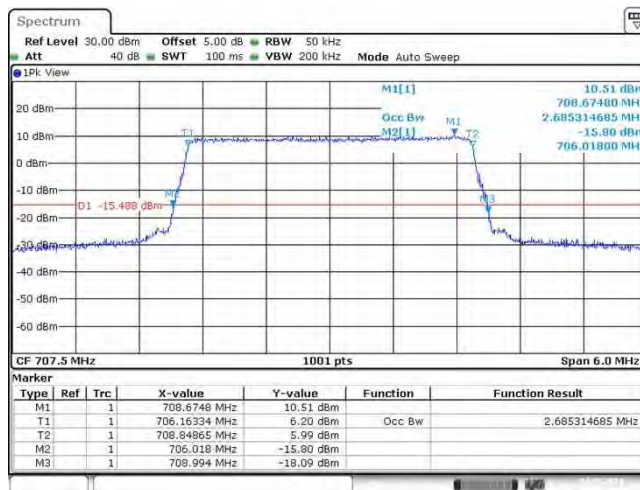
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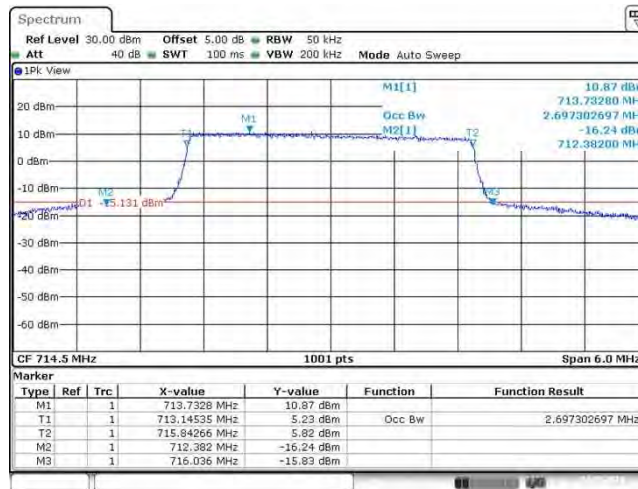
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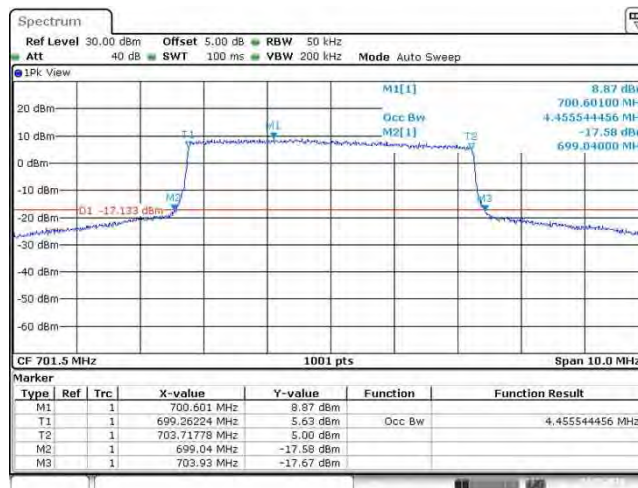
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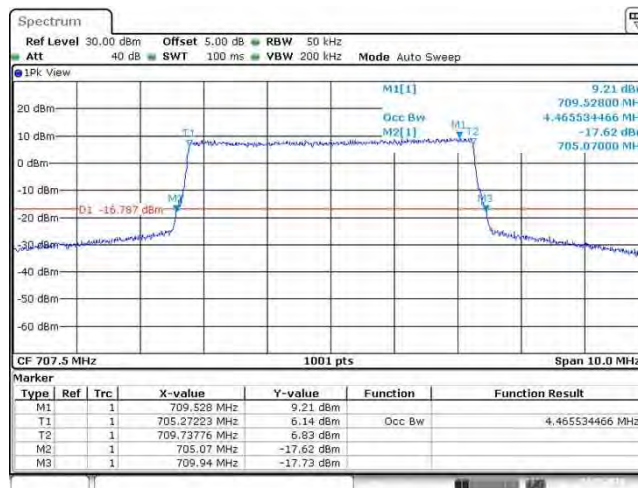
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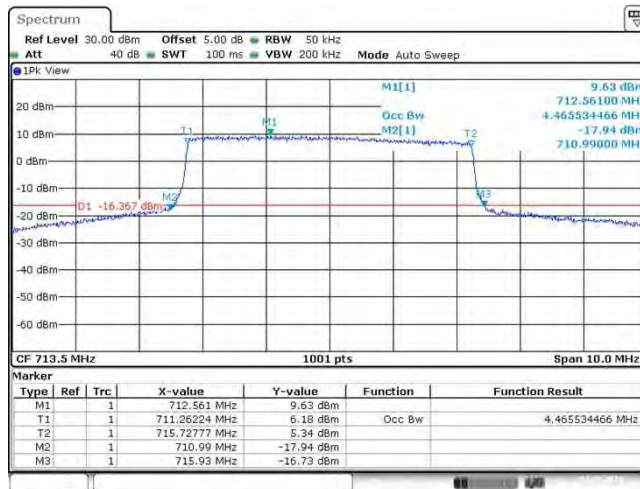
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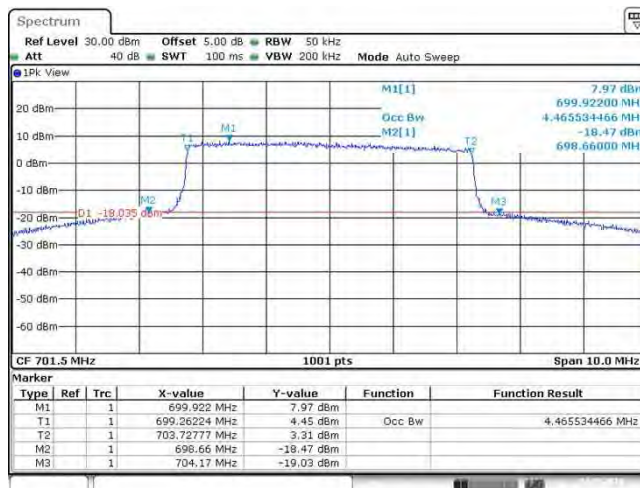
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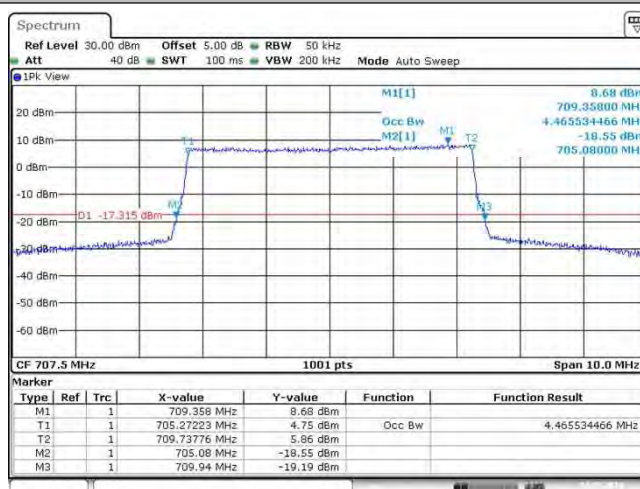
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BAND12_5MHz_64QAM_23035_25RB#0



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Date: 12 JUL 2018 14:54:15

BAND12_5MHz_64QAM_23155_25RB#0

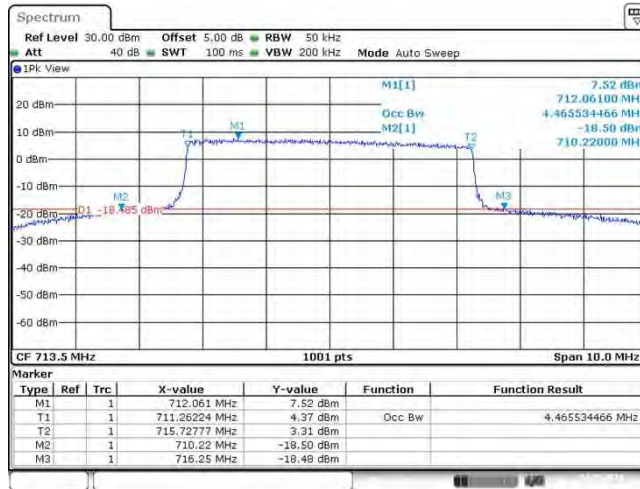
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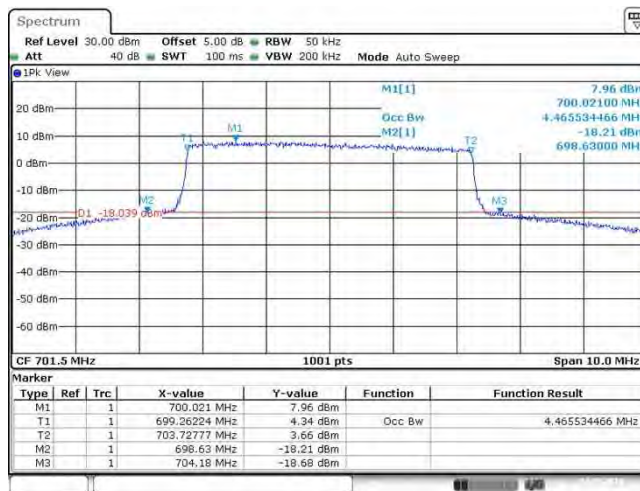
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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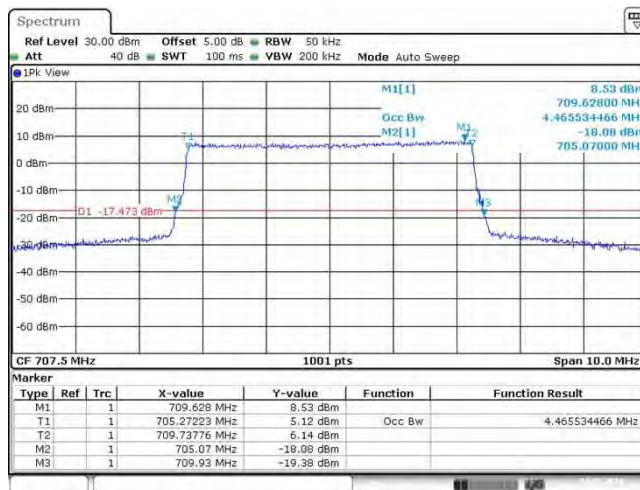
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BAND12_5MHz_16QAM_23035_25RB#0



BAND12_5MHz_16QAM_23095_25RB#0



BAND12_5MHz_16QAM_23155_25RB#0

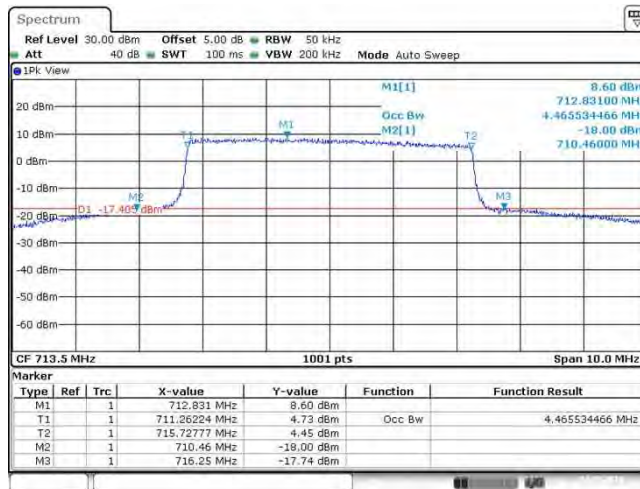
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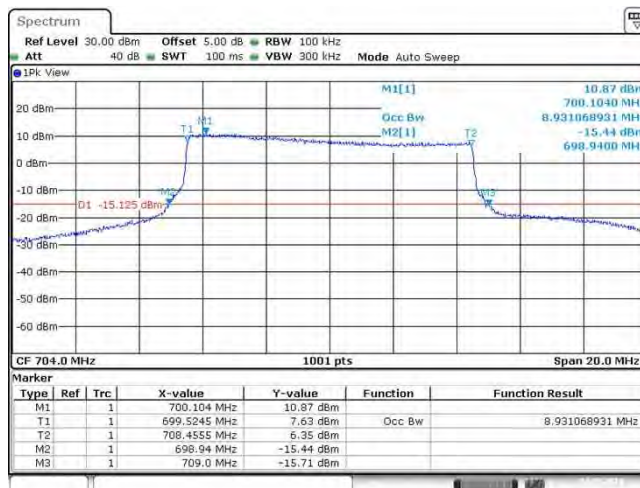
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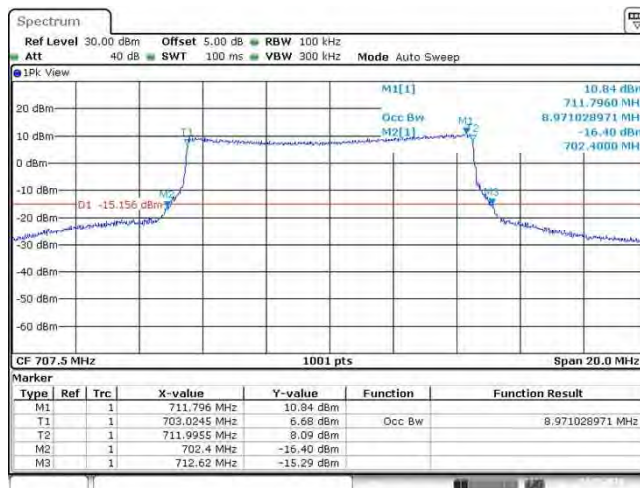
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BAND12_10MHz_QPSK_23060_50RB#0



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BAND12_10MHz_QPSK_23095_50RB#0



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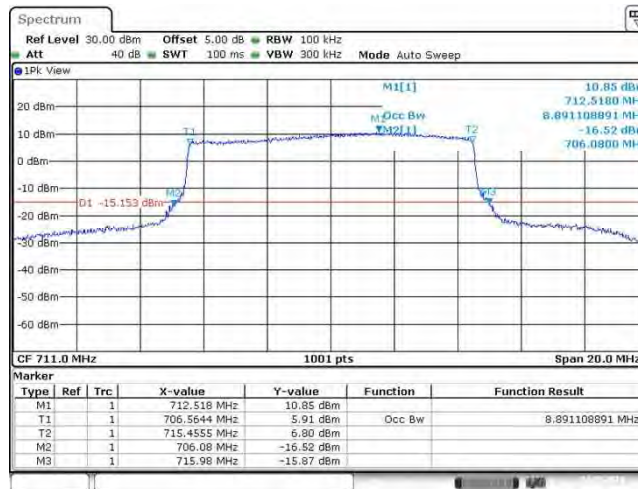
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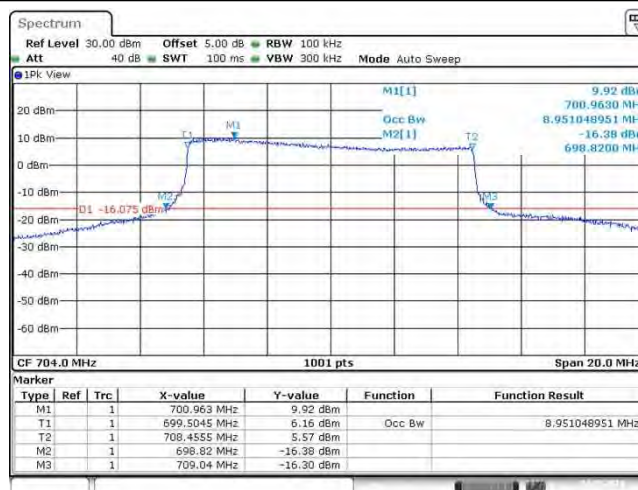
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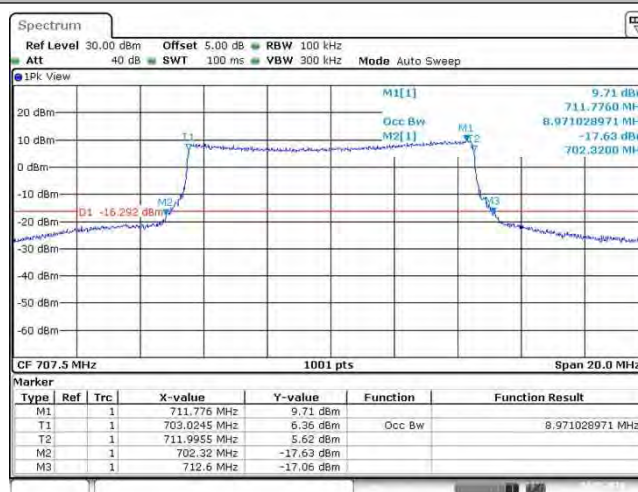
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Date: 12 JUL 2018 14:58:47

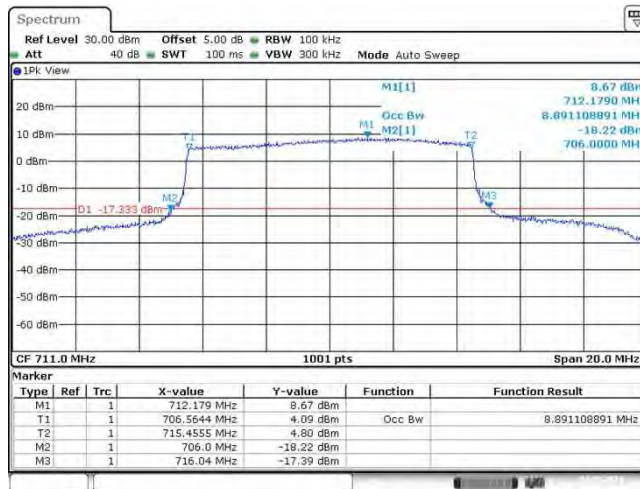
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

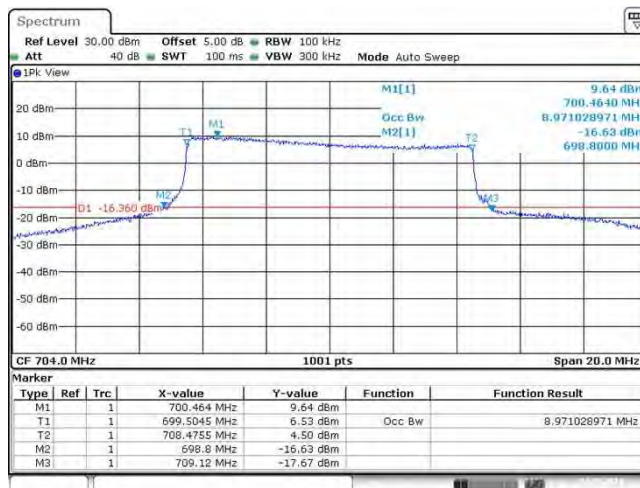
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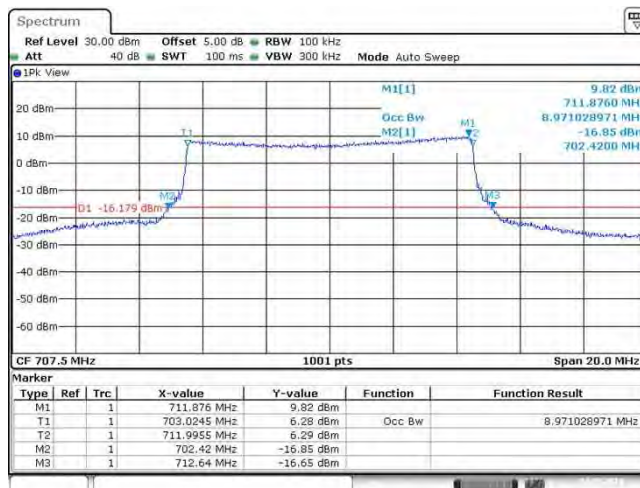
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BAND12_10MHz_16QAM_23060_50RB#0



Date: 12 JUL 2018 14:55:46

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Date: 12 JUL 2018 14:58:04

BAND12_10MHz_16QAM_23130_50RB#0

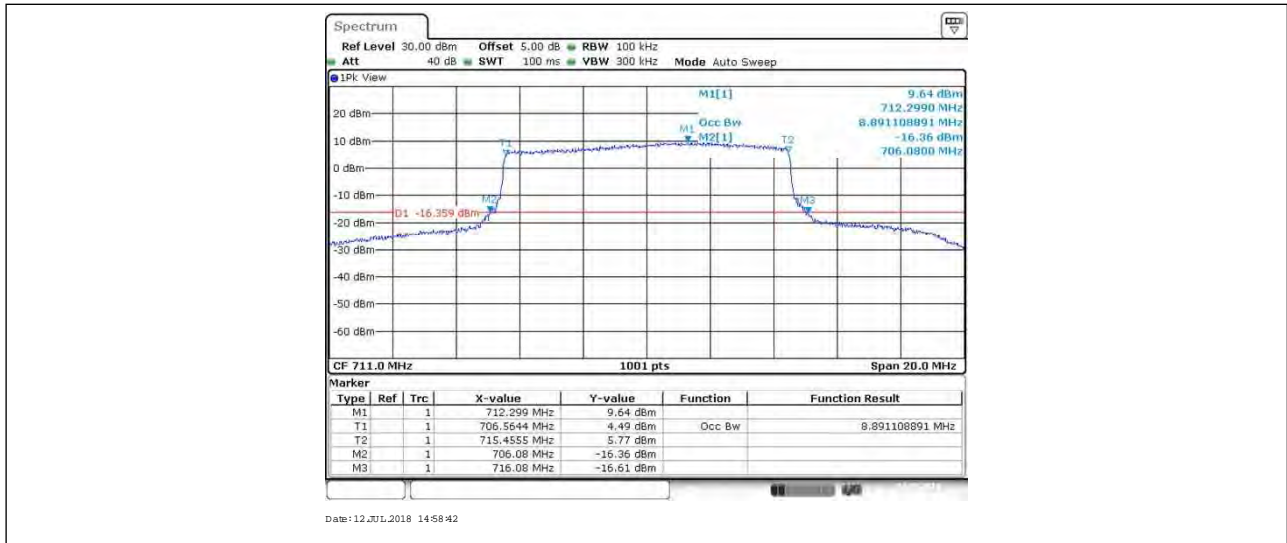
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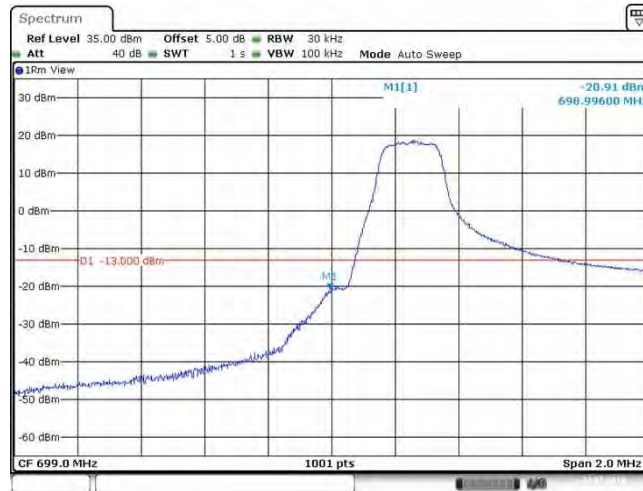




5. Band Edge Compliance

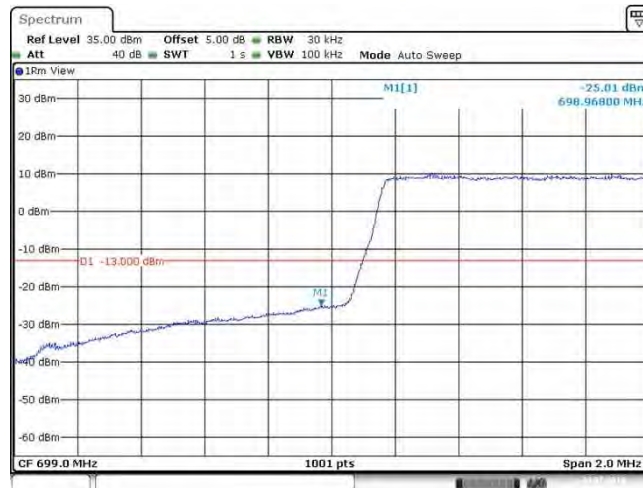
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BAND12_1.4MHz_QPSK_23017_1RB#0



Date: 24 JUL 2018 06:17:02

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Date: 24 JUL 2018 06:21:46

BAND12_1.4MHz_QPSK_23173_1RB#5



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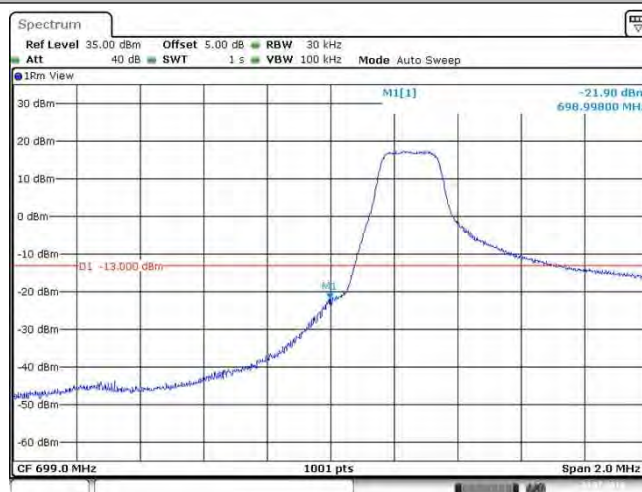
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Date: 24 JUL 2018 06:18:34

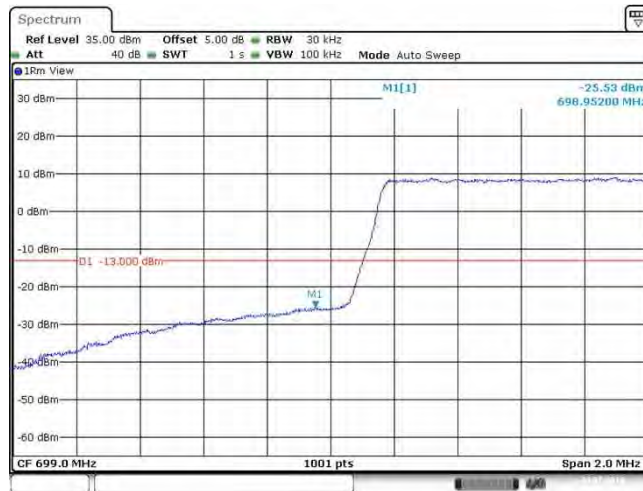
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Date: 24 JUL 2018 06:23:17

BAND12_1.4MHz_64QAM_23173_1RB#5



Date: 24 JUL 2018 06:20:55

BAND12_1.4MHz_64QAM_23173_6RB#0



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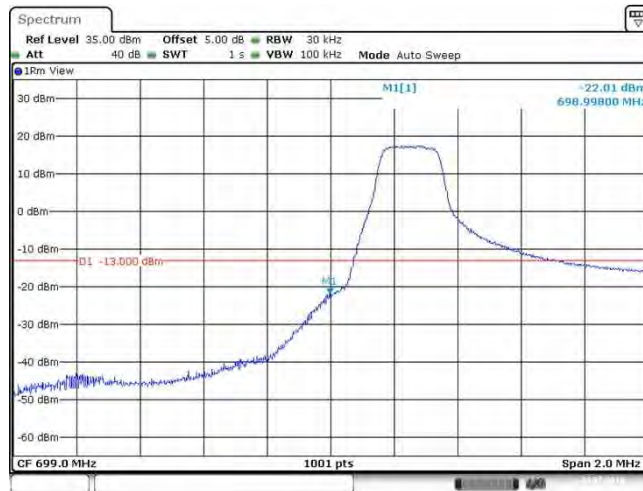
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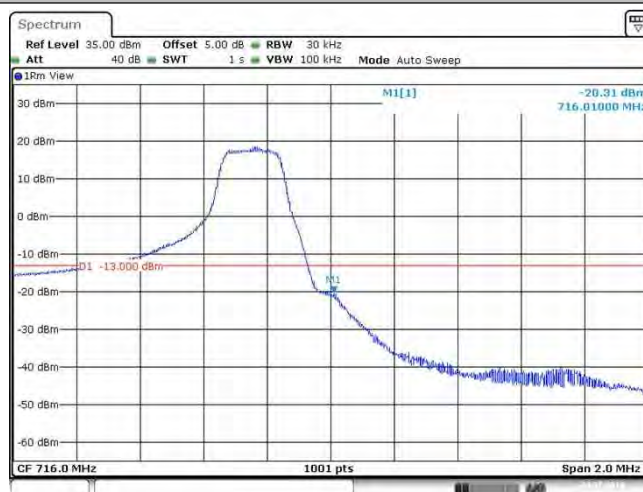
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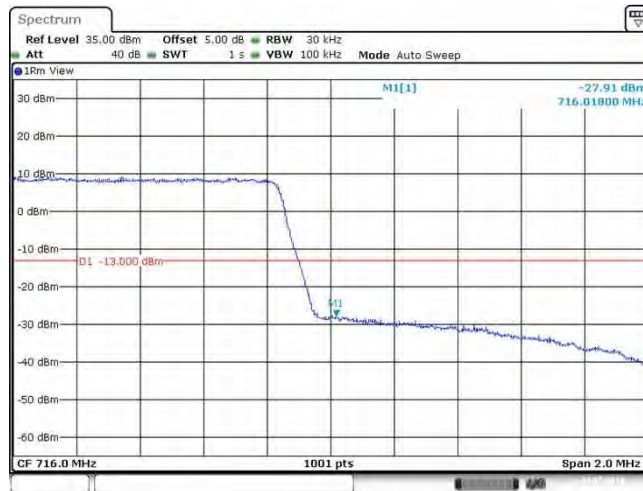
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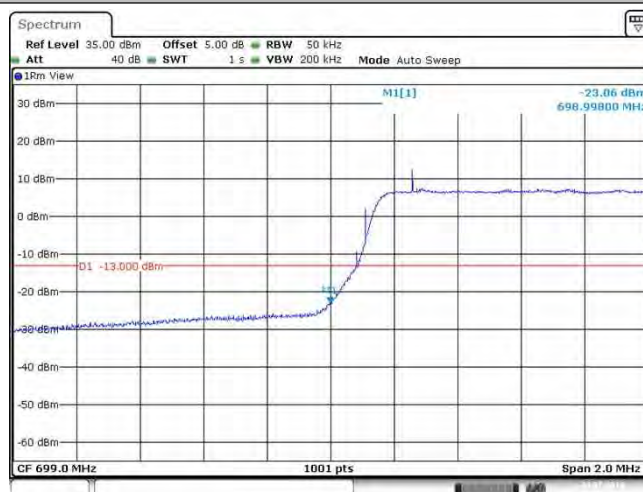
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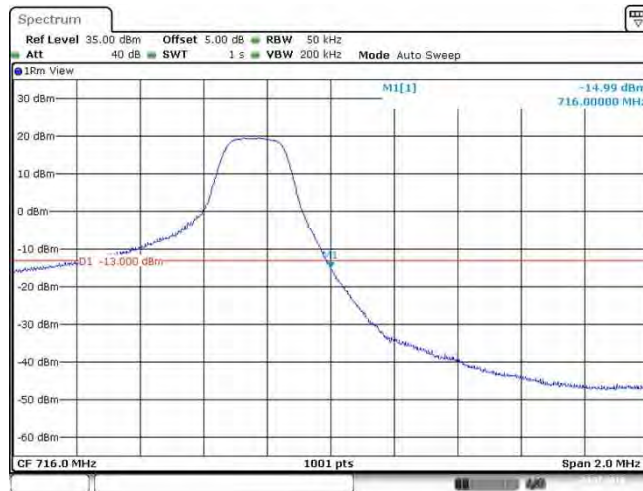
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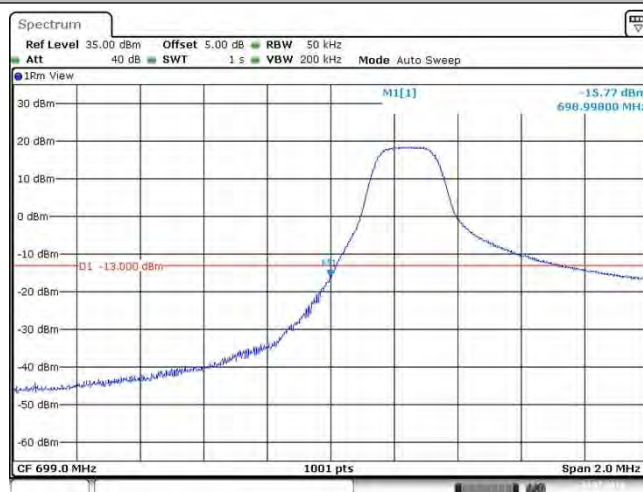
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Date: 24 JUL 2018 06:27:57

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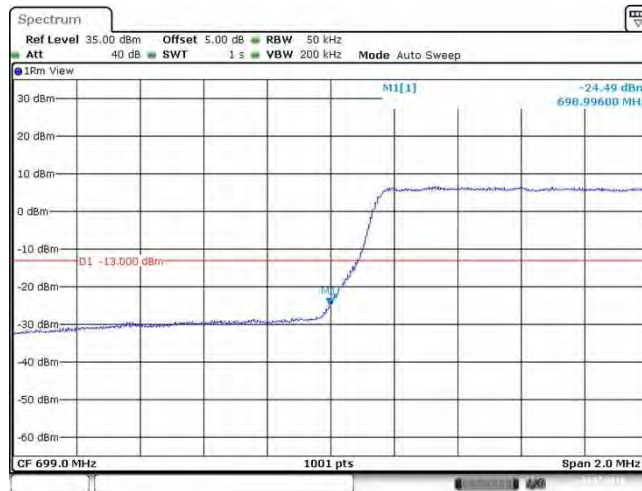
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Date: 24 JUL 2018 06:32:42

BAND12_3MHz_64QAM_23165_1RB#14



Date: 24 JUL 2018 06:30:19

BAND12_3MHz_64QAM_23165_15RB#0



Date: 24 JUL 2018 06:35:00

BAND12_3MHz_16QAM_23025_1RB#0



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Date: 24 JUL 2018 06:27:12

BAND12_3MHz_16QAM_23025_15RB#0



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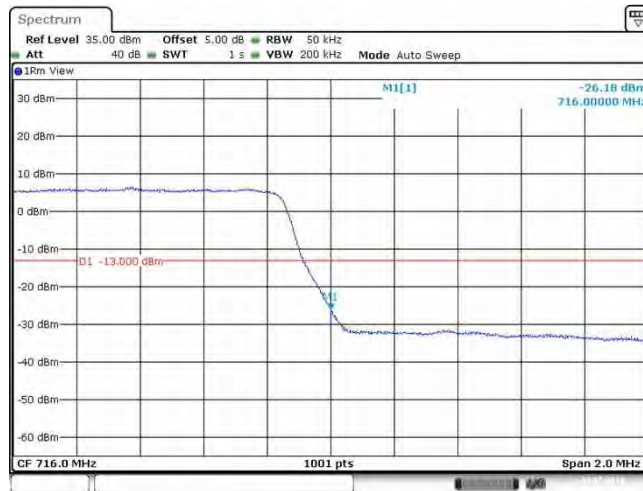
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Date: 24 JUL 2018 06:34:14

BAND12_5MHz_QPSK_23035_1RB#0



Date: 24 JUL 2018 06:35:50

BAND12_5MHz_QPSK_23035_25RB#0



Date: 24 JUL 2018 06:40:05

BAND12_5MHz_QPSK_23155_1RB#24



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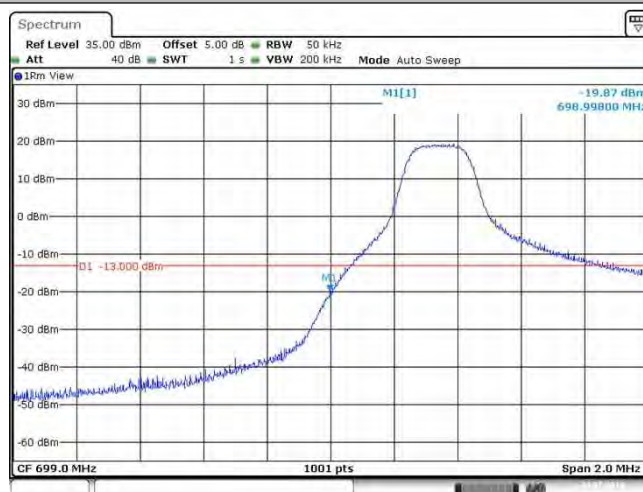
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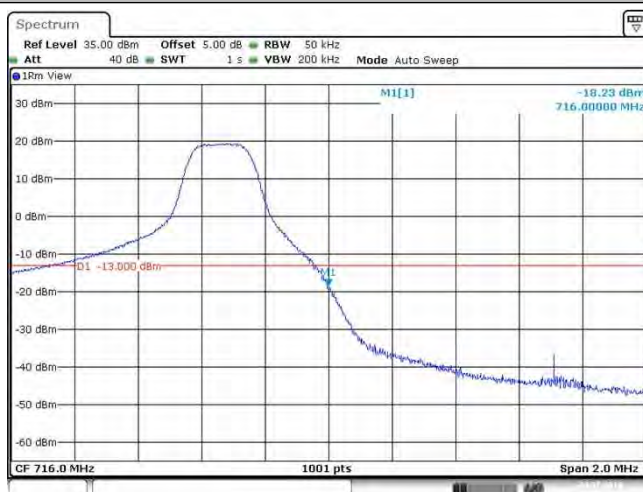
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Date: 24 JUL 2018 06:42:06

BAND12_5MHz_64QAM_23155_1RB#24



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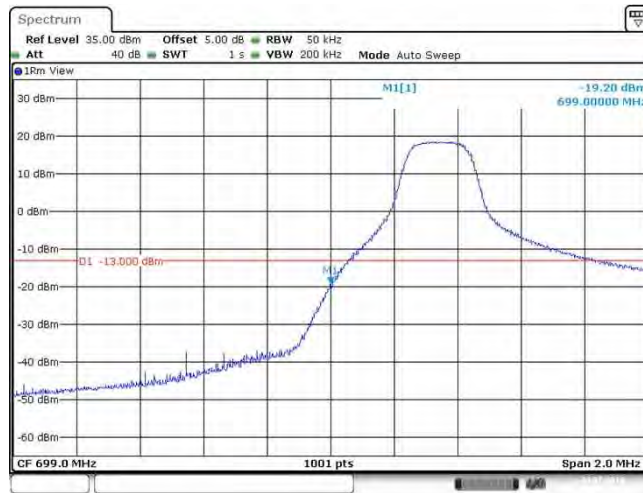
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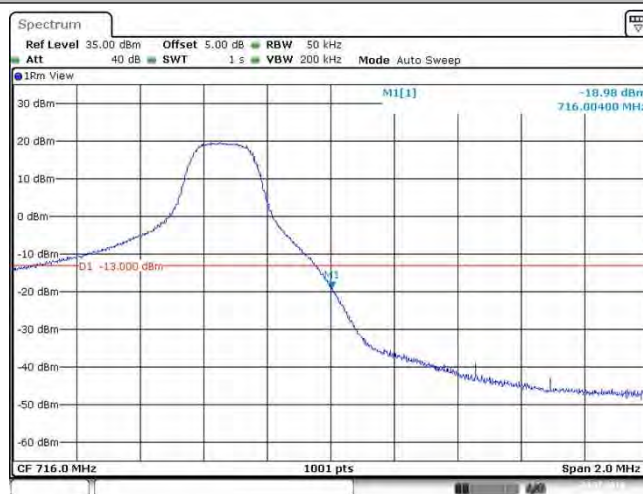
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BAND12_5MHz_16QAM_23155_1RB#24



Date: 24 JUL 2018 06:38:58

BAND12_5MHz_16QAM_23155_25RB#0

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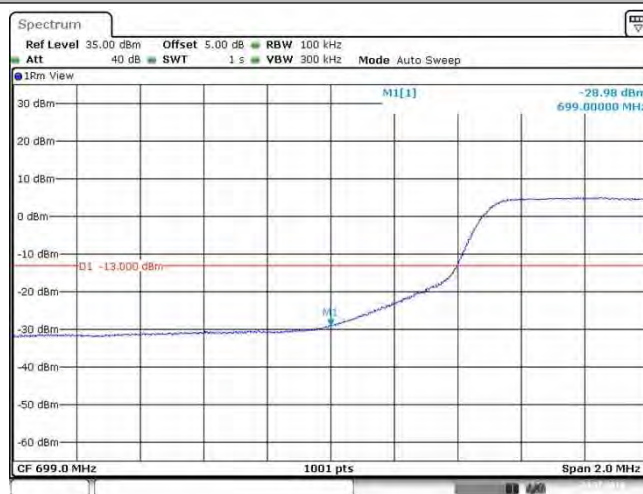
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Date: 24 JUL 2018 06:50:00

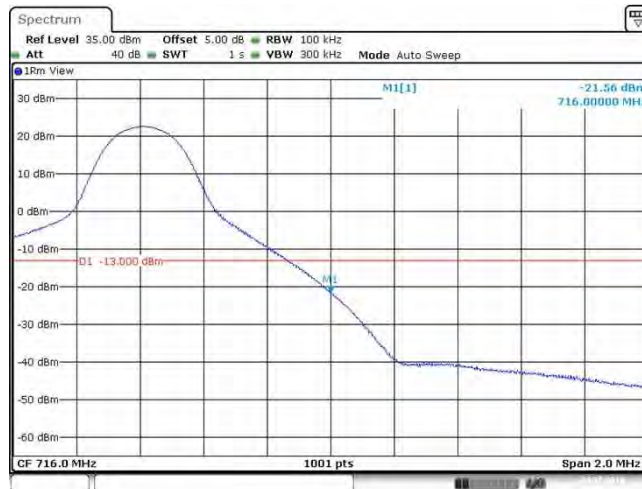
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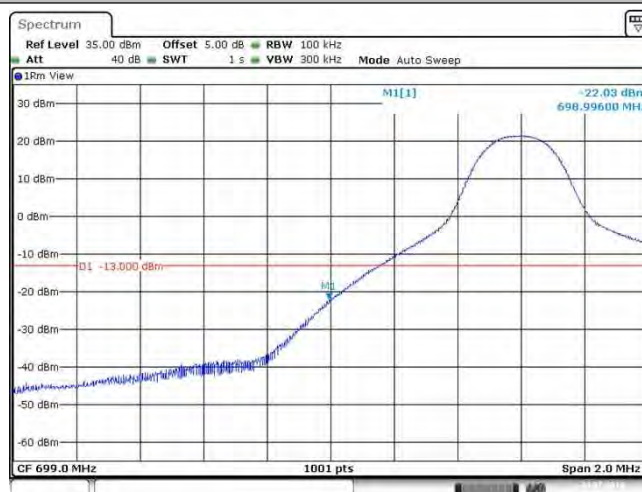
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Date: 24 JUL 2018 06:52:17

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Date: 24 JUL 2018 06:46:47

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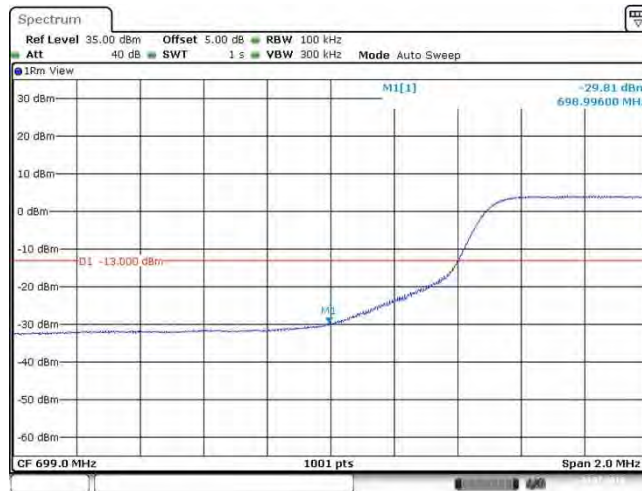
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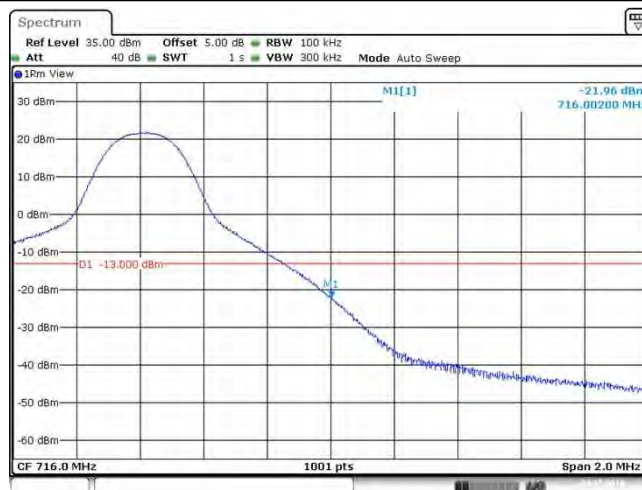
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Date: 24 JUL 2018 06:51:31

BAND12_10MHz_64QAM_23130_1RB#49



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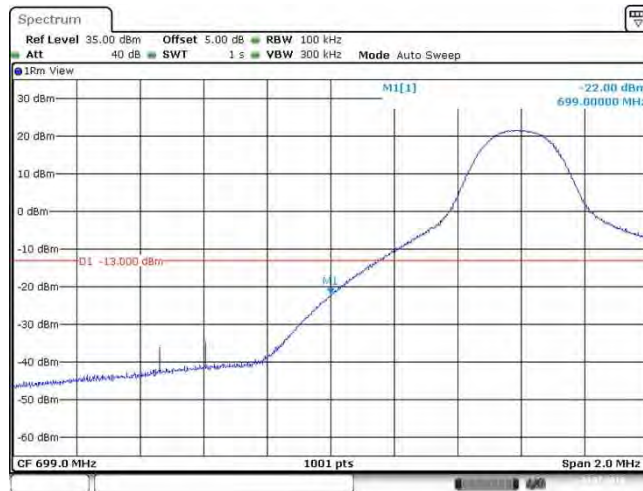
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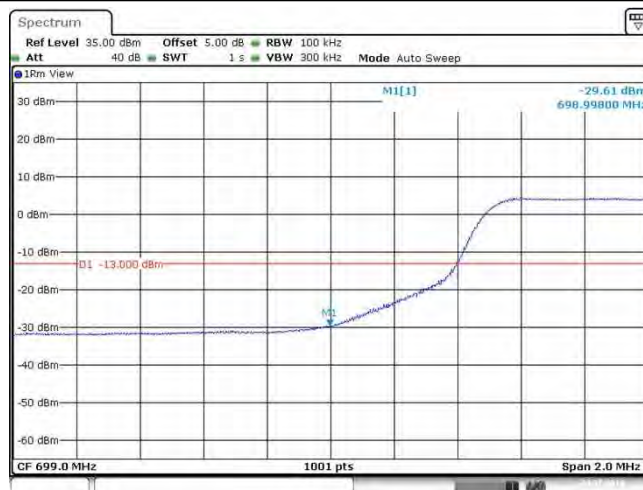
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Date: 24 JUL 2018 06:46:02

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Date: 24 JUL 2018 06:50:46

BAND12_10MHz_16QAM_23130_1RB#49



Date: 24 JUL 2018 06:48:24

BAND12_10MHz_16QAM_23130_50RB#0



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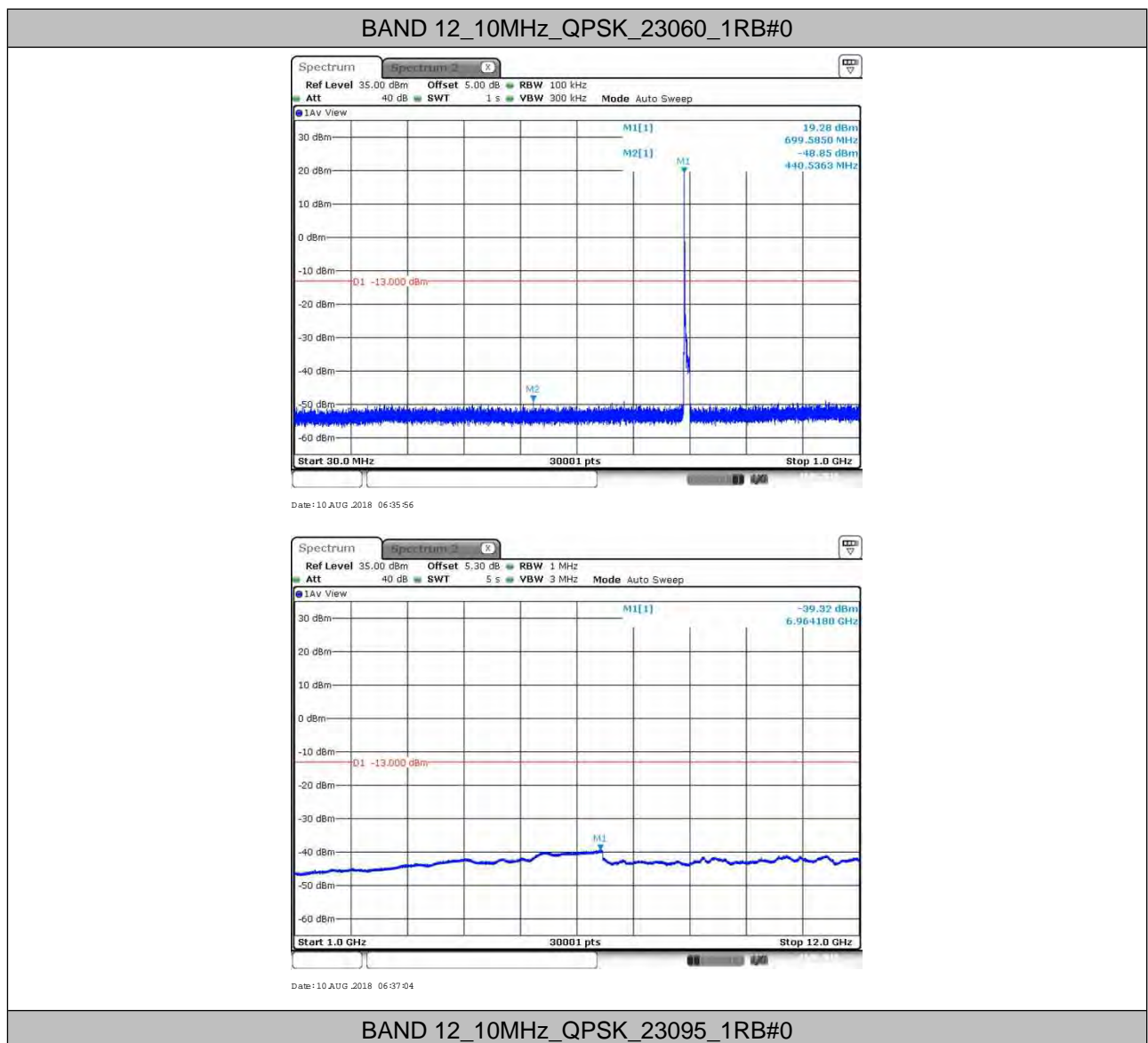


6. Spurious Emission at Antenna Terminal

NOTE1: 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.

NOTE2: only the worst case data displayed in this report.

6.1. Test Plots

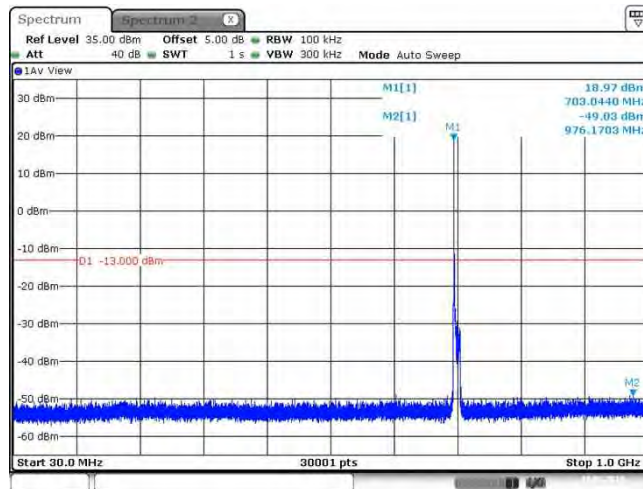




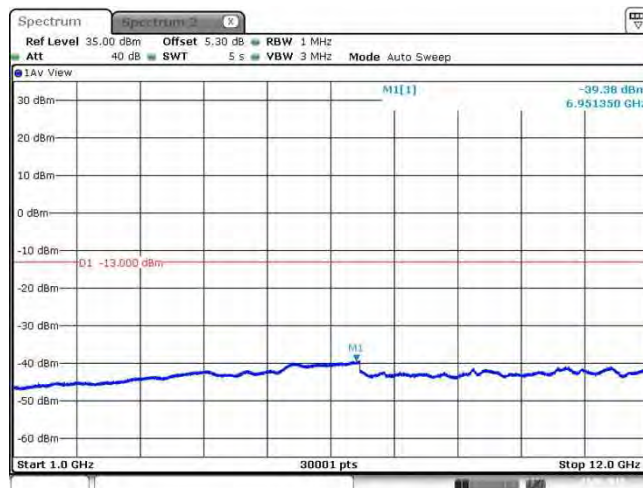
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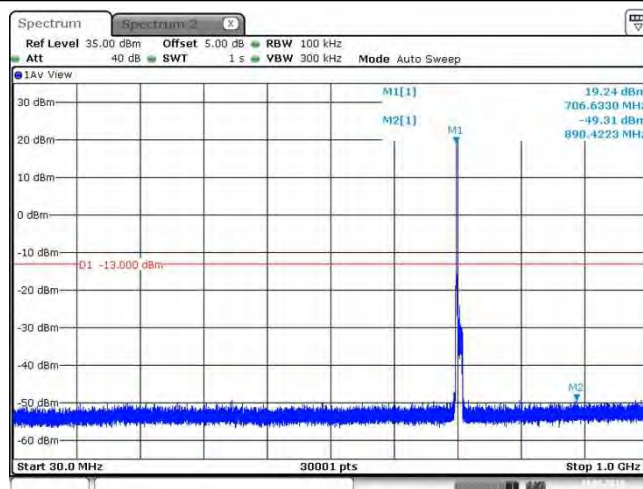


Date: 10 AUG 2018 06:40:17



Date: 10 AUG 2018 06:41:25

BAND 12_10MHz_QPSK_23130_1RB#0



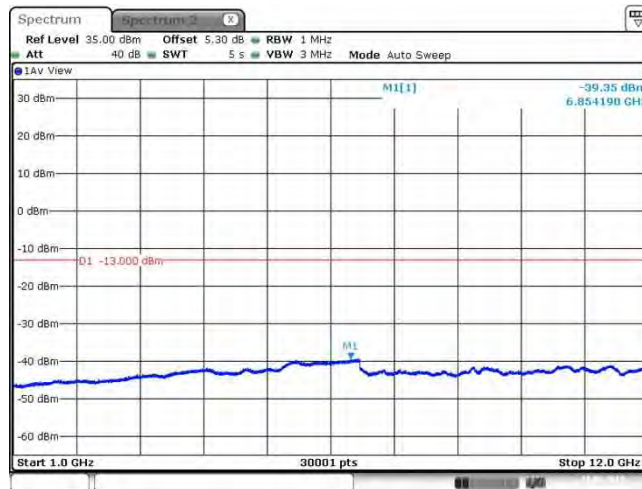
Date: 10 AUG 2018 06:44:38



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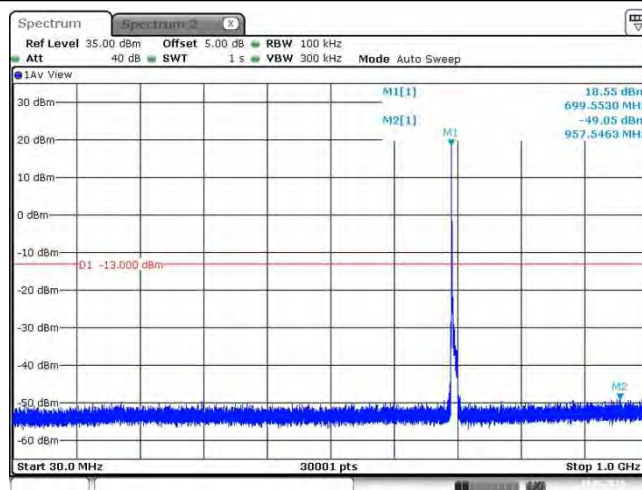
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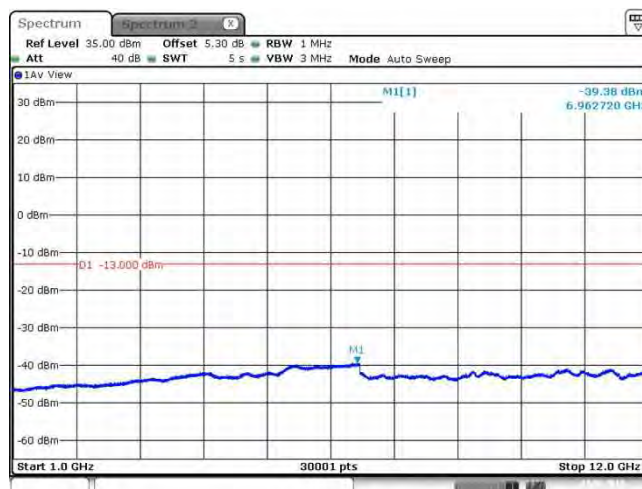


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Date: 10 AUG 2018 06:38:50



Date: 10 AUG 2018 06:39:57

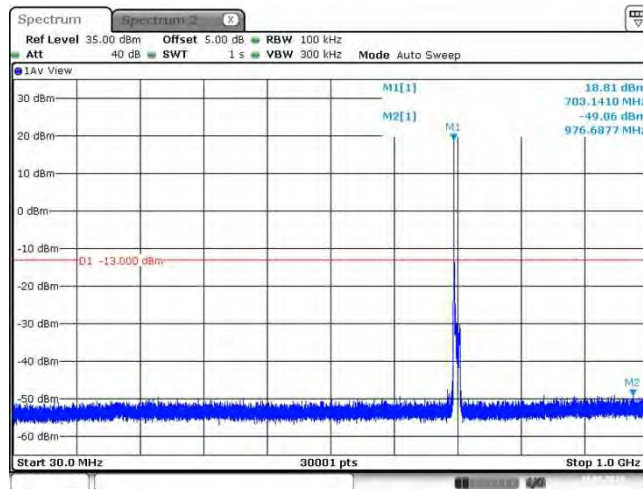
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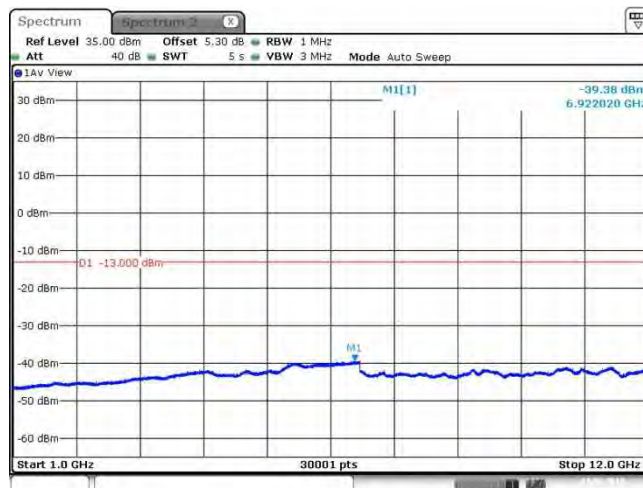
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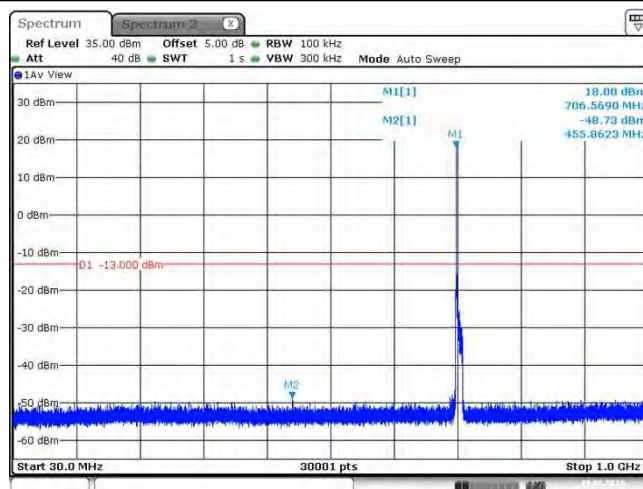


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Date: 10 AUG 2018 06:44:19

BAND 12_10MHz_16QAM_23130_1RB#0



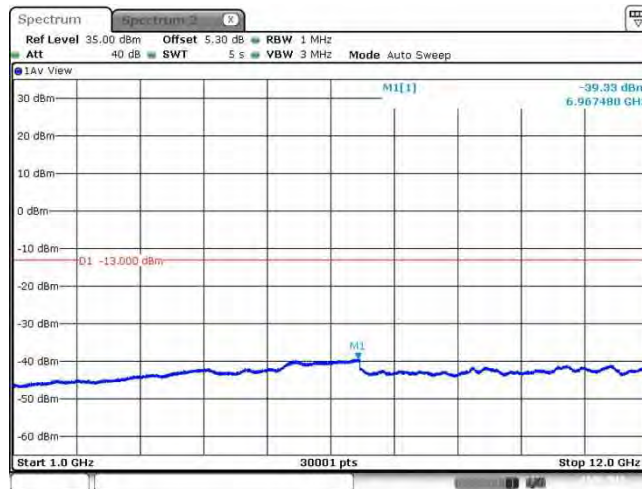
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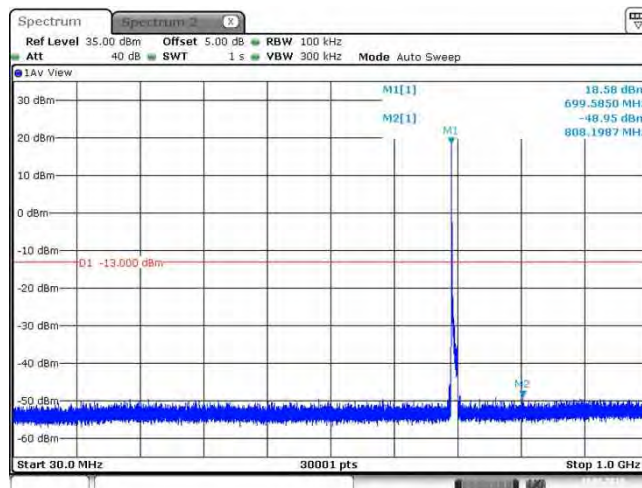
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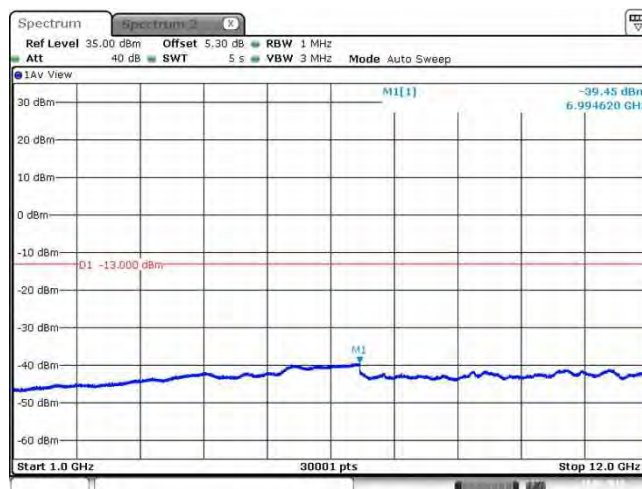


Date: 10 AUG 2018 06:48:40

BAND 12_10MHz_64QAM_23060_1RB#0



Date: 10 AUG 2018 06:37:23



Date: 10 AUG 2018 06:38:30

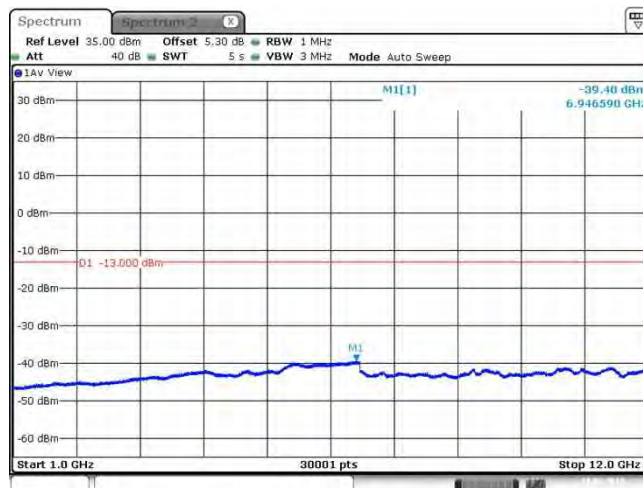
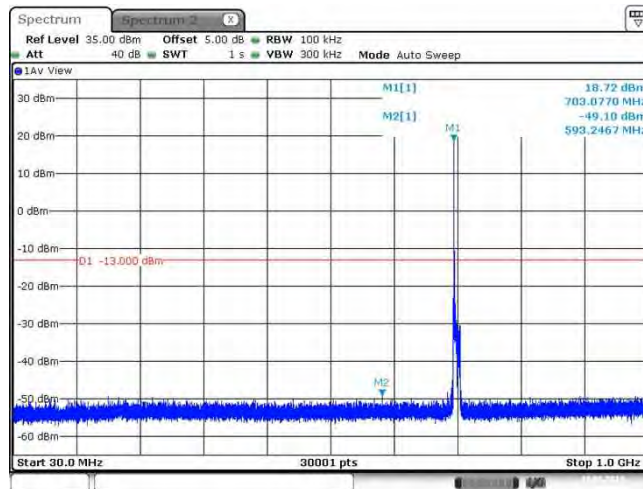
BAND 12_10MHz_64QAM_23095_1RB#0



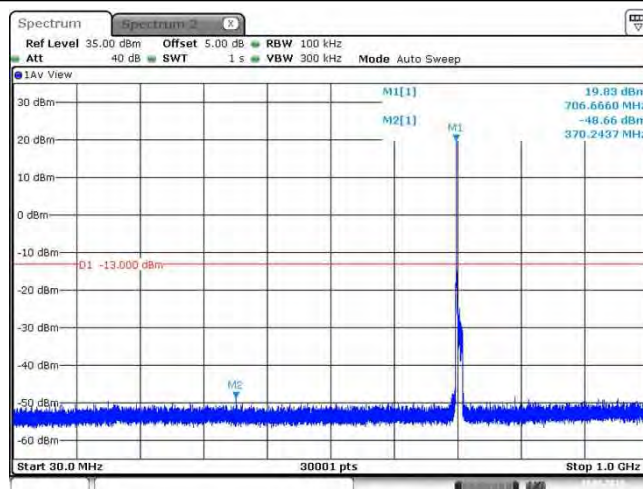
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BAND 12_10MHz_64QAM_23130_1RB#0

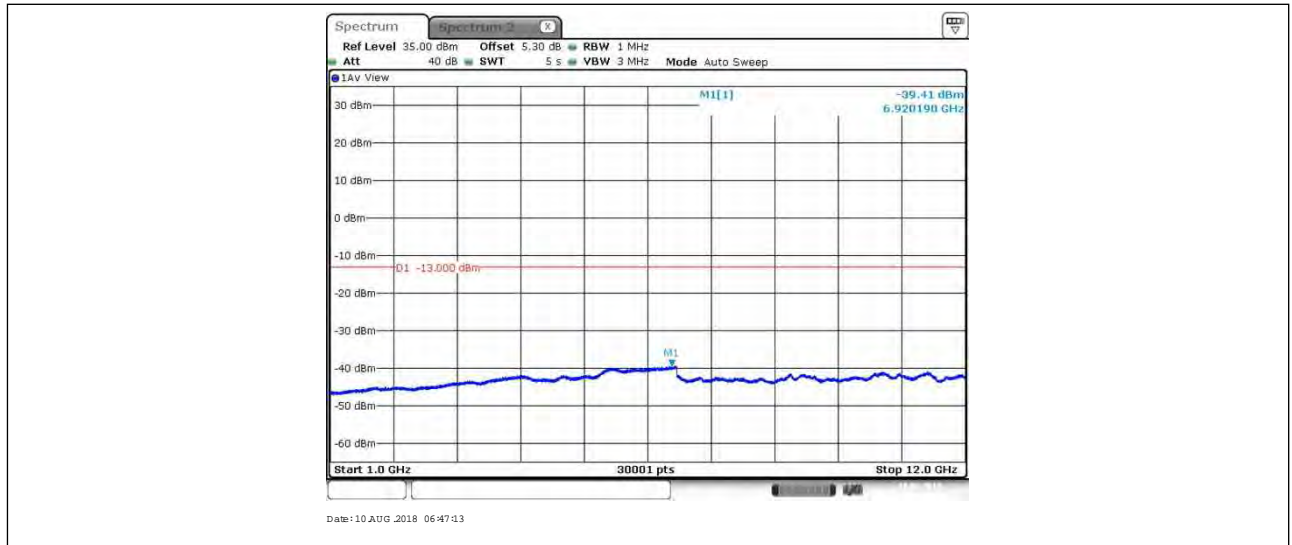




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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 12

7.1.1. Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.486667	-81.96	-13.00	68.96	Vertical
104.293333	-83.76	-13.00	70.76	Vertical
342.480000	-85.71	-13.00	72.71	Vertical
1403.000000	-67.77	-13.00	54.77	Vertical
2111.000000	-61.83	-13.00	48.83	Vertical
2881.000000	-57.43	-13.00	44.43	Vertical
63.320000	-78.24	-13.00	65.24	Horizontal
104.293333	-88.86	-13.00	75.86	Horizontal
276.073333	-87.56	-13.00	74.56	Horizontal
1403.000000	-67.60	-13.00	54.60	Horizontal
2099.000000	-62.23	-13.00	49.23	Horizontal
2834.500000	-57.45	-13.00	44.45	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.486667	-82.36	-13.00	69.36	Vertical
104.293333	-84.66	-13.00	71.66	Vertical
360.960000	-85.47	-13.00	72.47	Vertical
1403.500000	-67.72	-13.00	54.72	Vertical
2127.500000	-61.85	-13.00	48.85	Vertical
2873.000000	-57.46	-13.00	44.46	Vertical
62.760000	-77.47	-13.00	64.47	Horizontal
104.293333	-86.55	-13.00	73.55	Horizontal
264.173333	-87.22	-13.00	74.22	Horizontal
1407.000000	-67.44	-13.00	54.44	Horizontal



2312.500000	-59.31	-13.00	46.31	Horizontal
4299.187500	-66.81	-13.00	53.81	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.813333	-82.04	-13.00	69.04	Vertical
104.293333	-83.57	-13.00	70.57	Vertical
339.353333	-85.91	-13.00	72.91	Vertical
1416.000000	-67.56	-13.00	54.56	Vertical
2104.500000	-62.13	-13.00	49.13	Vertical
2800.000000	-57.74	-13.00	44.74	Vertical
62.760000	-77.99	-13.00	64.99	Horizontal
104.293333	-89.28	-13.00	76.28	Horizontal
259.553333	-87.54	-13.00	74.54	Horizontal
1416.000000	-67.37	-13.00	54.37	Horizontal
2127.500000	-62.38	-13.00	49.38	Horizontal
2881.500000	-56.85	-13.00	43.85	Horizontal

NOTE:

- 1) All modes are tested, but the data presented above is the worst case. the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND12	10MHz	QPSK	23060	50RB#0	VH	NT	2.30	0.003267	±2.5	PASS
				50RB#0	VL	NT	2.80	0.003977	±2.5	PASS
				50RB#0	VN	NT	2.10	0.002983	±2.5	PASS
			23095	50RB#0	VH	NT	1.50	0.002120	±2.5	PASS
				50RB#0	VL	NT	3.40	0.004806	±2.5	PASS
				50RB#0	VN	NT	0.90	0.001272	±2.5	PASS
			23130	50RB#0	VH	NT	2.20	0.003094	±2.5	PASS
				50RB#0	VL	NT	2.20	0.003094	±2.5	PASS
				50RB#0	VN	NT	2.20	0.003094	±2.5	PASS
		16QAM	23060	50RB#0	VH	NT	2.00	0.002841	±2.5	PASS
				50RB#0	VL	NT	2.20	0.003125	±2.5	PASS
				50RB#0	VN	NT	1.50	0.002131	±2.5	PASS
			23095	50RB#0	VH	NT	2.20	0.003110	±2.5	PASS
				50RB#0	VL	NT	2.20	0.003110	±2.5	PASS
				50RB#0	VN	NT	2.20	0.003110	±2.5	PASS
			23130	50RB#0	VH	NT	2.20	0.003094	±2.5	PASS
				50RB#0	VL	NT	2.20	0.003094	±2.5	PASS
				50RB#0	VN	NT	2.20	0.003094	±2.5	PASS
		64QAM	23060	50RB#0	VH	NT	3.00	0.004261	±2.5	PASS
				50RB#0	VL	NT	0.60	0.000852	±2.5	PASS
				50RB#0	VN	NT	1.80	0.002557	±2.5	PASS
			23095	50RB#0	VH	NT	2.20	0.003110	±2.5	PASS
				50RB#0	VL	NT	2.20	0.003110	±2.5	PASS
				50RB#0	VN	NT	2.20	0.003110	±2.5	PASS
			23130	50RB#0	VH	NT	2.20	0.003094	±2.5	PASS
				50RB#0	VL	NT	2.20	0.003094	±2.5	PASS
				50RB#0	VN	NT	2.20	0.003094	±2.5	PASS

8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BAND12	10MHz	QPSK	23060	50RB#0	NV	0	1.70	0.002415	±2.5	PASS
				50RB#0	NV	10	1.90	0.002699	±2.5	PASS
				50RB#0	NV	20	2.20	0.003125	±2.5	PASS
				50RB#0	NV	-20	2.40	0.003409	±2.5	PASS
				50RB#0	NV	-30	1.20	0.001705	±2.5	PASS
			23095	50RB#0	NV	0	2.20	0.003110	±2.5	PASS



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		16QAM		50RB#0	NV	10	2.20	0.003110	±2.5	PASS
				50RB#0	NV	20	2.20	0.003110	±2.5	PASS
				50RB#0	NV	-20	2.20	0.003110	±2.5	PASS
				50RB#0	NV	-30	2.20	0.003110	±2.5	PASS
			23130	50RB#0	NV	0	2.20	0.003094	±2.5	PASS
				50RB#0	NV	10	2.20	0.003094	±2.5	PASS
				50RB#0	NV	20	2.20	0.003094	±2.5	PASS
				50RB#0	NV	-20	2.20	0.003094	±2.5	PASS
				50RB#0	NV	-30	2.20	0.003094	±2.5	PASS
			23060	50RB#0	NV	0	3.20	0.004545	±2.5	PASS
				50RB#0	NV	10	3.80	0.005398	±2.5	PASS
				50RB#0	NV	20	2.60	0.003693	±2.5	PASS
				50RB#0	NV	-20	1.20	0.001705	±2.5	PASS
				50RB#0	NV	-30	1.50	0.002131	±2.5	PASS
			23095	50RB#0	NV	0	2.20	0.003110	±2.5	PASS
				50RB#0	NV	10	2.20	0.003110	±2.5	PASS
				50RB#0	NV	20	2.20	0.003110	±2.5	PASS
				50RB#0	NV	-20	2.20	0.003110	±2.5	PASS
				50RB#0	NV	-30	2.20	0.003110	±2.5	PASS
			23130	50RB#0	NV	0	2.20	0.003094	±2.5	PASS
				50RB#0	NV	10	2.20	0.003094	±2.5	PASS
				50RB#0	NV	20	2.20	0.003094	±2.5	PASS
				50RB#0	NV	-20	2.20	0.003094	±2.5	PASS
				50RB#0	NV	-30	2.20	0.003094	±2.5	PASS
		64QAM	23060	50RB#0	NV	0	1.30	0.001847	±2.5	PASS
				50RB#0	NV	10	2.60	0.003693	±2.5	PASS
				50RB#0	NV	20	2.50	0.003551	±2.5	PASS
				50RB#0	NV	-20	1.20	0.001705	±2.5	PASS
				50RB#0	NV	-30	1.90	0.002699	±2.5	PASS
			23095	50RB#0	NV	0	2.20	0.003110	±2.5	PASS
				50RB#0	NV	10	2.20	0.003110	±2.5	PASS
				50RB#0	NV	20	2.20	0.003110	±2.5	PASS
				50RB#0	NV	-20	2.20	0.003110	±2.5	PASS
				50RB#0	NV	-30	2.20	0.003110	±2.5	PASS
			23130	50RB#0	NV	0	2.20	0.003094	±2.5	PASS
				50RB#0	NV	10	2.20	0.003094	±2.5	PASS
				50RB#0	NV	20	2.20	0.003094	±2.5	PASS
				50RB#0	NV	-20	2.20	0.003094	±2.5	PASS
				50RB#0	NV	-30	2.20	0.003094	±2.5	PASS

The End

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