



# 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

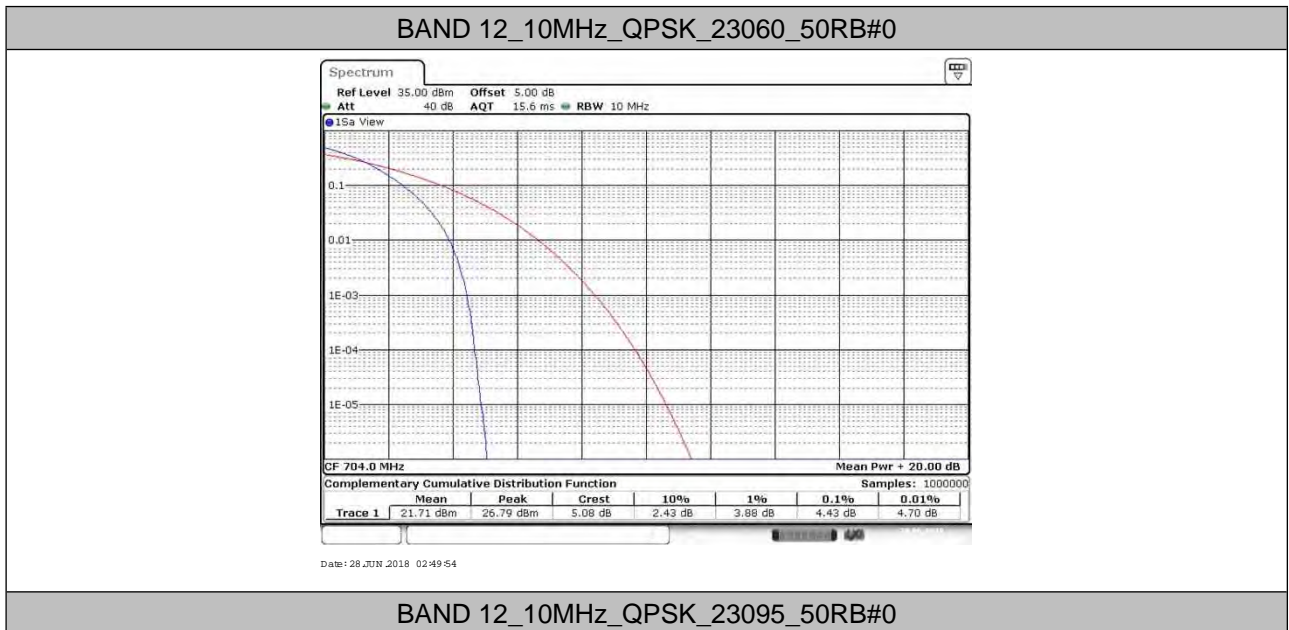


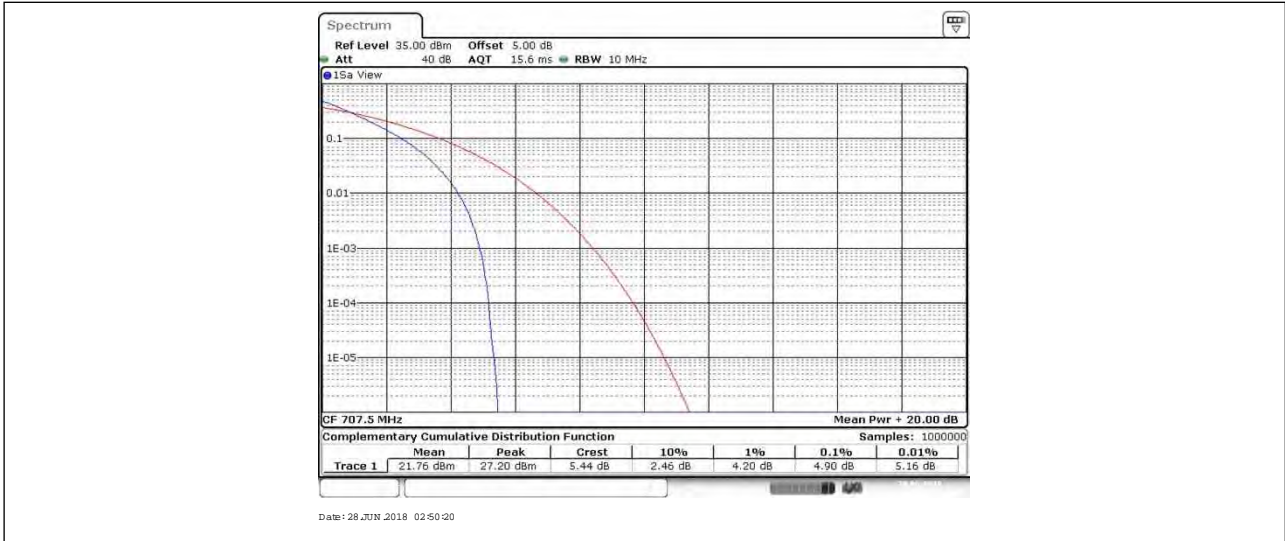
## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

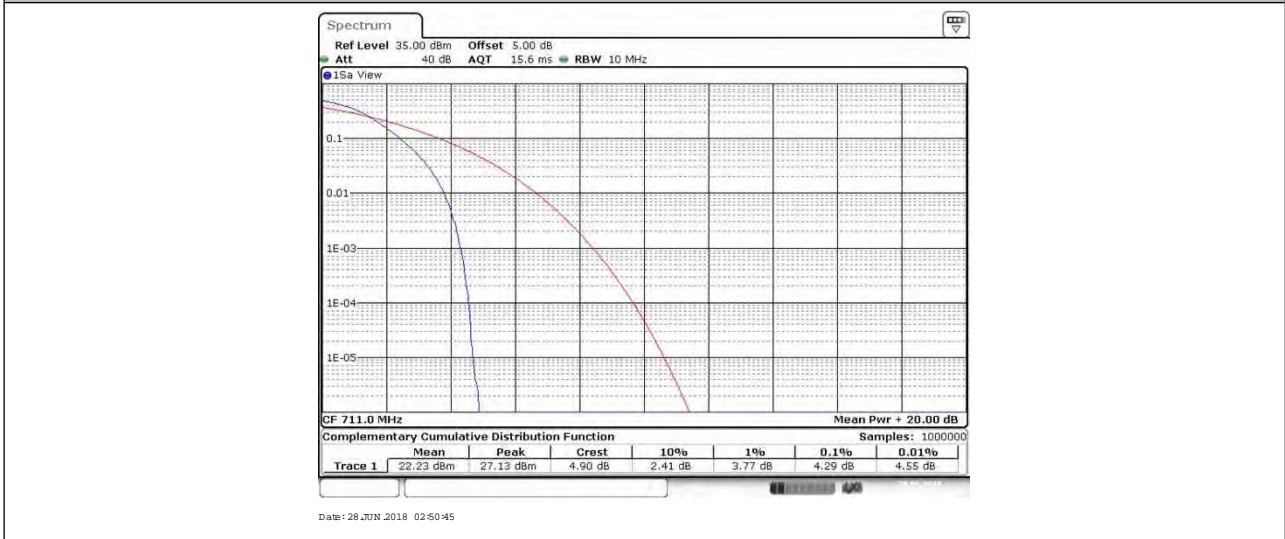
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND 12	10MHz	QPSK	23060	50RB#0	4.43	13	PASS
			23095	50RB#0	4.90	13	PASS
			23130	50RB#0	4.29	13	PASS
		16QAM	23060	50RB#0	4.81	13	PASS
			23095	50RB#0	5.39	13	PASS
			23130	50RB#0	4.84	13	PASS
		64QAM	23060	50RB#0	4.78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

### 2.2. Test Plots





BAND 12\_10MHz\_QPSK\_23130\_50RB#0

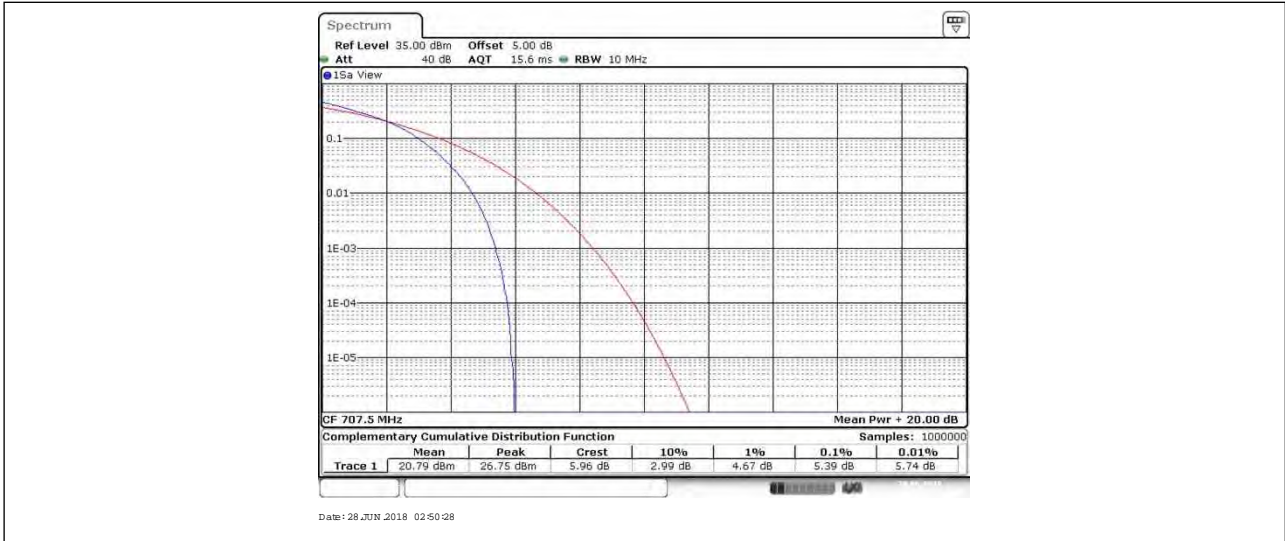


BAND 12\_10MHz\_16QAM\_23060\_50RB#0

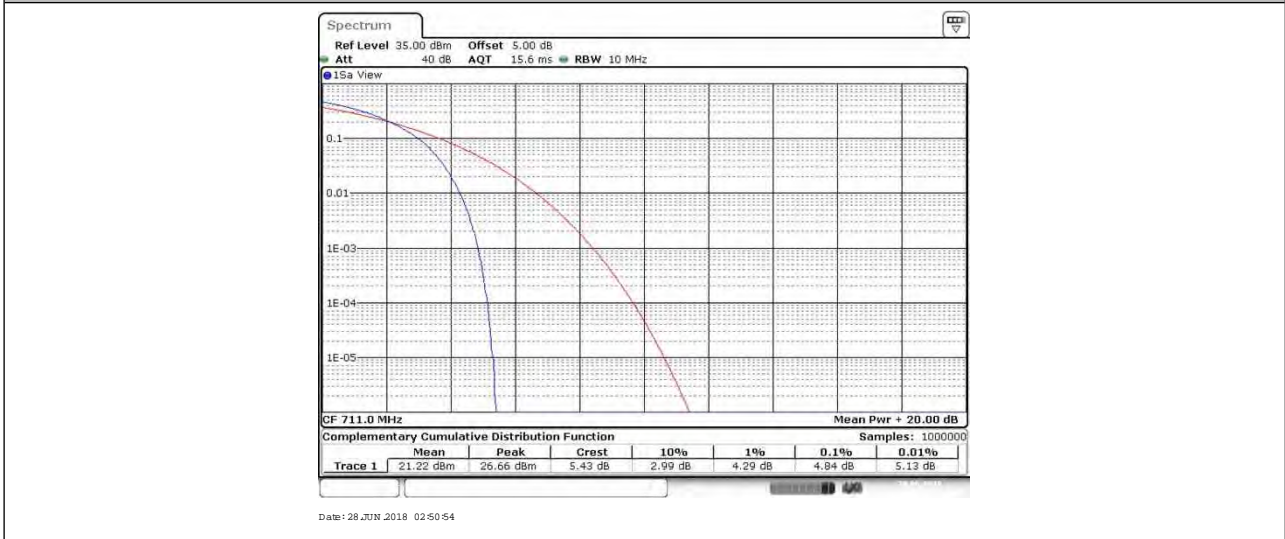


BAND 12\_10MHz\_16QAM\_23095\_50RB#0

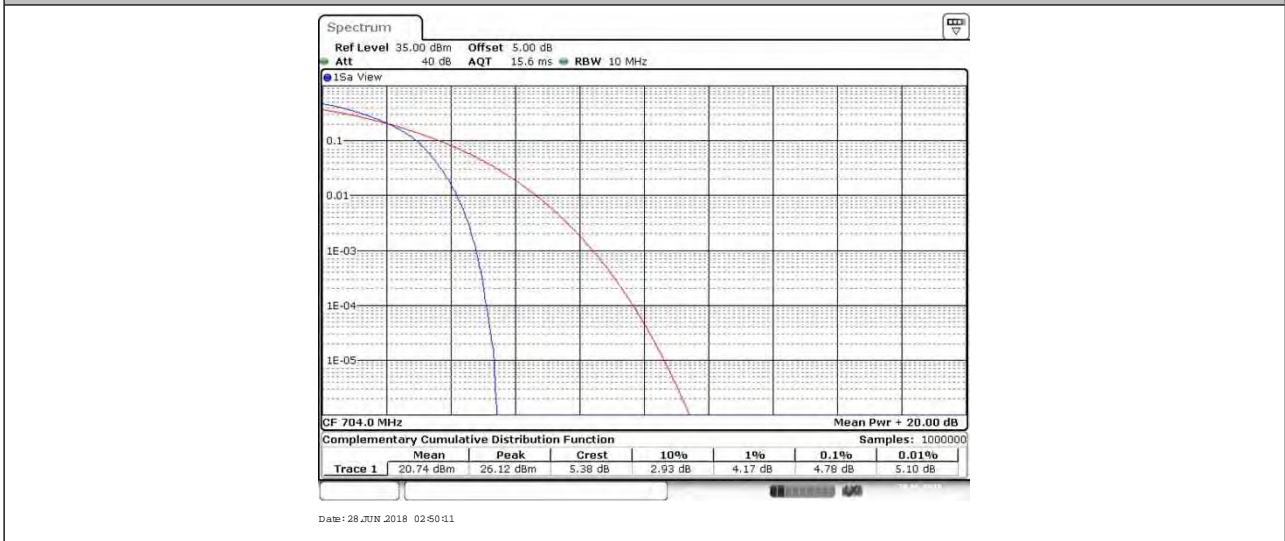




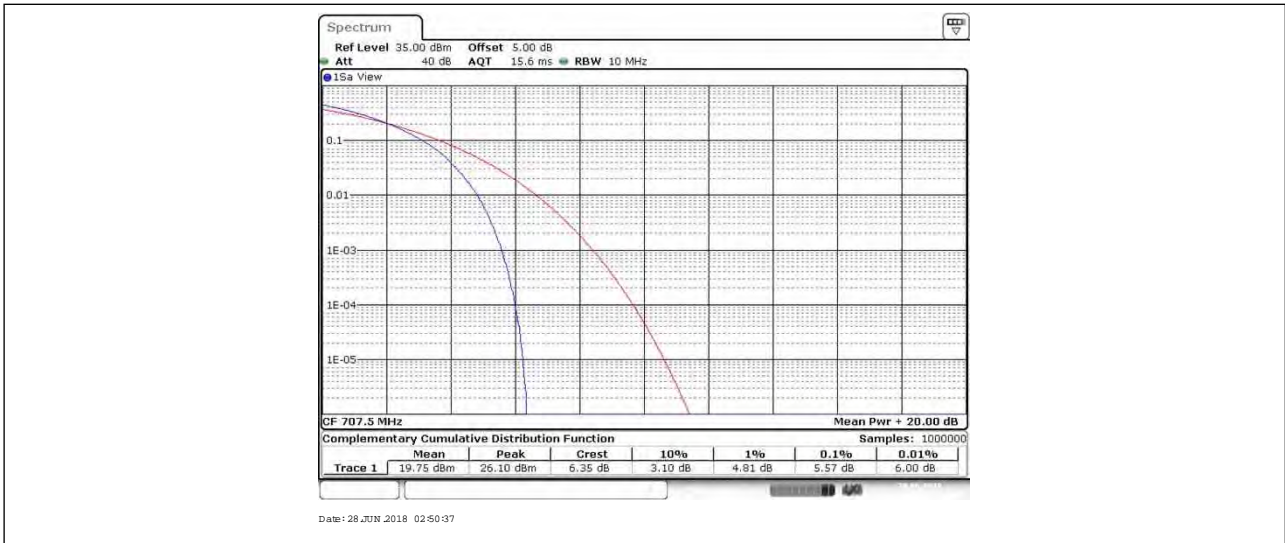
BAND 12\_10MHz\_16QAM\_23130\_50RB#0



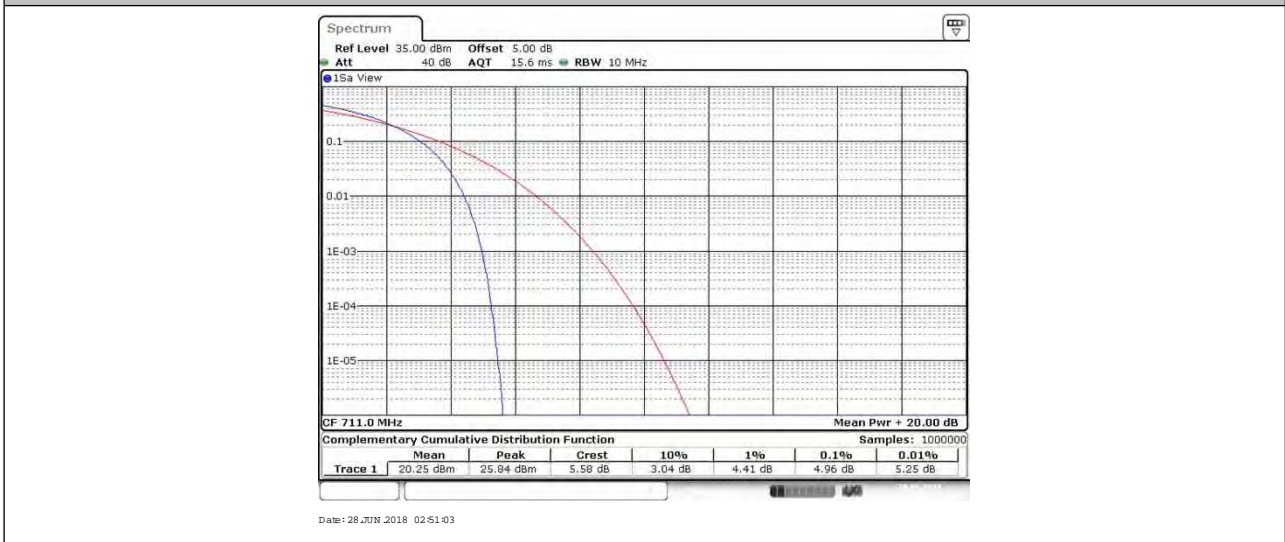
BAND 12\_10MHz\_64QAM\_23060\_50RB#0



BAND 12\_10MHz\_64QAM\_23095\_50RB#0



BAND 12\_10MHz\_64QAM\_23130\_50RB#0

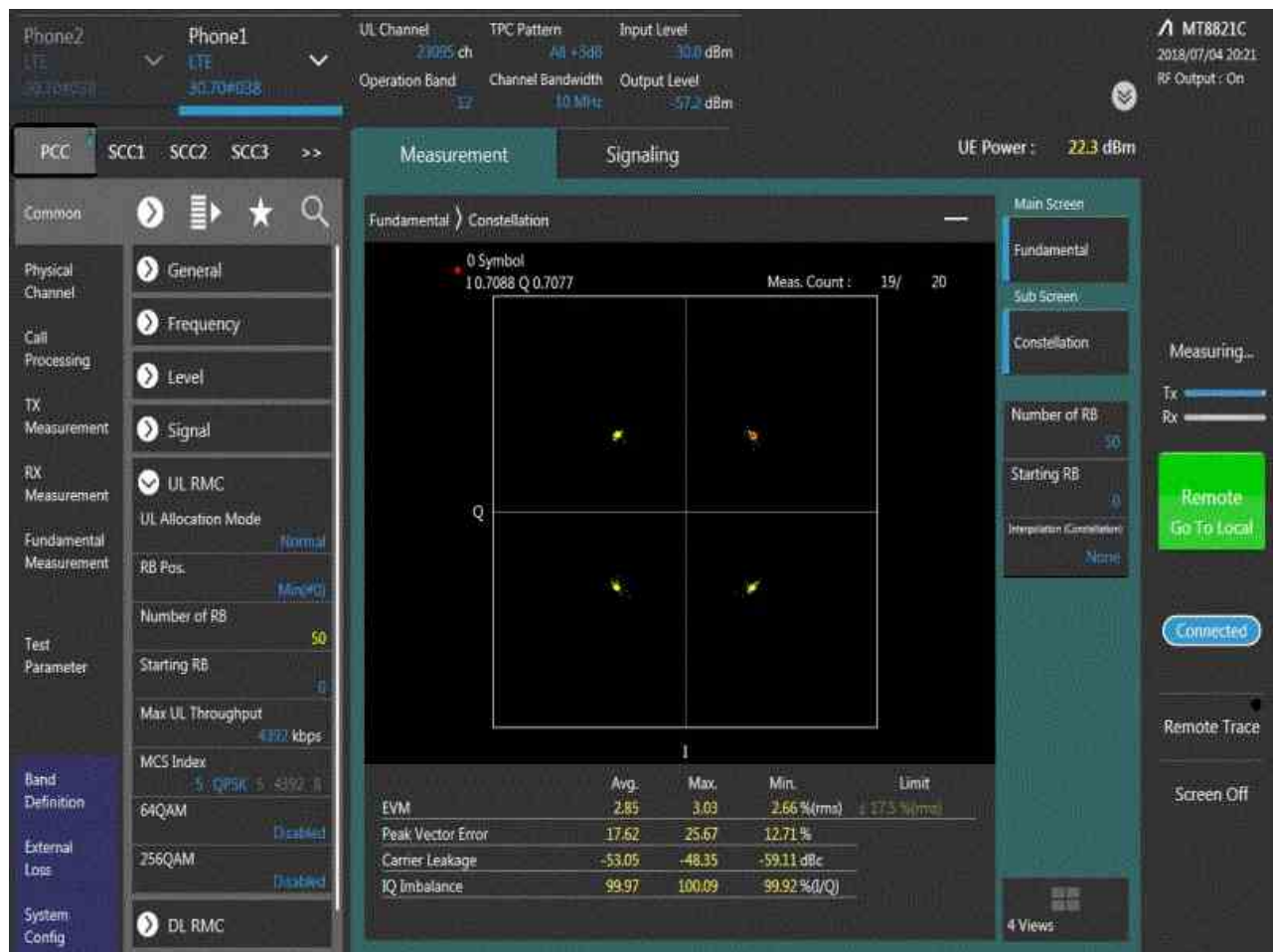


### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE BAND 12

##### 3.1.1. Test Mode = LTE /TM1 10MHz

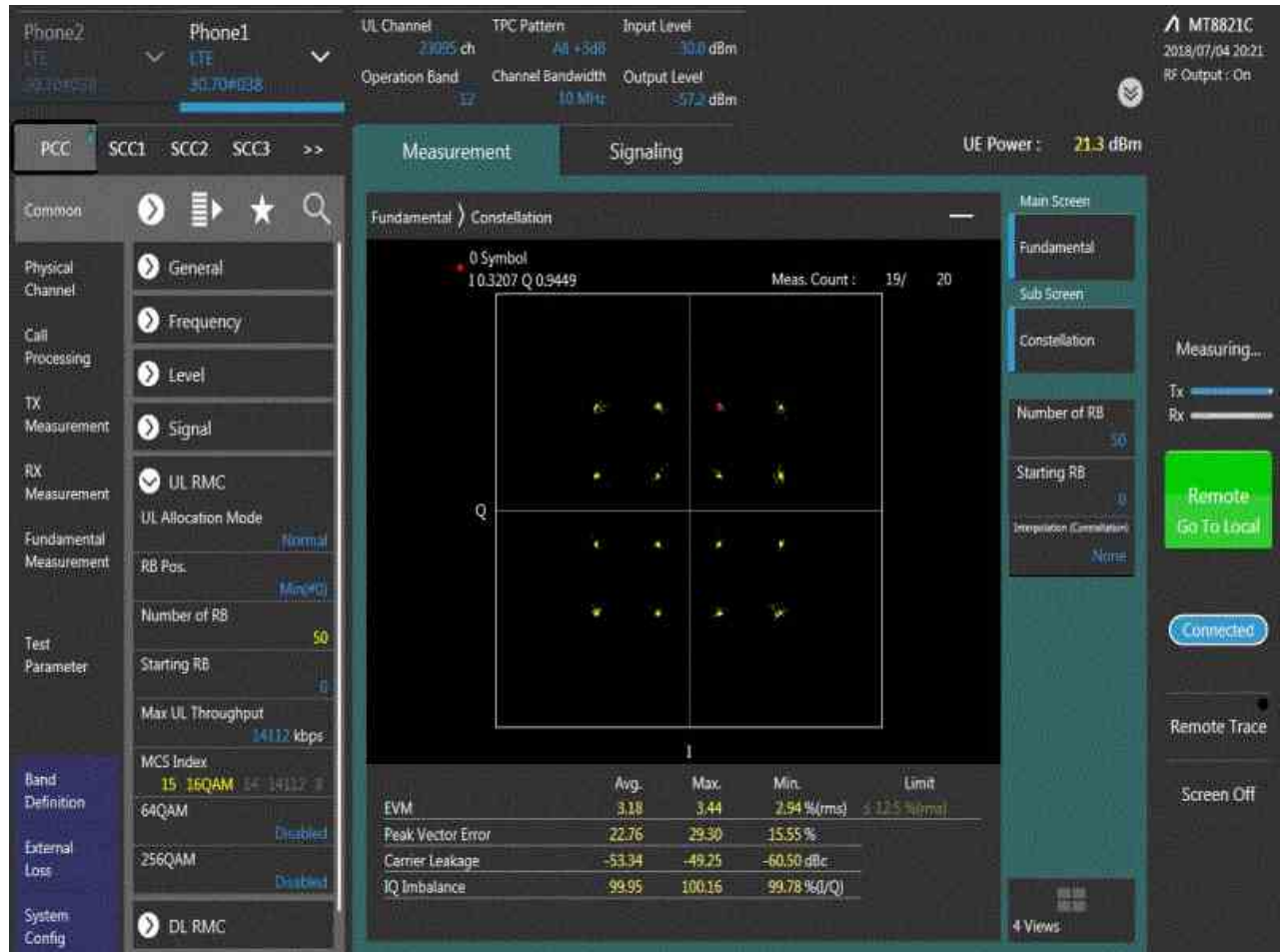
##### 3.1.1.1. Test Channel = MCH





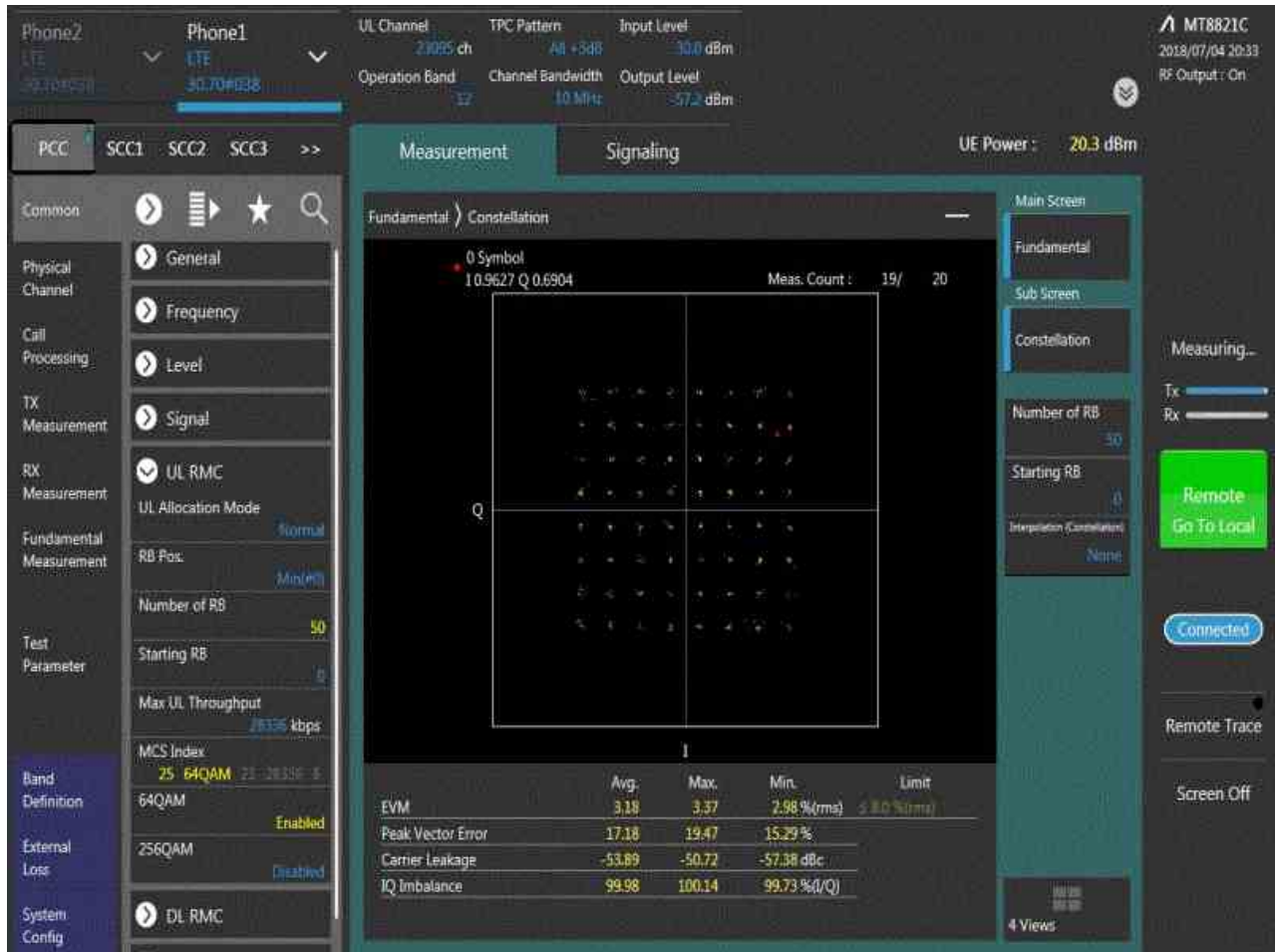
### 3.1.2. Test Mode = LTE /TM2 10MHz

#### 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

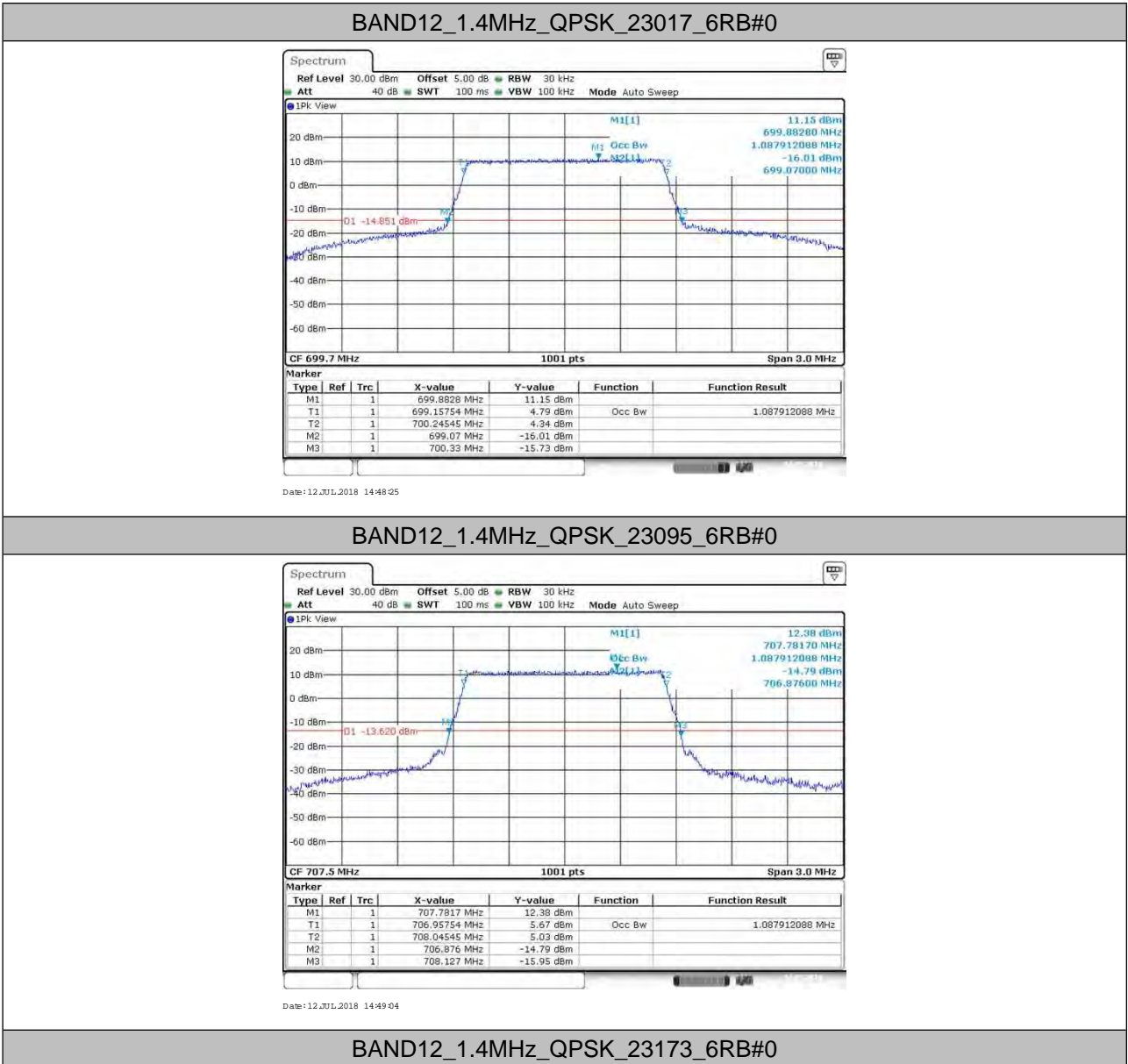
### 4.1. Test Result

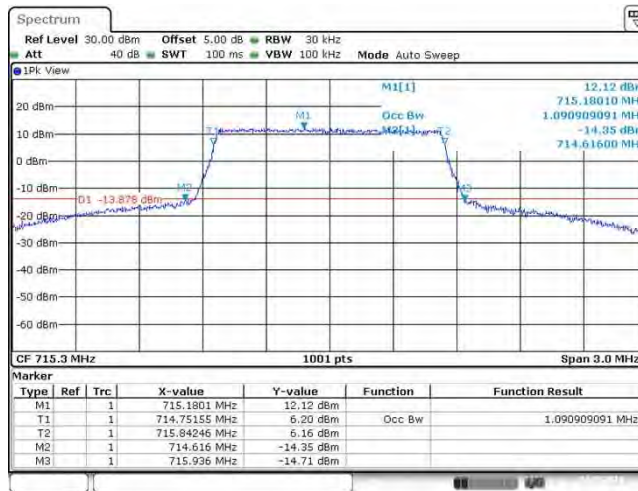
BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
BAND12	1.4MHz	QPSK	23017	6RB#0	1.088	1.260	PASS
			23095	6RB#0	1.088	1.251	PASS
			23173	6RB#0	1.091	1.320	PASS
		64QAM	23017	6RB#0	1.091	1.341	PASS
			23095	6RB#0	1.085	1.251	PASS
			23173	6RB#0	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	



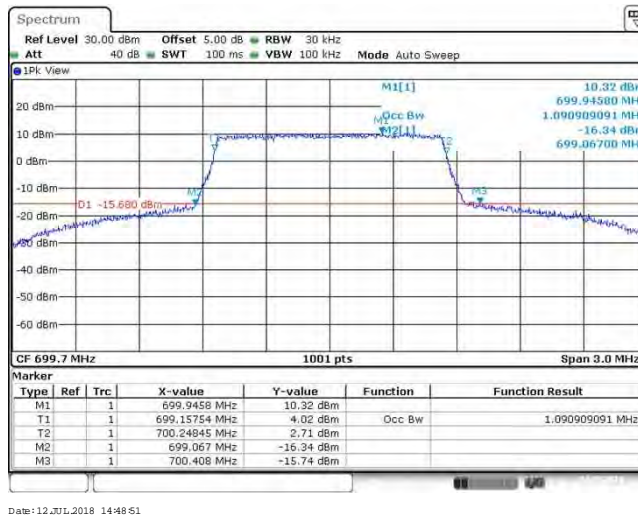
		16QAM	23060	50RB#0	8.971	10.320	PASS
			23095	50RB#0	8.971	10.220	PASS
			23130	50RB#0	8.891	10.000	PASS

**4.2. Test Plots**

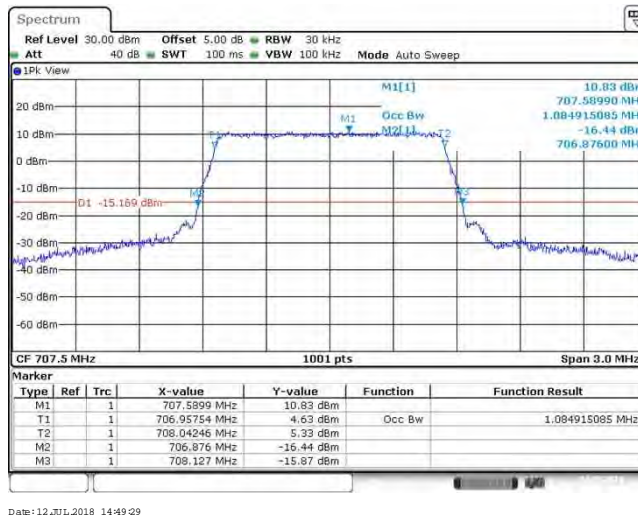




**BAND12\_1.4MHz\_64QAM\_23017\_6RB#0**

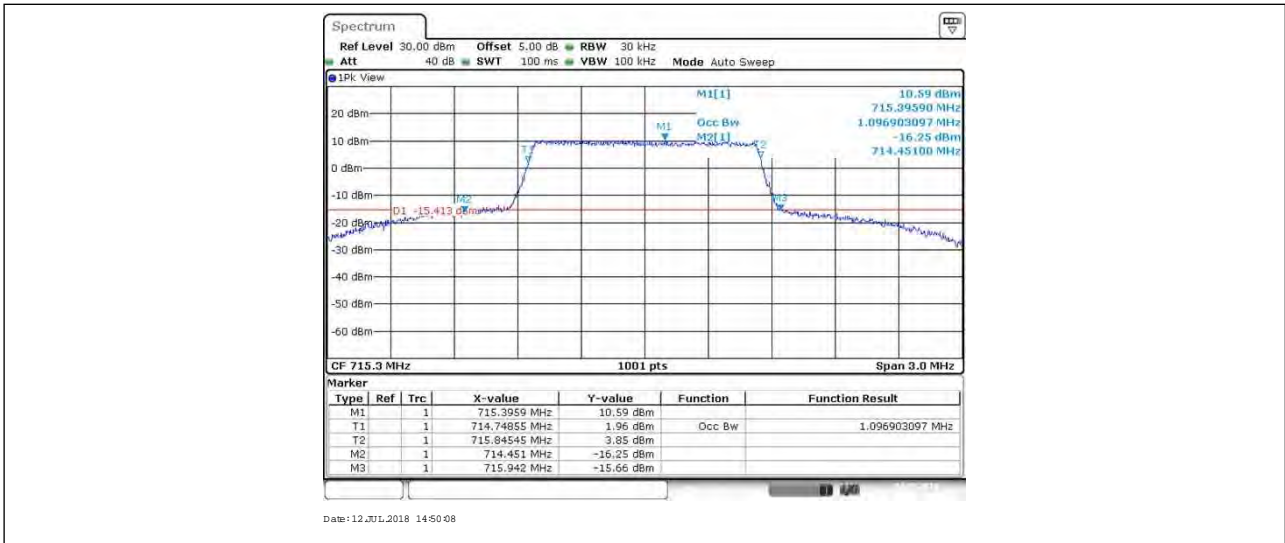


**BAND12\_1.4MHz\_64QAM\_23095\_6RB#0**

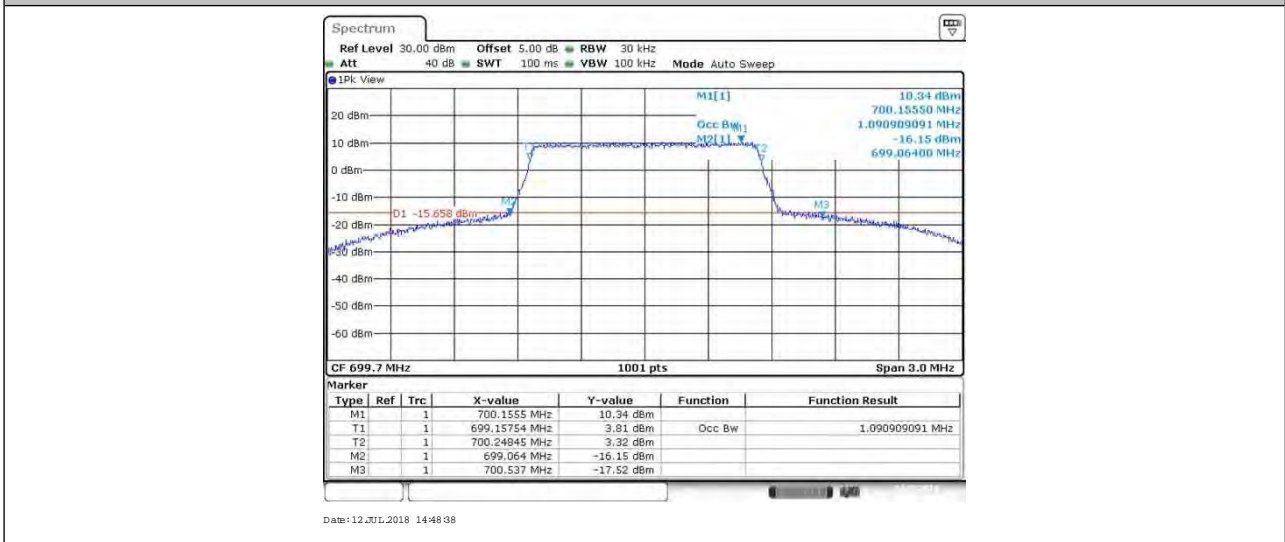


**BAND12\_1.4MHz\_64QAM\_23173\_6RB#0**

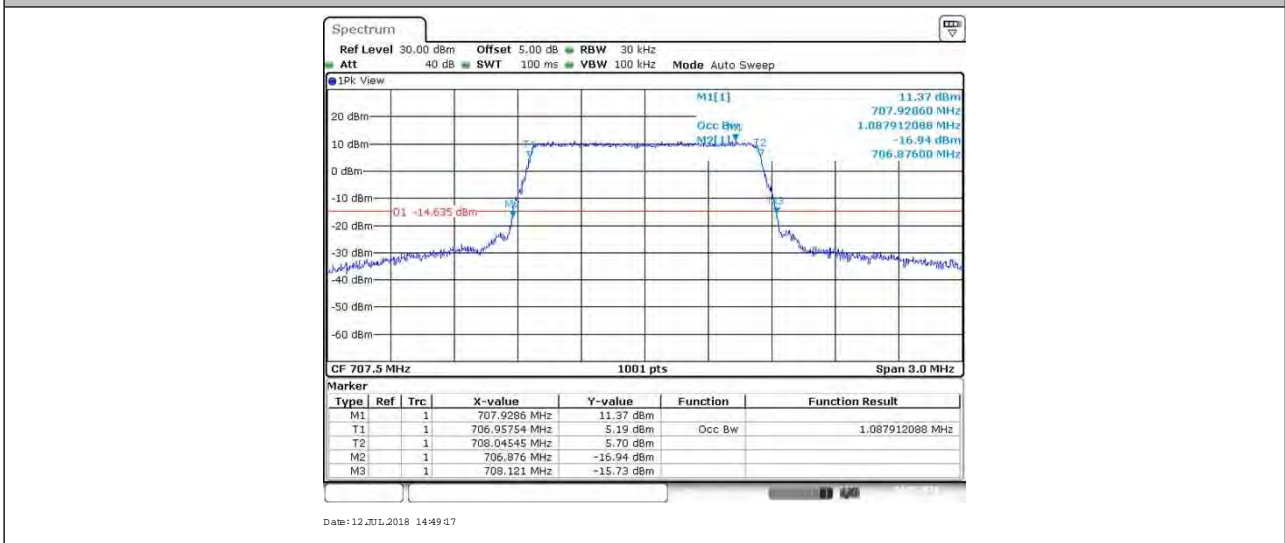




**BAND12\_1.4MHz\_16QAM\_23017\_6RB#0**

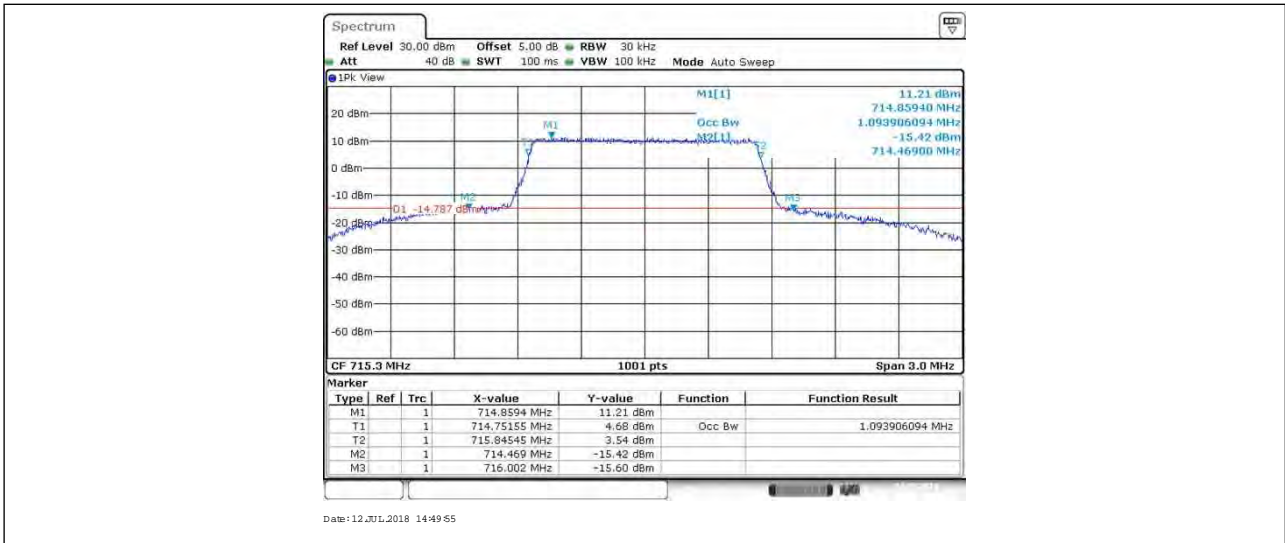


**BAND12\_1.4MHz\_16QAM\_23095\_6RB#0**

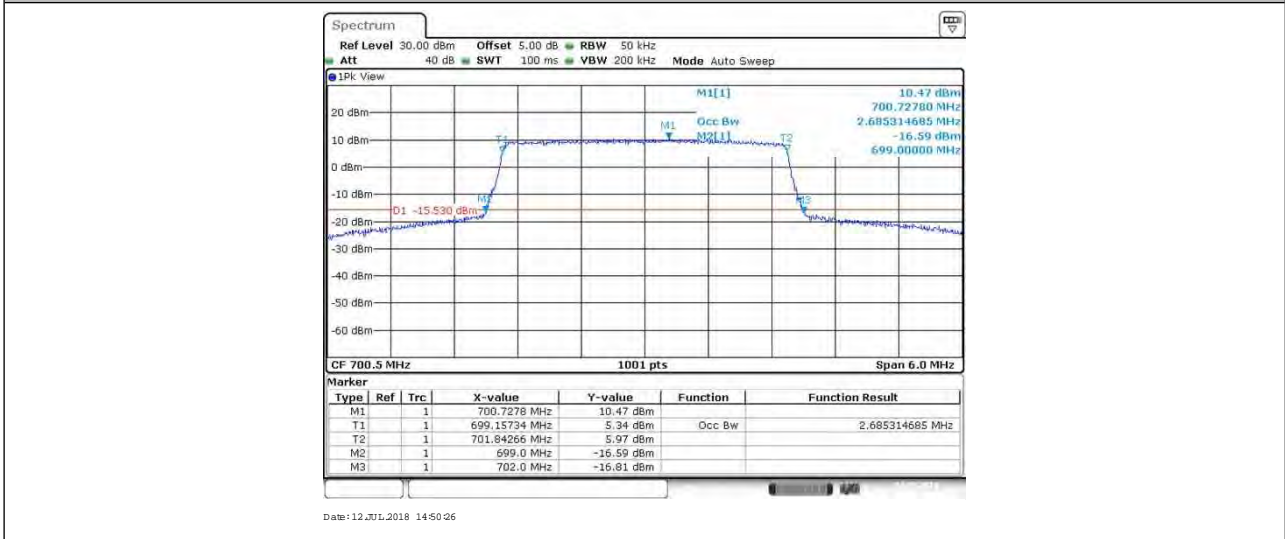


**BAND12\_1.4MHz\_16QAM\_23173\_6RB#0**

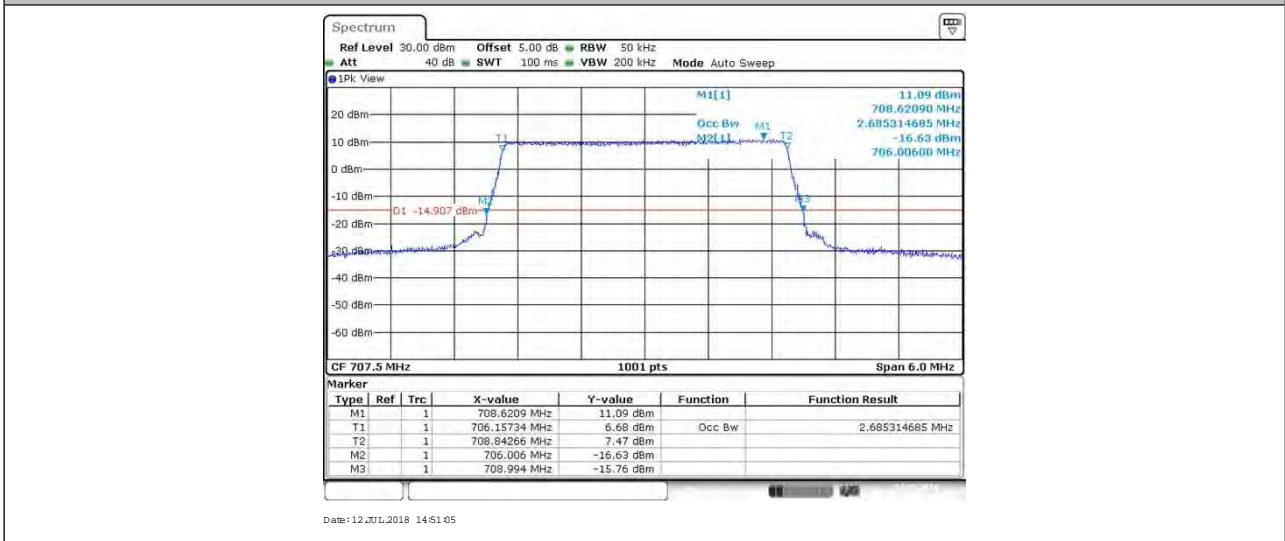




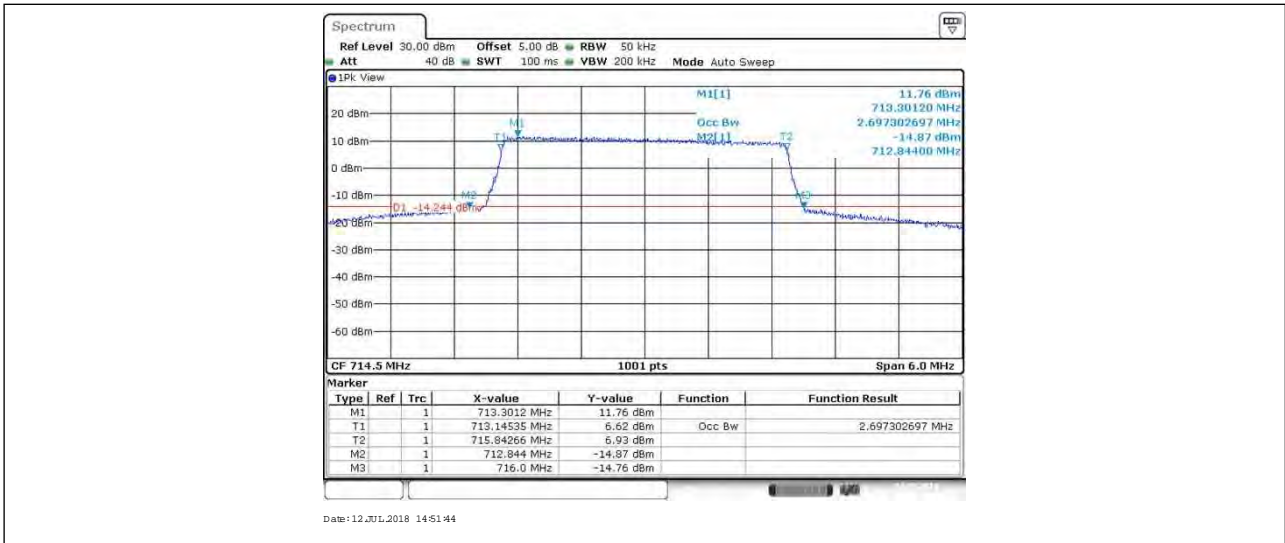
**BAND12\_3MHz\_QPSK\_23025\_15RB#0**



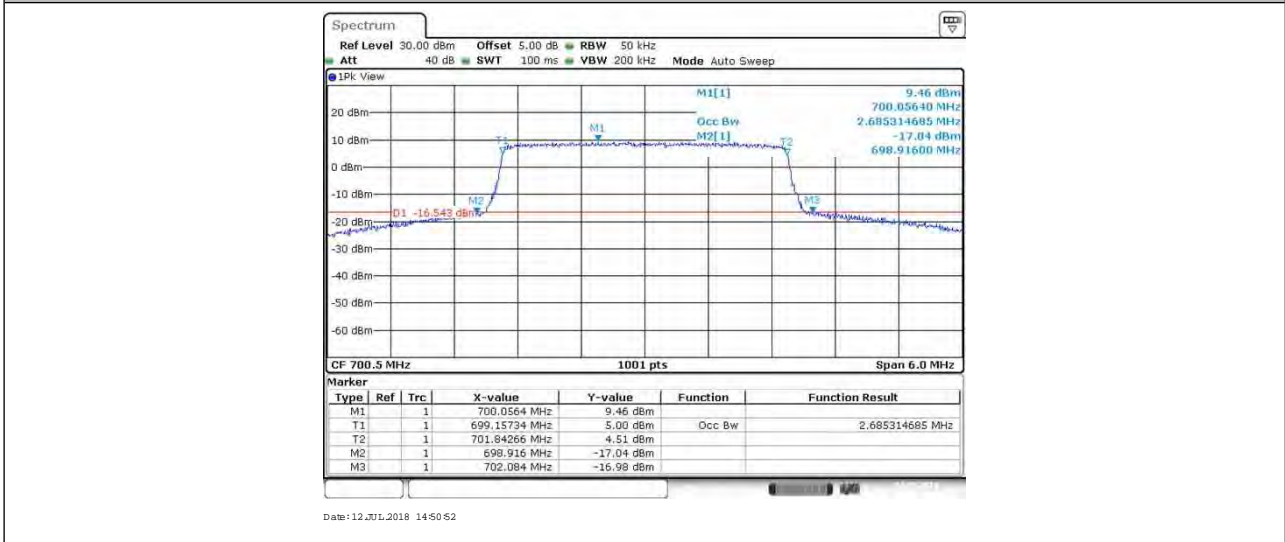
**BAND12\_3MHz\_QPSK\_23095\_15RB#0**



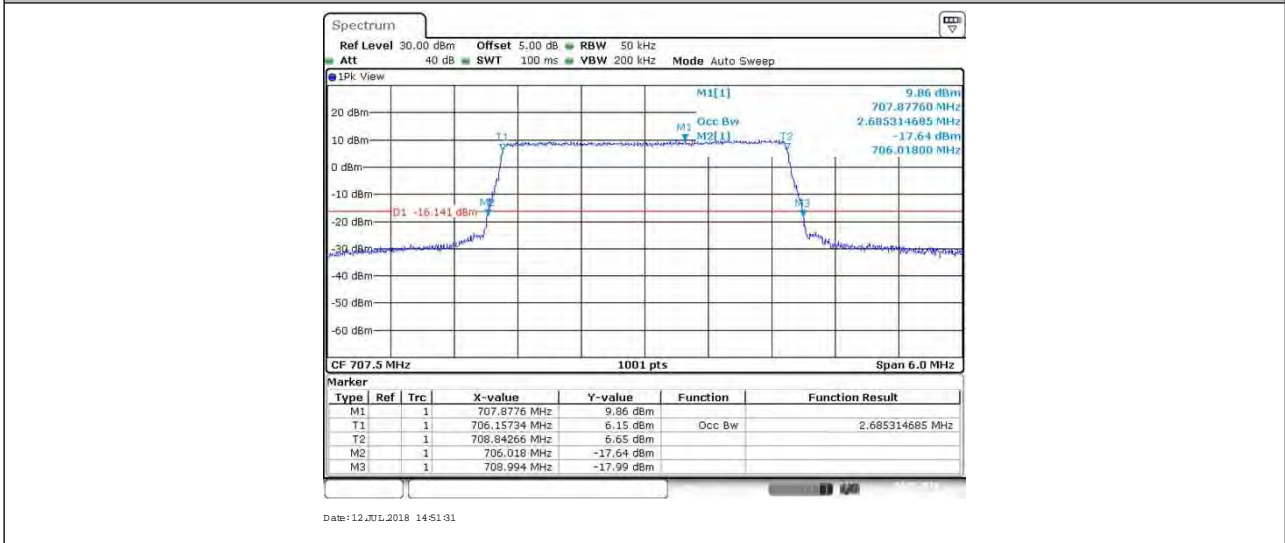
**BAND12\_3MHz\_QPSK\_23165\_15RB#0**



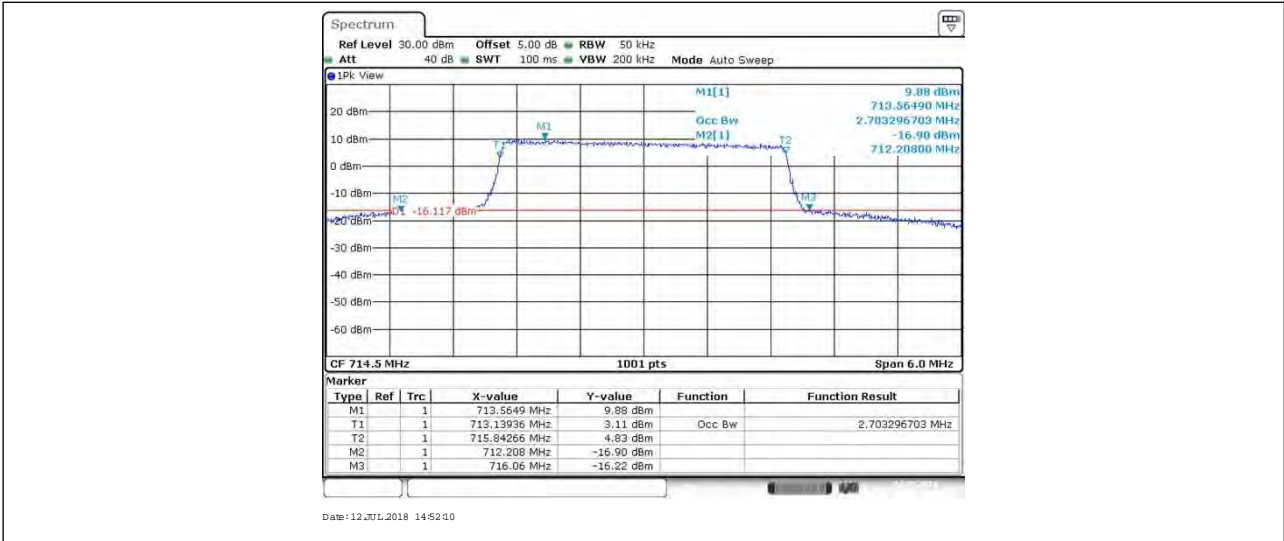
**BAND12\_3MHz\_64QAM\_23025\_15RB#0**



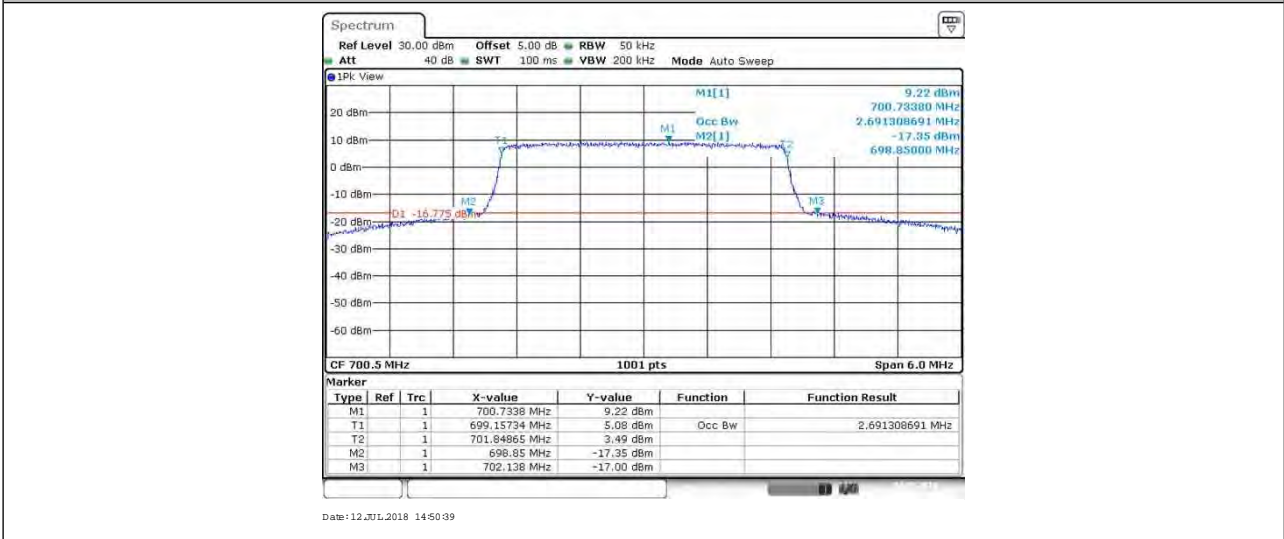
**BAND12\_3MHz\_64QAM\_23095\_15RB#0**



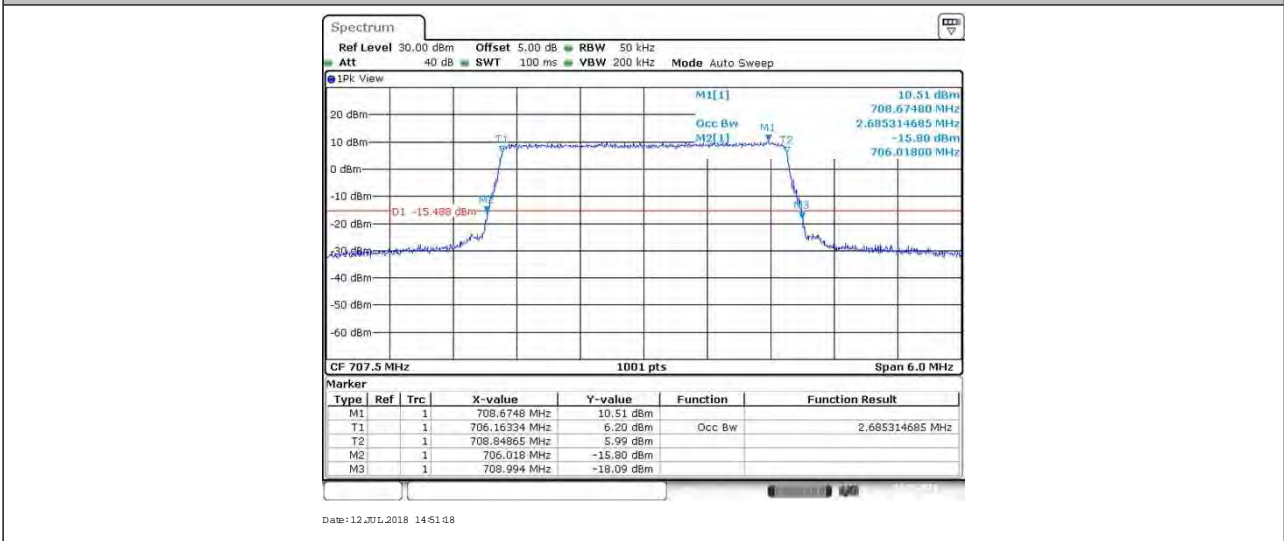
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**BAND12\_3MHz\_16QAM\_23025\_15RB#0**

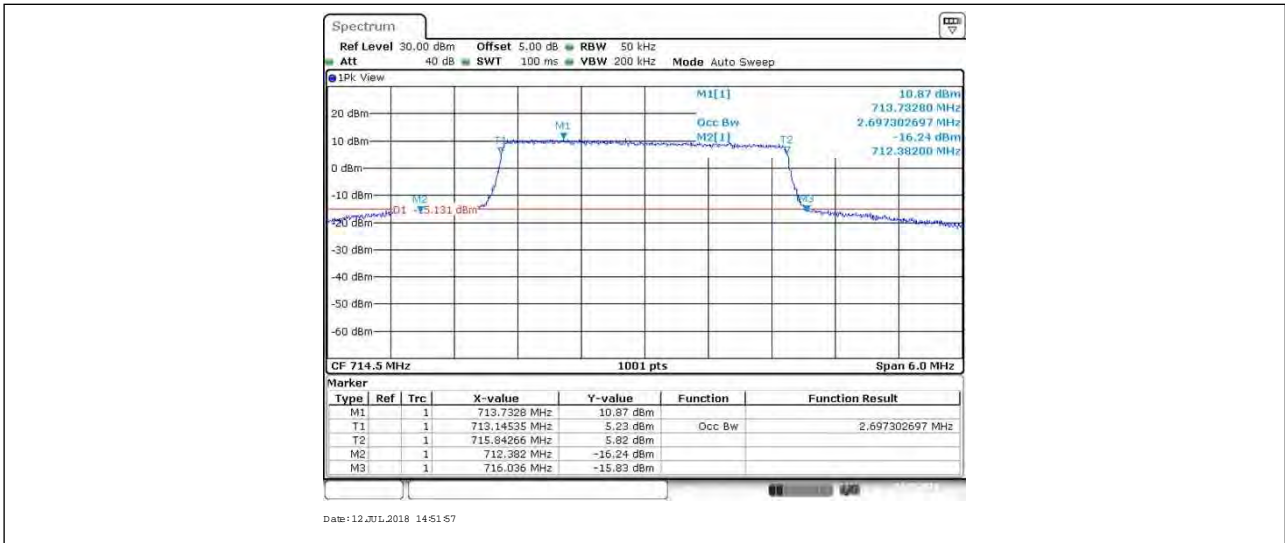


**BAND12\_3MHz\_16QAM\_23095\_15RB#0**

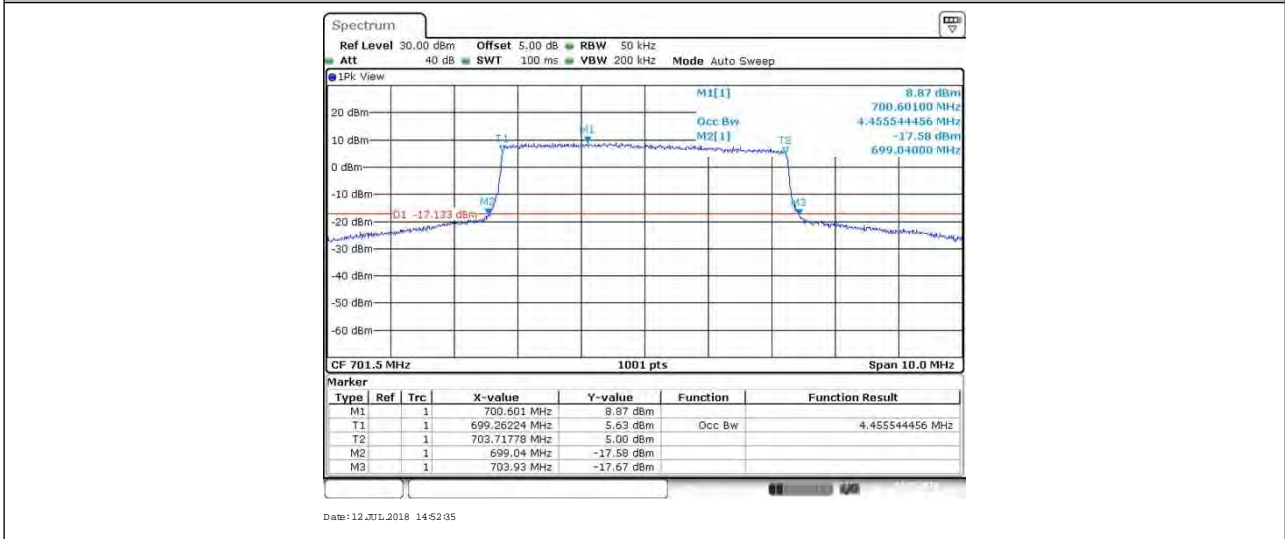


**BAND12\_3MHz\_16QAM\_23165\_15RB#0**

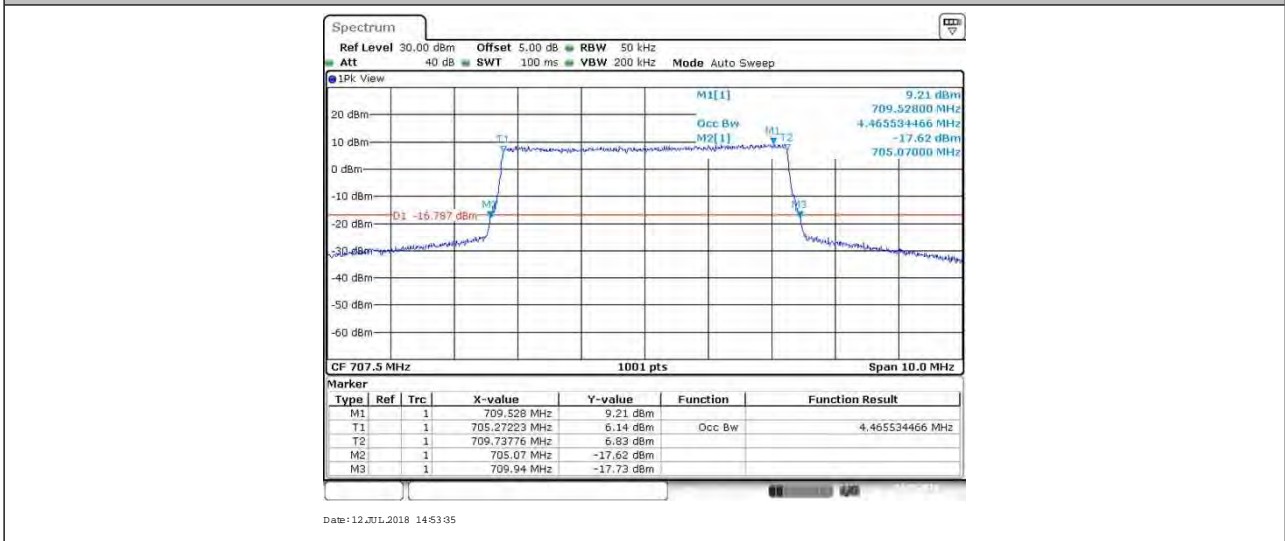




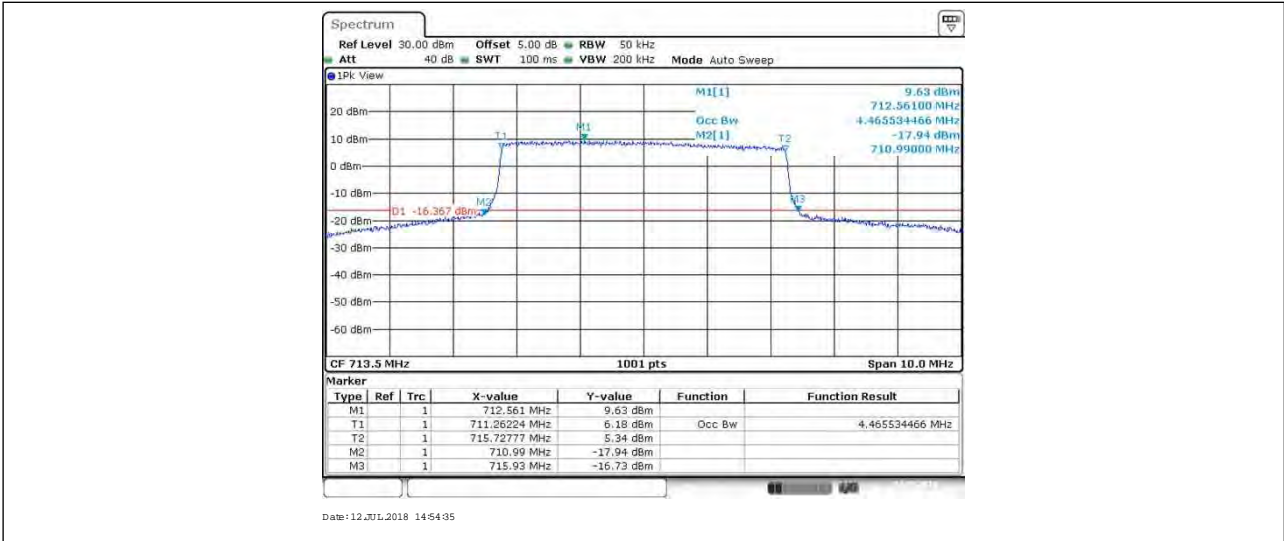
**BAND12\_5MHz\_QPSK\_23035\_25RB#0**



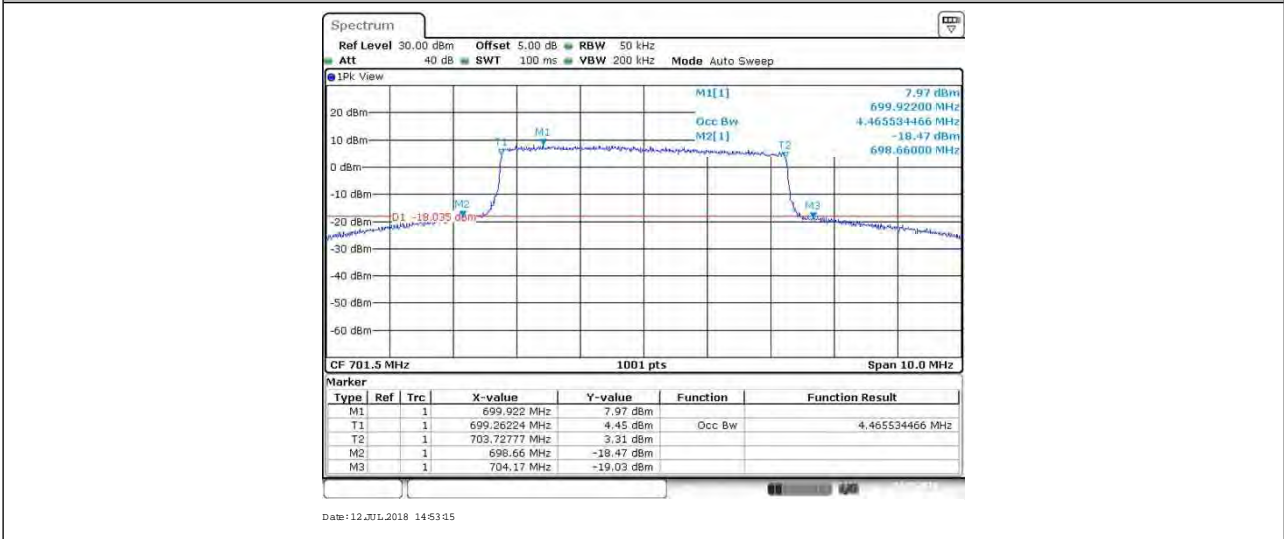
**BAND12\_5MHz\_QPSK\_23095\_25RB#0**



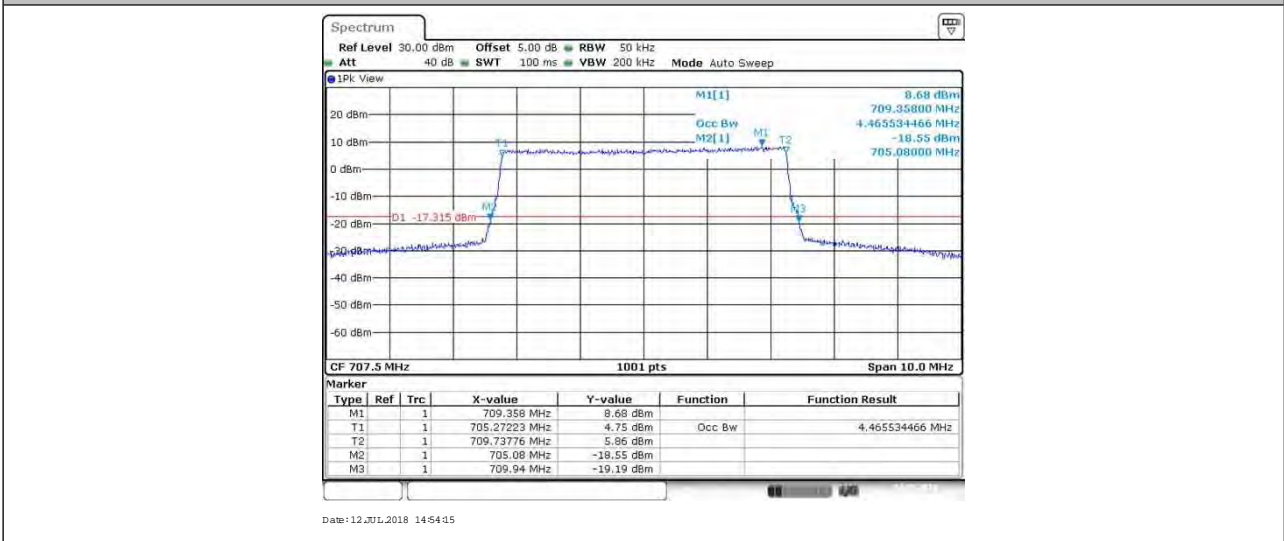
**BAND12\_5MHz\_QPSK\_23155\_25RB#0**



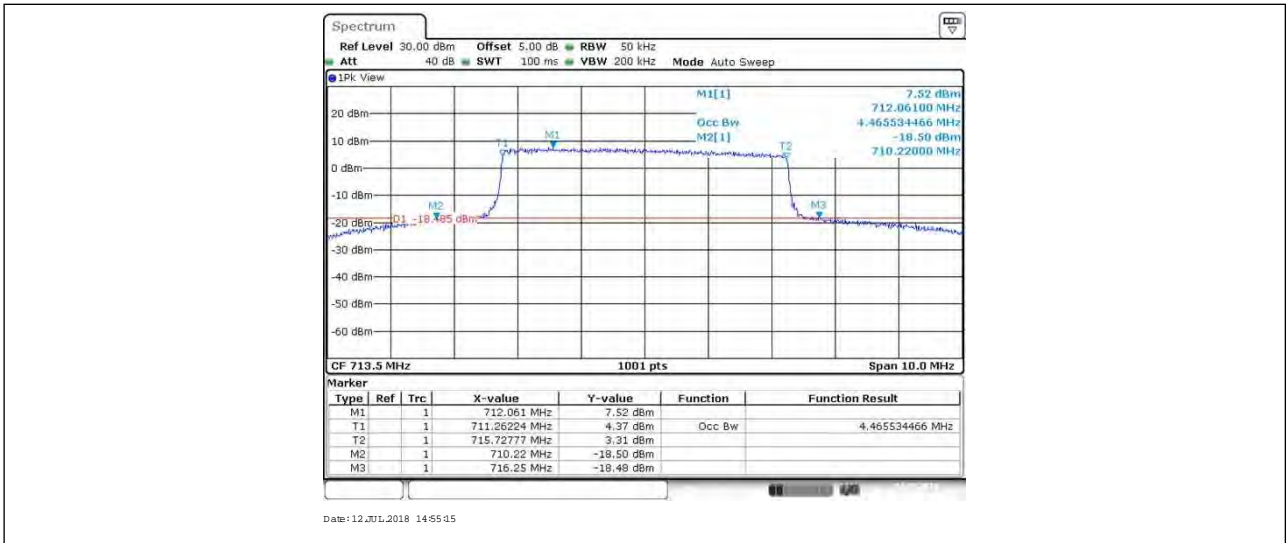
**BAND12\_5MHz\_64QAM\_23035\_25RB#0**



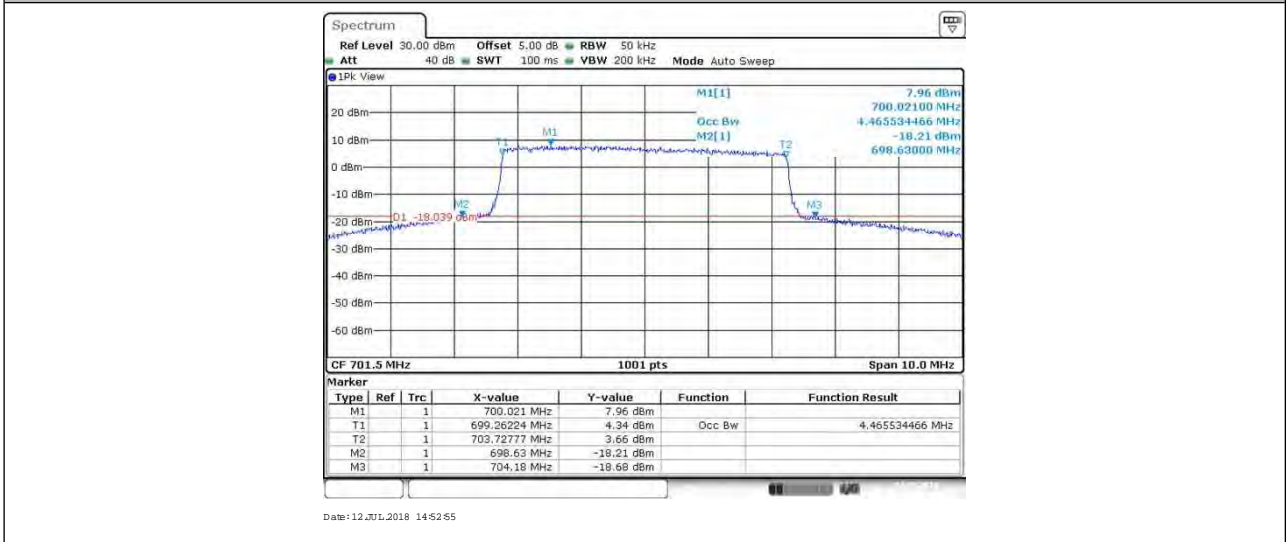
**BAND12\_5MHz\_64QAM\_23095\_25RB#0**



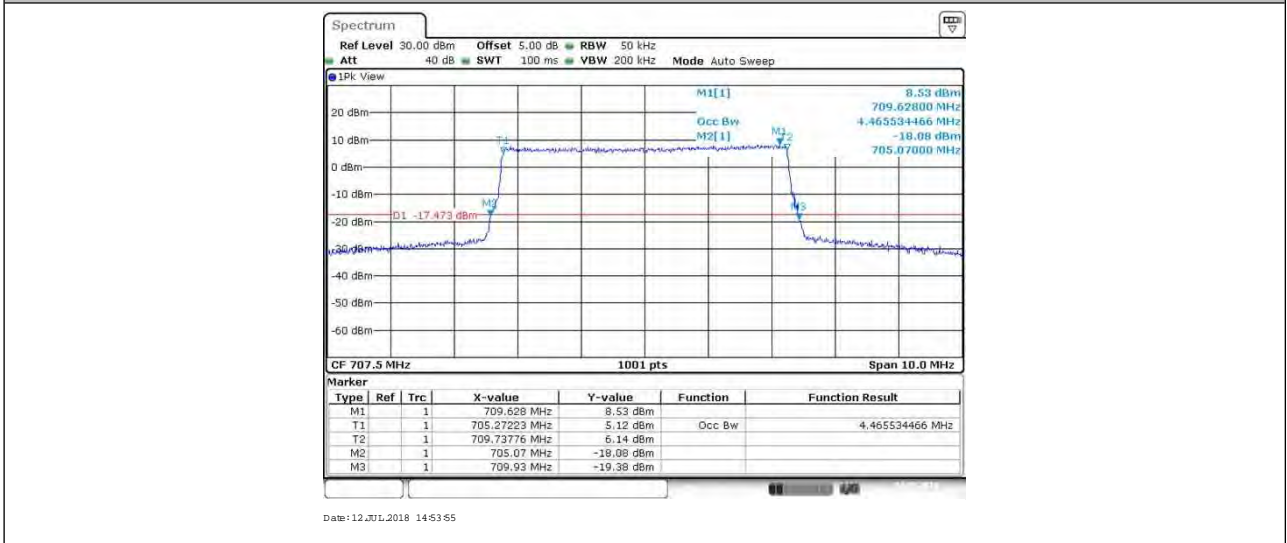
**BAND12\_5MHz\_64QAM\_23155\_25RB#0**



**BAND12\_5MHz\_16QAM\_23035\_25RB#0**

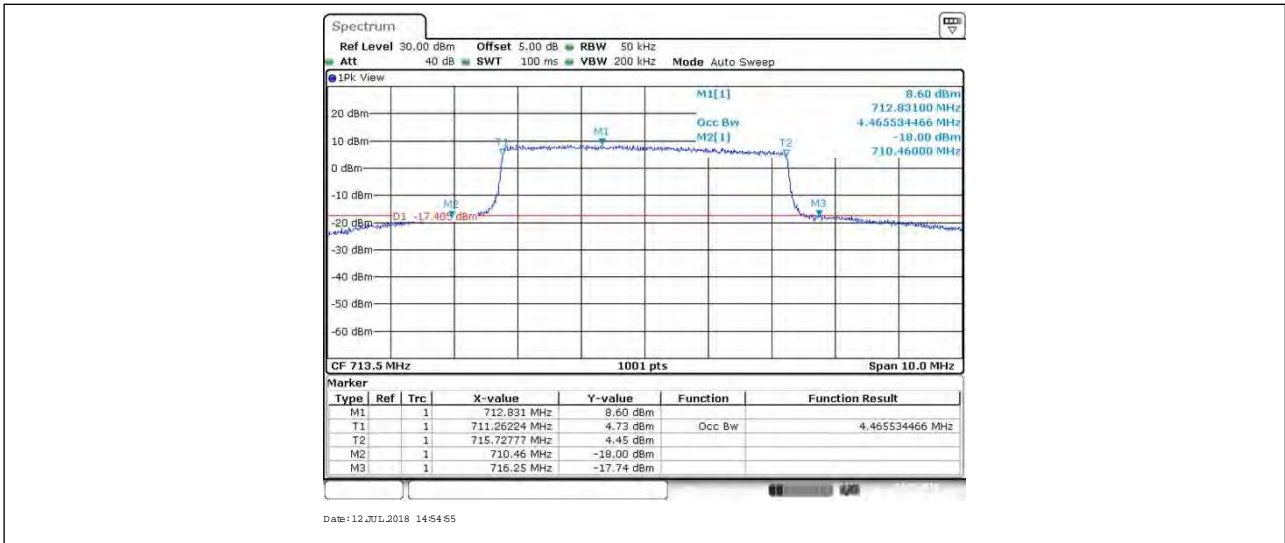


**BAND12\_5MHz\_16QAM\_23095\_25RB#0**

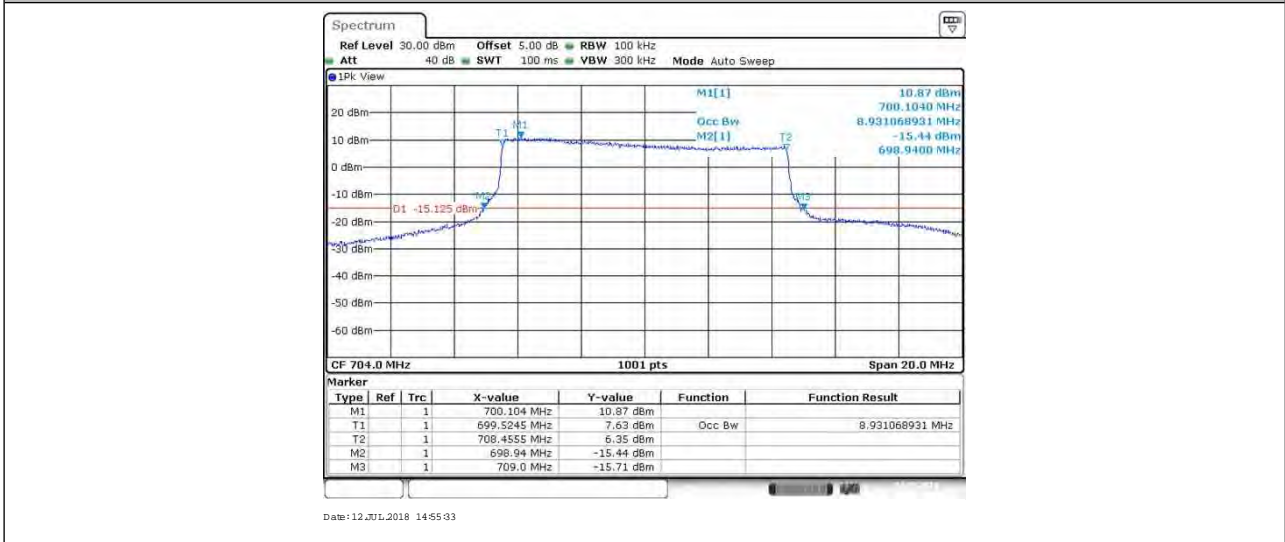


**BAND12\_5MHz\_16QAM\_23155\_25RB#0**

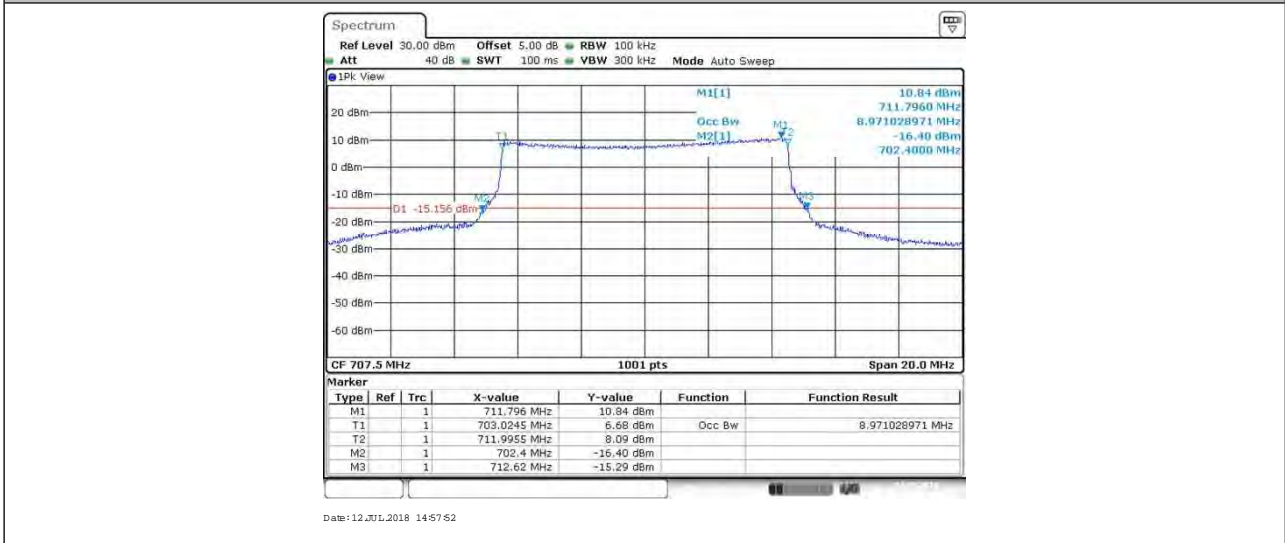




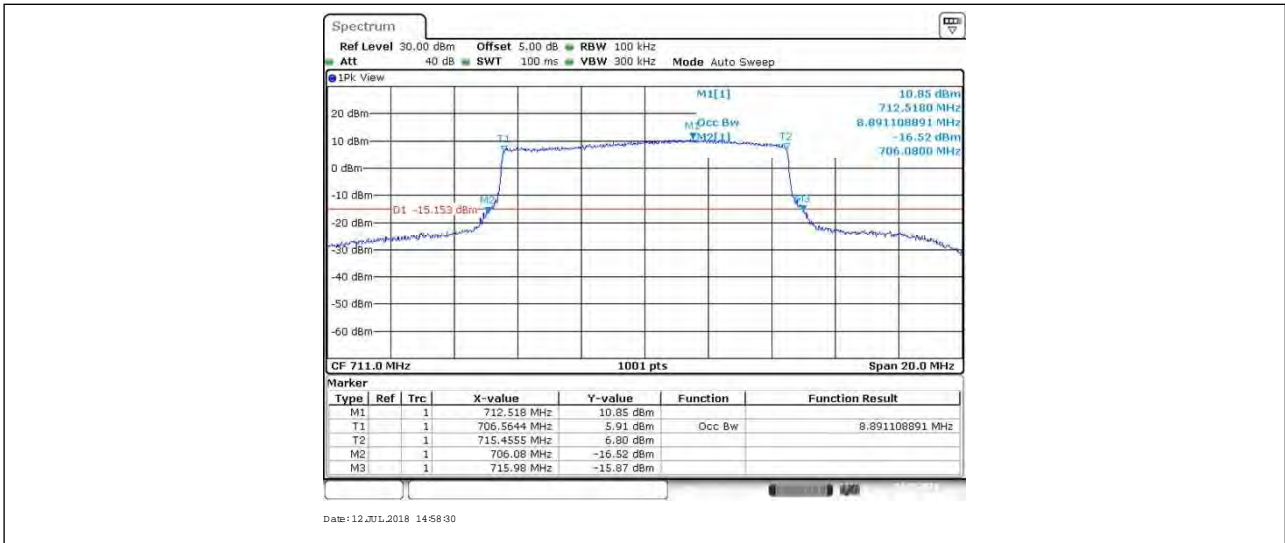
**BAND12\_10MHz\_QPSK\_23060\_50RB#0**



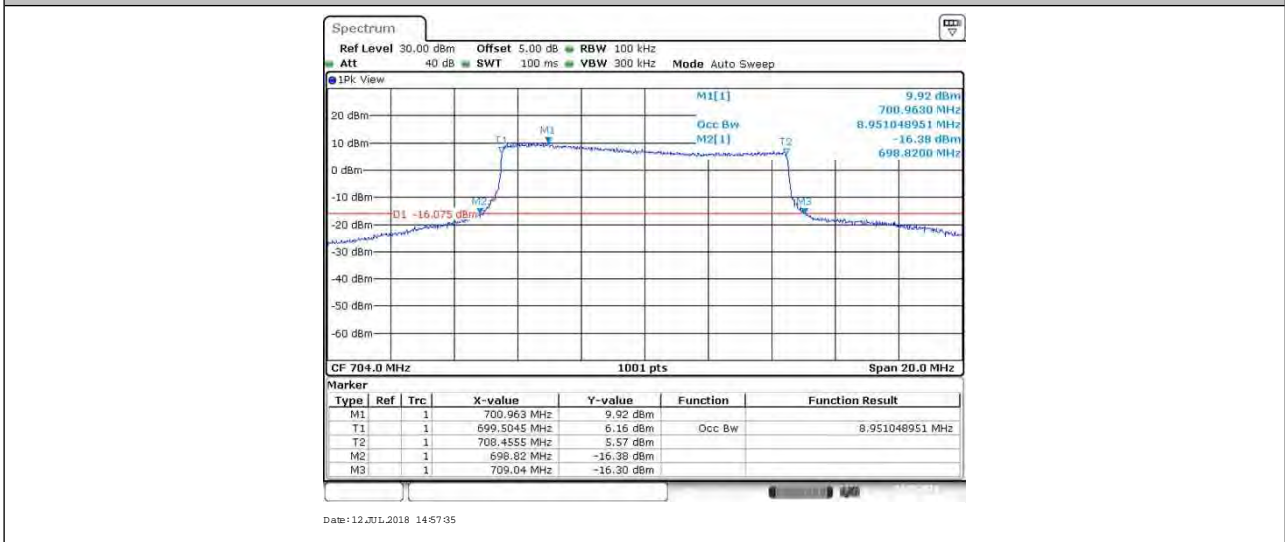
**BAND12\_10MHz\_QPSK\_23095\_50RB#0**



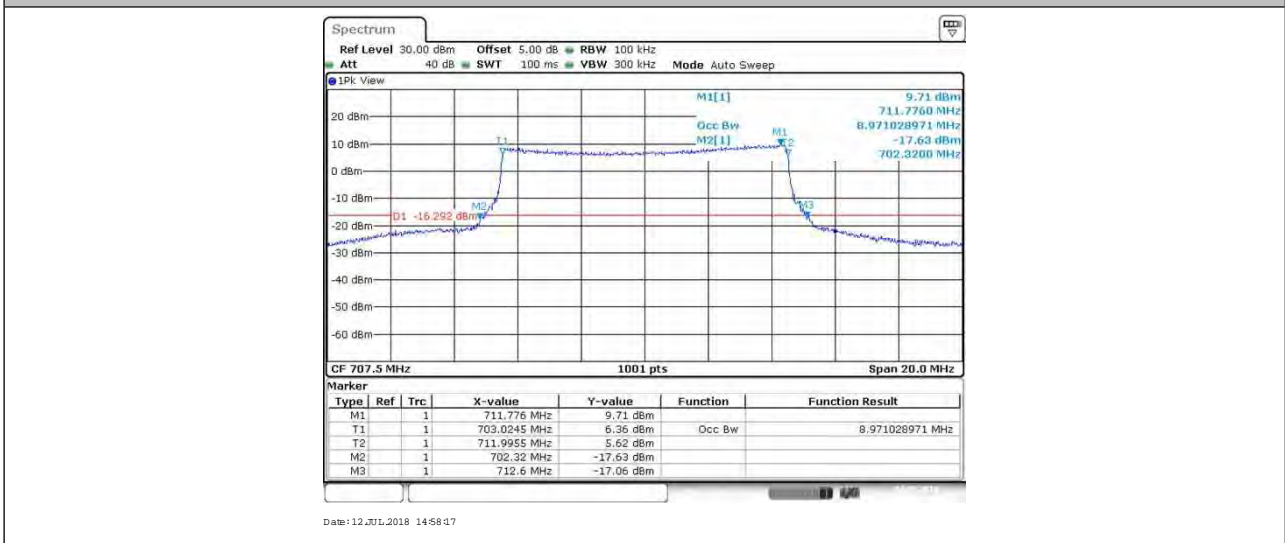
**BAND12\_10MHz\_QPSK\_23130\_50RB#0**



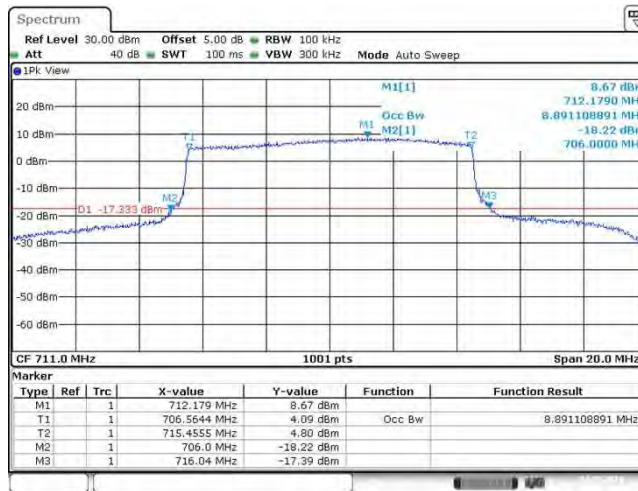
**BAND12\_10MHz\_64QAM\_23060\_50RB#0**



**BAND12\_10MHz\_64QAM\_23095\_50RB#0**

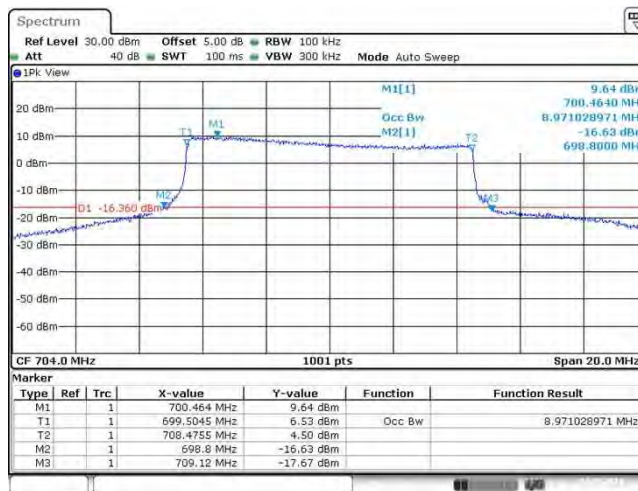


**BAND12\_10MHz\_64QAM\_23130\_50RB#0**



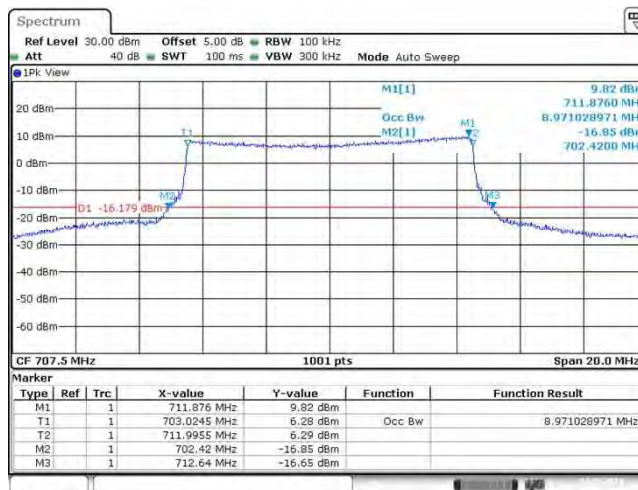
Date: 12.JUL.2018 14:58:55

**BAND12\_10MHz\_16QAM\_23060\_50RB#0**



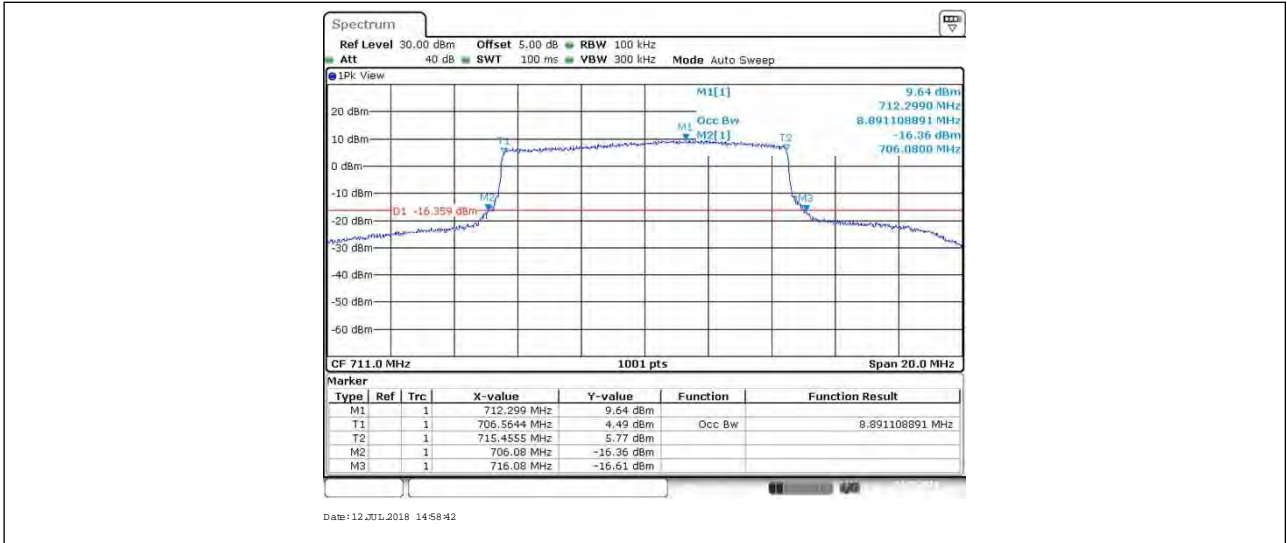
Date: 12.JUL.2018 14:55:46

**BAND12\_10MHz\_16QAM\_23095\_50RB#0**



Date: 12.JUL.2018 14:58:04

**BAND12\_10MHz\_16QAM\_23130\_50RB#0**

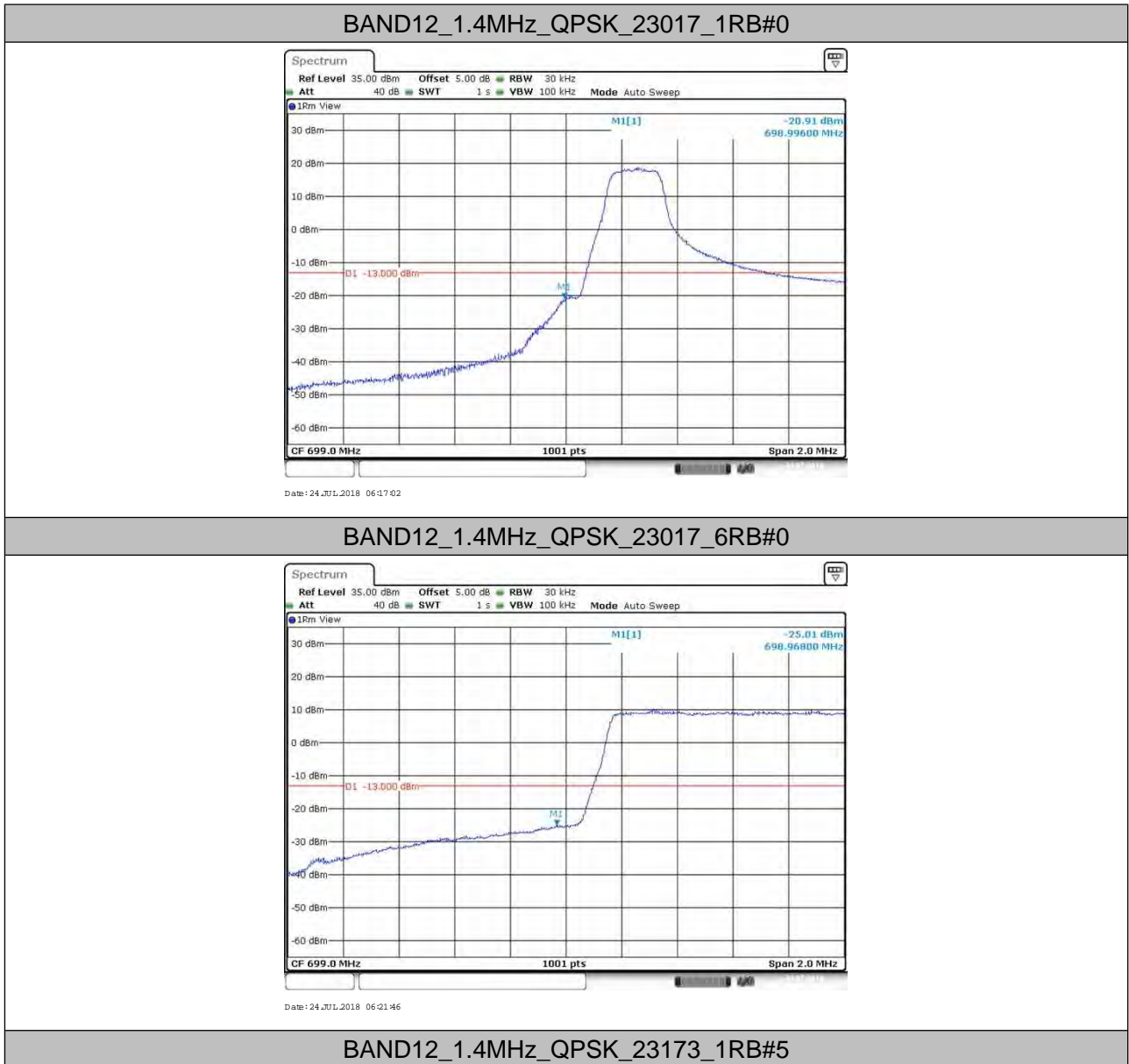


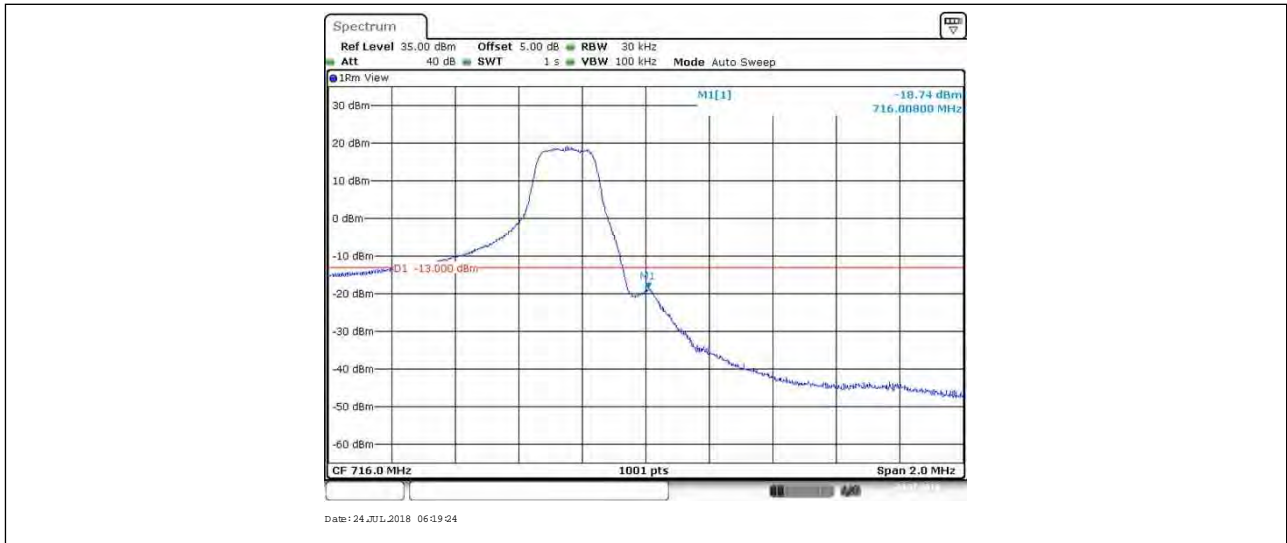




## 5. Band Edge Compliance

### 5.1. Test Plots





**BAND12\_1.4MHz\_QPSK\_23173\_6RB#0**



**BAND12\_1.4MHz\_64QAM\_23017\_1RB#0**



**BAND12\_1.4MHz\_64QAM\_23017\_6RB#0**

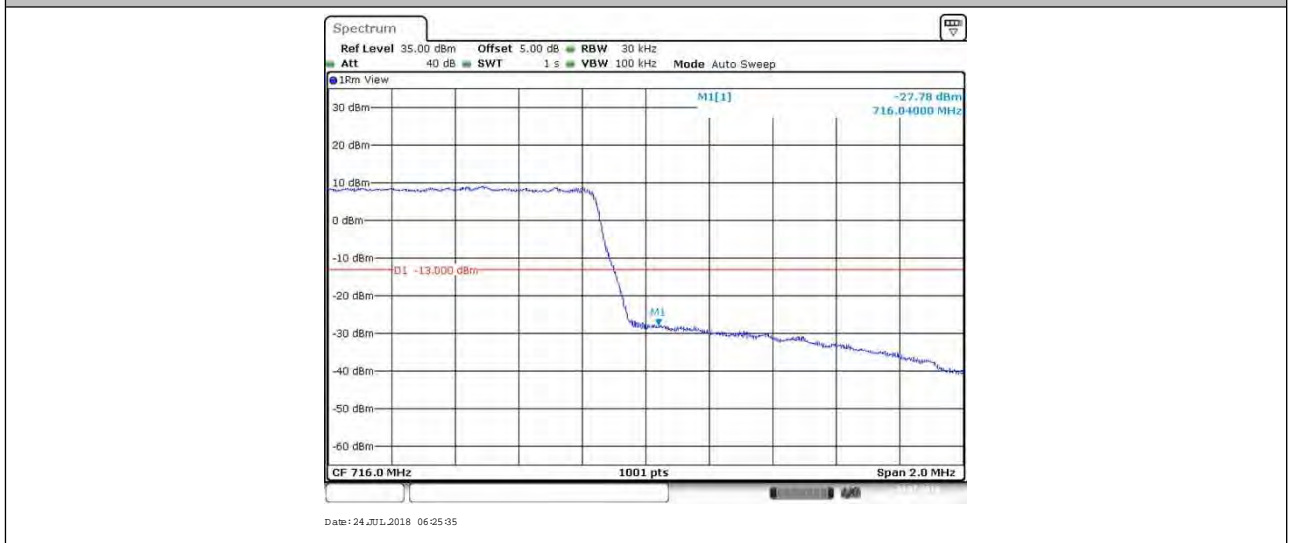




**BAND12\_1.4MHz\_64QAM\_23173\_1RB#5**



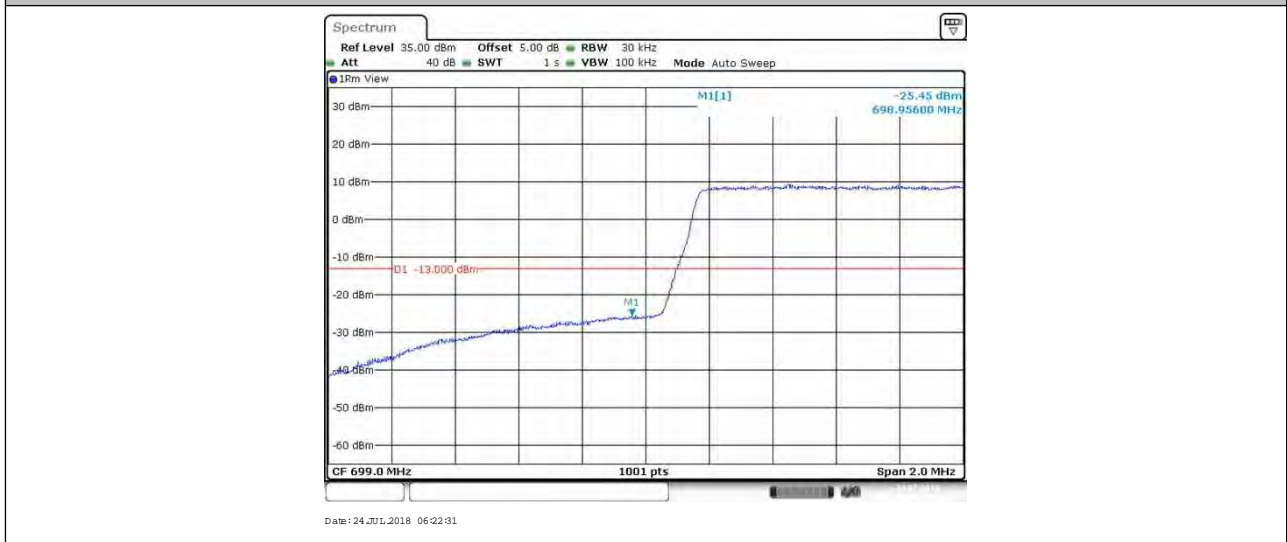
**BAND12\_1.4MHz\_64QAM\_23173\_6RB#0**



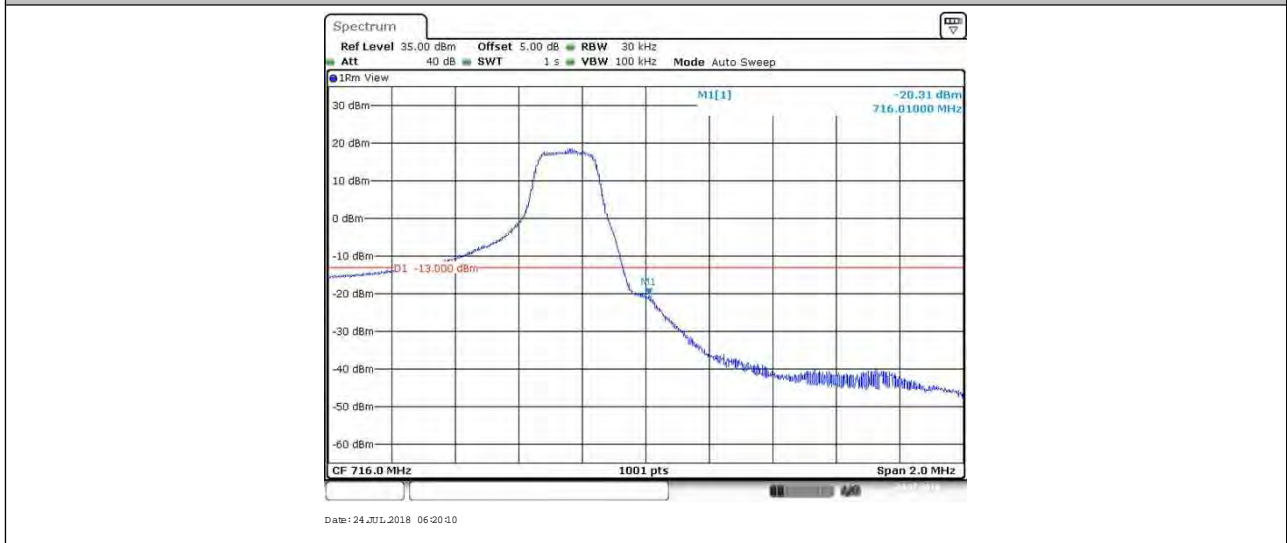
**BAND12\_1.4MHz\_16QAM\_23017\_1RB#0**



BAND12\_1.4MHz\_16QAM\_23017\_6RB#0



BAND12\_1.4MHz\_16QAM\_23173\_1RB#5



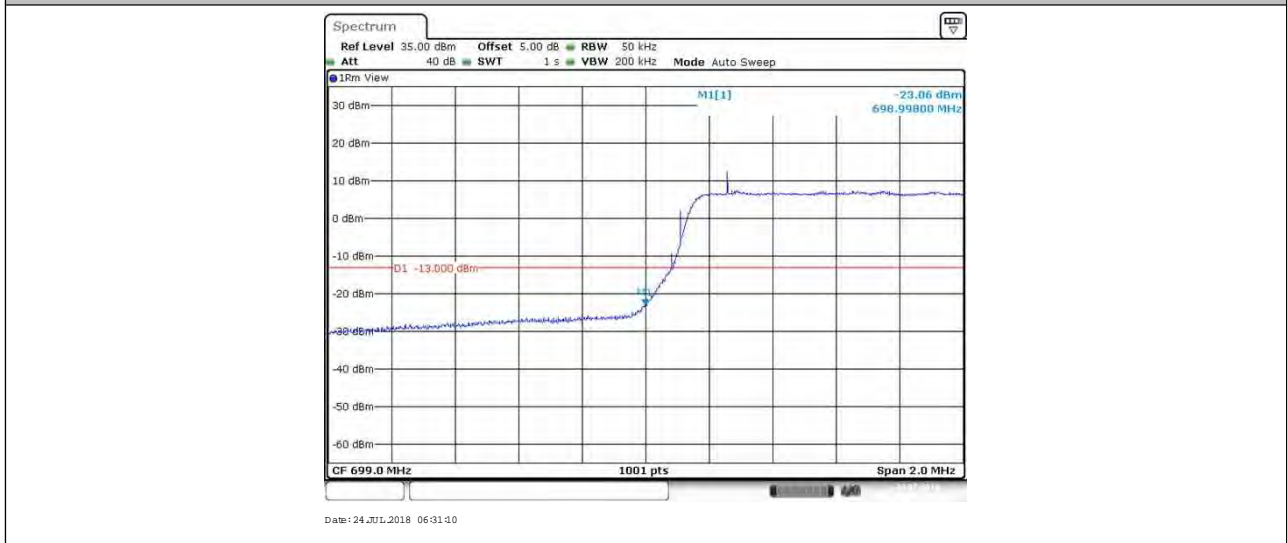
BAND12\_1.4MHz\_16QAM\_23173\_6RB#0



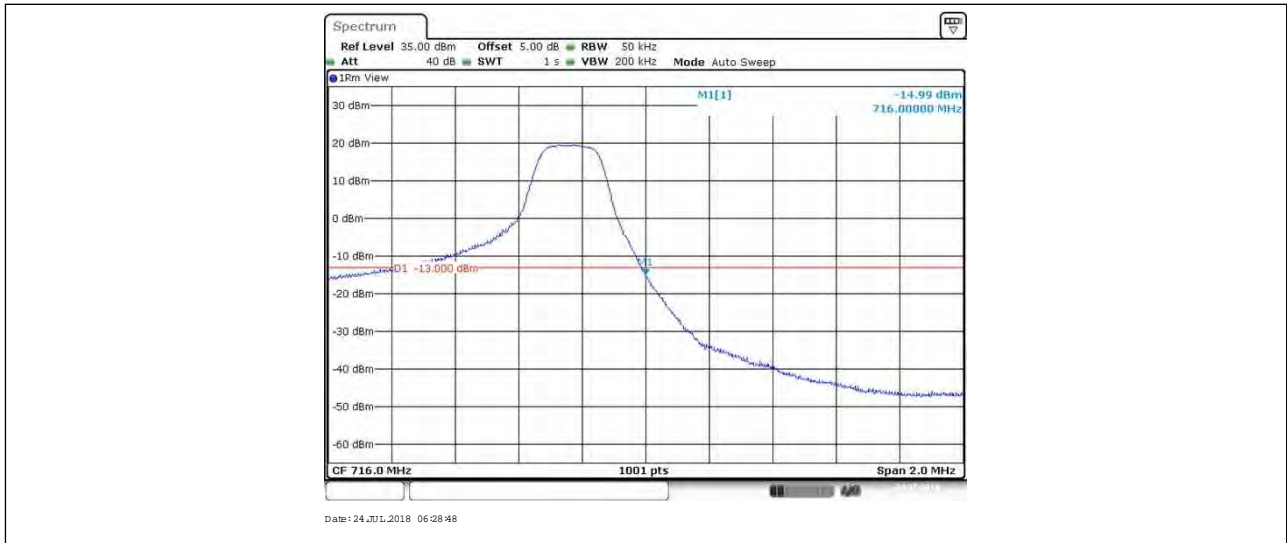
BAND12\_3MHz\_QPSK\_23025\_1RB#0



BAND12\_3MHz\_QPSK\_23025\_15RB#0



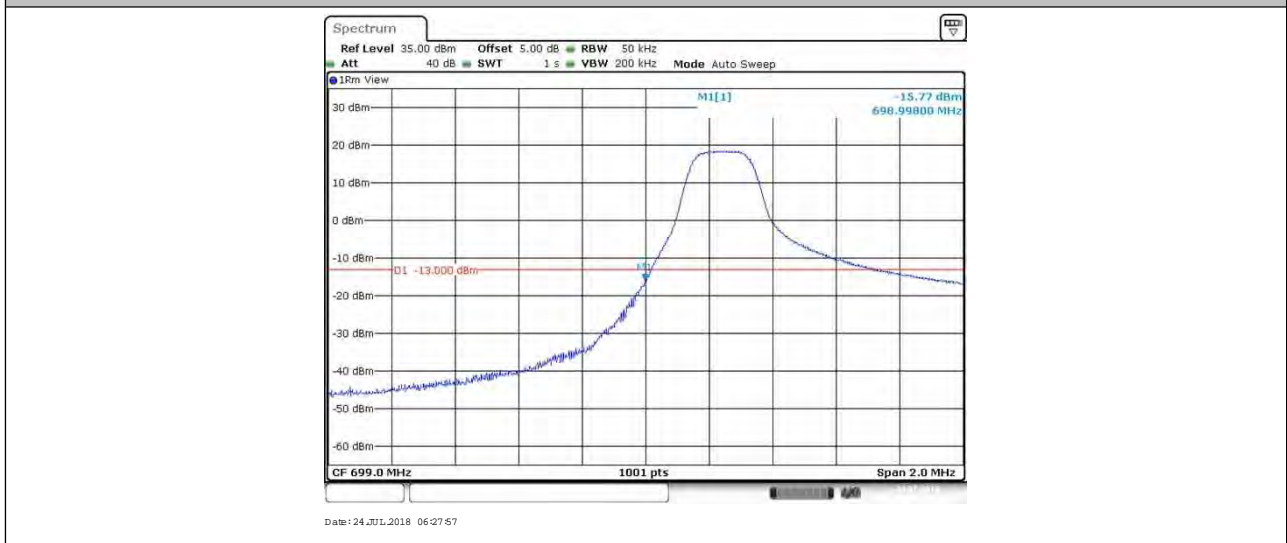
BAND12\_3MHz\_QPSK\_23165\_1RB#14



BAND12\_3MHz\_QPSK\_23165\_15RB#0



BAND12\_3MHz\_64QAM\_23025\_1RB#0



BAND12\_3MHz\_64QAM\_23025\_15RB#0





BAND12\_3MHz\_64QAM\_23165\_1RB#14

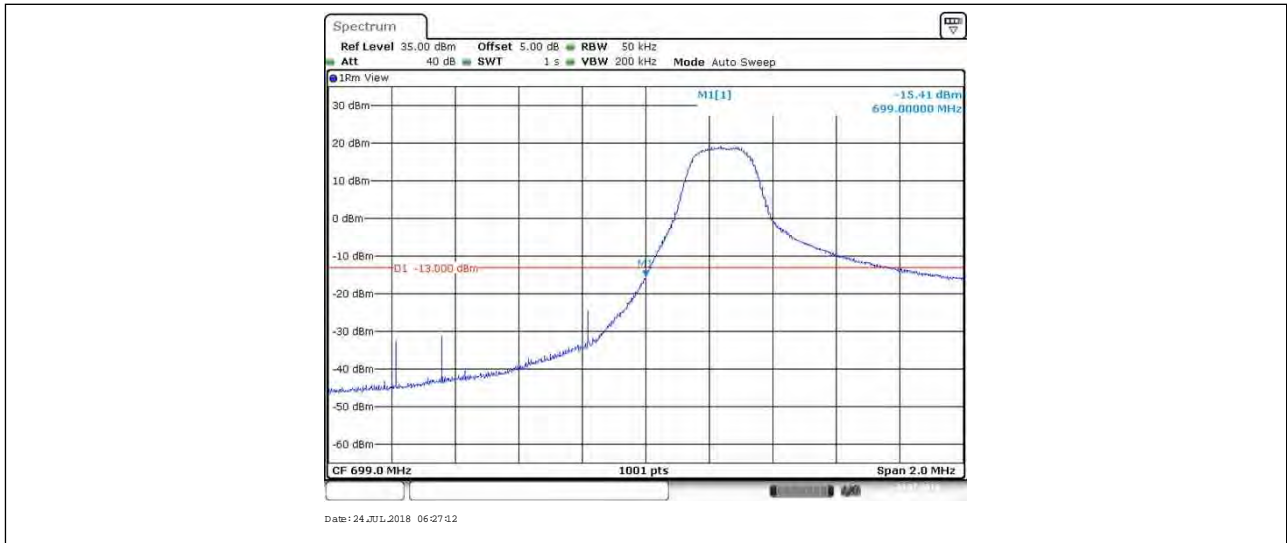


BAND12\_3MHz\_64QAM\_23165\_15RB#0

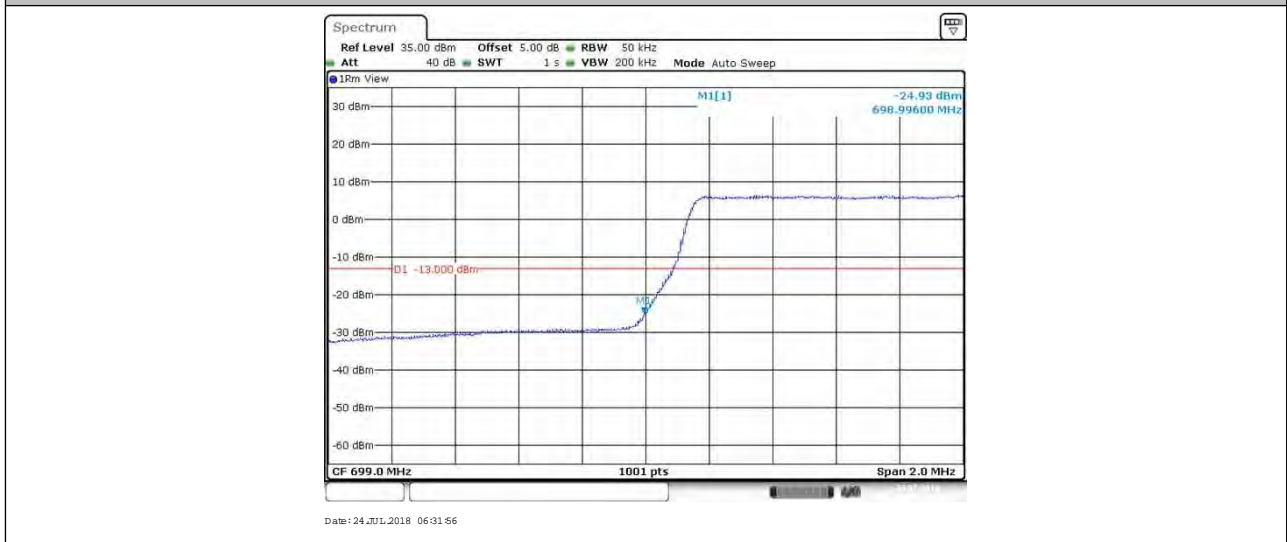


BAND12\_3MHz\_16QAM\_23025\_1RB#0

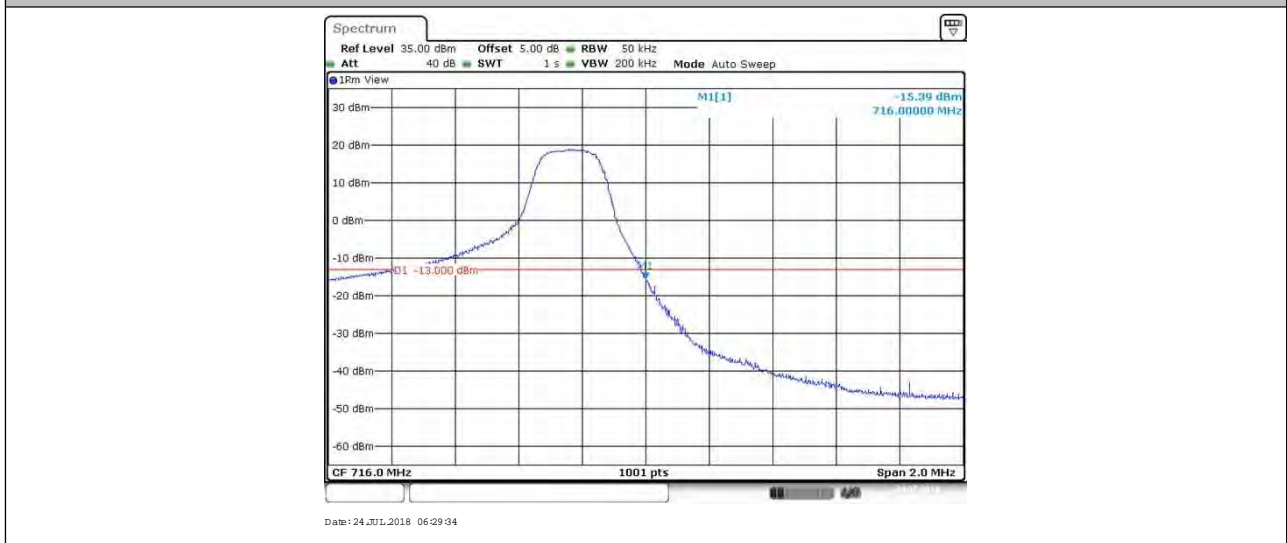




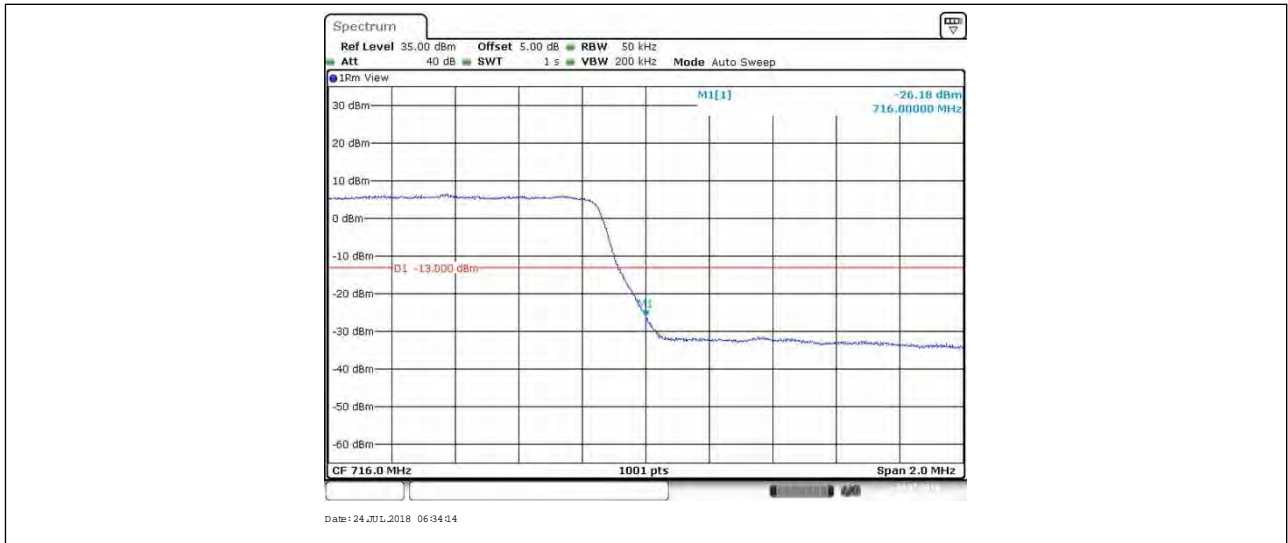
BAND12\_3MHz\_16QAM\_23025\_15RB#0



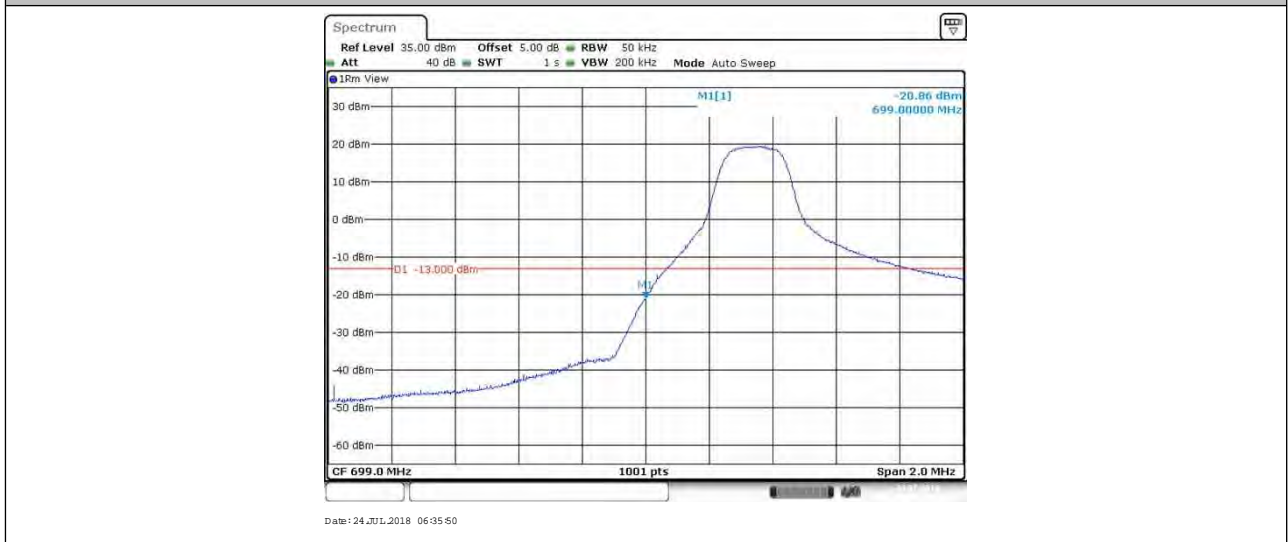
BAND12\_3MHz\_16QAM\_23165\_1RB#14



BAND12\_3MHz\_16QAM\_23165\_15RB#0



BAND12\_5MHz\_QPSK\_23035\_1RB#0



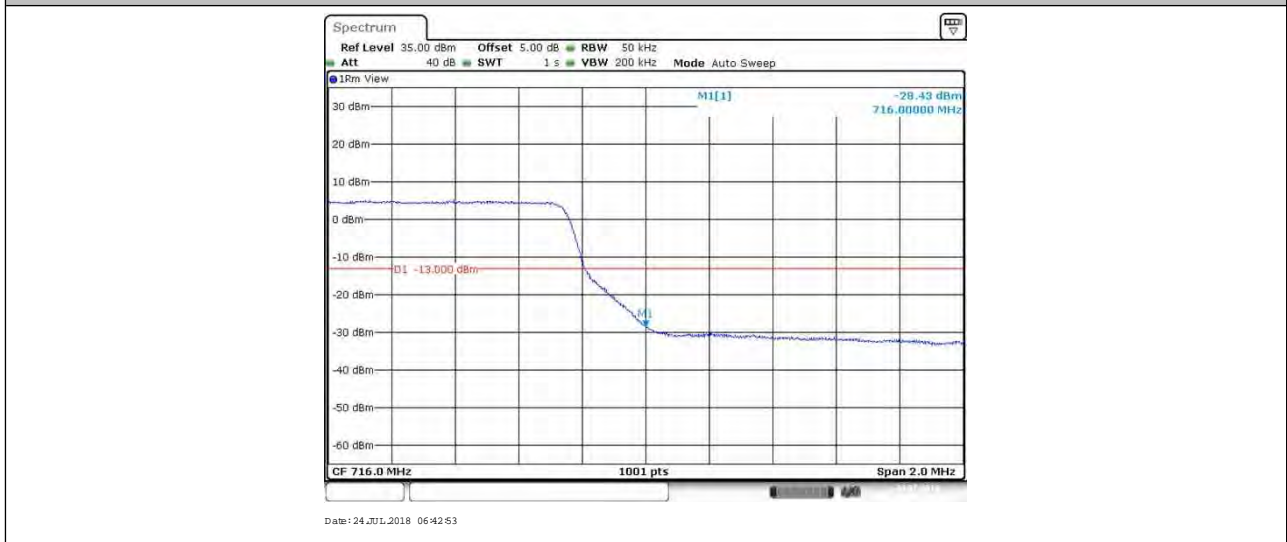
BAND12\_5MHz\_QPSK\_23035\_25RB#0



BAND12\_5MHz\_QPSK\_23155\_1RB#24



**BAND12\_5MHz\_QPSK\_23155\_25RB#0**



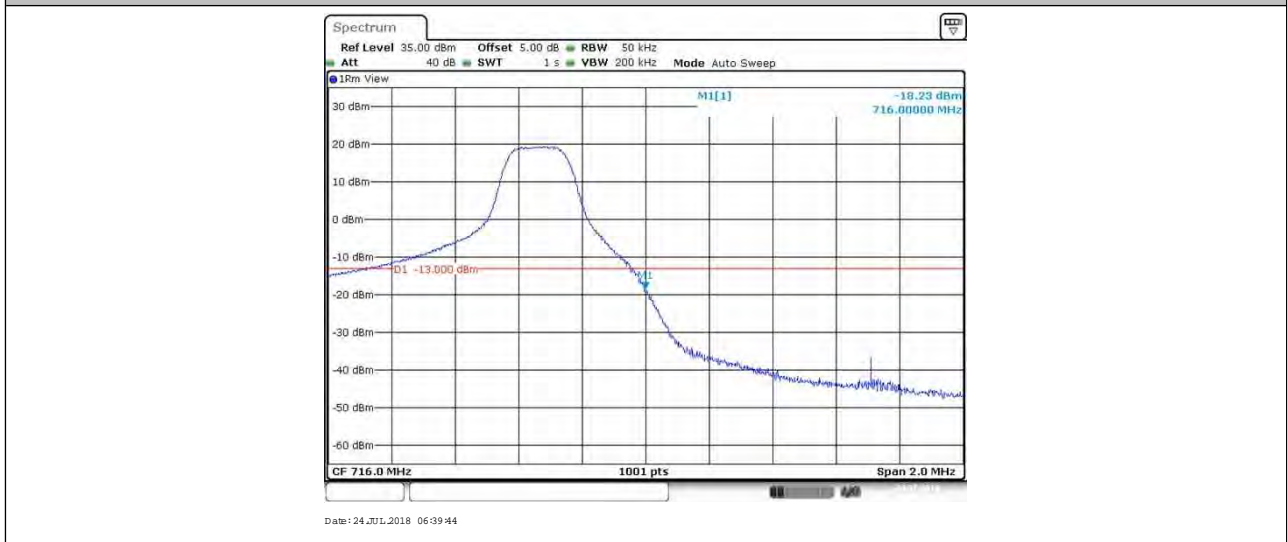
**BAND12\_5MHz\_64QAM\_23035\_1RB#0**



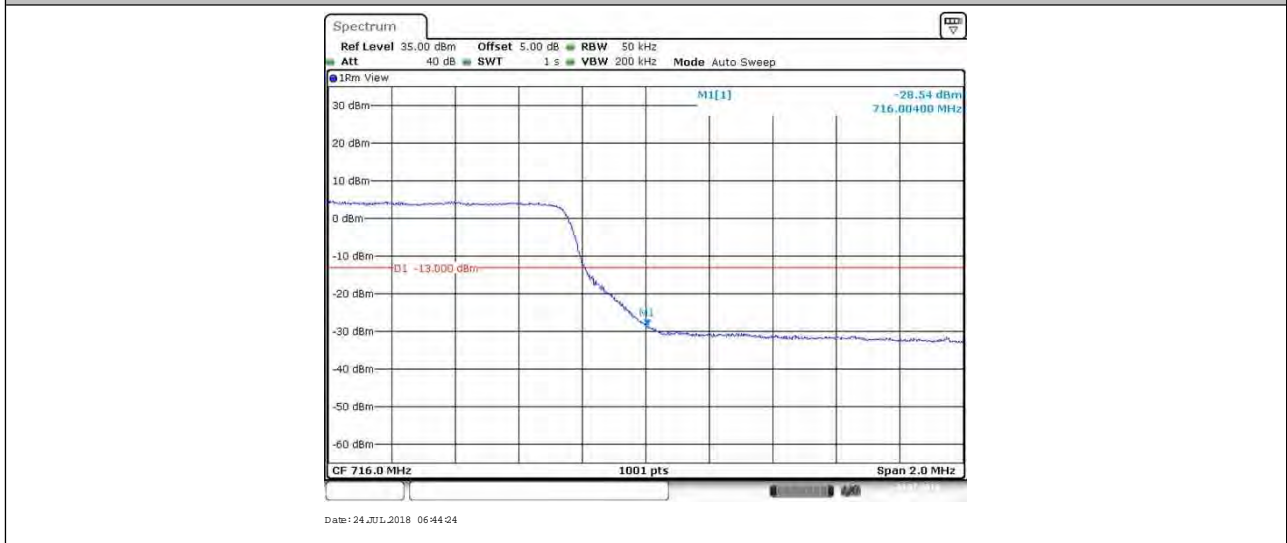
**BAND12\_5MHz\_64QAM\_23035\_25RB#0**



**BAND12\_5MHz\_64QAM\_23155\_1RB#24**

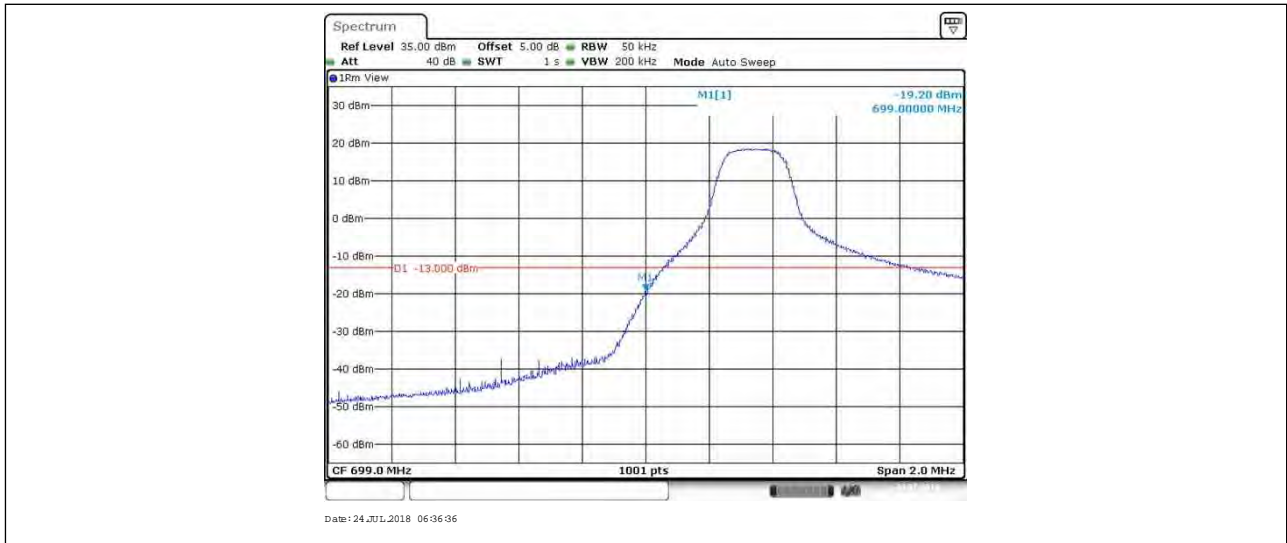


**BAND12\_5MHz\_64QAM\_23155\_25RB#0**



**BAND12\_5MHz\_16QAM\_23035\_1RB#0**

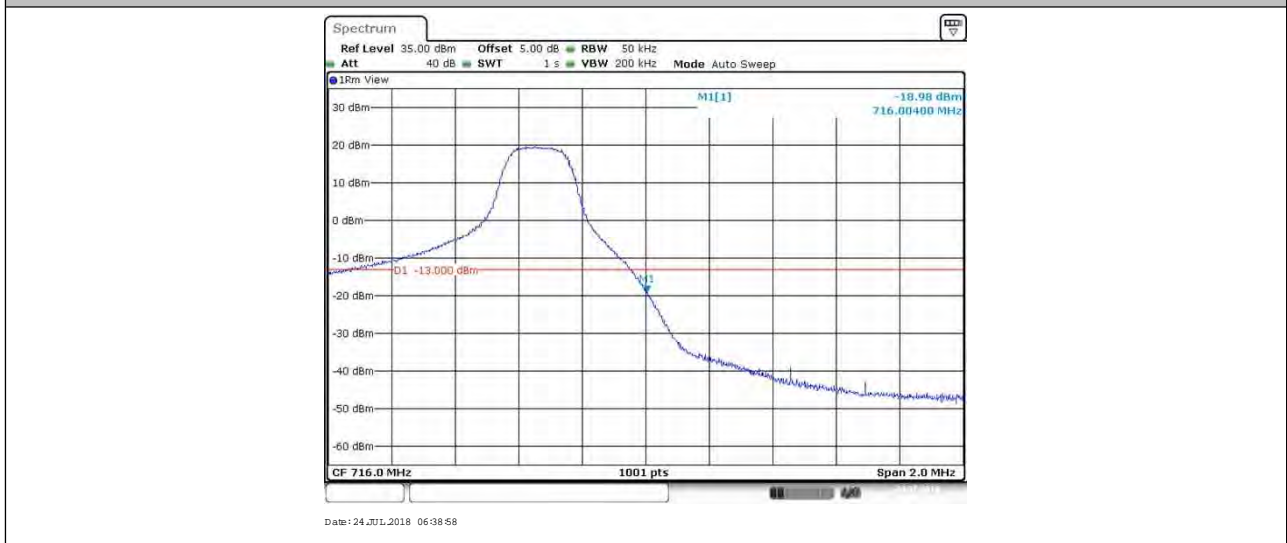




BAND12\_5MHz\_16QAM\_23035\_25RB#0



BAND12\_5MHz\_16QAM\_23155\_1RB#24



BAND12\_5MHz\_16QAM\_23155\_25RB#0





BAND12\_10MHz\_QPSK\_23060\_1RB#0



BAND12\_10MHz\_QPSK\_23060\_50RB#0



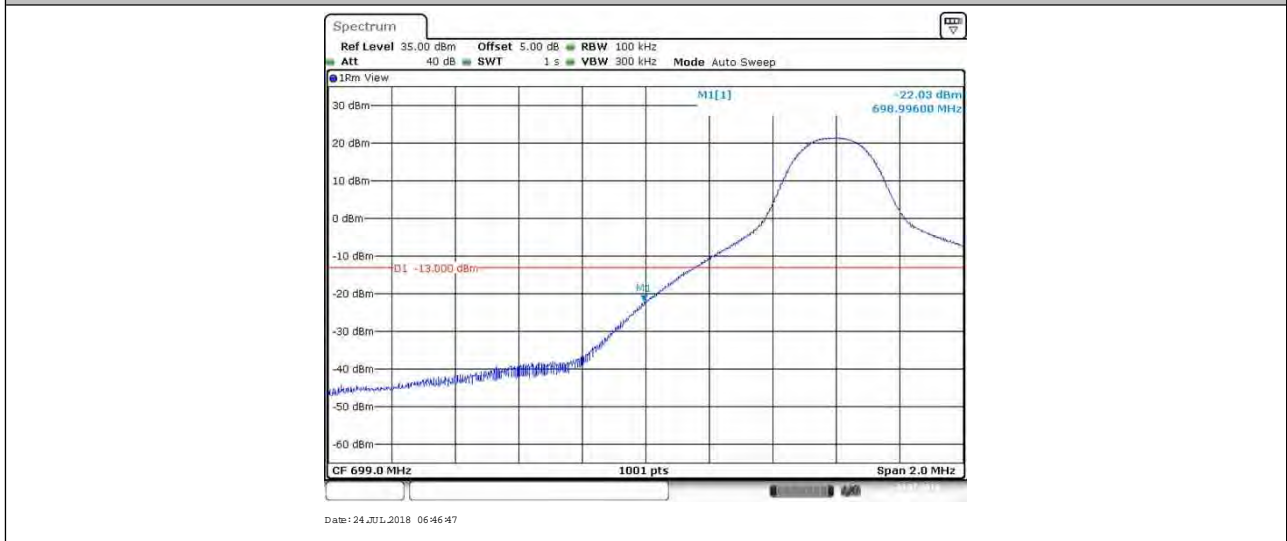
BAND12\_10MHz\_QPSK\_23130\_1RB#49



BAND12\_10MHz\_QPSK\_23130\_50RB#0



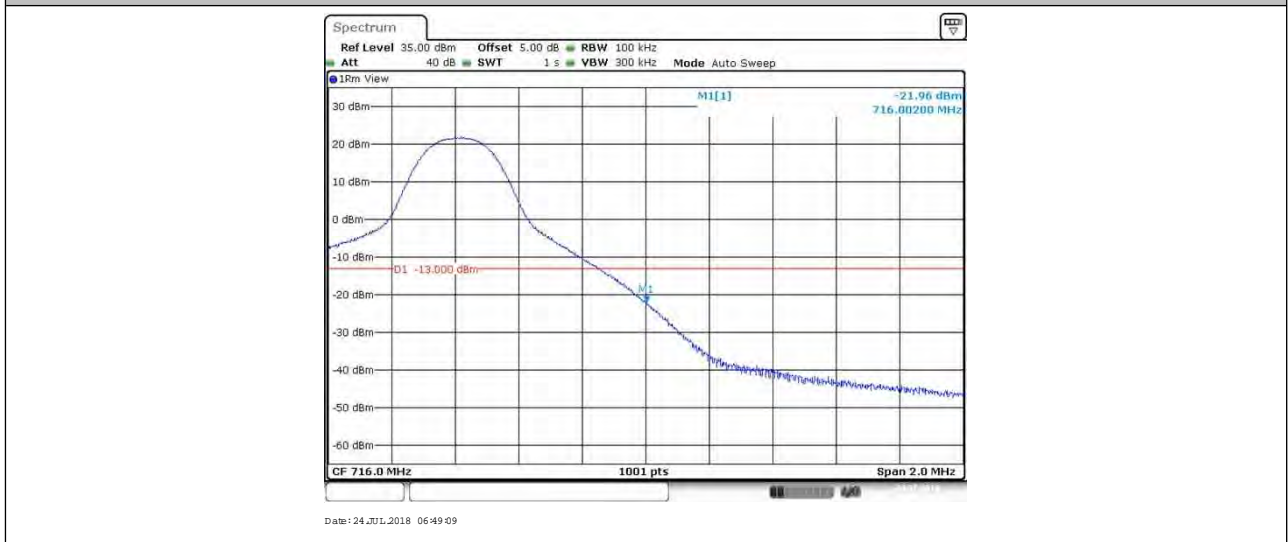
BAND12\_10MHz\_64QAM\_23060\_1RB#0



BAND12\_10MHz\_64QAM\_23060\_50RB#0



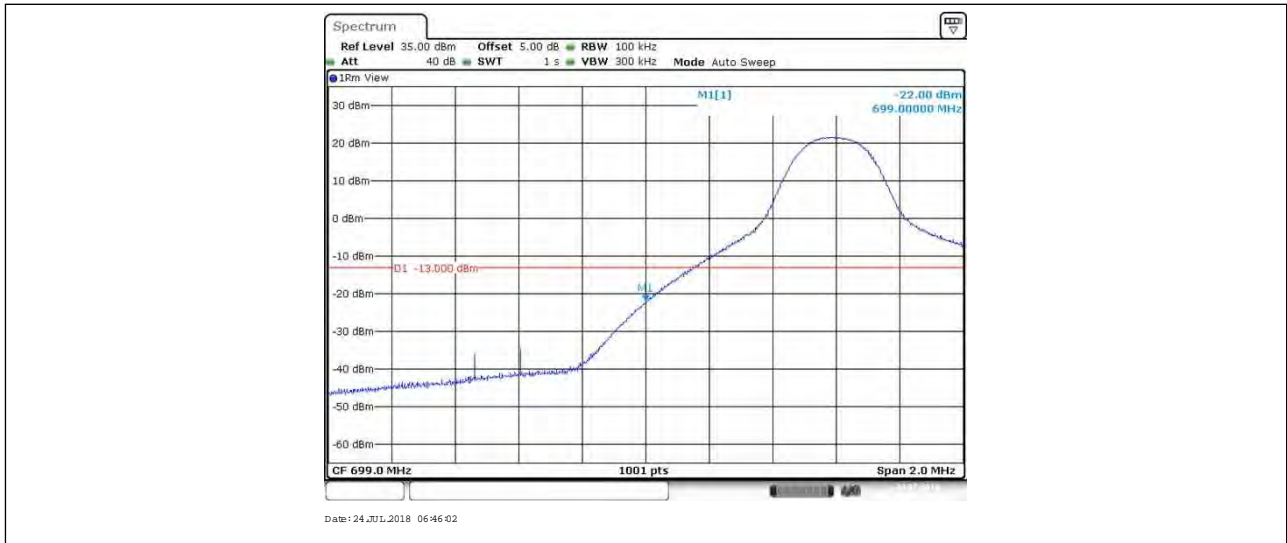
BAND12\_10MHz\_64QAM\_23130\_1RB#49



BAND12\_10MHz\_64QAM\_23130\_50RB#0



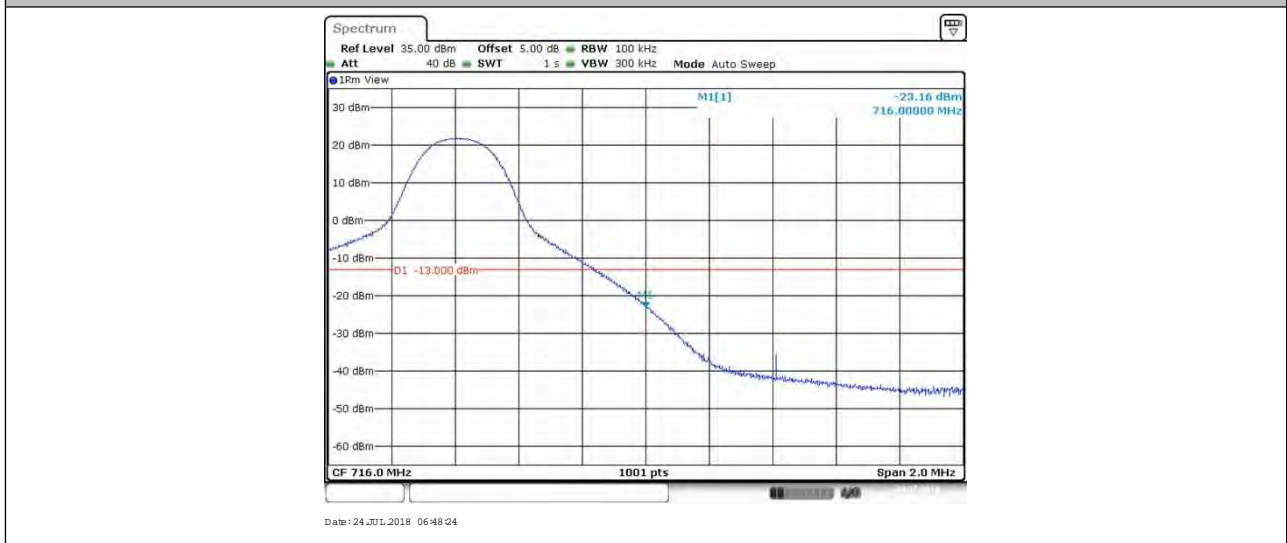
BAND12\_10MHz\_16QAM\_23060\_1RB#0



BAND12\_10MHz\_16QAM\_23060\_50RB#0



BAND12\_10MHz\_16QAM\_23130\_1RB#49



BAND12\_10MHz\_16QAM\_23130\_50RB#0





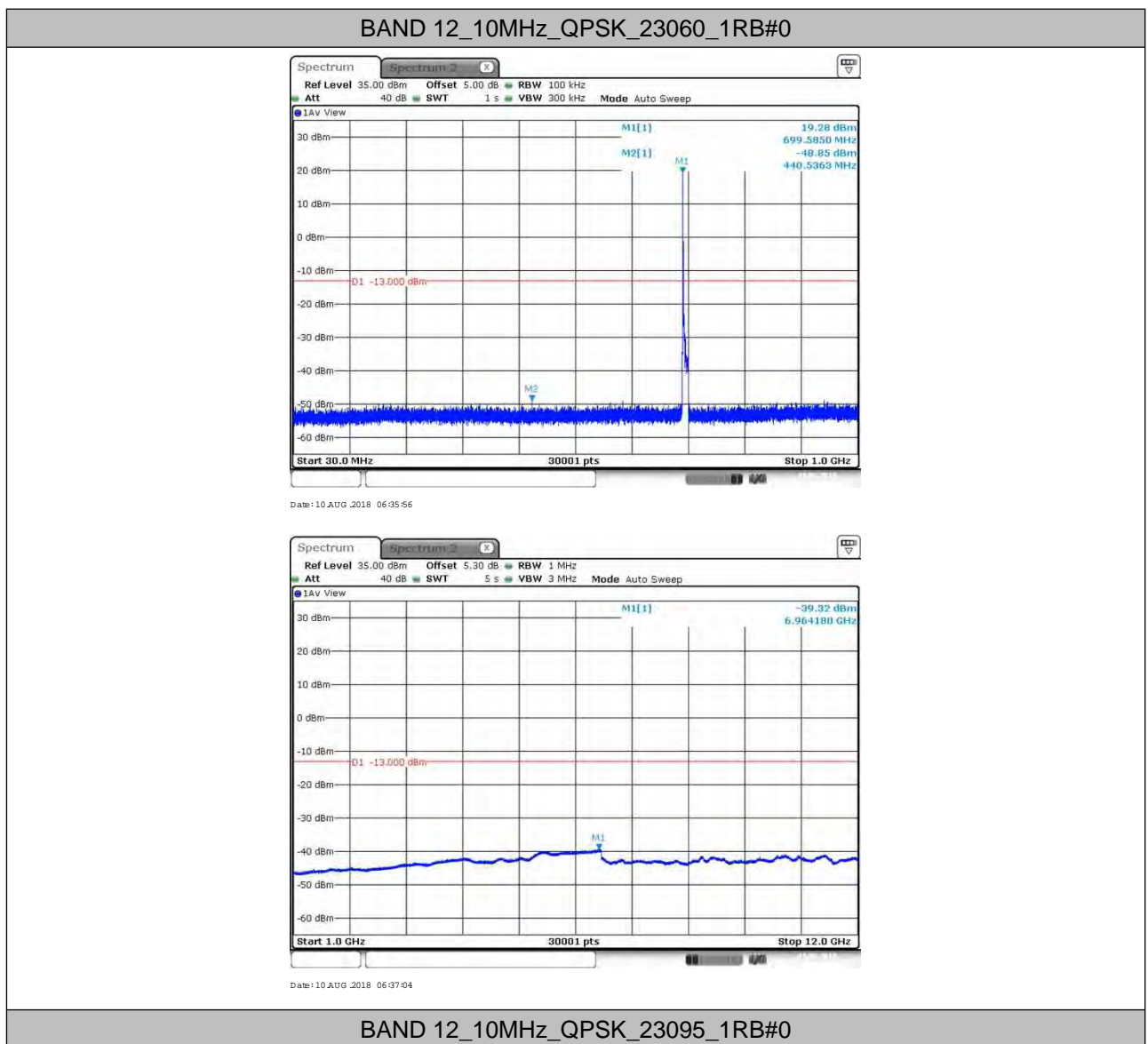


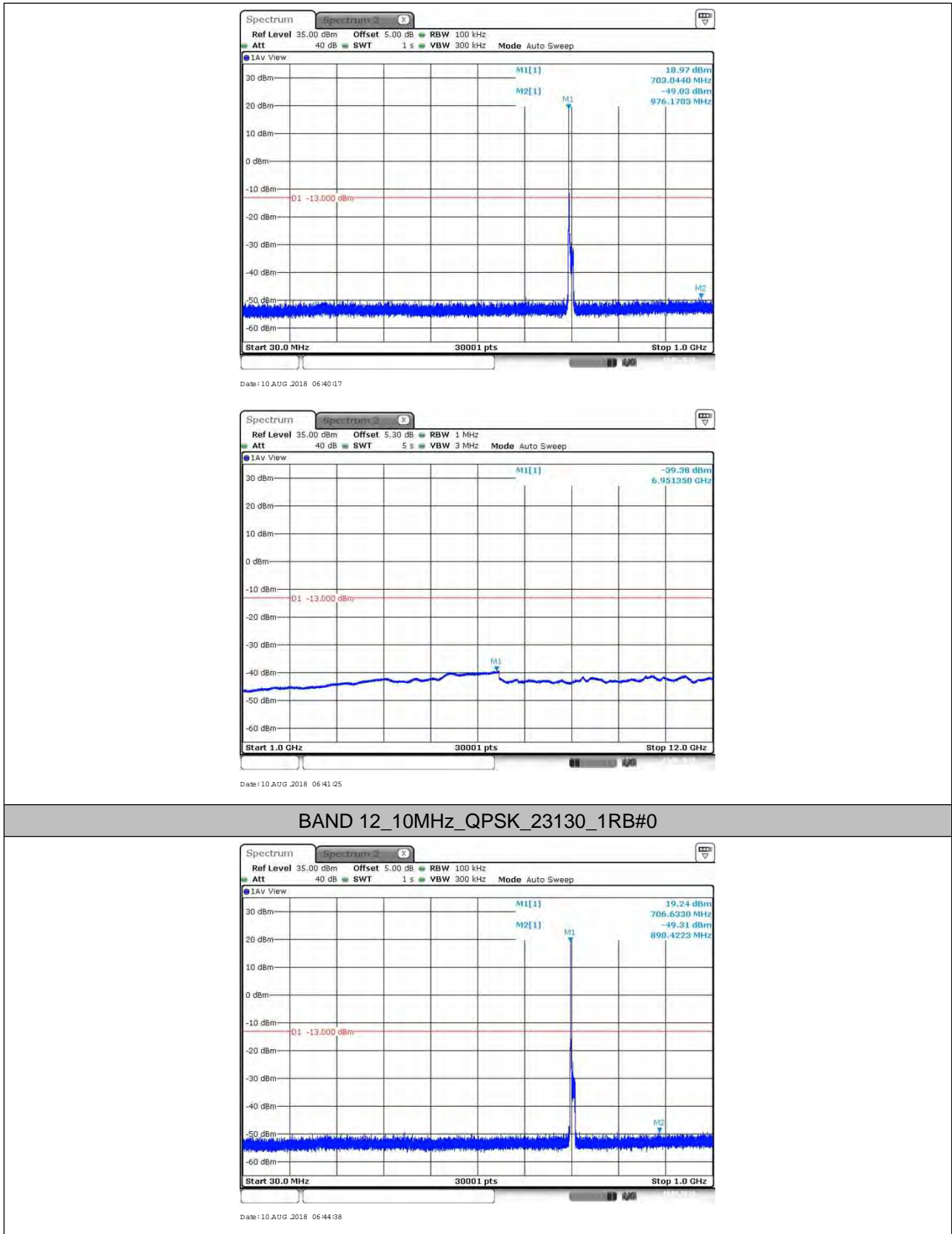
## 6. Spurious Emission at Antenna Terminal

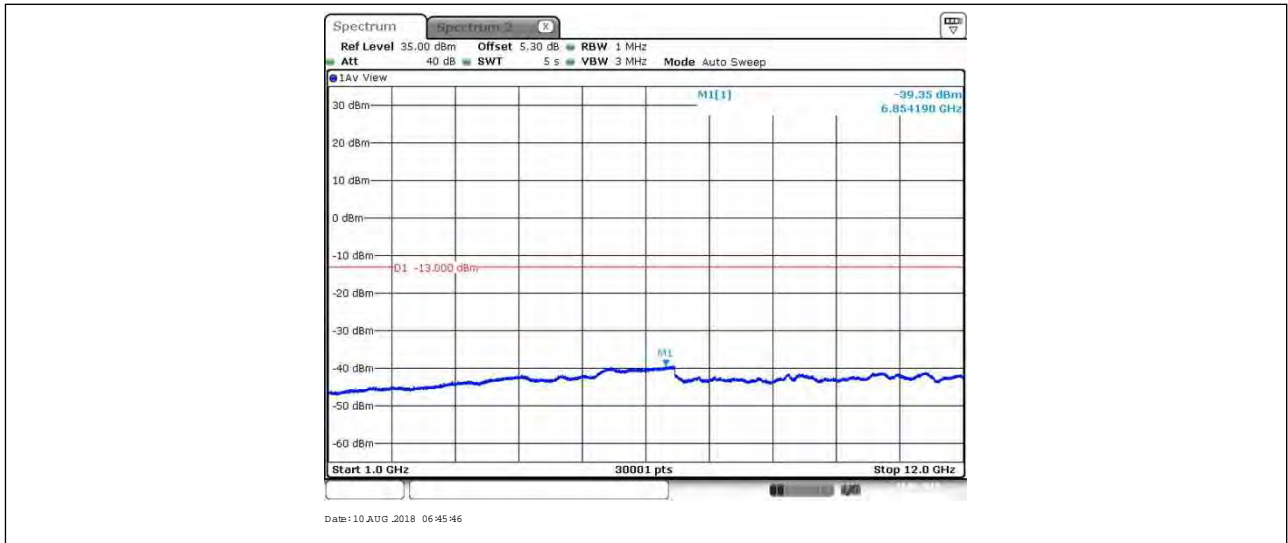
NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " 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.

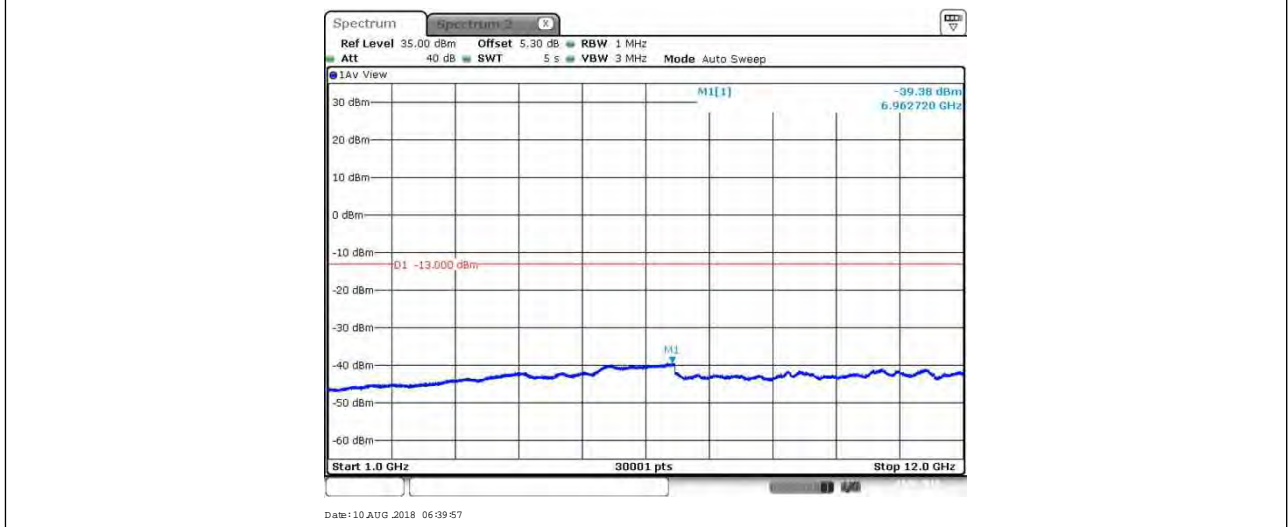
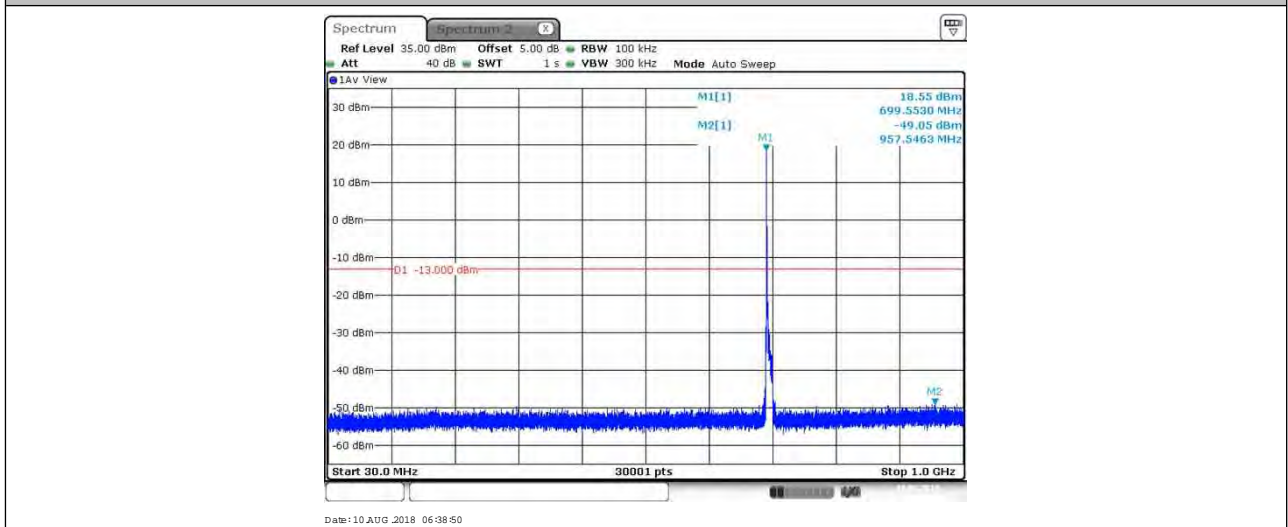
### 6.1. Test Plots





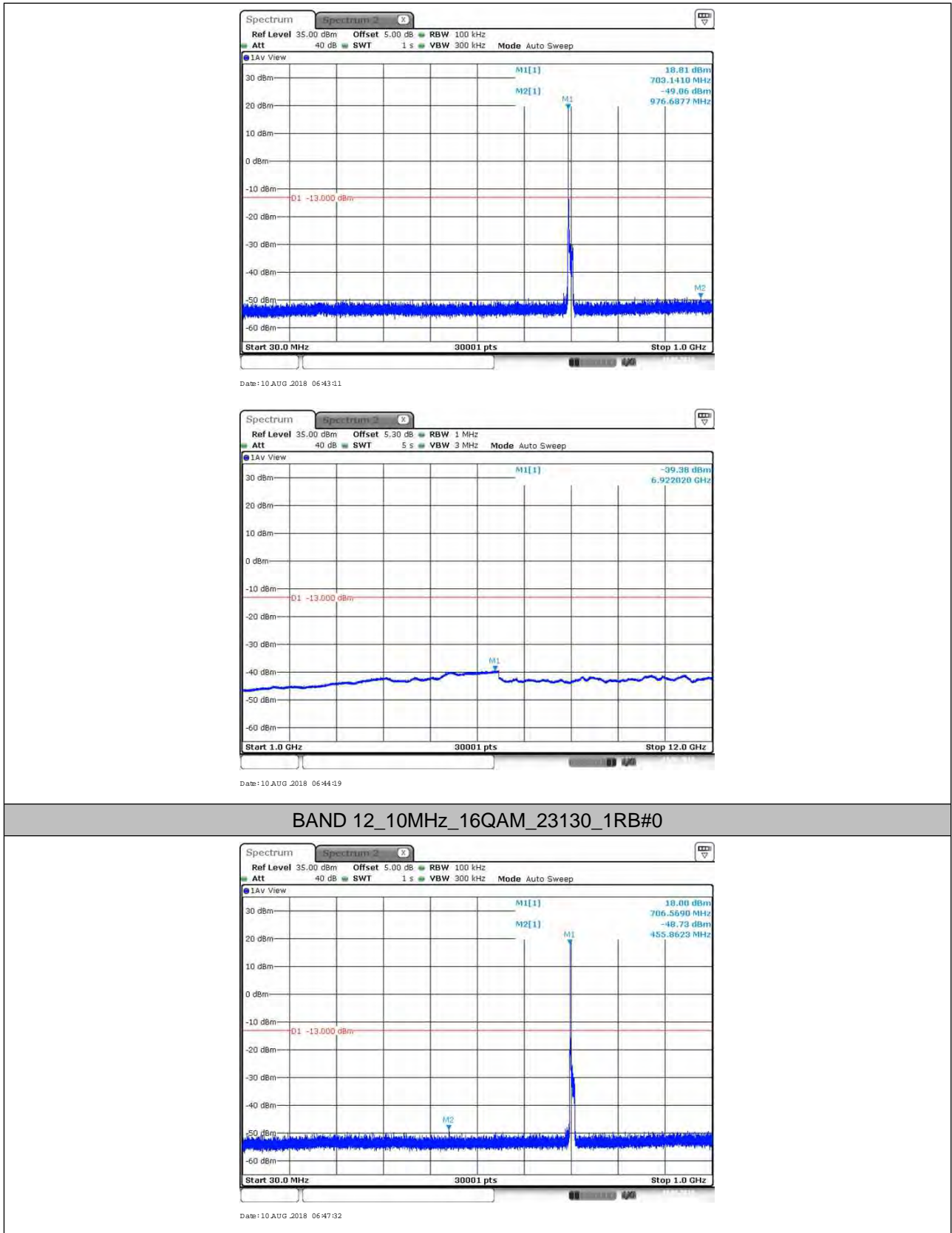


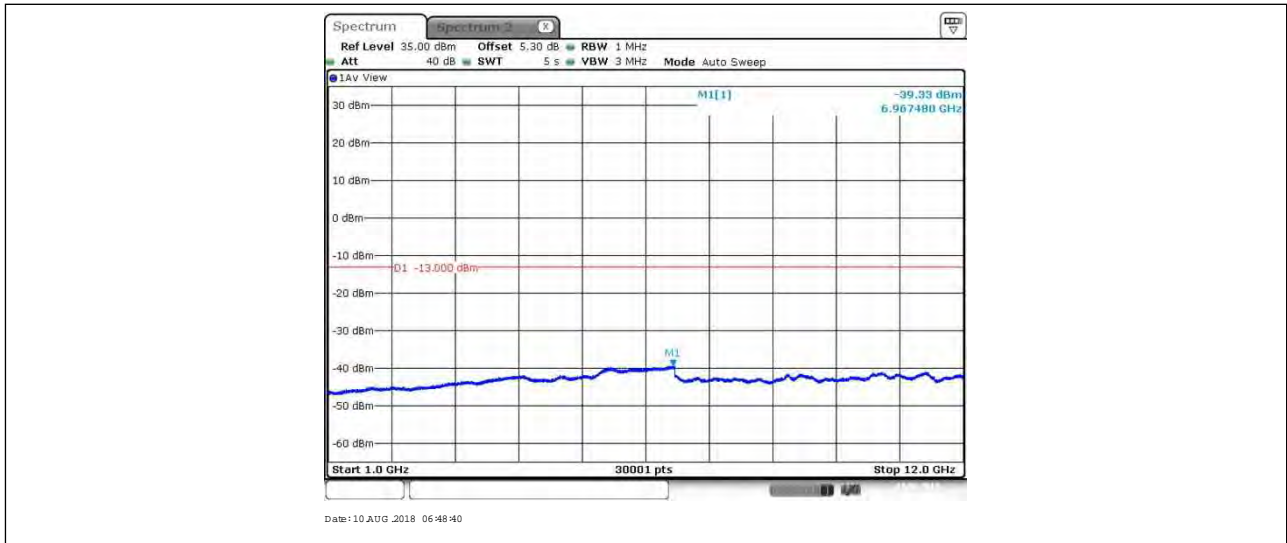
BAND 12\_10MHz\_16QAM\_23060\_1RB#0



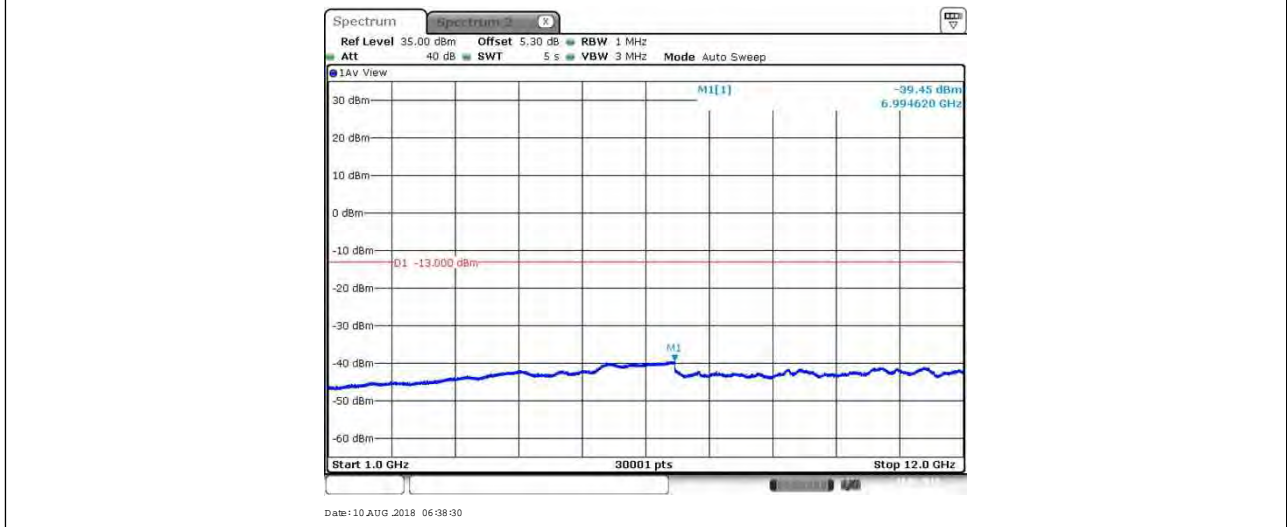
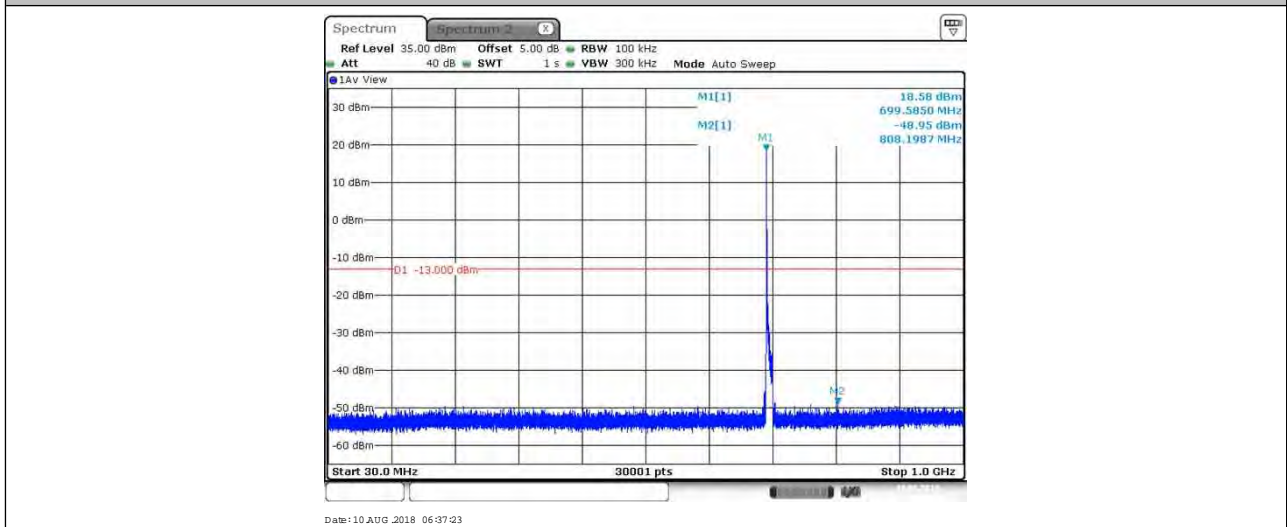
BAND 12\_10MHz\_16QAM\_23095\_1RB#0







BAND 12\_10MHz\_64QAM\_23060\_1RB#0



BAND 12\_10MHz\_64QAM\_23095\_1RB#0

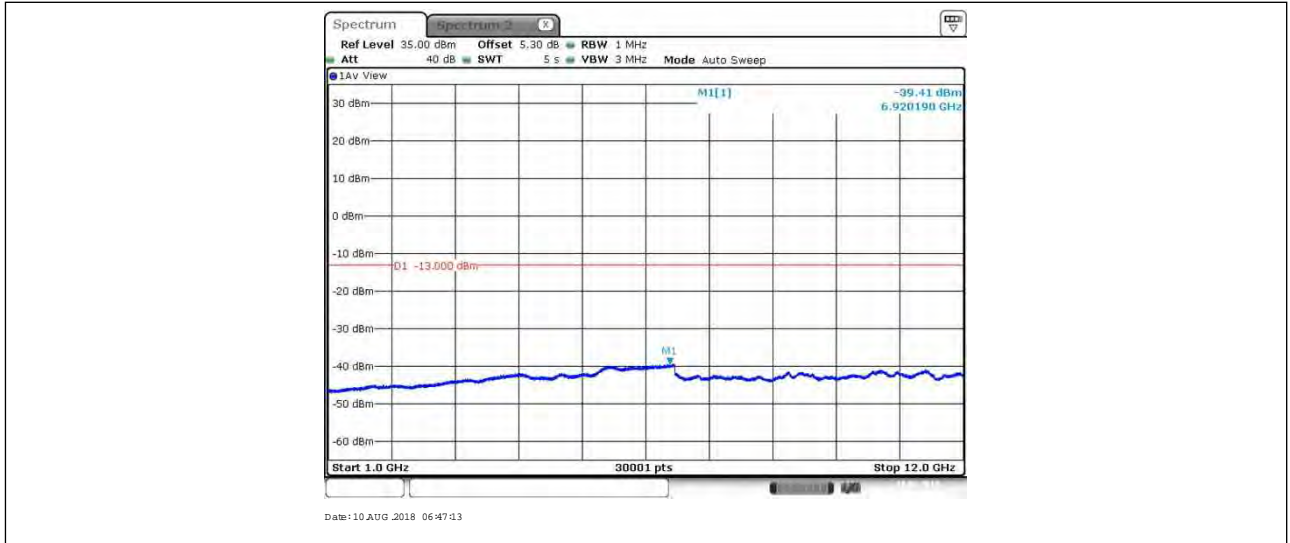




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## 7. Field Strength of Spurious Radiation

### 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

BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict	
					Voltage [Vdc]	Temperature (°C)					
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	
			64QAM	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

BAND	Bandwidth	Modulation	Channel	RB Configure	Temperature		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
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	23130	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
				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	
			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	
			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	
			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