



Appendix B

E-UTRA BAND 41



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
BAND41	5MHz	QPSK	39675	1RB#0	25.71	29.71	33.00	PASS
BAND41	5MHz	QPSK	39675	1RB#12	25.73	29.73	33.00	PASS
BAND41	5MHz	QPSK	39675	1RB#24	25.77	29.77	33.00	PASS
BAND41	5MHz	QPSK	39675	12RB#0	24.88	28.88	33.00	PASS
BAND41	5MHz	QPSK	39675	12RB#6	24.88	28.88	33.00	PASS
BAND41	5MHz	QPSK	39675	12RB#13	24.89	28.89	33.00	PASS
BAND41	5MHz	QPSK	39675	25RB#0	24.87	28.87	33.00	PASS
BAND41	5MHz	QPSK	40620	1RB#0	25.78	29.78	33.00	PASS
BAND41	5MHz	QPSK	40620	1RB#12	25.71	29.71	33.00	PASS
BAND41	5MHz	QPSK	40620	1RB#24	25.74	29.74	33.00	PASS
BAND41	5MHz	QPSK	40620	12RB#0	24.87	28.87	33.00	PASS
BAND41	5MHz	QPSK	40620	12RB#6	24.87	28.87	33.00	PASS
BAND41	5MHz	QPSK	40620	12RB#13	24.85	28.85	33.00	PASS
BAND41	5MHz	QPSK	40620	25RB#0	24.84	28.84	33.00	PASS
BAND41	5MHz	QPSK	41565	1RB#0	25.78	29.78	33.00	PASS
BAND41	5MHz	QPSK	41565	1RB#12	25.77	29.77	33.00	PASS
BAND41	5MHz	QPSK	41565	1RB#24	25.69	29.69	33.00	PASS
BAND41	5MHz	QPSK	41565	12RB#0	24.90	28.90	33.00	PASS
BAND41	5MHz	QPSK	41565	12RB#6	24.89	28.89	33.00	PASS
BAND41	5MHz	QPSK	41565	12RB#13	24.88	28.88	33.00	PASS
BAND41	5MHz	QPSK	41565	25RB#0	24.87	28.87	33.00	PASS
BAND41	5MHz	16QAM	39675	1RB#0	24.88	28.88	33.00	PASS
BAND41	5MHz	16QAM	39675	1RB#12	24.92	28.92	33.00	PASS
BAND41	5MHz	16QAM	39675	1RB#24	25.07	29.07	33.00	PASS
BAND41	5MHz	16QAM	39675	12RB#0	23.96	27.96	33.00	PASS
BAND41	5MHz	16QAM	39675	12RB#6	23.97	27.97	33.00	PASS
BAND41	5MHz	16QAM	39675	12RB#13	23.94	27.94	33.00	PASS
BAND41	5MHz	16QAM	39675	25RB#0	23.99	27.99	33.00	PASS
BAND41	5MHz	16QAM	40620	1RB#0	24.91	28.91	33.00	PASS
BAND41	5MHz	16QAM	40620	1RB#12	24.83	28.83	33.00	PASS
BAND41	5MHz	16QAM	40620	1RB#24	25.15	29.15	33.00	PASS
BAND41	5MHz	16QAM	40620	12RB#0	23.94	27.94	33.00	PASS
BAND41	5MHz	16QAM	40620	12RB#6	23.84	27.84	33.00	PASS
BAND41	5MHz	16QAM	40620	12RB#13	23.87	27.87	33.00	PASS



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BAND41	5MHz	16QAM	40620	25RB#0	23.94	27.94	33.00	PASS
BAND41	5MHz	16QAM	41565	1RB#0	24.99	28.99	33.00	PASS
BAND41	5MHz	16QAM	41565	1RB#12	24.99	28.99	33.00	PASS
BAND41	5MHz	16QAM	41565	1RB#24	25.13	29.13	33.00	PASS
BAND41	5MHz	16QAM	41565	12RB#0	24.03	28.03	33.00	PASS
BAND41	5MHz	16QAM	41565	12RB#6	23.90	27.90	33.00	PASS
BAND41	5MHz	16QAM	41565	12RB#13	23.96	27.96	33.00	PASS
BAND41	5MHz	16QAM	41565	25RB#0	23.98	27.98	33.00	PASS
BAND41	5MHz	64QAM	39675	1RB#0	24.24	28.24	33.00	PASS
BAND41	5MHz	64QAM	39675	1RB#12	24.17	28.17	33.00	PASS
BAND41	5MHz	64QAM	39675	1RB#24	24.41	28.41	33.00	PASS
BAND41	5MHz	64QAM	39675	12RB#0	23.34	27.34	33.00	PASS
BAND41	5MHz	64QAM	39675	12RB#6	23.25	27.25	33.00	PASS
BAND41	5MHz	64QAM	39675	12RB#13	23.27	27.27	33.00	PASS
BAND41	5MHz	64QAM	39675	25RB#0	23.36	27.36	33.00	PASS
BAND41	5MHz	64QAM	40620	1RB#0	24.13	28.13	33.00	PASS
BAND41	5MHz	64QAM	40620	1RB#12	24.06	28.06	33.00	PASS
BAND41	5MHz	64QAM	40620	1RB#24	24.52	28.52	33.00	PASS
BAND41	5MHz	64QAM	40620	12RB#0	23.24	27.24	33.00	PASS
BAND41	5MHz	64QAM	40620	12RB#6	23.23	27.23	33.00	PASS
BAND41	5MHz	64QAM	40620	12RB#13	23.07	27.07	33.00	PASS
BAND41	5MHz	64QAM	40620	25RB#0	23.32	27.32	33.00	PASS
BAND41	5MHz	64QAM	41565	1RB#0	24.31	28.31	33.00	PASS
BAND41	5MHz	64QAM	41565	1RB#12	24.32	28.32	33.00	PASS
BAND41	5MHz	64QAM	41565	1RB#24	24.52	28.52	33.00	PASS
BAND41	5MHz	64QAM	41565	12RB#0	23.37	27.37	33.00	PASS
BAND41	5MHz	64QAM	41565	12RB#6	23.24	27.24	33.00	PASS
BAND41	5MHz	64QAM	41565	12RB#13	23.18	27.18	33.00	PASS
BAND41	5MHz	64QAM	41565	25RB#0	23.30	27.30	33.00	PASS
BAND41	10MHz	QPSK	39700	1RB#0	25.74	29.74	33.00	PASS
BAND41	10MHz	QPSK	39700	1RB#24	25.81	29.81	33.00	PASS
BAND41	10MHz	QPSK	39700	1RB#49	25.88	29.88	33.00	PASS
BAND41	10MHz	QPSK	39700	25RB#0	24.90	28.90	33.00	PASS
BAND41	10MHz	QPSK	39700	25RB#12	24.90	28.90	33.00	PASS
BAND41	10MHz	QPSK	39700	25RB#25	24.90	28.90	33.00	PASS
BAND41	10MHz	QPSK	39700	50RB#0	24.89	28.89	33.00	PASS
BAND41	10MHz	QPSK	40620	1RB#0	25.77	29.77	33.00	PASS
BAND41	10MHz	QPSK	40620	1RB#24	25.72	29.72	33.00	PASS
BAND41	10MHz	QPSK	40620	1RB#49	25.71	29.71	33.00	PASS
BAND41	10MHz	QPSK	40620	25RB#0	24.84	28.84	33.00	PASS
BAND41	10MHz	QPSK	40620	25RB#12	24.82	28.82	33.00	PASS

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BAND41	10MHz	QPSK	40620	25RB#25	24.81	28.81	33.00	PASS
BAND41	10MHz	QPSK	40620	50RB#0	24.81	28.81	33.00	PASS
BAND41	10MHz	QPSK	41540	1RB#0	25.81	29.81	33.00	PASS
BAND41	10MHz	QPSK	41540	1RB#24	25.80	29.80	33.00	PASS
BAND41	10MHz	QPSK	41540	1RB#49	25.70	29.70	33.00	PASS
BAND41	10MHz	QPSK	41540	25RB#0	24.90	28.90	33.00	PASS
BAND41	10MHz	QPSK	41540	25RB#12	24.88	28.88	33.00	PASS
BAND41	10MHz	QPSK	41540	25RB#25	24.87	28.87	33.00	PASS
BAND41	10MHz	QPSK	41540	50RB#0	24.86	28.86	33.00	PASS
BAND41	10MHz	16QAM	39700	1RB#0	24.87	28.87	33.00	PASS
BAND41	10MHz	16QAM	39700	1RB#24	25.10	29.10	33.00	PASS
BAND41	10MHz	16QAM	39700	1RB#49	24.99	28.99	33.00	PASS
BAND41	10MHz	16QAM	39700	25RB#0	23.97	27.97	33.00	PASS
BAND41	10MHz	16QAM	39700	25RB#12	23.98	27.98	33.00	PASS
BAND41	10MHz	16QAM	39700	25RB#25	23.95	27.95	33.00	PASS
BAND41	10MHz	16QAM	39700	50RB#0	23.91	27.91	33.00	PASS
BAND41	10MHz	16QAM	40620	1RB#0	24.88	28.88	33.00	PASS
BAND41	10MHz	16QAM	40620	1RB#24	25.05	29.05	33.00	PASS
BAND41	10MHz	16QAM	40620	1RB#49	24.94	28.94	33.00	PASS
BAND41	10MHz	16QAM	40620	25RB#0	23.87	27.87	33.00	PASS
BAND41	10MHz	16QAM	40620	25RB#12	23.92	27.92	33.00	PASS
BAND41	10MHz	16QAM	40620	25RB#25	23.82	27.82	33.00	PASS
BAND41	10MHz	16QAM	40620	50RB#0	23.86	27.86	33.00	PASS
BAND41	10MHz	16QAM	41540	1RB#0	24.80	28.80	33.00	PASS
BAND41	10MHz	16QAM	41540	1RB#24	24.91	28.91	33.00	PASS
BAND41	10MHz	16QAM	41540	1RB#49	24.97	28.97	33.00	PASS
BAND41	10MHz	16QAM	41540	25RB#0	23.98	27.98	33.00	PASS
BAND41	10MHz	16QAM	41540	25RB#12	24.01	28.01	33.00	PASS
BAND41	10MHz	16QAM	41540	25RB#25	23.91	27.91	33.00	PASS
BAND41	10MHz	16QAM	41540	50RB#0	24.06	28.06	33.00	PASS
BAND41	10MHz	64QAM	39700	1RB#0	24.20	28.20	33.00	PASS
BAND41	10MHz	64QAM	39700	1RB#24	24.32	28.32	33.00	PASS
BAND41	10MHz	64QAM	39700	1RB#49	24.36	28.36	33.00	PASS
BAND41	10MHz	64QAM	39700	25RB#0	23.23	27.23	33.00	PASS
BAND41	10MHz	64QAM	39700	25RB#12	23.37	27.37	33.00	PASS
BAND41	10MHz	64QAM	39700	25RB#25	23.33	27.33	33.00	PASS
BAND41	10MHz	64QAM	39700	50RB#0	23.11	27.11	33.00	PASS
BAND41	10MHz	64QAM	40620	1RB#0	24.14	28.14	33.00	PASS
BAND41	10MHz	64QAM	40620	1RB#24	24.37	28.37	33.00	PASS
BAND41	10MHz	64QAM	40620	1RB#49	24.27	28.27	33.00	PASS
BAND41	10MHz	64QAM	40620	25RB#0	23.26	27.26	33.00	PASS

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BAND41	10MHz	64QAM	40620	25RB#12	23.18	27.18	33.00	PASS
BAND41	10MHz	64QAM	40620	25RB#25	23.07	27.07	33.00	PASS
BAND41	10MHz	64QAM	40620	50RB#0	23.25	27.25	33.00	PASS
BAND41	10MHz	64QAM	41540	1RB#0	24.06	28.06	33.00	PASS
BAND41	10MHz	64QAM	41540	1RB#24	24.27	28.27	33.00	PASS
BAND41	10MHz	64QAM	41540	1RB#49	24.18	28.18	33.00	PASS
BAND41	10MHz	64QAM	41540	25RB#0	23.23	27.23	33.00	PASS
BAND41	10MHz	64QAM	41540	25RB#12	23.29	27.29	33.00	PASS
BAND41	10MHz	64QAM	41540	25RB#25	23.28	27.28	33.00	PASS
BAND41	10MHz	64QAM	41540	50RB#0	23.30	27.30	33.00	PASS
BAND41	15MHz	QPSK	39725	1RB#0	25.68	29.68	33.00	PASS
BAND41	15MHz	QPSK	39725	1RB#38	25.72	29.72	33.00	PASS
BAND41	15MHz	QPSK	39725	1RB#74	25.86	29.86	33.00	PASS
BAND41	15MHz	QPSK	39725	36RB#0	24.87	28.87	33.00	PASS
BAND41	15MHz	QPSK	39725	36RB#18	24.88	28.88	33.00	PASS
BAND41	15MHz	QPSK	39725	36RB#39	24.95	28.95	33.00	PASS
BAND41	15MHz	QPSK	39725	75RB#0	24.86	28.86	33.00	PASS
BAND41	15MHz	QPSK	40620	1RB#0	25.78	29.78	33.00	PASS
BAND41	15MHz	QPSK	40620	1RB#38	25.70	29.70	33.00	PASS
BAND41	15MHz	QPSK	40620	1RB#74	25.67	29.67	33.00	PASS
BAND41	15MHz	QPSK	40620	36RB#0	24.84	28.84	33.00	PASS
BAND41	15MHz	QPSK	40620	36RB#18	24.83	28.83	33.00	PASS
BAND41	15MHz	QPSK	40620	36RB#39	24.82	28.82	33.00	PASS
BAND41	15MHz	QPSK	40620	75RB#0	24.80	28.80	33.00	PASS
BAND41	15MHz	QPSK	41515	1RB#0	25.74	29.74	33.00	PASS
BAND41	15MHz	QPSK	41515	1RB#38	25.70	29.70	33.00	PASS
BAND41	15MHz	QPSK	41515	1RB#74	25.61	29.61	33.00	PASS
BAND41	15MHz	QPSK	41515	36RB#0	24.86	28.86	33.00	PASS
BAND41	15MHz	QPSK	41515	36RB#18	24.84	28.84	33.00	PASS
BAND41	15MHz	QPSK	41515	36RB#39	24.81	28.81	33.00	PASS
BAND41	15MHz	QPSK	41515	75RB#0	24.82	28.82	33.00	PASS
BAND41	15MHz	16QAM	39725	1RB#0	25.05	29.05	33.00	PASS
BAND41	15MHz	16QAM	39725	1RB#38	24.94	28.94	33.00	PASS
BAND41	15MHz	16QAM	39725	1RB#74	24.96	28.96	33.00	PASS
BAND41	15MHz	16QAM	39725	36RB#0	24.01	28.01	33.00	PASS
BAND41	15MHz	16QAM	39725	36RB#18	23.88	27.88	33.00	PASS
BAND41	15MHz	16QAM	39725	36RB#39	24.94	28.94	33.00	PASS
BAND41	15MHz	16QAM	39725	75RB#0	24.81	28.81	33.00	PASS
BAND41	15MHz	16QAM	40620	1RB#0	24.88	28.88	33.00	PASS
BAND41	15MHz	16QAM	40620	1RB#38	24.88	28.88	33.00	PASS
BAND41	15MHz	16QAM	40620	1RB#74	24.86	28.86	33.00	PASS

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BAND41	15MHz	16QAM	40620	36RB#0	23.83	27.83	33.00	PASS
BAND41	15MHz	16QAM	40620	36RB#18	23.81	27.81	33.00	PASS
BAND41	15MHz	16QAM	40620	36RB#39	25.00	29.00	33.00	PASS
BAND41	15MHz	16QAM	40620	75RB#0	25.19	29.19	33.00	PASS
BAND41	15MHz	16QAM	41515	1RB#0	24.95	28.95	33.00	PASS
BAND41	15MHz	16QAM	41515	1RB#38	24.94	28.94	33.00	PASS
BAND41	15MHz	16QAM	41515	1RB#74	24.89	28.89	33.00	PASS
BAND41	15MHz	16QAM	41515	36RB#0	23.89	27.89	33.00	PASS
BAND41	15MHz	16QAM	41515	36RB#18	23.86	27.86	33.00	PASS
BAND41	15MHz	16QAM	41515	36RB#39	25.01	29.01	33.00	PASS
BAND41	15MHz	16QAM	41515	75RB#0	25.04	29.04	33.00	PASS
BAND41	15MHz	64QAM	39725	1RB#0	24.42	28.42	33.00	PASS
BAND41	15MHz	64QAM	39725	1RB#38	24.22	28.22	33.00	PASS
BAND41	15MHz	64QAM	39725	1RB#74	24.28	28.28	33.00	PASS
BAND41	15MHz	64QAM	39725	36RB#0	23.22	27.22	33.00	PASS
BAND41	15MHz	64QAM	39725	36RB#18	23.23	27.23	33.00	PASS
BAND41	15MHz	64QAM	39725	36RB#39	24.24	28.24	33.00	PASS
BAND41	15MHz	64QAM	39725	75RB#0	24.18	28.18	33.00	PASS
BAND41	15MHz	64QAM	40620	1RB#0	24.13	28.13	33.00	PASS
BAND41	15MHz	64QAM	40620	1RB#38	24.28	28.28	33.00	PASS
BAND41	15MHz	64QAM	40620	1RB#74	24.06	28.06	33.00	PASS
BAND41	15MHz	64QAM	40620	36RB#0	23.09	27.09	33.00	PASS
BAND41	15MHz	64QAM	40620	36RB#18	23.13	27.13	33.00	PASS
BAND41	15MHz	64QAM	40620	36RB#39	24.27	28.27	33.00	PASS
BAND41	15MHz	64QAM	40620	75RB#0	24.46	28.46	33.00	PASS
BAND41	15MHz	64QAM	41515	1RB#0	24.34	28.34	33.00	PASS
BAND41	15MHz	64QAM	41515	1RB#38	24.17	28.17	33.00	PASS
BAND41	15MHz	64QAM	41515	1RB#74	24.09	28.09	33.00	PASS
BAND41	15MHz	64QAM	41515	36RB#0	23.14	27.14	33.00	PASS
BAND41	15MHz	64QAM	41515	36RB#18	23.21	27.21	33.00	PASS
BAND41	15MHz	64QAM	41515	36RB#39	24.41	28.41	33.00	PASS
BAND41	15MHz	64QAM	41515	75RB#0	24.26	28.26	33.00	PASS
BAND41	20MHz	QPSK	39750	1RB#0	25.78	29.78	33.00	PASS
BAND41	20MHz	QPSK	39750	1RB#49	25.80	29.80	33.00	PASS
BAND41	20MHz	QPSK	39750	1RB#99	25.98	29.98	33.00	PASS
BAND41	20MHz	QPSK	39750	50RB#0	24.87	28.87	33.00	PASS
BAND41	20MHz	QPSK	39750	50RB#25	24.93	28.93	33.00	PASS
BAND41	20MHz	QPSK	39750	50RB#50	24.95	28.95	33.00	PASS
BAND41	20MHz	QPSK	39750	100RB#0	24.96	28.96	33.00	PASS
BAND41	20MHz	QPSK	40620	1RB#0	25.84	29.84	33.00	PASS
BAND41	20MHz	QPSK	40620	1RB#49	25.72	29.72	33.00	PASS

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BAND41	20MHz	QPSK	40620	1RB#99	25.80	29.80	33.00	PASS
BAND41	20MHz	QPSK	40620	50RB#0	24.85	28.85	33.00	PASS
BAND41	20MHz	QPSK	40620	50RB#25	24.81	28.81	33.00	PASS
BAND41	20MHz	QPSK	40620	50RB#50	24.81	28.81	33.00	PASS
BAND41	20MHz	QPSK	40620	100RB#0	24.83	28.83	33.00	PASS
BAND41	20MHz	QPSK	41490	1RB#0	25.81	29.81	33.00	PASS
BAND41	20MHz	QPSK	41490	1RB#49	25.71	29.71	33.00	PASS
BAND41	20MHz	QPSK	41490	1RB#99	25.80	29.80	33.00	PASS
BAND41	20MHz	QPSK	41490	50RB#0	24.86	28.86	33.00	PASS
BAND41	20MHz	QPSK	41490	50RB#25	24.82	28.82	33.00	PASS
BAND41	20MHz	QPSK	41490	50RB#50	24.81	28.81	33.00	PASS
BAND41	20MHz	QPSK	41490	100RB#0	24.84	28.84	33.00	PASS
BAND41	20MHz	16QAM	39750	1RB#0	25.36	29.36	33.00	PASS
BAND41	20MHz	16QAM	39750	1RB#49	24.93	28.93	33.00	PASS
BAND41	20MHz	16QAM	39750	1RB#99	24.96	28.96	33.00	PASS
BAND41	20MHz	16QAM	39750	50RB#0	23.99	27.99	33.00	PASS
BAND41	20MHz	16QAM	39750	50RB#25	23.98	27.98	33.00	PASS
BAND41	20MHz	16QAM	39750	50RB#50	25.01	29.01	33.00	PASS
BAND41	20MHz	16QAM	39750	100RB#0	24.82	28.82	33.00	PASS
BAND41	20MHz	16QAM	40620	1RB#0	24.83	28.83	33.00	PASS
BAND41	20MHz	16QAM	40620	1RB#49	24.85	28.85	33.00	PASS
BAND41	20MHz	16QAM	40620	1RB#99	24.81	28.81	33.00	PASS
BAND41	20MHz	16QAM	40620	50RB#0	23.81	27.81	33.00	PASS
BAND41	20MHz	16QAM	40620	50RB#25	23.84	27.84	33.00	PASS
BAND41	20MHz	16QAM	40620	50RB#50	23.96	27.96	33.00	PASS
BAND41	20MHz	16QAM	40620	100RB#0	24.80	28.80	33.00	PASS
BAND41	20MHz	16QAM	41490	1RB#0	24.95	28.95	33.00	PASS
BAND41	20MHz	16QAM	41490	1RB#49	24.91	28.91	33.00	PASS
BAND41	20MHz	16QAM	41490	1RB#99	24.88	28.88	33.00	PASS
BAND41	20MHz	16QAM	41490	50RB#0	23.87	27.87	33.00	PASS
BAND41	20MHz	16QAM	41490	50RB#25	23.87	27.87	33.00	PASS
BAND41	20MHz	16QAM	41490	50RB#50	23.85	27.85	33.00	PASS
BAND41	20MHz	16QAM	41490	100RB#0	23.67	27.67	33.00	PASS
BAND41	20MHz	64QAM	39750	1RB#0	24.71	28.71	33.00	PASS
BAND41	20MHz	64QAM	39750	1RB#49	24.30	28.30	33.00	PASS
BAND41	20MHz	64QAM	39750	1RB#99	24.19	28.19	33.00	PASS
BAND41	20MHz	64QAM	39750	50RB#0	23.37	27.37	33.00	PASS
BAND41	20MHz	64QAM	39750	50RB#25	23.27	27.27	33.00	PASS
BAND41	20MHz	64QAM	39750	50RB#50	24.26	28.26	33.00	PASS
BAND41	20MHz	64QAM	39750	100RB#0	24.17	28.17	33.00	PASS
BAND41	20MHz	64QAM	40620	1RB#0	24.14	28.14	33.00	PASS

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BAND41	20MHz	64QAM	40620	1RB#49	24.13	28.13	33.00	PASS
BAND41	20MHz	64QAM	40620	1RB#99	24.16	28.16	33.00	PASS
BAND41	20MHz	64QAM	40620	50RB#0	23.18	27.18	33.00	PASS
BAND41	20MHz	64QAM	40620	50RB#25	23.10	27.10	33.00	PASS
BAND41	20MHz	64QAM	40620	50RB#50	23.26	27.26	33.00	PASS
BAND41	20MHz	64QAM	40620	100RB#0	24.16	28.16	33.00	PASS
BAND41	20MHz	64QAM	41490	1RB#0	24.15	28.15	33.00	PASS
BAND41	20MHz	64QAM	41490	1RB#49	24.25	28.25	33.00	PASS
BAND41	20MHz	64QAM	41490	1RB#99	24.16	28.16	33.00	PASS
BAND41	20MHz	64QAM	41490	50RB#0	23.24	27.24	33.00	PASS
BAND41	20MHz	64QAM	41490	50RB#25	23.26	27.26	33.00	PASS
BAND41	20MHz	64QAM	41490	50RB#50	23.22	27.22	33.00	PASS
BAND41	20MHz	64QAM	41490	100RB#0	22.99	26.99	33.00	PASS

Note:

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

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

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

b: SGP=Signal Generator Level

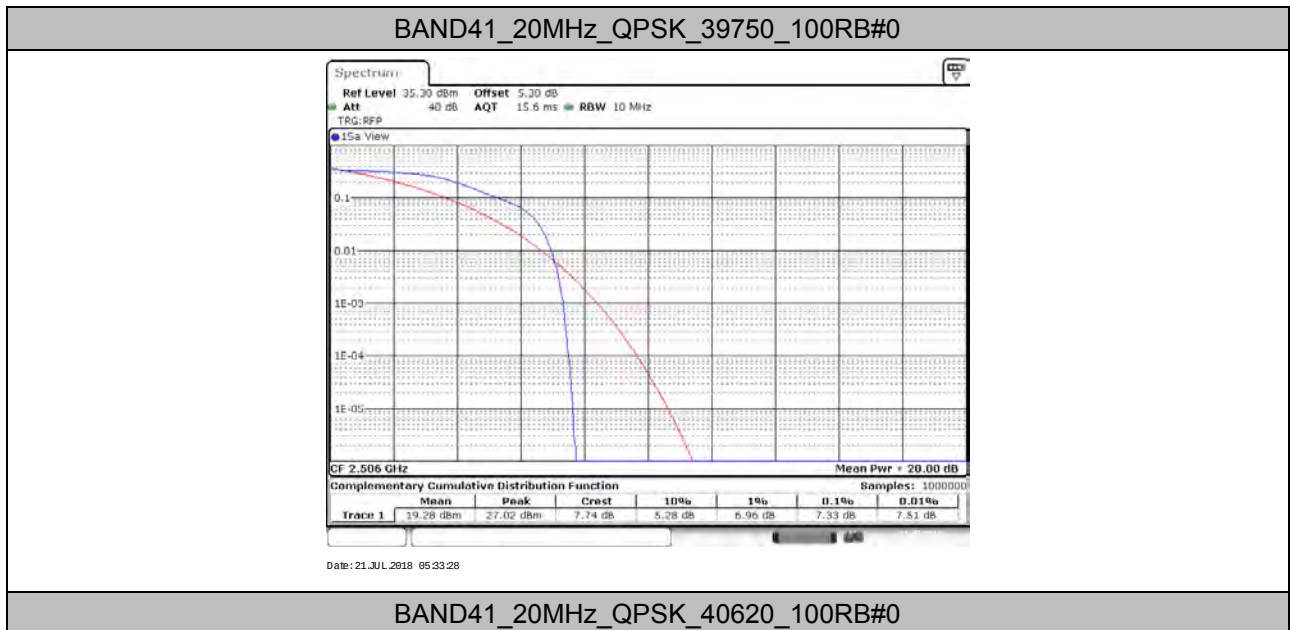


2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
BAND 41	20MHz	QPSK	39750	100RB#0	7.33	13	PASS
			40620	100RB#0	7.16	13	PASS
			41490	100RB#0	7.36	13	PASS
		16QAM	39750	100RB#0	8.96	13	PASS
			40620	100RB#0	8.72	13	PASS
			41490	100RB#0	8.99	13	PASS
		64QAM	39750	100RB#0	9.19	13	PASS
			40620	100RB#0	9.19	13	PASS
			41490	100RB#0	9.36	13	PASS

2.2. Test Plots





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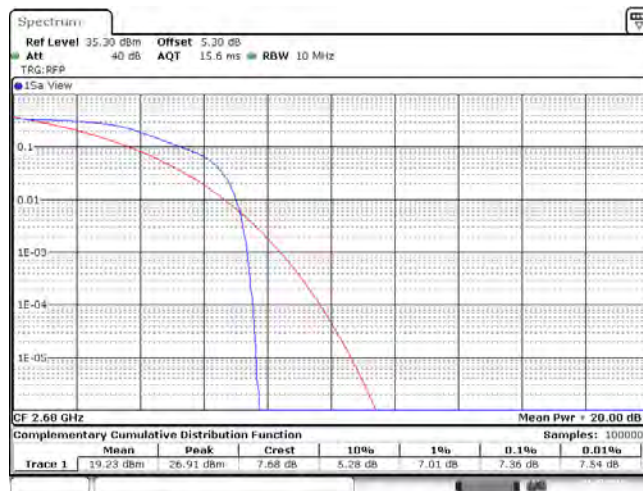
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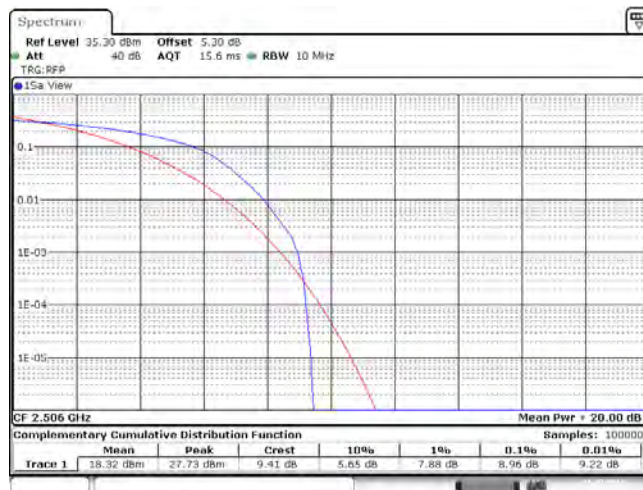
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BAND41_20MHz_QPSK_41490_100RB#0



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BAND41_20MHz_16QAM_39750_100RB#0



Date: 21 JUL 2018 06:33:36

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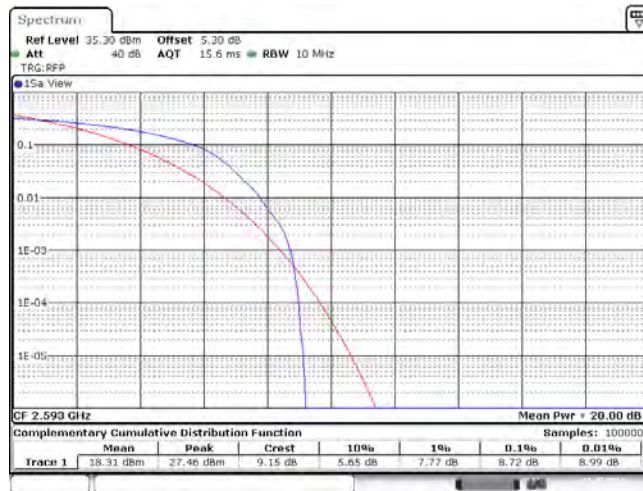
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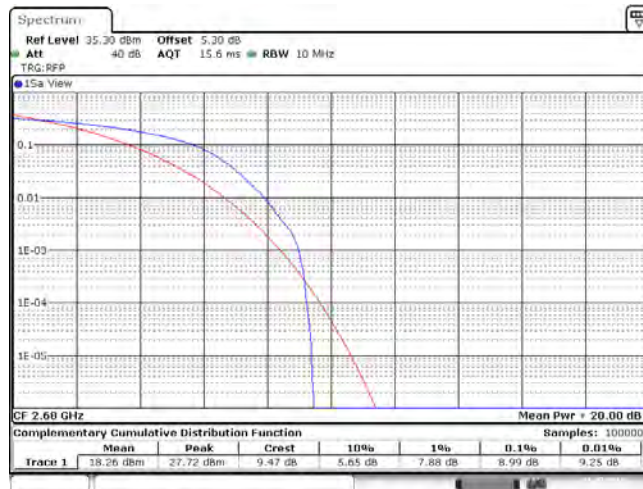
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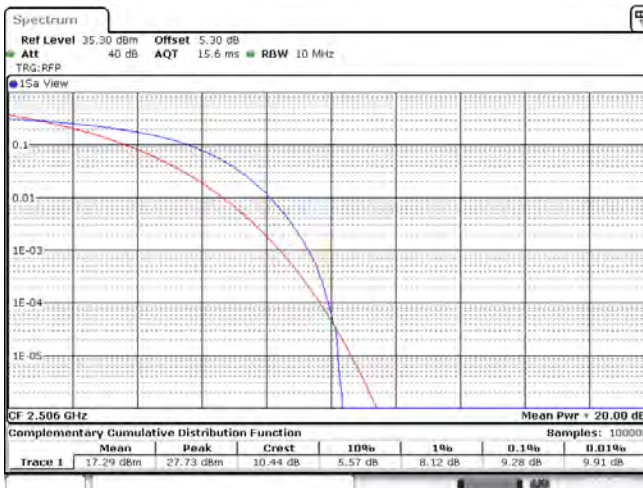
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BAND41_20MHz_16QAM_41490_100RB#0



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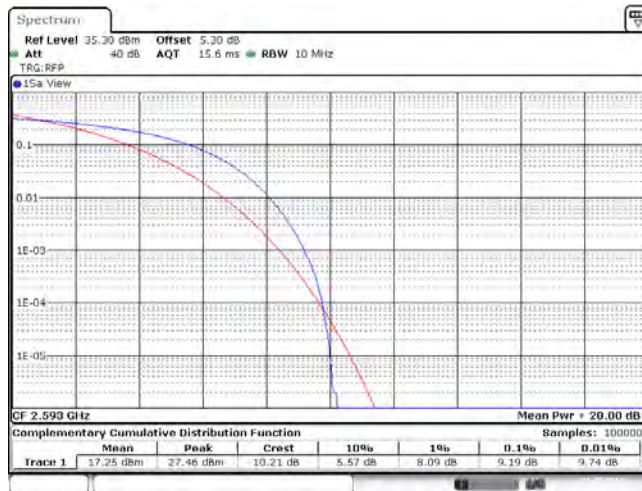
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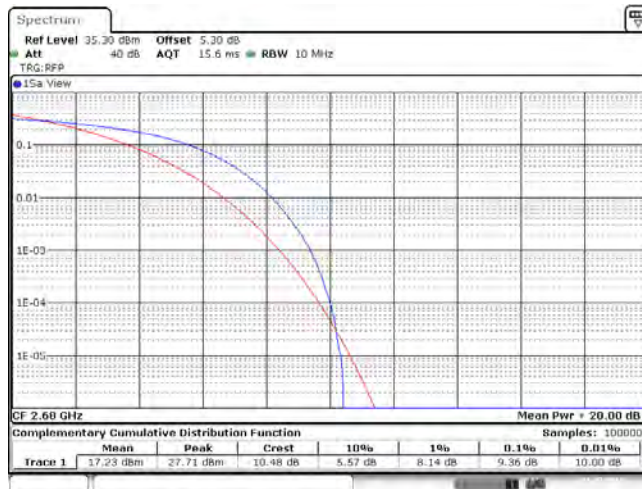
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BAND41_20MHz_64QAM_41490_100RB#0



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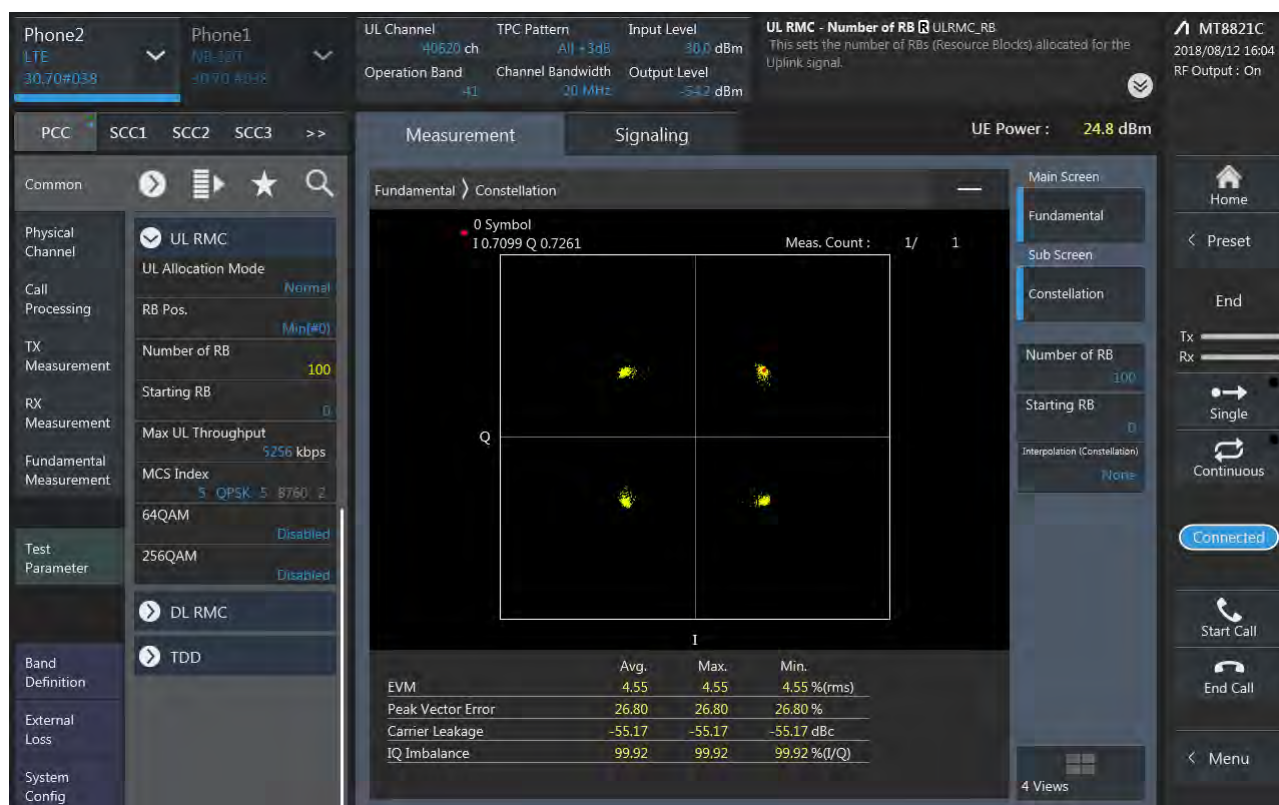


3. Modulation Characteristics

3.1. Test BAND = LTE BAND41

3.1.1. Test Mode = LTE /TM1 20MHz

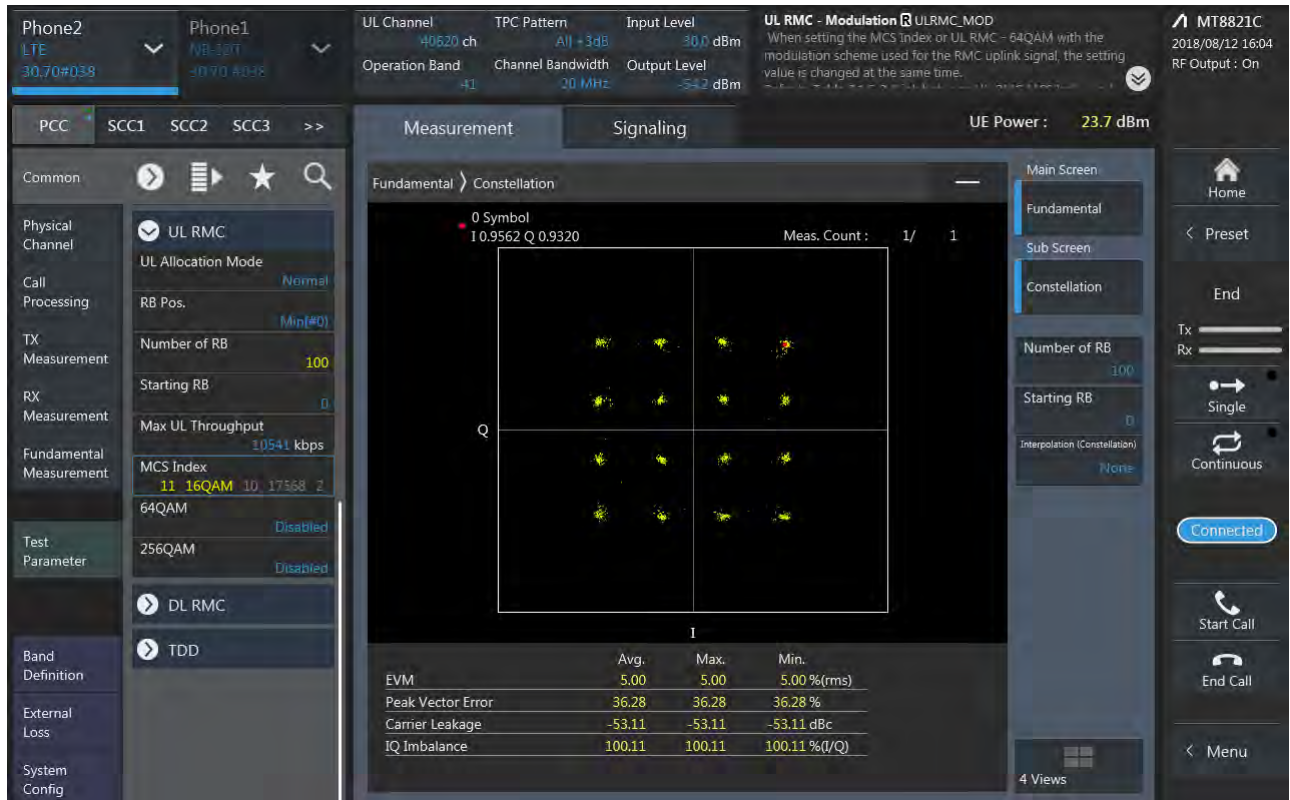
3.1.1.1. Test Channel = MCH





3.1.2. Test Mode = LTE /TM2 20MHz

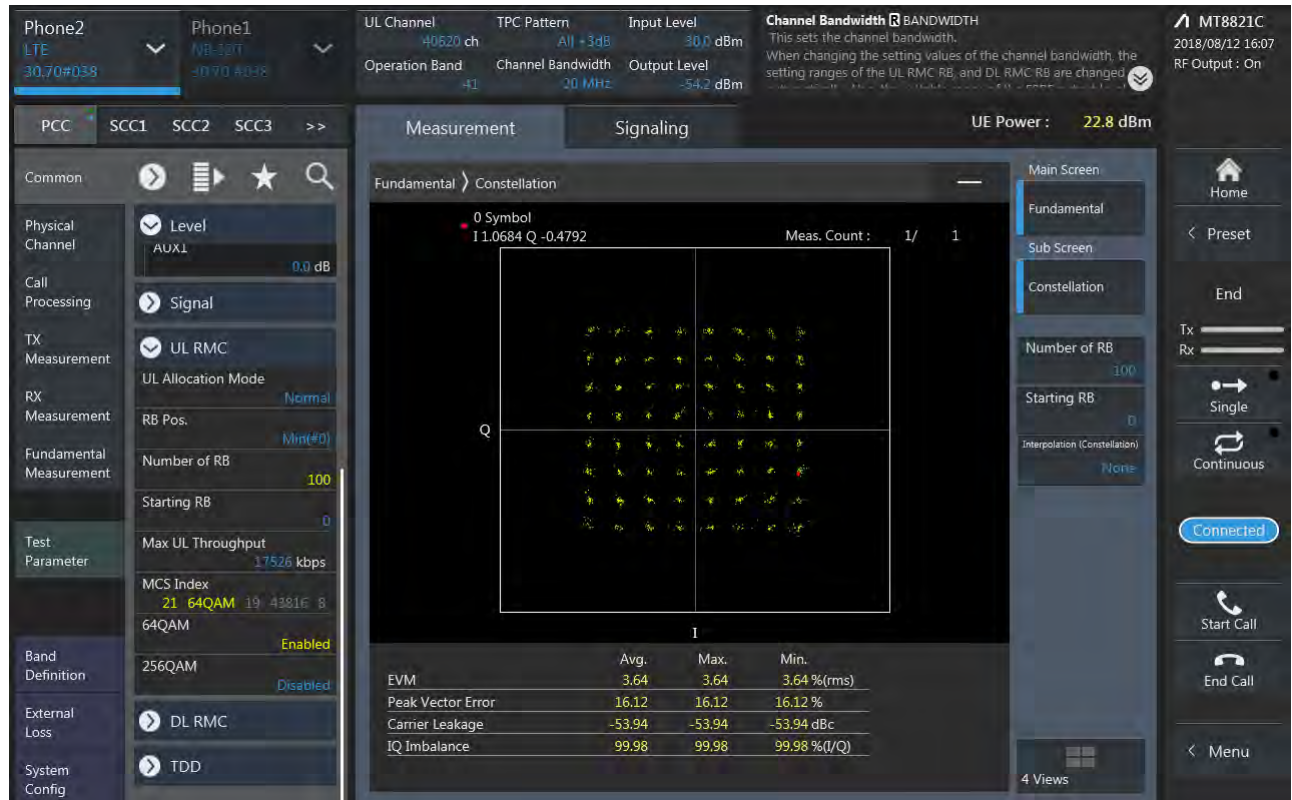
3.1.2.1. Test Channel = MCH





3.1.1. Test Mode = LTE /TM3 20MHz

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
BAND41	5MHz	QPSK	39675	25RB#0	4.476	4.900	PASS
			40620	25RB#0	4.486	5.260	PASS
			41565	25RB#0	4.476	4.900	PASS
		64QAM	39675	25RB#0	4.476	4.890	PASS
			40620	25RB#0	4.486	5.270	PASS
			41565	25RB#0	4.476	4.960	PASS
		16QAM	39675	25RB#0	4.476	5.120	PASS
			40620	25RB#0	4.486	6.800	PASS
			41565	25RB#0	4.466	4.920	PASS
	10MHz	QPSK	39700	50RB#0	8.951	10.420	PASS
			40620	50RB#0	8.991	10.620	PASS
			41540	50RB#0	8.971	10.360	PASS
		64QAM	39700	50RB#0	8.951	10.280	PASS
			40620	50RB#0	8.971	11.160	PASS
			41540	50RB#0	8.951	10.400	PASS
		16QAM	39700	50RB#0	8.951	10.280	PASS
			40620	50RB#0	8.991	12.020	PASS
			41540	50RB#0	8.951	10.220	PASS
	15MHz	QPSK	39725	75RB#0	13.546	15.870	PASS
			40620	75RB#0	13.576	16.260	PASS
			41515	75RB#0	13.546	15.960	PASS
		64QAM	39725	75RB#0	13.546	16.650	PASS
			40620	75RB#0	13.576	16.680	PASS
			41515	75RB#0	13.546	16.050	PASS
		16QAM	39725	75RB#0	13.546	16.350	PASS
			40620	75RB#0	13.576	18.060	PASS
			41515	75RB#0	13.546	16.200	PASS
	20MHz	QPSK	39750	100RB#0	17.982	21.680	PASS
			40620	100RB#0	17.982	21.840	PASS
			41490	100RB#0	17.982	20.800	PASS
		64QAM	39750	100RB#0	17.982	23.280	PASS
			40620	100RB#0	17.982	21.680	PASS
			41490	100RB#0	17.942	22.520	PASS



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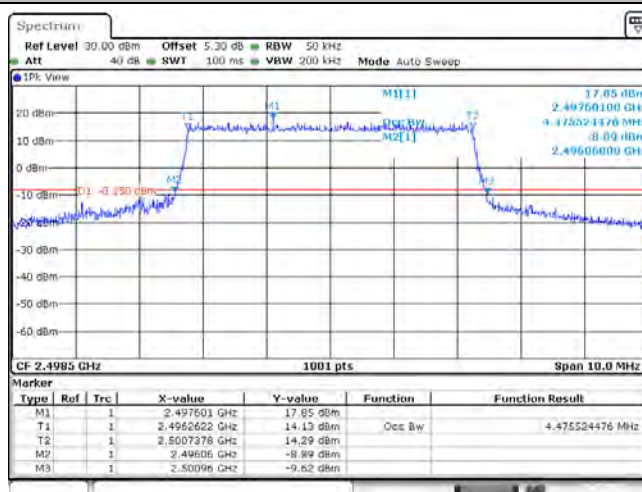
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		16QAM	39750	100RB#0	17.942	20.840	PASS
			40620	100RB#0	17.982	24.680	PASS
			41490	100RB#0	17.942	20.240	PASS

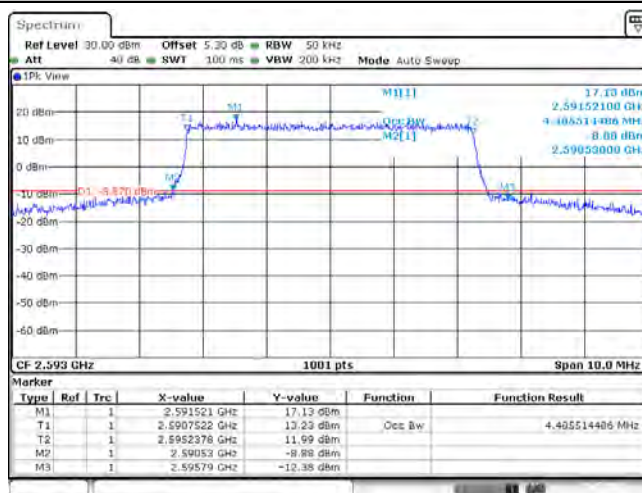
4.2. Test Plots

BAND41_5MHz_QPSK_39675_25RB#0



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BAND41_5MHz_QPSK_40620_25RB#0



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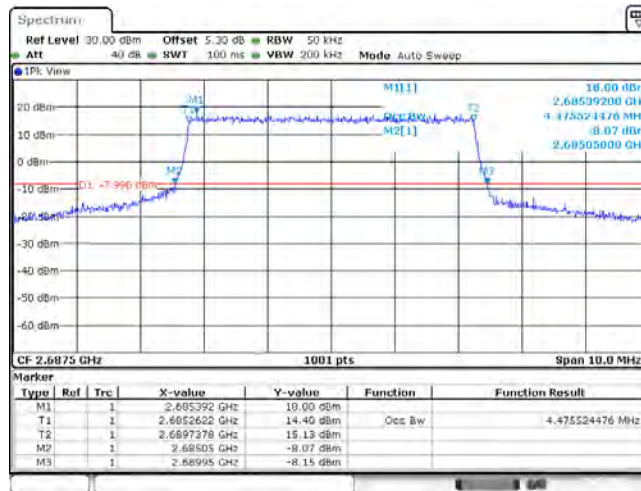
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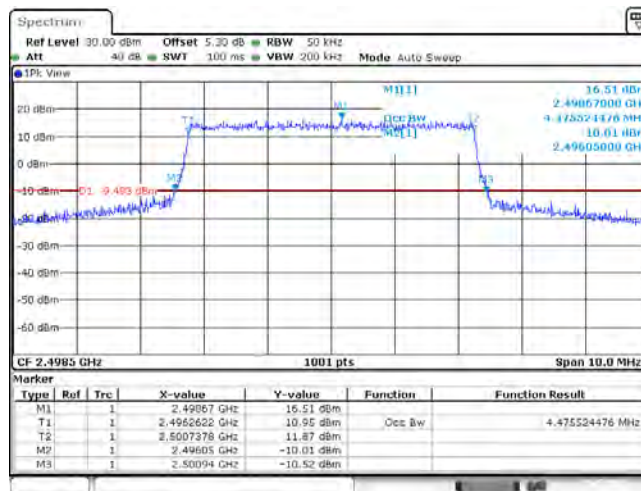
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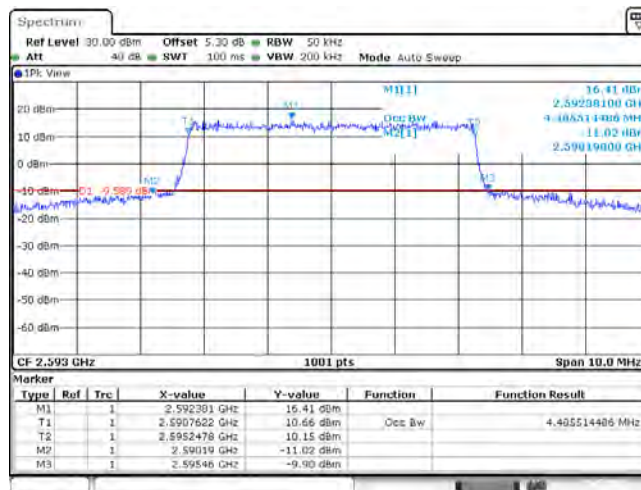
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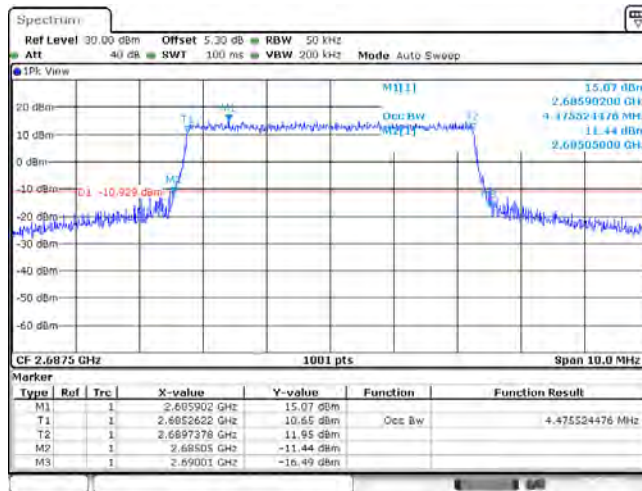
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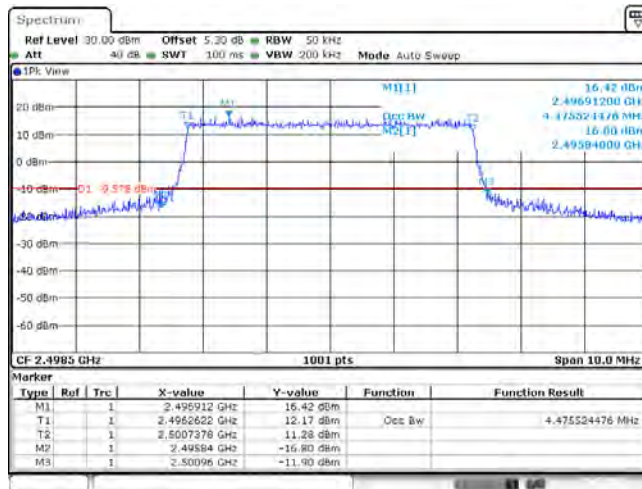
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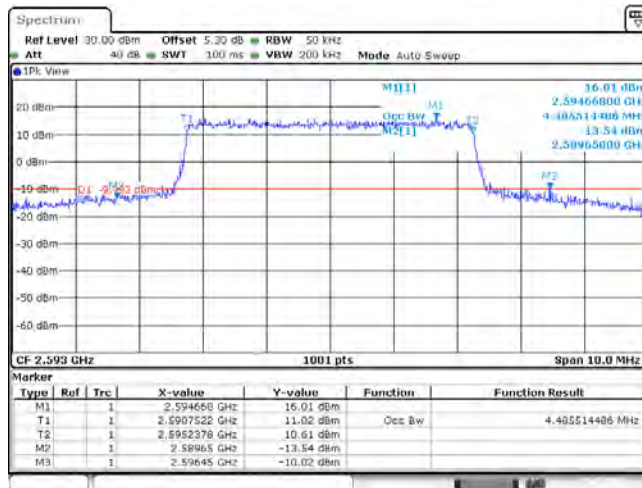
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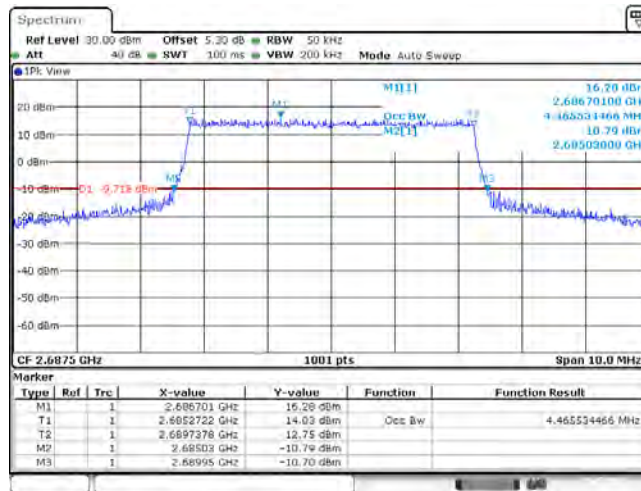
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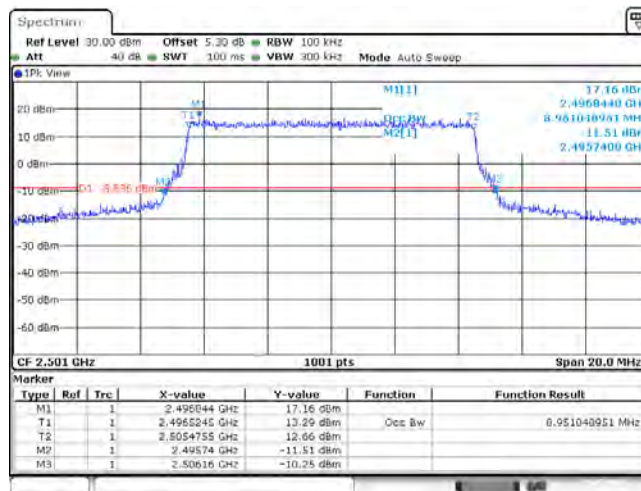
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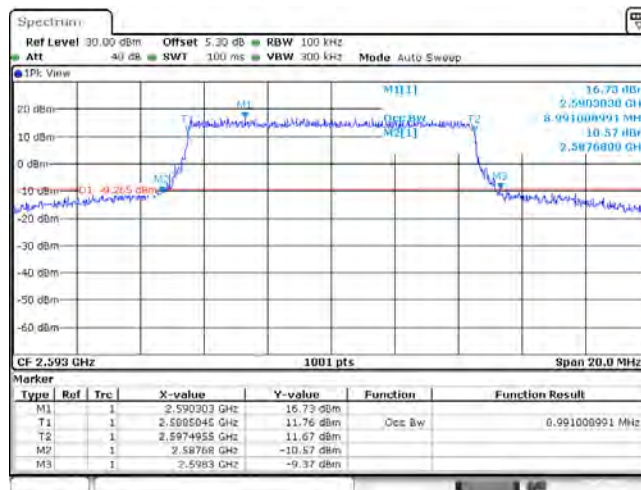
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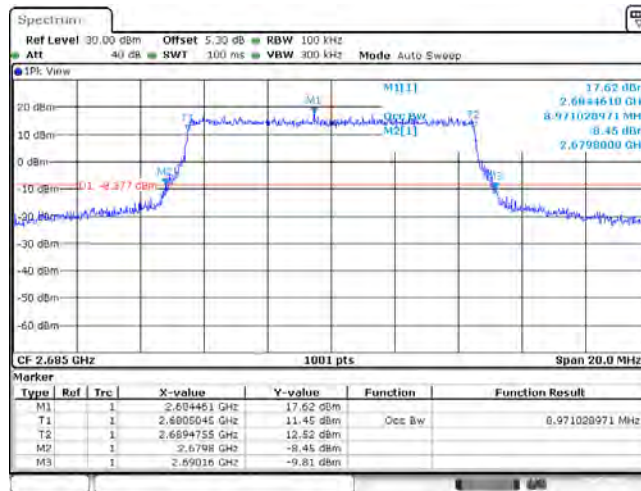
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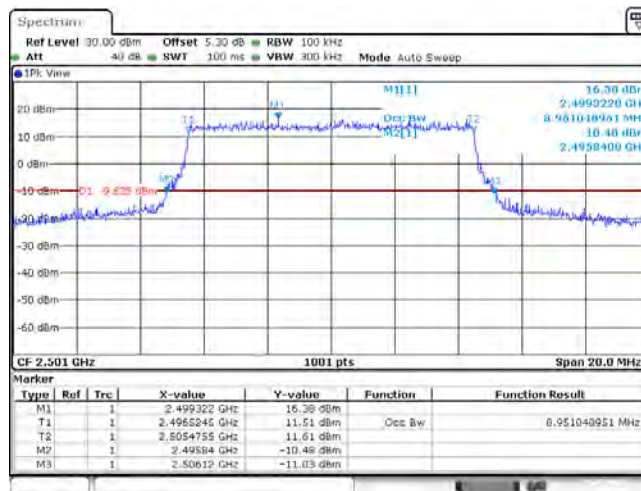
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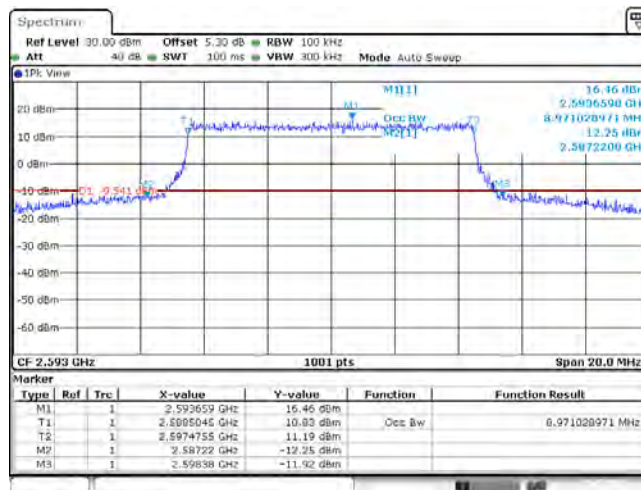
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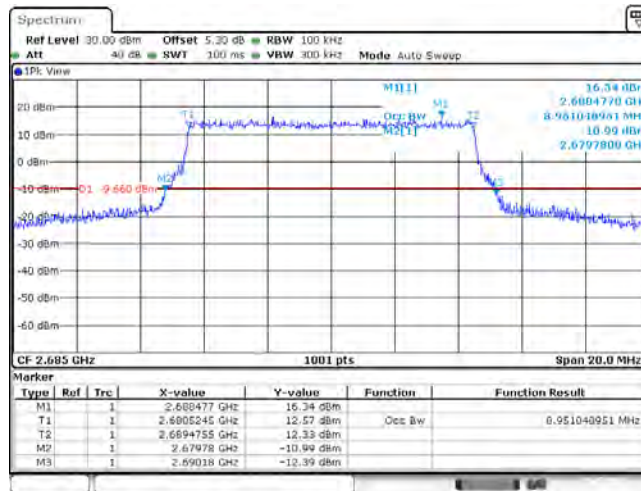
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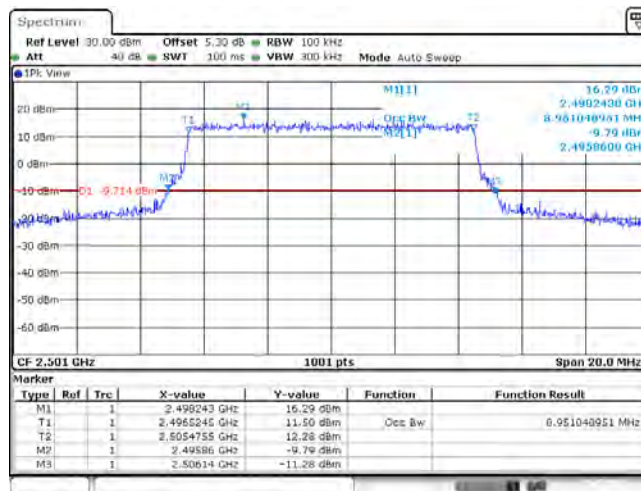
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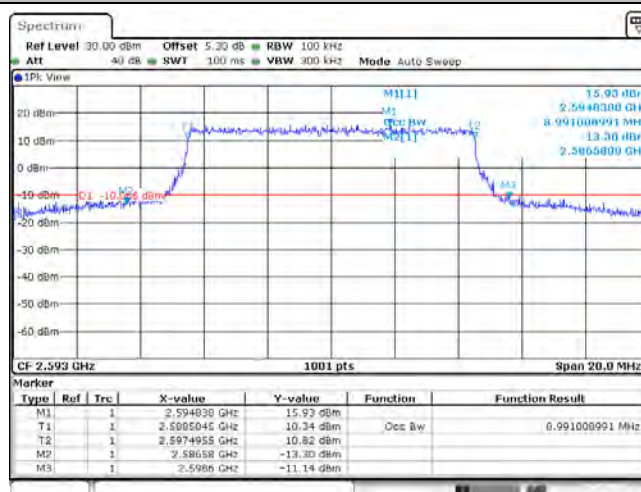
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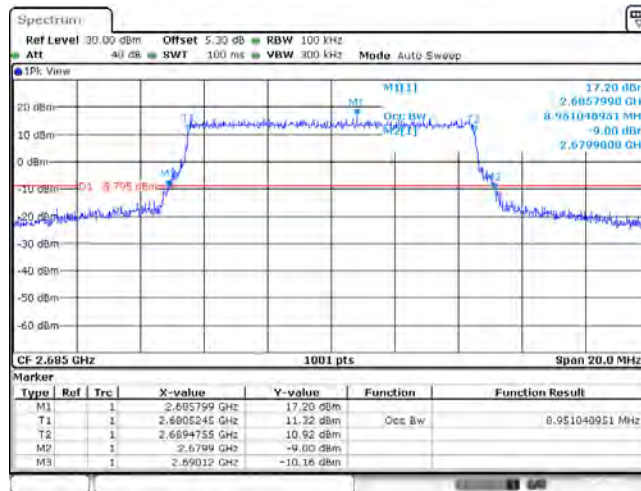
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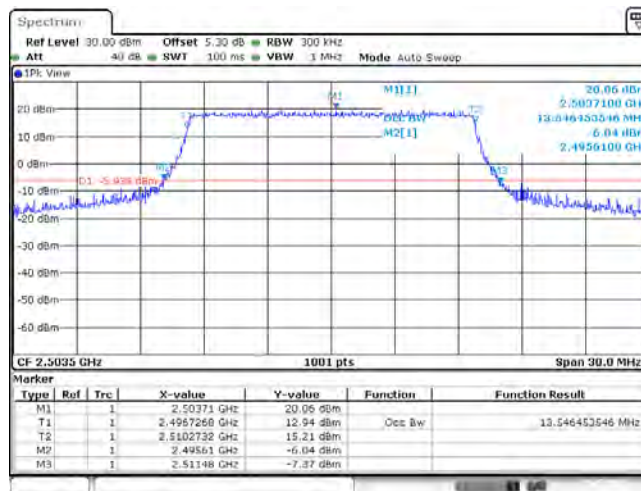
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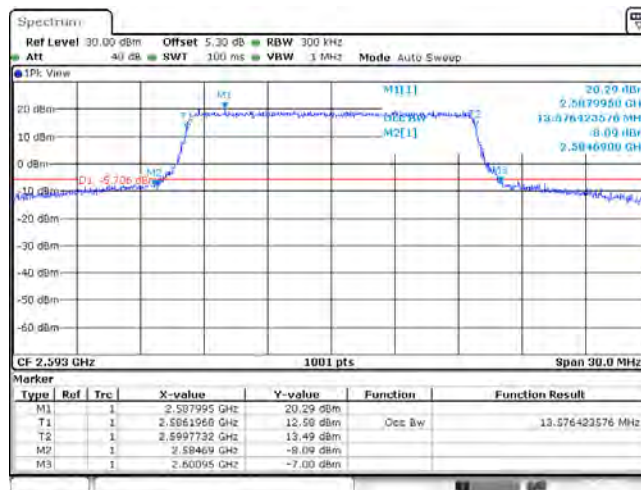
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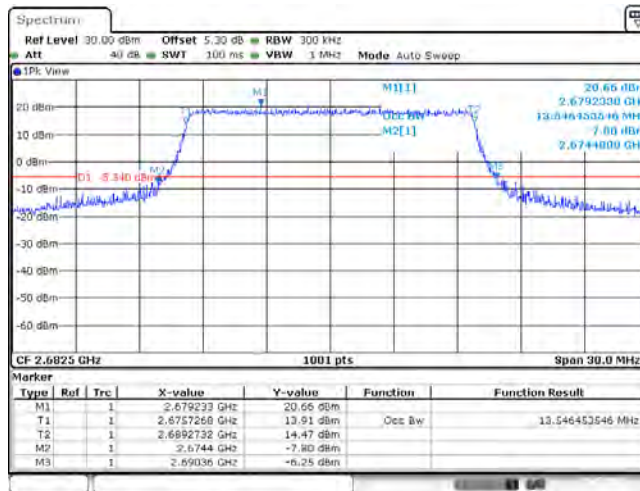
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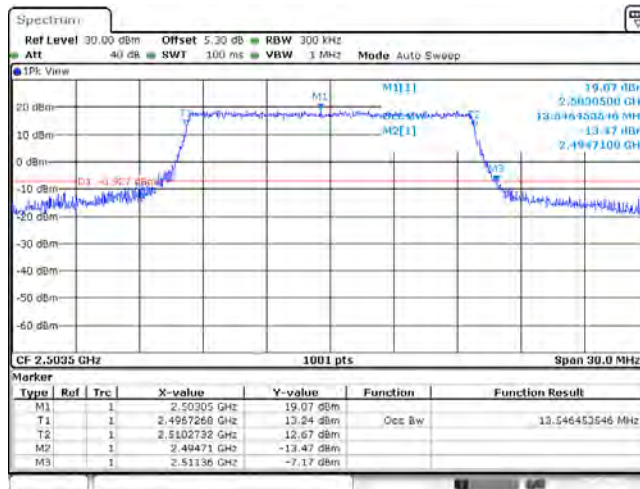
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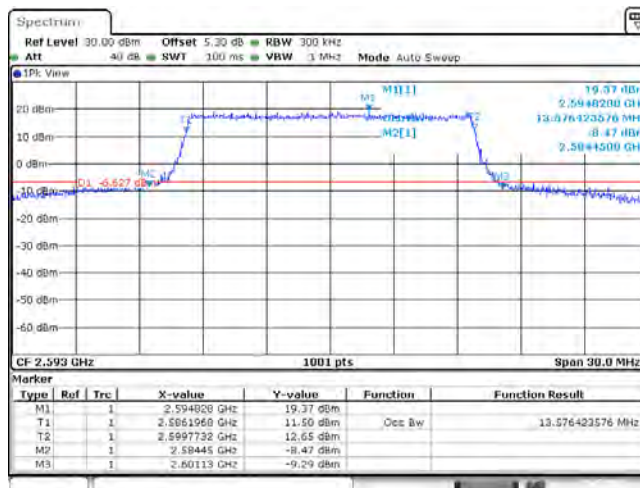
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Date: 21 JUL 2018 05:36:43

BAND41_15MHz_64QAM_40620_75RB#0



Date: 21 JUL 2018 05:36:56

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

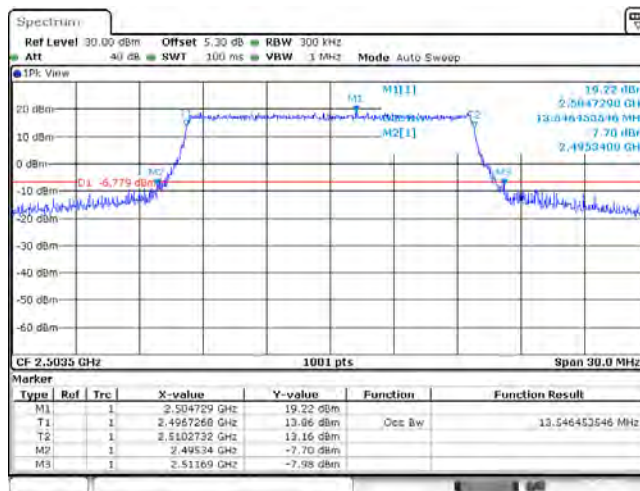
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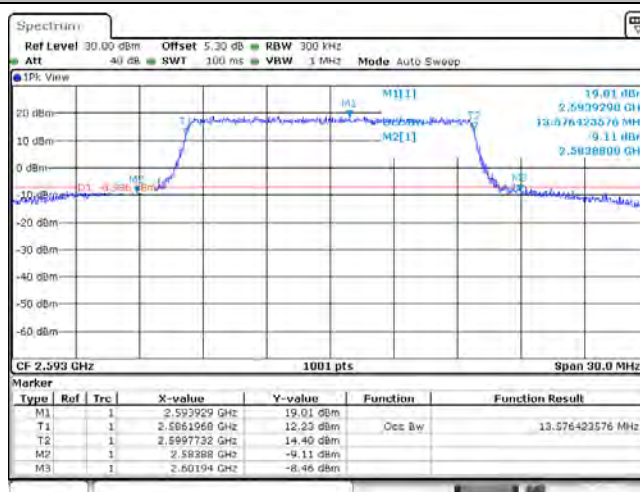
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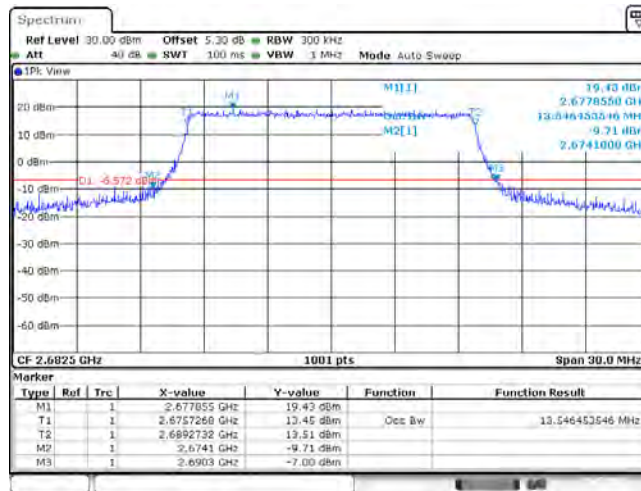
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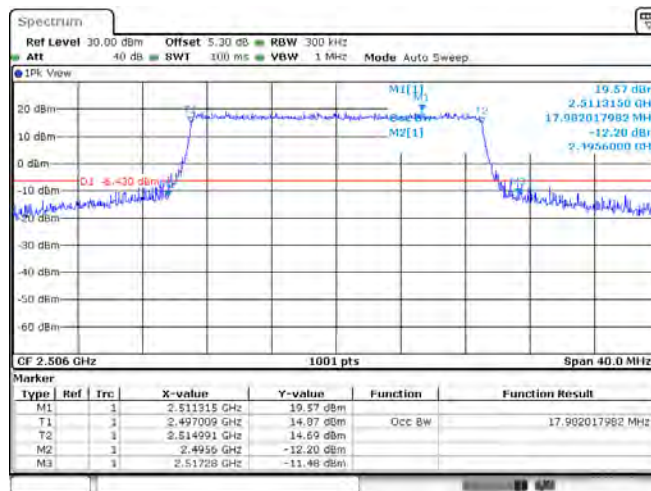
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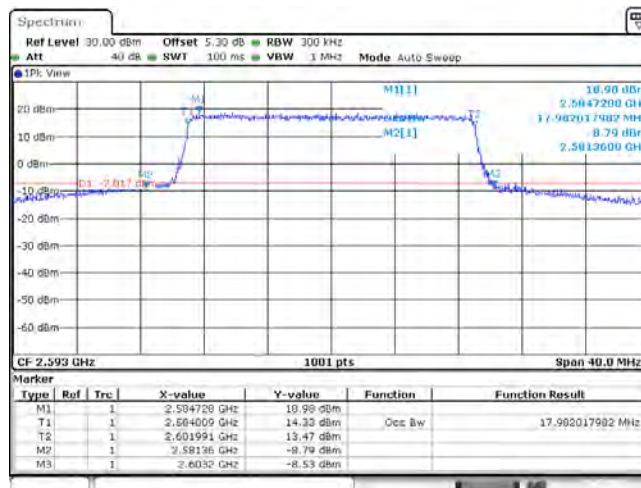
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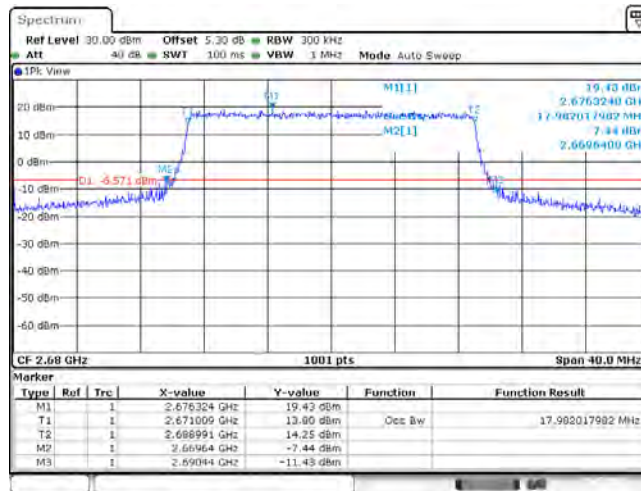
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

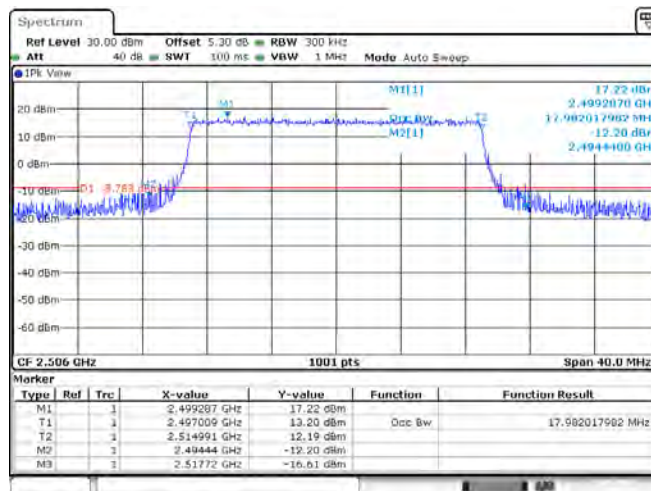
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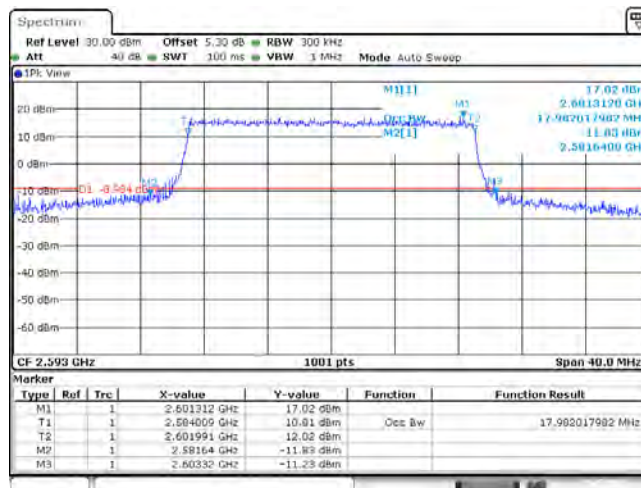
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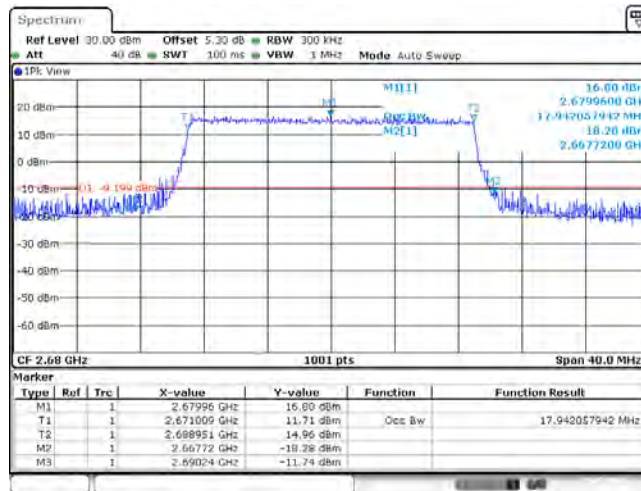
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

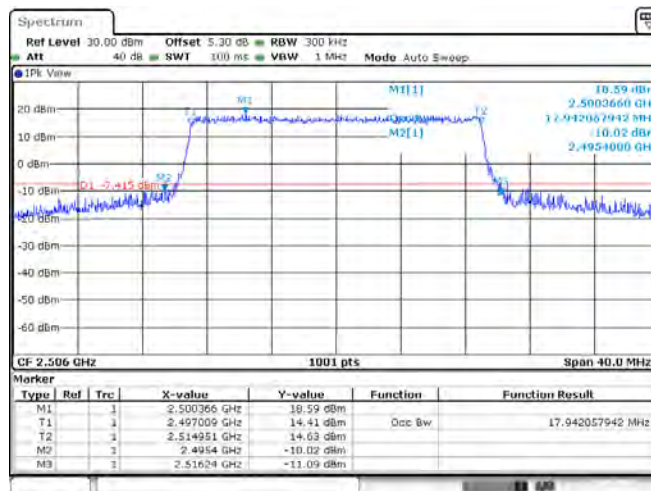
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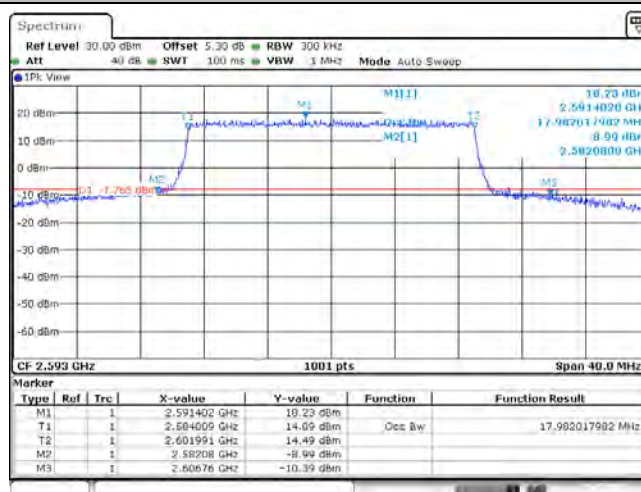
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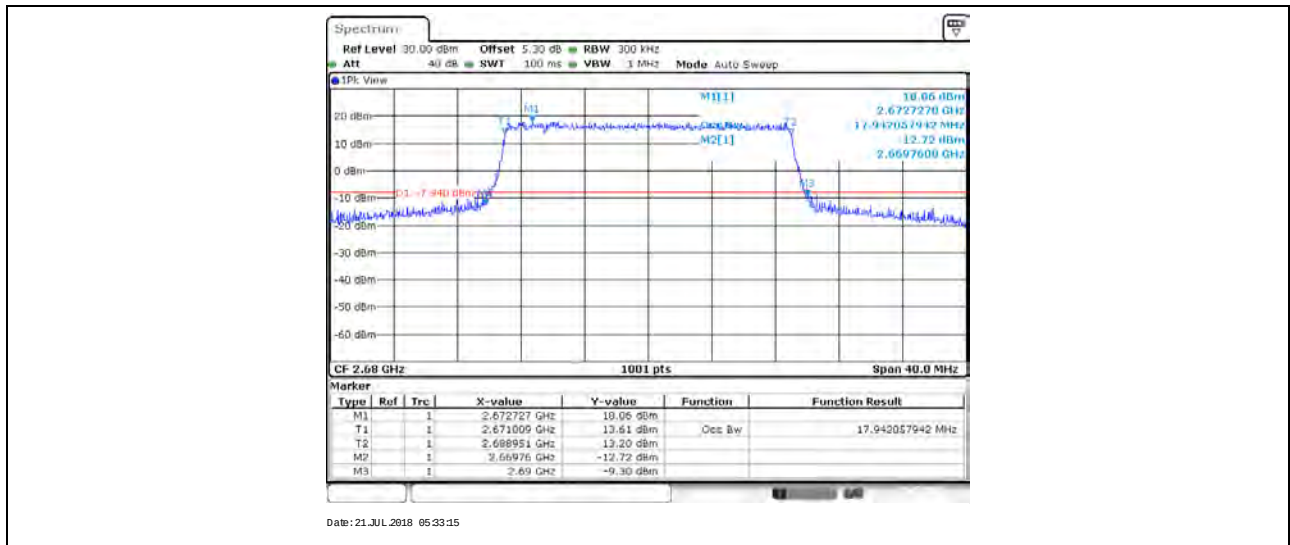
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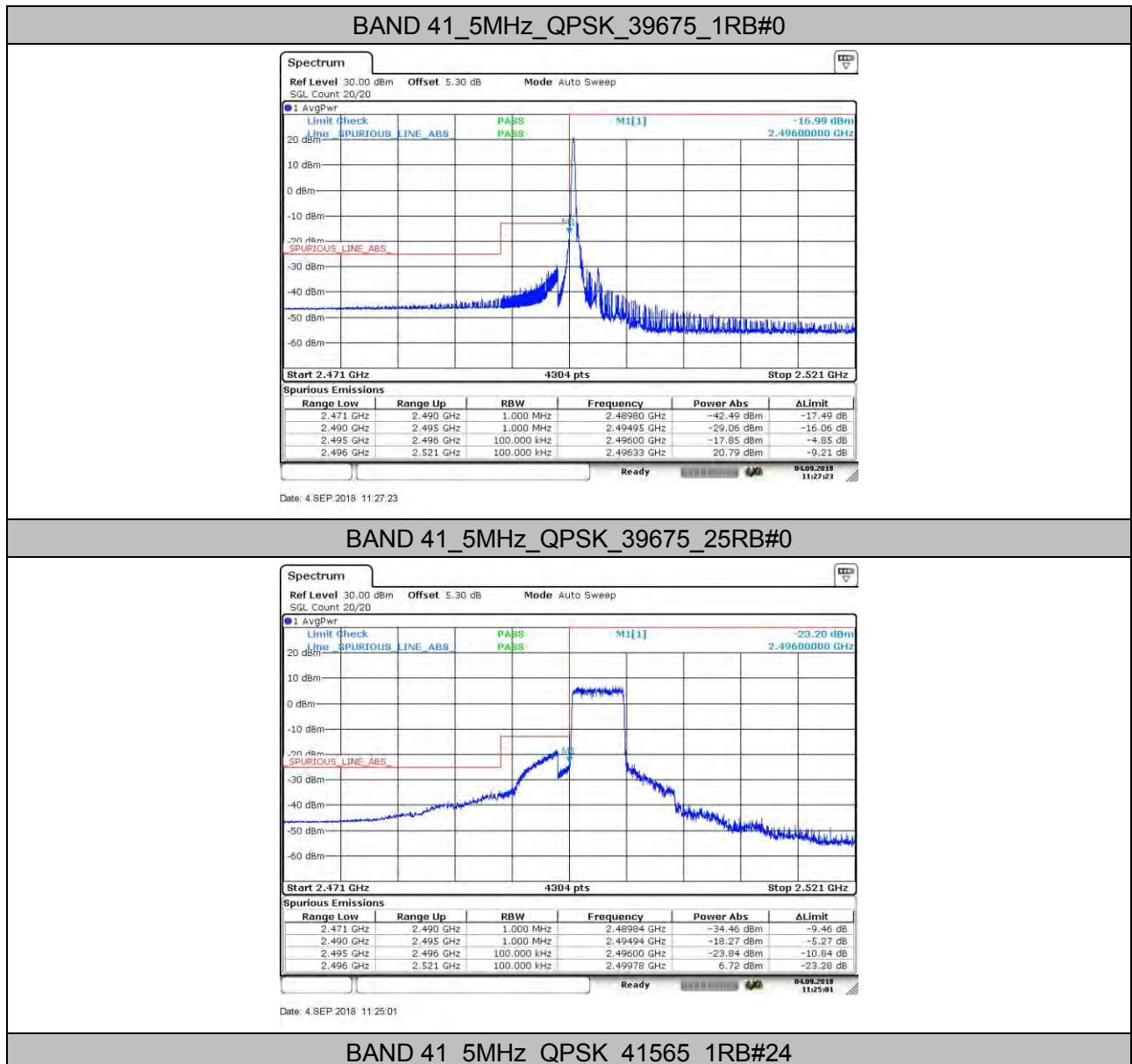
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5. Band Edge Compliance

5.1. Test Plots

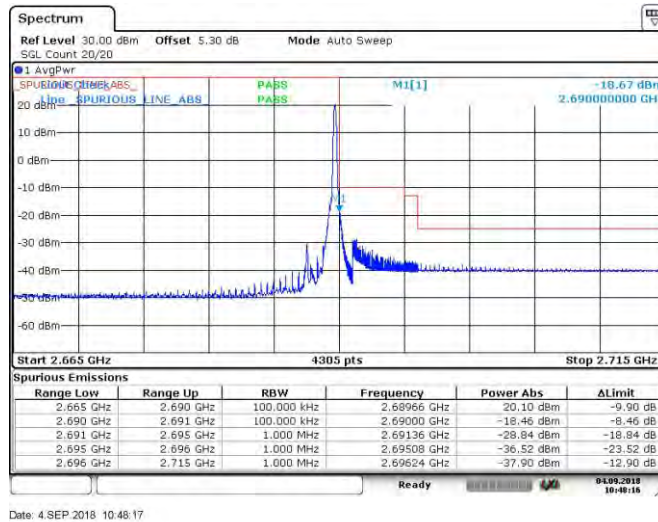




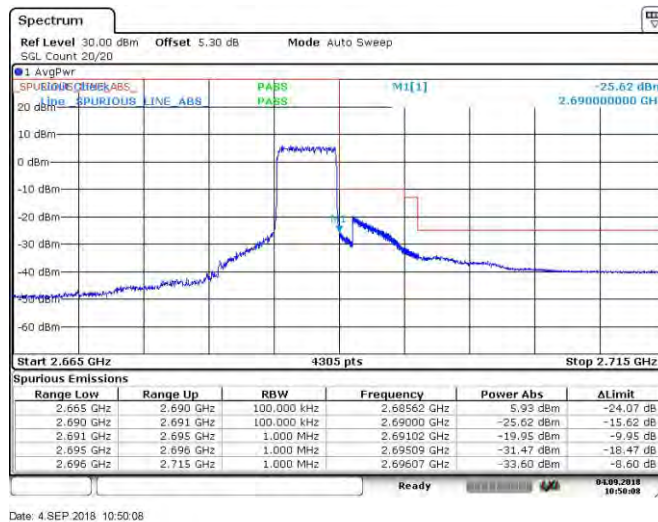
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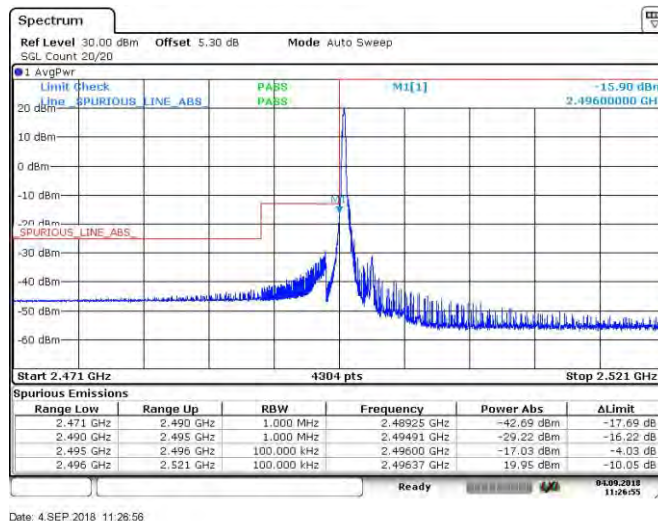
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BAND 41_5MHz_QPSK_41565_25RB#0



BAND 41_5MHz_16QAM_39675_1RB#0



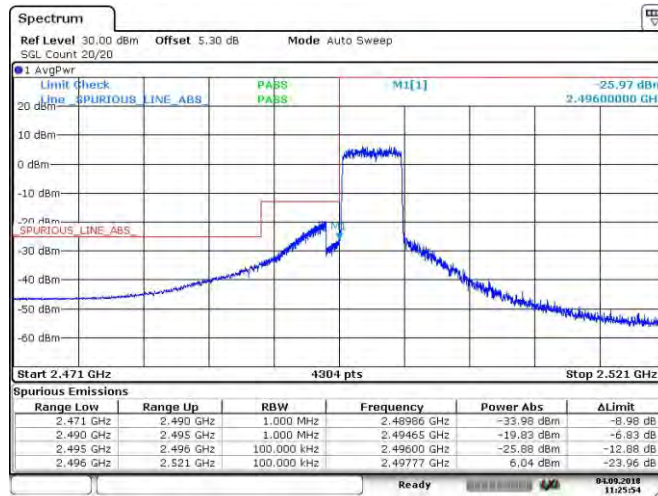
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

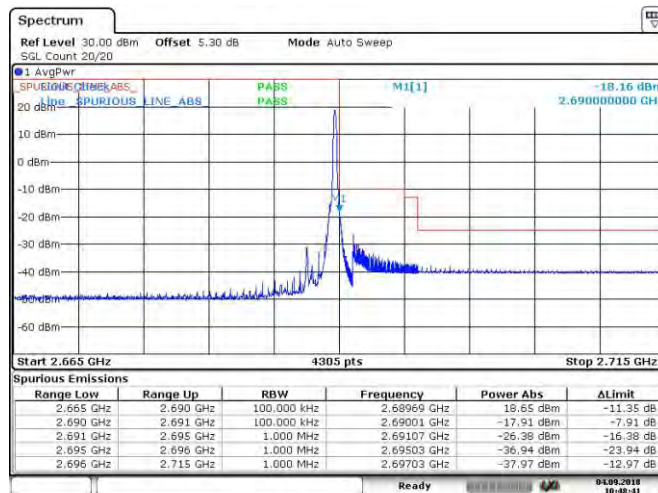
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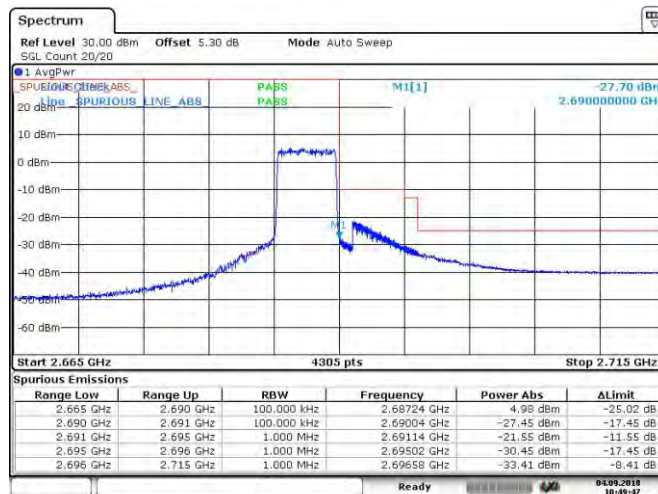
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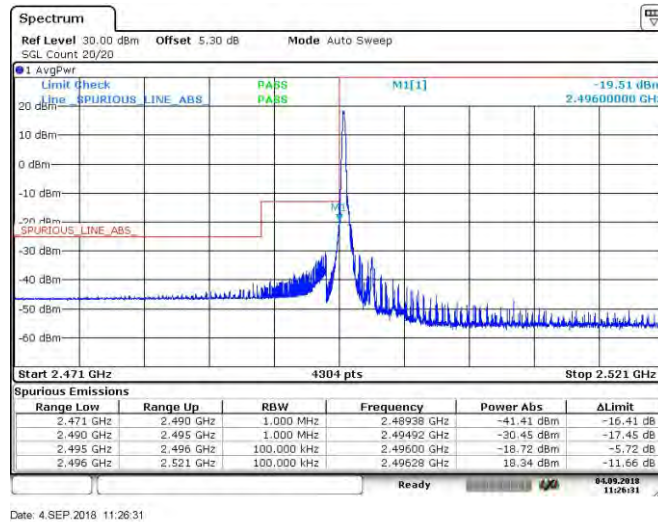
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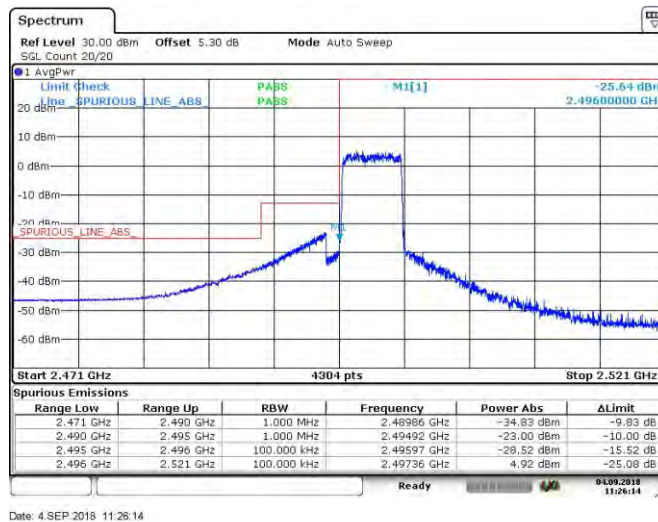
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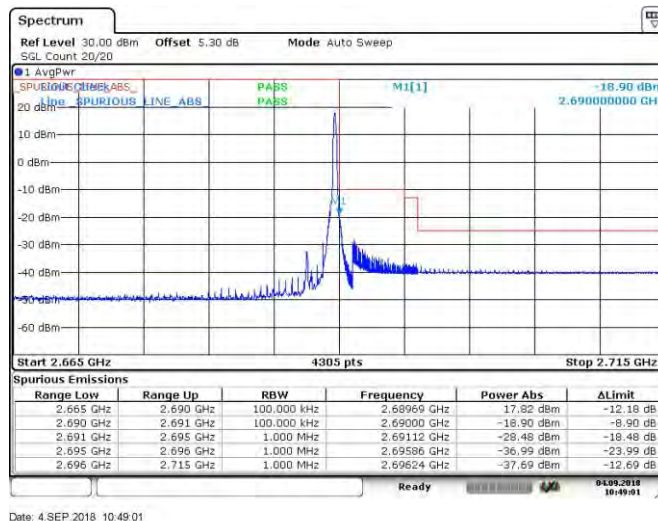
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BAND 41_5MHz_64QAM_39675_25RB#0



BAND 41_5MHz_64QAM_41565_1RB#24



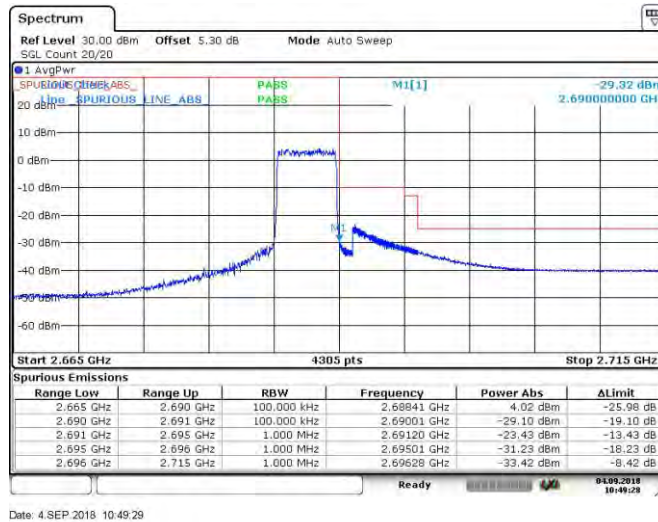
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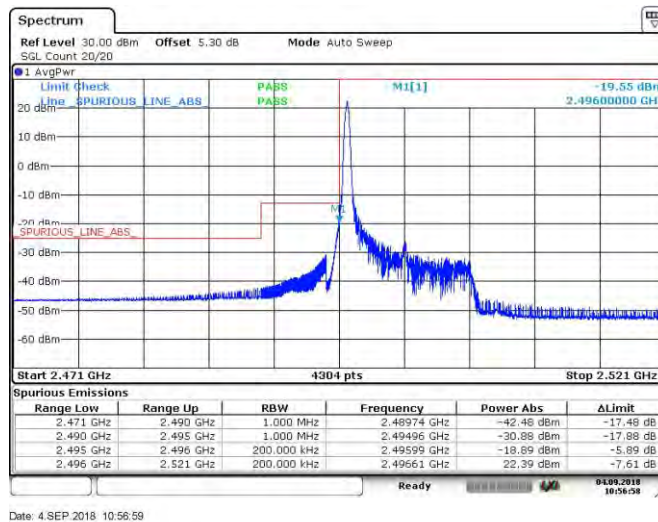
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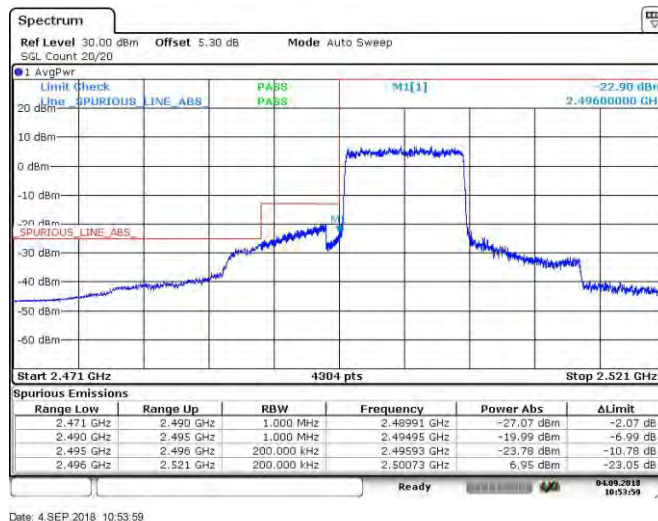
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BAND 41_10MHz_QPSK_39700_1RB#0



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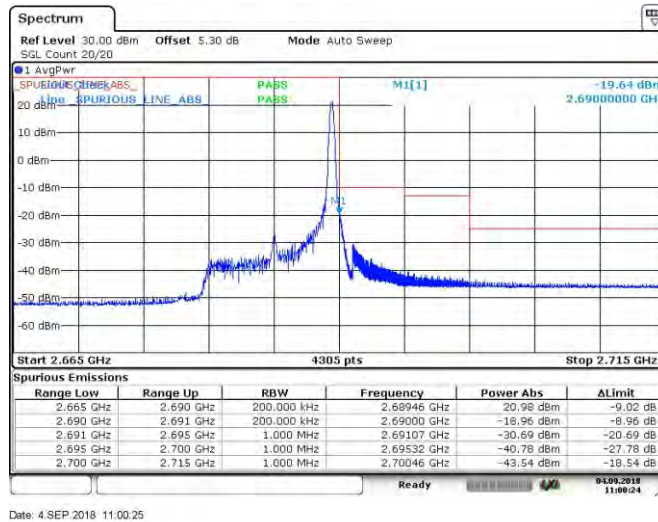
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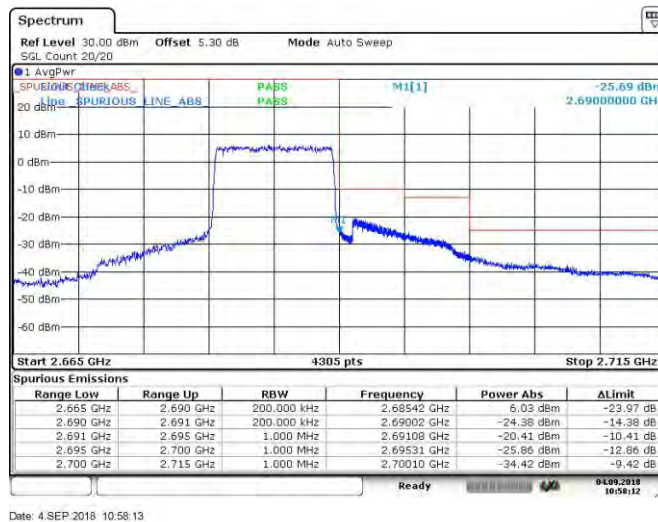
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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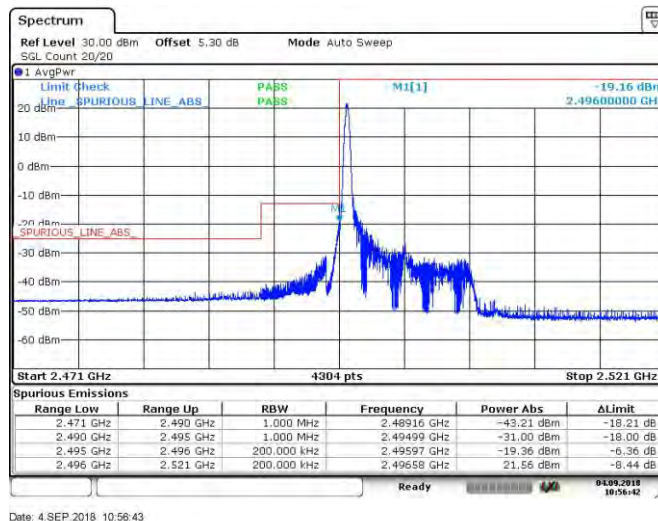
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BAND 41_10MHz_QPSK_41540_50RB#0



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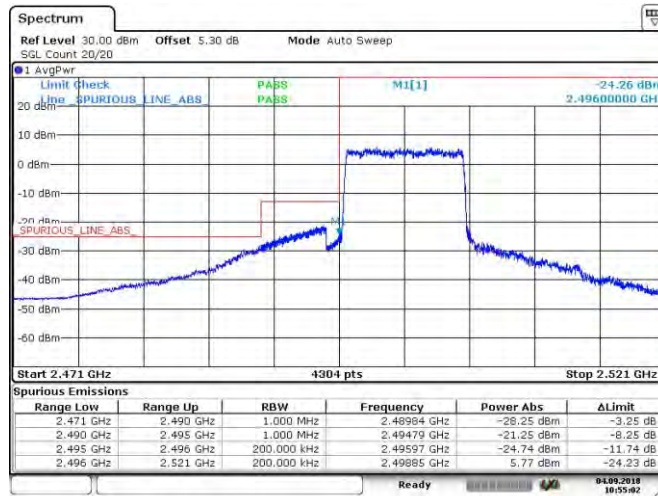
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

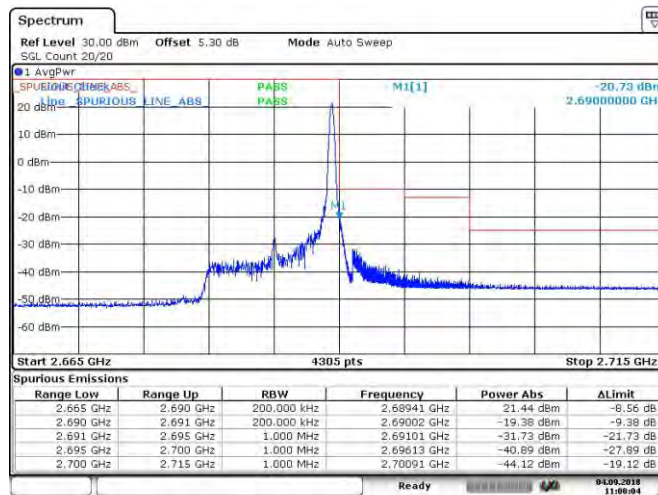
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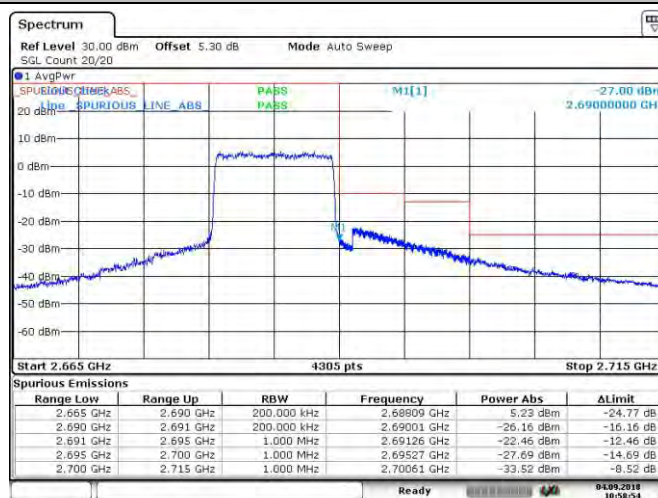
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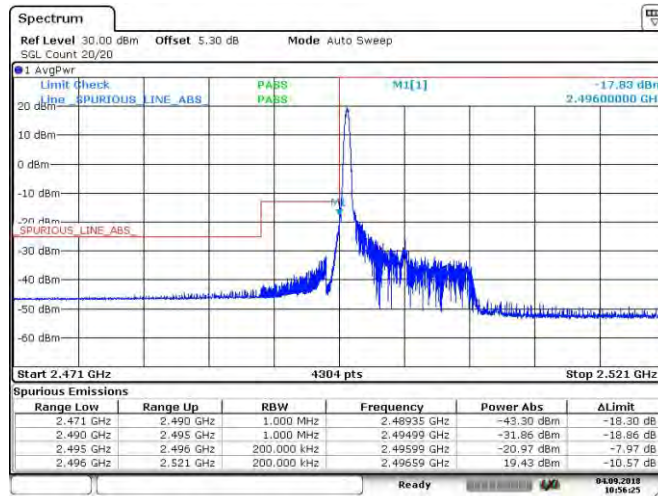
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

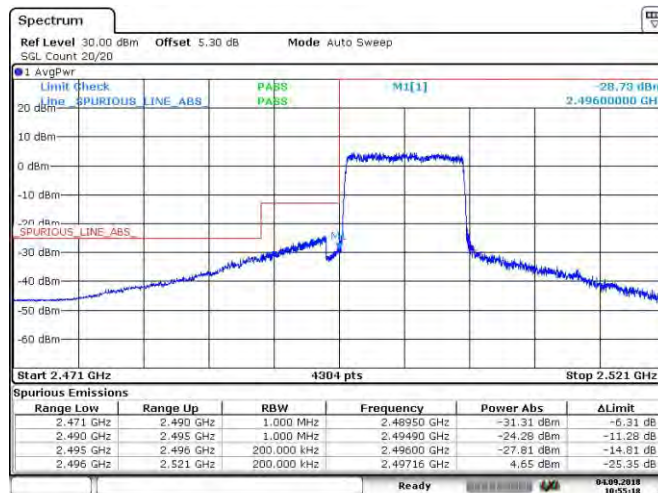
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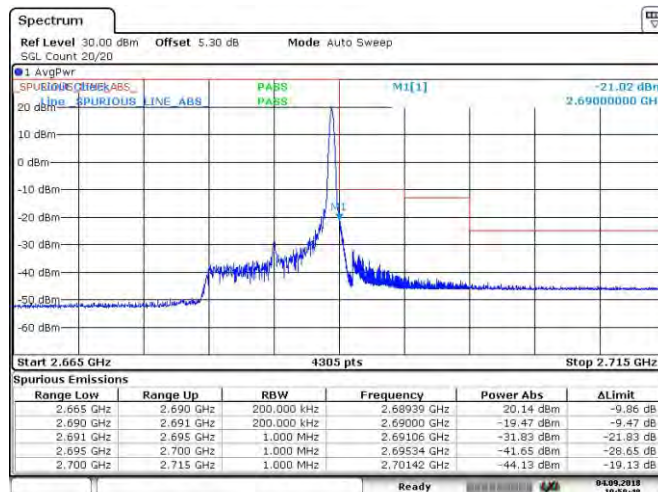
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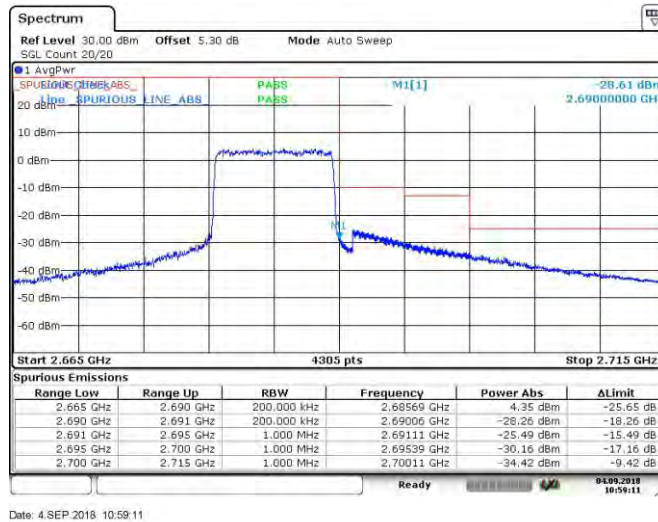
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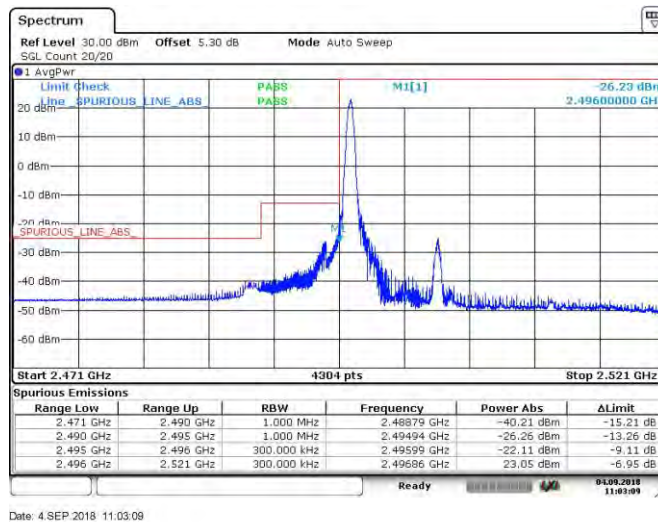
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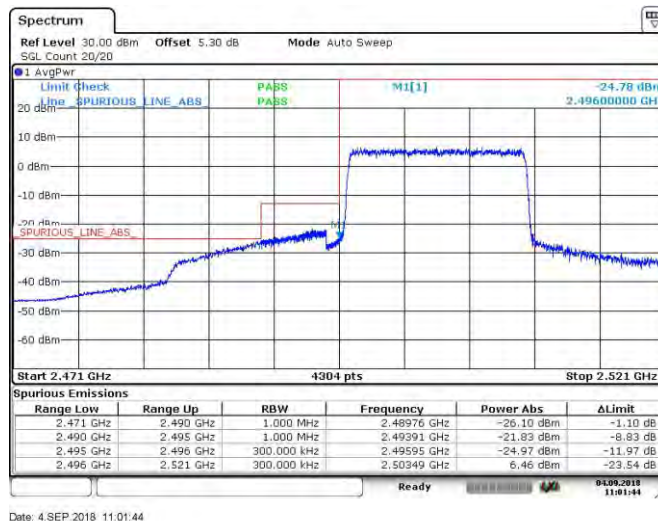
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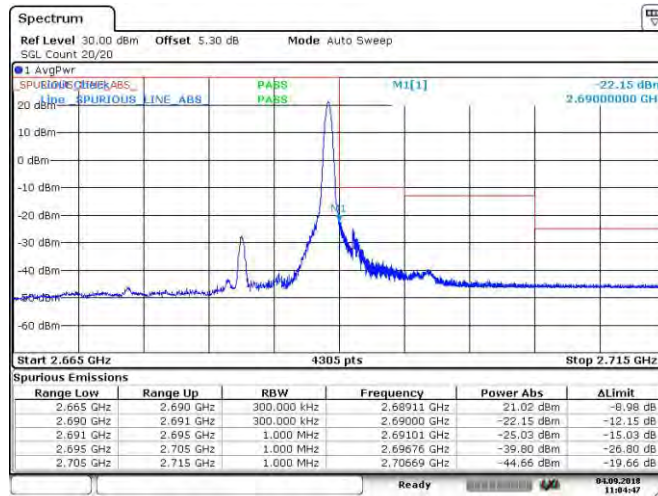
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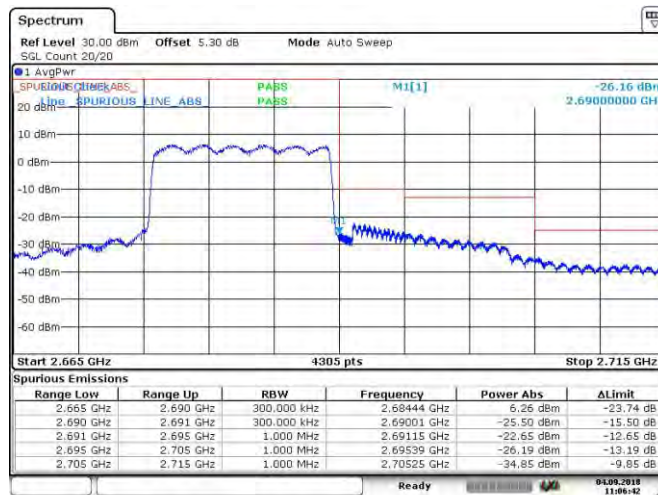
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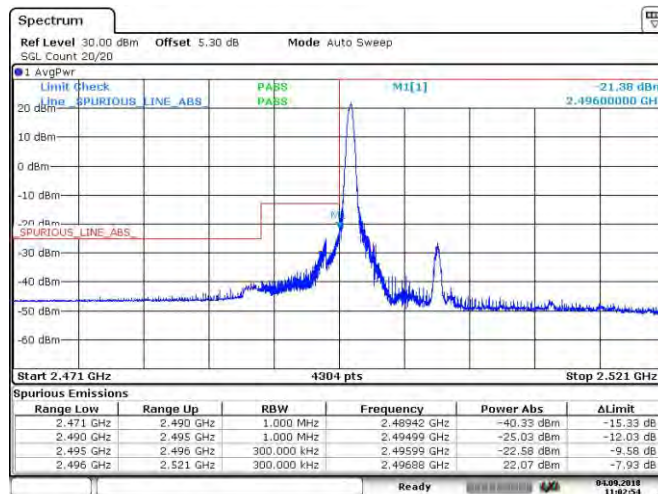
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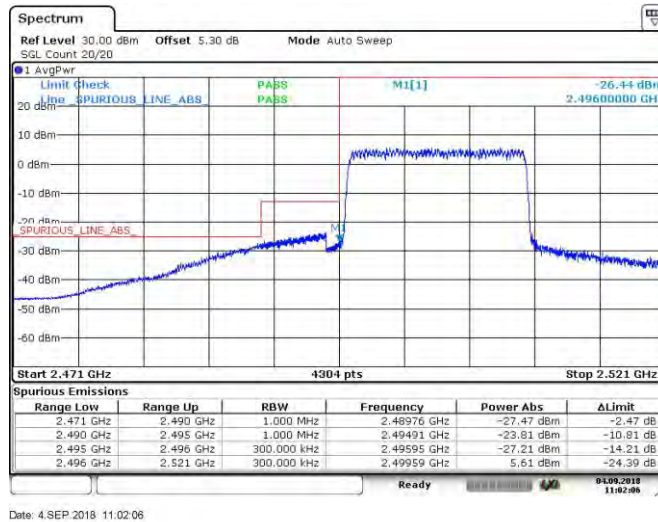
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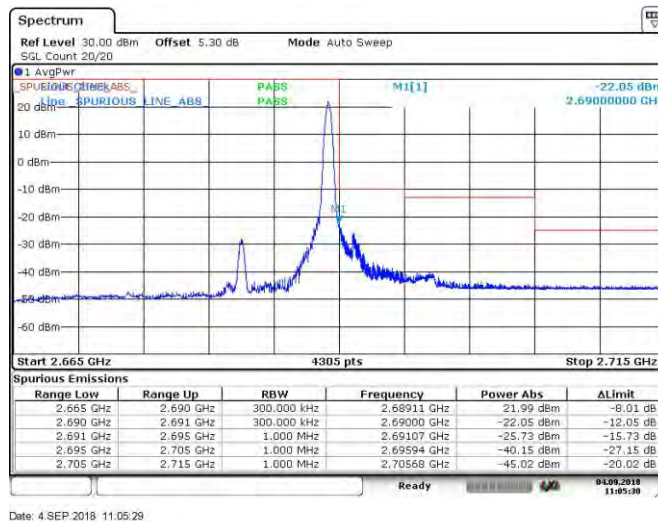
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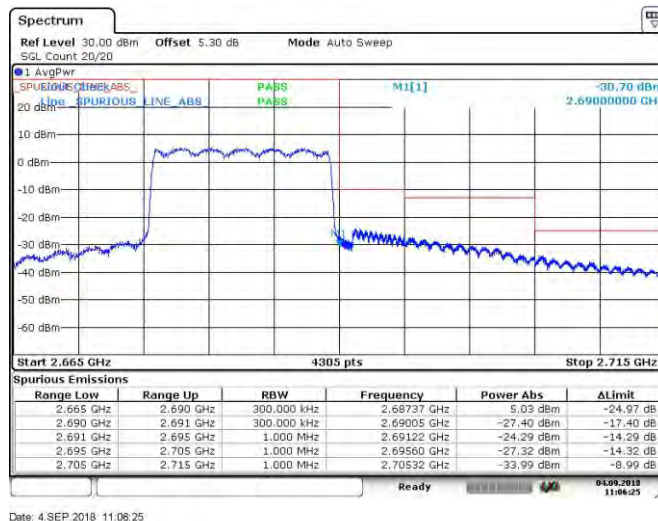
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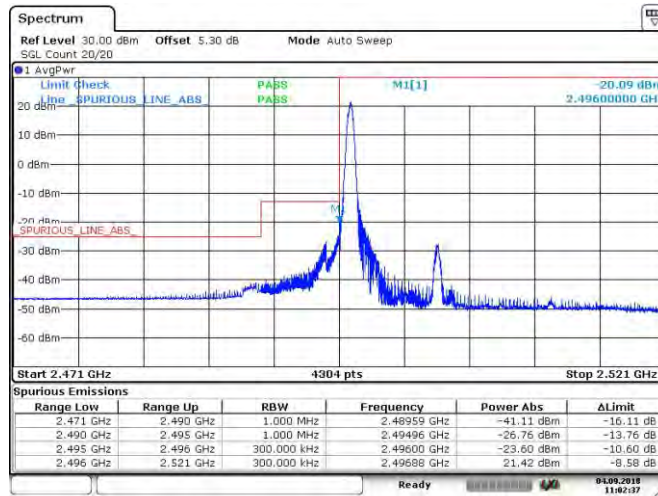
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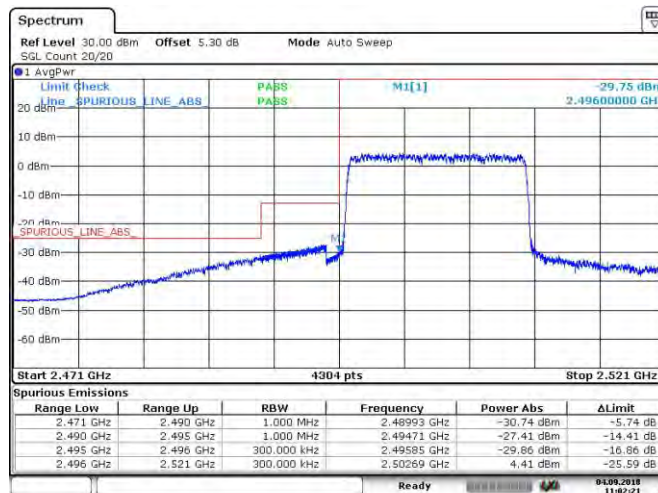
Report No.: SZEM180500437001

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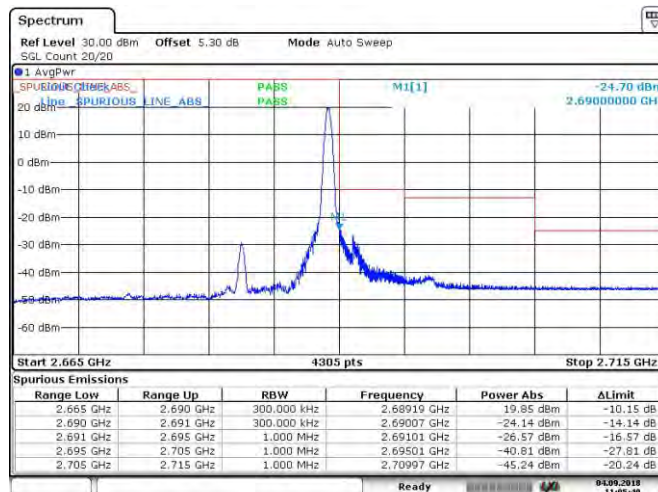
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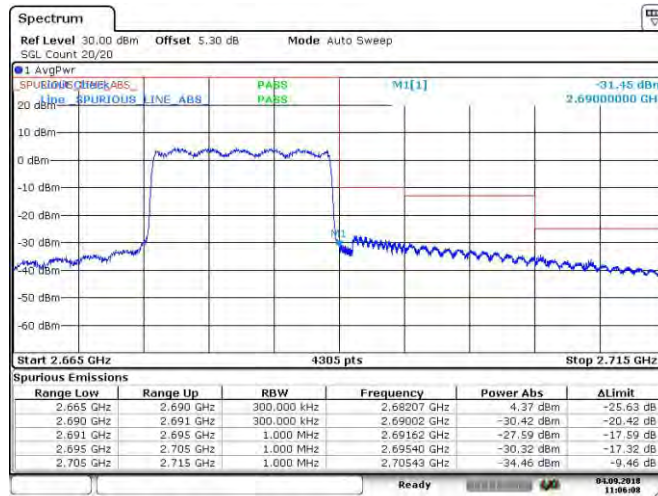
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

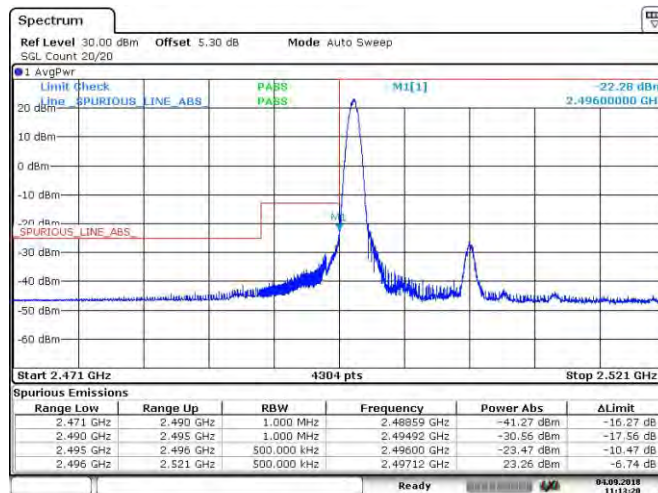
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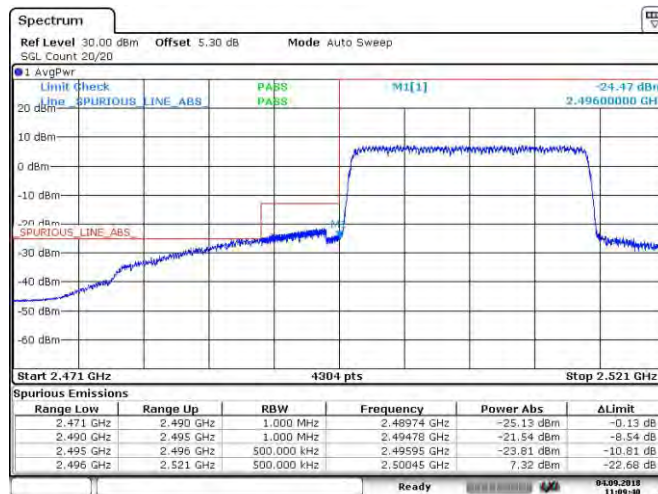
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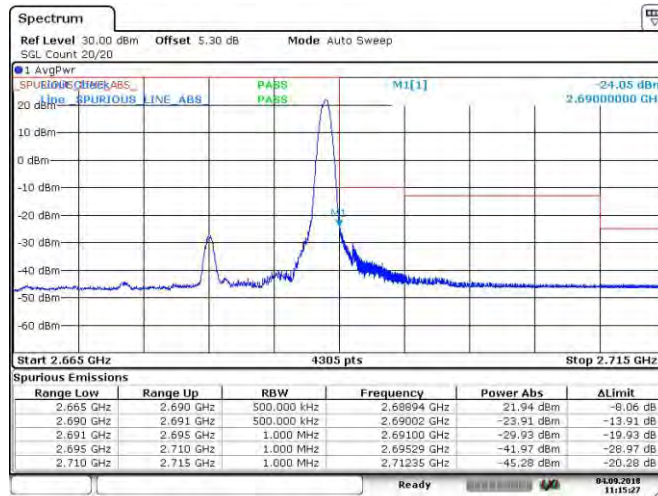
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

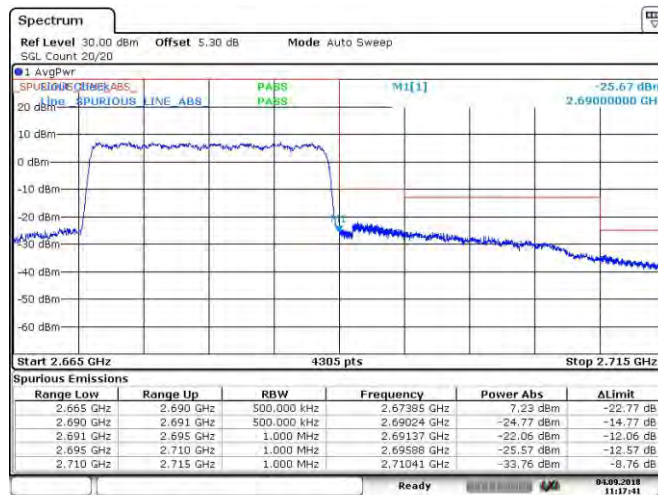
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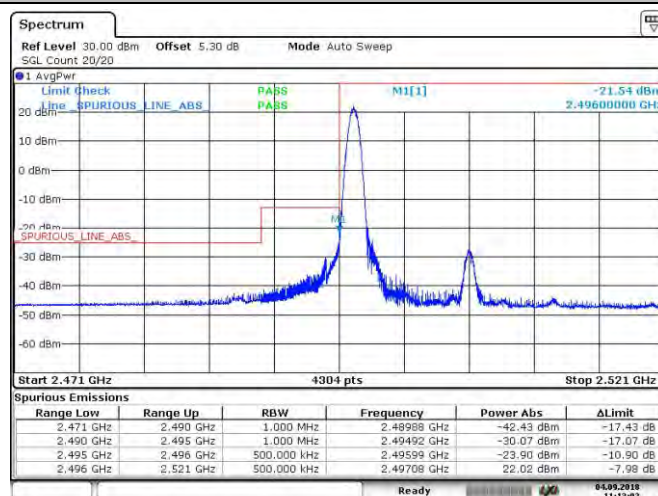
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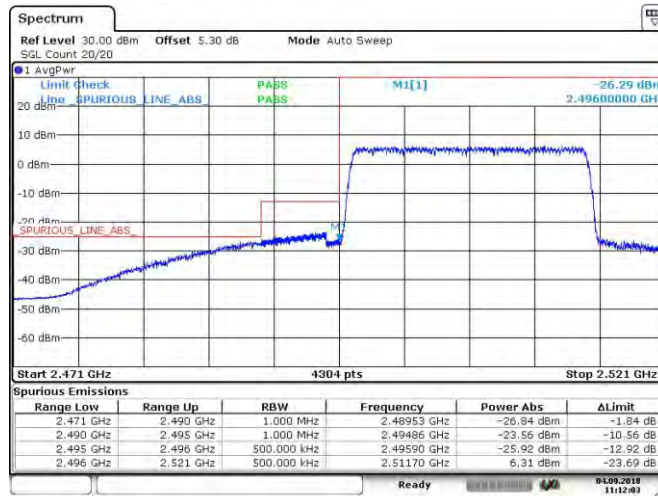
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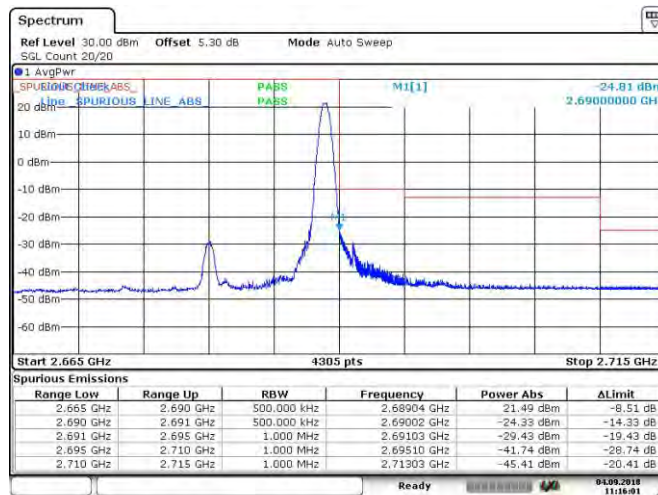
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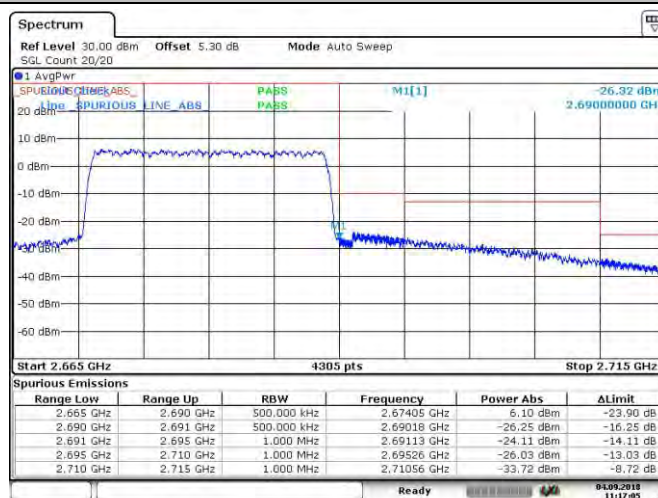
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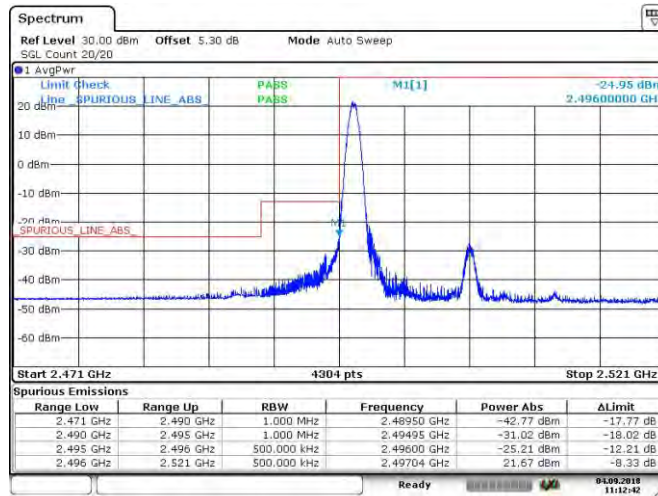
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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

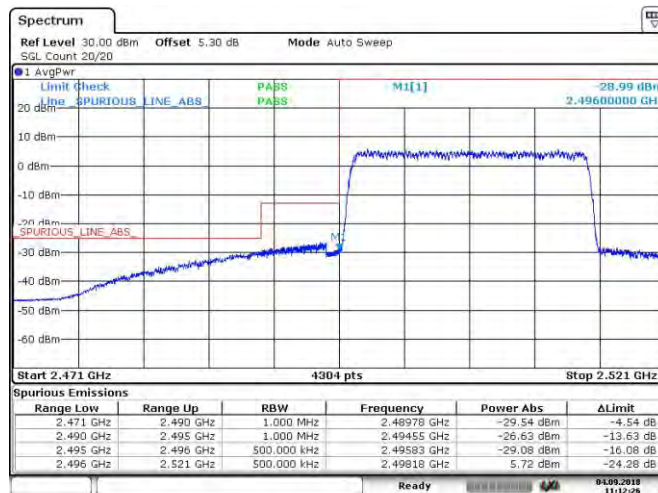
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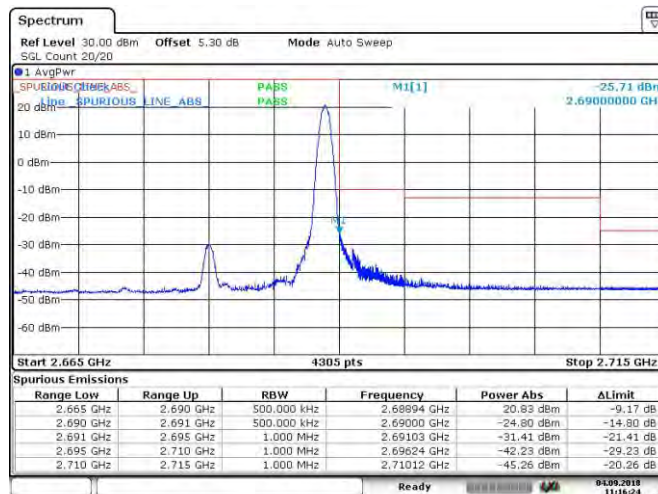
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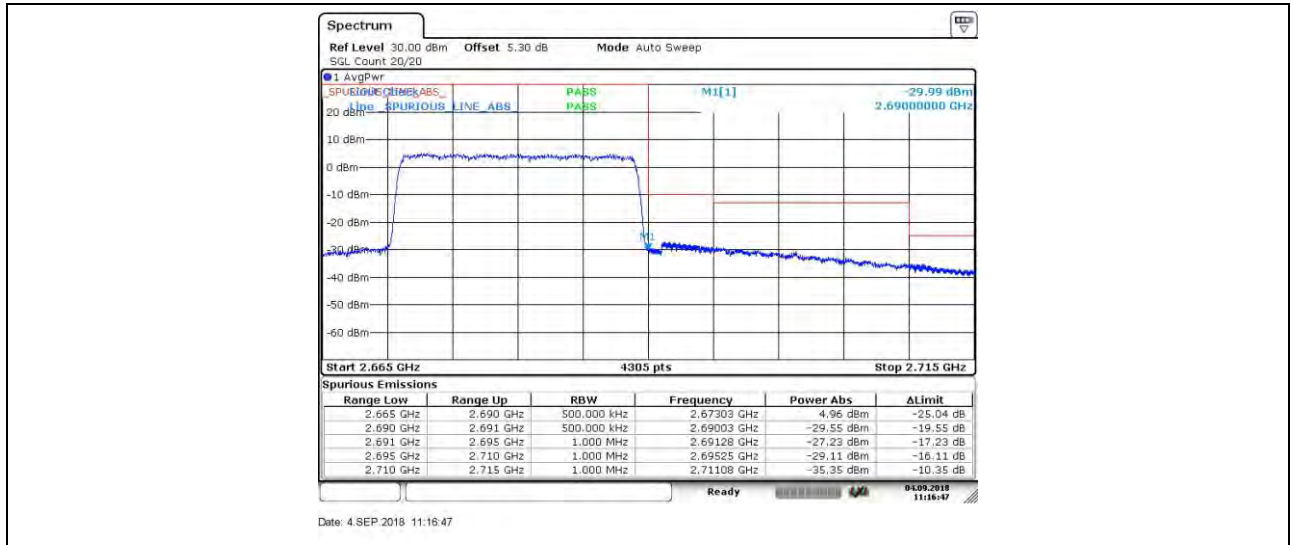
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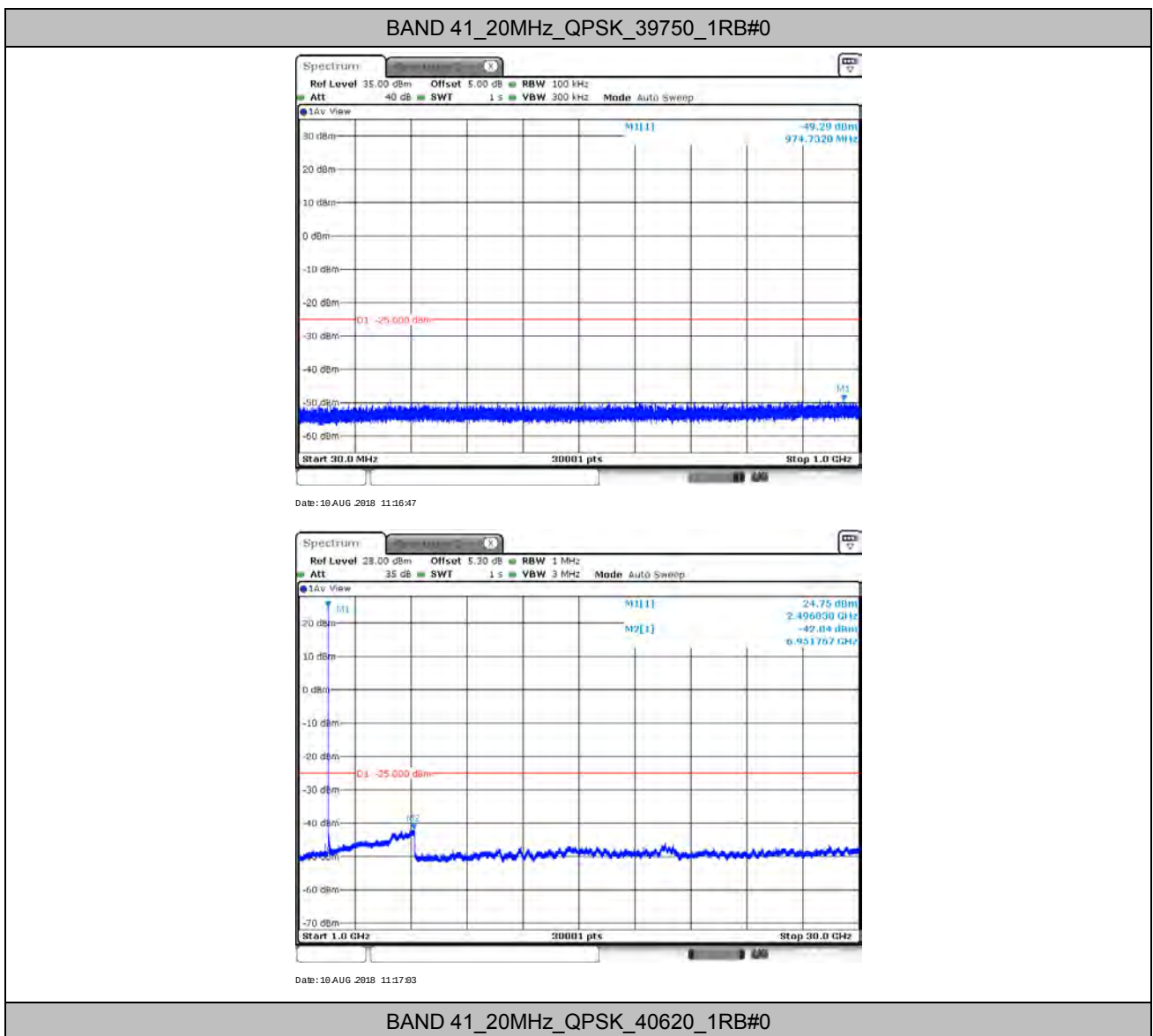


6. Spurious Emission at Antenna Terminal

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

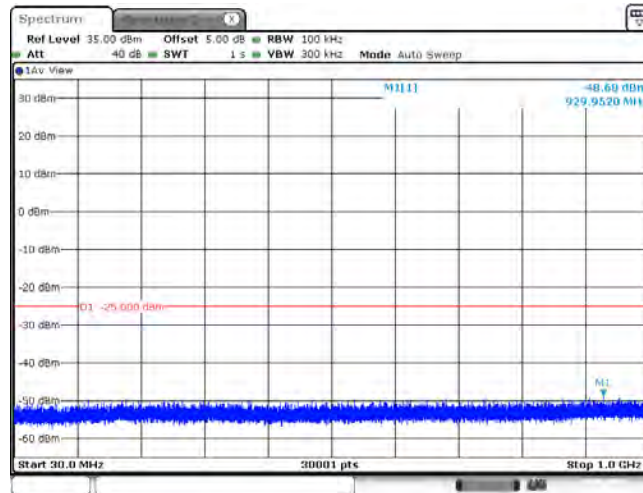




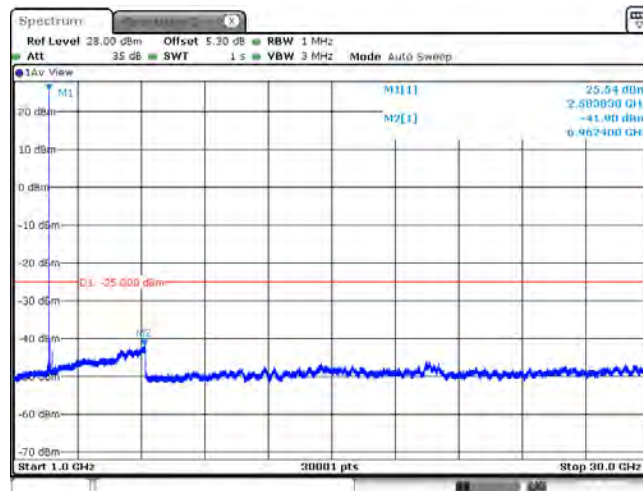
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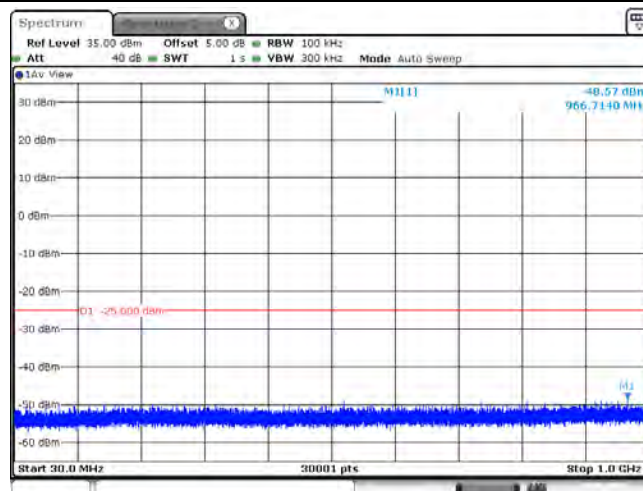


Date: 18 AUG 2018 11:18:43



Date: 18 AUG 2018 11:18:59

BAND 41_20MHz_QPSK_41490_1RB#0



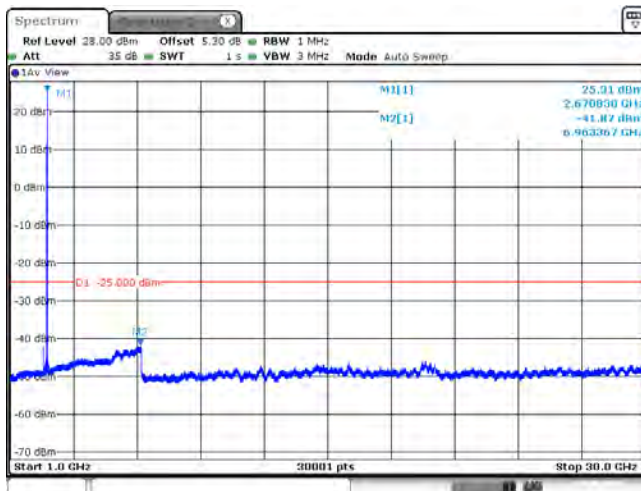
Date: 18 AUG 2018 11:28:29



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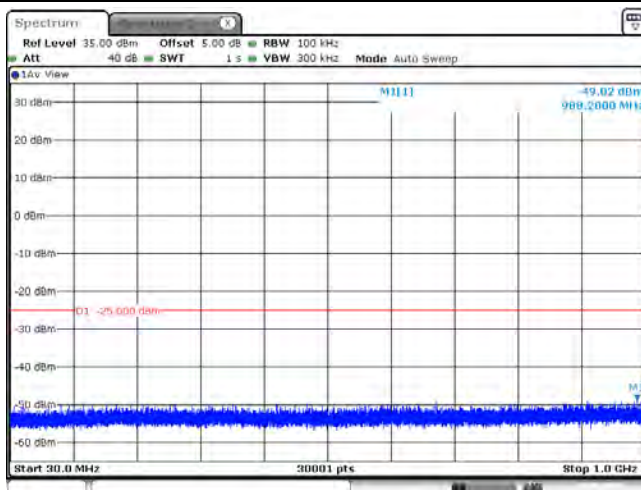
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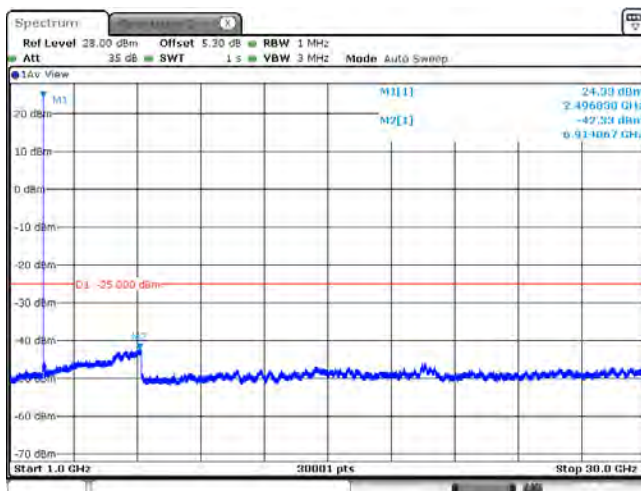


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BAND 41_20MHz_16QAM_39750_1RB#0



Date: 18 AUG 2018 11:17:22



Date: 18 AUG 2018 11:17:38

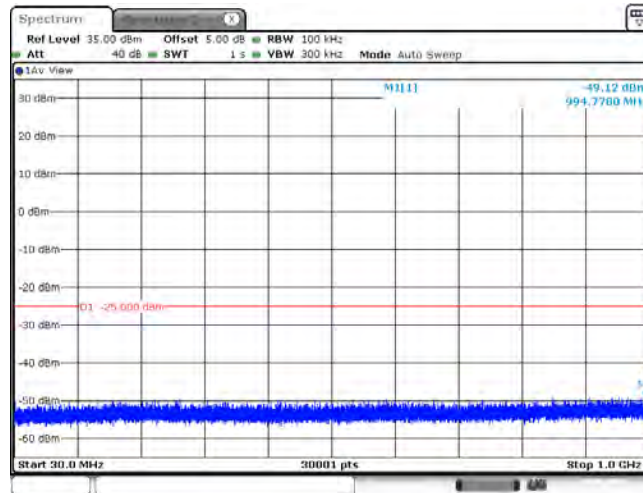
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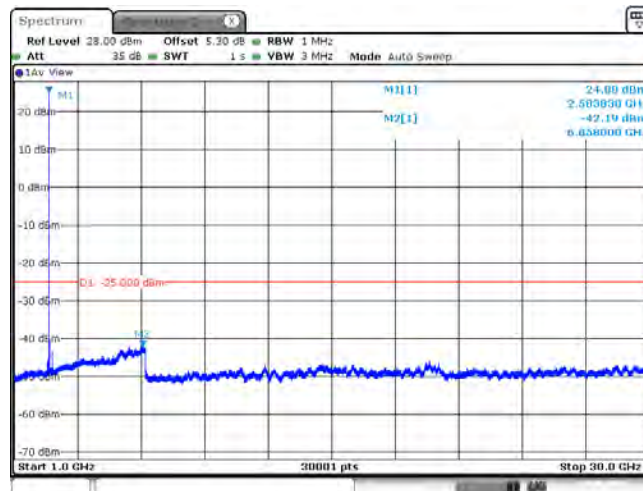
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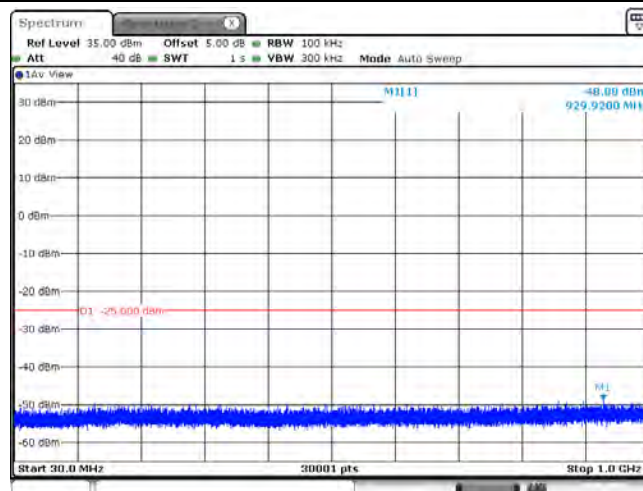


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Date: 18 AUG 2018 11:19:34

BAND 41_20MHz_16QAM_41490_1RB#0



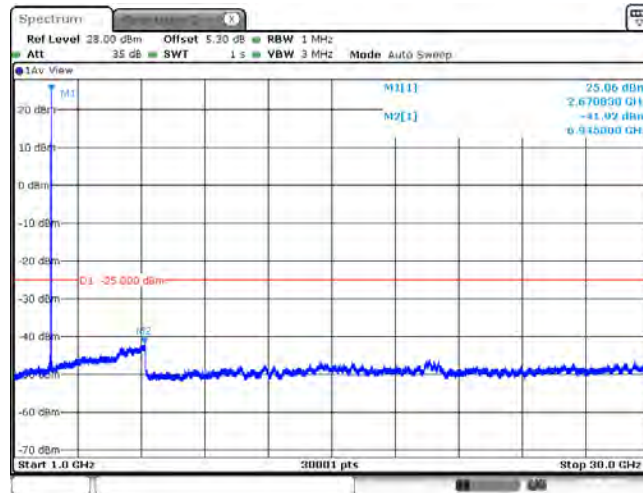
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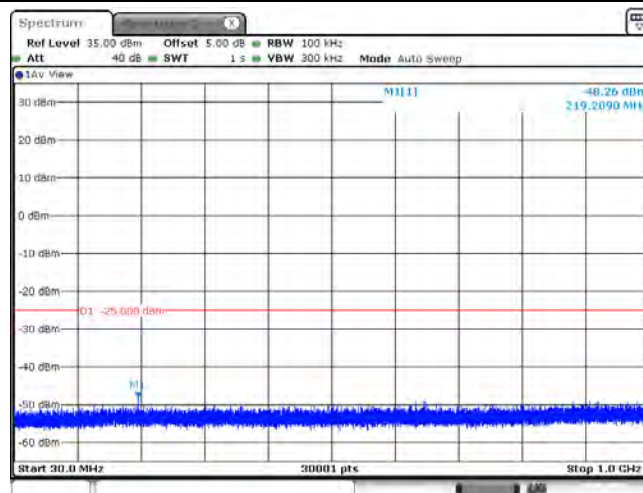
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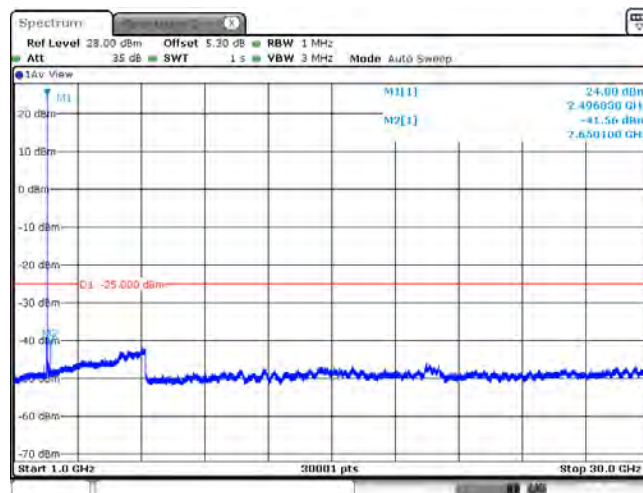


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BAND 41_20MHz_64QAM_39750_1RB#0



Date: 18 AUG 2018 11:18:08



Date: 18 AUG 2018 11:18:24

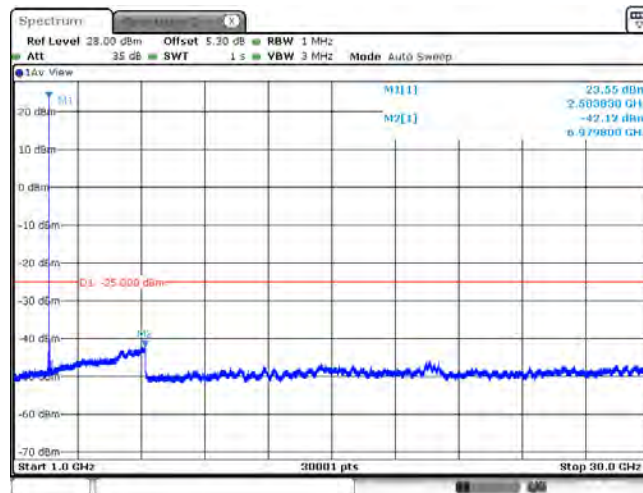
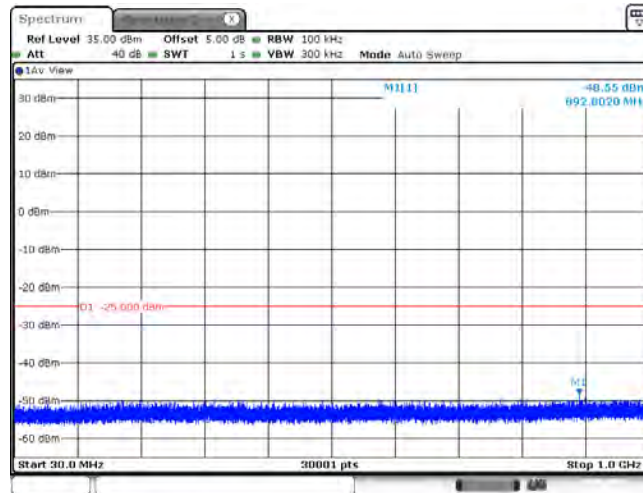
BAND 41_20MHz_64QAM_40620_1RB#0



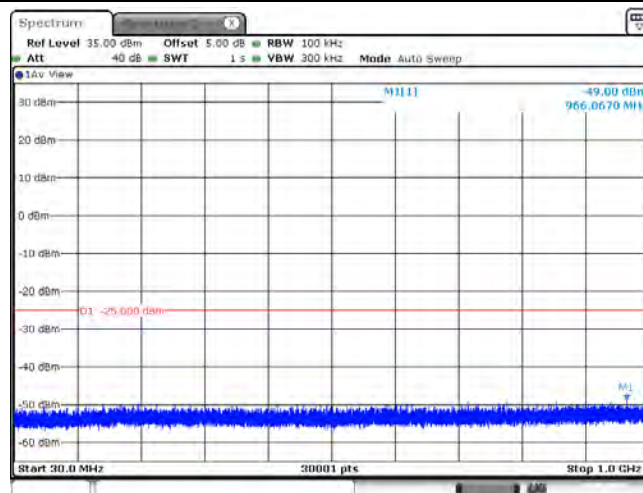
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BAND 41_20MHz_64QAM_41490_1RB#0

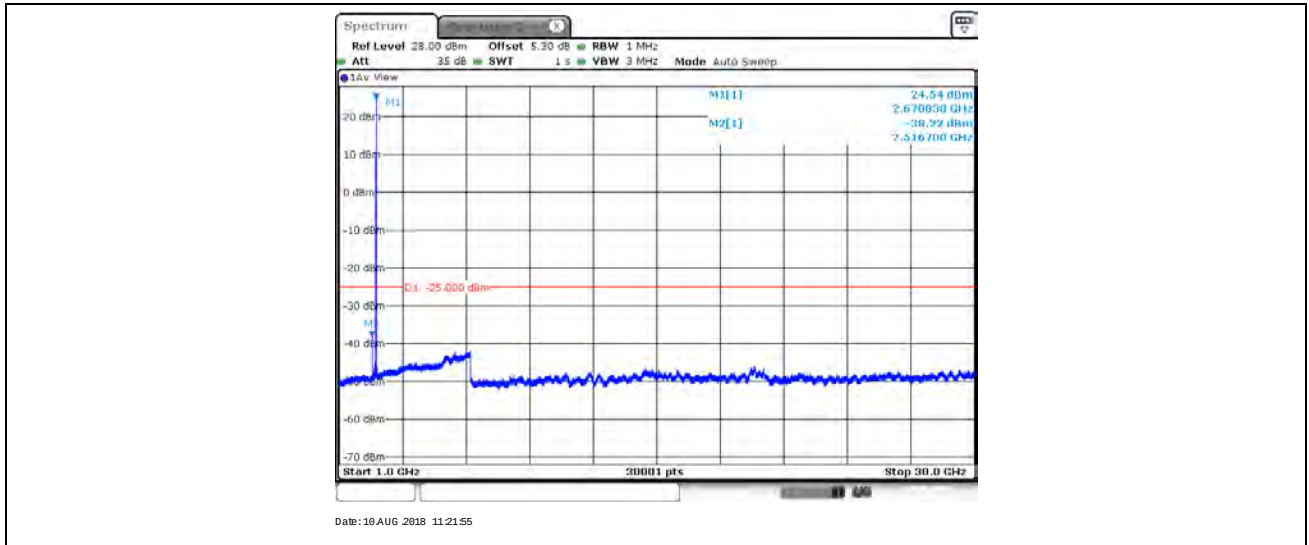




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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE BAND 41

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
65.000000	-81.97	-25.00	56.97	Vertical
104.250000	-85.03	-25.00	60.03	Vertical
359.750000	-85.80	-25.00	60.80	Vertical
4993.875000	-63.91	-25.00	38.91	Vertical
7490.850000	-64.38	-25.00	39.38	Vertical
9288.100000	-63.16	-25.00	38.16	Vertical
62.500000	-77.55	-25.00	52.55	Horizontal
104.300000	-89.24	-25.00	64.24	Horizontal
267.750000	-86.71	-25.00	61.71	Horizontal
5036.450000	-65.93	-25.00	40.93	Horizontal
7491.500000	-63.21	-25.00	38.21	Horizontal
11892.975000	-62.62	-25.00	37.62	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
64.800000	-81.42	-25.00	56.42	Vertical
125.000000	-87.43	-25.00	62.43	Vertical
334.400000	-86.44	-25.00	61.44	Vertical
5168.075000	-65.68	-25.00	40.68	Vertical
7066.075000	-64.27	-25.00	39.27	Vertical
10621.900000	-62.77	-25.00	37.77	Vertical
62.650000	-77.65	-25.00	52.65	Horizontal
104.300000	-88.37	-25.00	63.37	Horizontal
434.050000	-82.77	-25.00	57.77	Horizontal
4295.775000	-66.55	-25.00	41.55	Horizontal
6487.575000	-64.77	-25.00	39.77	Horizontal
9267.950000	-63.28	-25.00	38.28	Horizontal



7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.500000	-82.01	-25.00	57.01	Vertical
125.000000	-86.82	-25.00	61.82	Vertical
339.200000	-86.31	-25.00	61.31	Vertical
5341.950000	-62.44	-25.00	37.44	Vertical
7866.225000	-63.66	-25.00	38.66	Vertical
10589.725000	-63.27	-25.00	38.27	Vertical
56.400000	-77.59	-25.00	52.59	Horizontal
104.300000	-89.37	-25.00	64.37	Horizontal
262.650000	-87.77	-25.00	62.77	Horizontal
5341.950000	-62.92	-25.00	37.92	Horizontal
7951.700000	-63.56	-25.00	38.56	Horizontal
10599.150000	-63.27	-25.00	38.27	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	Voltage		Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
				RB Configure	Voltage [Vdc]					
BAND41	20MHz	QPSK	39750	100RB#0	VH	NT	-0.90	-0.000359	±2.5	PASS
				100RB#0	VL	NT	0.10	0.000040	±2.5	PASS
				100RB#0	VN	NT	-0.20	-0.000080	±2.5	PASS
			40620	100RB#0	VH	NT	1.90	0.000733	±2.5	PASS
				100RB#0	VL	NT	-0.60	-0.000231	±2.5	PASS
				100RB#0	VN	NT	-2.10	-0.000810	±2.5	PASS
			41490	100RB#0	VH	NT	4.20	0.001567	±2.5	PASS
				100RB#0	VL	NT	2.20	0.000821	±2.5	PASS
				100RB#0	VN	NT	0.20	0.000075	±2.5	PASS
		16QAM	39750	100RB#0	VH	NT	-0.50	-0.000200	±2.5	PASS
				100RB#0	VL	NT	-1.50	-0.000599	±2.5	PASS
				100RB#0	VN	NT	4.40	0.001756	±2.5	PASS
			40620	100RB#0	VH	NT	3.80	0.001465	±2.5	PASS
				100RB#0	VL	NT	2.30	0.000887	±2.5	PASS
				100RB#0	VN	NT	1.60	0.000617	±2.5	PASS
			41490	100RB#0	VH	NT	0.50	0.000187	±2.5	PASS
				100RB#0	VL	NT	-1.60	-0.000597	±2.5	PASS
				100RB#0	VN	NT	1.10	0.000410	±2.5	PASS
		64QAM	39750	100RB#0	VH	NT	4.90	0.001955	±2.5	PASS
				100RB#0	VL	NT	2.80	0.001117	±2.5	PASS
				100RB#0	VN	NT	1.10	0.000439	±2.5	PASS
			40620	100RB#0	VH	NT	1.30	0.000501	±2.5	PASS
				100RB#0	VL	NT	6.00	0.002314	±2.5	PASS
				100RB#0	VN	NT	4.00	0.001543	±2.5	PASS
			41490	100RB#0	VH	NT	0.90	0.000336	±2.5	PASS
				100RB#0	VL	NT	0.40	0.000149	±2.5	PASS
				100RB#0	VN	NT	-0.40	-0.000149	±2.5	PASS



8.2.Frequency Vs Temperature

BAND	Bandwidth	Modulation	Channel	Temperature						Verdict
				RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	
BAND41	20MHz	QPSK	39750	100RB#0	NV	0	-0.90	-0.000359	±2.5	PASS
				100RB#0	NV	10	1.90	0.000758	±2.5	PASS
				100RB#0	NV	20	0.80	0.000319	±2.5	PASS
				100RB#0	NV	-20	1.90	0.000758	±2.5	PASS
				100RB#0	NV	-30	2.50	0.000998	±2.5	PASS
			40620	100RB#0	NV	0	0.20	0.000077	±2.5	PASS
				100RB#0	NV	10	1.30	0.000501	±2.5	PASS
				100RB#0	NV	20	1.80	0.000694	±2.5	PASS
				100RB#0	NV	-20	-1.60	-0.000617	±2.5	PASS
				100RB#0	NV	-30	0.90	0.000347	±2.5	PASS
			41490	100RB#0	NV	0	-0.40	-0.000149	±2.5	PASS
				100RB#0	NV	10	1.30	0.000485	±2.5	PASS
				100RB#0	NV	20	1.30	0.000485	±2.5	PASS
				100RB#0	NV	-20	0.60	0.000224	±2.5	PASS
				100RB#0	NV	-30	-0.30	-0.000112	±2.5	PASS
		16QAM	39750	100RB#0	NV	0	4.30	0.001716	±2.5	PASS
				100RB#0	NV	10	2.00	0.000798	±2.5	PASS
				100RB#0	NV	20	2.70	0.001077	±2.5	PASS
				100RB#0	NV	-20	6.60	0.002634	±2.5	PASS
				100RB#0	NV	-30	2.50	0.000998	±2.5	PASS
			40620	100RB#0	NV	0	-1.10	-0.000424	±2.5	PASS
				100RB#0	NV	10	3.80	0.001465	±2.5	PASS
				100RB#0	NV	20	1.00	0.000386	±2.5	PASS
				100RB#0	NV	-20	1.60	0.000617	±2.5	PASS
				100RB#0	NV	-30	-3.00	-0.001157	±2.5	PASS
			41490	100RB#0	NV	0	1.70	0.000634	±2.5	PASS
				100RB#0	NV	10	3.80	0.001418	±2.5	PASS
				100RB#0	NV	20	0.20	0.000075	±2.5	PASS
				100RB#0	NV	-20	-0.20	-0.000075	±2.5	PASS
				100RB#0	NV	-30	1.20	0.000448	±2.5	PASS
		64QAM	39750	100RB#0	NV	0	-0.70	-0.000279	±2.5	PASS
				100RB#0	NV	10	2.80	0.001117	±2.5	PASS
				100RB#0	NV	20	3.40	0.001357	±2.5	PASS
				100RB#0	NV	-20	-0.30	-0.00012	±2.5	PASS
				100RB#0	NV	-30	1.60	0.000638	±2.5	PASS
			40620	100RB#0	NV	0	-0.10	-0.000039	±2.5	PASS



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				100RB#0	NV	10	-1.80	-0.000694	±2.5	PASS
				100RB#0	NV	20	1.00	0.000386	±2.5	PASS
				100RB#0	NV	-20	1.50	0.000578	±2.5	PASS
				100RB#0	NV	-30	1.20	0.000463	±2.5	PASS
			41490	100RB#0	NV	0	-0.50	-0.000187	±2.5	PASS
				100RB#0	NV	10	-3.80	-0.001418	±2.5	PASS
				100RB#0	NV	20	2.50	0.000933	±2.5	PASS
				100RB#0	NV	-20	4.80	0.001791	±2.5	PASS
				100RB#0	NV	-30	2.50	0.000933	±2.5	PASS

The End