



Appendix B

E-UTRA Band 2



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	22.18	21.18	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.16	21.16	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.18	21.18	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	22.22	21.22	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#2	22.14	21.14	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	22.22	21.22	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.30	20.30	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.38	21.38	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.42	21.42	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.39	21.39	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.43	21.43	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#2	22.43	21.43	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.41	21.41	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.45	20.45	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.40	21.40	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.56	21.56	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.39	21.39	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.50	21.50	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#2	22.50	21.50	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	22.54	21.54	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.53	20.53	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.61	20.61	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.56	20.56	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.48	20.48	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	21.17	20.17	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#2	21.14	20.14	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.23	20.23	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.49	19.49	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.78	20.78	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.78	20.78	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.46	20.46	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.51	20.51	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#2	21.48	20.48	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.34	20.34	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.61	19.61	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.84	20.84	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.76	20.76	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.65	20.65	33.00	PASS



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Band2	1.4MHz	16QAM	19193	3RB#0	21.34	20.34	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#2	21.55	20.55	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	21.48	20.48	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.72	19.72	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.26	21.26	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#7	22.44	21.44	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.25	21.25	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.22	20.22	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#0	21.26	20.26	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.30	20.30	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.27	20.27	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.38	21.38	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#7	22.63	21.63	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.50	21.50	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.53	20.53	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.61	20.61	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.46	20.46	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.54	20.54	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.51	21.51	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#7	22.61	21.61	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.52	21.52	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.61	20.61	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.60	20.60	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#7	21.59	20.59	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.54	20.54	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.69	20.69	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#7	21.61	20.61	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.58	20.58	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.37	19.37	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.36	19.36	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#7	20.37	19.37	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.18	19.18	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.87	20.87	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#7	21.81	20.81	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.83	20.83	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.56	19.56	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#0	20.64	19.64	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.64	19.64	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.38	19.38	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.88	20.88	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#7	21.76	20.76	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.65	20.65	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.39	19.39	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.51	19.51	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#7	20.54	19.54	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.72	19.72	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.12	21.12	33.00	PASS



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Band2	5MHz	QPSK	18625	1RB#13	22.33	21.33	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.20	21.20	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.19	20.19	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.28	20.28	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#13	21.27	20.27	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.21	20.21	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.37	21.37	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#13	22.49	21.49	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.24	21.24	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.51	20.51	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.55	20.55	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.54	20.54	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.45	20.45	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.50	21.50	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#13	22.49	21.49	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.47	21.47	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.55	20.55	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.72	20.72	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.54	20.54	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.52	20.52	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.51	20.51	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#13	21.66	20.66	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.52	20.52	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.19	19.19	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.25	19.25	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#13	20.19	19.19	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.28	19.28	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.69	20.69	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#13	21.89	20.89	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.80	20.80	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.44	19.44	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.59	19.59	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#13	20.40	19.40	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.40	19.40	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.86	20.86	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#13	21.94	20.94	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.69	20.69	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.50	19.50	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.56	19.56	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#13	20.46	19.46	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.53	19.53	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.14	21.14	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#25	22.22	21.22	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.26	21.26	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.32	20.32	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#13	21.24	20.24	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.26	20.26	33.00	PASS



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Band2	10MHz	QPSK	18650	50RB#0	21.27	20.27	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.34	21.34	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#25	22.52	21.52	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.26	21.26	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.48	20.48	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#13	21.55	20.55	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.62	20.62	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.49	20.49	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.37	21.37	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#25	22.57	21.57	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.34	21.34	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.54	20.54	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#13	21.62	20.62	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.70	20.70	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.57	20.57	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.52	20.52	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#25	21.77	20.77	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.55	20.55	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#0	20.22	19.22	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#13	20.29	19.29	33.00	PASS
Band2	10MHz	16QAM	18650	25RB#25	20.35	19.35	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.38	19.38	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.73	20.73	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#25	21.70	20.70	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.54	20.54	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#0	20.48	19.48	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#13	20.57	19.57	33.00	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.61	19.61	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.54	19.54	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.78	20.78	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#25	21.75	20.75	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.59	20.59	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#0	20.54	19.54	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#13	20.63	19.63	33.00	PASS
Band2	10MHz	16QAM	19150	25RB#25	20.66	19.66	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.56	19.56	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.40	21.40	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.47	21.47	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.40	21.40	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#0	21.45	20.45	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#18	21.49	20.49	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#39	21.68	20.68	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.61	20.61	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.36	21.36	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.50	21.50	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.38	21.38	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#0	21.43	20.43	33.00	PASS



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Band2	15MHz	QPSK	18900	36RB#18	21.49	20.49	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#39	21.51	20.51	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.47	20.47	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.43	21.43	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.52	21.52	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.43	21.43	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#0	21.51	20.51	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#18	21.54	20.54	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#39	21.76	20.76	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.64	20.64	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.56	20.56	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.81	20.81	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.47	20.47	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#0	20.46	19.46	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#18	20.55	19.55	33.00	PASS
Band2	15MHz	16QAM	18675	36RB#39	20.57	19.57	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.57	19.57	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.52	20.52	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.65	20.65	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.61	20.61	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#0	20.47	19.47	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#18	20.40	19.40	33.00	PASS
Band2	15MHz	16QAM	18900	36RB#39	20.48	19.48	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.48	19.48	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.59	20.59	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.84	20.84	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.55	20.55	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#0	20.50	19.50	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#18	20.61	19.61	33.00	PASS
Band2	15MHz	16QAM	19125	36RB#39	20.65	19.65	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.59	19.59	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.01	21.01	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#50	22.21	21.21	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.02	21.02	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.20	20.20	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.39	20.39	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.45	20.45	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.33	20.33	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	21.99	20.99	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#50	22.53	21.53	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.06	21.06	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.39	20.39	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.58	20.58	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.43	20.43	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.57	20.57	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.12	21.12	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#50	22.65	21.65	33.00	PASS



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Band2	20MHz	QPSK	19100	1RB#99	22.18	21.18	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.53	20.53	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#25	21.53	20.53	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.56	20.56	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.71	20.71	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.05	20.05	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#50	21.59	20.59	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.46	20.46	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#0	20.24	19.24	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#25	20.38	19.38	33.00	PASS
Band2	20MHz	16QAM	18700	50RB#50	20.44	19.44	33.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.41	19.41	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.41	20.41	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#50	21.78	20.78	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.59	20.59	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#0	20.46	19.46	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#25	20.57	19.57	33.00	PASS
Band2	20MHz	16QAM	18900	50RB#50	20.46	19.46	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.44	19.44	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.38	20.38	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#50	21.87	20.87	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.40	20.40	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#0	20.67	19.67	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#25	20.67	19.67	33.00	PASS
Band2	20MHz	16QAM	19100	50RB#50	20.65	19.65	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.64	19.64	33.00	PASS

Remark:

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

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

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



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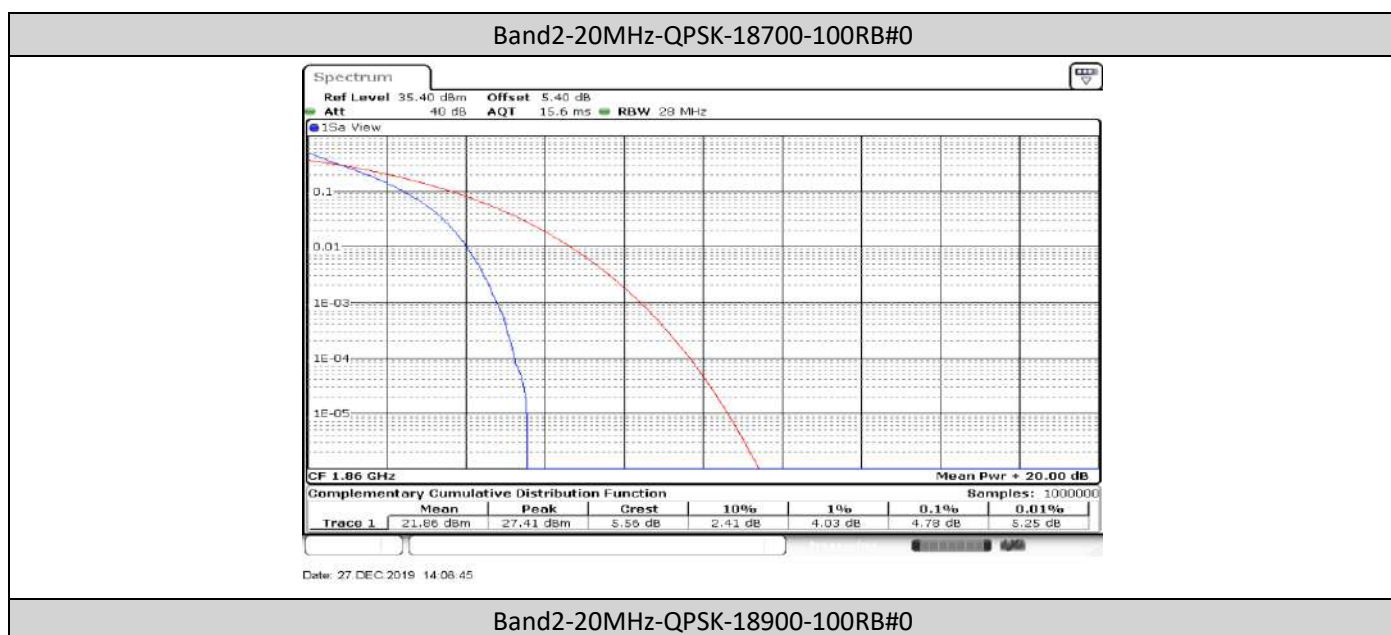


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.78	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.61	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.70	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	5.57	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.48	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.51	13	PASS

2.2. Test Plots





Date: 27 DEC.2019 14:09:08

Band2-20MHz-QPSK-19100-100RB#0



Date: 27 DEC.2019 14:09:31

Band2-20MHz-16QAM-18700-100RB#0

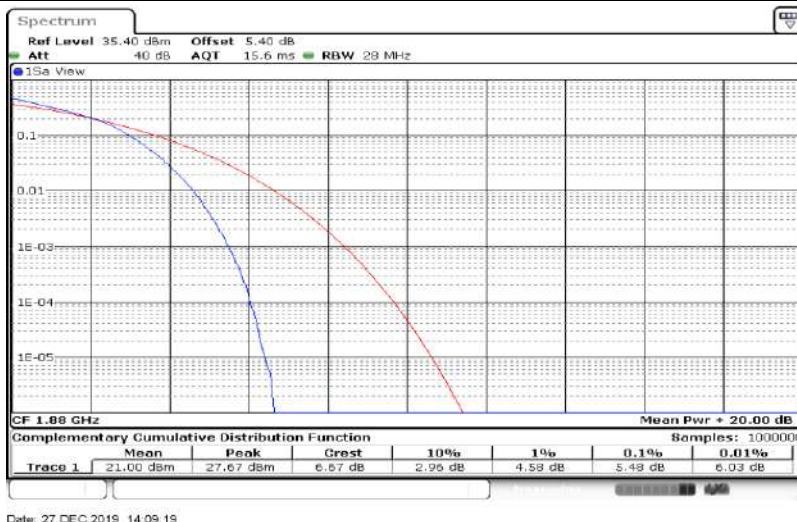


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Band2-20MHz-16QAM-18900-100RB#0



Band2-20MHz-16QAM-19100-100RB#0



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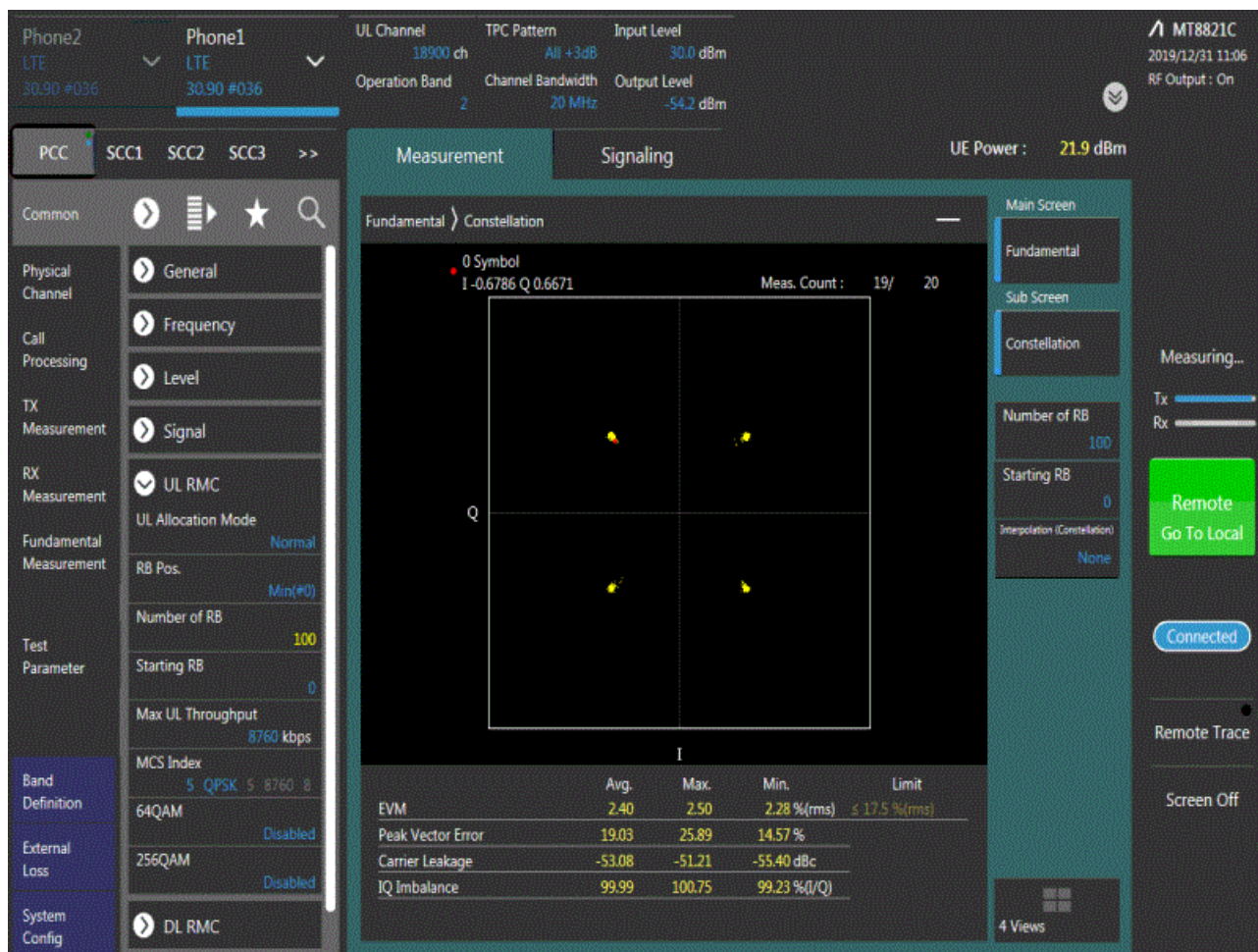
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

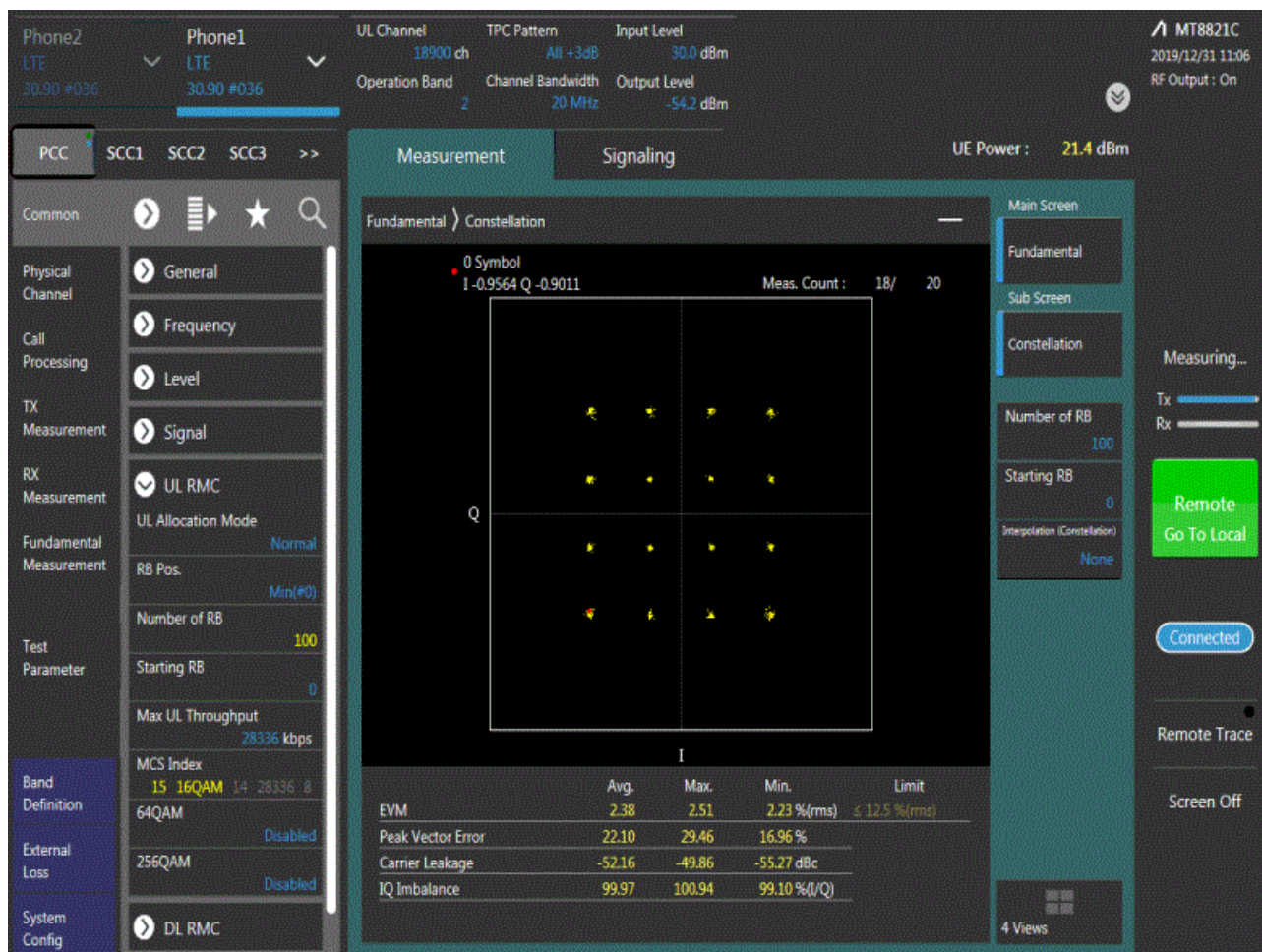
3.1.1. Test Channel = MCH



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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH



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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.091	1.296	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.088	1.293	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.100	1.377	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.091	1.296	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.091	1.287	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.097	1.347	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.691	2.898	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.691	2.898	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.697	2.922	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.679	2.856	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.685	2.886	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.679	2.862	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.476	4.760	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.476	4.760	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.476	4.750	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.476	4.760	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.476	4.740	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.486	4.730	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.951	9.460	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.971	9.460	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.971	9.560	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.971	9.440	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.991	9.460	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.971	9.440	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.636	14.820	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.636	14.550	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.636	14.820	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.606	14.520	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.606	14.460	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.636	14.880	PASS
Band2	20MHz	QPSK	18700	100RB#0	18.062	19.160	PASS



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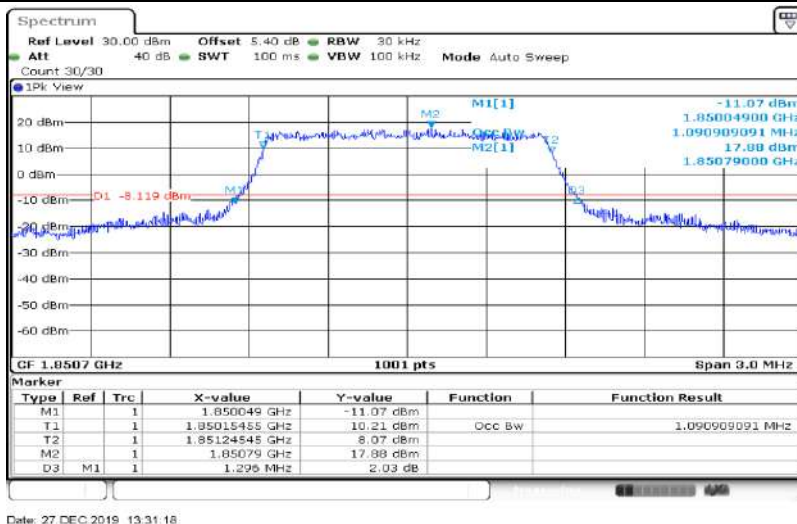
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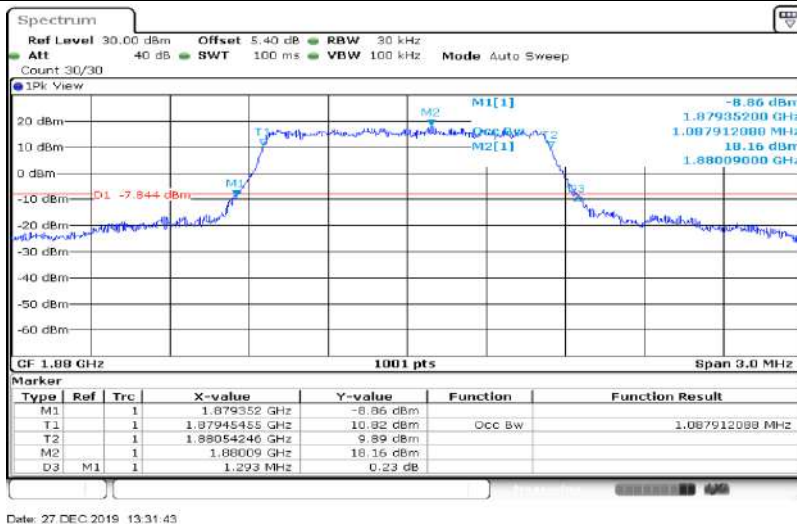
Band2	20MHz	QPSK	18900	100RB#0	18.102	19.040	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.902	18.800	PASS
Band2	20MHz	16QAM	18700	100RB#0	18.062	19.120	PASS
Band2	20MHz	16QAM	18900	100RB#0	18.022	19.040	PASS
Band2	20MHz	16QAM	19100	100RB#0	18.102	19.240	PASS

4.2. Test Plots

Band2-1.4MHz-QPSK-18607-6RB#0-1.091



Band2-1.4MHz-QPSK-18900-6RB#0-1.088



Band2-1.4MHz-QPSK-19193-6RB#0-1.1



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Band2-1.4MHz-16QAM-18607-6RB#0-1.091

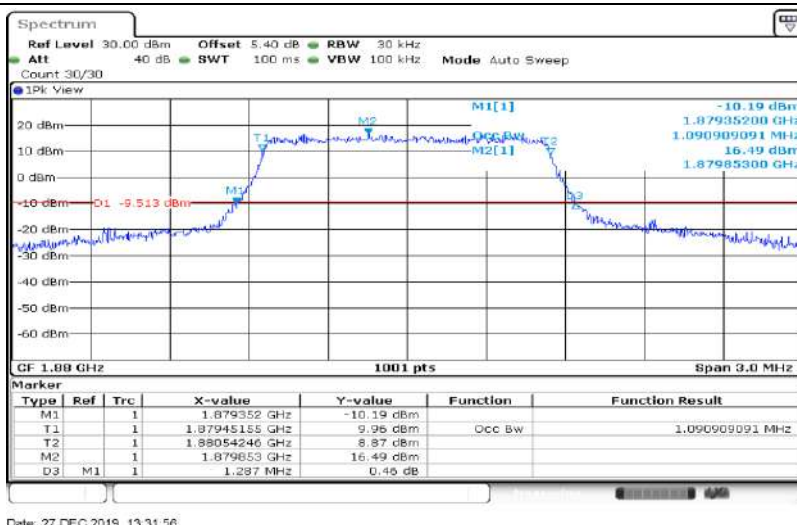


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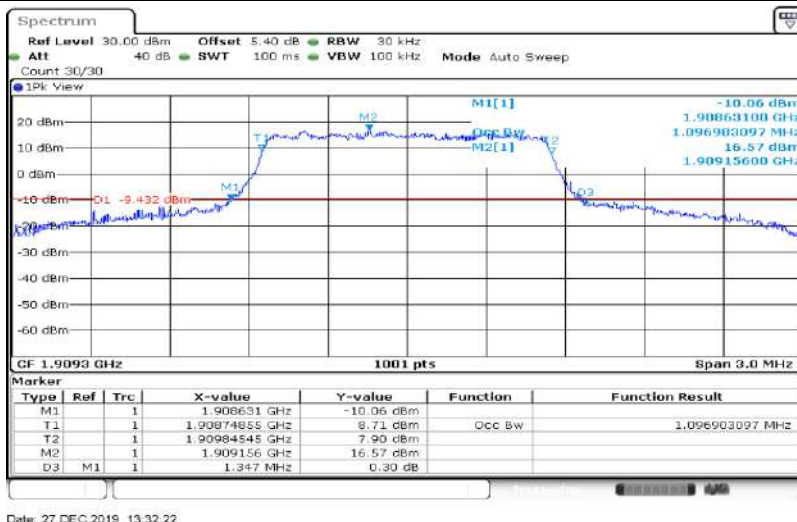


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Band2-1.4MHz-16QAM-19193-6RB#0-1.097



Band2-3MHz-QPSK-18615-15RB#0-2.691

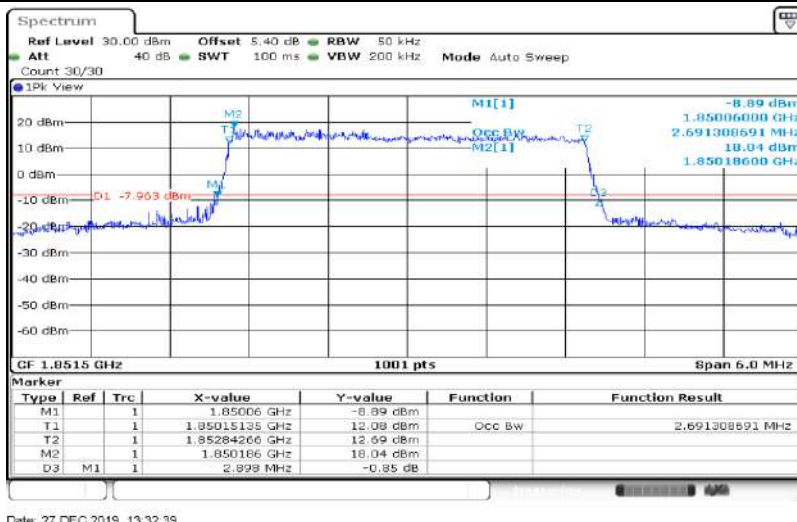


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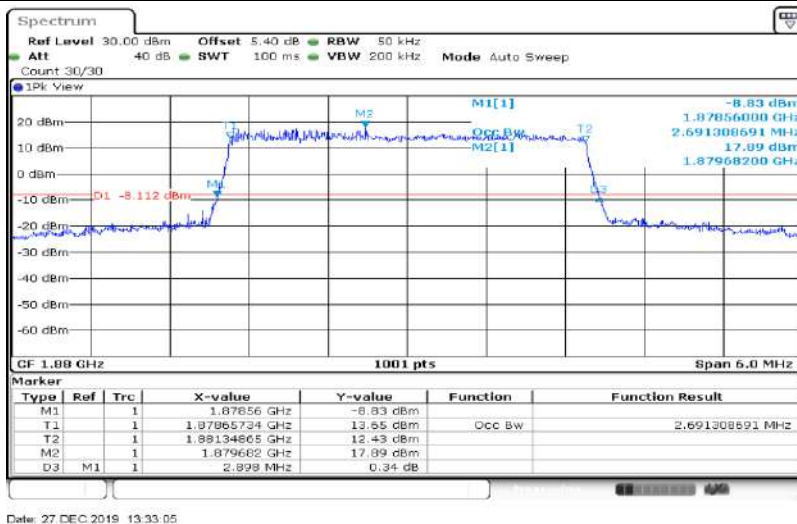
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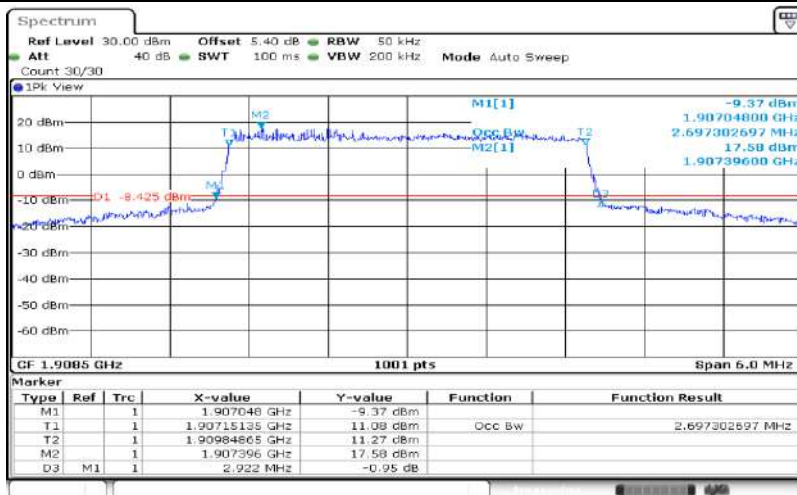


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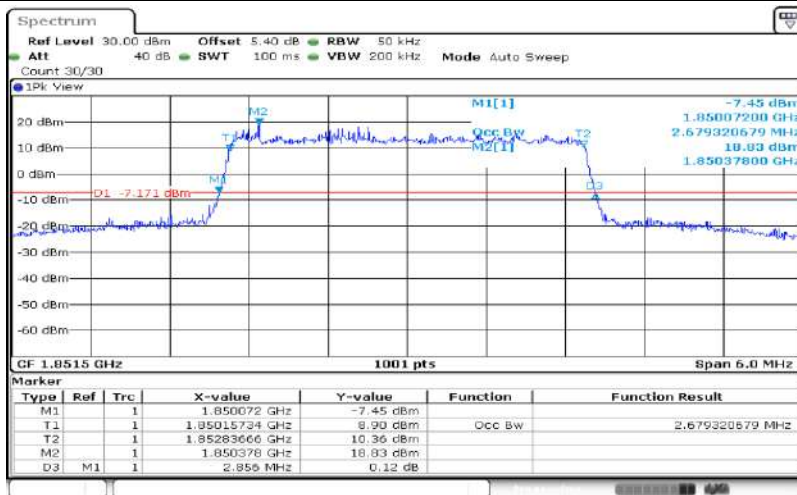
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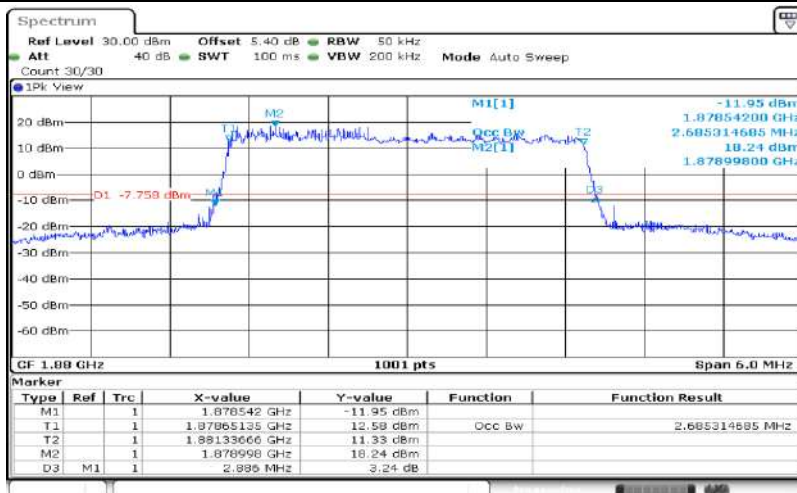
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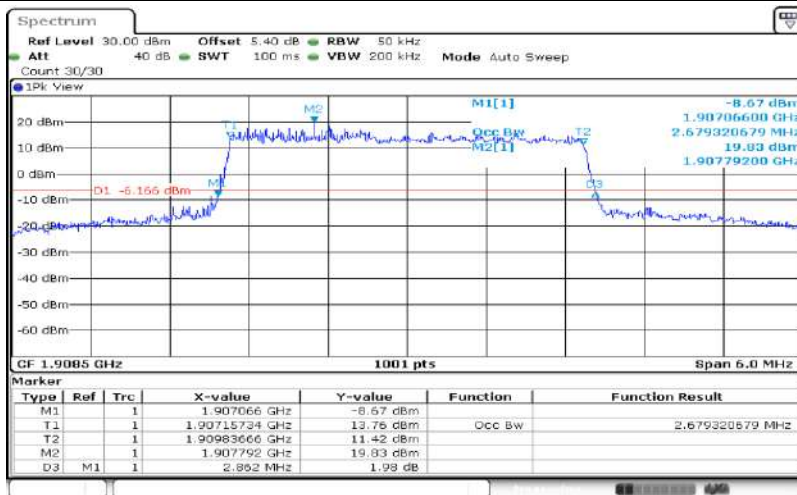
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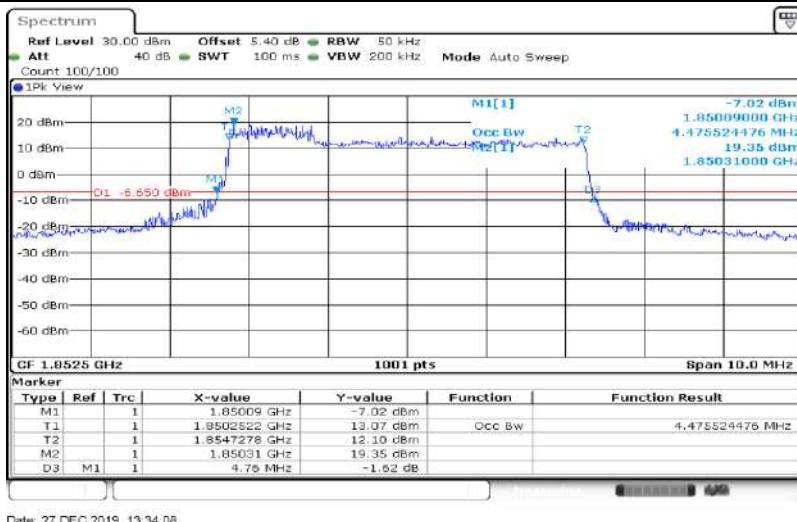
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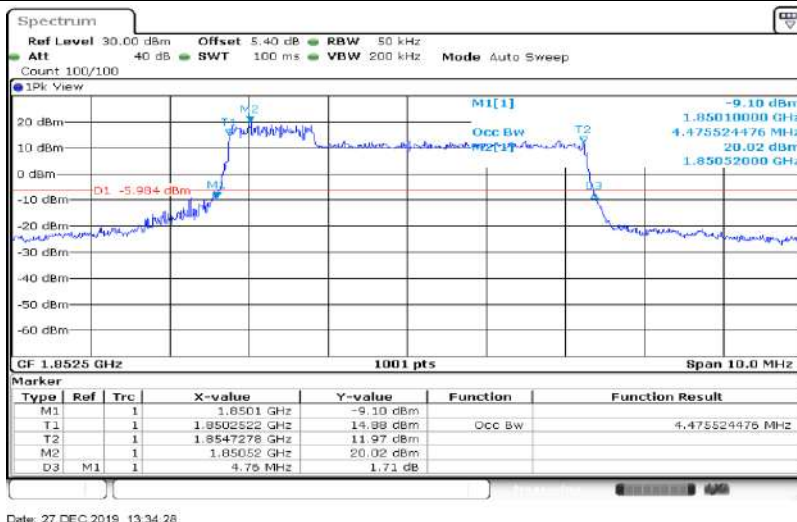


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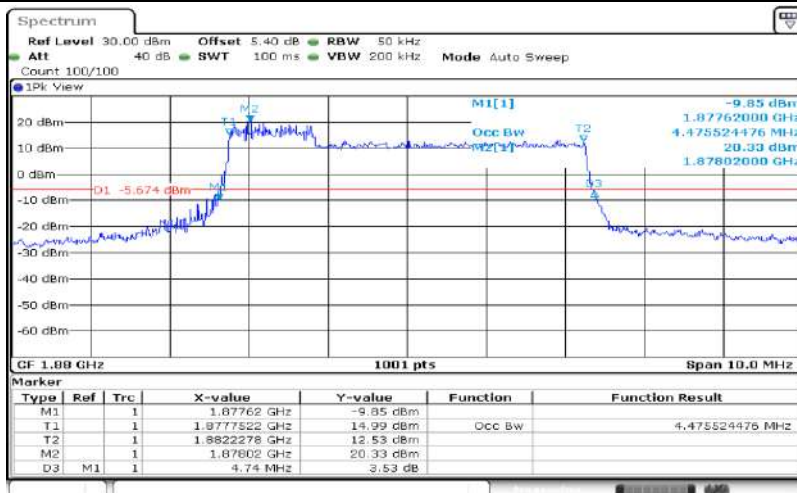


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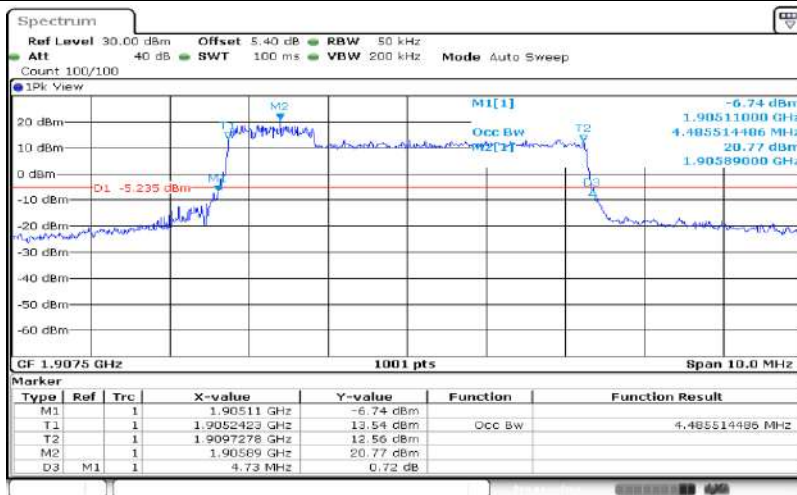
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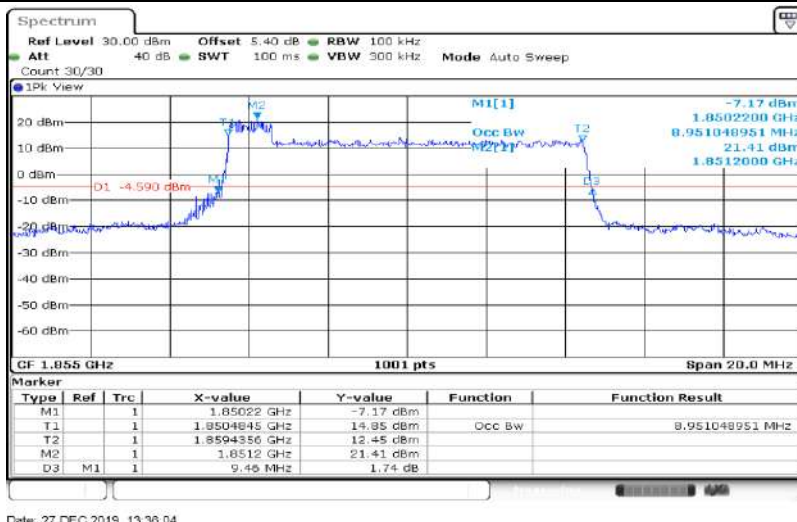
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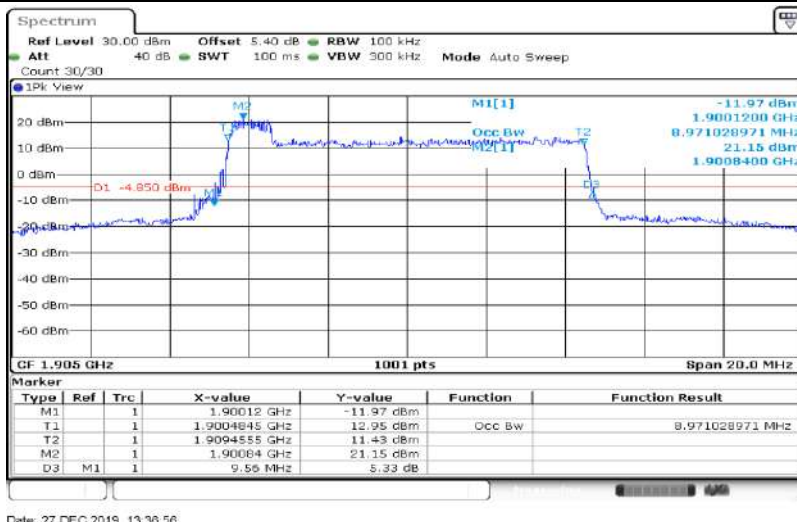


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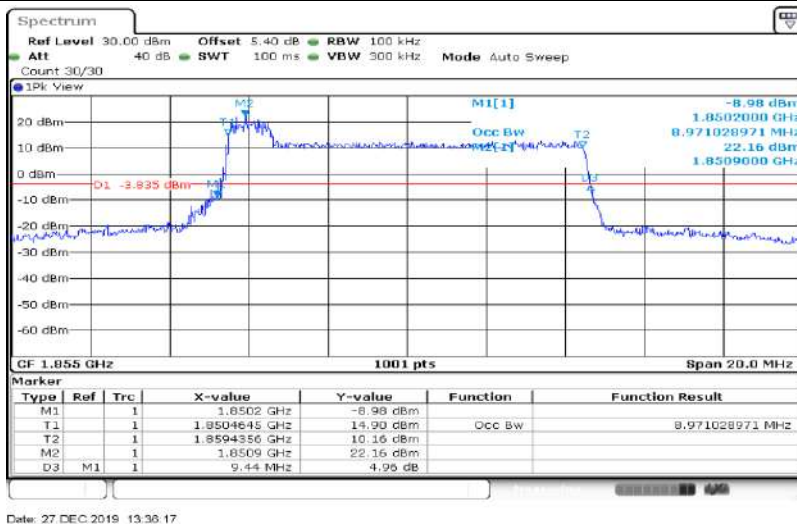


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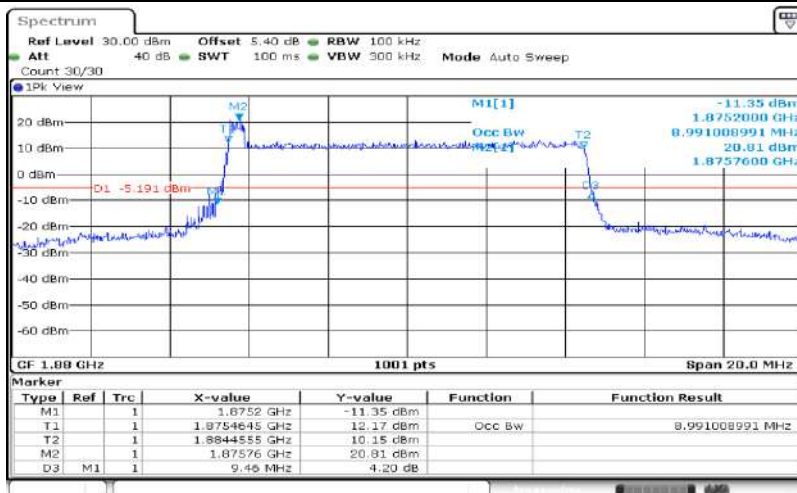


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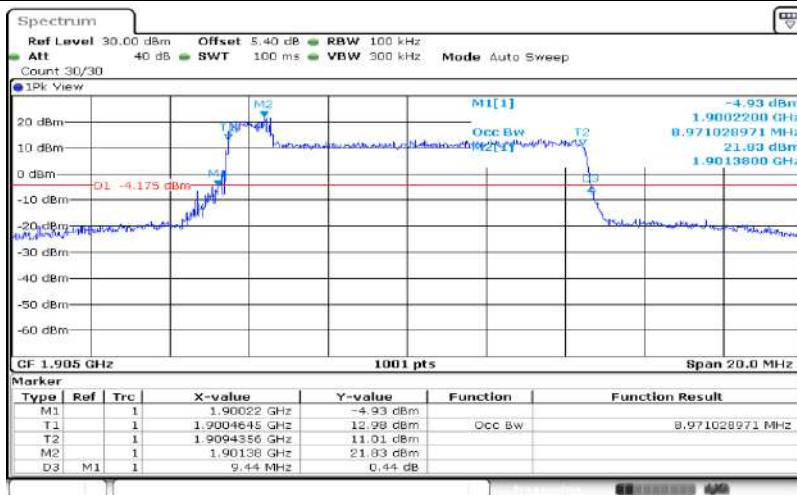
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Date: 27 DEC.2019 13:38:43

Band2-10MHz-16QAM-19150-50RB#0-8.971



Date: 27 DEC.2019 13:37:09

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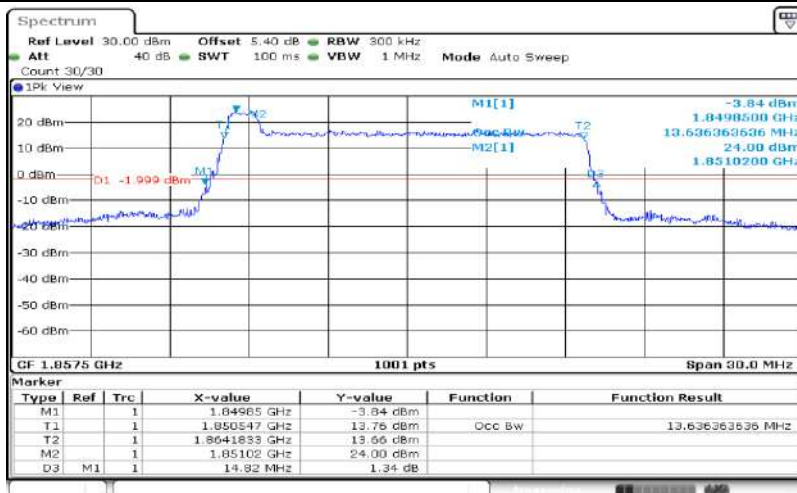


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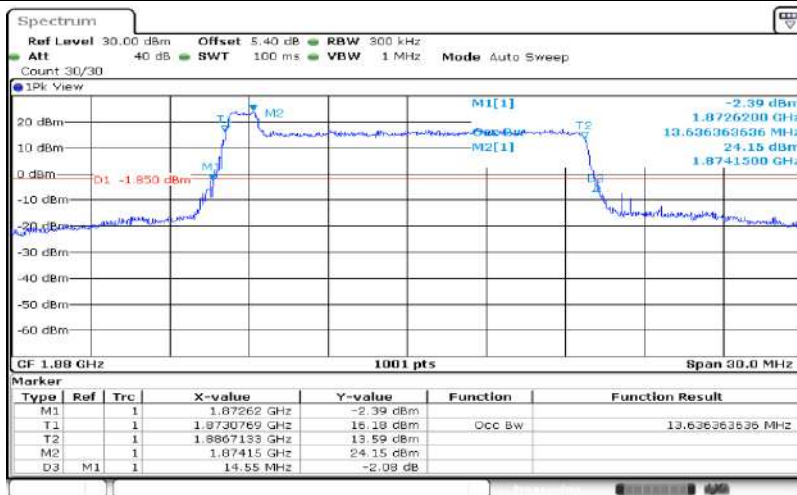
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Date: 27 DEC.2019 13:37:26

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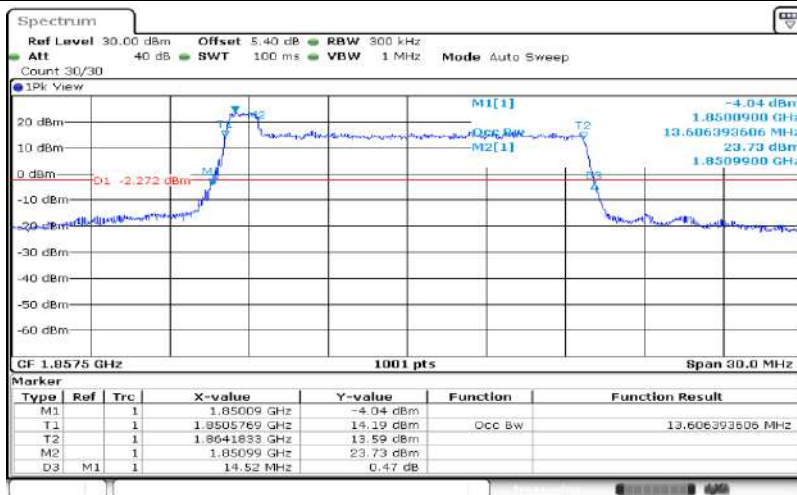
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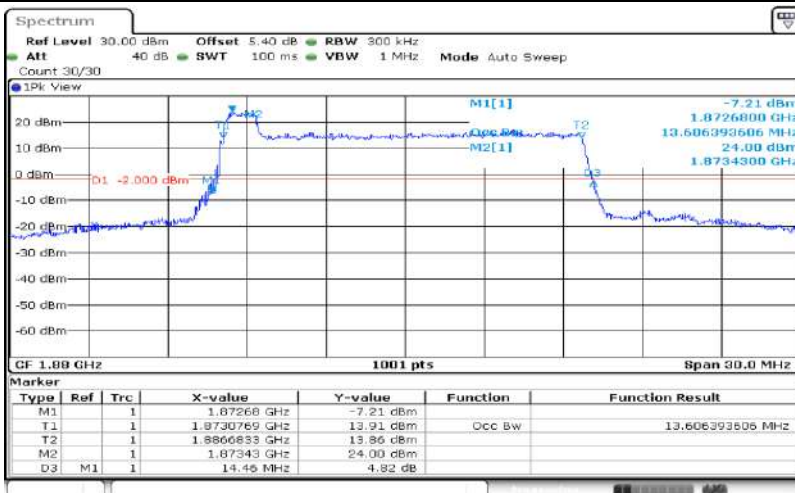
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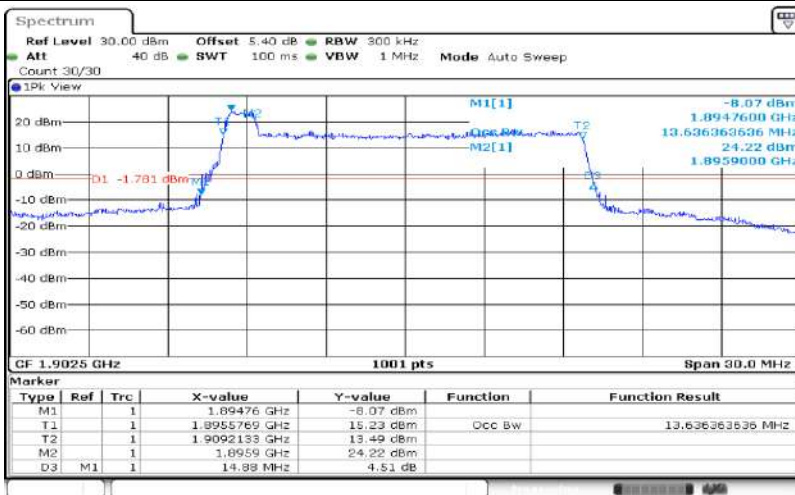
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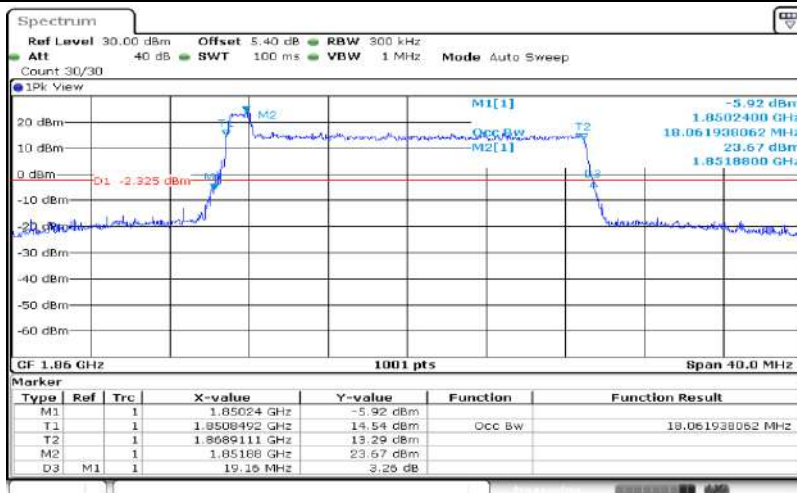
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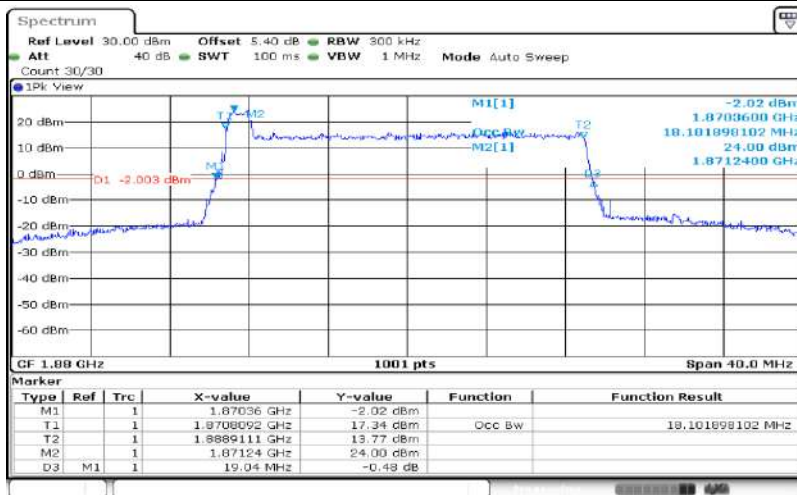
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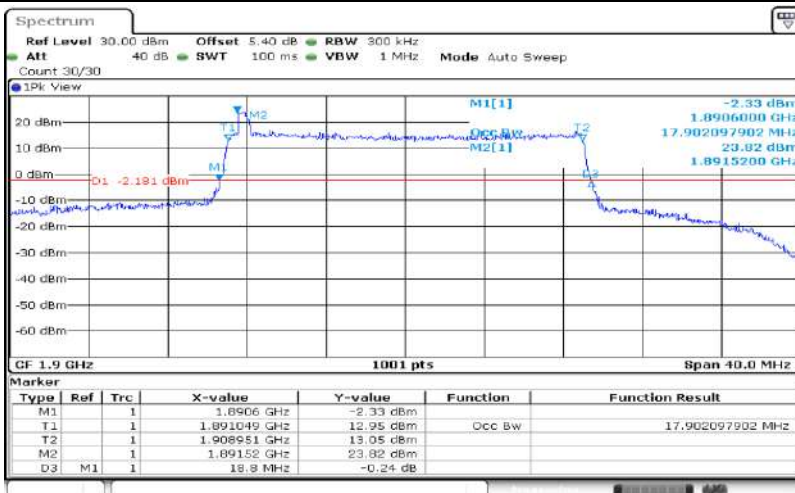
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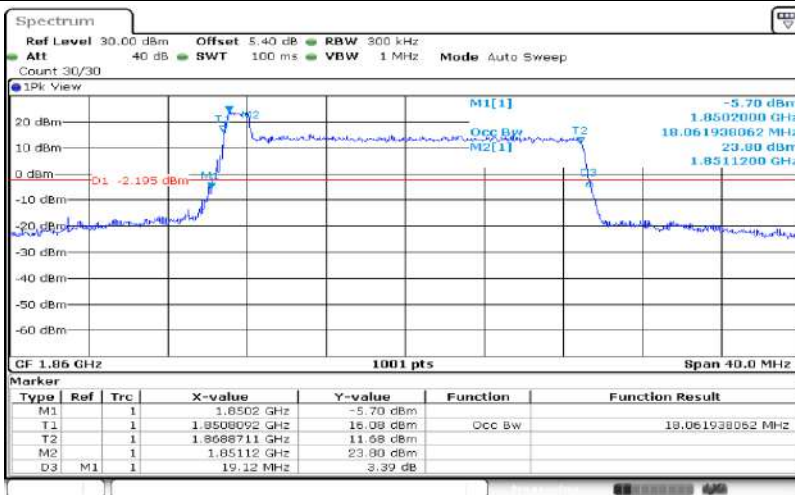
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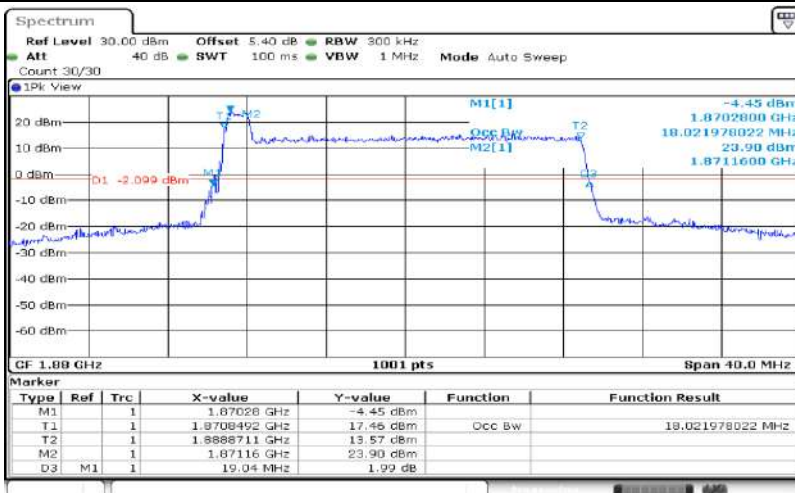
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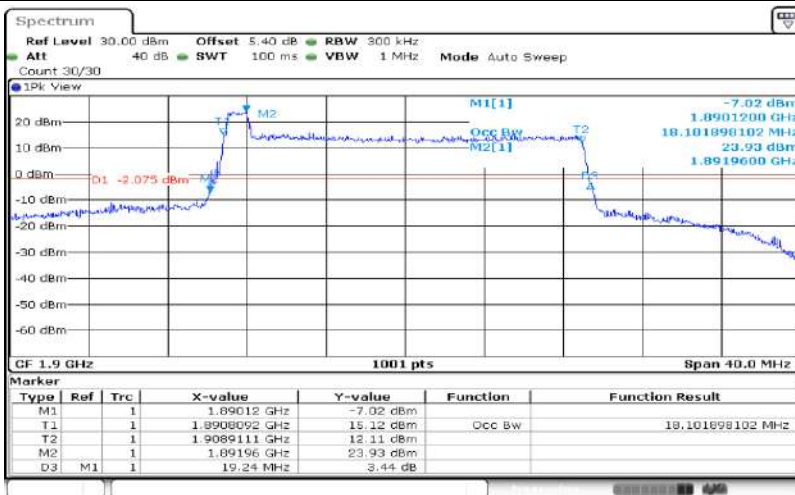
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Date: 27 DEC.2019 13:39:26

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Date: 27 DEC.2019 13:39:52



5. Band Edge Compliance

5.1. Test Plots

Band2-1.4MHz-QPSK-18607-1RB#0



Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-19193-1RB#5

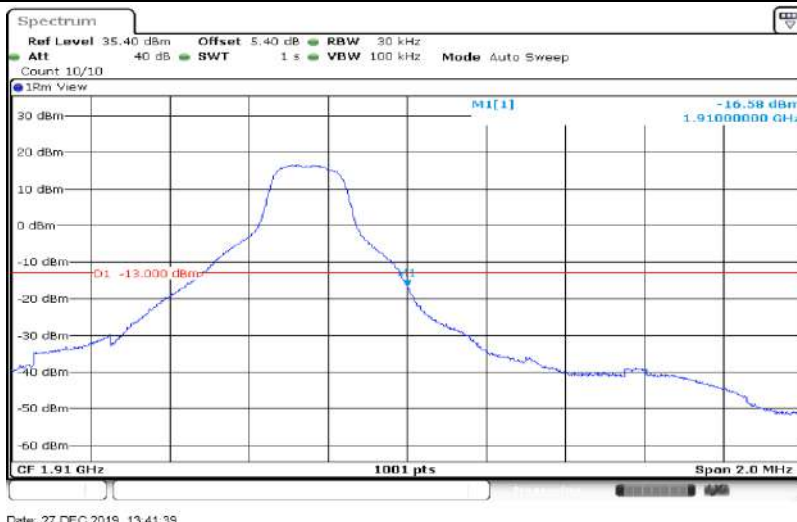


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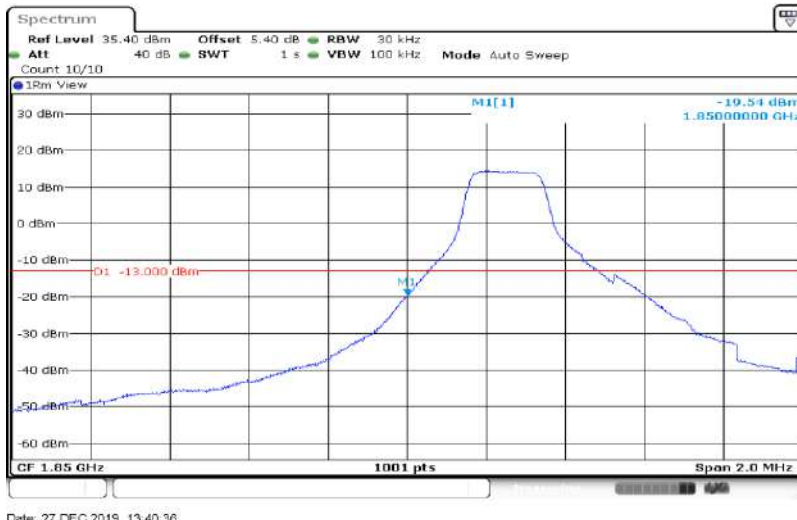


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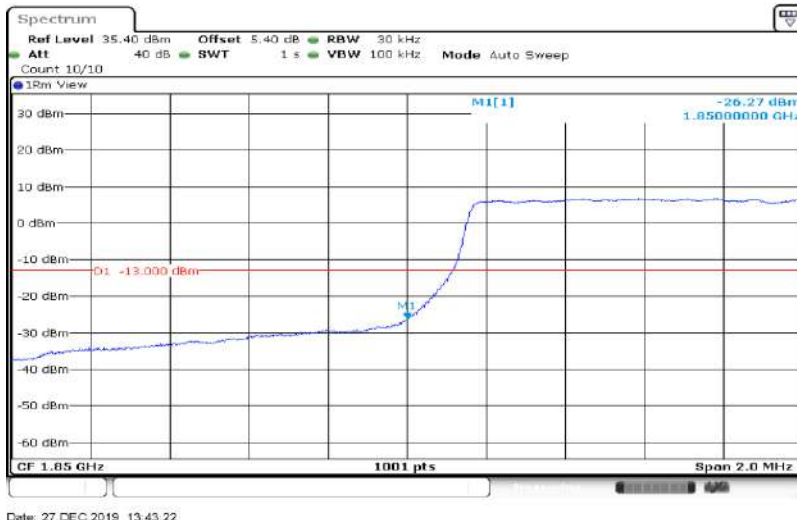


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Band2-1.4MHz-16QAM-18607-6RB#0



Band2-1.4MHz-16QAM-19193-1RB#5



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Band2-1.4MHz-16QAM-19193-6RB#0



Band2-3MHz-QPSK-18615-1RB#0





Band2-3MHz-QPSK-18615-15RB#0



Band2-3MHz-QPSK-19185-1RB#14



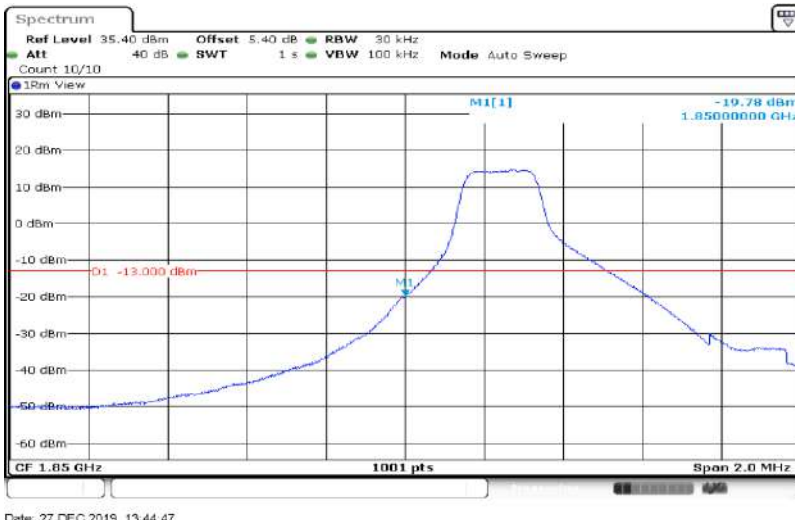


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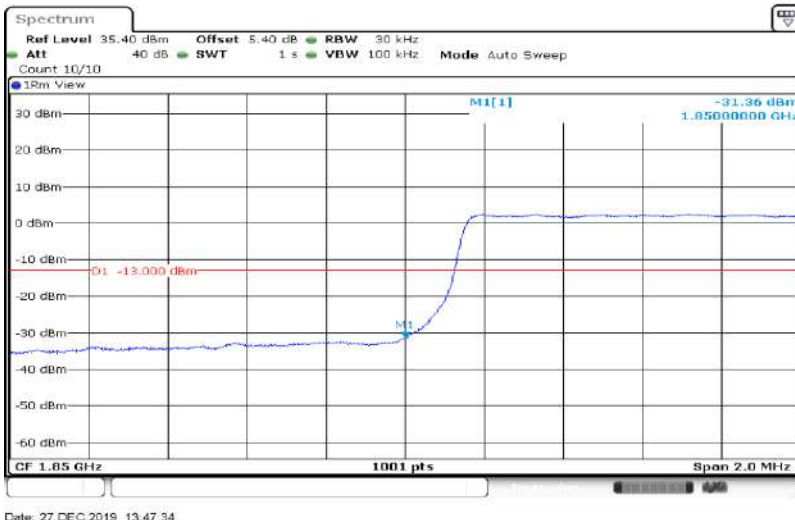


Band2-3MHz-16QAM-18615-1RB#0





Band2-3MHz-16QAM-18615-15RB#0



Band2-3MHz-16QAM-19185-1RB#14



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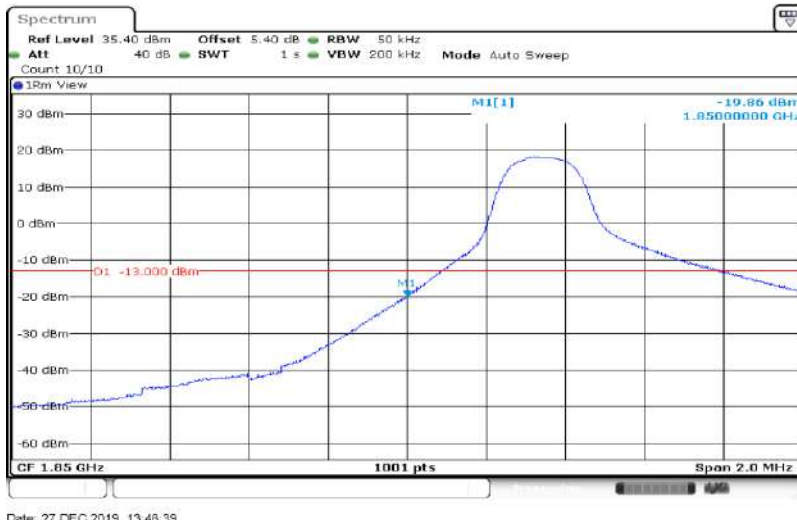


Band2-3MHz-16QAM-19185-15RB#0



Band2-5MHz-QPSK-18625-1RB#0





Band2-5MHz-QPSK-18625-25RB#0



Band2-5MHz-QPSK-19175-1RB#24



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Band2-5MHz-16QAM-18625-1RB#0





Band2-5MHz-16QAM-18625-25RB#0



Band2-5MHz-16QAM-19175-1RB#24





Band2-5MHz-16QAM-19175-25RB#0



Band2-10MHz-QPSK-18650-1RB#0





Band2-10MHz-QPSK-18650-50RB#0



Band2-10MHz-QPSK-19150-1RB#49





Band2-10MHz-QPSK-19150-50RB#0



Band2-10MHz-16QAM-18650-1RB#0





Band2-10MHz-16QAM-18650-50RB#0



Band2-10MHz-16QAM-19150-1RB#49





Band2-10MHz-16QAM-19150-50RB#0



Band2-15MHz-QPSK-18675-1RB#0





Band2-15MHz-QPSK-18675-75RB#0



Band2-15MHz-QPSK-19125-1RB#74



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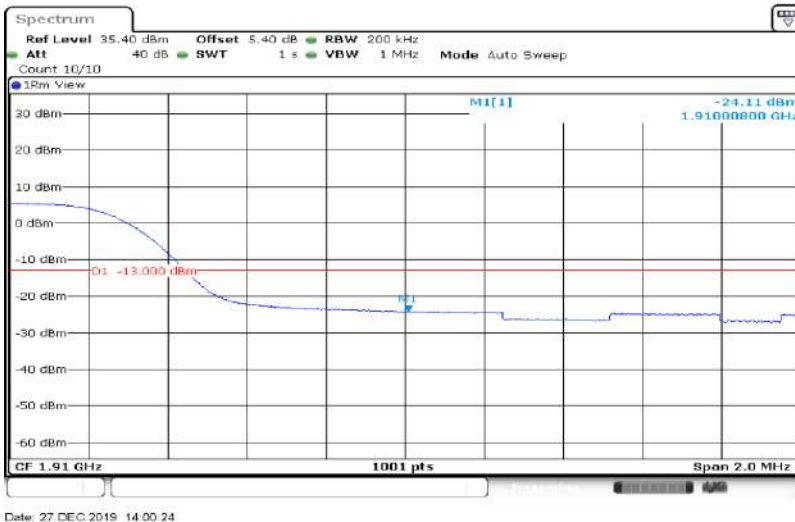
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Band2-15MHz-QPSK-19125-75RB#0



Band2-15MHz-16QAM-18675-1RB#0



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Band2-15MHz-16QAM-18675-75RB#0



Band2-15MHz-16QAM-19125-1RB#74



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Band2-15MHz-16QAM-19125-75RB#0



Band2-20MHz-QPSK-18700-1RB#0



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Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-19100-1RB#99





Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-1RB#0



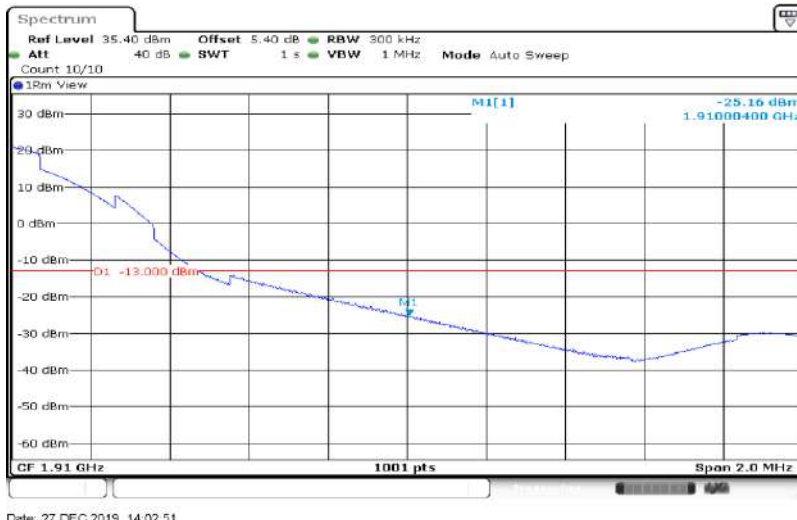


Band2-20MHz-16QAM-18700-100RB#0



Band2-20MHz-16QAM-19100-1RB#99





Band2-20MHz-16QAM-19100-100RB#0



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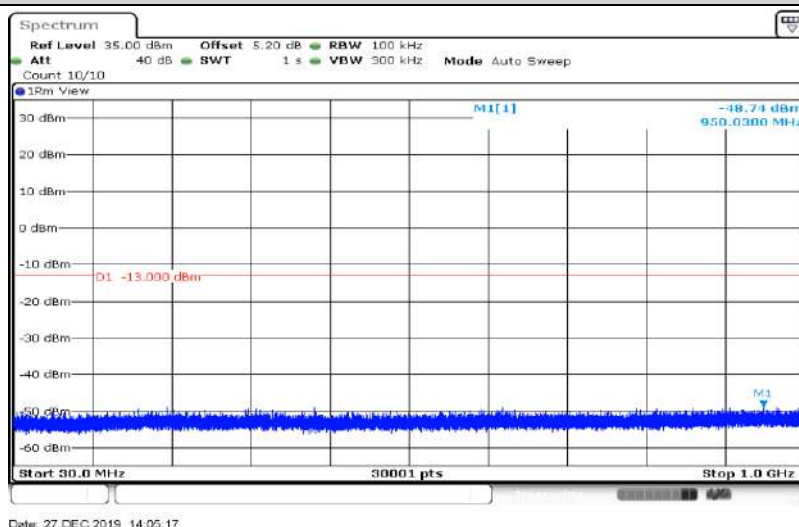
6. Spurious Emission at Antenna Terminal

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

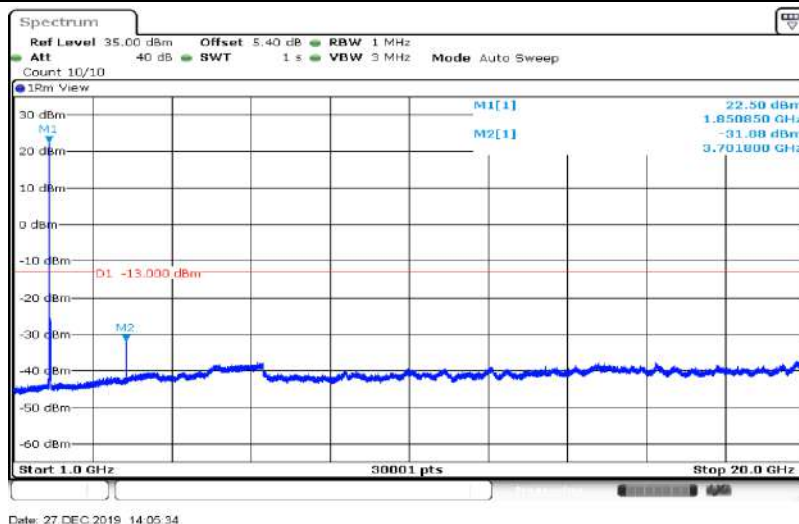
Remark2: only the worst case data displayed in this report.

6.1. Test Plots

Band2-20MHz-QPSK-18700-1RB#0-Range1:30~1000MHz

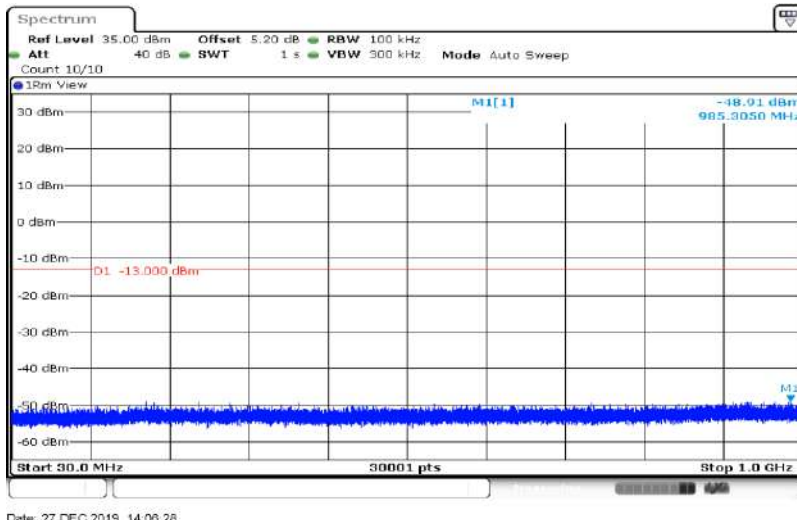


Band2-20MHz-QPSK-18700-1RB#0-Range2:1000~20000MHz

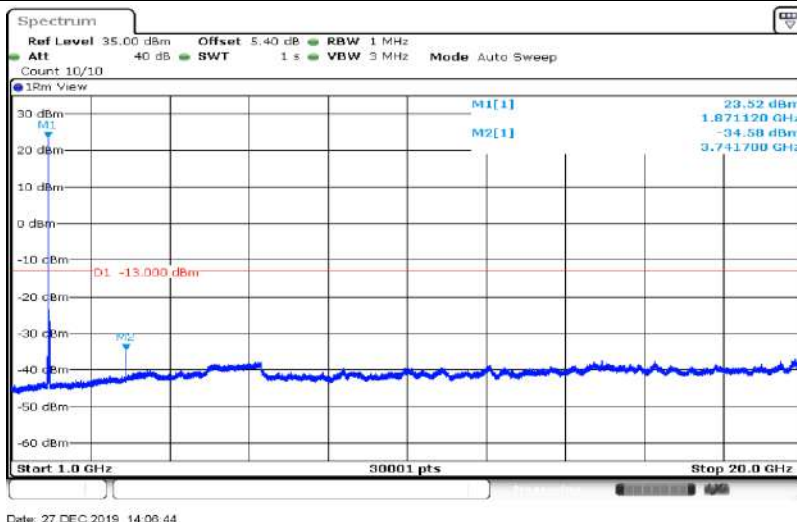


Band2-20MHz-QPSK-18900-1RB#0-Range1:30~1000MHz





Band2-20MHz-QPSK-18900-1RB#0-Range2:1000~20000MHz

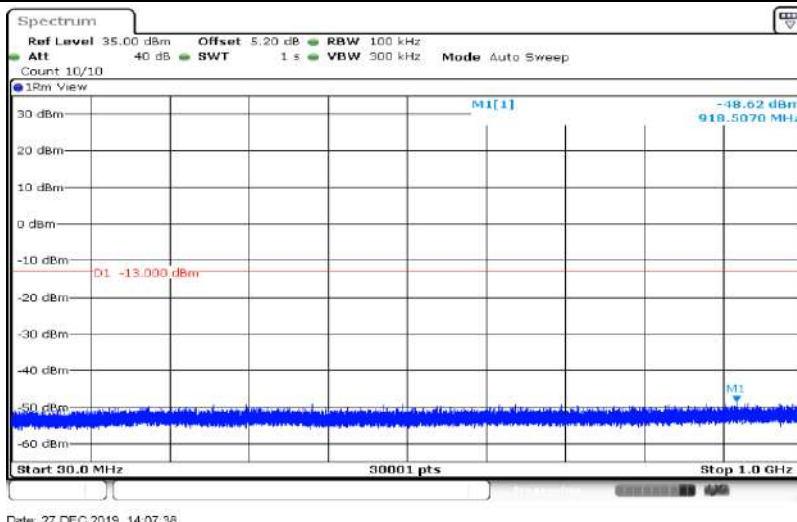


Band2-20MHz-QPSK-19100-1RB#0-Range1:30~1000MHz

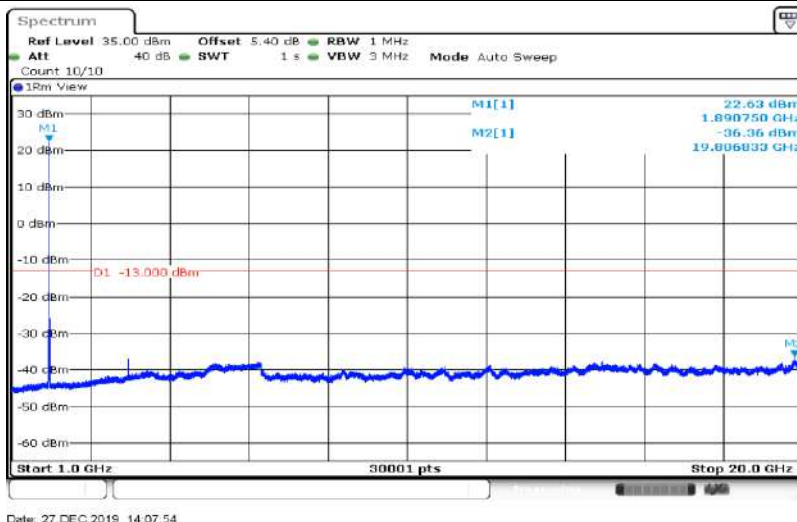


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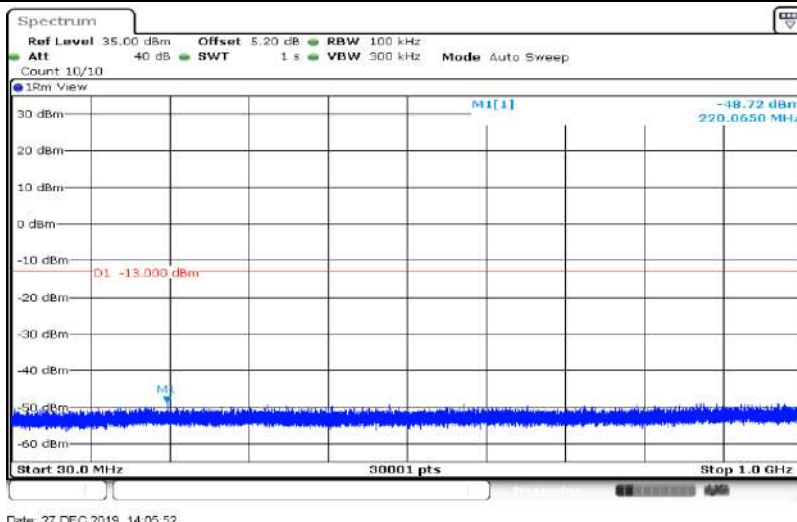


Band2-20MHz-QPSK-19100-1RB#0-Range2:1000~20000MHz

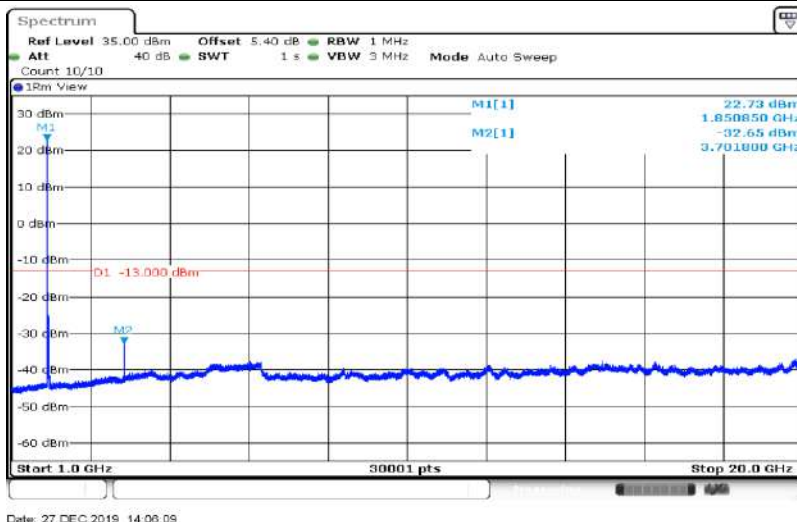


Band2-20MHz-16QAM-18700-1RB#0-Range1:30~1000MHz



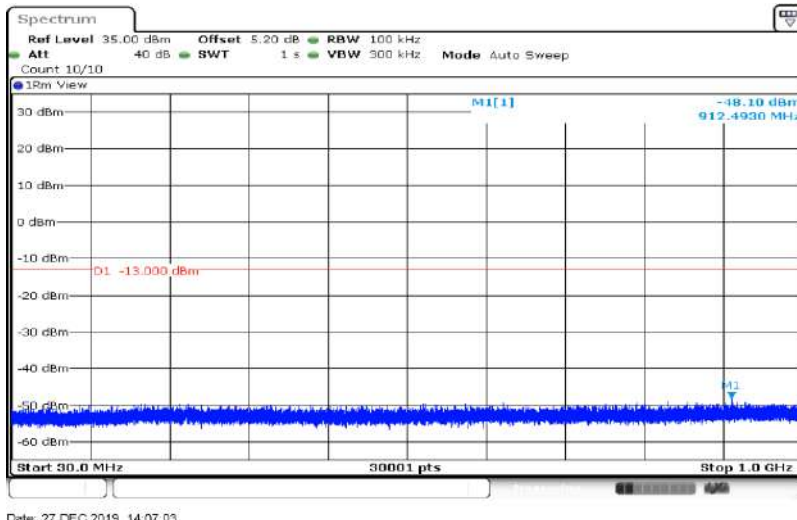


Band2-20MHz-16QAM-18700-1RB#0-Range2:1000~20000MHz

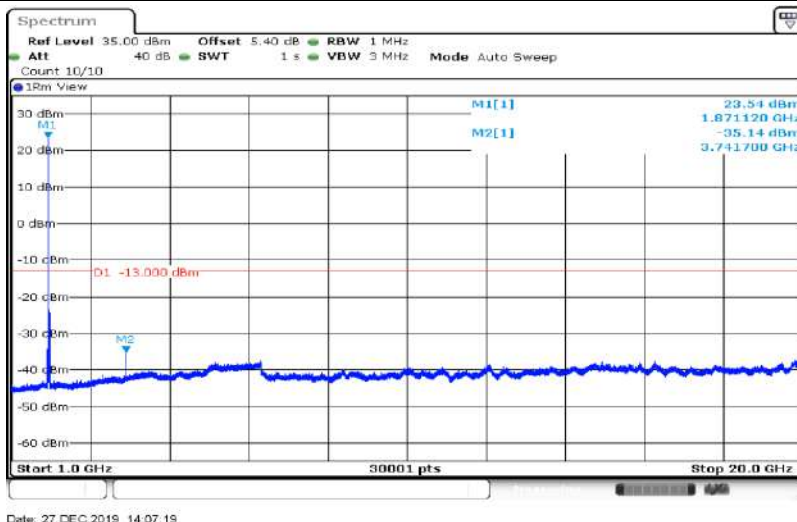


Band2-20MHz-16QAM-18900-1RB#0-Range1:30~1000MHz





Band2-20MHz-16QAM-18900-1RB#0-Range2:1000~20000MHz

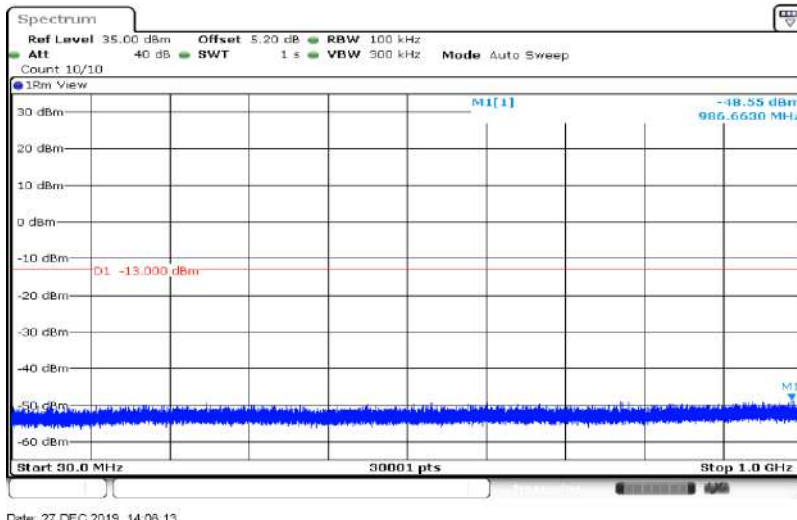


Band2-20MHz-16QAM-19100-1RB#0-Range1:30~1000MHz

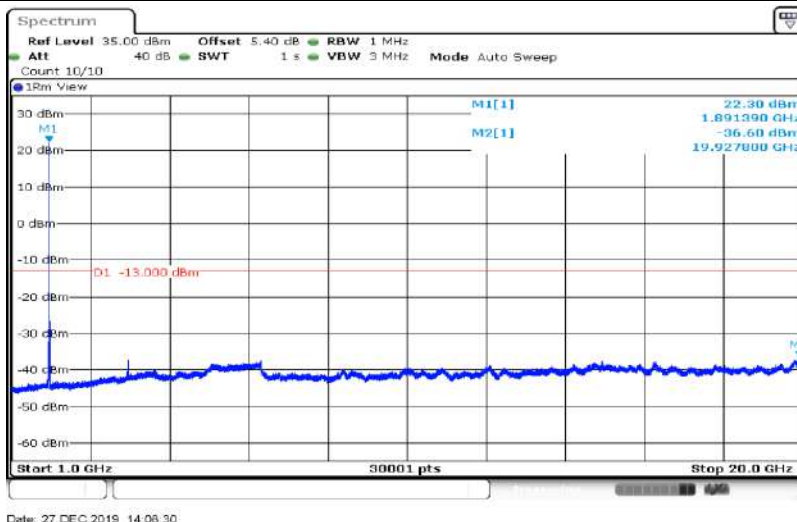


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Band2-20MHz-16QAM-19100-1RB#0-Range2:1000~20000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.8835	-64.64	-13.00	51.64	Vertical
3702.0234	-44.95	-13.00	31.95	Vertical
5553.5851	-54.96	-13.00	41.96	Vertical
7404.1468	-41.33	-13.00	28.33	Vertical
9255.2085	-36.42	-13.00	23.42	Vertical
17986.4996	-39.75	-13.00	26.75	Vertical
43.3382	-64.62	-13.00	51.62	Horizontal
3702.0234	-42.06	-13.00	29.06	Horizontal
5553.0851	-49.95	-13.00	36.95	Horizontal
7404.1468	-40.71	-13.00	27.71	Horizontal
9255.7085	-35.82	-13.00	22.82	Horizontal
11106.2702	-41.48	-13.00	28.48	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
114.1032	-64.53	-13.00	51.53	Vertical
3742.0247	-45.06	-13.00	32.06	Vertical
5613.0871	-51.21	-13.00	38.21	Vertical
7484.6495	-38.87	-13.00	25.87	Vertical
9355.7119	-36.99	-13.00	23.99	Vertical
17985.9995	-40.56	-13.00	27.56	Vertical
42.5621	-63.53	-13.00	50.53	Horizontal
3742.0247	-41.83	-13.00	28.83	Horizontal
5613.5871	-48.61	-13.00	35.61	Horizontal
7484.1495	-37.95	-13.00	24.95	Horizontal
9355.7119	-32.70	-13.00	19.70	Horizontal
11226.7742	-40.70	-13.00	27.70	Horizontal



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7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.8164	-65.11	-13.00	52.11	Vertical
3782.0261	-47.43	-13.00	34.43	Vertical
5673.5891	-51.20	-13.00	38.20	Vertical
7564.6522	-38.43	-13.00	25.43	Vertical
9455.2152	-37.18	-13.00	24.18	Vertical
17996.4999	-41.22	-13.00	28.22	Vertical
41.0101	-64.23	-13.00	51.23	Horizontal
3782.5261	-44.38	-13.00	31.38	Horizontal
5673.0891	-46.53	-13.00	33.53	Horizontal
7564.1521	-37.79	-13.00	24.79	Horizontal
9455.2152	-32.92	-13.00	19.92	Horizontal
11346.7782	-43.66	-13.00	30.66	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.





8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	5.10	0.002742	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	-16.80	-0.009032	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	-3.00	-0.001613	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	0.90	0.000479	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-5.80	-0.003085	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	1.80	0.000957	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	-5.50	-0.002895	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	-9.40	-0.004947	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	-11.00	-0.005789	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VL	NT	-11.80	-0.006344	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VN	NT	-7.90	-0.004247	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	VH	NT	-10.20	-0.005484	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VL	NT	1.10	0.000585	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VN	NT	-7.70	-0.004096	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	VH	NT	-9.20	-0.004894	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VL	NT	-9.00	-0.004737	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VN	NT	-7.70	-0.004053	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	VH	NT	-12.50	-0.006579	±2.5	PASS

8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	-21.20	-0.011398	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	5.50	0.002957	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	-10.10	-0.005430	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	-8.60	-0.004624	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	-19.80	-0.010645	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	-3.50	-0.001882	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	-4.50	-0.002419	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	-4.90	-0.002634	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	0.70	0.000372	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-13.70	-0.007287	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-4.70	-0.002500	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-7.50	-0.003989	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	0.70	0.000372	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-1.60	-0.000851	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	4.10	0.002181	±2.5	PASS



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Band2	20MHz	QPSK	18900	100RB#0	NV	50	11.00	0.005851	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	4.60	0.002421	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	-11.00	-0.005789	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	3.80	0.002000	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-19.70	-0.010368	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	6.70	0.003526	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-8.20	-0.004316	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	-5.30	-0.002789	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-19.40	-0.010211	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-30	5.40	0.002903	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	-20	-6.10	-0.003280	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	0	-13.80	-0.007419	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	10	-8.70	-0.004677	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	20	-6.00	-0.003226	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	30	-3.70	-0.001989	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	40	-9.50	-0.005108	±2.5	PASS
Band2	20MHz	16QAM	18700	100RB#0	NV	50	-5.70	-0.003065	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-30	3.80	0.002021	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	-20	9.50	0.005053	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	0	10.80	0.005745	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	10	-6.30	-0.003351	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	20	-3.90	-0.002074	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	30	-13.10	-0.006968	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	40	-10.70	-0.005691	±2.5	PASS
Band2	20MHz	16QAM	18900	100RB#0	NV	50	-10.30	-0.005479	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-30	-5.70	-0.003000	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	-20	7.30	0.003842	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	0	-9.70	-0.005105	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	10	-31.00	-0.016316	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	20	9.70	0.005105	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	30	-6.90	-0.003632	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	40	2.00	0.001053	±2.5	PASS
Band2	20MHz	16QAM	19100	100RB#0	NV	50	-8.50	-0.004474	±2.5	PASS



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