



# 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	23.15	24.74	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.95	24.54	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.01	24.60	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	23.03	24.62	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	23.13	24.72	33.00	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	22.97	24.56	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.82	23.41	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.00	24.59	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.83	24.42	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.03	24.62	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	23.14	24.73	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.86	24.45	33.00	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	23.13	24.72	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.02	23.61	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.02	24.61	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.96	24.55	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.13	24.72	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.90	24.49	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	22.91	24.50	33.00	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	23.04	24.63	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.14	23.73	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.06	23.65	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.04	23.63	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.06	23.65	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	21.99	23.58	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	22.04	23.63	33.00	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.99	23.58	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.05	22.64	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.18	23.77	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.86	23.45	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.82	23.41	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.96	23.55	33.00	PASS



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Band2	1.4MHz	16QAM	18900	3RB#1	21.82	23.41	33.00	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.84	23.43	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.14	22.73	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.16	23.75	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.13	23.72	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.81	23.40	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	22.02	23.61	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	21.96	23.55	33.00	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	22.12	23.71	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.99	22.58	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	23.07	24.66	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.80	24.39	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.81	24.40	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#0	22.02	23.61	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#4	21.96	23.55	33.00	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.89	23.48	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.92	23.51	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.00	24.59	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.02	24.61	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.01	24.60	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#0	22.04	23.63	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.94	23.53	33.00	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.91	23.50	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.83	23.42	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	23.12	24.71	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	23.16	24.75	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.06	24.65	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#0	22.09	23.68	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.88	23.47	33.00	PASS
Band2	3MHz	QPSK	19185	8RB#7	22.07	23.66	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.18	23.77	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.95	23.54	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.05	23.64	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.82	23.41	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.91	22.50	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#4	21.11	22.70	33.00	PASS
Band2	3MHz	16QAM	18615	8RB#7	20.94	22.53	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.86	22.45	33.00	PASS



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Band2	3MHz	16QAM	18900	1RB#0	21.93	23.52	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.90	23.49	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.20	23.79	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#0	21.17	22.76	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#4	20.96	22.55	33.00	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.83	22.42	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.01	22.60	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.80	23.39	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.96	23.55	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.14	23.73	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#0	21.18	22.77	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#4	20.80	22.39	33.00	PASS
Band2	3MHz	16QAM	19185	8RB#7	21.13	22.72	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.17	22.76	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.13	24.72	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.01	24.60	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.96	24.55	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.98	23.57	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.97	23.56	33.00	PASS
Band2	5MHz	QPSK	18625	12RB#13	22.13	23.72	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.13	23.72	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.81	24.40	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.90	24.49	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.98	24.57	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.95	23.54	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#6	22.01	23.60	33.00	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.92	23.51	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.00	23.59	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.83	24.42	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.10	24.69	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.90	24.49	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#0	22.19	23.78	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.90	23.49	33.00	PASS
Band2	5MHz	QPSK	19175	12RB#13	22.17	23.76	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.11	23.70	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.10	23.69	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.89	23.48	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.82	23.41	33.00	PASS



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Band2	5MHz	16QAM	18625	12RB#0	21.09	22.68	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.97	22.56	33.00	PASS
Band2	5MHz	16QAM	18625	12RB#13	20.93	22.52	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.92	22.51	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.03	23.62	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.97	23.56	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.96	23.55	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.90	22.49	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#6	21.18	22.77	33.00	PASS
Band2	5MHz	16QAM	18900	12RB#13	20.90	22.49	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.88	22.47	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.91	23.50	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.05	23.64	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.02	23.61	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.91	22.50	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#6	21.16	22.75	33.00	PASS
Band2	5MHz	16QAM	19175	12RB#13	21.02	22.61	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.06	22.65	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.83	24.42	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.06	24.65	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.12	24.71	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.89	23.48	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.94	23.53	33.00	PASS
Band2	10MHz	QPSK	18650	25RB#25	22.15	23.74	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.85	23.44	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.84	24.43	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.94	24.53	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.95	24.54	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#0	22.18	23.77	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.91	23.50	33.00	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.91	23.50	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.98	23.57	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.15	24.74	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.00	24.59	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.19	24.78	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#0	22.02	23.61	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#12	22.16	23.75	33.00	PASS
Band2	10MHz	QPSK	19150	25RB#25	22.10	23.69	33.00	PASS



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Band2	10MHz	QPSK	19150	50RB#0	21.83	23.42	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.81	23.40	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.02	23.61	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.01	23.60	33.00	PASS
Band2	10MHz	16QAM	18650	27RB#0	21.99	23.58	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.13	23.72	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.86	23.45	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.01	23.60	33.00	PASS
Band2	10MHz	16QAM	18900	27RB#0	21.95	23.54	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.16	23.75	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.15	23.74	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.90	23.49	33.00	PASS
Band2	10MHz	16QAM	19150	27RB#0	21.96	23.55	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.80	24.39	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.00	24.59	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.97	24.56	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#0	21.93	23.52	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#18	22.03	23.62	33.00	PASS
Band2	15MHz	QPSK	18675	36RB#39	22.07	23.66	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.15	23.74	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.94	24.53	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.92	24.51	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.81	24.40	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#0	22.18	23.77	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#18	21.82	23.41	33.00	PASS
Band2	15MHz	QPSK	18900	36RB#39	22.11	23.70	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.00	23.59	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.94	24.53	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.19	24.78	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.04	24.63	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#0	22.18	23.77	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#18	21.81	23.40	33.00	PASS
Band2	15MHz	QPSK	19125	36RB#39	22.18	23.77	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.84	23.43	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.16	23.75	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.17	23.76	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.13	23.72	33.00	PASS
Band2	15MHz	16QAM	18675	27RB#0	22.00	23.59	33.00	PASS



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Band2	15MHz	16QAM	18900	1RB#0	21.87	23.46	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.99	23.58	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.07	23.66	33.00	PASS
Band2	15MHz	16QAM	18900	27RB#0	22.06	23.65	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.16	23.75	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.16	23.75	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.99	23.58	33.00	PASS
Band2	15MHz	16QAM	19125	27RB#0	22.10	23.69	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.82	24.41	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.03	24.62	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.89	24.48	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#0	22.10	23.69	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.97	23.56	33.00	PASS
Band2	20MHz	QPSK	18700	50RB#50	22.13	23.72	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.97	23.56	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.99	24.58	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.94	24.53	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.84	24.43	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#0	22.04	23.63	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#25	22.13	23.72	33.00	PASS
Band2	20MHz	QPSK	18900	50RB#50	22.12	23.71	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.85	23.44	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.87	24.46	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.92	24.51	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.16	24.75	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#0	22.12	23.71	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#25	22.09	23.68	33.00	PASS
Band2	20MHz	QPSK	19100	50RB#50	22.05	23.64	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.11	23.70	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.13	23.72	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.12	23.71	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.98	23.57	33.00	PASS
Band2	20MHz	16QAM	18700	27RB#0	22.16	23.75	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.80	23.39	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.13	23.72	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.80	23.39	33.00	PASS
Band2	20MHz	16QAM	18900	27RB#0	22.18	23.77	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.07	23.66	33.00	PASS



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Band2	20MHz	16QAM	19100	1RB#49	22.02	23.61	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.90	23.49	33.00	PASS
Band2	20MHz	16QAM	19100	27RB#0	21.85	23.44	33.00	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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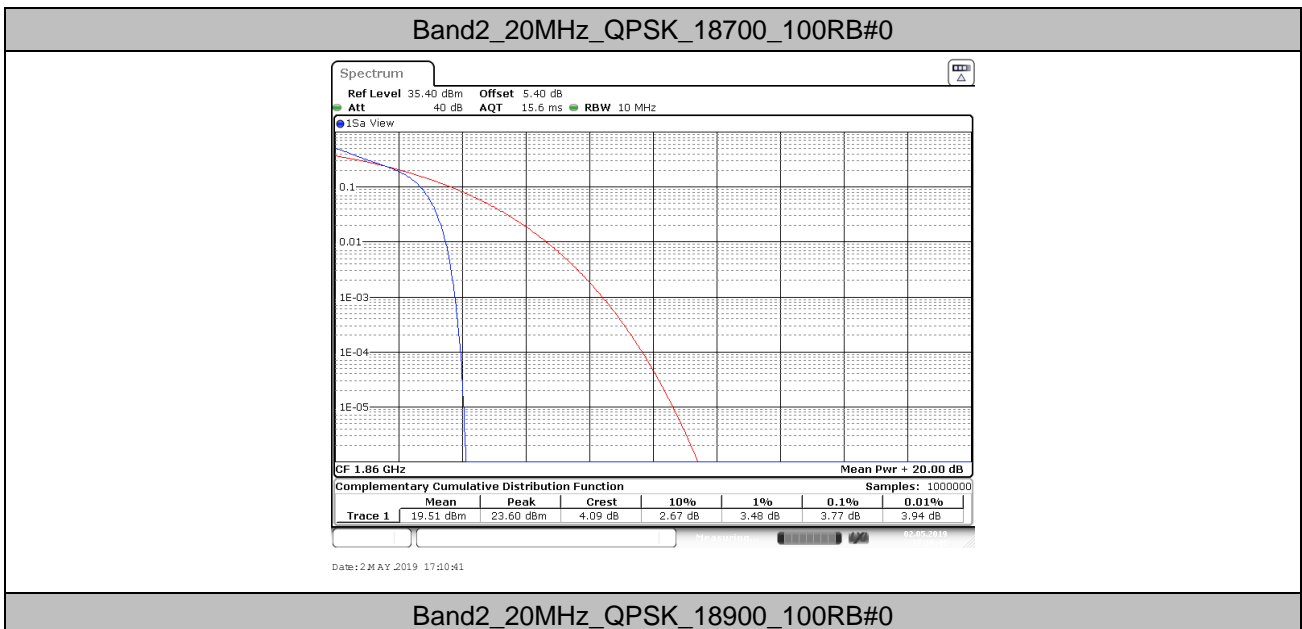
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

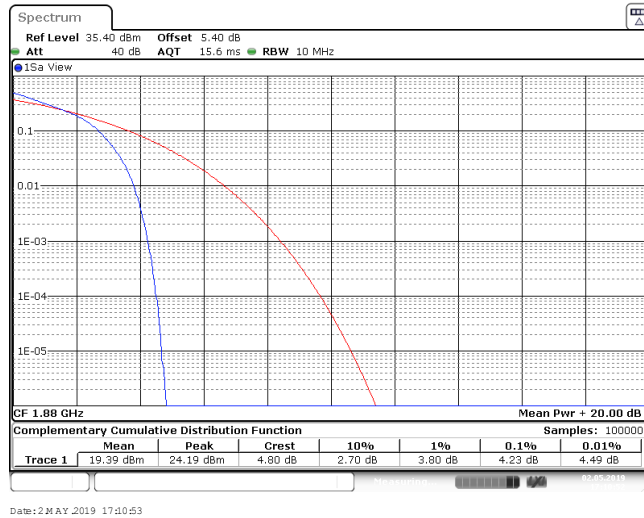
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	3.77	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.23	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.14	13	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.80	13	PASS
Band2	20MHz	16QAM	18900	27RB#0	6.17	13	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.57	13	PASS

### 2.2. Test Plots



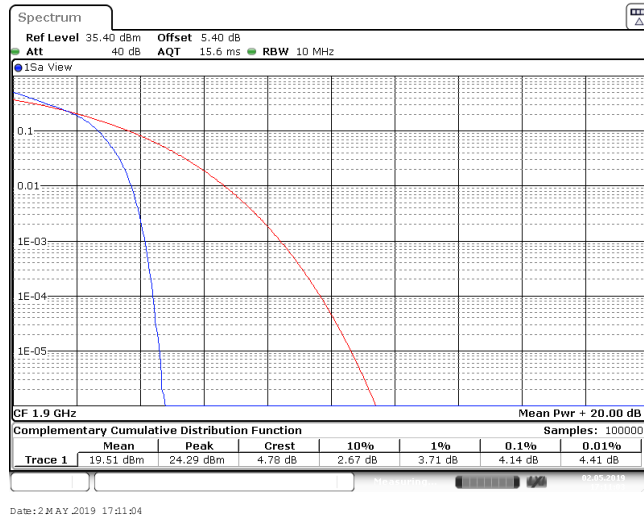
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Date: 2 MAY 2019 17:10:53

**Band2\_20MHz\_QPSK\_19100\_100RB#0**

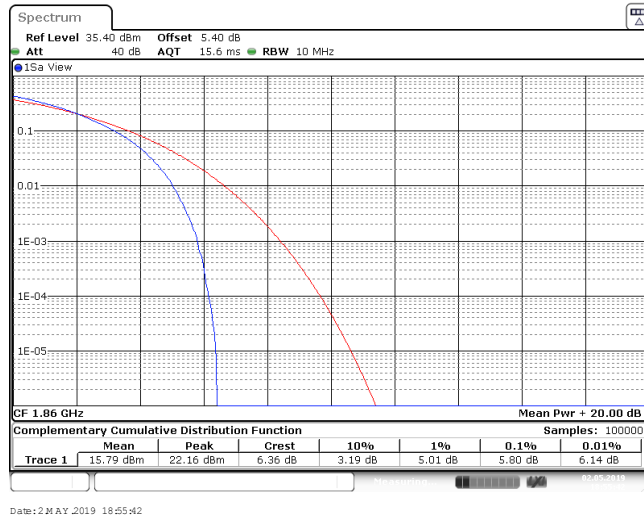


Date: 2 MAY 2019 17:11:04

**Band2\_20MHz\_16QAM\_18700\_27RB#0**

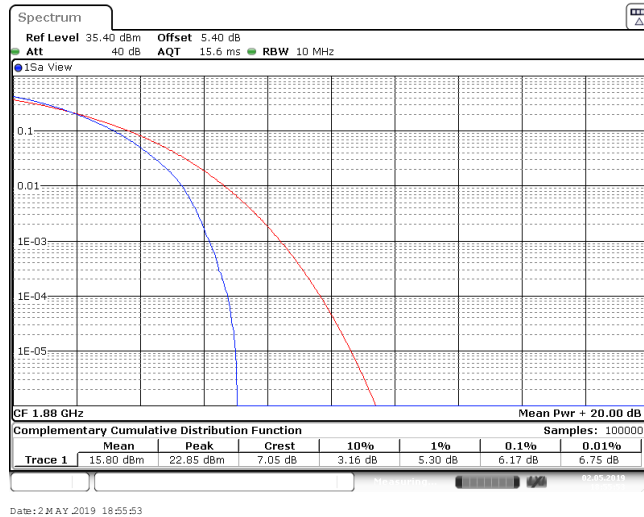


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Date: 2 MAY 2019 18:55:42

**Band2\_20MHz\_16QAM\_18900\_27RB#0**



Date: 2 MAY 2019 18:55:53

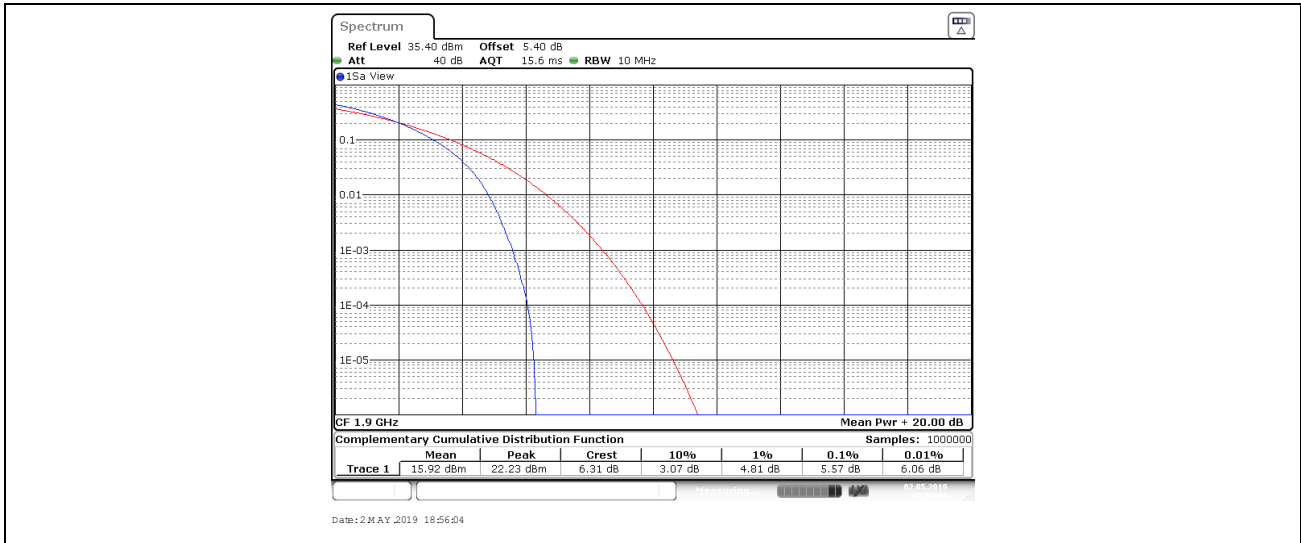
**Band2\_20MHz\_16QAM\_19100\_27RB#0**



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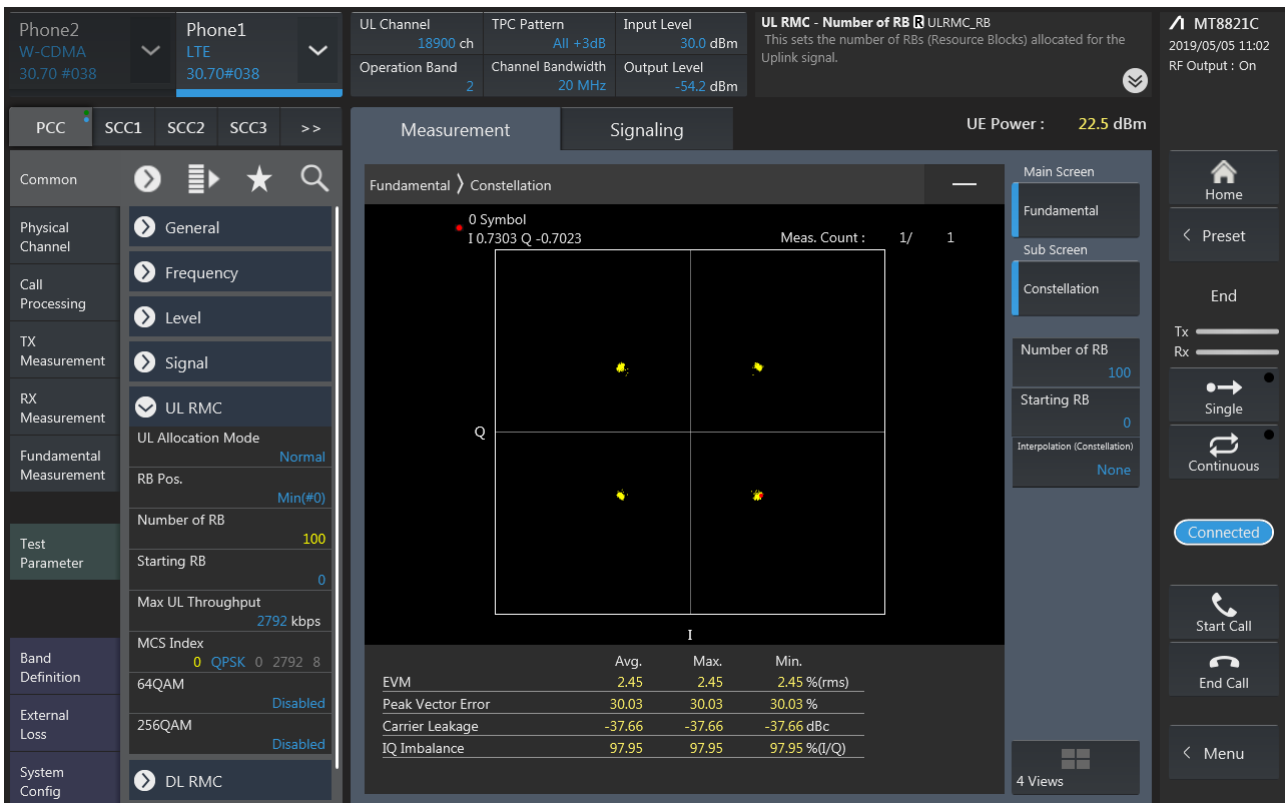


### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE Band 2

#### 3.2. Test Mode = LTE /TM1 20MHz

#### 3.2.1. Test Channel = MCH



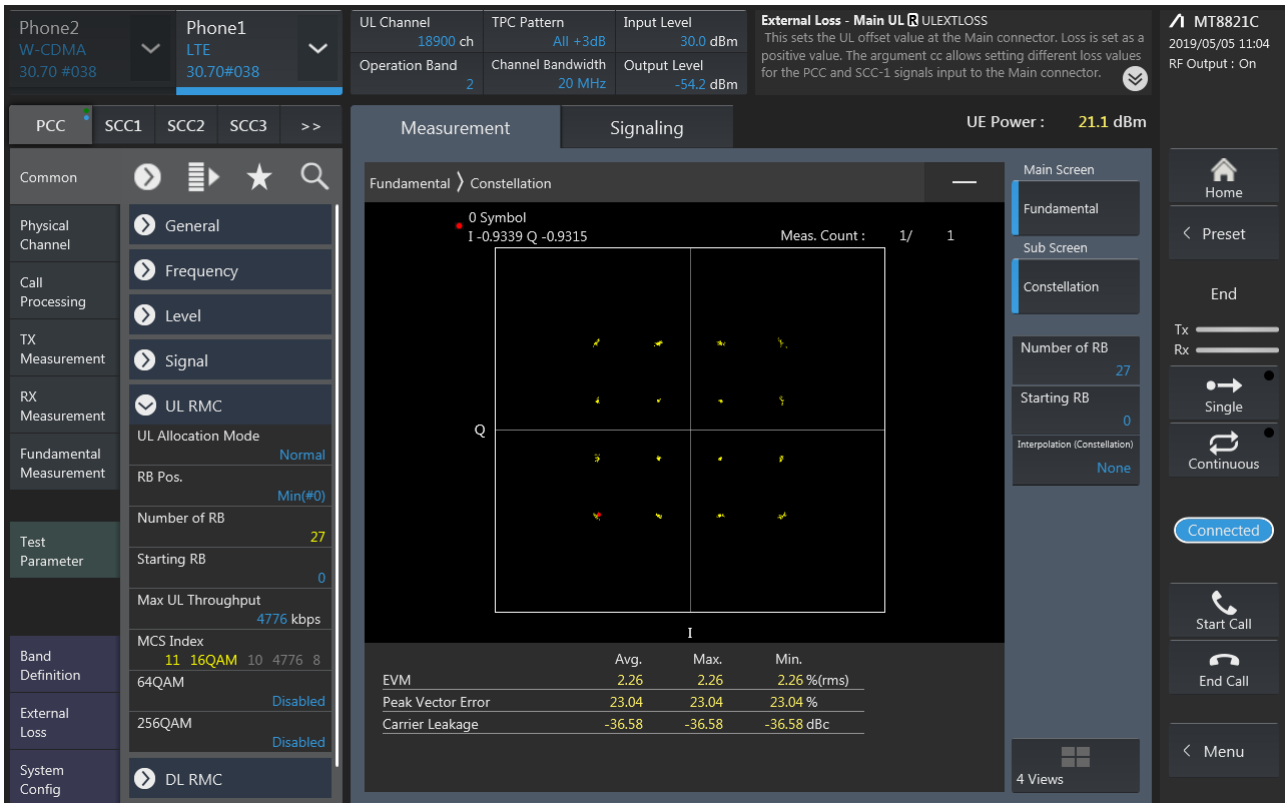
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### 3.3. Test Mode = LTE /TM2 20MHz

#### 3.3.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.088	1.242	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.088	1.233	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.088	1.239	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.088	1.242	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.088	1.236	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.088	1.236	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.697	3.006	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.697	3.012	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.697	2.994	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.685	2.982	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.685	2.982	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.685	2.982	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.466	4.900	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.466	4.900	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.466	4.910	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.486	4.930	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.486	4.920	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.486	4.920	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.931	9.660	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.931	9.700	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.931	9.740	PASS
Band2	10MHz	16QAM	18650	27RB#0	4.875	5.680	PASS
Band2	10MHz	16QAM	18900	27RB#0	4.875	5.720	PASS
Band2	10MHz	16QAM	19150	27RB#0	4.855	5.680	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.457	14.820	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.487	14.760	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.457	14.670	PASS
Band2	15MHz	16QAM	18675	27RB#0	5.065	6.060	PASS
Band2	15MHz	16QAM	18900	27RB#0	5.065	6.120	PASS
Band2	15MHz	16QAM	19125	27RB#0	5.035	6.060	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.862	19.440	PASS



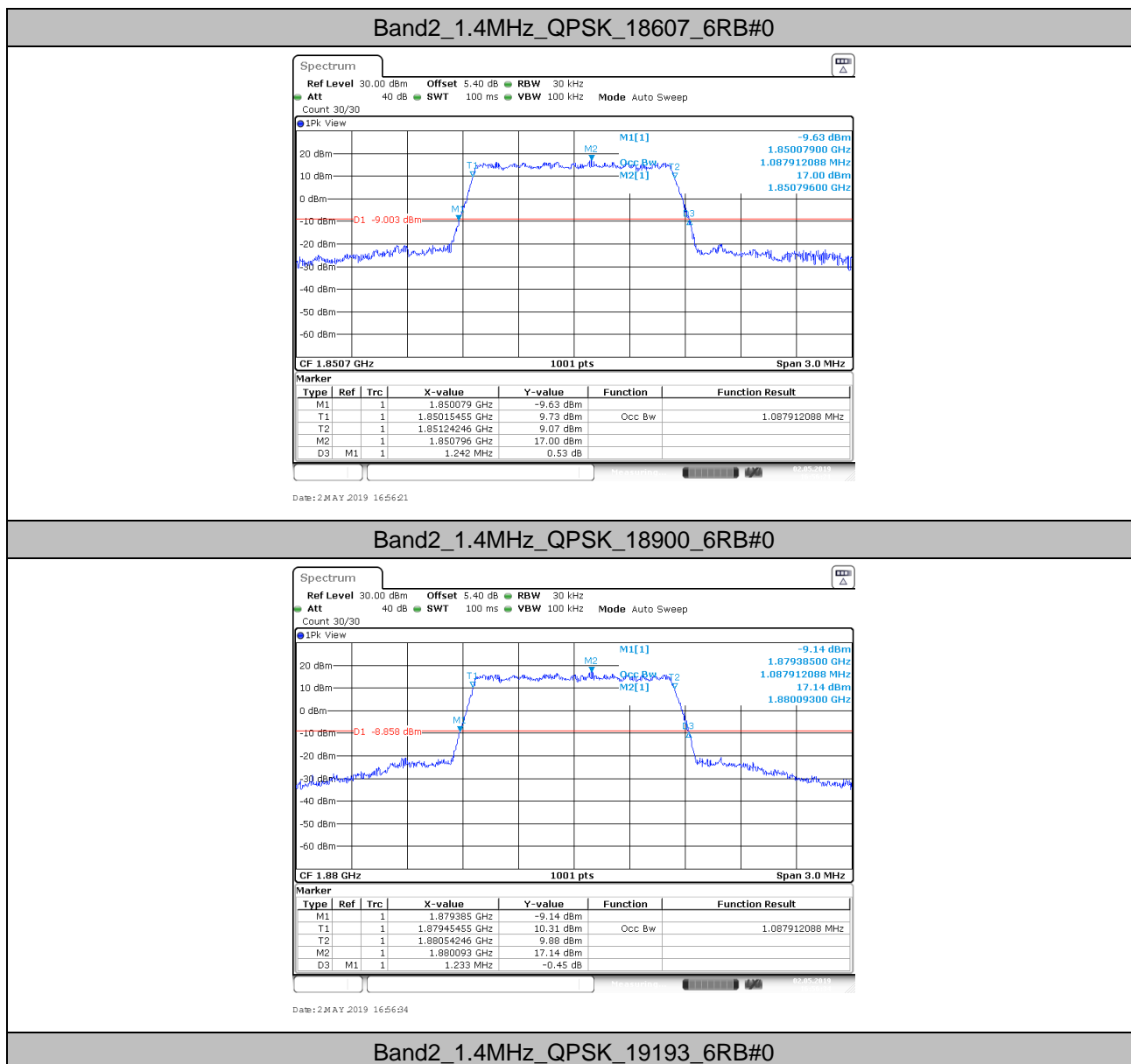
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Band2	20MHz	QPSK	18900	100RB#0	17.902	19.480	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.862	19.440	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.155	6.440	PASS
Band2	20MHz	16QAM	18900	27RB#0	5.155	6.480	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.115	6.280	PASS

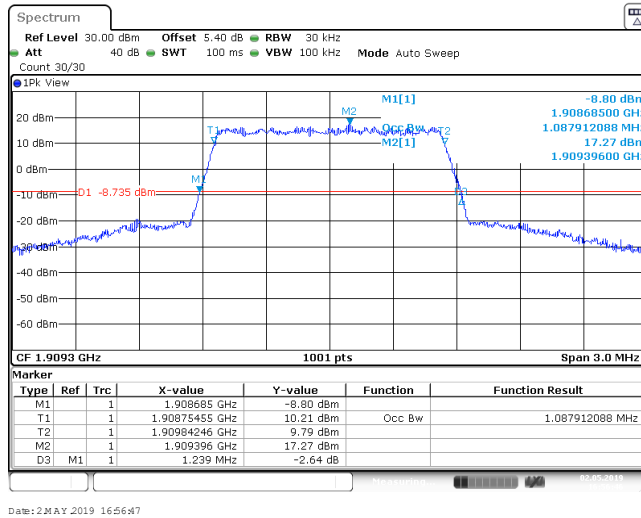
## 4.2. Test Plots



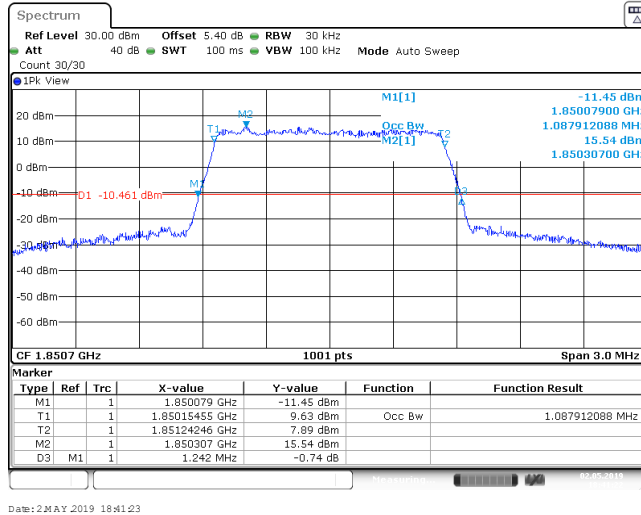
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**Band2\_1.4MHz\_16QAM\_18607\_6RB#0**

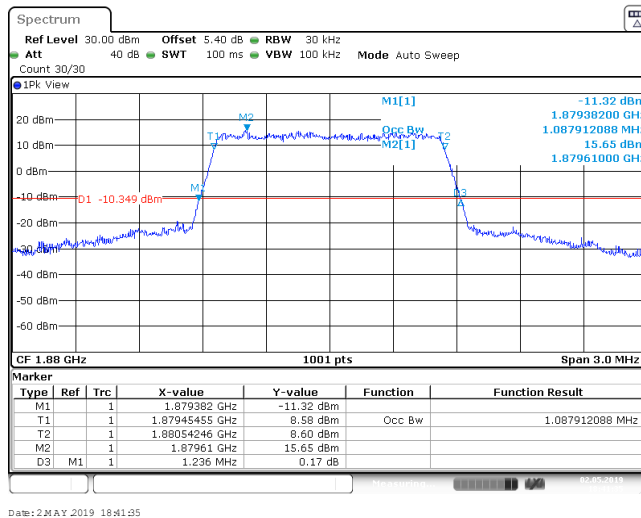


**Band2\_1.4MHz\_16QAM\_18900\_6RB#0**

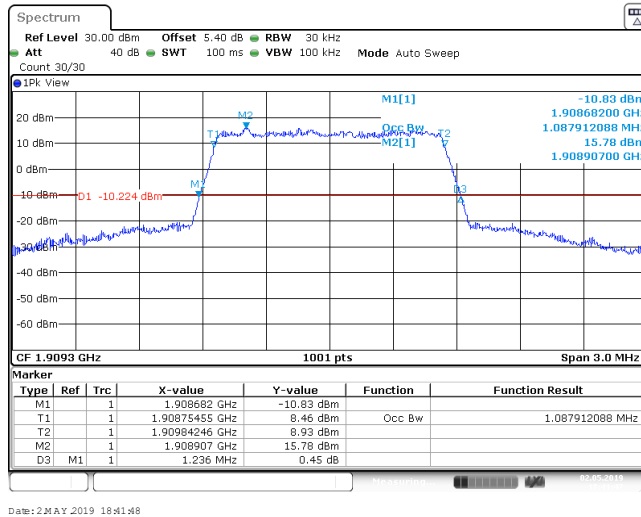


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**Band2\_1.4MHz\_16QAM\_19193\_6RB#0**



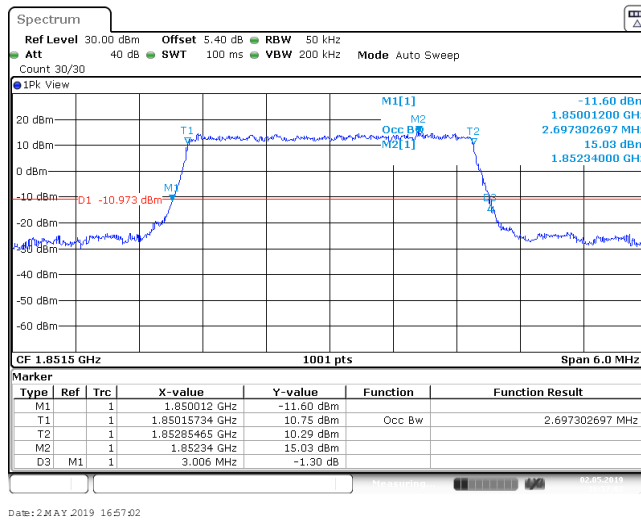
**Band2\_3MHz\_QPSK\_18615\_15RB#0**



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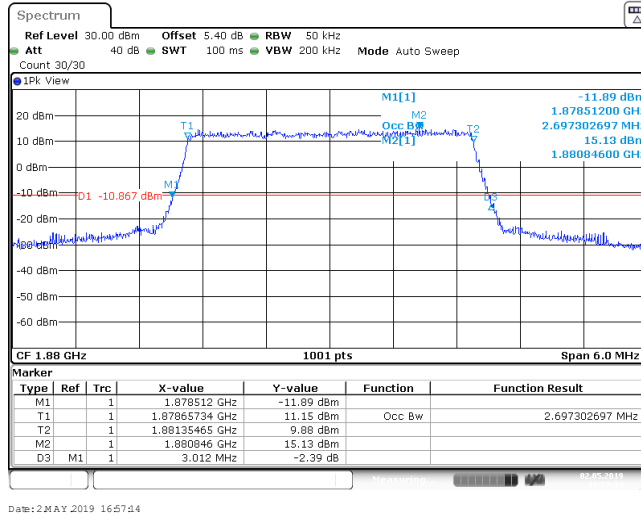
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Date: 2 MAY 2019 16:57:02

**Band2\_3MHz\_QPSK\_18900\_15RB#0**



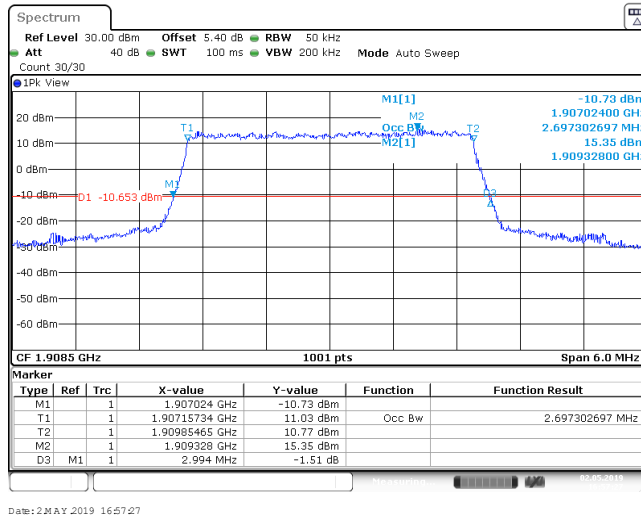
Date: 2 MAY 2019 16:57:04

**Band2\_3MHz\_QPSK\_19185\_15RB#0**

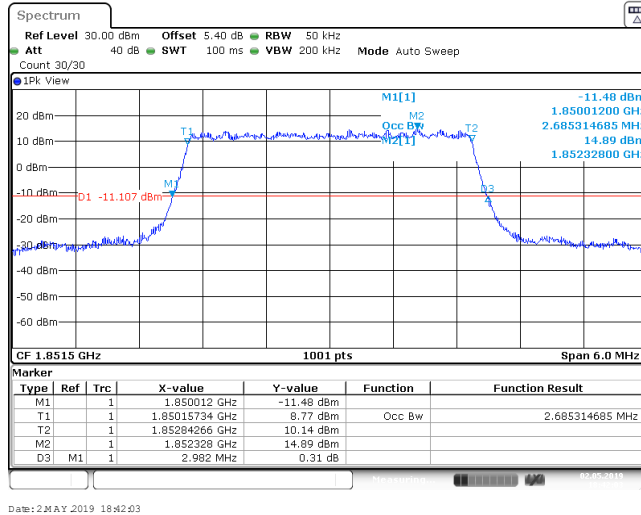


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**Band2\_3MHz\_16QAM\_18615\_15RB#0**

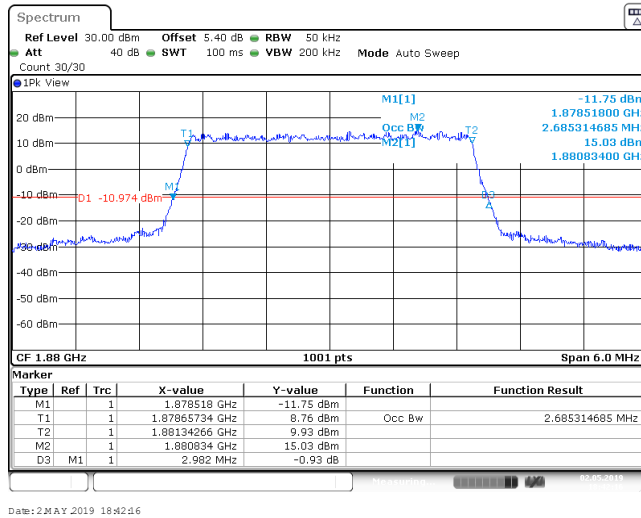


**Band2\_3MHz\_16QAM\_18900\_15RB#0**



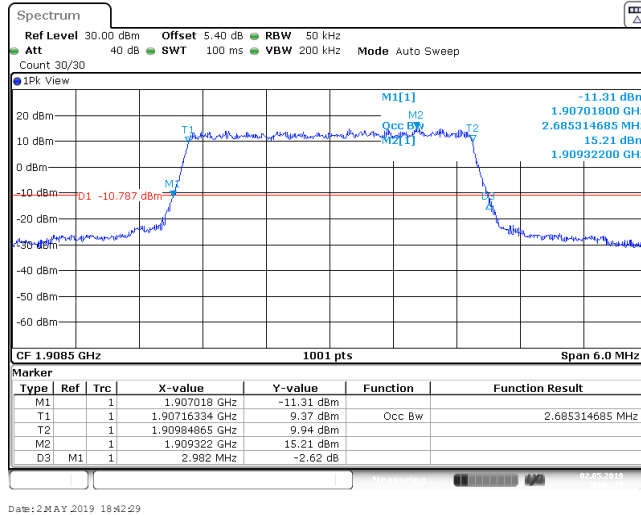
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Date: 2 MAY 2019 18:42:16

**Band2\_3MHz\_16QAM\_19185\_15RB#0**

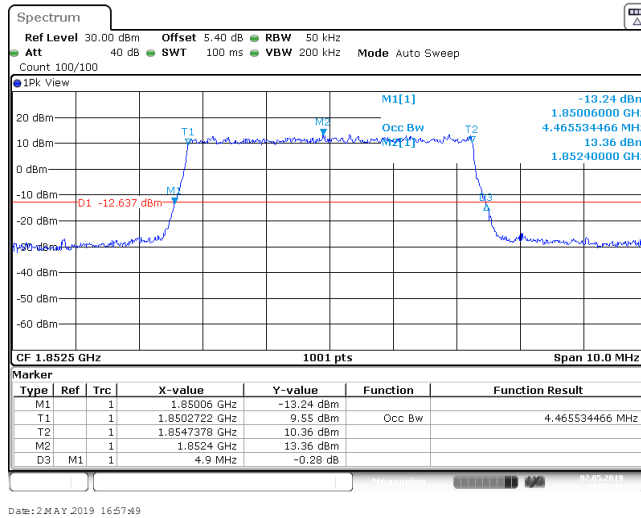


Date: 2 MAY 2019 18:42:29

**Band2\_5MHz\_QPSK\_18625\_25RB#0**

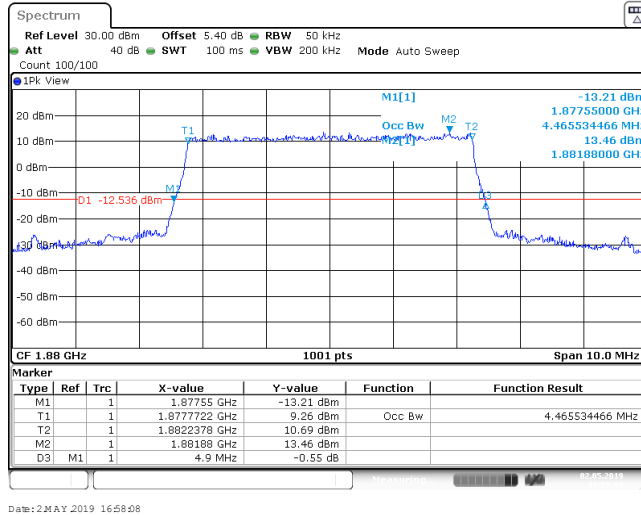


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Date: 2 MAY 2019 16:57:49

**Band2\_5MHz\_QPSK\_18900\_25RB#0**

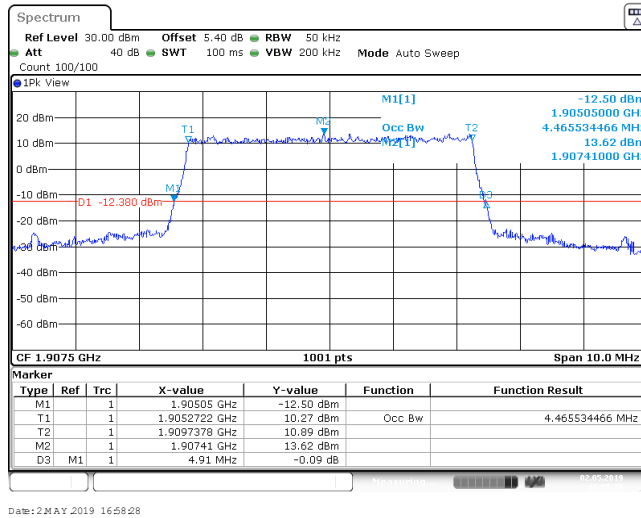


Date: 2 MAY 2019 16:58:28

**Band2\_5MHz\_QPSK\_19175\_25RB#0**

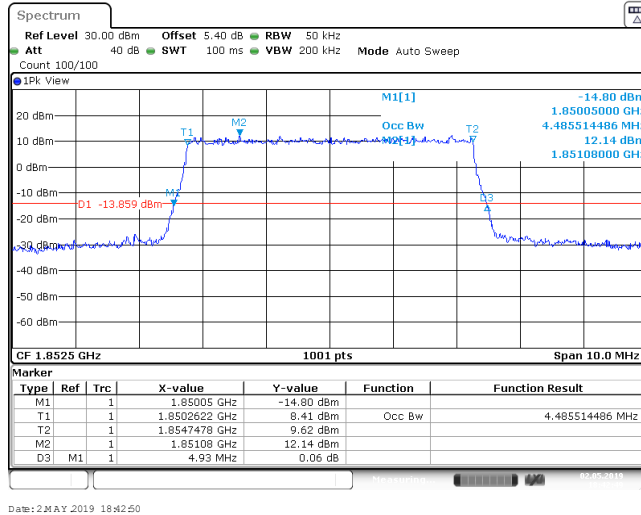


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Date: 2 MAY 2019 16:58:28

**Band2\_5MHz\_16QAM\_18625\_25RB#0**



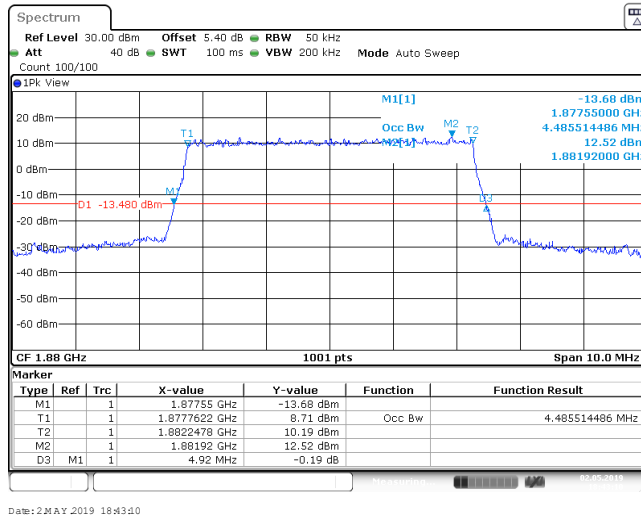
Date: 2 MAY 2019 18:42:50

**Band2\_5MHz\_16QAM\_18900\_25RB#0**



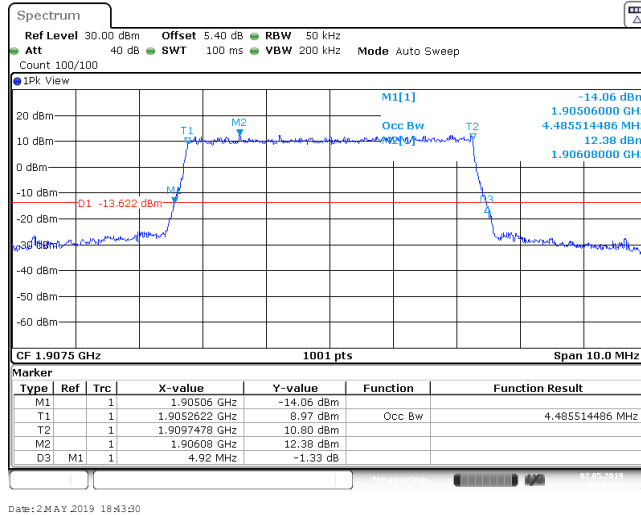
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Date: 2 MAY 2019 18:33:00

**Band2\_5MHz\_16QAM\_19175\_25RB#0**

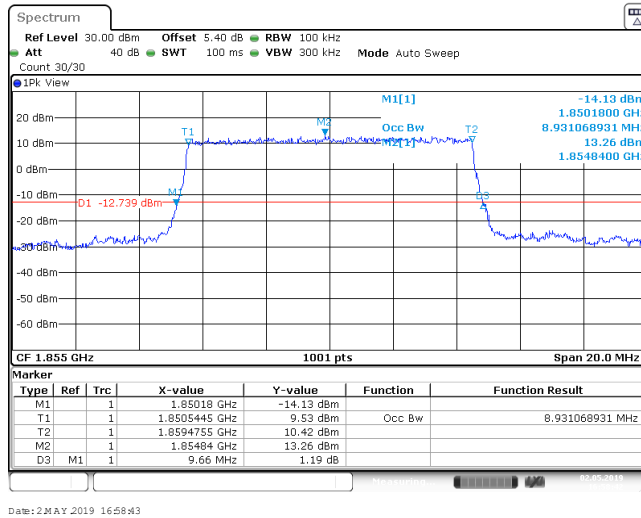


Date: 2 MAY 2019 18:33:00

**Band2\_10MHz\_QPSK\_18650\_50RB#0**

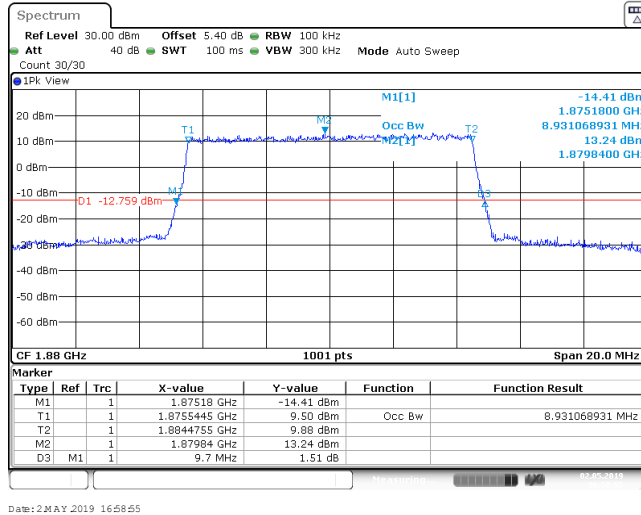


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Date: 2 MAY 2019 16:58:43

**Band2\_10MHz\_QPSK\_18900\_50RB#0**

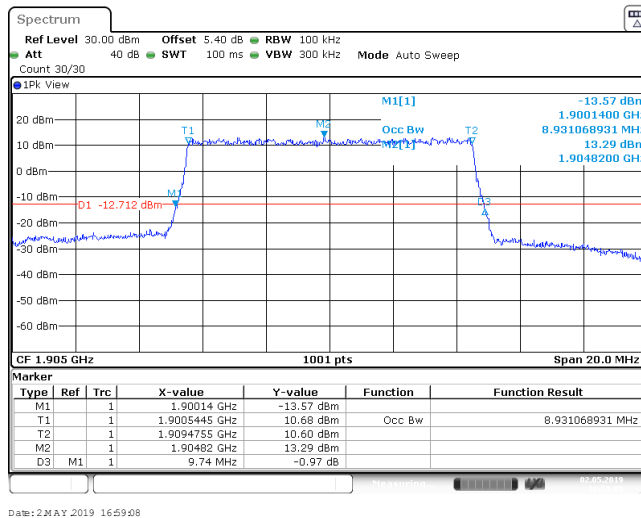


Date: 2 MAY 2019 16:58:55

**Band2\_10MHz\_QPSK\_19150\_50RB#0**

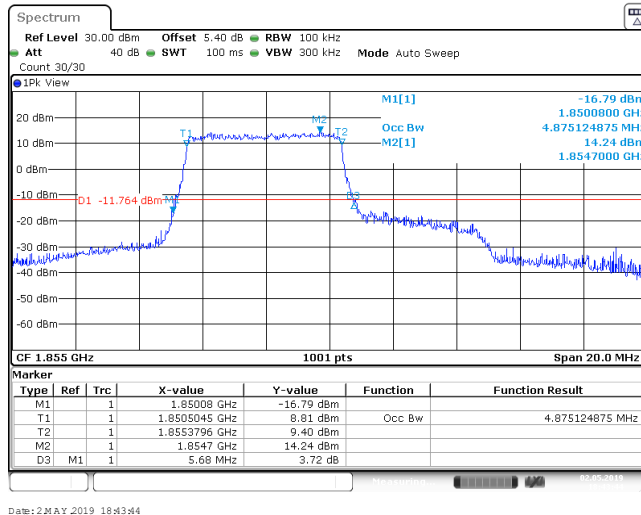


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Date: 2 MAY 2019 16:59:08

**Band2\_10MHz\_16QAM\_18650\_27RB#0**

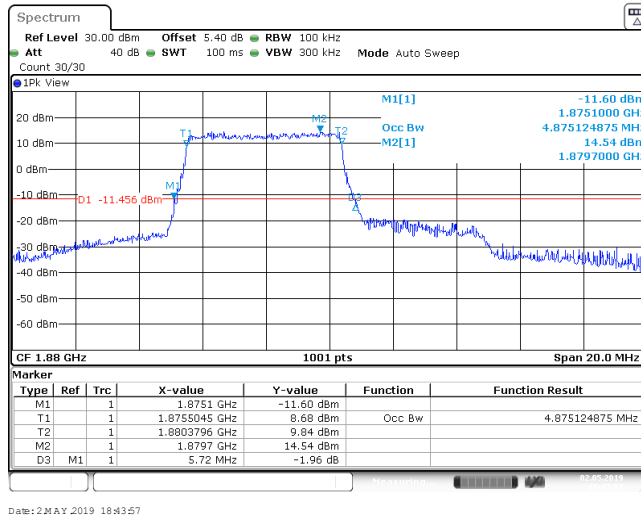


Date: 2 MAY 2019 18:33:44

**Band2\_10MHz\_16QAM\_18900\_27RB#0**

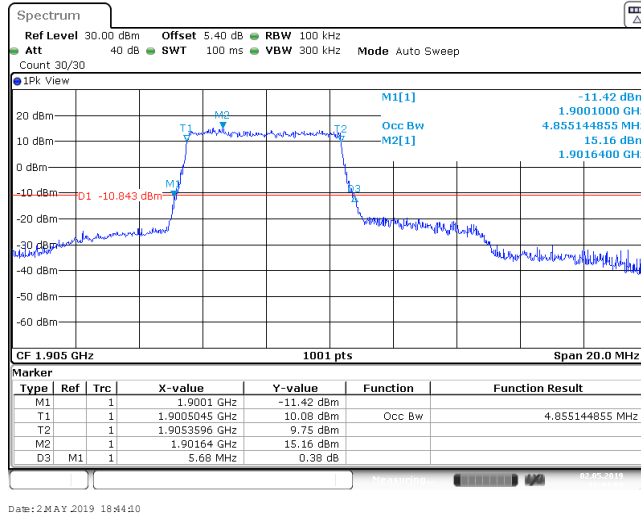


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Date: 2 MAY 2019 18:43:57

**Band2\_10MHz\_16QAM\_19150\_27RB#0**



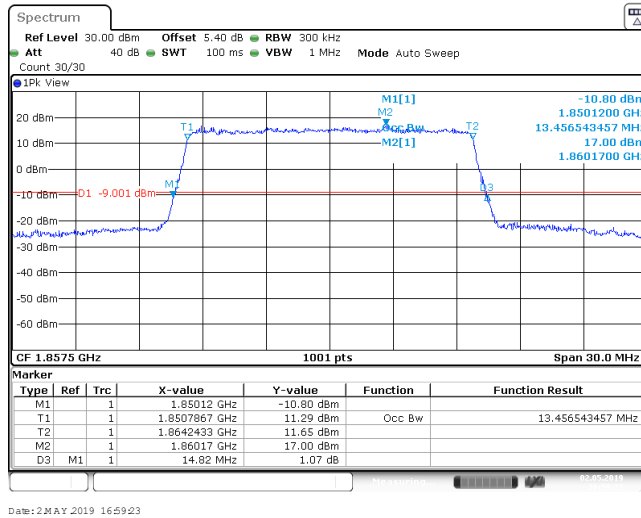
Date: 2 MAY 2019 18:44:00

**Band2\_15MHz\_QPSK\_18675\_75RB#0**



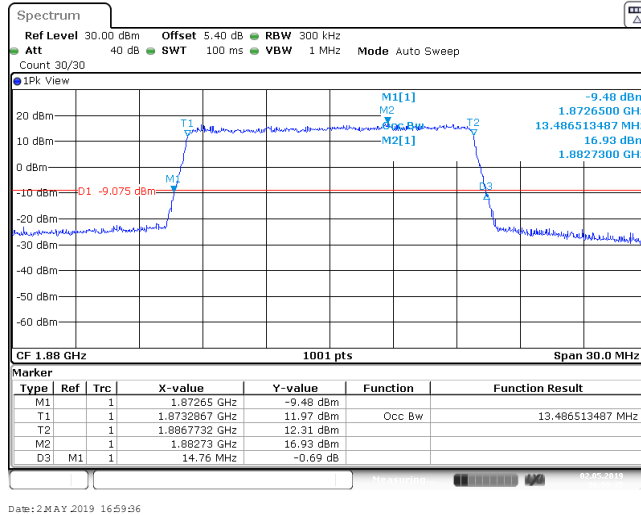
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Date: 2 MAY 2019 16:59:23

**Band2\_15MHz\_QPSK\_18900\_75RB#0**

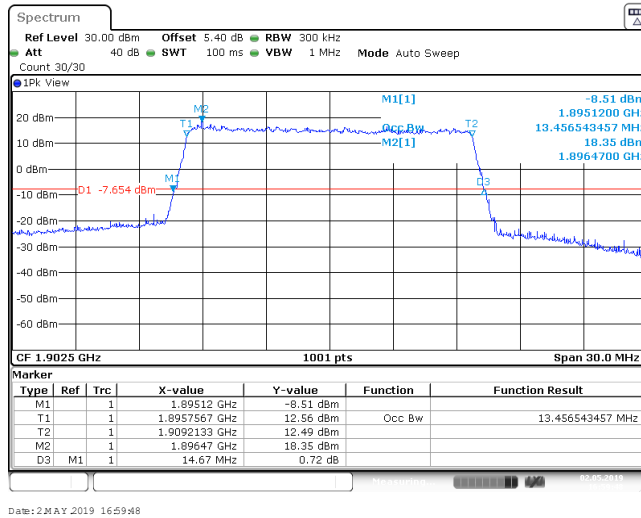


Date: 2 MAY 2019 16:59:26

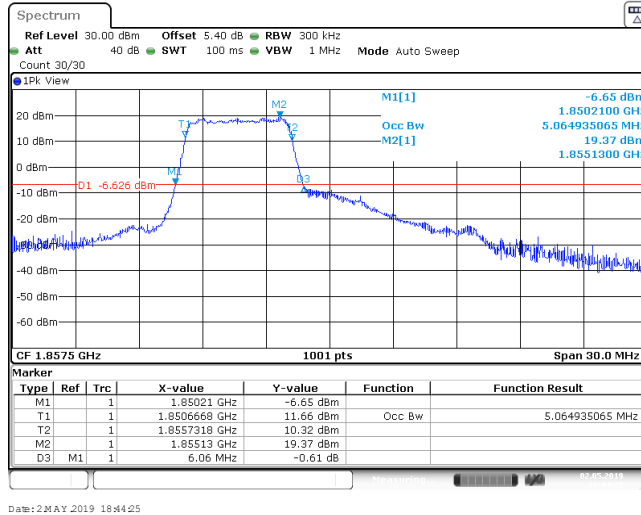
**Band2\_15MHz\_QPSK\_19125\_75RB#0**



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**Band2\_15MHz\_16QAM\_18675\_27RB#0**

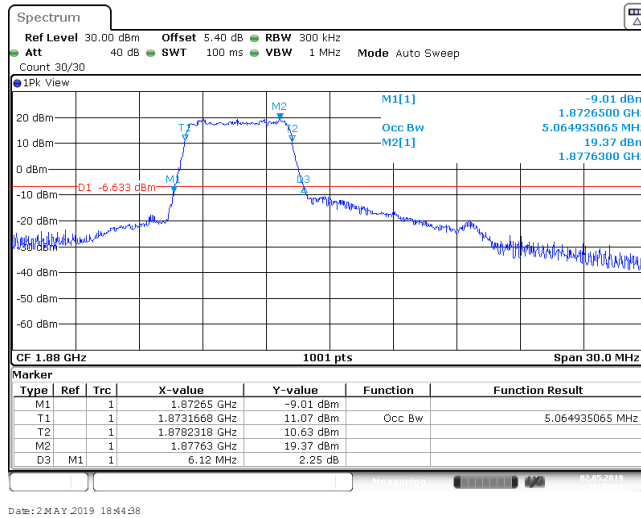


**Band2\_15MHz\_16QAM\_18900\_27RB#0**

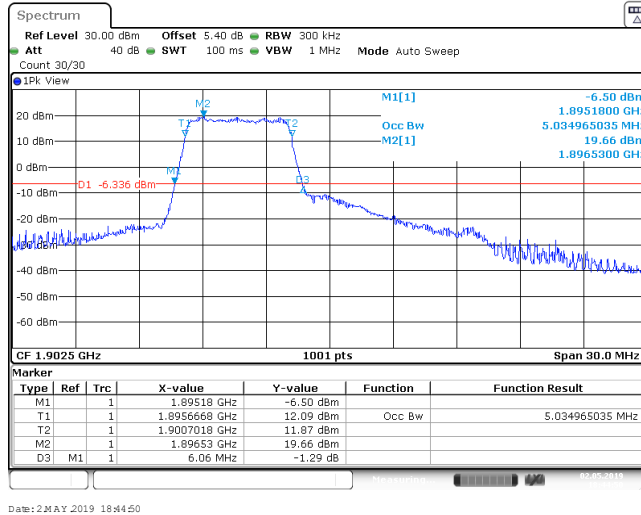


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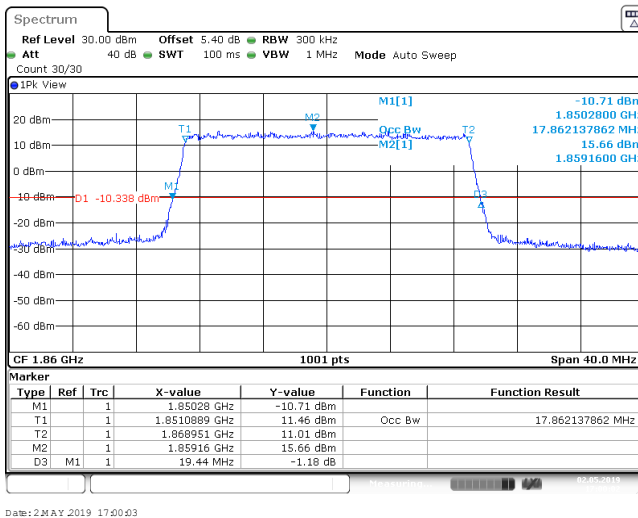
**Band2\_15MHz\_16QAM\_19125\_27RB#**



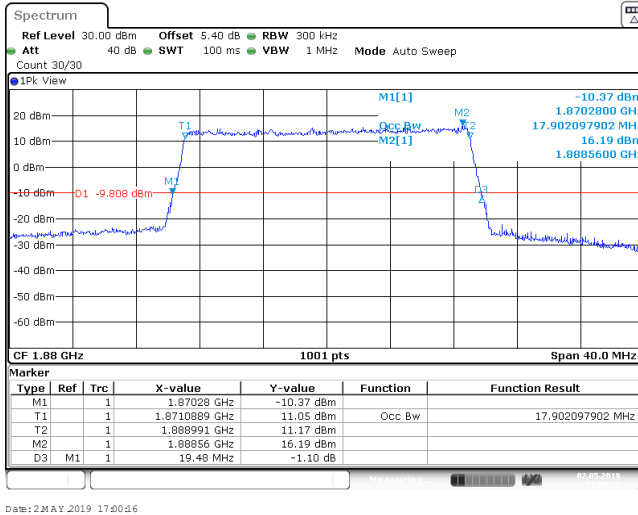
**Band2\_20MHz\_QPSK\_18700\_100RB#**



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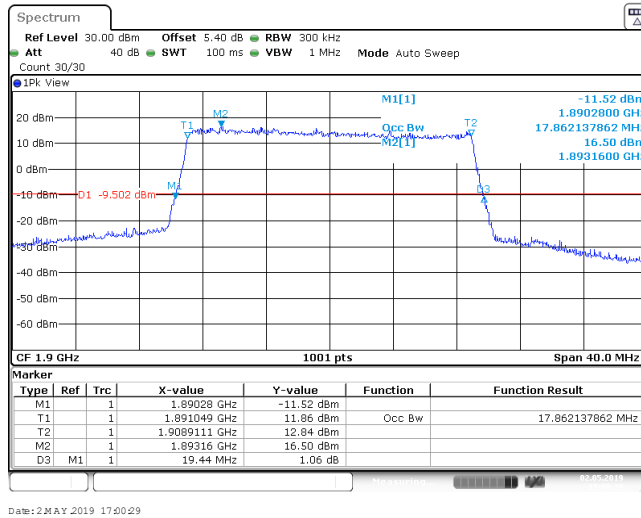
**Band2\_20MHz\_QPSK\_18900\_100RB#**



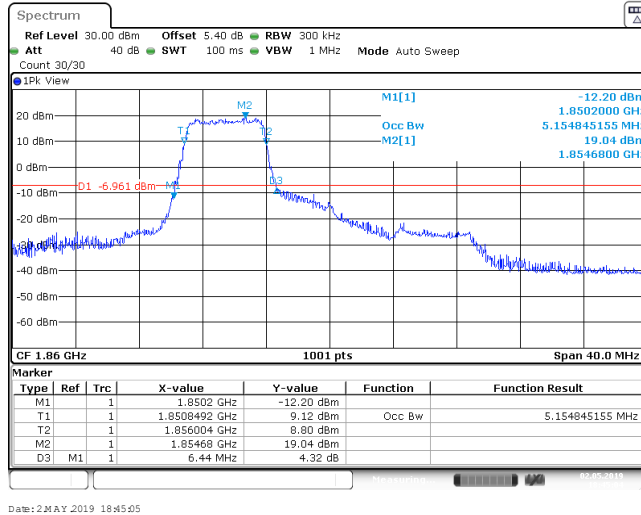
**Band2\_20MHz\_QPSK\_19100\_100RB#**







**Band2\_20MHz\_16QAM\_18700\_27RB#0**



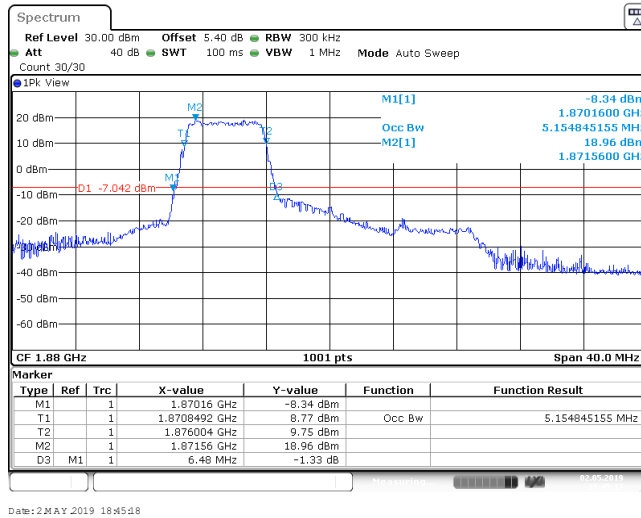
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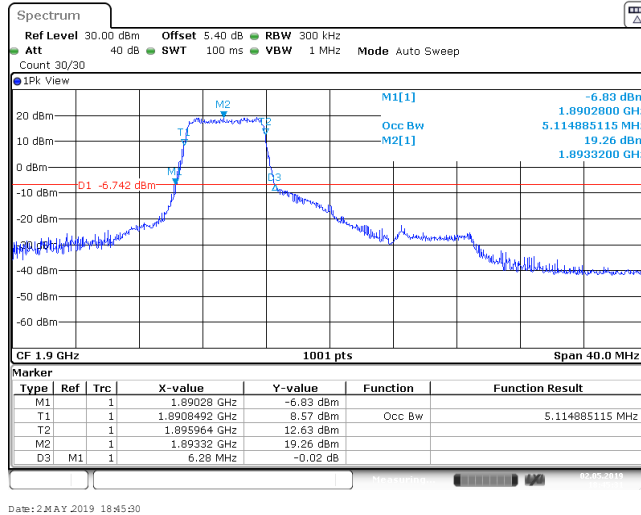
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 2 MAY 2019 18:54:8

**Band2\_20MHz\_16QAM\_19100\_27RB#0**



Date: 2 MAY 2019 18:55:0

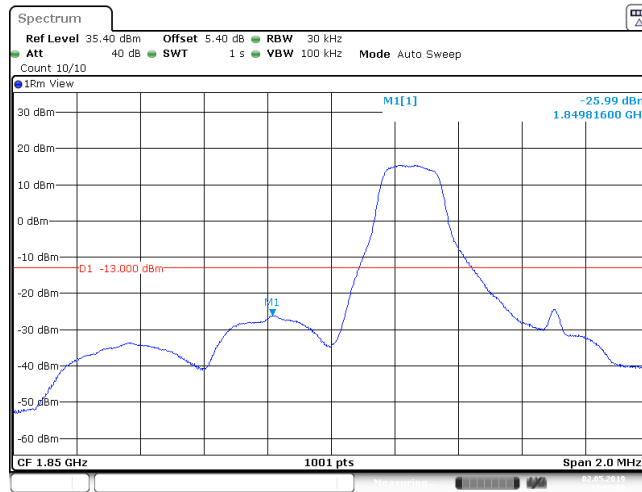


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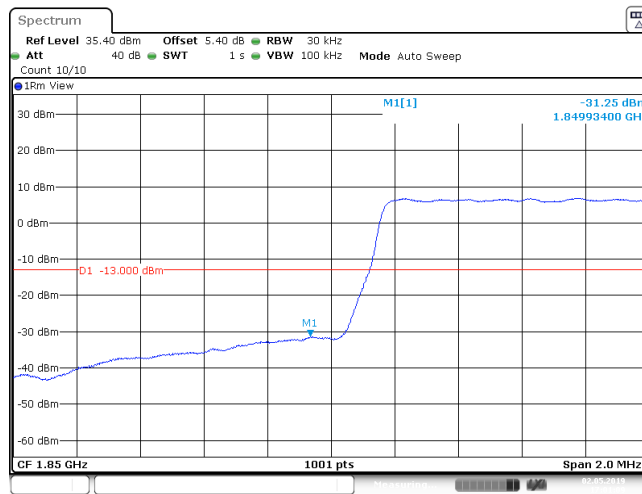
## 5. Band Edge Compliance

### 5.1. Test Plots

**Band2\_1.4MHz\_QPSK\_18607\_1RB#0**



**Band2\_1.4MHz\_QPSK\_18607\_6RB#0**

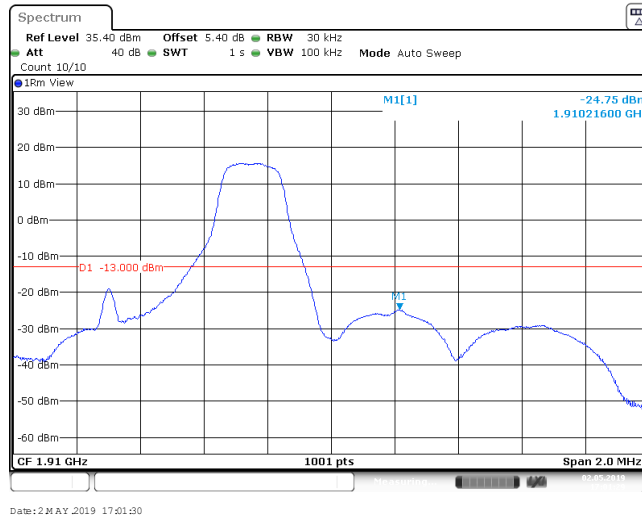


**Band2\_1.4MHz\_QPSK\_19193\_1RB#5**

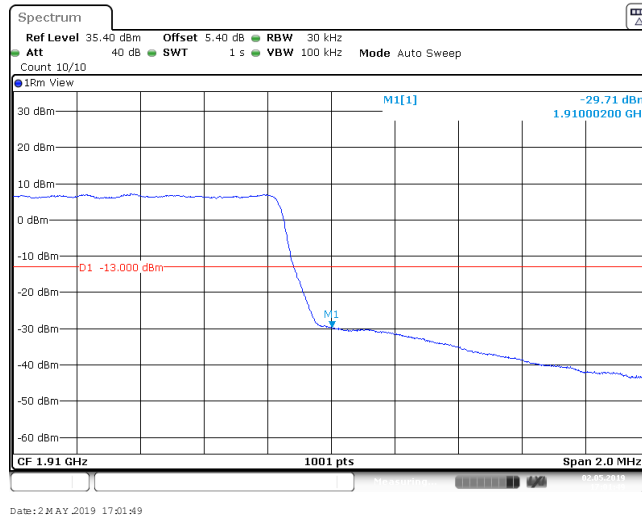


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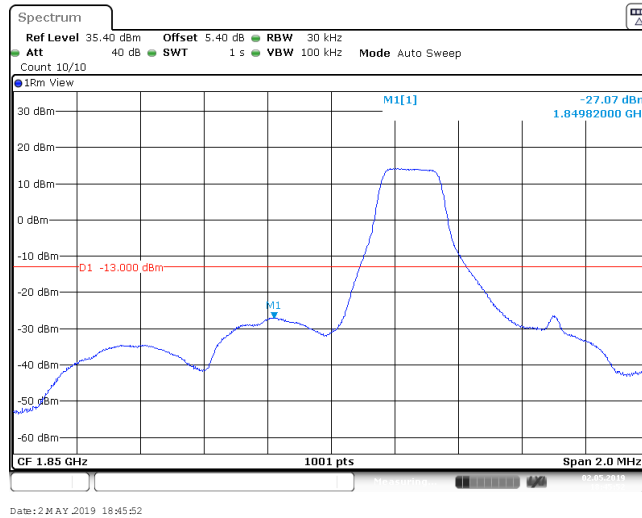


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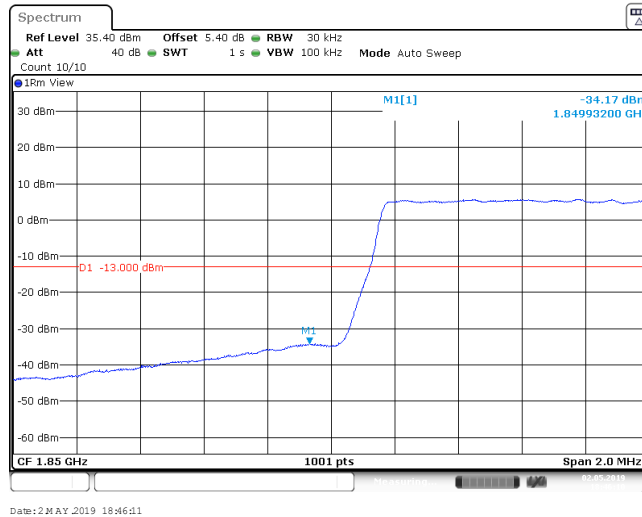


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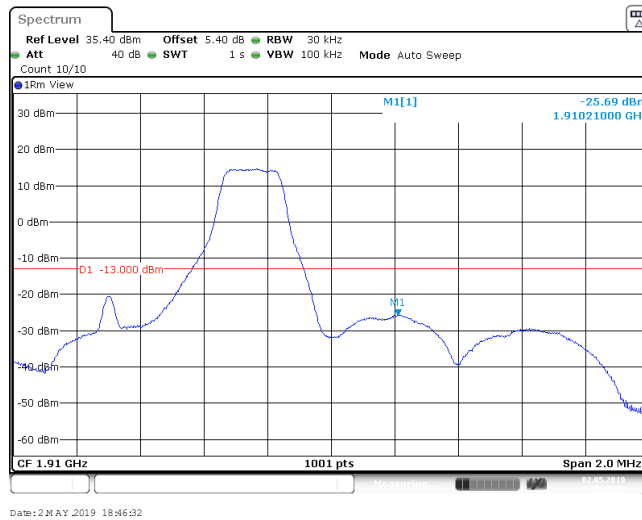
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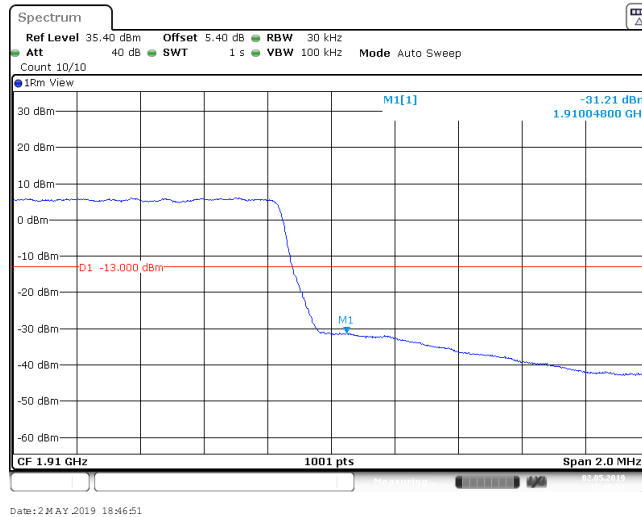
**Band2\_1.4MHz\_16QAM\_19193\_1RB#5**



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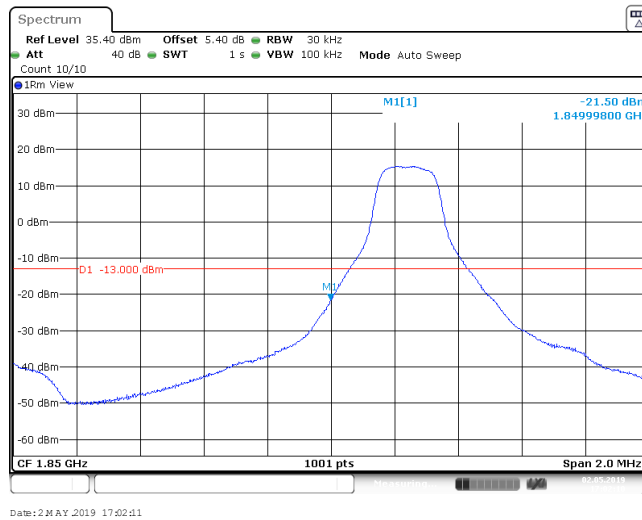
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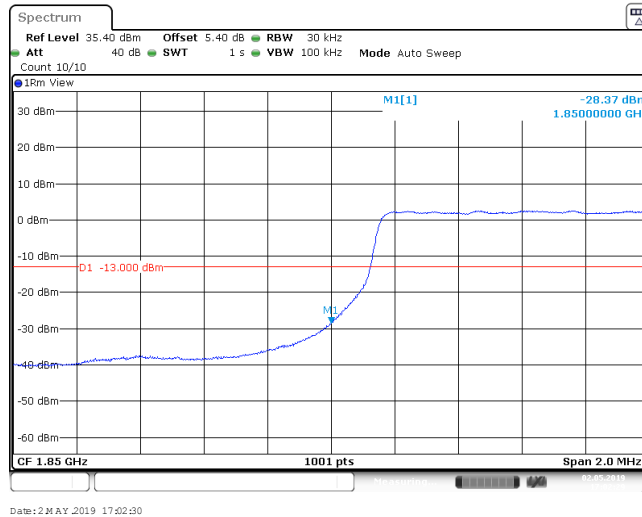
**Band2\_3MHz\_QPSK\_18615\_1RB#0**



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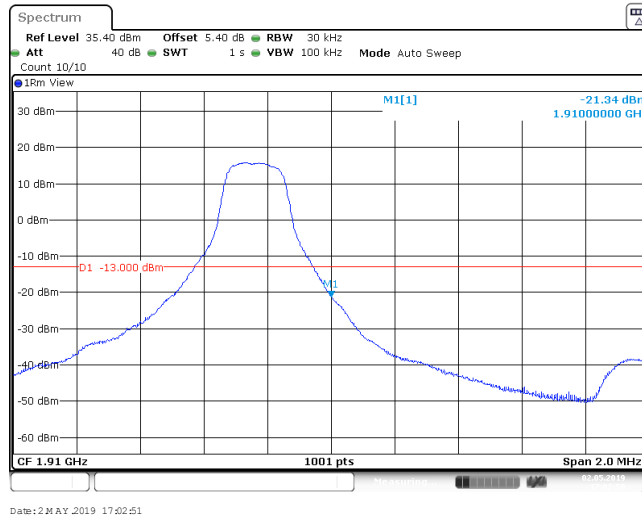
**Band2\_3MHz\_QPSK\_18615\_15RB#0**



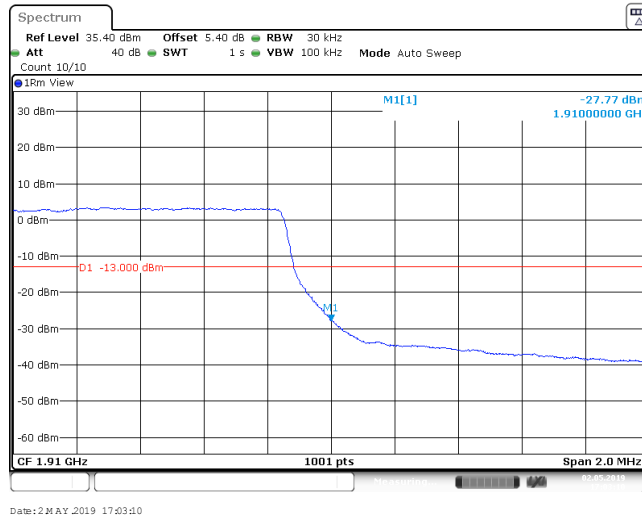
**Band2\_3MHz\_QPSK\_19185\_1RB#14**



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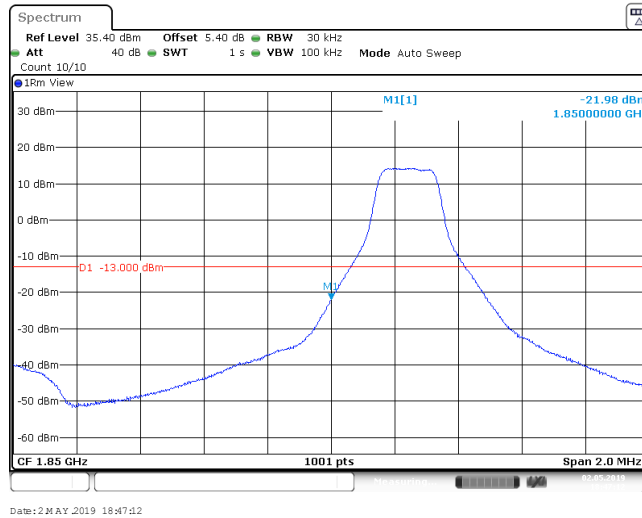


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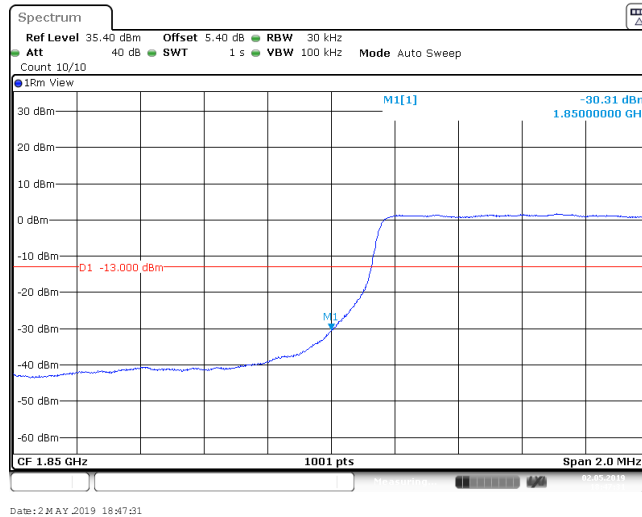


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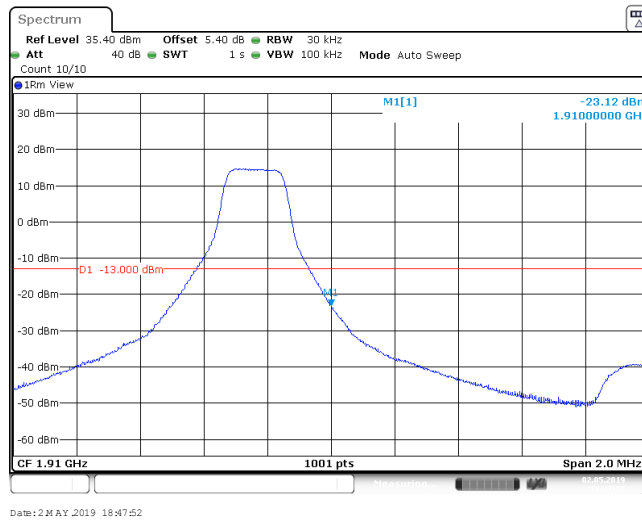
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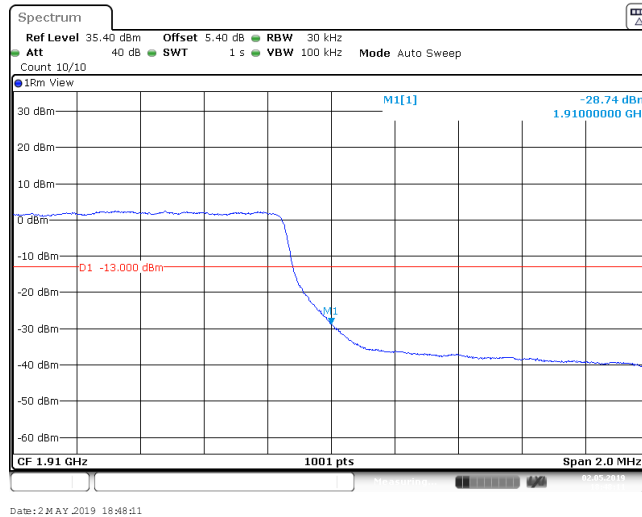
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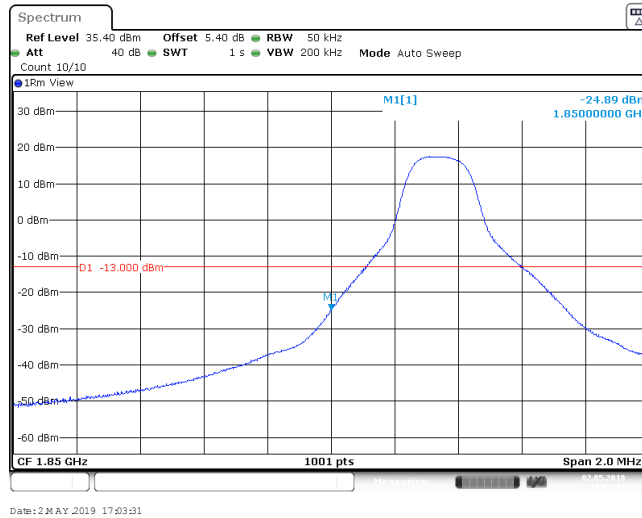
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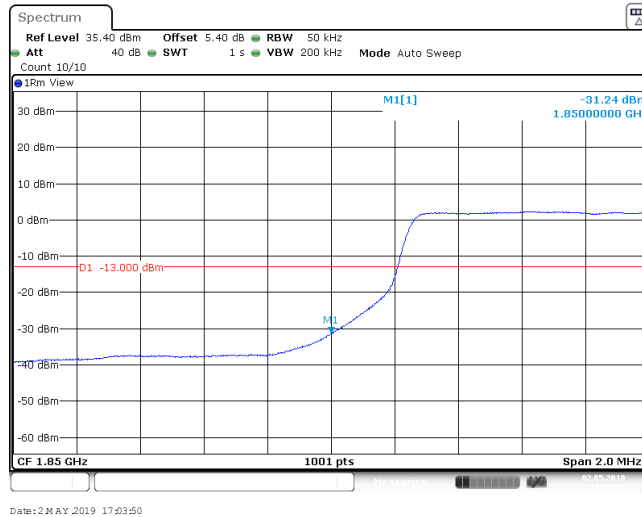
**Band2\_5MHz\_QPSK\_18625\_1RB#0**



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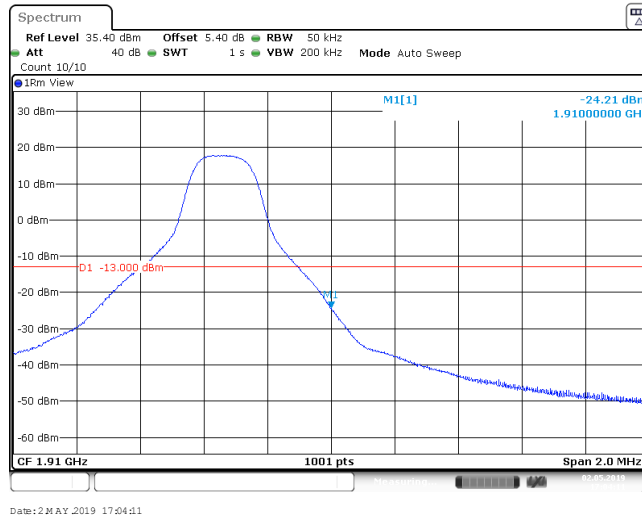
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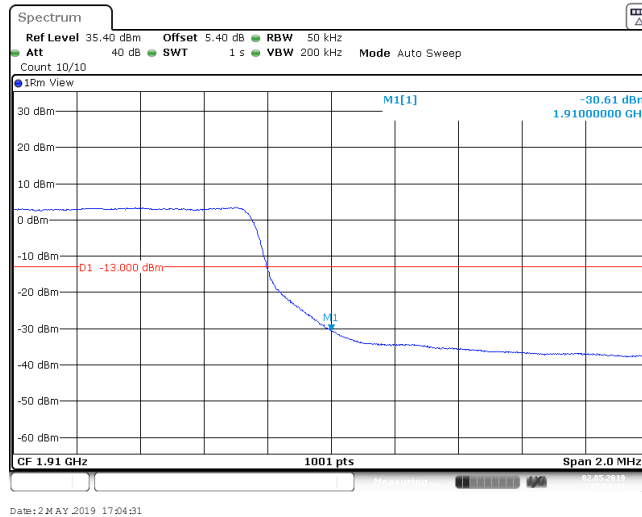
**Band2\_5MHz\_QPSK\_19175\_1RB#24**



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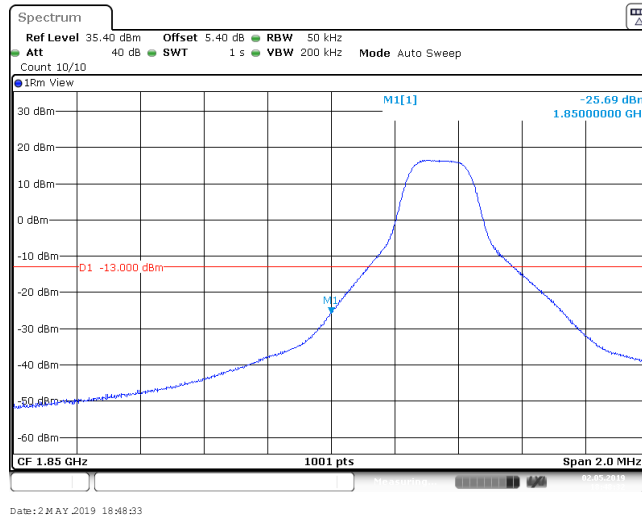
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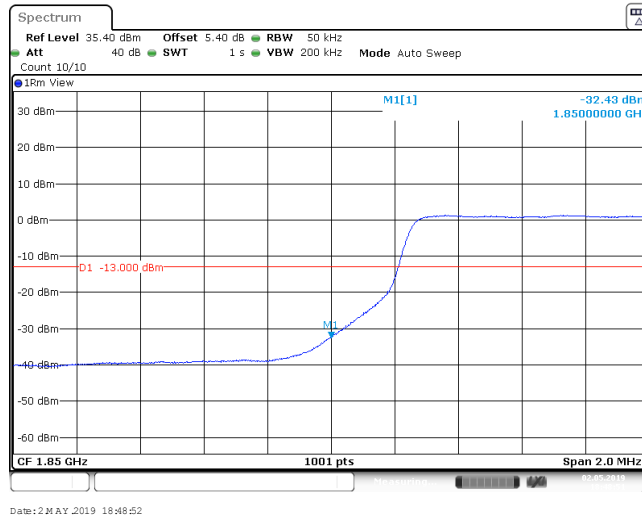
**Band2\_5MHz\_16QAM\_18625\_1RB#0**



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**Band2\_5MHz\_16QAM\_18625\_25RB#0**

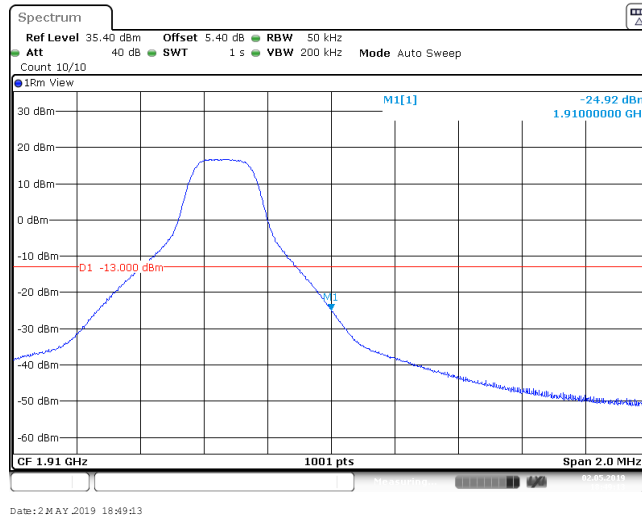


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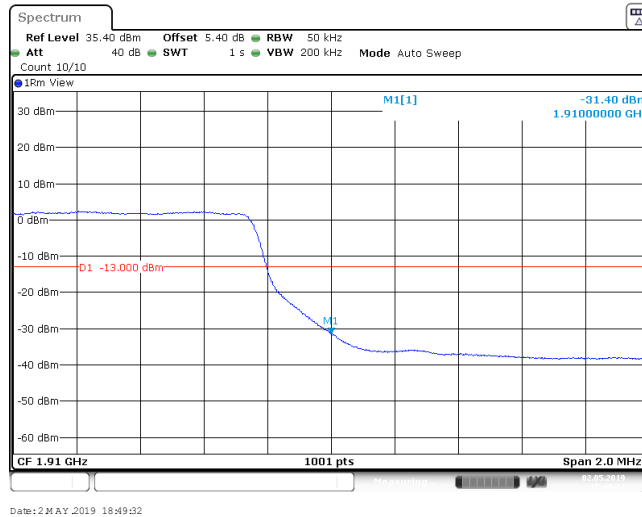


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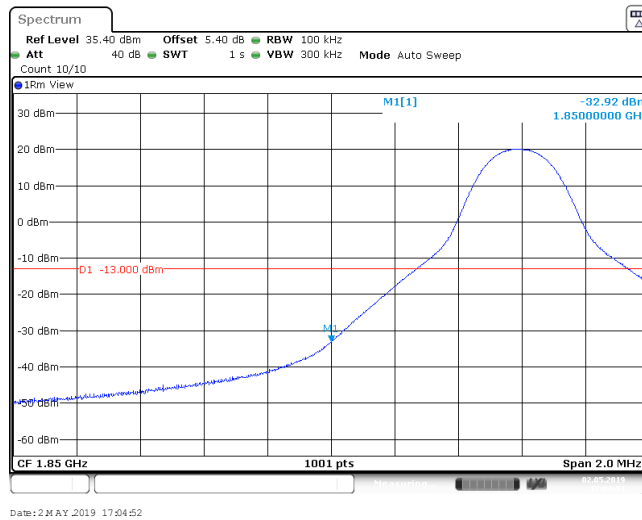


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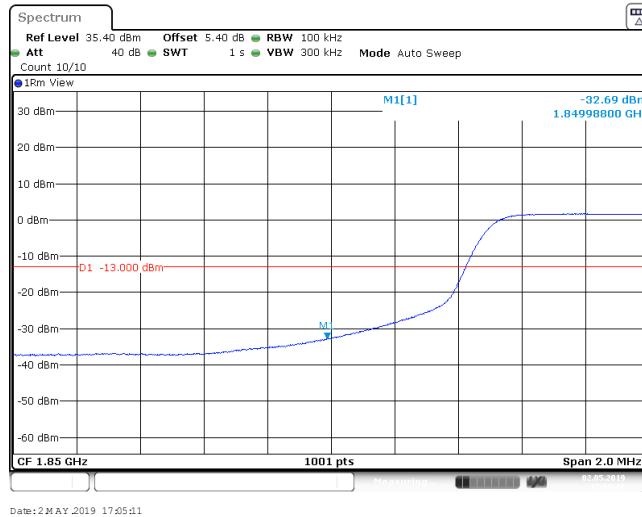


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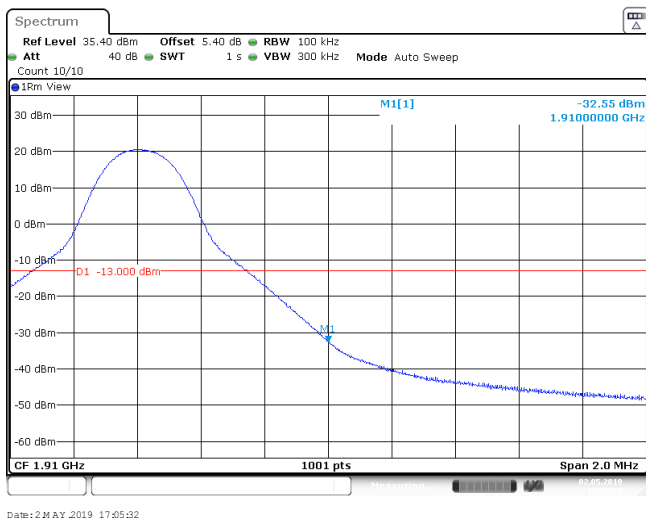
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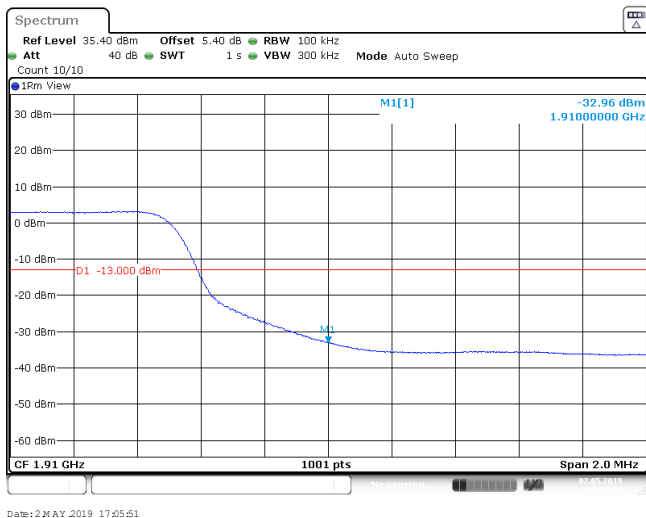
**Band2\_10MHz\_QPSK\_19150\_1RB#49**



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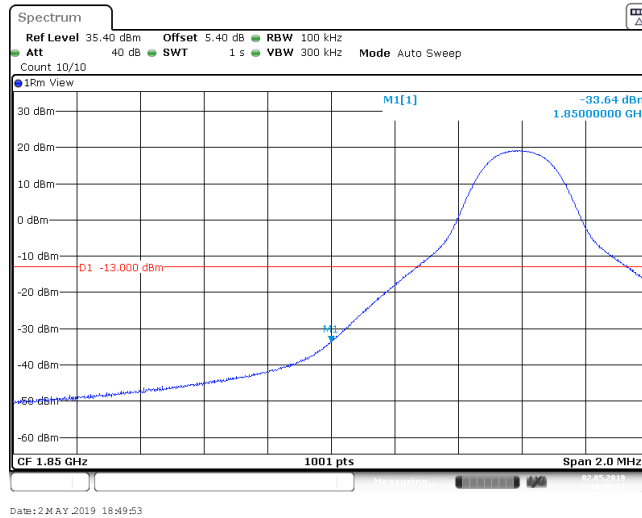
**Band2\_10MHz\_QPSK\_19150\_50RB#0**



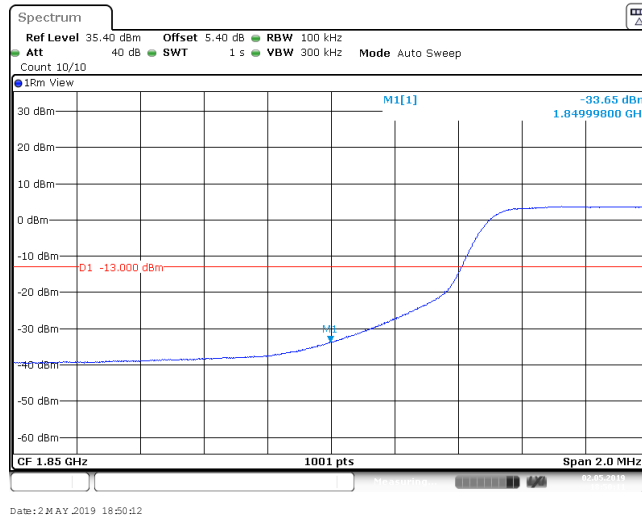
**Band2\_10MHz\_16QAM\_18650\_1RB#0**



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**Band2\_10MHz\_16QAM\_18650\_27RB#0**

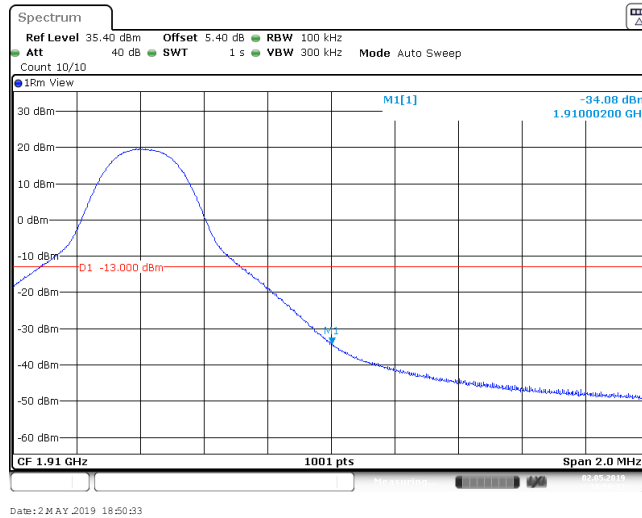


**Band2\_10MHz\_16QAM\_19150\_1RB#49**

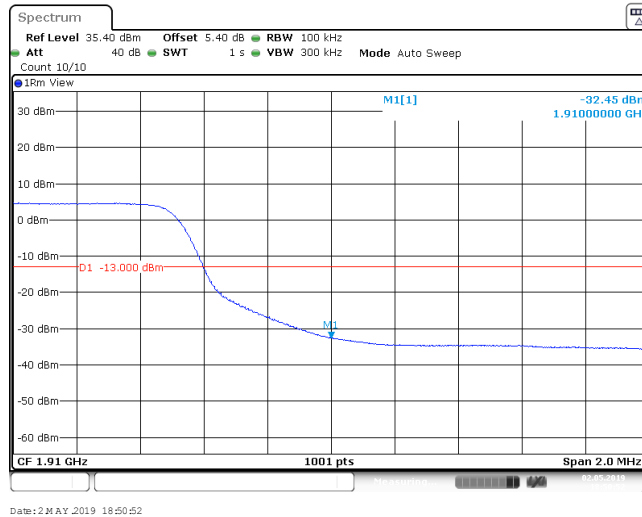


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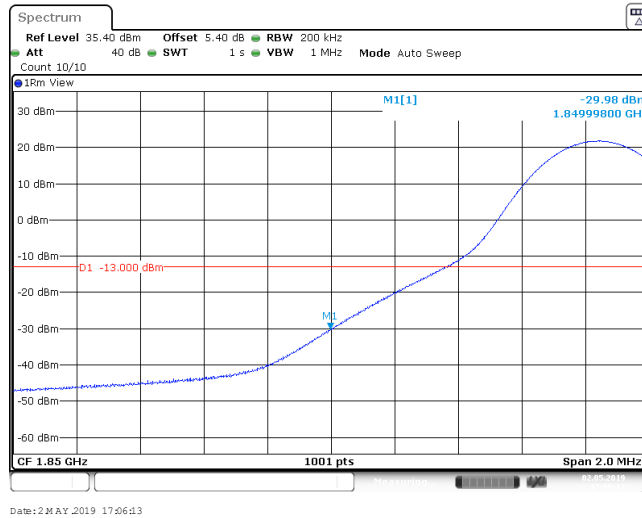
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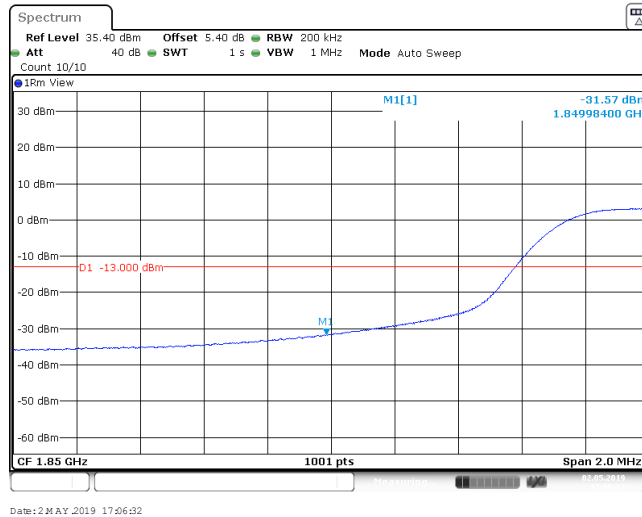
**Band2\_15MHz\_QPSK\_18675\_1RB#0**



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**Band2\_15MHz\_QPSK\_18675\_75RB#0**

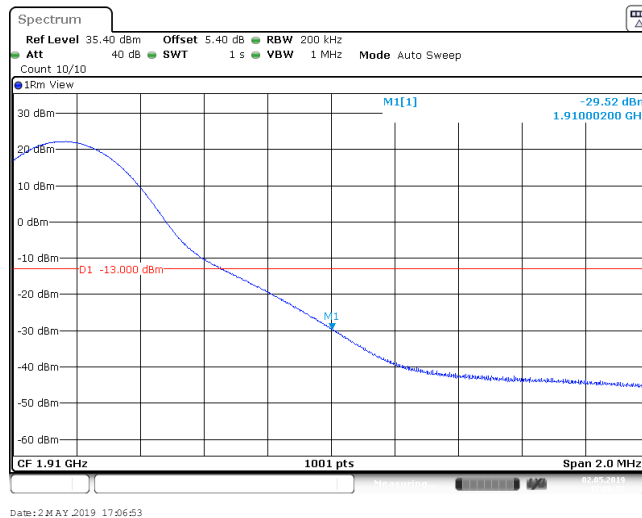


**Band2\_15MHz\_QPSK\_19125\_1RB#74**

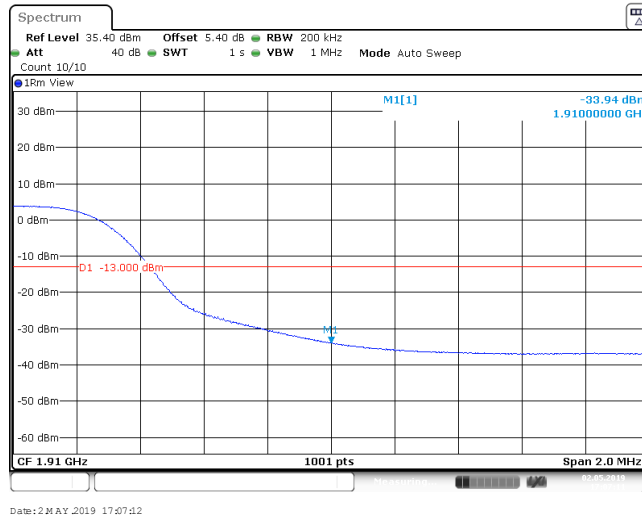


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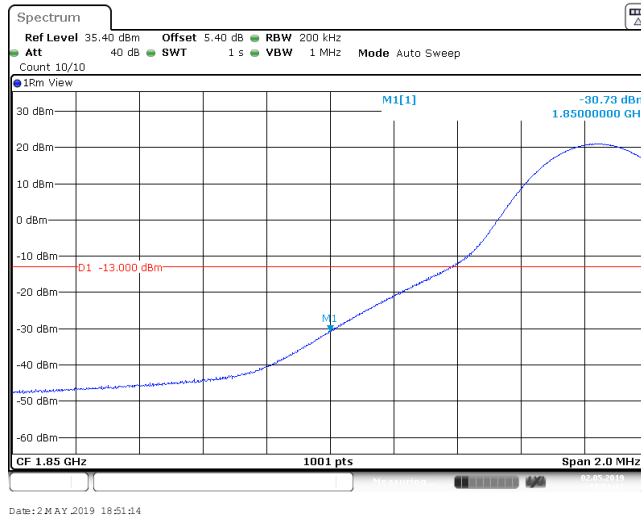
**Band2\_15MHz\_QPSK\_19125\_75RB#0**



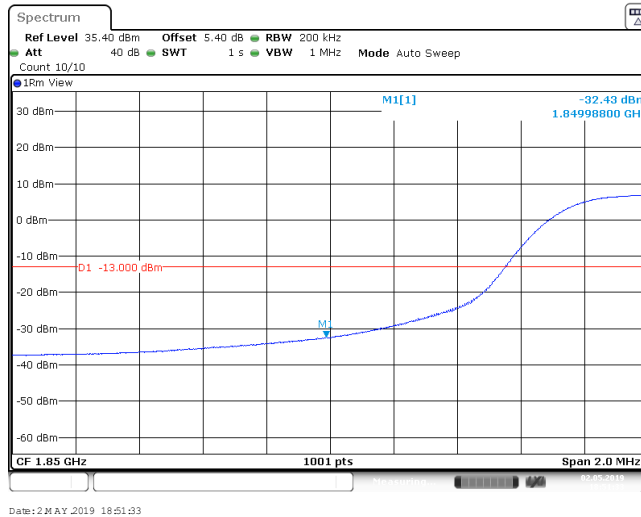
**Band2\_15MHz\_16QAM\_18675\_1RB#0**



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**Band2\_15MHz\_16QAM\_18675\_27RB#0**

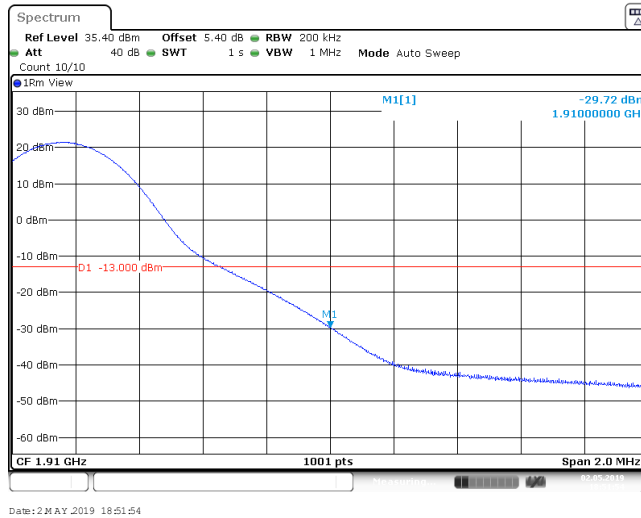


**Band2\_15MHz\_16QAM\_19125\_1RB#74**

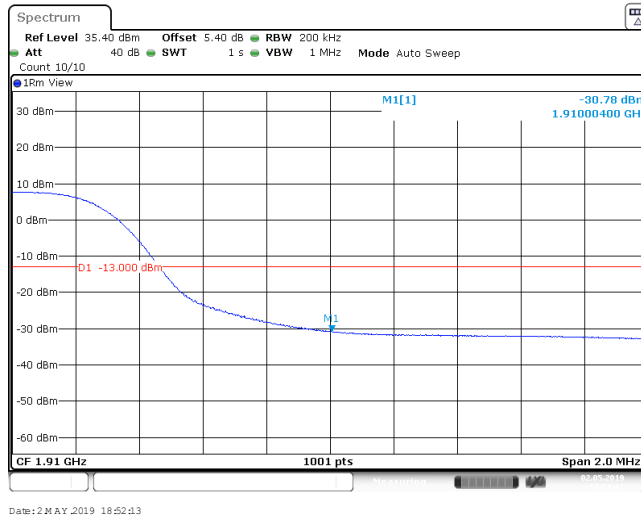


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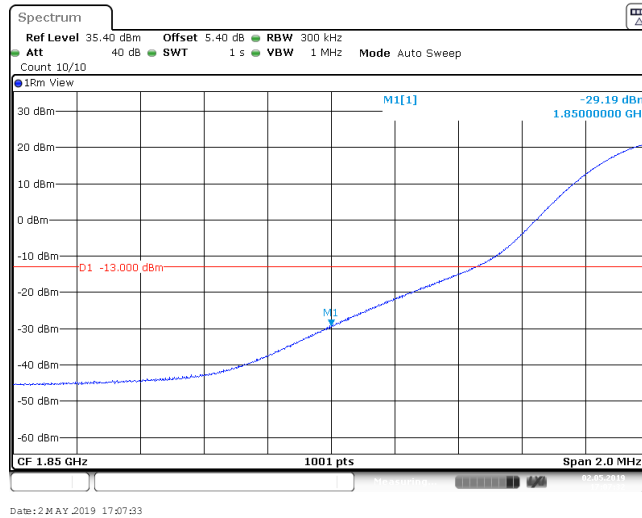
**Band2\_15MHz\_16QAM\_19125\_27RB#48**



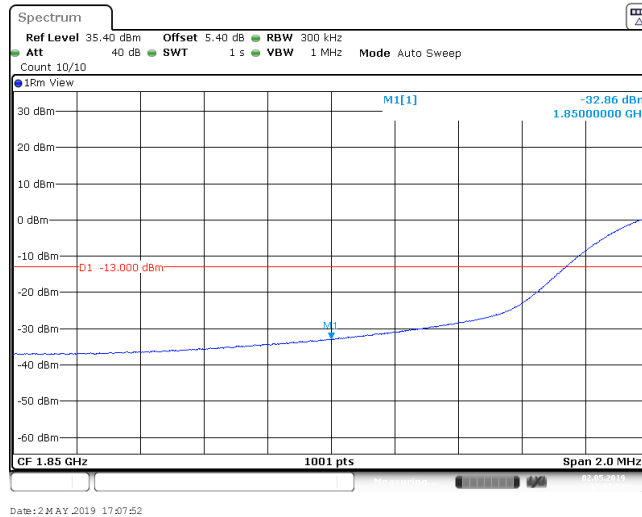
**Band2\_20MHz\_QPSK\_18700\_1RB#0**



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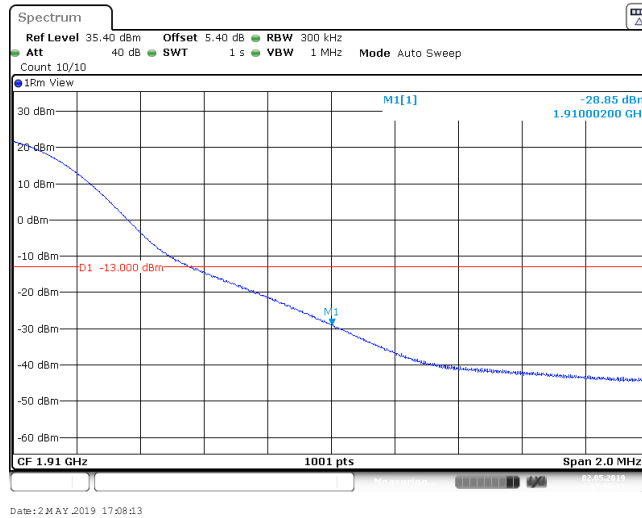
**Band2\_20MHz\_QPSK\_18700\_100RB#0**



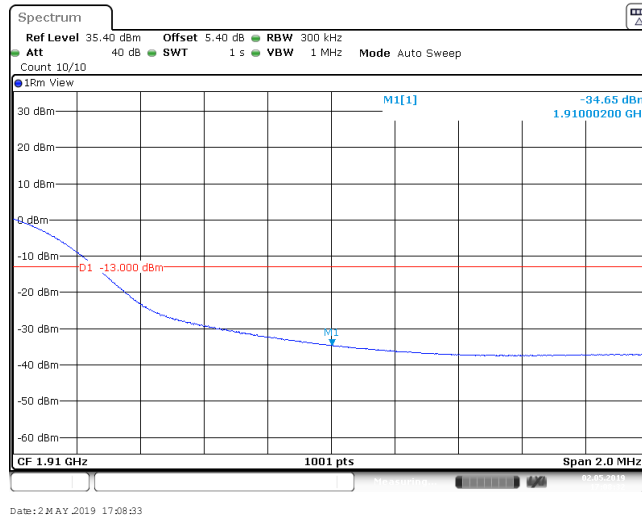
**Band2\_20MHz\_QPSK\_19100\_1RB#99**



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**Band2\_20MHz\_QPSK\_19100\_100RB#0**

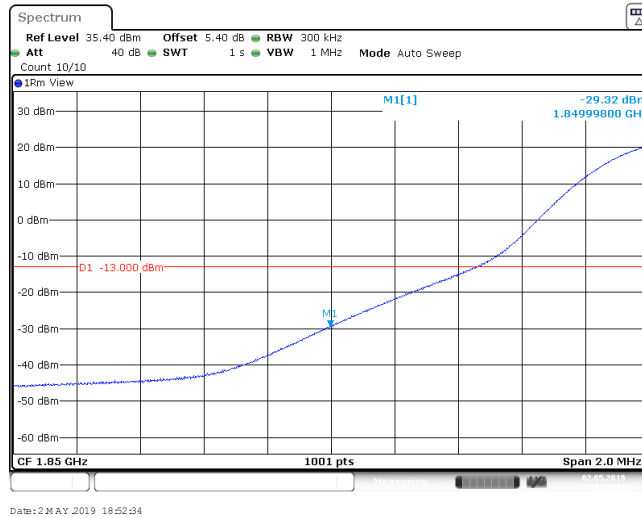


**Band2\_20MHz\_16QAM\_18700\_1RB#0**

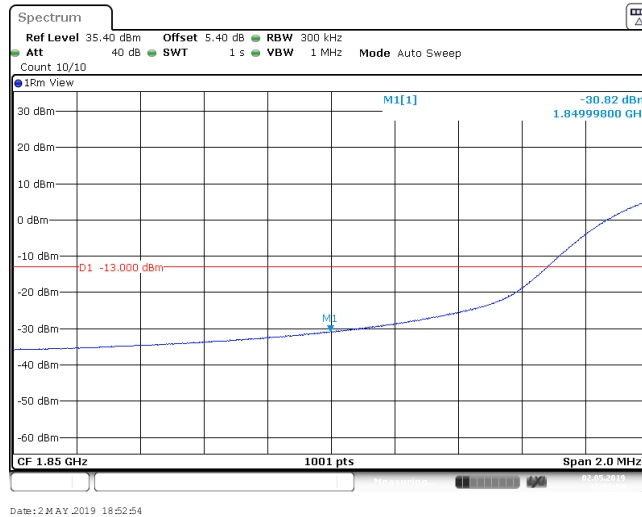


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**Band2\_20MHz\_16QAM\_18700\_27RB#0**

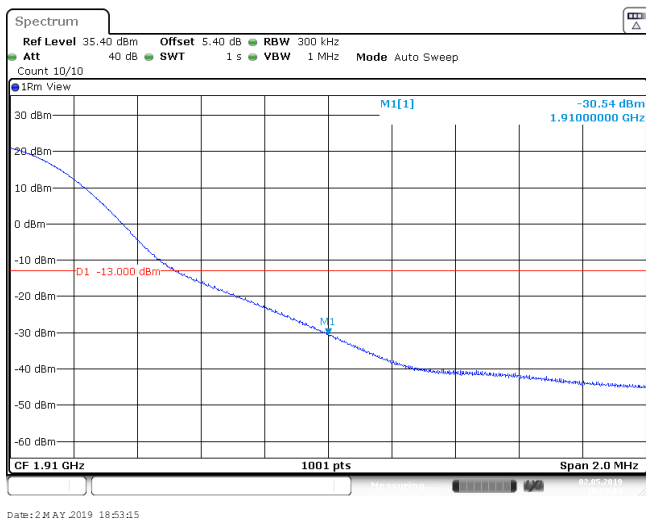


**Band2\_20MHz\_16QAM\_19100\_1RB#99**

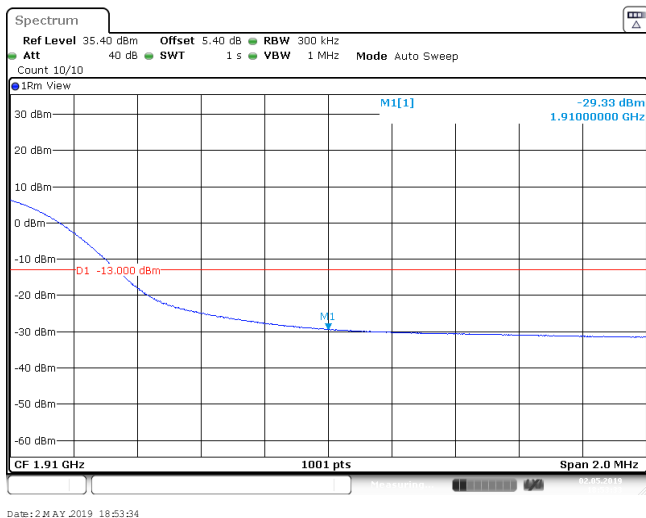


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**Band2\_20MHz\_16QAM\_19100\_27RB#73**



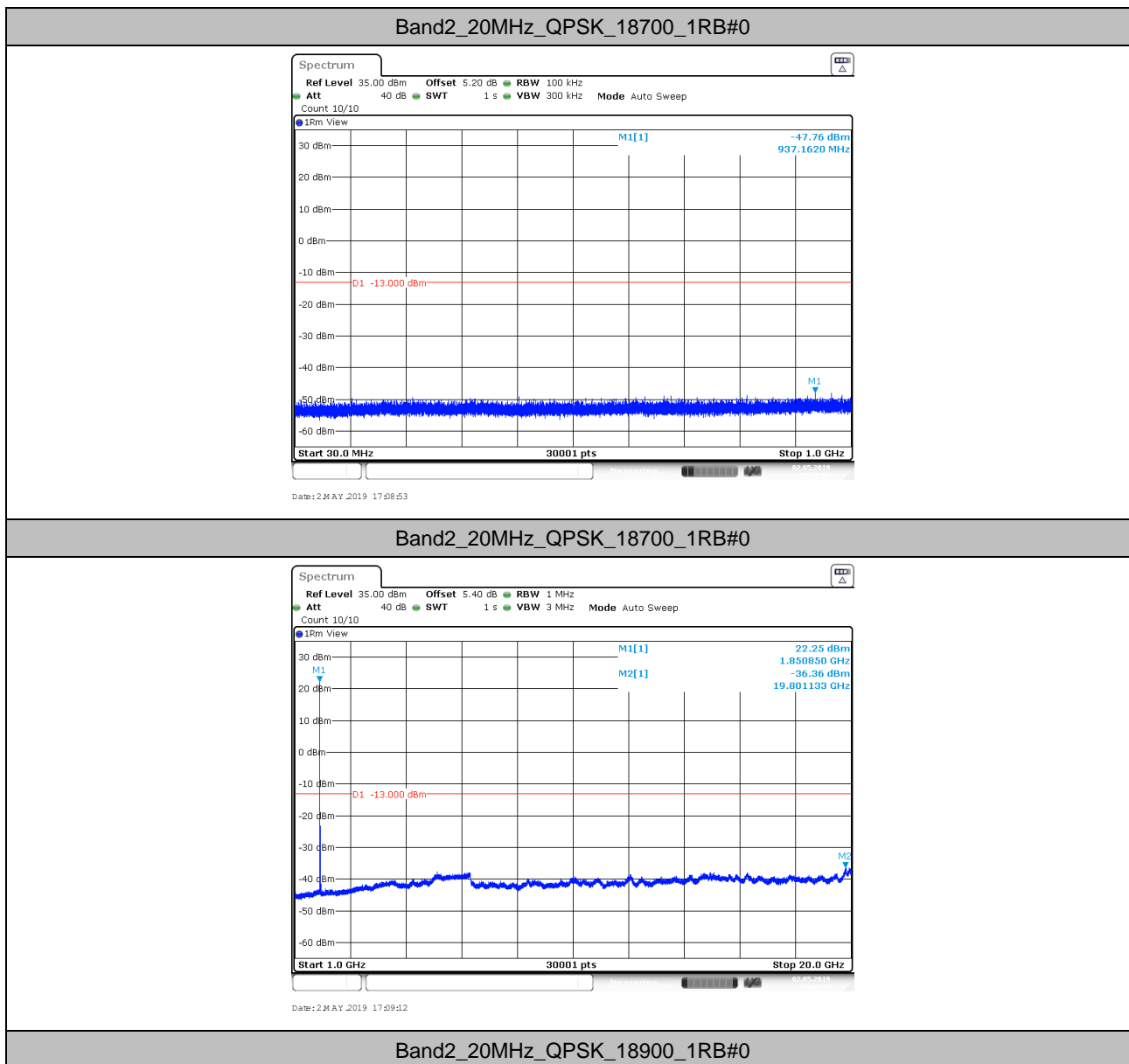
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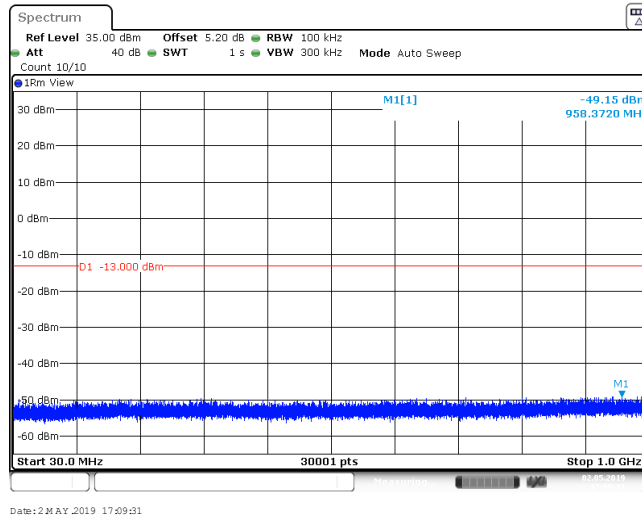
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

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

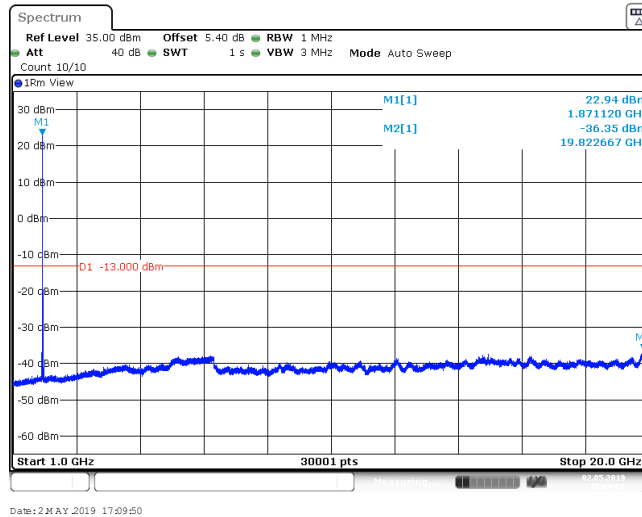
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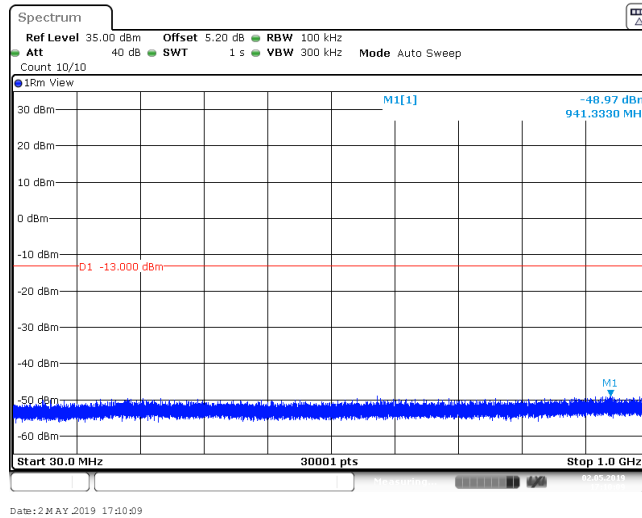
Band2\_20MHz\_QPSK\_18900\_1RB#0



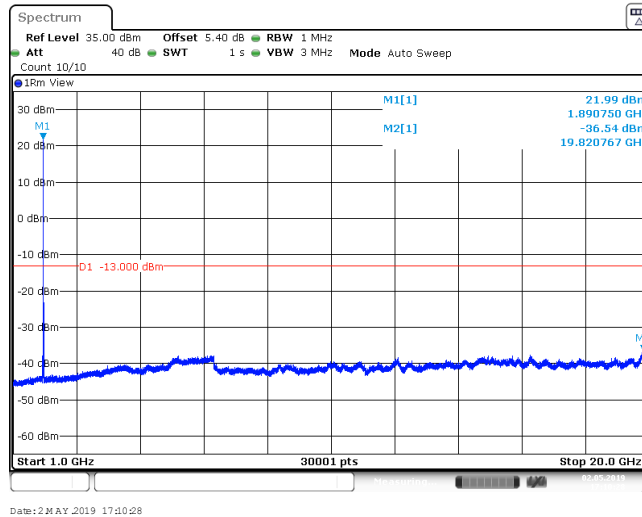
Band2\_20MHz\_QPSK\_19100\_1RB#0



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**Band2\_20MHz\_QPSK\_19100\_1RB#0**



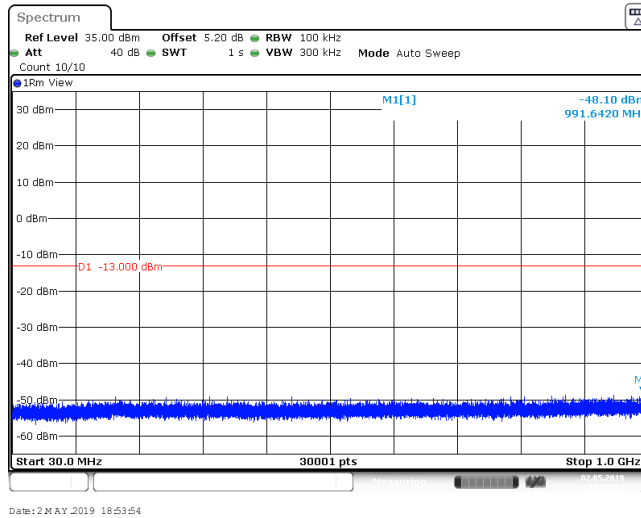
**Band2\_20MHz\_16QAM\_18700\_1RB#0**



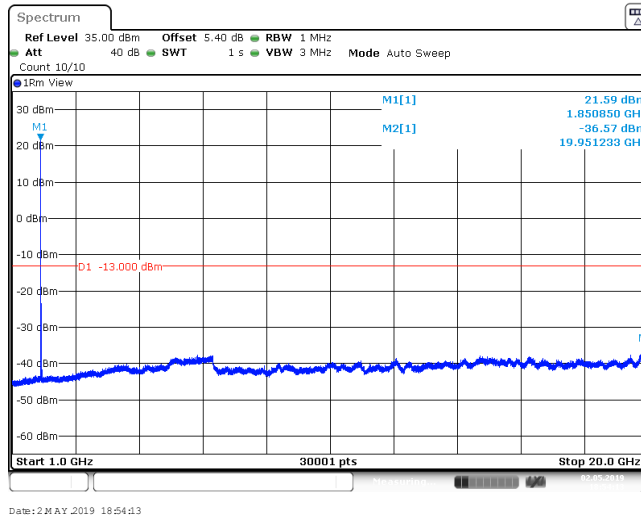
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Band2\_20MHz\_16QAM\_18700\_1RB#0

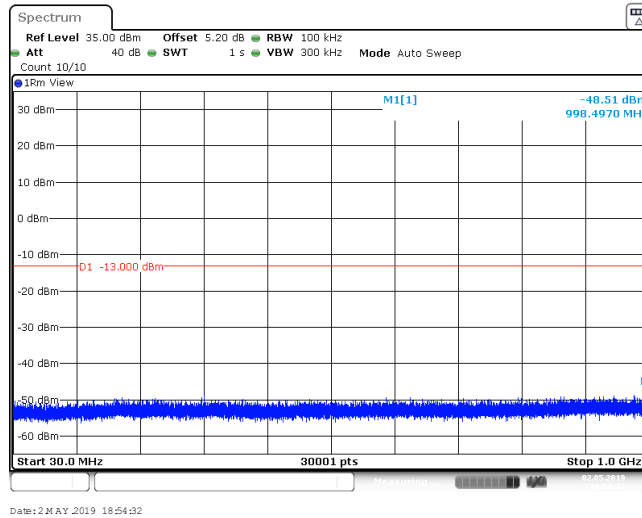


Band2\_20MHz\_16QAM\_18900\_1RB#0

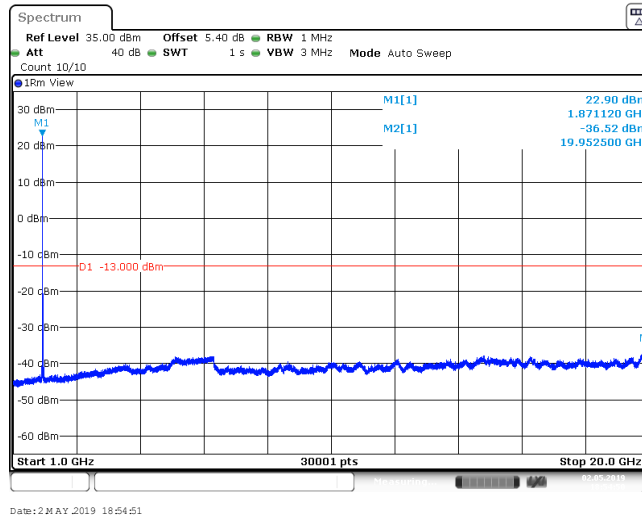


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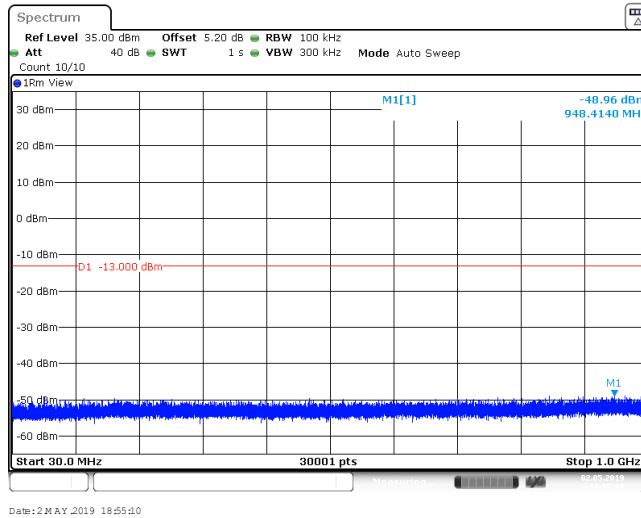


**Band2\_20MHz\_16QAM\_19100\_1RB#0**

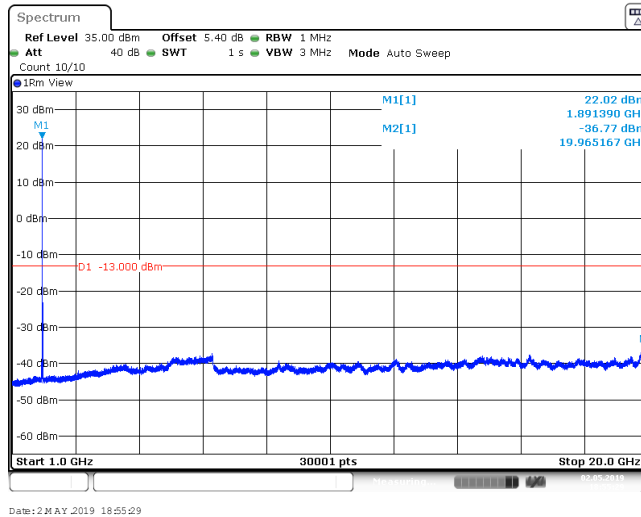


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**Band2\_20MHz\_16QAM\_19100\_1RB#0**



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## 7. Field Strength of Spurious Radiation

### 7.1. Test BAND = LTE Band 2

#### 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
78.2639	-66.76	-13	53.76	Vertical
110.9619	-64.26	-13	51.26	Vertical
747.7938	-61.76	-13	48.76	Vertical
3812.4586	-49.29	-13	36.29	Vertical
5743.1207	-43.27	-13	30.27	Vertical
16988.3118	-29.60	-13	16.60	Vertical
43.3930	-63.40	-13	50.40	Horizontal
164.6399	-62.77	-13	49.77	Horizontal
480.7043	-66.08	-13	53.08	Horizontal
2692.4092	-36.85	-13	23.85	Horizontal
5717.9447	-47.82	-13	34.82	Horizontal
16995.0073	-35.85	-13	22.85	Horizontal

##### 7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
88.7278	-64.88	-13	51.88	Vertical
128.3444	-65.20	-13	52.20	Vertical
713.2501	-62.89	-13	49.89	Vertical
3802.2186	-47.85	-13	34.85	Vertical
5710.3939	-43.94	-13	30.94	Vertical
17901.5245	-29.69	-13	16.69	Vertical
54.7702	-64.98	-13	51.98	Horizontal
141.2015	-63.78	-13	50.78	Horizontal
496.6725	-66.83	-13	53.83	Horizontal
2693.6448	-36.66	-13	23.66	Horizontal
5749.4532	-47.67	-13	34.67	Horizontal
17992.4012	-34.78	-13	21.78	Horizontal



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**7.1.1.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.8926	-66.01	-13	53.01	Vertical
104.5252	-65.41	-13	52.41	Vertical
736.8993	-61.39	-13	48.39	Vertical
3817.9029	-48.45	-13	35.45	Vertical
5738.7079	-44.68	-13	31.68	Vertical
17816.4862	-30.13	-13	17.13	Vertical
48.2049	-64.00	-13	51.00	Horizontal
163.4216	-62.51	-13	49.51	Horizontal
499.0436	-66.86	-13	53.86	Horizontal
2708.4796	-37.34	-13	24.34	Horizontal
5743.7221	-47.98	-13	34.98	Horizontal
17995.9454	-36.25	-13	23.25	Horizontal

**Remark:**

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 had been displayed.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

Voltage										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	VL	NT	8.12	0.004364	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VN	NT	-9.80	-0.005268	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	VH	NT	-7.21	-0.003874	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-7.52	-0.004001	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	6.06	0.003223	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-2.46	-0.001307	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VL	NT	5.43	0.002857	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VN	NT	2.14	0.001124	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	VH	NT	2.60	0.001371	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	VL	NT	-7.57	-0.004070	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	VN	NT	-10.96	-0.005891	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	VH	NT	-9.55	-0.005135	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	VL	NT	-4.91	-0.002610	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	VN	NT	-5.59	-0.002974	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	VH	NT	5.48	0.002913	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	VL	NT	2.84	0.001493	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	VN	NT	12.81	0.006741	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	VH	NT	13.07	0.006881	±2.5	PASS

### 8.2. Frequency Vs Temperature

Temperature										
BAND	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	NV	-30	-1.22	-0.000655	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	-20	11.61	0.006244	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	0	8.84	0.004753	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	10	6.81	0.003662	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	20	14.79	0.007950	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	30	14.35	0.007713	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	40	10.94	0.005879	±2.5	PASS
Band2	20MHz	QPSK	18700	100RB#0	NV	50	7.78	0.004182	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-14.29	-0.007604	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	9.67	0.005146	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-12.45	-0.006621	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	8.74	0.004649	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-6.82	-0.003628	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	13.35	0.007103	±2.5	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-10.09	-0.005368	±2.5	PASS



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Band2	20MHz	QPSK	18900	100RB#0	NV	50	-1.25	-0.000663	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-30	-7.02	-0.003693	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	-20	2.09	0.001099	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	0	-10.40	-0.005472	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	10	-4.23	-0.002224	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	20	-11.31	-0.005950	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	30	-0.62	-0.000326	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	40	5.59	0.002942	±2.5	PASS
Band2	20MHz	QPSK	19100	100RB#0	NV	50	-10.73	-0.005648	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	-30	6.06	0.003259	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	-20	-9.87	-0.005308	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	0	-3.08	-0.001655	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	10	11.40	0.006127	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	20	8.31	0.004466	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	30	-7.83	-0.004212	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	40	-8.36	-0.004494	±2.5	PASS
Band2	20MHz	16QAM	18700	27RB#0	NV	50	-5.63	-0.003027	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	-30	5.57	0.002964	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	-20	9.91	0.005273	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	0	-1.59	-0.000848	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	10	-2.02	-0.001073	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	20	14.72	0.007831	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	30	14.15	0.007529	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	40	-5.57	-0.002964	±2.5	PASS
Band2	20MHz	16QAM	18900	27RB#0	NV	50	-4.63	-0.002465	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	-30	8.64	0.004550	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	-20	-3.92	-0.002064	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	0	-11.21	-0.005902	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	10	-8.92	-0.004697	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	20	-6.14	-0.003231	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	30	-7.40	-0.003895	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	40	-13.71	-0.007218	±2.5	PASS
Band2	20MHz	16QAM	19100	27RB#0	NV	50	-11.13	-0.005860	±2.5	PASS

The End



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