



Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 1 of 72

Appendix B.3

LTE Band 2



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant 13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	21.35	21.15	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	21.49	21.29	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	21.37	21.17	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.43	21.23	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	21.30	21.10	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	21.38	21.18	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	21.27	21.07	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.43	21.23	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	21.49	21.29	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	21.55	21.35	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	21.33	21.13	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.38	21.18	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.44	21.24	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.60	21.40	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.97	21.77	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.01	20.81	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.89	21.69	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.61	21.41	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.47	21.27	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.85	20.65	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.81	21.61	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.77	21.57	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.06	21.86	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.89	20.69	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#0	20.85	20.65	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#2	20.86	20.66	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#5	20.79	20.59	33	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	20.20	20.00	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#0	20.80	20.60	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#2	20.67	20.47	33	PASS





Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 3 of 72

Band2	1.4MHz	64QAM	18900	1RB#5	20.59	20.39	33	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	19.99	19.79	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#0	20.92	20.72	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#2	21.04	20.84	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#5	20.91	20.71	33	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	19.18	18.98	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	21.14	20.94	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	21.13	20.93	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	20.71	20.51	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.16	20.96	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	21.20	21.00	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	21.20	21.00	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	20.93	20.73	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.18	20.98	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	21.21	21.01	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	21.36	21.16	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	21.04	20.84	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.36	21.16	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.53	21.33	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.53	21.33	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.08	20.88	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.63	20.43	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.7	21.50	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.62	21.42	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.43	21.23	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.70	20.50	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.68	21.48	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.77	21.57	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.38	21.18	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.81	20.61	33	PASS
Band2	3MHz	64QAM	18615	1RB#0	21.44	21.24	33	PASS
Band2	3MHz	64QAM	18615	1RB#8	21.36	21.16	33	PASS
Band2	3MHz	64QAM	18615	1RB#14	21.29	21.09	33	PASS
Band2	3MHz	64QAM	18615	15RB#0	20.79	20.59	33	PASS
Band2	3MHz	64QAM	18900	1RB#0	21.52	21.32	33	PASS
Band2	3MHz	64QAM	18900	1RB#8	21.40	21.20	33	PASS
Band2	3MHz	64QAM	18900	1RB#14	21.23	21.03	33	PASS
Band2	3MHz	64QAM	18900	15RB#0	20.81	20.61	33	PASS



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 4 of 72

Band2	3MHz	64QAM	19185	1RB#0	21.40	21.20	33	PASS
Band2	3MHz	64QAM	19185	1RB#8	21.58	21.38	33	PASS
Band2	3MHz	64QAM	19185	1RB#14	21.14	20.94	33	PASS
Band2	3MHz	64QAM	19185	15RB#0	20.89	20.69	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	21.17	20.97	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	21.15	20.95	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	20.74	20.54	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.10	20.90	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	21.22	21.02	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	21.22	21.02	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	20.89	20.69	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.19	20.99	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	21.17	20.97	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	21.32	21.12	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	21.00	20.80	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.35	21.15	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.61	21.41	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.51	21.31	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.14	20.94	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.7	20.50	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.67	21.47	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.65	21.45	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.39	21.19	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.73	20.53	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.66	21.46	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.81	21.61	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.35	21.15	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.81	20.61	33	PASS
Band2	5MHz	64QAM	18625	1RB#0	21.62	21.42	33	PASS
Band2	5MHz	64QAM	18625	1RB#12	21.37	21.17	33	PASS
Band2	5MHz	64QAM	18625	1RB#24	21.31	21.11	33	PASS
Band2	5MHz	64QAM	18625	25RB#0	20.87	20.67	33	PASS
Band2	5MHz	64QAM	18900	1RB#0	21.49	21.29	33	PASS
Band2	5MHz	64QAM	18900	1RB#12	21.39	21.19	33	PASS
Band2	5MHz	64QAM	18900	1RB#24	21.11	20.91	33	PASS
Band2	5MHz	64QAM	18900	25RB#0	20.72	20.52	33	PASS
Band2	5MHz	64QAM	19175	1RB#0	21.59	21.39	33	PASS
Band2	5MHz	64QAM	19175	1RB#12	21.48	21.28	33	PASS



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 5 of 72

Band2	5MHz	64QAM	19175	1RB#24	21.18	20.98	33	PASS
Band2	5MHz	64QAM	19175	25RB#0	20.96	20.76	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	21.21	21.01	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	21.17	20.97	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	20.70	20.50	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.11	20.91	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	21.17	20.97	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	21.16	20.96	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	20.89	20.69	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.20	21.00	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	21.21	21.01	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	21.34	21.14	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	20.99	20.79	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.38	21.18	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.57	21.37	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.49	21.29	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.10	20.90	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.61	20.41	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.68	21.48	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.66	21.46	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.42	21.22	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.71	20.51	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.6	21.40	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.78	21.58	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.41	21.21	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.87	20.67	33	PASS
Band2	10MHz	64QAM	18650	1RB#0	21.48	21.28	33	PASS
Band2	10MHz	64QAM	18650	1RB#24	21.35	21.15	33	PASS
Band2	10MHz	64QAM	18650	1RB#49	21.34	21.14	33	PASS
Band2	10MHz	64QAM	18650	50RB#0	20.81	20.61	33	PASS
Band2	10MHz	64QAM	18900	1RB#0	21.44	21.24	33	PASS
Band2	10MHz	64QAM	18900	1RB#24	21.37	21.17	33	PASS
Band2	10MHz	64QAM	18900	1RB#49	21.14	20.94	33	PASS
Band2	10MHz	64QAM	18900	50RB#0	20.86	20.66	33	PASS
Band2	10MHz	64QAM	19150	1RB#0	21.48	21.28	33	PASS
Band2	10MHz	64QAM	19150	1RB#24	21.55	21.35	33	PASS
Band2	10MHz	64QAM	19150	1RB#49	21.24	21.04	33	PASS
Band2	10MHz	64QAM	19150	50RB#0	20.90	20.70	33	PASS



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 6 of 72

Band2	15MHz	QPSK	18675	1RB#0	21.18	20.98	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	21.15	20.95	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	20.74	20.54	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.19	20.99	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	21.15	20.95	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	21.14	20.94	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	20.93	20.73	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.19	20.99	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	21.15	20.95	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	21.37	21.17	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	20.99	20.79	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.42	21.22	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.54	21.34	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.52	21.32	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.08	20.88	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.65	20.45	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.66	21.46	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.7	21.50	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.38	21.18	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.66	20.46	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.65	21.45	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.76	21.56	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.33	21.13	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.81	20.61	33	PASS
Band2	15MHz	64QAM	18675	1RB#0	21.54	21.34	33	PASS
Band2	15MHz	64QAM	18675	1RB#38	21.48	21.28	33	PASS
Band2	15MHz	64QAM	18675	1RB#74	21.41	21.21	33	PASS
Band2	15MHz	64QAM	18675	75RB#0	20.77	20.57	33	PASS
Band2	15MHz	64QAM	18900	1RB#0	21.48	21.28	33	PASS
Band2	15MHz	64QAM	18900	1RB#38	21.55	21.35	33	PASS
Band2	15MHz	64QAM	18900	1RB#74	21.20	21.00	33	PASS
Band2	15MHz	64QAM	18900	75RB#0	20.73	20.53	33	PASS
Band2	15MHz	64QAM	19125	1RB#0	21.44	21.24	33	PASS
Band2	15MHz	64QAM	19125	1RB#38	21.49	21.29	33	PASS
Band2	15MHz	64QAM	19125	1RB#74	21.13	20.93	33	PASS
Band2	15MHz	64QAM	19125	75RB#0	20.97	20.77	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	21.17	20.97	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	21.16	20.96	33	PASS



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 7 of 72

Band2	20MHz	QPSK	18700	1RB#99	20.71	20.51	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.15	20.95	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	21.20	21.00	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	21.17	20.97	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	20.94	20.74	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.21	21.01	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	21.20	21.00	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	21.34	21.14	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	21.00	20.80	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.37	21.17	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.57	21.37	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.52	21.32	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.11	20.91	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.66	20.46	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.71	21.51	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.67	21.47	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.38	21.18	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.68	20.48	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.64	21.44	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.8	21.60	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.36	21.16	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.82	20.62	33	PASS
Band2	20MHz	64QAM	18700	1RB#0	21.52	21.32	33	PASS
Band2	20MHz	64QAM	18700	1RB#49	21.41	21.21	33	PASS
Band2	20MHz	64QAM	18700	1RB#99	21.31	21.11	33	PASS
Band2	20MHz	64QAM	18700	100RB#0	20.85	20.65	33	PASS
Band2	20MHz	64QAM	18900	1RB#0	21.49	21.29	33	PASS
Band2	20MHz	64QAM	18900	1RB#49	21.45	21.25	33	PASS
Band2	20MHz	64QAM	18900	1RB#99	21.21	21.01	33	PASS
Band2	20MHz	64QAM	18900	100RB#0	20.79	20.59	33	PASS
Band2	20MHz	64QAM	19100	1RB#0	21.49	21.29	33	PASS
Band2	20MHz	64QAM	19100	1RB#49	21.52	21.32	33	PASS
Band2	20MHz	64QAM	19100	1RB#99	21.21	21.01	33	PASS
Band2	20MHz	64QAM	19100	100RB#0	20.89	20.69	33	PASS



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 8 of 72

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	5.30	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.33	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.39	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.20	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.23	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.26	13	PASS
Band2	20MHz	64QAM	18700	100RB#0	6.55	13	PASS
Band2	20MHz	64QAM	18900	100RB#0	6.55	13	PASS
Band2	20MHz	64QAM	19100	100RB#0	6.58	13	PASS



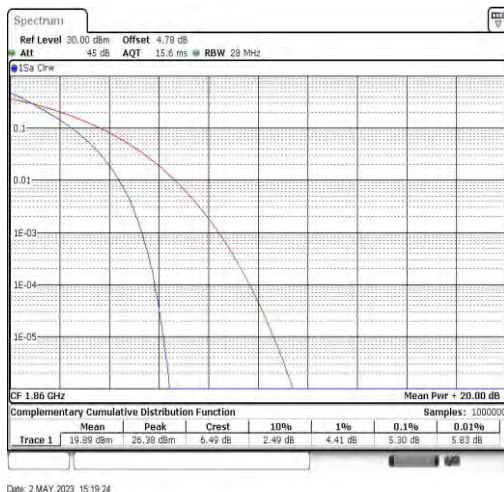
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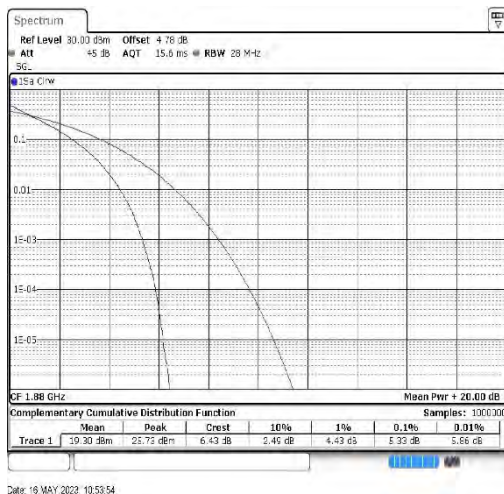
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Test Graphs



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



Band2-20MHz-QPSK-18900-100RB#0

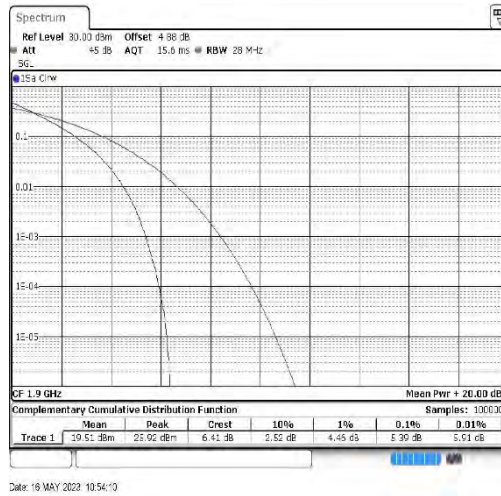




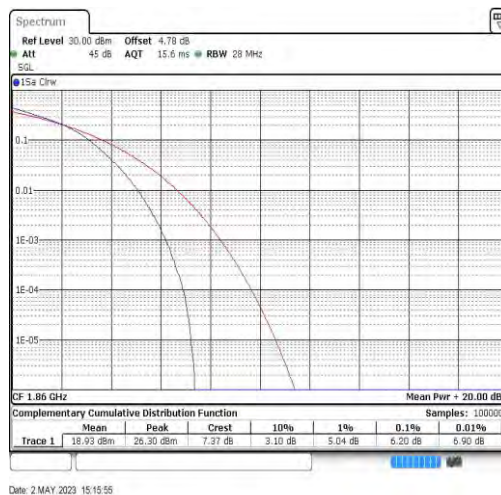
Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 10 of 72



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



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



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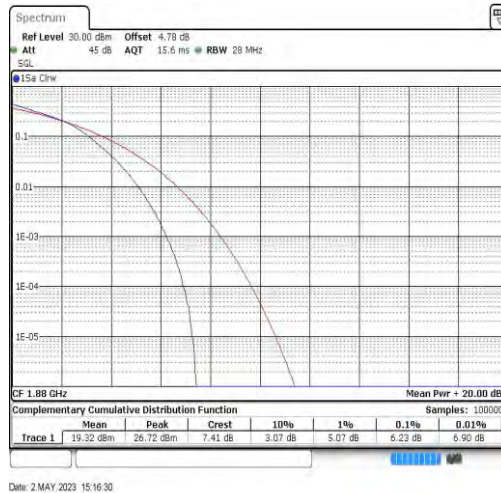
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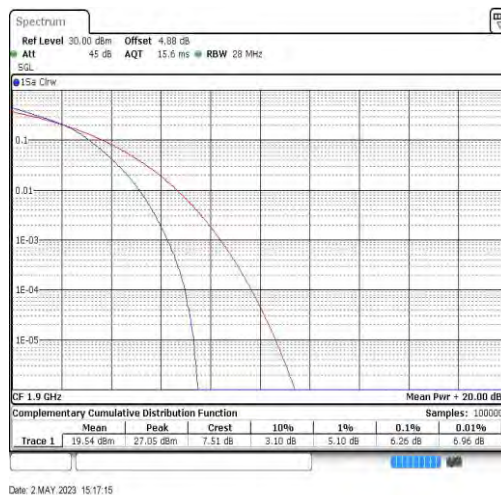
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Rev.: 01

Page: 11 of 72



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



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



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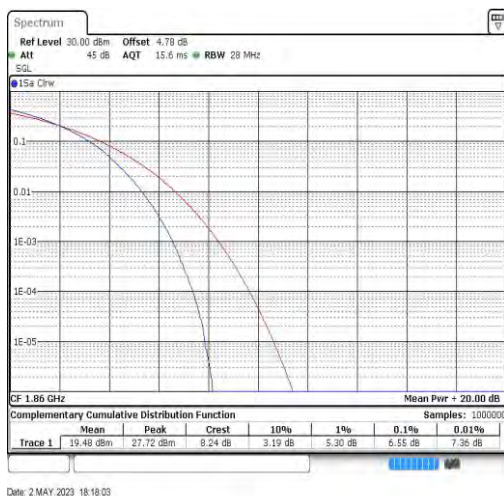
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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 12 of 72



Band2-20MHz-64QAM-18700-100RB#0



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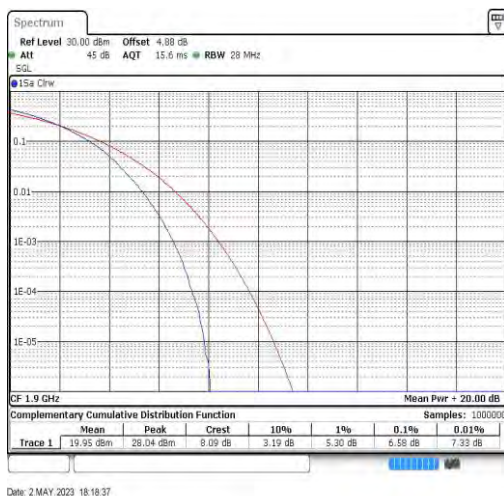




Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 13 of 72



Band2-20MHz-64QAM-19100-100RB#0



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 14 of 72

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band2	20MHz	64QAM	18900	100RB#0	PASS	PASS



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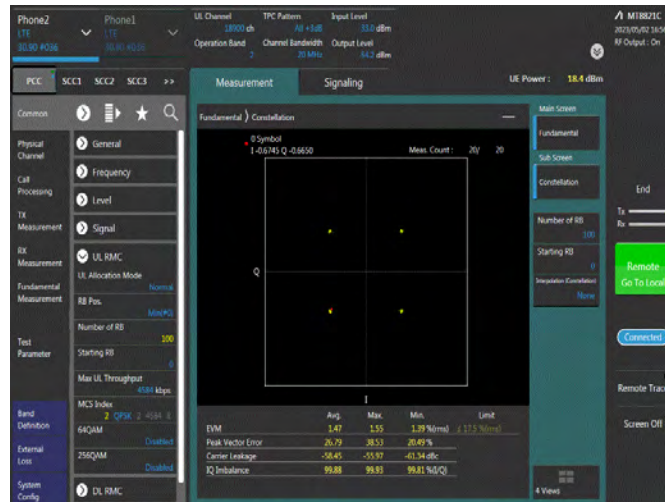
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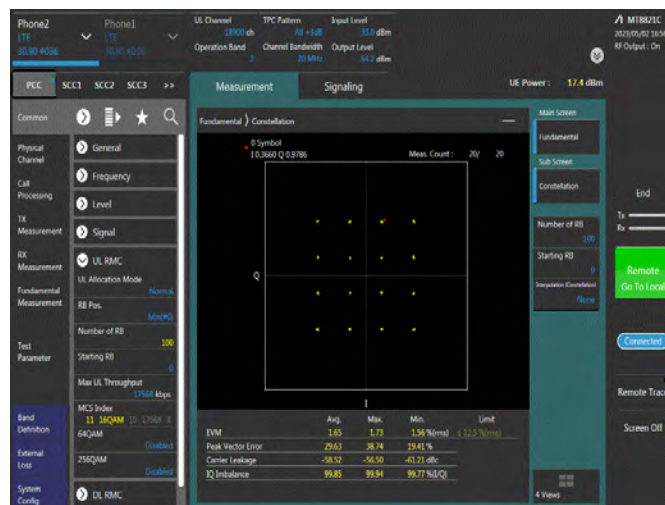
Rev.: 01

Page: 15 of 72

Test Graphs



Band2-20MHz-QPSK-18900-100RB#0



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



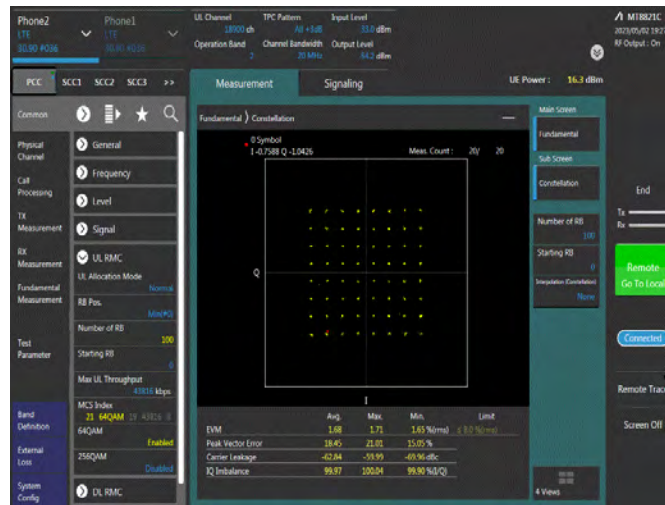
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Band2-20MHz-64QAM-18900-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.091	1.29	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.091	1.27	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.091	1.29	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.094	1.30	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.097	1.31	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.097	1.32	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	1.097	1.30	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	1.097	1.29	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	1.097	1.30	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.691	2.95	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.697	2.97	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.691	2.96	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.685	2.98	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.685	2.98	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.685	2.98	PASS
Band2	3MHz	64QAM	18615	15RB#0	2.691	2.98	PASS
Band2	3MHz	64QAM	18900	15RB#0	2.691	2.95	PASS
Band2	3MHz	64QAM	19185	15RB#0	2.691	2.96	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.476	4.83	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.476	4.90	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.476	4.90	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.476	4.92	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.466	4.96	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.466	4.96	PASS
Band2	5MHz	64QAM	18625	25RB#0	4.486	4.94	PASS
Band2	5MHz	64QAM	18900	25RB#0	4.486	4.93	PASS
Band2	5MHz	64QAM	19175	25RB#0	4.476	4.94	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.931	9.66	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.911	9.66	PASS





Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 18 of 72

Band2	10MHz	QPSK	19150	50RB#0	8.911	9.70	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.911	9.68	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.911	9.66	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.911	9.66	PASS
Band2	10MHz	64QAM	18650	50RB#0	8.931	9.72	PASS
Band2	10MHz	64QAM	18900	50RB#0	8.911	9.66	PASS
Band2	10MHz	64QAM	19150	50RB#0	8.931	9.68	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.457	14.82	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.487	14.76	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.487	14.70	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.457	14.79	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.457	14.73	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.457	14.85	PASS
Band2	15MHz	64QAM	18675	75RB#0	13.457	14.91	PASS
Band2	15MHz	64QAM	18900	75RB#0	13.427	14.88	PASS
Band2	15MHz	64QAM	19125	75RB#0	13.457	14.85	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.942	19.44	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.902	19.44	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.942	19.36	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.862	19.44	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.902	19.52	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.902	19.40	PASS
Band2	20MHz	64QAM	18700	100RB#0	17.942	19.48	PASS
Band2	20MHz	64QAM	18900	100RB#0	17.902	19.44	PASS
Band2	20MHz	64QAM	19100	100RB#0	17.942	19.44	PASS



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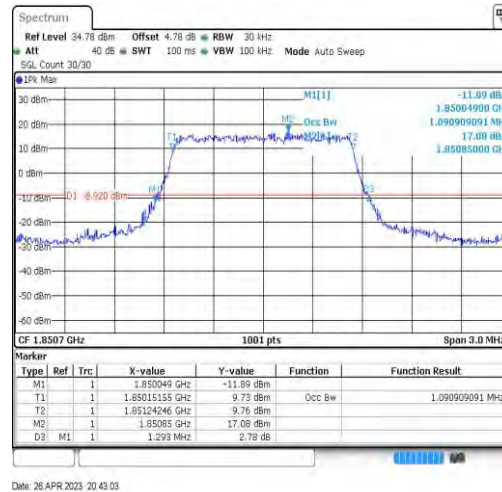
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Rev.: 01

Page: 19 of 72

Test Graphs



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

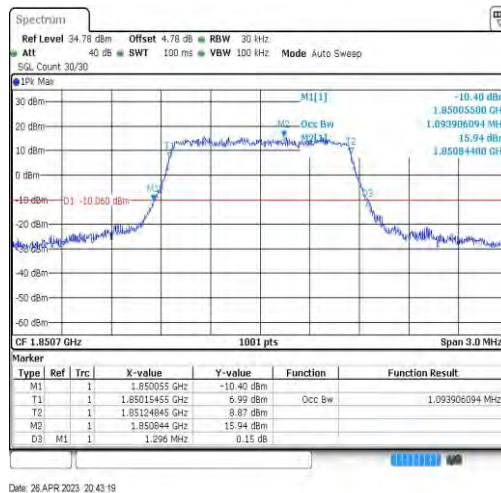


Band2-1.4MHz-QPSK-18900-6RB#0-1.091



Date: 26 APR 2023 20:44:07

Band2-1.4MHz-QPSK-19193-6RB#0-1.091



Date: 26 APR 2023 20:43:19

Band2-1.4MHz-16QAM-18607-6RB#0-1.094



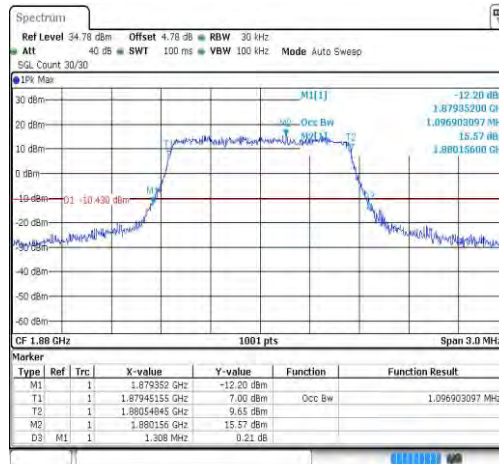
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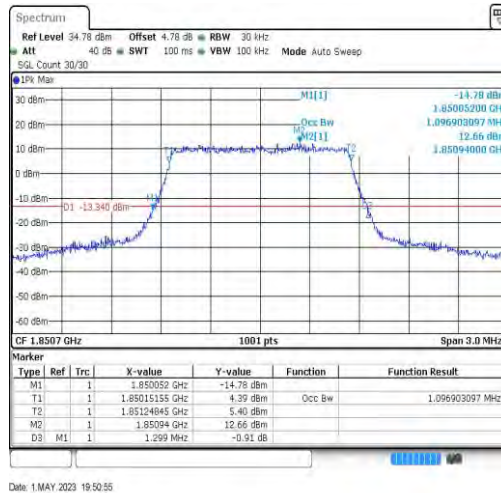


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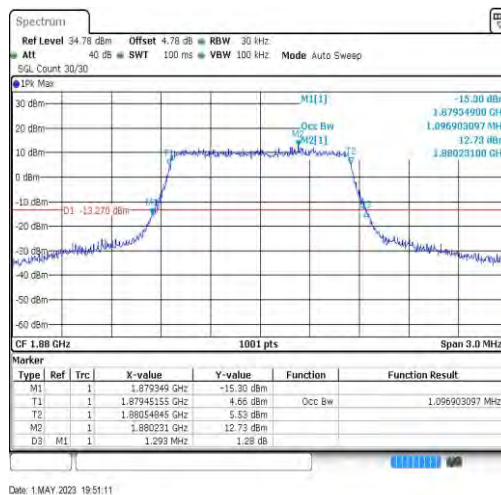


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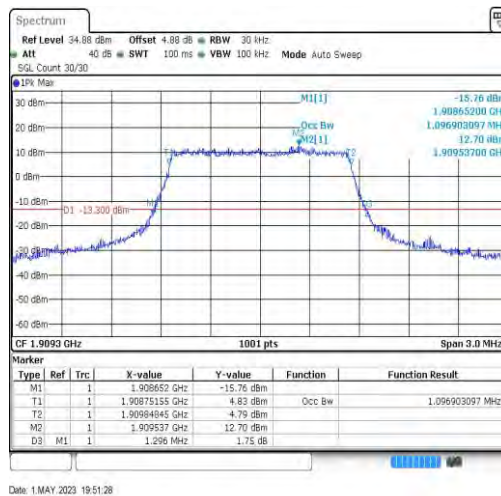


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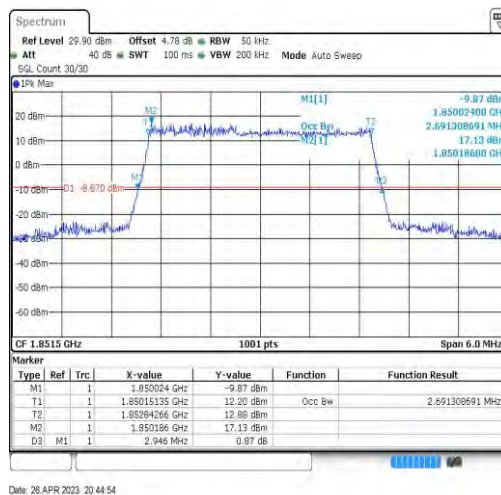


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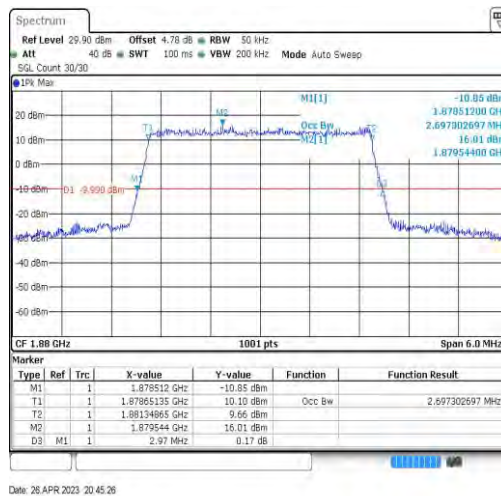


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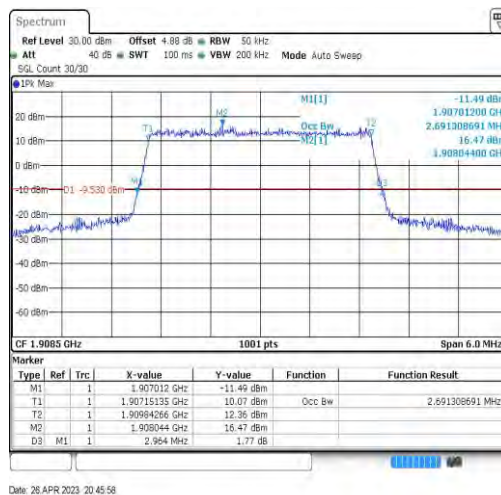


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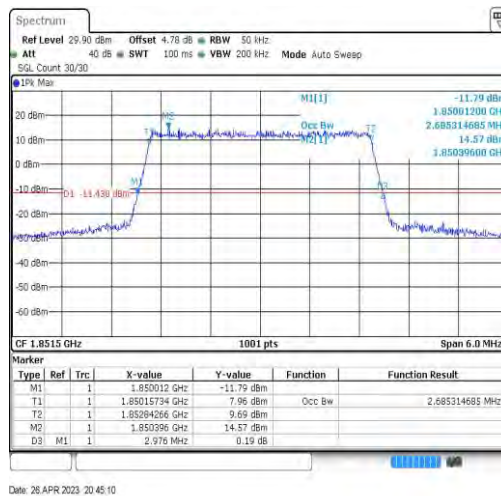


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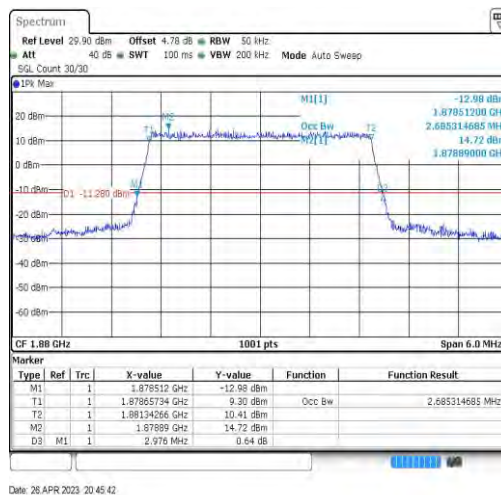


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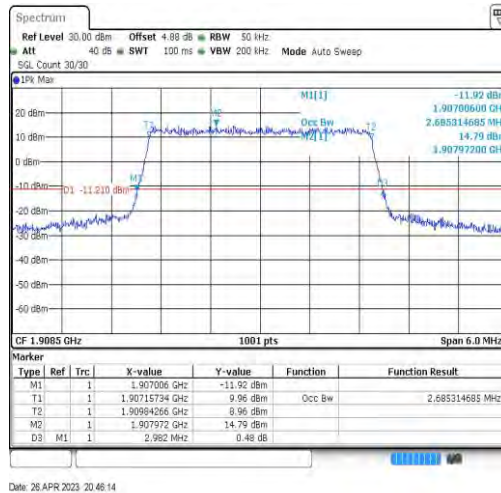


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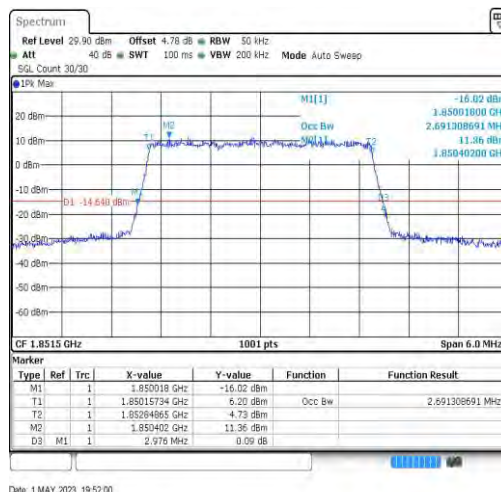
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Date: 26 APR 2023 20:46:14

Band2-3MHz-16QAM-19185-15RB#0-2.685



Date: 1 MAY 2023 19:52:00

Band2-3MHz-64QAM-18615-15RB#0-2.691



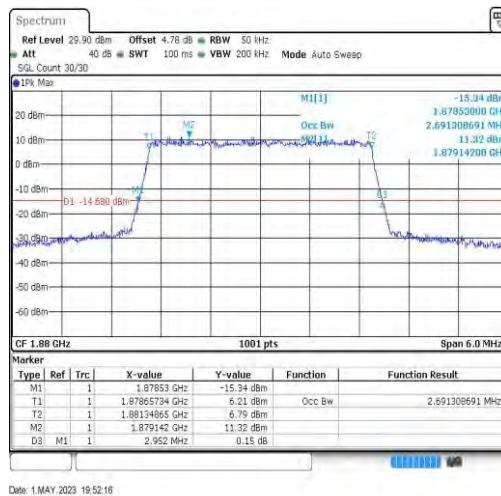
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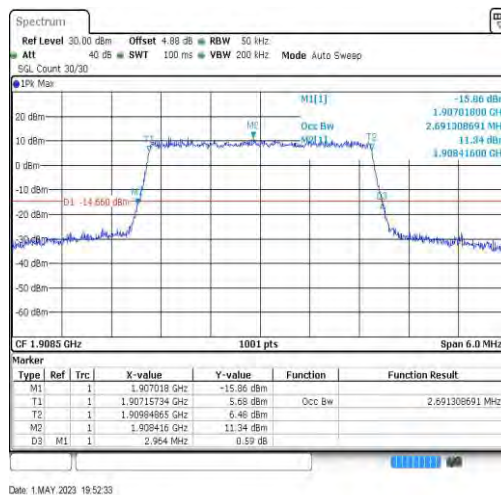
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Band2-3MHz-64QAM-18900-15RB#0-2.691



Band2-3MHz-64QAM-19185-15RB#0-2.691



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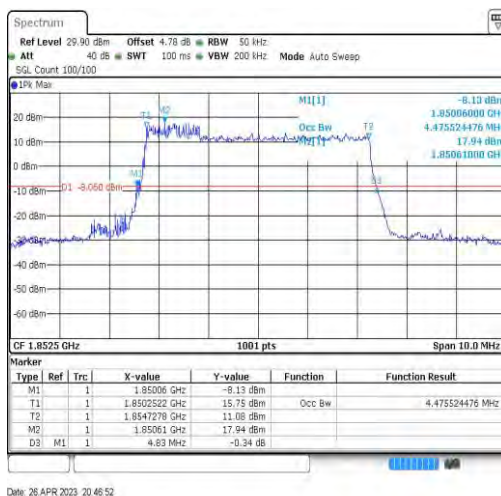
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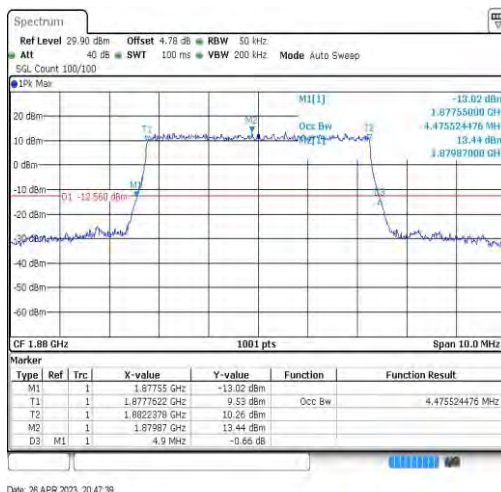
Rev.: 01

Page: 28 of 72



Date: 26 APR 2023 20:46:52

Band2-5MHz-QPSK-18625-25RB#0-4.476



Date: 26 APR 2023 20:47:38

Band2-5MHz-QPSK-18900-25RB#0-4.476



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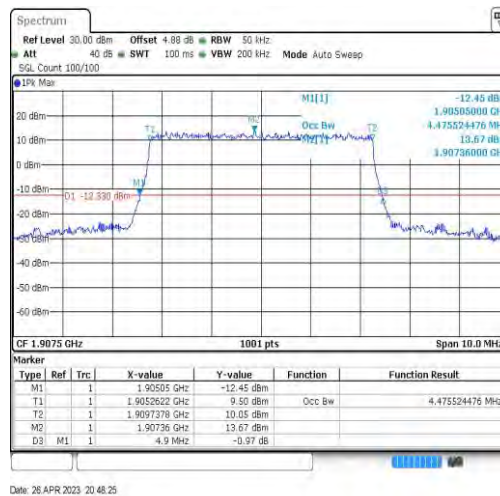
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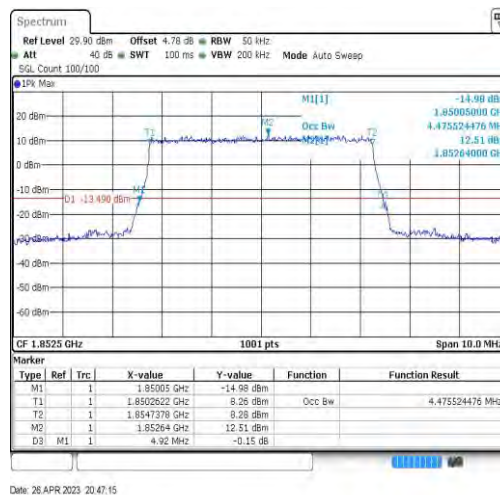
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Page: 29 of 72



Date: 26 APR 2023 20:48:25

Band2-5MHz-QPSK-19175-25RB#0-4.476



Date: 26 APR 2023 20:47:15

Band2-5MHz-16QAM-18625-25RB#0-4.476

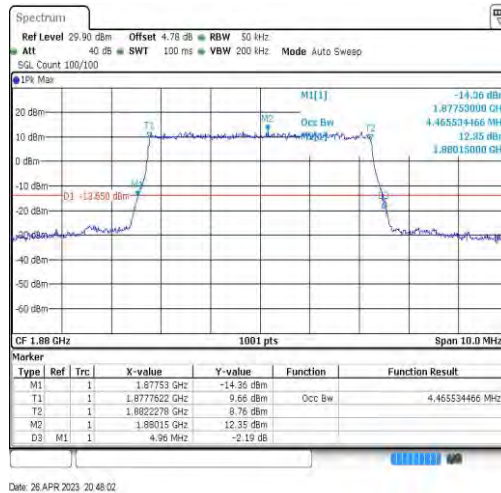


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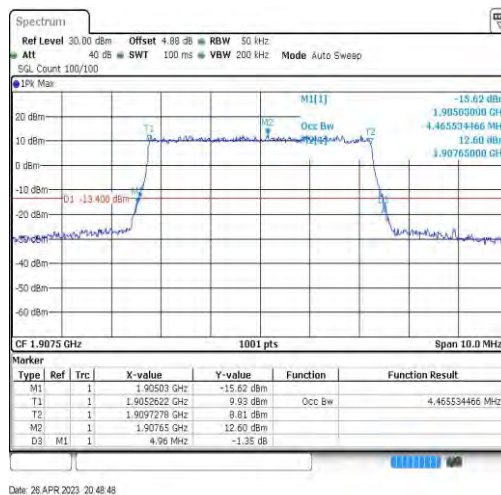
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Band2-5MHz-16QAM-18900-25RB#0-4.466



Band2-5MHz-16QAM-19175-25RB#0-4.466



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Band2-5MHz-64QAM-18625-25RB#0-4.486



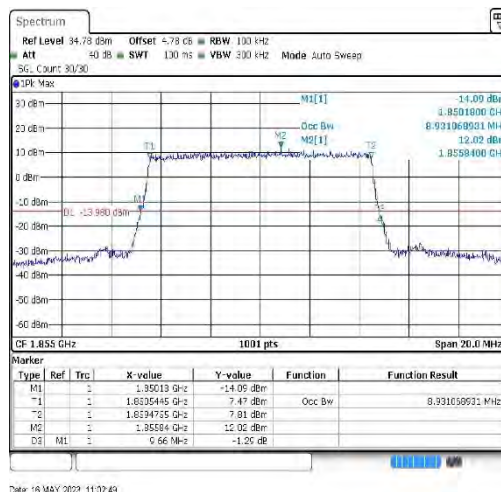
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Date: 1 MAY 2023 19:53:57

Band2-5MHz-64QAM-19175-25RB#0-4.476



Date: 16 MAY 2023 11:32:49

Band2-10MHz-QPSK-18650-50RB#0-8.951



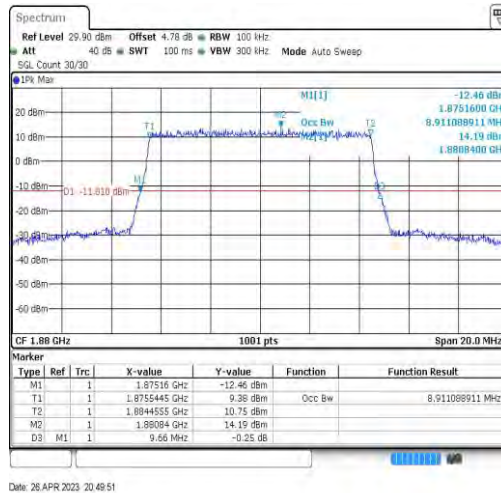
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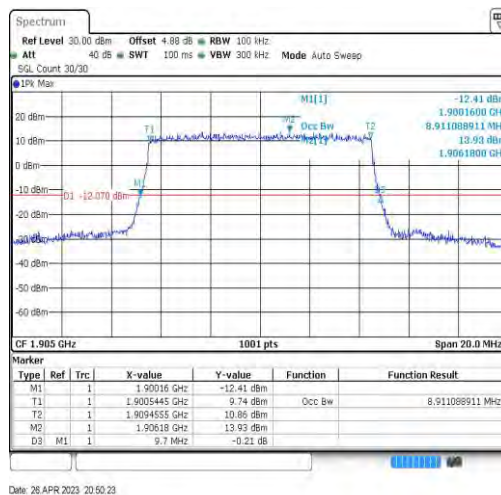
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Band2-10MHz-QPSK-18900-50RB#0-8.911



Band2-10MHz-QPSK-19150-50RB#0-8.911

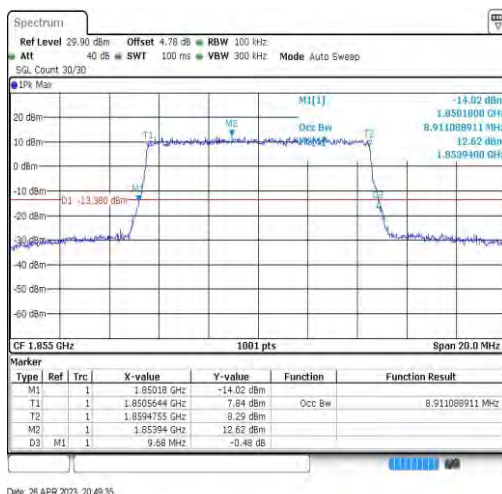


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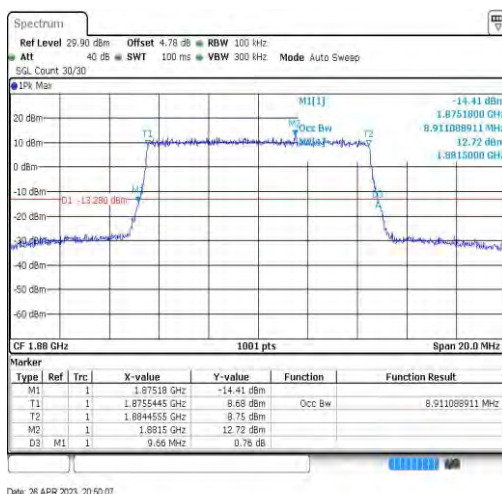
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Band2-10MHz-16QAM-18650-50RB#0-8.911



Band2-10MHz-16QAM-18900-50RB#0-8.911

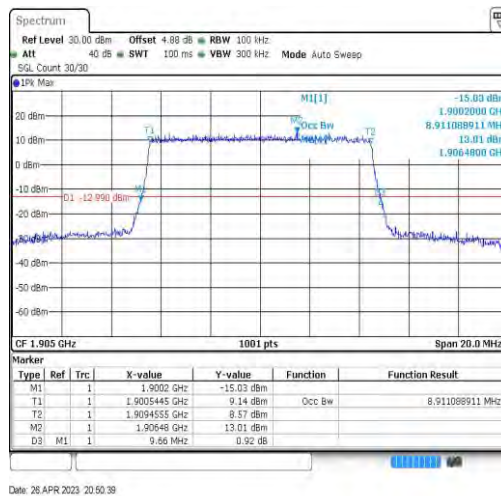


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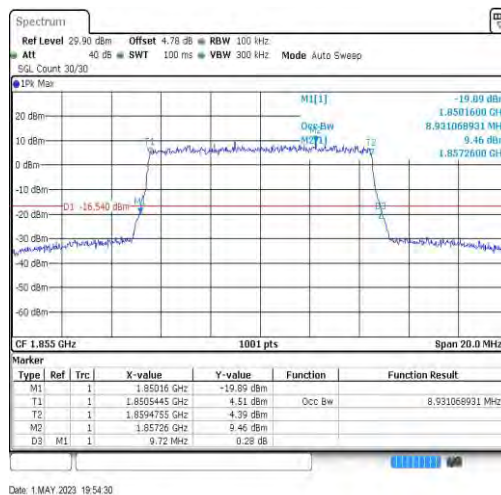
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Band2-10MHz-16QAM-19150-50RB#0-8.911



Date: 1 MAY 2023 19:54:30

Band2-10MHz-64QAM-18650-50RB#0-8.931



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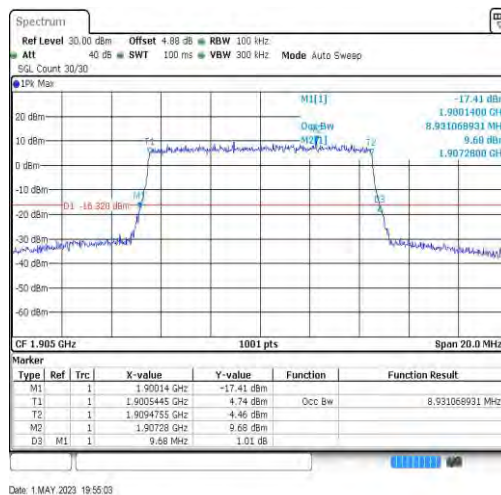
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Date: 1.MAY.2023 19:54:48

Band2-10MHz-64QAM-18900-50RB#0-8.911



Date: 1.MAY.2023 19:55:03

Band2-10MHz-64QAM-19150-50RB#0-8.931



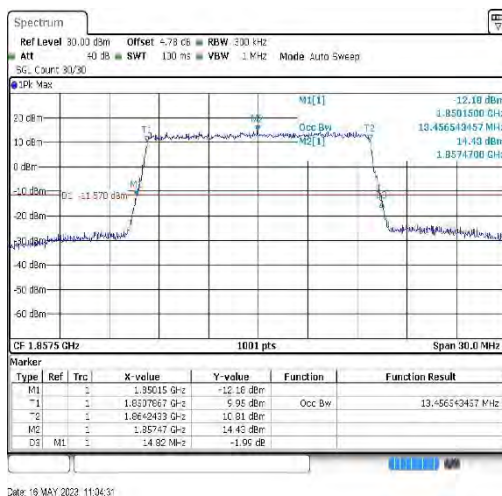
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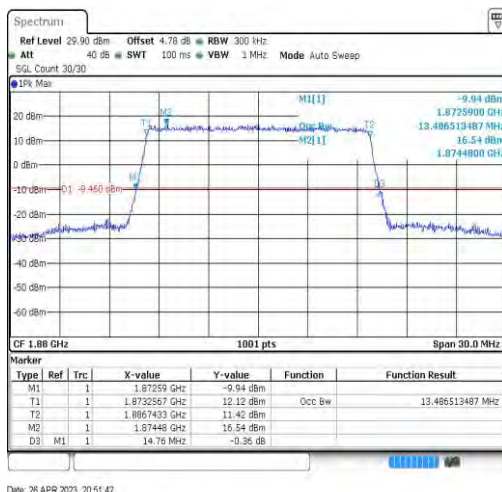
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Date: 16 MAY 2023 11:04:31

Band2-15MHz-QPSK-18675-75RB#0-13.576



Date: 26 APR 2023 20:51:42

Band2-15MHz-QPSK-18900-75RB#0-13.487

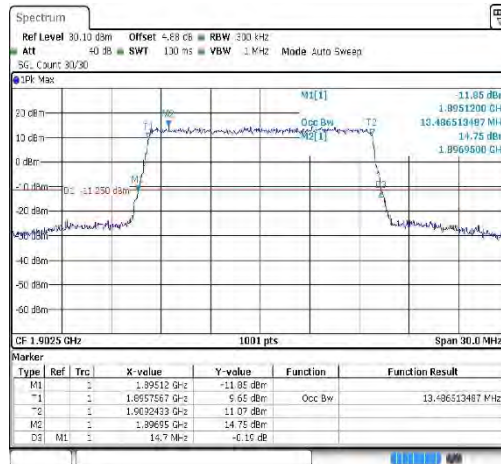




Report No.: ZEWM2303000343RG02

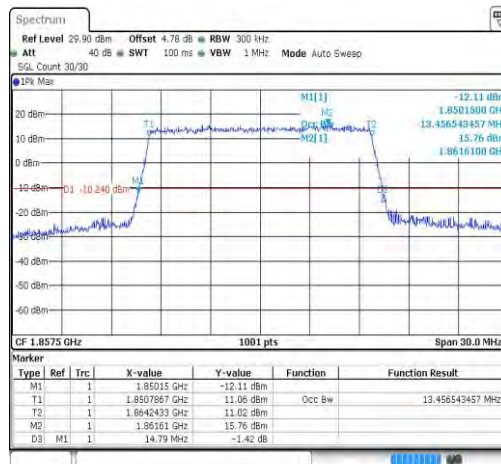
Rev.: 01

Page: 38 of 72



Date: 16 MAY 2023 11:34:47

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Date: 26 APR 2023 20:51:24

Band2-15MHz-16QAM-18675-75RB#0-13.457



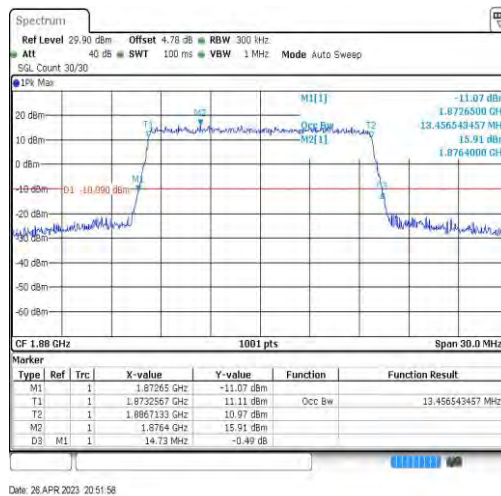
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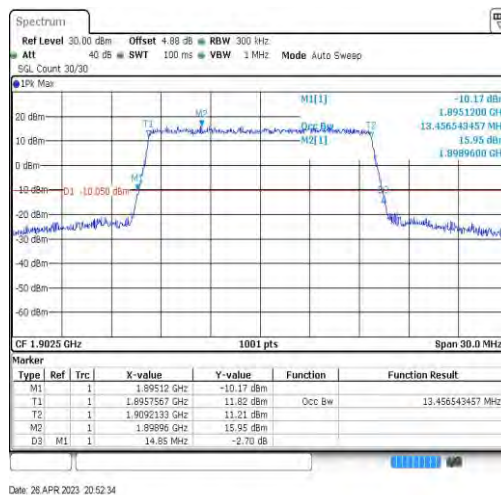
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Band2-15MHz-16QAM-18900-75RB#0-13.457



Date: 26 APR 2023 20:52:34

Band2-15MHz-16QAM-19125-75RB#0-13.457



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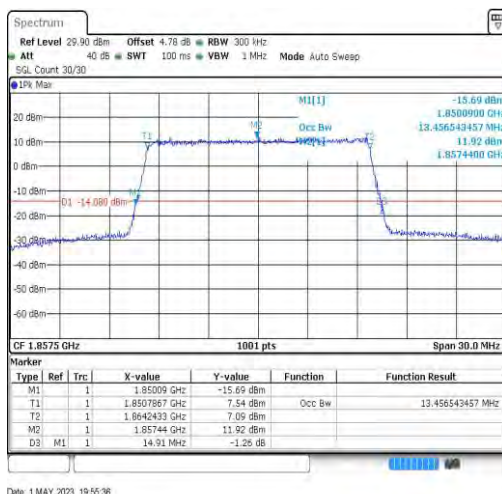
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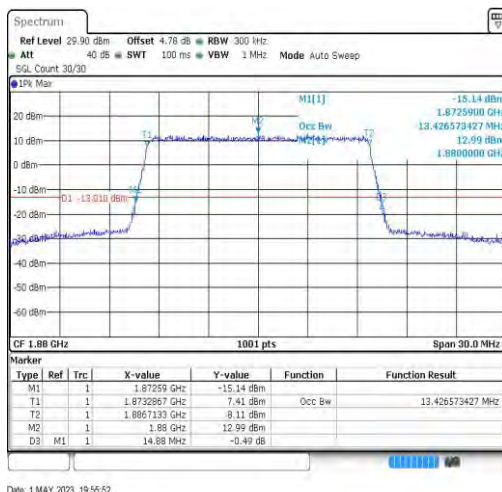
Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 40 of 72



Band2-15MHz-64QAM-18675-75RB#0-13.457



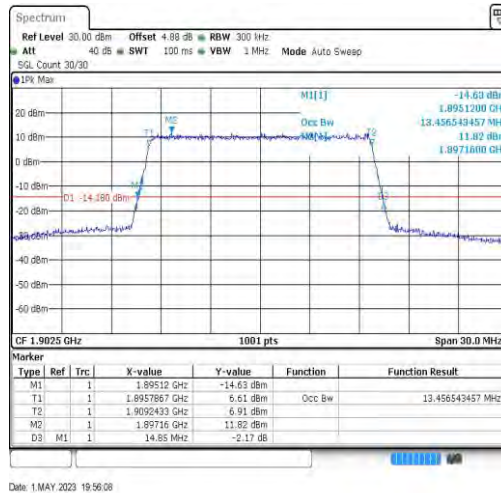
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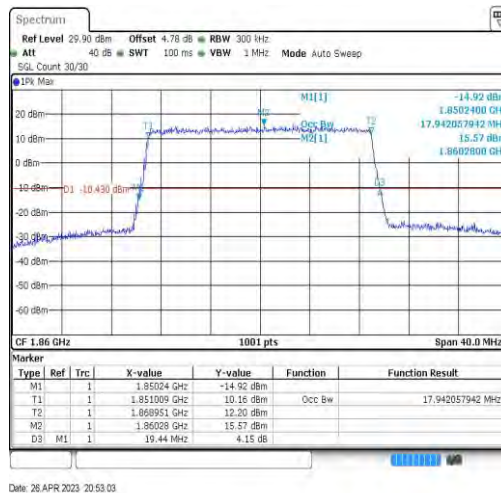
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Band2-15MHz-64QAM-19125-75RB#0-13.457



Date: 26 APR 2023 20:53:03

Band2-20MHz-QPSK-18700-100RB#0-17.942



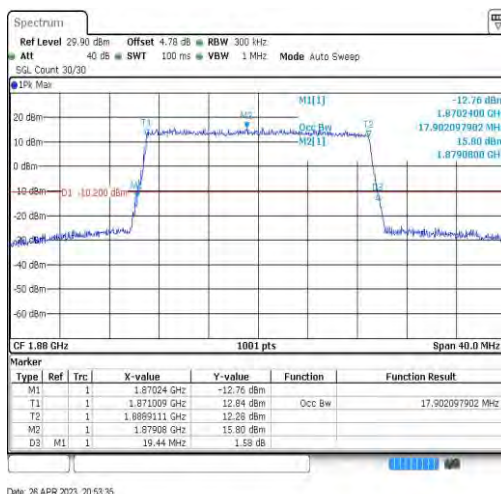
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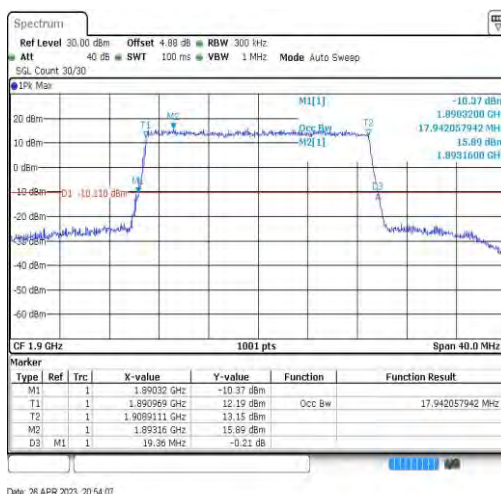
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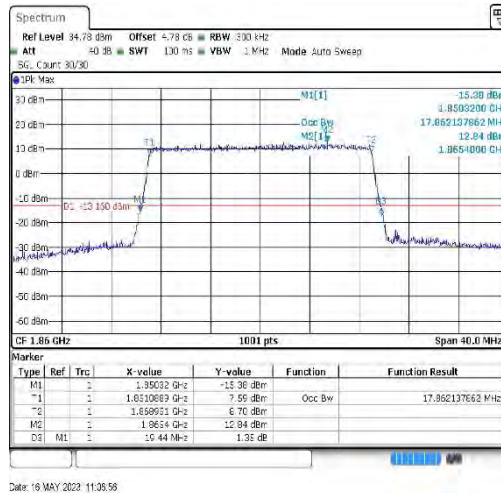
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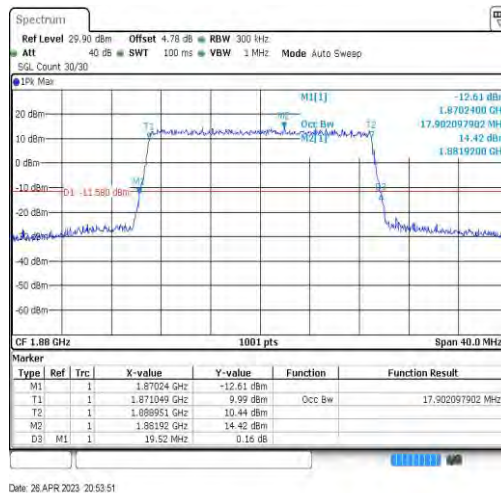
Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 43 of 72



Band2-20MHz-16QAM-18700-100RB#0-18.062



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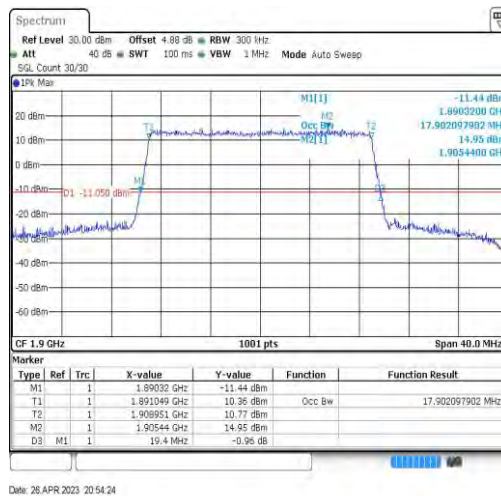
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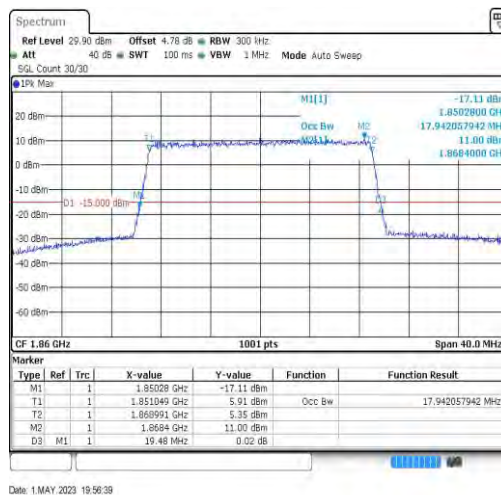
Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 44 of 72



Band2-20MHz-16QAM-19100-100RB#0-17.902



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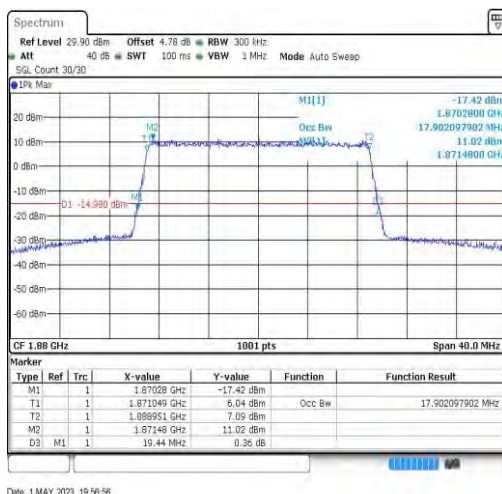
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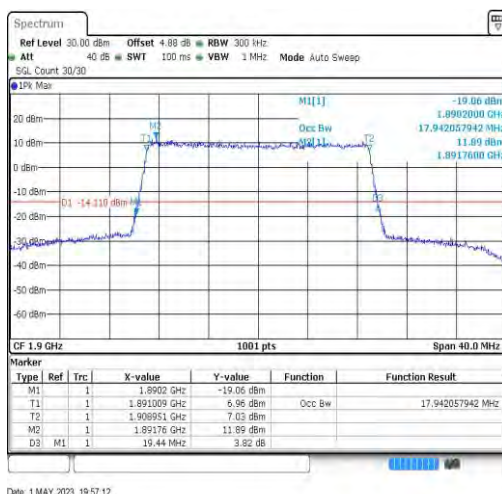
Rev.: 01

Page: 45 of 72



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Band2-20MHz-64QAM-18900-100RB#0-17.902



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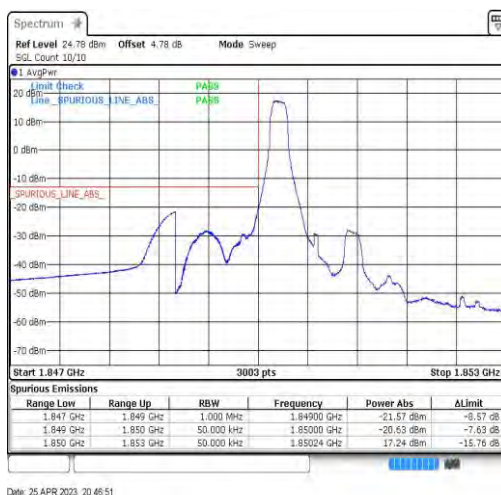
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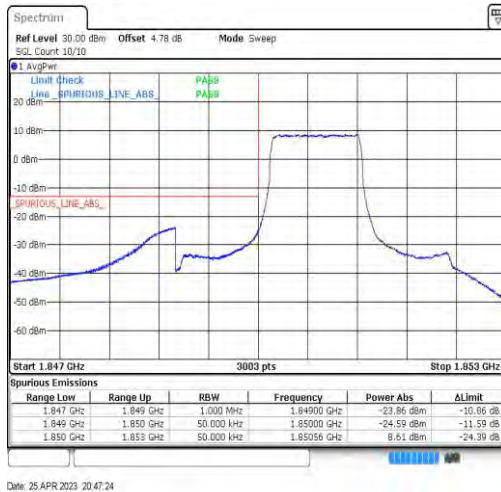


Band Edge

Test Graphs

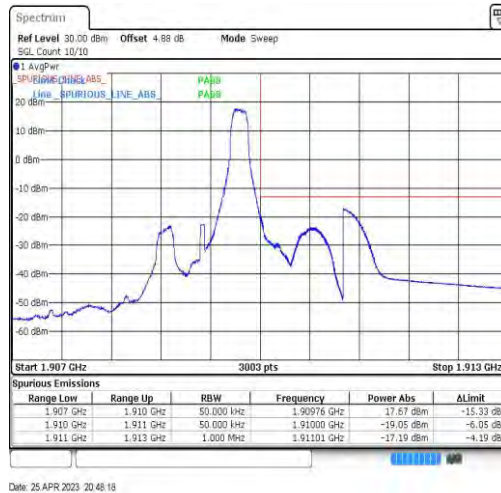


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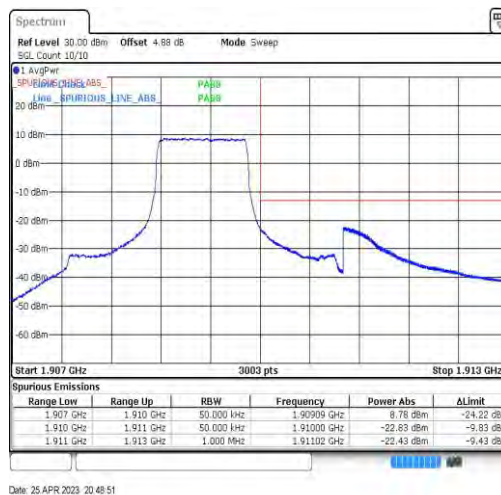


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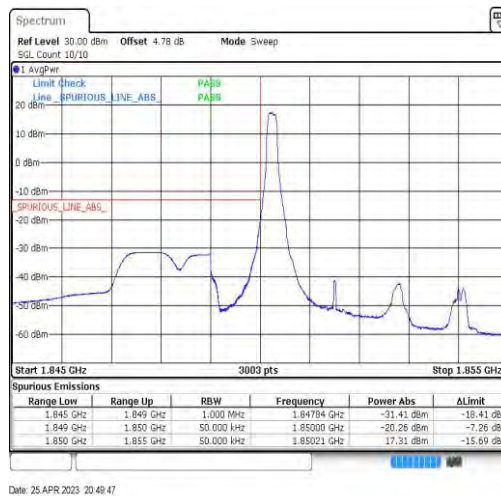
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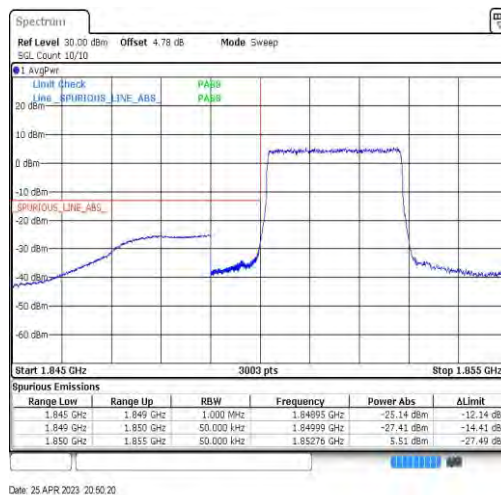
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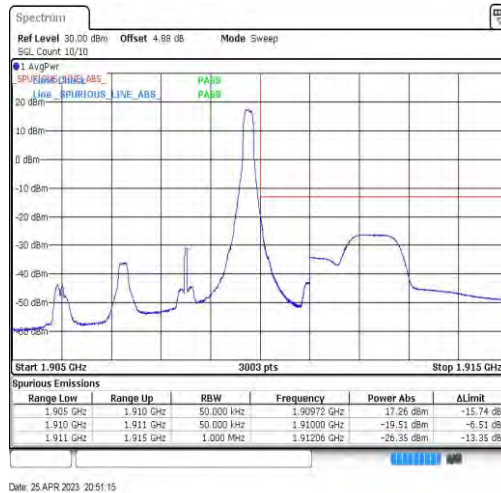
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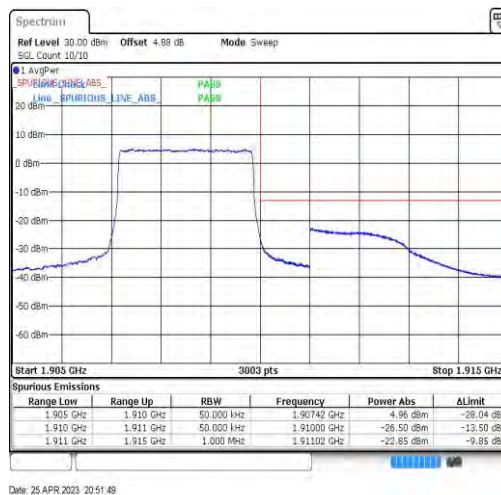
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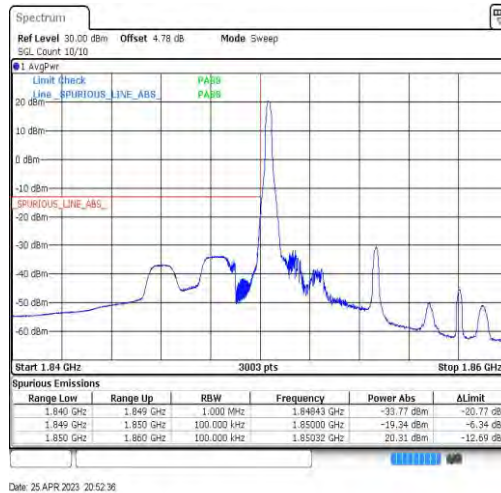
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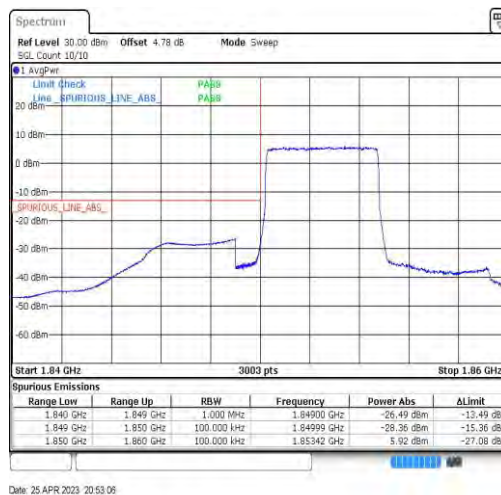
Report No.: ZEWM2303000343RG02

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



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



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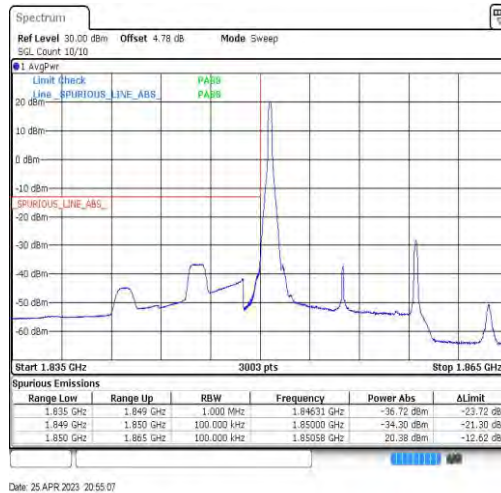
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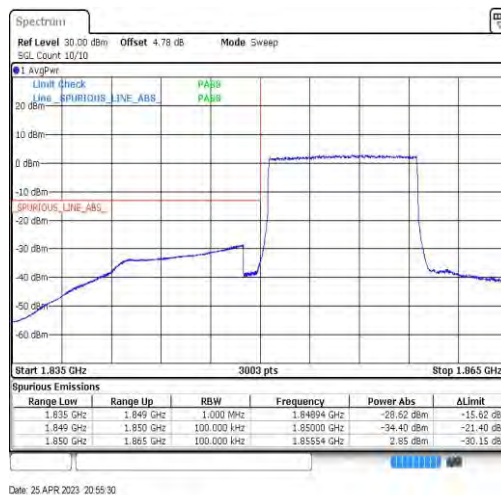
Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 52 of 72



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



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



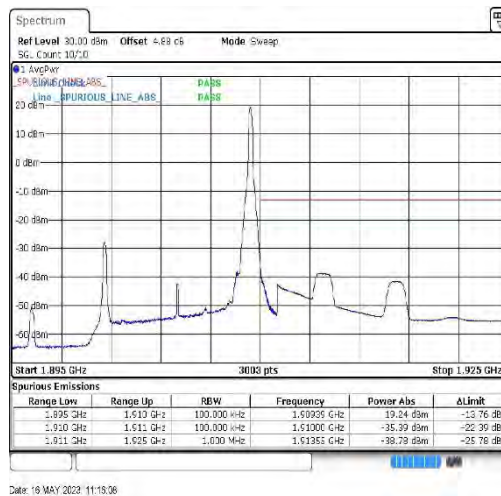
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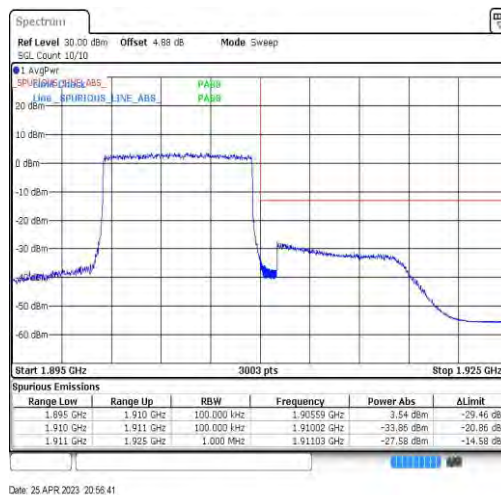
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Band2-10MHz-QPSK-19150-1RB#49



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



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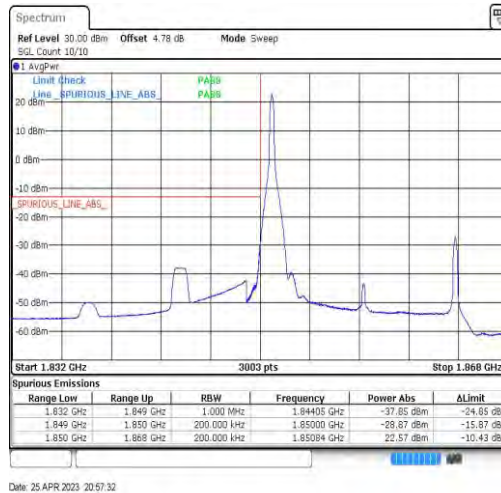
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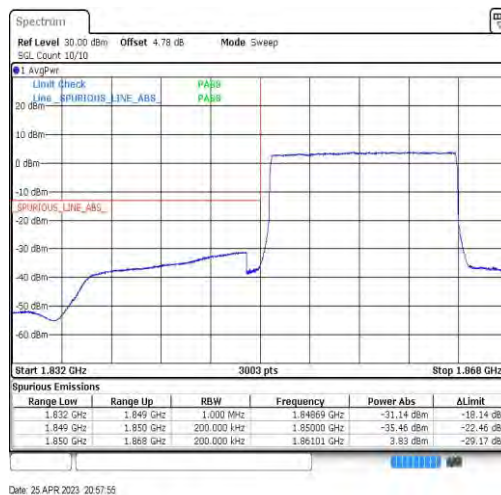
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Rev.: 01

Page: 54 of 72



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



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



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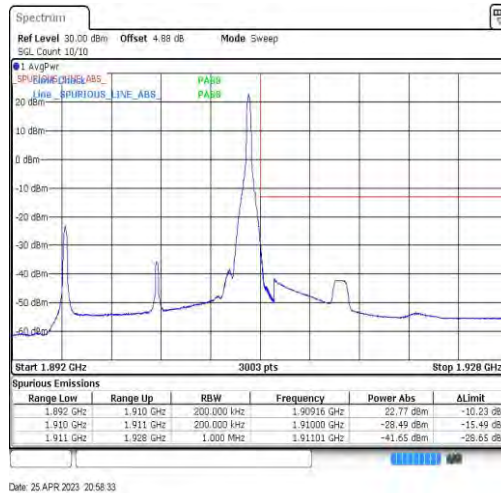
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Rev.: 01

Page: 55 of 72



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



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



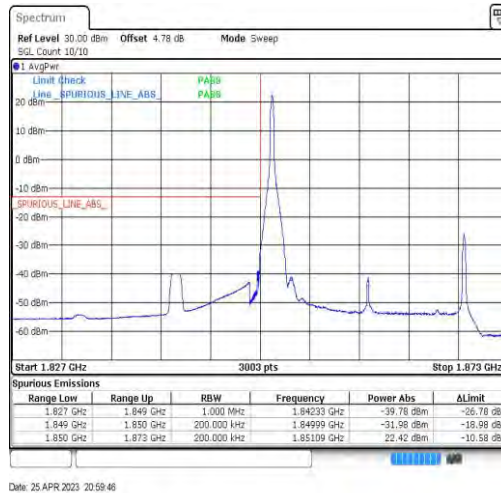
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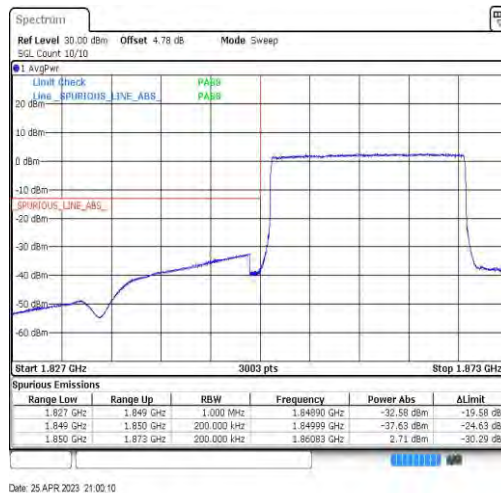
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Band2-20MHz-QPSK-18700-1RB#0



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



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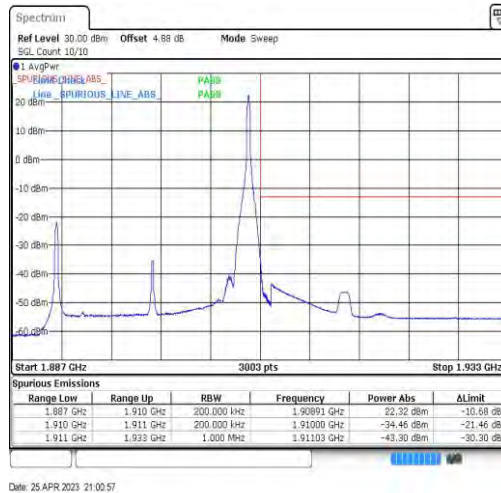
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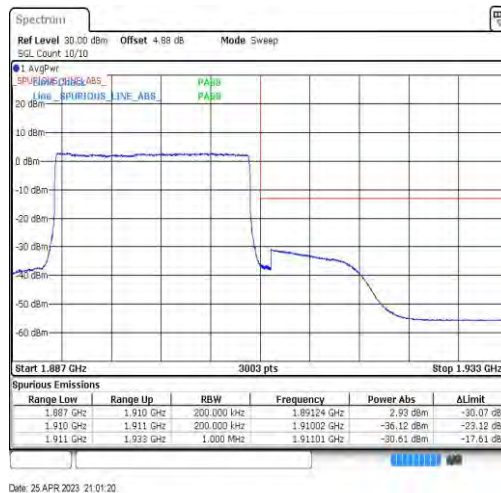
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Page: 57 of 72



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



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



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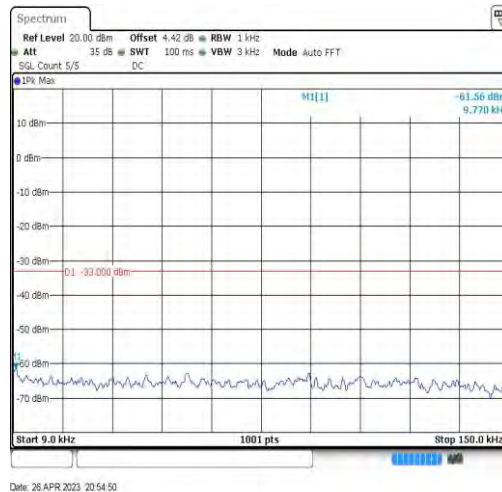
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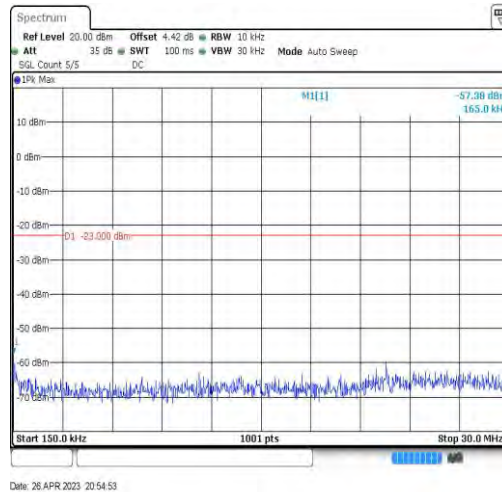


Conducted Spurious Emission

Test Graphs



Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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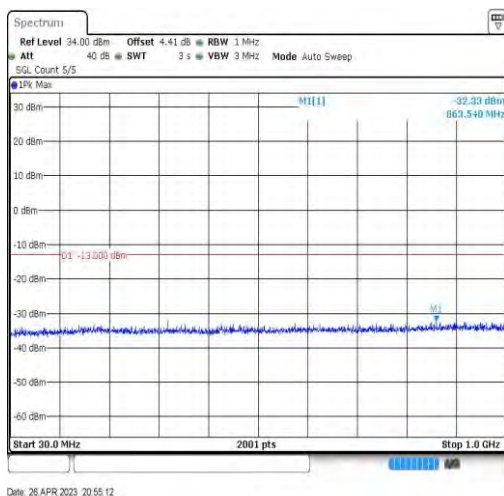
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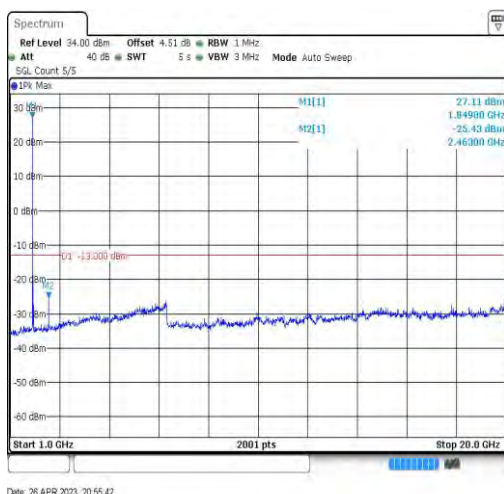
Rev.: 01

Page: 59 of 72



Date: 26 APR 2023 20:55:12

Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



Date: 26 APR 2023 20:55:42

Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



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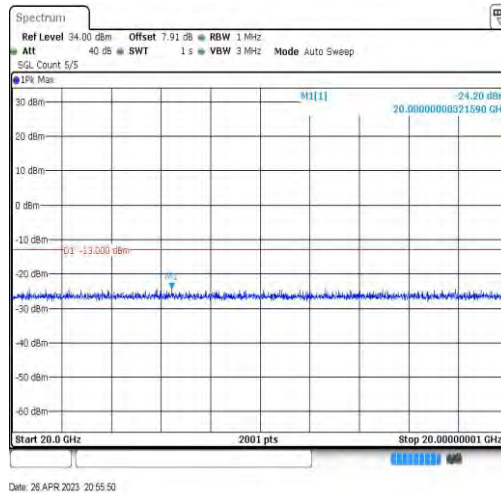
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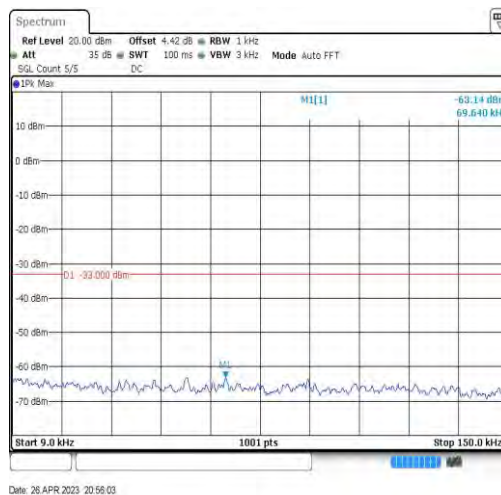
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Rev.: 01

Page: 60 of 72



Band2-20MHz-QPSK-18700-1RB#0-Range5:20000~40000MHz



Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



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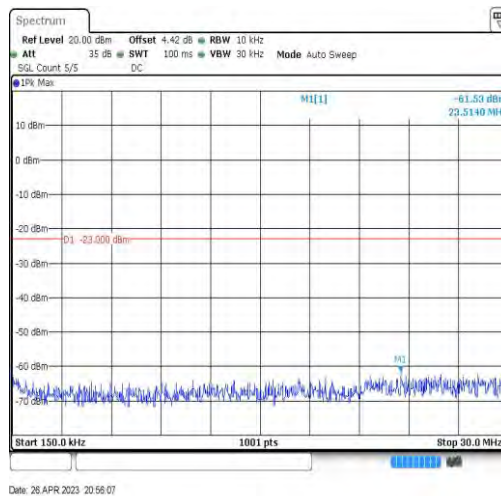
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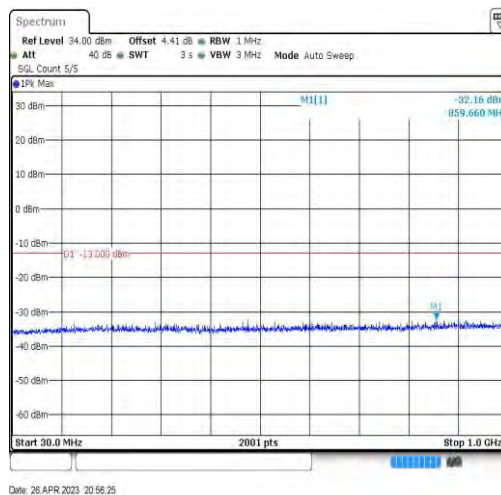
Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 61 of 72



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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



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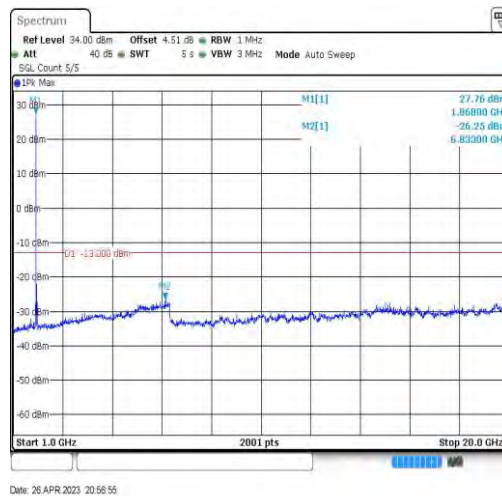
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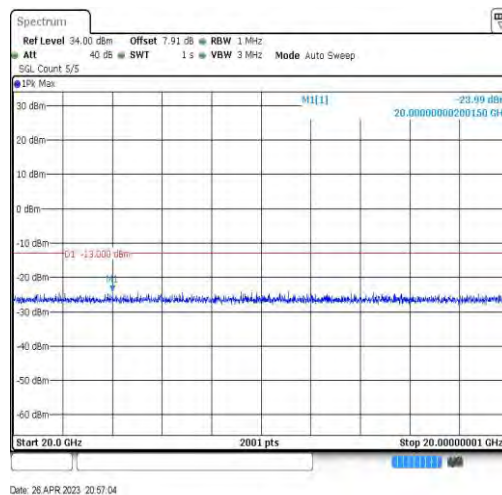
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Rev.: 01

Page: 62 of 72



Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



Band2-20MHz-QPSK-18900-1RB#0-Range5:20000~40000MHz



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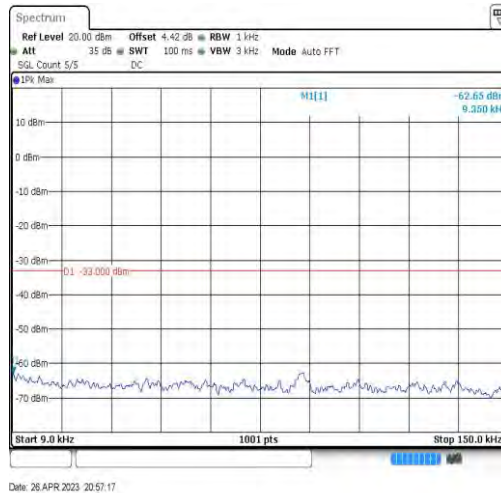
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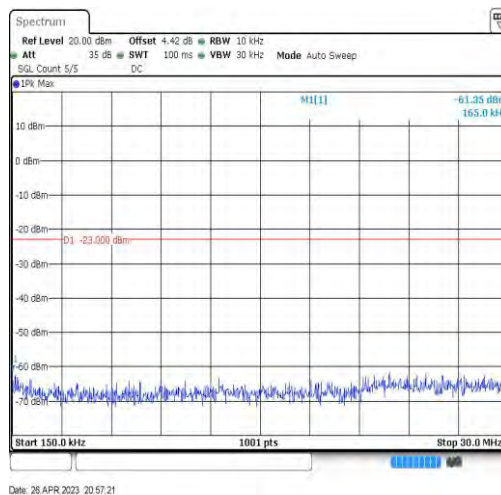
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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



Date: 26 APR 2023 20:57:21

Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



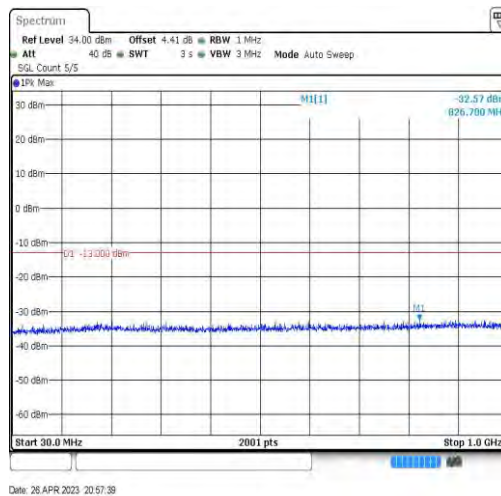
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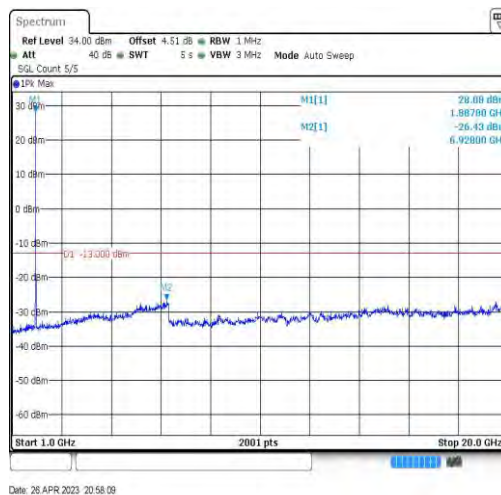
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Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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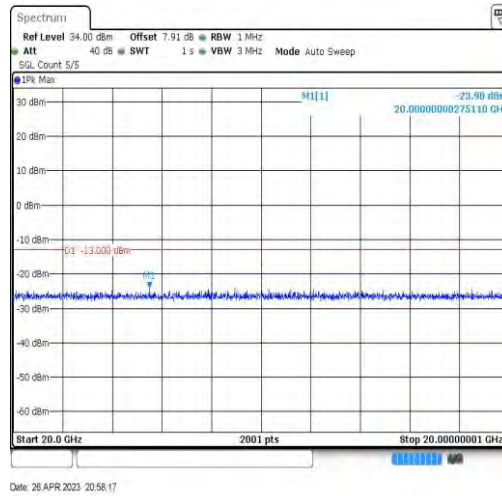
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Rev.: 01

Page: 65 of 72



Band2-20MHz-QPSK-19100-1RB#0-Range5:20000~40000MHz



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 66 of 72

Field Strength of Spurious Radiation

Test Band = LTE_2 ANT 13_20MHz_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3702.0351	56.31	-44.52	29.31	-54.16	-13.00	41.16	284	69	Horizontal
2	5355.8678	51.76	-42.13	32.24	-53.39	-13.00	40.39	169	198	Horizontal
3	7872.2436	50.48	-37.60	36.67	-45.71	-13.00	32.71	244	38	Horizontal
4	9516.3258	51.80	-35.95	37.80	-41.61	-13.00	28.61	299	206	Horizontal
5	11064.4032	51.29	-37.37	40.16	-41.18	-13.00	28.18	216	50	Horizontal
6	15204.6102	54.50	-35.33	39.71	-36.38	-13.00	23.38	269	222	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[cm]	Angle[°]	Polarity
1	3702.0351	52.02	-44.52	29.31	-58.45	-13.00	45.45	261	64	Vertical
2	5700.135	52.01	-41.14	32.50	-51.89	-13.00	38.89	310	195	Vertical
3	6875.4438	51.31	-39.28	35.50	-47.73	-13.00	34.73	188	124	Vertical
4	9458.5729	52.07	-35.75	37.55	-41.39	-13.00	28.39	263	299	Vertical
5	11004.4002	50.90	-37.01	40.10	-41.27	-13.00	28.27	316	176	Vertical
6	15202.3601	54.39	-35.31	39.70	-36.48	-13.00	23.48	199	299	Vertical



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 67 of 72

Test Band = LTE_2 ANT 13 _20MHz _TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3741.7871	53.81	-44.69	29.55	-56.59	-13.00	43.59	189	202	Horizontal
2	5613.1307	52.35	-41.40	32.57	-51.74	-13.00	38.74	346	334	Horizontal
3	7846.7423	50.64	-37.70	36.79	-45.53	-13.00	32.53	334	302	Horizontal
4	9466.8233	51.90	-35.80	37.60	-41.56	-13.00	28.56	242	150	Horizontal
5	11046.4023	51.19	-37.26	40.15	-41.18	-13.00	28.18	251	134	Horizontal
6	15197.1099	55.19	-35.40	39.72	-35.75	-13.00	22.75	150	294	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3601.5301	51.90	-44.35	28.91	-58.80	-13.00	45.80	165	278	Vertical
2	5694.1347	52.40	-41.16	32.50	-51.52	-13.00	38.52	365	118	Vertical
3	7852.7426	50.61	-37.68	36.78	-45.55	-13.00	32.55	400	114	Vertical
4	9448.8224	51.84	-35.69	37.50	-41.61	-13.00	28.61	148	338	Vertical
5	10985.6493	51.27	-37.04	40.11	-40.92	-13.00	27.92	226	226	Vertical
6	15198.6099	54.25	-35.34	39.71	-36.64	-13.00	23.64	325	70	Vertical



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 68 of 72

Test Band = LTE_2 ANT 13 _20MHz _TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.2891	55.41	-44.86	29.73	-54.98	-13.00	41.98	263	231	Horizontal
2	5691.1346	52.05	-41.17	32.50	-51.88	-13.00	38.88	169	135	Horizontal
3	7862.4931	50.46	-37.64	36.73	-45.71	-13.00	32.71	118	203	Horizontal
4	9453.3227	51.91	-35.72	37.52	-41.55	-13.00	28.55	254	355	Horizontal
5	11027.6514	51.02	-37.15	40.13	-41.26	-13.00	28.26	177	82	Horizontal
6	16592.9296	55.07	-35.36	39.49	-36.06	-13.00	23.06	294	219	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3600.78	52.06	-44.35	28.91	-58.64	-13.00	45.64	261	202	Vertical
2	5687.3844	52.01	-41.18	32.50	-51.93	-13.00	38.93	284	70	Vertical
3	7719.986	50.78	-37.63	36.64	-45.47	-13.00	32.47	166	18	Vertical
4	9472.0736	52.19	-35.83	37.63	-41.27	-13.00	28.27	236	158	Vertical
5	11029.1515	51.04	-37.16	40.13	-41.25	-13.00	28.25	284	190	Vertical
6	15205.3603	54.42	-35.34	39.71	-36.47	-13.00	23.47	222	314	Vertical



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 69 of 72

Test Band = LTE_2 ANT 31 _20MHz _TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.0351	55.04	-44.52	29.31	-55.43	-13.00	42.43	224	57	Horizontal
2	5676.8838	51.66	-41.21	32.50	-52.31	-13.00	39.31	216	188	Horizontal
3	7467.2234	50.88	-38.29	36.83	-45.84	-13.00	32.84	249	294	Horizontal
4	9478.8239	51.98	-35.88	37.67	-41.49	-13.00	28.49	266	41	Horizontal
5	11001.4001	50.52	-36.99	40.10	-41.63	-13.00	28.63	213	133	Horizontal
6	15186.6093	54.58	-35.82	39.78	-36.72	-13.00	23.72	229	93	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.0351	51.58	-44.52	29.31	-58.89	-13.00	45.89	246	256	Vertical
2	5702.3851	51.67	-41.15	32.50	-52.24	-13.00	39.24	116	220	Vertical
3	7834.7417	50.19	-37.75	36.74	-46.08	-13.00	33.08	263	327	Vertical
4	9463.0732	51.72	-35.78	37.58	-41.74	-13.00	28.74	249	37	Vertical
5	11003.6502	50.74	-37.00	40.10	-41.42	-13.00	28.42	226	260	Vertical
6	15209.1105	53.93	-35.37	39.72	-36.98	-13.00	23.98	234	224	Vertical



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 70 of 72

Test Band = LTE_2 ANT 31 _20MHz _TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3741.7871	54.33	-44.69	29.55	-56.07	-13.00	43.07	135	160	Horizontal
2	5692.6346	51.68	-41.16	32.50	-52.24	-13.00	39.24	266	81	Horizontal
3	7850.4925	50.08	-37.69	36.80	-46.07	-13.00	33.07	234	97	Horizontal
4	9477.3239	51.90	-35.87	37.66	-41.57	-13.00	28.57	241	195	Horizontal
5	10986.3993	50.61	-37.04	40.11	-41.58	-13.00	28.58	294	93	Horizontal
6	15215.1108	54.01	-35.43	39.73	-36.95	-13.00	23.95	222	234	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3909.7955	50.62	-44.20	29.74	-59.10	-13.00	46.10	212	74	Vertical
2	5709.1355	51.50	-41.17	32.50	-52.43	-13.00	39.43	164	141	Vertical
3	7866.2433	50.22	-37.62	36.70	-45.96	-13.00	32.96	251	129	Vertical
4	9451.8226	51.63	-35.71	37.51	-41.83	-13.00	28.83	236	26	Vertical
5	11101.1551	50.98	-37.61	40.20	-41.69	-13.00	28.69	215	248	Vertical
6	15207.6104	53.90	-35.36	39.72	-37.00	-13.00	24.00	266	358	Vertical



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Rev.: 01

Page: 71 of 72

Test Band = LTE_2 ANT 31 _20MHz _TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.2891	53.95	-44.86	29.73	-56.44	-13.00	43.44	155	192	Horizontal
2	5714.3857	51.76	-41.18	32.50	-52.18	-13.00	39.18	136	160	Horizontal
3	7424.4712	50.47	-38.28	36.75	-46.32	-13.00	33.32	264	117	Horizontal
4	9476.5738	51.91	-35.86	37.66	-41.55	-13.00	28.55	221	200	Horizontal
5	11004.4002	50.70	-37.01	40.10	-41.47	-13.00	28.47	231	160	Horizontal
6	15217.3609	54.25	-35.45	39.73	-36.73	-13.00	23.73	226	180	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3735.7868	51.24	-44.66	29.51	-59.17	-13.00	46.17	322	104	Vertical
2	5666.3833	51.82	-41.24	32.50	-52.18	-13.00	39.18	169	92	Vertical
3	7460.473	50.48	-38.29	36.82	-46.25	-13.00	33.25	264	302	Vertical
4	9434.5717	51.83	-35.60	37.44	-41.59	-13.00	28.59	223	144	Vertical
5	11024.6512	50.50	-37.13	40.12	-41.77	-13.00	28.77	216	247	Vertical
6	15205.3603	54.03	-35.34	39.71	-36.86	-13.00	23.86	264	124	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Report No.: ZEWM2303000343RG02

Rev.: 01

Page: 72 of 72

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	0.00	0.000000	PASS
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	0.10	0.000053	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	0.50	0.000266	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	3.10	0.001649	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-0.40	-0.000213	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	1.80	0.000957	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-0.90	-0.000479	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	0.10	0.000053	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	0.20	0.000106	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	0.20	0.000106	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	2.70	0.001436	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	1.20	0.000638	PASS

---End of Attachment---



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