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# Appendix B.3

## LTE Band 2

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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	22.45	21.25	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.50	21.30	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.51	21.31	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.44	20.24	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.58	21.38	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.60	21.40	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.59	21.39	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.50	20.30	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.40	21.20	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.45	21.25	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.40	21.20	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.35	20.15	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.58	20.38	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.70	20.50	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.66	20.46	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.49	19.29	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.70	20.50	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.66	20.46	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.79	20.59	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.56	19.36	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.49	20.29	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.54	20.34	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.49	20.29	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.42	19.22	33.00	PASS
Band2	1.4MHz	64QAM	18607	1RB#0	20.54	19.34	33.00	PASS
Band2	1.4MHz	64QAM	18607	1RB#2	20.55	19.35	33.00	PASS

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Band2	1.4MHz	64QAM	18607	1RB#5	20.60	19.40	33.00	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	19.54	18.34	33.00	PASS
Band2	1.4MHz	64QAM	18900	1RB#0	20.64	19.44	33.00	PASS
Band2	1.4MHz	64QAM	18900	1RB#2	20.62	19.42	33.00	PASS
Band2	1.4MHz	64QAM	18900	1RB#5	20.59	19.39	33.00	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	19.56	18.36	33.00	PASS
Band2	1.4MHz	64QAM	19193	1RB#0	20.43	19.23	33.00	PASS
Band2	1.4MHz	64QAM	19193	1RB#2	20.38	19.18	33.00	PASS
Band2	1.4MHz	64QAM	19193	1RB#5	20.42	19.22	33.00	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	19.43	18.23	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.44	21.24	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.50	21.30	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.55	21.35	33.00	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.48	20.28	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.59	21.39	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.58	21.38	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.58	21.38	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.47	20.27	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.43	21.23	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.45	21.25	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.43	21.23	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.38	20.18	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.73	20.53	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.79	20.59	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.69	20.49	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.48	19.28	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.65	20.45	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.69	20.49	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.67	20.47	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.45	19.25	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.61	20.41	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.48	20.28	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.55	20.35	33.00	PASS

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Band2	3MHz	16QAM	19185	15RB#0	20.37	19.17	33.00	PASS
Band2	3MHz	64QAM	18615	1RB#0	20.48	19.28	33.00	PASS
Band2	3MHz	64QAM	18615	1RB#8	20.54	19.34	33.00	PASS
Band2	3MHz	64QAM	18615	1RB#14	20.62	19.42	33.00	PASS
Band2	3MHz	64QAM	18615	15RB#0	19.57	18.37	33.00	PASS
Band2	3MHz	64QAM	18900	1RB#0	20.60	19.40	33.00	PASS
Band2	3MHz	64QAM	18900	1RB#8	20.62	19.42	33.00	PASS
Band2	3MHz	64QAM	18900	1RB#14	20.66	19.46	33.00	PASS
Band2	3MHz	64QAM	18900	15RB#0	19.63	18.43	33.00	PASS
Band2	3MHz	64QAM	19185	1RB#0	20.51	19.31	33.00	PASS
Band2	3MHz	64QAM	19185	1RB#8	20.41	19.21	33.00	PASS
Band2	3MHz	64QAM	19185	1RB#14	20.41	19.21	33.00	PASS
Band2	3MHz	64QAM	19185	15RB#0	19.50	18.30	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.53	21.33	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.63	21.43	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.63	21.43	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.50	20.30	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.66	21.46	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.71	21.51	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.66	21.46	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.54	20.34	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.52	21.32	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.55	21.35	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.48	21.28	33.00	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.44	20.24	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.62	20.42	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.73	20.53	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.71	20.51	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.47	19.27	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.75	20.55	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.74	20.54	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.70	20.50	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.56	19.36	33.00	PASS

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Band2	5MHz	16QAM	19175	1RB#12	21.61	20.41	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.56	20.36	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.41	19.21	33.00	PASS
Band2	5MHz	64QAM	18625	1RB#0	20.63	19.43	33.00	PASS
Band2	5MHz	64QAM	18625	1RB#12	20.71	19.51	33.00	PASS
Band2	5MHz	64QAM	18625	1RB#24	20.62	19.42	33.00	PASS
Band2	5MHz	64QAM	18625	25RB#0	19.61	18.41	33.00	PASS
Band2	5MHz	64QAM	18900	1RB#0	20.72	19.52	33.00	PASS
Band2	5MHz	64QAM	18900	1RB#12	20.80	19.60	33.00	PASS
Band2	5MHz	64QAM	18900	1RB#24	20.65	19.45	33.00	PASS
Band2	5MHz	64QAM	18900	25RB#0	19.71	18.51	33.00	PASS
Band2	5MHz	64QAM	19175	1RB#0	20.55	19.35	33.00	PASS
Band2	5MHz	64QAM	19175	1RB#12	20.52	19.32	33.00	PASS
Band2	5MHz	64QAM	19175	1RB#24	20.51	19.31	33.00	PASS
Band2	5MHz	64QAM	19175	25RB#0	19.52	18.32	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.48	21.28	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.57	21.37	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.59	21.39	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.53	20.33	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.63	21.43	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.64	21.44	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.59	21.39	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.54	20.34	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.47	21.27	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.52	21.32	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.45	21.25	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.35	20.15	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.61	20.41	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.78	20.58	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.77	20.57	33.00	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.46	19.26	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.74	20.54	33.00	PASS

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Band2	10MHz	16QAM	18900	1RB#24	21.77	20.57	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.71	20.51	33.00	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.49	19.29	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.69	20.49	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.71	20.51	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.63	20.43	33.00	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.36	19.16	33.00	PASS
Band2	10MHz	64QAM	18650	1RB#0	20.59	19.39	33.00	PASS
Band2	10MHz	64QAM	18650	1RB#24	20.65	19.45	33.00	PASS
Band2	10MHz	64QAM	18650	1RB#49	20.68	19.48	33.00	PASS
Band2	10MHz	64QAM	18650	50RB#0	19.62	18.42	33.00	PASS
Band2	10MHz	64QAM	18900	1RB#0	20.64	19.44	33.00	PASS
Band2	10MHz	64QAM	18900	1RB#24	20.69	19.49	33.00	PASS
Band2	10MHz	64QAM	18900	1RB#49	20.66	19.46	33.00	PASS
Band2	10MHz	64QAM	18900	50RB#0	19.65	18.45	33.00	PASS
Band2	10MHz	64QAM	19150	1RB#0	20.46	19.26	33.00	PASS
Band2	10MHz	64QAM	19150	1RB#24	20.50	19.30	33.00	PASS
Band2	10MHz	64QAM	19150	1RB#49	20.57	19.37	33.00	PASS
Band2	10MHz	64QAM	19150	50RB#0	19.52	18.32	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.34	21.14	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.57	21.37	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.54	21.34	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.51	20.31	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.48	21.28	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.63	21.43	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.53	21.33	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.50	20.30	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.38	21.18	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.48	21.28	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.37	21.17	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.39	20.19	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.55	20.35	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.80	20.60	33.00	PASS

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Band2	15MHz	16QAM	18675	1RB#74	21.60	20.40	33.00	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.48	19.28	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.61	20.41	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.75	20.55	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.72	20.52	33.00	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.47	19.27	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.56	20.36	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.56	20.36	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.50	20.30	33.00	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.32	19.12	33.00	PASS
Band2	15MHz	64QAM	18675	1RB#0	20.49	19.29	33.00	PASS
Band2	15MHz	64QAM	18675	1RB#38	20.62	19.42	33.00	PASS
Band2	15MHz	64QAM	18675	1RB#74	20.55	19.35	33.00	PASS
Band2	15MHz	64QAM	18675	75RB#0	19.59	18.39	33.00	PASS
Band2	15MHz	64QAM	18900	1RB#0	20.56	19.36	33.00	PASS
Band2	15MHz	64QAM	18900	1RB#38	20.70	19.50	33.00	PASS
Band2	15MHz	64QAM	18900	1RB#74	20.61	19.41	33.00	PASS
Band2	15MHz	64QAM	18900	75RB#0	19.59	18.39	33.00	PASS
Band2	15MHz	64QAM	19125	1RB#0	20.43	19.23	33.00	PASS
Band2	15MHz	64QAM	19125	1RB#38	20.51	19.31	33.00	PASS
Band2	15MHz	64QAM	19125	1RB#74	20.42	19.22	33.00	PASS
Band2	15MHz	64QAM	19125	75RB#0	19.49	18.29	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.30	21.10	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.65	21.45	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.54	21.34	33.00	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.50	20.30	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.46	21.26	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.66	21.46	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.51	21.31	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.48	20.28	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.42	21.22	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.53	21.33	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.38	21.18	33.00	PASS

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Band2	20MHz	QPSK	19100	100RB#0	21.55	20.35	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.51	20.31	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.76	20.56	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.69	20.49	33.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.48	19.28	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.57	20.37	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.79	20.59	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.58	20.38	33.00	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.46	19.26	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.57	20.37	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.72	20.52	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.42	20.22	33.00	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.36	19.16	33.00	PASS
Band2	20MHz	64QAM	18700	1RB#0	20.48	19.28	33.00	PASS
Band2	20MHz	64QAM	18700	1RB#49	20.73	19.53	33.00	PASS
Band2	20MHz	64QAM	18700	1RB#99	20.63	19.43	33.00	PASS
Band2	20MHz	64QAM	18700	100RB#0	19.62	18.42	33.00	PASS
Band2	20MHz	64QAM	18900	1RB#0	20.50	19.30	33.00	PASS
Band2	20MHz	64QAM	18900	1RB#49	20.73	19.53	33.00	PASS
Band2	20MHz	64QAM	18900	1RB#99	20.57	19.37	33.00	PASS
Band2	20MHz	64QAM	18900	100RB#0	19.62	18.42	33.00	PASS
Band2	20MHz	64QAM	19100	1RB#0	20.50	19.30	33.00	PASS
Band2	20MHz	64QAM	19100	1RB#49	20.84	19.64	33.00	PASS
Band2	20MHz	64QAM	19100	1RB#99	20.62	19.42	33.00	PASS
Band2	20MHz	64QAM	19100	100RB#0	19.55	18.35	33.00	PASS

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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	5.42	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.40	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.48	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.16	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.14	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.30	13	PASS
Band2	20MHz	64QAM	18700	100RB#0	6.50	13	PASS
Band2	20MHz	64QAM	18900	100RB#0	6.44	13	PASS
Band2	20MHz	64QAM	19100	100RB#0	6.52	13	PASS



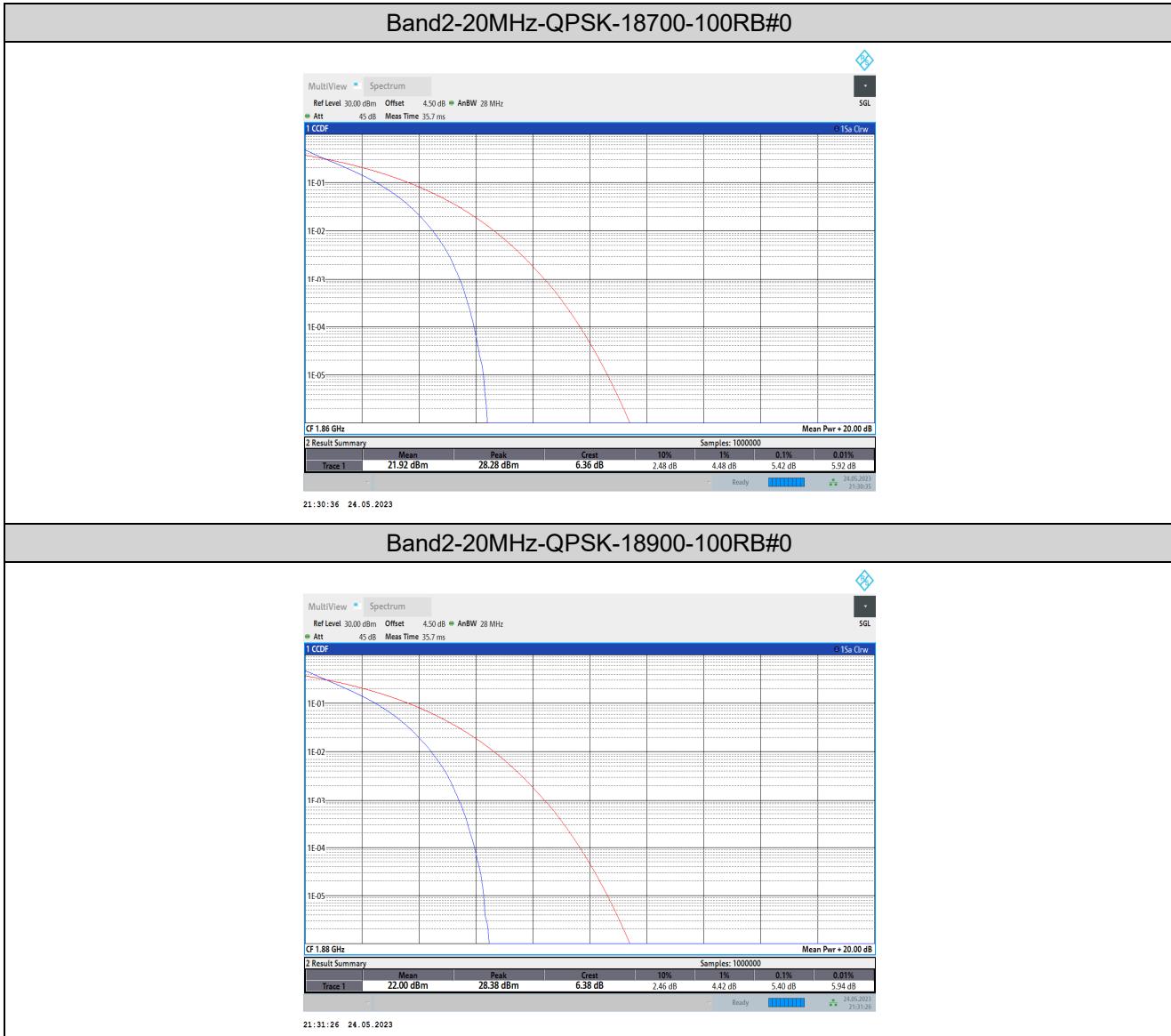
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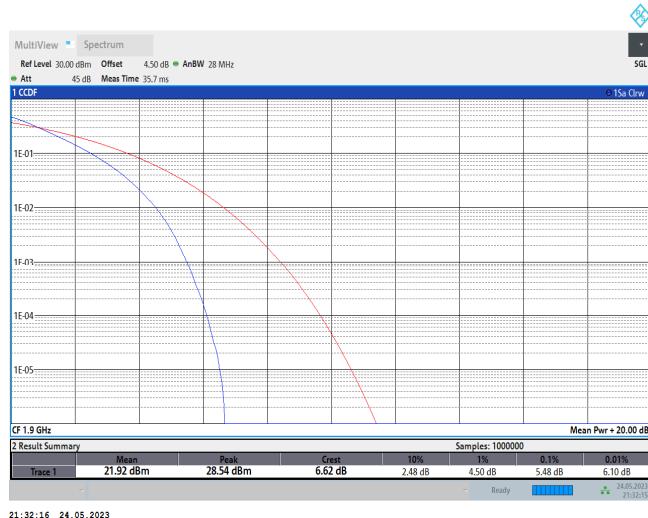
## Test Graphs



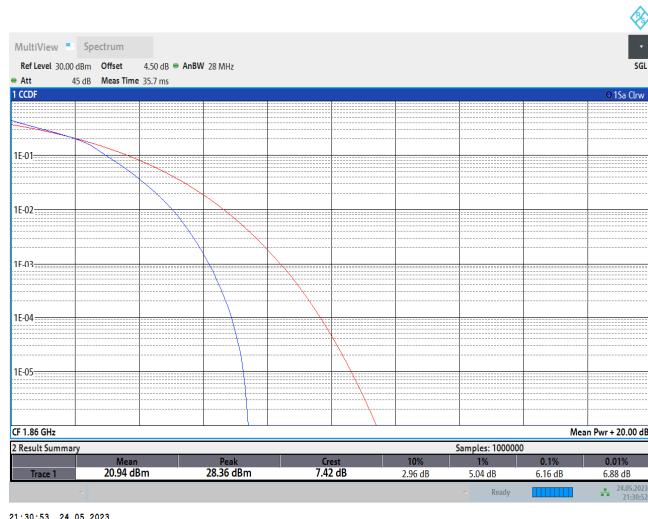
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Band2-20MHz-QPSK-19100-100RB#0



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

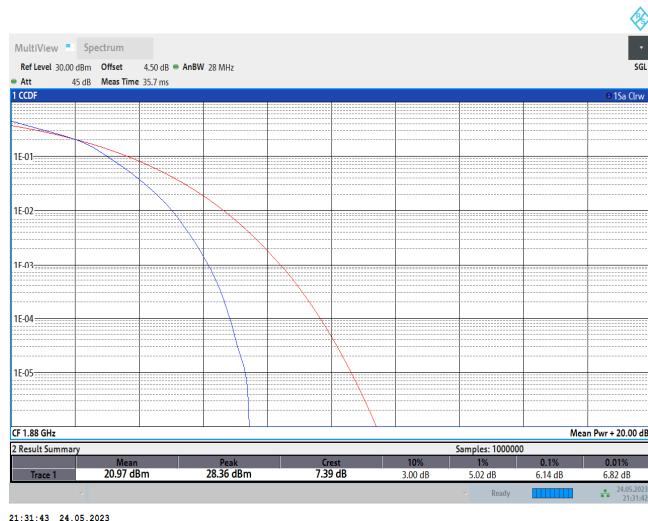


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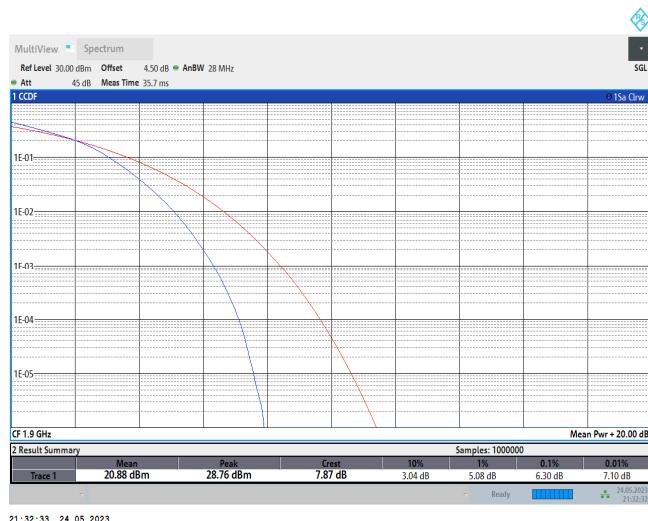
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Band2-20MHz-16QAM-18900-100RB#0



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



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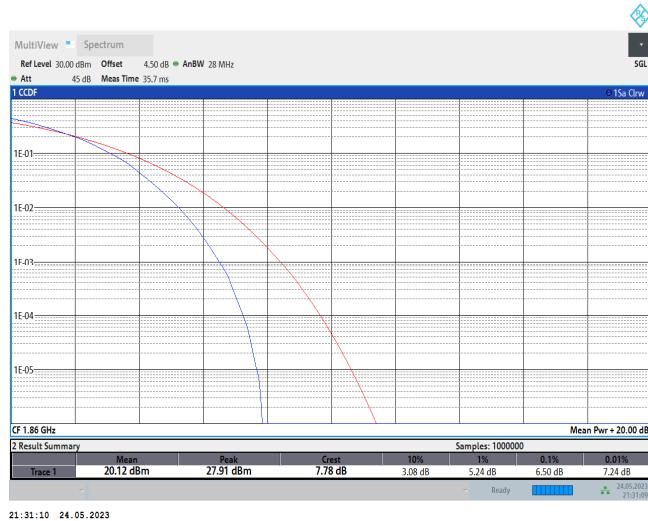


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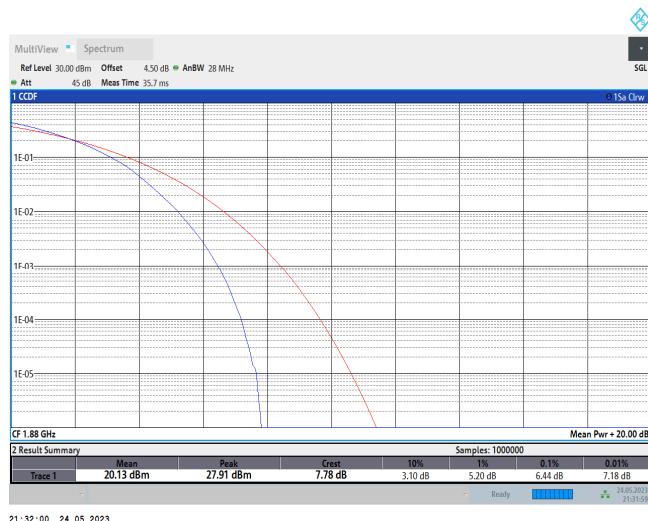
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Band2-20MHz-64QAM-18700-100RB#0



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

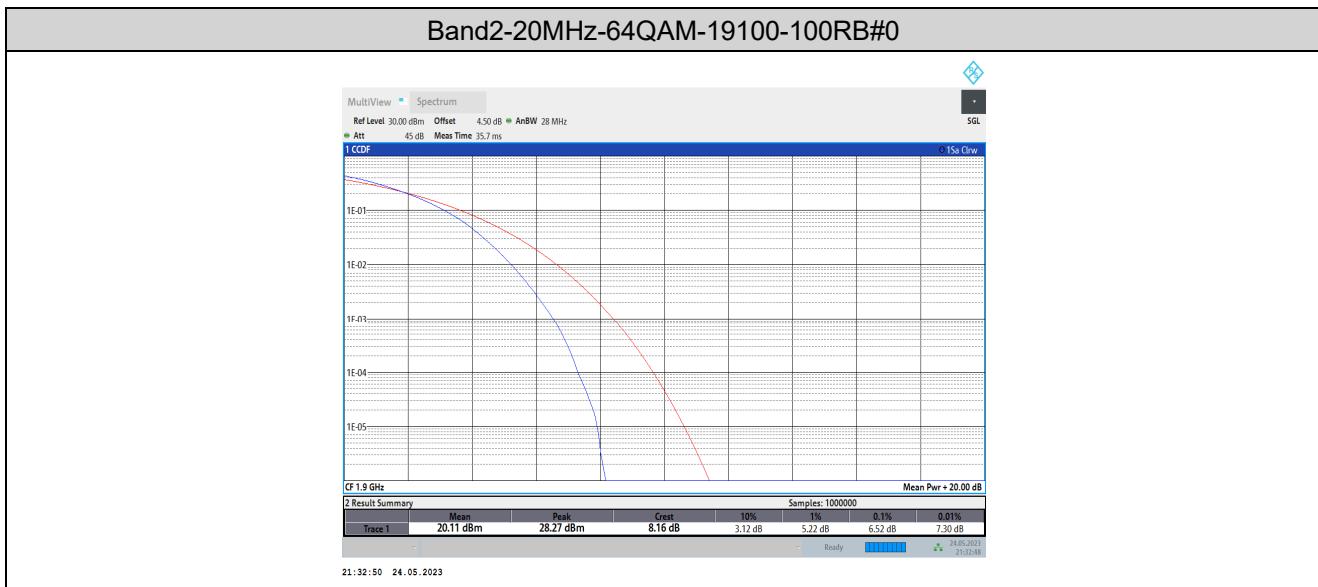


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## Modulation Characteristics

## 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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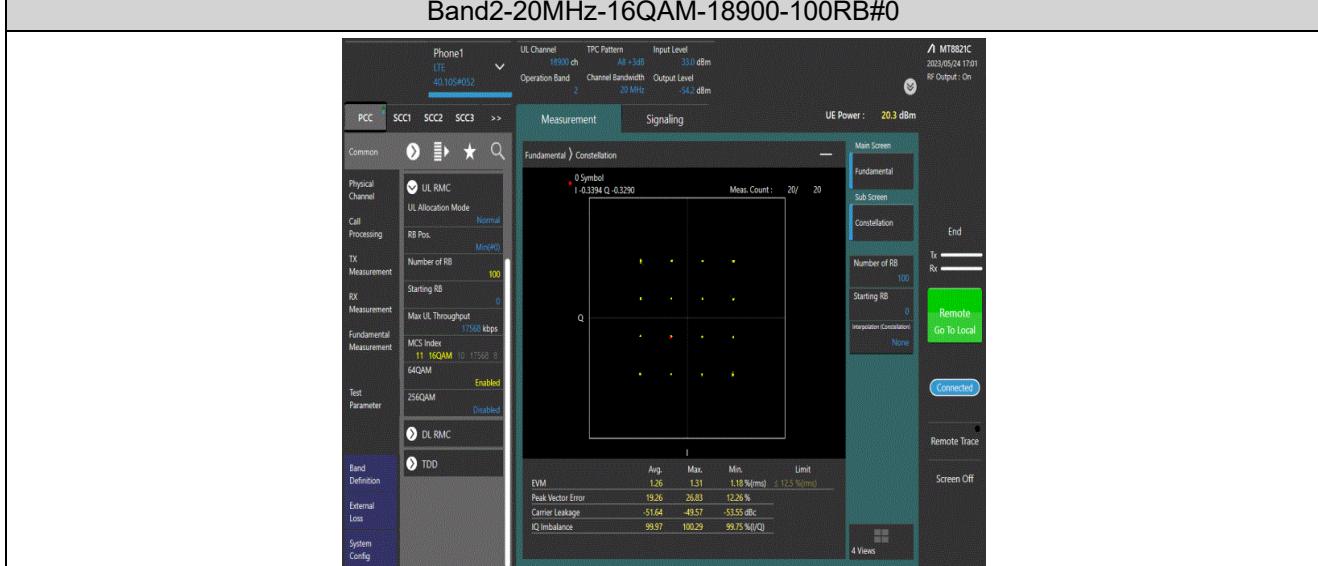
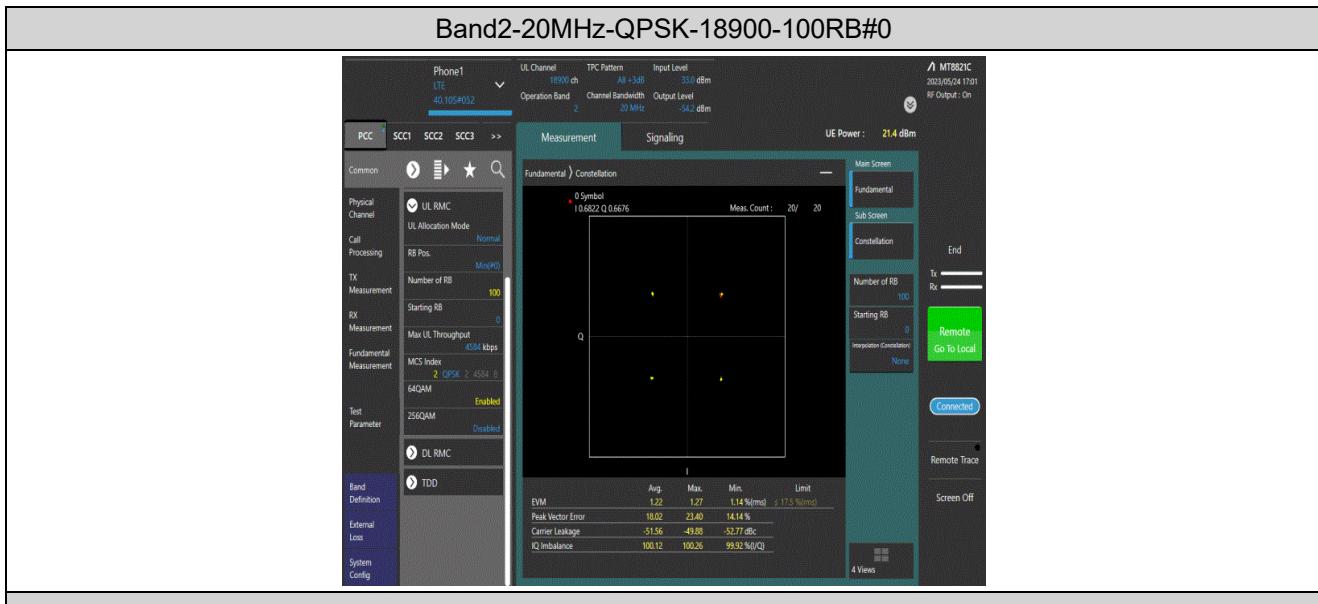
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## Test Graphs

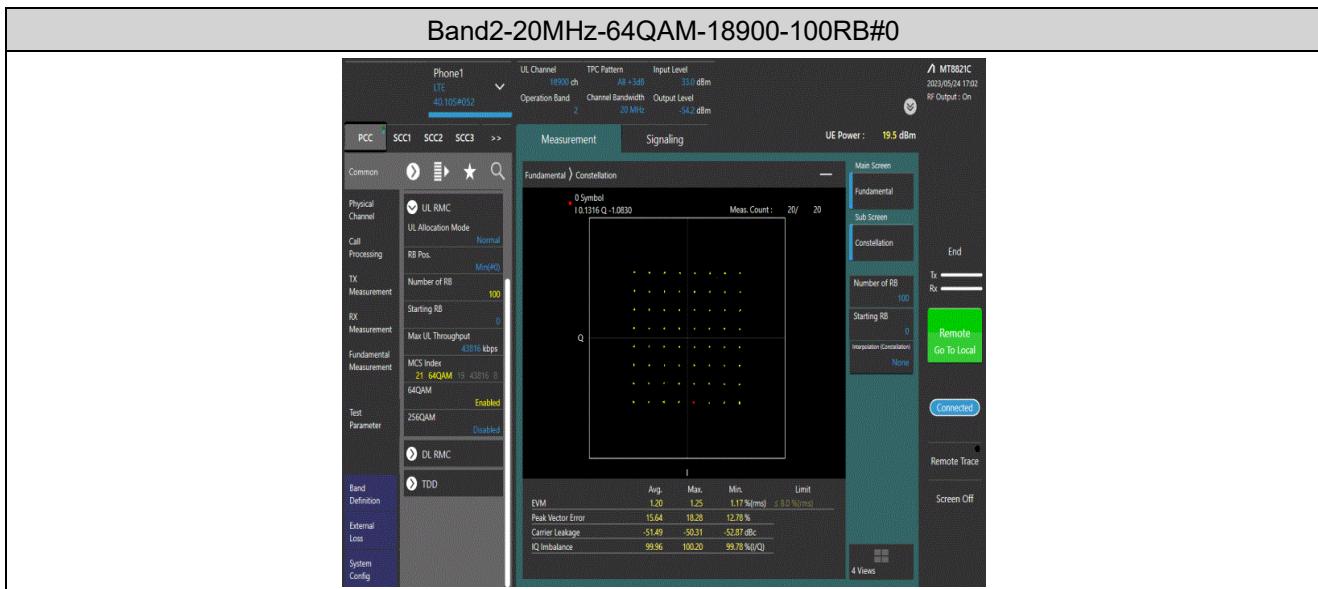


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## 26dB Bandwidth and Occupied Bandwidth

### 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	1.078	1.27	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.090	1.29	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.092	1.30	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.088	1.26	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.097	1.30	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	1.102	1.29	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	1.097	1.30	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	1.089	1.26	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.691	2.87	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.698	2.89	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.698	2.89	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.684	2.88	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.686	2.90	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.693	2.93	PASS
Band2	3MHz	64QAM	18615	15RB#0	2.682	2.90	PASS
Band2	3MHz	64QAM	18900	15RB#0	2.688	2.91	PASS
Band2	3MHz	64QAM	19185	15RB#0	2.683	2.93	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.469	4.81	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.471	4.78	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.452	4.84	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.473	4.84	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.468	4.85	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.463	4.83	PASS
Band2	5MHz	64QAM	18625	25RB#0	4.484	4.79	PASS
Band2	5MHz	64QAM	18900	25RB#0	4.461	4.78	PASS
Band2	5MHz	64QAM	19175	25RB#0	4.483	4.81	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.928	9.56	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.945	9.46	PASS

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Band2	10MHz	QPSK	19150	50RB#0	8.923	9.52	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.958	9.64	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.944	9.50	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.897	9.48	PASS
Band2	10MHz	64QAM	18650	50RB#0	8.925	9.52	PASS
Band2	10MHz	64QAM	18900	50RB#0	8.951	9.50	PASS
Band2	10MHz	64QAM	19150	50RB#0	8.918	9.58	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.523	14.49	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.452	14.55	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.397	14.58	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.460	14.64	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.400	14.49	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.438	14.49	PASS
Band2	15MHz	64QAM	18675	75RB#0	13.459	14.40	PASS
Band2	15MHz	64QAM	18900	75RB#0	13.466	14.52	PASS
Band2	15MHz	64QAM	19125	75RB#0	13.375	14.46	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.942	19.20	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.923	19.08	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.867	19.00	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.899	19.08	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.842	18.76	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.891	18.88	PASS
Band2	20MHz	64QAM	18700	100RB#0	17.907	18.88	PASS
Band2	20MHz	64QAM	18900	100RB#0	17.891	18.96	PASS
Band2	20MHz	64QAM	19100	100RB#0	17.826	19.08	PASS

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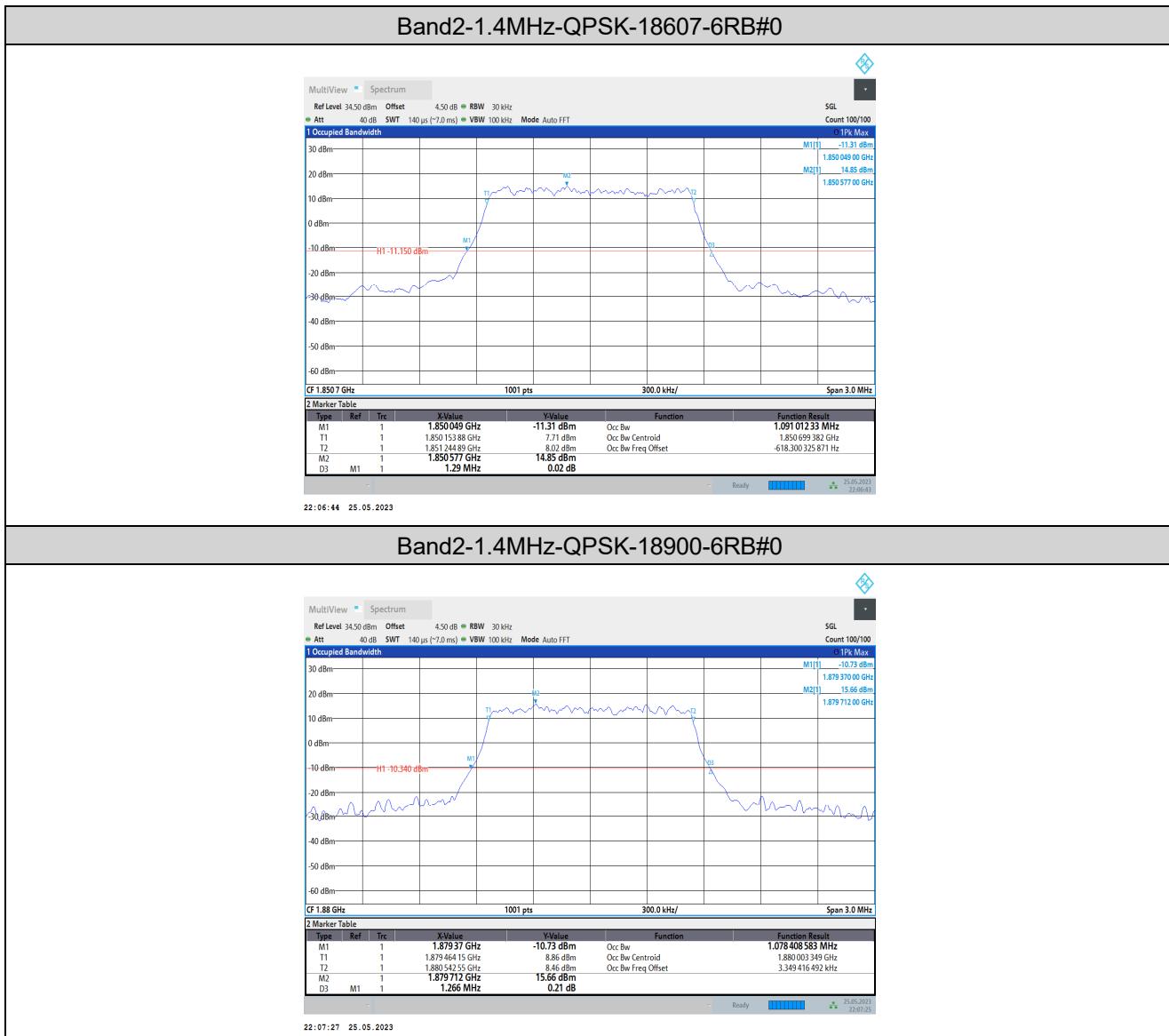
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## Test Graphs



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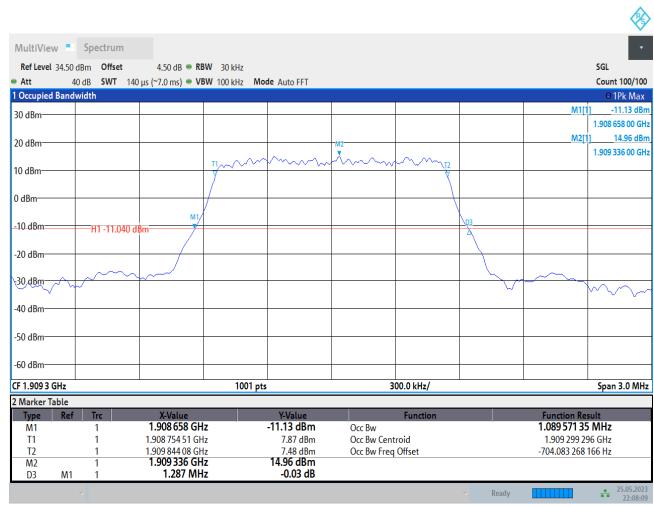
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Band2-1.4MHz-QPSK-19193-6RB#0



Band2-1 4MHz-16QAM-18607-6RB#0

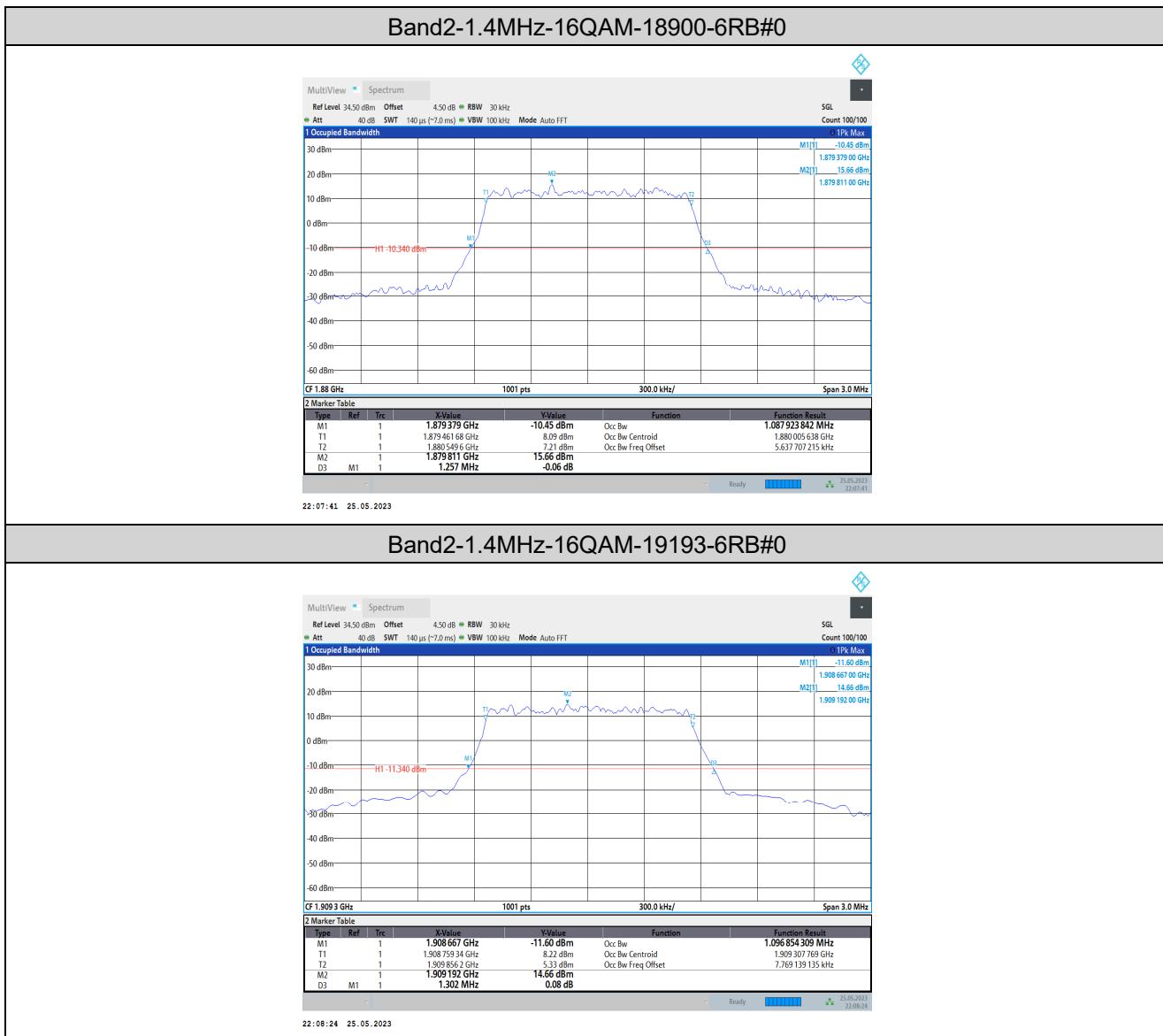


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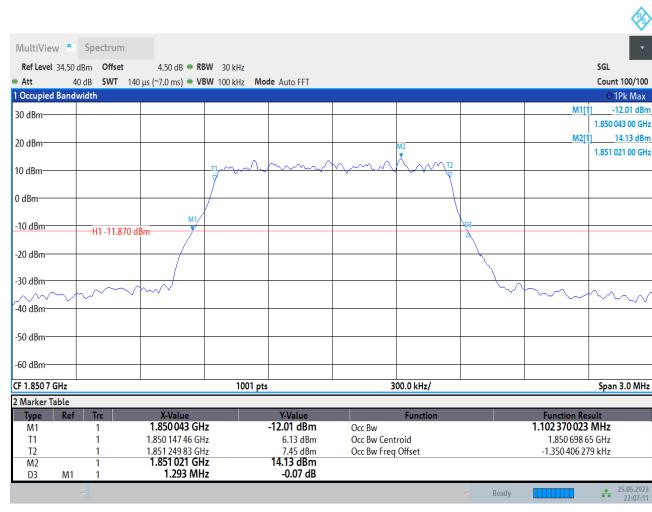


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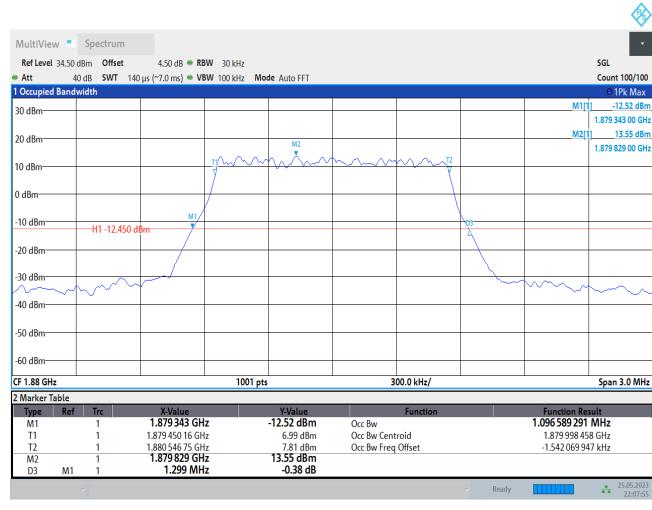
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## Band2-1.4MHz-64QAM-18607-6RB#0



22:07:12 25.05.2023

## Band2-1.4MHz-64QAM-18900-6RB#0



22:07:55 25.05.2023

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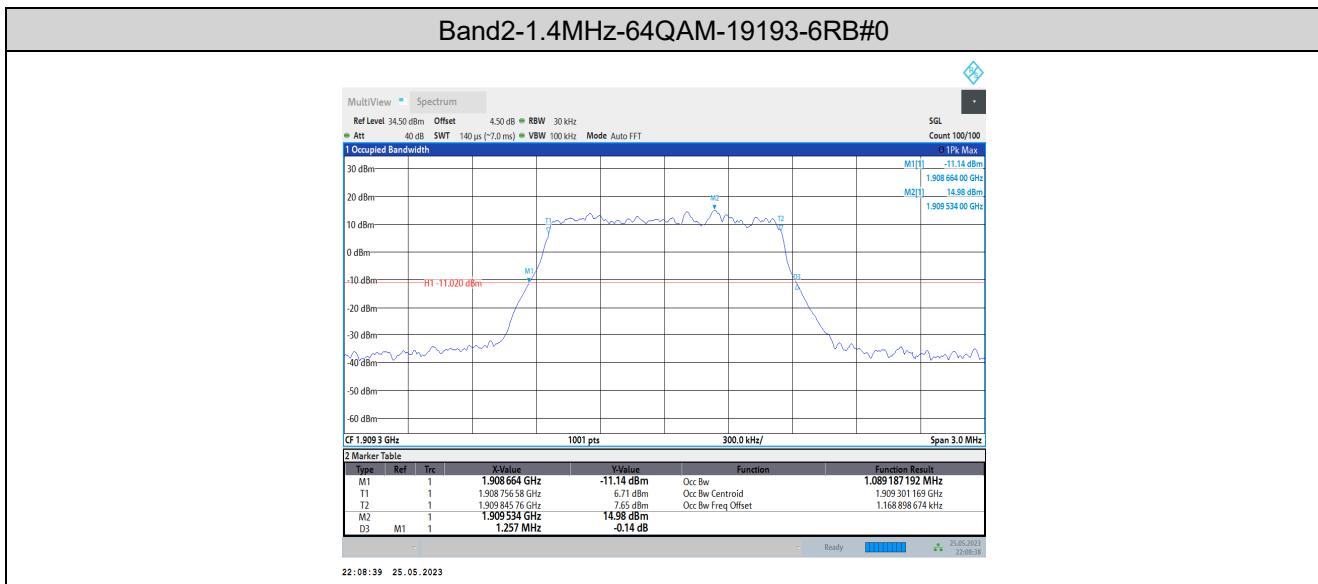


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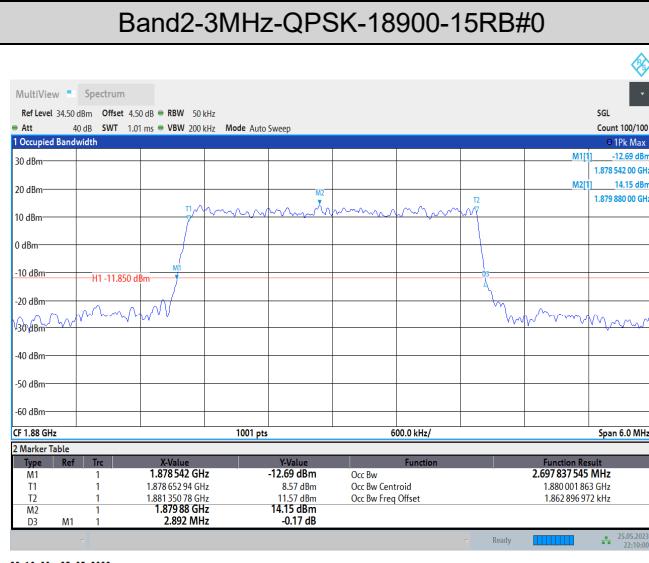
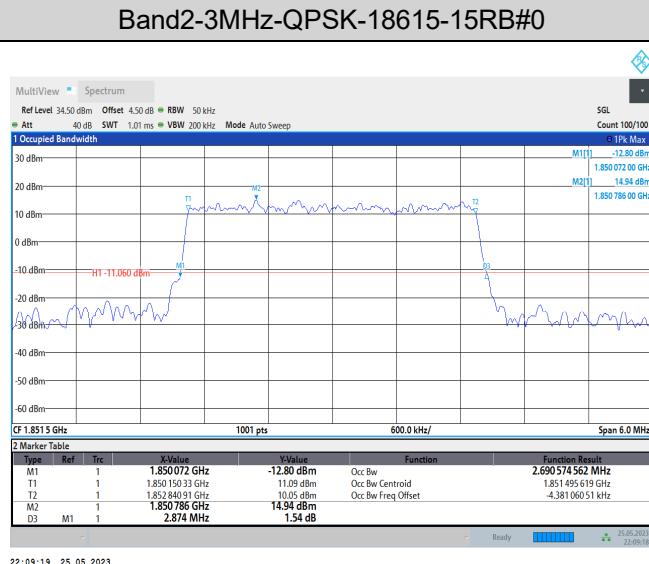
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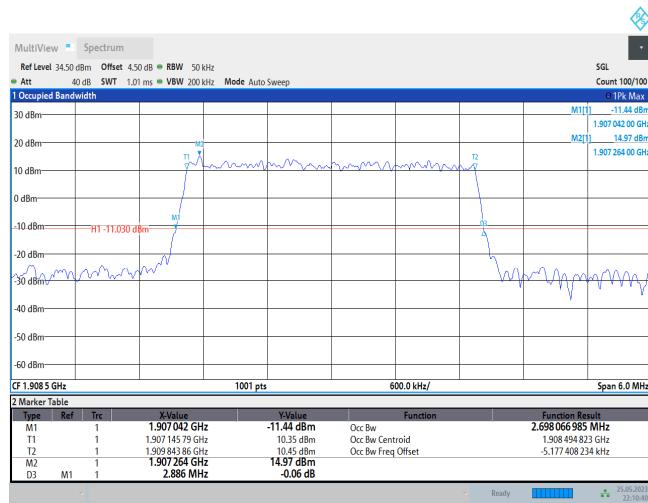
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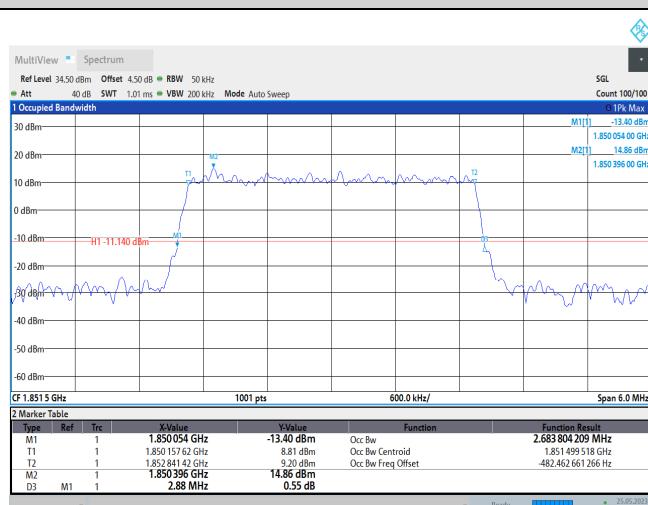


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## Band2-3MHz-QPSK-19185-15RB#0



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



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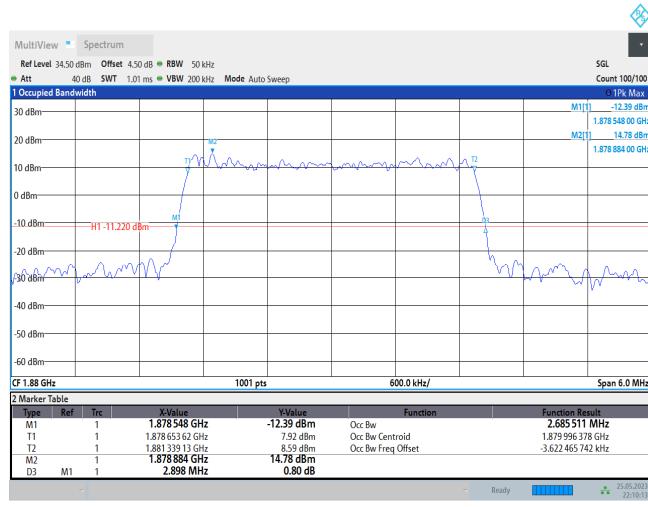
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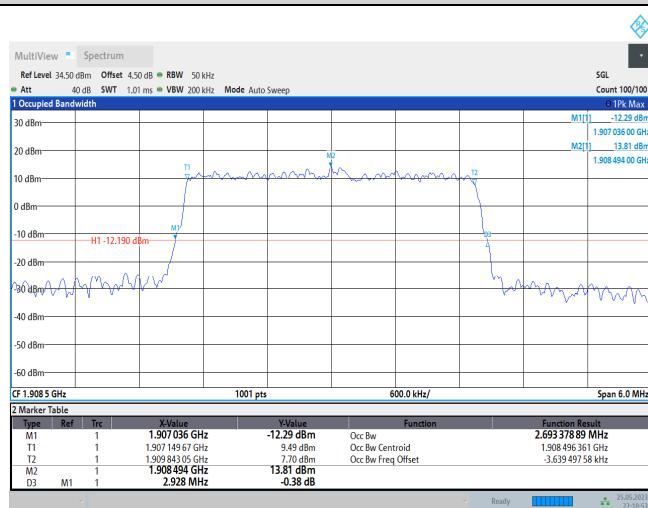
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## Band2-3MHz-16QAM-18900-15RB#0



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



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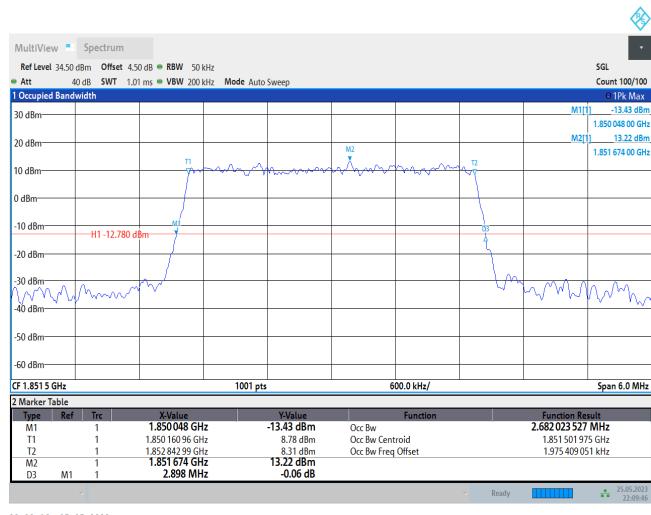


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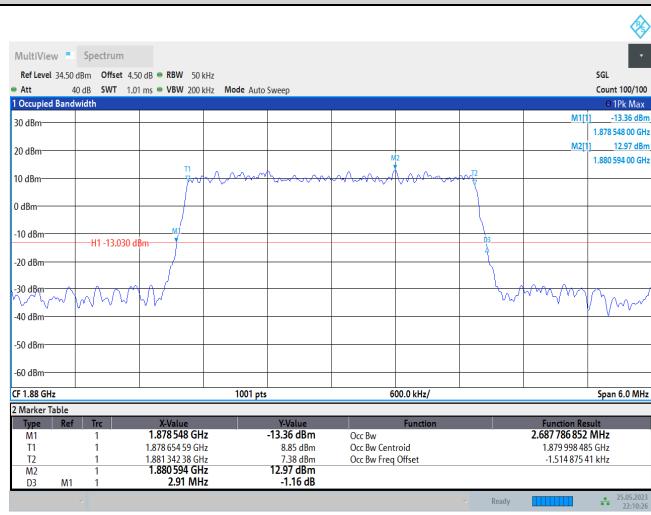
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Band2-3MHz-64QAM-18615-15RB#0



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

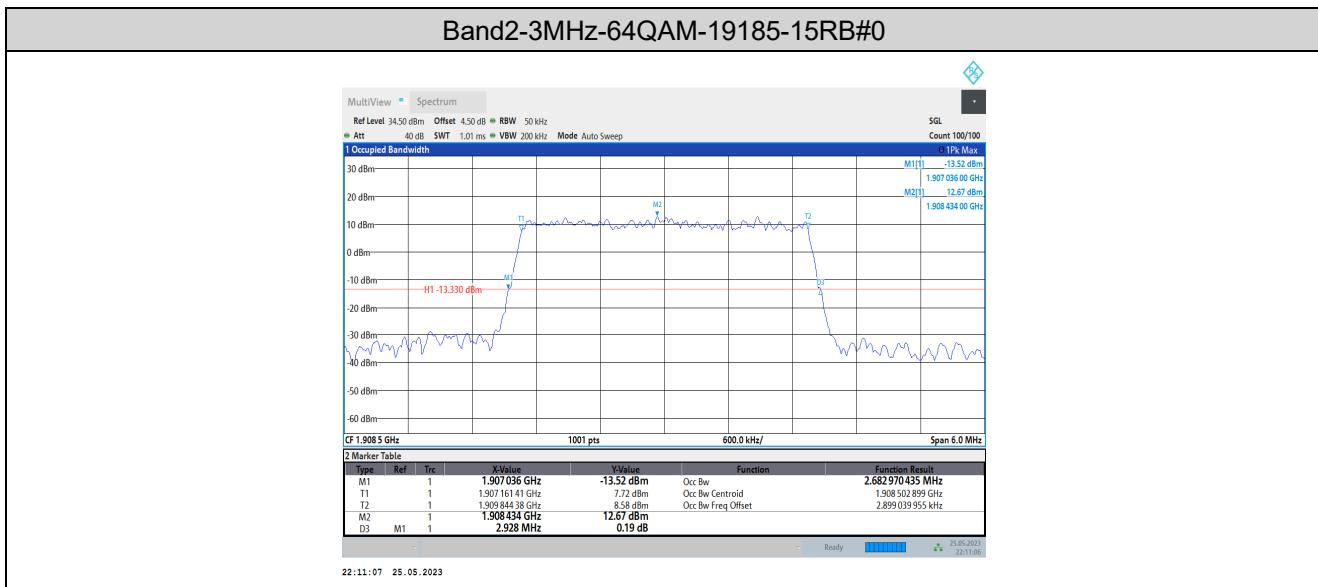


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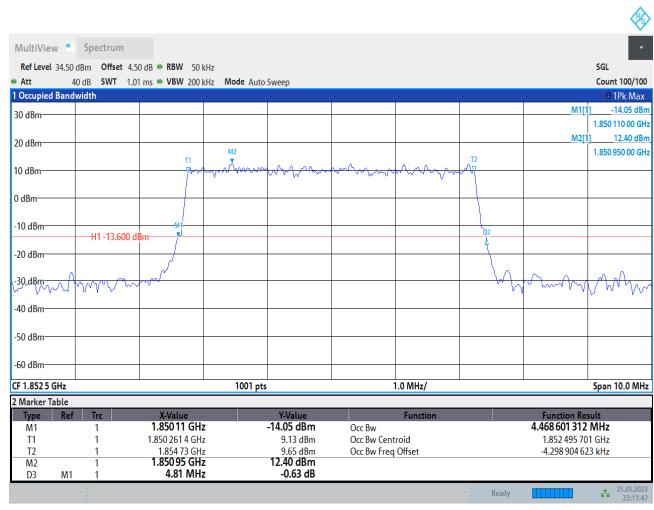
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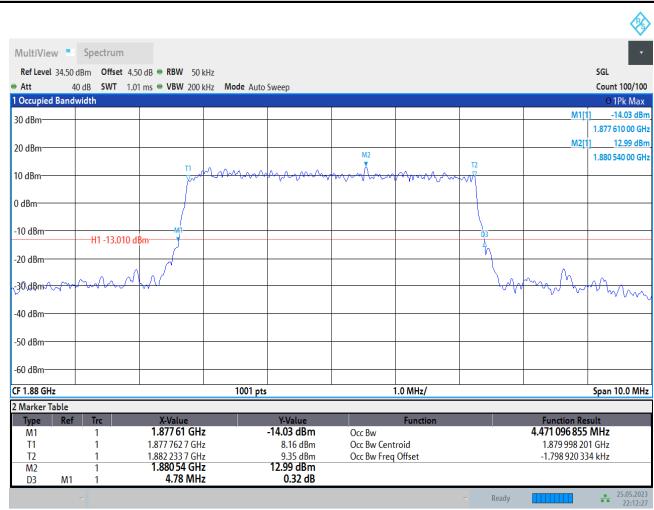
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## Band2-5MHz-QPSK-18625-25RB#0



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



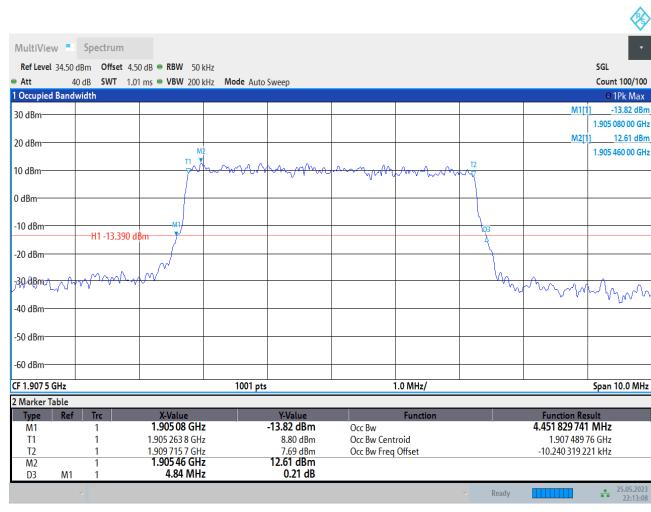
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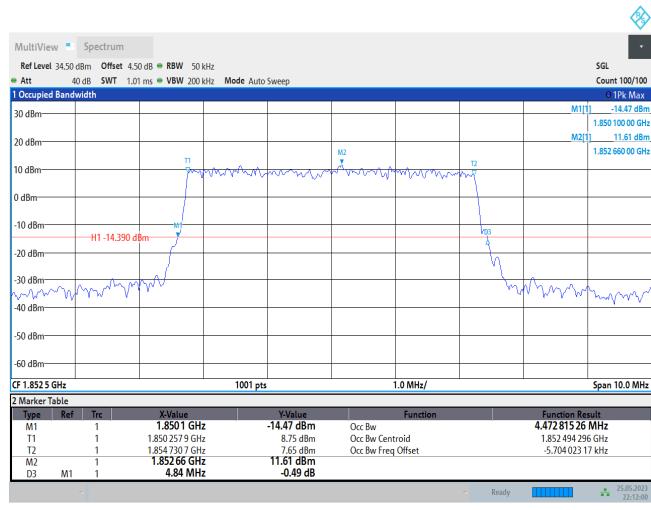
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## Band2-5MHz-QPSK-19175-25RB#0



22:13:09 25.05.2023

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



22:12:01 25.05.2023

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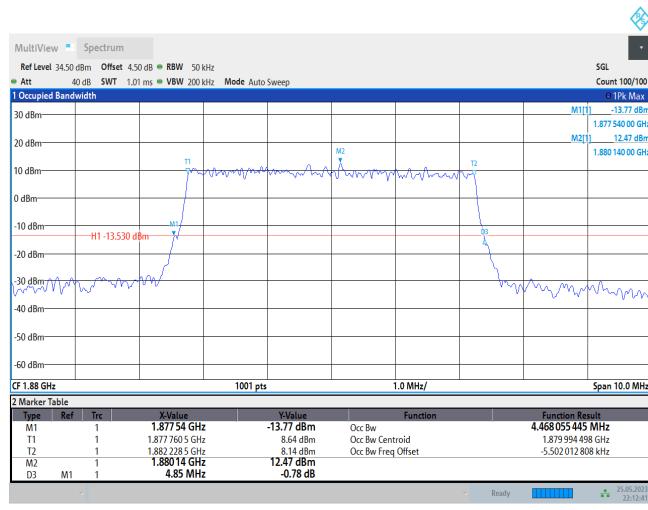


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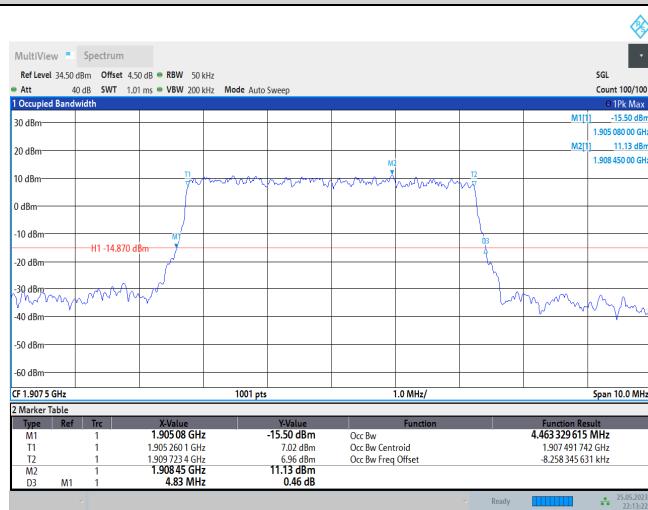
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## Band2-5MHz-64QAM-18625-25RB#0



22:12:14 25.05.2023

## Band2-5MHz-64QAM-18900-25RB#0



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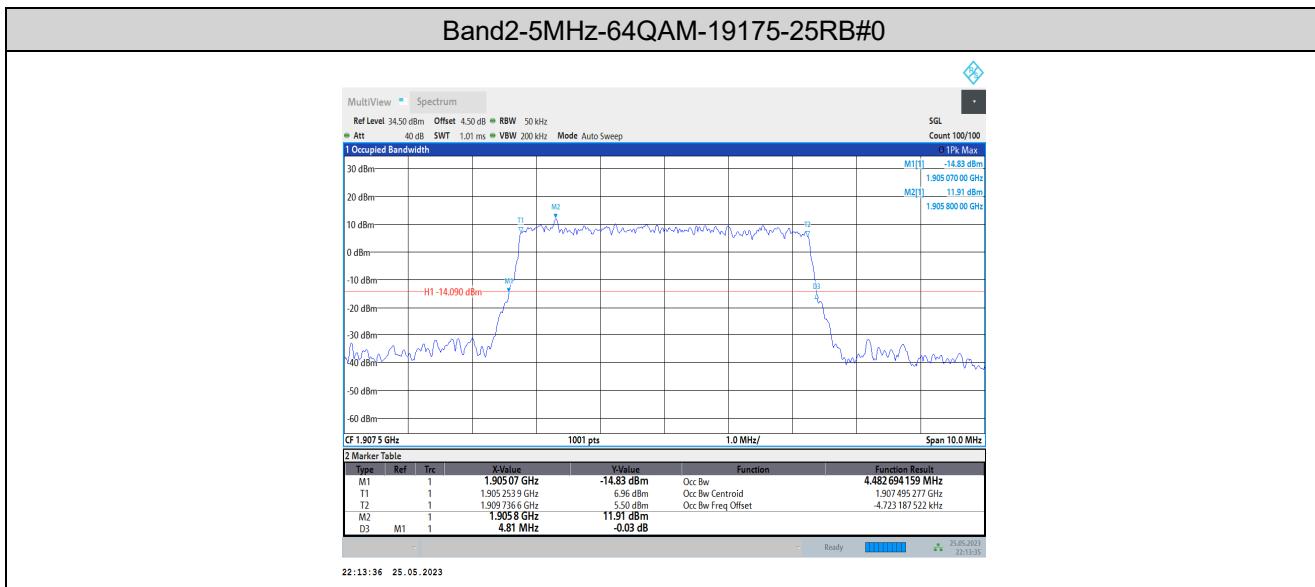


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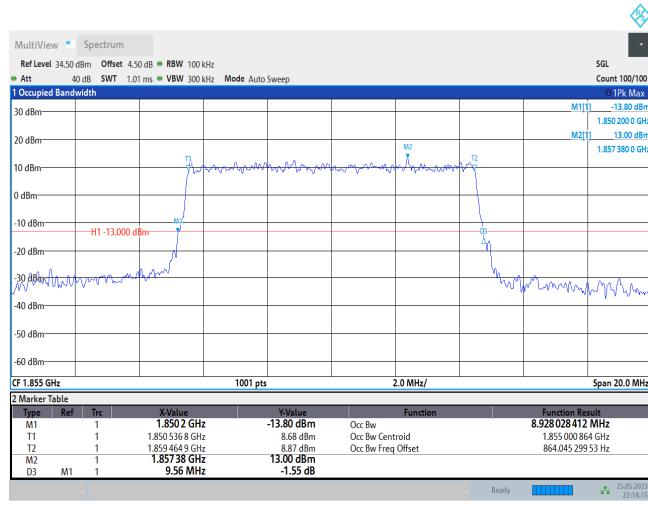
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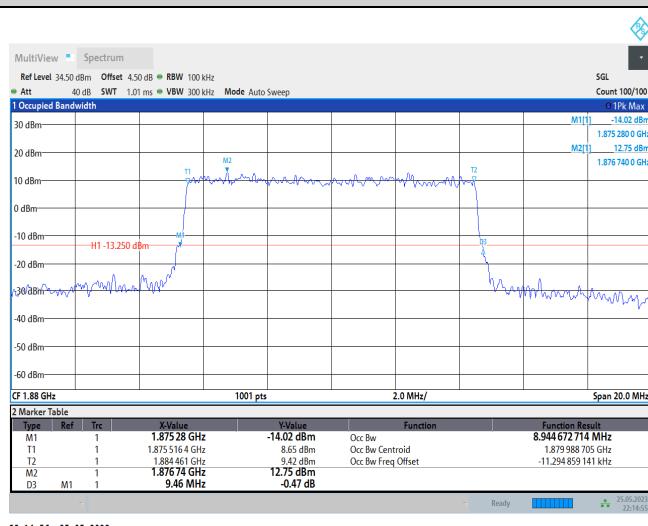
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## Band2-10MHz-QPSK-18650-50RB#0



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



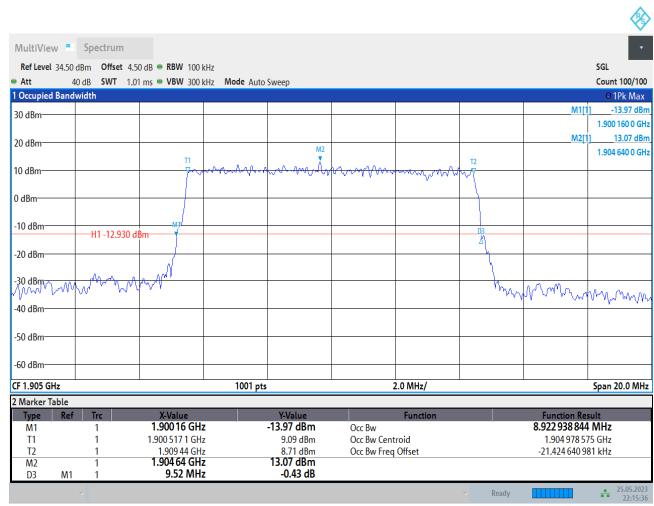
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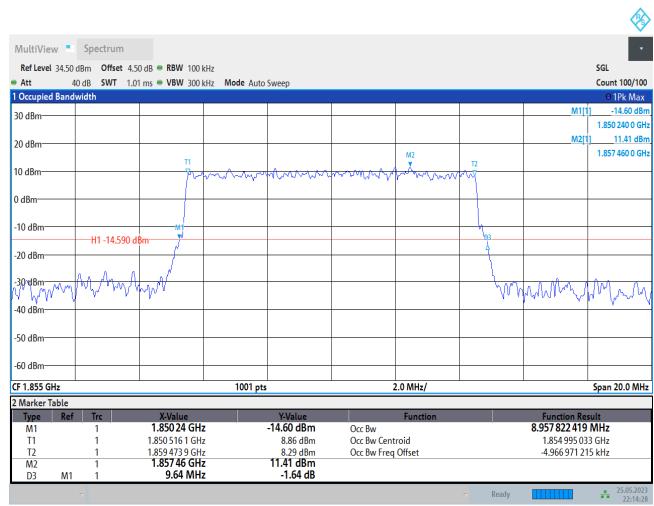
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## Band2-10MHz-QPSK-19150-50RB#0



22:15:37 25.05.2023

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



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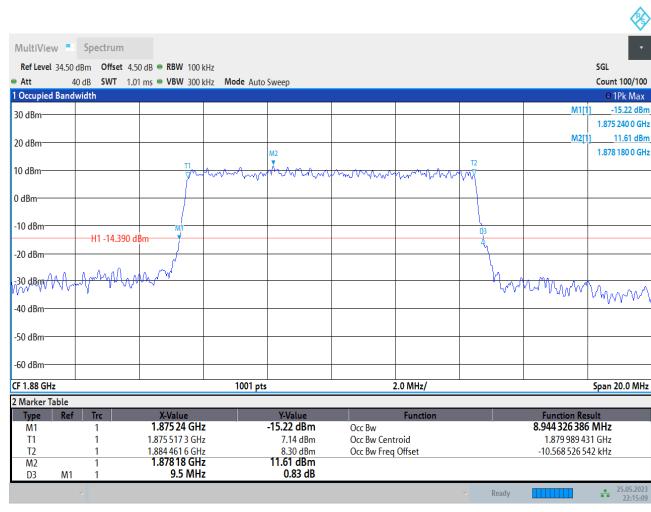
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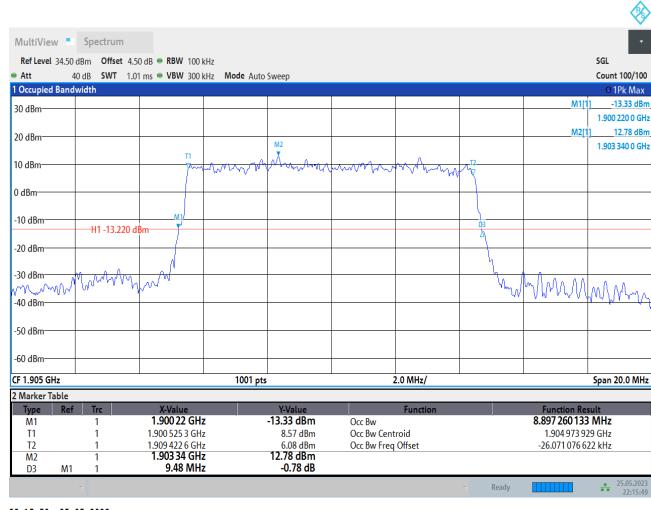
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## Band2-10MHz-16QAM-18900-50RB#0



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



22:14:43 25.05.2023

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



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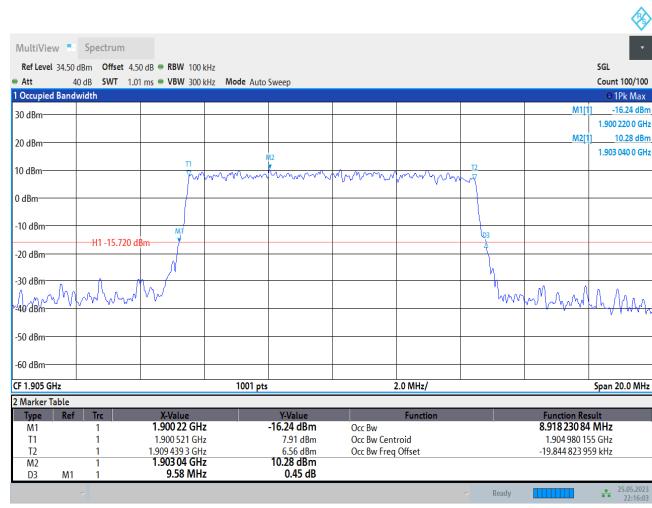
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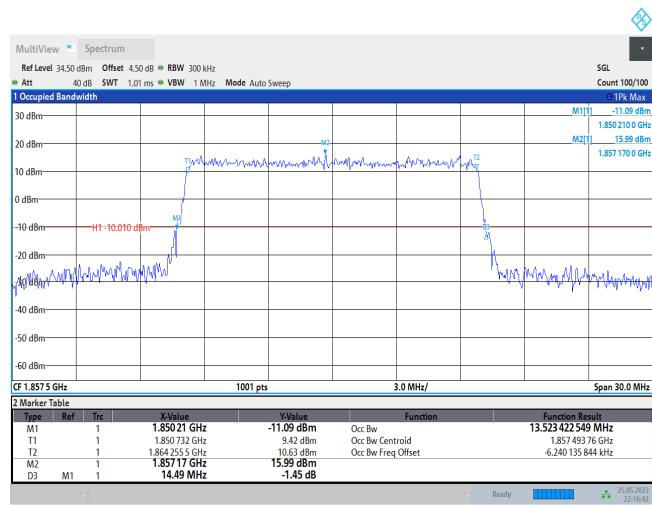
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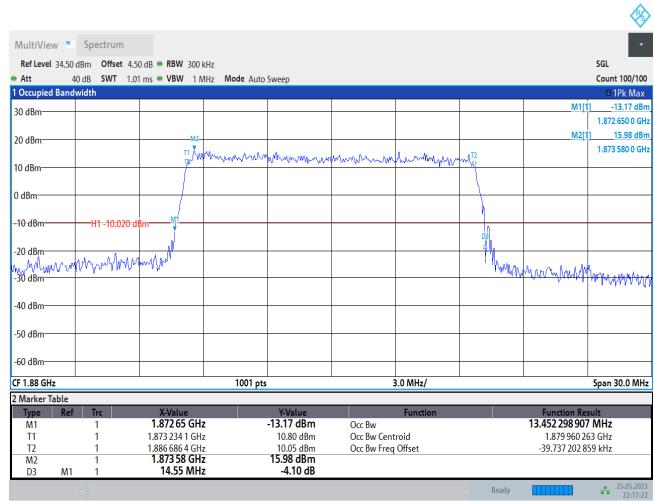


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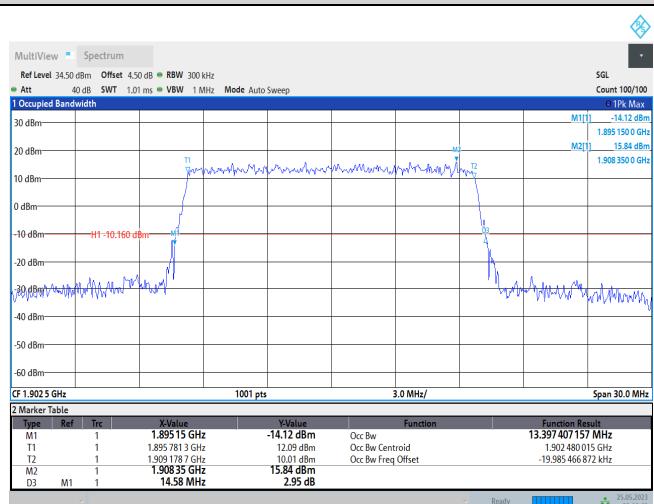
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Band2-15MHz-QPSK-18900-75RB#0



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



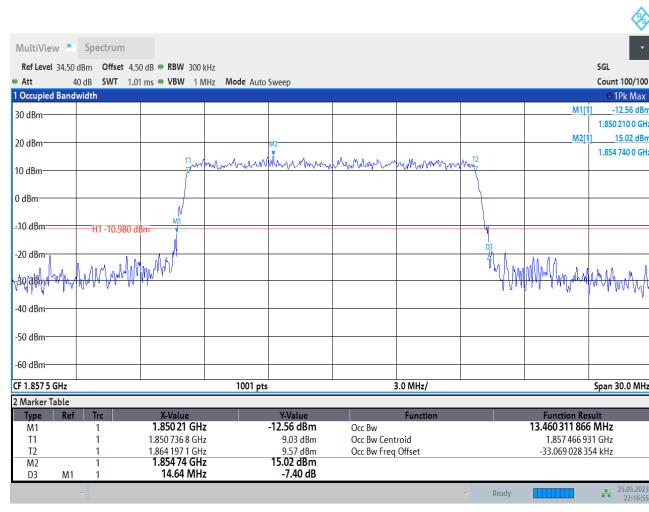
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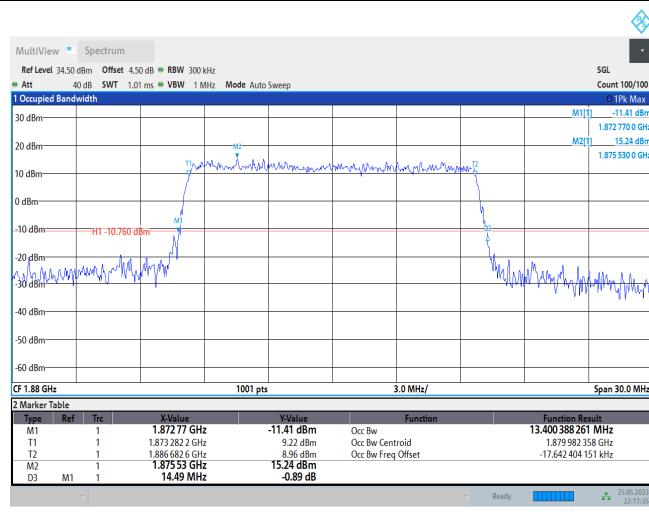


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## Band2-15MHz-16QAM-18675-75RB#0



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



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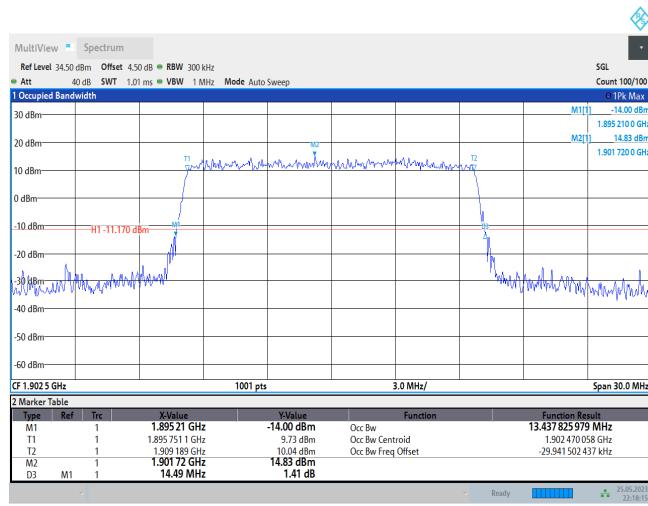
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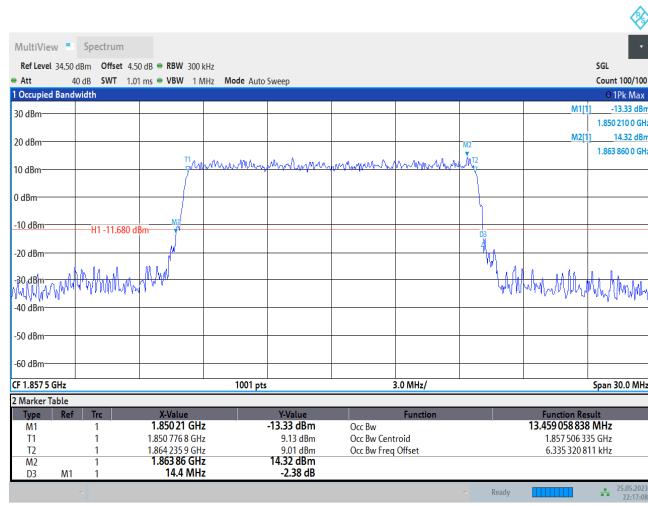
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 Rev.: 01  
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## Band2-15MHz-16QAM-19125-75RB#0



22:18:16 25.05.2023

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



22:17:09 25.05.2023

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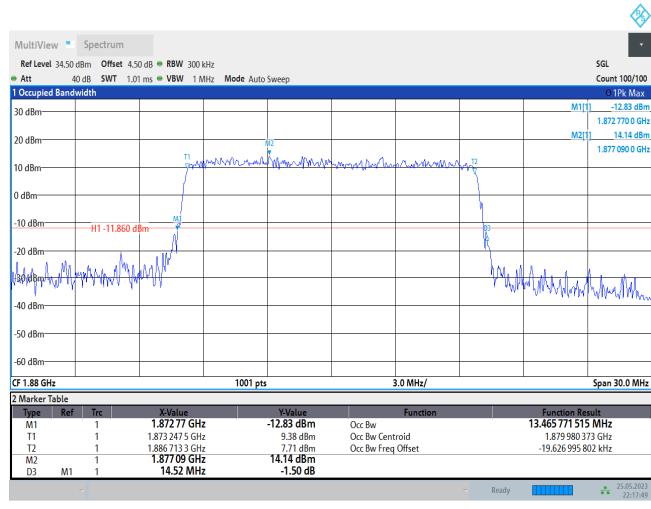


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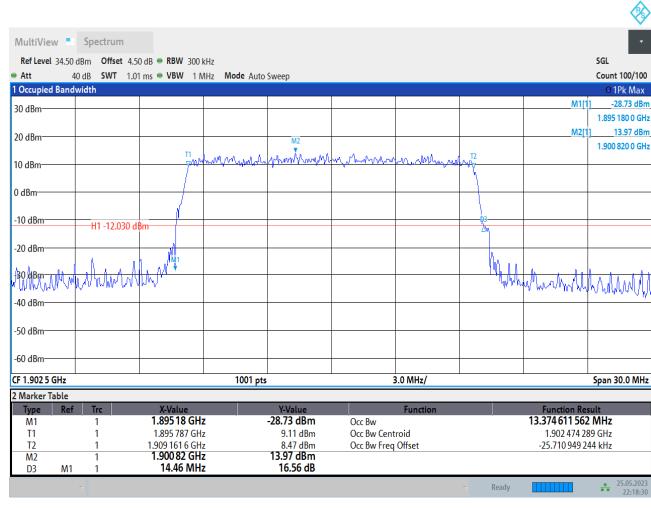
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## Band2-15MHz-64QAM-18900-75RB#0



22:17:49 25.05.2023

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



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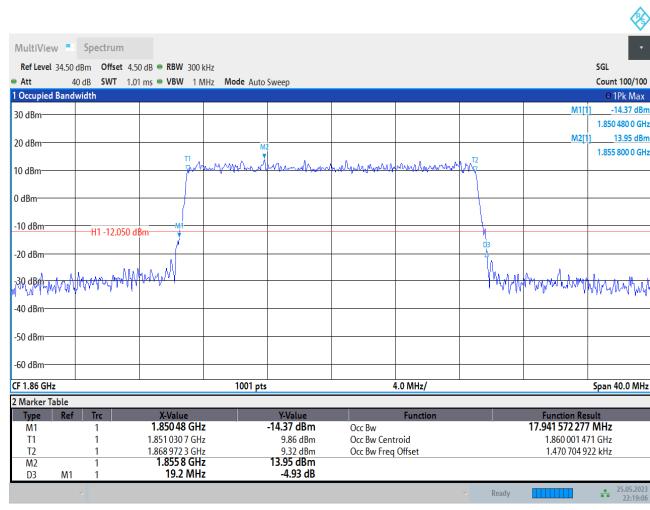


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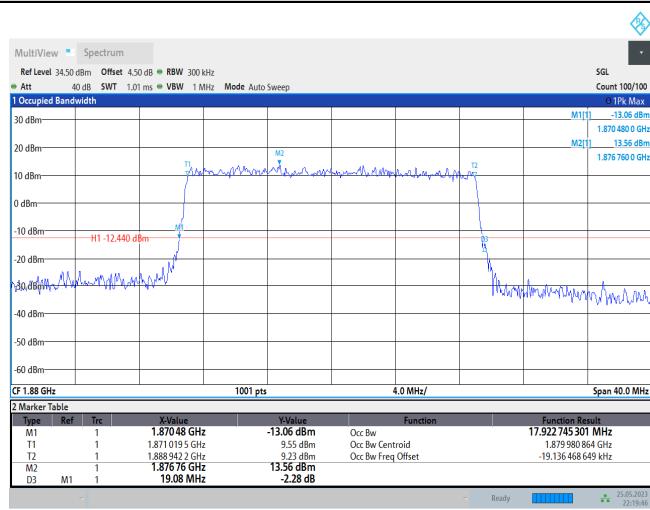
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Band2-20MHz-QPSK-18700-100RB#0



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

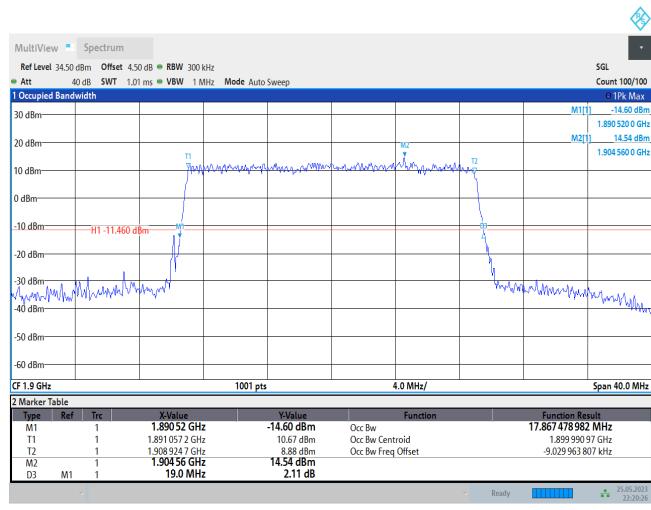


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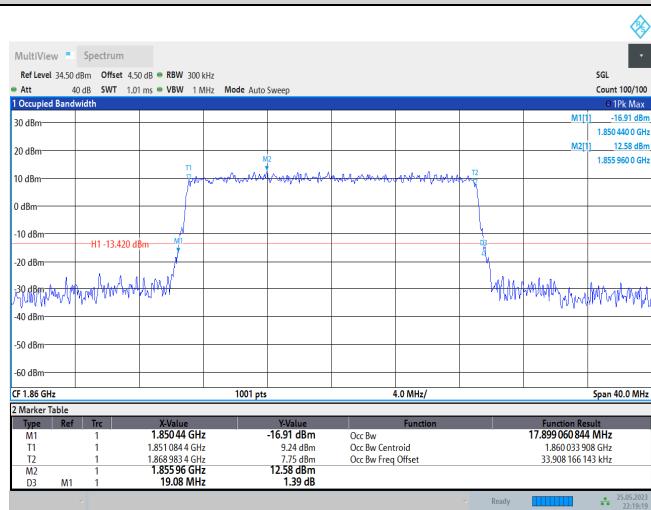
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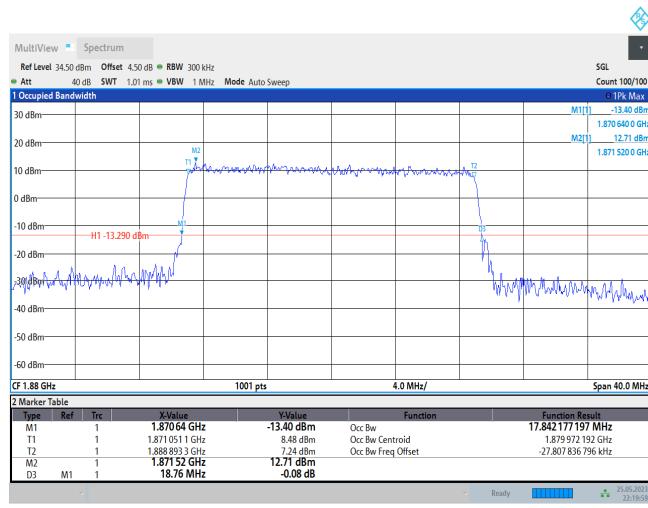


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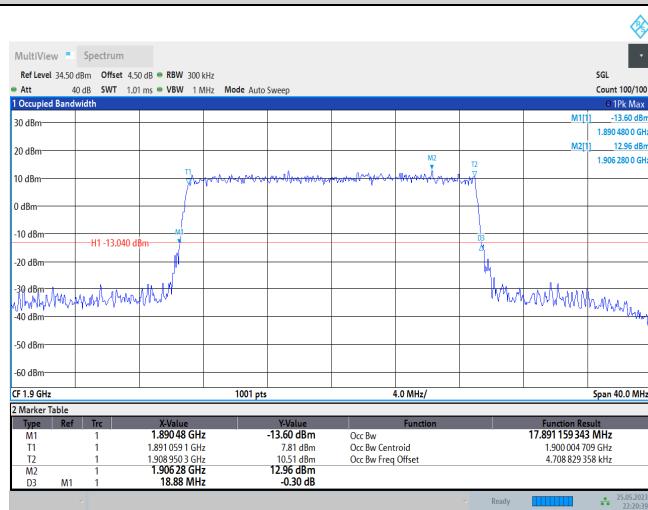
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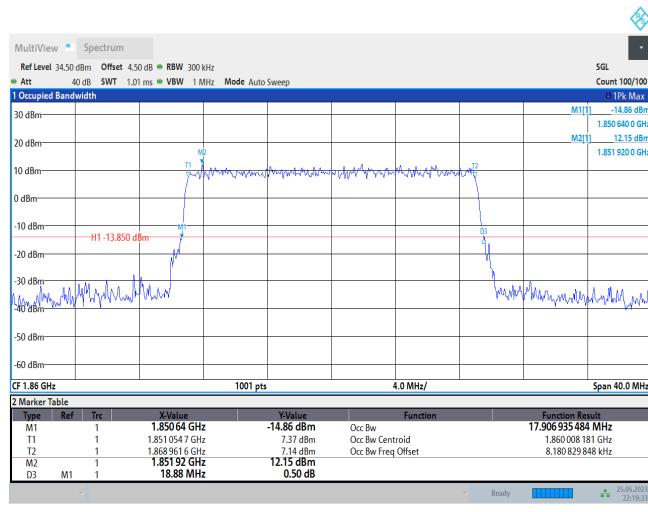


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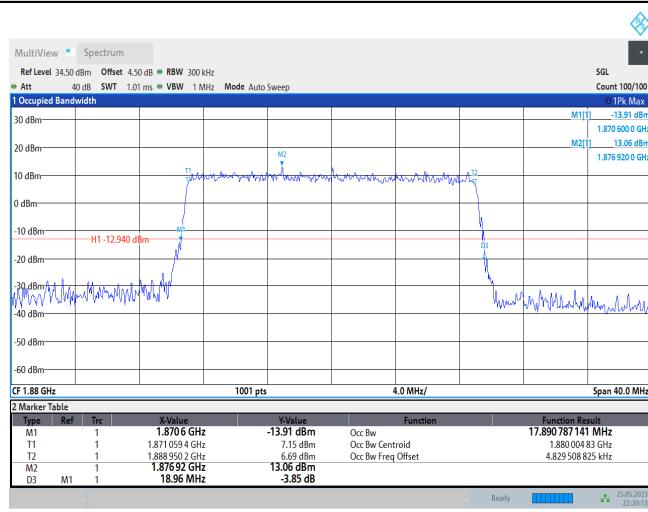
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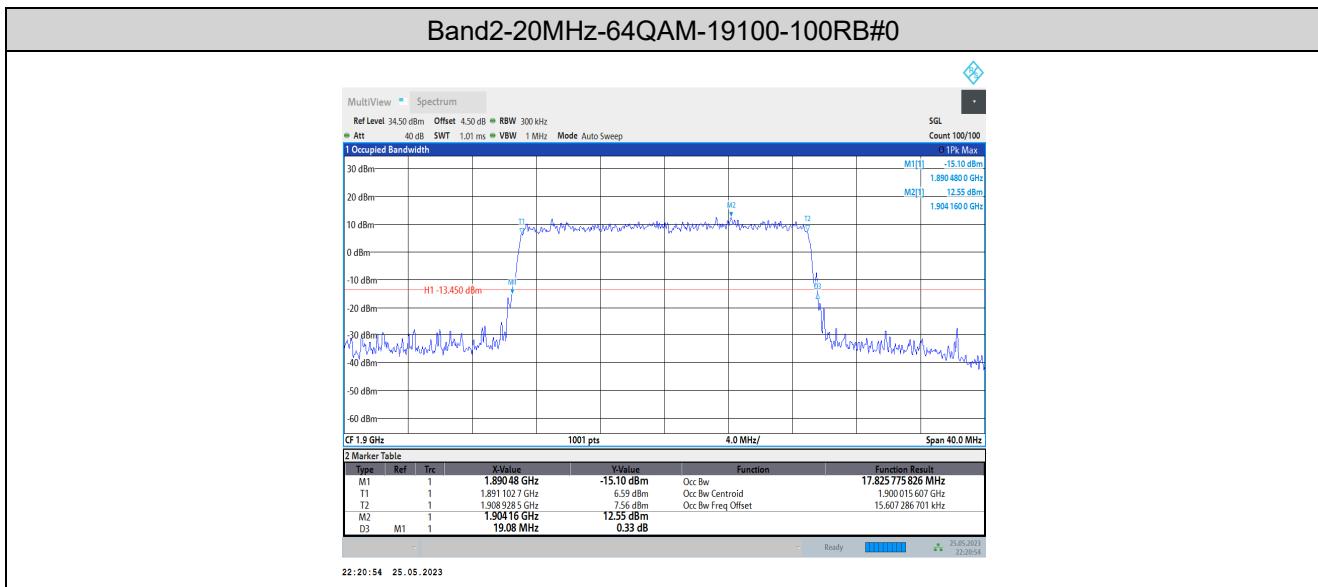


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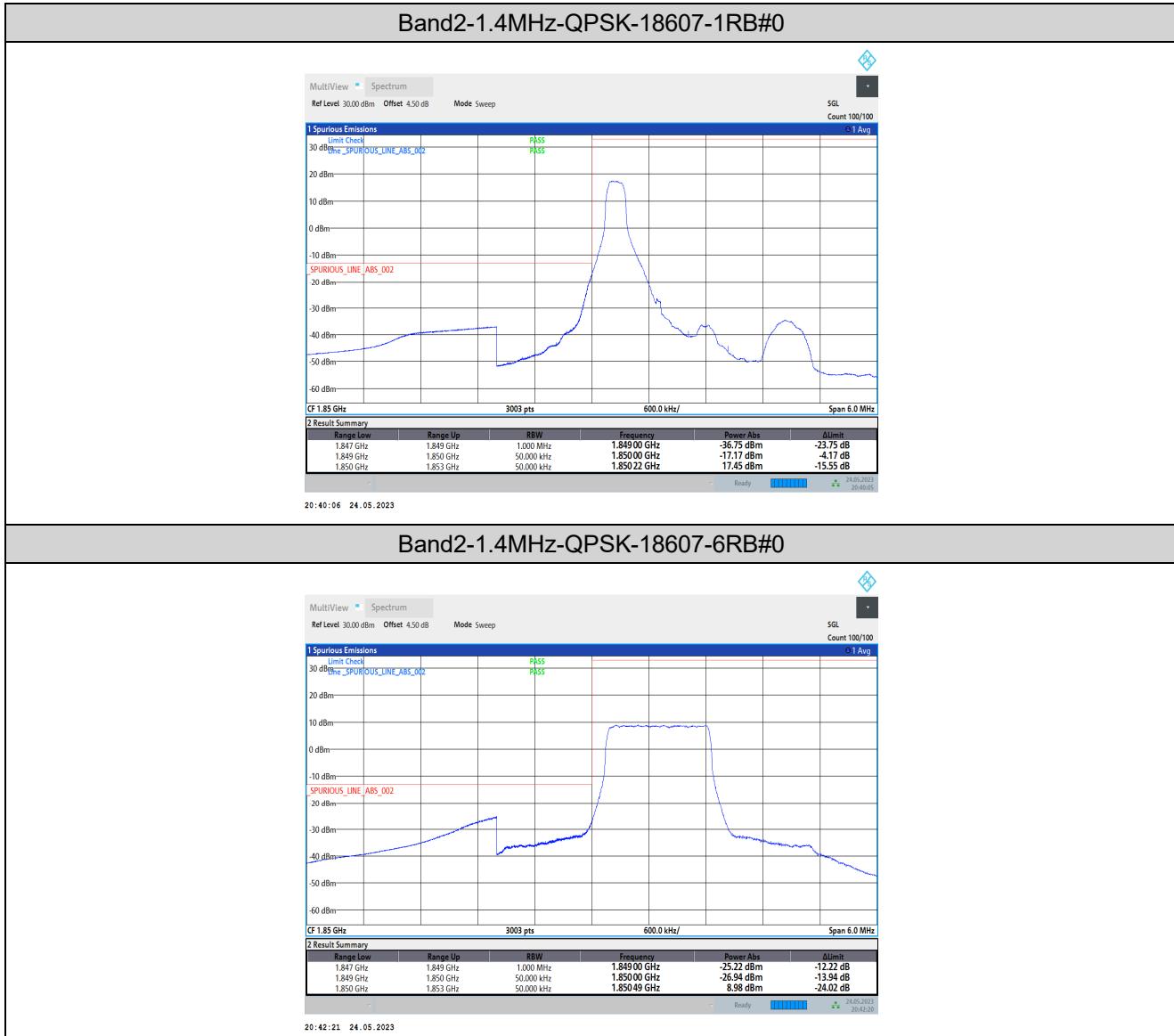


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# Band Edge

## Test Graphs



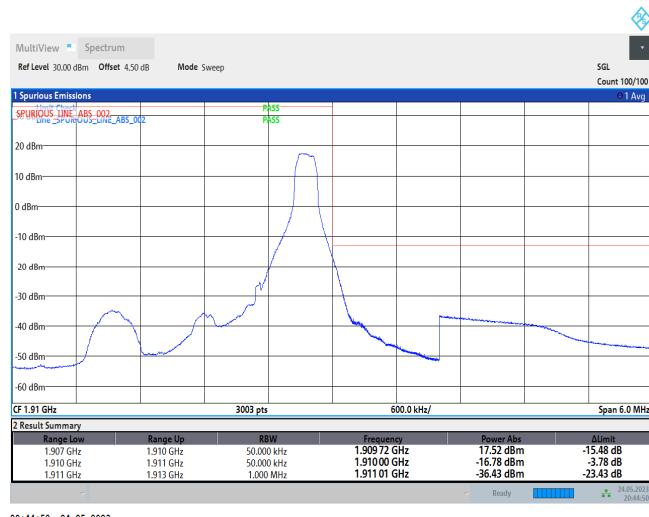
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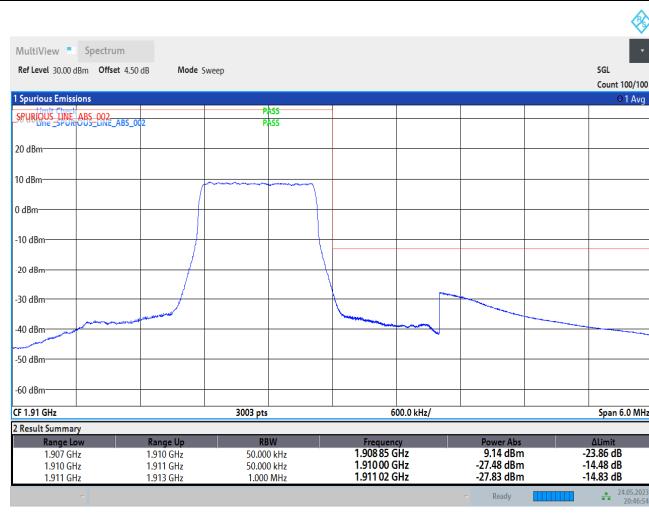


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## Band2-1.4MHz-QPSK-19193-1RB#5



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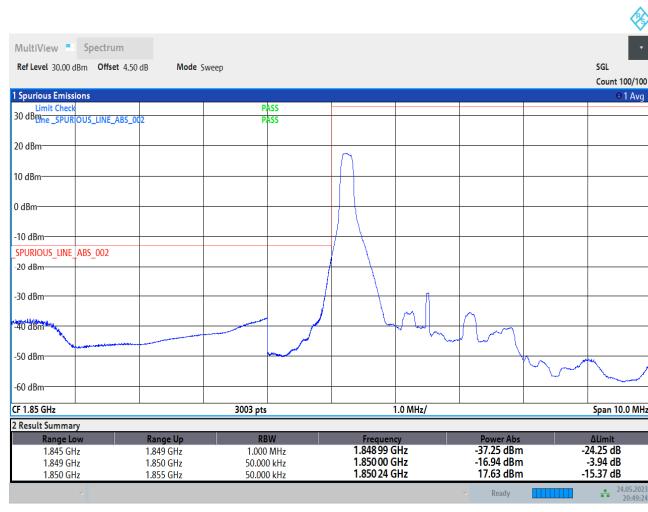
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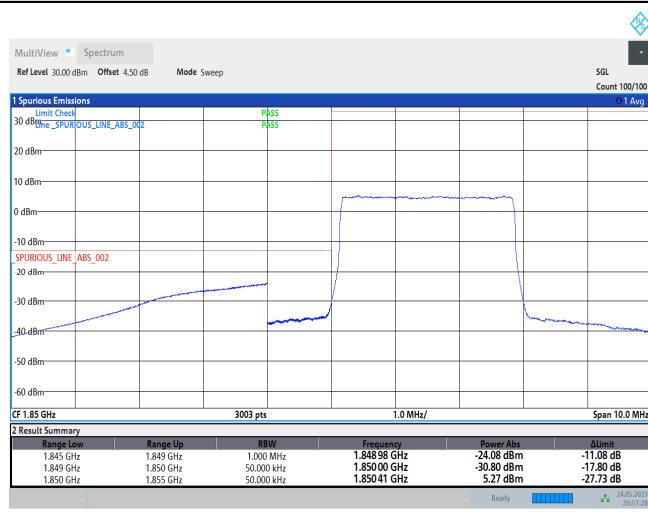
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Band2-3MHz-QPSK-18615-15RB#0

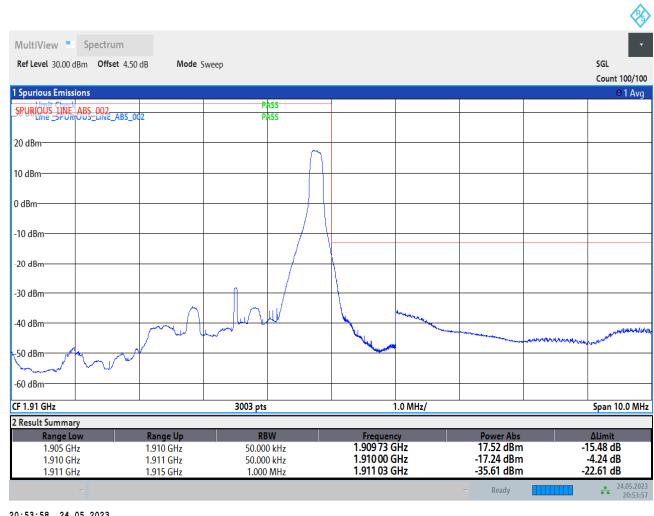


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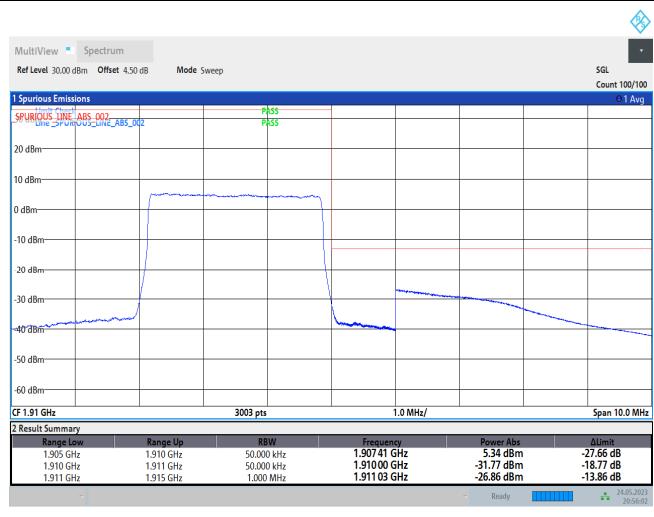
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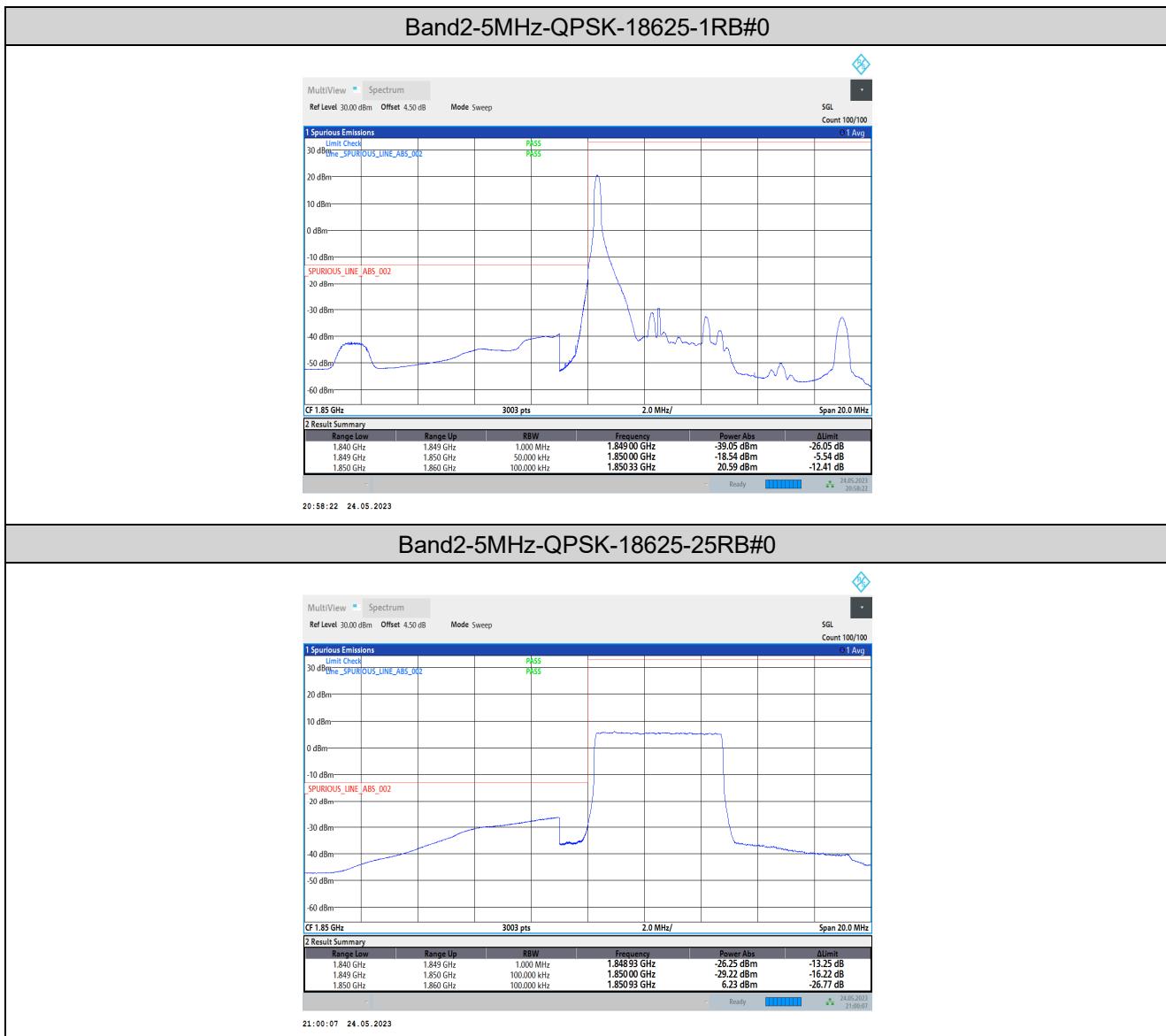


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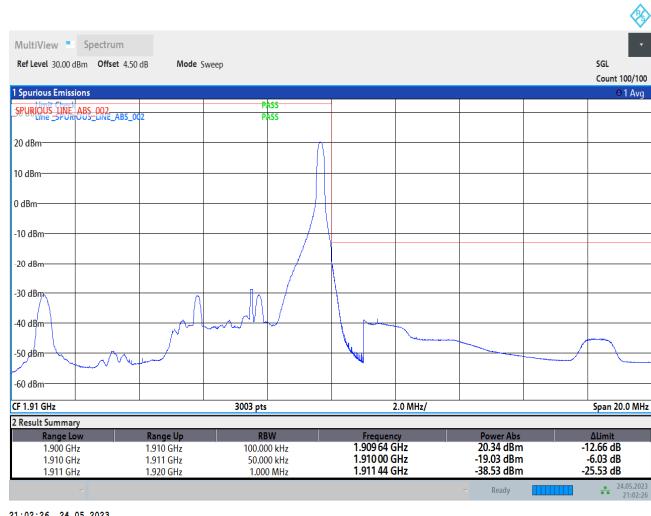
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Band2-5MHz-QPSK-19175-1RB#24



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



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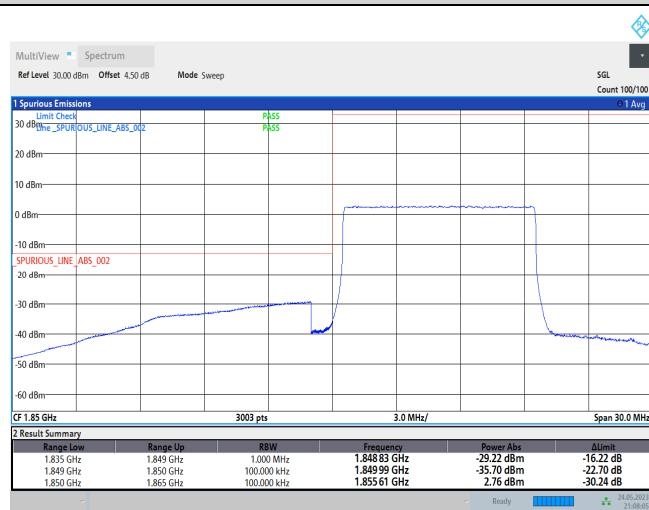
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## Band2-10MHz-QPSK-18650-1RB#0



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



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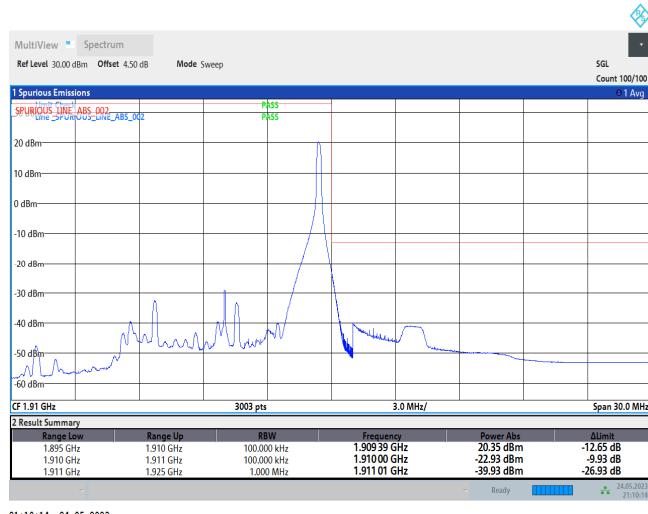
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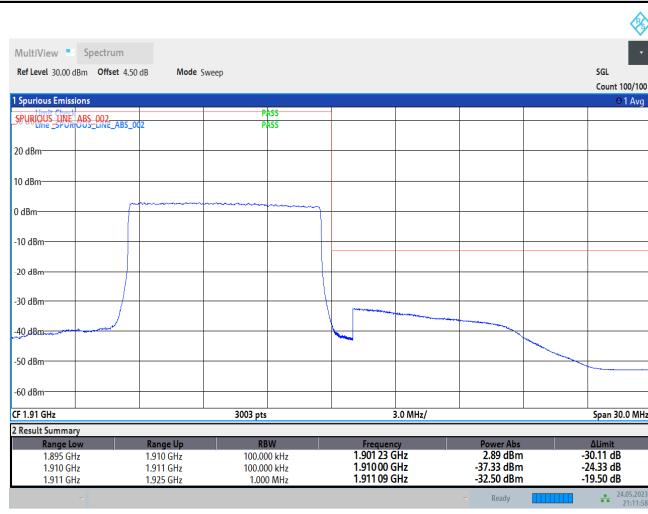
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## Band2-10MHz-QPSK-19150-1RB#49



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



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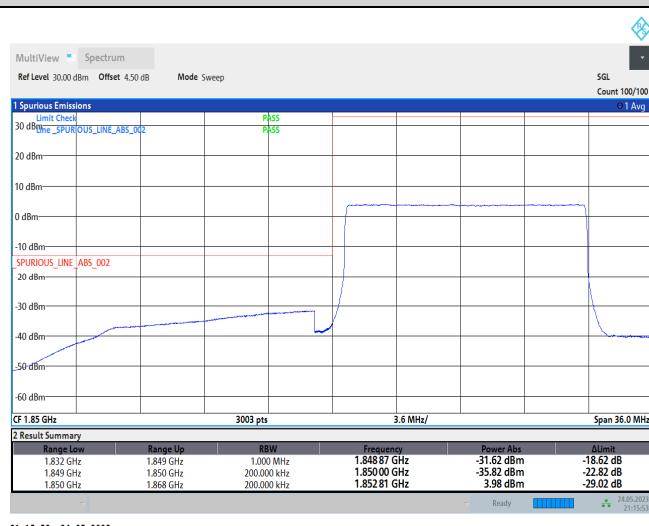
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## Band2-15MHz-QPSK-18675-1RB#0



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



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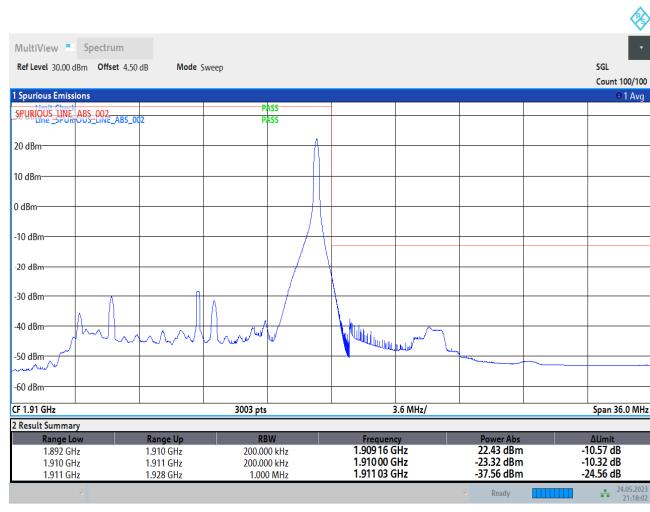
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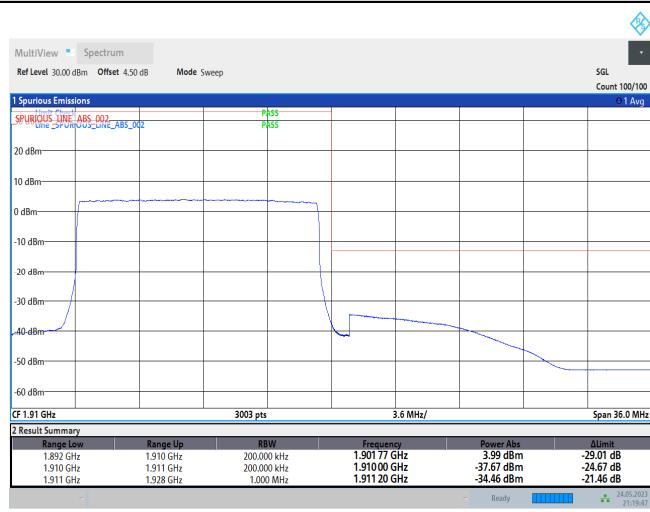
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## Band2-15MHz-QPSK-19125-1RB#74



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



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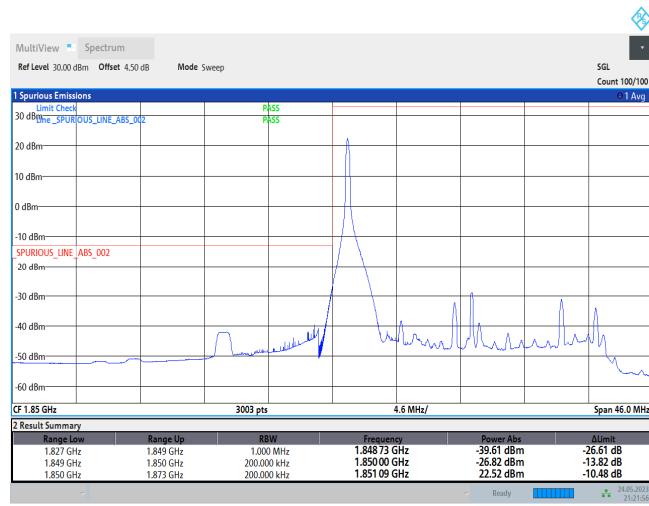
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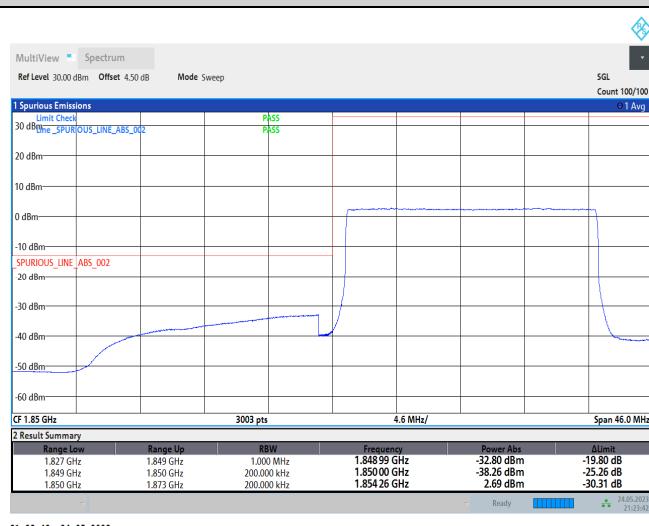
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## Band2-20MHz-QPSK-18700-1RB#0



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



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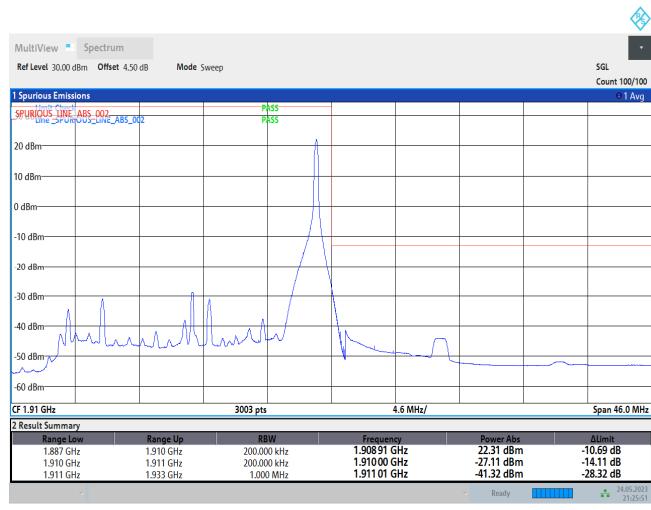


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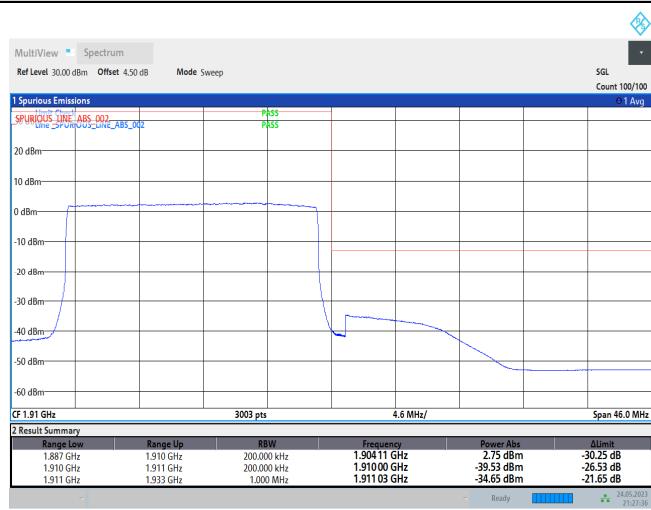
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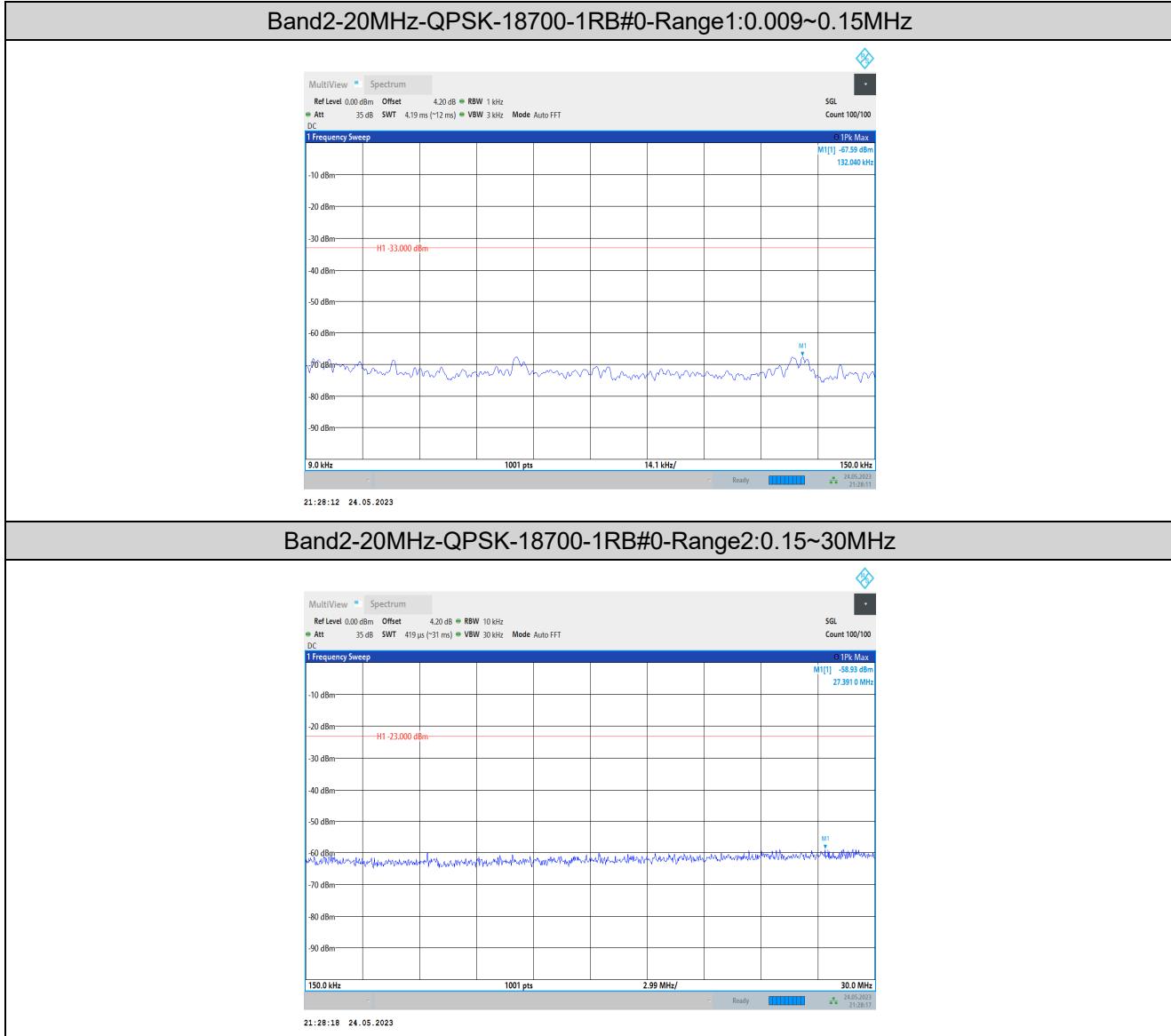
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## Conducted Spurious Emission

## Test Graphs

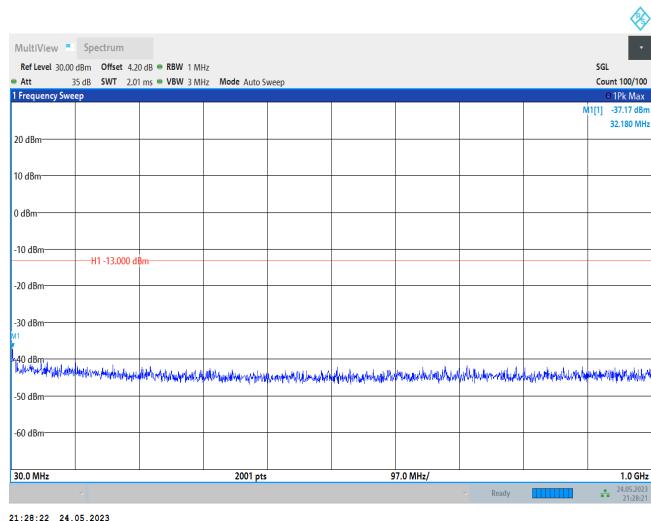


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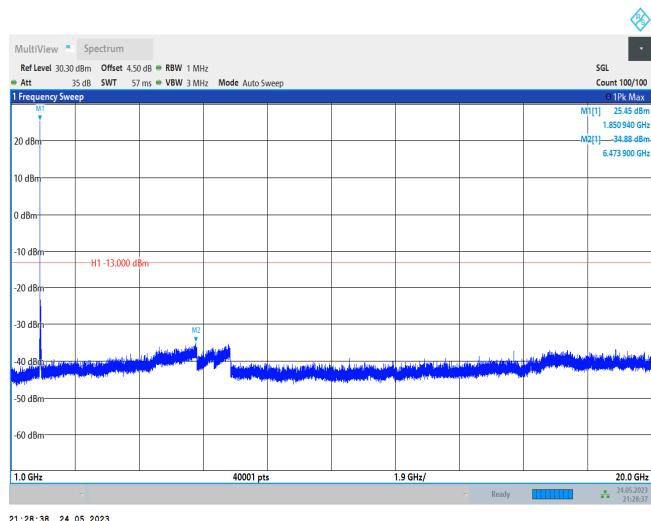
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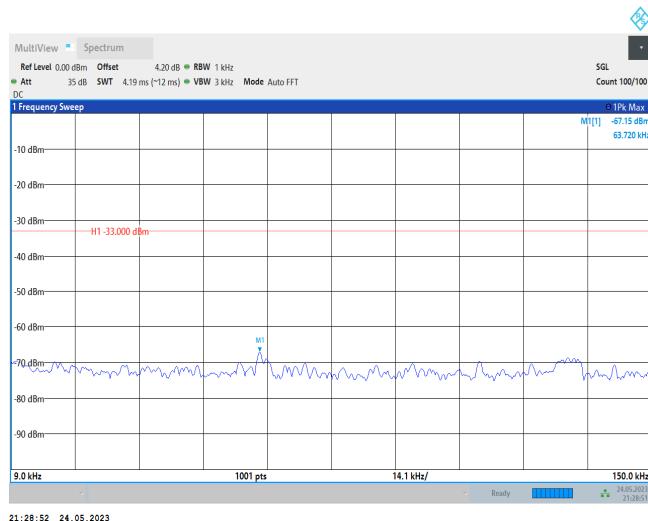
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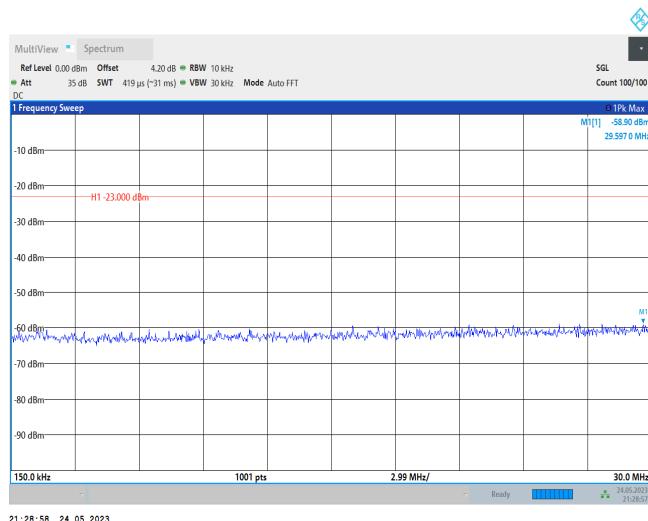


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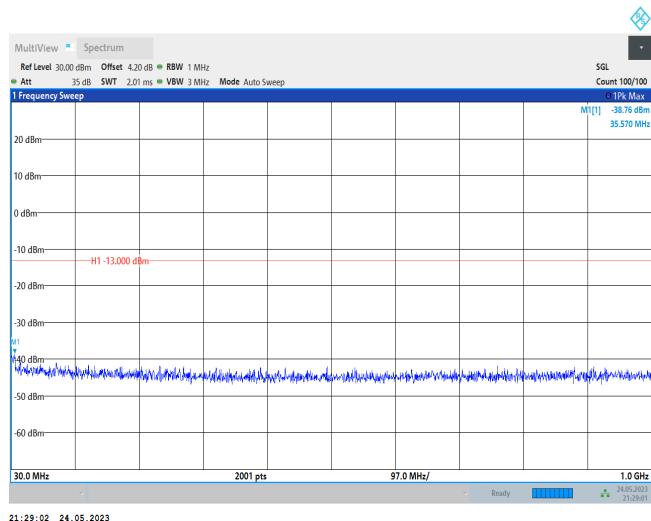
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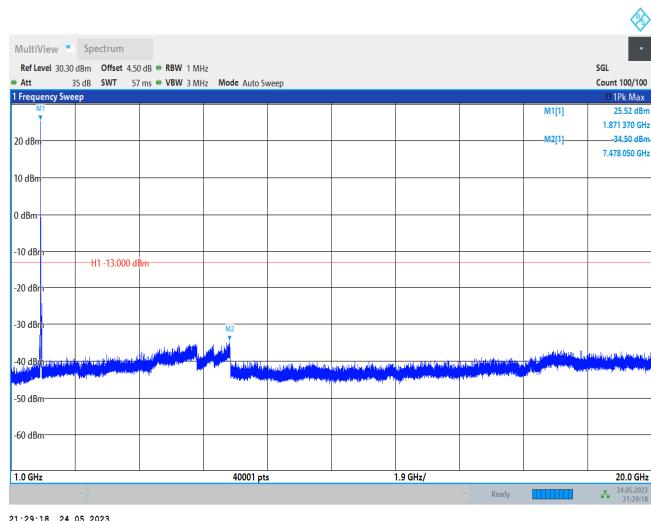
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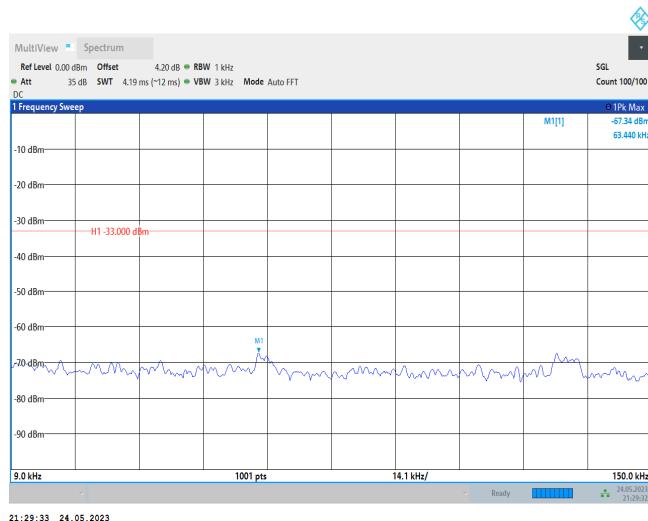
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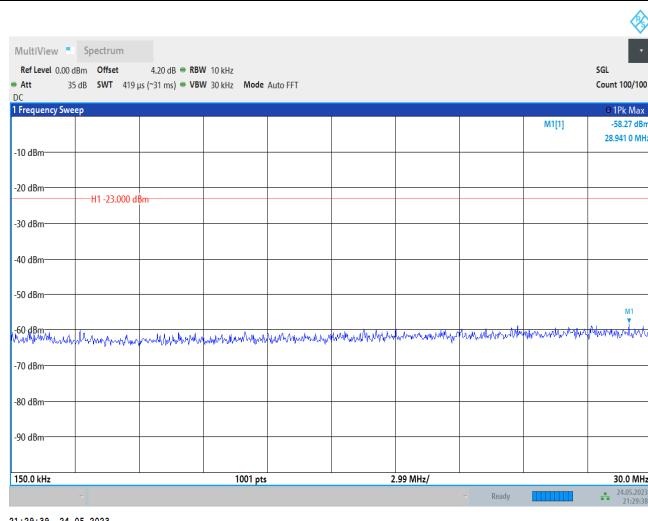


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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



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



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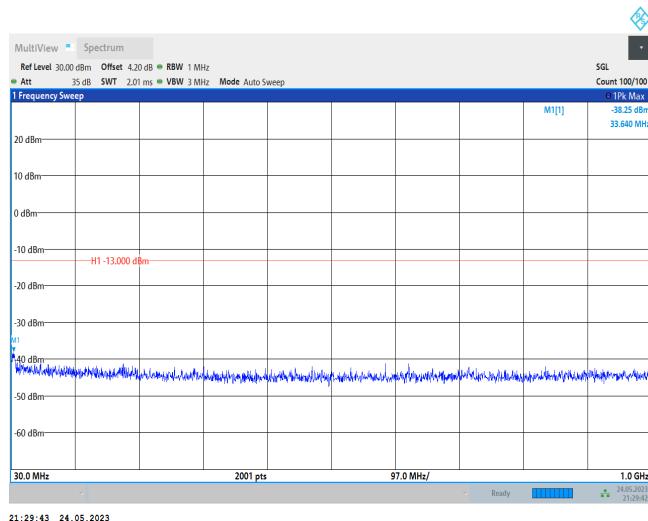
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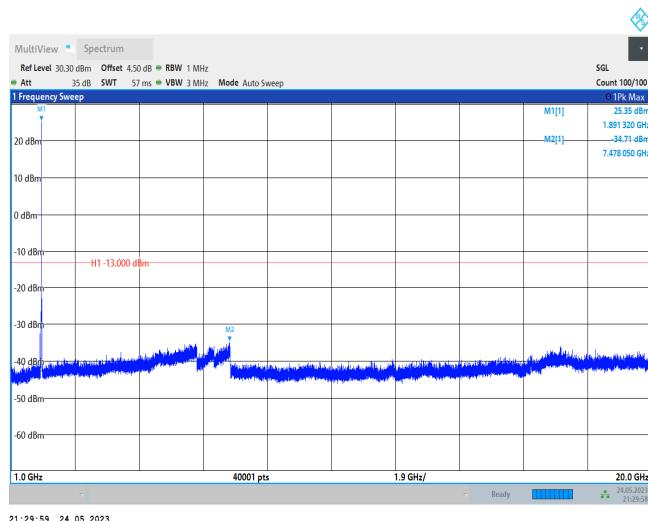
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band 2\_ TM1\_ Ant13

Test Channel = Low Channel\_20MHz

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	41.75	-45.69	29.89	-69.32	-13.00	56.32	248	0	Horizontal
2	5553.27	40.65	-43.87	32.77	-65.71	-13.00	52.71	159	8	Horizontal
3	7404.36	38.05	-41.96	36.44	-62.73	-13.00	49.73	263	163	Horizontal
4	9255.45	33.39	-38.39	38.57	-61.69	-13.00	48.69	198	32	Horizontal
5	11106.54	31.84	-35.35	39.49	-59.28	-13.00	46.28	288	279	Horizontal
6	12957.63	33.18	-34.89	39.56	-57.42	-13.00	44.42	145	146	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	41.85	-45.69	29.89	-69.22	-13.00	56.22	124	312	Vertical
2	5553.27	41.23	-43.87	32.77	-65.13	-13.00	52.13	174	211	Vertical
3	7404.36	38.23	-41.96	36.44	-62.55	-13.00	49.55	218	6	Vertical
4	9255.45	33.71	-38.39	38.57	-61.37	-13.00	48.37	163	344	Vertical
5	11106.54	32.04	-35.35	39.49	-59.08	-13.00	46.08	203	76	Vertical
6	12957.63	33.80	-34.89	39.56	-56.80	-13.00	43.80	244	312	Vertical



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**Test Band = LTE Band 2\_ TM1\_ Ant13**

**Test Channel = Mid Channel \_20MHz**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	41.62	-45.59	29.98	-69.24	-13.00	56.24	214	0	Horizontal
2	5613.27	40.48	-43.84	32.96	-65.66	-13.00	52.66	296	0	Horizontal
3	7484.36	39.28	-41.66	36.49	-61.15	-13.00	48.15	284	30	Horizontal
4	9355.45	34.49	-38.26	38.56	-60.47	-13.00	47.47	293	30	Horizontal
5	11226.54	31.78	-35.07	39.37	-59.17	-13.00	46.17	186	0	Horizontal
6	13097.63	32.00	-34.47	39.66	-58.07	-13.00	45.07	233	0	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	41.58	-45.59	29.98	-69.28	-13.00	56.28	196	212	Vertical
2	5613.27	40.44	-43.84	32.96	-65.70	-13.00	52.70	237	113	Vertical
3	7484.36	38.77	-41.66	36.49	-61.66	-13.00	48.66	142	0	Vertical
4	9355.45	34.27	-38.26	38.56	-60.69	-13.00	47.69	287	294	Vertical
5	11226.54	32.83	-35.07	39.37	-58.12	-13.00	45.12	165	113	Vertical
6	13097.63	31.98	-34.47	39.66	-58.09	-13.00	45.09	209	113	Vertical



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**Test Band = LTE Band 2\_ TM1\_ Ant13**  
**Test Channel = High Channel \_20MHz**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	41.73	-45.48	30.08	-68.93	-13.00	55.93	214	196	Horizontal
2	5673.27	40.97	-43.77	33.16	-64.91	-13.00	51.91	182	278	Horizontal
3	7564.36	36.76	-41.38	36.63	-63.25	-13.00	50.25	298	31	Horizontal
4	9455.45	35.82	-38.15	38.55	-59.04	-13.00	46.04	165	196	Horizontal
5	11346.54	31.80	-35.43	39.25	-59.64	-13.00	46.64	208	0	Horizontal
6	13237.63	32.04	-34.98	39.74	-58.45	-13.00	45.45	172	6	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	41.99	-45.48	30.08	-68.67	-13.00	55.67	298	227	Vertical
2	5673.27	41.25	-43.77	33.16	-64.63	-13.00	51.63	263	277	Vertical
3	7564.36	36.96	-41.38	36.63	-63.05	-13.00	50.05	277	58	Vertical
4	9455.45	35.52	-38.15	38.55	-59.34	-13.00	46.34	145	357	Vertical
5	11346.54	31.27	-35.43	39.25	-60.17	-13.00	47.17	201	0	Vertical
6	13237.63	31.46	-34.98	39.74	-59.03	-13.00	46.03	168	0	Vertical



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**Test Band = LTE Band 2\_TM1\_Ant31**

**Test Channel = Low Channel \_20MHz**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702	49.74	-45.69	29.88	-61.33	-13.00	48.33	215	132	Horizontal
2	5553.27	41.43	-43.87	32.77	-64.93	-13.00	51.93	184	330	Horizontal
3	7404.36	38.55	-41.96	36.44	-62.23	-13.00	49.23	292	164	Horizontal
4	9255.45	34.33	-38.39	38.57	-60.75	-13.00	47.75	163	247	Horizontal
5	11106.54	32.09	-35.35	39.49	-59.03	-13.00	46.03	287	330	Horizontal
6	12957.63	33.90	-34.89	39.56	-56.70	-13.00	43.70	146	247	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	47.49	-45.69	29.89	-63.58	-13.00	50.58	195	117	Vertical
2	5553.27	41.16	-43.87	32.77	-65.20	-13.00	52.20	286	181	Vertical
3	7404.36	38.86	-41.96	36.44	-61.92	-13.00	48.92	147	181	Vertical
4	9255.45	34.88	-38.39	38.57	-60.20	-13.00	47.20	156	280	Vertical
5	11106.54	32.54	-35.35	39.49	-58.58	-13.00	45.58	240	133	Vertical
6	12957.63	33.48	-34.89	39.56	-57.12	-13.00	44.12	181	328	Vertical



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**Test Band = LTE Band 2\_TM1\_Ant31**

**Test Channel = Mid Channel\_20MHz**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3741.75	50.56	-45.59	29.98	-60.31	-13.00	47.31	148	129	Horizontal
2	5613.27	40.09	-43.84	32.96	-66.05	-13.00	53.05	259	331	Horizontal
3	7484.36	39.59	-41.66	36.49	-60.84	-13.00	47.84	288	331	Horizontal
4	9355.45	35.04	-38.26	38.56	-59.92	-13.00	46.92	147	46	Horizontal
5	11226.54	32.30	-35.07	39.37	-58.65	-13.00	45.65	163	231	Horizontal
6	13097.63	31.95	-34.47	39.66	-58.12	-13.00	45.12	187	46	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	49.16	-45.59	29.98	-61.70	-13.00	48.70	271	62	Vertical
2	5613.27	40.74	-43.84	32.96	-65.40	-13.00	52.40	186	0	Vertical
3	7484.36	39.53	-41.66	36.49	-60.90	-13.00	47.90	291	176	Vertical
4	9355.45	35.27	-38.26	38.56	-59.69	-13.00	46.69	211	210	Vertical
5	11226.54	31.76	-35.07	39.37	-59.19	-13.00	46.19	146	326	Vertical
6	13097.63	32.57	-34.47	39.66	-57.50	-13.00	44.50	230	0	Vertical



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**Test Band = LTE Band 2\_TM1\_Ant31**

**Test Channel = High Channel \_20MHz**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	49.86	-45.48	30.08	-60.80	-13.00	47.80	187	125	Horizontal
2	5673.27	40.68	-43.77	33.16	-65.20	-13.00	52.20	155	1	Horizontal
3	7564.36	36.41	-41.38	36.63	-63.60	-13.00	50.60	163	209	Horizontal
4	9455.45	35.53	-38.15	38.55	-59.33	-13.00	46.33	284	0	Horizontal
5	11346.54	32.24	-35.43	39.25	-59.20	-13.00	46.20	179	192	Horizontal
6	13237.63	31.39	-34.98	39.74	-59.10	-13.00	46.10	245	75	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	49.57	-45.48	30.08	-61.09	-13.00	48.09	241	75	Vertical
2	5673.27	40.65	-43.77	33.16	-65.23	-13.00	52.23	187	291	Vertical
3	7564.36	36.57	-41.38	36.63	-63.44	-13.00	50.44	195	241	Vertical
4	9455.45	36.38	-38.15	38.55	-58.48	-13.00	45.48	206	191	Vertical
5	11346.54	32.15	-35.43	39.25	-59.29	-13.00	46.29	238	357	Vertical
6	13237.63	31.80	-34.98	39.74	-58.69	-13.00	45.69	306	125	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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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	1.30	0.000691	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	4.60	0.002447	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	3.60	0.001915	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-2.80	-0.001489	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-0.60	-0.000319	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	2.20	0.001170	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	9.20	0.004894	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	5.50	0.002926	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	3.40	0.001809	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-1.20	-0.000638	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-1.20	-0.000638	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	0.60	0.000319	PASS

---End of Attachment---

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