

Appendix B.1

LTE Band 2



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	22.86	24.45	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.7	24.29	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.63	24.22	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.62	23.21	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.62	24.21	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.64	24.23	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.46	24.05	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.71	23.3	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.32	23.91	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.45	24.04	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.46	24.05	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.59	23.18	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.29	22.88	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.89	23.48	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.22	22.81	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.44	22.03	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.89	23.48	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.82	23.41	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.21	22.8	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.75	22.34	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.04	22.63	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.66	23.25	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.38	22.97	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.59	22.18	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#0	21.55	23.14	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#2	21.57	23.16	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#5	21.31	22.9	33	PASS



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Band2	1.4MHz	64QAM	18607	6RB#0	20.65	22.24	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#0	21.45	23.04	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#2	21.6	23.19	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#5	21.44	23.03	33	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	20.71	22.3	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#0	21.01	22.6	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#2	21.17	22.76	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#5	21.17	22.76	33	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	20.42	22.01	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.64	24.23	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.5	24.09	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.7	24.29	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.66	23.25	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.64	24.23	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.64	24.23	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.55	24.14	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.7	23.29	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.66	24.25	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.59	24.18	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.51	24.1	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.49	23.08	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.7	23.29	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.23	22.82	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.75	23.34	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.67	22.26	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.89	23.48	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.59	23.18	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.74	23.33	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.68	22.27	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	20.98	22.57	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.17	22.76	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.72	23.31	33	PASS



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Band2	3MHz	16QAM	19185	15RB#0	20.51	22.1	33	PASS
Band2	3MHz	64QAM	18615	1RB#0	20.73	22.32	33	PASS
Band2	3MHz	64QAM	18615	1RB#8	21.06	22.65	33	PASS
Band2	3MHz	64QAM	18615	1RB#14	20.38	21.97	33	PASS
Band2	3MHz	64QAM	18615	15RB#0	19.54	21.13	33	PASS
Band2	3MHz	64QAM	18900	1RB#0	20.74	22.33	33	PASS
Band2	3MHz	64QAM	18900	1RB#8	20.32	21.91	33	PASS
Band2	3MHz	64QAM	18900	1RB#14	20.31	21.9	33	PASS
Band2	3MHz	64QAM	18900	15RB#0	19.91	21.5	33	PASS
Band2	3MHz	64QAM	19185	1RB#0	20.69	22.28	33	PASS
Band2	3MHz	64QAM	19185	1RB#8	20.79	22.38	33	PASS
Band2	3MHz	64QAM	19185	1RB#14	20.65	22.24	33	PASS
Band2	3MHz	64QAM	19185	15RB#0	19.74	21.33	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.75	24.34	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.67	24.26	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.46	24.05	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.47	23.06	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.63	24.22	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.64	24.23	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.64	24.23	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.58	23.17	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.31	23.9	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.54	24.13	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.31	23.9	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.45	23.04	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.34	22.93	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.54	23.13	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.23	22.82	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.68	22.27	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.12	22.71	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.93	23.52	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.1	22.69	33	PASS



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Band2	5MHz	16QAM	18900	25RB#0	20.8	22.39	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.52	23.11	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.43	23.02	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	21	22.59	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.58	22.17	33	PASS
Band2	5MHz	64QAM	18625	1RB#0	20.53	22.12	33	PASS
Band2	5MHz	64QAM	18625	1RB#12	20.87	22.46	33	PASS
Band2	5MHz	64QAM	18625	1RB#24	20.81	22.4	33	PASS
Band2	5MHz	64QAM	18625	25RB#0	19.57	21.16	33	PASS
Band2	5MHz	64QAM	18900	1RB#0	20.63	22.22	33	PASS
Band2	5MHz	64QAM	18900	1RB#12	20.75	22.34	33	PASS
Band2	5MHz	64QAM	18900	1RB#24	20.66	22.25	33	PASS
Band2	5MHz	64QAM	18900	25RB#0	19.87	21.46	33	PASS
Band2	5MHz	64QAM	19175	1RB#0	20.91	22.5	33	PASS
Band2	5MHz	64QAM	19175	1RB#12	20.77	22.36	33	PASS
Band2	5MHz	64QAM	19175	1RB#24	20.07	21.66	33	PASS
Band2	5MHz	64QAM	19175	25RB#0	19.74	21.33	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.76	24.35	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.93	24.52	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.73	24.32	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.8	23.39	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.53	24.12	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.82	24.41	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.51	24.1	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.61	23.2	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.41	24	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.75	24.34	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.44	24.03	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.44	23.03	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.04	22.63	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.41	23	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.85	23.44	33	PASS



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Band2	10MHz	16QAM	18650	50RB#0	20.79	22.38	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.72	23.31	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.17	22.76	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	20.98	22.57	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.73	22.32	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.14	22.73	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.21	22.8	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	20.89	22.48	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.57	22.16	33	PASS
Band2	10MHz	64QAM	18650	1RB#0	20.85	22.44	33	PASS
Band2	10MHz	64QAM	18650	1RB#24	20.75	22.34	33	PASS
Band2	10MHz	64QAM	18650	1RB#49	20.77	22.36	33	PASS
Band2	10MHz	64QAM	18650	50RB#0	19.82	21.41	33	PASS
Band2	10MHz	64QAM	18900	1RB#0	20.29	21.88	33	PASS
Band2	10MHz	64QAM	18900	1RB#24	20.53	22.12	33	PASS
Band2	10MHz	64QAM	18900	1RB#49	20.52	22.11	33	PASS
Band2	10MHz	64QAM	18900	50RB#0	19.71	21.3	33	PASS
Band2	10MHz	64QAM	19150	1RB#0	21	22.59	33	PASS
Band2	10MHz	64QAM	19150	1RB#24	20.73	22.32	33	PASS
Band2	10MHz	64QAM	19150	1RB#49	20.89	22.48	33	PASS
Band2	10MHz	64QAM	19150	50RB#0	19.56	21.15	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.63	24.22	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.6	24.19	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.73	24.32	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.69	23.28	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.74	24.33	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.84	24.43	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.58	24.17	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.66	23.25	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.49	24.08	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.67	24.26	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.46	24.05	33	PASS



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Band2	15MHz	QPSK	19125	75RB#0	21.6	23.19	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.12	22.71	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.49	23.08	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.26	22.85	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.76	22.35	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.28	22.87	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.25	22.84	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.05	23.64	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.78	22.37	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.19	22.78	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.5	23.09	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	20.91	22.5	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.63	22.22	33	PASS
Band2	15MHz	64QAM	18675	1RB#0	20.98	22.57	33	PASS
Band2	15MHz	64QAM	18675	1RB#38	20.72	22.31	33	PASS
Band2	15MHz	64QAM	18675	1RB#74	20.4	21.99	33	PASS
Band2	15MHz	64QAM	18675	75RB#0	19.77	21.36	33	PASS
Band2	15MHz	64QAM	18900	1RB#0	21.12	22.71	33	PASS
Band2	15MHz	64QAM	18900	1RB#38	20.93	22.52	33	PASS
Band2	15MHz	64QAM	18900	1RB#74	20.98	22.57	33	PASS
Band2	15MHz	64QAM	18900	75RB#0	19.73	21.32	33	PASS
Band2	15MHz	64QAM	19125	1RB#0	21.06	22.65	33	PASS
Band2	15MHz	64QAM	19125	1RB#38	20.66	22.25	33	PASS
Band2	15MHz	64QAM	19125	1RB#74	20.36	21.95	33	PASS
Band2	15MHz	64QAM	19125	75RB#0	19.62	21.21	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.86	24.45	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.09	24.68	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.54	24.13	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.67	23.26	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.42	24.01	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.72	24.31	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.5	24.09	33	PASS



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Band2	20MHz	QPSK	18900	100RB#0	21.7	23.29	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.37	23.96	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.55	24.14	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.31	23.9	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.6	23.19	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.8	23.39	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.4	22.99	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.86	23.45	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.65	22.24	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.6	23.19	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.33	22.92	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	20.88	22.47	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.71	22.3	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.65	23.24	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.83	23.42	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	20.95	22.54	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.64	22.23	33	PASS
Band2	20MHz	64QAM	18700	1RB#0	20.48	22.07	33	PASS
Band2	20MHz	64QAM	18700	1RB#49	20.89	22.48	33	PASS
Band2	20MHz	64QAM	18700	1RB#99	20.36	21.95	33	PASS
Band2	20MHz	64QAM	18700	100RB#0	19.78	21.37	33	PASS
Band2	20MHz	64QAM	18900	1RB#0	20.76	22.35	33	PASS
Band2	20MHz	64QAM	18900	1RB#49	21.05	22.64	33	PASS
Band2	20MHz	64QAM	18900	1RB#99	20.36	21.95	33	PASS
Band2	20MHz	64QAM	18900	100RB#0	19.69	21.28	33	PASS
Band2	20MHz	64QAM	19100	1RB#0	20.25	21.84	33	PASS
Band2	20MHz	64QAM	19100	1RB#49	20.66	22.25	33	PASS
Band2	20MHz	64QAM	19100	1RB#99	20.96	22.55	33	PASS
Band2	20MHz	64QAM	19100	100RB#0	19.7	21.29	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

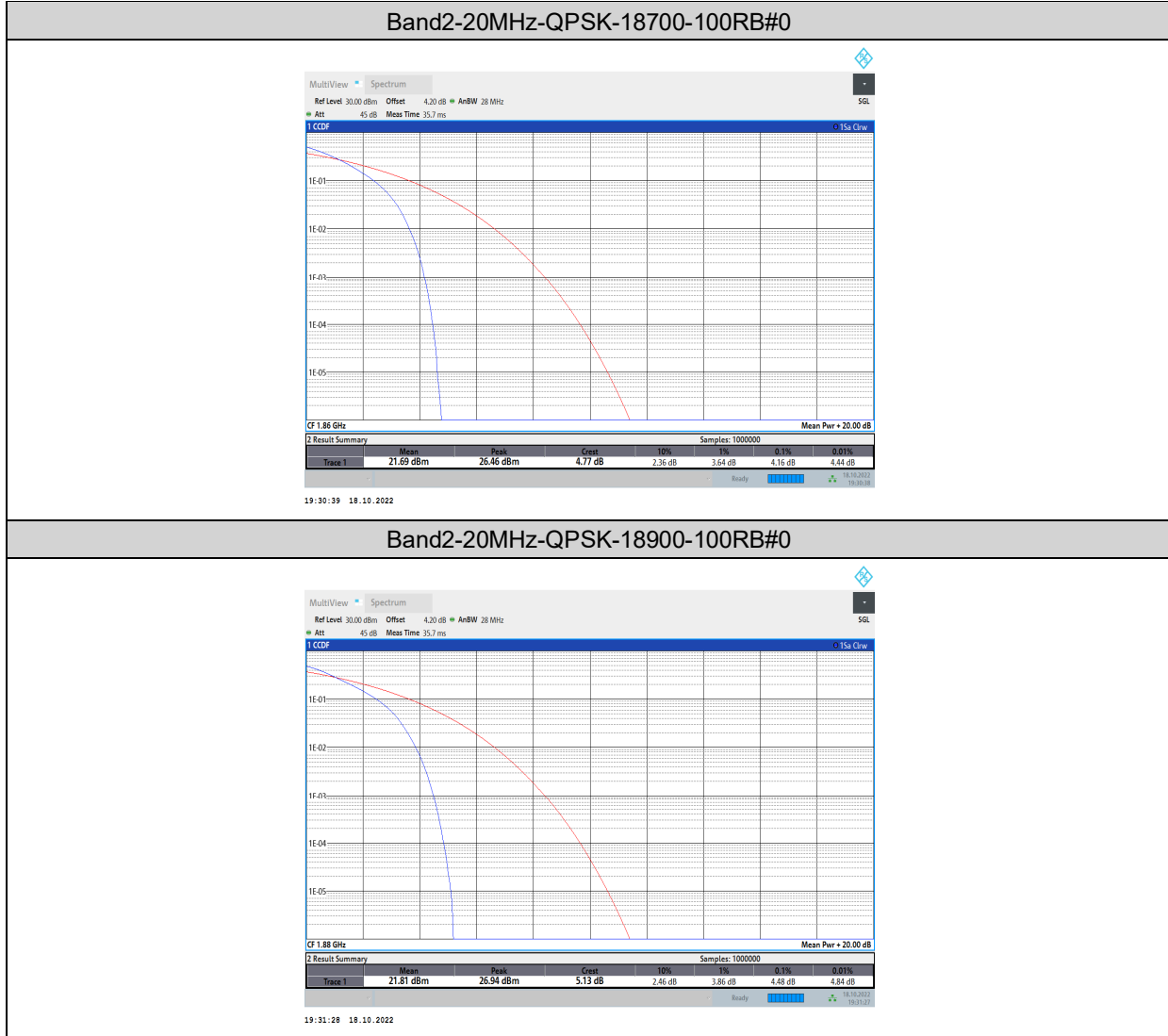
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	20MHz	QPSK	18700	100RB#0	4.16	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	4.48	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	4.66	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	5.10	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	5.30	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	5.30	13	PASS
Band2	20MHz	64QAM	18700	100RB#0	6.38	13	PASS
Band2	20MHz	64QAM	18900	100RB#0	6.60	13	PASS
Band2	20MHz	64QAM	19100	100RB#0	6.56	13	PASS



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Test Graphs

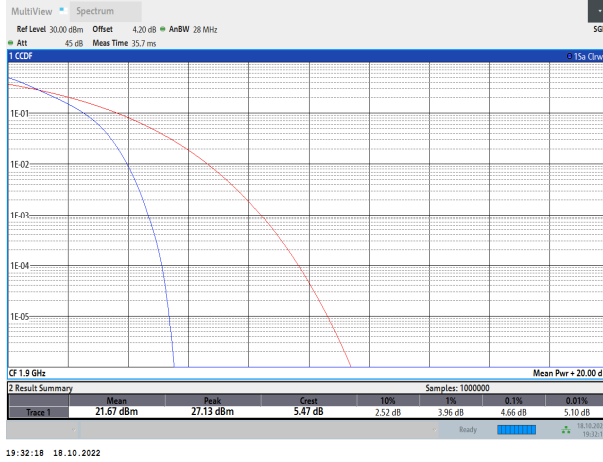


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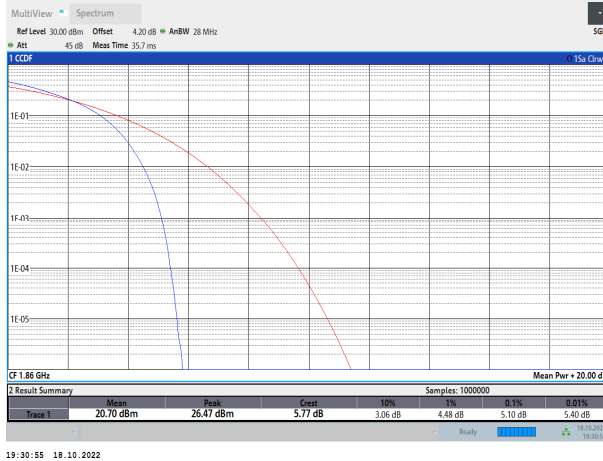
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Band2-20MHz-QPSK-19100-100RB#0



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

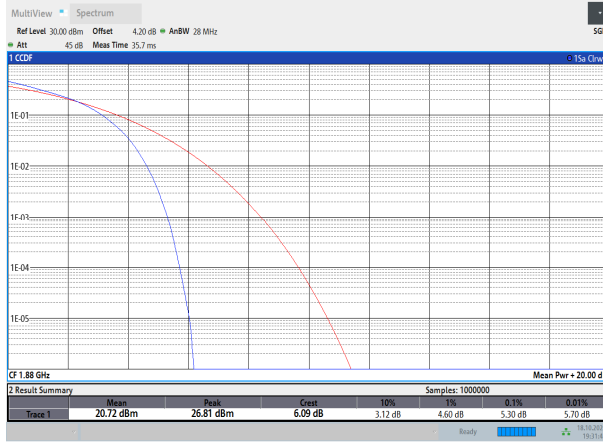


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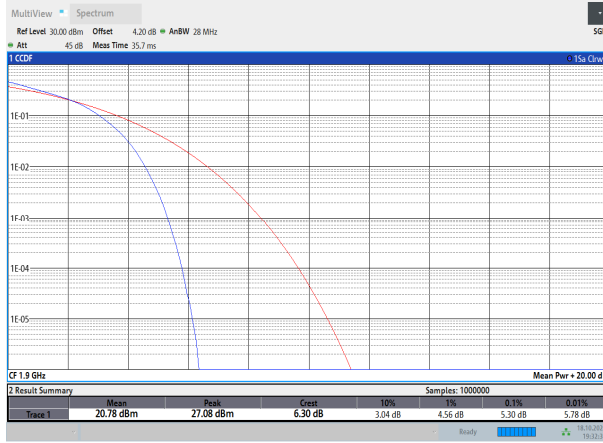
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Band2-20MHz-16QAM-18900-100RB#0



19:31:45 18.10.2022

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



19:32:34 18.10.2022

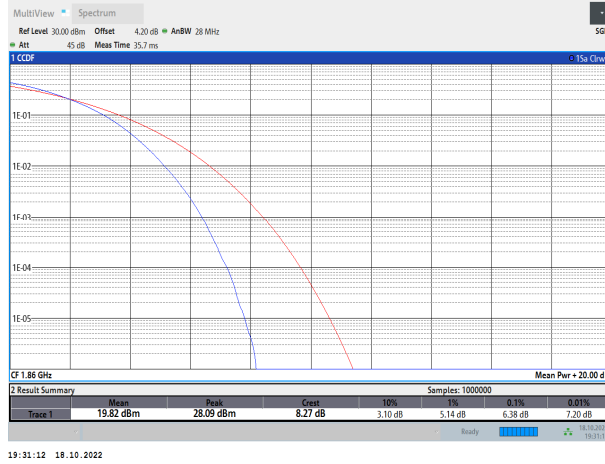


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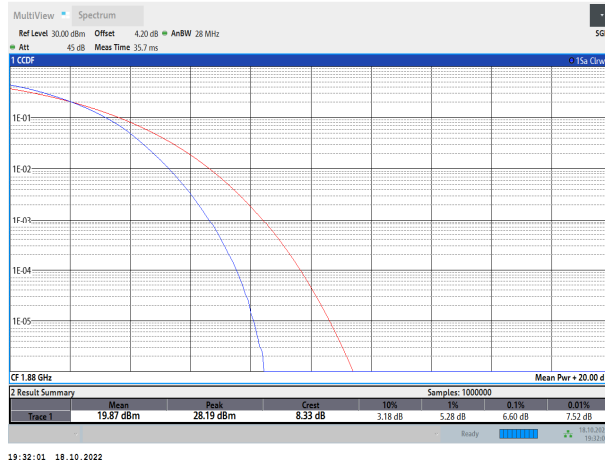
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Band2-20MHz-64QAM-18700-100RB#0



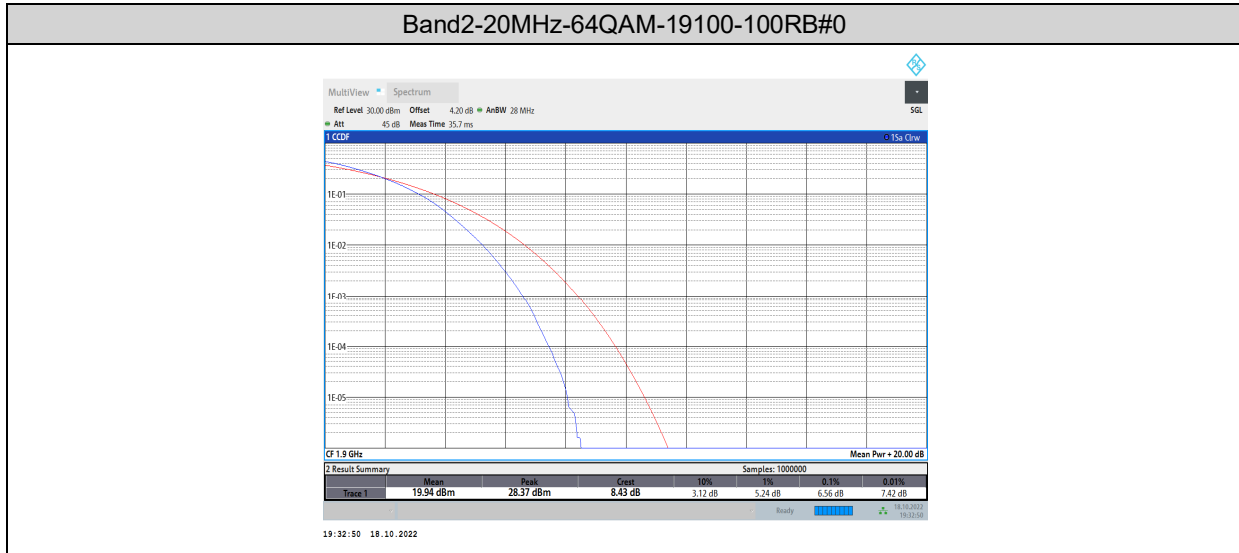
Band2-20MHz-64QAM-18900-100RB#0



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Modulation Characteristics

Test Result

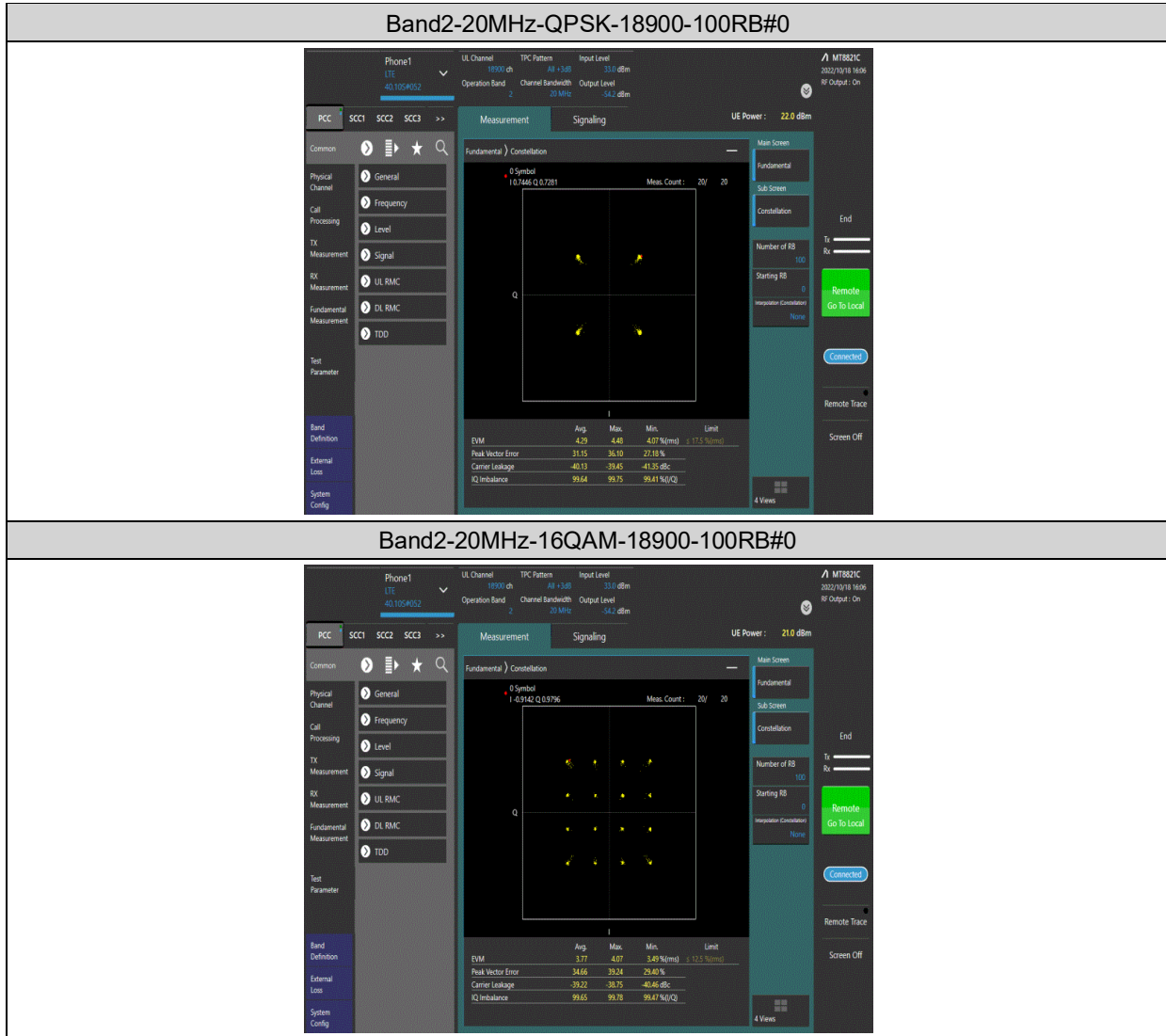
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	20MHz	QPSK	18900	100RB#0	PASS	PASS
Band2	20MHz	16QAM	18900	100RB#0	PASS	PASS
Band2	20MHz	64QAM	18900	100RB#0	PASS	PASS



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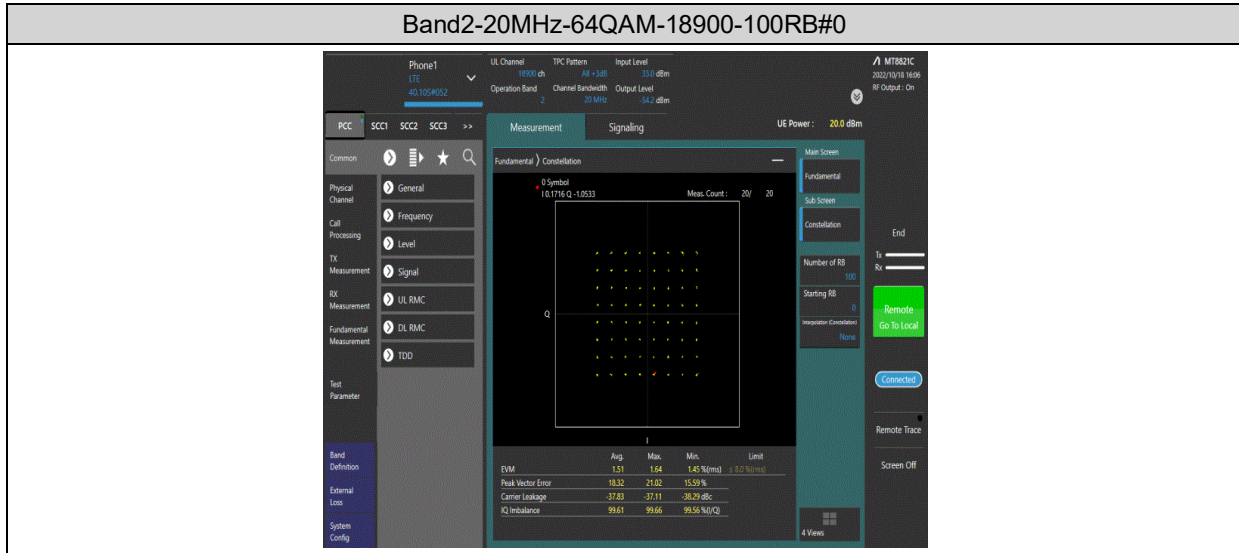
Test Graphs



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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	1.081	1.23	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.092	1.32	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.087	1.32	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.11	1.28	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.098	1.32	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.101	1.32	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	1.103	1.42	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	1.093	1.33	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	1.093	1.33	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.703	3.31	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.693	2.98	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.691	2.98	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.689	3.81	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.687	2.98	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.687	2.98	PASS
Band2	3MHz	64QAM	18615	15RB#0	2.686	2.96	PASS
Band2	3MHz	64QAM	18900	15RB#0	2.688	2.97	PASS
Band2	3MHz	64QAM	19185	15RB#0	2.688	2.96	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.466	5.10	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.47	4.91	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.467	4.90	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.467	4.94	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.47	4.97	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.469	4.93	PASS
Band2	5MHz	64QAM	18625	25RB#0	4.48	4.91	PASS
Band2	5MHz	64QAM	18900	25RB#0	4.485	4.92	PASS
Band2	5MHz	64QAM	19175	25RB#0	4.48	4.92	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.885	9.22	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.91	9.70	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.917	9.80	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.883	9.60	PASS



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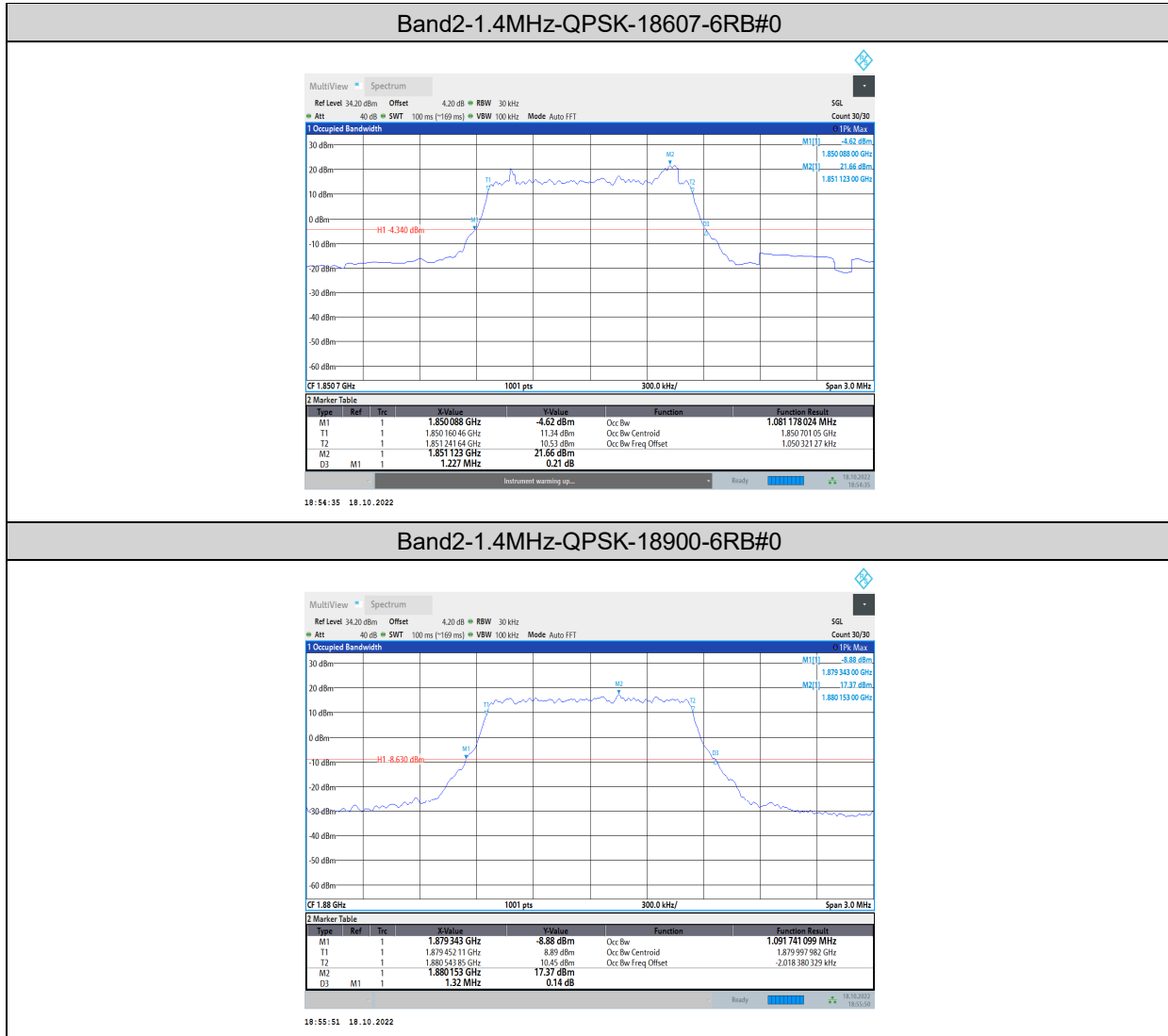
Band2	10MHz	16QAM	18900	50RB#0	8.905	9.68	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.91	9.70	PASS
Band2	10MHz	64QAM	18650	50RB#0	8.896	9.60	PASS
Band2	10MHz	64QAM	18900	50RB#0	8.917	9.66	PASS
Band2	10MHz	64QAM	19150	50RB#0	8.926	9.66	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.365	14.67	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.438	14.76	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.485	14.88	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.353	14.73	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.421	14.85	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.458	14.88	PASS
Band2	15MHz	64QAM	18675	75RB#0	13.333	14.70	PASS
Band2	15MHz	64QAM	18900	75RB#0	13.407	14.76	PASS
Band2	15MHz	64QAM	19125	75RB#0	13.447	14.82	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.756	19.16	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.883	19.56	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.925	19.48	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.723	19.12	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.857	19.44	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.922	19.52	PASS
Band2	20MHz	64QAM	18700	100RB#0	17.745	19.36	PASS
Band2	20MHz	64QAM	18900	100RB#0	17.859	19.36	PASS
Band2	20MHz	64QAM	19100	100RB#0	17.915	19.40	PASS



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Test Graphs



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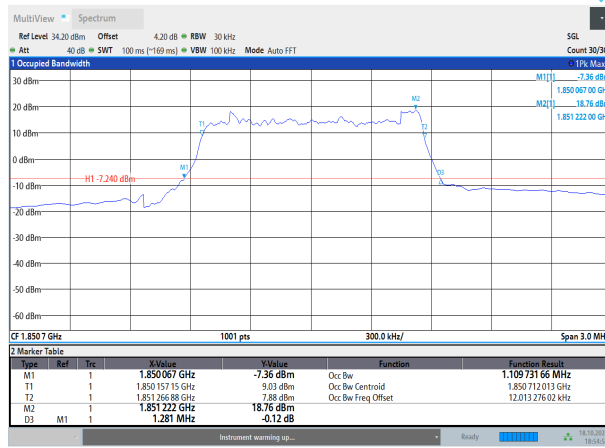
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Band2-1.4MHz-QPSK-19193-6RB#0



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

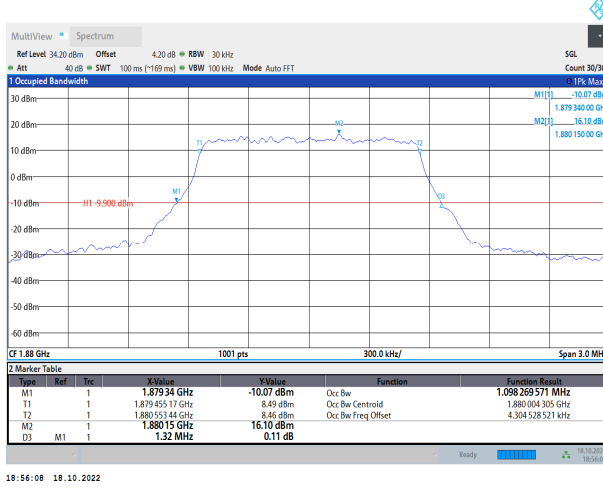


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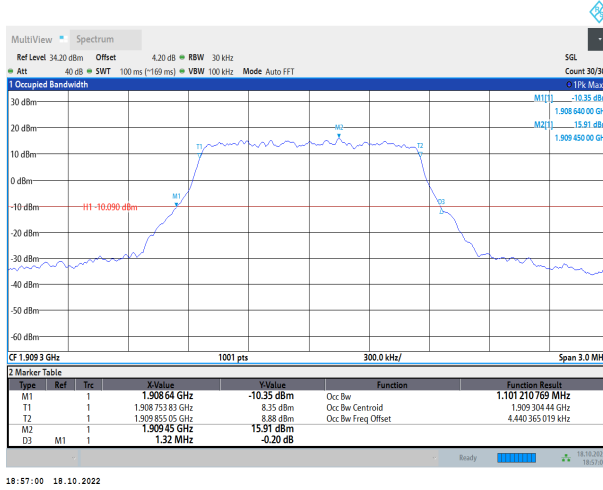
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Band2-1.4MHz-16QAM-18900-6RB#0



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

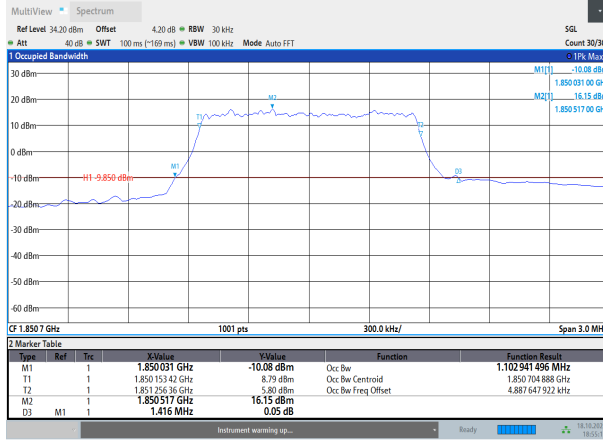


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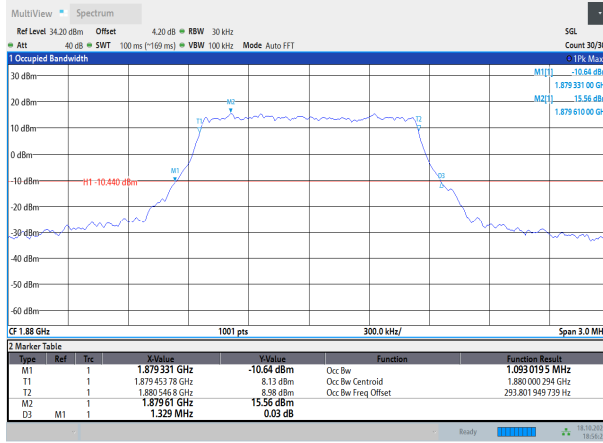
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Band2-1.4MHz-64QAM-18607-6RB#0



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

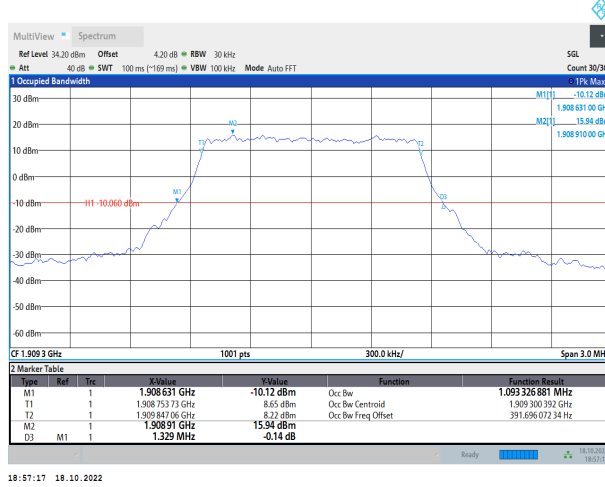


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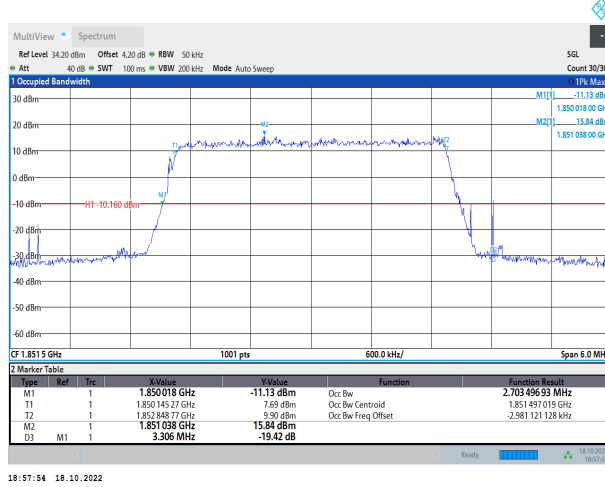
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Band2-1.4MHz-64QAM-19193-6RB#0



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

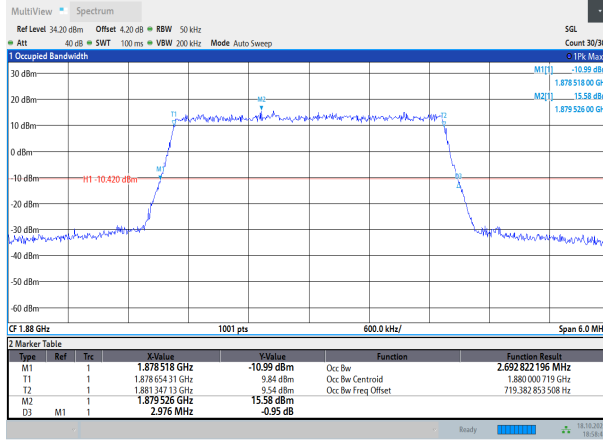


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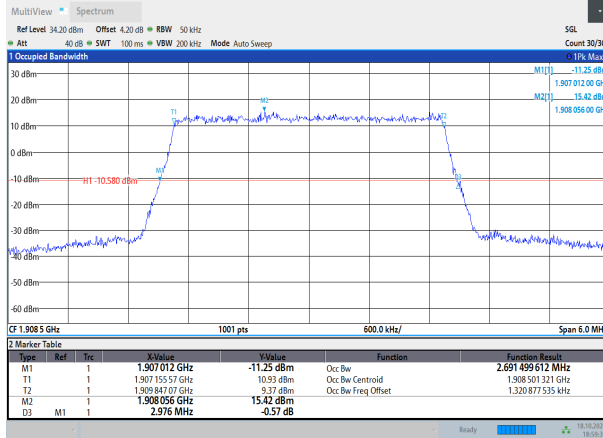
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Band2-3MHz-QPSK-18900-15RB#0



18:58:44 18.10.2022

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



18:59:33 18.10.2022

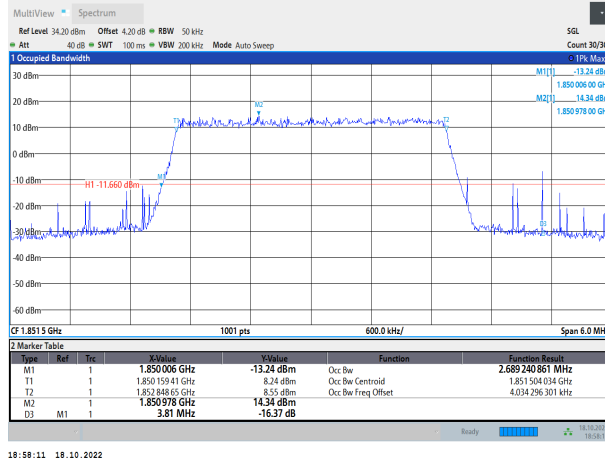


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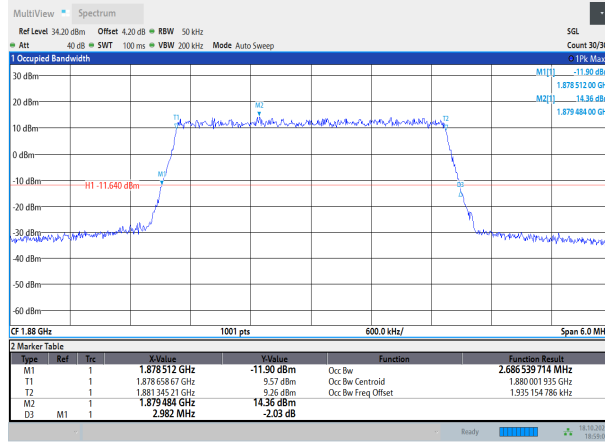
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Band2-3MHz-16QAM-18615-15RB#0



18:58:11 18.10.2022

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



18:59:00 18.10.2022

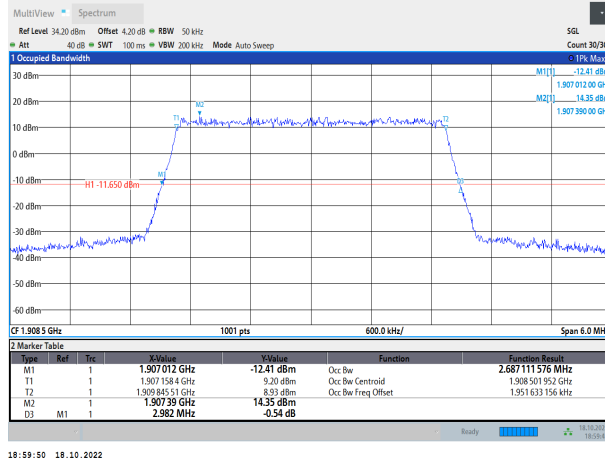


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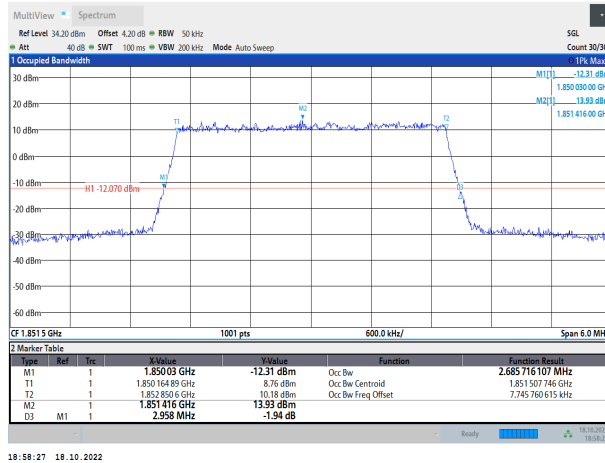
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Band2-3MHz-16QAM-19185-15RB#0



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

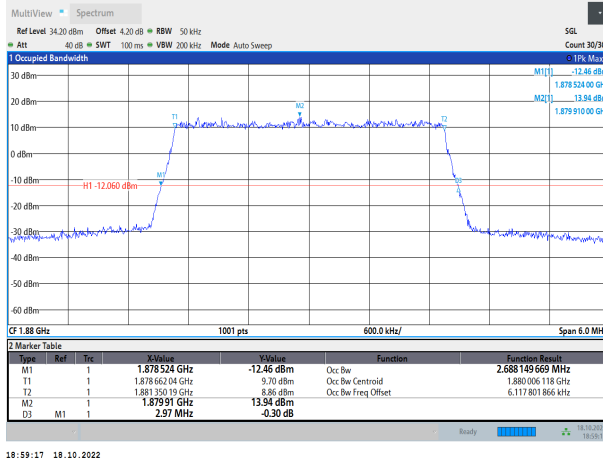


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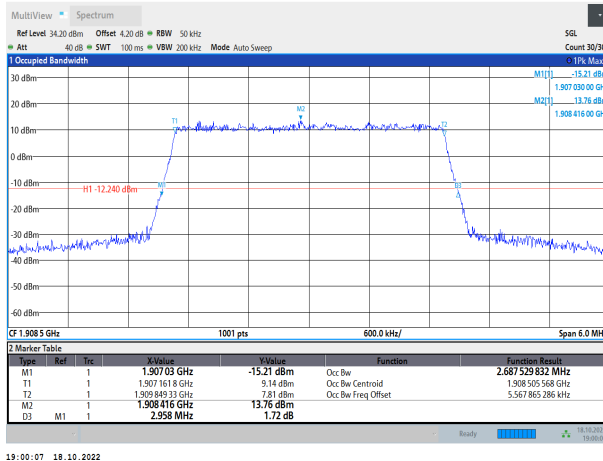
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Band2-3MHz-64QAM-18900-15RB#0



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

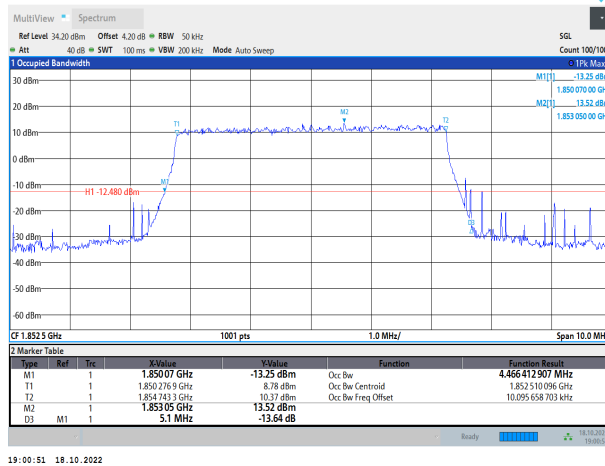


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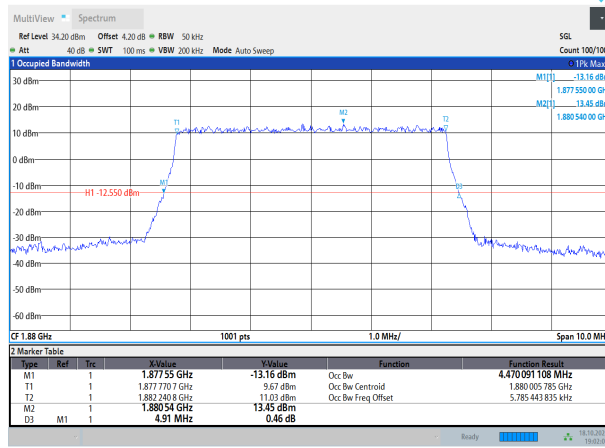
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Band2-5MHz-QPSK-18625-25RB#0



19:00:51 18.10.2022

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



19:02:02 18.10.2022

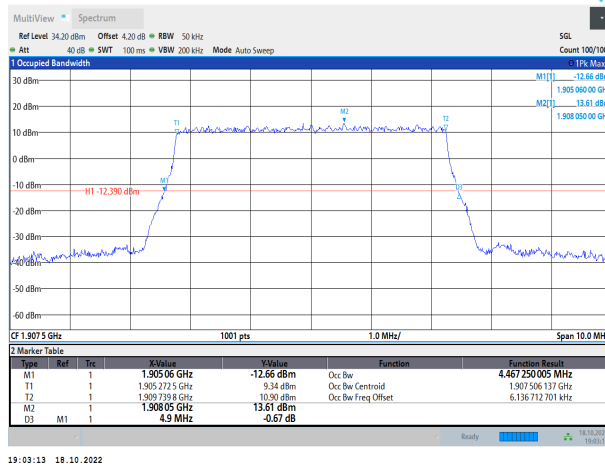


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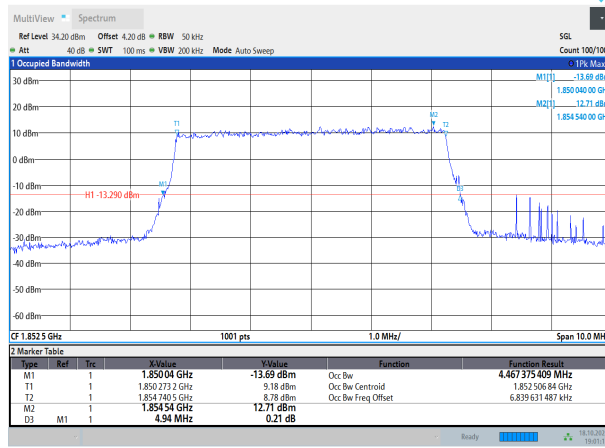
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Band2-5MHz-QPSK-19175-25RB#0



19:09:13 18.10.2022

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



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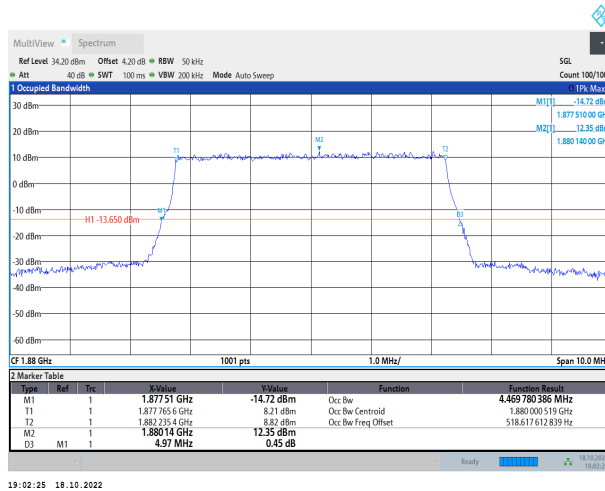


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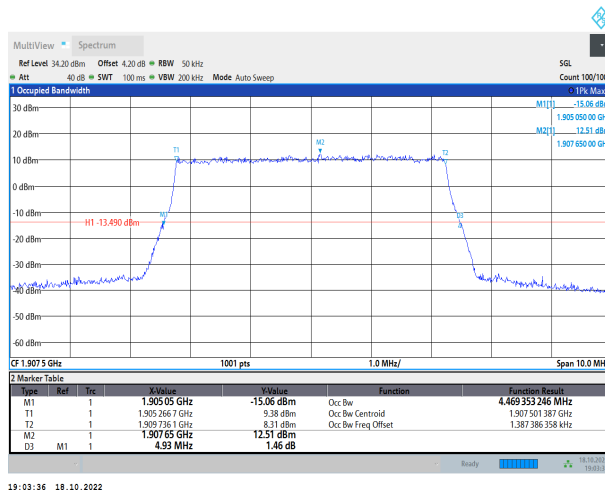
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Band2-5MHz-16QAM-18900-25RB#0



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

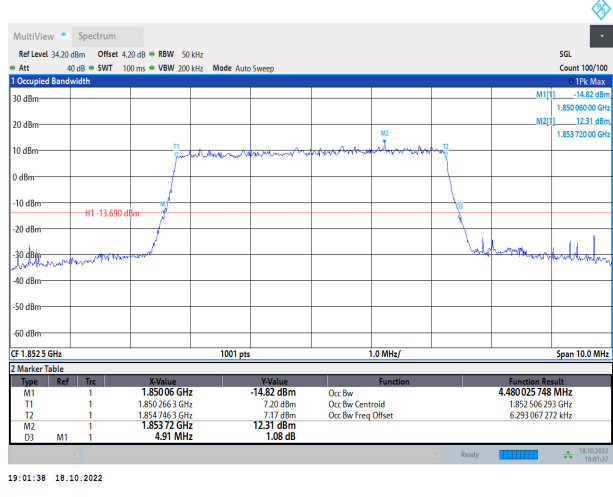


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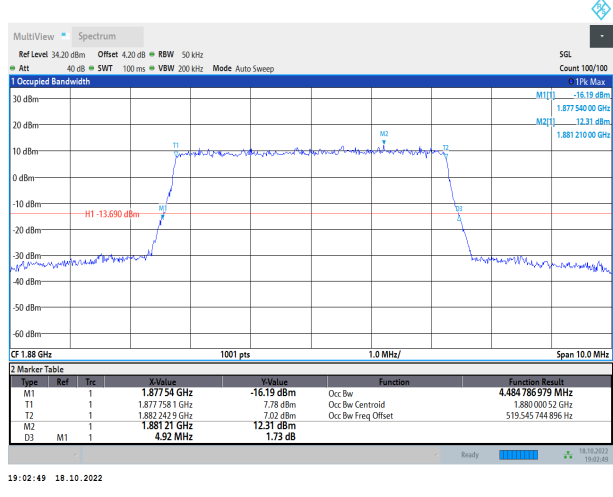
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Band2-5MHz-64QAM-18625-25RB#0



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

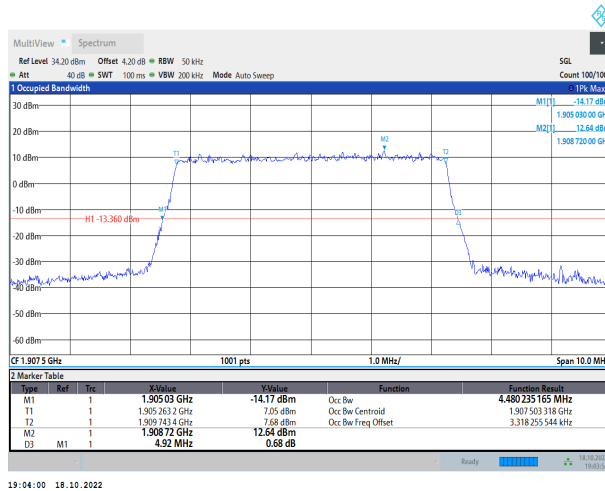


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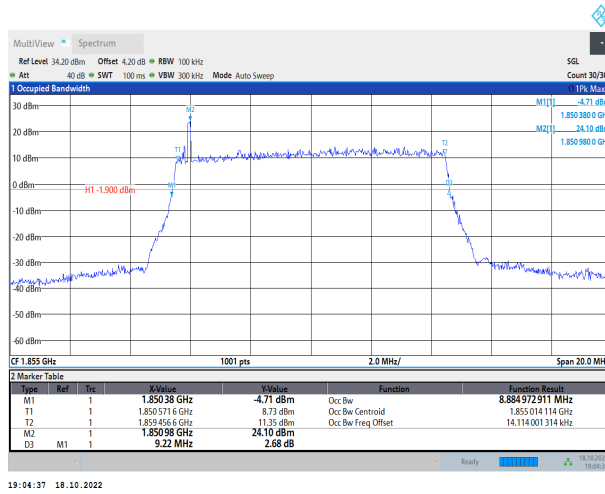
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Band2-5MHz-64QAM-19175-25RB#0



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

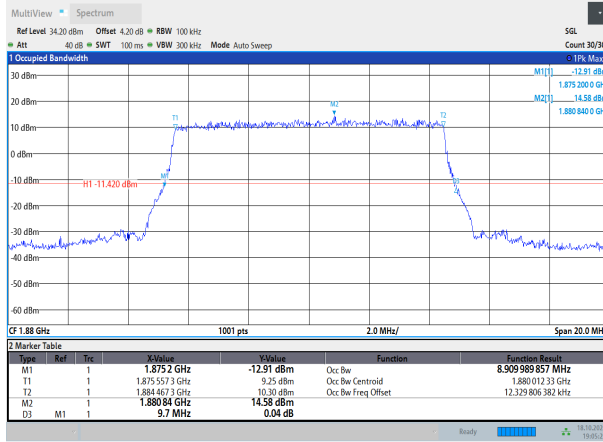


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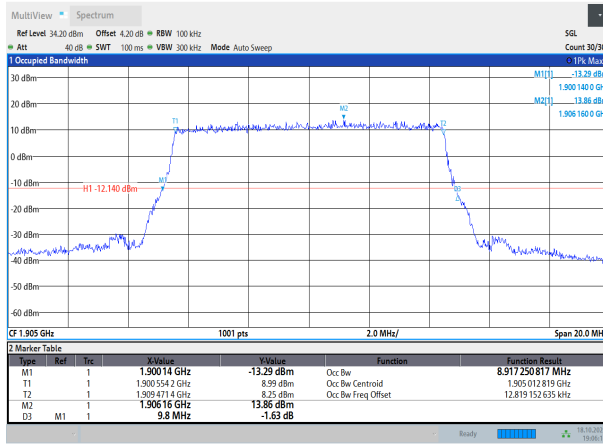
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Band2-10MHz-QPSK-18900-50RB#0



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

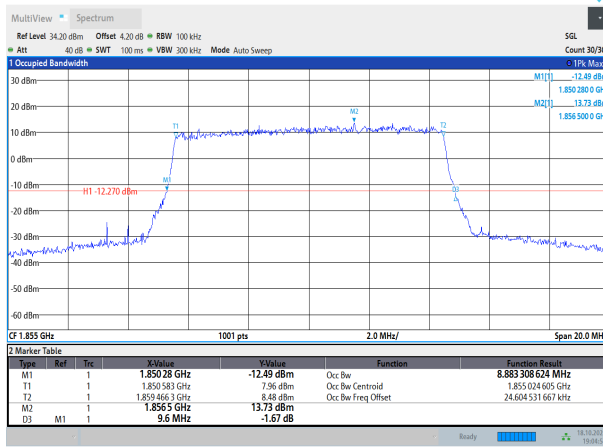


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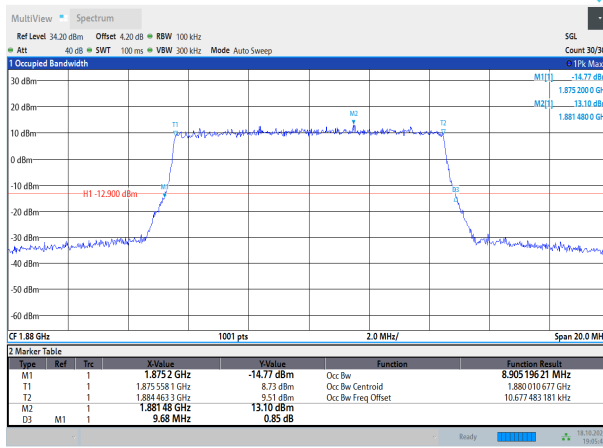
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Band2-10MHz-16QAM-18650-50RB#0



19:04:53 18.10.2022

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



19:05:42 18.10.2022

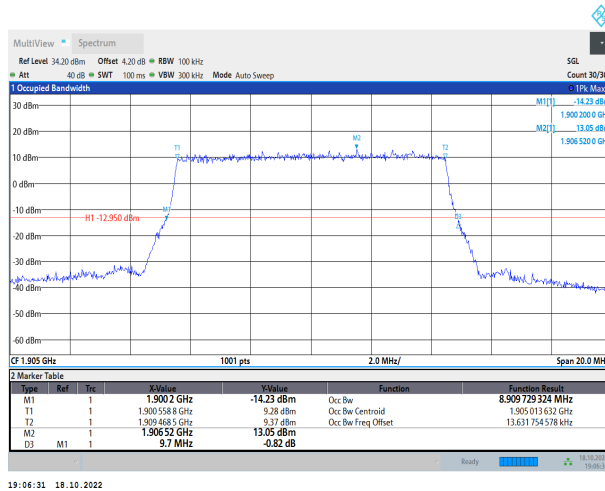


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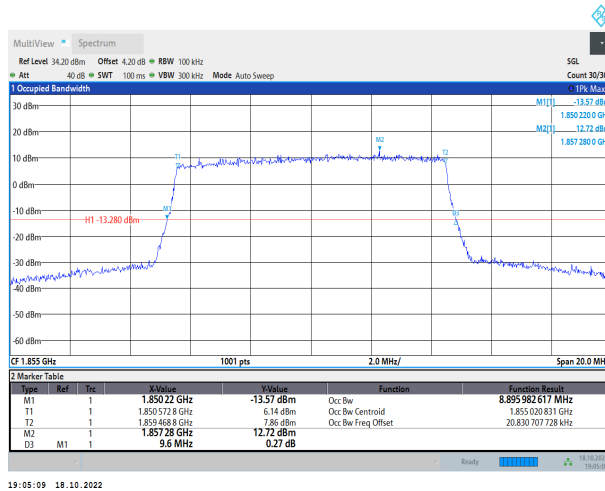
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Band2-10MHz-16QAM-19150-50RB#0



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

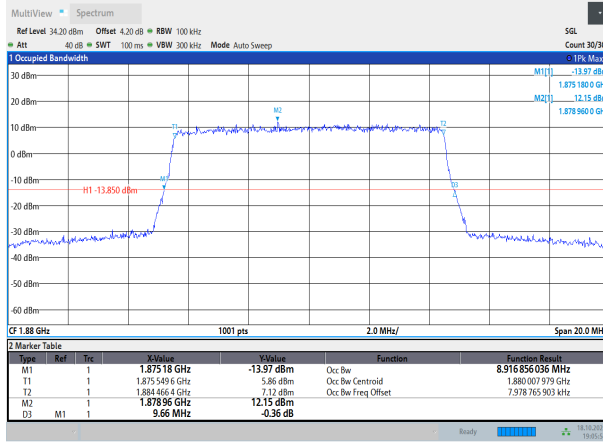


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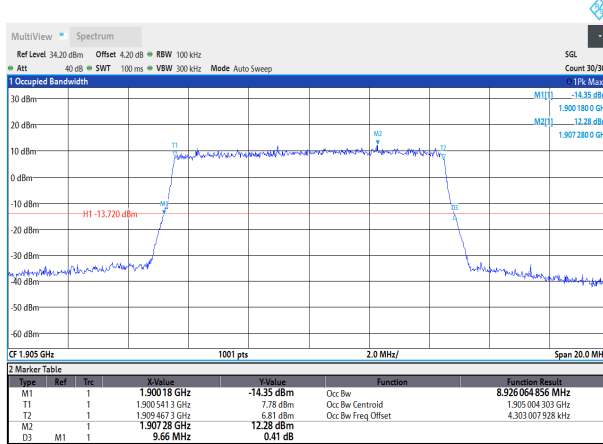
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Band2-10MHz-64QAM-18900-50RB#0



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



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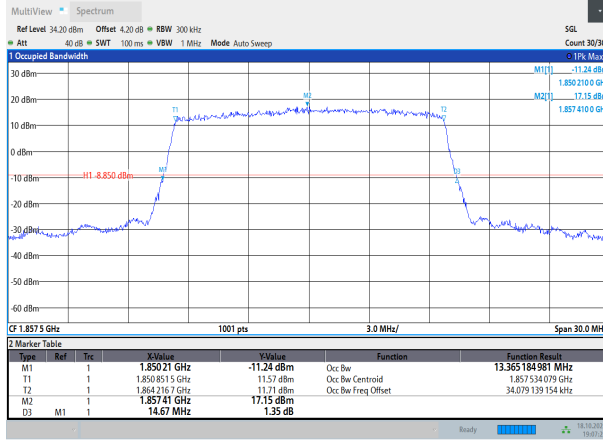


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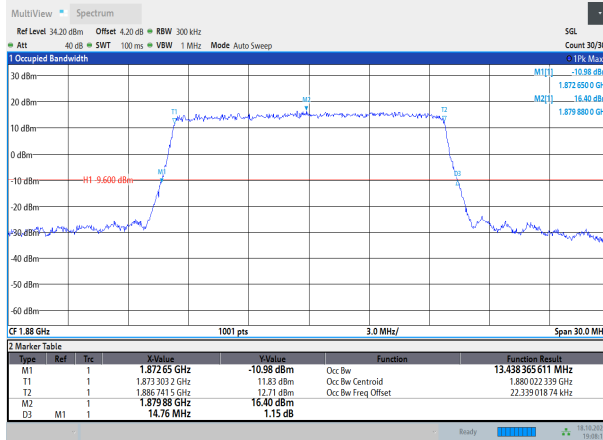
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Band2-15MHz-QPSK-18675-75RB#0



19:07:25 18.10.2022

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



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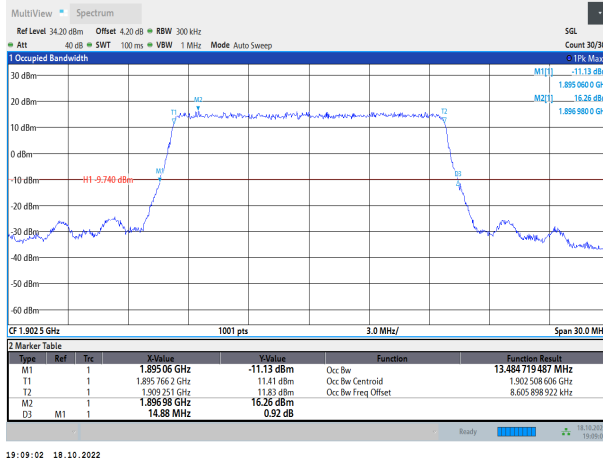


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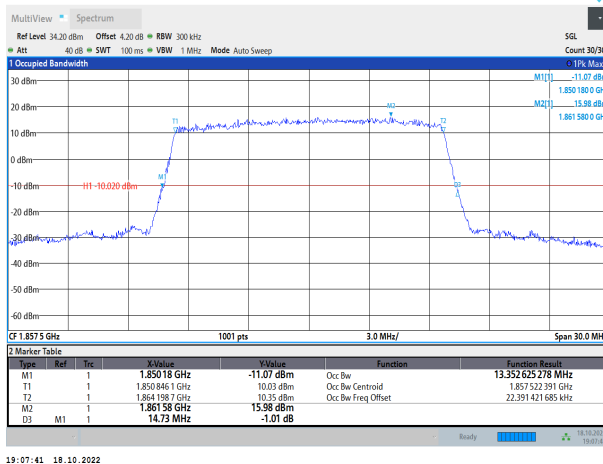
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Band2-15MHz-QPSK-19125-75RB#0



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

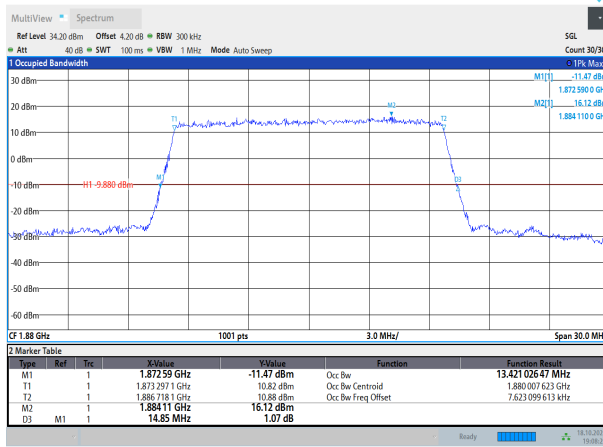


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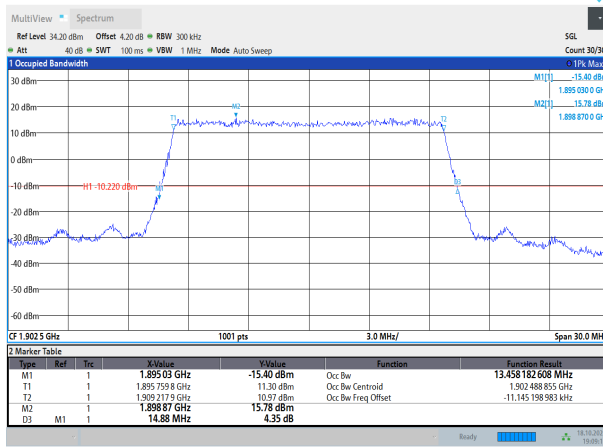
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Band2-15MHz-16QAM-18900-75RB#0



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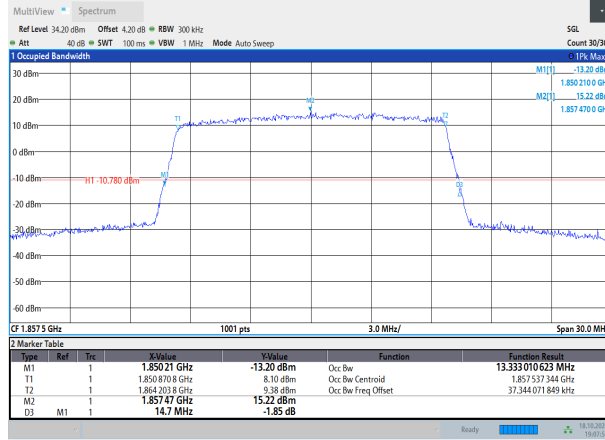


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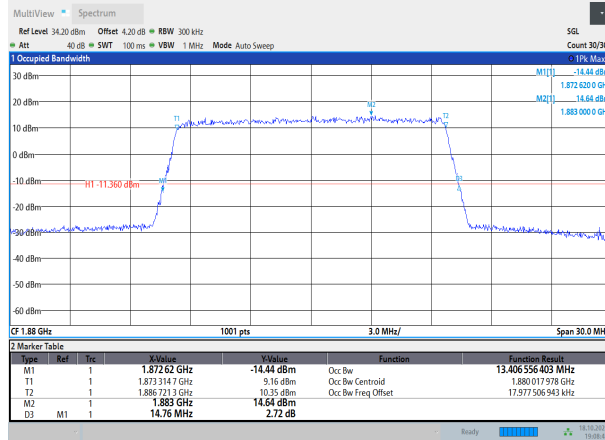
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Band2-15MHz-64QAM-18675-75RB#0



19:07:57 18.10.2022

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



19:08:45 18.10.2022

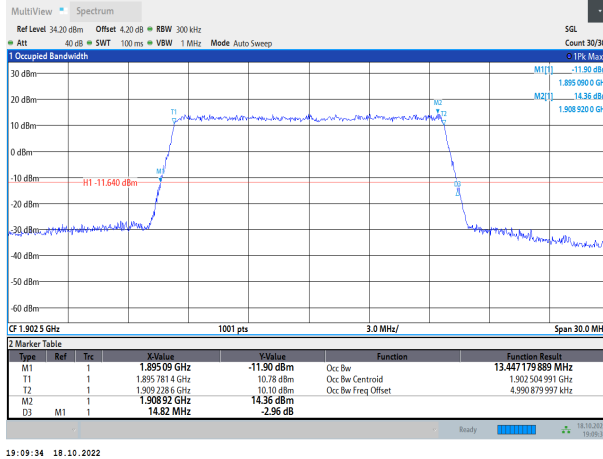


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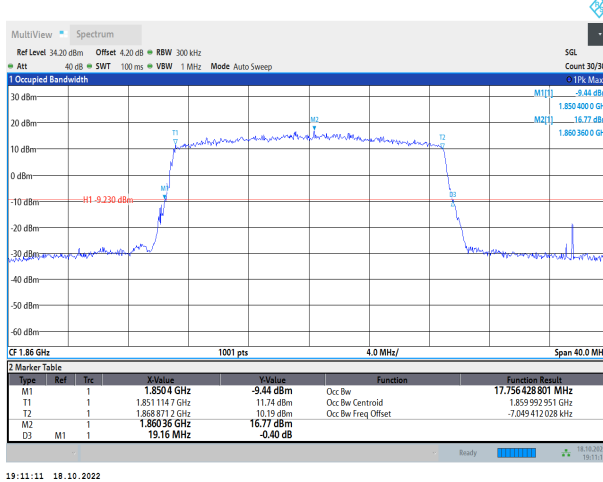
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Band2-15MHz-64QAM-19125-75RB#0



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

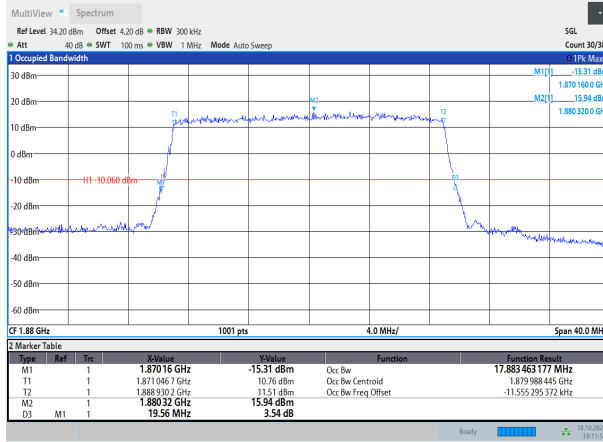


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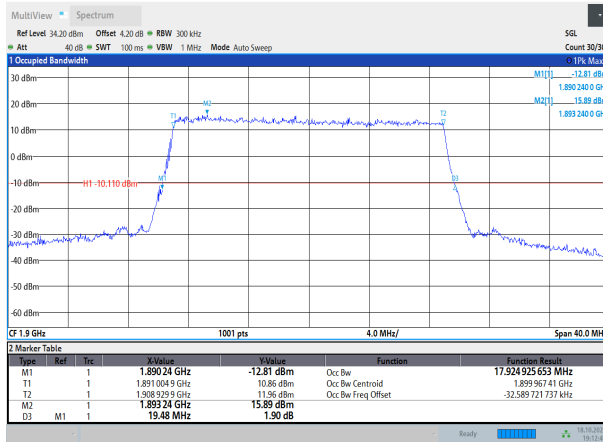
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Band2-20MHz-QPSK-18900-100RB#0



19:12:00 18.10.2022

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



19:12:49 18.10.2022

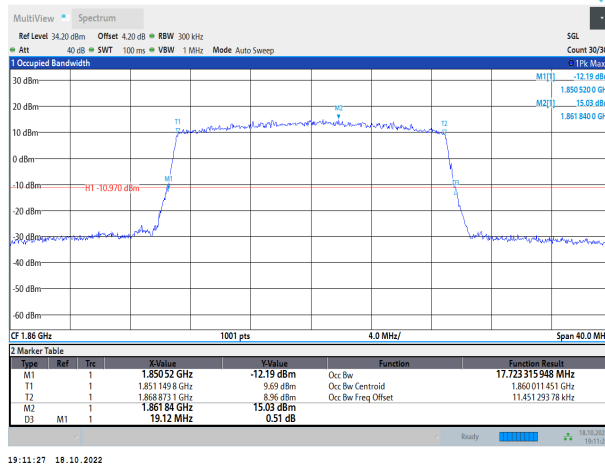


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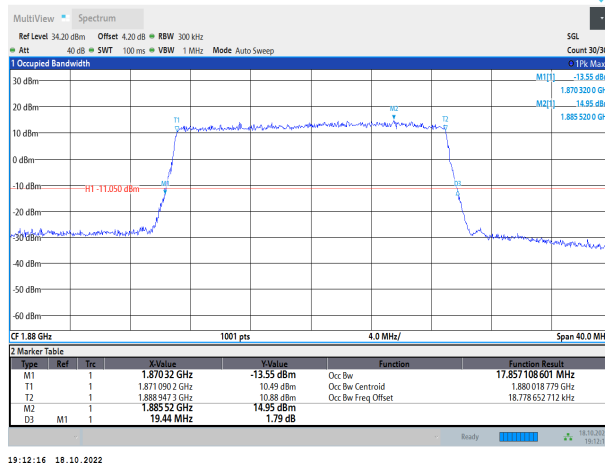
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Band2-20MHz-16QAM-18700-100RB#0



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

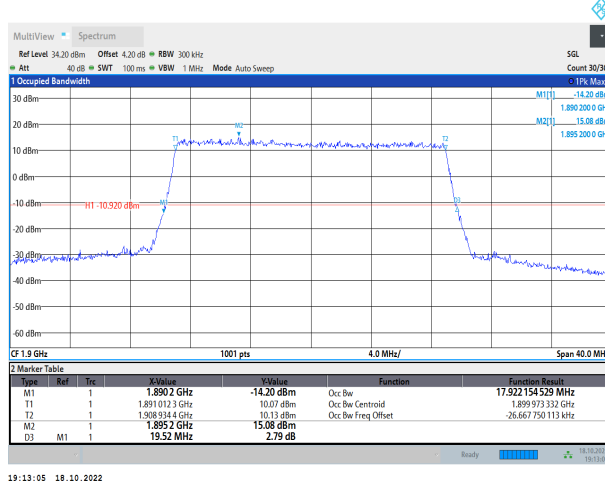


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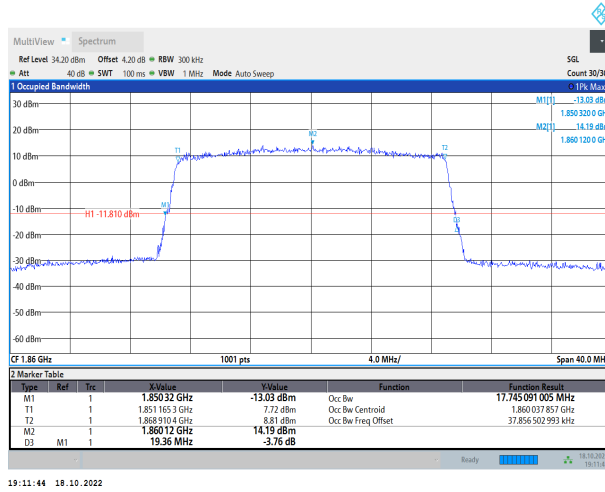
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Band2-20MHz-16QAM-19100-100RB#0



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

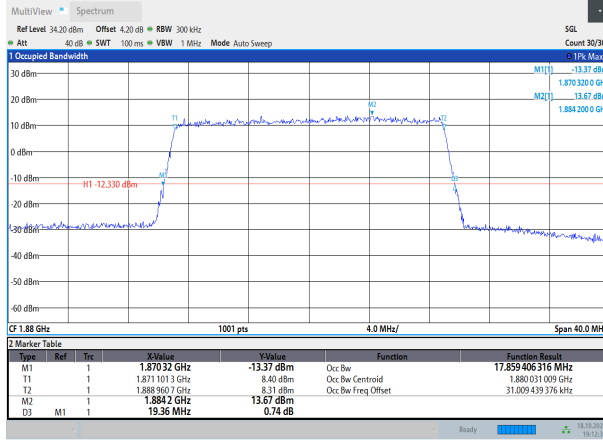


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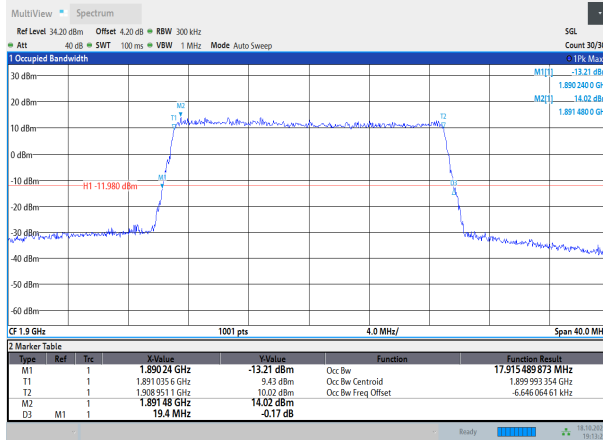
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Band2-20MHz-64QAM-18900-100RB#0



19:12:33 18.10.2022

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



19:13:22 18.10.2022



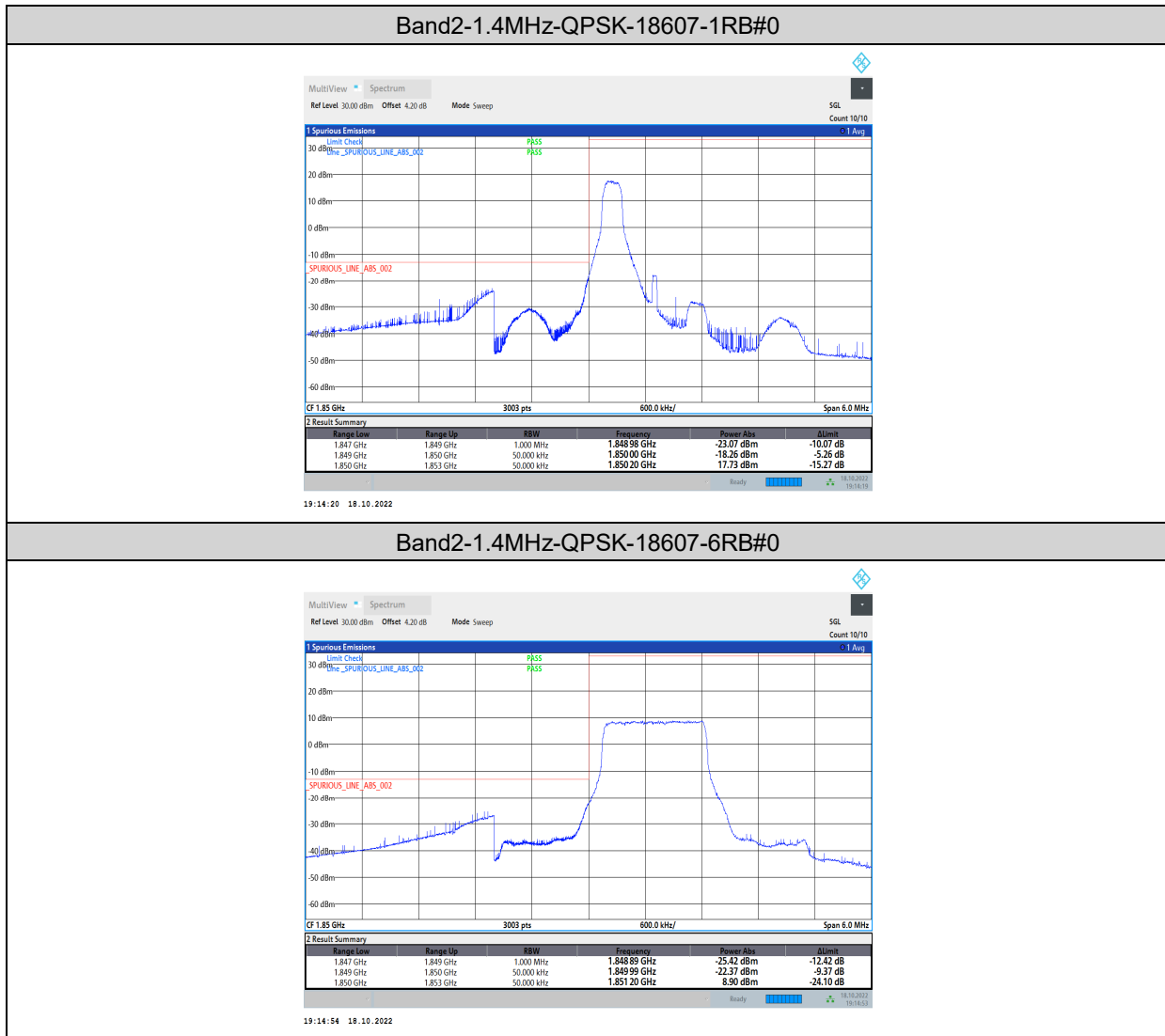
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Band Edge

Test Graphs

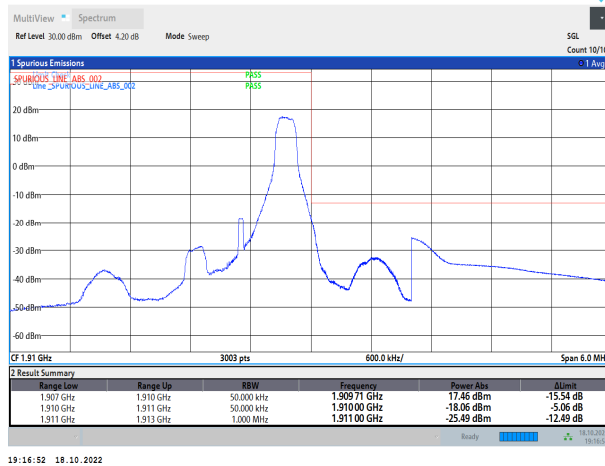


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Band2-1.4MHz-QPSK-19193-1RB#5



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

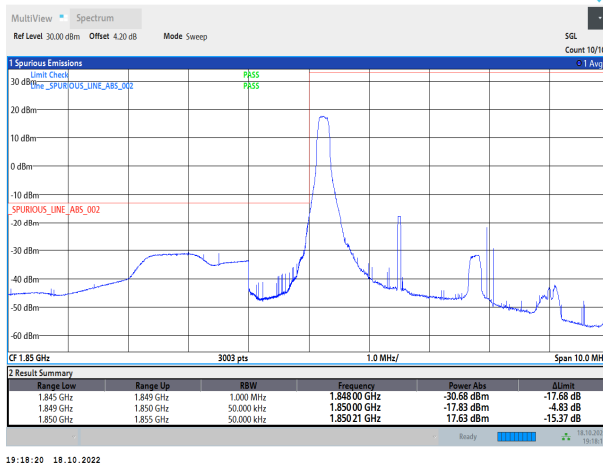


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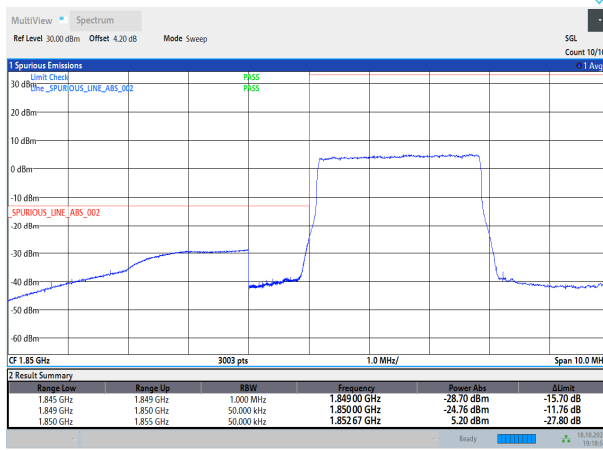
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Band2-3MHz-QPSK-18615-1RB#0



19:18:20 18.10.2022

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



19:18:54 18.10.2022

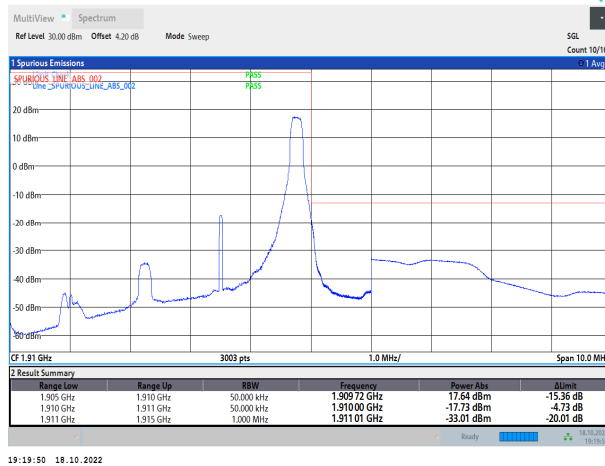


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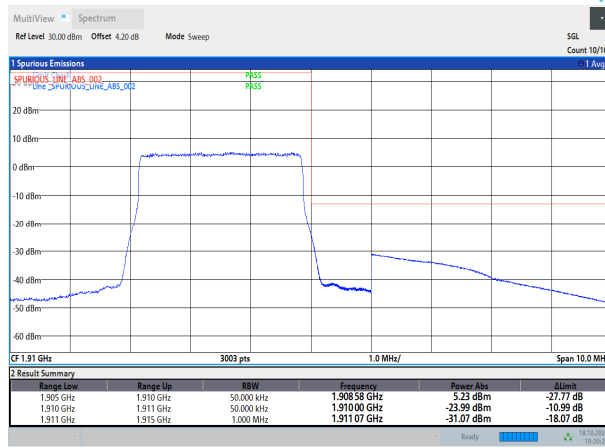
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Band2-3MHz-QPSK-19185-1RB#14



19:19:50 18.10.2022

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



19:20:23 18.10.2022

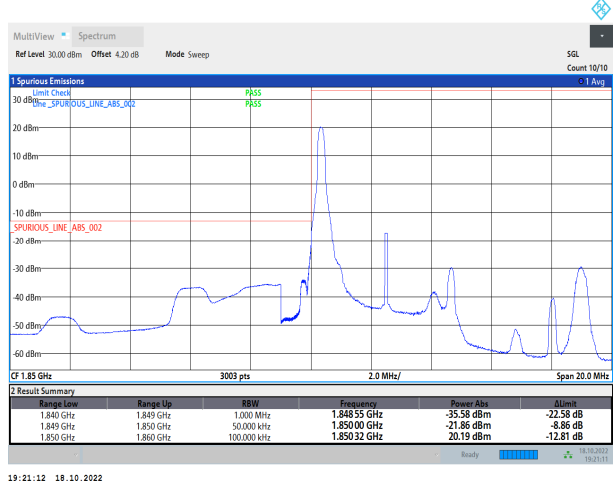


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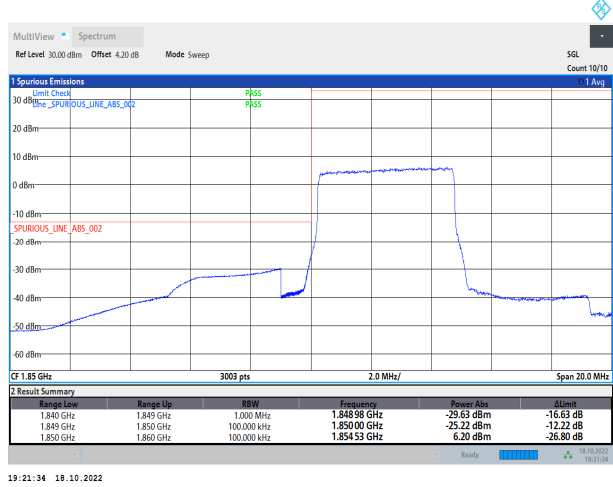
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Band2-5MHz-QPSK-18625-1RB#0



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

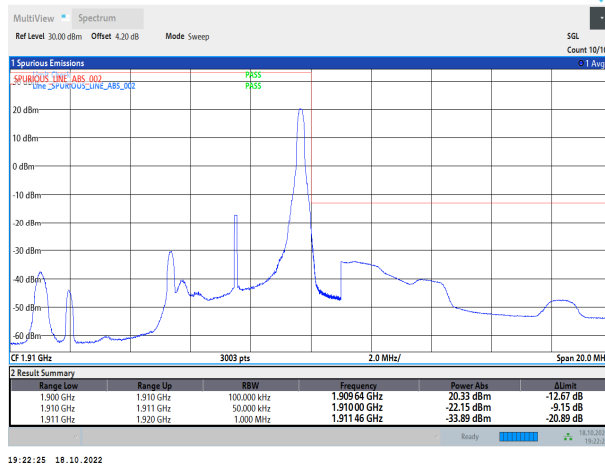


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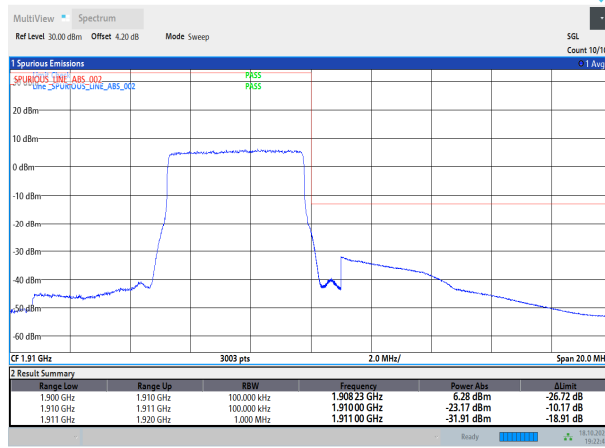
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Band2-5MHz-QPSK-19175-1RB#24



19:22:25 18.10.2022

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



19:22:47 18.10.2022

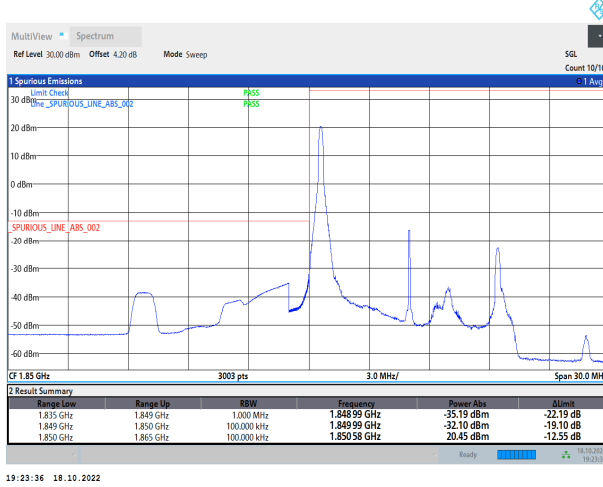


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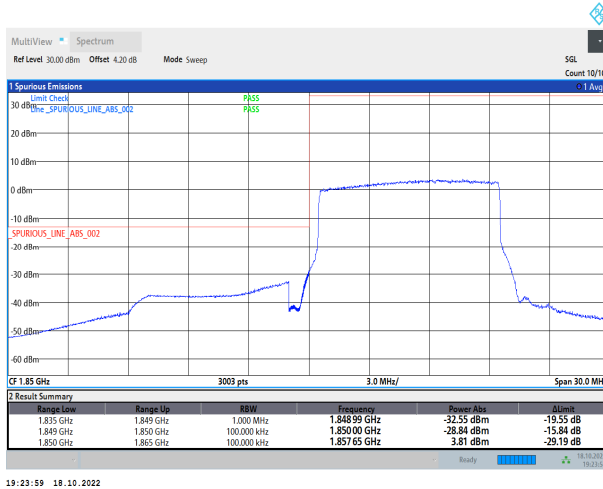
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Band2-10MHz-QPSK-18650-1RB#0



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

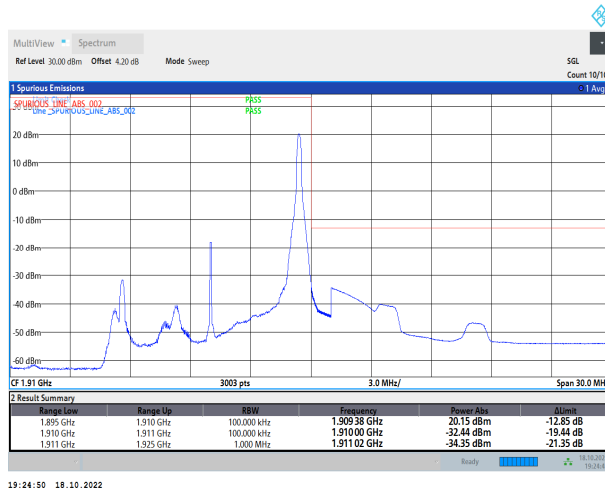


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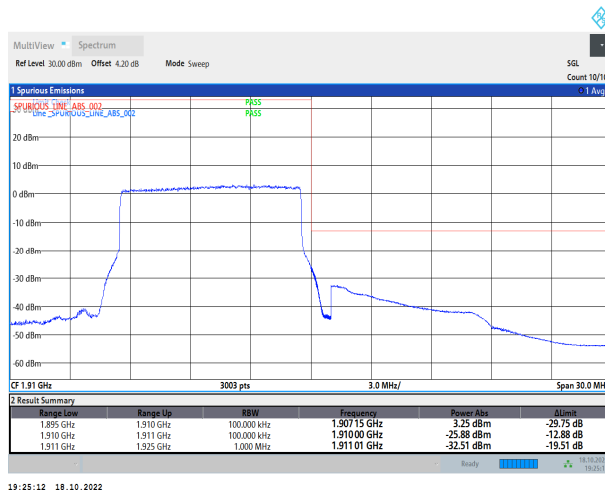
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Band2-10MHz-QPSK-19150-1RB#49



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

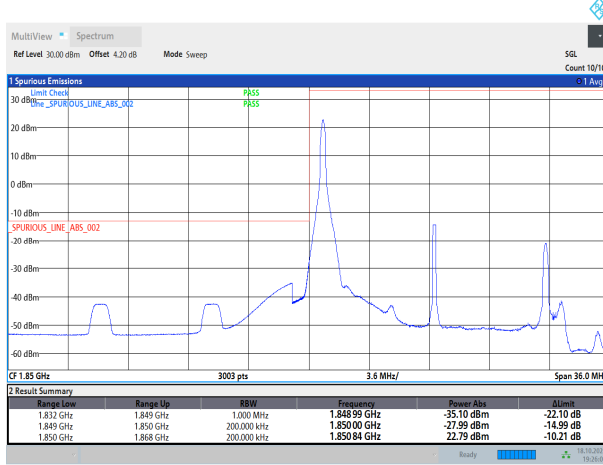


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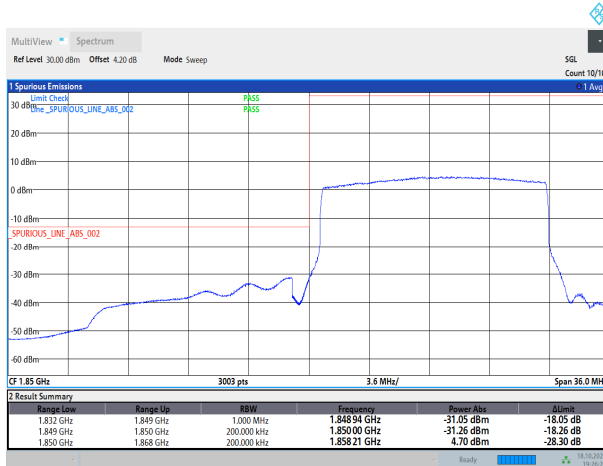
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Band2-15MHz-QPSK-18675-1RB#0



19:26:04 18.10.2022

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



19:26:26 18.10.2022

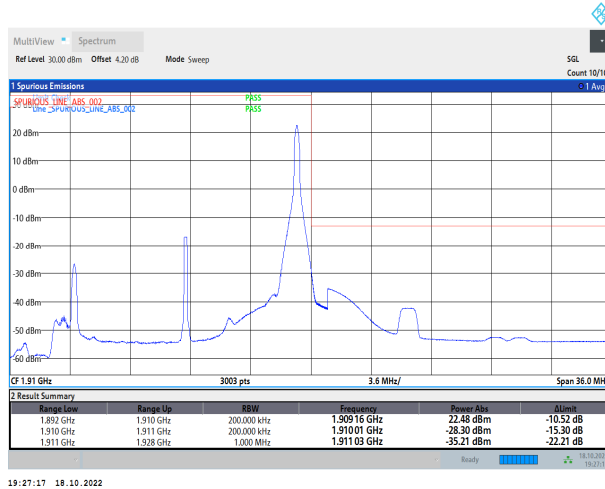


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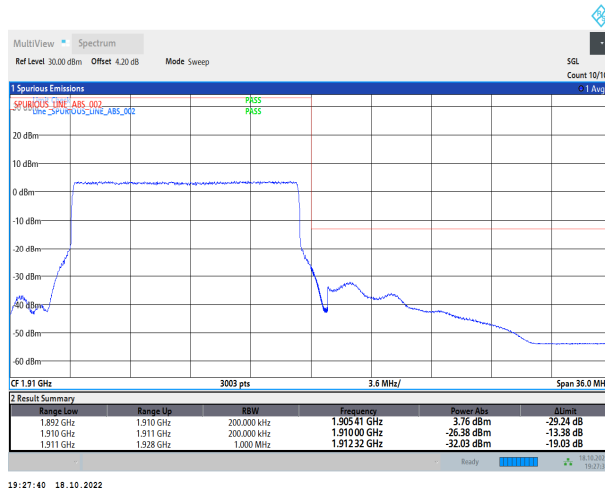
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Band2-15MHz-QPSK-19125-1RB#74



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

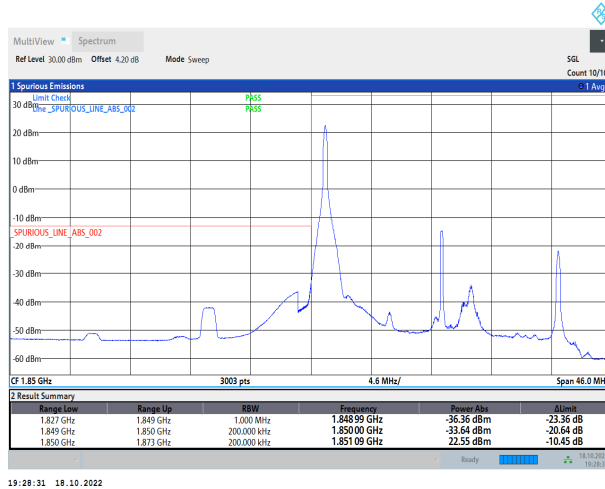


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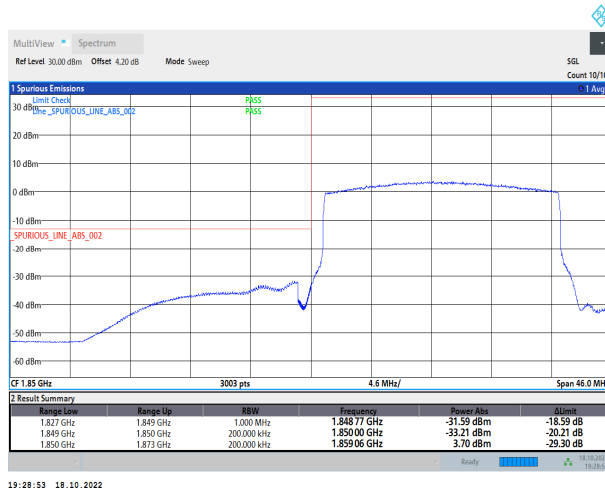
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Band2-20MHz-QPSK-18700-1RB#0



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

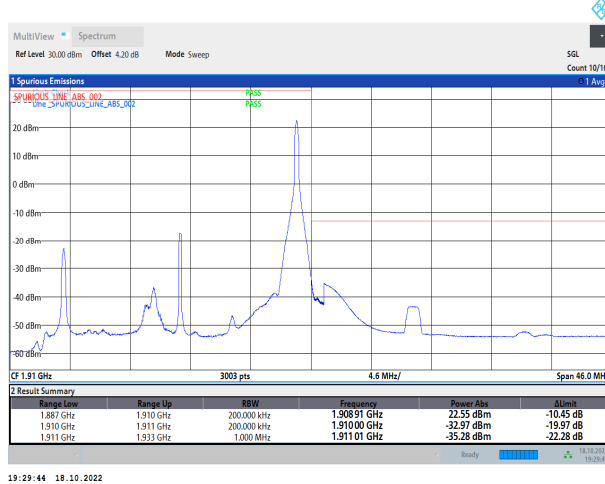


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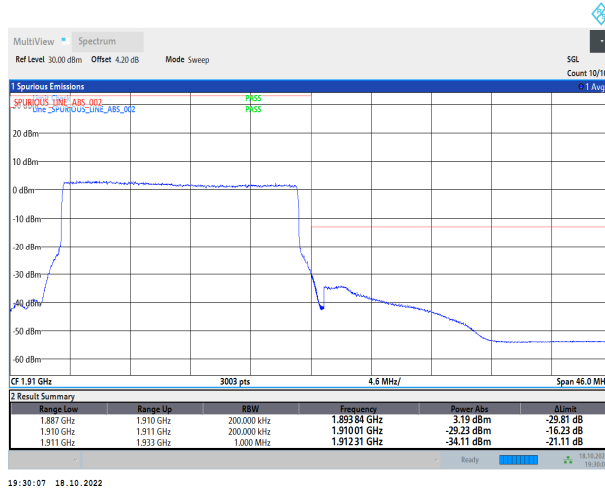
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Band2-20MHz-QPSK-19100-1RB#99



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



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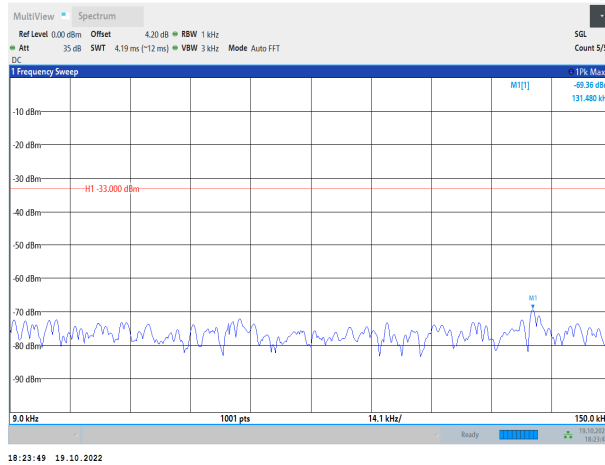
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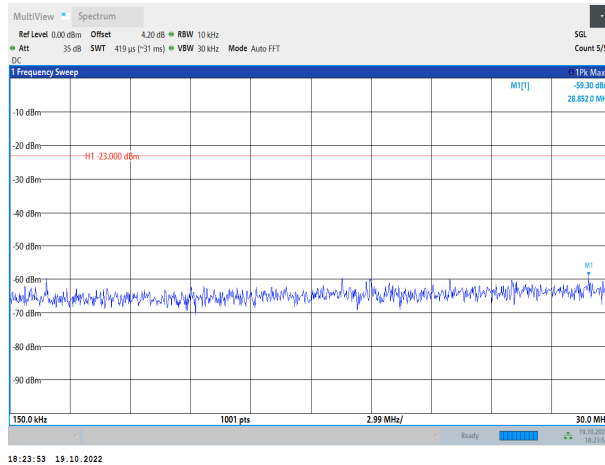
Conducted Spurious Emission

Test Graphs

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



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

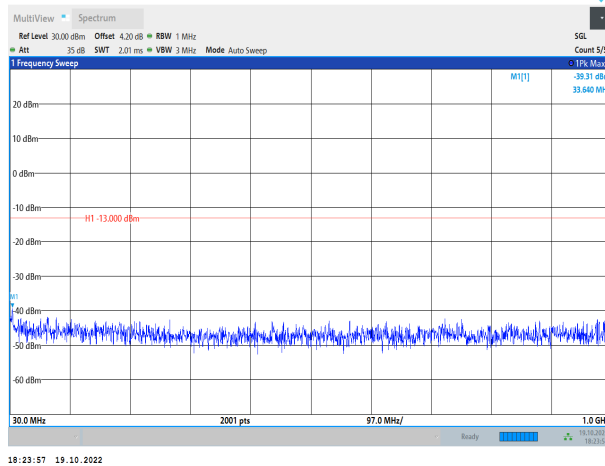


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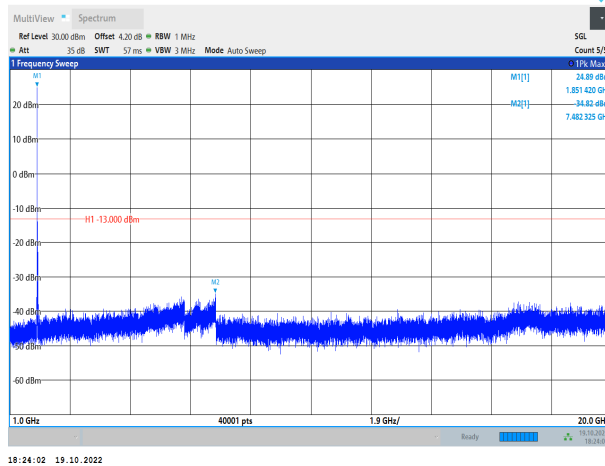
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



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

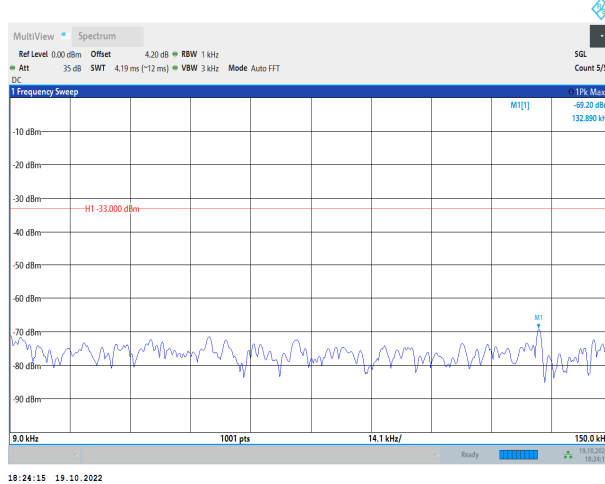


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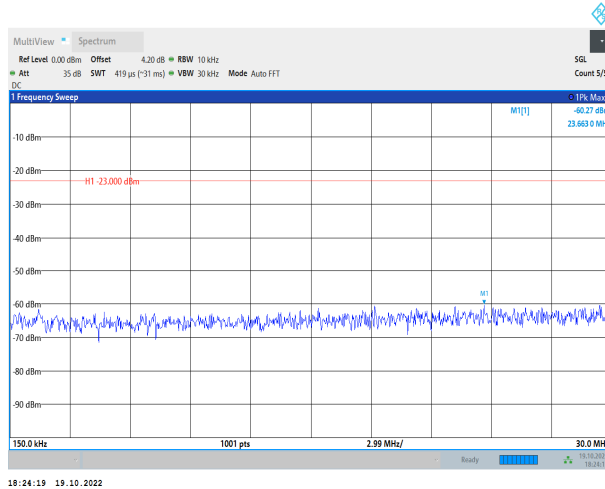
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz

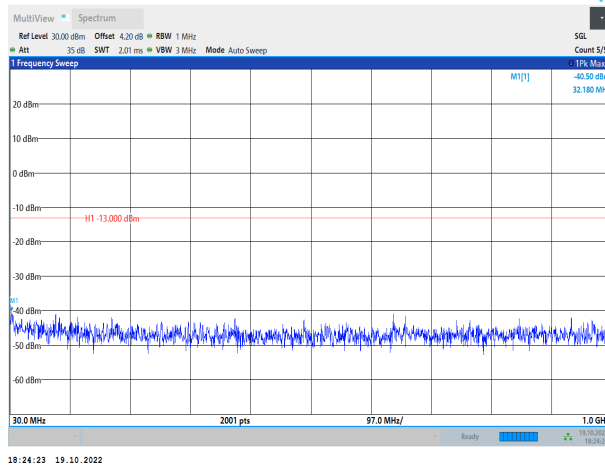


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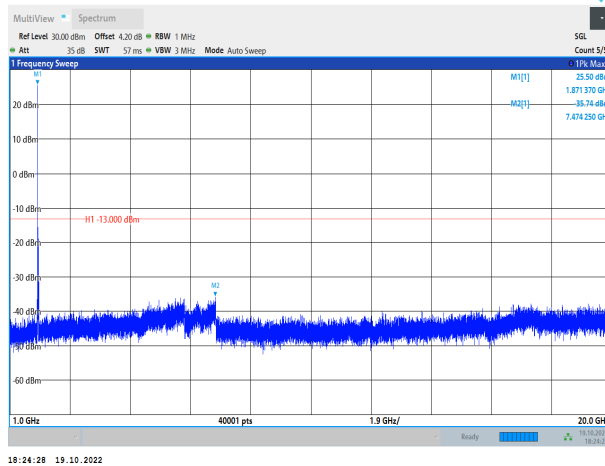
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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



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

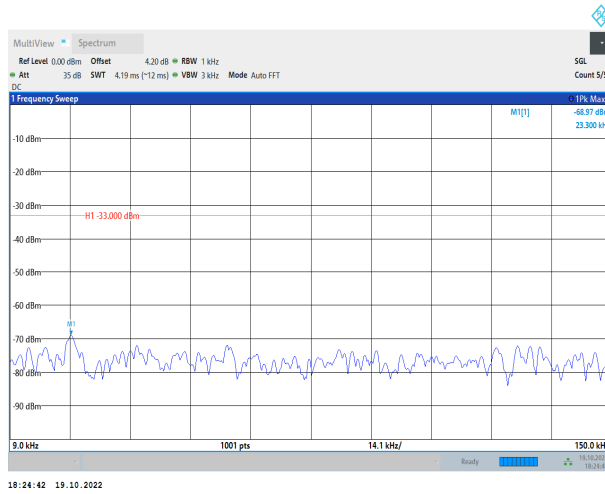


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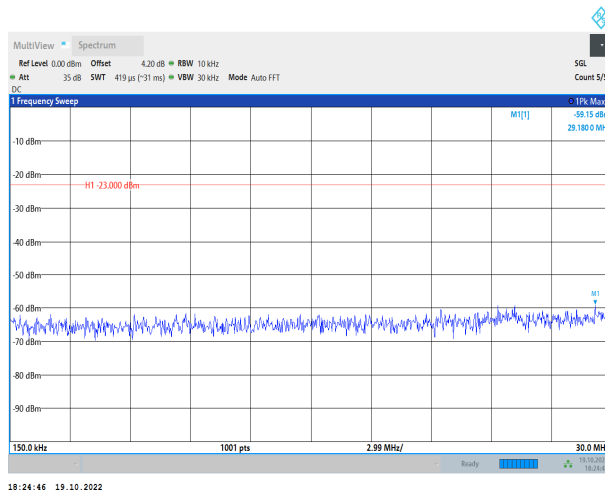
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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



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

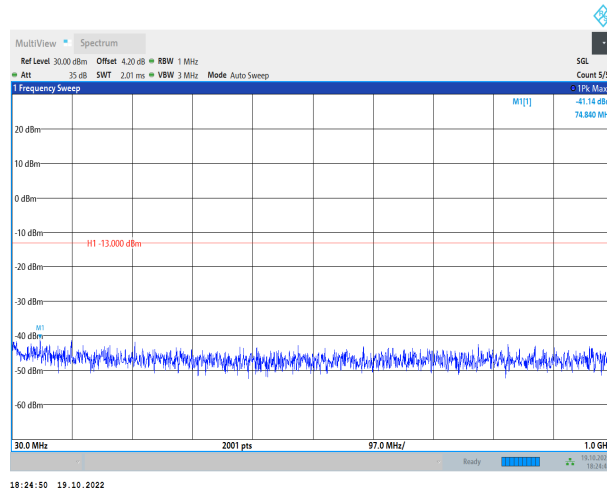


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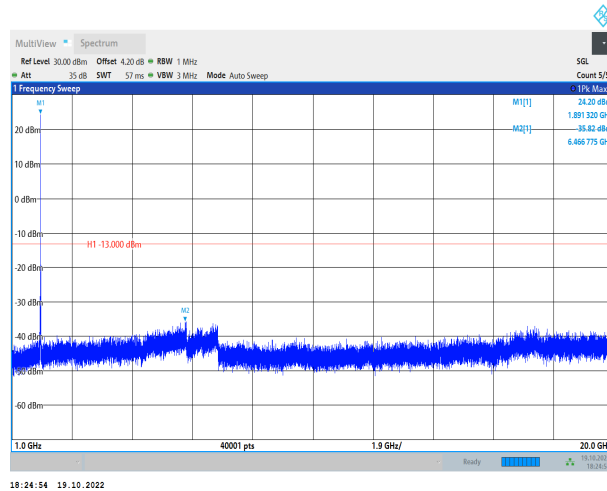
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band2_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702	56.56	-45.51	29.98	-54.23	-13.00	41.23	135	28	Horizontal
2	5553.2700	48.09	-45.15	32.97	-59.35	-13.00	46.35	165	360	Horizontal
3	7404.3600	45.27	-43.40	36.49	-56.90	-13.00	43.90	185	252	Horizontal
4	9255.4500	36.40	-40.23	38.38	-60.71	-13.00	47.71	146	360	Horizontal
5	11106.5400	32.84	-37.93	39.09	-61.26	-13.00	48.26	129	132	Horizontal
6	12957.6300	32.44	-37.24	39.79	-60.27	-13.00	47.27	166	359	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	60.90	-45.51	29.98	-49.89	-13.00	36.89	152	360	Vertical
2	5553.2700	51.41	-45.15	32.97	-56.03	-13.00	43.03	163	313	Vertical
3	7404.3600	44.34	-43.40	36.49	-57.83	-13.00	44.83	142	14	Vertical
4	9255.4500	37.46	-40.23	38.38	-59.65	-13.00	46.65	132	208	Vertical
5	11106.5400	31.70	-37.93	39.09	-62.40	-13.00	49.40	199	359	Vertical
6	12957.6300	31.71	-37.24	39.79	-61.00	-13.00	48.00	155	73	Vertical



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Test Band = LTE Band2_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	54.81	-45.68	30.12	-56.01	-13.00	43.01	185	313	Horizontal
2	5613.2700	47.61	-45.04	33.07	-59.62	-13.00	46.62	196	270	Horizontal
3	7484.3600	43.78	-43.18	36.45	-58.21	-13.00	45.21	145	150	Horizontal
4	9355.4500	37.98	-40.00	38.46	-58.83	-13.00	45.83	163	360	Horizontal
5	11226.5400	34.57	-37.40	39.11	-58.98	-13.00	45.98	233	208	Horizontal
6	13097.6300	30.42	-37.01	39.87	-61.97	-13.00	48.97	133	239	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.1800	60.84	-45.68	30.12	-49.98	-13.00	36.98	178	16	Vertical
2	5613.2700	52.94	-45.04	33.07	-54.29	-13.00	41.29	195	313	Vertical
3	7484.3600	44.75	-43.18	36.45	-57.24	-13.00	44.24	142	282	Vertical
4	9355.4500	37.30	-40.00	38.46	-59.51	-13.00	46.51	166	164	Vertical
5	11226.5400	34.11	-37.40	39.11	-59.44	-13.00	46.44	155	104	Vertical
6	13097.6300	30.04	-37.01	39.87	-62.35	-13.00	49.35	109	31	Vertical



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Test Band = LTE Band2_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.1800	52.36	-45.85	30.27	-58.48	-13.00	45.48	185	9	Horizontal
2	5673.2700	48.09	-44.91	33.29	-58.79	-13.00	45.79	194	62	Horizontal
3	7564.3600	44.03	-43.00	36.41	-57.83	-13.00	44.83	175	31	Horizontal
4	9455.4500	40.07	-40.05	38.48	-56.77	-13.00	43.77	133	77	Horizontal
5	11346.5400	33.87	-37.40	39.11	-59.68	-13.00	46.68	126	286	Horizontal
6	13237.6300	31.01	-37.08	39.96	-61.36	-13.00	48.36	142	62	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.1800	57.47	-45.85	30.27	-53.37	-13.00	40.37	165	0	Vertical
2	5673.2700	47.92	-44.91	33.29	-58.96	-13.00	45.96	184	317	Vertical
3	7564.3600	44.39	-43.00	36.41	-57.47	-13.00	44.47	195	303	Vertical
4	9455.4500	39.63	-40.05	38.48	-57.21	-13.00	44.21	163	139	Vertical
5	11346.5400	34.35	-37.40	39.11	-59.20	-13.00	46.20	130	244	Vertical
6	13237.6300	31.09	-37.08	39.96	-61.28	-13.00	48.28	178	10	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) - Pre-amplifier (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	-4.70	-0.002500	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-5.10	-0.002713	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-4.60	-0.002447	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-4.40	-0.002340	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-4.70	-0.002500	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-5.10	-0.002713	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-4.90	-0.002606	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-4.40	-0.002340	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-4.00	-0.002128	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-3.80	-0.002021	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-4.60	-0.002447	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-2.60	-0.001383	PASS

---End of Attachment---



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