

Report No.: SEWM2307000235RG01

Rev.: 01

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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	22.78	24.21	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.85	24.28	33.00	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.91	24.34	33.00	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	22.08	23.51	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	23.02	24.45	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	23.11	24.54	33.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.07	24.5	33.00	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.27	23.7	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.87	24.3	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.81	24.24	33.00	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.61	24.04	33.00	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.88	23.31	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.31	23.74	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.21	23.64	33.00	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.33	23.76	33.00	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	21.17	22.6	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.38	23.81	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.51	23.94	33.00	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.39	23.82	33.00	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.32	22.75	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.28	23.71	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	22.17	23.6	33.00	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.95	23.38	33.00	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	21.03	22.46	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.68	24.11	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.91	24.34	33.00	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.87	24.3	33.00	PASS



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Band2	3MHz	QPSK	18615	15RB#0	21.92	23.35	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#0	23.02	24.45	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.17	24.6	33.00	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.02	24.45	33.00	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.11	23.54	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.91	24.34	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.87	24.3	33.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.41	23.84	33.00	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.91	23.34	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.27	23.7	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.09	23.52	33.00	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.11	23.54	33.00	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.17	22.6	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.32	23.75	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.68	24.11	33.00	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.27	23.7	33.00	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.35	22.78	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.26	23.69	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#8	22.18	23.61	33.00	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.72	23.15	33.00	PASS
Band2	3MHz	16QAM	19185	15RB#0	21.01	22.44	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#0	23.02	24.45	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.17	24.6	33.00	PASS
Band2	5MHz	QPSK	18625	1RB#24	23.11	24.54	33.00	PASS
Band2	5MHz	QPSK	18625	25RB#0	22.29	23.72	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#0	23.32	24.75	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.27	24.7	33.00	PASS
Band2	5MHz	QPSK	18900	1RB#24	23.19	24.62	33.00	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.32	23.75	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.91	24.34	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.21	24.64	33.00	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.81	24.24	33.00	PASS



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Band2	5MHz	QPSK	19175	25RB#0	22.19	23.62	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#0	22.41	23.84	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.36	23.79	33.00	PASS
Band2	5MHz	16QAM	18625	1RB#24	22.47	23.9	33.00	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.32	22.75	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.73	24.16	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.61	24.04	33.00	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.42	23.85	33.00	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.45	22.88	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.42	23.85	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.55	23.98	33.00	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.08	23.51	33.00	PASS
Band2	5MHz	16QAM	19175	25RB#0	21.33	22.76	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.91	24.34	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#24	23.08	24.51	33.00	PASS
Band2	10MHz	QPSK	18650	1RB#49	23.12	24.55	33.00	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.21	23.64	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#0	23.17	24.6	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.09	24.52	33.00	PASS
Band2	10MHz	QPSK	18900	1RB#49	23.11	24.54	33.00	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.42	23.85	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.18	24.61	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.09	24.52	33.00	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.17	24.6	33.00	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.51	23.94	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#0	22.53	23.96	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.72	24.15	33.00	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.32	23.75	33.00	PASS
Band2	10MHz	16QAM	18650	27RB#0	21.67	23.1	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.8	24.23	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.59	24.02	33.00	PASS
Band2	10MHz	16QAM	18900	1RB#49	22.61	24.04	33.00	PASS



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Band2	10MHz	16QAM	18900	27RB#0	21.61	23.04	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.57	24	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.72	24.15	33.00	PASS
Band2	10MHz	16QAM	19150	1RB#49	22.52	23.95	33.00	PASS
Band2	10MHz	16QAM	19150	27RB#0	21.77	23.2	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.97	24.4	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.08	24.51	33.00	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.11	24.54	33.00	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.28	23.71	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.33	24.76	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.17	24.6	33.00	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.09	24.52	33.00	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.51	23.94	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.28	24.71	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.32	24.75	33.00	PASS
Band2	15MHz	QPSK	19125	1RB#74	23.31	24.74	33.00	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.57	24	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.31	23.74	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.49	23.92	33.00	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.42	23.85	33.00	PASS
Band2	15MHz	16QAM	18675	27RB#0	21.38	22.81	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.41	23.84	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.49	23.92	33.00	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.42	23.85	33.00	PASS
Band2	15MHz	16QAM	18900	27RB#0	21.51	22.94	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.62	24.05	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.77	24.2	33.00	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.97	23.4	33.00	PASS
Band2	15MHz	16QAM	19125	27RB#0	21.53	22.96	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#0	23.09	24.52	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.33	24.76	33.00	PASS
Band2	20MHz	QPSK	18700	1RB#99	23.41	24.84	33.00	PASS



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Band2	20MHz	QPSK	18700	100RB#0	22.32	23.75	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.29	24.72	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.14	24.57	33.00	PASS
Band2	20MHz	QPSK	18900	1RB#99	23.18	24.61	33.00	PASS
Band2	20MHz	QPSK	18900	100RB#0	22.42	23.85	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#0	23.32	24.75	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.42	24.85	33.00	PASS
Band2	20MHz	QPSK	19100	1RB#99	23.18	24.61	33.00	PASS
Band2	20MHz	QPSK	19100	100RB#0	22.67	24.1	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#0	22.42	23.85	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.71	24.14	33.00	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.87	24.3	33.00	PASS
Band2	20MHz	16QAM	18700	27RB#0	21.51	22.94	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#0	22.32	23.75	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.51	23.94	33.00	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.33	23.76	33.00	PASS
Band2	20MHz	16QAM	18900	27RB#0	21.52	22.95	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#0	22.67	24.1	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#49	22.61	24.04	33.00	PASS
Band2	20MHz	16QAM	19100	1RB#99	22.54	23.97	33.00	PASS
Band2	20MHz	16QAM	19100	27RB#0	21.47	22.9	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	5.50	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.56	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.40	13	PASS

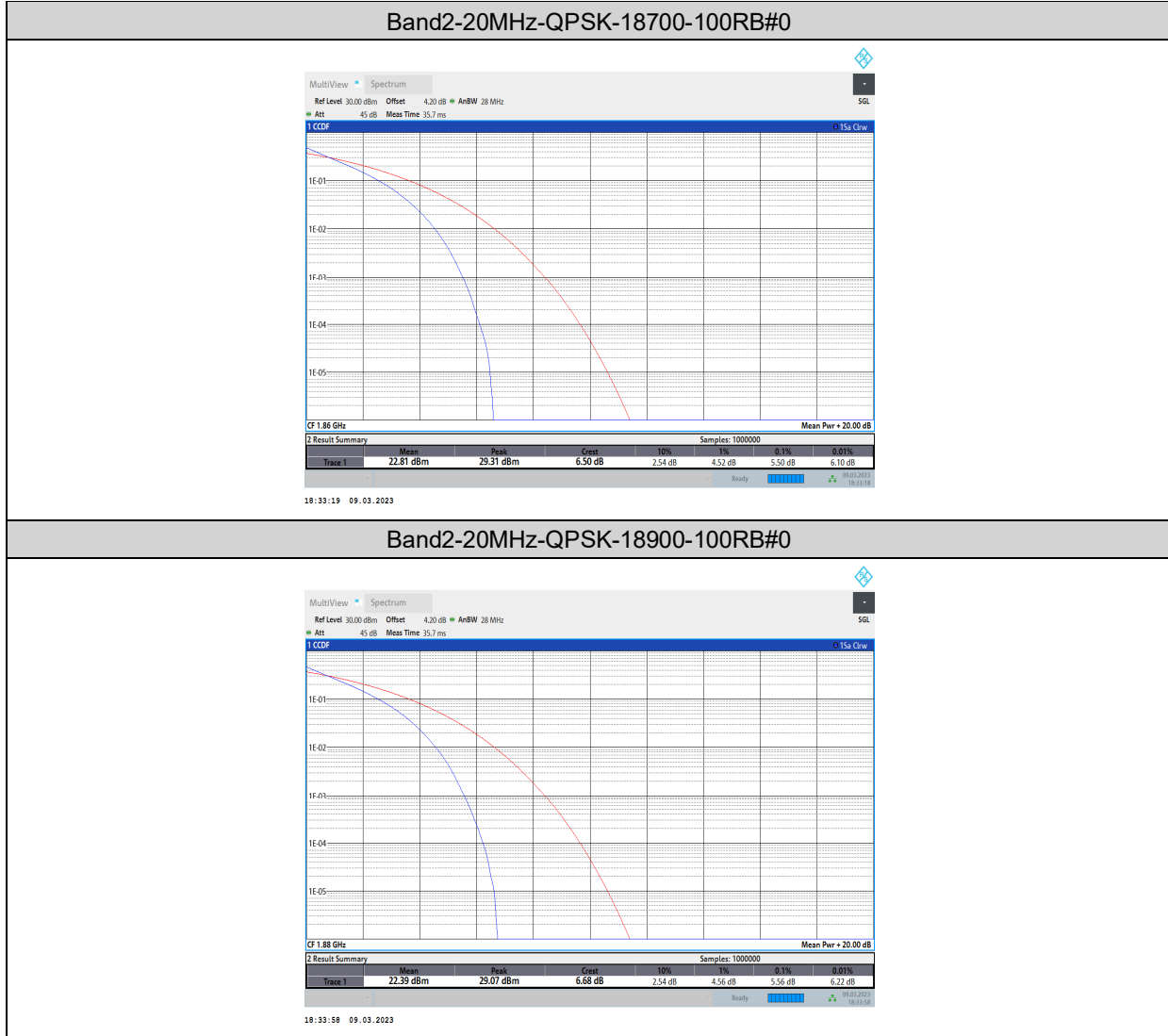


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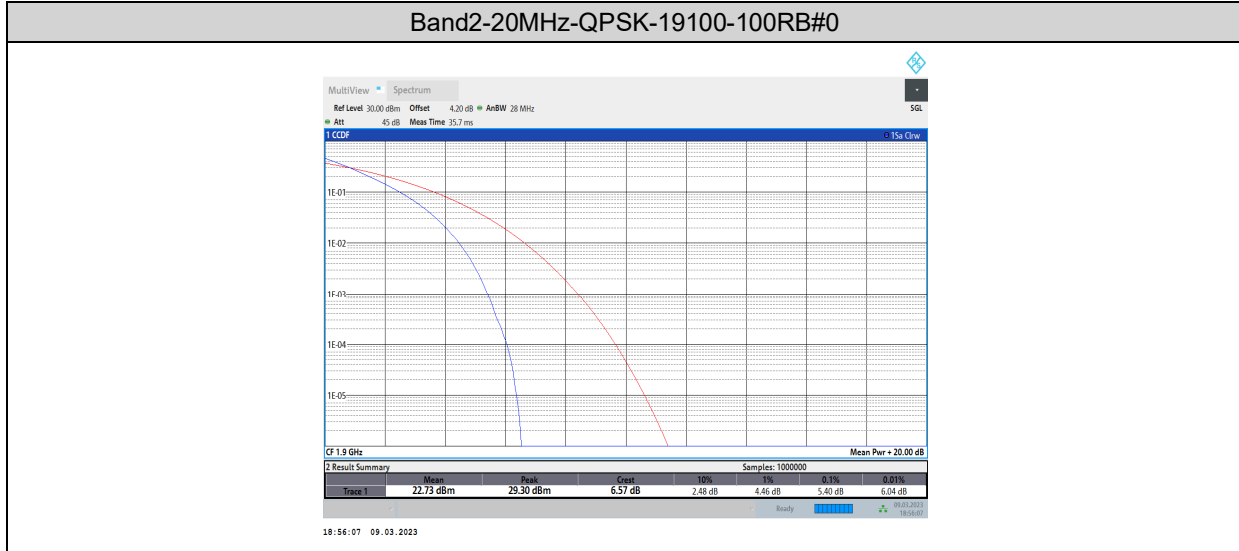
Test Graphs



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	5MHz	QPSK	18900	25RB#0	PASS	PASS
Band2	5MHz	16QAM	18900	25RB#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	1.088	1.30	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.088	1.30	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.088	1.29	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.097	1.31	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.097	1.31	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.096	1.31	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.696	3.02	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.697	3.01	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.694	3.01	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.688	3.01	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.69	3.02	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.689	3.02	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.47	4.92	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.472	4.93	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.469	4.93	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.468	4.97	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.465	5.01	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.462	4.93	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.937	9.90	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.937	9.90	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.922	9.86	PASS
Band2	10MHz	16QAM	18650	27RB#0	4.878	5.94	PASS
Band2	10MHz	16QAM	18900	27RB#0	4.878	5.90	PASS
Band2	10MHz	16QAM	19150	27RB#0	4.876	5.82	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.509	15.27	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.492	15.33	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.509	15.18	PASS
Band2	15MHz	16QAM	18675	27RB#0	5.234	6.87	PASS
Band2	15MHz	16QAM	18900	27RB#0	5.213	6.81	PASS
Band2	15MHz	16QAM	19125	27RB#0	5.226	6.90	PASS
Band2	20MHz	QPSK	18700	100RB#0	17.957	20.00	PASS



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Report No.: SEWM2307000235RG01

Rev.: 01

Page: 13 of 53

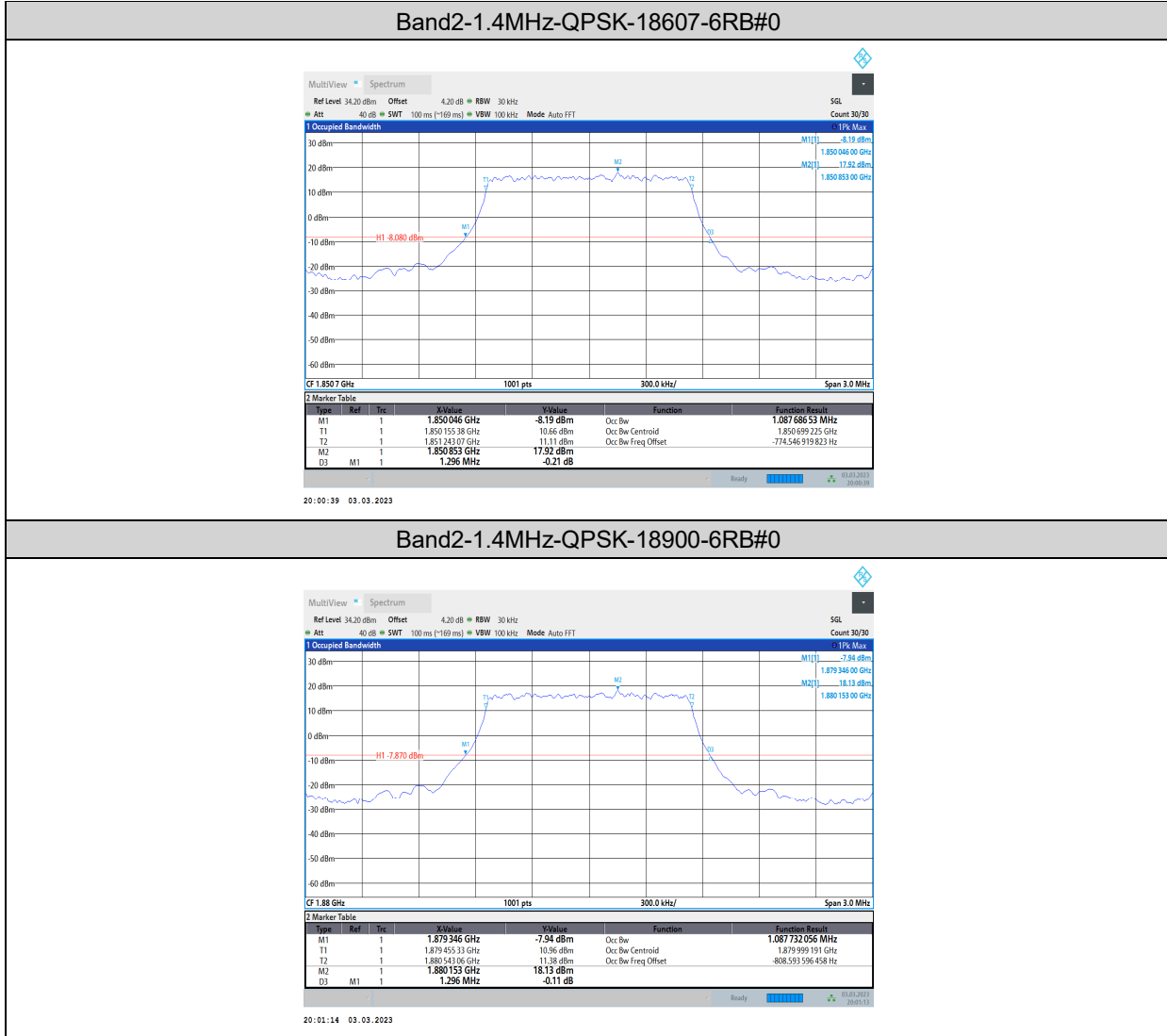
Band2	20MHz	QPSK	18900	100RB#0	17.914	20.08	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.943	19.84	PASS
Band2	20MHz	16QAM	18700	27RB#0	5.28	7.00	PASS
Band2	20MHz	16QAM	18900	27RB#0	5.26	7.4	PASS
Band2	20MHz	16QAM	19100	27RB#0	5.242	6.92	PASS



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Test Graphs

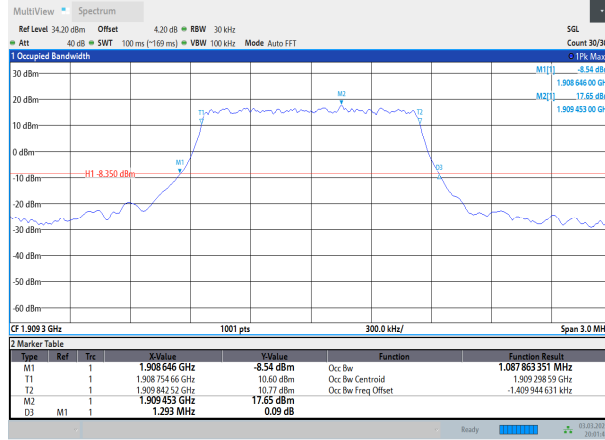


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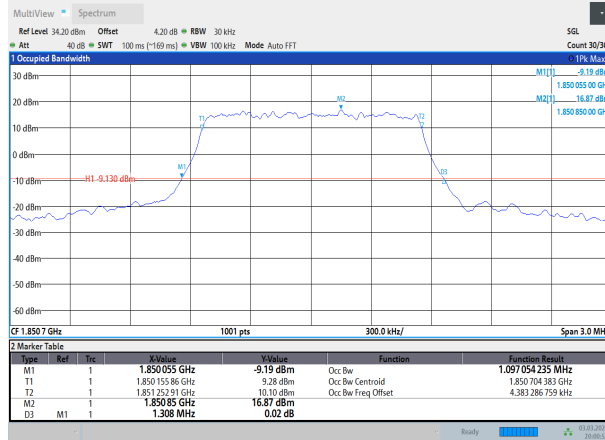
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Band2-1.4MHz-QPSK-19193-6RB#0



20:01:49 03.03.2023

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



20:00:57 03.03.2023

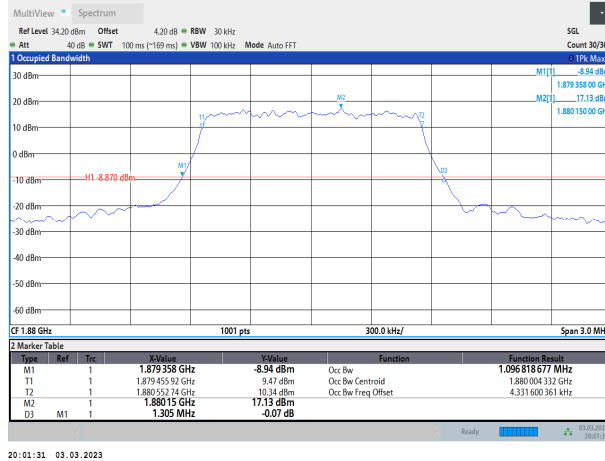


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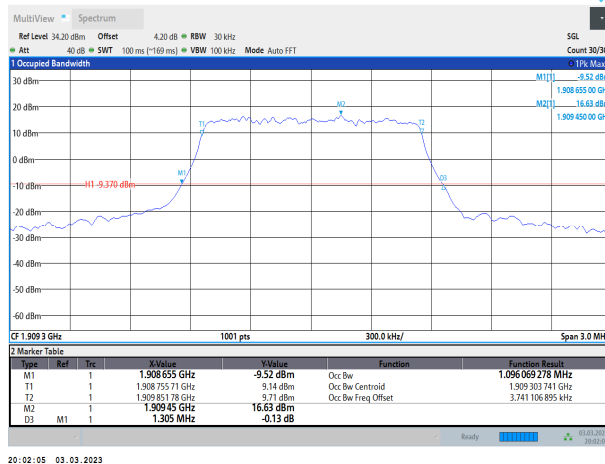
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Band2-1.4MHz-16QAM-18900-6RB#0



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

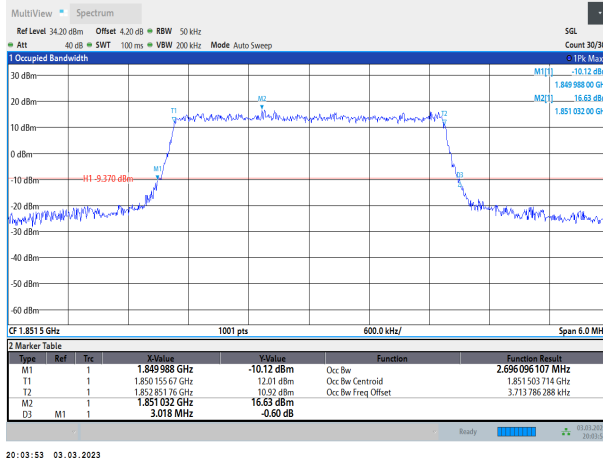


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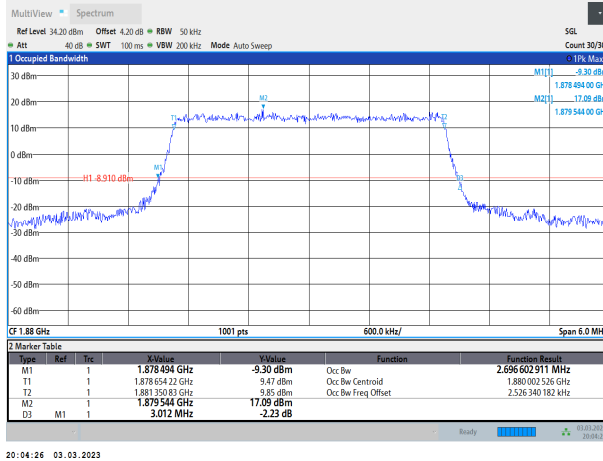
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Band2-3MHz-QPSK-18615-15RB#0



20:03:53 03.03.2023

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



20:04:26 03.03.2023

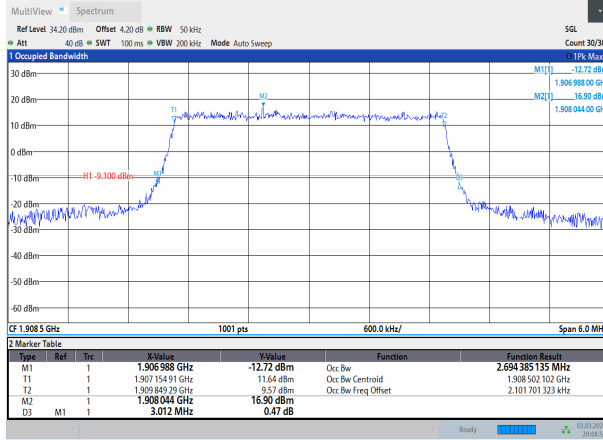


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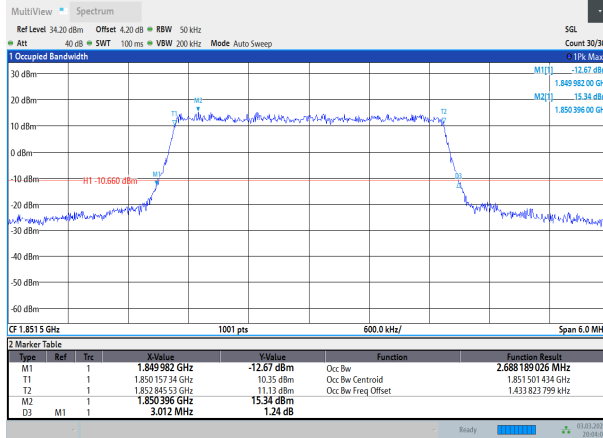
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Band2-3MHz-QPSK-19185-15RB#0



20:04:59 03.03.2023

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



20:04:09 03.03.2023

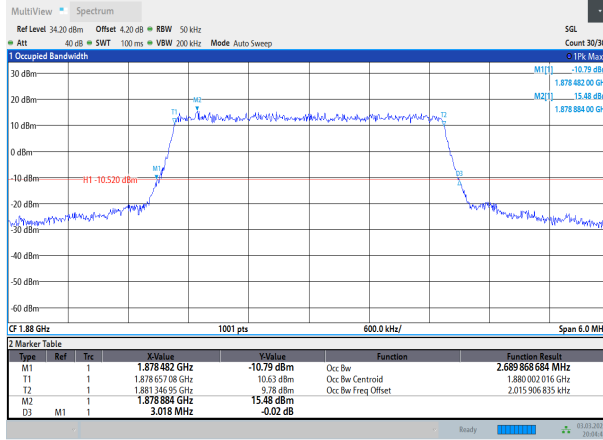


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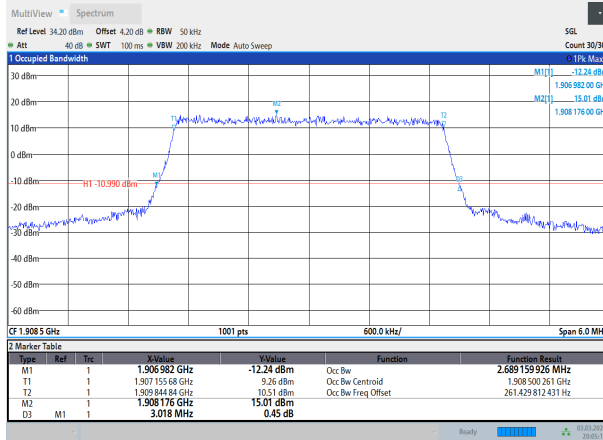
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Band2-3MHz-16QAM-18900-15RB#0



20:04:42 03.03.2023

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



20:05:15 03.03.2023

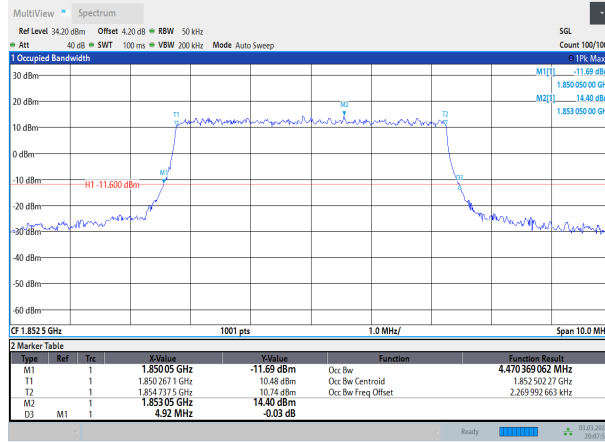


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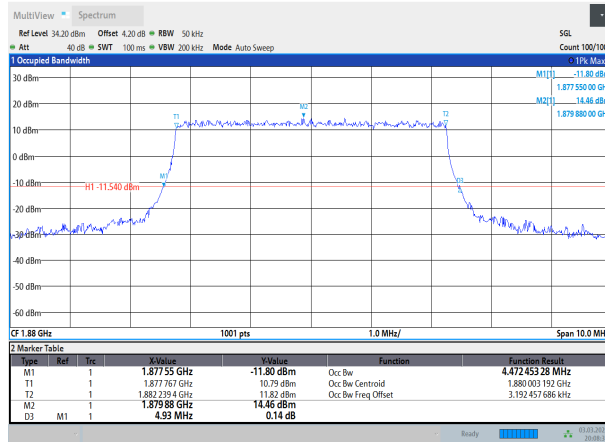
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Band2-5MHz-QPSK-18625-25RB#0



20:07:52 03.03.2023

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



20:08:39 03.03.2023

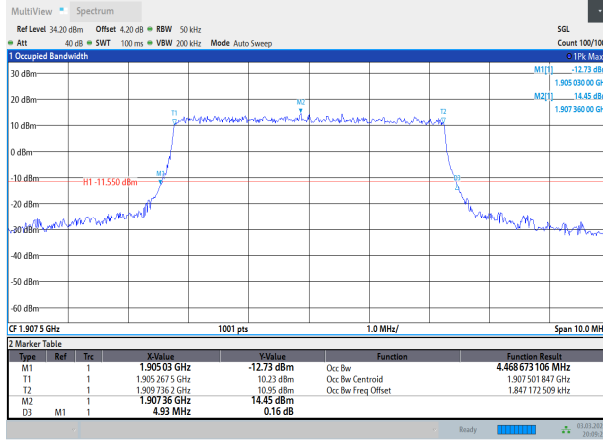


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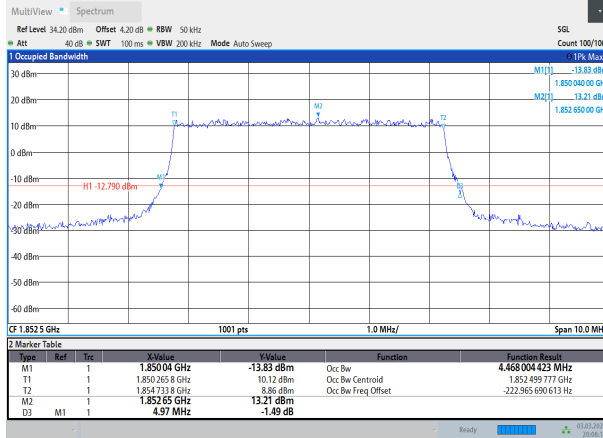
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Band2-5MHz-QPSK-19175-25RB#0



20:09:25 03.03.2023

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



20:08:15 03.03.2023

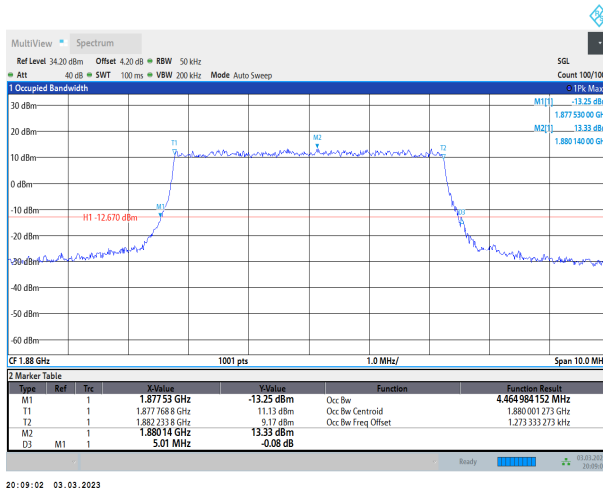


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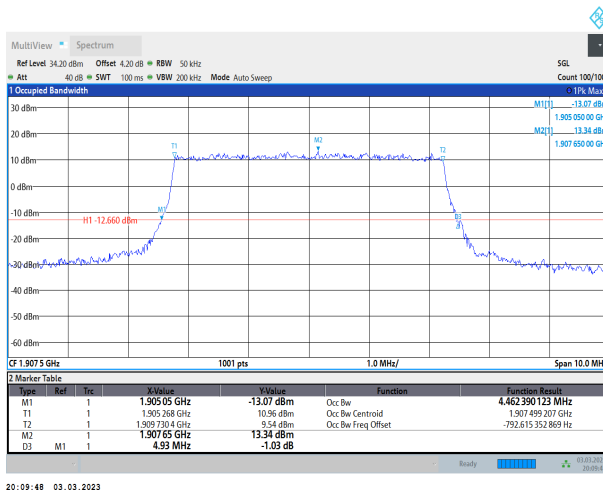
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Band2-5MHz-16QAM-18900-25RB#0



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

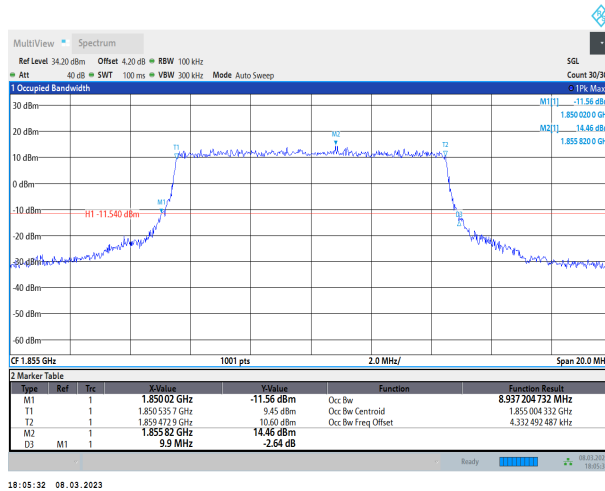


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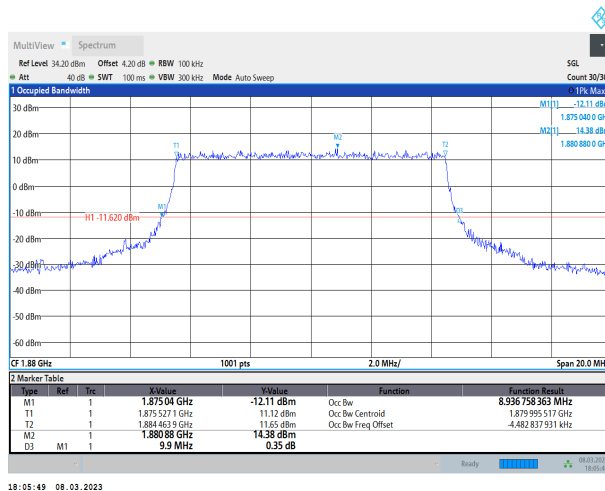
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Band2-10MHz-QPSK-18650-50RB#0



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

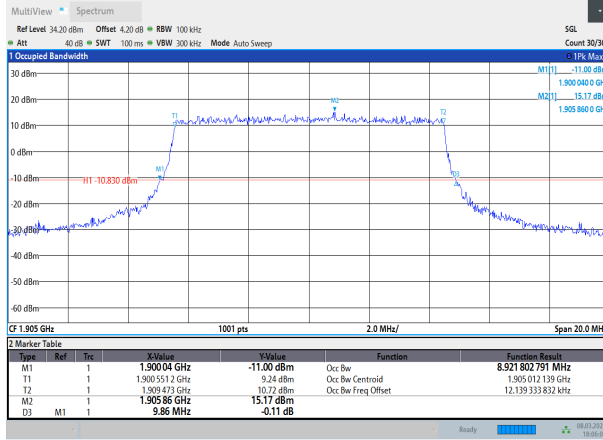


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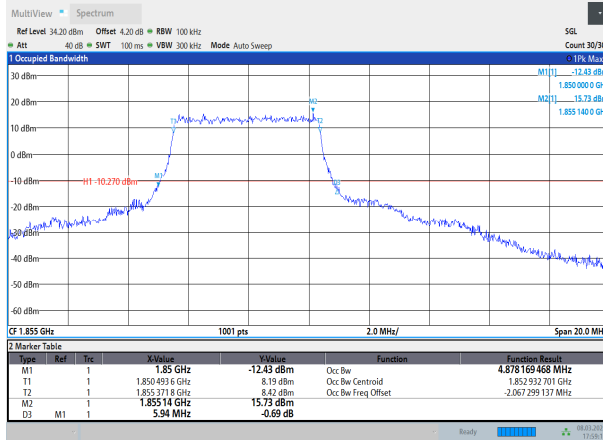
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Band2-10MHz-QPSK-19150-50RB#0



18:04:05 08.03.2023

Band2-10MHz-16QAM-18650-27RB#0



17:59:20 08.03.2023

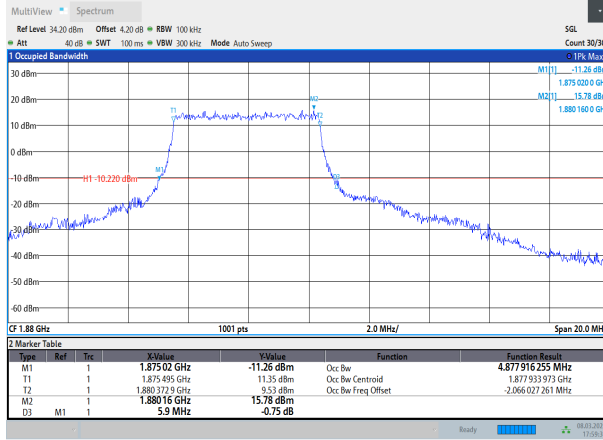


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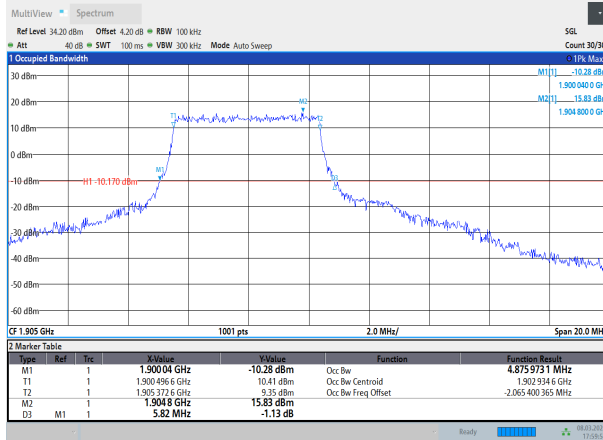
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Band2-10MHz-16QAM-18900-27RB#0



17:59:37 08.03.2023

Band2-10MHz-16QAM-19150-27RB#0



17:59:53 08.03.2023

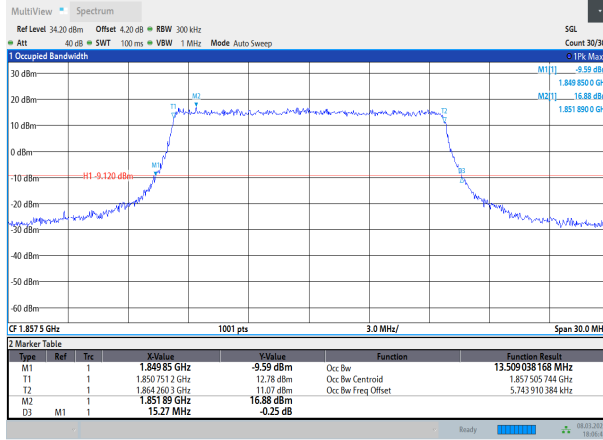


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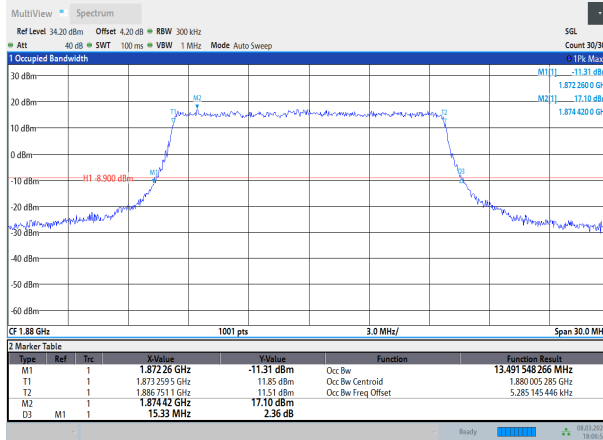
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Band2-15MHz-QPSK-18675-75RB#0



18:06:42 08.03.2023

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



18:06:58 08.03.2023

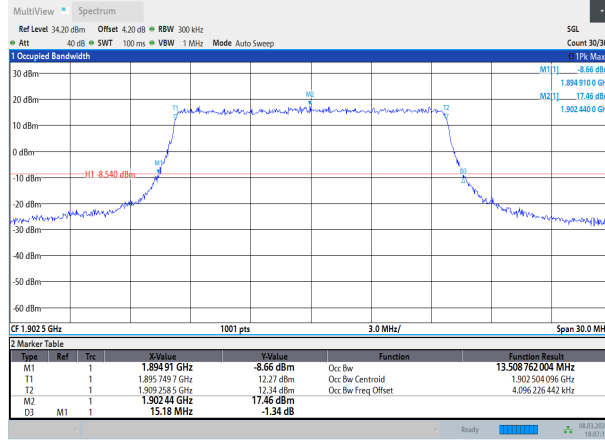


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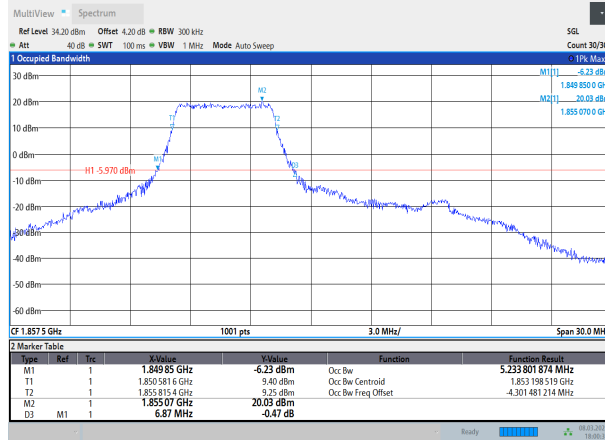
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Band2-15MHz-QPSK-19125-75RB#0



18:07:14 08.03.2023

Band2-15MHz-16QAM-18675-27RB#0



18:00:30 08.03.2023

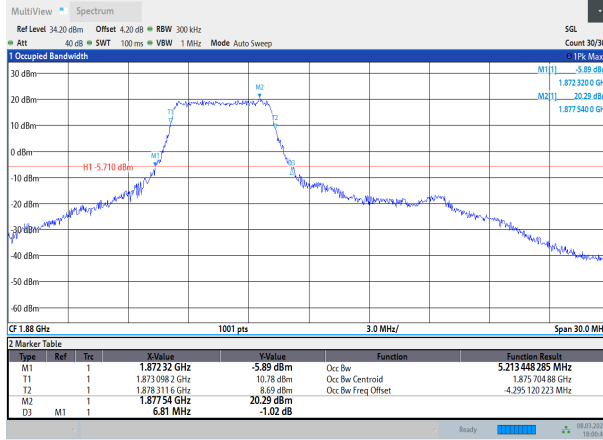


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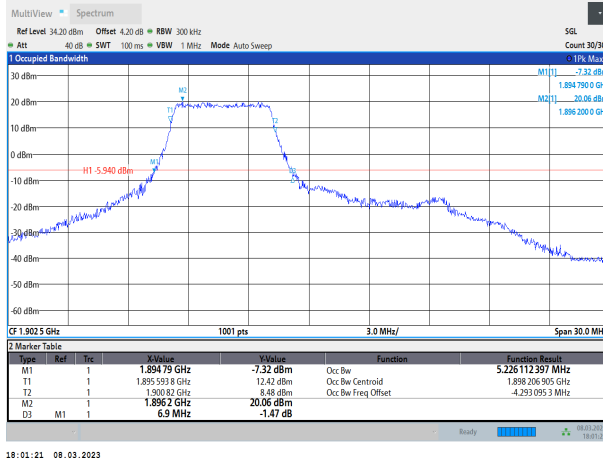
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Band2-15MHz-16QAM-18900-27RB#0



Band2-15MHz-16QAM-19125-27RB#0

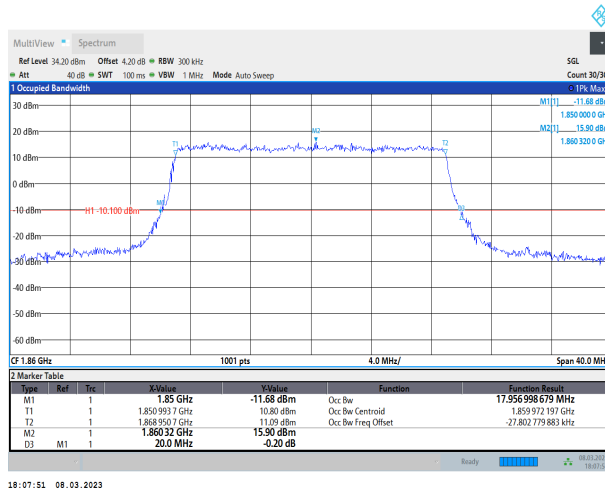


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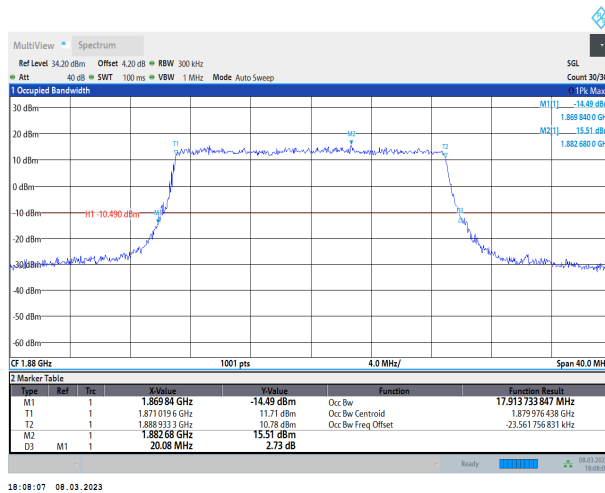
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Band2-20MHz-QPSK-18700-100RB#0



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

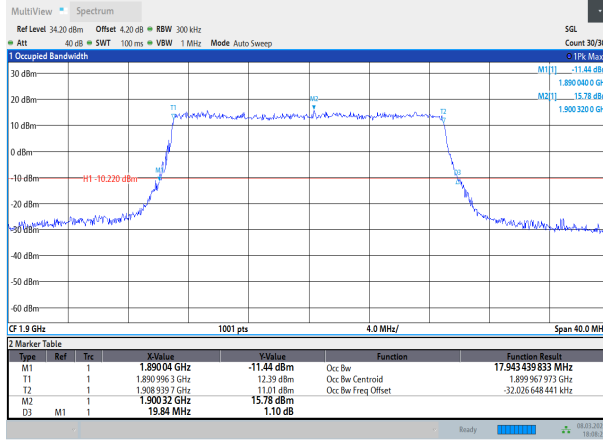


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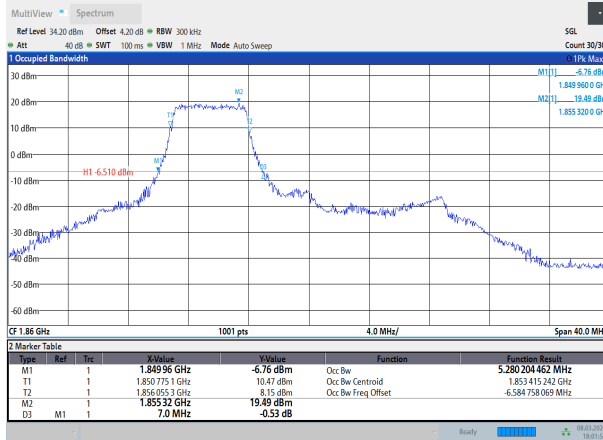
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Band2-20MHz-QPSK-19100-100RB#0



18:08:24 08.03.2023

Band2-20MHz-16QAM-18700-27RB#0



18:01:58 08.03.2023

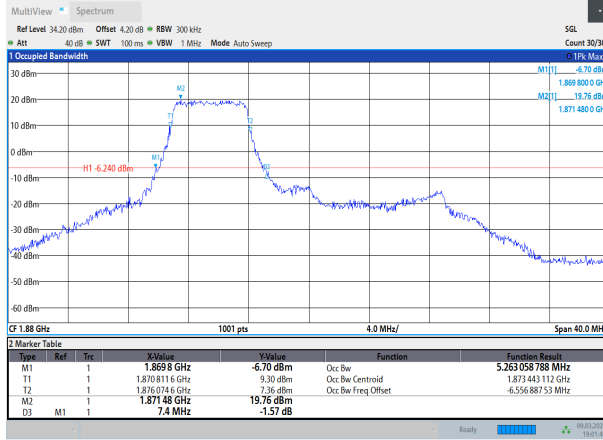


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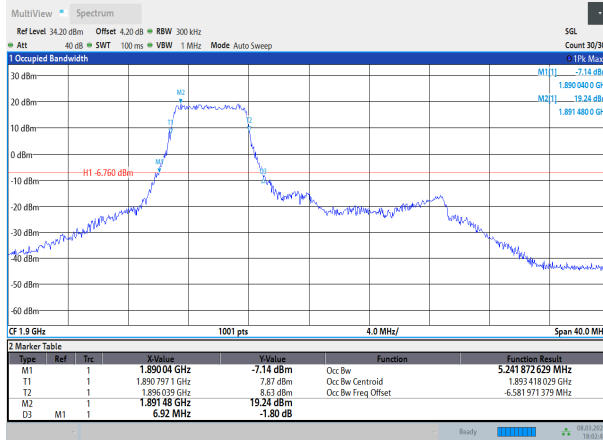
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Band2-20MHz-16QAM-18900-27RB#0



19:01:47 09.03.2023

Band2-20MHz-16QAM-19100-27RB#0



18:02:50 09.03.2023



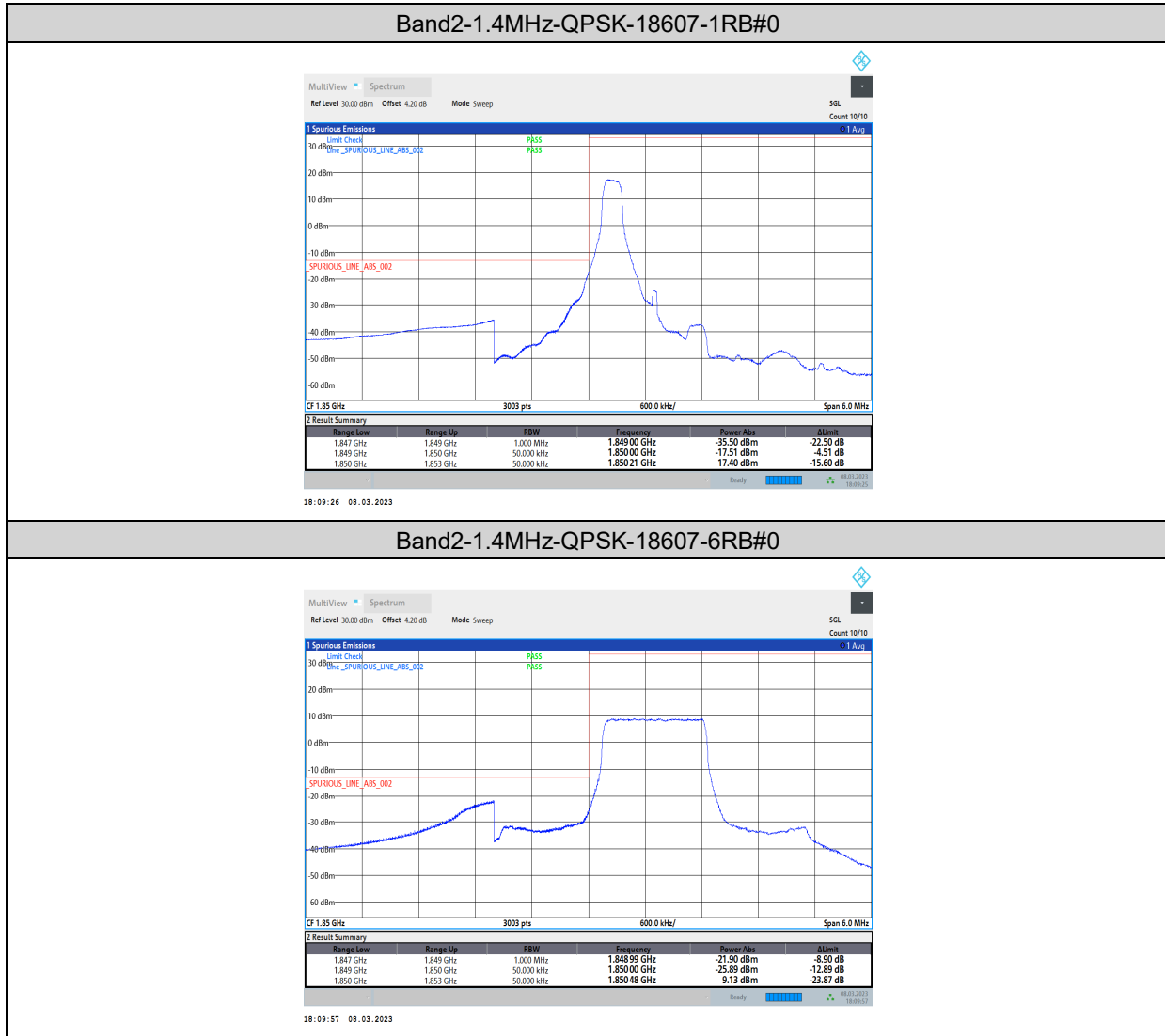
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Band Edge

Test Graphs

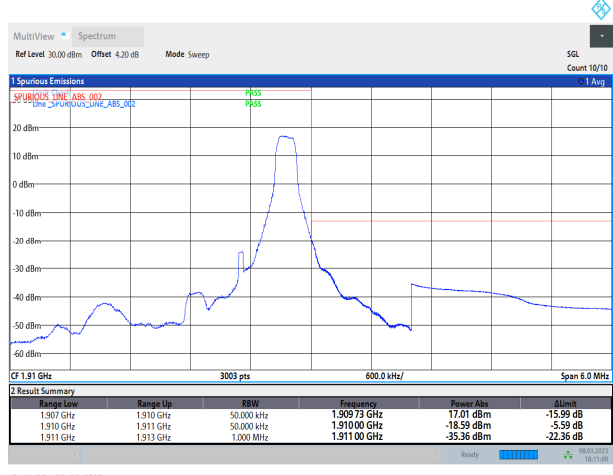


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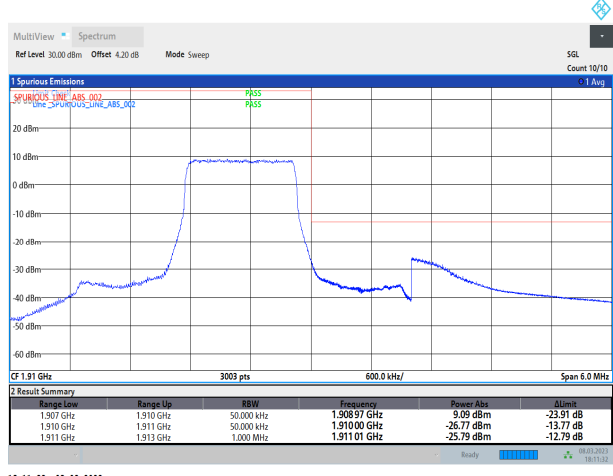
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Band2-1.4MHz-QPSK-19193-1RB#5



18:11:00 08.03.2023

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



18:11:33 08.03.2023

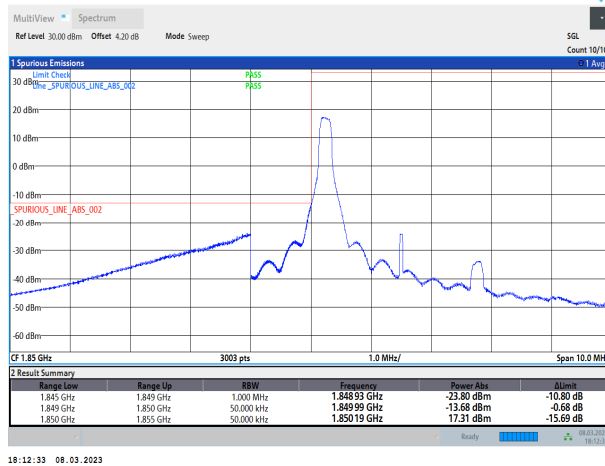


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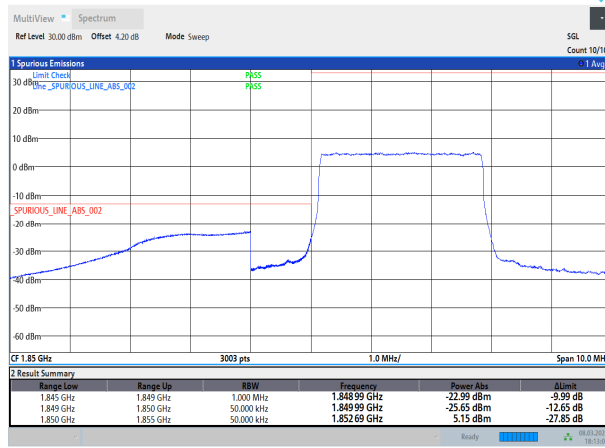
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Band2-3MHz-QPSK-18615-1RB#0



18:12:33 08.03.2023

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



18:13:05 08.03.2023



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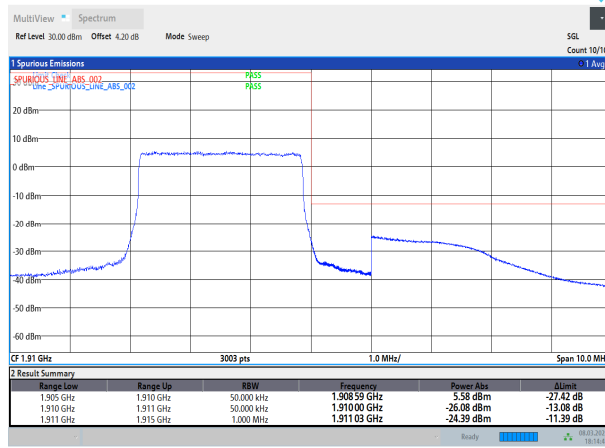
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Band2-3MHz-QPSK-19185-1RB#14



18:14:07 08.03.2023

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



18:14:40 08.03.2023

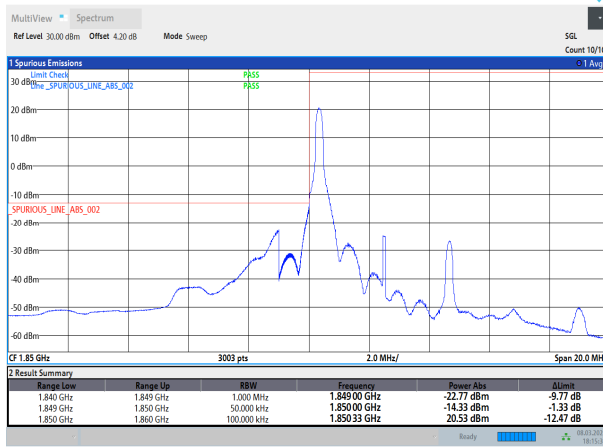


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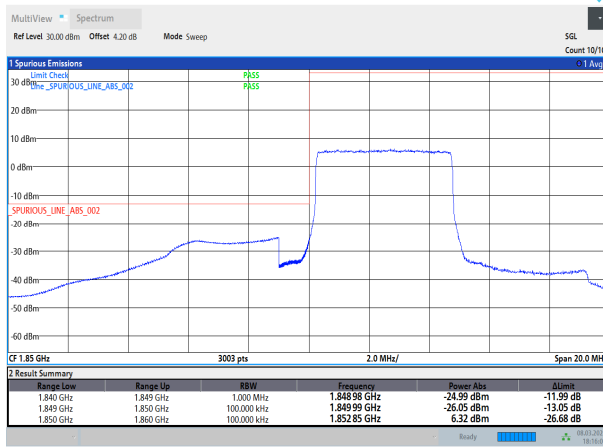
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Band2-5MHz-QPSK-18625-1RB#0



18:15:38 08.03.2023

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



18:16:01 08.03.2023

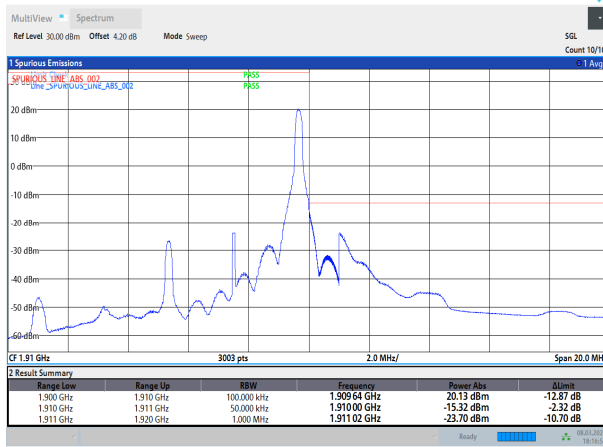


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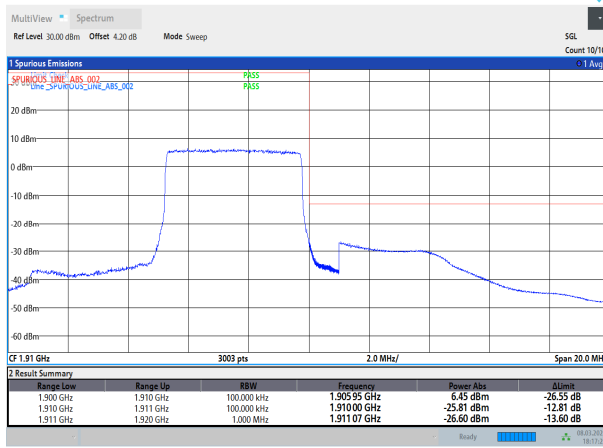
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Band2-5MHz-QPSK-19175-1RB#24



18:16:59 08.03.2023

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



18:17:21 08.03.2023

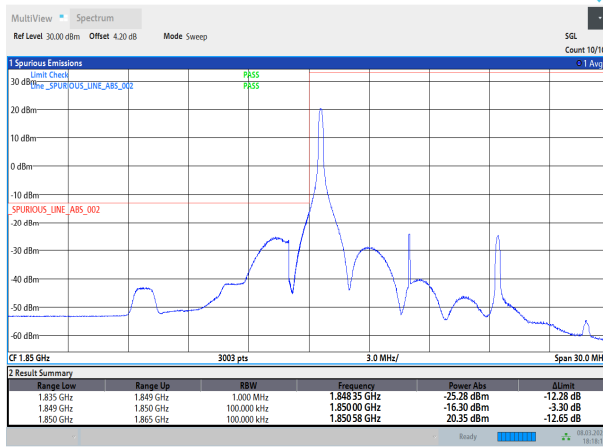


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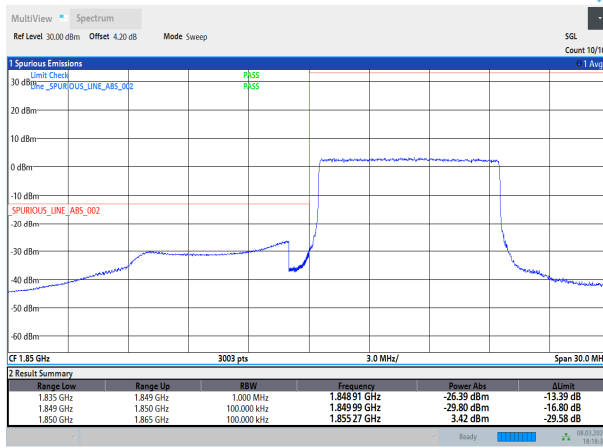
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Band2-10MHz-QPSK-18650-1RB#0



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

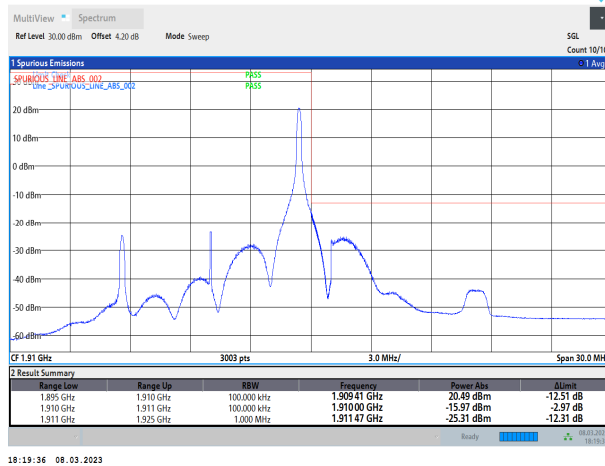


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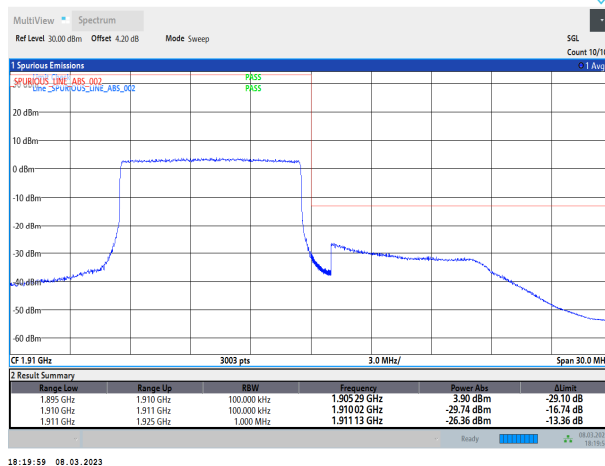
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Band2-10MHz-QPSK-19150-1RB#49



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

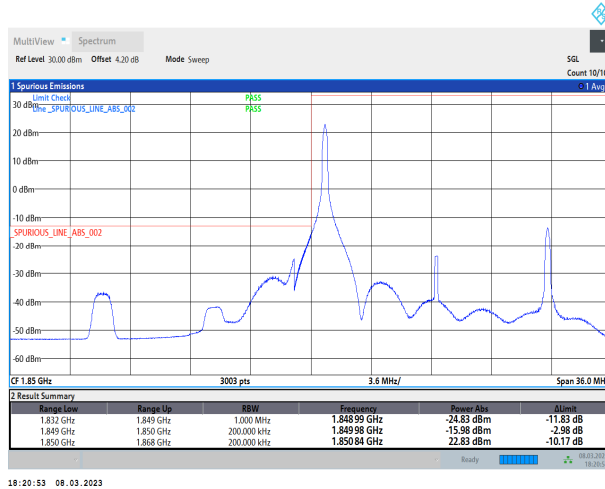


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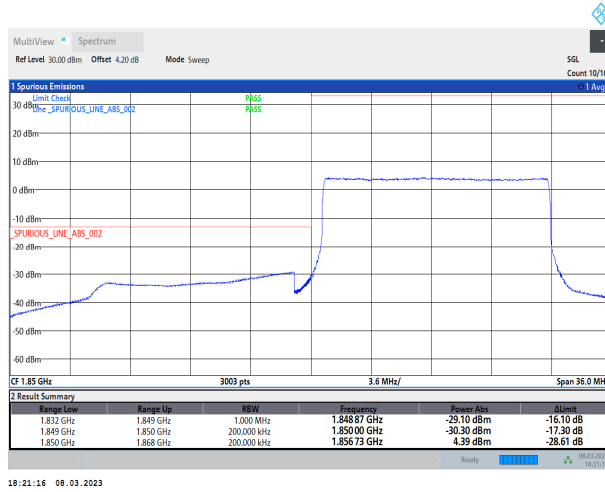
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Band2-15MHz-QPSK-18675-1RB#0



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

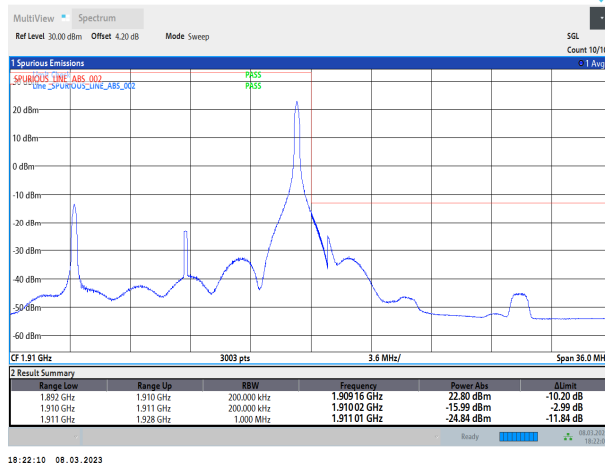


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Band2-15MHz-QPSK-19125-1RB#74



18:22:10 08.03.2023

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



18:22:33 08.03.2023

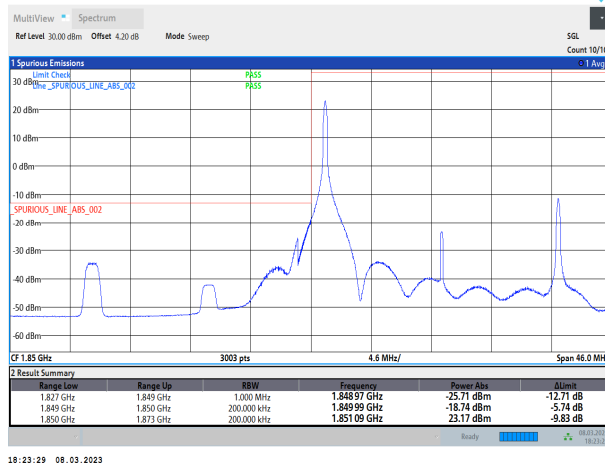


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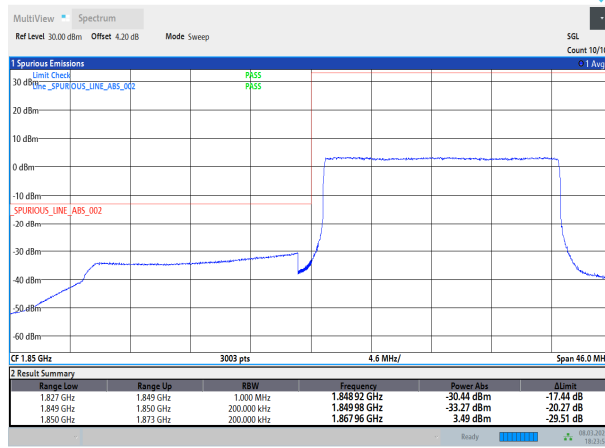
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Band2-20MHz-QPSK-18700-1RB#0



18:23:29 08.03.2023

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



18:23:52 08.03.2023

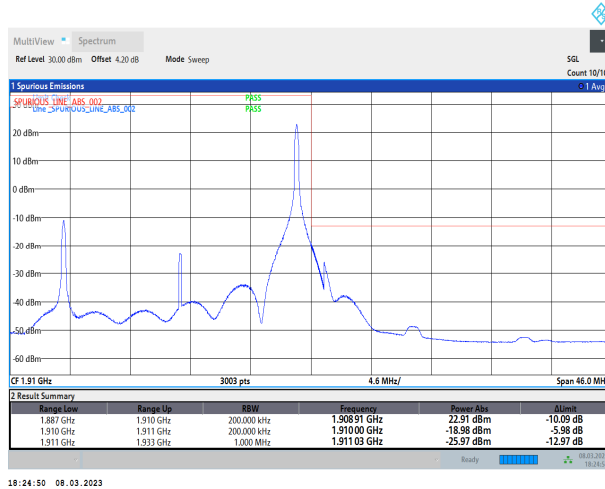


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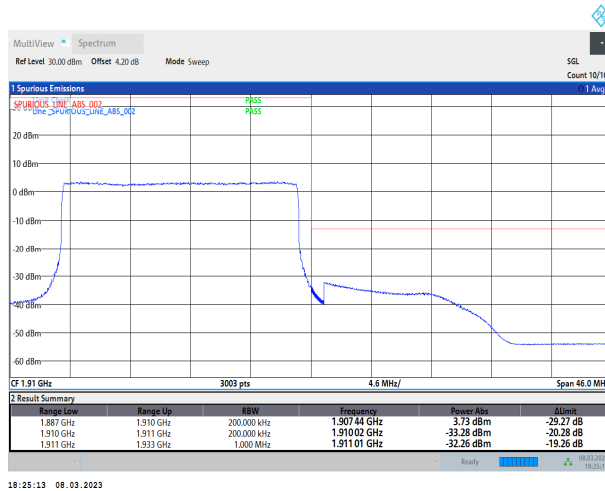
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Band2-20MHz-QPSK-19100-1RB#99



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



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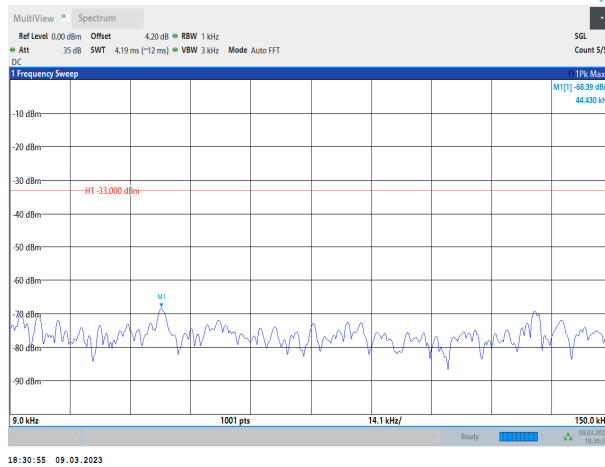
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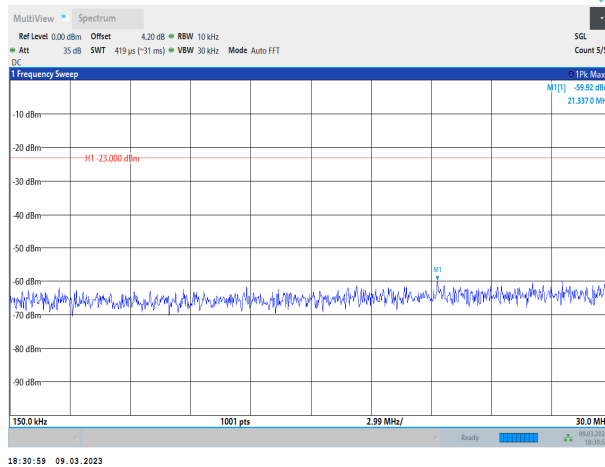
Conducted Spurious Emission

Test Graphs

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



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

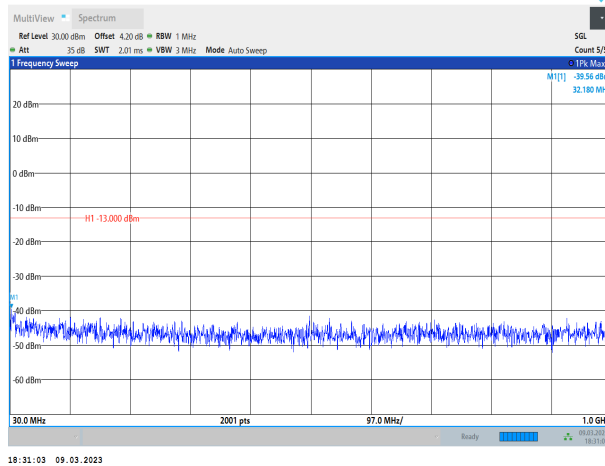


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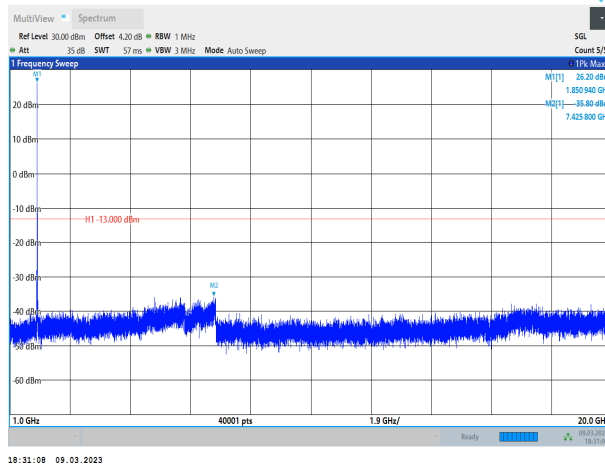
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



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

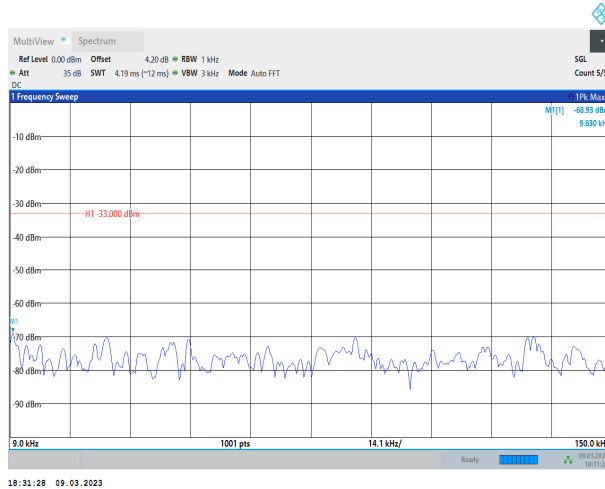


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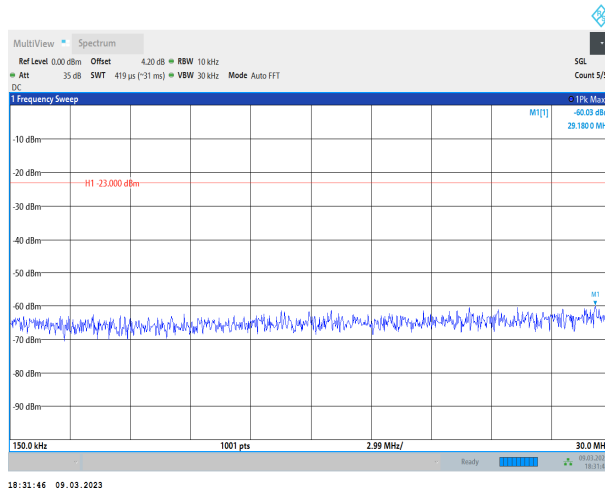
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



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

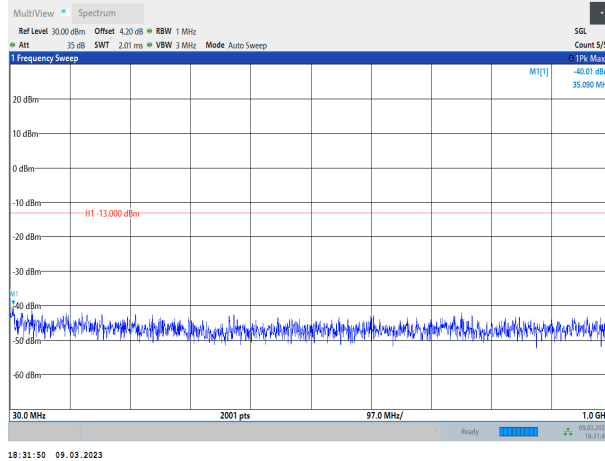


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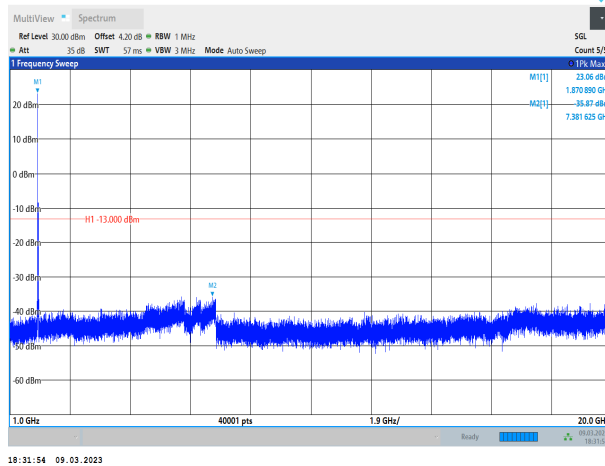
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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



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

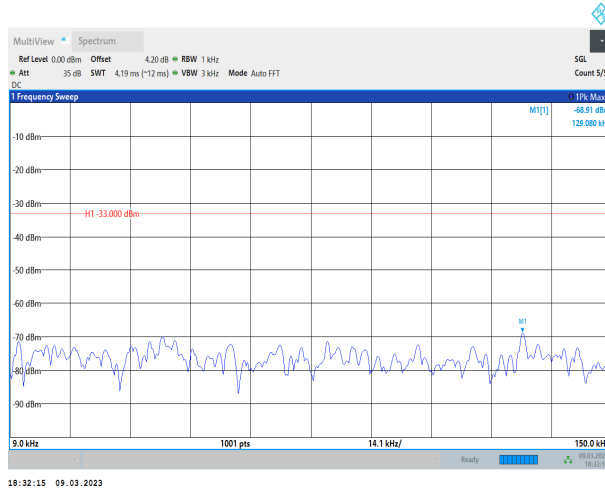


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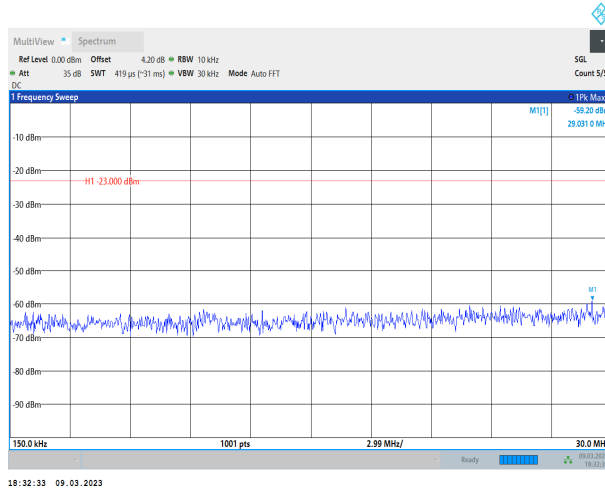
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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



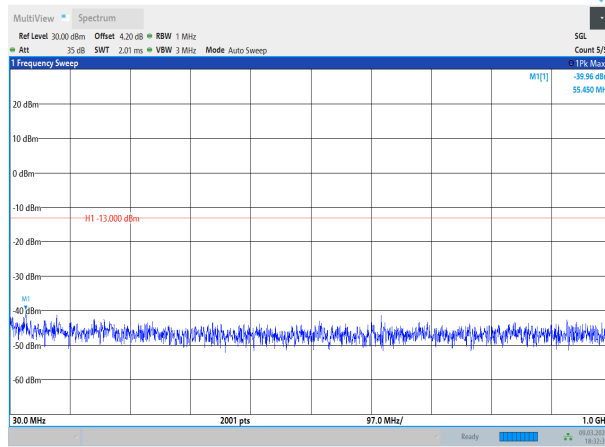
Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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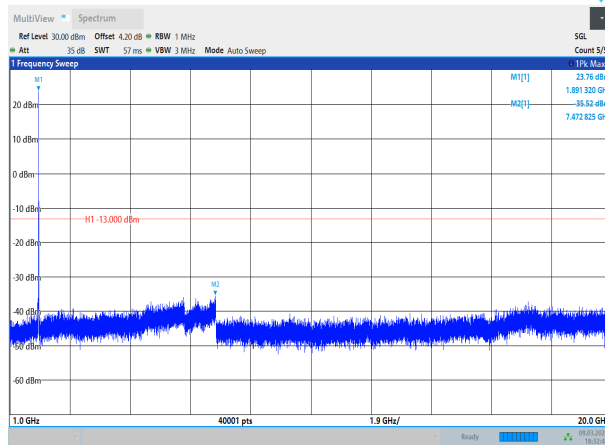
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



18:32:36 09.03.2023

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



18:32:41 09.03.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band 2_20MHz_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	56.83	-45.69	29.89	-54.24	-13.00	41.24	149	322	Horizontal
2	5553.27	41.39	-43.87	32.77	-64.97	-13.00	51.97	216	227	Horizontal
3	7404.36	38.79	-41.96	36.44	-61.99	-13.00	48.99	239	15	Horizontal
4	9255.45	33.23	-38.39	38.57	-61.85	-13.00	48.85	154	31	Horizontal
5	11106.54	31.58	-35.35	39.49	-59.54	-13.00	46.54	176	273	Horizontal
6	12957.63	32.97	-34.89	39.56	-57.63	-13.00	44.63	221	258	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	51.95	-45.69	29.88	-59.12	-13.00	46.12	162	295	Vertical
2	5553.27	40.93	-43.87	32.77	-65.43	-13.00	52.43	305	344	Vertical
3	7404.36	39.14	-41.96	36.44	-61.64	-13.00	48.64	266	264	Vertical
4	9255.45	33.84	-38.39	38.57	-61.24	-13.00	48.24	185	99	Vertical
5	11106.54	31.85	-35.35	39.49	-59.27	-13.00	46.27	214	81	Vertical
6	12957.63	32.91	-34.89	39.56	-57.69	-13.00	44.69	165	344	Vertical



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Test Band = LTE Band 2_20MHz_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	57.49	-45.59	29.98	-53.37	-13.00	40.37	143	315	Horizontal
2	5613.27	40.64	-43.84	32.96	-65.50	-13.00	52.50	256	166	Horizontal
3	7484.36	38.96	-41.66	36.49	-61.47	-13.00	48.47	184	353	Horizontal
4	9355.45	34.81	-38.26	38.56	-60.15	-13.00	47.15	236	298	Horizontal
5	11226.54	31.92	-35.07	39.37	-59.03	-13.00	46.03	289	166	Horizontal
6	13097.63	31.99	-34.47	39.66	-58.08	-13.00	45.08	176	182	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	3742.18	49.32	-45.59	29.98	-61.54	-13.00	48.54	279	296	Vertical
2	5613.27	40.99	-43.84	32.96	-65.15	-13.00	52.15	143	279	Vertical
3	7484.36	38.93	-41.66	36.49	-61.50	-13.00	48.50	158	99	Vertical
4	9355.45	34.42	-38.26	38.56	-60.54	-13.00	47.54	219	314	Vertical
5	11226.54	31.76	-35.07	39.37	-59.19	-13.00	46.19	234	16	Vertical
6	13097.63	32.83	-34.47	39.66	-57.24	-13.00	44.24	251	16	Vertical



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Test Band = LTE Band 2_20MHz_TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	60.59	-45.48	30.08	-50.07	-13.00	37.07	238	313	Horizontal
2	5673.27	40.74	-43.77	33.16	-65.14	-13.00	52.14	149	49	Horizontal
3	7564.36	37.40	-41.38	36.63	-62.61	-13.00	49.61	216	265	Horizontal
4	9455.45	35.38	-38.15	38.55	-59.48	-13.00	46.48	255	148	Horizontal
5	11346.54	31.01	-35.43	39.25	-60.43	-13.00	47.43	184	360	Horizontal
6	13237.63	31.58	-34.98	39.74	-58.91	-13.00	45.91	226	360	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	3782.18	51.52	-45.48	30.08	-59.14	-13.00	46.14	274	295	Vertical
2	5673.27	41.00	-43.77	33.16	-64.88	-13.00	51.88	196	50	Vertical
3	7564.36	38.15	-41.38	36.63	-61.86	-13.00	48.86	216	360	Vertical
4	9455.45	35.86	-38.15	38.55	-59.00	-13.00	46.00	235	280	Vertical
5	11346.54	31.88	-35.43	39.25	-59.56	-13.00	46.56	241	280	Vertical
6	13237.63	31.53	-34.98	39.74	-58.96	-13.00	45.96	156	197	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	-4.60	-0.002447	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-5.30	-0.002819	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-3.50	-0.001862	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-5.30	-0.002819	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-1.10	-0.000585	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-5.20	-0.002766	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-2.90	-0.001543	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-5.70	-0.003032	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-2.90	-0.001543	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-1.00	-0.000532	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-3.40	-0.001809	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-5.70	-0.003032	PASS

---End of Attachment---



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