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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	22.73	24.32	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.77	24.36	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.54	24.13	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.8	23.39	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.71	24.3	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.77	24.36	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.87	24.46	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.87	23.46	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.76	24.35	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.98	24.57	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.76	24.35	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22	23.59	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.82	23.41	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.49	23.08	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.74	23.33	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.63	22.22	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.17	23.76	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.14	23.73	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.99	23.58	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.6	22.19	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.84	23.43	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.74	23.33	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.47	23.06	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.98	22.57	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.91	24.5	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.58	24.17	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.67	24.26	33	PASS



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Band2	3MHz	QPSK	18615	15RB#0	21.83	23.42	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.85	24.44	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.73	24.32	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.84	24.43	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.96	23.55	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.87	24.46	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.88	24.47	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.9	24.49	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.01	23.6	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.71	23.3	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.32	22.91	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.7	23.29	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.66	22.25	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.7	23.29	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.69	23.28	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.87	23.46	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.41	22	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.89	23.48	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.86	23.45	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.02	23.61	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.78	22.37	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.58	24.17	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	23.12	24.71	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.76	24.35	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.75	23.34	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.67	24.26	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.15	24.74	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.72	24.31	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.86	23.45	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.7	24.29	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	23.01	24.6	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.82	24.41	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.95	23.54	33	PASS



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Band2	5MHz	16QAM	18625	1RB#0	21.64	23.23	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.52	23.11	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.43	23.02	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.68	22.27	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.71	23.3	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.6	23.19	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.64	23.23	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.66	22.25	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.94	23.53	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	22.16	23.75	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.8	23.39	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.7	22.29	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.82	24.41	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.85	24.44	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.77	24.36	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.85	23.44	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.82	24.41	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	23.08	24.67	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.85	24.44	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.92	23.51	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.84	24.43	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.01	24.6	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	23.01	24.6	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.88	23.47	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.7	23.29	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.6	23.19	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.76	23.35	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.81	22.4	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.73	23.32	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	22.45	24.04	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.7	23.29	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.94	22.53	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.27	23.86	33	PASS



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Band2	10MHz	16QAM	19150	1RB#24	22.49	24.08	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.94	23.53	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.92	22.51	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.84	24.43	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.76	24.35	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.6	24.19	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.83	23.42	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.7	24.29	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.8	24.39	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.81	24.4	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.82	23.41	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.85	24.44	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.67	24.26	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.93	24.52	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.93	23.52	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.6	23.19	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.85	23.44	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.5	23.09	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.77	22.36	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.99	23.58	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.03	23.62	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.12	23.71	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.7	22.29	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.55	23.14	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.54	23.13	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.24	23.83	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.85	22.44	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.72	24.31	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.03	24.62	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.79	24.38	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.81	23.4	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.68	24.27	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	23.1	24.69	33	PASS



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Band2	20MHz	QPSK	18900	100RB#0	21.94	23.53	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.79	24.38	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	23.21	24.8	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.84	24.43	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.93	23.52	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.62	23.21	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	22.45	24.04	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.06	23.65	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.8	22.39	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.36	22.95	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	22.39	23.98	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.77	23.36	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.77	22.36	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.78	23.37	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.67	23.26	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.8	23.39	33	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.75	22.34	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	5.58	13	PASS
Band2	20MHz	QPSK	18900	100RB#0	5.56	13	PASS
Band2	20MHz	QPSK	19100	100RB#0	5.62	13	PASS
Band2	20MHz	16QAM	18700	100RB#0	6.44	13	PASS
Band2	20MHz	16QAM	18900	100RB#0	6.40	13	PASS
Band2	20MHz	16QAM	19100	100RB#0	6.42	13	PASS

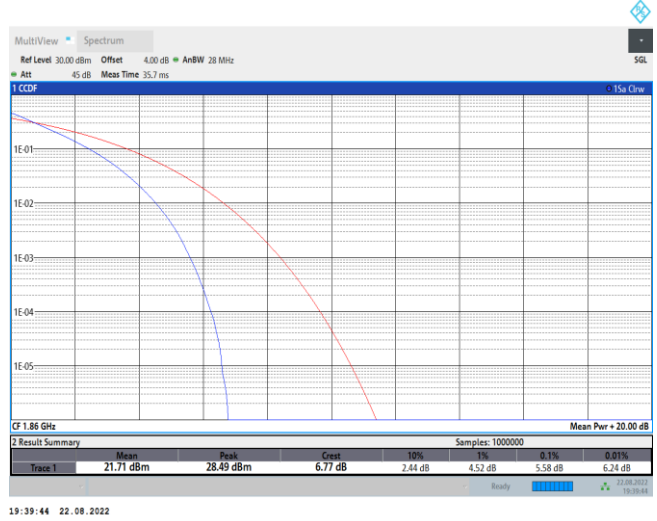


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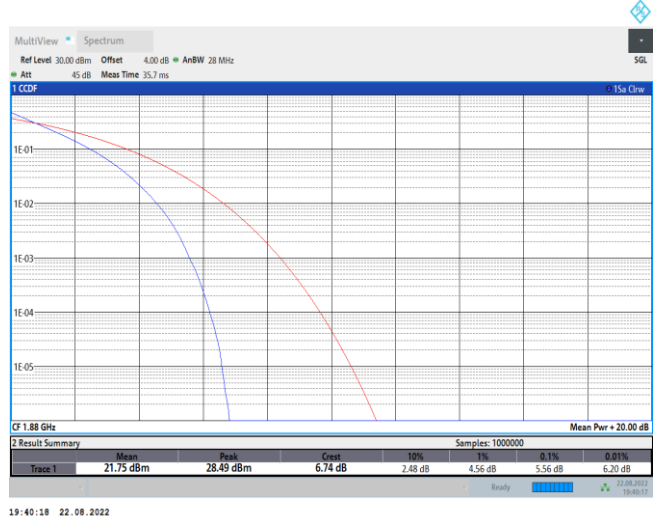
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Test Graphs

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



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



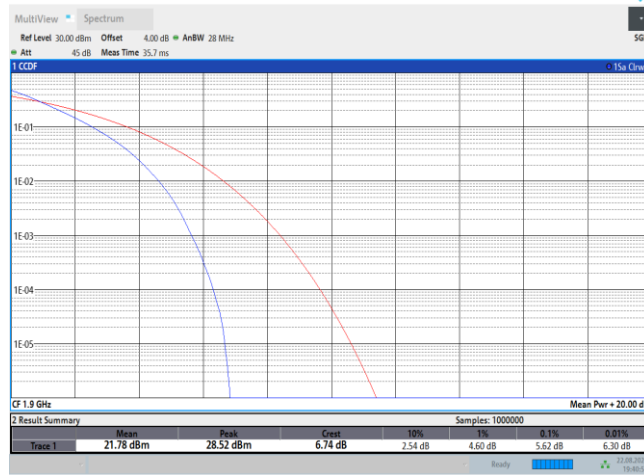
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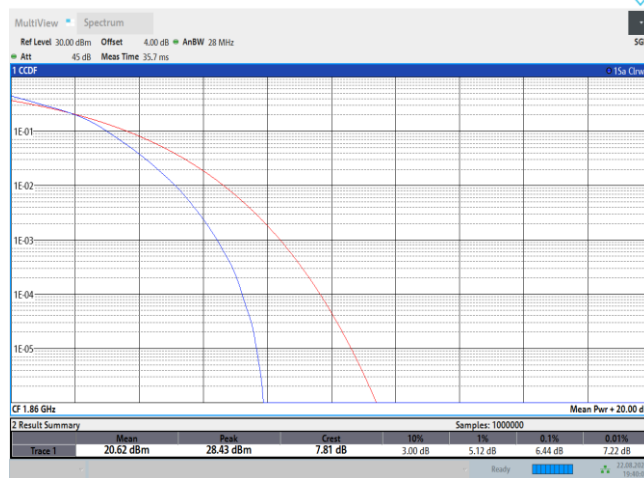


Band2-20MHz-QPSK-19100-100RB#0



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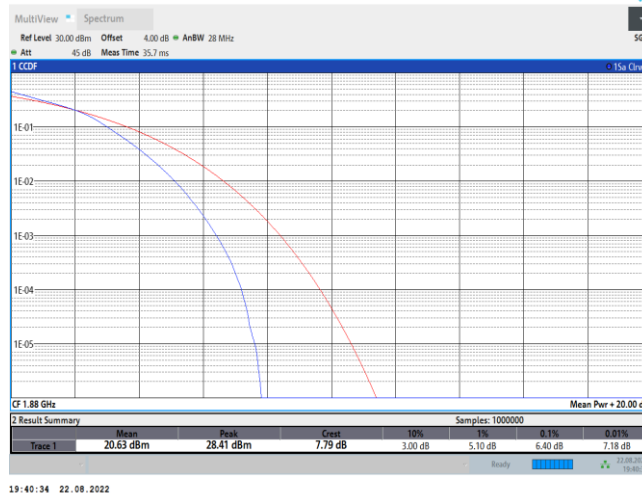


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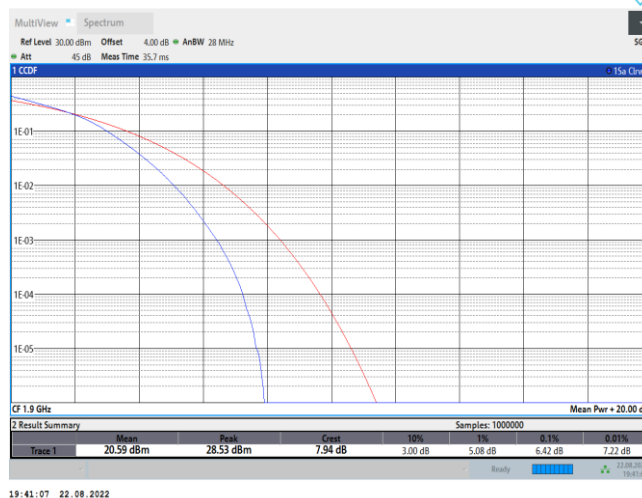


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Band2-20MHz-16QAM-18900-100RB#0



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



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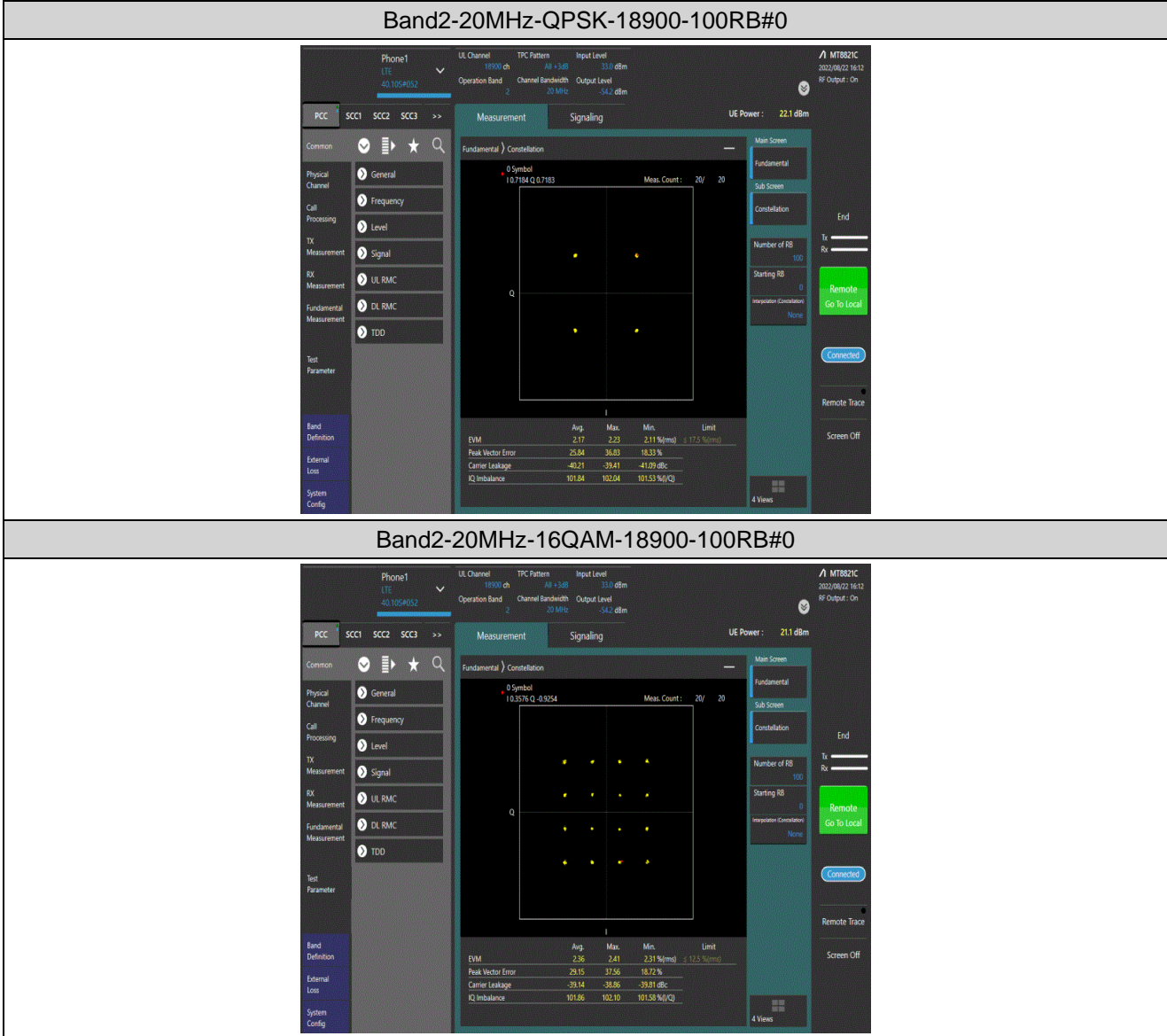
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Test Graphs



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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	1.09	1.29	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.088	1.28	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.088	1.28	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	1.106	1.40	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	1.096	1.29	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	1.096	1.30	PASS
Band2	3MHz	QPSK	18615	15RB#0	2.724	2.94	PASS
Band2	3MHz	QPSK	18900	15RB#0	2.693	2.96	PASS
Band2	3MHz	QPSK	19185	15RB#0	2.695	2.97	PASS
Band2	3MHz	16QAM	18615	15RB#0	2.688	2.97	PASS
Band2	3MHz	16QAM	18900	15RB#0	2.684	2.95	PASS
Band2	3MHz	16QAM	19185	15RB#0	2.687	2.98	PASS
Band2	5MHz	QPSK	18625	25RB#0	4.469	4.91	PASS
Band2	5MHz	QPSK	18900	25RB#0	4.468	4.90	PASS
Band2	5MHz	QPSK	19175	25RB#0	4.466	4.90	PASS
Band2	5MHz	16QAM	18625	25RB#0	4.464	4.89	PASS
Band2	5MHz	16QAM	18900	25RB#0	4.461	4.90	PASS
Band2	5MHz	16QAM	19175	25RB#0	4.463	4.91	PASS
Band2	10MHz	QPSK	18650	50RB#0	8.928	9.68	PASS
Band2	10MHz	QPSK	18900	50RB#0	8.922	9.64	PASS
Band2	10MHz	QPSK	19150	50RB#0	8.926	9.70	PASS
Band2	10MHz	16QAM	18650	50RB#0	8.902	9.64	PASS
Band2	10MHz	16QAM	18900	50RB#0	8.903	9.70	PASS
Band2	10MHz	16QAM	19150	50RB#0	8.89	9.64	PASS
Band2	15MHz	QPSK	18675	75RB#0	13.43	14.70	PASS
Band2	15MHz	QPSK	18900	75RB#0	13.416	14.73	PASS
Band2	15MHz	QPSK	19125	75RB#0	13.432	14.70	PASS
Band2	15MHz	16QAM	18675	75RB#0	13.422	14.88	PASS
Band2	15MHz	16QAM	18900	75RB#0	13.403	14.79	PASS
Band2	15MHz	16QAM	19125	75RB#0	13.408	14.79	PASS



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Band2	20MHz	QPSK	18700	100RB#0	17.876	19.44	PASS
Band2	20MHz	QPSK	18900	100RB#0	17.882	19.40	PASS
Band2	20MHz	QPSK	19100	100RB#0	17.898	19.44	PASS
Band2	20MHz	16QAM	18700	100RB#0	17.866	19.40	PASS
Band2	20MHz	16QAM	18900	100RB#0	17.871	19.32	PASS
Band2	20MHz	16QAM	19100	100RB#0	17.848	19.36	PASS



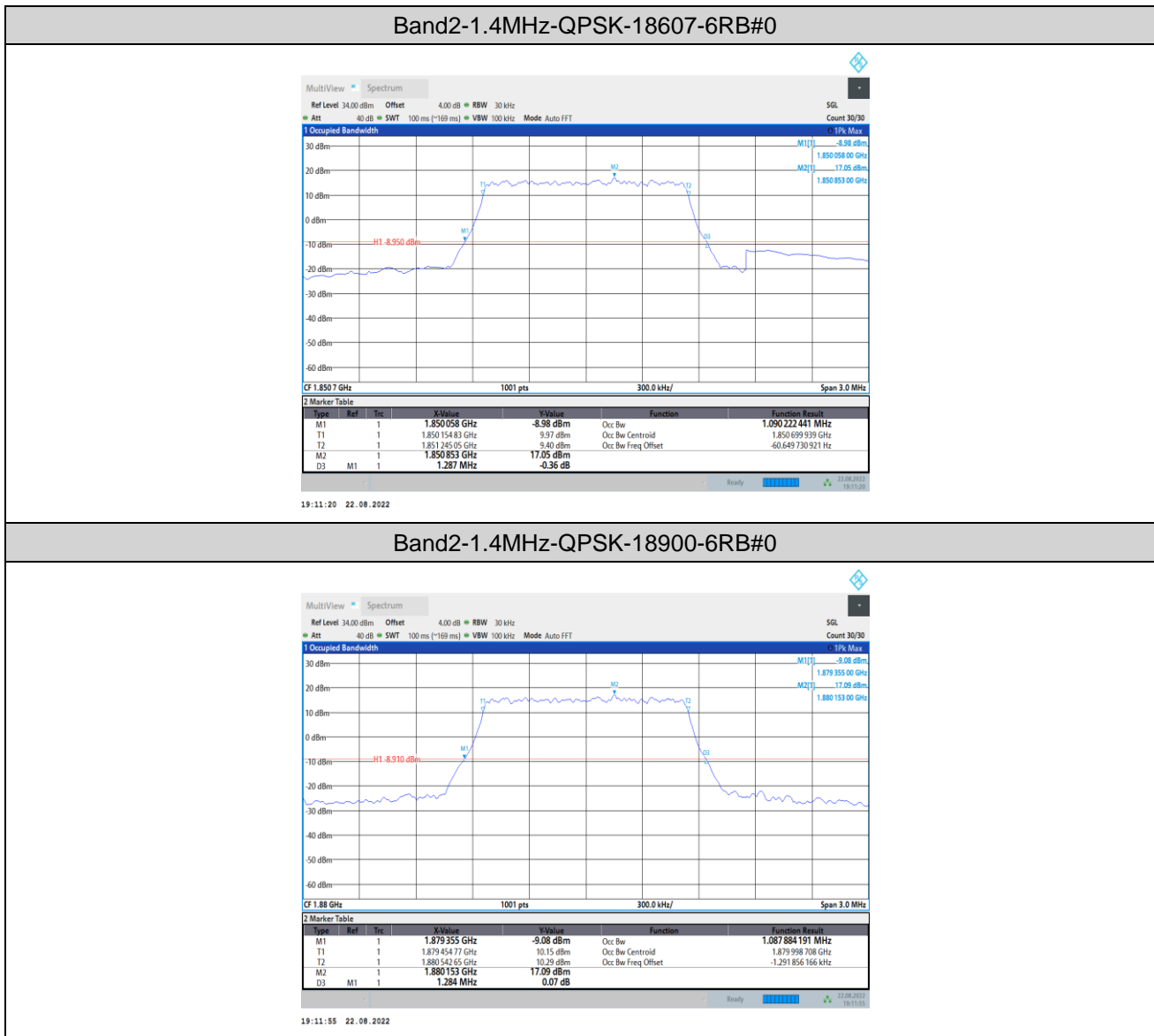
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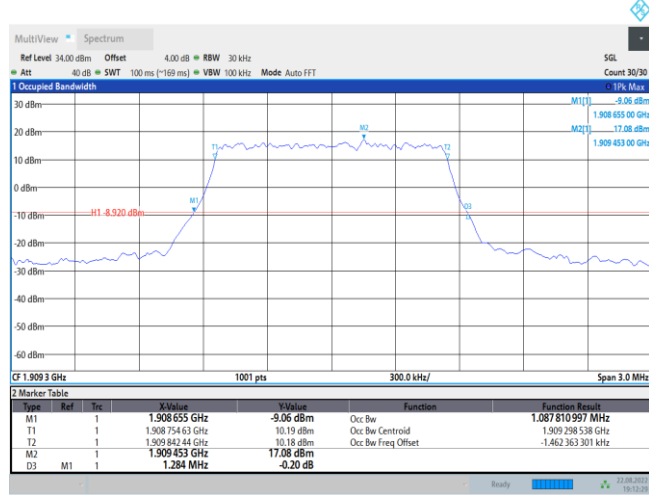


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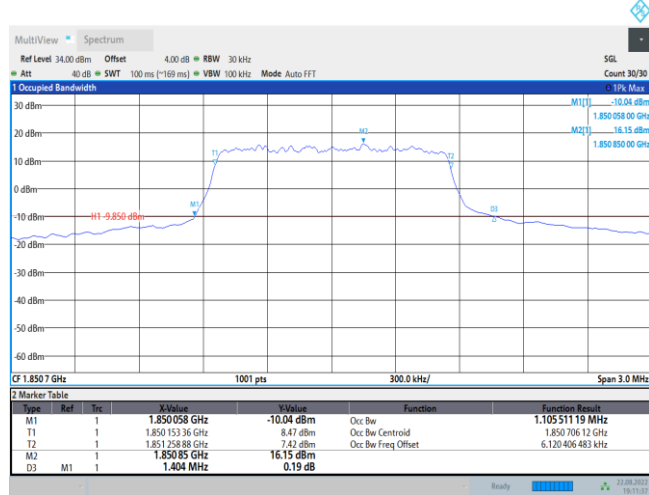
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Band2-1.4MHz-QPSK-19193-6RB#0



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

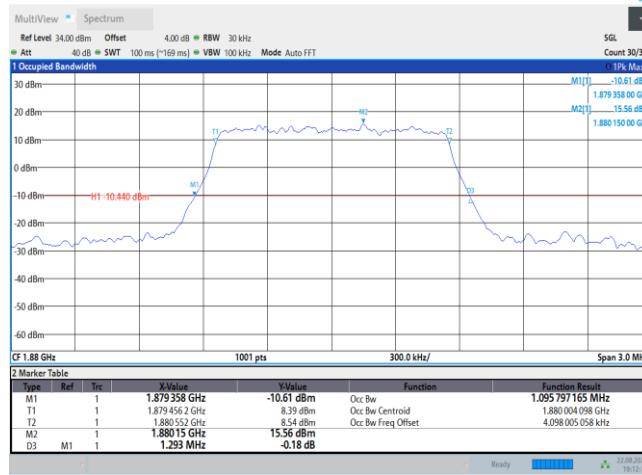


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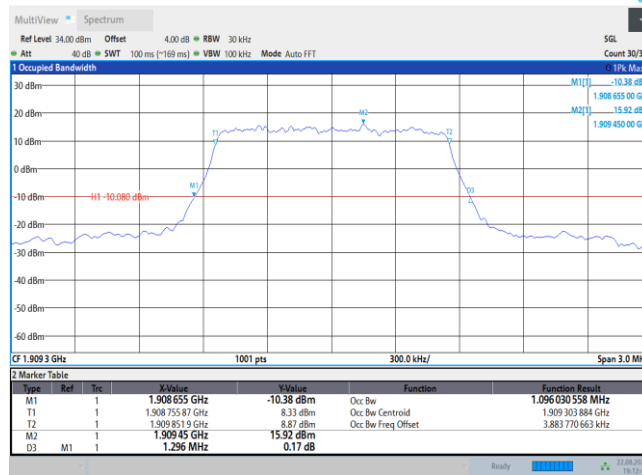
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Band2-1.4MHz-16QAM-18900-6RB#0



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



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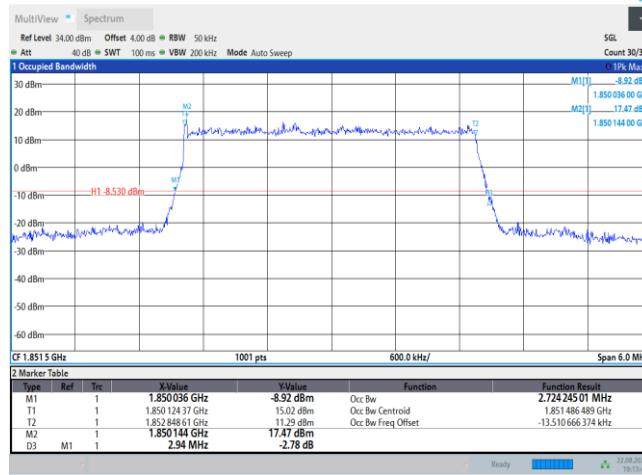


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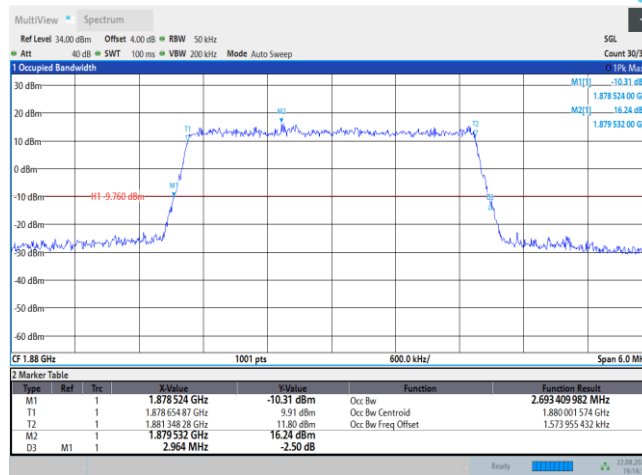
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Band2-3MHz-QPSK-18615-15RB#0



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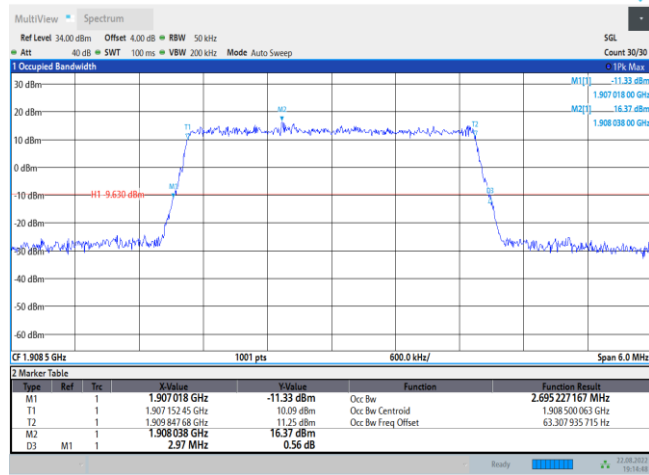
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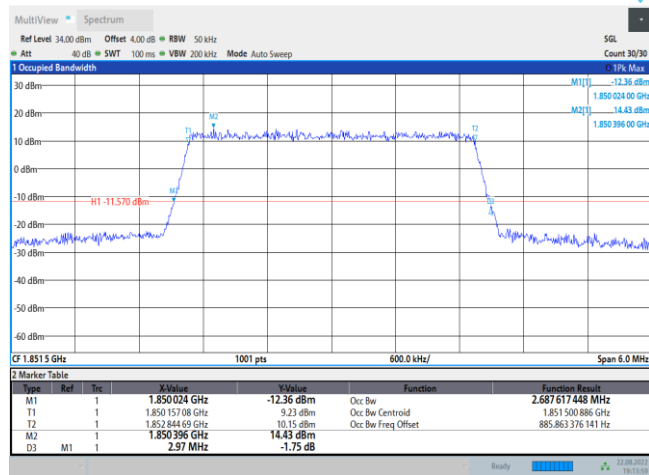


Band2-3MHz-QPSK-19185-15RB#0



19:14:49 22.08.2022

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



19:14:00 22.08.2022



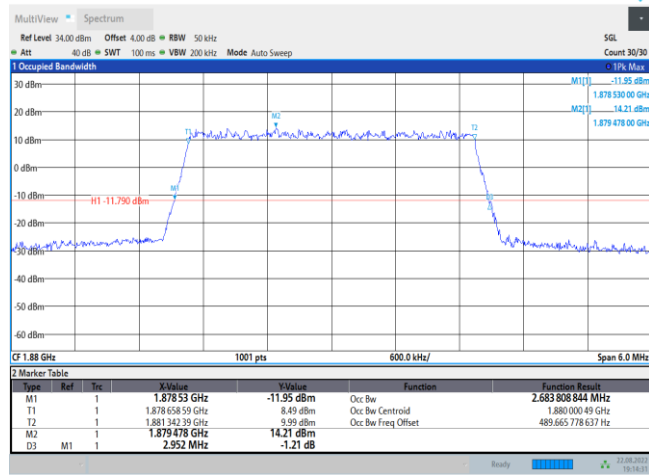
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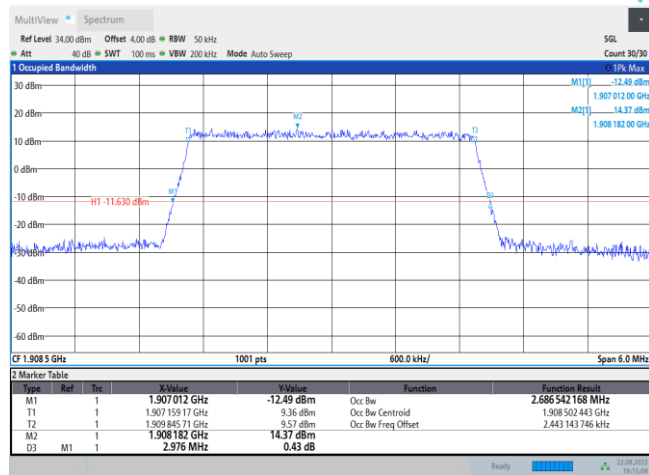
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Band2-3MHz-16QAM-18900-15RB#0



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



19:15:05 22.08.2022



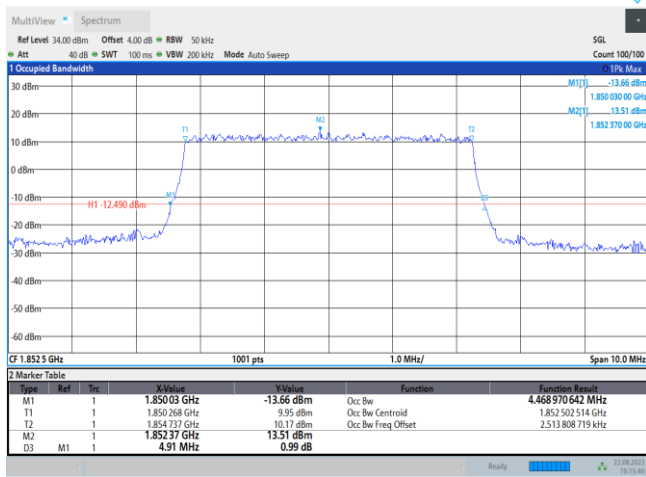
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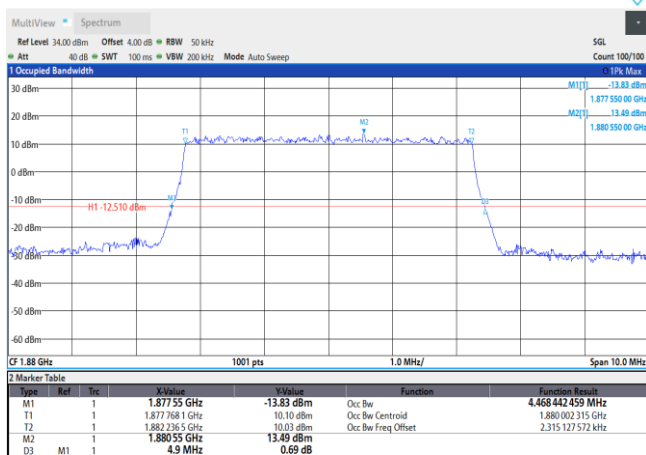
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Band2-5MHz-QPSK-18625-25RB#0



19:15:47 22.08.2022

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

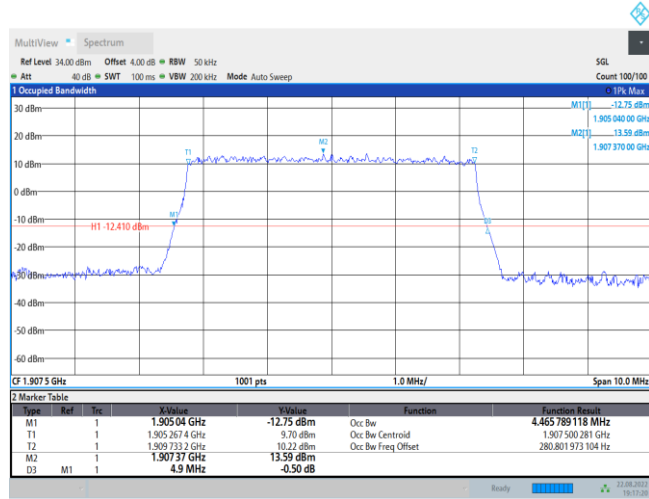


19:16:34 22.08.2022



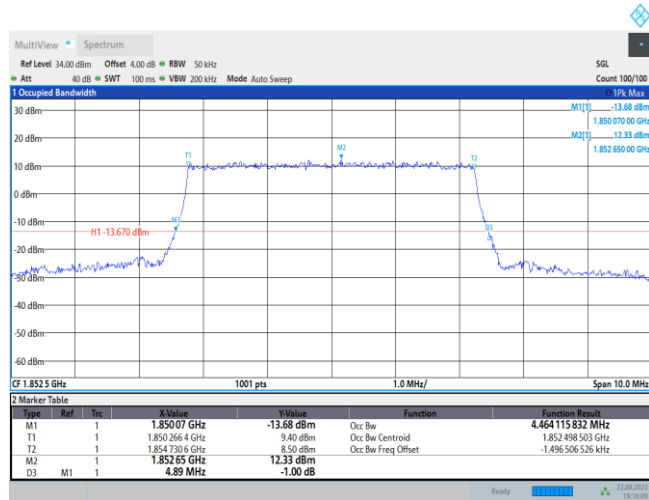
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Band2-5MHz-QPSK-19175-25RB#0



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



19:16:10 22.08.2022

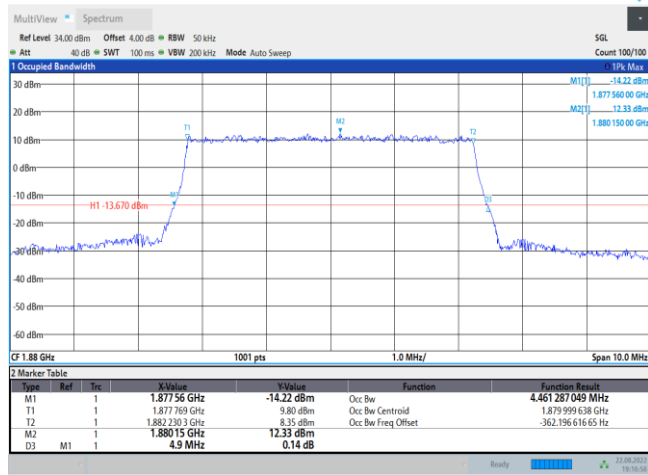


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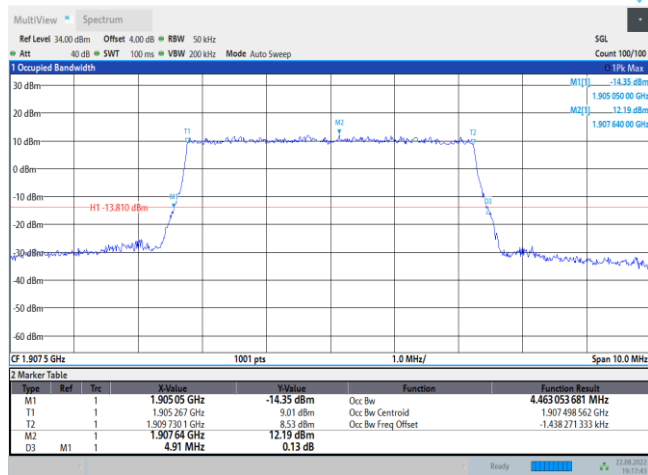
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Band2-5MHz-16QAM-18900-25RB#0



19:16:57 22.08.2022

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



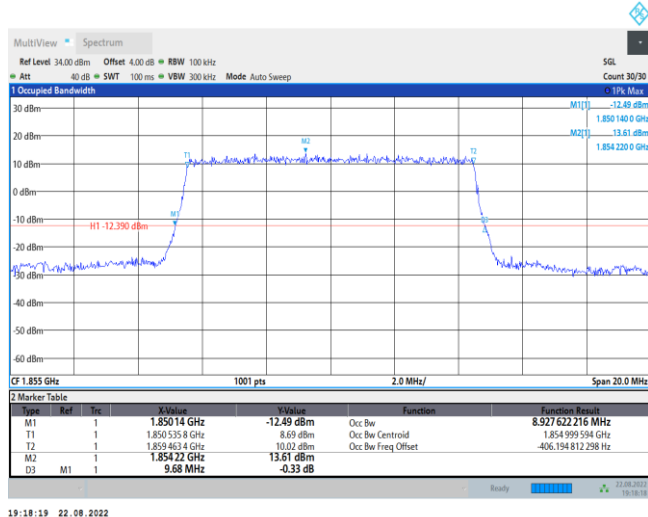
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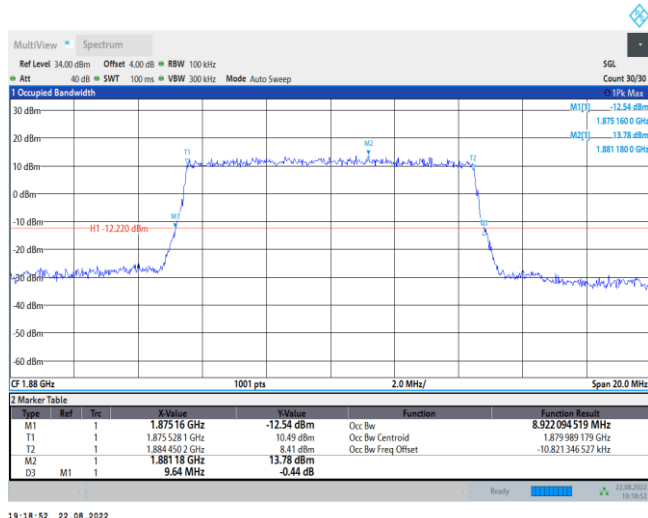
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Band2-10MHz-QPSK-18650-50RB#0



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

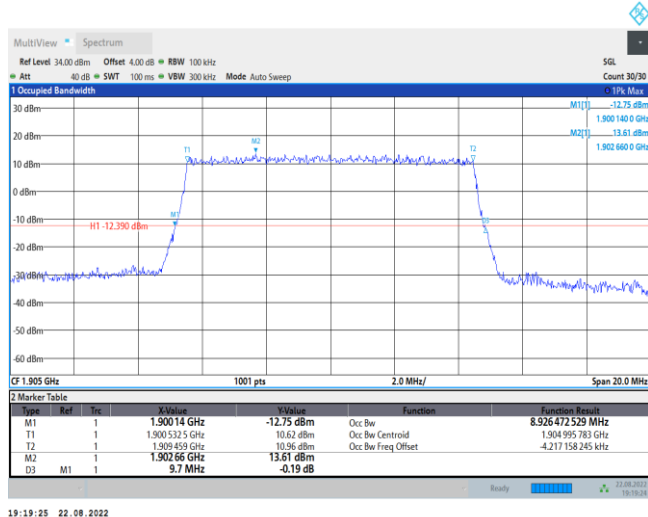


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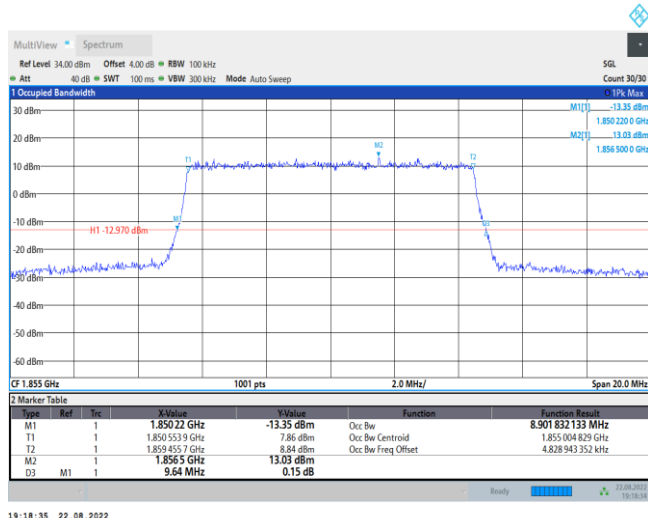
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Band2-10MHz-QPSK-19150-50RB#0



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

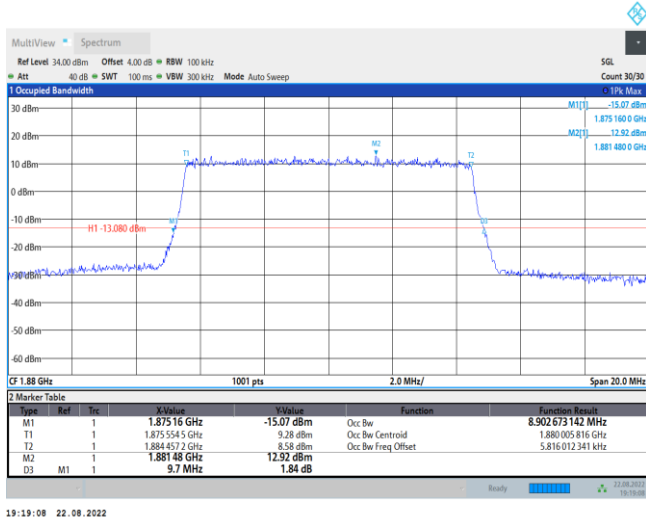


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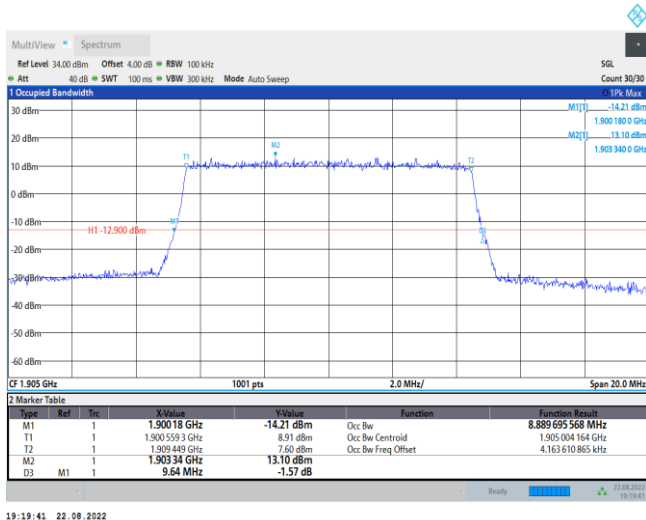
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Band2-10MHz-16QAM-18900-50RB#0



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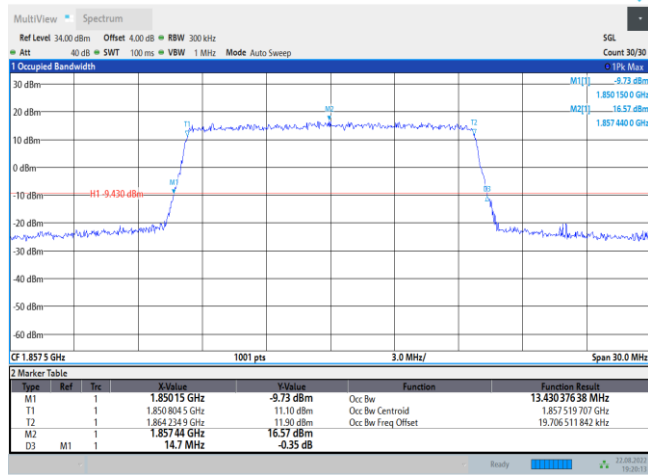


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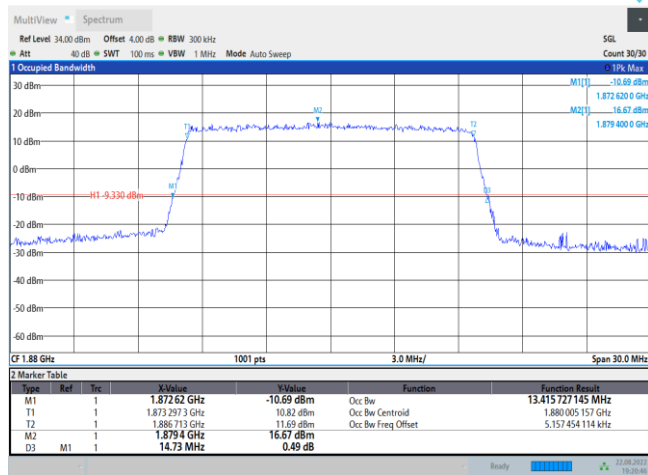
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Band2-15MHz-QPSK-18675-75RB#0



19:20:14 22.08.2022

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



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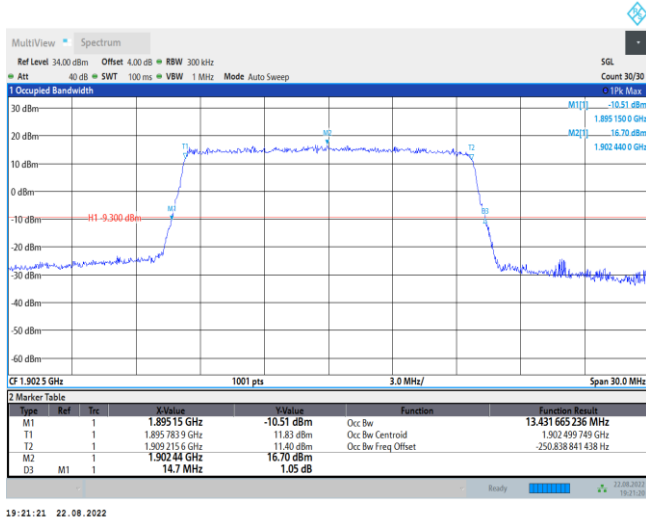


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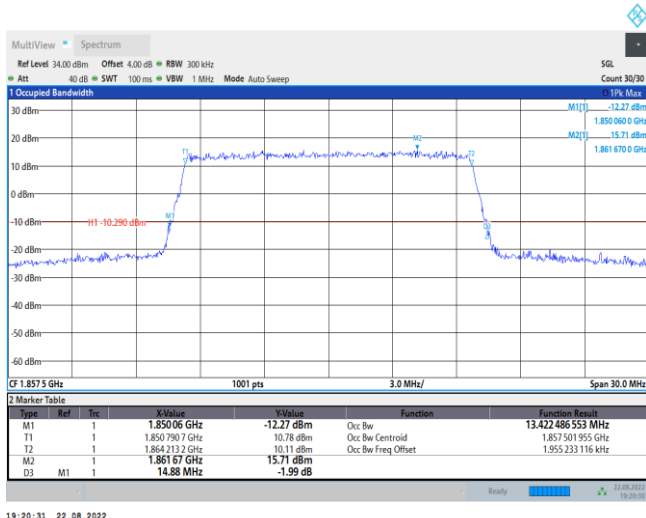
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Band2-15MHz-QPSK-19125-75RB#0



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



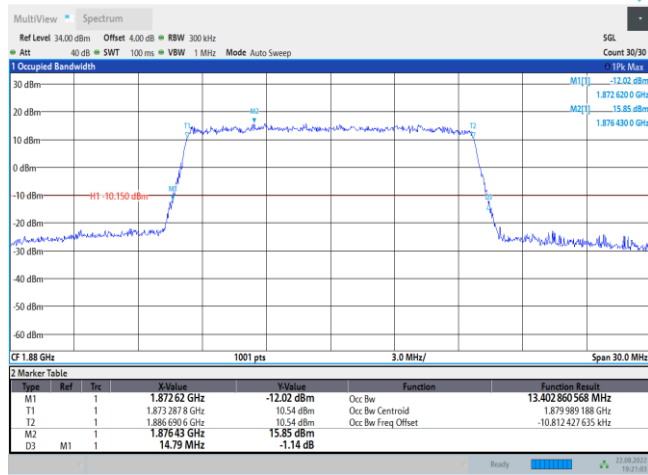
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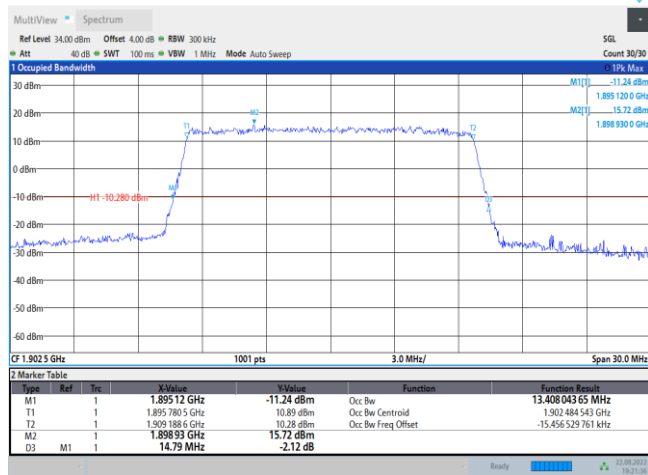


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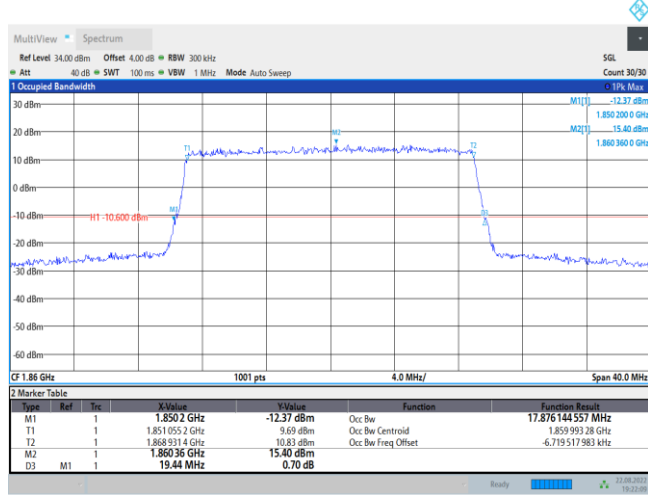


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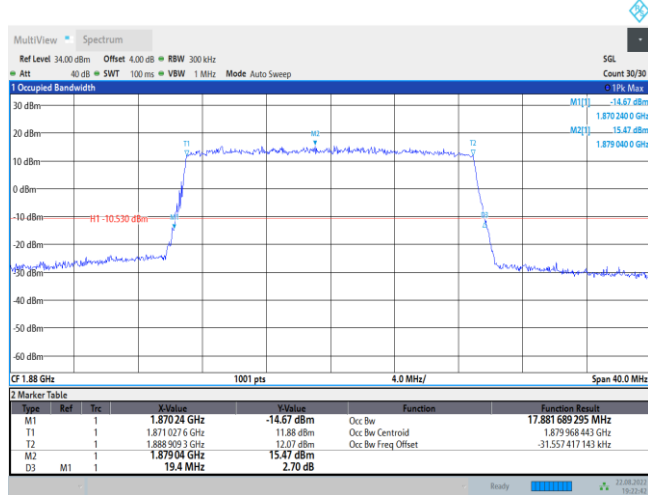
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Band2-20MHz-QPSK-18700-100RB#0



19:22:10 22.08.2022

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



19:22:43 22.08.2022

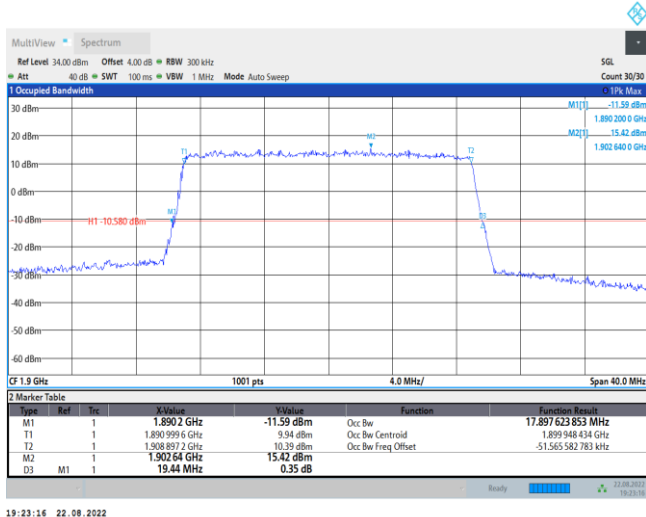


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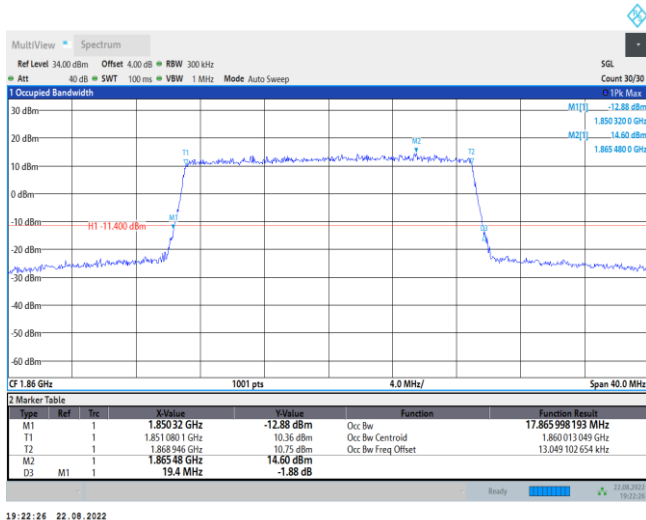
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Band2-20MHz-QPSK-19100-100RB#0

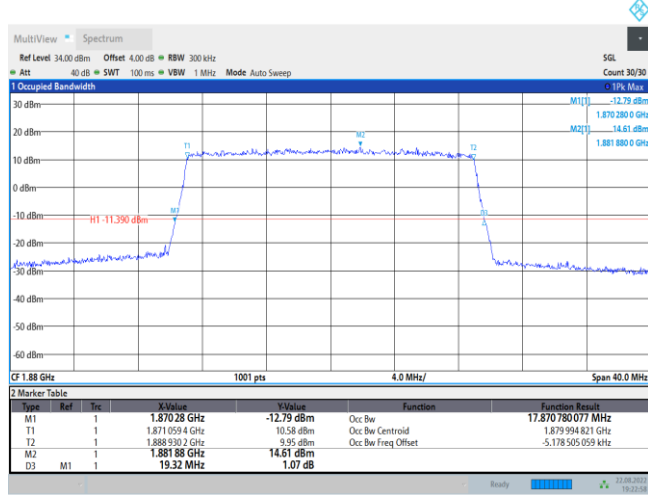


Band2-20MHz-16QAM-18700-100RB#0



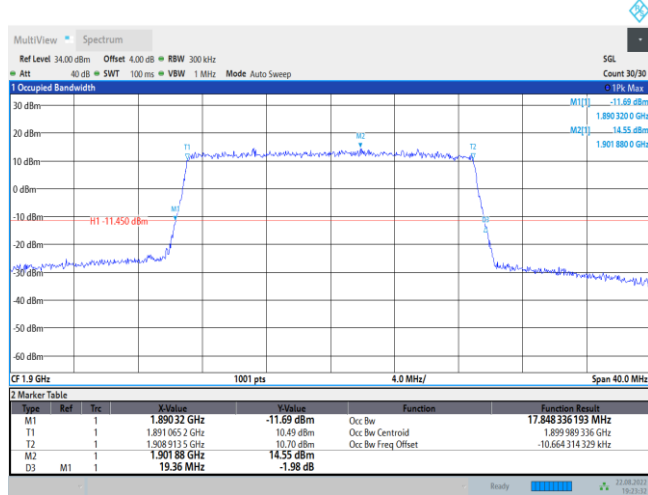
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Band2-20MHz-16QAM-18900-100RB#0



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



19:23:32 22.08.2022

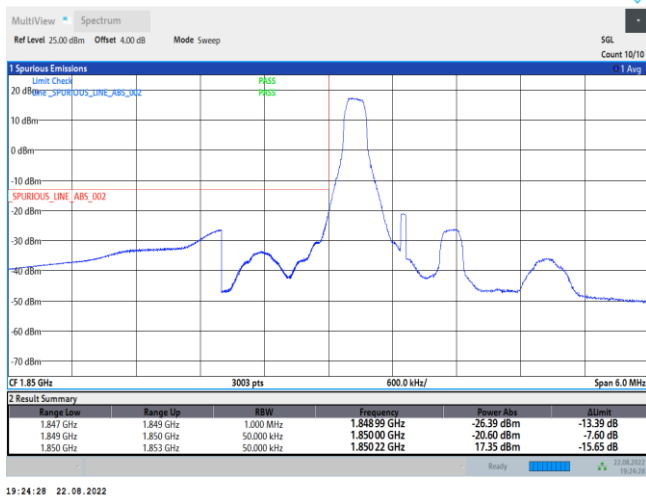


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## Band Edge

## Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



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



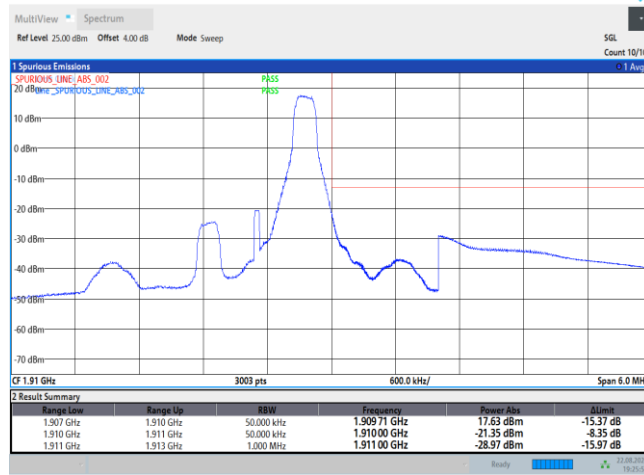
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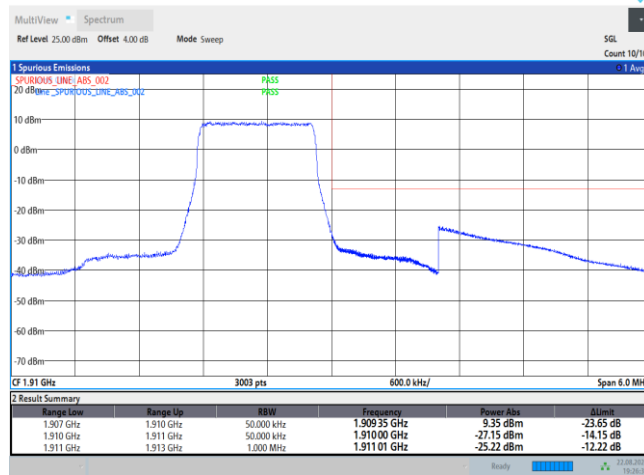


Band2-1.4MHz-QPSK-19193-1RB#5



19:25:57 22.08.2022

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



19:26:31 22.08.2022



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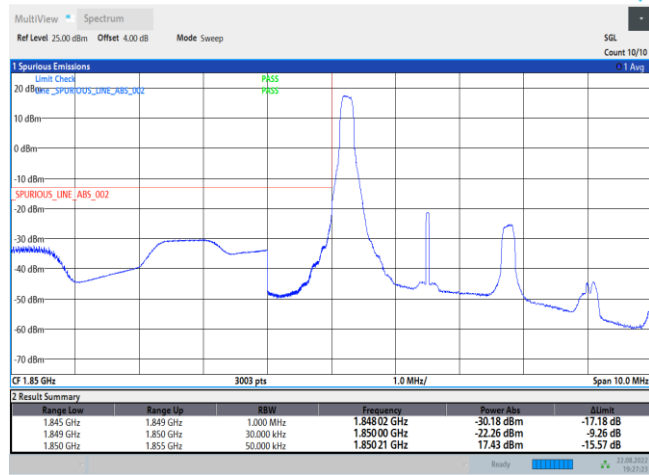
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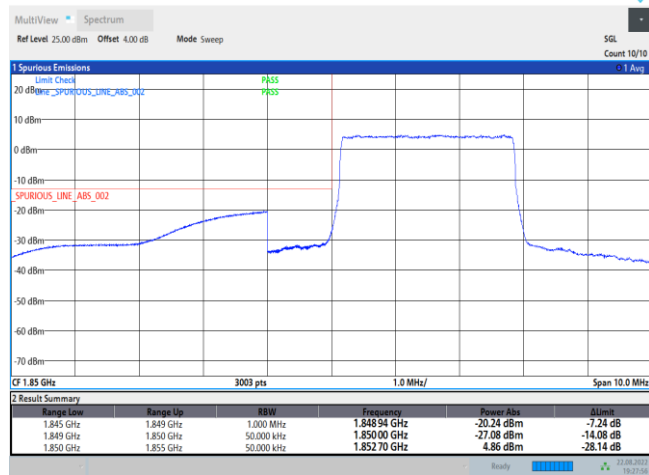
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Band2-3MHz-QPSK-18615-1RB#0



19:27:23 22.08.2022

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



19:27:57 22.08.2022

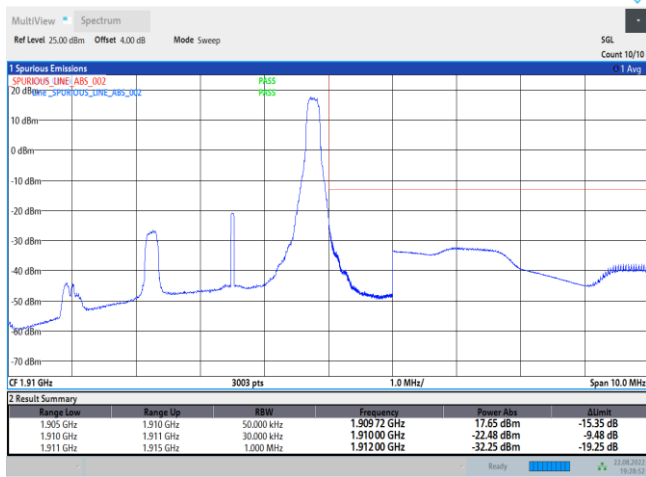


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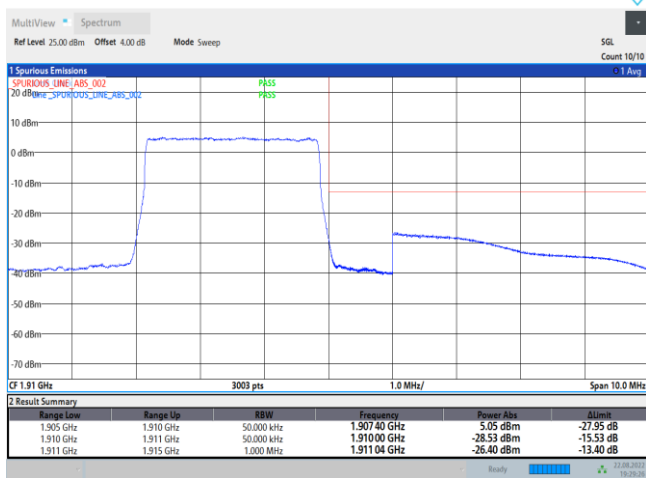
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Band2-3MHz-QPSK-19185-1RB#14



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



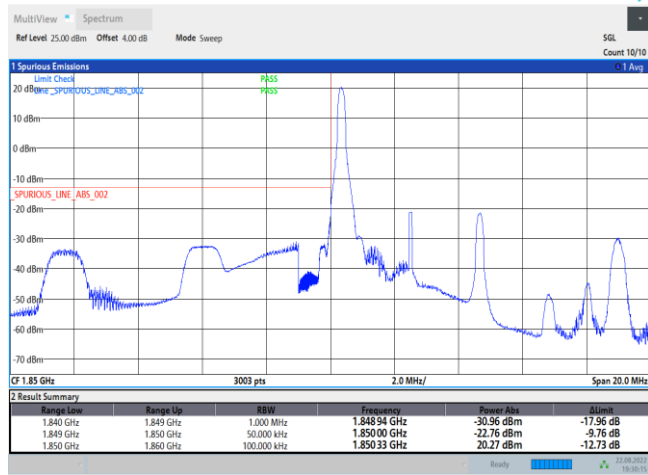
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Band2-5MHz-QPSK-18625-1RB#0



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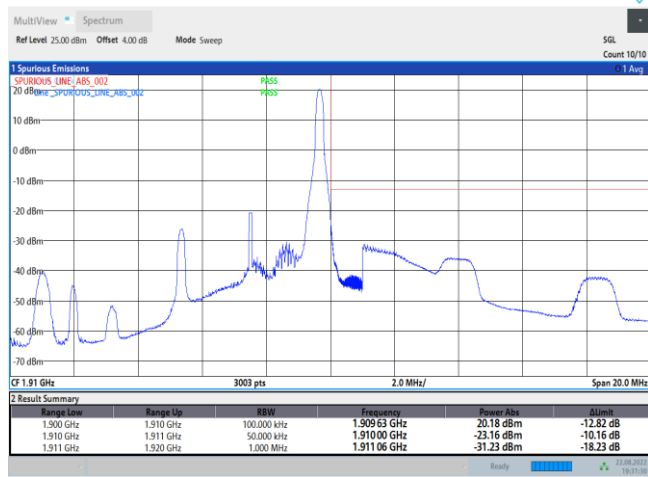


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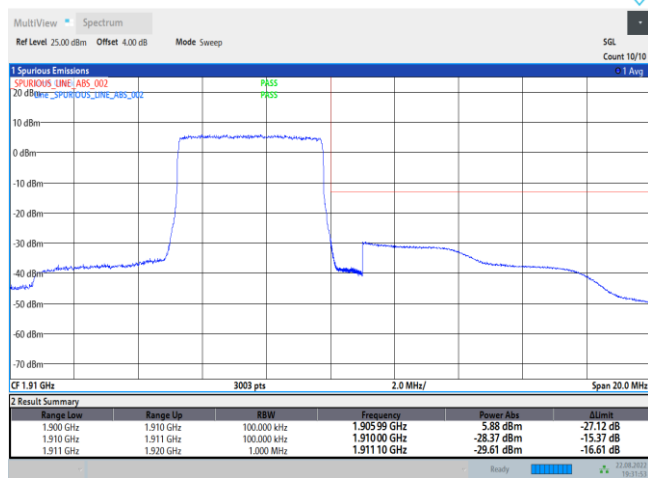
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Band2-5MHz-QPSK-19175-1RB#24



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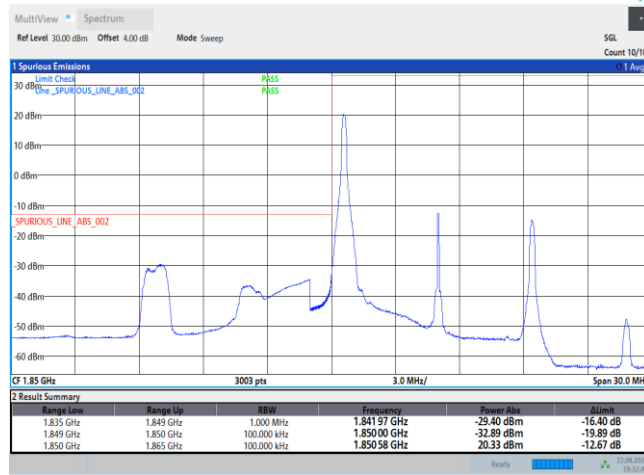
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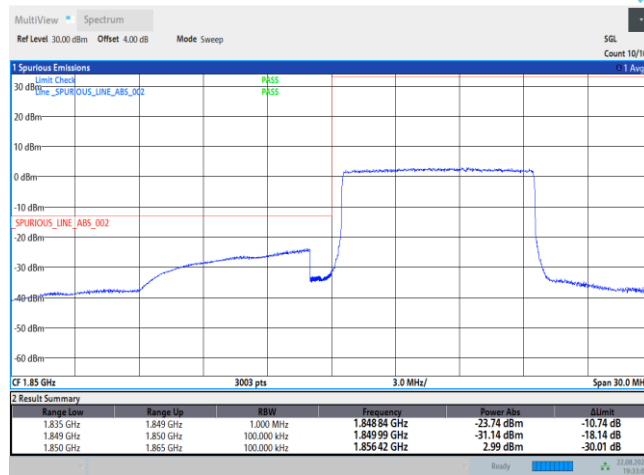
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Band2-10MHz-QPSK-18650-1RB#0



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



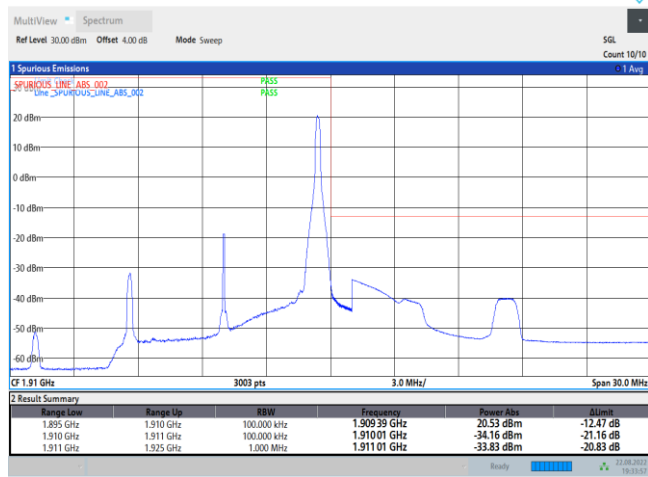
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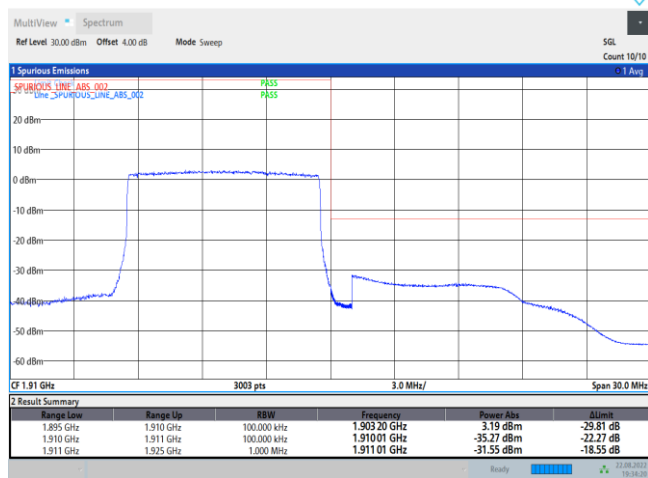
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Band2-10MHz-QPSK-19150-1RB#49



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

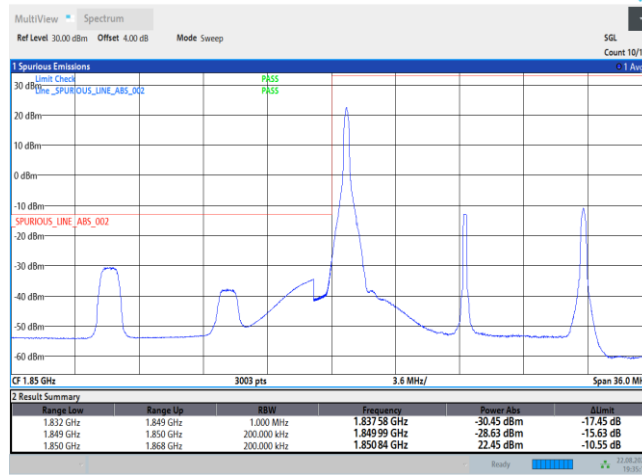


19:34:21 22.08.2022



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



19:35:10 22.08.2022

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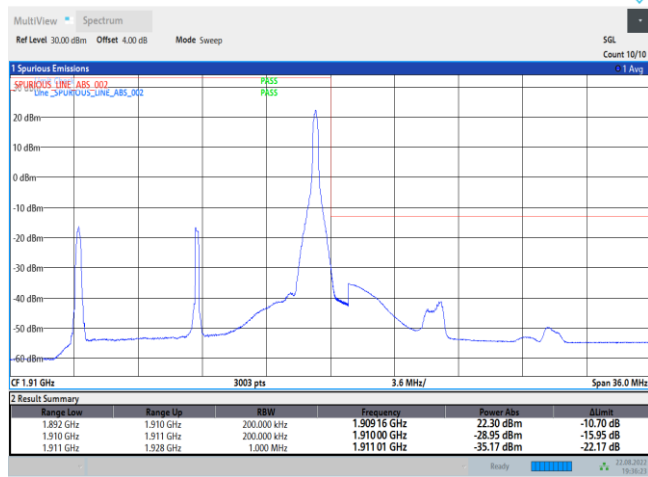
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Band2-15MHz-QPSK-19125-1RB#74



19:36:24 22.08.2022

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

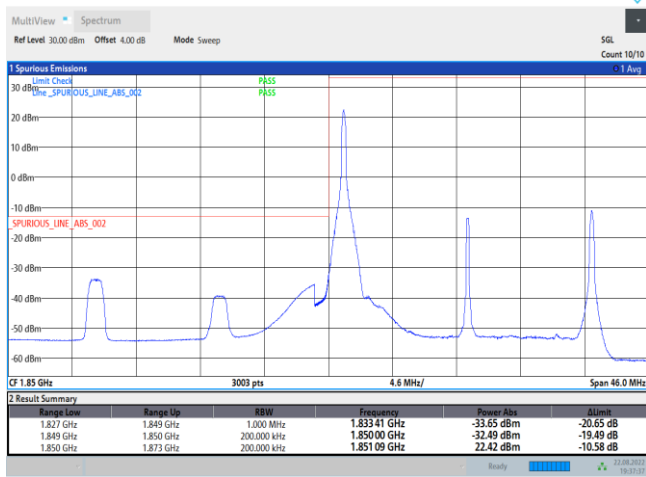


19:36:47 22.08.2022



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



19:37:38 22.08.2022

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



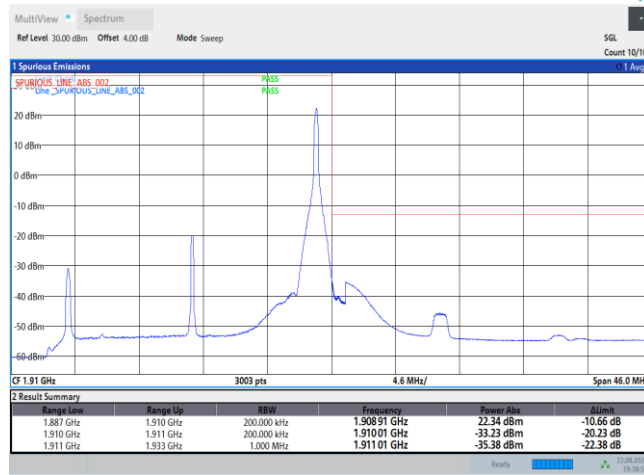
19:38:01 22.08.2022



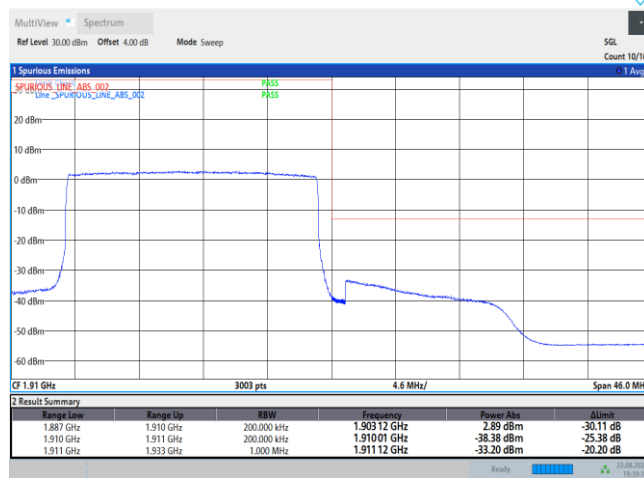
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Band2-20MHz-QPSK-19100-1RB#99



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



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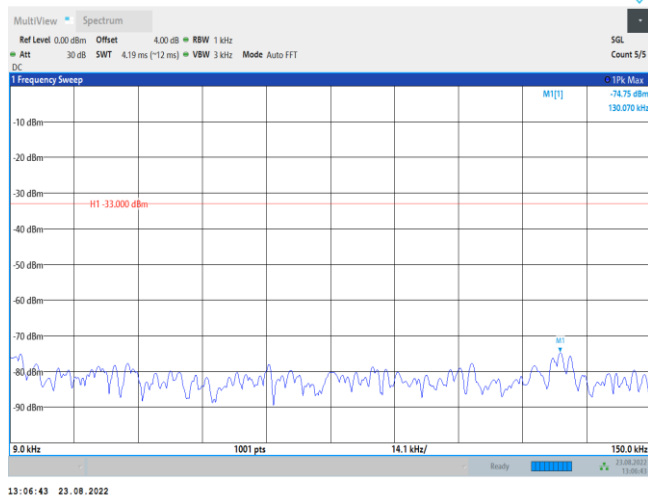
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## Conducted Spurious Emission

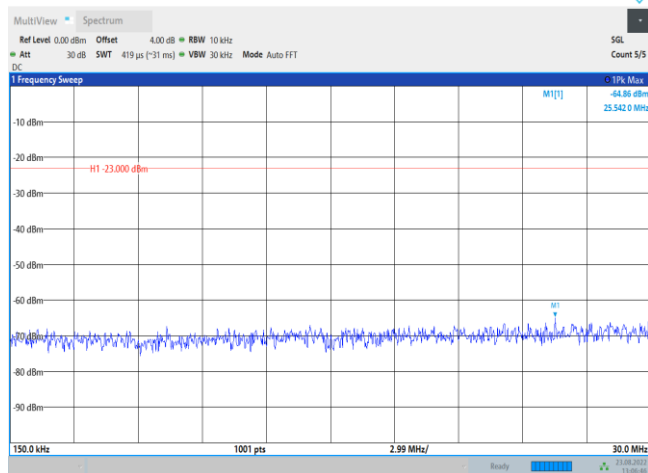
### Test Graphs

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



13:06:43 23.08.2022

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



13:06:47 23.08.2022

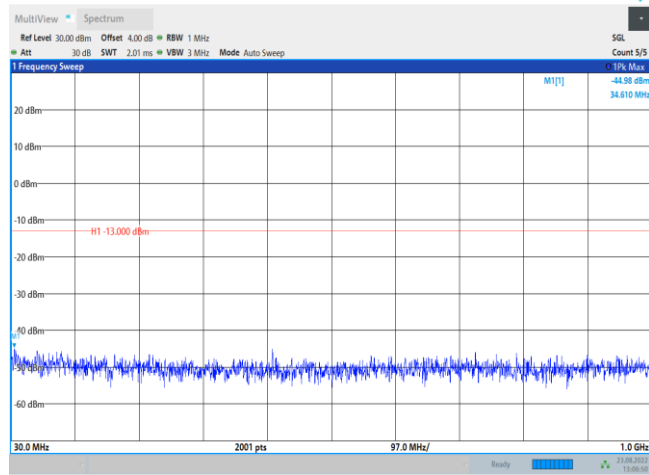


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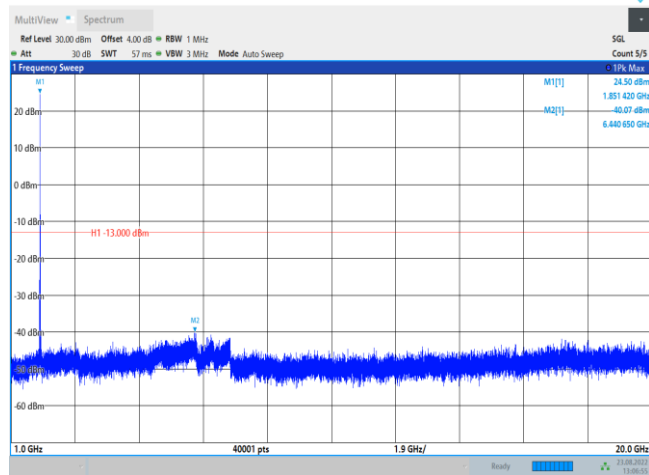
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



13:06:51 23.08.2022

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



13:06:55 23.08.2022

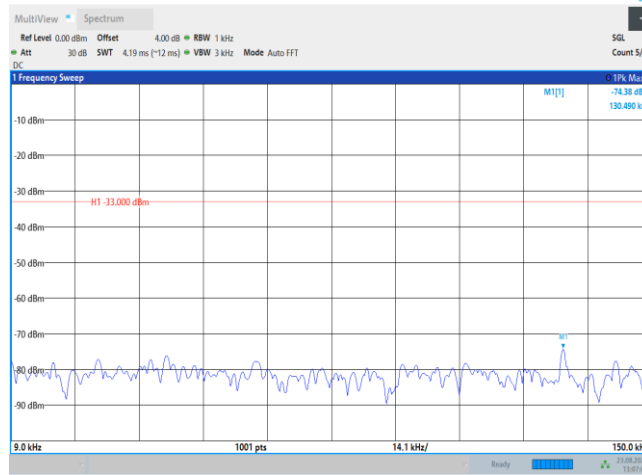


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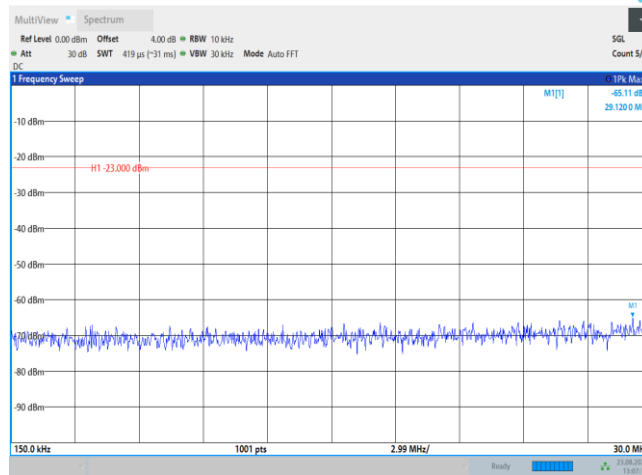
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



13:07:09 23.08.2022

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



13:07:13 23.08.2022



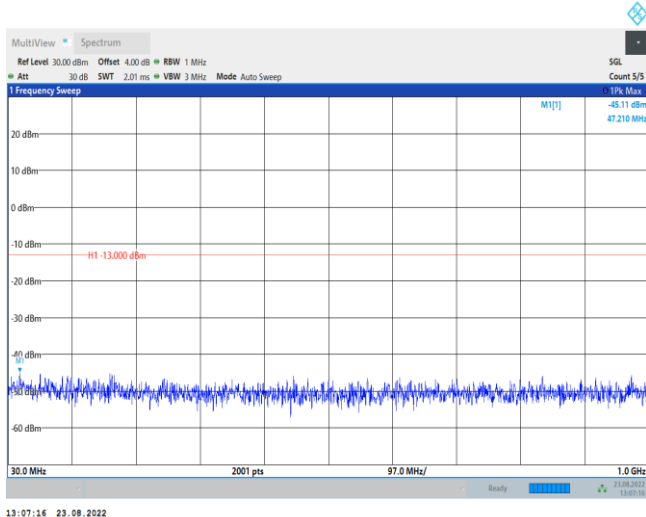
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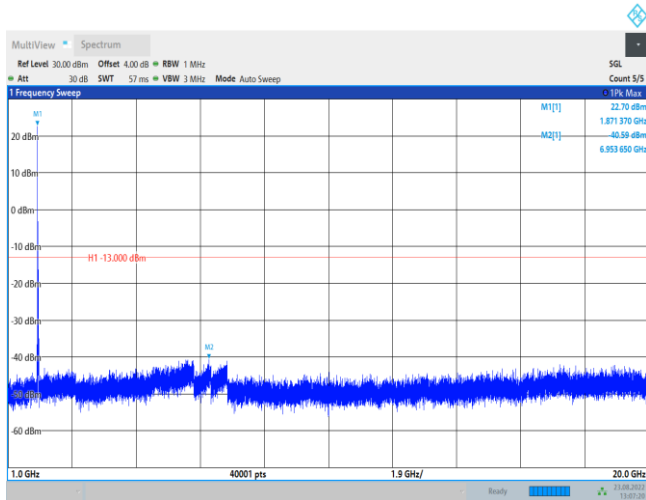
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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



13:07:16 23.08.2022

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



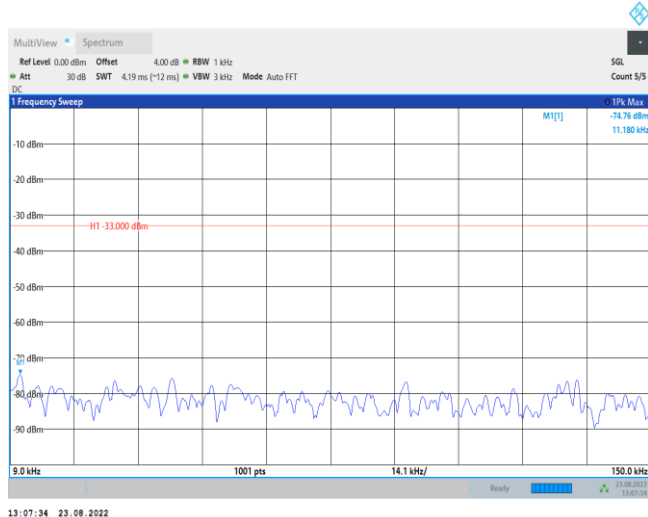
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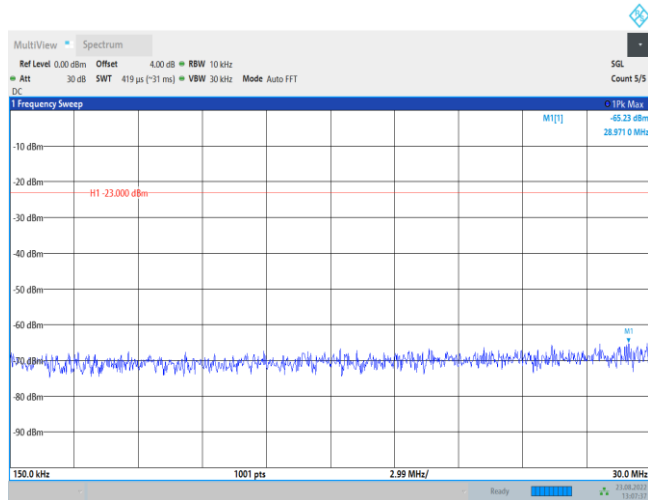


Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



13:07:34 23.08.2022

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

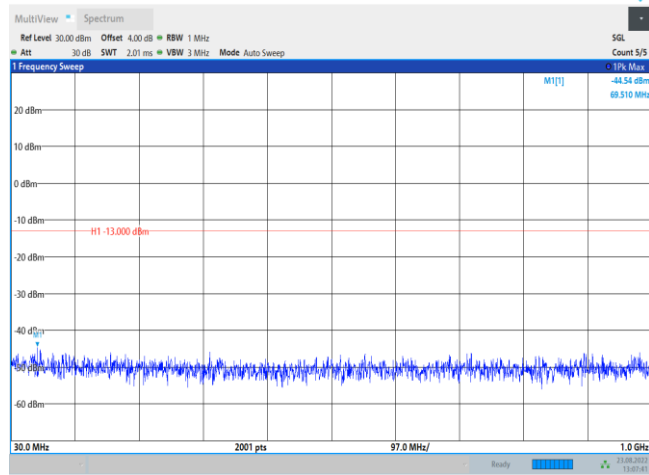


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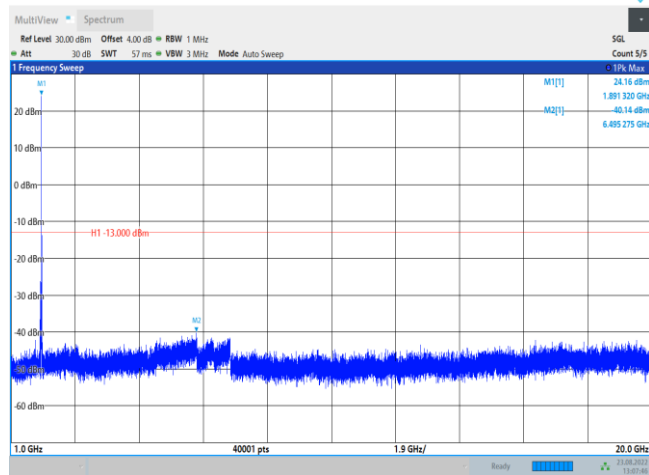
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



13:07:42 23.08.2022

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



13:07:47 23.08.2022



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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	3702.1800	65.46	-45.51	29.98	-45.33	-13.00	32.33	213	198	Horizontal
2	5553.2700	61.95	-45.15	32.97	-45.49	-13.00	32.49	261	337	Horizontal
3	7404.3600	44.25	-43.40	36.49	-57.92	-13.00	44.92	154	184	Horizontal
4	9255.4500	35.10	-40.23	38.38	-62.01	-13.00	49.01	125	169	Horizontal
5	11106.5400	30.07	-37.93	39.09	-64.03	-13.00	51.03	174	62	Horizontal
6	12957.6300	30.84	-37.24	39.79	-61.87	-13.00	48.87	152	358	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	72.87	-45.51	29.98	-37.92	-13.00	24.92	215	319	Vertical
2	5553.2700	56.70	-45.15	32.97	-50.74	-13.00	37.74	163	334	Vertical
3	7404.3600	44.13	-43.40	36.49	-58.04	-13.00	45.04	215	347	Vertical
4	9255.4500	36.33	-40.23	38.38	-60.78	-13.00	47.78	145	305	Vertical
5	11106.5400	30.27	-37.93	39.09	-63.83	-13.00	50.83	196	31	Vertical
6	12957.6300	31.12	-37.24	39.79	-61.59	-13.00	48.59	142	360	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	60.72	-45.68	30.12	-50.10	-13.00	37.10	165	304	Horizontal
2	5613	71.51	-45.04	33.07	-35.72	-13.00	22.72	142	4	Horizontal
3	7484.3600	43.82	-43.18	36.45	-58.17	-13.00	45.17	195	4	Horizontal
4	9355.4500	37.47	-40.00	38.46	-59.34	-13.00	46.34	142	360	Horizontal
5	11226.5400	34.42	-37.40	39.11	-59.13	-13.00	46.13	263	289	Horizontal
6	13097.6300	29.77	-37.01	39.87	-62.62	-13.00	49.62	211	358	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	70.96	-45.68	30.12	-39.86	-13.00	26.86	165	335	Vertical
2	5613.2700	60.34	-45.04	33.07	-46.89	-13.00	33.89	145	92	Vertical
3	7484.3600	44.47	-43.18	36.45	-57.52	-13.00	44.52	192	182	Vertical
4	9355.4500	37.62	-40.00	38.46	-59.19	-13.00	46.19	140	182	Vertical
5	11226.5400	34.08	-37.40	39.11	-59.47	-13.00	46.47	174	360	Vertical
6	13097.6300	30.97	-37.01	39.87	-61.42	-13.00	48.42	136	152	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	60.24	-45.85	30.27	-50.60	-13.00	37.60	154	62	Horizontal
2	5673	70.86	-44.91	33.29	-36.02	-13.00	23.02	126	359	Horizontal
3	7564.3600	44.32	-43.00	36.41	-57.54	-13.00	44.54	251	4	Horizontal
4	9455.4500	40.45	-40.05	38.48	-56.39	-13.00	43.39	145	245	Horizontal
5	11346.5400	33.84	-37.40	39.11	-59.71	-13.00	46.71	195	184	Horizontal
6	13237.6300	31.24	-37.08	39.96	-61.13	-13.00	48.13	170	47	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	71.48	-45.85	30.27	-39.36	-13.00	26.36	125	304	Vertical
2	5673.2700	56.23	-44.91	33.29	-50.65	-13.00	37.65	154	210	Vertical
3	7564.3600	46.29	-43.00	36.41	-55.57	-13.00	42.57	216	4	Vertical
4	9455.4500	39.58	-40.05	38.48	-57.26	-13.00	44.26	236	227	Vertical
5	11346.5400	34.31	-37.40	39.11	-59.24	-13.00	46.24	261	75	Vertical
6	13237.6300	32.45	-37.08	39.96	-59.92	-13.00	46.92	145	197	Vertical

**Remark:**

The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading Level(dBuV)} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Pre-amplifier gain (dB)}$$

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$

$$\text{dBuV} = \text{dbm} + 95.26$$



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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	-2.00	-0.001064	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-2.10	-0.001117	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-0.90	-0.000479	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-1.80	-0.000957	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-2.10	-0.001117	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-3.30	-0.001755	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-2.50	-0.001330	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-3.50	-0.001862	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-3.10	-0.001649	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-4.40	-0.002340	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-3.00	-0.001596	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-2.60	-0.001383	PASS

---End of Attachment---



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