

Appendix B.6

LTE Band 7



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Effective (Isotropic) Radiated Power Output Data for

SEWM2307000261RG01

Test Result

Ant3:

Table with 9 columns: Band, Bandwidth, Modulation, Channel, RB Configuration, Result(dBm), EIRP(dBm), Limit(dBm), Verdict. It contains 30 rows of test data for various modulation schemes and RB configurations.



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Band7	5MHz	64QAM	21100	1RB#12	22.42	21.22	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	22.31	21.11	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	21.41	20.21	33	PASS
Band7	5MHz	256QAM	21100	1RB#0	19.76	18.56	33	PASS
Band7	5MHz	256QAM	21100	1RB#12	19.53	18.33	33	PASS
Band7	5MHz	256QAM	21100	1RB#24	19.48	18.28	33	PASS
Band7	5MHz	256QAM	21100	25RB#0	19.47	18.27	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	24.16	22.96	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	24.15	22.95	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	24.15	22.95	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	23.15	21.95	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	23.23	22.03	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	23.25	22.05	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	23.26	22.06	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	22.40	21.20	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	22.39	21.19	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	22.35	21.15	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	22.34	21.14	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	21.47	20.27	33	PASS
Band7	5MHz	256QAM	21425	1RB#0	19.60	18.40	33	PASS
Band7	5MHz	256QAM	21425	1RB#12	19.64	18.44	33	PASS
Band7	5MHz	256QAM	21425	1RB#24	19.68	18.48	33	PASS
Band7	5MHz	256QAM	21425	25RB#0	19.69	18.49	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	24.15	22.95	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	24.18	22.98	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	24.13	22.93	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	23.13	21.93	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	23.29	22.09	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	23.32	22.12	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	23.24	22.04	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	22.34	21.14	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	22.45	21.25	33	PASS



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Band7	10MHz	64QAM	20800	1RB#24	22.41	21.21	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	22.45	21.25	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	21.54	20.34	33	PASS
Band7	10MHz	256QAM	20800	1RB#0	19.46	18.26	33	PASS
Band7	10MHz	256QAM	20800	1RB#24	19.46	18.26	33	PASS
Band7	10MHz	256QAM	20800	1RB#49	19.63	18.43	33	PASS
Band7	10MHz	256QAM	20800	50RB#0	19.54	18.34	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	24.26	23.06	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	24.24	23.04	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	24.23	23.03	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	23.27	22.07	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	23.33	22.13	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.27	22.07	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.25	22.05	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	22.25	21.05	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	22.30	21.10	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	22.39	21.19	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	22.25	21.05	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	21.39	20.19	33	PASS
Band7	10MHz	256QAM	21100	1RB#0	19.75	18.55	33	PASS
Band7	10MHz	256QAM	21100	1RB#24	19.53	18.33	33	PASS
Band7	10MHz	256QAM	21100	1RB#49	19.46	18.26	33	PASS
Band7	10MHz	256QAM	21100	50RB#0	19.40	18.20	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	24.10	22.90	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	24.10	22.90	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	24.16	22.96	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	23.19	21.99	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.34	22.14	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.28	22.08	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	23.30	22.10	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	22.32	21.12	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	22.36	21.16	33	PASS



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Band7	10MHz	64QAM	21400	1RB#49	22.33	21.13	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	21.51	20.31	33	PASS
Band7	10MHz	256QAM	21400	1RB#0	19.54	18.34	33	PASS
Band7	10MHz	256QAM	21400	1RB#24	19.55	18.35	33	PASS
Band7	10MHz	256QAM	21400	1RB#49	19.70	18.50	33	PASS
Band7	10MHz	256QAM	21400	50RB#0	19.66	18.46	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	24.13	22.93	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	24.10	22.90	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	24.13	22.93	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	23.20	22.00	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	23.33	22.13	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.37	22.17	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	23.26	22.06	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	22.34	21.14	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	22.44	21.24	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	22.44	21.24	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	22.47	21.27	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	21.53	20.33	33	PASS
Band7	15MHz	256QAM	20825	1RB#0	19.55	18.35	33	PASS
Band7	15MHz	256QAM	20825	1RB#38	19.46	18.26	33	PASS
Band7	15MHz	256QAM	20825	1RB#74	19.67	18.47	33	PASS
Band7	15MHz	256QAM	20825	75RB#0	19.49	18.29	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	24.20	23.00	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	24.25	23.05	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	24.24	23.04	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	23.22	22.02	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	23.32	22.12	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.24	22.04	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	23.27	22.07	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	22.31	21.11	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	22.36	21.16	33	PASS



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Band7	15MHz	64QAM	21100	1RB#74	22.26	21.06	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	21.42	20.22	33	PASS
Band7	15MHz	256QAM	21100	1RB#0	19.72	18.52	33	PASS
Band7	15MHz	256QAM	21100	1RB#38	19.56	18.36	33	PASS
Band7	15MHz	256QAM	21100	1RB#74	19.39	18.19	33	PASS
Band7	15MHz	256QAM	21100	75RB#0	19.43	18.23	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	24.14	22.94	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	24.11	22.91	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	24.19	22.99	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	23.17	21.97	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	23.32	22.12	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	23.23	22.03	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	23.23	22.03	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	22.41	21.21	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	22.31	21.11	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	22.36	21.16	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	22.37	21.17	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	21.40	20.20	33	PASS
Band7	15MHz	256QAM	21375	1RB#0	19.58	18.38	33	PASS
Band7	15MHz	256QAM	21375	1RB#38	19.62	18.42	33	PASS
Band7	15MHz	256QAM	21375	1RB#74	19.70	18.50	33	PASS
Band7	15MHz	256QAM	21375	75RB#0	19.70	18.50	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	24.21	23.01	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	24.16	22.96	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	24.17	22.97	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	23.21	22.01	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	23.35	22.15	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.42	22.22	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	23.34	22.14	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	22.44	21.24	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	22.44	21.24	33	PASS



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Band7	20MHz	64QAM	20850	1RB#99	22.45	21.25	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	21.52	20.32	33	PASS
Band7	20MHz	256QAM	20850	1RB#0	19.51	18.31	33	PASS
Band7	20MHz	256QAM	20850	1RB#49	19.49	18.29	33	PASS
Band7	20MHz	256QAM	20850	1RB#99	19.69	18.49	33	PASS
Band7	20MHz	256QAM	20850	100RB#0	19.59	18.39	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	24.29	23.09	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	24.25	23.05	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	24.25	23.05	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	23.29	22.09	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	23.40	22.20	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.33	22.13	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	23.30	22.10	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	22.35	21.15	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	22.39	21.19	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	22.39	21.19	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	22.40	21.20	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	21.39	20.19	33	PASS
Band7	20MHz	256QAM	21100	1RB#0	19.77	18.57	33	PASS
Band7	20MHz	256QAM	21100	1RB#49	19.57	18.37	33	PASS
Band7	20MHz	256QAM	21100	1RB#99	19.42	18.22	33	PASS
Band7	20MHz	256QAM	21100	100RB#0	19.51	18.31	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	24.25	23.05	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	24.17	22.97	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	24.24	23.04	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	23.18	21.98	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	23.28	22.08	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	23.28	22.08	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	23.34	22.14	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	22.37	21.17	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	22.39	21.19	33	PASS



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Report No.: SEWM2309000395RG01

Rev.: 01

Page: 8 of 54

Band7	20MHz	64QAM	21350	1RB#49	22.35	21.15	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	22.33	21.13	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	21.51	20.31	33	PASS
Band7	20MHz	256QAM	21350	1RB#0	19.57	18.37	33	PASS
Band7	20MHz	256QAM	21350	1RB#49	19.59	18.39	33	PASS
Band7	20MHz	256QAM	21350	1RB#99	19.73	18.53	33	PASS
Band7	20MHz	256QAM	21350	100RB#0	19.71	18.51	33	PASS



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Effective (Isotropic) Radiated Power Output Data for

SEWM2309000395RG01

Test Result

Ant3:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band7	20MHz	QPSK	21100	1RB#0	24.16	22.96	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	24.09	22.89	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	24.17	22.97	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	23.18	21.98	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

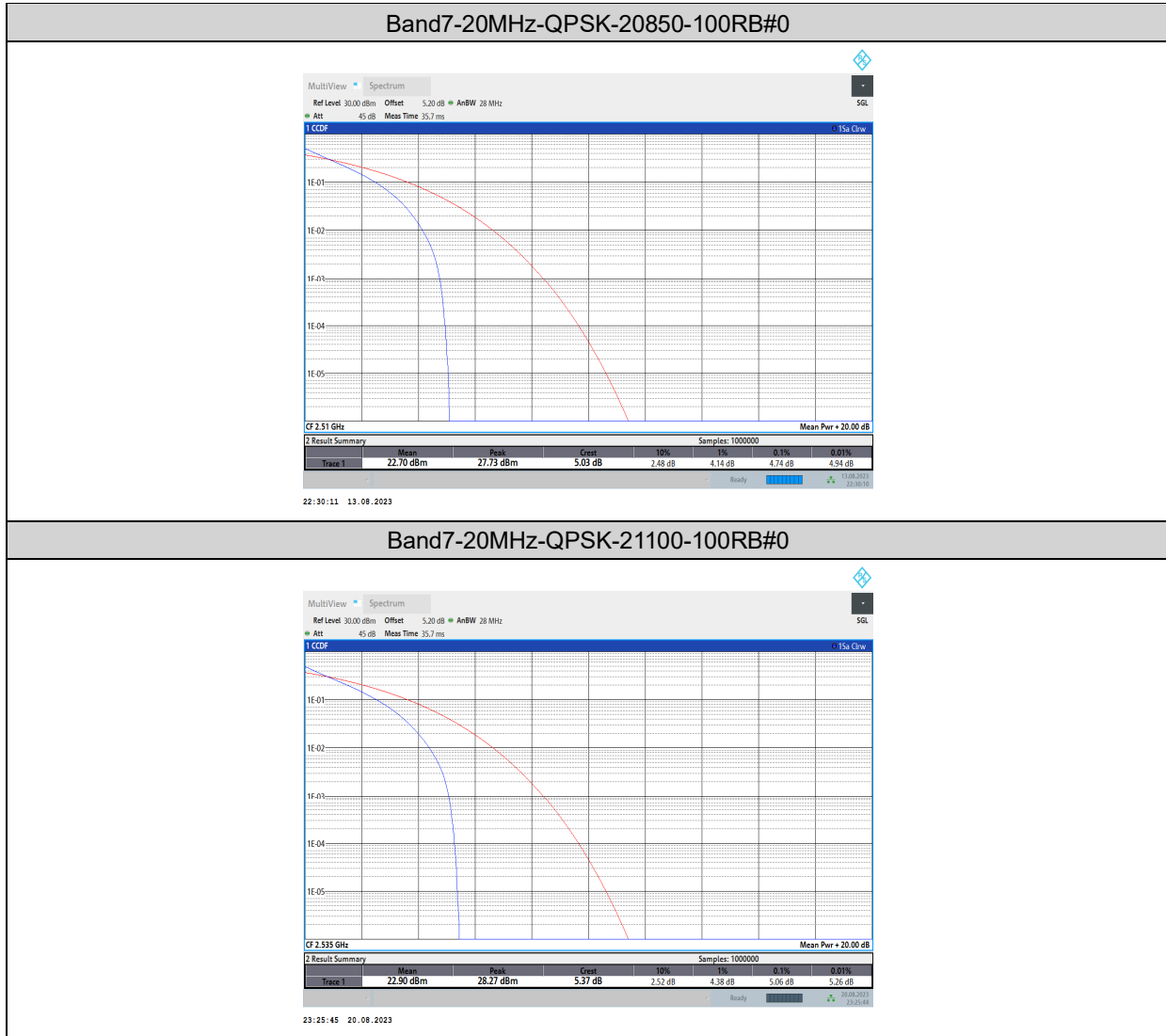
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	4.74	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.06	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	4.72	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.58	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.88	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.60	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.26	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.46	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.14	13	PASS
Band7	20MHz	256QAM	20850	100RB#0	6.70	13	PASS
Band7	20MHz	256QAM	21100	100RB#0	6.74	13	PASS
Band7	20MHz	256QAM	21350	100RB#0	6.76	13	PASS



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Test Graphs

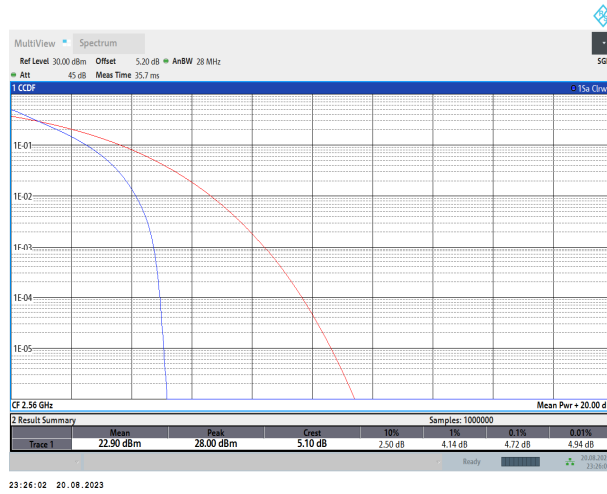


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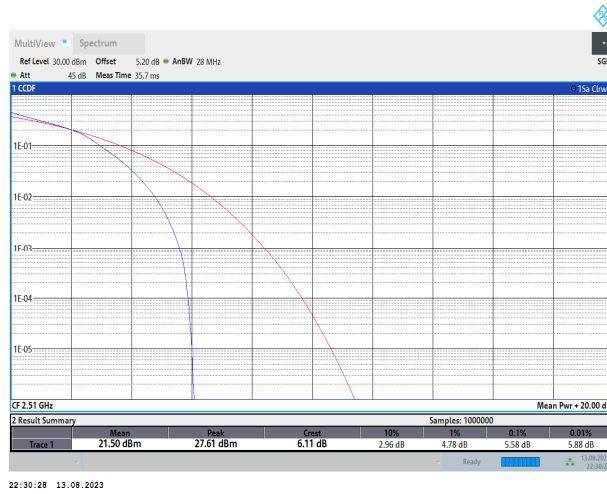
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Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0

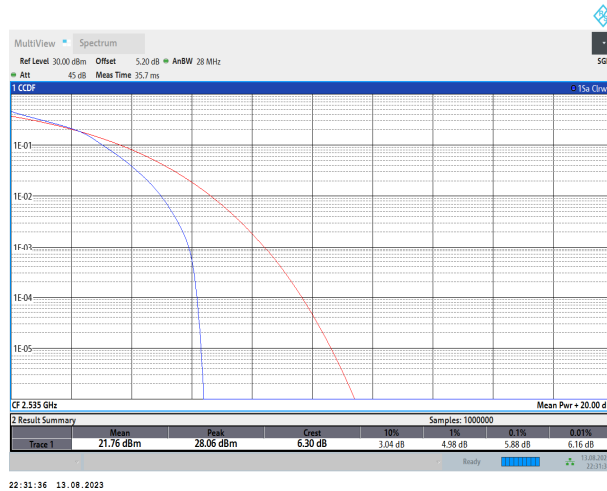


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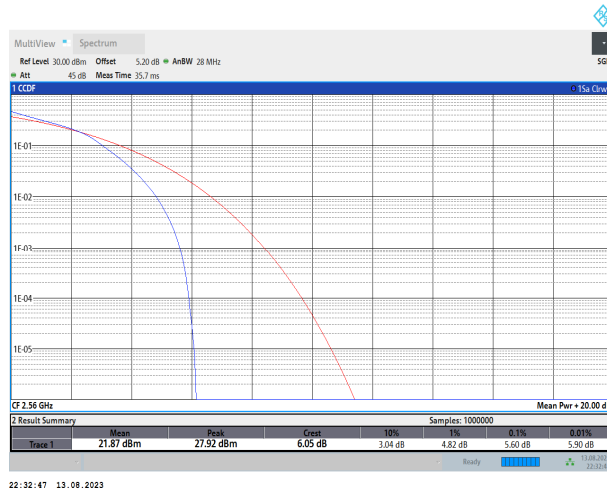
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Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#0

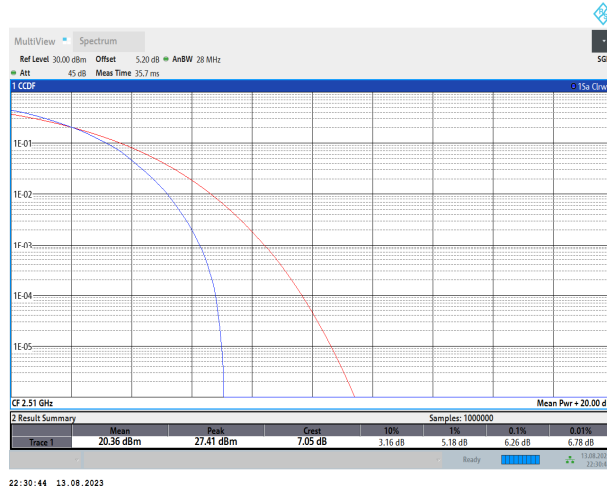


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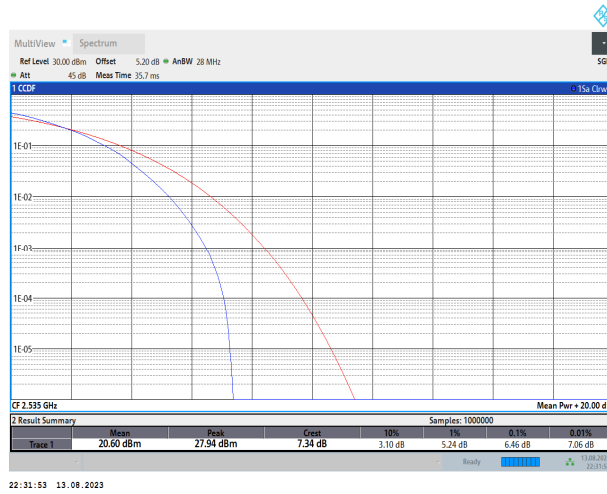
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Band7-20MHz-64QAM-20850-100RB#0



Band7-20MHz-64QAM-21100-100RB#0

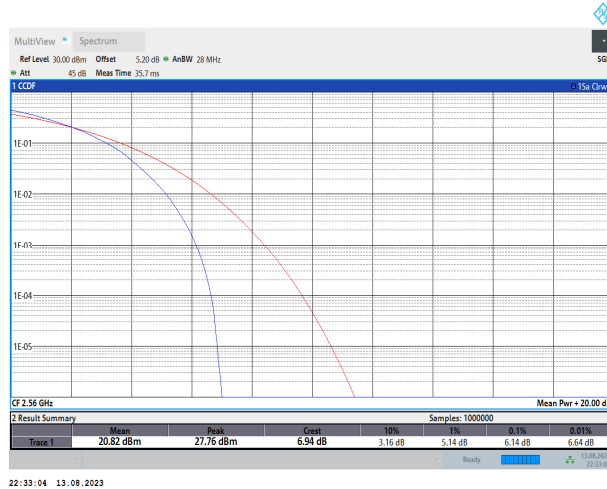


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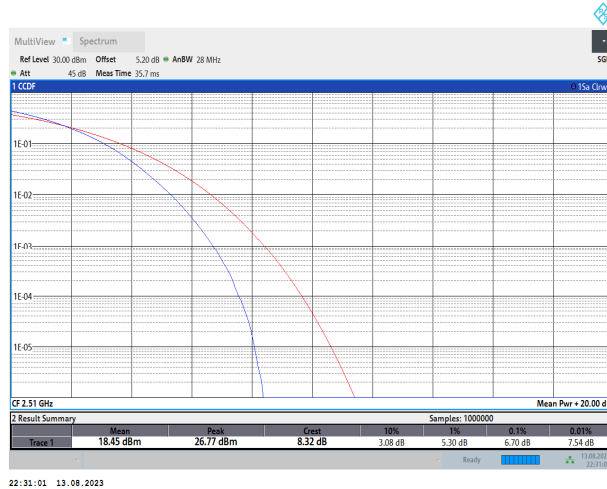
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Band7-20MHz-64QAM-21350-100RB#0



Band7-20MHz-256QAM-20850-100RB#0

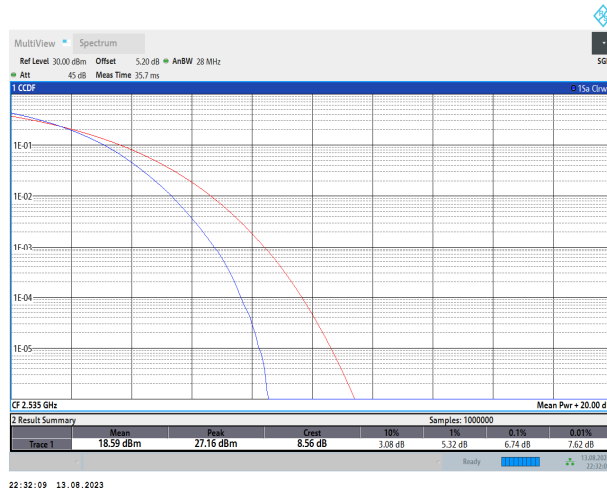


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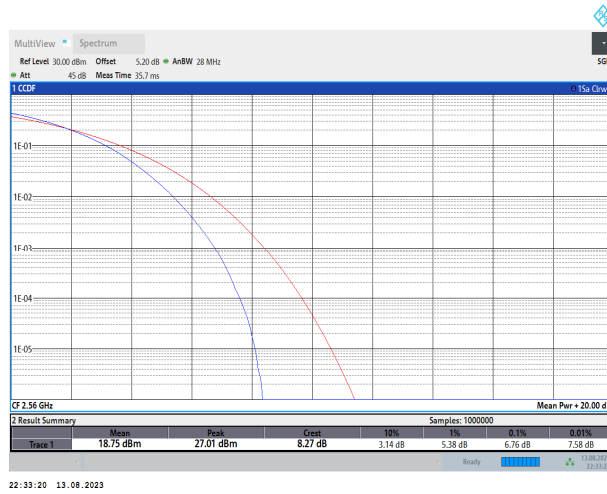
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Band7-20MHz-256QAM-21100-100RB#0



Band7-20MHz-256QAM-21350-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

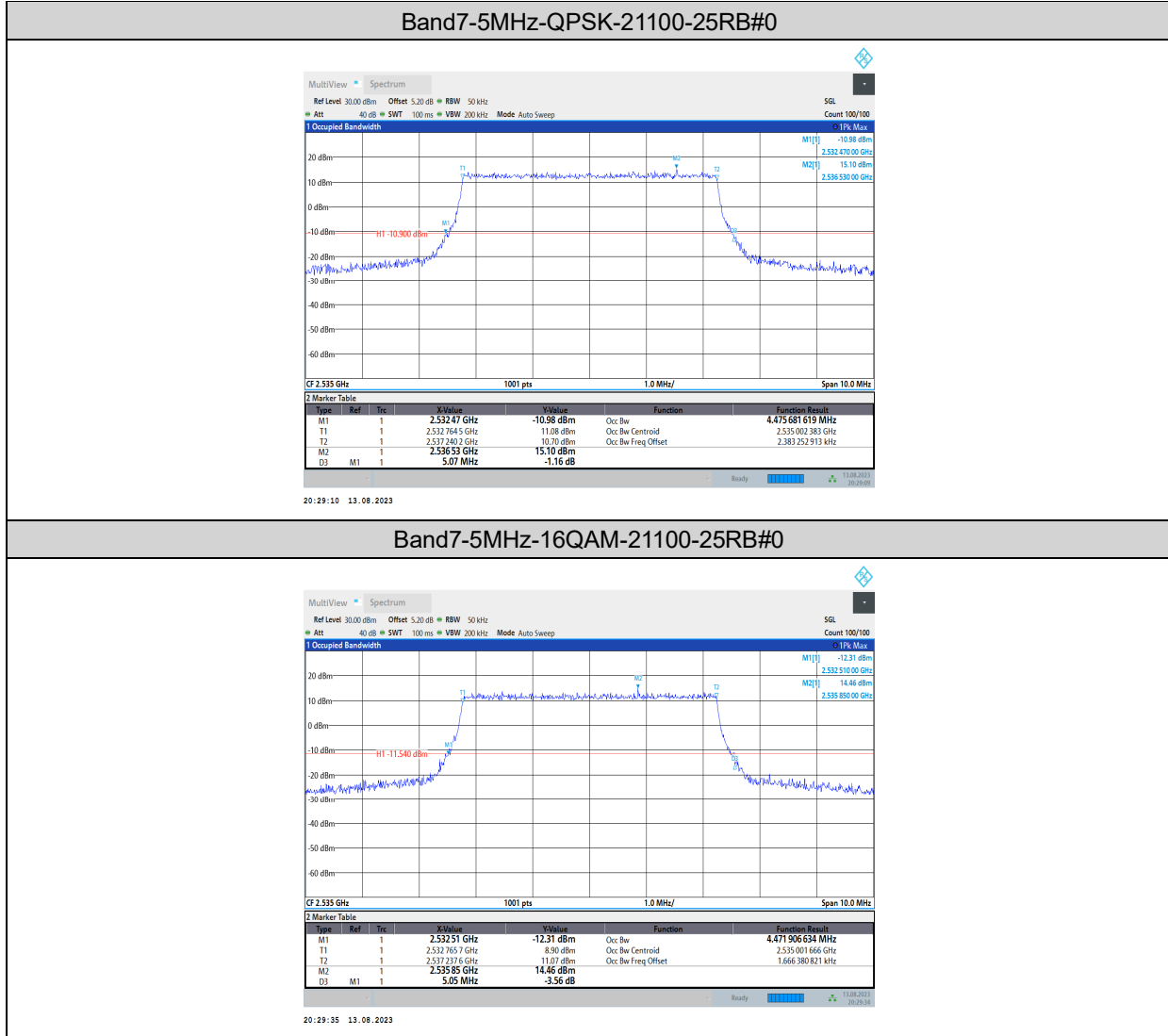
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	21100	25RB#0	4.476	5.07	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.472	5.05	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.482	5.02	PASS
Band7	5MHz	256QAM	21100	25RB#0	4.482	5.09	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.955	9.78	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.952	9.88	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.940	9.90	PASS
Band7	10MHz	256QAM	21100	50RB#0	8.954	9.94	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.506	15.09	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.495	14.91	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.477	15.06	PASS
Band7	15MHz	256QAM	21100	75RB#0	13.482	14.97	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.950	19.84	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.929	19.76	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.929	19.60	PASS
Band7	20MHz	256QAM	21100	100RB#0	17.923	19.72	PASS



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Test Graphs

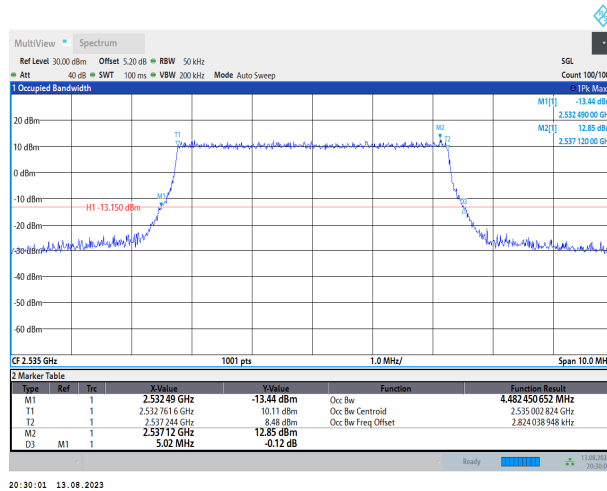


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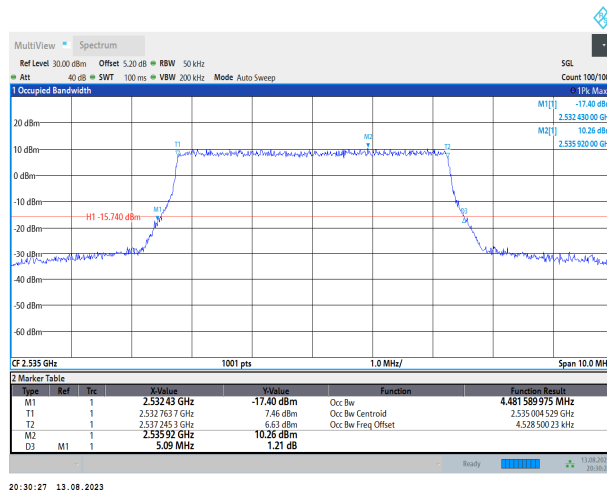
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Band7-5MHz-64QAM-21100-25RB#0



Band7-5MHz-256QAM-21100-25RB#0

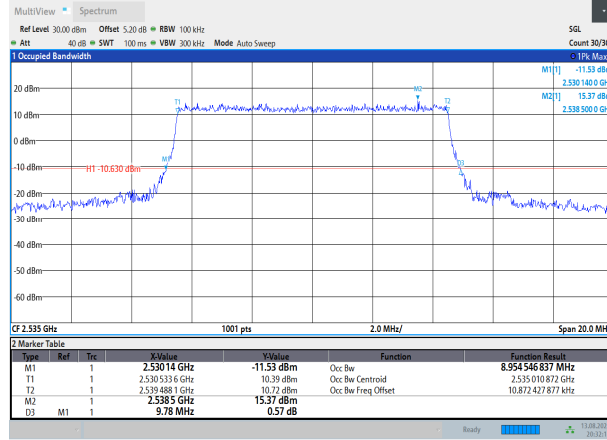


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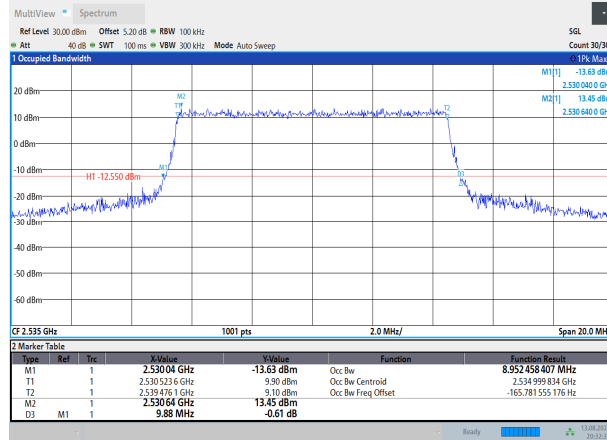
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Band7-10MHz-QPSK-21100-50RB#0



20:32:15 13.08.2023

Band7-10MHz-16QAM-21100-50RB#0



20:32:33 13.08.2023

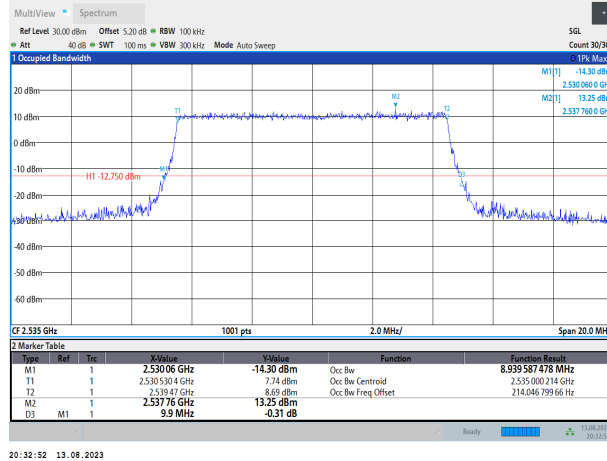


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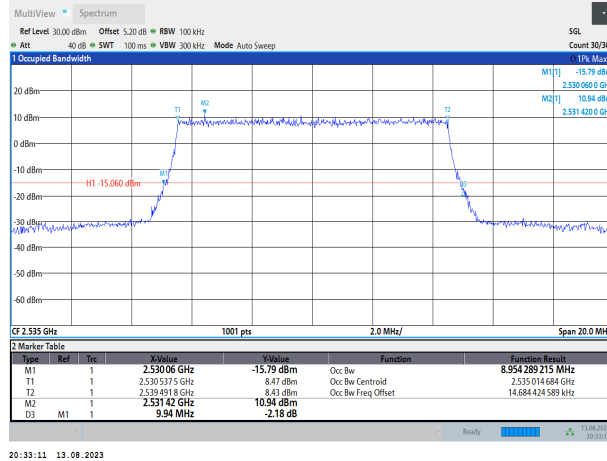
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Band7-10MHz-64QAM-21100-50RB#0



Band7-10MHz-256QAM-21100-50RB#0

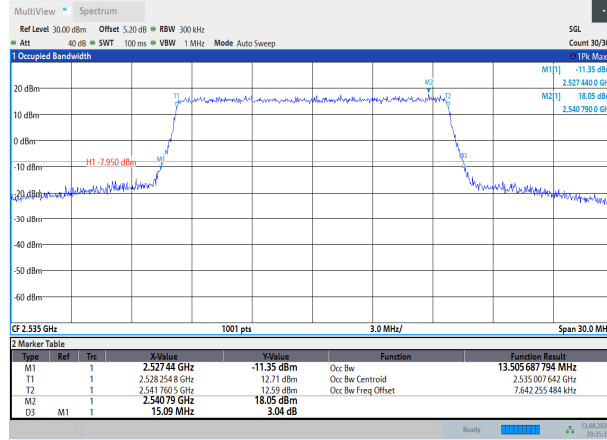


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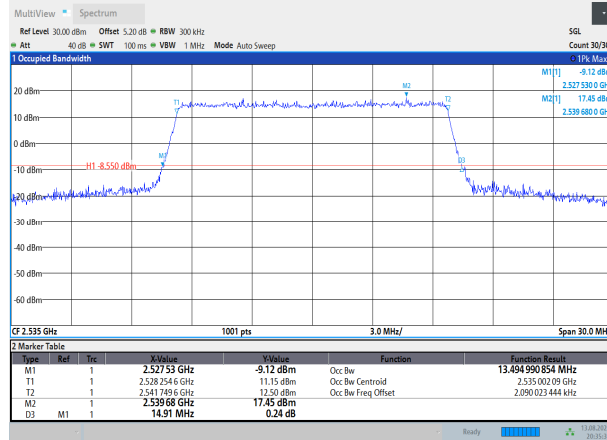
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Band7-15MHz-QPSK-21100-75RB#0



20:35:22 13.08.2023

Band7-15MHz-16QAM-21100-75RB#0



20:35:40 13.08.2023

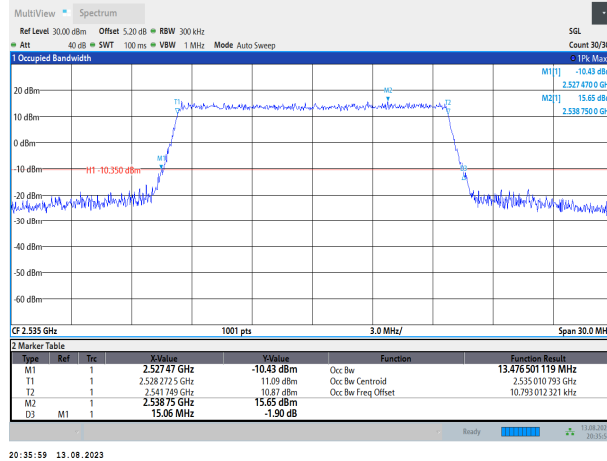


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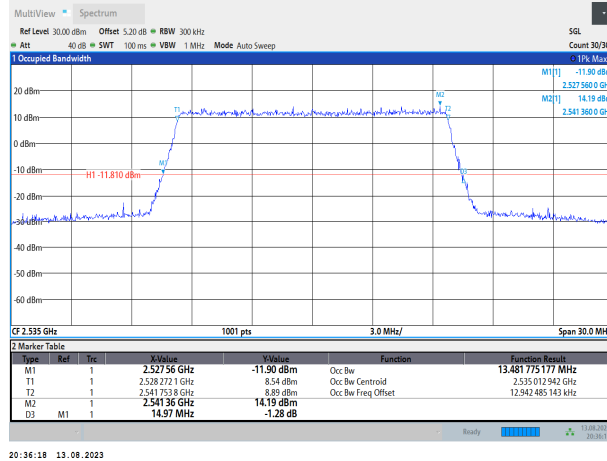
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Band7-15MHz-64QAM-21100-75RB#0



Band7-15MHz-256QAM-21100-75RB#0

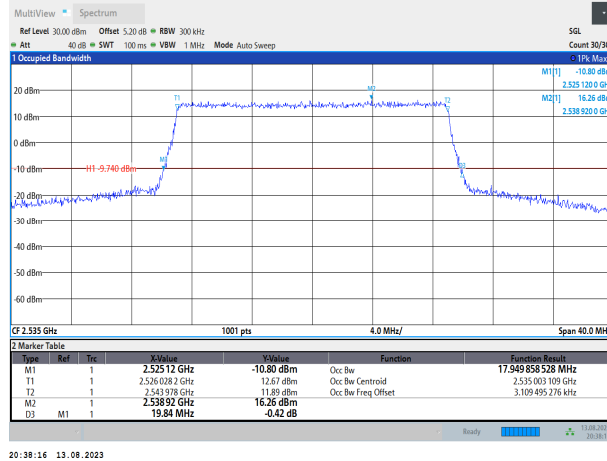


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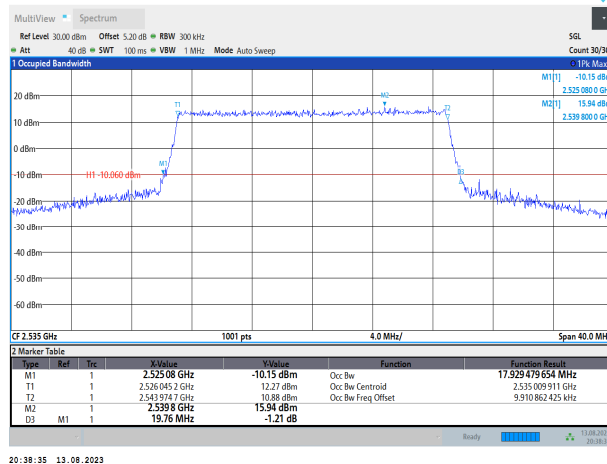
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Band7-20MHz-QPSK-21100-100RB#0



Band7-20MHz-16QAM-21100-100RB#0

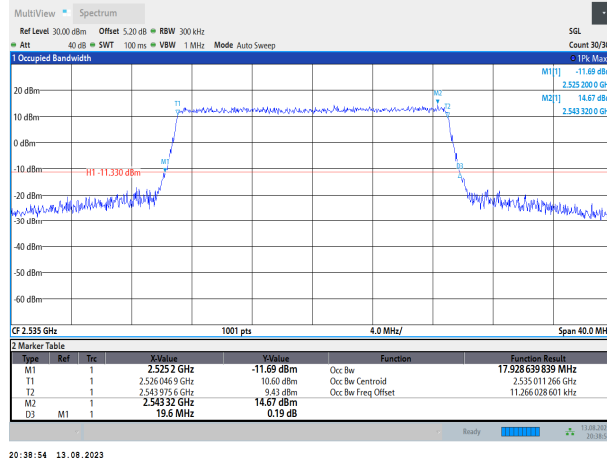


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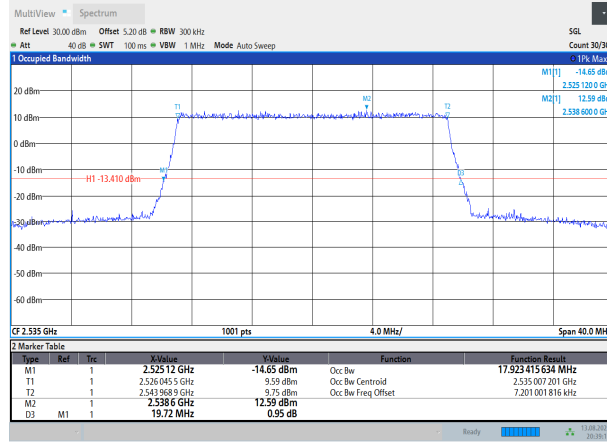
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Band7-20MHz-64QAM-21100-100RB#0



20:38:54 13.08.2023

Band7-20MHz-256QAM-21100-100RB#0



20:39:13 13.08.2023



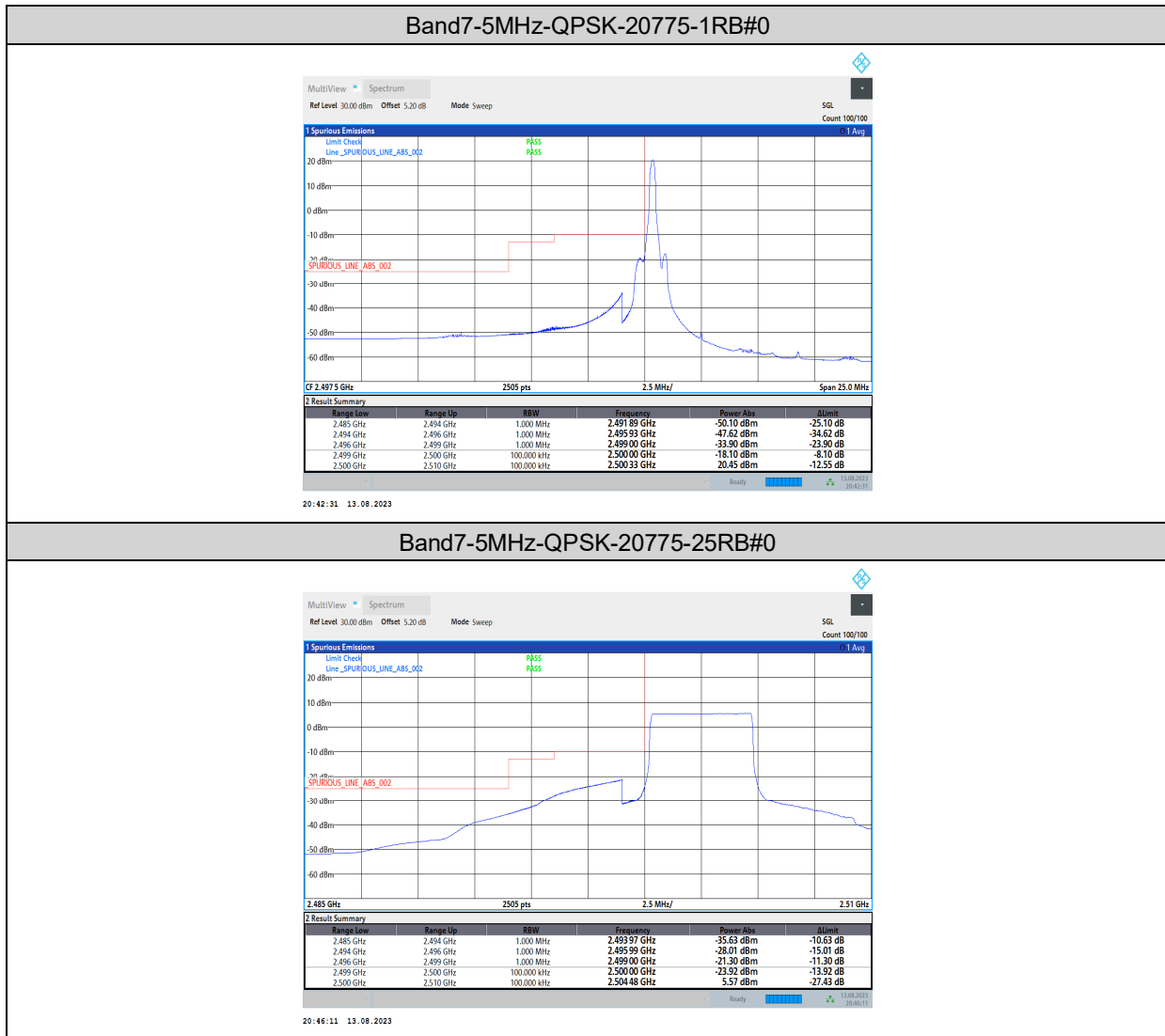
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Band Edge

Test Graphs

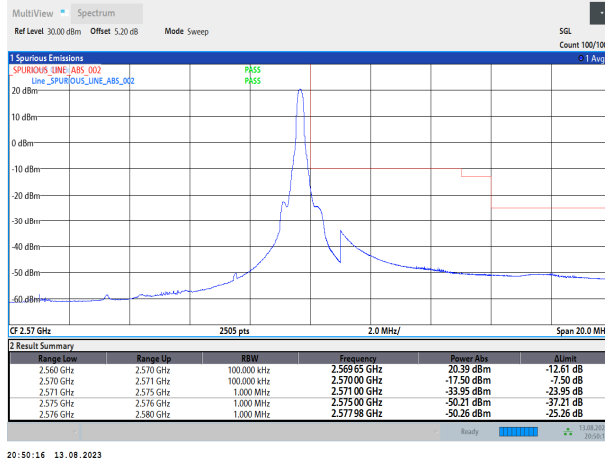


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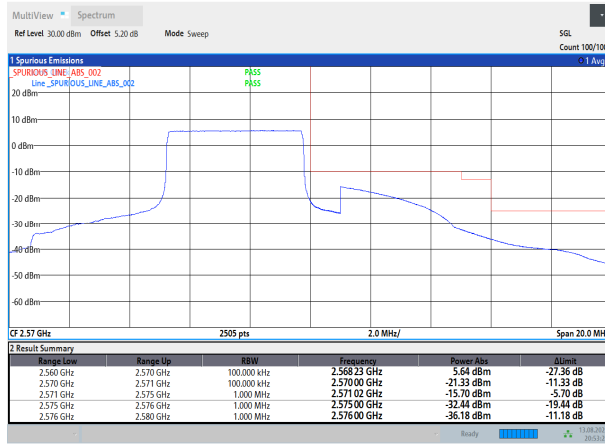
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Band7-5MHz-QPSK-21425-1RB#24



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Band7-5MHz-QPSK-21425-25RB#0



20:53:27 13.08.2023

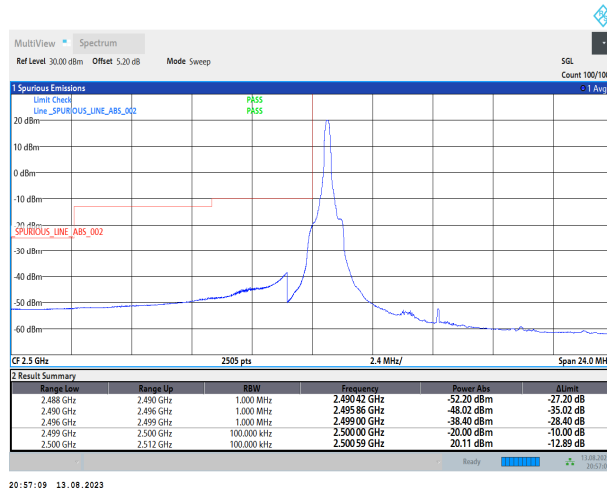


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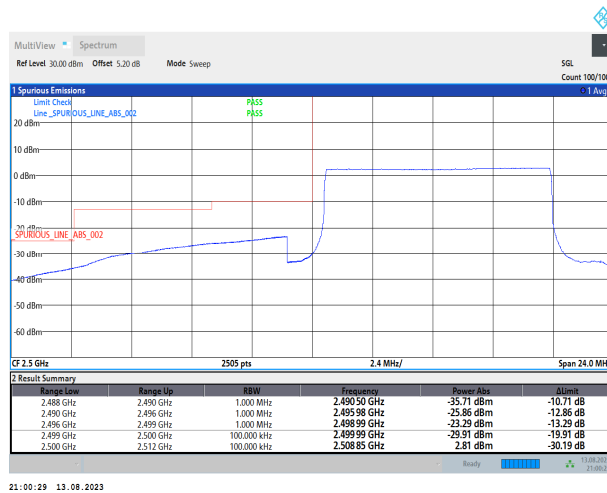
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Band7-10MHz-QPSK-20800-1RB#0



Band7-10MHz-QPSK-20800-50RB#0

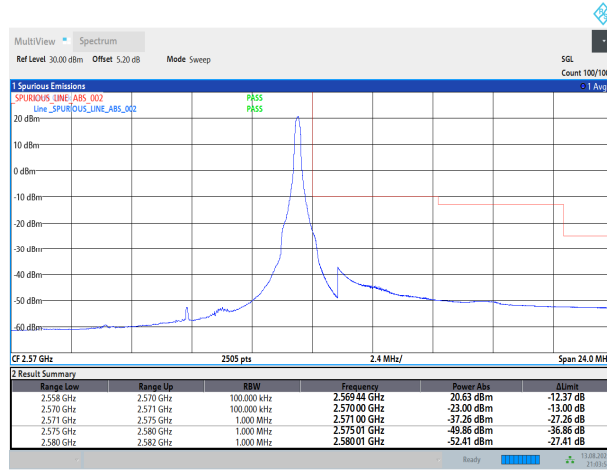


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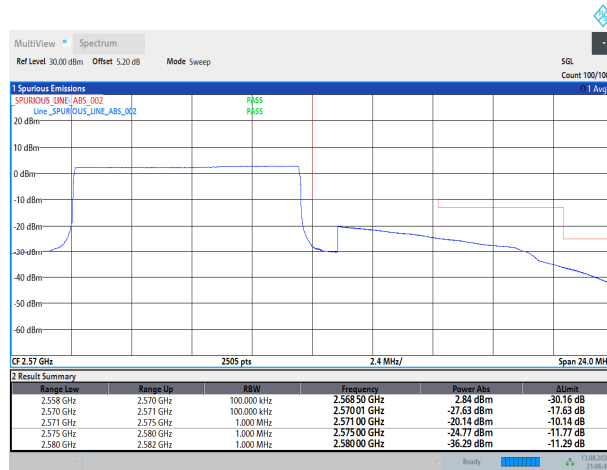
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Band7-10MHz-QPSK-21400-1RB#49



21:03:51 13.08.2023

Band7-10MHz-QPSK-21400-50RB#0



21:06:45 13.08.2023

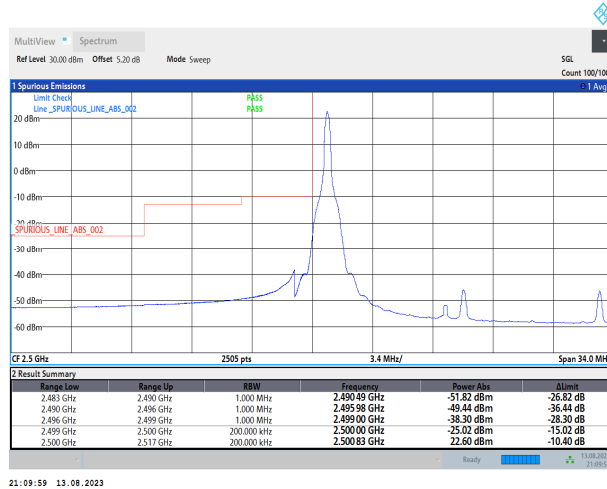


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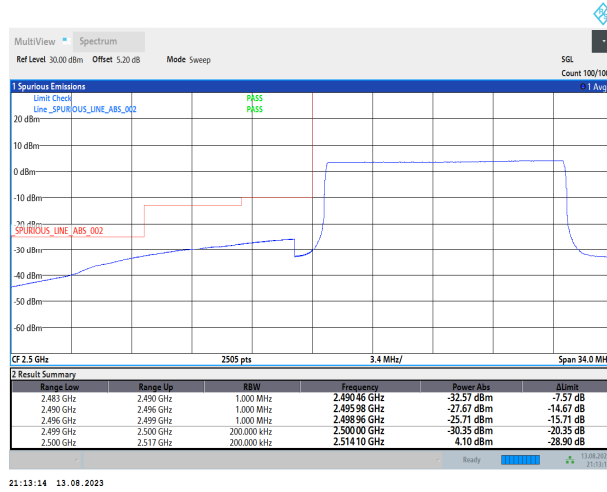
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Band7-15MHz-QPSK-20825-1RB#0



Band7-15MHz-QPSK-20825-75RB#0

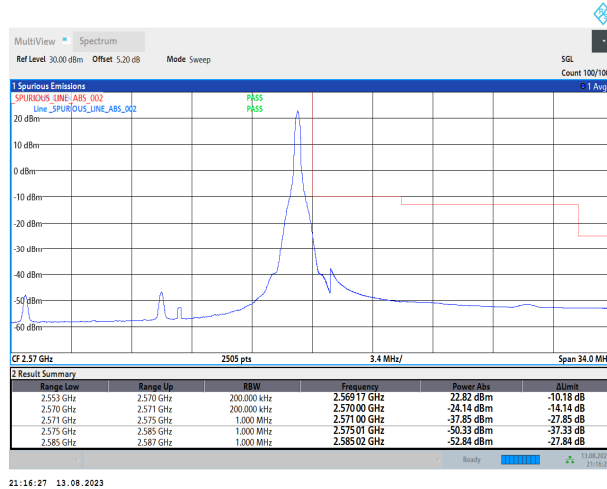


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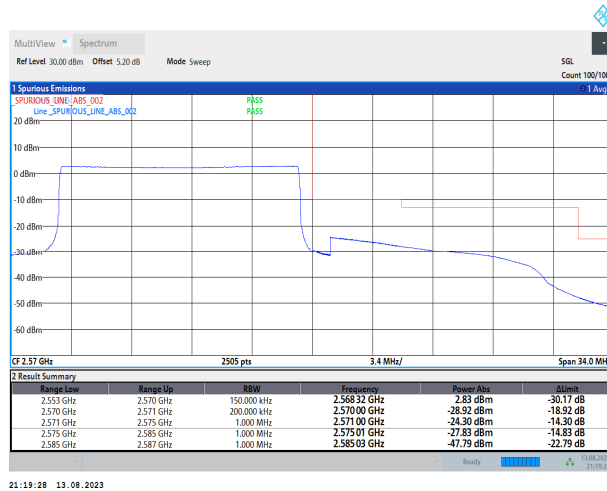
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Band7-15MHz-QPSK-21375-1RB#74



Band7-15MHz-QPSK-21375-75RB#0

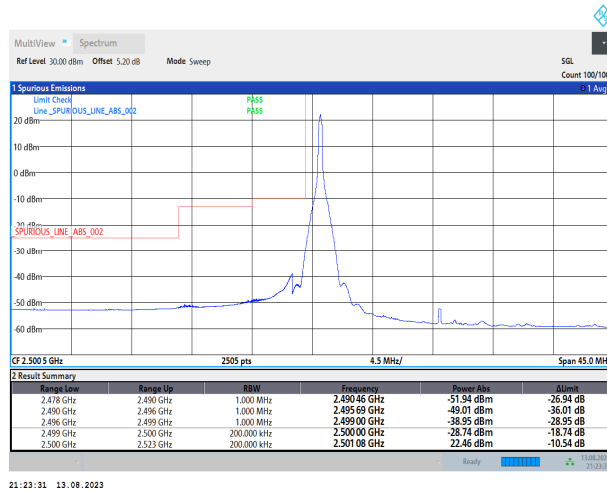


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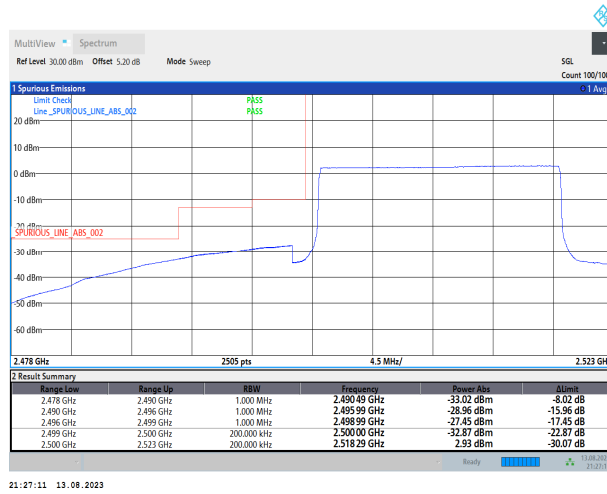
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Band7-20MHz-QPSK-20850-1RB#0



Band7-20MHz-QPSK-20850-100RB#0

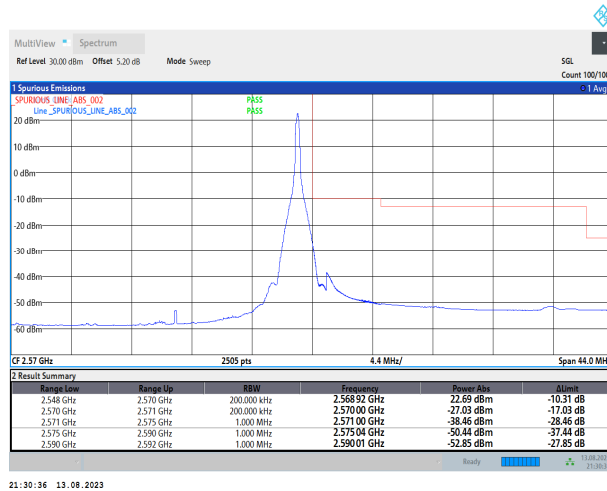


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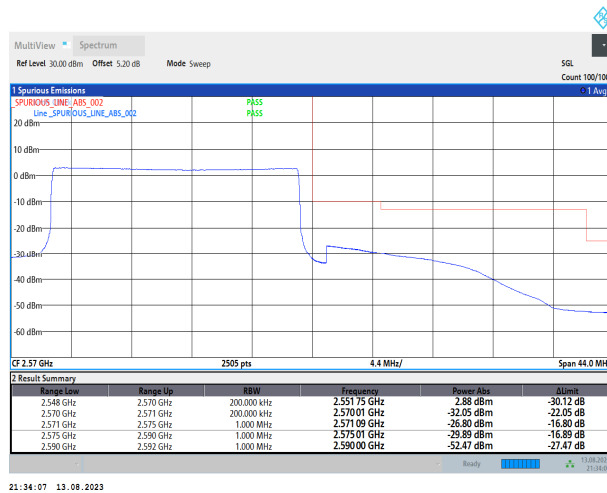
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Band7-20MHz-QPSK-21350-1RB#99



Band7-20MHz-QPSK-21350-100RB#0



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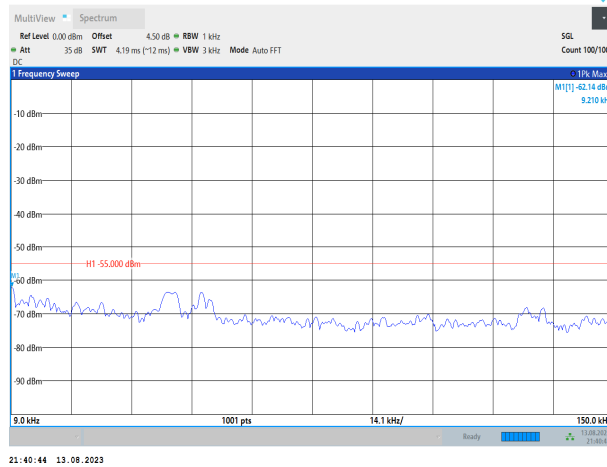
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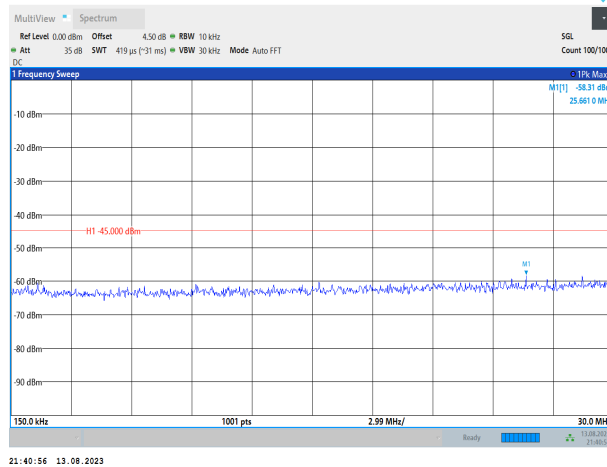
Conducted Spurious Emission

Test Graphs

Band7-20MHz-QPSK-20850-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz

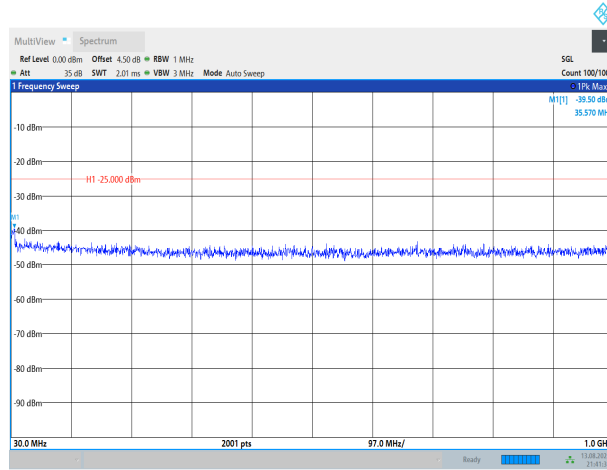


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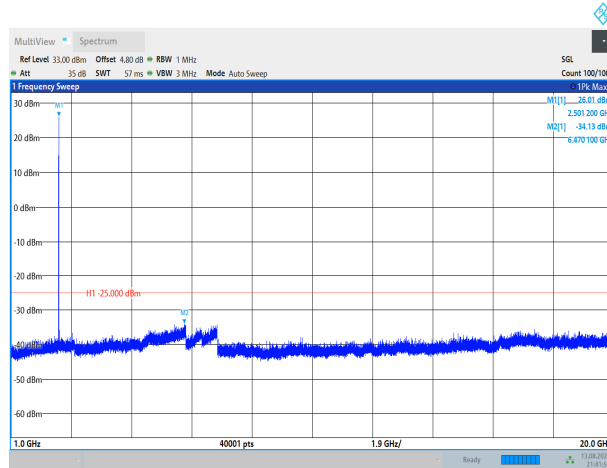
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



21:41:33 13.08.2023

Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



21:41:52 13.08.2023

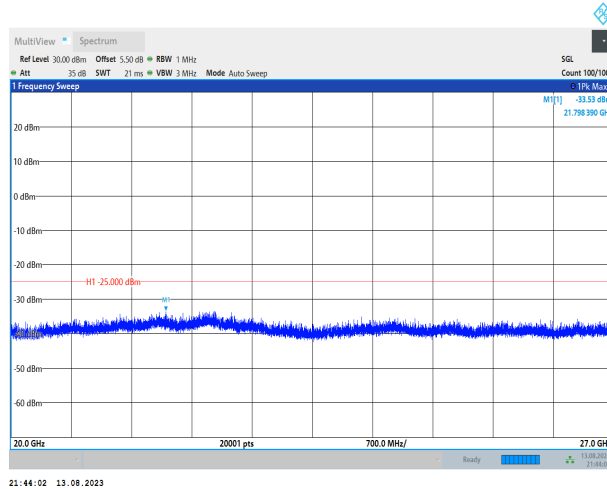


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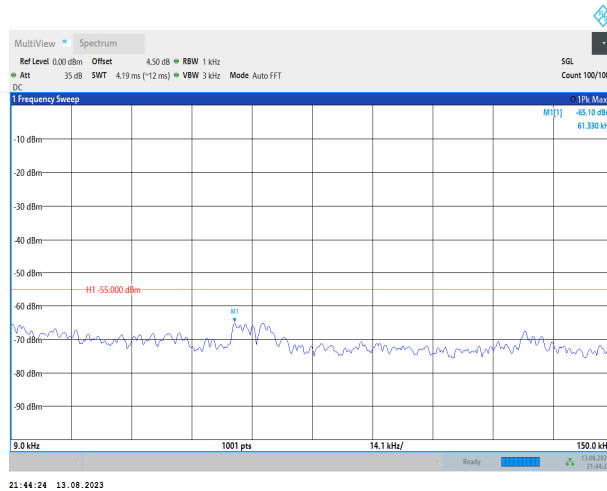
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz

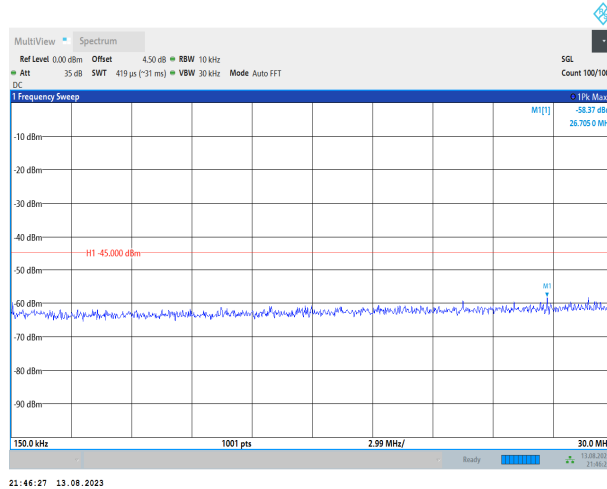


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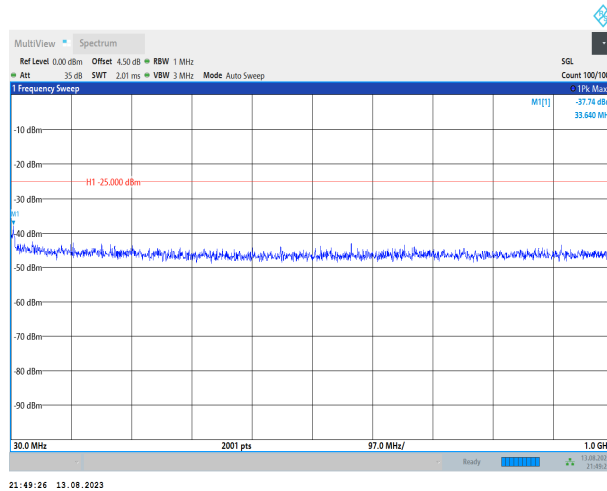
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz

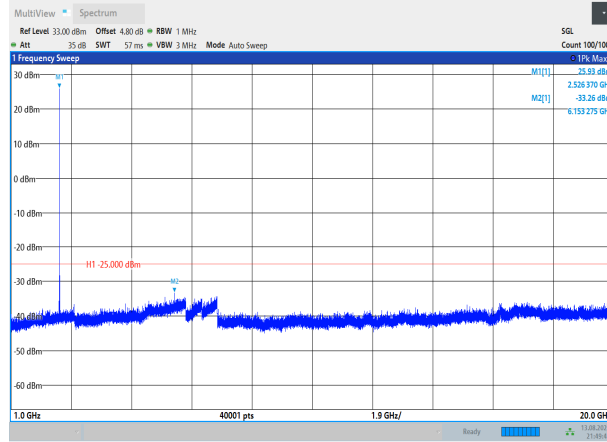


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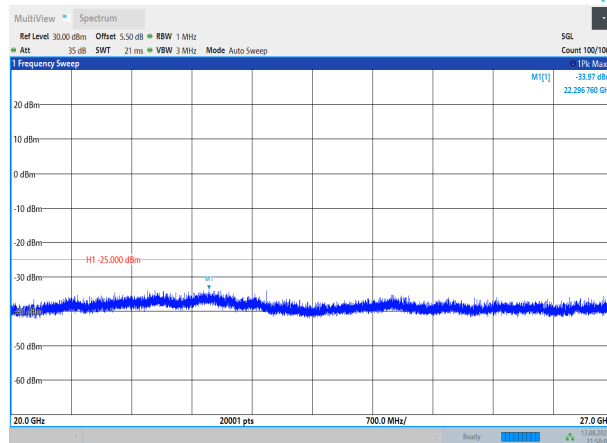
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



21:49:43 13.08.2023

Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



21:50:02 13.08.2023

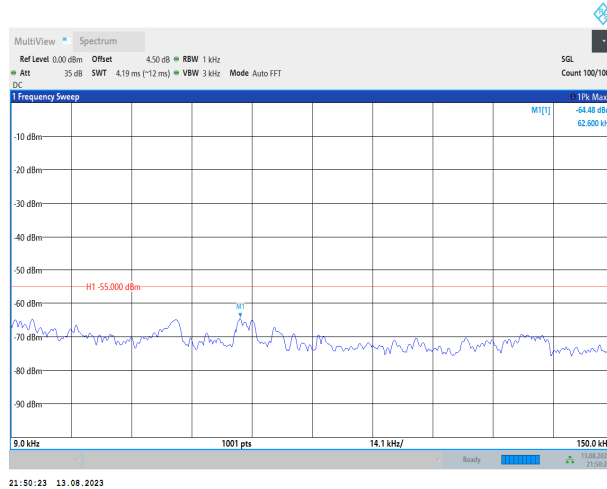


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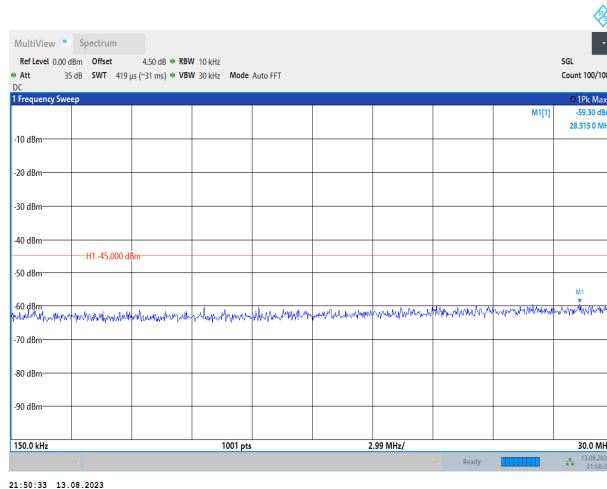
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



21:50:23 13.08.2023

Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



21:50:33 13.08.2023

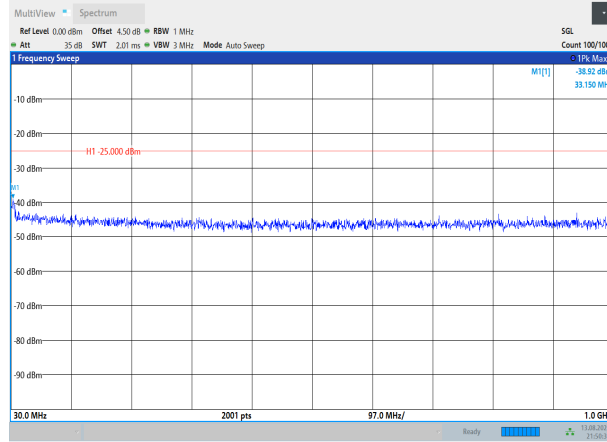


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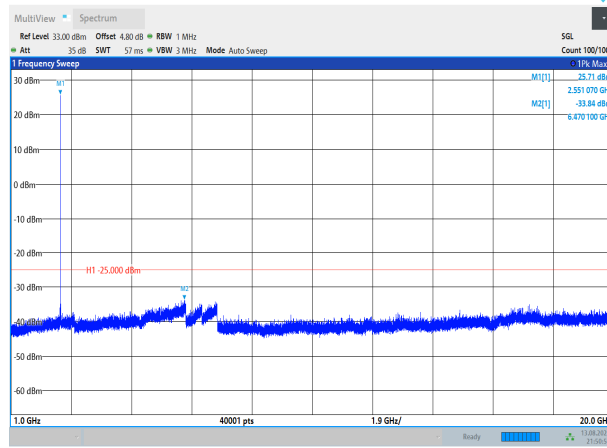
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



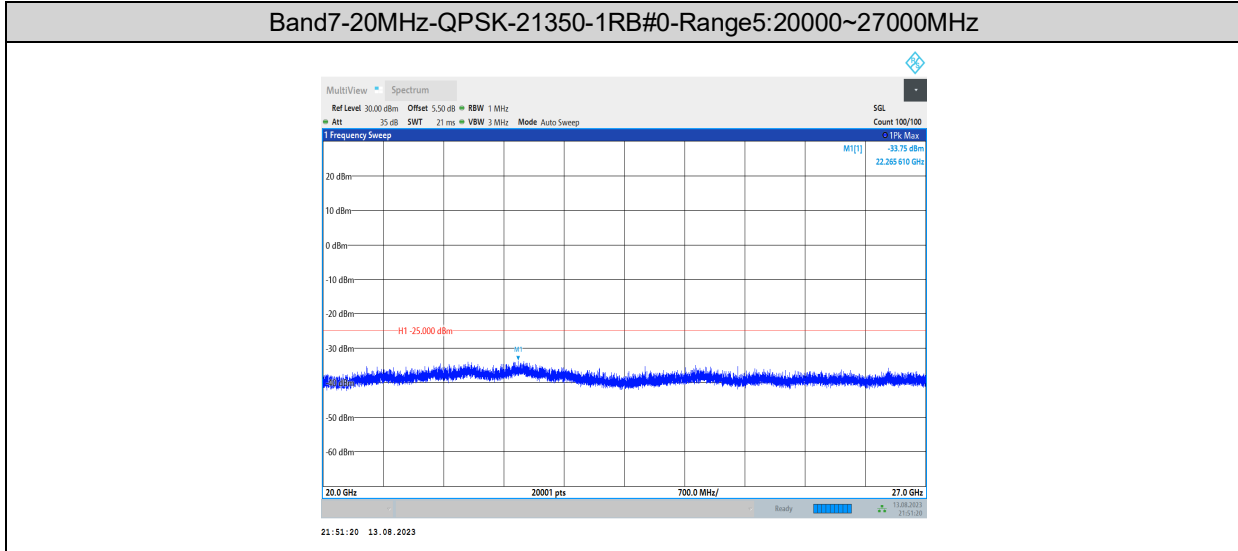
Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band7_ TM1

Test Channel = Low ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	41.94	-45.63	31.41	-67.55	-25.00	42.55	245	216	Horizontal
2	7503.2700	39.66	-43.13	36.60	-62.13	-25.00	37.13	163	7	Horizontal
3	10004.3600	35.58	-39.23	38.20	-60.71	-25.00	35.71	256	360	Horizontal
4	12505.4500	33.57	-36.99	38.95	-59.73	-25.00	34.73	154	71	Horizontal
5	15006.5400	32.06	-34.65	41.29	-56.57	-25.00	31.57	175	35	Horizontal
6	17507.6300	32.70	-34.95	44.59	-52.92	-25.00	27.92	261	356	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	5002.1800	41.43	-45.63	31.41	-68.06	-25.00	43.06	214	325	Vertical
2	7503.2700	39.21	-43.13	36.60	-62.58	-25.00	37.58	153	234	Vertical
3	10004.3600	35.38	-39.23	38.20	-60.91	-25.00	35.91	261	37	Vertical
4	12505.4500	33.77	-36.99	38.95	-59.53	-25.00	34.53	136	145	Vertical
5	15006.5400	32.28	-34.65	41.29	-56.35	-25.00	31.35	256	353	Vertical
6	17507.6300	32.34	-34.95	44.59	-53.28	-25.00	28.28	166	358	Vertical



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Test Band = LTE Band7_ TM1

Test Channel = Mid ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	41.77	-45.50	31.53	-67.46	-25.00	42.46	145	128	Horizontal
2	7578.2700	39.00	-42.98	36.63	-62.60	-25.00	37.60	112	55	Horizontal
3	10104.3600	36.13	-39.14	38.25	-60.01	-25.00	35.01	159	252	Horizontal
4	12630.4500	33.97	-37.33	38.99	-59.63	-25.00	34.63	186	306	Horizontal
5	15156.5400	31.77	-34.36	40.97	-56.88	-25.00	31.88	142	200	Horizontal
6	17682.6300	33.34	-33.89	45.37	-50.44	-25.00	25.44	188	290	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	5052.1800	40.86	-45.50	31.53	-68.37	-25.00	43.37	156	145	Vertical
2	7578.2700	39.63	-42.98	36.63	-61.97	-25.00	36.97	236	360	Vertical
3	10104.3600	35.54	-39.14	38.25	-60.60	-25.00	35.60	251	270	Vertical
4	12630.4500	34.26	-37.33	38.99	-59.34	-25.00	34.34	145	216	Vertical
5	15156.5400	31.48	-34.36	40.97	-57.17	-25.00	32.17	175	8	Vertical
6	17682.6300	33.34	-33.89	45.37	-50.44	-25.00	25.44	156	236	Vertical



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Test Band = LTE Band7_ TM1

Test Channel = High ANT2

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	41.66	-45.37	31.65	-67.32	-25.00	42.32	244	89	Horizontal
2	7653.2700	40.14	-43.03	36.66	-61.49	-25.00	36.49	175	36	Horizontal
3	10204.3600	35.92	-39.48	38.30	-60.52	-25.00	35.52	142	324	Horizontal
4	12755.4500	33.98	-36.76	39.03	-59.02	-25.00	34.02	156	306	Horizontal
5	15306.5400	32.02	-34.35	40.66	-56.94	-25.00	31.94	126	268	Horizontal
6	17857.6300	33.18	-34.56	46.16	-50.48	-25.00	25.48	311	88	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	5102.1800	41.26	-45.37	31.65	-67.72	-25.00	42.72	258	53	Vertical
2	7653.2700	39.97	-43.03	36.66	-61.66	-25.00	36.66	196	106	Vertical
3	10204.3600	35.87	-39.48	38.30	-60.57	-25.00	35.57	184	360	Vertical
4	12755.4500	33.12	-36.76	39.03	-59.88	-25.00	34.88	175	360	Vertical
5	15306.5400	32.02	-34.35	40.66	-56.94	-25.00	31.94	156	231	Vertical
6	17857.6300	33.24	-34.56	46.16	-50.42	-25.00	25.42	231	145	Vertical



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Test Band = LTE Band7_ TM1
Test Channel = Low ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	41.70	-45.63	31.41	-67.79	-25.00	42.79	244	70	Horizontal
2	7503.2700	39.30	-43.13	36.60	-62.49	-25.00	37.49	175	160	Horizontal
3	10004.3600	35.99	-39.23	38.20	-60.30	-25.00	35.30	142	234	Horizontal
4	12505.4500	34.05	-36.99	38.95	-59.25	-25.00	34.25	158	92	Horizontal
5	15006.5400	30.67	-34.65	41.29	-57.96	-25.00	32.96	196	4	Horizontal
6	17507.6300	31.56	-34.95	44.59	-54.06	-25.00	29.06	188	251	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	5002.1800	41.28	-45.63	31.41	-68.21	-25.00	43.21	245	339	Vertical
2	7503.2700	40.21	-43.13	36.60	-61.58	-25.00	36.58	125	1	Vertical
3	10004.3600	35.24	-39.23	38.20	-61.05	-25.00	36.05	153	141	Vertical
4	12505.4500	32.38	-36.99	38.95	-60.92	-25.00	35.92	261	270	Vertical
5	15006.5400	30.93	-34.65	41.29	-57.70	-25.00	32.70	175	2	Vertical
6	17507.6300	32.29	-34.95	44.59	-53.33	-25.00	28.33	148	304	Vertical



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Test Band = LTE Band7_ TM1

Test Channel = Mid ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	41.18	-45.50	31.53	-68.05	-25.00	43.05	255	107	Horizontal
2	7578.2700	39.16	-42.98	36.63	-62.44	-25.00	37.44	145	251	Horizontal
3	10104.3600	35.56	-39.14	38.25	-60.58	-25.00	35.58	166	0	Horizontal
4	12630.4500	32.26	-37.33	38.99	-61.34	-25.00	36.34	256	288	Horizontal
5	15156.5400	30.39	-34.36	40.97	-58.26	-25.00	33.26	136	54	Horizontal
6	17682.6300	33.00	-33.89	45.37	-50.78	-25.00	25.78	256	179	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	5052.1800	40.86	-45.50	31.53	-68.37	-25.00	43.37	244	0	Vertical
2	7578.2700	39.17	-42.98	36.63	-62.43	-25.00	37.43	175	252	Vertical
3	10104.3600	34.43	-39.14	38.25	-61.71	-25.00	36.71	186	163	Vertical
4	12630.4500	32.50	-37.33	38.99	-61.10	-25.00	36.10	256	179	Vertical
5	15156.5400	30.36	-34.36	40.97	-58.29	-25.00	33.29	142	72	Vertical
6	17682.6300	32.10	-33.89	45.37	-51.68	-25.00	26.68	159	54	Vertical



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Test Band = LTE Band7_ TM1

Test Channel = High ANT3

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	40.77	-45.37	31.65	-68.21	-25.00	43.21	244	109	Horizontal
2	7653.2700	39.97	-43.03	36.66	-61.66	-25.00	36.66	157	218	Horizontal
3	10204.3600	35.16	-39.48	38.30	-61.28	-25.00	36.28	186	127	Horizontal
4	12755.4500	32.34	-36.76	39.03	-60.66	-25.00	35.66	136	360	Horizontal
5	15306.5400	30.42	-34.35	40.66	-58.54	-25.00	33.54	256	342	Horizontal
6	17857.6300	32.78	-34.56	46.16	-50.88	-25.00	25.88	165	289	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	5102.1800	40.41	-45.37	31.65	-68.57	-25.00	43.57	144	269	Vertical
2	7653.2700	39.49	-43.03	36.66	-62.14	-25.00	37.14	185	196	Vertical
3	10204.3600	35.01	-39.48	38.30	-61.43	-25.00	36.43	196	53	Vertical
4	12755.4500	32.66	-36.76	39.03	-60.34	-25.00	35.34	140	197	Vertical
5	15306.5400	31.17	-34.35	40.66	-57.79	-25.00	32.79	125	288	Vertical
6	17857.6300	32.99	-34.56	46.16	-50.67	-25.00	25.67	199	359	Vertical



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Test Band = LTE Band7_ TM1

Test Channel = Low ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	41.81	-45.63	31.41	-67.68	-25.00	42.68	256	271	Horizontal
2	7503.2700	39.78	-43.13	36.60	-62.01	-25.00	37.01	158	356	Horizontal
3	10004.3600	34.97	-39.23	38.20	-61.32	-25.00	36.32	142	216	Horizontal
4	12505.4500	32.67	-36.99	38.95	-60.63	-25.00	35.63	153	181	Horizontal
5	15006.5400	30.15	-34.65	41.29	-58.48	-25.00	33.48	261	34	Horizontal
6	17507.6300	31.28	-34.95	44.59	-54.34	-25.00	29.34	158	18	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	5002.1800	40.95	-45.63	31.41	-68.54	-25.00	43.54	236	160	Vertical
2	7503.2700	39.79	-43.13	36.60	-62.00	-25.00	37.00	251	360	Vertical
3	10004.3600	34.77	-39.23	38.20	-61.52	-25.00	36.52	145	2	Vertical
4	12505.4500	32.15	-36.99	38.95	-61.15	-25.00	36.15	299	126	Vertical
5	15006.5400	30.33	-34.65	41.29	-58.30	-25.00	33.30	178	288	Vertical
6	17507.6300	31.42	-34.95	44.59	-54.20	-25.00	29.20	158	250	Vertical



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Test Band = LTE Band7_ TM1
Test Channel = Mid ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	42.19	-45.50	31.53	-67.04	-25.00	42.04	147	0	Horizontal
2	7578.2700	38.96	-42.98	36.63	-62.64	-25.00	37.64	158	54	Horizontal
3	10104.3600	35.27	-39.14	38.25	-60.87	-25.00	35.87	196	144	Horizontal
4	12630.4500	32.47	-37.33	38.99	-61.13	-25.00	36.13	185	198	Horizontal
5	15156.5400	30.44	-34.36	40.97	-58.21	-25.00	33.21	163	359	Horizontal
6	17682.6300	32.63	-33.89	45.37	-51.15	-25.00	26.15	251	356	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	5052.1800	40.89	-45.50	31.53	-68.34	-25.00	43.34	245	90	Vertical
2	7578.2700	39.05	-42.98	36.63	-62.55	-25.00	37.55	175	353	Vertical
3	10104.3600	35.01	-39.14	38.25	-61.13	-25.00	36.13	122	127	Vertical
4	12630.4500	32.39	-37.33	38.99	-61.21	-25.00	36.21	136	19	Vertical
5	15156.5400	29.74	-34.36	40.97	-58.91	-25.00	33.91	256	234	Vertical
6	17682.6300	31.85	-33.89	45.37	-51.93	-25.00	26.93	145	353	Vertical



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Test Band = LTE Band7_ TM1

Test Channel = High ANT4

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	40.57	-45.37	31.65	-68.41	-25.00	43.41	244	1	Horizontal
2	7653.2700	40.29	-43.03	36.66	-61.34	-25.00	36.34	175	359	Horizontal
3	10204.3600	34.53	-39.48	38.30	-61.91	-25.00	36.91	136	353	Horizontal
4	12755.4500	31.60	-36.76	39.03	-61.40	-25.00	36.40	256	325	Horizontal
5	15306.5400	30.63	-34.35	40.66	-58.33	-25.00	33.33	155	91	Horizontal
6	17857.6300	32.87	-34.56	46.16	-50.79	-25.00	25.79	185	271	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	5102.1800	41.55	-45.37	31.65	-67.43	-25.00	42.43	144	72	Vertical
2	7653.2700	39.74	-43.03	36.66	-61.89	-25.00	36.89	178	201	Vertical
3	10204.3600	34.75	-39.48	38.30	-61.69	-25.00	36.69	189	215	Vertical
4	12755.4500	31.65	-36.76	39.03	-61.35	-25.00	36.35	163	359	Vertical
5	15306.5400	30.76	-34.35	40.66	-58.20	-25.00	33.20	256	358	Vertical
6	17857.6300	32.86	-34.56	46.16	-50.80	-25.00	25.80	145	218	Vertical



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Test Band = LTE Band7_ TM1

Test Channel = Low ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	41.32	-45.63	31.41	-68.17	-25.00	43.17	245	51	Horizontal
2	7503.2700	39.33	-43.13	36.60	-62.46	-25.00	37.46	188	305	Horizontal
3	10004.3600	34.66	-39.23	38.20	-61.63	-25.00	36.63	175	359	Horizontal
4	12505.4500	32.03	-36.99	38.95	-61.27	-25.00	36.27	265	51	Horizontal
5	15006.5400	29.66	-34.65	41.29	-58.97	-25.00	33.97	158	163	Horizontal
6	17507.6300	31.86	-34.95	44.59	-53.76	-25.00	28.76	196	269	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	5002.1800	41.06	-45.63	31.41	-68.43	-25.00	43.43	244	161	Vertical
2	7503.2700	39.29	-43.13	36.60	-62.50	-25.00	37.50	178	251	Vertical
3	10004.3600	35.01	-39.23	38.20	-61.28	-25.00	36.28	186	35	Vertical
4	12505.4500	31.64	-36.99	38.95	-61.66	-25.00	36.66	166	358	Vertical
5	15006.5400	30.69	-34.65	41.29	-57.94	-25.00	32.94	235	358	Vertical
6	17507.6300	31.35	-34.95	44.59	-54.27	-25.00	29.27	145	162	Vertical



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Test Band = LTE Band7_ TM1
Test Channel = Mid ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	40.24	-45.50	31.53	-68.99	-25.00	43.99	245	181	Horizontal
2	7578.2700	39.68	-42.98	36.63	-61.92	-25.00	36.92	156	2	Horizontal
3	10104.3600	35.86	-39.14	38.25	-60.28	-25.00	35.28	129	4	Horizontal
4	12630.4500	32.91	-37.33	38.99	-60.69	-25.00	35.69	187	306	Horizontal
5	15156.5400	29.99	-34.36	40.97	-58.66	-25.00	33.66	175	54	Horizontal
6	17682.6300	32.31	-33.89	45.37	-51.47	-25.00	26.47	163	288	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	5052.1800	41.04	-45.50	31.53	-68.19	-25.00	43.19	244	162	Vertical
2	7578.2700	39.34	-42.98	36.63	-62.26	-25.00	37.26	157	234	Vertical
3	10104.3600	34.89	-39.14	38.25	-61.25	-25.00	36.25	186	324	Vertical
4	12630.4500	32.61	-37.33	38.99	-60.99	-25.00	35.99	253	289	Vertical
5	15156.5400	29.94	-34.36	40.97	-58.71	-25.00	33.71	166	360	Vertical
6	17682.6300	32.22	-33.89	45.37	-51.56	-25.00	26.56	261	7	Vertical



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Test Band = LTE Band7_ TM1

Test Channel = High ANT5

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	40.84	-45.37	31.65	-68.14	-25.00	43.14	244	360	Horizontal
2	7653.2700	40.23	-43.03	36.66	-61.40	-25.00	36.40	158	53	Horizontal
3	10204.3600	34.31	-39.48	38.30	-62.13	-25.00	37.13	169	32	Horizontal
4	12755.4500	31.84	-36.76	39.03	-61.16	-25.00	36.16	259	70	Horizontal
5	15306.5400	30.64	-34.35	40.66	-58.32	-25.00	33.32	186	144	Horizontal
6	17857.6300	33.68	-34.56	46.16	-49.98	-25.00	24.98	147	180	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	5102.1800	41.33	-45.37	31.65	-67.65	-25.00	42.65	245	0	Vertical
2	7653.2700	39.77	-43.03	36.66	-61.86	-25.00	36.86	163	54	Vertical
3	10204.3600	34.35	-39.48	38.30	-62.09	-25.00	37.09	251	357	Vertical
4	12755.4500	32.07	-36.76	39.03	-60.93	-25.00	35.93	145	216	Vertical
5	15306.5400	30.63	-34.35	40.66	-58.33	-25.00	33.33	187	126	Vertical
6	17857.6300	32.84	-34.56	46.16	-50.82	-25.00	25.82	186	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
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	2.40	0.000947	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	0.20	0.000079	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	0.00	0.000000	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-1.20	-0.000473	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-1.40	-0.000552	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	1.10	0.000434	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-1.20	-0.000473	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	1.70	0.000671	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	0.90	0.000355	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	0.80	0.000316	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-2.30	-0.000907	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-0.20	-0.000079	PASS

---End of Attachment---



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