

Appendix B.6

LTE Band 7



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant0:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	24.22	24.92	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.79	24.49	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.73	24.43	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.75	23.45	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	24.17	24.87	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	24.04	24.74	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	24.11	24.81	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.96	23.66	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.94	24.64	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.53	24.23	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.66	23.36	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.62	23.32	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	23.27	23.97	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	23.04	23.74	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	23.30	24.00	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.88	22.58	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	23.28	23.98	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	23.49	24.19	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	23.36	24.06	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	22.12	22.82	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	23.32	24.02	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.86	23.56	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.22	22.92	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.89	22.59	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#0	22.40	23.10	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#12	22.24	22.94	33.00	PASS
Band7	5MHz	64QAM	20775	1RB#24	22.23	22.93	33.00	PASS



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Wireless Laboratories

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Band7	5MHz	64QAM	20775	25RB#0	21.04	21.74	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#0	22.20	22.90	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#12	22.39	23.09	33.00	PASS
Band7	5MHz	64QAM	21100	1RB#24	22.23	22.93	33.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	21.12	21.82	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#0	22.37	23.07	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#12	22.04	22.74	33.00	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.47	22.17	33.00	PASS
Band7	5MHz	64QAM	21425	25RB#0	21.12	21.82	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	24.25	24.95	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.98	24.68	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#49	24.01	24.71	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	23.09	23.79	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.92	24.62	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	24.21	24.91	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.88	24.58	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	23.13	23.83	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.95	24.65	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.94	24.64	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.72	23.42	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	23.03	23.73	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	23.06	23.76	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	23.04	23.74	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	23.34	24.04	33.00	PASS
Band7	10MHz	16QAM	20800	50RB#0	22.34	23.04	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	23.31	24.01	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.56	24.26	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.38	24.08	33.00	PASS
Band7	10MHz	16QAM	21100	50RB#0	22.10	22.80	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.25	23.95	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.24	23.94	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.13	22.83	33.00	PASS



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Band7	10MHz	16QAM	21400	50RB#0	22.26	22.96	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#0	22.02	22.72	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#24	22.20	22.90	33.00	PASS
Band7	10MHz	64QAM	20800	1RB#49	22.24	22.94	33.00	PASS
Band7	10MHz	64QAM	20800	50RB#0	21.30	22.00	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#0	22.38	23.08	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#24	22.57	23.27	33.00	PASS
Band7	10MHz	64QAM	21100	1RB#49	22.31	23.01	33.00	PASS
Band7	10MHz	64QAM	21100	50RB#0	21.18	21.88	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#0	22.29	22.99	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#24	22.51	23.21	33.00	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.60	22.30	33.00	PASS
Band7	10MHz	64QAM	21400	50RB#0	21.16	21.86	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.79	24.49	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.98	24.68	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	24.00	24.70	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	23.08	23.78	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.74	24.44	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.99	24.69	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.85	24.55	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.93	23.63	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.86	24.56	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	24.01	24.71	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.52	24.22	33.00	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.96	23.66	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	23.10	23.80	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	23.29	23.99	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	23.14	23.84	33.00	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.92	22.62	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	23.16	23.86	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	23.26	23.96	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	23.11	23.81	33.00	PASS



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Band7	15MHz	16QAM	21100	75RB#0	21.86	22.56	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	23.00	23.70	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.99	23.69	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.63	23.33	33.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	22.02	22.72	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.88	22.58	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#38	22.38	23.08	33.00	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.96	22.66	33.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	20.99	21.69	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#0	22.06	22.76	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#38	22.24	22.94	33.00	PASS
Band7	15MHz	64QAM	21100	1RB#74	22.07	22.77	33.00	PASS
Band7	15MHz	64QAM	21100	75RB#0	21.14	21.84	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#0	22.01	22.71	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#38	22.16	22.86	33.00	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.94	22.64	33.00	PASS
Band7	15MHz	64QAM	21375	75RB#0	21.03	21.73	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.68	24.38	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.94	24.64	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.63	24.33	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	23.11	23.81	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.94	24.64	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.84	24.54	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.97	24.67	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	23.10	23.80	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.81	24.51	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.74	24.44	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.00	23.70	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	23.00	23.70	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	23.11	23.81	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	23.23	23.93	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	23.28	23.98	33.00	PASS



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Band7	20MHz	16QAM	20850	100RB#0	21.94	22.64	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	23.02	23.72	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.89	23.59	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	23.35	24.05	33.00	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.87	22.57	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.91	23.61	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	23.05	23.75	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.30	23.00	33.00	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.95	22.65	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#0	22.06	22.76	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#49	22.28	22.98	33.00	PASS
Band7	20MHz	64QAM	20850	1RB#99	22.05	22.75	33.00	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.89	21.59	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#0	22.19	22.89	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#49	22.52	23.22	33.00	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.94	22.64	33.00	PASS
Band7	20MHz	64QAM	21100	100RB#0	21.11	21.81	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.82	22.52	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#49	22.16	22.86	33.00	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.70	22.40	33.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	21.06	21.76	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

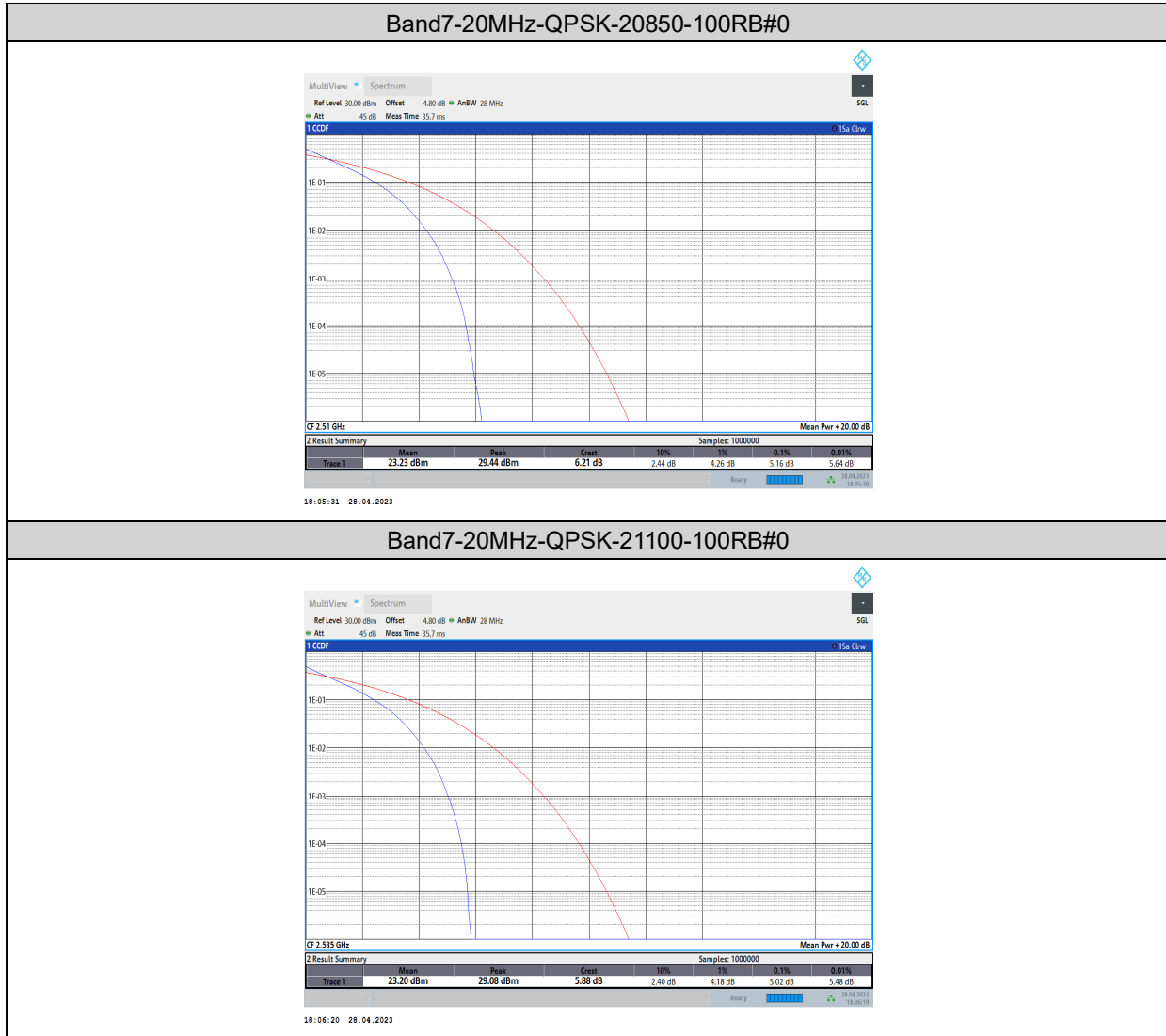
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.16	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.02	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.16	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.92	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	5.86	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.88	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.30	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.28	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.34	13	PASS



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Test Graphs

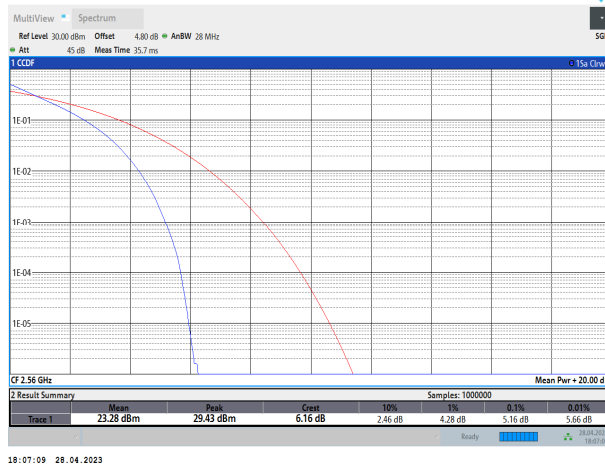


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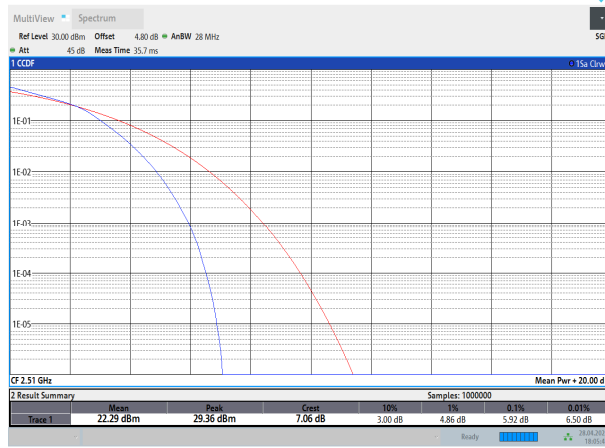
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Band7-20MHz-QPSK-21350-100RB#0



18:07:09 28.04.2023

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



18:05:47 28.04.2023

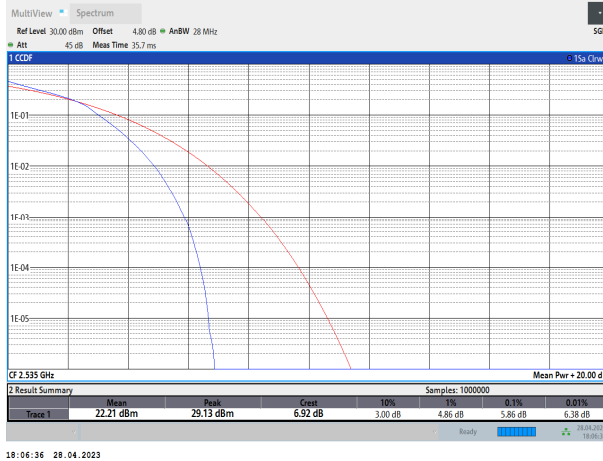


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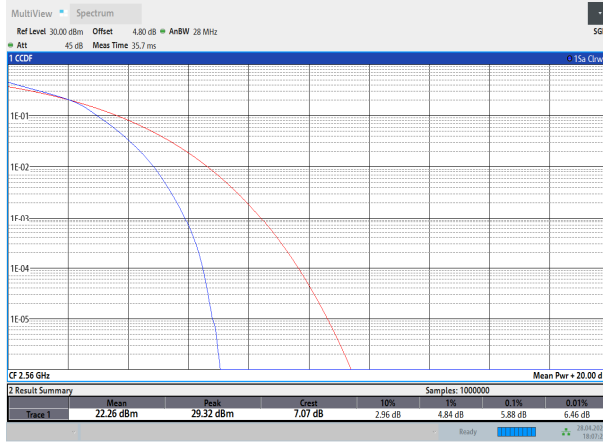
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Band7-20MHz-16QAM-21100-100RB#0



18:06:36 28.04.2023

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



18:07:26 28.04.2023

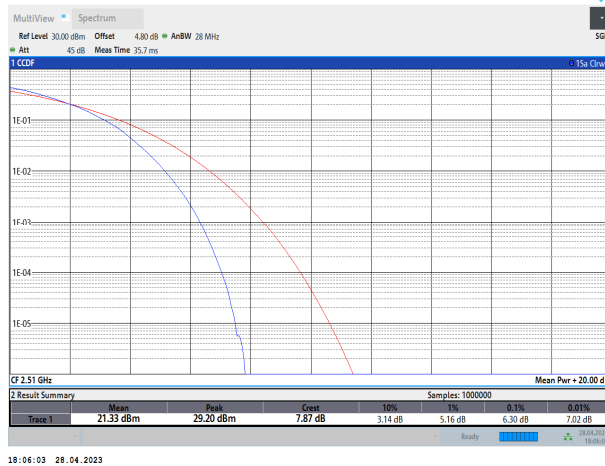


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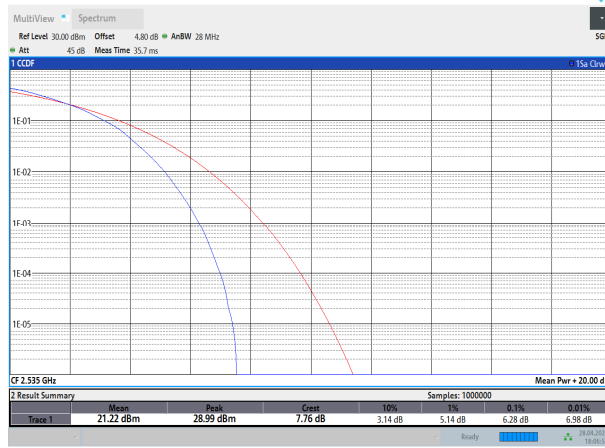
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Band7-20MHz-64QAM-20850-100RB#0



18:06:03 28.04.2023

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



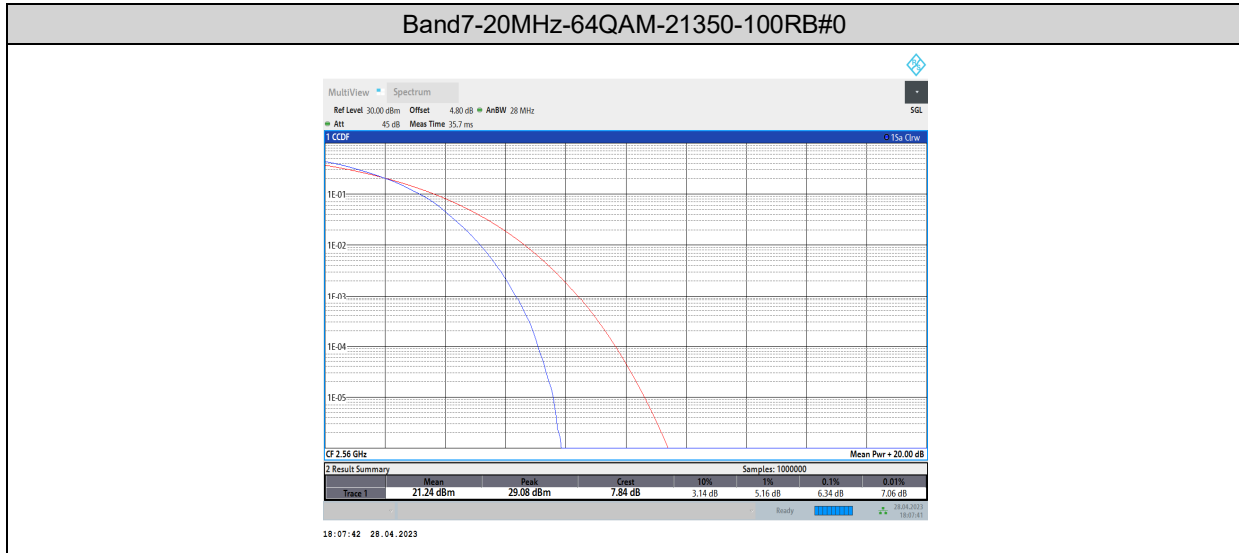
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS
Band7	20MHz	64QAM	21100	100RB#0	PASS	PASS

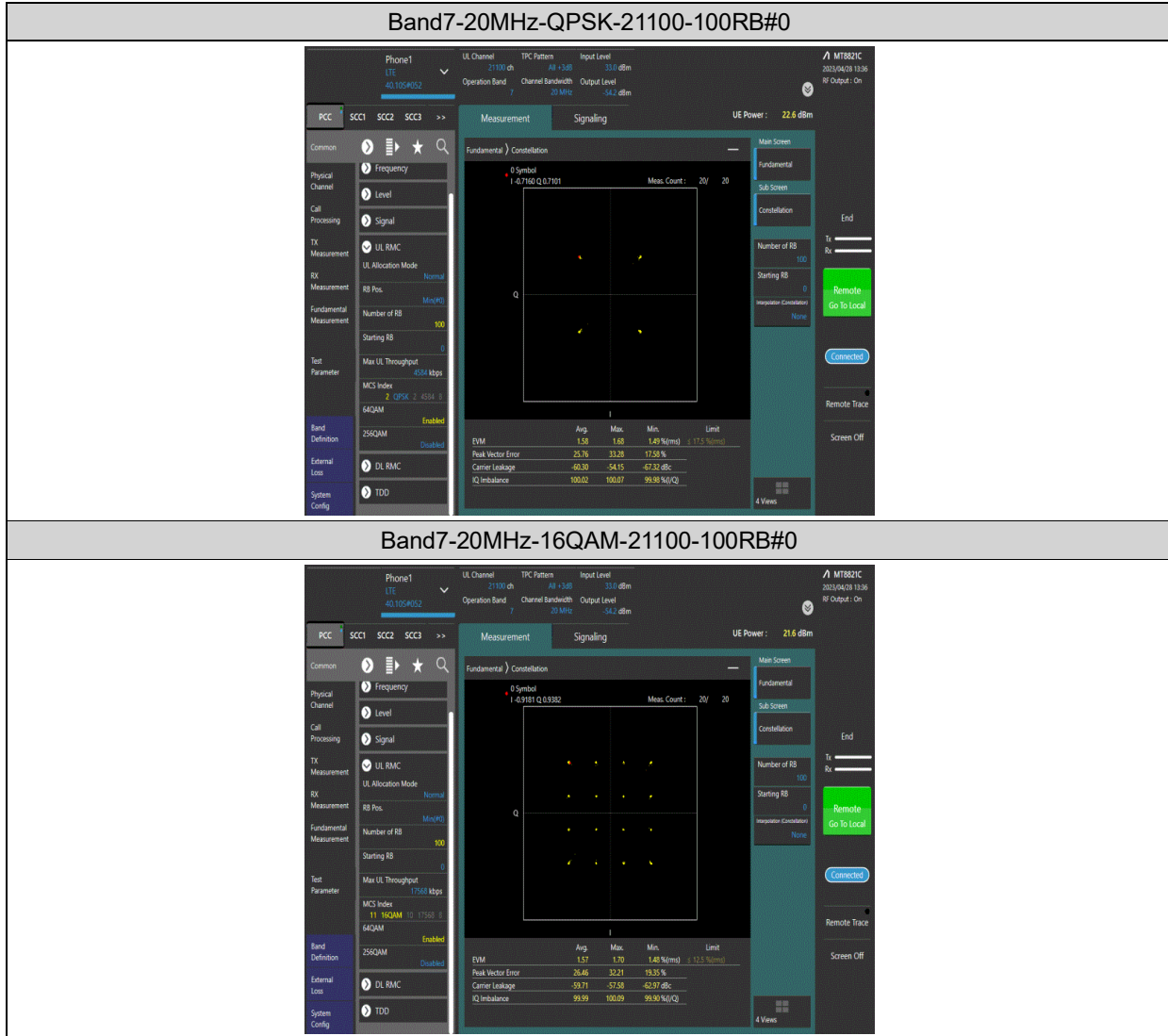


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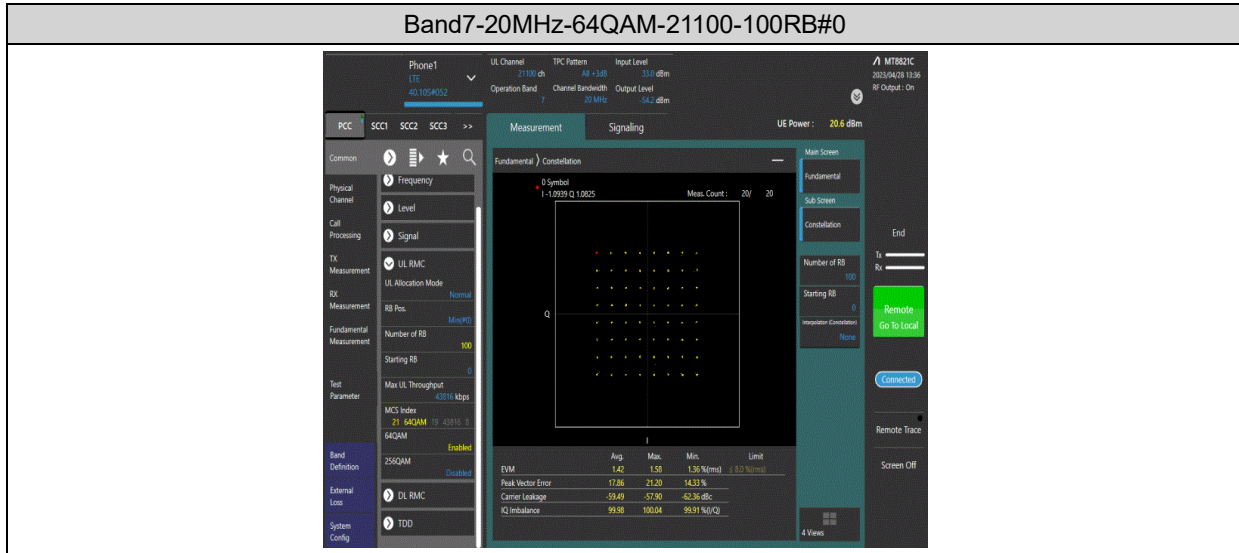
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.473	4.87	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.488	5.02	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.475	4.98	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.479	4.93	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.489	4.97	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.475	4.88	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.490	4.88	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.481	5.05	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.469	4.96	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.934	9.74	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.957	9.54	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.930	9.64	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.948	9.66	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.937	9.64	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.976	9.74	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.953	9.70	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.970	9.82	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.942	9.62	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.479	14.64	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.494	14.85	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.521	14.85	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.486	14.73	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.489	14.85	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.464	14.67	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.478	14.85	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.454	14.85	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.460	14.70	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.990	19.44	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.947	19.32	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.924	19.64	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.914	19.52	PASS



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Report No.: SEWM2305000160RG01

Rev.: 01

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Band7	20MHz	16QAM	21100	100RB#0	17.864	19.64	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.935	19.68	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.886	19.24	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.928	19.76	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.886	19.48	PASS

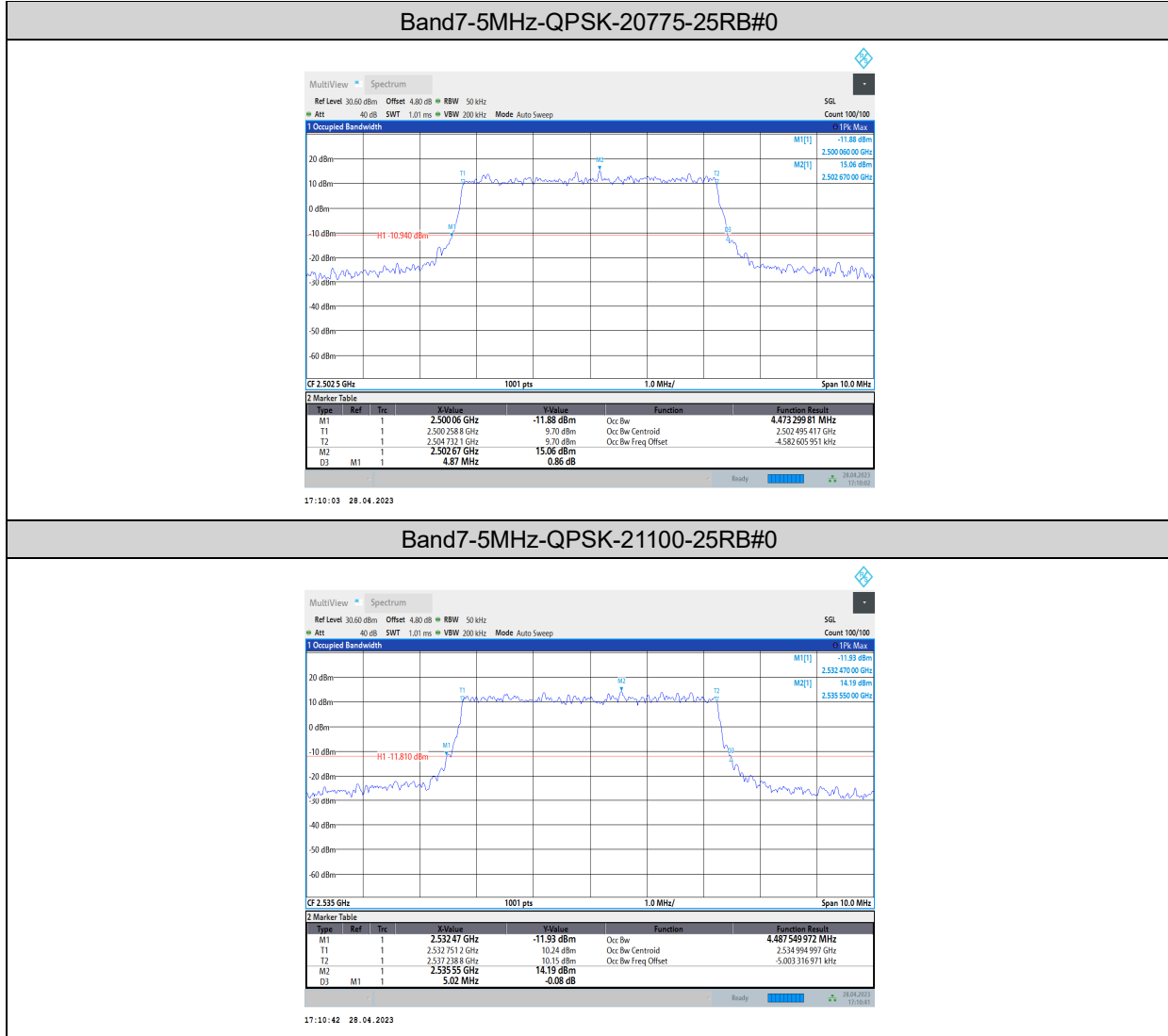


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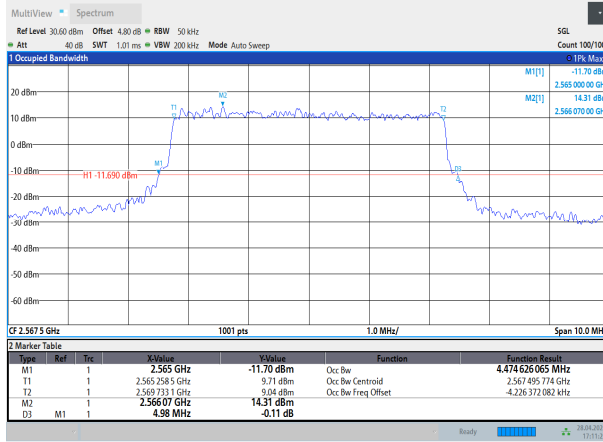


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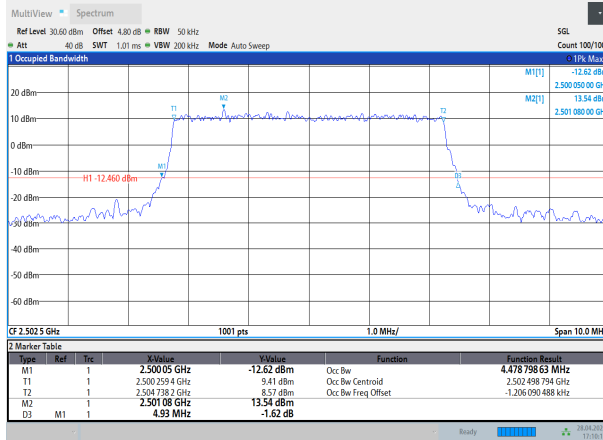
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Band7-5MHz-QPSK-21425-25RB#0



17:11:22 28.04.2023

Band7-5MHz-16QAM-20775-25RB#0



17:10:16 28.04.2023

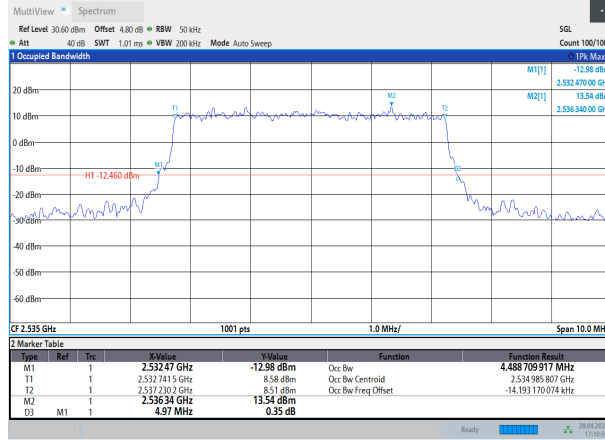


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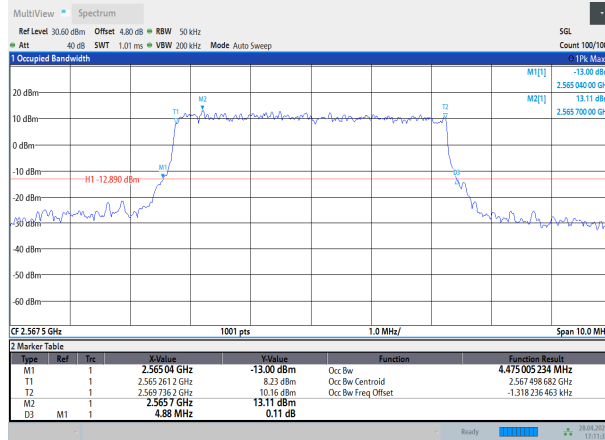
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Band7-5MHz-16QAM-21425-25RB#0



17:11:35 28.04.2023

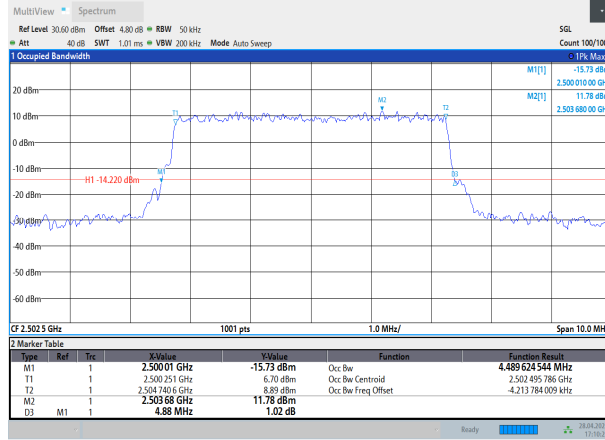


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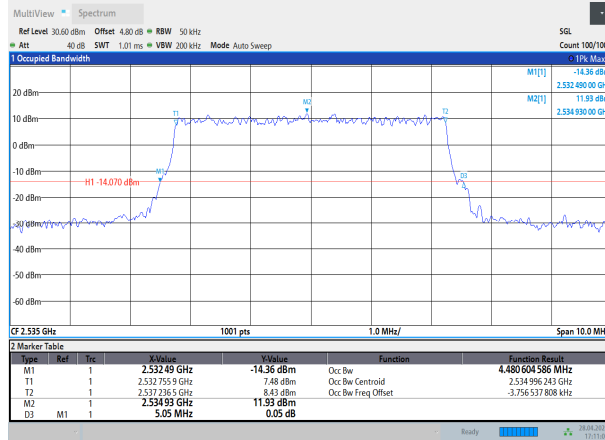
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Band7-5MHz-64QAM-20775-25RB#0



17:10:29 28. 04. 2023

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



17:11:08 28. 04. 2023

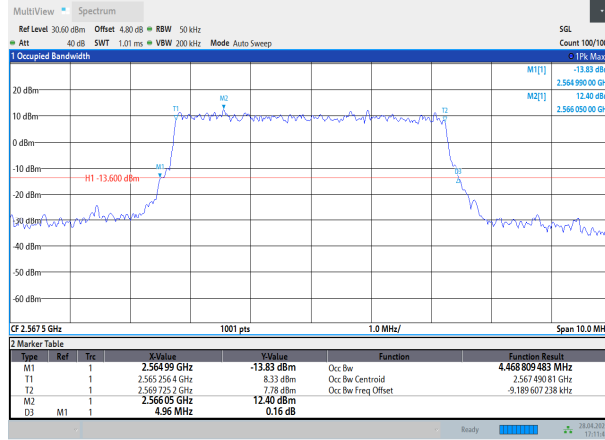


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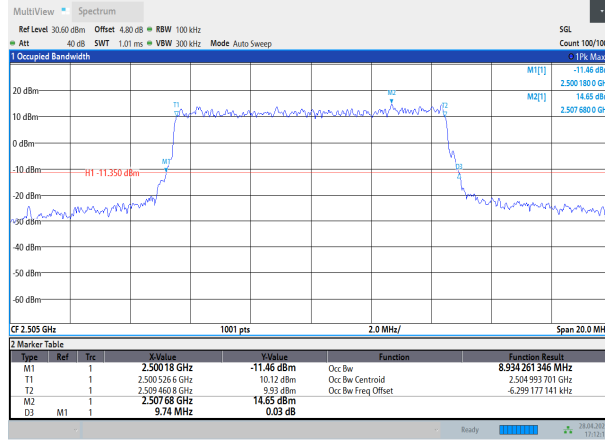
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Band7-5MHz-64QAM-21425-25RB#0



17:11:48 28.04.2023

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



17:12:16 28.04.2023

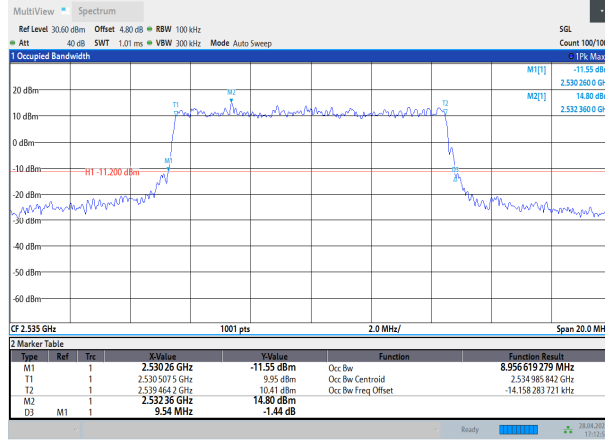


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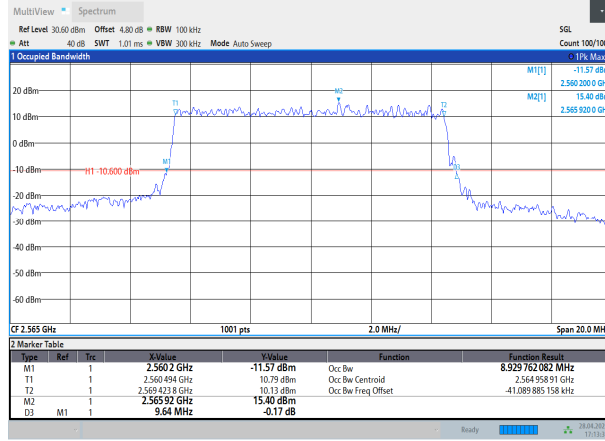
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Band7-10MHz-QPSK-21100-50RB#0



17:12:55 28.04.2023

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



17:13:35 28.04.2023

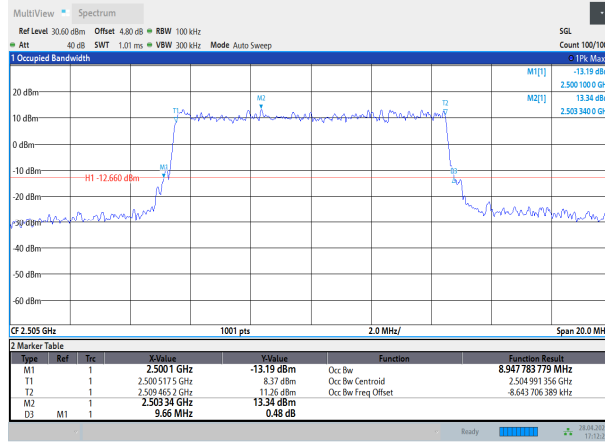


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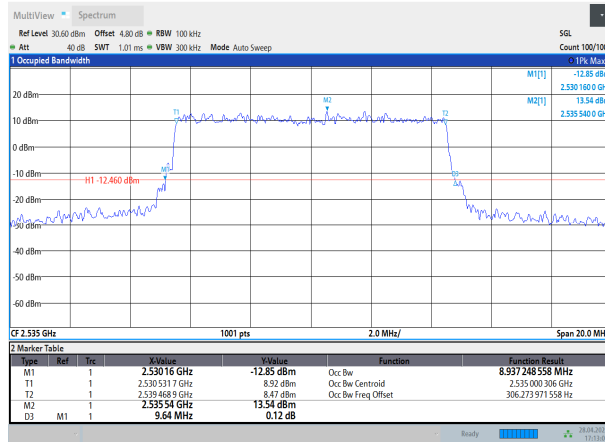
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Band7-10MHz-16QAM-20800-50RB#0



17:12:29 28.04.2023

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



17:13:08 28.04.2023

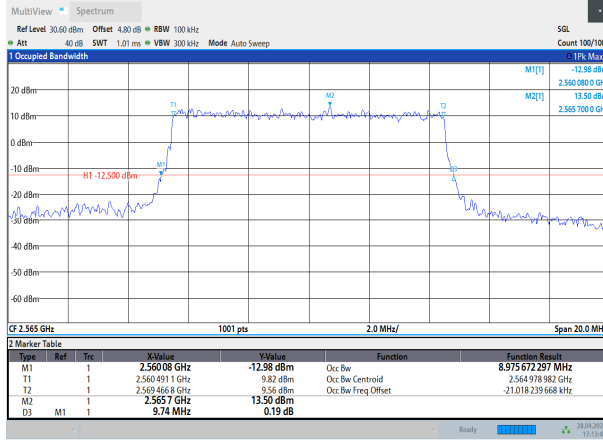


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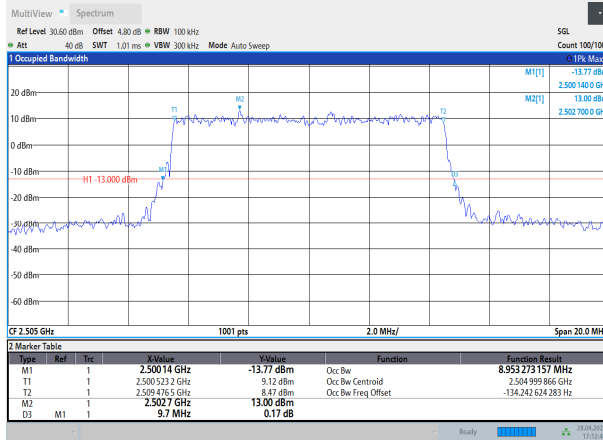
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Band7-10MHz-16QAM-21400-50RB#0



17:13:48 28.04.2023

Band7-10MHz-64QAM-20800-50RB#0



17:12:42 28.04.2023

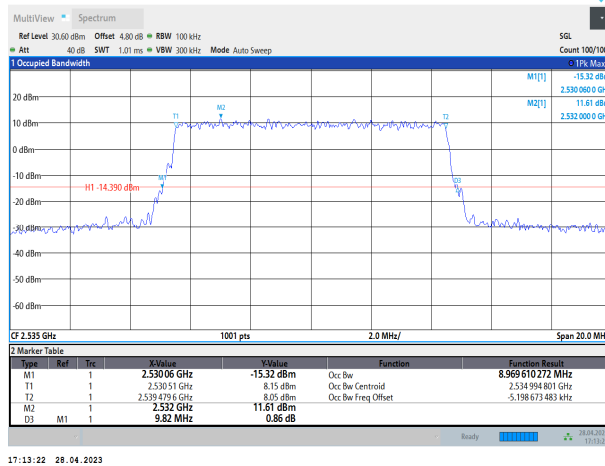


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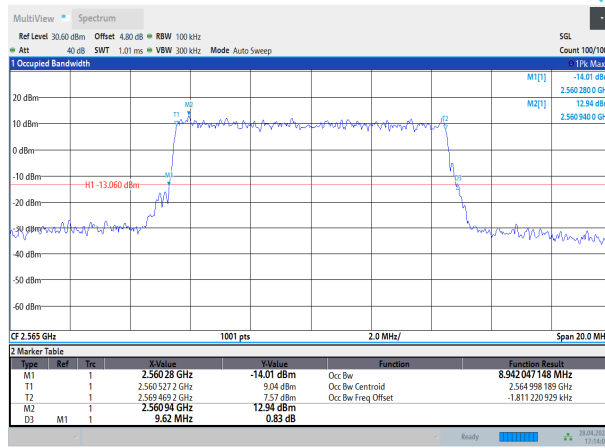
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Band7-10MHz-64QAM-21100-50RB#0



17:13:22 28. 04. 2023

Band7-10MHz-64QAM-21400-50RB#0



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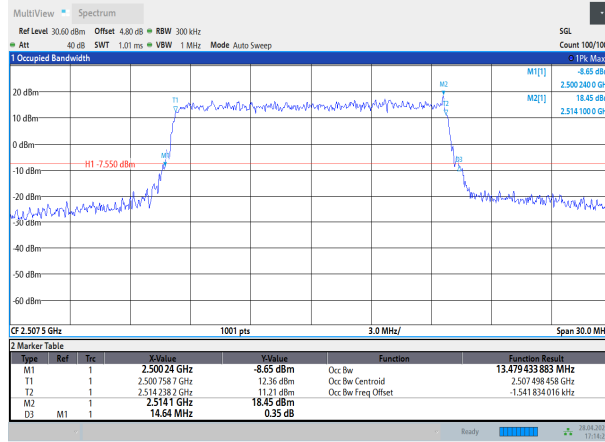


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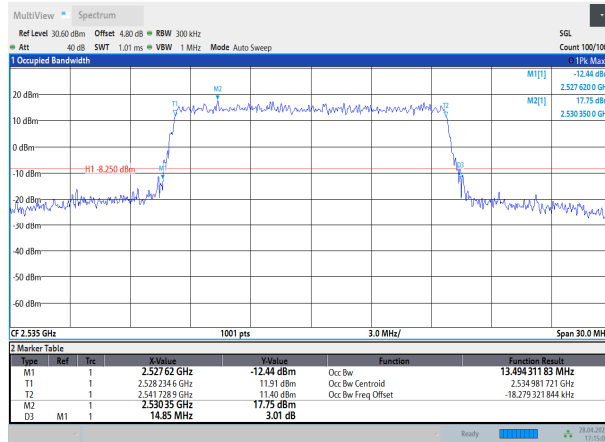
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Band7-15MHz-QPSK-20825-75RB#0



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



17:15:09 28.04.2023

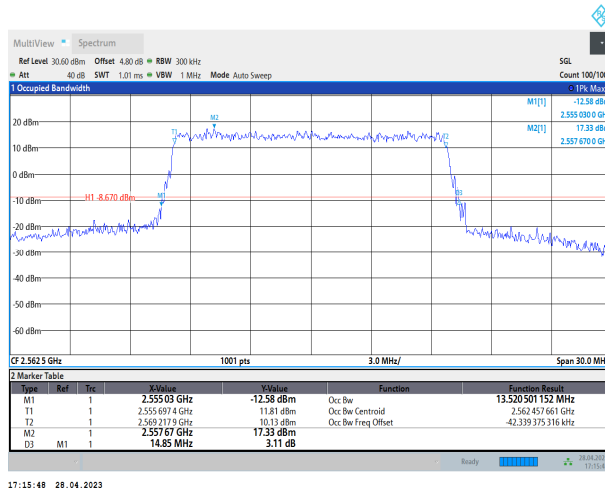


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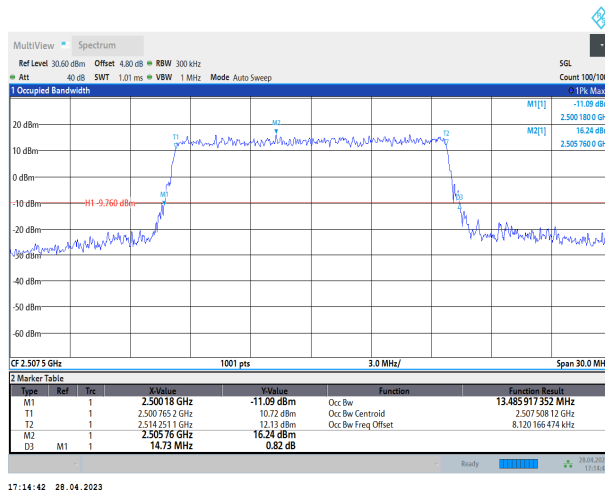
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Band7-15MHz-QPSK-21375-75RB#0



Band7-15MHz-16QAM-20825-75RB#0

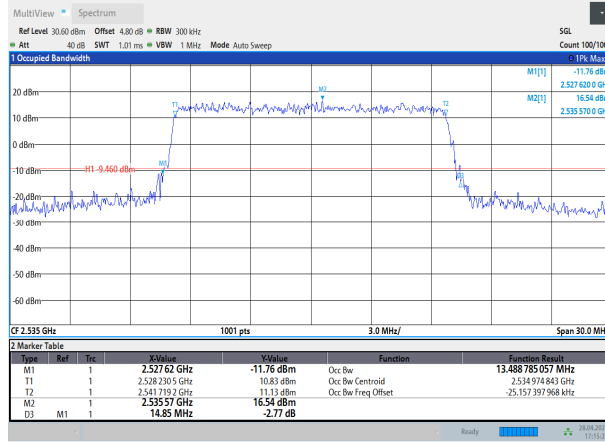


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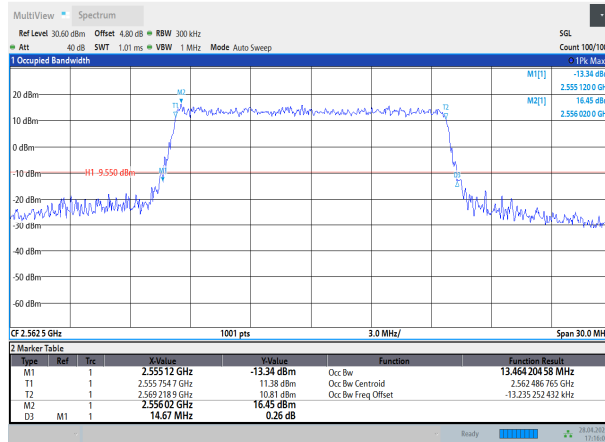
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Band7-15MHz-16QAM-21100-75RB#0



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Band7-15MHz-16QAM-21375-75RB#0



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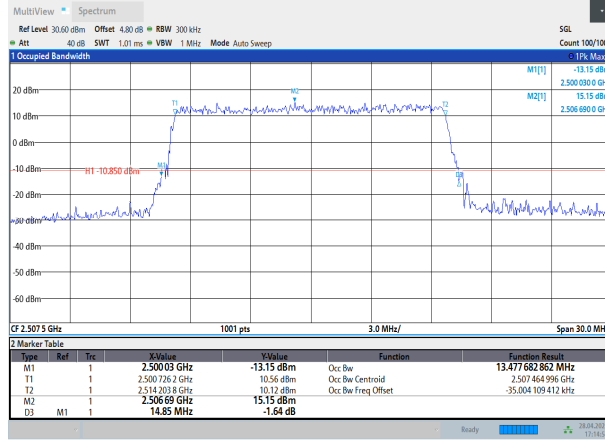


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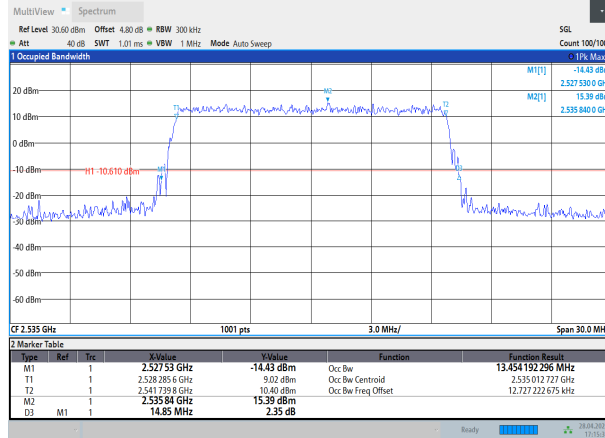
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17:14:55 28. 04. 2023

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



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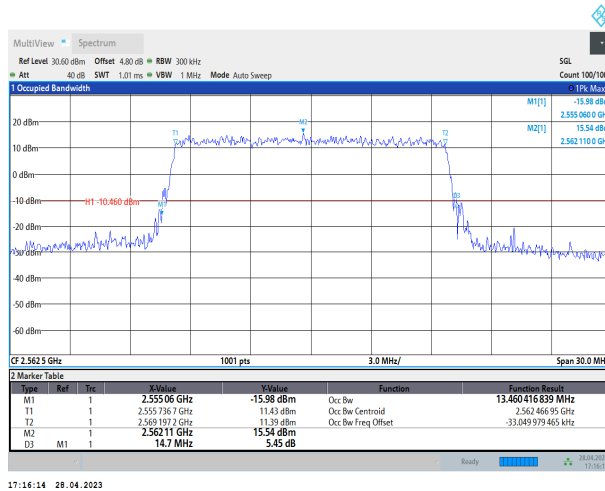


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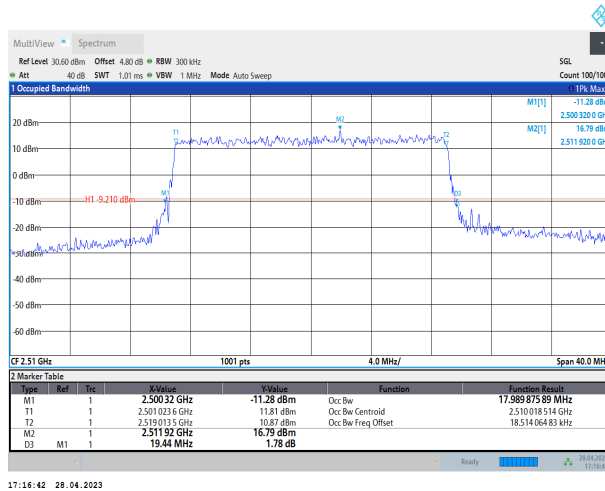
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Band7-20MHz-QPSK-20850-100RB#0



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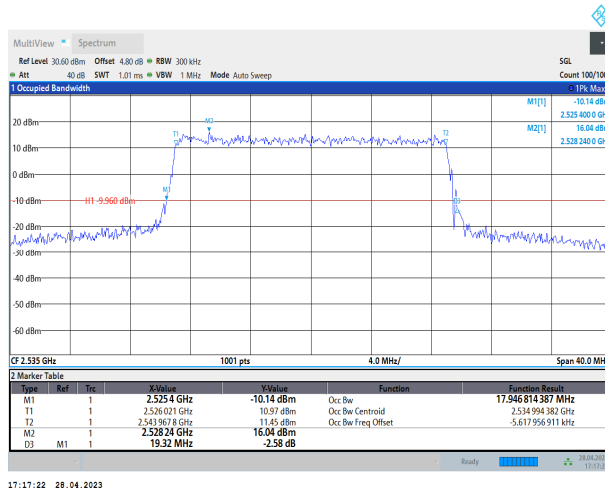


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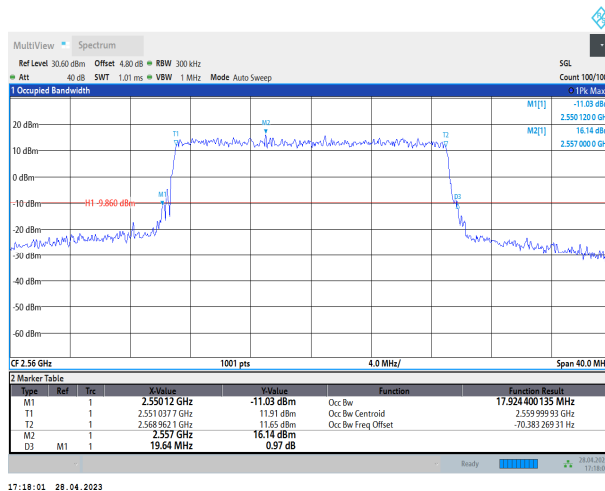
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Band7-20MHz-QPSK-21100-100RB#0



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

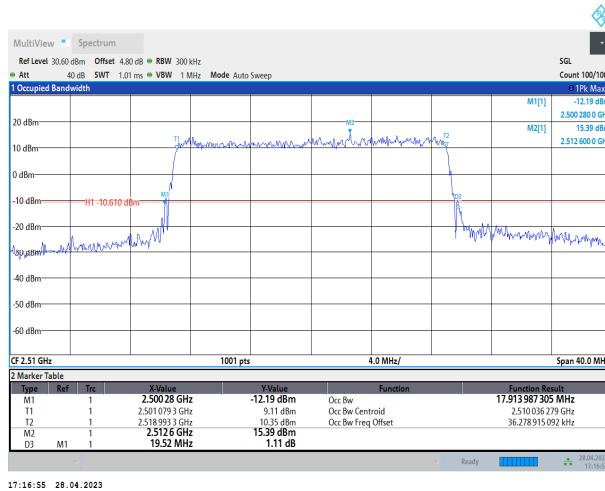


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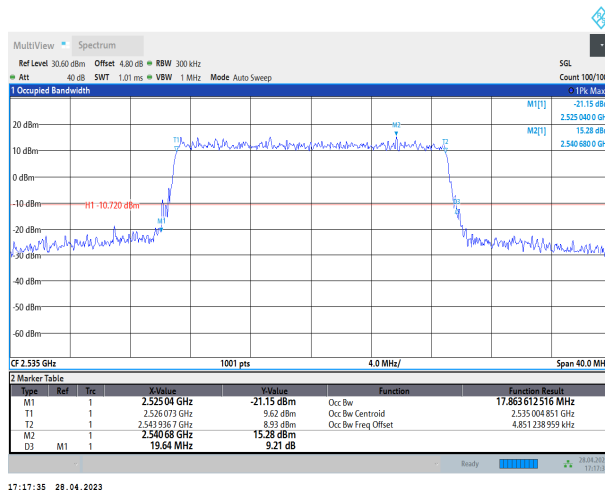
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Band7-20MHz-16QAM-20850-100RB#0



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

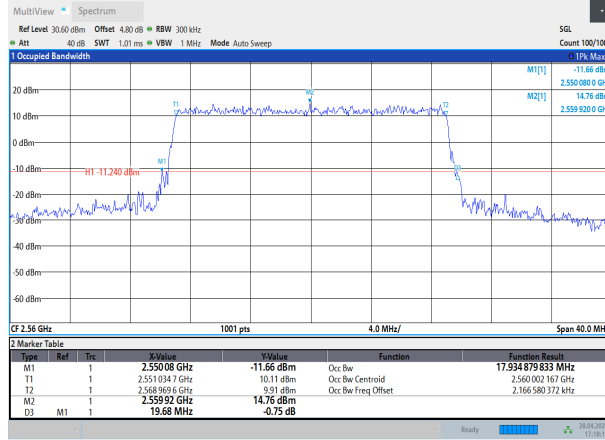


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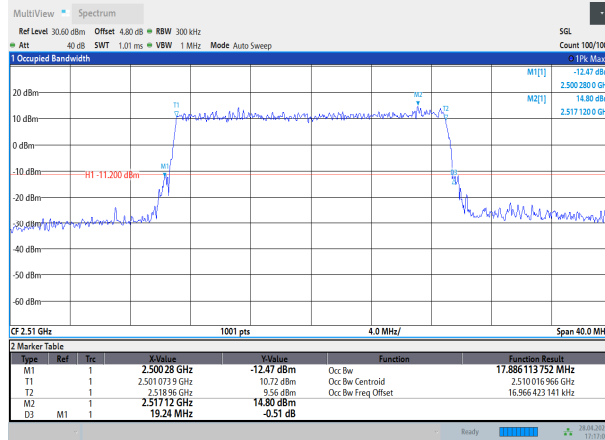
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Band7-20MHz-16QAM-21350-100RB#0



17:18:14 28.04.2023

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



17:17:08 28.04.2023

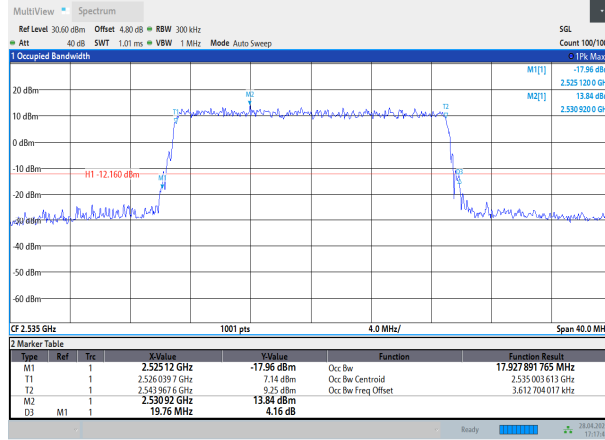


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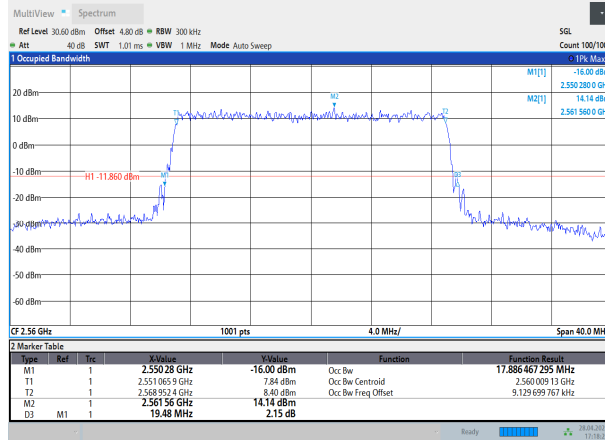
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Band7-20MHz-64QAM-21100-100RB#0



17:17:48 28.04.2023

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



17:18:27 28.04.2023



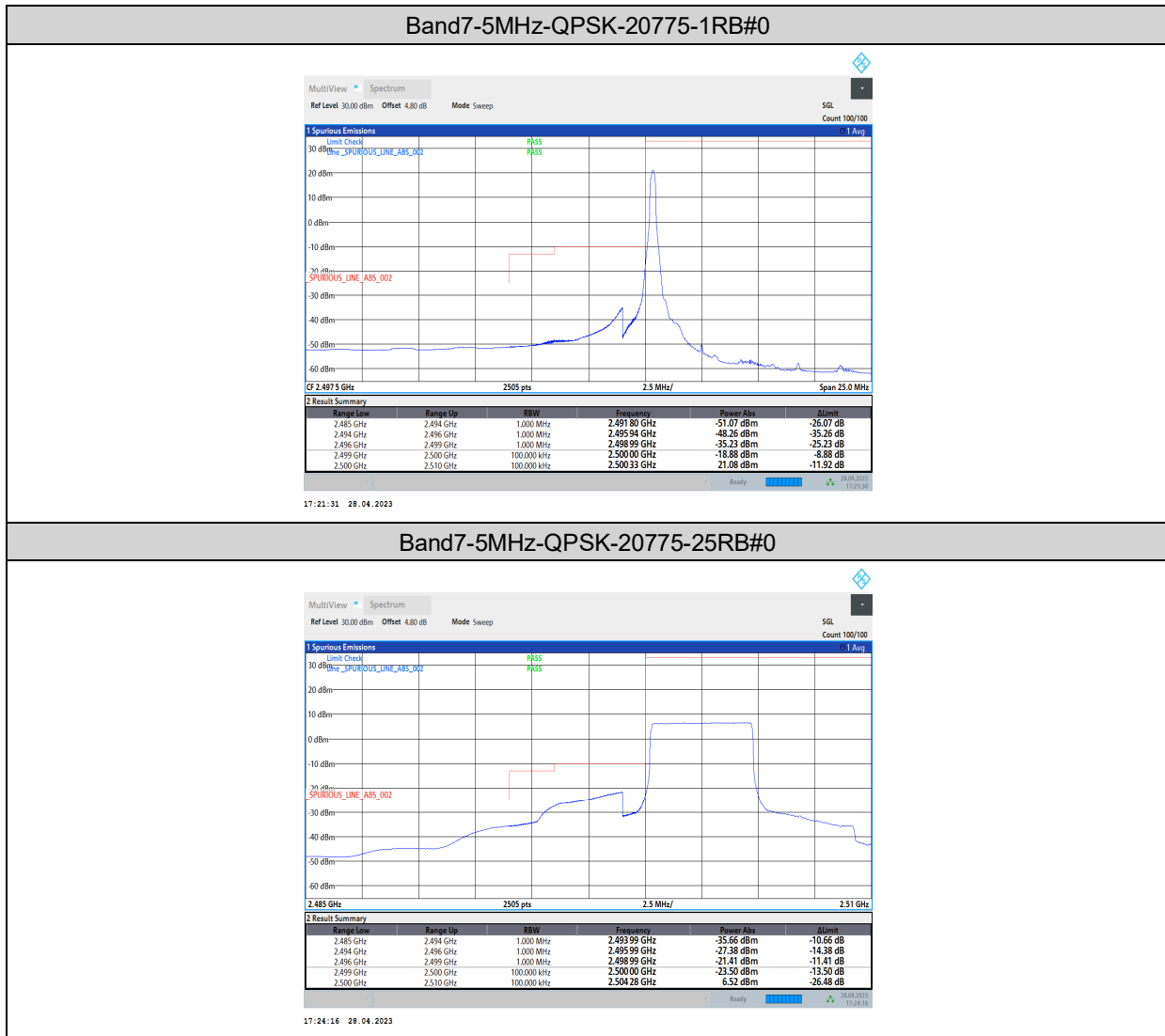
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Band Edge

Test Graphs

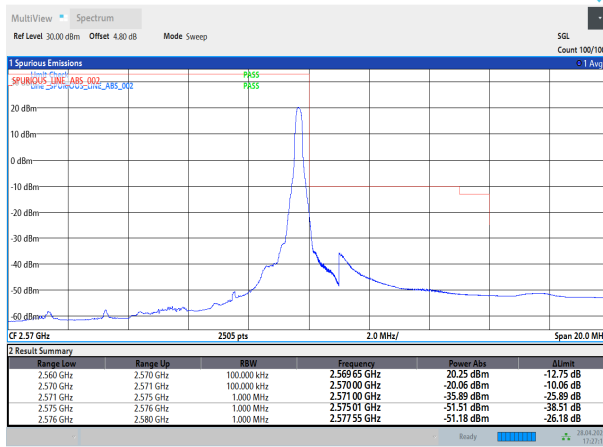


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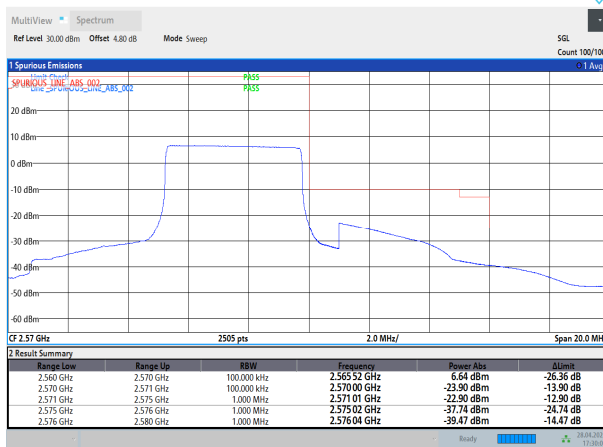
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Band7-5MHz-QPSK-21425-1RB#24



17:27:20 28.04.2023

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



17:30:05 28.04.2023

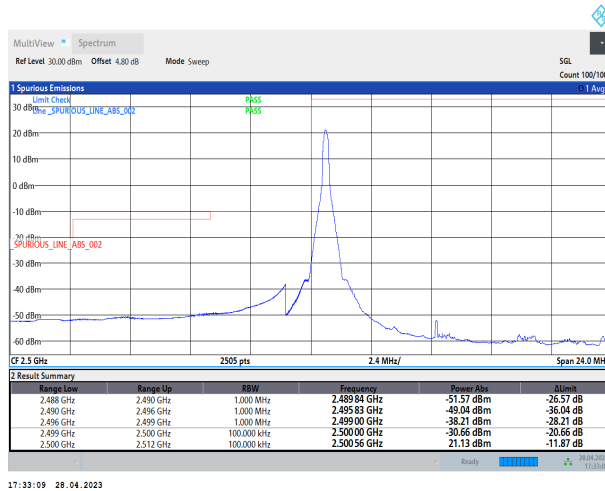


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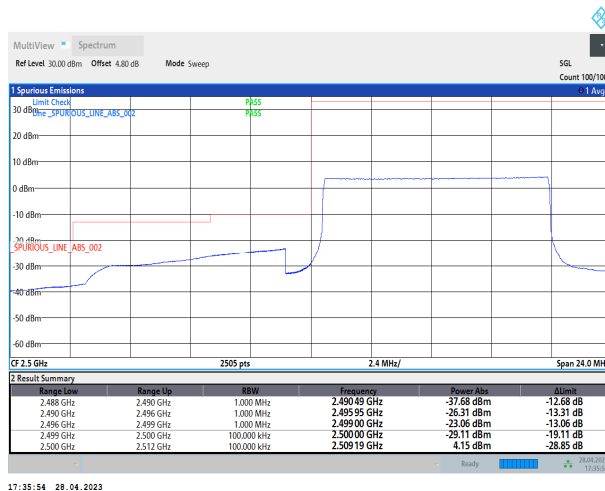
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Band7-10MHz-QPSK-20800-1RB#0



17:33:09 28.04.2023

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



17:35:54 28.04.2023

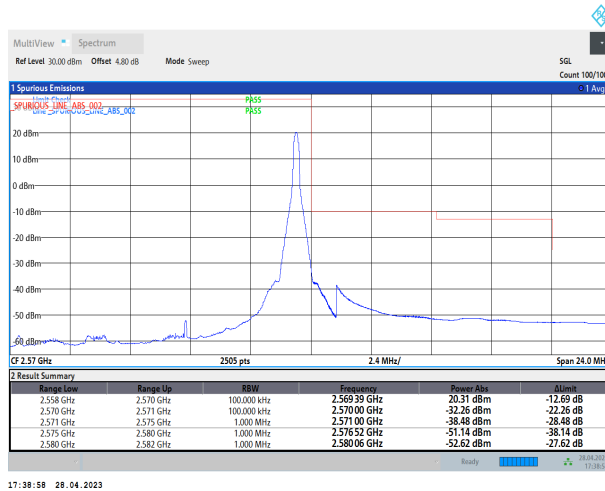


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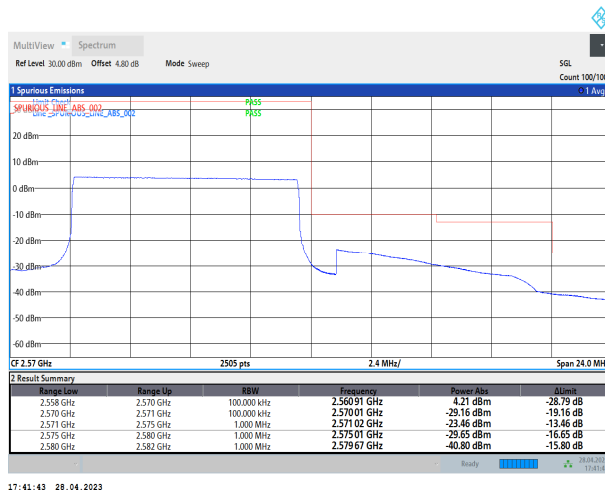
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Band7-10MHz-QPSK-21400-1RB#49



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

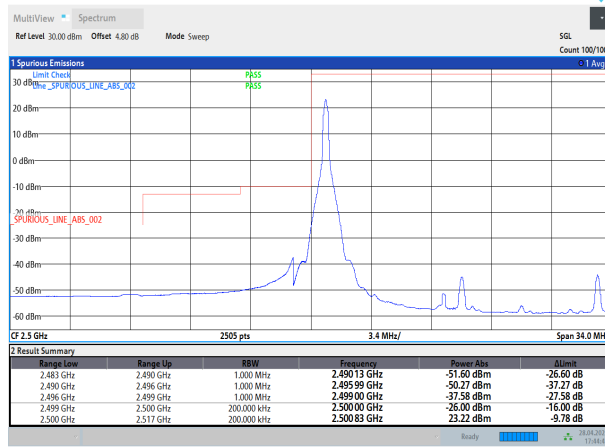


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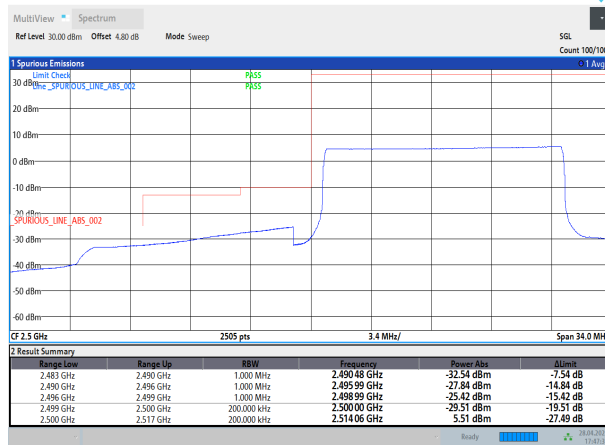
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Band7-15MHz-QPSK-20825-1RB#0



17:44:48 28.04.2023

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



17:47:33 28.04.2023

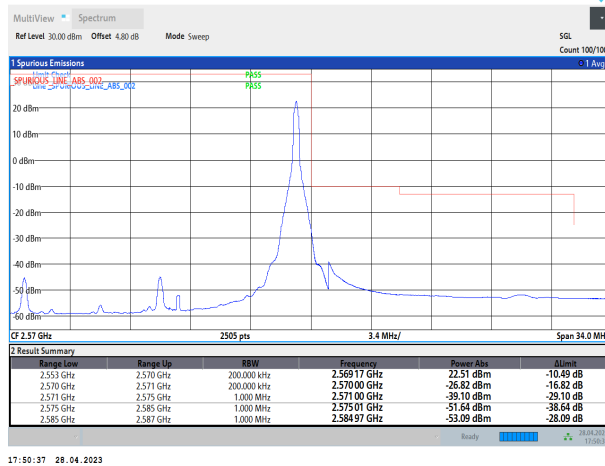


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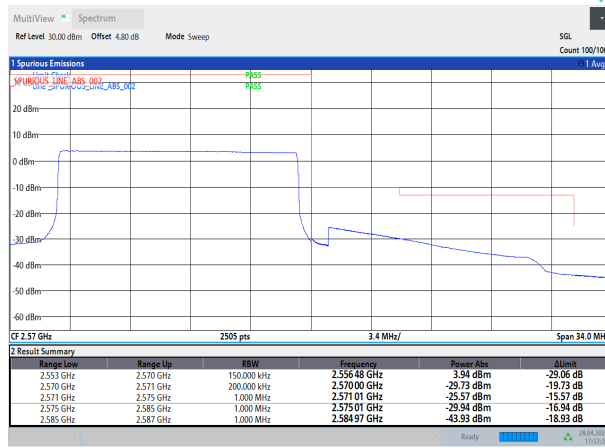
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Band7-15MHz-QPSK-21375-1RB#74



17:50:37 28. 04. 2023

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



17:53:22 28. 04. 2023

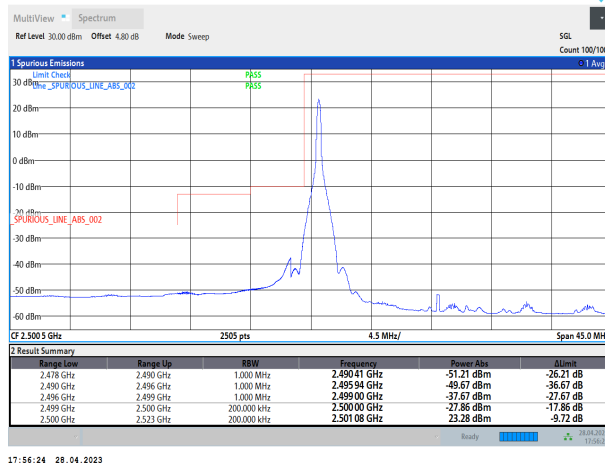


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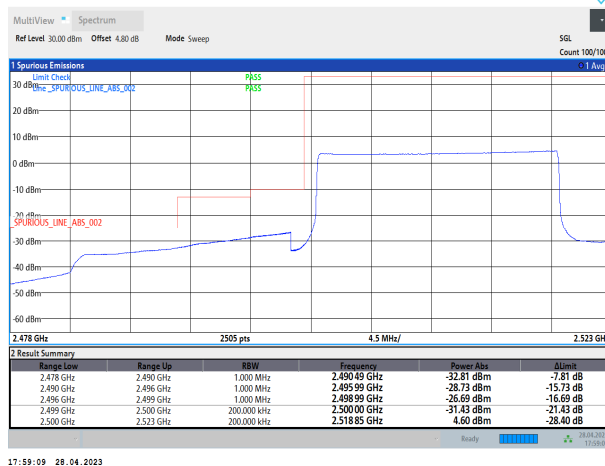
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Band7-20MHz-QPSK-20850-1RB#0



17:56:24 28.04.2023

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



17:59:09 28.04.2023

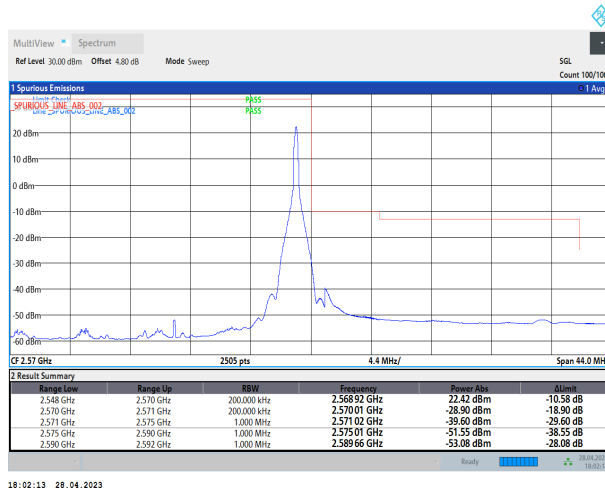


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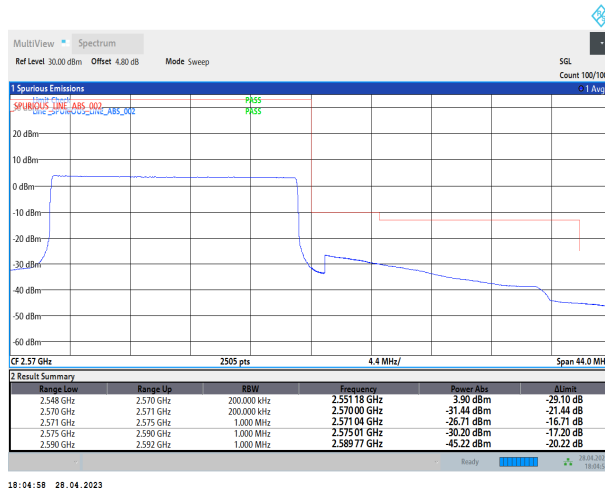
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Band7-20MHz-QPSK-21350-1RB#99



18:02:13 28.04.2023

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



18:04:58 28.04.2023



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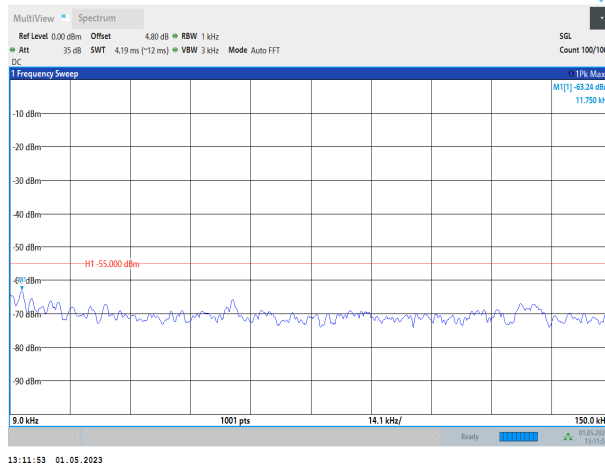
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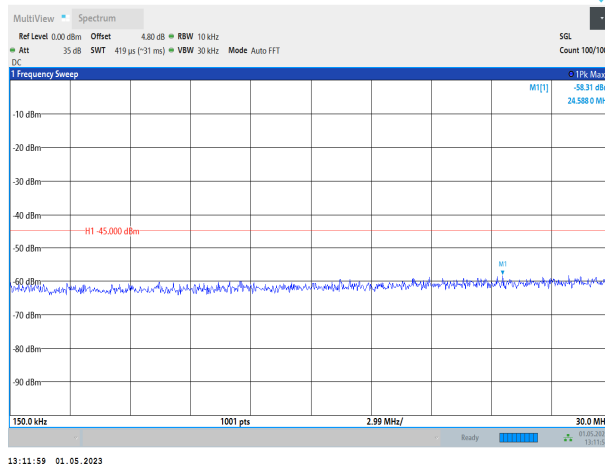
Conducted Spurious Emission

Test Graphs

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



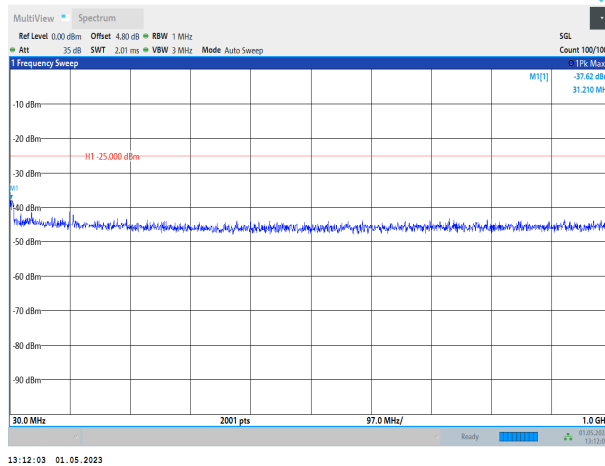
Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



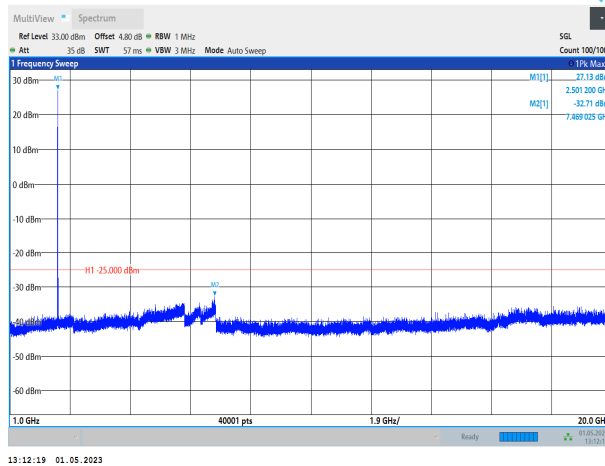
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



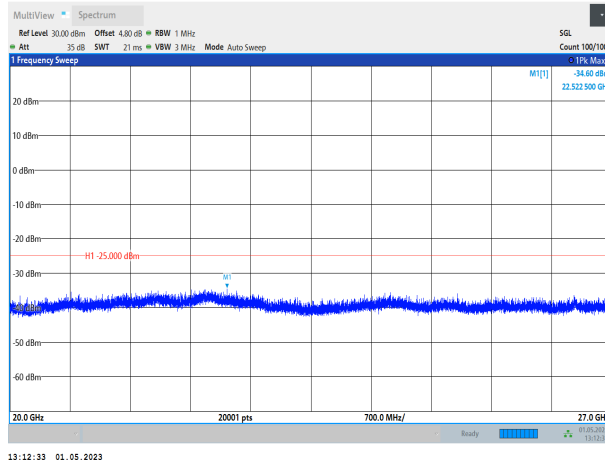
Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



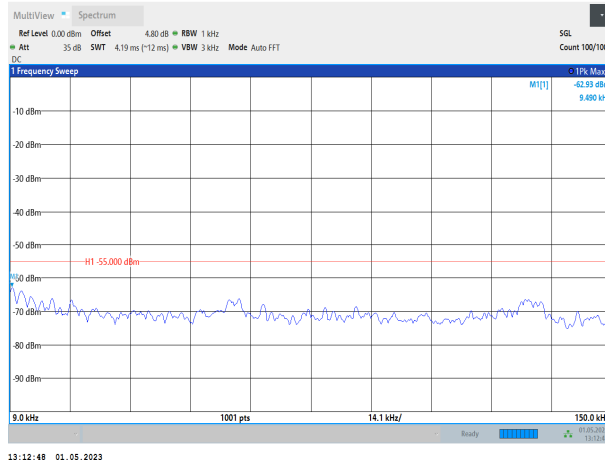
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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

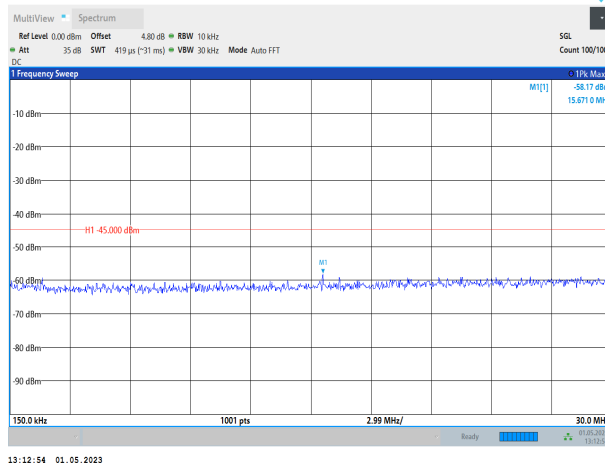


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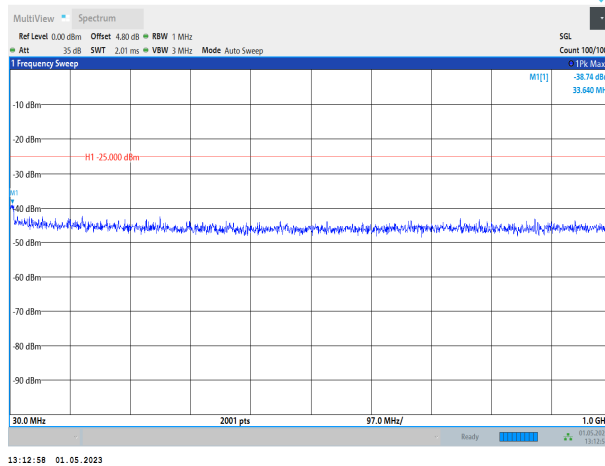
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



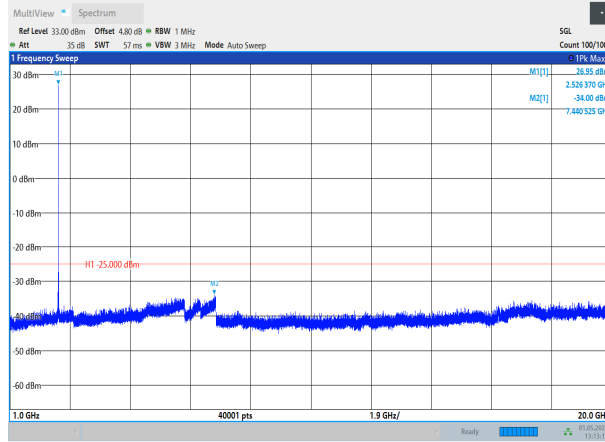
Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



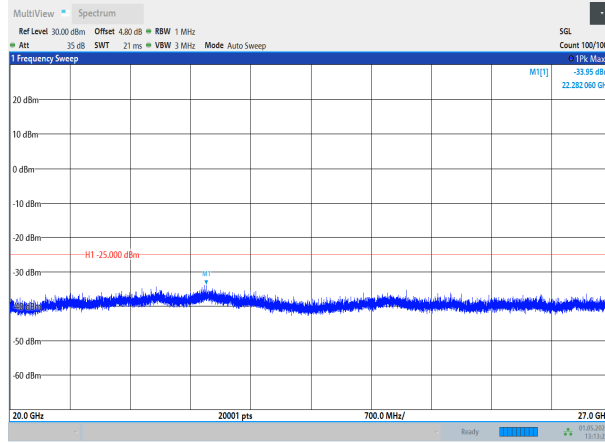
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



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

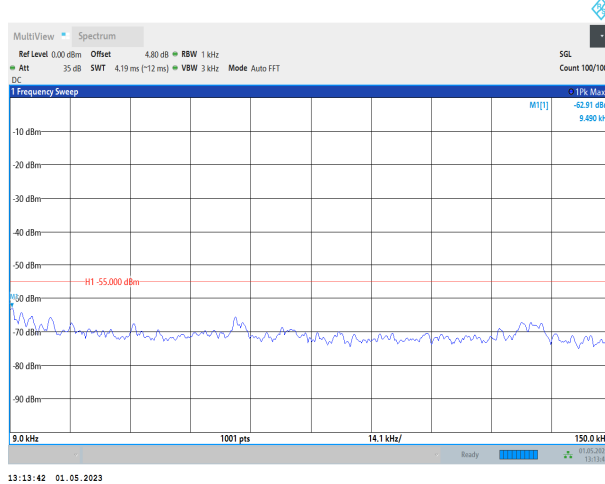


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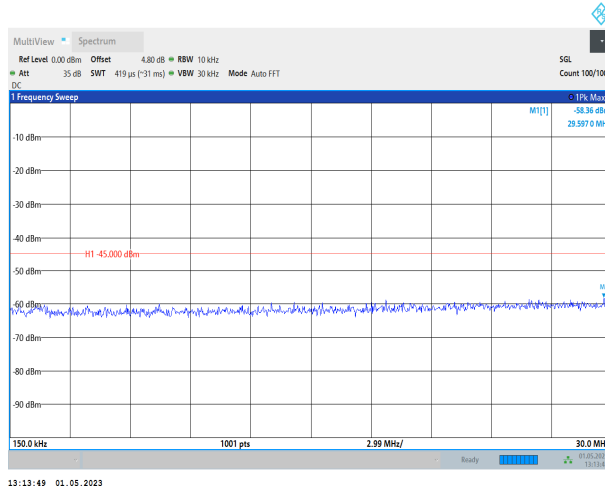
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



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

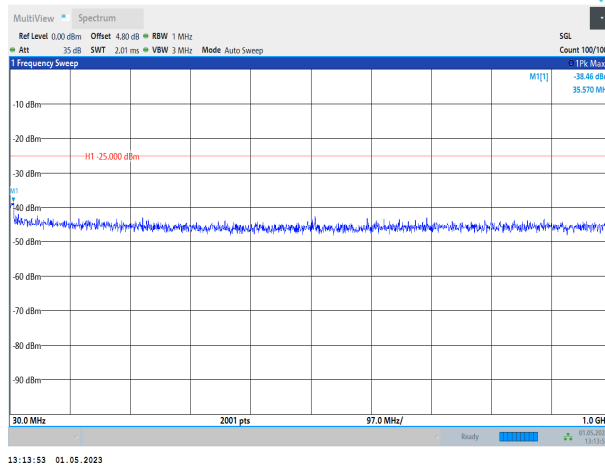


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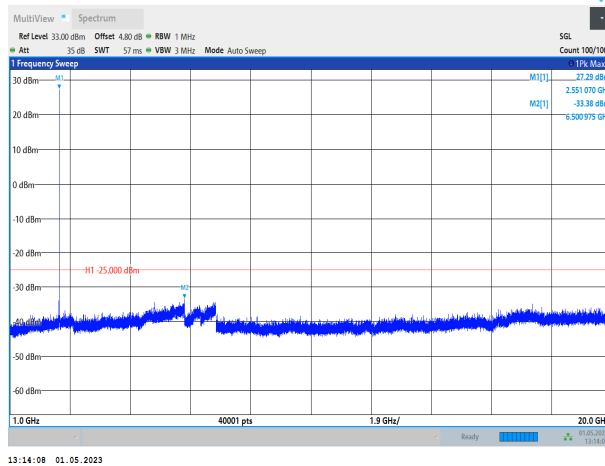
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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

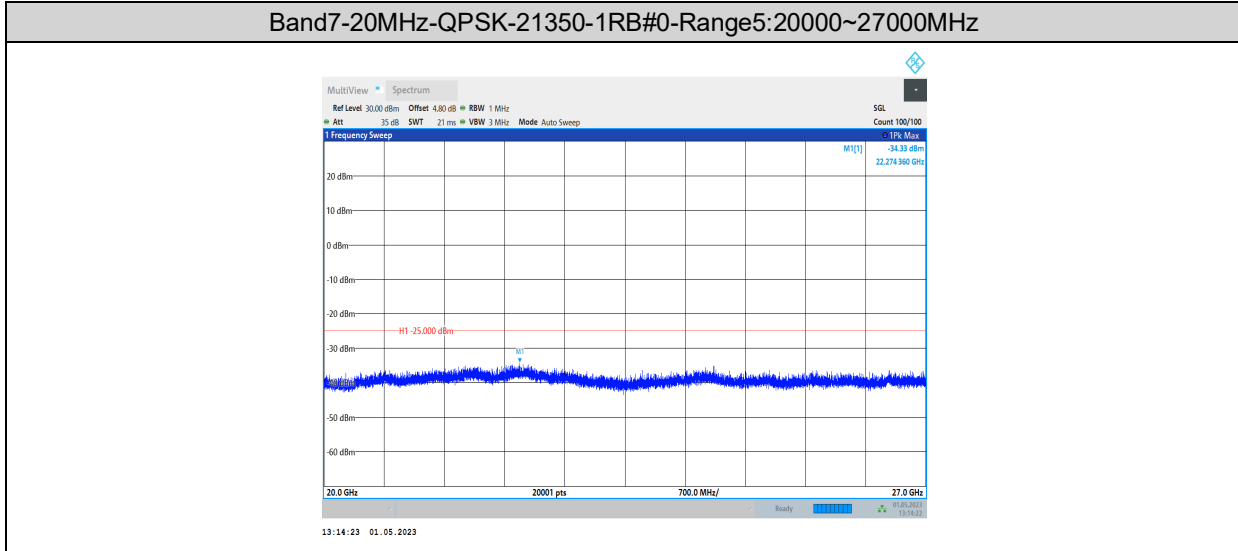


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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band7_20MHz _ TM1

Test Channel = Low ANT0

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	42.16	-45.63	32.88	-65.85	-25.00	40.85	156	269	Horizontal
2	7503.2700	40.13	-43.13	36.44	-61.82	-25.00	36.82	142	16	Horizontal
3	10004.3600	36.47	-39.23	38.50	-59.53	-25.00	34.53	185	0	Horizontal
4	12505.4500	33.75	-36.99	39.18	-59.32	-25.00	34.32	126	0	Horizontal
5	15006.5400	31.69	-34.65	39.21	-59.01	-25.00	34.01	136	226	Horizontal
6	17507.6300	33.57	-34.95	39.22	-57.42	-25.00	32.42	259	209	Horizontal

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	42.13	-45.63	32.88	-65.88	-25.00	40.88	147	135	Vertical
2	7503.2700	39.97	-43.13	36.44	-61.98	-25.00	36.98	175	285	Vertical
3	10004.3600	35.99	-39.23	38.50	-60.01	-25.00	35.01	142	1	Vertical
4	12505.4500	34.50	-36.99	39.18	-58.57	-25.00	33.57	136	7	Vertical
5	15006.5400	31.92	-34.65	39.21	-58.78	-25.00	33.78	259	60	Vertical
6	17507.6300	32.85	-34.95	39.22	-58.14	-25.00	33.14	192	346	Vertical



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Test Band = LTE Band7_20MHz _ TM1

Test Channel = Mid ANT0

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	41.94	-45.50	32.91	-65.91	-25.00	40.91	144	346	Horizontal
2	7578.2700	40.07	-42.97	36.40	-61.76	-25.00	36.76	185	357	Horizontal
3	10104.3600	36.06	-39.14	38.66	-59.68	-25.00	34.68	186	210	Horizontal
4	12630.4500	33.74	-37.33	39.33	-59.52	-25.00	34.52	256	227	Horizontal
5	15156.5400	30.62	-34.37	39.01	-60.00	-25.00	35.00	236	316	Horizontal
6	17682.6300	33.22	-33.89	40.06	-55.87	-25.00	30.87	219	182	Horizontal

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	41.29	-45.50	32.91	-66.56	-25.00	41.56	214	135	Vertical
2	7578.2700	40.13	-42.97	36.40	-61.70	-25.00	36.70	158	356	Vertical
3	10104.3600	35.48	-39.14	38.66	-60.26	-25.00	35.26	111	43	Vertical
4	12630.4500	33.97	-37.33	39.33	-59.29	-25.00	34.29	126	90	Vertical
5	15156.5400	31.10	-34.37	39.01	-59.52	-25.00	34.52	130	224	Vertical
6	17682.6300	33.06	-33.89	40.06	-56.03	-25.00	31.03	160	1	Vertical



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Test Band = LTE Band7_20MHz _ TM1

Test Channel = High ANT0

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	42.67	-45.37	32.94	-65.02	-25.00	40.02	174	61	Horizontal
2	7653.2700	40.49	-43.03	36.49	-61.31	-25.00	36.31	185	90	Horizontal
3	10204.3600	35.37	-39.48	38.81	-60.56	-25.00	35.56	153	270	Horizontal
4	12755.4500	33.19	-36.76	39.55	-59.28	-25.00	34.28	265	150	Horizontal
5	15306.5400	32.48	-34.36	38.82	-58.32	-25.00	33.32	148	150	Horizontal
6	17857.6300	33.24	-34.56	41.24	-55.34	-25.00	30.34	192	76	Horizontal

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	41.96	-45.37	32.94	-65.73	-25.00	40.73	211	0	Vertical
2	7653.2700	40.07	-43.03	36.49	-61.73	-25.00	36.73	148	3	Vertical
3	10204.3600	35.45	-39.48	38.81	-60.48	-25.00	35.48	175	151	Vertical
4	12755.4500	32.95	-36.76	39.55	-59.52	-25.00	34.52	142	225	Vertical
5	15306.5400	32.68	-34.36	38.82	-58.12	-25.00	33.12	126	1	Vertical
6	17857.6300	33.61	-34.56	41.24	-54.97	-25.00	29.97	288	210	Vertical



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Test Band = LTE Band7_20MHz _ TM1

Test Channel = Low ANT4

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	42.29	-45.63	32.88	-65.72	-25.00	40.72	214	105	Horizontal
2	7503.2700	39.47	-43.13	36.44	-62.48	-25.00	37.48	175	0	Horizontal
3	10004.3600	35.71	-39.23	38.50	-60.29	-25.00	35.29	142	269	Horizontal
4	12505.4500	33.00	-36.99	39.18	-60.07	-25.00	35.07	265	356	Horizontal
5	15006.5400	31.40	-34.65	39.21	-59.30	-25.00	34.30	283	0	Horizontal
6	17507.6300	32.94	-34.95	39.22	-58.05	-25.00	33.05	199	120	Horizontal

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	41.91	-45.63	32.88	-66.10	-25.00	41.10	245	256	Vertical
2	7503.2700	39.54	-43.13	36.44	-62.41	-25.00	37.41	156	211	Vertical
3	10004.3600	37.01	-39.23	38.50	-58.99	-25.00	33.99	218	273	Vertical
4	12505.4500	34.57	-36.99	39.18	-58.50	-25.00	33.50	196	195	Vertical
5	15006.5400	31.79	-34.65	39.21	-58.91	-25.00	33.91	148	47	Vertical
6	17507.6300	32.65	-34.95	39.22	-58.34	-25.00	33.34	172	331	Vertical



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Test Band = LTE Band7_20MHz _ TM1

Test Channel = Mid ANT4

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	41.28	-45.50	32.91	-66.57	-25.00	41.57	254	46	Horizontal
2	7578.2700	39.92	-42.97	36.40	-61.91	-25.00	36.91	145	60	Horizontal
3	10104.3600	35.59	-39.14	38.66	-60.15	-25.00	35.15	126	0	Horizontal
4	12630.4500	33.32	-37.33	39.33	-59.94	-25.00	34.94	283	46	Horizontal
5	15156.5400	30.61	-34.37	39.01	-60.01	-25.00	35.01	163	136	Horizontal
6	17682.6300	32.97	-33.89	40.06	-56.12	-25.00	31.12	289	1	Horizontal

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	41.37	-45.50	32.91	-66.48	-25.00	41.48	122	0	Vertical
2	7578.2700	39.34	-42.97	36.40	-62.49	-25.00	37.49	145	191	Vertical
3	10104.3600	35.73	-39.14	38.66	-60.01	-25.00	35.01	187	356	Vertical
4	12630.4500	33.65	-37.33	39.33	-59.61	-25.00	34.61	148	0	Vertical
5	15156.5400	30.93	-34.37	39.01	-59.69	-25.00	34.69	176	159	Vertical
6	17682.6300	33.48	-33.89	40.06	-55.61	-25.00	30.61	291	313	Vertical



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Test Band = LTE Band7_20MHz _ TM1

Test Channel = High ANT4

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	42.39	-45.37	32.94	-65.30	-25.00	40.30	211	315	Horizontal
2	7653.2700	40.08	-43.03	36.49	-61.72	-25.00	36.72	154	269	Horizontal
3	10204.3600	35.14	-39.48	38.81	-60.79	-25.00	35.79	142	7	Horizontal
4	12755.4500	32.61	-36.76	39.55	-59.86	-25.00	34.86	136	46	Horizontal
5	15306.5400	32.13	-34.36	38.82	-58.67	-25.00	33.67	291	151	Horizontal
6	17857.6300	33.20	-34.56	41.24	-55.38	-25.00	30.38	180	269	Horizontal

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	41.99	-45.37	32.94	-65.70	-25.00	40.70	214	347	Vertical
2	7653.2700	39.67	-43.03	36.49	-62.13	-25.00	37.13	158	1	Vertical
3	10204.3600	35.76	-39.48	38.81	-60.17	-25.00	35.17	186	3	Vertical
4	12755.4500	32.70	-36.76	39.55	-59.77	-25.00	34.77	126	226	Vertical
5	15306.5400	32.51	-34.36	38.82	-58.29	-25.00	33.29	291	226	Vertical
6	17857.6300	33.33	-34.56	41.24	-55.25	-25.00	30.25	174	0	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	-0.20	-0.000079	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	0.00	0.000000	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	1.10	0.000434	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-0.30	-0.000118	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-0.70	-0.000276	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-0.40	-0.000158	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-0.40	-0.000158	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	0.70	0.000276	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	0.90	0.000355	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	0.10	0.000039	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-0.50	-0.000197	PASS

---End of Attachment---



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