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Appendix B.4

LTE Band 7



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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
Band7	5MHz	QPSK	20775	1RB#0	23.39	25.29	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.28	25.18	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.33	25.23	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.38	24.28	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.63	25.53	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.24	25.14	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.25	25.15	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.31	24.21	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.52	25.42	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.41	25.31	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.38	25.28	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.44	24.34	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.52	24.42	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.68	24.58	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.54	24.44	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.38	23.28	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.38	24.28	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.5	24.4	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.36	24.26	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.3	23.2	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.6	24.5	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.63	24.53	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.36	24.26	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.41	23.31	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.6	23.5	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.47	23.37	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.6	23.5	33	PASS



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Band7	5MHz	64QAM	20775	25RB#0	20.39	22.29	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.4	23.3	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.43	23.33	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.45	23.35	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.32	22.22	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.53	23.43	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.64	23.54	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.66	23.56	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.42	22.32	33	PASS
Band7	5MHz	256QAM	20775	1RB#0	18.34	20.24	33	PASS
Band7	5MHz	256QAM	20775	1RB#12	18.58	20.48	33	PASS
Band7	5MHz	256QAM	20775	1RB#24	18.22	20.12	33	PASS
Band7	5MHz	256QAM	20775	25RB#0	18.46	20.36	33	PASS
Band7	5MHz	256QAM	21100	1RB#0	18.2	20.1	33	PASS
Band7	5MHz	256QAM	21100	1RB#12	18.52	20.42	33	PASS
Band7	5MHz	256QAM	21100	1RB#24	18.32	20.22	33	PASS
Band7	5MHz	256QAM	21100	25RB#0	18.35	20.25	33	PASS
Band7	5MHz	256QAM	21425	1RB#0	18.39	20.29	33	PASS
Band7	5MHz	256QAM	21425	1RB#12	18.52	20.42	33	PASS
Band7	5MHz	256QAM	21425	1RB#24	18.46	20.36	33	PASS
Band7	5MHz	256QAM	21425	25RB#0	18.42	20.32	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.35	25.25	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.43	25.33	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.31	25.21	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.38	24.28	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.66	25.56	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.3	25.2	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.34	25.24	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.35	24.25	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.57	25.47	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.42	25.32	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.42	25.32	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.43	24.33	33	PASS



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Band7	10MHz	16QAM	20800	1RB#0	22.43	24.33	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.45	24.35	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.51	24.41	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.44	23.34	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.41	24.31	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.39	24.29	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.37	24.27	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.33	23.23	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.55	24.45	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.49	24.39	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.53	24.43	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.49	23.39	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.56	23.46	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.84	23.74	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.69	23.59	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.35	22.25	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.48	23.38	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.51	23.41	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.54	23.44	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.36	22.26	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.6	23.5	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.54	23.44	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.53	23.43	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.49	22.39	33	PASS
Band7	10MHz	256QAM	20800	1RB#0	18.43	20.33	33	PASS
Band7	10MHz	256QAM	20800	1RB#24	18.47	20.37	33	PASS
Band7	10MHz	256QAM	20800	1RB#49	18.42	20.32	33	PASS
Band7	10MHz	256QAM	20800	50RB#0	18.38	20.28	33	PASS
Band7	10MHz	256QAM	21100	1RB#0	18.41	20.31	33	PASS
Band7	10MHz	256QAM	21100	1RB#24	18.3	20.2	33	PASS
Band7	10MHz	256QAM	21100	1RB#49	18.37	20.27	33	PASS
Band7	10MHz	256QAM	21100	50RB#0	18.34	20.24	33	PASS
Band7	10MHz	256QAM	21400	1RB#0	18.38	20.28	33	PASS



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Band7	10MHz	256QAM	21400	1RB#24	18.56	20.46	33	PASS
Band7	10MHz	256QAM	21400	1RB#49	18.5	20.4	33	PASS
Band7	10MHz	256QAM	21400	50RB#0	18.41	20.31	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.11	25.01	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.19	25.09	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.14	25.04	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.32	24.22	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.65	25.55	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.13	25.03	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.99	24.89	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.16	24.06	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.63	25.53	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.37	25.27	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.19	25.09	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.22	24.12	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.19	24.09	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.31	24.21	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.48	24.38	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.28	23.18	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.11	24.01	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.32	24.22	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.12	24.02	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.21	23.11	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.15	24.05	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.39	24.29	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.33	24.23	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.26	23.16	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.1	23	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.44	23.34	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.34	23.24	33	PASS
Band7	15MHz	64QAM	20825	75RB#0	20.32	22.22	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.21	23.11	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.3	23.2	33	PASS



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Band7	15MHz	64QAM	21100	1RB#74	21.19	23.09	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.23	22.13	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.15	23.05	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.43	23.33	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.3	23.2	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.27	22.17	33	PASS
Band7	15MHz	256QAM	20825	1RB#0	18.17	20.07	33	PASS
Band7	15MHz	256QAM	20825	1RB#38	18.29	20.19	33	PASS
Band7	15MHz	256QAM	20825	1RB#74	18.34	20.24	33	PASS
Band7	15MHz	256QAM	20825	75RB#0	18.33	20.23	33	PASS
Band7	15MHz	256QAM	21100	1RB#0	18.19	20.09	33	PASS
Band7	15MHz	256QAM	21100	1RB#38	18.3	20.2	33	PASS
Band7	15MHz	256QAM	21100	1RB#74	18.35	20.25	33	PASS
Band7	15MHz	256QAM	21100	75RB#0	18.24	20.14	33	PASS
Band7	15MHz	256QAM	21375	1RB#0	18.15	20.05	33	PASS
Band7	15MHz	256QAM	21375	1RB#38	18.33	20.23	33	PASS
Band7	15MHz	256QAM	21375	1RB#74	18.5	20.4	33	PASS
Band7	15MHz	256QAM	21375	75RB#0	18.23	20.13	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.03	24.93	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.13	25.03	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.17	25.07	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.31	24.21	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.52	25.42	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.15	25.05	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.98	24.88	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.23	24.13	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.63	25.53	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.27	25.17	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.29	25.19	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.24	24.14	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.84	24.74	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.24	24.14	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.18	24.08	33	PASS



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Band7	20MHz	16QAM	21100	1RB#0	22.24	24.14	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.72	24.62	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.22	24.12	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.23	23.13	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.3	24.2	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.39	24.29	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.26	24.16	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.23	23.13	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.11	23.01	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.33	23.23	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.62	23.52	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.26	22.16	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.25	23.15	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.32	23.22	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.23	23.13	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.29	22.19	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.11	23.01	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.95	23.85	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.38	23.28	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.29	22.19	33	PASS
Band7	20MHz	256QAM	20850	1RB#0	18.31	20.21	33	PASS
Band7	20MHz	256QAM	20850	1RB#49	18.46	20.36	33	PASS
Band7	20MHz	256QAM	20850	1RB#99	18.48	20.38	33	PASS
Band7	20MHz	256QAM	20850	100RB#0	18.28	20.18	33	PASS
Band7	20MHz	256QAM	21100	1RB#0	18.24	20.14	33	PASS
Band7	20MHz	256QAM	21100	1RB#49	18.25	20.15	33	PASS
Band7	20MHz	256QAM	21100	1RB#99	18.33	20.23	33	PASS
Band7	20MHz	256QAM	21100	100RB#0	18.15	20.05	33	PASS
Band7	20MHz	256QAM	21350	1RB#0	18.23	20.13	33	PASS
Band7	20MHz	256QAM	21350	1RB#49	18.32	20.22	33	PASS
Band7	20MHz	256QAM	21350	1RB#99	18.43	20.33	33	PASS
Band7	20MHz	256QAM	21350	100RB#0	18.24	20.14	33	PASS



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Rev.: 01
Page: 8 of 64



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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	5.02	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.30	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.12	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	5.86	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.06	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	5.98	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.22	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.40	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.34	13	PASS
Band7	20MHz	256QAM	20850	100RB#0	6.60	13	PASS
Band7	20MHz	256QAM	21100	100RB#0	6.70	13	PASS
Band7	20MHz	256QAM	21350	100RB#0	6.66	13	PASS



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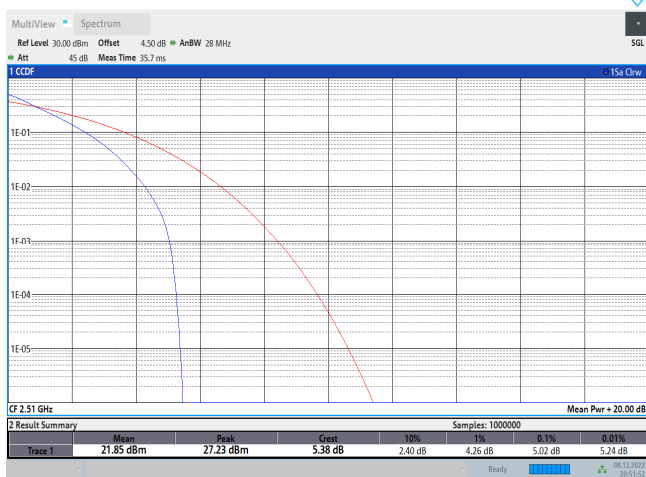
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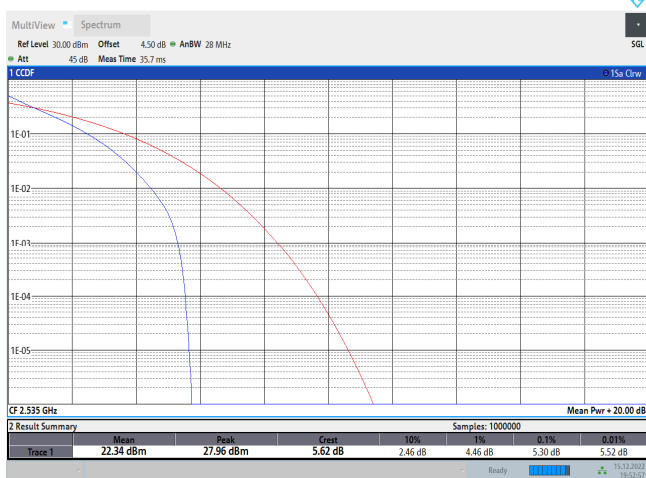
Test Graphs

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



20:51:53 08.12.2022

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

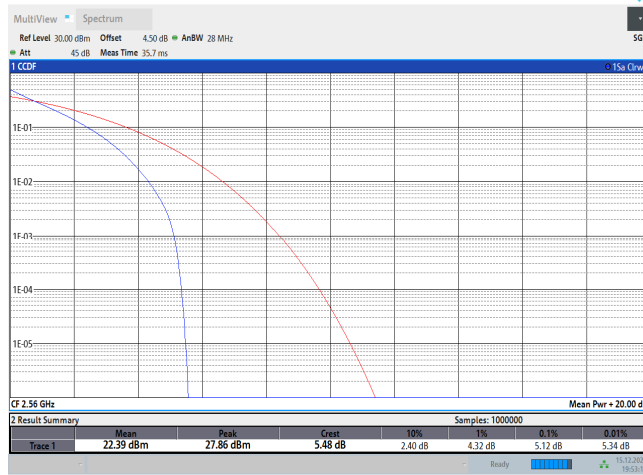


19:52:58 15.12.2022



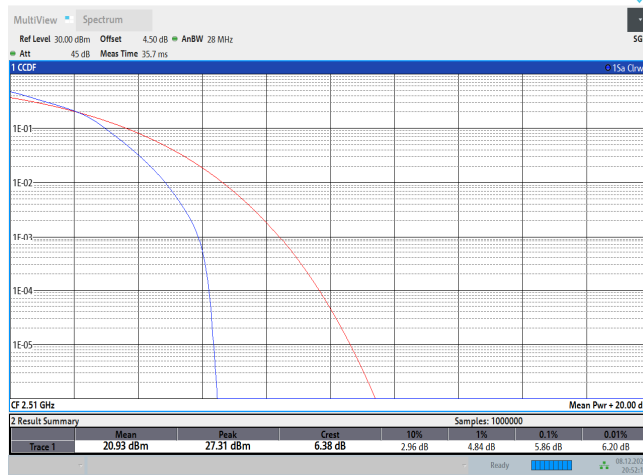
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Band7-20MHz-QPSK-21350-100RB#0



19:53:15 15.12.2022

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



20:52:10 08.12.2022

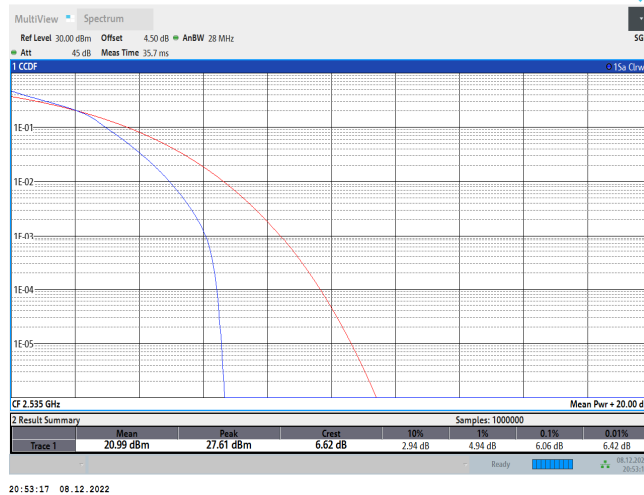


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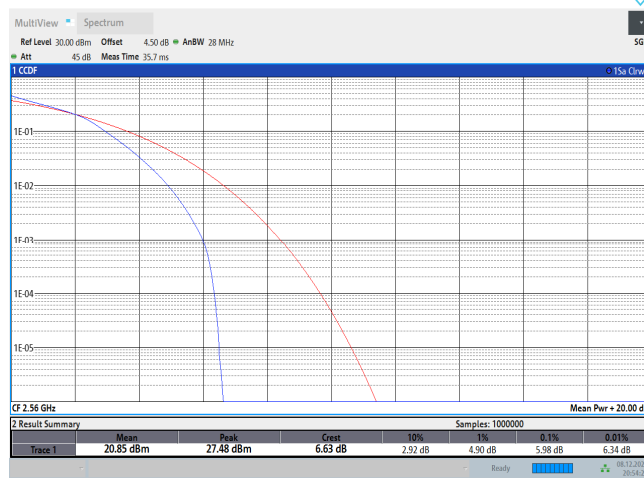
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Band7-20MHz-16QAM-21100-100RB#0



20:53:17 08.12.2022

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



20:54:24 08.12.2022

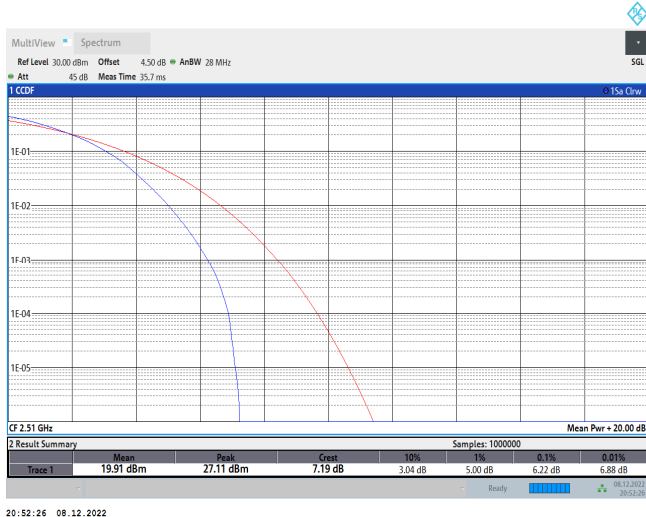


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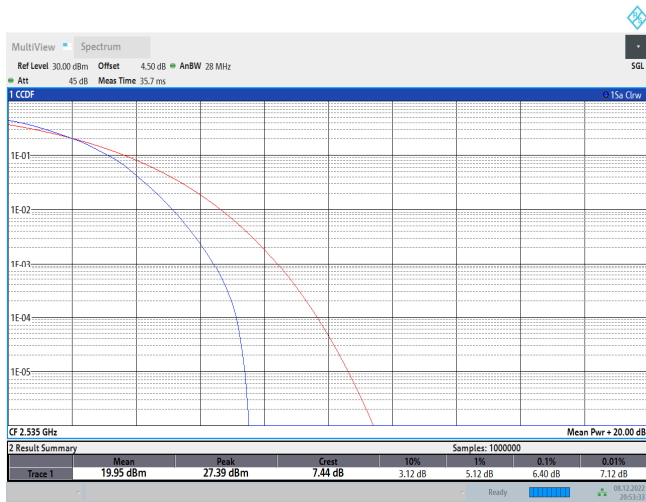
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Band7-20MHz-64QAM-20850-100RB#0



20:52:26 08.12.2022

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

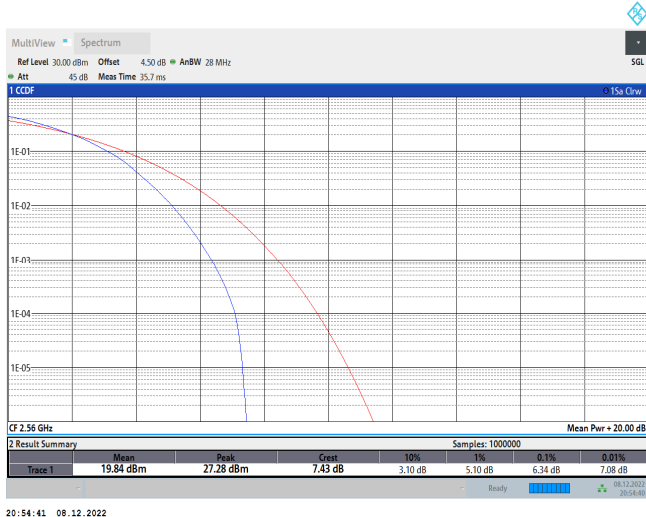


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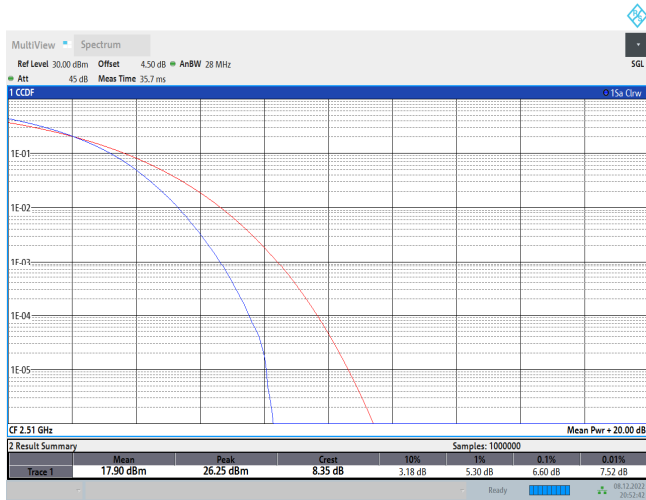
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Band7-20MHz-64QAM-21350-100RB#0



20:54:41 08.12.2022

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

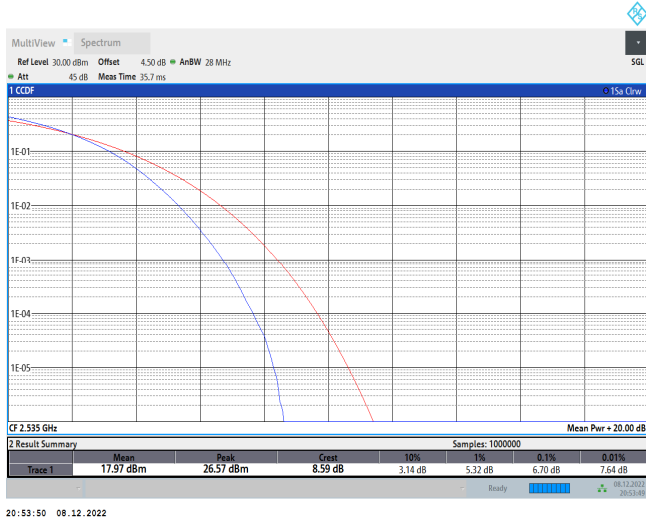


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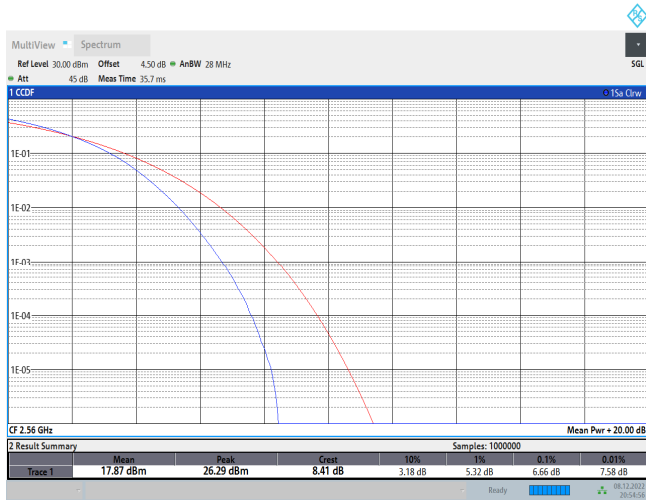
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Band7-20MHz-256QAM-21100-100RB#0



20:53:50 08.12.2022

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



20:54:57 08.12.2022



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

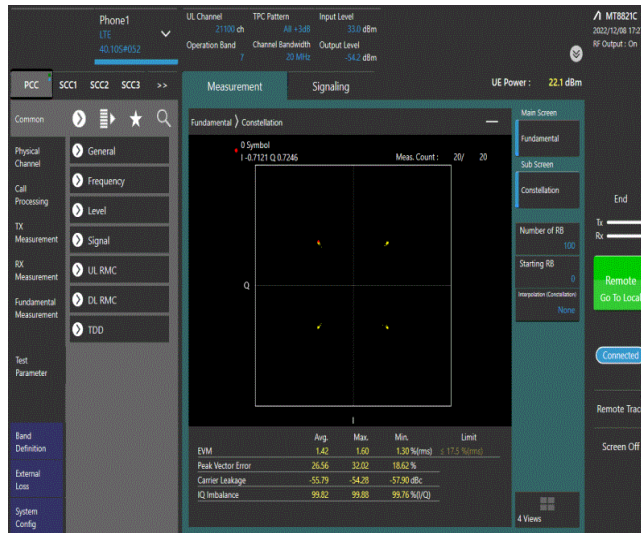


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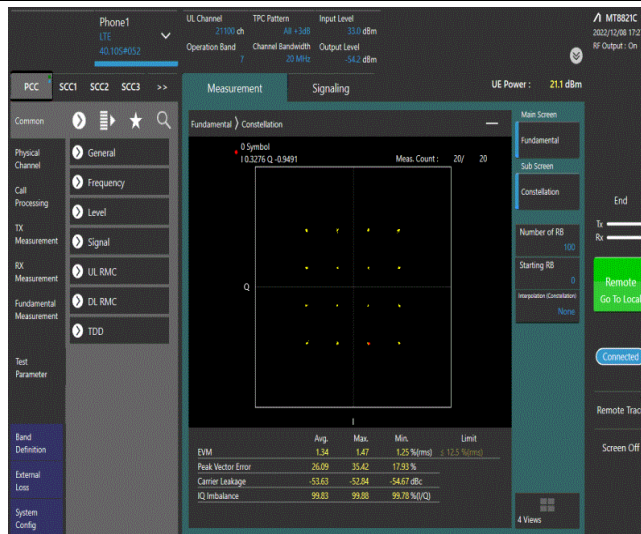
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Test Graphs

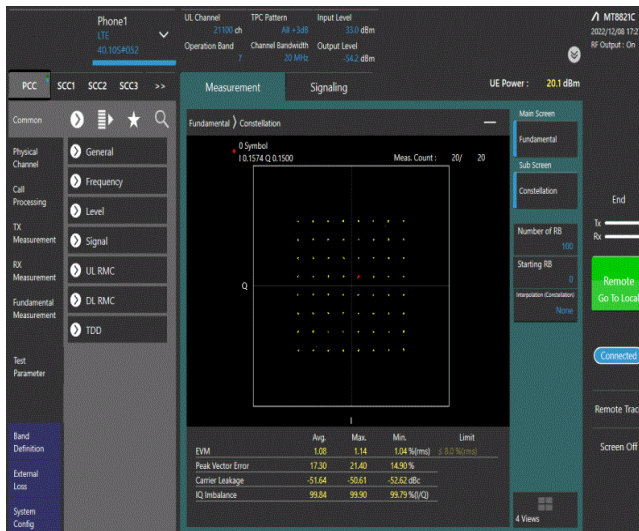
Band7-20MHz-QPSK-21100-100RB#0



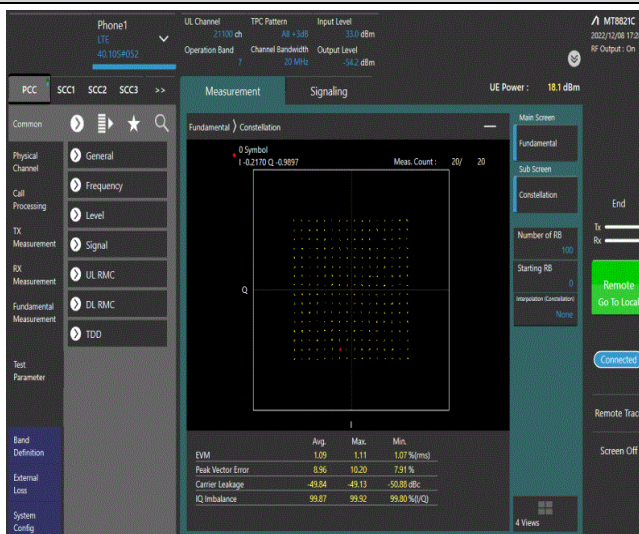
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Band7-20MHz-64QAM-21100-100RB#0



Band7-20MHz-256QAM-21100-100RB#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	20775	25RB#0	4.475	5.01	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.481	5.01	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.483	5.08	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.481	5.01	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.478	5.03	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.479	5.07	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.477	5.00	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.477	5.03	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.473	5.05	PASS
Band7	5MHz	256QAM	20775	25RB#0	4.475	5.07	PASS
Band7	5MHz	256QAM	21100	25RB#0	4.482	5.05	PASS
Band7	5MHz	256QAM	21425	25RB#0	4.479	5.04	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.95	9.94	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.939	9.90	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.95	9.90	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.949	9.90	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.951	9.94	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.949	9.90	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.94	10.04	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.937	9.94	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.937	9.82	PASS
Band7	10MHz	256QAM	20800	50RB#0	8.95	9.80	PASS
Band7	10MHz	256QAM	21100	50RB#0	8.946	9.84	PASS
Band7	10MHz	256QAM	21400	50RB#0	8.939	9.84	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.476	15.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.484	15.03	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.479	14.97	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.502	15.06	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.489	14.97	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.468	14.97	PASS



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Report No.: SEWM2212000297RG01

Rev.: 01

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Band7	15MHz	64QAM	20825	75RB#0	13.456	14.97	PASS
Band7	15MHz	64QAM	21100	75RB#0	13.493	14.94	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.48	14.88	PASS
Band7	15MHz	256QAM	20825	75RB#0	13.487	15.00	PASS
Band7	15MHz	256QAM	21100	75RB#0	13.499	15.03	PASS
Band7	15MHz	256QAM	21375	75RB#0	13.465	14.85	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.889	19.64	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.931	19.76	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.915	19.64	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.901	19.72	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.917	19.64	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.917	19.72	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.891	19.80	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.918	19.76	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.898	19.76	PASS
Band7	20MHz	256QAM	20850	100RB#0	17.865	19.60	PASS
Band7	20MHz	256QAM	21100	100RB#0	17.922	19.92	PASS
Band7	20MHz	256QAM	21350	100RB#0	17.902	19.60	PASS

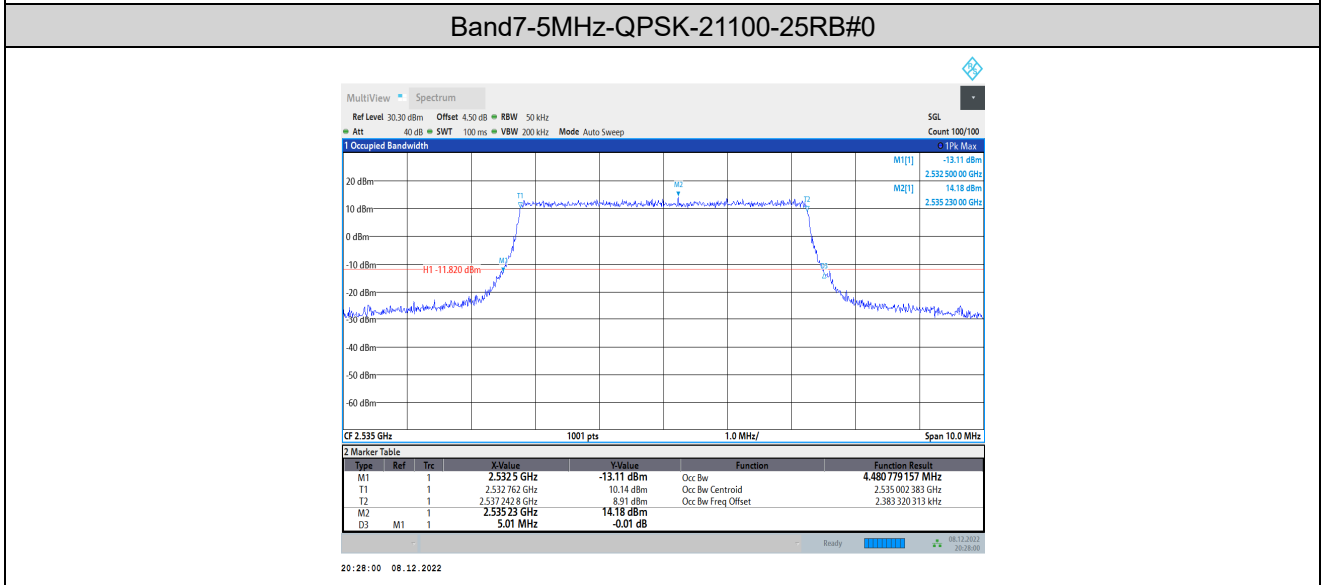
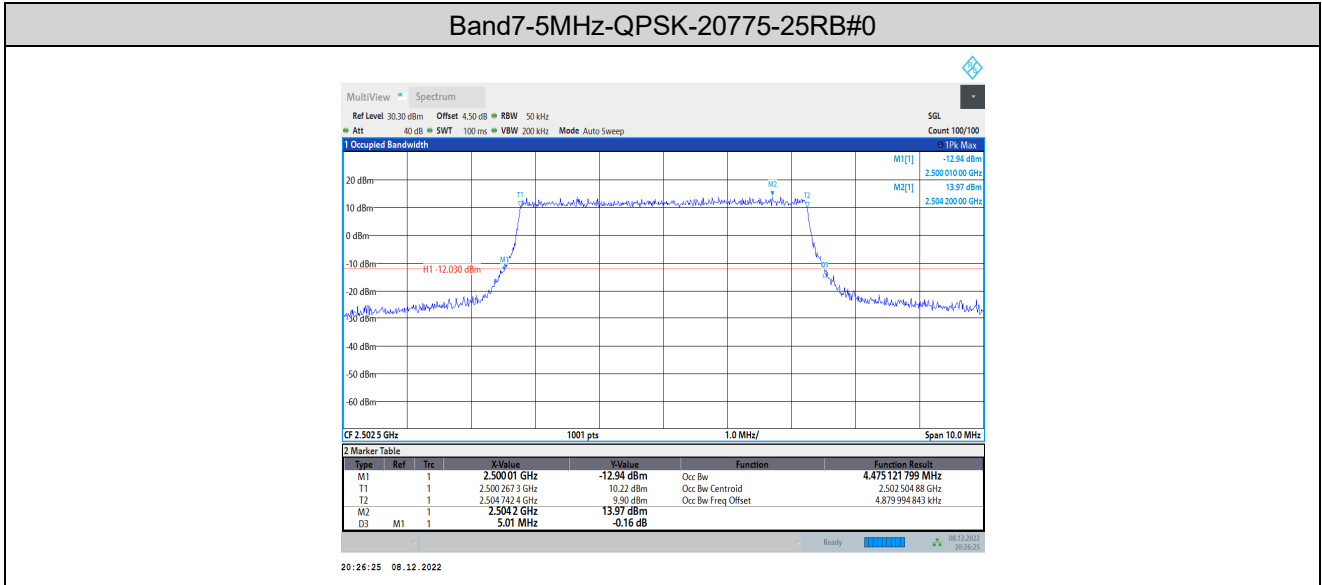


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Test Graphs

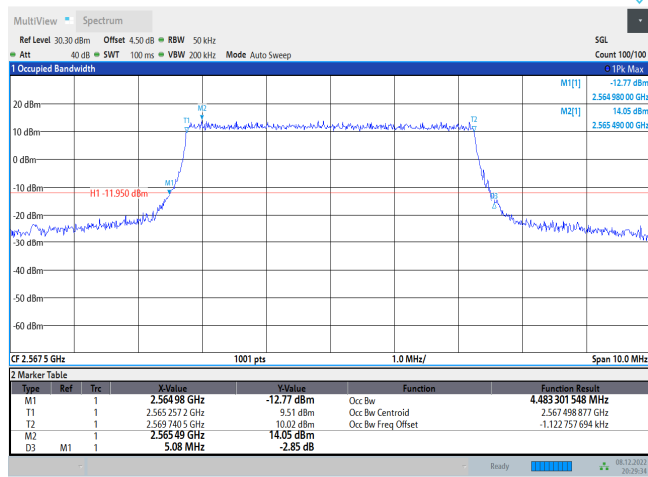


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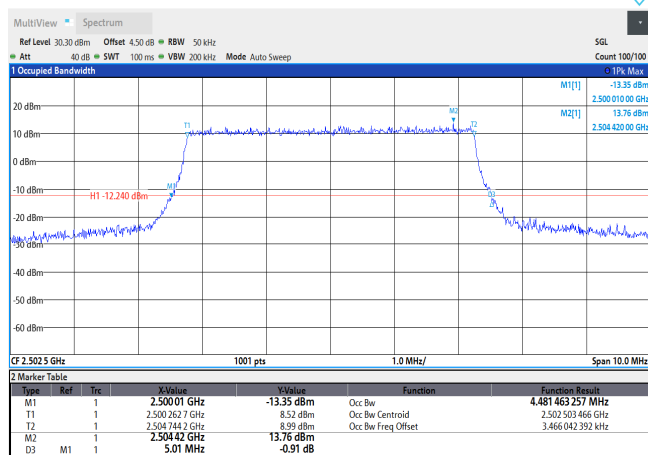
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Band7-5MHz-QPSK-21425-25RB#0



20:29:35 08.12.2022

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



20:26:48 08.12.2022

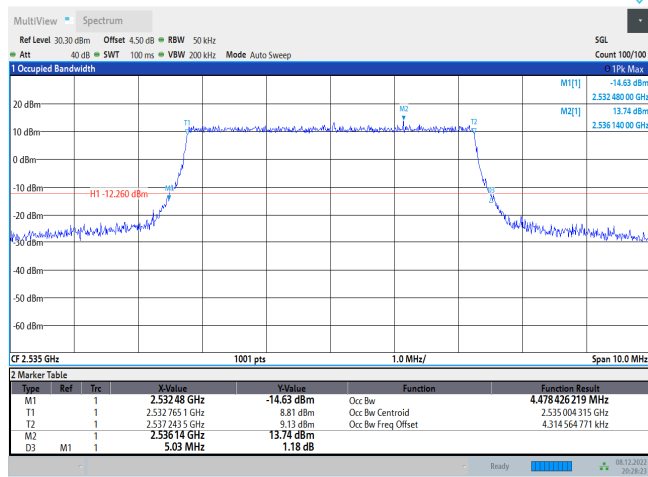


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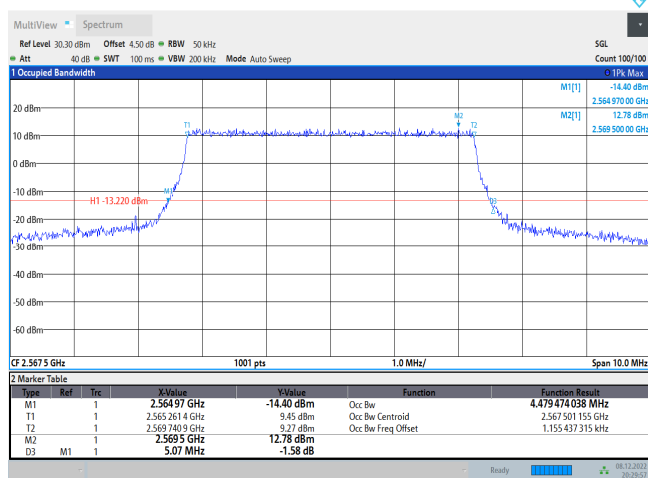
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Band7-5MHz-16QAM-21100-25RB#0



20:28:23 08.12.2022

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

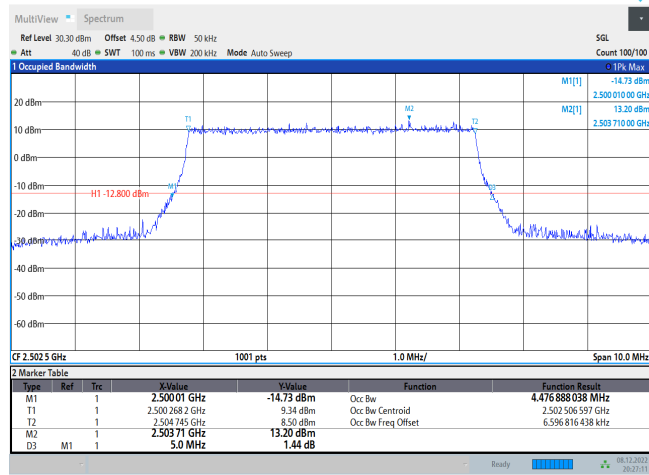


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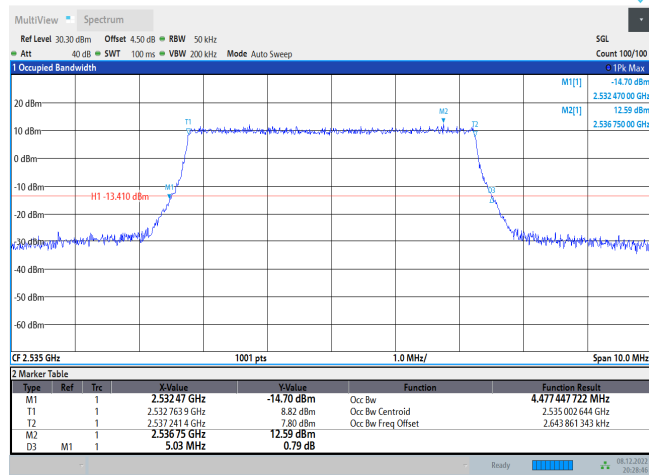
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Band7-5MHz-64QAM-20775-25RB#0



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



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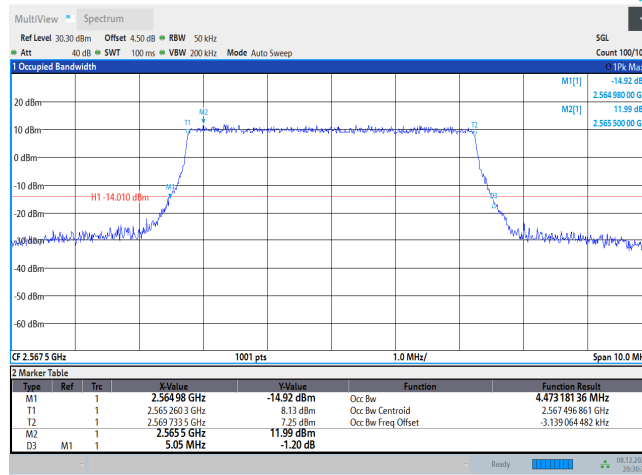


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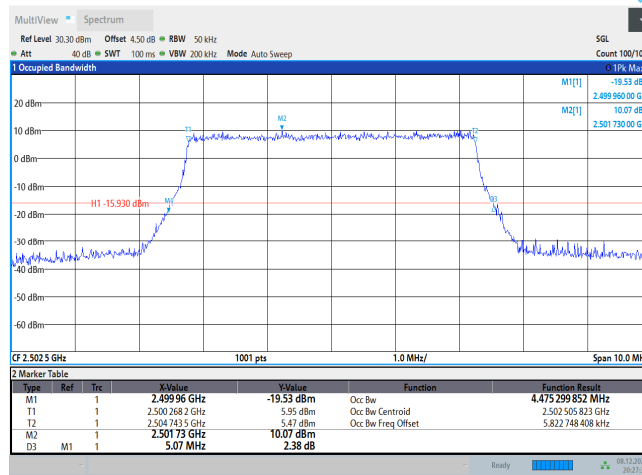
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Band7-5MHz-64QAM-21425-25RB#0



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Band7-5MHz-256QAM-20775-25RB#0



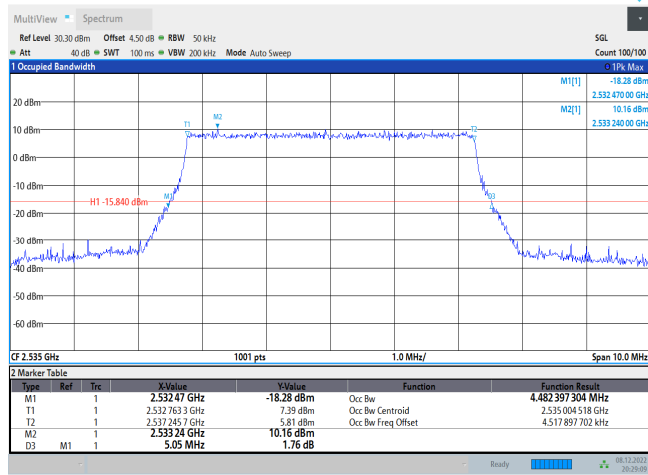
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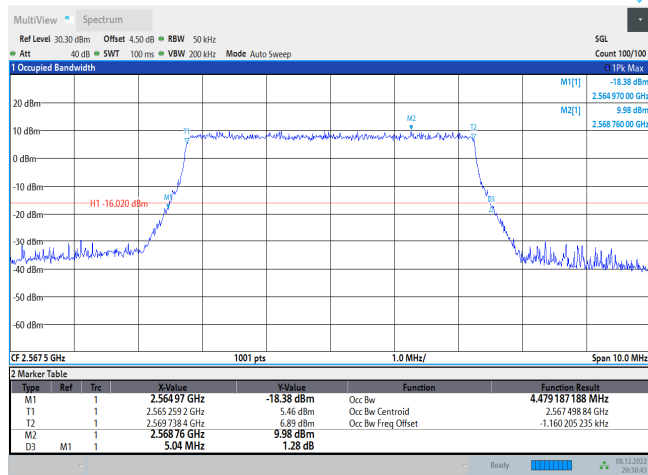
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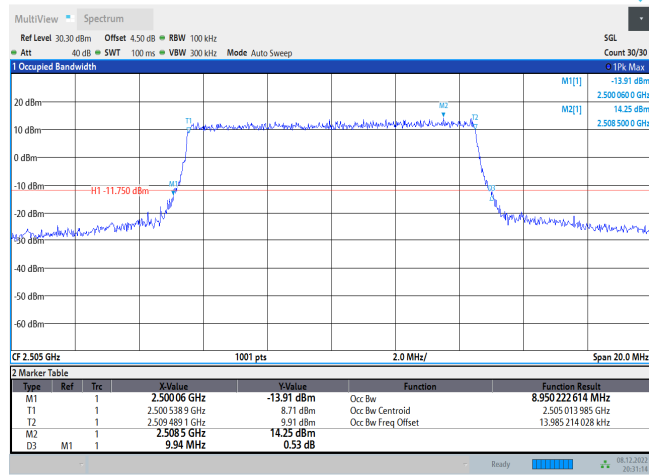
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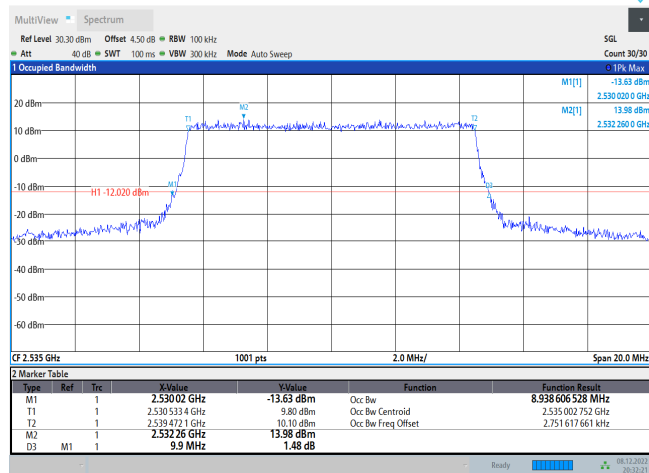


Band7-10MHz-QPSK-20800-50RB#0



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

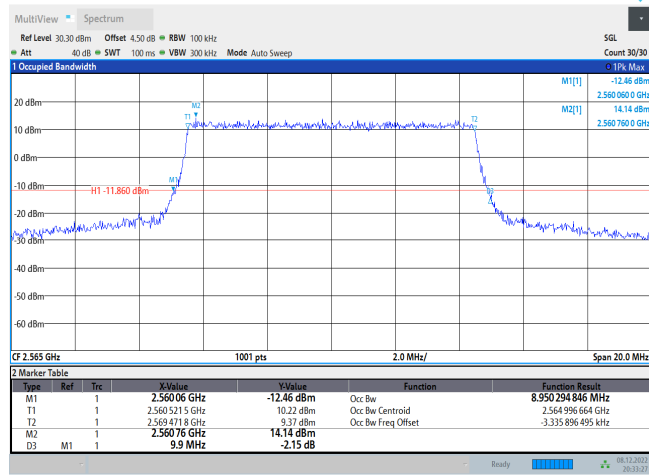


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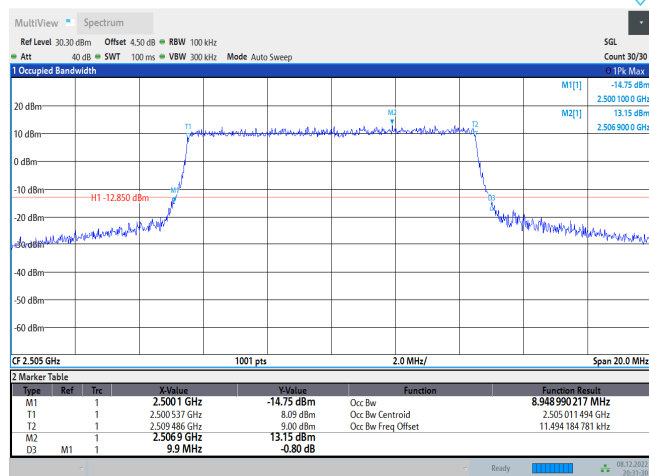
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Band7-10MHz-QPSK-21400-50RB#0



20:33:28 08.12.2022

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



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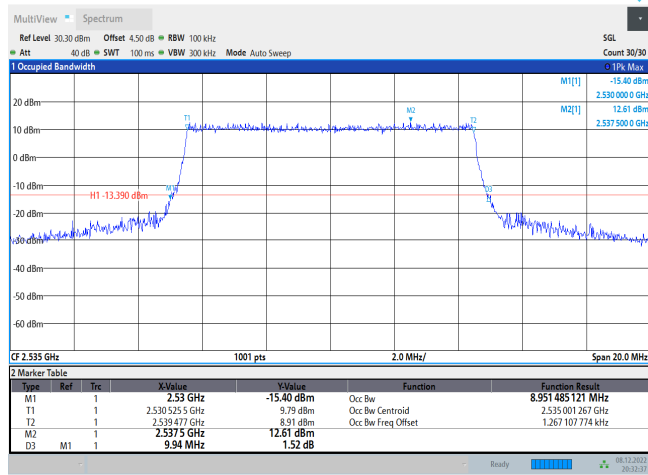
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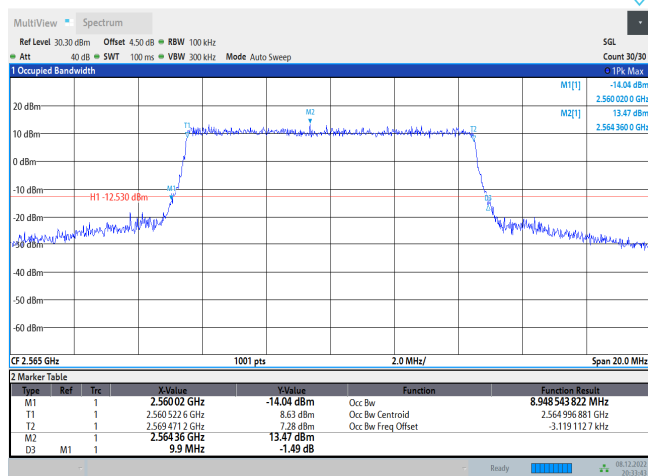
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Band7-10MHz-16QAM-21100-50RB#0



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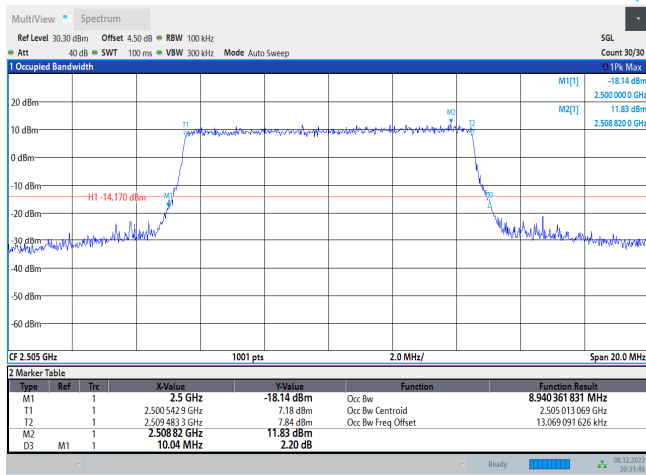


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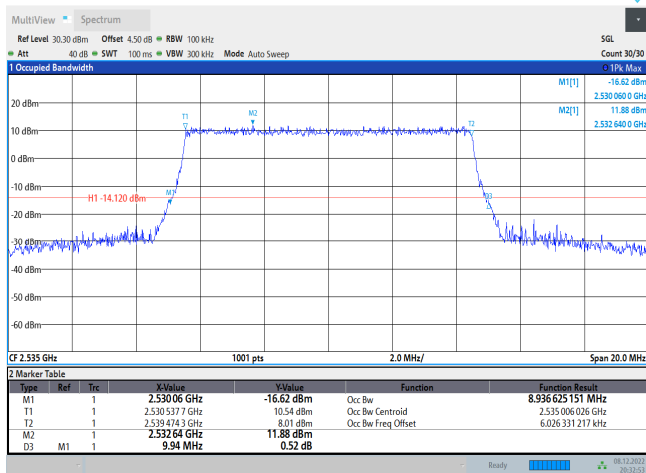
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Band7-10MHz-64QAM-20800-50RB#0



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

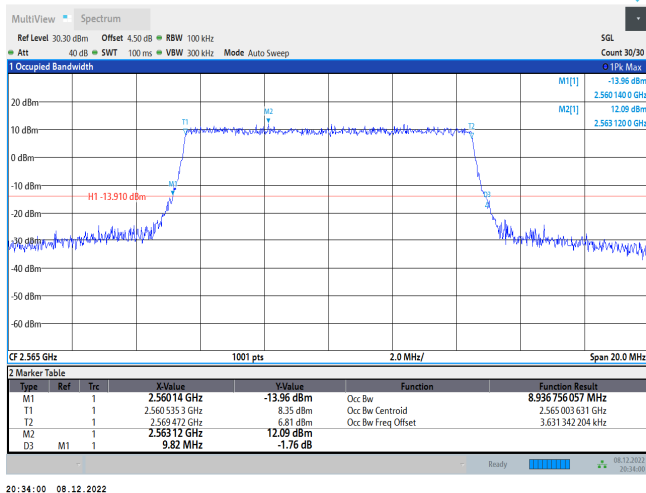


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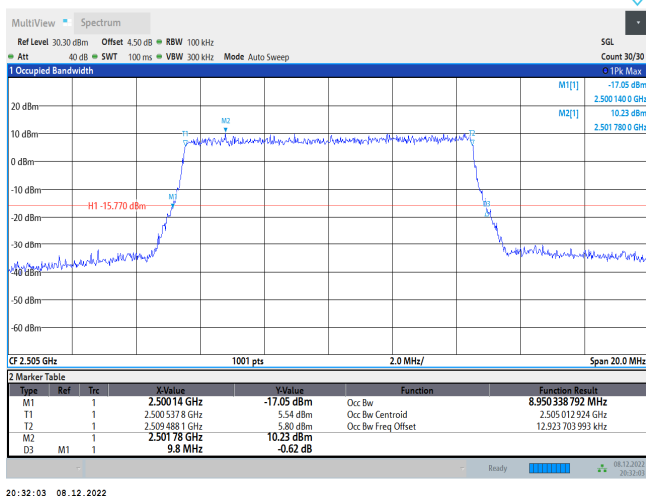


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Band7-10MHz-64QAM-21400-50RB#0



Band7-10MHz-256QAM-20800-50RB#0

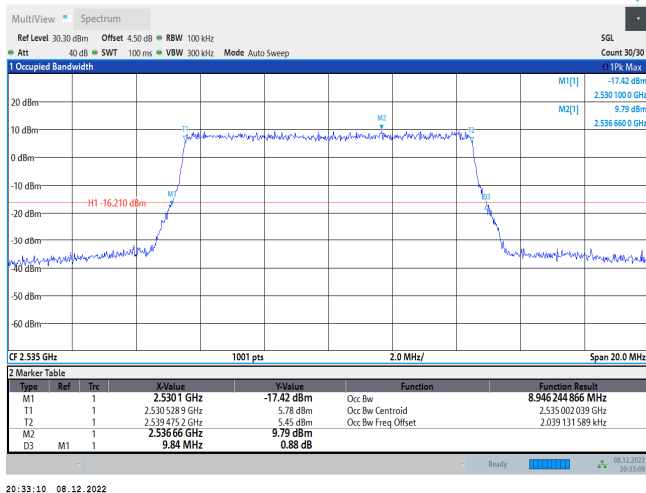


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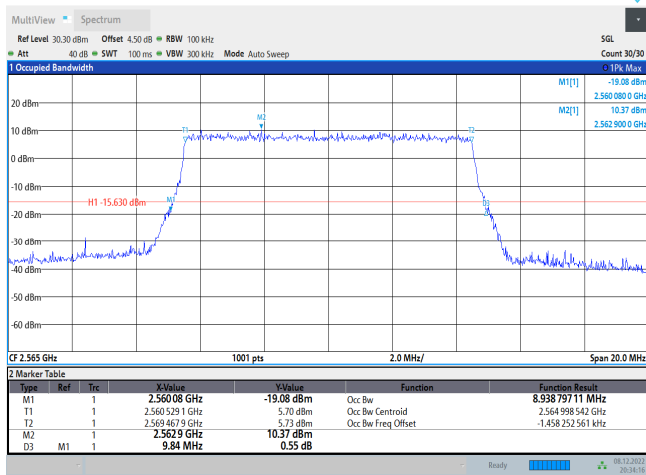
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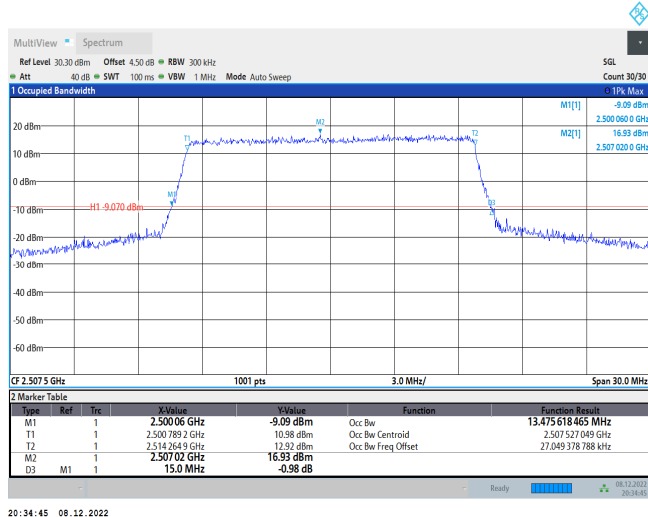


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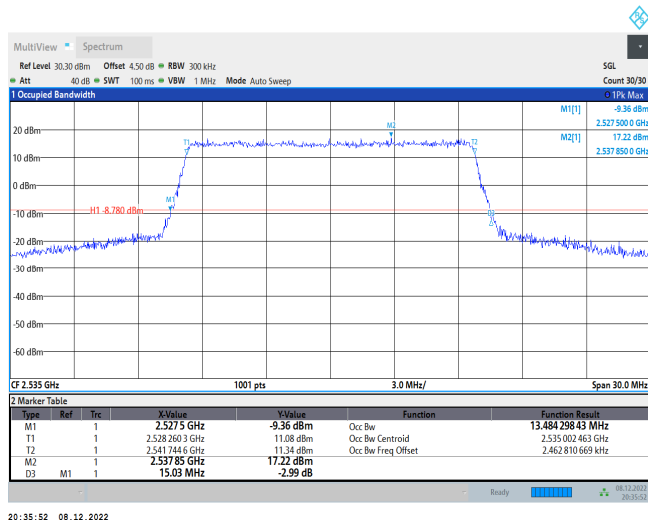


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Band7-15MHz-QPSK-20825-75RB#0



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

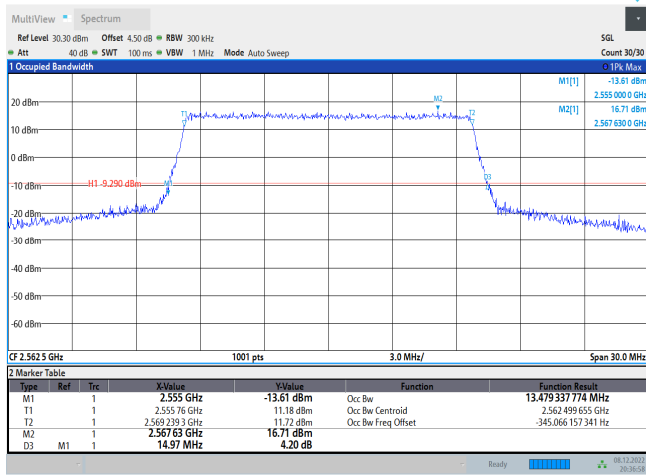


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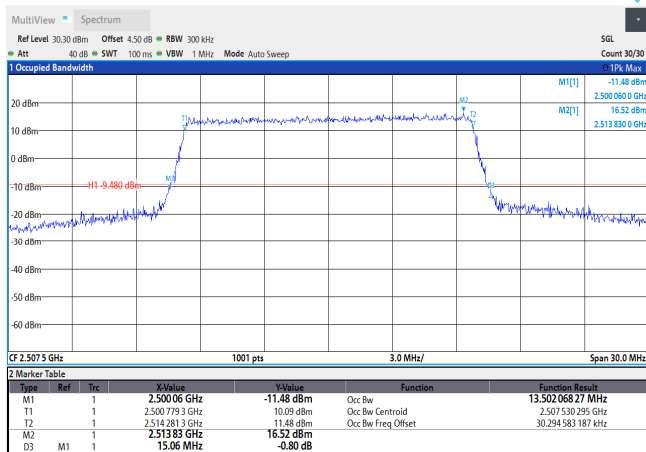
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Band7-15MHz-QPSK-21375-75RB#0



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

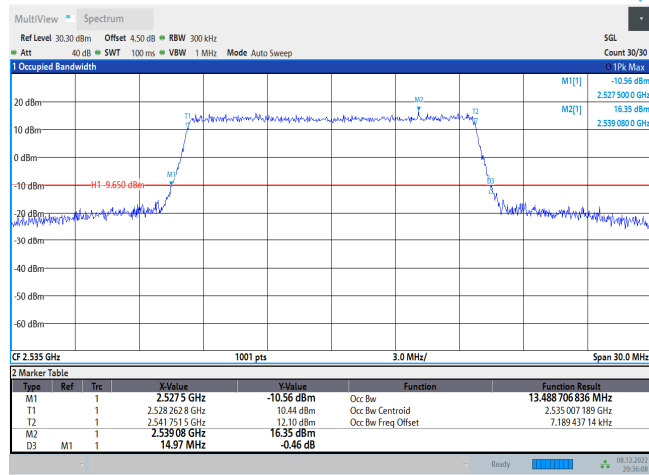


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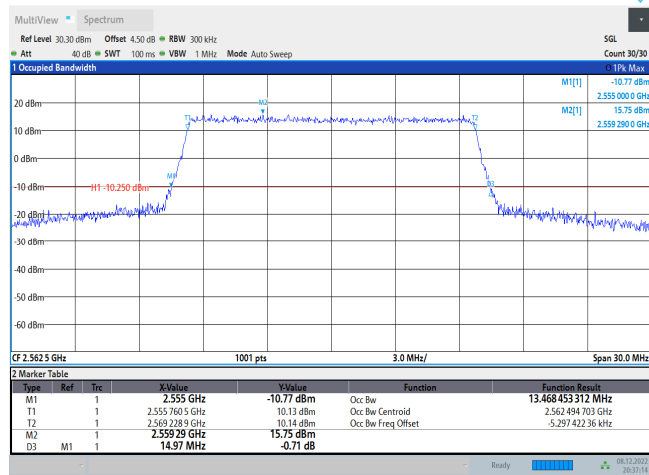
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Band7-15MHz-16QAM-21100-75RB#0



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



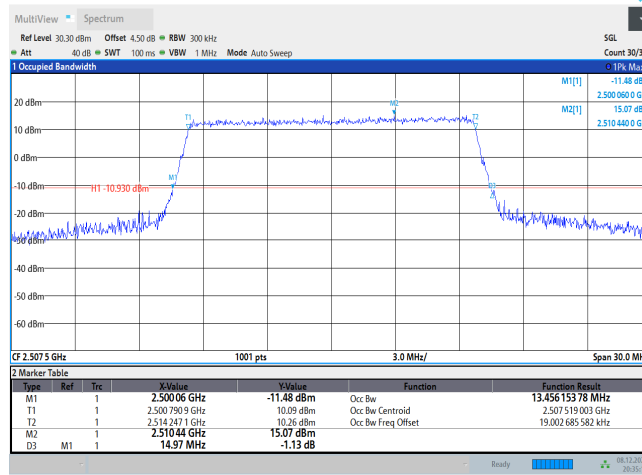
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Wireless Laboratory

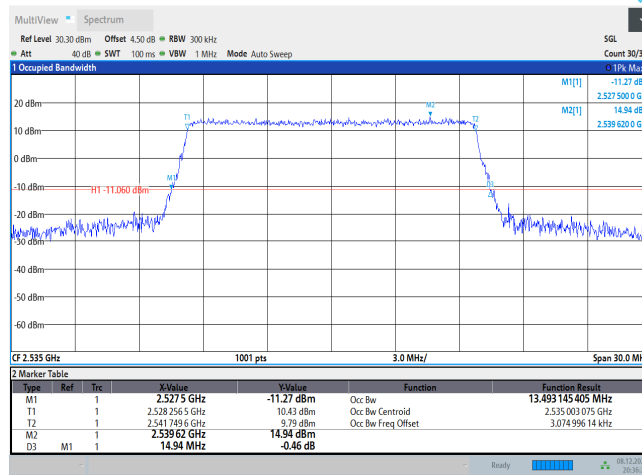
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Band7-15MHz-64QAM-20825-75RB#0



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



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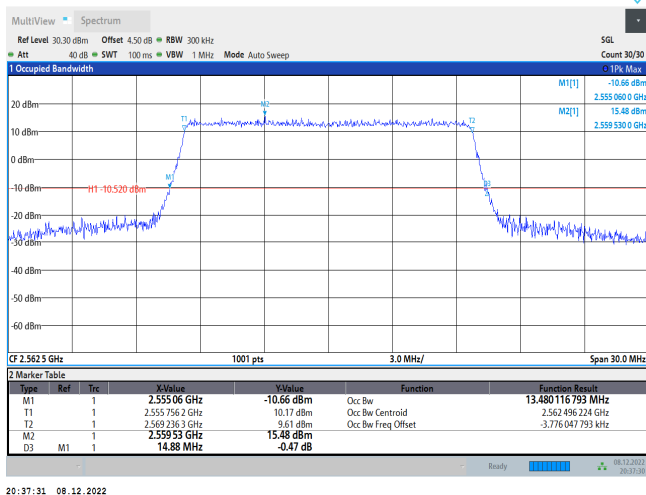


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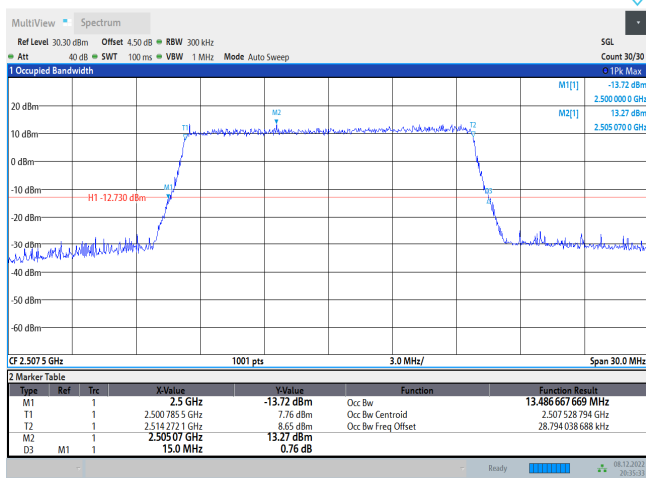
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Band7-15MHz-64QAM-21375-75RB#0



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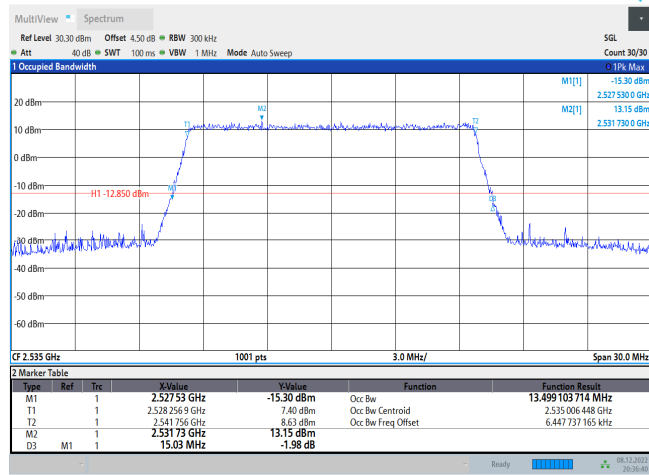
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 Wireless Laboratory

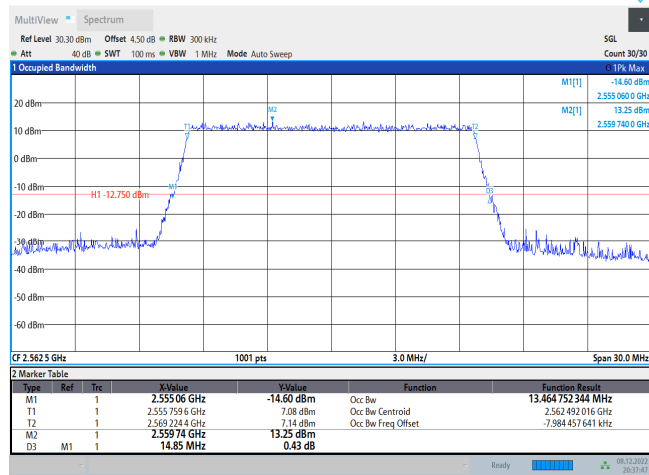
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Band7-15MHz-256QAM-21100-75RB#0



20:36:40 08.12.2022

Band7-15MHz-256QAM-21375-75RB#0



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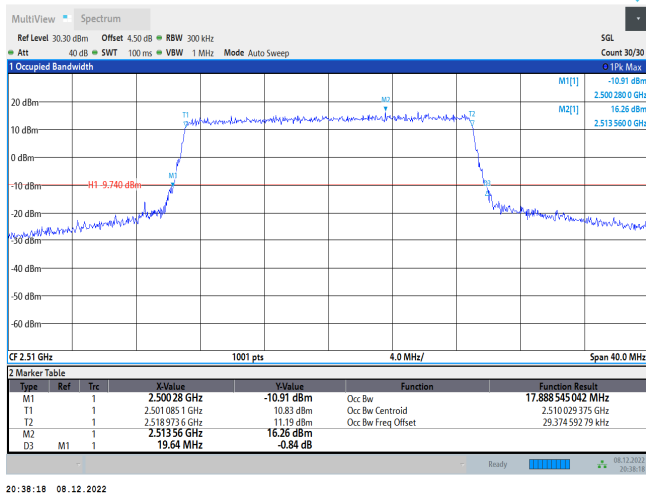


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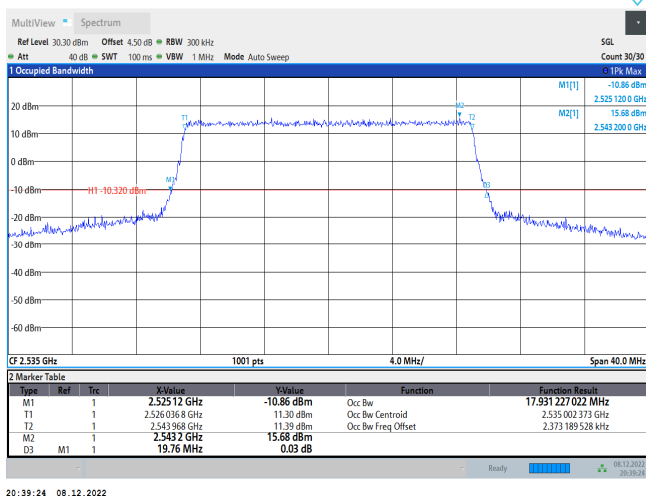
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Band7-20MHz-QPSK-20850-100RB#0



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

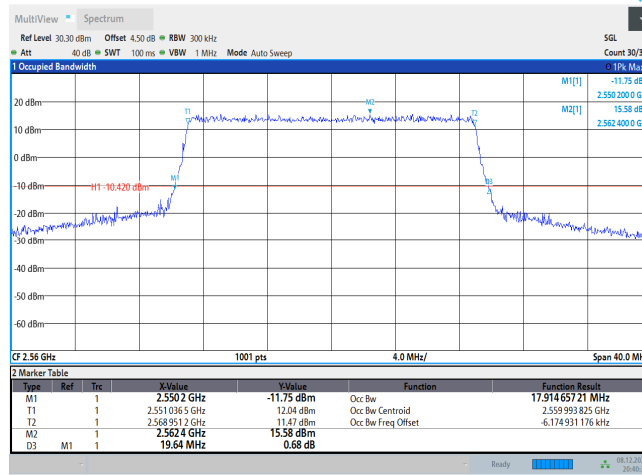


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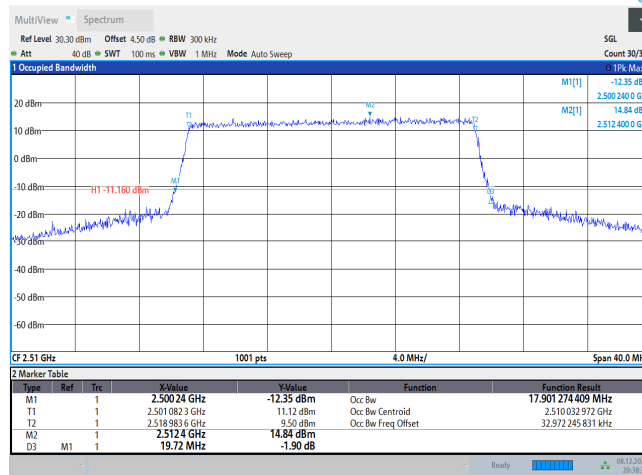
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Band7-20MHz-QPSK-21350-100RB#0



20:40:31 08.12.2022

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



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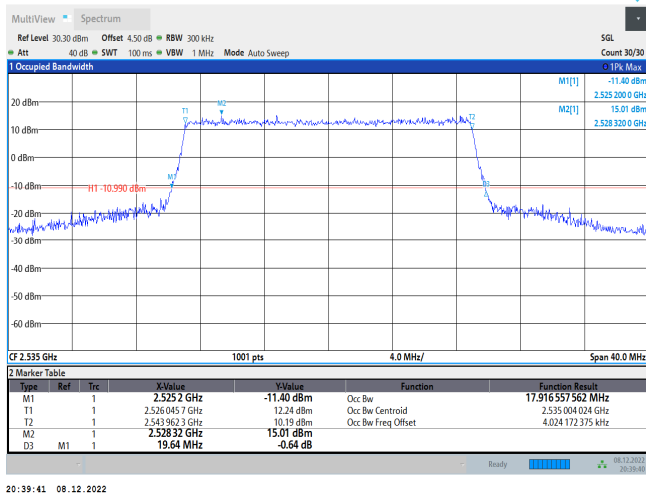


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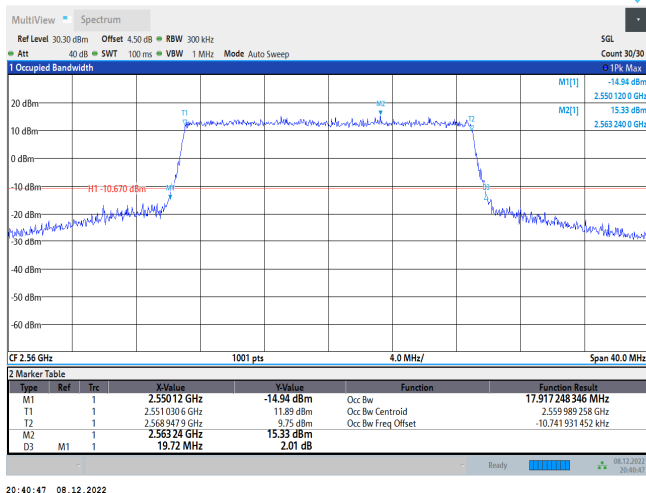
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Band7-20MHz-16QAM-21100-100RB#0



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

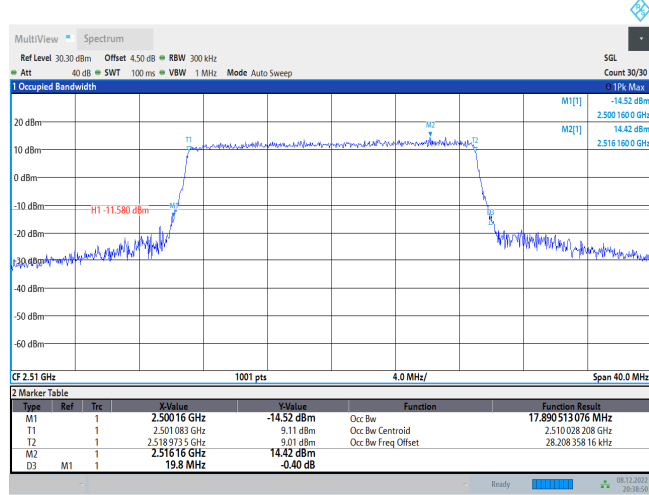


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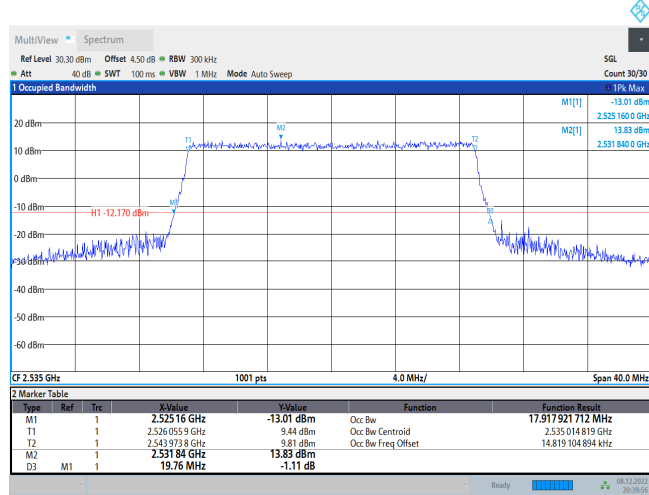
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Band7-20MHz-64QAM-20850-100RB#0



20:38:50 08.12.2022

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



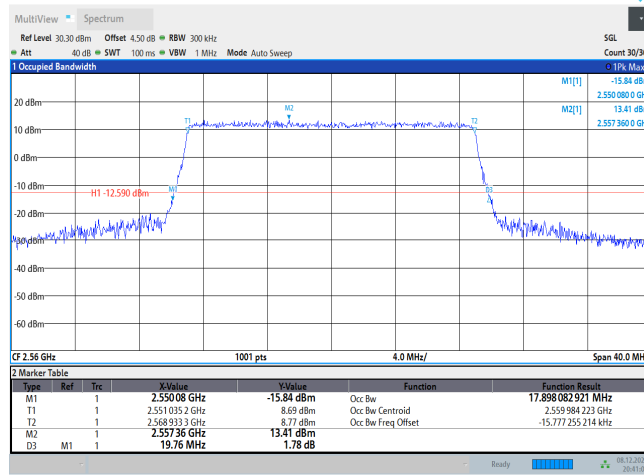
20:39:57 08.12.2022



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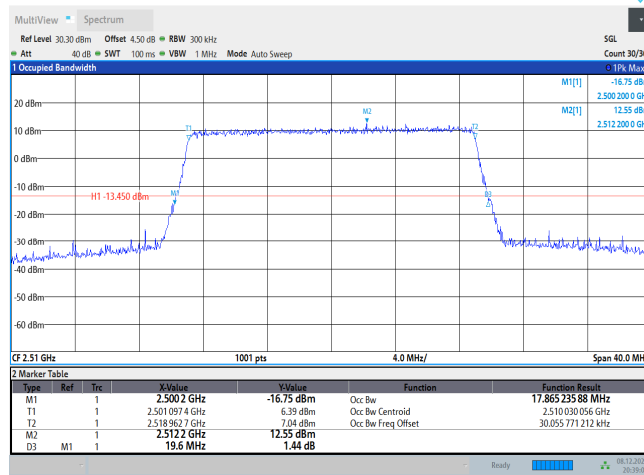
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Band7-20MHz-64QAM-21350-100RB#0



20:41:03 08.12.2022

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



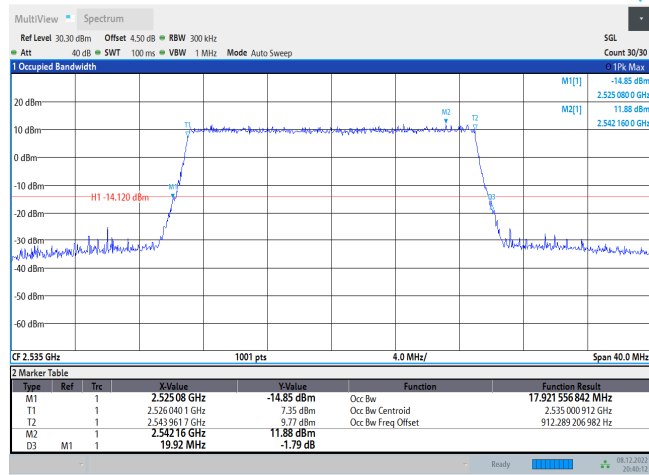
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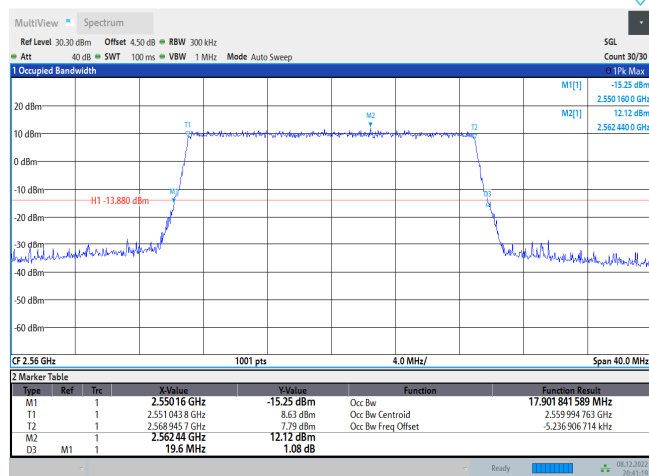
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Band7-20MHz-256QAM-21100-100RB#0



20:40:13 08.12.2022

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



20:41:19 08.12.2022



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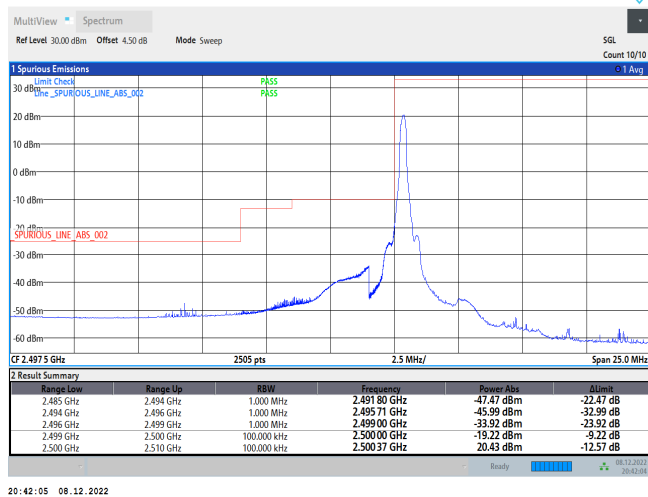
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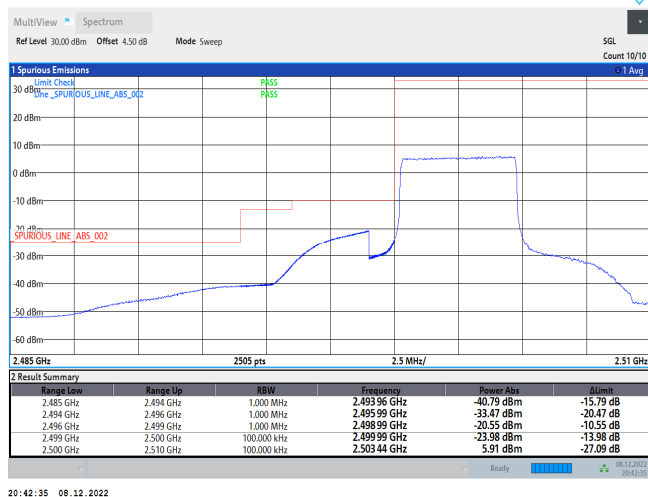
Band Edge

Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



Band7-5MHz-QPSK-20775-25RB#0

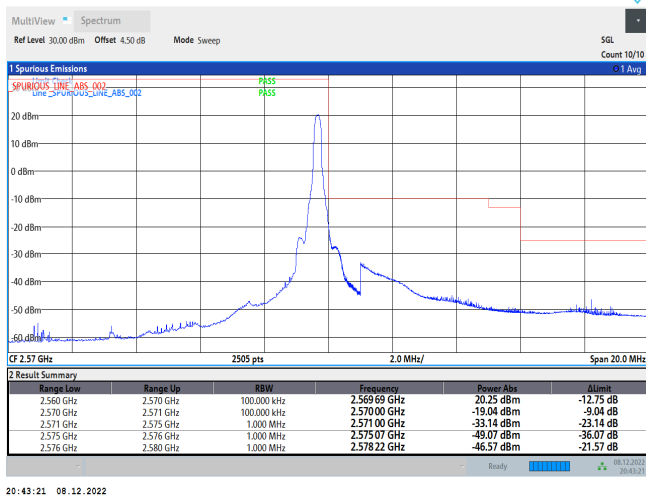


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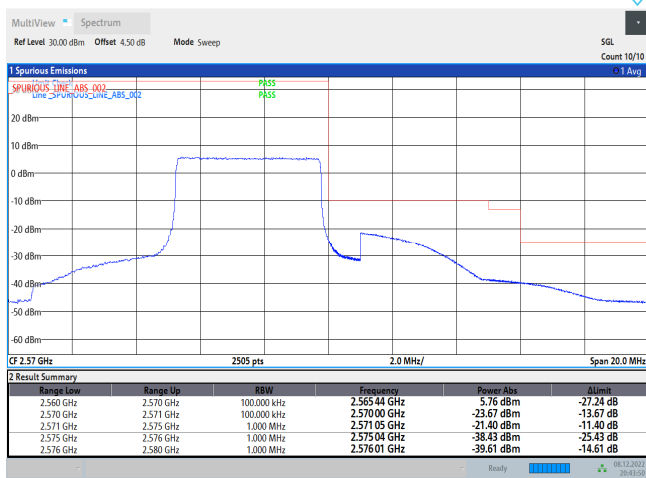
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Band7-5MHz-QPSK-21425-1RB#24



20:43:21 08.12.2022

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

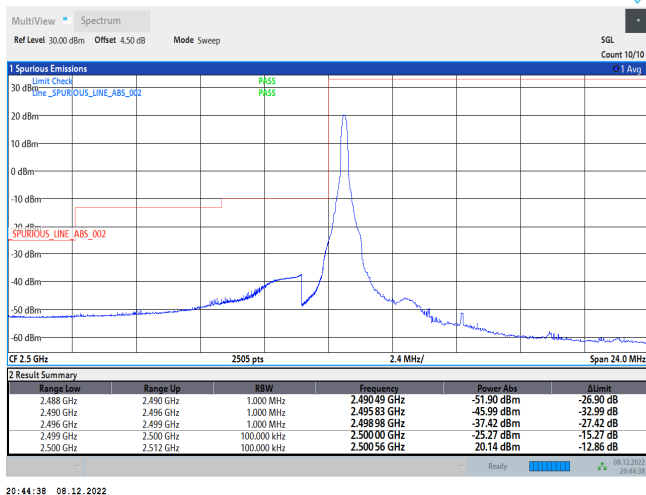


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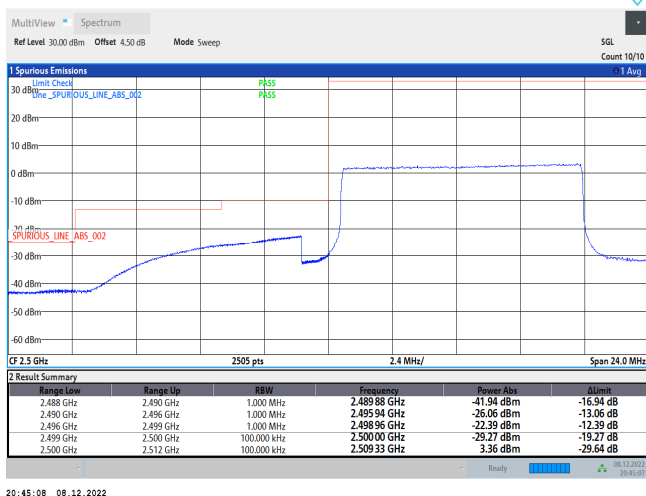
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Band7-10MHz-QPSK-20800-1RB#0



20:44:38 08.12.2022

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

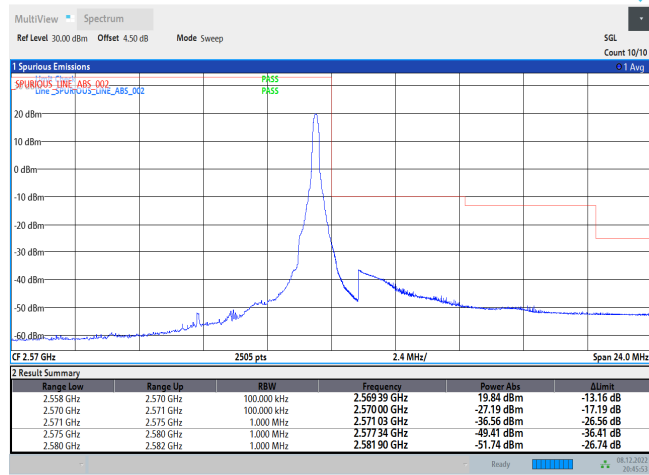


20:45:08 08.12.2022



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



20:45:54 08.12.2022

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



20:46:24 08.12.2022

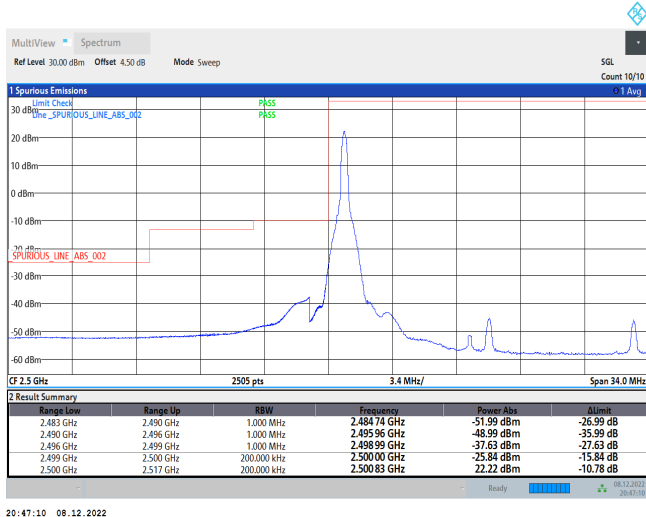


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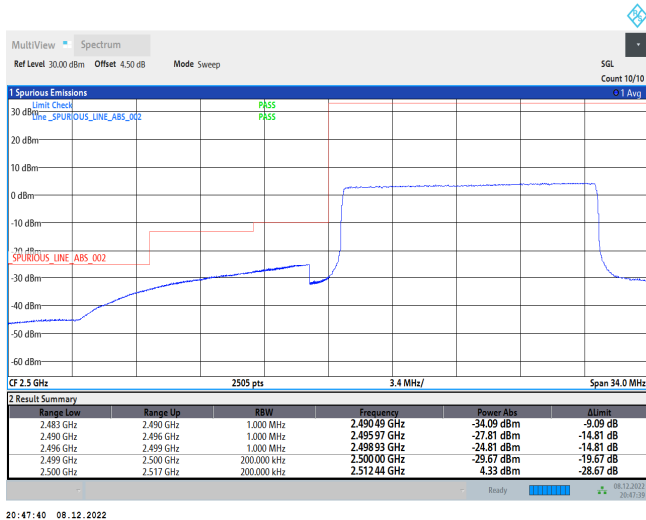
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Band7-15MHz-QPSK-20825-1RB#0



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

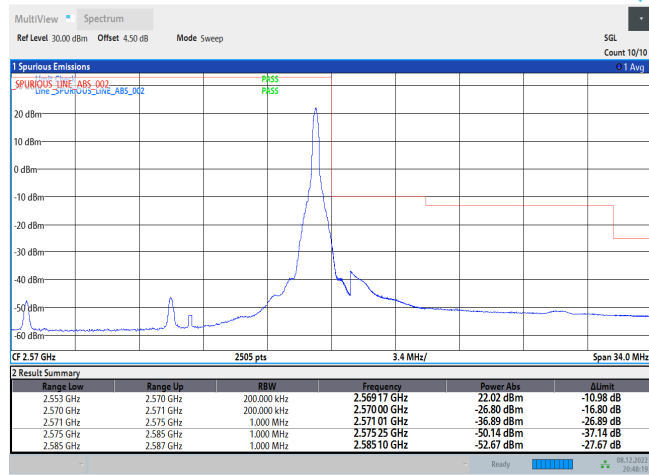


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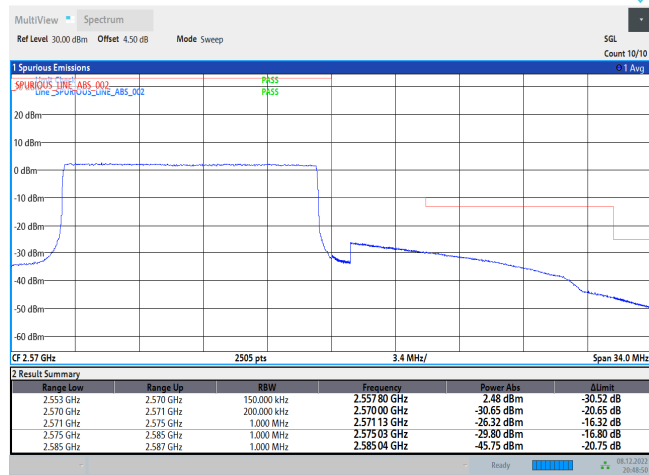
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Band7-15MHz-QPSK-21375-1RB#74



20:48:21 08.12.2022

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



20:48:50 08.12.2022

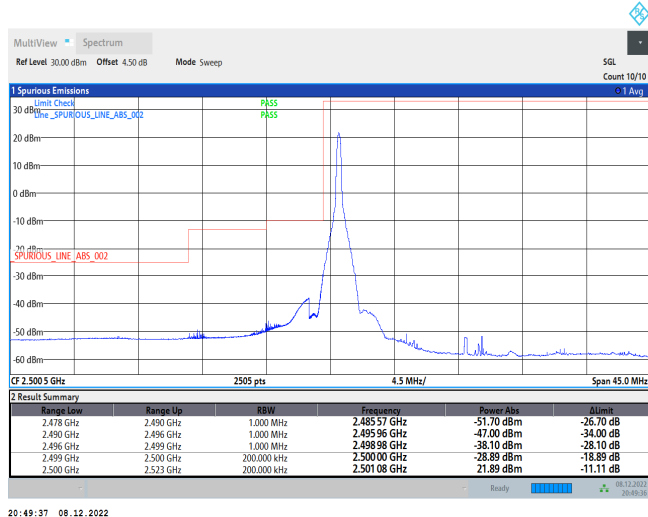


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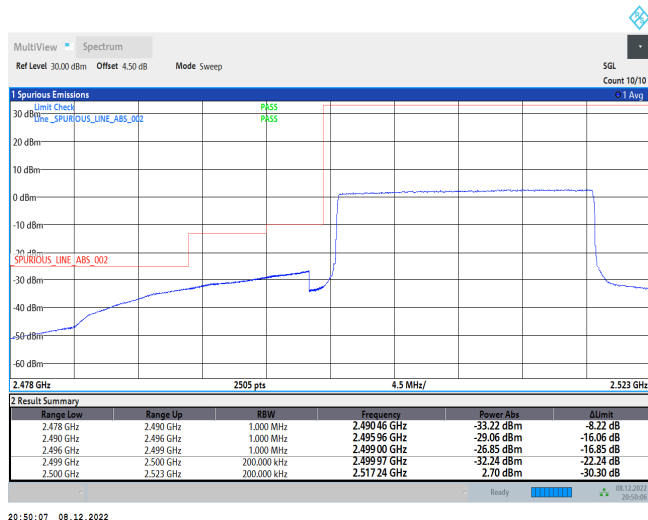
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Band7-20MHz-QPSK-20850-1RB#0



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

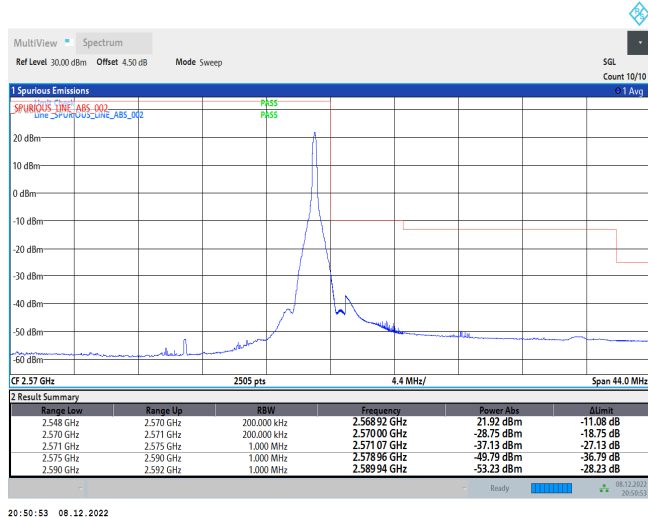


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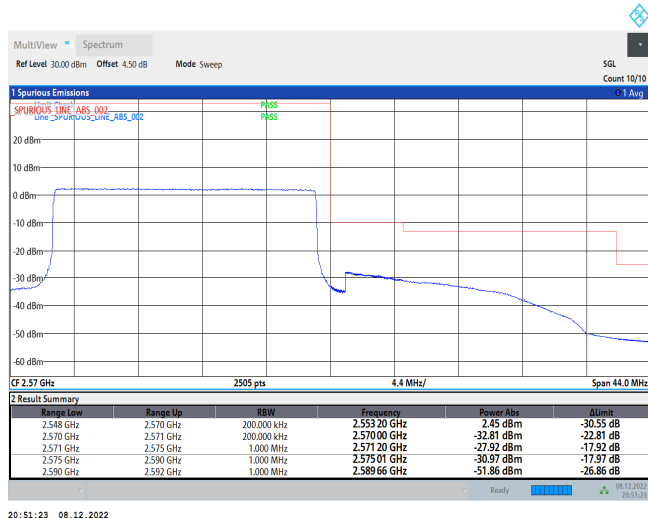
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Band7-20MHz-QPSK-21350-1RB#99



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



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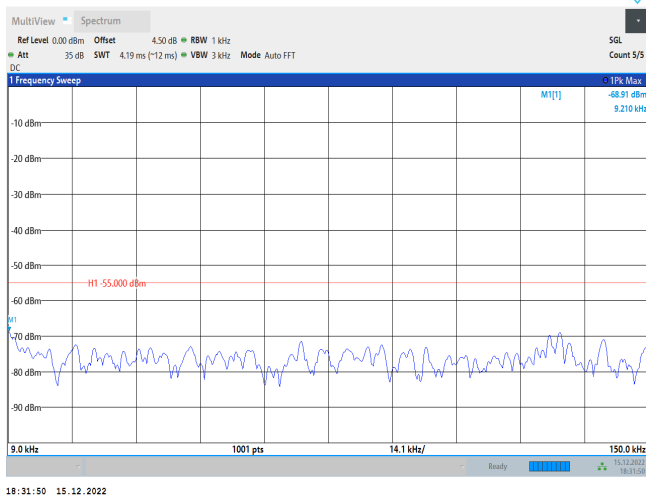
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Conducted Spurious Emission

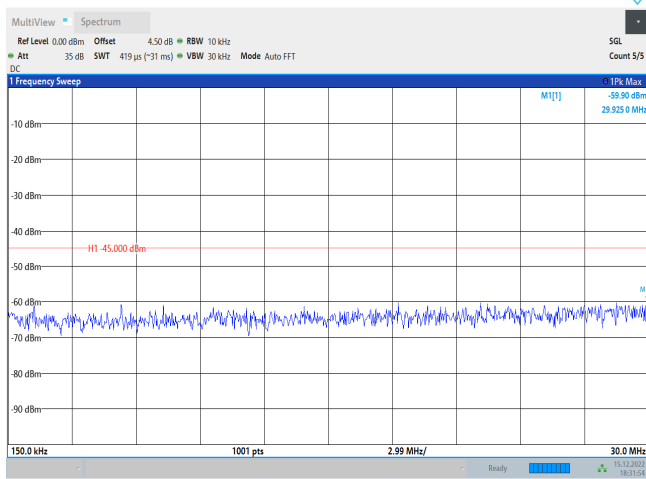
Test Graphs

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



18:31:50 15.12.2022

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



18:31:55 15.12.2022

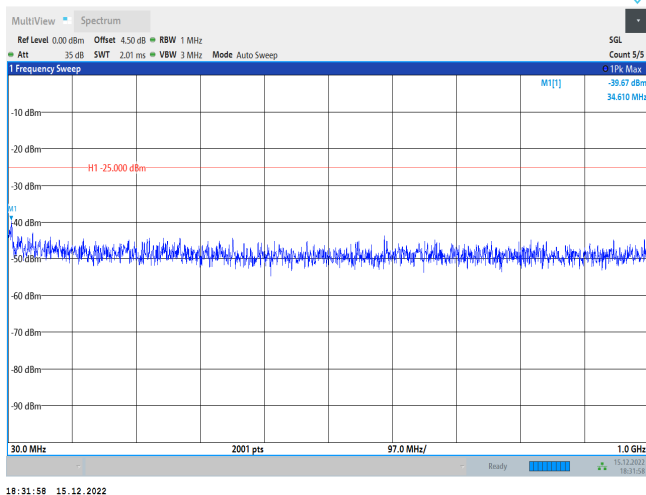


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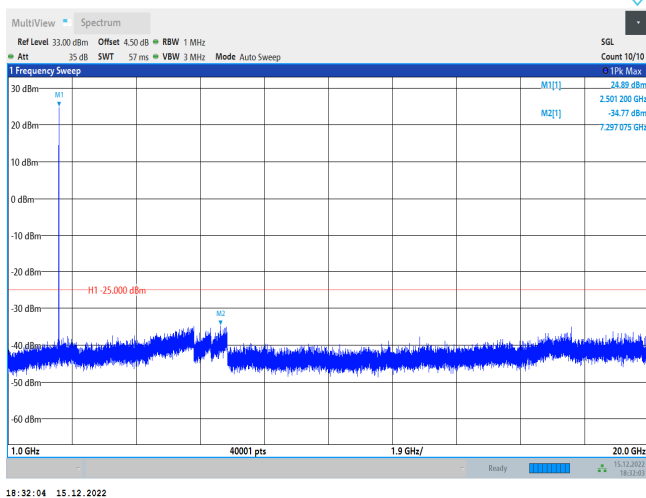
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz

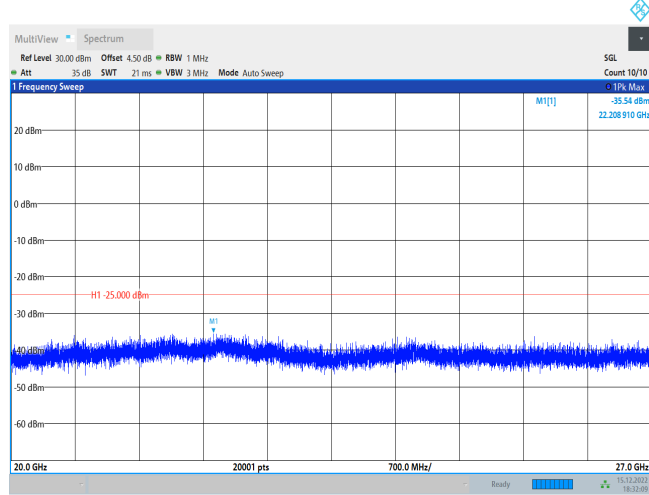


Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



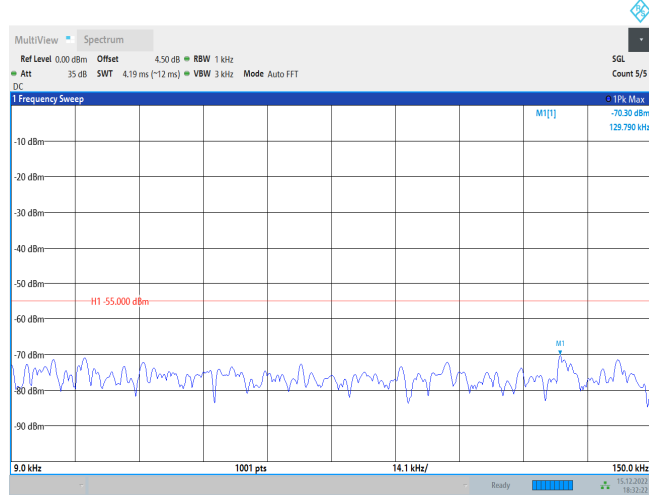
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



18:32:09 15.12.2022

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



18:32:23 15.12.2022

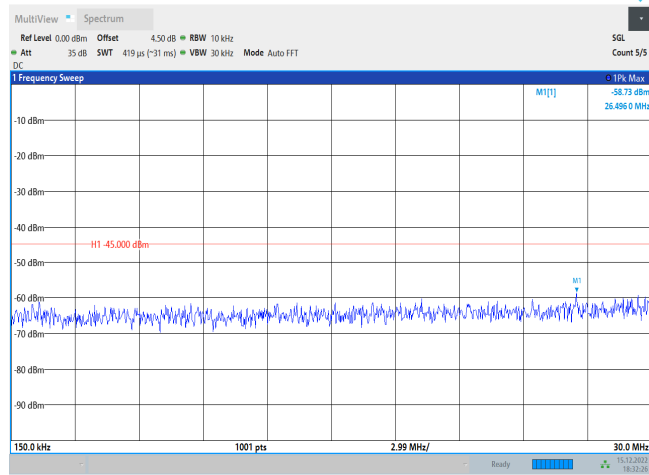


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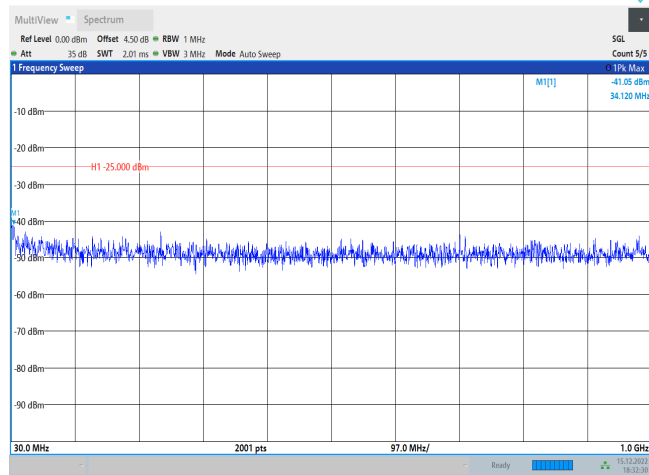
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



18:32:27 15.12.2022

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



18:32:31 15.12.2022



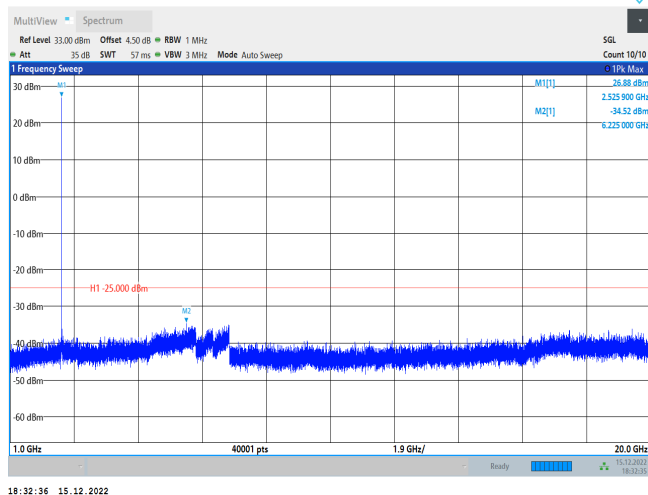
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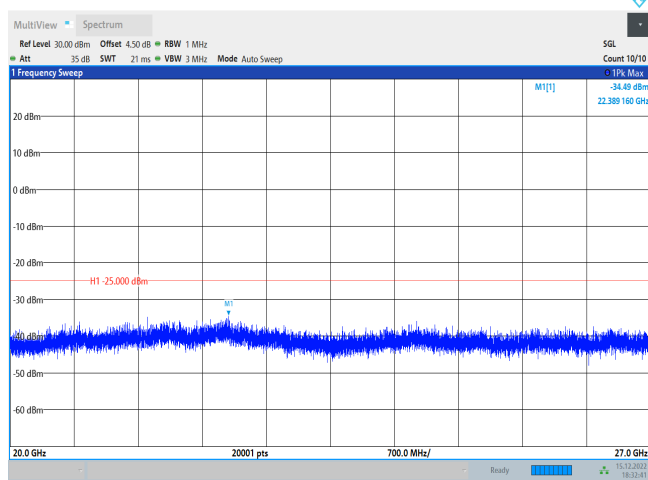
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



18:32:36 15.12.2022

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

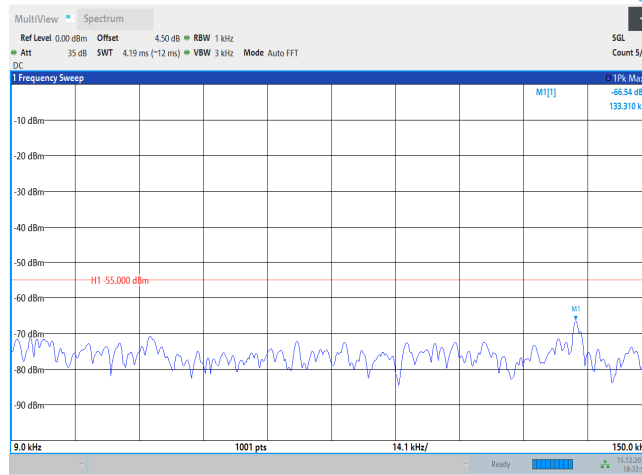


18:32:41 15.12.2022



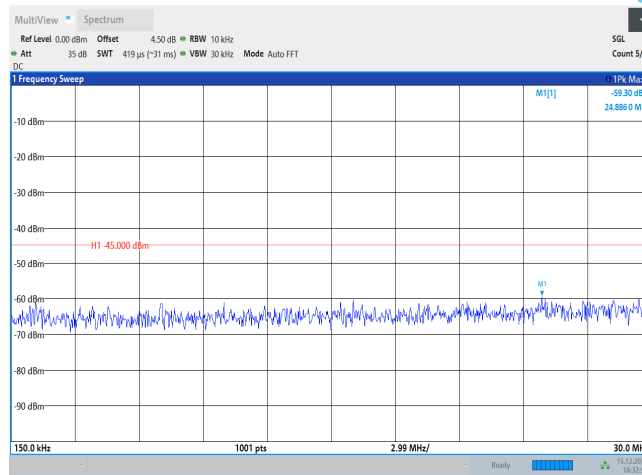
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



18:32:55 15.12.2022

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

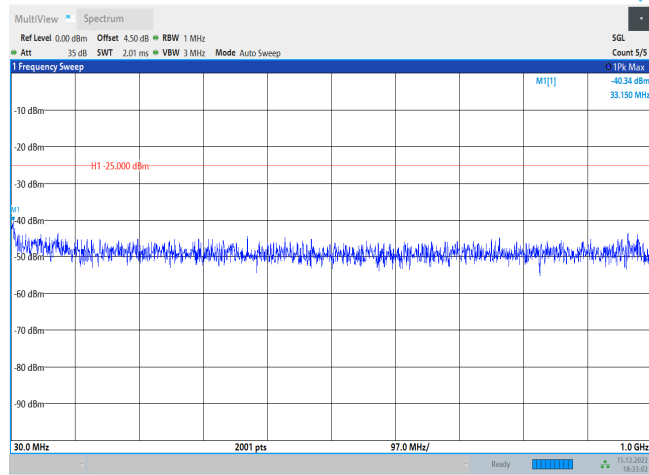


18:32:59 15.12.2022



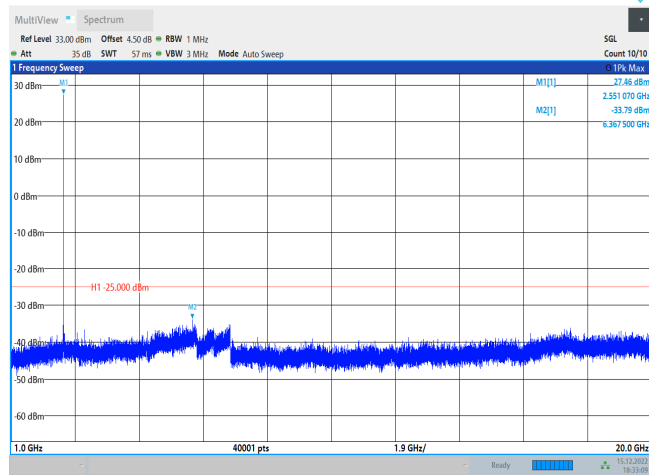
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



18:33:03 15.12.2022

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



18:33:09 15.12.2022

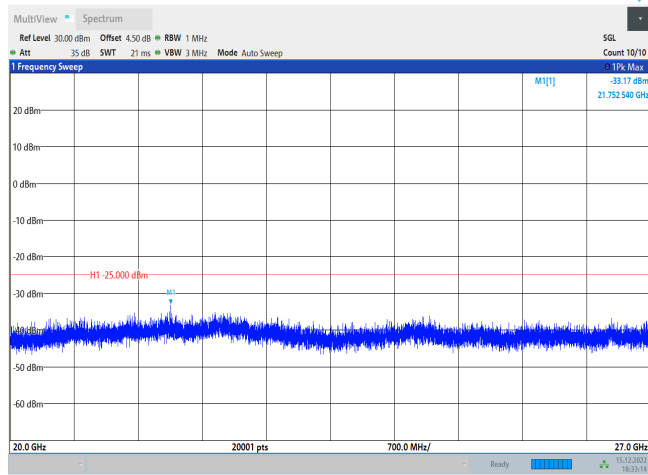


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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



18:33:14 15.12.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 7 ANT 0_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	41.17	-44.92	32.60	-66.41	-25.00	41.41	177	70	Horizontal
2	7503.27	40.09	-41.59	36.51	-60.25	-25.00	35.25	215	153	Horizontal
3	10004.36	33.42	-37.13	38.50	-60.47	-25.00	35.47	235	131	Horizontal
4	12505.45	30.74	-35.23	39.11	-60.64	-25.00	35.64	302	300	Horizontal
5	15006.54	31.60	-34.00	39.19	-58.47	-25.00	33.47	169	111	Horizontal
6	17507.63	29.70	-31.88	40.63	-56.81	-25.00	31.81	255	279	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	7503	44.81	-41.59	36.51	-55.53	-25.00	30.53	215	151	Vertical
2	5002.18	41.02	-44.92	32.60	-66.56	-25.00	41.56	188	12	Vertical
3	10004.36	33.53	-37.13	38.50	-60.36	-25.00	35.36	244	213	Vertical
4	12505.45	30.70	-35.23	39.11	-60.68	-25.00	35.68	286	1	Vertical
5	15006.54	30.86	-34.00	39.19	-59.21	-25.00	34.21	316	298	Vertical
6	17507.63	29.44	-31.88	40.63	-57.07	-25.00	32.07	189	277	Vertical



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Test Band = LTE Band 7 ANT 0_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	42.25	-44.60	32.60	-65.01	-25.00	40.01	185	357	Horizontal
2	7578.27	38.78	-41.33	36.66	-61.16	-25.00	36.16	288	174	Horizontal
3	10104.36	33.52	-36.80	38.61	-59.92	-25.00	34.92	203	340	Horizontal
4	12630.45	30.59	-34.72	39.23	-60.16	-25.00	35.16	165	68	Horizontal
5	15156.54	30.75	-33.29	39.00	-58.80	-25.00	33.80	322	256	Horizontal
6	17682.63	30.29	-31.11	41.33	-54.75	-25.00	29.75	166	89	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	5052.18	42.75	-44.60	32.60	-64.51	-25.00	39.51	166	319	Vertical
2	7578.27	41.64	-41.33	36.66	-58.30	-25.00	33.30	258	130	Vertical
3	10104.36	33.60	-36.80	38.61	-59.84	-25.00	34.84	215	170	Vertical
4	12630.45	30.48	-34.72	39.23	-60.27	-25.00	35.27	332	64	Vertical
5	15156.54	31.02	-33.29	39.00	-58.53	-25.00	33.53	174	64	Vertical
6	17682.63	30.27	-31.11	41.33	-54.77	-25.00	29.77	269	0	Vertical



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Test Band = LTE Band 7 ANT 0_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	42.49	-44.29	32.60	-64.46	-25.00	39.46	165	279	Horizontal
2	7653.27	36.90	-41.30	36.81	-62.85	-25.00	37.85	235	279	Horizontal
3	10204.36	35.18	-36.56	38.72	-57.92	-25.00	32.92	214	112	Horizontal
4	12755.45	32.15	-35.10	39.36	-58.86	-25.00	33.86	195	279	Horizontal
5	15306.54	29.77	-33.87	38.80	-60.56	-25.00	35.56	302	279	Horizontal
6	17857.63	30.49	-30.96	42.03	-53.69	-25.00	28.69	288	0	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	5102.18	41.70	-44.29	32.60	-65.25	-25.00	40.25	188	131	Vertical
2	7653.27	37.69	-41.30	36.81	-62.06	-25.00	37.06	265	212	Vertical
3	10204.36	34.33	-36.56	38.72	-58.77	-25.00	33.77	162	131	Vertical
4	12755.45	32.04	-35.10	39.36	-58.97	-25.00	33.97	288	29	Vertical
5	15306.54	29.69	-33.87	38.80	-60.64	-25.00	35.64	306	276	Vertical
6	17857.63	30.45	-30.96	42.03	-53.73	-25.00	28.73	156	29	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	0.80	0.000316	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	3.30	0.001302	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	1.20	0.000473	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-40	1.50	0.001793	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	2.30	0.000907	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	2.10	0.000828	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	1.40	0.000552	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	1.80	0.000710	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	0.50	0.000197	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	1.10	0.000434	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	1.50	0.000592	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	1.30	0.000513	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	3.60	0.001420	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	60	-0.50	-0.000598	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	70	1.50	0.001793	PASS

---End of Attachment---



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