Appendix B.4

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	23.38	25.38	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.27	25.27	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.26	25.26	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.37	24.37	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.52	25.52	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.51	25.51	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.46	25.46	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.53	24.53	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.42	25.42	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.37	25.37	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.33	25.33	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.43	24.43	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.43	24.43	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.41	24.41	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.46	24.46	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.39	23.39	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.80	24.80	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.70	24.70	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.68	24.68	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.53	23.53	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.44	24.44	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.44	24.44	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.50	24.50	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.43	23.43	33	PASS
Band7	5MHz	64QAM	20775	1RB#0	21.58	23.58	33	PASS
Band7	5MHz	64QAM	20775	1RB#12	21.46	23.46	33	PASS
Band7	5MHz	64QAM	20775	1RB#24	21.57	23.57	33	PASS

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Band7	5MHz	64QAM	20775	25RB#0	20.39	22.39	33	PASS
Band7	5MHz	64QAM	21100	1RB#0	21.61	23.61	33	PASS
Band7	5MHz	64QAM	21100	1RB#12	21.72	23.72	33	PASS
Band7	5MHz	64QAM	21100	1RB#24	21.67	23.67	33	PASS
Band7	5MHz	64QAM	21100	25RB#0	20.54	22.54	33	PASS
Band7	5MHz	64QAM	21425	1RB#0	21.52	23.52	33	PASS
Band7	5MHz	64QAM	21425	1RB#12	21.52	23.52	33	PASS
Band7	5MHz	64QAM	21425	1RB#24	21.57	23.57	33	PASS
Band7	5MHz	64QAM	21425	25RB#0	20.37	22.37	33	PASS
Band7	5MHz	256QAM	20775	1RB#0	18.38	20.38	33	PASS
Band7	5MHz	256QAM	20775	1RB#12	18.58	20.58	33	PASS
Band7	5MHz	256QAM	20775	1RB#24	18.41	20.41	33	PASS
Band7	5MHz	256QAM	20775	25RB#0	18.41	20.41	33	PASS
Band7	5MHz	256QAM	21100	1RB#0	18.58	20.58	33	PASS
Band7	5MHz	256QAM	21100	1RB#12	18.73	20.73	33	PASS
Band7	5MHz	256QAM	21100	1RB#24	18.60	20.60	33	PASS
Band7	5MHz	256QAM	21100	25RB#0	18.60	20.60	33	PASS
Band7	5MHz	256QAM	21425	1RB#0	18.39	20.39	33	PASS
Band7	5MHz	256QAM	21425	1RB#12	18.60	20.60	33	PASS
Band7	5MHz	256QAM	21425	1RB#24	18.28	20.28	33	PASS
Band7	5MHz	256QAM	21425	25RB#0	18.43	20.43	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.37	25.37	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.40	25.40	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.36	25.36	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.44	24.44	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.48	25.48	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.45	25.45	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.44	25.44	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.53	24.53	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.38	25.38	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.38	25.38	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.34	25.34	33	PASS

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Band7	10MHz	16QAM	20800	1RB#0	22.33	24.33	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.55	24.55	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.38	24.38	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.40	23.40	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.49	24.49	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.64	24.64	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.65	24.65	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.52	23.52	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.58	24.58	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.55	24.55	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.43	24.43	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.46	23.46	33	PASS
Band7	10MHz	64QAM	20800	1RB#0	21.56	23.56	33	PASS
Band7	10MHz	64QAM	20800	1RB#24	21.62	23.62	33	PASS
Band7	10MHz	64QAM	20800	1RB#49	21.69	23.69	33	PASS
Band7	10MHz	64QAM	20800	50RB#0	20.39	22.39	33	PASS
Band7	10MHz	64QAM	21100	1RB#0	21.61	23.61	33	PASS
Band7	10MHz	64QAM	21100	1RB#24	21.68	23.68	33	PASS
Band7	10MHz	64QAM	21100	1RB#49	21.52	23.52	33	PASS
Band7	10MHz	64QAM	21100	50RB#0	20.53	22.53	33	PASS
Band7	10MHz	64QAM	21400	1RB#0	21.56	23.56	33	PASS
Band7	10MHz	64QAM	21400	1RB#24	21.53	23.53	33	PASS
Band7	10MHz	64QAM	21400	1RB#49	21.52	23.52	33	PASS
Band7	10MHz	64QAM	21400	50RB#0	20.44	22.44	33	PASS
Band7	10MHz	256QAM	20800	1RB#0	18.46	20.46	33	PASS
Band7	10MHz	256QAM	20800	1RB#24	18.60	20.60	33	PASS
Band7	10MHz	256QAM	20800	1RB#49	18.47	20.47	33	PASS
Band7	10MHz	256QAM	20800	50RB#0	18.47	20.47	33	PASS
Band7	10MHz	256QAM	21100	1RB#0	18.57	20.57	33	PASS
Band7	10MHz	256QAM	21100	1RB#24	18.70	20.70	33	PASS
Band7	10MHz	256QAM	21100	1RB#49	18.47	20.47	33	PASS

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Band7	10MHz	256QAM	21100	50RB#0	18.58	20.58	33	PASS
Band7	10MHz	256QAM	21400	1RB#0	18.62	20.62	33	PASS
Band7	10MHz	256QAM	21400	1RB#24	18.35	20.35	33	PASS
Band7	10MHz	256QAM	21400	1RB#49	18.45	20.45	33	PASS
Band7	10MHz	256QAM	21400	50RB#0	18.45	20.45	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.10	25.10	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.17	25.17	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.41	25.41	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.32	24.32	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.29	25.29	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.32	25.32	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.24	25.24	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.39	24.39	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.22	25.22	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.17	25.17	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.20	25.20	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.30	24.30	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.32	24.32	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.32	24.32	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.47	24.47	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.31	23.31	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.37	24.37	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.50	24.50	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.40	24.40	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.37	23.37	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.18	24.18	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.31	24.31	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.26	24.26	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.35	23.35	33	PASS
Band7	15MHz	64QAM	20825	1RB#0	21.15	23.15	33	PASS
Band7	15MHz	64QAM	20825	1RB#38	21.32	23.32	33	PASS
Band7	15MHz	64QAM	20825	1RB#74	21.25	23.25	33	PASS

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Band7	15MHz	64QAM	20825	75RB#0	20.32	22.32	33	PASS
Band7	15MHz	64QAM	21100	1RB#0	21.49	23.49	33	PASS
Band7	15MHz	64QAM	21100	1RB#38	21.57	23.57	33	PASS
Band7	15MHz	64QAM	21100	1RB#74	21.21	23.21	33	PASS
Band7	15MHz	64QAM	21100	75RB#0	20.47	22.47	33	PASS
Band7	15MHz	64QAM	21375	1RB#0	21.36	23.36	33	PASS
Band7	15MHz	64QAM	21375	1RB#38	21.37	23.37	33	PASS
Band7	15MHz	64QAM	21375	1RB#74	21.20	23.20	33	PASS
Band7	15MHz	64QAM	21375	75RB#0	20.36	22.36	33	PASS
Band7	15MHz	256QAM	20825	1RB#0	18.34	20.34	33	PASS
Band7	15MHz	256QAM	20825	1RB#38	18.45	20.45	33	PASS
Band7	15MHz	256QAM	20825	1RB#74	18.25	20.25	33	PASS
Band7	15MHz	256QAM	20825	75RB#0	18.24	20.24	33	PASS
Band7	15MHz	256QAM	21100	1RB#0	18.43	20.43	33	PASS
Band7	15MHz	256QAM	21100	1RB#38	18.32	20.32	33	PASS
Band7	15MHz	256QAM	21100	1RB#74	18.38	20.38	33	PASS
Band7	15MHz	256QAM	21100	75RB#0	18.43	20.43	33	PASS
Band7	15MHz	256QAM	21375	1RB#0	18.32	20.32	33	PASS
Band7	15MHz	256QAM	21375	1RB#38	18.36	20.36	33	PASS
Band7	15MHz	256QAM	21375	1RB#74	18.39	20.39	33	PASS
Band7	15MHz	256QAM	21375	75RB#0	18.37	20.37	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.14	25.14	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.23	25.23	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.24	25.24	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.32	24.32	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.39	25.39	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.39	25.39	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	23.16	25.16	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.41	24.41	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	23.33	25.33	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.47	25.47	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.16	25.16	33	PASS

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Band7	20MHz	QPSK	21350	100RB#0	22.38	24.38	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.24	24.24	33	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.82	24.82	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.31	24.31	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.36	23.36	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.52	24.52	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.55	24.55	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.53	24.53	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.46	23.46	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.40	24.40	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.45	24.45	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.30	24.30	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.40	23.40	33	PASS
Band7	20MHz	64QAM	20850	1RB#0	21.31	23.31	33	PASS
Band7	20MHz	64QAM	20850	1RB#49	21.55	23.55	33	PASS
Band7	20MHz	64QAM	20850	1RB#99	21.35	23.35	33	PASS
Band7	20MHz	64QAM	20850	100RB#0	20.39	22.39	33	PASS
Band7	20MHz	64QAM	21100	1RB#0	21.72	23.72	33	PASS
Band7	20MHz	64QAM	21100	1RB#49	21.41	23.41	33	PASS
Band7	20MHz	64QAM	21100	1RB#99	21.45	23.45	33	PASS
Band7	20MHz	64QAM	21100	100RB#0	20.41	22.41	33	PASS
Band7	20MHz	64QAM	21350	1RB#0	21.59	23.59	33	PASS
Band7	20MHz	64QAM	21350	1RB#49	21.58	23.58	33	PASS
Band7	20MHz	64QAM	21350	1RB#99	21.30	23.30	33	PASS
Band7	20MHz	64QAM	21350	100RB#0	20.33	22.33	33	PASS
Band7	20MHz	256QAM	20850	1RB#0	18.35	20.35	33	PASS
Band7	20MHz	256QAM	20850	1RB#49	18.44	20.44	33	PASS
Band7	20MHz	256QAM	20850	1RB#99	18.35	20.35	33	PASS
Band7	20MHz	256QAM	20850	100RB#0	18.33	20.33	33	PASS
Band7	20MHz	256QAM	21100	1RB#0	18.62	20.62	33	PASS
Band7	20MHz	256QAM	21100	1RB#49	18.63	20.63	33	PASS
Band7	20MHz	256QAM	21100	1RB#99	18.57	20.57	33	PASS

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Band7	20MHz	256QAM	21100	100RB#0	18.44	20.44	33	PASS
Band7	20MHz	256QAM	21350	1RB#0	18.30	20.30	33	PASS
Band7	20MHz	256QAM	21350	1RB#49	18.22	20.22	33	PASS
Band7	20MHz	256QAM	21350	1RB#99	18.39	20.39	33	PASS
Band7	20MHz	256QAM	21350	100RB#0	18.41	20.41	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	5.50	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.58	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.46	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.32	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.38	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.34	13	PASS
Band7	20MHz	64QAM	20850	100RB#0	6.72	13	PASS
Band7	20MHz	64QAM	21100	100RB#0	6.70	13	PASS
Band7	20MHz	64QAM	21350	100RB#0	6.80	13	PASS
Band7	20MHz	256QAM	20850	100RB#0	6.94	13	PASS
Band7	20MHz	256QAM	21100	100RB#0	6.92	13	PASS
Band7	20MHz	256QAM	21350	100RB#0	6.86	13	PASS

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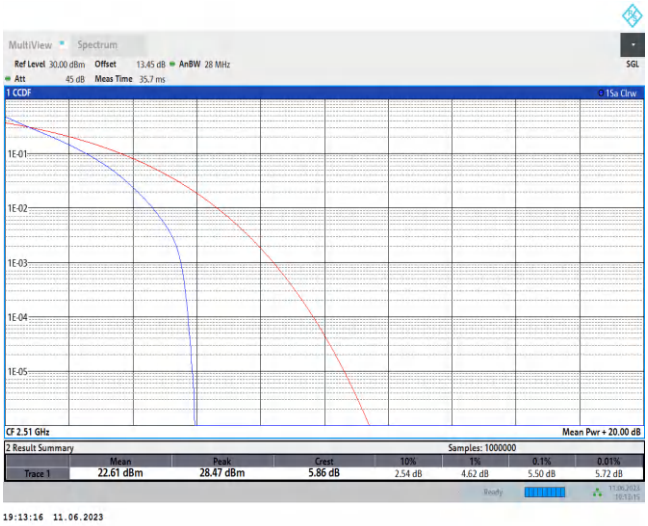
Test Graphs

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



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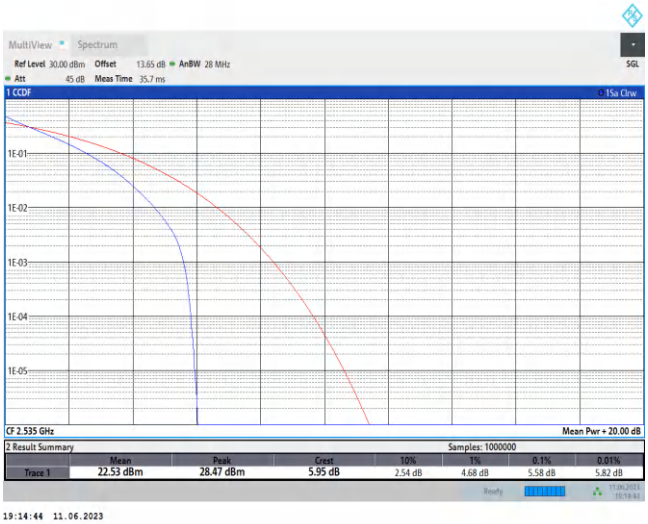

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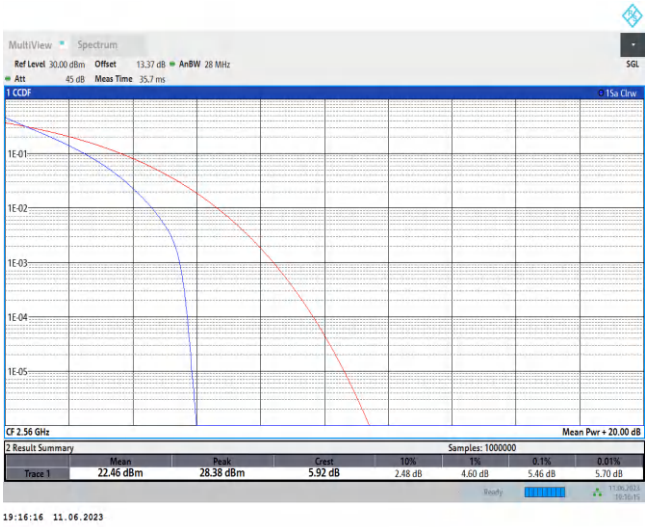
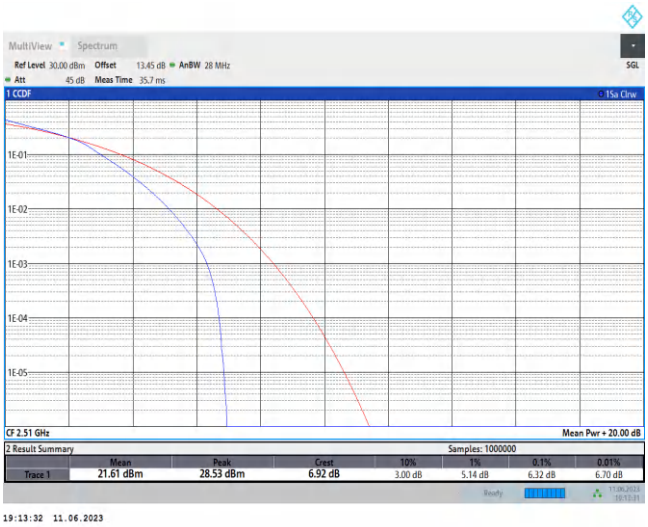
Band7-20MHz-QPSK-21350-100RB#0



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



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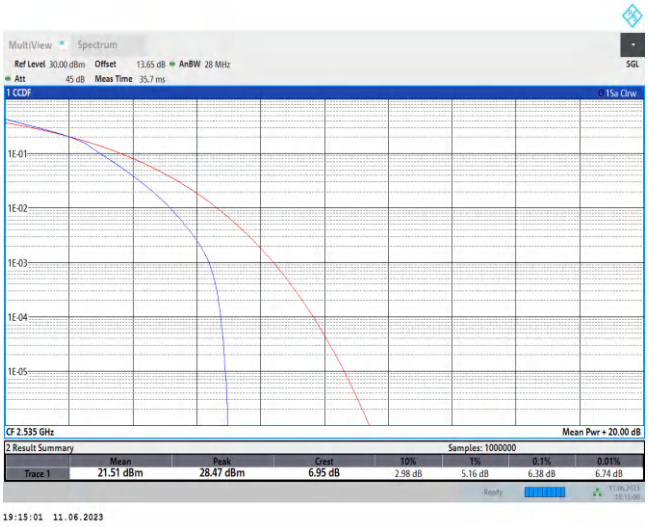
Band7-20MHz-16QAM-21100-100RB#0



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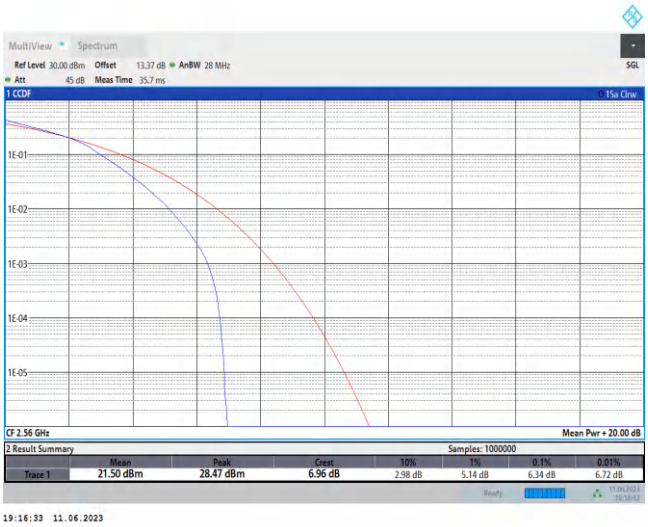

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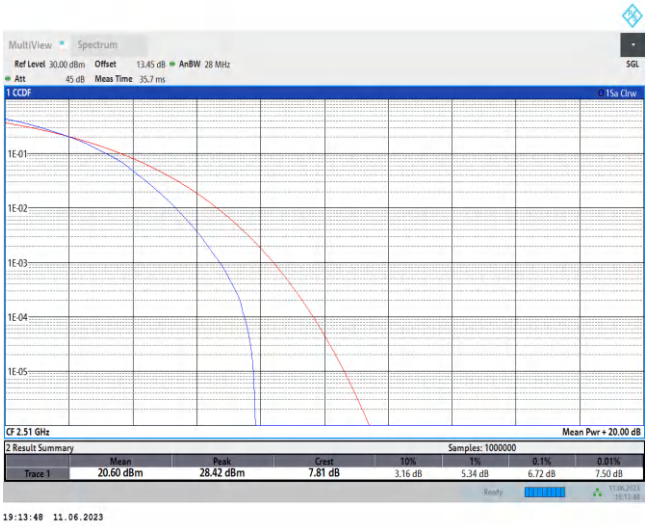
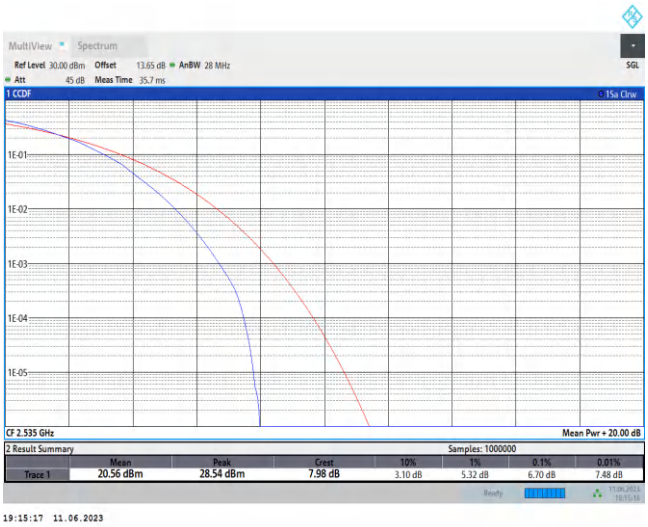
Band7-20MHz-64QAM-20850-100RB#0



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



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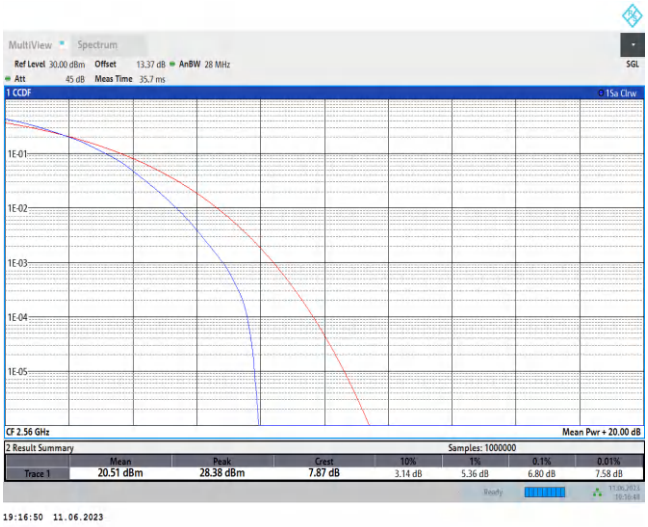
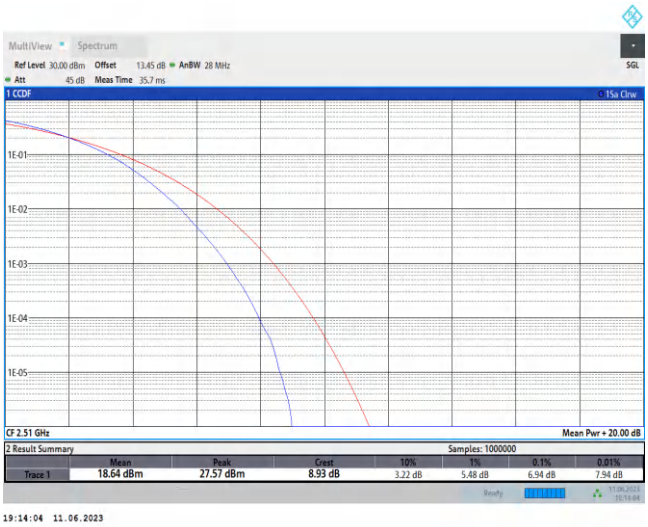
Band7-20MHz-64QAM-21350-100RB#0



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



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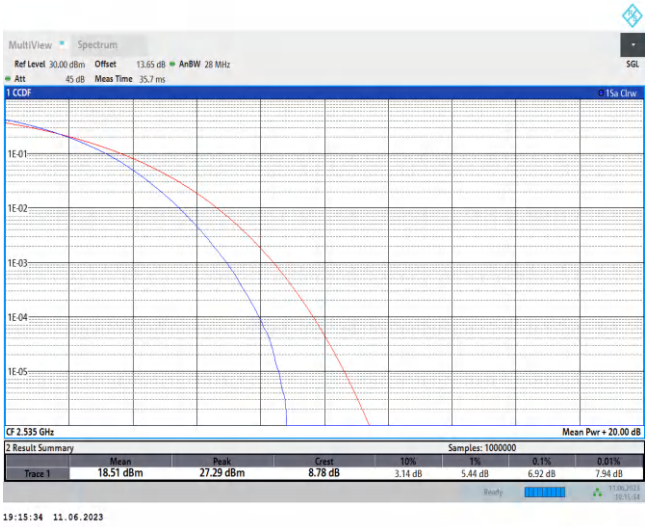
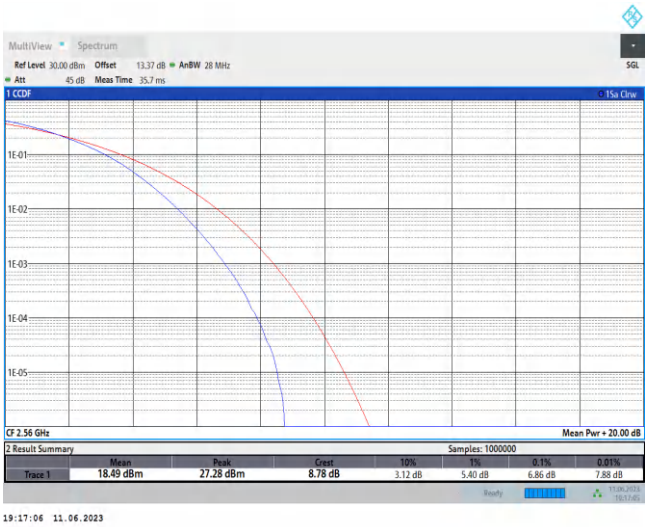


Band7-20MHz-256QAM-21350-100RB#0



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

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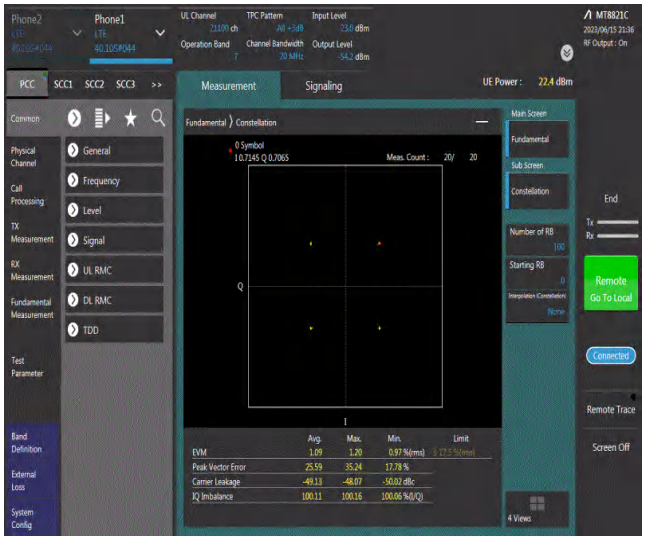
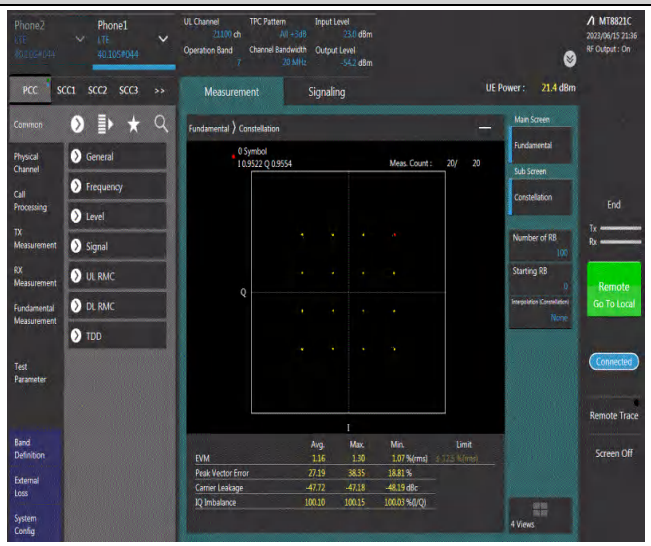
Test Graphs

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


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


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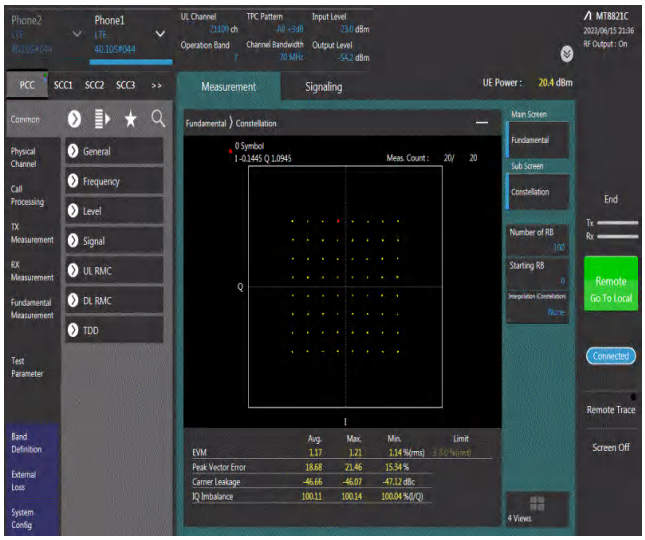
Band7-20MHz-64QAM-21100-100RB#0



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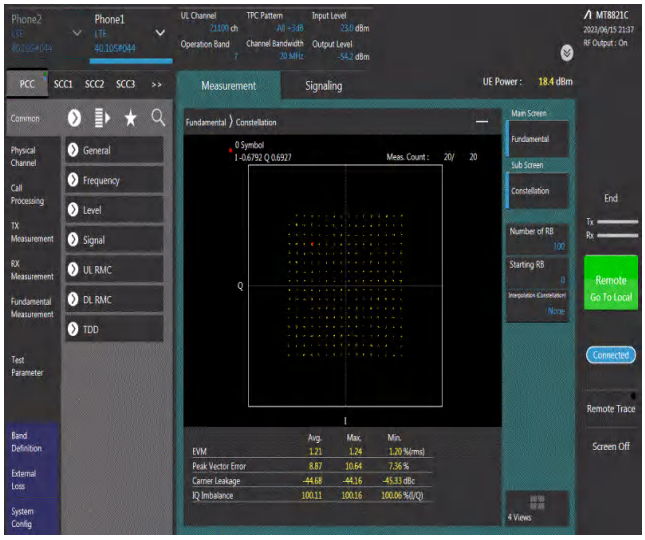

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.482	5.06	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.474	5.08	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	5.08	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.481	5.07	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.477	5.08	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.478	5.05	PASS
Band7	5MHz	64QAM	20775	25RB#0	4.478	5.05	PASS
Band7	5MHz	64QAM	21100	25RB#0	4.478	5.07	PASS
Band7	5MHz	64QAM	21425	25RB#0	4.481	5.11	PASS
Band7	5MHz	256QAM	20775	25RB#0	4.482	5.02	PASS
Band7	5MHz	256QAM	21100	25RB#0	4.481	5.08	PASS
Band7	5MHz	256QAM	21425	25RB#0	4.479	5.06	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.947	9.92	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.954	9.92	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.948	9.78	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.955	9.94	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.953	9.86	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.953	9.90	PASS
Band7	10MHz	64QAM	20800	50RB#0	8.943	9.80	PASS
Band7	10MHz	64QAM	21100	50RB#0	8.959	9.80	PASS
Band7	10MHz	64QAM	21400	50RB#0	8.938	9.80	PASS
Band7	10MHz	256QAM	20800	50RB#0	8.947	9.86	PASS
Band7	10MHz	256QAM	21100	50RB#0	8.958	9.88	PASS
Band7	10MHz	256QAM	21400	50RB#0	8.935	9.80	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.486	15.09	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.488	15.09	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.469	15.15	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.482	15.03	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.482	15.00	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.51	15.00	PASS
Band7	15MHz	64QAM	20825	75RB#0	13.457	15.15	PASS

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Band7	15MHz	64QAM	21100	75RB#0	13.496	15.03	PASS
Band7	15MHz	64QAM	21375	75RB#0	13.49	15.03	PASS
Band7	15MHz	256QAM	20825	75RB#0	13.476	14.94	PASS
Band7	15MHz	256QAM	21100	75RB#0	13.492	15.03	PASS
Band7	15MHz	256QAM	21375	75RB#0	13.47	15.09	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.892	19.80	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.932	19.80	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.913	19.68	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.906	19.72	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.939	19.72	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.881	19.80	PASS
Band7	20MHz	64QAM	20850	100RB#0	17.903	19.68	PASS
Band7	20MHz	64QAM	21100	100RB#0	17.935	19.84	PASS
Band7	20MHz	64QAM	21350	100RB#0	17.915	19.80	PASS
Band7	20MHz	256QAM	20850	100RB#0	17.918	19.60	PASS
Band7	20MHz	256QAM	21100	100RB#0	17.926	19.64	PASS
Band7	20MHz	256QAM	21350	100RB#0	17.898	19.64	PASS

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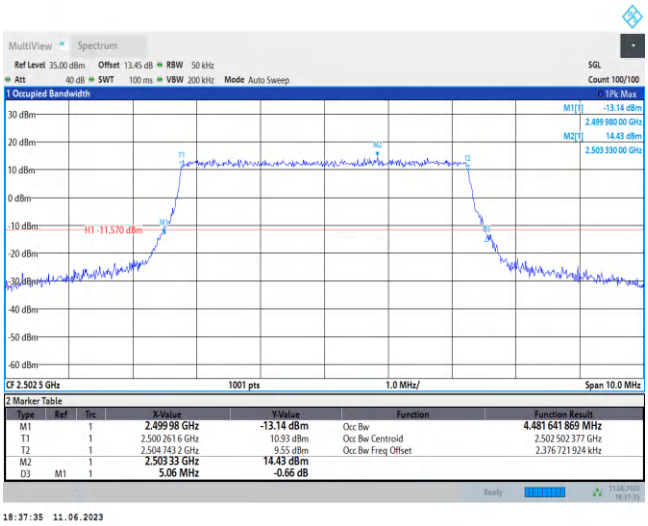
Test Graphs

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



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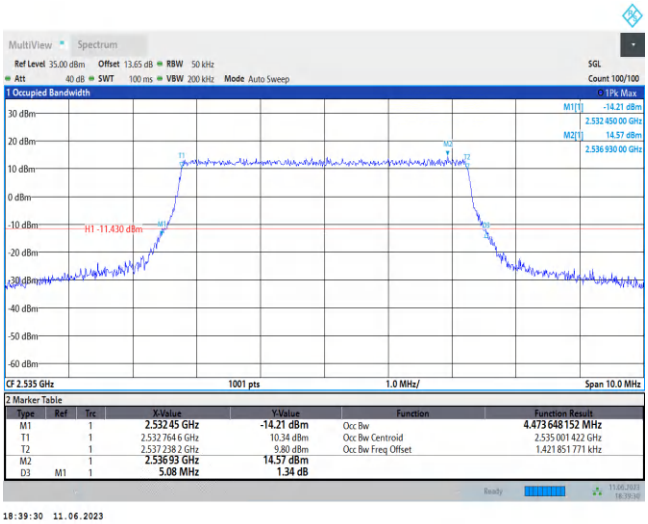

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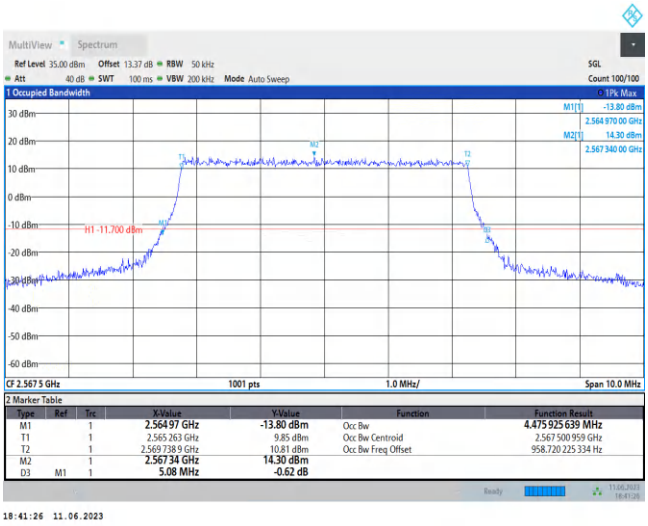
Band7-5MHz-QPSK-21425-25RB#0



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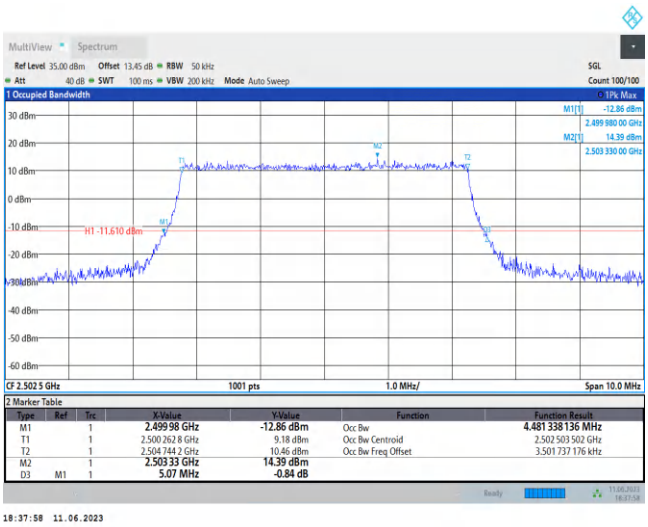

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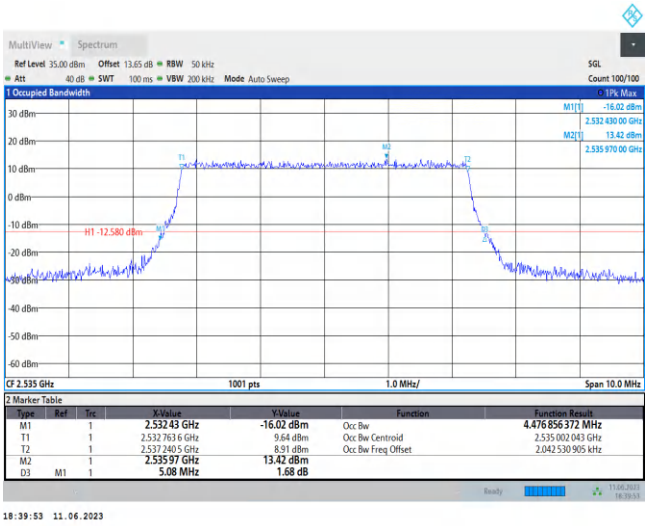

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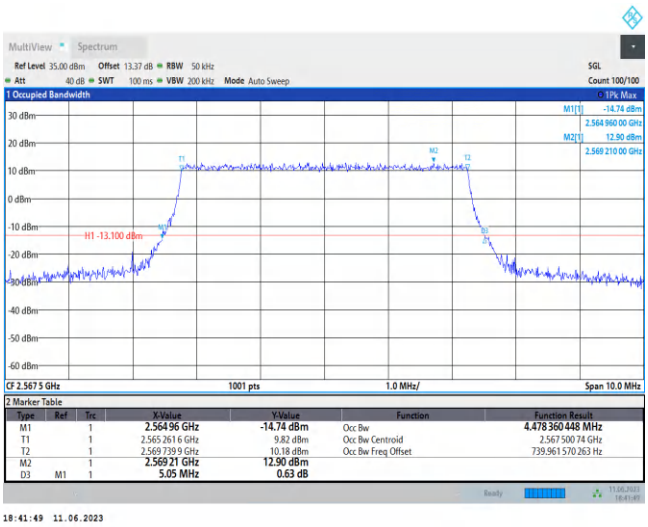

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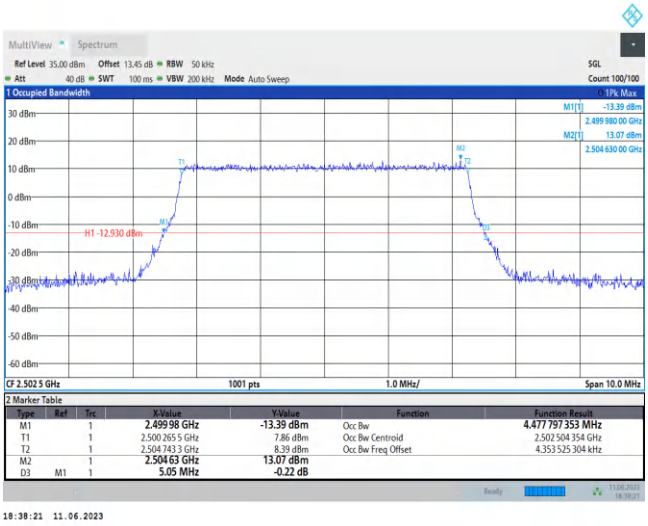
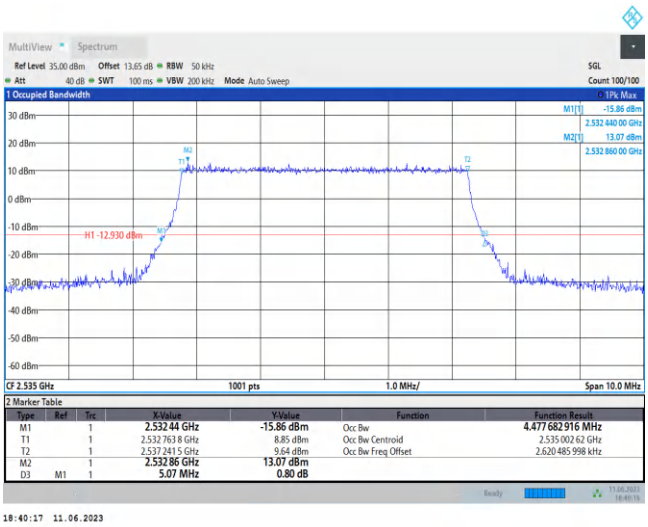


Band7-5MHz-64QAM-21100-25RB#0



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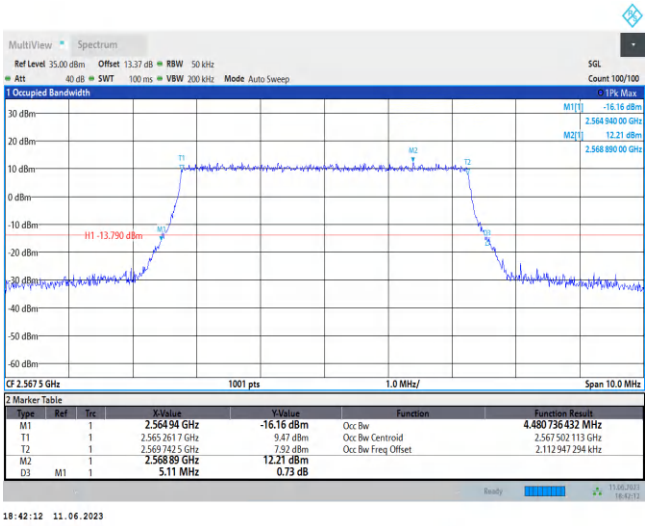
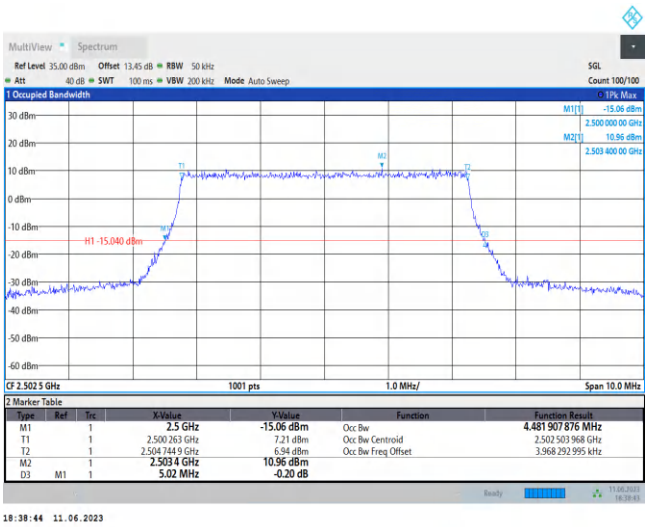
Band7-5MHz-64QAM-21425-25RB#0



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



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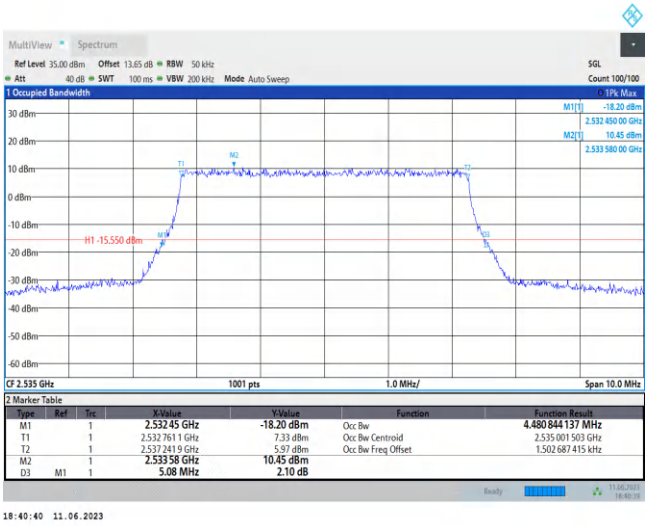
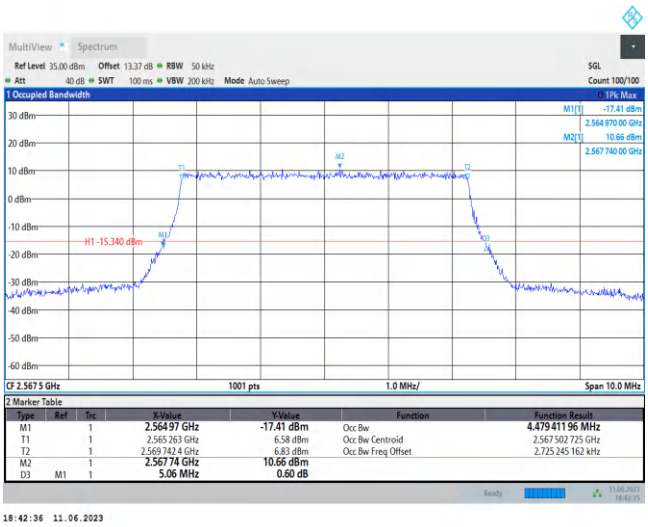


Band7-5MHz-256QAM-21425-25RB#0



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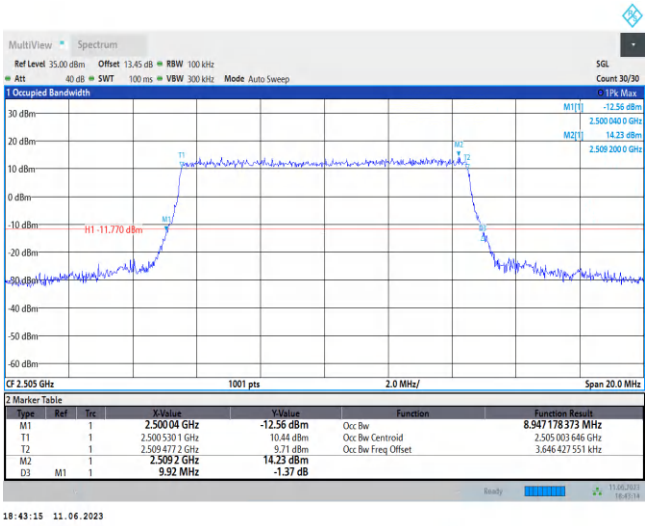
Band7-10MHz-QPSK-20800-50RB#0



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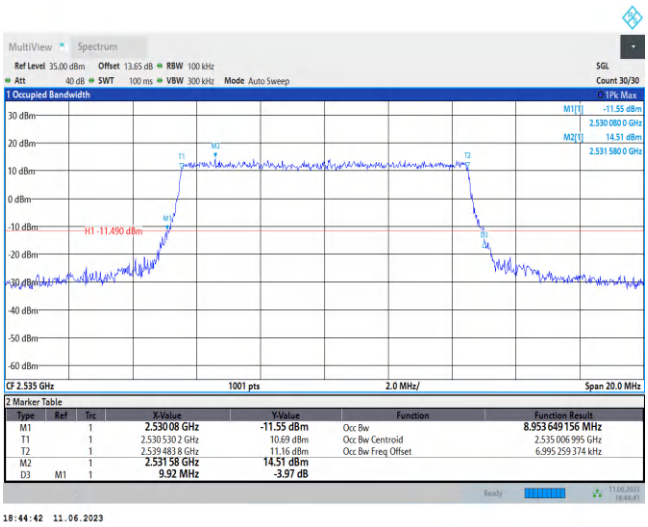

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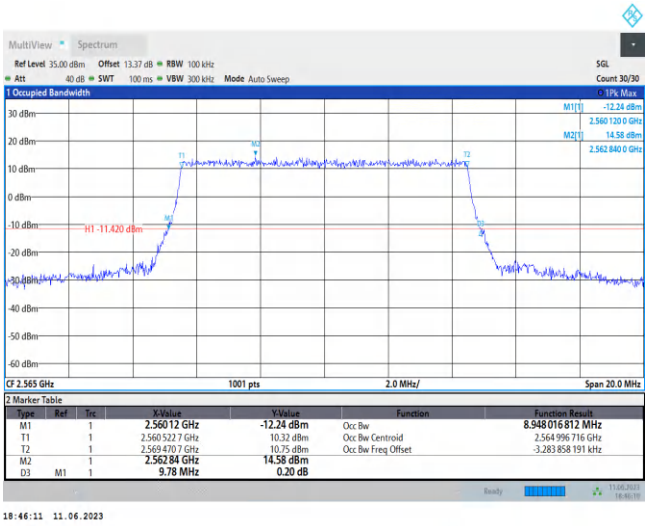
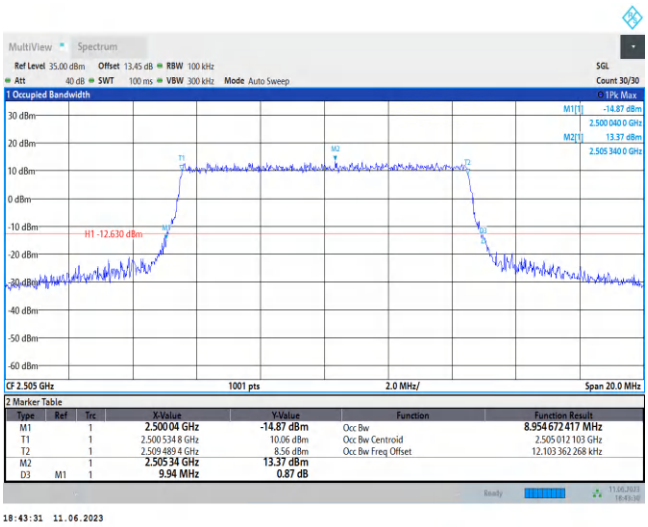
Band7-10MHz-QPSK-21400-50RB#0



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



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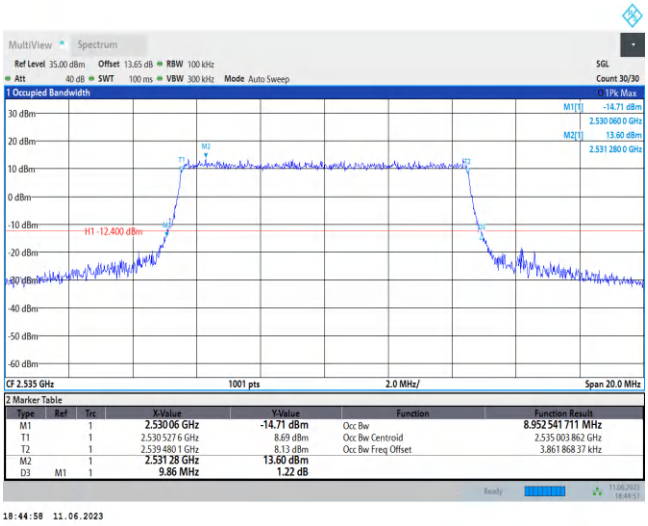
Band7-10MHz-16QAM-21100-50RB#0



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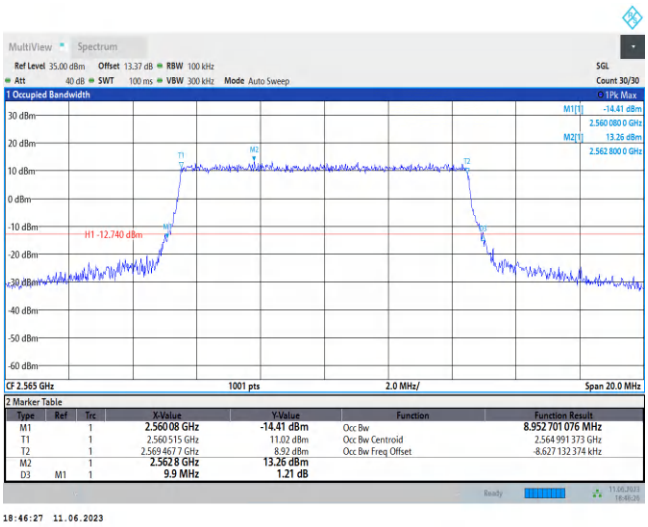

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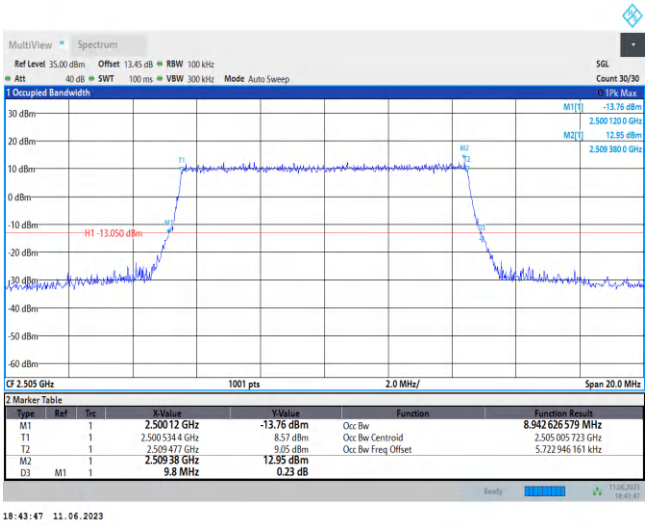
Band7-10MHz-64QAM-20800-50RB#0



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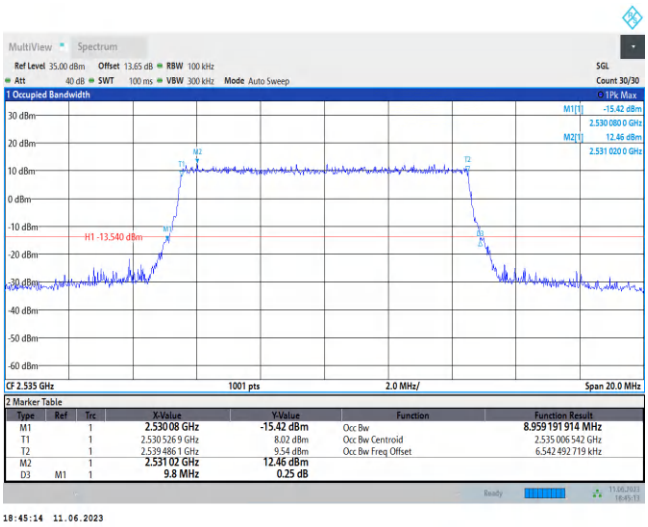

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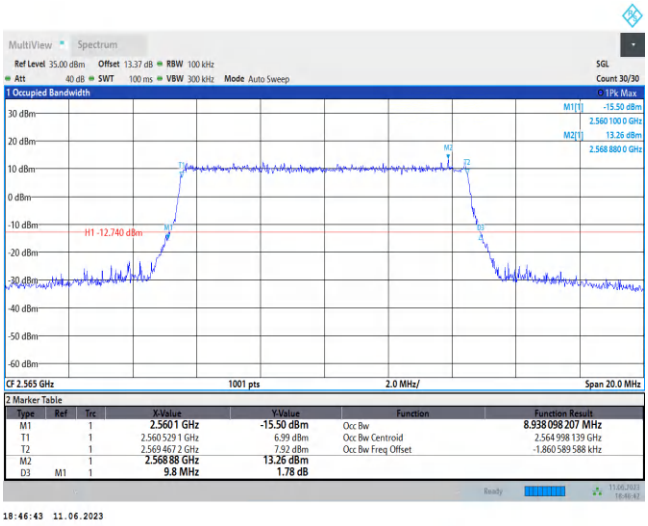
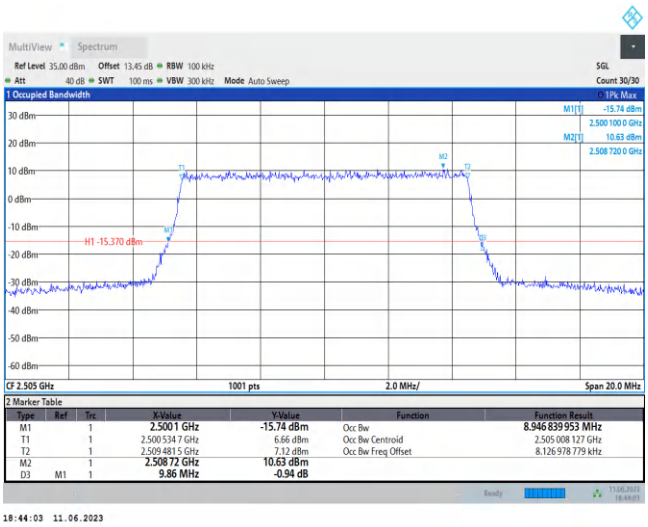
Band7-10MHz-64QAM-21400-50RB#0



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



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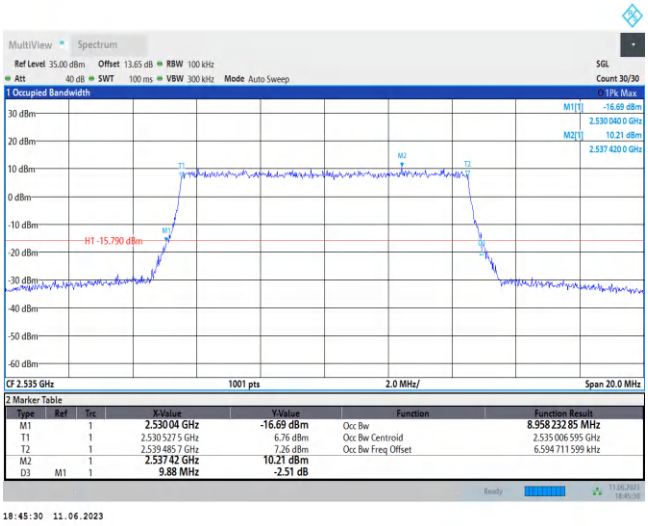
Band7-10MHz-256QAM-21100-50RB#0



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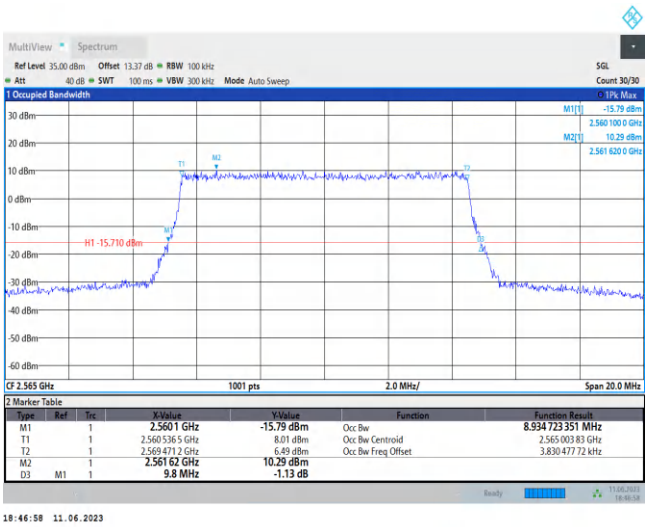

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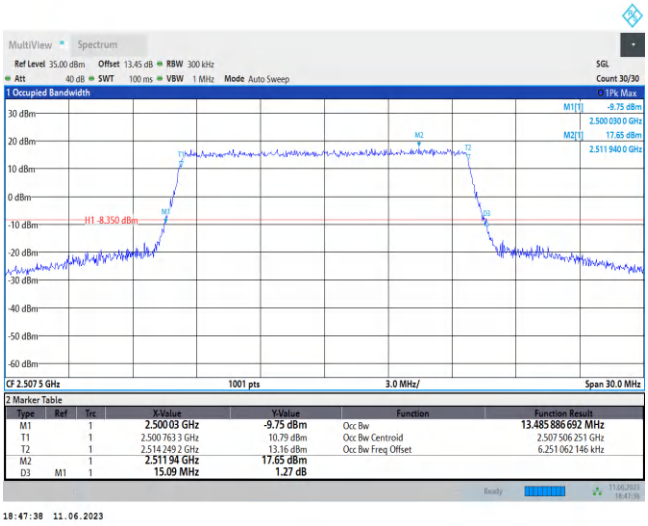
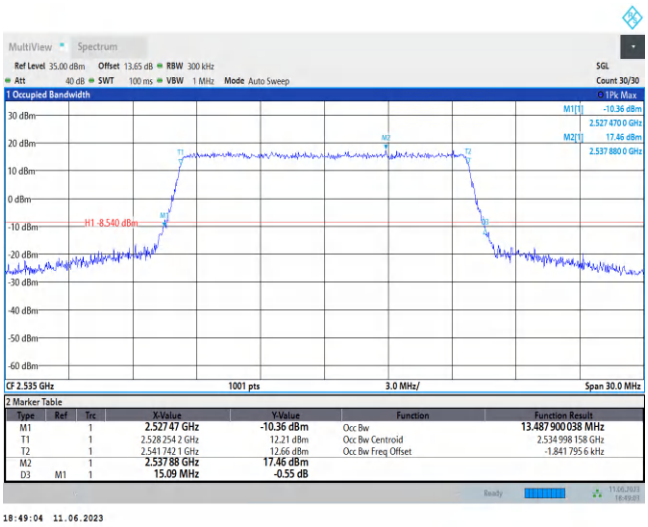
Band7-15MHz-QPSK-20825-75RB#0



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



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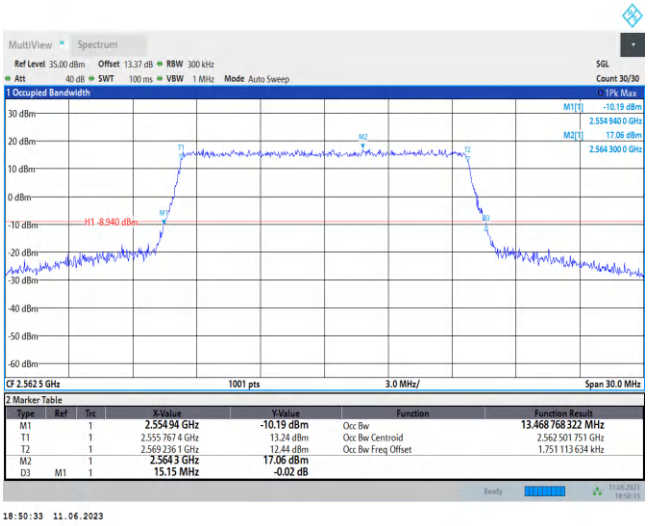
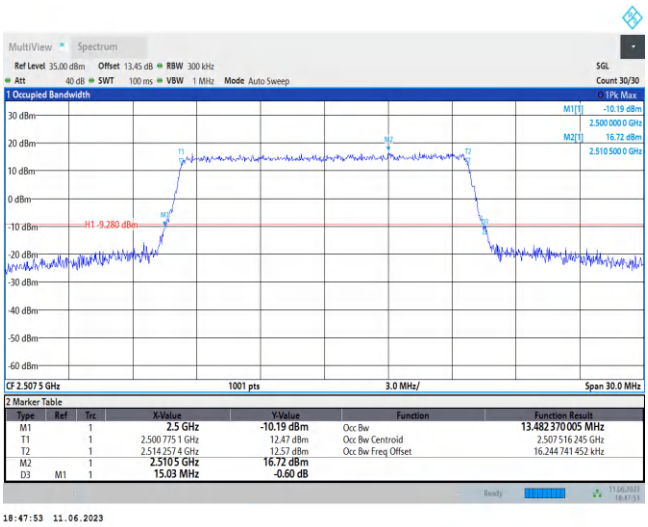
Band7-15MHz-QPSK-21375-75RB#0



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



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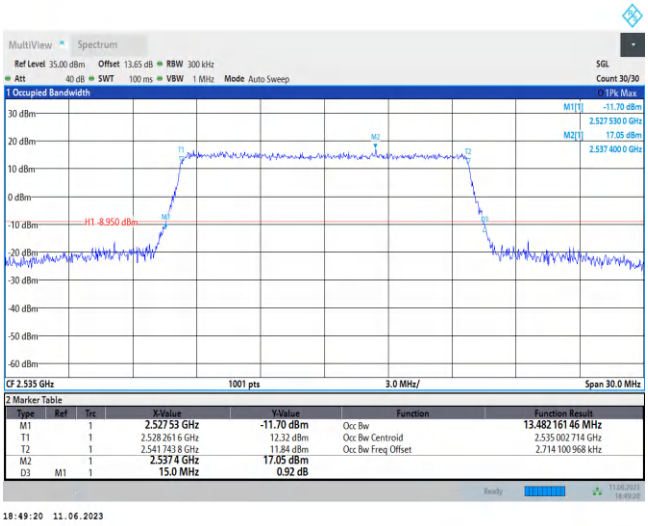
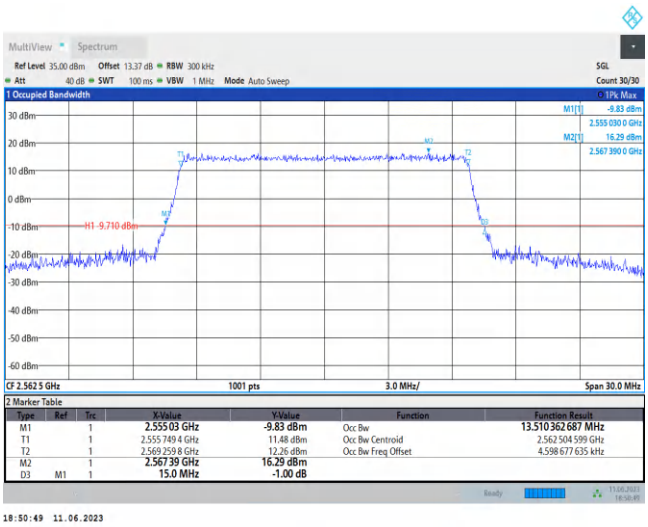
Band7-15MHz-16QAM-21100-75RB#0



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



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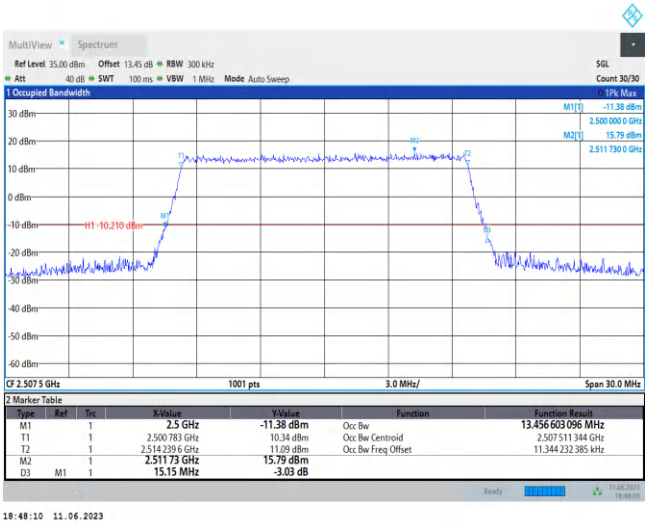
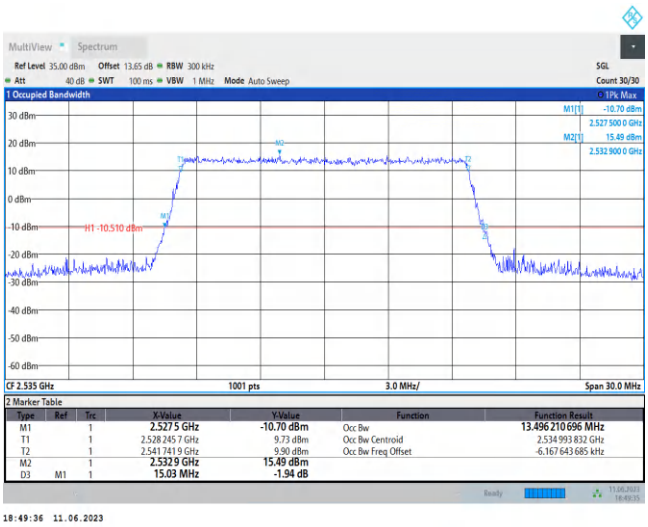
Band7-15MHz-64QAM-20825-75RB#0



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



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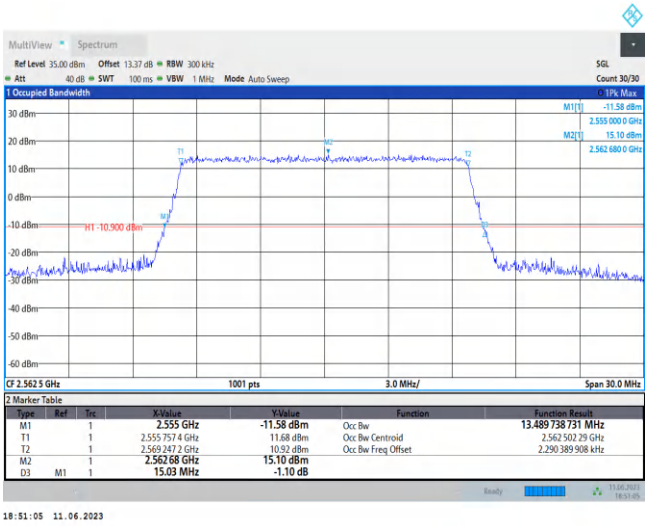
Band7-15MHz-64QAM-21375-75RB#0



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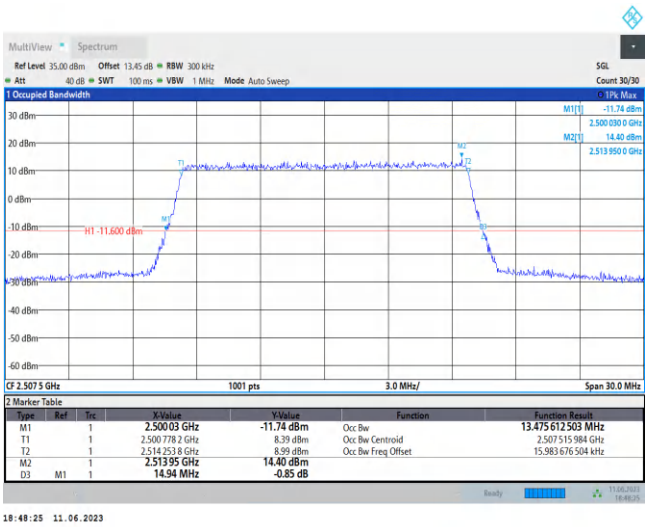

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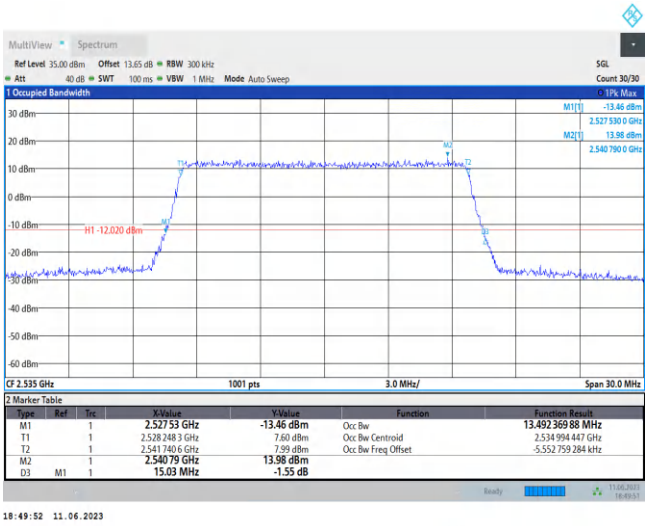
Band7-15MHz-256QAM-21100-75RB#0



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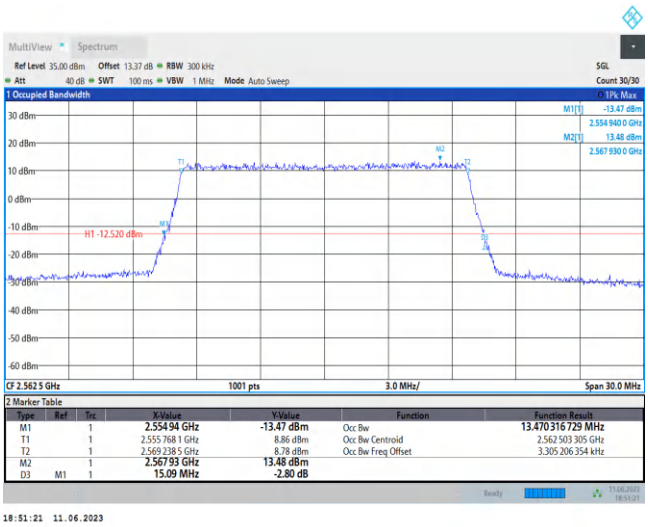

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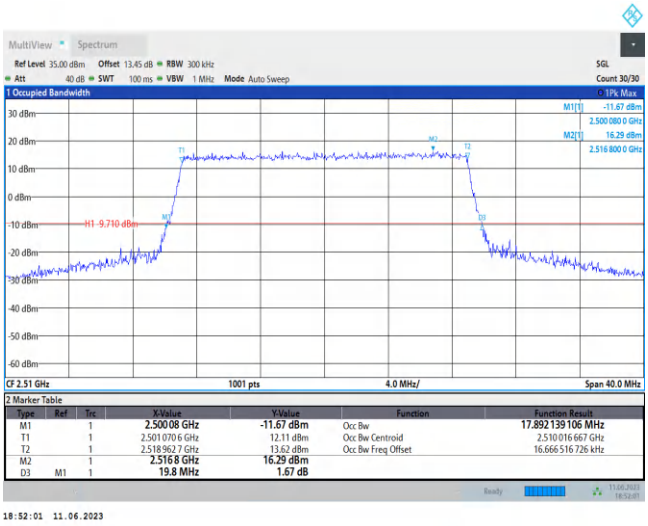
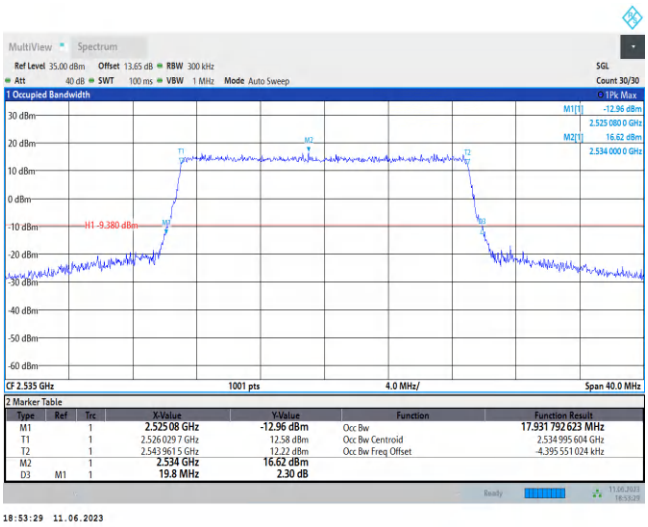
Band7-20MHz-QPSK-20850-100RB#0



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



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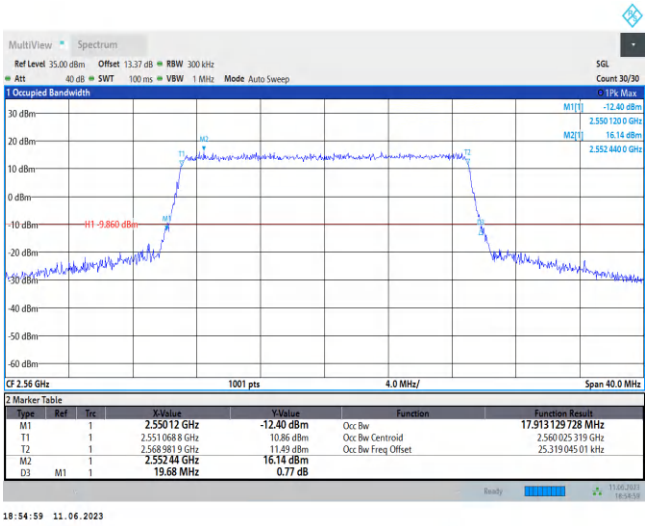
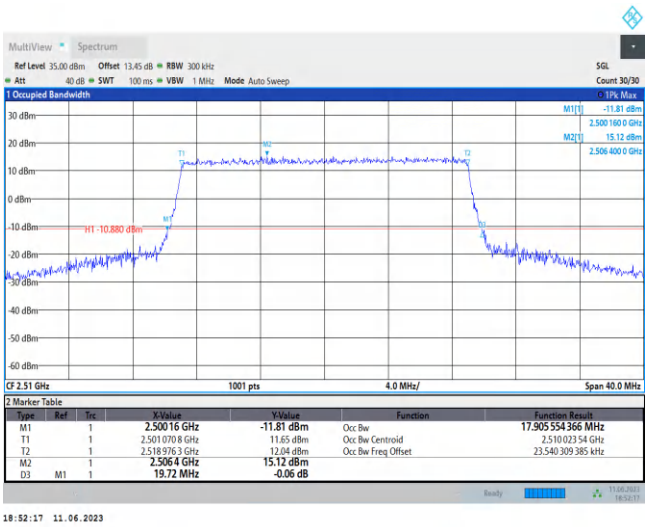
Band7-20MHz-QPSK-21350-100RB#0



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



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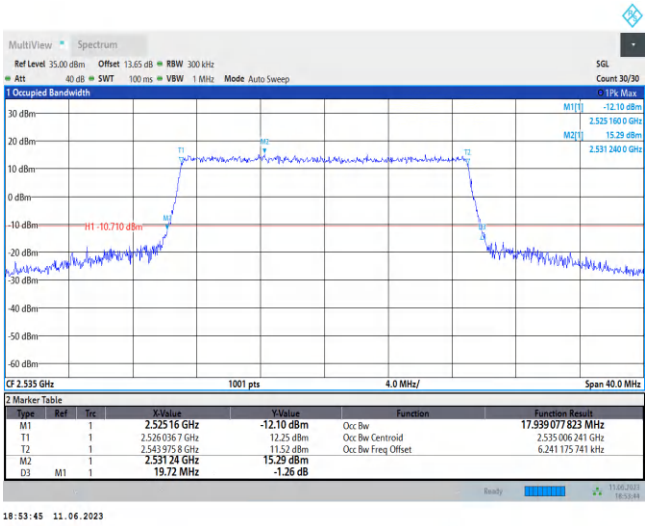
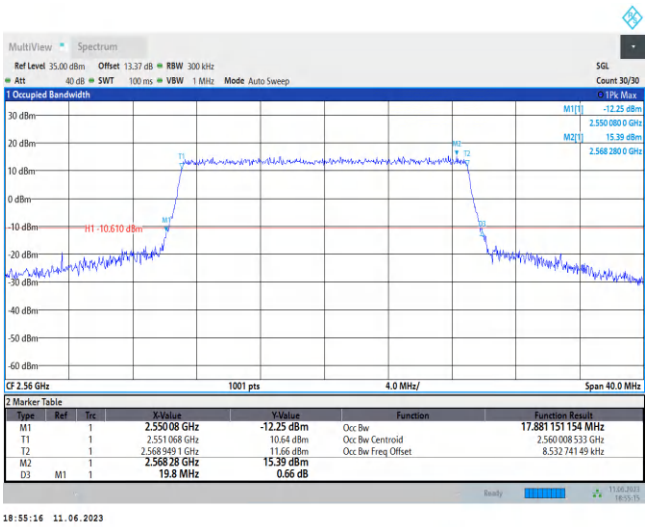
Band7-20MHz-16QAM-21100-100RB#0



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



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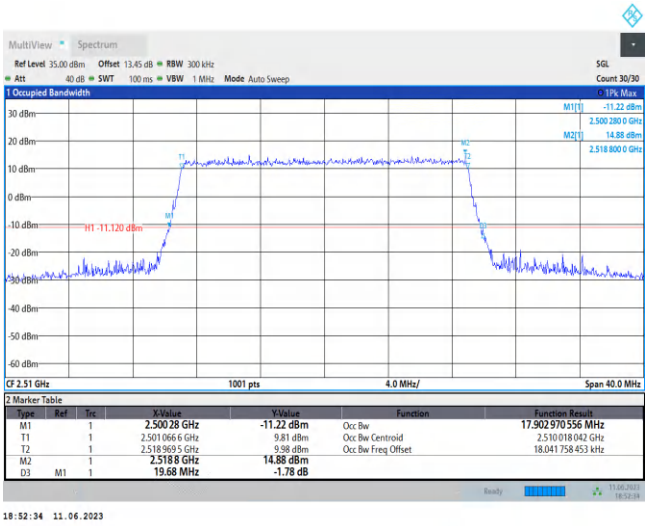
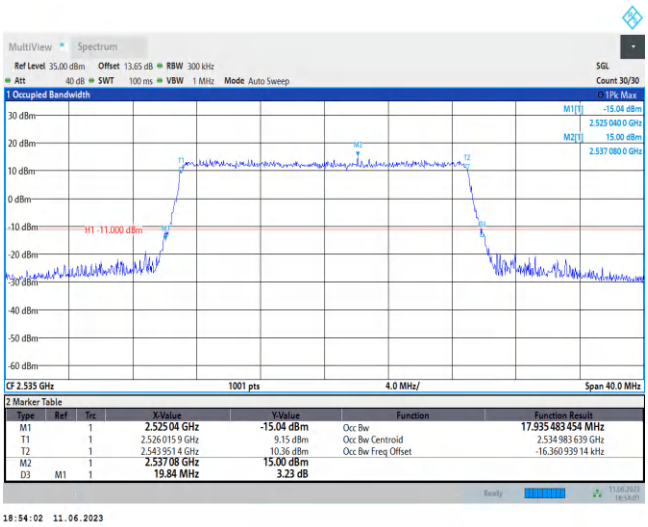
Band7-20MHz-64QAM-20850-100RB#0



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



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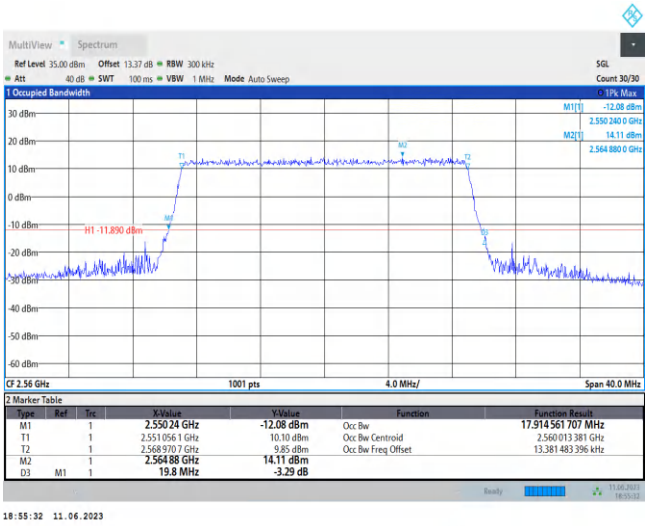
Band7-20MHz-64QAM-21350-100RB#0



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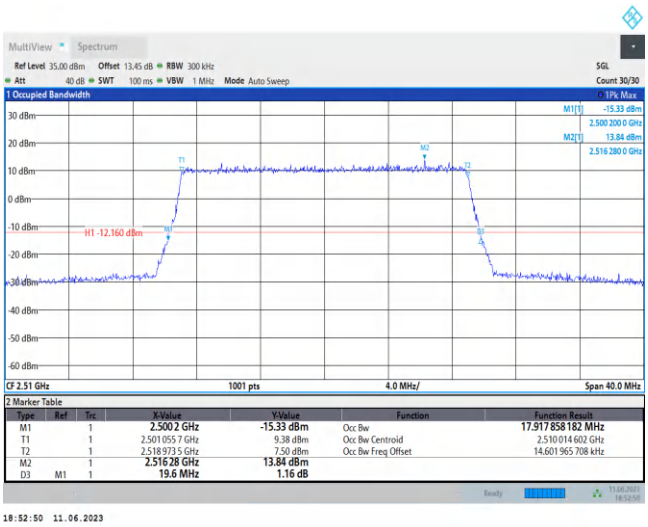

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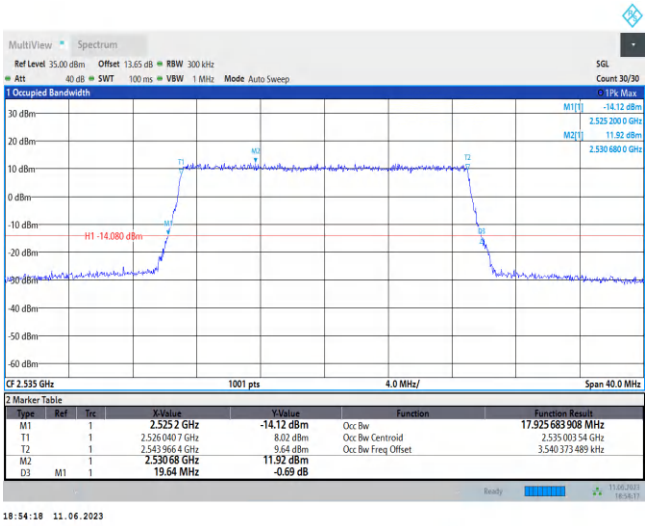
Band7-20MHz-256QAM-21100-100RB#0



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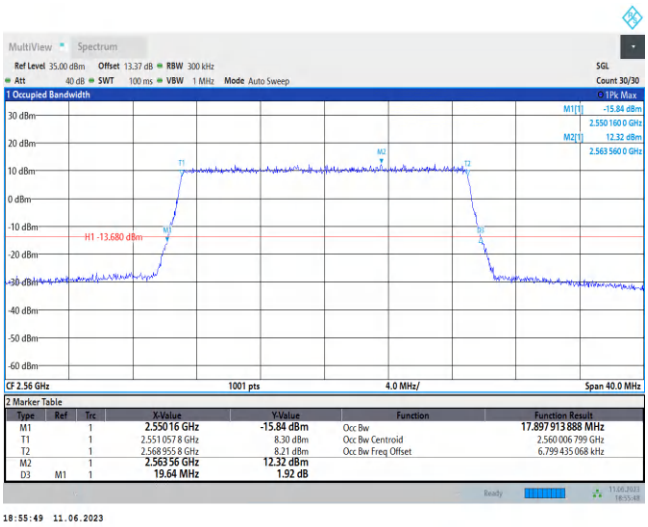

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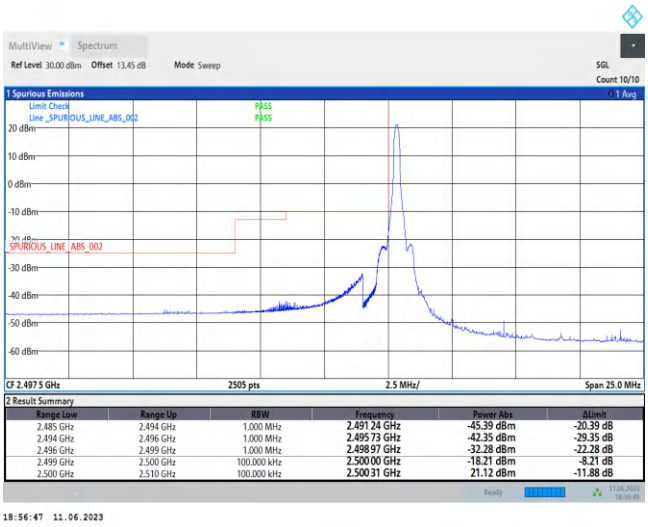
Band Edge

Test Graphs

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



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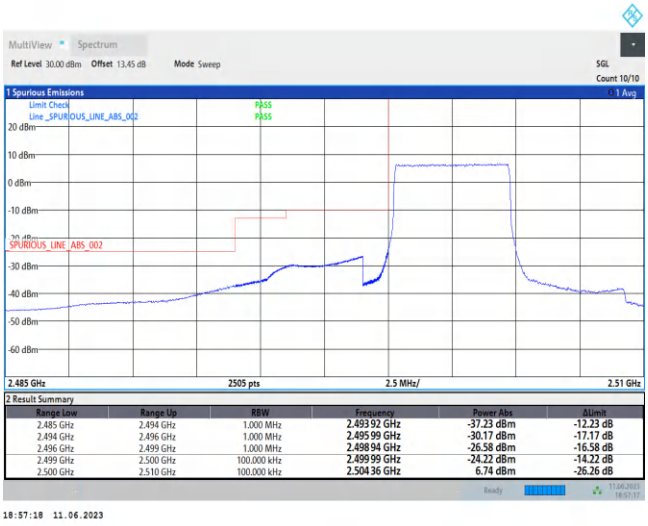

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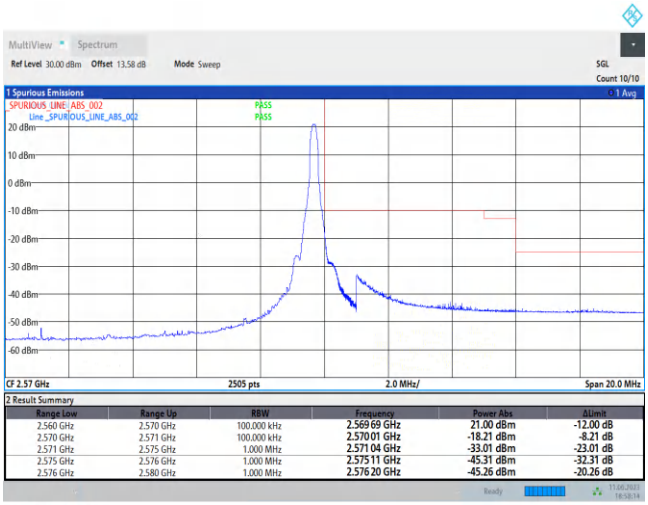
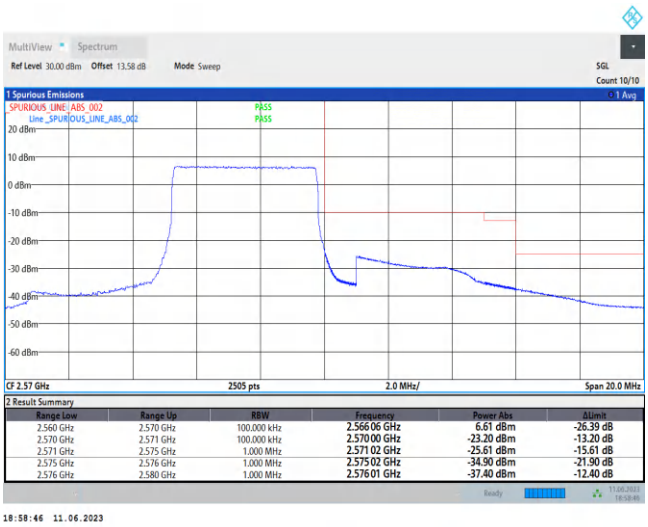
Band7-5MHz-QPSK-21425-1RB#24



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



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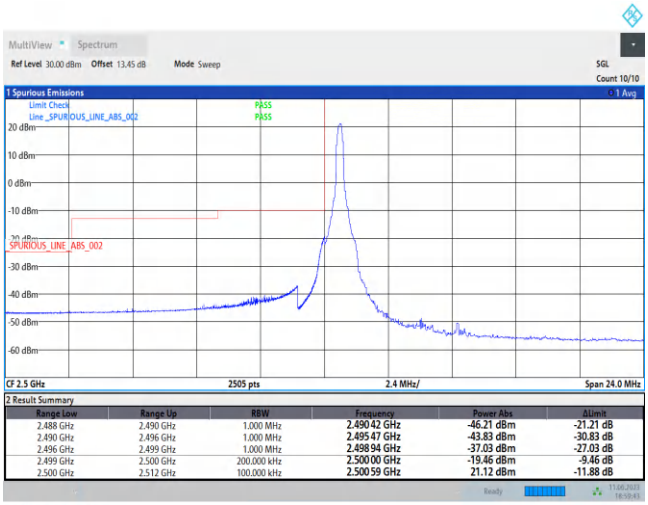
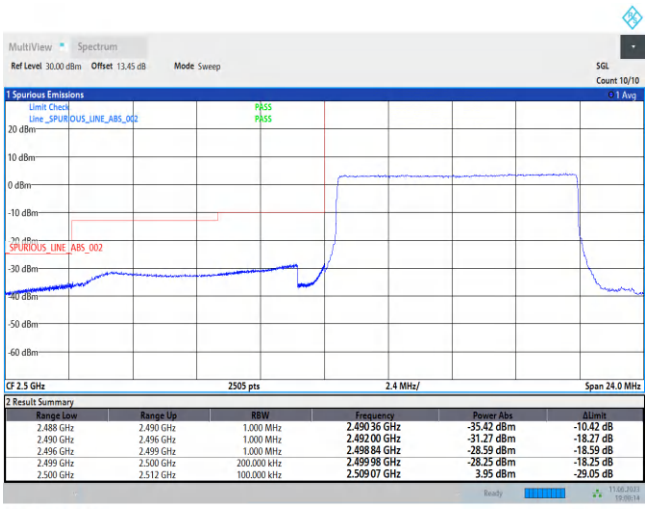
Band7-10MHz-QPSK-20800-1RB#0



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



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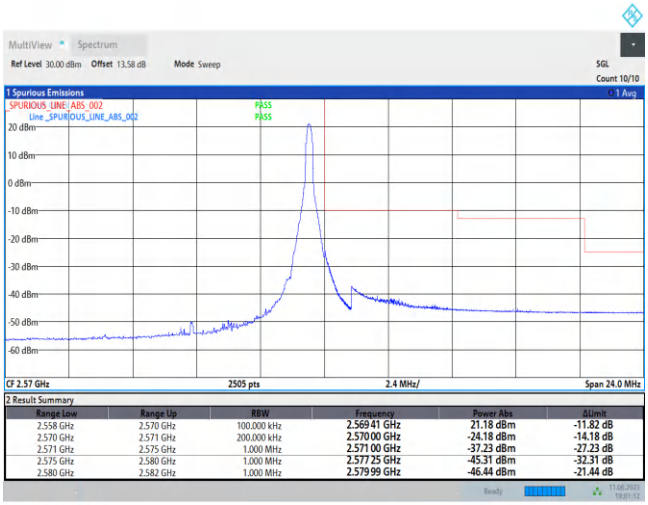
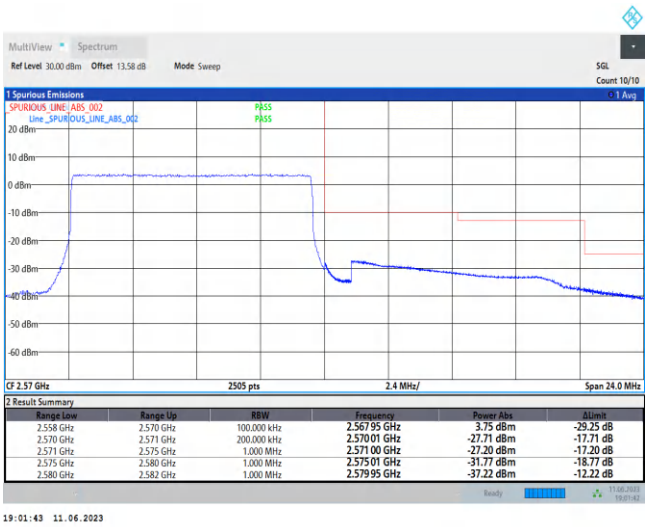
Band7-10MHz-QPSK-21400-1RB#49



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



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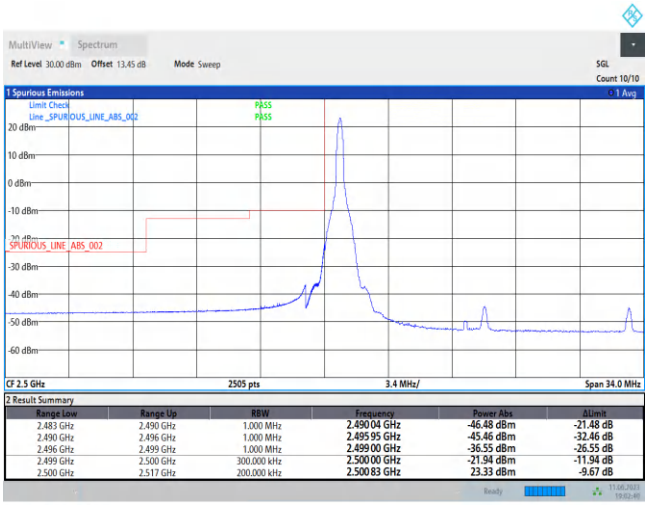
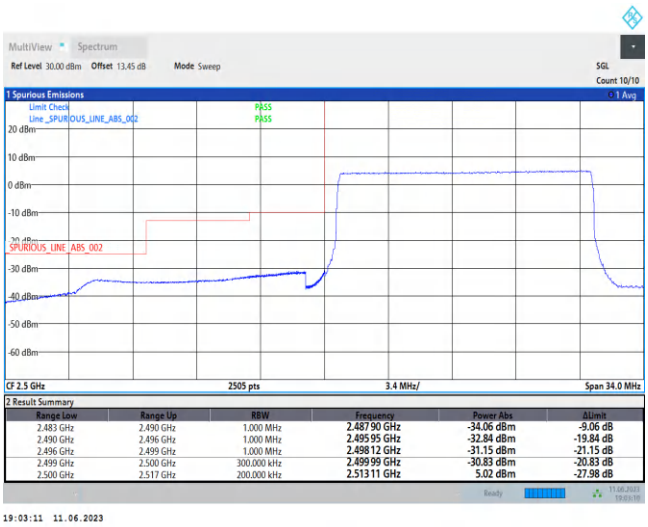
Band7-15MHz-QPSK-20825-1RB#0



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



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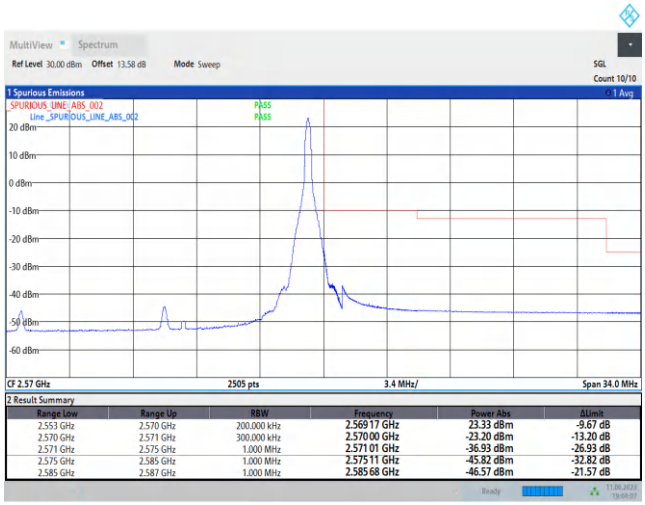
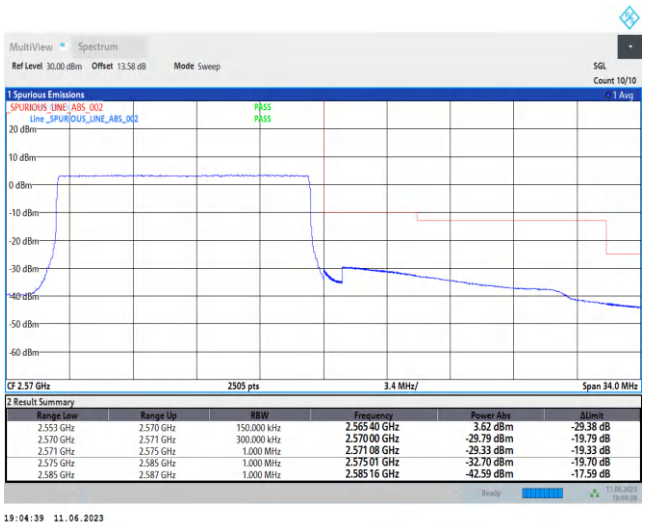
Band7-15MHz-QPSK-21375-1RB#74



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



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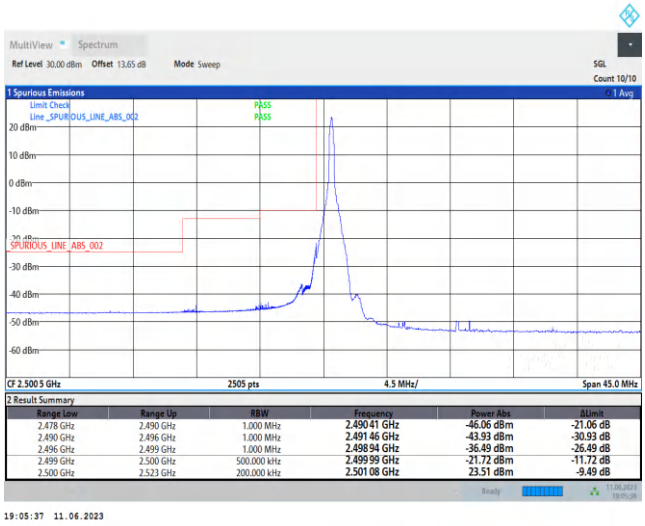
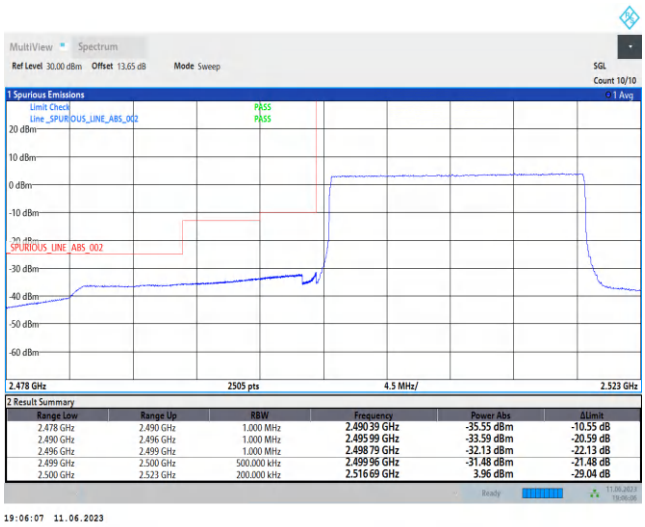
Band7-20MHz-QPSK-20850-1RB#0



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



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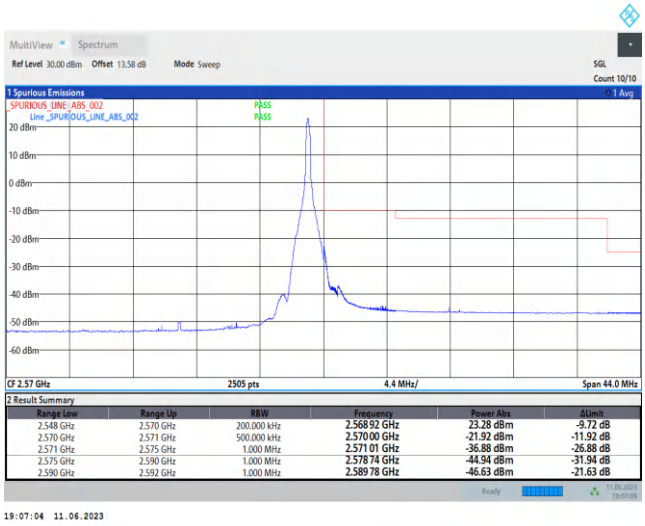
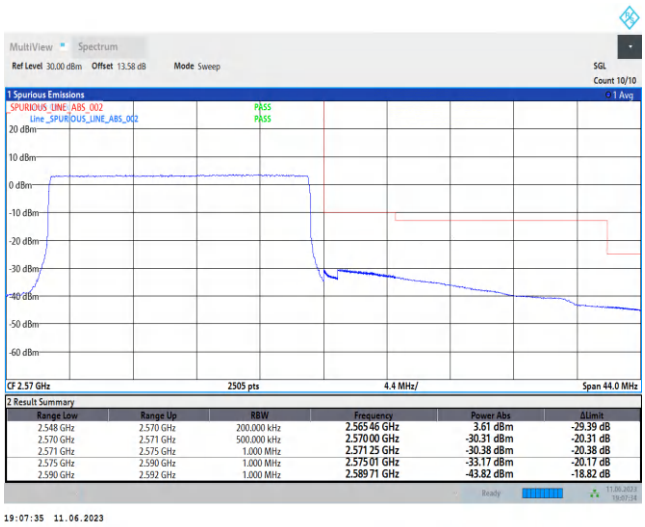
Band7-20MHz-QPSK-21350-1RB#99



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



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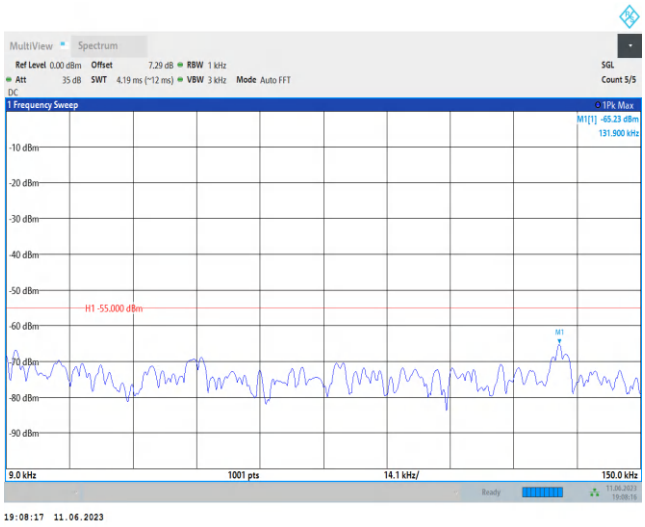
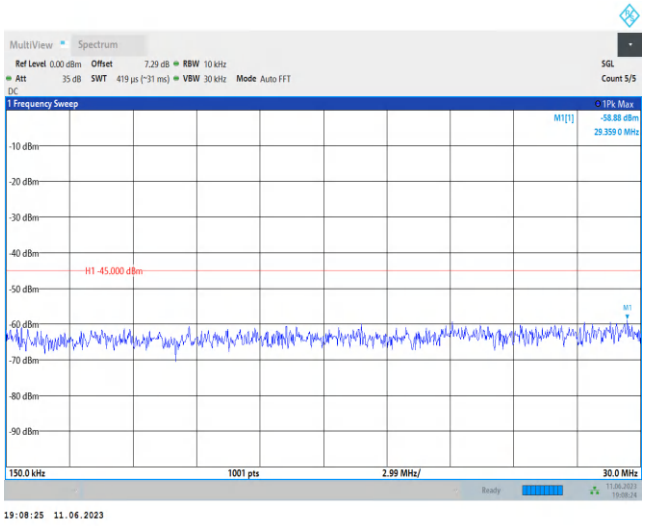
Conducted Spurious Emission

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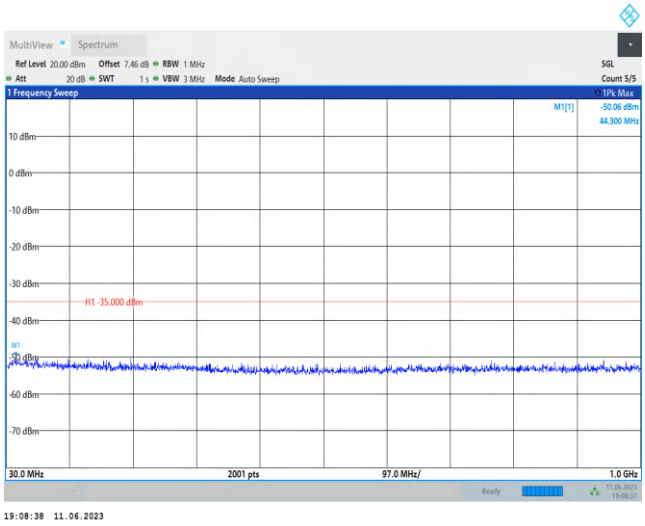
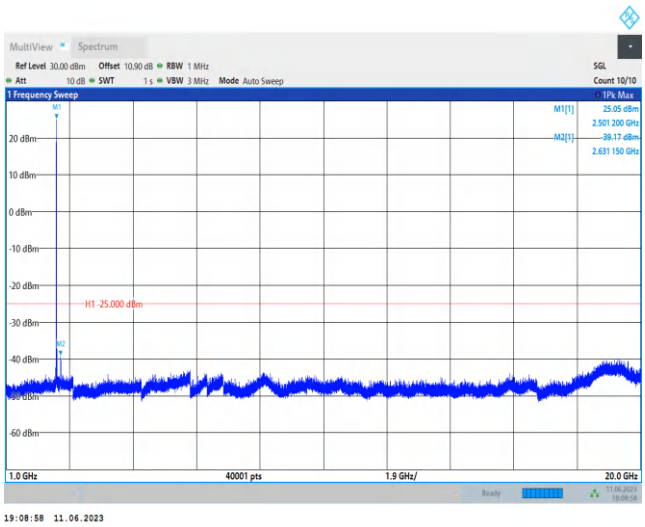
Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



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



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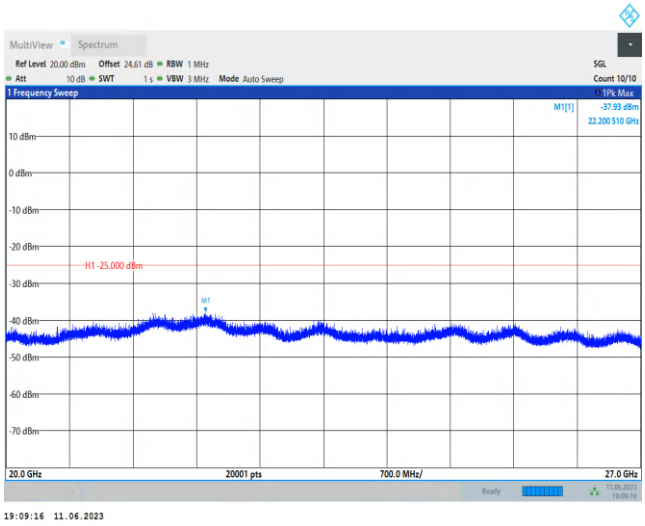
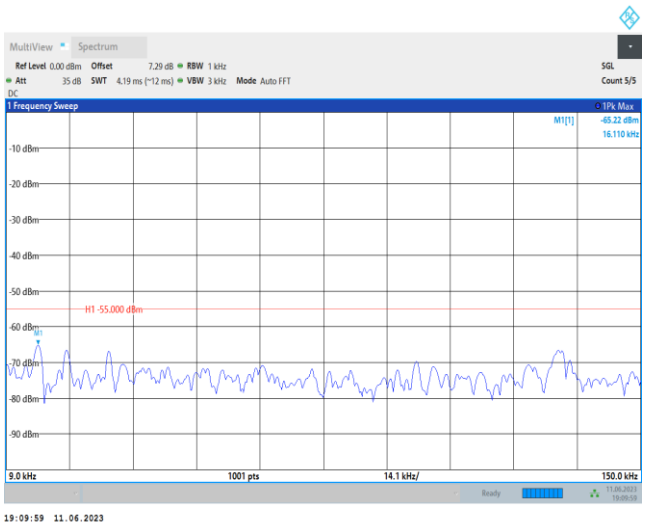
Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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



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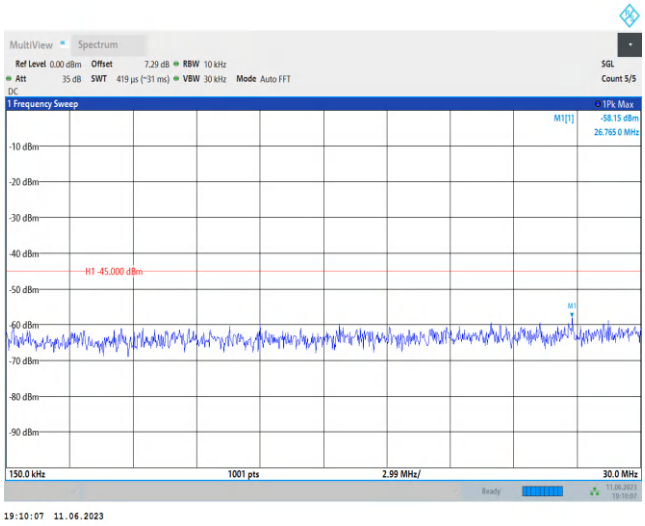
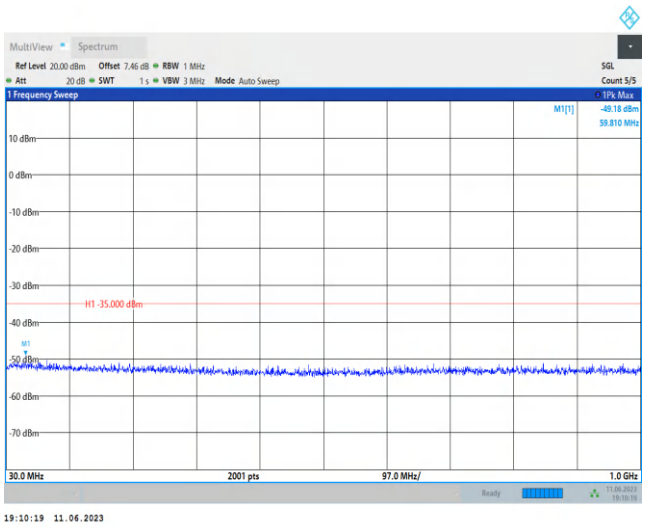
Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



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



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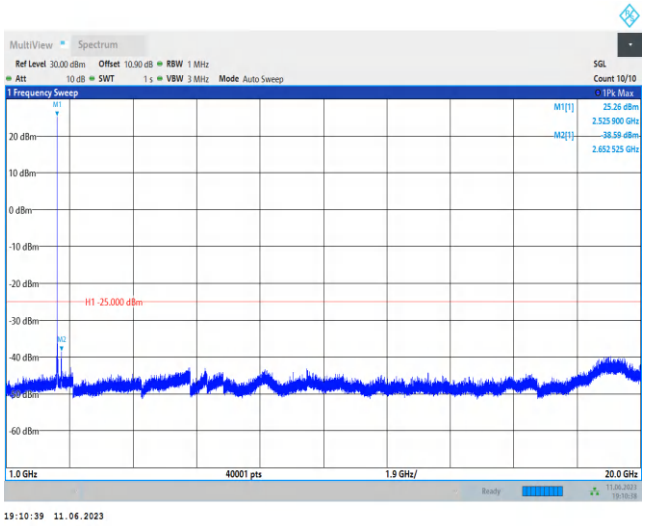
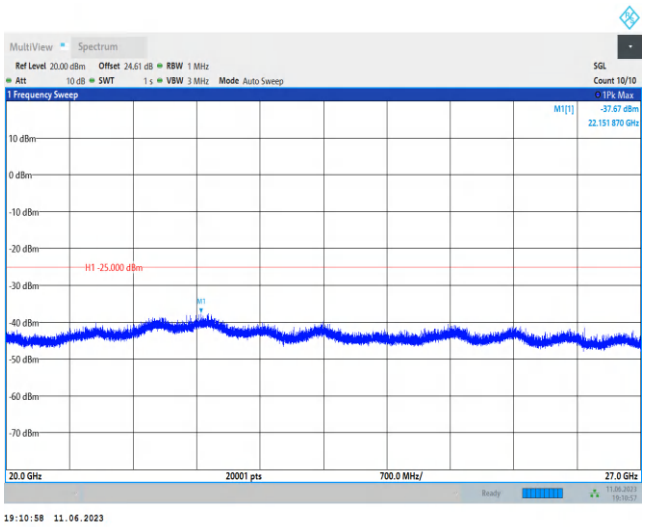
Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



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



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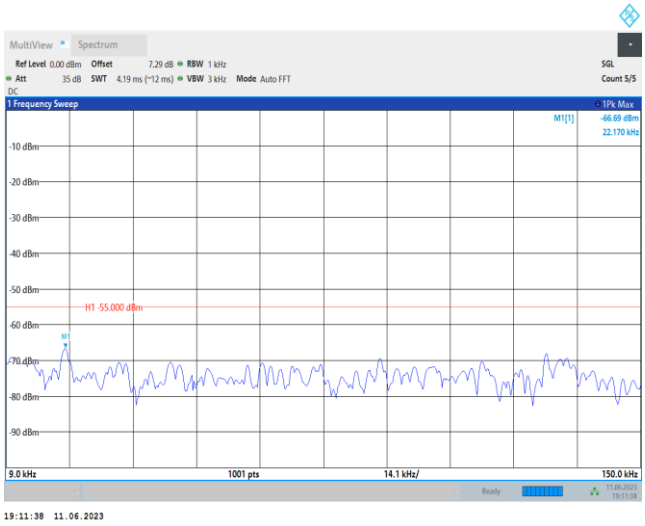
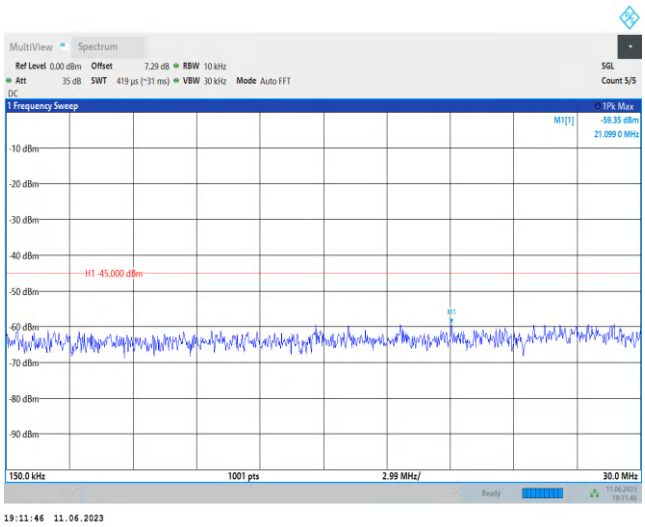
Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



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



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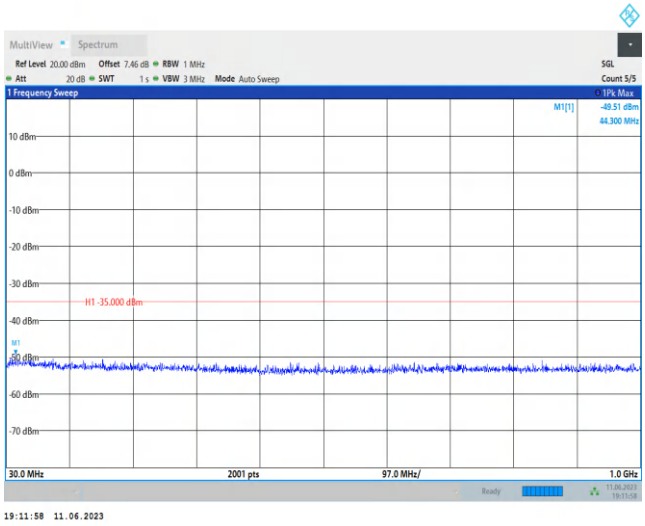
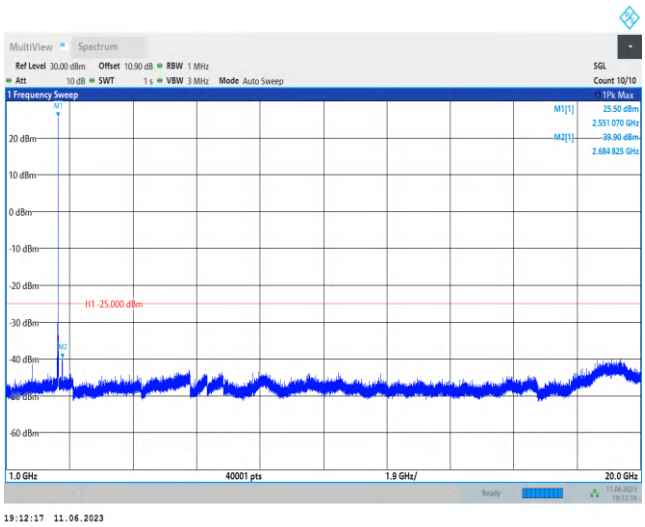
Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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



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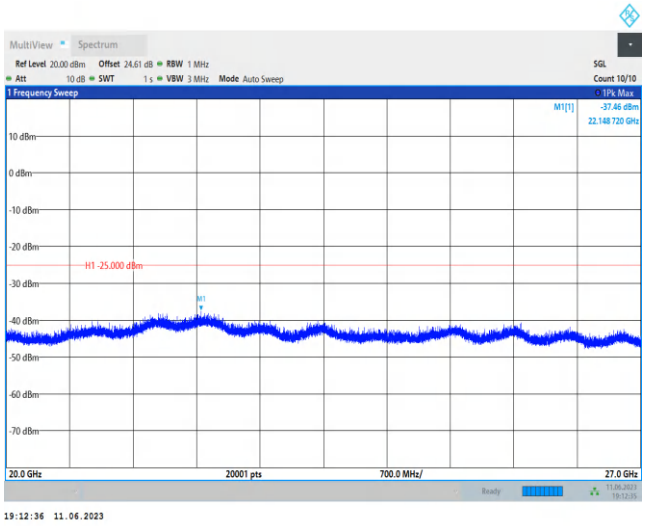
Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation(Worse)

Test Band = LTE Band7_ TM1_20MHz
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	41.27	-45.63	31.41	-68.22	-25.00	43.22	203	178	Horizontal
2	7503.2700	40.04	-43.13	36.60	-61.75	-25.00	36.75	145	71	Horizontal
3	10004.3600	35.51	-39.23	38.20	-60.78	-25.00	35.78	169	344	Horizontal
4	12505.4500	32.88	-36.99	38.95	-60.42	-25.00	35.42	123	354	Horizontal
5	15006.5400	30.29	-34.65	41.29	-58.34	-25.00	33.34	147	310	Horizontal
6	17507.6300	32.63	-34.95	44.59	-52.99	-25.00	27.99	251	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	5002.1800	41.45	-45.63	31.41	-68.04	-25.00	43.04	188	289	Vertical
2	7503.2700	39.07	-43.13	36.60	-62.72	-25.00	37.72	145	237	Vertical
3	10004.3600	36.02	-39.23	38.20	-60.27	-25.00	35.27	163	73	Vertical
4	12505.4500	33.59	-36.99	38.95	-59.71	-25.00	34.71	147	0	Vertical
5	15006.5400	31.30	-34.65	41.29	-57.33	-25.00	32.33	225	7	Vertical
6	17507.6300	32.32	-34.95	44.59	-53.30	-25.00	28.30	125	37	Vertical

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Test Band = LTE Band7_ TM1_20MHz
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	41.45	-45.50	31.53	-67.78	-25.00	42.78	120	90	Horizontal
2	7578.2700	39.50	-42.98	36.63	-62.10	-25.00	37.10	136	234	Horizontal
3	10104.3600	35.92	-39.14	38.25	-60.22	-25.00	35.22	169	198	Horizontal
4	12630.4500	32.97	-37.33	38.99	-60.63	-25.00	35.63	187	253	Horizontal
5	15156.5400	30.34	-34.36	40.97	-58.31	-25.00	33.31	132	342	Horizontal
6	17682.6300	33.41	-33.89	45.37	-50.37	-25.00	25.37	226	143	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	41.96	-45.50	31.53	-67.27	-25.00	42.27	152	144	Vertical
2	7578.2700	40.23	-42.98	36.63	-61.37	-25.00	36.37	199	0	Vertical
3	10104.3600	38.28	-39.14	38.25	-57.86	-25.00	32.86	158	1	Vertical
4	12630.4500	32.08	-37.33	38.99	-61.52	-25.00	36.52	254	108	Vertical
5	15156.5400	32.05	-34.36	40.97	-56.60	-25.00	31.60	163	0	Vertical
6	17682.6300	32.38	-33.89	45.37	-51.40	-25.00	26.40	144	124	Vertical

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Test Band = LTE Band7_ TM1_20MHz
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	40.96	-45.37	31.65	-68.02	-25.00	43.02	100	3	Horizontal
2	7653.2700	40.42	-43.03	36.66	-61.21	-25.00	36.21	100	252	Horizontal
3	10204.3600	35.32	-39.48	38.30	-61.12	-25.00	36.12	100	35	Horizontal
4	12755.4500	33.22	-36.76	39.03	-59.78	-25.00	34.78	100	216	Horizontal
5	15306.5400	32.10	-34.35	40.66	-56.86	-25.00	31.86	100	216	Horizontal
6	17857.6300	32.70	-34.56	46.16	-50.96	-25.00	25.96	100	3	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	41.07	-45.37	31.65	-67.91	-25.00	42.91	100	36	Vertical
2	7653.2700	40.63	-43.03	36.66	-61.00	-25.00	36.00	100	90	Vertical
3	10204.3600	35.71	-39.48	38.30	-60.73	-25.00	35.73	100	162	Vertical
4	12755.4500	32.35	-36.76	39.03	-60.65	-25.00	35.65	100	2	Vertical
5	15306.5400	31.52	-34.35	40.66	-57.44	-25.00	32.44	100	90	Vertical
6	17857.6300	33.20	-34.56	46.16	-50.46	-25.00	25.46	100	217	Vertical

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Test Band = 7A_66A_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4579	43.93	-45.68	30.47	-66.53	-25.00	41.53	216	36	Horizontal
2	6084	42.77	-44.51	32.97	-64.03	-25.00	39.03	133	179	Horizontal
3	6701.5	42.71	-43.82	34.66	-61.70	-25.00	36.70	259	89	Horizontal
4	7778.5	41.52	-42.48	36.71	-59.51	-25.00	34.51	199	0	Horizontal
5	8801.5	40.29	-41.25	36.40	-59.82	-25.00	34.82	147	356	Horizontal
6	10360.5	37.50	-39.04	38.38	-58.42	-25.00	33.42	180	144	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	4400.5	43.52	-45.82	30.06	-67.50	-25.00	42.50	145	4	Vertical
2	5845.5	43.18	-44.85	32.67	-64.26	-25.00	39.26	172	289	Vertical
3	6468.5	42.67	-44.55	34.20	-62.94	-25.00	37.94	166	360	Vertical
4	7783	41.71	-42.45	36.71	-59.28	-25.00	34.28	259	145	Vertical
5	9335.5	39.63	-40.08	36.94	-58.77	-25.00	33.77	143	360	Vertical
6	11765	35.70	-36.95	38.78	-57.73	-25.00	32.73	213	352	Vertical

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Member of the SGS Group (SGS SA)

Test Band = 7A_66A_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4745	43.88	-45.57	30.84	-66.11	-25.00	41.11	214	55	Horizontal
2	5721	42.84	-44.83	32.64	-64.60	-25.00	39.60	152	254	Horizontal
3	6729	42.88	-43.91	34.71	-61.58	-25.00	36.58	136	307	Horizontal
4	7895.5	41.98	-42.80	36.76	-59.32	-25.00	34.32	254	2	Horizontal
5	9658.5	38.20	-39.54	37.55	-59.04	-25.00	34.04	189	0	Horizontal
6	12511	36.33	-37.02	38.95	-57.00	-25.00	32.00	197	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	4003.5	43.97	-46.03	29.11	-68.21	-25.00	43.21	210	324	Vertical
2	5399	43.57	-45.30	32.36	-64.63	-25.00	39.63	230	288	Vertical
3	6347.5	42.53	-44.48	33.81	-63.40	-25.00	38.40	159	352	Vertical
4	6838.5	43.21	-44.14	34.91	-61.28	-25.00	36.28	148	307	Vertical
5	8612	40.19	-41.37	36.49	-59.95	-25.00	34.95	172	108	Vertical
6	11219.5	36.74	-37.40	38.72	-57.19	-25.00	32.19	161	358	Vertical

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Test Band = 7A_66A_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4785.5	43.99	-45.55	30.93	-65.89	-25.00	40.89	169	73	Horizontal
2	6116	42.86	-44.50	33.07	-63.83	-25.00	38.83	142	287	Horizontal
3	8428.5	41.45	-41.50	36.59	-58.72	-25.00	33.72	187	216	Horizontal
4	9367.5	39.80	-39.96	37.00	-58.42	-25.00	33.42	175	91	Horizontal
5	11847.5	35.99	-37.02	38.78	-57.50	-25.00	32.50	153	216	Horizontal
6	14894	34.75	-34.73	41.26	-53.98	-25.00	28.98	266	37	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	4595.5	44.28	-45.67	30.51	-66.14	-25.00	41.14	288	144	Vertical
2	5876	43.17	-44.92	32.68	-64.33	-25.00	39.33	149	144	Vertical
3	7187	42.44	-43.52	35.72	-60.62	-25.00	35.62	176	351	Vertical
4	8349	41.88	-41.74	36.63	-58.49	-25.00	33.49	216	322	Vertical
5	10373	37.25	-39.03	38.39	-58.66	-25.00	33.66	251	305	Vertical
6	12480.5	36.01	-37.07	38.94	-57.37	-25.00	32.37	106	351	Vertical

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Test Band = 7A_26A_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5221.5	43.52	-45.24	31.93	-65.05	-25.00	40.05	175	342	Horizontal
2	6786.5	42.24	-44.12	34.82	-62.33	-25.00	37.33	163	34	Horizontal
3	7413	41.98	-43.37	36.36	-60.30	-25.00	35.30	256	180	Horizontal
4	8390	40.56	-41.51	36.61	-59.60	-25.00	34.60	192	306	Horizontal
5	9607.5	37.52	-39.65	37.45	-59.94	-25.00	34.94	148	160	Horizontal
6	10349.5	36.89	-39.05	38.37	-59.05	-25.00	34.05	122	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	4926	43.81	-45.56	31.24	-65.77	-25.00	40.77	166	35	Vertical
2	6393.5	42.50	-44.42	33.96	-63.22	-25.00	38.22	118	3	Vertical
3	7378	42.31	-43.48	36.26	-60.18	-25.00	35.18	172	35	Vertical
4	7888	41.35	-42.76	36.76	-59.91	-25.00	34.91	149	17	Vertical
5	9640.5	37.38	-39.58	37.52	-59.94	-25.00	34.94	183	271	Vertical
6	12709	34.41	-36.69	39.01	-58.53	-25.00	33.53	155	307	Vertical

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Test Band = 7A_26A_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4929.5	44.21	-45.56	31.24	-65.37	-25.00	40.37	175	53	Horizontal
2	6108	42.00	-44.47	33.05	-64.69	-25.00	39.69	142	236	Horizontal
3	7438.5	41.69	-43.31	36.43	-60.45	-25.00	35.45	163	0	Horizontal
4	8387	40.32	-41.52	36.61	-59.86	-25.00	34.86	301	289	Horizontal
5	9317	38.83	-40.15	36.90	-59.68	-25.00	34.68	155	307	Horizontal
6	12840	34.29	-36.94	39.05	-58.86	-25.00	33.86	169	255	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	5206.5	43.01	-45.27	31.90	-65.62	-25.00	40.62	187	325	Vertical
2	6154.5	42.42	-44.62	33.19	-64.26	-25.00	39.26	149	289	Vertical
3	7441	41.63	-43.30	36.43	-60.49	-25.00	35.49	126	273	Vertical
4	8390.5	40.60	-41.50	36.60	-59.56	-25.00	34.56	153	163	Vertical
5	9311	38.80	-40.18	36.89	-59.75	-25.00	34.75	210	289	Vertical
6	11227.5	35.57	-37.40	38.72	-58.37	-25.00	33.37	165	254	Vertical

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Test Band = 7A_26A_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4928.5	43.74	-45.56	31.24	-65.84	-25.00	40.84	122	199	Horizontal
2	6512	42.44	-44.58	34.32	-63.08	-25.00	38.08	174	71	Horizontal
3	7657	41.79	-43.04	36.66	-59.85	-25.00	34.85	186	306	Horizontal
4	8803	40.26	-41.25	36.40	-59.85	-25.00	34.85	194	1	Horizontal
5	10567	36.00	-38.58	38.48	-59.36	-25.00	34.36	170	199	Horizontal
6	12670.5	34.52	-36.96	39.00	-58.70	-25.00	33.70	136	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	4437.5	44.03	-45.78	30.15	-66.86	-25.00	41.86	184	215	Vertical
2	5963	42.63	-44.88	32.69	-64.82	-25.00	39.82	156	270	Vertical
3	7521.5	41.50	-43.09	36.61	-60.25	-25.00	35.25	126	163	Vertical
4	8407	40.79	-41.46	36.60	-59.34	-25.00	34.34	133	360	Vertical
5	9650	38.21	-39.56	37.54	-59.07	-25.00	34.07	184	126	Vertical
6	11391.5	34.83	-37.37	38.74	-59.07	-25.00	34.07	192	71	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) - Preamplifier (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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-1.10	-0.000434	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-3.20	-0.001262	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-1.20	-0.000473	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	0.40	0.000158	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-0.10	-0.000039	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	1.90	0.000750	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	0.80	0.000316	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	0.60	0.000237	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	0.80	0.000316	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-0.30	-0.000118	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	1.30	0.000513	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-0.20	-0.000079	PASS

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