

Report No.: SEWM2308000314RG01

Rev.: 01

Page: 1 of 62

# Appendix B.12

## LTE Band 48



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

ANT5

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	23.48	22.48	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#12	23.38	22.38	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#24	23.43	22.43	23.00	PASS
Band48	5MHz	QPSK	55265	25RB#0	22.43	21.43	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#0	23.36	22.36	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#12	23.57	22.57	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#24	23.6	22.6	23.00	PASS
Band48	5MHz	QPSK	55990	25RB#0	22.61	21.61	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#0	23.25	22.25	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#12	23.41	22.41	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#24	23.42	22.42	23.00	PASS
Band48	5MHz	QPSK	56715	25RB#0	22.44	21.44	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#0	22.51	21.51	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#12	22.42	21.42	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#24	22.45	21.45	23.00	PASS
Band48	5MHz	16QAM	55265	25RB#0	21.37	20.37	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#0	22.62	21.62	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#12	22.61	21.61	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#24	22.63	21.63	23.00	PASS
Band48	5MHz	16QAM	55990	25RB#0	21.54	20.54	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#0	22.42	21.42	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#12	22.41	21.41	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#24	22.47	21.47	23.00	PASS
Band48	5MHz	16QAM	56715	25RB#0	21.37	20.37	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#0	21.07	20.07	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#12	21.1	20.1	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#24	21.11	20.11	23.00	PASS



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Band48	5MHz	64QAM	55265	25RB#0	20.41	19.41	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#0	21.26	20.26	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#12	21.25	20.25	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#24	21.27	20.27	23.00	PASS
Band48	5MHz	64QAM	55990	25RB#0	20.59	19.59	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#0	21.1	20.1	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#12	21.04	20.04	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#24	21.09	20.09	23.00	PASS
Band48	5MHz	64QAM	56715	25RB#0	20.4	19.4	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#0	18.28	17.28	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#12	18.26	17.26	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#24	18.31	17.31	23.00	PASS
Band48	5MHz	256QAM	55265	25RB#0	18.47	17.47	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#0	18.48	17.48	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#12	18.47	17.47	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#24	18.46	17.46	23.00	PASS
Band48	5MHz	256QAM	55990	25RB#0	18.65	17.65	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#0	18.25	17.25	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#12	18.29	17.29	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#24	18.28	17.28	23.00	PASS
Band48	5MHz	256QAM	56715	25RB#0	18.49	17.49	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#0	23.36	22.36	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#24	23.44	22.44	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#49	23.51	22.51	23.00	PASS
Band48	10MHz	QPSK	55290	50RB#0	22.51	21.51	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#0	23.43	22.43	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#24	23.57	22.57	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#49	23.55	22.55	23.00	PASS
Band48	10MHz	QPSK	55990	50RB#0	22.65	21.65	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#0	23.39	22.39	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#24	23.41	22.41	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#49	23.4	22.4	23.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 4 of 62

Band48	10MHz	QPSK	56690	50RB#0	22.45	21.45	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#0	22.41	21.41	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#24	22.48	21.48	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#49	22.55	21.55	23.00	PASS
Band48	10MHz	16QAM	55290	50RB#0	21.52	20.52	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#0	22.58	21.58	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#24	22.61	21.61	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#49	22.59	21.59	23.00	PASS
Band48	10MHz	16QAM	55990	50RB#0	21.66	20.66	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#0	22.39	21.39	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#24	22.46	21.46	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#49	22.42	21.42	23.00	PASS
Band48	10MHz	16QAM	56690	50RB#0	21.46	20.46	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#0	21.09	20.09	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#24	21.16	20.16	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#49	21.21	20.21	23.00	PASS
Band48	10MHz	64QAM	55290	50RB#0	20.53	19.53	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#0	21.24	20.24	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#24	21.27	20.27	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#49	21.25	20.25	23.00	PASS
Band48	10MHz	64QAM	55990	50RB#0	20.66	19.66	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#0	21.07	20.07	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#24	21.12	20.12	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#49	21.1	20.1	23.00	PASS
Band48	10MHz	64QAM	56690	50RB#0	20.46	19.46	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#0	18.29	17.29	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#24	18.35	17.35	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#49	18.4	17.4	23.00	PASS
Band48	10MHz	256QAM	55290	50RB#0	18.57	17.57	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#0	18.45	17.45	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#24	18.48	17.48	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#49	18.46	17.46	23.00	PASS



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Band48	10MHz	256QAM	55990	50RB#0	18.71	17.71	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#0	18.25	17.25	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#24	18.33	17.33	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#49	18.28	17.28	23.00	PASS
Band48	10MHz	256QAM	56690	50RB#0	18.5	17.5	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#0	23.32	22.32	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#38	23.49	22.49	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#74	23.5	22.5	23.00	PASS
Band48	15MHz	QPSK	55315	75RB#0	22.52	21.52	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#0	23.47	22.47	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#38	23.55	22.55	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#74	23.55	22.55	23.00	PASS
Band48	15MHz	QPSK	55990	75RB#0	22.59	21.59	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#0	23.41	22.41	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#38	23.38	22.38	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#74	23.4	22.4	23.00	PASS
Band48	15MHz	QPSK	56665	75RB#0	22.4	21.4	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#0	22.39	21.39	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#38	22.53	21.53	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#74	22.57	21.57	23.00	PASS
Band48	15MHz	16QAM	55315	75RB#0	21.51	20.51	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#0	22.57	21.57	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#38	22.61	21.61	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#74	22.63	21.63	23.00	PASS
Band48	15MHz	16QAM	55990	75RB#0	21.57	20.57	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#0	22.33	21.33	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#38	22.46	21.46	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#74	22.46	21.46	23.00	PASS
Band48	15MHz	16QAM	56665	75RB#0	21.39	20.39	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#0	21.06	20.06	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#38	21.2	20.2	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#74	21.21	20.21	23.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 6 of 62

Band48	15MHz	64QAM	55315	75RB#0	20.51	19.51	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#0	21.22	20.22	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#38	21.25	20.25	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#74	21.27	20.27	23.00	PASS
Band48	15MHz	64QAM	55990	75RB#0	20.59	19.59	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#0	20.98	19.98	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#38	21.11	20.11	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#74	21.11	20.11	23.00	PASS
Band48	15MHz	64QAM	56665	75RB#0	20.39	19.39	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#0	18.26	17.26	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#38	18.41	17.41	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#74	18.41	17.41	23.00	PASS
Band48	15MHz	256QAM	55315	75RB#0	18.54	17.54	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#0	18.42	17.42	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#38	18.45	17.45	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#74	18.44	17.44	23.00	PASS
Band48	15MHz	256QAM	55990	75RB#0	18.6	17.6	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#0	18.19	17.19	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#38	18.29	17.29	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#74	18.31	17.31	23.00	PASS
Band48	15MHz	256QAM	56665	75RB#0	18.41	17.41	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#0	23.34	22.34	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#49	23.52	22.52	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#99	23.62	22.62	23.00	PASS
Band48	20MHz	QPSK	55340	100RB#0	22.59	21.59	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#0	23.33	22.33	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#49	23.58	22.58	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#99	23.55	22.55	23.00	PASS
Band48	20MHz	QPSK	55990	100RB#0	22.64	21.64	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#0	23.45	22.45	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#49	23.39	22.39	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#99	23.45	22.45	23.00	PASS



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Band48	20MHz	QPSK	56640	100RB#0	22.46	21.46	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#0	22.37	21.37	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#49	22.56	21.56	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#99	22.63	21.63	23.00	PASS
Band48	20MHz	16QAM	55340	100RB#0	21.62	20.62	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#0	22.55	21.55	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#49	22.62	21.62	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#99	22.57	21.57	23.00	PASS
Band48	20MHz	16QAM	55990	100RB#0	21.66	20.66	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#0	22.31	21.31	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#49	22.43	21.43	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#99	22.48	21.48	23.00	PASS
Band48	20MHz	16QAM	56640	100RB#0	21.49	20.49	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#0	21.06	20.06	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#49	21.23	20.23	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#99	21.28	20.28	23.00	PASS
Band48	20MHz	64QAM	55340	100RB#0	20.58	19.58	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#0	21.24	20.24	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#49	21.26	20.26	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#99	21.23	20.23	23.00	PASS
Band48	20MHz	64QAM	55990	100RB#0	20.6	19.6	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#0	20.96	19.96	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#49	21.05	20.05	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#99	21.15	20.15	23.00	PASS
Band48	20MHz	64QAM	56640	100RB#0	20.45	19.45	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#0	18.25	17.25	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#49	18.44	17.44	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#99	18.5	17.5	23.00	PASS
Band48	20MHz	256QAM	55340	100RB#0	18.62	17.62	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#0	18.41	17.41	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#49	18.49	17.49	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#99	18.38	17.38	23.00	PASS



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Report No.: SEWM2308000314RG01

Rev.: 01

Page: 8 of 62

Band48	20MHz	256QAM	55990	100RB#0	18.63	17.63	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#0	18.16	17.16	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#49	18.32	17.32	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#99	18.34	17.34	23.00	PASS
Band48	20MHz	256QAM	56640	100RB#0	18.47	17.47	23.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band48	20MHz	QPSK	55340	100RB#0	7.72	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	8.62	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	8.60	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	8.42	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	8.44	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	8.52	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	8.54	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	8.56	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	8.70	13	PASS
Band48	20MHz	256QAM	55340	100RB#0	8.60	13	PASS
Band48	20MHz	256QAM	55990	100RB#0	8.68	13	PASS
Band48	20MHz	256QAM	56640	100RB#0	8.66	13	PASS



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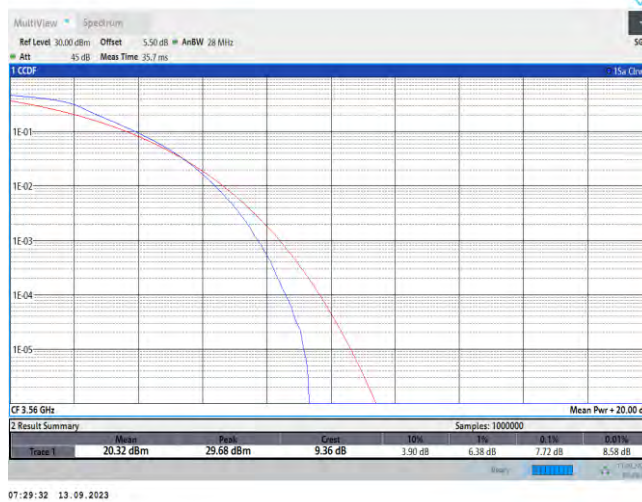
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Test Graphs

Band48-20MHz-QPSK-55340-100RB#0



Band48-20MHz-QPSK-55990-100RB#0

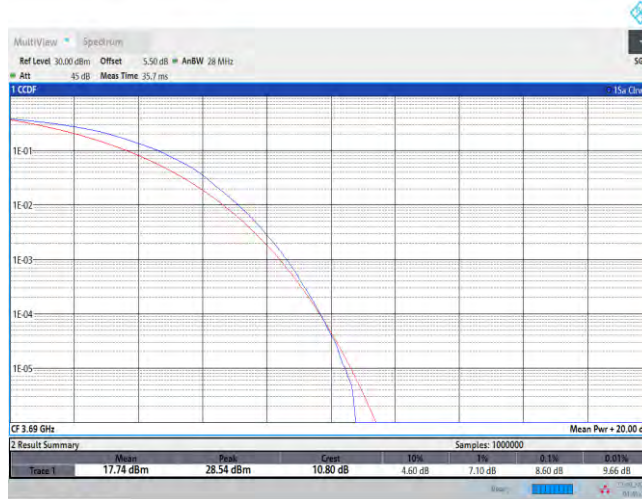


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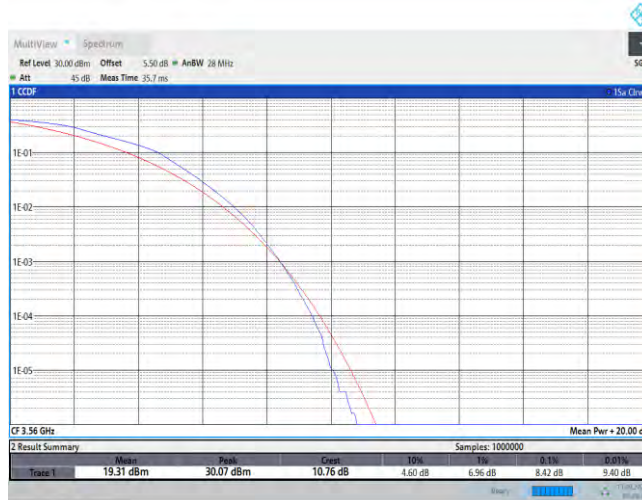
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Band48-20MHz-QPSK-56640-100RB#0



01:45:12 22.09.2023

Band48-20MHz-16QAM-55340-100RB#0



07:29:48 13.09.2023

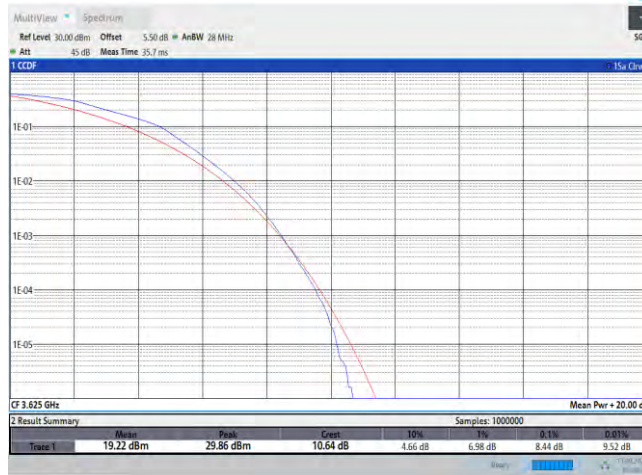


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Band48-20MHz-16QAM-55990-100RB#0



07:30:57 13.09.2023

Band48-20MHz-16QAM-56640-100RB#0



07:32:09 13.09.2023

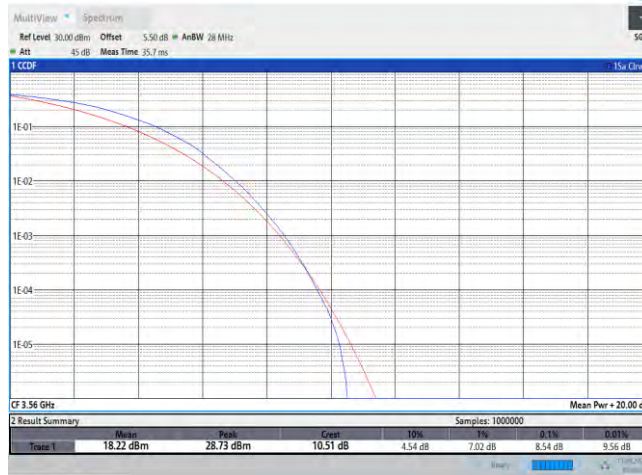


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Band48-20MHz-64QAM-55340-100RB#0



07:30:05 13.09.2023

Band48-20MHz-64QAM-55990-100RB#0



07:31:14 13.09.2023



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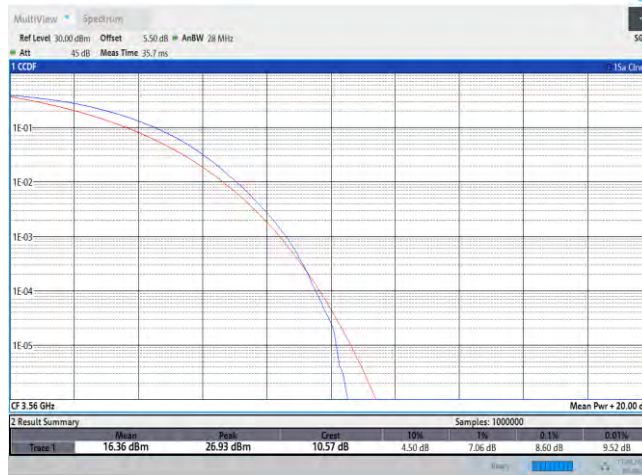
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Band48-20MHz-64QAM-56640-100RB#0



07:32:26 13.09.2023

Band48-20MHz-256QAM-55340-100RB#0



07:30:22 13.09.2023



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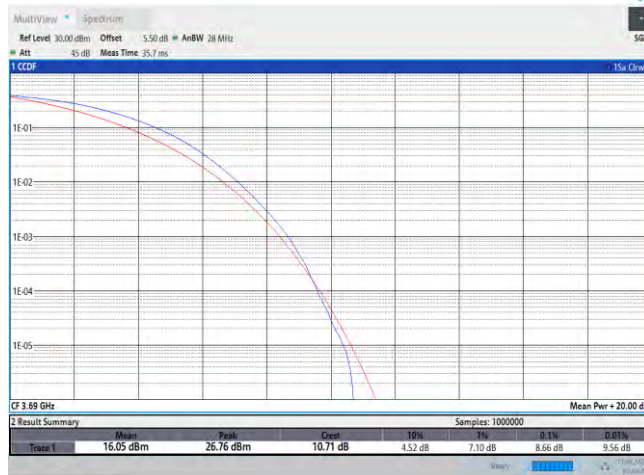
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Band48-20MHz-256QAM-55990-100RB#0



07:31:31 13.09.2023

Band48-20MHz-256QAM-56640-100RB#0



07:32:42 13.09.2023



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band48	5MHz	QPSK	55990	25RB#0	4.481	5.23	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.5	5.19	PASS
Band48	5MHz	64QAM	55990	25RB#0	4.5	5.05	PASS
Band48	5MHz	256QAM	55990	25RB#0	4.485	5.43	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.98	9.83	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.972	9.93	PASS
Band48	10MHz	64QAM	55990	50RB#0	9.002	10.33	PASS
Band48	10MHz	256QAM	55990	50RB#0	8.963	9.87	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.493	16.35	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.466	14.85	PASS
Band48	15MHz	64QAM	55990	75RB#0	13.451	16.60	PASS
Band48	15MHz	256QAM	55990	75RB#0	13.461	14.80	PASS
Band48	20MHz	QPSK	55990	100RB#0	18.048	21.07	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.996	20.93	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.988	22.27	PASS
Band48	20MHz	256QAM	55990	100RB#0	17.976	19.73	PASS



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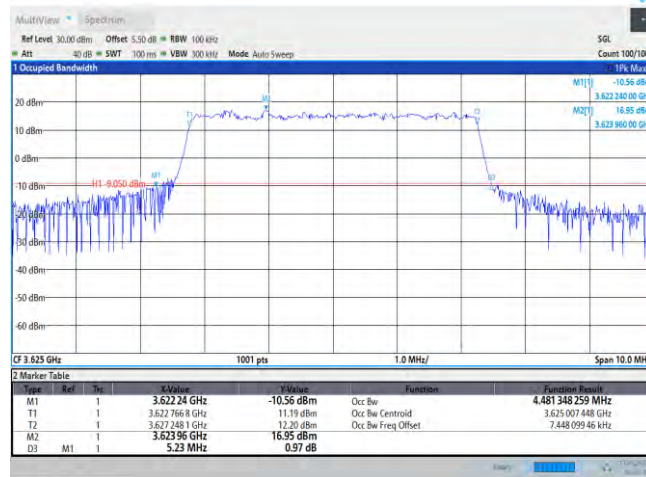
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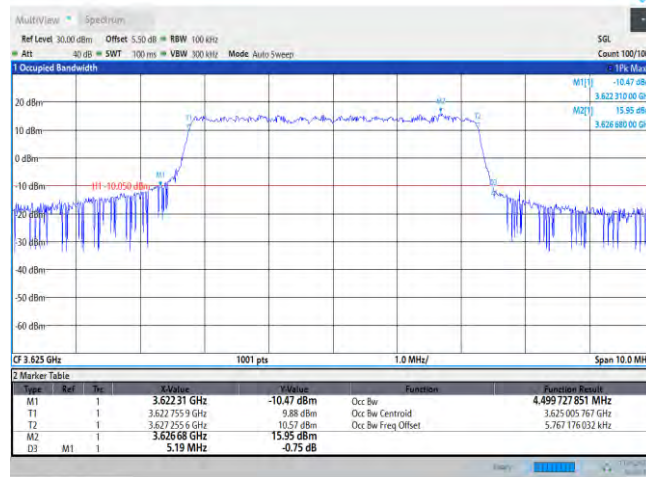


Test Graphs

Band48-5MHz-QPSK-55990-25RB#0



Band48-5MHz-16QAM-55990-25RB#0

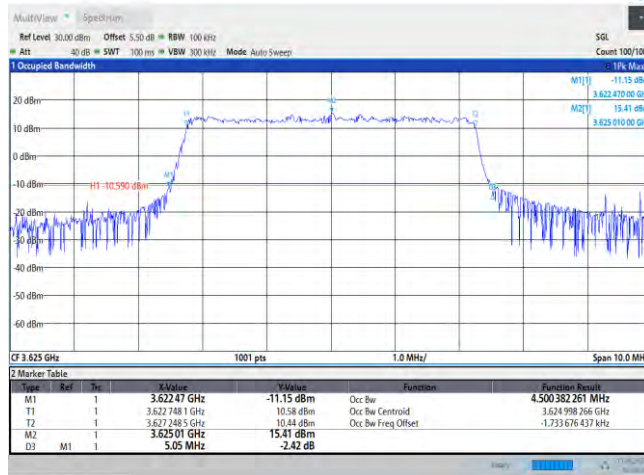


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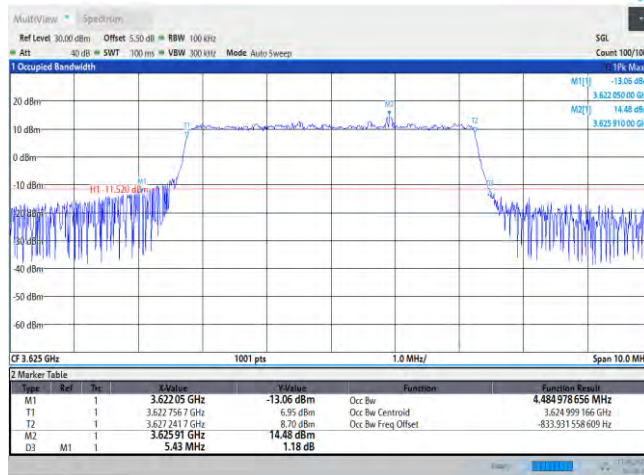
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Band48-5MHz-64QAM-55990-25RB#0



02:28:09 13.09.2023

Band48-5MHz-256QAM-55990-25RB#0



02:28:35 13.09.2023



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Band48-10MHz-QPSK-55990-50RB#0



03:43:24 13.09.2023

Band48-10MHz-16QAM-55990-50RB#0



03:43:44 13.09.2023



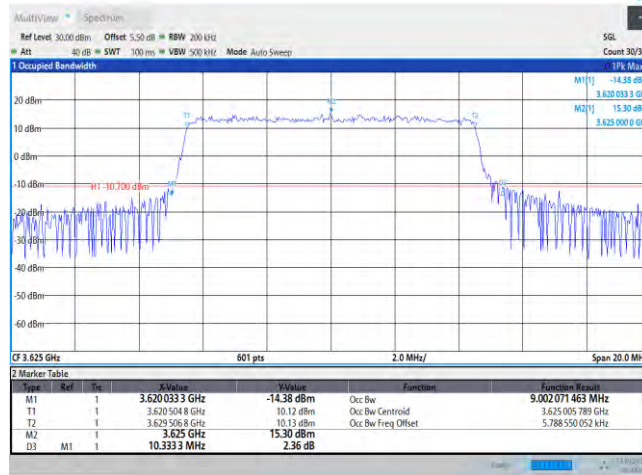
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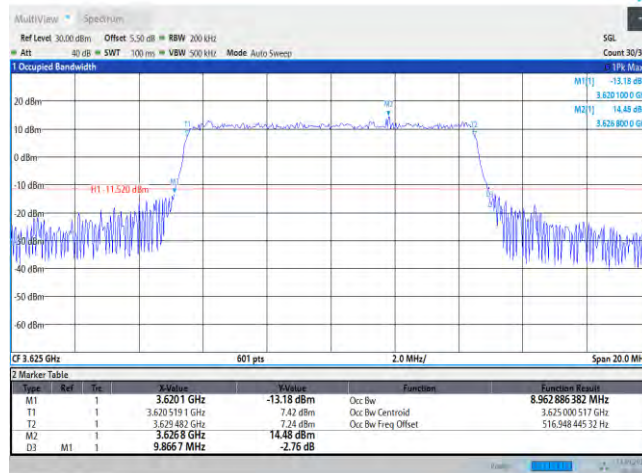
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03:44:03 13. 09. 2023

Band48-10MHz-256QAM-55990-50RB#0



03:44:22 13. 09. 2023



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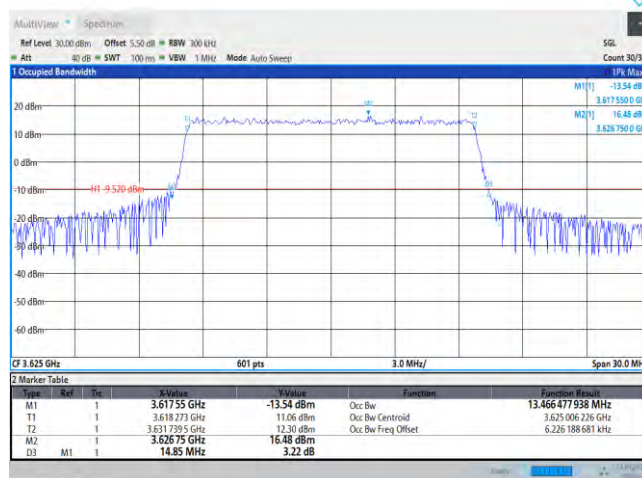
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Band48-15MHz-QPSK-55990-75RB#0



04:59:14 13.09.2023

Band48-15MHz-16QAM-55990-75RB#0



04:59:33 13.09.2023

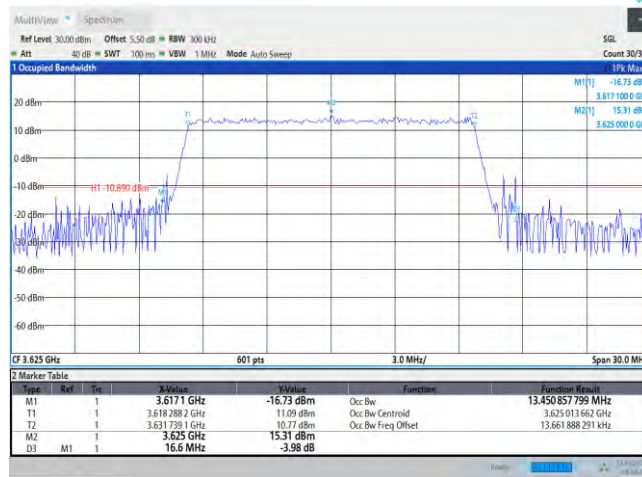


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Band48-15MHz-64QAM-55990-75RB#0



04:59:52 13.09.2023

Band48-15MHz-256QAM-55990-75RB#0



05:00:11 13.09.2023

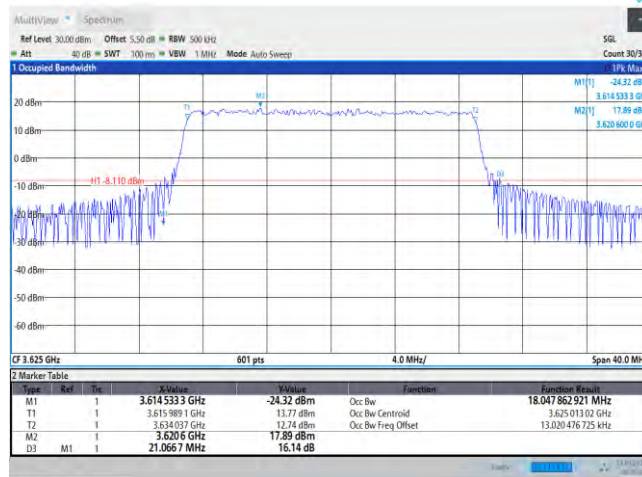


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Band48-20MHz-QPSK-55990-100RB#0



06:15:05 13.09.2023

Band48-20MHz-16QAM-55990-100RB#0



06:15:23 13.09.2023



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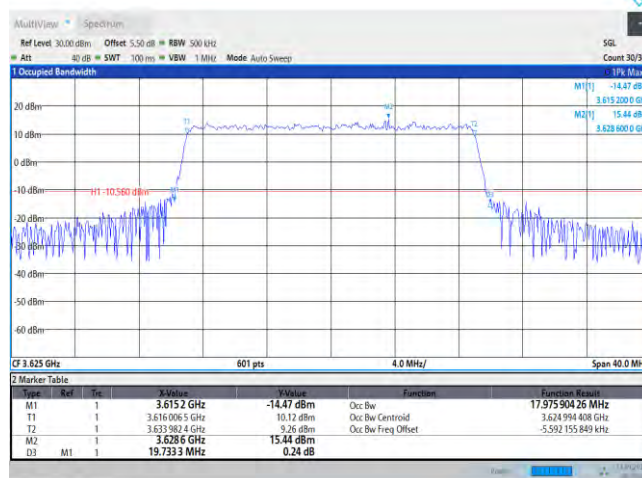
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Band48-20MHz-64QAM-55990-100RB#0



06:15:42 13. 09. 2023

Band48-20MHz-256QAM-55990-100RB#0



06:16:01 13. 09. 2023



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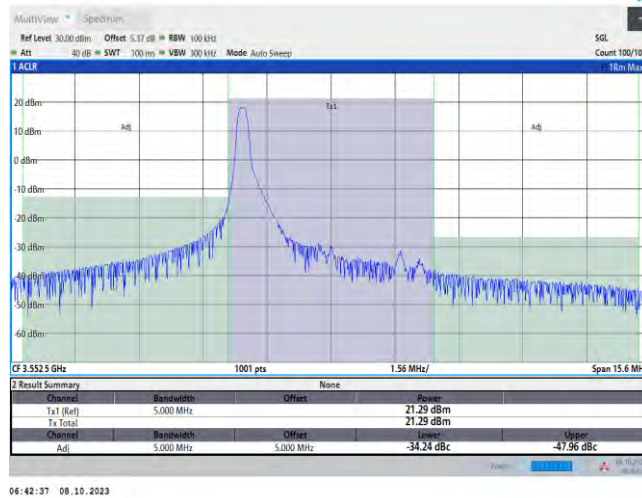
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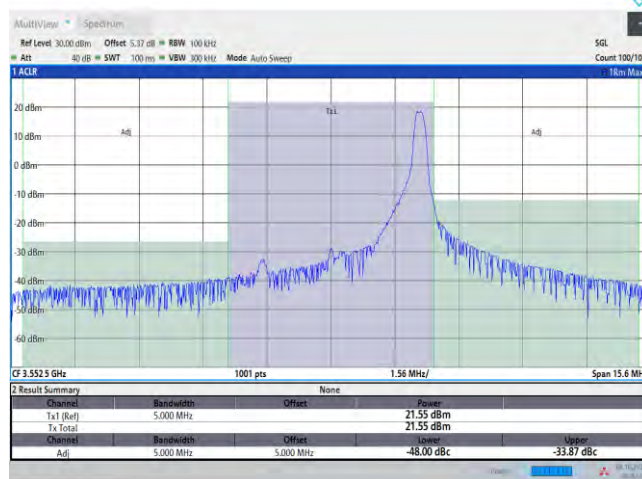
## Test Graphs

Band48-5MHz-QPSK-55265-1RB#0



06:42:37 08.10.2023

Band48-5MHz-QPSK-55265-1RB#24



06:42:59 08.10.2023



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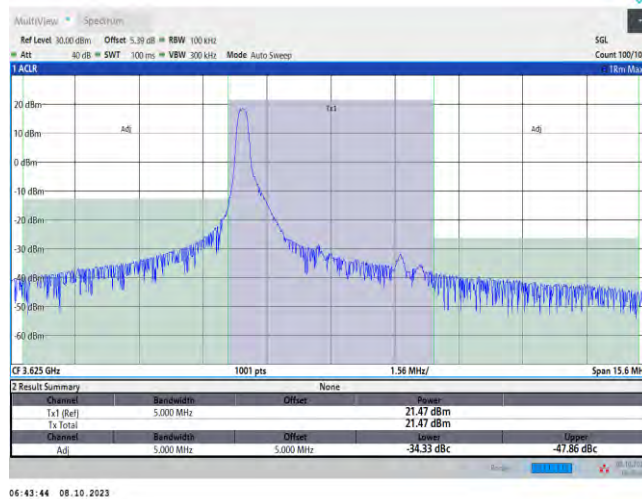
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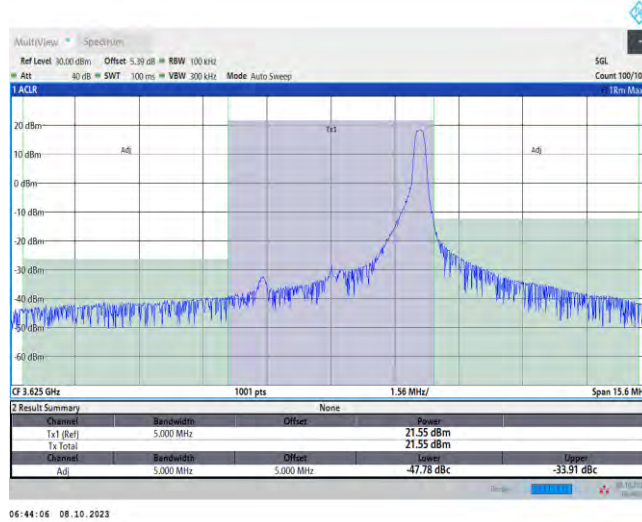
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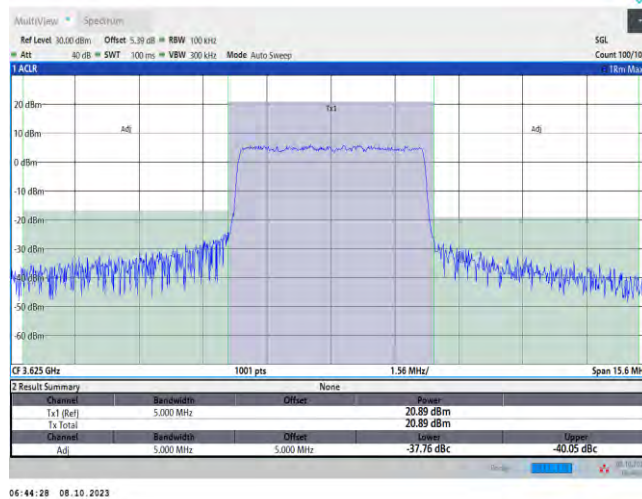
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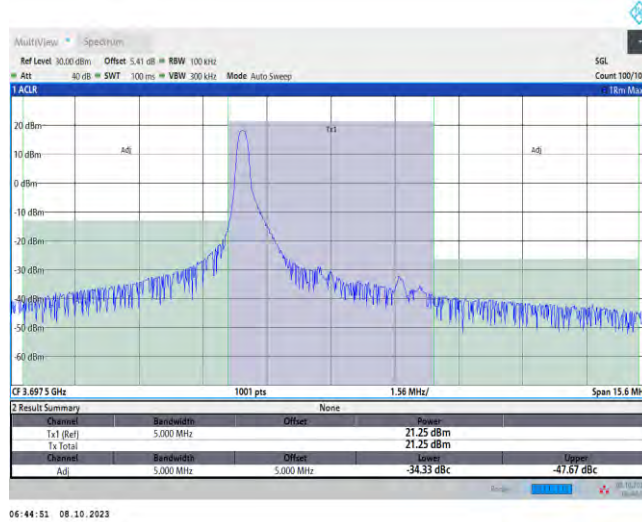
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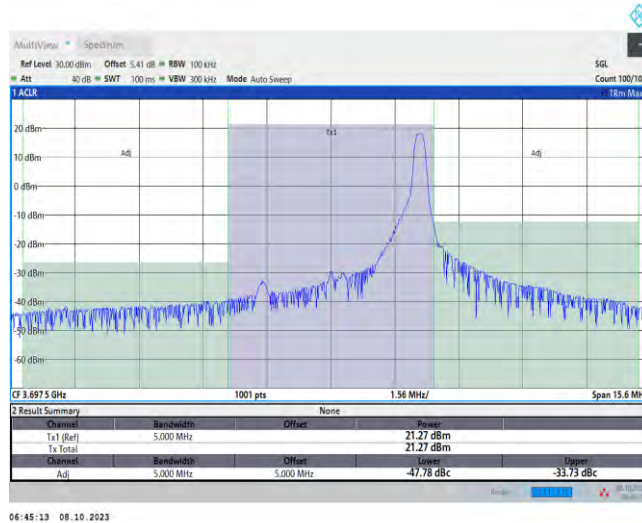
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Band48-5MHz-QPSK-56715-1RB#24



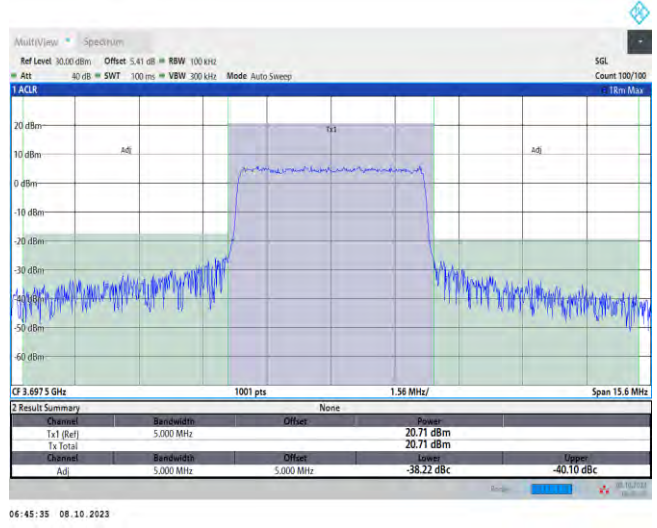
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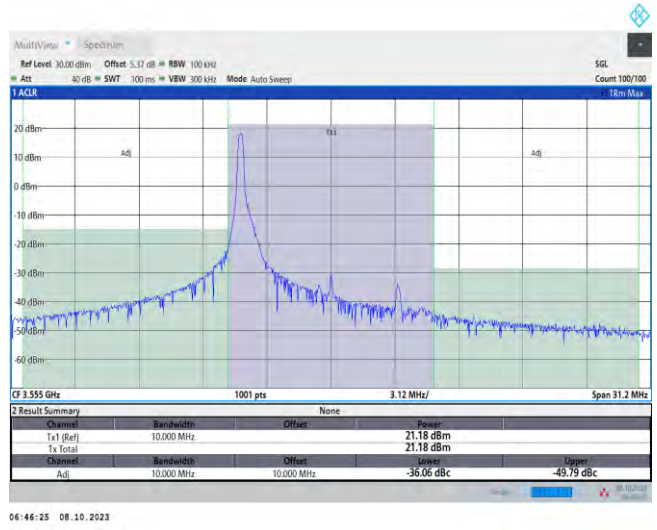
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Band48-10MHz-QPSK-55290-1RB#0

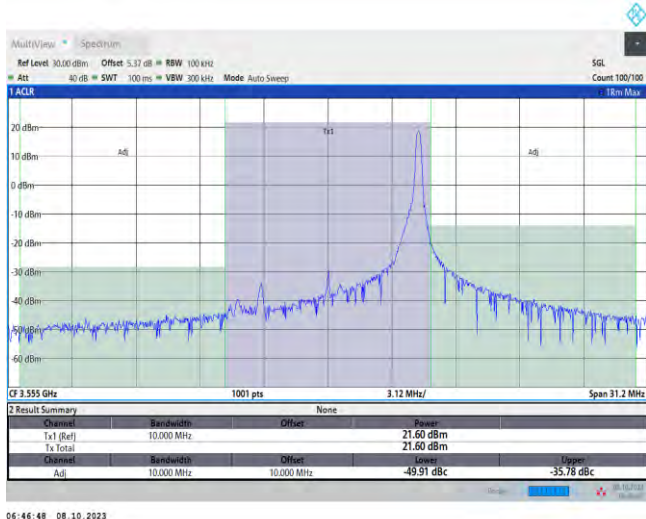


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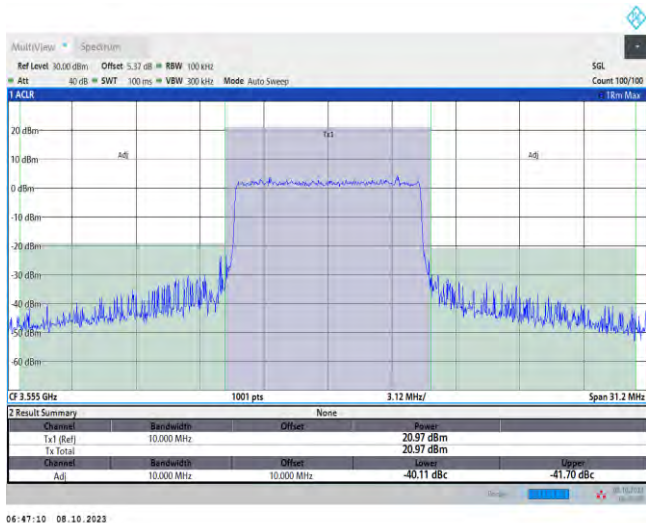
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Band48-10MHz-QPSK-55290-1RB#49



Band48-10MHz-QPSK-55290-50RB#0

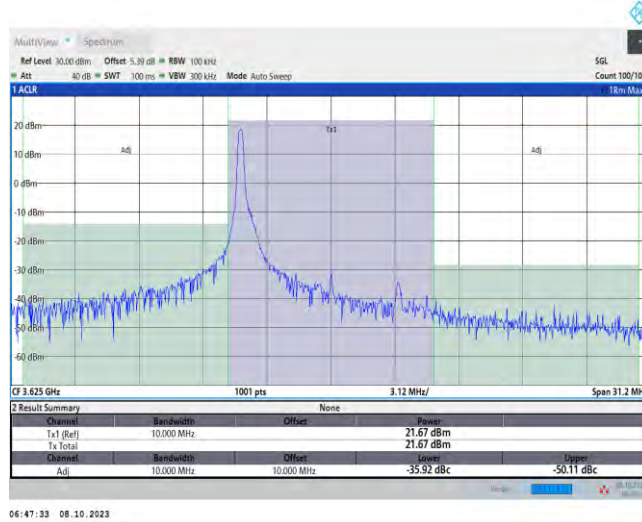


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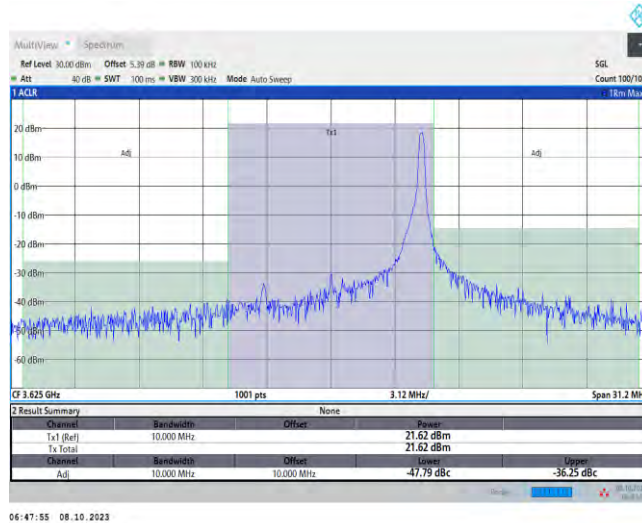
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Band48-10MHz-QPSK-55990-1RB#0



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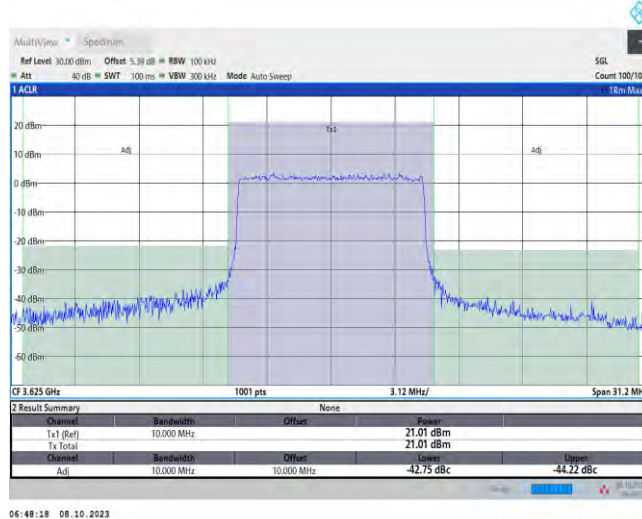
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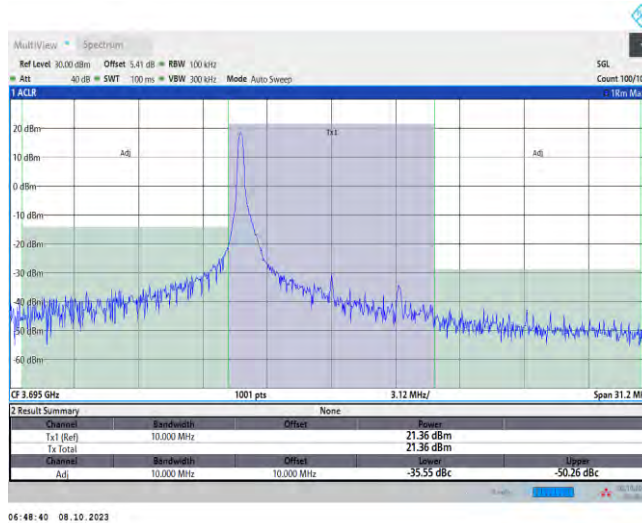
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Band48-10MHz-QPSK-55990-50RB#0



Band48-10MHz-QPSK-56690-1RB#0



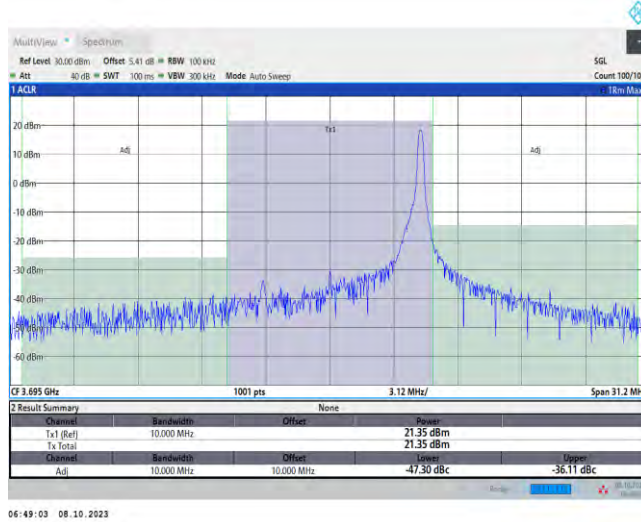
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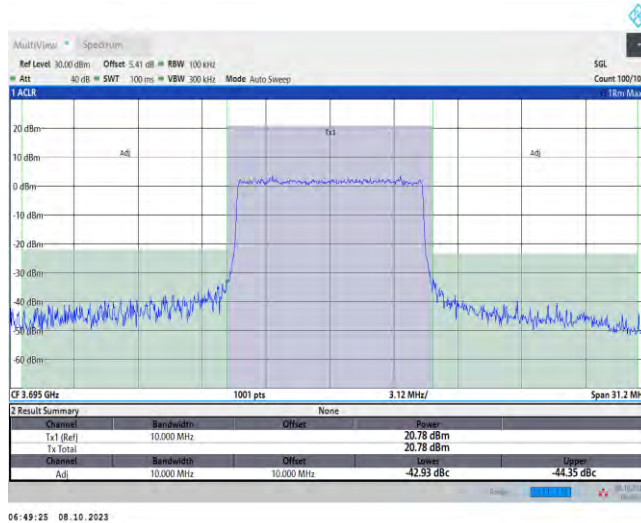
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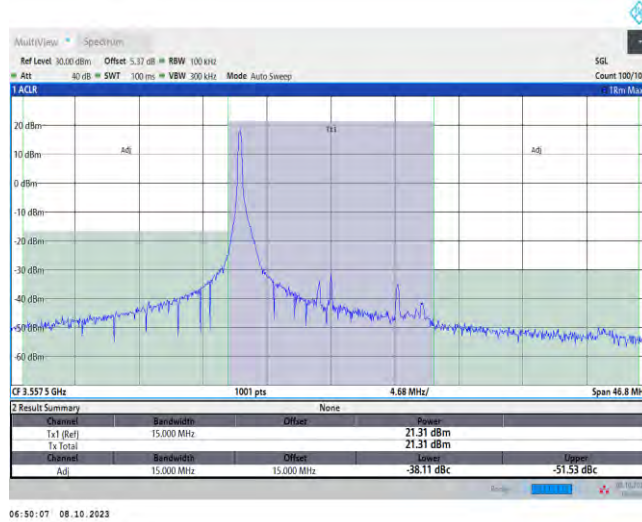
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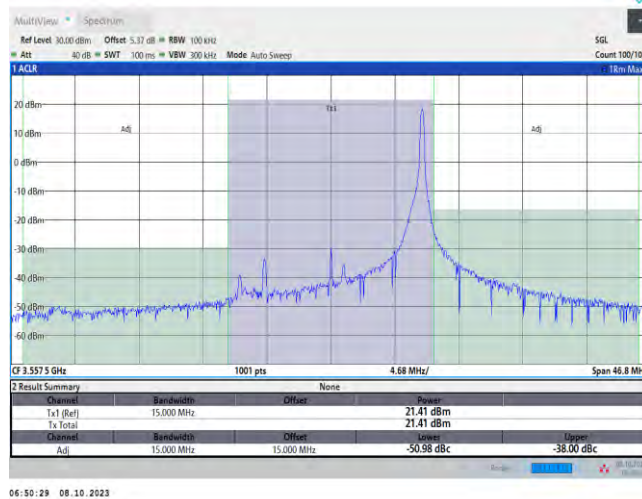
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Band48-15MHz-QPSK-55315-1RB#0



Band48-15MHz-QPSK-55315-1RB#74

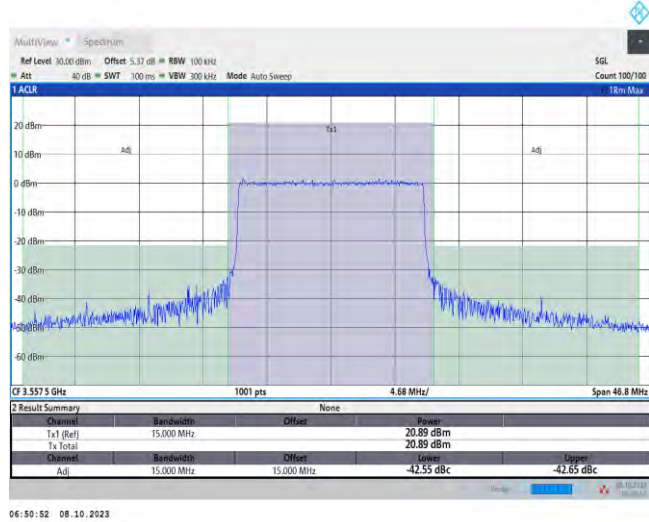


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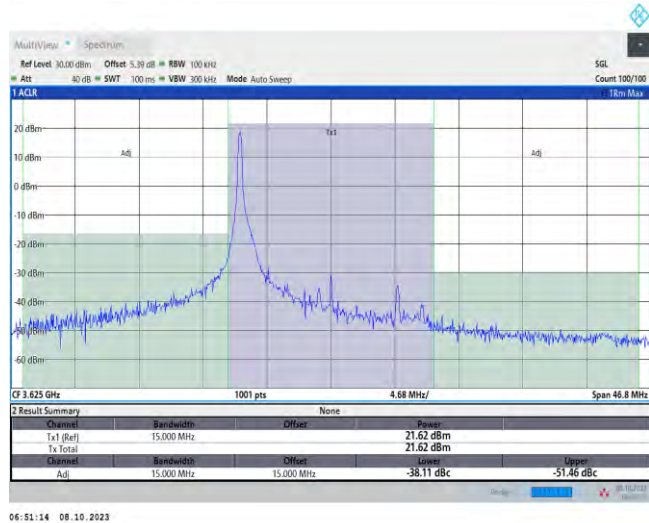
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Band48-15MHz-QPSK-55315-75RB#0



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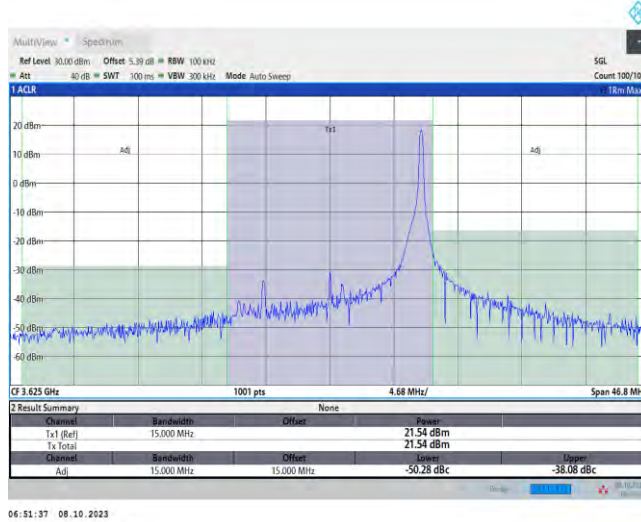


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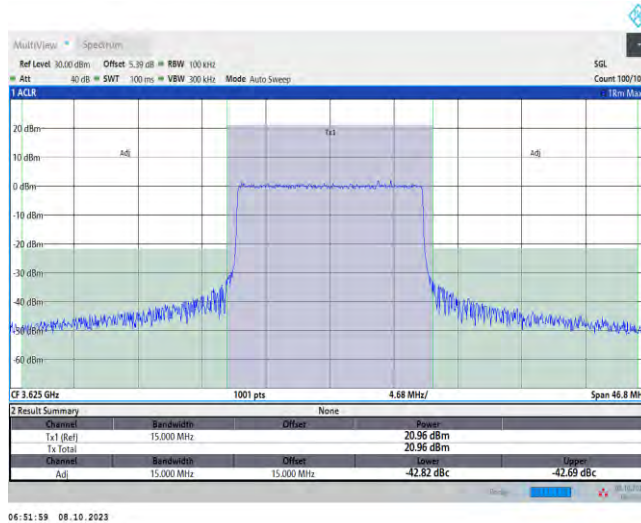
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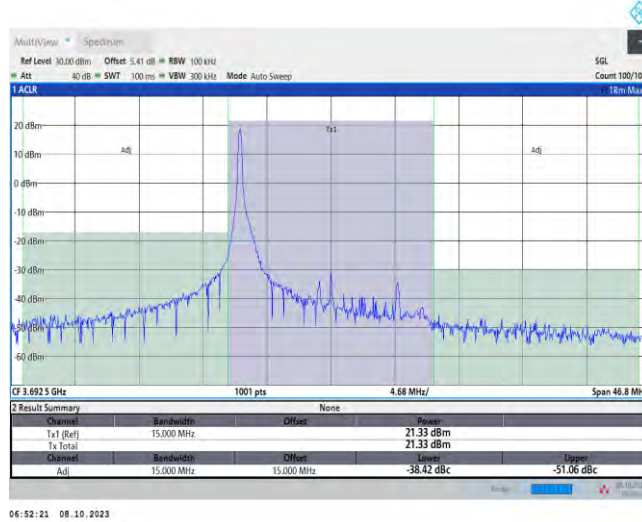


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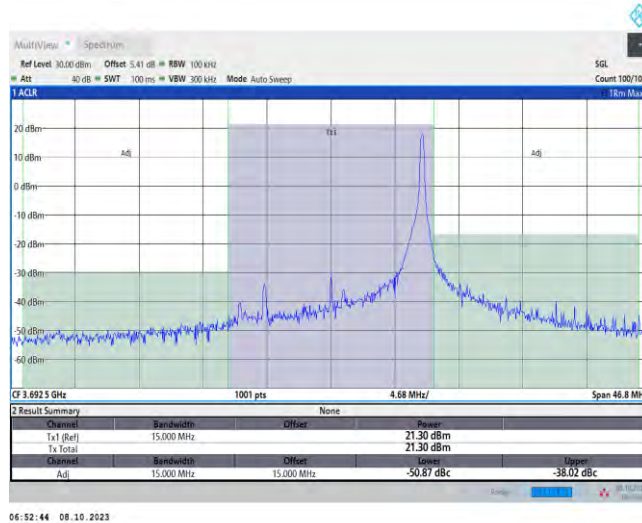
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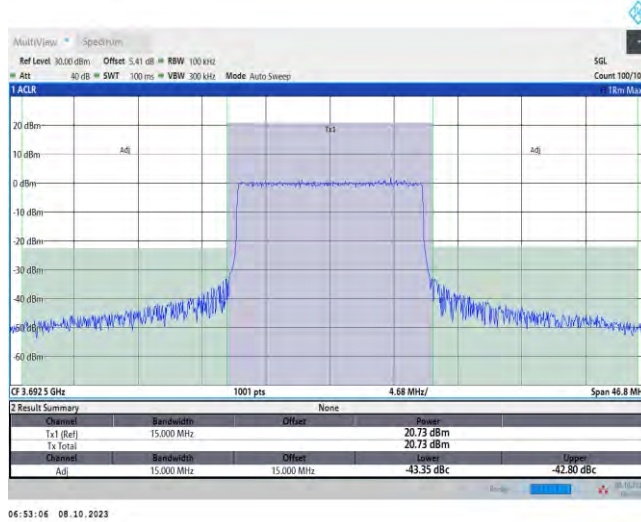


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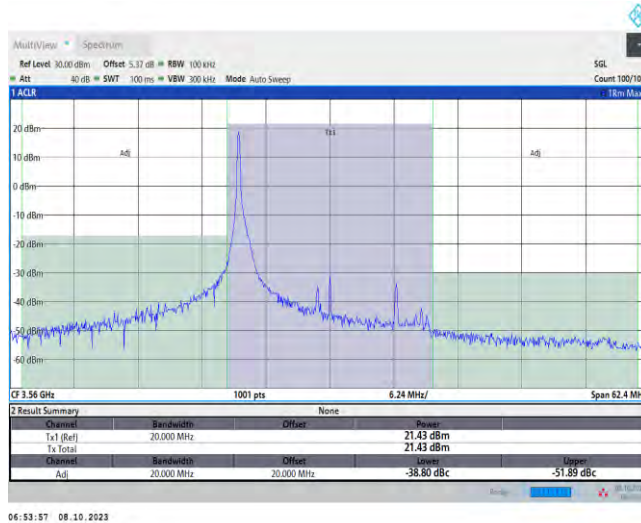
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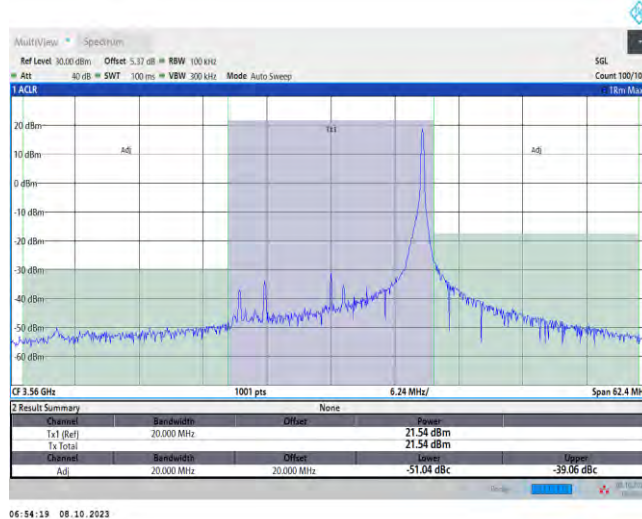


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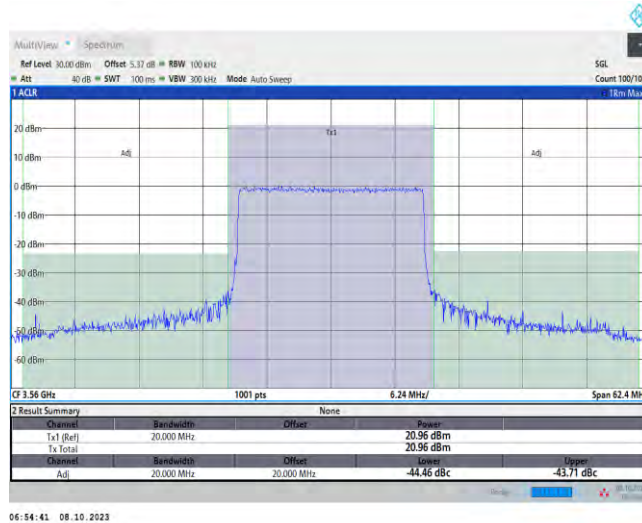
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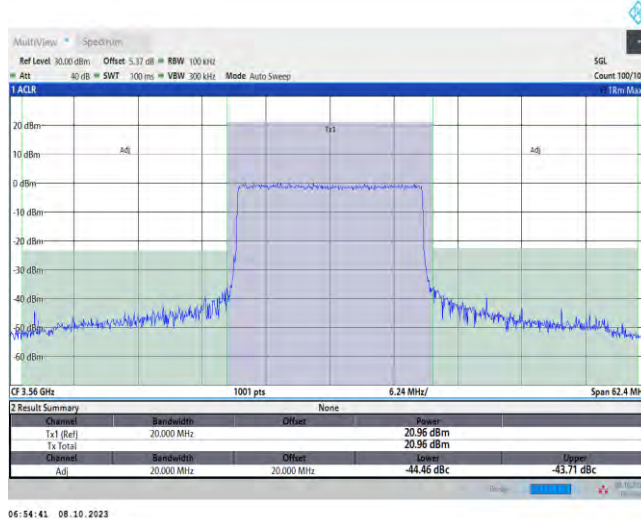


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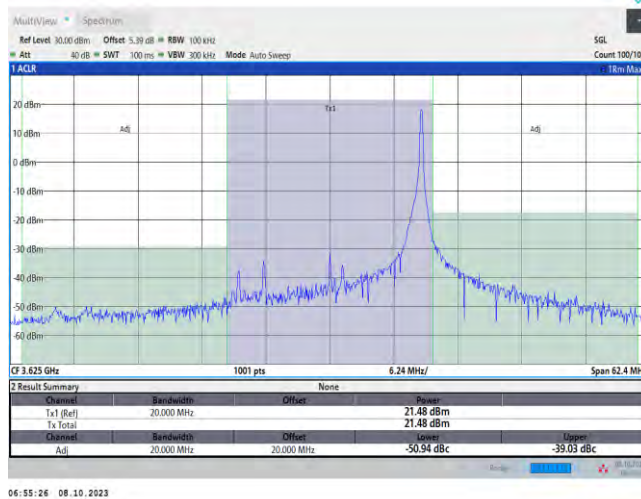
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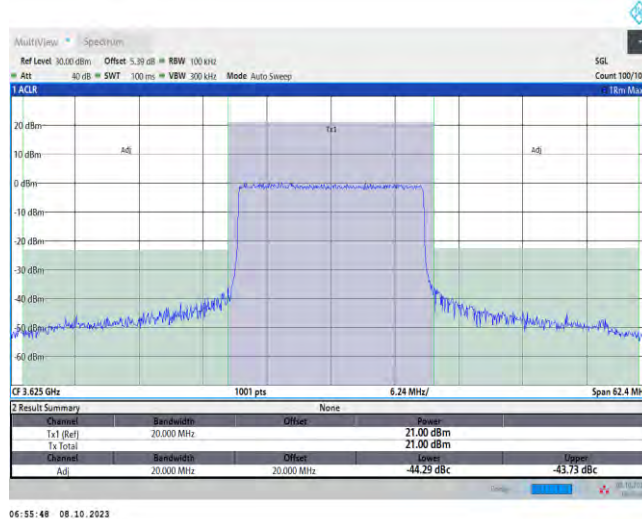
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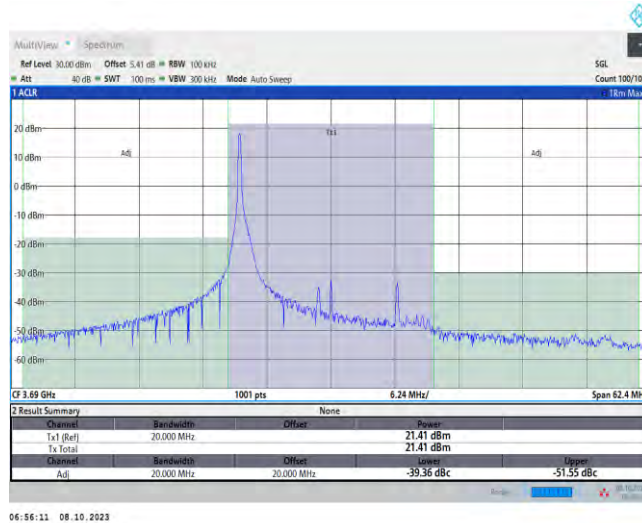
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Band48-20MHz-QPSK-55990-100RB#0



Band48-20MHz-QPSK-56640-1RB#0

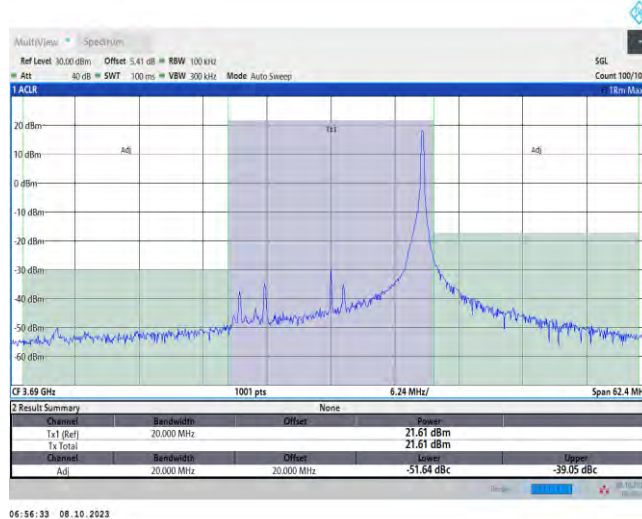


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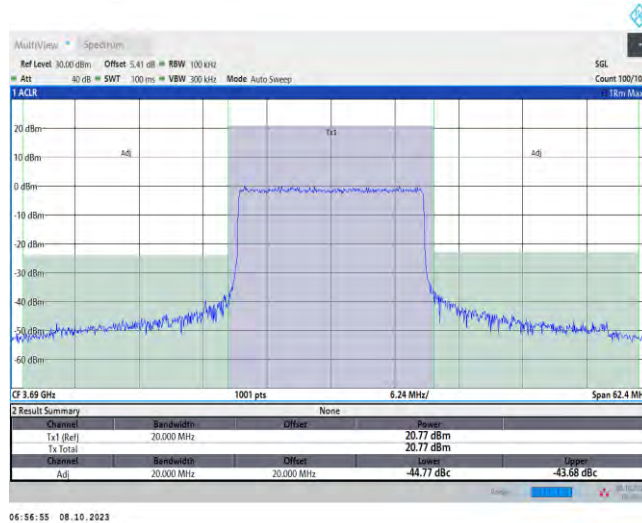
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Band48-20MHz-QPSK-56640-1RB#99



Band48-20MHz-QPSK-56640-100RB#0



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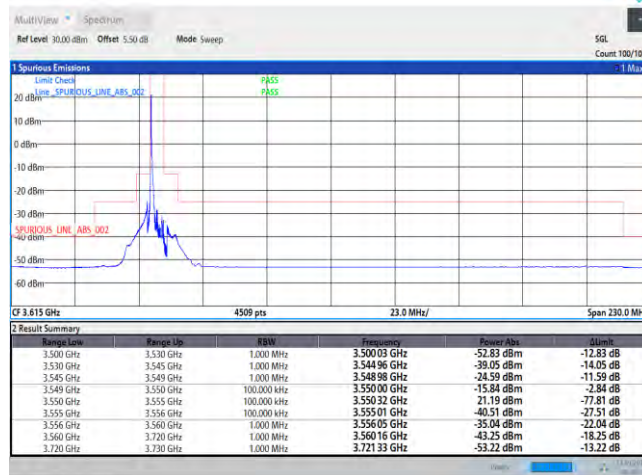
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## Band Edge

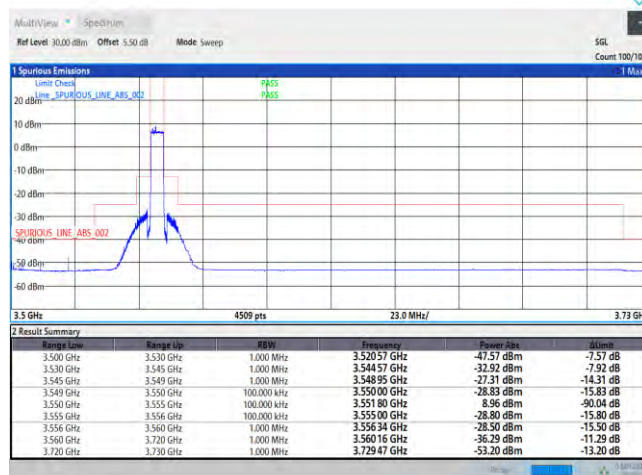
## Test Graphs

Band48-5MHz-QPSK-55265-1RB#0



02:44:16 13. 09. 2023

Band48-5MHz-QPSK-55265-25RB#0



02:59:32 13. 09. 2023



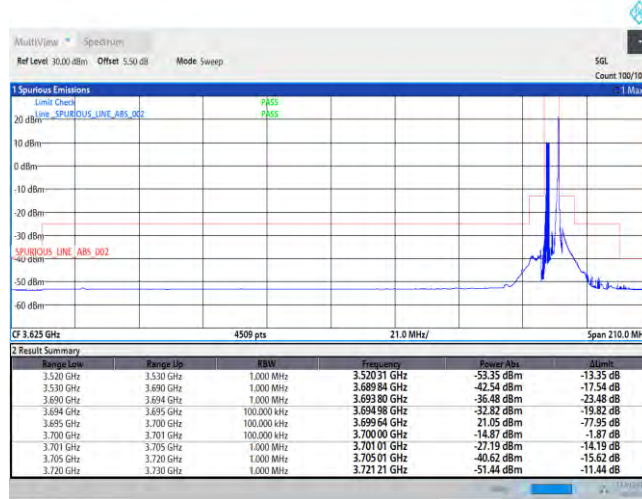
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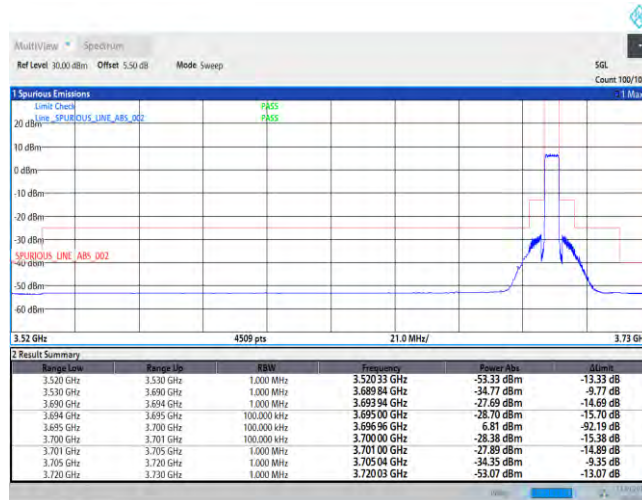
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Band48-5MHz-QPSK-56715-1RB#24



03:15:14 13. 09. 2023

Band48-5MHz-QPSK-56715-25RB#0



03:30:33 13. 09. 2023

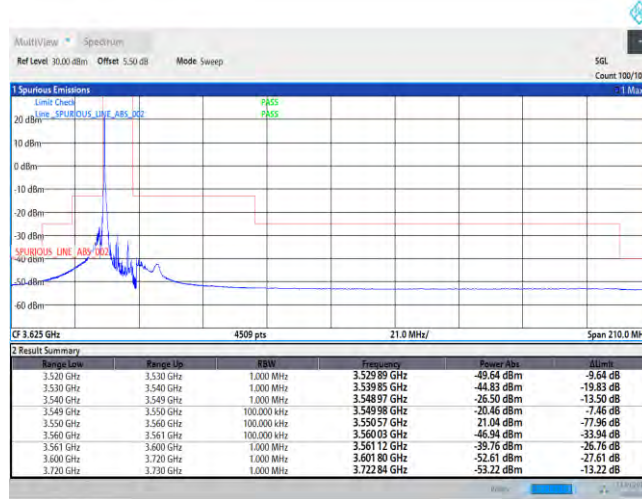


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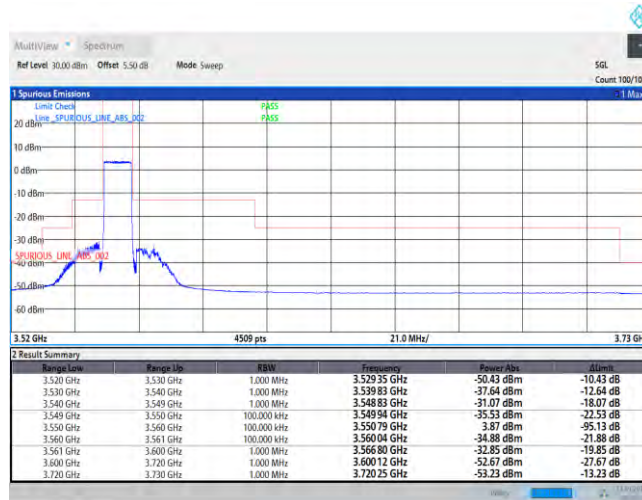
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Band48-10MHz-QPSK-55290-1RB#0



04:00:00 13. 09. 2023

Band48-10MHz-QPSK-55290-50RB#0



04:15:17 13. 09. 2023

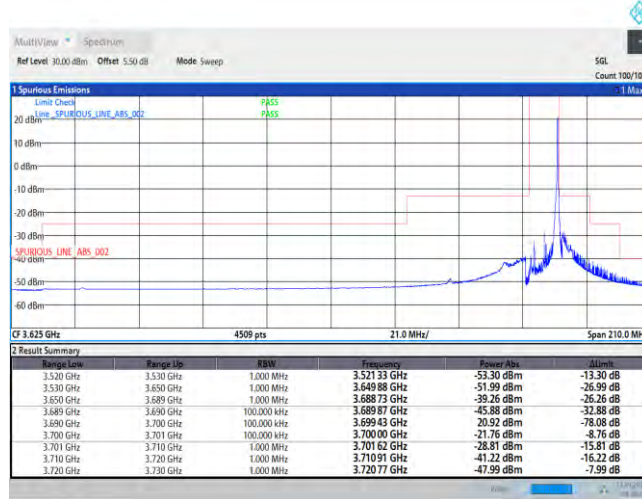


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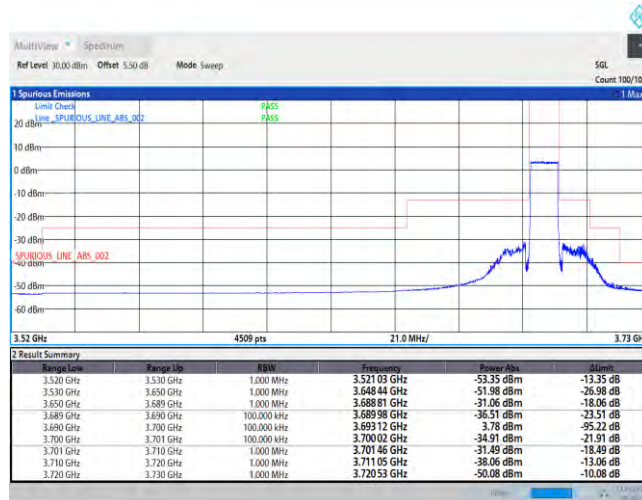
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Band48-10MHz-QPSK-56690-1RB#49



04:30:59 13. 09. 2023

Band48-10MHz-QPSK-56690-50RB#0



04:46:16 13. 09. 2023

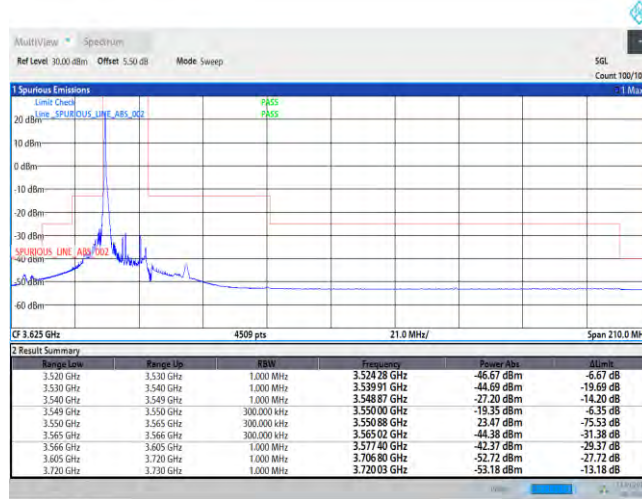


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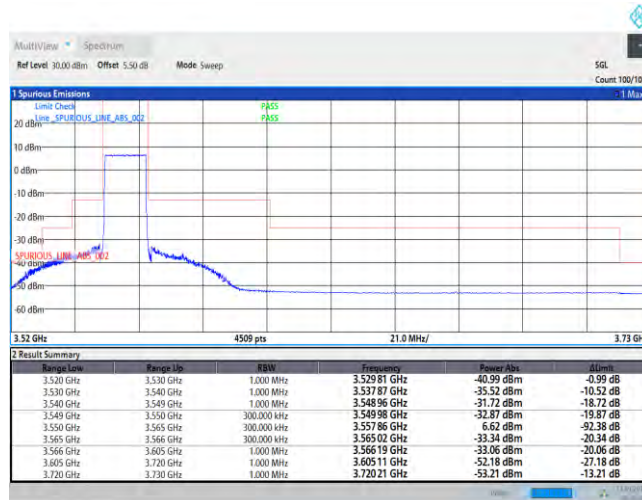
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Band48-15MHz-QPSK-55315-1RB#0



05:15:52 13. 09. 2023

Band48-15MHz-QPSK-55315-75RB#0



05:31:09 13. 09. 2023

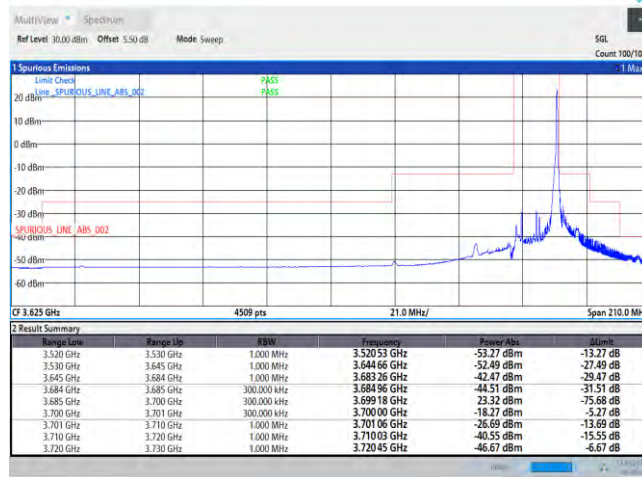


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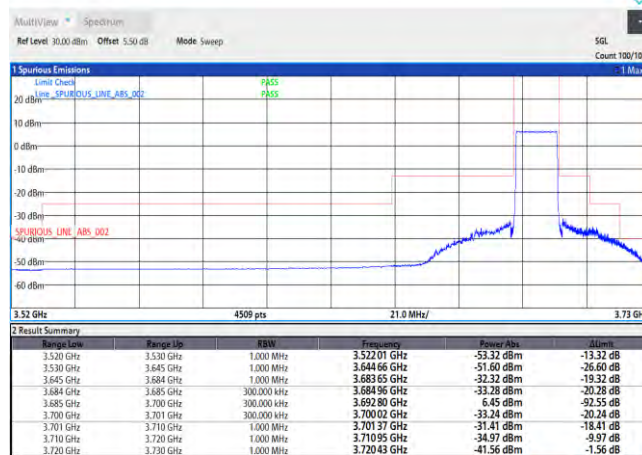
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Band48-15MHz-QPSK-56665-1RB#74



05:46:50 13. 09. 2023

Band48-15MHz-QPSK-56665-75RB#0



06:02:08 13. 09. 2023



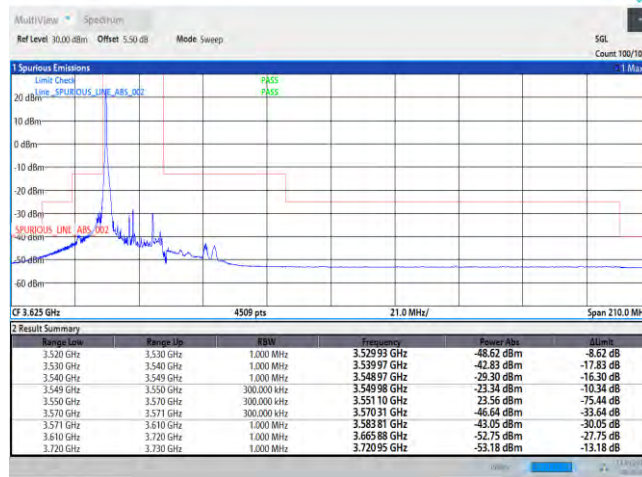
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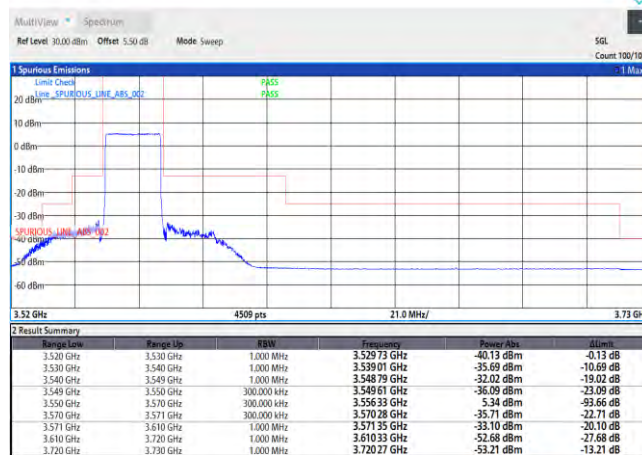


Band48-20MHz-QPSK-55340-1RB#0



06:31:41 13. 09. 2023

Band48-20MHz-QPSK-55340-100RB#0



06:46:58 13. 09. 2023



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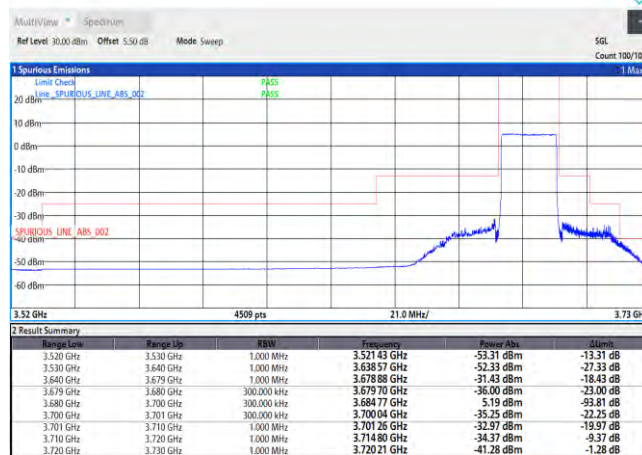
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Band48-20MHz-QPSK-56640-1RB#99



07:02:37 13. 09. 2023

Band48-20MHz-QPSK-56640-100RB#0



07:17:54 13. 09. 2023



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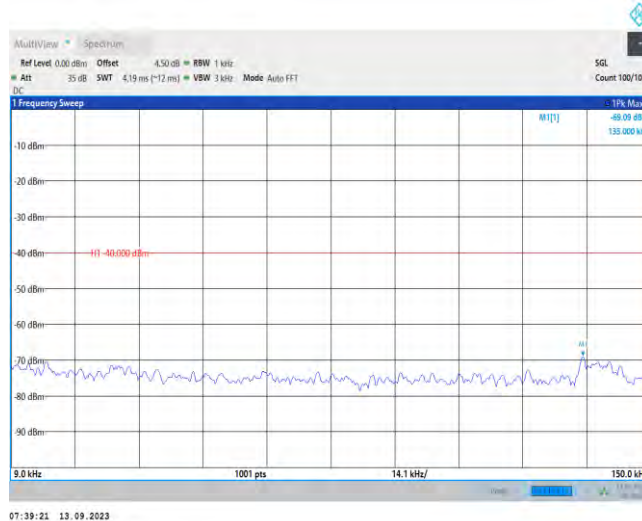
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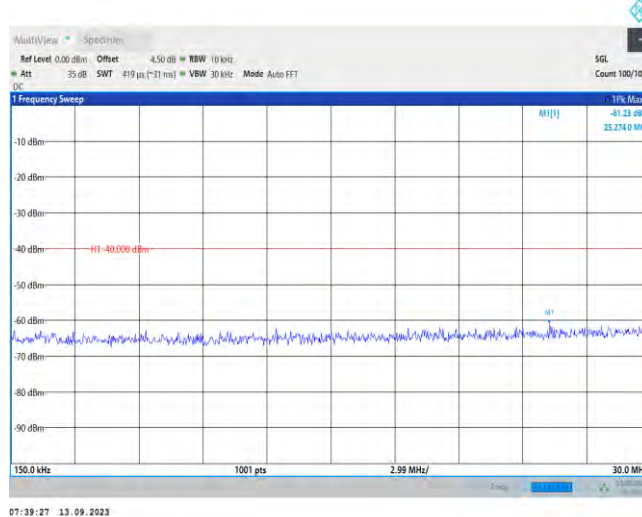
## Conducted Spurious Emission

### Test Graphs

Band48-20MHz-QPSK-55340-1RB#0-Range1:0.009~0.15MHz



Band48-20MHz-QPSK-55340-1RB#0-Range2:0.15~30MHz



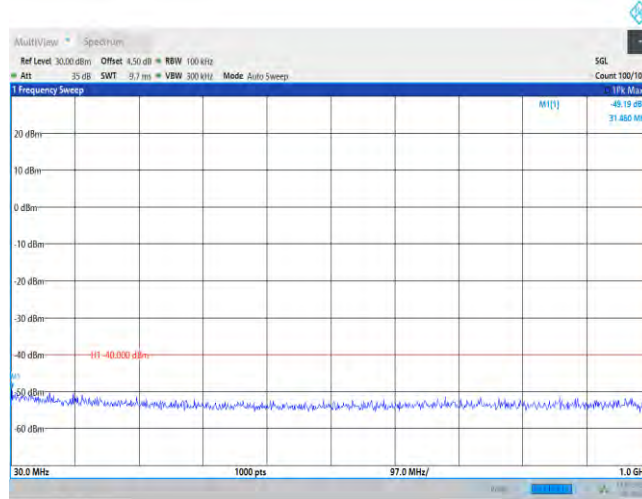
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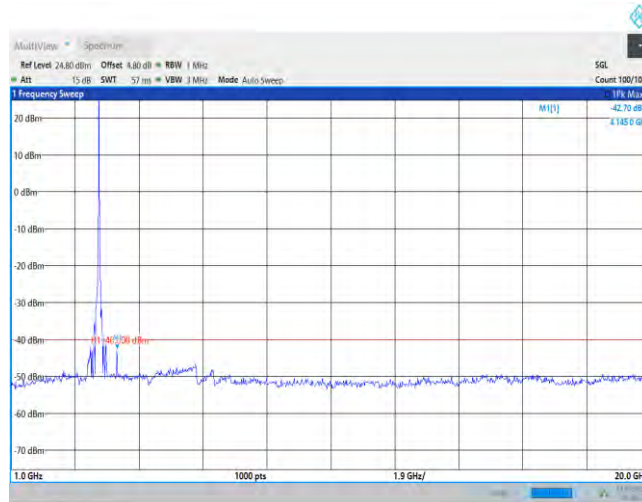
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Band48-20MHz-QPSK-55340-1RB#0-Range3:30~1000MHz



Band48-20MHz-QPSK-55340-1RB#0-Range4:1000~20000MHz

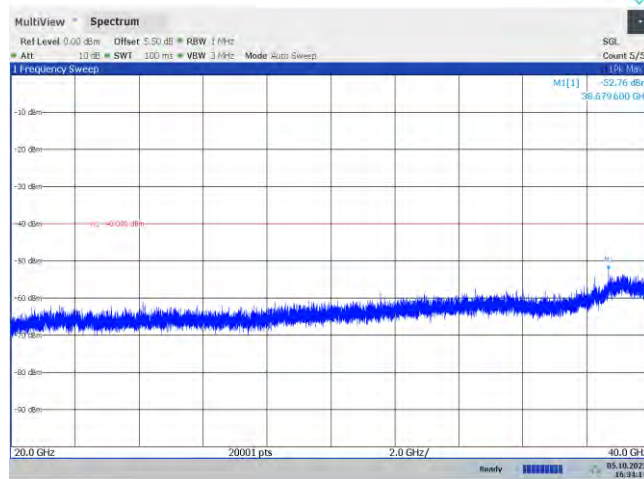


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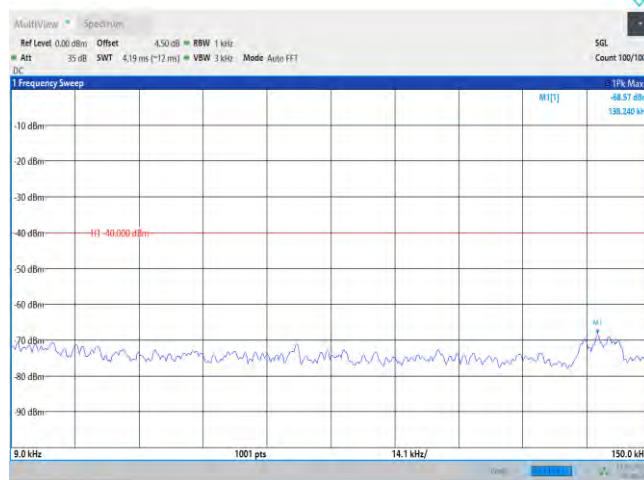
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Band48-20MHz-QPSK-55340-1RB#0-Range5:20000~38000MHz



Band48-20MHz-QPSK-55990-1RB#0-Range1:0.009~0.15MHz

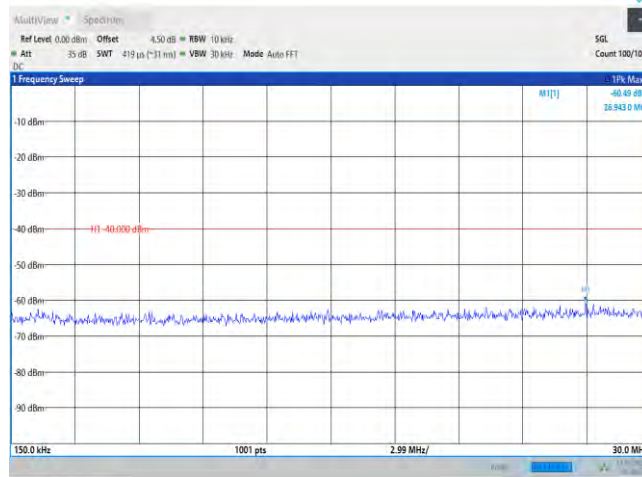


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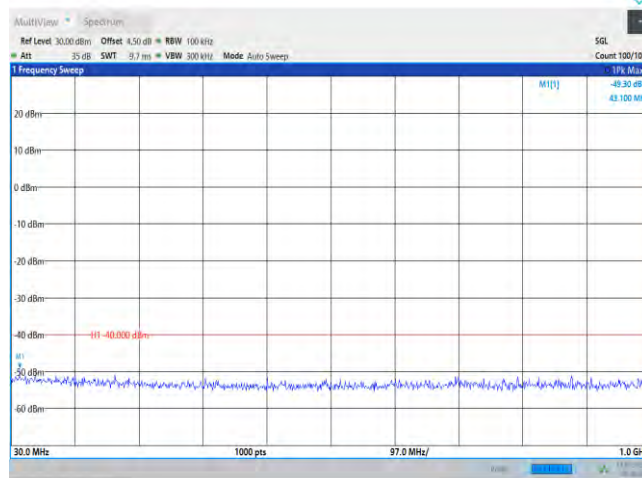
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Band48-20MHz-QPSK-55990-1RB#0-Range2:0.15~30MHz



07:40:38 13.09.2023

Band48-20MHz-QPSK-55990-1RB#0-Range3:30~1000MHz



07:40:43 13.09.2023

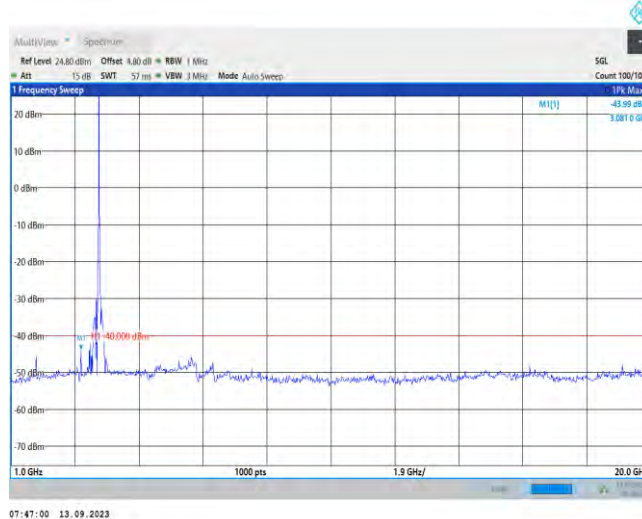


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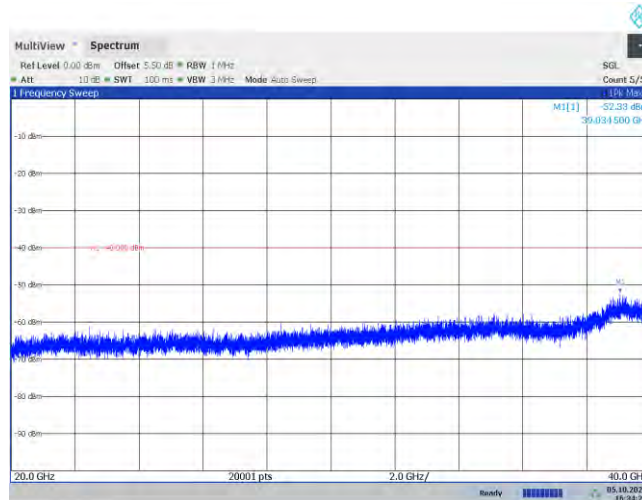
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Band48-20MHz-QPSK-55990-1RB#0-Range4:1000~20000MHz



07:47:00 13.09.2023

Band48-20MHz-QPSK-55990-1RB#0-Range5:20000~38000MHz



16:34:22 05.10.2023

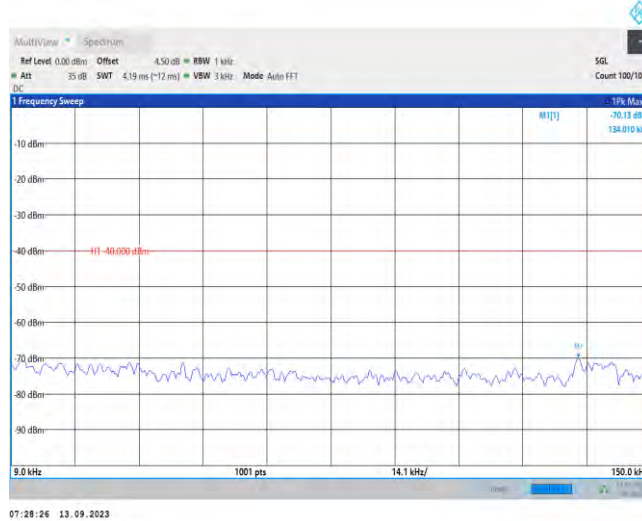


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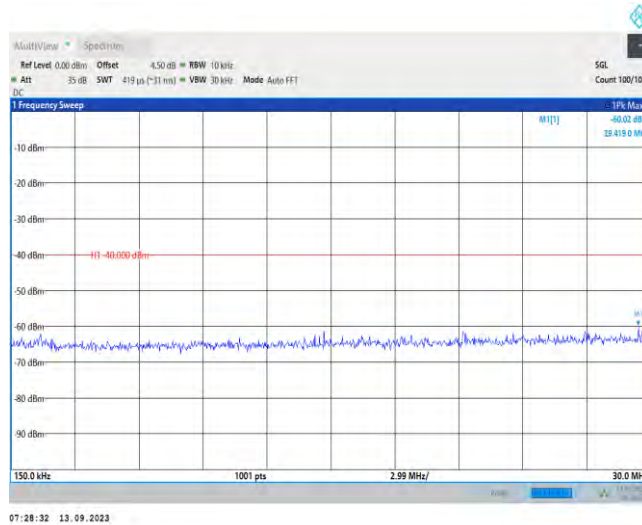
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Band48-20MHz-QPSK-56640-1RB#0-Range1:0.009~0.15MHz



Band48-20MHz-QPSK-56640-1RB#0-Range2:0.15~30MHz



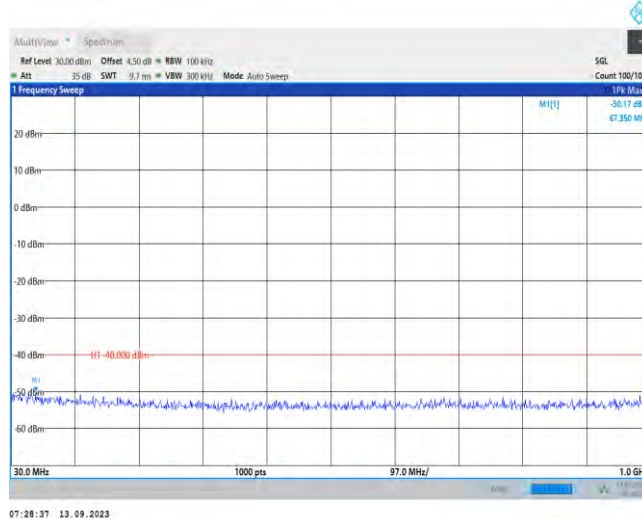
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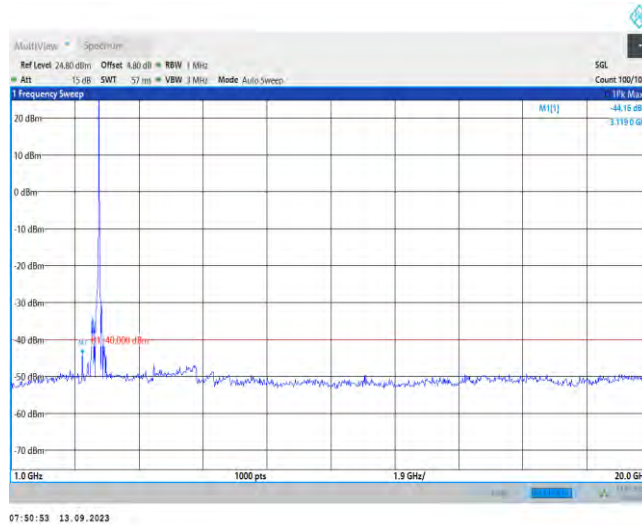
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Band48-20MHz-QPSK-56640-1RB#0-Range3:30~1000MHz



Band48-20MHz-QPSK-56640-1RB#0-Range4:1000~20000MHz

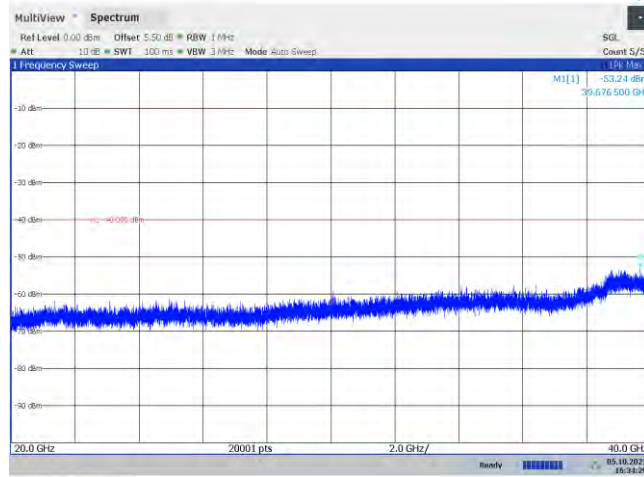


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Band48-20MHz-QPSK-56640-1RB#0-Range5:20000~38000MHz



16:34:29 05.10.2023



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## Field Strength of Spurious Radiation

Test Band = LTE Band 48\_20MHz\_TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8809.1042	34.54	-34.94	37.50	-58.15	-40.00	18.15	Horizontal
2	12844.6458	31.58	-29.78	39.41	-54.05	-40.00	14.05	Horizontal
3	7102.18	34.76	-37.81	36.12	-62.18	-40.00	22.18	Horizontal
4	10653.27	29.84	-31.21	38.23	-58.41	-40.00	18.41	Horizontal
5	14204.36	29.22	-29.69	40.26	-55.47	-40.00	15.47	Horizontal
6	17755.45	27.04	-24.04	40.71	-51.55	-40.00	11.55	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8530.7083	35.14	-35.61	37.37	-58.37	-40.00	18.37	Vertical
2	12088.0417	31.16	-29.39	38.51	-54.99	-40.00	14.99	Vertical
3	7102.18	35.69	-37.81	36.12	-61.25	-40.00	21.25	Vertical
4	10653.27	29.38	-31.21	38.23	-58.87	-40.00	18.87	Vertical
5	14204.36	28.97	-29.69	40.26	-55.72	-40.00	15.72	Vertical
6	17755.45	27.51	-24.04	40.71	-51.08	-40.00	11.08	Vertical



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**Test Band = LTE Band 48\_20MHz\_TM1**

**Test Channel = Mid Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8943.75	34.39	-34.96	37.57	-58.25	-40.00	18.25	Horizontal
2	12762.2292	31.05	-29.73	39.31	-54.63	-40.00	14.63	Horizontal
3	17586.9583	29.09	-24.56	40.31	-50.42	-40.00	10.42	Horizontal
4	7232.18	34.00	-37.79	36.28	-62.77	-40.00	22.77	Horizontal
5	10848.27	29.41	-30.69	38.32	-58.22	-40.00	18.22	Horizontal
6	14464.36	27.78	-28.99	40.21	-56.27	-40.00	16.27	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	9024.7292	34.14	-34.58	37.61	-58.09	-40.00	18.09	Vertical
2	13642.9375	31.40	-28.95	40.05	-52.76	-40.00	12.76	Vertical
3	17953.5208	29.38	-24.59	41.19	-49.28	-40.00	9.28	Vertical
4	7232.18	35.11	-37.79	36.28	-61.66	-40.00	21.66	Vertical
5	10848.27	29.01	-30.69	38.32	-58.62	-40.00	18.62	Vertical
6	14464.36	28.74	-28.99	40.21	-55.31	-40.00	15.31	Vertical



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**Test Band = LTE Band 48\_20MHz\_TM1**

**Test Channel = High Channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	9505.3333	34.47	-33.88	37.75	-56.92	-40.00	16.92	Horizontal
2	12966.3542	31.80	-29.83	39.56	-53.73	-40.00	13.73	Horizontal
3	17944.8958	29.11	-24.62	41.17	-49.61	-40.00	9.61	Horizontal
4	7362.18	34.01	-37.68	36.44	-62.49	-40.00	22.49	Horizontal
5	11043.27	29.51	-30.28	38.40	-57.63	-40.00	17.63	Horizontal
6	14724.36	27.55	-28.37	40.16	-55.92	-40.00	15.92	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	8962.9167	34.40	-34.80	37.58	-58.08	-40.00	18.08	Vertical
2	12964.4375	31.73	-29.84	39.56	-53.81	-40.00	13.81	Vertical
3	17835.6458	28.89	-24.10	40.91	-49.57	-40.00	9.57	Vertical
4	7362.18	34.64	-37.68	36.44	-61.86	-40.00	21.86	Vertical
5	11043.27	29.18	-30.28	38.40	-57.96	-40.00	17.96	Vertical
6	14724.36	27.28	-28.37	40.16	-56.19	-40.00	16.19	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 (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	VL	NT	14.00	0.003862	PASS
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	14.90	0.004110	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	24.90	0.006869	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	13.40	0.003697	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	14.00	0.003862	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	6.40	0.006537	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	10.00	0.002759	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	22.40	0.006179	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	24.50	0.006759	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	15.10	0.004166	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	23.20	0.006400	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	25.00	0.006897	PASS

---End of Attachment---



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