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Appendix B.14

LTE Band 48



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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt4

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	23.05	22.37	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#12	23.16	22.48	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#24	23.18	22.50	23.00	PASS
Band48	5MHz	QPSK	55265	25RB#0	22.20	21.52	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#0	22.00	21.32	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#12	23.17	22.49	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#24	23.15	22.47	23.00	PASS
Band48	5MHz	QPSK	55990	25RB#0	22.17	21.49	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#0	21.36	20.68	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#12	22.80	22.12	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#24	22.80	22.12	23.00	PASS
Band48	5MHz	QPSK	56715	25RB#0	21.85	21.17	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#0	22.36	21.68	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#12	22.39	21.71	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#24	22.46	21.78	23.00	PASS
Band48	5MHz	16QAM	55265	25RB#0	21.15	20.47	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#0	22.39	21.71	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#12	22.42	21.74	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#24	22.42	21.74	23.00	PASS
Band48	5MHz	16QAM	55990	25RB#0	21.12	20.44	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#0	22.02	21.34	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#12	22.07	21.39	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#24	22.06	21.38	23.00	PASS
Band48	5MHz	16QAM	56715	25RB#0	20.80	20.12	23.00	PASS



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Band48	5MHz	64QAM	55265	1RB#0	21.13	20.45	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#12	21.17	20.49	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#24	21.19	20.51	23.00	PASS
Band48	5MHz	64QAM	55265	25RB#0	20.32	19.64	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#0	21.12	20.44	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#12	21.16	20.48	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#24	21.13	20.45	23.00	PASS
Band48	5MHz	64QAM	55990	25RB#0	20.20	19.52	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#0	20.78	20.10	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#12	20.83	20.15	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#24	20.78	20.10	23.00	PASS
Band48	5MHz	64QAM	56715	25RB#0	19.83	19.15	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#0	18.23	17.55	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#12	18.29	17.61	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#24	18.32	17.64	23.00	PASS
Band48	5MHz	256QAM	55265	25RB#0	18.36	17.68	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#0	18.18	17.50	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#12	18.20	17.52	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#24	18.20	17.52	23.00	PASS
Band48	5MHz	256QAM	55990	25RB#0	18.25	17.57	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#0	17.79	17.11	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#12	17.80	17.12	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#24	17.80	17.12	23.00	PASS
Band48	5MHz	256QAM	56715	25RB#0	17.88	17.20	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#0	23.32	22.64	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#24	23.38	22.70	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#49	23.47	22.79	23.00	PASS
Band48	10MHz	QPSK	55290	50RB#0	22.42	21.74	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#0	22.22	21.54	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#24	23.29	22.61	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#49	23.30	22.62	23.00	PASS



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Band48	10MHz	QPSK	55990	50RB#0	22.31	21.63	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#0	21.69	21.01	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#24	22.90	22.22	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#49	23.02	22.34	23.00	PASS
Band48	10MHz	QPSK	56690	50RB#0	22.02	21.34	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#0	22.62	21.94	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#24	22.67	21.99	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#49	22.73	22.05	23.00	PASS
Band48	10MHz	16QAM	55290	50RB#0	21.46	20.78	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#0	22.51	21.83	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#24	22.55	21.87	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#49	22.59	21.91	23.00	PASS
Band48	10MHz	16QAM	55990	50RB#0	21.34	20.66	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#0	22.17	21.49	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#24	22.26	21.58	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#49	22.29	21.61	23.00	PASS
Band48	10MHz	16QAM	56690	50RB#0	21.06	20.38	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#0	21.36	20.68	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#24	21.40	20.72	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#49	21.49	20.81	23.00	PASS
Band48	10MHz	64QAM	55290	50RB#0	20.59	19.91	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#0	21.28	20.60	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#24	21.30	20.62	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#49	21.32	20.64	23.00	PASS
Band48	10MHz	64QAM	55990	50RB#0	20.40	19.72	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#0	20.91	20.23	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#24	20.97	20.29	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#49	21.04	20.36	23.00	PASS
Band48	10MHz	64QAM	56690	50RB#0	20.06	19.38	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#0	18.49	17.81	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#24	18.53	17.85	23.00	PASS



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Band48	10MHz	256QAM	55290	1RB#49	18.64	17.96	23.00	PASS
Band48	10MHz	256QAM	55290	50RB#0	18.61	17.93	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#0	18.34	17.66	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#24	18.35	17.67	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#49	18.38	17.70	23.00	PASS
Band48	10MHz	256QAM	55990	50RB#0	18.42	17.74	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#0	17.91	17.23	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#24	17.96	17.28	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#49	18.03	17.35	23.00	PASS
Band48	10MHz	256QAM	56690	50RB#0	18.08	17.40	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#0	23.30	22.62	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#38	23.49	22.81	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#74	23.50	22.82	23.00	PASS
Band48	15MHz	QPSK	55315	75RB#0	22.48	21.80	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#0	22.27	21.59	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#38	23.30	22.62	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#74	23.27	22.59	23.00	PASS
Band48	15MHz	QPSK	55990	75RB#0	22.28	21.60	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#0	21.91	21.23	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#38	22.95	22.27	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#74	22.99	22.31	23.00	PASS
Band48	15MHz	QPSK	56665	75RB#0	21.96	21.28	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#0	22.57	21.89	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#38	22.74	22.06	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#74	22.76	22.08	23.00	PASS
Band48	15MHz	16QAM	55315	75RB#0	21.51	20.83	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#0	22.48	21.80	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#38	22.59	21.91	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#74	22.53	21.85	23.00	PASS
Band48	15MHz	16QAM	55990	75RB#0	21.29	20.61	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#0	22.05	21.37	23.00	PASS



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Band48	15MHz	16QAM	56665	1RB#74	22.25	21.57	23.00	PASS
Band48	15MHz	16QAM	56665	75RB#0	20.99	20.31	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#0	21.29	20.61	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#38	21.46	20.78	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#74	21.51	20.83	23.00	PASS
Band48	15MHz	64QAM	55315	75RB#0	20.62	19.94	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#0	21.20	20.52	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#38	21.32	20.64	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#74	21.28	20.60	23.00	PASS
Band48	15MHz	64QAM	55990	75RB#0	20.35	19.67	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#0	20.80	20.12	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#38	20.94	20.26	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#74	20.99	20.31	23.00	PASS
Band48	15MHz	64QAM	56665	75RB#0	20.01	19.33	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#0	18.43	17.75	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#38	18.60	17.92	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#74	18.64	17.96	23.00	PASS
Band48	15MHz	256QAM	55315	75RB#0	18.63	17.95	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#0	18.27	17.59	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#38	18.36	17.68	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#74	18.32	17.64	23.00	PASS
Band48	15MHz	256QAM	55990	75RB#0	18.35	17.67	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#0	17.82	17.14	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#38	17.94	17.26	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#74	17.98	17.30	23.00	PASS
Band48	15MHz	256QAM	56665	75RB#0	18.00	17.32	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#0	23.31	22.63	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#49	23.57	22.89	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#99	23.56	22.88	23.00	PASS
Band48	20MHz	QPSK	55340	100RB#0	22.57	21.89	23.00	PASS



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Band48	20MHz	QPSK	55990	1RB#0	22.10	21.42	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#49	23.39	22.71	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#99	23.28	22.60	23.00	PASS
Band48	20MHz	QPSK	55990	100RB#0	22.31	21.63	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#0	21.94	21.26	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#49	23.02	22.34	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#99	23.01	22.33	23.00	PASS
Band48	20MHz	QPSK	56640	100RB#0	21.98	21.30	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#0	22.59	21.91	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#49	22.86	22.18	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#99	22.83	22.15	23.00	PASS
Band48	20MHz	16QAM	55340	100RB#0	21.65	20.97	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#0	22.48	21.80	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#49	22.68	22.00	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#99	22.56	21.88	23.00	PASS
Band48	20MHz	16QAM	55990	100RB#0	21.39	20.71	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#0	22.01	21.33	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#49	22.23	21.55	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#99	22.25	21.57	23.00	PASS
Band48	20MHz	16QAM	56640	100RB#0	21.06	20.38	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#0	21.35	20.67	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#49	21.57	20.89	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#99	21.59	20.91	23.00	PASS
Band48	20MHz	64QAM	55340	100RB#0	20.68	20.00	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#0	21.24	20.56	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#49	21.38	20.70	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#99	21.30	20.62	23.00	PASS
Band48	20MHz	64QAM	55990	100RB#0	20.38	19.70	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#0	20.78	20.10	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#49	20.99	20.31	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#99	21.00	20.32	23.00	PASS



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Band48	20MHz	64QAM	56640	100RB#0	20.00	19.32	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#0	18.46	17.78	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#49	18.76	18.08	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#99	18.69	18.01	23.00	PASS
Band48	20MHz	256QAM	55340	100RB#0	18.68	18.00	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#0	18.31	17.63	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#49	18.43	17.75	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#99	18.34	17.66	23.00	PASS
Band48	20MHz	256QAM	55990	100RB#0	18.39	17.71	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#0	17.78	17.10	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#49	17.97	17.29	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#99	18.01	17.33	23.00	PASS
Band48	20MHz	256QAM	56640	100RB#0	18.01	17.33	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	9.44	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	9.44	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	9.50	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	10.02	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	10.14	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	10.10	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	10.22	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	10.30	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	10.12	13	PASS



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Test Graphs

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



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



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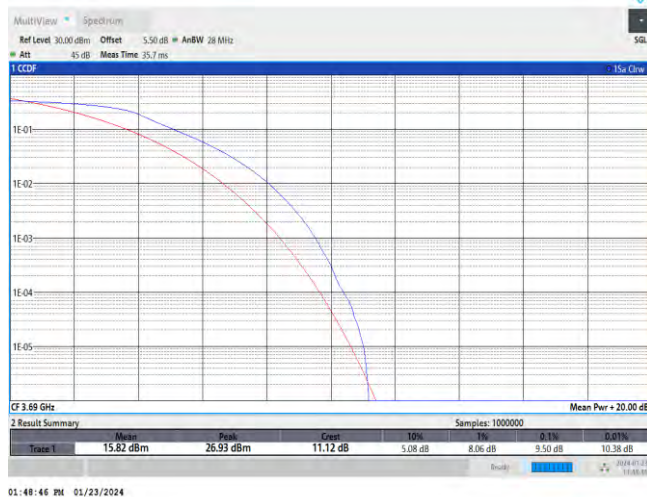
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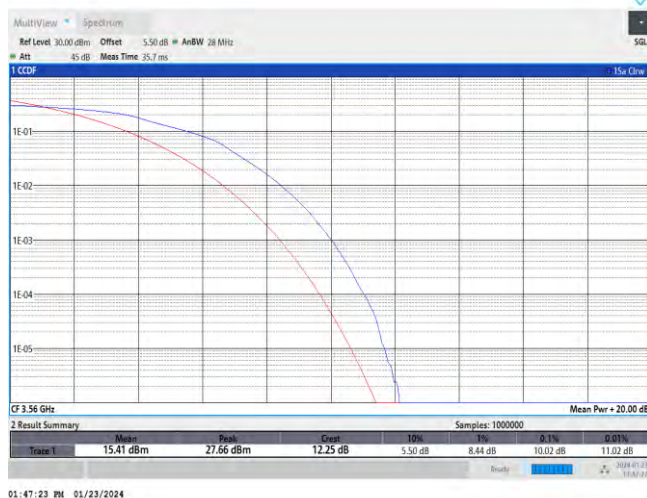
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Band48-20MHz-QPSK-56640-100RB#0



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



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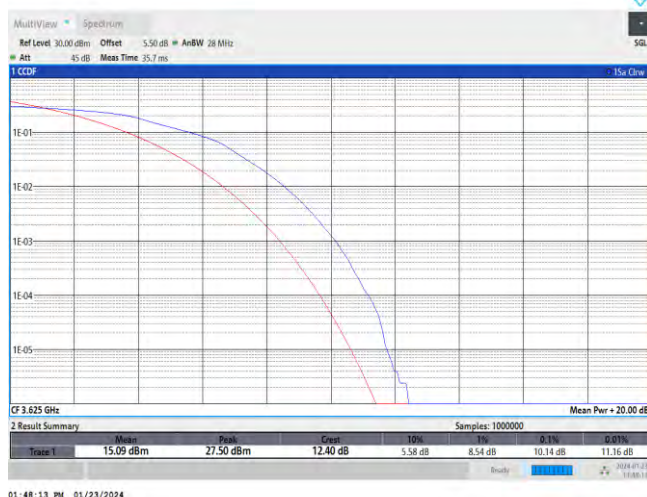
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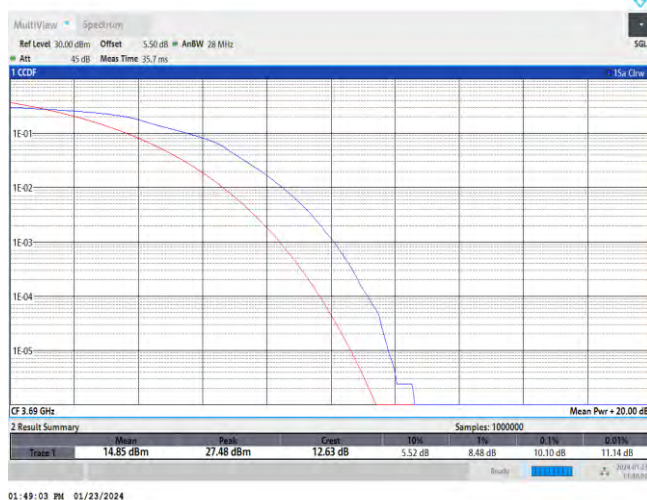
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Band48-20MHz-16QAM-55990-100RB#0



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



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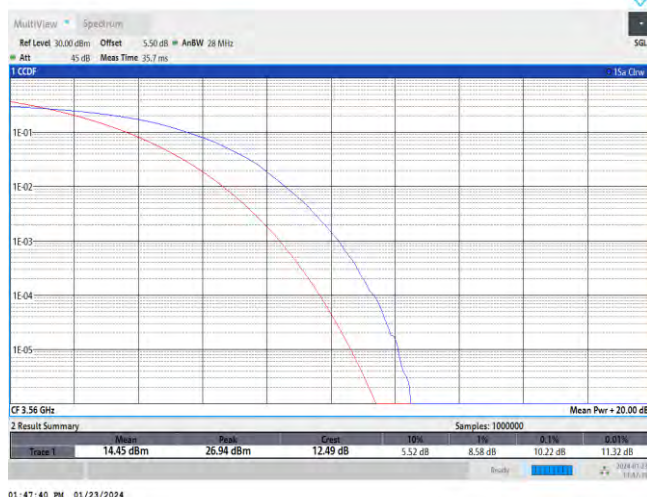
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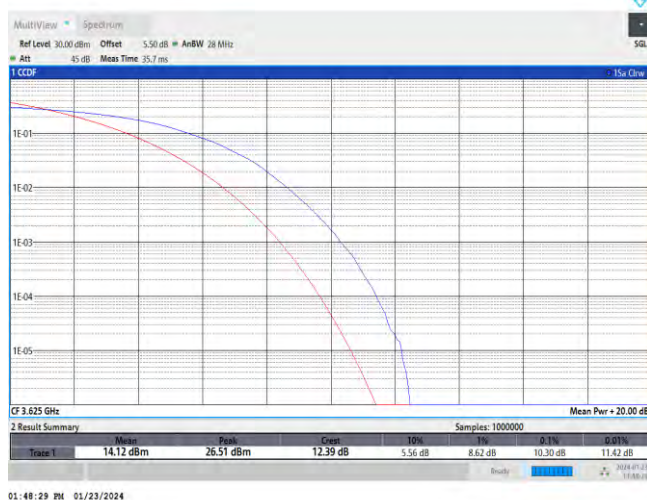
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Band48-20MHz-64QAM-55340-100RB#0



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



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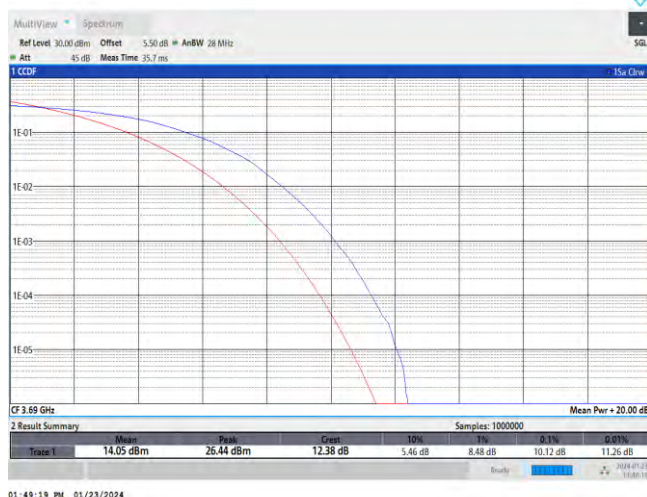
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Band48-20MHz-64QAM-56640-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band48	5MHz	QPSK	55990	25RB#0	4.491	5.05	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.499	5.13	PASS
Band48	5MHz	64QAM	55990	25RB#0	4.513	5.10	PASS
Band48	5MHz	256QAM	55990	25RB#0	4.485	4.95	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.918	9.60	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.94	9.70	PASS
Band48	10MHz	64QAM	55990	50RB#0	8.944	9.60	PASS
Band48	10MHz	256QAM	55990	50RB#0	8.94	9.60	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.483	15.00	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.459	14.80	PASS
Band48	15MHz	64QAM	55990	75RB#0	13.483	14.80	PASS
Band48	15MHz	256QAM	55990	75RB#0	13.467	14.80	PASS
Band48	20MHz	QPSK	55990	100RB#0	17.883	19.40	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.867	19.47	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.877	19.40	PASS
Band48	20MHz	256QAM	55990	100RB#0	17.883	19.33	PASS



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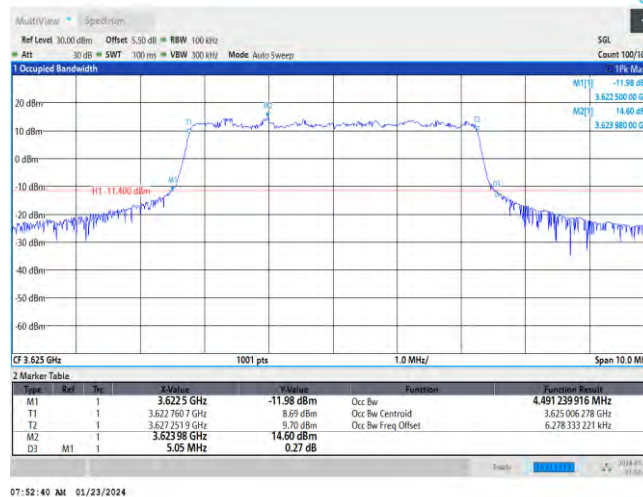
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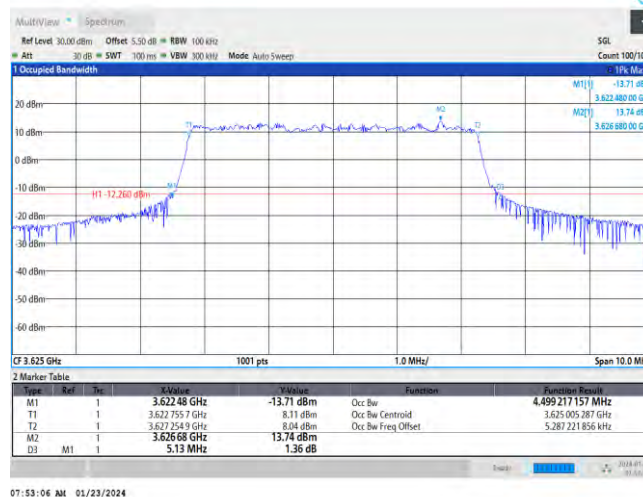
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Test Graphs

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



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



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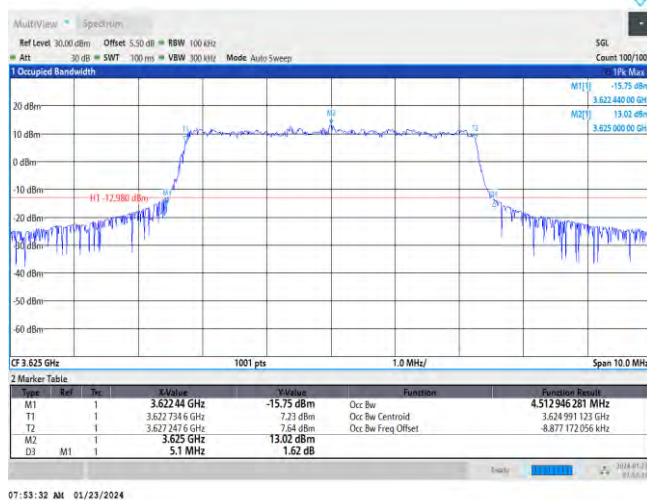
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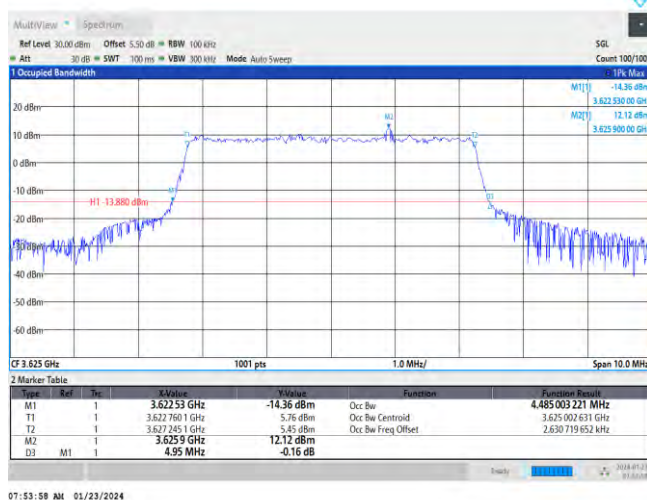
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Band48-5MHz-64QAM-55990-25RB#0



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



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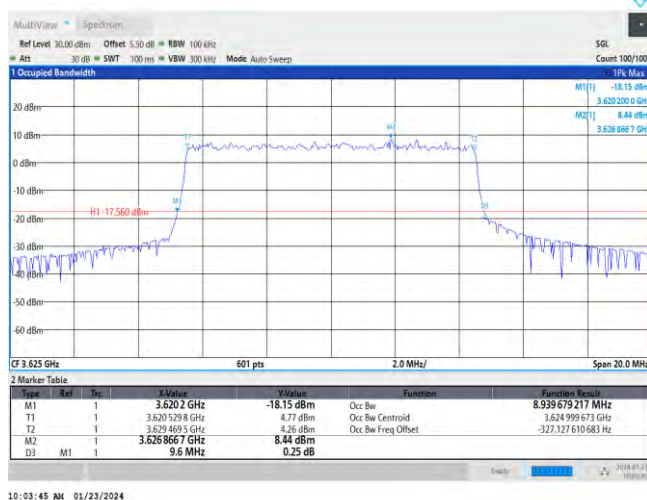
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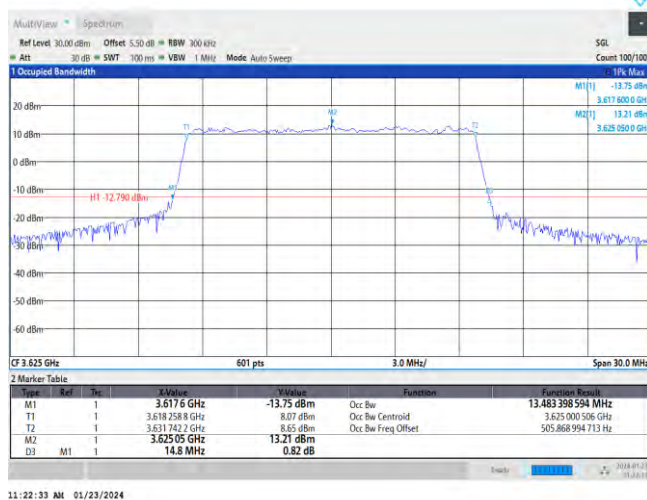
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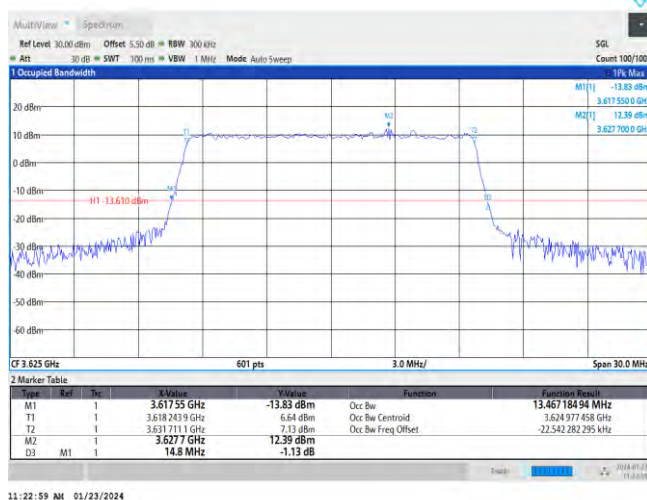
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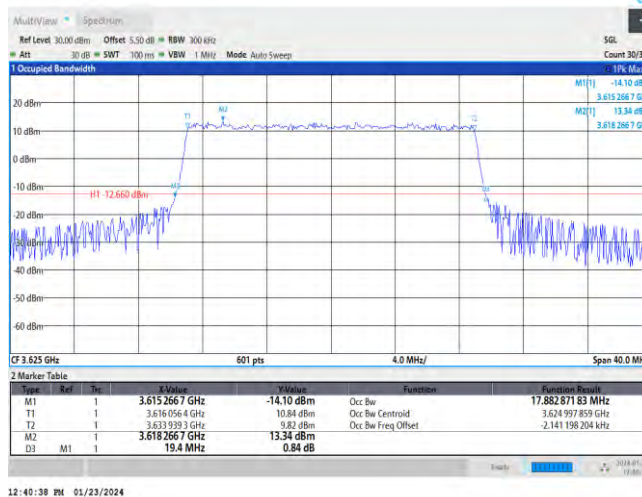
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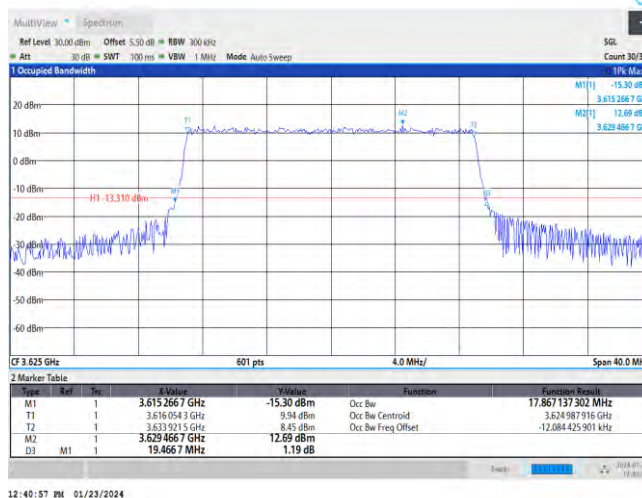
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Band48-20MHz-QPSK-55990-100RB#0



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



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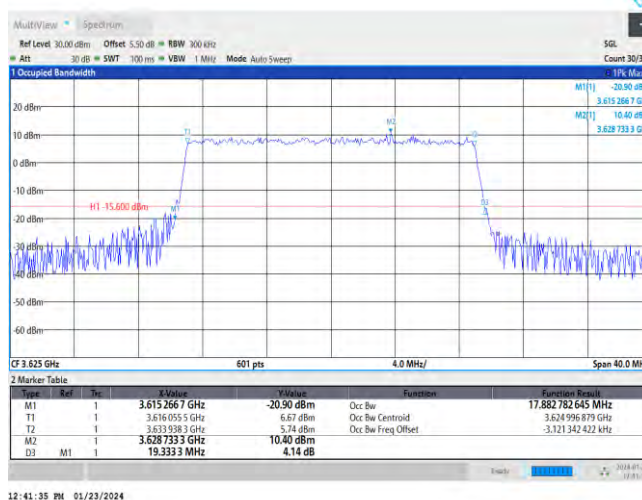
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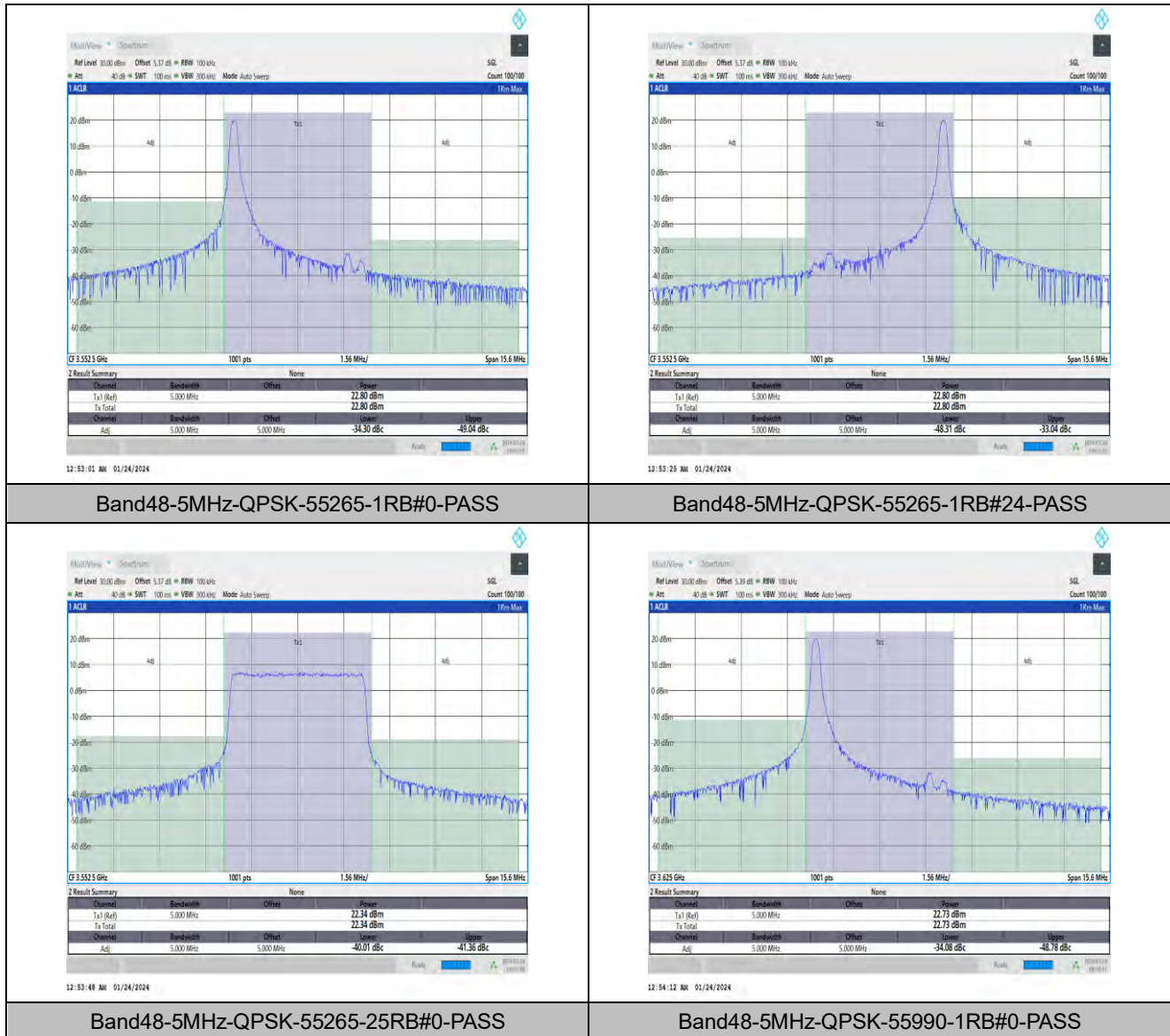
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Adjacent channel leakage ratio

Test Graphs



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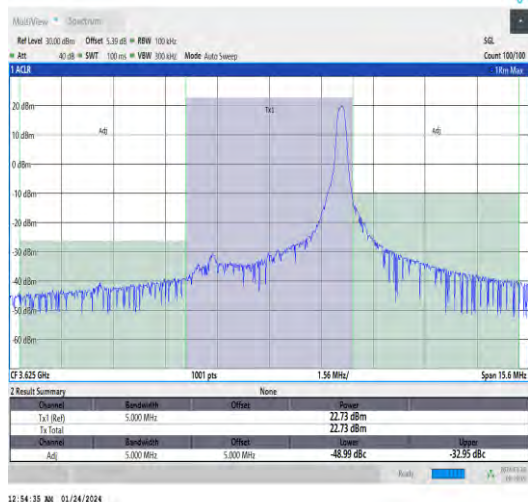
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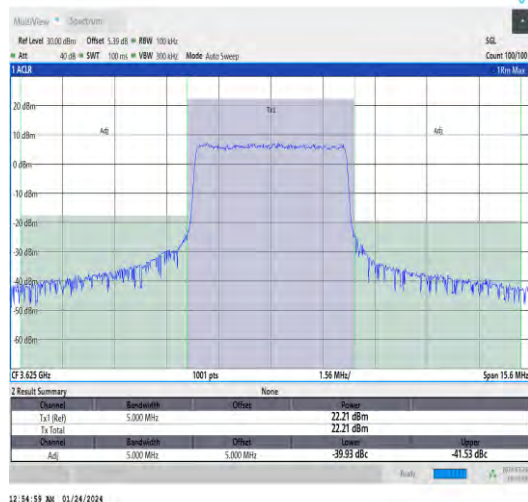
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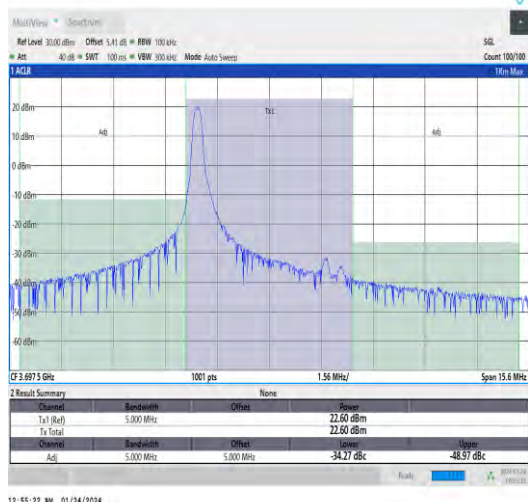
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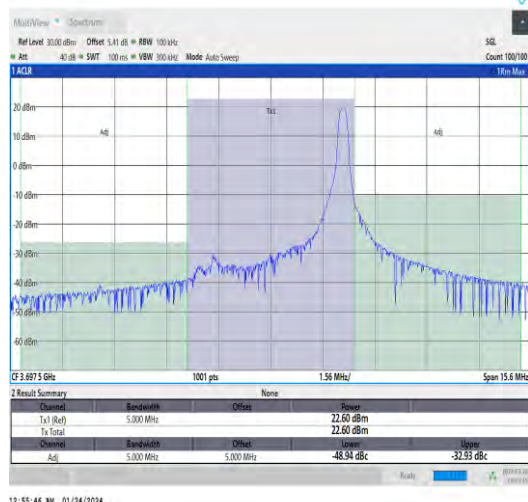
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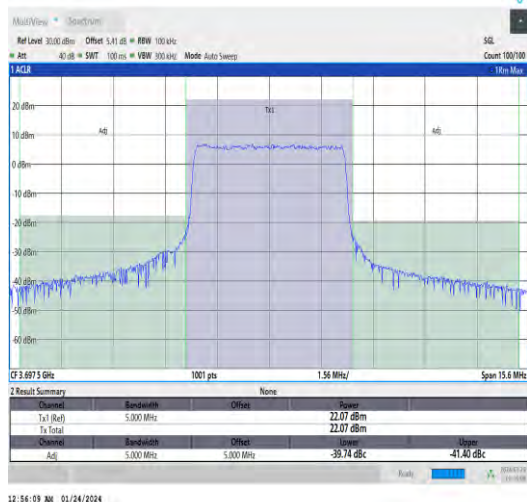
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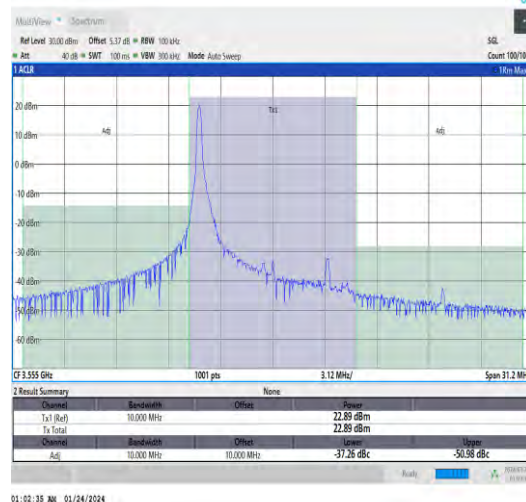
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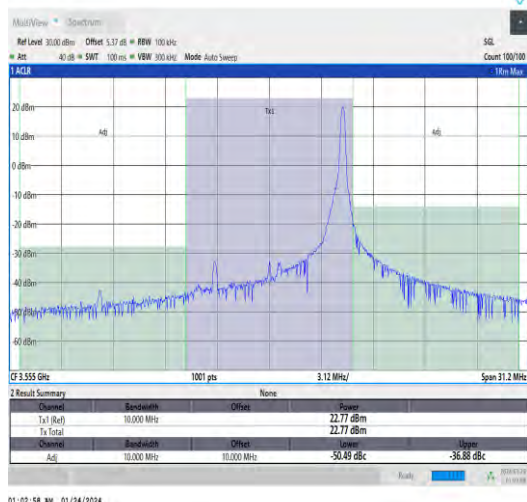
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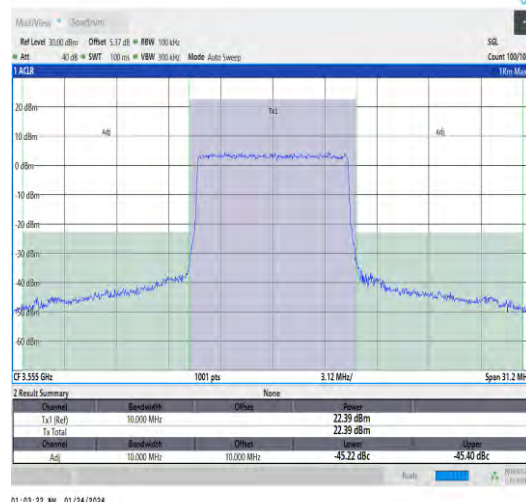
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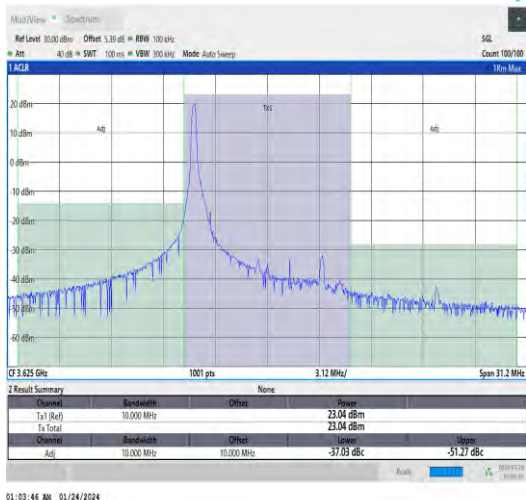
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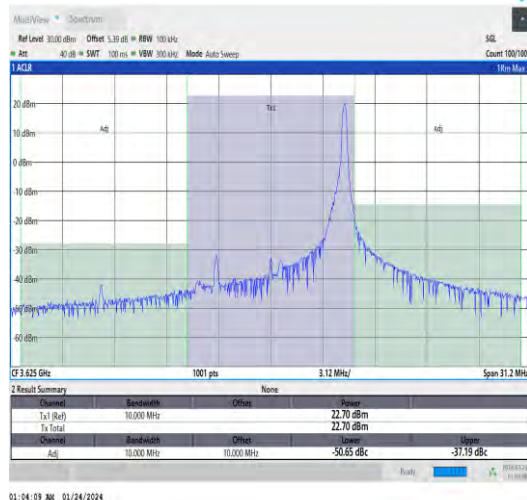
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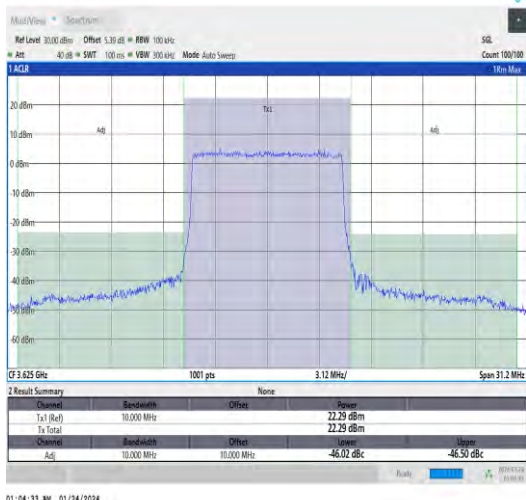
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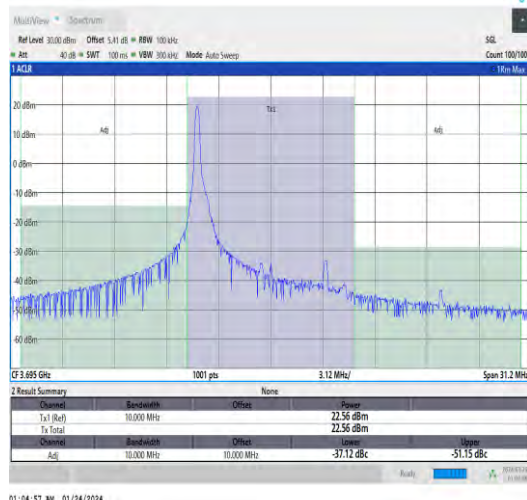
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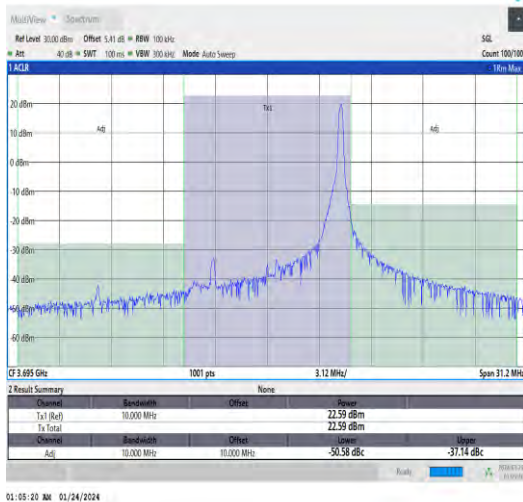
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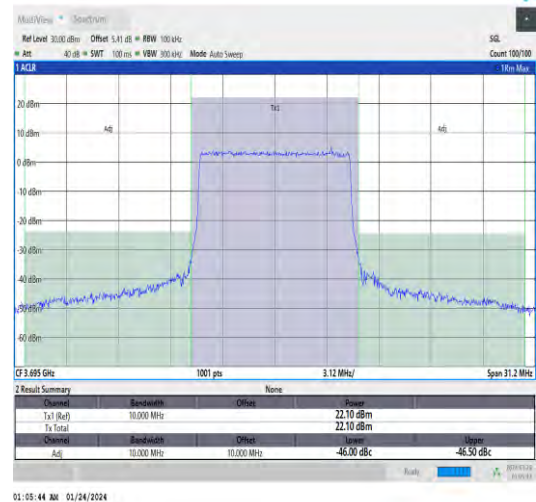
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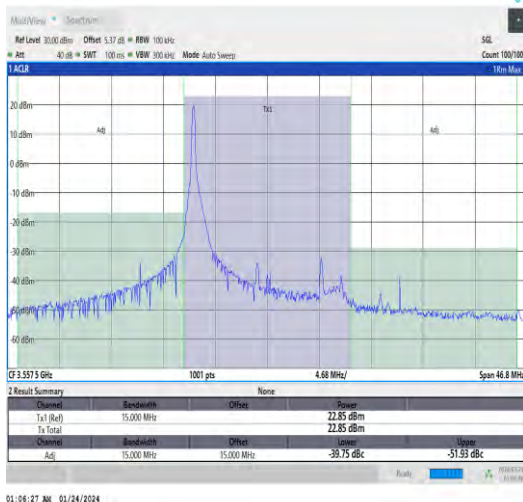
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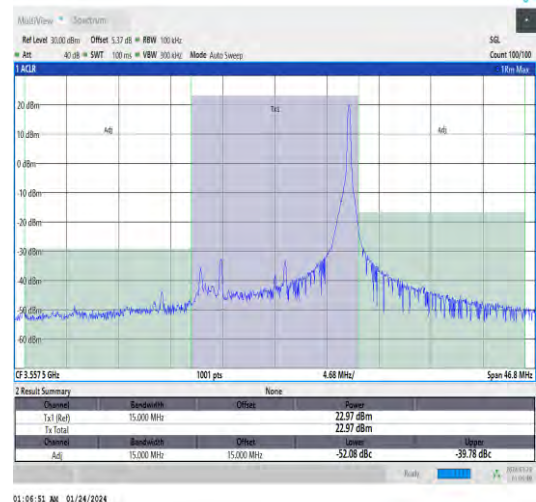
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Band48-15MHz-QPSK-55315-1RB#0-PASS



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



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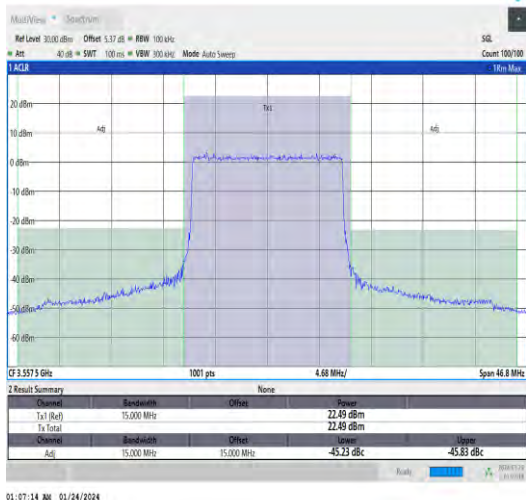
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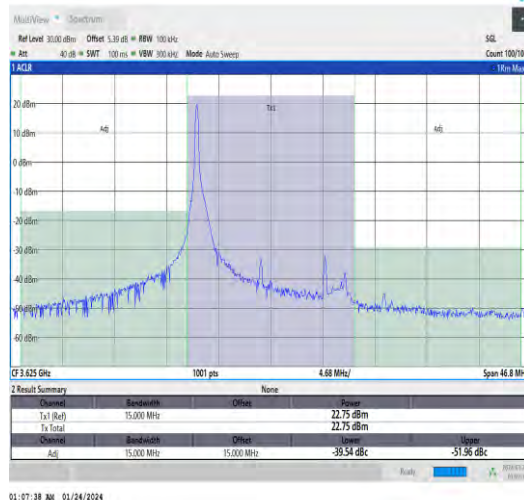
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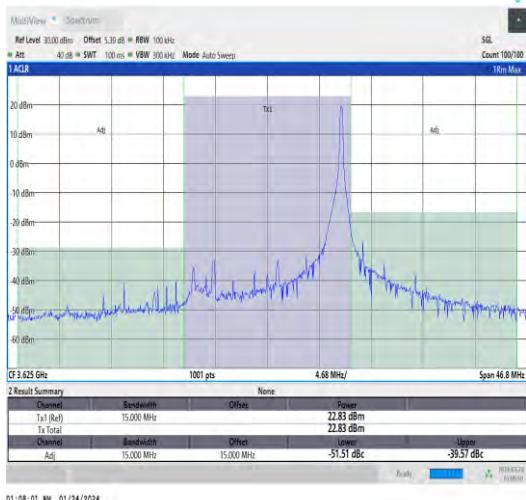
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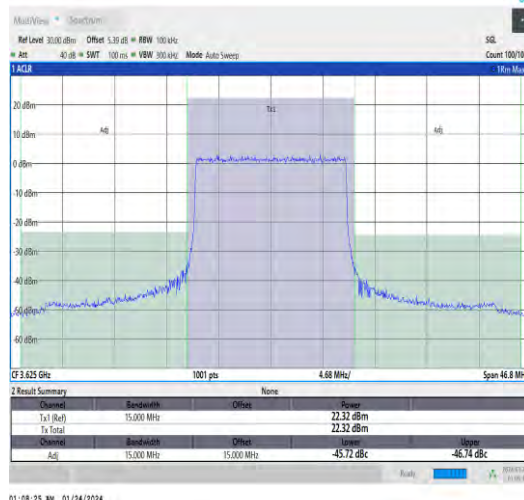
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Band48-15MHz-QPSK-55990-75RB#0-PASS



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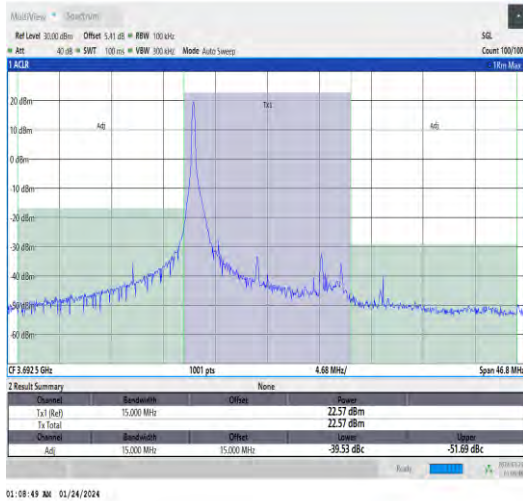
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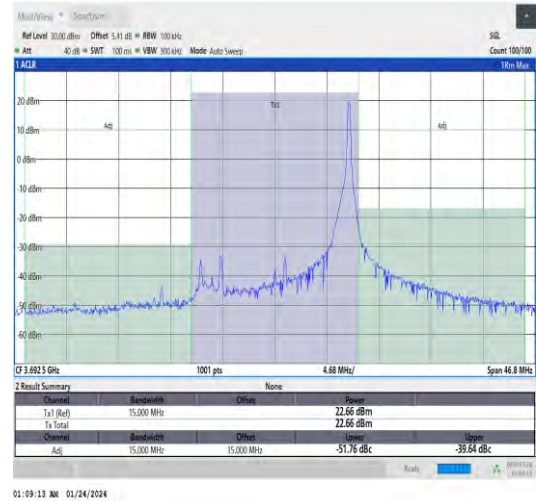
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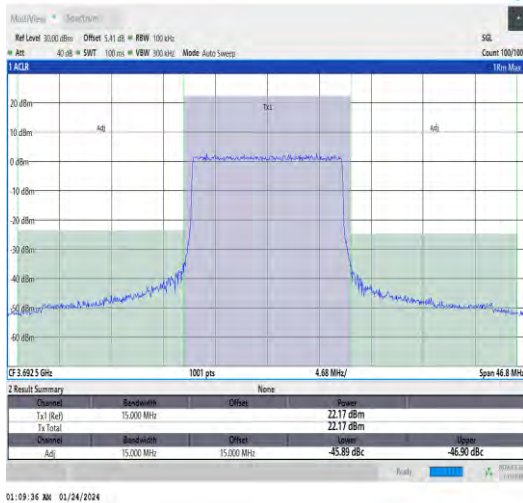
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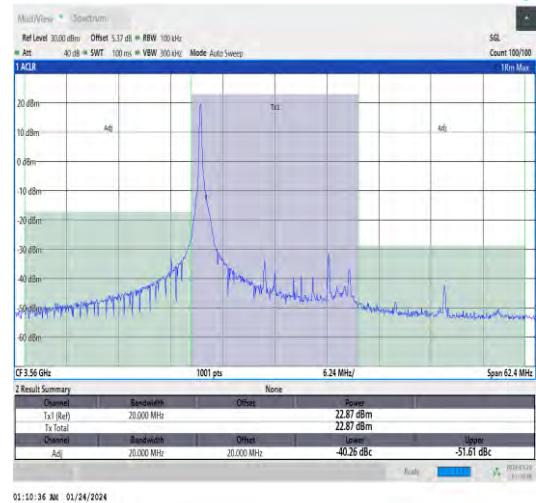
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Band48-15MHz-QPSK-56665-75RB#0-PASS



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



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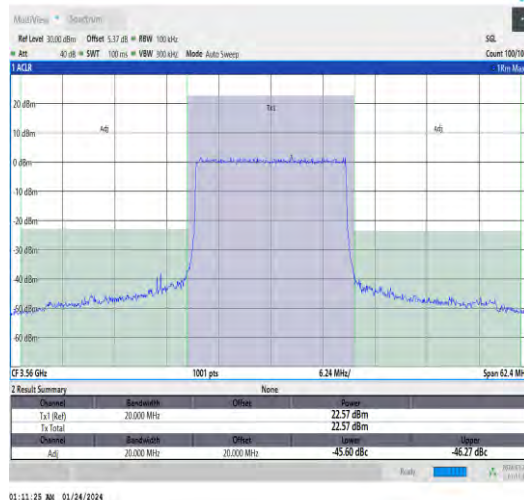
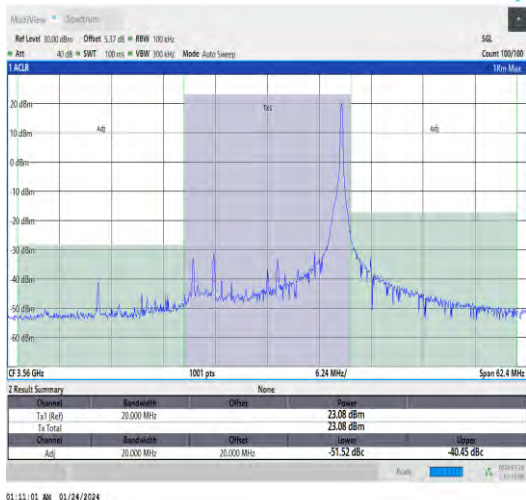
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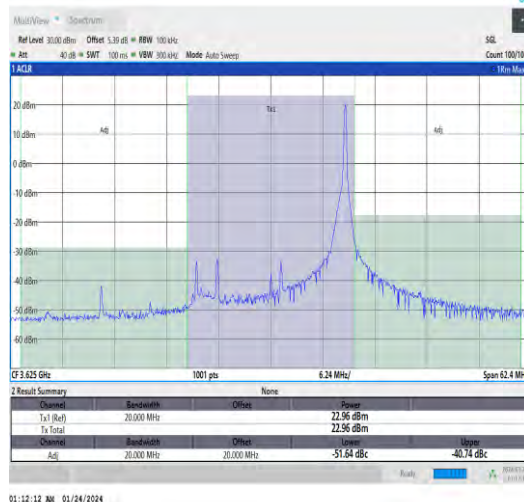
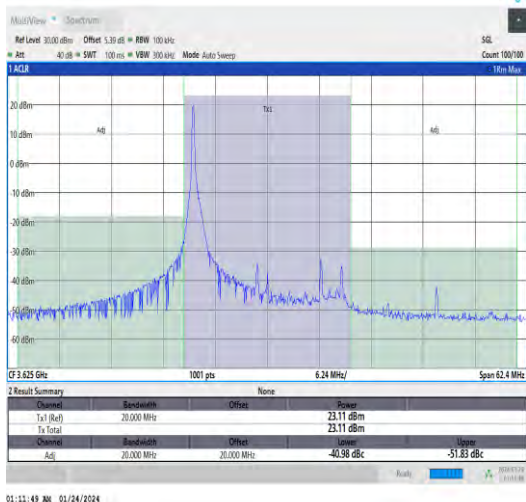
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Band48-20MHz-QPSK-55340-1RB#99-PASS

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Band48-20MHz-QPSK-55990-1RB#0-PASS

Band48-20MHz-QPSK-55990-1RB#99-PASS



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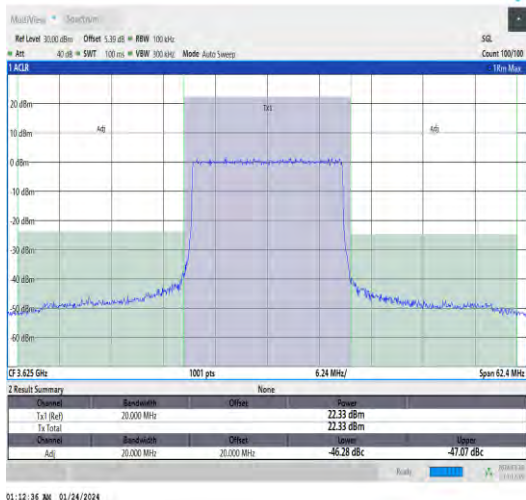
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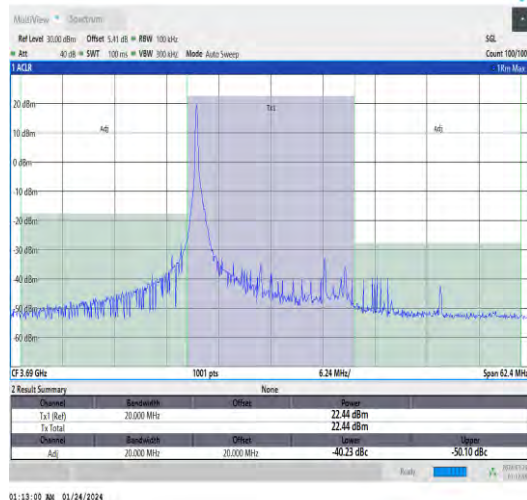
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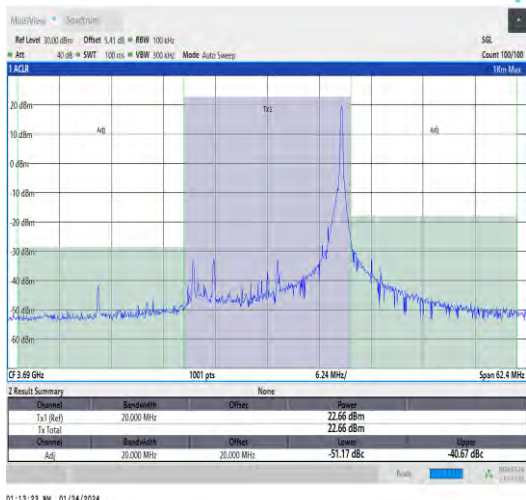
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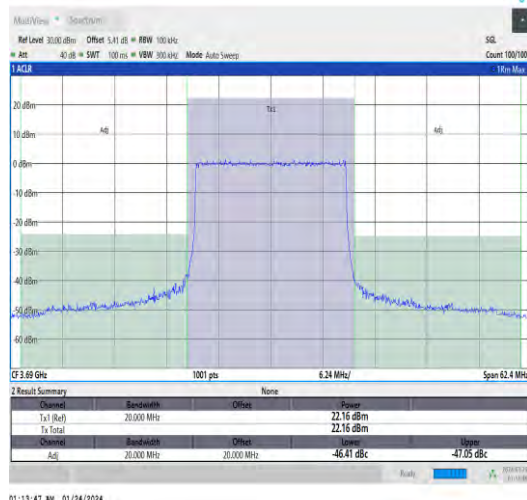
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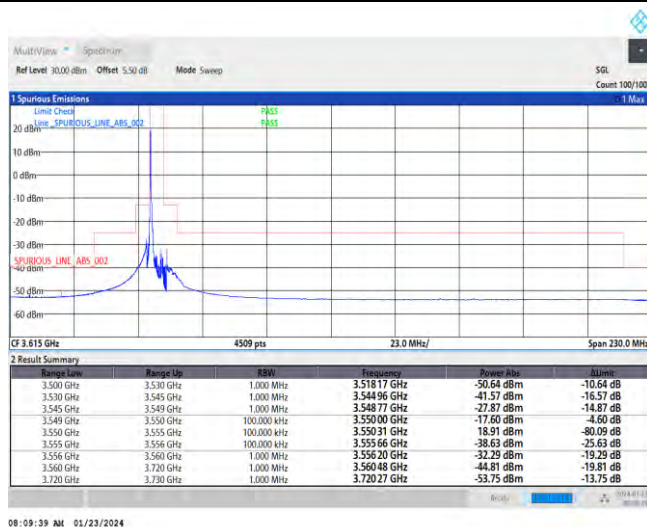
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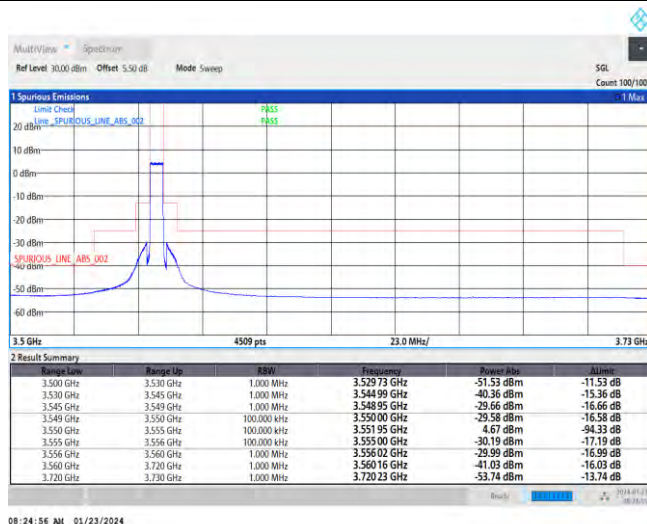
Band Edge

Test Graphs

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



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



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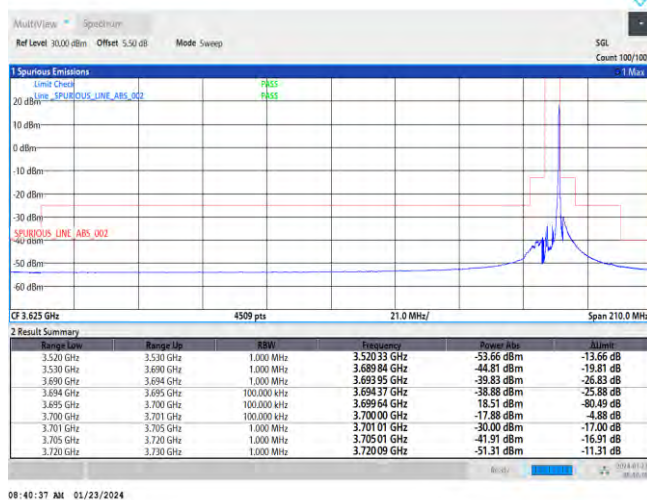
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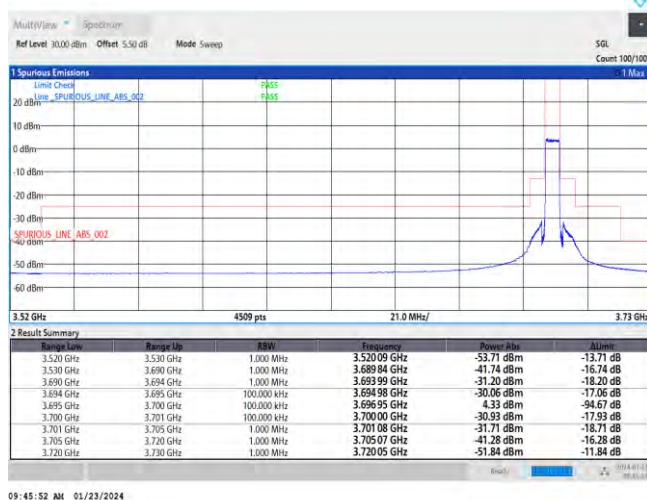
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Band48-5MHz-QPSK-56715-25RB#0



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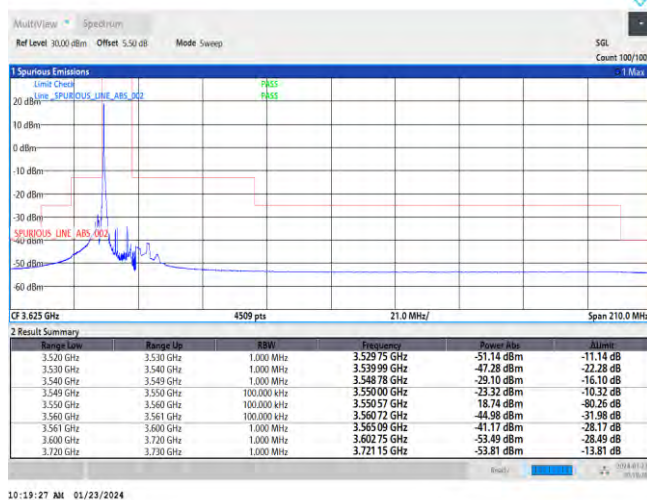
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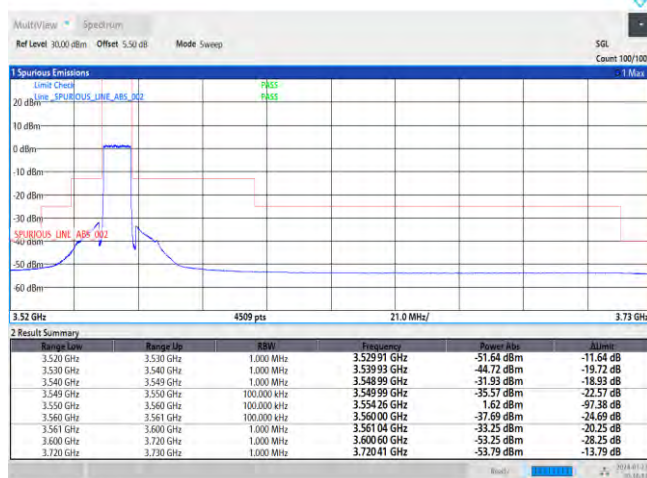
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Band48-10MHz-QPSK-55290-1RB#0



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



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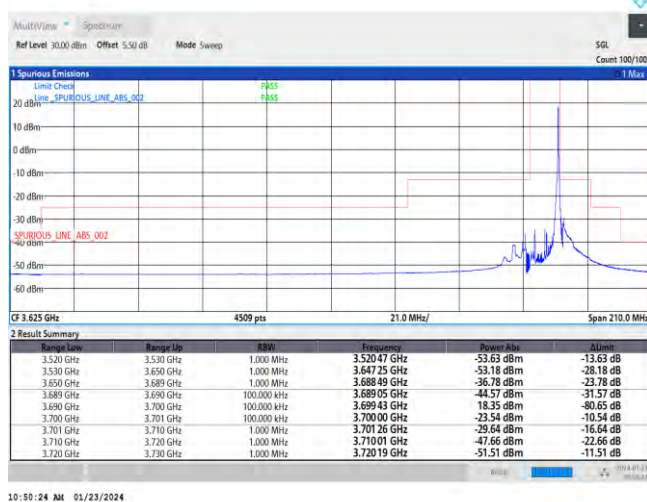
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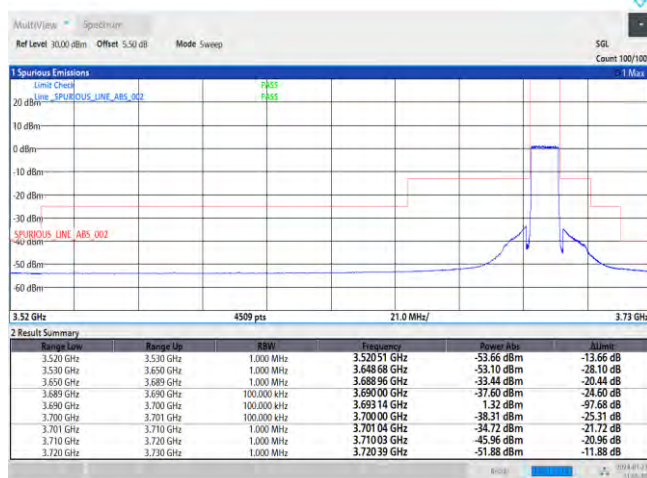
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Band48-10MHz-QPSK-56690-1RB#49



10:50:24 AM 01/23/2024

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



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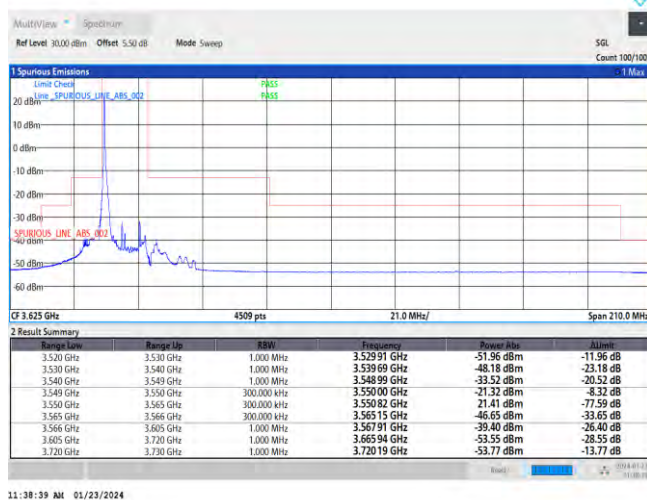
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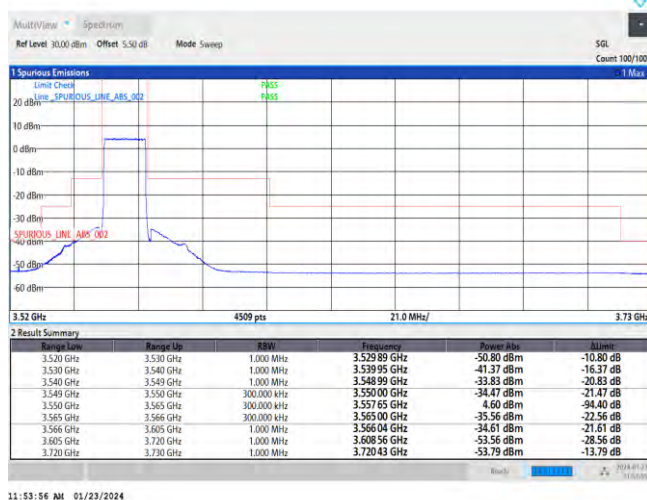
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Band48-15MHz-QPSK-55315-1RB#0



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



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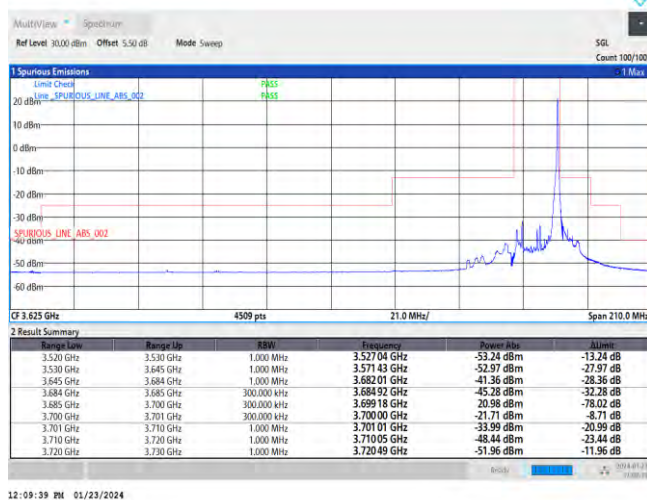
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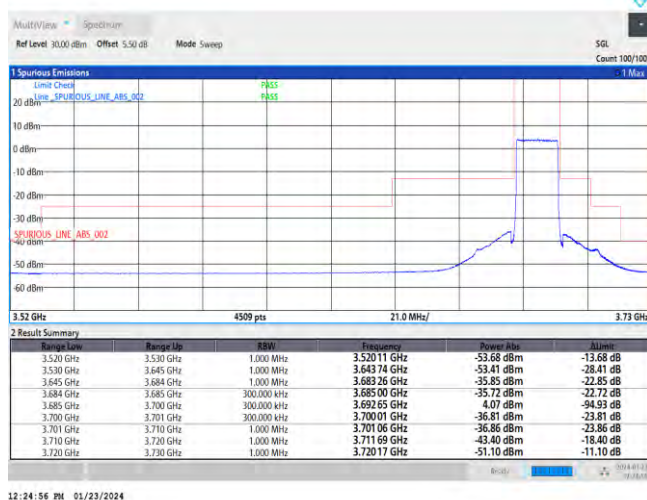
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Band48-15MHz-QPSK-56665-1RB#74



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



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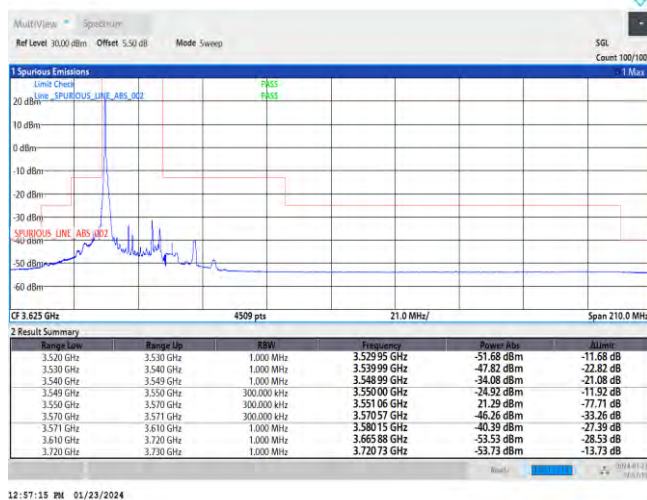
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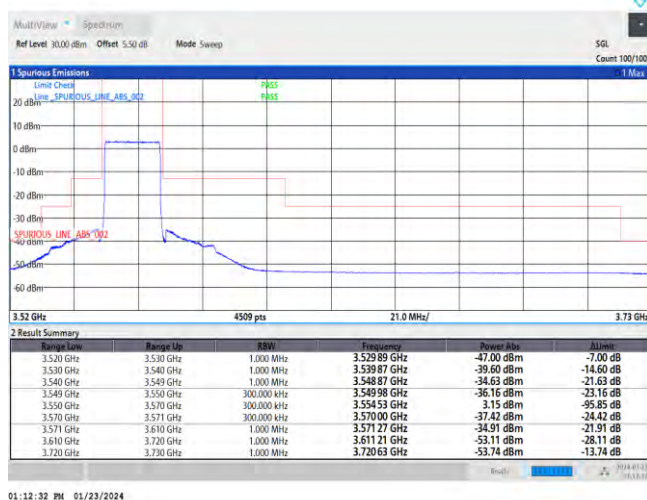
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Band48-20MHz-QPSK-55340-1RB#0



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



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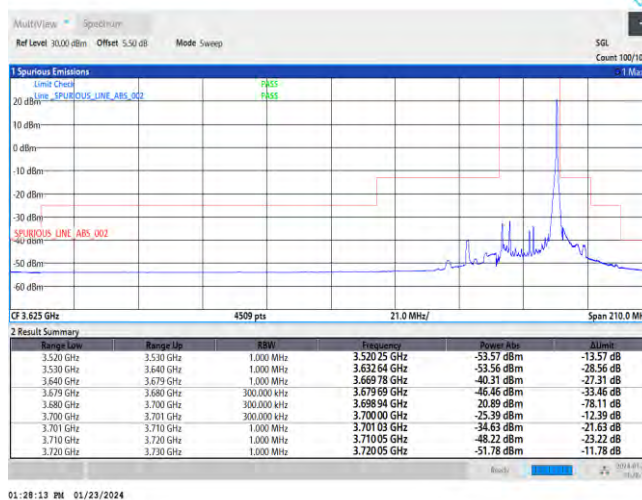
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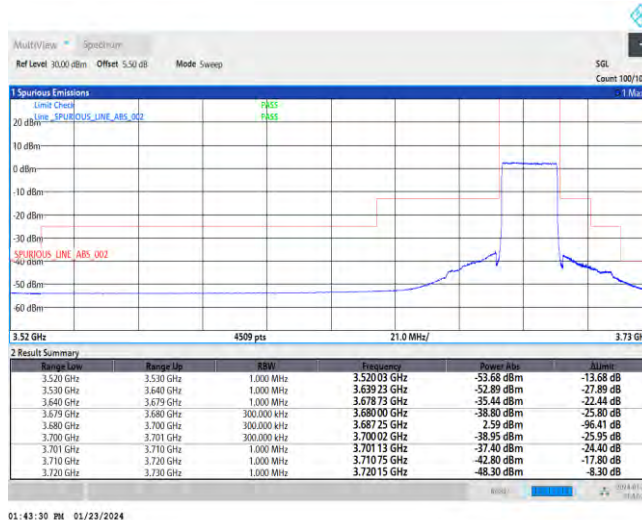
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Band48-20MHz-QPSK-56640-1RB#99



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



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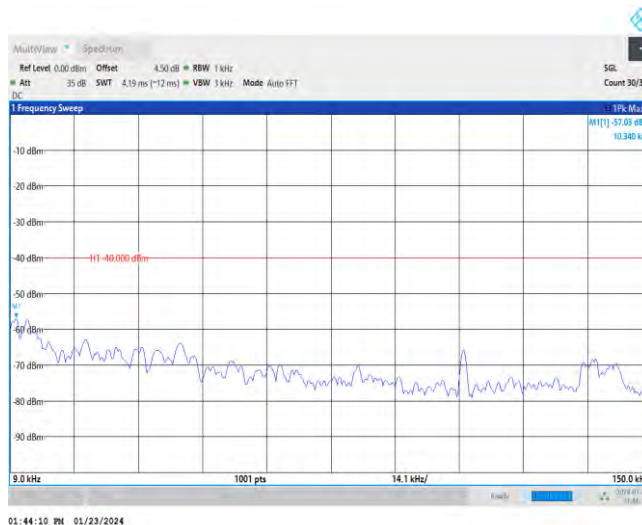
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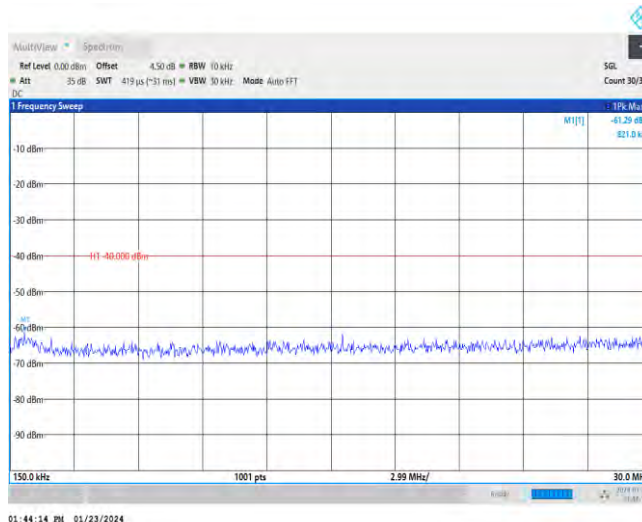
Conducted Spurious Emission

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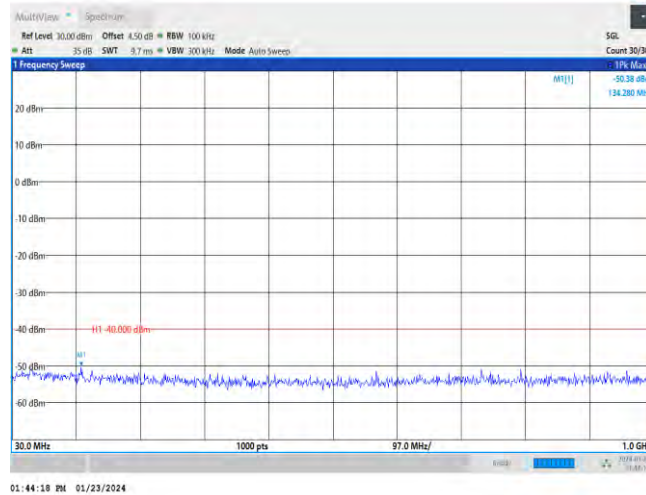
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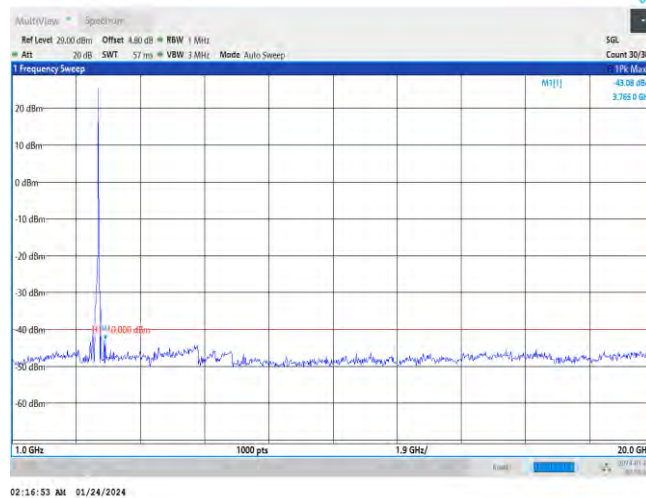
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Band48-20MHz-QPSK-55340-1RB#0-Range3:30~1000MHz



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



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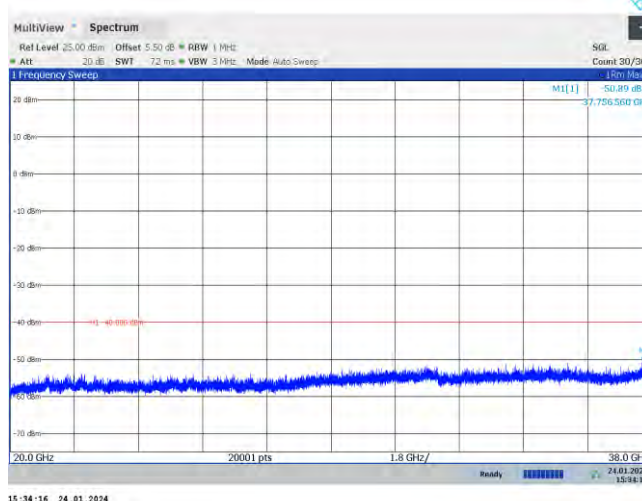
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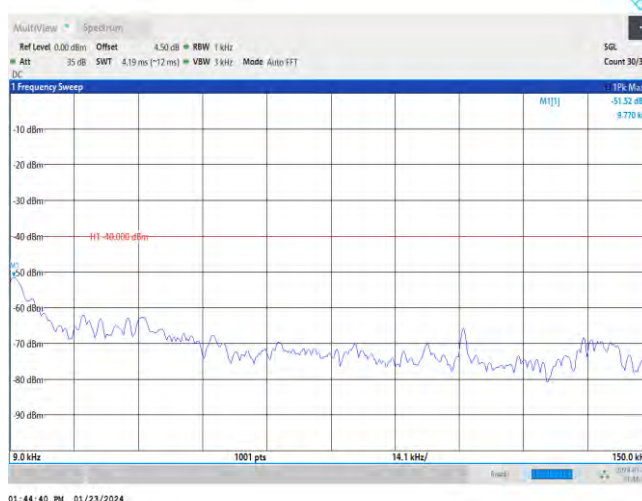
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Band48-20MHz-QPSK-55340-1RB#0-Range5:20000~38000MHz



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



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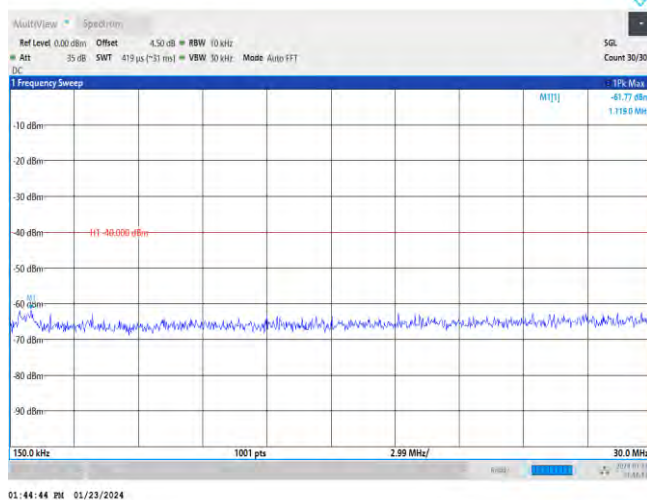
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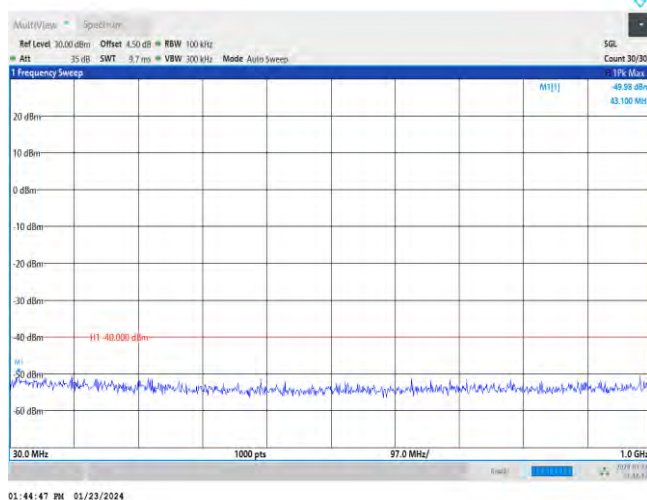
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Band48-20MHz-QPSK-55990-1RB#0-Range2:0.15~30MHz



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



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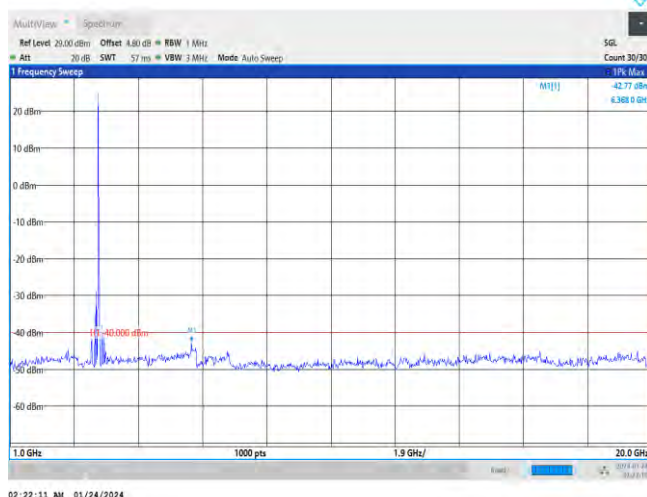
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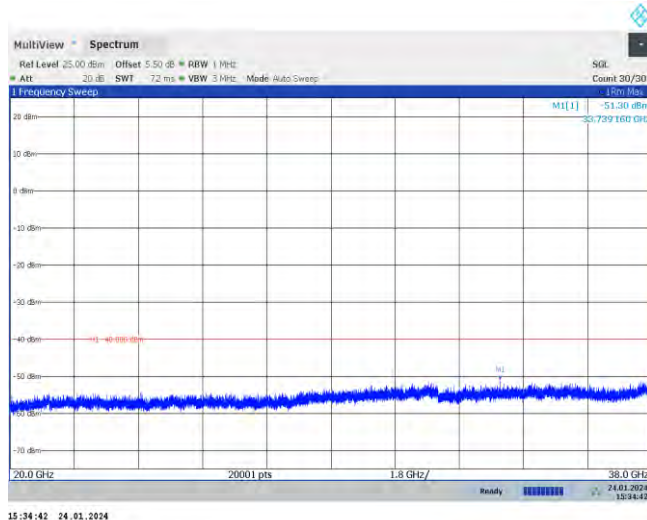
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Band48-20MHz-QPSK-55990-1RB#0-Range4:1000~20000MHz



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



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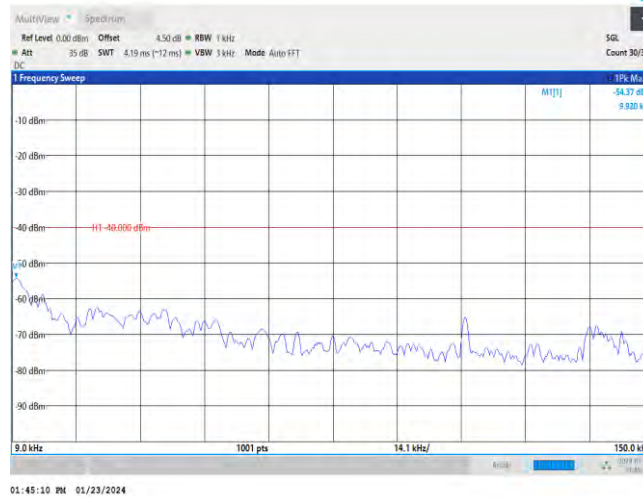
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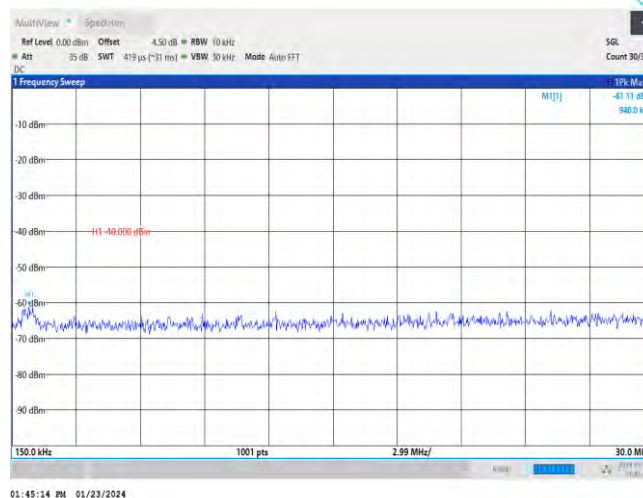
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Band48-20MHz-QPSK-56640-1RB#0-Range1:0.009~0.15MHz



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



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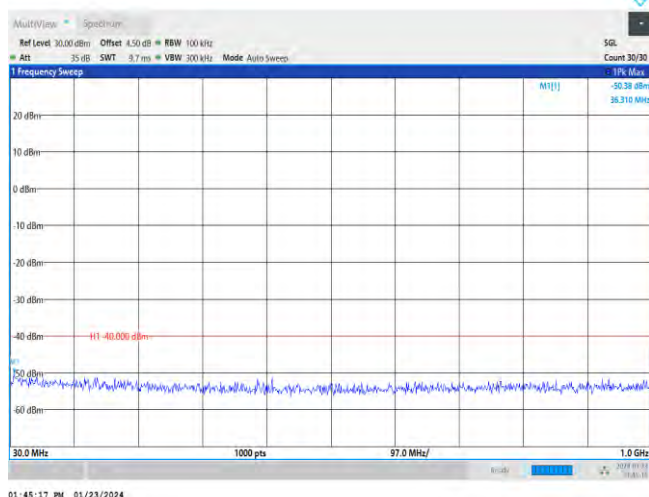
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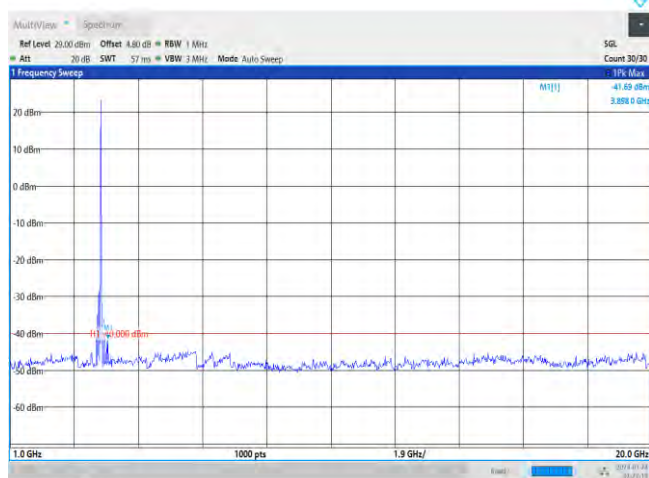
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Band48-20MHz-QPSK-56640-1RB#0-Range3:30~1000MHz



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



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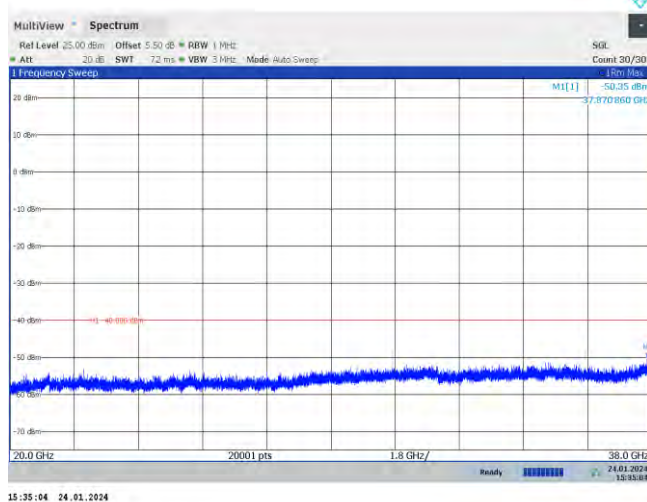


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Band48-20MHz-QPSK-56640-1RB#0-Range5:20000~38000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band48_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.1800	38.45	-43.66	35.49	-64.98	-40.00	24.98	Horizontal
2	8962.725	36.96	-40.88	36.32	-62.87	-40.00	22.87	Horizontal
3	10653.2700	31.28	-37.73	38.53	-63.18	-40.00	23.18	Horizontal
4	12317.85	30.00	-36.70	38.90	-63.07	-40.00	23.07	Horizontal
5	14204.3600	26.20	-35.33	40.98	-63.41	-40.00	23.41	Horizontal
6	17755.4500	30.16	-33.78	45.70	-53.17	-40.00	13.17	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7102.1800	38.72	-43.66	35.49	-64.71	-40.00	24.71	Vertical
2	8711.45	37.25	-41.32	36.44	-62.88	-40.00	22.88	Vertical
3	10653.2700	31.84	-37.73	38.53	-62.62	-40.00	22.62	Vertical
4	12066	29.55	-37.19	38.82	-64.08	-40.00	24.08	Vertical
5	14204.3600	26.44	-35.33	40.98	-63.17	-40.00	23.17	Vertical
6	17755.4500	29.72	-33.78	45.70	-53.61	-40.00	13.61	Vertical



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Test Band = LTE Band48_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7232.1800	38.75	-43.52	35.85	-64.18	-40.00	24.18	Horizontal
2	8703.975	37.38	-41.33	36.45	-62.76	-40.00	22.76	Horizontal
3	10025.9	33.97	-39.20	38.21	-62.28	-40.00	22.28	Horizontal
4	10848.2700	30.37	-38.15	38.62	-64.41	-40.00	24.41	Horizontal
5	12412.15	29.45	-36.99	38.92	-63.87	-40.00	23.87	Horizontal
6	14464.3600	25.85	-34.53	41.09	-62.85	-40.00	22.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7232.1800	39.03	-43.52	35.85	-63.90	-40.00	23.90	Vertical
2	8594.725	37.14	-40.94	36.50	-62.56	-40.00	22.56	Vertical
3	10127.675	33.40	-38.86	38.26	-62.46	-40.00	22.46	Vertical
4	10848.2700	30.64	-38.15	38.62	-64.14	-40.00	24.14	Vertical
5	13466.7	29.21	-36.46	39.94	-62.57	-40.00	22.57	Vertical
6	14464.3600	26.76	-34.53	41.09	-61.94	-40.00	21.94	Vertical



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Test Band = LTE Band48_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7362.1800	39.00	-42.99	36.22	-63.04	-40.00	23.04	Horizontal
2	8664.3	38.02	-41.18	36.47	-61.95	-40.00	21.95	Horizontal
3	9646.975	35.24	-39.33	37.53	-61.82	-40.00	21.82	Horizontal
4	11043.2700	30.54	-37.66	38.70	-63.68	-40.00	23.68	Horizontal
5	12511.05	29.20	-36.98	38.95	-64.08	-40.00	24.08	Horizontal
6	14724.3600	25.77	-34.82	41.19	-63.12	-40.00	23.12	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7362.1800	39.98	-42.99	36.22	-62.06	-40.00	22.06	Vertical
2	8738.475	37.62	-41.26	36.43	-62.47	-40.00	22.47	Vertical
3	10349.625	33.32	-38.85	38.37	-62.41	-40.00	22.41	Vertical
4	11043.2700	30.01	-37.66	38.70	-64.21	-40.00	24.21	Vertical
5	12876.75	29.74	-36.81	39.06	-63.27	-40.00	23.27	Vertical
6	14724.3600	25.97	-34.82	41.19	-62.92	-40.00	22.92	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

2) All antennas of RSE are tested, and only the worst data is presented.



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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	-9.70	-0.002676	PASS
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	-4.80	-0.001324	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	-2.90	-0.000800	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	6.10	0.001683	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	-6.50	-0.001793	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	-5.30	-0.001253	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	-5.90	-0.001628	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	1.70	0.000469	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	-0.60	-0.000166	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	0.70	0.000193	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	-2.40	-0.000662	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	-0.30	-0.000083	PASS

---End of Attachment---



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