



# Appendix B.1

## LTE Band 48



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

ANT6

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
Band48	5MHz	QPSK	55265	1RB#0	19.41	22.42	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#12	19.43	22.44	23.00	PASS
Band48	5MHz	QPSK	55265	1RB#24	19.33	22.34	23.00	PASS
Band48	5MHz	QPSK	55265	25RB#0	18.51	21.52	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#0	19.03	22.04	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#12	19.11	22.12	23.00	PASS
Band48	5MHz	QPSK	55990	1RB#24	18.98	21.99	23.00	PASS
Band48	5MHz	QPSK	55990	25RB#0	18.14	21.15	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#0	18.04	21.05	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#12	18.16	21.17	23.00	PASS
Band48	5MHz	QPSK	56715	1RB#24	18.05	21.06	23.00	PASS
Band48	5MHz	QPSK	56715	25RB#0	17.21	20.22	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#0	18.60	21.61	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#12	18.60	21.61	23.00	PASS
Band48	5MHz	16QAM	55265	1RB#24	18.58	21.59	23.00	PASS
Band48	5MHz	16QAM	55265	25RB#0	17.51	20.52	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#0	18.24	21.25	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#12	18.24	21.25	23.00	PASS
Band48	5MHz	16QAM	55990	1RB#24	18.19	21.2	23.00	PASS
Band48	5MHz	16QAM	55990	25RB#0	17.15	20.16	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#0	17.27	20.28	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#12	17.27	20.28	23.00	PASS
Band48	5MHz	16QAM	56715	1RB#24	17.30	20.31	23.00	PASS
Band48	5MHz	16QAM	56715	25RB#0	16.18	19.19	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#0	17.18	20.19	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#12	17.15	20.16	23.00	PASS
Band48	5MHz	64QAM	55265	1RB#24	17.12	20.13	23.00	PASS



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Band48	5MHz	64QAM	55265	25RB#0	16.52	19.53	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#0	16.80	19.81	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#12	16.77	19.78	23.00	PASS
Band48	5MHz	64QAM	55990	1RB#24	16.70	19.71	23.00	PASS
Band48	5MHz	64QAM	55990	25RB#0	16.17	19.18	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#0	15.80	18.81	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#12	15.82	18.83	23.00	PASS
Band48	5MHz	64QAM	56715	1RB#24	15.81	18.82	23.00	PASS
Band48	5MHz	64QAM	56715	25RB#0	15.22	18.23	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#0	14.37	17.38	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#12	14.43	17.44	23.00	PASS
Band48	5MHz	256QAM	55265	1RB#24	14.42	17.43	23.00	PASS
Band48	5MHz	256QAM	55265	25RB#0	14.51	17.52	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#0	13.95	16.96	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#12	13.97	16.98	23.00	PASS
Band48	5MHz	256QAM	55990	1RB#24	14.01	17.02	23.00	PASS
Band48	5MHz	256QAM	55990	25RB#0	13.97	16.98	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#0	14.11	17.12	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#12	14.15	17.16	23.00	PASS
Band48	5MHz	256QAM	56715	1RB#24	14.09	17.1	23.00	PASS
Band48	5MHz	256QAM	56715	25RB#0	14.07	17.08	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#0	19.38	22.39	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#24	19.40	22.41	23.00	PASS
Band48	10MHz	QPSK	55290	1RB#49	19.31	22.32	23.00	PASS
Band48	10MHz	QPSK	55290	50RB#0	18.48	21.49	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#0	19.06	22.07	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#24	19.04	22.05	23.00	PASS
Band48	10MHz	QPSK	55990	1RB#49	18.92	21.93	23.00	PASS
Band48	10MHz	QPSK	55990	50RB#0	18.14	21.15	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#0	18.05	21.06	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#24	18.13	21.14	23.00	PASS
Band48	10MHz	QPSK	56690	1RB#49	18.07	21.08	23.00	PASS
Band48	10MHz	QPSK	56690	50RB#0	17.20	20.21	23.00	PASS



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Band48	10MHz	16QAM	55290	1RB#0	18.58	21.59	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#24	18.59	21.6	23.00	PASS
Band48	10MHz	16QAM	55290	1RB#49	18.54	21.55	23.00	PASS
Band48	10MHz	16QAM	55290	50RB#0	17.49	20.5	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#0	18.25	21.26	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#24	18.25	21.26	23.00	PASS
Band48	10MHz	16QAM	55990	1RB#49	18.13	21.14	23.00	PASS
Band48	10MHz	16QAM	55990	50RB#0	17.17	20.18	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#0	17.26	20.27	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#24	17.29	20.3	23.00	PASS
Band48	10MHz	16QAM	56690	1RB#49	17.29	20.3	23.00	PASS
Band48	10MHz	16QAM	56690	50RB#0	16.22	19.23	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#0	17.16	20.17	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#24	17.15	20.16	23.00	PASS
Band48	10MHz	64QAM	55290	1RB#49	17.10	20.11	23.00	PASS
Band48	10MHz	64QAM	55290	50RB#0	16.46	19.47	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#0	16.82	19.83	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#24	16.80	19.81	23.00	PASS
Band48	10MHz	64QAM	55990	1RB#49	16.69	19.7	23.00	PASS
Band48	10MHz	64QAM	55990	50RB#0	16.13	19.14	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#0	15.79	18.8	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#24	15.81	18.82	23.00	PASS
Band48	10MHz	64QAM	56690	1RB#49	15.80	18.81	23.00	PASS
Band48	10MHz	64QAM	56690	50RB#0	15.18	18.19	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#0	14.32	17.33	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#24	14.30	17.31	23.00	PASS
Band48	10MHz	256QAM	55290	1RB#49	14.31	17.32	23.00	PASS
Band48	10MHz	256QAM	55290	50RB#0	14.38	17.39	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#0	13.98	16.99	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#24	13.97	16.98	23.00	PASS
Band48	10MHz	256QAM	55990	1RB#49	13.87	16.88	23.00	PASS
Band48	10MHz	256QAM	55990	50RB#0	14.04	17.05	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#0	12.95	15.96	23.00	PASS



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Band48	10MHz	256QAM	56690	1RB#24	13.02	16.03	23.00	PASS
Band48	10MHz	256QAM	56690	1RB#49	13.08	16.09	23.00	PASS
Band48	10MHz	256QAM	56690	50RB#0	13.19	16.2	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#0	19.29	22.3	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#38	19.34	22.35	23.00	PASS
Band48	15MHz	QPSK	55315	1RB#74	19.20	22.21	23.00	PASS
Band48	15MHz	QPSK	55315	75RB#0	18.44	21.45	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#0	19.01	22.02	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#38	19.01	22.02	23.00	PASS
Band48	15MHz	QPSK	55990	1RB#74	18.83	21.84	23.00	PASS
Band48	15MHz	QPSK	55990	75RB#0	18.07	21.08	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#0	17.93	20.94	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#38	18.04	21.05	23.00	PASS
Band48	15MHz	QPSK	56665	1RB#74	18.01	21.02	23.00	PASS
Band48	15MHz	QPSK	56665	75RB#0	17.15	20.16	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#0	18.53	21.54	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#38	18.55	21.56	23.00	PASS
Band48	15MHz	16QAM	55315	1RB#74	18.45	21.46	23.00	PASS
Band48	15MHz	16QAM	55315	75RB#0	17.42	20.43	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#0	18.25	21.26	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#38	18.22	21.23	23.00	PASS
Band48	15MHz	16QAM	55990	1RB#74	18.06	21.07	23.00	PASS
Band48	15MHz	16QAM	55990	75RB#0	17.09	20.1	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#0	17.18	20.19	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#38	17.27	20.28	23.00	PASS
Band48	15MHz	16QAM	56665	1RB#74	17.20	20.21	23.00	PASS
Band48	15MHz	16QAM	56665	75RB#0	16.17	19.18	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#0	17.10	20.11	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#38	17.11	20.12	23.00	PASS
Band48	15MHz	64QAM	55315	1RB#74	16.99	20	23.00	PASS
Band48	15MHz	64QAM	55315	75RB#0	16.41	19.42	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#0	16.80	19.81	23.00	PASS
Band48	15MHz	64QAM	55990	1RB#38	16.77	19.78	23.00	PASS



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Band48	15MHz	64QAM	55990	1RB#74	16.59	19.6	23.00	PASS
Band48	15MHz	64QAM	55990	75RB#0	16.06	19.07	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#0	15.71	18.72	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#38	15.81	18.82	23.00	PASS
Band48	15MHz	64QAM	56665	1RB#74	15.76	18.77	23.00	PASS
Band48	15MHz	64QAM	56665	75RB#0	15.13	18.14	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#0	14.31	17.32	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#38	14.28	17.29	23.00	PASS
Band48	15MHz	256QAM	55315	1RB#74	14.25	17.26	23.00	PASS
Band48	15MHz	256QAM	55315	75RB#0	14.38	17.39	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#0	13.98	16.99	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#38	13.94	16.95	23.00	PASS
Band48	15MHz	256QAM	55990	1RB#74	14.01	17.02	23.00	PASS
Band48	15MHz	256QAM	55990	75RB#0	14.07	17.08	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#0	12.13	15.14	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#38	12.24	15.25	23.00	PASS
Band48	15MHz	256QAM	56665	1RB#74	12.14	15.15	23.00	PASS
Band48	15MHz	256QAM	56665	75RB#0	12.33	15.34	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#0	19.28	22.29	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#49	19.33	22.34	23.00	PASS
Band48	20MHz	QPSK	55340	1RB#99	19.32	22.33	23.00	PASS
Band48	20MHz	QPSK	55340	100RB#0	18.46	21.47	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#0	19.02	22.03	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#49	18.94	21.95	23.00	PASS
Band48	20MHz	QPSK	55990	1RB#99	18.98	21.99	23.00	PASS
Band48	20MHz	QPSK	55990	100RB#0	18.21	21.22	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#0	17.98	20.99	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#49	18.07	21.08	23.00	PASS
Band48	20MHz	QPSK	56640	1RB#99	18.01	21.02	23.00	PASS
Band48	20MHz	QPSK	56640	100RB#0	17.24	20.25	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#0	17.45	20.46	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#49	17.33	20.34	23.00	PASS
Band48	20MHz	16QAM	55340	1RB#99	17.44	20.45	23.00	PASS



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Band48	20MHz	16QAM	55340	100RB#0	16.63	19.64	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#0	18.02	21.03	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#49	17.96	20.97	23.00	PASS
Band48	20MHz	16QAM	55990	1RB#99	17.88	20.89	23.00	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.10	20.11	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#0	17.22	20.23	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#49	17.26	20.27	23.00	PASS
Band48	20MHz	16QAM	56640	1RB#99	17.17	20.18	23.00	PASS
Band48	20MHz	16QAM	56640	100RB#0	16.43	19.44	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#0	17.06	20.07	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#49	17.13	20.14	23.00	PASS
Band48	20MHz	64QAM	55340	1RB#99	16.96	19.97	23.00	PASS
Band48	20MHz	64QAM	55340	100RB#0	16.43	19.44	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#0	16.77	19.78	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#49	16.79	19.8	23.00	PASS
Band48	20MHz	64QAM	55990	1RB#99	16.49	19.5	23.00	PASS
Band48	20MHz	64QAM	55990	100RB#0	16.05	19.06	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#0	15.69	18.7	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#49	15.78	18.79	23.00	PASS
Band48	20MHz	64QAM	56640	1RB#99	15.74	18.75	23.00	PASS
Band48	20MHz	64QAM	56640	100RB#0	15.12	18.13	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#0	14.23	17.24	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#49	14.02	17.03	23.00	PASS
Band48	20MHz	256QAM	55340	1RB#99	14.15	17.16	23.00	PASS
Band48	20MHz	256QAM	55340	100RB#0	14.31	17.32	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#0	13.97	16.98	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#49	13.92	16.93	23.00	PASS
Band48	20MHz	256QAM	55990	1RB#99	13.87	16.88	23.00	PASS
Band48	20MHz	256QAM	55990	100RB#0	14.01	17.02	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#0	13.23	16.24	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#49	13.43	16.44	23.00	PASS
Band48	20MHz	256QAM	56640	1RB#99	13.34	16.35	23.00	PASS
Band48	20MHz	256QAM	56640	100RB#0	13.51	16.52	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	7.54	13	PASS
Band48	20MHz	QPSK	55990	100RB#0	7.59	13	PASS
Band48	20MHz	QPSK	56640	100RB#0	7.57	13	PASS
Band48	20MHz	16QAM	55340	100RB#0	8.23	13	PASS
Band48	20MHz	16QAM	55990	100RB#0	8.32	13	PASS
Band48	20MHz	16QAM	56640	100RB#0	8.29	13	PASS
Band48	20MHz	64QAM	55340	100RB#0	8.35	13	PASS
Band48	20MHz	64QAM	55990	100RB#0	8.46	13	PASS
Band48	20MHz	64QAM	56640	100RB#0	8.46	13	PASS
Band48	20MHz	256QAM	55340	100RB#0	8.46	13	PASS
Band48	20MHz	256QAM	55990	100RB#0	8.49	13	PASS
Band48	20MHz	256QAM	56640	100RB#0	8.32	13	PASS



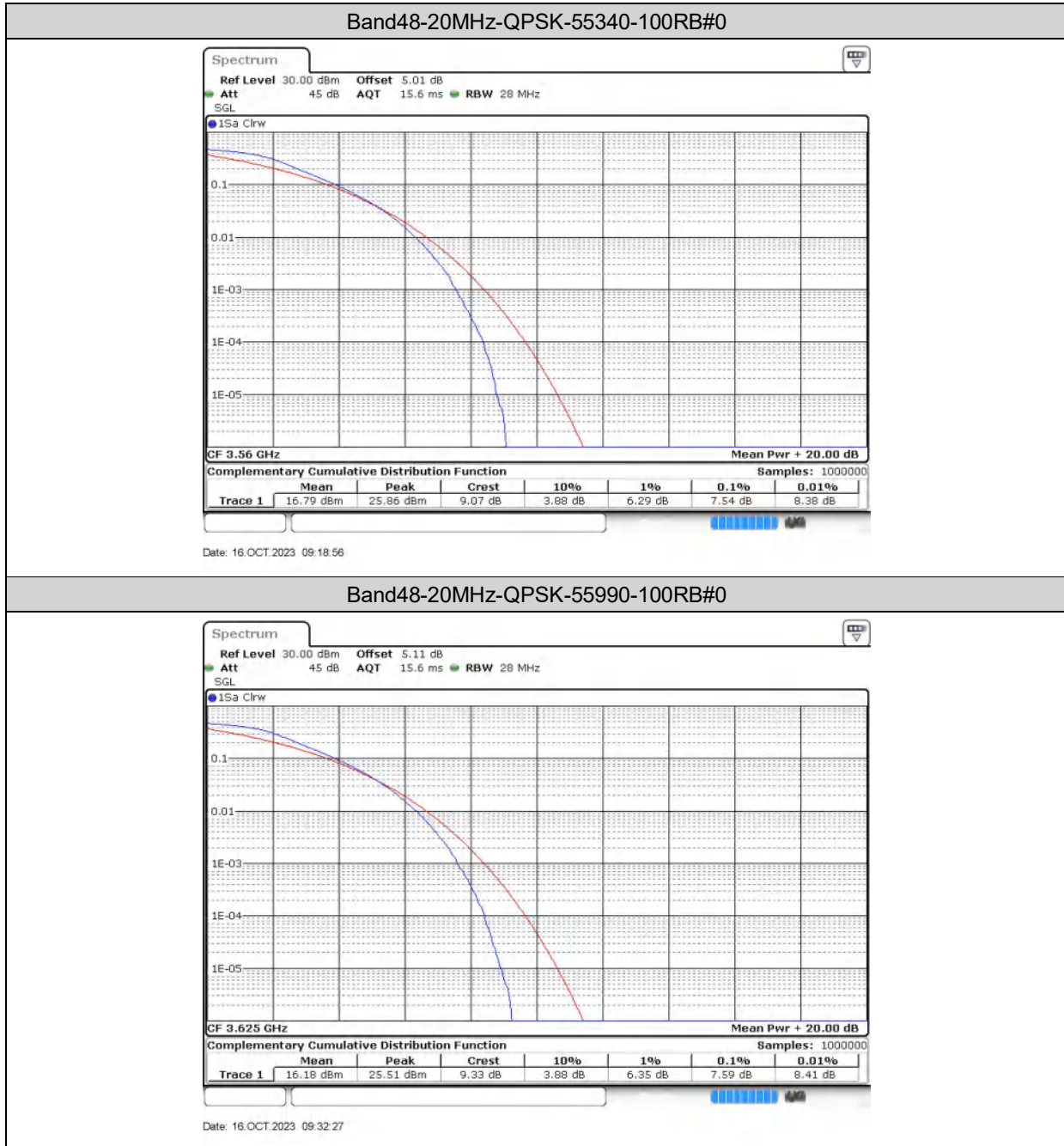
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**Test Graphs**

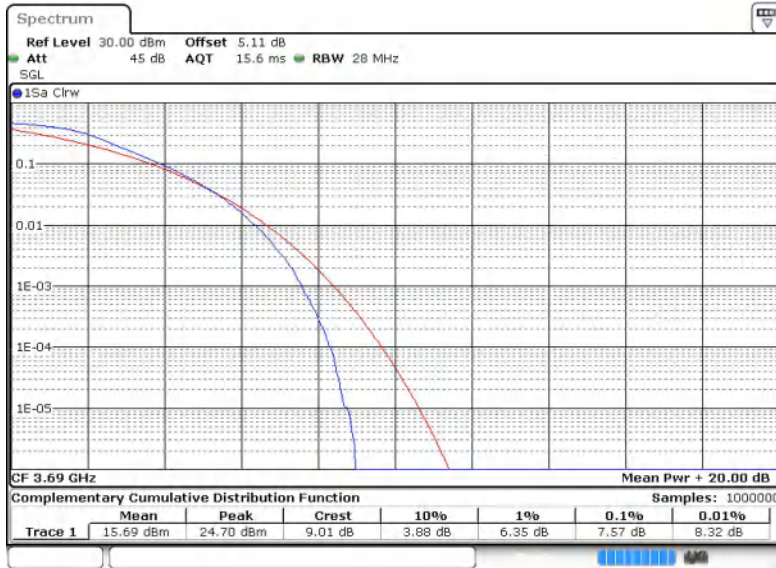


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**Band48-20MHz-QPSK-56640-100RB#0**



Date: 16.OCT.2023 09:39:32

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



Date: 16.OCT.2023 09:30:51

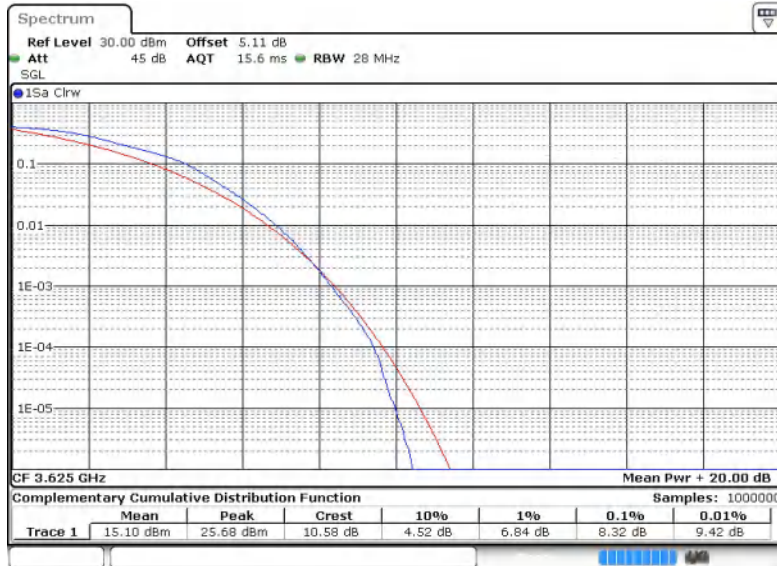


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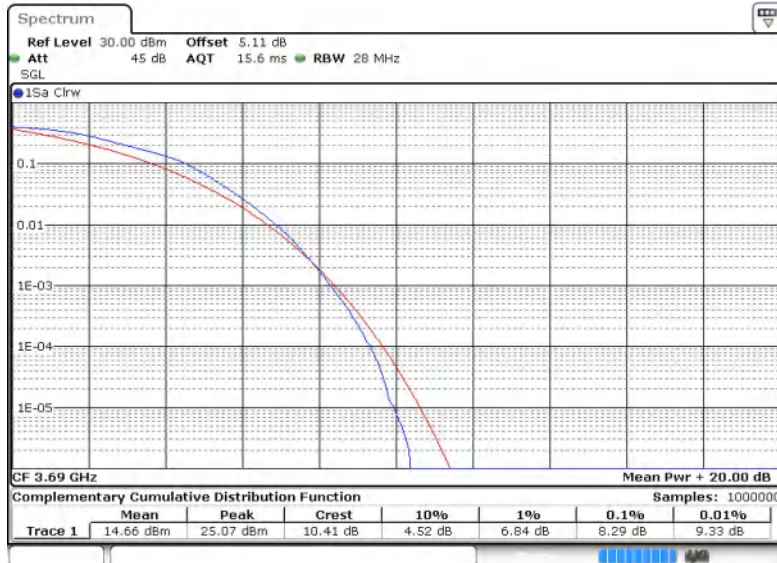
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### Band48-20MHz-16QAM-55990-100RB#0



Date: 16.OCT.2023 09:37:40

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



Date: 16.OCT.2023 09:50:59



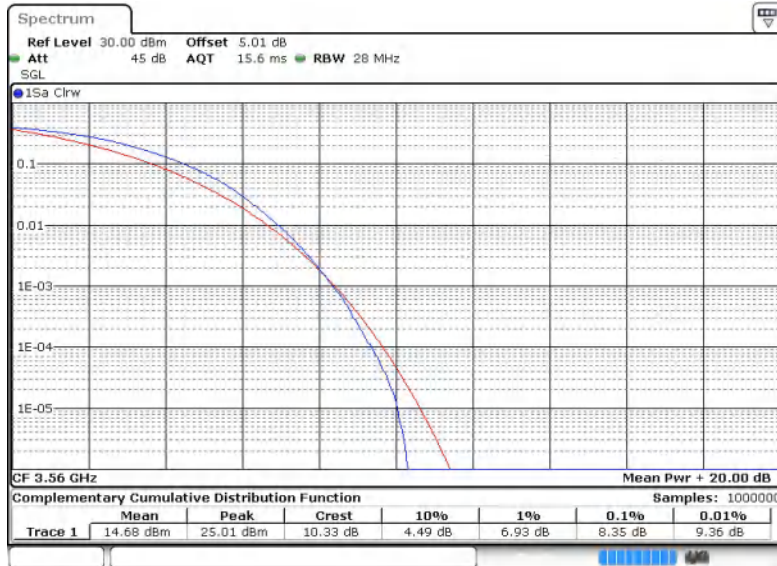
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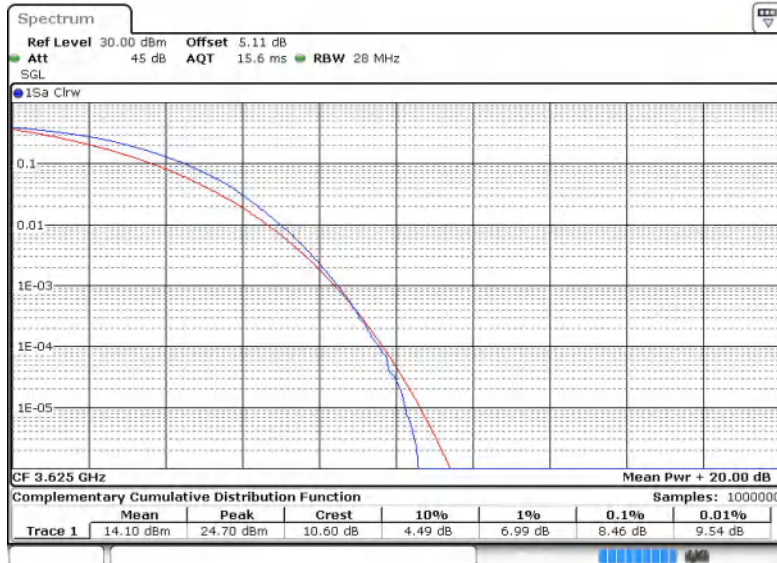


### Band48-20MHz-64QAM-55340-100RB#0



Date: 16.OCT.2023 09:53:11

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



Date: 16.OCT.2023 09:54:37



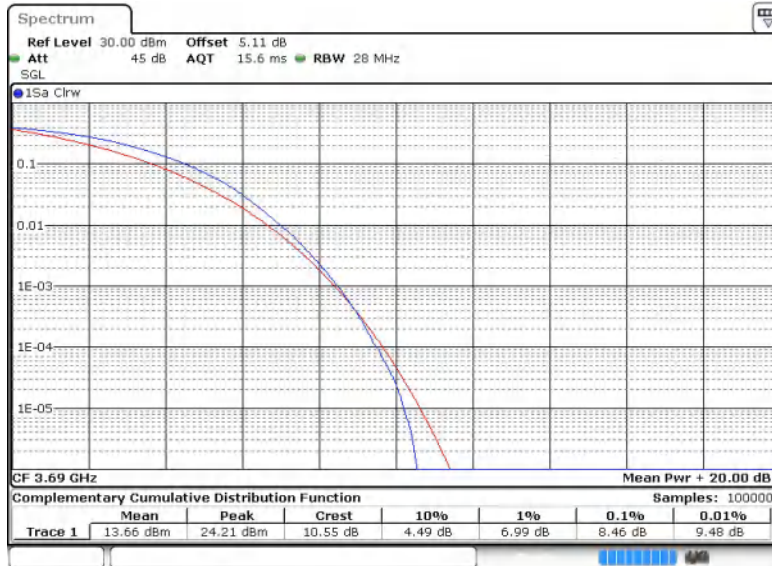
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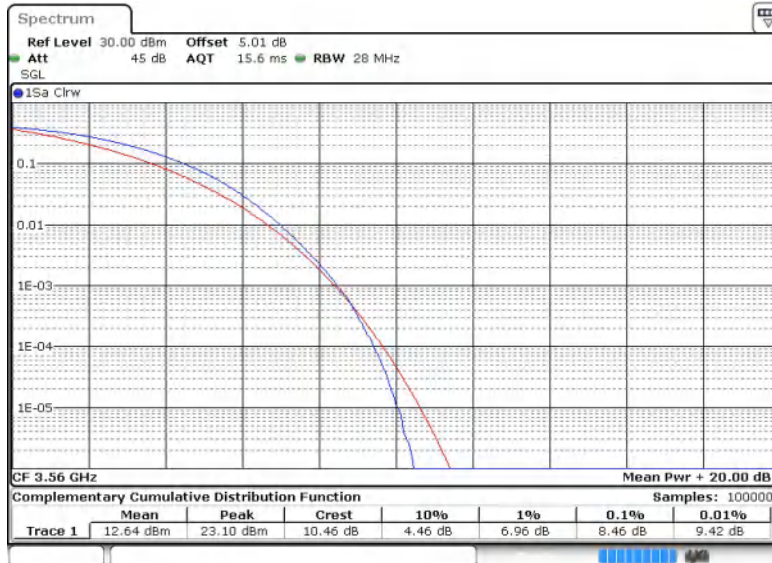


**Band48-20MHz-64QAM-56640-100RB#0**



Date: 16.OCT.2023 09:55:19

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



Date: 16.OCT.2023 10:02:56

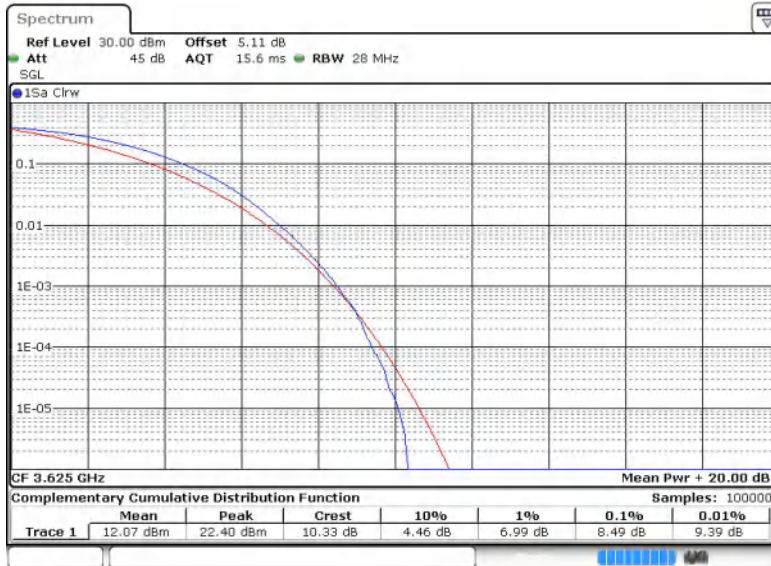


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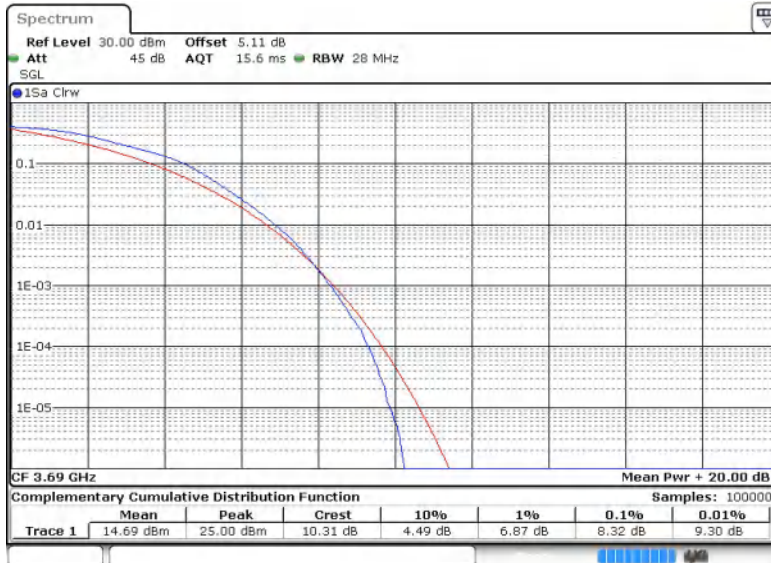
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**Band48-20MHz-256QAM-55990-100RB#0**



Date: 16.OCT.2023 10:03:52

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



Date: 16.OCT.2023 10:13:09



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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	55265	25RB#0	4.496	5.08	PASS
Band48	5MHz	QPSK	55990	25RB#0	4.496	5.13	PASS
Band48	5MHz	QPSK	56715	25RB#0	4.496	5.14	PASS
Band48	5MHz	16QAM	55265	25RB#0	4.496	5.07	PASS
Band48	5MHz	16QAM	55990	25RB#0	4.486	5.08	PASS
Band48	5MHz	16QAM	56715	25RB#0	4.496	5.08	PASS
Band48	5MHz	64QAM	55265	25RB#0	4.505	5.05	PASS
Band48	5MHz	64QAM	55990	25RB#0	4.505	5.07	PASS
Band48	5MHz	64QAM	56715	25RB#0	4.505	4.98	PASS
Band48	5MHz	256QAM	55265	25RB#0	4.496	5.11	PASS
Band48	5MHz	256QAM	55990	25RB#0	4.496	5.14	PASS
Band48	5MHz	256QAM	56715	25RB#0	4.496	5.05	PASS
Band48	10MHz	QPSK	55290	50RB#0	8.952	9.87	PASS
Band48	10MHz	QPSK	55990	50RB#0	8.952	9.73	PASS
Band48	10MHz	QPSK	56690	50RB#0	8.952	9.90	PASS
Band48	10MHz	16QAM	55290	50RB#0	8.952	9.57	PASS
Band48	10MHz	16QAM	55990	50RB#0	8.918	9.67	PASS
Band48	10MHz	16QAM	56690	50RB#0	8.918	9.73	PASS
Band48	10MHz	64QAM	55290	50RB#0	8.952	9.97	PASS
Band48	10MHz	64QAM	55990	50RB#0	8.952	9.83	PASS
Band48	10MHz	64QAM	56690	50RB#0	8.952	10.00	PASS
Band48	10MHz	256QAM	55290	50RB#0	8.918	9.70	PASS
Band48	10MHz	256QAM	55990	50RB#0	8.918	9.97	PASS
Band48	10MHz	256QAM	56690	50RB#0	8.918	9.70	PASS
Band48	15MHz	QPSK	55315	75RB#0	13.546	16.77	PASS
Band48	15MHz	QPSK	55990	75RB#0	13.487	14.79	PASS
Band48	15MHz	QPSK	56665	75RB#0	13.487	15.33	PASS
Band48	15MHz	16QAM	55315	75RB#0	13.546	17.31	PASS
Band48	15MHz	16QAM	55990	75RB#0	13.487	15.81	PASS
Band48	15MHz	16QAM	56665	75RB#0	13.487	15.12	PASS



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Band48	15MHz	64QAM	55315	75RB#0	13.516	17.01	PASS
Band48	15MHz	64QAM	55990	75RB#0	13.457	15.27	PASS
Band48	15MHz	64QAM	56665	75RB#0	13.487	15.06	PASS
Band48	15MHz	256QAM	55315	75RB#0	13.546	16.62	PASS
Band48	15MHz	256QAM	55990	75RB#0	13.516	15.63	PASS
Band48	15MHz	256QAM	56665	75RB#0	13.516	15.42	PASS
Band48	20MHz	QPSK	55340	100RB#0	17.903	20.07	PASS
Band48	20MHz	QPSK	55990	100RB#0	17.97	20.47	PASS
Band48	20MHz	QPSK	56640	100RB#0	17.97	20.20	PASS
Band48	20MHz	16QAM	55340	100RB#0	17.837	20.13	PASS
Band48	20MHz	16QAM	55990	100RB#0	17.903	20.00	PASS
Band48	20MHz	16QAM	56640	100RB#0	17.97	24.40	PASS
Band48	20MHz	64QAM	55340	100RB#0	17.903	20.07	PASS
Band48	20MHz	64QAM	55990	100RB#0	17.903	22.40	PASS
Band48	20MHz	64QAM	56640	100RB#0	17.97	22.27	PASS
Band48	20MHz	256QAM	55340	100RB#0	17.97	21.40	PASS
Band48	20MHz	256QAM	55990	100RB#0	17.97	22.20	PASS
Band48	20MHz	256QAM	56640	100RB#0	18.037	23.67	PASS



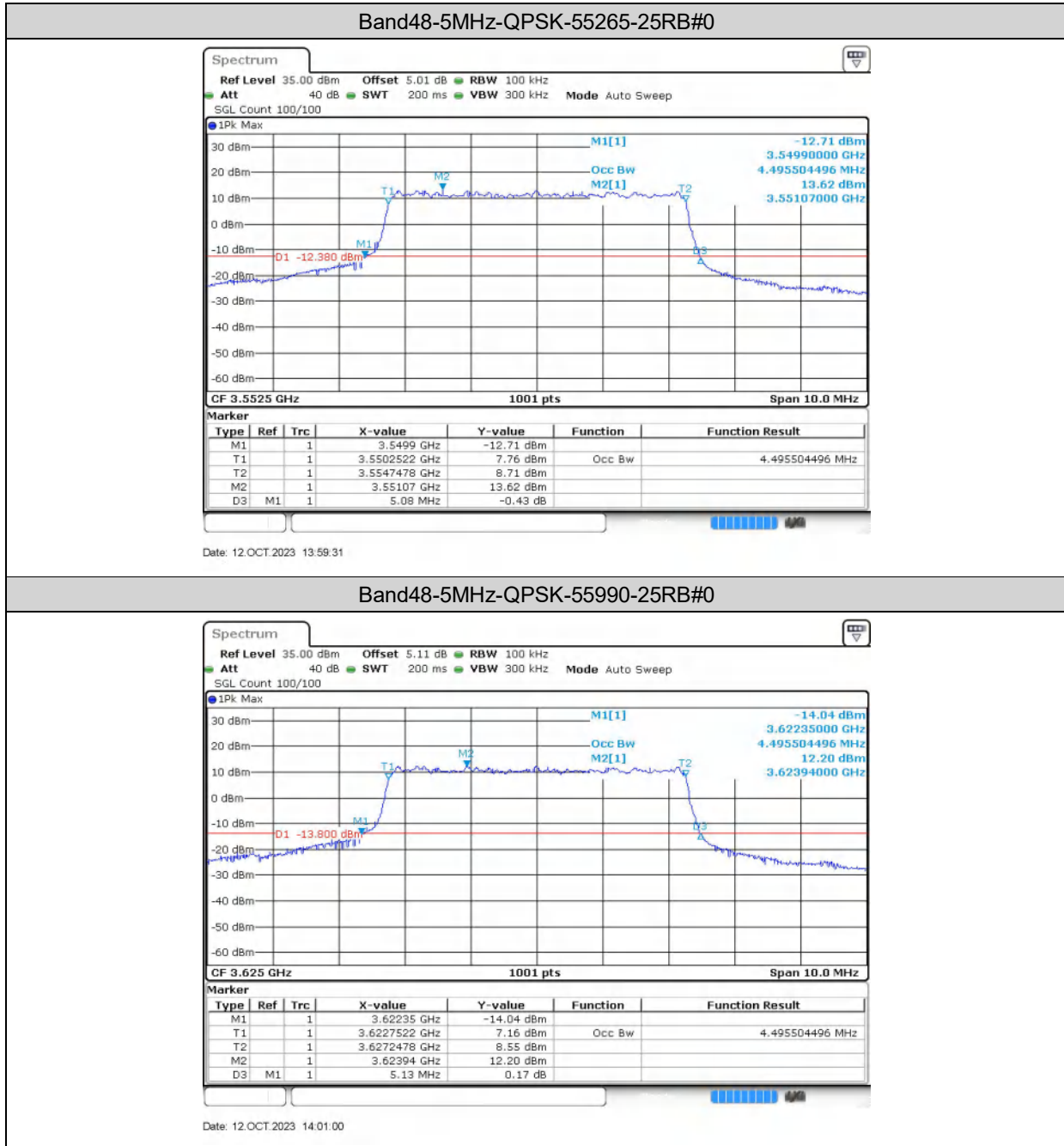
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**Test Graphs**

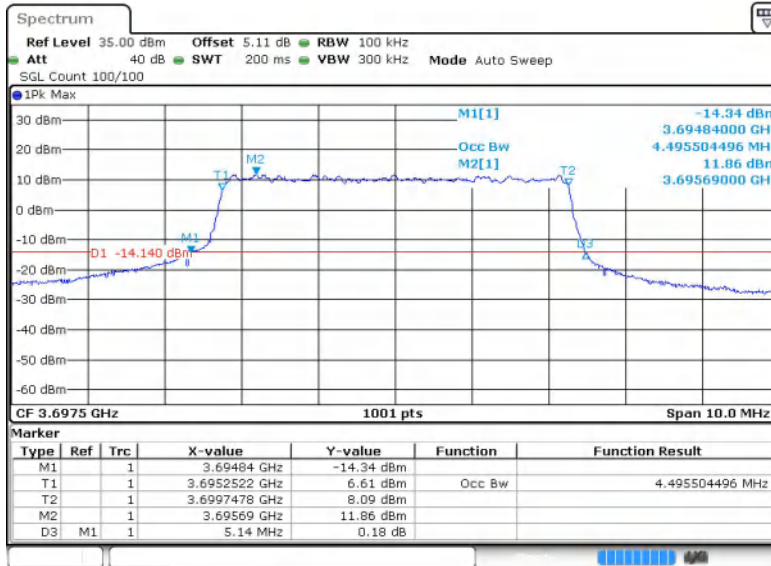


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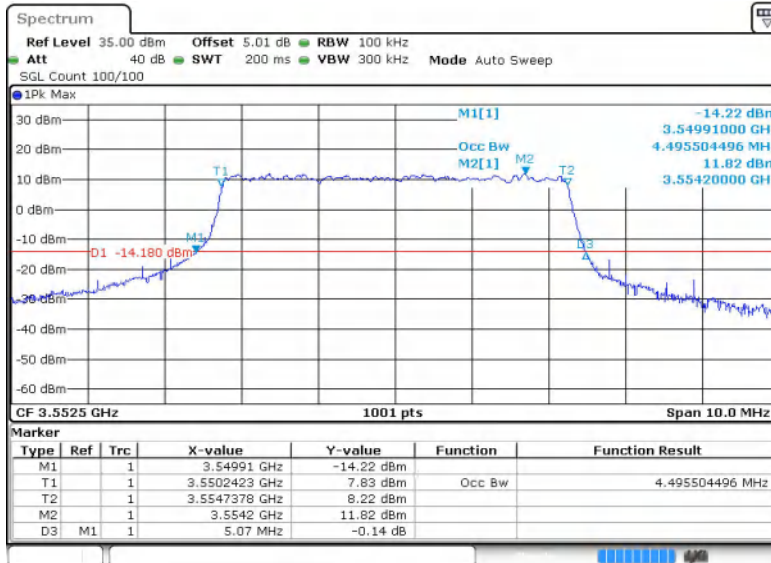
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**Band48-5MHz-QPSK-56715-25RB#0**



Date: 12.OCT.2023 14:02:07

**Band48-5MHz-16QAM-55265-25RB#0**



Date: 12.OCT.2023 14:00:26

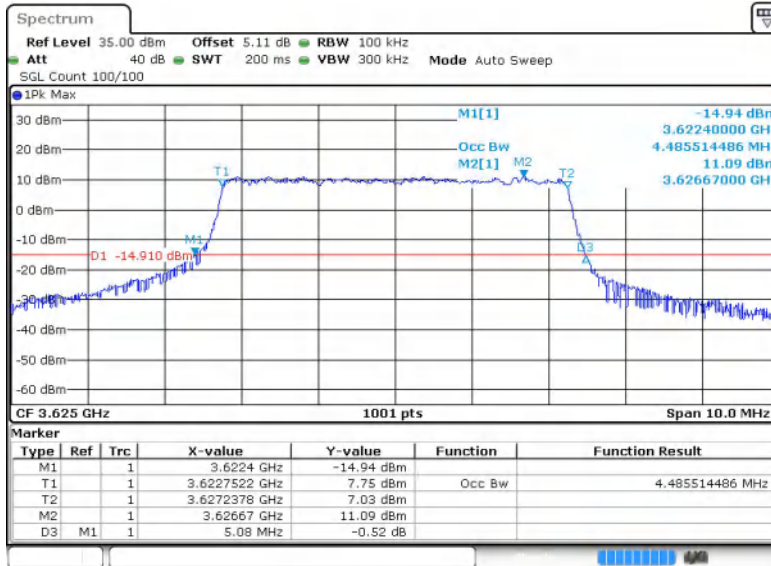


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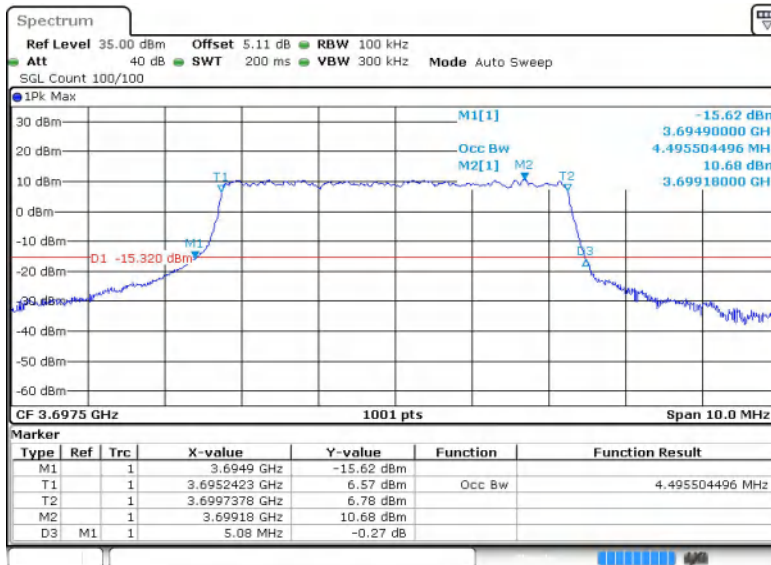
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### Band48-5MHz-16QAM-55990-25RB#0



### Band48-5MHz-16QAM-56715-25RB#0

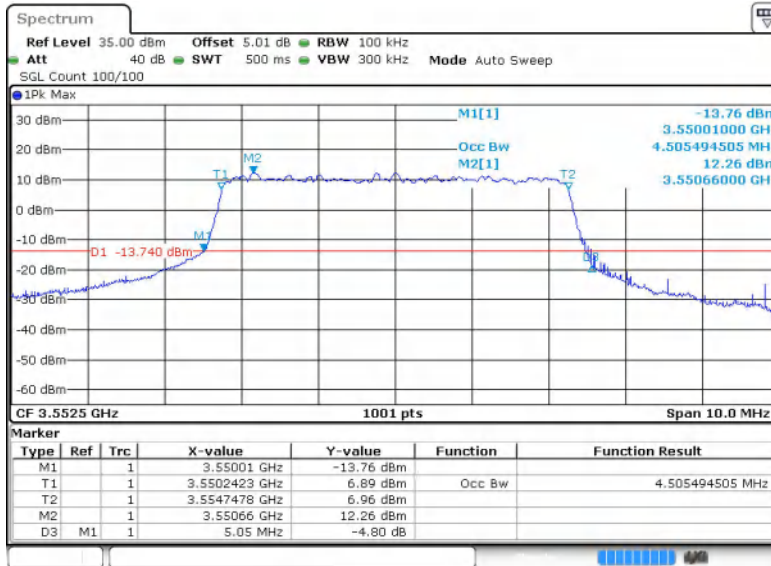


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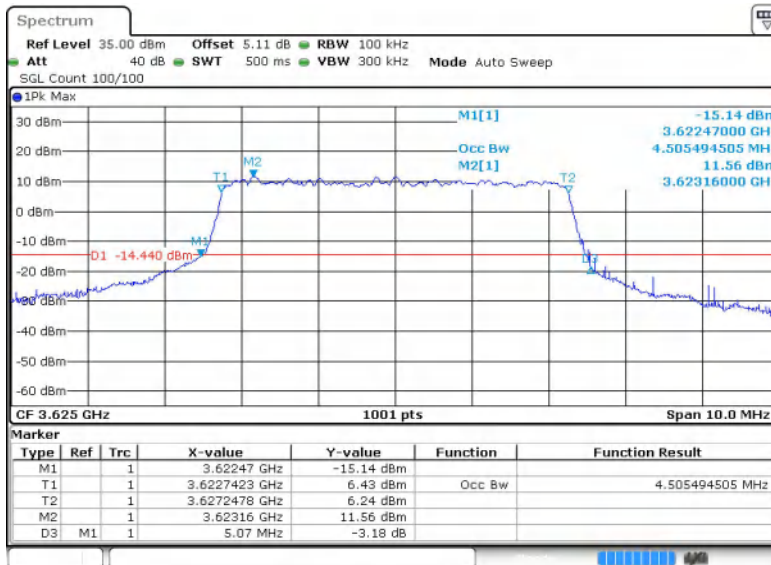
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### Band48-5MHz-64QAM-55265-25RB#0



Date: 15.OCT.2023 18:43:40

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



Date: 15.OCT.2023 18:44:44



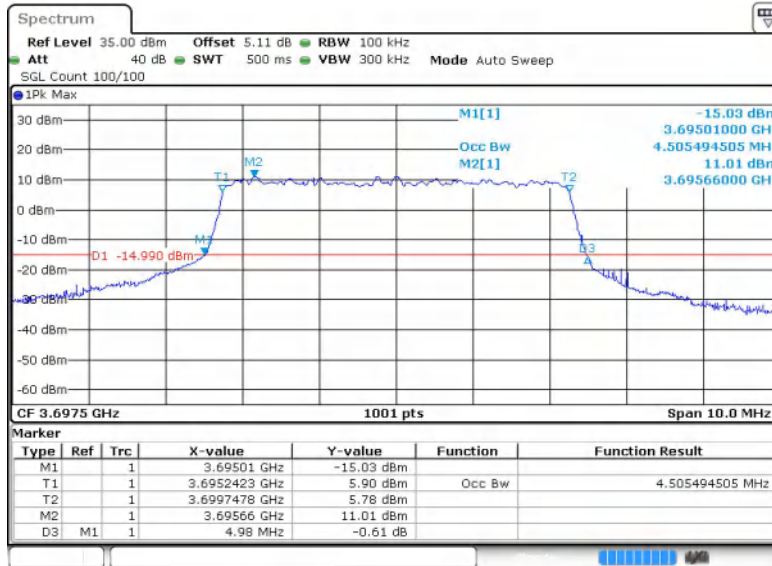
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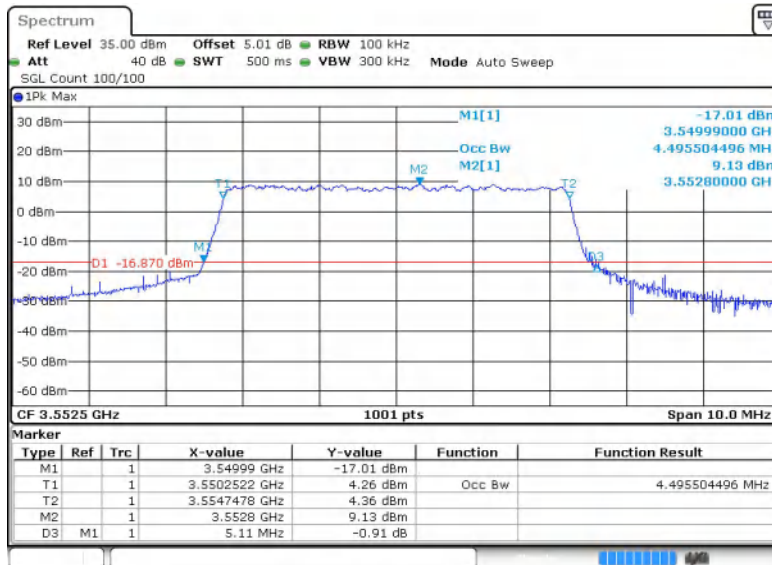


### Band48-5MHz-64QAM-56715-25RB#0



Date: 15.OCT.2023 18:45:50

### Band48-5MHz-256QAM-55265-25RB#0



Date: 18.OCT.2023 10:34:36

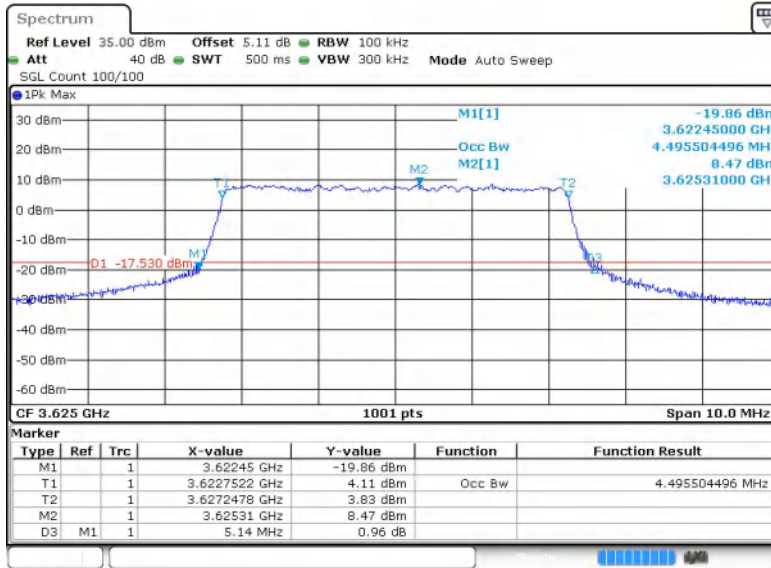


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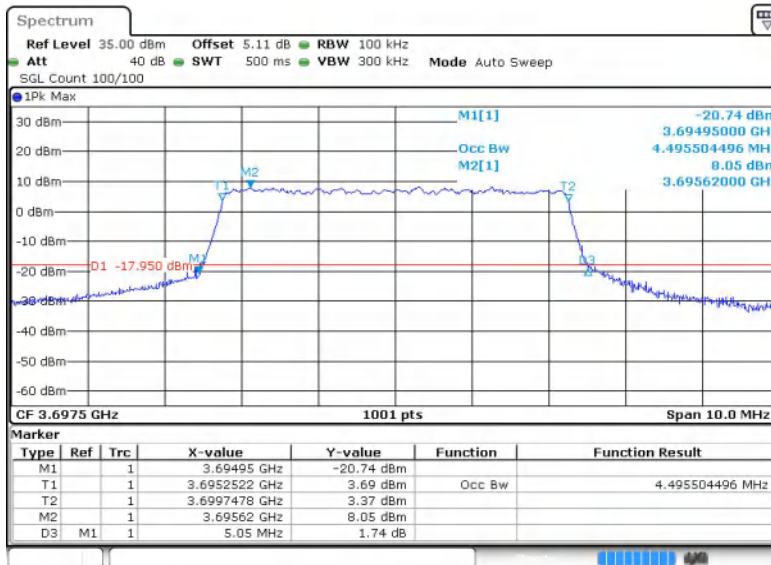
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### Band48-5MHz-256QAM-55990-25RB#0



Date: 18.OCT.2023 10:36:03

### Band48-5MHz-256QAM-56715-25RB#0



Date: 18.OCT.2023 10:37:29

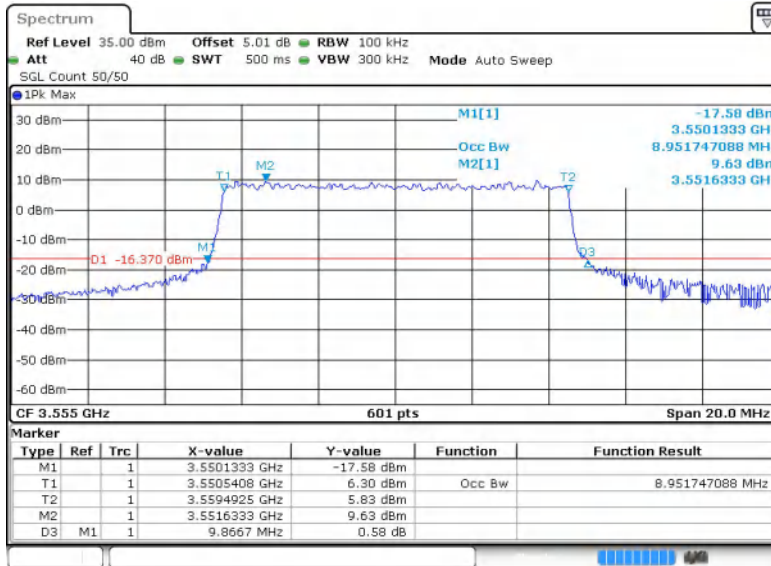


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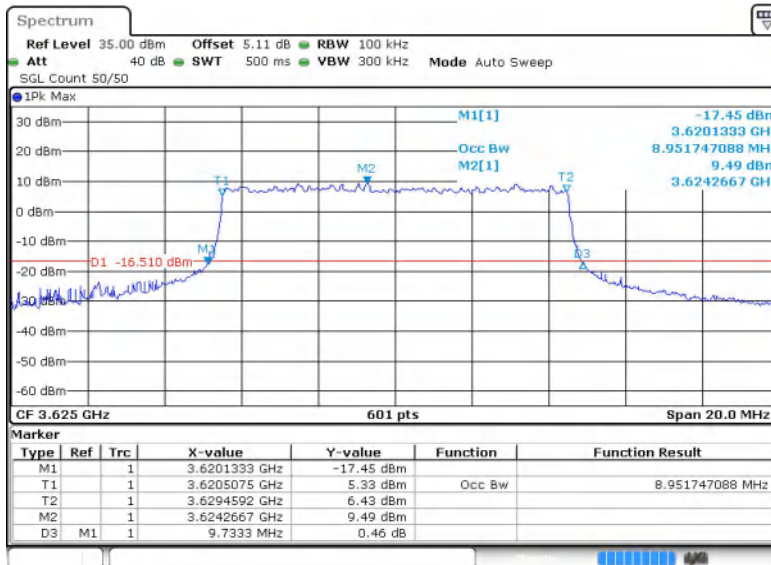
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### Band48-10MHz-QPSK-55290-50RB#0



Date: 15.NOV.2023 14:57:50

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



Date: 15.NOV.2023 14:58:53

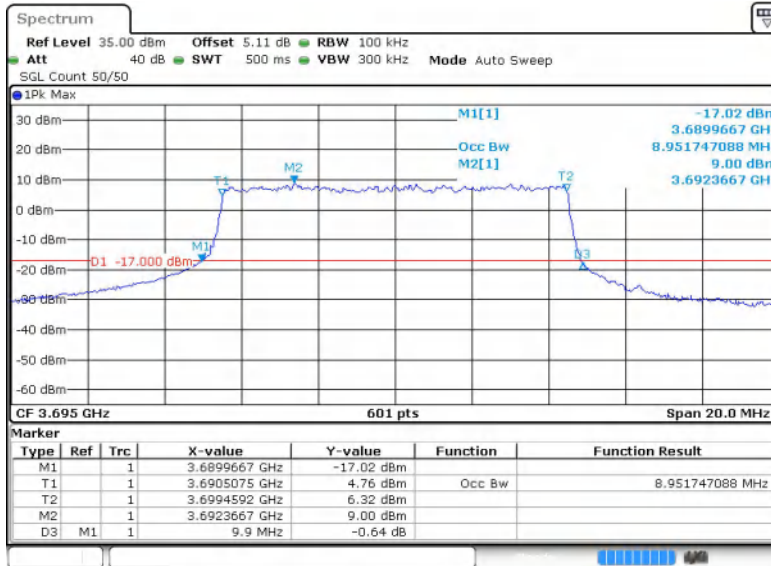


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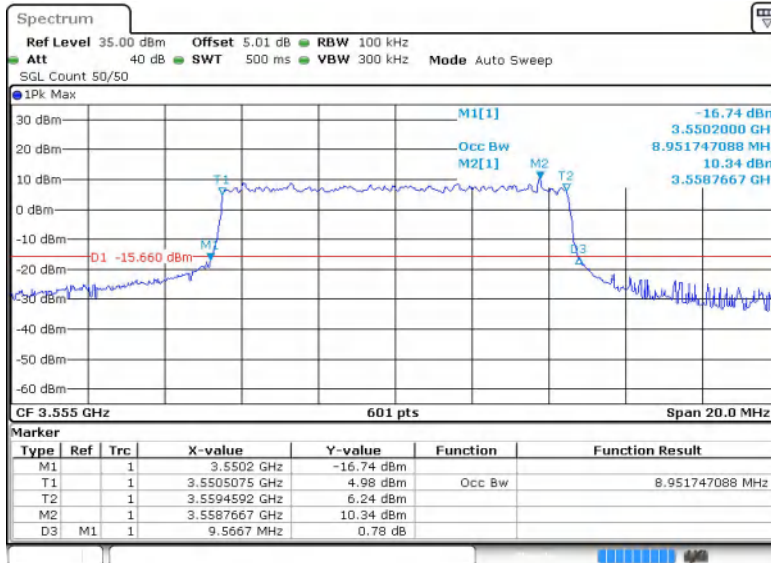
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### Band48-10MHz-QPSK-56690-50RB#0



Date: 15.NOV.2023 15:00:54

### Band48-10MHz-16QAM-55290-50RB#0



Date: 15.NOV.2023 14:58:21



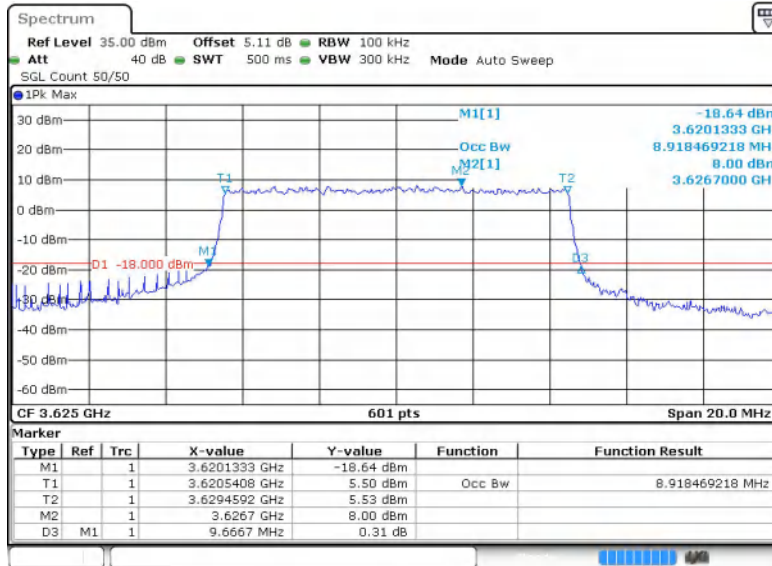
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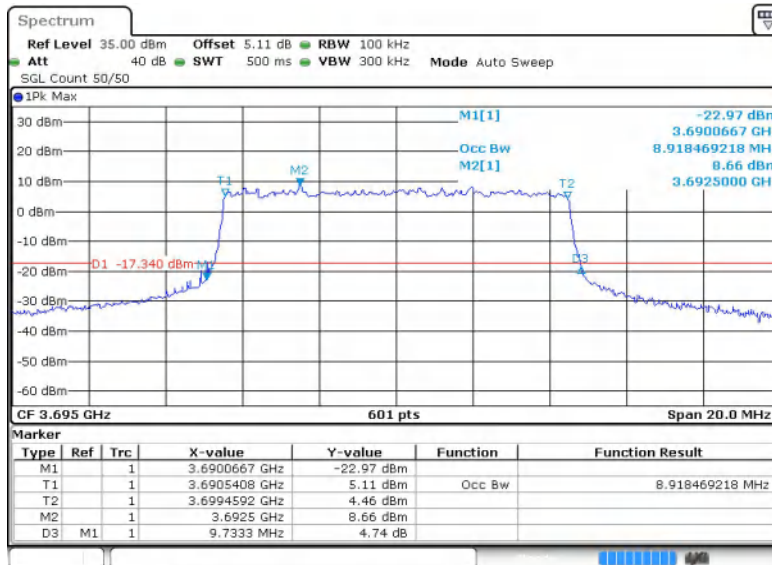


**Band48-10MHz- 16QAM-55990-50RB#0**



Date: 15.NOV.2023 15:00:20

**Band48-10MHz- 16QAM-56690-50RB#0**



Date: 15.NOV.2023 15:01:25

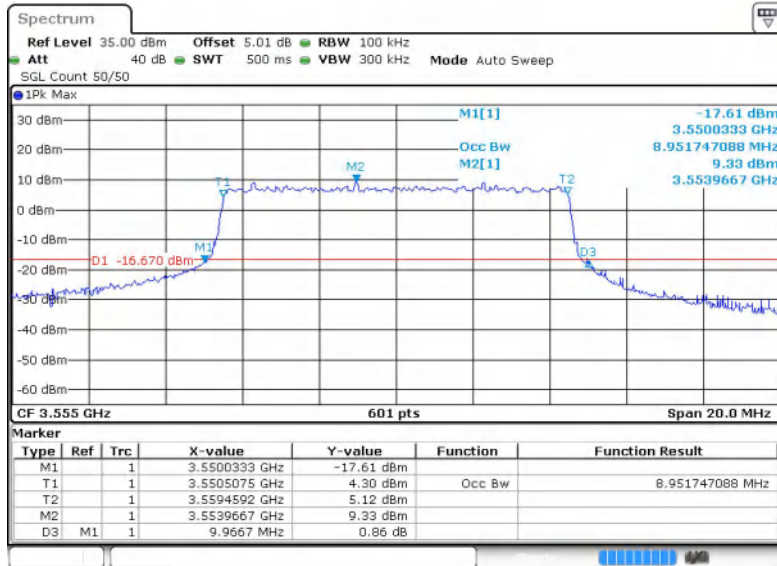


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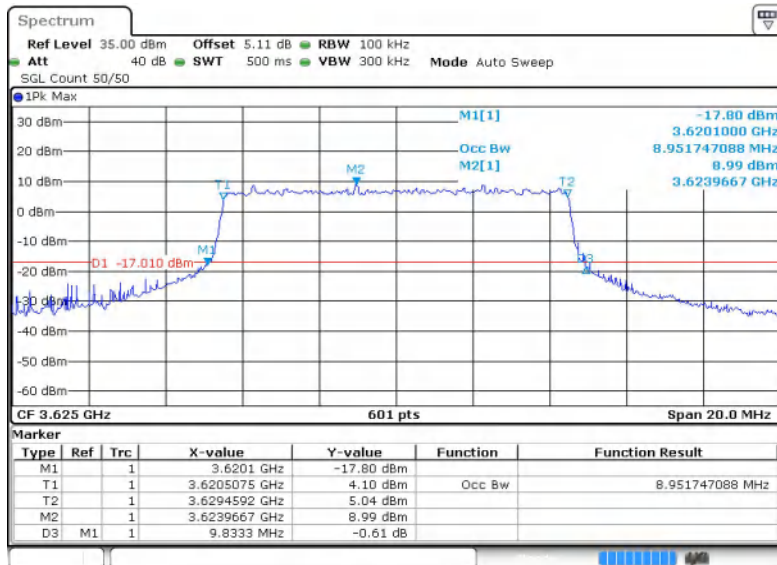
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### Band48-10MHz-64QAM-55290-50RB#0



Date: 15.NOV.2023 15:53:19

### Band48-10MHz-64QAM-55990-50RB#0



Date: 15.NOV.2023 15:53:58

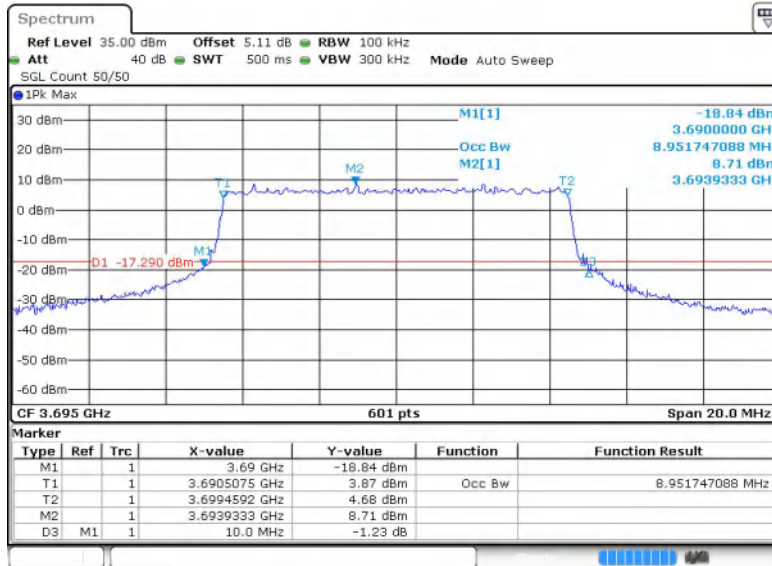


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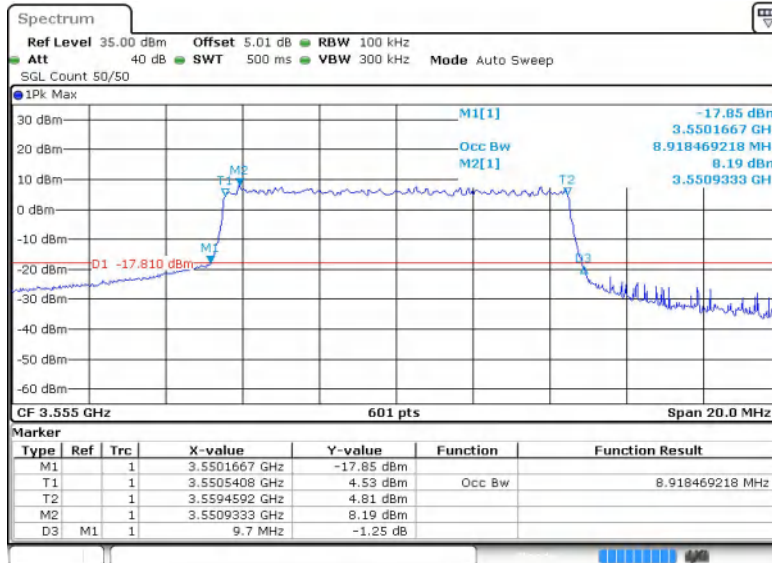
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### Band48-10MHz-64QAM-56690-50RB#0



Date: 15.NOV.2023 15:54:37

### Band48-10MHz-256QAM-55290-50RB#0



Date: 15.NOV.2023 16:10:38

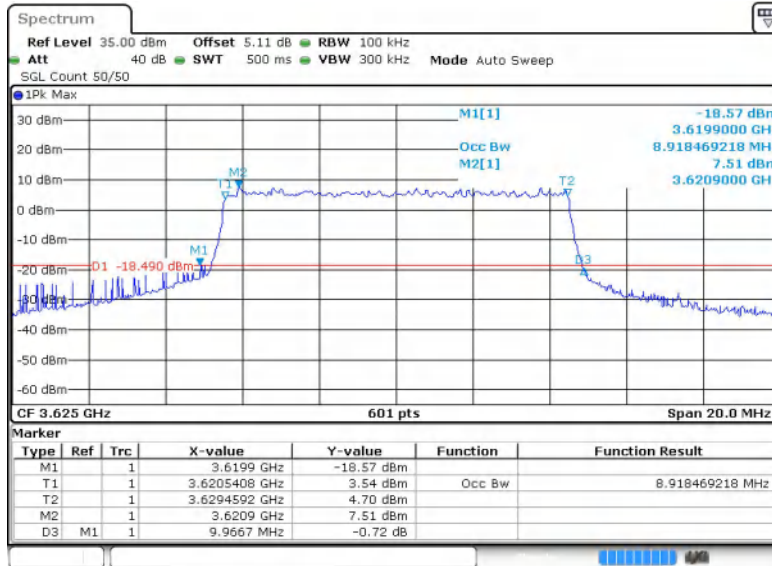


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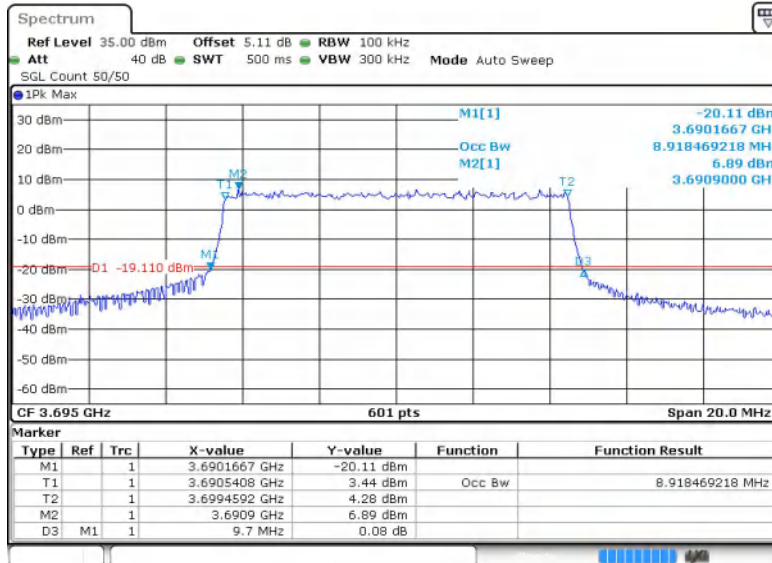
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### Band48-10MHz-256QAM-55990-50RB#0



Date: 15.NOV.2023 16:11:09

### Band48-10MHz-256QAM-56690-50RB#0



Date: 15.NOV.2023 16:11:40



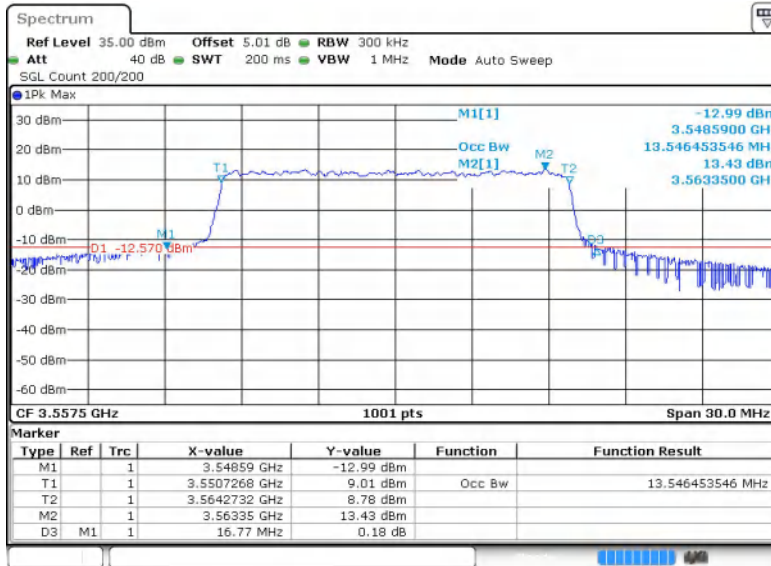
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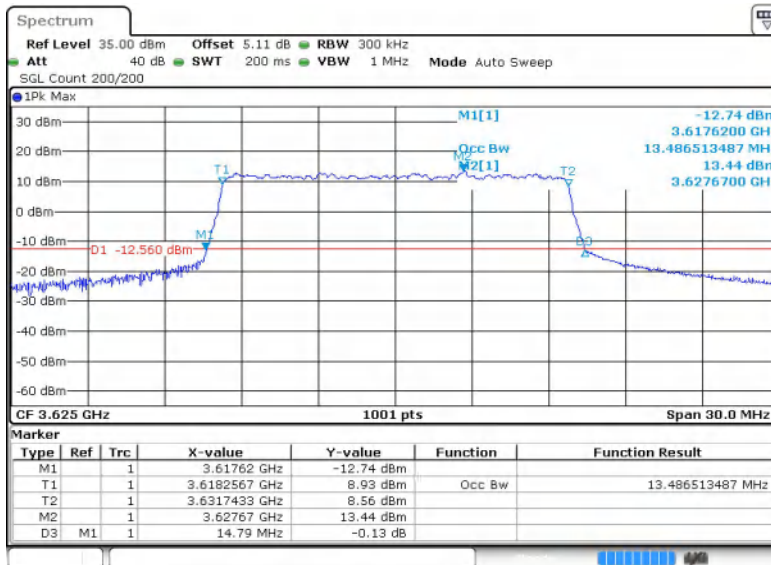


### Band48-15MHz-QPSK-55315-75RB#0



Date: 12.OCT.2023 14:45:08

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



Date: 12.OCT.2023 14:59:51

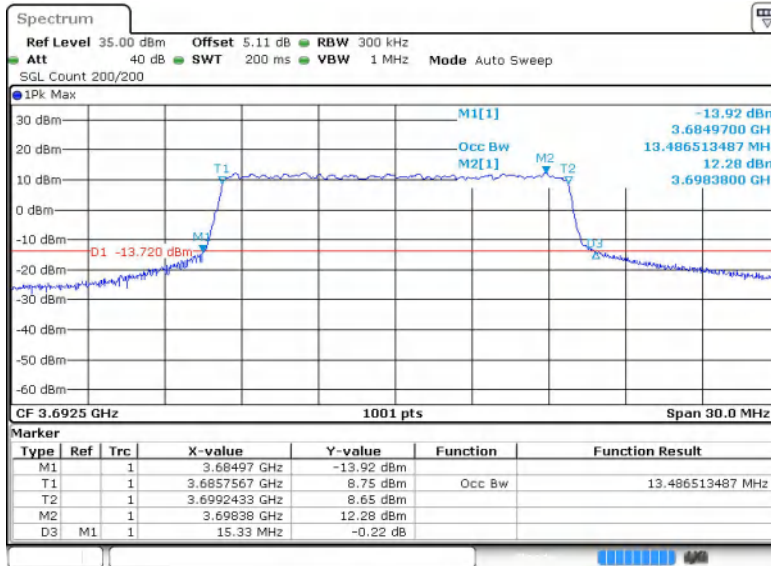


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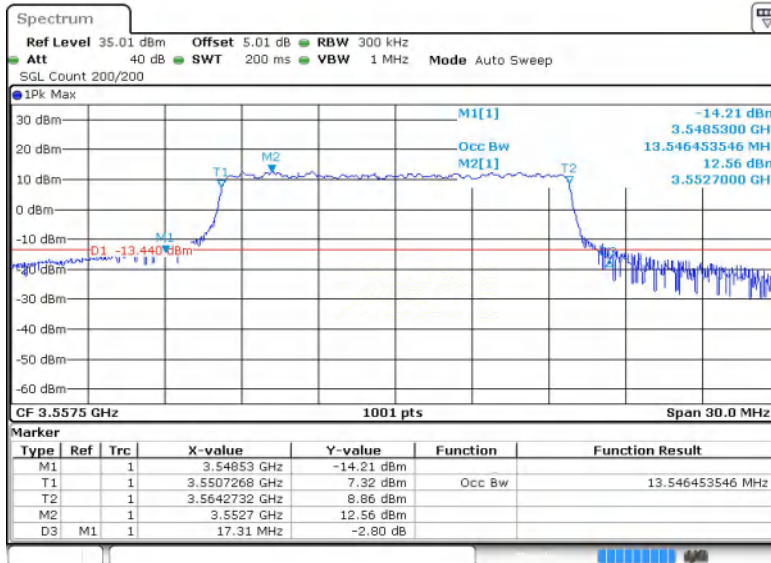
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**Band48-15MHz-QPSK-56665-75RB#0**



Date: 12.OCT.2023 15:15:13

**Band48-15MHz-16QAM-55315-75RB#0**



Date: 12.OCT.2023 14:54:56

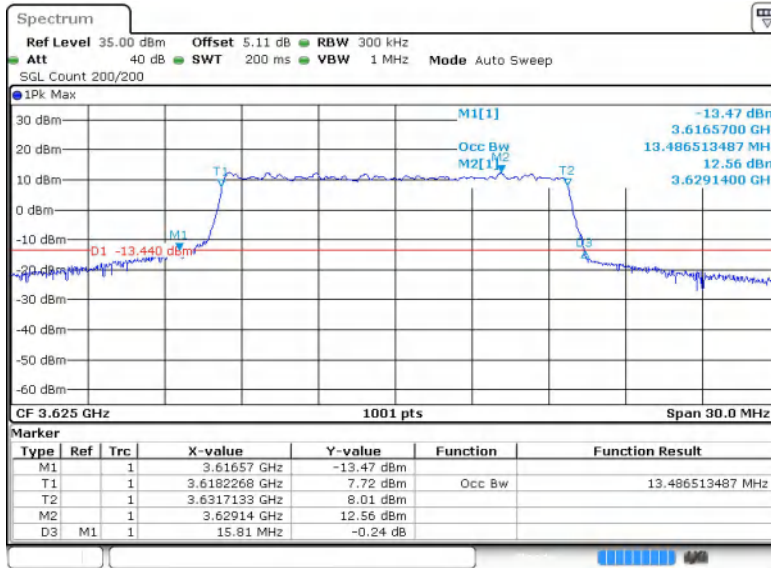


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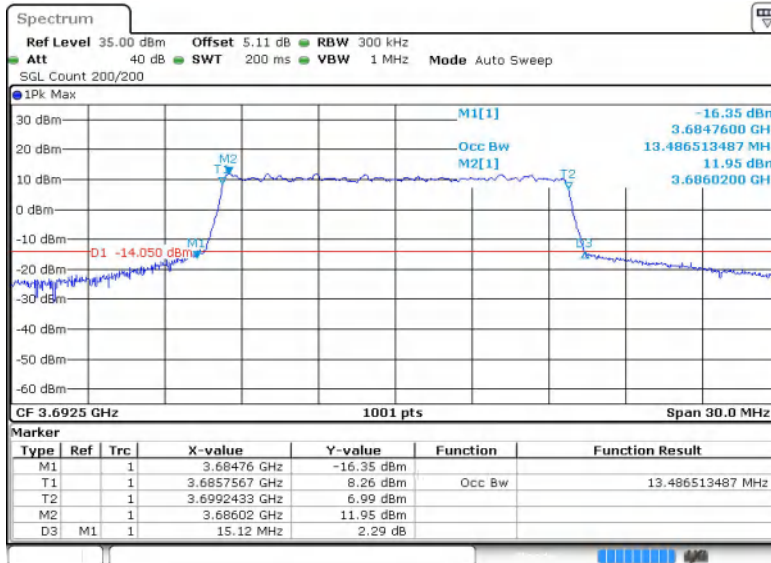
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**Band48-15MHz- 16QAM-55990-75RB#0**



Date: 12.OCT.2023 15:00:45

**Band48-15MHz- 16QAM-56665-75RB#0**



Date: 12.OCT.2023 15:16:17

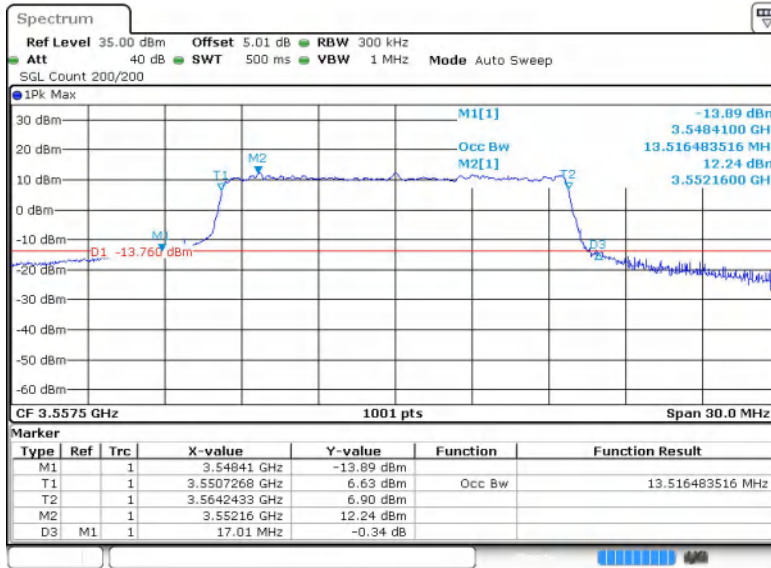


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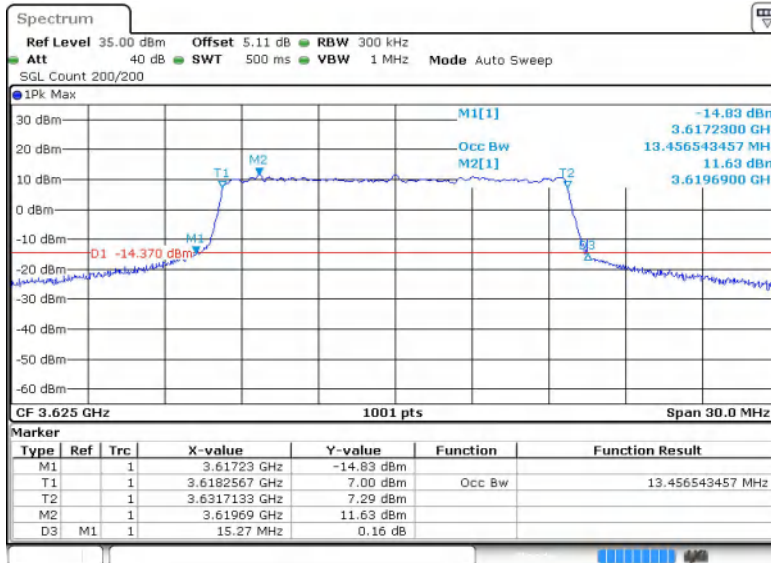
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### Band48-15MHz-64QAM-55315-75RB#0



Date: 15.OCT.2023 18:51:18

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



Date: 15.OCT.2023 18:53:15



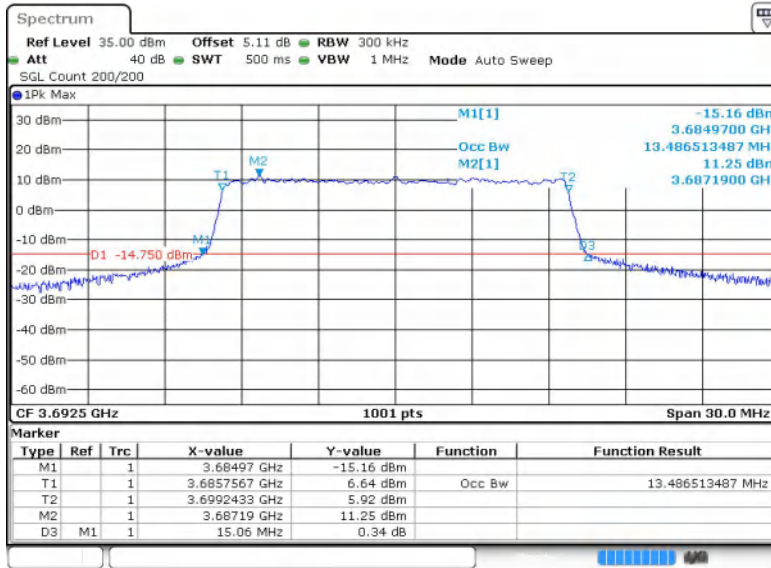
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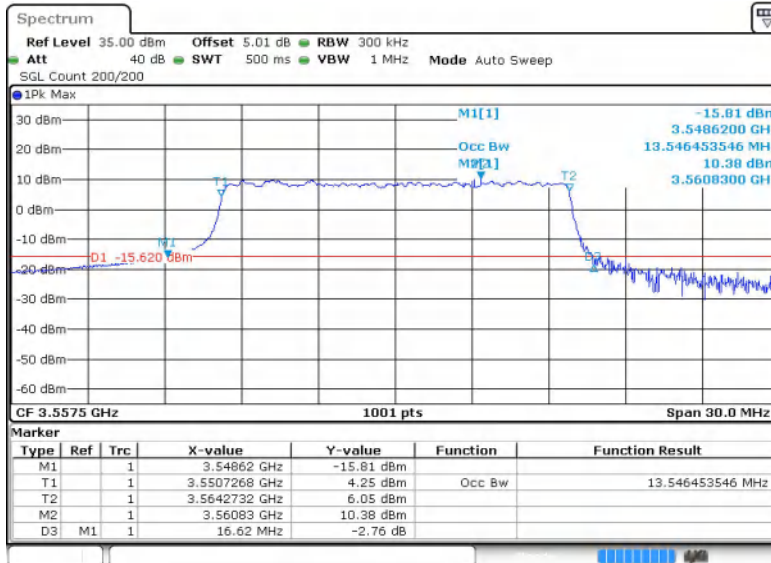


### Band48-15MHz-64QAM-56665-75RB#0



Date: 15.OCT.2023 18:55:11

### Band48-15MHz-256QAM-55315-75RB#0



Date: 18.OCT.2023 10:48:35

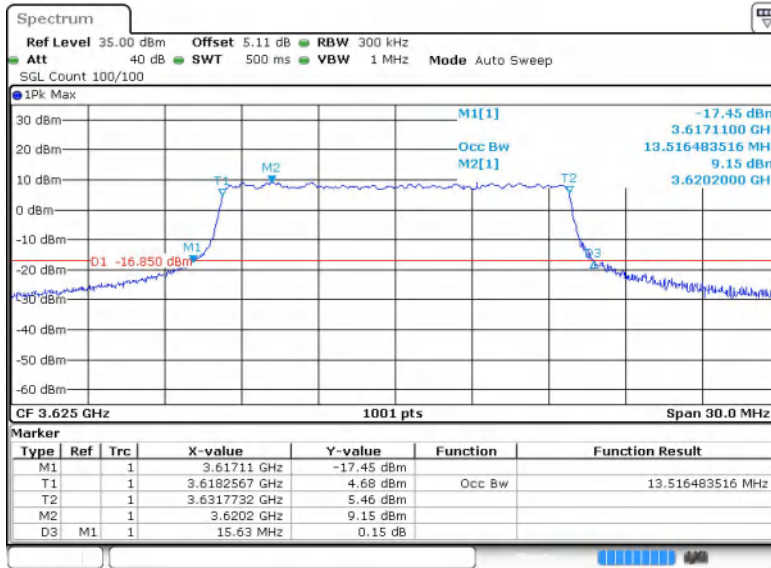


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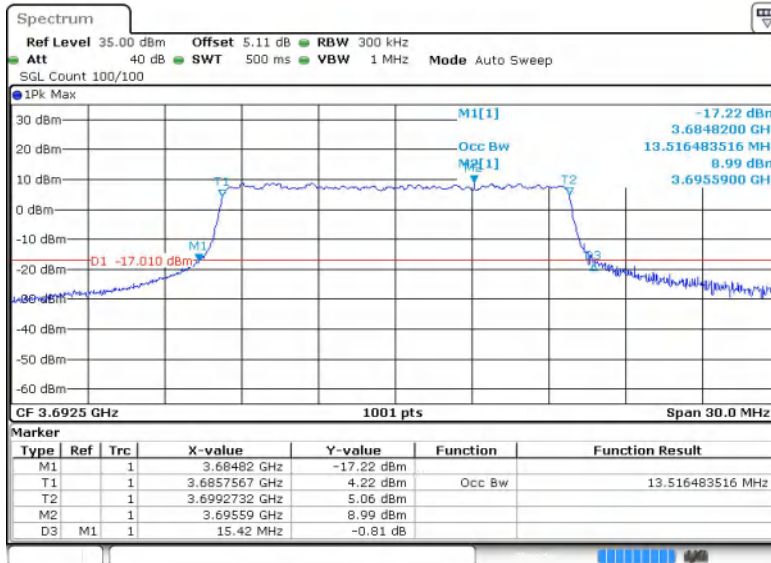
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### Band48-15MHz-256QAM-55990-75RB#0



Date: 18.OCT.2023 10:50:12

### Band48-15MHz-256QAM-56665-75RB#0



Date: 18.OCT.2023 10:53:07

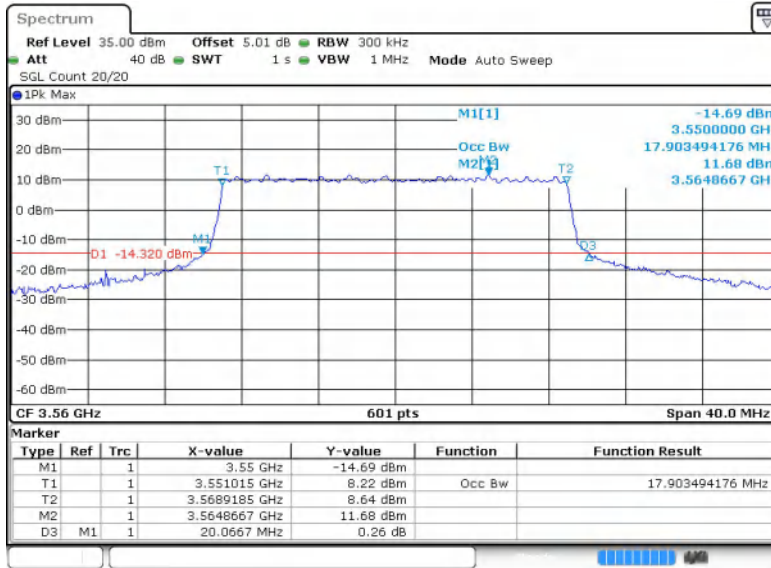


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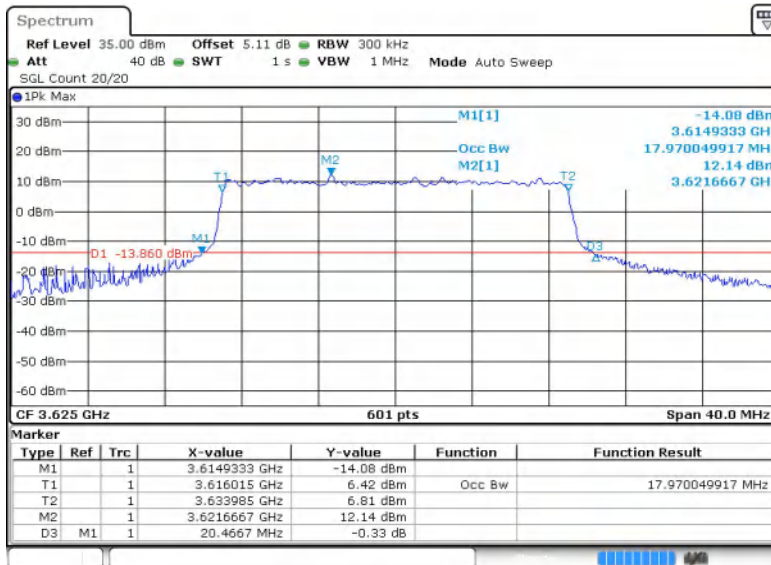
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### Band48-20MHz-QPSK-55340-100RB#0



Date: 15.NOV.2023 15:04:13

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



Date: 15.NOV.2023 15:05:03

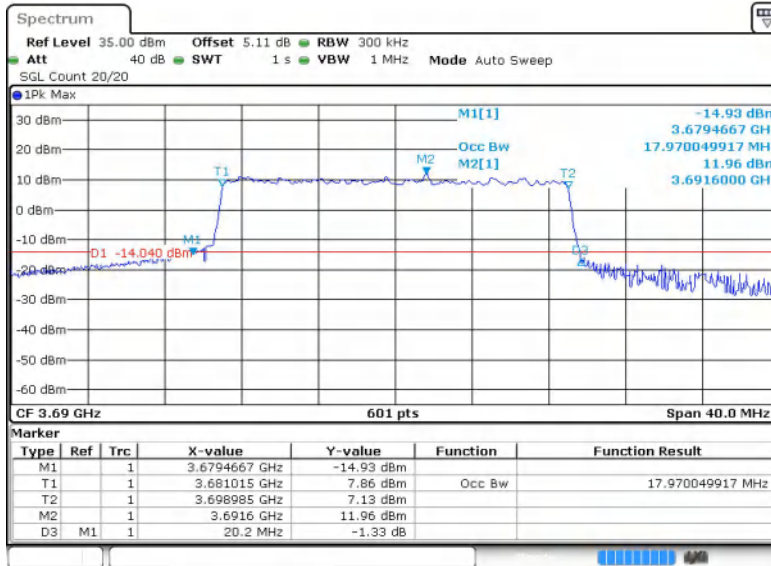


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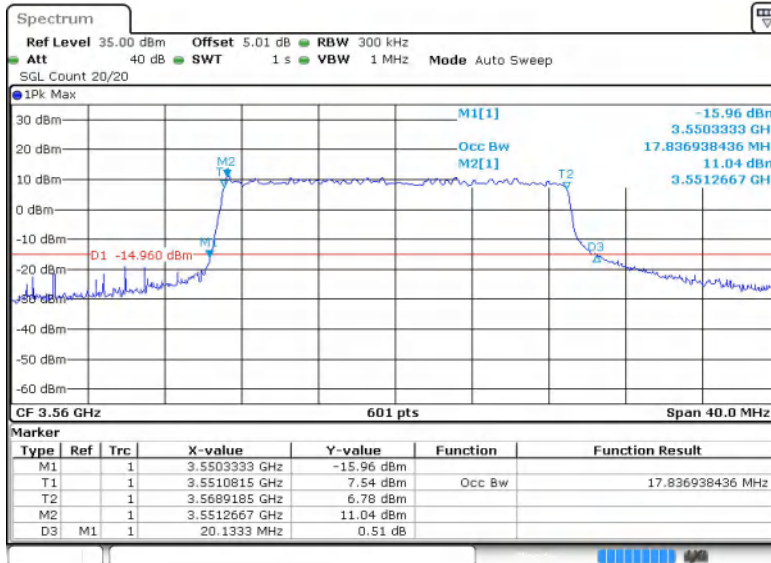
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### Band48-20MHz-QPSK-56640-100RB#0



Date: 15.NOV.2023 15:05:55

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



Date: 15.NOV.2023 15:04:37



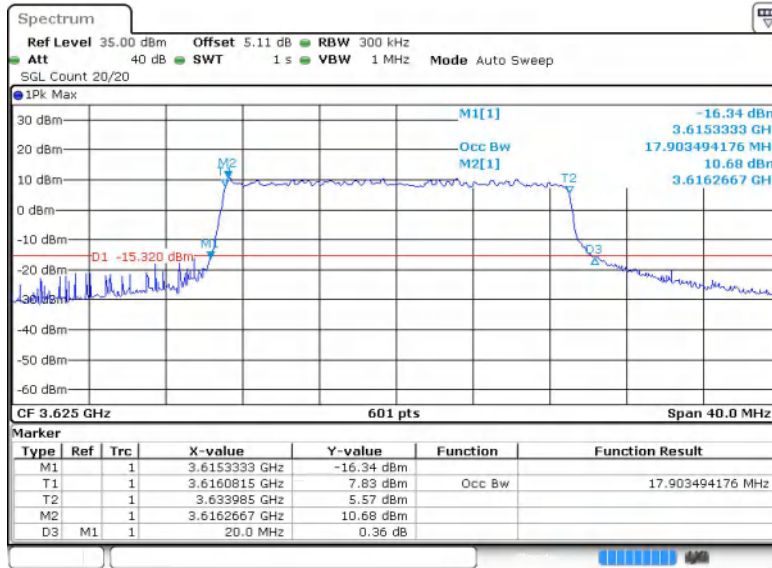
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**Band48-20MHz-16QAM-55990-100RB#0**



Date: 15.NOV.2023 15:11:58

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



Date: 15.NOV.2023 15:06:19

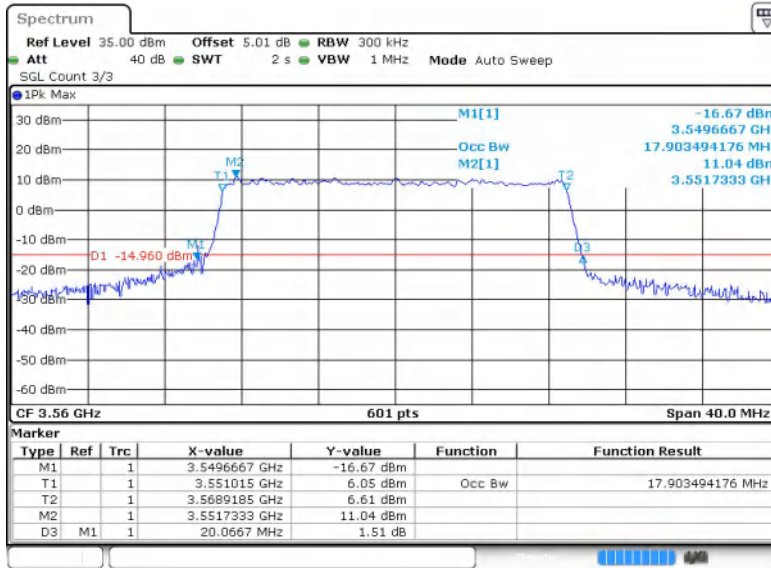


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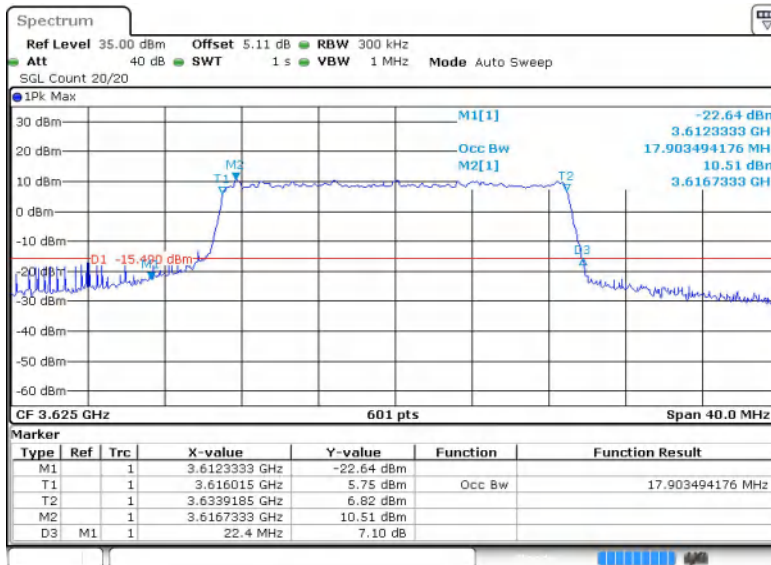
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### Band48-20MHz-64QAM-55340-100RB#0



Date: 15.NOV.2023 16:00:00

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



Date: 15.NOV.2023 16:03:51

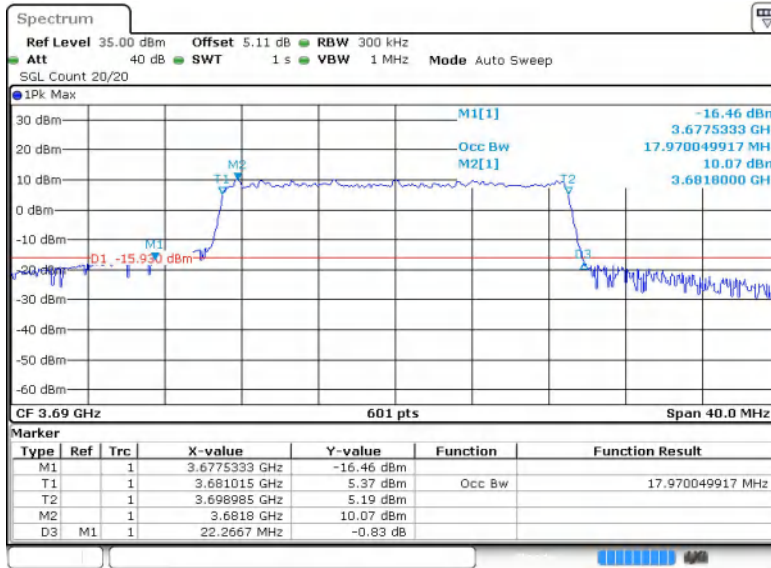


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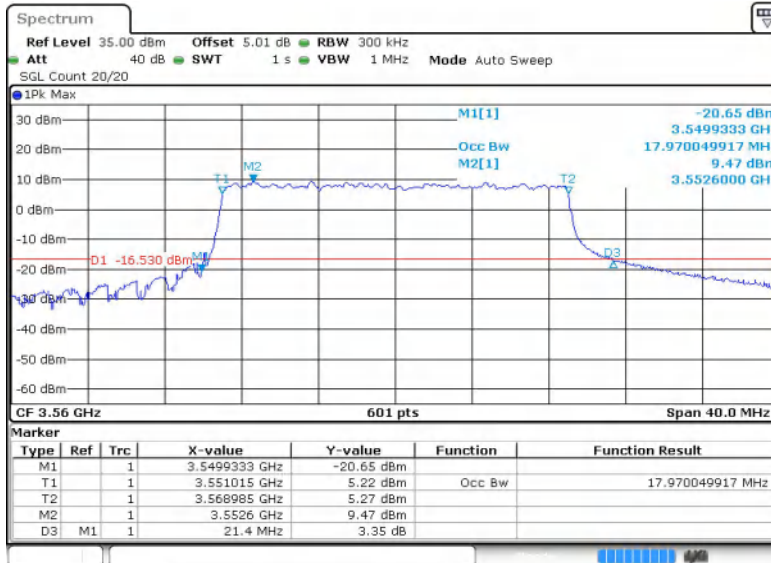
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**Band48-20MHz-64QAM-56640-100RB#0**



Date: 15.NOV.2023 16:02:13

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



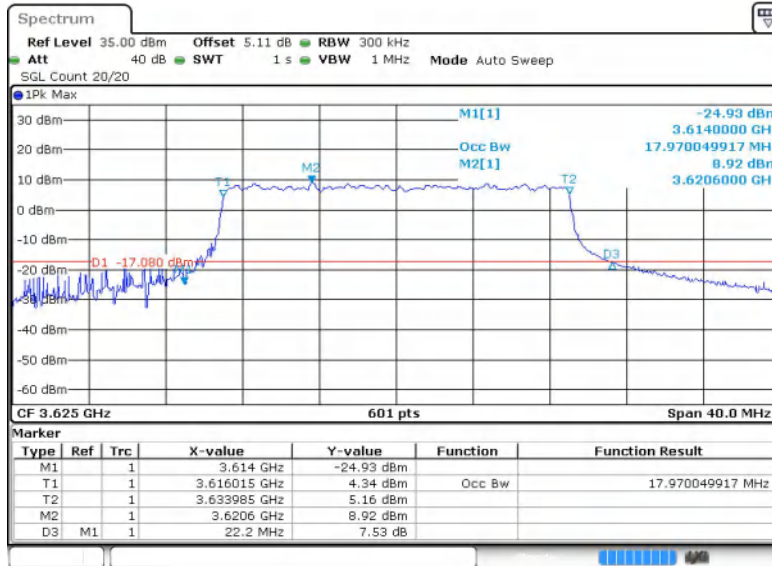
Date: 15.NOV.2023 16:12:23



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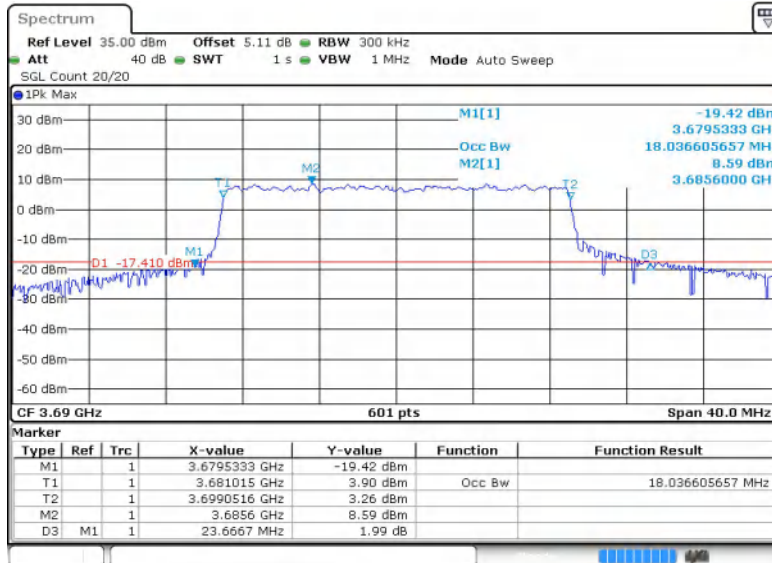
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### Band48-20MHz-256QAM-55990-100RB#0



Date: 15.NOV.2023 16:13:19

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



Date: 15.NOV.2023 16:14:08



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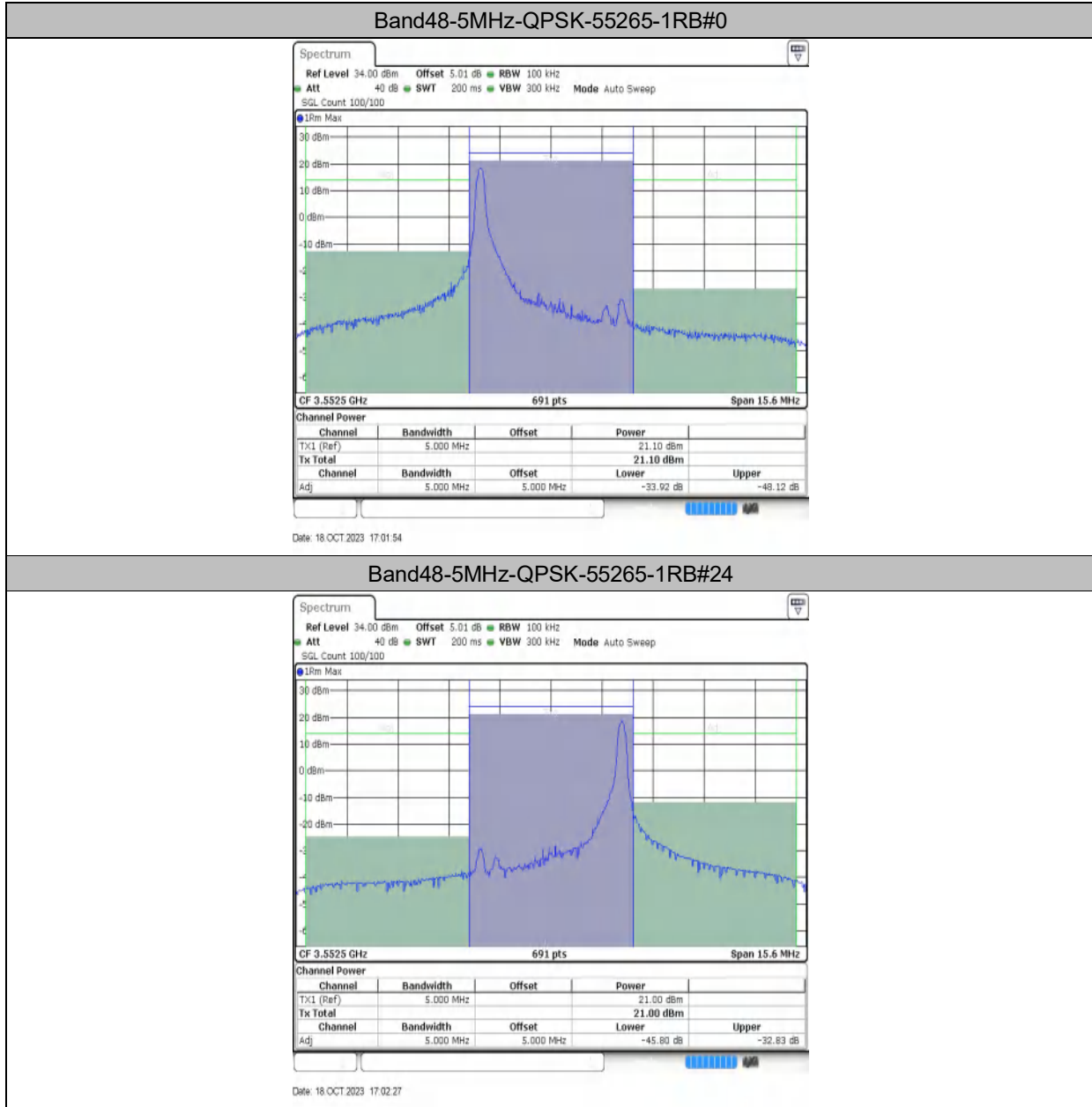
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**ACLR**

**Test Graphs**

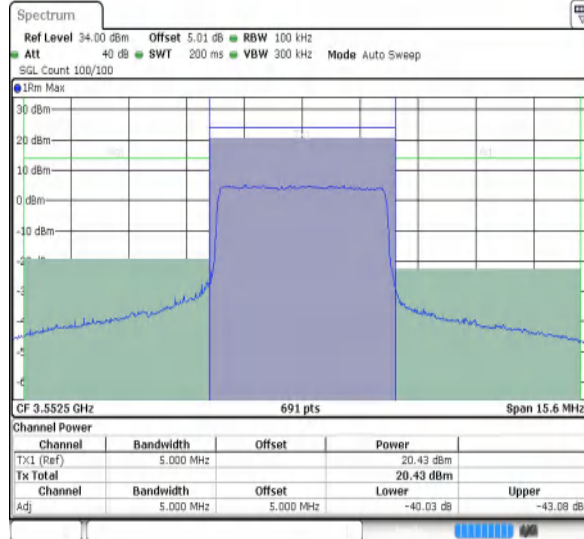


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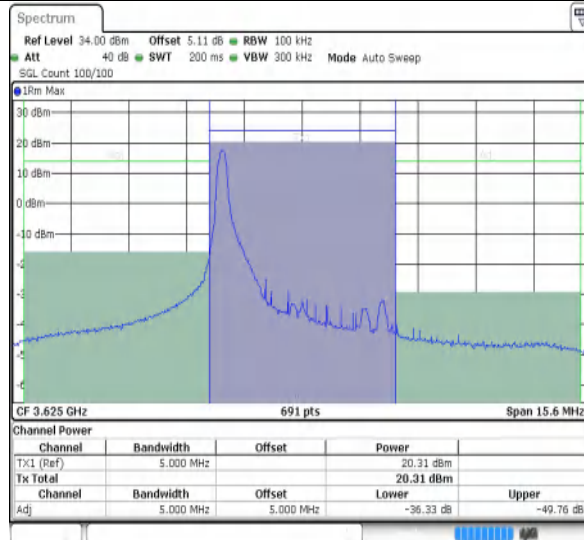
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**Band48-5MHz-QPSK-55265-25RB#0**



Date: 18.OCT.2023 17:02:59

**Band48-5MHz-QPSK-55990-1RB#0**



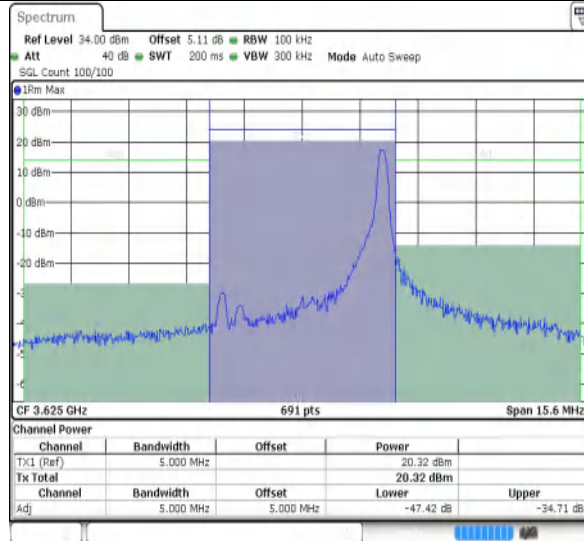
Date: 18.OCT.2023 17:08:01



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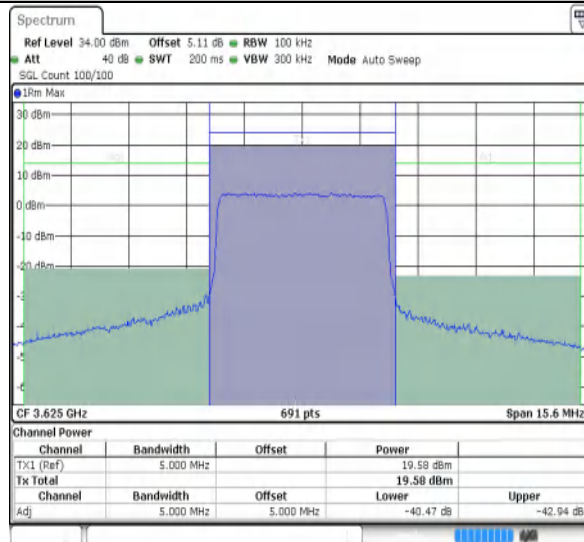
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### Band48-5MHz-QPSK-55990-1RB#24



Date: 18.OCT.2023 17:06:33

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



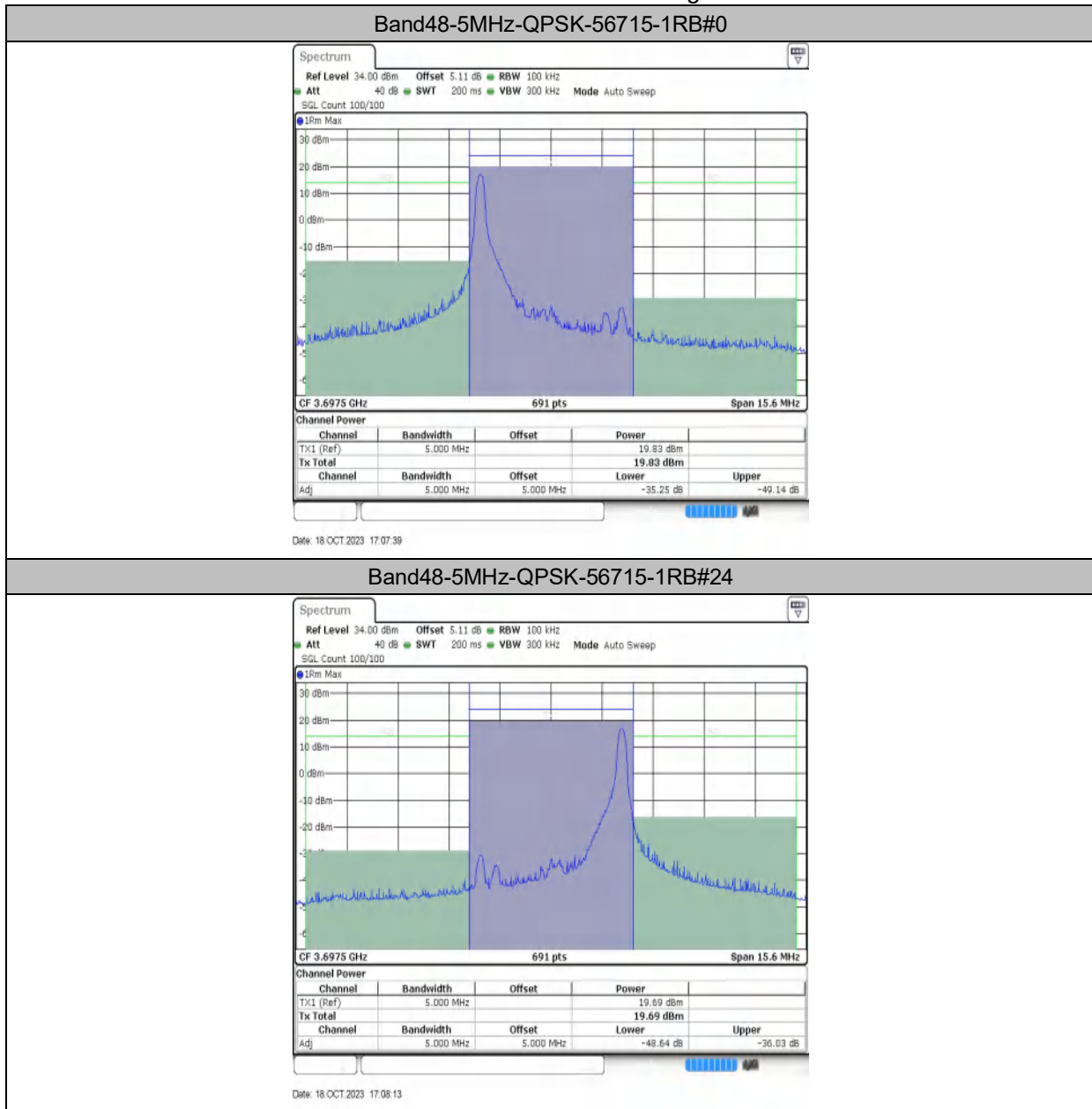
Date: 18.OCT.2023 17:07:05



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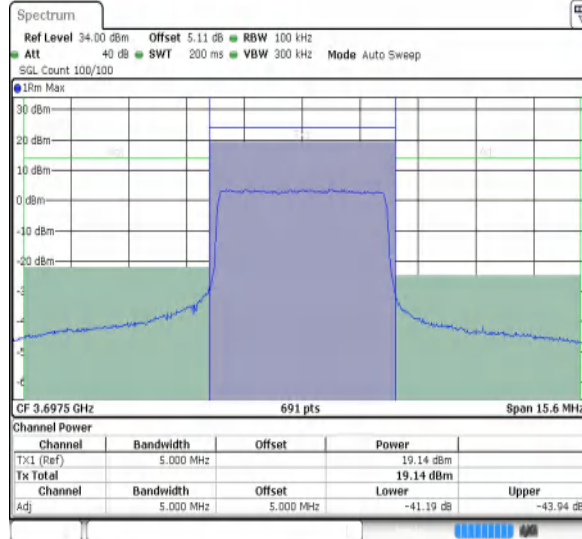
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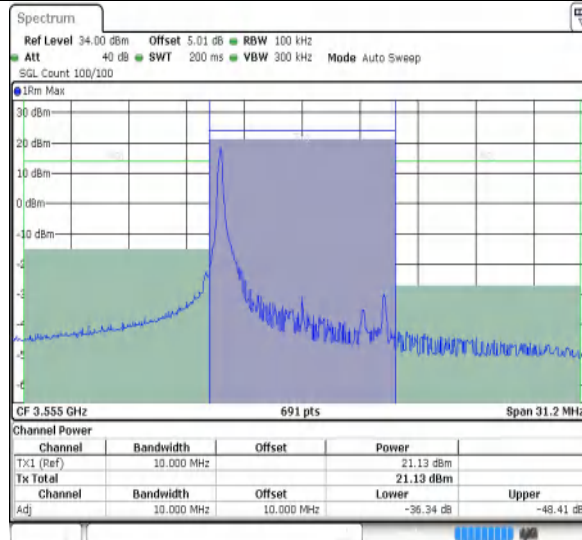


### Band48-5MHz-QPSK-56715-25RB#0



Date: 18.OCT.2023 17:08:46

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



Date: 18.OCT.2023 17:11:31

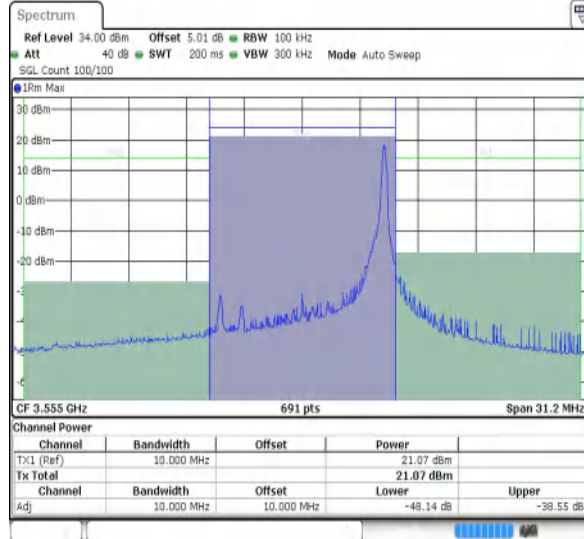


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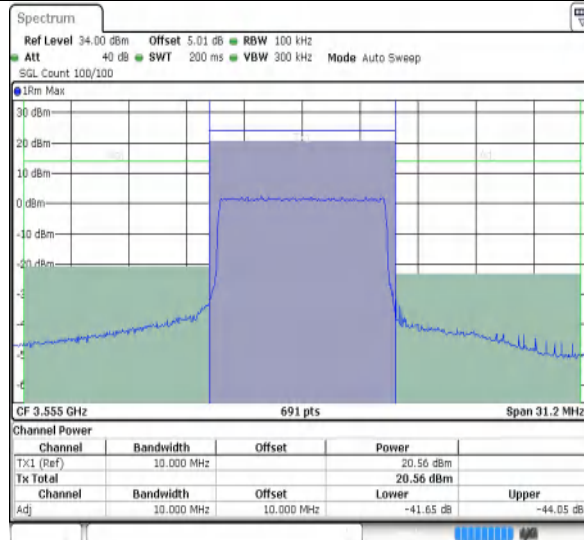
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### Band48-10MHz-QPSK-55290-1RB#49



Date: 18.OCT.2023 17:12:04

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



Date: 18.OCT.2023 17:12:36

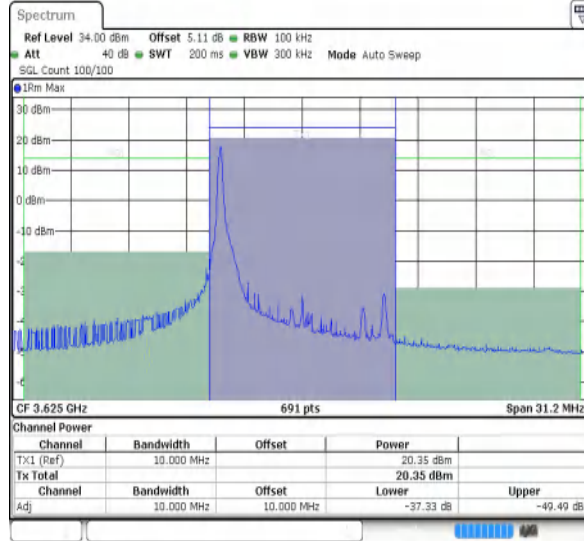


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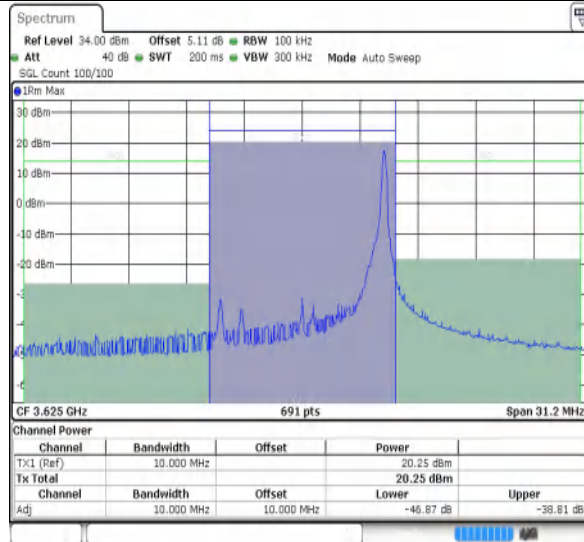
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**Band48-10MHz-QPSK-55990-1RB#0**



Date: 18.OCT.2023 17:13:10

**Band48-10MHz-QPSK-55990-1RB#49**



Date: 18.OCT.2023 17:13:43

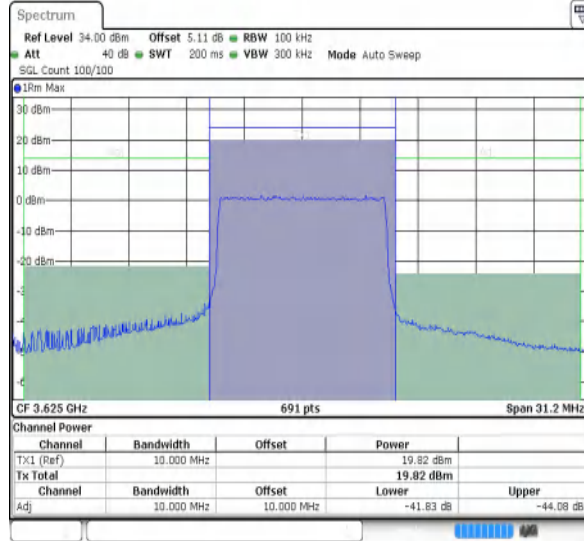


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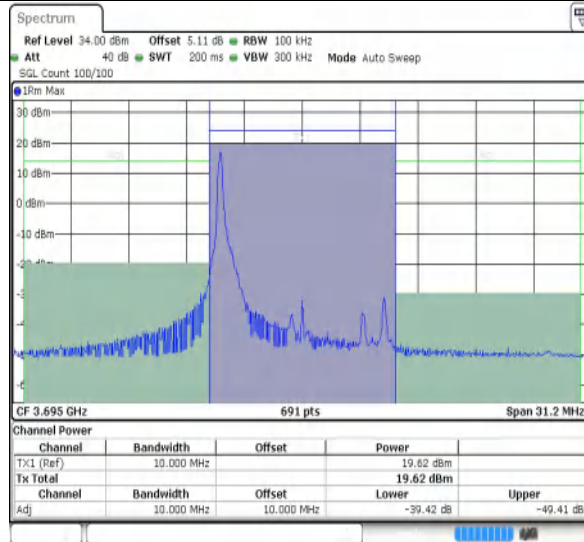
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**Band48-10MHz-QPSK-55990-50RB#0**



Date: 18.OCT.2023 17:14:16

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



Date: 18.OCT.2023 17:14:50



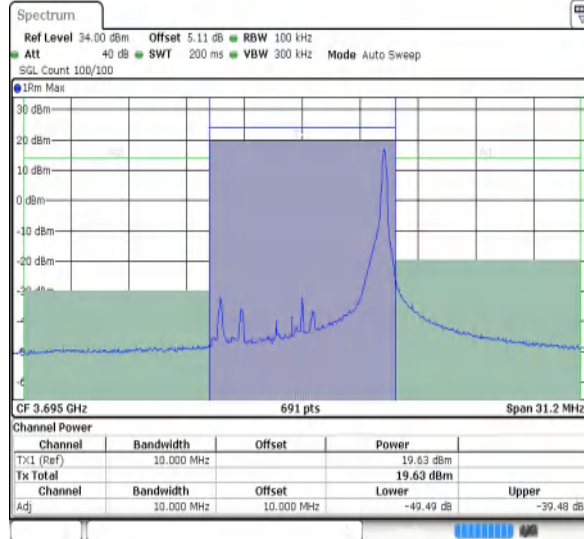
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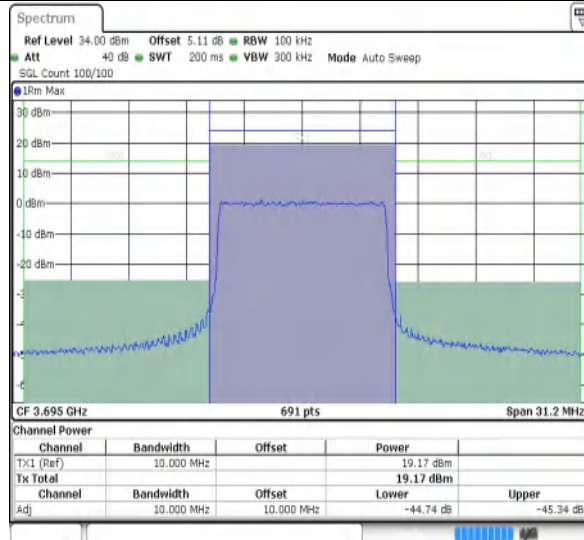


### Band48-10MHz-QPSK-56690-1RB#49



Date: 18.OCT.2023 17:15:23

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



Date: 18.OCT.2023 17:15:57

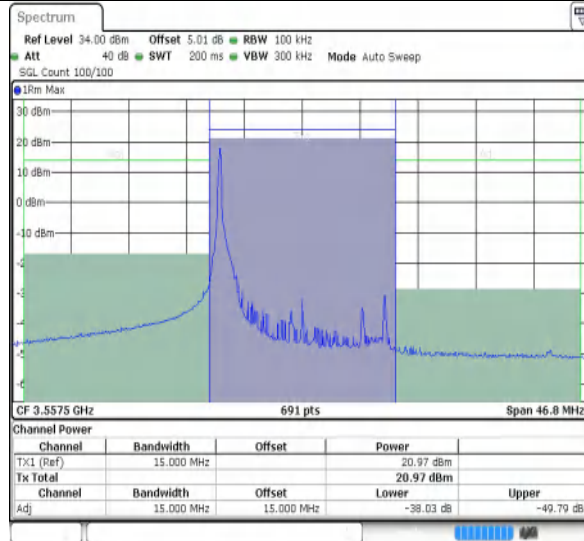


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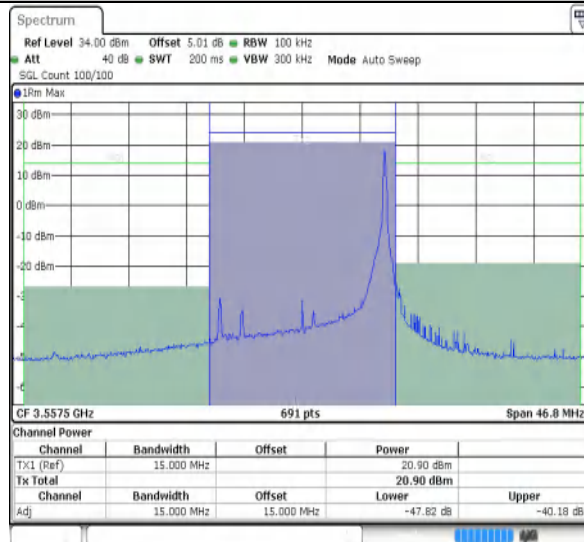
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**Band48-15MHz-QPSK-55315-1RB#0**



Date: 18.OCT.2023 17:18:21

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



Date: 18.OCT.2023 17:18:54

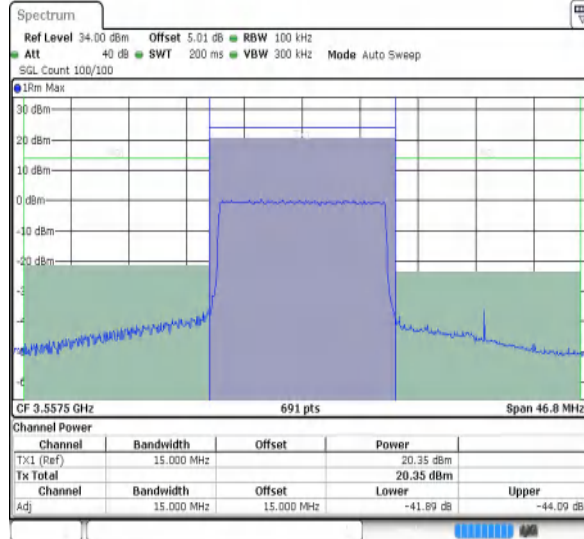


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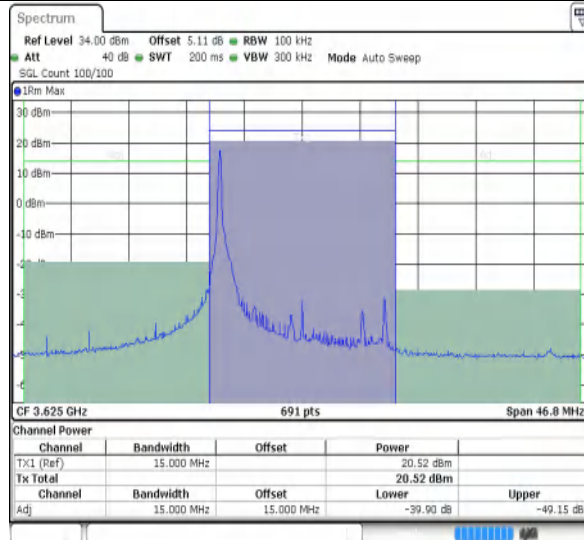
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### Band48-15MHz-QPSK-55315-75RB#0



Date: 18.OCT.2023 17:19:28

### Band48-15MHz-QPSK-55990-1RB#0



Date: 18.OCT.2023 17:22:42

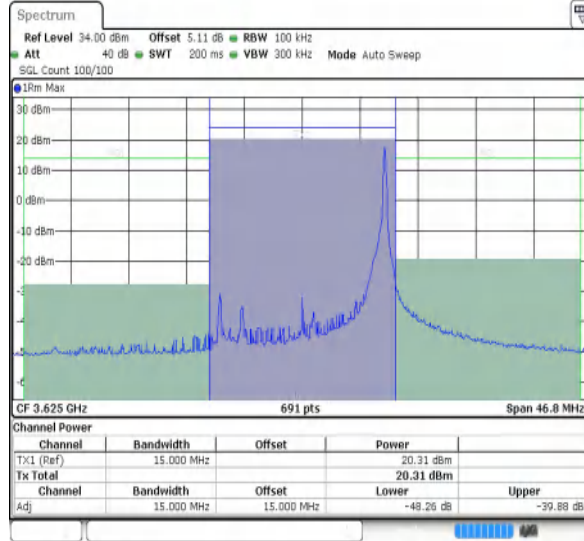


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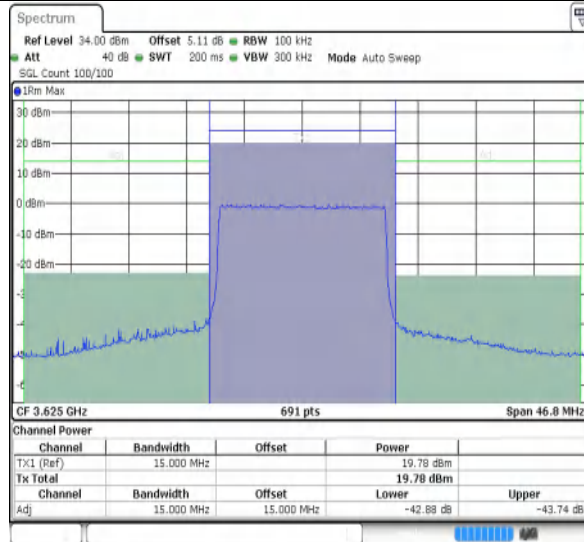
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**Band48-15MHz-QPSK-55990-1RB#74**



Date: 18.OCT.2023 17:23:15

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



Date: 18.OCT.2023 17:23:48



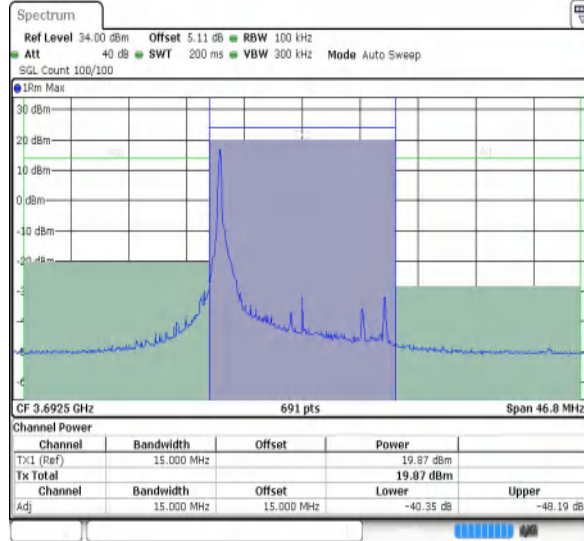
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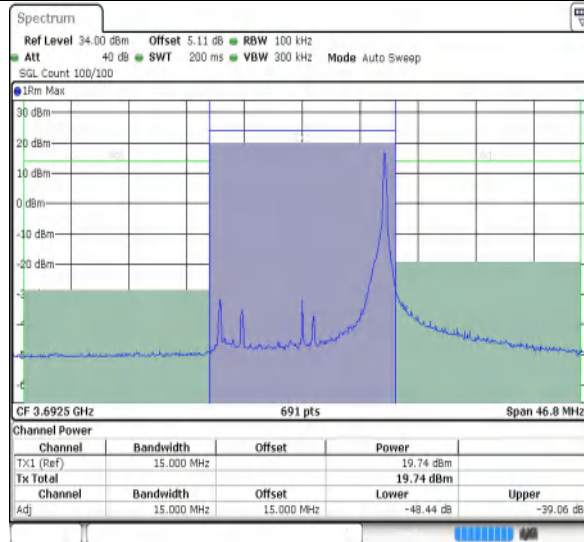


### Band48-15MHz-QPSK-56665-1RB#0



Date: 18.OCT.2023 17:24:23

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



Date: 18.OCT.2023 17:24:56

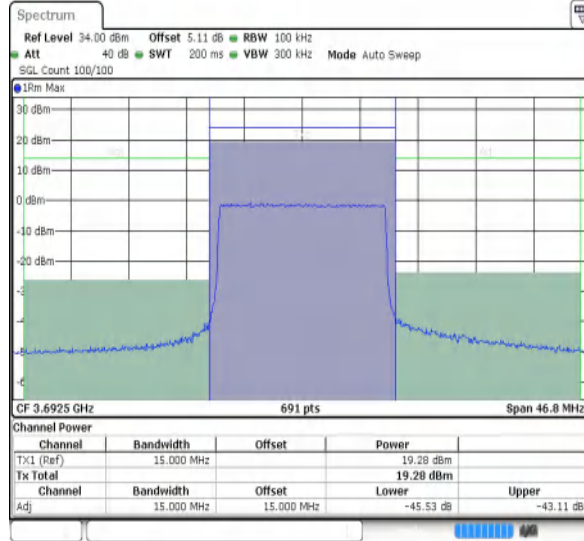


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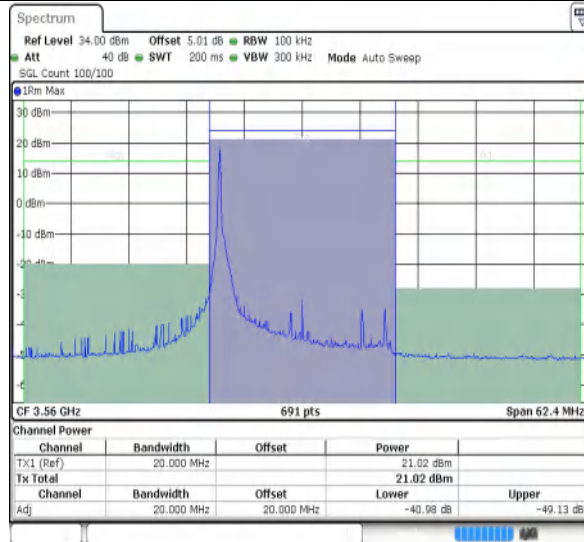
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**Band48-15MHz-QPSK-56665-75RB#0**



Date: 18.OCT.2023 17:25:31

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



Date: 18.OCT.2023 17:28:49

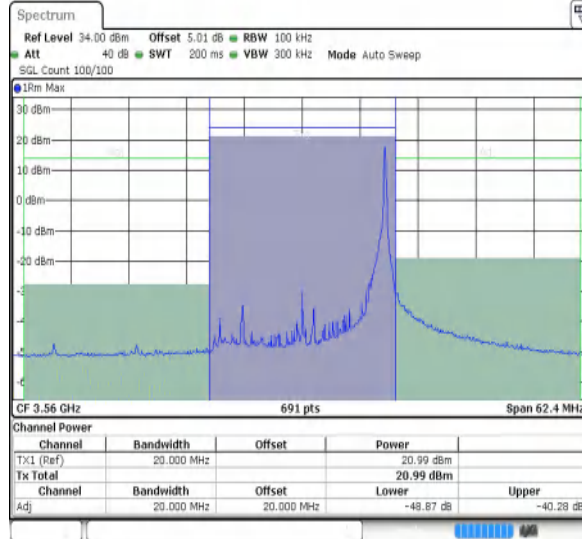


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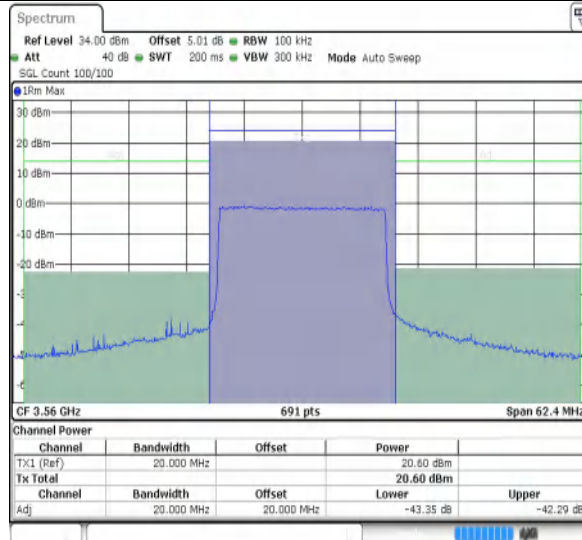
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### Band48-20MHz-QPSK-55340-1RB#99



Date: 18.OCT.2023 17:27:21

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



Date: 18.OCT.2023 17:27:54

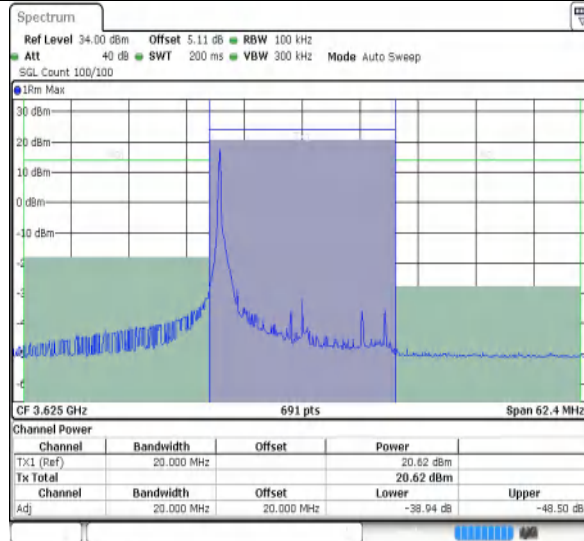


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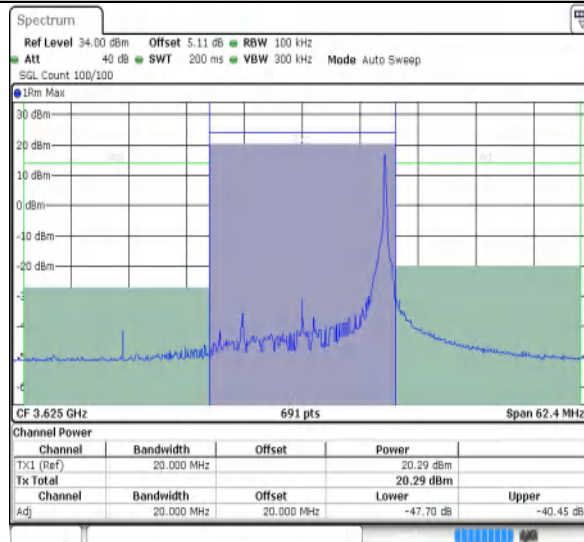
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### Band48-20MHz-QPSK-55990-1RB#0



Date: 18.OCT.2023 17:28:27

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



Date: 18.OCT.2023 17:28:59



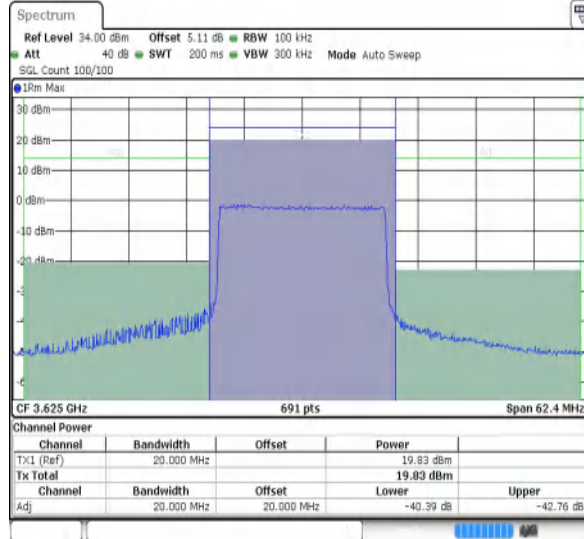
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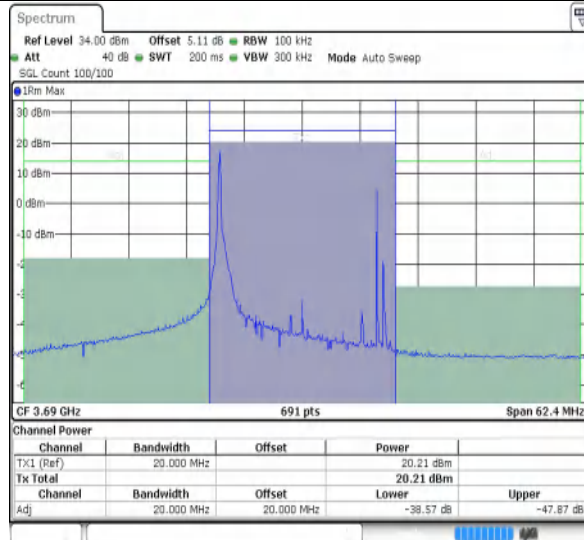


### Band48-20MHz-QPSK-55990-100RB#0



Date: 18.OCT.2023 17:29:31

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



Date: 18.OCT.2023 17:30:04

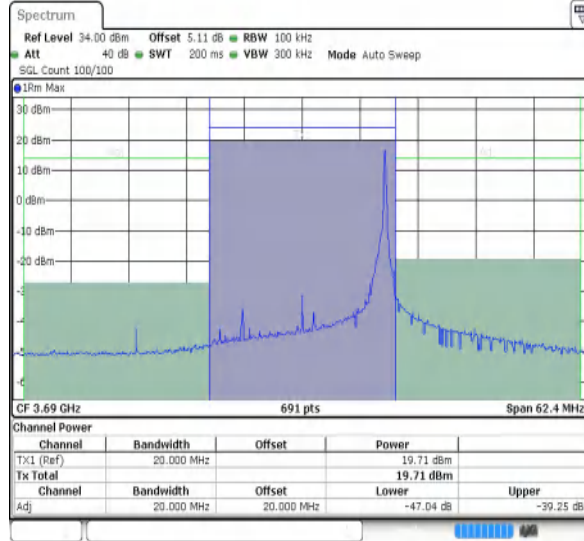


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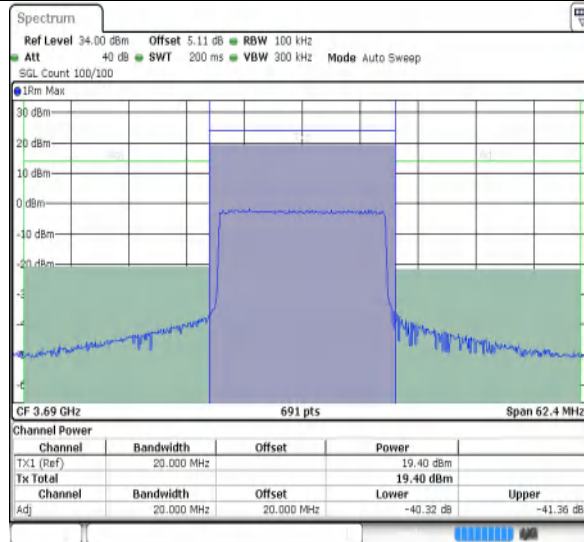
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### Band48-20MHz-QPSK-56640-1RB#99



Date: 18.OCT.2023 17:30:36

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



Date: 18.OCT.2023 17:31:09

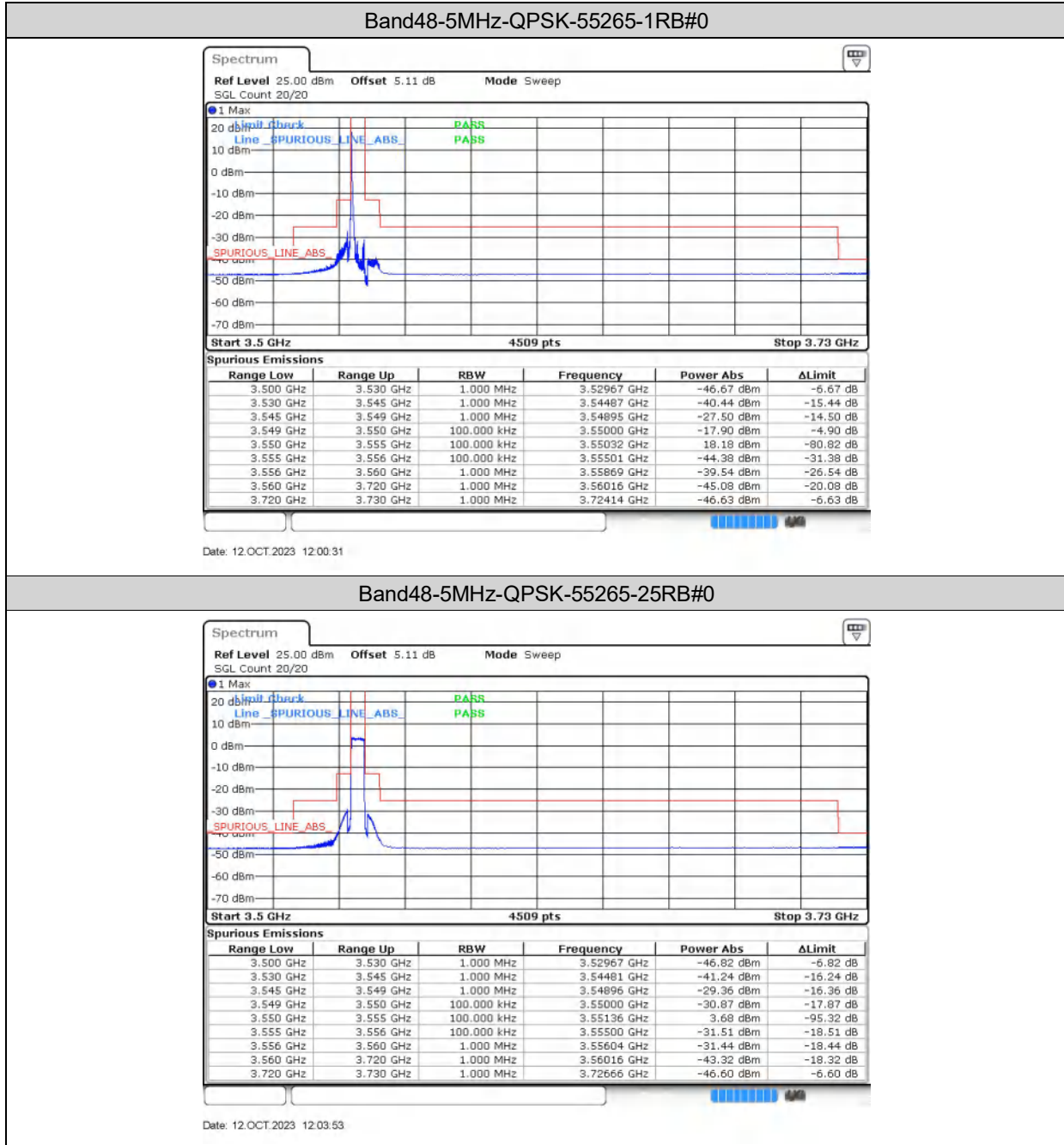


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**Band Edge**  
**Test Graphs**

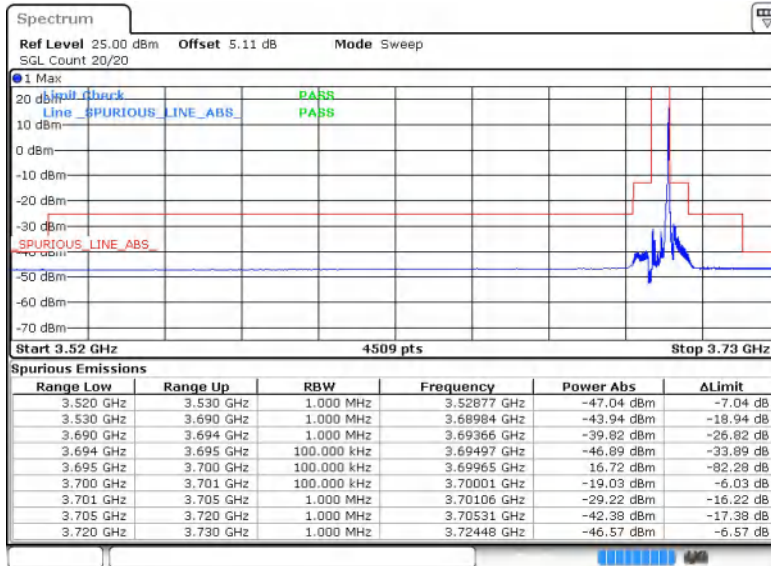


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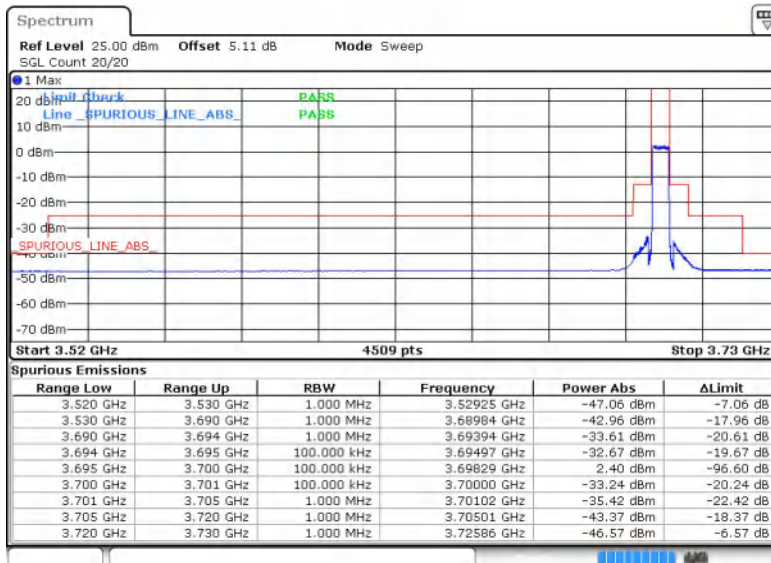
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### Band48-5MHz-QPSK-56715-1RB#24



Date: 12.OCT.2023 12:07:24

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



Date: 12.OCT.2023 12:10:47



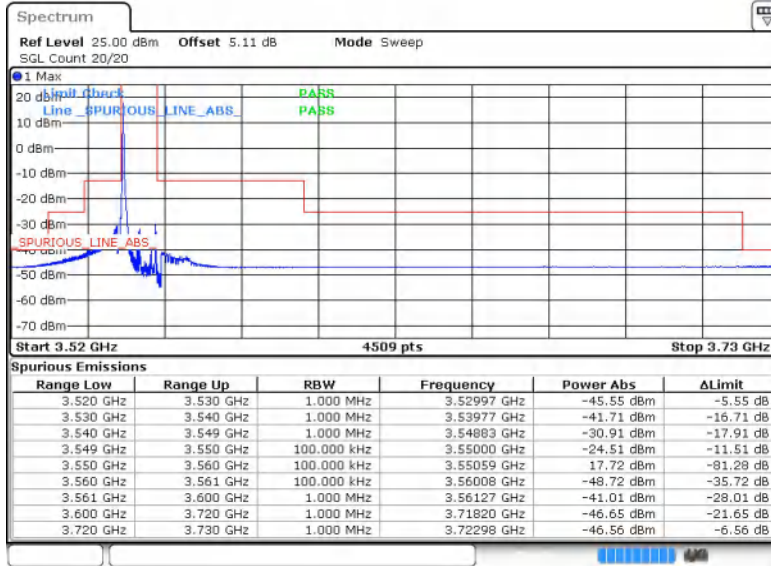
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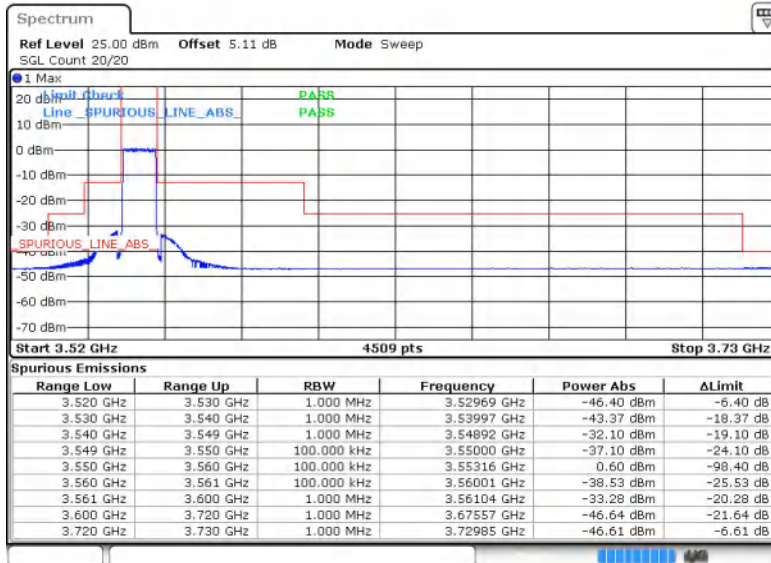


**Band48-10MHz-QPSK-55290-1RB#0**



Date: 12.OCT.2023 12:14:21

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



Date: 12.OCT.2023 12:17:42

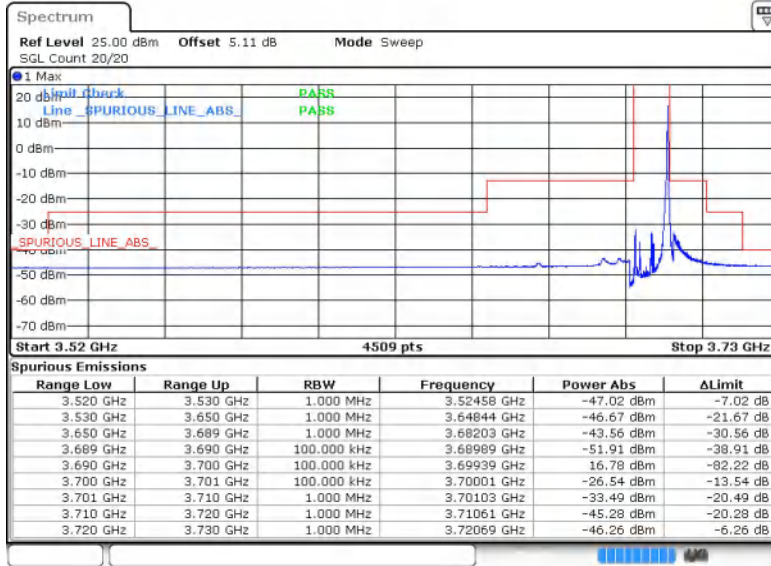


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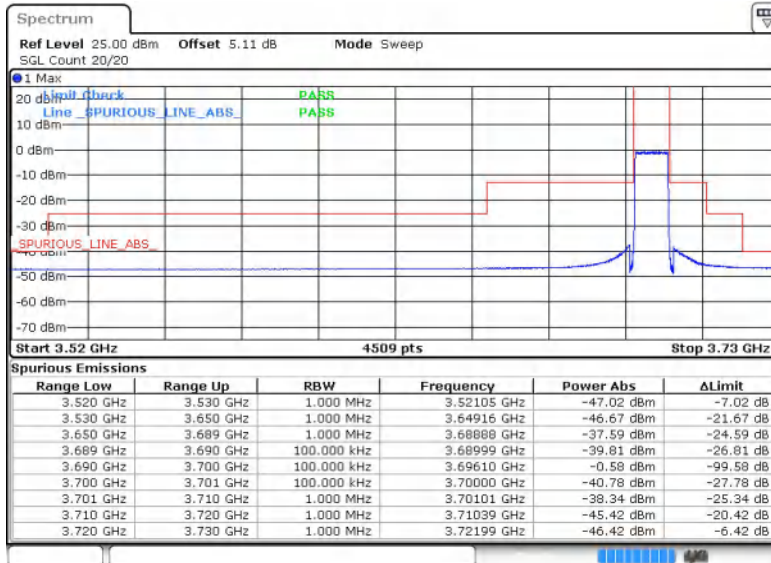
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**Band48-10MHz-QPSK-56690-1RB#49**



Date: 12.OCT.2023 12:21:13

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



Date: 12.OCT.2023 12:24:35

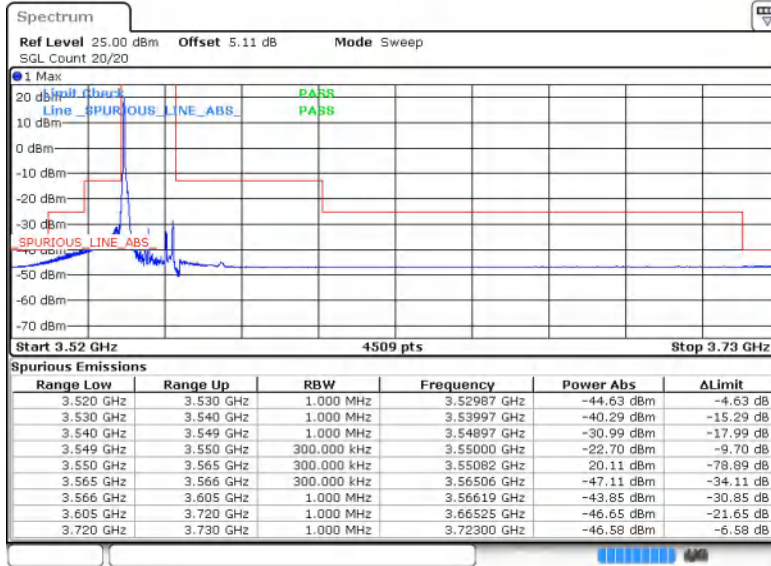


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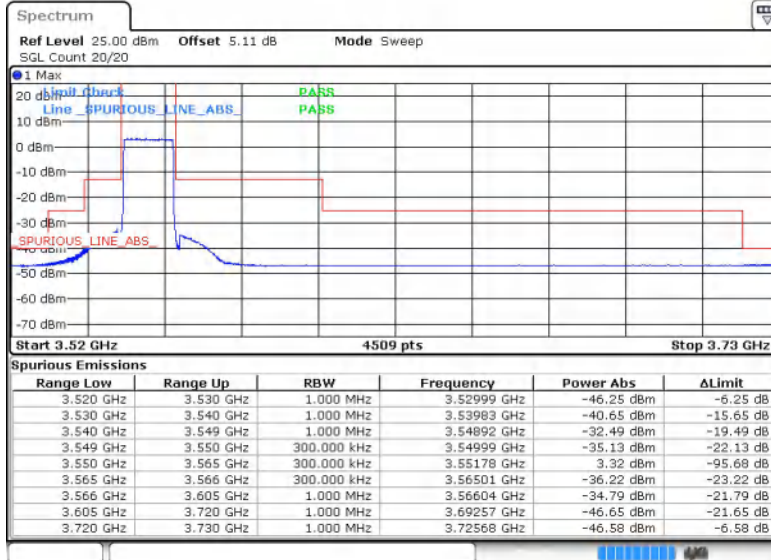
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**Band48-15MHz-QPSK-55315-1RB#0**



Date: 12.OCT.2023 12:28:21

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



Date: 12.OCT.2023 12:31:42



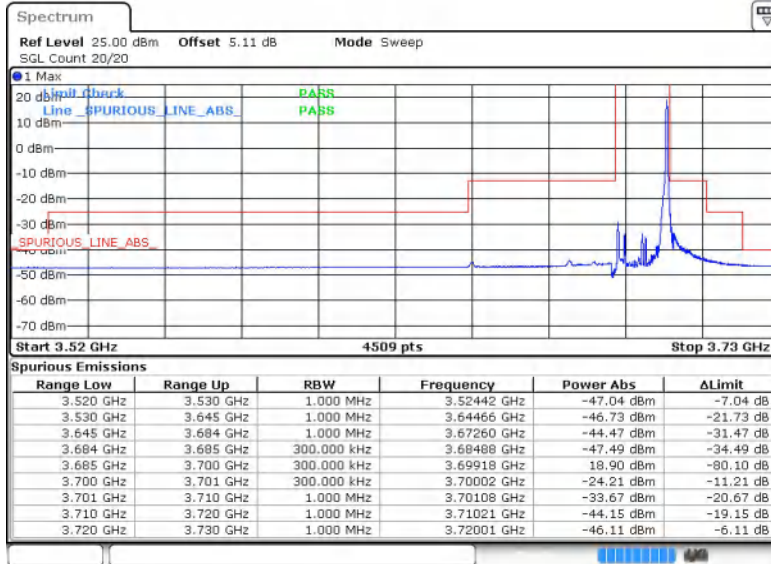
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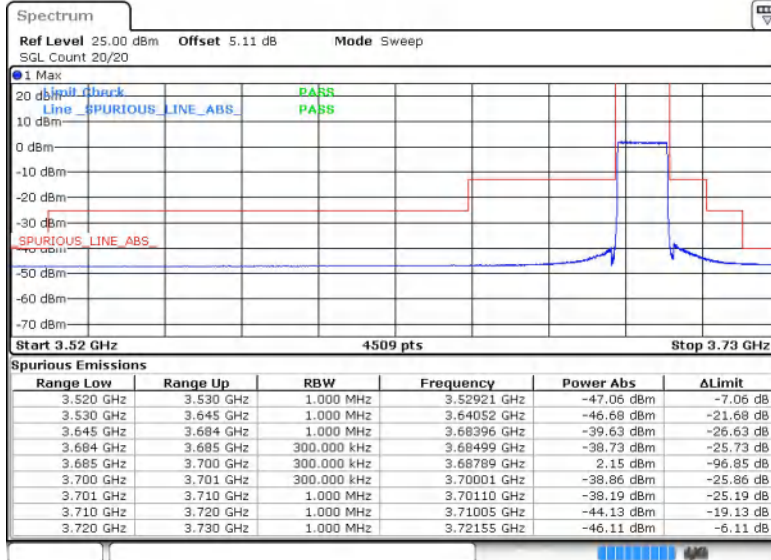


**Band48-15MHz-QPSK-56665-1RB#74**



Date: 12.OCT.2023 12:35:22

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



Date: 12.OCT.2023 12:38:44



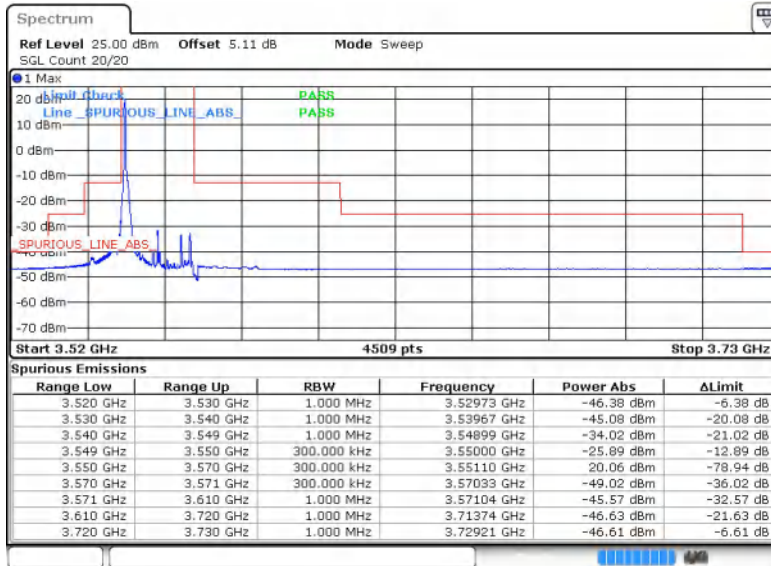
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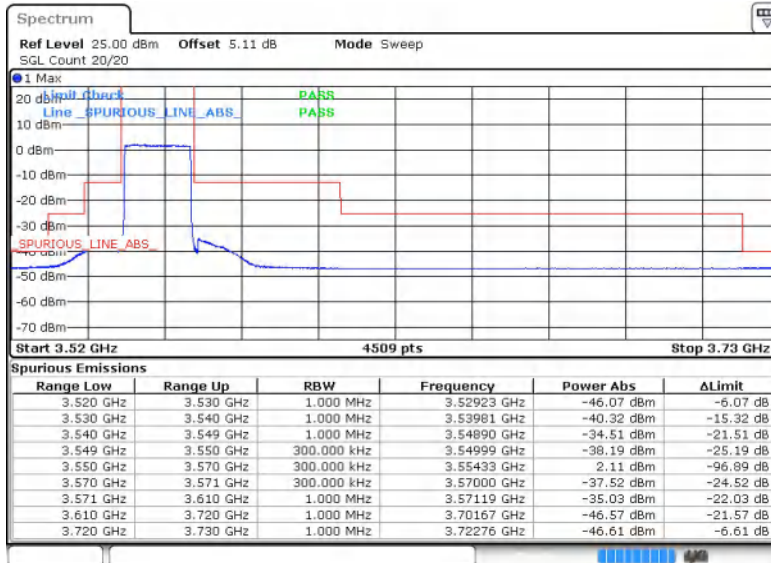


**Band48-20MHz-QPSK-55340-1RB#0**



Date: 12.OCT.2023 12:44:55

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



Date: 12.OCT.2023 12:48:17

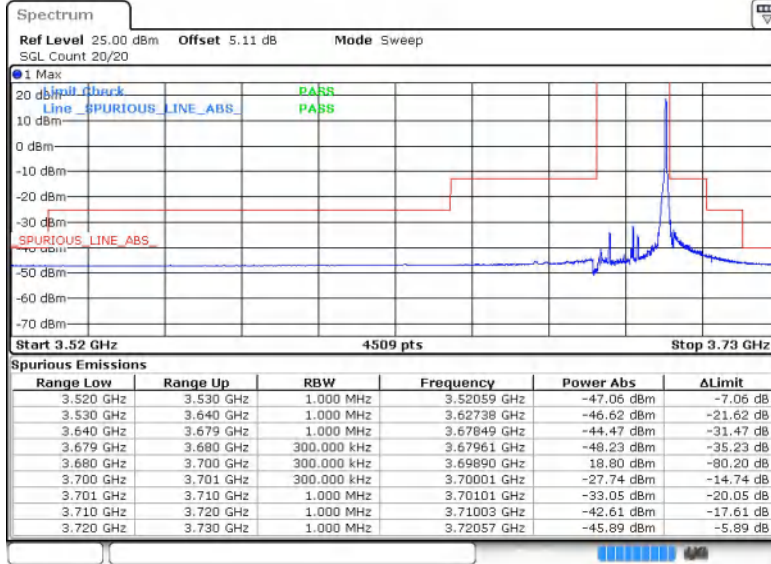


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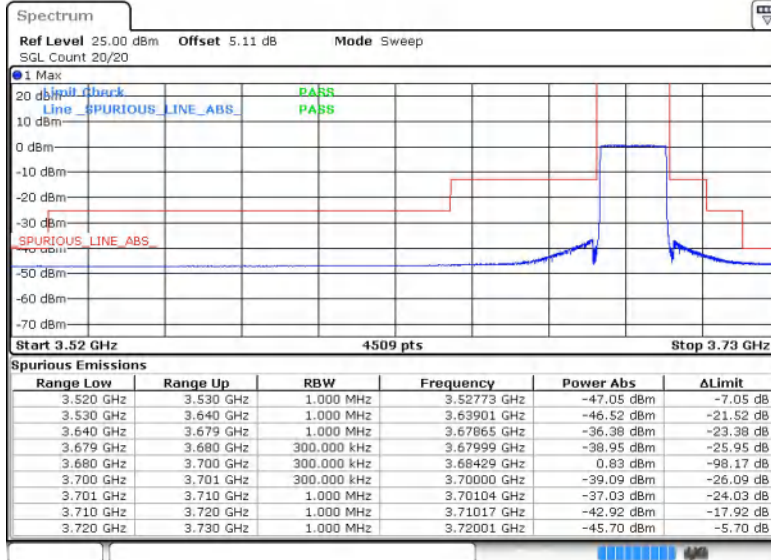
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### Band48-20MHz-QPSK-56640-1RB#99



Date: 12.OCT.2023 12:51:47

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



Date: 12.OCT.2023 12:55:09



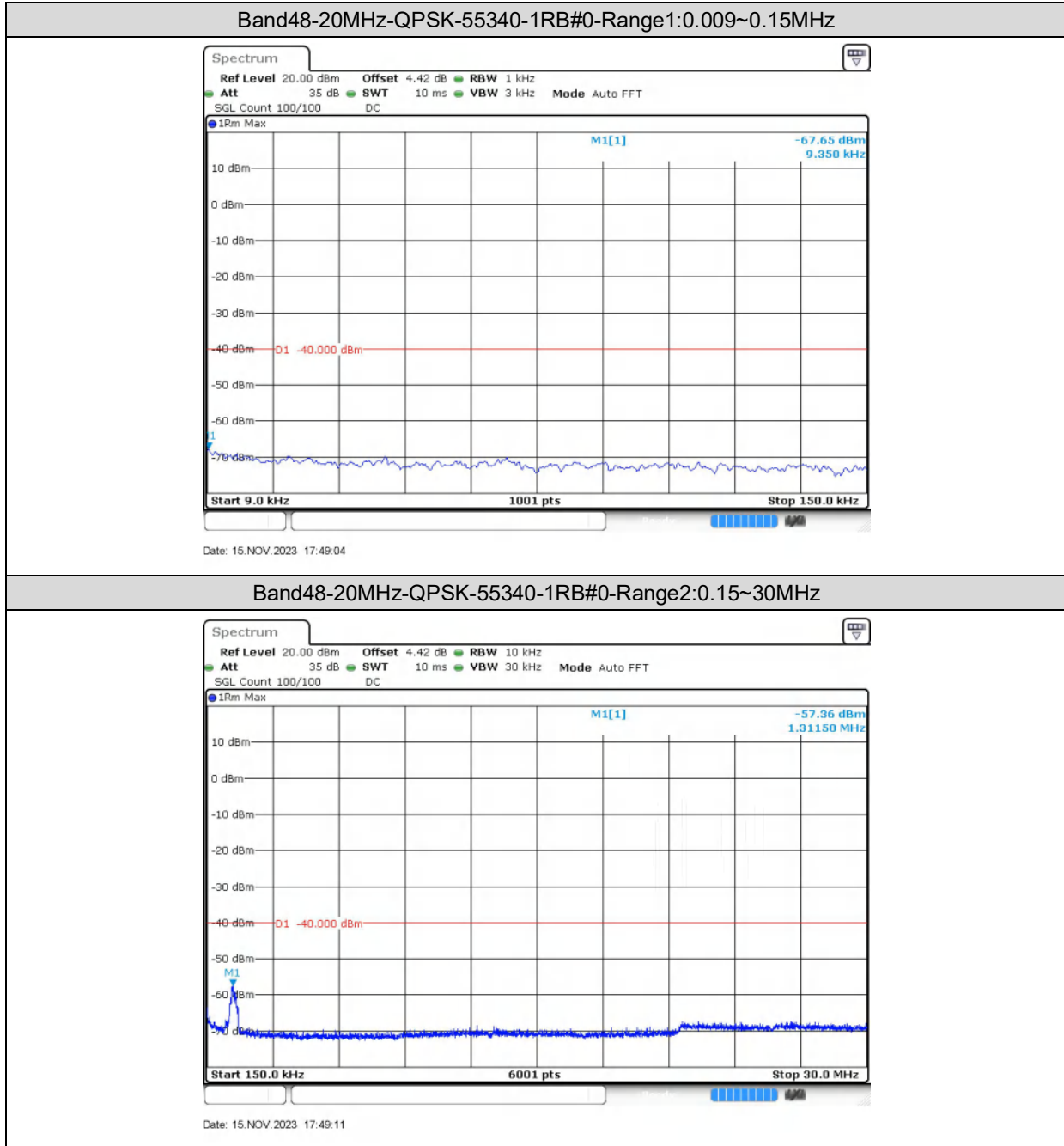
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## Conducted Spurious Emission

### Test Graphs

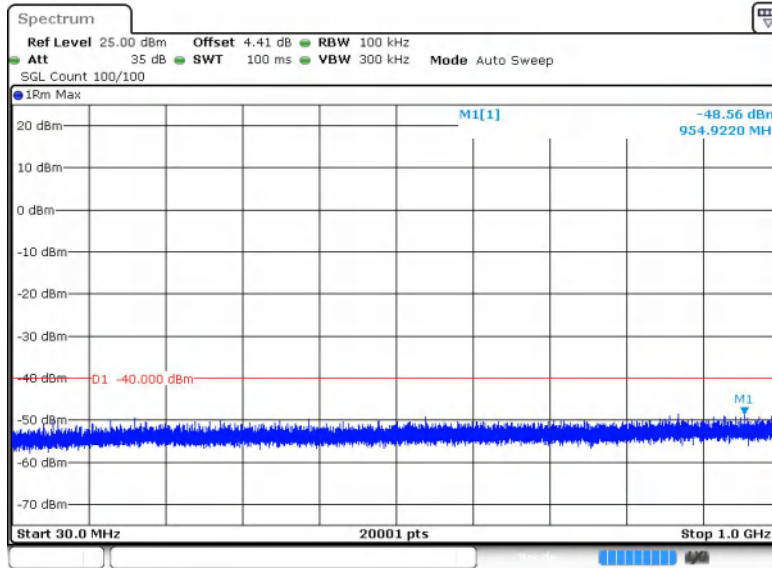


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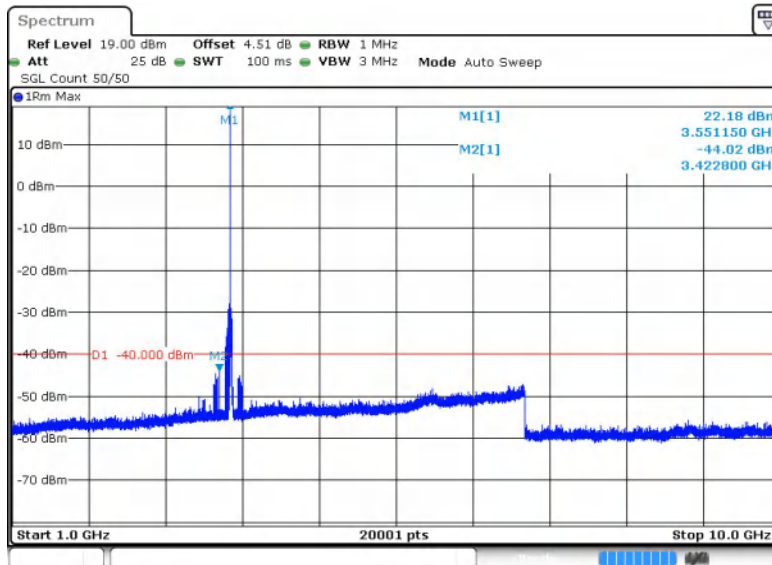
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### Band48-20MHz-QPSK-55340-1RB#0-Range3:30~1000MHz



Date: 15.NOV.2023 17:49:27

### Band48-20MHz-QPSK-55340-1RB#0-Range4:1000~10000MHz



Date: 15.NOV.2023 17:49:39



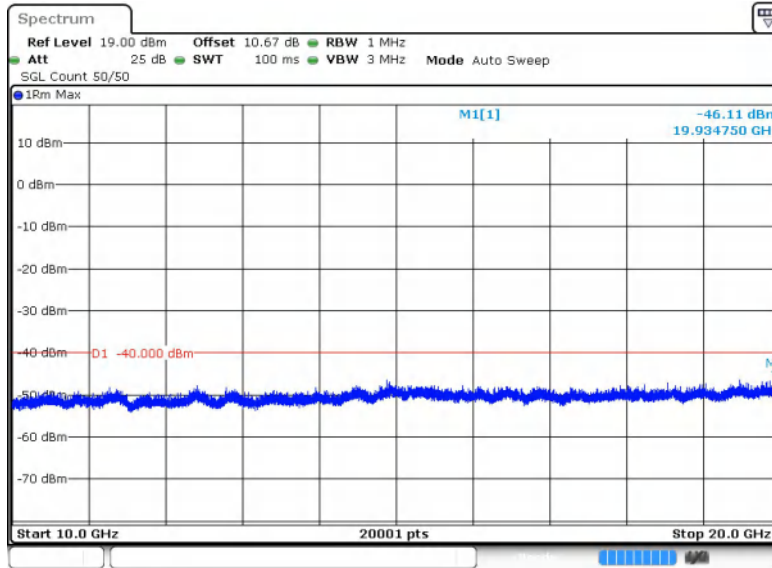
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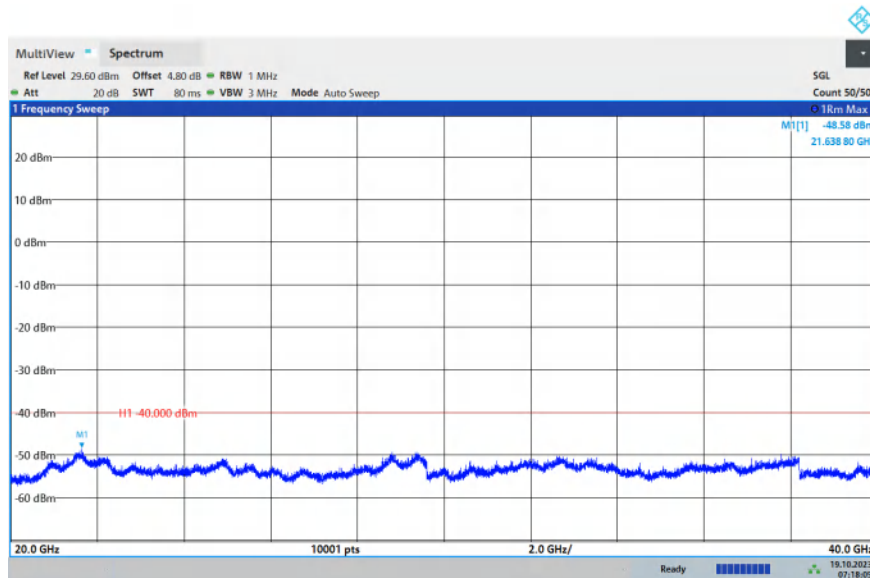


Band48-20MHz-QPSK-55340-1RB#0-Range5:10000~20000MHz



Date: 15.NOV.2023 17:49:53

Band48-20MHz-QPSK-55340-1RB#0-Range6: 20000~40000MHz



07:18:06 19.10.2023

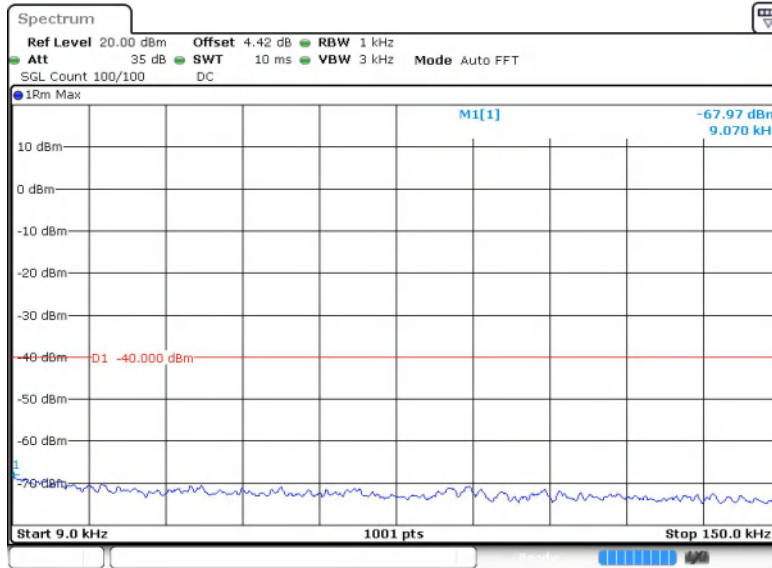


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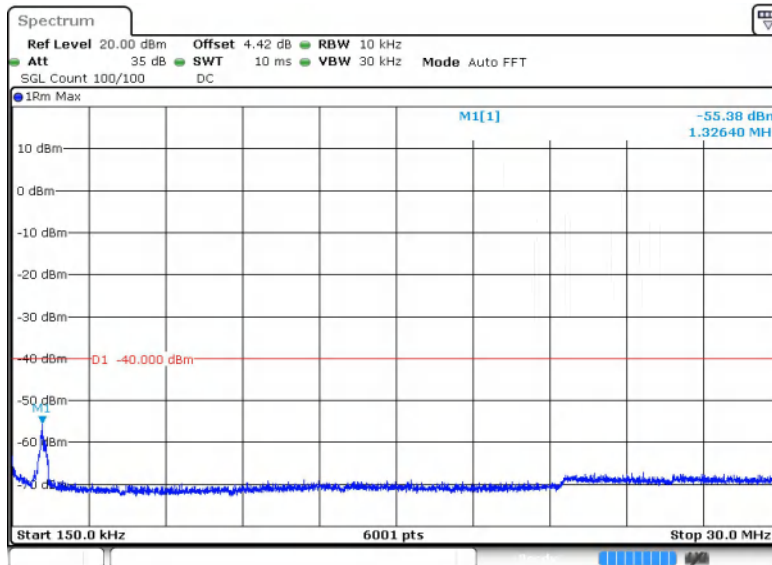
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### Band48-20MHz-QPSK-55990-1RB#0-Range1:0.009~0.15MHz



Date: 15.NOV.2023 17:50:25

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



Date: 15.NOV.2023 17:50:33

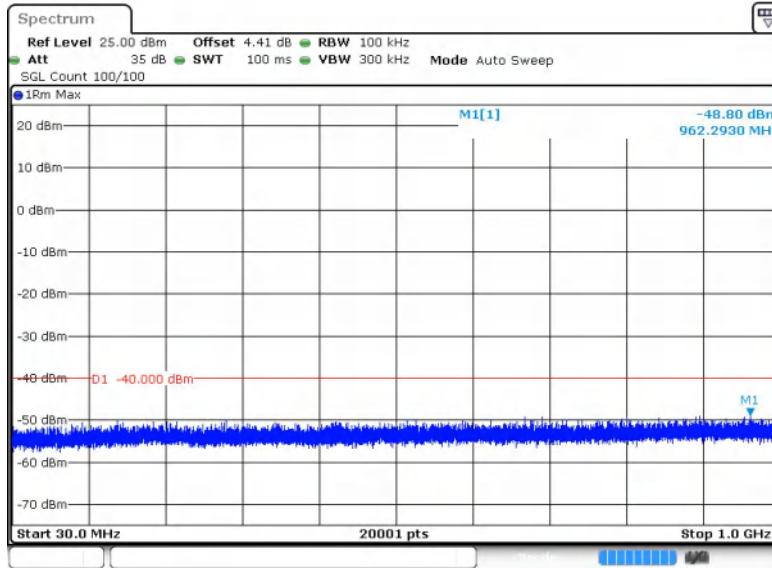


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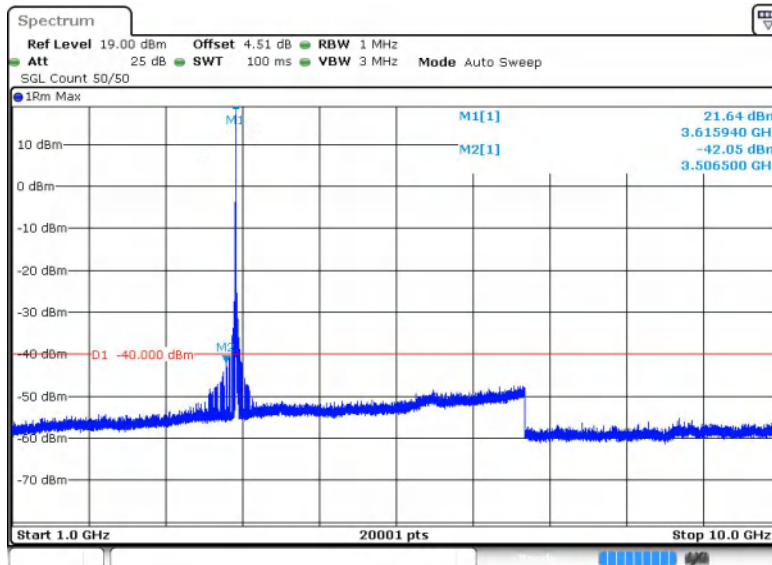
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### Band48-20MHz-QPSK-55990-1RB#0-Range3:30~1000MHz



Date: 15.NOV.2023 17:50:49

### Band48-20MHz-QPSK-55990-1RB#0-Range4:1000~10000MHz



Date: 15.NOV.2023 17:51:01

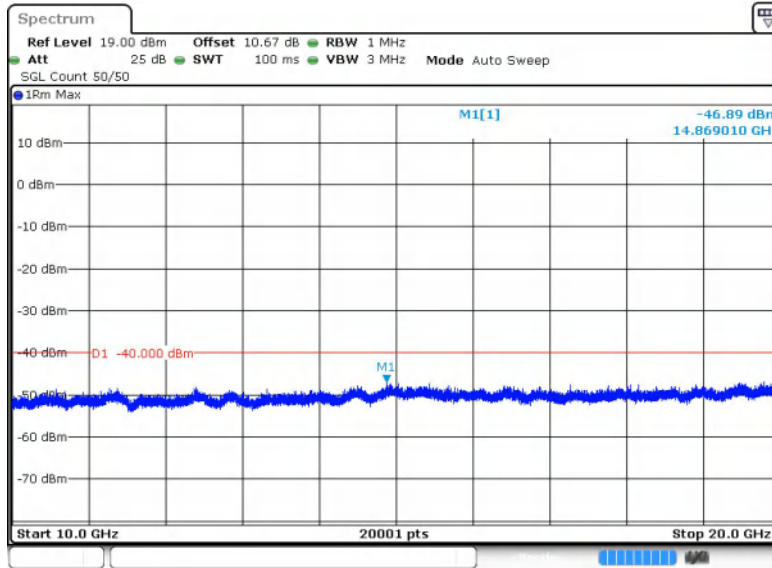


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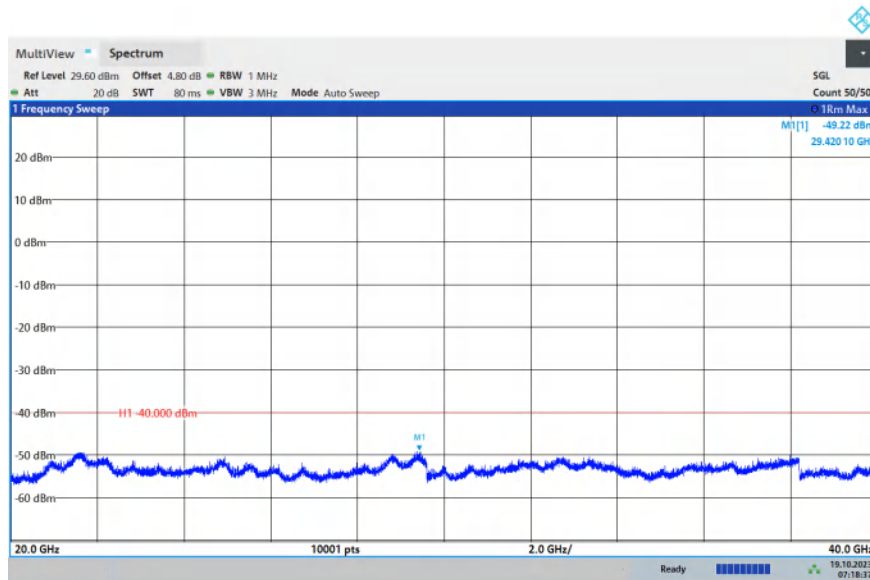
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### Band48-20MHz-QPSK-55990-1RB#0-Range5:10000~20000MHz



Date: 15.NOV.2023 17:51:14

### Band48-20MHz-QPSK-55990-1RB#0-Range6:20000~40000MHz



07:18:37 19.10.2023



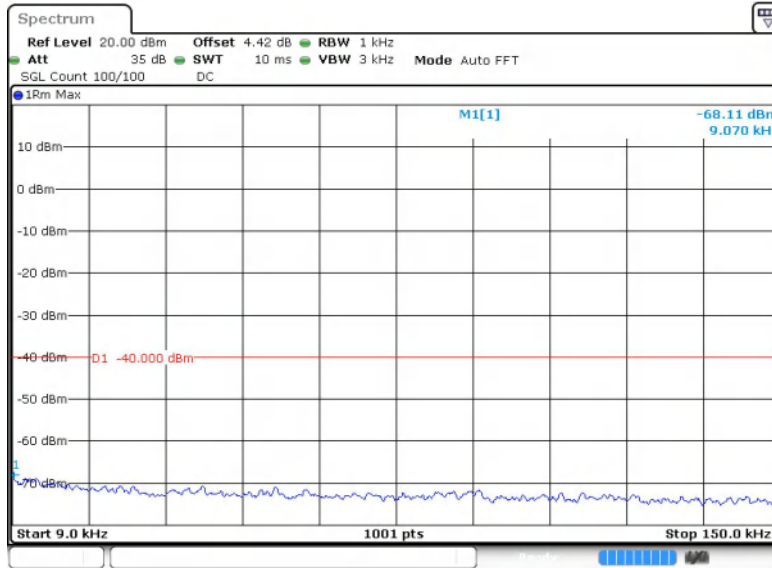
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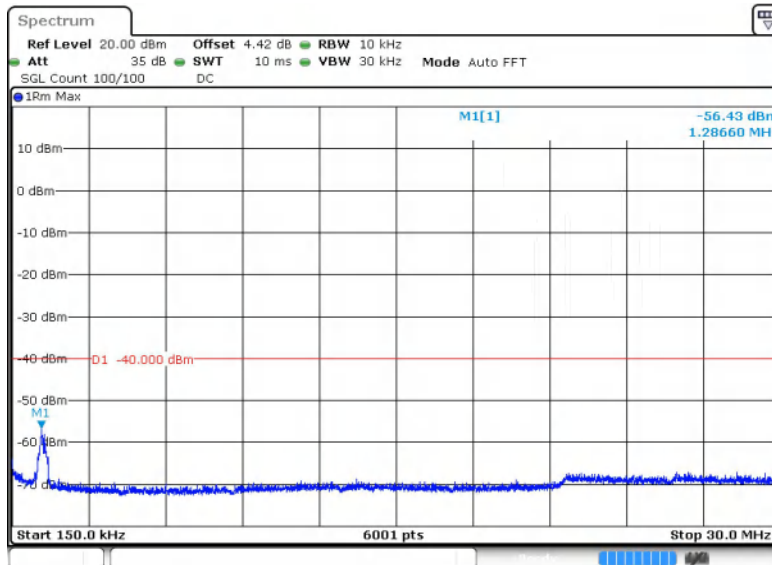


**Band48-20MHz-QPSK-56640-1RB#0-Range1:0.009~0.15MHz**



Date: 15.NOV.2023 17:51:28

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



Date: 15.NOV.2023 17:51:36

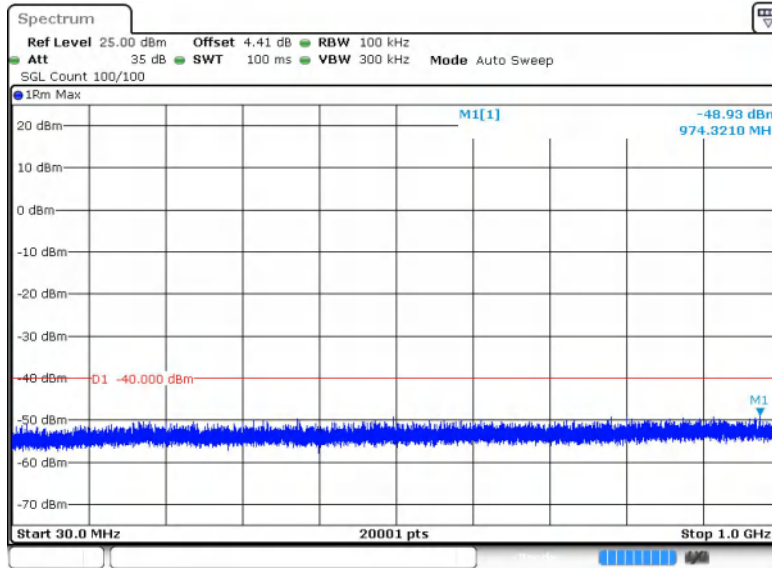


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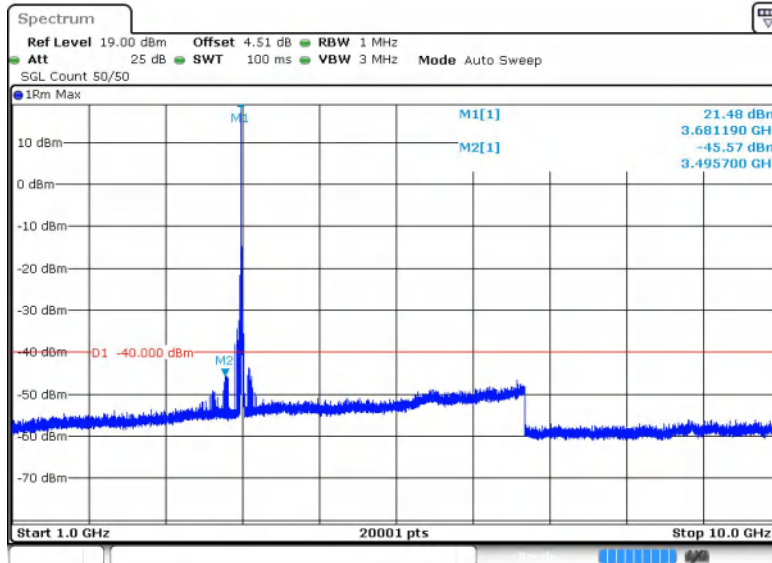
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### Band48-20MHz-QPSK-56640-1RB#0-Range3:30~1000MHz



Date: 15.NOV.2023 17:51:52

### Band48-20MHz-QPSK-56640-1RB#0-Range4:1000~10000MHz



Date: 15.NOV.2023 17:52:04

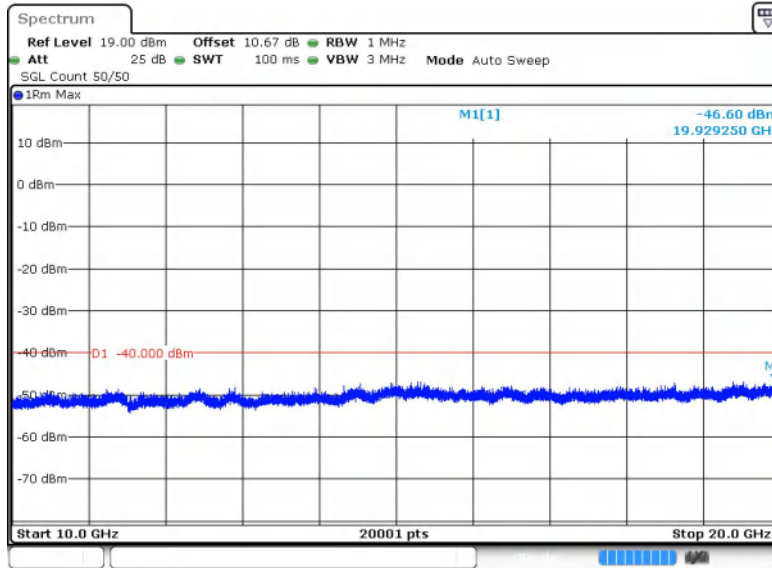


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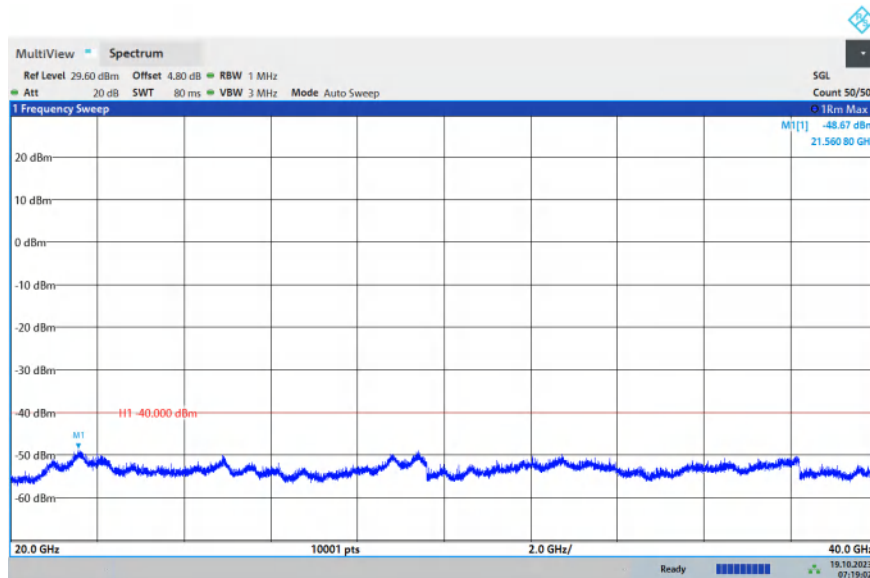
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### Band48-20MHz-QPSK-56640-1RB#0-Range5:10000~20000MHz



Date: 15.NOV.2023 17:52:18

### Band48-20MHz-QPSK-56640-1RB#0-Range6:20000~40000MHz



07:19:03 19.10.2023



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**Field Strength of Spurious Radiation**

**Test Band = B48\_ TM1**

**Test Channel = Low channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7117.5809	43.41	35.94	-45.16	-61.07	-40.00	21.07	Horizontal
2	7983.5742	43.14	36.21	-44.10	-60.01	-40.00	20.01	Horizontal
3	9449.8975	40.95	37.13	-41.77	-58.95	-40.00	18.95	Horizontal
4	10655.1578	38.22	39.19	-39.78	-57.63	-40.00	17.63	Horizontal
5	14209.9855	36.49	41.52	-38.02	-55.27	-40.00	15.27	Horizontal
6	15863.7682	37.21	38.66	-37.65	-57.04	-40.00	17.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7125.0563	44.15	35.95	-45.11	-60.27	-40.00	20.27	Vertical
2	8433.2467	42.28	36.16	-43.48	-60.30	-40.00	20.30	Vertical
3	9665.5333	40.09	37.63	-41.69	-59.23	-40.00	19.23	Vertical
4	10644.8072	38.00	39.17	-39.91	-58.00	-40.00	18.00	Vertical
5	14021.3761	36.81	41.50	-37.28	-54.23	-40.00	14.23	Vertical
6	15853.9927	36.97	38.70	-37.59	-57.18	-40.00	17.18	Vertical



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**Test Band = B48\_TM1**  
**Test Channel = Mid channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7240.062	43.44	36.09	-44.98	-60.71	-40.00	20.71	Horizontal
2	8440.147	42.50	36.16	-43.48	-60.08	-40.00	20.08	Horizontal
3	9544.2022	40.90	37.35	-41.89	-58.90	-40.00	18.90	Horizontal
4	10825.9413	37.34	39.39	-39.53	-58.06	-40.00	18.06	Horizontal
5	14474.4987	37.23	41.55	-38.01	-54.49	-40.00	14.49	Horizontal
6	16841.8921	36.47	41.06	-36.80	-54.53	-40.00	14.53	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7236.0368	44.29	36.08	-44.95	-59.84	-40.00	19.84	Vertical
2	8262.4631	42.65	36.17	-43.58	-60.02	-40.00	20.02	Vertical
3	9441.8471	40.82	37.12	-41.76	-59.08	-40.00	19.08	Vertical
4	10824.7912	37.64	39.39	-39.53	-57.76	-40.00	17.76	Vertical
5	14449.7725	36.65	41.54	-37.69	-54.76	-40.00	14.76	Vertical
6	16441.6721	36.92	39.70	-37.32	-55.96	-40.00	15.96	Vertical



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**Test Band = B48\_TM1**  
**Test Channel = High channel**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7386.6943	44.01	36.26	-44.64	-59.63	-40.00	19.63	Horizontal
2	8260.738	42.55	36.17	-43.58	-60.12	-40.00	20.12	Horizontal
3	9364.7932	40.74	36.94	-41.91	-59.49	-40.00	19.49	Horizontal
4	11019.726	38.37	39.60	-39.45	-56.74	-40.00	16.74	Horizontal
5	14722.3361	35.75	41.57	-37.29	-55.23	-40.00	15.23	Horizontal
6	16411.7706	36.50	39.60	-37.12	-56.28	-40.00	16.28	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	7361.3931	43.34	36.23	-44.89	-60.58	-40.00	20.58	Vertical
2	8130.2065	42.83	36.19	-43.72	-59.96	-40.00	19.96	Vertical
3	9529.8265	40.55	37.32	-41.89	-59.28	-40.00	19.28	Vertical
4	11012.2506	38.04	39.60	-39.50	-57.12	-40.00	17.12	Vertical
5	14740.162	36.02	41.57	-37.28	-54.95	-40.00	14.95	Vertical
6	16594.6297	36.50	40.22	-36.62	-55.16	-40.00	15.16	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	VL	NT	0.10	0.000028	PASS
Band48	20MHz	QPSK	55990	100RB#0	VN	NT	8.50	0.002345	PASS
Band48	20MHz	QPSK	55990	100RB#0	VH	NT	0.70	0.000193	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band48	20MHz	QPSK	55990	100RB#0	NV	-30	5.40	0.001490	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-20	2.00	0.000552	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	-10	1.50	0.000414	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	0	-0.30	-0.000083	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	10	-1.60	-0.000441	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	20	10.00	0.002759	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	30	8.00	0.002207	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	40	7.00	0.001931	PASS
Band48	20MHz	QPSK	55990	100RB#0	NV	50	11.90	0.003283	PASS

---End of Attachment---



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