



Appendix B.49

LTE CA_48C(3550-3700)



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Effective (Isotropic) Radiated Power Output Data

Test Result

and	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	LIMIT (dBm)	Verdict
48-48	10MHz-20MHz	QPSK-QPSK	55295-55439	1RB#0-0RB#0	21.16	16.87	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55295-55439	50RB#0-100RB#0	19.41	15.12	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55896-56040	1RB#0-0RB#0	20.9	16.61	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55896-56040	50RB#0-100RB#0	19.23	14.94	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	56496-56640	1RB#0-0RB#0	20.77	16.48	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	56496-56640	50RB#0-100RB#0	19.28	14.99	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55295-55439	1RB#0-0RB#0	20.2	15.91	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55295-55439	50RB#0-100RB#0	18.53	14.24	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55896-56040	1RB#0-0RB#0	19.99	15.7	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55896-56040	50RB#0-100RB#0	18.26	13.97	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	56496-56640	1RB#0-0RB#0	19.84	15.55	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	56496-56640	50RB#0-100RB#0	18.34	14.05	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55295-55439	1RB#0-0RB#0	18.98	14.69	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55295-55439	50RB#0-100RB#0	18.55	14.26	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55896-56040	1RB#0-0RB#0	18.77	14.48	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55896-56040	50RB#0-100RB#0	18.3	14.01	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	56496-56640	1RB#0-0RB#0	18.65	14.36	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	56496-56640	50RB#0-100RB#0	18.34	14.05	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55295-55439	1RB#0-0RB#0	16.14	11.85	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55295-55439	50RB#0-100RB#0	16.53	12.24	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55896-56040	1RB#0-0RB#0	15.88	11.59	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55896-56040	50RB#0-100RB#0	16.3	12.01	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	56496-56640	1RB#0-0RB#0	15.81	11.52	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	56496-56640	50RB#0-100RB#0	16.36	12.07	23	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55318-55489	1RB#0-0RB#0	21.31	17.02	23	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55318-55489	75RB#0-100RB#0	19.51	15.22	23	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55893-56064	1RB#0-0RB#0	21.15	16.86	23	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55893-56064	75RB#0-100RB#0	19.26	14.97	23	PASS
48-48	15MHz-20MHz	QPSK-QPSK	56469-56640	1RB#0-0RB#0	21	16.71	23	PASS



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48-48	15MHz-20MHz	QPSK-QPSK	56469-56640	75RB#0-100RB#0	19.24	14.95	23	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55318-55489	1RB#0-0RB#0	20.45	16.16	23	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55318-55489	75RB#0-100RB#0	18.5	14.21	23	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55893-56064	1RB#0-0RB#0	20.25	15.96	23	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55893-56064	75RB#0-100RB#0	18.29	14	23	PASS
48-48	15MHz-20MHz	16QAM-16QAM	56469-56640	1RB#0-0RB#0	20.04	15.75	23	PASS
48-48	15MHz-20MHz	16QAM-16QAM	56469-56640	75RB#0-100RB#0	18.27	13.98	23	PASS
48-48	15MHz-20MHz	64QAM-64QAM	55318-55489	1RB#0-0RB#0	19.15	14.86	23	PASS
48-48	15MHz-20MHz	64QAM-64QAM	55318-55489	75RB#0-100RB#0	18.47	14.18	23	PASS
48-48	15MHz-20MHz	64QAM-64QAM	55893-56064	1RB#0-0RB#0	18.92	14.63	23	PASS
48-48	15MHz-20MHz	64QAM-64QAM	55893-56064	75RB#0-100RB#0	18.25	13.96	23	PASS
48-48	15MHz-20MHz	64QAM-64QAM	56469-56640	1RB#0-0RB#0	18.8	14.51	23	PASS
48-48	15MHz-20MHz	64QAM-64QAM	56469-56640	75RB#0-100RB#0	18.24	13.95	23	PASS
48-48	15MHz-20MHz	256QAM-256QAM	55318-55489	1RB#0-0RB#0	16.33	12.04	23	PASS
48-48	15MHz-20MHz	256QAM-256QAM	55318-55489	75RB#0-100RB#0	16.5	12.21	23	PASS
48-48	15MHz-20MHz	256QAM-256QAM	55893-56064	1RB#0-0RB#0	16.07	11.78	23	PASS
48-48	15MHz-20MHz	256QAM-256QAM	55893-56064	75RB#0-100RB#0	16.29	12	23	PASS
48-48	15MHz-20MHz	256QAM-256QAM	56469-56640	1RB#0-0RB#0	16	11.71	23	PASS
48-48	15MHz-20MHz	256QAM-256QAM	56469-56640	75RB#0-100RB#0	16.32	12.03	23	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55340-55484	100RB#0-50RB#0	19.48	15.19	23	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55340-55484	1RB#0-0RB#0	21.2	16.91	23	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55941-56085	100RB#0-50RB#0	19.22	14.93	23	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55941-56085	1RB#0-0RB#0	20.89	16.6	23	PASS
48-48	20MHz-10MHz	QPSK-QPSK	56541-56685	100RB#0-50RB#0	19.15	14.86	23	PASS
48-48	20MHz-10MHz	QPSK-QPSK	56541-56685	1RB#0-0RB#0	20.78	16.49	23	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55340-55484	100RB#0-50RB#0	18.51	14.22	23	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55340-55484	1RB#0-0RB#0	20.26	15.97	23	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55941-56085	100RB#0-50RB#0	18.31	14.02	23	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55941-56085	1RB#0-0RB#0	19.97	15.68	23	PASS
48-48	20MHz-10MHz	16QAM-16QAM	56541-56685	100RB#0-50RB#0	18.2	13.91	23	PASS
48-48	20MHz-10MHz	16QAM-16QAM	56541-56685	1RB#0-0RB#0	19.86	15.57	23	PASS
48-48	20MHz-10MHz	64QAM-64QAM	55340-55484	100RB#0-50RB#0	18.52	14.23	23	PASS
48-48	20MHz-10MHz	64QAM-64QAM	55340-55484	1RB#0-0RB#0	19.01	14.72	23	PASS



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48-48	20MHz-10MHz	64QAM-64QAM	55941-56085	100RB#0-50RB#0	18.27	13.98	23	PASS
48-48	20MHz-10MHz	64QAM-64QAM	55941-56085	1RB#0-0RB#0	18.71	14.42	23	PASS
48-48	20MHz-10MHz	64QAM-64QAM	56541-56685	100RB#0-50RB#0	18.22	13.93	23	PASS
48-48	20MHz-10MHz	64QAM-64QAM	56541-56685	1RB#0-0RB#0	18.6	14.31	23	PASS
48-48	20MHz-10MHz	256QAM-256QAM	55340-55484	100RB#0-50RB#0	16.57	12.28	23	PASS
48-48	20MHz-10MHz	256QAM-256QAM	55340-55484	1RB#0-0RB#0	16.14	11.85	23	PASS
48-48	20MHz-10MHz	256QAM-256QAM	55941-56085	100RB#0-50RB#0	16.32	12.03	23	PASS
48-48	20MHz-10MHz	256QAM-256QAM	55941-56085	1RB#0-0RB#0	15.87	11.58	23	PASS
48-48	20MHz-10MHz	256QAM-256QAM	56541-56685	100RB#0-50RB#0	16.23	11.94	23	PASS
48-48	20MHz-10MHz	256QAM-256QAM	56541-56685	1RB#0-0RB#0	15.79	11.5	23	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55340-55511	100RB#0-75RB#0	19.45	15.16	23	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55340-55511	1RB#0-0RB#0	21.07	16.78	23	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55916-56087	100RB#0-75RB#0	19.18	14.89	23	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55916-56087	1RB#0-0RB#0	20.99	16.7	23	PASS
48-48	20MHz-15MHz	QPSK-QPSK	56491-56662	100RB#0-75RB#0	19.21	14.92	23	PASS
48-48	20MHz-15MHz	QPSK-QPSK	56491-56662	1RB#0-0RB#0	20.76	16.47	23	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55340-55511	100RB#0-75RB#0	18.56	14.27	23	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55340-55511	1RB#0-0RB#0	20.22	15.93	23	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55916-56087	100RB#0-75RB#0	18.26	13.97	23	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55916-56087	1RB#0-0RB#0	20.05	15.76	23	PASS
48-48	20MHz-15MHz	16QAM-16QAM	56491-56662	100RB#0-75RB#0	18.26	13.97	23	PASS
48-48	20MHz-15MHz	16QAM-16QAM	56491-56662	1RB#0-0RB#0	19.91	15.62	23	PASS
48-48	20MHz-15MHz	64QAM-64QAM	55340-55511	100RB#0-75RB#0	18.55	14.26	23	PASS
48-48	20MHz-15MHz	64QAM-64QAM	55340-55511	1RB#0-0RB#0	18.93	14.64	23	PASS
48-48	20MHz-15MHz	64QAM-64QAM	55916-56087	100RB#0-75RB#0	18.25	13.96	23	PASS
48-48	20MHz-15MHz	64QAM-64QAM	55916-56087	1RB#0-0RB#0	18.71	14.42	23	PASS
48-48	20MHz-15MHz	64QAM-64QAM	56491-56662	100RB#0-75RB#0	18.21	13.92	23	PASS
48-48	20MHz-15MHz	64QAM-64QAM	56491-56662	1RB#0-0RB#0	18.65	14.36	23	PASS
48-48	20MHz-15MHz	256QAM-256QAM	55340-55511	100RB#0-75RB#0	16.56	12.27	23	PASS
48-48	20MHz-15MHz	256QAM-256QAM	55340-55511	1RB#0-0RB#0	16.1	11.81	23	PASS
48-48	20MHz-15MHz	256QAM-256QAM	55916-56087	100RB#0-75RB#0	16.28	11.99	23	PASS
48-48	20MHz-15MHz	256QAM-256QAM	55916-56087	1RB#0-0RB#0	15.91	11.62	23	PASS
48-48	20MHz-15MHz	256QAM-256QAM	56491-56662	100RB#0-75RB#0	16.22	11.93	23	PASS



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48-48	20MHz-15MHz	256QAM-256QAM	56491-56662	1RB#0-0RB#0	15.81	11.52	23	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	100RB#0-100RB#0	19.44	15.15	23	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	1RB#0-0RB#0	21.19	16.9	23	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	100RB#0-100RB#0	19.22	14.93	23	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	1RB#0-0RB#0	21.02	16.73	23	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	19.16	14.87	23	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	1RB#0-0RB#0	20.8	16.51	23	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	100RB#0-100RB#0	18.48	14.19	23	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	1RB#0-0RB#0	20.28	15.99	23	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	100RB#0-100RB#0	18.26	13.97	23	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	1RB#0-0RB#0	20.1	15.81	23	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	100RB#0-100RB#0	18.22	13.93	23	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	1RB#0-0RB#0	19.86	15.57	23	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	100RB#0-100RB#0	18.43	14.14	23	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	1RB#0-0RB#0	18.97	14.68	23	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	100RB#0-100RB#0	18.23	13.94	23	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	1RB#0-0RB#0	18.77	14.48	23	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	100RB#0-100RB#0	18.2	13.91	23	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	1RB#0-0RB#0	18.57	14.28	23	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	100RB#0-100RB#0	16.47	12.18	23	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	1RB#0-0RB#0	16.12	11.83	23	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	100RB#0-100RB#0	16.23	11.94	23	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	1RB#0-0RB#0	15.96	11.67	23	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	100RB#0-100RB#0	16.2	11.91	23	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	1RB#0-0RB#0	15.76	11.47	23	PASS
48-48	20MHz-5MHz	QPSK-QPSK	55340-55457	100RB#0-25RB#0	19.62	15.33	23	PASS
48-48	20MHz-5MHz	QPSK-QPSK	55340-55457	1RB#0-0RB#0	21.67	17.38	23	PASS
48-48	20MHz-5MHz	QPSK-QPSK	55965-56082	100RB#0-25RB#0	19.26	14.97	23	PASS
48-48	20MHz-5MHz	QPSK-QPSK	55965-56082	1RB#0-0RB#0	21.4	17.11	23	PASS
48-48	20MHz-5MHz	QPSK-QPSK	56590-56707	100RB#0-25RB#0	19.38	15.09	23	PASS
48-48	20MHz-5MHz	QPSK-QPSK	56590-56707	1RB#0-0RB#0	21.23	16.94	23	PASS
48-48	20MHz-5MHz	16QAM-16QAM	55340-55457	100RB#0-25RB#0	18.65	14.36	23	PASS
48-48	20MHz-5MHz	16QAM-16QAM	55340-55457	1RB#0-0RB#0	20.74	16.45	23	PASS



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48-48	20MHz-5MHz	16QAM-16QAM	55965-56082	100RB#0-25RB#0	18.35	14.06	23	PASS
48-48	20MHz-5MHz	16QAM-16QAM	55965-56082	1RB#0-0RB#0	20.44	16.15	23	PASS
48-48	20MHz-5MHz	16QAM-16QAM	56590-56707	100RB#0-25RB#0	18.42	14.13	23	PASS
48-48	20MHz-5MHz	16QAM-16QAM	56590-56707	1RB#0-0RB#0	20.34	16.05	23	PASS
48-48	20MHz-5MHz	64QAM-64QAM	55340-55457	100RB#0-25RB#0	18.64	14.35	23	PASS
48-48	20MHz-5MHz	64QAM-64QAM	55340-55457	1RB#0-0RB#0	19.37	15.08	23	PASS
48-48	20MHz-5MHz	64QAM-64QAM	55965-56082	100RB#0-25RB#0	18.28	13.99	23	PASS
48-48	20MHz-5MHz	64QAM-64QAM	55965-56082	1RB#0-0RB#0	19.1	14.81	23	PASS
48-48	20MHz-5MHz	64QAM-64QAM	56590-56707	100RB#0-25RB#0	18.4	14.11	23	PASS
48-48	20MHz-5MHz	64QAM-64QAM	56590-56707	1RB#0-0RB#0	19.02	14.73	23	PASS
48-48	20MHz-5MHz	256QAM-256QAM	55340-55457	100RB#0-25RB#0	16.64	12.35	23	PASS
48-48	20MHz-5MHz	256QAM-256QAM	55340-55457	1RB#0-0RB#0	16.52	12.23	23	PASS
48-48	20MHz-5MHz	256QAM-256QAM	55965-56082	100RB#0-25RB#0	16.32	12.03	23	PASS
48-48	20MHz-5MHz	256QAM-256QAM	55965-56082	1RB#0-0RB#0	16.27	11.98	23	PASS
48-48	20MHz-5MHz	256QAM-256QAM	56590-56707	100RB#0-25RB#0	16.42	12.13	23	PASS
48-48	20MHz-5MHz	256QAM-256QAM	56590-56707	1RB#0-0RB#0	16.21	11.92	23	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55273-55390	1RB#0-0RB#0	21.3	17.01	23	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55273-55390	25RB#0-100RB#0	19.66	15.37	23	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55898-56015	1RB#0-0RB#0	20.93	16.64	23	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55898-56015	25RB#0-100RB#0	19.36	15.07	23	PASS
48-48	5MHz-20MHz	QPSK-QPSK	56523-56640	1RB#0-0RB#0	20.93	16.64	23	PASS
48-48	5MHz-20MHz	QPSK-QPSK	56523-56640	25RB#0-100RB#0	19.47	15.18	23	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55273-55390	1RB#0-0RB#0	20.36	16.07	23	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55273-55390	25RB#0-100RB#0	18.67	14.38	23	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55898-56015	1RB#0-0RB#0	20.09	15.8	23	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55898-56015	25RB#0-100RB#0	18.44	14.15	23	PASS
48-48	5MHz-20MHz	16QAM-16QAM	56523-56640	1RB#0-0RB#0	20.09	15.8	23	PASS
48-48	5MHz-20MHz	16QAM-16QAM	56523-56640	25RB#0-100RB#0	18.43	14.14	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55273-55390	1RB#0-0RB#0	18.94	14.65	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55273-55390	25RB#0-100RB#0	18.7	14.41	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55898-56015	1RB#0-0RB#0	18.7	14.41	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55898-56015	25RB#0-100RB#0	18.4	14.11	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	56523-56640	1RB#0-0RB#0	18.67	14.38	23	PASS



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48-48	5MHz-20MHz	64QAM-64QAM	56523-56640	25RB#0-100RB#0	18.46	14.17	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55273-55390	1RB#0-0RB#0	16.1	11.81	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55273-55390	25RB#0-100RB#0	16.77	12.48	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55898-56015	1RB#0-0RB#0	15.87	11.58	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55898-56015	25RB#0-100RB#0	16.43	12.14	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	56523-56640	1RB#0-0RB#0	15.83	11.54	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	56523-56640	25RB#0-100RB#0	16.53	12.24	23	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

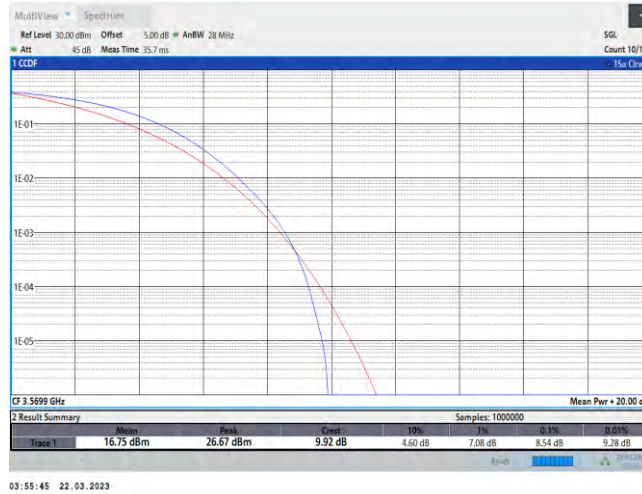
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	100RB#0-100RB#0	8.54	13	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	100RB#0-100RB#0	8.56	13	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	8.60	13	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	100RB#0-100RB#0	9.34	13	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	100RB#0-100RB#0	9.42	13	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	100RB#0-100RB#0	9.32	13	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	100RB#0-100RB#0	9.72	13	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	100RB#0-100RB#0	9.74	13	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	100RB#0-100RB#0	9.78	13	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	100RB#0-100RB#0	9.82	13	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	100RB#0-100RB#0	9.90	13	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	100RB#0-100RB#0	9.94	13	PASS



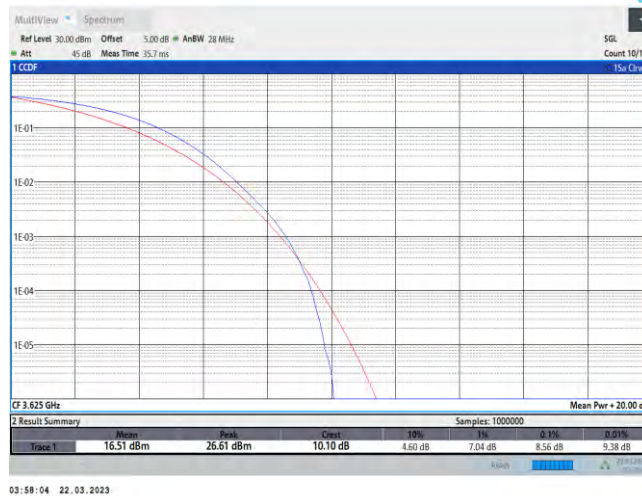
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Test Graphs

48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-100RB#0-100RB#0



48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-100RB#0-100RB#0

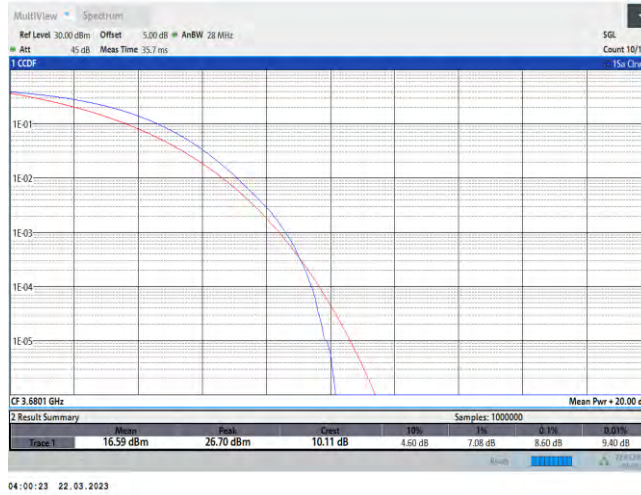


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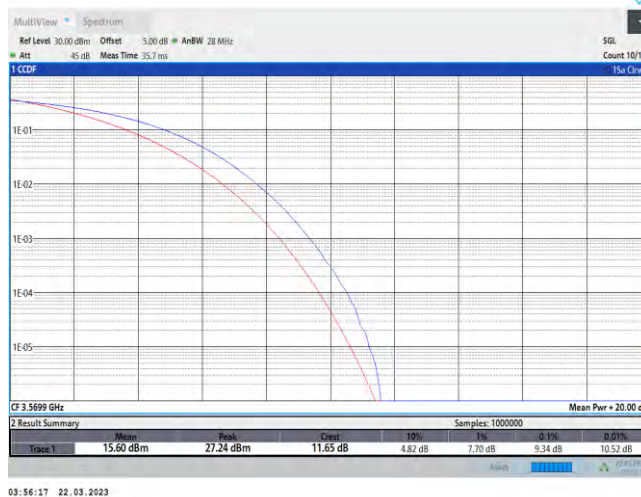
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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-100RB#0-100RB#0



48-48-20MHz-20MHz-16QAM-16QAM-55340-55538-100RB#0-100RB#0



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48-48-20MHz-20MHz-16QAM-16QAM-55891-56089-100RB#0-100RB#0

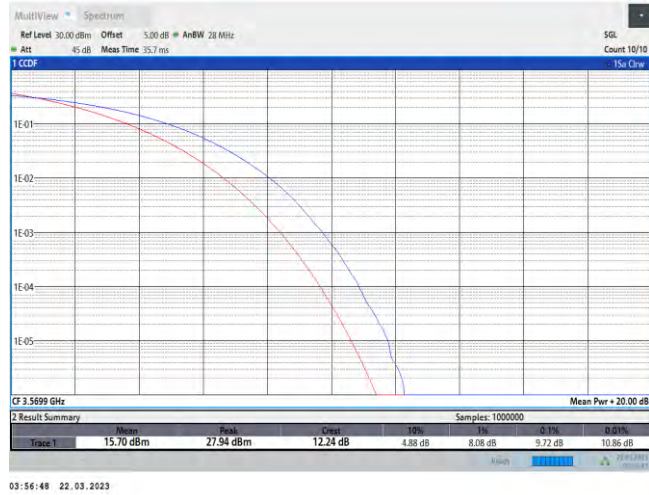


48-48-20MHz-20MHz-16QAM-16QAM-56442-56640-100RB#0-100RB#0

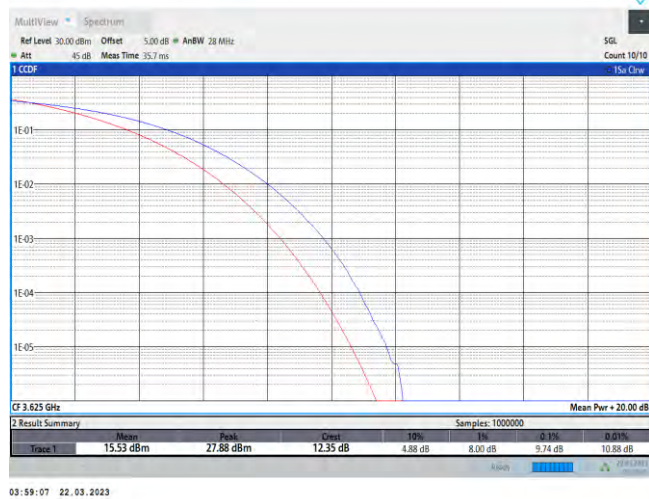


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48-48-20MHz-20MHz-64QAM-64QAM-55340-55538-100RB#0-100RB#0

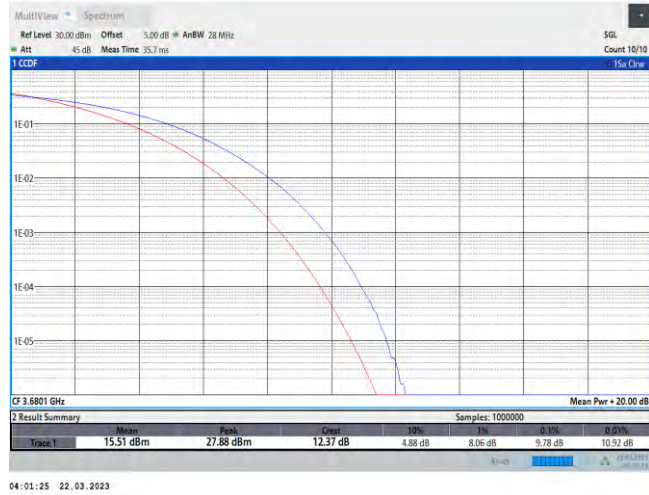


48-48-20MHz-20MHz-64QAM-64QAM-55891-56089-100RB#0-100RB#0

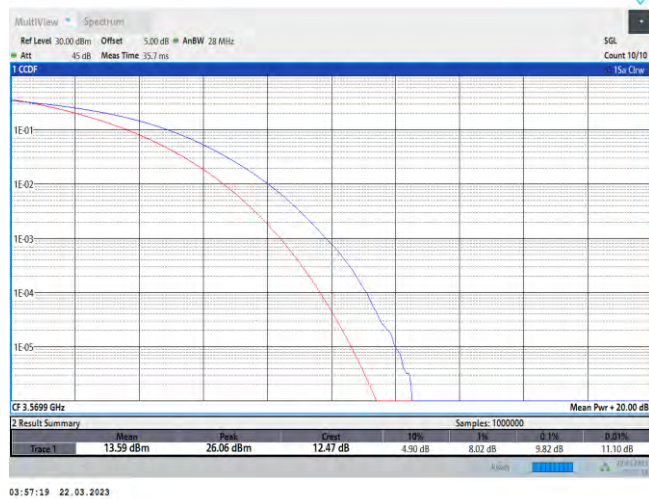


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48-48-20MHz-20MHz-64QAM-64QAM-56442-56640-100RB#0-100RB#0

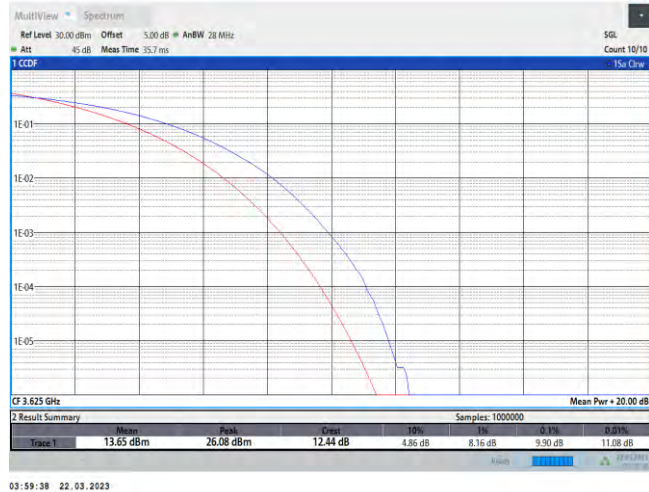


48-48-20MHz-20MHz-256QAM-256QAM-55340-55538-100RB#0-100RB#0



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48-48-20MHz-20MHz-256QAM-256QAM-55891-56089-100RB#0-100RB#0



48-48-20MHz-20MHz-256QAM-256QAM-56442-56640-100RB#0-100RB#0



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Modulation Characteristics

Test Result

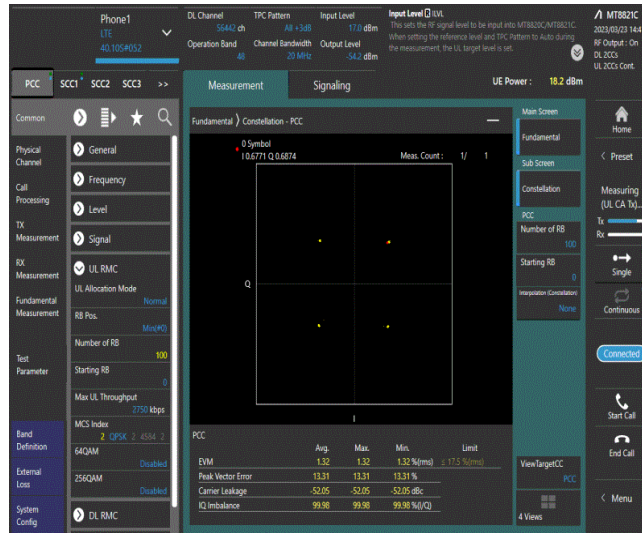
Band	Bandwidth	Modulation	Channel	RB Configuration	Verdict
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	100RB#0-100RB#0	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	100RB#0-100RB#0	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	100RB#0-100RB#0	PASS



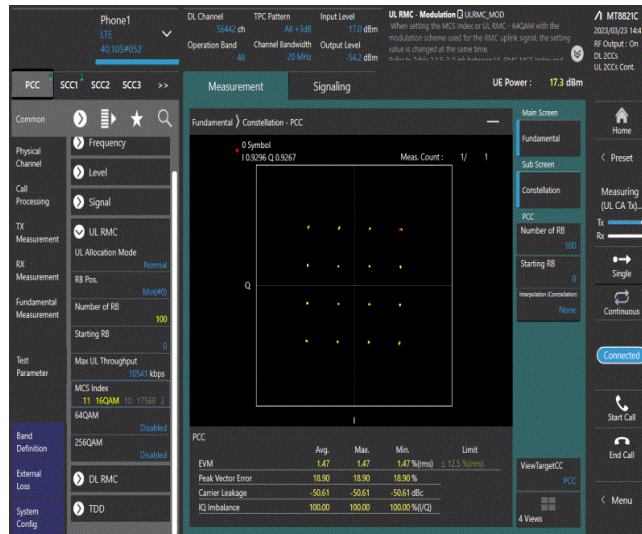
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Test Graphs

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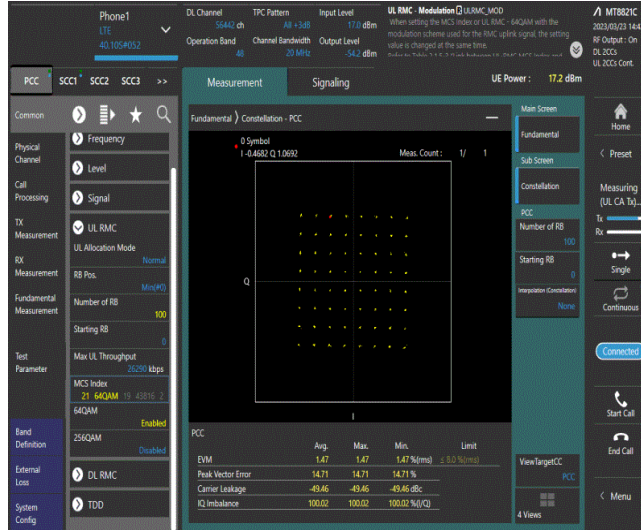


48-48-20MHz-20MHz-16QAM-16QAM-56442-56640-100RB#0-100RB#0

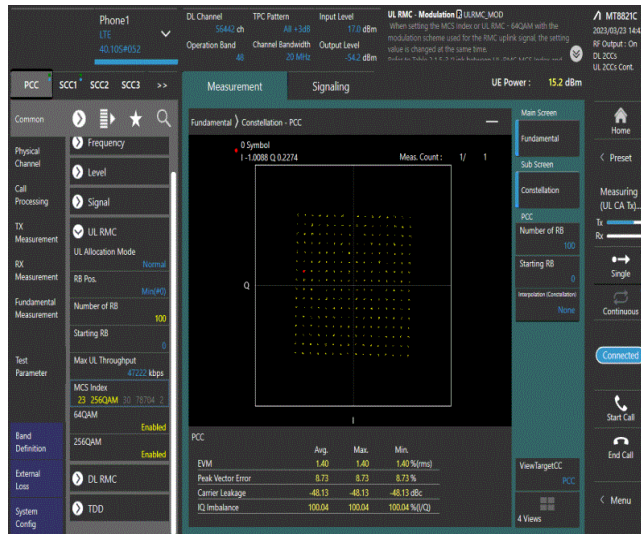


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48-48-20MHz-20MHz-64QAM-64QAM-56442-56640-100RB#0-100RB#0



48-48-20MHz-20MHz-256QAM-256QAM-56442-56640-100RB#0-100RB#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
48-48	10MHz-20MHz	QPSK-QPSK	55295-55439	50RB#0-100RB#0	27.626	29.08	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55896-56040	50RB#0-100RB#0	27.644	29.08	PASS
48-48	10MHz-20MHz	QPSK-QPSK	56496-56640	50RB#0-100RB#0	27.665	29.08	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55295-55439	50RB#0-100RB#0	27.654	29.08	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55896-56040	50RB#0-100RB#0	27.648	29.08	PASS
48-48	10MHz-20MHz	16QAM-16QAM	56496-56640	50RB#0-100RB#0	27.659	29.08	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55295-55439	50RB#0-100RB#0	27.646	29.08	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55896-56040	50RB#0-100RB#0	27.65	29.08	PASS
48-48	10MHz-20MHz	64QAM-64QAM	56496-56640	50RB#0-100RB#0	27.668	29.08	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55295-55439	50RB#0-100RB#0	27.626	29.08	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55896-56040	50RB#0-100RB#0	27.64	29.08	PASS
48-48	10MHz-20MHz	256QAM-256QAM	56496-56640	50RB#0-100RB#0	27.645	29.08	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55318-55489	75RB#0-100RB#0	32.541	34.17	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55893-56064	75RB#0-100RB#0	32.533	34.17	PASS
48-48	15MHz-20MHz	QPSK-QPSK	56469-56640	75RB#0-100RB#0	32.532	34.17	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55318-55489	75RB#0-100RB#0	32.546	34.17	PASS
48-48	15MHz-20MHz	16QAM-16QAM	55893-56064	75RB#0-100RB#0	32.554	34.17	PASS
48-48	15MHz-20MHz	16QAM-16QAM	56469-56640	75RB#0-100RB#0	32.542	34.17	PASS
48-48	15MHz-20MHz	64QAM-64QAM	55318-55489	75RB#0-100RB#0	32.549	34.17	PASS
48-48	15MHz-20MHz	64QAM-64QAM	55893-56064	75RB#0-100RB#0	32.525	34.17	PASS
48-48	15MHz-20MHz	64QAM-64QAM	56469-56640	75RB#0-100RB#0	32.553	34.17	PASS
48-48	15MHz-20MHz	256QAM-256QAM	55318-55489	75RB#0-100RB#0	32.517	34.17	PASS
48-48	15MHz-20MHz	256QAM-256QAM	55893-56064	75RB#0-100RB#0	32.549	34.08	PASS
48-48	15MHz-20MHz	256QAM-256QAM	56469-56640	75RB#0-100RB#0	32.529	34.17	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55340-55484	100RB#0-50RB#0	27.716	29.17	PASS
48-48	20MHz-10MHz	QPSK-QPSK	55941-56085	100RB#0-50RB#0	27.701	29.17	PASS
48-48	20MHz-10MHz	QPSK-QPSK	56541-56685	100RB#0-50RB#0	27.708	29.17	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55340-55484	100RB#0-50RB#0	27.708	29.25	PASS
48-48	20MHz-10MHz	16QAM-16QAM	55941-56085	100RB#0-50RB#0	27.727	29.17	PASS
48-48	20MHz-10MHz	16QAM-16QAM	56541-56685	100RB#0-50RB#0	27.711	29.17	PASS
48-48	20MHz-10MHz	64QAM-64QAM	55340-55484	100RB#0-50RB#0	27.714	29.17	PASS



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48-48	20MHz-10MHz	64QAM-64QAM	55941-56085	100RB#0-50RB#0	27.708	29.17	PASS
48-48	20MHz-10MHz	64QAM-64QAM	56541-56685	100RB#0-50RB#0	27.696	29.17	PASS
48-48	20MHz-10MHz	256QAM-256QAM	55340-55484	100RB#0-50RB#0	27.699	29.17	PASS
48-48	20MHz-10MHz	256QAM-256QAM	55941-56085	100RB#0-50RB#0	27.707	29.17	PASS
48-48	20MHz-10MHz	256QAM-256QAM	56541-56685	100RB#0-50RB#0	27.695	29.17	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55340-55511	100RB#0-75RB#0	32.571	34.08	PASS
48-48	20MHz-15MHz	QPSK-QPSK	55916-56087	100RB#0-75RB#0	32.57	34.08	PASS
48-48	20MHz-15MHz	QPSK-QPSK	56491-56662	100RB#0-75RB#0	32.578	34.08	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55340-55511	100RB#0-75RB#0	32.577	34.17	PASS
48-48	20MHz-15MHz	16QAM-16QAM	55916-56087	100RB#0-75RB#0	32.552	34.17	PASS
48-48	20MHz-15MHz	16QAM-16QAM	56491-56662	100RB#0-75RB#0	32.577	34.17	PASS
48-48	20MHz-15MHz	64QAM-64QAM	55340-55511	100RB#0-75RB#0	32.585	34.17	PASS
48-48	20MHz-15MHz	64QAM-64QAM	55916-56087	100RB#0-75RB#0	32.576	34.17	PASS
48-48	20MHz-15MHz	64QAM-64QAM	56491-56662	100RB#0-75RB#0	32.588	34.08	PASS
48-48	20MHz-15MHz	256QAM-256QAM	55340-55511	100RB#0-75RB#0	32.555	34.17	PASS
48-48	20MHz-15MHz	256QAM-256QAM	55916-56087	100RB#0-75RB#0	32.568	34.17	PASS
48-48	20MHz-15MHz	256QAM-256QAM	56491-56662	100RB#0-75RB#0	32.543	34.08	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55340-55538	100RB#0-100RB#0	37.649	40.13	PASS
48-48	20MHz-20MHz	QPSK-QPSK	55891-56089	100RB#0-100RB#0	37.664	40.27	PASS
48-48	20MHz-20MHz	QPSK-QPSK	56442-56640	100RB#0-100RB#0	37.66	40.27	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55340-55538	100RB#0-100RB#0	37.663	40.13	PASS
48-48	20MHz-20MHz	16QAM-16QAM	55891-56089	100RB#0-100RB#0	37.662	40.27	PASS
48-48	20MHz-20MHz	16QAM-16QAM	56442-56640	100RB#0-100RB#0	37.703	40.27	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55340-55538	100RB#0-100RB#0	37.65	40.27	PASS
48-48	20MHz-20MHz	64QAM-64QAM	55891-56089	100RB#0-100RB#0	37.677	40.13	PASS
48-48	20MHz-20MHz	64QAM-64QAM	56442-56640	100RB#0-100RB#0	37.662	40.27	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55340-55538	100RB#0-100RB#0	37.641	40.27	PASS
48-48	20MHz-20MHz	256QAM-256QAM	55891-56089	100RB#0-100RB#0	37.622	40.13	PASS
48-48	20MHz-20MHz	256QAM-256QAM	56442-56640	100RB#0-100RB#0	37.639	40.13	PASS
48-48	20MHz-5MHz	QPSK-QPSK	55340-55457	100RB#0-25RB#0	22.885	24.17	PASS
48-48	20MHz-5MHz	QPSK-QPSK	55965-56082	100RB#0-25RB#0	22.88	24.17	PASS
48-48	20MHz-5MHz	QPSK-QPSK	56590-56707	100RB#0-25RB#0	22.889	24.17	PASS
48-48	20MHz-5MHz	16QAM-16QAM	55340-55457	100RB#0-25RB#0	22.914	24.17	PASS
48-48	20MHz-5MHz	16QAM-16QAM	55965-56082	100RB#0-25RB#0	22.894	24.25	PASS
48-48	20MHz-5MHz	16QAM-16QAM	56590-56707	100RB#0-25RB#0	22.892	24.17	PASS
48-48	20MHz-5MHz	64QAM-64QAM	55340-55457	100RB#0-25RB#0	22.898	24.25	PASS
48-48	20MHz-5MHz	64QAM-64QAM	55965-56082	100RB#0-25RB#0	22.896	24.25	PASS
48-48	20MHz-5MHz	64QAM-64QAM	56590-56707	100RB#0-25RB#0	22.901	24.25	PASS
48-48	20MHz-5MHz	256QAM-256QAM	55340-55457	100RB#0-25RB#0	22.887	24.17	PASS



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48-48	20MHz-5MHz	256QAM-256QAM	55965-56082	100RB#0-25RB#0	22.871	24.17	PASS
48-48	20MHz-5MHz	256QAM-256QAM	56590-56707	100RB#0-25RB#0	22.891	24.17	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55273-55390	25RB#0-100RB#0	22.854	24.08	PASS
48-48	5MHz-20MHz	QPSK-QPSK	55898-56015	25RB#0-100RB#0	22.874	24.08	PASS
48-48	5MHz-20MHz	QPSK-QPSK	56523-56640	25RB#0-100RB#0	22.875	24.08	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55273-55390	25RB#0-100RB#0	22.852	24.08	PASS
48-48	5MHz-20MHz	16QAM-16QAM	55898-56015	25RB#0-100RB#0	22.867	24.08	PASS
48-48	5MHz-20MHz	16QAM-16QAM	56523-56640	25RB#0-100RB#0	22.861	24.17	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55273-55390	25RB#0-100RB#0	22.873	24.17	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55898-56015	25RB#0-100RB#0	22.852	24.08	PASS
48-48	5MHz-20MHz	64QAM-64QAM	56523-56640	25RB#0-100RB#0	22.876	24.17	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55273-55390	25RB#0-100RB#0	22.824	24.17	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55898-56015	25RB#0-100RB#0	22.844	24.08	PASS
48-48	5MHz-20MHz	256QAM-256QAM	56523-56640	25RB#0-100RB#0	22.835	24.08	PASS



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Test Graphs

48-48-10MHz-20MHz-QPSK-QPSK-55295-55439-50RB#0-100RB#0



01:30:30 22.03.2023

48-48-10MHz-20MHz-QPSK-QPSK-55896-56040-50RB#0-100RB#0



01:32:52 22.03.2023



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48-48-10MHz-20MHz-QPSK-QPSK-56496-56640-50RB#0-100RB#0



01:35:43 22.03.2023

48-48-10MHz-20MHz-16QAM-16QAM-55295-55439-50RB#0-100RB#0



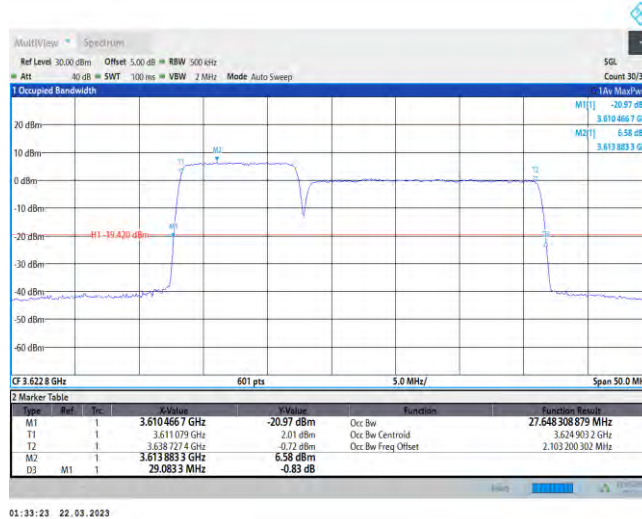
01:31:02 22.03.2023



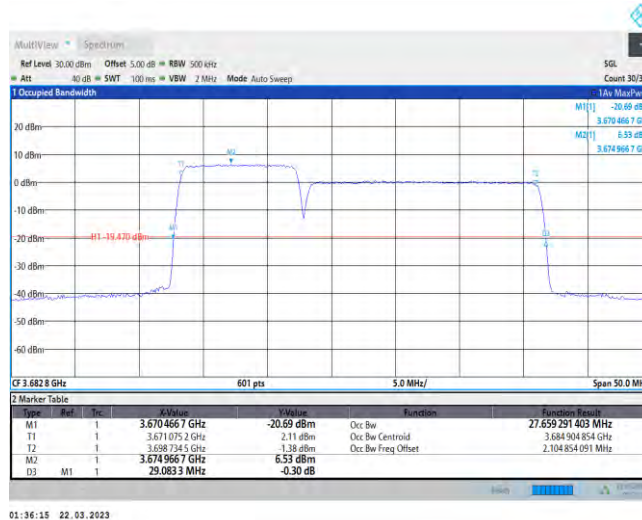
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48-48-10MHz-20MHz-16QAM-16QAM-55896-56040-50RB#0-100RB#0



48-48-10MHz-20MHz-16QAM-16QAM-56496-56640-50RB#0-100RB#0



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48-48-10MHz-20MHz-64QAM-64QAM-55295-55439-50RB#0-100RB#0



48-48-10MHz-20MHz-64QAM-64QAM-55896-56040-50RB#0-100RB#0



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48-48-10MHz-20MHz-64QAM-64QAM-56496-56640-50RB#0-100RB#0



01:36:47 22.03.2023

48-48-10MHz-20MHz-256QAM-256QAM-55295-55439-50RB#0-100RB#0



01:32:05 22.03.2023



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48-48-10MHz-20MHz-256QAM-256QAM-55896-56040-50RB#0-100RB#0



01:34:27 22.03.2023

48-48-10MHz-20MHz-256QAM-256QAM-56496-56640-50RB#0-100RB#0



01:37:19 22.03.2023



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48-48-15MHz-20MHz-QPSK-QPSK-55318-55489-75RB#0-100RB#0



01:46:16 22.03.2023

48-48-15MHz-20MHz-QPSK-QPSK-55893-56064-75RB#0-100RB#0



01:48:39 22.03.2023



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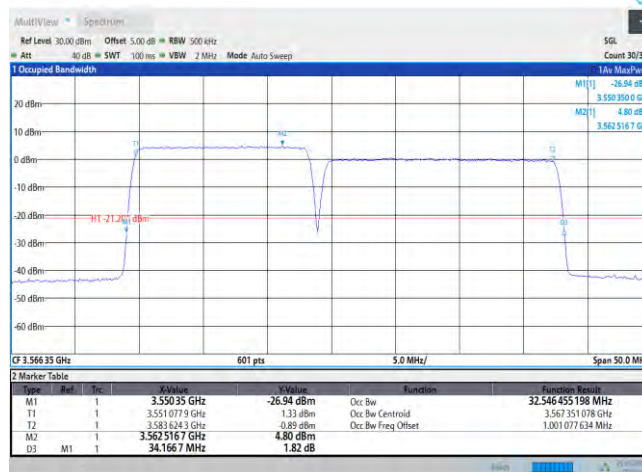
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48-48-15MHz-20MHz-QPSK-QPSK-56469-56640-75RB#0-100RB#0



01:51:01 22.03.2023

48-48-15MHz-20MHz-16QAM-16QAM-55318-55489-75RB#0-100RB#0



01:46:48 22.03.2023



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48-48-15MHz-20MHz-16QAM-16QAM-55893-56064-75RB#0-100RB#0

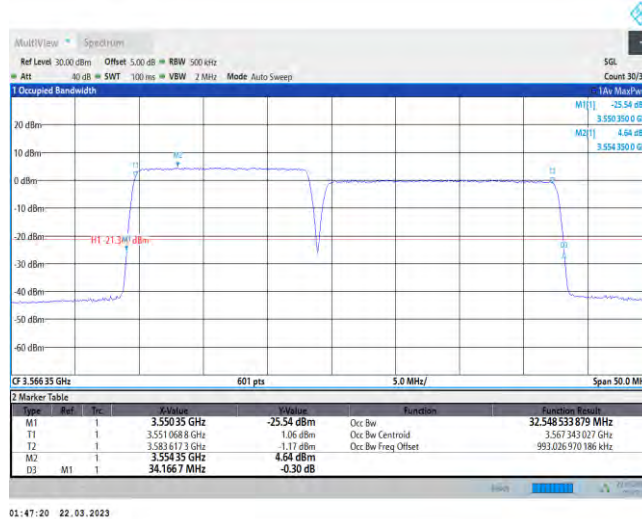


48-48-15MHz-20MHz-16QAM-16QAM-56469-56640-75RB#0-100RB#0

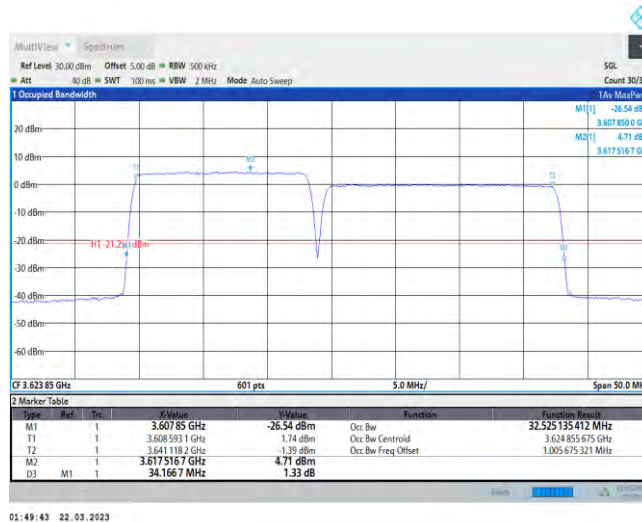


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48-48-15MHz-20MHz-64QAM-64QAM-55318-55489-75RB#0-100RB#0



48-48-15MHz-20MHz-64QAM-64QAM-55893-56064-75RB#0-100RB#0



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48-48-15MHz-20MHz-64QAM-64QAM-56469-56640-75RB#0-100RB#0



01:52:05 22.03.2023

48-48-15MHz-20MHz-256QAM-256QAM-55318-55489-75RB#0-100RB#0



01:47:52 22.03.2023



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48-48-15MHz-20MHz-256QAM-256QAM-55893-56064-75RB#0-100RB#0



48-48-15MHz-20MHz-256QAM-256QAM-56469-56640-75RB#0-100RB#0



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48-48-20MHz-10MHz-QPSK-QPSK-55340-55484-100RB#0-50RB#0



01:38:36 22.03.2023

48-48-20MHz-10MHz-QPSK-QPSK-55941-56085-100RB#0-50RB#0



01:40:59 22.03.2023



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48-48-20MHz-10MHz-QPSK-QPSK-56541-56685-100RB#0-50RB#0



48-48-20MHz-10MHz-16QAM-16QAM-55340-55484-100RB#0-50RB#0



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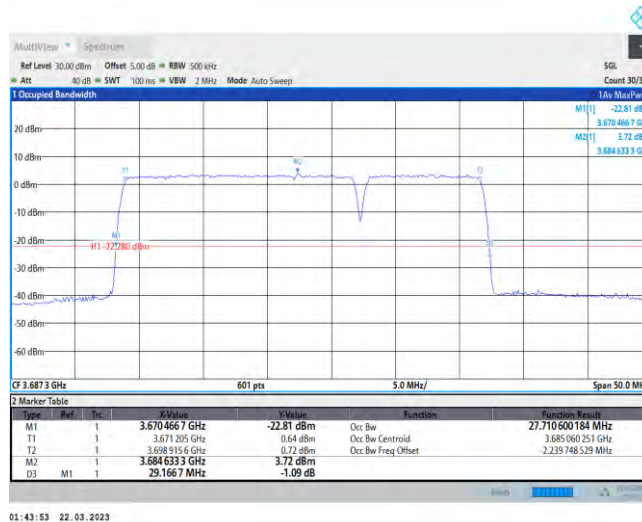
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48-48-20MHz-10MHz-16QAM-16QAM-55941-56085-100RB#0-50RB#0



48-48-20MHz-10MHz-16QAM-16QAM-56541-56685-100RB#0-50RB#0



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48-48-20MHz-10MHz-64QAM-64QAM-55340-55484-100RB#0-50RB#0



48-48-20MHz-10MHz-64QAM-64QAM-55941-56085-100RB#0-50RB#0



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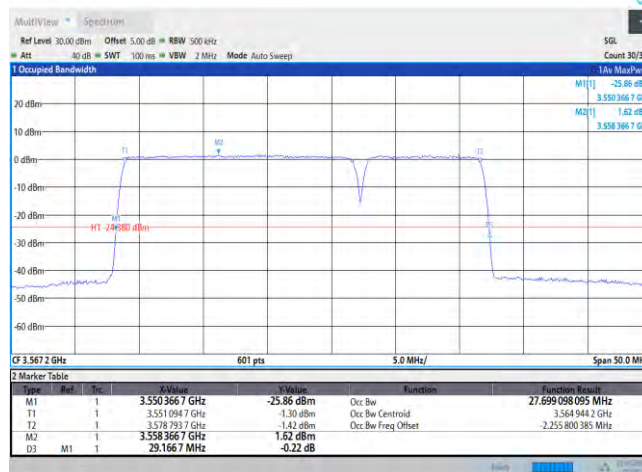
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48-48-20MHz-10MHz-64QAM-64QAM-56541-56685-100RB#0-50RB#0



01:44:25 22.03.2023

48-48-20MHz-10MHz-256QAM-256QAM-55340-55484-100RB#0-50RB#0



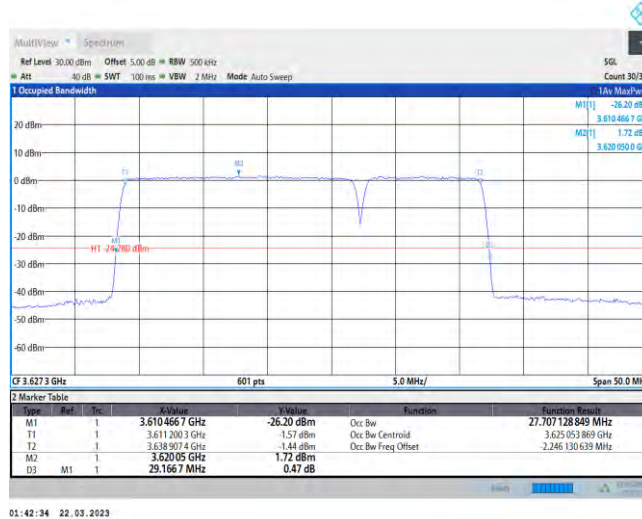
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01:42:34 22.03.2023

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01:44:57 22.03.2023



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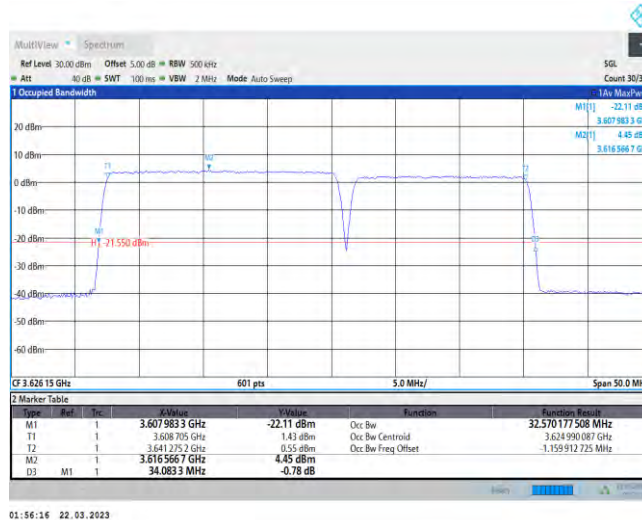
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48-48-20MHz-15MHz-QPSK-QPSK-55340-55511-100RB#0-75RB#0



01:53:54 22.03.2023

48-48-20MHz-15MHz-QPSK-QPSK-55916-56087-100RB#0-75RB#0



01:56:16 22.03.2023



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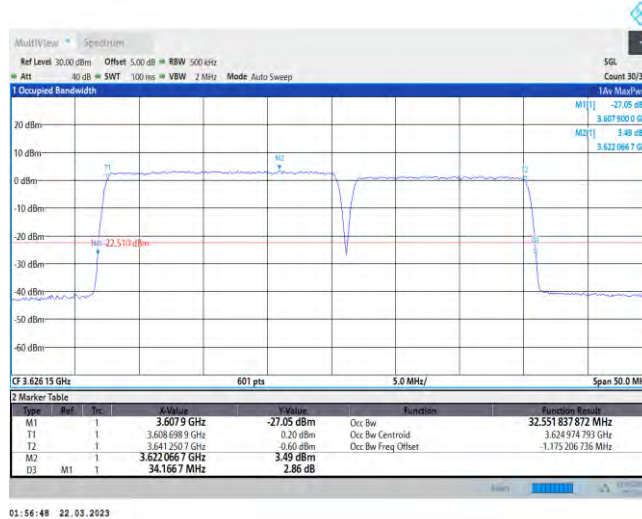


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48-48-20MHz-15MHz-16QAM-16QAM-55916-56087-100RB#0-75RB#0



48-48-20MHz-15MHz-16QAM-16QAM-56491-56662-100RB#0-75RB#0

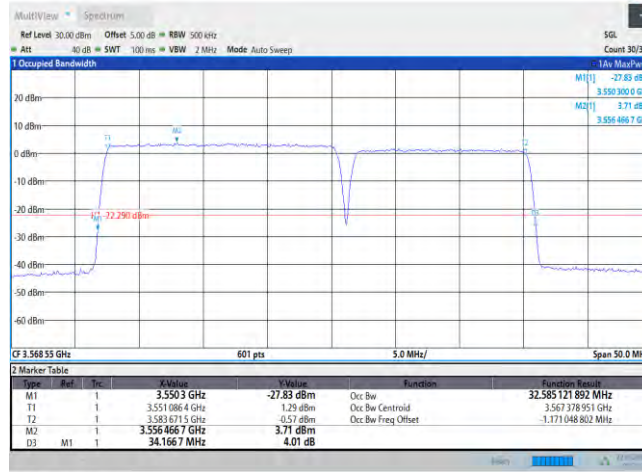


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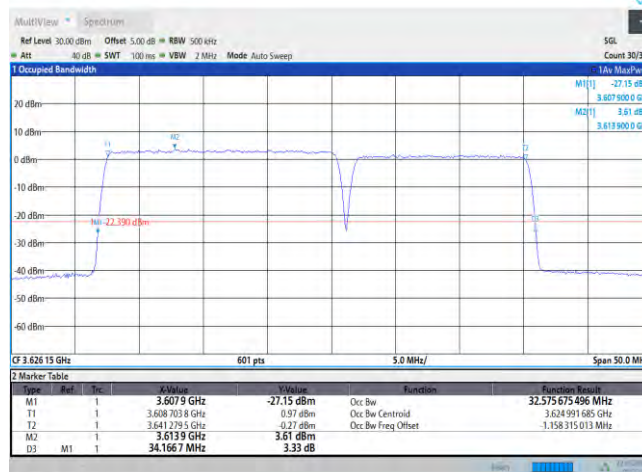
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48-48-20MHz-15MHz-64QAM-64QAM-55340-55511-100RB#0-75RB#0



01:54:58 22.03.2023

48-48-20MHz-15MHz-64QAM-64QAM-55916-56087-100RB#0-75RB#0



01:57:20 22.03.2023



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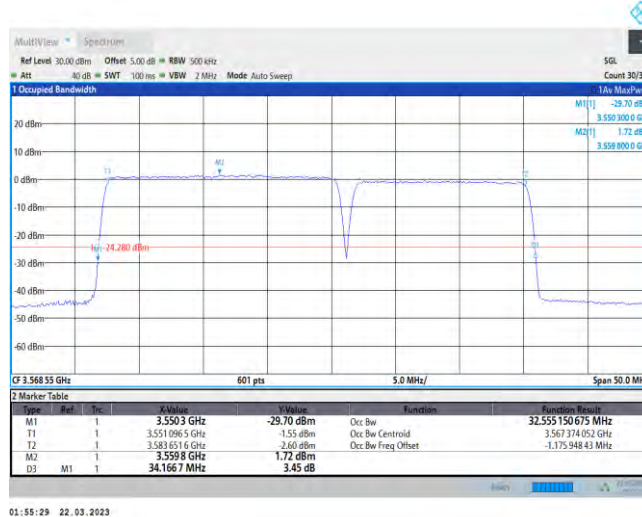
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48-48-20MHz-15MHz-64QAM-64QAM-56491-56662-100RB#0-75RB#0



01:59:42 22.03.2023

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01:55:29 22.03.2023



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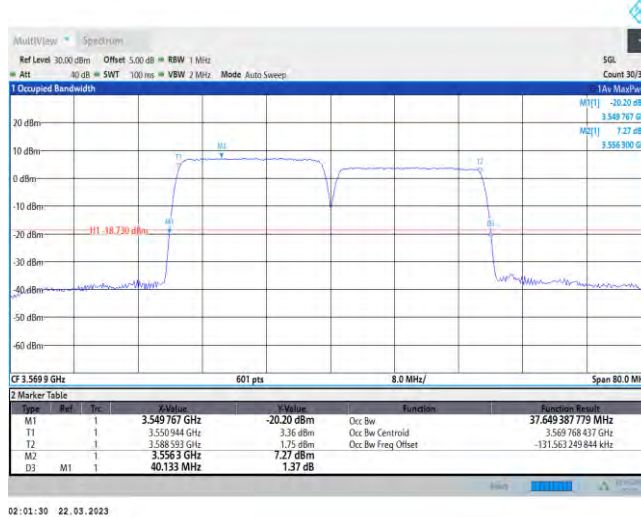


02:00:14 22.03.2023

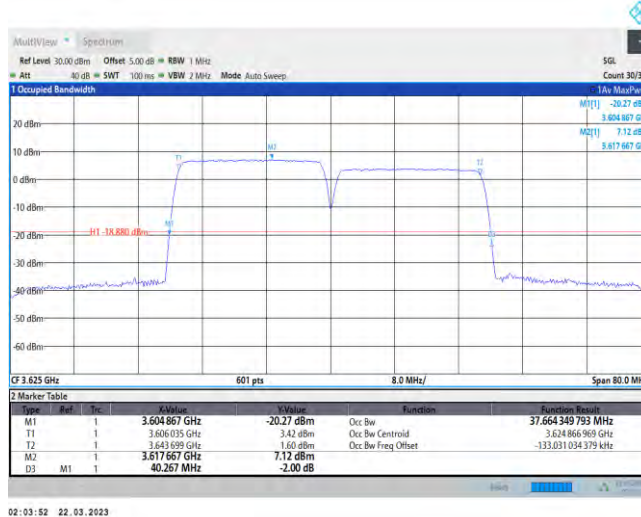


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48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-100RB#0-100RB#0



48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-100RB#0-100RB#0

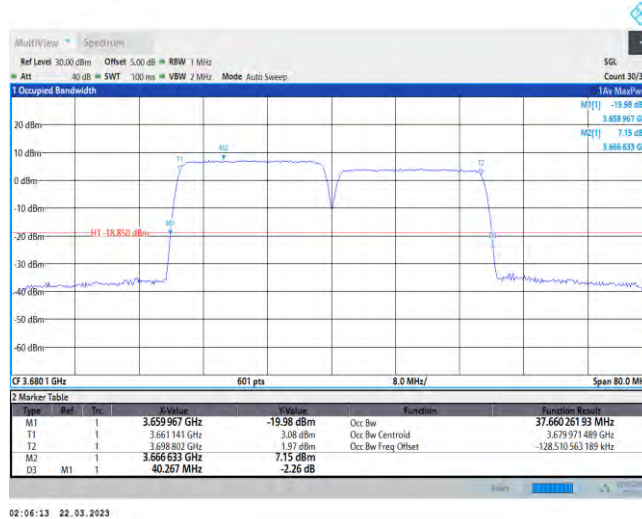


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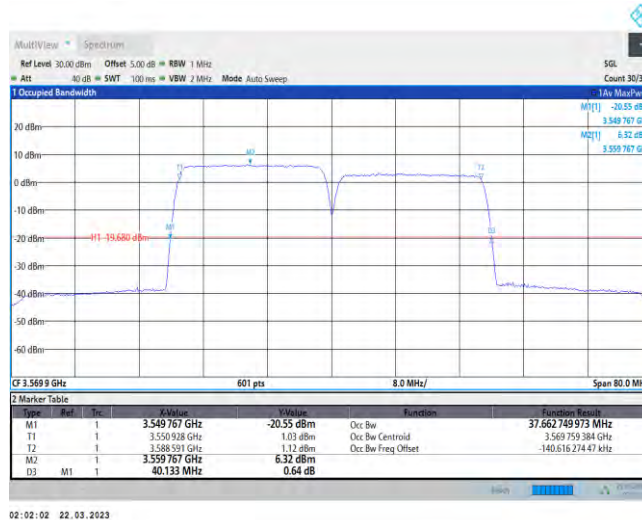
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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-100RB#0-100RB#0

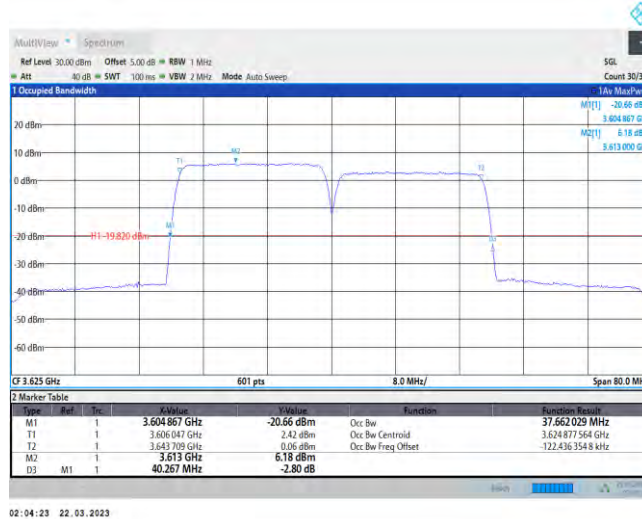


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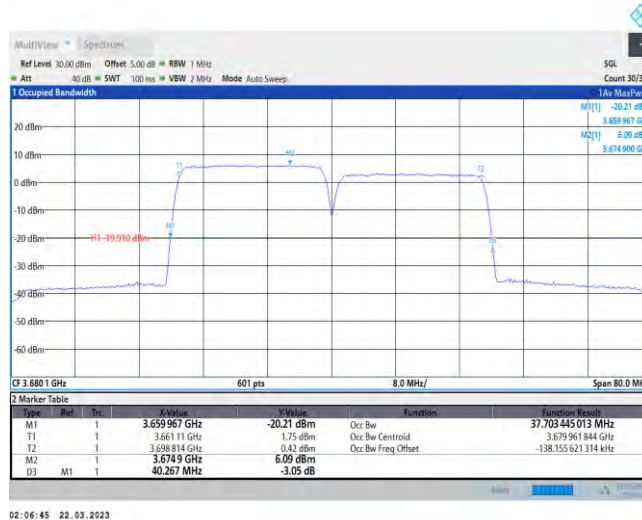


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48-48-20MHz-20MHz-16QAM-16QAM-55891-56089-100RB#0-100RB#0



48-48-20MHz-20MHz-16QAM-16QAM-56442-56640-100RB#0-100RB#0



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48-48-20MHz-20MHz-64QAM-64QAM-55340-55538-100RB#0-100RB#0



48-48-20MHz-20MHz-64QAM-64QAM-55891-56089-100RB#0-100RB#0



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48-48-20MHz-20MHz-64QAM-64QAM-56442-56640-100RB#0-100RB#0



02:07:17 22.03.2023

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02:03:06 22.03.2023



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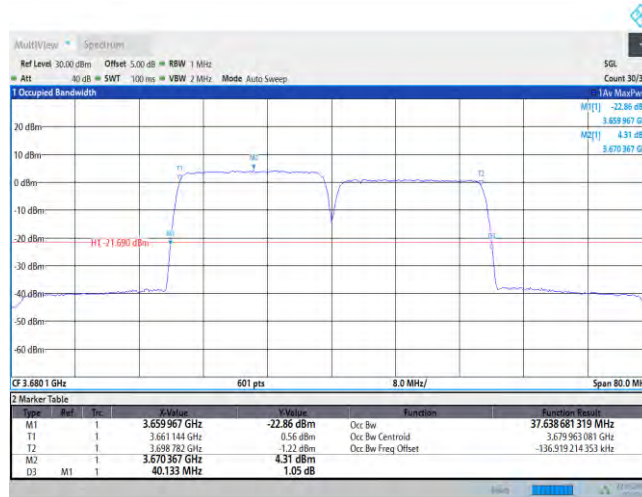
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48-48-20MHz-20MHz-256QAM-256QAM-55891-56089-100RB#0-100RB#0



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02:07:48 22.03.2023



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48-48-20MHz-5MHz-QPSK-QPSK-55340-55457-100RB#0-25RB#0



01:22:50 22.03.2023

48-48-20MHz-5MHz-QPSK-QPSK-55965-56082-100RB#0-25RB#0



01:25:13 22.03.2023

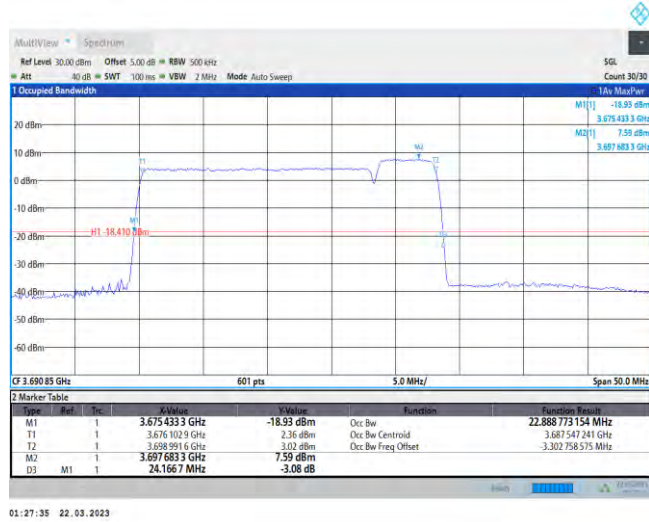


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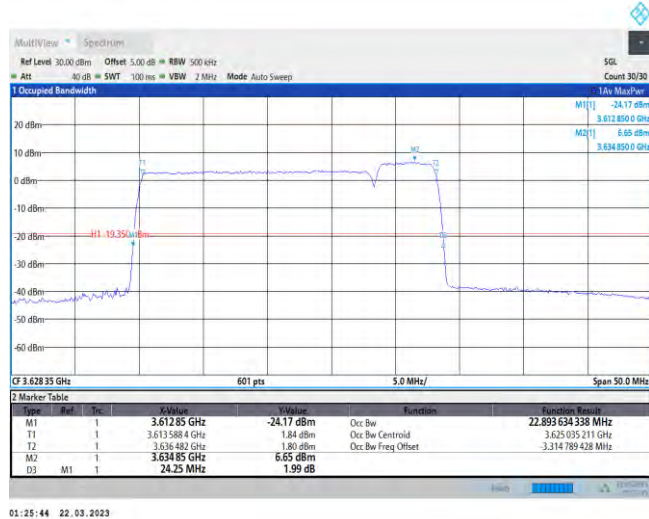
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48-48-20MHz-5MHz-16QAM-16QAM-55965-56082-100RB#0-25RB#0



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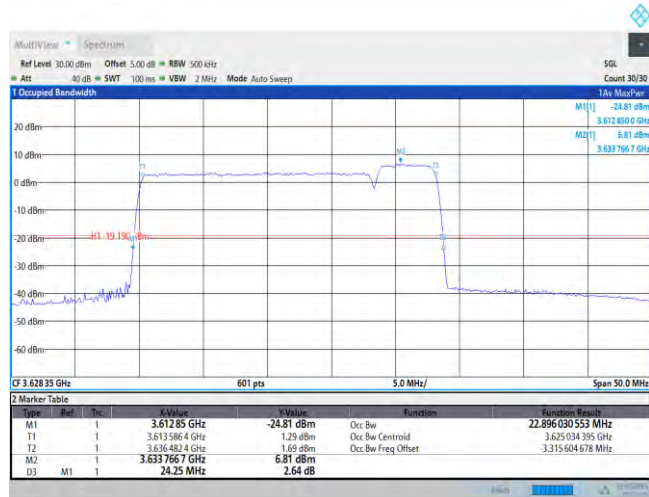
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48-48-20MHz-5MHz-64QAM-64QAM-55340-55457-100RB#0-25RB#0



01:23:54 22.03.2023

48-48-20MHz-5MHz-64QAM-64QAM-55965-56082-100RB#0-25RB#0



01:26:16 22.03.2023



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48-48-20MHz-5MHz-64QAM-64QAM-56590-56707-100RB#0-25RB#0



01:28:39 22.03.2023

48-48-20MHz-5MHz-256QAM-256QAM-55340-55457-100RB#0-25RB#0



01:24:25 22.03.2023



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01:26:48 22.03.2023

48-48-20MHz-5MHz-256QAM-256QAM-56590-56707-100RB#0-25RB#0



01:29:10 22.03.2023

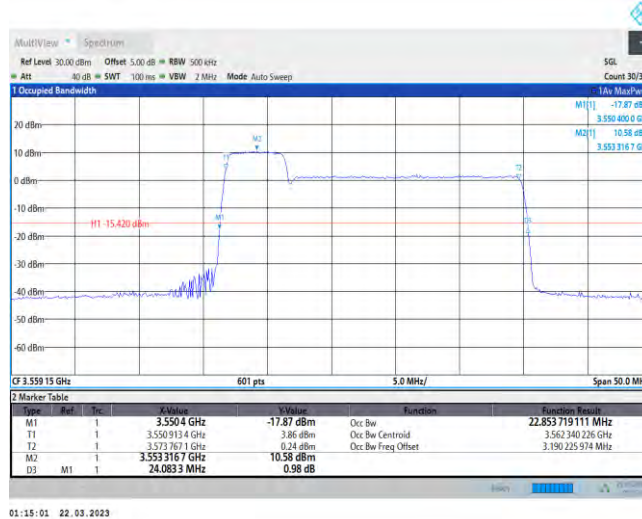


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48-48-5MHz-20MHz-QPSK-QPSK-55273-55390-25RB#0-100RB#0



01:15:01 22.03.2023

48-48-5MHz-20MHz-QPSK-QPSK-55898-56015-25RB#0-100RB#0



01:17:34 22.03.2023



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48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-25RB#0-100RB#0



01:19:55 22.03.2023

48-48-5MHz-20MHz-16QAM-16QAM-55273-55390-25RB#0-100RB#0



01:15:32 22.03.2023



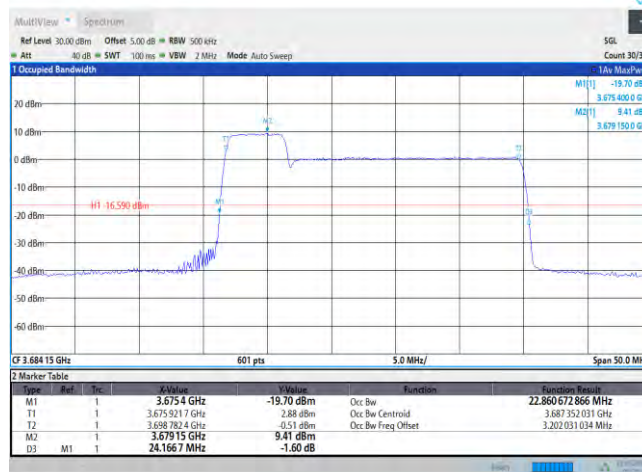
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48-48-5MHz-20MHz-16QAM-16QAM-55898-56015-25RB#0-100RB#0



01:18:05 22.03.2023

48-48-5MHz-20MHz-16QAM-16QAM-56523-56640-25RB#0-100RB#0



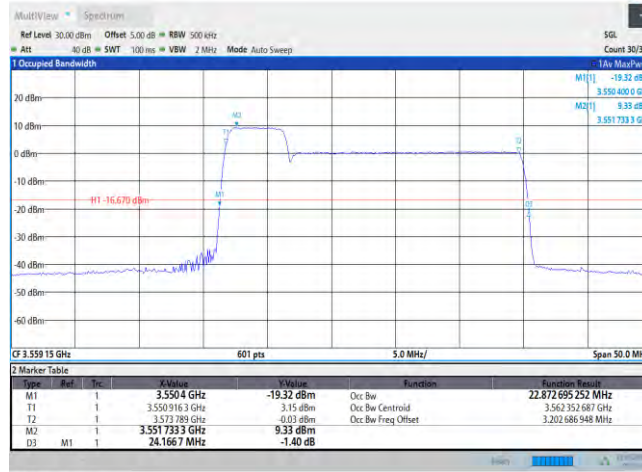
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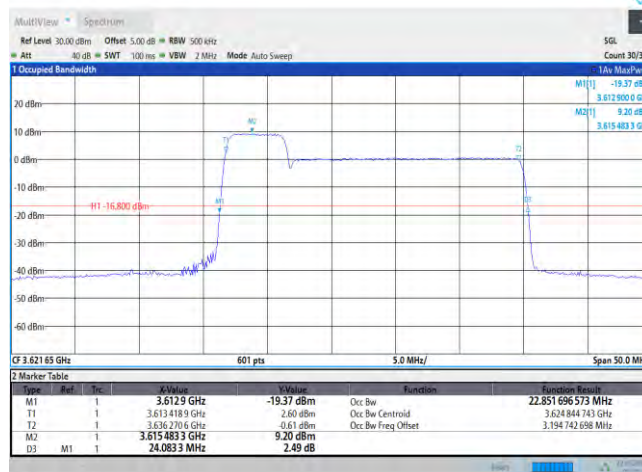
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48-48-5MHz-20MHz-64QAM-64QAM-55273-55390-25RB#0-100RB#0



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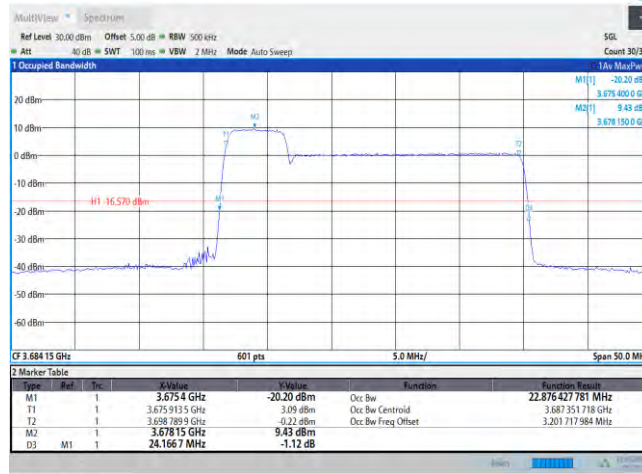


01:18:37 22.03.2023



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48-48-5MHz-20MHz-64QAM-64QAM-56523-56640-25RB#0-100RB#0



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48-48-5MHz-20MHz-256QAM-256QAM-55273-55390-25RB#0-100RB#0



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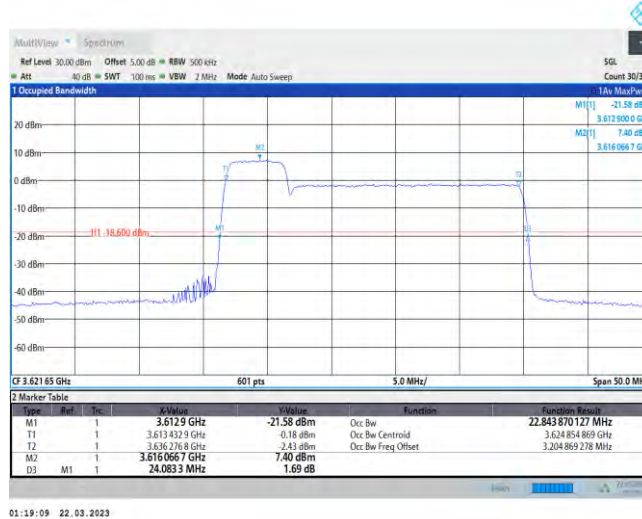


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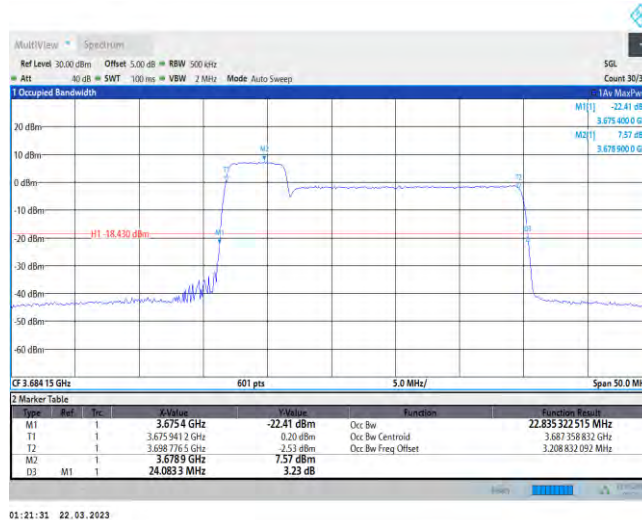
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48-48-5MHz-20MHz-256QAM-256QAM-55898-56015-25RB#0-100RB#0



48-48-5MHz-20MHz-256QAM-256QAM-56523-56640-25RB#0-100RB#0

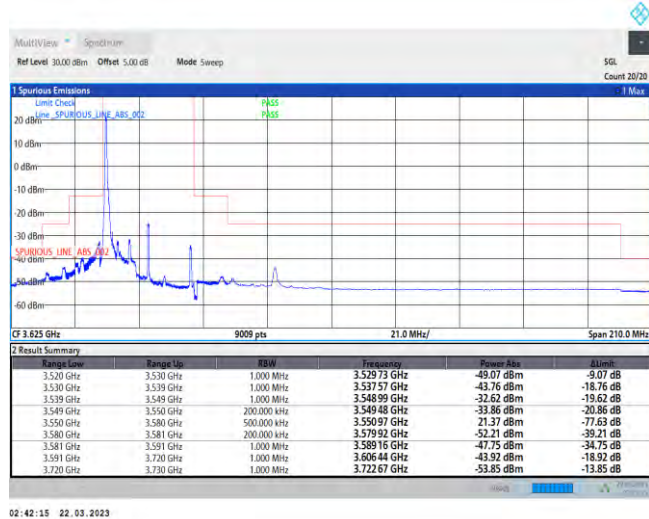


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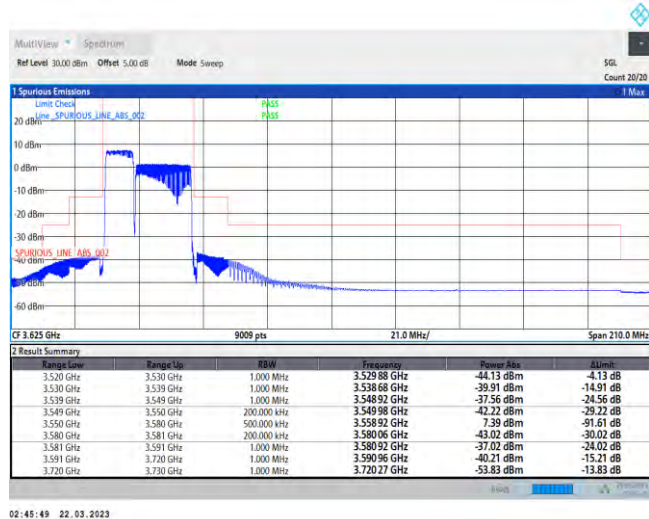
Band Edge

Test Graphs

48-48-10MHz-20MHz-QPSK-QPSK-55295-55439-1RB#0-0RB#0

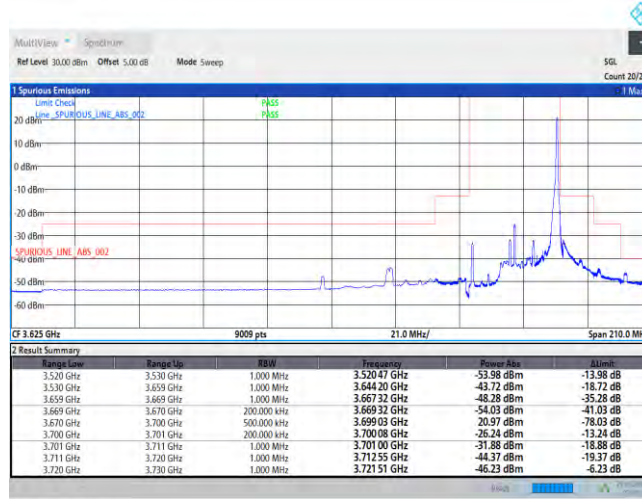


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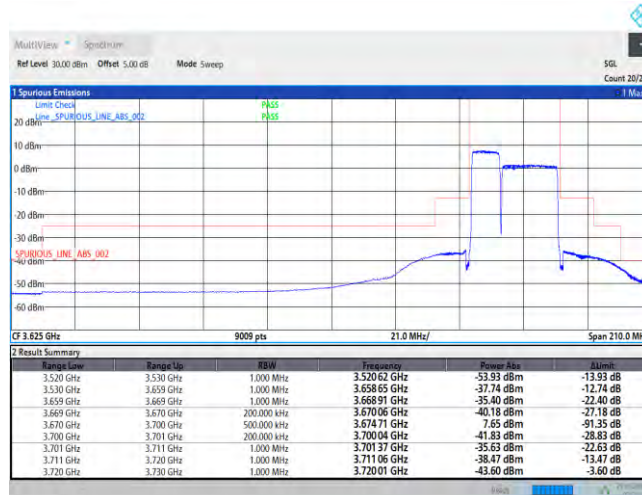
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48-48-10MHz-20MHz-QPSK-QPSK-56496-56640-0RB#0-1RB#99



02:49:39 22.03.2023

48-48-10MHz-20MHz-QPSK-QPSK-56496-56640-50RB#0-100RB#0

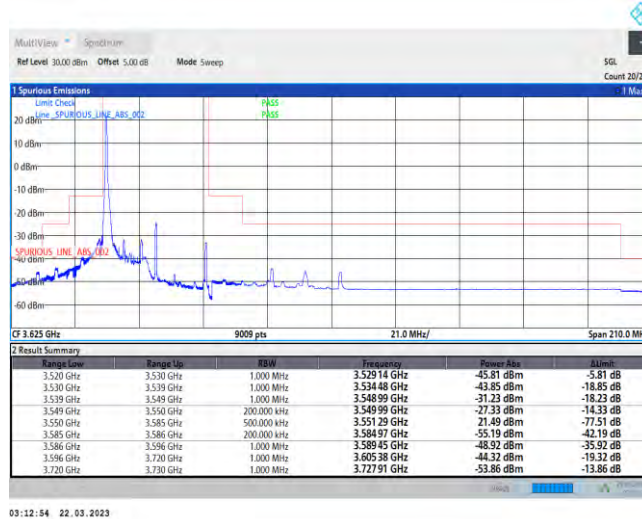


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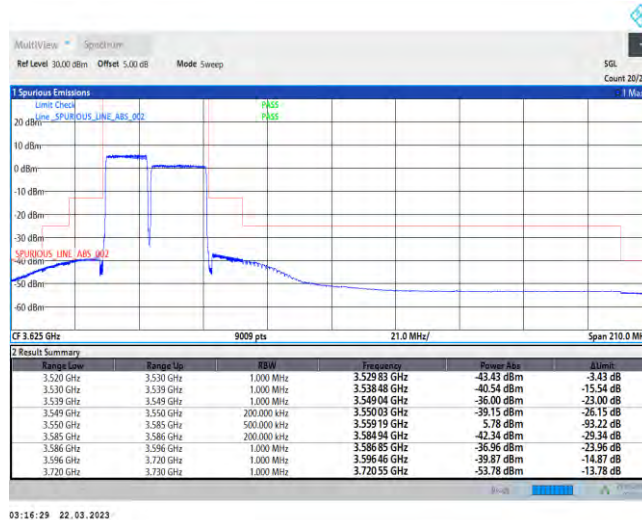


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48-48-15MHz-20MHz-QPSK-QPSK-55318-55489-1RB#0-0RB#0

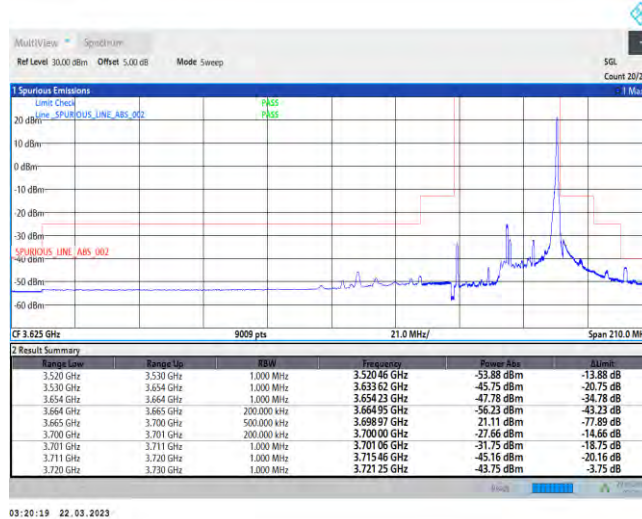


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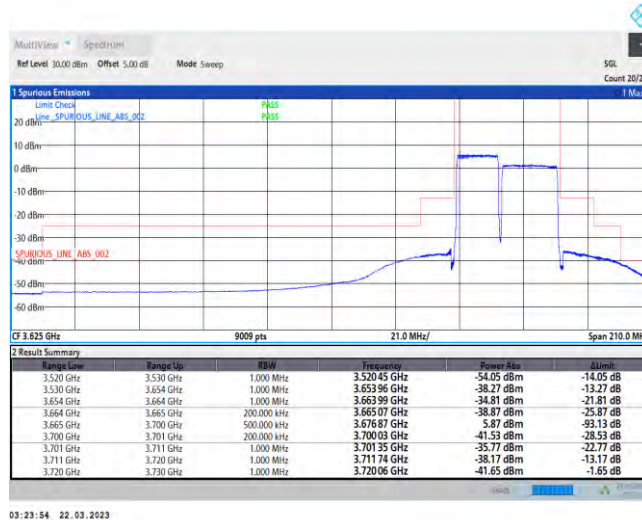


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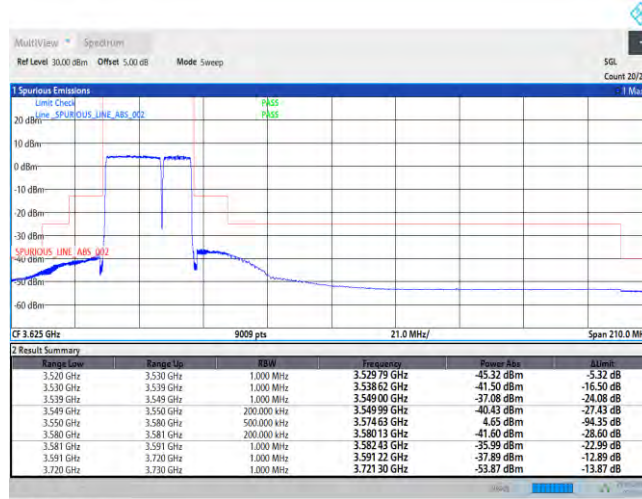


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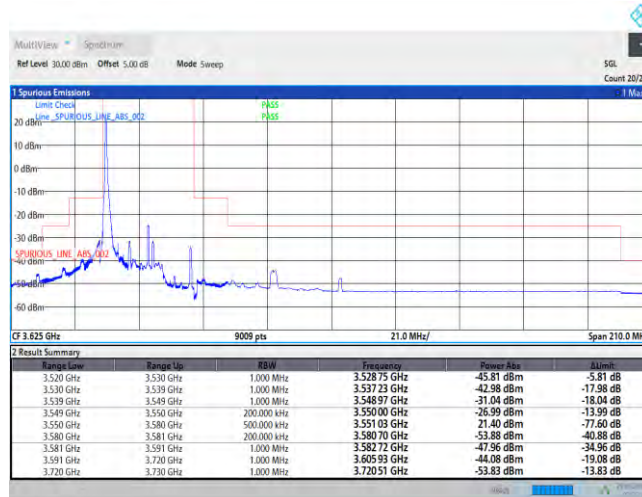
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48-48-20MHz-10MHz-QPSK-QPSK-55340-55484-100RB#0-50RB#0



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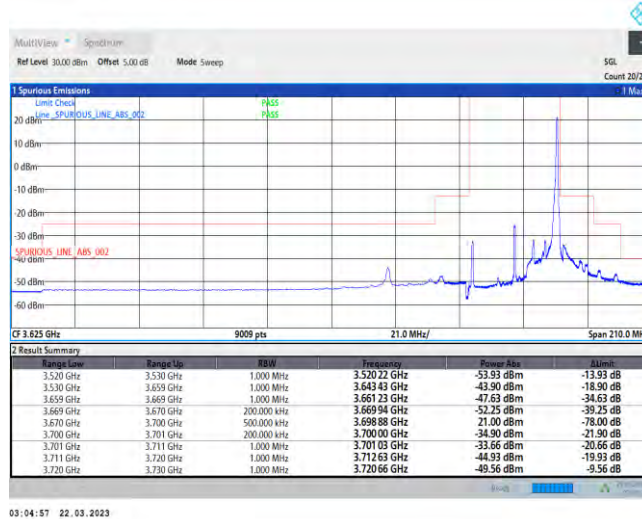


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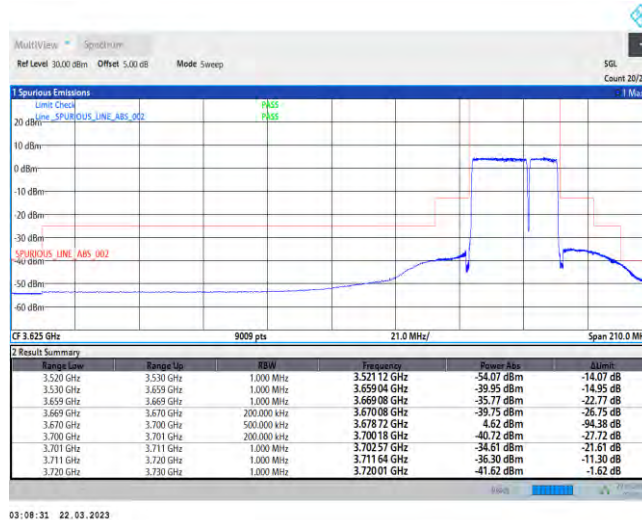


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48-48-20MHz-10MHz-QPSK-QPSK-56541-56685-0RB#0-1RB#49



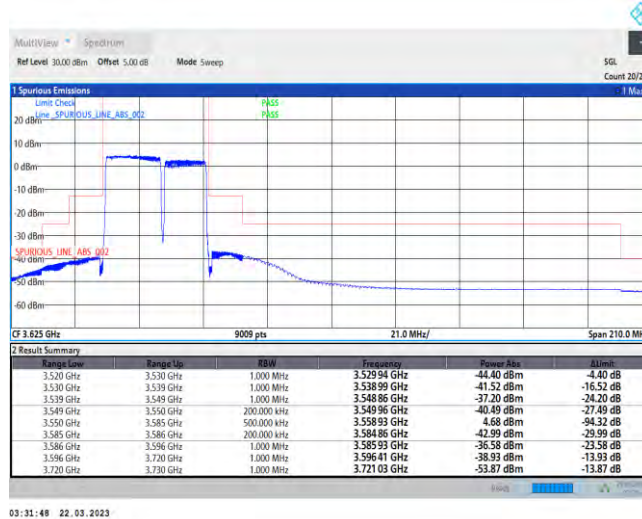
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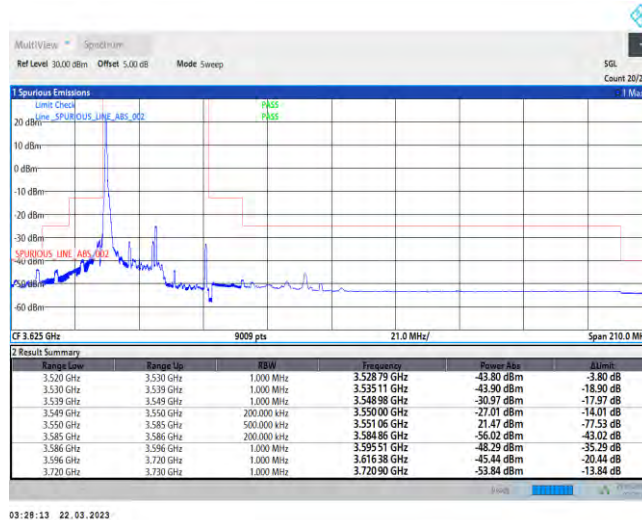
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48-48-20MHz-15MHz-QPSK-QPSK-55340-55511-100RB#0-75RB#0



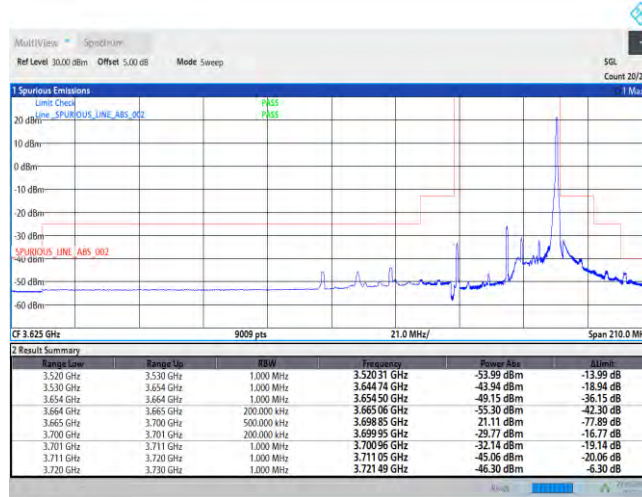
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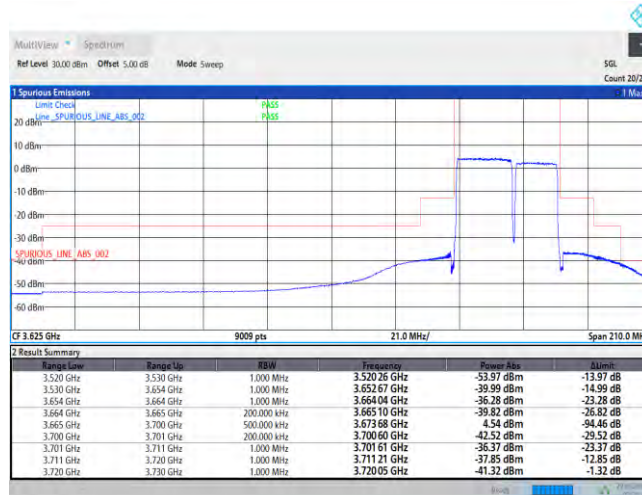
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48-48-20MHz-15MHz-QPSK-QPSK-56491-56662-0RB#0-1RB#74



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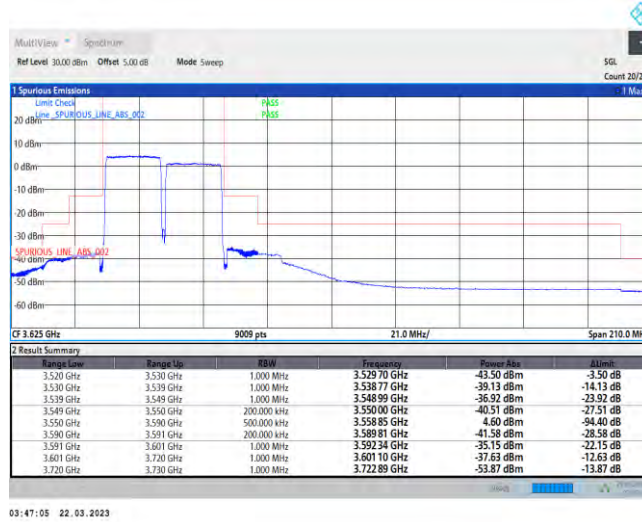


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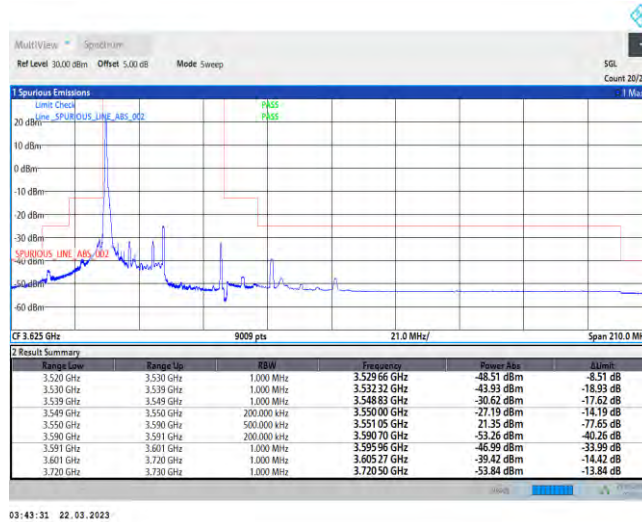


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48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-100RB#0-100RB#0

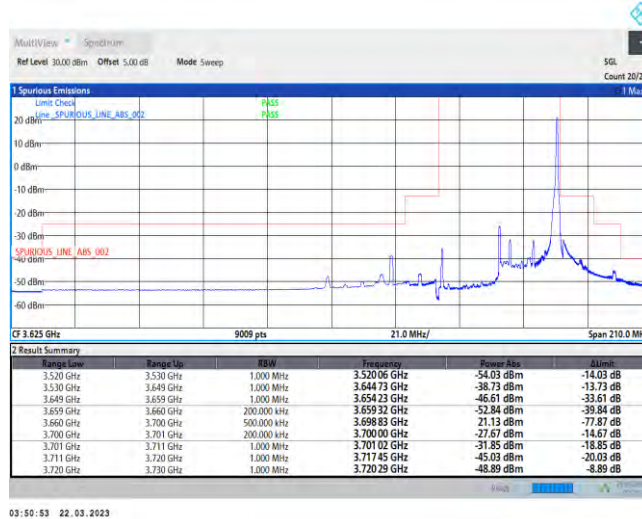


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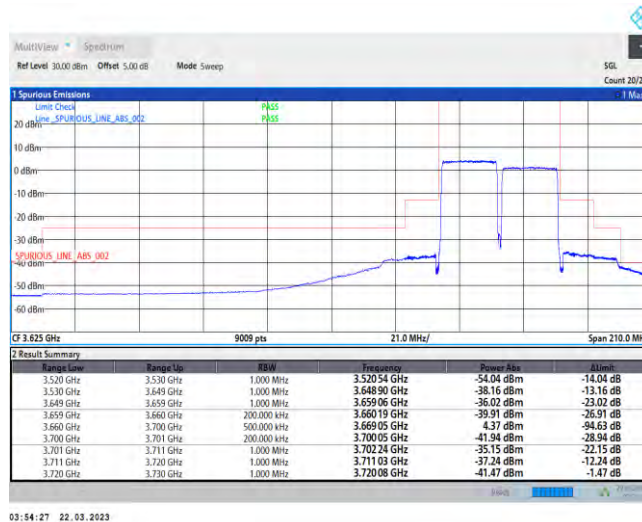


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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-0RB#0-1RB#99

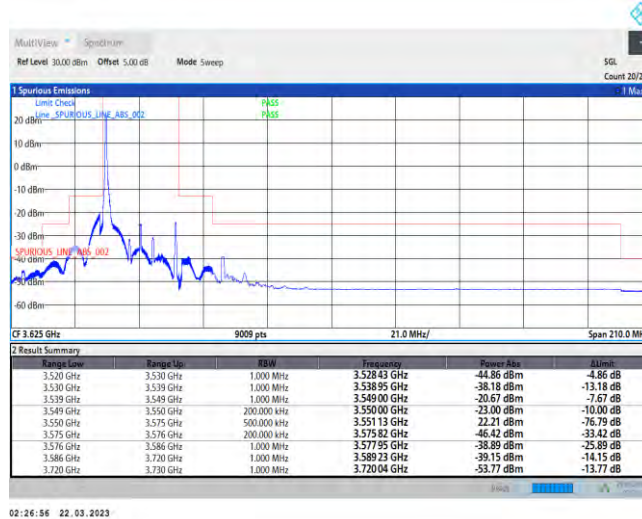


48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-100RB#0-100RB#0



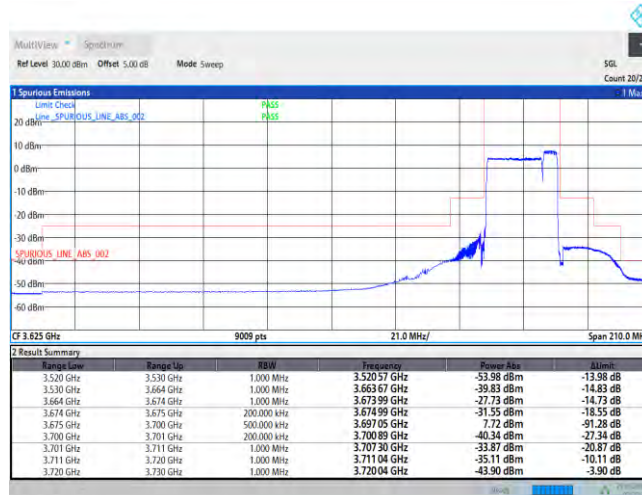
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48-48-20MHz-5MHz-QPSK-QPSK-55340-55457-1RB#0-0RB#0



02:26:56 22.03.2023

48-48-20MHz-5MHz-QPSK-QPSK-56590-56707-100RB#0-25RB#0

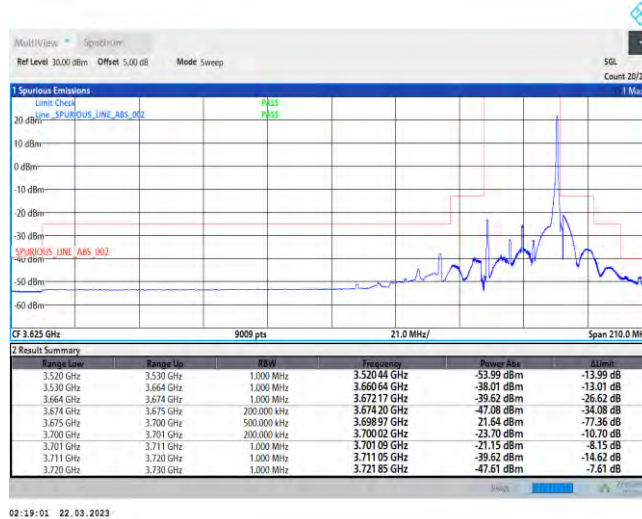


02:37:54 22.03.2023

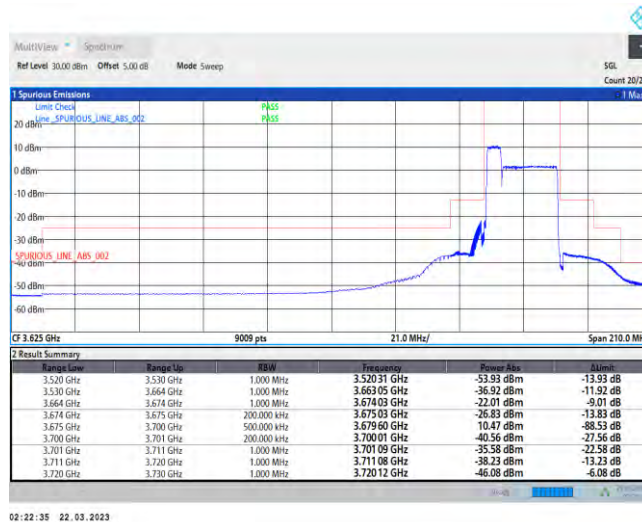


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48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-0RB#0-1RB#99



48-48-5MHz-20MHz-QPSK-QPSK-56523-56640-25RB#0-100RB#0



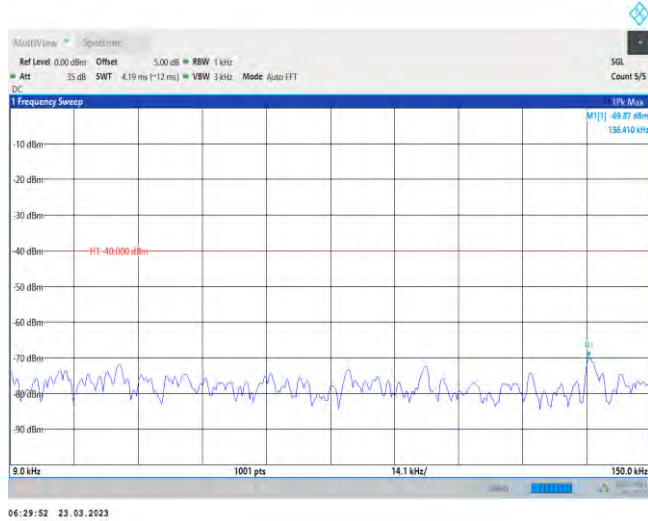
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

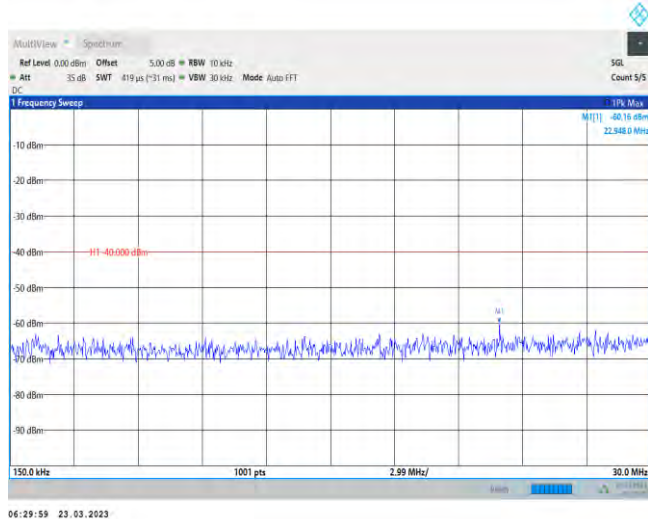
Conducted Spurious Emission

Test Graphs

48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-0.009~0.15MHz

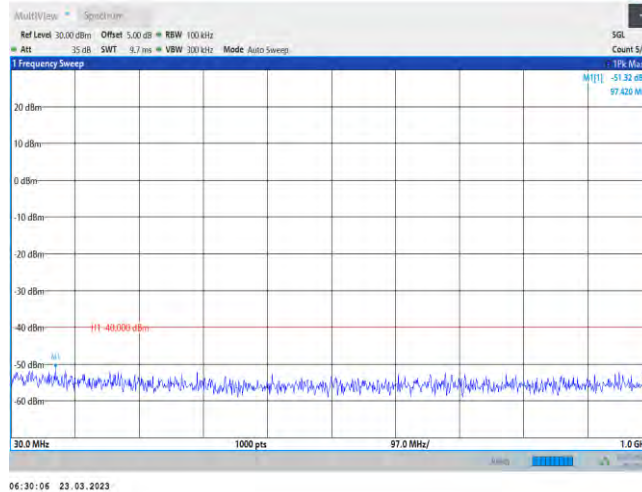


48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-0.15~30MHz



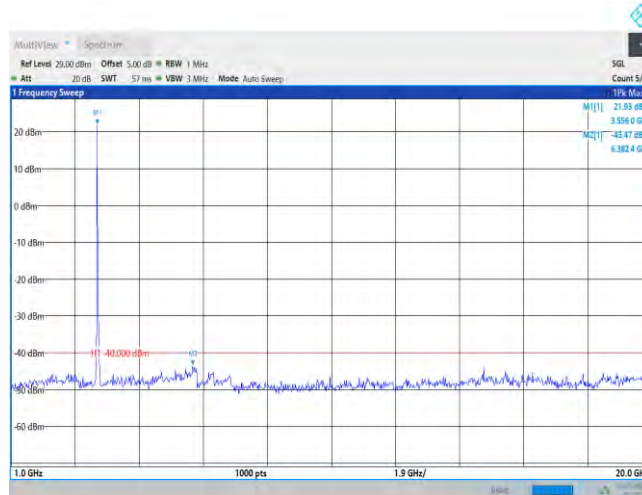
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48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-30~1000MHz



06:30:06 23.03.2023

48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-1000~20000MHz

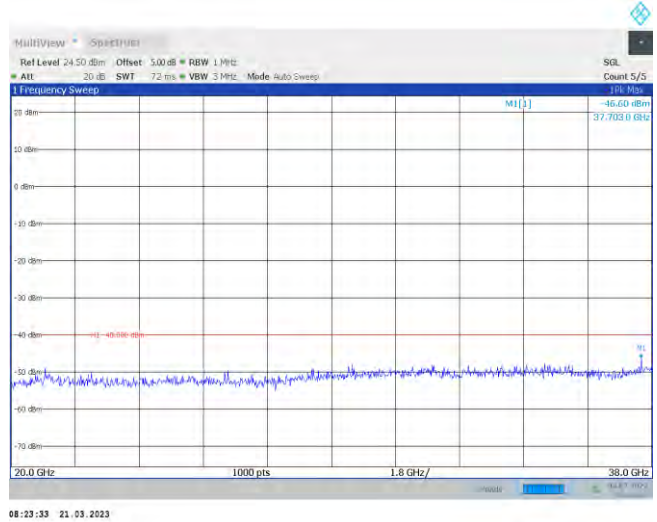


06:30:14 23.03.2023



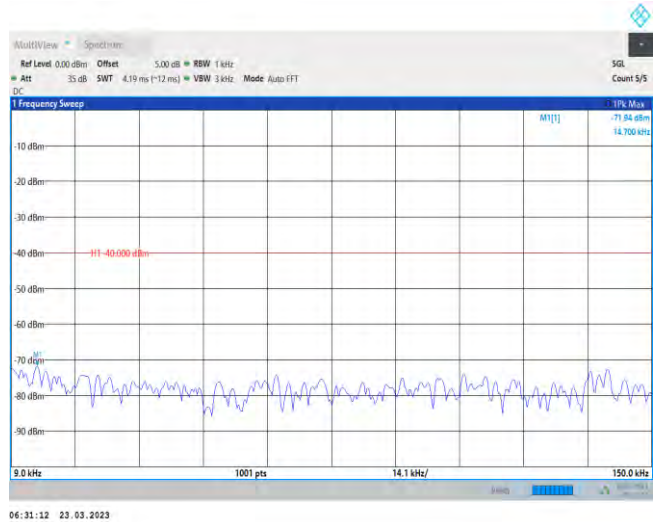
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48-48-20MHz-20MHz-QPSK-QPSK-55340-55538-1RB#0-0RB#0-20000~38000MHz



08:23:33 21. 03. 2023

48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-0.009~0.15MHz

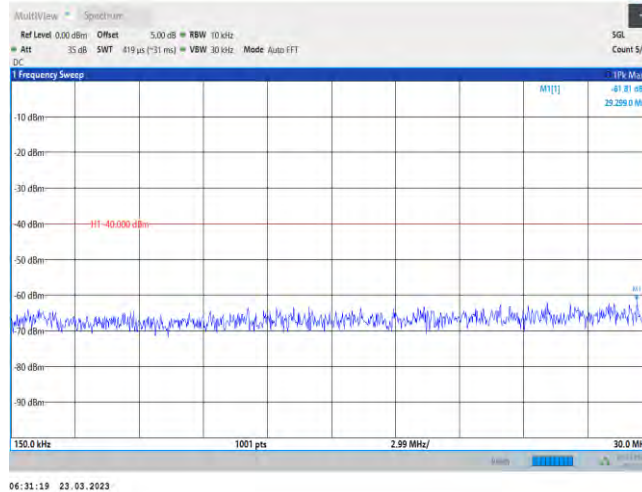


06:31:12 23. 03. 2023



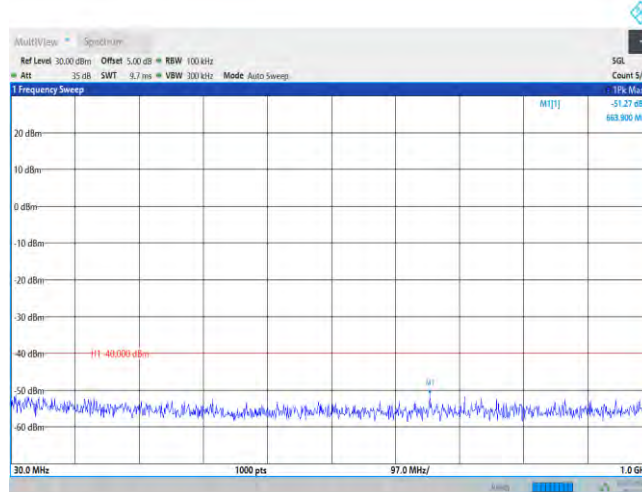
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48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-0.15~30MHz



06:31:19 23.03.2023

48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-30~1000MHz

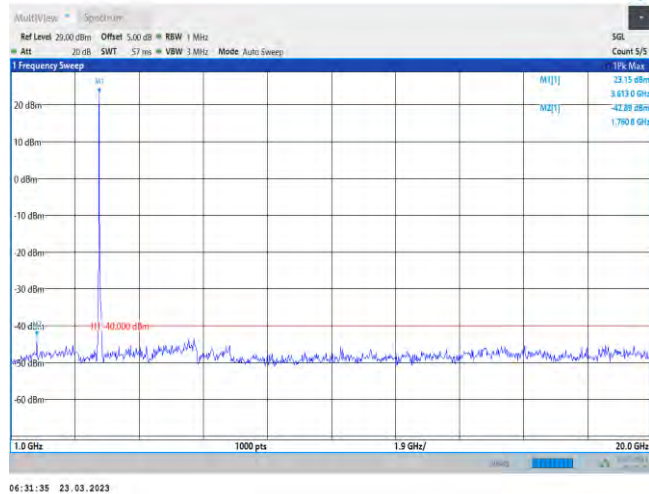


06:31:27 23.03.2023



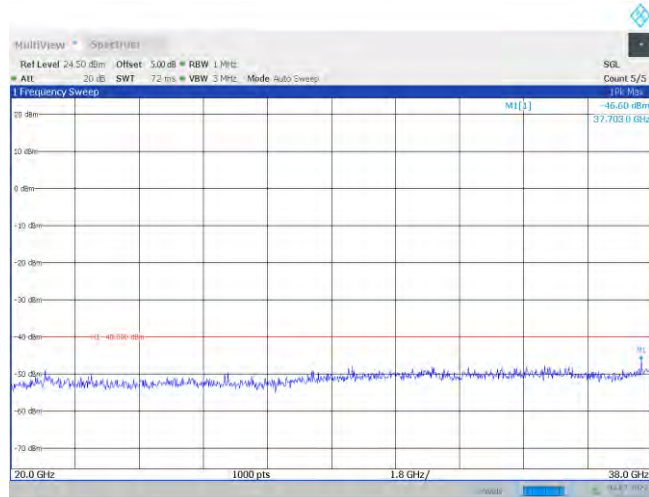
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48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-1000~20000MHz



06:31:35 23.03.2023

48-48-20MHz-20MHz-QPSK-QPSK-55891-56089-1RB#0-0RB#0-20000~38000MHz

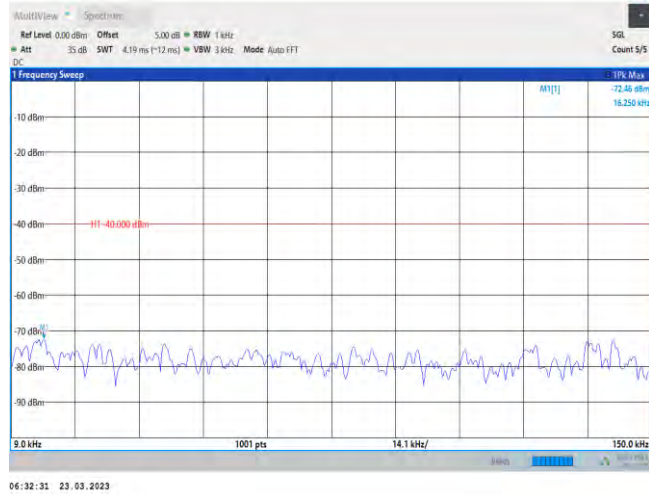


08:23:33 21.03.2023

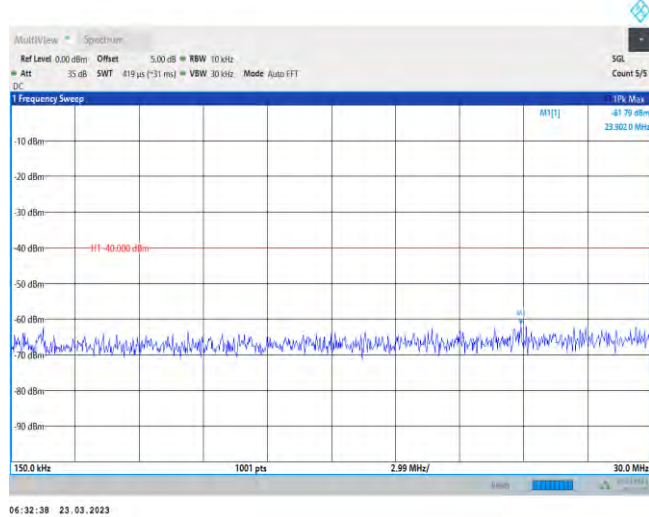


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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-0.009~0.15MHz

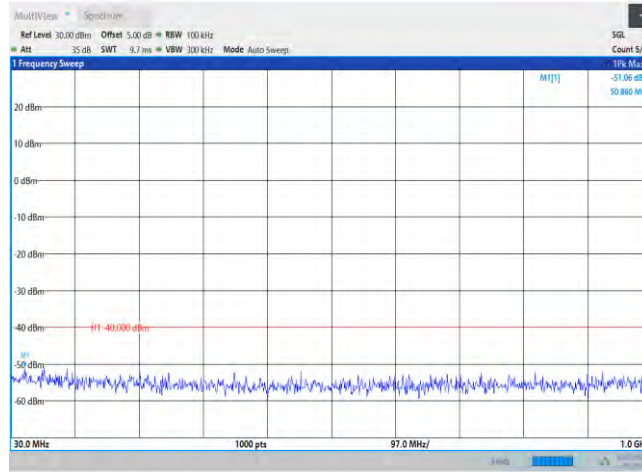


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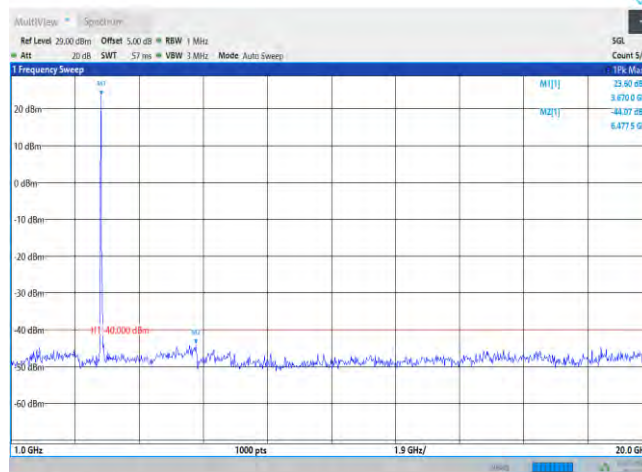


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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-30~1000MHz



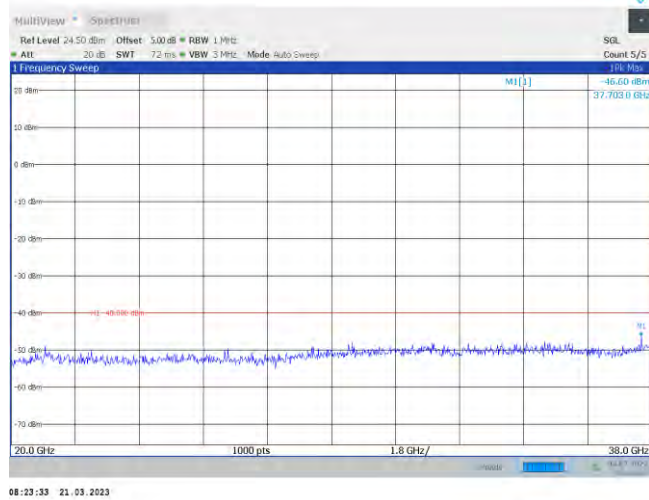
48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-1000~20000MHz



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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-1RB#0-0RB#0-20000~38000MHz



08:23:33 21.03.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band48CA 3550-3700_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7428.625	38.78	-42.90	36.48	-62.90	-40.00	22.90	245	92	Horizontal
2	8134.725	34.73	-41.62	37.06	-65.09	-40.00	25.09	136	301	Horizontal
3	9126.6	31.85	-40.29	38.29	-65.41	-40.00	25.41	256	6	Horizontal
4	11201.2	26.96	-36.61	39.11	-65.80	-40.00	25.80	144	227	Horizontal
5	12816.95	25.70	-36.66	39.65	-66.58	-40.00	26.58	185	316	Horizontal
6	15077.275	23.07	-34.47	39.12	-67.54	-40.00	27.54	196	92	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6931.25	48.28	-43.62	36.00	-54.60	-40.00	14.60	248	4	Vertical
2	7187.7	39.74	-43.62	36.57	-62.57	-40.00	22.57	184	318	Vertical
3	8401.525	37.08	-41.38	37.33	-62.22	-40.00	22.22	166	123	Vertical
4	9494.6	33.54	-39.96	38.47	-63.21	-40.00	23.21	291	197	Vertical
5	11145.425	26.94	-37.23	39.10	-66.45	-40.00	26.45	154	357	Vertical
6	12851.45	25.74	-36.75	39.68	-66.59	-40.00	26.59	177	272	Vertical



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Test Band = LTE Band48CA 3550-3700_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7619.525	37.82	-42.78	36.43	-63.79	-40.00	23.79	142	168	Horizontal
2	8349.2	35.13	-41.62	37.27	-64.49	-40.00	24.49	211	138	Horizontal
3	8605.075	34.61	-40.91	37.76	-63.80	-40.00	23.80	230	0	Horizontal
4	9472.75	33.68	-39.95	38.47	-63.06	-40.00	23.06	302	240	Horizontal
5	10697.5	26.97	-37.50	39.14	-66.66	-40.00	26.66	145	0	Horizontal
6	12835.925	25.69	-36.71	39.67	-66.61	-40.00	26.61	188	32	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7181.375	39.02	-43.62	36.55	-63.31	-40.00	23.31	111	184	Vertical
2	8137.025	34.20	-41.64	37.06	-65.64	-40.00	25.64	145	122	Vertical
3	8950.075	34.64	-40.89	38.17	-63.34	-40.00	23.34	163	79	Vertical
4	10376.075	28.26	-38.78	38.85	-66.93	-40.00	26.93	291	357	Vertical
5	11451.325	25.44	-37.00	39.05	-67.76	-40.00	27.76	187	0	Vertical
6	13846.775	25.00	-35.93	40.00	-66.19	-40.00	26.19	140	122	Vertical



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Test Band = LTE Band48CA 3550-3700_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7441.275	38.50	-42.95	36.47	-63.24	-40.00	23.24	214	214	Horizontal
2	8595.3	34.44	-40.93	37.74	-64.01	-40.00	24.01	133	214	Horizontal
3	9417.55	33.50	-39.93	38.49	-63.20	-40.00	23.20	259	109	Horizontal
4	11145.425	27.34	-37.23	39.10	-66.05	-40.00	26.05	148	140	Horizontal
5	12811.2	25.99	-36.65	39.64	-66.28	-40.00	26.28	185	80	Horizontal
6	14500.55	23.03	-34.24	40.01	-66.46	-40.00	26.46	174	125	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	7416.55	38.23	-42.85	36.48	-63.40	-40.00	23.40	247	212	Vertical
2	7787.425	37.87	-42.63	36.76	-63.26	-40.00	23.26	136	331	Vertical
3	8946.05	34.59	-40.89	38.17	-63.39	-40.00	23.39	261	8	Vertical
4	9993.7	29.67	-39.37	38.48	-66.48	-40.00	26.48	145	318	Vertical
5	11435.8	26.02	-37.15	39.07	-67.32	-40.00	27.32	185	256	Vertical
6	14335.525	23.62	-35.58	40.13	-67.09	-40.00	27.09	192	59	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	VH	NT	0.10	0.000146	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	VL	NT	0.80	0.001171	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	VN	NT	0.50	0.000732	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	50	1.40	0.002050	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	40	0.80	0.001171	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	30	-1.20	-0.001757	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	20	-1.50	-0.002196	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	10	1.90	0.002782	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	0	-1.50	-0.002196	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	-10	1.50	0.002196	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	-20	1.30	0.001903	PASS
48-48	20MHz-20MHz	QPSK -QPSK	55891-56089	100RB#0-100RB#0	NV	-30	1.20	0.001757	PASS

---End of Attachment---



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