

Report No.: SEWM2311000473RG05

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Appendix B.52

LTE CA_48C(3550-3700)



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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt6

and	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/10MHz)	EIRP (dBm/10MHz)	Limit (dBm/10MHz)	Verdict
48-48	10MHz-20MHz	QPSK-QPSK	55295-55439	1RB#0-0RB#0	21.42	17.13	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55295-55439	50RB#0-100RB#0	19.72	15.43	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55896-56040	1RB#0-0RB#0	21.23	16.94	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	55896-56040	50RB#0-100RB#0	19.52	15.23	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	56496-56640	1RB#0-0RB#0	21.09	16.8	23	PASS
48-48	10MHz-20MHz	QPSK-QPSK	56496-56640	50RB#0-100RB#0	19.45	15.16	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55295-55439	1RB#0-0RB#0	20.48	16.19	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55295-55439	50RB#0-100RB#0	18.72	14.43	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55896-56040	1RB#0-0RB#0	20.26	15.97	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	55896-56040	50RB#0-100RB#0	18.57	14.28	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	56496-56640	1RB#0-0RB#0	20.11	15.82	23	PASS
48-48	10MHz-20MHz	16QAM-16QAM	56496-56640	50RB#0-100RB#0	18.6	14.31	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55295-55439	1RB#0-0RB#0	19.1	14.81	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55295-55439	50RB#0-100RB#0	18.88	14.59	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55896-56040	1RB#0-0RB#0	18.97	14.68	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	55896-56040	50RB#0-100RB#0	18.58	14.29	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	56496-56640	1RB#0-0RB#0	18.76	14.47	23	PASS
48-48	10MHz-20MHz	64QAM-64QAM	56496-56640	50RB#0-100RB#0	18.6	14.31	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55295-55439	1RB#0-0RB#0	16.43	12.14	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55295-55439	50RB#0-100RB#0	16.85	12.56	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55896-56040	1RB#0-0RB#0	16.06	11.77	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	55896-56040	50RB#0-100RB#0	16.57	12.28	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	56496-56640	1RB#0-0RB#0	16.12	11.83	23	PASS
48-48	10MHz-20MHz	256QAM-256QAM	56496-56640	50RB#0-100RB#0	16.55	12.26	23	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55318-55489	1RB#0-0RB#0	21.53	17.24	23	PASS
48-48	15MHz-20MHz	QPSK-QPSK	55318-55489	75RB#0-100RB#0	19.7	15.41	23	PASS



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Table with 9 columns: Test ID, Frequency, Modulation, Standard, Reference, Value 1, Value 2, Pass/Fail, Result. Contains 40 rows of test data.



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48-48	5MHz-20MHz	16QAM-16QAM	56523-56640	1RB#0-0RB#0	20.29	16	23	PASS
48-48	5MHz-20MHz	16QAM-16QAM	56523-56640	25RB#0-100RB#0	18.67	14.38	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55273-55390	1RB#0-0RB#0	19.26	14.97	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55273-55390	25RB#0-100RB#0	18.83	14.54	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55898-56015	1RB#0-0RB#0	18.86	14.57	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	55898-56015	25RB#0-100RB#0	18.6	14.31	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	56523-56640	1RB#0-0RB#0	18.99	14.7	23	PASS
48-48	5MHz-20MHz	64QAM-64QAM	56523-56640	25RB#0-100RB#0	18.76	14.47	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55273-55390	1RB#0-0RB#0	16.42	12.13	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55273-55390	25RB#0-100RB#0	16.92	12.63	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55898-56015	1RB#0-0RB#0	15.99	11.7	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	55898-56015	25RB#0-100RB#0	16.63	12.34	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	56523-56640	1RB#0-0RB#0	16.16	11.87	23	PASS
48-48	5MHz-20MHz	256QAM-256QAM	56523-56640	25RB#0-100RB#0	16.8	12.51	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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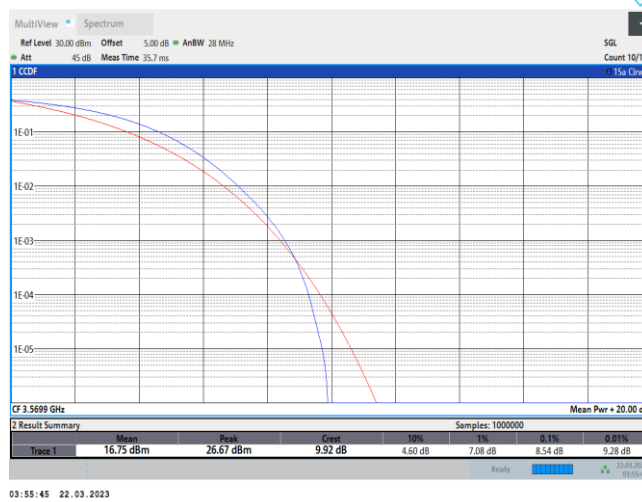
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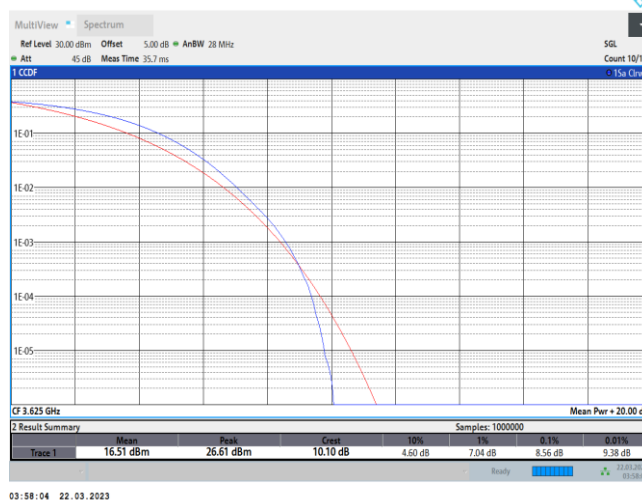
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Test Graphs

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



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

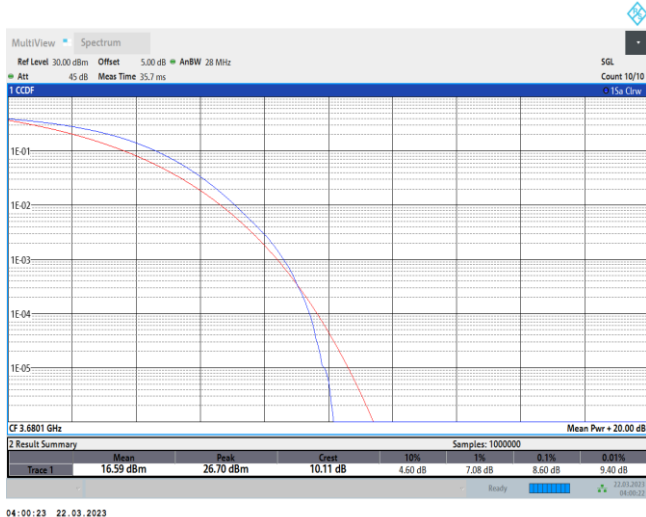


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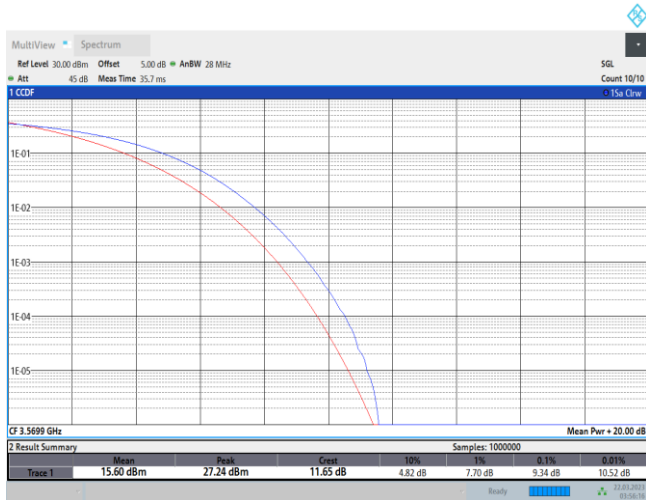
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48-48-20MHz-20MHz-QPSK-QPSK-56442-56640-100RB#0-100RB#0



04:00:23 22.03.2023

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



03:56:17 22.03.2023

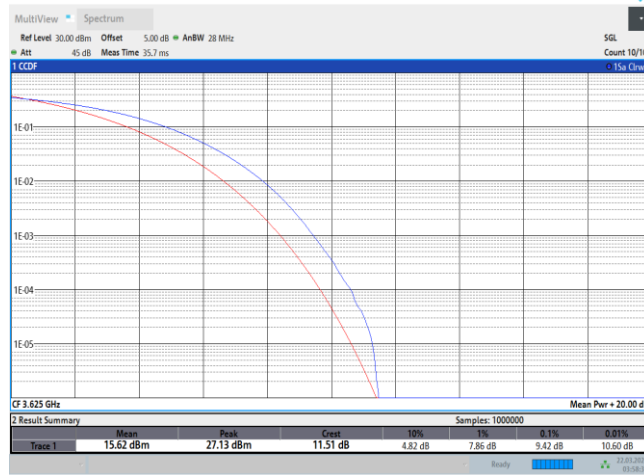


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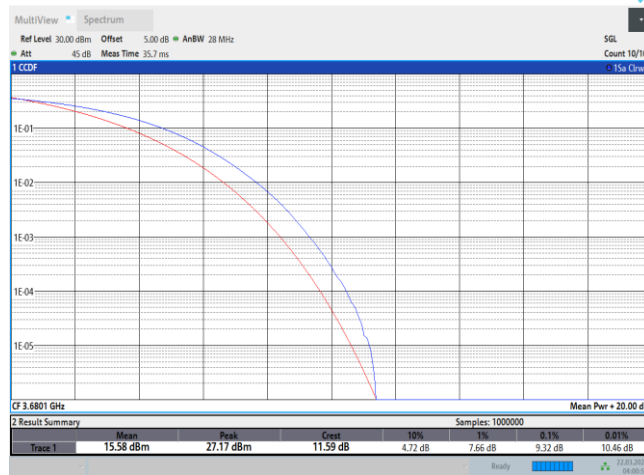
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48-48-20MHz-20MHz-16QAM-16QAM-55891-56089-100RB#0-100RB#0



03:58:35 22.03.2023

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



04:00:54 22.03.2023

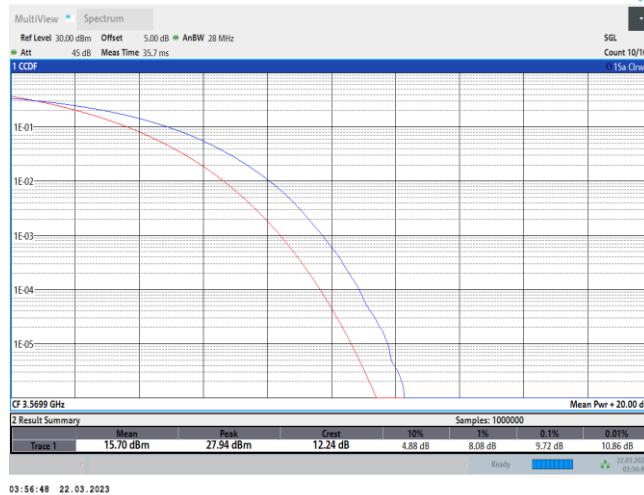


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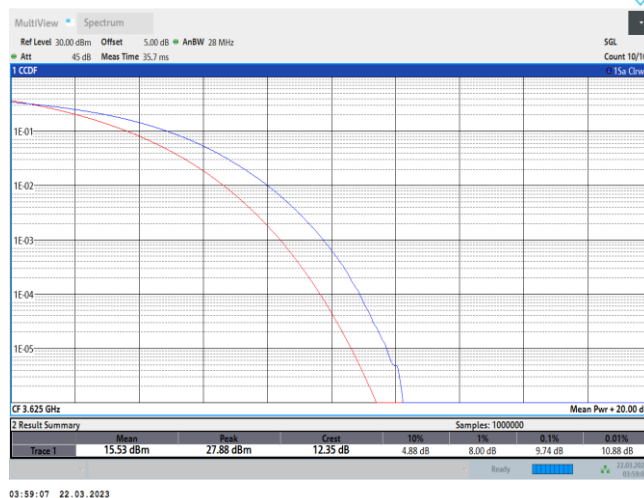
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48-48-20MHz-20MHz-64QAM-64QAM-55340-55538-100RB#0-100RB#0



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

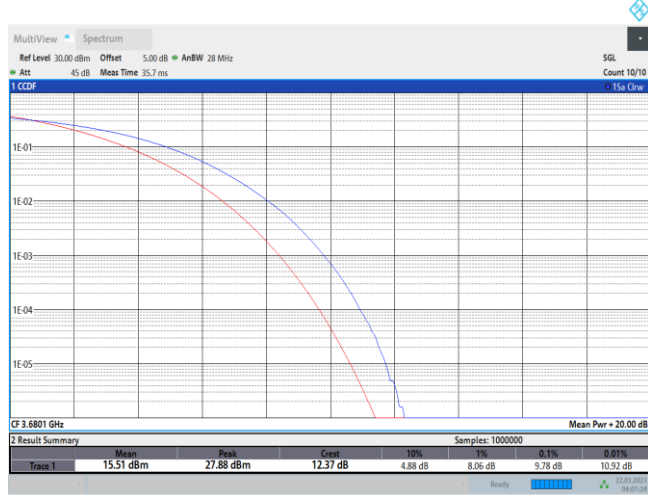


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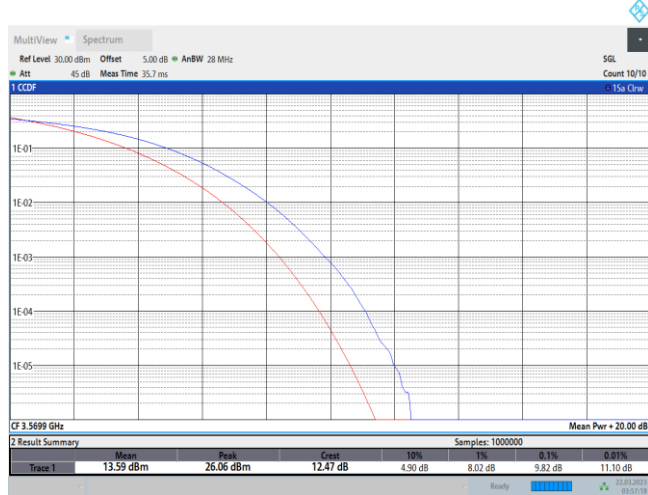
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48-48-20MHz-20MHz-64QAM-64QAM-56442-56640-100RB#0-100RB#0



04:01:25 22.03.2023

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



03:57:19 22.03.2023

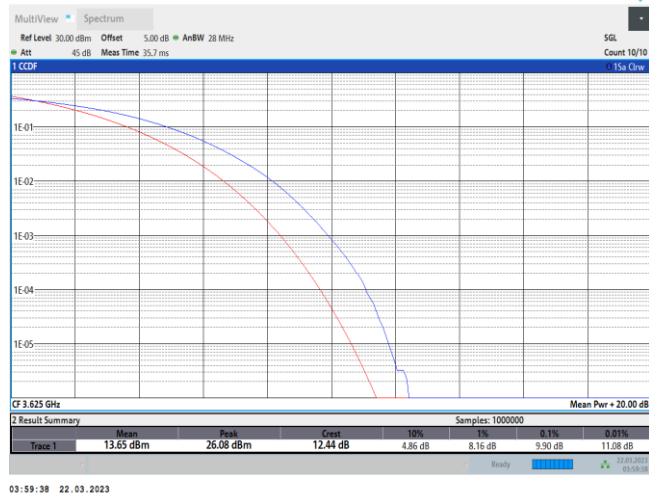


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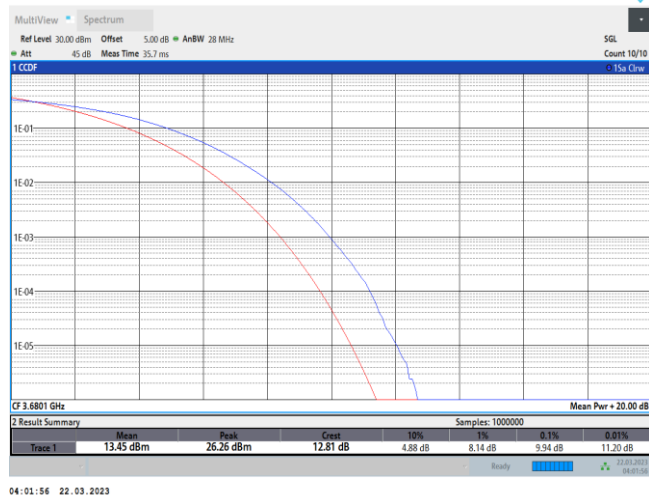
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48-48-20MHz-20MHz-256QAM-256QAM-55891-56089-100RB#0-100RB#0



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



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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



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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
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



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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
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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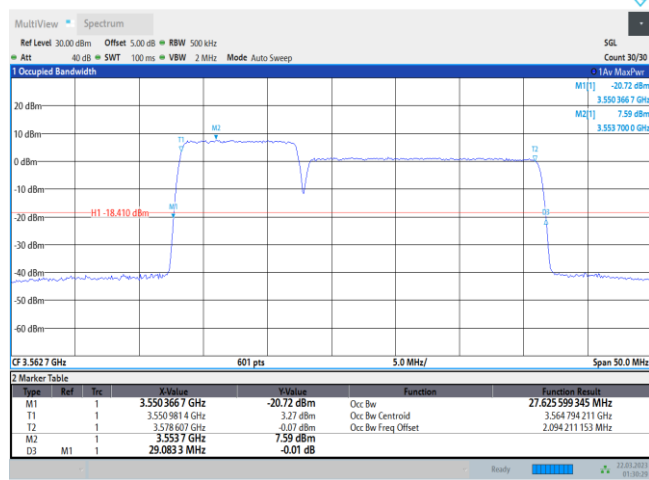
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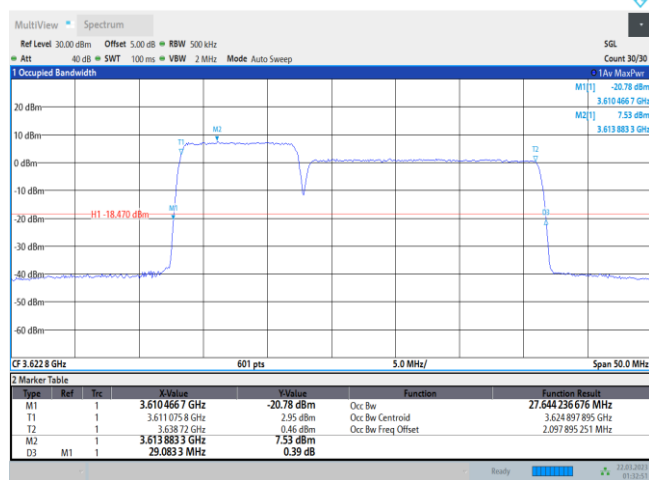
Test Graphs

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

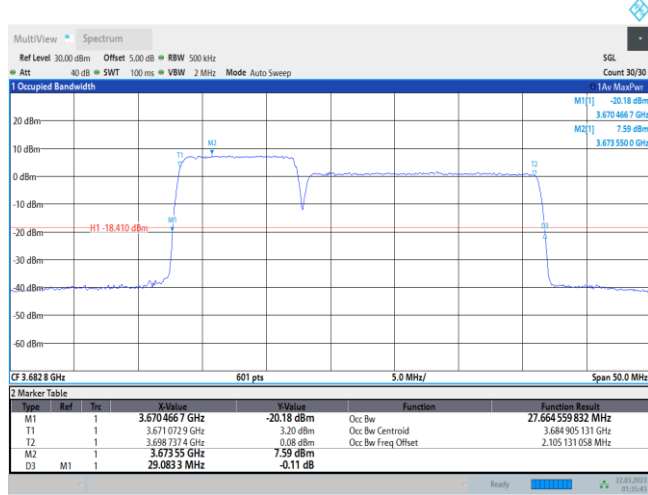


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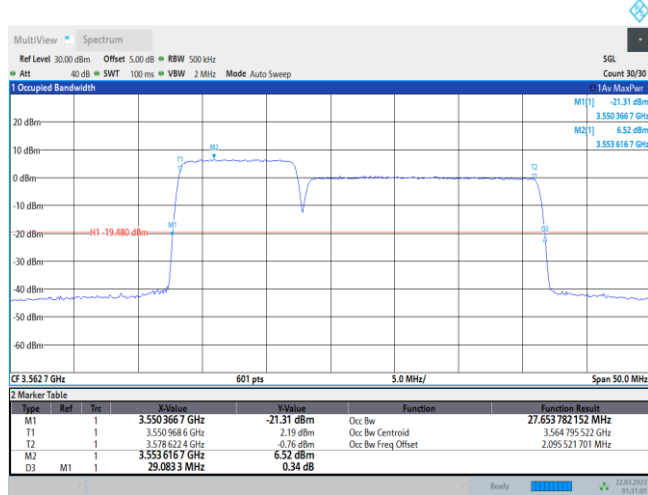
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48-48-10MHz-20MHz-QPSK-QPSK-56496-56640-50RB#0-100RB#0



01:35:43 22.03.2023

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



01:31:02 22.03.2023

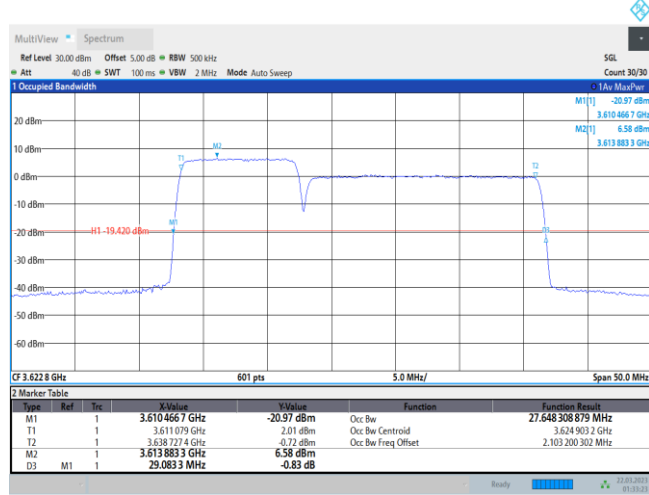


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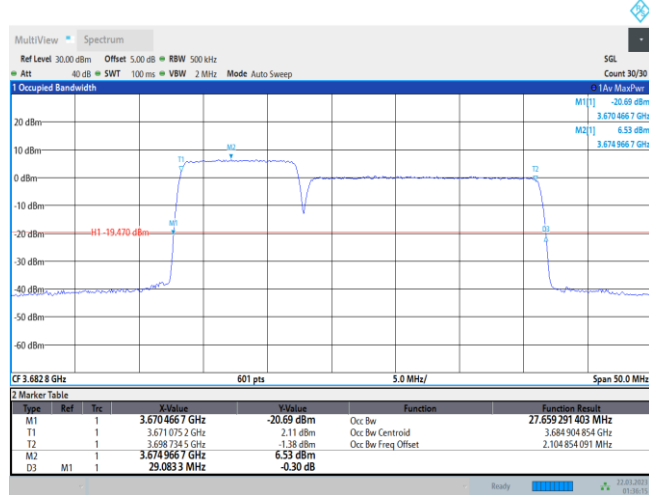
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48-48-10MHz-20MHz-16QAM-16QAM-55896-56040-50RB#0-100RB#0



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

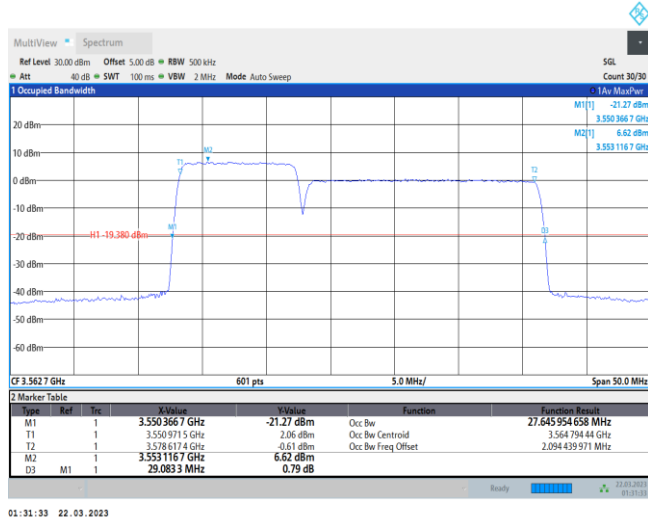


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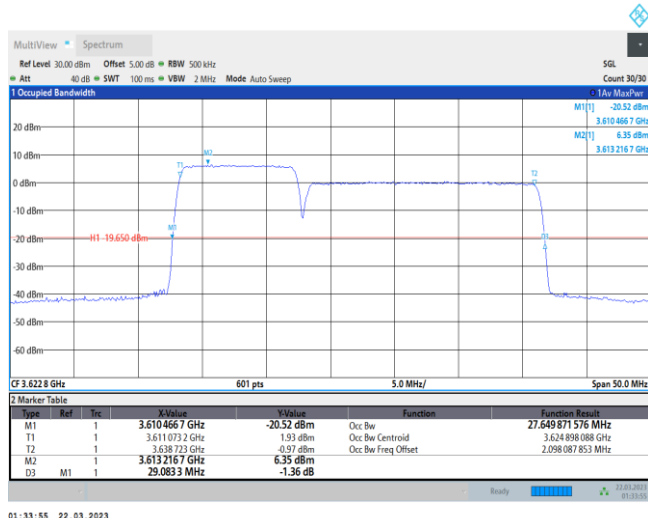
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48-48-10MHz-20MHz-64QAM-64QAM-55295-55439-50RB#0-100RB#0



01:31:33 22.03.2023

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



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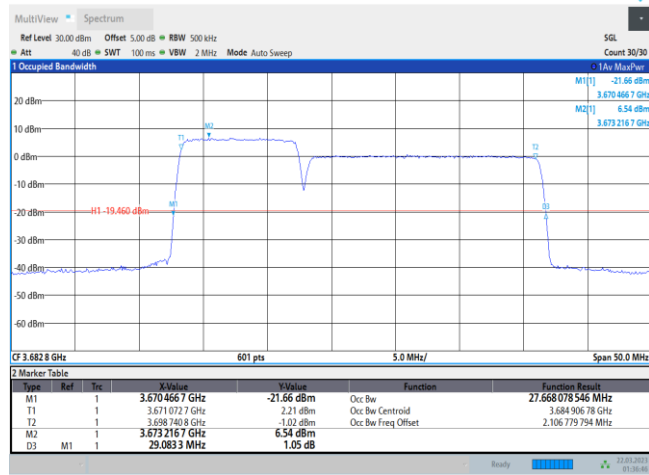


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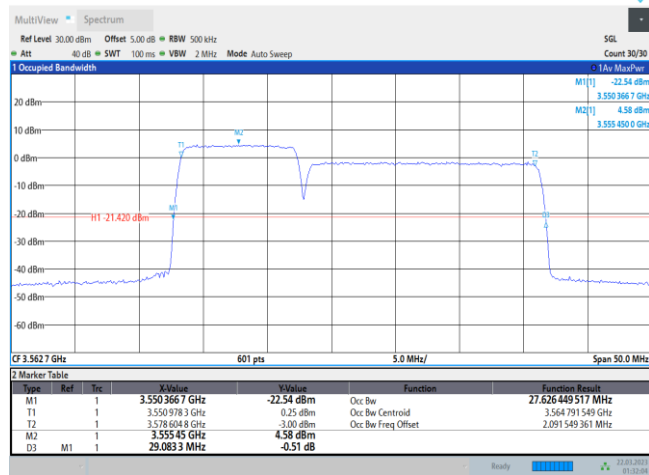
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48-48-10MHz-20MHz-64QAM-64QAM-56496-56640-50RB#0-100RB#0



01:36:47 22.03.2023

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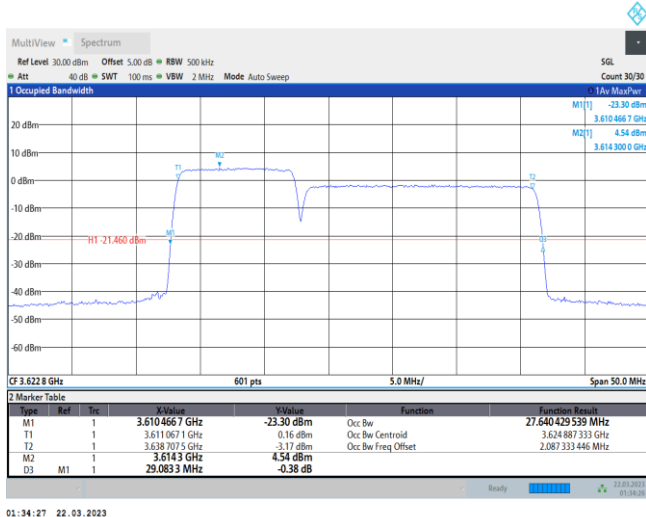


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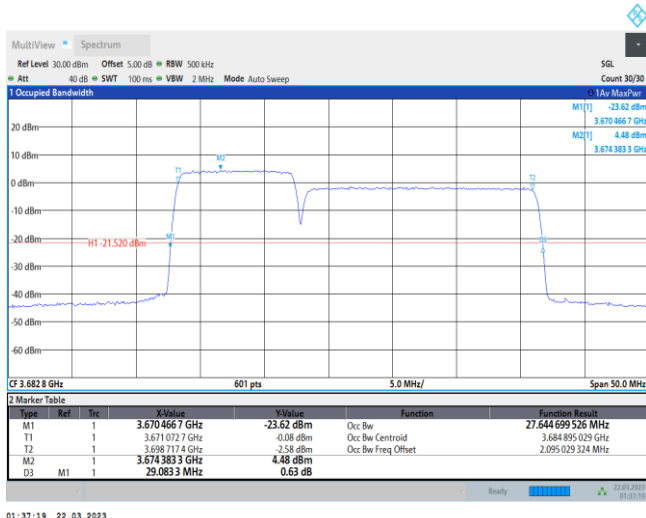
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48-48-10MHz-20MHz-256QAM-256QAM-55896-56040-50RB#0-100RB#0



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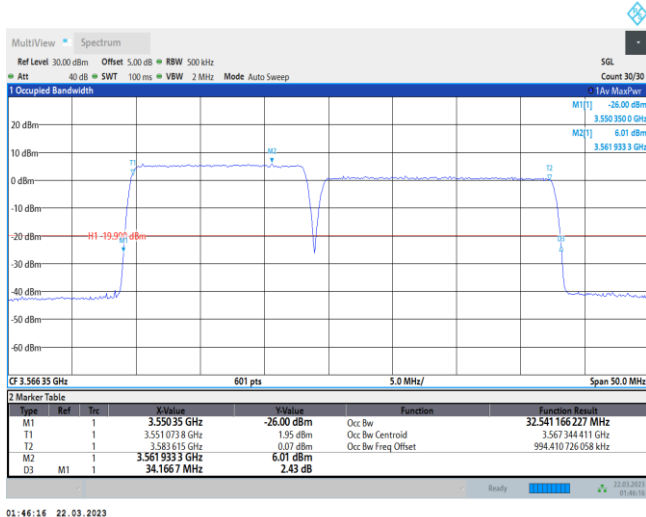


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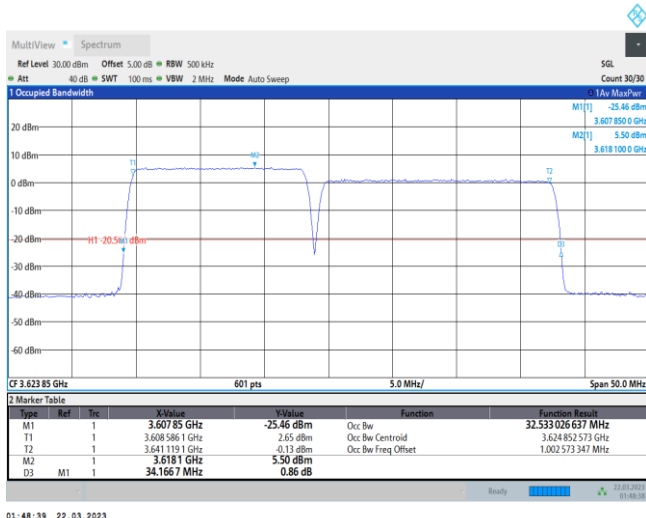
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48-48-15MHz-20MHz-QPSK-QPSK-55318-55489-75RB#0-100RB#0



01:46:16 22.03.2023

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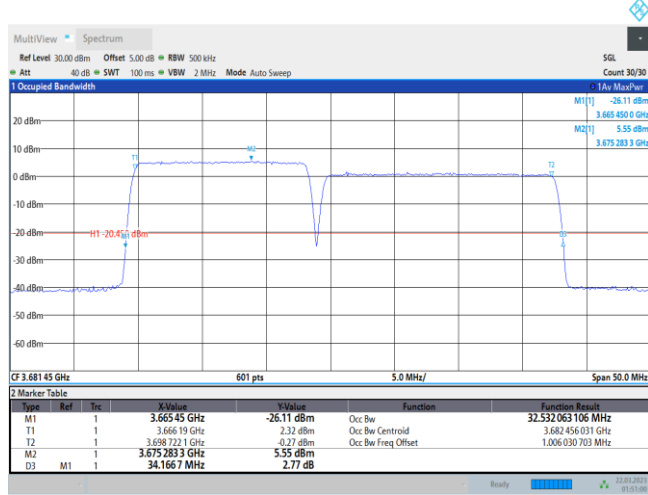


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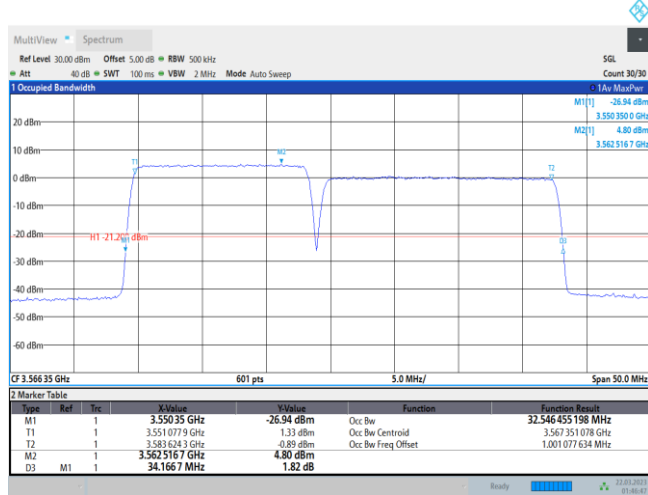
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48-48-15MHz-20MHz-QPSK-QPSK-56469-56640-75RB#0-100RB#0



01:51:01 22.03.2023

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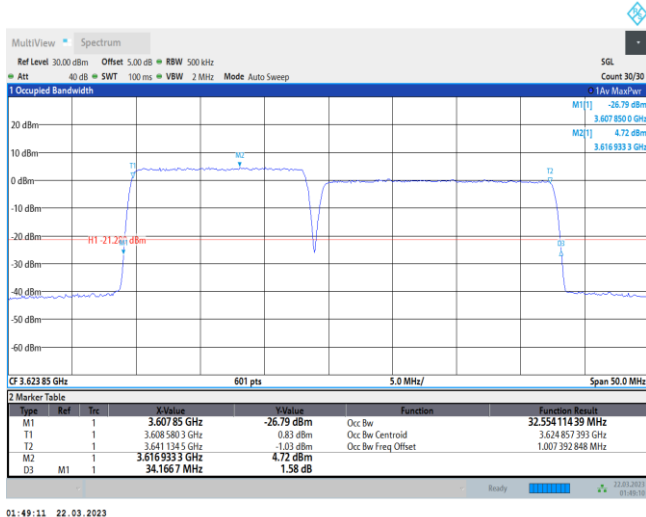


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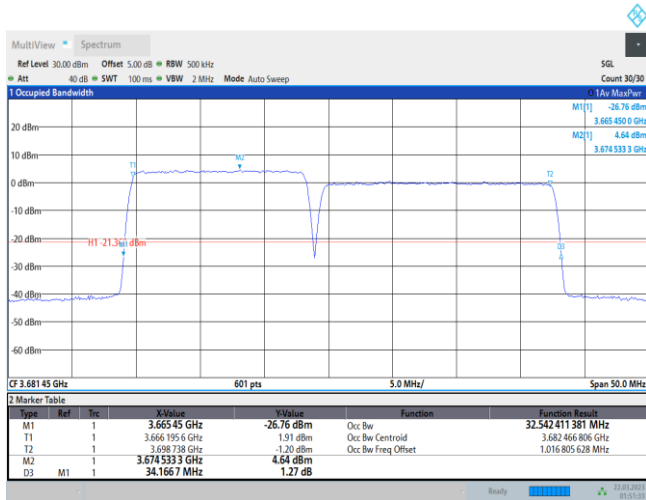
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01:51:33 22.03.2023



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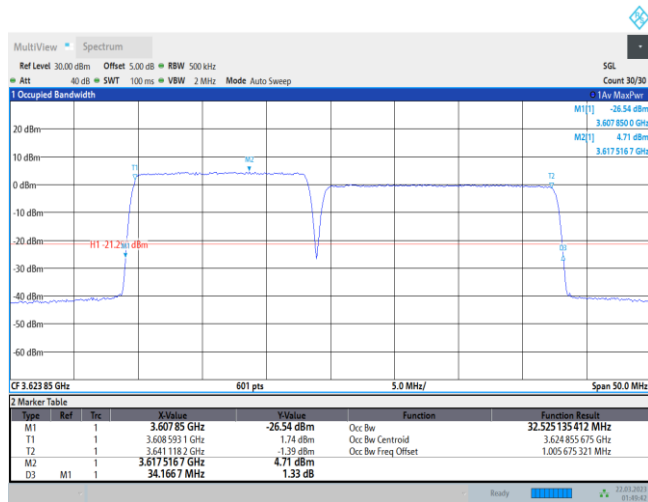
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01:47:20 22.03.2023

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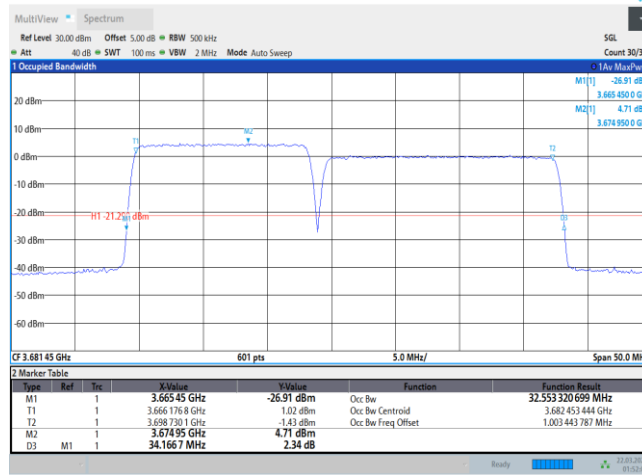


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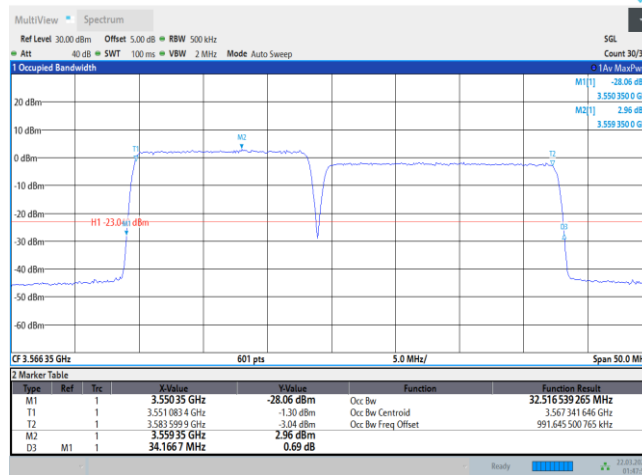
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01:52:05 22.03.2023

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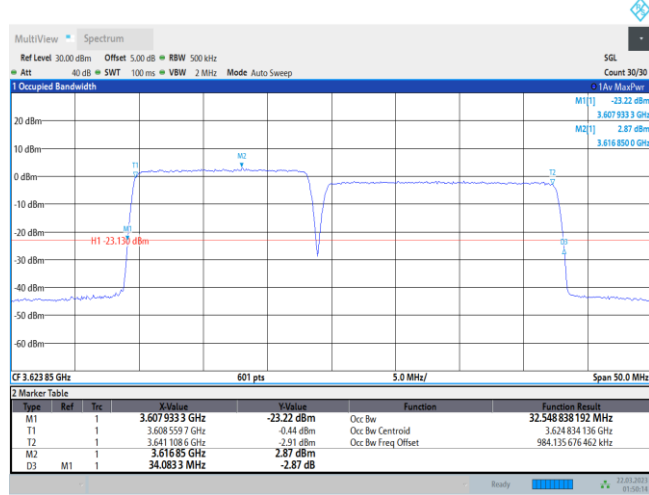


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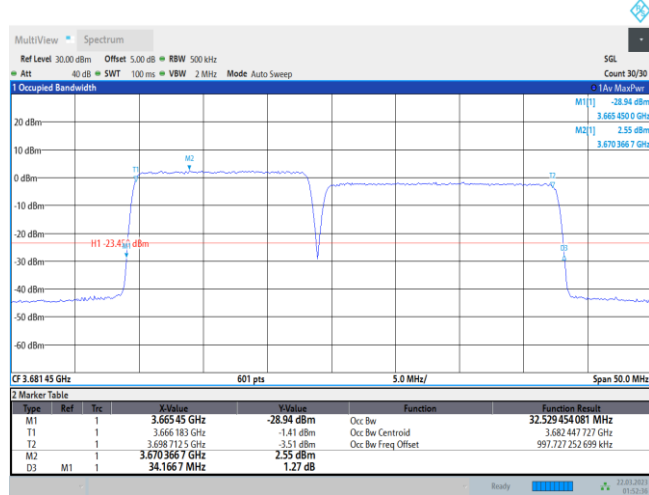
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01:50:14 22.03.2023

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01:52:37 22.03.2023



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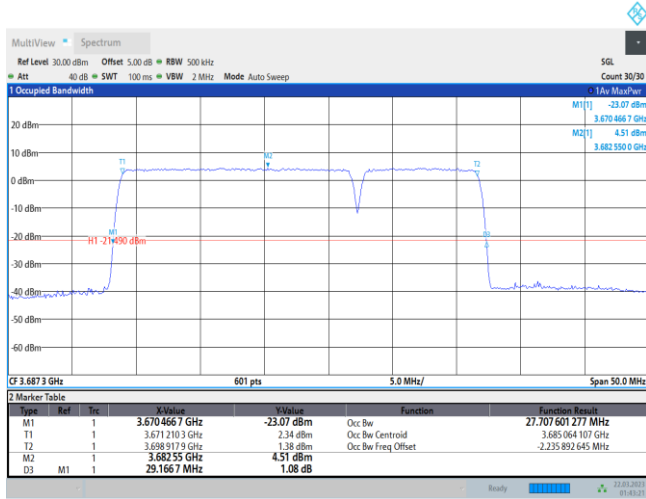


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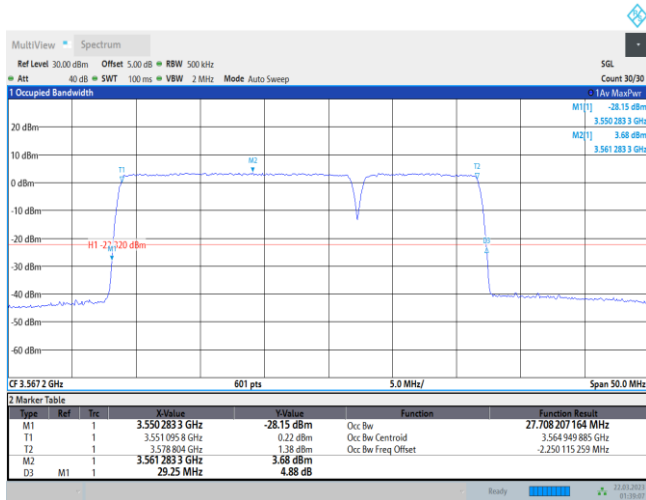
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48-48-20MHz-10MHz-QPSK-QPSK-56541-56685-100RB#0-50RB#0



01:43:22 22.03.2023

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



01:39:08 22.03.2023

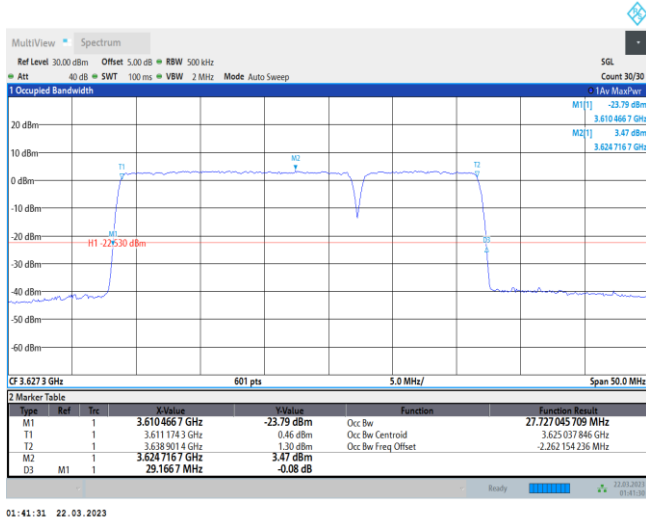


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48-48-20MHz-10MHz-16QAM-16QAM-55941-56085-100RB#0-50RB#0



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



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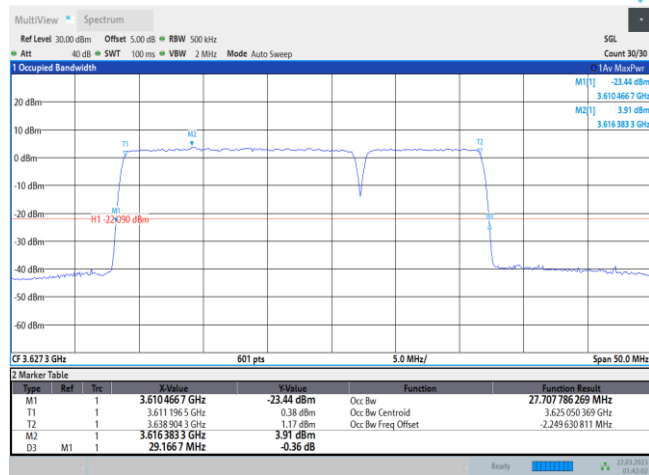
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48-48-20MHz-10MHz-64QAM-64QAM-55340-55484-100RB#0-50RB#0



01:39:40 22.03.2023

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



01:42:03 22.03.2023



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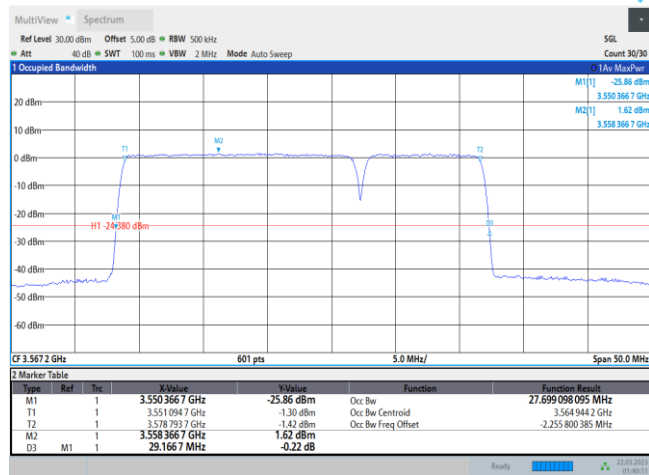
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48-48-20MHz-10MHz-64QAM-64QAM-56541-56685-100RB#0-50RB#0



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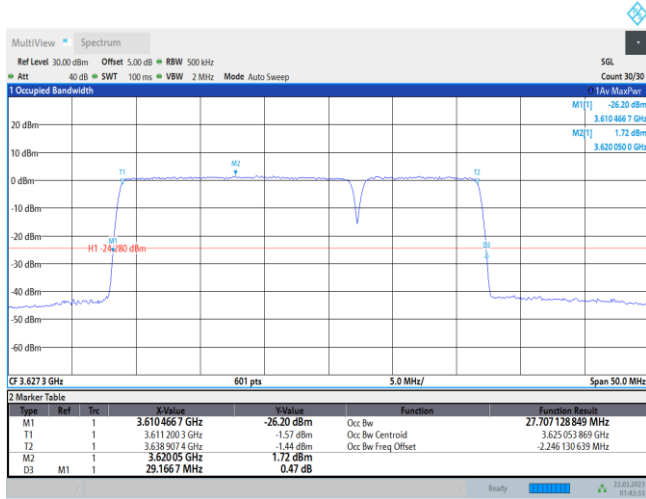
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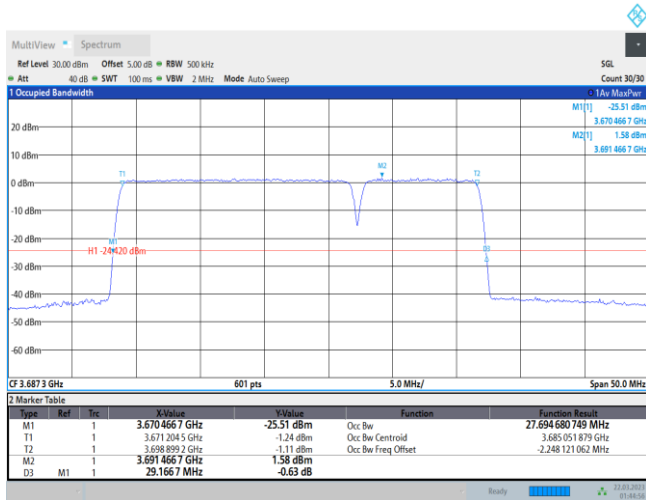
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48-48-20MHz-10MHz-256QAM-256QAM-55941-56085-100RB#0-50RB#0



01:42:34 22.03.2023

48-48-20MHz-10MHz-256QAM-256QAM-56541-56685-100RB#0-50RB#0



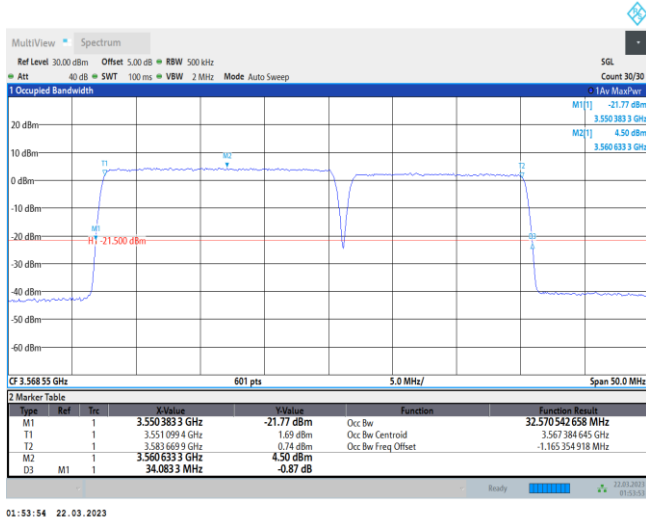
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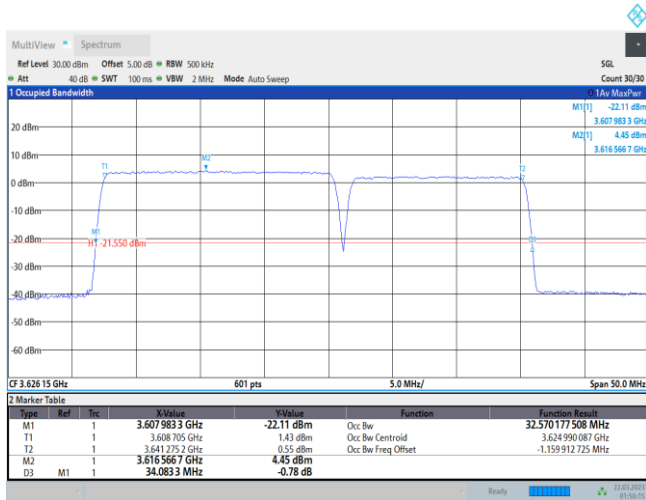
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48-48-20MHz-15MHz-QPSK-QPSK-55340-55511-100RB#0-75RB#0



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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