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Appendix B.24

LTE CA_66B



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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt7

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
66-66	10MHz-10MHz	QPSK-QPSK	132022-132121	1RB#0-0RB#0	21.71	21.73	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132022-132121	50RB#0-50RB#0	20.62	20.64	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132373-132472	1RB#0-0RB#0	21.91	21.93	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132373-132472	50RB#0-50RB#0	20.87	20.89	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132523-132622	1RB#0-0RB#0	21.93	21.95	30	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132523-132622	50RB#0-50RB#0	20.87	20.89	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132022-132121	1RB#0-0RB#0	21.55	21.57	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132022-132121	50RB#0-50RB#0	19.75	19.77	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132373-132472	1RB#0-0RB#0	21.7	21.72	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132373-132472	50RB#0-50RB#0	19.74	19.76	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132523-132622	1RB#0-0RB#0	21.66	21.68	30	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132523-132622	50RB#0-50RB#0	19.92	19.94	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132022-132121	1RB#0-0RB#0	20.66	20.68	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132022-132121	50RB#0-50RB#0	19.62	19.64	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132373-132472	1RB#0-0RB#0	20.76	20.78	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132373-132472	50RB#0-50RB#0	19.87	19.89	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132523-132622	1RB#0-0RB#0	20.73	20.75	30	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132523-132622	50RB#0-50RB#0	19.99	20.01	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132022-132121	1RB#0-0RB#0	17.59	17.61	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132022-132121	50RB#0-50RB#0	17.56	17.58	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132373-132472	1RB#0-0RB#0	17.6	17.62	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132373-132472	50RB#0-50RB#0	17.63	17.65	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132523-132622	1RB#0-0RB#0	17.58	17.6	30	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132523-132622	50RB#0-50RB#0	17.83	17.85	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132022-132094	1RB#0-0RB#0	21.73	21.75	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132022-132094	50RB#0-25RB#0	20.64	20.66	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132397-132469	1RB#0-0RB#0	21.75	21.77	30	PASS



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66-66	10MHz-5MHz	QPSK-QPSK	132397-132469	50RB#0-25RB#0	20.64	20.66	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132572-132644	1RB#0-0RB#0	21.77	21.79	30	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132572-132644	50RB#0-25RB#0	20.66	20.68	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132022-132094	1RB#0-0RB#0	21.82	21.84	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132022-132094	50RB#0-25RB#0	19.65	19.67	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132397-132469	1RB#0-0RB#0	21.78	21.8	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132397-132469	50RB#0-25RB#0	19.82	19.84	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132572-132644	1RB#0-0RB#0	21.62	21.64	30	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132572-132644	50RB#0-25RB#0	19.69	19.71	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132022-132094	1RB#0-0RB#0	20.79	20.81	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132022-132094	50RB#0-25RB#0	19.68	19.7	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132397-132469	1RB#0-0RB#0	20.67	20.69	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132397-132469	50RB#0-25RB#0	19.65	19.67	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132572-132644	1RB#0-0RB#0	20.54	20.56	30	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132572-132644	50RB#0-25RB#0	19.84	19.86	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132022-132094	1RB#0-0RB#0	17.48	17.5	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132022-132094	50RB#0-25RB#0	17.64	17.66	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132397-132469	1RB#0-0RB#0	17.61	17.63	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132397-132469	50RB#0-25RB#0	17.73	17.75	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132572-132644	1RB#0-0RB#0	17.51	17.53	30	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132572-132644	50RB#0-25RB#0	17.86	17.88	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132047-132140	1RB#0-0RB#0	22.04	22.06	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132047-132140	75RB#0-25RB#0	20.75	20.77	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132398-132491	1RB#0-0RB#0	22.12	22.14	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132398-132491	75RB#0-25RB#0	20.87	20.89	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132549-132642	1RB#0-0RB#0	22.15	22.17	30	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132549-132642	75RB#0-25RB#0	20.98	21	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132047-132140	1RB#0-0RB#0	21.95	21.97	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132047-132140	75RB#0-25RB#0	19.67	19.69	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132398-132491	1RB#0-0RB#0	22.02	22.04	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132398-132491	75RB#0-25RB#0	19.73	19.75	30	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132549-132642	1RB#0-0RB#0	22.09	22.11	30	PASS



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66-66	15MHz-5MHz	16QAM-16QAM	132549-132642	75RB#0-25RB#0	19.78	19.8	30	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132047-132140	1RB#0-0RB#0	20.92	20.94	30	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132047-132140	75RB#0-25RB#0	19.76	19.78	30	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132398-132491	1RB#0-0RB#0	21.14	21.16	30	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132398-132491	75RB#0-25RB#0	19.91	19.93	30	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132549-132642	1RB#0-0RB#0	21.03	21.05	30	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132549-132642	75RB#0-25RB#0	20.07	20.09	30	PASS
66-66	15MHz-5MHz	256QAM-256QAM	132047-132140	1RB#0-0RB#0	17.87	17.89	30	PASS
66-66	15MHz-5MHz	256QAM-256QAM	132047-132140	75RB#0-25RB#0	17.76	17.78	30	PASS
66-66	15MHz-5MHz	256QAM-256QAM	132398-132491	1RB#0-0RB#0	17.88	17.9	30	PASS
66-66	15MHz-5MHz	256QAM-256QAM	132398-132491	75RB#0-25RB#0	17.92	17.94	30	PASS
66-66	15MHz-5MHz	256QAM-256QAM	132549-132642	1RB#0-0RB#0	17.79	17.81	30	PASS
66-66	15MHz-5MHz	256QAM-256QAM	132549-132642	75RB#0-25RB#0	18.05	18.07	30	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132000-132072	1RB#0-0RB#0	21.67	21.69	30	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132000-132072	25RB#0-50RB#0	20.69	20.71	30	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132375-132447	1RB#0-0RB#0	21.83	21.85	30	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132375-132447	25RB#0-50RB#0	20.79	20.81	30	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132550-132622	1RB#0-0RB#0	21.73	21.75	30	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132550-132622	25RB#0-50RB#0	20.68	20.7	30	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132000-132072	1RB#0-0RB#0	21.59	21.61	30	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132000-132072	25RB#0-50RB#0	19.68	19.7	30	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132375-132447	1RB#0-0RB#0	21.81	21.83	30	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132375-132447	25RB#0-50RB#0	19.83	19.85	30	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132550-132622	1RB#0-0RB#0	21.58	21.6	30	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132550-132622	25RB#0-50RB#0	19.57	19.59	30	PASS
66-66	5MHz-10MHz	64QAM-64QAM	132000-132072	1RB#0-0RB#0	20.5	20.52	30	PASS
66-66	5MHz-10MHz	64QAM-64QAM	132000-132072	25RB#0-50RB#0	19.71	19.73	30	PASS
66-66	5MHz-10MHz	64QAM-64QAM	132375-132447	1RB#0-0RB#0	20.83	20.85	30	PASS
66-66	5MHz-10MHz	64QAM-64QAM	132375-132447	25RB#0-50RB#0	19.75	19.77	30	PASS
66-66	5MHz-10MHz	64QAM-64QAM	132550-132622	1RB#0-0RB#0	20.74	20.76	30	PASS
66-66	5MHz-10MHz	64QAM-64QAM	132550-132622	25RB#0-50RB#0	19.83	19.85	30	PASS
66-66	5MHz-10MHz	256QAM-256QAM	132000-132072	1RB#0-0RB#0	17.36	17.38	30	PASS



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66-66	5MHz-10MHz	256QAM-256QAM	132000-132072	25RB#0-50RB#0	17.55	17.57	30	PASS
66-66	5MHz-10MHz	256QAM-256QAM	132375-132447	1RB#0-0RB#0	17.69	17.71	30	PASS
66-66	5MHz-10MHz	256QAM-256QAM	132375-132447	25RB#0-50RB#0	17.81	17.83	30	PASS
66-66	5MHz-10MHz	256QAM-256QAM	132550-132622	1RB#0-0RB#0	17.65	17.67	30	PASS
66-66	5MHz-10MHz	256QAM-256QAM	132550-132622	25RB#0-50RB#0	17.76	17.78	30	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132002-132095	1RB#0-0RB#0	21.8	21.82	30	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132002-132095	25RB#0-75RB#0	20.56	20.58	30	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132353-132446	1RB#0-0RB#0	21.9	21.92	30	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132353-132446	25RB#0-75RB#0	20.8	20.82	30	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132504-132597	1RB#0-0RB#0	21.93	21.95	30	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132504-132597	25RB#0-75RB#0	20.79	20.81	30	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132002-132095	1RB#0-0RB#0	21.43	21.45	30	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132002-132095	25RB#0-75RB#0	19.51	19.53	30	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132353-132446	1RB#0-0RB#0	21.78	21.8	30	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132353-132446	25RB#0-75RB#0	19.71	19.73	30	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132504-132597	1RB#0-0RB#0	21.71	21.73	30	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132504-132597	25RB#0-75RB#0	19.66	19.68	30	PASS
66-66	5MHz-15MHz	64QAM-64QAM	132002-132095	1RB#0-0RB#0	20.69	20.71	30	PASS
66-66	5MHz-15MHz	64QAM-64QAM	132002-132095	25RB#0-75RB#0	19.57	19.59	30	PASS
66-66	5MHz-15MHz	64QAM-64QAM	132353-132446	1RB#0-0RB#0	20.67	20.69	30	PASS
66-66	5MHz-15MHz	64QAM-64QAM	132353-132446	25RB#0-75RB#0	19.84	19.86	30	PASS
66-66	5MHz-15MHz	64QAM-64QAM	132504-132597	1RB#0-0RB#0	20.76	20.78	30	PASS
66-66	5MHz-15MHz	64QAM-64QAM	132504-132597	25RB#0-75RB#0	19.7	19.72	30	PASS
66-66	5MHz-15MHz	256QAM-256QAM	132002-132095	1RB#0-0RB#0	17.42	17.44	30	PASS
66-66	5MHz-15MHz	256QAM-256QAM	132002-132095	25RB#0-75RB#0	17.64	17.66	30	PASS
66-66	5MHz-15MHz	256QAM-256QAM	132353-132446	1RB#0-0RB#0	17.54	17.56	30	PASS
66-66	5MHz-15MHz	256QAM-256QAM	132353-132446	25RB#0-75RB#0	17.72	17.74	30	PASS
66-66	5MHz-15MHz	256QAM-256QAM	132504-132597	1RB#0-0RB#0	17.57	17.59	30	PASS
66-66	5MHz-15MHz	256QAM-256QAM	132504-132597	25RB#0-75RB#0	17.84	17.86	30	PASS
66-66	5MHz-5MHz	QPSK-QPSK	131997-132045	1RB#0-0RB#0	21.79	21.81	30	PASS
66-66	5MHz-5MHz	QPSK-QPSK	131997-132045	25RB#0-25RB#0	20.58	20.6	30	PASS
66-66	5MHz-5MHz	QPSK-QPSK	132398-132446	1RB#0-0RB#0	21.86	21.88	30	PASS



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66-66	5MHz-5MHz	QPSK-QPSK	132398-132446	25RB#0-25RB#0	20.75	20.77	30	PASS
66-66	5MHz-5MHz	QPSK-QPSK	132599-132647	1RB#0-0RB#0	21.93	21.95	30	PASS
66-66	5MHz-5MHz	QPSK-QPSK	132599-132647	25RB#0-25RB#0	20.73	20.75	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	131997-132045	1RB#0-0RB#0	21.8	21.82	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	131997-132045	25RB#0-25RB#0	19.62	19.64	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132398-132446	1RB#0-0RB#0	21.75	21.77	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132398-132446	25RB#0-25RB#0	19.76	19.78	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132599-132647	1RB#0-0RB#0	21.77	21.79	30	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132599-132647	25RB#0-25RB#0	19.69	19.71	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	131997-132045	1RB#0-0RB#0	20.67	20.69	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	131997-132045	25RB#0-25RB#0	19.66	19.68	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132398-132446	1RB#0-0RB#0	20.81	20.83	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132398-132446	25RB#0-25RB#0	19.69	19.71	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132599-132647	1RB#0-0RB#0	20.81	20.83	30	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132599-132647	25RB#0-25RB#0	19.75	19.77	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	131997-132045	1RB#0-0RB#0	17.6	17.62	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	131997-132045	25RB#0-25RB#0	17.55	17.57	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132398-132446	1RB#0-0RB#0	17.59	17.61	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132398-132446	25RB#0-25RB#0	17.72	17.74	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132599-132647	1RB#0-0RB#0	17.6	17.62	30	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132599-132647	25RB#0-25RB#0	17.7	17.72	30	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
66-66	10MHz-10MHz	QPSK-QPSK	132022-132121	50RB#0-50RB#0	6.30	13	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132373-132472	50RB#0-50RB#0	6.32	13	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132523-132622	50RB#0-50RB#0	5.90	13	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132022-132121	50RB#0-50RB#0	7.04	13	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132373-132472	50RB#0-50RB#0	6.98	13	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132523-132622	50RB#0-50RB#0	6.60	13	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132022-132121	50RB#0-50RB#0	7.40	13	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132373-132472	50RB#0-50RB#0	7.28	13	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132523-132622	50RB#0-50RB#0	6.84	13	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132022-132121	50RB#0-50RB#0	7.28	13	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132373-132472	50RB#0-50RB#0	7.26	13	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132523-132622	50RB#0-50RB#0	6.94	13	PASS



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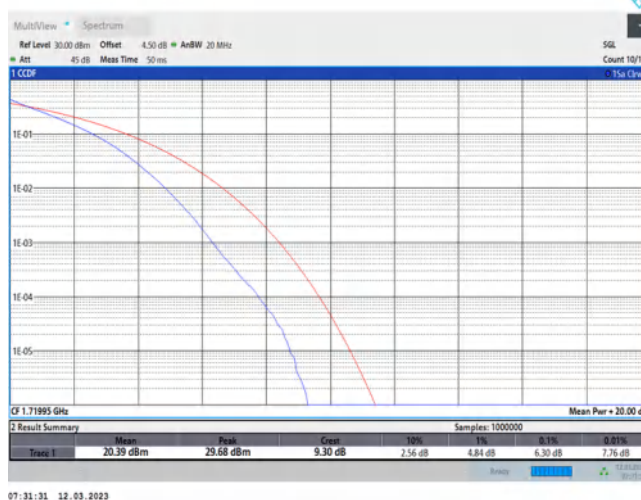
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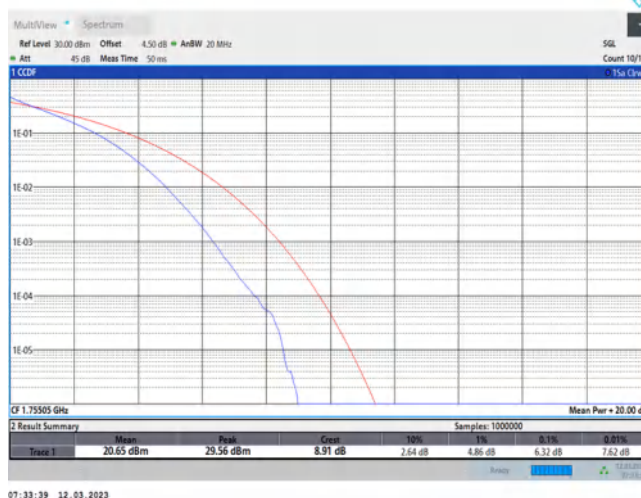
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Test Graphs

66-66-10MHz-10MHz-QPSK-QPSK-132022-132121-50RB#0-50RB#0



66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-50RB#0-50RB#0



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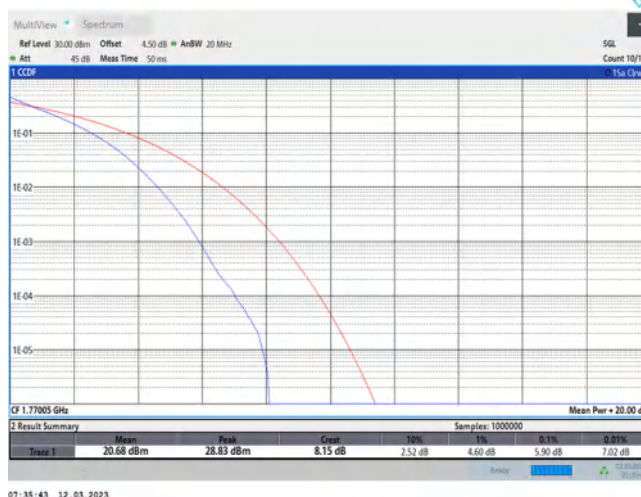
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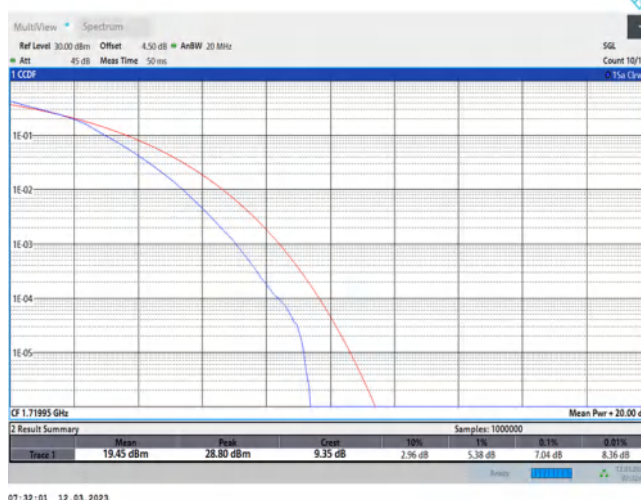
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66-66-10MHz-10MHz-16QAM-16QAM-132022-132121-50RB#0-50RB#0



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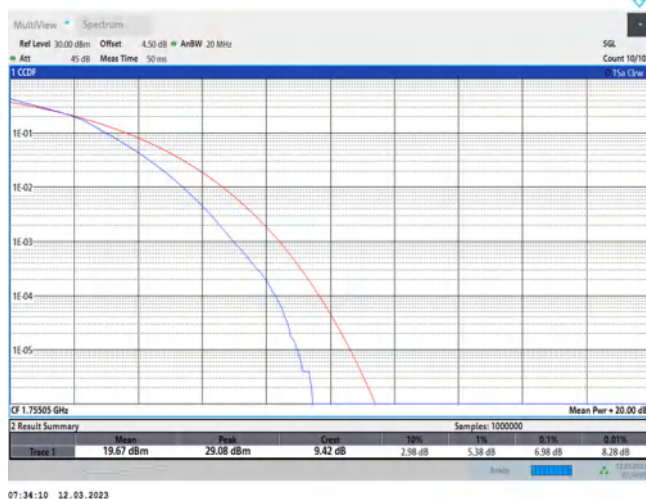
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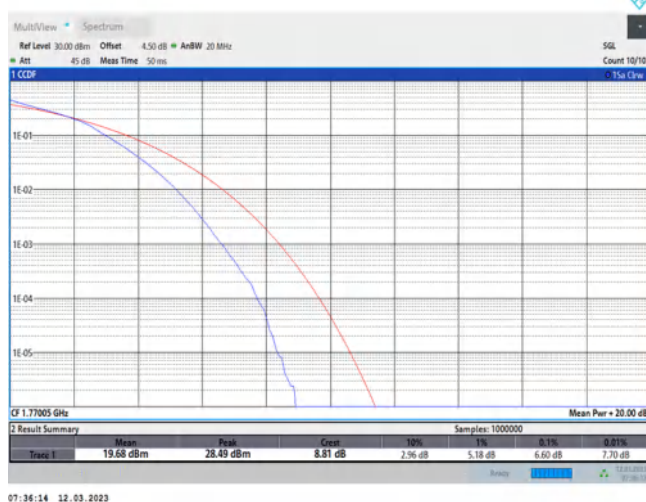
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66-66-10MHz-10MHz-16QAM-16QAM-132523-132622-50RB#0-50RB#0



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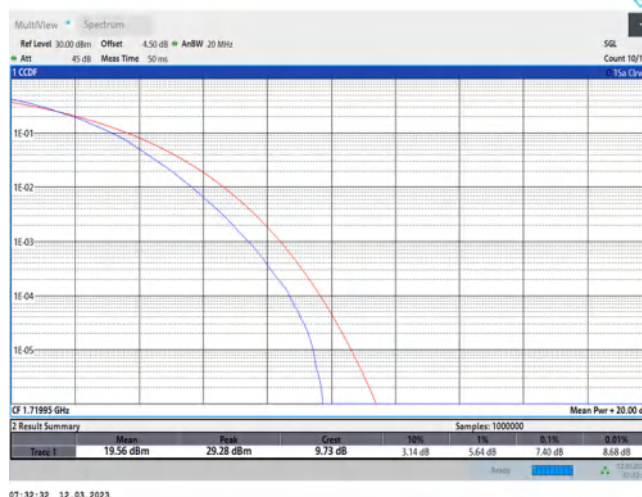
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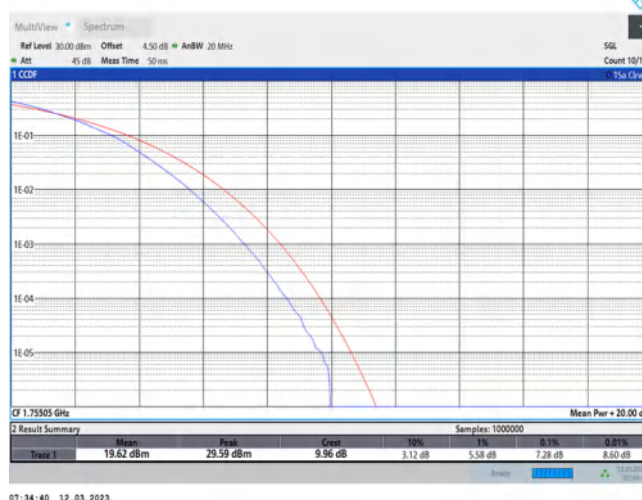
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66-66-10MHz-10MHz-64QAM-64QAM-132373-132472-50RB#0-50RB#0



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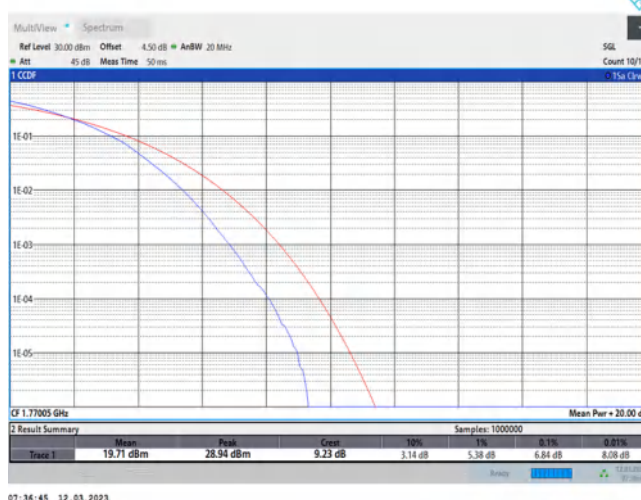
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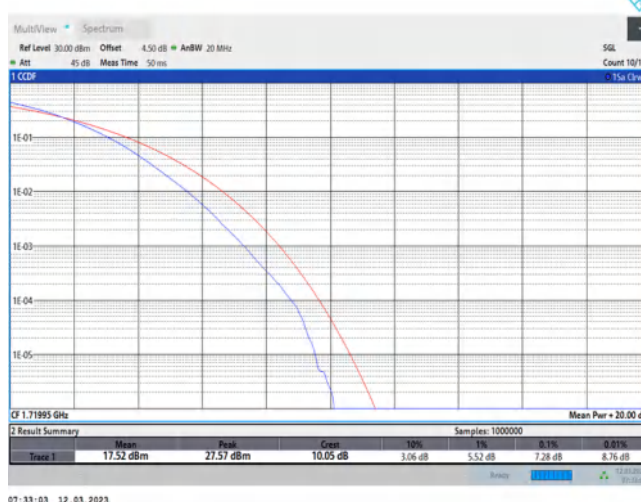
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66-66-10MHz-10MHz-256QAM-256QAM-132022-132121-50RB#0-50RB#0



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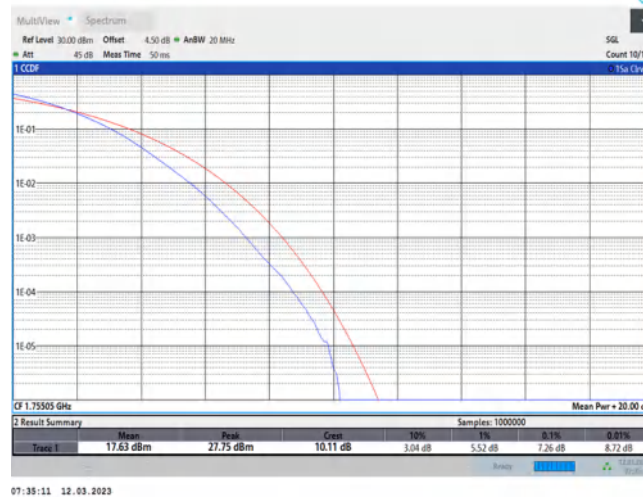
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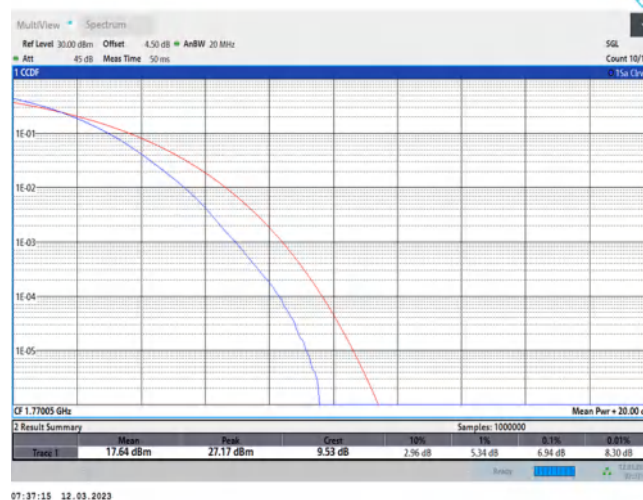
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66-66-10MHz-10MHz-256QAM-256QAM-132523-132622-50RB#0-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
66-66	10MHz-10MHz	QPSK-QPSK	132022-132121	50RB#0-50RB#0	18.867	20.24	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132373-132472	50RB#0-50RB#0	18.835	20.28	PASS
66-66	10MHz-10MHz	QPSK-QPSK	132523-132622	50RB#0-50RB#0	18.848	20.28	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132022-132121	50RB#0-50RB#0	18.823	20.20	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132373-132472	50RB#0-50RB#0	18.794	20.20	PASS
66-66	10MHz-10MHz	16QAM-16QAM	132523-132622	50RB#0-50RB#0	18.806	20.16	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132022-132121	50RB#0-50RB#0	18.829	20.16	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132373-132472	50RB#0-50RB#0	18.825	20.16	PASS
66-66	10MHz-10MHz	64QAM-64QAM	132523-132622	50RB#0-50RB#0	18.809	20.16	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132022-132121	50RB#0-50RB#0	18.812	20.28	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132373-132472	50RB#0-50RB#0	18.814	20.20	PASS
66-66	10MHz-10MHz	256QAM-256QAM	132523-132622	50RB#0-50RB#0	18.768	20.20	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132022-132094	50RB#0-25RB#0	13.861	14.79	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132397-132469	50RB#0-25RB#0	13.878	14.79	PASS
66-66	10MHz-5MHz	QPSK-QPSK	132572-132644	50RB#0-25RB#0	13.873	14.82	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132022-132094	50RB#0-25RB#0	13.862	14.85	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132397-132469	50RB#0-25RB#0	13.857	14.82	PASS
66-66	10MHz-5MHz	16QAM-16QAM	132572-132644	50RB#0-25RB#0	13.859	14.82	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132022-132094	50RB#0-25RB#0	13.857	14.82	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132397-132469	50RB#0-25RB#0	13.847	14.85	PASS
66-66	10MHz-5MHz	64QAM-64QAM	132572-132644	50RB#0-25RB#0	13.853	14.85	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132022-132094	50RB#0-25RB#0	13.911	15.24	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132397-132469	50RB#0-25RB#0	13.87	14.85	PASS
66-66	10MHz-5MHz	256QAM-256QAM	132572-132644	50RB#0-25RB#0	13.879	14.85	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132047-132140	75RB#0-25RB#0	18.257	19.72	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132398-132491	75RB#0-25RB#0	18.267	19.72	PASS
66-66	15MHz-5MHz	QPSK-QPSK	132549-132642	75RB#0-25RB#0	18.266	19.72	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132047-132140	75RB#0-25RB#0	18.26	19.64	PASS
66-66	15MHz-5MHz	16QAM-16QAM	132398-132491	75RB#0-25RB#0	18.269	19.60	PASS



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66-66	15MHz-5MHz	16QAM-16QAM	132549-132642	75RB#0-25RB#0	18.275	19.68	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132047-132140	75RB#0-25RB#0	18.242	19.72	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132398-132491	75RB#0-25RB#0	18.233	19.72	PASS
66-66	15MHz-5MHz	64QAM-64QAM	132549-132642	75RB#0-25RB#0	18.269	19.76	PASS
66-66	15MHz-5MHz	256QAM-256QAM	132047-132140	75RB#0-25RB#0	18.306	19.76	PASS
66-66	15MHz-5MHz	256QAM-256QAM	132398-132491	75RB#0-25RB#0	18.318	19.76	PASS
66-66	15MHz-5MHz	256QAM-256QAM	132549-132642	75RB#0-25RB#0	18.325	19.76	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132000-132072	25RB#0-50RB#0	13.885	14.85	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132375-132447	25RB#0-50RB#0	13.88	14.82	PASS
66-66	5MHz-10MHz	QPSK-QPSK	132550-132622	25RB#0-50RB#0	13.85	14.79	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132000-132072	25RB#0-50RB#0	13.852	14.70	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132375-132447	25RB#0-50RB#0	13.846	14.67	PASS
66-66	5MHz-10MHz	16QAM-16QAM	132550-132622	25RB#0-50RB#0	13.838	14.67	PASS
66-66	5MHz-10MHz	64QAM-64QAM	132000-132072	25RB#0-50RB#0	13.878	14.70	PASS
66-66	5MHz-10MHz	64QAM-64QAM	132375-132447	25RB#0-50RB#0	13.866	14.73	PASS
66-66	5MHz-10MHz	64QAM-64QAM	132550-132622	25RB#0-50RB#0	13.844	14.67	PASS
66-66	5MHz-10MHz	256QAM-256QAM	132000-132072	25RB#0-50RB#0	13.819	14.67	PASS
66-66	5MHz-10MHz	256QAM-256QAM	132375-132447	25RB#0-50RB#0	13.848	14.70	PASS
66-66	5MHz-10MHz	256QAM-256QAM	132550-132622	25RB#0-50RB#0	13.806	14.73	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132002-132095	25RB#0-75RB#0	18.326	19.48	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132353-132446	25RB#0-75RB#0	18.334	19.60	PASS
66-66	5MHz-15MHz	QPSK-QPSK	132504-132597	25RB#0-75RB#0	18.293	19.48	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132002-132095	25RB#0-75RB#0	18.263	19.40	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132353-132446	25RB#0-75RB#0	18.266	19.40	PASS
66-66	5MHz-15MHz	16QAM-16QAM	132504-132597	25RB#0-75RB#0	18.223	19.36	PASS
66-66	5MHz-15MHz	64QAM-64QAM	132002-132095	25RB#0-75RB#0	18.319	19.52	PASS
66-66	5MHz-15MHz	64QAM-64QAM	132353-132446	25RB#0-75RB#0	18.277	19.52	PASS
66-66	5MHz-15MHz	64QAM-64QAM	132504-132597	25RB#0-75RB#0	18.244	19.56	PASS
66-66	5MHz-15MHz	256QAM-256QAM	132002-132095	25RB#0-75RB#0	18.239	19.40	PASS
66-66	5MHz-15MHz	256QAM-256QAM	132353-132446	25RB#0-75RB#0	18.25	19.40	PASS
66-66	5MHz-15MHz	256QAM-256QAM	132504-132597	25RB#0-75RB#0	18.212	19.40	PASS
66-66	5MHz-5MHz	QPSK-QPSK	131997-132045	25RB#0-25RB#0	9.226	9.86	PASS
66-66	5MHz-5MHz	QPSK-QPSK	132398-132446	25RB#0-25RB#0	9.228	9.86	PASS
66-66	5MHz-5MHz	QPSK-QPSK	132599-132647	25RB#0-25RB#0	9.227	9.84	PASS
66-66	5MHz-5MHz	16QAM-16QAM	131997-132045	25RB#0-25RB#0	9.21	9.86	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132398-132446	25RB#0-25RB#0	9.212	9.86	PASS
66-66	5MHz-5MHz	16QAM-16QAM	132599-132647	25RB#0-25RB#0	9.214	9.86	PASS



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66-66	5MHz-5MHz	64QAM-64QAM	131997-132045	25RB#0-25RB#0	9.219	9.84	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132398-132446	25RB#0-25RB#0	9.227	9.88	PASS
66-66	5MHz-5MHz	64QAM-64QAM	132599-132647	25RB#0-25RB#0	9.224	9.94	PASS
66-66	5MHz-5MHz	256QAM-256QAM	131997-132045	25RB#0-25RB#0	9.222	9.94	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132398-132446	25RB#0-25RB#0	9.241	9.90	PASS
66-66	5MHz-5MHz	256QAM-256QAM	132599-132647	25RB#0-25RB#0	9.242	9.90	PASS



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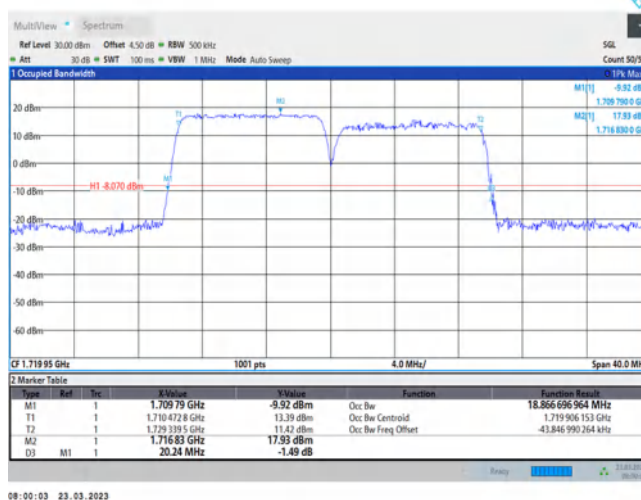
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Test Graphs

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66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-50RB#0-50RB#0



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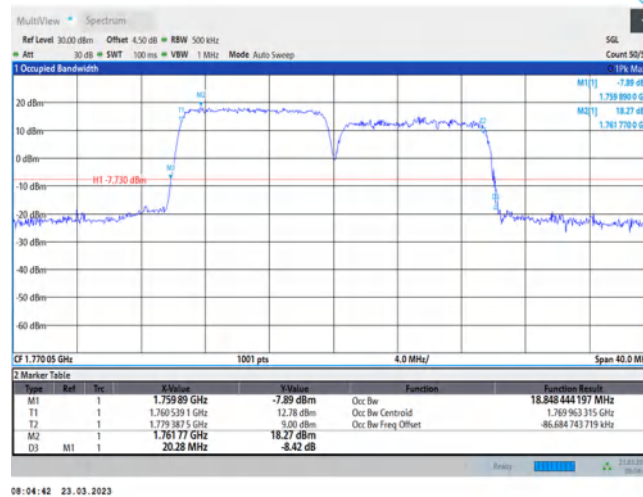
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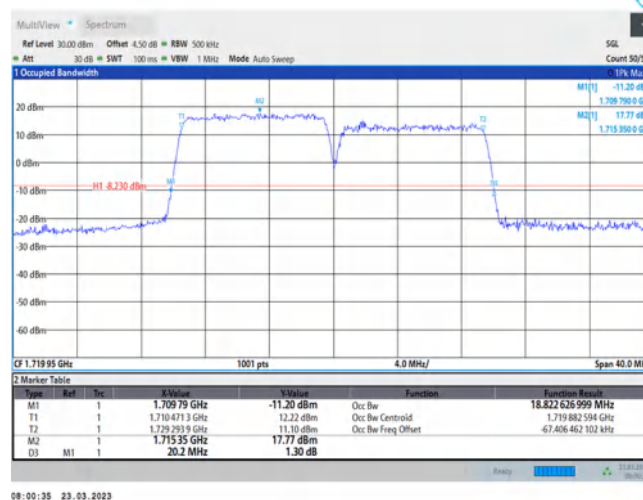
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66-66-10MHz-10MHz-16QAM-16QAM-132022-132121-50RB#0-50RB#0



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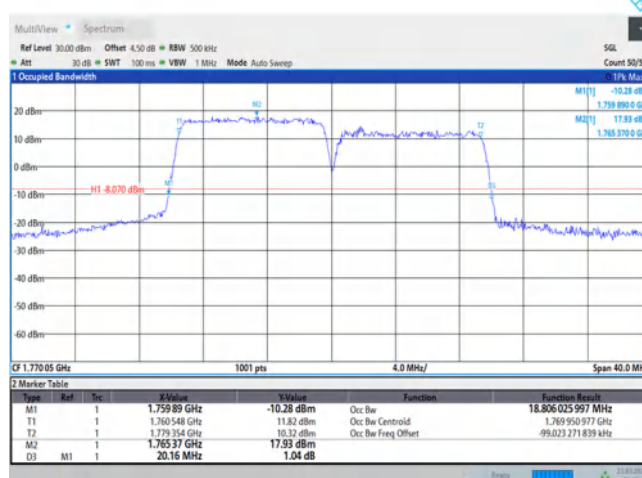
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66-66-10MHz-10MHz-16QAM-16QAM-132523-132622-50RB#0-50RB#0



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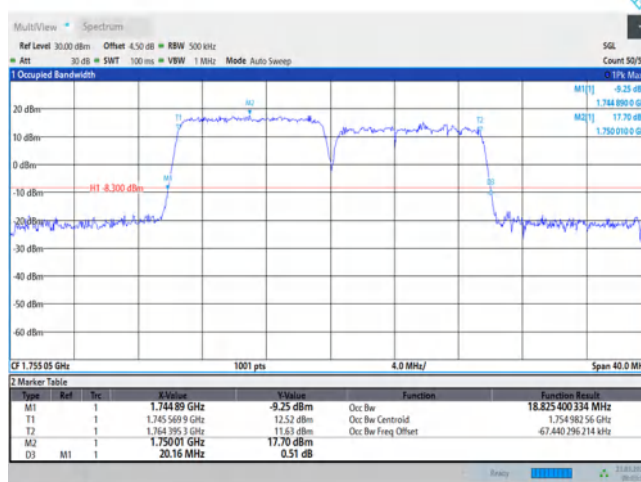
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66-66-10MHz-10MHz-64QAM-64QAM-132373-132472-50RB#0-50RB#0



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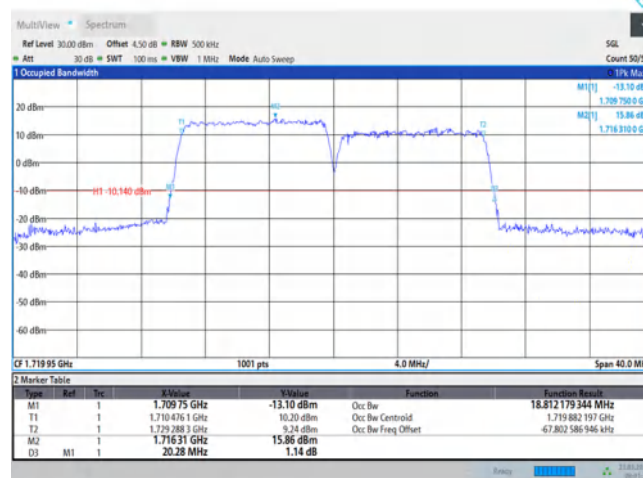
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66-66-10MHz-10MHz-256QAM-256QAM-132022-132121-50RB#0-50RB#0



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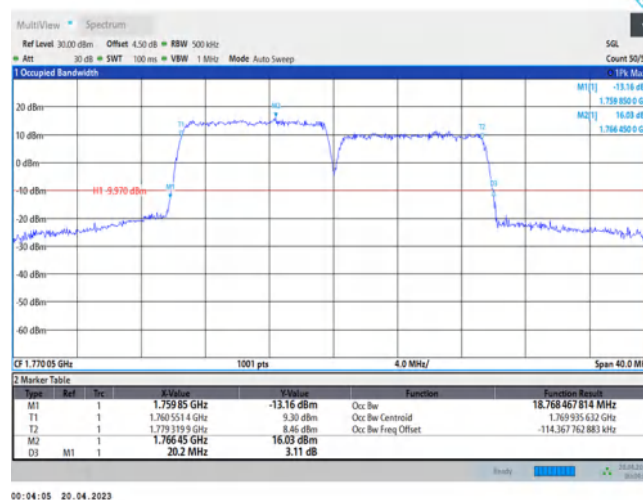
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66-66-10MHz-10MHz-256QAM-256QAM-132373-132472-50RB#0-50RB#0



66-66-10MHz-10MHz-256QAM-256QAM-132523-132622-50RB#0-50RB#0



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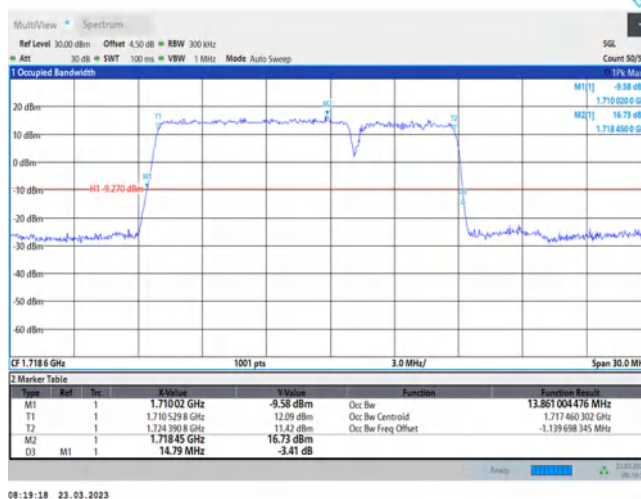
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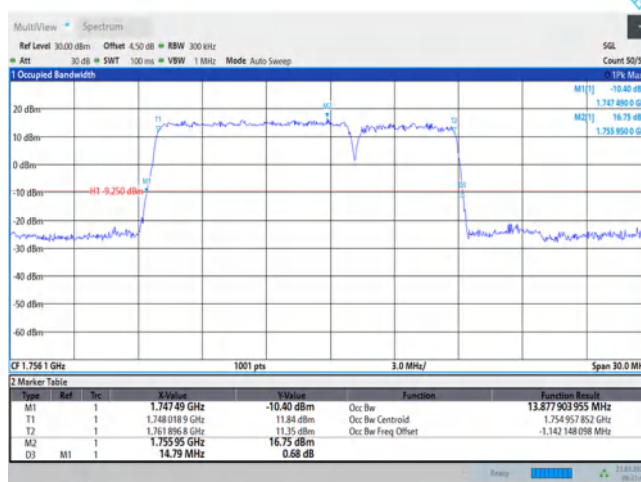
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08:19:18 23.03.2023

66-66-10MHz-5MHz-QPSK-QPSK-132397-132469-50RB#0-25RB#0



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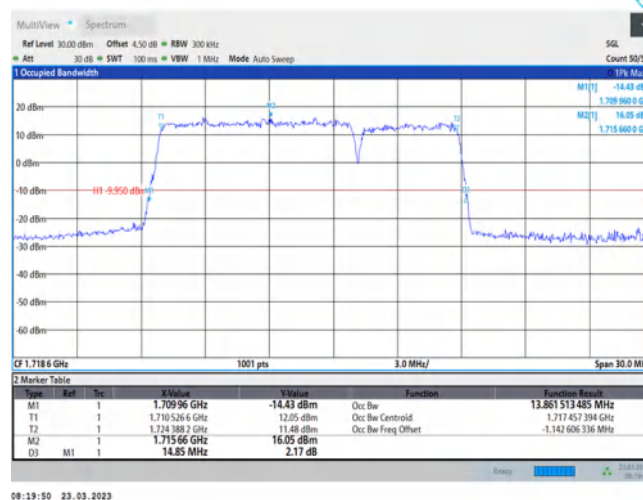
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66-66-10MHz-5MHz-16QAM-16QAM-132022-132094-50RB#0-25RB#0



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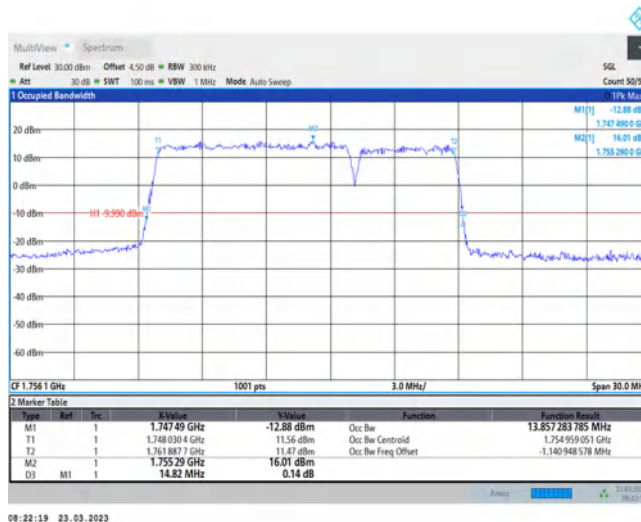
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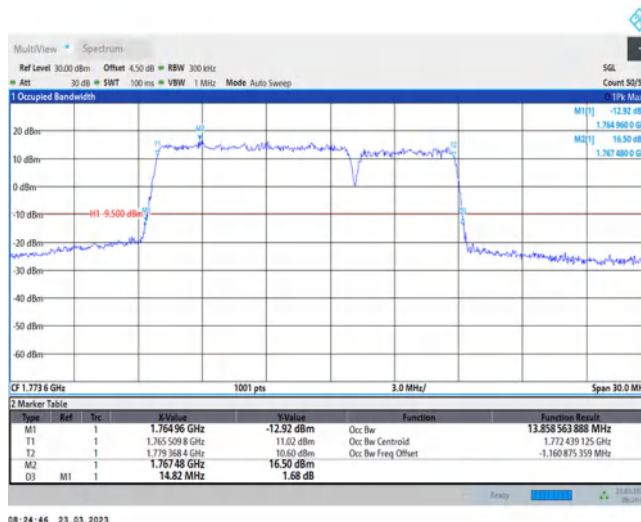
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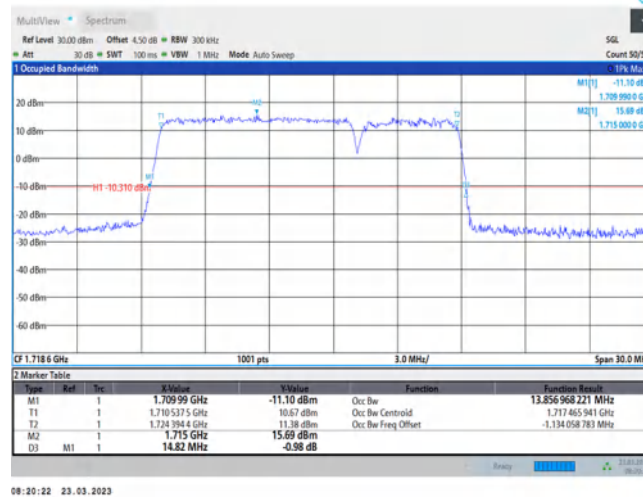
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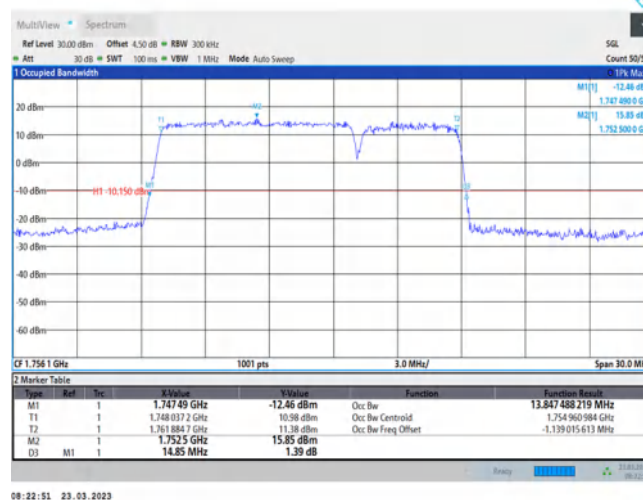
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66-66-10MHz-5MHz-64QAM-64QAM-132397-132469-50RB#0-25RB#0



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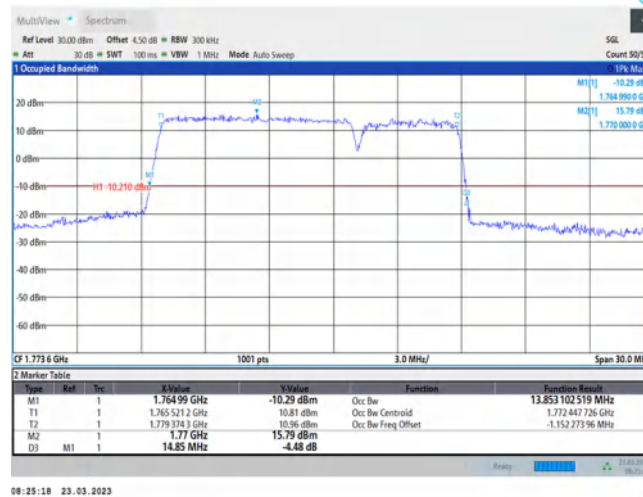
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66-66-10MHz-5MHz-256QAM-256QAM-132022-132094-50RB#0-25RB#0



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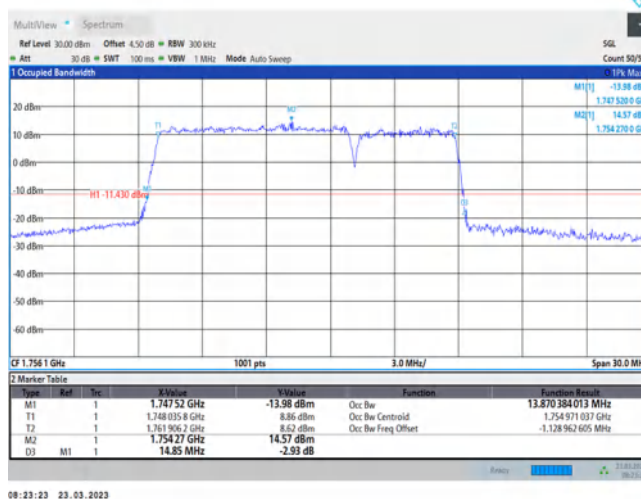
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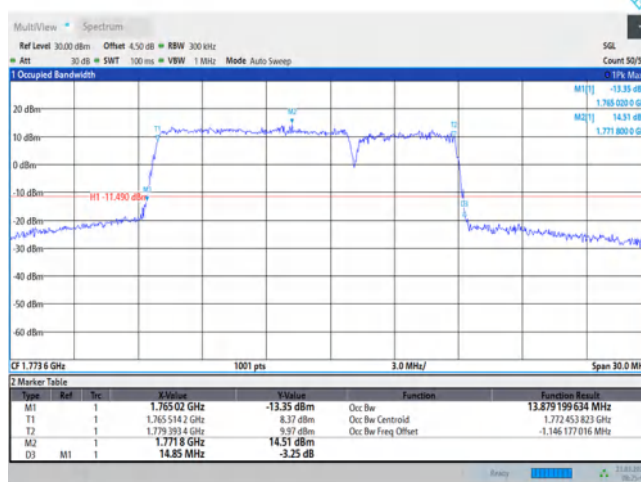
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66-66-10MHz-5MHz-256QAM-256QAM-132572-132644-50RB#0-25RB#0



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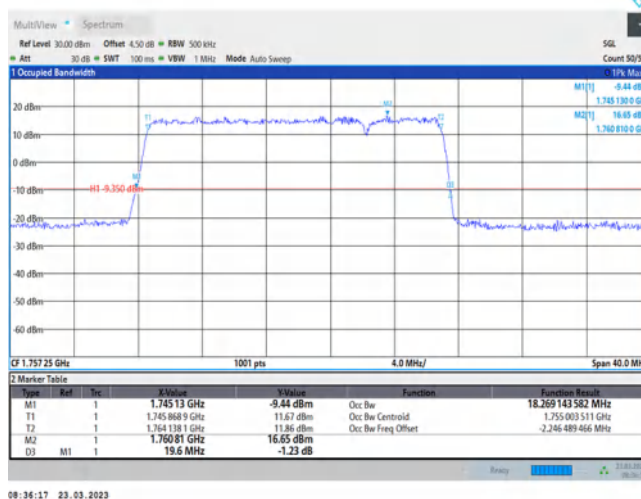
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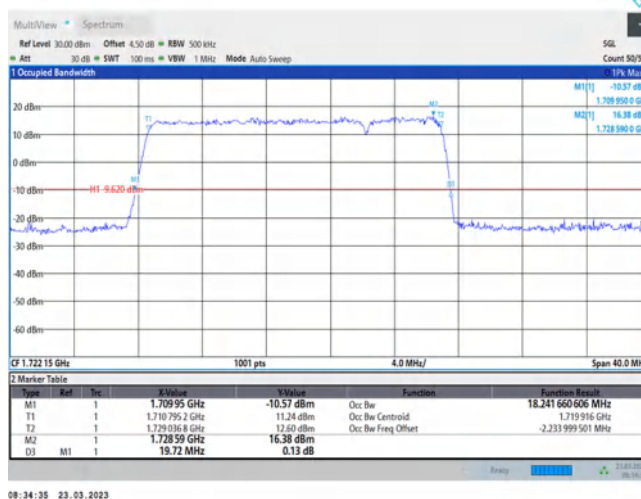
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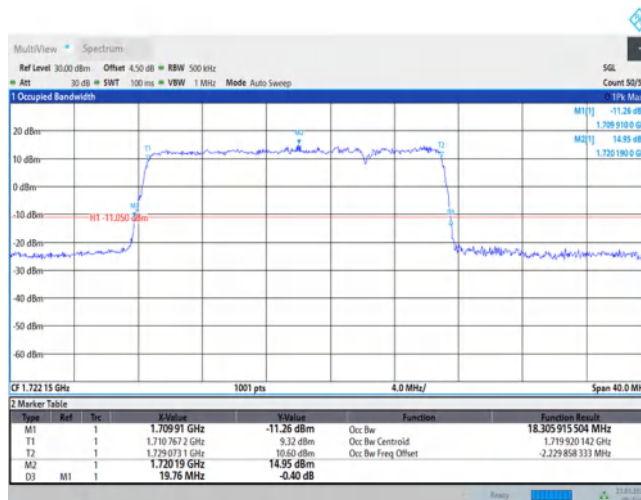
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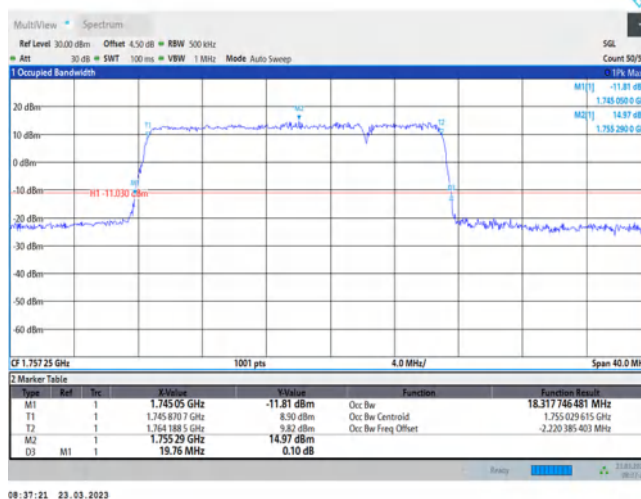
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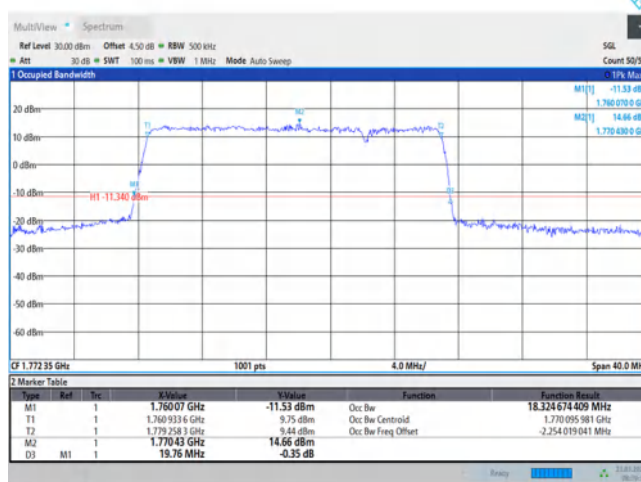
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66-66-15MHz-5MHz-256QAM-256QAM-132398-132491-75RB#0-25RB#0



08:37:21 23.03.2023

66-66-15MHz-5MHz-256QAM-256QAM-132549-132642-75RB#0-25RB#0



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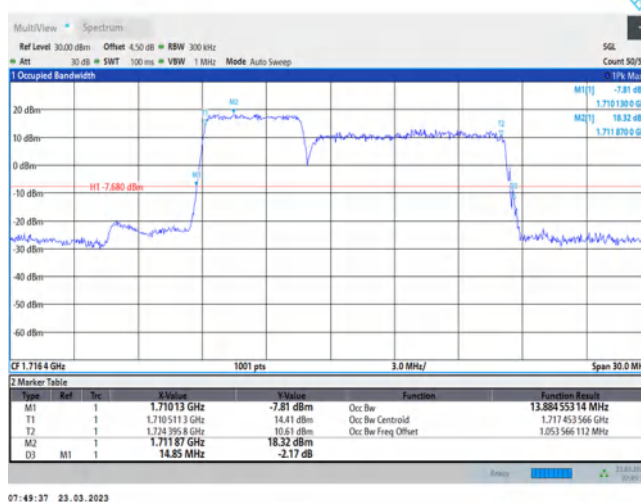
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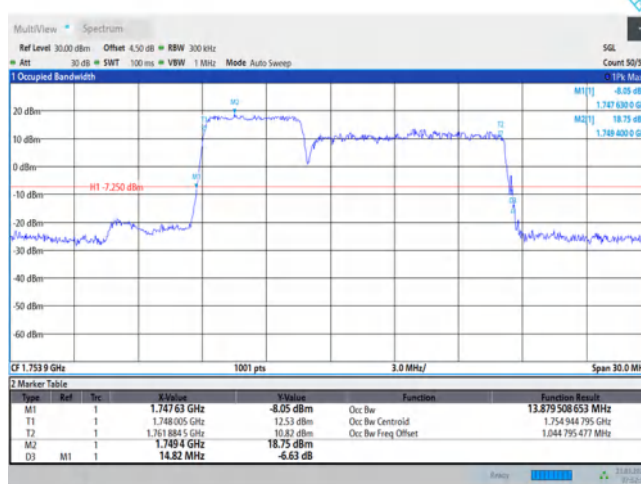
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07:49:37 23.03.2023

66-66-5MHz-10MHz-QPSK-QPSK-132375-132447-25RB#0-50RB#0



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66-66-5MHz-10MHz-16QAM-16QAM-132000-132072-25RB#0-50RB#0



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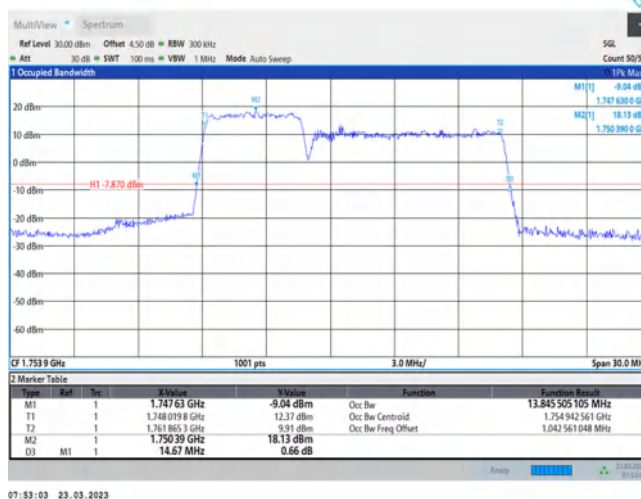
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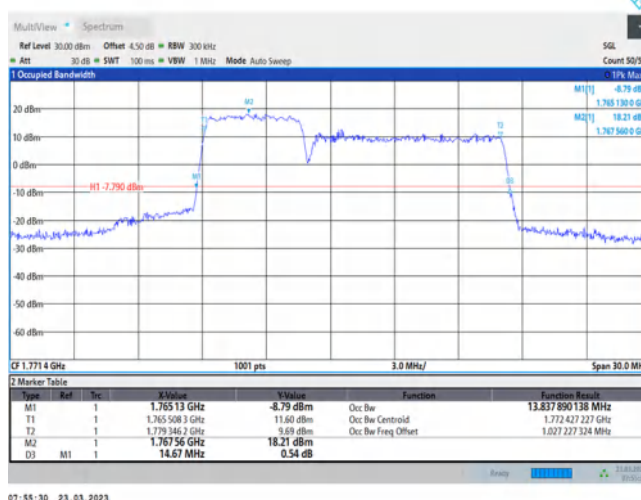
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66-66-5MHz-10MHz-16QAM-16QAM-132550-132622-25RB#0-50RB#0



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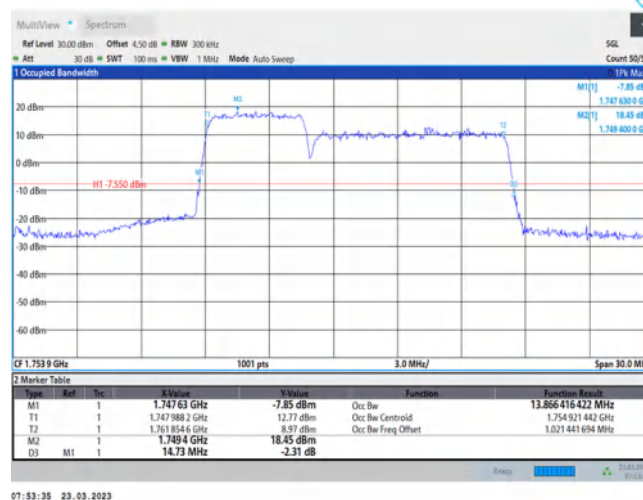
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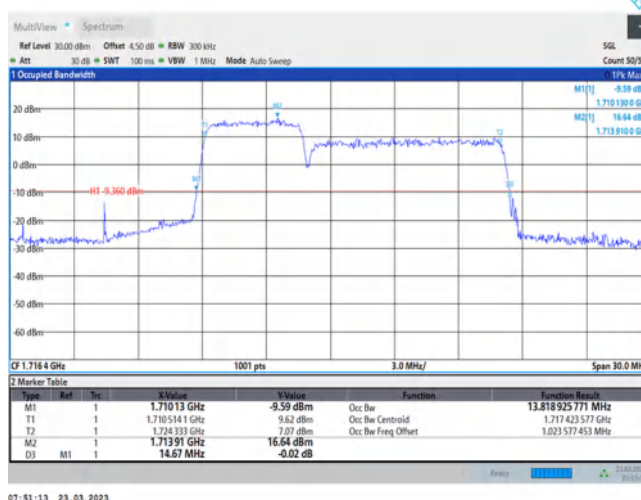
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66-66-5MHz-10MHz-256QAM-256QAM-132000-132072-25RB#0-50RB#0



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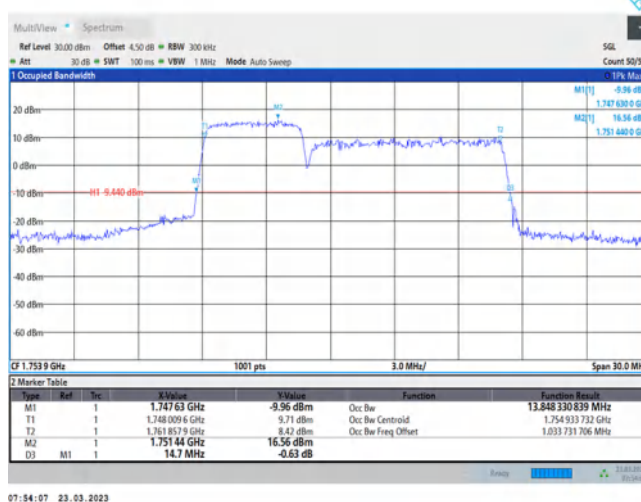
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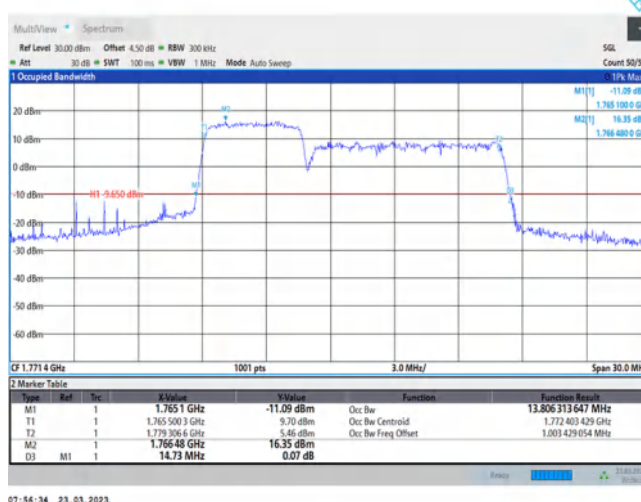
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07:54:07 23.03.2023

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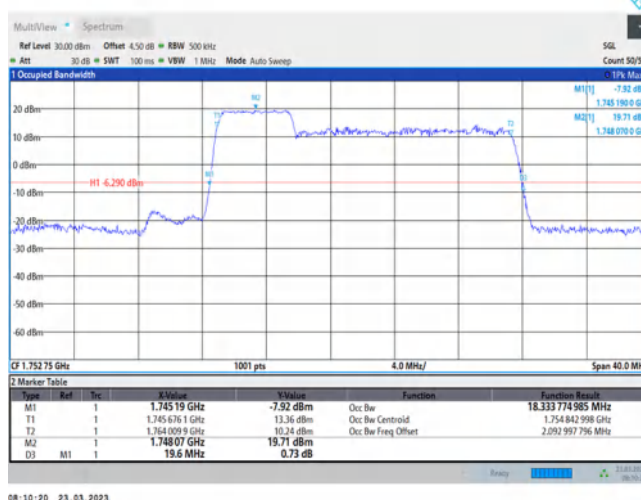
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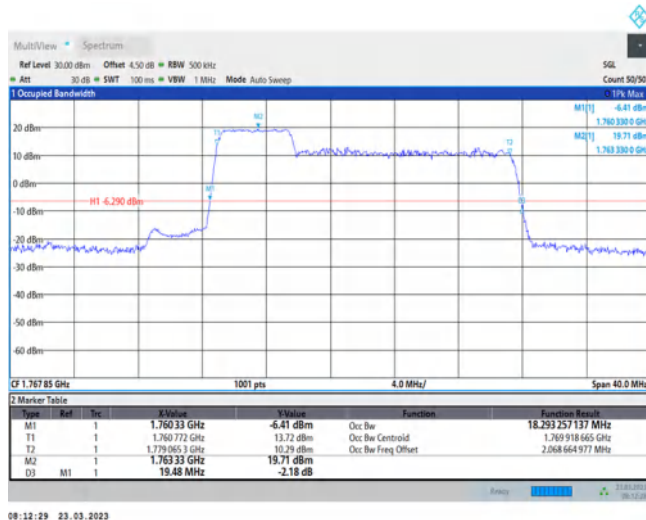
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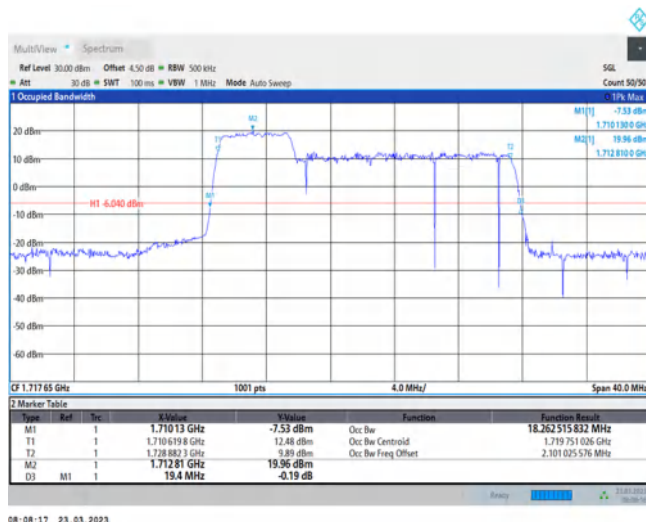
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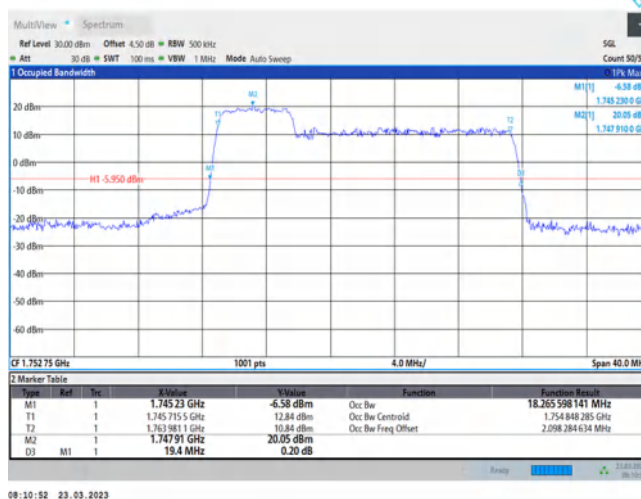
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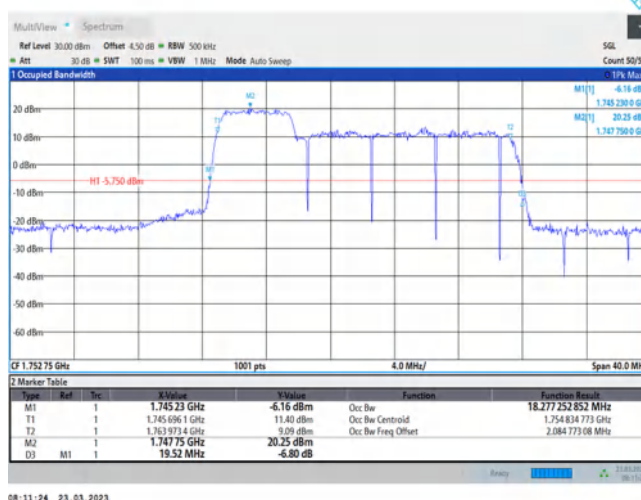
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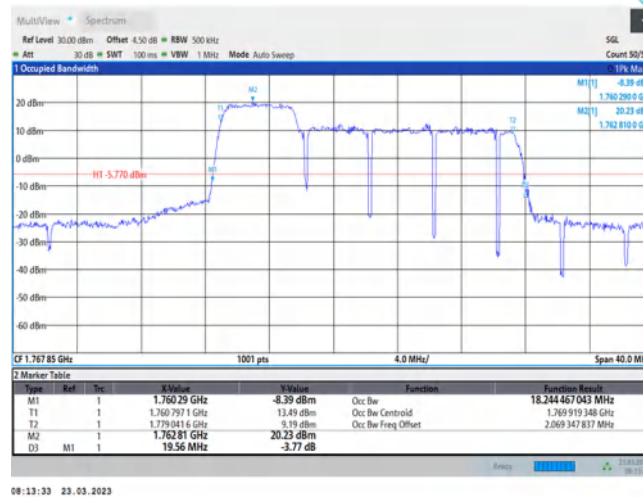
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66-66-5MHz-15MHz-256QAM-256QAM-132002-132095-25RB#0-75RB#0



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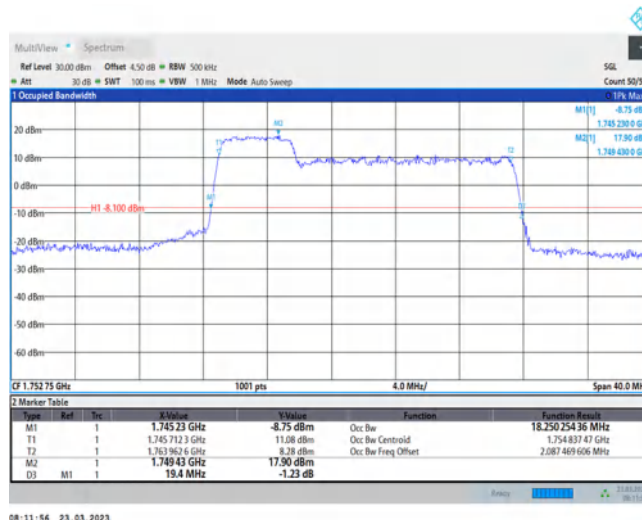
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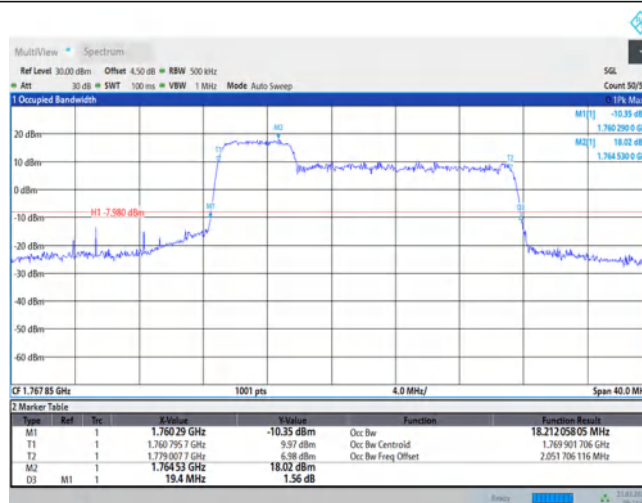
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08:11:56 23.03.2023

66-66-5MHz-15MHz-256QAM-256QAM-132504-132597-25RB#0-75RB#0



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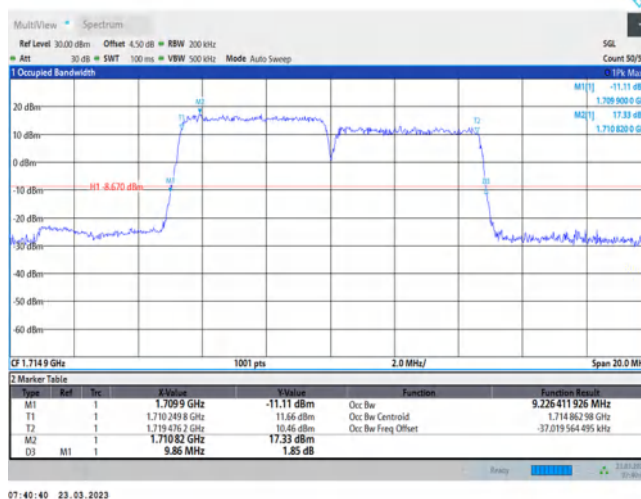
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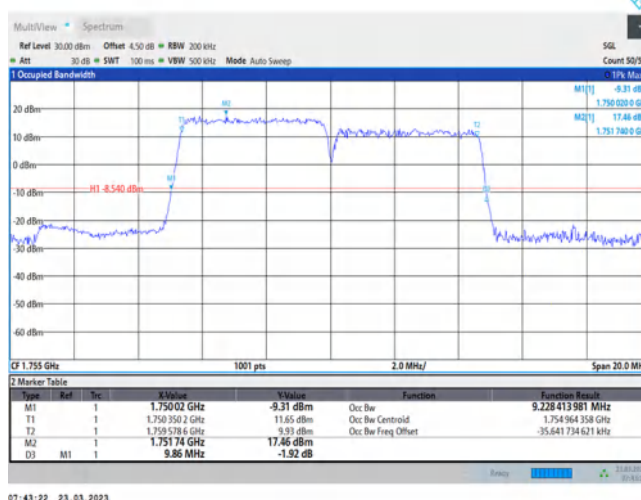
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66-66-5MHz-5MHz-QPSK-QPSK-132398-132446-25RB#0-25RB#0



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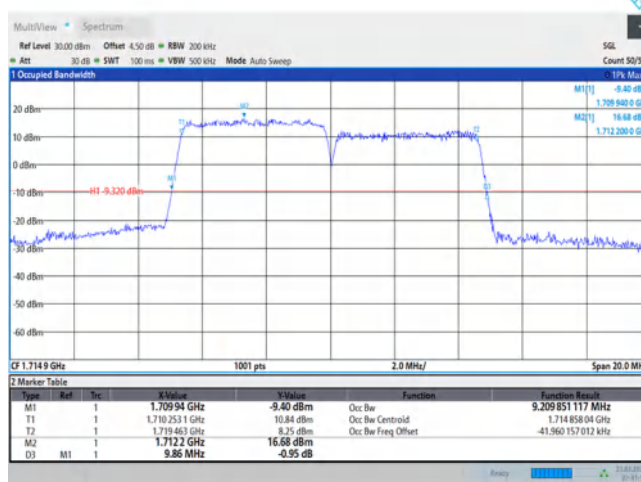
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07:45:57 23.03.2023

66-66-5MHz-5MHz-16QAM-16QAM-131997-132045-25RB#0-25RB#0



07:41:13 23.03.2023



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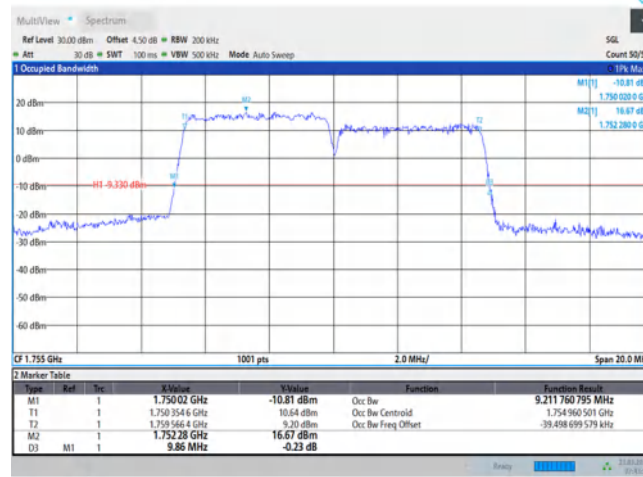
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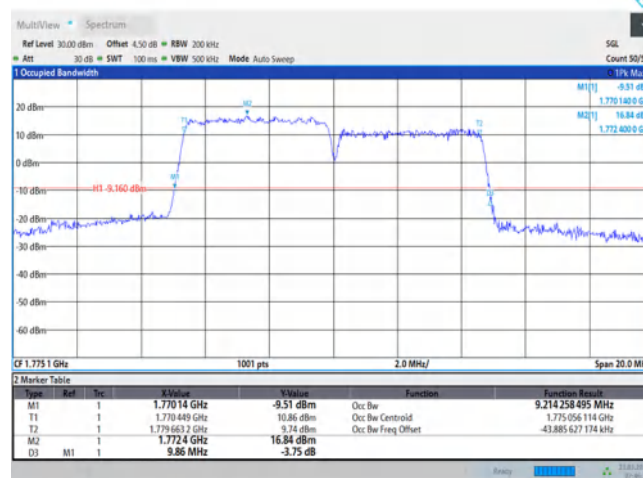
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07:43:54 23.03.2023

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07:46:30 23.03.2023



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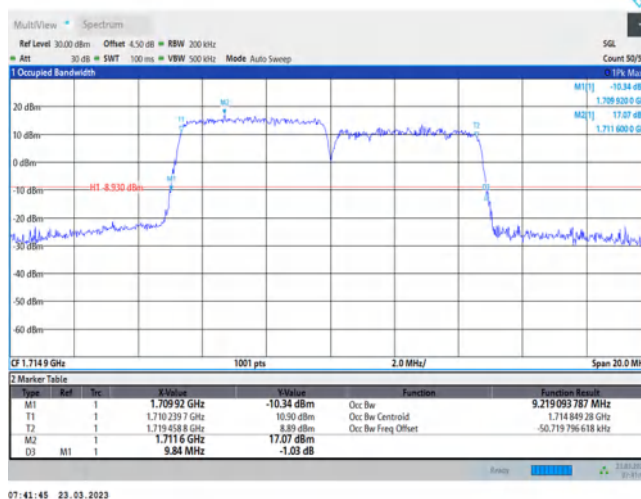
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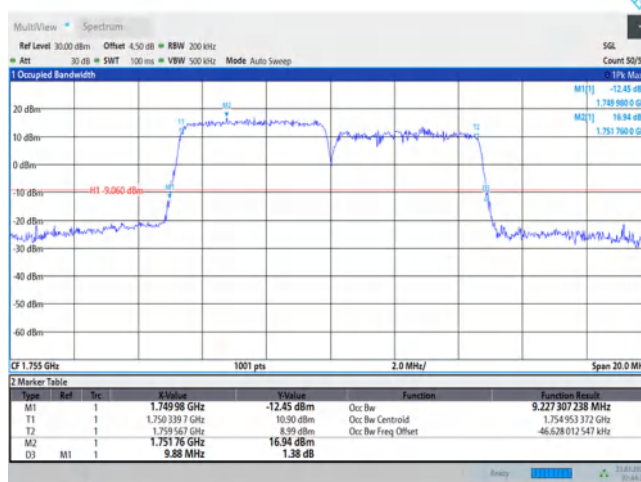
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07:41:45 23.03.2023

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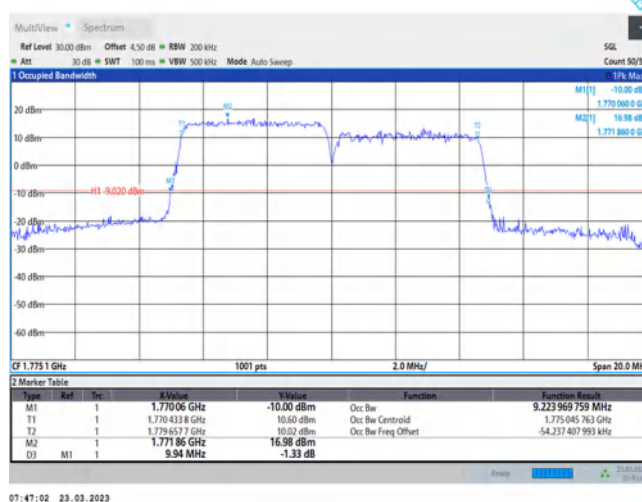
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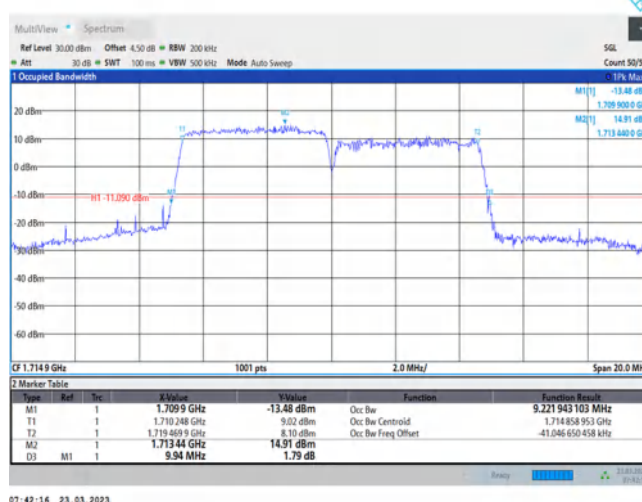
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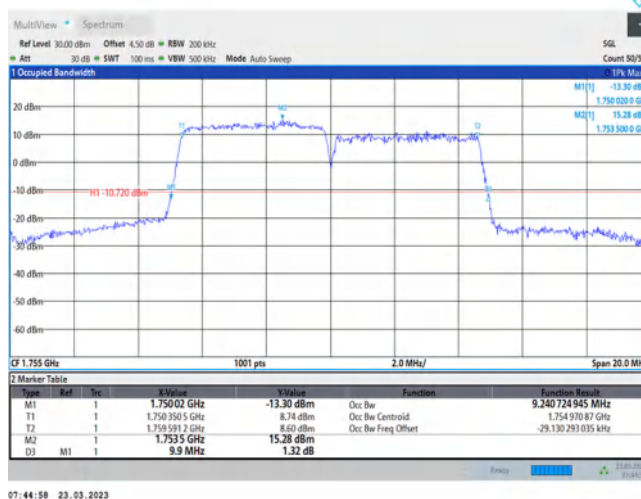
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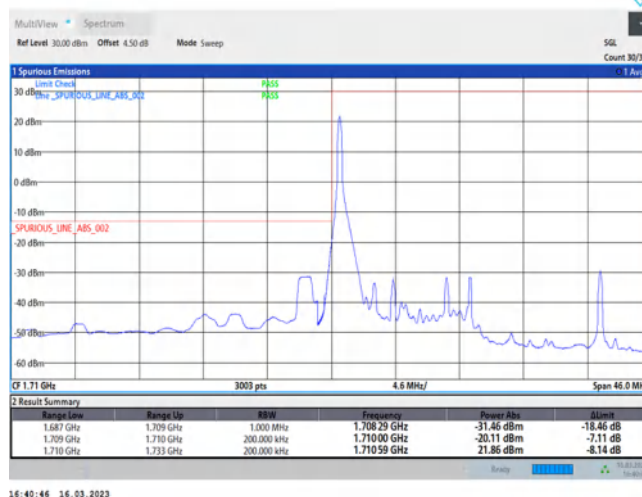
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Band Edge

Test Graphs

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66-66-10MHz-10MHz-QPSK-QPSK-132022-132121-50RB#0-50RB#0



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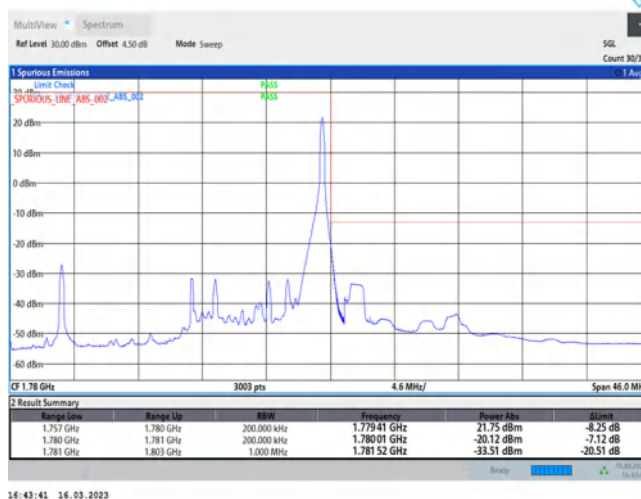
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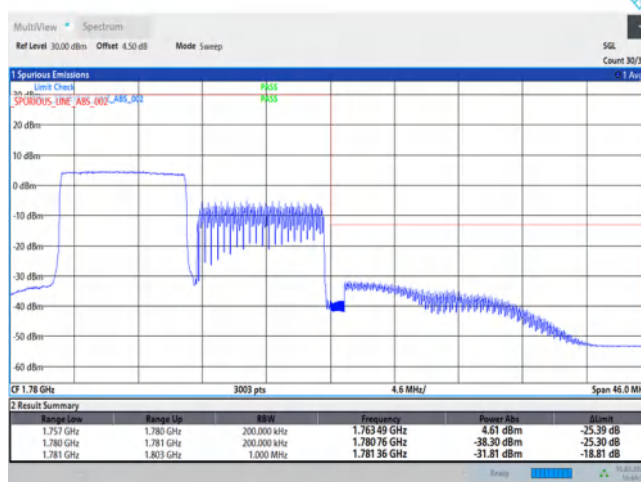
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16:43:41 16.03.2023

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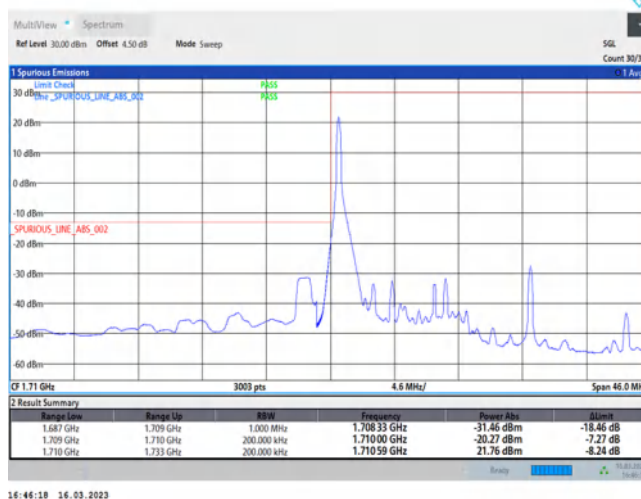
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66-66-10MHz-5MHz-QPSK-QPSK-132572-132644-50RB#0-25RB#0



08:32:04 23.03.2023



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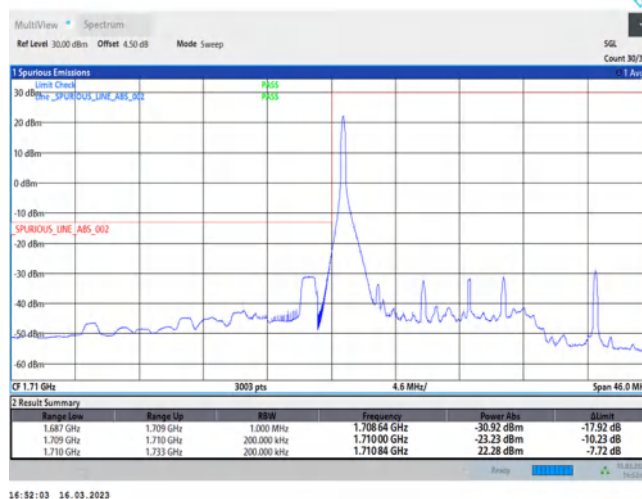
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66-66-15MHz-5MHz-QPSK-QPSK-132047-132140-1RB#0-0RB#0



66-66-15MHz-5MHz-QPSK-QPSK-132047-132140-75RB#0-25RB#0



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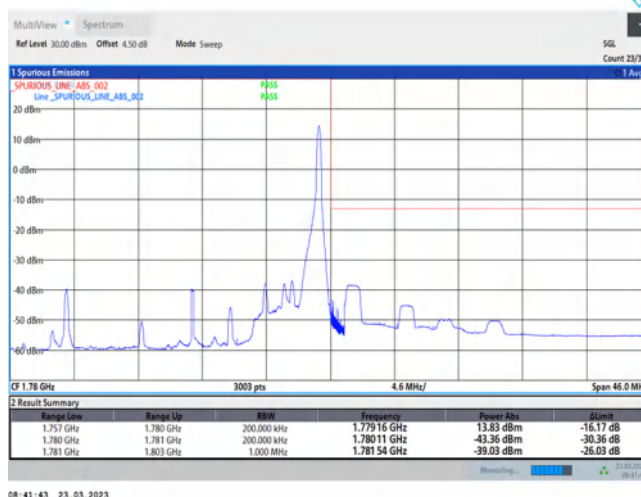
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66-66-15MHz-5MHz-QPSK-QPSK-132549-132642-0RB#0-1RB#24



08:41:43 23.03.2023

66-66-15MHz-5MHz-QPSK-QPSK-132549-132642-75RB#0-25RB#0



16:56:26 16.03.2023



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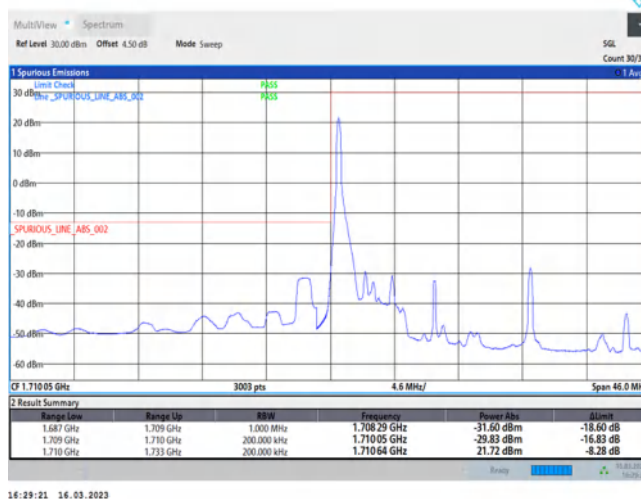
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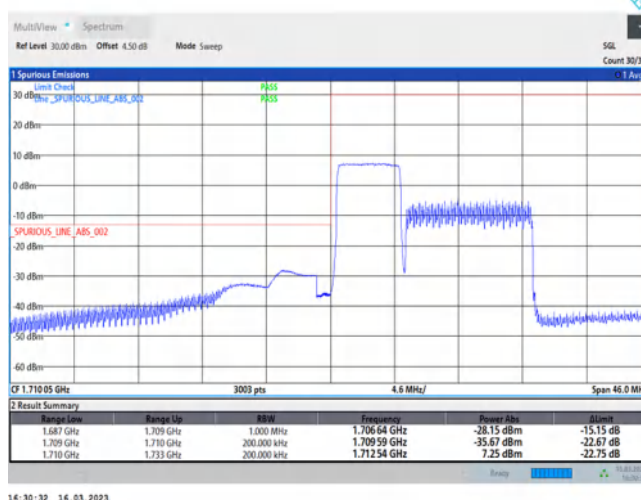
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66-66-5MHz-10MHz-QPSK-QPSK-132000-132072-1RB#0-0RB#0



16:29:21 16.03.2023

66-66-5MHz-10MHz-QPSK-QPSK-132000-132072-25RB#0-50RB#0



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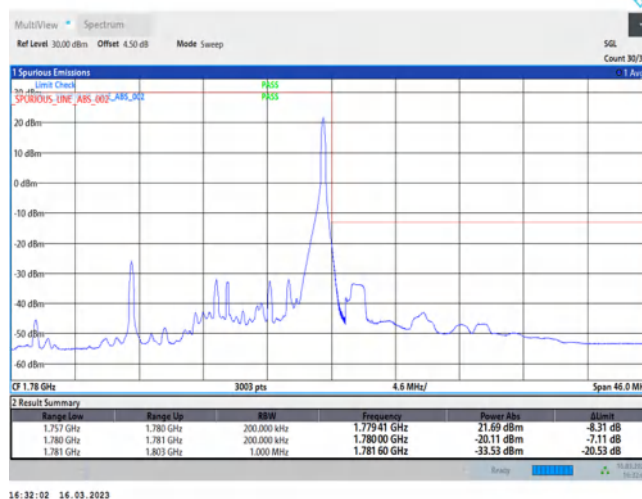
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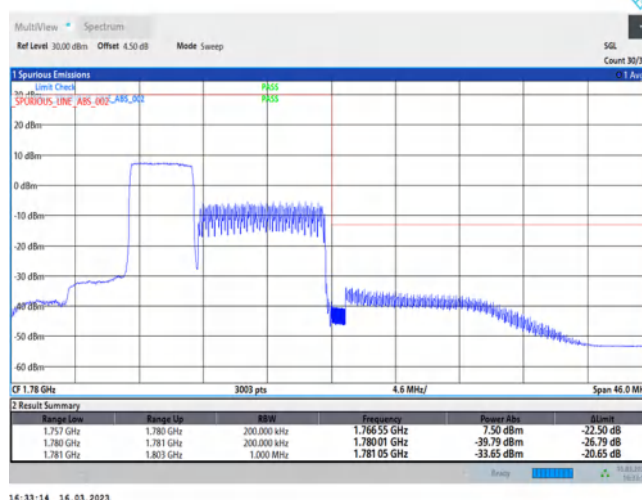
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66-66-5MHz-10MHz-QPSK-QPSK-132550-132622-0RB#0-1RB#49



16:32:02 16.03.2023

66-66-5MHz-10MHz-QPSK-QPSK-132550-132622-25RB#0-50RB#0



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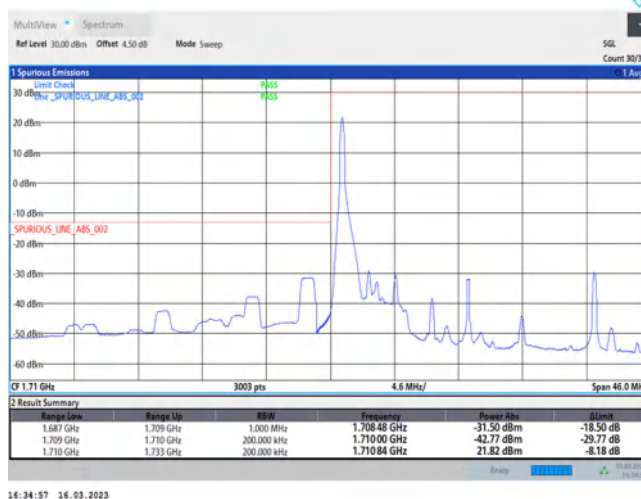
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66-66-5MHz-15MHz-QPSK-QPSK-132002-132095-1RB#0-0RB#0



66-66-5MHz-15MHz-QPSK-QPSK-132002-132095-25RB#0-75RB#0



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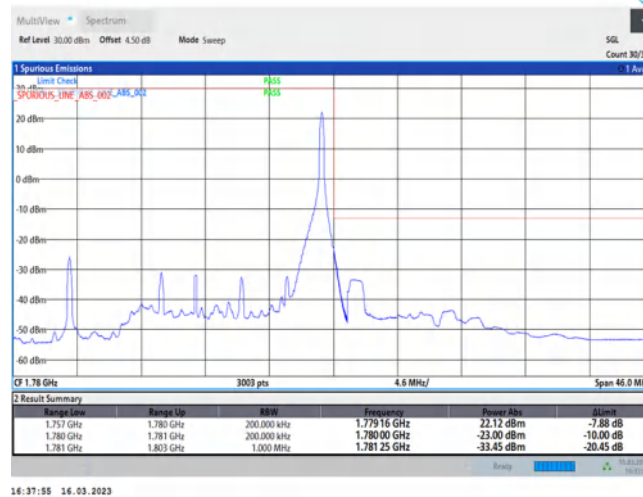
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66-66-5MHz-15MHz-QPSK-QPSK-132504-132597-0RB#0-1RB#74



66-66-5MHz-15MHz-QPSK-QPSK-132504-132597-25RB#0-75RB#0



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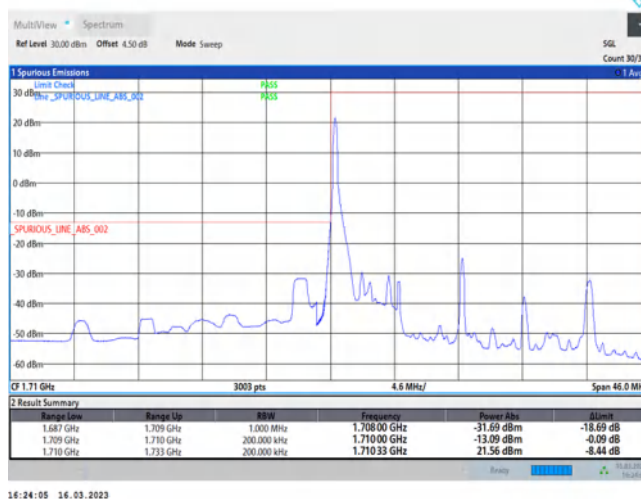
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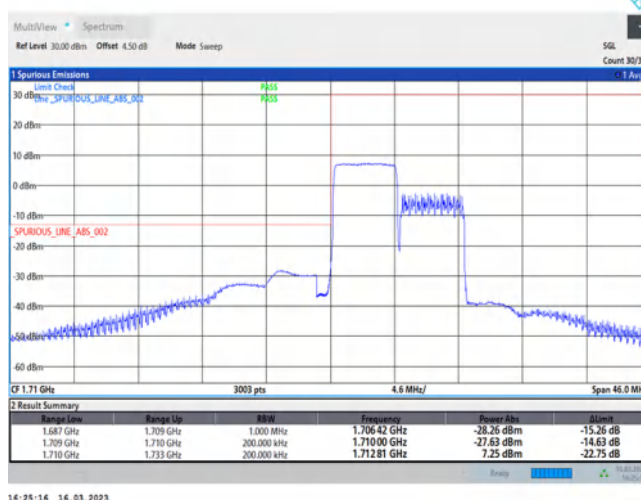
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66-66-5MHz-5MHz-QPSK-QPSK-131997-132045-1RB#0-0RB#0



66-66-5MHz-5MHz-QPSK-QPSK-131997-132045-25RB#0-25RB#0



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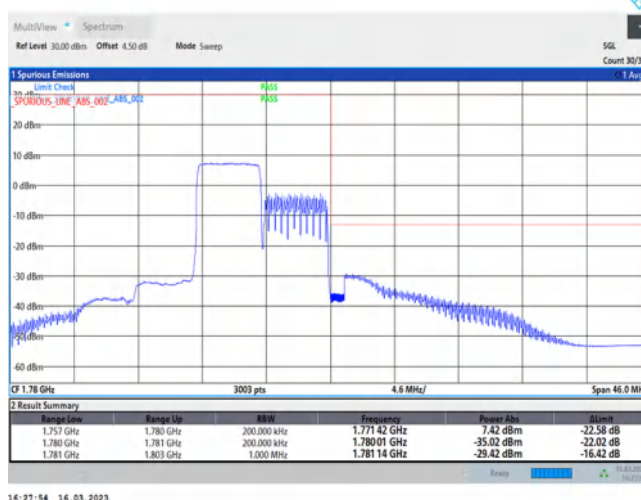
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66-66-5MHz-5MHz-QPSK-QPSK-132599-132647-0RB#0-1RB#24



15:50:53 16.03.2023

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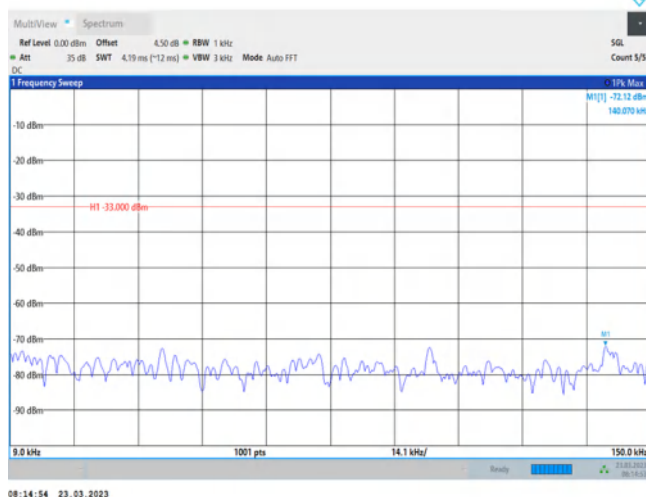
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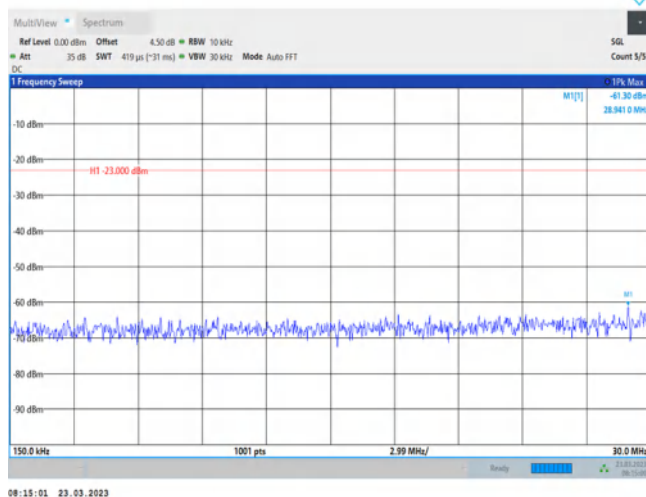
Conducted Spurious Emission

Test Graphs

66-66-10MHz-10MHz-QPSK-QPSK-132022-132121-1RB#0-0RB#0-0.009~0.15MHz



66-66-10MHz-10MHz-QPSK-QPSK-132022-132121-1RB#0-0RB#0-0.15~30MHz



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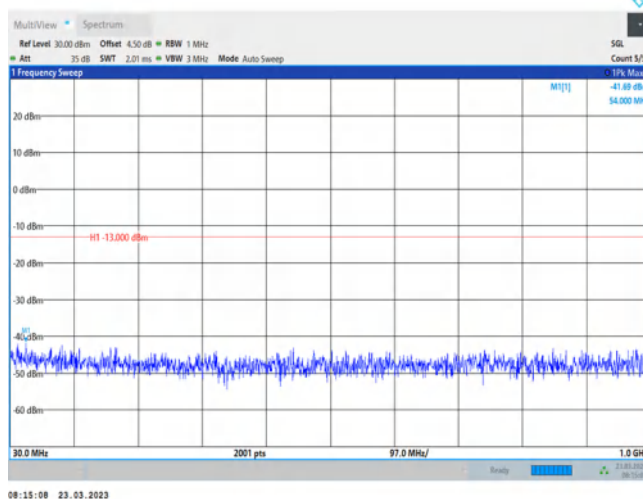
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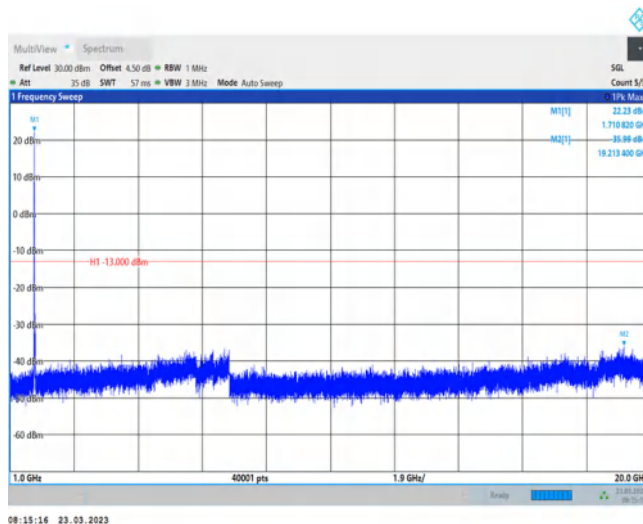
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66-66-10MHz-10MHz-QPSK-QPSK-132022-132121-1RB#0-0RB#0-1000~20000MHz



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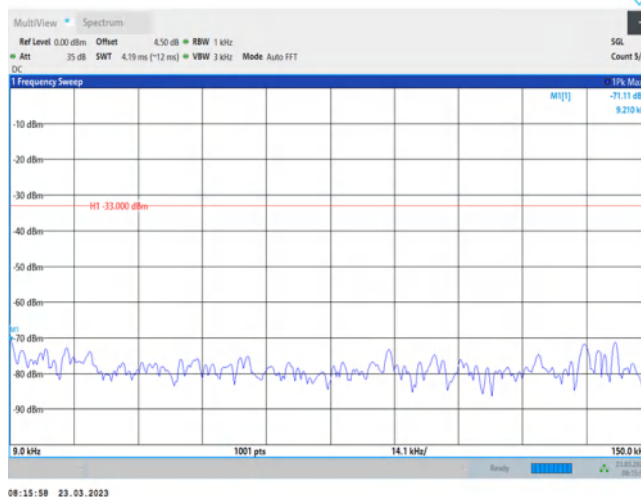
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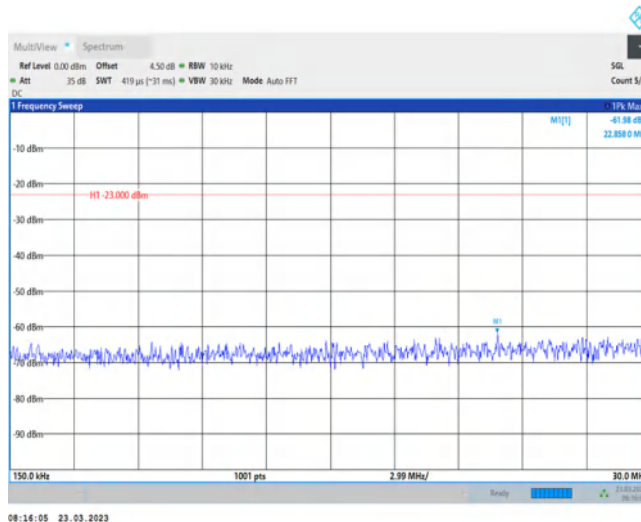
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66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-1RB#0-0RB#0-0.009~0.15MHz



66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-1RB#0-0RB#0-0.15~30MHz



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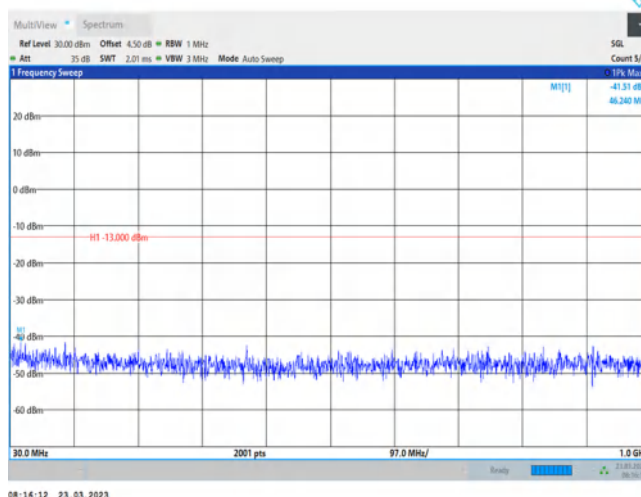
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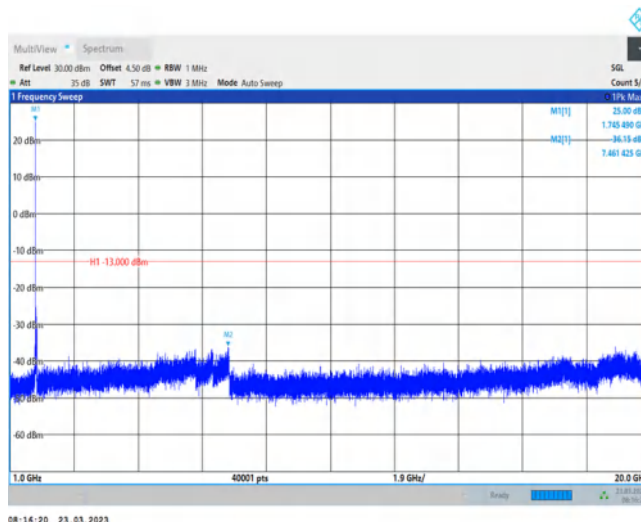
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66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-1RB#0-0RB#0-30~1000MHz



66-66-10MHz-10MHz-QPSK-QPSK-132373-132472-1RB#0-0RB#0-1000~20000MHz



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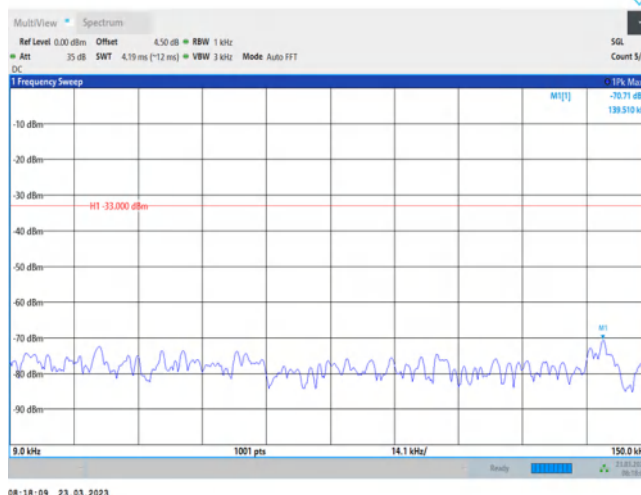
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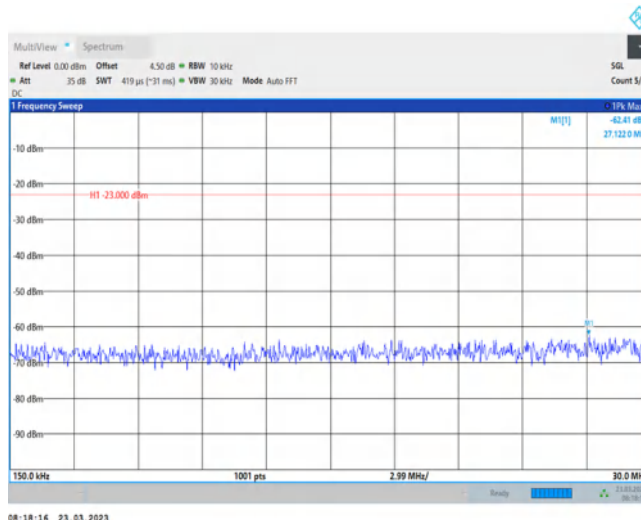
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66-66-10MHz-10MHz-QPSK-QPSK-132523-132622-1RB#0-0RB#0-0.009~0.15MHz



66-66-10MHz-10MHz-QPSK-QPSK-132523-132622-1RB#0-0RB#0-0.15~30MHz



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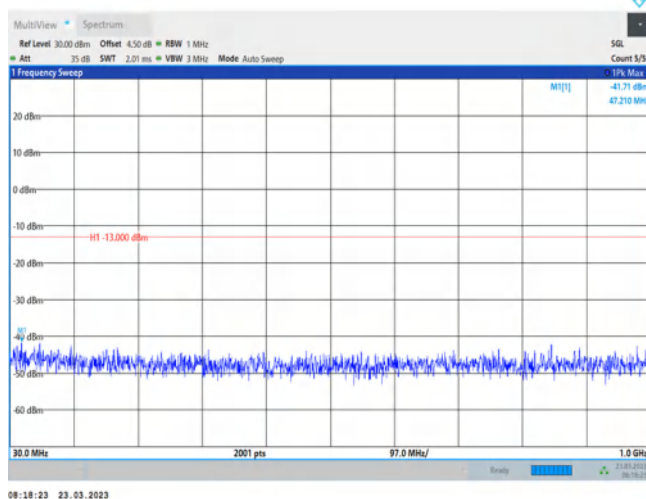
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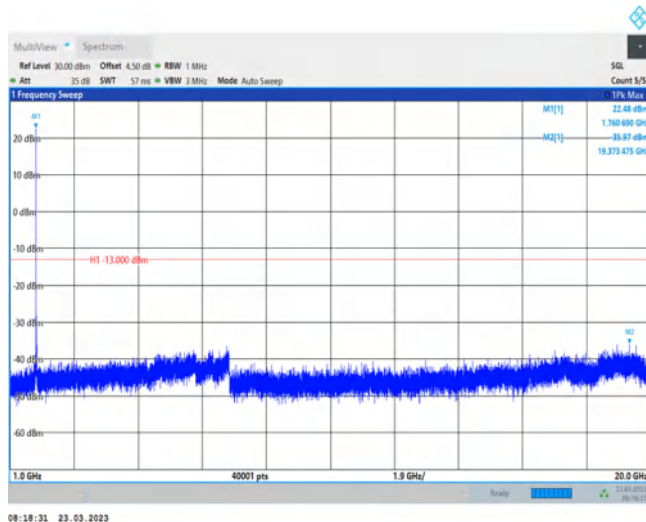
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66-66-10MHz-10MHz-QPSK-QPSK-132523-132622-1RB#0-0RB#0-30~1000MHz



66-66-10MHz-10MHz-QPSK-QPSK-132523-132622-1RB#0-0RB#0-1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 66B_ 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	3420.75	50.04	-46.28	29.45	-62.05	-13.00	49.05	241	44	Horizontal
2	5184.75	49.68	-45.29	32.98	-57.89	-13.00	44.89	223	226	Horizontal
3	6842.25	57.75	-44.14	35.89	-45.76	-13.00	32.76	309	353	Horizontal
4	8552.9500	43.26	-41.47	37.65	-55.82	-13.00	42.82	214	358	Horizontal
5	10263.5400	34.29	-39.24	38.83	-61.38	-13.00	48.38	145	240	Horizontal
6	11974.1300	31.58	-37.49	38.94	-62.23	-13.00	49.23	163	165	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	3421.5	54.47	-46.28	29.45	-57.62	-13.00	44.62	264	151	Vertical
2	5131.7700	44.60	-45.34	32.95	-63.05	-13.00	50.05	199	331	Vertical
3	6842.25	63.42	-44.14	35.89	-40.09	-13.00	27.09	268	120	Vertical
4	8552.9500	47.33	-41.47	37.65	-51.75	-13.00	38.75	142	91	Vertical
5	10263.5400	34.29	-39.24	38.83	-61.38	-13.00	48.38	155	257	Vertical
6	11974.1300	32.11	-37.49	38.94	-61.70	-13.00	48.70	262	91	Vertical



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Test Band = LTE Band 66B_ 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	3491.25	52.98	-46.26	29.51	-59.03	-13.00	46.03	309	44	Horizontal
2	5237.0700	46.58	-45.21	32.95	-60.93	-13.00	47.93	315	61	Horizontal
3	6982.5	58.64	-43.65	36.06	-44.21	-13.00	31.21	200	196	Horizontal
4	8728.4500	39.79	-41.56	37.96	-59.07	-13.00	46.07	158	358	Horizontal
5	10474.1400	34.68	-38.85	38.93	-60.50	-13.00	47.50	219	44	Horizontal
6	12219.8300	32.97	-37.47	39.12	-60.64	-13.00	47.64	281	360	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	3491.25	56.60	-46.26	29.51	-55.41	-13.00	42.41	247	73	Vertical
2	5237.0700	48.99	-45.21	32.95	-58.52	-13.00	45.52	163	118	Vertical
3	6982.5	63.12	-43.65	36.06	-39.73	-13.00	26.73	241	270	Vertical
4	8728.4500	43.78	-41.56	37.96	-55.08	-13.00	42.08	203	104	Vertical
5	10474.1400	35.45	-38.85	38.93	-59.73	-13.00	46.73	136	343	Vertical
6	12219.8300	34.14	-37.47	39.12	-59.47	-13.00	46.47	174	118	Vertical



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Test Band = LTE Band 66B_ 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	3521.25	50.07	-46.23	29.54	-61.88	-13.00	48.88	275	120	Horizontal
2	5282.0700	44.00	-45.12	32.91	-63.47	-13.00	50.47	164	60	Horizontal
3	7042.5	58.02	-43.83	36.19	-44.88	-13.00	31.88	184	353	Horizontal
4	8803.4500	39.14	-41.25	38.08	-59.29	-13.00	46.29	162	178	Horizontal
5	10564.1400	34.59	-38.59	39.02	-60.23	-13.00	47.23	308	353	Horizontal
6	12324.8300	32.32	-37.45	39.09	-61.30	-13.00	48.30	157	344	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	3521.25	51.59	-46.23	29.54	-60.36	-13.00	47.36	244	91	Vertical
2	5282.0700	46.86	-45.12	32.91	-60.61	-13.00	47.61	167	105	Vertical
3	7042.5	63.00	-43.83	36.19	-39.90	-13.00	26.90	295	271	Vertical
4	8803.4500	39.05	-41.25	38.08	-59.38	-13.00	46.38	163	105	Vertical
5	10564.1400	34.43	-38.59	39.02	-60.39	-13.00	47.39	224	227	Vertical
6	12324.8300	32.74	-37.45	39.09	-60.88	-13.00	47.88	175	60	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
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	VH	NT	19.50	0.01114 2	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	VL	NT	20.40	0.01165 6	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	VN	NT	20.90	0.01194 2	PASS



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Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	50	15.70	0.008971	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	40	16.40	0.009371	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	30	17.70	0.010114	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	20	17.70	0.010114	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	10	18.40	0.010514	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	0	18.80	0.010742	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	-10	20.90	0.011942	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	-20	19.30	0.011028	PASS
66-66	10MHz-10MHz	QPSK -QPSK	132373-132472	50RB#0-50RB#0	NV	-30	19.10	0.010914	PASS

---End of Attachment---



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