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Appendix B.17

LTE Band 66



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	22.12	21.8	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	22.28	21.96	30	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	22.3	21.98	30	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	21.34	21.02	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	22.28	21.96	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	22.41	22.09	30	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	22.23	21.91	30	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	21.4	21.08	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	22.13	21.81	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	22.3	21.98	30	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	22.29	21.97	30	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	21.24	20.92	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	21.53	21.21	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	21.63	21.31	30	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	21.69	21.37	30	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	20.57	20.25	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.61	21.29	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	21.68	21.36	30	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	21.68	21.36	30	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	20.6	20.28	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.72	21.4	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	21.31	20.99	30	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	21.41	21.09	30	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	20.3	19.98	30	PASS
Band66	1.4MHz	64QAM	131979	1RB#0	20.54	20.22	30	PASS
Band66	1.4MHz	64QAM	131979	1RB#2	20.72	20.4	30	PASS
Band66	1.4MHz	64QAM	131979	1RB#5	20.54	20.22	30	PASS
Band66	1.4MHz	64QAM	131979	6RB#0	19.47	19.15	30	PASS
Band66	1.4MHz	64QAM	132322	1RB#0	20.74	20.42	30	PASS
Band66	1.4MHz	64QAM	132322	1RB#2	20.88	20.56	30	PASS





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Band66	1.4MHz	64QAM	132322	1RB#5	20.84	20.52	30	PASS
Band66	1.4MHz	64QAM	132322	6RB#0	19.7	19.38	30	PASS
Band66	1.4MHz	64QAM	132665	1RB#0	20.56	20.24	30	PASS
Band66	1.4MHz	64QAM	132665	1RB#2	20.49	20.17	30	PASS
Band66	1.4MHz	64QAM	132665	1RB#5	20.47	20.15	30	PASS
Band66	1.4MHz	64QAM	132665	6RB#0	19.34	19.02	30	PASS
Band66	3MHz	QPSK	131987	1RB#0	22.23	21.91	30	PASS
Band66	3MHz	QPSK	131987	1RB#8	22.24	21.92	30	PASS
Band66	3MHz	QPSK	131987	1RB#14	22.2	21.88	30	PASS
Band66	3MHz	QPSK	131987	15RB#0	21.35	21.03	30	PASS
Band66	3MHz	QPSK	132322	1RB#0	22.53	22.21	30	PASS
Band66	3MHz	QPSK	132322	1RB#8	22.59	22.27	30	PASS
Band66	3MHz	QPSK	132322	1RB#14	22.48	22.16	30	PASS
Band66	3MHz	QPSK	132322	15RB#0	21.48	21.16	30	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.38	22.06	30	PASS
Band66	3MHz	QPSK	132657	1RB#8	22.54	22.22	30	PASS
Band66	3MHz	QPSK	132657	1RB#14	22.37	22.05	30	PASS
Band66	3MHz	QPSK	132657	15RB#0	21.25	20.93	30	PASS
Band66	3MHz	16QAM	131987	1RB#0	21.58	21.26	30	PASS
Band66	3MHz	16QAM	131987	1RB#8	21.65	21.33	30	PASS
Band66	3MHz	16QAM	131987	1RB#14	21.46	21.14	30	PASS
Band66	3MHz	16QAM	131987	15RB#0	20.4	20.08	30	PASS
Band66	3MHz	16QAM	132322	1RB#0	21.84	21.52	30	PASS
Band66	3MHz	16QAM	132322	1RB#8	21.61	21.29	30	PASS
Band66	3MHz	16QAM	132322	1RB#14	21.79	21.47	30	PASS
Band66	3MHz	16QAM	132322	15RB#0	20.51	20.19	30	PASS
Band66	3MHz	16QAM	132657	1RB#0	21.36	21.04	30	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.83	21.51	30	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.65	21.33	30	PASS
Band66	3MHz	16QAM	132657	15RB#0	20.26	19.94	30	PASS
Band66	3MHz	64QAM	131987	1RB#0	20.73	20.41	30	PASS
Band66	3MHz	64QAM	131987	1RB#8	20.73	20.41	30	PASS
Band66	3MHz	64QAM	131987	1RB#14	20.52	20.2	30	PASS
Band66	3MHz	64QAM	131987	15RB#0	19.49	19.17	30	PASS
Band66	3MHz	64QAM	132322	1RB#0	20.87	20.55	30	PASS
Band66	3MHz	64QAM	132322	1RB#8	20.78	20.46	30	PASS
Band66	3MHz	64QAM	132322	1RB#14	20.7	20.38	30	PASS
Band66	3MHz	64QAM	132322	15RB#0	19.65	19.33	30	PASS



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Band66	3MHz	64QAM	132657	1RB#0	20.74	20.42	30	PASS
Band66	3MHz	64QAM	132657	1RB#8	20.6	20.28	30	PASS
Band66	3MHz	64QAM	132657	1RB#14	20.47	20.15	30	PASS
Band66	3MHz	64QAM	132657	15RB#0	19.35	19.03	30	PASS
Band66	5MHz	QPSK	131997	1RB#0	22.45	22.13	30	PASS
Band66	5MHz	QPSK	131997	1RB#12	22.32	22	30	PASS
Band66	5MHz	QPSK	131997	1RB#24	22.33	22.01	30	PASS
Band66	5MHz	QPSK	131997	25RB#0	21.32	21	30	PASS
Band66	5MHz	QPSK	132322	1RB#0	22.44	22.12	30	PASS
Band66	5MHz	QPSK	132322	1RB#12	22.63	22.31	30	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.41	22.09	30	PASS
Band66	5MHz	QPSK	132322	25RB#0	21.48	21.16	30	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.24	21.92	30	PASS
Band66	5MHz	QPSK	132647	1RB#12	22.29	21.97	30	PASS
Band66	5MHz	QPSK	132647	1RB#24	22.3	21.98	30	PASS
Band66	5MHz	QPSK	132647	25RB#0	21.43	21.11	30	PASS
Band66	5MHz	16QAM	131997	1RB#0	21.63	21.31	30	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.63	21.31	30	PASS
Band66	5MHz	16QAM	131997	1RB#24	21.54	21.22	30	PASS
Band66	5MHz	16QAM	131997	25RB#0	20.37	20.05	30	PASS
Band66	5MHz	16QAM	132322	1RB#0	21.87	21.55	30	PASS
Band66	5MHz	16QAM	132322	1RB#12	21.64	21.32	30	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.65	21.33	30	PASS
Band66	5MHz	16QAM	132322	25RB#0	20.6	20.28	30	PASS
Band66	5MHz	16QAM	132647	1RB#0	22.03	21.71	30	PASS
Band66	5MHz	16QAM	132647	1RB#12	21.44	21.12	30	PASS
Band66	5MHz	16QAM	132647	1RB#24	21.41	21.09	30	PASS
Band66	5MHz	16QAM	132647	25RB#0	20.49	20.17	30	PASS
Band66	5MHz	64QAM	131997	1RB#0	20.83	20.51	30	PASS
Band66	5MHz	64QAM	131997	1RB#12	20.75	20.43	30	PASS
Band66	5MHz	64QAM	131997	1RB#24	20.68	20.36	30	PASS
Band66	5MHz	64QAM	131997	25RB#0	19.57	19.25	30	PASS
Band66	5MHz	64QAM	132322	1RB#0	20.93	20.61	30	PASS
Band66	5MHz	64QAM	132322	1RB#12	20.88	20.56	30	PASS
Band66	5MHz	64QAM	132322	1RB#24	20.73	20.41	30	PASS
Band66	5MHz	64QAM	132322	25RB#0	19.66	19.34	30	PASS
Band66	5MHz	64QAM	132647	1RB#0	20.76	20.44	30	PASS
Band66	5MHz	64QAM	132647	1RB#12	20.54	20.22	30	PASS



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Band66	5MHz	64QAM	132647	1RB#24	20.51	20.19	30	PASS
Band66	5MHz	64QAM	132647	25RB#0	19.47	19.15	30	PASS
Band66	10MHz	QPSK	132022	1RB#0	21.8	21.48	30	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.22	21.9	30	PASS
Band66	10MHz	QPSK	132022	1RB#49	22.85	22.53	30	PASS
Band66	10MHz	QPSK	132022	50RB#0	21.52	21.2	30	PASS
Band66	10MHz	QPSK	132322	1RB#0	21.88	21.56	30	PASS
Band66	10MHz	QPSK	132322	1RB#24	22.4	22.08	30	PASS
Band66	10MHz	QPSK	132322	1RB#49	22.73	22.41	30	PASS
Band66	10MHz	QPSK	132322	50RB#0	21.52	21.2	30	PASS
Band66	10MHz	QPSK	132622	1RB#0	21.71	21.39	30	PASS
Band66	10MHz	QPSK	132622	1RB#24	22.19	21.87	30	PASS
Band66	10MHz	QPSK	132622	1RB#49	22.56	22.24	30	PASS
Band66	10MHz	QPSK	132622	50RB#0	21.45	21.13	30	PASS
Band66	10MHz	16QAM	132022	1RB#0	21.04	20.72	30	PASS
Band66	10MHz	16QAM	132022	1RB#24	21.64	21.32	30	PASS
Band66	10MHz	16QAM	132022	1RB#49	22.08	21.76	30	PASS
Band66	10MHz	16QAM	132022	50RB#0	20.57	20.25	30	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.06	20.74	30	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.77	21.45	30	PASS
Band66	10MHz	16QAM	132322	1RB#49	21.97	21.65	30	PASS
Band66	10MHz	16QAM	132322	50RB#0	20.55	20.23	30	PASS
Band66	10MHz	16QAM	132622	1RB#0	20.97	20.65	30	PASS
Band66	10MHz	16QAM	132622	1RB#24	21.65	21.33	30	PASS
Band66	10MHz	16QAM	132622	1RB#49	21.93	21.61	30	PASS
Band66	10MHz	16QAM	132622	50RB#0	20.5	20.18	30	PASS
Band66	10MHz	64QAM	132022	1RB#0	19.98	19.66	30	PASS
Band66	10MHz	64QAM	132022	1RB#24	20.67	20.35	30	PASS
Band66	10MHz	64QAM	132022	1RB#49	21.15	20.83	30	PASS
Band66	10MHz	64QAM	132022	50RB#0	19.57	19.25	30	PASS
Band66	10MHz	64QAM	132322	1RB#0	20.23	19.91	30	PASS
Band66	10MHz	64QAM	132322	1RB#24	20.75	20.43	30	PASS
Band66	10MHz	64QAM	132322	1RB#49	21.06	20.74	30	PASS
Band66	10MHz	64QAM	132322	50RB#0	19.7	19.38	30	PASS
Band66	10MHz	64QAM	132622	1RB#0	20.08	19.76	30	PASS
Band66	10MHz	64QAM	132622	1RB#24	20.61	20.29	30	PASS
Band66	10MHz	64QAM	132622	1RB#49	20.96	20.64	30	PASS
Band66	10MHz	64QAM	132622	50RB#0	19.6	19.28	30	PASS



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Band66	15MHz	QPSK	132047	1RB#0	22.62	22.3	30	PASS
Band66	15MHz	QPSK	132047	1RB#38	22.3	21.98	30	PASS
Band66	15MHz	QPSK	132047	1RB#74	22.82	22.5	30	PASS
Band66	15MHz	QPSK	132047	75RB#0	21.34	21.02	30	PASS
Band66	15MHz	QPSK	132322	1RB#0	22.54	22.22	30	PASS
Band66	15MHz	QPSK	132322	1RB#38	22.47	22.15	30	PASS
Band66	15MHz	QPSK	132322	1RB#74	22.52	22.2	30	PASS
Band66	15MHz	QPSK	132322	75RB#0	21.35	21.03	30	PASS
Band66	15MHz	QPSK	132597	1RB#0	22.56	22.24	30	PASS
Band66	15MHz	QPSK	132597	1RB#38	22.36	22.04	30	PASS
Band66	15MHz	QPSK	132597	1RB#74	22.4	22.08	30	PASS
Band66	15MHz	QPSK	132597	75RB#0	21.35	21.03	30	PASS
Band66	15MHz	16QAM	132047	1RB#0	21.75	21.43	30	PASS
Band66	15MHz	16QAM	132047	1RB#38	21.7	21.38	30	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.65	21.33	30	PASS
Band66	15MHz	16QAM	132047	75RB#0	20.38	20.06	30	PASS
Band66	15MHz	16QAM	132322	1RB#0	21.9	21.58	30	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.74	21.42	30	PASS
Band66	15MHz	16QAM	132322	1RB#74	21.77	21.45	30	PASS
Band66	15MHz	16QAM	132322	75RB#0	20.37	20.05	30	PASS
Band66	15MHz	16QAM	132597	1RB#0	21.96	21.64	30	PASS
Band66	15MHz	16QAM	132597	1RB#38	21.51	21.19	30	PASS
Band66	15MHz	16QAM	132597	1RB#74	21.44	21.12	30	PASS
Band66	15MHz	16QAM	132597	75RB#0	20.28	19.96	30	PASS
Band66	15MHz	64QAM	132047	1RB#0	21.05	20.73	30	PASS
Band66	15MHz	64QAM	132047	1RB#38	20.56	20.24	30	PASS
Band66	15MHz	64QAM	132047	1RB#74	21	20.68	30	PASS
Band66	15MHz	64QAM	132047	75RB#0	19.51	19.19	30	PASS
Band66	15MHz	64QAM	132322	1RB#0	21.11	20.79	30	PASS
Band66	15MHz	64QAM	132322	1RB#38	20.68	20.36	30	PASS
Band66	15MHz	64QAM	132322	1RB#74	20.93	20.61	30	PASS
Band66	15MHz	64QAM	132322	75RB#0	19.58	19.26	30	PASS
Band66	15MHz	64QAM	132597	1RB#0	20.93	20.61	30	PASS
Band66	15MHz	64QAM	132597	1RB#38	20.52	20.2	30	PASS
Band66	15MHz	64QAM	132597	1RB#74	20.49	20.17	30	PASS
Band66	15MHz	64QAM	132597	75RB#0	19.41	19.09	30	PASS
Band66	20MHz	QPSK	132072	1RB#0	22.26	21.94	30	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.37	22.05	30	PASS



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Band66	20MHz	QPSK	132072	1RB#99	22.9	22.58	30	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.4	21.08	30	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.79	22.47	30	PASS
Band66	20MHz	QPSK	132322	1RB#49	22.64	22.32	30	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.75	22.43	30	PASS
Band66	20MHz	QPSK	132322	100RB#0	21.4	21.08	30	PASS
Band66	20MHz	QPSK	132572	1RB#0	22.72	22.4	30	PASS
Band66	20MHz	QPSK	132572	1RB#49	22.47	22.15	30	PASS
Band66	20MHz	QPSK	132572	1RB#99	22.64	22.32	30	PASS
Band66	20MHz	QPSK	132572	100RB#0	21.45	21.13	30	PASS
Band66	20MHz	16QAM	132072	1RB#0	21.43	21.11	30	PASS
Band66	20MHz	16QAM	132072	1RB#49	21.77	21.45	30	PASS
Band66	20MHz	16QAM	132072	1RB#99	22	21.68	30	PASS
Band66	20MHz	16QAM	132072	100RB#0	20.44	20.12	30	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.71	21.39	30	PASS
Band66	20MHz	16QAM	132322	1RB#49	21.46	21.14	30	PASS
Band66	20MHz	16QAM	132322	1RB#99	22.02	21.7	30	PASS
Band66	20MHz	16QAM	132322	100RB#0	20.29	19.97	30	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.48	21.16	30	PASS
Band66	20MHz	16QAM	132572	1RB#49	21.45	21.13	30	PASS
Band66	20MHz	16QAM	132572	1RB#99	21.88	21.56	30	PASS
Band66	20MHz	16QAM	132572	100RB#0	20.4	20.08	30	PASS
Band66	20MHz	64QAM	132072	1RB#0	20.51	20.19	30	PASS
Band66	20MHz	64QAM	132072	1RB#49	20.46	20.14	30	PASS
Band66	20MHz	64QAM	132072	1RB#99	21.18	20.86	30	PASS
Band66	20MHz	64QAM	132072	100RB#0	19.63	19.31	30	PASS
Band66	20MHz	64QAM	132322	1RB#0	20.62	20.3	30	PASS
Band66	20MHz	64QAM	132322	1RB#49	20.63	20.31	30	PASS
Band66	20MHz	64QAM	132322	1RB#99	21	20.68	30	PASS
Band66	20MHz	64QAM	132322	100RB#0	19.56	19.24	30	PASS
Band66	20MHz	64QAM	132572	1RB#0	20.72	20.4	30	PASS
Band66	20MHz	64QAM	132572	1RB#49	20.59	20.27	30	PASS
Band66	20MHz	64QAM	132572	1RB#99	20.83	20.51	30	PASS
Band66	20MHz	64QAM	132572	100RB#0	19.49	19.17	30	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	100RB#0	5.10	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.04	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.01	13	PASS
Band66	20MHz	16QAM	132072	100RB#0	5.88	13	PASS
Band66	20MHz	16QAM	132322	100RB#0	5.94	13	PASS
Band66	20MHz	16QAM	132572	100RB#0	5.94	13	PASS
Band66	20MHz	64QAM	132072	100RB#0	6.35	13	PASS
Band66	20MHz	64QAM	132322	100RB#0	6.29	13	PASS
Band66	20MHz	64QAM	132572	100RB#0	6.26	13	PASS



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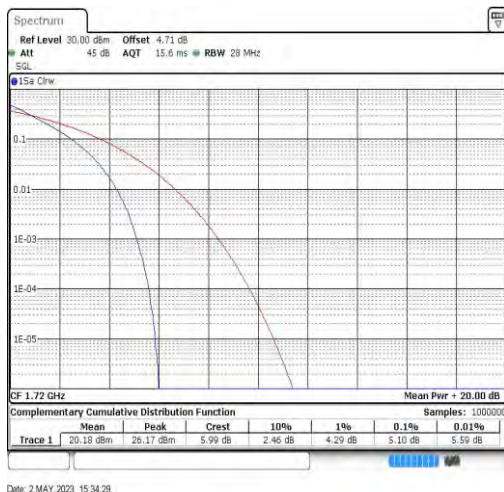


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Test Graphs



Band66-20MHz-QPSK-132072-100RB#0



Band66-20MHz-QPSK-132322-100RB#0

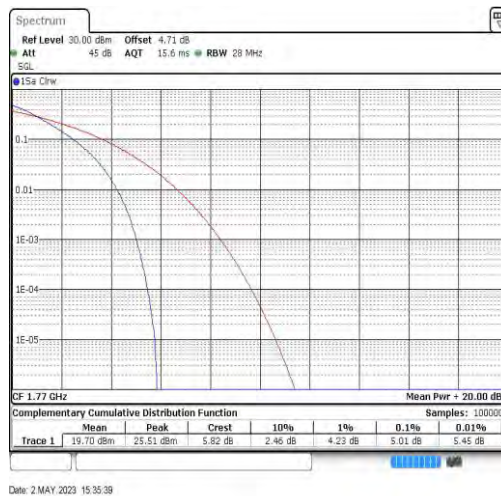




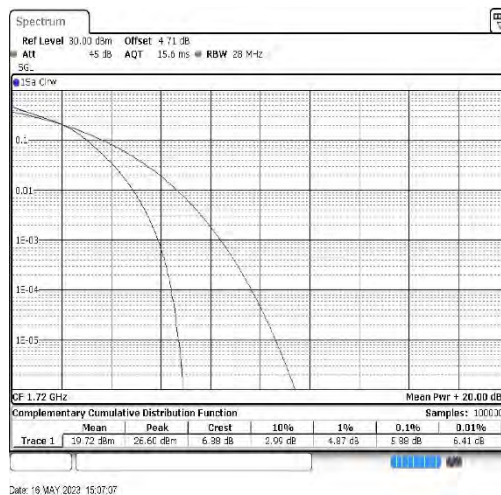
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Band66-20MHz-QPSK-132572-100RB#0



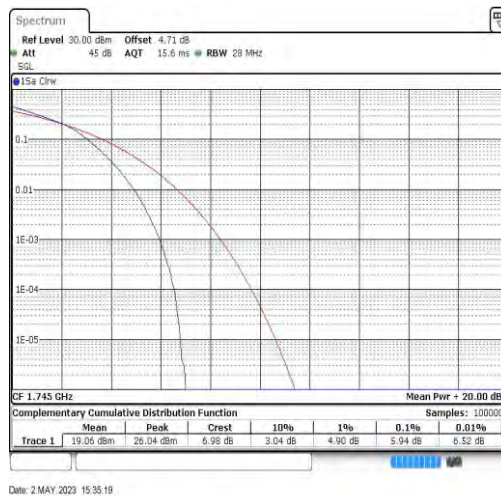
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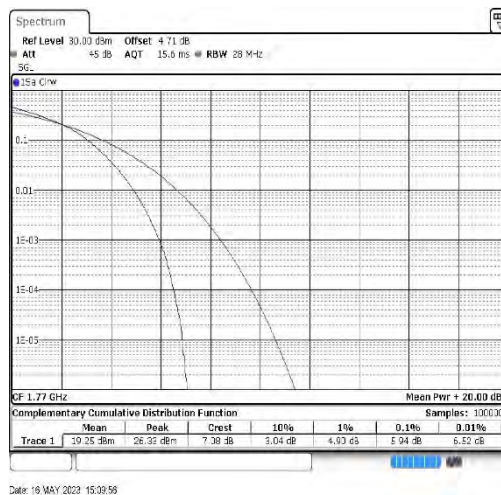
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Band66-20MHz-16QAM-132322-100RB#0



Band66-20MHz-16QAM-132572-100RB#0



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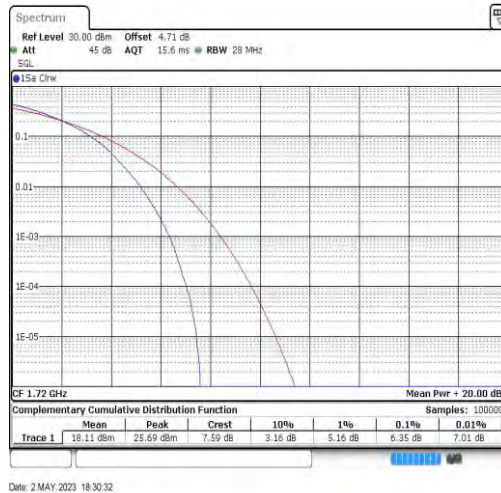
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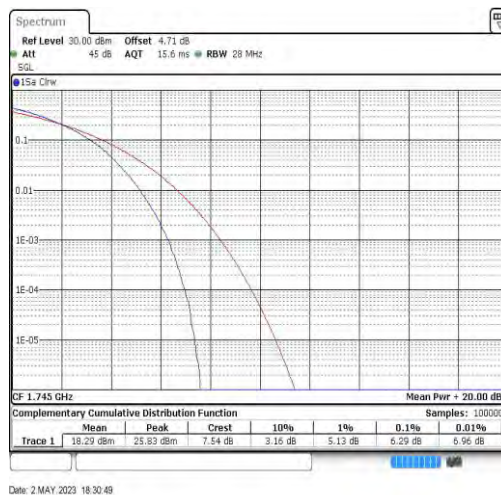
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Band66-20MHz-64QAM-132072-100RB#0



Band66-20MHz-64QAM-132322-100RB#0

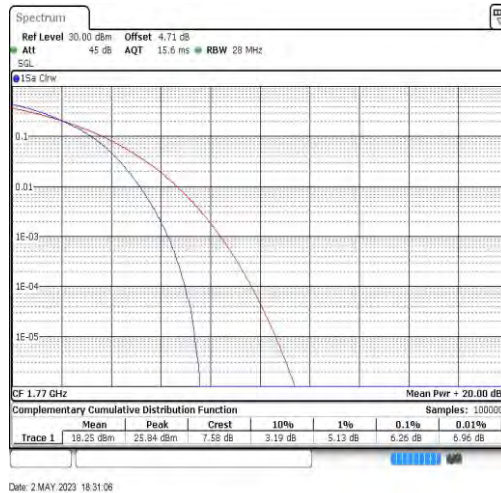




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Band66-20MHz-64QAM-132572-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band66	20MHz	QPSK	132272	100RB#0	PASS	PASS
Band66	20MHz	16QAM	132272	100RB#0	PASS	PASS
Band66	20MHz	64QAM	132272	100RB#0	PASS	PASS



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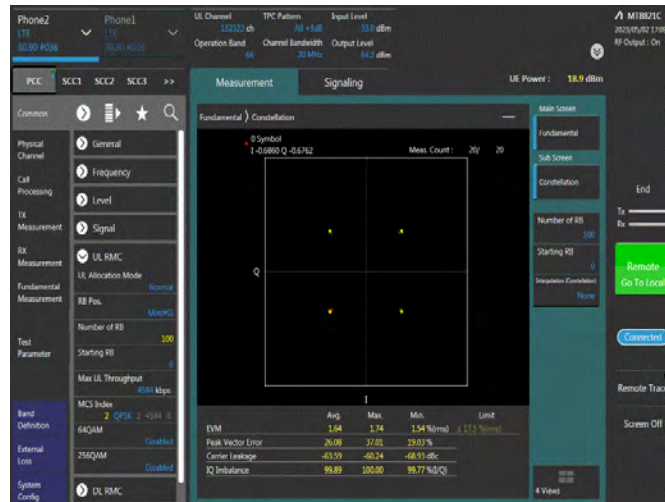
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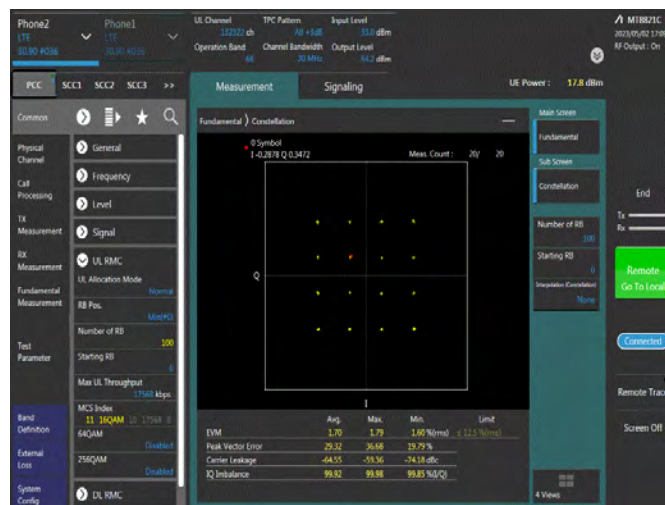
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Test Graphs



Band66-20MHz-QPSK-132272-100RB#0



Band66-20MHz-16QAM-132272-100RB#0

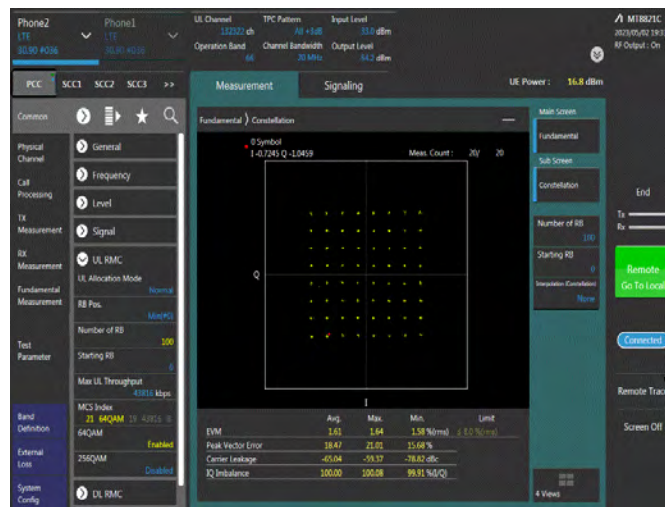


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Band66-20MHz-64QAM-132272-100RB#0





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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band66	1.4MHz	QPSK	131979	6RB#0	1.088	1.28	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.091	1.28	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.091	1.28	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	1.097	1.29	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	1.1	1.30	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	1.097	1.29	PASS
Band66	1.4MHz	64QAM	131979	6RB#0	1.091	1.30	PASS
Band66	1.4MHz	64QAM	132322	6RB#0	1.097	1.29	PASS
Band66	1.4MHz	64QAM	132665	6RB#0	1.097	1.30	PASS
Band66	3MHz	QPSK	131987	15RB#0	2.691	2.99	PASS
Band66	3MHz	QPSK	132322	15RB#0	2.697	2.96	PASS
Band66	3MHz	QPSK	132657	15RB#0	2.691	2.97	PASS
Band66	3MHz	16QAM	131987	15RB#0	2.691	2.99	PASS
Band66	3MHz	16QAM	132322	15RB#0	2.685	2.98	PASS
Band66	3MHz	16QAM	132657	15RB#0	2.691	2.98	PASS
Band66	3MHz	64QAM	131987	15RB#0	2.685	2.97	PASS
Band66	3MHz	64QAM	132322	15RB#0	2.685	2.95	PASS
Band66	3MHz	64QAM	132657	15RB#0	2.685	2.92	PASS
Band66	5MHz	QPSK	131997	25RB#0	4.466	4.90	PASS
Band66	5MHz	QPSK	132322	25RB#0	4.476	4.90	PASS
Band66	5MHz	QPSK	132647	25RB#0	4.476	4.91	PASS
Band66	5MHz	16QAM	131997	25RB#0	4.466	4.94	PASS
Band66	5MHz	16QAM	132322	25RB#0	4.466	4.95	PASS
Band66	5MHz	16QAM	132647	25RB#0	4.466	4.95	PASS
Band66	5MHz	64QAM	131997	25RB#0	4.476	4.89	PASS
Band66	5MHz	64QAM	132322	25RB#0	4.476	4.92	PASS
Band66	5MHz	64QAM	132647	25RB#0	4.486	4.93	PASS
Band66	10MHz	QPSK	132022	50RB#0	8.931	9.64	PASS
Band66	10MHz	QPSK	132322	50RB#0	8.951	9.66	PASS



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Band66	10MHz	QPSK	132622	50RB#0	8.911	9.72	PASS
Band66	10MHz	16QAM	132022	50RB#0	8.911	9.68	PASS
Band66	10MHz	16QAM	132322	50RB#0	8.911	9.74	PASS
Band66	10MHz	16QAM	132622	50RB#0	8.911	9.68	PASS
Band66	10MHz	64QAM	132022	50RB#0	8.911	9.62	PASS
Band66	10MHz	64QAM	132322	50RB#0	8.931	9.72	PASS
Band66	10MHz	64QAM	132622	50RB#0	8.931	9.66	PASS
Band66	15MHz	QPSK	132047	75RB#0	13.457	14.67	PASS
Band66	15MHz	QPSK	132322	75RB#0	13.457	14.79	PASS
Band66	15MHz	QPSK	132597	75RB#0	13.546	14.46	PASS
Band66	15MHz	16QAM	132047	75RB#0	13.457	14.79	PASS
Band66	15MHz	16QAM	132322	75RB#0	13.457	14.85	PASS
Band66	15MHz	16QAM	132597	75RB#0	13.457	14.76	PASS
Band66	15MHz	64QAM	132047	75RB#0	13.427	14.61	PASS
Band66	15MHz	64QAM	132322	75RB#0	13.427	14.70	PASS
Band66	15MHz	64QAM	132597	75RB#0	13.397	14.73	PASS
Band66	20MHz	QPSK	132072	100RB#0	17.942	19.36	PASS
Band66	20MHz	QPSK	132322	100RB#0	17.902	19.48	PASS
Band66	20MHz	QPSK	132572	100RB#0	17.902	19.48	PASS
Band66	20MHz	16QAM	132072	100RB#0	17.902	19.48	PASS
Band66	20MHz	16QAM	132322	100RB#0	17.862	19.48	PASS
Band66	20MHz	16QAM	132572	100RB#0	17.862	19.40	PASS
Band66	20MHz	64QAM	132072	100RB#0	17.862	19.40	PASS
Band66	20MHz	64QAM	132322	100RB#0	17.902	19.48	PASS
Band66	20MHz	64QAM	132572	100RB#0	17.862	19.44	PASS



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Test Graphs



Band66-1.4MHz-QPSK-131979-6RB#0-1.088



Band66-1.4MHz-QPSK-132322-6RB#0-1.091



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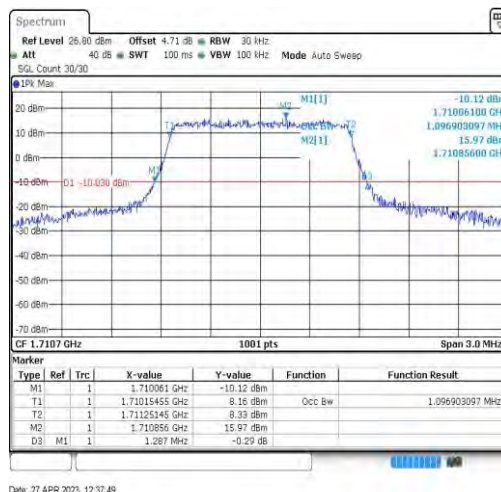
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Band66-1.4MHz-QPSK-132665-6RB#0-1.091



Date: 27 APR 2023 12:37:49

Band66-1.4MHz-16QAM-131979-6RB#0-1.097



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Band66-1.4MHz-16QAM-132322-6RB#0-1.1



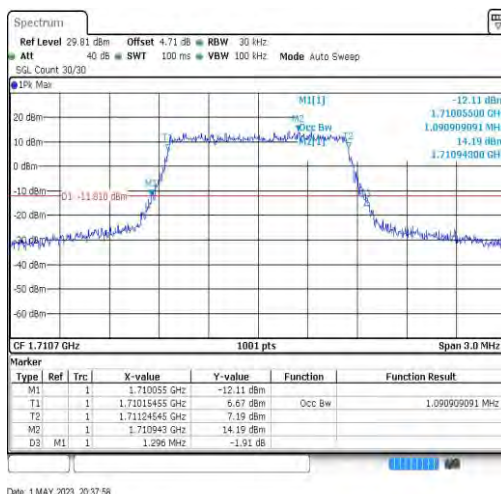
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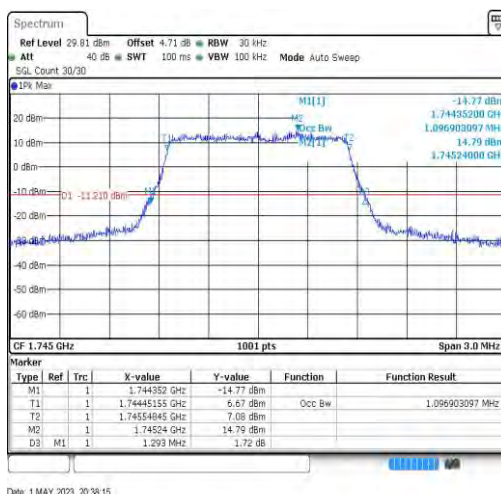
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Band66-1.4MHz-64QAM-131979-6RB#0-1.091



Band66-1.4MHz-64QAM-132322-6RB#0-1.097



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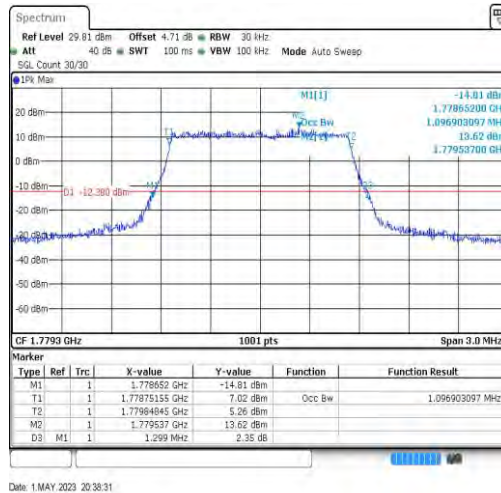
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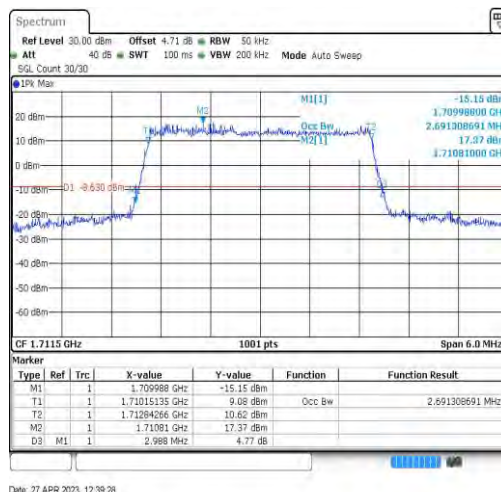
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Date: 1 MAY 2023 20:38:31

Band66-1.4MHz-64QAM-132665-6RB#0-1.097



Date: 27 APR 2023 12:39:28

Band66-3MHz-QPSK-131987-15RB#0-2.691



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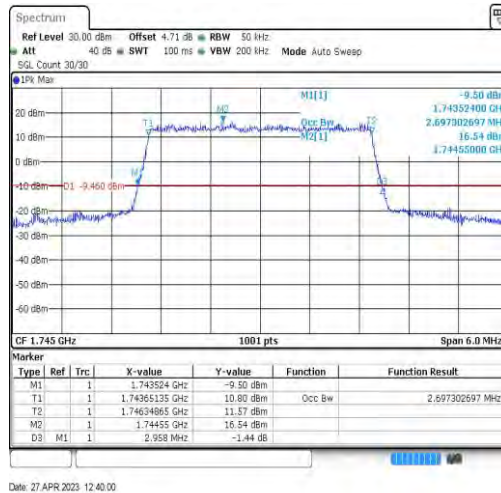
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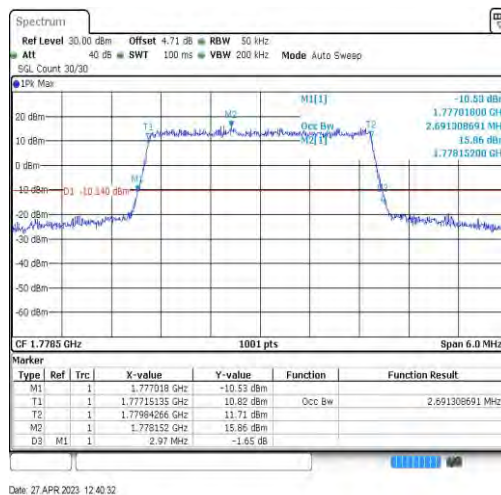
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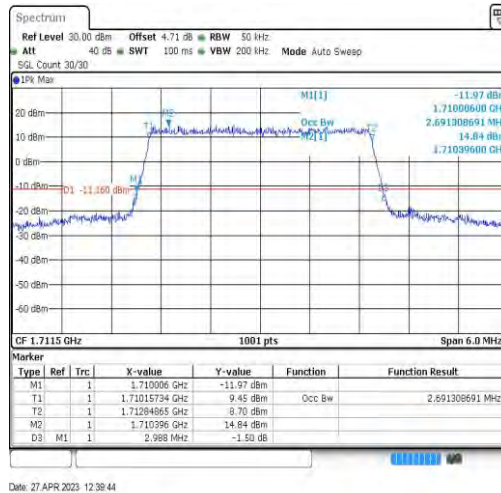
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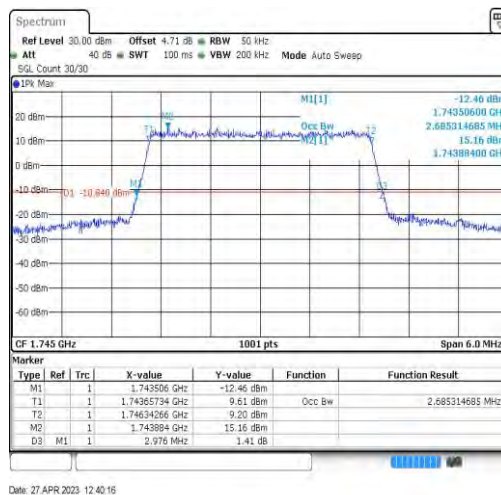
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Band66-3MHz-16QAM-131987-15RB#0-2.691



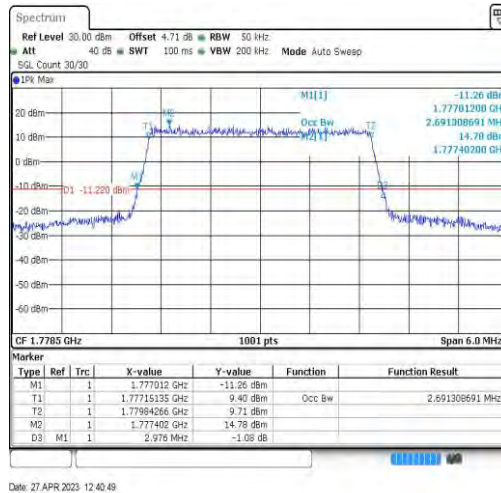
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Report No.: ZEWM2303000343RG02

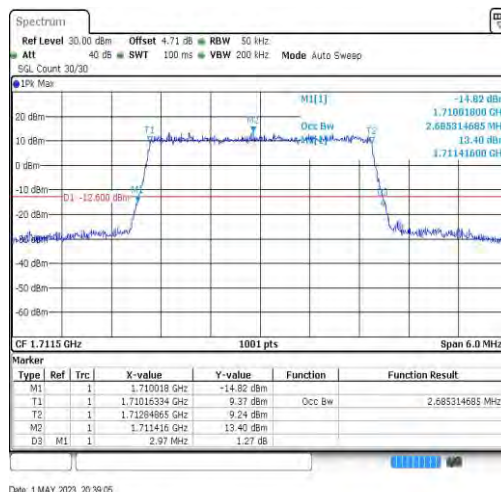
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Date: 27 APR 2023 12:40:49

Band66-3MHz-16QAM-132657-15RB#0-2.691



Date: 1 MAY 2023 20:39:05

Band66-3MHz-64QAM-131987-15RB#0-2.685



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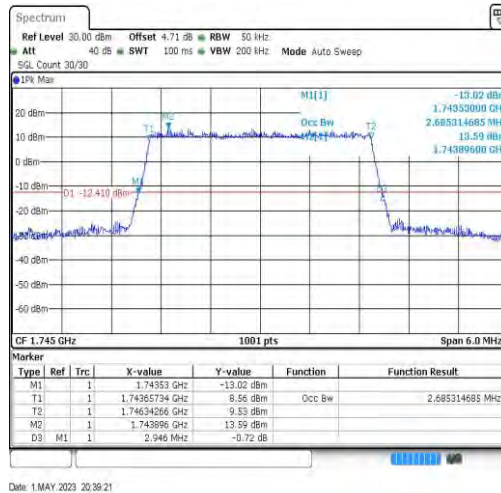
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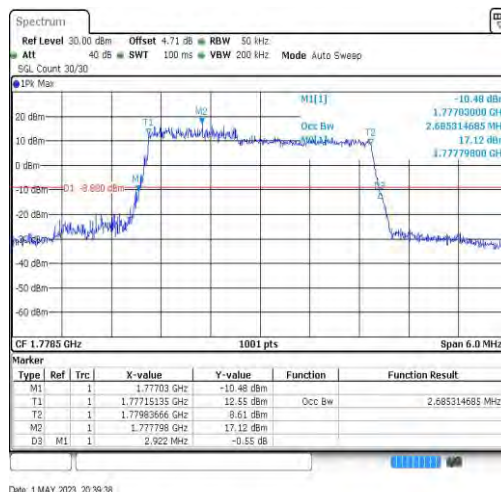
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Band66-3MHz-64QAM-132322-15RB#0-2.685



Date: 1.MAY.2023 20:39:38

Band66-3MHz-64QAM-132657-15RB#0-2.685



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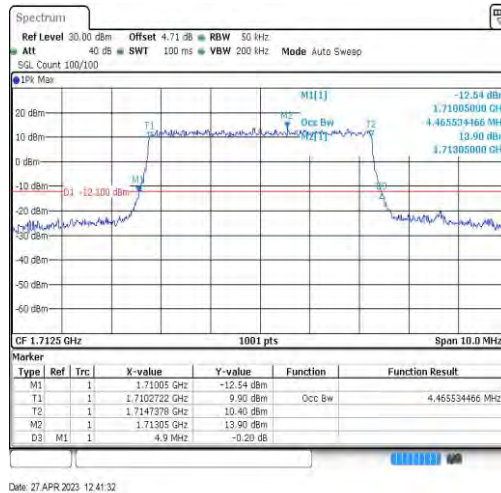
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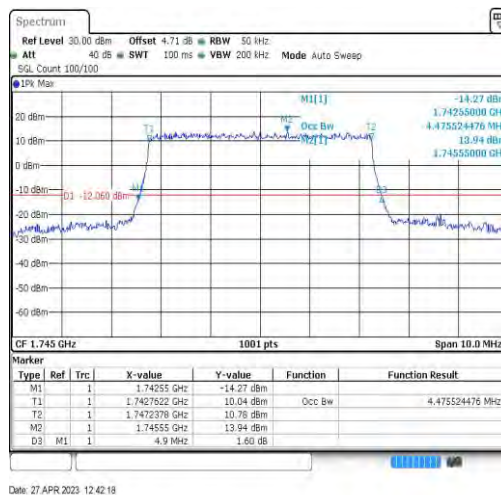
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Date: 27 APR 2023 12:41:32

Band66-5MHz-QPSK-131997-25RB#0-4.466



Date: 27 APR 2023 12:42:18

Band66-5MHz-QPSK-132322-25RB#0-4.476



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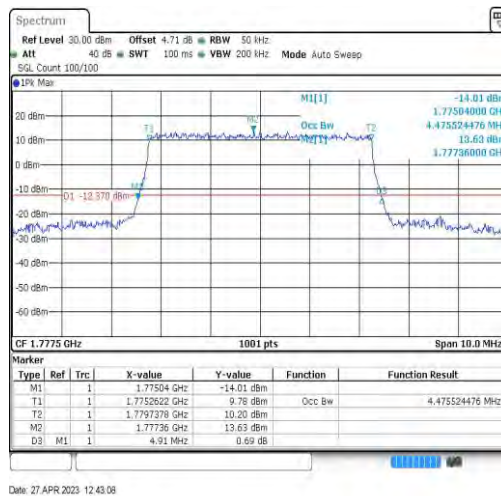
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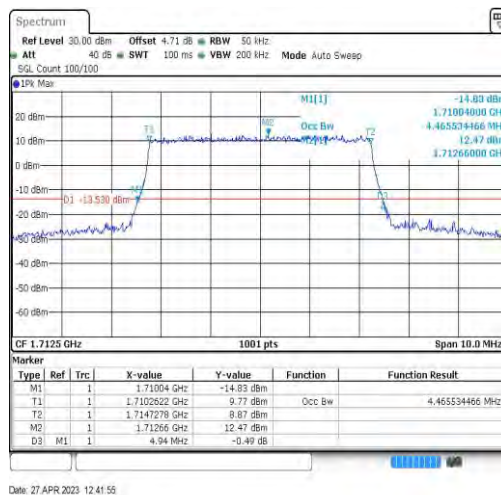
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Date: 27 APR 2023 12:43:08

Band66-5MHz-QPSK-132647-25RB#0-4.476



Date: 27 APR 2023 12:41:55

Band66-5MHz-16QAM-131997-25RB#0-4.466

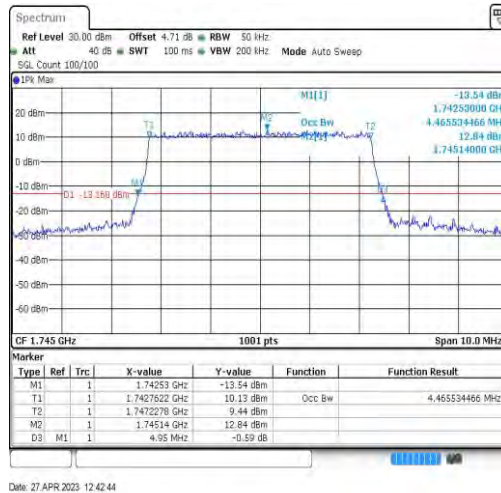


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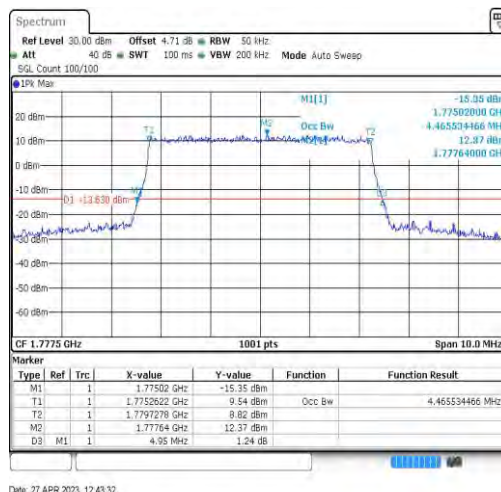
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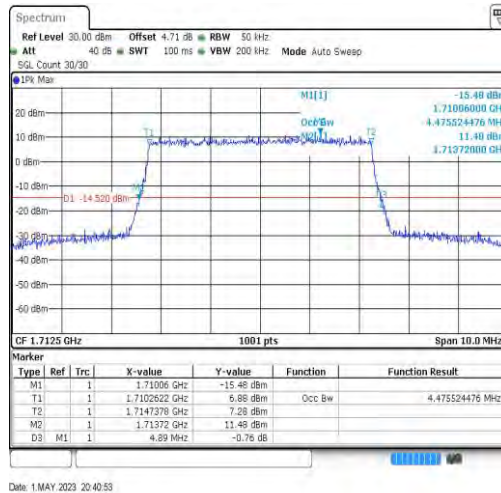
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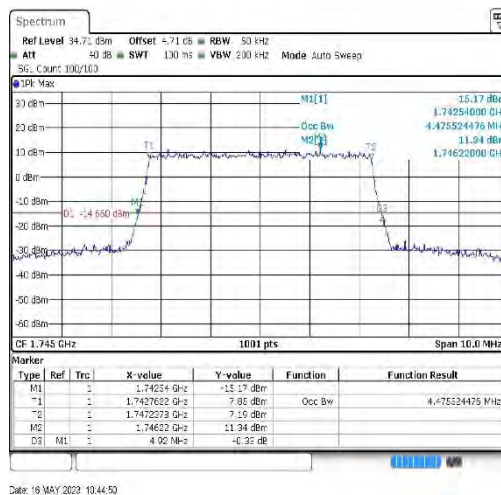
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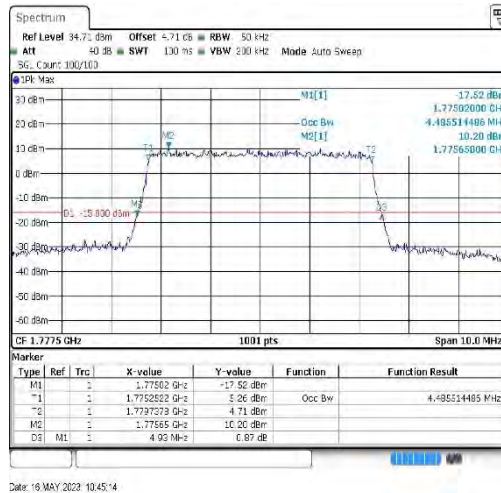
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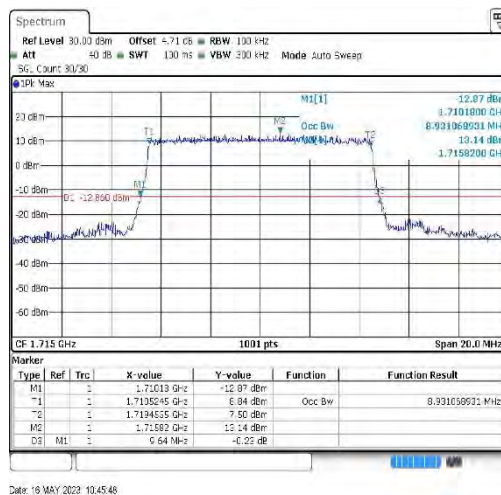
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Band66-5MHz-64QAM-132647-25RB#0-4.456



Band66-10MHz-QPSK-132022-50RB#0-8.971



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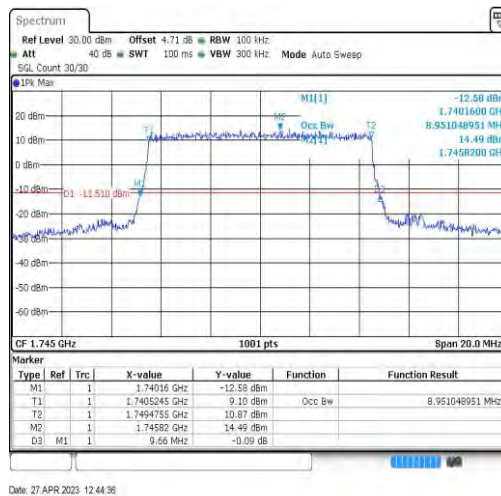
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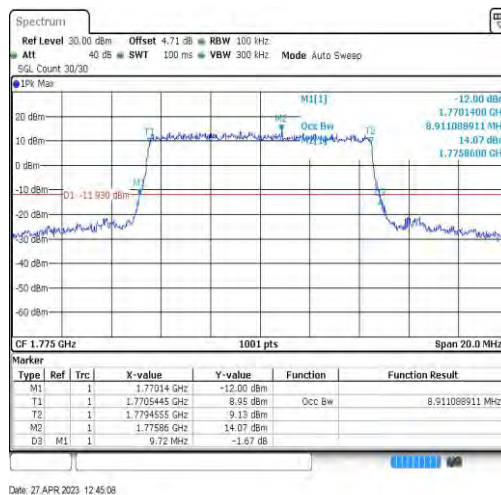
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Band66-10MHz-QPSK-132322-50RB#0-8.951



Band66-10MHz-QPSK-132622-50RB#0-8.911



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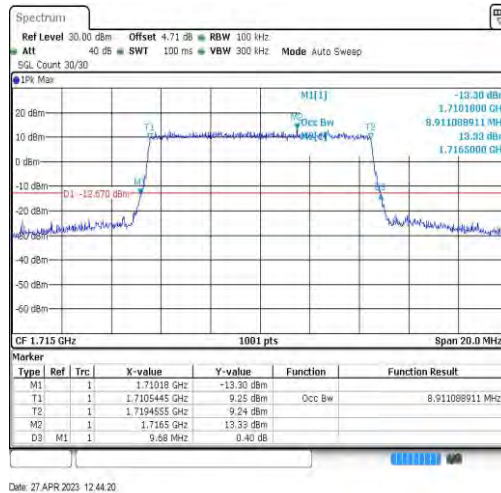
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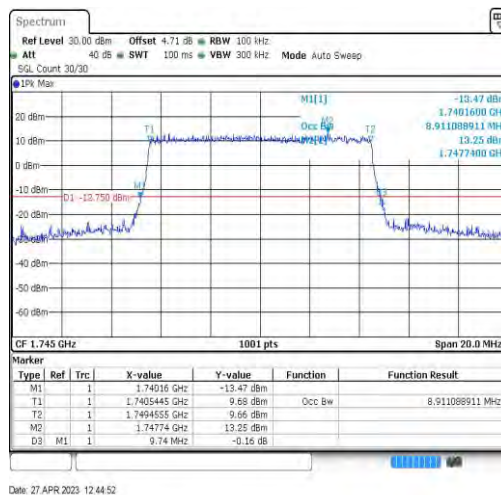
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Band66-10MHz-16QAM-132322-50RB#0-8.911



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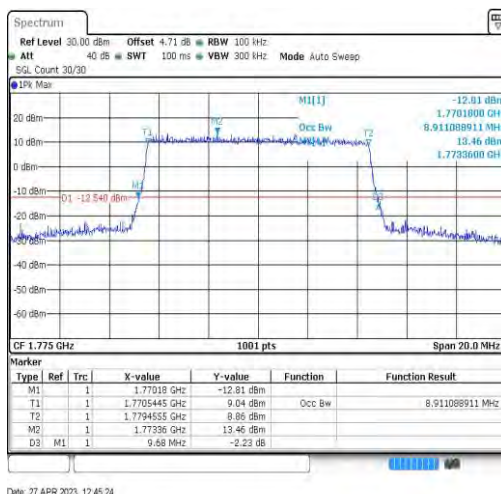
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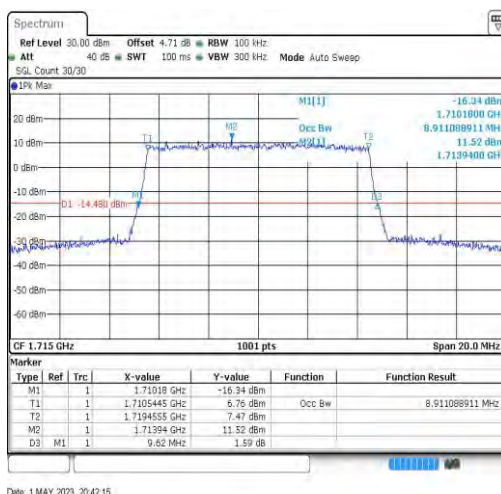
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Date: 27 APR 2023 12:45:24

Band66-10MHz-16QAM-132622-50RB#0-8.911



Date: 1 MAY 2023 20:42:15

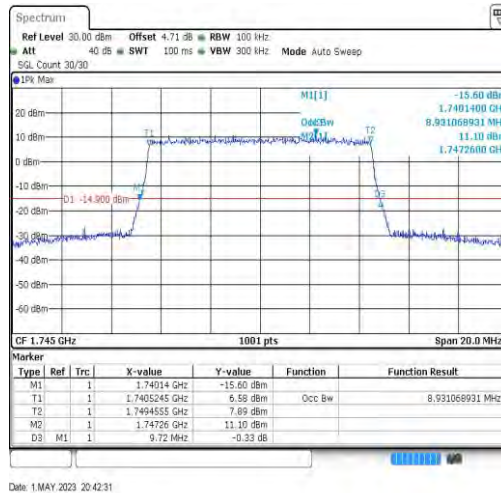
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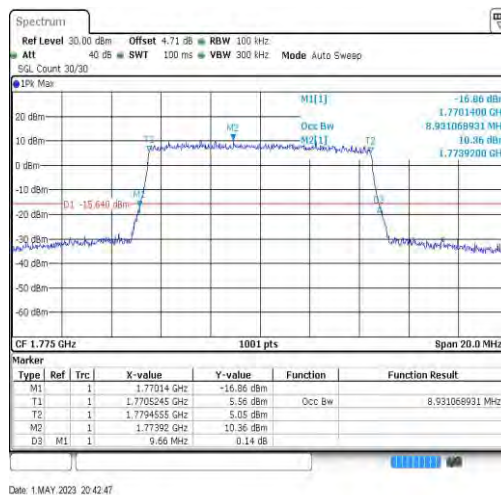
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Band66-10MHz-64QAM-132322-50RB#0-8.931



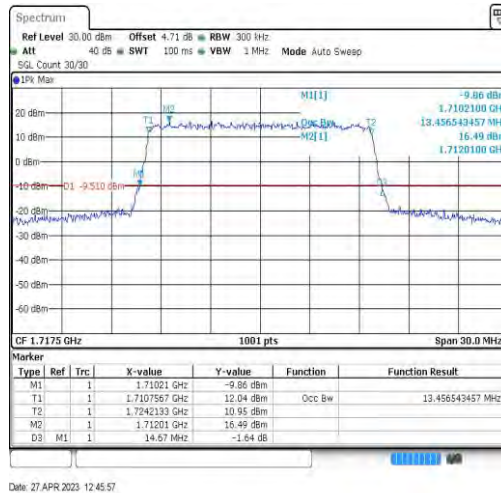
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Report No.: ZEWM2303000343RG02

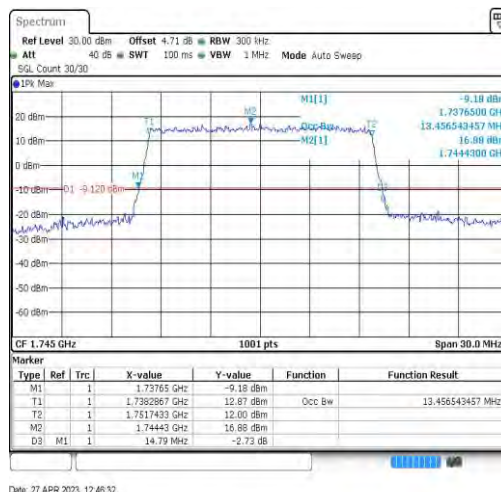
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Date: 27 APR 2023 12:45:57

Band66-15MHz-QPSK-132047-75RB#0-13.457



Date: 27 APR 2023 12:46:52

Band66-15MHz-QPSK-132322-75RB#0-13.457



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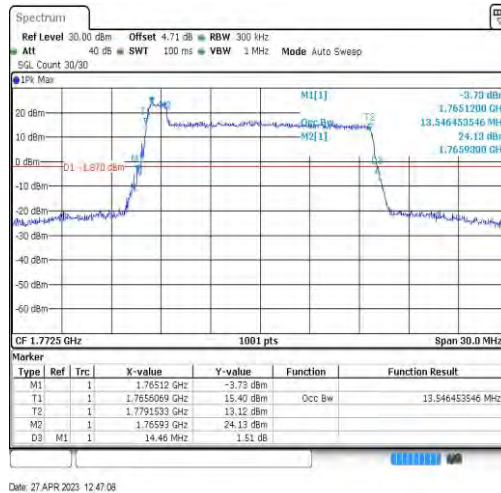
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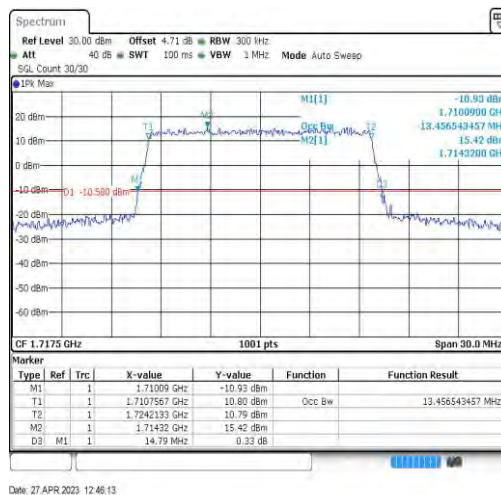
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Band66-15MHz-QPSK-132597-75RB#0-13.546



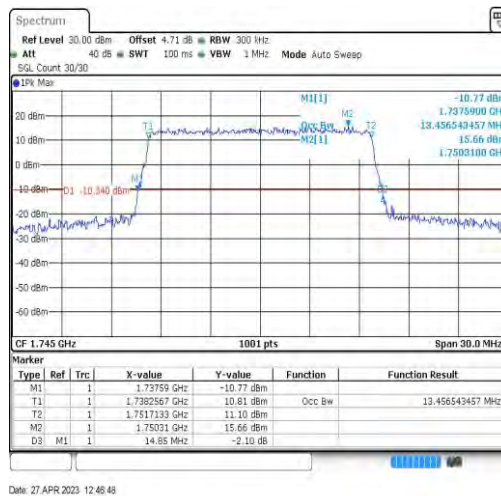
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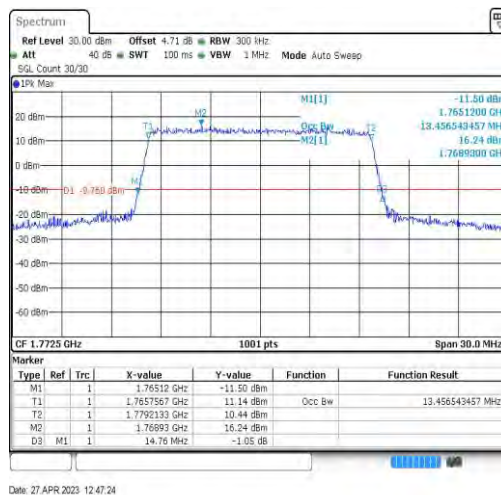
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Band66-15MHz-16QAM-132322-75RB#0-13.457



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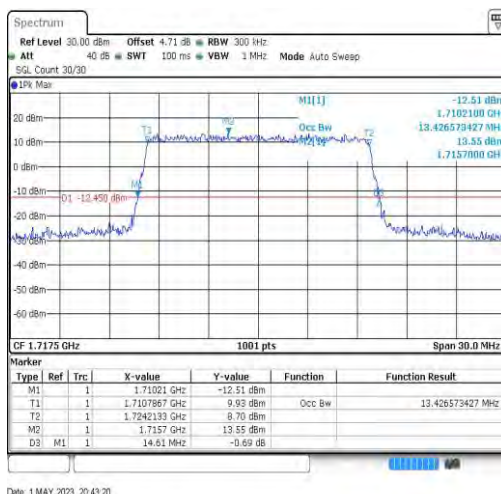




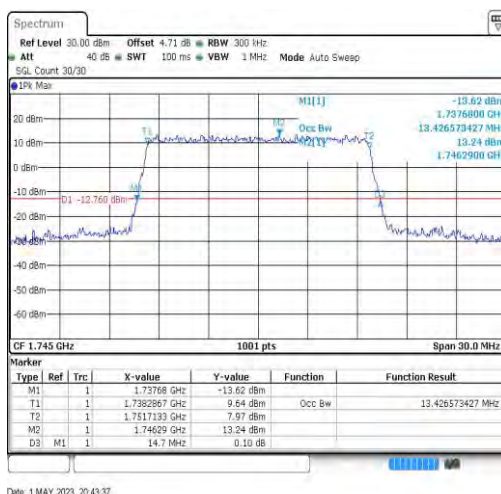
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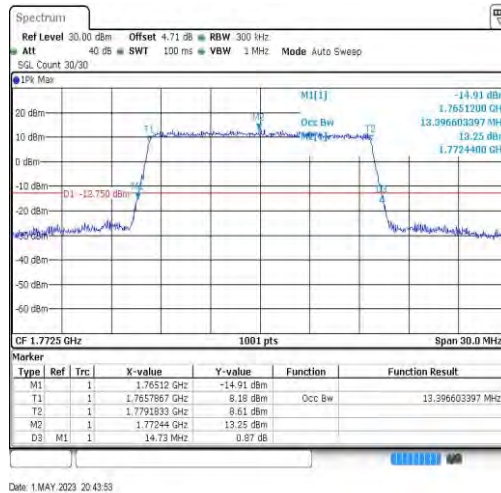


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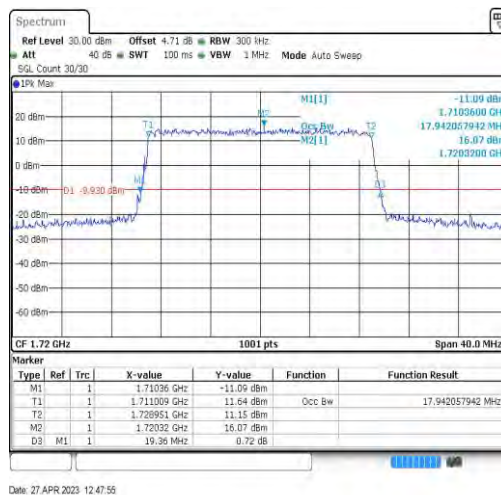


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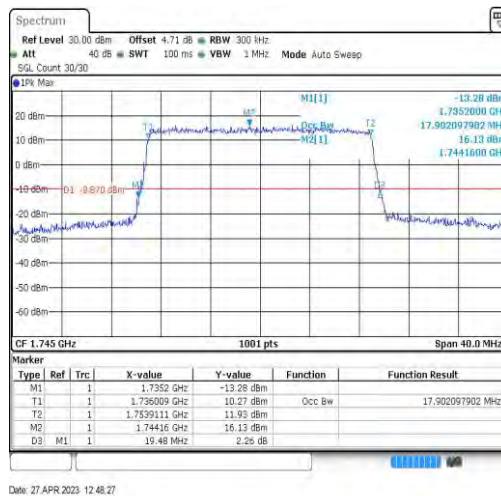


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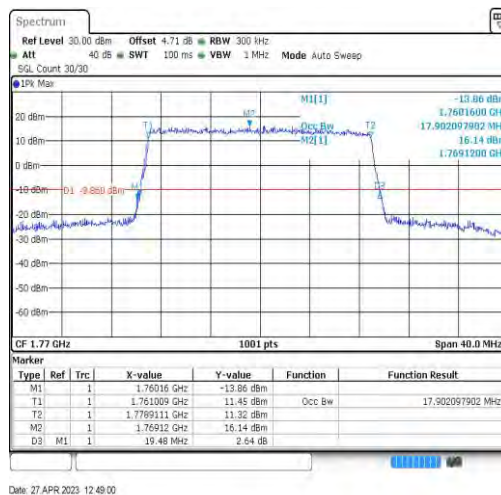


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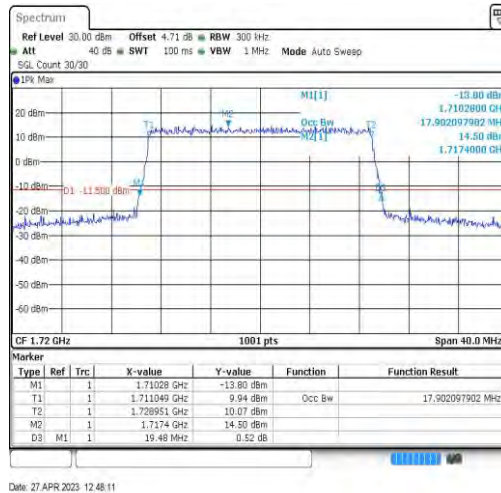


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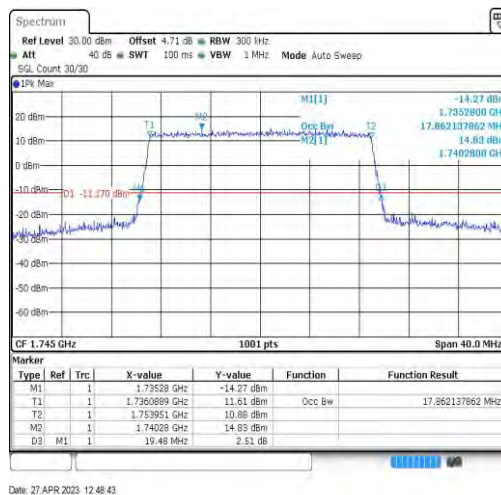


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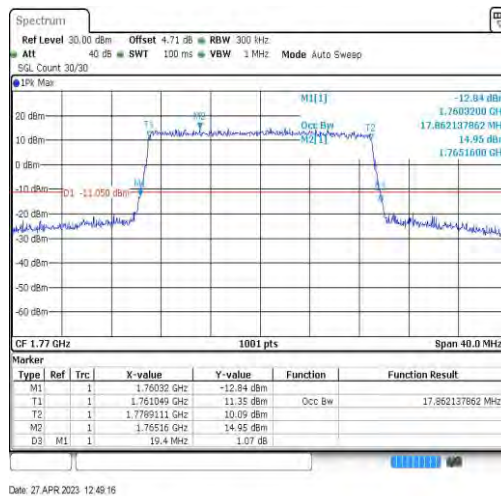


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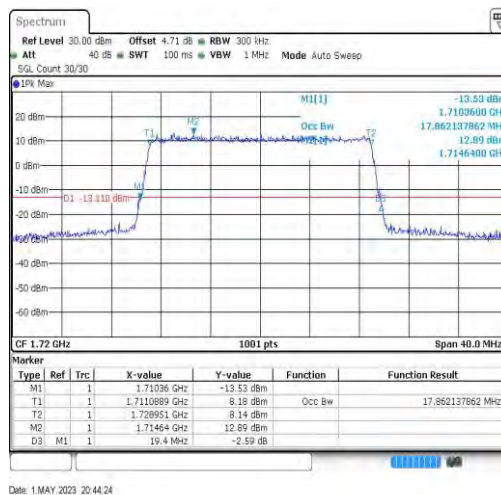


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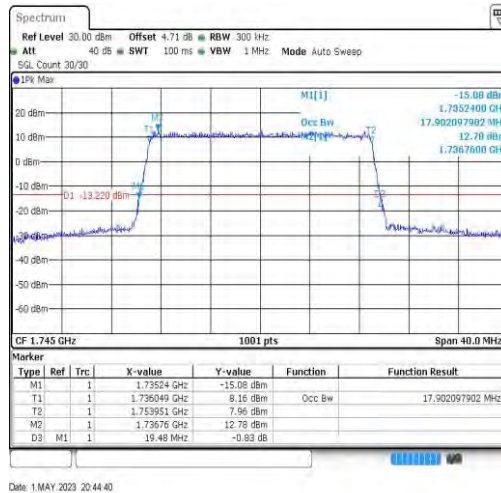


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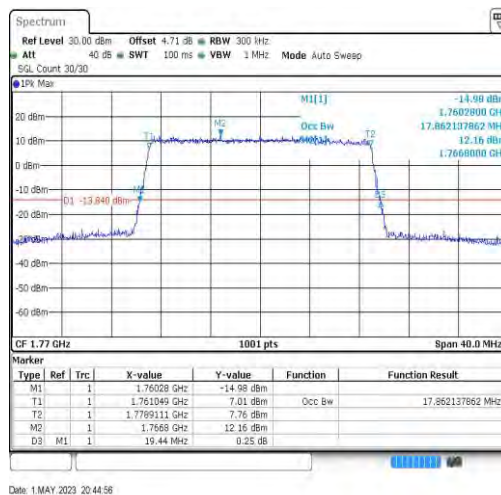


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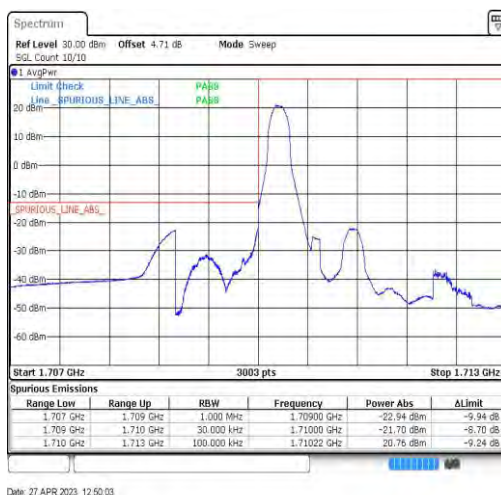
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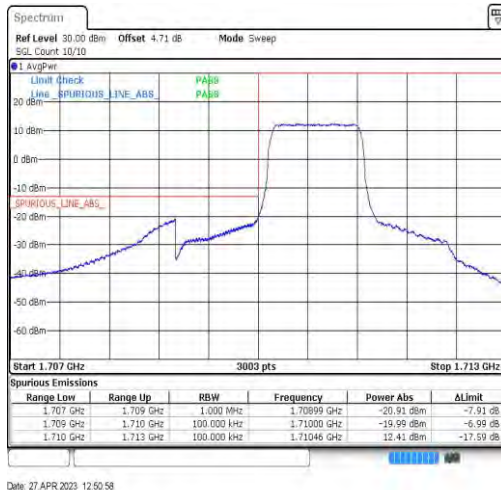
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Band Edge

Test Graphs



Band66-1.4MHz-QPSK-131979-1RB#0



Band66-1.4MHz-QPSK-131979-6RB#0



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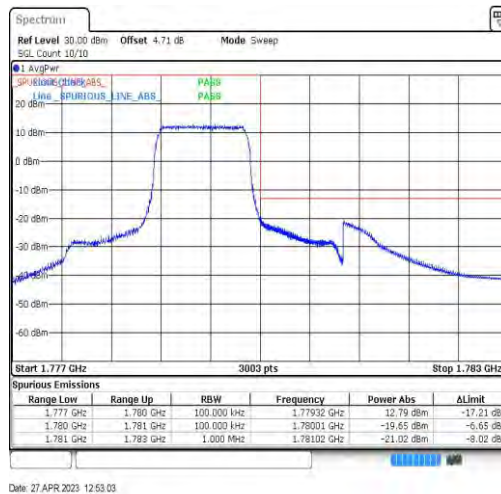
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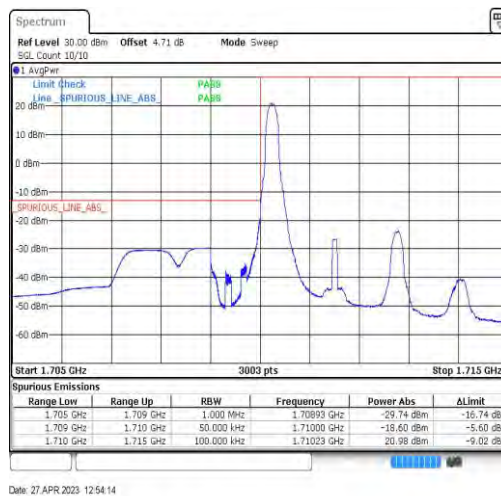
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Band66-1.4MHz-QPSK-132665-6RB#0



Band66-3MHz-QPSK-131987-1RB#0



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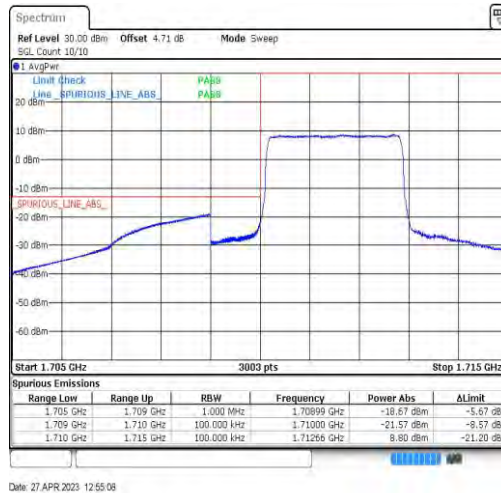
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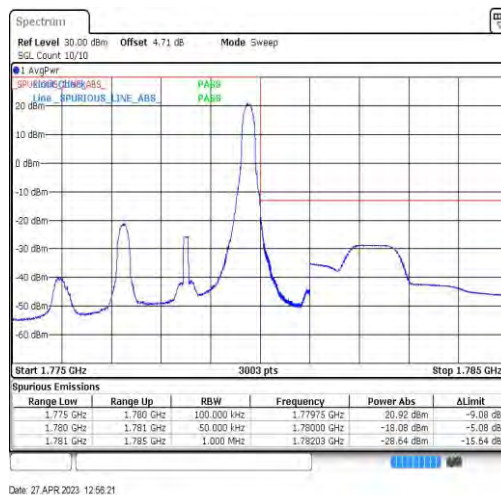
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Band66-3MHz-QPSK-131987-15RB#0



Band66-3MHz-QPSK-132657-1RB#14



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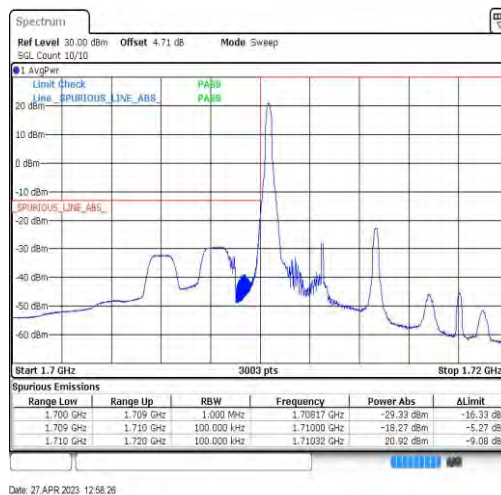
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Band66-3MHz-QPSK-132657-15RB#0



Band66-5MHz-QPSK-131997-1RB#0



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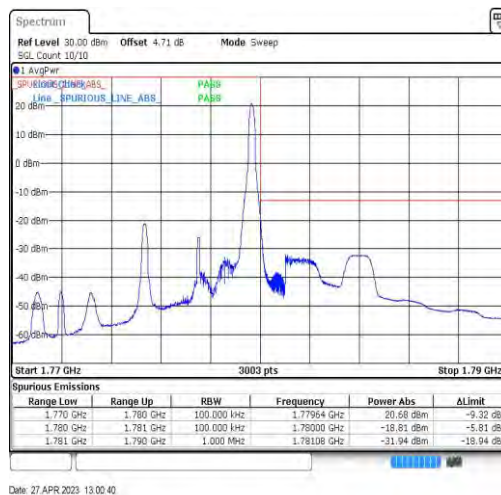
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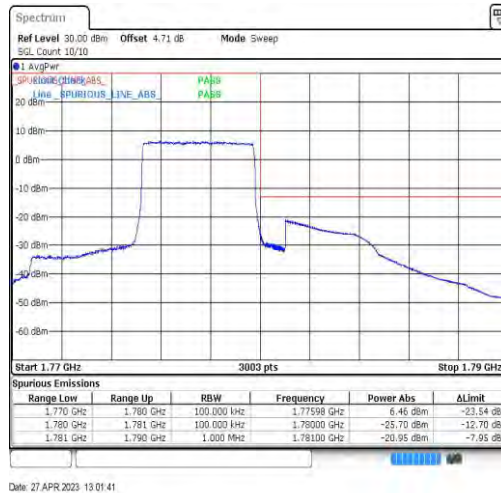
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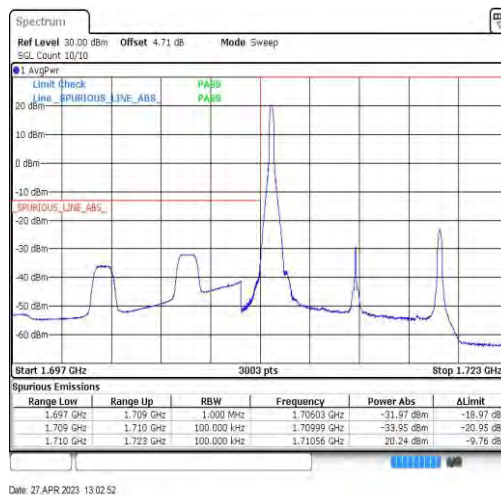
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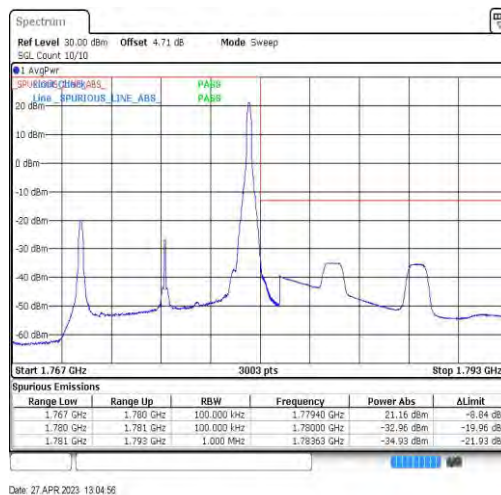
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Band66-10MHz-QPSK-132022-50RB#0



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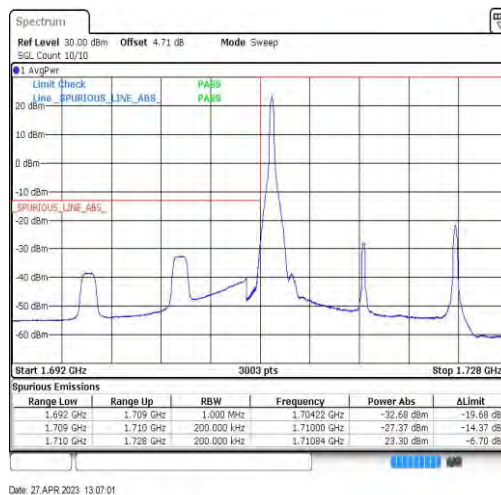
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Band66-15MHz-QPSK-132047-1RB#0



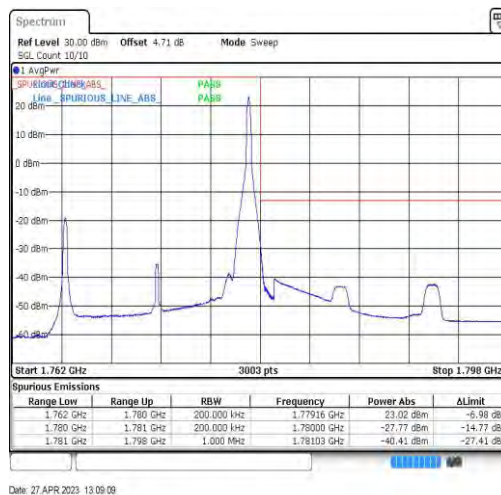
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Band66-15MHz-QPSK-132047-75RB#0



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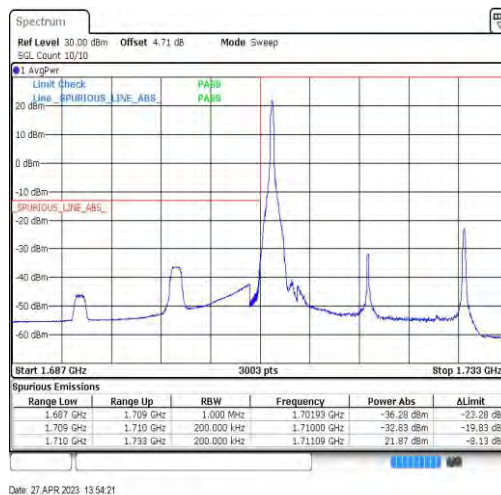
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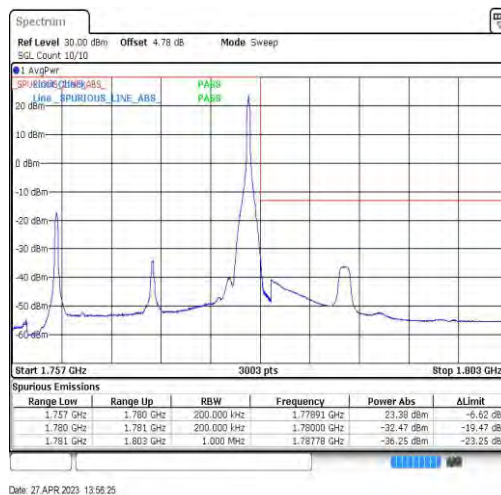
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Band66-20MHz-QPSK-132072-100RB#0



Band66-20MHz-QPSK-132572-1RB#99



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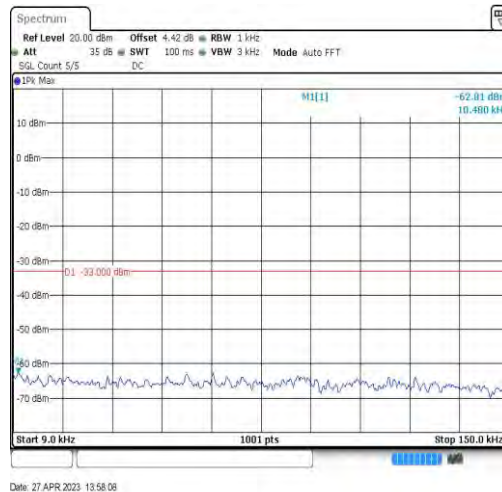
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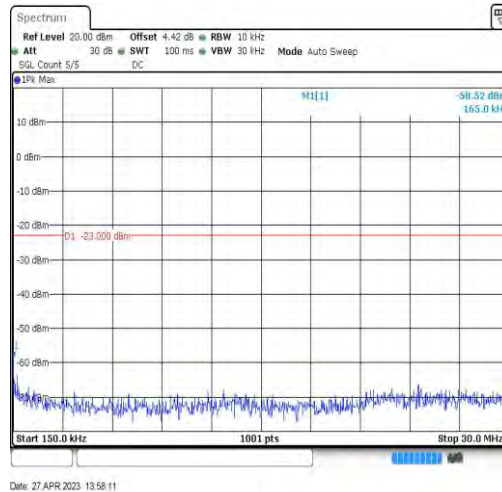


Conducted Spurious Emission

Test Graphs

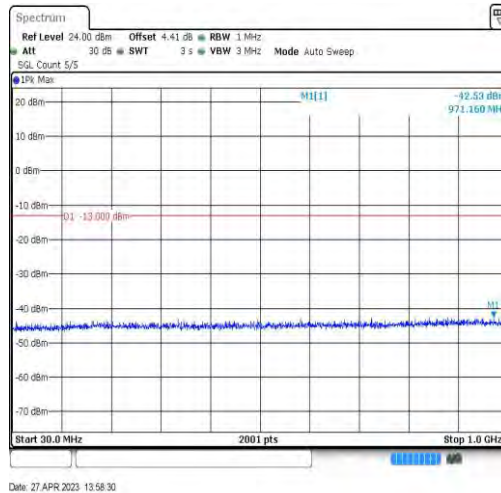


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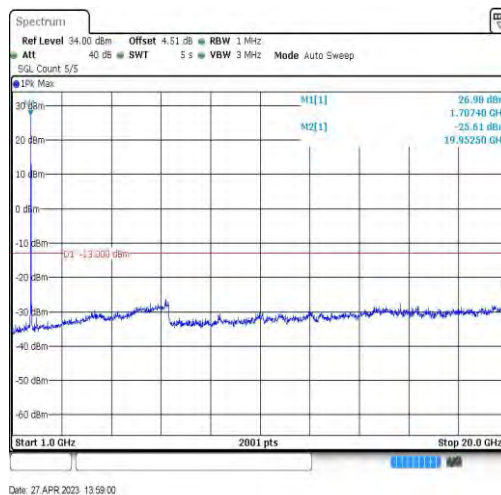


Band66-20MHz-QPSK-132072-1RB#0-Range2:0.15~30MHz





Band66-20MHz-QPSK-132072-1RB#0-Range3:30~1000MHz



Band66-20MHz-QPSK-132072-1RB#0-Range4:1000~20000MHz

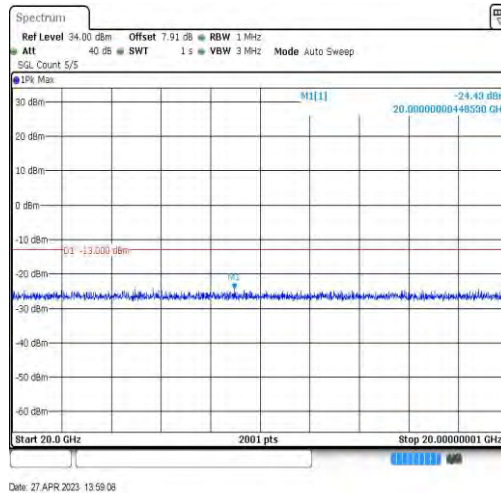




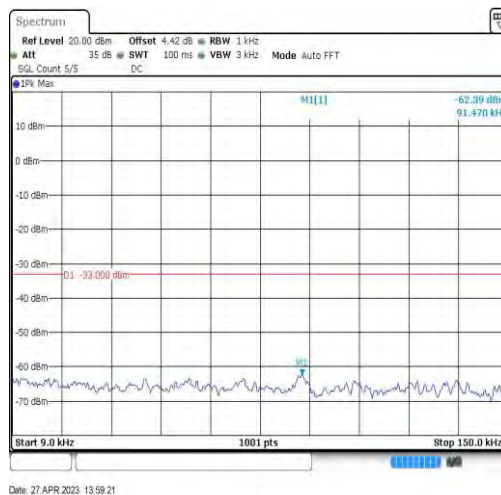
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Band66-20MHz-QPSK-132072-1RB#0-Range5:20000~40000MHz



Band66-20MHz-QPSK-132322-1RB#0-Range1:0.009~0.15MHz

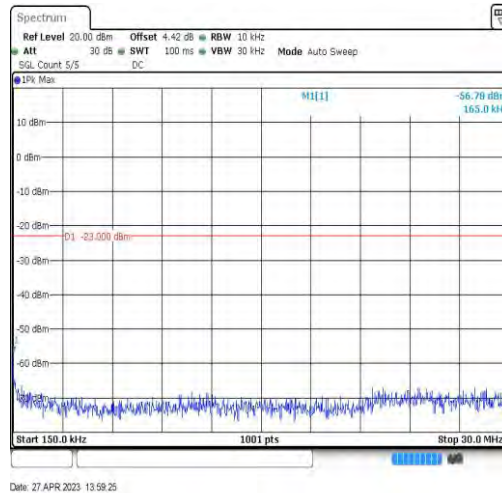




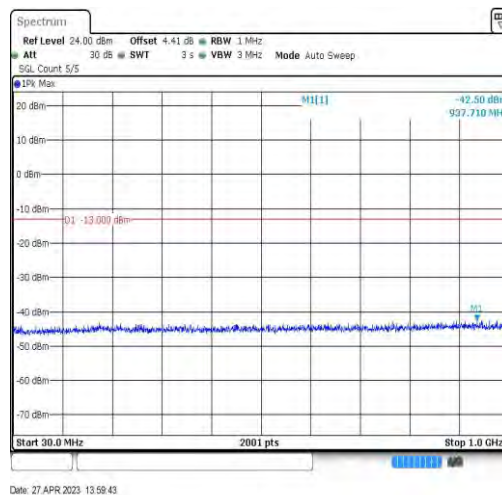
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Band66-20MHz-QPSK-132322-1RB#0-Range2:0.15~30MHz



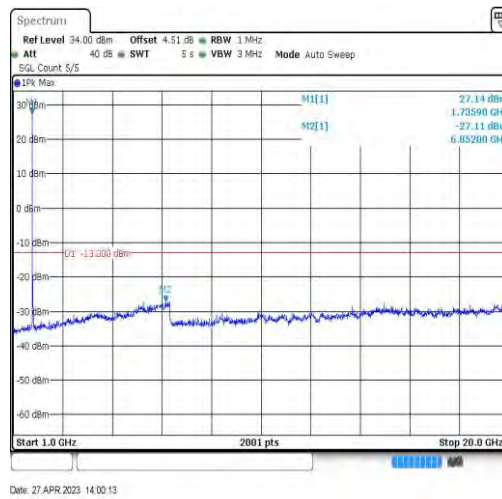
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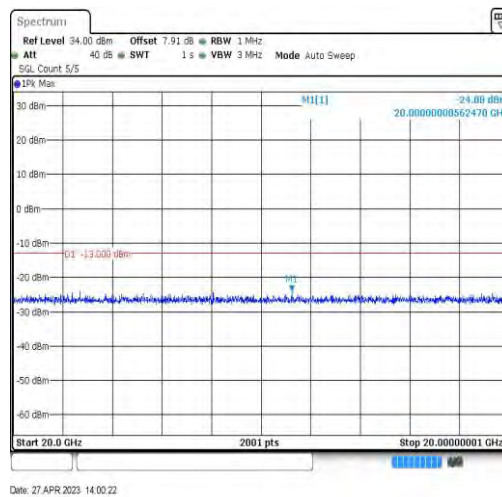
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Band66-20MHz-QPSK-132322-1RB#0-Range4:1000~20000MHz



Band66-20MHz-QPSK-132322-1RB#0-Range5:20000~40000MHz



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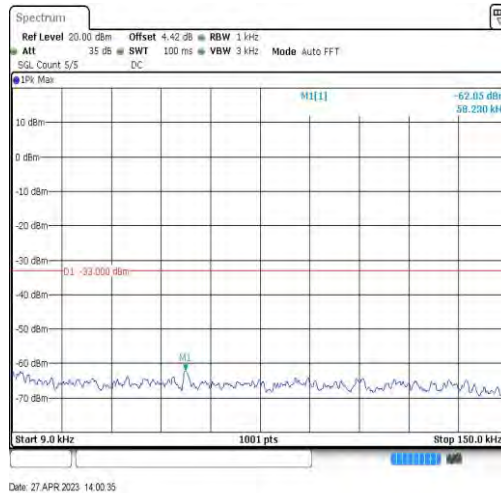
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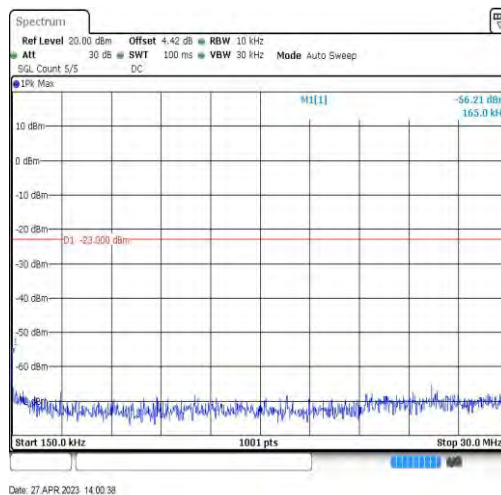
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Band66-20MHz-QPSK-132572-1RB#0-Range1:0.009~0.15MHz



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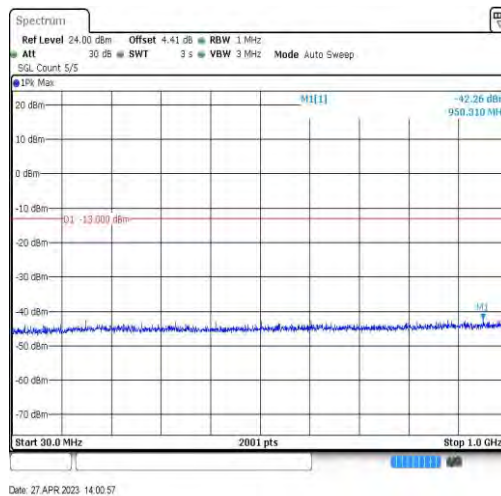
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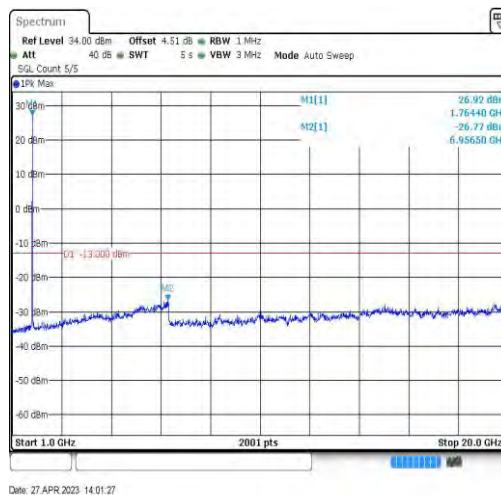
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Band66-20MHz-QPSK-132572-1RB#0-Range3:30~1000MHz



Band66-20MHz-QPSK-132572-1RB#0-Range4:1000~20000MHz



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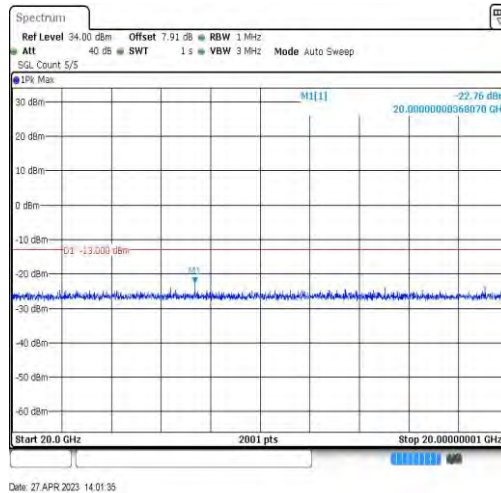
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Band66-20MHz-QPSK-132572-1RB#0-Range5:20000~40000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_66 ANT 13_20MHz_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.2711	53.05	-45.33	28.73	-58.81	-13.00	45.81	329	192	Horizontal
2	5888.3944	51.56	-41.15	32.75	-52.10	-13.00	39.10	331	291	Horizontal
3	7843.7422	50.41	-37.72	36.77	-45.80	-13.00	32.80	264	208	Horizontal
4	9478.8239	51.82	-35.88	37.67	-41.65	-13.00	28.65	221	204	Horizontal
5	11062.1531	50.99	-37.36	40.16	-41.47	-13.00	28.47	218	2	Horizontal
6	15203.1102	54.20	-35.32	39.71	-36.67	-13.00	23.67	264	46	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3654.0327	51.36	-44.44	29.30	-59.04	-13.00	46.04	331	64	Vertical
2	5676.8838	51.75	-41.21	32.50	-52.22	-13.00	39.22	264	56	Vertical
3	7869.2435	50.15	-37.61	36.68	-46.04	-13.00	33.04	221	174	Vertical
4	9426.3213	51.89	-35.55	37.41	-41.51	-13.00	28.51	269	127	Vertical
5	11014.1507	50.82	-37.07	40.11	-41.40	-13.00	28.40	222	345	Vertical
6	15212.8606	54.15	-35.41	39.73	-36.79	-13.00	23.79	316	48	Vertical



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Test Band = LTE_66 ANT 13 _20MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3627.0314	51.57	-44.39	29.12	-58.96	-13.00	45.96	394	88	Horizontal
2	5402.3701	51.13	-41.99	32.49	-53.63	-13.00	40.63	226	334	Horizontal
3	7874.4937	50.41	-37.59	36.65	-45.79	-13.00	32.79	264	100	Horizontal
4	9471.3236	51.86	-35.83	37.63	-41.60	-13.00	28.60	196	49	Horizontal
5	11039.652	50.97	-37.22	40.14	-41.37	-13.00	28.37	264	232	Horizontal
6	15209.8605	54.16	-35.38	39.72	-36.76	-13.00	23.76	226	57	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3654.7827	51.33	-44.44	29.30	-59.07	-13.00	46.07	116	239	Vertical
2	5628.1314	51.88	-41.36	32.54	-52.20	-13.00	39.20	207	255	Vertical
3	7837.7419	50.42	-37.74	36.75	-45.83	-13.00	32.83	265	172	Vertical
4	9446.5723	51.94	-35.67	37.49	-41.50	-13.00	28.50	194	223	Vertical
5	11047.9024	50.88	-37.27	40.15	-41.50	-13.00	28.50	265	263	Vertical
6	15197.1099	54.30	-35.40	39.72	-36.64	-13.00	23.64	263	1	Vertical



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Test Band = LTE_66 ANT 13 _20MHz_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3634.5317	51.40	-44.41	29.18	-59.09	-13.00	46.09	159	22	Horizontal
2	5657.3829	51.81	-41.27	32.50	-52.22	-13.00	39.22	216	97	Horizontal
3	7686.2343	50.38	-37.73	36.74	-45.87	-13.00	32.87	264	117	Horizontal
4	9420.321	51.68	-35.51	37.38	-41.71	-13.00	28.71	236	97	Horizontal
5	11056.9028	50.87	-37.33	40.16	-41.56	-13.00	28.56	218	113	Horizontal
6	15187.3594	54.53	-35.79	39.78	-36.74	-13.00	23.74	233	216	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3625.5313	51.45	-44.39	29.10	-59.10	-13.00	46.10	197	2	Vertical
2	5694.8847	51.91	-41.16	32.50	-52.01	-13.00	39.01	215	58	Vertical
3	7450.7225	50.72	-38.29	36.80	-46.03	-13.00	33.03	264	109	Vertical
4	9454.8227	51.90	-35.73	37.53	-41.56	-13.00	28.56	263	89	Vertical
5	11068.9034	51.06	-37.40	40.17	-41.43	-13.00	28.43	241	196	Vertical
6	15185.1093	54.49	-35.88	39.79	-36.86	-13.00	23.86	269	196	Vertical



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Test Band = LTE_66 ANT 31_20MHz_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.2711	53.80	-45.33	28.73	-58.06	-13.00	45.06	247	191	Horizontal
2	5135.3568	51.82	-42.53	31.71	-54.26	-13.00	41.26	351	306	Horizontal
3	6823.6912	51.10	-39.44	35.49	-48.11	-13.00	35.11	265	231	Horizontal
4	7852.7426	50.54	-37.68	36.78	-45.62	-13.00	32.62	160	160	Horizontal
5	10963.8982	50.69	-37.14	40.14	-41.57	-13.00	28.57	211	349	Horizontal
6	15200.11	54.46	-35.29	39.70	-36.39	-13.00	23.39	265	329	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3612.7806	51.64	-44.37	29.00	-58.99	-13.00	45.99	252	270	Vertical
2	5637.1319	52.09	-41.33	32.53	-51.97	-13.00	38.97	213	140	Vertical
3	7692.9846	50.63	-37.65	36.77	-45.51	-13.00	32.51	222	100	Vertical
4	9455.5728	51.91	-35.73	37.53	-41.55	-13.00	28.55	316	53	Vertical
5	11089.1545	51.40	-37.52	40.19	-41.19	-13.00	28.19	220	179	Vertical
6	15207.6104	54.40	-35.36	39.72	-36.50	-13.00	23.50	226	148	Vertical



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Test Band = LTE_66 ANT 31_20MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3633.7817	51.55	-44.40	29.17	-58.94	-13.00	45.94	233	56	Horizontal
2	5676.1338	51.98	-41.21	32.50	-51.99	-13.00	38.99	251	128	Horizontal
3	7434.2217	51.10	-38.28	36.77	-45.67	-13.00	32.67	266	218	Horizontal
4	9893.5947	50.25	-35.01	38.55	-41.47	-13.00	28.47	169	222	Horizontal
5	11039.652	51.16	-37.22	40.14	-41.18	-13.00	28.18	222	341	Horizontal
6	15204.6102	54.33	-35.33	39.71	-36.55	-13.00	23.55	216	112	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3601.5301	51.72	-44.35	28.91	-58.98	-13.00	45.98	311	101	Vertical
2	5592.8796	52.12	-41.47	32.54	-52.07	-13.00	39.07	241	104	Vertical
3	7697.4849	50.09	-37.59	36.79	-45.97	-13.00	32.97	100	133	Vertical
4	9502.8251	51.81	-36.00	37.80	-41.65	-13.00	28.65	216	354	Vertical
5	11101.1551	51.31	-37.61	40.20	-41.36	-13.00	28.36	222	232	Vertical
6	15195.6098	54.49	-35.46	39.73	-36.50	-13.00	23.50	331	140	Vertical



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Test Band = LTE_66 ANT 31_20MHz_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3969.7985	51.21	-44.18	29.86	-58.37	-13.00	45.37	187	233	Horizontal
2	5152.6076	52.11	-42.54	31.81	-53.88	-13.00	40.88	167	322	Horizontal
3	6454.6727	51.12	-40.62	33.85	-50.91	-13.00	37.91	285	26	Horizontal
4	8497.7749	50.39	-36.47	36.50	-44.84	-13.00	31.84	336	189	Horizontal
5	9457.8229	51.85	-35.74	37.55	-41.60	-13.00	28.60	326	81	Horizontal
6	16598.9299	54.72	-35.34	39.50	-36.38	-13.00	23.38	240	30	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3987.7994	51.15	-44.17	29.82	-58.46	-13.00	45.46	138	324	Vertical
2	5633.3817	52.13	-41.34	32.53	-51.94	-13.00	38.94	176	195	Vertical
3	7443.2222	50.91	-38.28	36.79	-45.84	-13.00	32.84	197	10	Vertical
4	9431.5716	52.14	-35.58	37.43	-41.27	-13.00	28.27	184	236	Vertical
5	11026.1513	51.05	-37.14	40.13	-41.22	-13.00	28.22	128	236	Vertical
6	15218.8609	54.53	-35.46	39.74	-36.45	-13.00	23.45	122	71	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

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	VN	NT	-3.70	-0.002120	PASS
Band66	20MHz	QPSK	132322	100RB#0	VL	NT	-0.50	-0.000287	PASS
Band66	20MHz	QPSK	132322	100RB#0	VH	NT	-4.70	-0.002693	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	20MHz	QPSK	132322	100RB#0	NV	-30	-3.80	-0.002178	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-20	-3.40	-0.001948	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	-10	-3.50	-0.002006	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	0	0.00	0.000000	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	10	-0.80	-0.000458	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	20	0.60	0.000344	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	30	-2.30	-0.001318	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	40	-0.60	-0.000344	PASS
Band66	20MHz	QPSK	132322	100RB#0	NV	50	-4.00	-0.002292	PASS

---End of Attachment---



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