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Appendix B.5

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.17	12.37	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.17	12.37	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.13	12.33	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.14	11.34	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.02	12.22	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.13	12.33	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.12	12.32	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.12	11.32	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.12	12.32	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.09	12.29	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.15	12.35	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.16	11.36	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.28	11.48	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.36	11.56	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.32	11.52	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.19	10.39	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.25	11.45	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.26	11.46	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.24	11.44	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.12	10.32	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.18	11.38	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.27	11.47	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.24	11.44	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.06	10.26	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.3	10.5	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.39	10.59	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	21.3	10.5	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	20.08	9.28	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	21.31	10.51	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	21.39	10.59	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	21.34	10.54	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	20.09	9.29	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	21.32	10.52	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	21.26	10.46	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	21.32	10.52	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	20.11	9.31	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	18.32	7.52	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	18.35	7.55	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	18.32	7.52	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	18.13	7.33	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	18.31	7.51	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	18.31	7.51	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	18.26	7.46	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	18.08	7.28	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	18.21	7.41	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	18.34	7.54	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	18.27	7.47	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	18.09	7.29	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.17	12.37	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.23	12.43	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.1	12.3	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.2	11.4	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.63	11.83	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.14	12.34	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.02	12.22	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.12	11.32	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.25	12.45	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.12	12.32	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.1	12.3	34.77	PASS



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Band12	3MHz	QPSK	23165	15RB#0	22.09	11.29	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.26	11.46	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.26	11.46	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.19	11.39	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.13	10.33	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.26	11.46	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.2	11.4	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.25	11.45	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.09	10.29	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.18	11.38	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.24	11.44	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.26	11.46	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.12	10.32	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.29	10.49	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	21.3	10.5	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.28	10.48	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	20.18	9.38	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	21.19	10.39	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.29	10.49	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	21.32	10.52	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	20.08	9.28	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	21.27	10.47	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	21.2	10.4	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	21.23	10.43	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	20.08	9.28	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	18.38	7.58	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	18.31	7.51	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	18.22	7.42	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	18.18	7.38	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	18.13	7.33	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	18.25	7.45	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	18.29	7.49	34.77	PASS



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Band12	3MHz	256QAM	23165	1RB#0	18.34	7.54	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#8	18.21	7.41	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	18.2	7.4	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	18.16	7.36	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.18	12.38	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.21	12.41	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.12	12.32	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.15	11.35	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.06	12.26	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.2	12.4	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.16	12.36	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.1	11.3	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.12	12.32	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.16	12.36	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.19	12.39	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.15	11.35	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.34	11.54	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.33	11.53	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.21	11.41	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.16	10.36	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.22	11.42	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.27	11.47	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.24	11.44	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.12	10.32	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.27	11.47	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.32	11.52	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.32	11.52	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.12	10.32	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	21.39	10.59	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	21.31	10.51	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	21.26	10.46	34.77	PASS



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Band12	5MHz	64QAM	23095	1RB#0	21.27	10.47	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.37	10.57	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.33	10.53	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	20.08	9.28	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	21.34	10.54	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	21.35	10.55	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	21.31	10.51	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	20.07	9.27	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	18.34	7.54	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	18.2	7.4	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	18.17	7.37	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	18.17	7.37	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	18.22	7.42	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	18.33	7.53	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	18.31	7.51	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	18.17	7.37	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	18.31	7.51	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	18.22	7.42	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	18.3	7.5	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	18.15	7.35	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.2	12.4	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.1	12.3	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.12	12.32	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.16	11.36	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.25	12.45	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.19	12.39	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.14	12.34	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.09	11.29	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.36	12.56	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.21	12.41	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.07	12.27	34.77	PASS



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Band12	10MHz	QPSK	23130	50RB#0	22.18	11.38	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.28	11.48	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.16	11.36	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.27	11.47	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.13	10.33	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.29	11.49	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.33	11.53	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.3	11.5	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.03	10.23	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.19	11.39	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.33	11.53	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.21	11.41	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.08	10.28	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.34	10.54	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21.23	10.43	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	21.27	10.47	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	20.15	9.35	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.28	10.48	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	21.33	10.53	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	21.36	10.56	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	20.03	9.23	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	21.36	10.56	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	21.39	10.59	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	21.3	10.5	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	20.12	9.32	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	18.3	7.5	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	18.21	7.41	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	18.34	7.54	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	18.13	7.33	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	18.21	7.41	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	18.32	7.52	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	18.29	7.49	34.77	PASS



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Band12	10MHz	256QAM	23095	50RB#0	18.07	7.27	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	18.27	7.47	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	18.25	7.45	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	18.23	7.43	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	18.19	7.39	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	5.30	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.20	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.32	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.04	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.04	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.08	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.38	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.28	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.36	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.30	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.32	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.30	13	PASS



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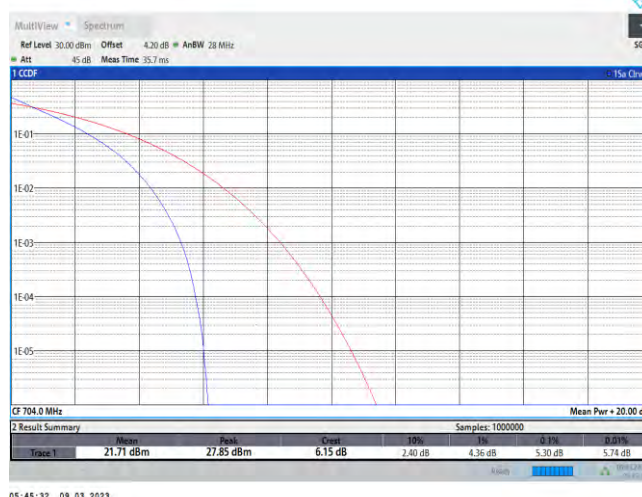
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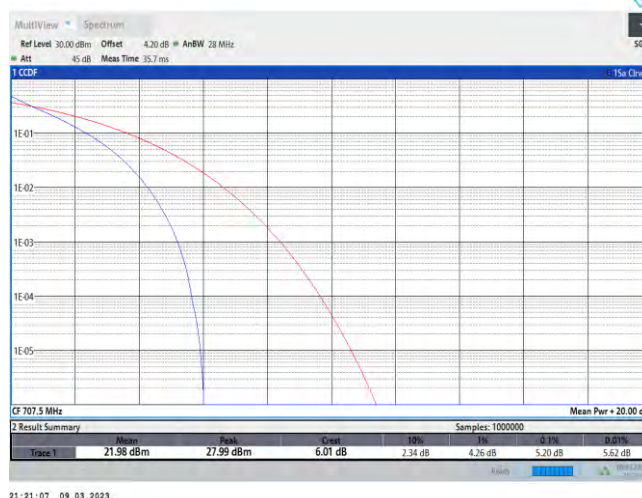
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Test Graphs

Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23095-50RB#0



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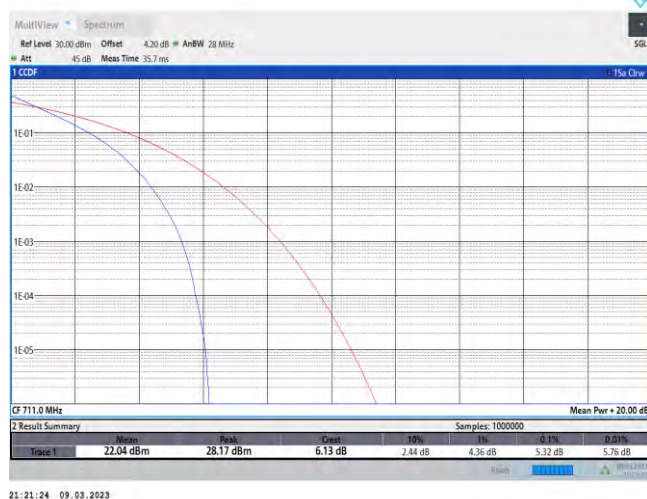
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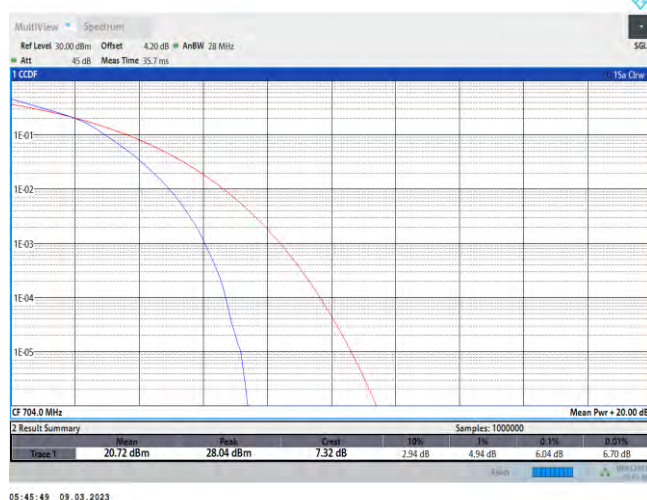
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Band12-10MHz-QPSK-23130-50RB#0



21:21:24 09.03.2023

Band12-10MHz-16QAM-23060-50RB#0



05:45:49 09.03.2023



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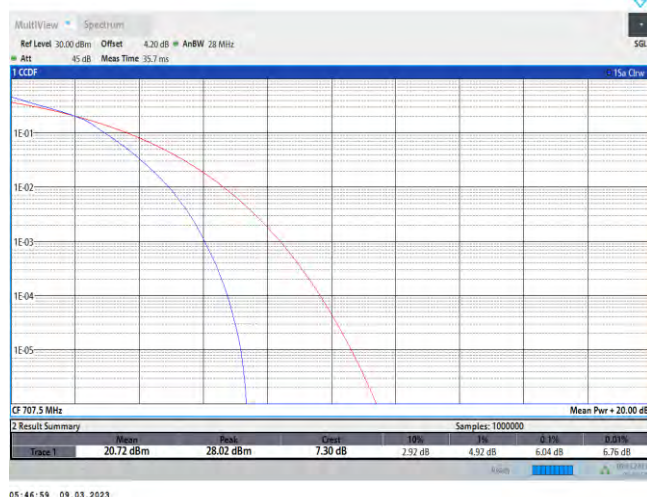
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05:46:59 09.03.2023

Band12-10MHz-16QAM-23130-50RB#0



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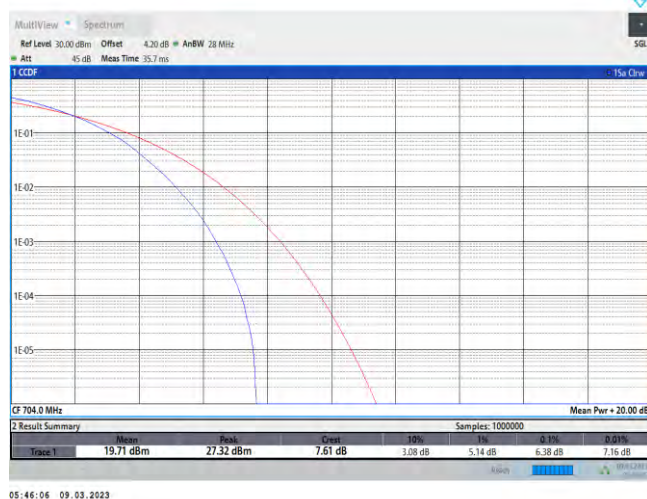
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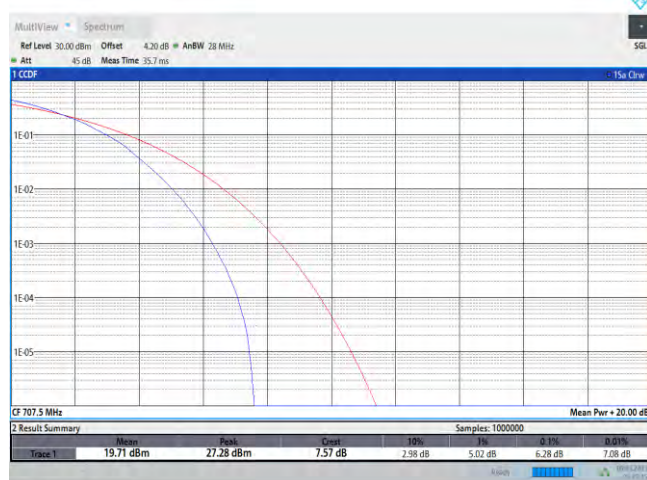
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Band12-10MHz-64QAM-23060-50RB#0



05:46:06 09.03.2023

Band12-10MHz-64QAM-23095-50RB#0



05:47:16 09.03.2023



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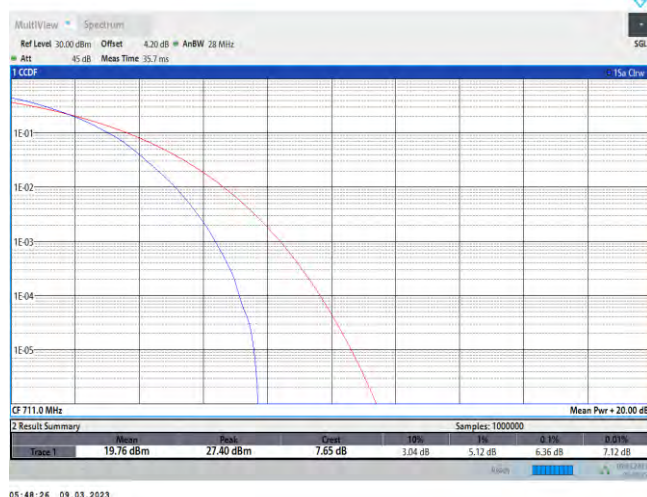
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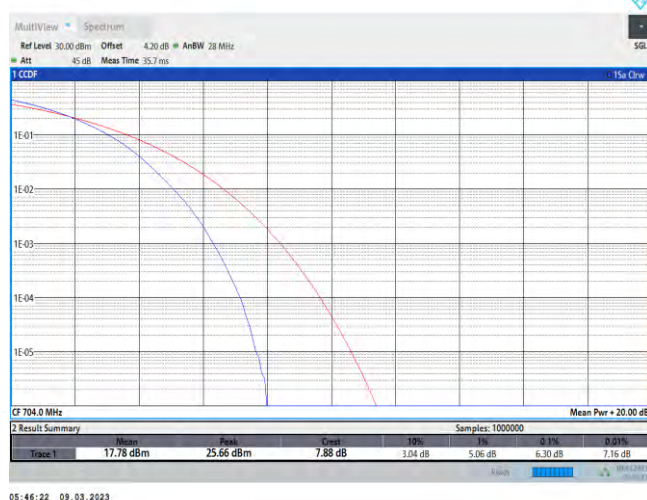
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Band12-10MHz-64QAM-23130-50RB#0



Band12-10MHz-256QAM-23060-50RB#0



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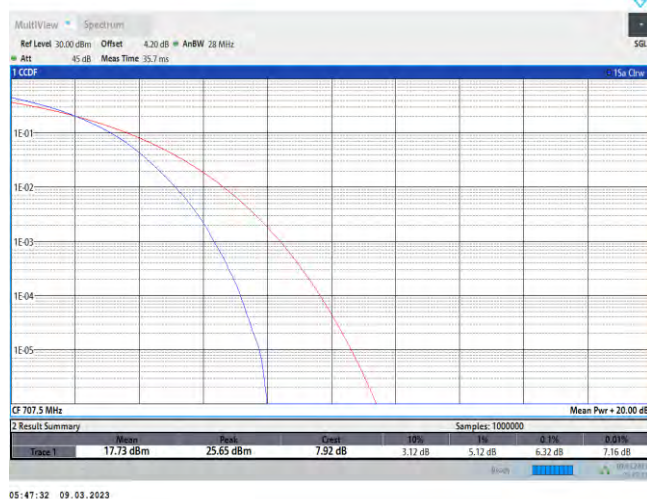
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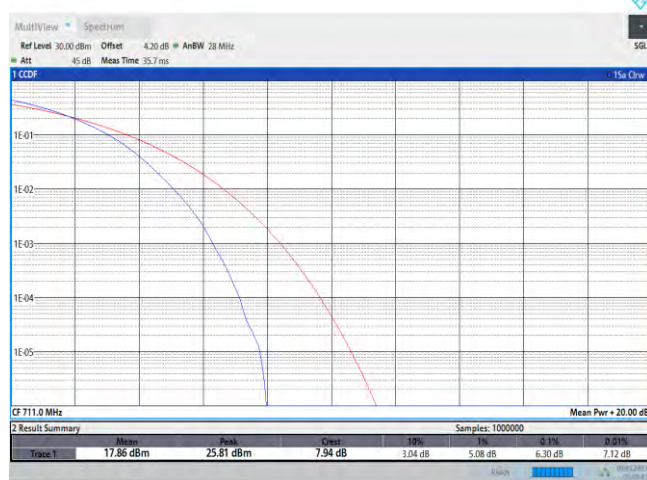
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Band12-10MHz-256QAM-23095-50RB#0



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Band12-10MHz-256QAM-23130-50RB#0



05:48:42 09.03.2023



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	256QAM	23095	50RB#0	PASS	PASS



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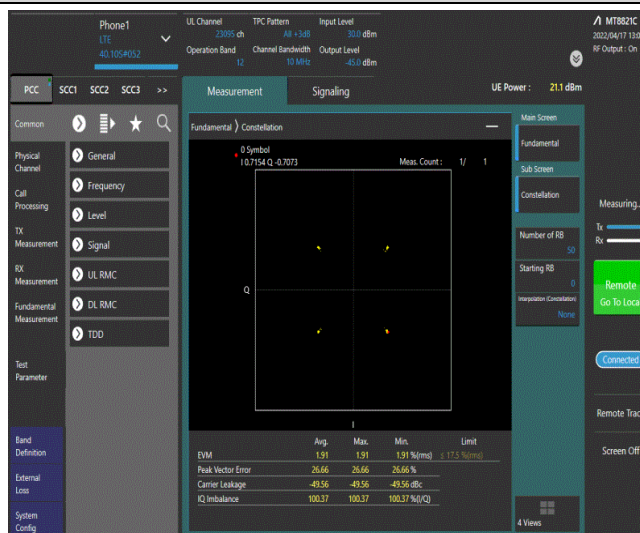
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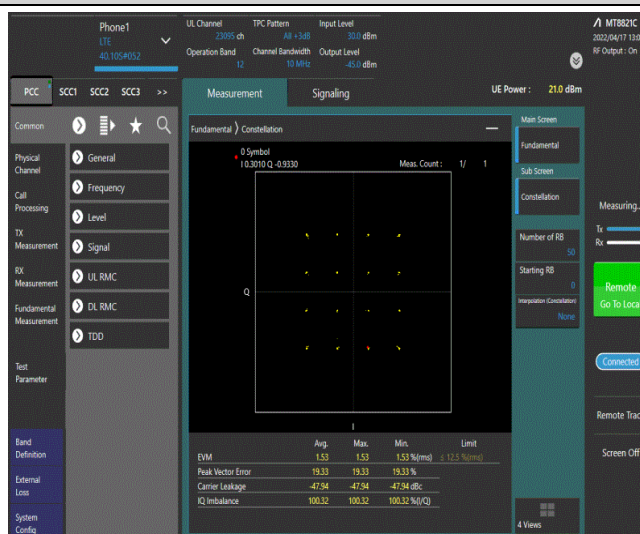
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Test Graphs

Band12-10MHz-QPSK-23095-50RB#0



Band12-10MHz-16QAM-23095-50RB#0



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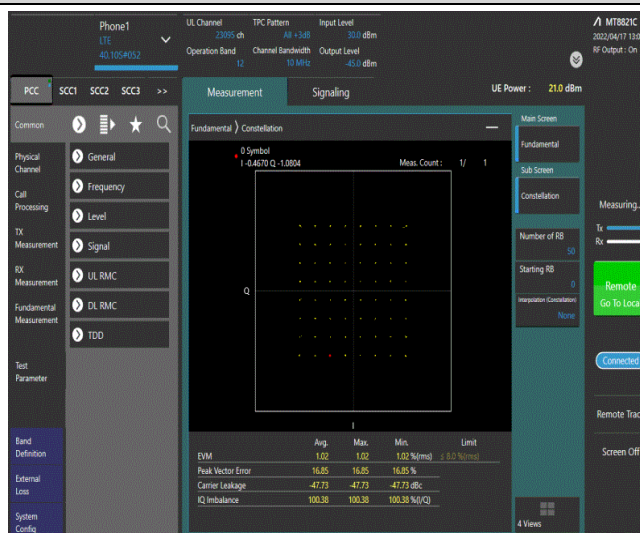
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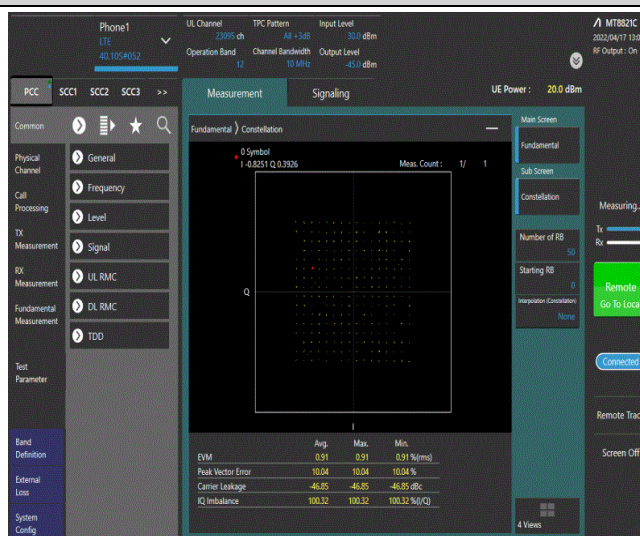
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Band12-10MHz-64QAM-23095-50RB#0



Band12-10MHz-256QAM-23095-50RB#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
Band12	1.4MHz	QPSK	23017	6RB#0	1.093	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.095	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.096	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.094	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.097	1.31	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.095	1.31	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.094	1.31	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	1.087	1.28	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.698	2.93	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.699	2.96	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.693	2.93	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.694	2.93	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.693	2.93	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.69	2.92	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.691	2.93	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.689	2.93	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.691	2.93	PASS
Band12	3MHz	256QAM	23025	15RB#0	2.689	2.94	PASS
Band12	3MHz	256QAM	23095	15RB#0	2.691	2.94	PASS
Band12	3MHz	256QAM	23165	15RB#0	2.69	2.95	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.46	4.96	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.46	4.86	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.463	4.83	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.464	4.83	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.461	4.84	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.461	4.82	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.467	4.87	PASS



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Band12	5MHz	64QAM	23095	25RB#0	4.466	4.86	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.467	4.86	PASS
Band12	5MHz	256QAM	23035	25RB#0	4.466	4.83	PASS
Band12	5MHz	256QAM	23095	25RB#0	4.467	4.82	PASS
Band12	5MHz	256QAM	23155	25RB#0	4.464	4.83	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.929	9.62	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.922	9.58	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.931	9.64	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.922	9.66	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.908	9.68	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.914	9.98	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.941	9.60	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.921	9.68	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.927	9.62	PASS
Band12	10MHz	256QAM	23060	50RB#0	8.917	9.56	PASS
Band12	10MHz	256QAM	23095	50RB#0	8.922	9.50	PASS
Band12	10MHz	256QAM	23130	50RB#0	8.915	9.80	PASS



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Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0



Band12-1.4MHz-QPSK-23095-6RB#0



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Band12-1.4MHz-QPSK-23173-6RB#0



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Band12-1.4MHz-16QAM-23017-6RB#0



05:17:24 09.03.2023



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05:18:37 09.03.2023

Band12-1.4MHz-16QAM-23173-6RB#0



05:19:49 09.03.2023



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Band12-1.4MHz-256QAM-23017-6RB#0



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Band12-1.4MHz-256QAM-23173-6RB#0



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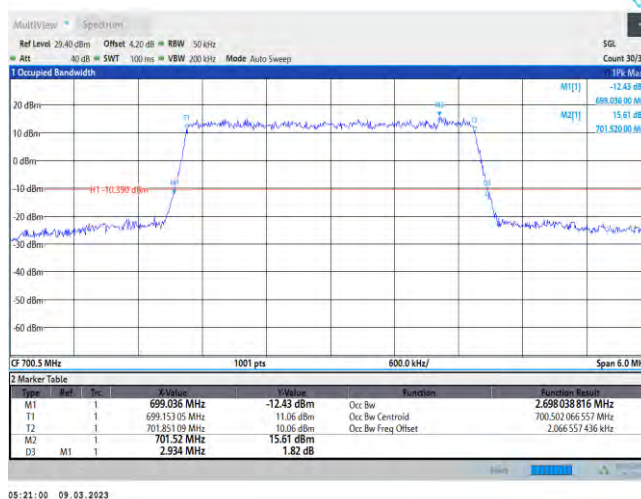
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Band12-3MHz-QPSK-23095-15RB#0



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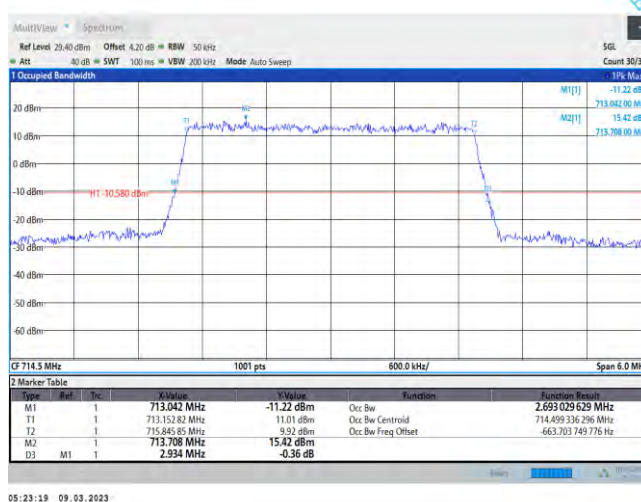
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Band12-3MHz-QPSK-23165-15RB#0



Band12-3MHz-16QAM-23025-15RB#0



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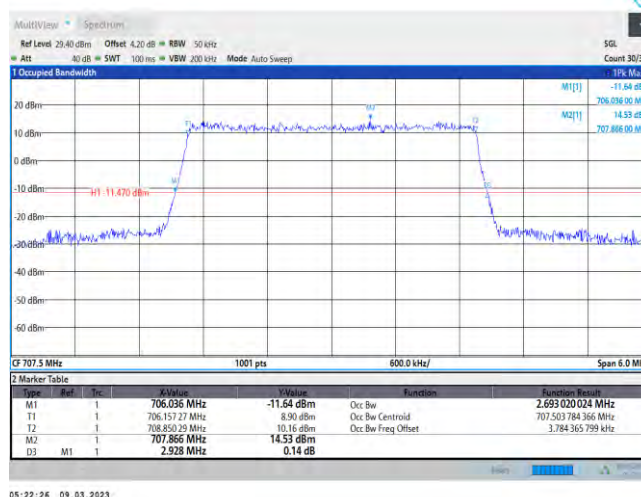
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Report No.: SEWA2303000029RG01

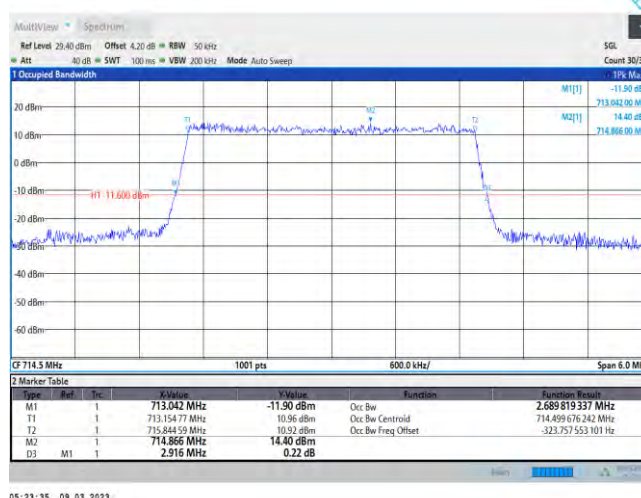
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Band12-3MHz-16QAM-23095-15RB#0



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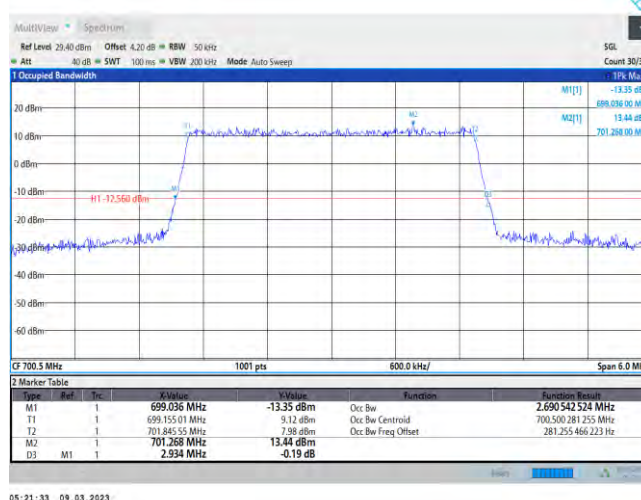
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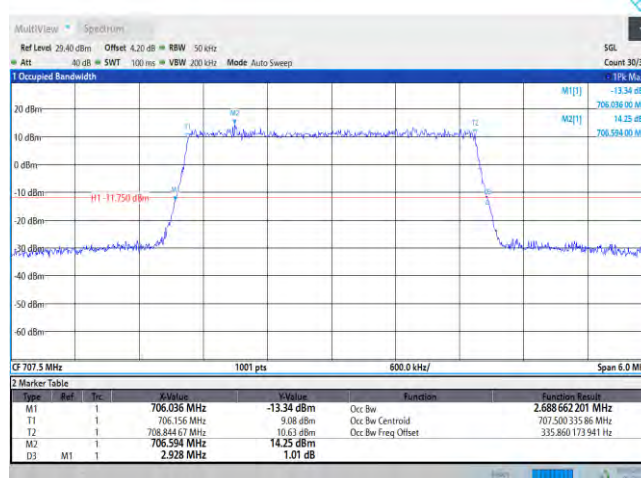
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Band12-3MHz-64QAM-23095-15RB#0



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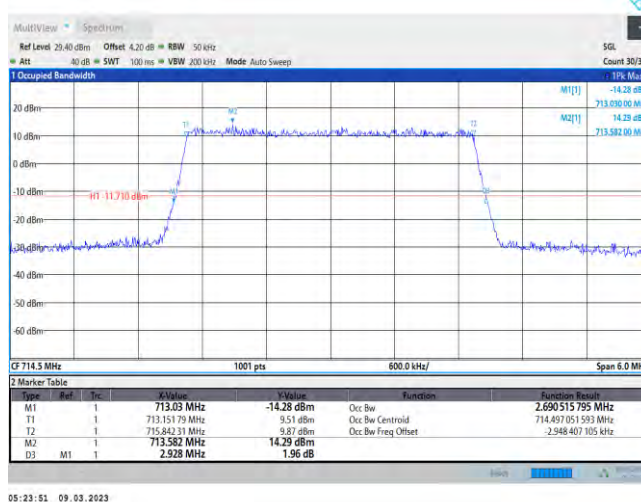
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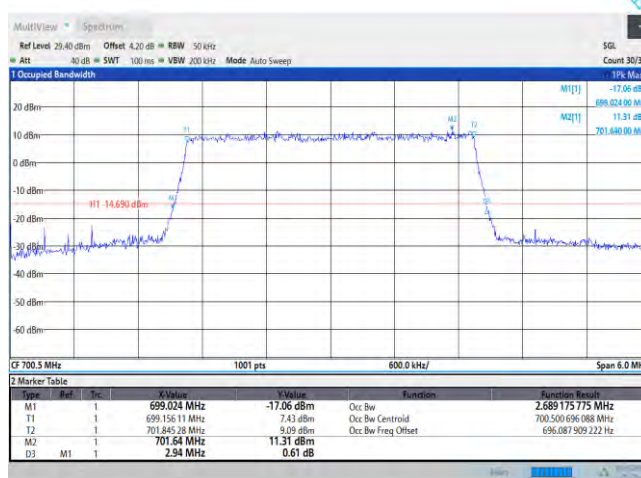
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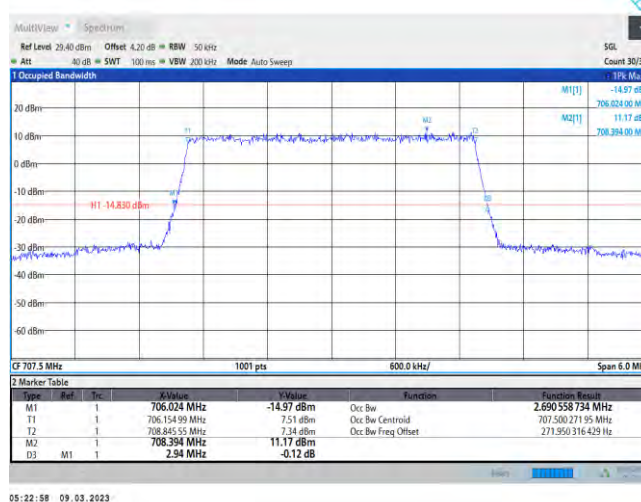
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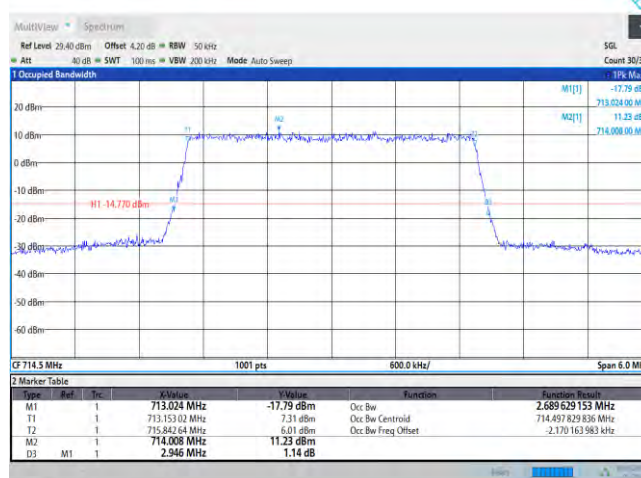
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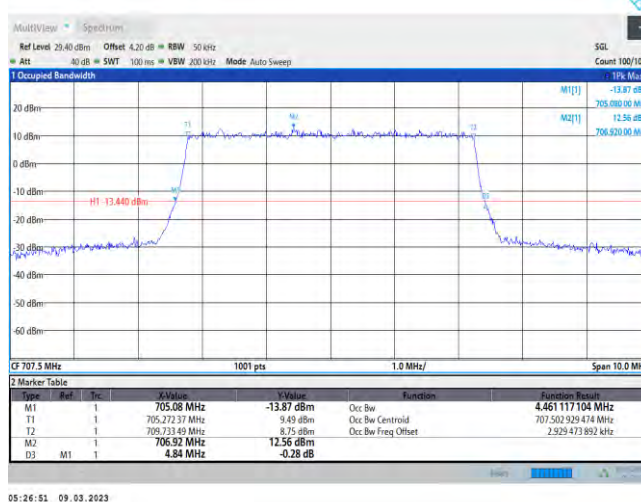
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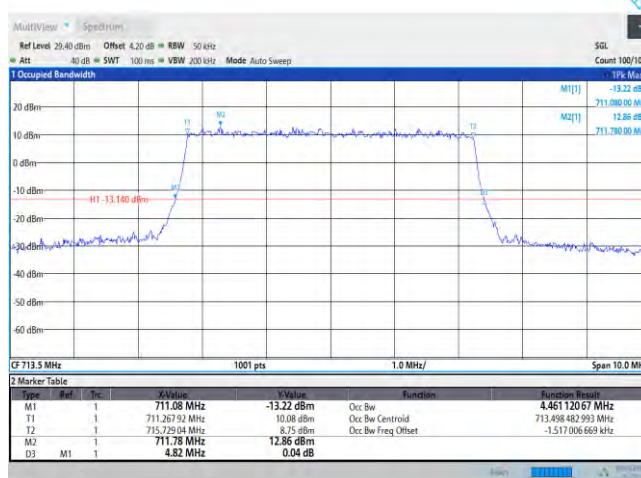
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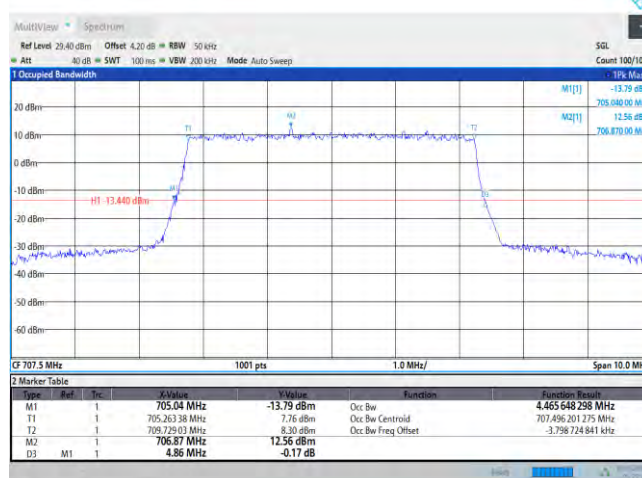
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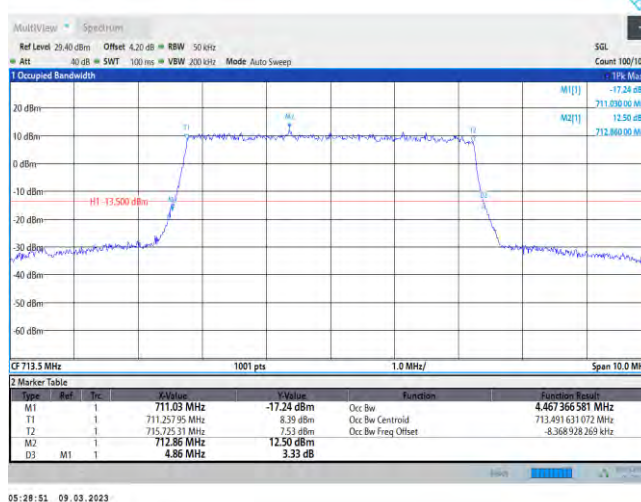
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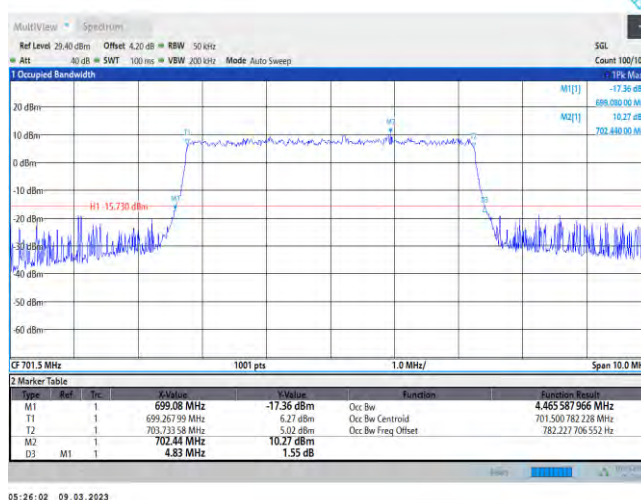
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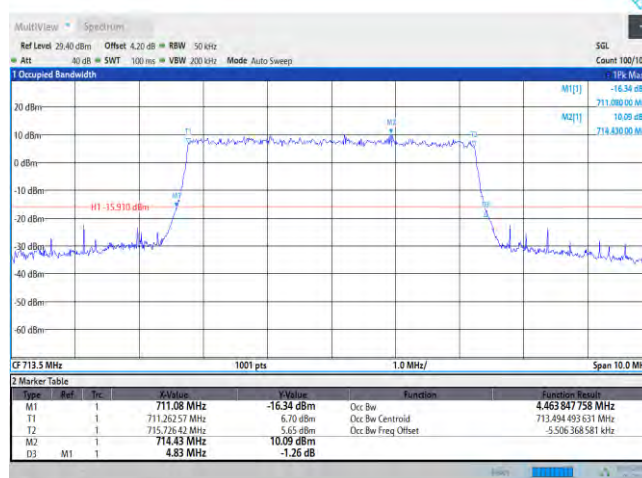
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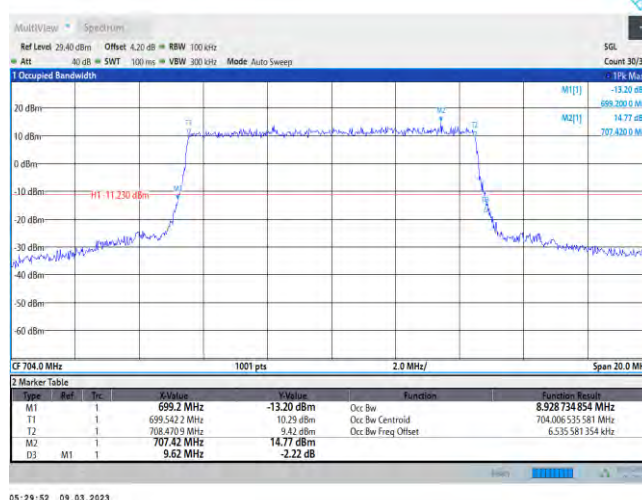
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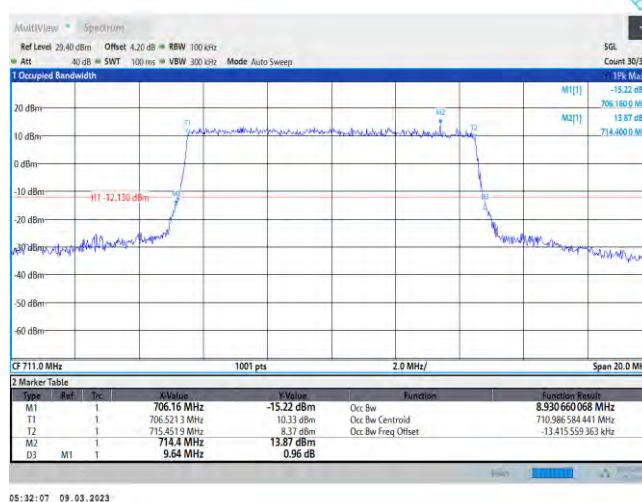
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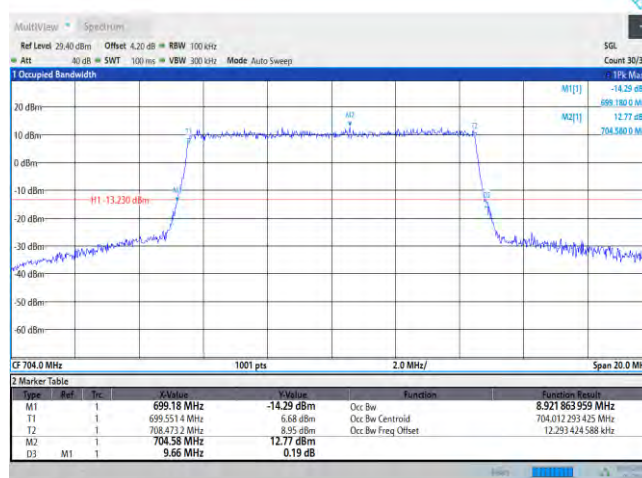
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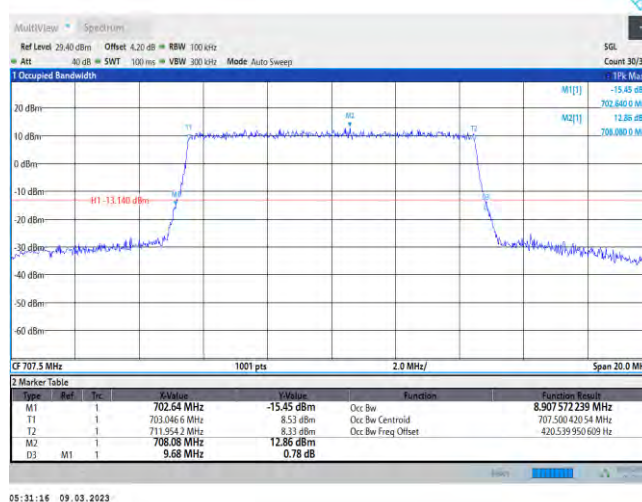
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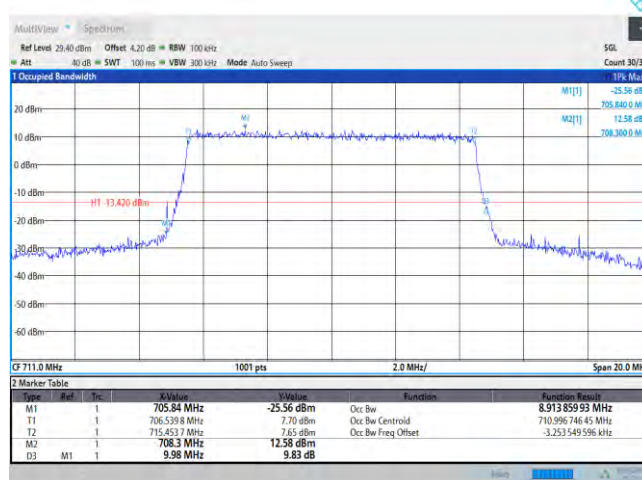
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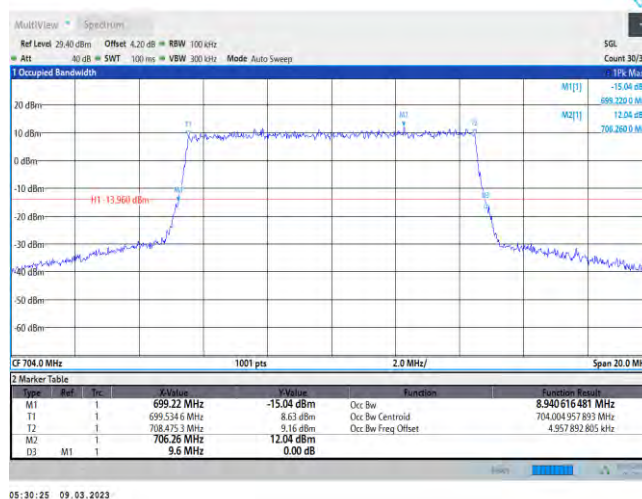
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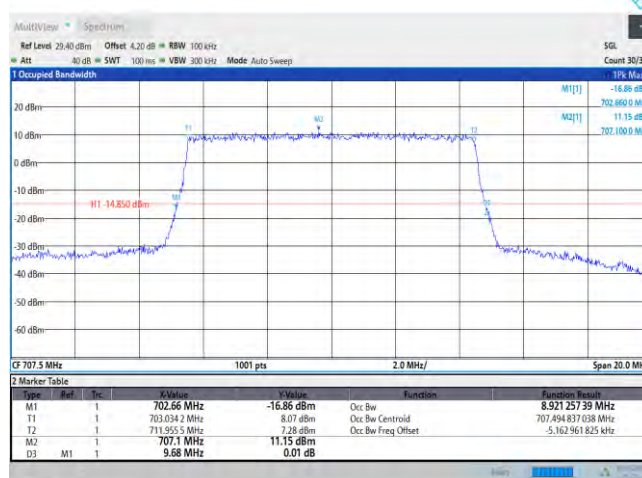
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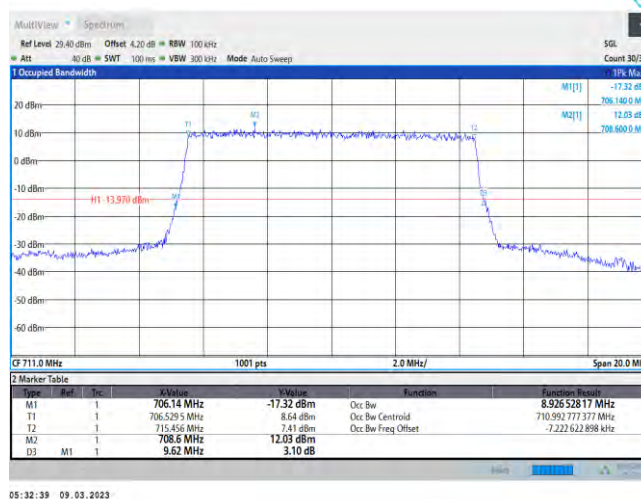
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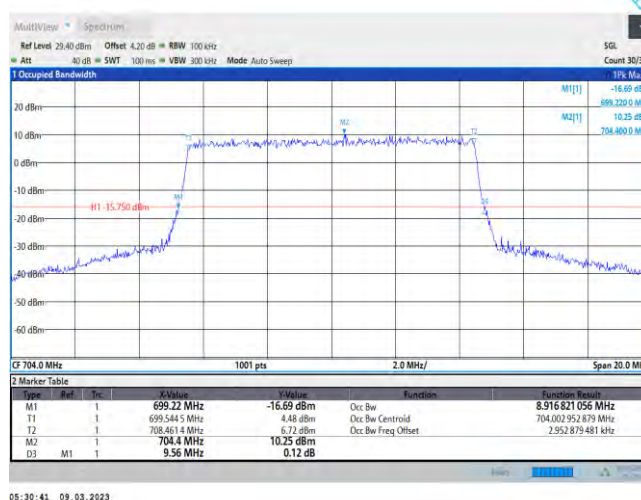
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Band Edge

Test Graphs

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Band12-1.4MHz-QPSK-23017-6RB#0



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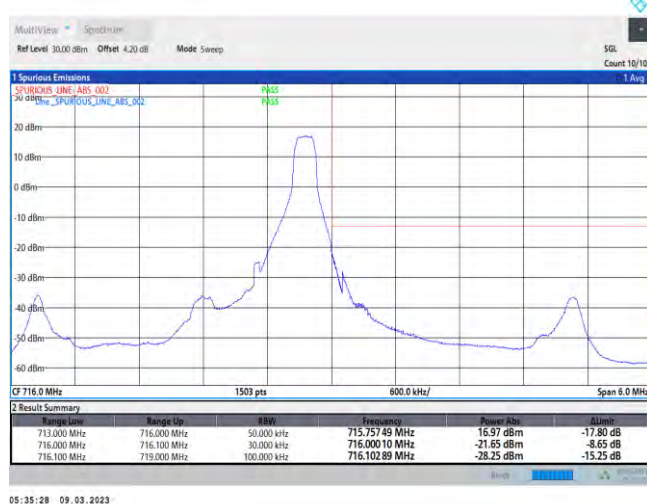
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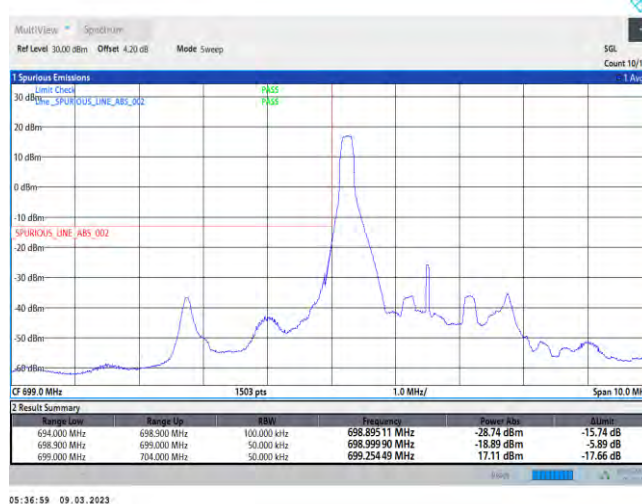
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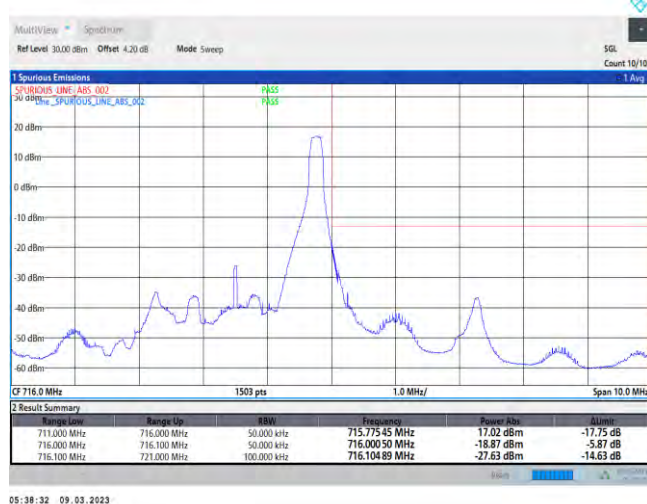
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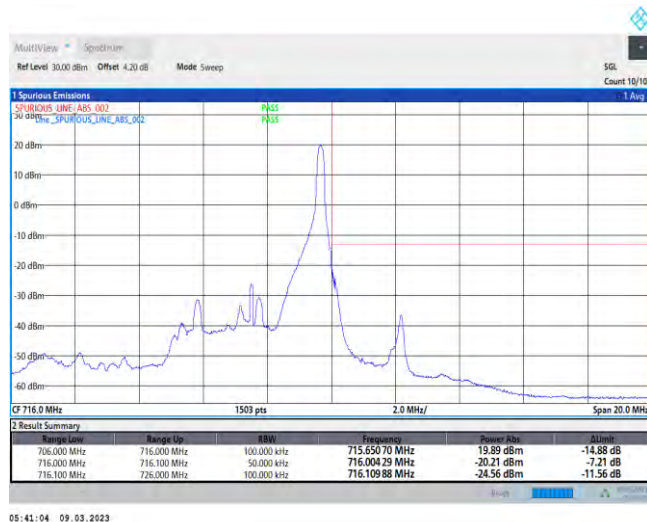
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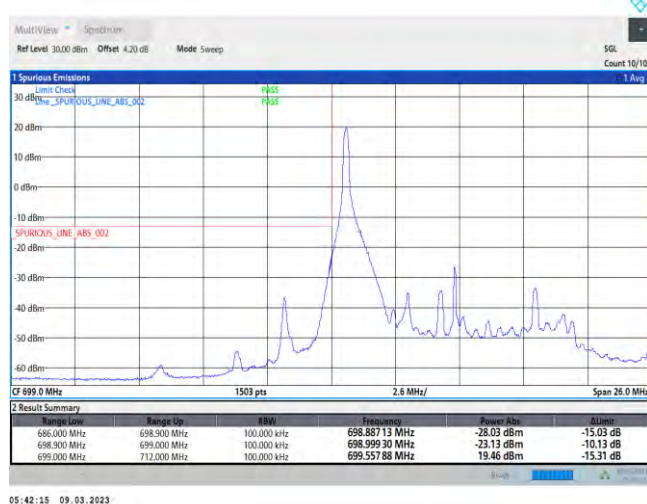
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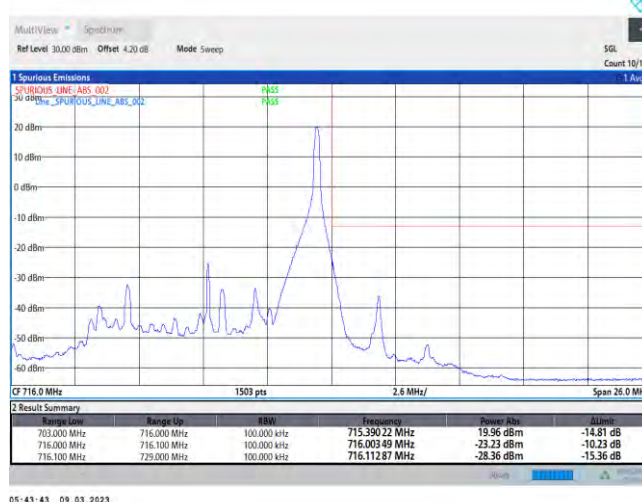
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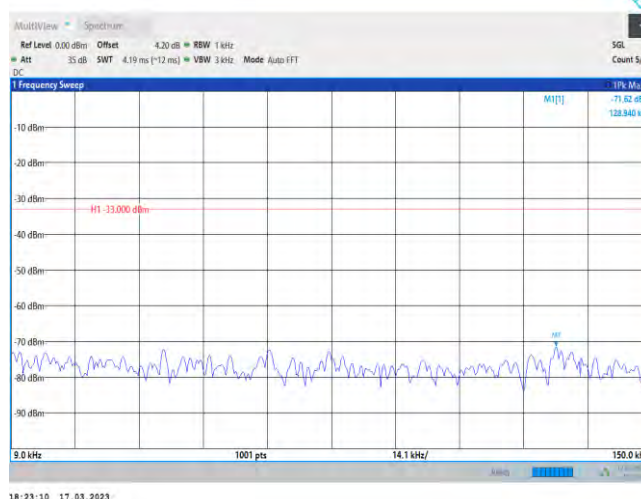
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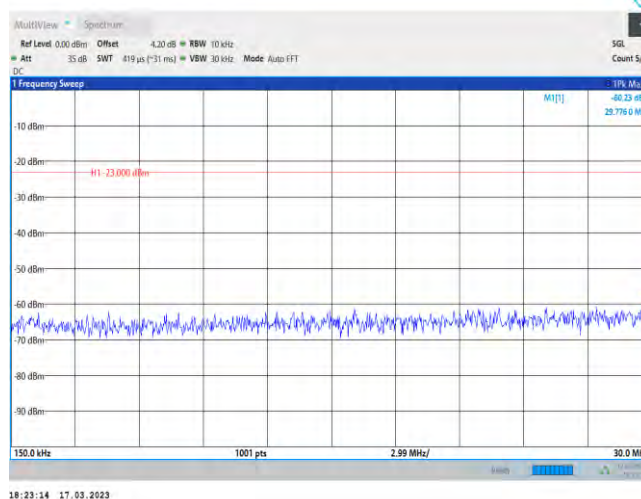
Conducted Spurious Emission

Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



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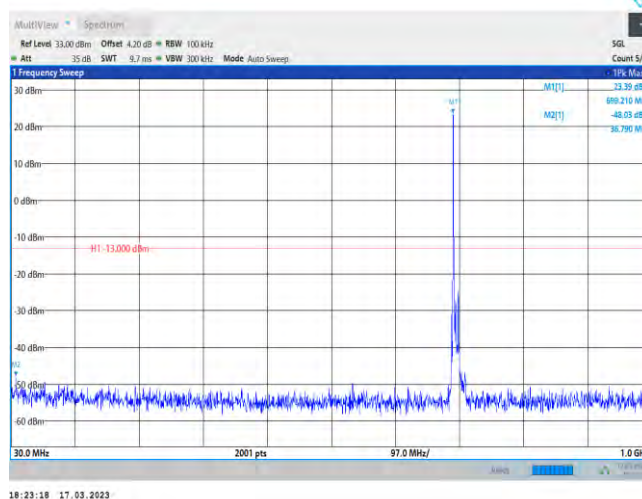
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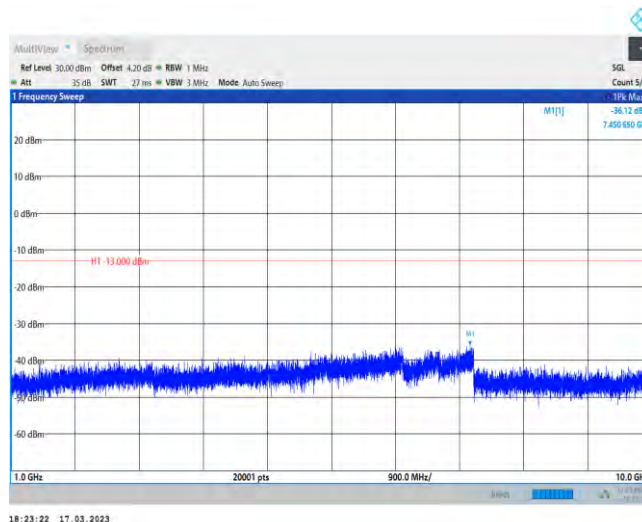
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



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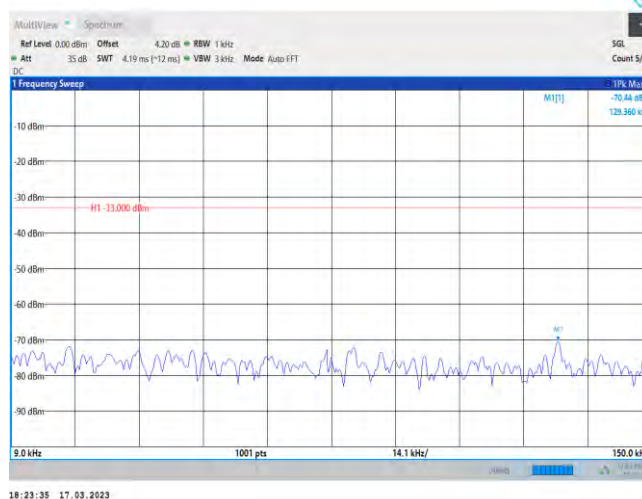
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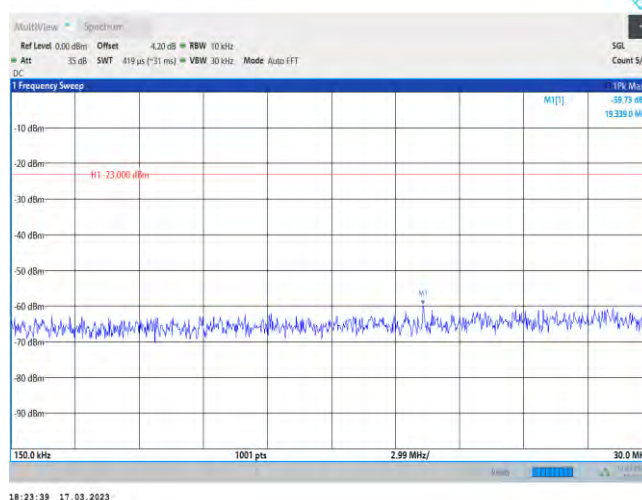
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



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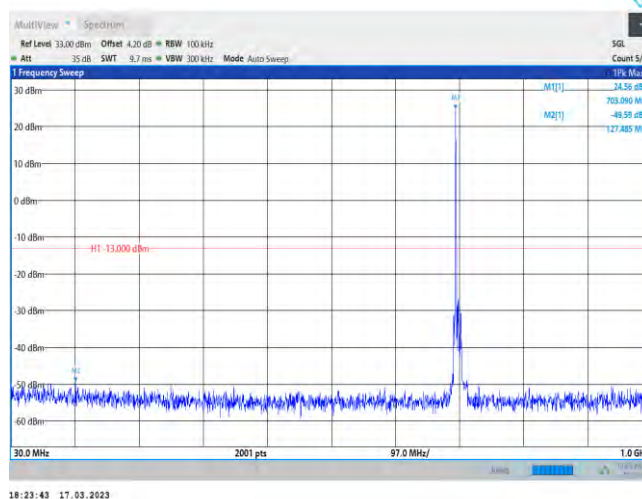
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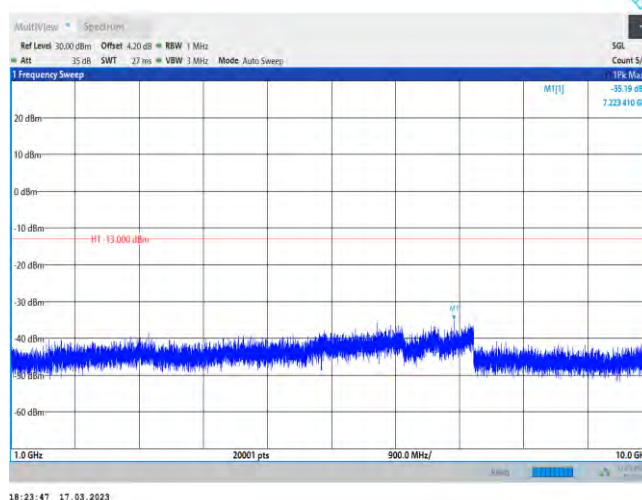
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



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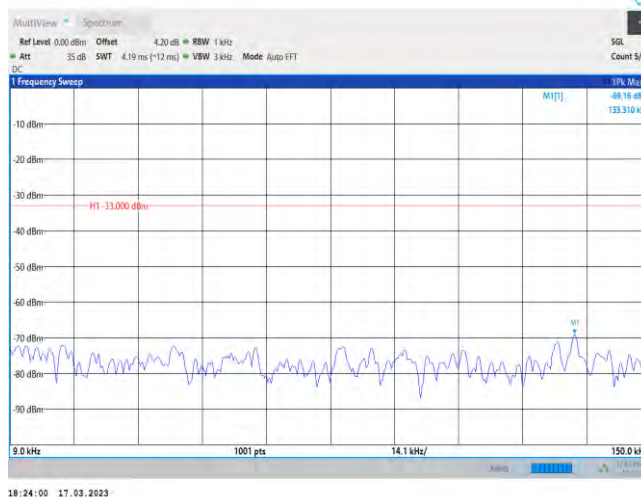
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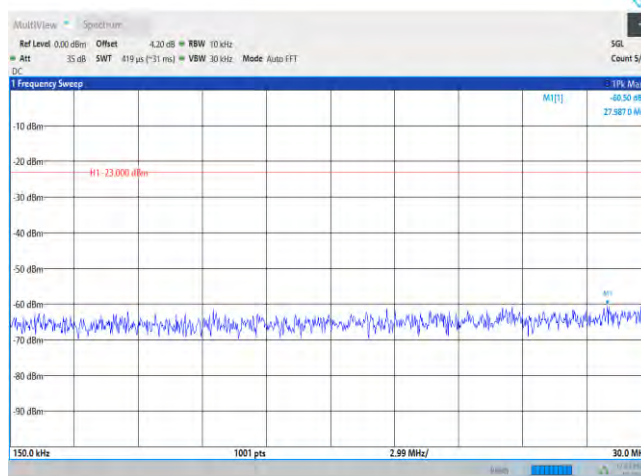
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



18:24:00 17.03.2023

Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



18:24:04 17.03.2023



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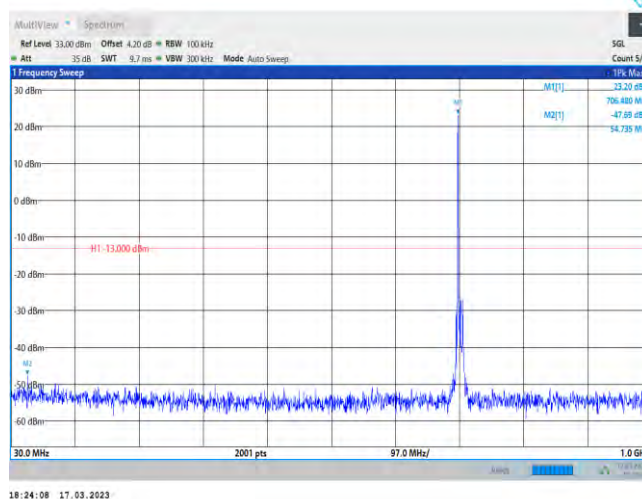
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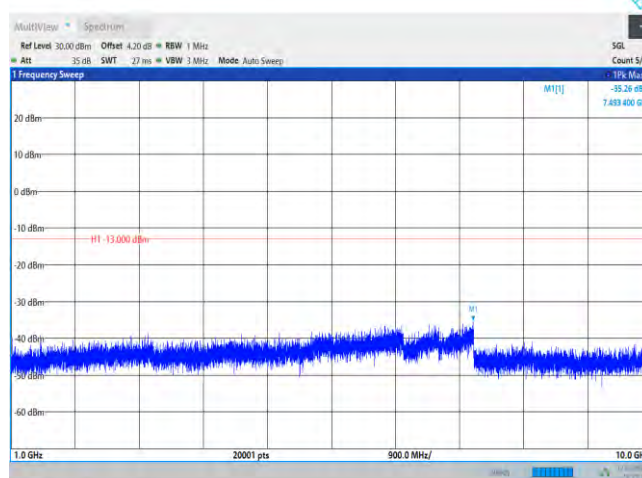
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



18:24:08 17.03.2023

Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



18:24:12 17.03.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band12_10MHz _ 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	1406.2857	56.81	-48.02	25.61	-60.86	-13.00	47.86	147	51	Horizontal
2	2098.7700	42.88	-47.71	26.99	-73.11	-13.00	60.11	215	280	Horizontal
3	2812.5714	46.29	-46.88	28.53	-67.31	-13.00	54.31	196	97	Horizontal
4	3497.9500	42.36	-46.54	29.52	-69.92	-13.00	56.92	236	97	Horizontal
5	4197.5400	41.26	-45.96	31.10	-68.86	-13.00	55.86	225	51	Horizontal
6	4897.1300	42.36	-45.58	32.59	-65.89	-13.00	52.89	184	314	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	1406.2857	60.51	-48.02	25.61	-57.16	-13.00	44.16	287	347	Vertical
2	2098.7700	43.18	-47.71	26.99	-72.81	-13.00	59.81	149	250	Vertical
3	2812.5714	51.12	-46.88	28.53	-62.48	-13.00	49.48	235	189	Vertical
4	3497.9500	43.04	-46.54	29.52	-69.24	-13.00	56.24	228	328	Vertical
5	4218.8571	45.99	-45.93	31.14	-64.06	-13.00	51.06	165	307	Vertical
6	4897.1300	42.08	-45.58	32.59	-66.17	-13.00	53.17	187	96	Vertical



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Test Band = LTE Band12_10MHz _ 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	1406.1800	56.99	-48.02	25.61	-60.68	-13.00	47.68	287	40	Horizontal
2	2109.2700	42.99	-47.71	27.02	-72.95	-13.00	59.95	146	96	Horizontal
3	2812.3600	46.01	-46.88	28.53	-67.59	-13.00	54.59	235	188	Horizontal
4	3515.4500	42.50	-46.51	29.53	-69.73	-13.00	56.73	221	184	Horizontal
5	4218.5400	42.81	-45.93	31.14	-67.24	-13.00	54.24	196	240	Horizontal
6	4921.6300	42.60	-45.63	32.66	-65.63	-13.00	52.63	205	202	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	1406.1800	60.98	-48.02	25.61	-56.69	-13.00	43.69	135	334	Vertical
2	2109.2700	43.69	-47.71	27.02	-72.25	-13.00	59.25	264	0	Vertical
3	2812.3600	51.84	-46.88	28.53	-61.76	-13.00	48.76	224	203	Vertical
4	3515.4500	42.38	-46.51	29.53	-69.85	-13.00	56.85	151	195	Vertical
5	4218.5400	46.45	-45.93	31.14	-63.60	-13.00	50.60	189	307	Vertical
6	4921.6300	42.03	-45.63	32.66	-66.20	-13.00	53.20	262	3	Vertical



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Test Band = LTE Band12_10MHz _ 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	1406.2857	56.52	-48.02	25.61	-61.15	-13.00	48.15	251	51	Horizontal
2	2119.7700	42.99	-47.70	27.06	-72.91	-13.00	59.91	236	97	Horizontal
3	2826.3600	42.91	-46.83	28.60	-70.58	-13.00	57.58	187	46	Horizontal
4	3532.9500	42.96	-46.47	29.55	-69.22	-13.00	56.22	149	230	Horizontal
5	4239.5400	41.06	-45.89	31.18	-68.91	-13.00	55.91	266	3	Horizontal
6	4946.1300	41.70	-45.69	32.73	-66.52	-13.00	53.52	203	84	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	1406.2857	59.76	-48.02	25.61	-57.91	-13.00	44.91	256	336	Vertical
2	2119.7700	43.65	-47.70	27.06	-72.25	-13.00	59.25	197	0	Vertical
3	2826.3600	43.61	-46.83	28.60	-69.88	-13.00	56.88	206	12	Vertical
4	3532.9500	42.54	-46.47	29.55	-69.64	-13.00	56.64	135	178	Vertical
5	4239.5400	41.83	-45.89	31.18	-68.14	-13.00	55.14	216	133	Vertical
6	4946.1300	41.76	-45.69	32.73	-66.46	-13.00	53.46	247	190	Vertical



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Test Band = LTE 12A_25A_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	1399.1800	27.35	-25.24	25.62	-67.53	-13.00	54.53	134	175	Horizontal
2	2098.7700	27.79	-24.20	26.99	-64.68	-13.00	51.68	218	281	Horizontal
3	2798.3600	28.14	-22.56	28.48	-61.21	-13.00	48.21	159	105	Horizontal
4	3702.1800	40.59	-45.51	29.98	-70.20	-13.00	57.20	216	342	Horizontal
5	5553.2700	40.99	-45.15	32.97	-66.45	-13.00	53.45	206	14	Horizontal
6	7404.3600	40.33	-43.40	36.49	-61.84	-13.00	48.84	228	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	1399.1800	27.51	-25.24	25.62	-67.37	-13.00	54.37	278	85	Vertical
2	2098.7700	27.95	-24.20	26.99	-64.52	-13.00	51.52	195	19	Vertical
3	2798.3600	27.84	-22.56	28.48	-61.51	-13.00	48.51	152	107	Vertical
4	3702.1800	40.54	-45.51	29.98	-70.25	-13.00	57.25	175	360	Vertical
5	5553.2700	40.15	-45.15	32.97	-67.29	-13.00	54.29	235	224	Vertical
6	7404.3600	39.40	-43.40	36.49	-62.77	-13.00	49.77	185	360	Vertical



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t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Test Band = LTE 12A_25A_ 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	1406.1800	28.53	-25.24	25.61	-66.35	-13.00	53.35	218	65	Horizontal
2	2109.2700	27.95	-24.19	27.02	-64.48	-13.00	51.48	195	183	Horizontal
3	2812.3600	27.76	-22.61	28.54	-61.58	-13.00	48.58	226	3	Horizontal
4	3742.1800	40.75	-45.68	30.12	-70.07	-13.00	57.07	235	360	Horizontal
5	5613.2700	40.05	-45.04	33.07	-67.18	-13.00	54.18	287	194	Horizontal
6	7484.3600	38.11	-43.18	36.45	-63.88	-13.00	50.88	174	239	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	1406.1800	27.97	-25.24	25.61	-66.91	-13.00	53.91	188	115	Vertical
2	2109.2700	27.83	-24.19	27.02	-64.60	-13.00	51.60	219	303	Vertical
3	2812.3600	27.91	-22.61	28.54	-61.43	-13.00	48.43	275	25	Vertical
4	3742.1800	40.62	-45.68	30.12	-70.20	-13.00	57.20	156	331	Vertical
5	5613.2700	40.08	-45.04	33.07	-67.15	-13.00	54.15	302	182	Vertical
6	7484.3600	38.16	-43.18	36.45	-63.83	-13.00	50.83	174	90	Vertical



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Test Band = LTE 12A_25A_ 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	1413.1800	27.77	-25.23	25.60	-67.12	-13.00	54.12	188	357	Horizontal
2	2119.7700	27.78	-24.18	27.06	-64.60	-13.00	51.60	296	303	Horizontal
3	2826.3600	27.56	-22.67	28.60	-61.77	-13.00	48.77	235	28	Horizontal
4	3792.1800	41.56	-45.89	30.30	-69.29	-13.00	56.29	145	360	Horizontal
5	5688.2700	40.22	-44.87	33.34	-66.57	-13.00	53.57	226	360	Horizontal
6	7584.3600	38.63	-42.96	36.40	-63.19	-13.00	50.19	201	4	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	1413.1800	27.75	-25.23	25.60	-67.14	-13.00	54.14	174	185	Vertical
2	2119.7700	27.73	-24.18	27.06	-64.65	-13.00	51.65	215	283	Vertical
3	2826.3600	27.73	-22.67	28.60	-61.60	-13.00	48.60	166	233	Vertical
4	3792.1800	41.54	-45.89	30.30	-69.31	-13.00	56.31	215	300	Vertical
5	5688.2700	40.35	-44.87	33.34	-66.44	-13.00	53.44	239	330	Vertical
6	7584.3600	37.94	-42.96	36.40	-63.88	-13.00	50.88	228	118	Vertical



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t (86-512) 62992980 sgs.china@sgs.com

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Test Band = LTE 12A_30A_ 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	1399.1800	36.97	-25.24	25.62	-57.91	-40.00	17.91	208	273	Horizontal
2	2098.7700	36.43	-24.20	26.99	-56.04	-40.00	16.04	142	0	Horizontal
3	2798.3600	37.24	-22.56	28.48	-52.11	-40.00	12.11	219	212	Horizontal
4	4610.6800	42.35	-45.66	31.74	-66.83	-40.00	26.83	238	253	Horizontal
5	6916.0200	40.79	-44.01	35.98	-62.50	-40.00	22.50	256	318	Horizontal
6	9221.3600	37.09	-40.24	38.36	-60.06	-40.00	20.06	147	284	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	1399.1800	34.82	-25.24	25.62	-60.06	-40.00	20.06	211	311	Vertical
2	2098.7700	36.40	-24.20	26.99	-56.07	-40.00	16.07	149	162	Vertical
3	2798.3600	37.14	-22.56	28.48	-52.21	-40.00	12.21	265	183	Vertical
4	4610.6800	42.04	-45.66	31.74	-67.14	-40.00	27.14	284	329	Vertical
5	6916.0200	40.95	-44.01	35.98	-62.34	-40.00	22.34	156	360	Vertical
6	9221.3600	37.37	-40.24	38.36	-59.78	-40.00	19.78	214	281	Vertical



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t (86-512) 62992980 sgs.china@sgs.com

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Test Band = LTE 12A_30A_ 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	1406.1800	35.34	-25.24	25.61	-59.54	-40.00	19.54	178	134	Horizontal
2	2109.2700	36.38	-24.19	27.02	-56.05	-40.00	16.05	146	114	Horizontal
3	2812.3600	36.99	-22.61	28.54	-52.35	-40.00	12.35	215	222	Horizontal
4	4615.6800	42.22	-45.66	31.76	-66.94	-40.00	26.94	238	192	Horizontal
5	6923.5200	41.07	-43.97	35.99	-62.17	-40.00	22.17	215	352	Horizontal
6	9231.3600	36.72	-40.24	38.36	-60.42	-40.00	20.42	126	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	1406.1800	35.00	-25.24	25.61	-59.88	-40.00	19.88	274	304	Vertical
2	2109.2700	36.30	-24.19	27.02	-56.13	-40.00	16.13	148	272	Vertical
3	2812.3600	37.01	-22.61	28.54	-52.33	-40.00	12.33	264	262	Vertical
4	4615.6800	42.33	-45.66	31.76	-66.83	-40.00	26.83	138	240	Vertical
5	6923.5200	40.82	-43.97	35.99	-62.42	-40.00	22.42	211	46	Vertical
6	9231.3600	37.23	-40.24	38.36	-59.91	-40.00	19.91	198	360	Vertical



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Test Band = LTE 12A_30A_ 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	1413.1800	35.23	-25.23	25.60	-59.66	-40.00	19.66	224	83	Horizontal
2	2119.7700	36.32	-24.18	27.06	-56.06	-40.00	16.06	164	122	Horizontal
3	2826.3600	36.61	-22.67	28.60	-52.72	-40.00	12.72	185	73	Horizontal
4	4620.6800	41.64	-45.66	31.77	-67.50	-40.00	27.50	163	332	Horizontal
5	6931.0200	40.83	-43.93	36.00	-62.36	-40.00	22.36	292	226	Horizontal
6	9241.3200	36.75	-40.24	38.37	-60.38	-40.00	20.38	261	212	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	1413.1800	35.13	-25.23	25.60	-59.76	-40.00	19.76	237	319	Vertical
2	2119.7700	36.45	-24.18	27.06	-55.93	-40.00	15.93	188	123	Vertical
3	2826.3600	36.71	-22.67	28.60	-52.62	-40.00	12.62	249	76	Vertical
4	4620.6800	41.63	-45.66	31.77	-67.51	-40.00	27.51	156	17	Vertical
5	6931.0200	41.63	-43.93	36.00	-61.56	-40.00	21.56	213	221	Vertical
6	9241.3200	37.07	-40.24	38.37	-60.06	-40.00	20.06	183	297	Vertical



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Test Band = LTE 12A_38A_ 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	1406	32.17	-25.24	25.61	-62.71	-25.00	37.71	284	53	Horizontal
2	2098.7700	29.18	-24.20	26.99	-63.29	-25.00	38.29	166	0	Horizontal
3	2798.3600	29.13	-22.56	28.48	-60.22	-25.00	35.22	294	23	Horizontal
4	5156.25	45.85	-45.32	32.97	-61.76	-25.00	36.76	126	352	Horizontal
5	7713.2700	40.71	-43.01	36.61	-60.95	-25.00	35.95	213	357	Horizontal
6	10284.3600	35.03	-39.15	38.83	-60.55	-25.00	35.55	255	164	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	1406	31.51	-25.24	25.61	-63.37	-25.00	38.37	287	112	Vertical
2	2098.7700	29.19	-24.20	26.99	-63.28	-25.00	38.28	149	153	Vertical
3	2798.3600	29.31	-22.56	28.48	-60.04	-25.00	35.04	265	4	Vertical
4	5156.25	50.61	-45.32	32.97	-57.00	-25.00	32.00	185	239	Vertical
5	7713.2700	40.23	-43.01	36.61	-61.43	-25.00	36.43	122	42	Vertical
6	10284.3600	35.33	-39.15	38.83	-60.25	-25.00	35.25	211	328	Vertical



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Test Band = LTE 12A_38A_ 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	1406.1800	30.64	-25.24	25.61	-64.24	-25.00	39.24	325	62	Horizontal
2	2109.2700	29.25	-24.19	27.02	-63.18	-25.00	38.18	168	156	Horizontal
3	2812.3600	29.42	-22.61	28.54	-59.92	-25.00	34.92	294	34	Horizontal
4	5156.25	45.98	-45.32	32.97	-61.63	-25.00	36.63	122	343	Horizontal
5	7758.2700	40.68	-42.64	36.70	-60.52	-25.00	35.52	186	104	Horizontal
6	10344.3600	36.18	-39.05	38.85	-59.29	-25.00	34.29	237	29	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	1406.1800	30.75	-25.24	25.61	-64.13	-25.00	39.13	206	331	Vertical
2	2109.2700	29.16	-24.19	27.02	-63.27	-25.00	38.27	293	85	Vertical
3	2812.3600	29.50	-22.61	28.54	-59.84	-25.00	34.84	227	357	Vertical
4	5156.25	51.15	-45.32	32.97	-56.46	-25.00	31.46	154	239	Vertical
5	7758.2700	40.06	-42.64	36.70	-61.14	-25.00	36.14	201	43	Vertical
6	10344.3600	35.90	-39.05	38.85	-59.57	-25.00	34.57	136	178	Vertical



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t (86-512) 62992980 sgs.china@sgs.com

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Test Band = LTE 12A_38A_ 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	1413.1800	29.06	-25.23	25.60	-65.83	-25.00	40.83	285	269	Horizontal
2	2119.7700	28.96	-24.18	27.06	-63.42	-25.00	38.42	196	0	Horizontal
3	2826.3600	28.83	-22.67	28.60	-60.50	-25.00	35.50	235	86	Horizontal
4	5202.1800	41.73	-45.27	32.99	-65.82	-25.00	40.82	114	302	Horizontal
5	7803.2700	39.29	-42.33	36.78	-61.51	-25.00	36.51	264	164	Horizontal
6	10404.3600	34.79	-39.00	38.86	-60.61	-25.00	35.61	123	239	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	1413.1800	28.91	-25.23	25.60	-65.98	-25.00	40.98	254	7	Vertical
2	2119.7700	29.00	-24.18	27.06	-63.38	-25.00	38.38	189	46	Vertical
3	2826.3600	28.79	-22.67	28.60	-60.54	-25.00	35.54	265	30	Vertical
4	5202.1800	42.41	-45.27	32.99	-65.14	-25.00	40.14	288	356	Vertical
5	7803.2700	39.63	-42.33	36.78	-61.17	-25.00	36.17	194	104	Vertical
6	10404.3600	34.86	-39.00	38.86	-60.54	-25.00	35.54	136	360	Vertical



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Test Band = LTE 12A_41A_ 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	1399.1800	28.79	-25.24	25.62	-66.09	-25.00	41.09	127	3	Horizontal
2	2098.7700	29.21	-24.20	26.99	-63.26	-25.00	38.26	216	251	Horizontal
3	2798.3600	29.38	-22.56	28.48	-59.97	-25.00	34.97	224	7	Horizontal
4	4994.1800	41.60	-45.63	32.86	-66.43	-25.00	41.43	163	360	Horizontal
5	7491.2700	39.79	-43.16	36.44	-62.19	-25.00	37.19	258	305	Horizontal
6	9988.3600	37.32	-39.25	38.47	-58.72	-25.00	33.72	169	75	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	1399.1800	28.60	-25.24	25.62	-66.28	-25.00	41.28	262	1	Vertical
2	2098.7700	29.08	-24.20	26.99	-63.39	-25.00	38.39	159	63	Vertical
3	2798.3600	29.25	-22.56	28.48	-60.10	-25.00	35.10	234	0	Vertical
4	4994.1800	41.73	-45.63	32.86	-66.30	-25.00	41.30	142	344	Vertical
5	7491.2700	39.77	-43.16	36.44	-62.21	-25.00	37.21	166	239	Vertical
6	9988.3600	37.07	-39.25	38.47	-58.97	-25.00	33.97	219	194	Vertical



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Test Band = LTE 12A_41A_ 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	1406.1800	31.05	-25.24	25.61	-63.83	-25.00	38.83	284	46	Horizontal
2	2109.2700	29.17	-24.19	27.02	-63.26	-25.00	38.26	194	115	Horizontal
3	2812.3600	29.27	-22.61	28.54	-60.07	-25.00	35.07	226	7	Horizontal
4	5156.25	46.72	-45.32	32.97	-60.89	-25.00	35.89	238	150	Horizontal
5	7752.2700	40.66	-42.69	36.69	-60.60	-25.00	35.60	241	328	Horizontal
6	10336.3600	36.09	-39.06	38.84	-59.39	-25.00	34.39	139	28	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	1406.1800	30.48	-25.24	25.61	-64.40	-25.00	39.40	295	322	Vertical
2	2109.2700	29.00	-24.19	27.02	-63.43	-25.00	38.43	184	145	Vertical
3	2812.3600	29.37	-22.61	28.54	-59.97	-25.00	34.97	156	302	Vertical
4	5156.25	51.40	-45.32	32.97	-56.21	-25.00	31.21	223	239	Vertical
5	7752.2700	40.87	-42.69	36.69	-60.39	-25.00	35.39	186	135	Vertical
6	10336.3600	37.26	-39.06	38.84	-58.22	-25.00	33.22	229	286	Vertical



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Test Band = LTE 12A_41A_ 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	1413.1800	28.94	-25.23	25.60	-65.95	-25.00	40.95	289	263	Horizontal
2	2119.7700	29.00	-24.18	27.06	-63.38	-25.00	38.38	214	29	Horizontal
3	2826.3600	29.08	-22.67	28.60	-60.25	-25.00	35.25	165	203	Horizontal
4	5342.1800	41.73	-45.18	32.85	-65.85	-25.00	40.85	229	360	Horizontal
5	8013.2700	40.04	-42.21	37.01	-60.42	-25.00	35.42	134	148	Horizontal
6	10684.3600	35.34	-37.97	39.13	-58.76	-25.00	33.76	219	179	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	1413.1800	29.07	-25.23	25.60	-65.82	-25.00	40.82	288	0	Vertical
2	2119.7700	29.31	-24.18	27.06	-63.07	-25.00	38.07	216	135	Vertical
3	2826.3600	28.94	-22.67	28.60	-60.39	-25.00	35.39	229	1	Vertical
4	5342.1800	41.41	-45.18	32.85	-66.17	-25.00	41.17	235	133	Vertical
5	8013.2700	40.31	-42.21	37.01	-60.15	-25.00	35.15	248	268	Vertical
6	10684.3600	34.84	-37.97	39.13	-59.26	-25.00	34.26	142	359	Vertical



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Test Band = LTE 12A_66A_ 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	1399.1800	28.78	-25.24	25.62	-66.10	-13.00	53.10	244	75	Horizontal
2	2098.7700	29.52	-24.20	26.99	-62.95	-13.00	49.95	189	0	Horizontal
3	2798.3600	29.80	-22.56	28.48	-59.55	-13.00	46.55	216	154	Horizontal
4	3404.1800	43.09	-46.28	29.43	-69.02	-13.00	56.02	235	14	Horizontal
5	5106.2700	41.72	-45.36	32.94	-65.97	-13.00	52.97	185	352	Horizontal
6	6808.3600	41.28	-44.16	35.85	-62.29	-13.00	49.29	164	60	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	1399.1800	28.92	-25.24	25.62	-65.96	-13.00	52.96	205	56	Vertical
2	2098.7700	29.16	-24.20	26.99	-63.31	-13.00	50.31	187	56	Vertical
3	2798.3600	29.51	-22.56	28.48	-59.84	-13.00	46.84	199	341	Vertical
4	3404.1800	42.92	-46.28	29.43	-69.19	-13.00	56.19	263	135	Vertical
5	5106.2700	41.56	-45.36	32.94	-66.13	-13.00	53.13	245	360	Vertical
6	6808.3600	41.79	-44.16	35.85	-61.78	-13.00	48.78	154	181	Vertical



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Test Band = LTE 12A_66A_ 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	1406.1800	30.19	-25.24	25.61	-64.69	-13.00	51.69	225	55	Horizontal
2	2109.2700	29.28	-24.19	27.02	-63.15	-13.00	50.15	174	214	Horizontal
3	2812.3600	29.22	-22.61	28.54	-60.12	-13.00	47.12	168	357	Horizontal
4	3454.1800	43.50	-46.27	29.48	-68.55	-13.00	55.55	193	14	Horizontal
5	5181.2700	41.30	-45.30	32.98	-66.28	-13.00	53.28	204	344	Horizontal
6	6908.3600	41.11	-44.05	35.97	-62.23	-13.00	49.23	132	283	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	1406.1800	29.56	-25.24	25.61	-65.32	-13.00	52.32	142	107	Vertical
2	2109.2700	29.25	-24.19	27.02	-63.18	-13.00	50.18	163	30	Vertical
3	2812.3600	29.30	-22.61	28.54	-60.04	-13.00	47.04	299	322	Vertical
4	3454.1800	43.21	-46.27	29.48	-68.84	-13.00	55.84	187	360	Vertical
5	5181.2700	41.88	-45.30	32.98	-65.70	-13.00	52.70	302	74	Vertical
6	6908.3600	40.82	-44.05	35.97	-62.52	-13.00	49.52	162	360	Vertical



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Test Band = LTE 12A_66A_ 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	1413.1800	29.35	-25.23	25.60	-65.54	-13.00	52.54	214	274	Horizontal
2	2119.7700	29.63	-24.18	27.06	-62.75	-13.00	49.75	266	2	Horizontal
3	2826.3600	28.96	-22.67	28.60	-60.37	-13.00	47.37	153	48	Horizontal
4	3504.1800	43.19	-46.25	29.52	-68.80	-13.00	55.80	284	301	Horizontal
5	5256.2700	42.09	-45.17	32.94	-65.41	-13.00	52.41	159	242	Horizontal
6	7008.3600	40.46	-43.61	36.10	-62.31	-13.00	49.31	204	90	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	1413.1800	29.05	-25.23	25.60	-65.84	-13.00	52.84	178	165	Vertical
2	2119.7700	29.21	-24.18	27.06	-63.17	-13.00	50.17	284	283	Vertical
3	2826.3600	29.16	-22.67	28.60	-60.17	-13.00	47.17	169	207	Vertical
4	3504.1800	43.13	-46.25	29.52	-68.86	-13.00	55.86	306	285	Vertical
5	5256.2700	42.50	-45.17	32.94	-65.00	-13.00	52.00	268	285	Vertical
6	7008.3600	40.37	-43.61	36.10	-62.40	-13.00	49.40	155	87	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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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-4.70	-0.006643	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-1.30	-0.001837	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-4.30	-0.006078	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-4.60	-0.006502	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-3.20	-0.004523	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-1.40	-0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-0.80	-0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.60	-0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-1.50	-0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-4.90	-0.006926	PASS

---End of Attachment---



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com