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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	22.79	22.22	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.8	22.23	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.77	22.2	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.84	21.27	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.02	22.45	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.73	22.16	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.59	22.02	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.6	21.03	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.96	22.39	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.61	22.04	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.52	21.95	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.63	21.06	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.79	21.22	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.99	21.42	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.13	21.56	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.78	20.21	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.95	21.38	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.79	21.22	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.86	21.29	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.68	20.11	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.82	21.25	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.72	21.15	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.82	21.25	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.62	20.05	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	21.03	20.46	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	21.03	20.46	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	20.83	20.26	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	19.88	19.31	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	20.8	20.23	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	20.87	20.3	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.89	20.32	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.67	19.1	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.65	20.08	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	20.87	20.3	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	20.71	20.14	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.59	19.02	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	17.95	17.38	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	17.95	17.38	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	17.86	17.29	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	17.84	17.27	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	17.71	17.14	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	17.79	17.22	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	17.81	17.24	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	17.69	17.12	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	17.7	17.13	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	17.69	17.12	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	17.72	17.15	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	17.65	17.08	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.83	22.26	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.83	22.26	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.74	22.17	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.87	21.3	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.35	22.78	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.85	22.28	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.66	22.09	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.67	21.1	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.85	22.28	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.86	22.29	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.52	21.95	34.77	PASS



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Band12	3MHz	QPSK	23165	15RB#0	21.62	21.05	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.99	21.42	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.94	21.37	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.96	21.39	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.85	20.28	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.9	21.33	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.85	21.28	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.76	21.19	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.77	20.2	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.81	21.24	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.89	21.32	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.71	21.14	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.58	20.01	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	21.07	20.5	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	20.91	20.34	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	21.13	20.56	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.93	19.36	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	20.87	20.3	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	21.07	20.5	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	20.91	20.34	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.72	19.15	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	20.85	20.28	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	20.83	20.26	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	20.74	20.17	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	19.65	19.08	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	17.9	17.33	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	17.96	17.39	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	17.87	17.3	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	17.83	17.26	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	17.82	17.25	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	17.96	17.39	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	17.78	17.21	34.77	PASS



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Band12	3MHz	256QAM	23095	15RB#0	17.69	17.12	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#0	17.62	17.05	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#8	17.77	17.2	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#14	17.67	17.1	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	17.63	17.06	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.86	22.29	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.82	22.25	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.78	22.21	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.91	21.34	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.93	22.36	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.83	22.26	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.68	22.11	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.67	21.1	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.93	22.36	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.72	22.15	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.59	22.02	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.63	21.06	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.91	21.34	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.01	21.44	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.91	21.34	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.92	20.35	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.91	21.34	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.77	21.2	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.73	21.16	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.73	20.16	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.86	21.29	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.82	21.25	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.67	21.1	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.63	20.06	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	20.99	20.42	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	20.88	20.31	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.84	20.27	34.77	PASS



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Band12	5MHz	64QAM	23035	25RB#0	19.93	19.36	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.93	20.36	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	21.02	20.45	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#24	21.07	20.5	34.77	PASS
Band12	5MHz	64QAM	23095	25RB#0	19.72	19.15	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.87	20.3	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	20.84	20.27	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.74	20.17	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.71	19.14	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	17.9	17.33	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	17.92	17.35	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	17.75	17.18	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	17.84	17.27	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	17.84	17.27	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	17.82	17.25	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	17.77	17.2	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	17.74	17.17	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	17.69	17.12	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	17.81	17.24	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	17.7	17.13	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	17.58	17.01	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.91	22.34	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.87	22.3	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.83	22.26	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.92	21.35	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.78	22.21	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.79	22.22	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.68	22.11	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.72	21.15	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.03	22.46	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.72	22.15	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.54	21.97	34.77	PASS



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Band12	10MHz	QPSK	23130	50RB#0	21.69	21.12	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.06	21.49	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.95	21.38	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.8	21.23	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.87	20.3	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.94	21.37	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.93	21.36	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.86	21.29	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.69	20.12	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.95	21.38	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.81	21.24	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.84	21.27	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.68	20.11	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	21.14	20.57	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	21	20.43	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	20.74	20.17	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.86	19.29	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	21.07	20.5	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	20.95	20.38	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	20.84	20.27	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.74	19.17	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	20.95	20.38	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	20.86	20.29	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.81	20.24	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.74	19.17	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	17.94	17.37	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	17.93	17.36	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	17.88	17.31	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	17.84	17.27	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	17.89	17.32	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	17.89	17.32	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	17.82	17.25	34.77	PASS



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Band12	10MHz	256QAM	23095	50RB#0	17.79	17.22	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	17.78	17.21	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	17.92	17.35	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	17.72	17.15	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	17.67	17.1	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	5.18	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.10	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.08	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.02	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.96	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.78	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.48	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.40	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.28	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.66	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.58	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.50	13	PASS

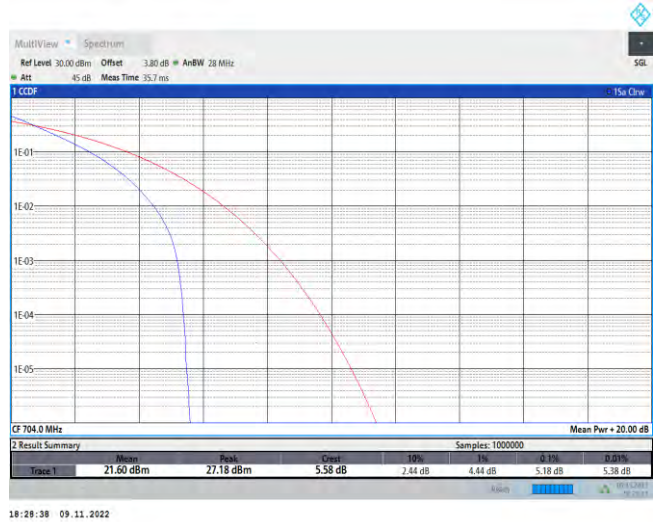


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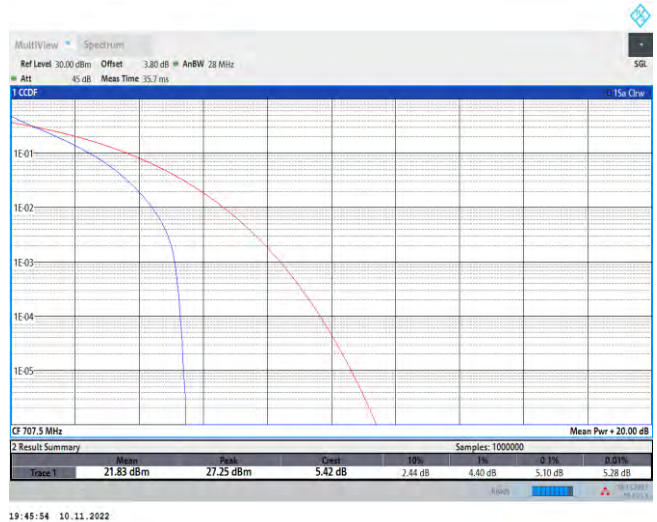
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Test Graphs

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



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



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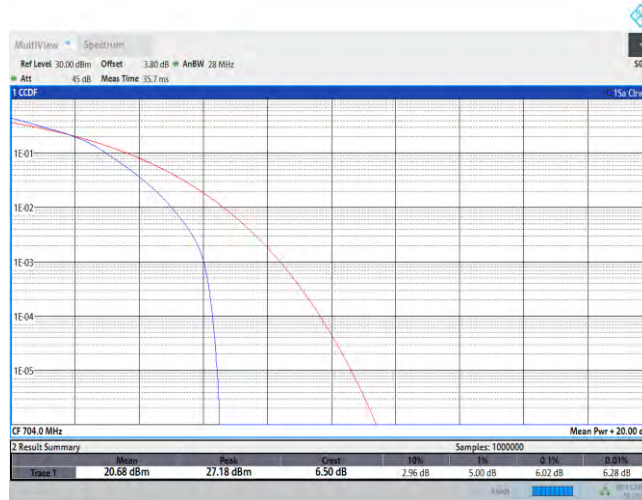
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Band12-10MHz-QPSK-23130-50RB#0



19:46:11 10.11.2022

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



18:28:54 09.11.2022

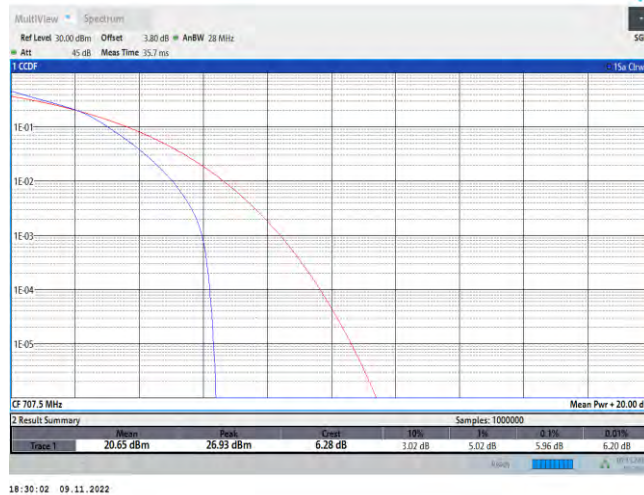


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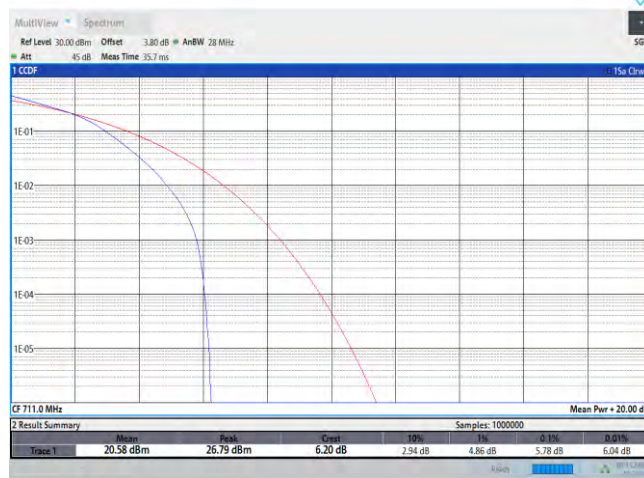
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Band12-10MHz-16QAM-23095-50RB#0



18:30:02 09.11.2022

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



18:31:10 09.11.2022

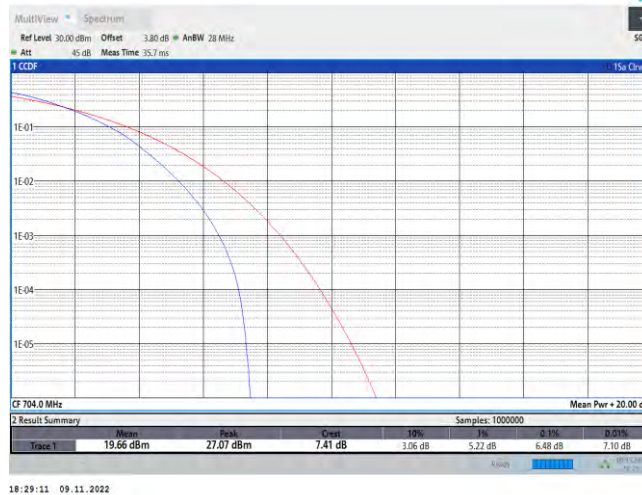


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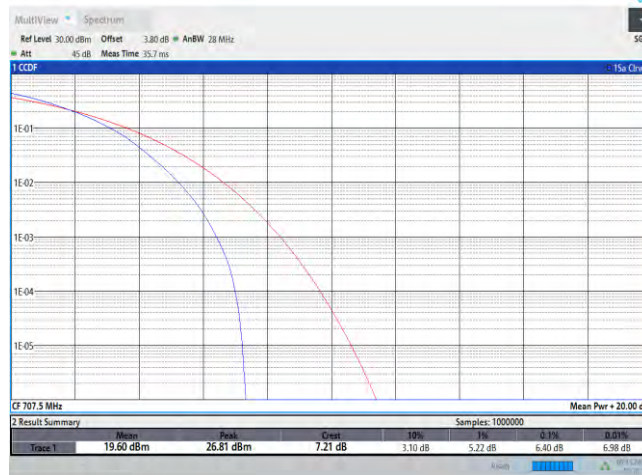
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Band12-10MHz-64QAM-23060-50RB#0



18:29:11 09.11.2022

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



18:30:18 09.11.2022



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



18:31:26 09.11.2022

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



18:29:27 09.11.2022

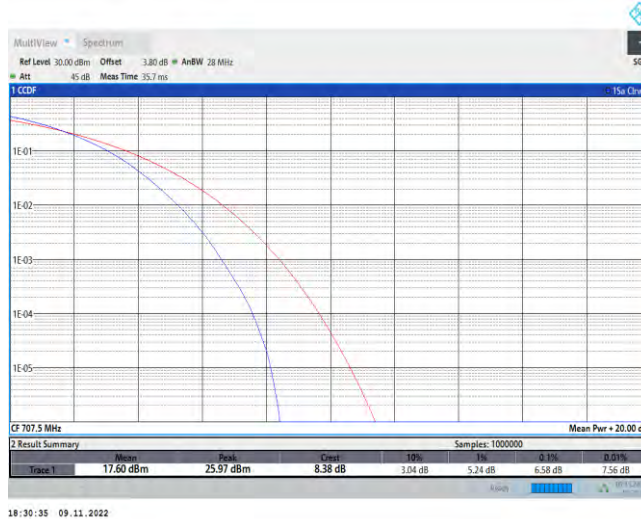


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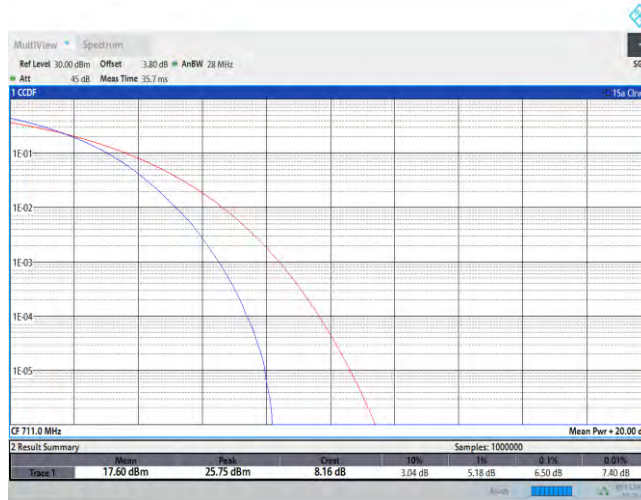
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Band12-10MHz-256QAM-23095-50RB#0



18:30:35 09.11.2022

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



18:31:42 09.11.2022



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Report No.: SEWM2206000070RG01

Rev.: 01

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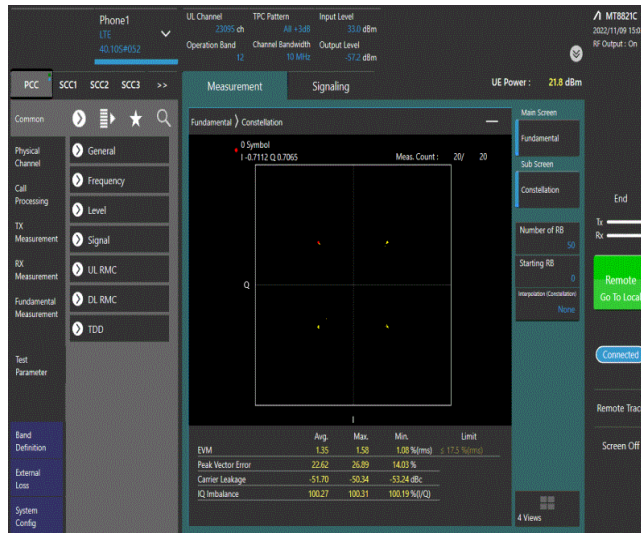
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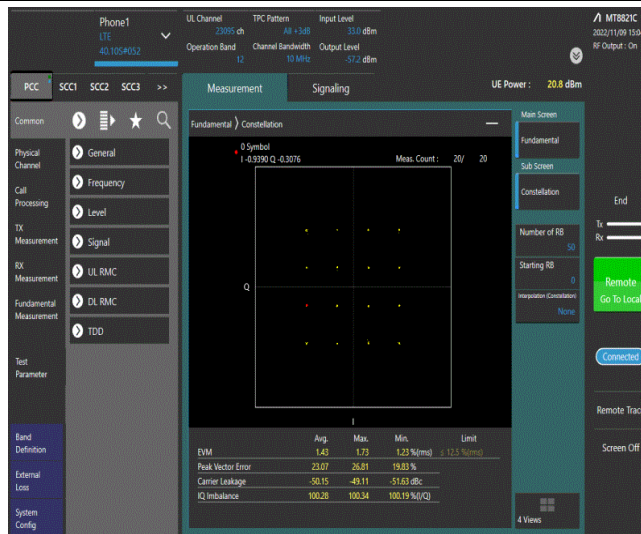
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Band12-10MHz-16QAM-23095-50RB#0



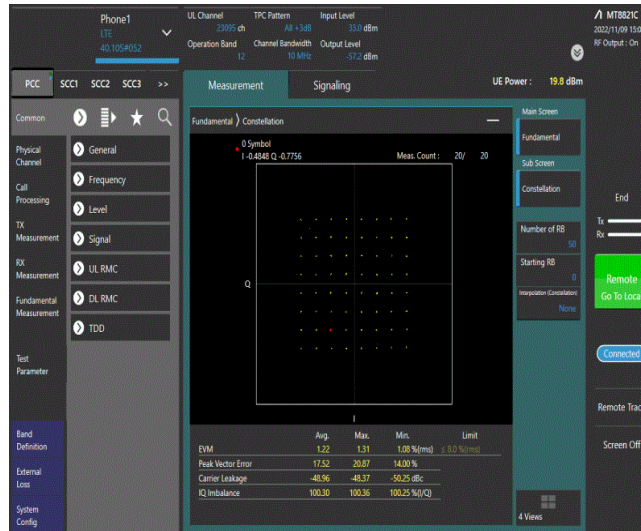
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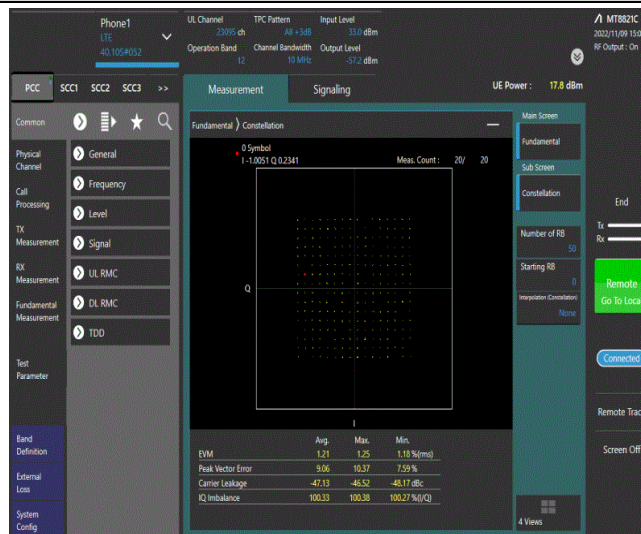
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Band12-10MHz-64QAM-23095-50RB#0



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	1.103	1.37	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.105	1.39	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.103	1.39	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.107	1.42	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.105	1.37	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.105	1.39	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.106	1.40	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.108	1.39	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.104	1.37	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	1.104	1.39	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	1.104	1.39	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	1.109	1.40	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.694	3.06	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.7	3.07	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.698	3.04	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.697	3.04	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.698	3.04	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.701	3.07	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.698	3.04	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.692	3.05	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.701	3.04	PASS
Band12	3MHz	256QAM	23025	15RB#0	2.697	3.08	PASS
Band12	3MHz	256QAM	23095	15RB#0	2.699	3.06	PASS
Band12	3MHz	256QAM	23165	15RB#0	2.7	3.02	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.475	5.04	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.47	5.06	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.485	5.00	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.482	4.94	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.489	4.99	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.475	5.03	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.478	5.04	PASS



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Report No.: SEWM2206000070RG01

Rev.: 01

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Band12	5MHz	64QAM	23095	25RB#0	4.475	4.99	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.47	5.02	PASS
Band12	5MHz	256QAM	23035	25RB#0	4.473	5.02	PASS
Band12	5MHz	256QAM	23095	25RB#0	4.48	5.03	PASS
Band12	5MHz	256QAM	23155	25RB#0	4.472	5.00	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.95	9.80	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.936	9.86	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.911	9.74	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.937	9.84	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.939	9.74	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.915	9.80	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.941	9.76	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.934	9.88	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.913	9.88	PASS
Band12	10MHz	256QAM	23060	50RB#0	8.949	9.78	PASS
Band12	10MHz	256QAM	23095	50RB#0	8.943	9.84	PASS
Band12	10MHz	256QAM	23130	50RB#0	8.912	9.70	PASS



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Test Graphs

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



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



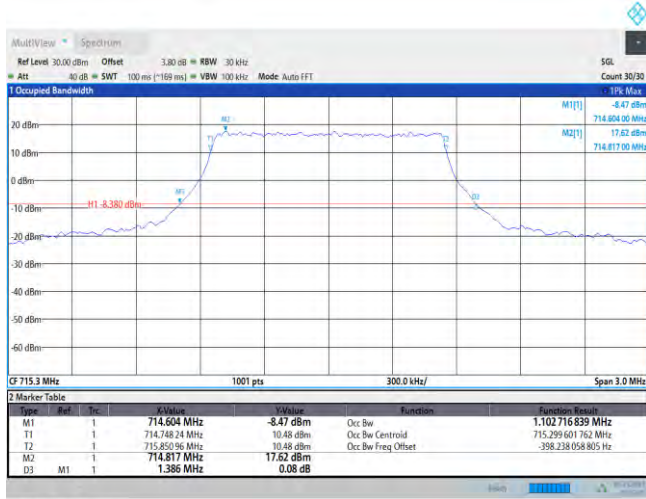
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Band12-1.4MHz-QPSK-23173-6RB#0



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

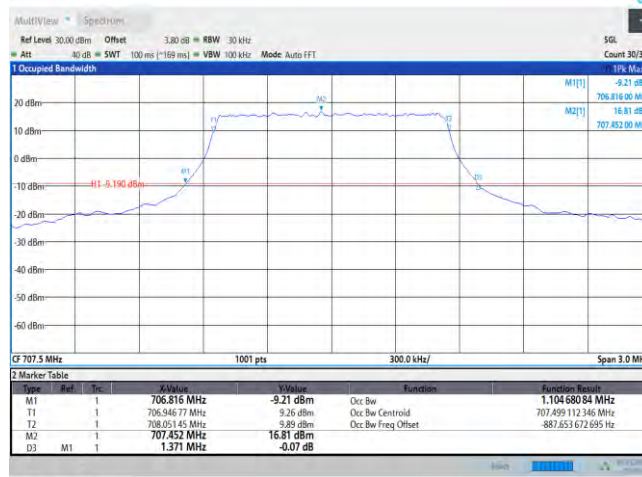


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18:04:07 09.11.2022

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



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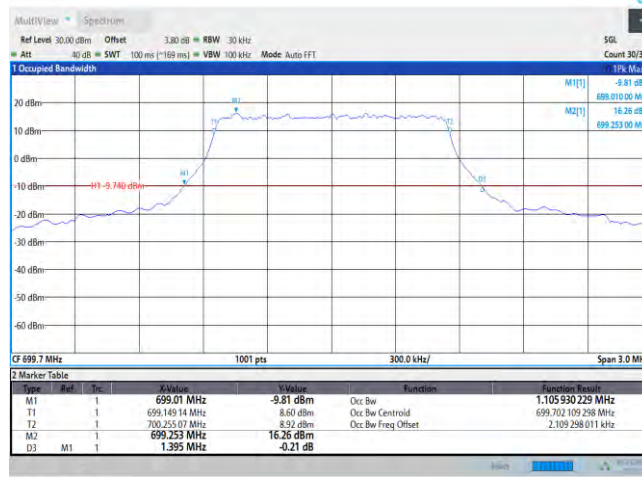
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Band12-1.4MHz-256QAM-23017-6RB#0



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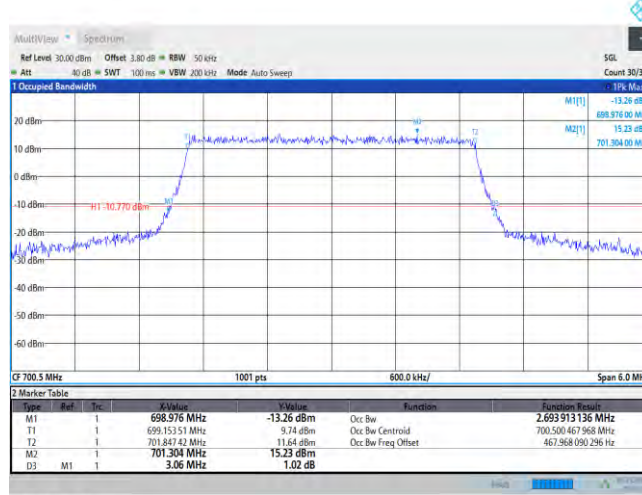


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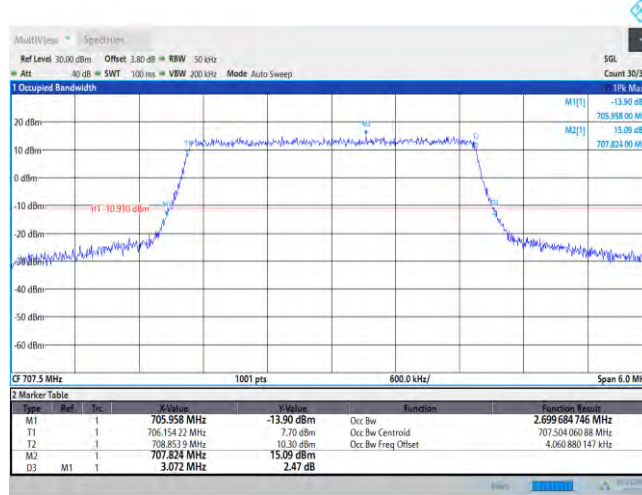
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Band12-3MHz-QPSK-23025-15RB#0



18:06:25 09.11.2022

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



18:07:34 09.11.2022

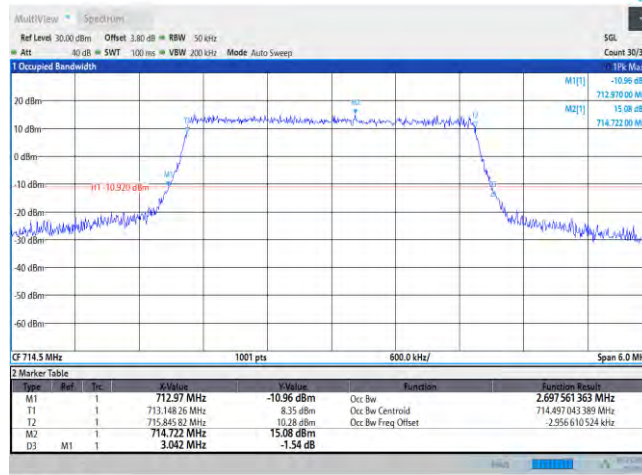


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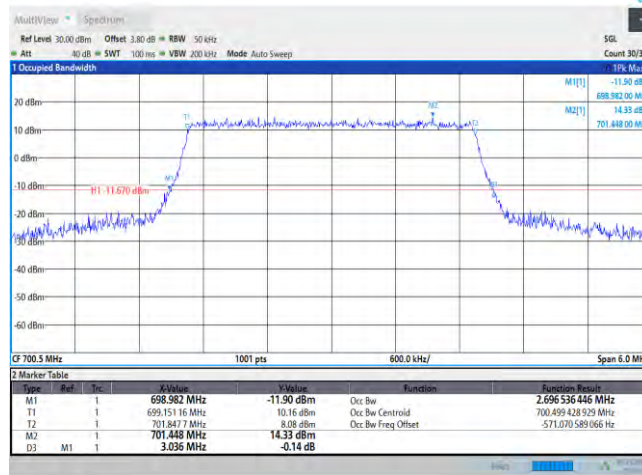
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Band12-3MHz-QPSK-23165-15RB#0



18:08:43 09.11.2022

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



18:06:41 09.11.2022



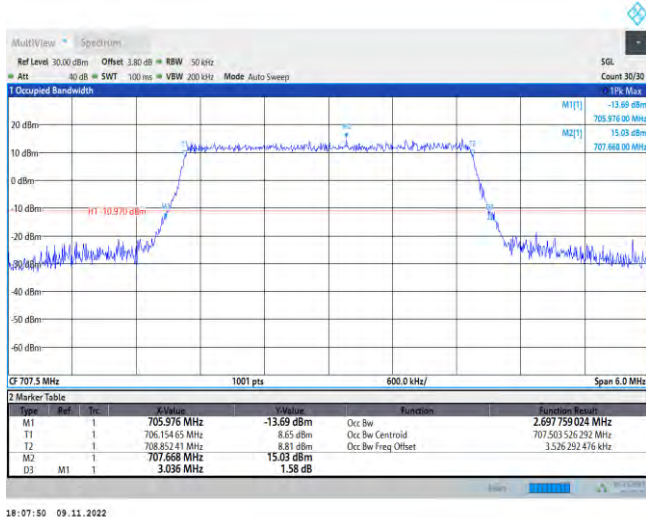
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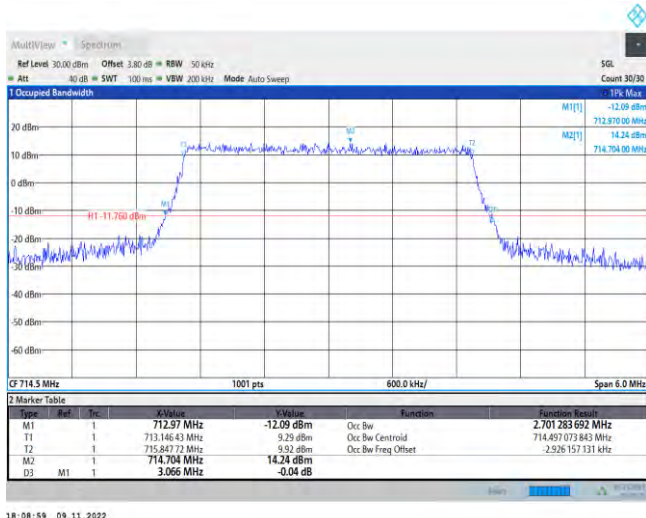
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Band12-3MHz-16QAM-23095-15RB#0



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Band12-3MHz-16QAM-23165-15RB#0

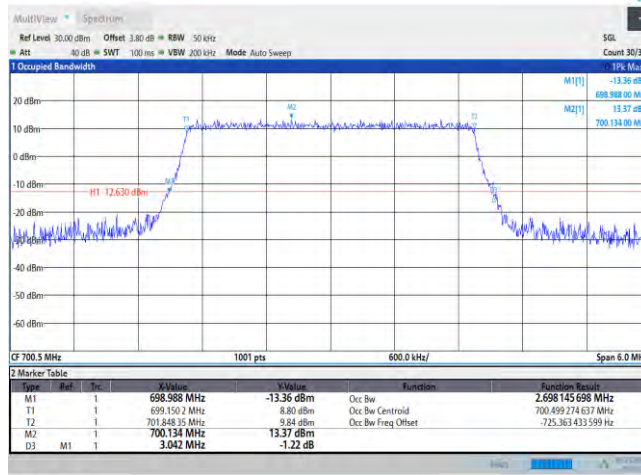


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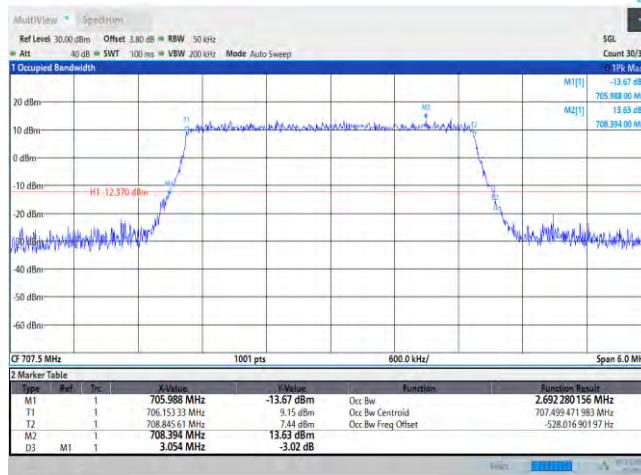


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Band12-3MHz-64QAM-23025-15RB#0

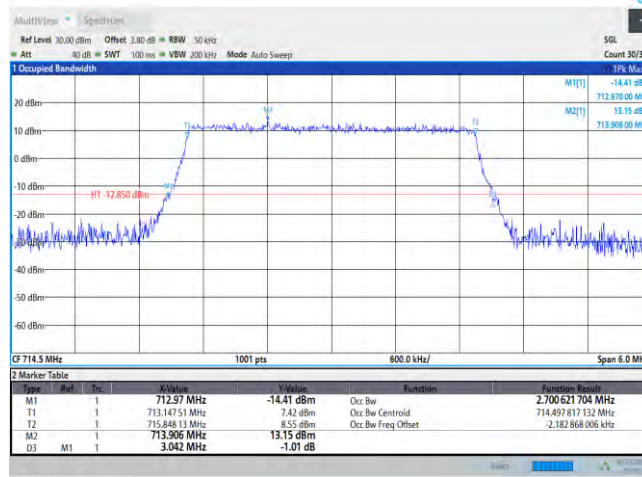


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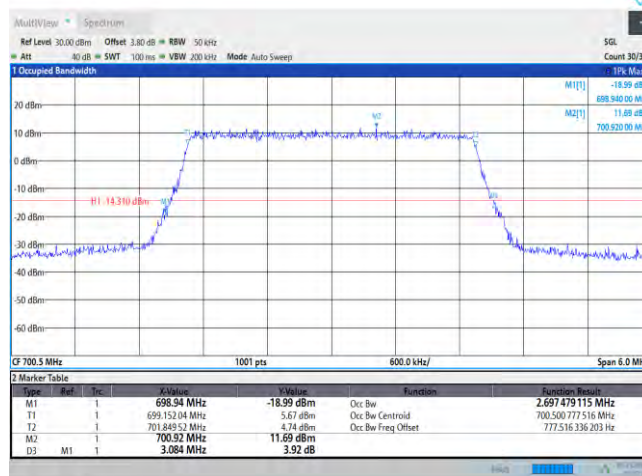
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Band12-3MHz-64QAM-23165-15RB#0



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Band12-3MHz-256QAM-23025-15RB#0



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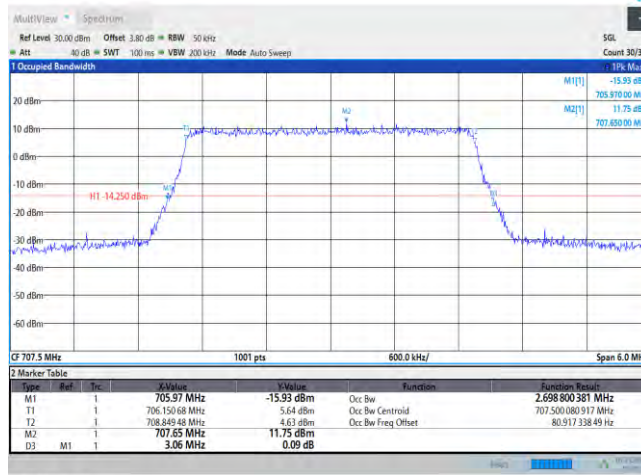
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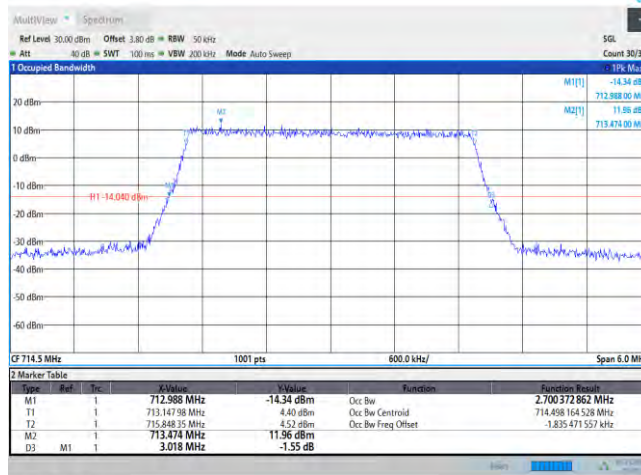
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Band12-3MHz-256QAM-23095-15RB#0



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Band12-3MHz-256QAM-23165-15RB#0



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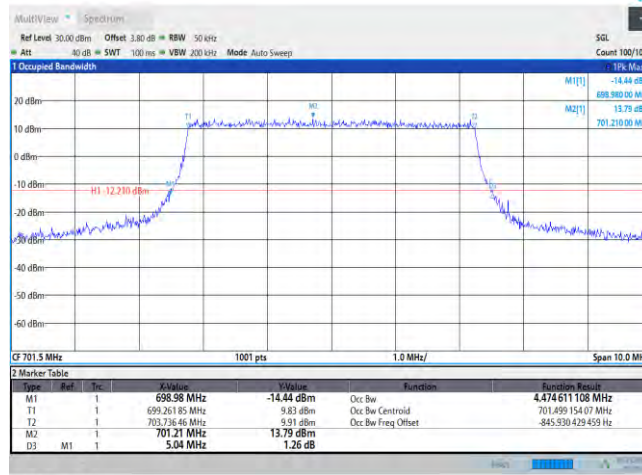


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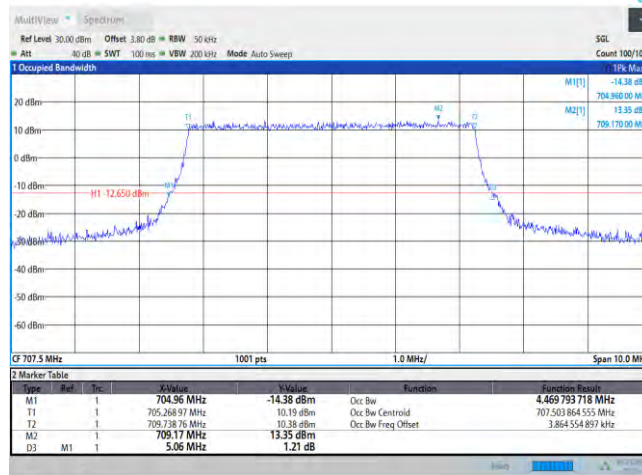
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Band12-5MHz-QPSK-23035-25RB#0



18:10:10 09.11.2022

Band12-5MHz-QPSK-23095-25RB#0



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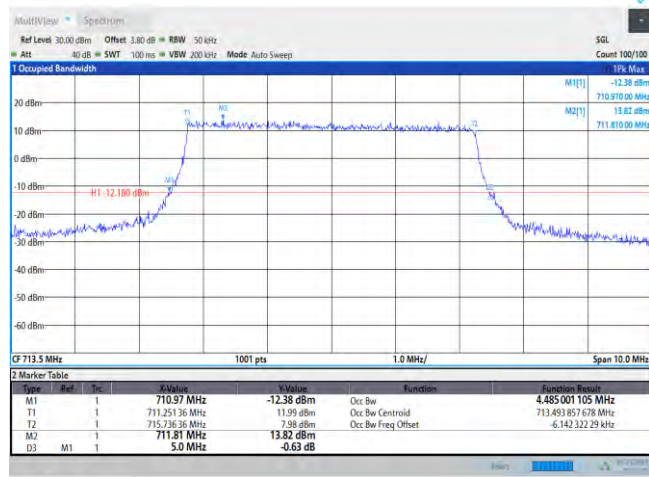


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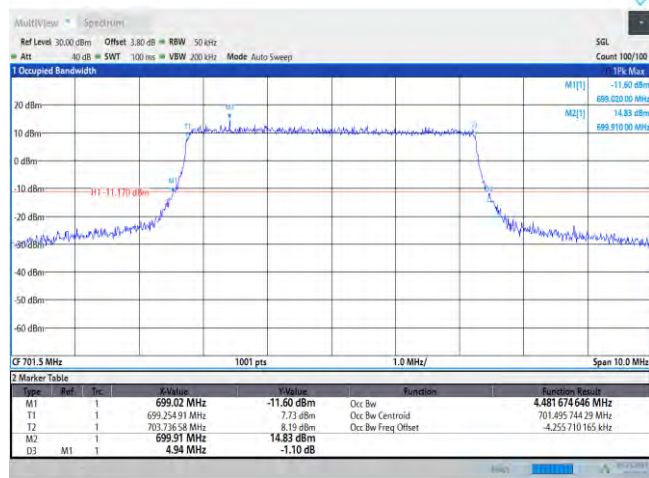
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Band12-5MHz-QPSK-23155-25RB#0



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Band12-5MHz-16QAM-23035-25RB#0



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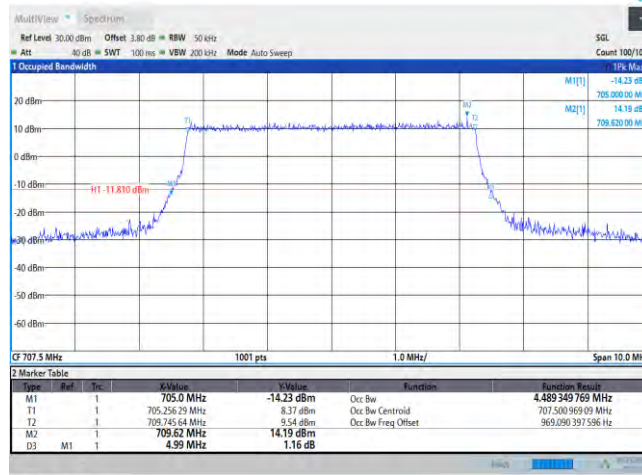
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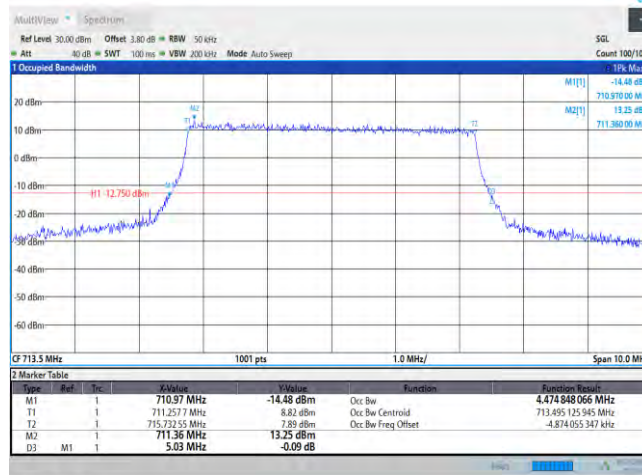
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Band12-5MHz-16QAM-23095-25RB#0



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Band12-5MHz-16QAM-23155-25RB#0



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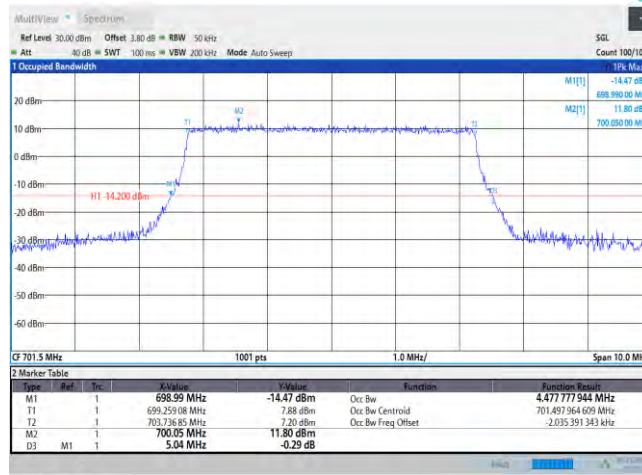
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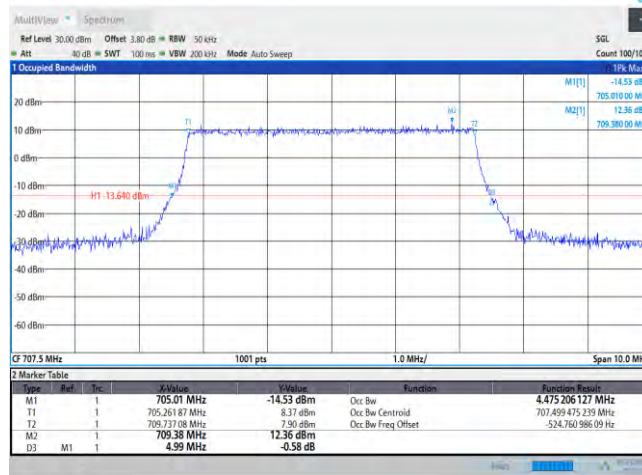
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Band12-5MHz-64QAM-23035-25RB#0



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18:12:33 09.11.2022



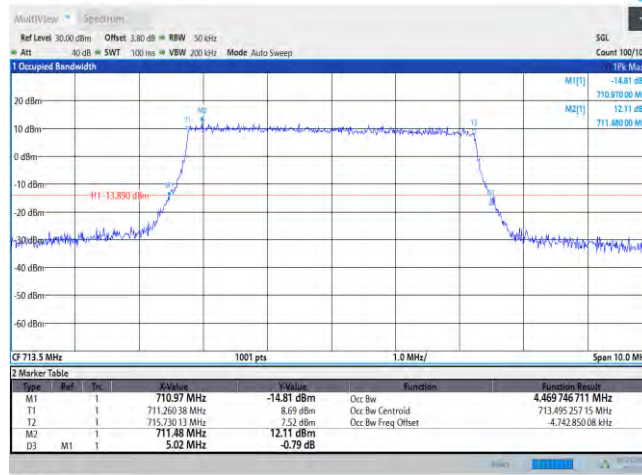
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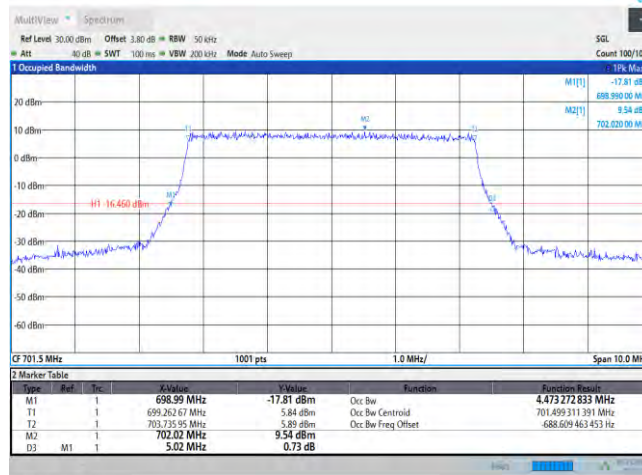
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Band12-5MHz-64QAM-23155-25RB#0



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Band12-5MHz-256QAM-23035-25RB#0



18:11:19 09.11.2022



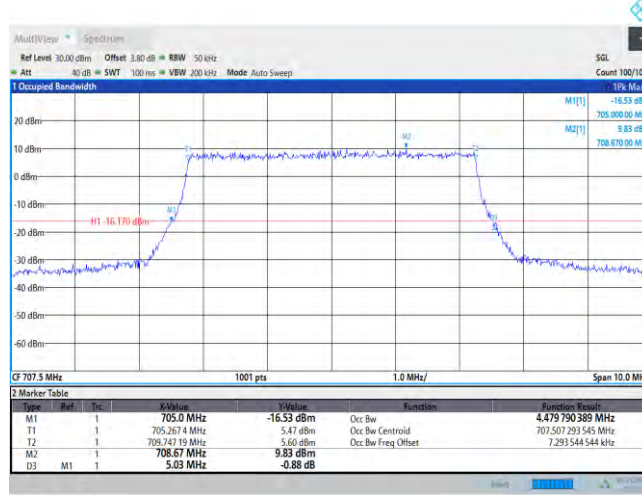
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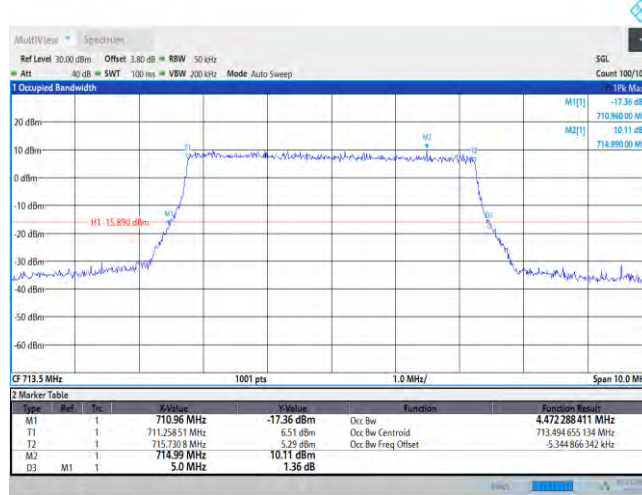
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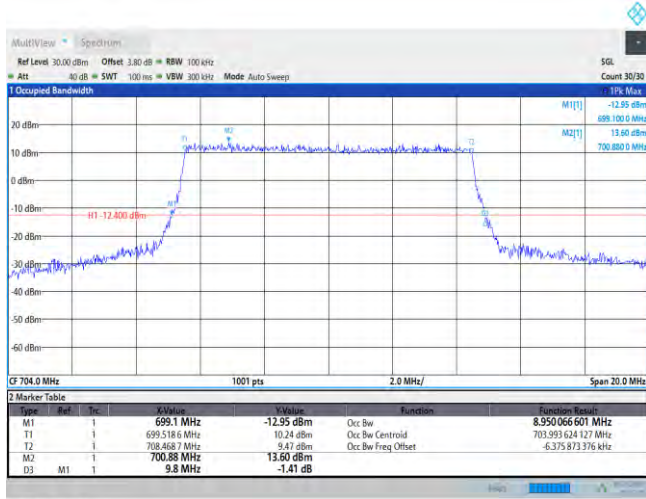


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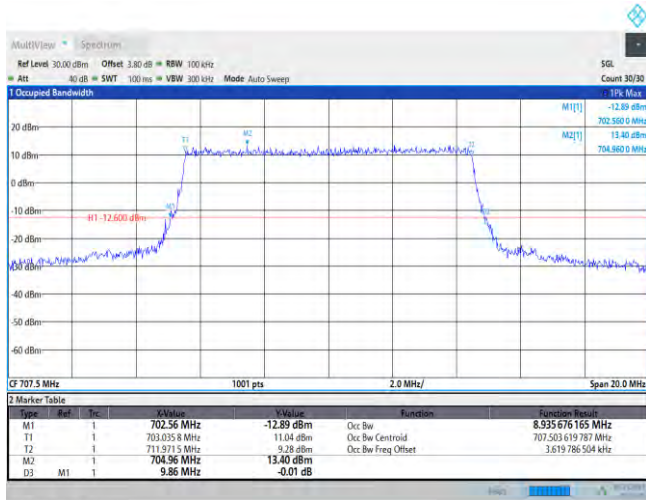
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Band12-10MHz-QPSK-23060-50RB#0



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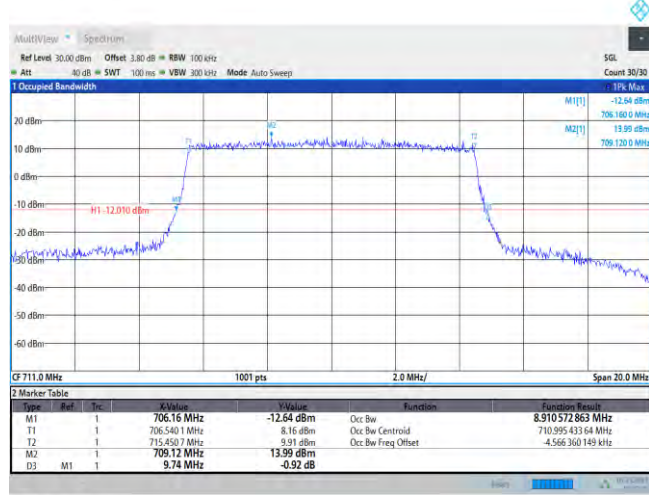


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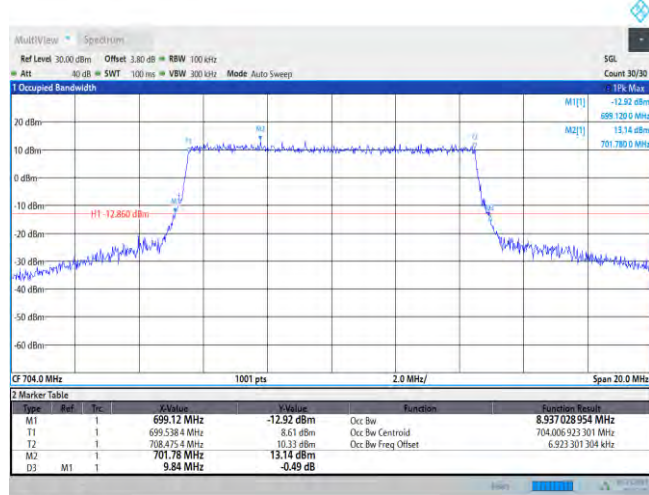


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Band12-10MHz-QPSK-23130-50RB#0



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

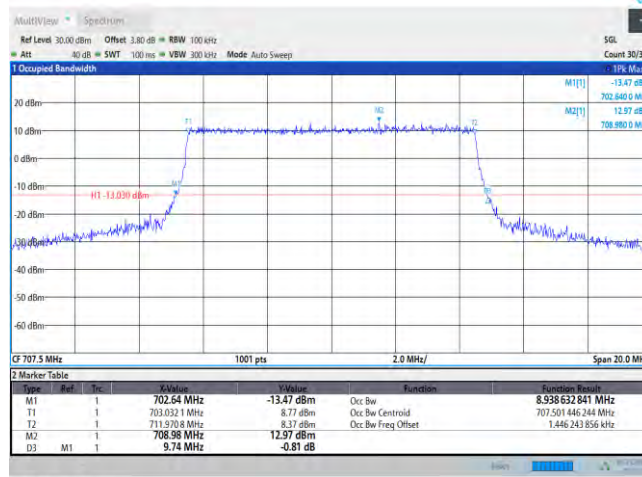


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Band12-10MHz-16QAM-23095-50RB#0



18:16:26 09.11.2022

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



18:17:33 09.11.2022



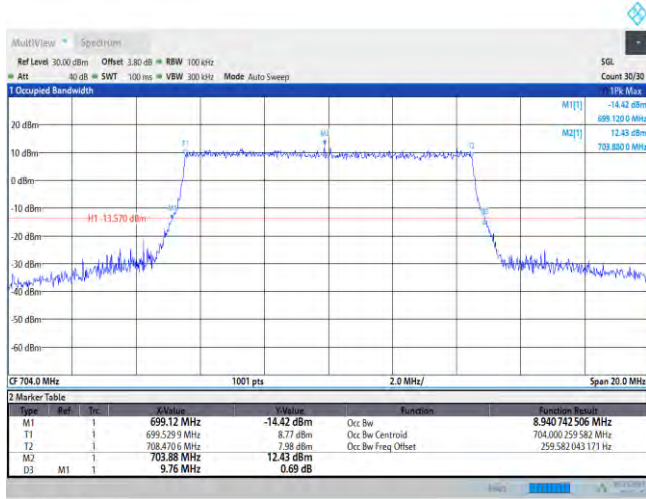
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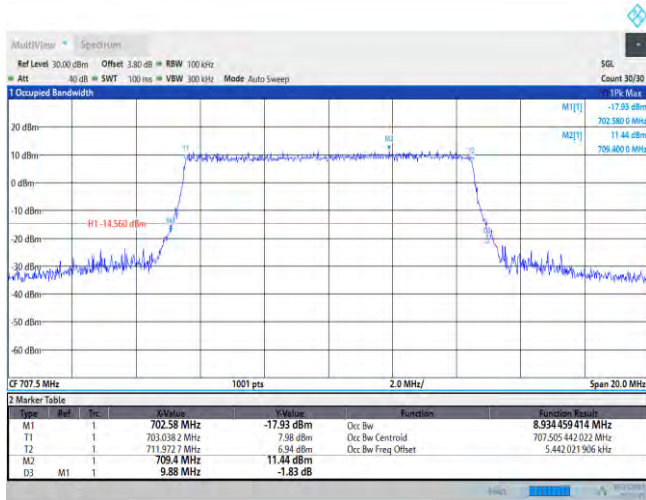
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Band12-10MHz-64QAM-23060-50RB#0



18:15:35 09.11.2022

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



18:16:42 09.11.2022



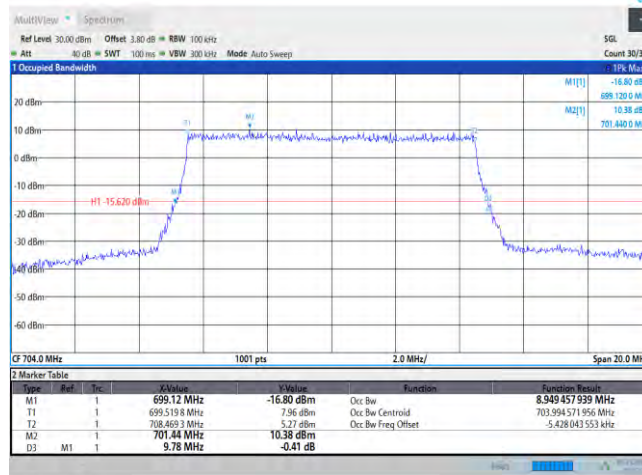
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Band12-10MHz-64QAM-23130-50RB#0



18:17:49 09.11.2022

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



18:15:51 09.11.2022



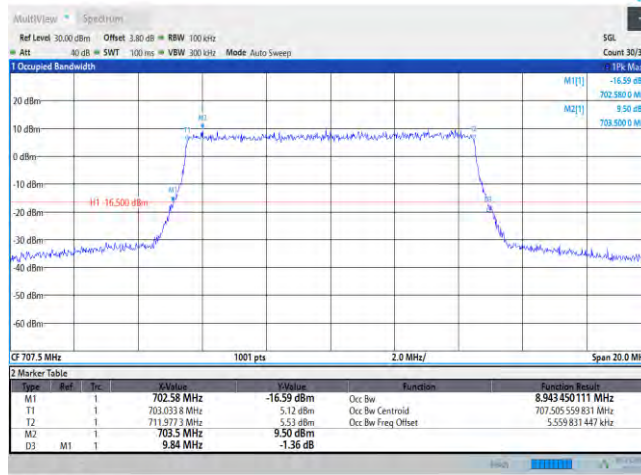
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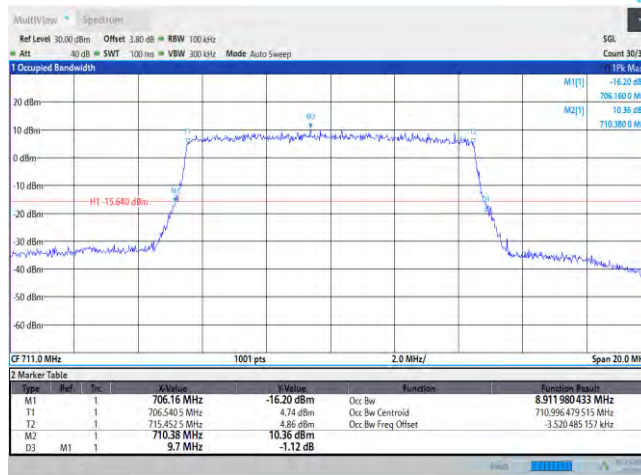
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Band12-10MHz-256QAM-23095-50RB#0



18:16:58 09.11.2022

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



18:18:05 09.11.2022



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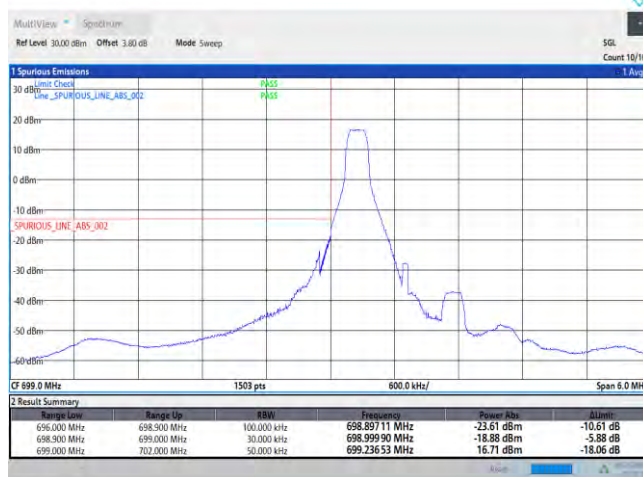
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Band Edge

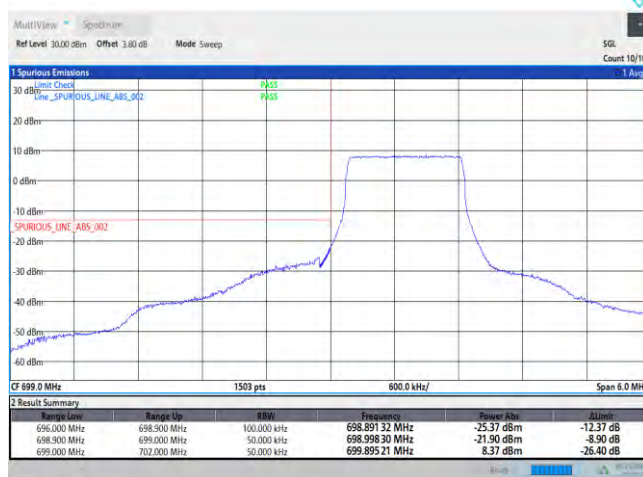
Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



18:18:59 09.11.2022

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

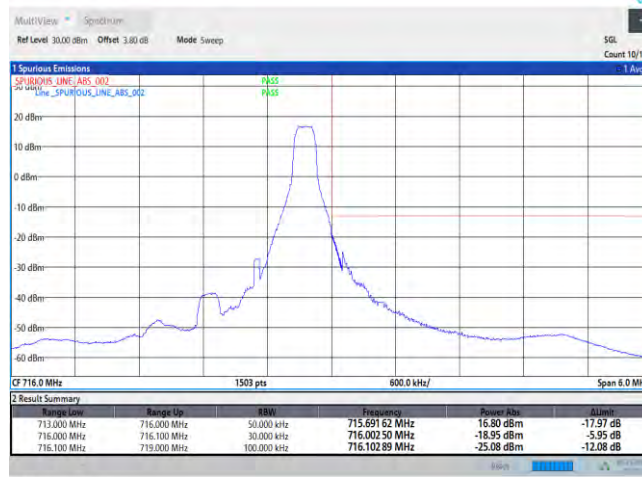


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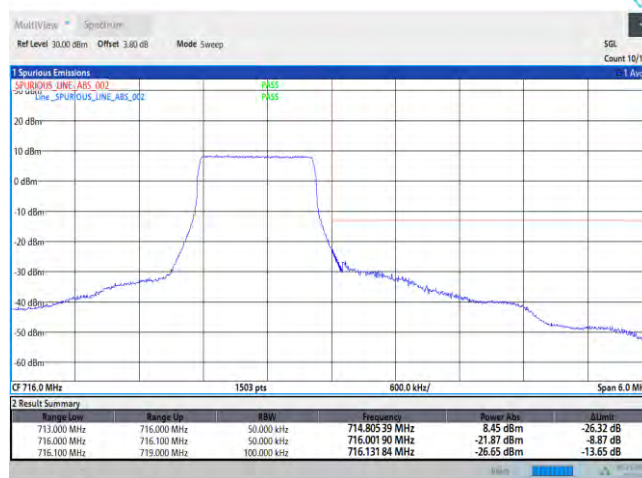
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Band12-1.4MHz-QPSK-23173-1RB#5



18:20:28 09.11.2022

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



18:21:01 09.11.2022

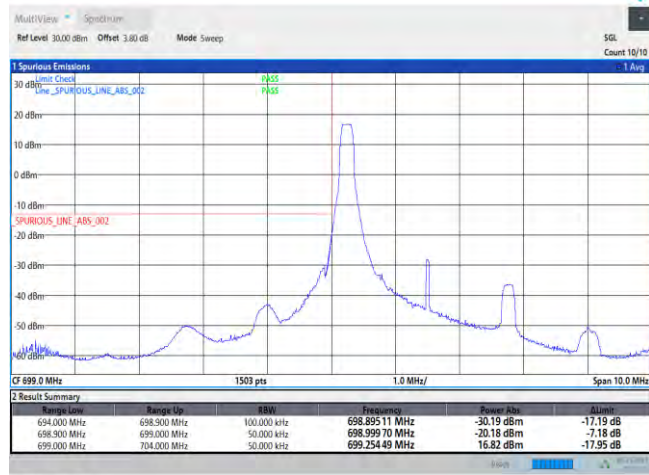


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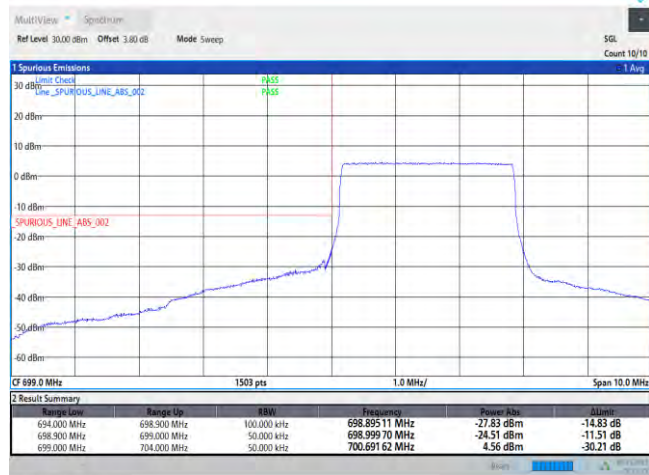
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Band12-3MHz-QPSK-23025-1RB#0



18:21:52 09.11.2022

Band12-3MHz-QPSK-23025-15RB#0



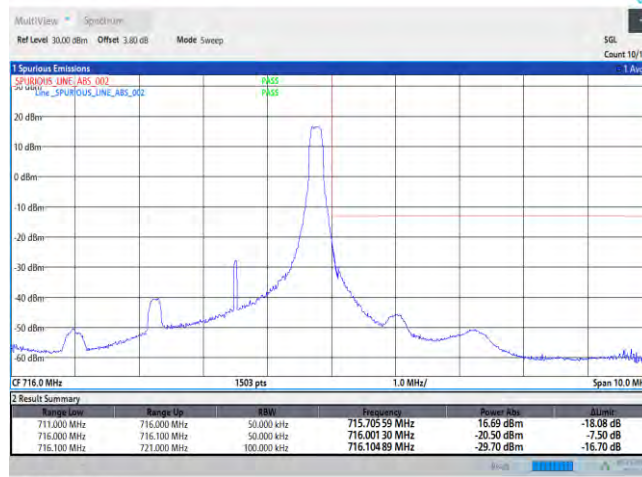
18:22:24 09.11.2022



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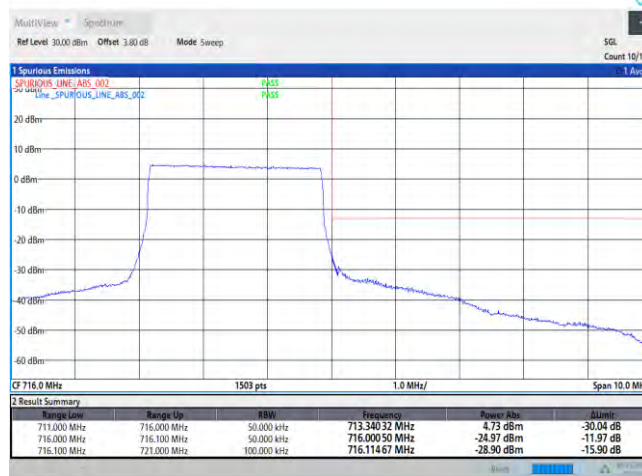
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Band12-3MHz-QPSK-23165-1RB#14



18:23:16 09.11.2022

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



18:23:49 09.11.2022

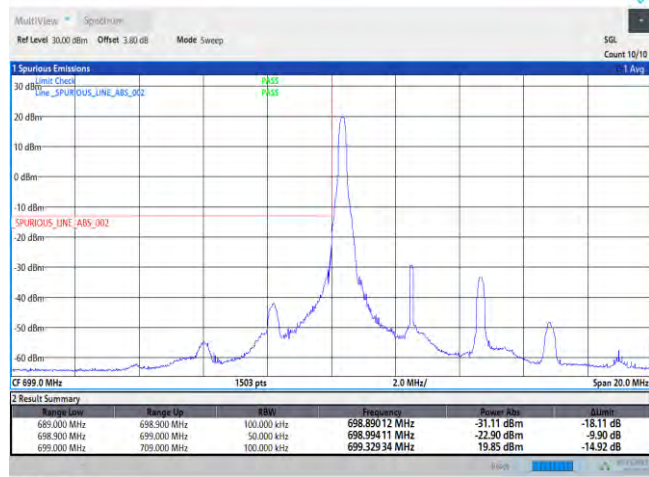


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Band12-5MHz-QPSK-23035-1RB#0



18:24:31 09.11.2022

Band12-5MHz-QPSK-23035-25RB#0



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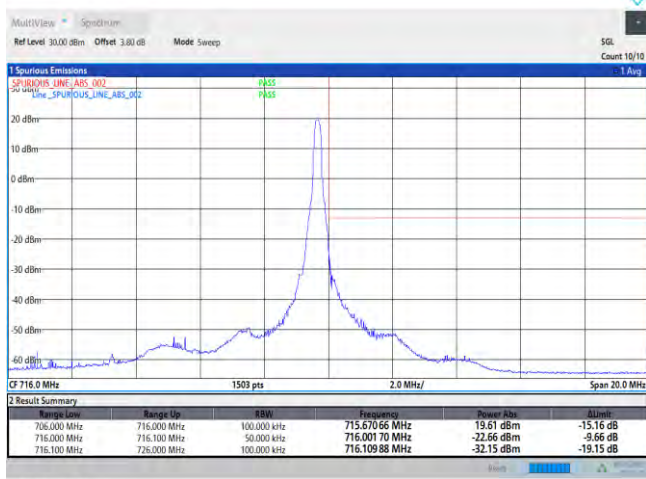


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Band12-5MHz-QPSK-23155-1RB#24



18:25:36 09.11.2022

Band12-5MHz-QPSK-23155-25RB#0

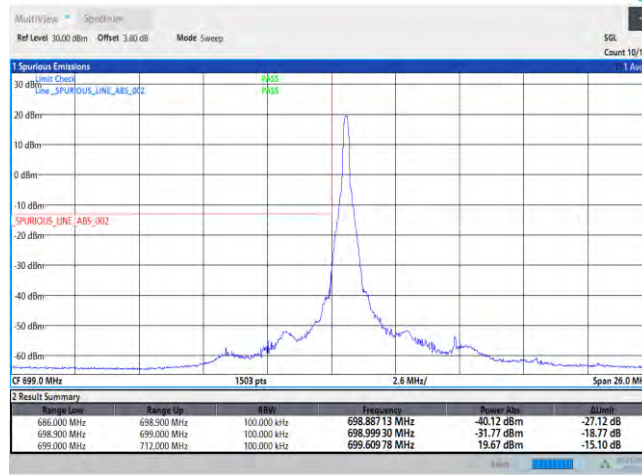


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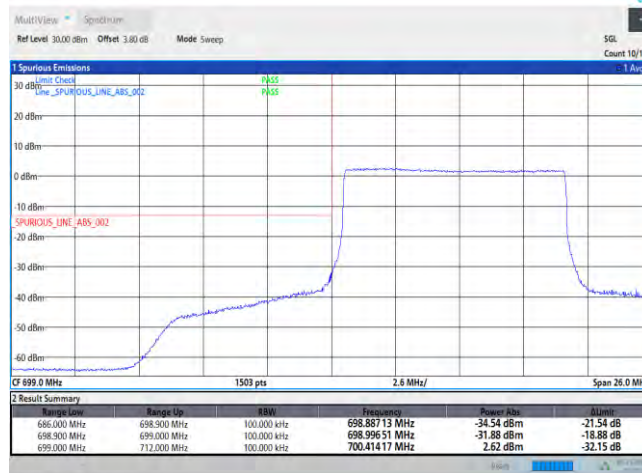
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Band12-10MHz-QPSK-23060-1RB#0



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



18:27:02 09.11.2022



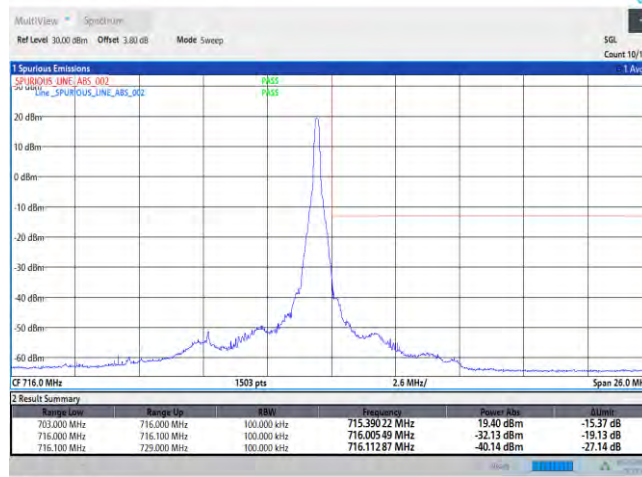
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Band12-10MHz-QPSK-23130-1RB#49



18:27:43 09.11.2022

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



18:28:06 09.11.2022



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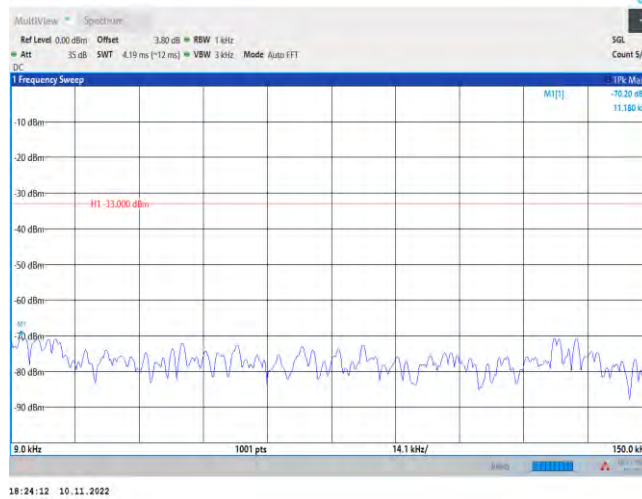
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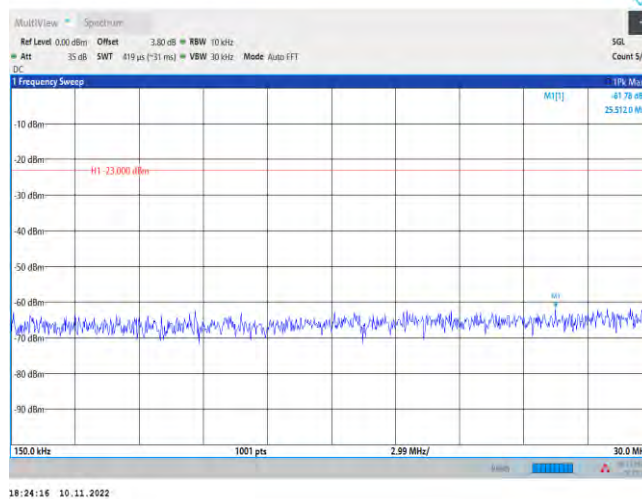
Conducted Spurious Emission

Test Graphs

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



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



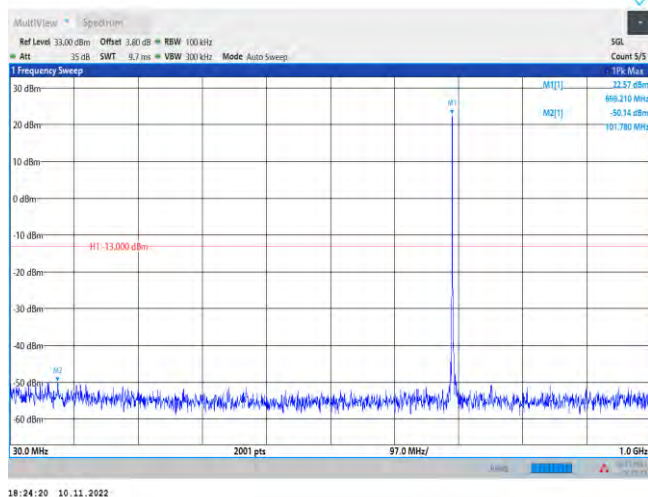
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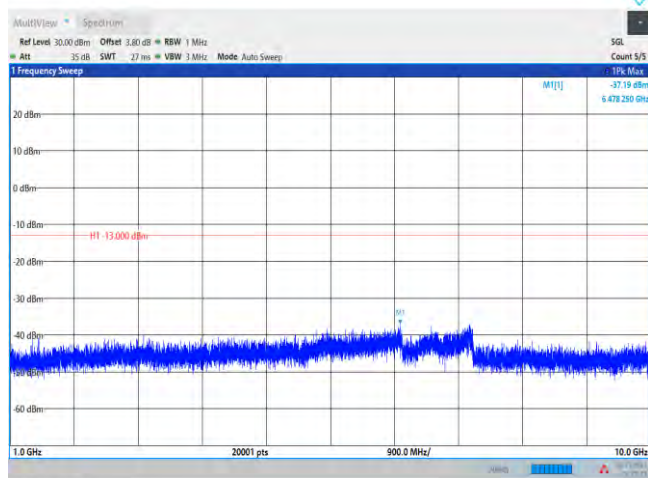
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



18:24:20 10.11.2022

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

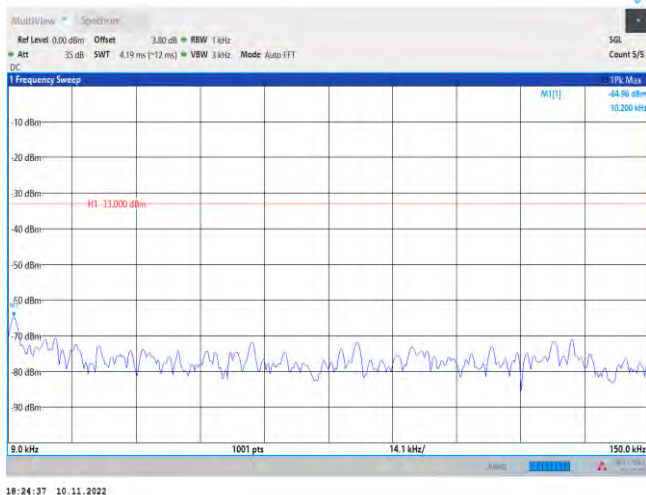


18:24:24 10.11.2022



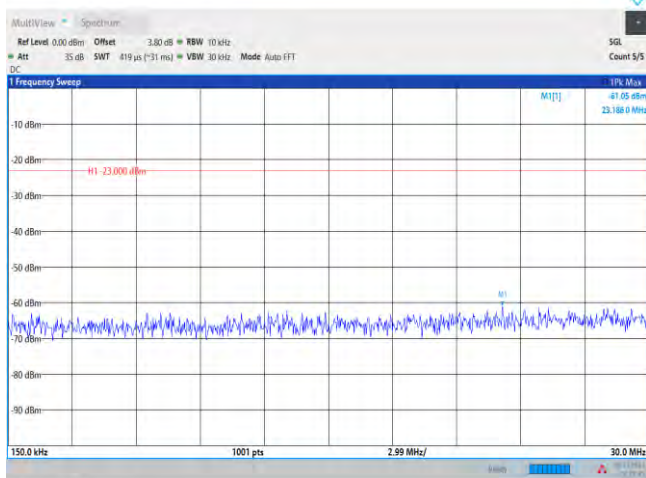
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



18:24:37 10.11.2022

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

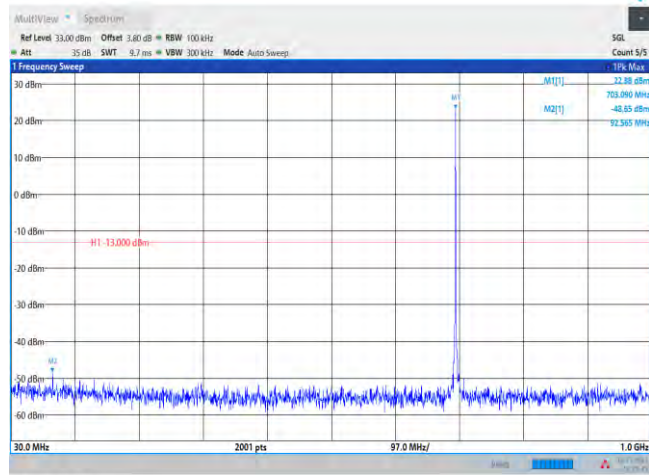


18:24:41 10.11.2022



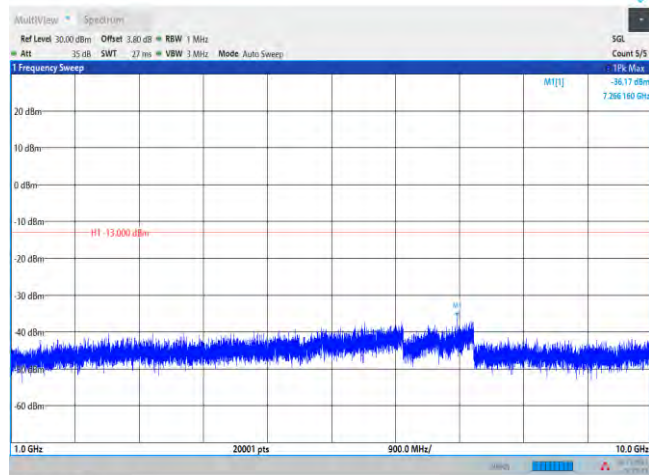
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



18:24:45 10.11.2022

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



18:24:49 10.11.2022

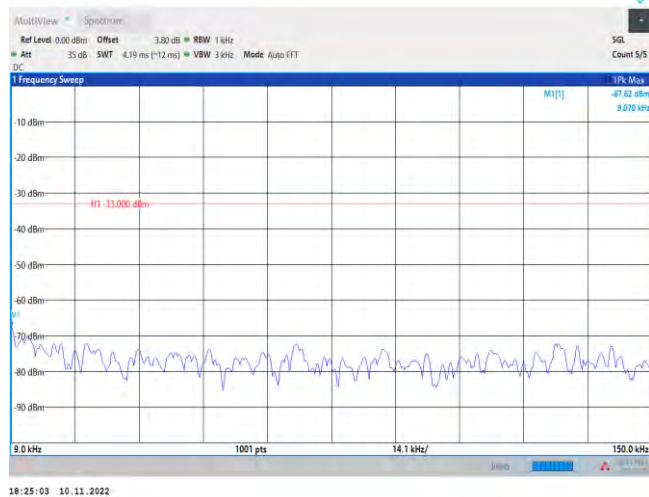


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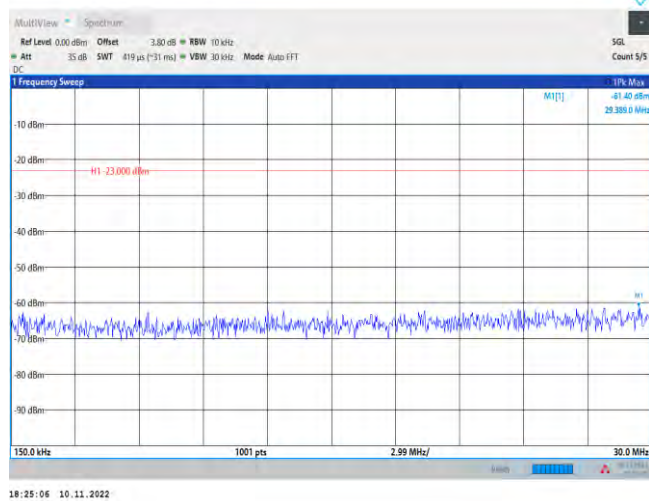
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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

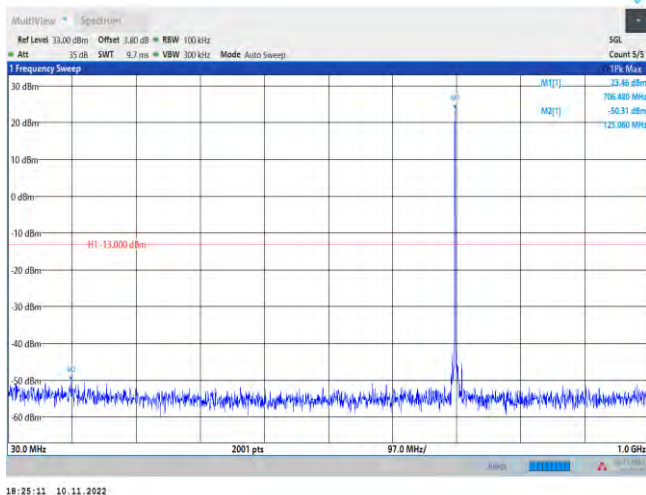


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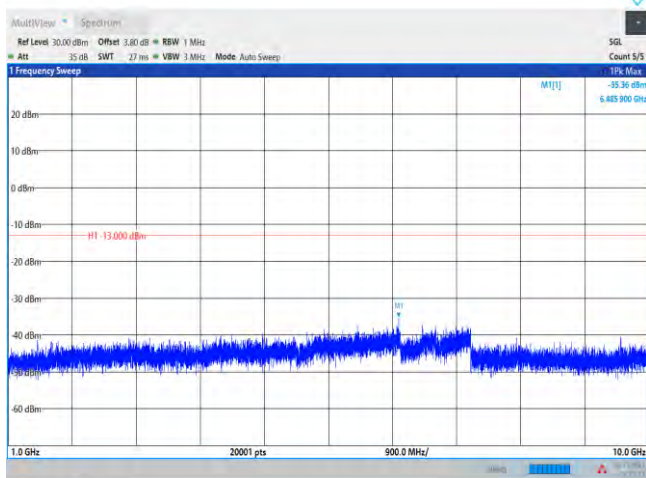
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



18:25:11 10.11.2022

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



18:25:14 10.11.2022



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Field Strength of Spurious Radiation

Test Band = LTE Band 12_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.2222	58.58	-48.72	25.41	-59.99	-13.00	46.99	142	296	Horizontal
2	3515.5556	47.98	-46.03	29.44	-63.88	-13.00	50.88	265	351	Horizontal
3	4218.2222	50.61	-45.11	30.95	-58.81	-13.00	45.81	285	342	Horizontal
4	2098.77	43.22	-47.88	27.10	-72.82	-13.00	59.82	241	110	Horizontal
5	2798.36	42.59	-46.69	28.92	-70.44	-13.00	57.44	142	94	Horizontal
6	4897.13	39.49	-45.14	32.35	-68.55	-13.00	55.55	263	156	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	1406.2222	58.03	-48.72	25.41	-60.54	-13.00	47.54	362	139	Vertical
2	2109.3333	49.60	-47.87	27.12	-66.41	-13.00	53.41	295	123	Vertical
3	2812.4444	51.41	-46.69	28.96	-61.58	-13.00	48.58	241	62	Vertical
4	3515.5556	49.95	-46.03	29.44	-61.91	-13.00	48.91	256	357	Vertical
5	4218.6667	54.29	-45.11	30.95	-55.13	-13.00	42.13	222	92	Vertical
6	4897.13	39.85	-45.14	32.35	-68.19	-13.00	55.19	114	170	Vertical



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Test Band = LTE Band 12_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	57.52	-48.72	25.41	-61.05	-13.00	48.05	142	313	Horizontal
2	2109.27	46.12	-47.87	27.12	-69.89	-13.00	56.89	285	15	Horizontal
3	2812.36	47.44	-46.69	28.96	-65.55	-13.00	52.55	263	139	Horizontal
4	3515.45	48.67	-46.03	29.44	-63.19	-13.00	50.19	222	352	Horizontal
5	4218.54	50.68	-45.11	30.95	-58.74	-13.00	45.74	142	344	Horizontal
6	4921.63	39.84	-45.12	32.41	-68.13	-13.00	55.13	263	313	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	1406.18	58.15	-48.72	25.41	-60.42	-13.00	47.42	102	282	Vertical
2	2109.27	48.76	-47.87	27.12	-67.25	-13.00	54.25	265	95	Vertical
3	2812.36	50.63	-46.69	28.96	-62.36	-13.00	49.36	296	50	Vertical
4	3515.45	49.93	-46.03	29.44	-61.93	-13.00	48.93	100	0	Vertical
5	4218.54	54.23	-45.11	30.95	-55.19	-13.00	42.19	241	64	Vertical
6	4921.63	41.00	-45.12	32.41	-66.97	-13.00	53.97	142	252	Vertical



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Test Band = LTE Band 12_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	60.48	-48.70	25.41	-58.06	-13.00	45.06	196	30	Horizontal
2	2119.77	47.76	-47.85	27.14	-68.21	-13.00	55.21	265	30	Horizontal
3	2826.36	48.34	-46.71	29.01	-64.62	-13.00	51.62	241	154	Horizontal
4	3532.95	49.09	-46.01	29.48	-62.70	-13.00	49.70	142	357	Horizontal
5	4239.54	54.72	-45.11	30.98	-54.67	-13.00	41.67	285	342	Horizontal
6	4946.13	39.40	-45.09	32.47	-68.47	-13.00	55.47	263	107	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	1413.18	59.61	-48.70	25.41	-58.93	-13.00	45.93	285	112	Vertical
2	2119.77	49.91	-47.85	27.14	-66.06	-13.00	53.06	265	98	Vertical
3	2826.36	52.63	-46.71	29.01	-60.33	-13.00	47.33	241	50	Vertical
4	3532.95	51.59	-46.01	29.48	-60.20	-13.00	47.20	142	0	Vertical
5	4239.54	58.08	-45.11	30.98	-51.31	-13.00	38.31	263	66	Vertical
6	4946.13	42.23	-45.09	32.47	-65.64	-13.00	52.64	211	284	Vertical



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Test Band = CA Band 12A-66A_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	38.93	-25.81	25.40	-56.74	-13.00	43.74	263	318	Horizontal
2	2098.77	36.64	-24.91	27.10	-56.43	-13.00	43.43	265	360	Horizontal
3	2798.36	38.17	-23.69	28.91	-51.87	-13.00	38.87	284	52	Horizontal
4	3404.18	42.51	-45.92	29.44	-69.23	-13.00	56.23	142	1	Horizontal
5	5106.27	40.97	-44.28	32.60	-65.97	-13.00	52.97	201	179	Horizontal
6	6808.36	39.72	-42.55	35.82	-62.27	-13.00	49.27	142	312	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	1399.18	36.70	-25.81	25.40	-58.97	-13.00	45.97	296	96	Vertical
2	2098.77	36.72	-24.91	27.10	-56.35	-13.00	43.35	265	75	Vertical
3	2798.36	37.71	-23.69	28.91	-52.33	-13.00	39.33	284	296	Vertical
4	3404.18	42.85	-45.92	29.44	-68.89	-13.00	55.89	142	228	Vertical
5	5106.27	40.26	-44.28	32.60	-66.68	-13.00	53.68	263	0	Vertical
6	6808.36	39.19	-42.55	35.82	-62.80	-13.00	49.80	221	228	Vertical



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Test Band = CA Band 12A-66A_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	39.09	-25.79	25.41	-56.55	-13.00	43.55	241	326	Horizontal
2	2109.27	36.76	-24.91	27.12	-56.29	-13.00	43.29	188	41	Horizontal
3	2812.36	42.10	-23.65	28.96	-47.85	-13.00	34.85	263	351	Horizontal
4	3454.18	42.34	-45.80	29.42	-69.30	-13.00	56.30	265	0	Horizontal
5	5181.27	40.92	-44.18	32.60	-65.92	-13.00	52.92	241	0	Horizontal
6	6908.36	39.27	-42.44	36.02	-62.42	-13.00	49.42	122	276	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	1406.18	37.53	-25.79	25.41	-58.11	-13.00	45.11	196	117	Vertical
2	2109.27	37.02	-24.91	27.12	-56.03	-13.00	43.03	265	273	Vertical
3	2812.36	44.10	-23.65	28.96	-45.85	-13.00	32.85	284	83	Vertical
4	3454.18	41.94	-45.80	29.42	-69.70	-13.00	56.70	142	216	Vertical
5	5181.27	41.07	-44.18	32.60	-65.77	-13.00	52.77	263	265	Vertical
6	6908.36	39.78	-42.44	36.02	-61.91	-13.00	48.91	265	101	Vertical



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Test Band = CA Band 12A-66A_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	39.66	-25.77	25.41	-55.96	-13.00	42.96	196	242	Horizontal
2	2119.77	36.87	-24.90	27.14	-56.15	-13.00	43.15	265	10	Horizontal
3	2826.36	41.83	-23.61	29.01	-48.03	-13.00	35.03	241	355	Horizontal
4	3504.18	42.32	-45.67	29.41	-69.20	-13.00	56.20	142	327	Horizontal
5	5256.27	39.94	-44.07	32.60	-66.79	-13.00	53.79	263	0	Horizontal
6	7008.36	39.90	-42.58	36.21	-61.73	-13.00	48.73	214	47	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	1413.18	38.82	-25.77	25.41	-56.80	-13.00	43.80	296	113	Vertical
2	2119.77	36.76	-24.90	27.14	-56.26	-13.00	43.26	265	230	Vertical
3	2826.36	45.89	-23.61	29.01	-43.97	-13.00	30.97	284	72	Vertical
4	3504.18	42.33	-45.67	29.41	-69.19	-13.00	56.19	145	15	Vertical
5	5256.27	40.54	-44.07	32.60	-66.19	-13.00	53.19	263	0	Vertical
6	7008.36	39.41	-42.58	36.21	-62.22	-13.00	49.22	221	357	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



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	-1.30	-0.001837	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	0.50	0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	1.20	0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-1.10	-0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-0.20	-0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	0.30	0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	0.90	0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.30	-0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-1.10	-0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.10	-0.000141	PASS

---End of Attachment---



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