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Appendix B.4

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	23.1	22.95	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.75	22.6	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.86	22.71	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.92	21.77	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.06	22.91	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.82	22.67	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.72	22.57	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.83	21.68	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.56	23.41	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.37	23.22	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.29	23.14	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.57	22.42	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.88	21.73	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.15	22	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.08	21.93	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.14	20.99	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22	21.85	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.18	22.03	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.04	21.89	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.95	20.8	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.9	22.75	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.82	22.67	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.61	22.46	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.58	21.43	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.36	23.21	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.14	22.99	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.26	23.11	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	22.03	21.88	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.22	23.07	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.85	22.7	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.44	22.29	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.87	21.72	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.62	23.47	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.6	23.45	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.25	23.1	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.71	22.56	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.79	21.64	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.47	22.32	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.52	22.37	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.21	21.06	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.44	22.29	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.09	21.94	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.81	21.66	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.98	20.83	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.95	22.8	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.93	22.78	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.55	22.4	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.65	21.5	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.03	22.88	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.28	23.13	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.66	23.51	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.39	22.24	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.51	23.36	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.88	22.73	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.69	22.54	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.99	21.84	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.3	23.15	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.83	23.68	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.4	23.25	34.77	PASS



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Band12	5MHz	QPSK	23155	25RB#0	22.65	22.5	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.1	21.95	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.65	22.5	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.02	22.87	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.55	21.4	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.8	22.65	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.13	21.98	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.02	21.87	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.07	20.92	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.56	22.41	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.11	22.96	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.74	22.59	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.77	21.62	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.25	23.1	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.49	23.34	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.46	22.31	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.31	22.16	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.58	23.43	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.82	22.67	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.18	23.03	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.13	21.98	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.29	23.14	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.11	22.96	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.43	23.28	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.39	22.24	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.04	21.89	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.89	22.74	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.03	21.88	34.77	PASS
Band12	10MHz	16QAM	23060	27RB#0	22.35	22.2	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.78	22.63	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.14	21.99	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.35	22.2	34.77	PASS



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Band12	10MHz	16QAM	23095	27RB#0	22.91	22.76	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.53	22.38	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.51	22.36	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.76	22.61	34.77	PASS
Band12	10MHz	16QAM	23130	27RB#0	22.97	22.82	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	5.72	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.70	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.78	13	PASS



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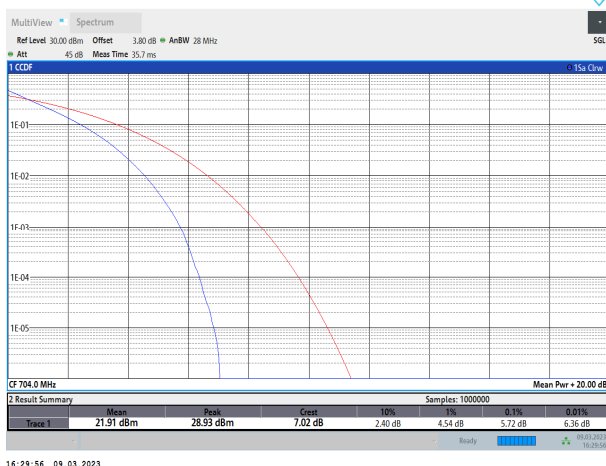
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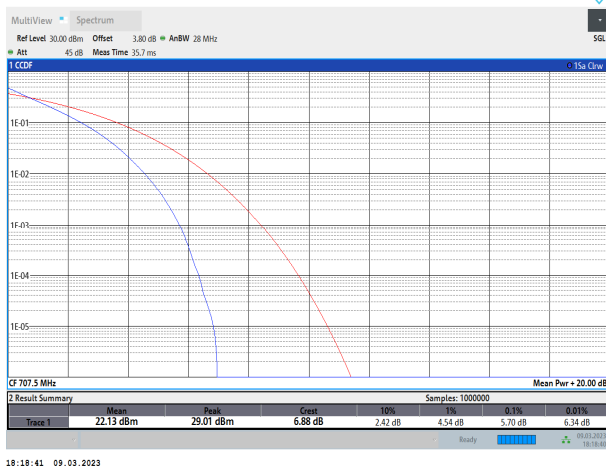
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Test Graphs

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



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



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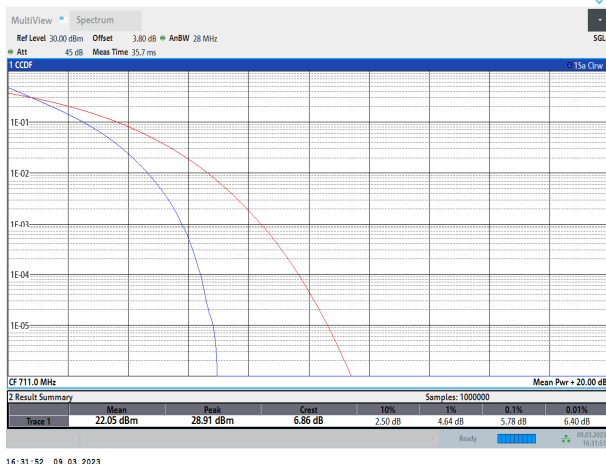
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Band12-10MHz-QPSK-23130-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	5MHz	QPSK	23095	25RB#0	PASS	PASS
Band12	5MHz	16QAM	23095	25RB#0	PASS	PASS



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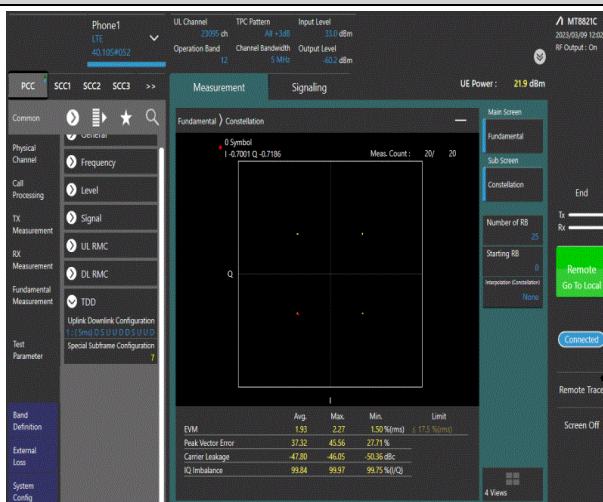
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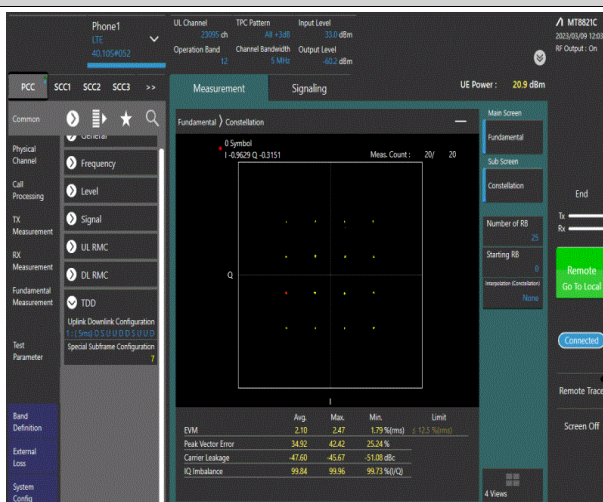
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Test Graphs

Band12-5MHz-QPSK-23095-50RB#0



Band12-5MHz-16QAM-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	1.088	1.30	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.036	1.14	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.054	1.18	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.099	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.695	3.00	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.698	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.695	2.99	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.688	3.01	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.687	3.02	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.689	3.01	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.467	4.95	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.468	4.94	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.469	4.93	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.467	4.97	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.464	4.94	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.464	4.97	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.926	9.86	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.933	9.96	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.947	9.94	PASS
Band12	10MHz	16QAM	23060	27RB#0	4.886	5.90	PASS
Band12	10MHz	16QAM	23095	27RB#0	4.877	5.88	PASS
Band12	10MHz	16QAM	23130	27RB#0	4.886	5.90	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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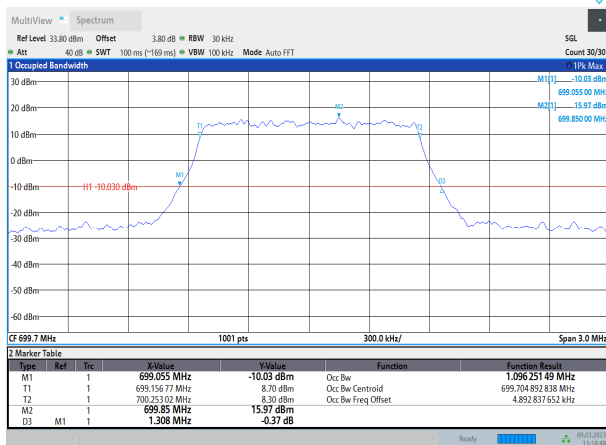
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Band12-1.4MHz-QPSK-23173-6RB#0



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



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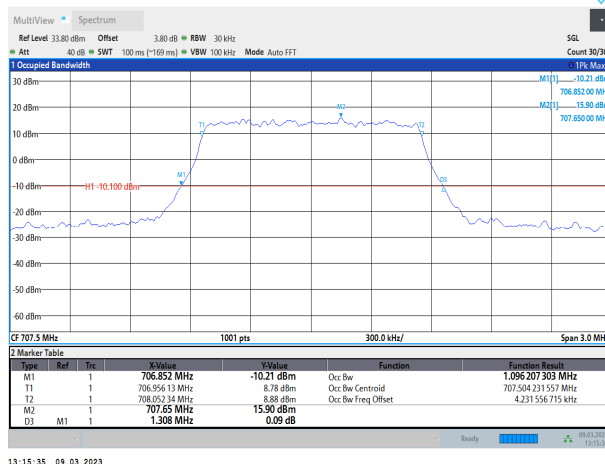
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Band12-1.4MHz-16QAM-23173-6RB#0



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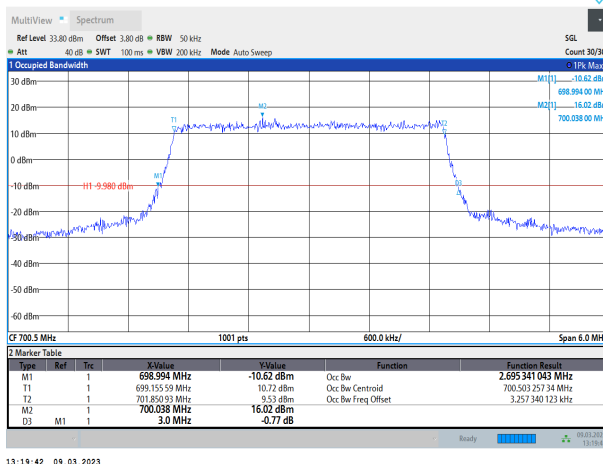
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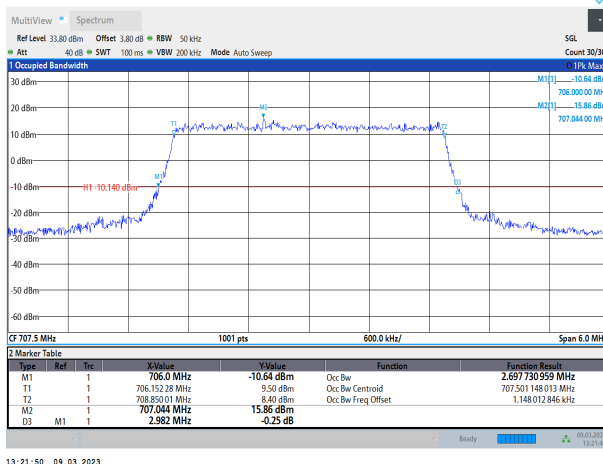
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Band12-3MHz-QPSK-23025-15RB#0



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



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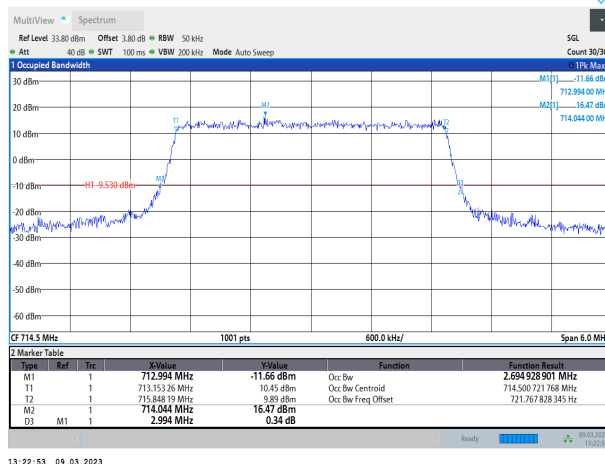
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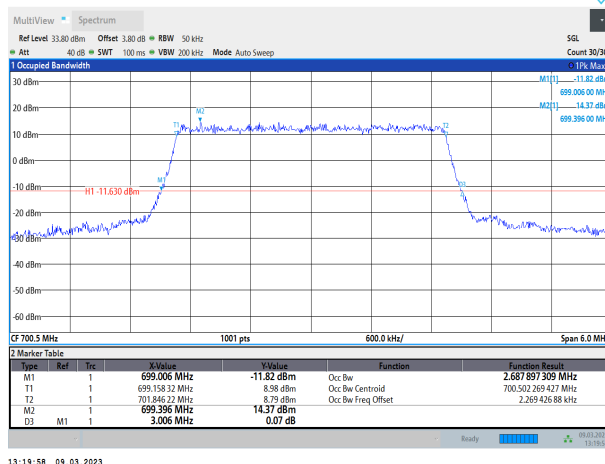
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Band12-3MHz-QPSK-23165-15RB#0



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



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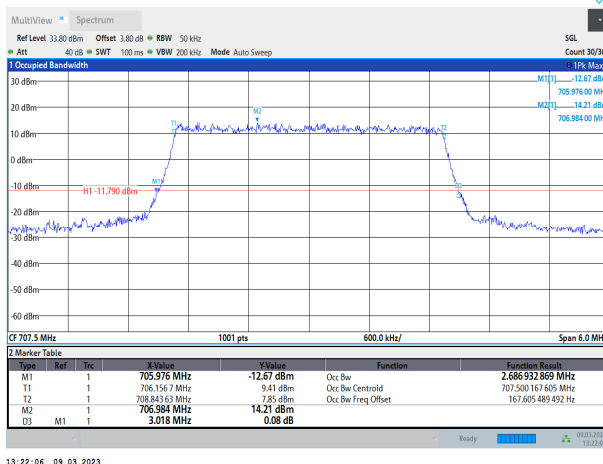
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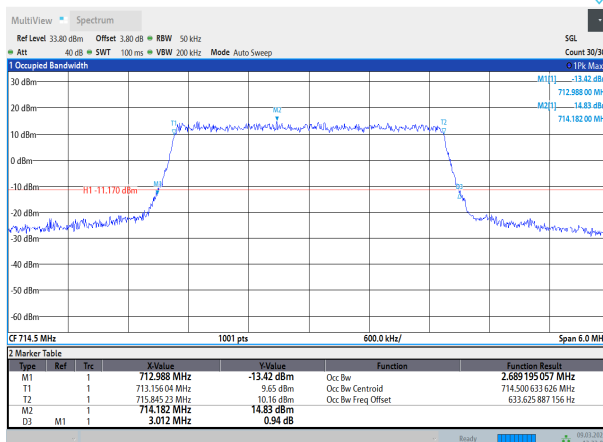
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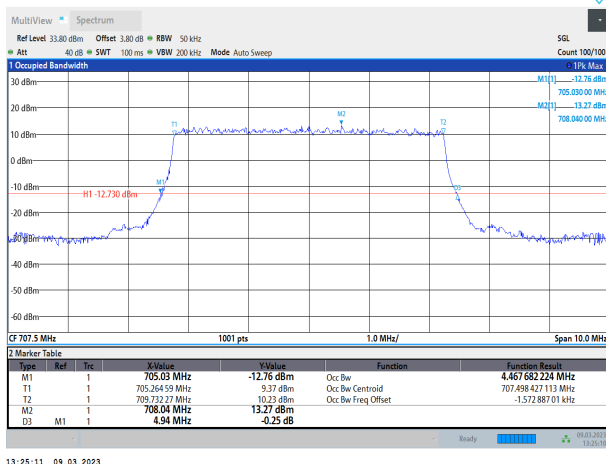
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Band12-5MHz-QPSK-23035-25RB#0



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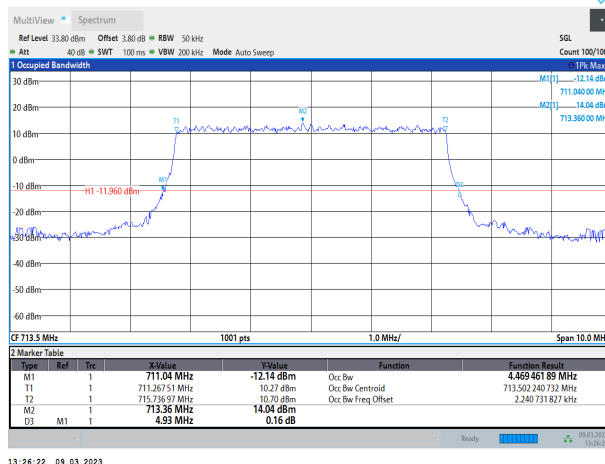
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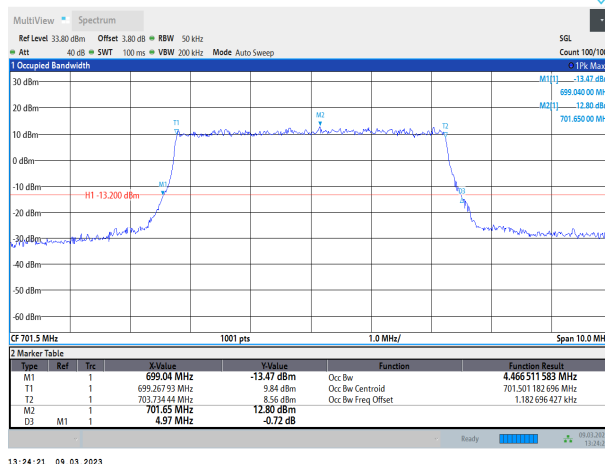
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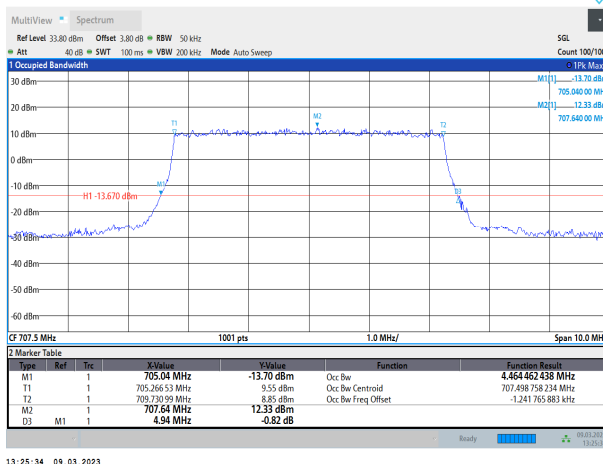


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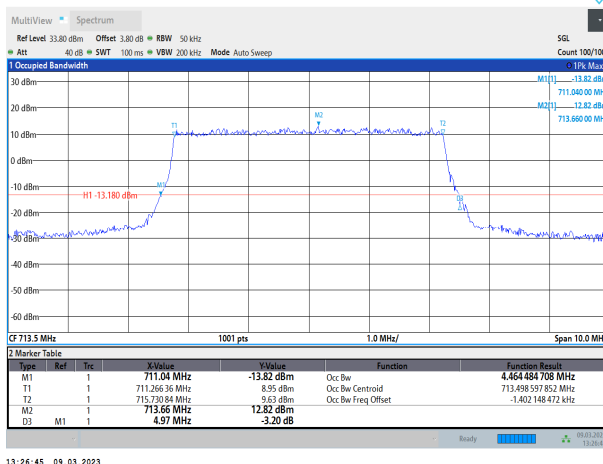
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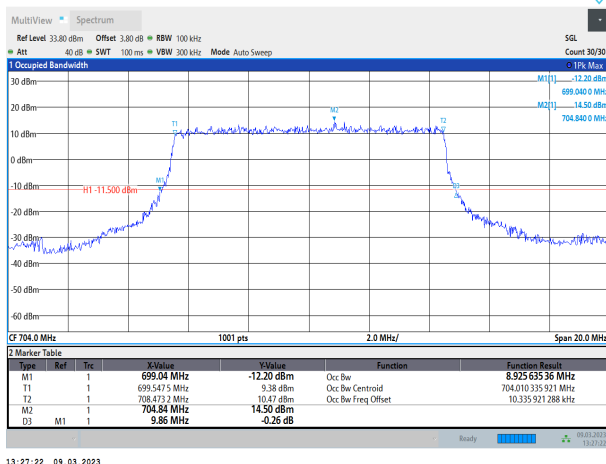
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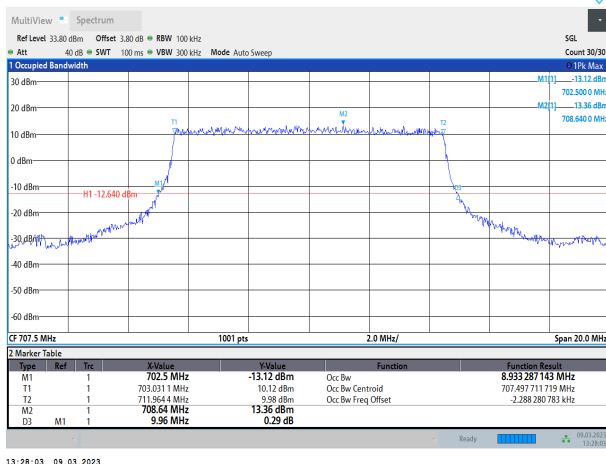
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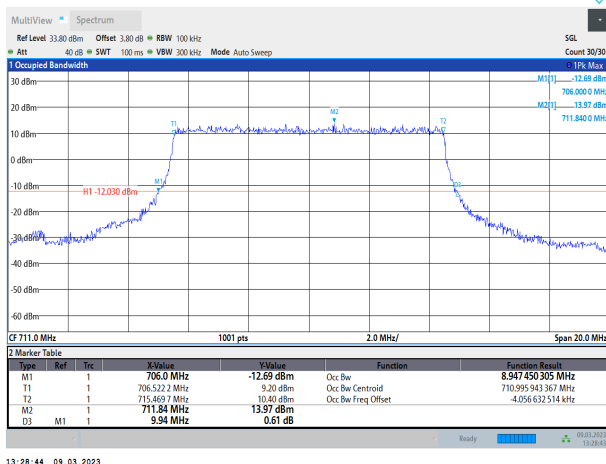
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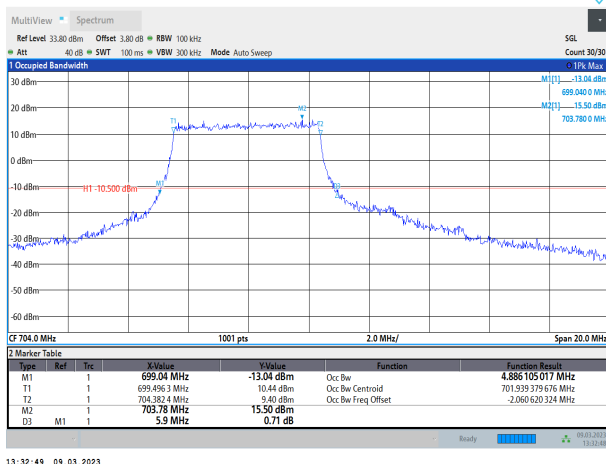
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Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-16QAM-23060-27RB#0



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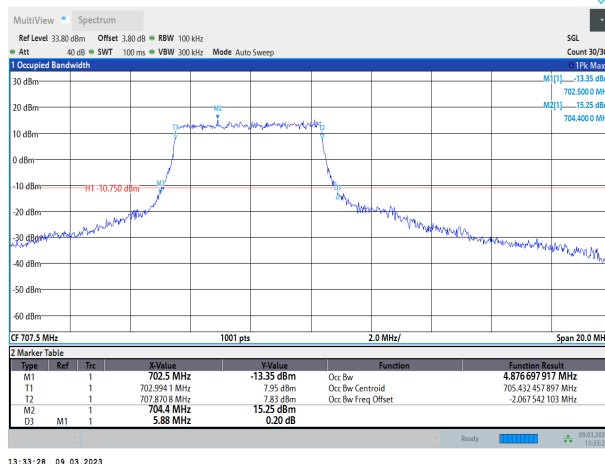
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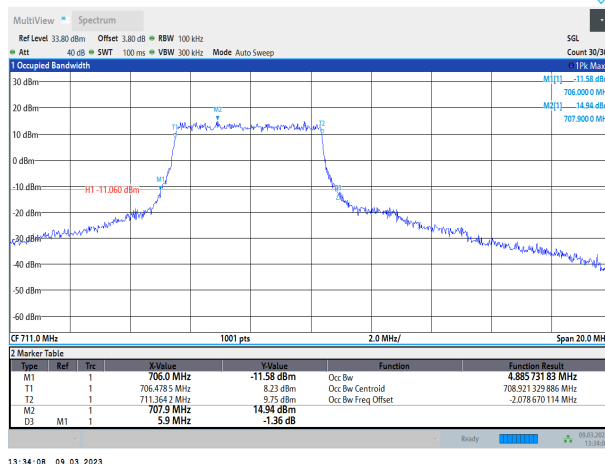
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Band12-10MHz-16QAM-23095-27RB#0



Band12-10MHz-16QAM-23130-27RB#0



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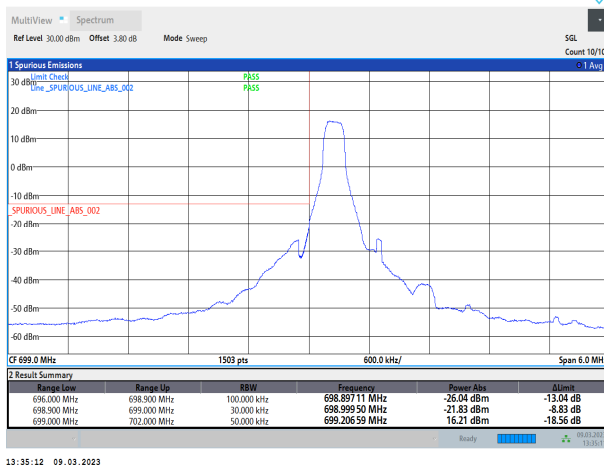
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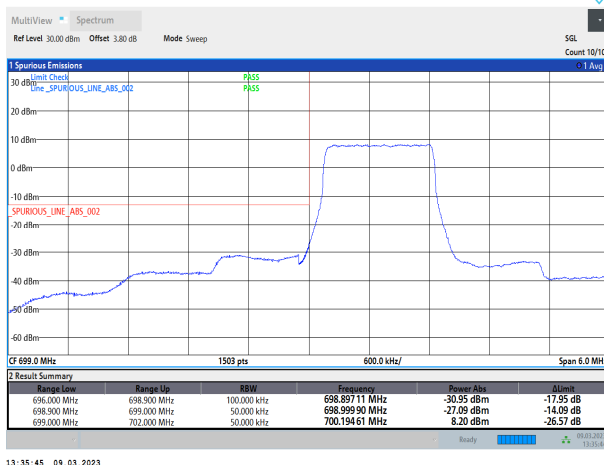
Band Edge

Test Graphs

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



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



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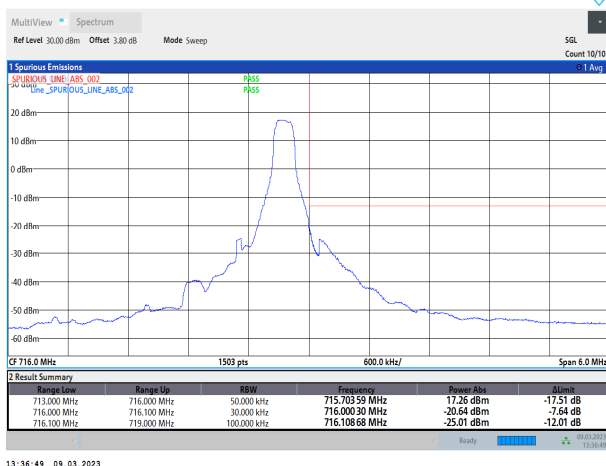
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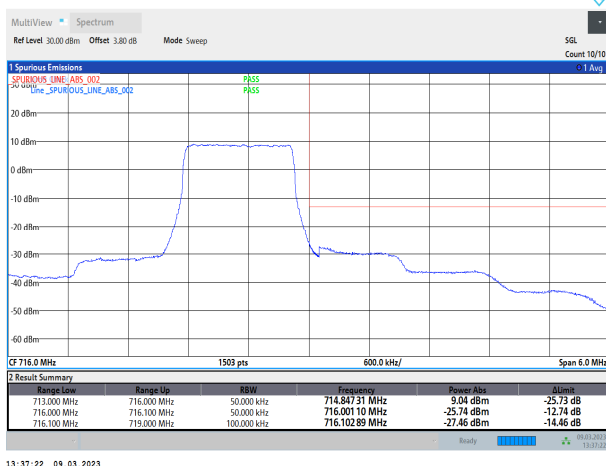
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Band12-1.4MHz-QPSK-23173-1RB#5



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



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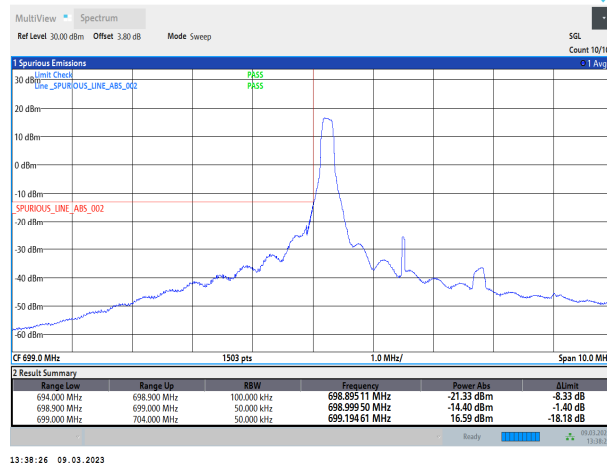
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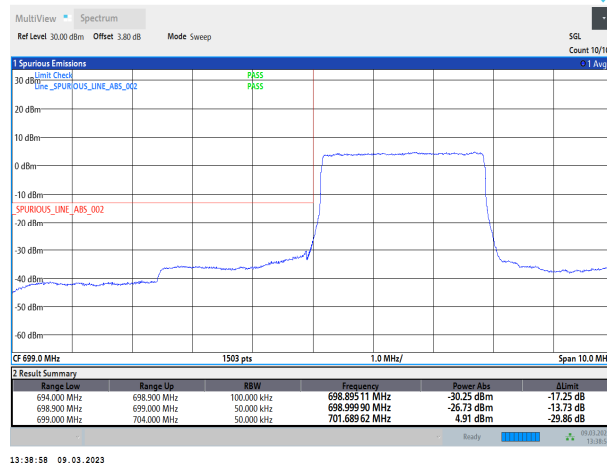
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Band12-3MHz-QPSK-23025-1RB#0



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



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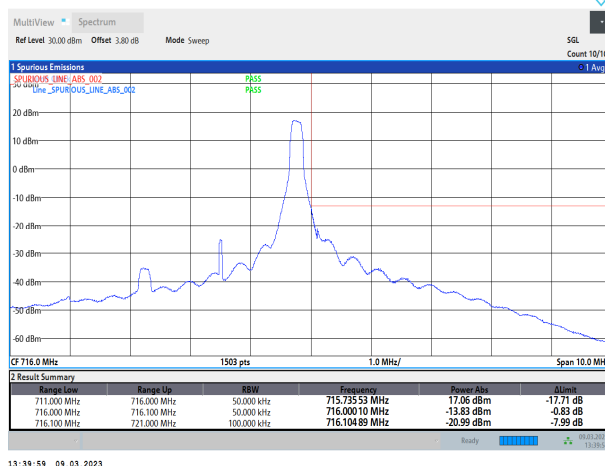
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Band12-3MHz-QPSK-23165-1RB#14



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



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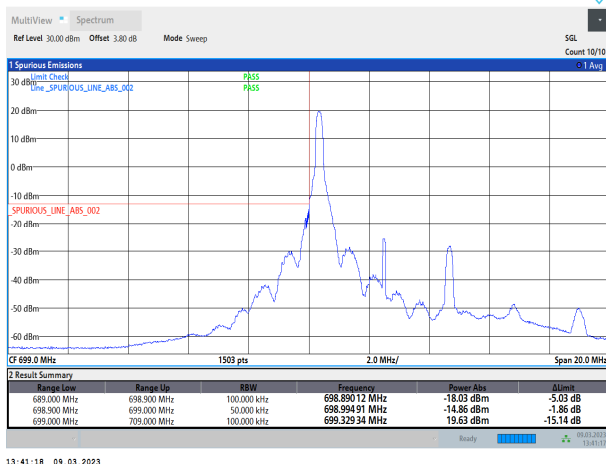
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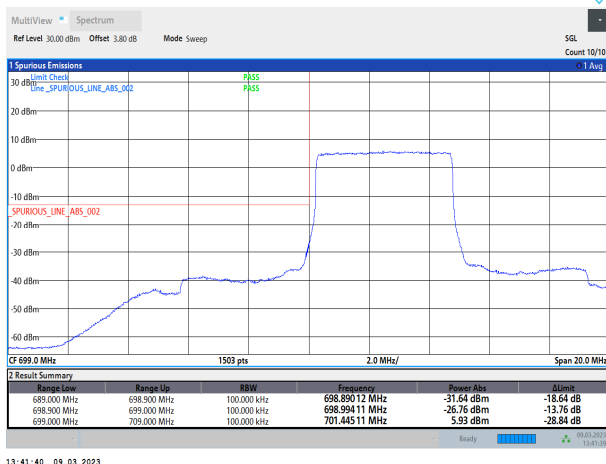
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Band12-5MHz-QPSK-23035-1RB#0



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

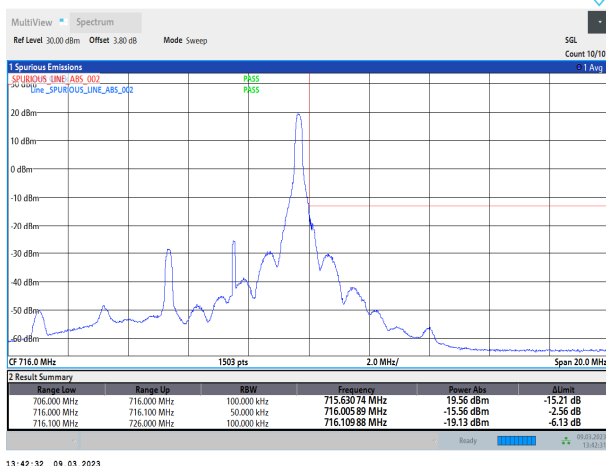


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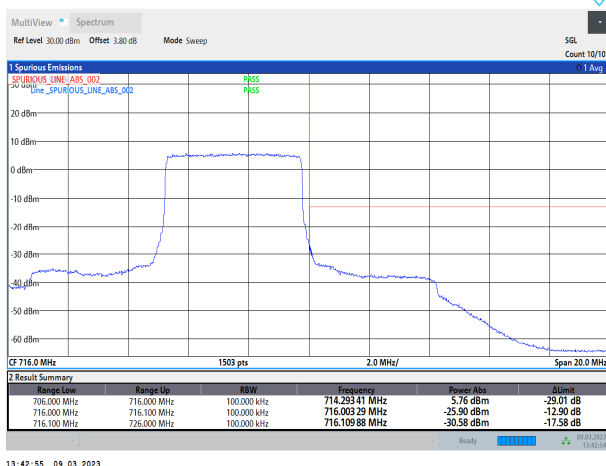
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Band12-5MHz-QPSK-23155-25RB#0



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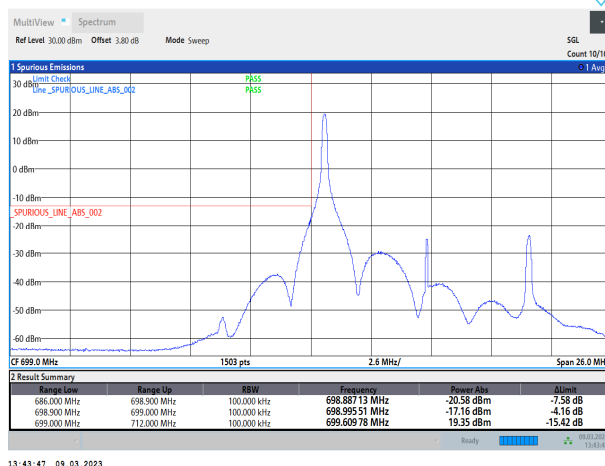
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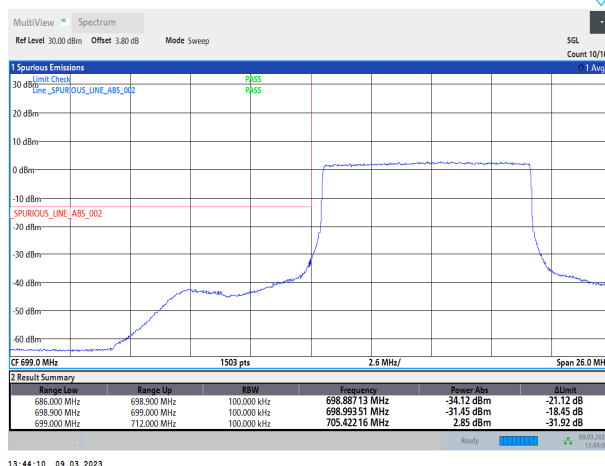
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Band12-10MHz-QPSK-23060-1RB#0



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



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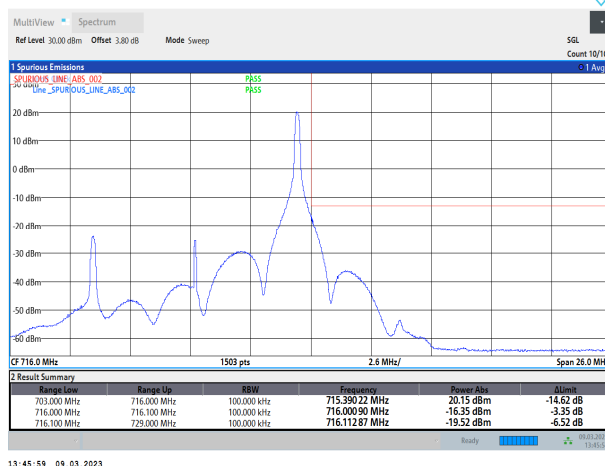
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Band12-10MHz-QPSK-23130-1RB#49



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



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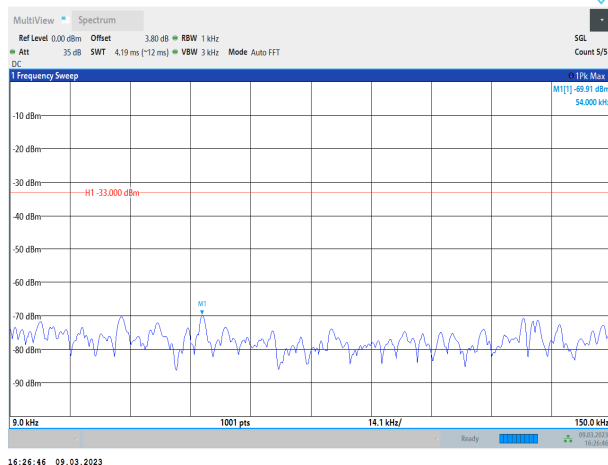
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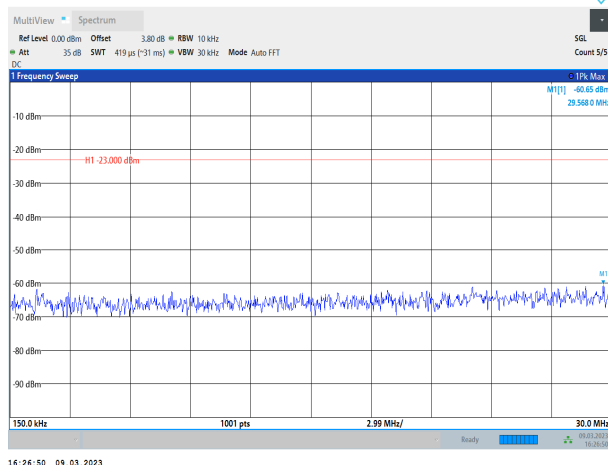
Conducted Spurious Emission

Test Graphs

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



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

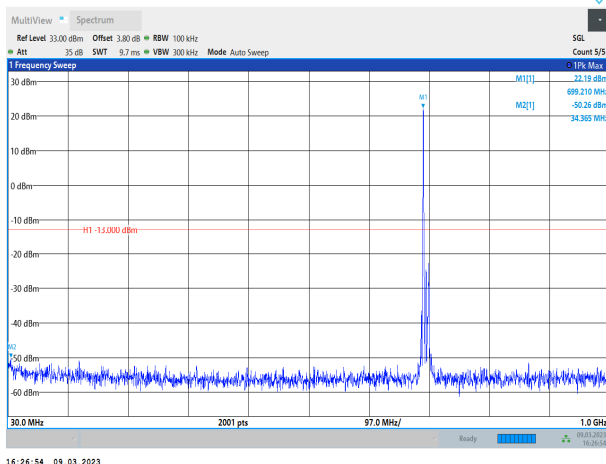


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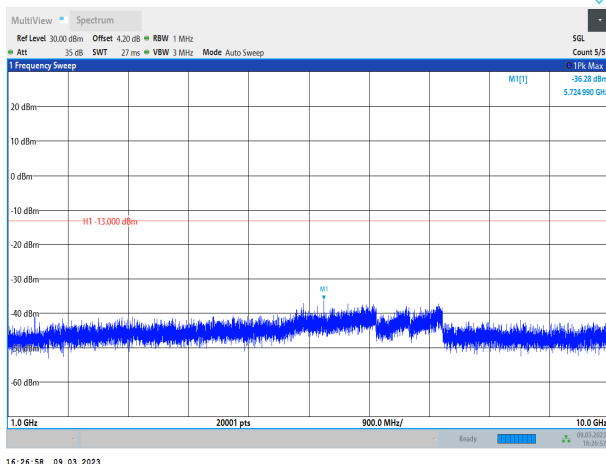
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



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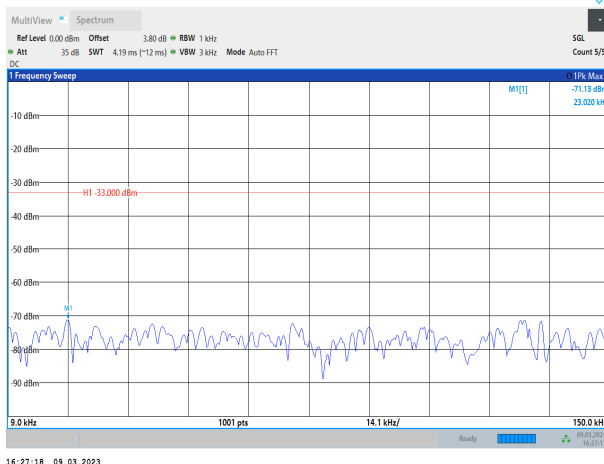
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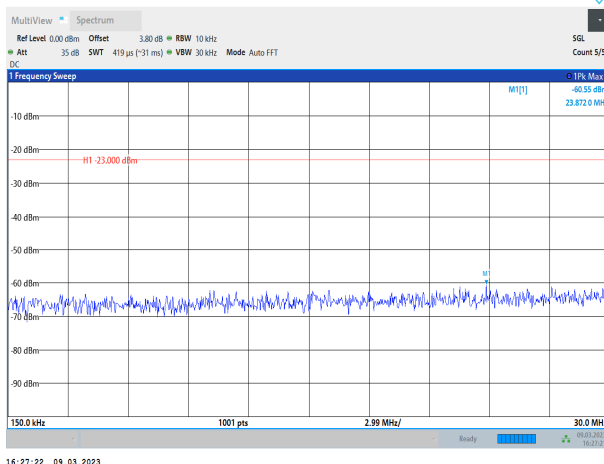
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



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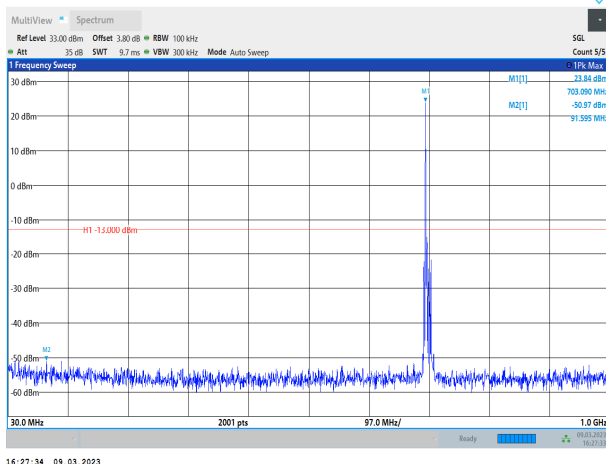
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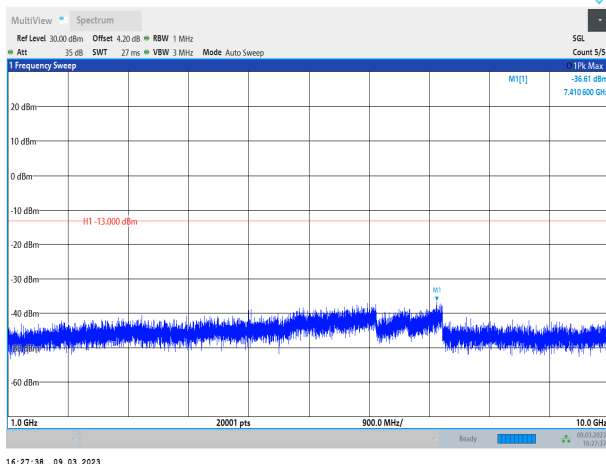
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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



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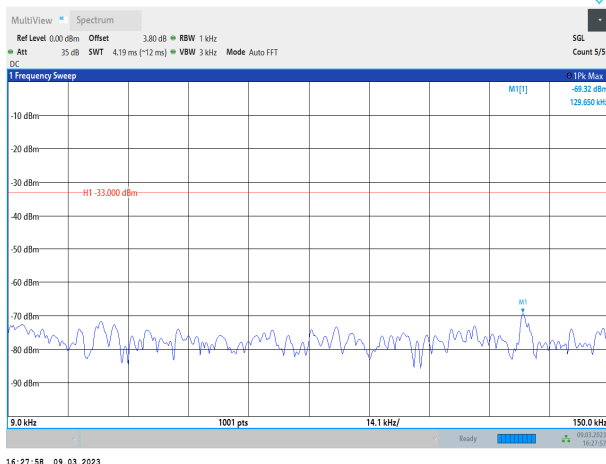
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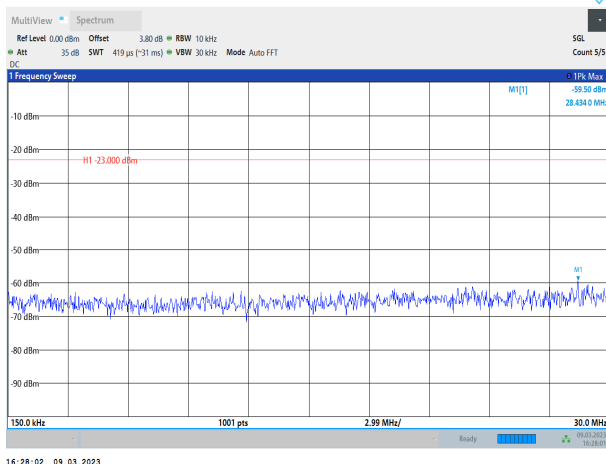
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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



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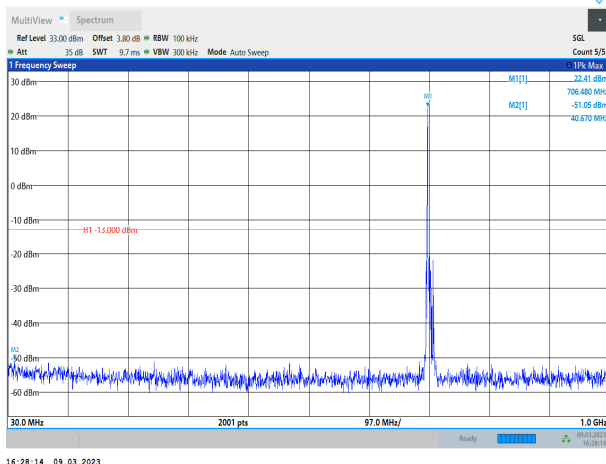
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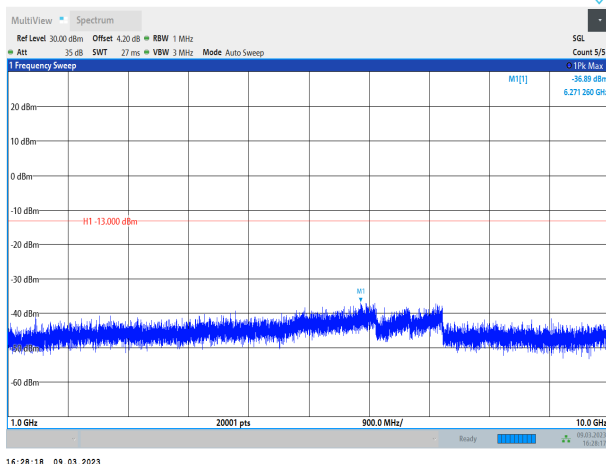
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 12_QPSK_5MHz_ 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	1399.1111	59.70	-48.73	25.40	-58.89	-13.00	45.89	184	314	Horizontal
2	2098.77	43.29	-47.88	27.10	-72.75	-13.00	59.75	256	64	Horizontal
3	2798.36	43.02	-46.69	28.92	-70.01	-13.00	57.01	232	221	Horizontal
4	3497.95	42.23	-46.05	29.40	-69.68	-13.00	56.68	165	345	Horizontal
5	4197.54	41.51	-45.12	30.92	-67.95	-13.00	54.95	179	357	Horizontal
6	4897.13	40.04	-45.14	32.35	-68.00	-13.00	55.00	208	236	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	1399.1111	55.18	-48.73	25.40	-63.41	-13.00	50.41	216	3	Vertical
2	2098.77	48.71	-47.88	27.10	-67.33	-13.00	54.33	189	356	Vertical
3	2798.36	42.96	-46.69	28.92	-70.07	-13.00	57.07	234	360	Vertical
4	3497.95	42.89	-46.05	29.40	-69.02	-13.00	56.02	268	3	Vertical
5	4197.54	42.77	-45.12	30.92	-66.69	-13.00	53.69	174	249	Vertical
6	4897.13	40.87	-45.14	32.35	-67.17	-13.00	54.17	181	15	Vertical



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Test Band = LTE Band 12_QPSK_5MHz_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	55.57	-48.72	25.41	-63.00	-13.00	50.00	362	329	Horizontal
2	2109.27	43.75	-47.87	27.12	-72.26	-13.00	59.26	285	0	Horizontal
3	2812.36	44.25	-46.69	28.96	-68.74	-13.00	55.74	241	173	Horizontal
4	3515.45	42.52	-46.03	29.44	-69.34	-13.00	56.34	142	204	Horizontal
5	4218.54	40.99	-45.11	30.95	-68.43	-13.00	55.43	296	283	Horizontal
6	4921.63	40.05	-45.12	32.41	-67.92	-13.00	54.92	287	95	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	50.59	-48.72	25.41	-67.98	-13.00	54.98	296	360	Vertical
2	2109.27	45.60	-47.87	27.12	-70.41	-13.00	57.41	285	142	Vertical
3	2812.36	44.73	-46.69	28.96	-68.26	-13.00	55.26	241	297	Vertical
4	3515.45	44.45	-46.03	29.44	-67.41	-13.00	54.41	142	314	Vertical
5	4218.54	41.70	-45.11	30.95	-67.72	-13.00	54.72	252	126	Vertical
6	4921.63	39.99	-45.12	32.41	-67.98	-13.00	54.98	263	174	Vertical



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Test Band = LTE Band 12_QPSK_5MHz_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	57.56	-48.70	25.41	-60.98	-13.00	47.98	196	113	Horizontal
2	2119.77	43.94	-47.85	27.14	-72.03	-13.00	59.03	285	18	Horizontal
3	2826.36	44.17	-46.71	29.01	-68.79	-13.00	55.79	274	160	Horizontal
4	3532.95	42.25	-46.01	29.48	-69.54	-13.00	56.54	142	64	Horizontal
5	4239.54	41.43	-45.11	30.98	-67.96	-13.00	54.96	263	0	Horizontal
6	4946.13	39.99	-45.09	32.47	-67.88	-13.00	54.88	368	113	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	53.35	-48.70	25.41	-65.19	-13.00	52.19	296	3	Vertical
2	2119.77	47.67	-47.85	27.14	-68.30	-13.00	55.30	285	360	Vertical
3	2826.36	45.39	-46.71	29.01	-67.57	-13.00	54.57	241	344	Vertical
4	3532.95	41.71	-46.01	29.48	-70.08	-13.00	57.08	142	142	Vertical
5	4239.54	41.79	-45.11	30.98	-67.60	-13.00	54.60	263	360	Vertical
6	4946.13	39.80	-45.09	32.47	-68.07	-13.00	55.07	225	204	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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-5.40	-0.007633	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-5.40	-0.007633	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-0.60	-0.000848	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-2.10	-0.002968	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-3.20	-0.004523	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-2.70	-0.003816	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-2.20	-0.003110	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.30	-0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-1.20	-0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.00	0.000000	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-2.40	-0.003392	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-3.30	-0.004664	PASS

---End of Attachment---



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