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# Appendix



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

## 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	26.25	21.12	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	26.23	21.1	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	26.05	20.92	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	26.27	21.14	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	26.55	21.42	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	26.39	21.26	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	25.18	20.05	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	26.49	21.36	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	26.48	21.35	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	26.51	21.38	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	26.49	21.36	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	26.72	21.59	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	26.53	21.4	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	25.38	20.25	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	26.38	21.25	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	26.34	21.21	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	26.31	21.18	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	26.37	21.24	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	26.47	21.34	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	26.53	21.4	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	25.43	20.3	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	24.86	19.73	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	25.09	19.96	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	24.89	19.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	25.50	20.37	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	25.46	20.33	34.77	PASS



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Band12	1.4MHz	16QAM	23017	3RB#3	25.40	20.27	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	24.36	19.23	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	25.03	19.9	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	24.98	19.85	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	24.93	19.8	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	25.64	20.51	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	25.77	20.64	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	25.66	20.53	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	24.48	19.35	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	24.98	19.85	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	25.63	20.5	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	25.06	19.93	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	25.73	20.6	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	25.63	20.5	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	25.70	20.57	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	24.53	19.4	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	26.26	21.13	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	26.38	21.25	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	26.34	21.21	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	25.19	20.06	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	25.33	20.2	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	25.38	20.25	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	25.27	20.14	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	26.43	21.3	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	26.38	21.25	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	26.37	21.24	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	25.44	20.31	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	25.44	20.31	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	25.48	20.35	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	25.56	20.43	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	26.49	21.36	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	26.35	21.22	34.77	PASS



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Band12	3MHz	QPSK	23165	1RB#14	26.41	21.28	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	25.44	20.31	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	25.56	20.43	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	25.50	20.37	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	25.48	20.35	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	24.81	19.68	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	24.86	19.73	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	24.93	19.8	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	24.18	19.05	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	24.49	19.36	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	24.56	19.43	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	24.37	19.24	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	25.08	19.95	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	25.00	19.87	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	25.01	19.88	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	24.56	19.43	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	24.42	19.29	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	24.30	19.17	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	24.55	19.42	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	25.02	19.89	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	24.92	19.79	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	25.52	20.39	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	24.64	19.51	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	24.68	19.55	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	24.67	19.54	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	24.51	19.38	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	26.25	21.12	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	26.59	21.46	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	26.44	21.31	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	25.30	20.17	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	25.53	20.4	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	25.43	20.3	34.77	PASS



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Band12	5MHz	QPSK	23035	25RB#0	25.46	20.33	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	26.55	21.42	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	26.63	21.5	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	26.43	21.3	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	25.44	20.31	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	25.47	20.34	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	25.57	20.44	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	25.57	20.44	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	26.50	21.37	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	26.40	21.27	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	26.19	21.06	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	25.47	20.34	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	25.47	20.34	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	25.41	20.28	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	25.55	20.42	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	24.96	19.83	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	25.53	20.4	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	25.03	19.9	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	24.35	19.22	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	24.56	19.43	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	24.38	19.25	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	24.56	19.43	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	25.36	20.23	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	25.17	20.04	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	25.52	20.39	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#0	24.40	19.27	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	24.61	19.48	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	24.56	19.43	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	24.59	19.46	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	25.47	20.34	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	25.39	20.26	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	25.51	20.38	34.77	PASS



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Band12	5MHz	16QAM	23155	12RB#0	24.55	19.42	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	24.52	19.39	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	24.47	19.34	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	24.66	19.53	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	26.18	21.05	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	26.53	21.4	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	26.42	21.29	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	25.41	20.28	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	25.54	20.41	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	25.36	20.23	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	25.39	20.26	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	26.28	21.15	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	26.58	21.45	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	26.34	21.21	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	25.53	20.4	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	25.56	20.43	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	25.38	20.25	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	25.48	20.35	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	26.37	21.24	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	26.54	21.41	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	26.40	21.27	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	25.66	20.53	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#12	25.61	20.48	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#25	25.46	20.33	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	25.54	20.41	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	24.81	19.68	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	25.30	20.17	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	25.11	19.98	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	24.52	19.39	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	24.44	19.31	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	24.41	19.28	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	24.49	19.36	34.77	PASS



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Band12	10MHz	16QAM	23095	1RB#0	24.97	19.84	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	25.04	19.91	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	24.99	19.86	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	24.42	19.29	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	24.67	19.54	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	24.40	19.27	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	24.53	19.4	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	25.03	19.9	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	25.60	20.47	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	25.50	20.37	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	24.42	19.29	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	24.53	19.4	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	24.51	19.38	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	24.56	19.43	34.77	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth h	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	4.60	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	4.40	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.26	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.46	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.40	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.24	13	PASS

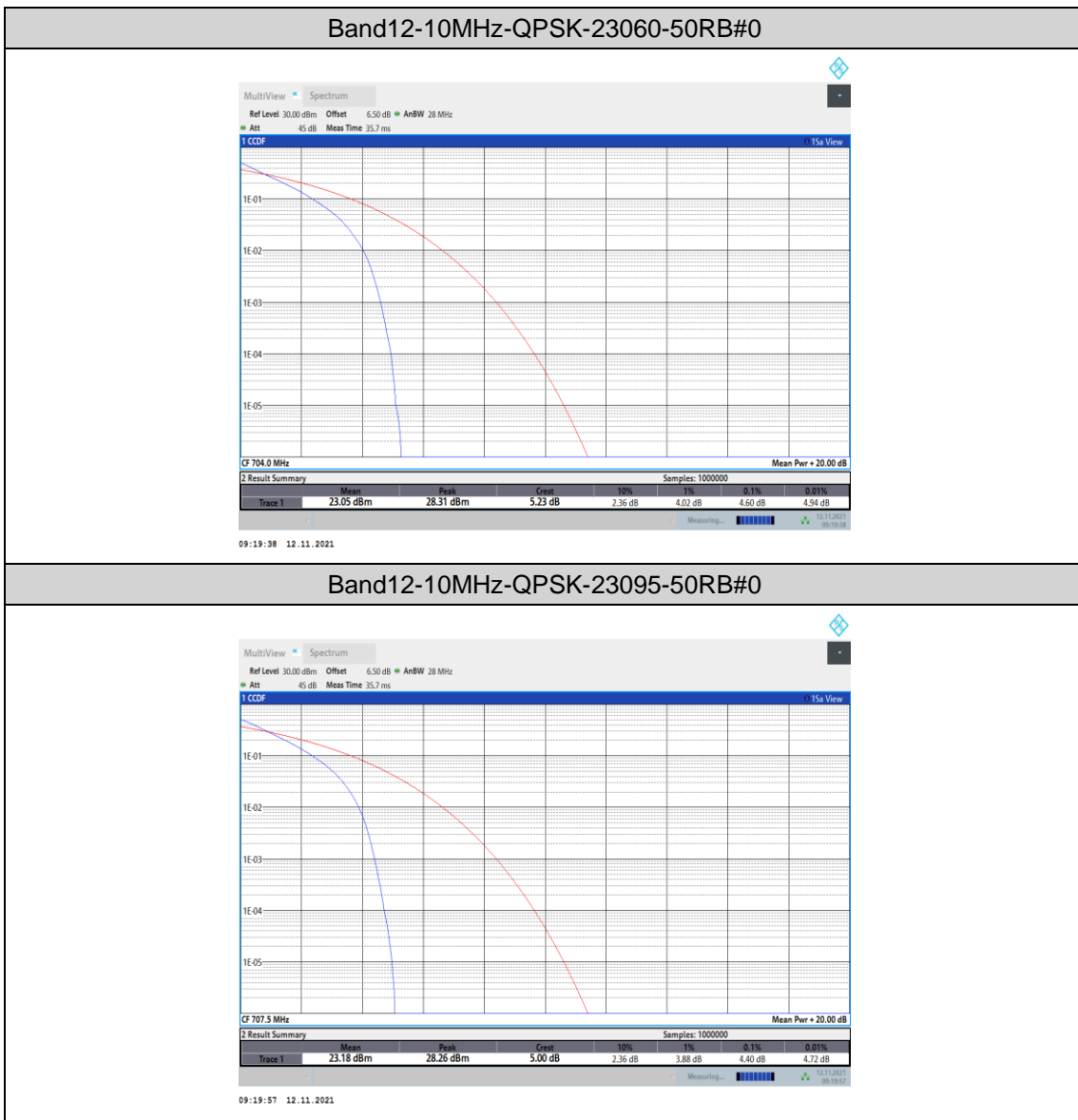


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Test Graphs

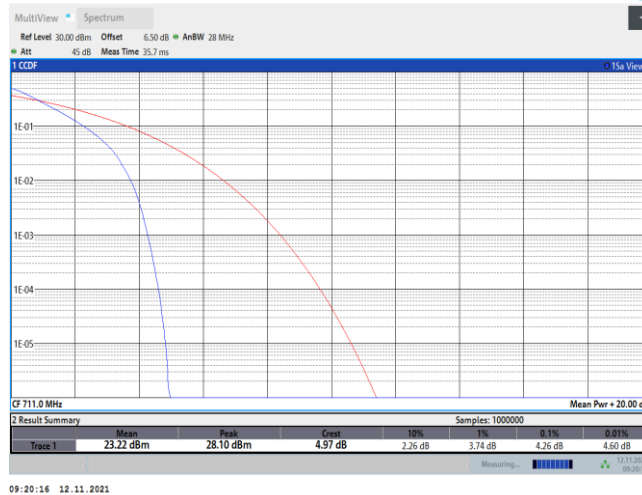


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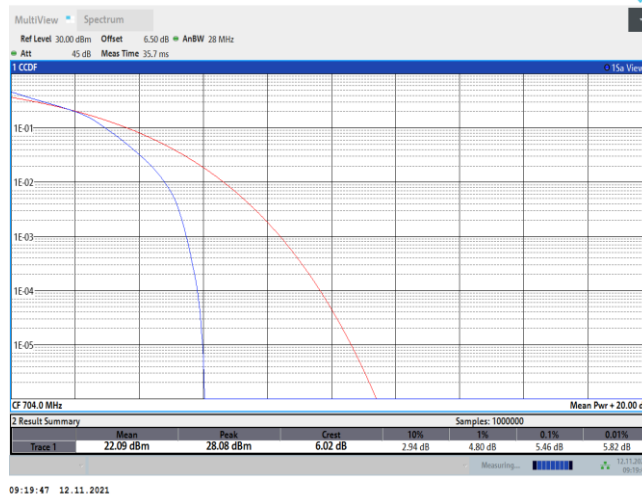
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Band12-10MHz-QPSK-23130-50RB#0



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



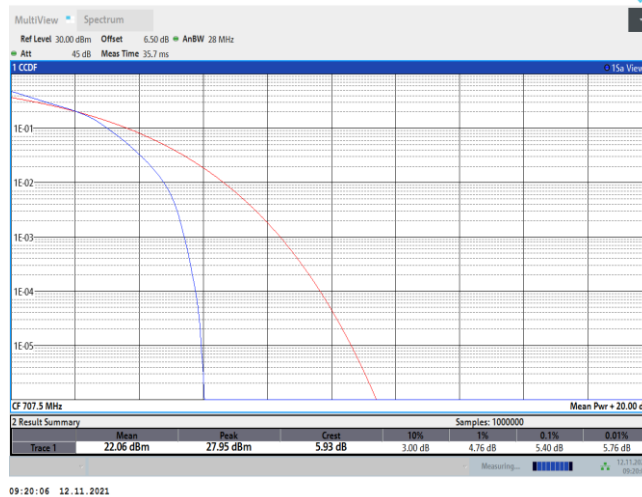
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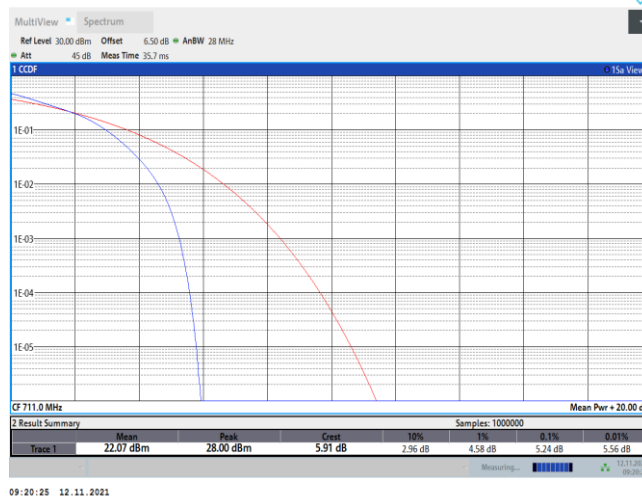
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Band12-10MHz-16QAM-23095-50RB#0



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



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## Modulation Characteristics

### Test Result

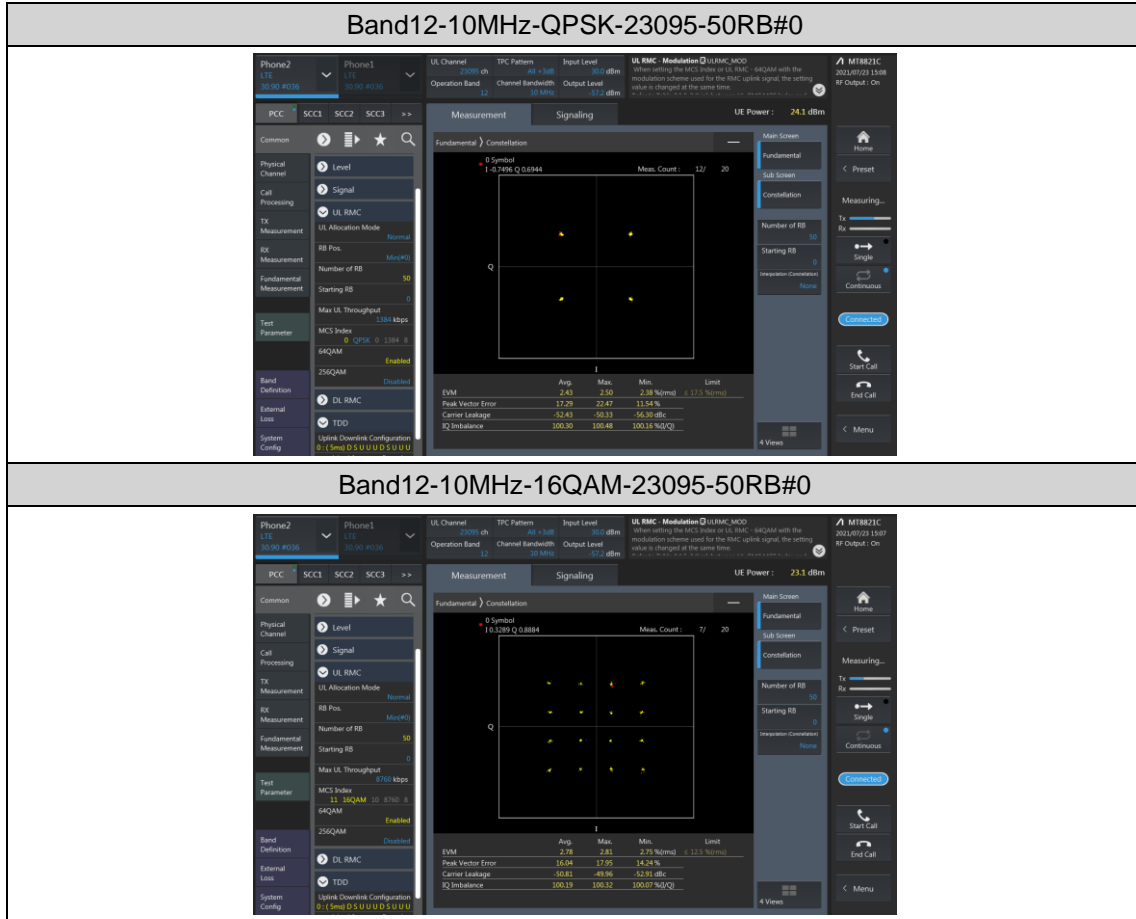
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS



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Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

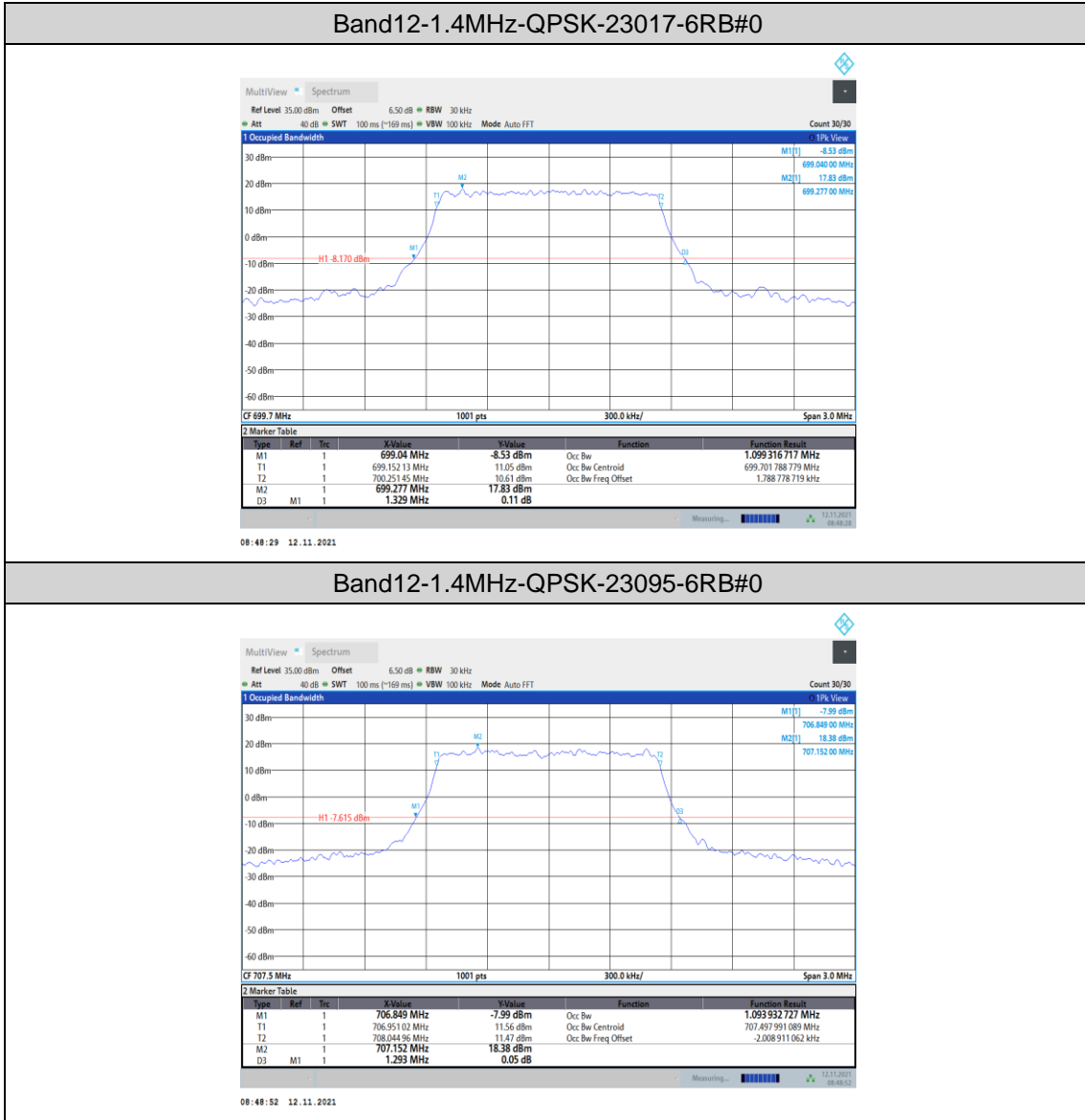
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.099	1.329	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.094	1.293	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.102	1.374	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.091	1.290	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.098	1.311	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.093	1.305	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.7	2.988	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.694	2.970	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.705	2.982	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.691	2.970	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.695	2.982	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.697	2.970	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.48	4.940	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.469	4.930	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.485	4.930	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.476	4.880	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.475	4.960	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.483	4.950	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.93	9.740	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.926	9.740	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.918	9.700	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.919	9.640	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.93	9.760	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.92	9.640	PASS



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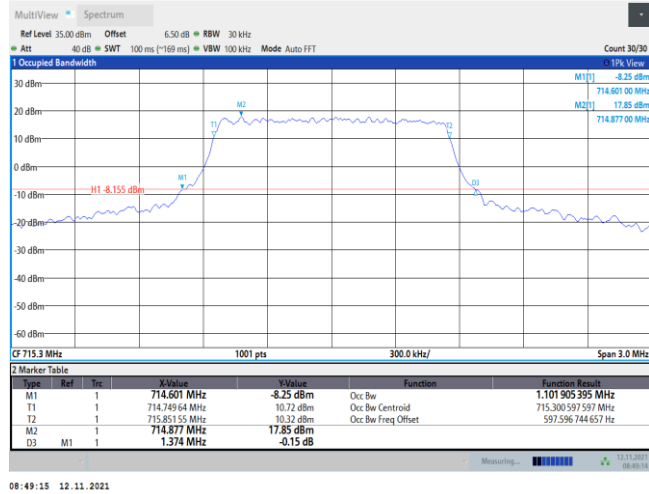
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Band12-1.4MHz-QPSK-23173-6RB#0



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

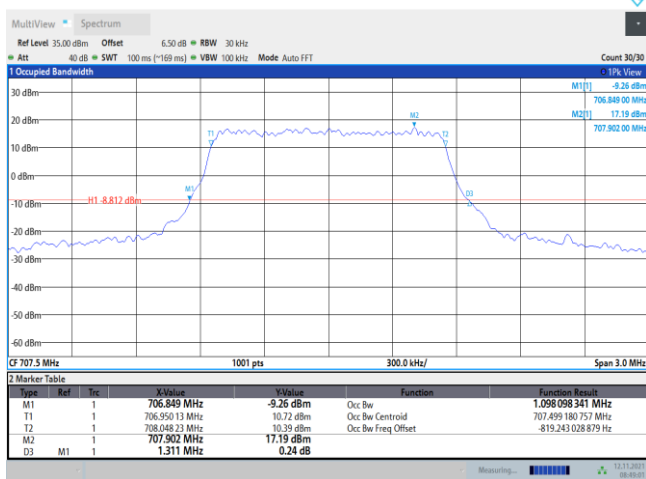


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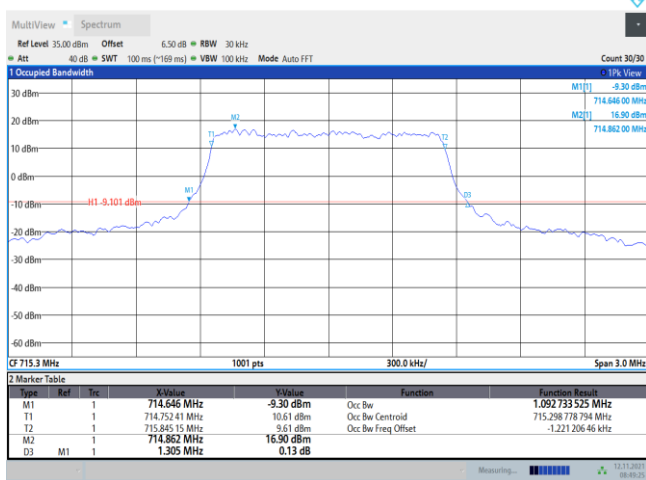


Band12-1.4MHz-16QAM-23095-6RB#0



08:49:02 12.11.2021

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



08:49:25 12.11.2021



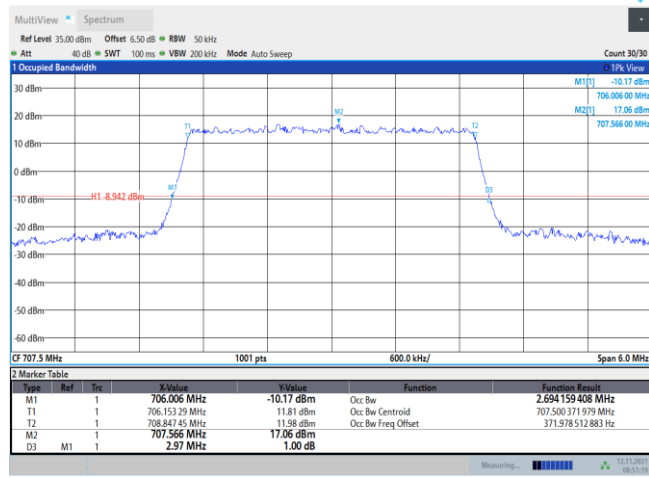
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Band12-3MHz-QPSK-23025-15RB#0



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



08:51:19 12.11.2021



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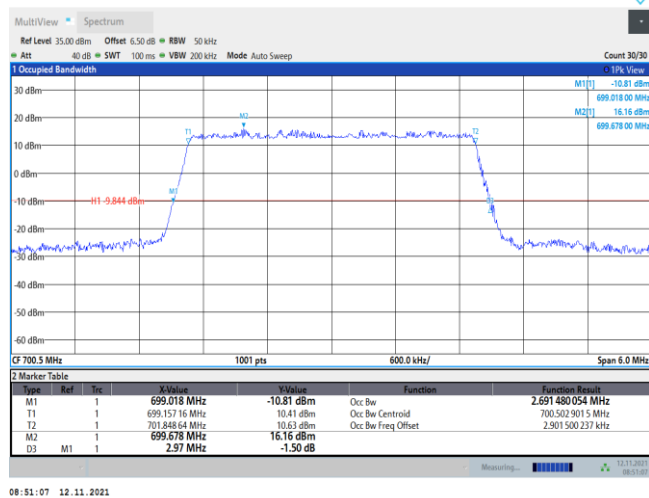
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Band12-3MHz-QPSK-23165-15RB#0



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



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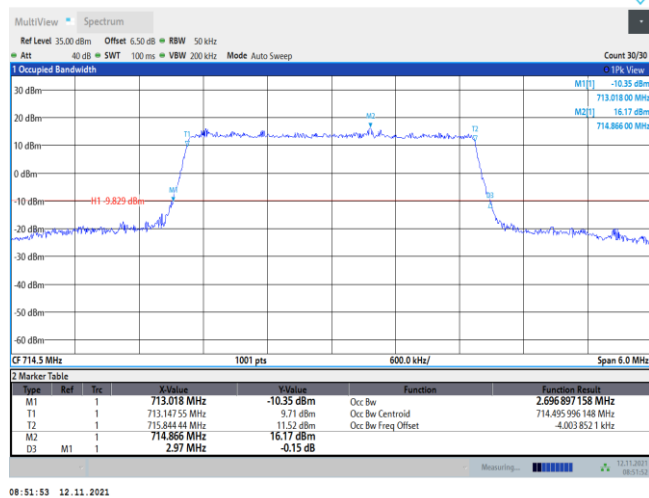
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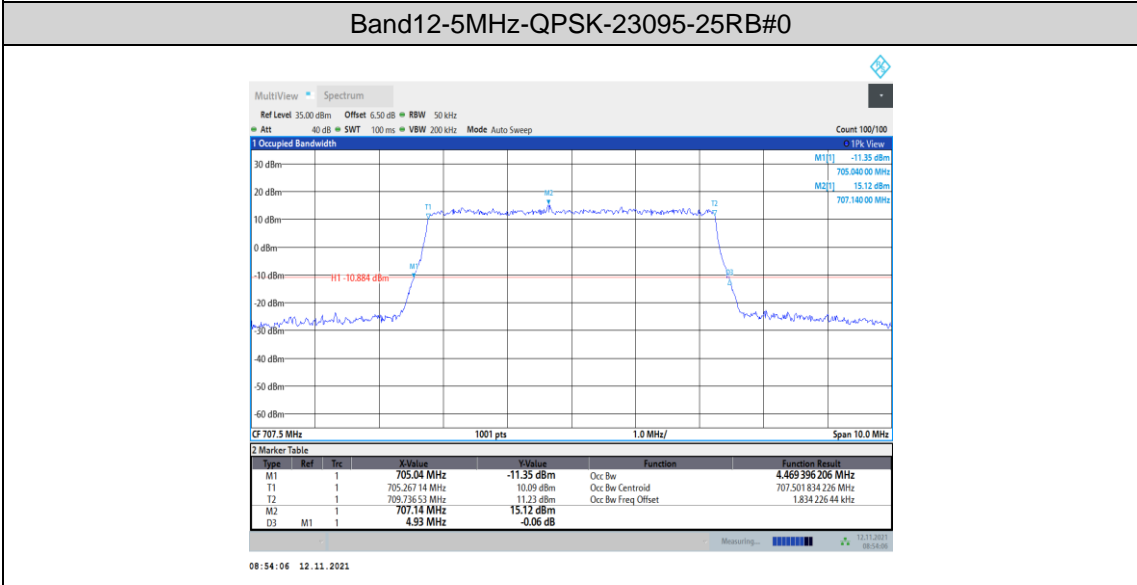
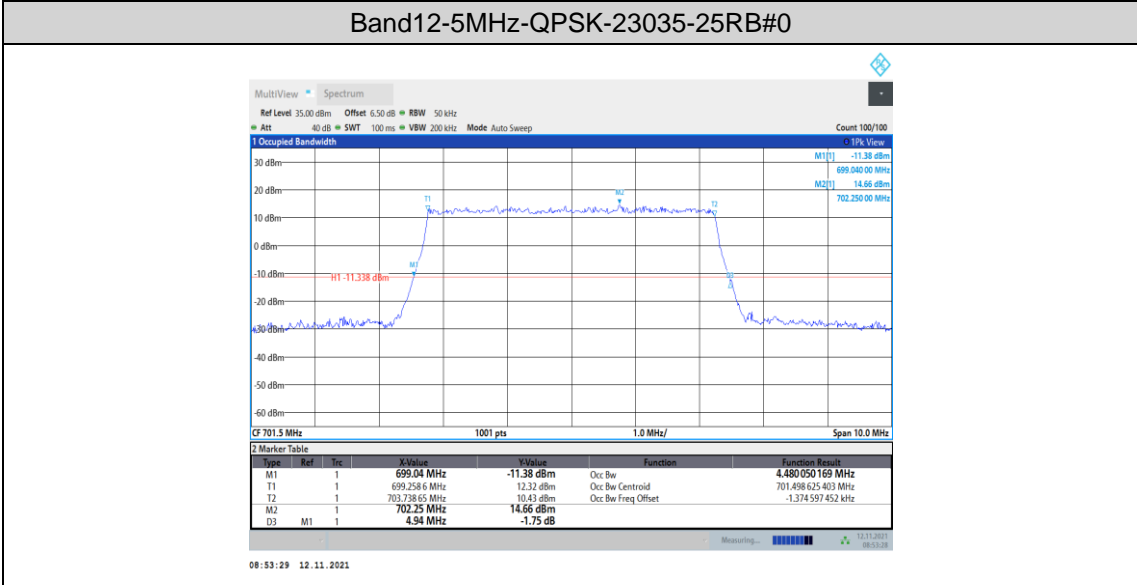
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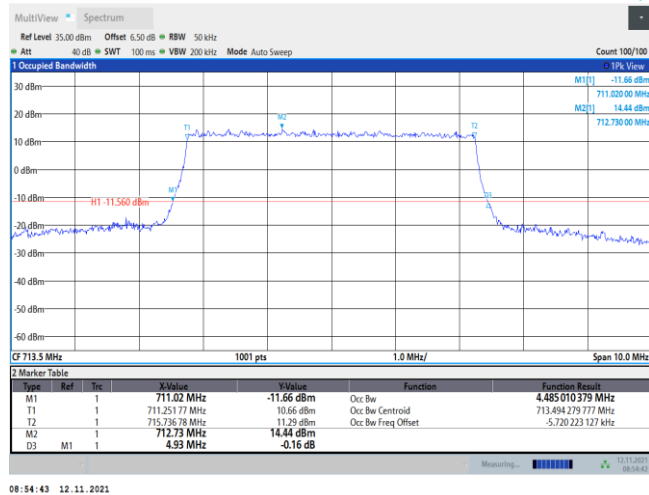


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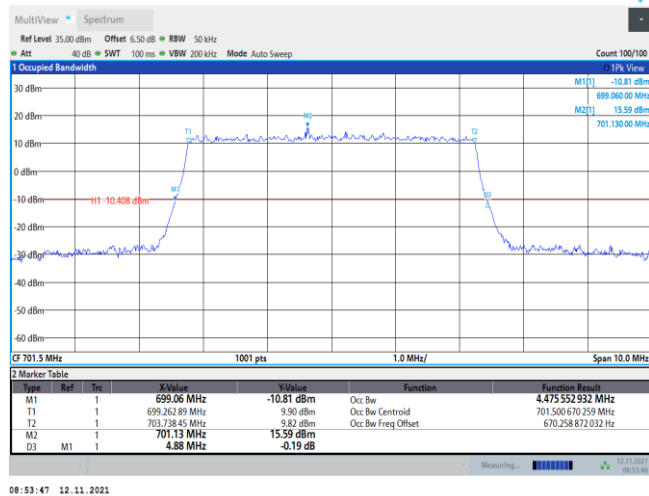
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Band12-5MHz-QPSK-23155-25RB#0



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

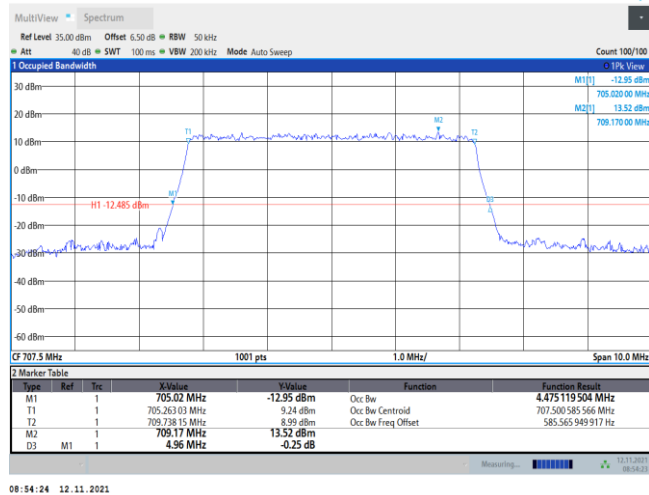


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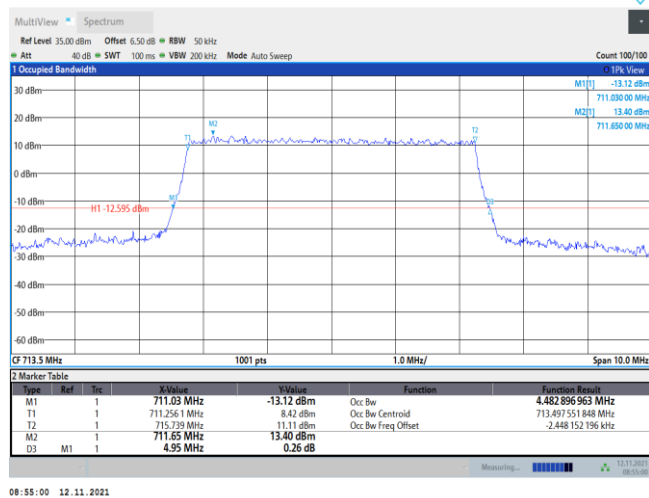
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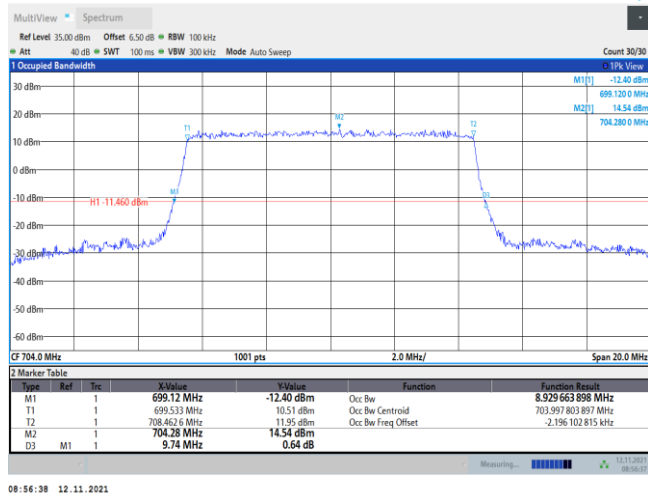
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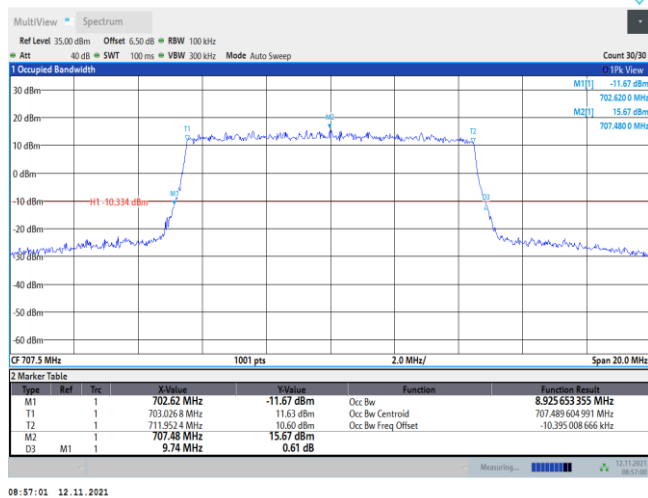
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Band12-10MHz-QPSK-23060-50RB#0



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

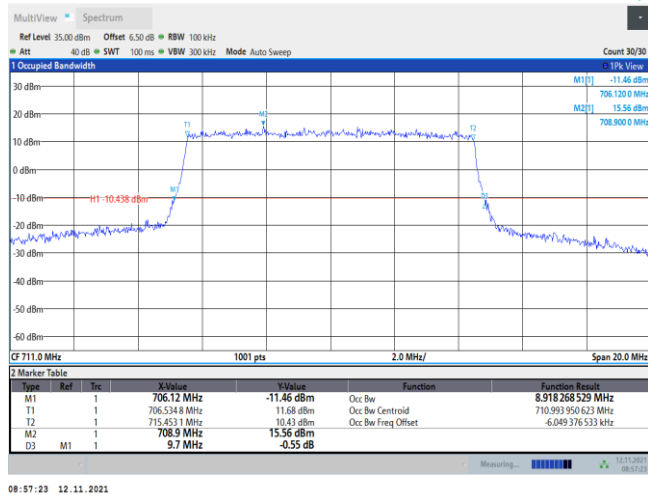


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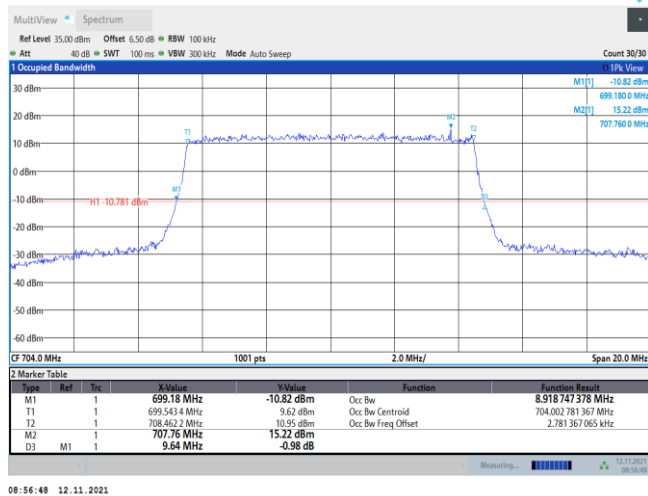
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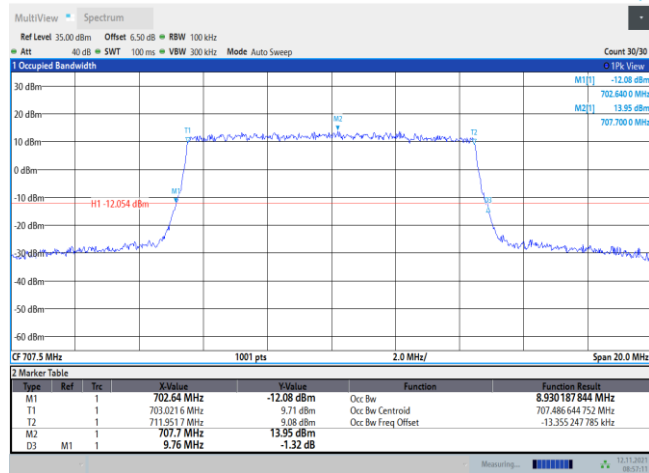
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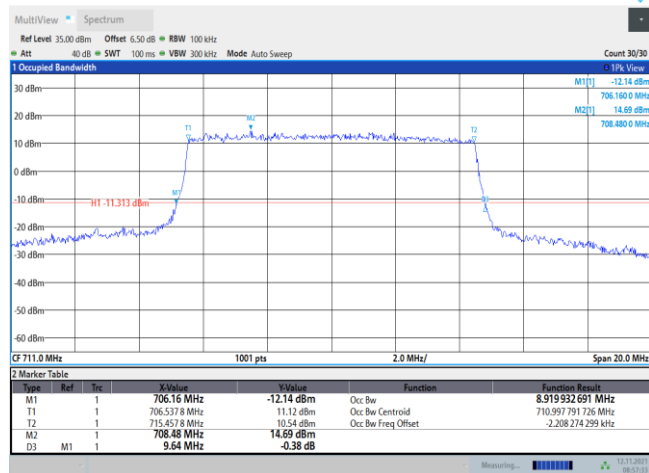
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Band12-10MHz-16QAM-23095-50RB#0



08:57:11 12.11.2021

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



08:57:34 12.11.2021



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## Band Edge

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	-32.55,-20.44	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-31.03,-26.31	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-18.93,-28.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-22.04,-24.07	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	-33.06,-22.00	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-31.51,-26.90	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-19.66,-28.83	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-23.97,-26.63	PASS
Band12	3MHz	QPSK	23025	1RB#0	-31.14,-19.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	-34.66,-27.01	PASS
Band12	3MHz	QPSK	23165	1RB#14	-17.31,-29.61	PASS
Band12	3MHz	QPSK	23165	15RB#0	-25.20,-28.80	PASS
Band12	3MHz	16QAM	23025	1RB#0	-32.71,-20.72	PASS
Band12	3MHz	16QAM	23025	15RB#0	-37.48,-29.45	PASS
Band12	3MHz	16QAM	23165	1RB#14	-19.17,-30.36	PASS
Band12	3MHz	16QAM	23165	15RB#0	-27.40,-31.56	PASS
Band12	5MHz	QPSK	23035	1RB#0	-32.70,-21.72	PASS
Band12	5MHz	QPSK	23035	25RB#0	-32.62,-27.83	PASS
Band12	5MHz	QPSK	23155	1RB#24	-20.90,-30.63	PASS
Band12	5MHz	QPSK	23155	25RB#0	-26.66,-29.29	PASS
Band12	5MHz	16QAM	23035	1RB#0	-34.58,-22.22	PASS
Band12	5MHz	16QAM	23035	25RB#0	-34.62,-29.51	PASS
Band12	5MHz	16QAM	23155	1RB#24	-22.70,-33.50	PASS
Band12	5MHz	16QAM	23155	25RB#0	-28.14,-31.99	PASS
Band12	10MHz	QPSK	23060	1RB#0	-31.58	PASS
Band12	10MHz	QPSK	23060	50RB#0	-30.24	PASS
Band12	10MHz	QPSK	23130	1RB#49	-30.51	PASS
Band12	10MHz	QPSK	23130	50RB#0	-28.82	PASS
Band12	10MHz	16QAM	23060	1RB#0	-31.89	PASS



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Report No.: SUZR/2021/9002502

Rev.: 01

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Band12	10MHz	16QAM	23060	50RB#0	-32.68	PASS
Band12	10MHz	16QAM	23130	1RB#49	-31.01	PASS
Band12	10MHz	16QAM	23130	50RB#0	-32.19	PASS



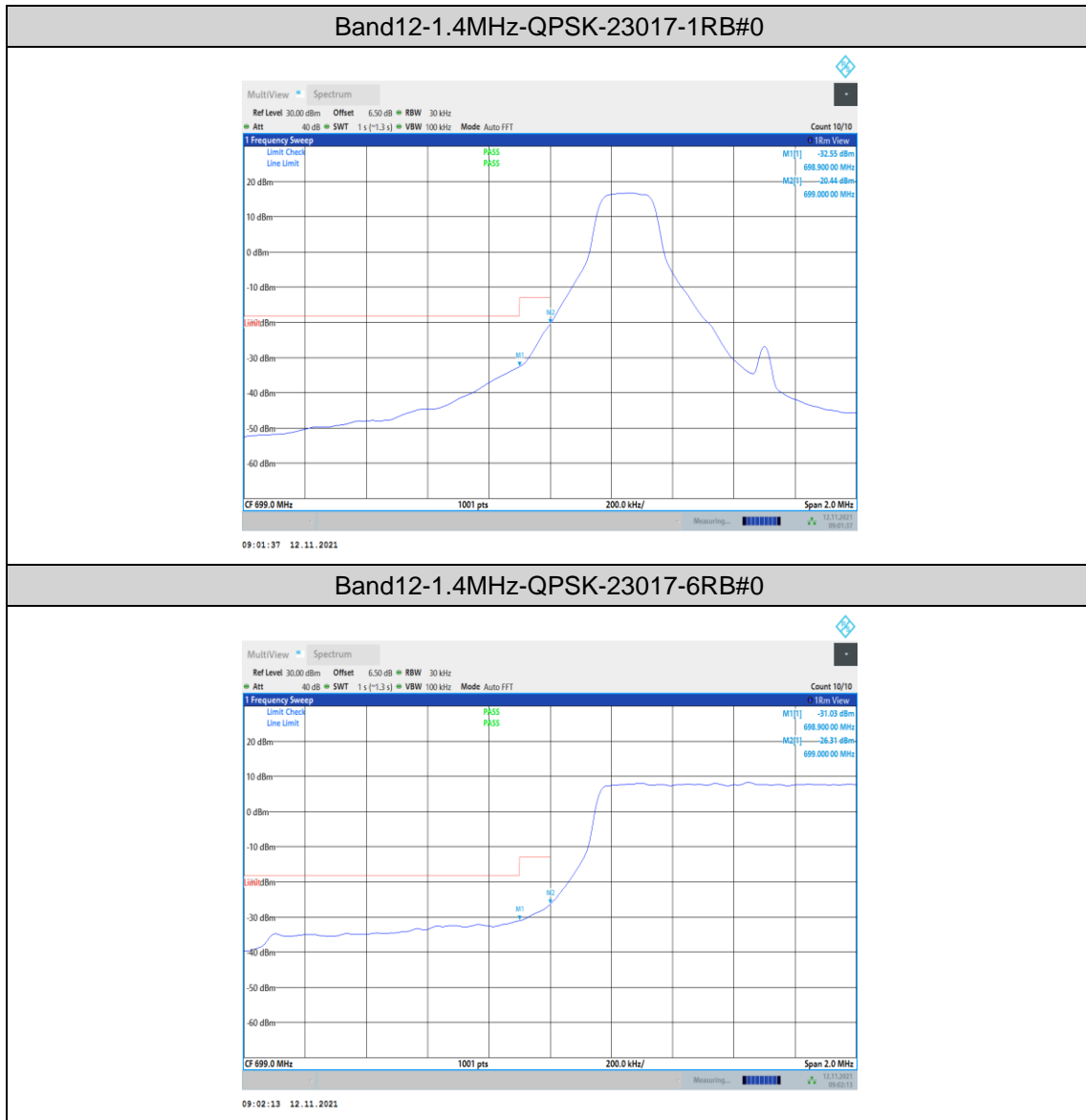
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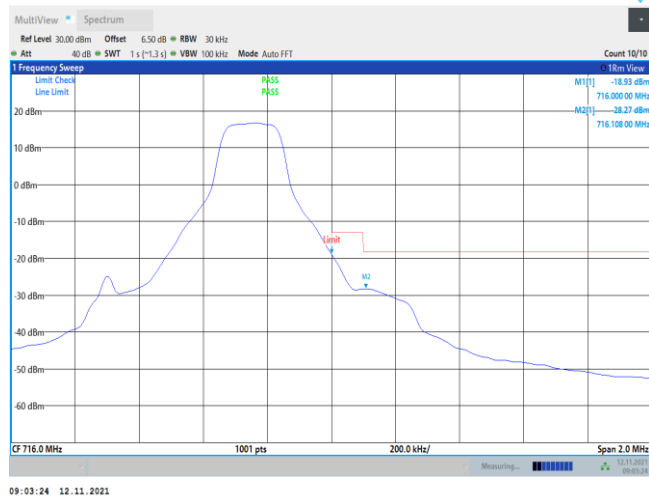
Test Graphs



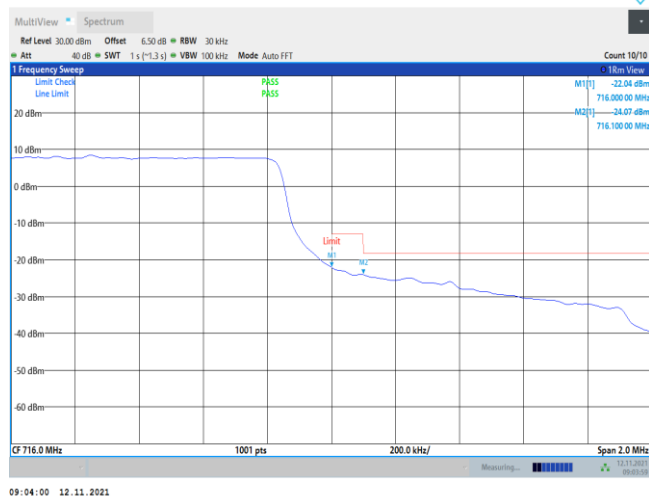
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Band12-1.4MHz-QPSK-23173-1RB#5



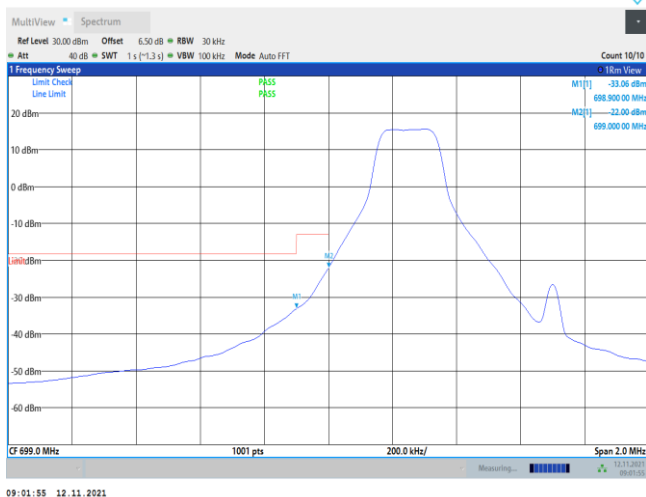
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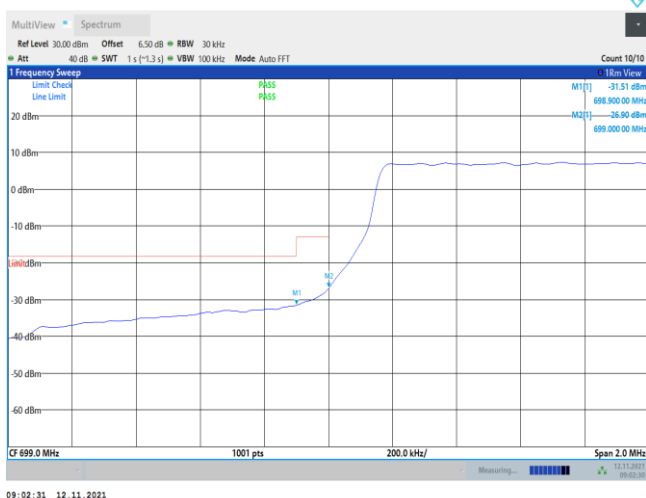
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Band12-1.4MHz-16QAM-23017-1RB#0



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

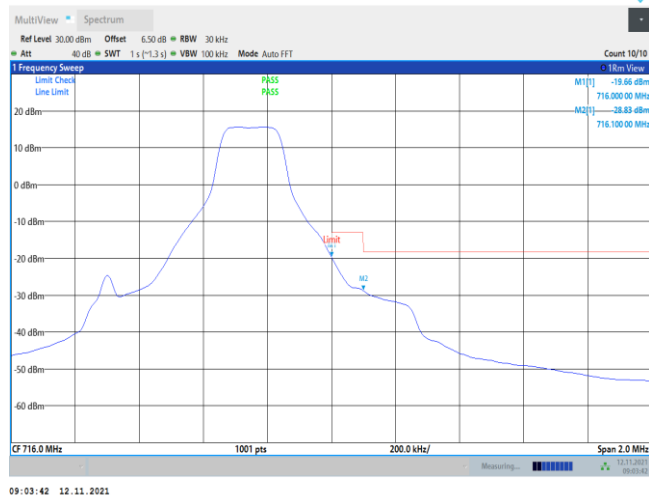


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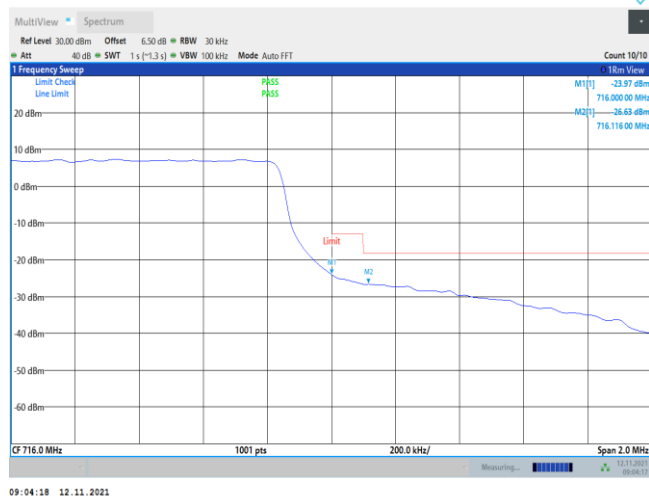
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Band12-1.4MHz-16QAM-23173-1RB#5



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

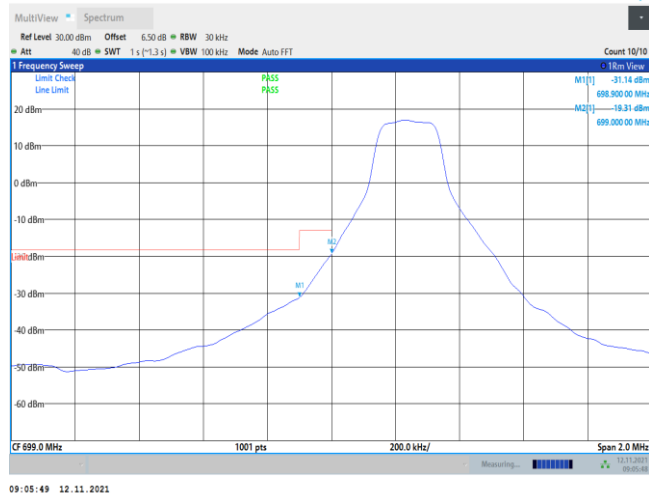


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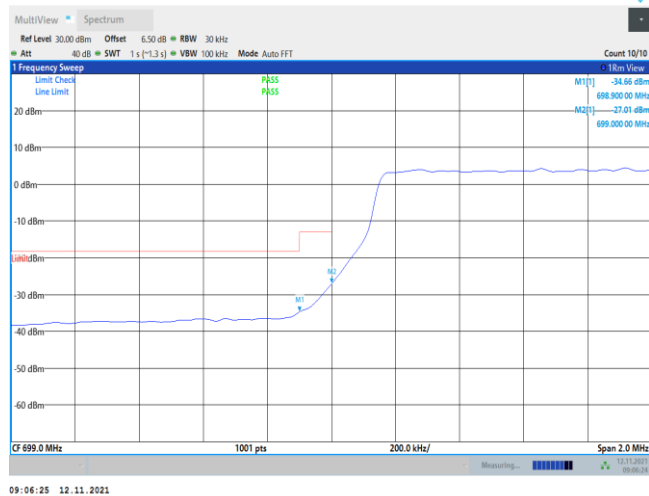
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Band12-3MHz-QPSK-23025-1RB#0



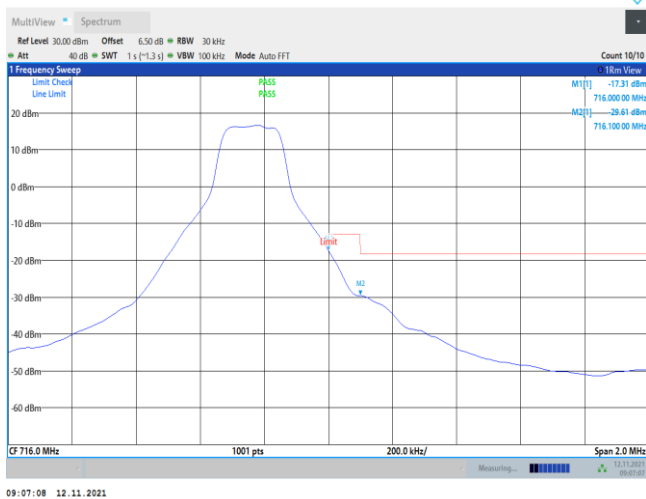
Band12-3MHz-QPSK-23025-15RB#0



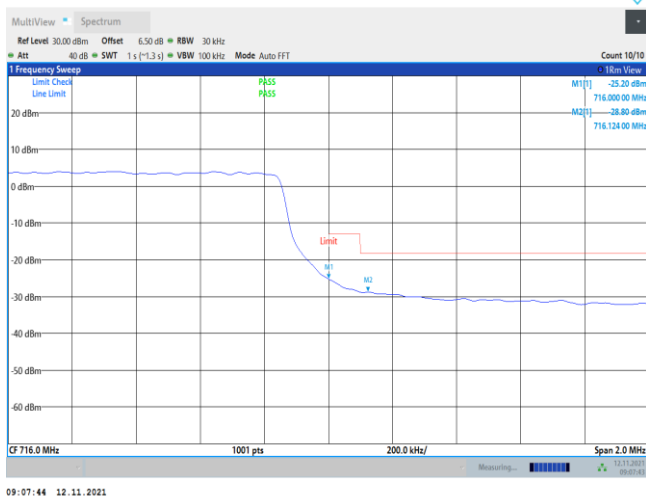
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Band12-3MHz-QPSK-23165-1RB#14

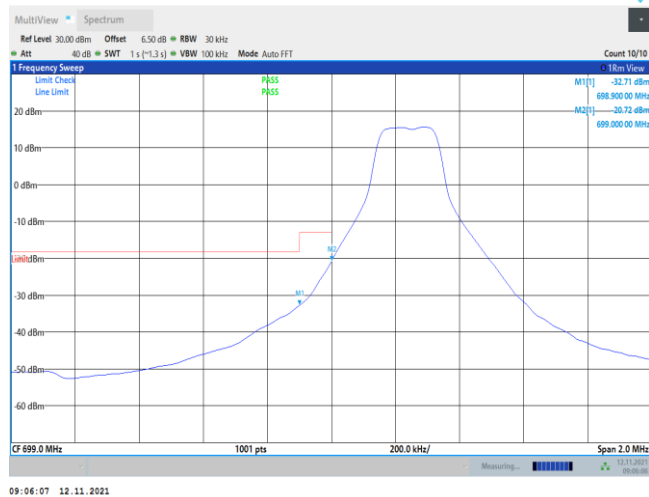


Band12-3MHz-QPSK-23165-15RB#0

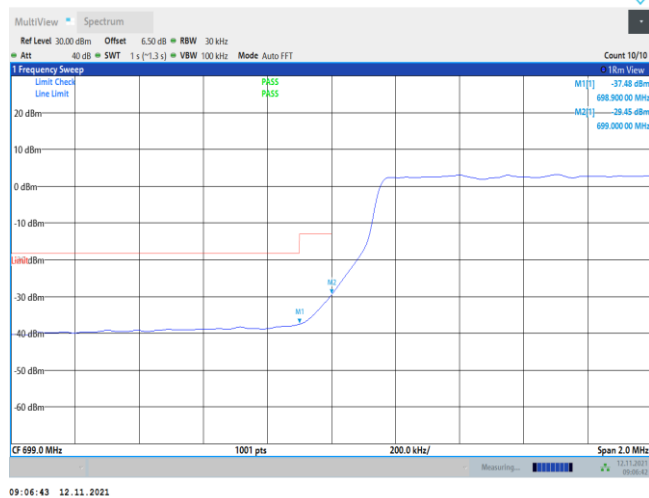


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Band12-3MHz-16QAM-23025-1RB#0



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



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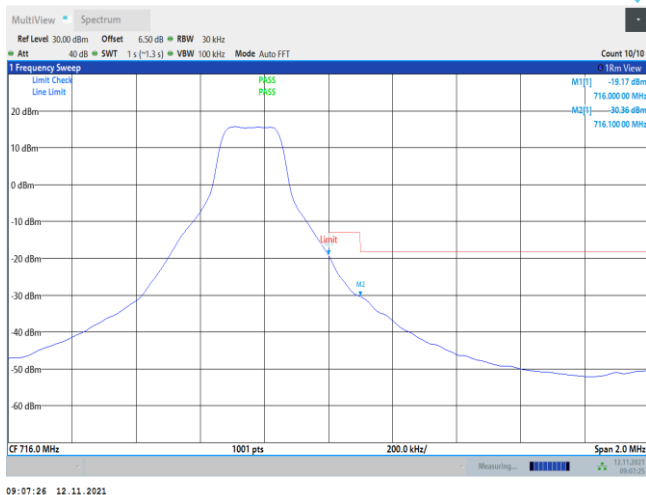
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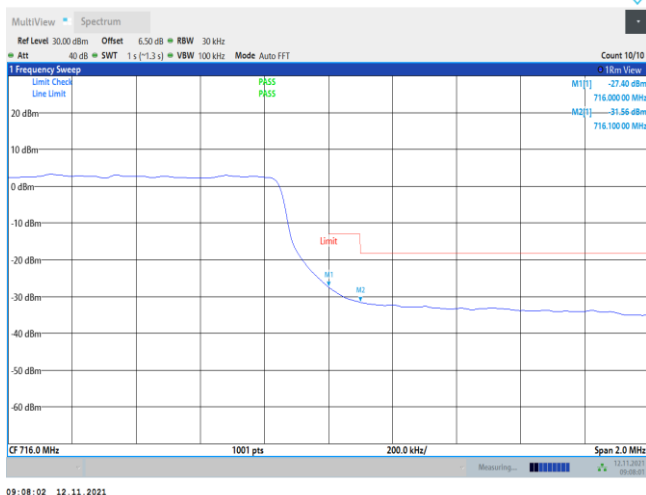
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Band12-3MHz-16QAM-23165-1RB#14

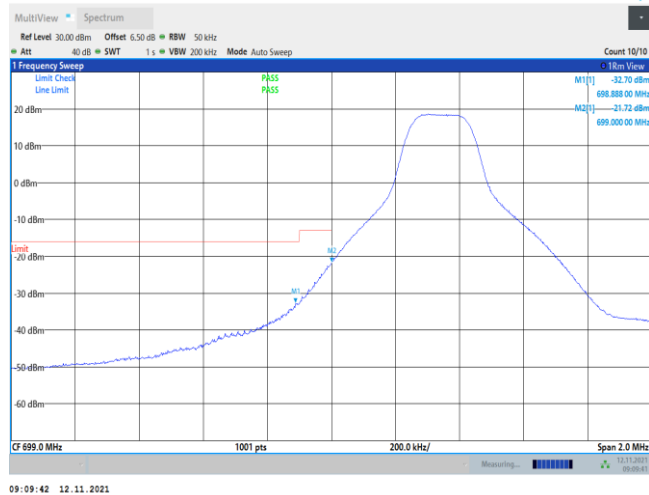


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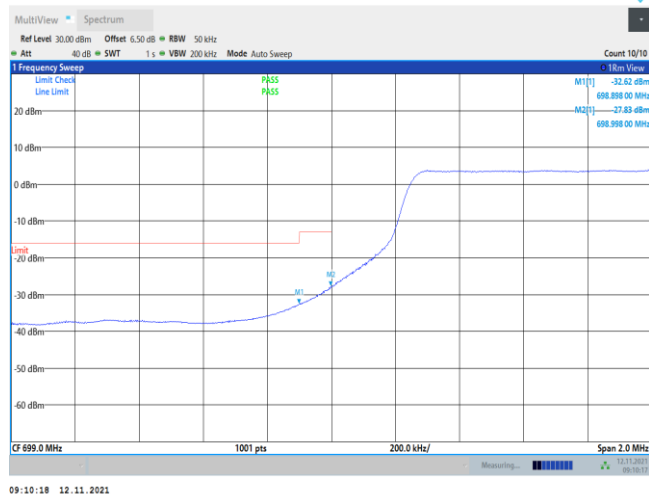


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Band12-5MHz-QPSK-23035-1RB#0



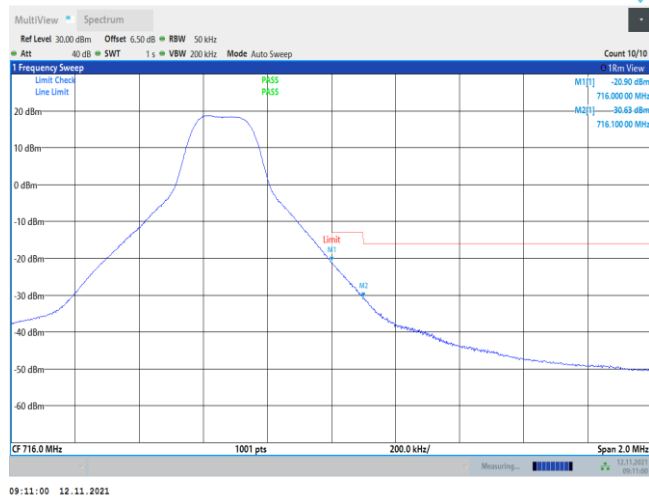
Band12-5MHz-QPSK-23035-25RB#0



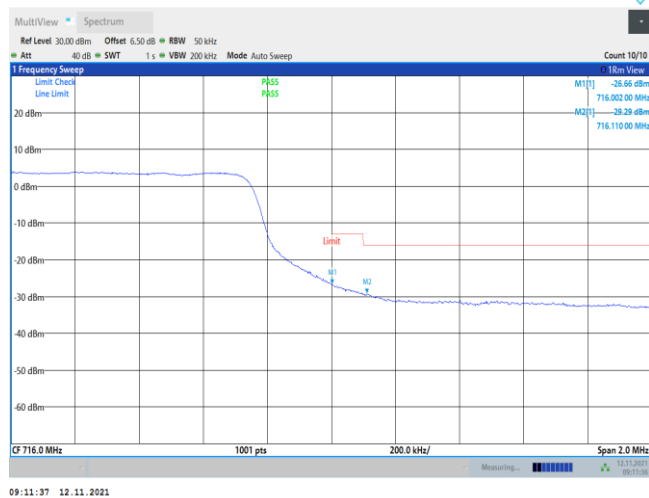
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Band12-5MHz-QPSK-23155-1RB#24



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

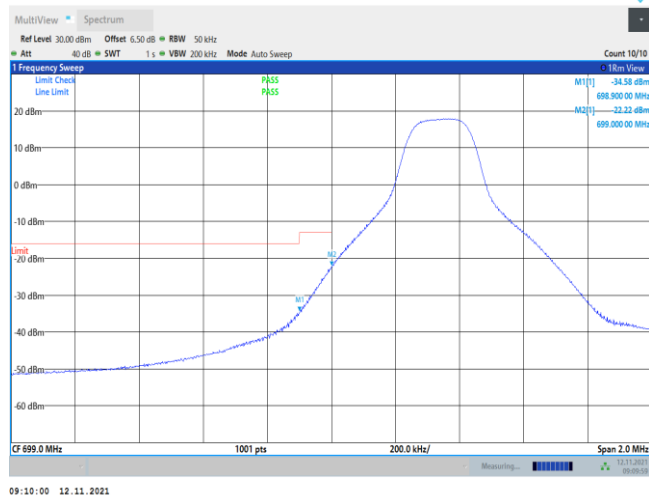


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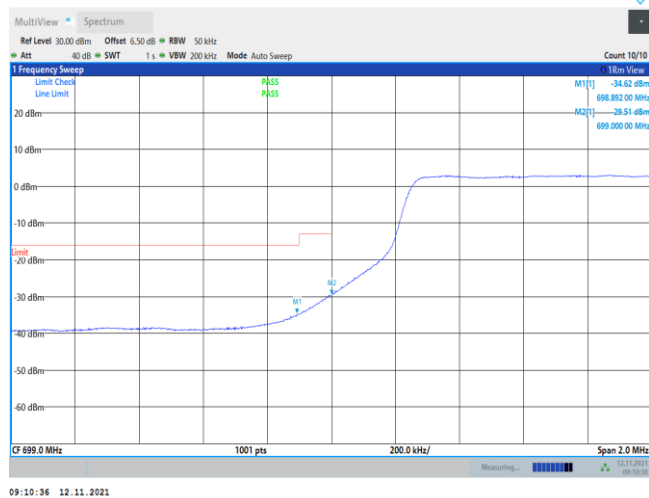
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Band12-5MHz-16QAM-23035-1RB#0



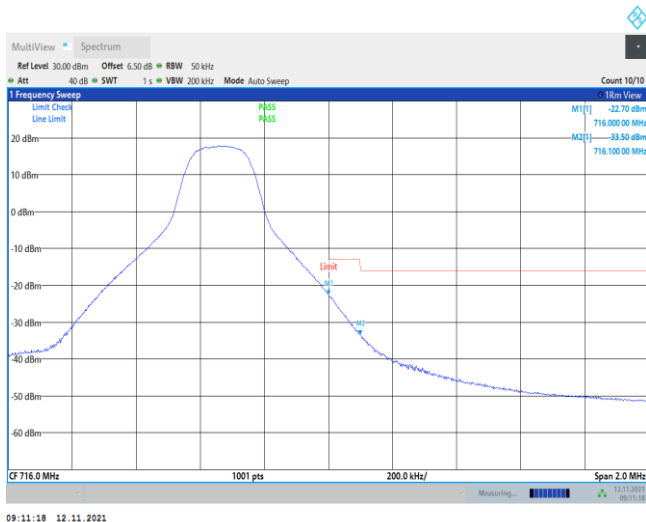
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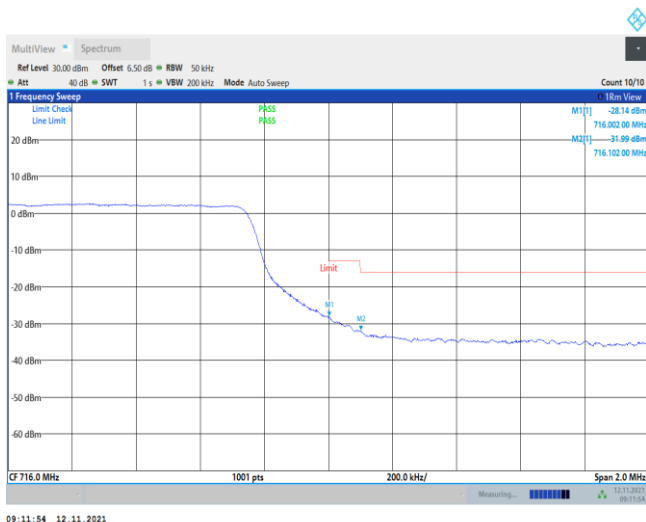
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Band12-5MHz-16QAM-23155-1RB#24



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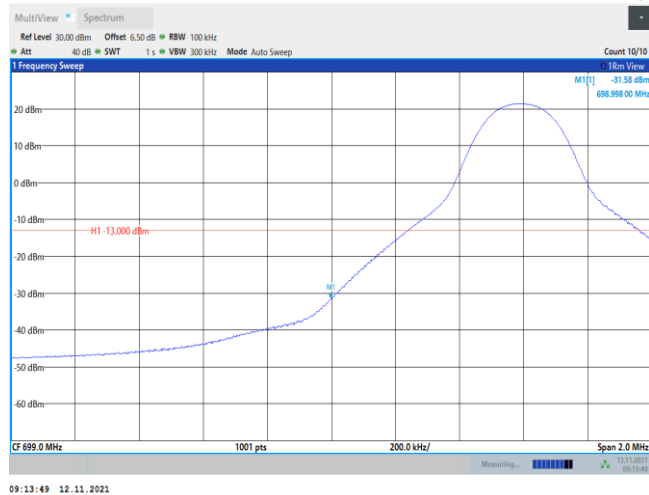
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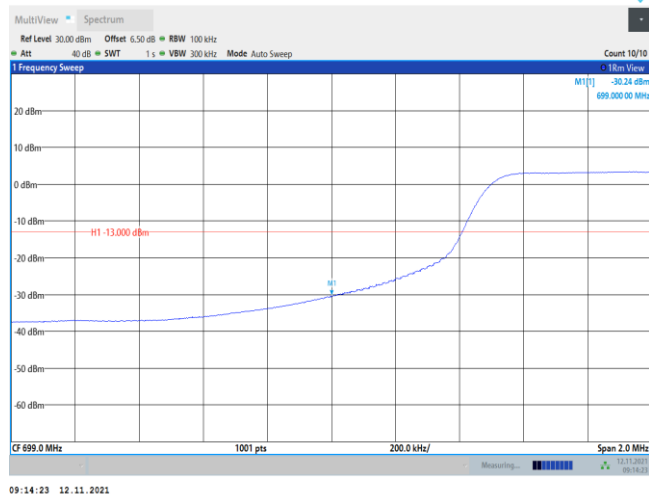
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Band12-10MHz-QPSK-23060-1RB#0



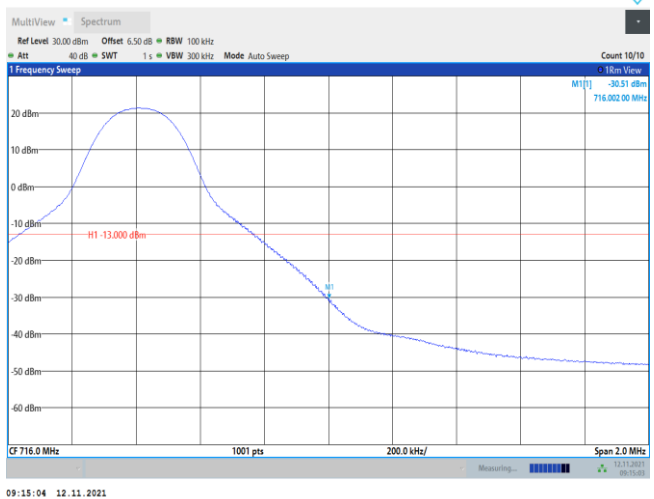
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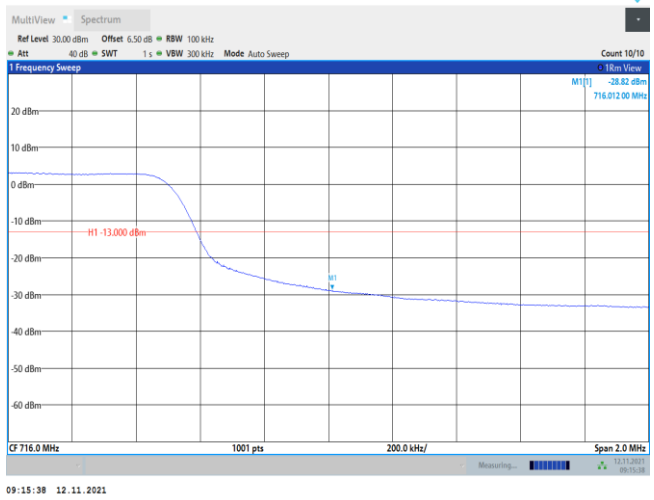
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Band12-10MHz-QPSK-23130-1RB#49

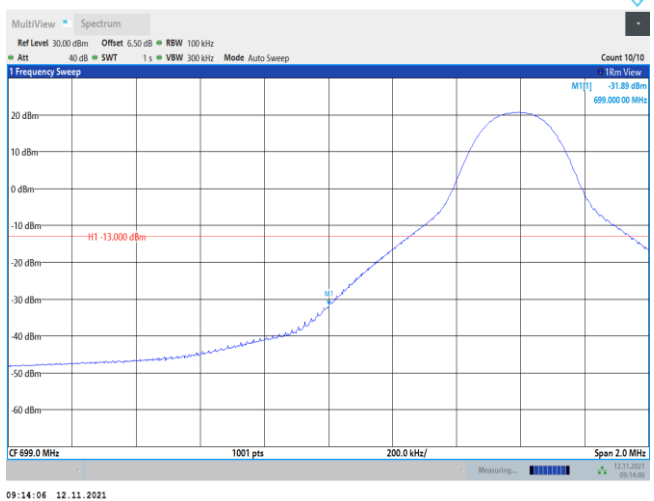


Band12-10MHz-QPSK-23130-50RB#0

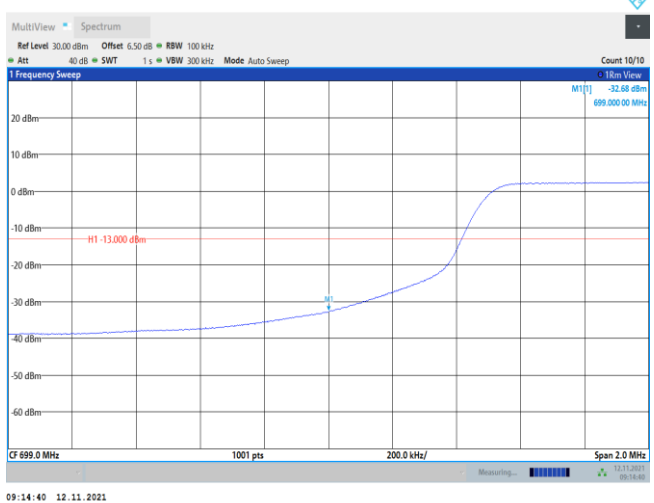


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Band12-10MHz-16QAM-23060-1RB#0

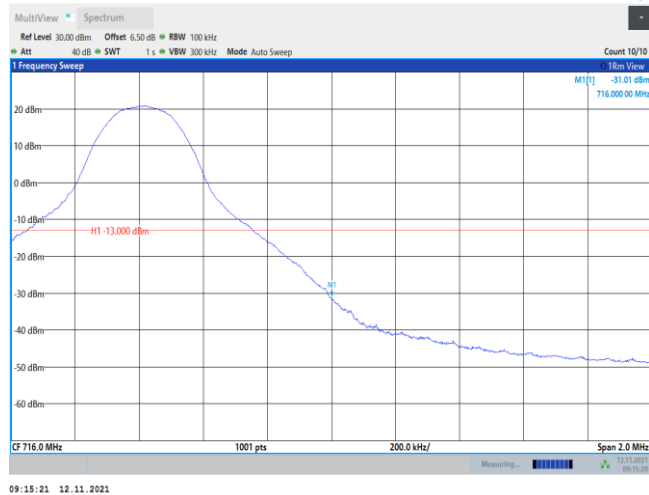


Band12-10MHz-16QAM-23060-50RB#0

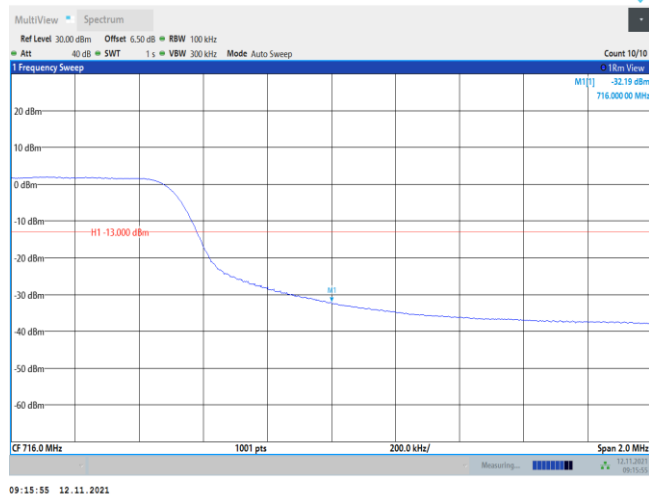


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Band12-10MHz-16QAM-23130-1RB#49



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



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## Conducted Spurious Emission

### Test Result

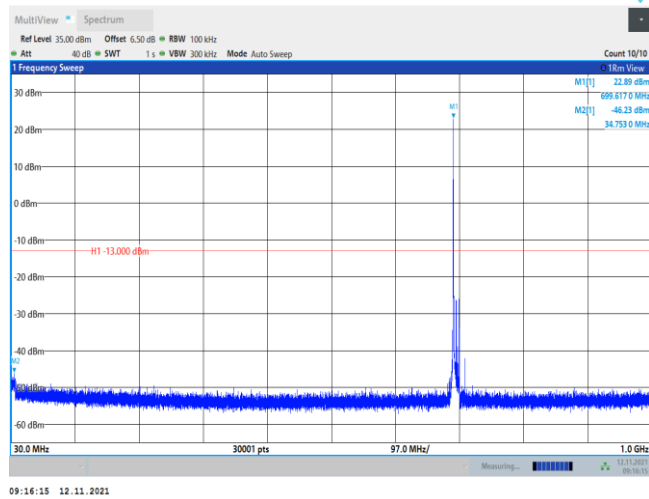
Band	Bandwidth h	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	10MHz	QPSK	23060	1RB#0	Range1:30~1000MHz	-46.23	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range2:1000~10000MHz	-36.68	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range1:30~1000MHz	-47.04	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range2:1000~10000MHz	-36.37	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range1:30~1000MHz	-46.26	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range2:1000~10000MHz	-36.54	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range1:30~1000MHz	-46.14	PASS
Band12	10MHz	16QAM	23060	1RB#0	Range2:1000~10000MHz	-36.87	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range1:30~1000MHz	-46.08	PASS
Band12	10MHz	16QAM	23095	1RB#0	Range2:1000~10000MHz	-36.7	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range1:30~1000MHz	-47.04	PASS
Band12	10MHz	16QAM	23130	1RB#0	Range2:1000~10000MHz	-36.57	PASS



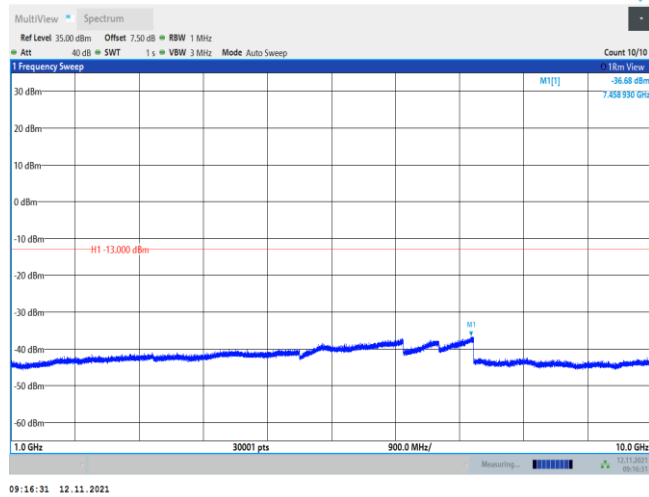
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Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:30~1000MHz



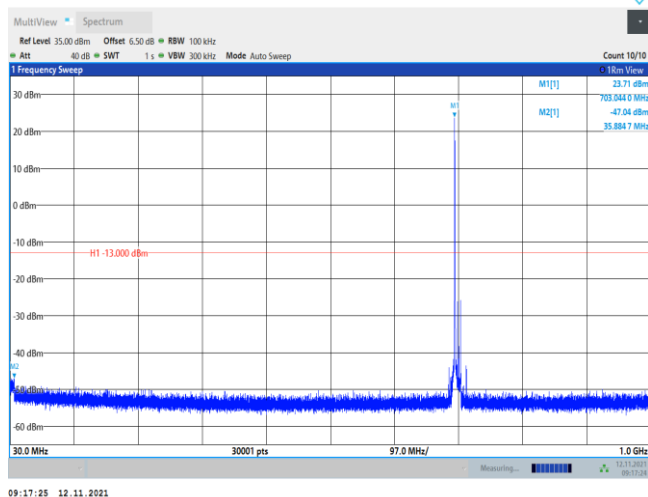
Band12-10MHz-QPSK-23060-1RB#0-Range2:1000~10000MHz



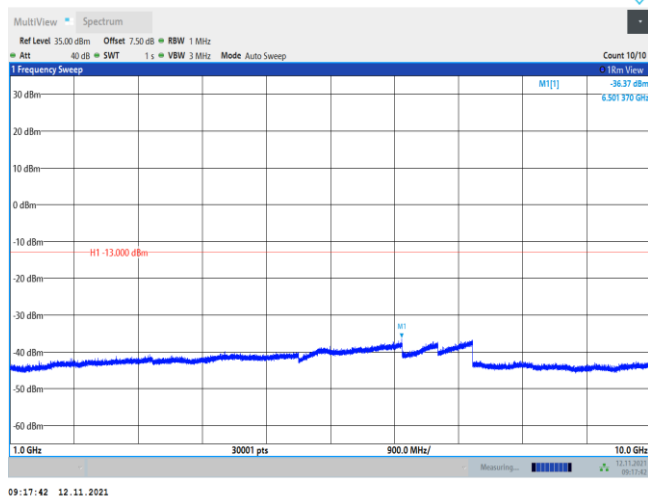
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Band12-10MHz-QPSK-23095-1RB#0-Range1:30~1000MHz



Band12-10MHz-QPSK-23095-1RB#0-Range2:1000~10000MHz

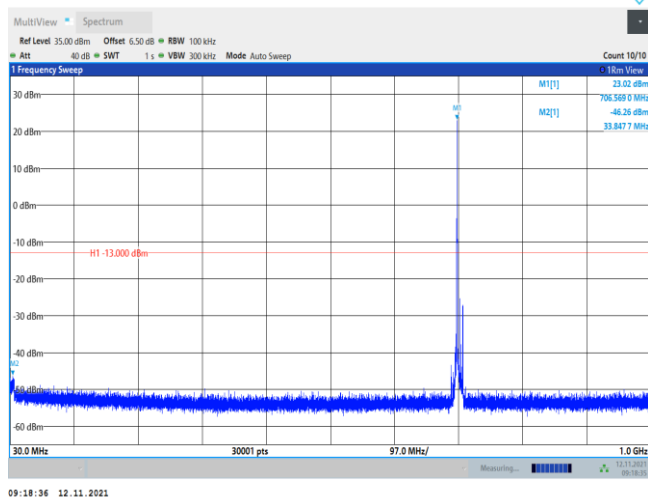


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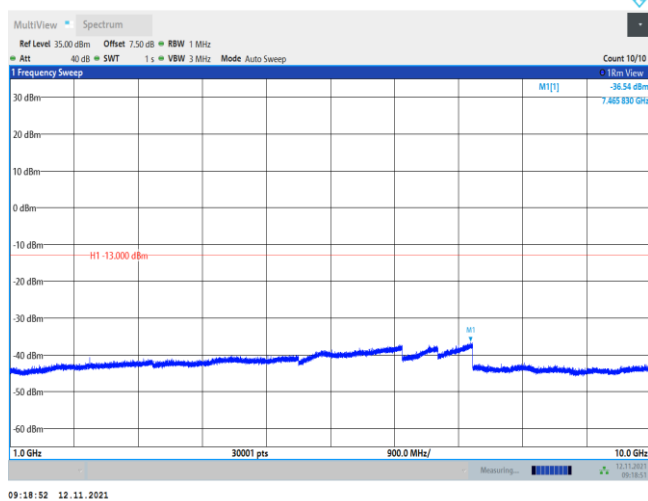
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Band12-10MHz-QPSK-23130-1RB#0-Range1:30~1000MHz



Band12-10MHz-QPSK-23130-1RB#0-Range2:1000~10000MHz



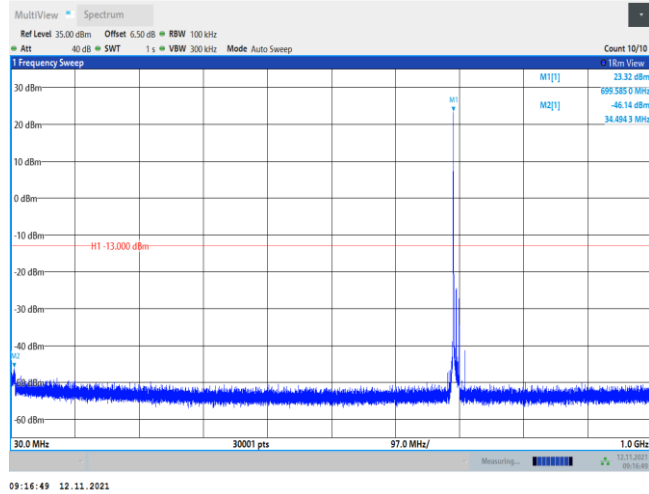
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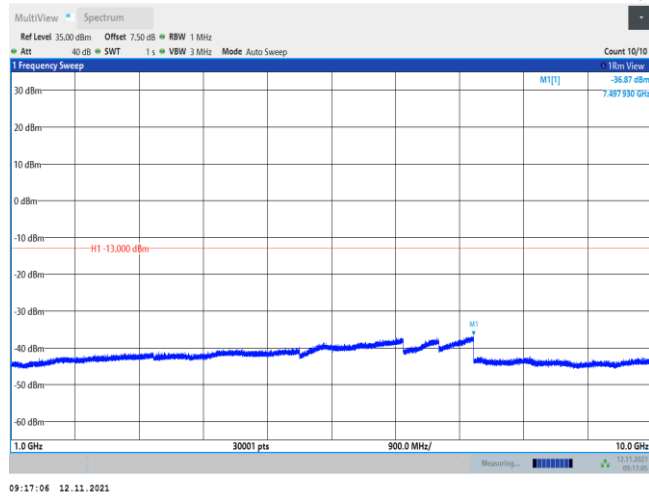
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Band12-10MHz-16QAM-23060-1RB#0-Range1:30~1000MHz



Band12-10MHz-16QAM-23060-1RB#0-Range2:1000~10000MHz

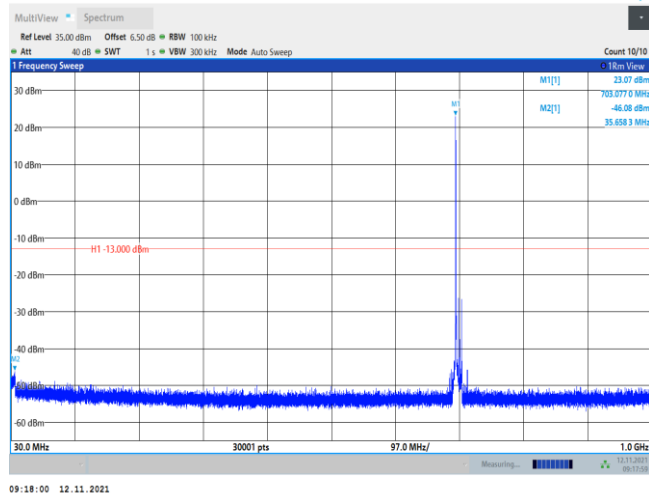


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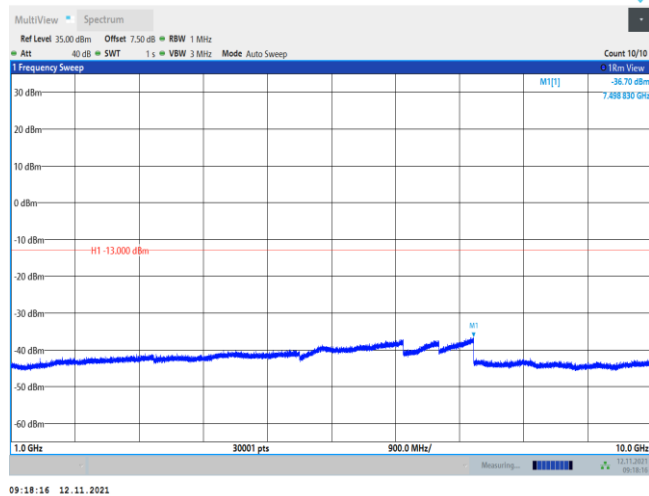
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Band12-10MHz-16QAM-23095-1RB#0-Range1:30~1000MHz



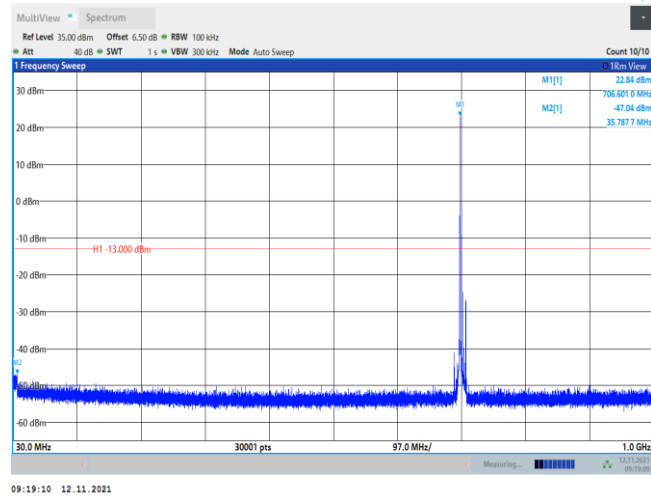
Band12-10MHz-16QAM-23095-1RB#0-Range2:1000~10000MHz



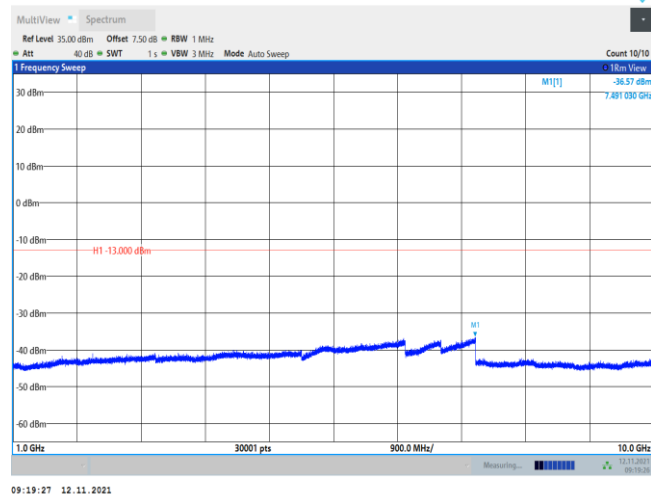
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Band12-10MHz-16QAM-23130-1RB#0-Range2:1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE\_Band 12

Test Channel = Low Channel

Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1398.0000	-56.46	-13.00	43.46	125	89	Horizontal
2	2098.0000	-44.82	-13.00	31.82	335	328	Horizontal
3	2798.3600	-60.42	-13.00	47.42	236	104	Horizontal
4	3497.9500	-46.35	-13.00	33.35	259	290	Horizontal
5	4197.5400	-48.35	-13.00	35.35	166	295	Horizontal
6	7768.0000	-48.62	-13.00	35.62	336	123	Horizontal

Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1398.0000	-55.72	-13.00	42.72	158	65	Vertical
2	2098.0000	-52.20	-13.00	39.20	223	208	Vertical
3	2798.3600	-60.32	-13.00	47.32	331	89	Vertical
4	3497.9500	-47.03	-13.00	34.03	209	243	Vertical
5	4197.5400	-46.95	-13.00	33.95	371	113	Vertical
6	7048.0000	-50.98	-13.00	37.98	292	56	Vertical



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**Test Band = LTE\_Band 12**

**Test Channel = Mid Channel**

Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.0000	-59.66	-13.00	46.66	236	9	Horizontal
2	2108.0000	-46.17	-13.00	33.17	225	333	Horizontal
3	2812.3600	-60.32	-13.00	47.32	158	142	Horizontal
4	3516.0000	-44.13	-13.00	31.13	233	295	Horizontal
5	4218.0000	-44.82	-13.00	31.82	269	295	Horizontal
6	7834.0000	-48.89	-13.00	35.89	288	328	Horizontal

Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.0000	-57.48	-13.00	44.48	236	74	Vertical
2	2108.0000	-51.90	-13.00	38.90	158	33	Vertical
3	2812.3600	-60.24	-13.00	47.24	229	312	Vertical
4	3515.4500	-42.36	-13.00	29.36	144	229	Vertical
5	4218.0000	-43.80	-13.00	30.80	336	42	Vertical
6	7186.0000	-50.83	-13.00	37.83	258	18	Vertical



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**Test Band = LTE\_Band 12**

**Test Channel = High Channel**

Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1412.0000	-53.75	-13.00	40.75	233	108	Horizontal
2	2119.7700	-40.88	-13.00	27.88	268	244	Horizontal
3	2826.3600	-60.15	-13.00	47.15	334	80	Horizontal
4	3532.0000	-48.04	-13.00	35.04	254	285	Horizontal
5	4239.5400	-49.75	-13.00	36.75	169	285	Horizontal
6	7576.0000	-49.39	-13.00	36.39	220	328	Horizontal

Data List							
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1412.0000	-52.22	-13.00	39.22	158	64	Vertical
2	2119.7700	-47.44	-13.00	34.44	162	194	Vertical
3	2826.3600	-59.53	-13.00	46.53	208	294	Vertical
4	3532.0000	-45.42	-13.00	32.42	311	228	Vertical
5	4239.5400	-47.43	-13.00	34.43	277	45	Vertical
6	7496.0000	-50.09	-13.00	37.09	269	21	Vertical



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band12	10MHz	QPSK	23060	50RB#0	VL	NT	-2.56	-0.003636	Within authorized bands of operation/frequency block.	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-1.72	-0.002443		PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-1.50	-0.002131		PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	1.70	0.002403		PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	1.44	0.002035		PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-2.23	-0.003152		PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-2.76	-0.003882		PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-3.82	-0.005373		PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-3.09	-0.004346		PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-0.98	-0.001392		PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	0.74	0.001051		PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-3.37	-0.004787		PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-2.68	-0.003788		PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-2.19	-0.003095		PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-2.72	-0.003845		PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	2.26	0.003179		PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-2.55	-0.003586	PASS	
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-1.77	-0.002489	PASS	



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Temperature										
Band	Bandwidth h	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	1.23	0.001747	Within authorized bands of operation/ frequency block.	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-1.48	-0.002102		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-1.98	-0.002813		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	1.08	0.001534		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	1.85	0.002628		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	-1.39	-0.001974		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-1.33	-0.001889		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-1.76	-0.002500		PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	2.26	0.003210		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-2.42	-0.003420		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-1.13	-0.001597		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-2.81	-0.003972		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-2.20	-0.003110		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-3.21	-0.004537		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-1.00	-0.001413		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-1.71	-0.002417		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-1.22	-0.001724		PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-2.26	-0.003194		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-1.39	-0.001955		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-3.50	-0.004923		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-2.18	-0.003066		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.64	-0.003713		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-2.81	-0.003952		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-2.56	-0.003601		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-1.61	-0.002264		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	1.08	0.001519		PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-1.75	-0.002461		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-3.71	-0.005270		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	1.11	0.001577		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-1.20	-0.001705		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-1.07	-0.001520		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	2.53	0.003594		PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	20	0.83	0.001179	PASS	



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Band12	10MHz	16QAM	23060	50RB#0	NV	30	-2.19	-0.003111	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	1.50	0.002131	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-2.06	-0.002926	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	-2.26	-0.003194	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-2.14	-0.003025	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	2.49	0.003519	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-2.37	-0.003350	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-1.84	-0.002601	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	-1.56	-0.002205	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-2.61	-0.003689	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-4.02	-0.005682	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-1.23	-0.001739	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-2.68	-0.003769	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-2.95	-0.004149	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-1.61	-0.002264	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	1.06	0.001491	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	1.27	0.001786	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-1.79	-0.002518	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-2.59	-0.003643	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-2.86	-0.004023	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-1.67	-0.002349	PASS

The End



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