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# Appendix



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power (dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.08	18.23	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.25	18.40	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.14	18.29	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.31	18.46	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.53	18.68	34.77	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.23	18.38	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.32	17.47	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.41	18.56	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.37	18.52	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.16	18.31	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.45	18.60	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.51	18.66	34.77	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.36	18.51	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.37	17.52	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.53	18.68	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.47	18.62	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.17	18.32	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.44	18.59	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.39	18.54	34.77	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.34	18.49	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.47	17.62	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.12	17.27	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.33	17.48	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.07	17.22	34.77	PASS



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Band12	1.4MHz	16QAM	23017	3RB#0	22.61	17.76	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.62	17.77	34.77	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	22.66	17.81	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.21	16.36	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.11	17.26	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.28	17.43	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.05	17.20	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.32	17.47	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.71	17.86	34.77	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.39	17.54	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.49	16.64	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.69	17.84	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.65	17.80	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.58	17.73	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.30	17.45	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.31	17.46	34.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.33	17.48	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.23	16.38	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.19	18.34	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.26	18.41	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.07	18.22	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.39	17.54	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.34	17.49	34.77	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.30	17.45	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.33	17.48	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.42	18.57	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.20	18.35	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.37	18.52	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.42	17.57	34.77	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.45	17.60	34.77	PASS



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Band12	3MHz	QPSK	23095	8RB#7	22.39	17.54	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.36	17.51	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.22	18.37	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.19	18.34	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.26	18.41	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.40	17.55	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.27	17.42	34.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.31	17.46	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.38	17.53	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.74	16.89	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.00	17.15	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.34	17.49	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.44	16.59	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.29	16.44	34.77	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.37	16.52	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.13	16.28	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.93	17.08	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.11	17.26	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.81	16.96	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.48	16.63	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.44	16.59	34.77	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.46	16.61	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.28	16.43	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.36	17.51	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.34	17.49	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.52	17.67	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.41	16.56	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.33	16.48	34.77	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.39	16.54	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.34	16.49	34.77	PASS



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Band12	5MHz	QPSK	23035	1RB#0	22.98	18.13	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.48	18.63	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.37	18.52	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.32	17.47	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.35	17.50	34.77	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.26	17.41	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.32	17.47	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.21	18.36	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.38	18.53	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.27	18.42	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.34	17.49	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.44	17.59	34.77	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.35	17.50	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.38	17.53	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.33	18.48	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.28	18.43	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.09	18.24	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.28	17.43	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.23	17.38	34.77	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.14	17.29	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.30	17.45	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.30	17.45	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.09	17.24	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.95	17.10	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.15	16.30	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.25	16.40	34.77	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.06	16.21	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.34	16.49	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.05	17.20	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.10	17.25	34.77	PASS



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Band12	5MHz	16QAM	23095	12RB#0	21.50	16.65	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.38	16.53	34.77	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.28	16.43	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.40	16.55	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.85	17.00	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.91	17.06	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.59	16.74	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.33	16.48	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.28	16.43	34.77	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.19	16.34	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.20	16.35	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.16	18.31	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.50	18.65	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.22	18.37	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.28	17.43	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.37	17.52	34.77	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.27	17.42	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.37	17.52	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.23	18.38	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.47	18.62	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.24	18.39	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.35	17.50	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.41	17.56	34.77	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.36	17.51	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.40	17.55	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.28	18.43	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.36	18.51	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.03	18.18	34.77	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.44	17.59	34.77	PASS



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Band12	10MHz	QPSK	23130	25RB#25	22.32	17.47	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.44	17.59	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.56	16.71	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.06	17.21	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.04	17.19	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.40	16.55	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.39	16.54	34.77	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.29	16.44	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.38	16.53	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.87	17.02	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.28	17.43	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.52	16.67	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.39	16.54	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.34	16.49	34.77	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.46	16.61	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.32	16.47	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.82	16.97	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.35	17.50	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.71	16.86	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.47	16.62	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.44	16.59	34.77	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.33	16.48	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.35	16.50	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	4.96	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.04	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	4.82	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.72	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	5.74	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.72	13	PASS



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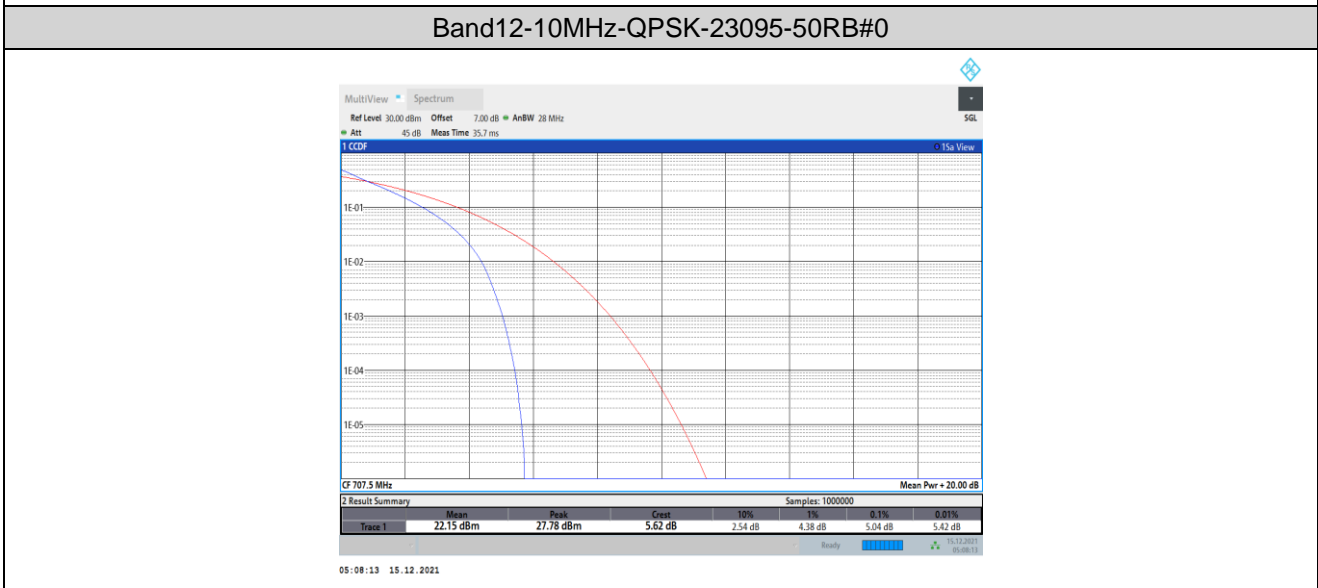
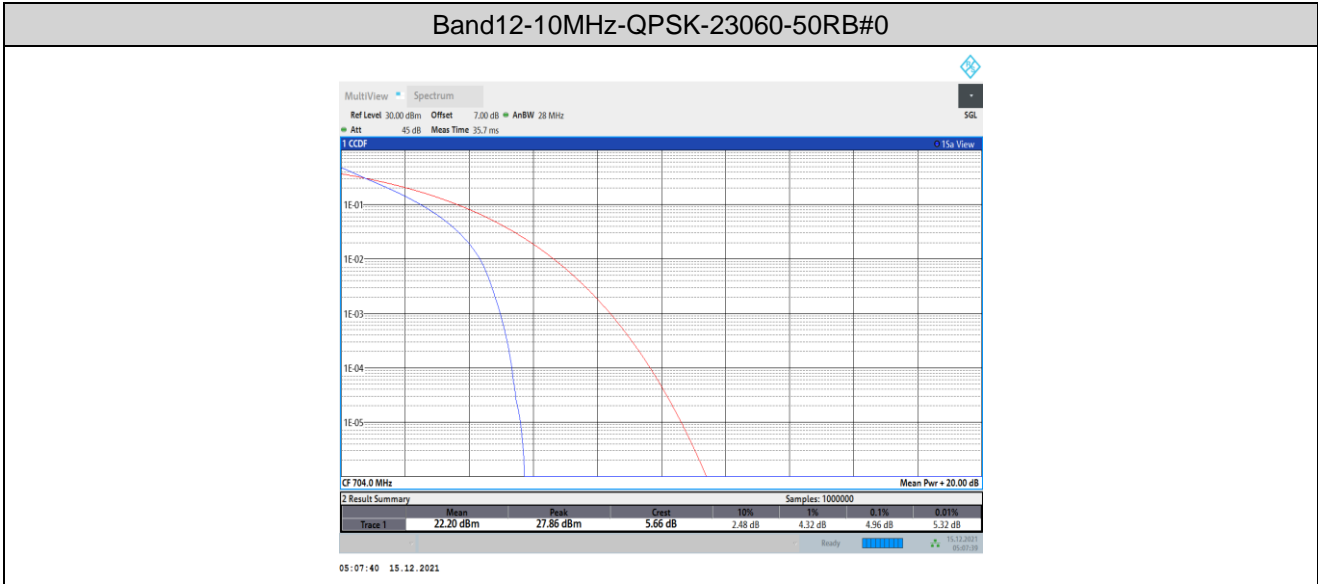
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Test Graphs

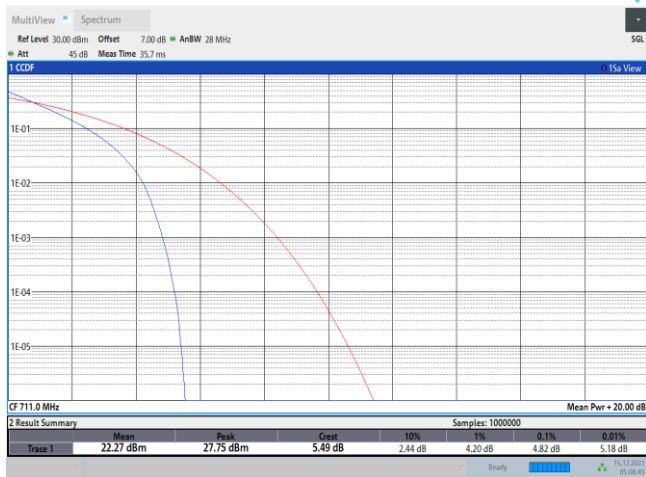


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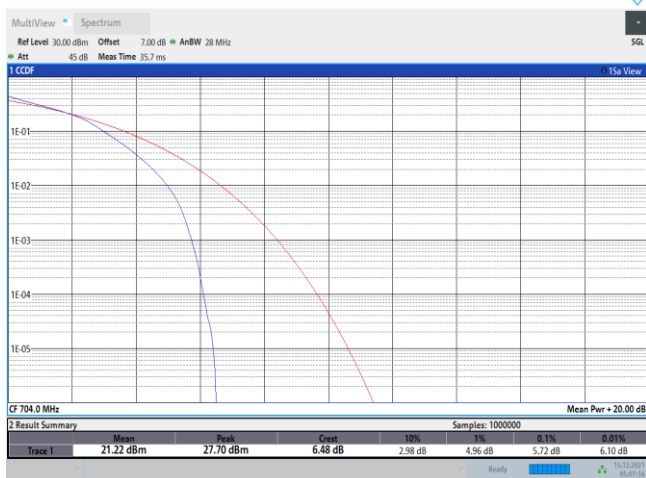
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Band12-10MHz-QPSK-23130-50RB#0



05:08:46 15.12.2021

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



05:07:56 15.12.2021

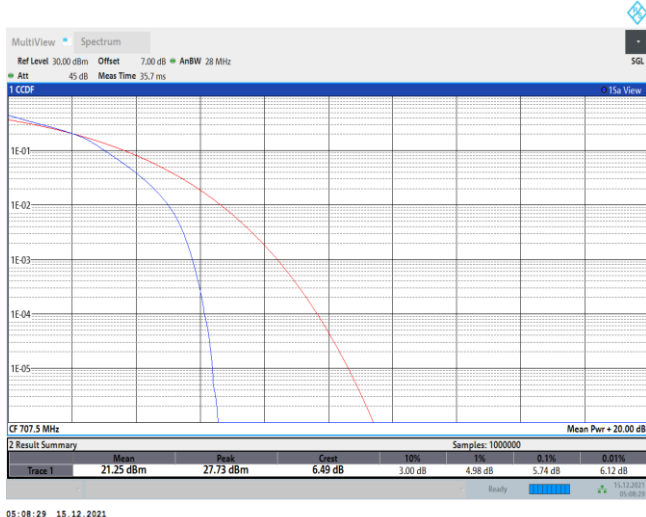


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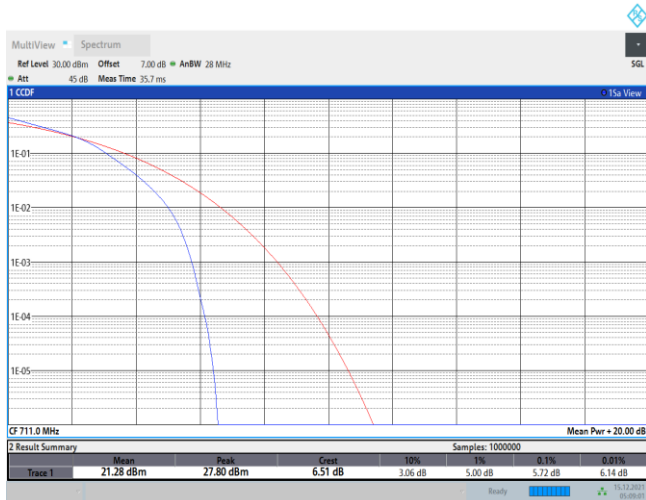
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Band12-10MHz-16QAM-23095-50RB#0



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



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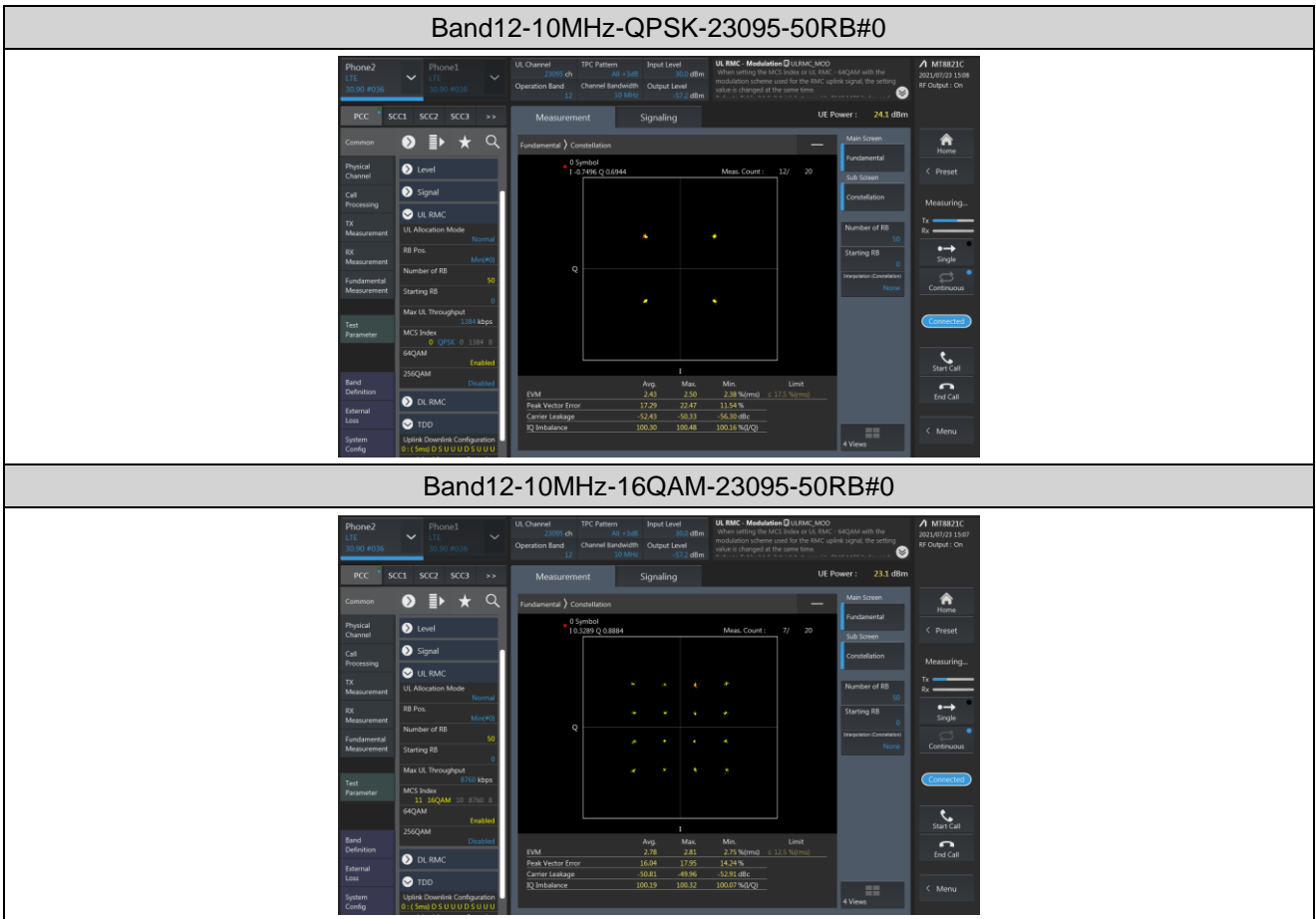
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## Modulation Characteristics

### 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

### 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	1.087	1.287	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.087	1.278	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.287	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.095	1.293	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.293	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.096	1.296	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.693	2.940	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.693	2.970	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.692	2.970	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.686	2.982	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.687	2.982	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.686	2.976	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.467	4.750	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.469	4.900	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.467	4.900	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.461	4.960	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.467	4.960	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.467	4.950	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.96	9.440	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.927	9.640	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.915	9.720	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.904	9.660	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.905	9.660	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.897	9.680	PASS



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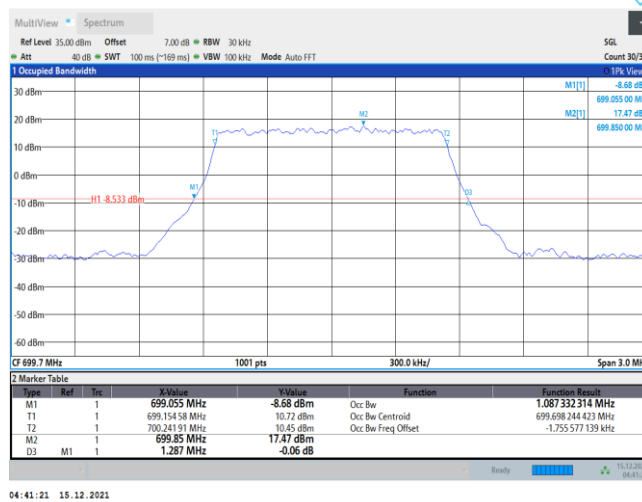
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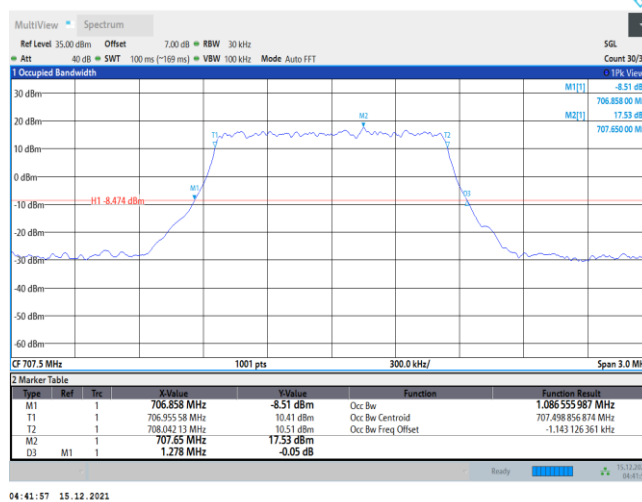
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Band12-1.4MHz-QPSK-23017-6RB#0



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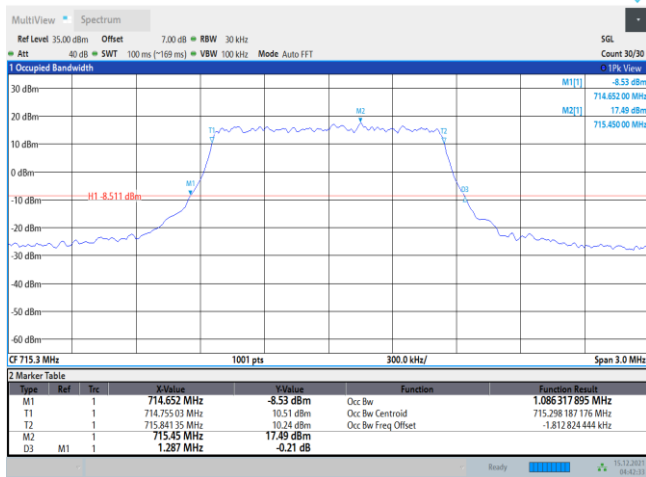


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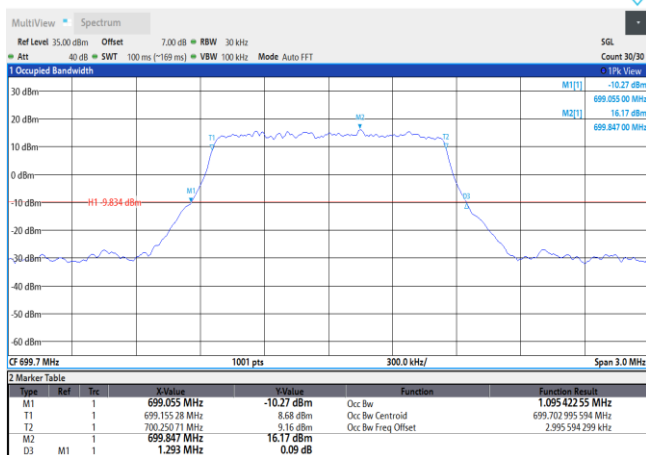
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Band12-1.4MHz-QPSK-23173-6RB#0



04:42:34 15.12.2021

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



04:41:39 15.12.2021

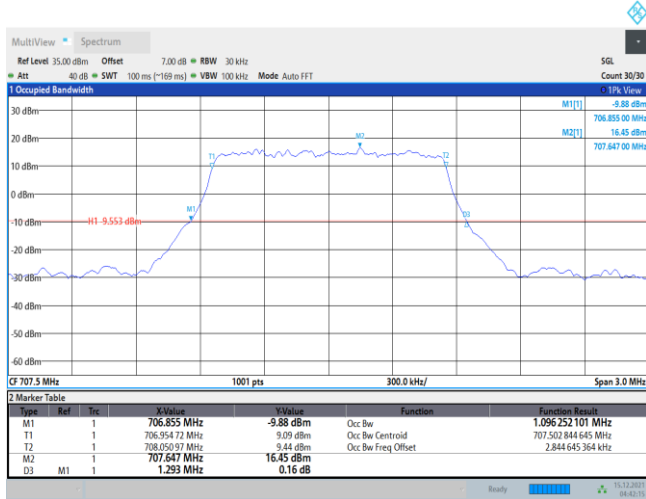


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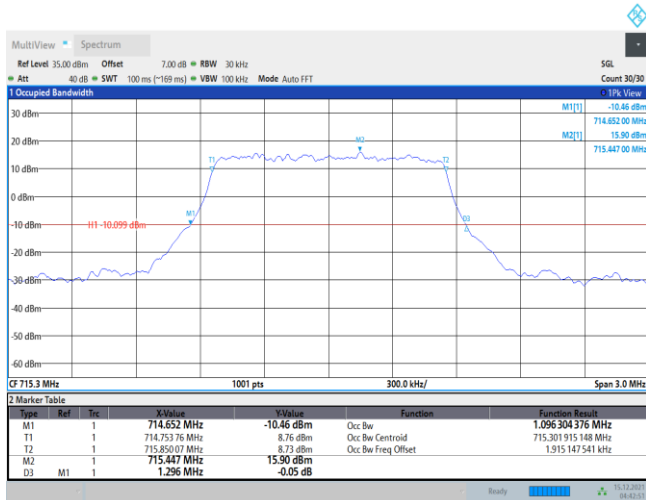
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Band12-1.4MHz-16QAM-23095-6RB#0



04:42:15 15.12.2021

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



04:42:52 15.12.2021



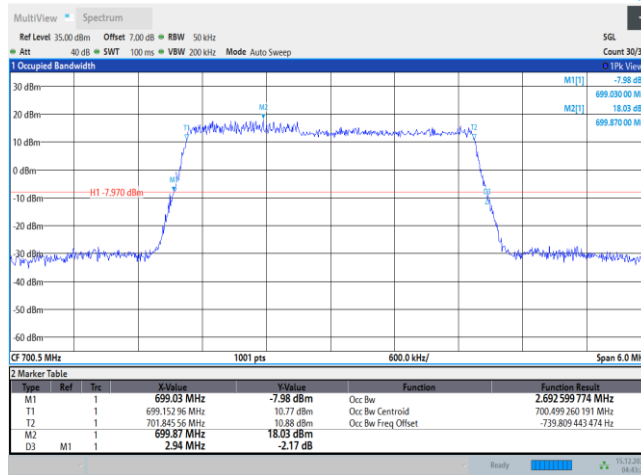
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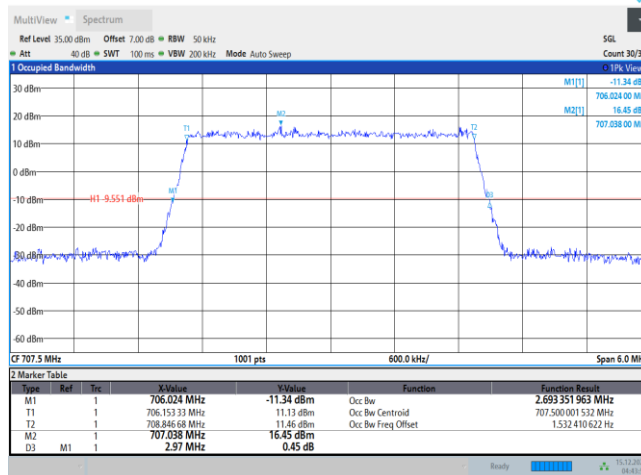


Band12-3MHz-QPSK-23025-15RB#0



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



04:44:00 15.12.2021



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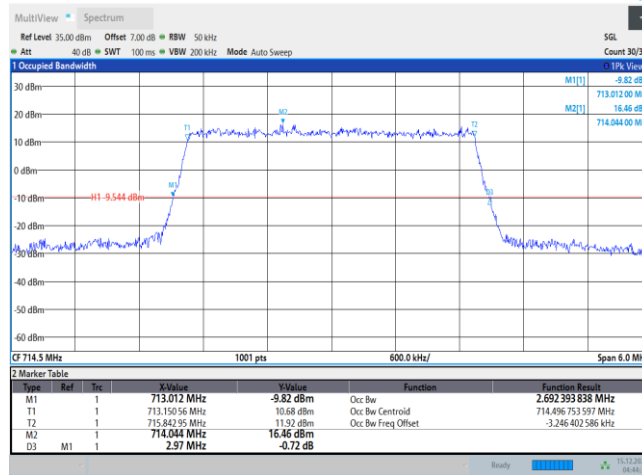
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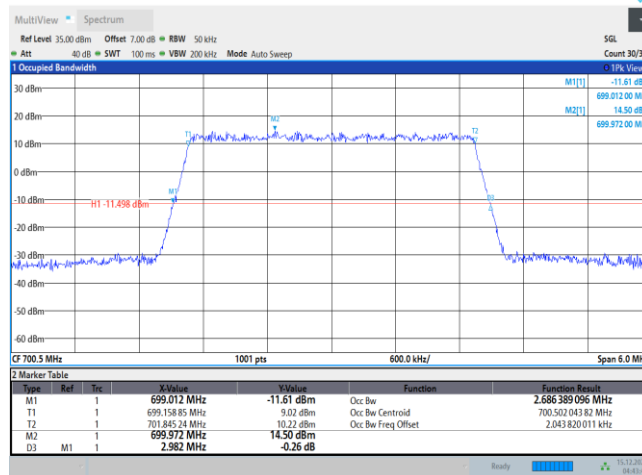
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Band12-3MHz-QPSK-23165-15RB#0



04:44:36 15.12.2021

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



04:43:41 15.12.2021



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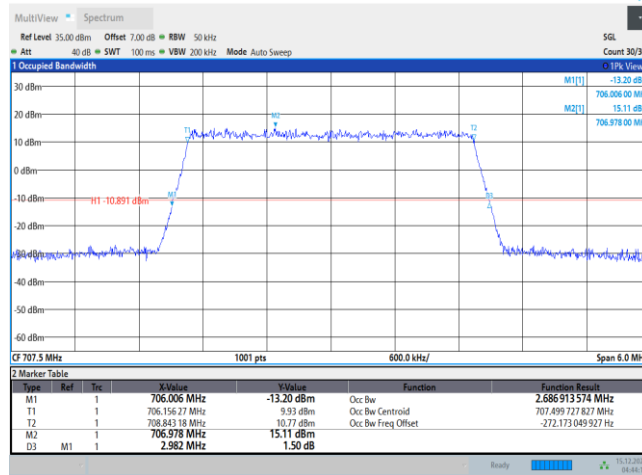
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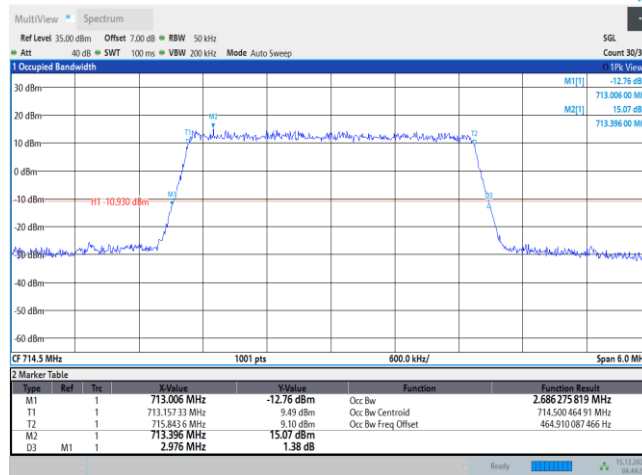
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Band12-3MHz-16QAM-23095-15RB#0



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04:44:54 15.12.2021

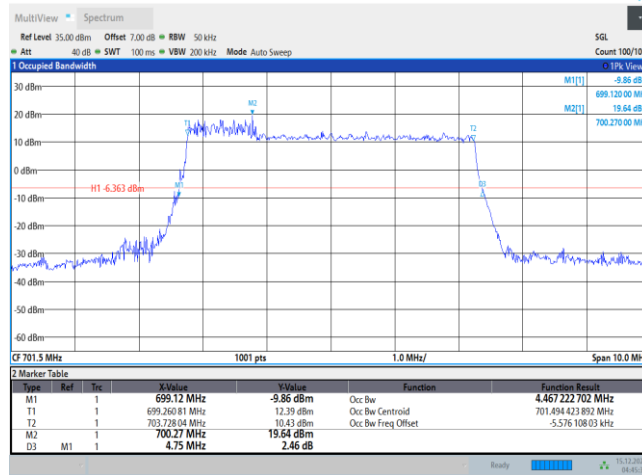


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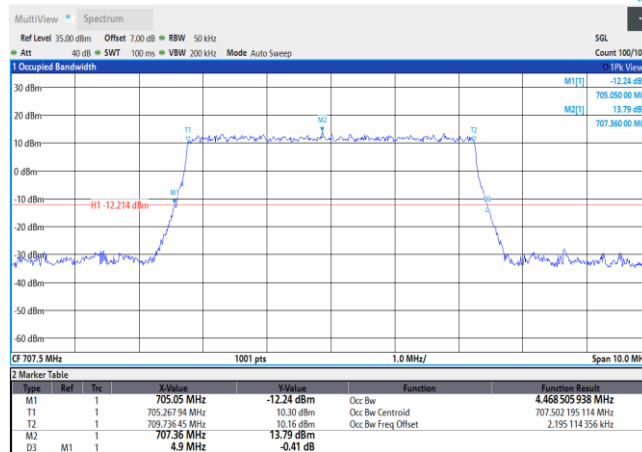
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Band12-5MHz-QPSK-23035-25RB#0



04:45:34 15.12.2021

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



04:46:24 15.12.2021



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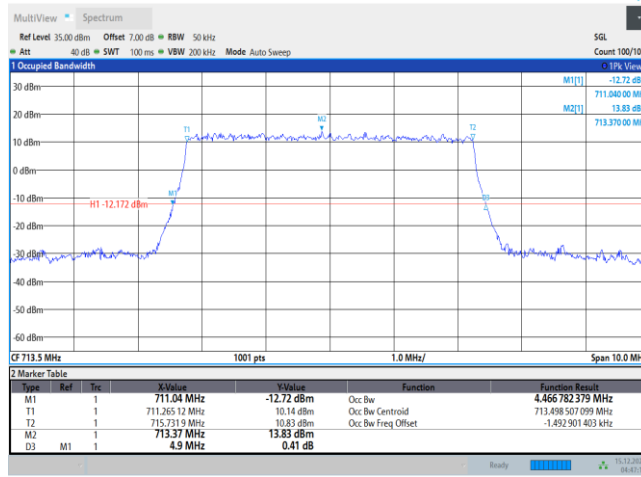
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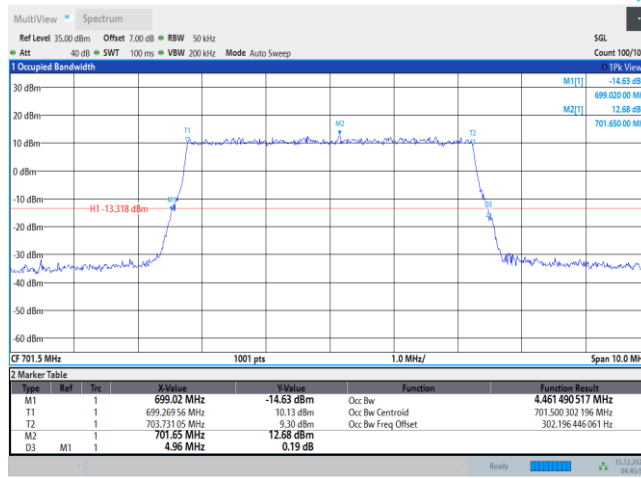


Band12-5MHz-QPSK-23155-25RB#0



04:47:15 15.12.2021

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



04:45:59 15.12.2021



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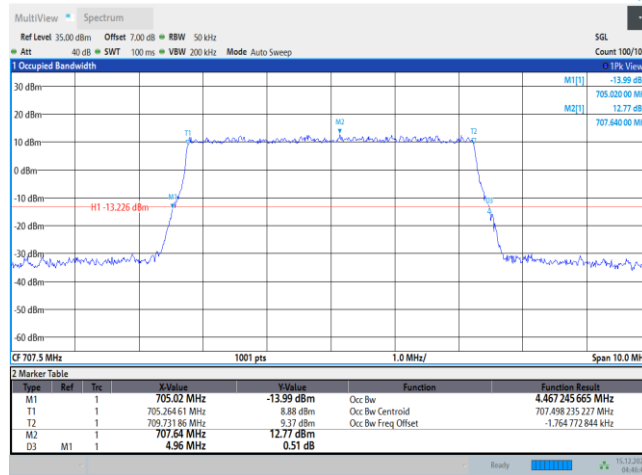
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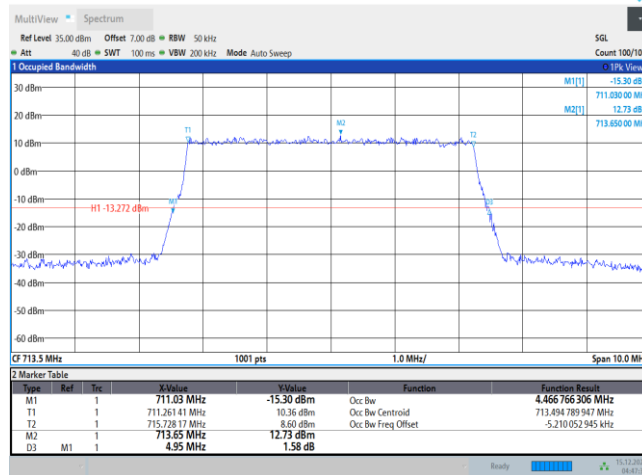
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Band12-5MHz-16QAM-23095-25RB#0



04:46:49 15.12.2021

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



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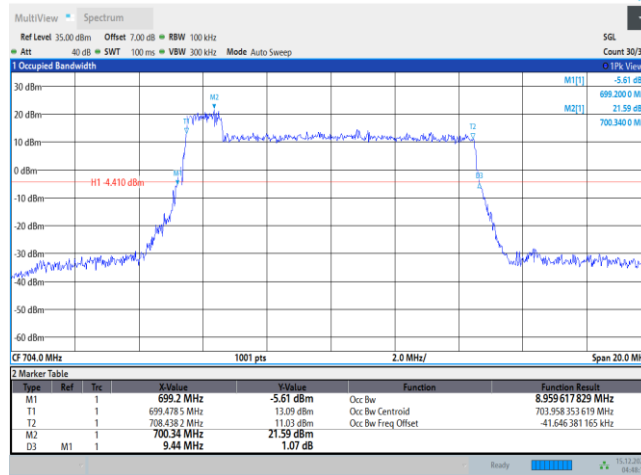
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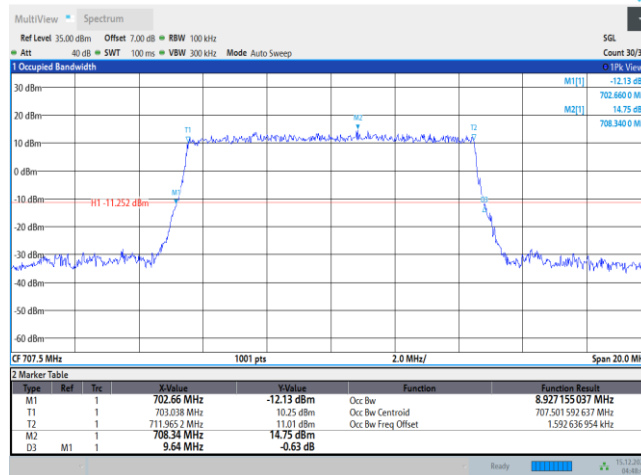
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Band12-10MHz-QPSK-23060-50RB#0



04:48:11 15.12.2021

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



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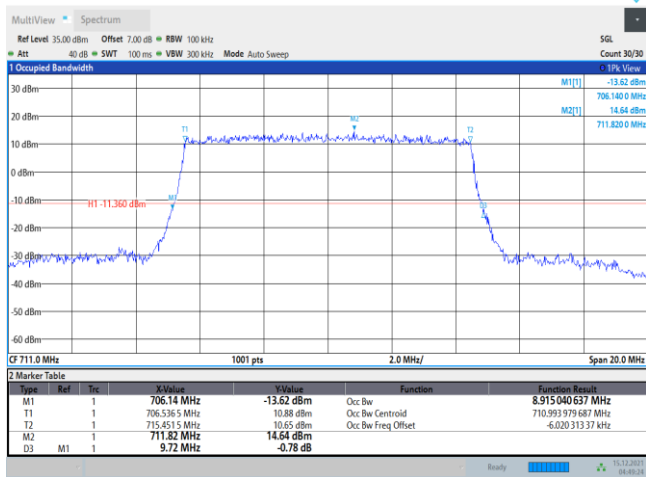
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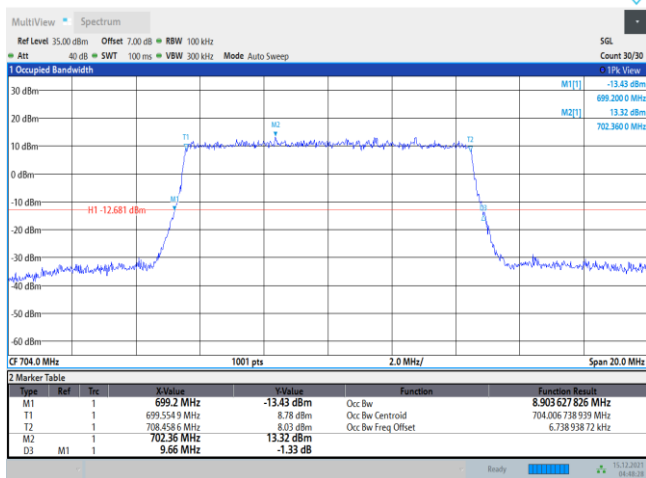
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Band12-10MHz-QPSK-23130-50RB#0



04:49:24 15.12.2021

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



04:48:29 15.12.2021



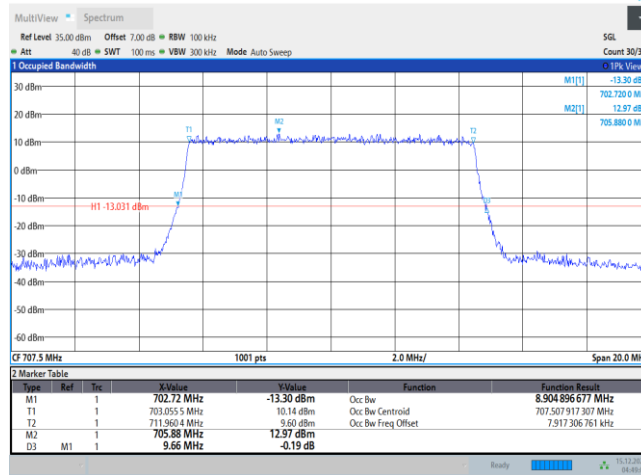
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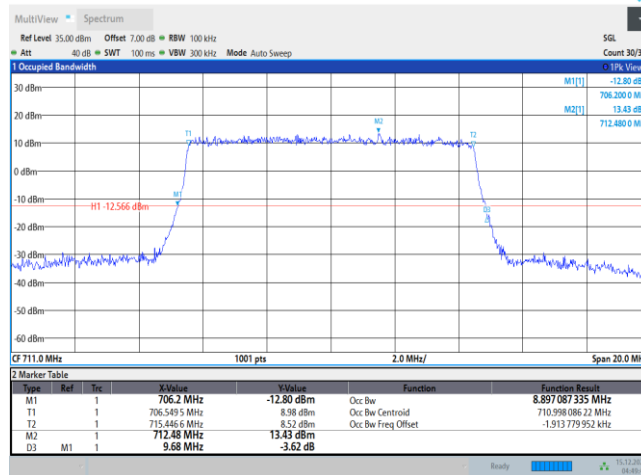


Band12-10MHz-16QAM-23095-50RB#0



04:49:06 15.12.2021

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



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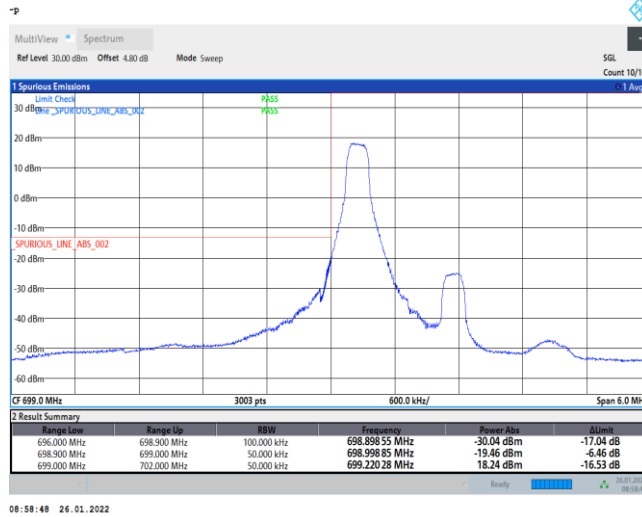
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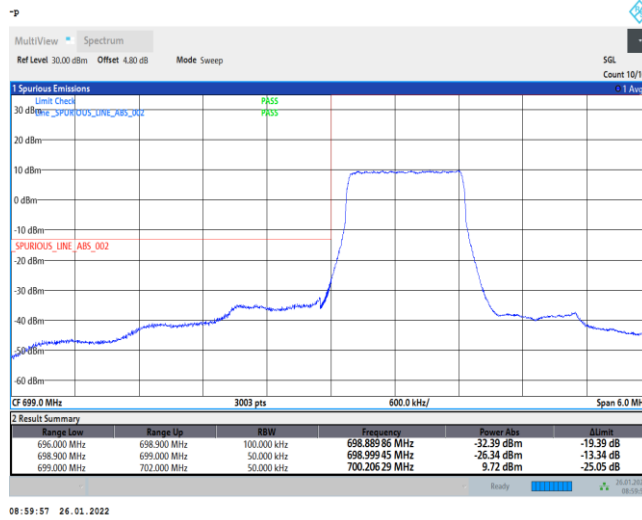
# Band Edge

## Test Graphs

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



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

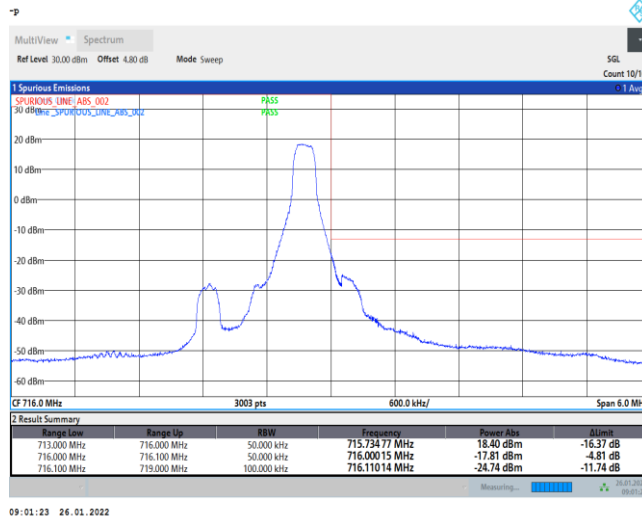


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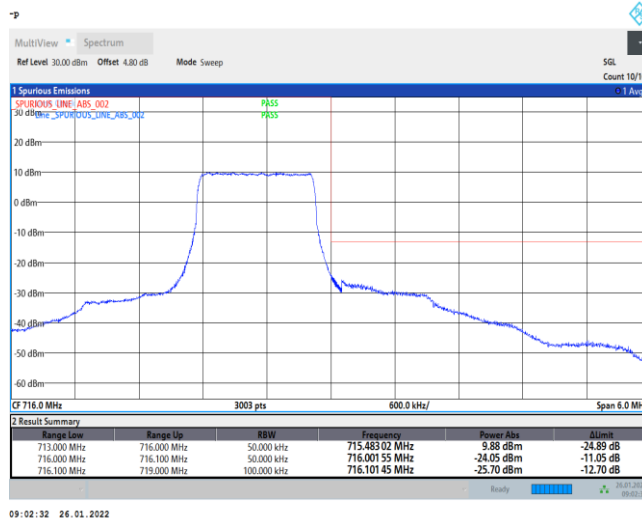
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Band12-1.4MHz-QPSK-23173-1RB#5



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



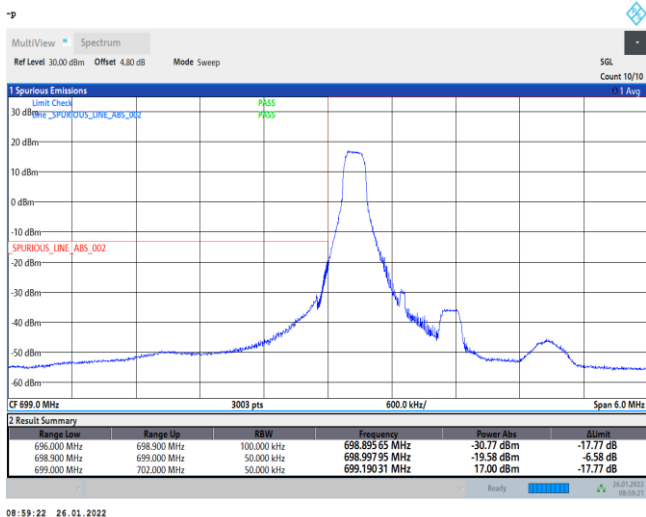
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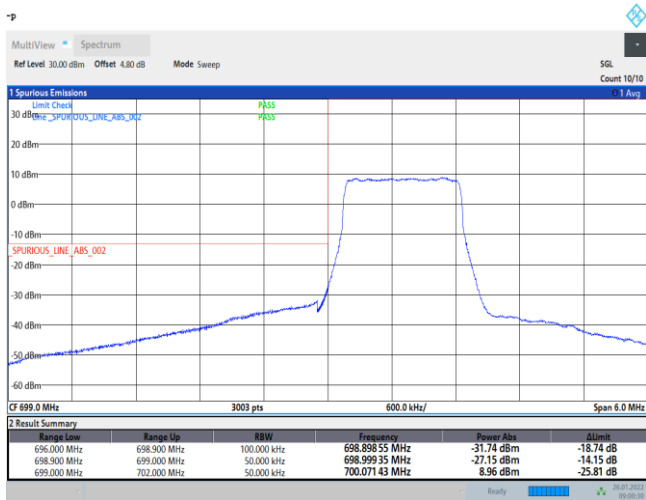
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Band12-1.4MHz-16QAM-23017-1RB#0



08:59:22 26.01.2022

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



09:00:31 26.01.2022

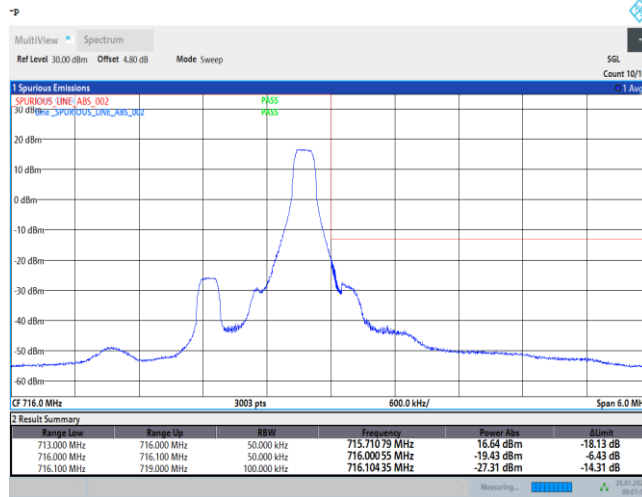


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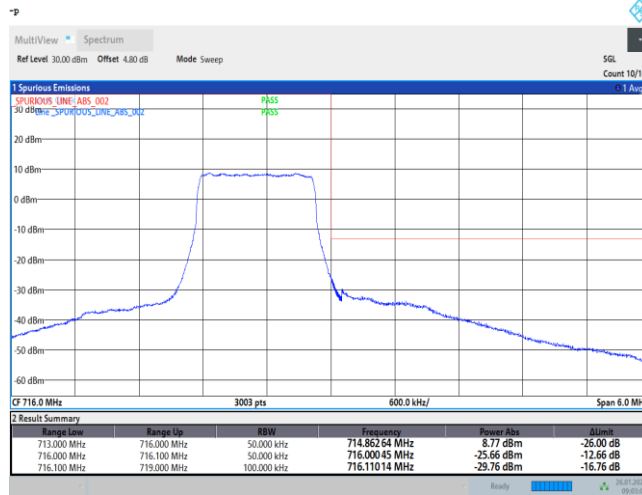
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Band12-1.4MHz-16QAM-23173-1RB#5



09:01:57 26.01.2022

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



09:03:06 26.01.2022



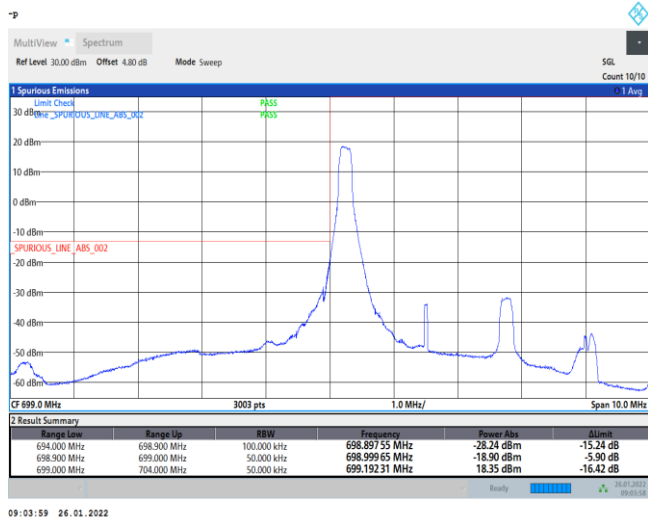
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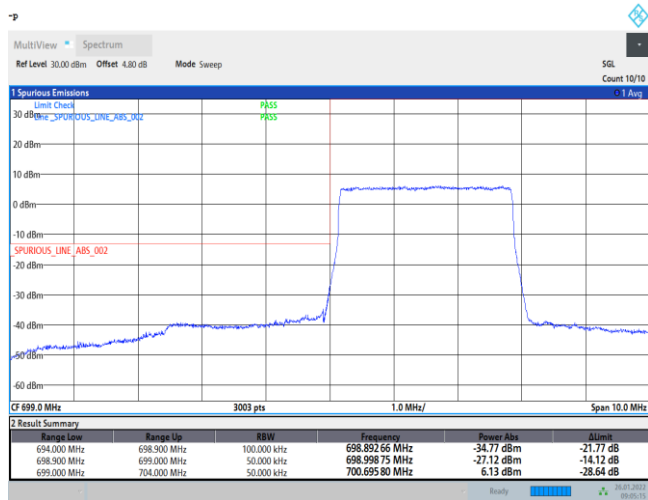


Band12-3MHz-QPSK-23025-1RB#0



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



09:05:16 26.01.2022

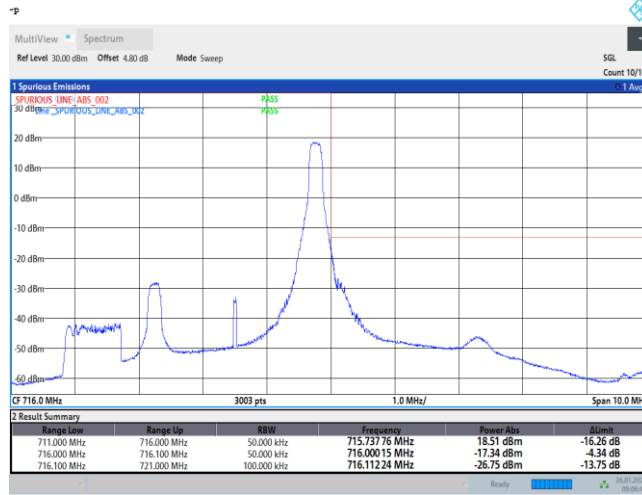


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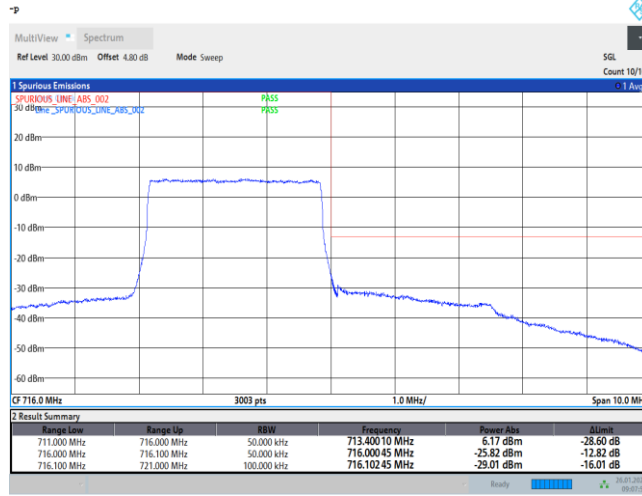
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Band12-3MHz-QPSK-23165-1RB#14



09:06:42 26.01.2022

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



09:07:51 26.01.2022

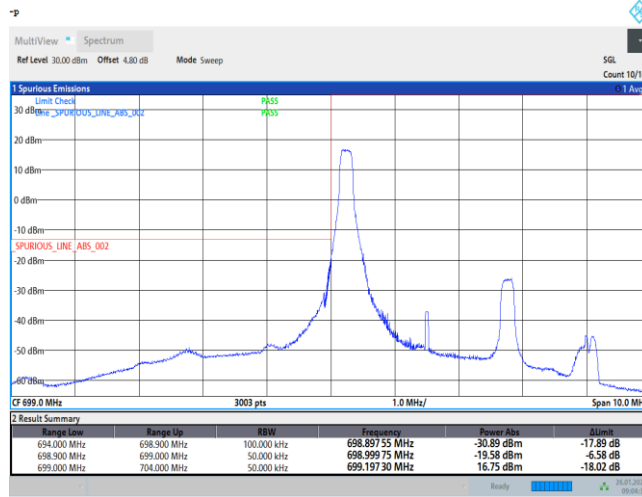


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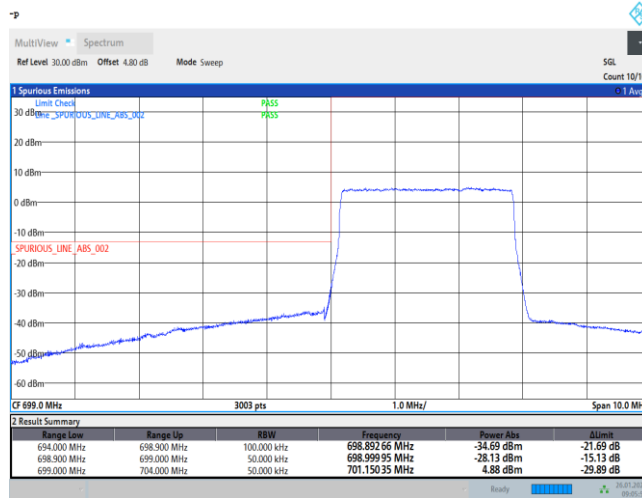
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Band12-3MHz-16QAM-23025-1RB#0



09:04:33 26.01.2022

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



09:05:50 26.01.2022



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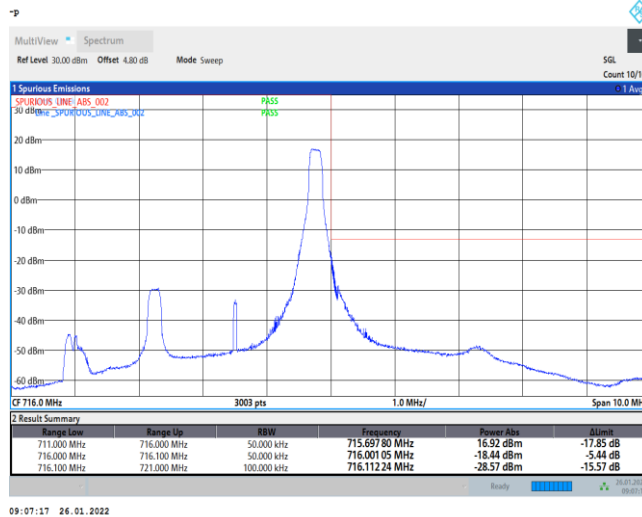
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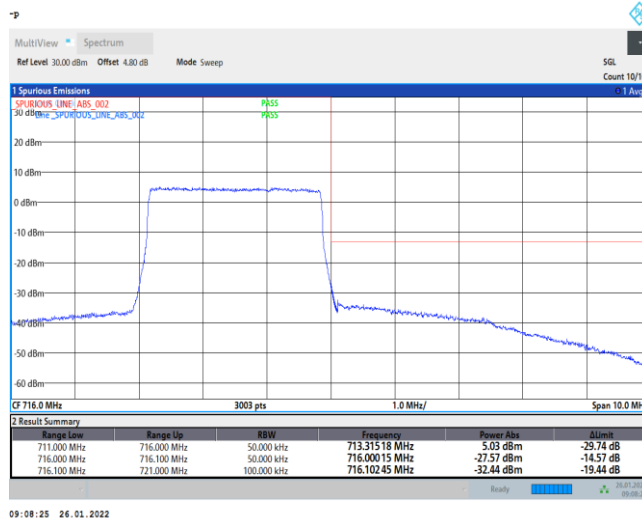
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Band12-3MHz-16QAM-23165-1RB#14



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

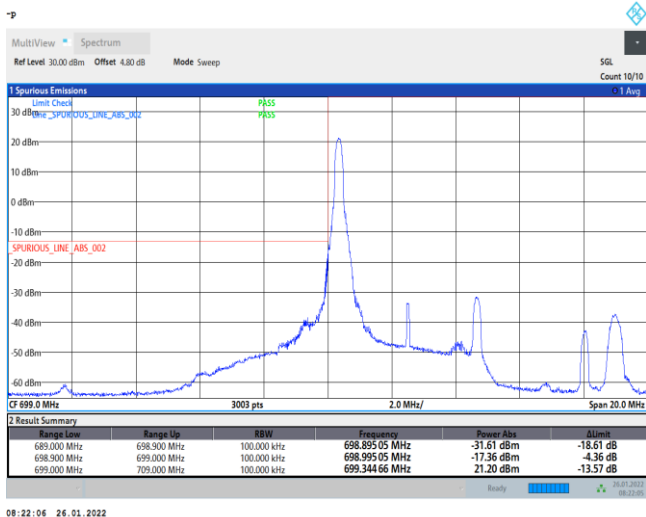


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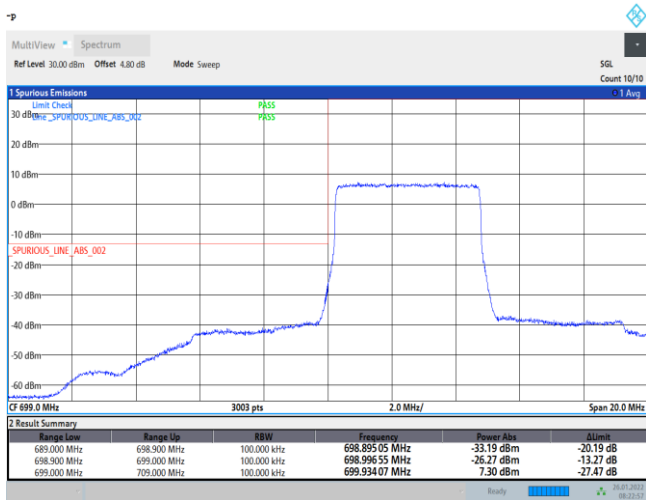
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Band12-5MHz-QPSK-23035-1RB#0



08:22:06 26.01.2022

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



08:22:58 26.01.2022



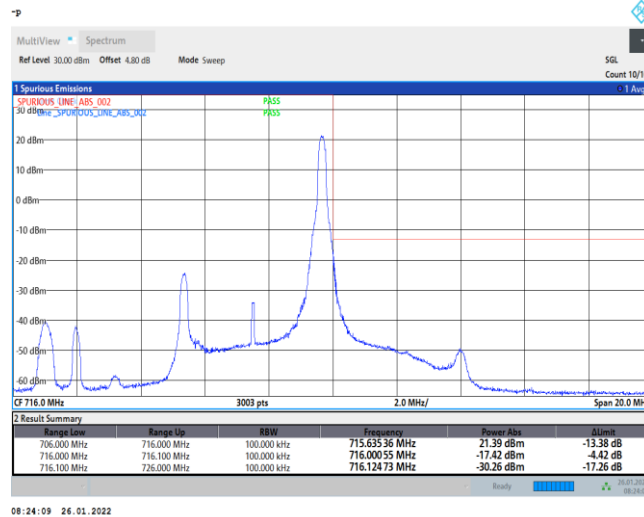
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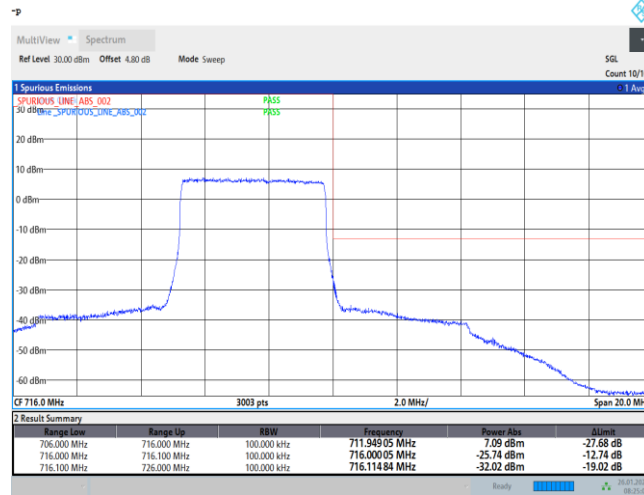


Band12-5MHz-QPSK-23155-1RB#24



08:24:09 26.01.2022

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



08:25:02 26.01.2022



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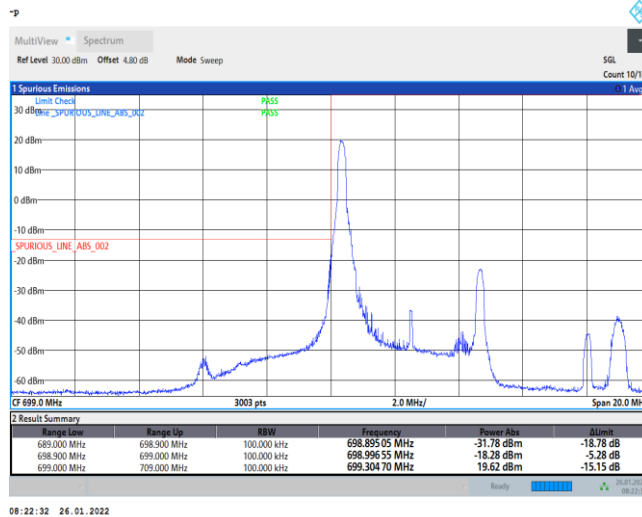
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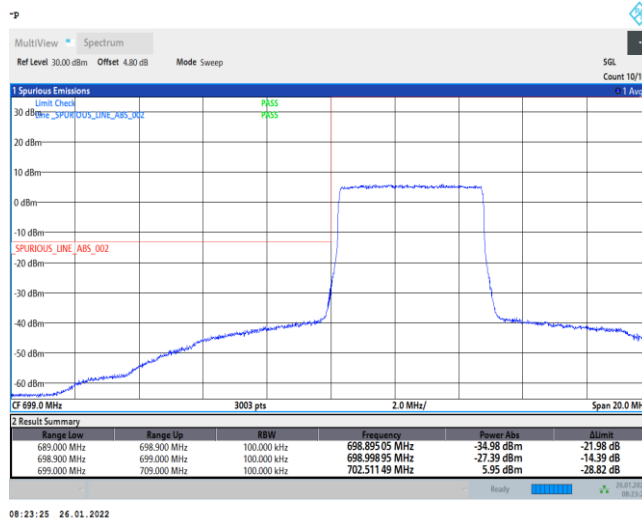
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Band12-5MHz-16QAM-23035-25RB#0

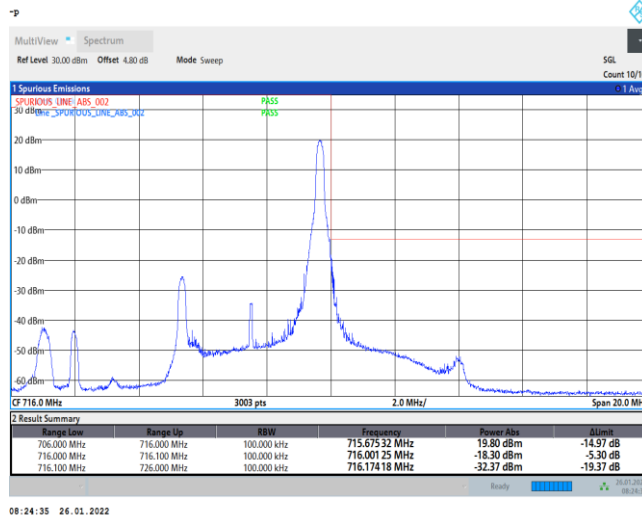


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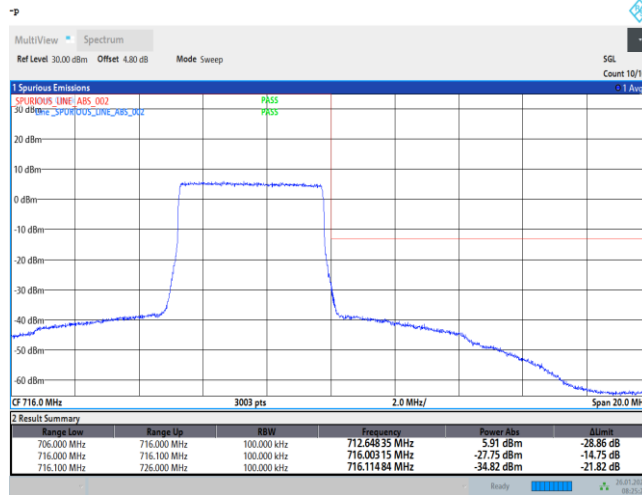
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08:24:35 26.01.2022

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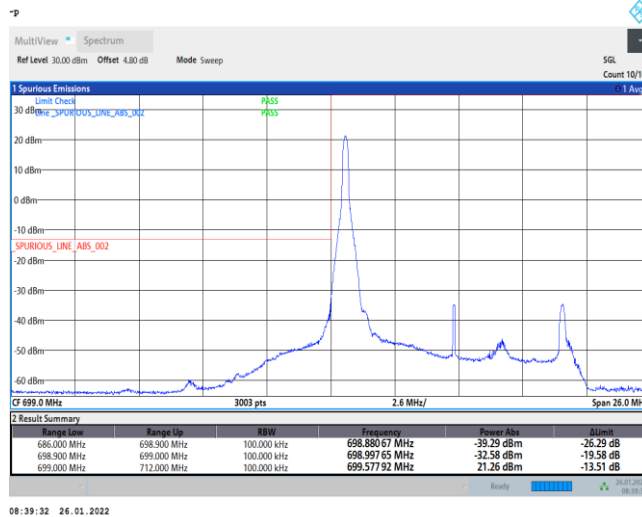
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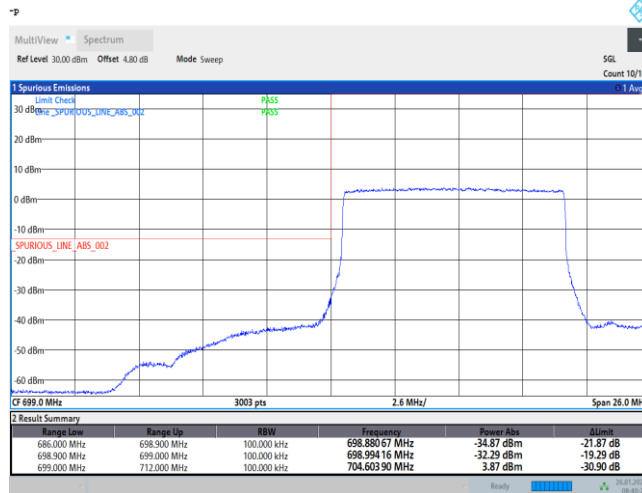
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Band12-10MHz-QPSK-23060-1RB#0



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



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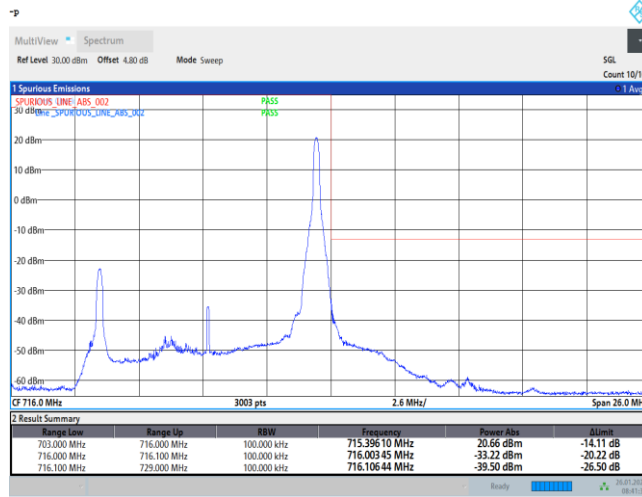
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Band12-10MHz-QPSK-23130-1RB#49



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



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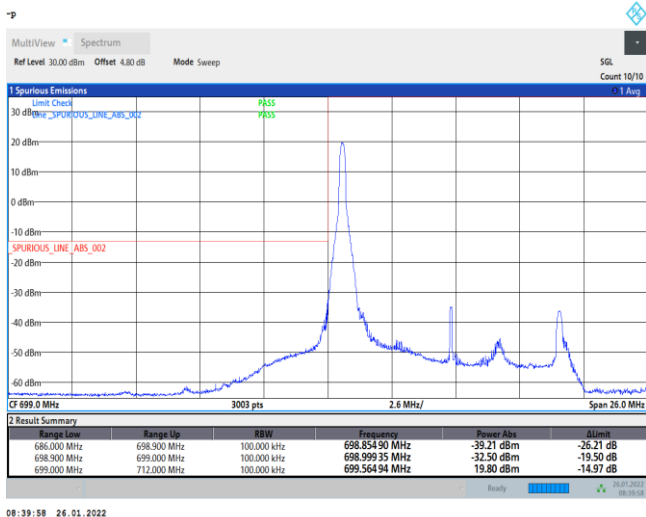
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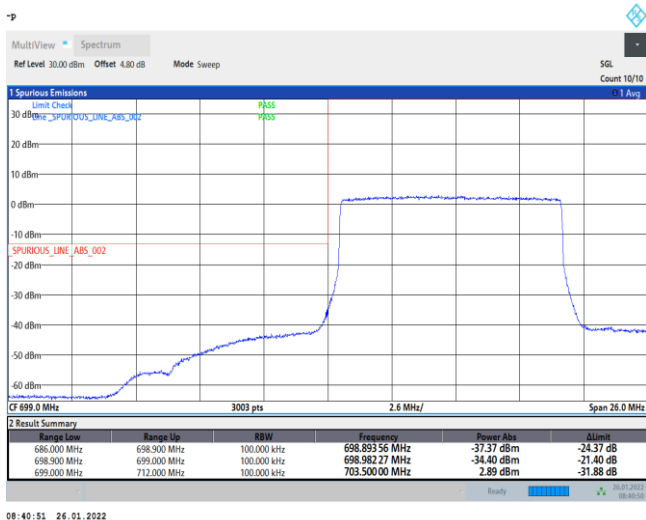
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Band12-10MHz-16QAM-23060-1RB#0



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



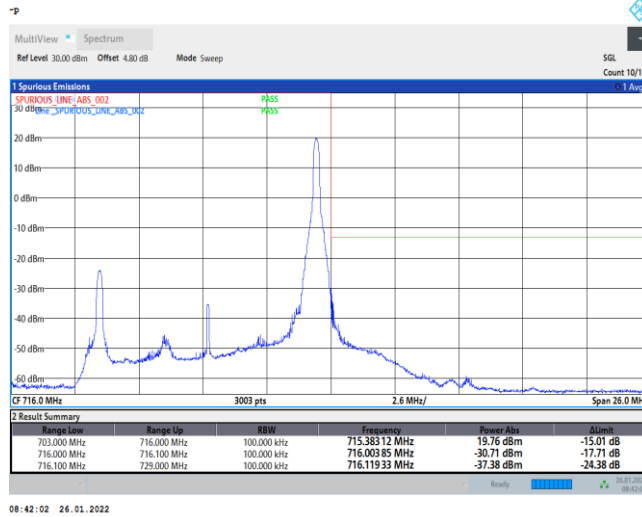
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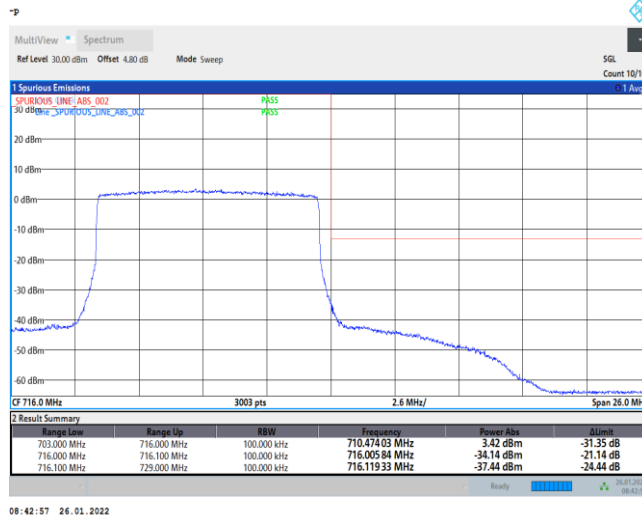
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Band12-10MHz-16QAM-23130-1RB#49



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



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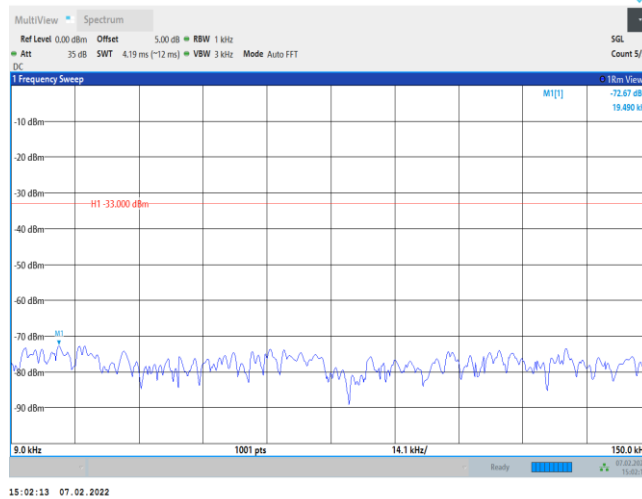
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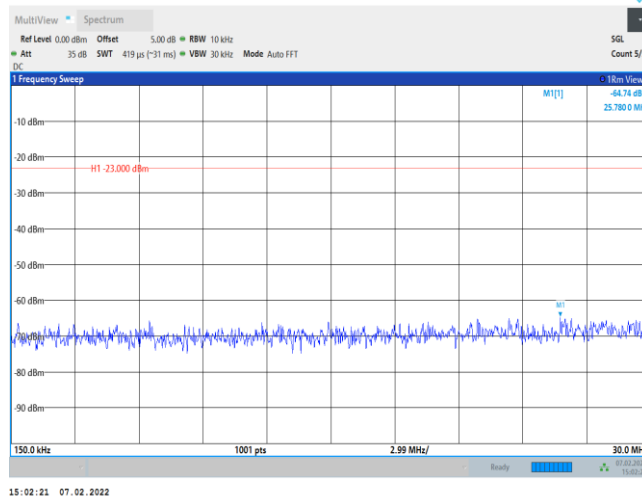
## Conducted Spurious Emission

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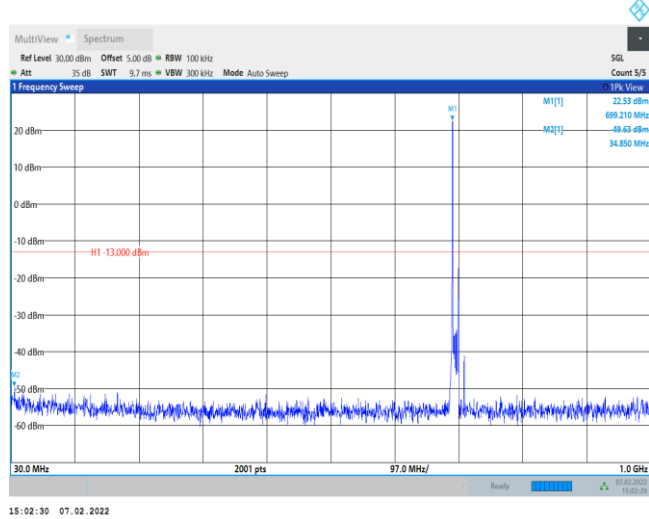
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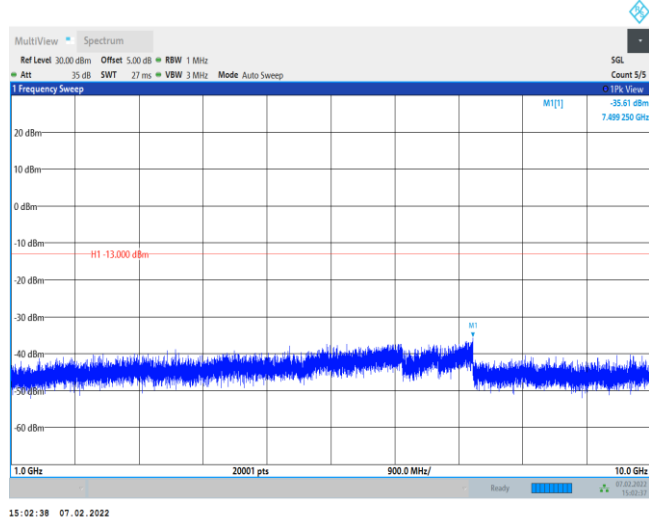
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



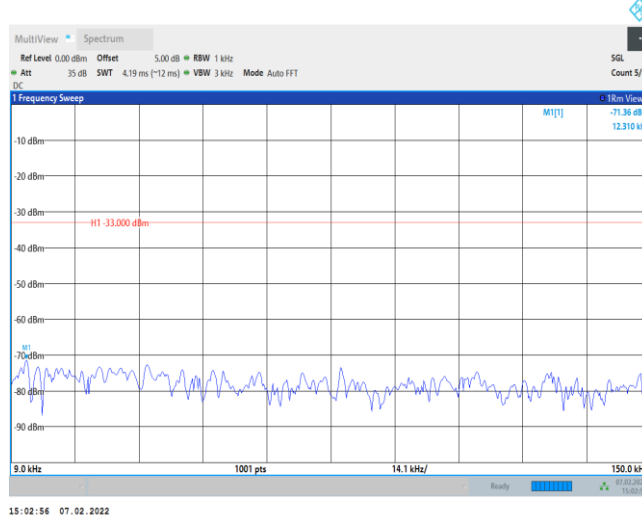
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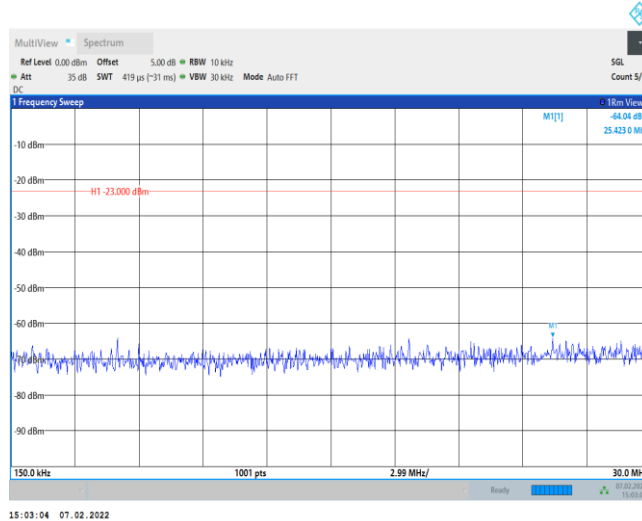
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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



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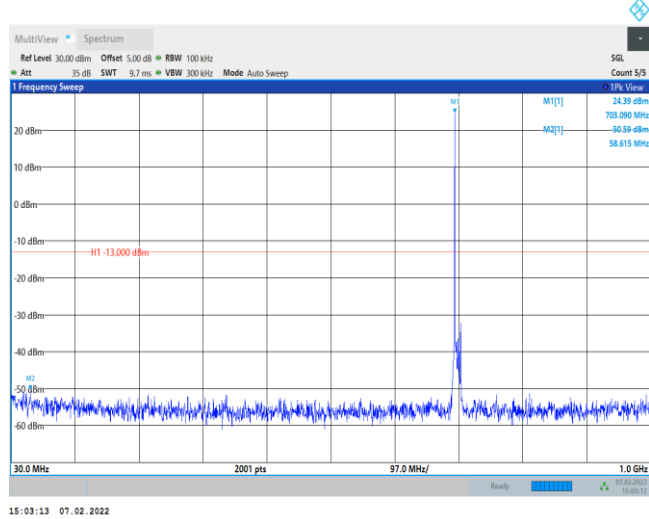
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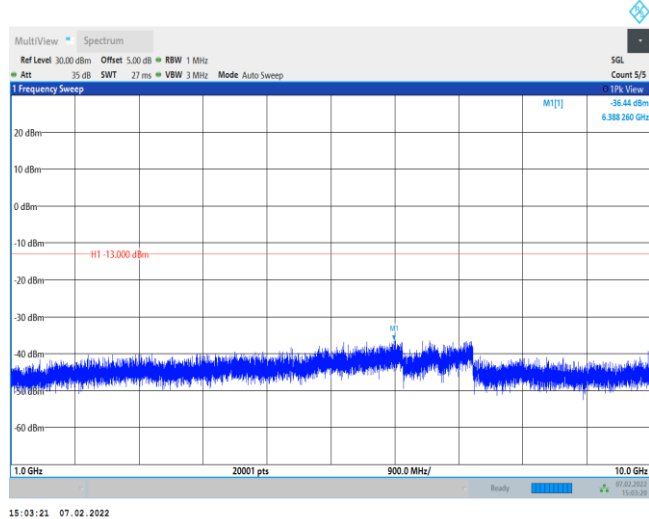
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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



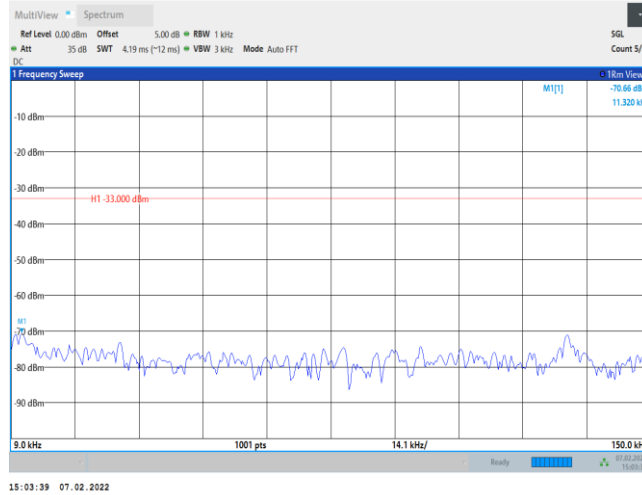
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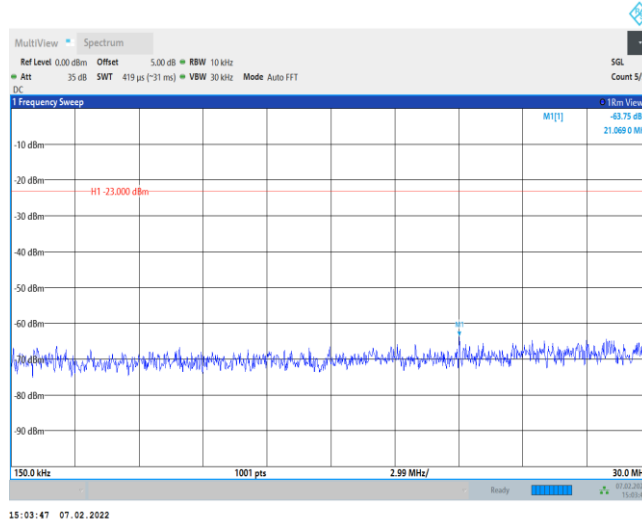
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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



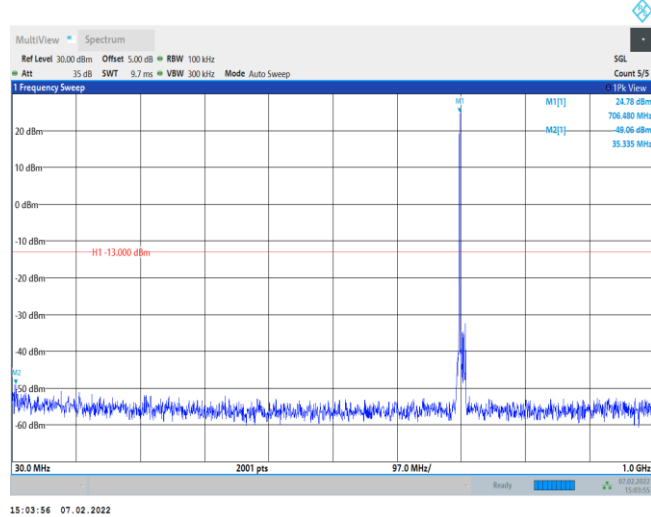
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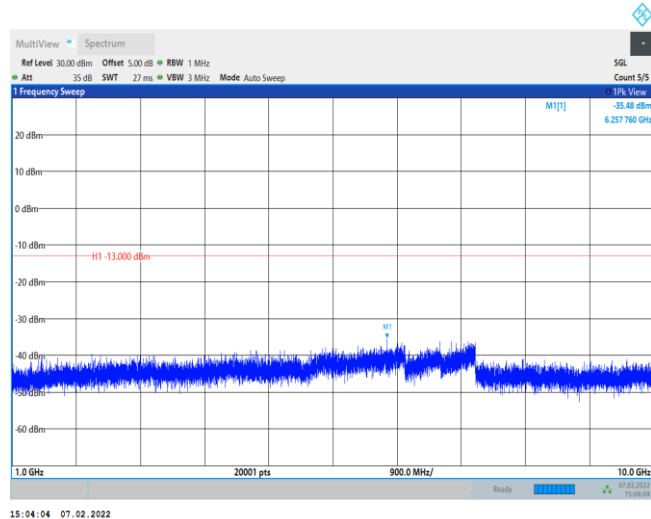
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = \_Band12 TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	67.07	-117.64	-50.57	-13.00	37.57	169	219	Horizontal
2	2098.7700	69.99	-115.99	-46.00	-13.00	33.00	145	114	Horizontal
3	2798.3600	58.38	-113.70	-55.32	-13.00	42.32	125	140	Horizontal
4	3497.9500	61.69	-112.28	-50.59	-13.00	37.59	187	123	Horizontal
5	4197.5400	66.00	-110.12	-44.12	-13.00	31.12	194	153	Horizontal
6	4897.1300	61.13	-108.25	-47.12	-13.00	34.12	132	258	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	58.84	-117.64	-58.80	-13.00	45.80	295	130	Vertical
2	2098.7700	62.47	-115.99	-53.52	-13.00	40.52	148	92	Vertical
3	2798.3600	54.98	-113.70	-58.72	-13.00	45.72	176	155	Vertical
4	3497.9500	55.35	-112.28	-56.93	-13.00	43.93	254	92	Vertical
5	4197.5400	62.13	-110.12	-47.99	-13.00	34.99	199	286	Vertical
6	4897.1300	59.96	-108.25	-48.29	-13.00	35.29	122	182	Vertical



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Test Band = \_Band12 TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	70.95	-117.67	-46.72	-13.00	33.72	198	336	Horizontal
2	2109.1429	68.83	-115.95	-47.12	-13.00	34.12	168	181	Horizontal
3	2812.3600	51.08	-113.60	-62.52	-13.00	49.52	174	117	Horizontal
4	3515.4500	53.73	-112.23	-58.50	-13.00	45.50	199	91	Horizontal
5	4218.5400	53.75	-110.05	-56.30	-13.00	43.30	146	181	Horizontal
6	4921.6300	55.28	-108.23	-52.95	-13.00	39.95	215	273	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	69.04	-117.67	-48.63	-13.00	35.63	163	360	Vertical
2	2109.2700	61.86	-115.94	-54.08	-13.00	41.08	129	92	Vertical
3	2812.3600	51.47	-113.60	-62.13	-13.00	49.13	187	357	Vertical
4	3515.4500	50.57	-112.23	-61.66	-13.00	48.66	146	78	Vertical
5	4218.5400	52.67	-110.05	-57.38	-13.00	44.38	129	116	Vertical
6	4921.6300	52.32	-108.23	-55.91	-13.00	42.91	188	346	Vertical



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Test Band = \_Band12 TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1429	73.28	-117.70	-44.42	-13.00	31.42	198	155	Horizontal
2	2119.7700	66.65	-115.90	-49.25	-13.00	36.25	164	194	Horizontal
3	2826.3600	54.48	-113.49	-59.01	-13.00	46.01	178	245	Horizontal
4	3532.9500	59.26	-112.18	-52.92	-13.00	39.92	164	116	Horizontal
5	4239.5400	60.66	-109.97	-49.31	-13.00	36.31	132	181	Horizontal
6	4946.1300	58.49	-108.22	-49.73	-13.00	36.73	111	194	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1429	67.17	-117.70	-50.53	-13.00	37.53	122	180	Vertical
2	2119.7700	55.66	-115.90	-60.24	-13.00	47.24	194	169	Vertical
3	2826.3600	53.59	-113.49	-59.90	-13.00	46.90	175	38	Vertical
4	3532.9500	55.06	-112.18	-57.12	-13.00	44.12	235	180	Vertical
5	4239.4286	60.35	-109.97	-49.62	-13.00	36.62	248	165	Vertical
6	4946.1300	52.36	-108.22	-55.86	-13.00	42.86	210	180	Vertical



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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	23060	50RB#0	VL	NT	-0.10	-0.000142	PASS
Band12	10MHz	QPSK	23060	50RB#0	VN	NT	-0.70	-0.000994	PASS
Band12	10MHz	QPSK	23060	50RB#0	VH	NT	-0.70	-0.000994	PASS
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	0.00	0.000000	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.40	0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-1.60	-0.002261	PASS
Band12	10MHz	QPSK	23130	50RB#0	VL	NT	-1.00	-0.001406	PASS
Band12	10MHz	QPSK	23130	50RB#0	VN	NT	-0.90	-0.001266	PASS
Band12	10MHz	QPSK	23130	50RB#0	VH	NT	-2.00	-0.002813	PASS
Band12	10MHz	16QAM	23060	50RB#0	VL	NT	-1.10	-0.001563	PASS
Band12	10MHz	16QAM	23060	50RB#0	VN	NT	-0.70	-0.000994	PASS
Band12	10MHz	16QAM	23060	50RB#0	VH	NT	-0.80	-0.001136	PASS
Band12	10MHz	16QAM	23095	50RB#0	VL	NT	-0.80	-0.001131	PASS
Band12	10MHz	16QAM	23095	50RB#0	VN	NT	-1.00	-0.001413	PASS
Band12	10MHz	16QAM	23095	50RB#0	VH	NT	-0.90	-0.001272	PASS
Band12	10MHz	16QAM	23130	50RB#0	VL	NT	-1.60	-0.002250	PASS
Band12	10MHz	16QAM	23130	50RB#0	VN	NT	-1.60	-0.002250	PASS
Band12	10MHz	16QAM	23130	50RB#0	VH	NT	-1.80	-0.002532	PASS



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Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	-0.60	-0.000852	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	-1.40	-0.001989	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-0.20	-0.000284	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	-1.00	-0.001420	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-0.40	-0.000568	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	0.80	0.001136	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	-1.60	-0.002273	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-0.20	-0.000284	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	-1.70	-0.002415	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-1.50	-0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-1.00	-0.001413	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-0.50	-0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-1.00	-0.001413	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	-1.20	-0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.10	-0.000141	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-1.10	-0.001547	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	-1.10	-0.001547	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-0.40	-0.000563	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-2.20	-0.003094	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	-0.90	-0.001266	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	-0.70	-0.000985	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-1.10	-0.001547	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	-1.80	-0.002532	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	-1.50	-0.002110	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-30	-0.50	-0.000710	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-20	-1.50	-0.002131	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	-10	-0.80	-0.001136	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	0	-0.20	-0.000284	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	10	0.00	0.000000	PASS



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Band12	10MHz	16QAM	23060	50RB#0	NV	20	0.10	0.000142	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	30	-0.70	-0.000994	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	40	0.20	0.000284	PASS
Band12	10MHz	16QAM	23060	50RB#0	NV	50	-0.30	-0.000426	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-30	0.00	0.000000	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-20	-1.00	-0.001413	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	-10	-0.90	-0.001272	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	0	-1.40	-0.001979	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	10	-1.50	-0.002120	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	20	0.60	0.000848	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	30	-0.30	-0.000424	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	40	-2.30	-0.003251	PASS
Band12	10MHz	16QAM	23095	50RB#0	NV	50	-0.20	-0.000283	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-30	-2.40	-0.003376	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-20	-2.40	-0.003376	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	-10	-3.10	-0.004360	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	0	-1.90	-0.002672	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	10	-2.10	-0.002954	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	20	-1.00	-0.001406	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	30	-2.70	-0.003797	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	40	-1.60	-0.002250	PASS
Band12	10MHz	16QAM	23130	50RB#0	NV	50	-1.00	-0.001406	PASS

The End



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