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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	22.65	21.47	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.67	21.49	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.68	21.5	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.68	20.5	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.63	21.45	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.62	21.44	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.6	21.42	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.63	20.45	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.32	21.14	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.59	21.41	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.59	21.41	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.61	20.43	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.74	20.56	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.89	20.71	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.77	20.59	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.67	19.49	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.72	20.54	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.78	20.6	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.68	20.5	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.61	19.43	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.67	20.49	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.69	20.51	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.7	20.52	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.59	19.41	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#0	20.82	19.64	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#2	20.76	19.58	34.77	PASS
Band12	1.4MHz	64QAM	23017	1RB#5	20.89	19.71	34.77	PASS



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Band12	1.4MHz	64QAM	23017	6RB#0	19.64	18.46	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#0	20.75	19.57	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#2	20.81	19.63	34.77	PASS
Band12	1.4MHz	64QAM	23095	1RB#5	20.75	19.57	34.77	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	19.55	18.37	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#0	20.7	19.52	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#2	20.72	19.54	34.77	PASS
Band12	1.4MHz	64QAM	23173	1RB#5	20.74	19.56	34.77	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	19.59	18.41	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#0	17.87	16.69	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#2	17.88	16.7	34.77	PASS
Band12	1.4MHz	256QAM	23017	1RB#5	17.93	16.75	34.77	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	17.72	16.54	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#0	17.75	16.57	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#2	17.88	16.7	34.77	PASS
Band12	1.4MHz	256QAM	23095	1RB#5	17.79	16.61	34.77	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	17.71	16.53	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#0	17.73	16.55	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#2	17.8	16.62	34.77	PASS
Band12	1.4MHz	256QAM	23173	1RB#5	17.77	16.59	34.77	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	17.69	16.51	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.63	21.45	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.65	21.47	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.72	21.54	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.68	20.5	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.12	20.94	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.55	21.37	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.57	21.39	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.61	20.43	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.36	21.18	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.59	21.41	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.61	21.43	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.56	20.38	34.77	PASS



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Band12	3MHz	16QAM	23025	1RB#0	21.8	20.62	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.76	20.58	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.8	20.62	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.67	19.49	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.76	20.58	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.73	20.55	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.73	20.55	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.56	19.38	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.7	20.52	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.7	20.52	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.72	20.54	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.53	19.35	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#0	20.79	19.61	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#8	20.82	19.64	34.77	PASS
Band12	3MHz	64QAM	23025	1RB#14	20.88	19.7	34.77	PASS
Band12	3MHz	64QAM	23025	15RB#0	19.66	18.48	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#0	20.74	19.56	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#8	20.76	19.58	34.77	PASS
Band12	3MHz	64QAM	23095	1RB#14	20.72	19.54	34.77	PASS
Band12	3MHz	64QAM	23095	15RB#0	19.6	18.42	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#0	20.76	19.58	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#8	20.72	19.54	34.77	PASS
Band12	3MHz	64QAM	23165	1RB#14	20.76	19.58	34.77	PASS
Band12	3MHz	64QAM	23165	15RB#0	19.53	18.35	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#0	17.83	16.65	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#8	17.85	16.67	34.77	PASS
Band12	3MHz	256QAM	23025	1RB#14	17.94	16.76	34.77	PASS
Band12	3MHz	256QAM	23025	15RB#0	17.81	16.63	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#0	17.85	16.67	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#8	17.77	16.59	34.77	PASS
Band12	3MHz	256QAM	23095	1RB#14	17.78	16.6	34.77	PASS
Band12	3MHz	256QAM	23095	15RB#0	17.73	16.55	34.77	PASS
Band12	3MHz	256QAM	23165	1RB#0	17.82	16.64	34.77	PASS



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Band12	3MHz	256QAM	23165	1RB#14	17.79	16.61	34.77	PASS
Band12	3MHz	256QAM	23165	15RB#0	17.67	16.49	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.74	21.56	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.79	21.61	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.67	21.49	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.68	20.5	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	21.78	20.6	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.7	21.52	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.6	21.42	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.7	20.52	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	21.62	20.44	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.63	21.45	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.64	21.46	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.53	20.35	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.85	20.67	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.86	20.68	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.77	20.59	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.73	19.55	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.82	20.64	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.74	20.56	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.71	20.53	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.65	19.47	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.74	20.56	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.71	20.53	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.79	20.61	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.49	19.31	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#0	20.88	19.7	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#12	20.94	19.76	34.77	PASS
Band12	5MHz	64QAM	23035	1RB#24	20.8	19.62	34.77	PASS
Band12	5MHz	64QAM	23035	25RB#0	19.65	18.47	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#0	20.84	19.66	34.77	PASS
Band12	5MHz	64QAM	23095	1RB#12	20.78	19.6	34.77	PASS



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Band12	5MHz	64QAM	23095	25RB#0	19.59	18.41	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#0	20.72	19.54	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#12	20.77	19.59	34.77	PASS
Band12	5MHz	64QAM	23155	1RB#24	20.77	19.59	34.77	PASS
Band12	5MHz	64QAM	23155	25RB#0	19.45	18.27	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#0	17.89	16.71	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#12	17.98	16.8	34.77	PASS
Band12	5MHz	256QAM	23035	1RB#24	17.79	16.61	34.77	PASS
Band12	5MHz	256QAM	23035	25RB#0	17.83	16.65	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#0	17.9	16.72	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#12	17.81	16.63	34.77	PASS
Band12	5MHz	256QAM	23095	1RB#24	17.7	16.52	34.77	PASS
Band12	5MHz	256QAM	23095	25RB#0	17.79	16.61	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#0	17.76	16.58	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#12	17.81	16.63	34.77	PASS
Band12	5MHz	256QAM	23155	1RB#24	17.8	16.62	34.77	PASS
Band12	5MHz	256QAM	23155	25RB#0	17.62	16.44	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.71	21.53	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.66	21.48	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.56	21.38	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.62	20.44	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	21.72	20.54	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.65	21.47	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.56	21.38	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.75	20.57	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	21.65	20.47	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.58	21.4	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.56	21.38	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.6	20.42	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.82	20.64	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.74	20.56	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.65	20.47	34.77	PASS



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Band12	10MHz	16QAM	23060	50RB#0	20.6	19.42	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.85	20.67	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	21.78	20.6	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.66	20.48	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.69	19.51	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.78	20.6	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.66	20.48	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.64	20.46	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.54	19.36	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#0	20.89	19.71	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#24	20.78	19.6	34.77	PASS
Band12	10MHz	64QAM	23060	1RB#49	20.75	19.57	34.77	PASS
Band12	10MHz	64QAM	23060	50RB#0	19.57	18.39	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#0	20.92	19.74	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#24	20.8	19.62	34.77	PASS
Band12	10MHz	64QAM	23095	1RB#49	20.73	19.55	34.77	PASS
Band12	10MHz	64QAM	23095	50RB#0	19.67	18.49	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#0	20.81	19.63	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#24	20.75	19.57	34.77	PASS
Band12	10MHz	64QAM	23130	1RB#49	20.72	19.54	34.77	PASS
Band12	10MHz	64QAM	23130	50RB#0	19.55	18.37	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#0	17.94	16.76	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#24	17.78	16.6	34.77	PASS
Band12	10MHz	256QAM	23060	1RB#49	17.78	16.6	34.77	PASS
Band12	10MHz	256QAM	23060	50RB#0	17.72	16.54	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#0	17.95	16.77	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#24	17.86	16.68	34.77	PASS
Band12	10MHz	256QAM	23095	1RB#49	17.66	16.48	34.77	PASS
Band12	10MHz	256QAM	23095	50RB#0	17.81	16.63	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#0	17.91	16.73	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#24	17.8	16.62	34.77	PASS
Band12	10MHz	256QAM	23130	1RB#49	17.77	16.59	34.77	PASS
Band12	10MHz	256QAM	23130	50RB#0	17.71	16.53	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	5.24	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.30	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.26	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	5.92	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.06	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.02	13	PASS
Band12	10MHz	64QAM	23060	50RB#0	6.12	13	PASS
Band12	10MHz	64QAM	23095	50RB#0	6.12	13	PASS
Band12	10MHz	64QAM	23130	50RB#0	6.12	13	PASS
Band12	10MHz	256QAM	23060	50RB#0	6.24	13	PASS
Band12	10MHz	256QAM	23095	50RB#0	6.22	13	PASS
Band12	10MHz	256QAM	23130	50RB#0	6.28	13	PASS



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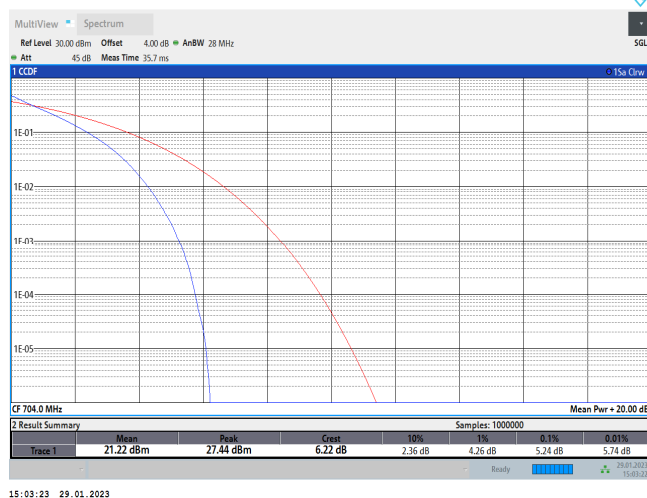
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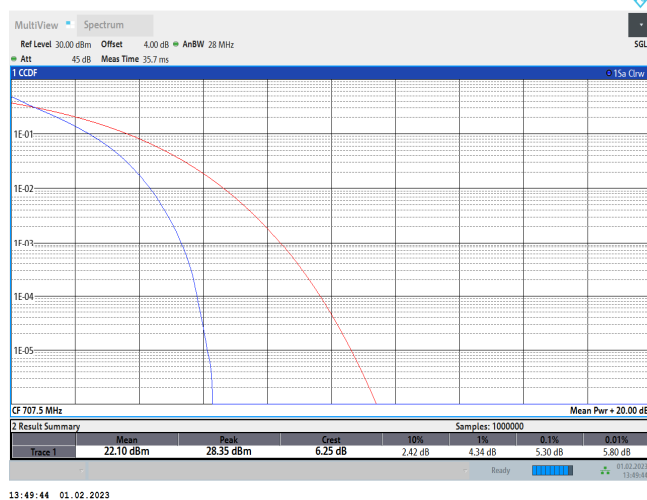
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### Test Graphs

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



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



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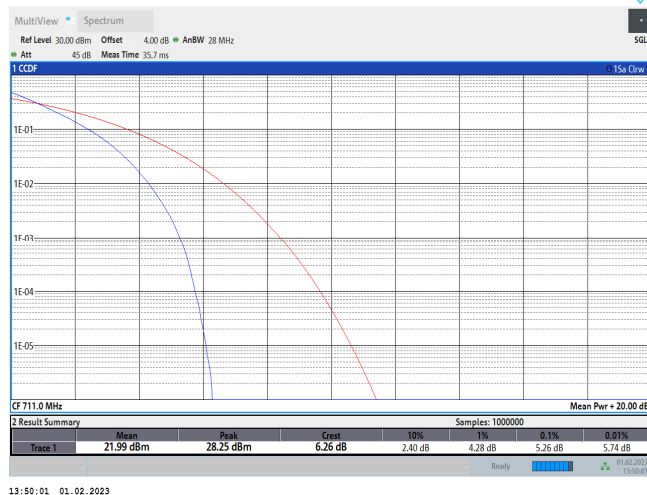
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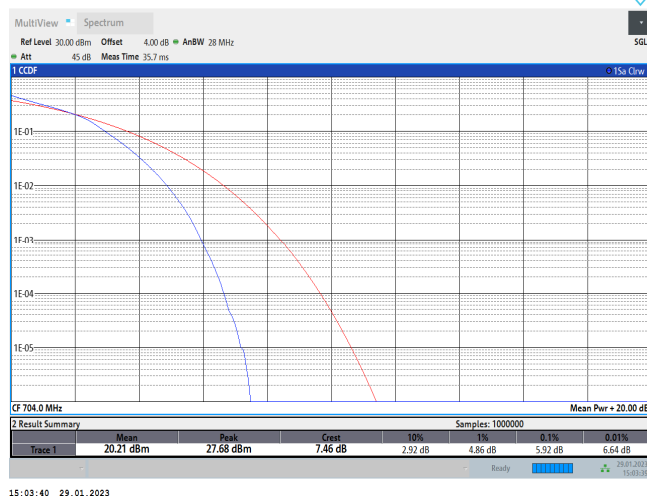
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### Band12-10MHz-QPSK-23130-50RB#0



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



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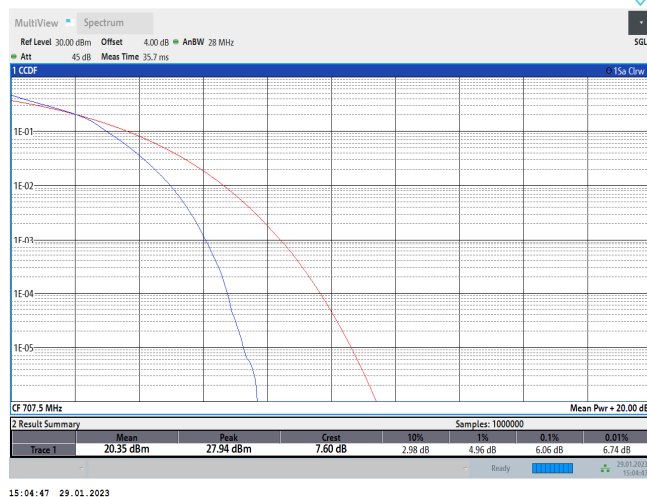
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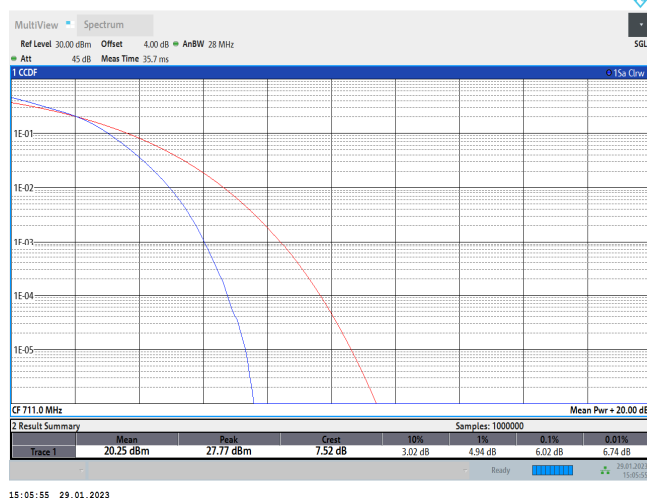
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### Band12-10MHz-16QAM-23095-50RB#0



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



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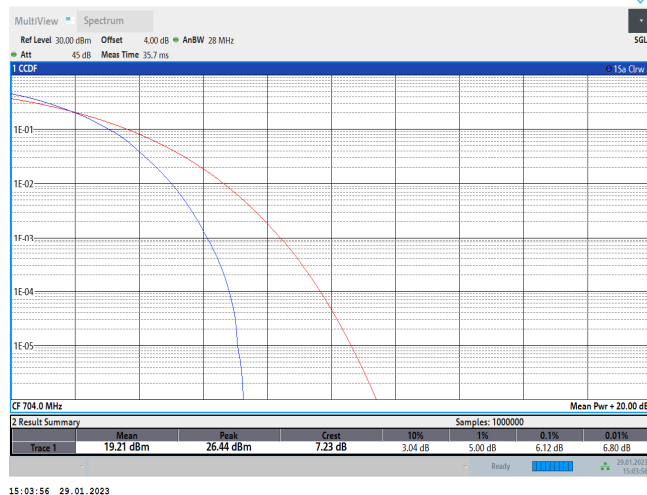
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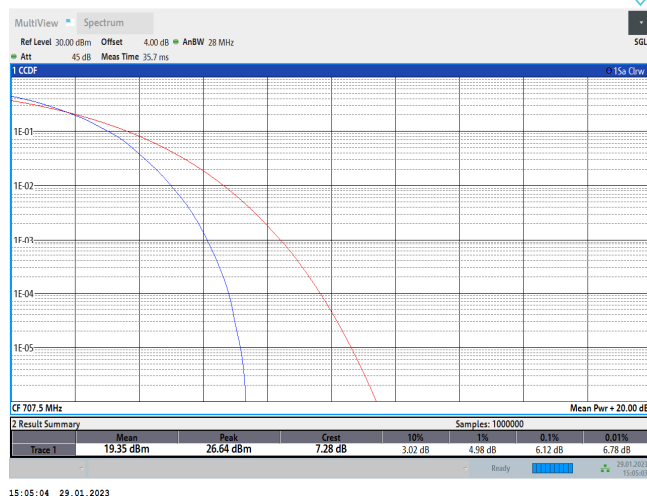
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### Band12-10MHz-64QAM-23095-50RB#0



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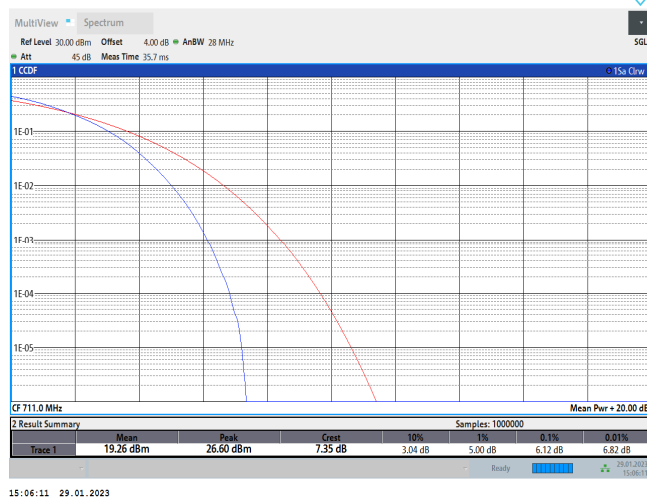


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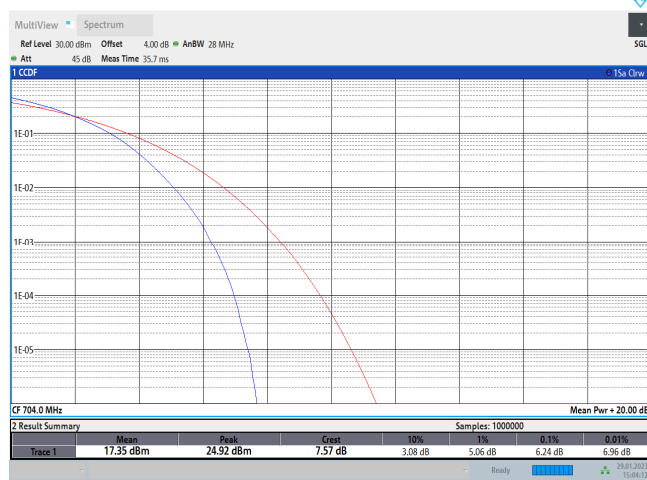
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### Band12-10MHz-64QAM-23130-50RB#0



15:06:11 29.01.2023

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



15:04:12 29.01.2023



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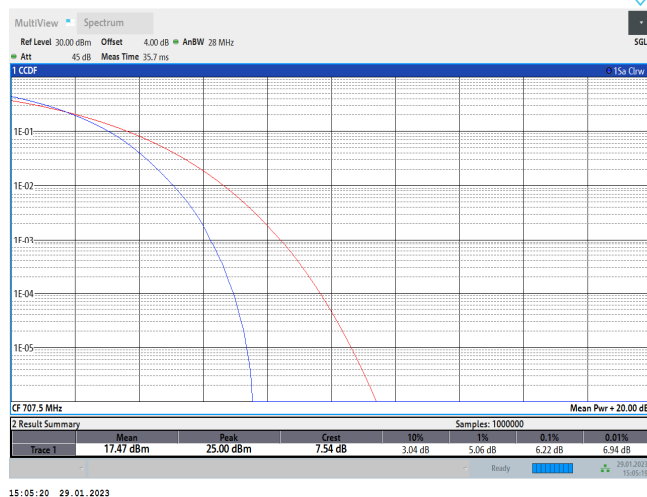
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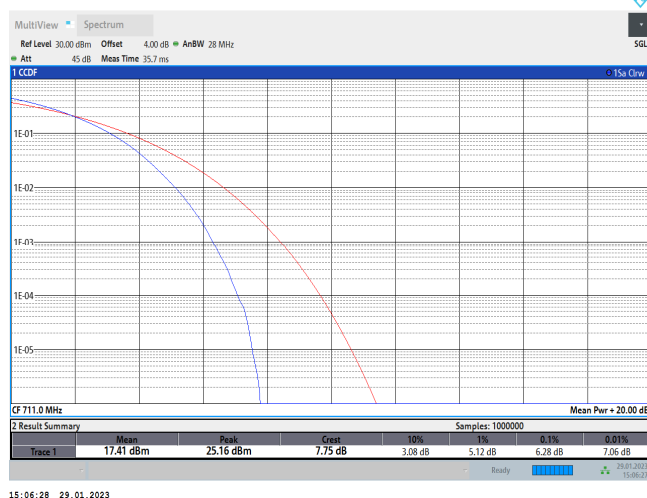
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## Modulation Characteristics

### 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
Band12	10MHz	64QAM	23095	50RB#0	PASS	PASS
Band12	10MHz	256QAM	23095	50RB#0	PASS	PASS



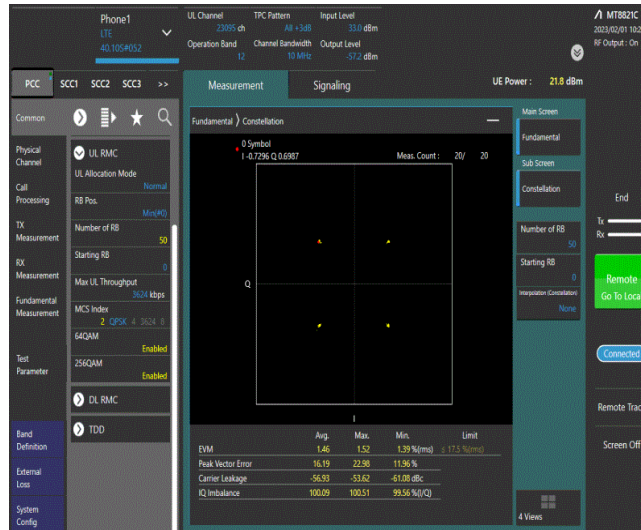
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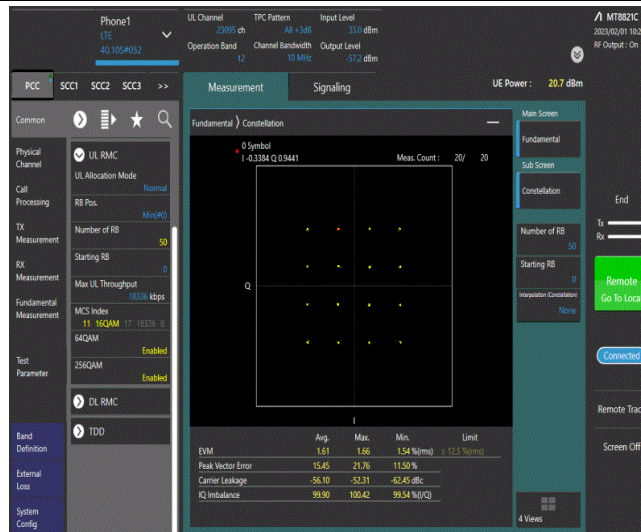
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## Test Graphs

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



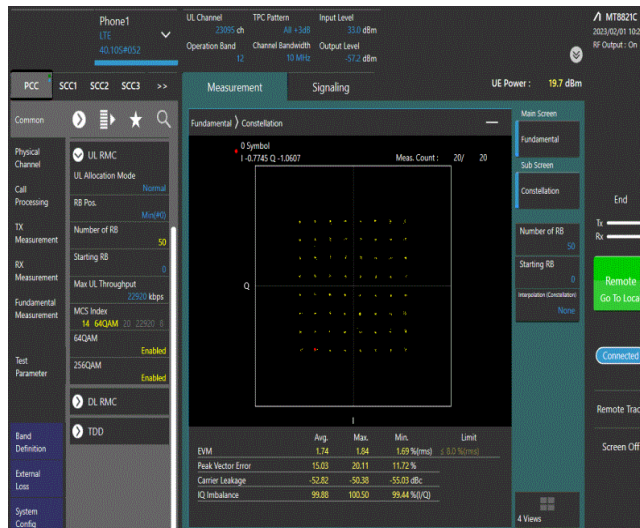
Band12-10MHz-16QAM-23095-50RB#0



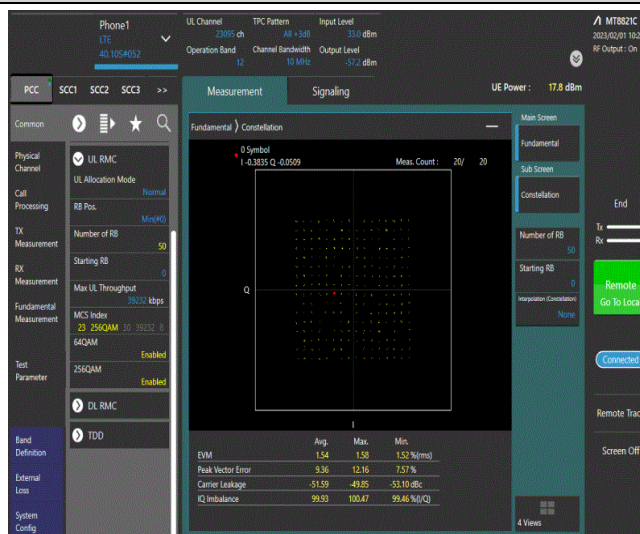


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### Band12-10MHz-64QAM-23095-50RB#0



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



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.091	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.097	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.107	1.29	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.092	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.097	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.093	1.30	PASS
Band12	1.4MHz	64QAM	23017	6RB#0	1.094	1.31	PASS
Band12	1.4MHz	64QAM	23095	6RB#0	1.095	1.31	PASS
Band12	1.4MHz	64QAM	23173	6RB#0	1.098	1.31	PASS
Band12	1.4MHz	256QAM	23017	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	256QAM	23095	6RB#0	1.087	1.28	PASS
Band12	1.4MHz	256QAM	23173	6RB#0	1.086	1.29	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.694	2.94	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.692	2.94	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.688	2.93	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.689	2.93	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.687	2.92	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.682	2.92	PASS
Band12	3MHz	64QAM	23025	15RB#0	2.691	2.92	PASS
Band12	3MHz	64QAM	23095	15RB#0	2.686	2.92	PASS
Band12	3MHz	64QAM	23165	15RB#0	2.687	2.92	PASS
Band12	3MHz	256QAM	23025	15RB#0	2.687	2.93	PASS
Band12	3MHz	256QAM	23095	15RB#0	2.686	2.92	PASS
Band12	3MHz	256QAM	23165	15RB#0	2.683	2.93	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.466	4.86	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.464	4.86	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.458	4.85	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.466	4.83	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.468	4.85	PASS



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Band12	5MHz	16QAM	23155	25RB#0	4.457	4.83	PASS
Band12	5MHz	64QAM	23035	25RB#0	4.471	4.85	PASS
Band12	5MHz	64QAM	23095	25RB#0	4.473	4.86	PASS
Band12	5MHz	64QAM	23155	25RB#0	4.463	4.85	PASS
Band12	5MHz	256QAM	23035	25RB#0	4.47	4.81	PASS
Band12	5MHz	256QAM	23095	25RB#0	4.47	4.82	PASS
Band12	5MHz	256QAM	23155	25RB#0	4.46	4.82	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.927	9.62	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.938	9.60	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.916	9.58	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.915	9.72	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.935	9.70	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.916	9.68	PASS
Band12	10MHz	64QAM	23060	50RB#0	8.92	9.60	PASS
Band12	10MHz	64QAM	23095	50RB#0	8.947	9.66	PASS
Band12	10MHz	64QAM	23130	50RB#0	8.935	9.58	PASS
Band12	10MHz	256QAM	23060	50RB#0	8.924	9.62	PASS
Band12	10MHz	256QAM	23095	50RB#0	8.938	9.66	PASS
Band12	10MHz	256QAM	23130	50RB#0	8.918	9.54	PASS



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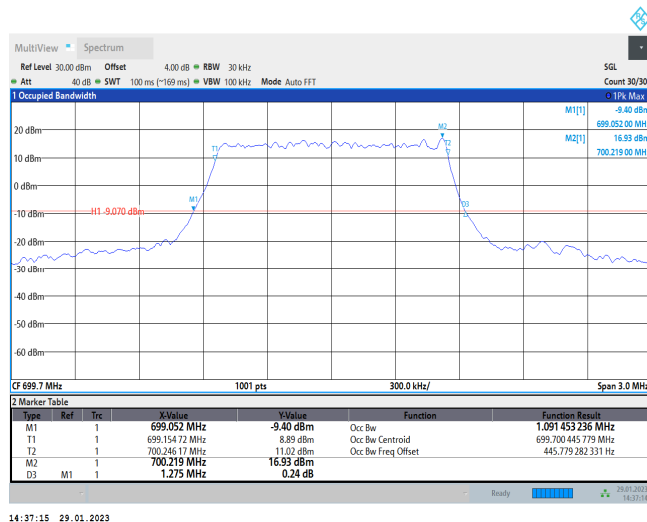
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### Test Graphs

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



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



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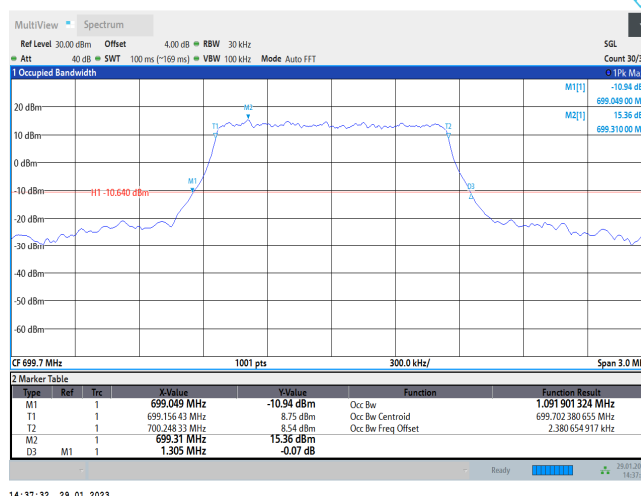
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### Band12-1.4MHz-QPSK-23173-6RB#0



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



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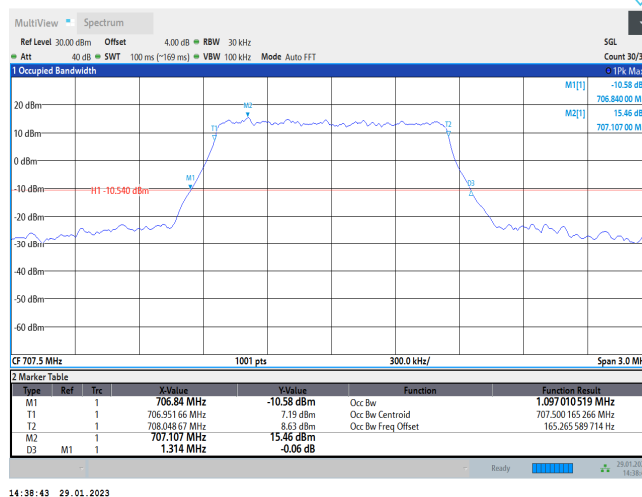
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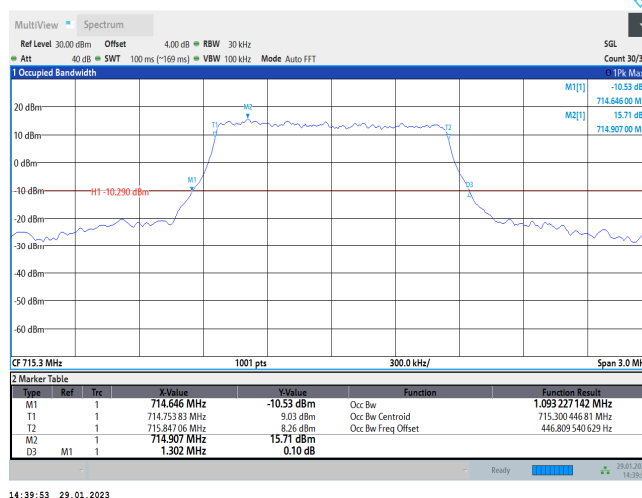
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### Band12-1.4MHz-16QAM-23095-6RB#0



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



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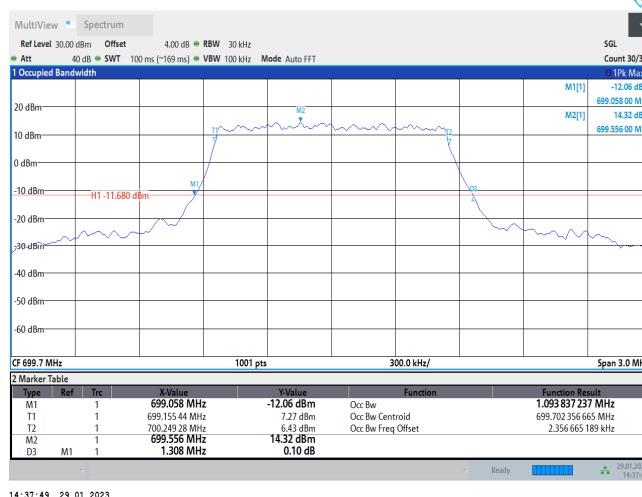
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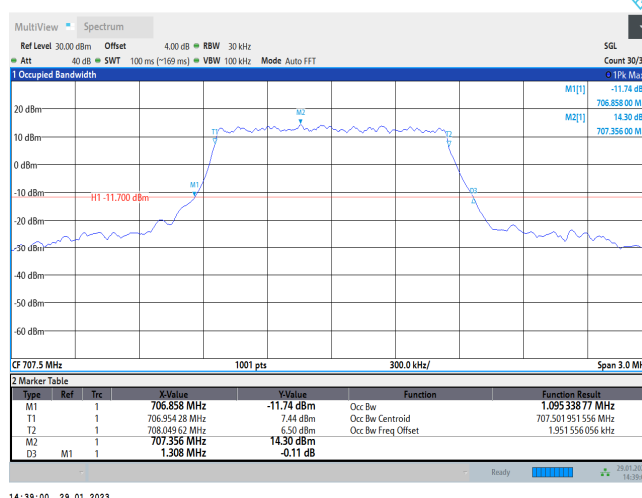
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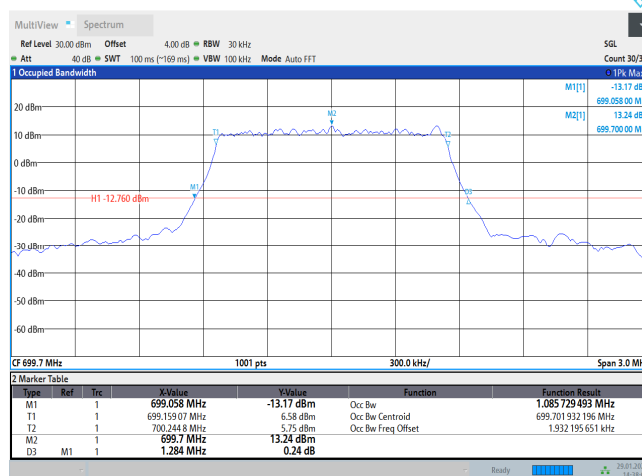
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### Band12-1.4MHz-64QAM-23173-6RB#0



14:40:11 29.01.2023

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



14:38:06 29.01.2023



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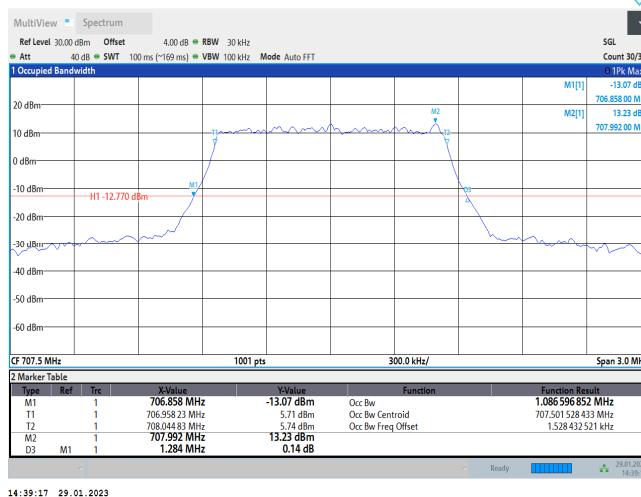


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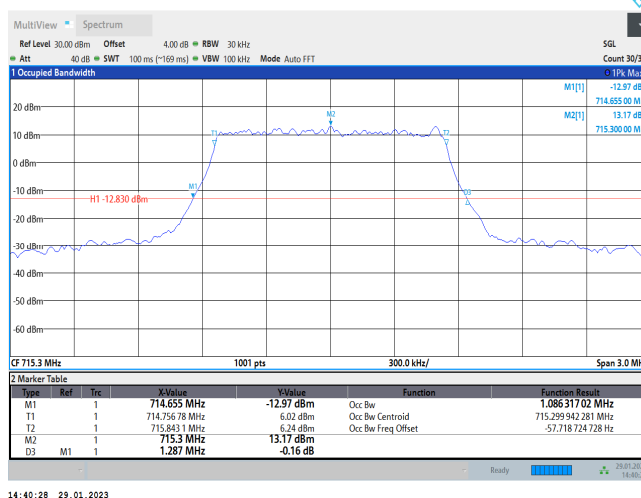
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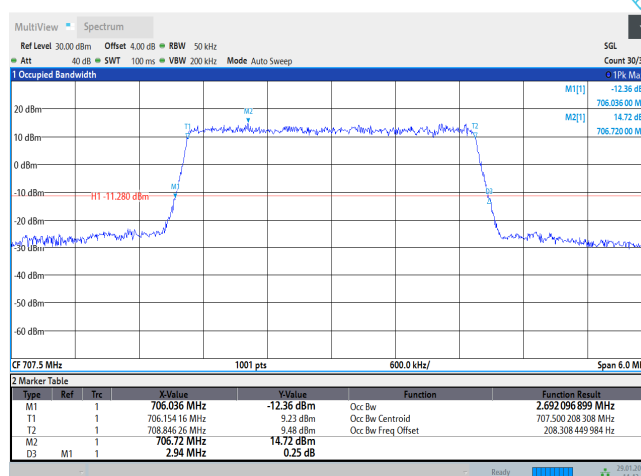
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### Band12-3MHz-QPSK-23025-15RB#0



14:41:00 29.01.2023

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



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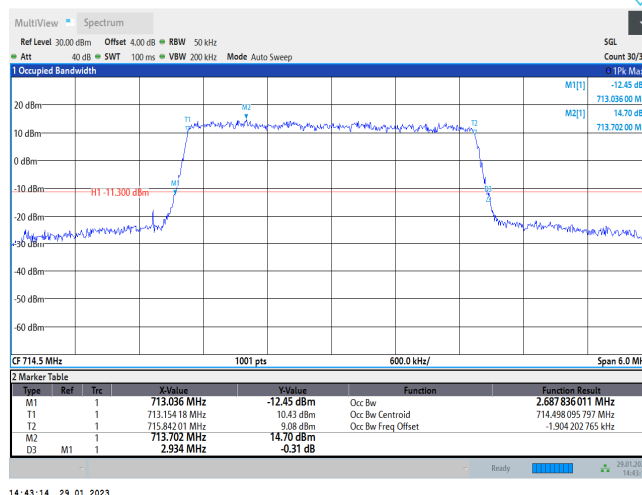
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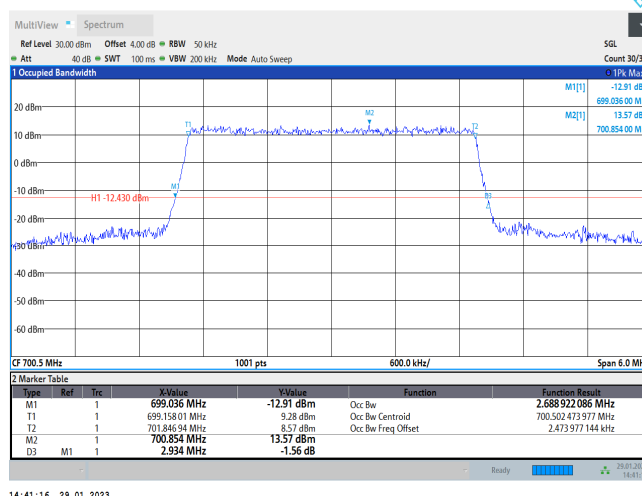
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### Band12-3MHz-QPSK-23165-15RB#0



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



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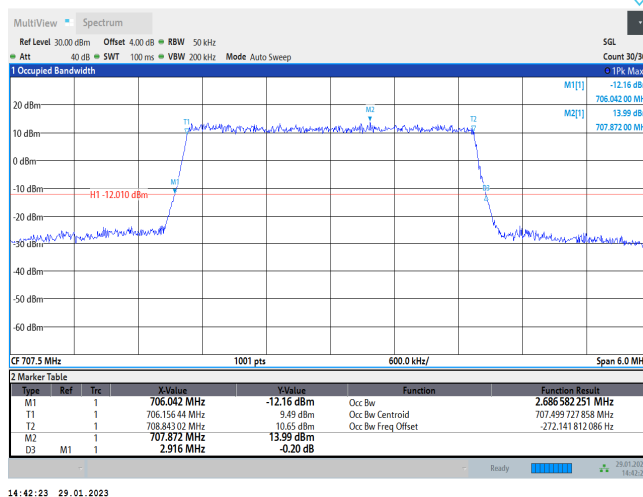
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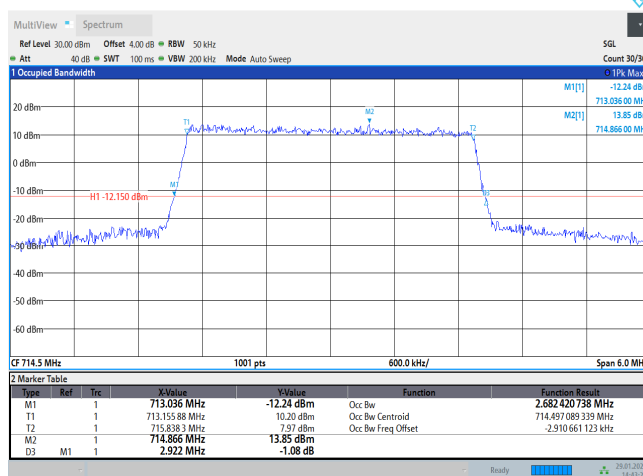
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### Band12-3MHz-16QAM-23095-15RB#0



14:42:23 29.01.2023

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



14:43:30 29.01.2023



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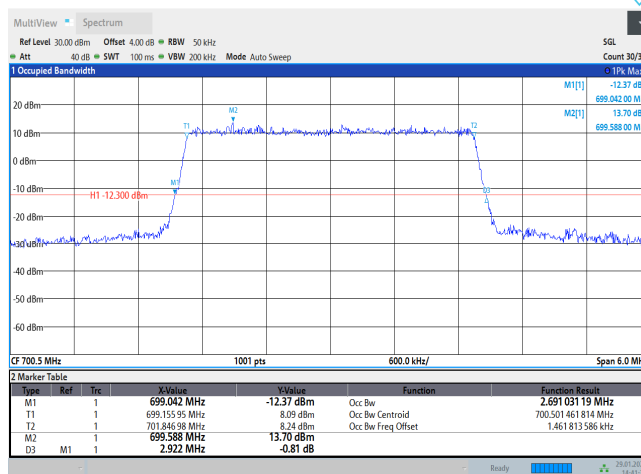
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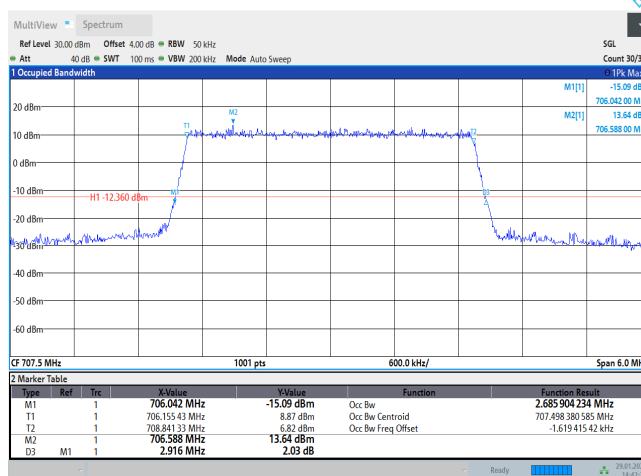
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## Band12-3MHz-64QAM-23025-15RB#0



14:41:32 29.01.2023

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



14:42:39 29.01.2023

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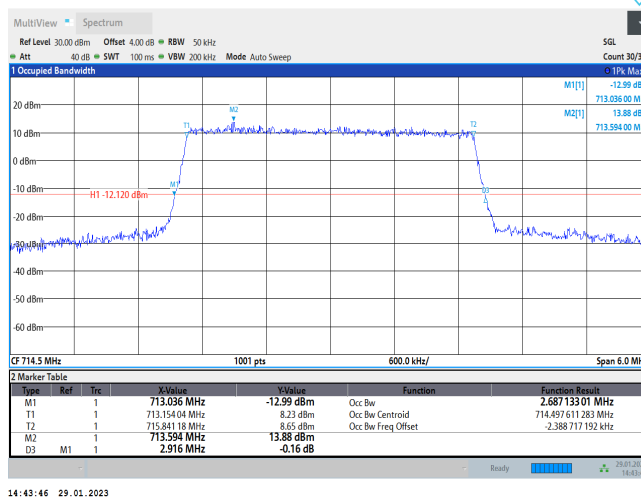
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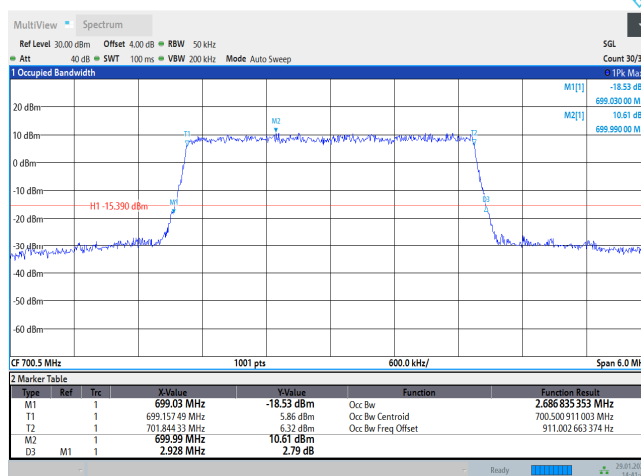
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### Band12-3MHz-64QAM-23165-15RB#0



14:43:46 29.01.2023

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



14:41:48 29.01.2023



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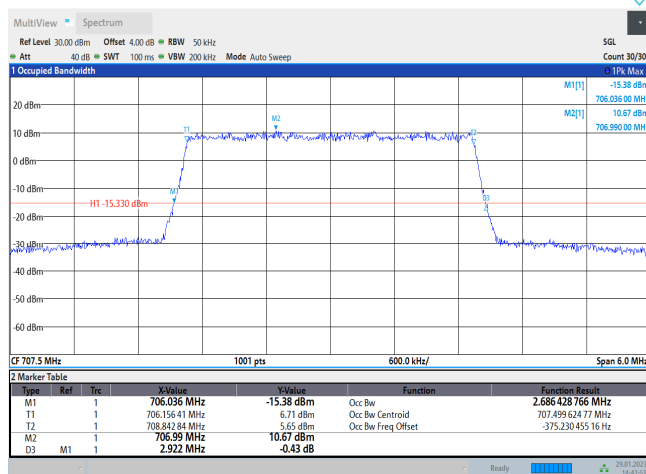
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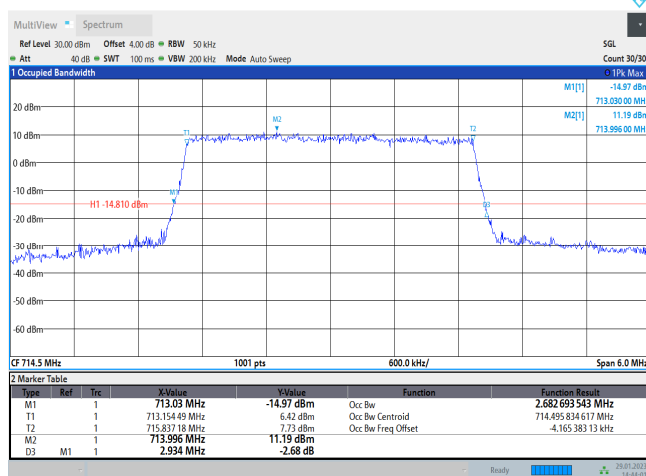
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## Band12-3MHz-256QAM-23095-15RB#0



14:42:55 29.01.2023

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



14:44:02 29.01.2023

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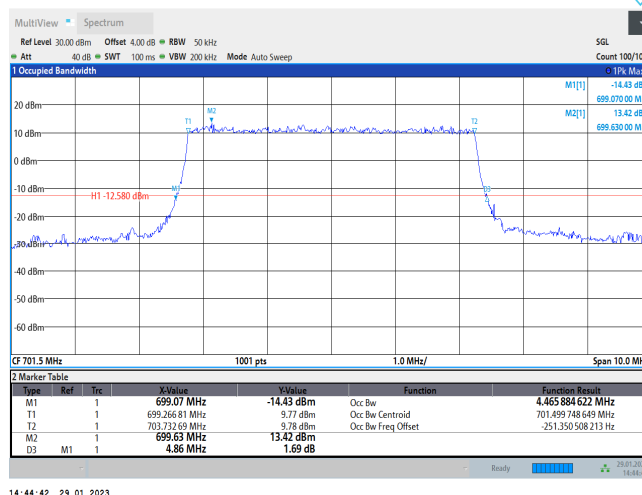
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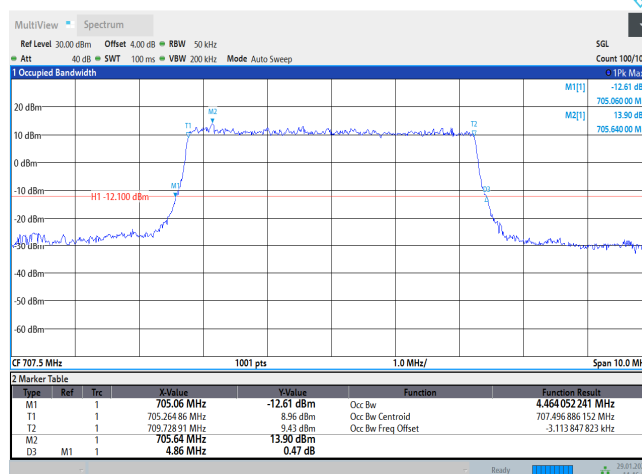
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### Band12-5MHz-QPSK-23035-25RB#0



14:44:42 29.01.2023

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



14:46:17 29.01.2023



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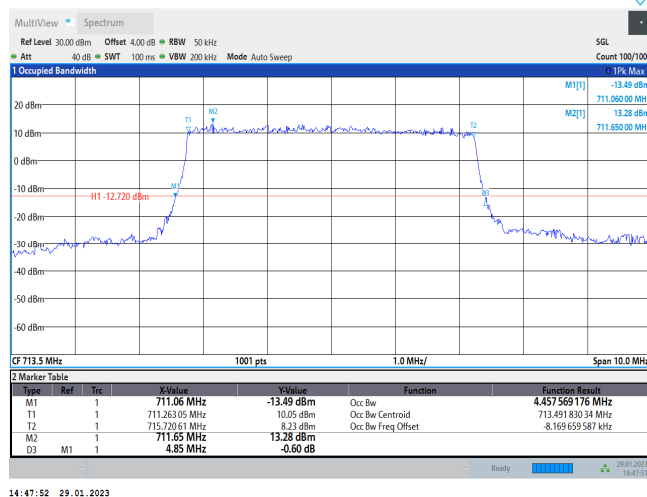
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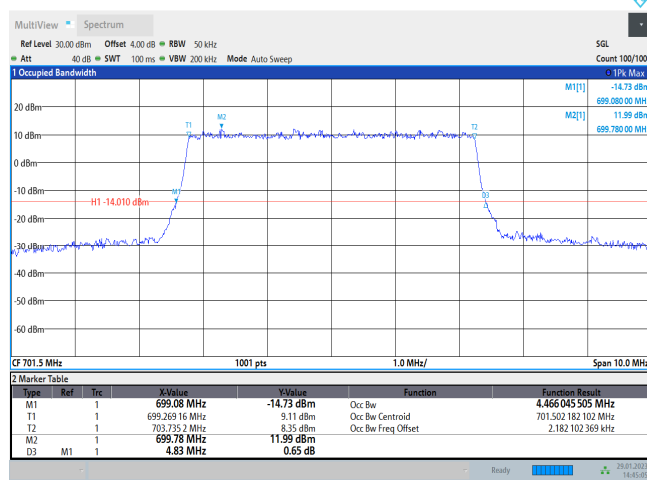
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## Band12-5MHz-QPSK-23155-25RB#0



14:47:52 29.01.2023

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



14:45:05 29.01.2023

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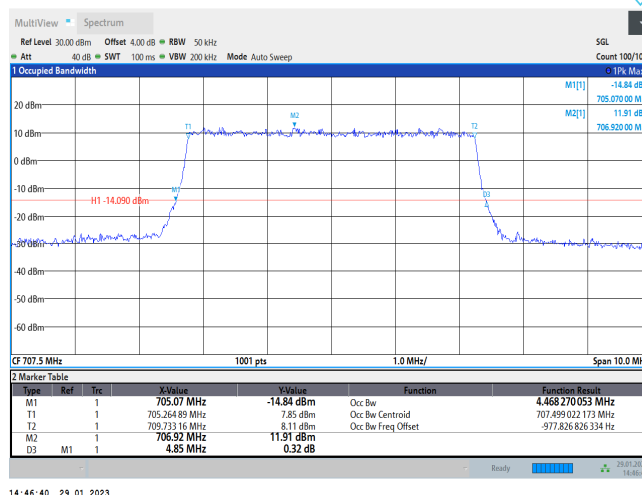
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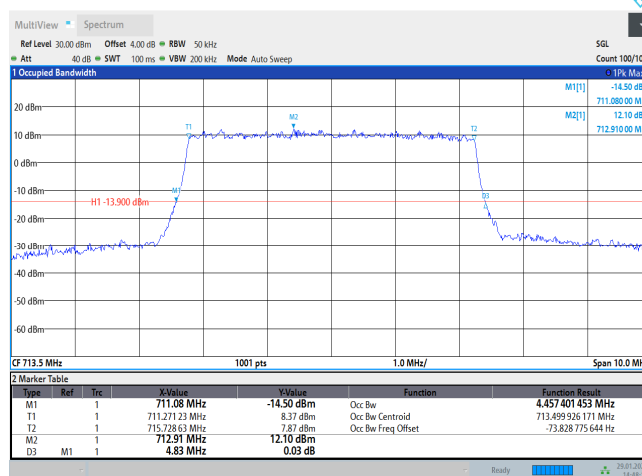
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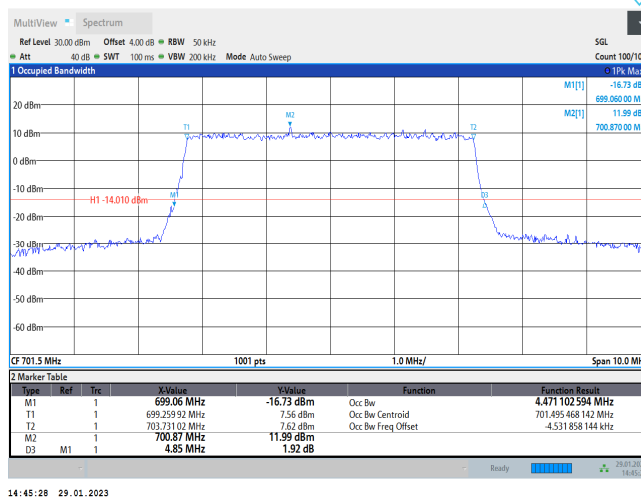
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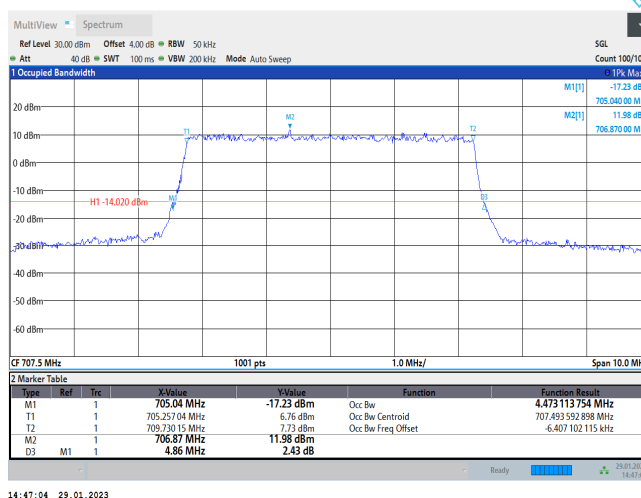


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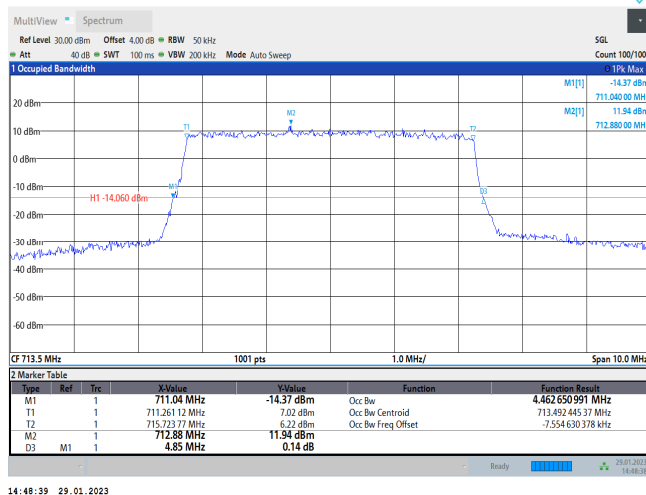
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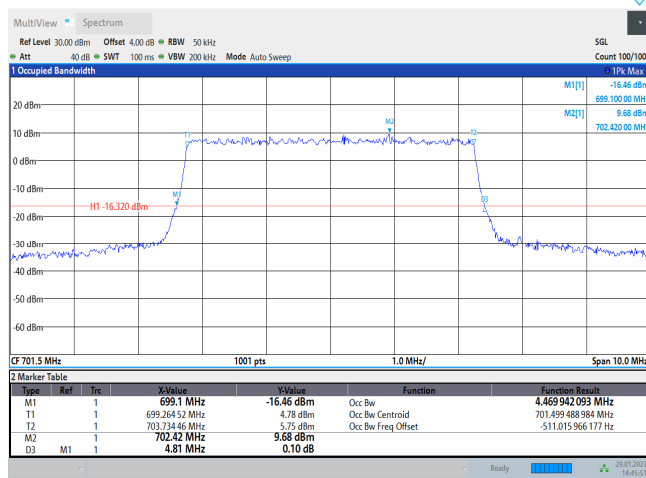
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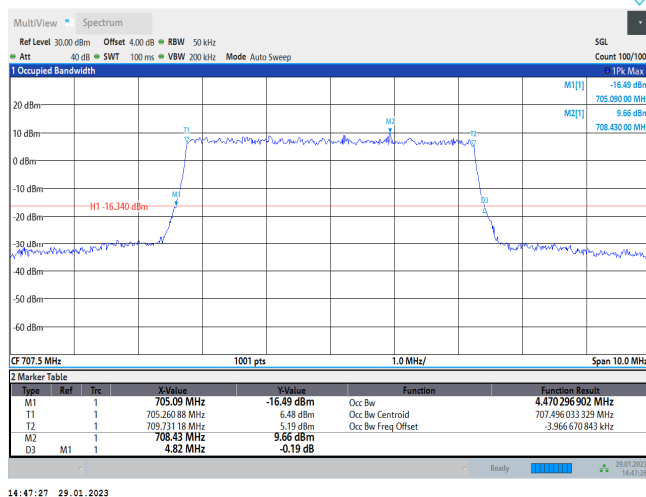
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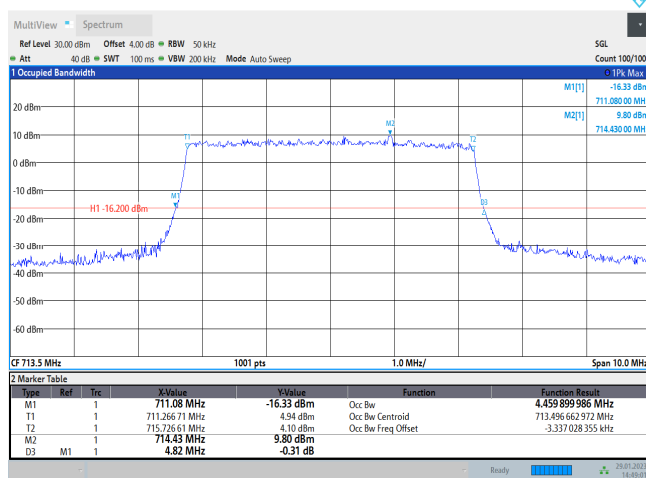
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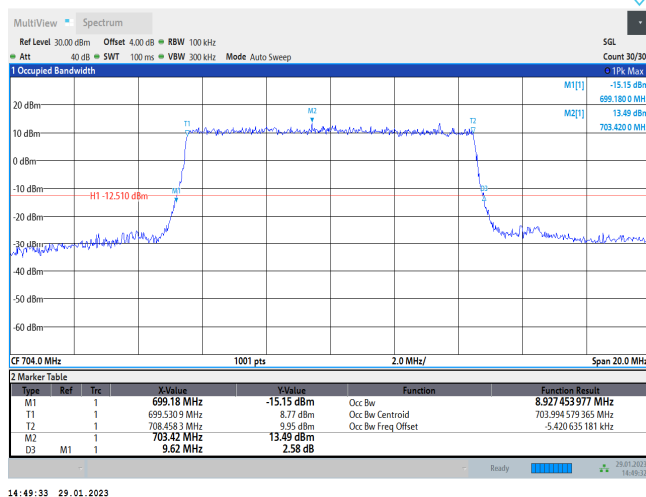
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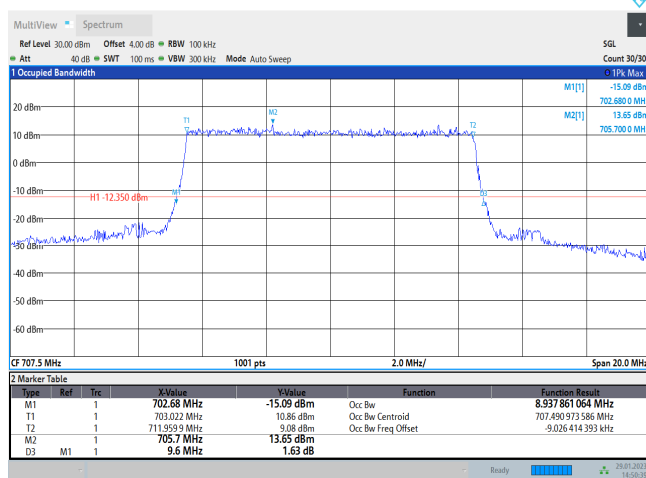
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## Band12-10MHz-QPSK-23060-50RB#0



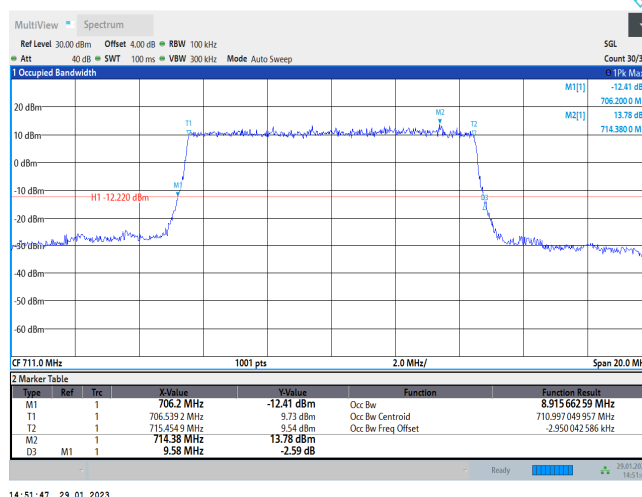
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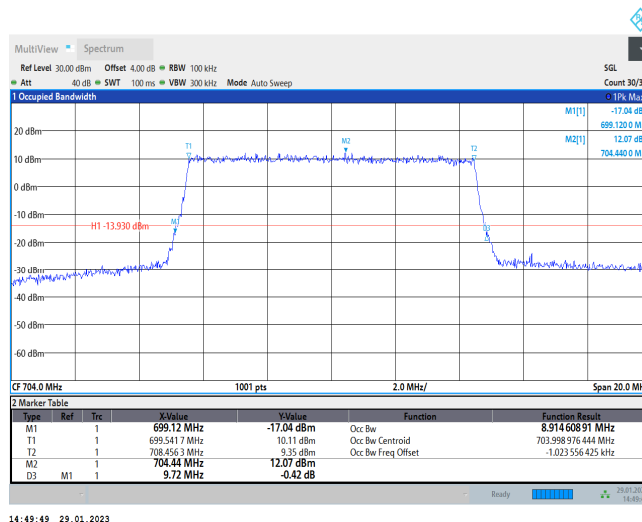


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## Band12-10MHz-16QAM-23060-50RB#0



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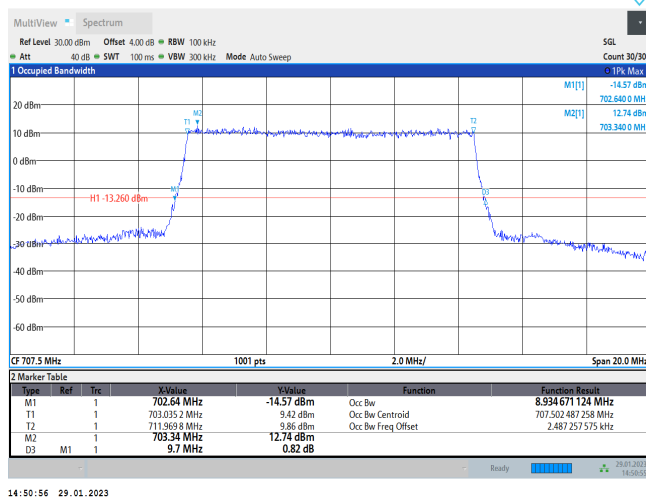
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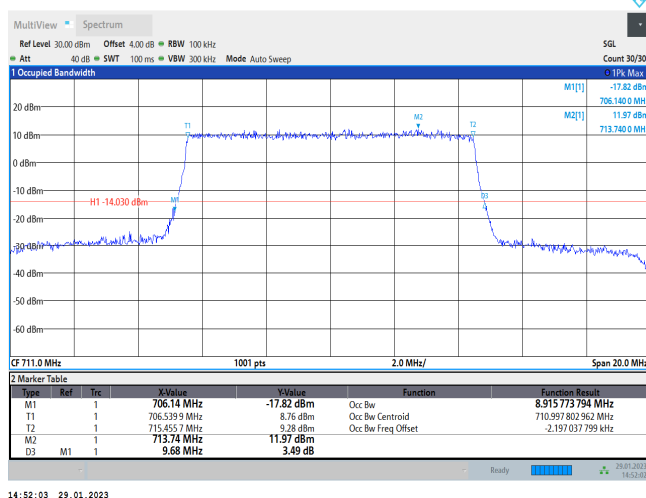


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### Band12-10MHz-16QAM-23130-50RB#0



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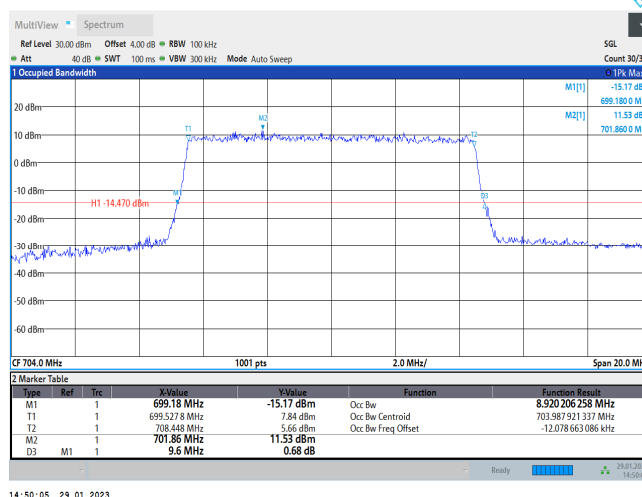
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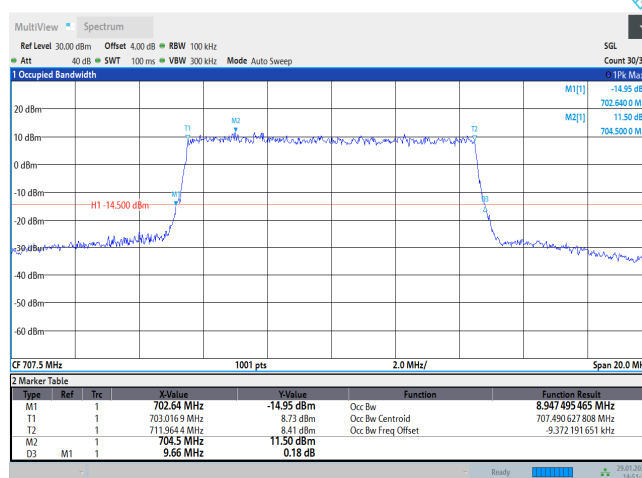
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## Band12-10MHz-64QAM-23060-50RB#0



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



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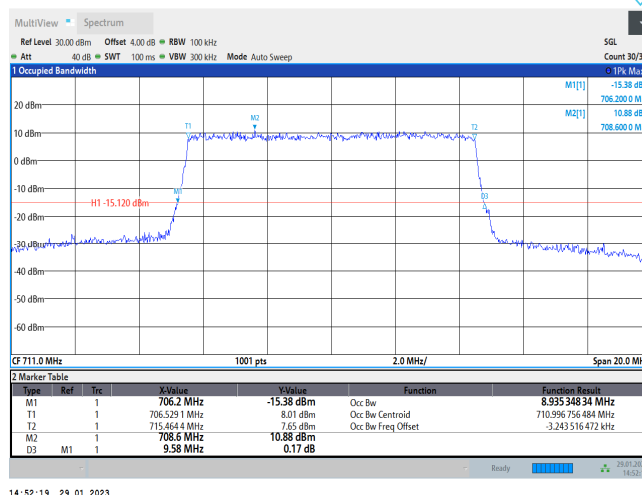
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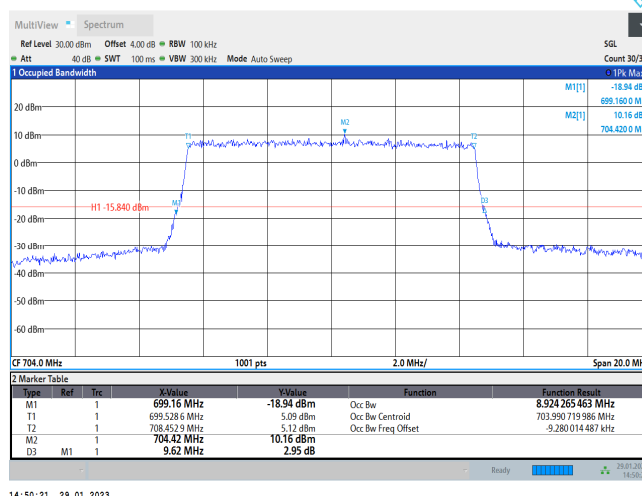
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### Band12-10MHz-64QAM-23130-50RB#0



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



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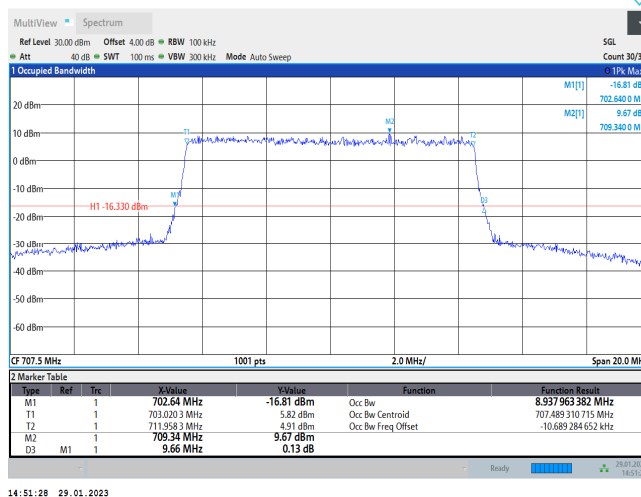
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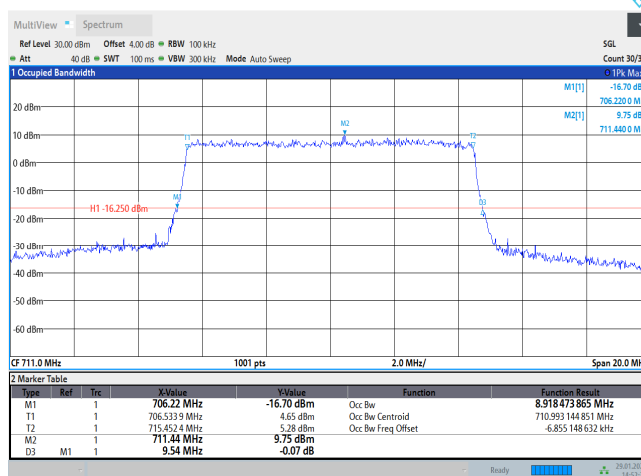
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### Band12-10MHz-256QAM-23095-50RB#0



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



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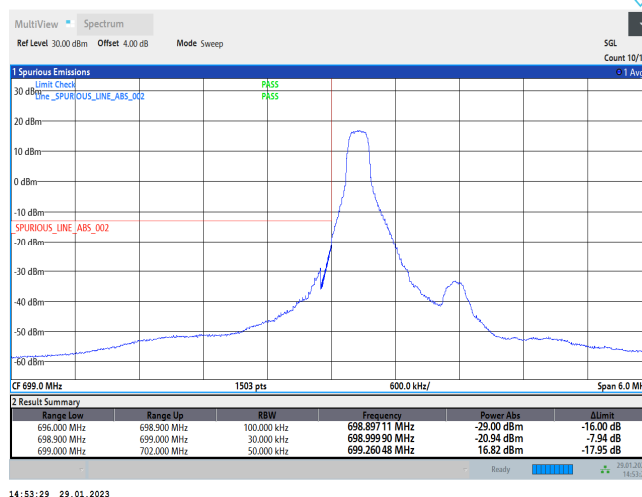
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### Band Edge

### Test Graphs

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



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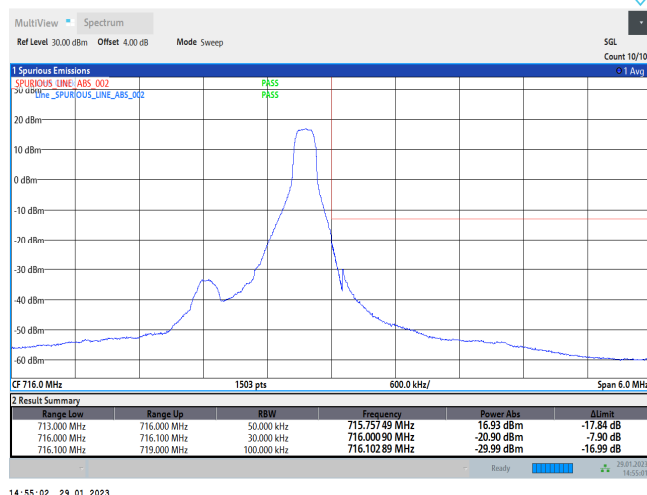


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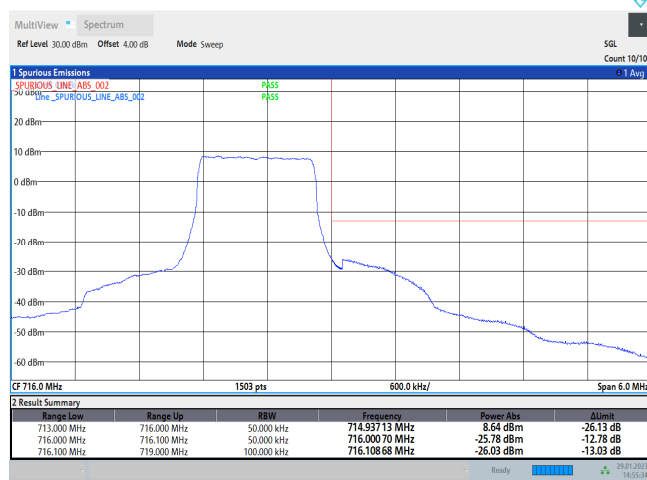
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### Band12-1.4MHz-QPSK-23173-6RB#0



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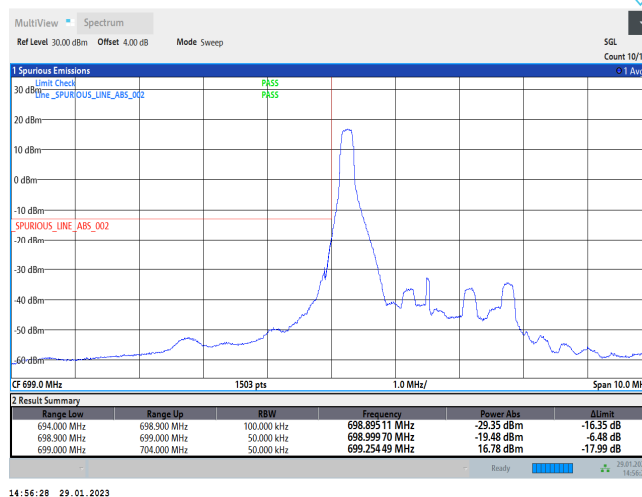
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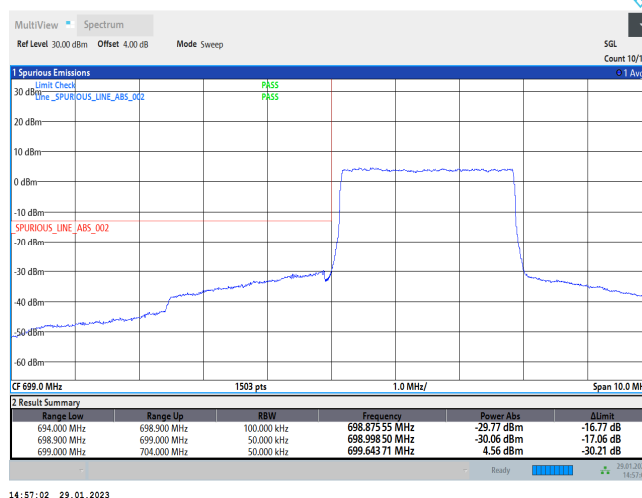
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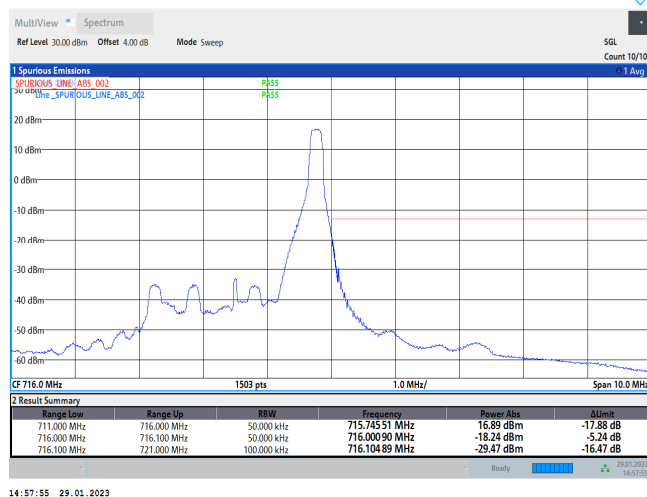
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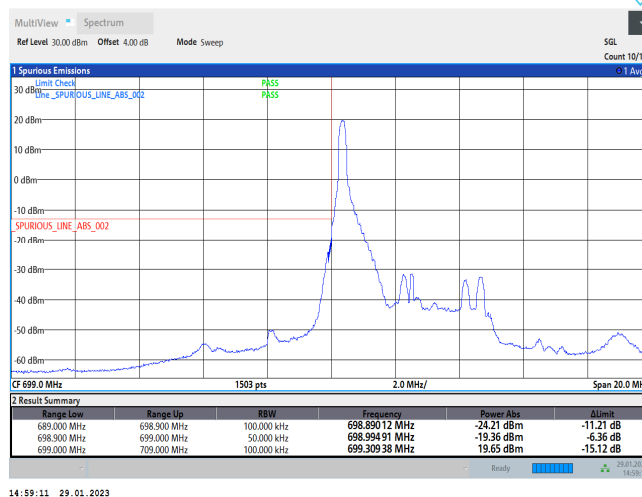
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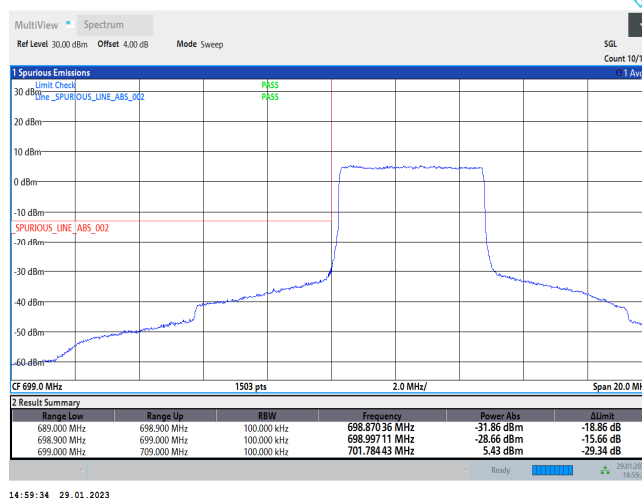
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### Band12-5MHz-QPSK-23035-1RB#0



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



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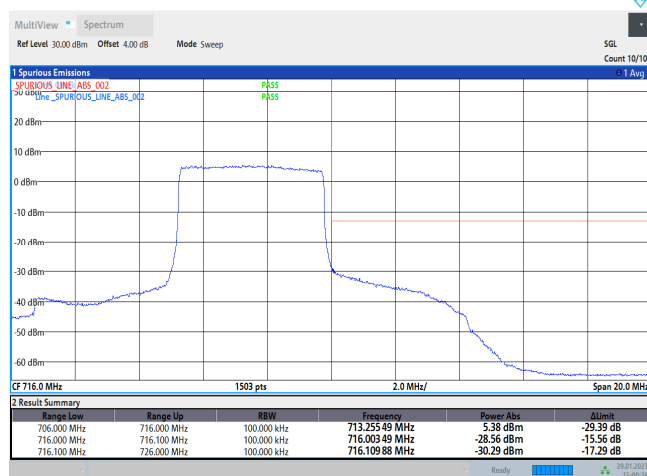
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### Band12-5MHz-QPSK-23155-1RB#24



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



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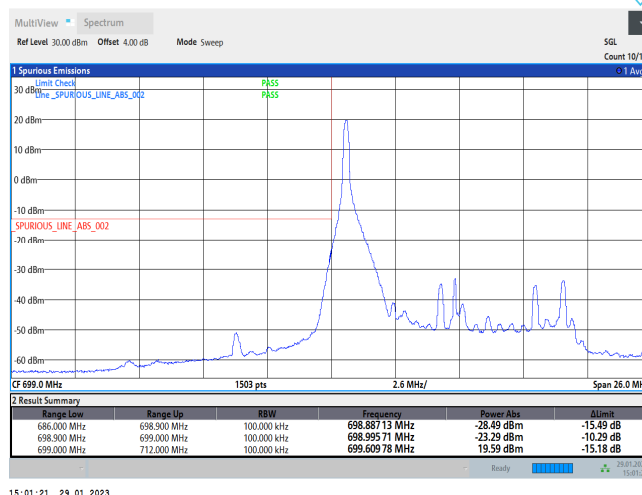


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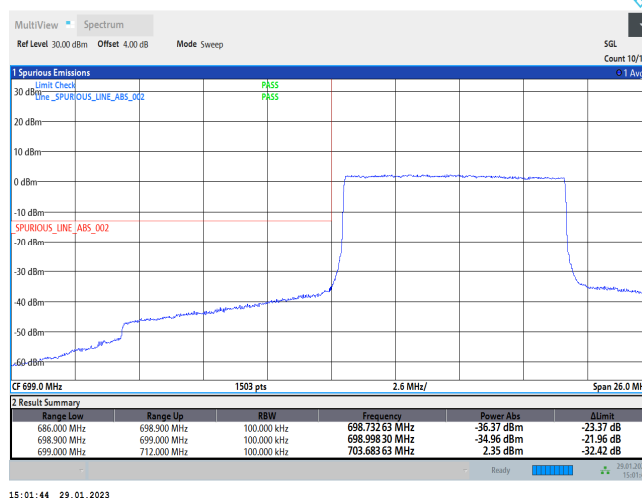
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### Band12-10MHz-QPSK-23060-1RB#0



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



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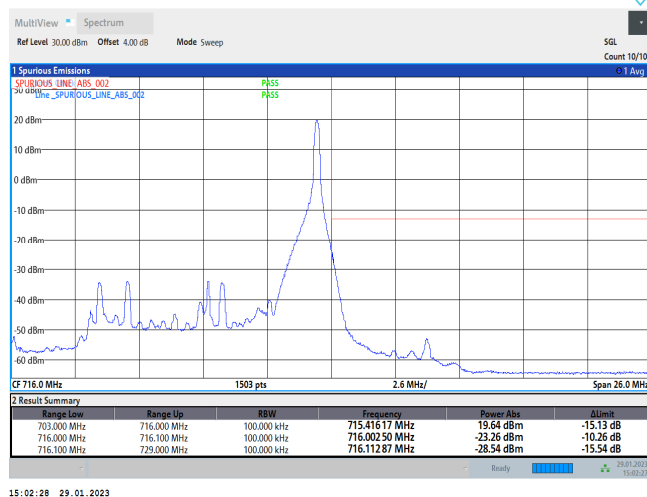
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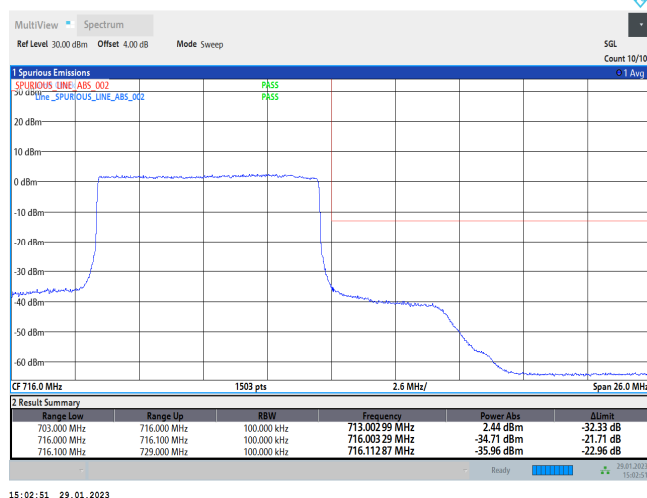
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### Band12-10MHz-QPSK-23130-1RB#49



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



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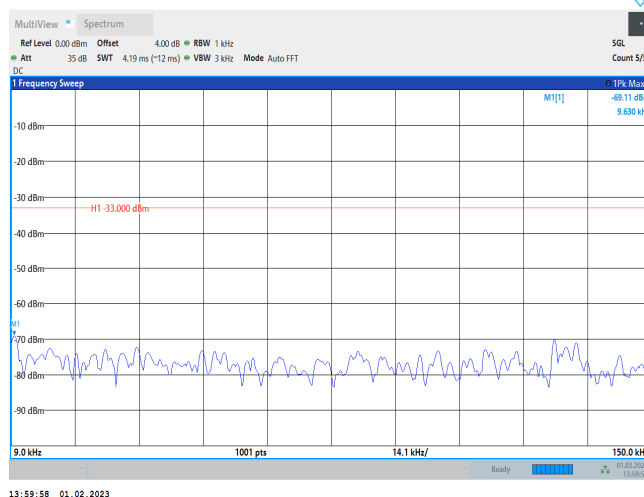
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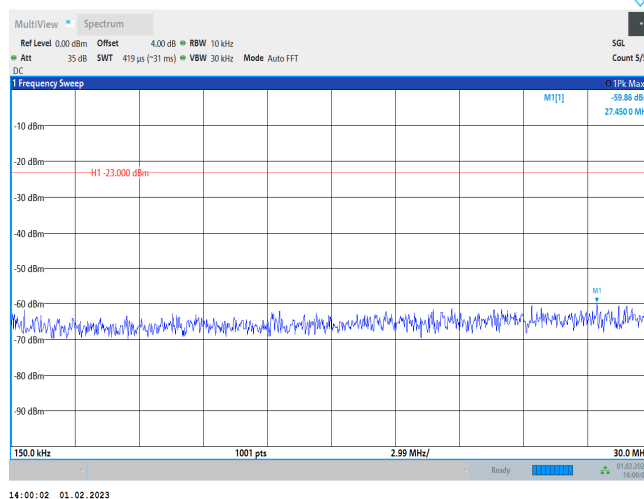
## Conducted Spurious Emission

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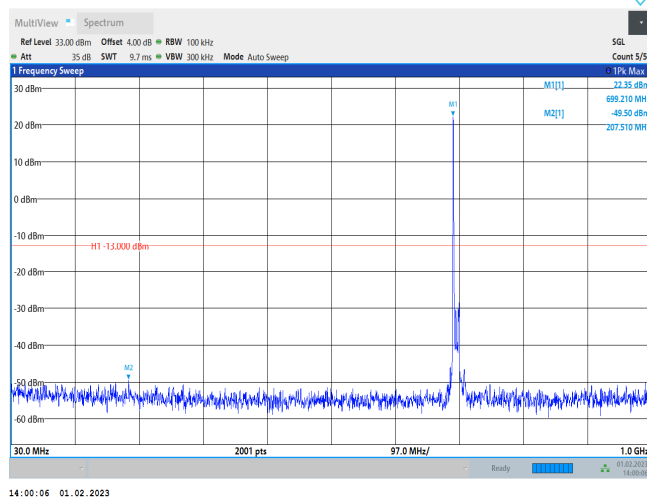
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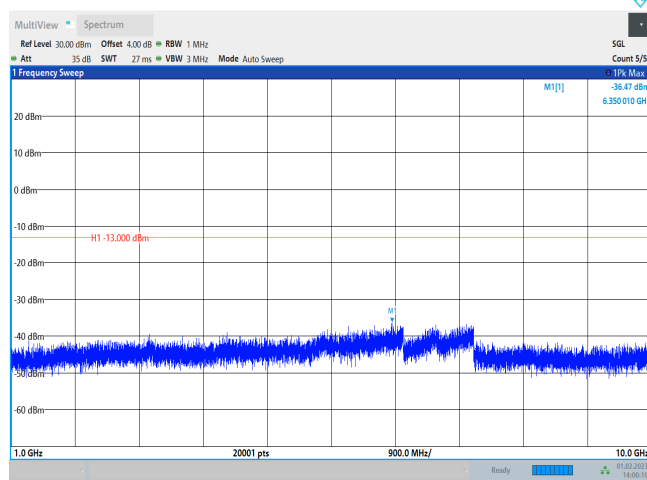
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### Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



14:00:06 01.02.2023

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



14:00:10 01.02.2023



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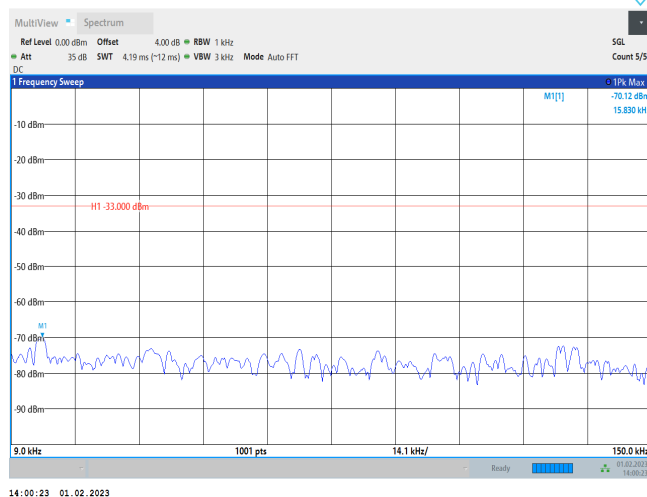
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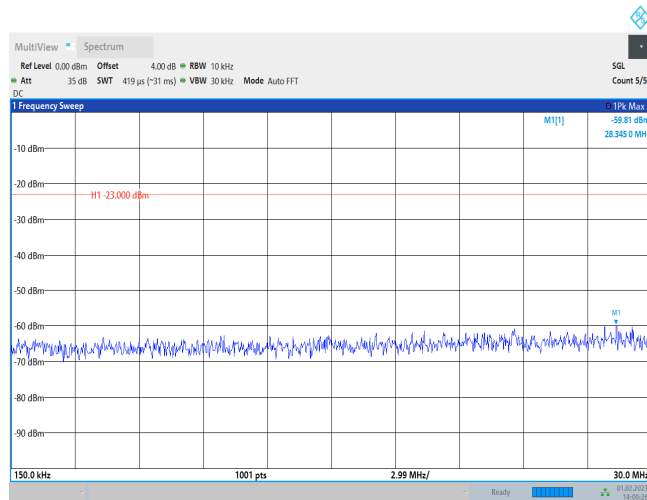
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### Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



14:00:23 01.02.2023

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



14:00:27 01.02.2023



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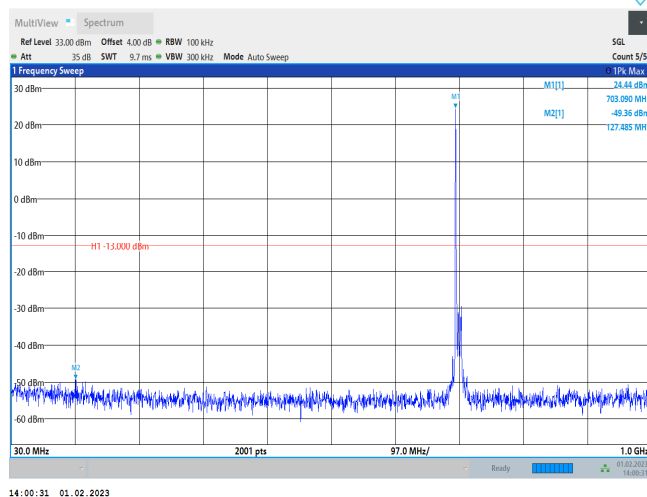


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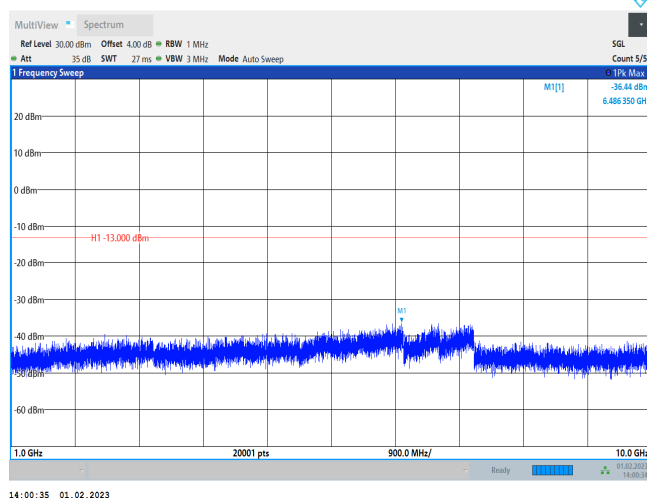
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### Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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



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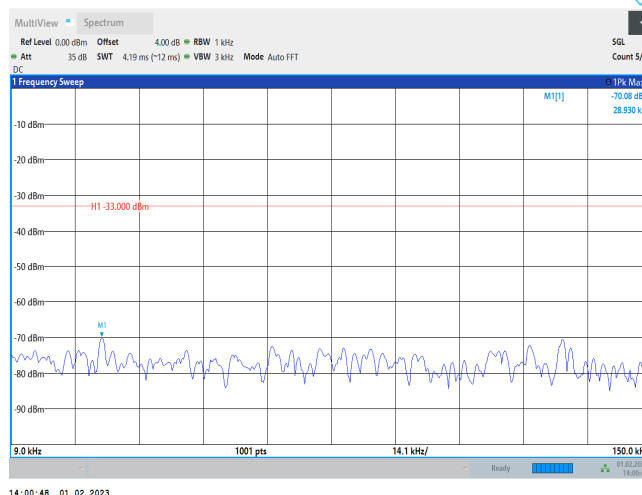
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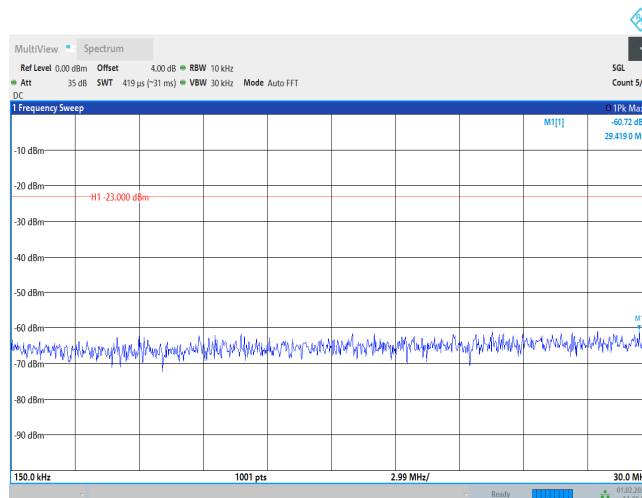
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### Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



14:00:48 01.02.2023

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



14:00:52 01.02.2023



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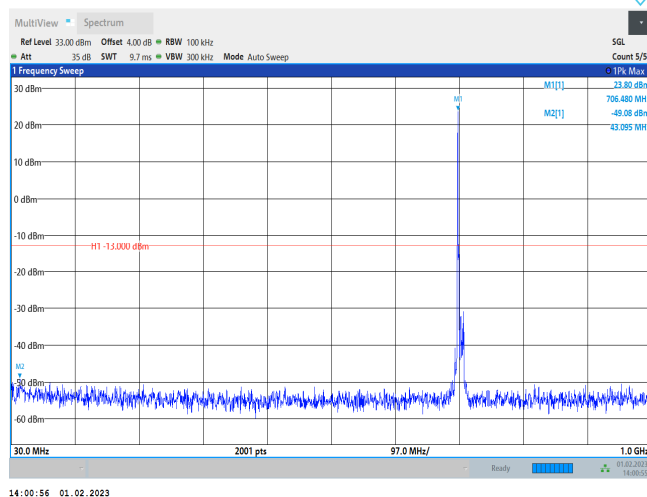
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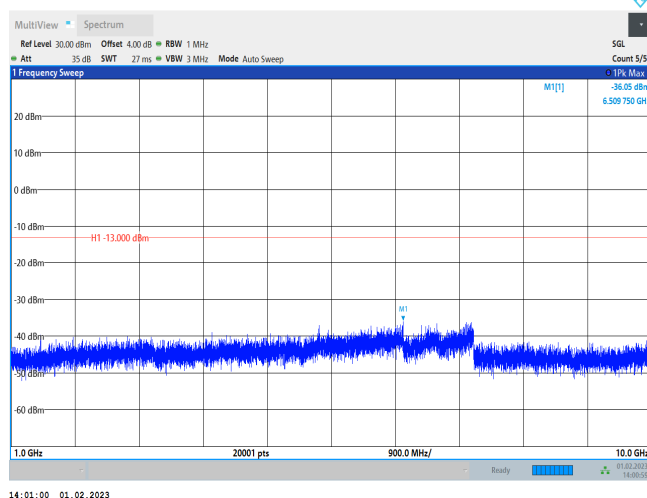
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### Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

**Test Band = LTE Band12\_10MHz\_TM1**
**Test Channel = Low**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	43.38	-48.00	25.62	-74.26	-13.00	61.26	245	357	Horizontal
2	2098.7700	42.32	-47.71	26.99	-73.67	-13.00	60.67	142	123	Horizontal
3	2798.3600	42.55	-46.92	28.48	-71.15	-13.00	58.15	159	97	Horizontal
4	3497.9500	42.39	-46.54	29.52	-69.89	-13.00	56.89	186	176	Horizontal
5	4197.5400	40.87	-45.96	31.10	-69.25	-13.00	56.25	172	42	Horizontal
6	4897.1300	42.14	-45.58	32.59	-66.11	-13.00	53.11	133	242	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	43.64	-48.00	25.62	-74.00	-13.00	61.00	248	116	Vertical
2	2098.7700	42.43	-47.71	26.99	-73.56	-13.00	60.56	179	171	Vertical
3	2798.3600	42.43	-46.92	28.48	-71.27	-13.00	58.27	194	3	Vertical
4	3497.9500	42.55	-46.54	29.52	-69.73	-13.00	56.73	155	63	Vertical
5	4197.5400	40.89	-45.96	31.10	-69.23	-13.00	56.23	221	350	Vertical
6	4897.1300	41.98	-45.58	32.59	-66.27	-13.00	53.27	203	3	Vertical



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**Test Band = LTE Band12\_10MHz\_ TM1**
**Test Channel = Mid**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	43.96	-48.02	25.61	-73.71	-13.00	60.71	274	227	Horizontal
2	2109.2700	42.62	-47.71	27.02	-73.32	-13.00	60.32	146	268	Horizontal
3	2812.3600	42.58	-46.88	28.53	-71.02	-13.00	58.02	235	28	Horizontal
4	3515.4500	42.04	-46.51	29.53	-70.19	-13.00	57.19	192	268	Horizontal
5	4218.5400	40.63	-45.93	31.14	-69.42	-13.00	56.42	185	4	Horizontal
6	4921.6300	41.39	-45.63	32.66	-66.84	-13.00	53.84	170	201	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	43.50	-48.02	25.61	-74.17	-13.00	61.17	254	302	Vertical
2	2109.2700	42.69	-47.71	27.02	-73.25	-13.00	60.25	176	360	Vertical
3	2812.3600	42.18	-46.88	28.53	-71.42	-13.00	58.42	133	170	Vertical
4	3515.4500	41.96	-46.51	29.53	-70.27	-13.00	57.27	259	79	Vertical
5	4218.5400	41.24	-45.93	31.14	-68.81	-13.00	55.81	148	358	Vertical
6	4921.6300	41.36	-45.63	32.66	-66.87	-13.00	53.87	172	276	Vertical



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**Test Band = LTE Band12\_10MHz\_TM1**
**Test Channel = High**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	44.29	-48.04	25.60	-73.41	-13.00	60.41	148	107	Horizontal
2	2119.7700	42.54	-47.70	27.06	-73.36	-13.00	60.36	195	41	Horizontal
3	2826.3600	42.84	-46.83	28.60	-70.65	-13.00	57.65	174	28	Horizontal
4	3532.9500	41.75	-46.47	29.55	-70.43	-13.00	57.43	153	28	Horizontal
5	4239.5400	41.00	-45.89	31.18	-68.97	-13.00	55.97	261	107	Horizontal
6	4946.1300	40.84	-45.69	32.73	-67.38	-13.00	54.38	184	94	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	43.56	-48.04	25.60	-74.14	-13.00	61.14	174	173	Vertical
2	2119.7700	43.06	-47.70	27.06	-72.84	-13.00	59.84	221	252	Vertical
3	2826.3600	42.83	-46.83	28.60	-70.66	-13.00	57.66	148	360	Vertical
4	3532.9500	41.72	-46.47	29.55	-70.46	-13.00	57.46	156	198	Vertical
5	4239.5400	40.88	-45.89	31.18	-69.09	-13.00	56.09	238	252	Vertical
6	4946.1300	41.13	-45.69	32.73	-67.09	-13.00	54.09	192	360	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## 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	-1.00	-0.001413	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	2.60	0.003675	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	-3.20	-0.004523	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	2.10	0.002968	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-6.60	-0.009329	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-3.90	-0.005512	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	1.50	0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	2.10	0.002968	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	2.70	0.003816	PASS

---End of Attachment---



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