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Appendix



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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	24.36	21.31	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	24.56	21.51	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	24.51	21.46	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	23.55	20.5	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	24.62	21.57	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	24.78	21.73	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	24.64	21.59	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	23.73	20.68	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	24.62	21.57	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	24.78	21.73	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	24.65	21.6	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	23.76	20.71	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	23.54	20.49	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.77	20.72	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.84	20.79	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	22.63	19.58	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.83	20.78	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	24.1	21.05	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.8	20.75	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	22.8	19.75	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.88	20.83	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	24.07	21.02	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.92	20.87	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	22.85	19.8	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	24.44	21.39	34.77	PASS



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Band12	3MHz	QPSK	23025	1RB#8	24.62	21.57	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	24.66	21.61	34.77	PASS
Band12	3MHz	QPSK	23025	15RB#0	23.64	20.59	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	24.72	21.67	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	24.71	21.66	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	24.69	21.64	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	23.72	20.67	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	24.68	21.63	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	24.68	21.63	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	24.64	21.59	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	23.72	20.67	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	23.62	20.57	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.8	20.75	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.81	20.76	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	22.64	19.59	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.95	20.9	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.9	20.85	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.87	20.82	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	22.7	19.65	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.86	20.81	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	24	20.95	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	23.83	20.78	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	22.71	19.66	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	24.35	21.3	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	24.81	21.76	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	24.58	21.53	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	23.67	20.62	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	24.63	21.58	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	24.85	21.8	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	24.55	21.5	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	23.7	20.65	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	24.61	21.56	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	24.87	21.82	34.77	PASS



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Band12	5MHz	QPSK	23155	1RB#24	24.56	21.51	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	23.74	20.69	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.6	20.55	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	24.01	20.96	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.7	20.65	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.67	19.62	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.79	20.74	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	24.18	21.13	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.82	20.77	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	22.71	19.66	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	23.9	20.85	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	24.1	21.05	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.89	20.84	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.73	19.68	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.52	21.47	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	24.82	21.77	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	24.65	21.6	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.74	20.69	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.66	21.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	24.84	21.79	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.66	21.61	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.78	20.73	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.71	21.66	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	24.81	21.76	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	24.66	21.61	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.78	20.73	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.85	20.8	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	24.08	21.03	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.92	20.87	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	22.76	19.71	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.9	20.85	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	24.08	21.03	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.84	20.79	34.77	PASS



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Band12	10MHz	16QAM	23095	50RB#0	22.77	19.72	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	24	20.95	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	24.06	21.01	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.95	20.9	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.77	19.72	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	5.40	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.42	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.42	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.18	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.20	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.18	13	PASS



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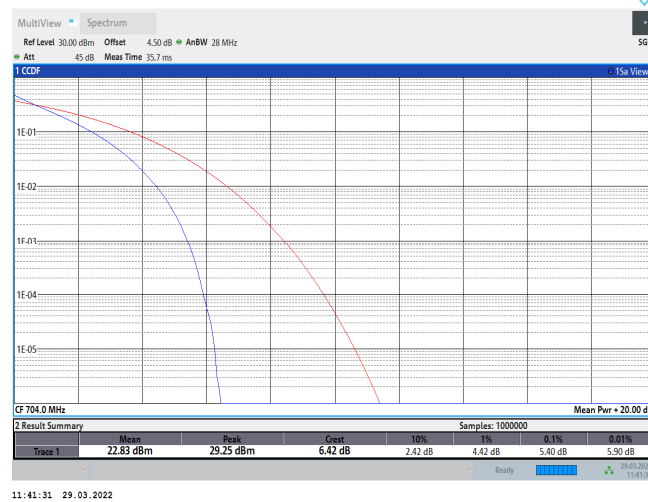
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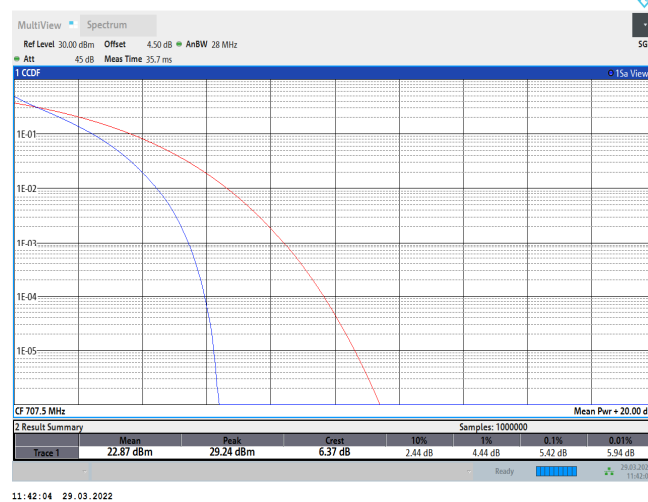
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Test Graphs

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



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



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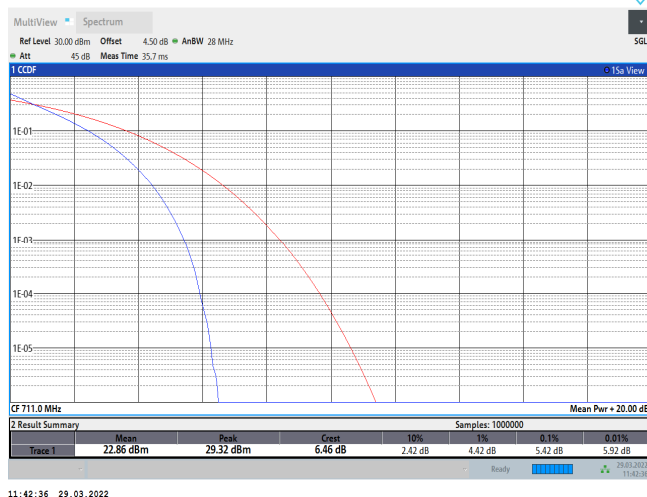
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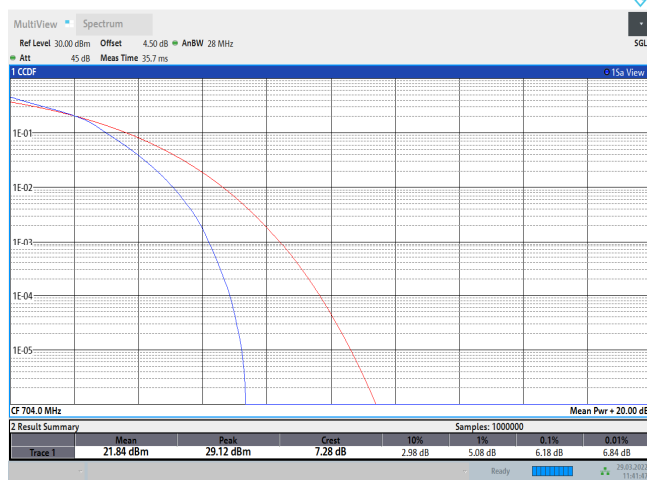
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Band12-10MHz-QPSK-23130-50RB#0



11:42:36 29.03.2022

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



11:41:47 29.03.2022



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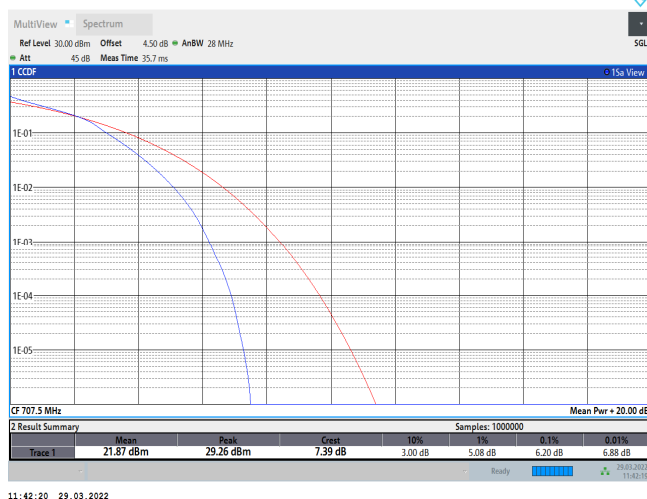
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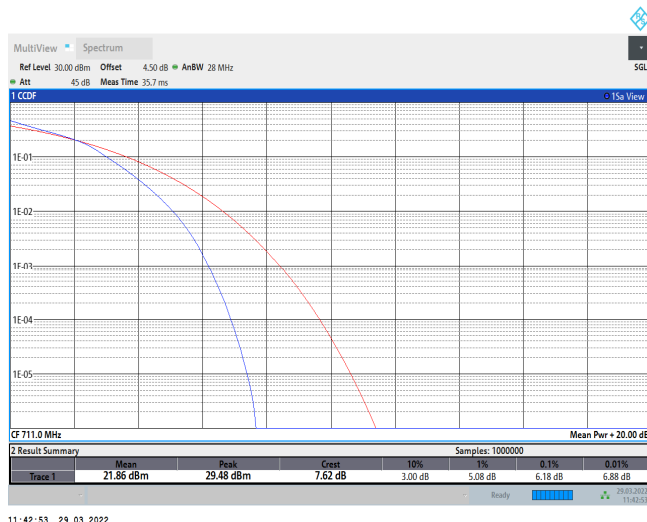
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Band12-10MHz-16QAM-23095-50RB#0



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



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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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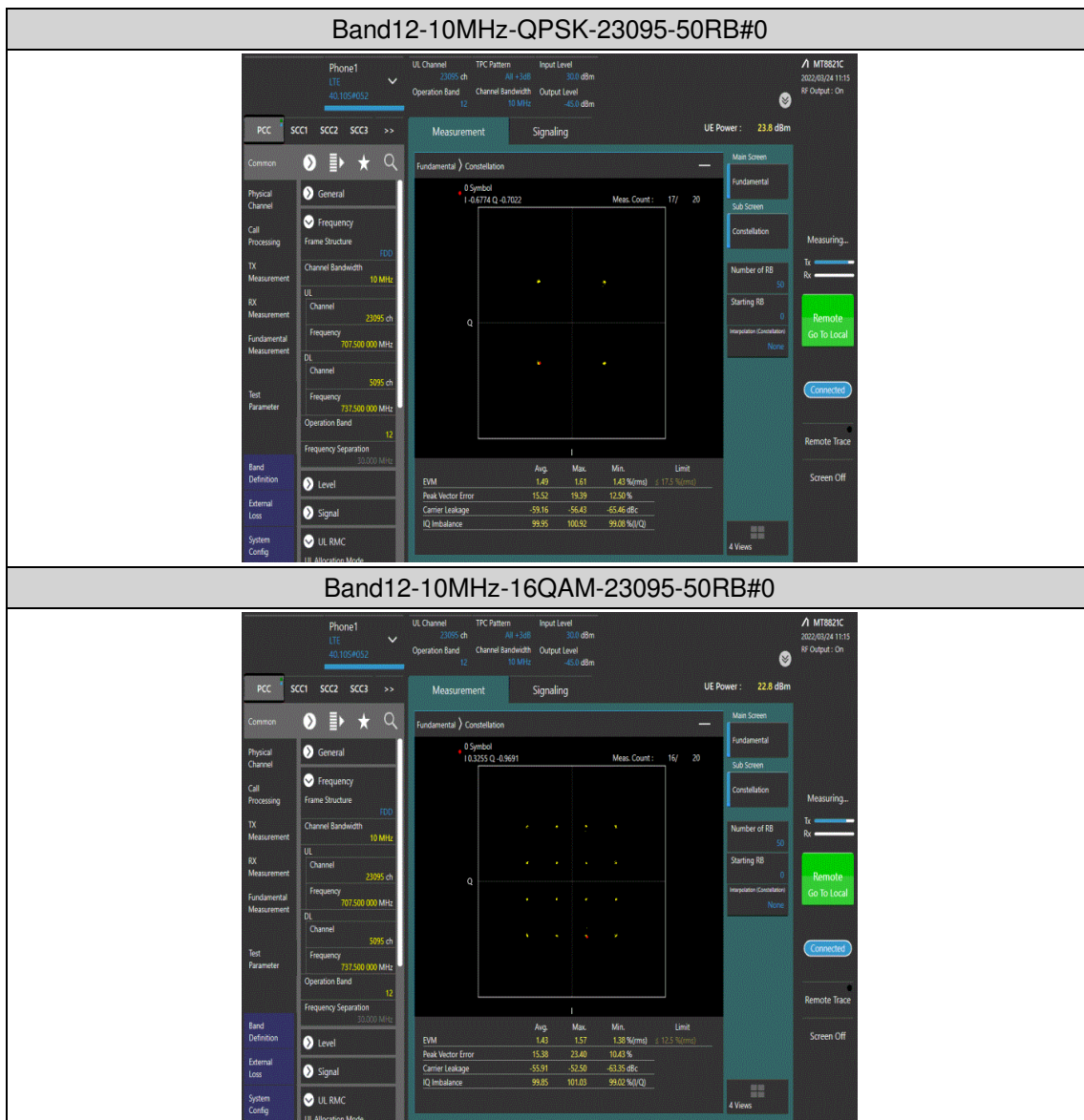
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Test Graphs



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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	1.085	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.085	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.29	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.31	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.097	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.681	2.89	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.688	2.90	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.685	2.91	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.68	2.91	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.676	2.92	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.679	2.91	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.472	5.01	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.475	5.02	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.475	5.04	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.465	5.01	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.473	5.04	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.468	5.05	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.929	9.86	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.942	9.86	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.937	9.82	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.922	9.86	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.923	9.76	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.926	9.76	PASS



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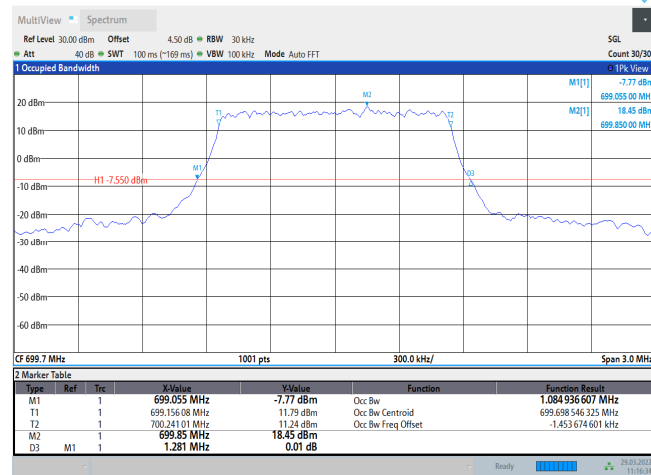
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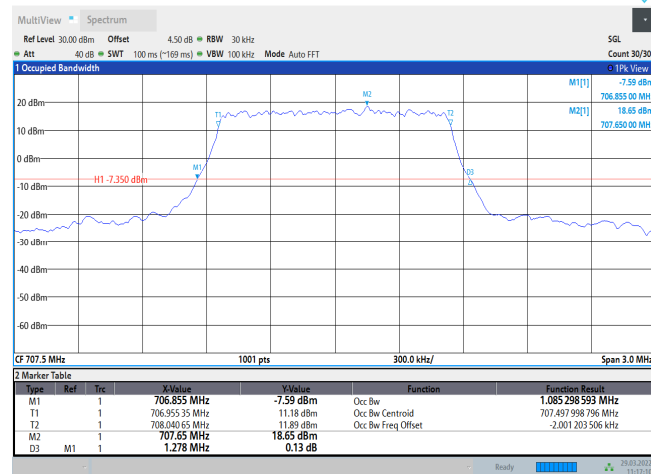
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Test Graphs

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



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



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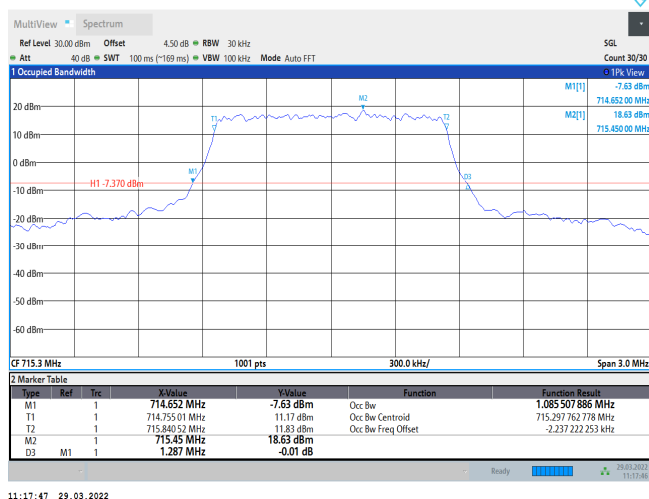
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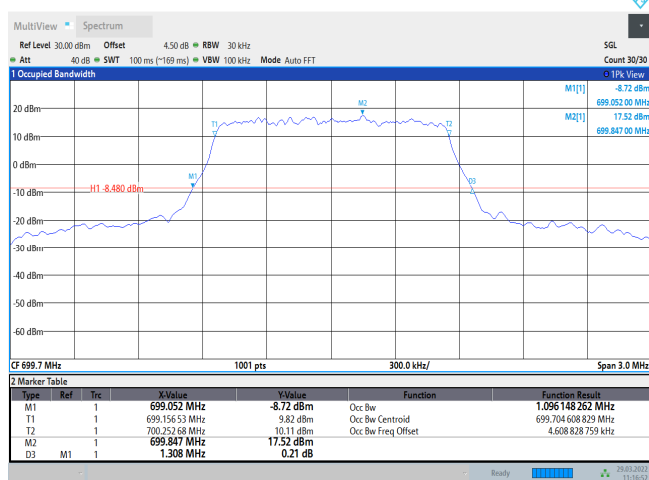
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Band12-1.4MHz-16QAM-23017-6RB#0



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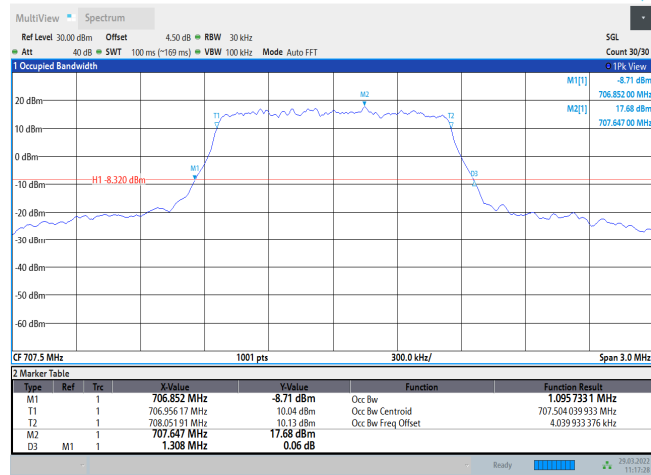
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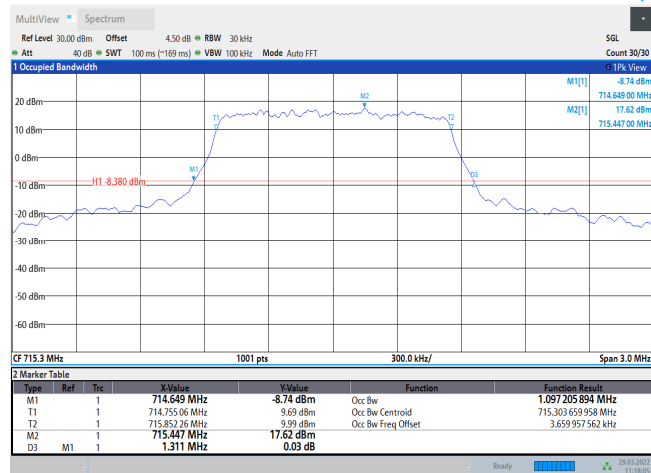
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Band12-1.4MHz-16QAM-23173-6RB#0



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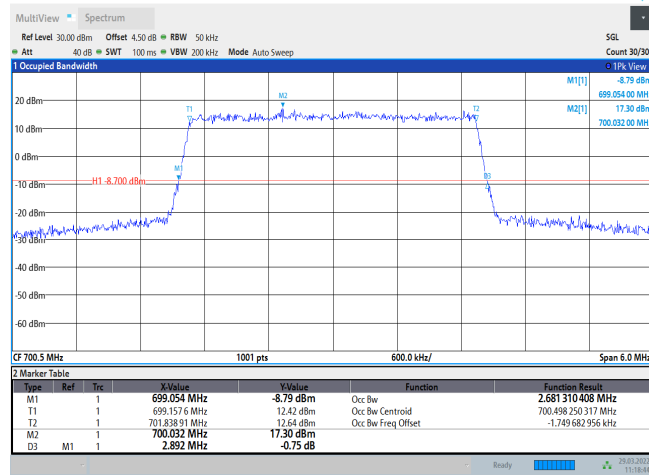
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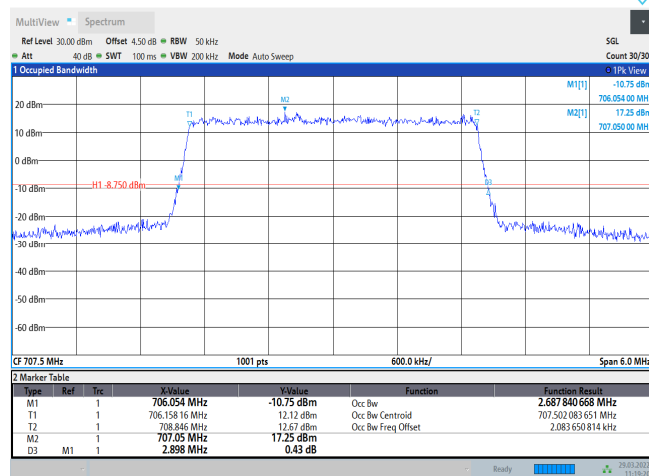
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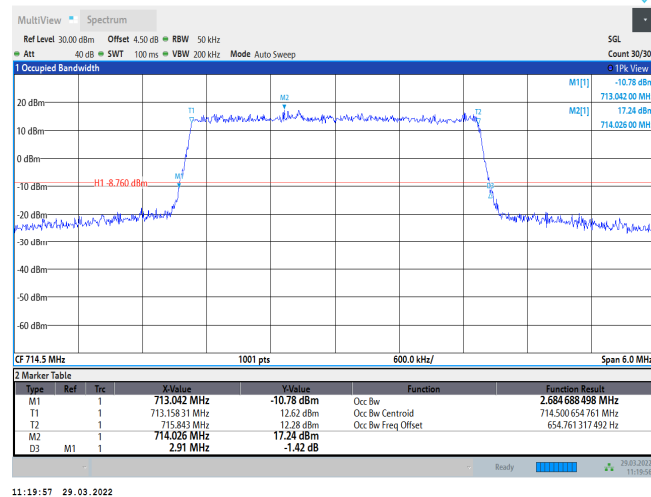
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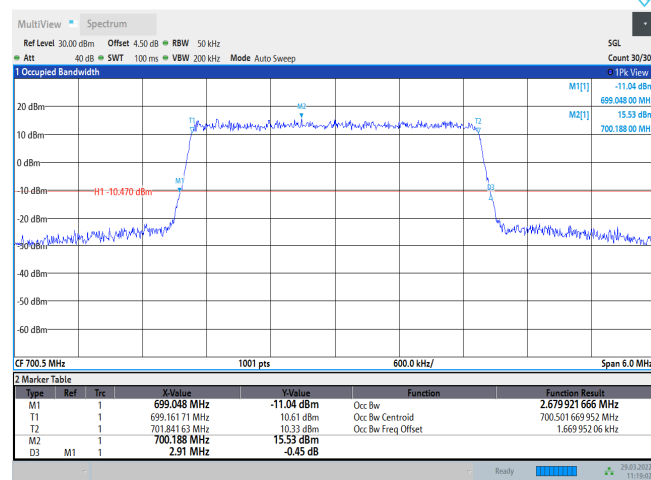
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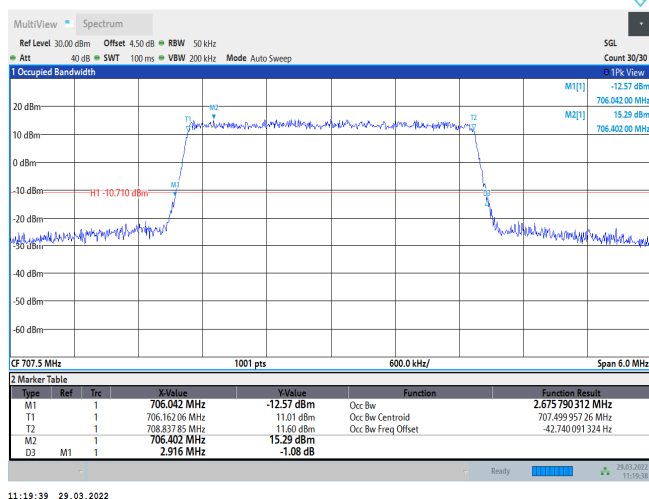
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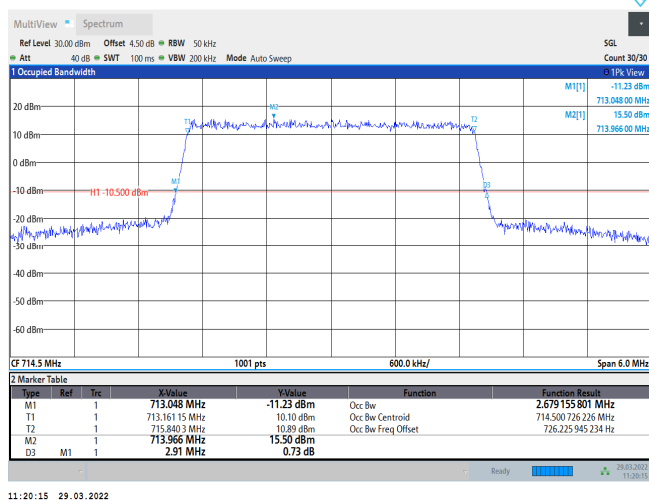
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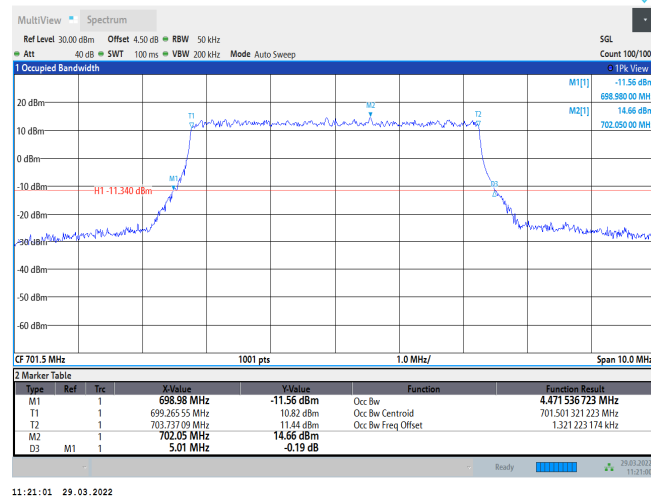
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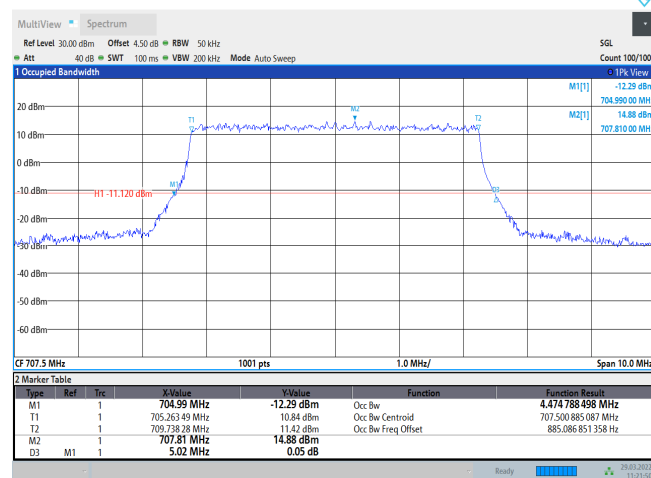
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Band12-5MHz-QPSK-23035-25RB#0



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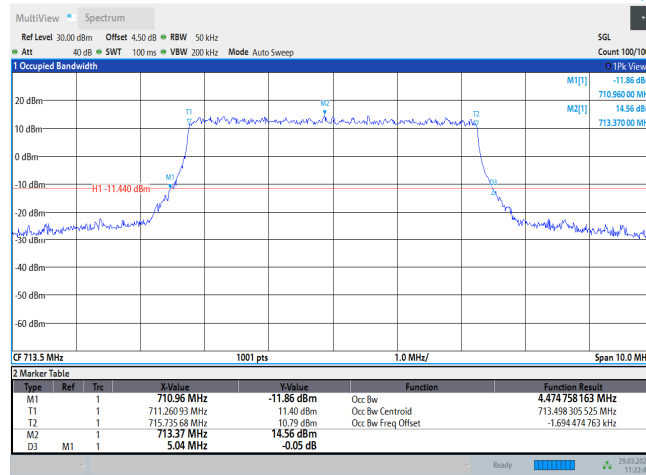
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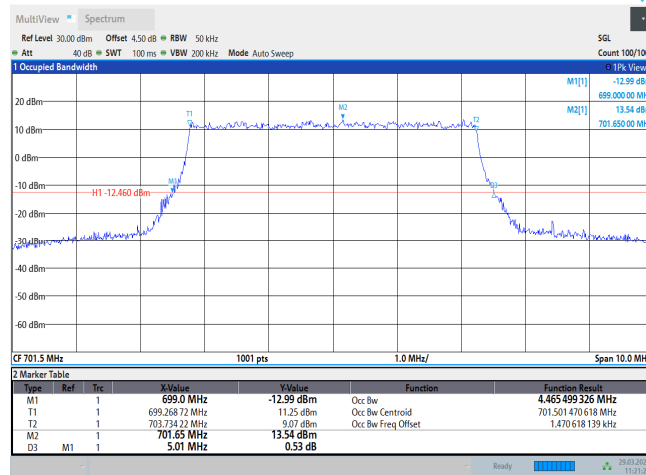
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Band12-5MHz-QPSK-23155-25RB#0



11:22:42 29.03.2022

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



11:21:26 29.03.2022



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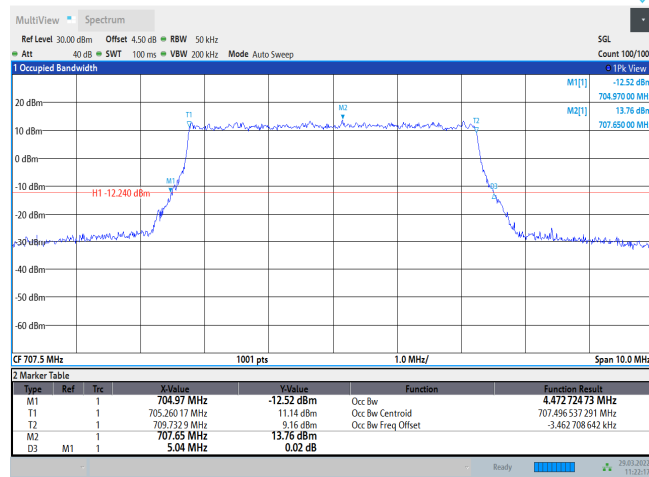
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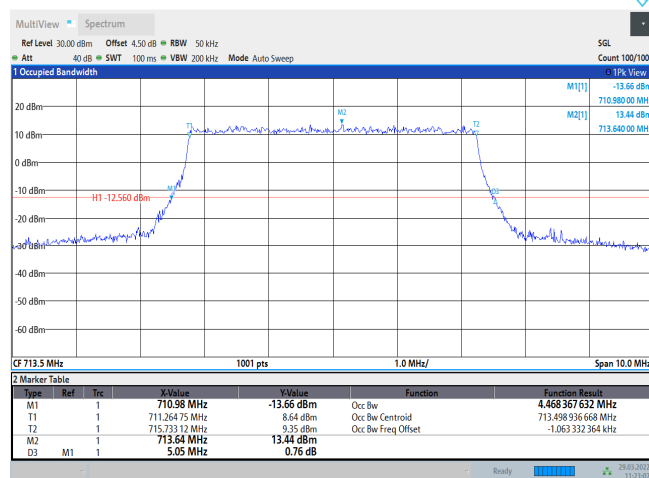
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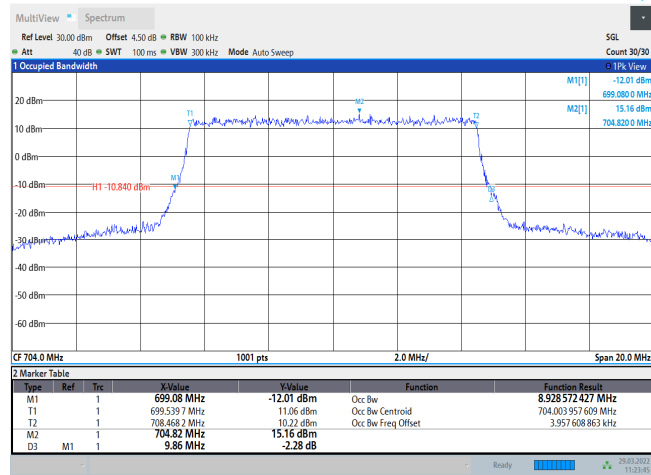
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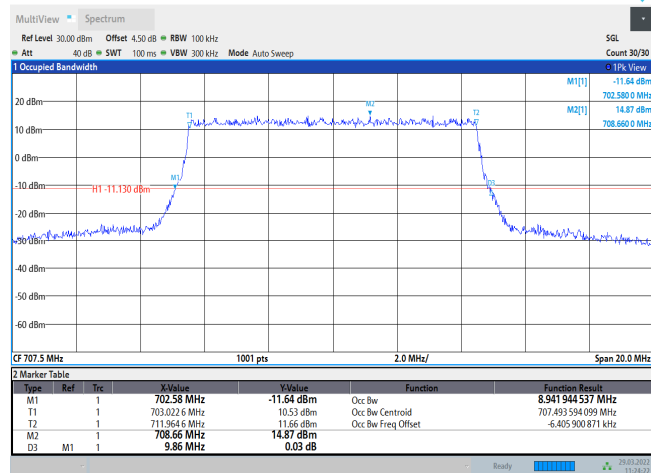
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Band12-10MHz-QPSK-23095-50RB#0



11:24:23 29.03.2022



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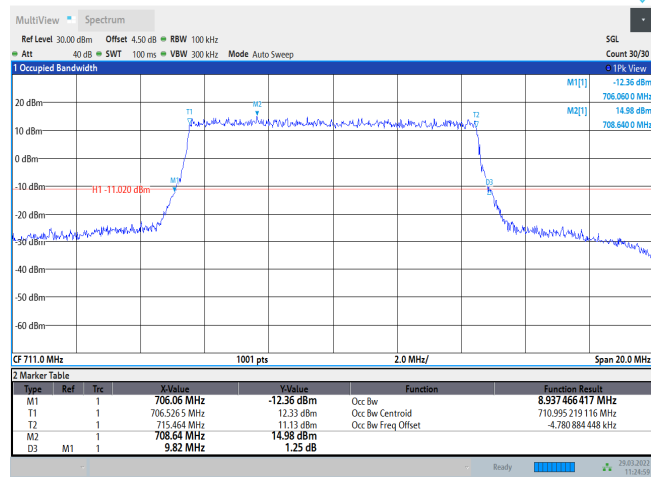
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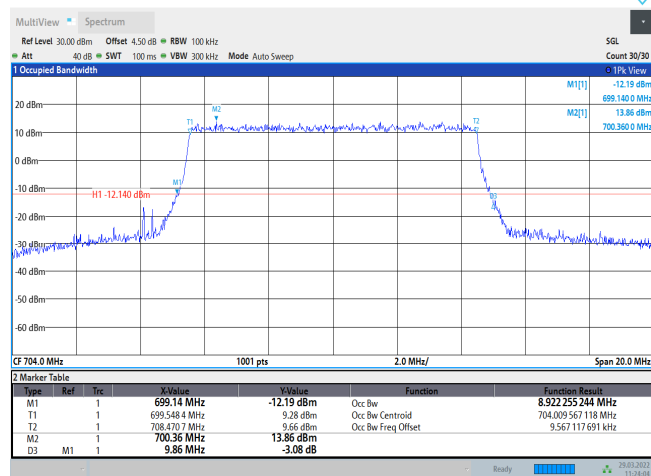
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Band12-10MHz-QPSK-23130-50RB#0



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



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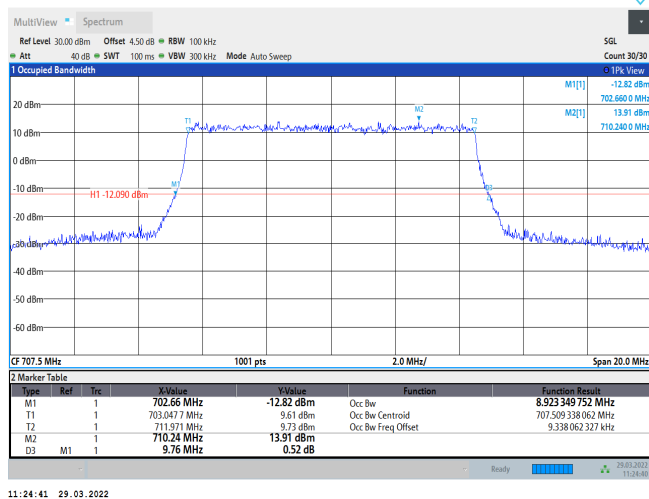
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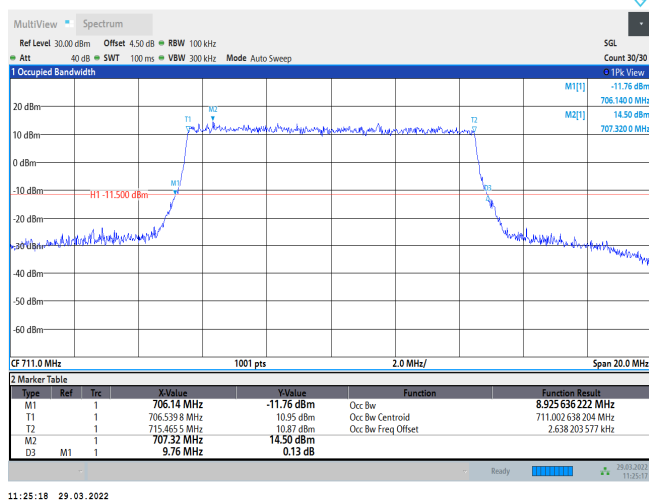
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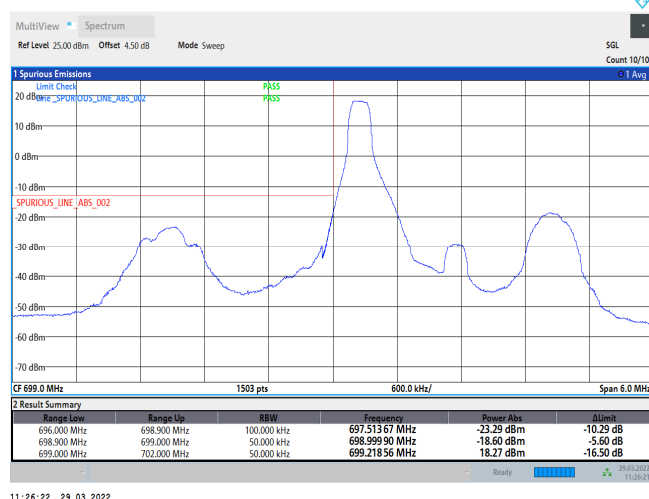
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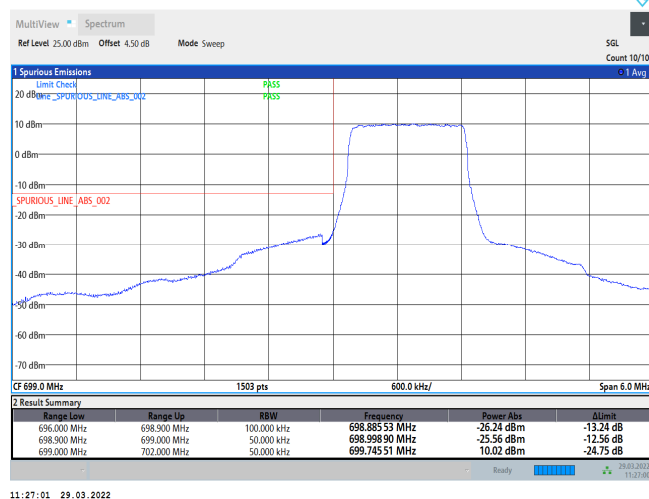
Band Edge

Test Graphs

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



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



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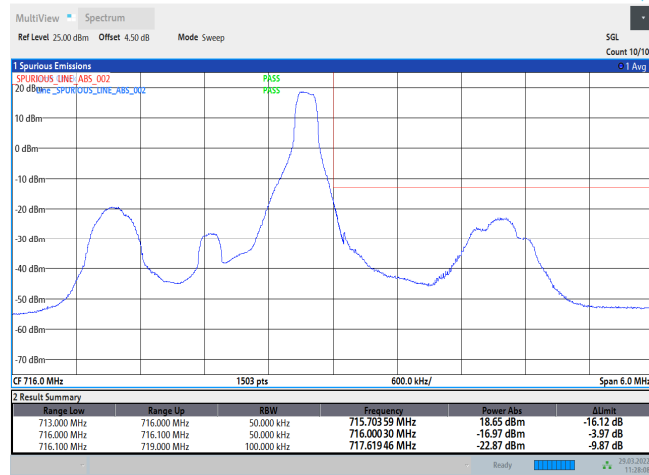
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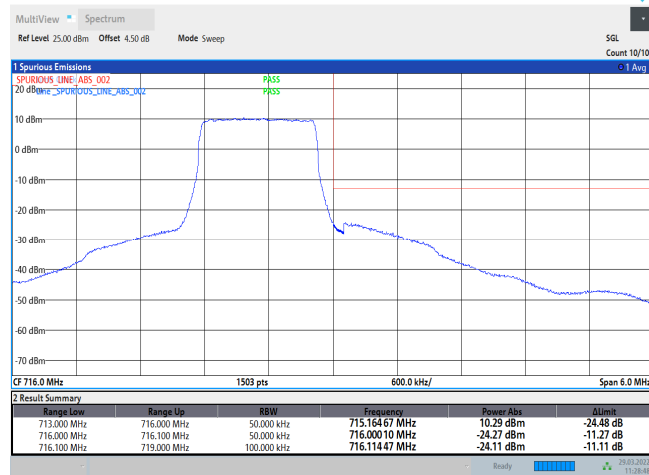
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Band12-1.4MHz-QPSK-23173-1RB#5



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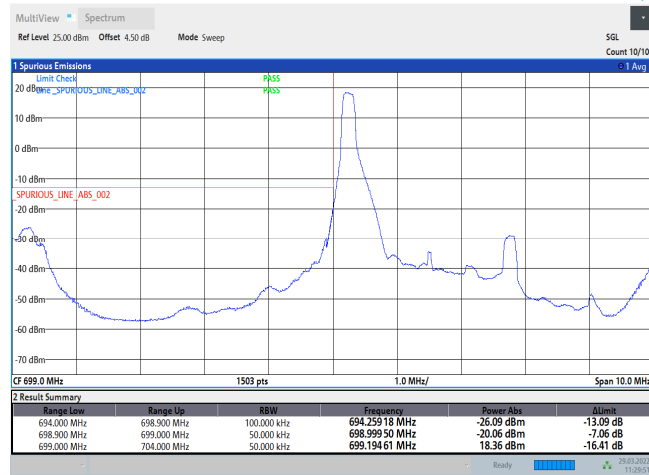
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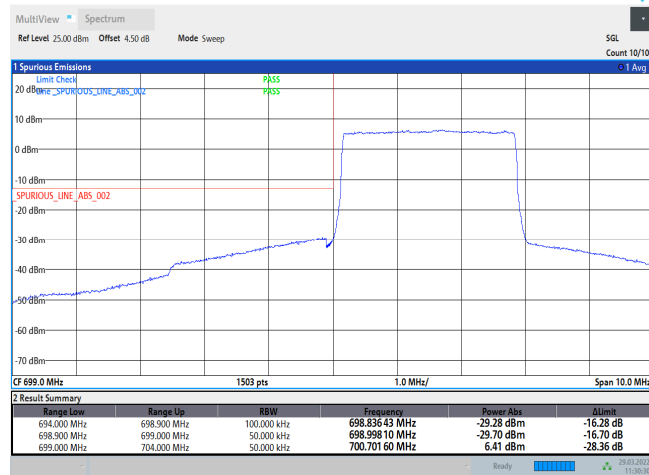
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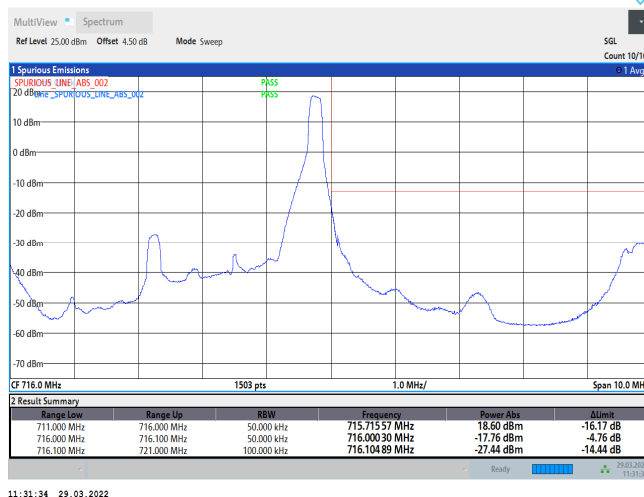
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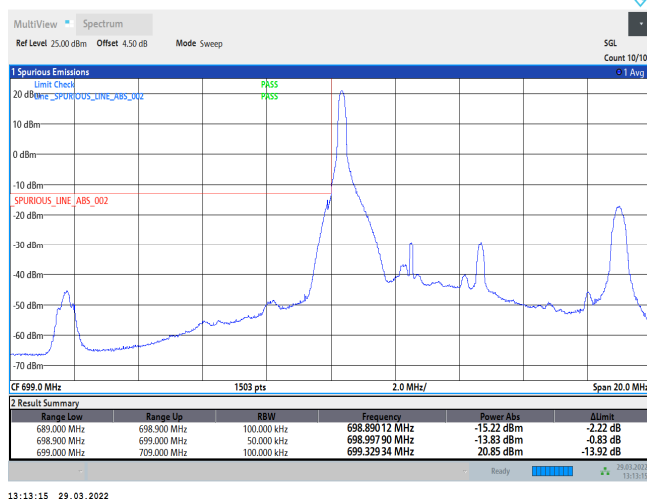
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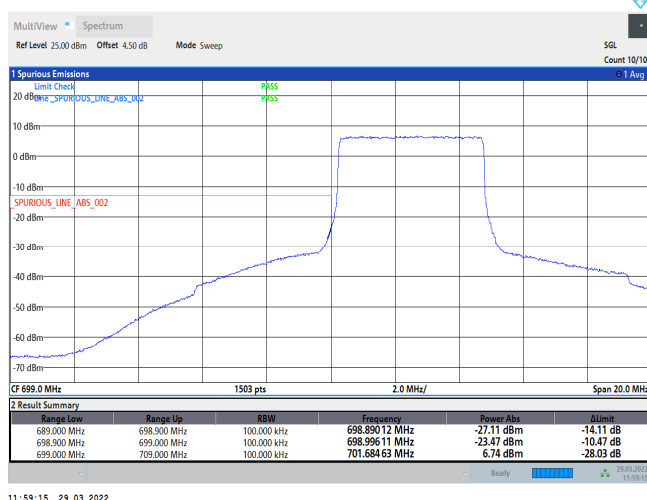
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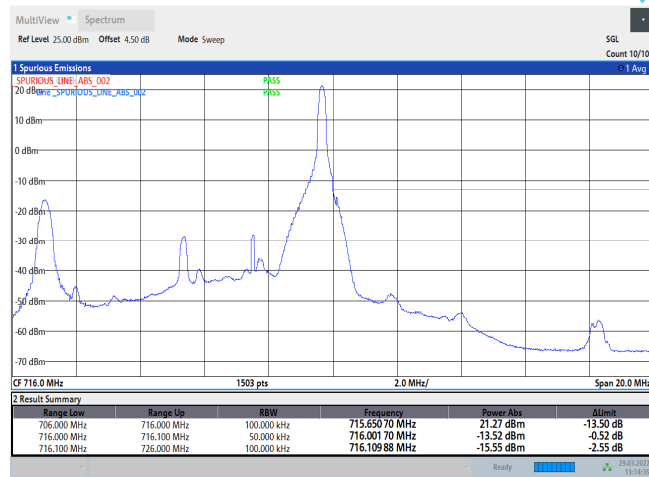
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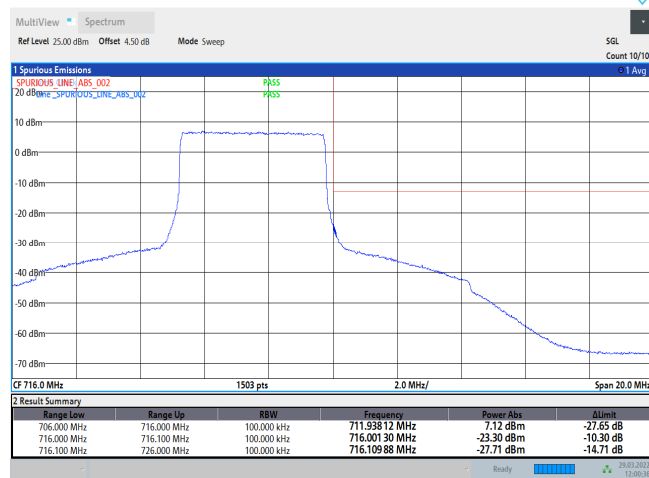
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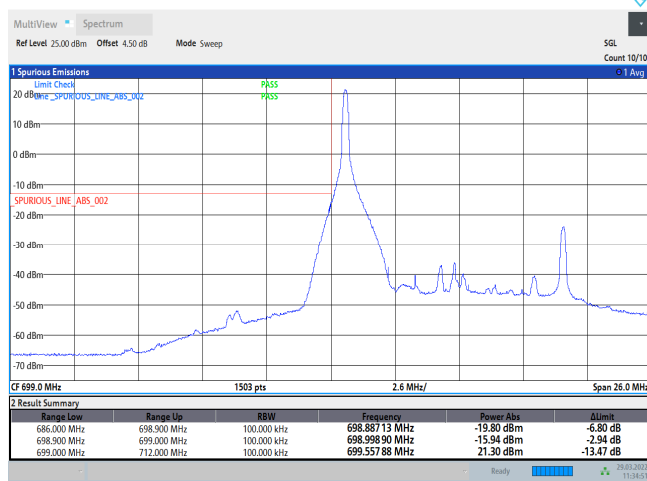
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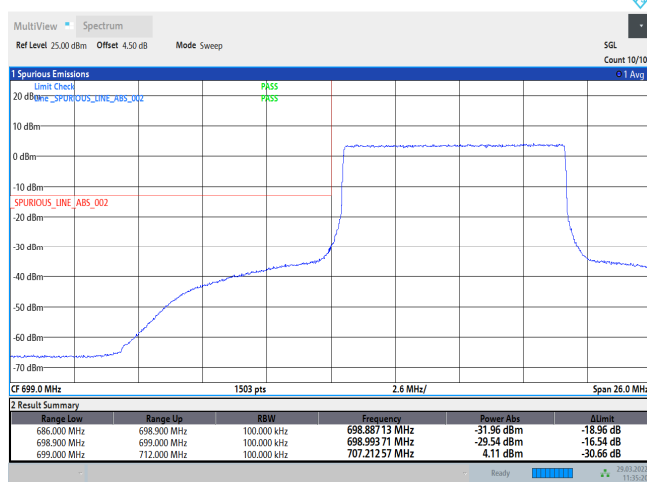
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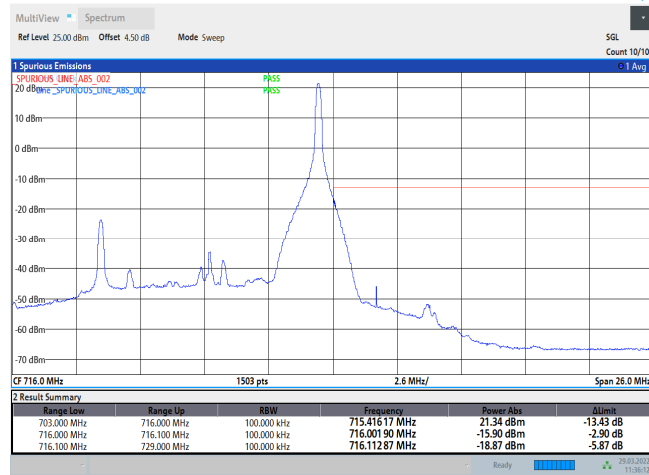
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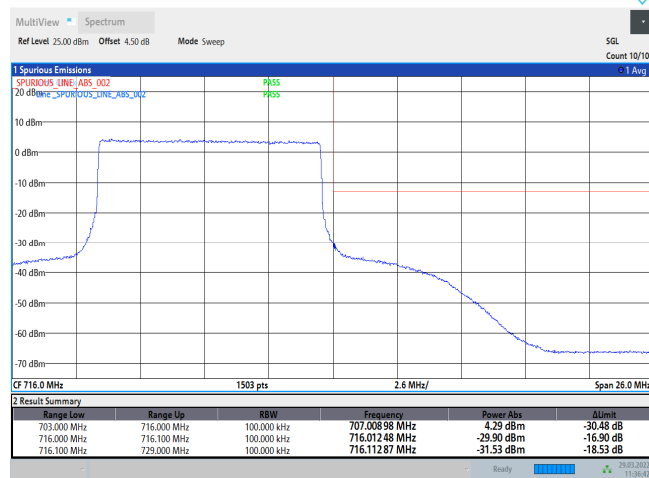
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Band12-10MHz-QPSK-23130-1RB#49



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



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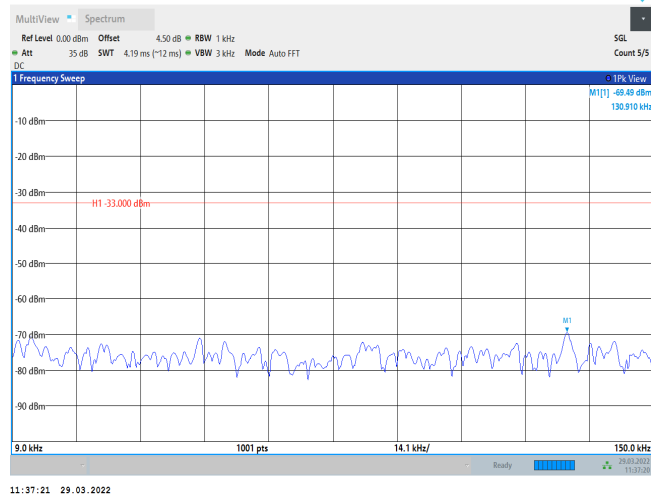
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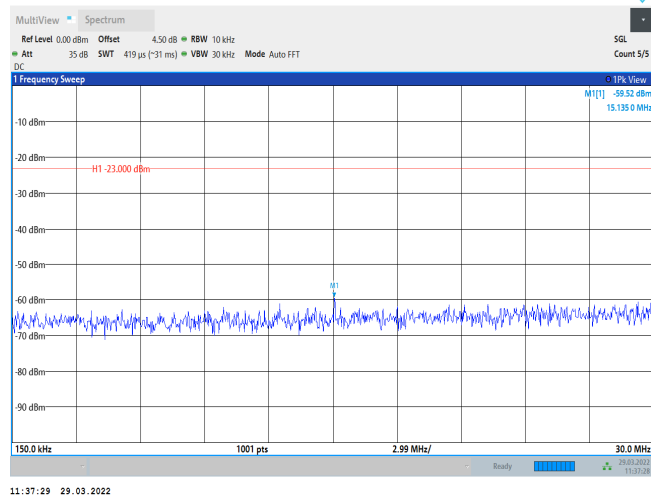
Conducted Spurious Emission

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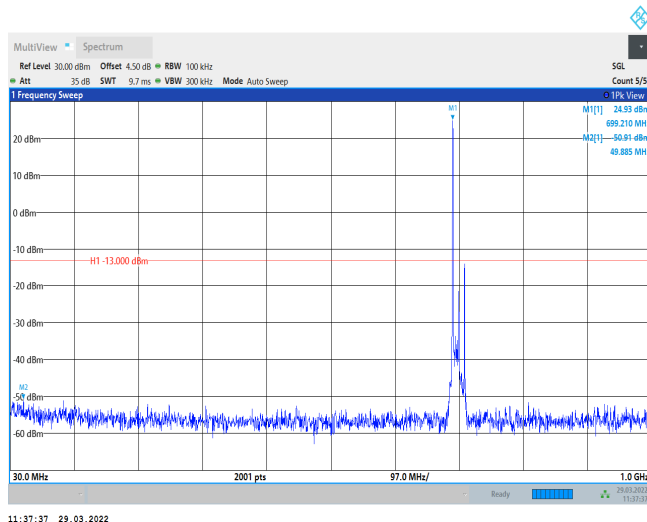
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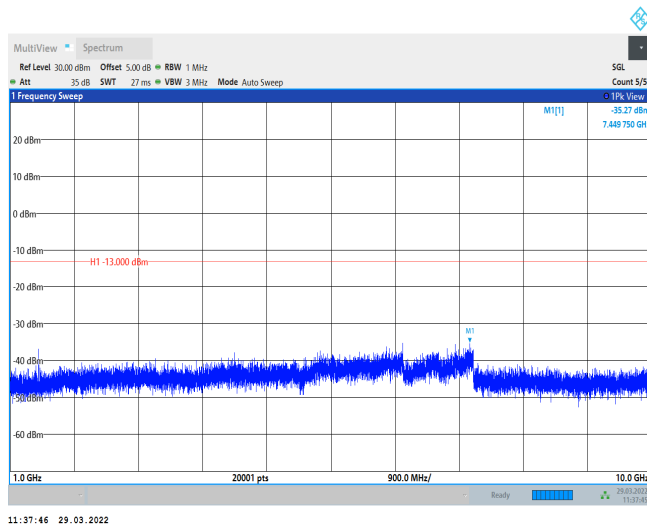
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



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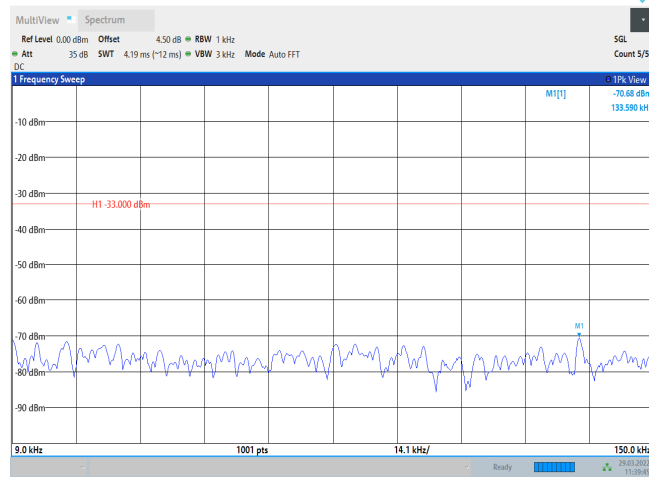
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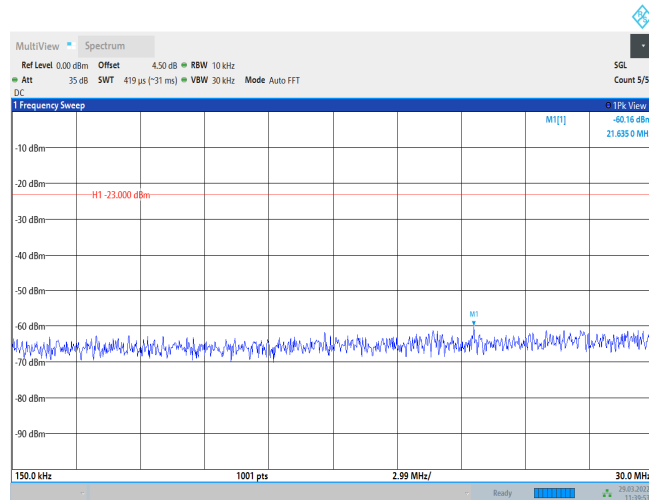
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



11:39:45 29.03.2022

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



11:39:53 29.03.2022



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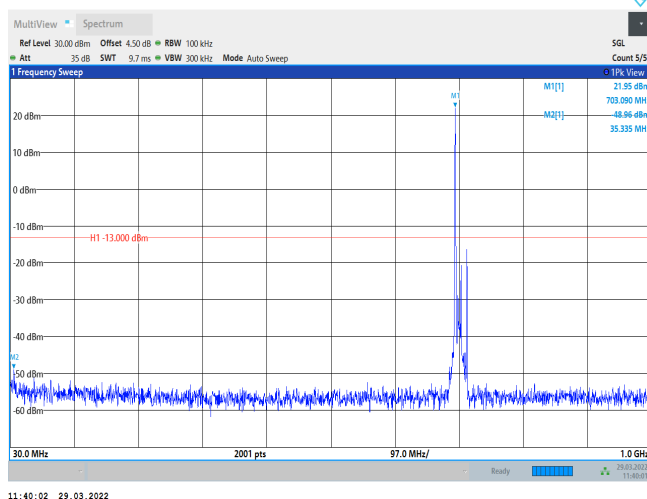
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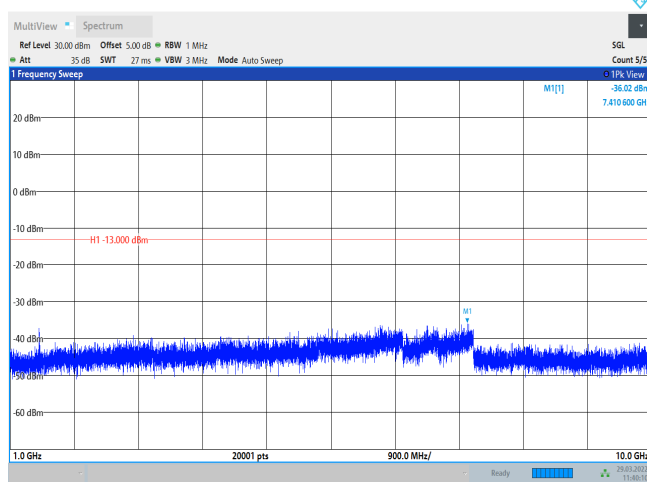
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



11:40:02 29.03.2022

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



11:40:10 29.03.2022



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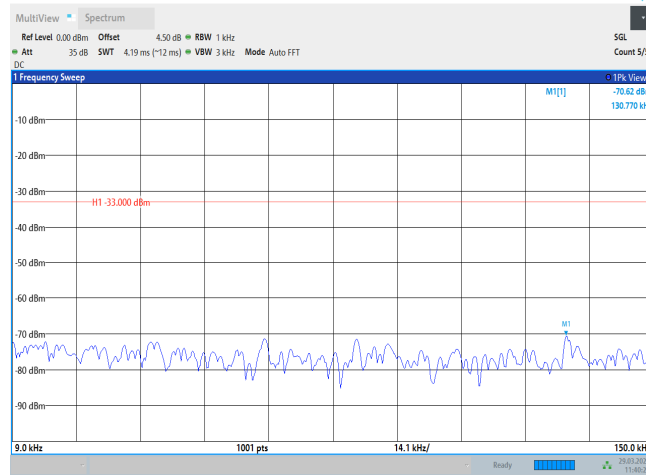
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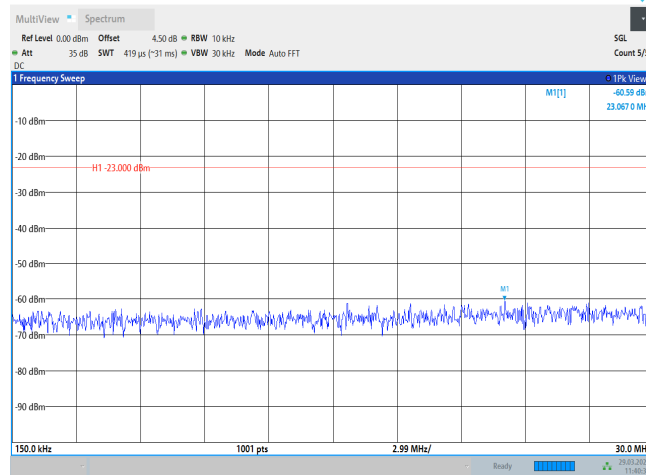
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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



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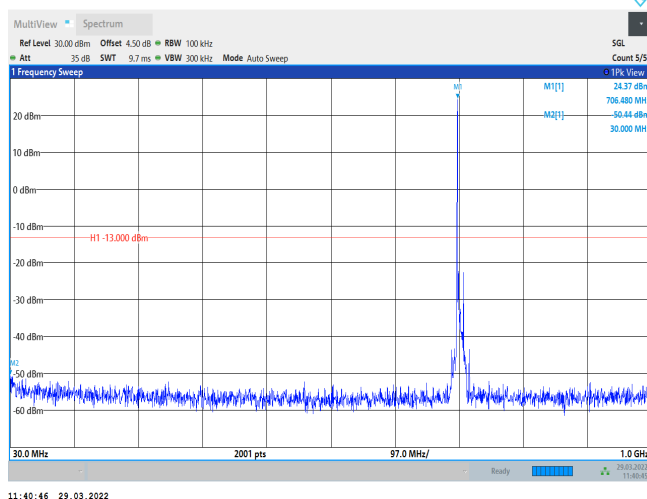
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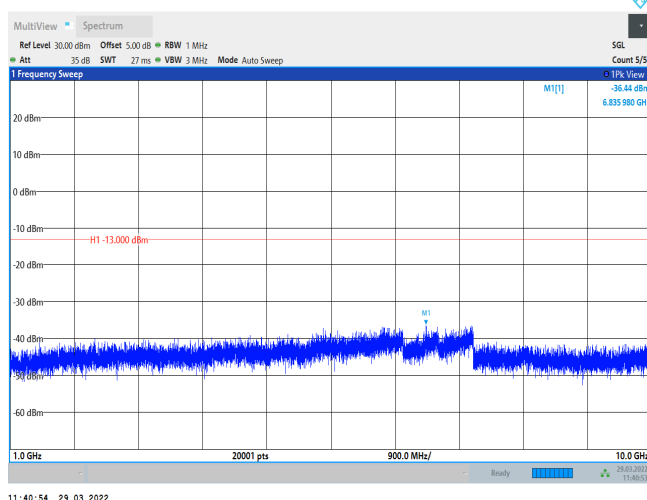
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation**Test Band = _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	56.64	-117.64	-61.00	-13.00	48.00	115	221	Horizontal
2	2098.7700	54.91	-115.99	-61.08	-13.00	48.08	146	336	Horizontal
3	2798.3600	50.74	-113.70	-62.96	-13.00	49.96	239	31	Horizontal
4	3497.9500	51.68	-112.28	-60.60	-13.00	47.60	184	43	Horizontal
5	4197.5400	49.64	-110.12	-60.48	-13.00	47.48	192	312	Horizontal
6	4897.1300	50.70	-108.25	-57.55	-13.00	44.55	200	274	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	61.61	-117.64	-56.03	-13.00	43.03	175	75	Vertical
2	2098.7700	53.63	-115.99	-62.36	-13.00	49.36	236	359	Vertical
3	2798.3600	50.76	-113.70	-62.94	-13.00	49.94	154	289	Vertical
4	3497.9500	50.16	-112.28	-62.12	-13.00	49.12	194	4	Vertical
5	4197.5400	49.68	-110.12	-60.44	-13.00	47.44	170	227	Vertical
6	4897.1300	50.01	-108.25	-58.24	-13.00	45.24	280	25	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	60.14	-117.67	-57.53	-13.00	44.53	225	159	Horizontal
2	2109.1429	55.35	-115.95	-60.60	-13.00	47.60	184	46	Horizontal
3	2812.3600	50.32	-113.60	-63.28	-13.00	50.28	196	20	Horizontal
4	3515.4500	49.89	-112.23	-62.34	-13.00	49.34	233	196	Horizontal
5	4218.5400	50.68	-110.05	-59.37	-13.00	46.37	255	159	Horizontal
6	4921.6300	49.02	-108.23	-59.21	-13.00	46.21	264	12	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	62.51	-117.67	-55.16	-13.00	42.16	126	87	Vertical
2	2109.2700	54.66	-115.94	-61.28	-13.00	48.28	235	76	Vertical
3	2812.3600	50.44	-113.60	-63.16	-13.00	50.16	184	267	Vertical
4	3515.4500	51.32	-112.23	-60.91	-13.00	47.91	196	126	Vertical
5	4218.5400	50.71	-110.05	-59.34	-13.00	46.34	170	267	Vertical
6	4921.6300	50.09	-108.23	-58.14	-13.00	45.14	222	228	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	55.90	-117.70	-61.80	-13.00	48.80	159	171	Horizontal
2	2119.7700	58.71	-115.90	-57.19	-13.00	44.19	184	323	Horizontal
3	2826.3600	50.61	-113.49	-62.88	-13.00	49.88	172	58	Horizontal
4	3532.9500	50.06	-112.18	-62.12	-13.00	49.12	233	21	Horizontal
5	4239.5400	50.22	-109.97	-59.75	-13.00	46.75	260	97	Horizontal
6	4946.1300	49.81	-108.22	-58.41	-13.00	45.41	141	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	59.71	-117.70	-57.99	-13.00	44.99	213	128	Vertical
2	2119.7700	59.44	-115.90	-56.46	-13.00	43.46	236	255	Vertical
3	2826.3600	53.03	-113.49	-60.46	-13.00	47.46	207	115	Vertical
4	3532.9500	50.21	-112.18	-61.97	-13.00	48.97	148	330	Vertical
5	4239.5400	49.48	-109.97	-60.49	-13.00	47.49	196	90	Vertical
6	4946.1300	50.15	-108.22	-58.07	-13.00	45.07	270	360	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	23095	50RB#0	VL	NT	-8.20	-0.011590	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-5.80	-0.008198	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-7.10	-0.010035	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-8.40	-0.011873	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-7.90	-0.011166	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-7.40	-0.010459	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-7.40	-0.010459	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-6.20	-0.008763	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-5.70	-0.008057	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-10.60	-0.014982	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-5.40	-0.007633	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-6.10	-0.008622	PASS

The End



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