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Appendix B.5

LTE Band 12



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.08	24.19	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.14	24.25	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.96	24.07	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.02	23.13	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.98	24.09	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.10	24.21	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.97	24.08	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.02	23.13	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.96	24.07	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.98	24.09	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.93	24.04	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.95	23.06	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.34	23.45	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.35	23.46	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.23	23.34	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.13	22.24	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.42	23.53	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.35	23.46	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.27	23.38	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.06	22.17	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.17	23.28	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.26	23.37	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.27	23.38	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.97	22.08	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.09	24.20	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.06	24.17	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.01	24.12	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	22.16	23.27	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.15	24.26	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.01	24.12	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.03	24.14	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.08	23.19	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.05	24.16	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.02	24.13	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.87	23.98	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.00	23.11	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.44	23.55	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.41	23.52	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.25	23.36	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.17	22.28	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.32	23.43	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.42	23.53	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.25	23.36	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.03	22.14	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.23	23.34	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.35	23.46	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.17	23.28	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.09	22.20	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.10	24.21	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.19	24.30	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.03	24.14	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.08	23.19	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.16	24.27	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.83	23.94	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.06	24.17	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.07	23.18	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.01	24.12	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.11	24.22	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.97	24.08	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.05	23.16	34.77	PASS



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Band12	5MHz	16QAM	23035	1RB#0	22.39	23.50	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.28	23.39	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.50	23.61	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.06	22.17	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.46	23.57	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.29	23.40	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.28	23.39	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.03	22.14	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.31	23.42	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.27	23.38	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.29	23.40	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.99	22.10	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.43	24.54	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.26	24.37	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.16	24.27	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.11	23.22	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.37	24.48	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.02	24.13	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.21	24.32	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.03	23.14	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.38	24.49	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.01	24.12	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.33	24.44	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.10	23.21	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.59	23.70	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.37	23.48	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.50	23.61	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.01	22.12	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.61	23.72	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.36	23.47	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.41	23.52	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.10	22.21	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.62	23.73	34.77	PASS



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Band12	10MHz	16QAM	23130	1RB#24	22.45	23.56	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.44	23.55	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.13	22.24	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	6.66	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.68	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	6.66	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	7.18	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	7.20	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	7.18	13	PASS



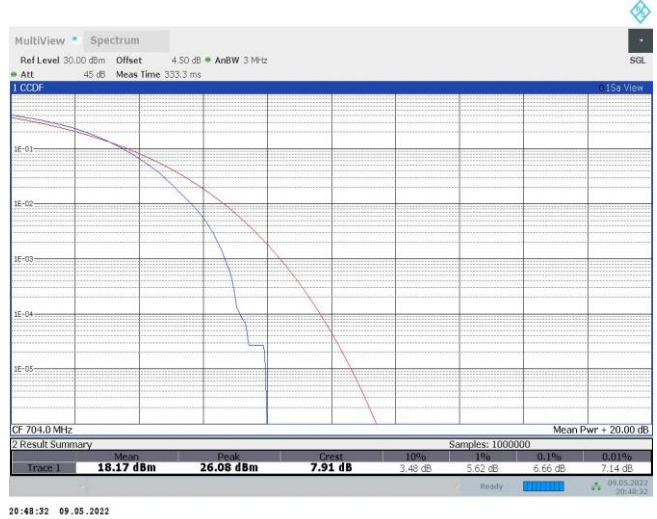
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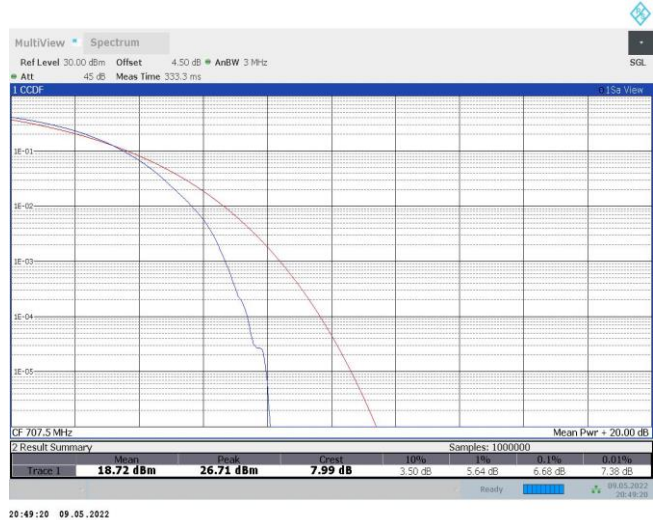
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Test Graphs

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



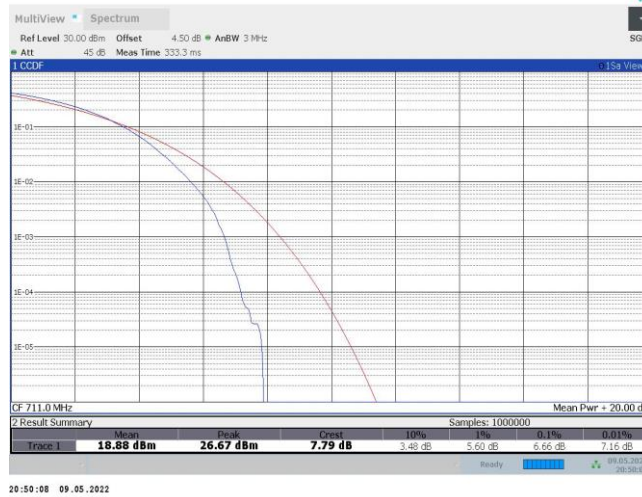
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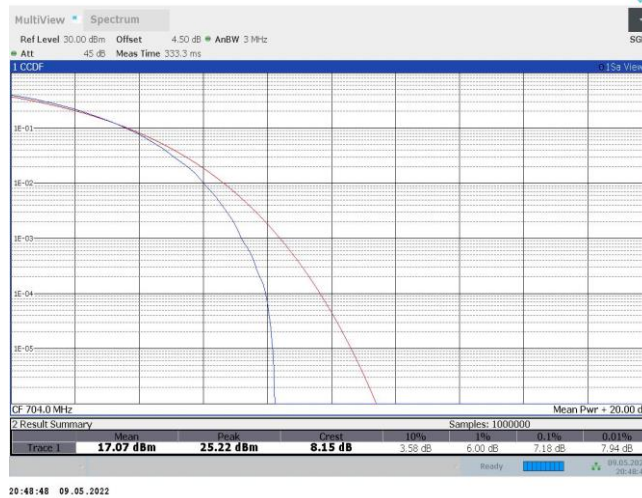
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Band12-10MHz-QPSK-23130-50RB#0

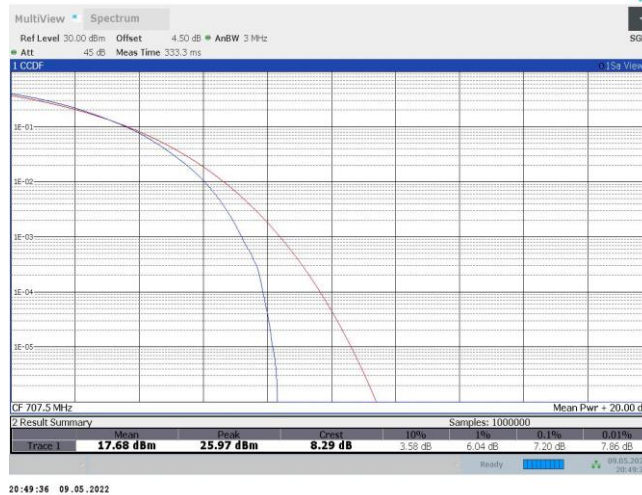


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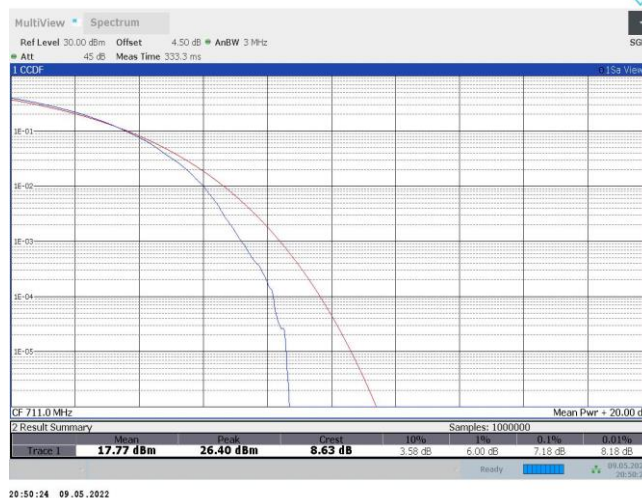


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Band12-10MHz-16QAM-23095-50RB#0



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



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Report No.: SEWM2209000164RG01

Rev.: 01

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Modulation Characteristics

Test Result

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

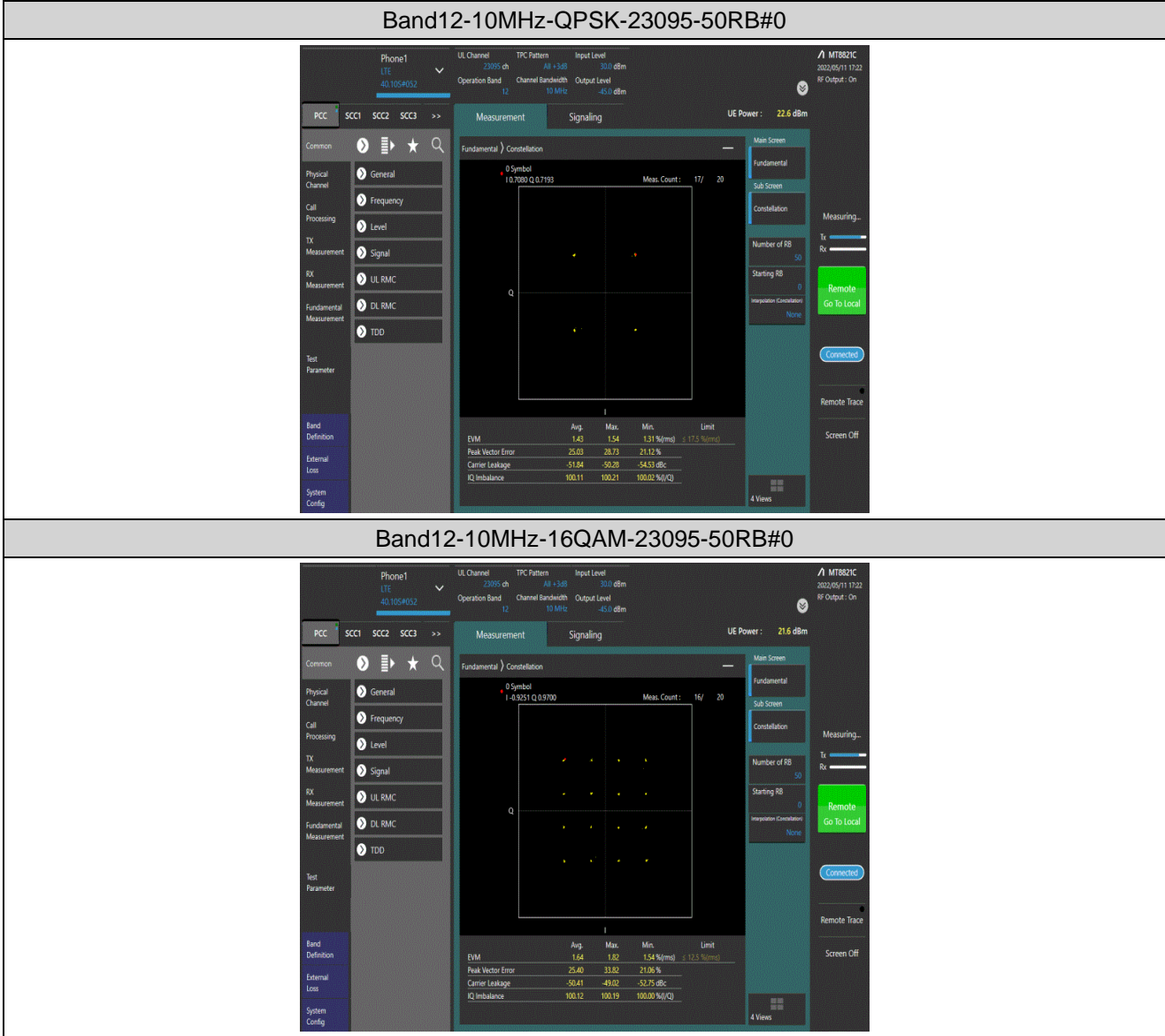


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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.089	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.09	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.09	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.095	1.29	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.095	1.29	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.098	1.29	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.699	2.98	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.691	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.699	2.96	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.689	2.98	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.69	2.97	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.691	2.97	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.471	4.92	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.468	4.91	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.477	4.92	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.468	4.93	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.467	4.92	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.471	4.93	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.942	9.72	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.923	9.66	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.91	9.60	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.923	9.68	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.908	9.68	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.905	9.68	PASS

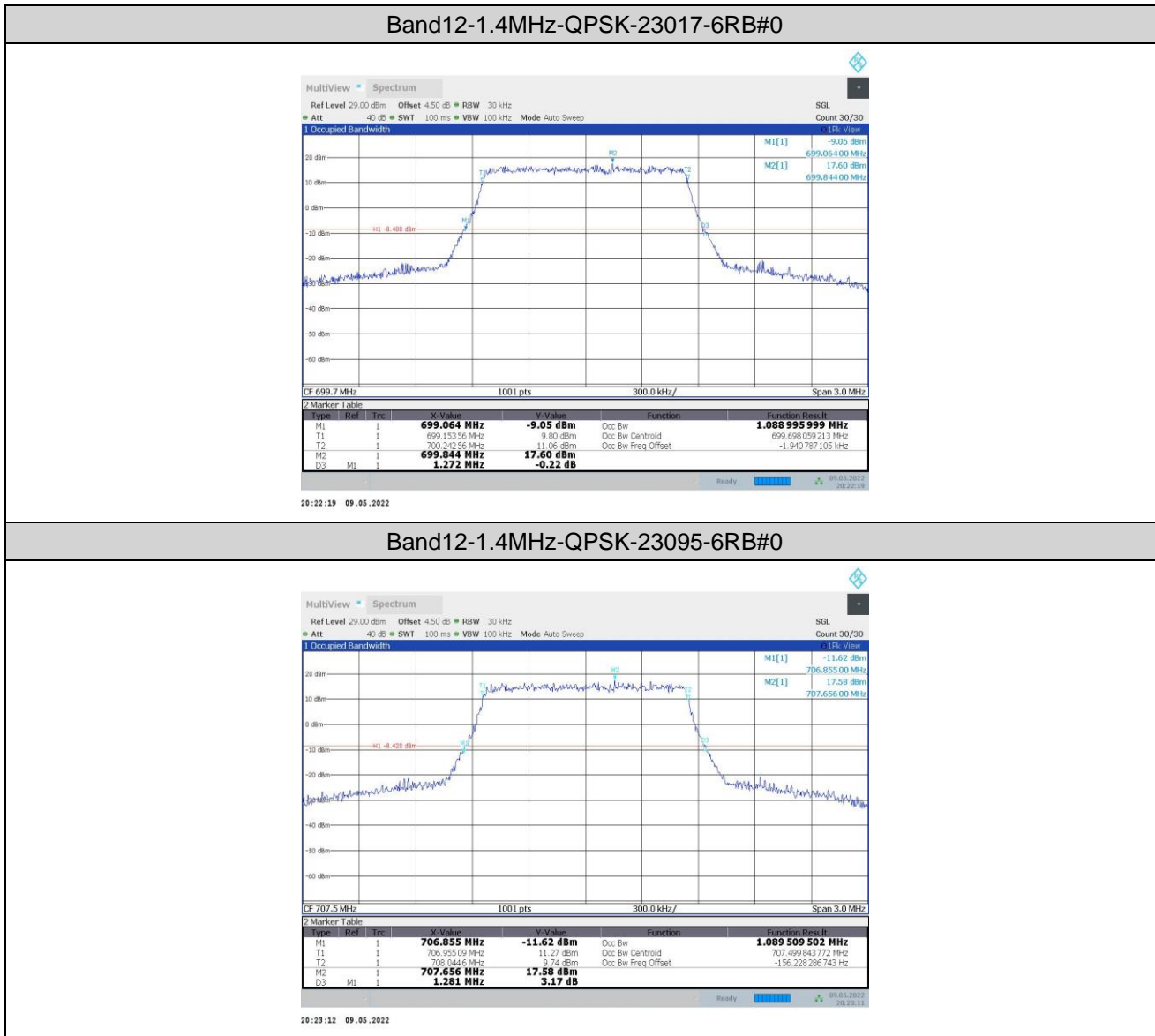


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Test Graphs

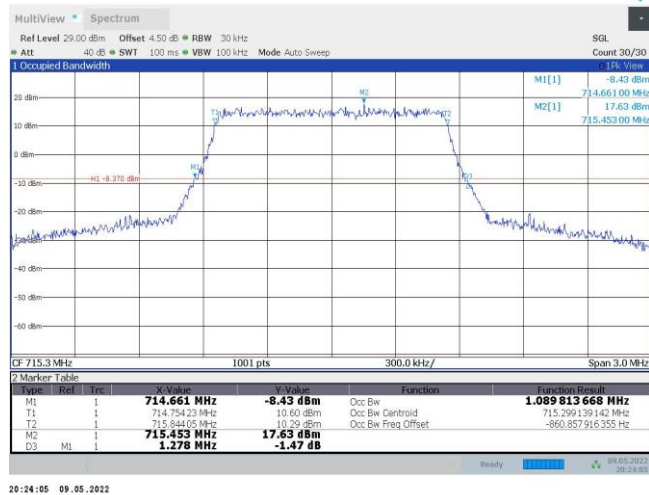


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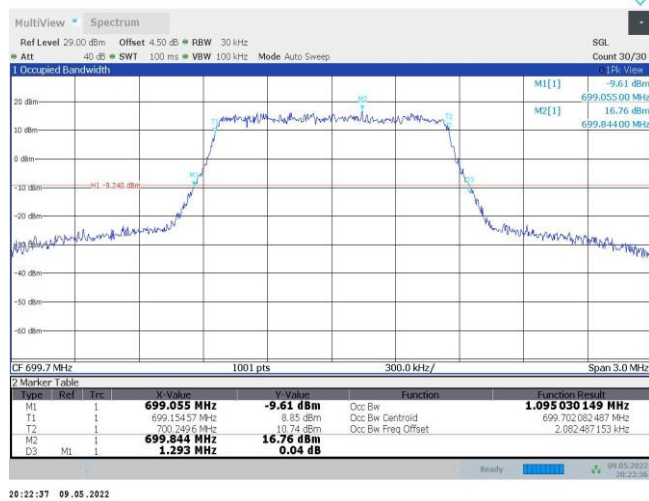
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Band12-1.4MHz-QPSK-23173-6RB#0



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



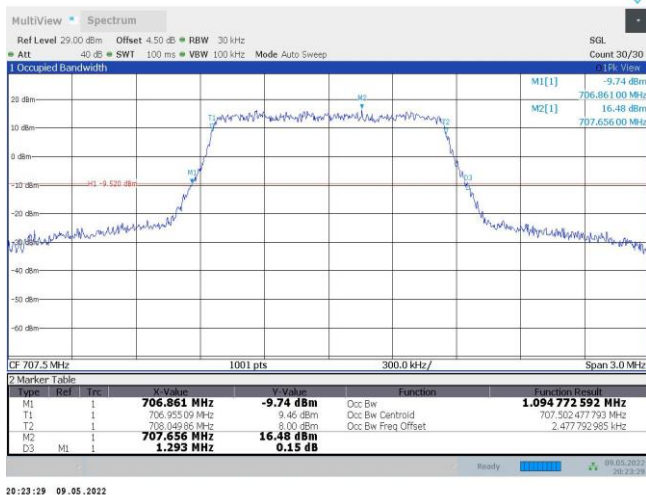
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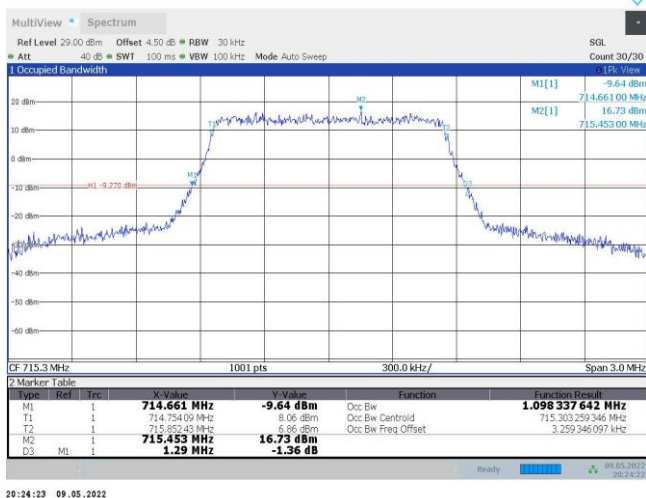
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Band12-1.4MHz-16QAM-23095-6RB#0



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

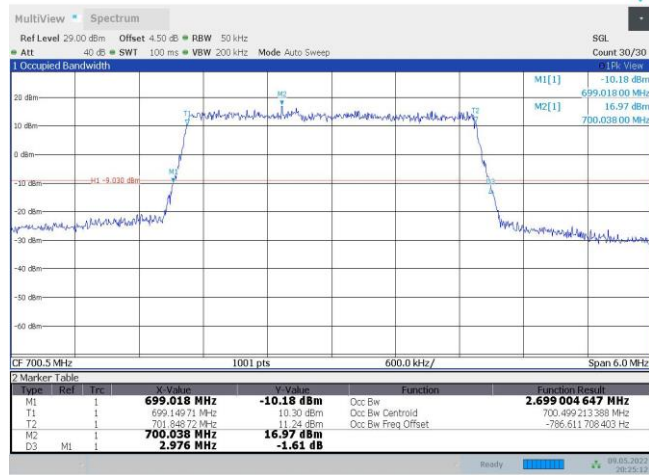


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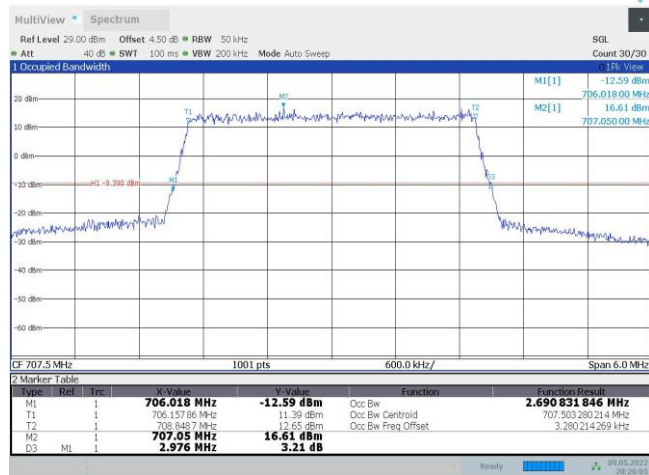
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Band12-3MHz-QPSK-23025-15RB#0



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



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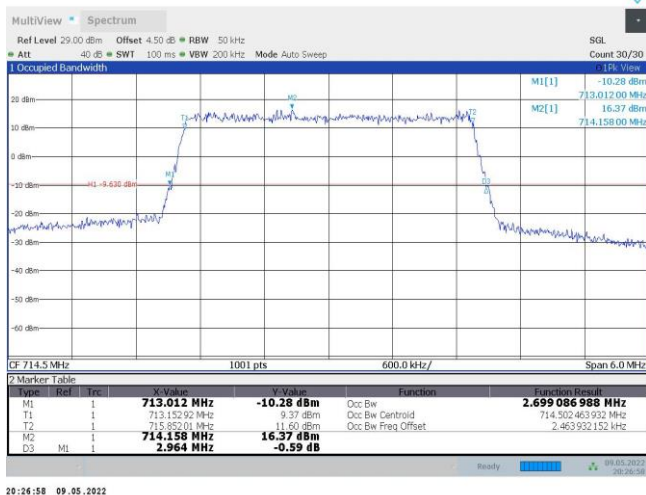
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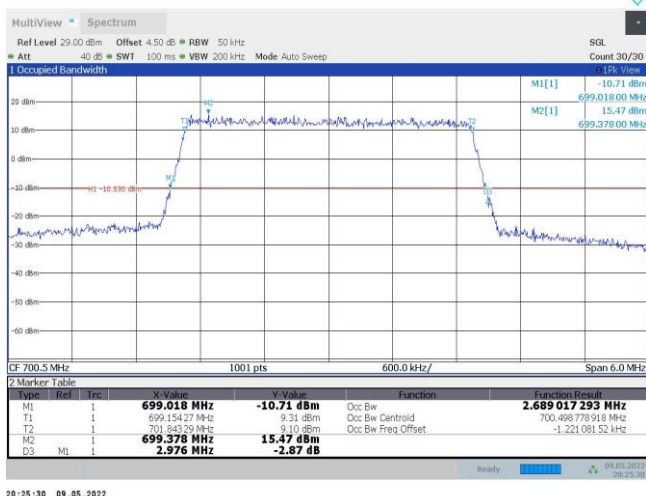
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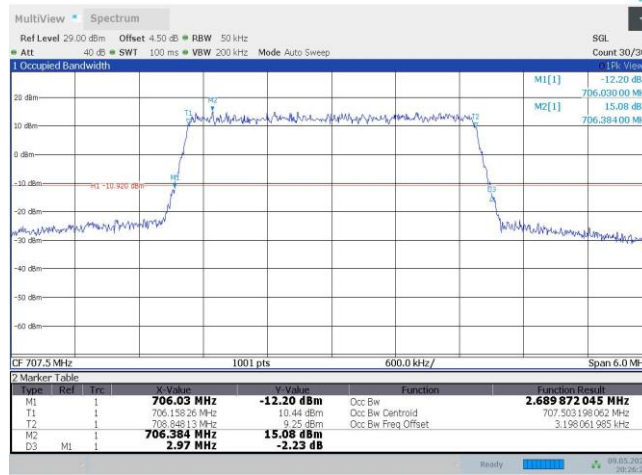


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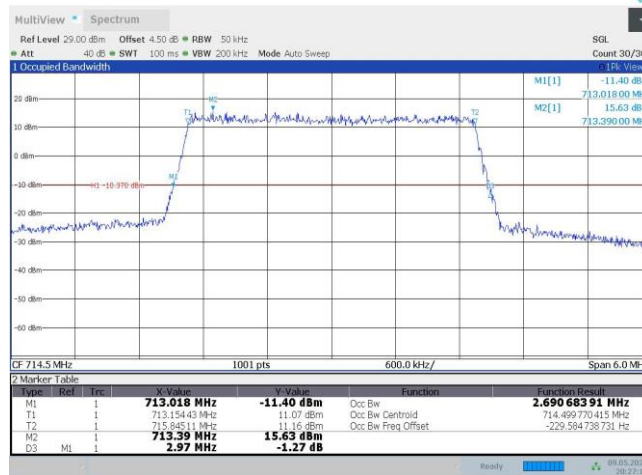


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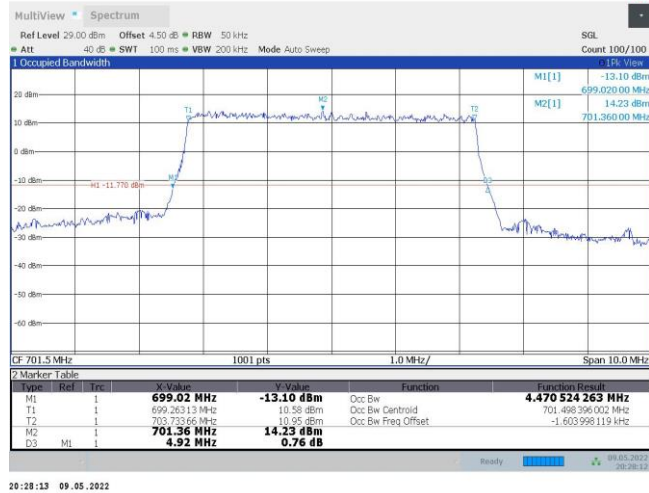
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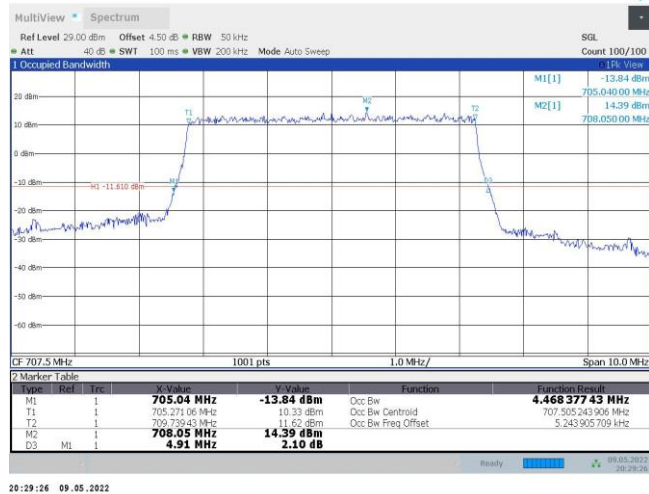
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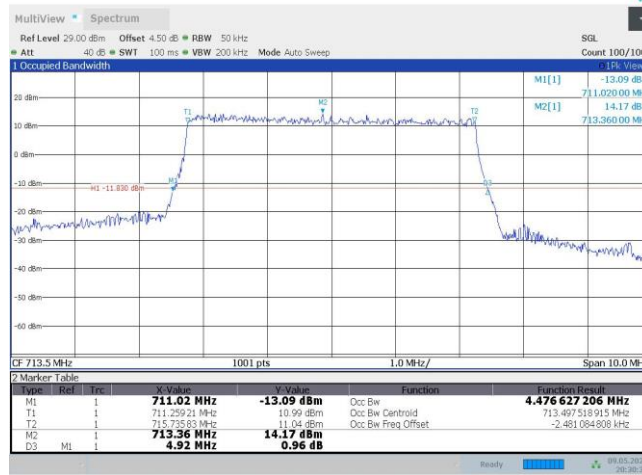


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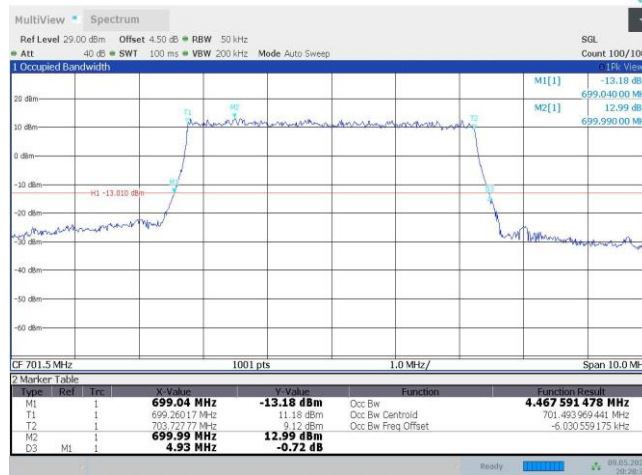
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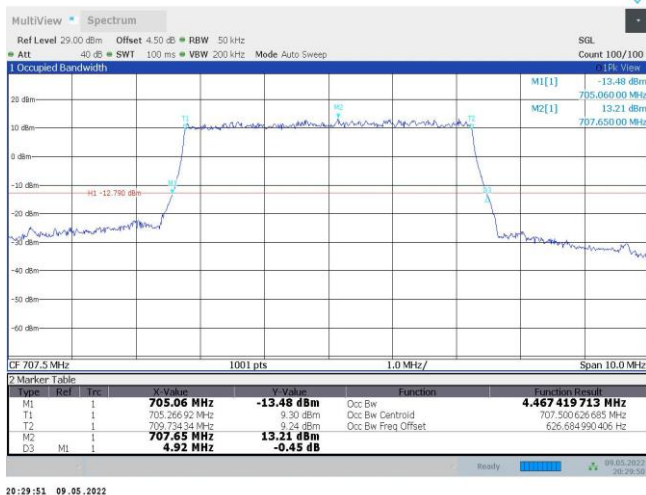


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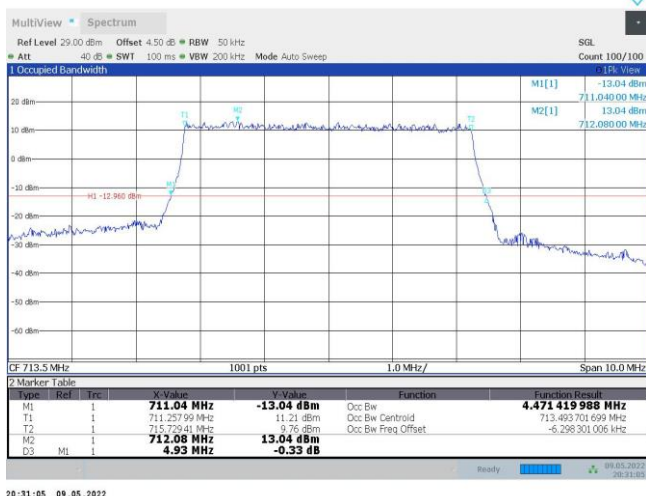
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Band12-5MHz-16QAM-23095-25RB#0



20:29:51 09.05.2022

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



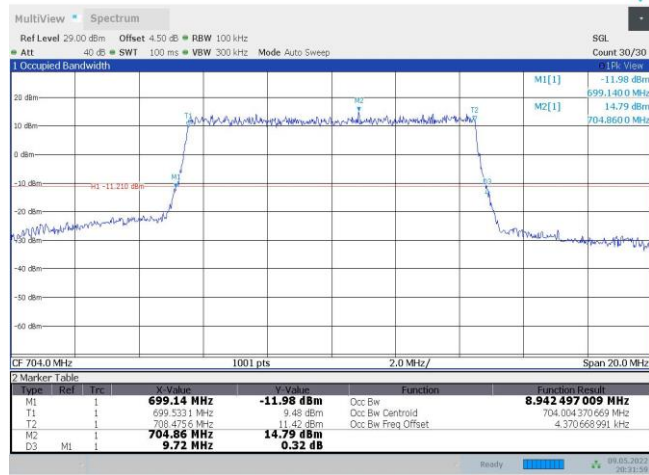
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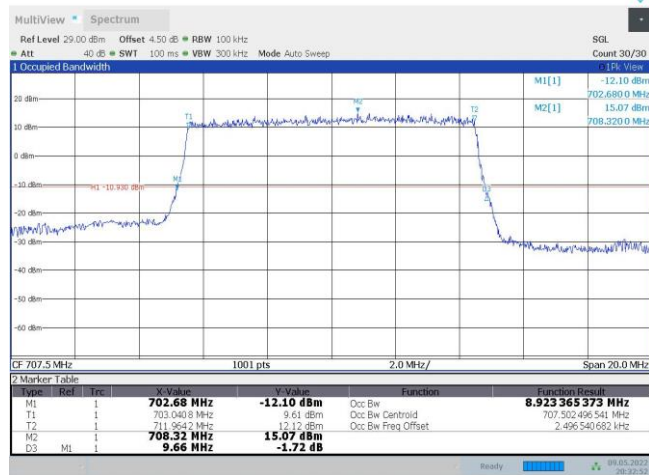
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Band12-10MHz-QPSK-23060-50RB#0



20:32:00 09.05.2022

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



20:32:53 09.05.2022

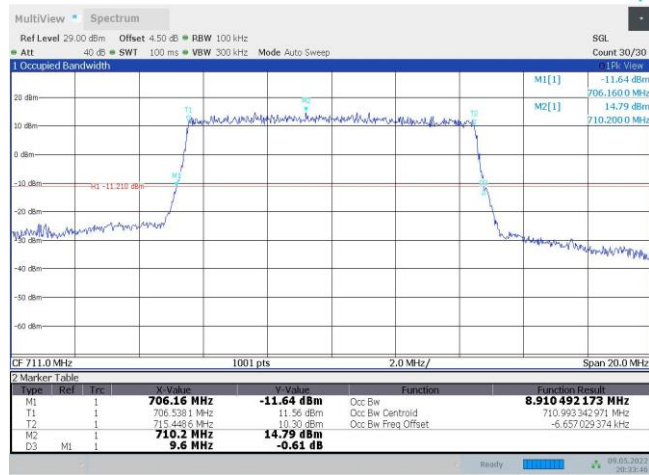


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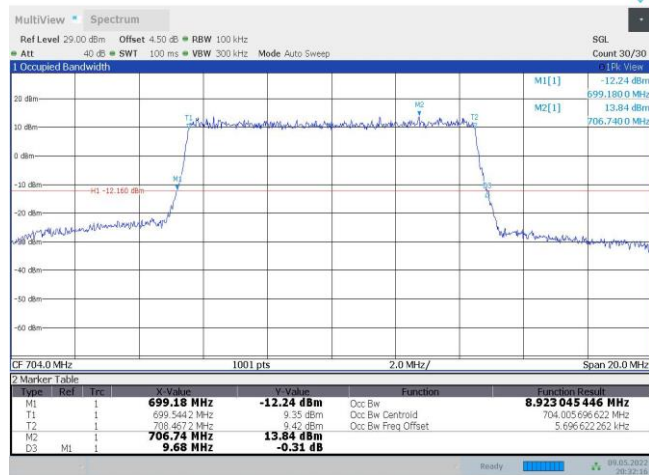
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Band12-10MHz-QPSK-23130-50RB#0

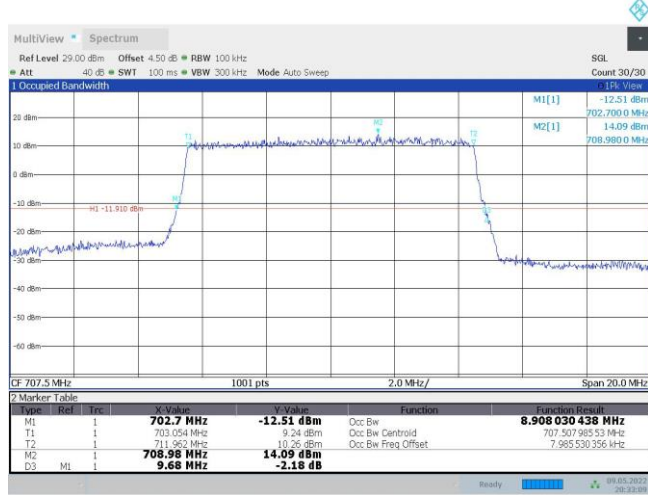


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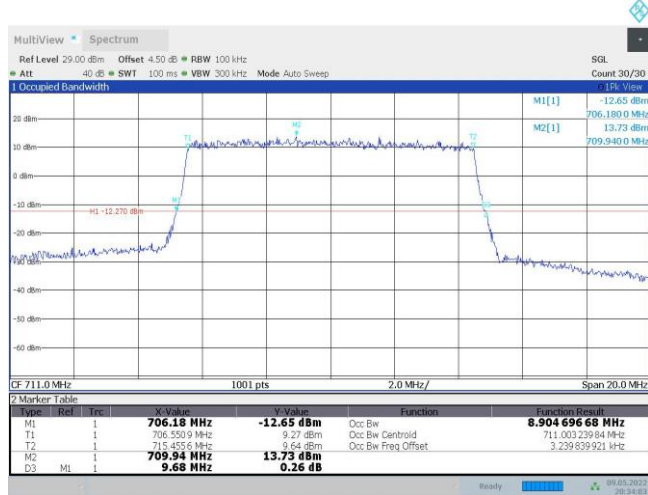


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Band12-10MHz-16QAM-23095-50RB#0



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



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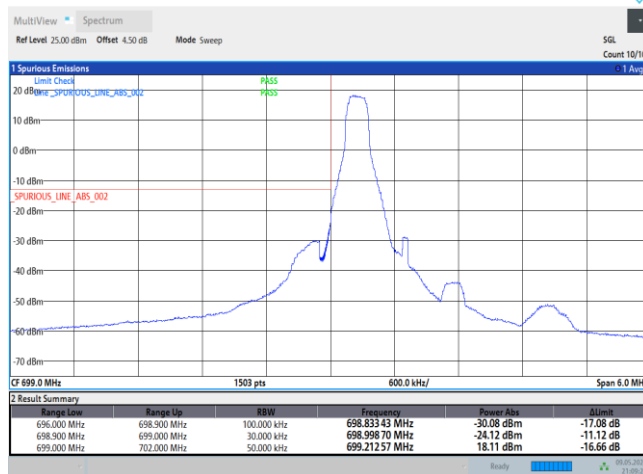
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Band Edge

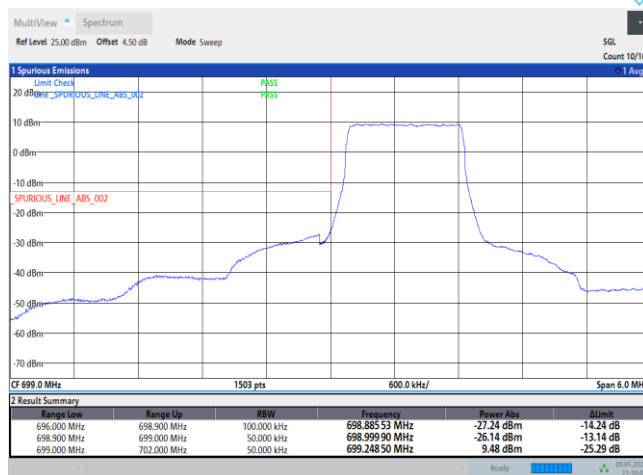
Test Graphs

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



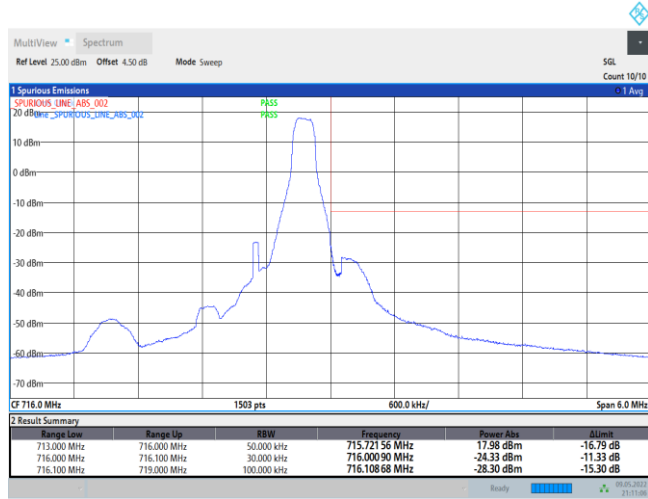
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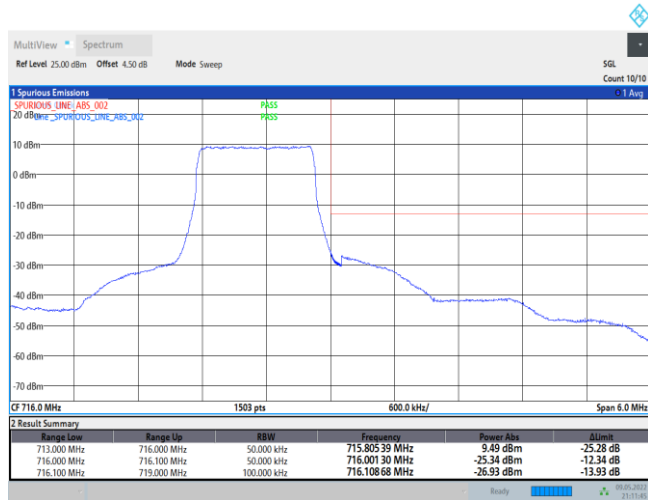
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Band12-1.4MHz-QPSK-23173-1RB#5



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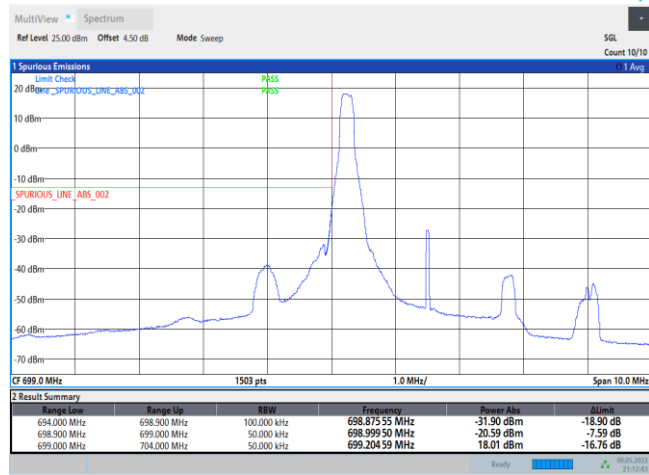


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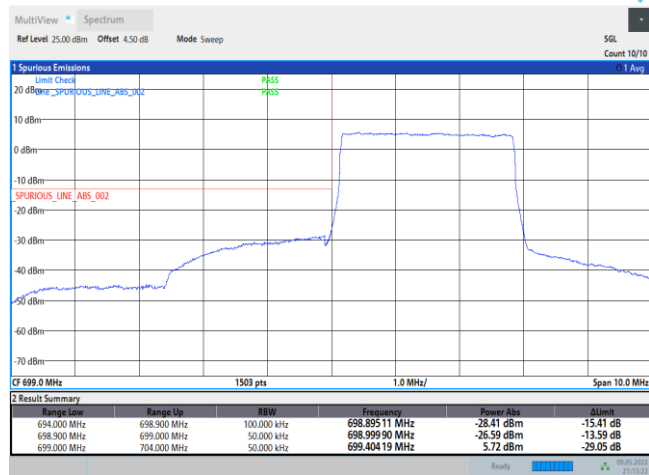
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Band12-3MHz-QPSK-23025-1RB#0



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



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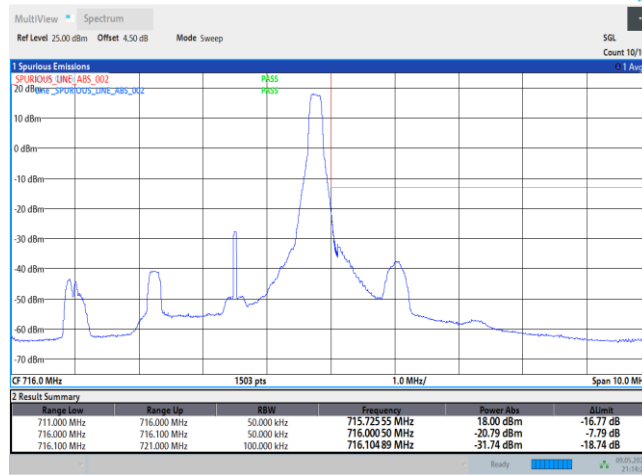


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Band12-3MHz-QPSK-23165-1RB#14



21:14:20 09.05.2022

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



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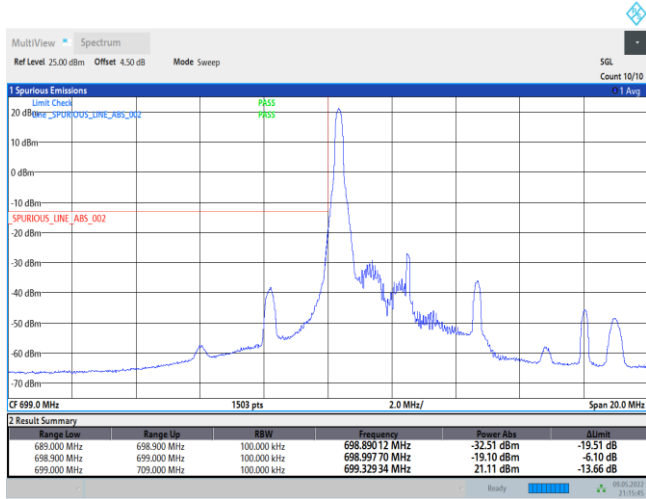


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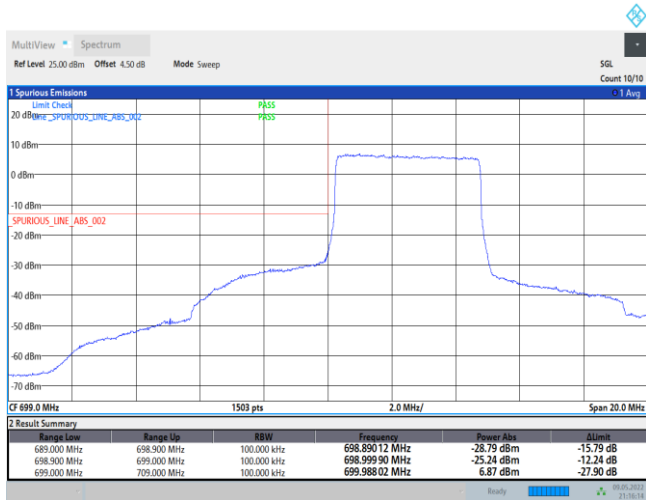
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Band12-5MHz-QPSK-23035-1RB#0



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

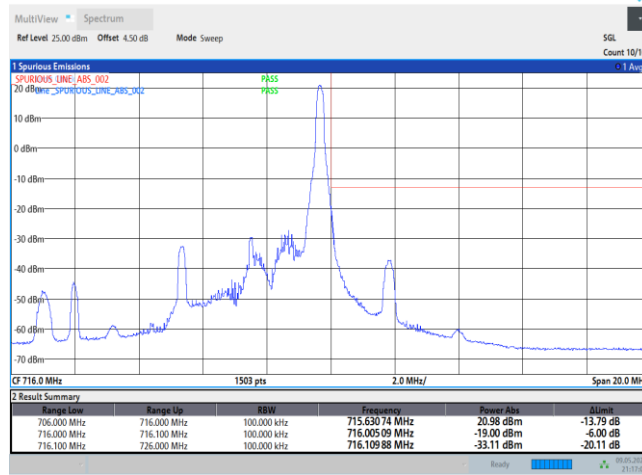


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Band12-5MHz-QPSK-23155-1RB#24



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



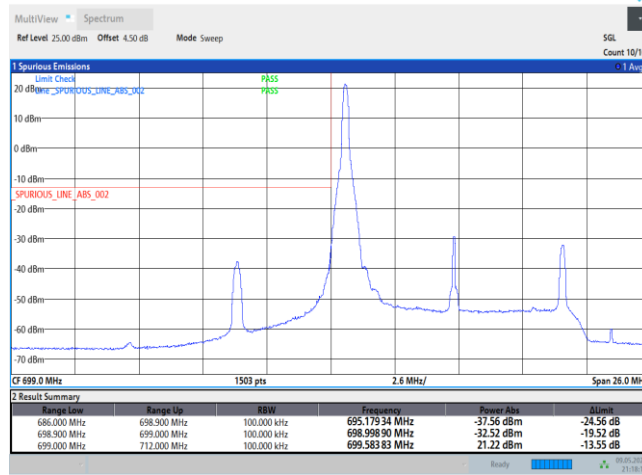
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Band12-10MHz-QPSK-23060-1RB#0



21:18:20 09.05.2022

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



21:18:49 09.05.2022

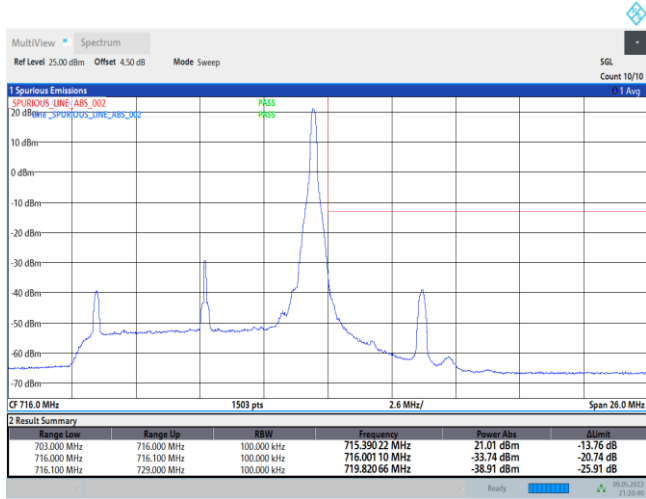


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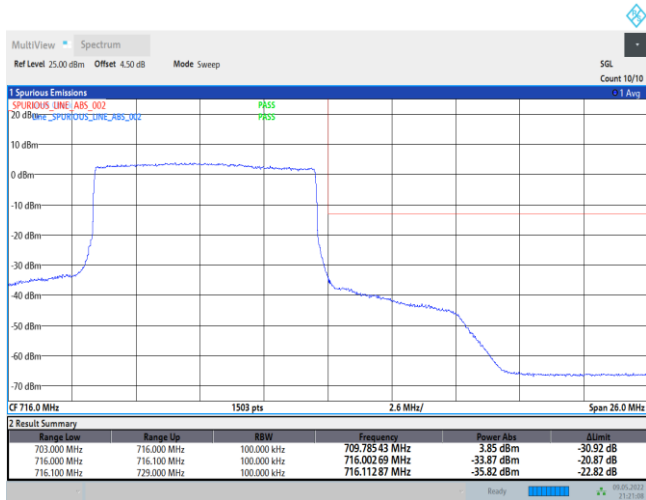
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Band12-10MHz-QPSK-23130-1RB#49



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



21:21:09 09.05.2022

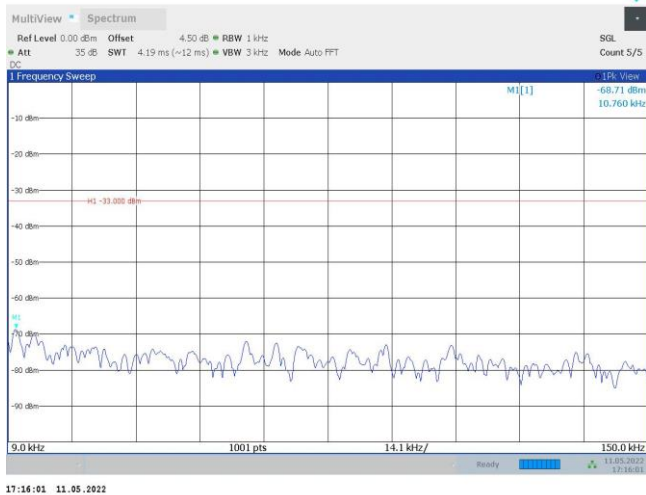


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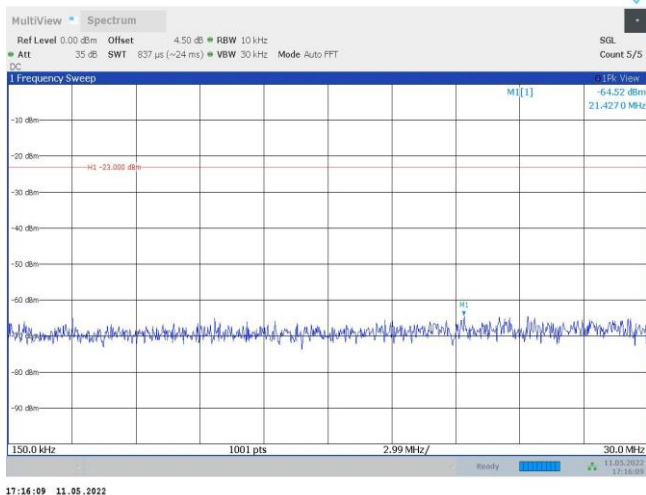
Conducted Spurious Emission

Test Graphs

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

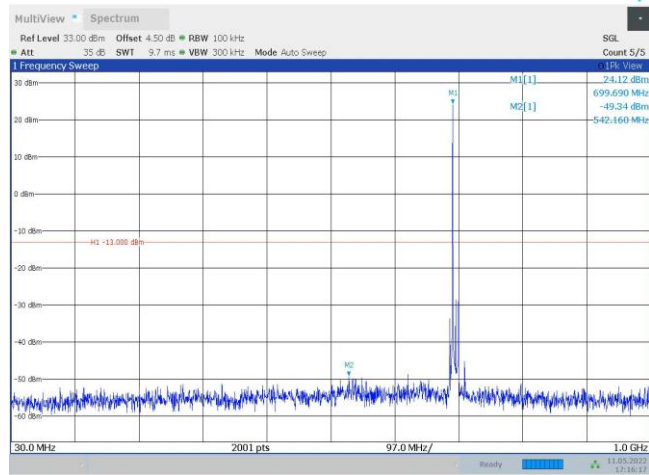


Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



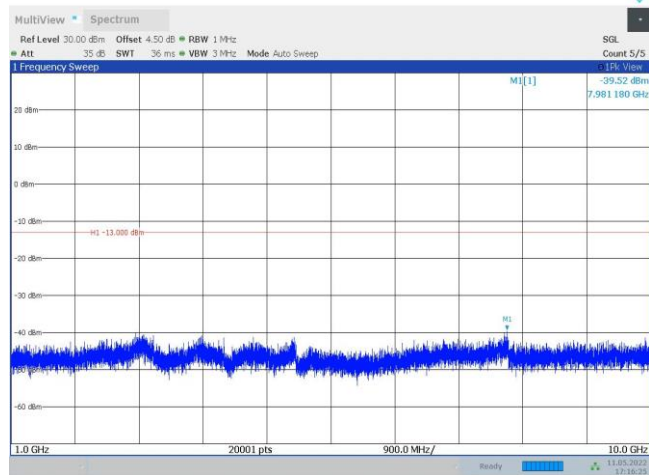
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



17:14:17 11.05.2022

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

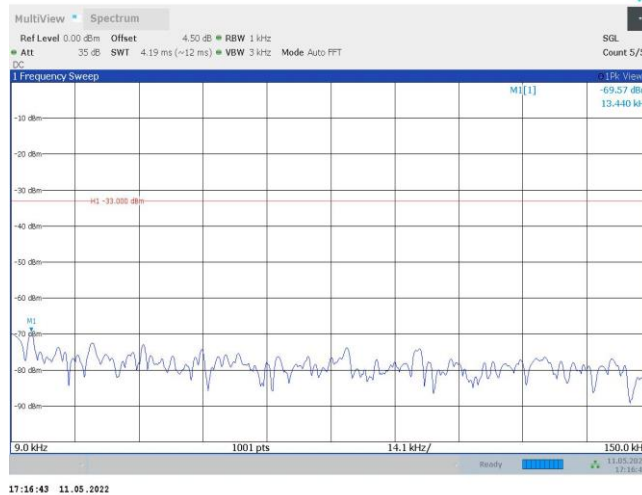


17:14:25 11.05.2022

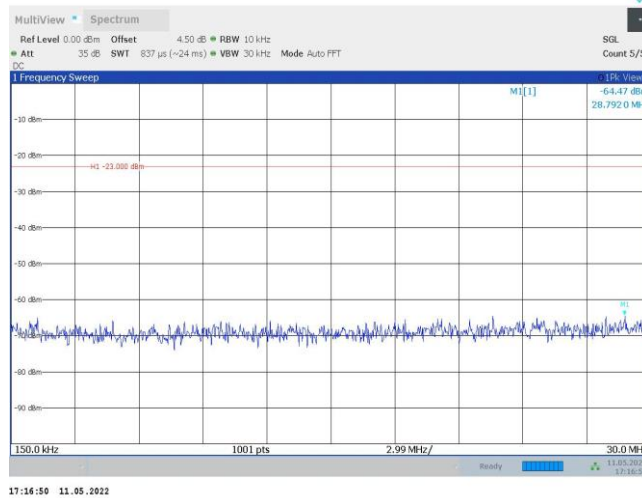


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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz

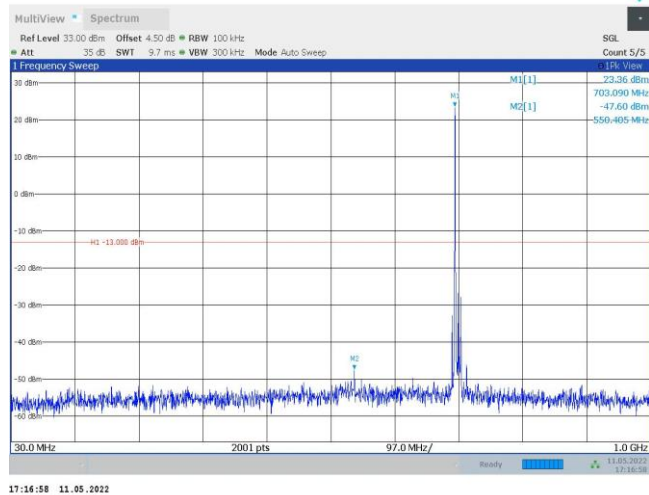


Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



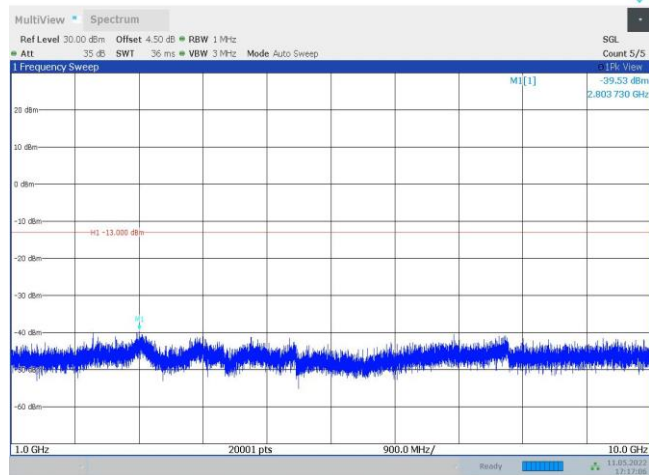
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



17:16:58 11.05.2022

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



17:17:06 11.05.2022



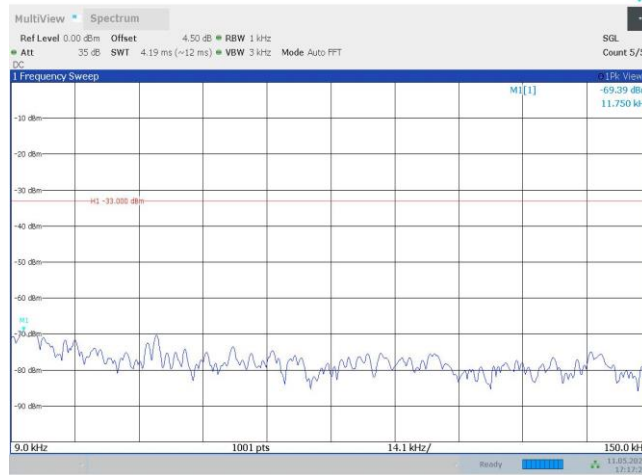
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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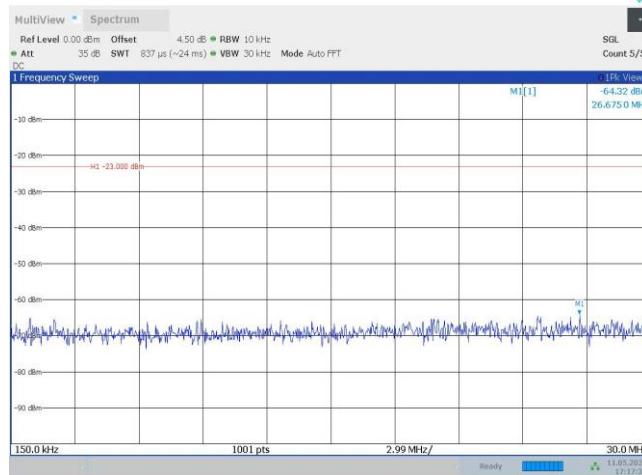
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



17:17:24 11.05.2022

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

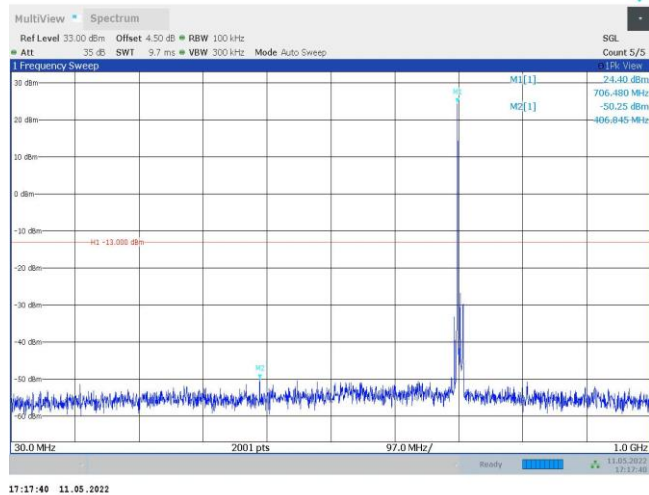


17:17:32 11.05.2022



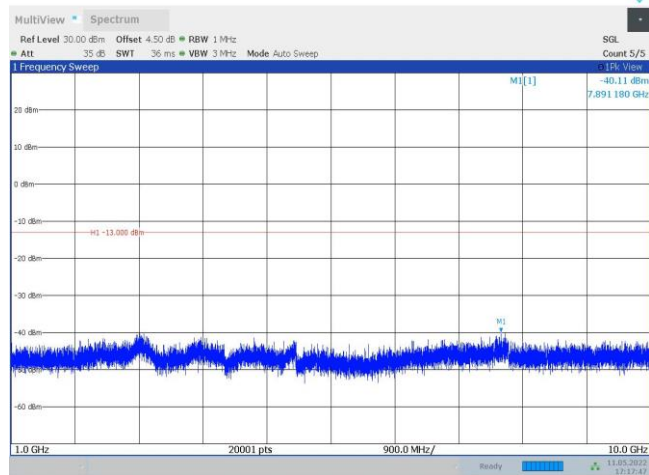
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



17:17:40 11.05.2022

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



17:17:48 11.05.2022



Field Strength of Spurious Radiation

Test Band = LTE Band 12_ 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	58.16	-117.64	-59.48	-13.00	46.48	158	138	Horizontal
2	2098.7700	66.11	-115.99	-49.88	-13.00	36.88	169	354	Horizontal
3	2798.3600	51.71	-113.70	-61.99	-13.00	48.99	142	125	Horizontal
4	3497.9500	50.67	-112.28	-61.61	-13.00	48.61	231	24	Horizontal
5	4197.5400	52.41	-110.12	-57.71	-13.00	44.71	102	296	Horizontal
6	4897.1300	50.62	-108.25	-57.63	-13.00	44.63	188	55	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	53.73	-117.64	-63.91	-13.00	50.91	187	124	Vertical
2	2098.7700	58.36	-115.99	-57.63	-13.00	44.63	194	209	Vertical
3	2798.3600	50.73	-113.70	-62.97	-13.00	49.97	172	211	Vertical
4	3497.9500	51.96	-112.28	-60.32	-13.00	47.32	215	306	Vertical
5	4197.5400	49.53	-110.12	-60.59	-13.00	47.59	123	11	Vertical
6	4897.1300	51.18	-108.25	-57.07	-13.00	44.07	208	178	Vertical



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Test Band = LTE Band 12_ 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	70.83	-117.67	-46.84	-13.00	33.84	288	236	Horizontal
2	2109.2700	59.73	-115.94	-56.21	-13.00	43.21	164	257	Horizontal
3	2812.3600	53.00	-113.60	-60.60	-13.00	47.60	195	214	Horizontal
4	3515.4500	51.46	-112.23	-60.77	-13.00	47.77	172	33	Horizontal
5	4218.5400	50.59	-110.05	-59.46	-13.00	46.46	211	330	Horizontal
6	4921.6300	49.35	-108.23	-58.88	-13.00	45.88	201	76	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	60.75	-117.67	-56.92	-13.00	43.92	255	207	Vertical
2	2109.2700	59.69	-115.94	-56.25	-13.00	43.25	142	240	Vertical
3	2812.3600	52.13	-113.60	-61.47	-13.00	48.47	199	132	Vertical
4	3515.4500	52.79	-112.23	-59.44	-13.00	46.44	172	240	Vertical
5	4218.5400	51.09	-110.05	-58.96	-13.00	45.96	201	356	Vertical
6	4921.6300	51.09	-108.23	-57.14	-13.00	44.14	233	186	Vertical



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Test Band = LTE Band 12_ 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	67.54	-117.70	-50.16	-13.00	37.16	211	21	Horizontal
2	2119.7700	66.33	-115.90	-49.57	-13.00	36.57	195	199	Horizontal
3	2826.3600	53.44	-113.49	-60.05	-13.00	47.05	172	21	Horizontal
4	3532.9500	53.48	-112.18	-58.70	-13.00	45.70	201	166	Horizontal
5	4239.5400	50.92	-109.97	-59.05	-13.00	46.05	133	146	Horizontal
6	4946.1300	51.58	-108.22	-56.64	-13.00	43.64	255	135	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1429	56.32	-117.70	-61.38	-13.00	48.38	251	97	Vertical
2	2119.4286	61.13	-115.91	-54.78	-13.00	41.78	169	288	Vertical
3	2826.3600	53.39	-113.49	-60.10	-13.00	47.10	176	76	Vertical
4	3532.9500	53.23	-112.18	-58.95	-13.00	45.95	235	192	Vertical
5	4239.5400	51.97	-109.97	-58.00	-13.00	45.00	133	24	Vertical
6	4946.1300	51.67	-108.22	-56.55	-13.00	43.55	165	234	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	1.50	0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	3.90	0.005512	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-1.10	-0.001555	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	3.20	0.004523	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.50	0.000707	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	1.40	0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	2.60	0.003675	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.20	-0.001696	PASS

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