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	23.48	24.33	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.78	24.63	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.72	24.57	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.64	23.49	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.41	24.26	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.47	24.32	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.35	24.2	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.51	23.36	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.3	24.15	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.68	24.53	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.52	24.37	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.47	23.32	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.8	23.65	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.04	23.89	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.13	23.98	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.73	22.58	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.62	23.47	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.28	23.13	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.48	23.33	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.52	22.37	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.47	23.32	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.25	23.1	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.44	23.29	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.44	22.29	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.4	24.25	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.51	24.36	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.37	24.22	34.77	PASS

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Band12	3MHz	QPSK	23025	15RB#0	22.67	23.52	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.53	24.38	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.54	24.39	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.31	24.16	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.62	23.47	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.27	24.12	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.61	24.46	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.45	24.3	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.51	23.36	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.49	23.34	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.33	23.18	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.6	23.45	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.61	22.46	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.5	23.35	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.29	23.14	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.66	23.51	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.59	22.44	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.42	23.27	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.25	23.1	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.47	23.32	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.54	22.39	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.27	24.12	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.56	24.41	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.18	24.03	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.54	23.39	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.49	24.34	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.45	24.3	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.53	24.38	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.61	23.46	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.45	24.3	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.7	24.55	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.34	24.19	34.77	PASS

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Band12	5MHz	QPSK	23155	25RB#0	22.5	23.35	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.5	23.35	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.43	23.28	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.18	23.03	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.51	22.36	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.42	23.27	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.38	23.23	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.97	23.82	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.56	22.41	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.38	23.23	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	23.05	23.9	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.35	23.2	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.79	22.64	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.34	24.19	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.52	24.37	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.38	24.23	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.55	23.4	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.26	24.11	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.76	24.61	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.47	24.32	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.61	23.46	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.44	24.29	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.74	24.59	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.37	24.22	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.64	23.49	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.37	23.22	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.19	23.04	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.35	23.2	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.6	22.45	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.34	23.19	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.25	24.1	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.35	23.2	34.77	PASS

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Band12	10MHz	16QAM	23095	50RB#0	21.52	22.37	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.34	23.19	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.17	24.02	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.28	23.13	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.54	22.39	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	5.54	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.16	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.38	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.28	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.00	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.02	13	PASS

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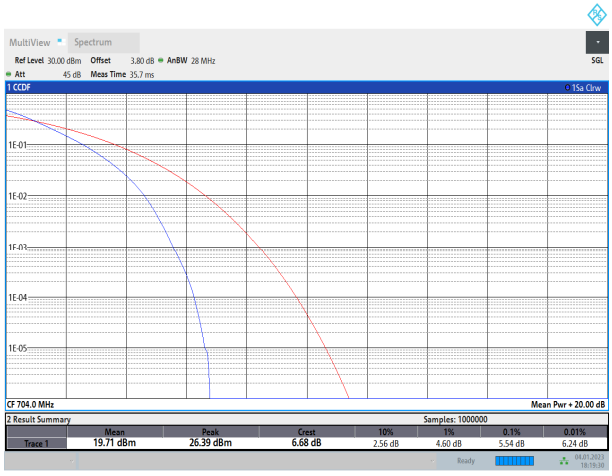
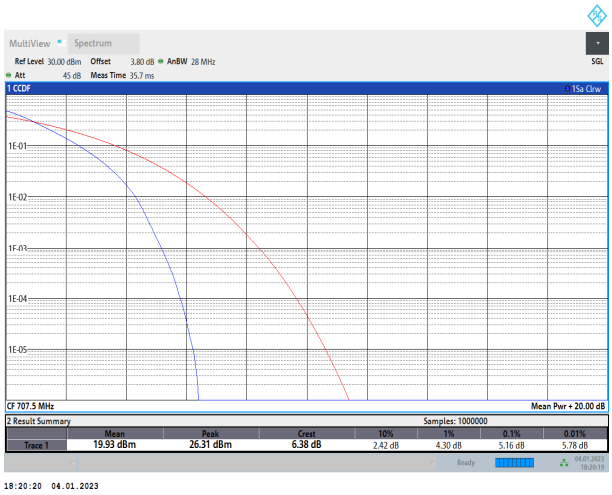
Test Graphs

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



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



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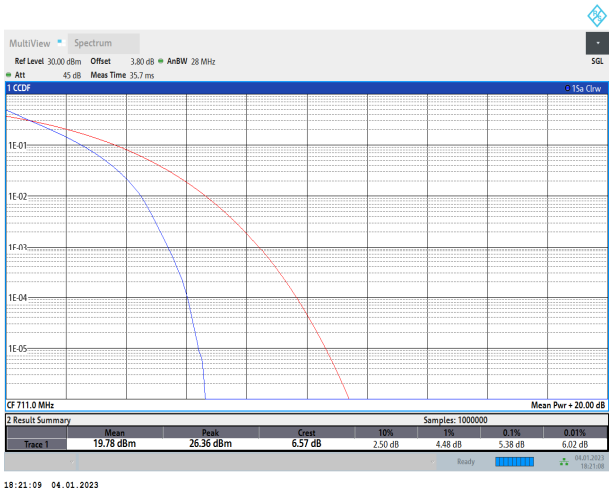
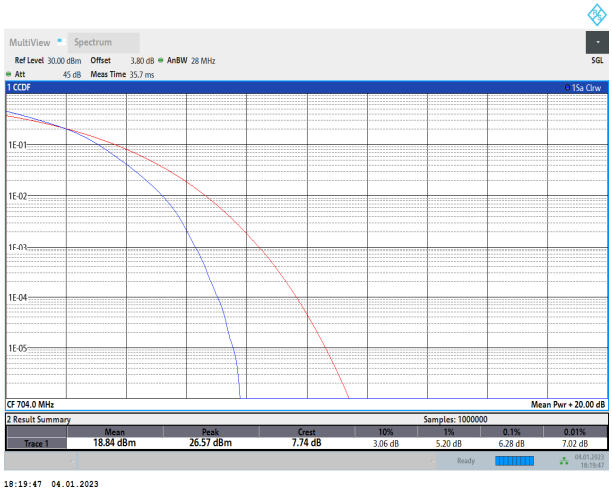
Band12-10MHz-QPSK-23130-50RB#0



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



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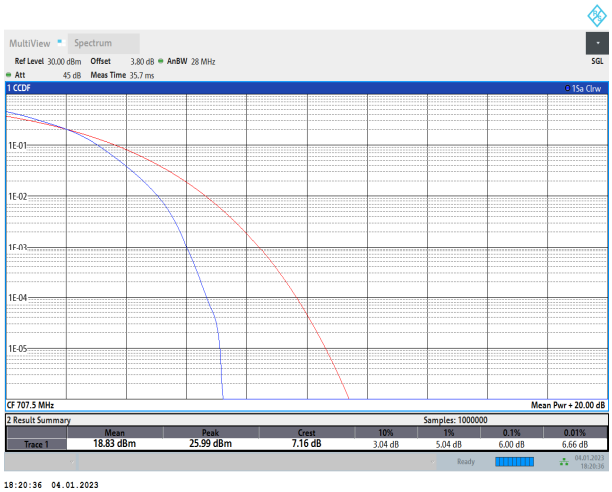
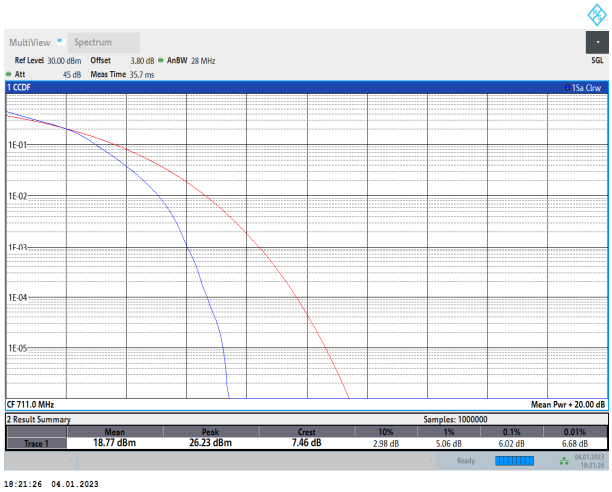
Band12-10MHz-16QAM-23095-50RB#0



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



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Modulation Characteristics

Test Result

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

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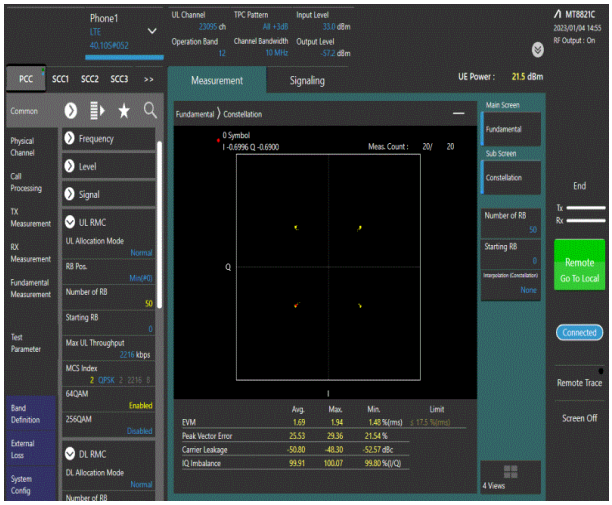
Test Graphs

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

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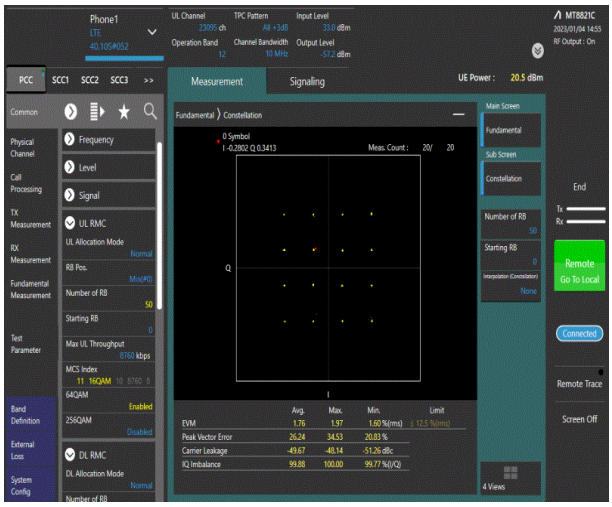

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.087	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.097	1.31	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.697	2.95	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.692	2.96	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.688	2.96	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.687	2.96	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.685	2.97	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.688	2.97	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.471	4.92	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.457	4.87	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.47	4.90	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.466	4.94	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.457	4.88	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.466	4.95	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.946	9.72	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.892	9.58	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.927	9.70	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.919	9.70	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.871	9.60	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.903	9.68	PASS

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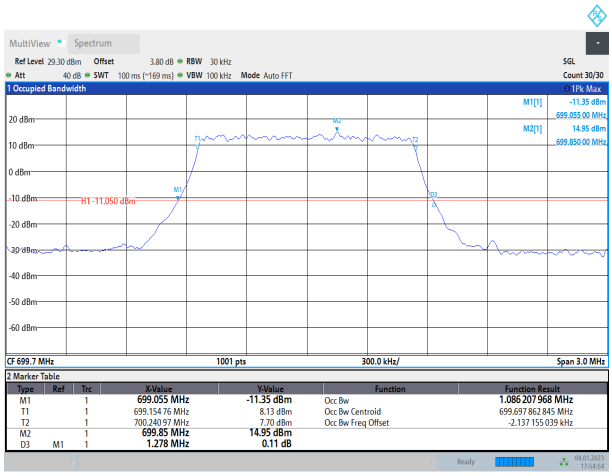
Test Graphs

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



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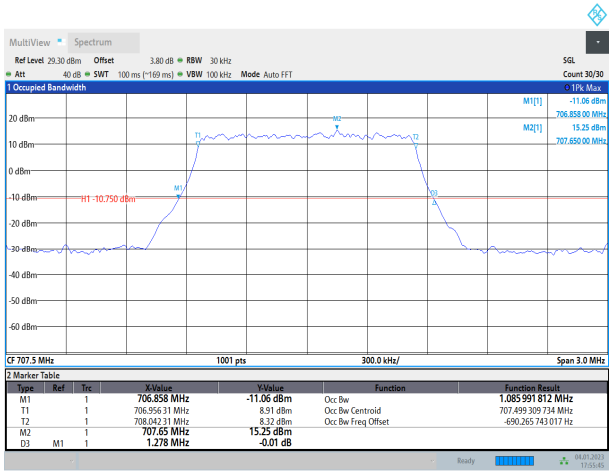

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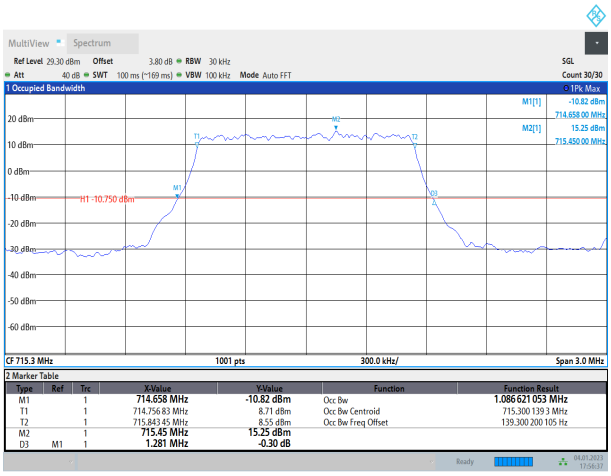
Band12-1.4MHz-QPSK-23173-6RB#0



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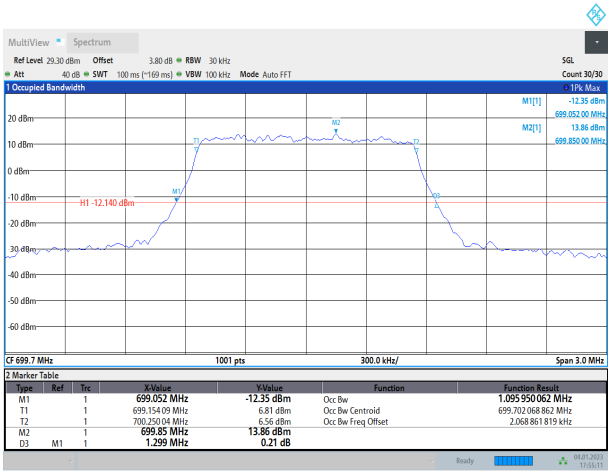

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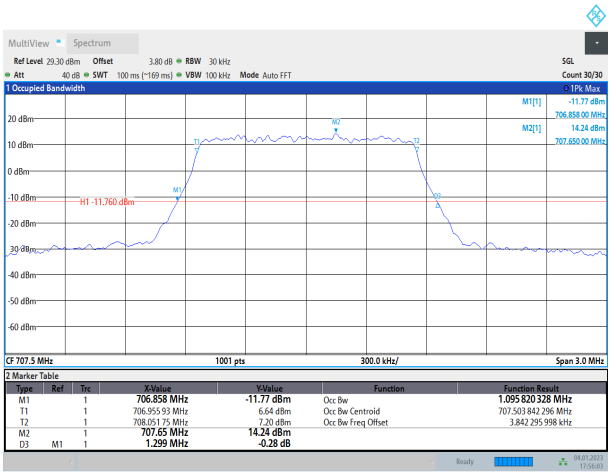
Band12-1.4MHz-16QAM-23095-6RB#0



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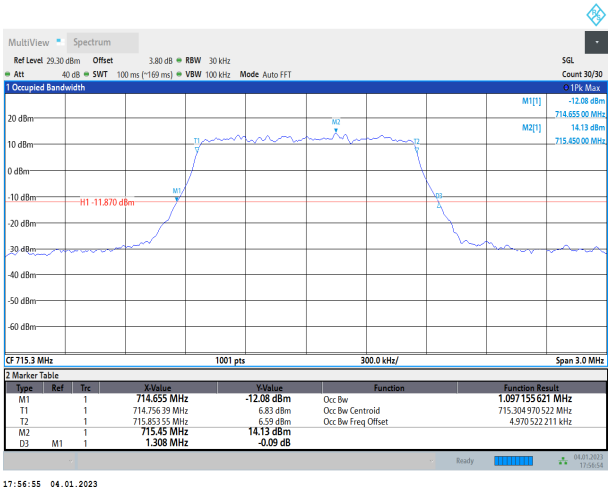

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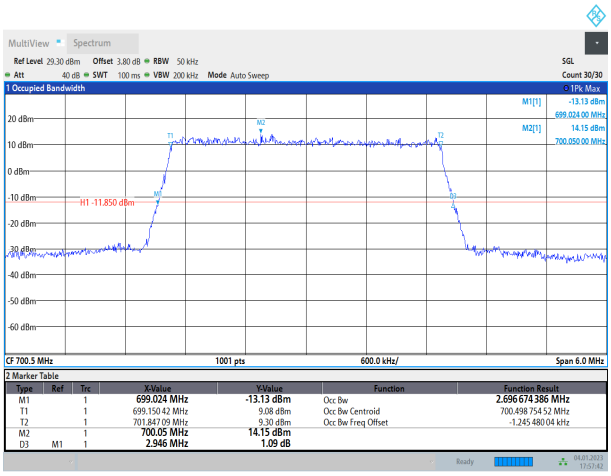
Band12-3MHz-QPSK-23025-15RB#0



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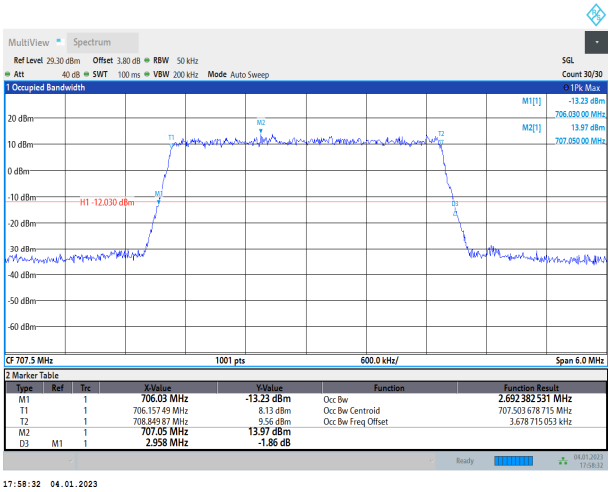

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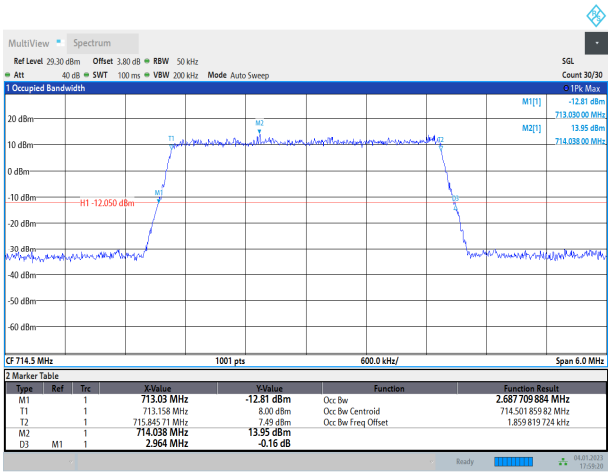

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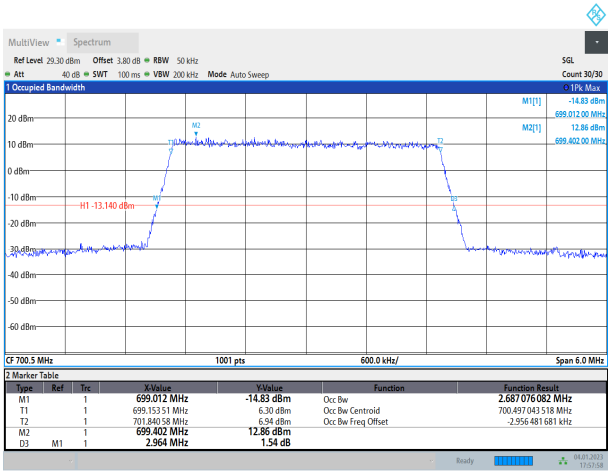

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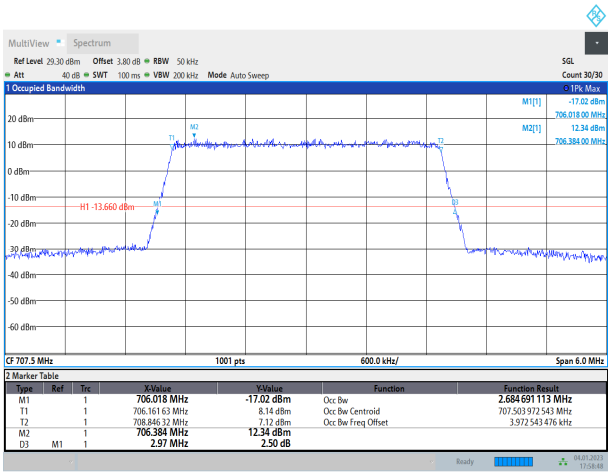

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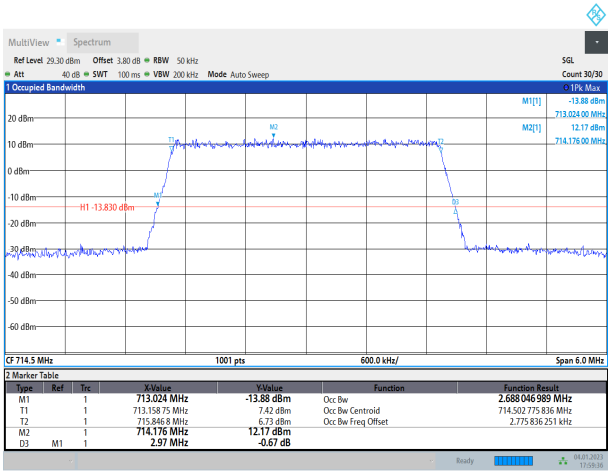

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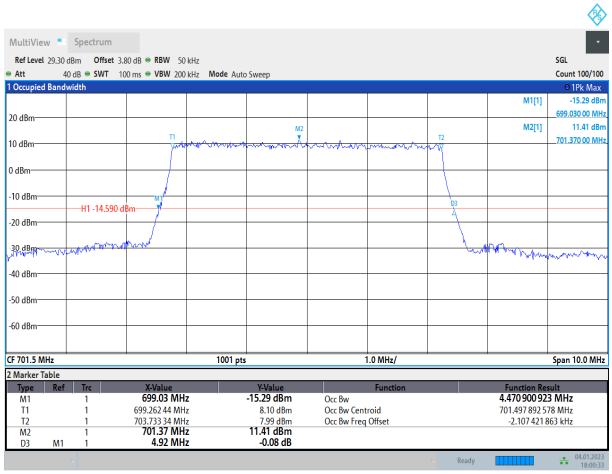

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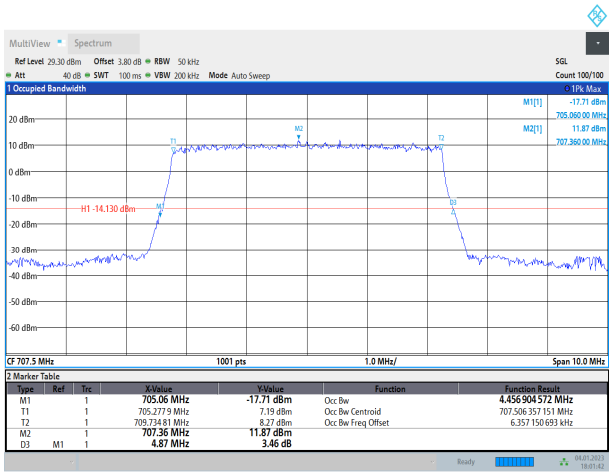
Band12-5MHz-QPSK-23095-25RB#0



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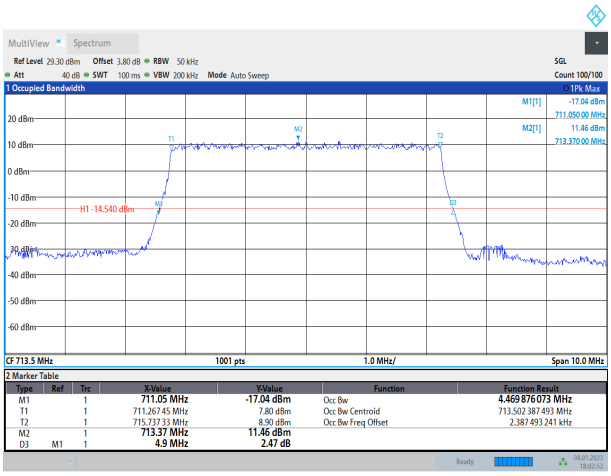

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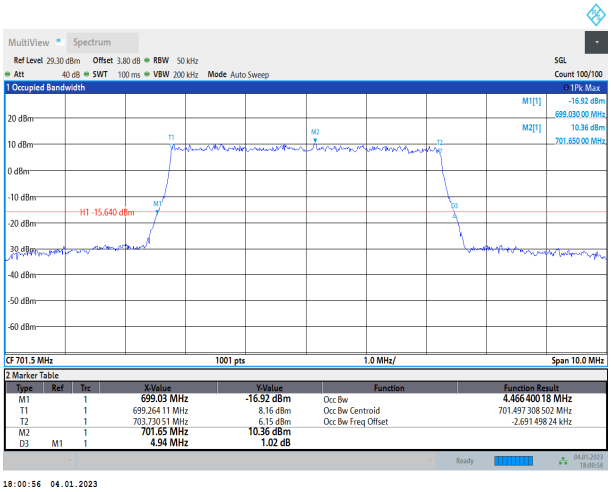

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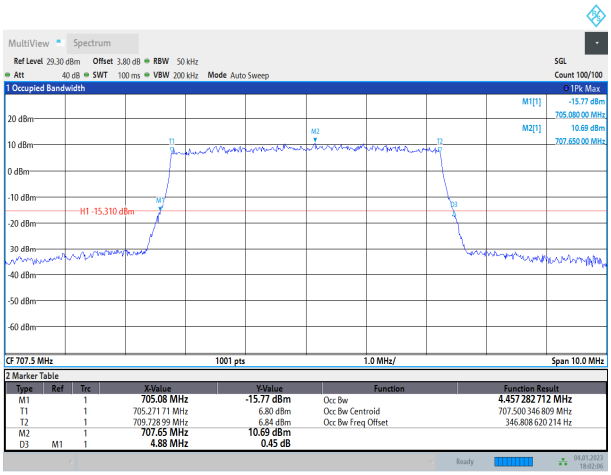

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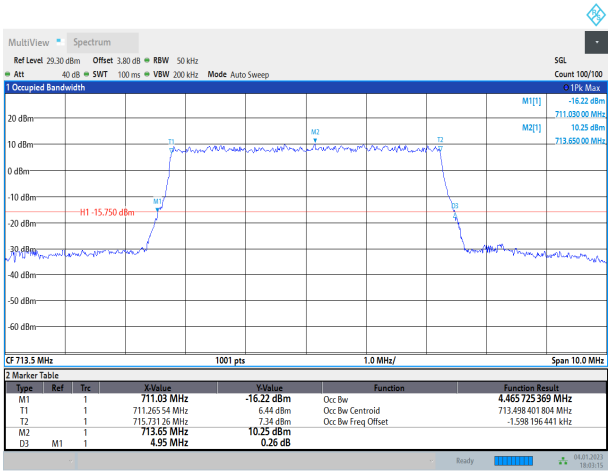

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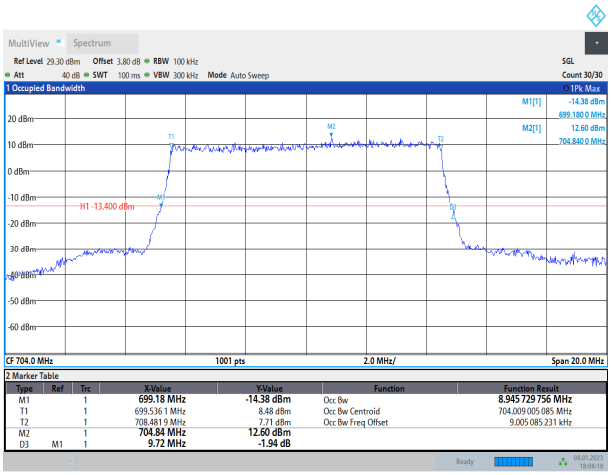
Band12-10MHz-QPSK-23060-50RB#0



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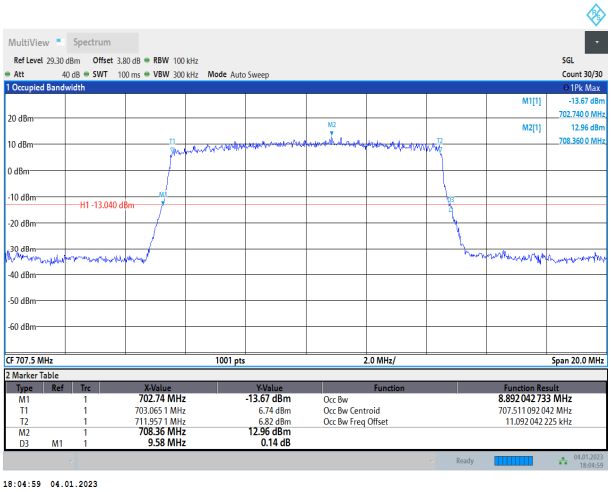

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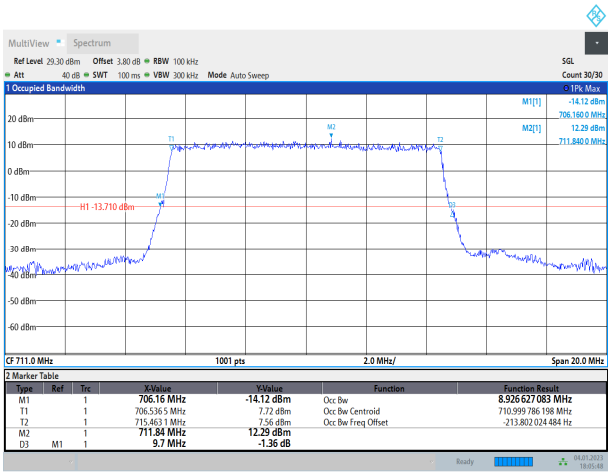
Band12-10MHz-QPSK-23130-50RB#0



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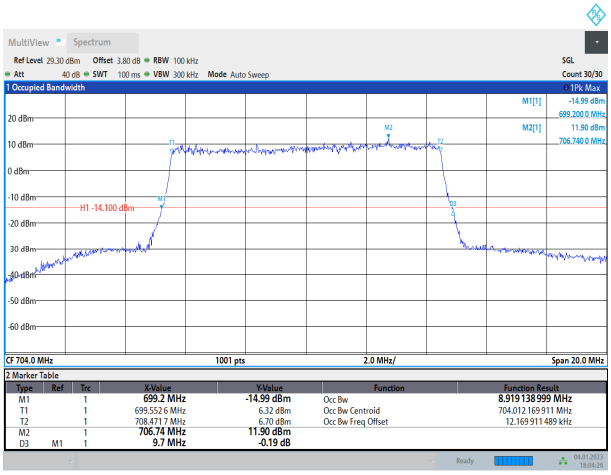

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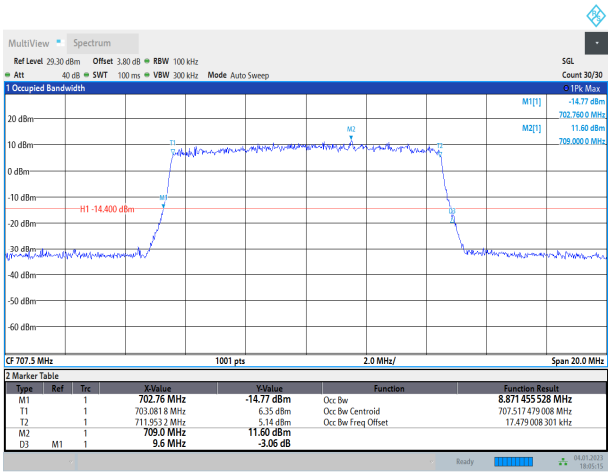

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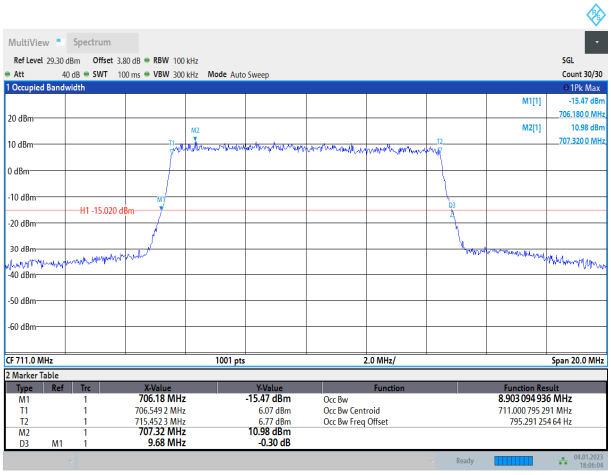

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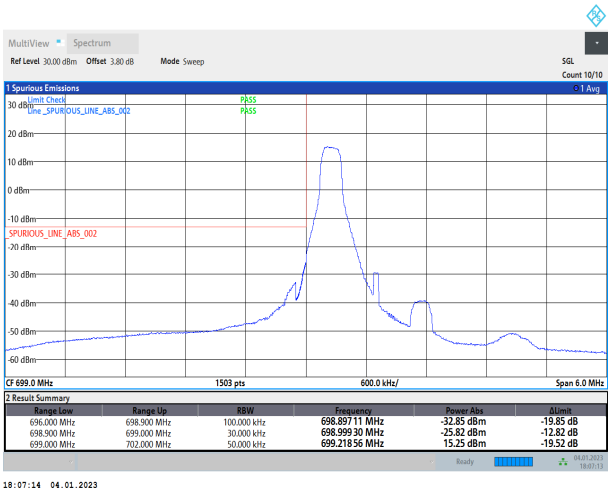
Band Edge

Test Graphs

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



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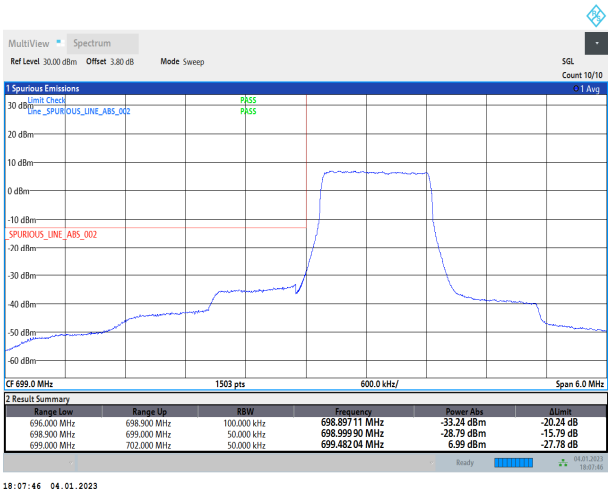

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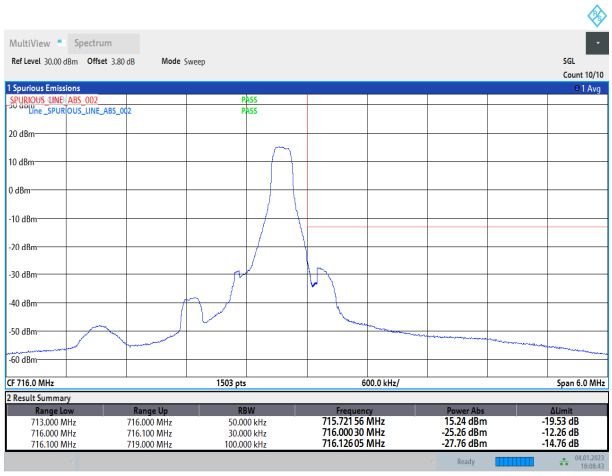
Band12-1.4MHz-QPSK-23173-1RB#5



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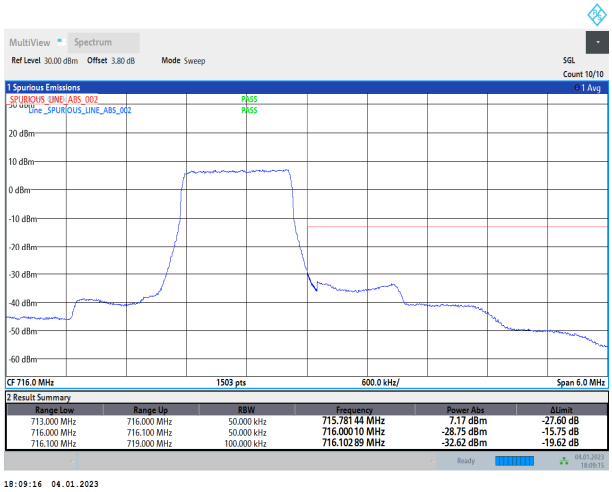

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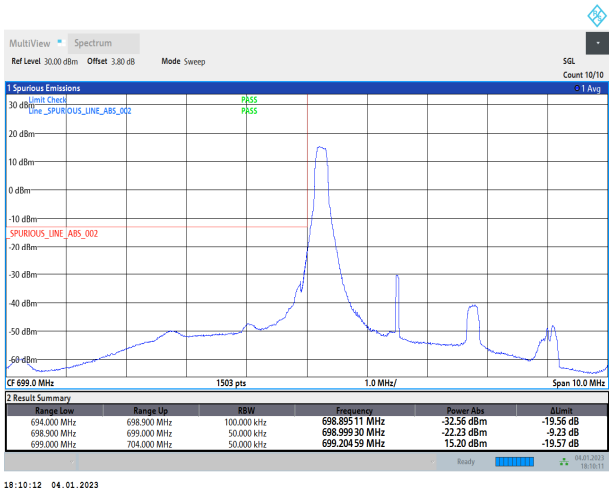

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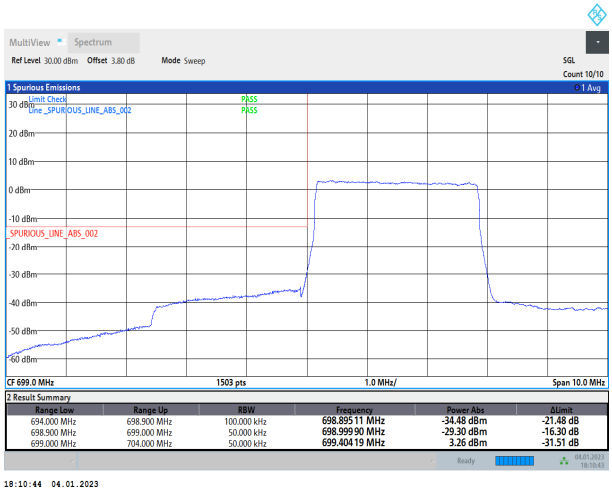

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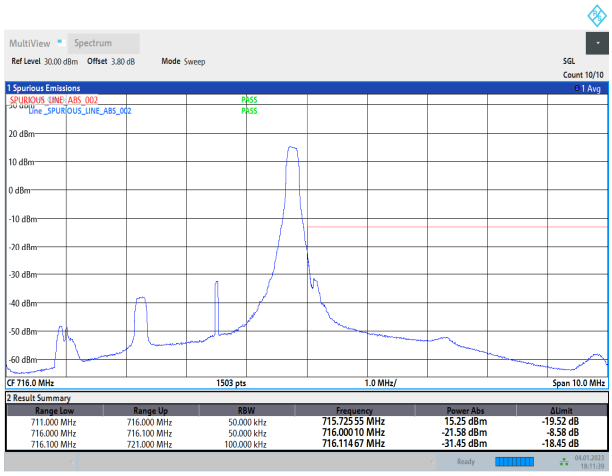
Band12-3MHz-QPSK-23165-1RB#14



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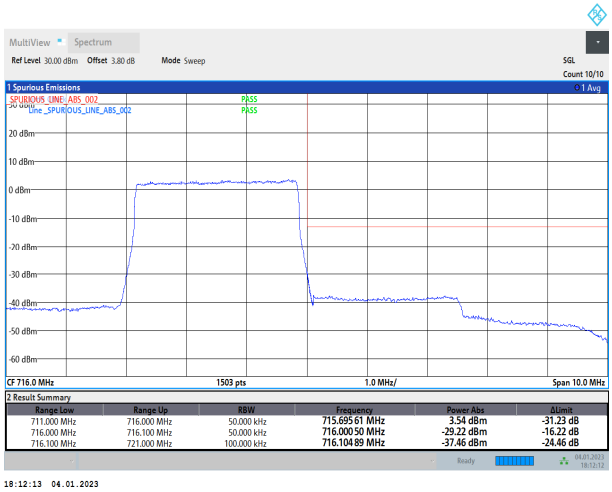

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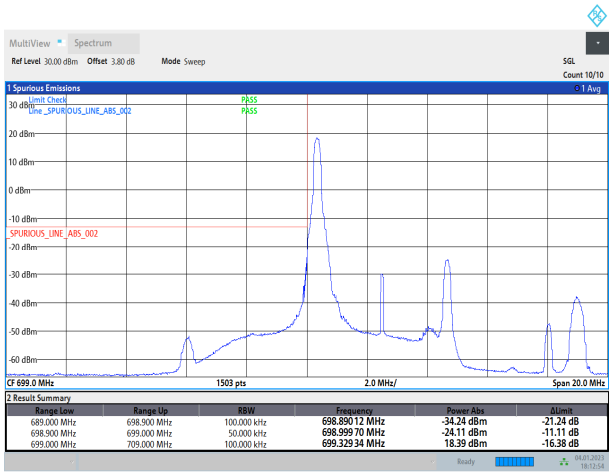
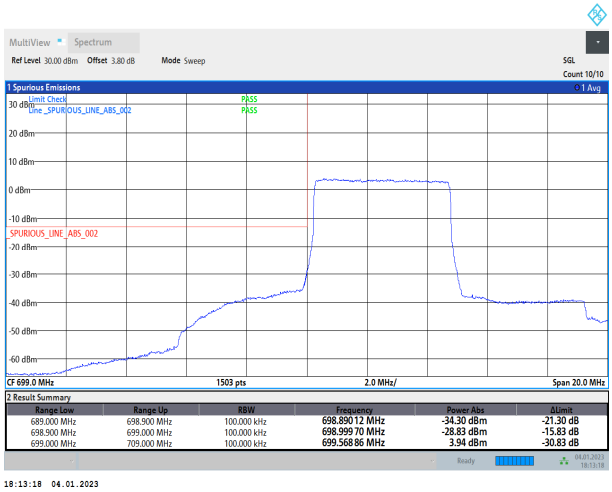


Band12-5MHz-QPSK-23035-25RB#0



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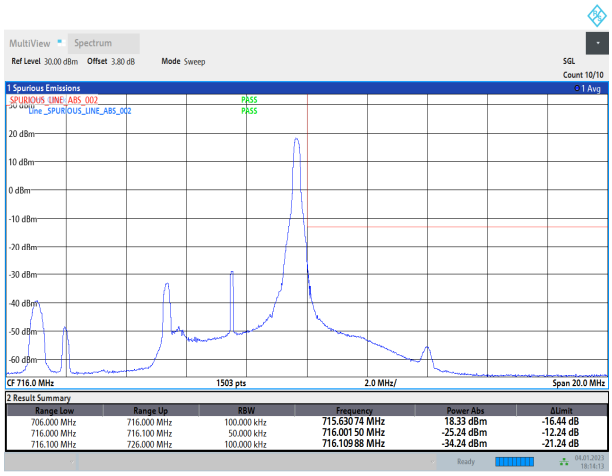
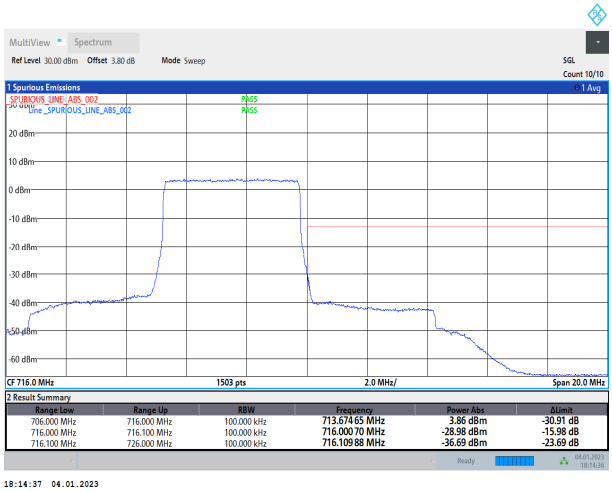
Band12-5MHz-QPSK-23155-1RB#24



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



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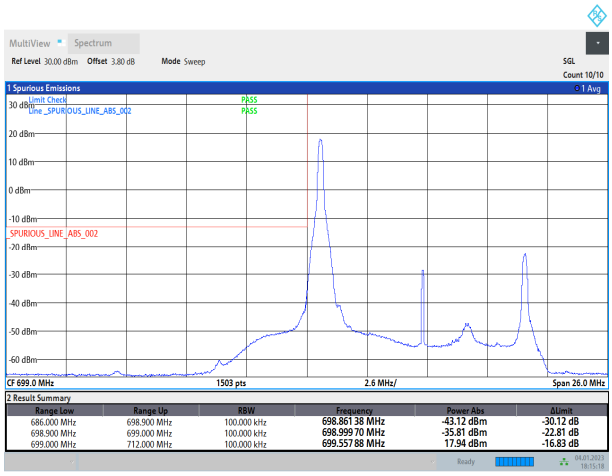
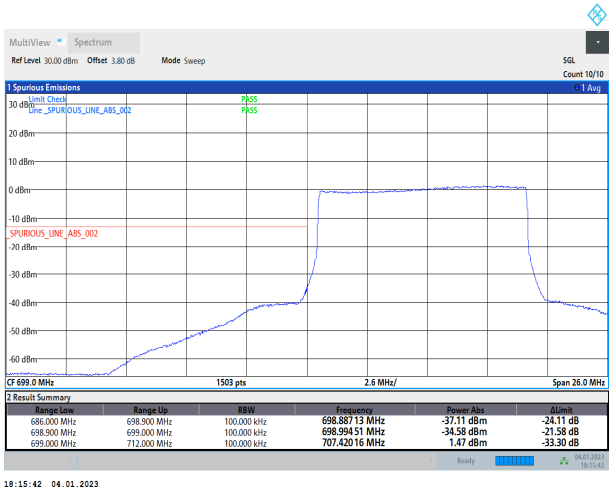
Band12-10MHz-QPSK-23060-1RB#0



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



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检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Wireless Laboratory

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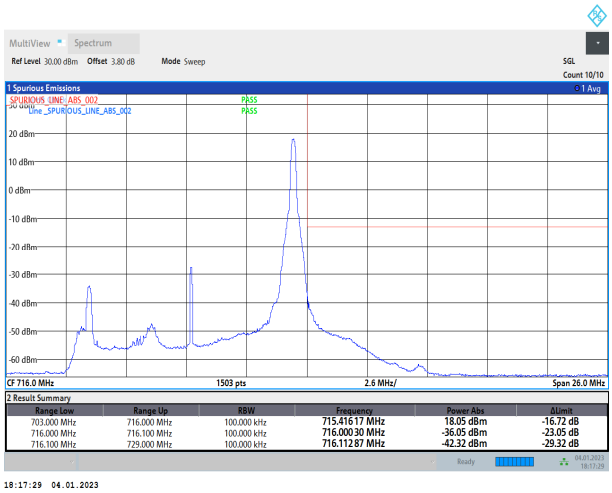
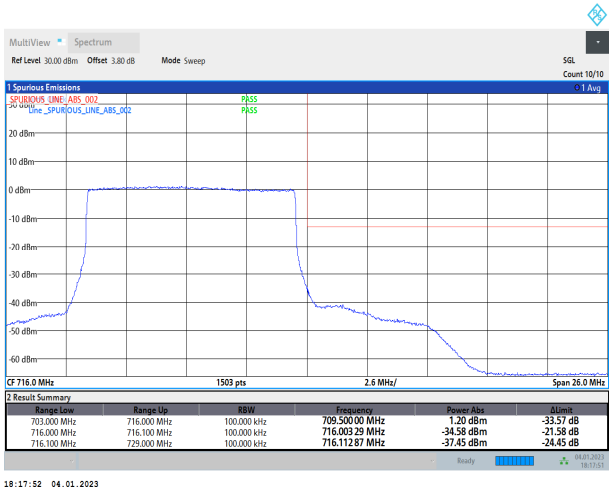
Band12-10MHz-QPSK-23130-1RB#49



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



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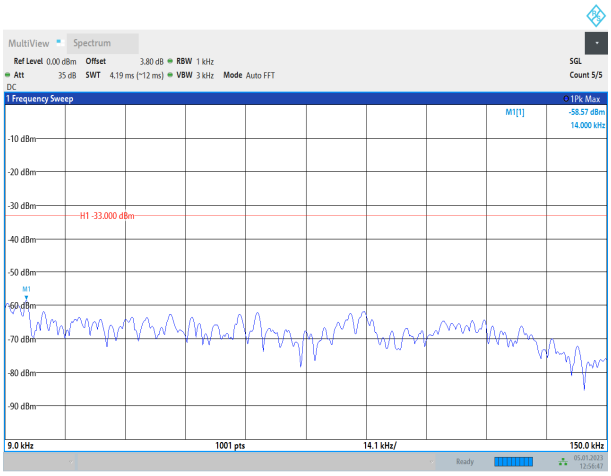
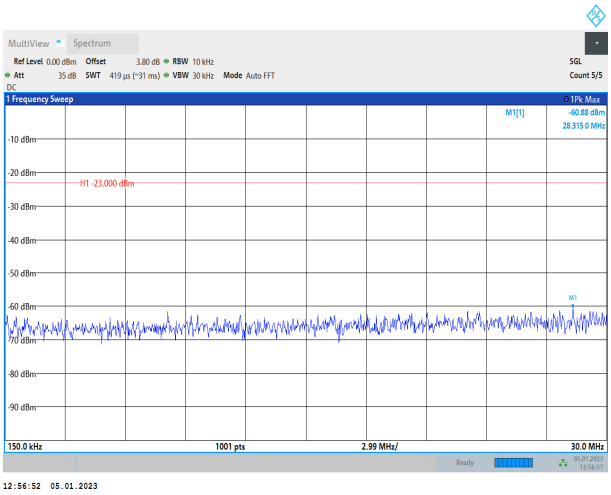
Conducted Spurious Emission

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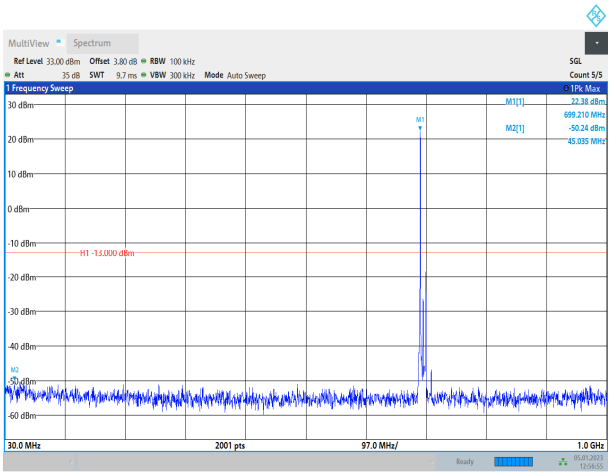
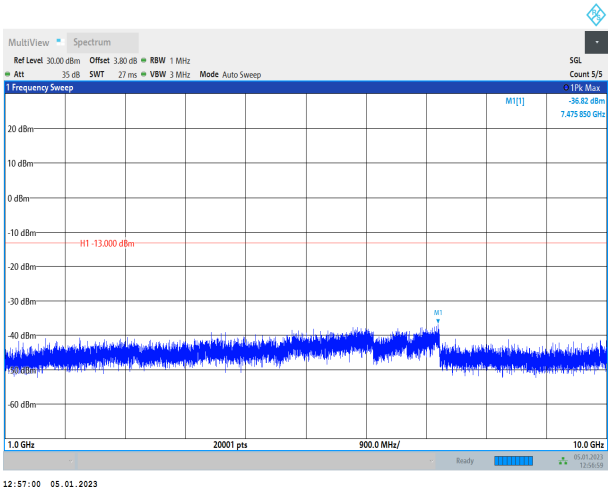
Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



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



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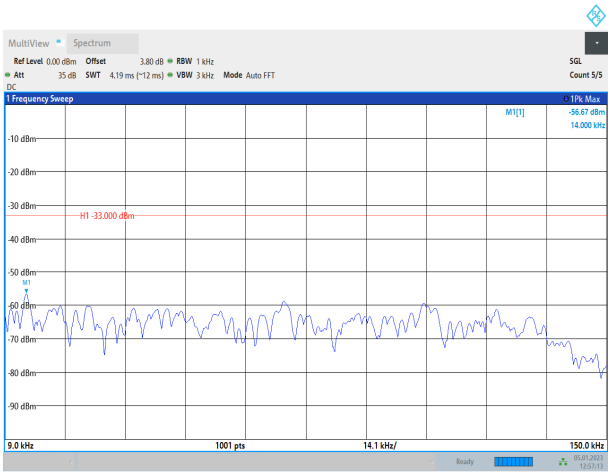
Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



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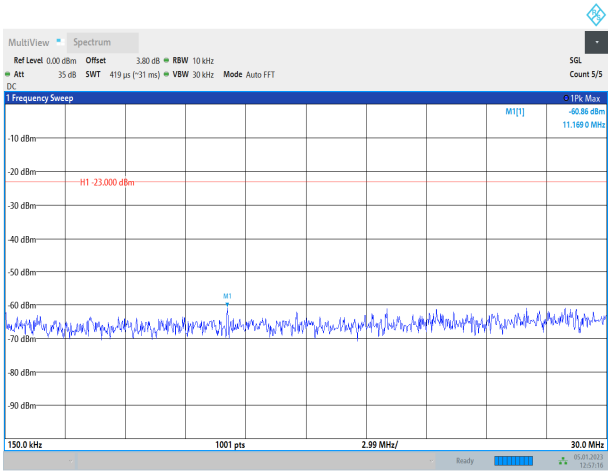
Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



12:57:17 05.01.2023

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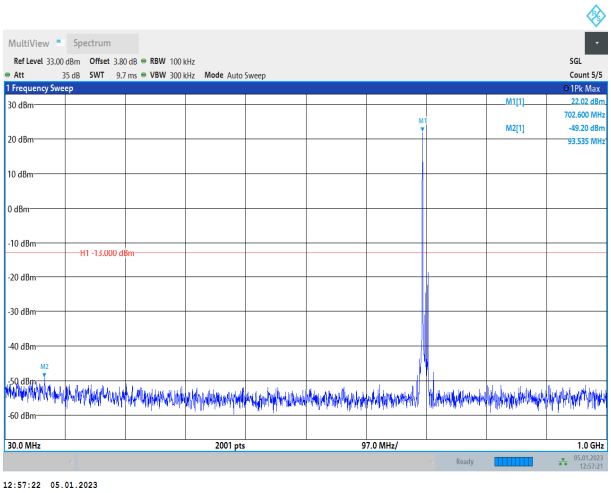
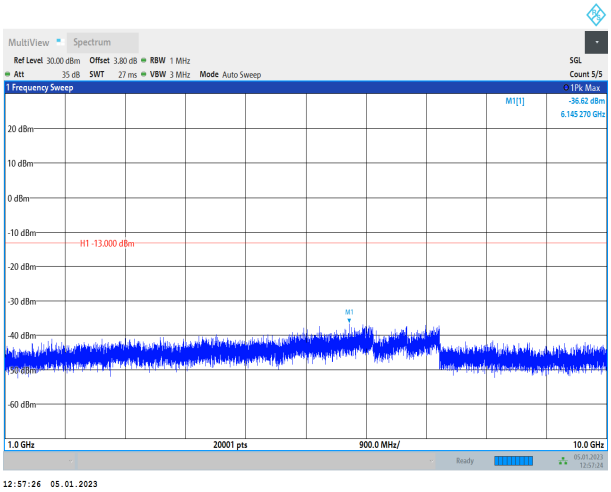
Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



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



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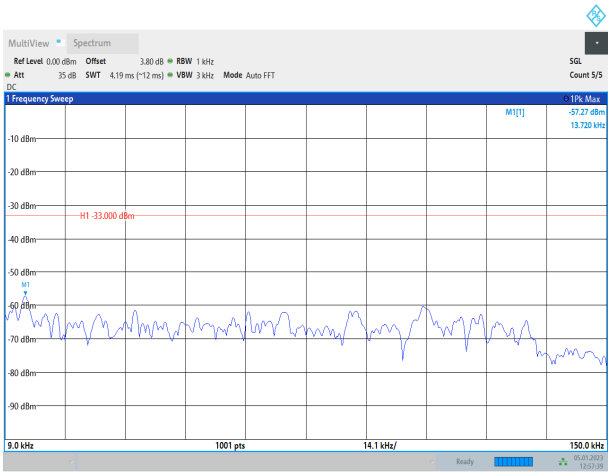
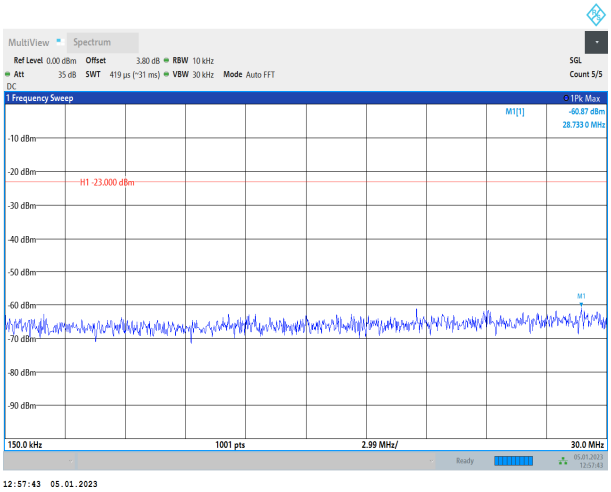
Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



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



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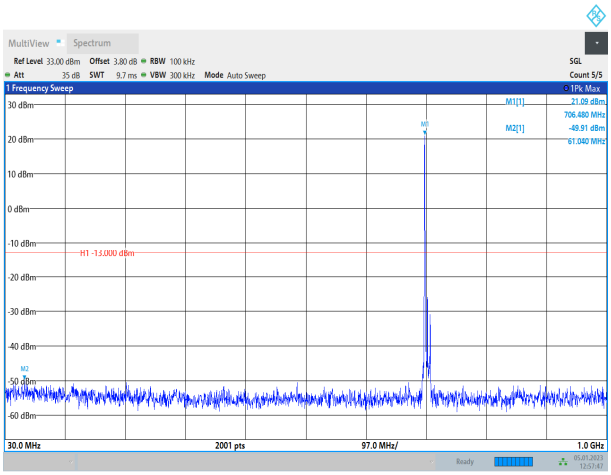
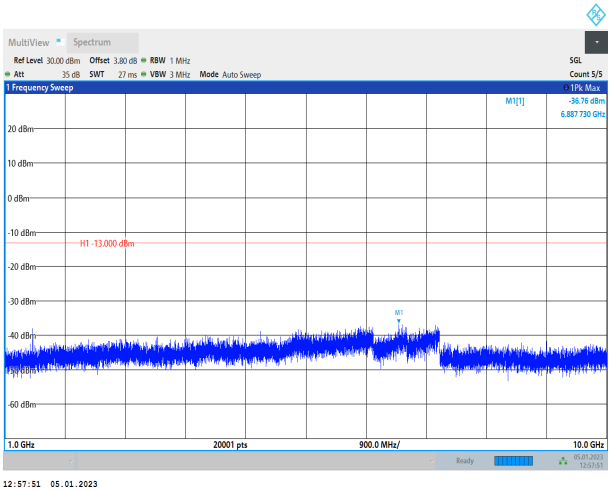
Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band12_ 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	53.74	-48.00	25.62	-63.90	-13.00	50.90	174	28	Horizontal
2	2098.7700	43.06	-47.71	26.99	-72.93	-13.00	59.93	122	240	Horizontal
3	2798.3600	42.44	-46.92	28.48	-71.26	-13.00	58.26	251	335	Horizontal
4	3497.9500	42.16	-46.54	29.52	-70.12	-13.00	57.12	148	67	Horizontal
5	4197.5400	41.28	-45.96	31.10	-68.84	-13.00	55.84	198	108	Horizontal
6	4897.1300	41.77	-45.58	32.59	-66.48	-13.00	53.48	185	360	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	44.93	-48.00	25.62	-72.71	-13.00	59.71	233	97	Vertical
2	2098.7700	42.59	-47.71	26.99	-73.40	-13.00	60.40	215	356	Vertical
3	2798.3600	42.55	-46.92	28.48	-71.15	-13.00	58.15	145	203	Vertical
4	3497.9500	42.13	-46.54	29.52	-70.15	-13.00	57.15	129	0	Vertical
5	4197.5400	40.91	-45.96	31.10	-69.21	-13.00	56.21	156	203	Vertical
6	4897.1300	41.01	-45.58	32.59	-67.24	-13.00	54.24	182	44	Vertical

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Test Band = LTE Band12_ 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	53.54	-48.02	25.61	-64.13	-13.00	51.13	166	25	Horizontal
2	2109.2700	42.74	-47.71	27.02	-73.20	-13.00	60.20	254	3	Horizontal
3	2812.3600	41.96	-46.88	28.53	-71.64	-13.00	58.64	189	92	Horizontal
4	3515.4500	41.54	-46.51	29.53	-70.69	-13.00	57.69	195	25	Horizontal
5	4218.5400	41.09	-45.93	31.14	-68.96	-13.00	55.96	174	351	Horizontal
6	4921.6300	41.84	-45.63	32.66	-66.39	-13.00	53.39	182	25	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	46.02	-48.02	25.61	-71.65	-13.00	58.65	126	228	Vertical
2	2109.2700	42.25	-47.71	27.02	-73.69	-13.00	60.69	254	228	Vertical
3	2812.3600	42.54	-46.88	28.53	-71.06	-13.00	58.06	145	163	Vertical
4	3515.4500	41.95	-46.51	29.53	-70.28	-13.00	57.28	183	41	Vertical
5	4218.5400	41.26	-45.93	31.14	-68.79	-13.00	55.79	259	189	Vertical
6	4921.6300	41.10	-45.63	32.66	-67.13	-13.00	54.13	291	81	Vertical

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Test Band = LTE Band12_ 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	56.38	-48.04	25.60	-61.32	-13.00	48.32	122	145	Horizontal
2	2119.7700	42.20	-47.70	27.06	-73.70	-13.00	60.70	253	3	Horizontal
3	2826.3600	42.44	-46.83	28.60	-71.05	-13.00	58.05	266	65	Horizontal
4	3532.9500	41.88	-46.47	29.55	-70.30	-13.00	57.30	214	279	Horizontal
5	4239.5400	40.79	-45.89	31.18	-69.18	-13.00	56.18	182	304	Horizontal
6	4946.1300	41.05	-45.69	32.73	-67.17	-13.00	54.17	190	356	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	46.50	-48.04	25.60	-71.20	-13.00	58.20	148	84	Vertical
2	2119.7700	42.62	-47.70	27.06	-73.28	-13.00	60.28	126	270	Vertical
3	2826.3600	42.64	-46.83	28.60	-70.85	-13.00	57.85	251	148	Vertical
4	3532.9500	41.88	-46.47	29.55	-70.30	-13.00	57.30	111	283	Vertical
5	4239.5400	41.25	-45.89	31.18	-68.72	-13.00	55.72	302	110	Vertical
6	4946.1300	41.41	-45.69	32.73	-66.81	-13.00	53.81	153	322	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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	0.70	0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-0.30	-0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	1.70	0.002403	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	1.70	0.002403	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	1.60	0.002261	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-0.50	-0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	1.10	0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	1.30	0.001837	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	0.00	0.000000	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	0.90	0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	1.10	0.001555	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.10	0.000141	PASS

---End of Attachment---

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