

Report No.: SEWA2307000102RG01

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Appendix B.7

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	23.69	24.80	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.78	24.89	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.82	24.93	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.74	23.85	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.85	24.96	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.88	24.99	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.84	24.95	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.79	23.90	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.79	24.90	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.85	24.96	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.79	24.90	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.97	24.08	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.92	24.03	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	23.07	24.18	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	23.17	24.28	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.81	22.92	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	23.19	24.30	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	23.22	24.33	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	23.13	24.24	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.87	22.98	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	23.28	24.39	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	23.22	24.33	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	23.28	24.39	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	21.81	22.92	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.78	24.89	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.72	24.83	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.78	24.89	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	22.87	23.98	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.86	24.97	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.86	24.97	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.84	24.95	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.88	23.99	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.75	24.86	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.90	25.01	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.91	25.02	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.84	23.95	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.99	24.10	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	23.14	24.25	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	23.10	24.21	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.90	23.01	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	23.06	24.17	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	23.17	24.28	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	23.02	24.13	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.94	23.05	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	23.36	24.47	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	23.21	24.32	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.98	24.09	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.90	23.01	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.76	24.87	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.71	24.82	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.69	24.80	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.84	23.95	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.86	24.97	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.82	24.93	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.85	24.96	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.89	24.00	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.85	24.96	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.74	24.85	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.96	25.07	34.77	PASS



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Band12	5MHz	QPSK	23155	25RB#0	22.99	24.10	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#0	23.25	24.36	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	23.05	24.16	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	23.16	24.27	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	22.01	23.12	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	23.35	24.46	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	23.09	24.20	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	23.28	24.39	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.90	23.01	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.93	24.04	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.99	24.10	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	23.21	24.32	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	22.04	23.15	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	24.07	25.18	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.81	24.92	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.96	25.07	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	23.08	24.19	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	24.24	25.35	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.95	25.06	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	24.00	25.11	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	23.00	24.11	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	24.24	25.35	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.85	24.96	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.98	25.09	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	23.07	24.18	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	23.27	24.38	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	23.09	24.20	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	23.35	24.46	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.94	23.05	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	23.50	24.61	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	23.46	24.57	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	23.20	24.31	34.77	PASS



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Band12	10MHz	16QAM	23095	50RB#0	21.92	23.03	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	23.49	24.60	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#24	23.15	24.26	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	23.25	24.36	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	22.09	23.20	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	5.32	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.22	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.36	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.16	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.08	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	6.08	13	PASS

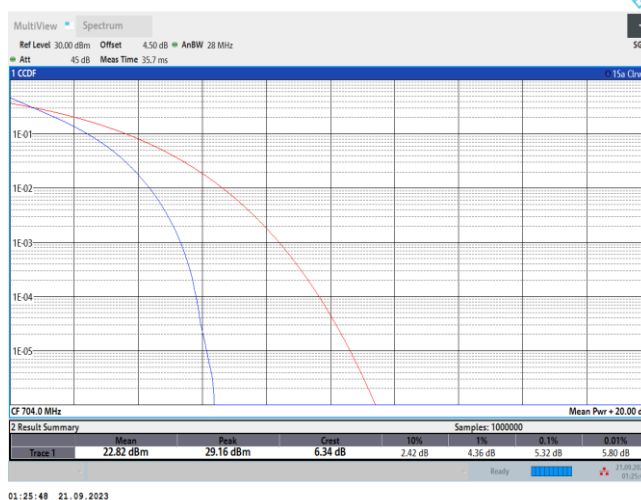


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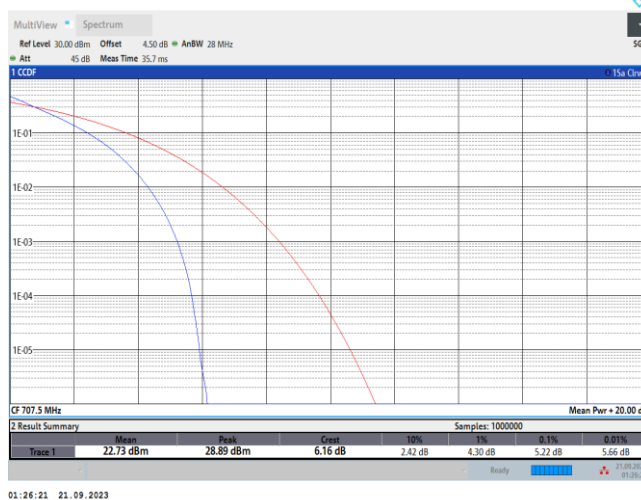
Test Graphs

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



01:25:48 21. 09. 2023

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



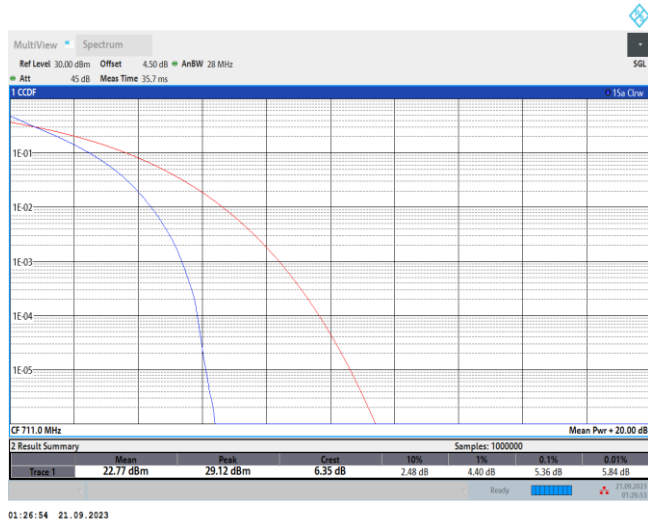
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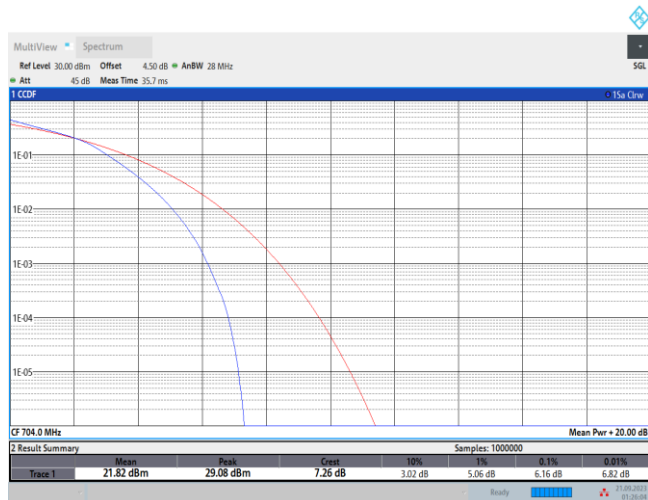
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Band12-10MHz-QPSK-23130-50RB#0



01:26:54 21.09.2023

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



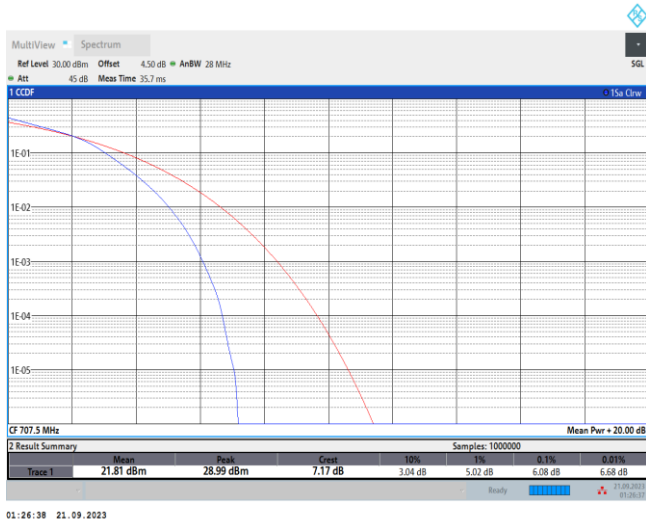
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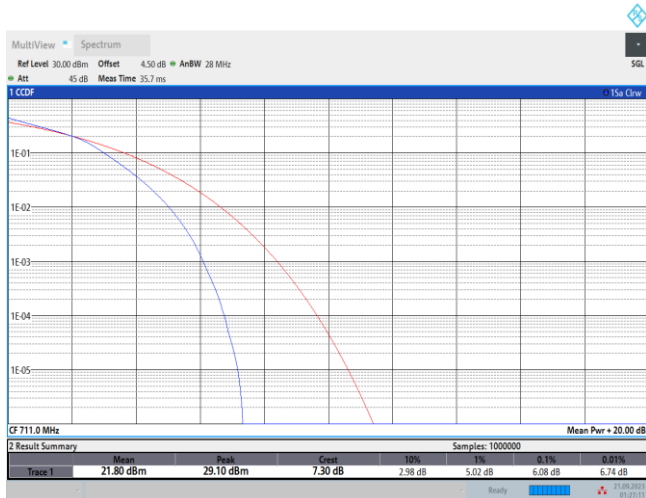
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Band12-10MHz-16QAM-23095-50RB#0



01:26:38 21.09.2023

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



01:27:11 21.09.2023



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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	23095	6RB#0	1.088	1.28	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.30	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.692	2.97	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.687	2.98	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.464	4.89	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.467	4.94	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.916	9.66	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.908	9.64	PASS



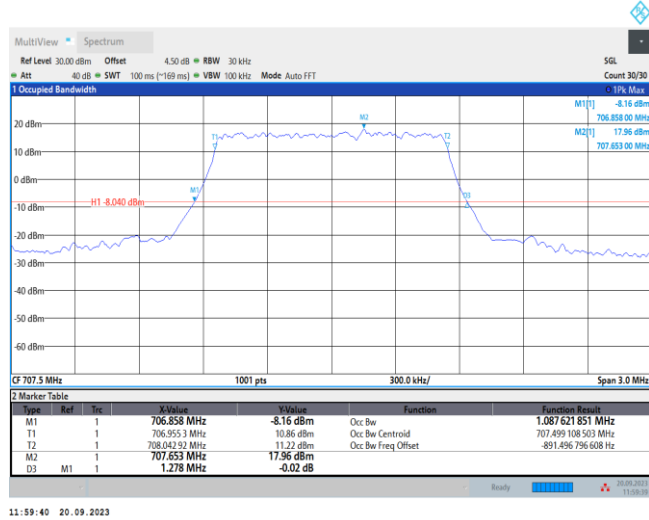
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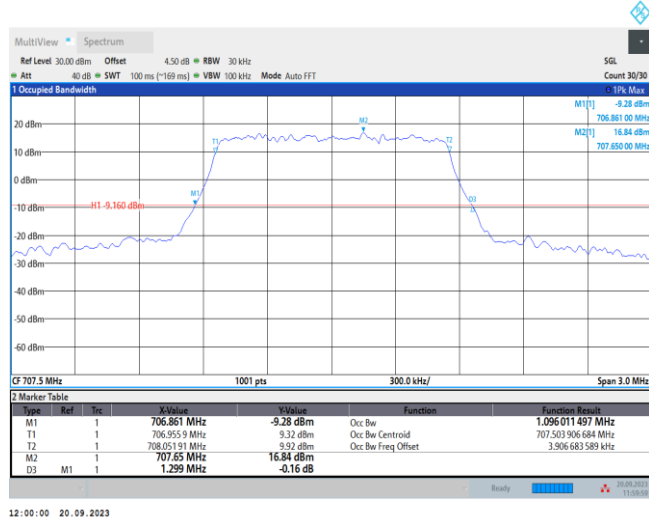
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Test Graphs

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



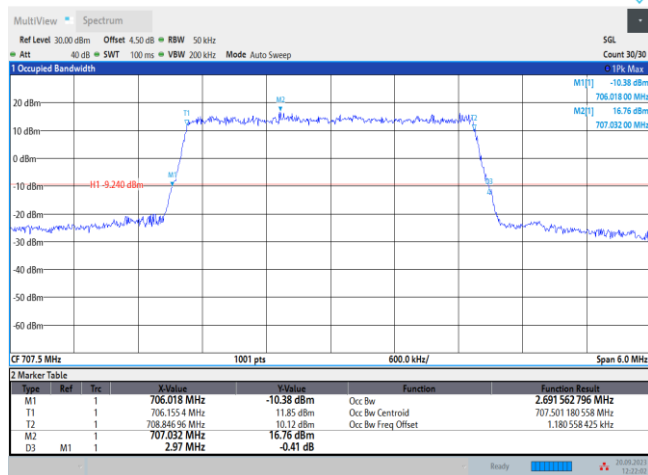
Band12-1.4MHz-16QAM-23095-6RB#0



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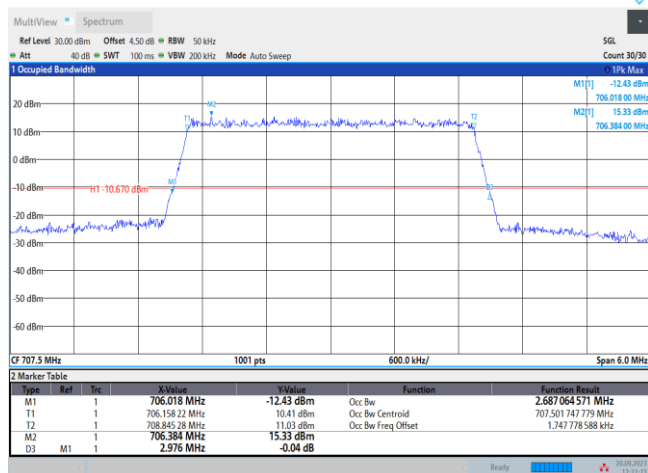
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Band12-3MHz-QPSK-23095-15RB#0



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



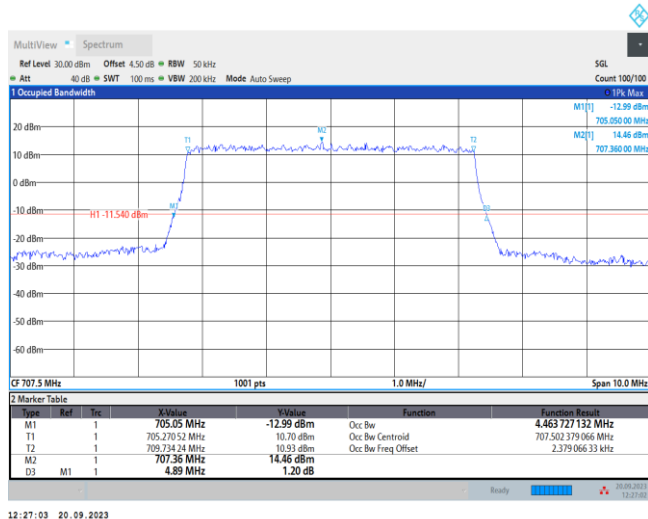
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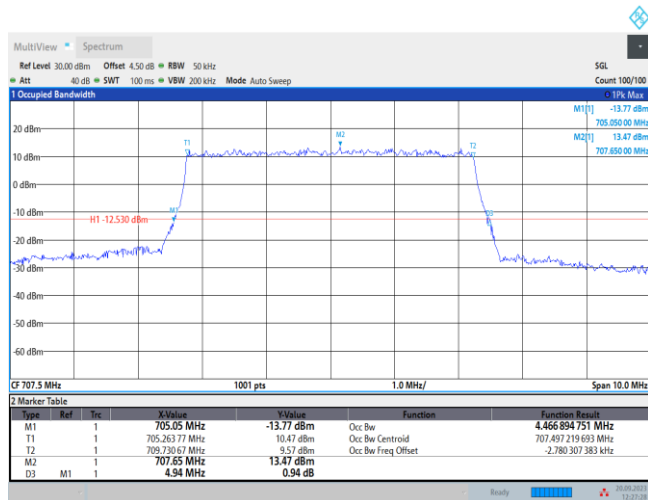
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Band12-5MHz-QPSK-23095-25RB#0



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



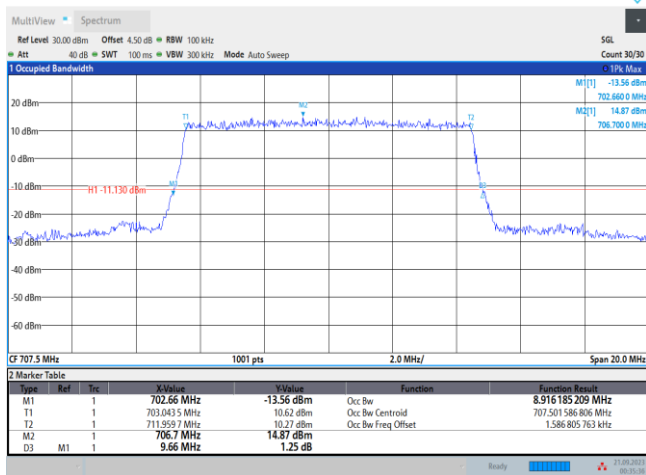
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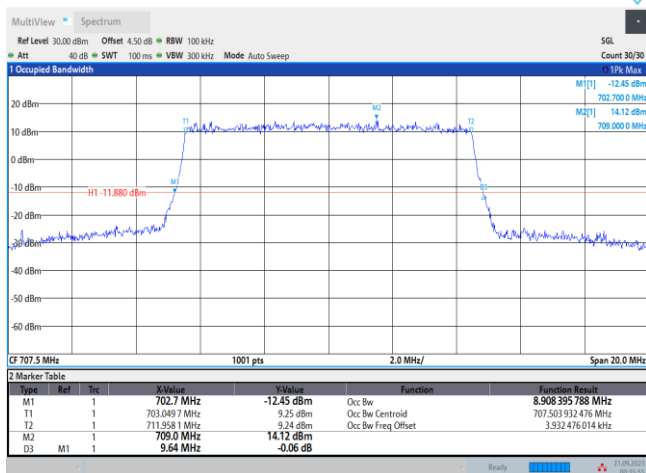
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Band12-10MHz-QPSK-23095-50RB#0



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



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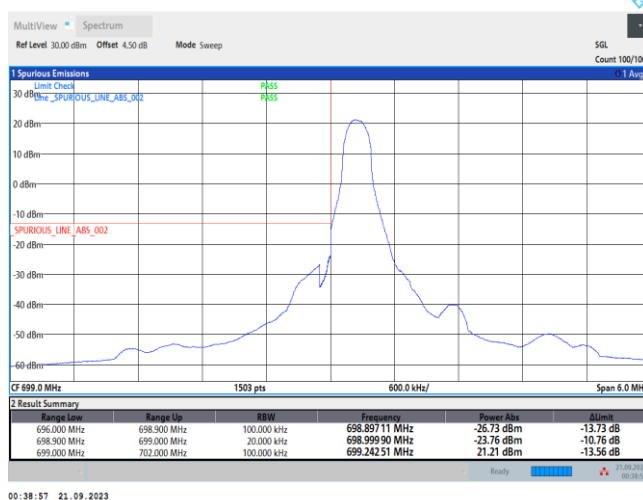


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Band Edge

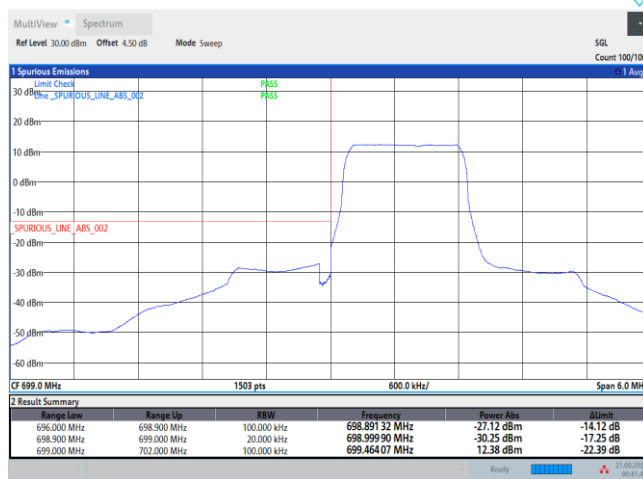
Test Graphs

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



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



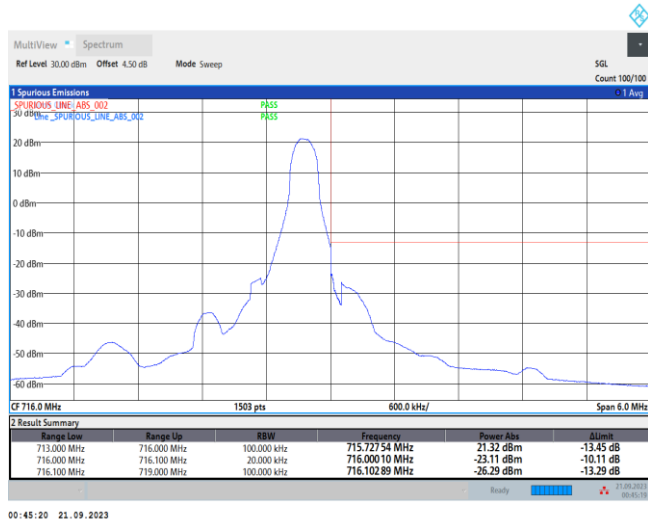
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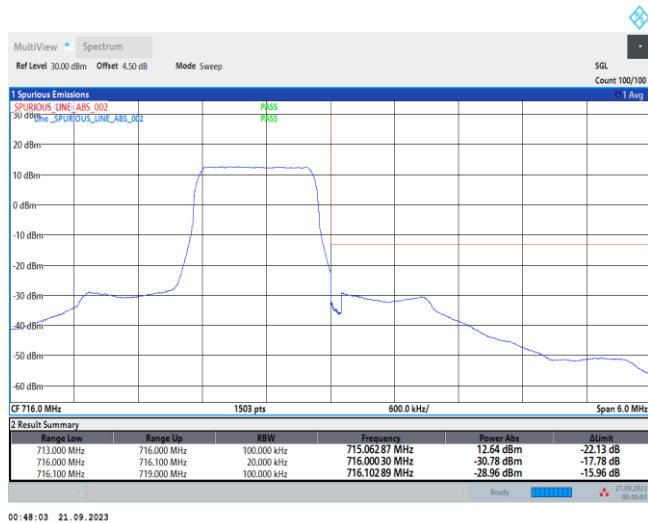
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Band12-1.4MHz-QPSK-23173-1RB#5



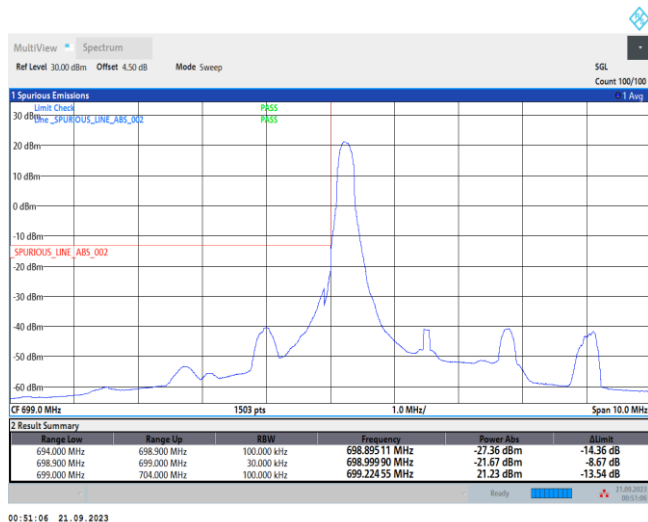
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Band12-3MHz-QPSK-23025-1RB#0



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



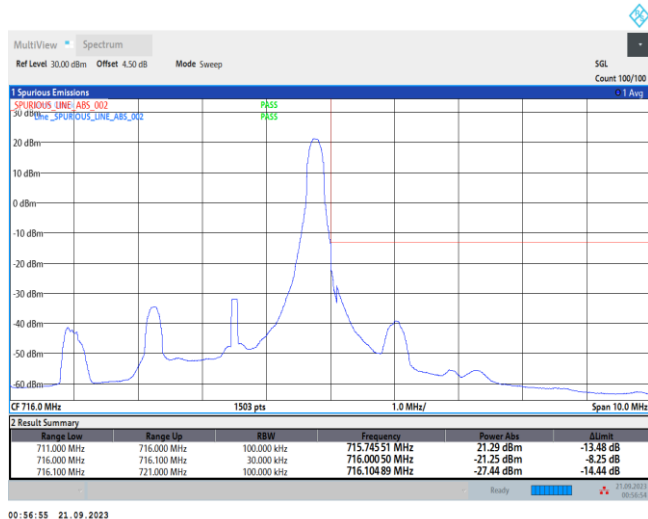
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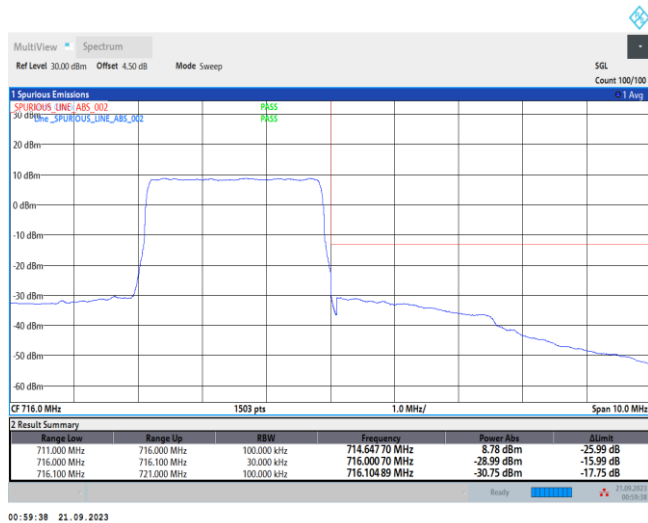
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Band12-3MHz-QPSK-23165-1RB#14



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

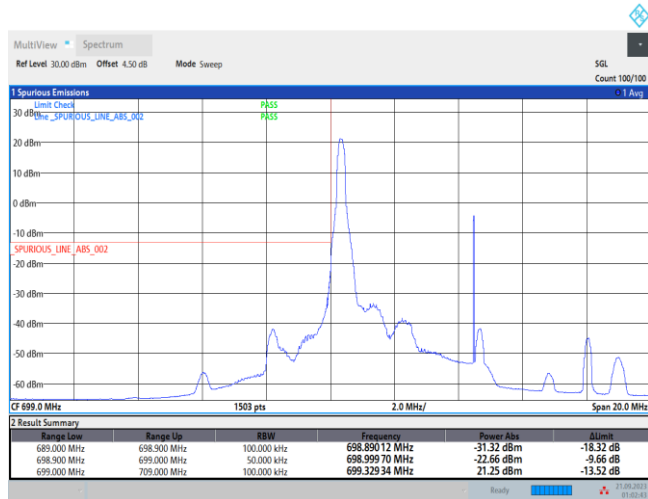


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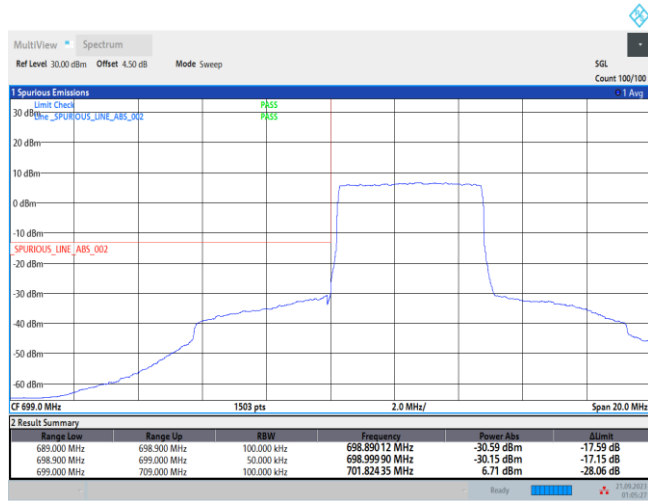
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Band12-5MHz-QPSK-23035-1RB#0



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

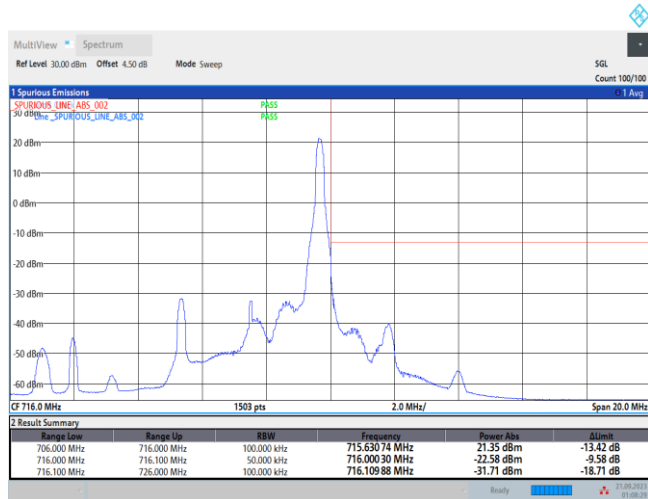


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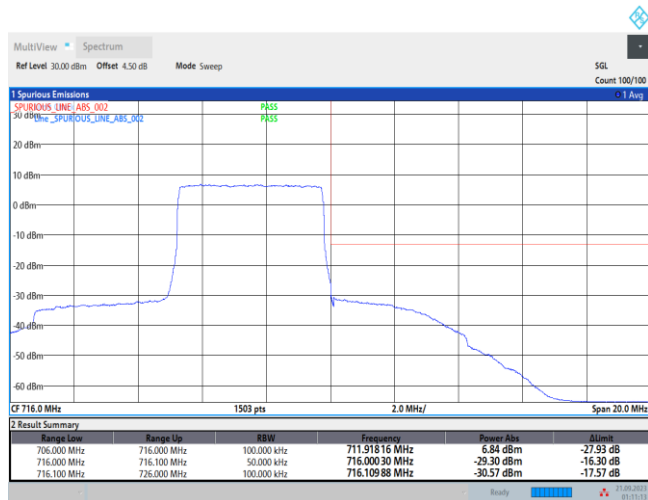
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Band12-5MHz-QPSK-23155-1RB#24



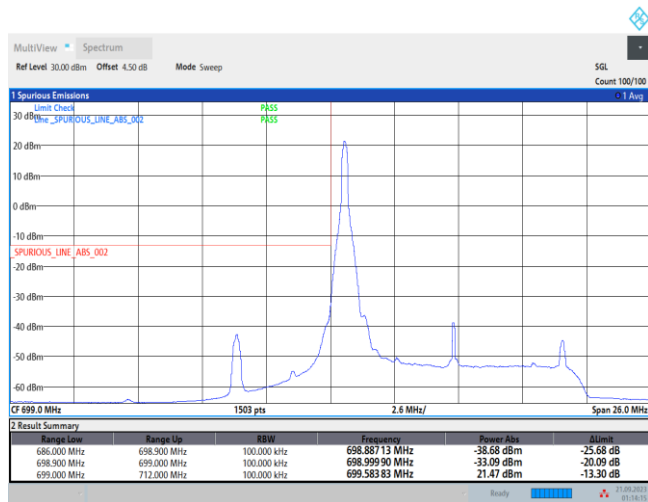
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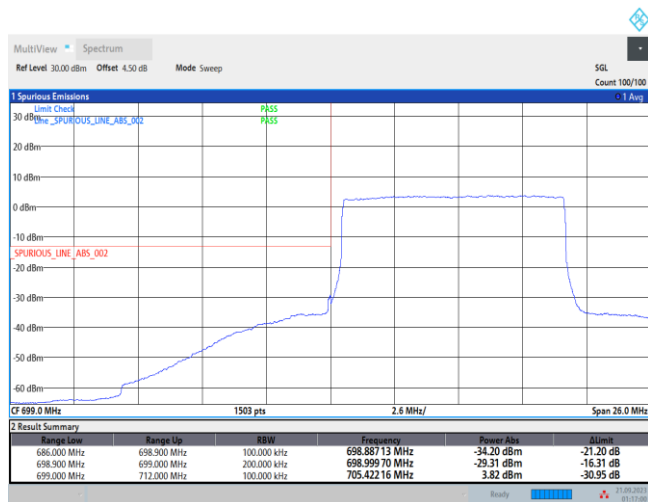
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Band12-10MHz-QPSK-23060-1RB#0



01:14:16 21.09.2023

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



01:17:00 21.09.2023

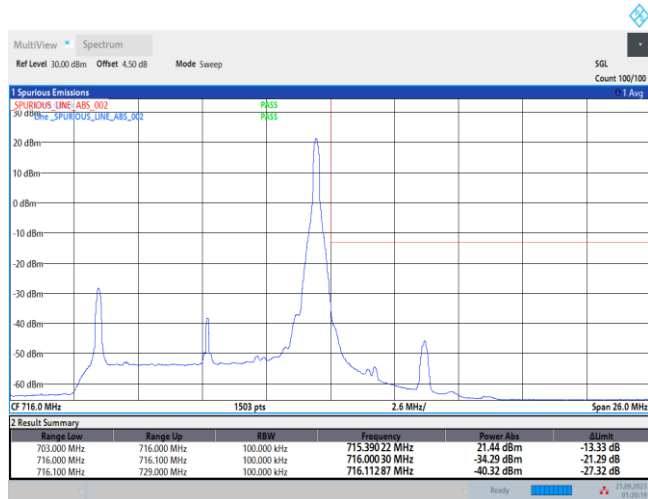


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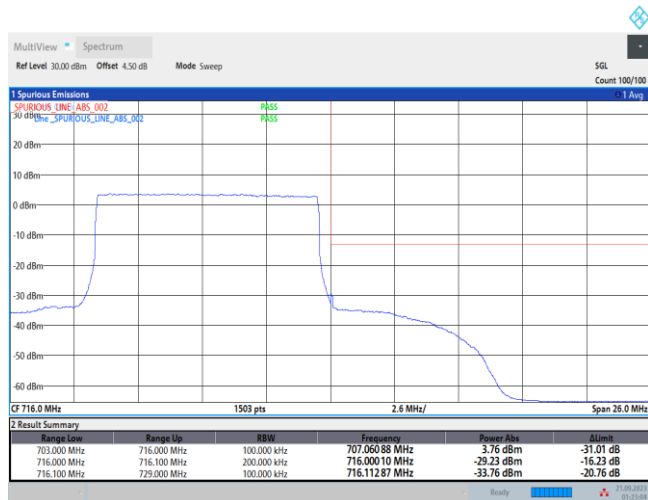
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Band12-10MHz-QPSK-23130-1RB#49



01:20:20 21.09.2023

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



01:23:04 21.09.2023

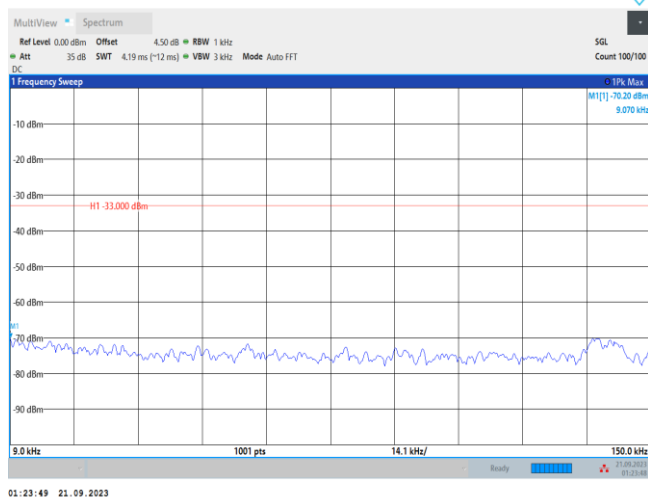


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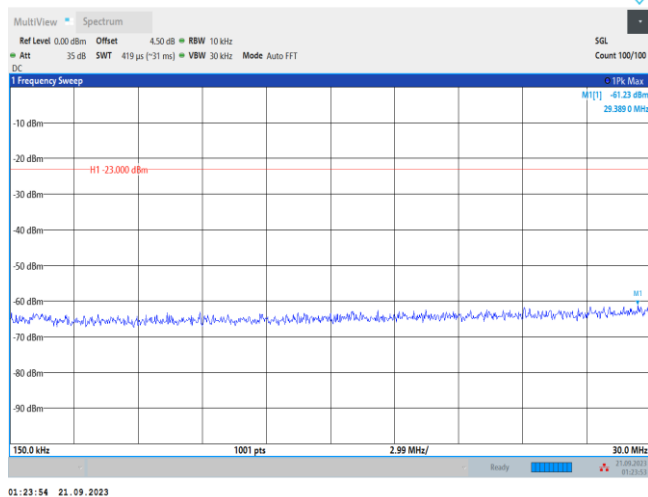
Conducted Spurious Emission

Test Graphs

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



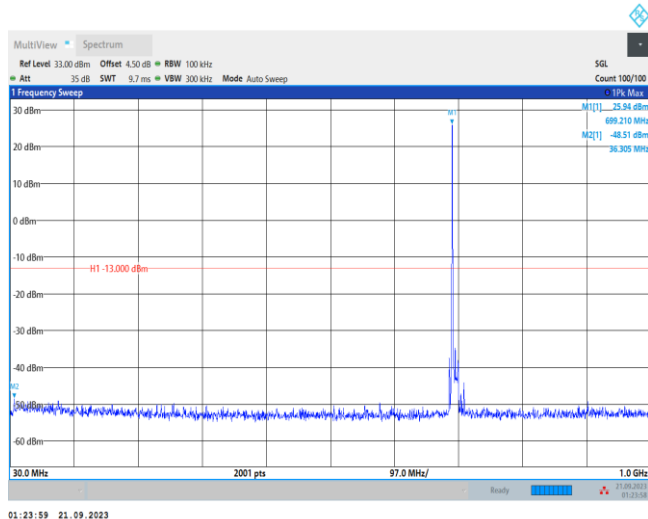
Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



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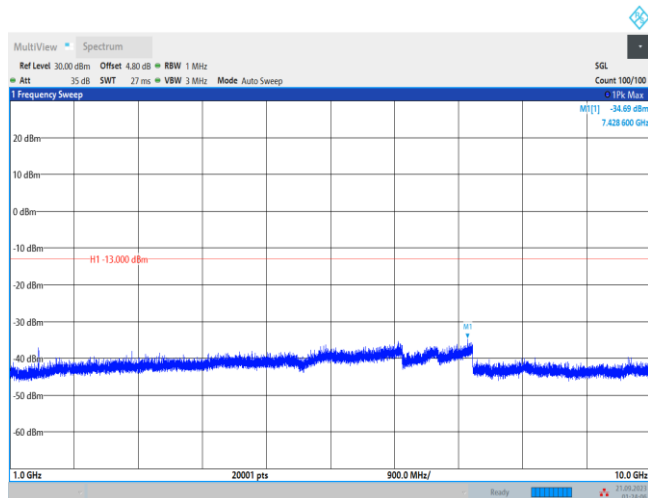
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



01:23:59 21.09.2023

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



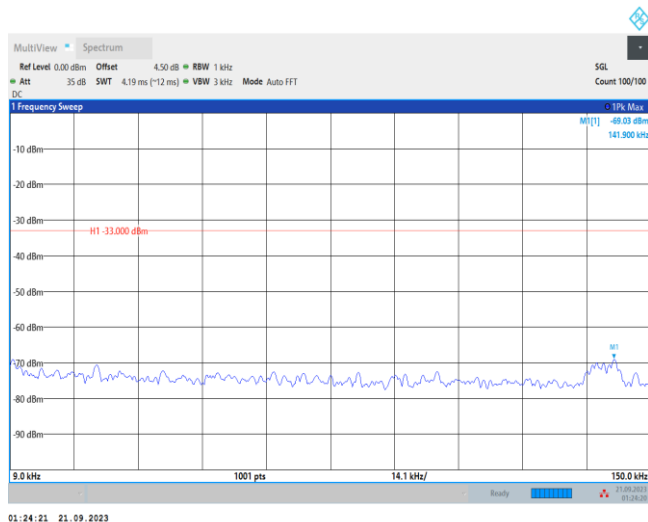
01:24:07 21.09.2023



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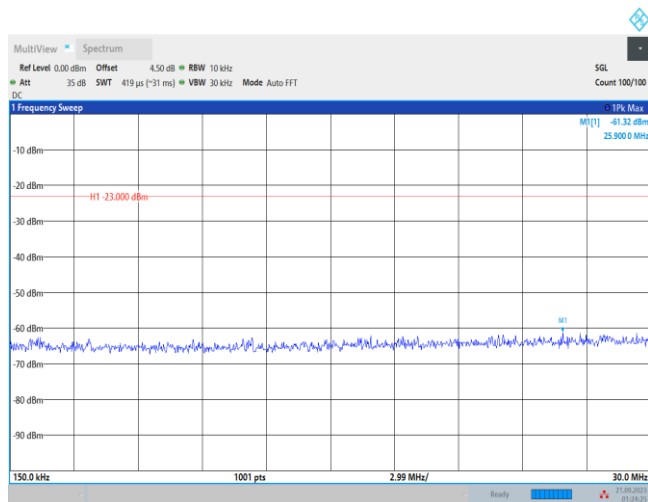
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



01:24:21 21.09.2023

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

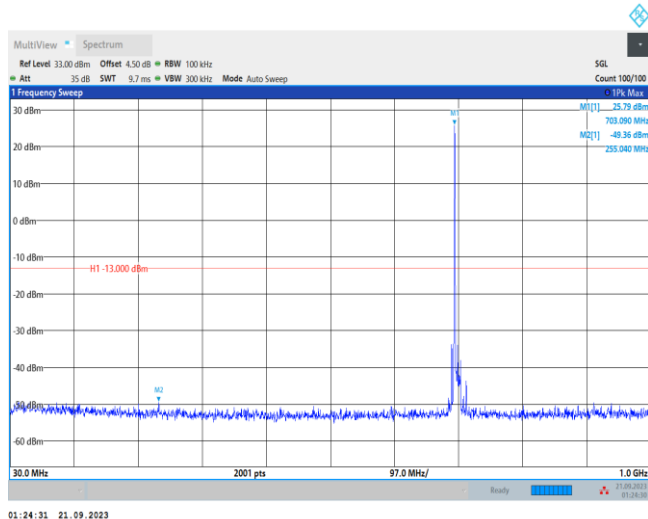


01:24:26 21.09.2023



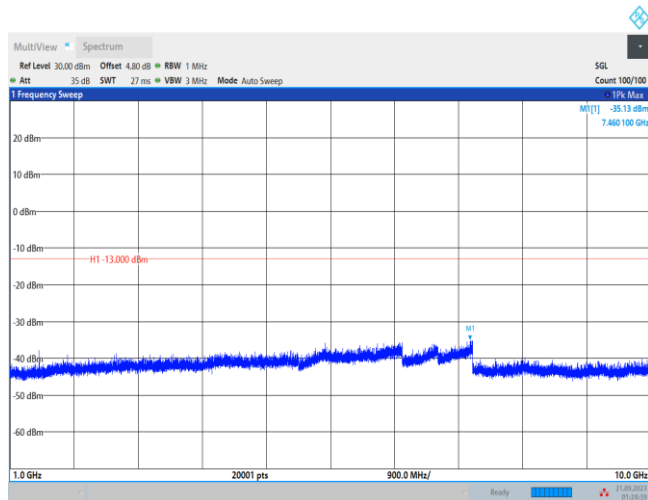
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



01:24:31 21.09.2023

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



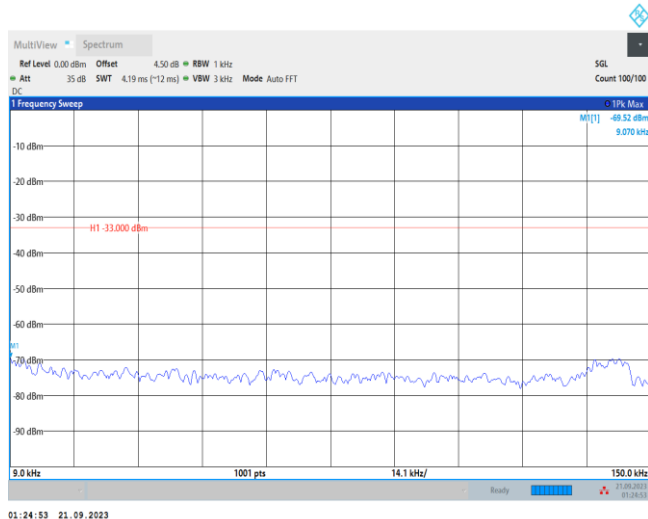
01:24:39 21.09.2023



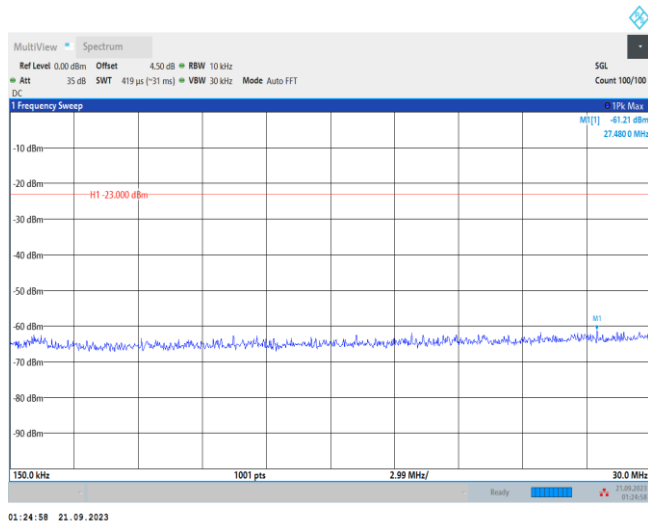
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz

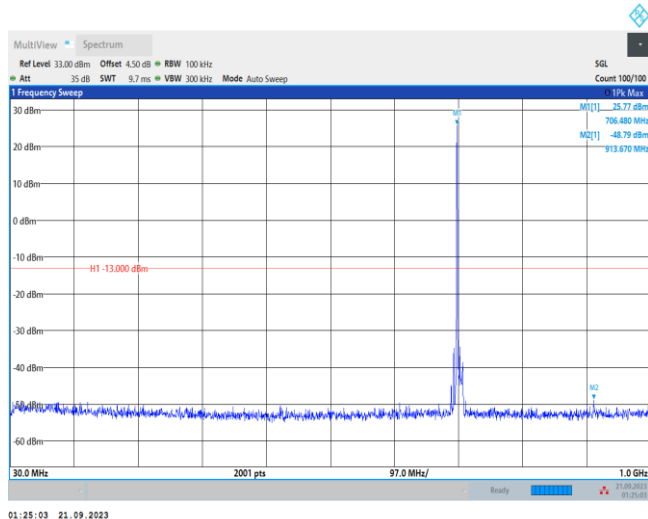


Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz

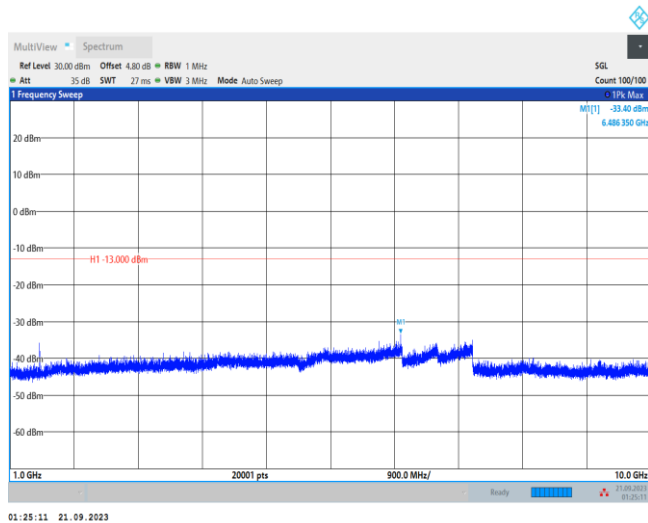


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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



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]	Polarity
1	1399.1800	42.26	-48.00	25.10	-75.90	-13.00	62.90	Horizontal
2	2098.7700	42.33	-47.71	26.18	-74.47	-13.00	61.47	Horizontal
3	2798.3600	41.12	-46.92	27.90	-73.16	-13.00	60.16	Horizontal
4	3497.9500	41.45	-46.54	28.60	-71.75	-13.00	58.75	Horizontal
5	4197.5400	39.74	-45.96	29.57	-71.90	-13.00	58.90	Horizontal
6	4897.1300	41.25	-45.58	31.17	-68.42	-13.00	55.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399.1800	43.70	-48.00	25.10	-74.46	-13.00	61.46	Vertical
2	2098.7700	42.50	-47.71	26.18	-74.30	-13.00	61.30	Vertical
3	2798.3600	42.70	-46.92	27.90	-71.58	-13.00	58.58	Vertical
4	3497.9500	42.67	-46.54	28.60	-70.53	-13.00	57.53	Vertical
5	4197.5400	40.44	-45.96	29.57	-71.20	-13.00	58.20	Vertical
6	4897.1300	41.82	-45.58	31.17	-67.85	-13.00	54.85	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]	Polarity
1	1406.1800	43.35	-48.02	25.10	-74.83	-13.00	61.83	Horizontal
2	2109.2700	42.37	-47.71	26.21	-74.39	-13.00	61.39	Horizontal
3	2812.3600	41.83	-46.88	27.93	-72.38	-13.00	59.38	Horizontal
4	3515.4500	41.22	-46.51	28.62	-71.93	-13.00	58.93	Horizontal
5	4218.5400	39.46	-45.93	29.63	-72.10	-13.00	59.10	Horizontal
6	4921.6300	40.67	-45.63	31.23	-68.99	-13.00	55.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1406.1800	44.26	-48.02	25.10	-73.92	-13.00	60.92	Vertical
2	2109.2700	42.97	-47.71	26.21	-73.79	-13.00	60.79	Vertical
3	2812.3600	42.47	-46.88	27.93	-71.74	-13.00	58.74	Vertical
4	3515.4500	41.87	-46.51	28.62	-71.28	-13.00	58.28	Vertical
5	4218.5400	41.06	-45.93	29.63	-70.50	-13.00	57.50	Vertical
6	4921.6300	40.93	-45.63	31.23	-68.73	-13.00	55.73	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]	Polarity
1	1413.1800	42.39	-48.04	25.11	-75.81	-13.00	62.81	Horizontal
2	2119.7700	42.07	-47.70	26.24	-74.66	-13.00	61.66	Horizontal
3	2826.3600	41.53	-46.83	27.95	-72.60	-13.00	59.60	Horizontal
4	3532.9500	41.33	-46.47	28.63	-71.77	-13.00	58.77	Horizontal
5	4239.5400	39.93	-45.89	29.68	-71.54	-13.00	58.54	Horizontal
6	4946.1300	41.19	-45.69	31.28	-68.47	-13.00	55.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	44.02	-48.04	25.11	-74.18	-13.00	61.18	Vertical
2	2119.7700	43.34	-47.70	26.24	-73.39	-13.00	60.39	Vertical
3	2826.3600	42.36	-46.83	27.95	-71.77	-13.00	58.77	Vertical
4	3532.9500	42.08	-46.47	28.63	-71.02	-13.00	58.02	Vertical
5	4239.5400	40.85	-45.89	29.68	-70.62	-13.00	57.62	Vertical
6	4946.1300	40.83	-45.69	31.28	-68.83	-13.00	55.83	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	2.20	0.003110	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	3.20	0.004523	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	1.60	0.002261	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	2.60	0.003675	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	0.60	0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.30	0.000424	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-0.60	-0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-1.60	-0.002261	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	-2.30	-0.003251	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-2.00	-0.002827	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.70	-0.000989	PASS

---End of Attachment---



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