

Report No.: SEWA2307000102RG01

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Appendix B.17

LTE Band 71



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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
Band71	5MHz	QPSK	133147	1RB#0	24.22	23.73	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	24.20	23.71	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	24.26	23.77	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	23.26	22.77	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	24.13	23.64	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.76	23.27	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.95	23.46	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	23.12	22.63	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.94	23.45	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.90	23.41	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.91	23.42	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.86	22.37	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	23.64	23.15	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	23.43	22.94	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	23.62	23.13	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	22.16	21.67	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	23.25	22.76	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	23.39	22.90	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	23.35	22.86	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	22.12	21.63	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	23.43	22.94	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	23.26	22.77	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	23.23	22.74	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	22.00	21.51	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	24.49	24.00	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	24.05	23.56	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	24.39	23.90	34.77	PASS



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Band71	10MHz	QPSK	133172	50RB#0	23.11	22.62	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	24.25	23.76	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.98	23.49	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	24.06	23.57	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	23.16	22.67	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	24.04	23.55	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.91	23.42	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	24.23	23.74	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.94	22.45	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	23.88	23.39	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	23.29	22.80	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	23.53	23.04	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	22.20	21.71	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	23.97	23.48	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	23.40	22.91	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	23.33	22.84	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	22.06	21.57	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	23.32	22.83	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	23.32	22.83	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	23.40	22.91	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.95	21.46	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	24.05	23.56	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.99	23.50	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	24.06	23.57	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	23.07	22.58	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	24.11	23.62	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	24.07	23.58	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	24.12	23.63	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	23.04	22.55	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	24.08	23.59	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.89	23.40	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	24.19	23.70	34.77	PASS



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Band71	15MHz	16QAM	133197	1RB#0	23.39	22.90	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	23.51	23.02	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	23.63	23.14	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	22.01	21.52	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	23.37	22.88	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	23.47	22.98	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	23.41	22.92	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.96	21.47	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	23.24	22.75	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	23.34	22.85	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	23.52	23.03	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	22.14	21.65	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.97	23.48	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	24.12	23.63	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.58	23.09	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	23.09	22.60	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.82	23.33	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.76	23.27	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.90	23.41	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.94	22.45	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.74	23.25	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.83	23.34	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.84	23.35	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	23.04	22.55	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	23.30	22.81	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	23.19	22.70	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	23.30	22.81	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	22.08	21.59	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	23.16	22.67	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.93	22.44	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	23.34	22.85	34.77	PASS



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Band71	20MHz	16QAM	133322	100RB#0	22.02	21.53	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	23.29	22.80	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	23.09	22.60	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	23.32	22.83	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	22.02	21.53	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.74	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.72	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.76	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.58	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.64	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.58	13	PASS

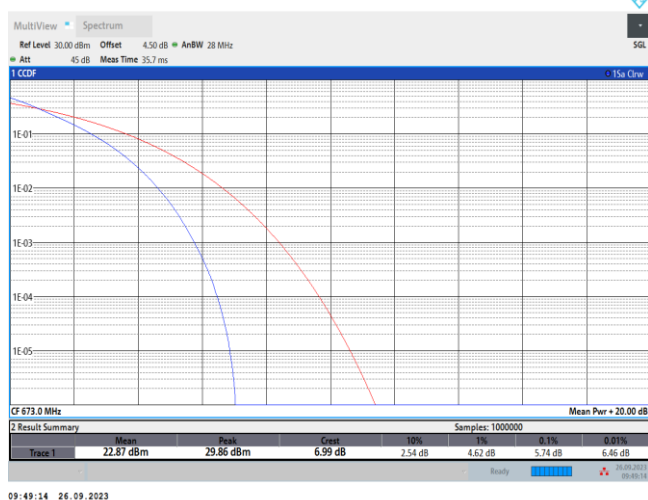


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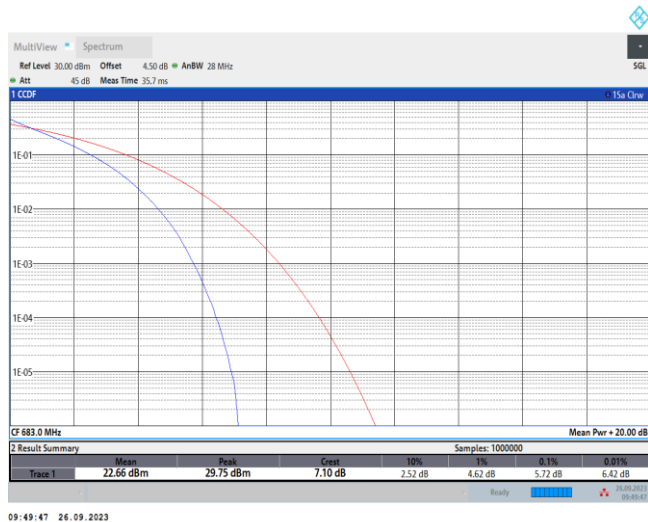
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Test Graphs

Band71-20MHz-QPSK-133222-100RB#0



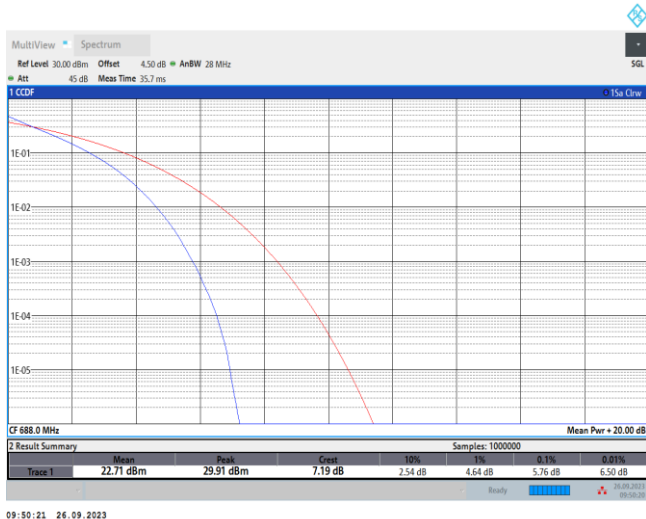
Band71-20MHz-QPSK-133322-100RB#0



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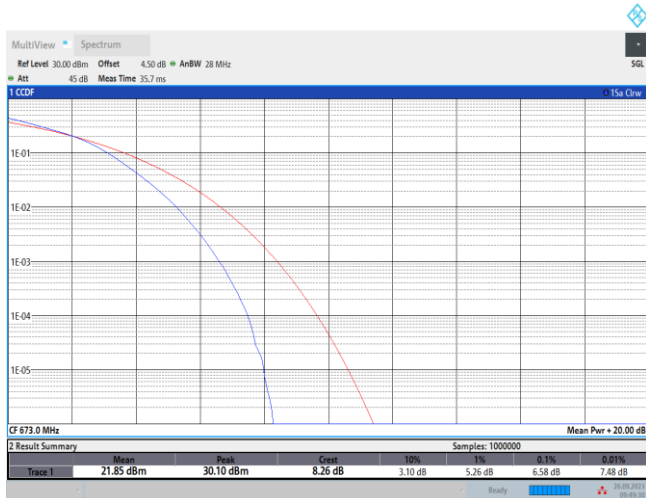
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Band71-20MHz-QPSK-133372-100RB#0



09:50:21 26.09.2023

Band71-20MHz-16QAM-133222-100RB#0



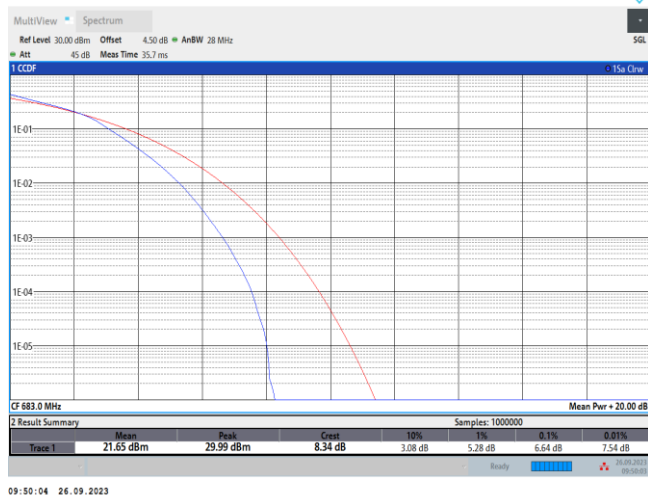
09:49:31 26.09.2023



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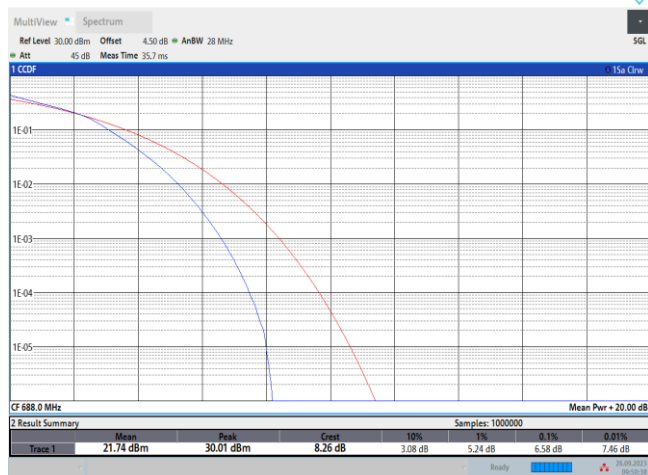
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Band71-20MHz-16QAM-133322-100RB#0



09:50:04 26.09.2023

Band71-20MHz-16QAM-133372-100RB#0



09:50:38 26.09.2023



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133297	25RB#0	4.468	4.90	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.466	4.97	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.942	9.70	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.921	9.68	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.473	14.88	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.447	14.82	PASS
Band71	20MHz	QPSK	133297	100RB#0	17.91	19.36	PASS
Band71	20MHz	16QAM	133297	100RB#0	17.898	19.48	PASS

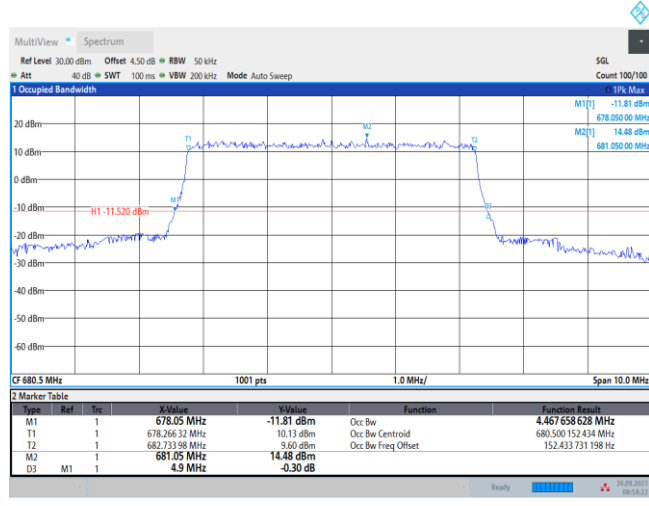


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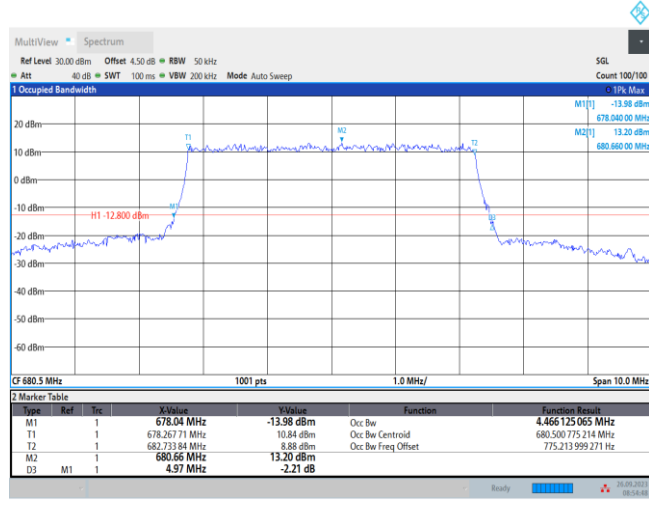
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Test Graphs

Band71-5MHz-QPSK-133297-25RB#0



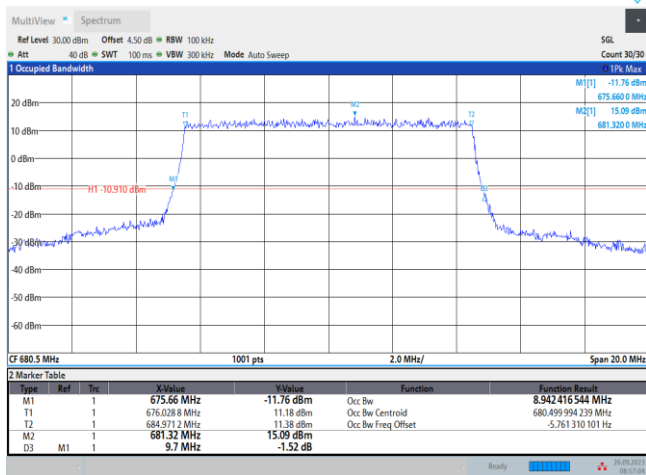
Band71-5MHz-16QAM-133297-25RB#0



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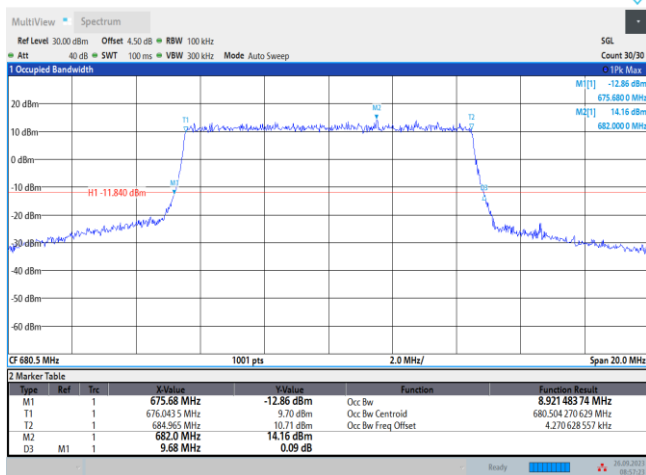
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Band71-10MHz-QPSK-133297-50RB#0



08:57:05 26.09.2023

Band71-10MHz-16QAM-133297-50RB#0



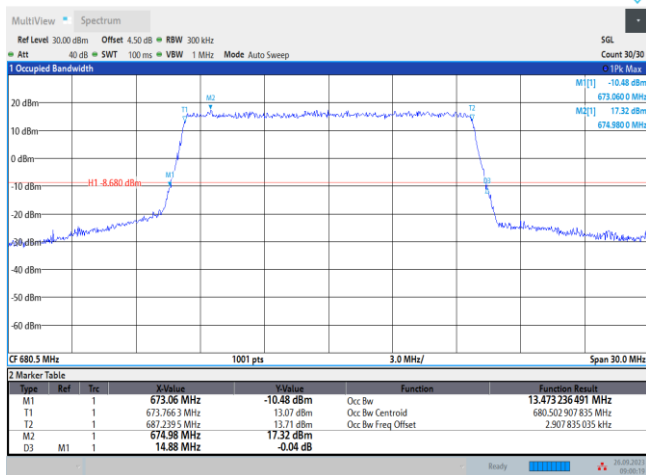
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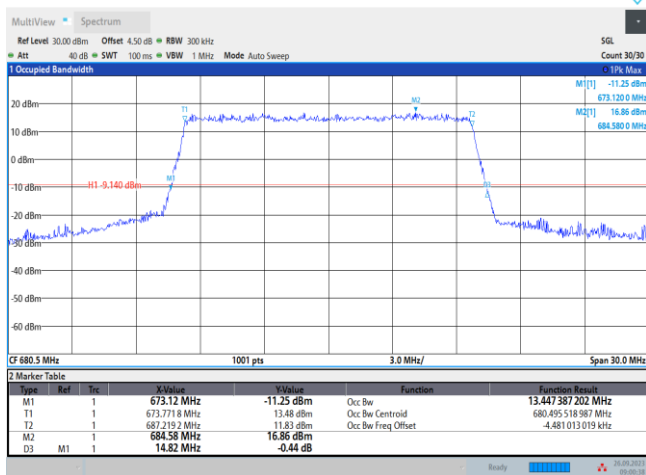
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Band71-15MHz-QPSK-133297-75RB#0



09:00:20 26.09.2023

Band71-15MHz-16QAM-133297-75RB#0



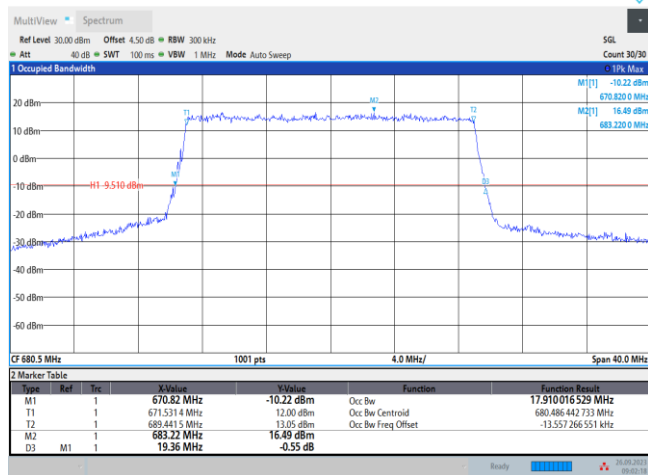
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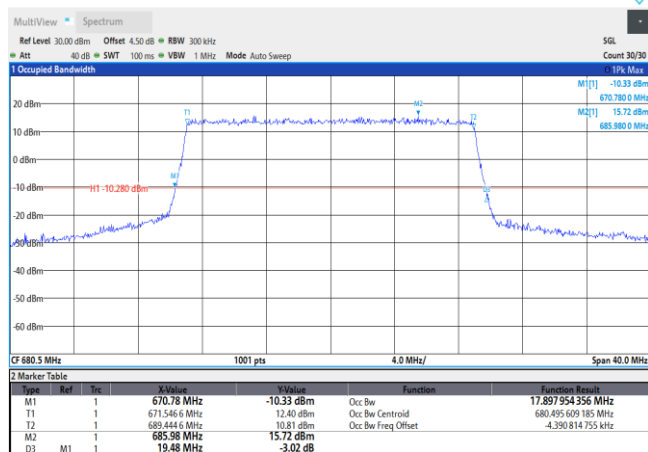
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Band71-20MHz-QPSK-133297-100RB#0



09:02:18 26.09.2023

Band71-20MHz-16QAM-133297-100RB#0



09:02:37 26.09.2023



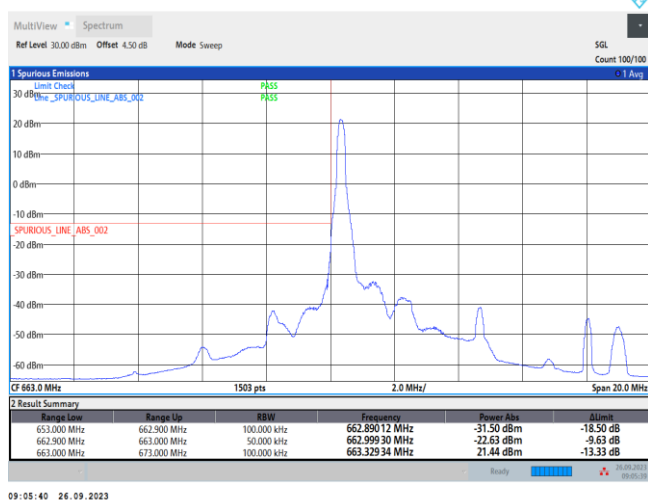
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Band Edge

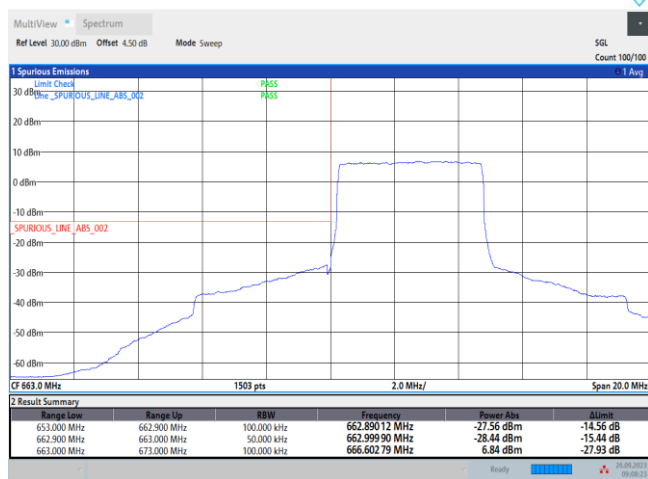
Test Graphs

Band71-5MHz-QPSK-133147-1RB#0



09:05:40 26.09.2023

Band71-5MHz-QPSK-133147-25RB#0



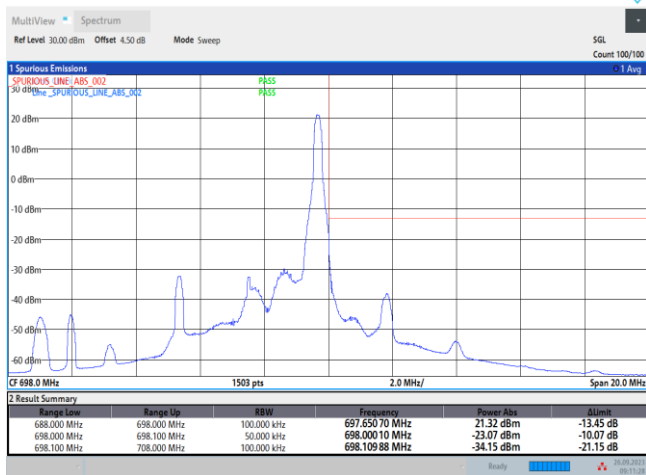
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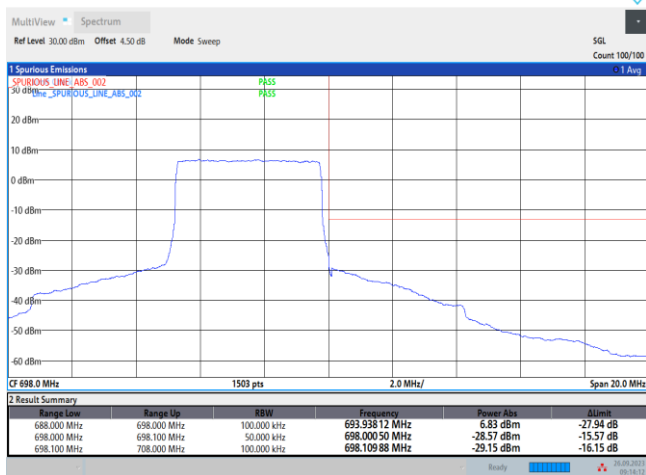
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Band71-5MHz-QPSK-133447-1RB#24



Band71-5MHz-QPSK-133447-25RB#0

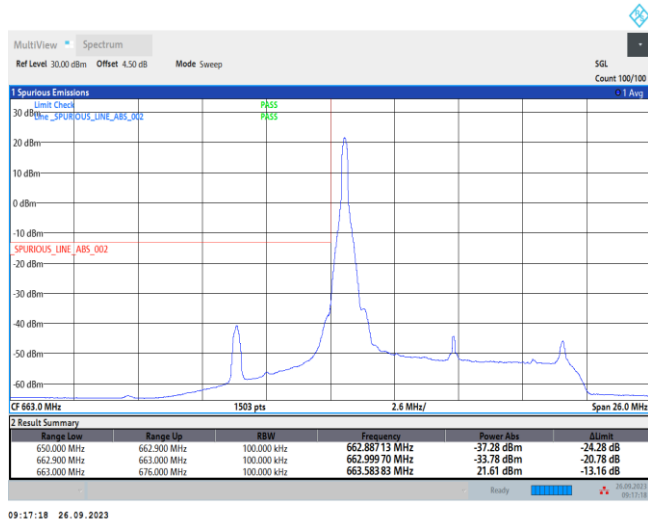


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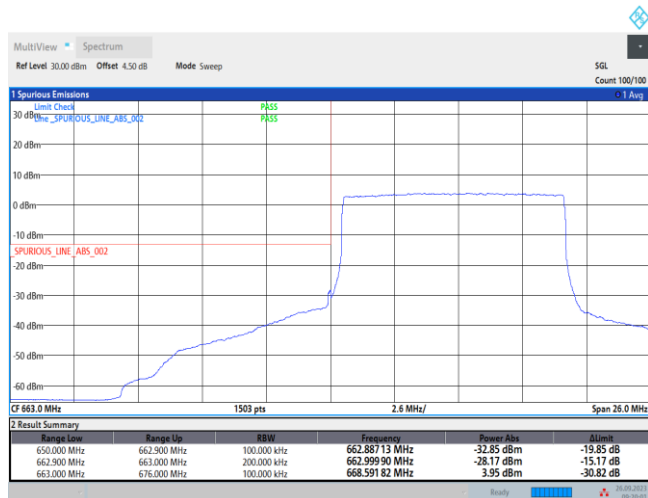
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Band71-10MHz-QPSK-133172-1RB#0



09:17:18 26.09.2023

Band71-10MHz-QPSK-133172-50RB#0



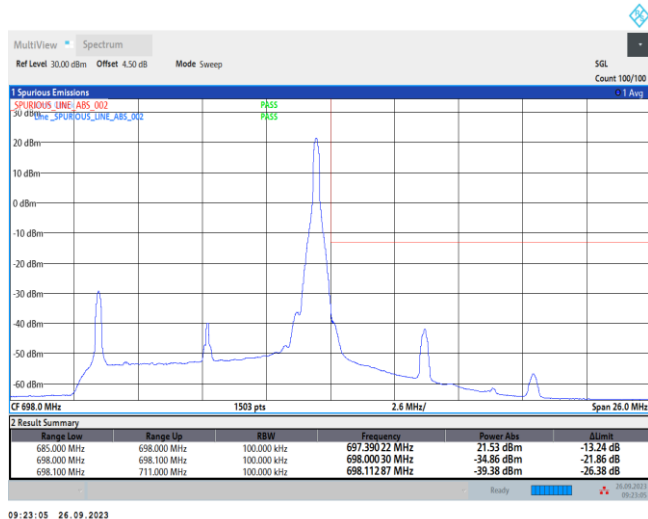
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Band71-10MHz-QPSK-133422-1RB#49



09:23:05 26.09.2023

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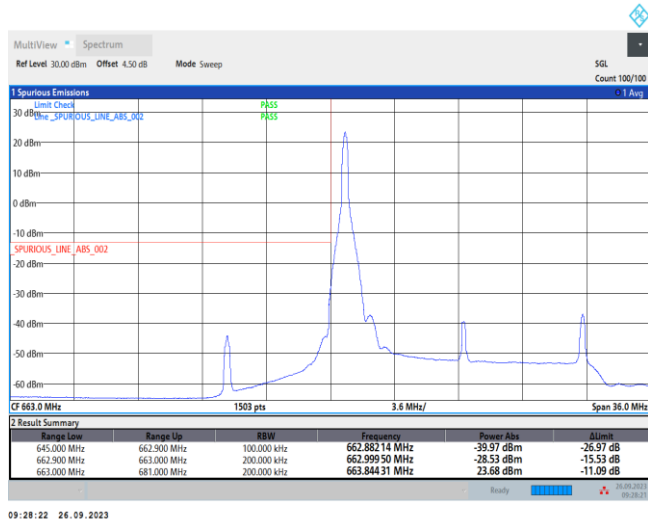
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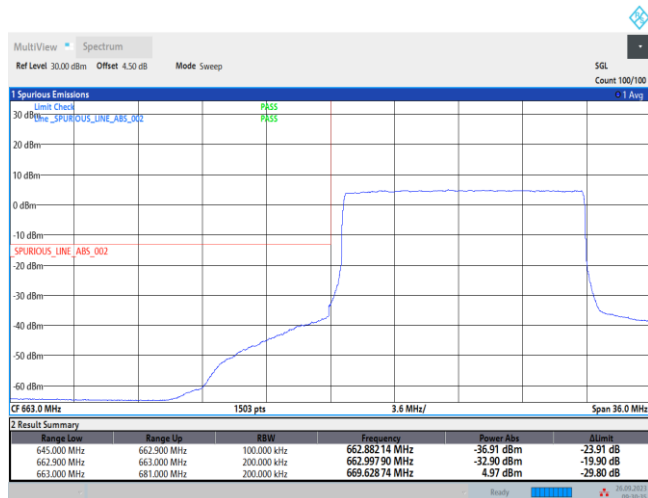
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Band71-15MHz-QPSK-133197-1RB#0



09:28:22 26.09.2023

Band71-15MHz-QPSK-133197-75RB#0



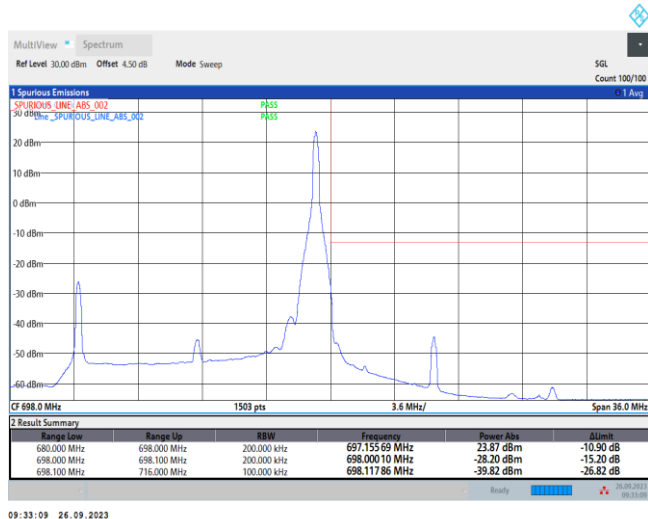
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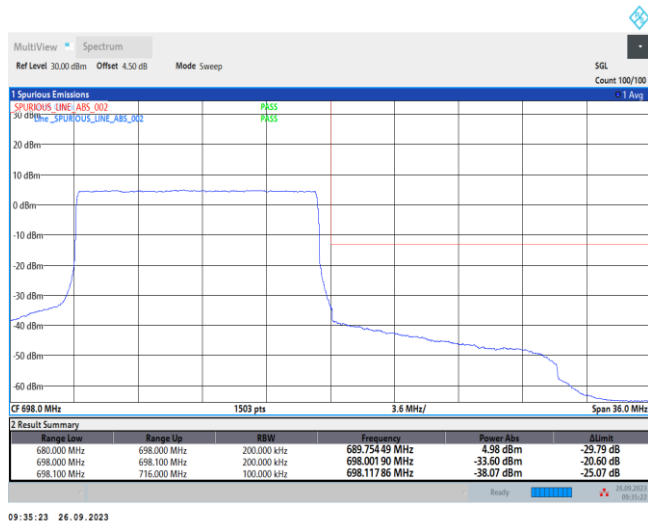
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Band71-15MHz-QPSK-133397-1RB#74



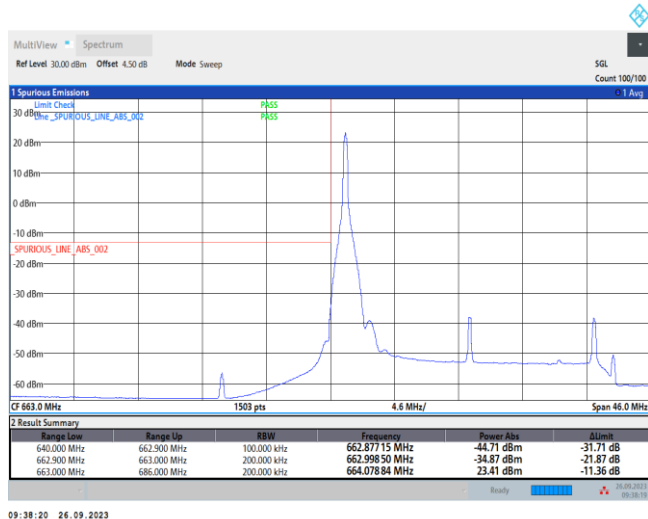
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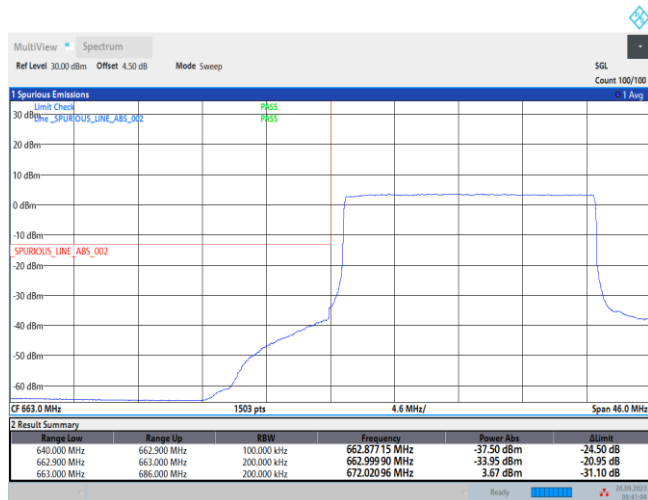
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Band71-20MHz-QPSK-133222-1RB#0



09:38:20 26.09.2023

Band71-20MHz-QPSK-133222-100RB#0



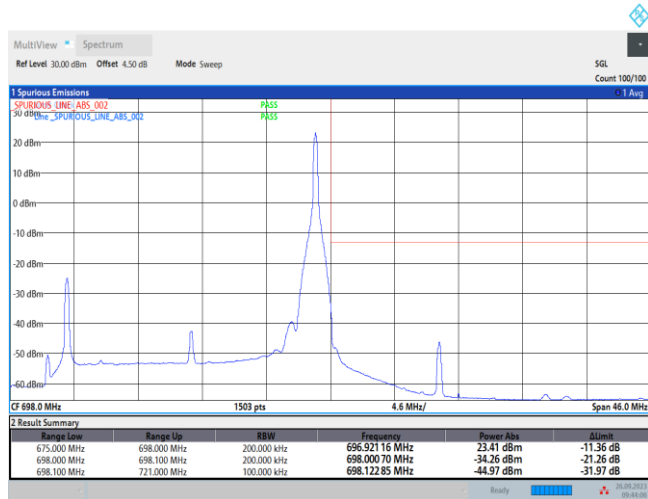
09:41:04 26.09.2023



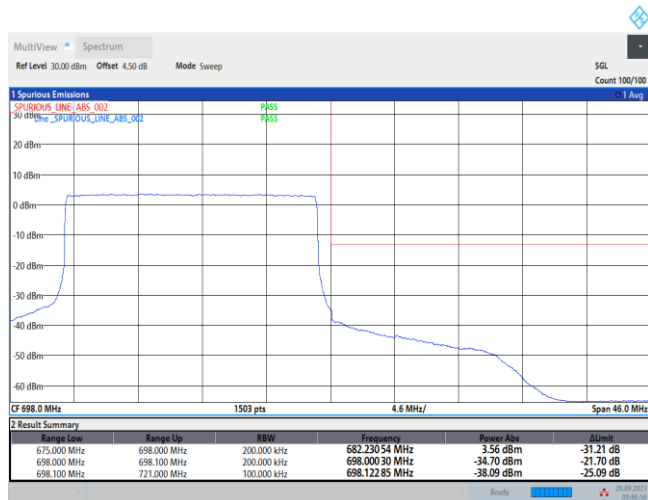
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Band71-20MHz-QPSK-133372-1RB#99



Band71-20MHz-QPSK-133372-100RB#0



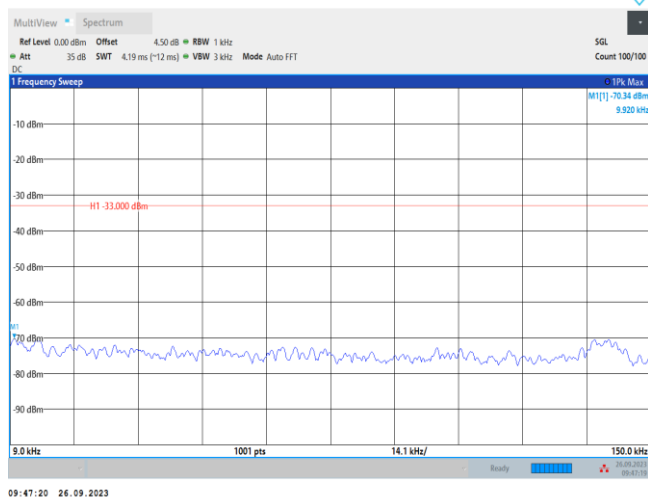
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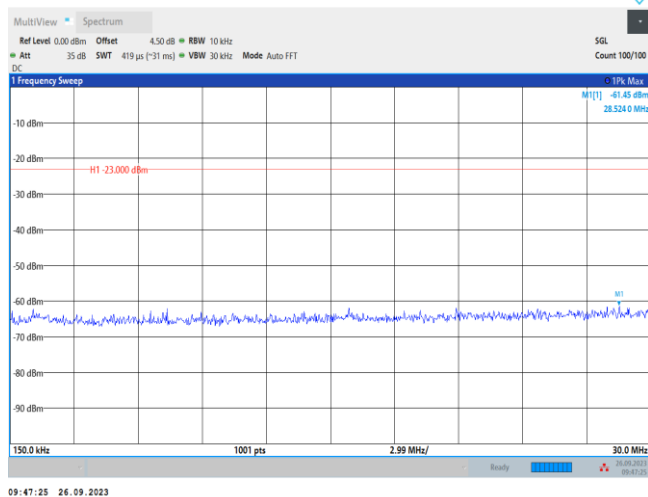
Conducted Spurious Emission

Test Graphs

Band71-20MHz-QPSK-133222-1RB#0-Range1:0.009~0.15MHz



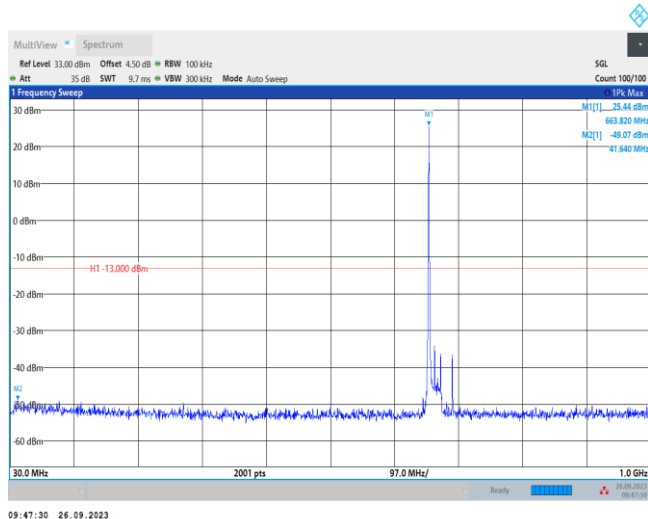
Band71-20MHz-QPSK-133222-1RB#0-Range2:0.15~30MHz



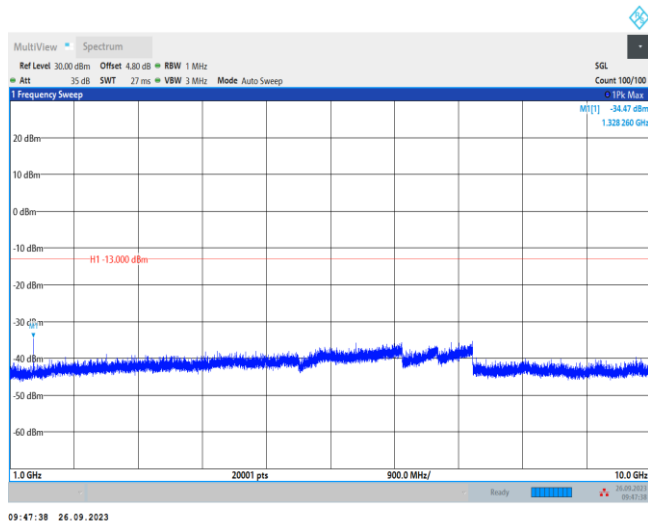
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Band71-20MHz-QPSK-133222-1RB#0-Range3:30~1000MHz

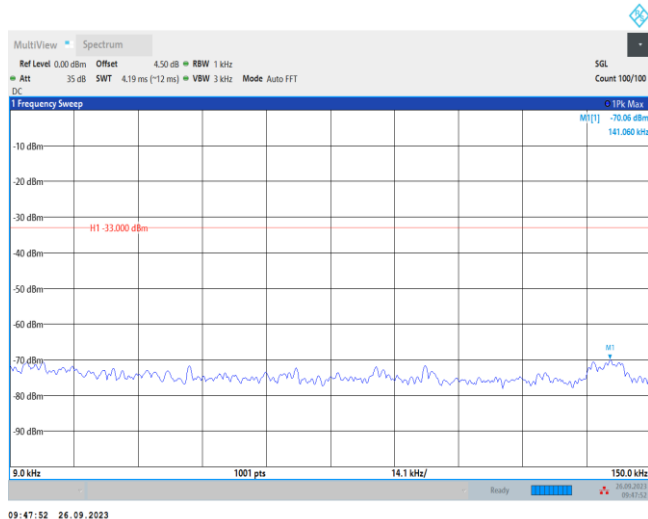


Band71-20MHz-QPSK-133222-1RB#0-Range4:1000~10000MHz



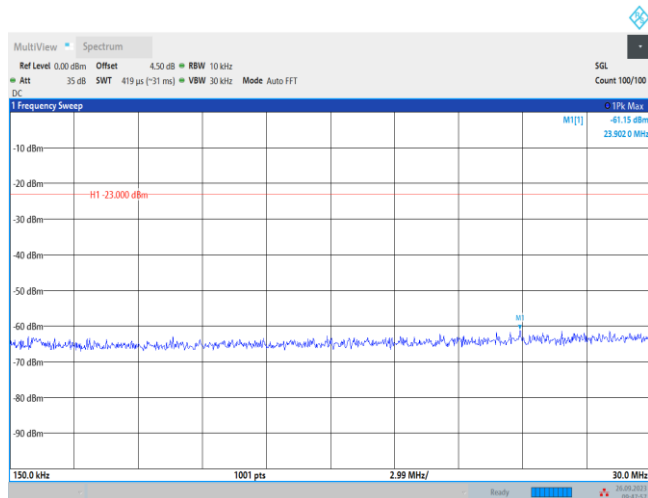
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Band71-20MHz-QPSK-133322-1RB#0-Range1:0.009~0.15MHz



09:47:52 26.09.2023

Band71-20MHz-QPSK-133322-1RB#0-Range2:0.15~30MHz

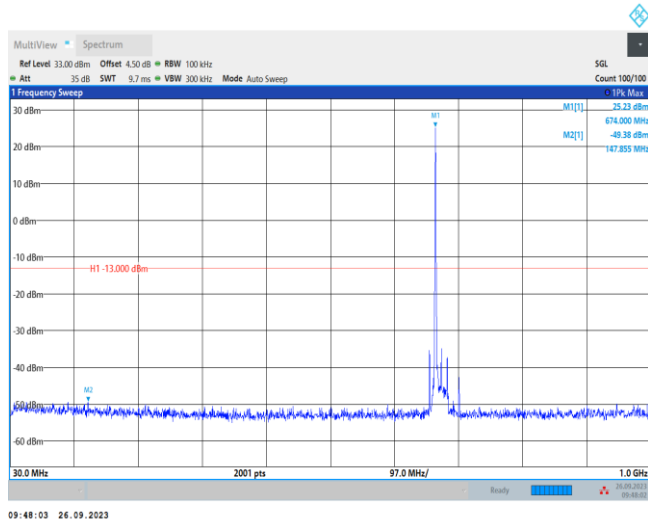


09:47:58 26.09.2023

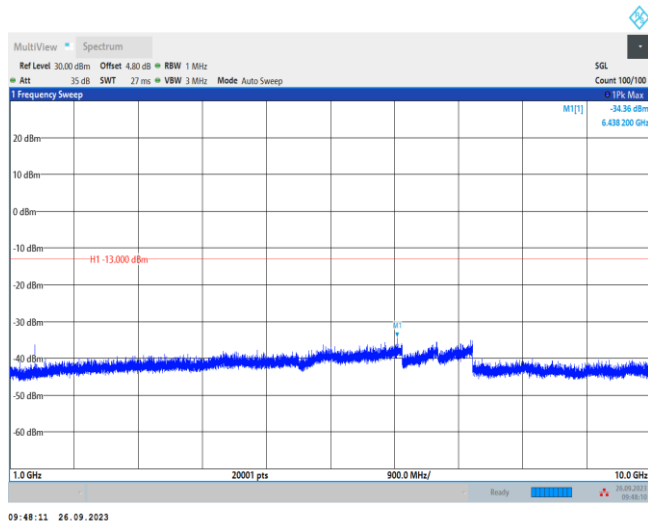


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Band71-20MHz-QPSK-133322-1RB#0-Range3:30~1000MHz



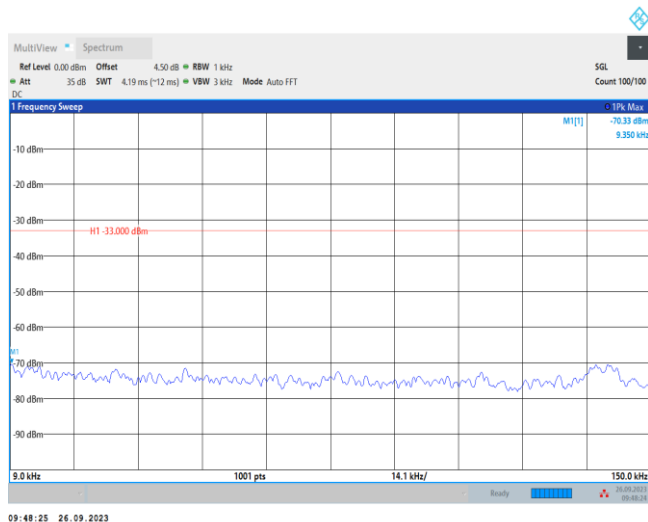
Band71-20MHz-QPSK-133322-1RB#0-Range4:1000~10000MHz



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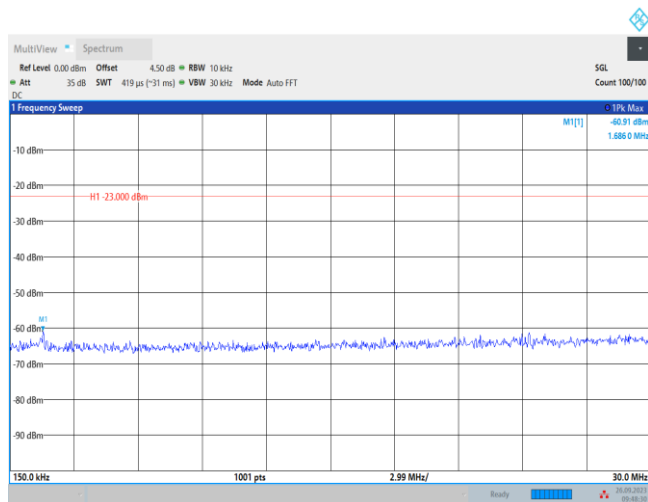
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Band71-20MHz-QPSK-133372-1RB#0-Range1:0.009~0.15MHz



09:48:25 26.09.2023

Band71-20MHz-QPSK-133372-1RB#0-Range2:0.15~30MHz



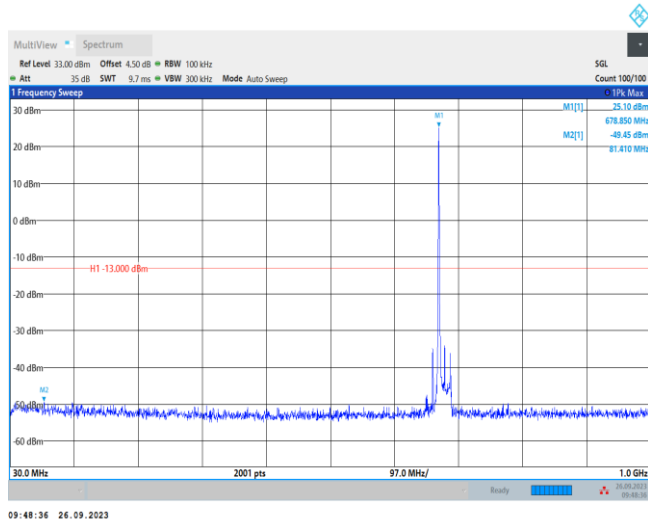
09:48:31 26.09.2023



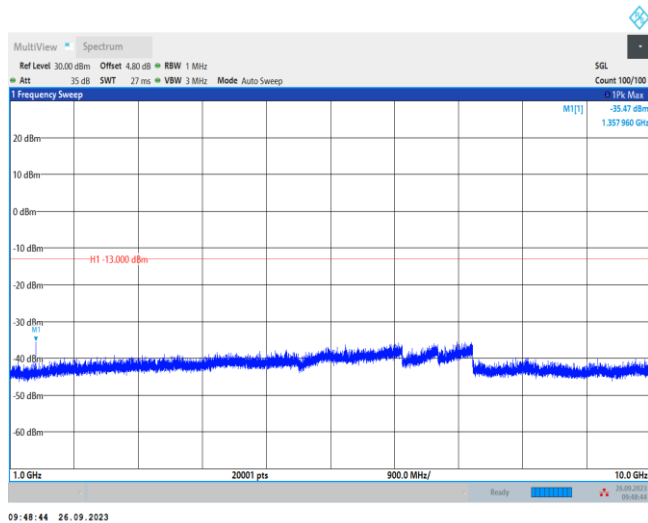
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Band71-20MHz-QPSK-133372-1RB#0-Range3:30~1000MHz



Band71-20MHz-QPSK-133372-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band71_ 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	1328.1800	42.76	-48.09	25.14	-75.46	-13.00	62.46	Horizontal
2	1992.2700	41.38	-47.91	25.89	-75.91	-13.00	62.91	Horizontal
3	2656.3600	41.63	-47.00	27.61	-73.01	-13.00	60.01	Horizontal
4	3320.4500	42.24	-46.65	28.49	-71.18	-13.00	58.18	Horizontal
5	3984.5400	41.09	-46.20	29.08	-71.29	-13.00	58.29	Horizontal
6	4648.6300	40.05	-45.79	30.63	-70.38	-13.00	57.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1328.1800	43.59	-48.09	25.14	-74.63	-13.00	61.63	Vertical
2	1992.2700	42.72	-47.91	25.89	-74.57	-13.00	61.57	Vertical
3	2656.3600	43.89	-47.00	27.61	-70.75	-13.00	57.75	Vertical
4	3320.4500	43.02	-46.65	28.49	-70.40	-13.00	57.40	Vertical
5	3984.5400	41.43	-46.20	29.08	-70.95	-13.00	57.95	Vertical
6	4648.6300	39.89	-45.79	30.63	-70.54	-13.00	57.54	Vertical



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Test Band = LTE Band71_ 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	1348.1800	43.33	-48.07	25.13	-74.87	-13.00	61.87	Horizontal
2	2022.2700	41.94	-47.86	25.96	-75.22	-13.00	62.22	Horizontal
3	2696.3600	42.76	-47.05	27.69	-71.85	-13.00	58.85	Horizontal
4	3370.4500	41.69	-46.58	28.52	-71.63	-13.00	58.63	Horizontal
5	4044.5400	40.04	-46.07	29.21	-72.08	-13.00	59.08	Horizontal
6	4718.6300	40.32	-45.77	30.78	-69.93	-13.00	56.93	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1348.1800	44.14	-48.07	25.13	-74.06	-13.00	61.06	Vertical
2	2022.2700	42.80	-47.86	25.96	-74.36	-13.00	61.36	Vertical
3	2696.3600	42.47	-47.05	27.69	-72.14	-13.00	59.14	Vertical
4	3370.4500	41.98	-46.58	28.52	-71.34	-13.00	58.34	Vertical
5	4044.5400	40.35	-46.07	29.21	-71.77	-13.00	58.77	Vertical
6	4718.6300	41.03	-45.77	30.78	-69.22	-13.00	56.22	Vertical



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Test Band = LTE Band71_ 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	1358.1800	42.49	-48.05	25.12	-75.70	-13.00	62.70	Horizontal
2	2037.2700	42.97	-47.83	26.01	-74.11	-13.00	61.11	Horizontal
3	2716.3600	43.12	-47.03	27.73	-71.44	-13.00	58.44	Horizontal
4	3395.4500	41.17	-46.55	28.54	-72.10	-13.00	59.10	Horizontal
5	4074.5400	40.40	-45.98	29.28	-71.56	-13.00	58.56	Horizontal
6	4753.6300	40.86	-45.71	30.86	-69.26	-13.00	56.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1358.1800	44.04	-48.05	25.12	-74.15	-13.00	61.15	Vertical
2	2037.2700	43.16	-47.83	26.01	-73.92	-13.00	60.92	Vertical
3	2716.3600	42.67	-47.03	27.73	-71.89	-13.00	58.89	Vertical
4	3395.4500	40.97	-46.55	28.54	-72.30	-13.00	59.30	Vertical
5	4074.5400	40.95	-45.98	29.28	-71.01	-13.00	58.01	Vertical
6	4753.6300	40.15	-45.71	30.86	-69.97	-13.00	56.97	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
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	2.40	0.003514	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	0.50	0.000732	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	2.10	0.004539	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	0.30	0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	1.20	0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	0.90	0.001318	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	0.90	0.001318	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	0.90	0.001318	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	2.90	0.004246	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	0.20	0.000293	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	0.10	0.000146	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	1.10	0.001611	PASS

---End of Attachment---



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