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Appendix B.19

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	23.47	21.75	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.37	21.65	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.27	21.55	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.36	20.64	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.36	21.64	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.26	21.54	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.18	21.46	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.32	20.60	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.38	21.66	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.34	21.62	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.24	21.52	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.32	20.60	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.71	20.99	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.58	20.86	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.48	20.76	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.25	19.53	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.60	20.88	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.60	20.88	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.46	20.74	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.33	19.61	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.63	20.91	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.71	20.99	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.53	20.81	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.34	19.62	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.24	21.52	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.54	21.82	34.77	PASS



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Band71	10MHz	QPSK	133172	1RB#49	23.44	21.72	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.64	20.92	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.62	21.90	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.56	21.84	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.40	21.68	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.63	20.91	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.54	21.82	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.61	21.89	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.55	21.83	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.62	20.90	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.33	20.61	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.81	21.09	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.60	20.88	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.61	19.89	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.84	21.12	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.83	21.11	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.63	20.91	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.60	19.88	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.81	21.09	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.88	21.16	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.80	21.08	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.54	19.82	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.02	21.30	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.44	21.72	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.52	21.80	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.62	20.90	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.55	21.83	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.53	21.81	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.26	21.54	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.47	20.75	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.38	21.66	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.46	21.74	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.43	21.71	34.77	PASS



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Band71	15MHz	QPSK	133397	75RB#0	22.44	20.72	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.16	20.44	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.70	20.98	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.81	21.09	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.63	19.91	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.85	21.13	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.78	21.06	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.48	20.76	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.50	19.78	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.68	20.96	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.69	20.97	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.83	21.11	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.39	19.67	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.91	21.19	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.48	21.76	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.31	21.59	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.55	20.83	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.51	21.79	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.35	21.63	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.25	21.53	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.49	20.77	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.51	21.79	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.40	21.68	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.42	21.70	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.48	20.76	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.11	20.39	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.75	21.03	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.51	20.79	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.53	19.81	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.73	21.01	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.56	20.84	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.56	20.84	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.47	19.75	34.77	PASS



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Band71	20MHz	16QAM	133372	1RB#0	22.77	21.05	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.66	20.94	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.78	21.06	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.42	19.70	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	5.36	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.14	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.46	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.12	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.00	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.22	13	PASS



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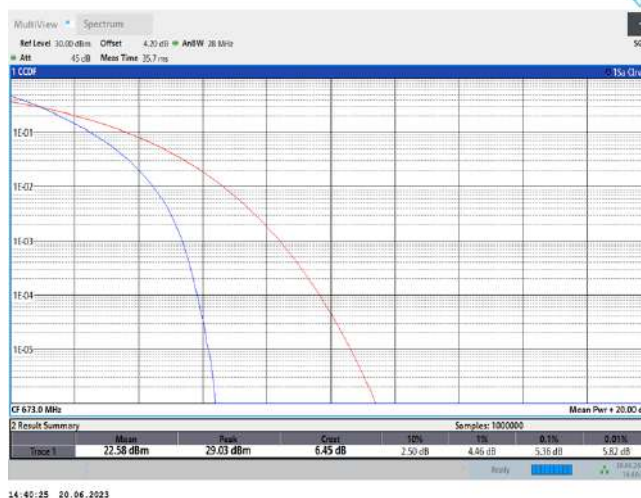
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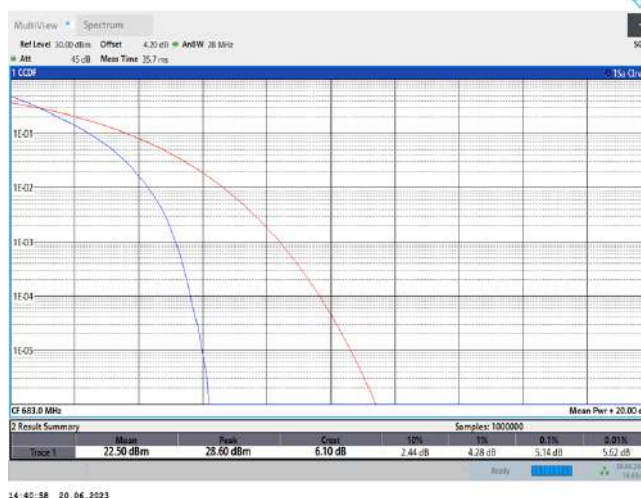
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Test Graphs

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



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



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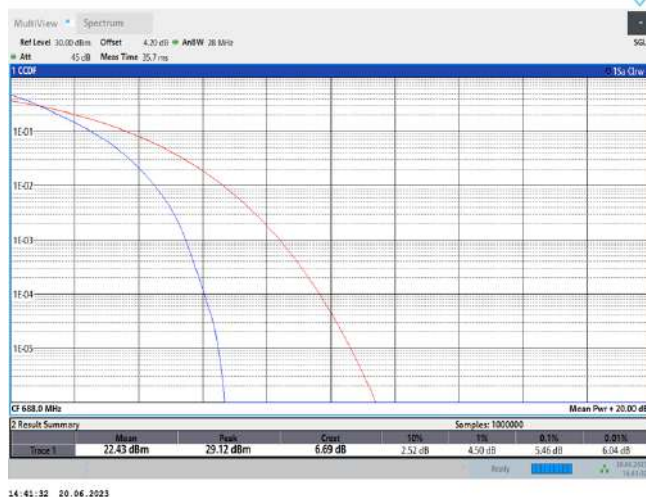
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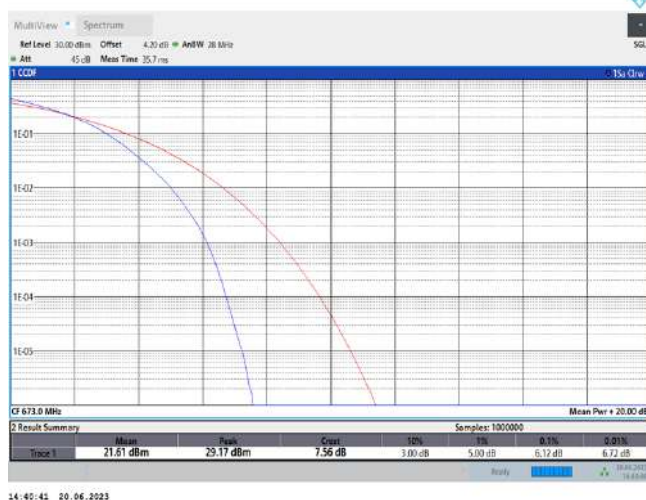
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Band71-20MHz-QPSK-133372-100RB#0



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



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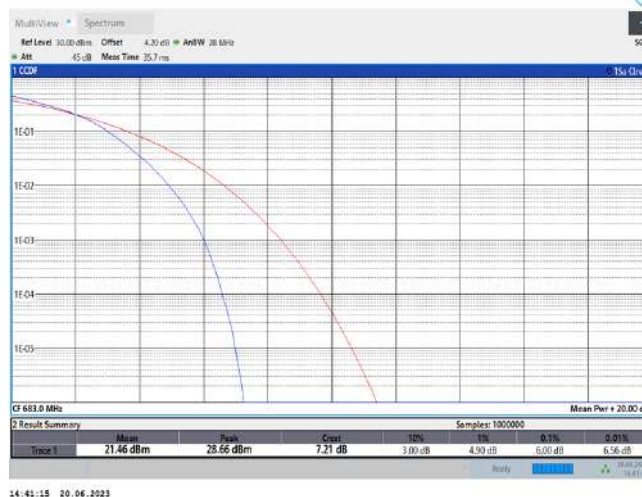
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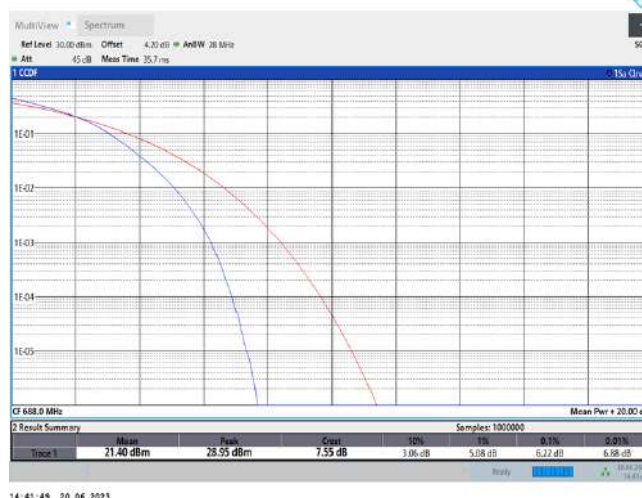
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Band71-20MHz-16QAM-133322-100RB#0



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



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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	133147	25RB#0	4.467	4.88	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.472	4.88	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.475	4.89	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.473	4.89	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.471	4.90	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.469	4.90	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.924	9.58	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.922	9.66	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.947	9.72	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.896	9.64	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.915	9.60	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.933	9.68	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.429	14.70	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.425	14.67	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.493	14.70	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.416	14.76	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.411	14.70	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.479	14.67	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.914	19.36	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.853	19.36	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.894	19.36	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.855	19.32	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.833	19.32	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.865	19.36	PASS



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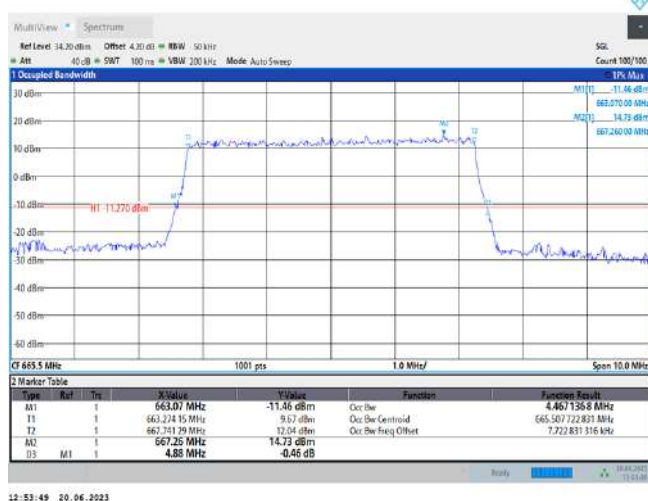
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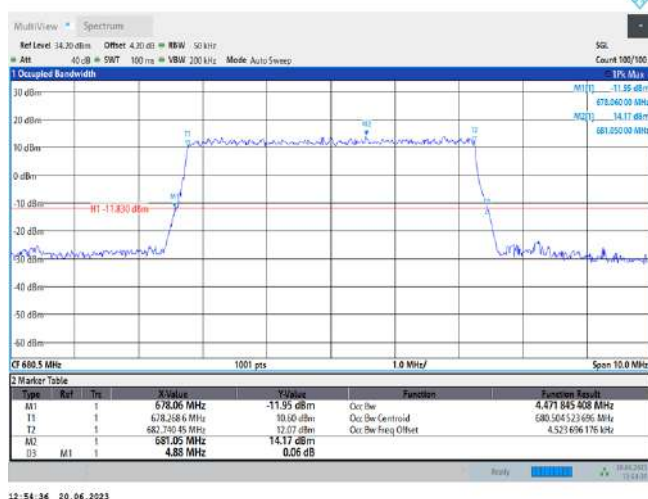
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Test Graphs

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



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



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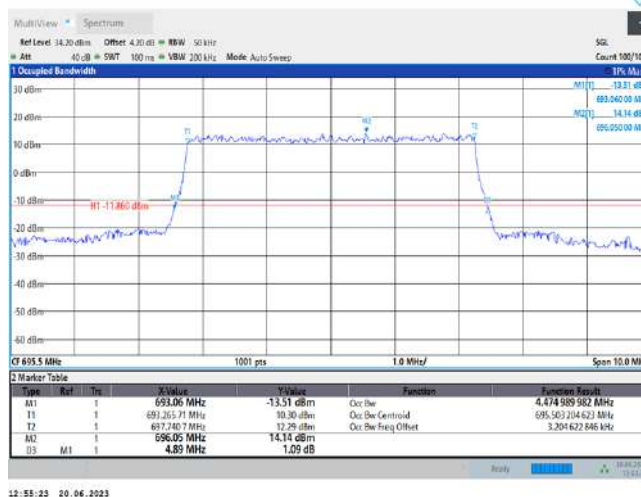
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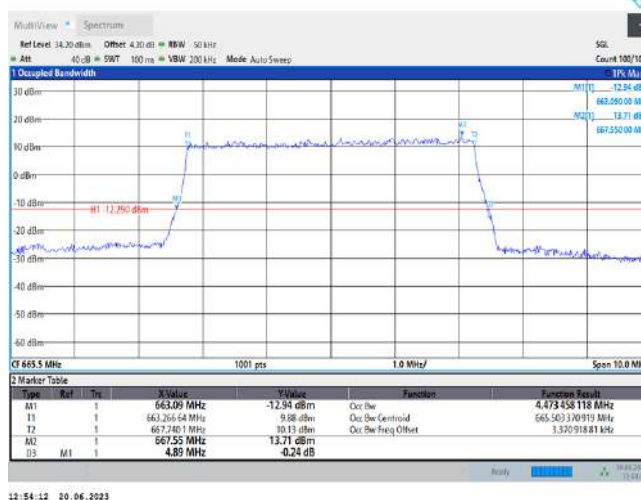
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Band71-5MHz-QPSK-133447-25RB#0



Band71-5MHz-16QAM-133147-25RB#0



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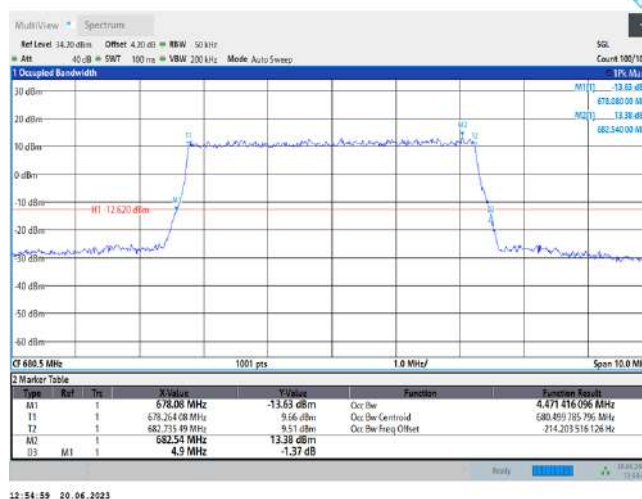
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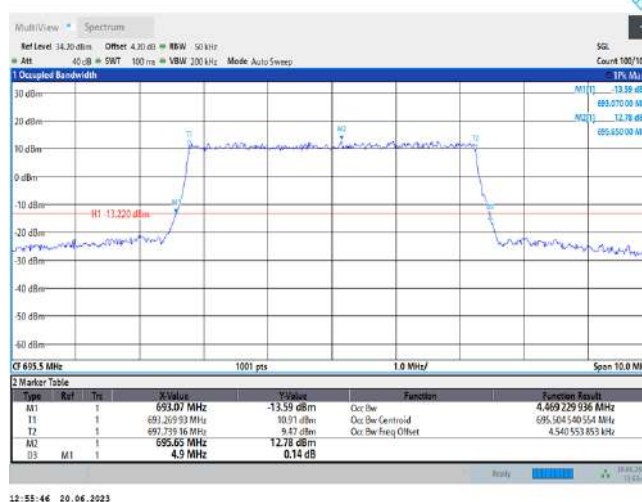
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Band71-5MHz-16QAM-133297-25RB#0



Band71-5MHz-16QAM-133447-25RB#0



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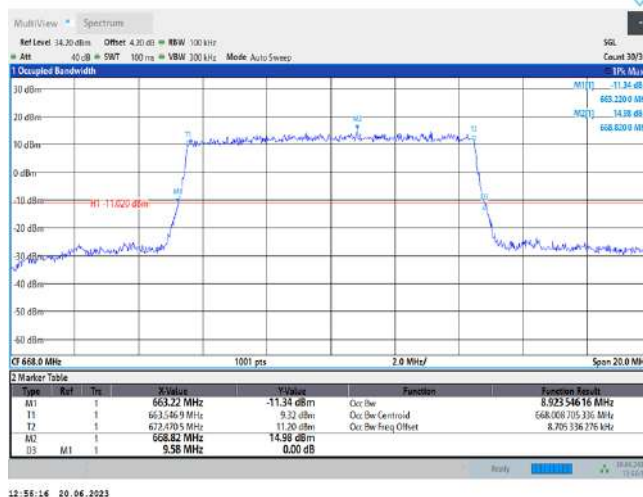
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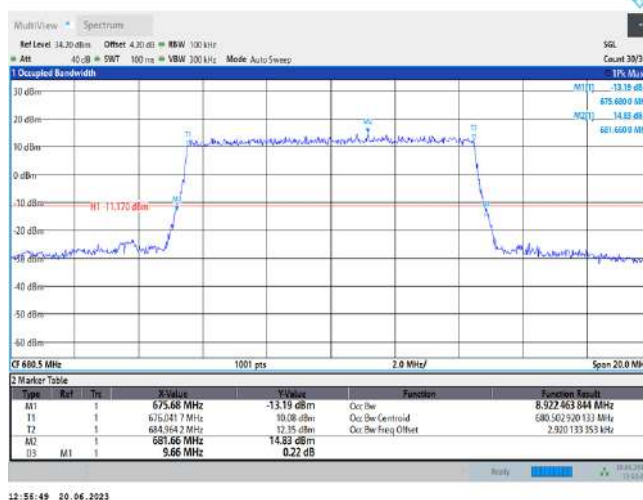
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Band71-10MHz-QPSK-133172-50RB#0



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



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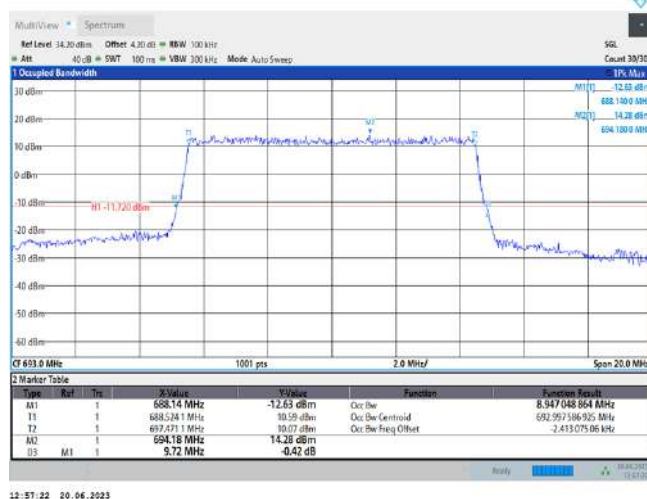
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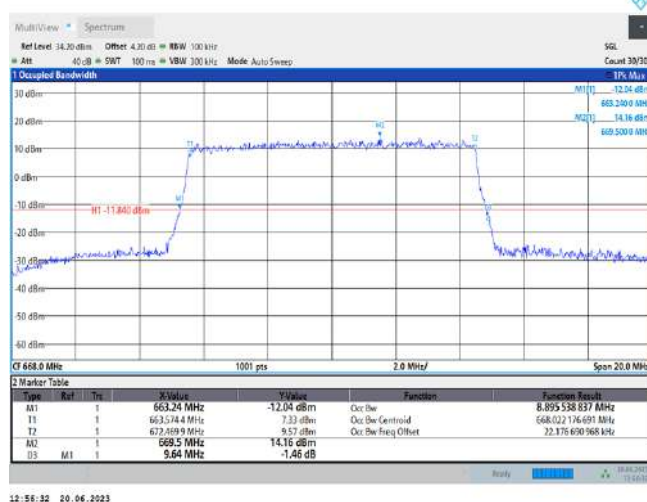
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Band71-10MHz-QPSK-133422-50RB#0



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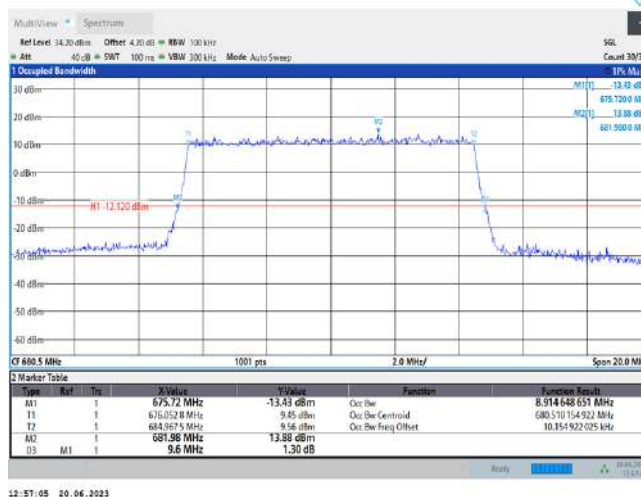
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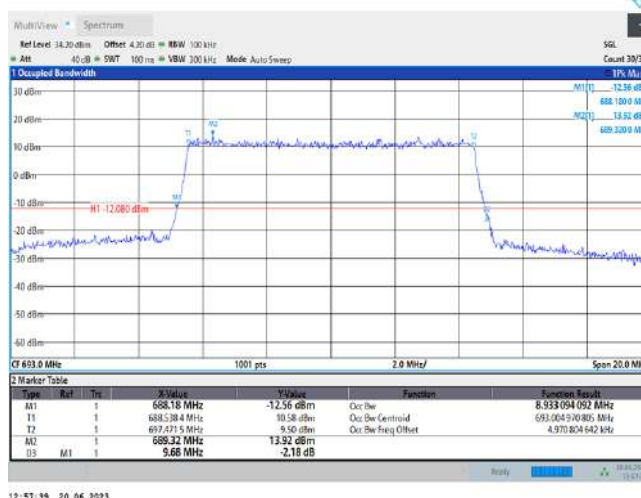
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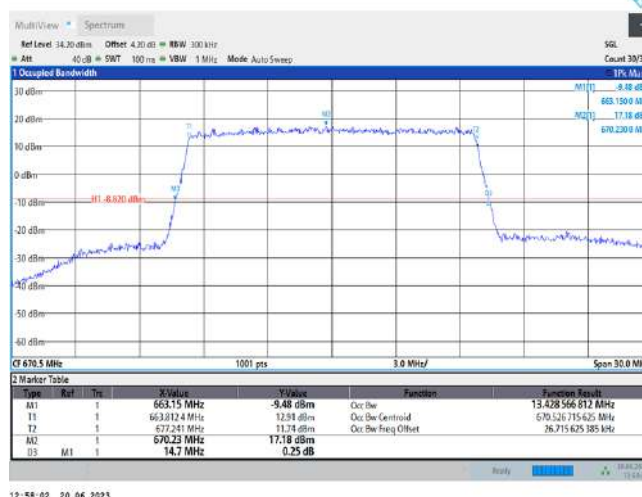
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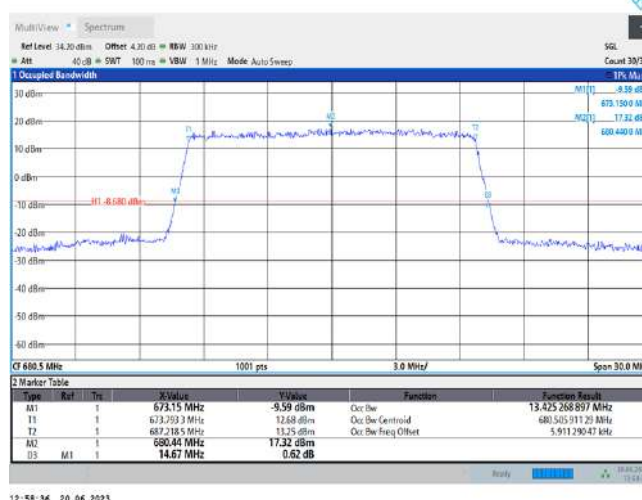
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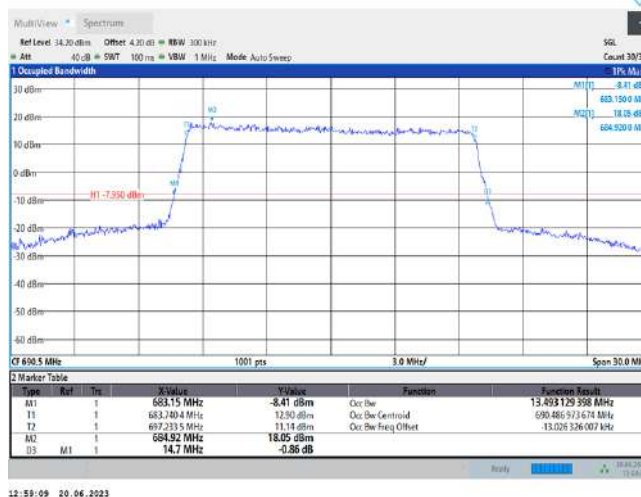
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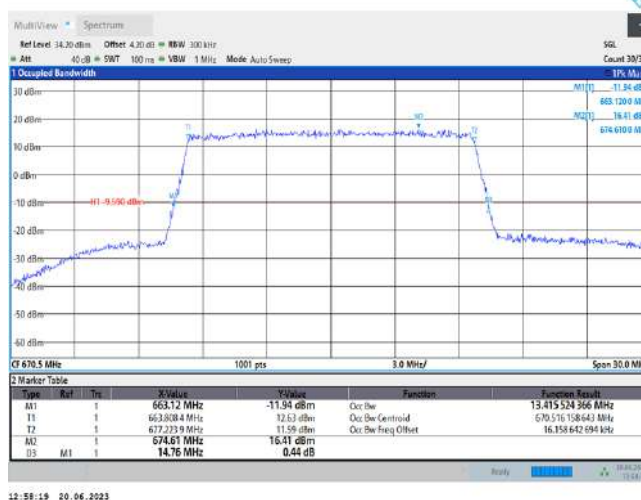
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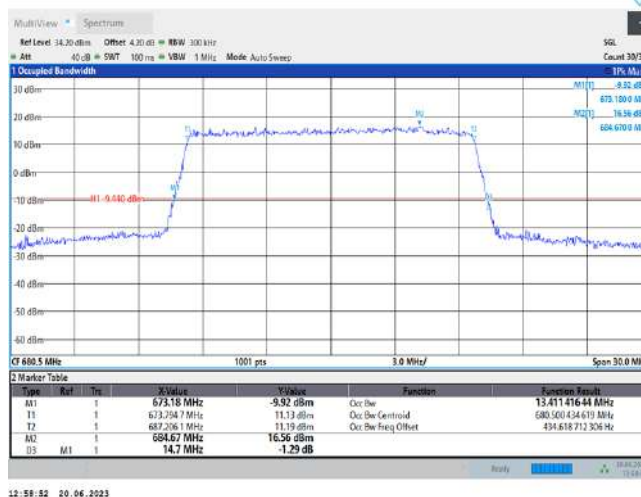
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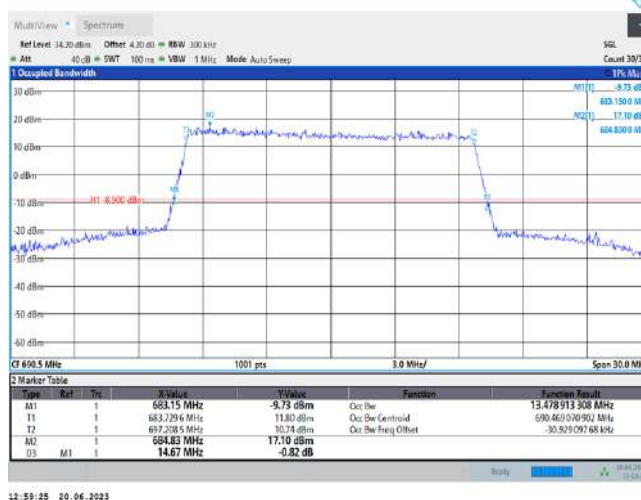
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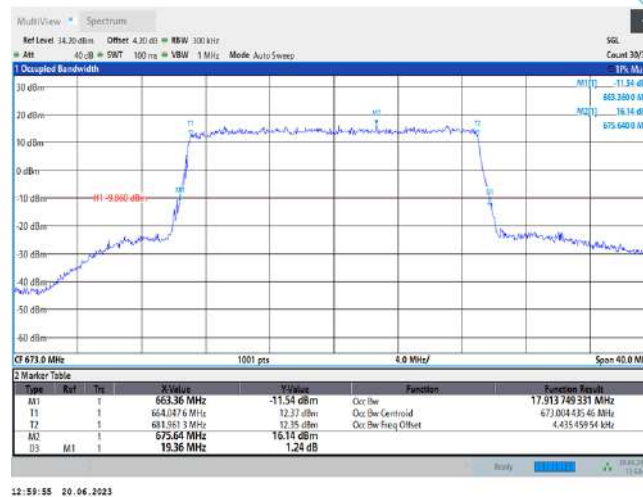
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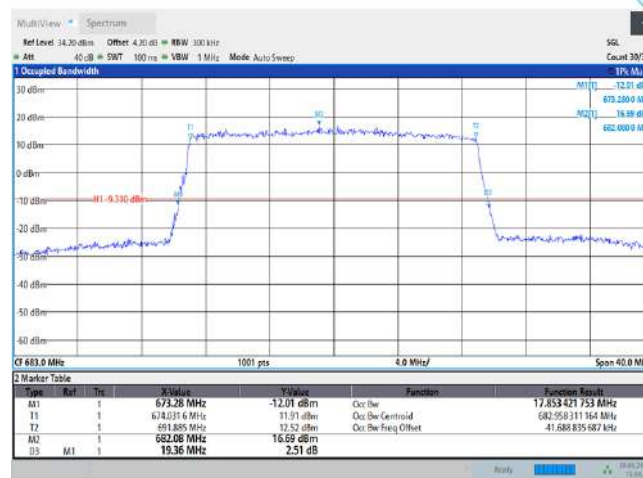
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Band71-20MHz-QPSK-133222-100RB#0



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



13:00:28 20.06.2023



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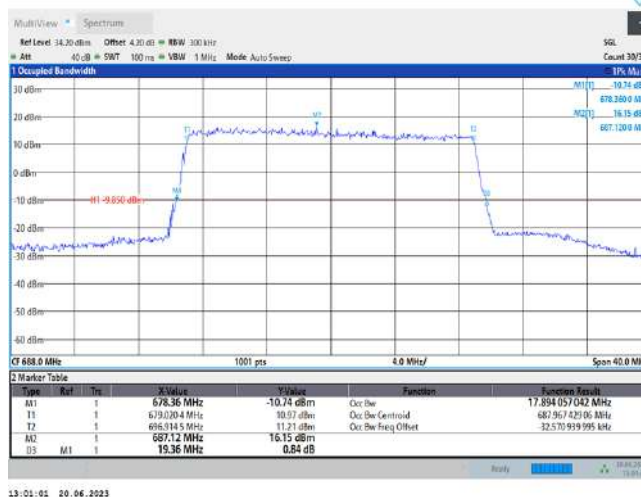
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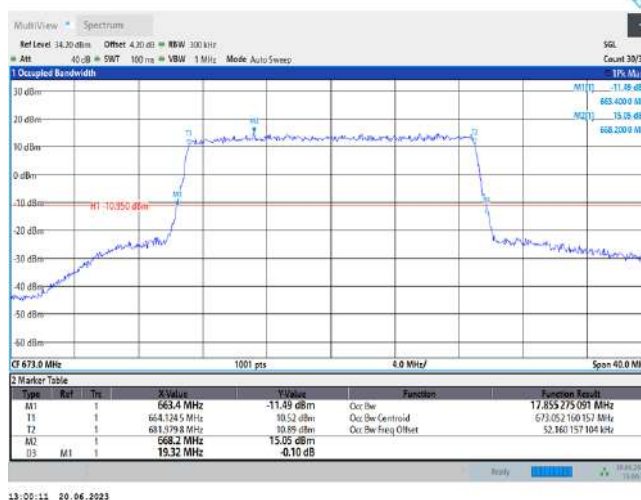
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Band71-20MHz-QPSK-133372-100RB#0



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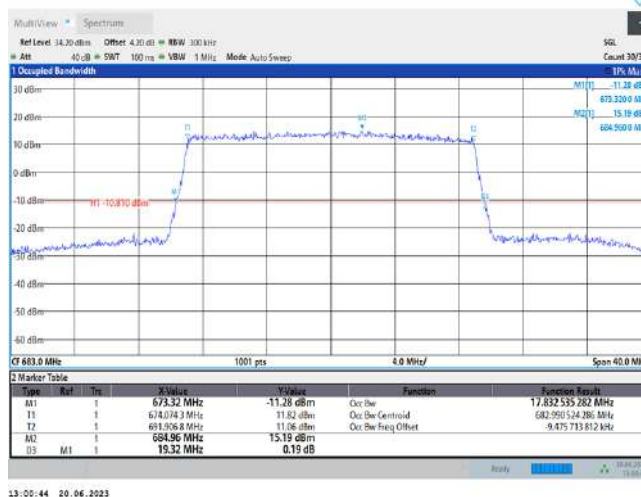
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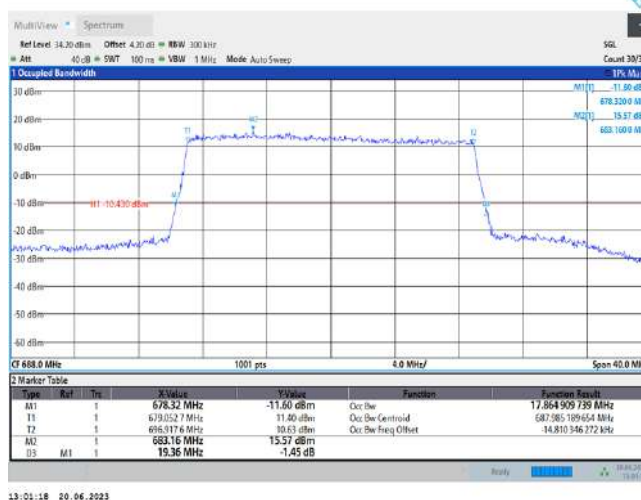
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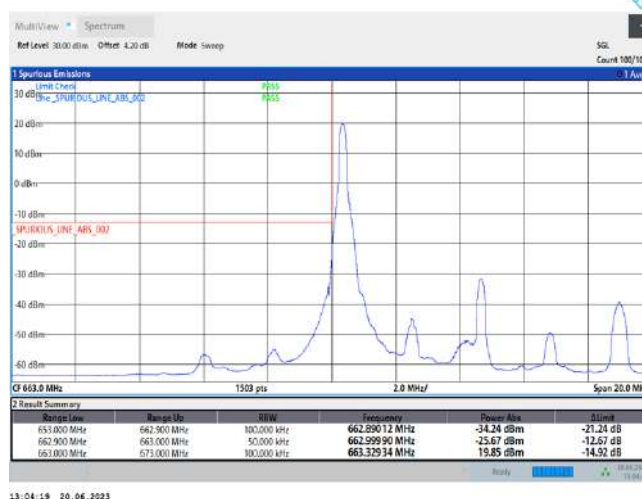
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Band Edge

Test Graphs

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



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



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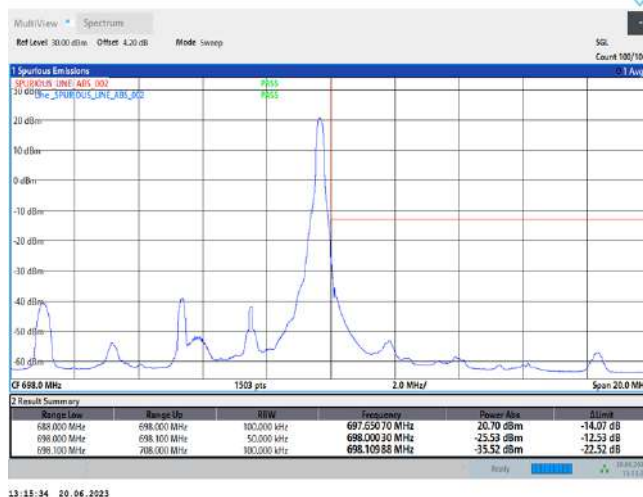
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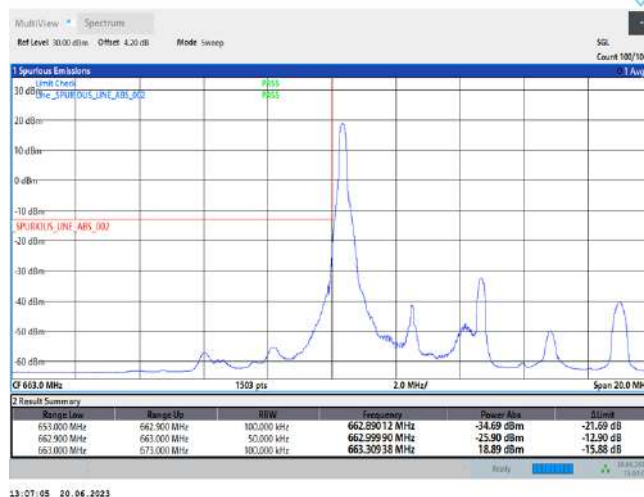
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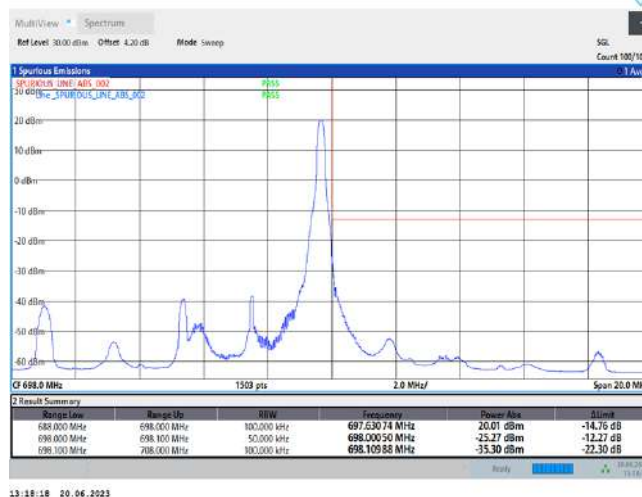
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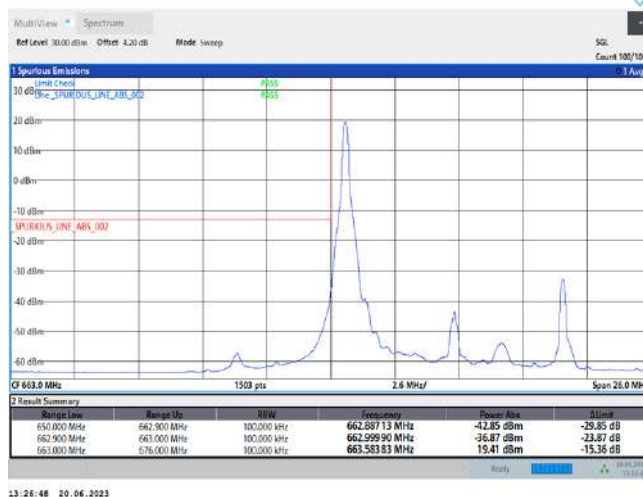
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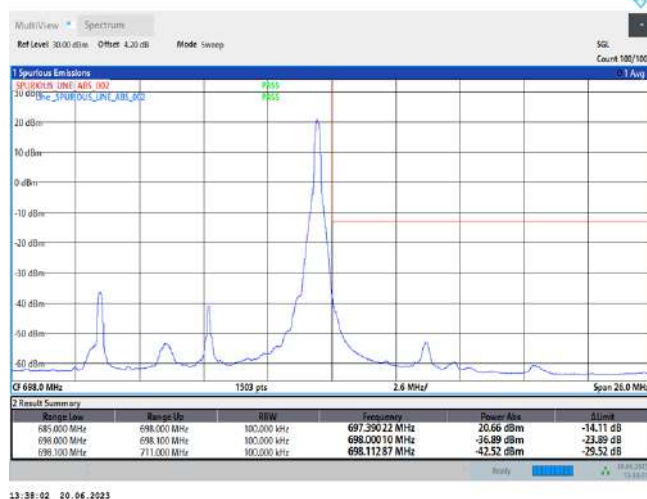
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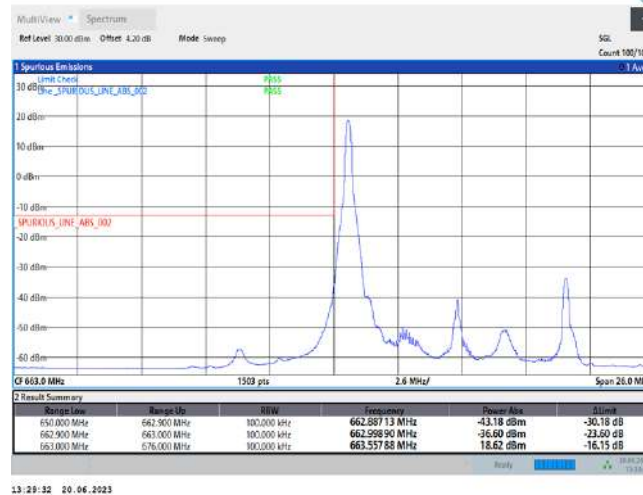
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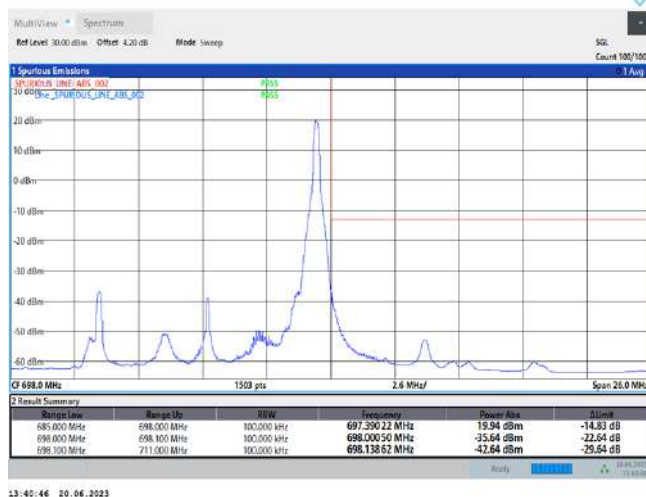
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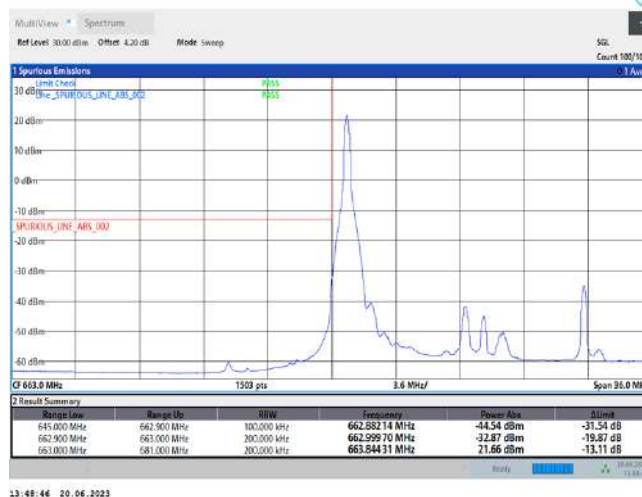
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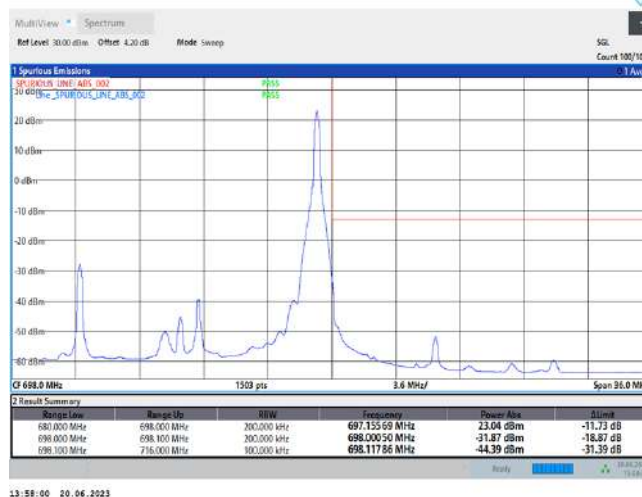
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Band71-15MHz-16QAM-133197-1RB#0



Band71-15MHz-16QAM-133197-75RB#0



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Band71-15MHz-16QAM-133397-1RB#74



14:00:15 20.06.2023

Band71-15MHz-16QAM-133397-75RB#0



14:04:43 20.06.2023



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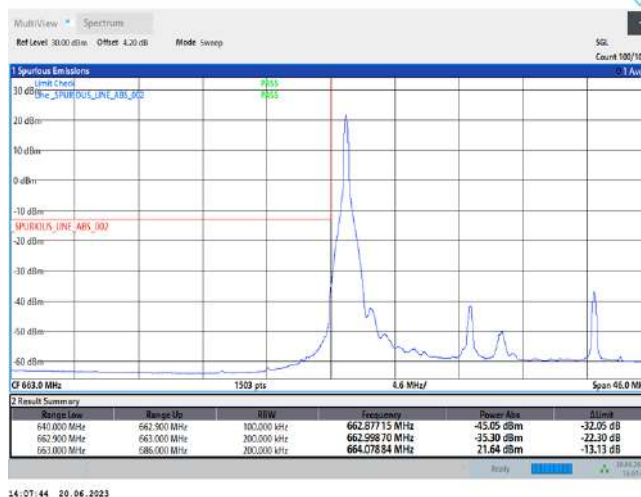
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Band71-20MHz-QPSK-133222-1RB#0



14:07:44 20.06.2023

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



14:13:13 20.06.2023



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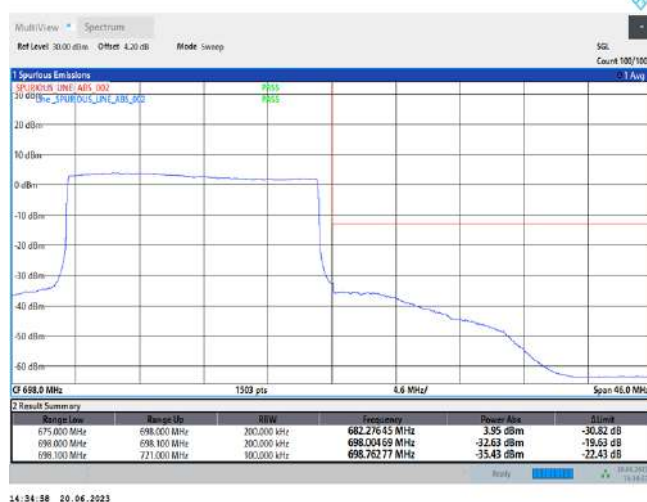
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Band71-20MHz-QPSK-133372-1RB#99



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



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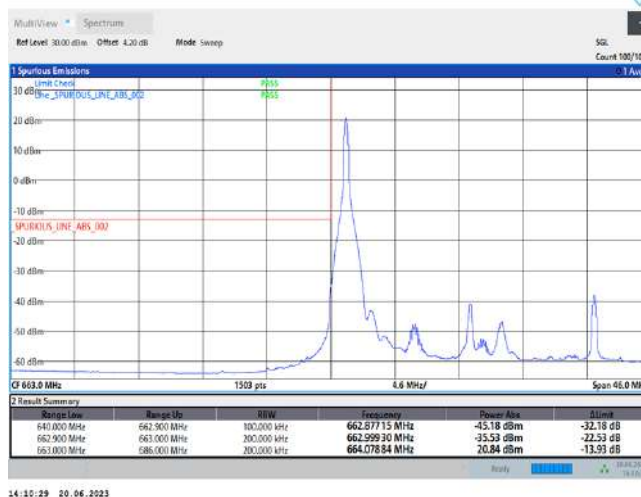
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Band71-20MHz-16QAM-133222-1RB#0



14:10:29 20.06.2023

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



14:11:57 20.06.2023



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14:32:13 20.06.2023

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



14:37:42 20.06.2023



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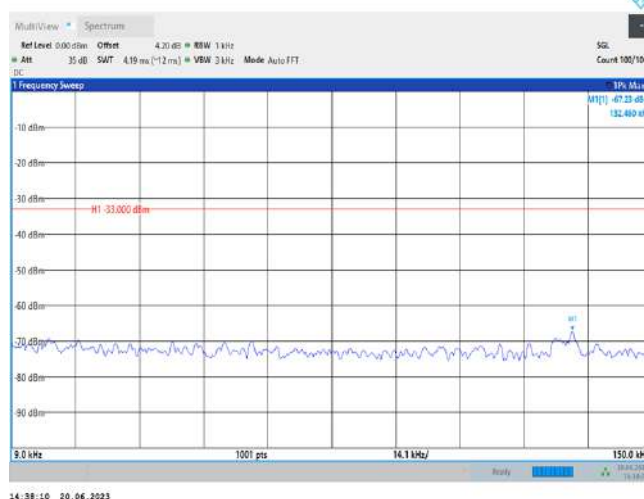
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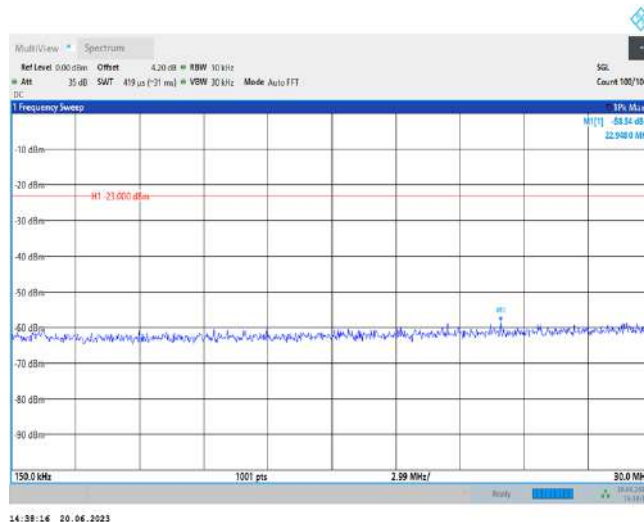
Conducted Spurious Emission

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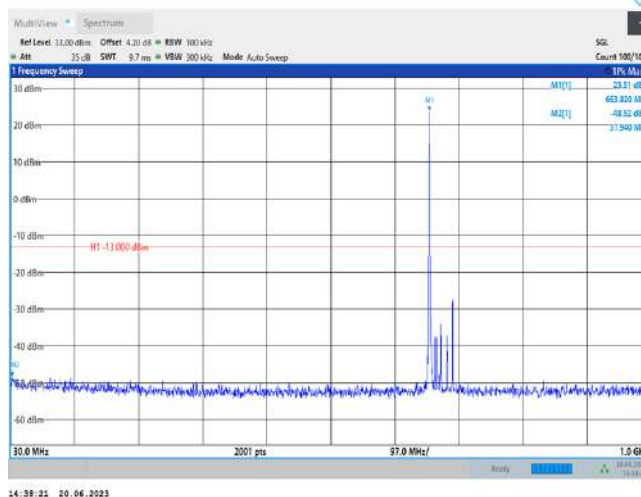
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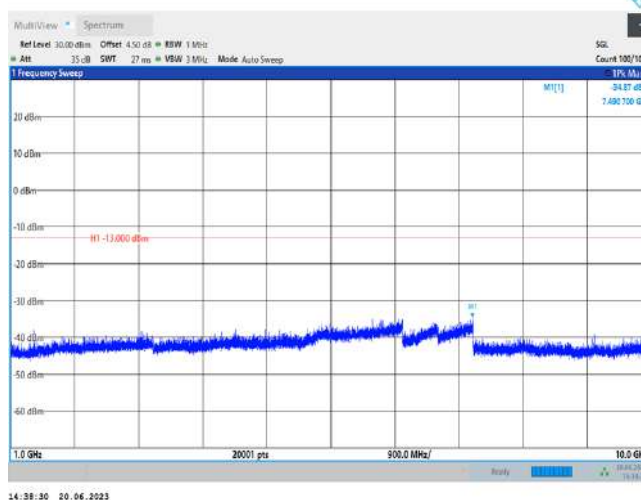
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Band71-20MHz-QPSK-133222-1RB#0-Range3:30~1000MHz



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



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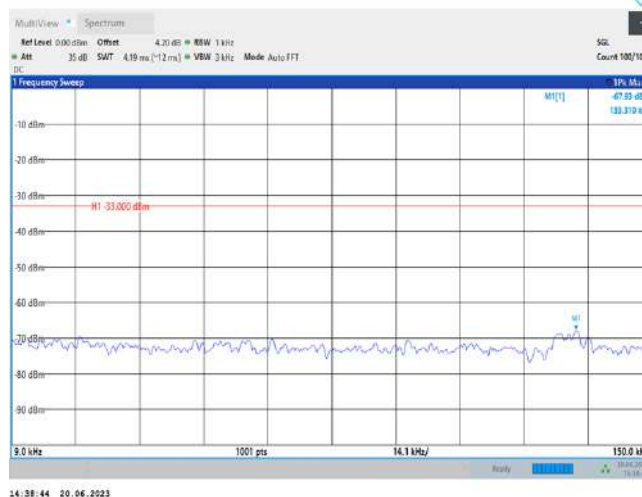
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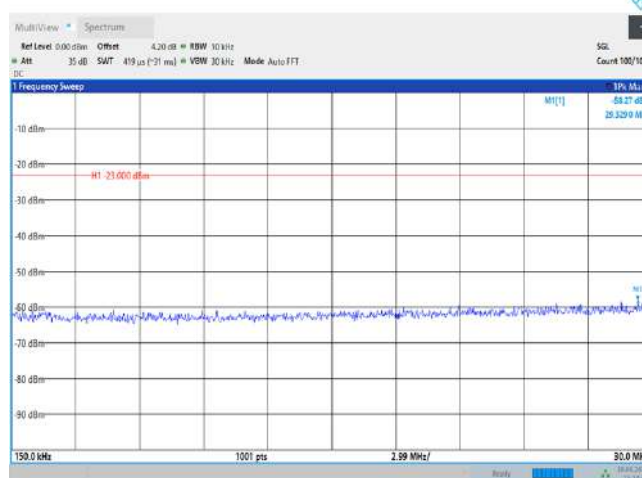
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Band71-20MHz-QPSK-133322-1RB#0-Range1:0.009~0.15MHz



14:38:44 20.06.2023

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



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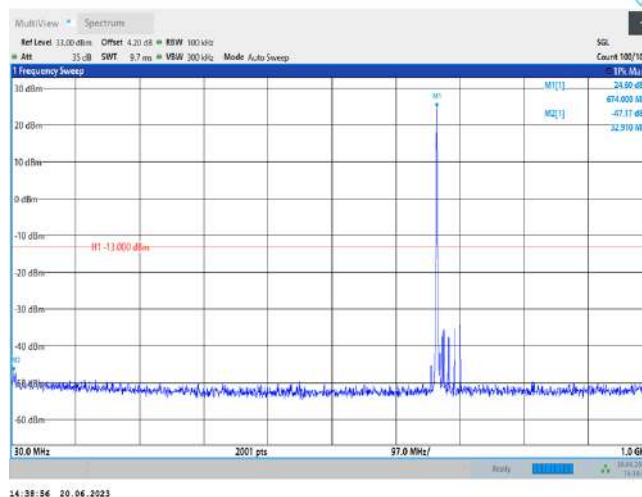
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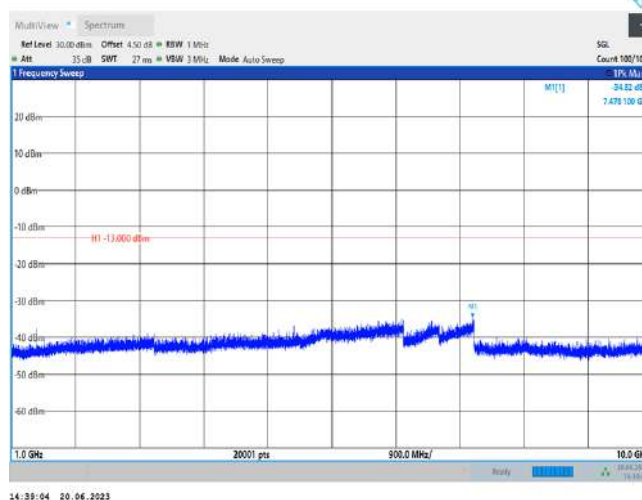
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Band71-20MHz-QPSK-133322-1RB#0-Range3:30~1000MHz



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



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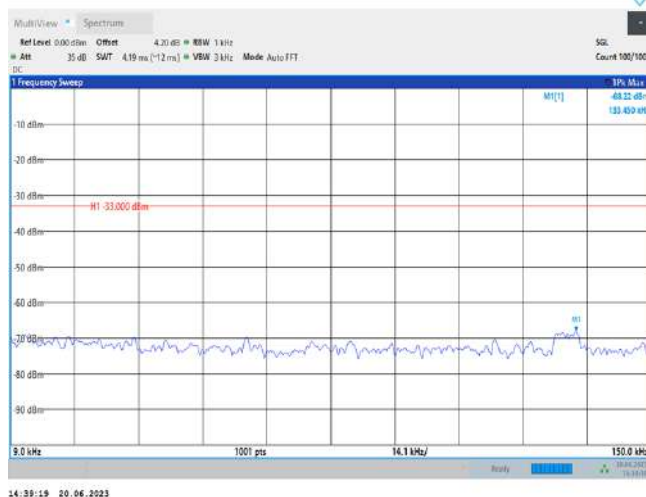
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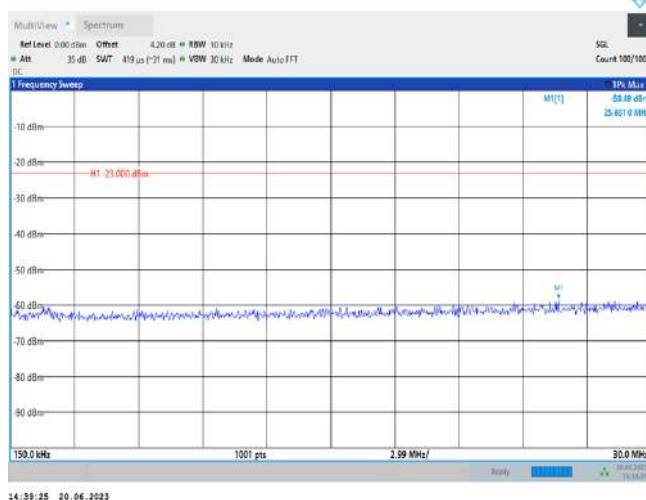
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Band71-20MHz-QPSK-133372-1RB#0-Range1:0.009~0.15MHz



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



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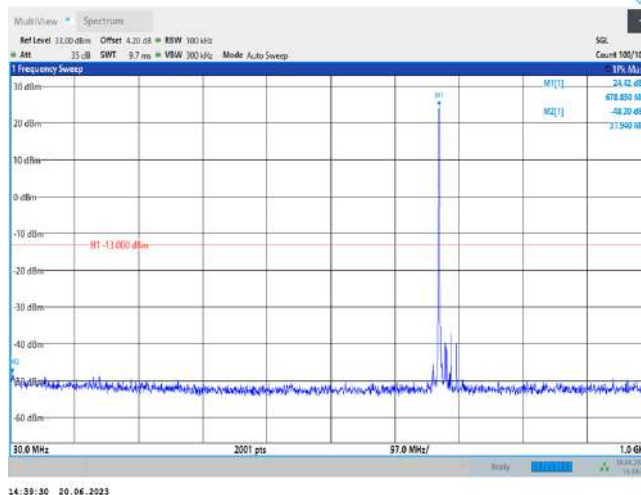
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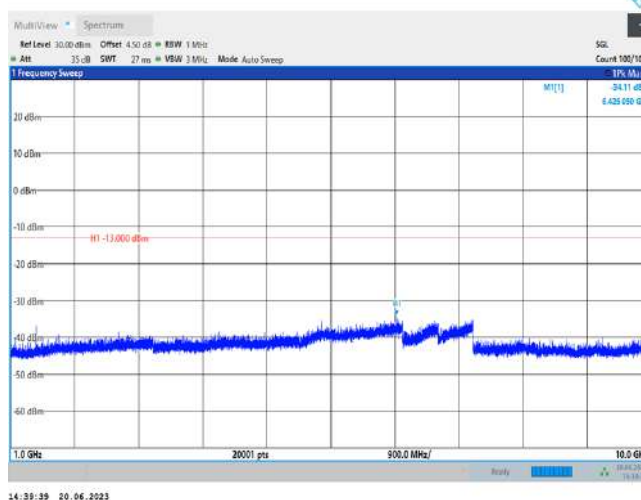
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Field Strength of Spurious Radiation

Test Band = LTE Band 71_20MHz_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.18	47.74	-48.79	25.54	-70.76	-13.00	57.76	196	360	Horizontal
2	1992.27	39.97	-48.08	26.85	-76.52	-13.00	63.52	265	118	Horizontal
3	2656.36	43.26	-47.14	28.43	-70.71	-13.00	57.71	284	162	Horizontal
4	3320.45	42.03	-46.14	29.47	-69.90	-13.00	56.90	142	359	Horizontal
5	3984.54	41.88	-45.50	30.56	-68.32	-13.00	55.32	263	59	Horizontal
6	4648.63	40.67	-44.59	31.76	-67.42	-13.00	54.42	224	59	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	1328.18	47.77	-48.79	25.54	-70.73	-13.00	57.73	196	241	Vertical
2	1992.27	42.49	-48.08	26.85	-74.00	-13.00	61.00	265	181	Vertical
3	2656.36	43.26	-47.14	28.43	-70.71	-13.00	57.71	284	136	Vertical
4	3320.45	42.72	-46.14	29.47	-69.21	-13.00	56.21	142	257	Vertical
5	3984.54	42.45	-45.50	30.56	-67.75	-13.00	54.75	263	92	Vertical
6	4648.63	40.22	-44.59	31.76	-67.87	-13.00	54.87	224	181	Vertical



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Test Band = LTE Band 71_ 20MHz_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1348.18	43.90	-48.77	25.50	-74.63	-13.00	61.63	196	164	Horizontal
2	2022.27	39.50	-48.04	26.95	-76.85	-13.00	63.85	265	164	Horizontal
3	2696.36	43.48	-47.07	28.57	-70.28	-13.00	57.28	284	283	Horizontal
4	3370.45	42.21	-46.23	29.45	-69.83	-13.00	56.83	174	268	Horizontal
5	4044.54	41.76	-45.46	30.67	-68.29	-13.00	55.29	142	253	Horizontal
6	4718.63	41.61	-44.56	31.93	-66.29	-13.00	53.29	263	297	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	1348.18	45.31	-48.77	25.50	-73.22	-13.00	60.22	196	257	Vertical
2	2022.27	40.67	-48.04	26.95	-75.68	-13.00	62.68	265	167	Vertical
3	2696.36	43.65	-47.07	28.57	-70.11	-13.00	57.11	284	123	Vertical
4	3370.45	42.28	-46.23	29.45	-69.76	-13.00	56.76	142	181	Vertical
5	4044.54	42.05	-45.46	30.67	-68.00	-13.00	55.00	263	92	Vertical
6	4718.63	40.73	-44.56	31.93	-67.17	-13.00	54.17	228	123	Vertical



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Test Band = LTE Band 71_ 20MHz_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.18	45.01	-48.76	25.48	-73.53	-13.00	60.53	196	268	Horizontal
2	2037.27	41.43	-48.01	26.98	-74.86	-13.00	61.86	265	239	Horizontal
3	2716.36	42.57	-47.00	28.64	-71.05	-13.00	58.05	284	90	Horizontal
4	3395.45	42.47	-46.27	29.44	-69.62	-13.00	56.62	142	352	Horizontal
5	4074.54	41.79	-45.43	30.72	-68.18	-13.00	55.18	255	119	Horizontal
6	4753.63	41.29	-44.58	32.01	-66.54	-13.00	53.54	263	178	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	1358.18	45.24	-48.76	25.48	-73.30	-13.00	60.30	196	332	Vertical
2	2037.27	43.13	-48.01	26.98	-73.16	-13.00	60.16	265	196	Vertical
3	2716.36	43.60	-47.00	28.64	-70.02	-13.00	57.02	284	332	Vertical
4	3395.45	43.65	-46.27	29.44	-68.44	-13.00	55.44	142	227	Vertical
5	4074.54	42.45	-45.43	30.72	-67.52	-13.00	54.52	263	241	Vertical
6	4753.63	40.41	-44.58	32.01	-67.42	-13.00	54.42	228	256	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	-0.30	-0.000359	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-2.00	-0.002391	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-3.70	-0.004423	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-3.00	-0.003586	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.10	-0.001315	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-4.50	-0.005380	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-5.80	-0.006934	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-5.80	-0.006934	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-3.10	-0.003706	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-4.00	-0.004782	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-3.90	-0.004662	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-1.70	-0.002032	PASS

---End of Attachment---



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