

Report No.: SEWA2208000035RG01

Rev.: 01

Page: 1 of 43

Appendix B.14

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	22.95	22.46	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.91	22.42	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.88	22.39	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.95	21.46	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23	22.51	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.93	22.44	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.87	22.38	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.98	21.49	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.94	22.45	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.87	22.38	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.81	22.32	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.94	21.45	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.29	21.8	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.2	21.71	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.08	21.59	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	20.95	20.46	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.32	21.83	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.24	21.75	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.17	21.68	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.02	20.53	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.15	21.66	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.22	21.73	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.1	21.61	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.96	20.47	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.94	22.45	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	22.86	22.37	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.89	22.4	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.17	21.68	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.05	22.56	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.99	22.5	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.97	22.48	34.77	PASS



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Report No.: SEWA2208000035RG01

Rev.: 01

Page: 3 of 43

Band71	10MHz	QPSK	133297	50RB#0	22.11	21.62	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.04	22.55	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23	22.51	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.89	22.4	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.07	21.58	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.15	21.66	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.1	21.61	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.33	21.84	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.14	20.65	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.34	21.85	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.2	21.71	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.28	21.79	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.09	20.6	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.32	21.83	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.35	21.86	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.13	21.64	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.08	20.59	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.95	22.46	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.94	22.45	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.07	22.58	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.09	21.6	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.09	22.6	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.05	22.56	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.93	22.44	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.1	21.61	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.05	22.56	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.08	22.59	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.89	22.4	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.96	21.47	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.23	21.74	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.32	21.83	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.35	21.86	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.12	20.63	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.42	21.93	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.29	21.8	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.16	21.67	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.1	20.61	34.77	PASS



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Rev.: 01

Page: 4 of 43

Band71	15MHz	16QAM	133397	1RB#0	22.38	21.89	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.29	21.8	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.19	21.7	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.99	20.5	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.93	22.44	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	22.91	22.42	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.93	22.44	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.14	21.65	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.1	22.61	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.04	22.55	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.97	22.48	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.06	21.57	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.12	22.63	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.1	22.61	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.92	22.43	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.98	21.49	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.18	21.69	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.35	21.86	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.19	21.7	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.2	20.71	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.3	21.81	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.37	21.88	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.24	21.75	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.07	20.58	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.36	21.87	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.32	21.83	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.12	21.63	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.99	20.5	34.77	PASS



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Rev.: 01

Page: 5 of 43

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.64	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.60	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.64	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.42	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.50	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.52	13	PASS



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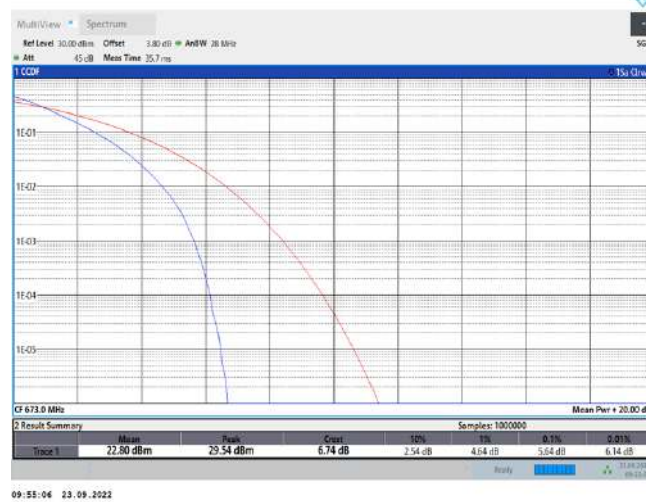
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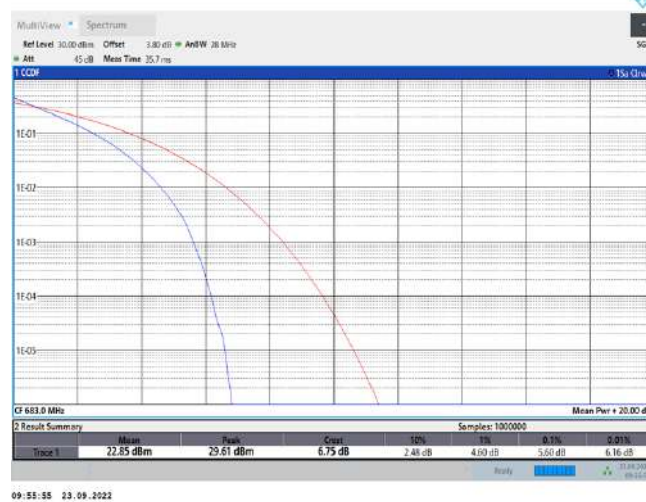
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Test Graphs

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



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



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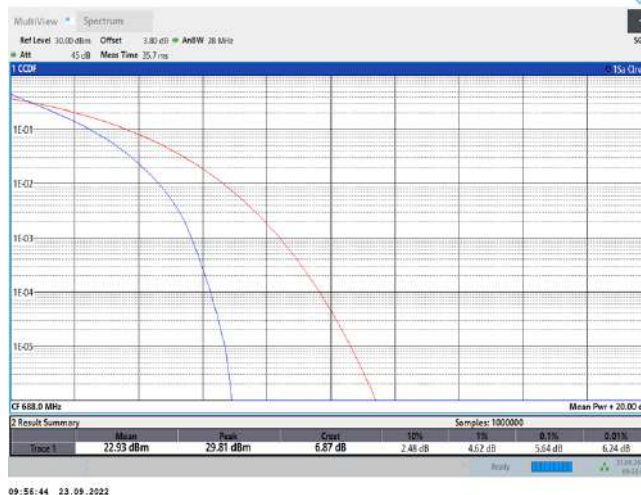
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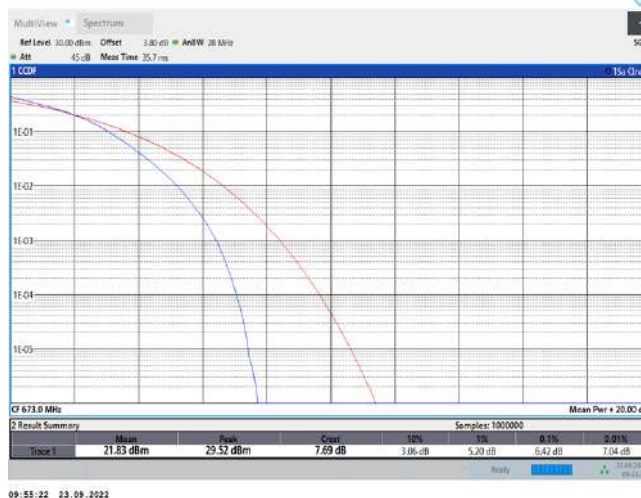
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Band71-20MHz-QPSK-133372-100RB#0



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



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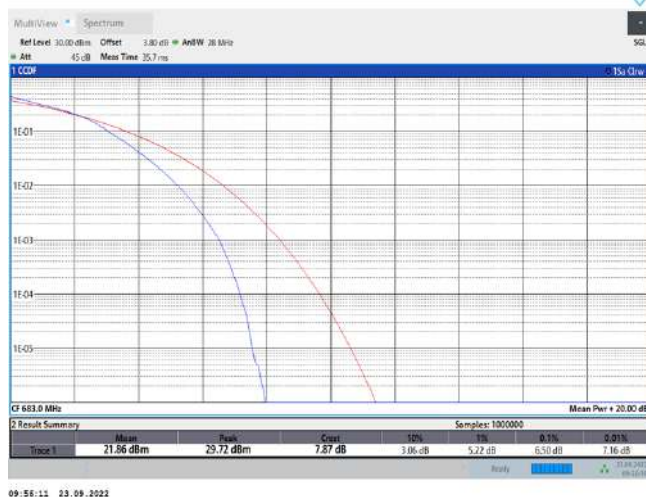
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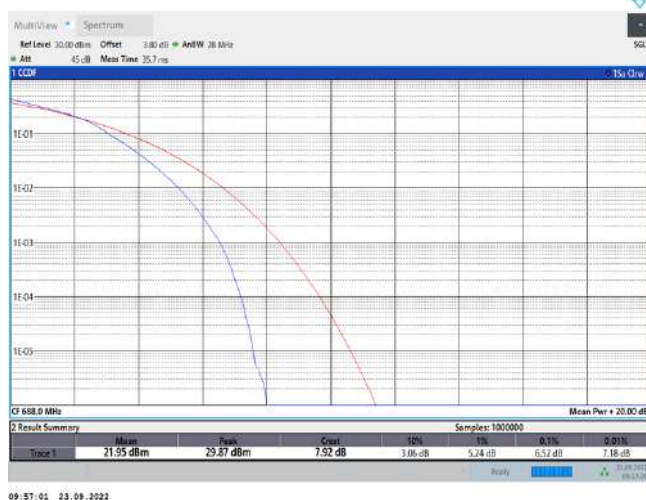
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Page: 8 of 43

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



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



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Report No.: SEWA2208000035RG01

Rev.: 01

Page: 9 of 43

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band71	20MHz	QPSK	133322	100RB#0	PASS	PASS
Band71	20MHz	16QAM	133322	100RB#0	PASS	PASS



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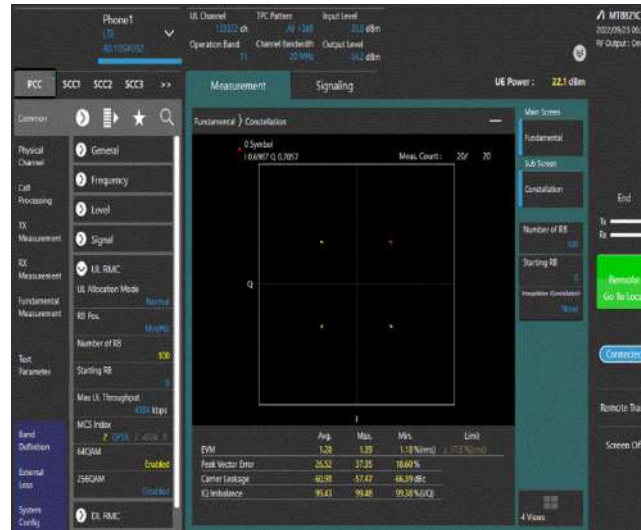
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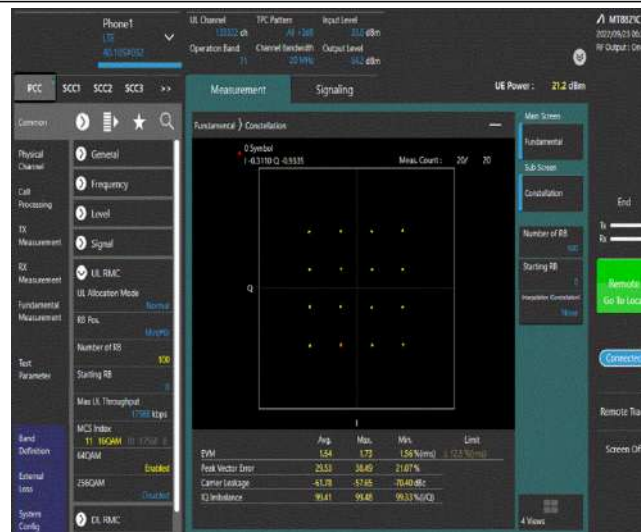
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Test Graphs

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



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



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	4.471	4.89	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.472	4.90	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.471	4.90	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.467	4.89	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.471	4.89	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.468	4.90	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.937	9.62	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.93	9.64	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.931	9.66	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.915	9.64	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.915	9.60	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.91	9.64	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.472	14.73	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.45	14.70	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.47	14.79	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.443	14.79	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.436	14.76	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.449	14.73	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.911	19.40	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.905	19.52	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.929	19.52	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.86	19.36	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.86	19.40	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.893	19.44	PASS



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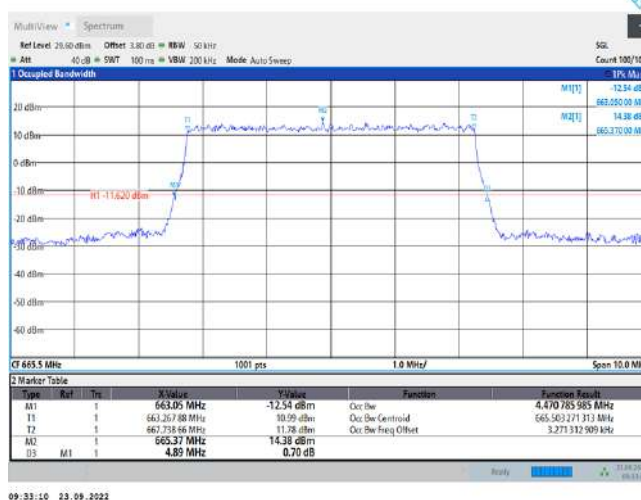
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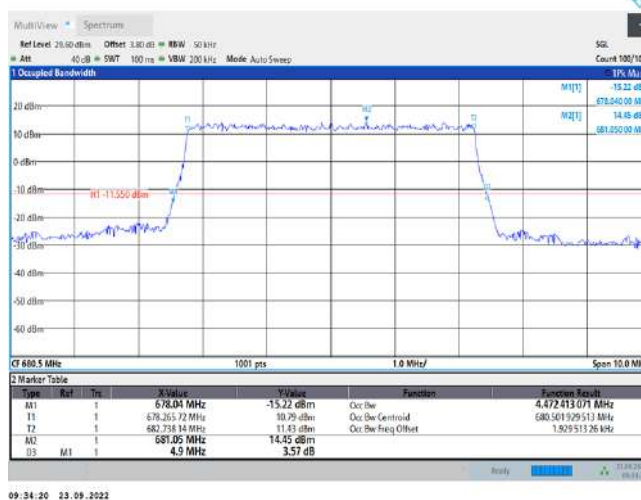
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Test Graphs

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



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



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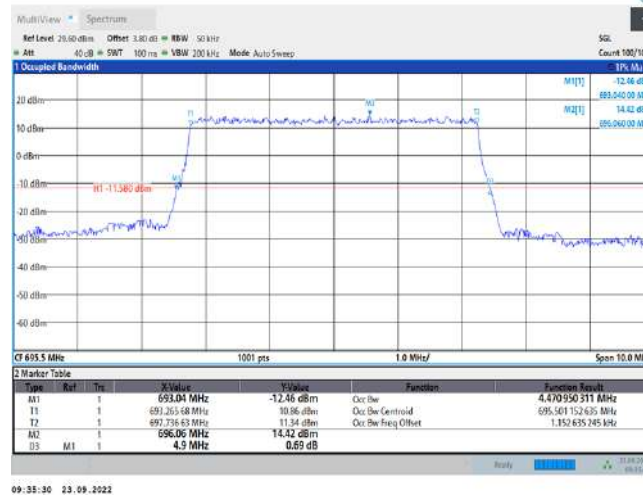
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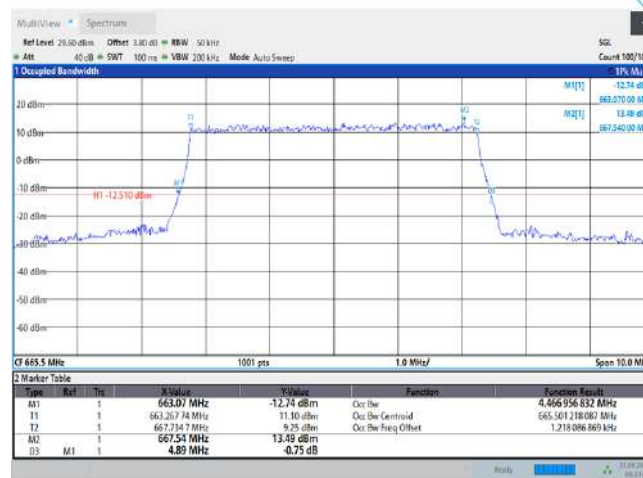
Page: 13 of 43

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



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



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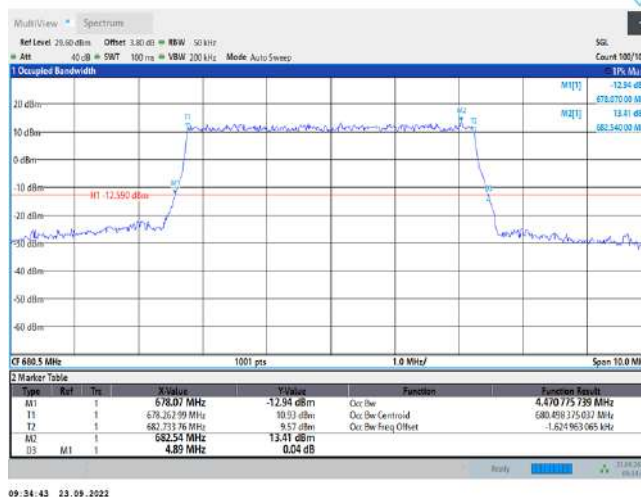
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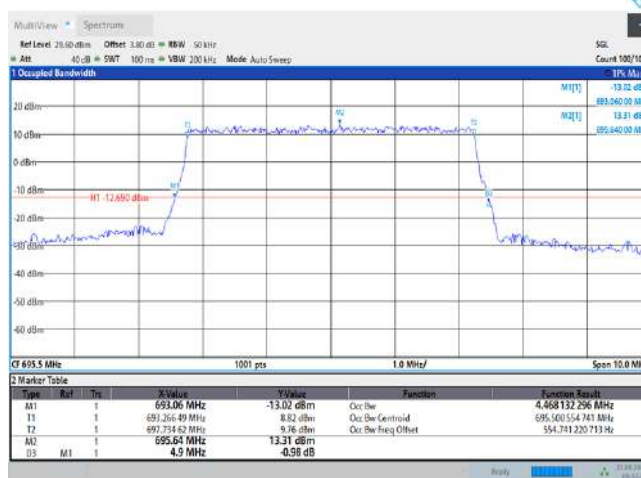
Page: 14 of 43

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



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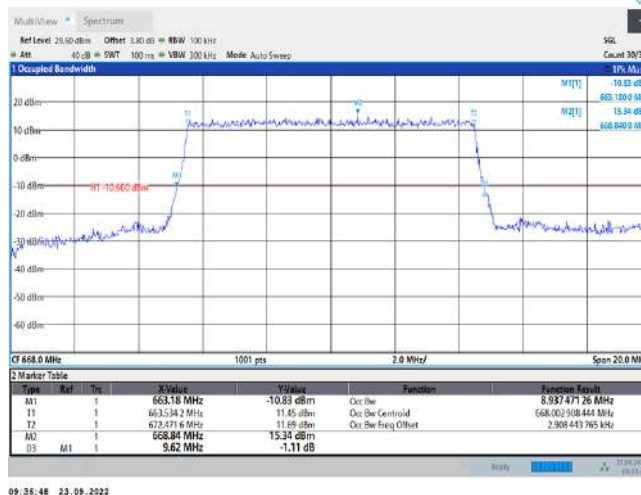
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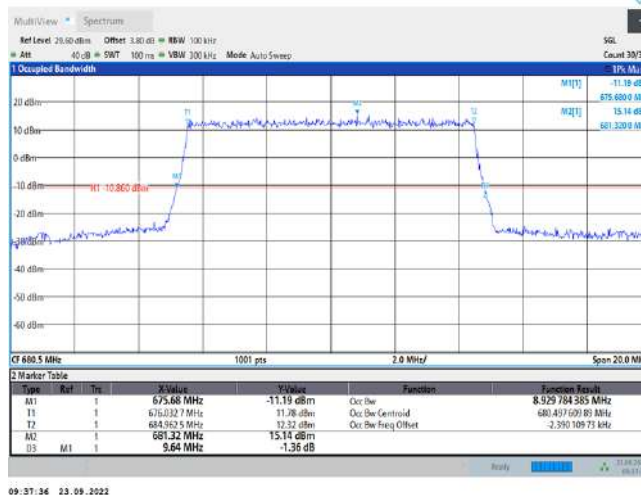
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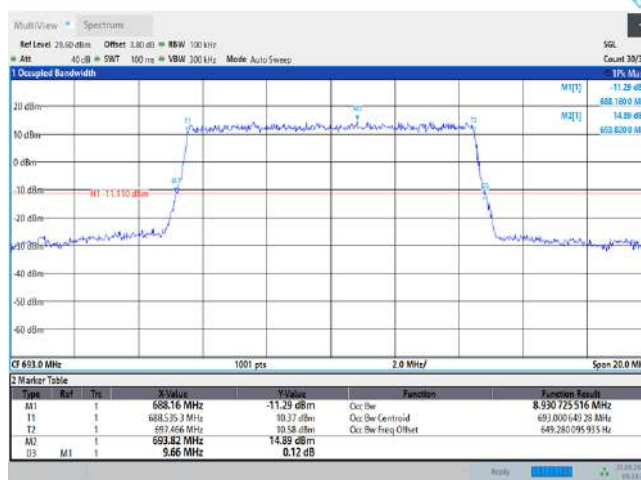
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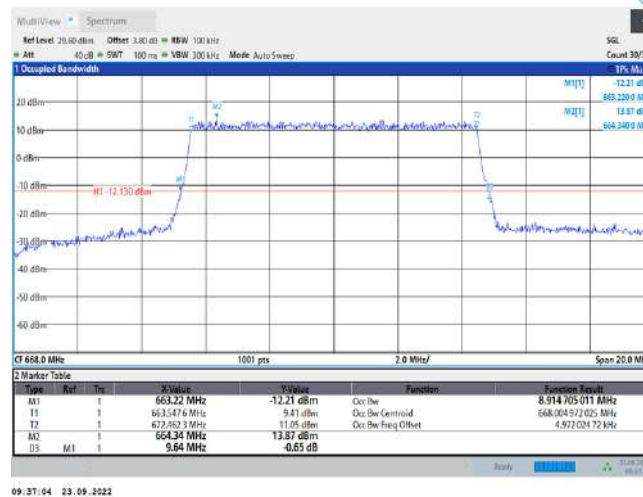
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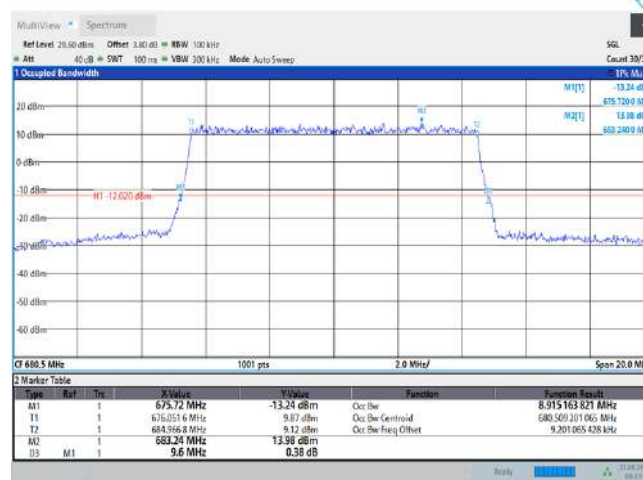
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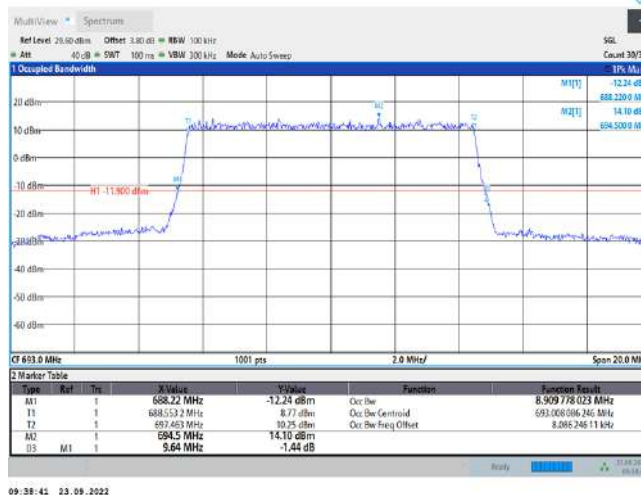
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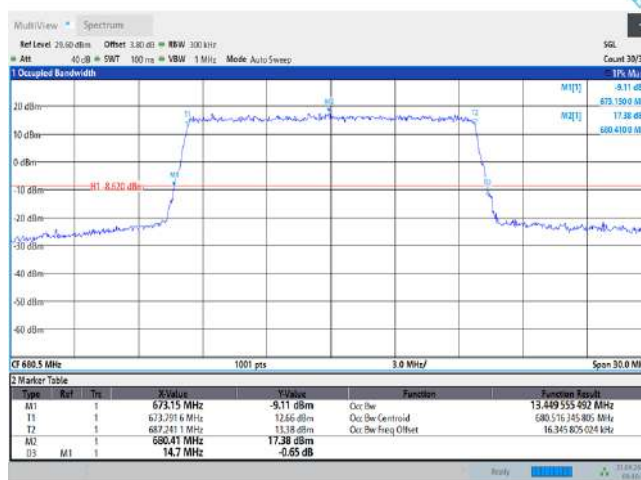
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Band71-15MHz-QPSK-133197-75RB#0



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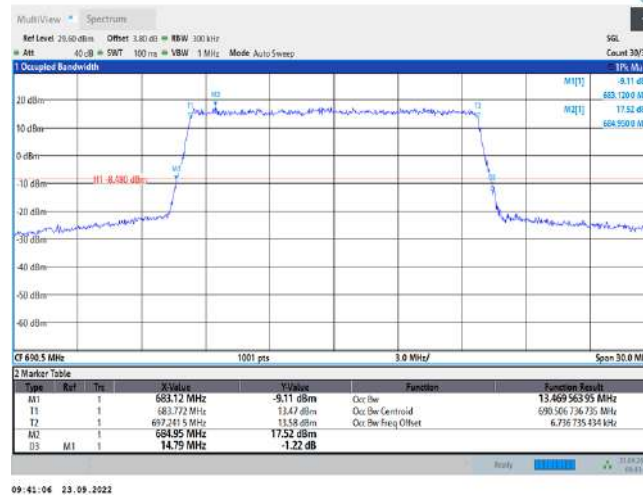
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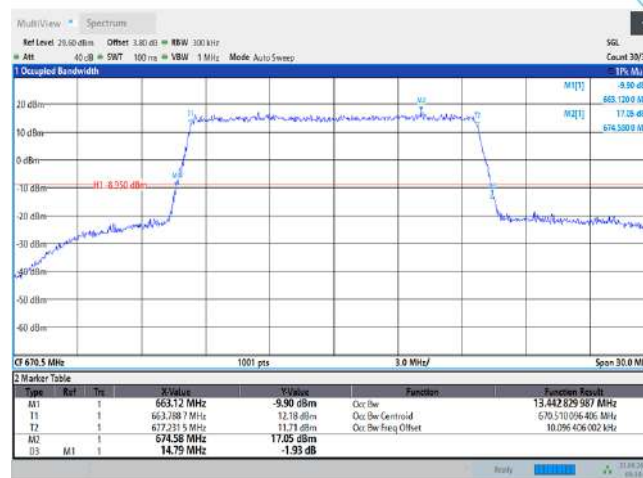
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Band71-15MHz-QPSK-133397-75RB#0



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



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Page: 21 of 43

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



09:40:33 23.09.2022

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



09:41:22 23.09.2022



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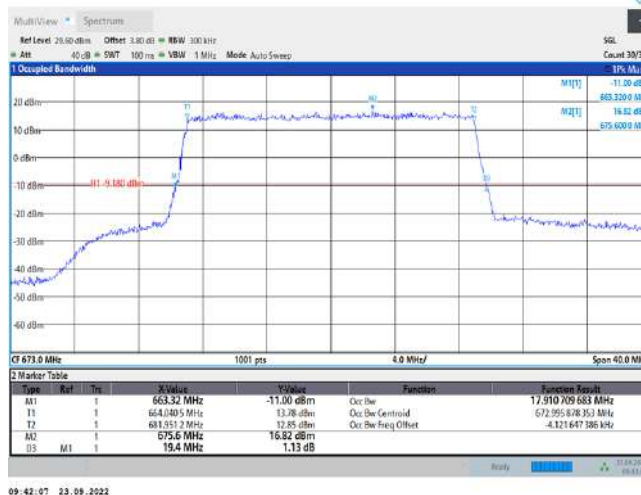
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Rev.: 01

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



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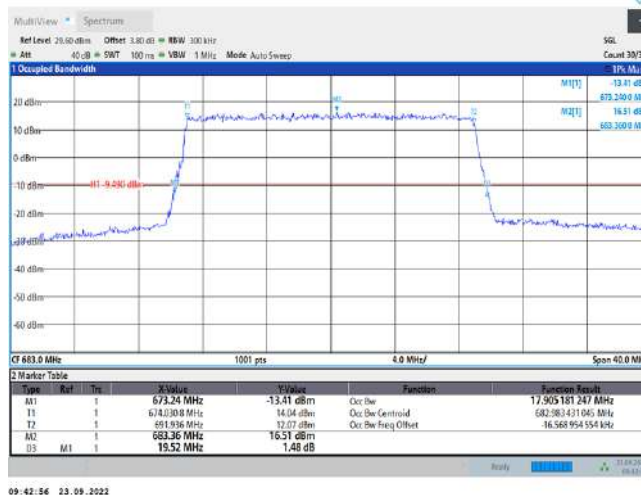
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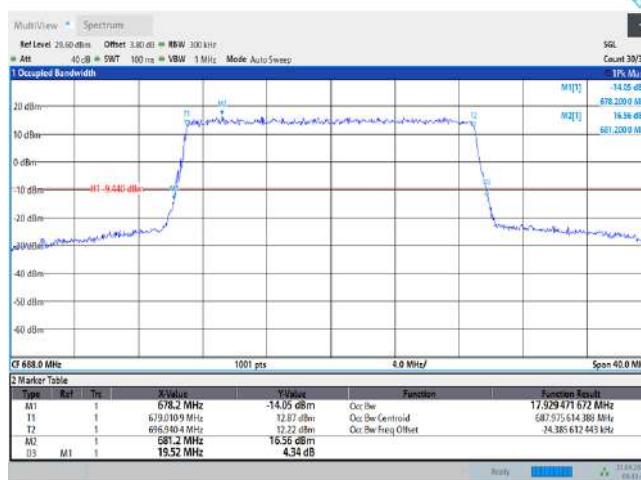
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Band71-20MHz-QPSK-133322-100RB#0



09:42:56 23.09.2022

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



09:43:44 23.09.2022



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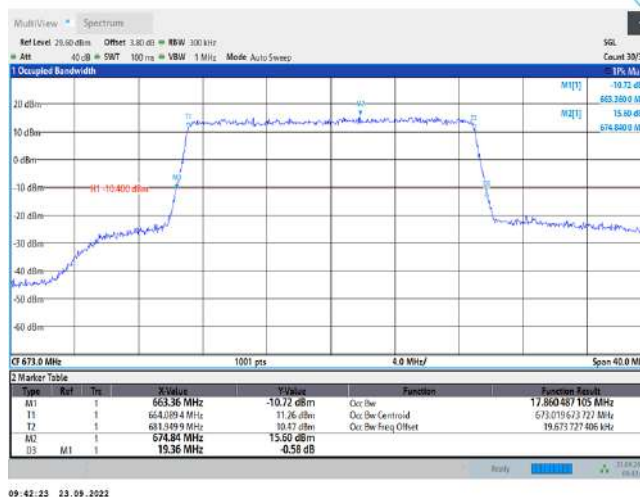
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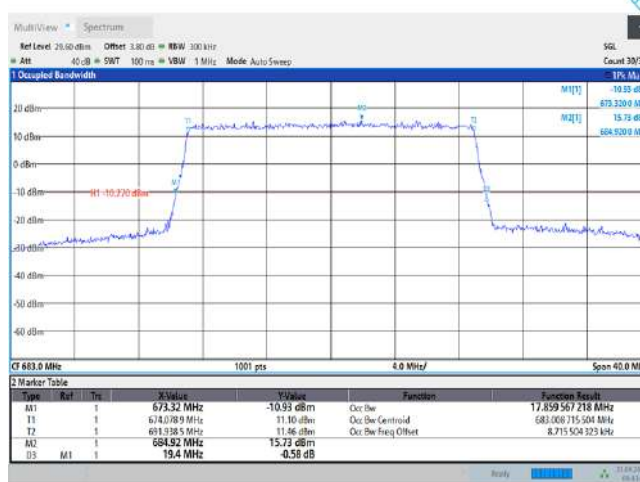
Page: 24 of 43

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



09:42:23 23.09.2022

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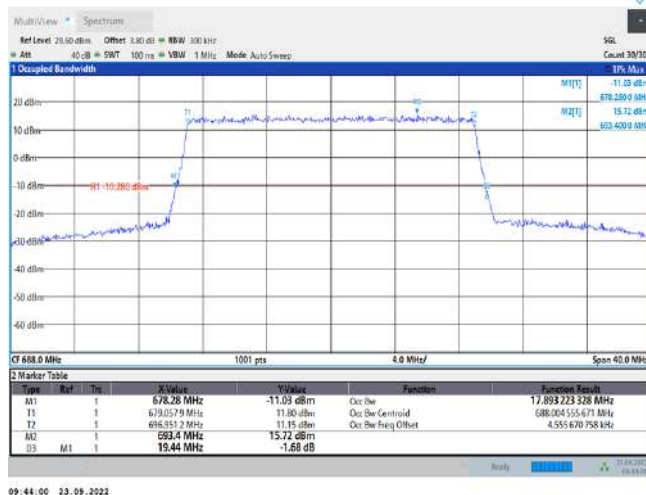
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Band71-20MHz-16QAM-133372-100RB#0



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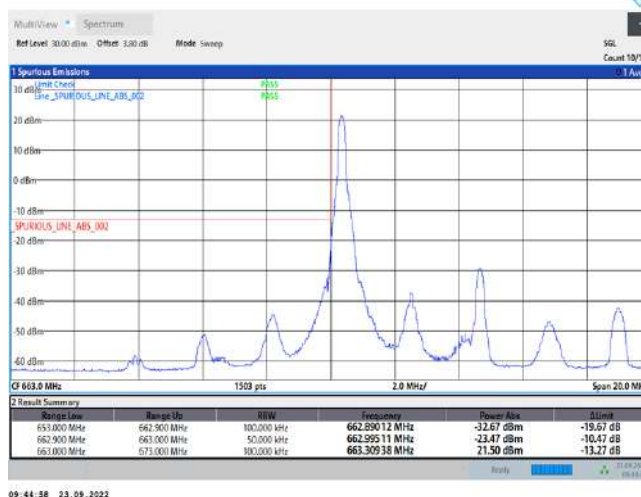
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Band Edge

Test Graphs

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



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



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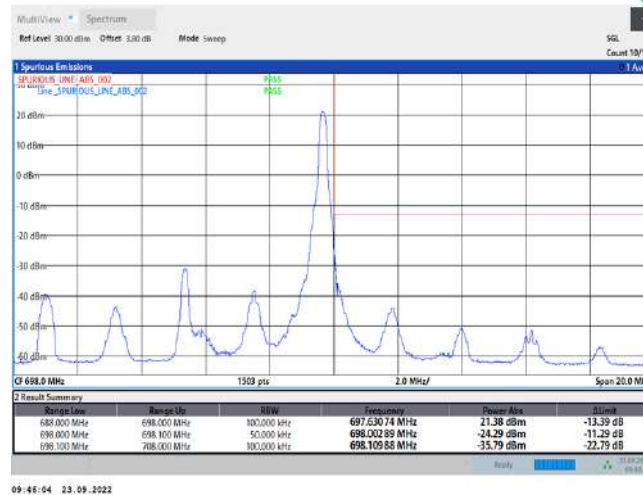
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Band71-5MHz-QPSK-133447-1RB#24



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



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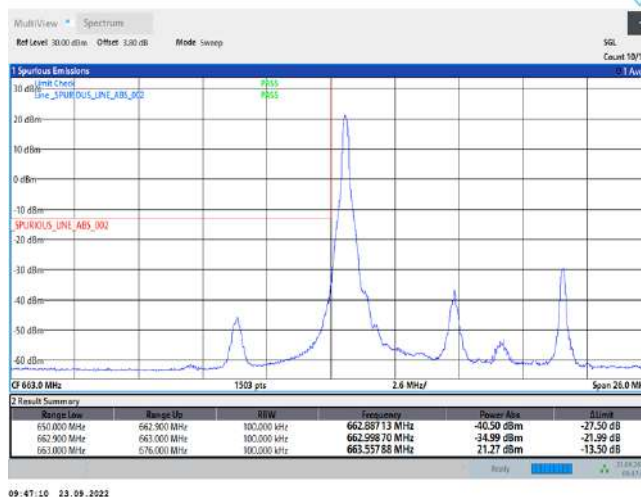
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Band71-10MHz-QPSK-133172-1RB#0



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



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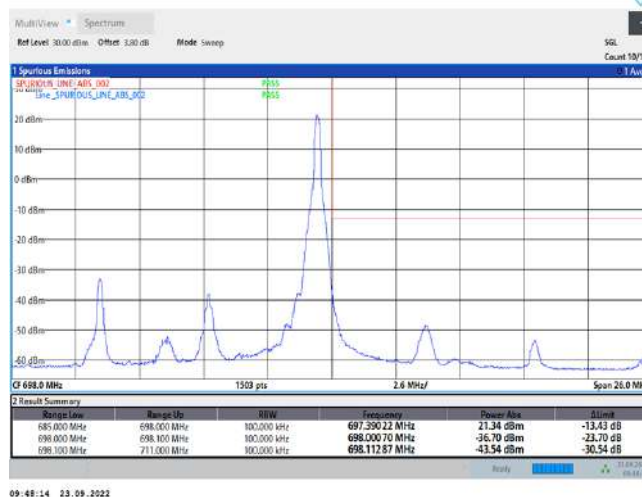
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Band71-10MHz-QPSK-133422-1RB#49



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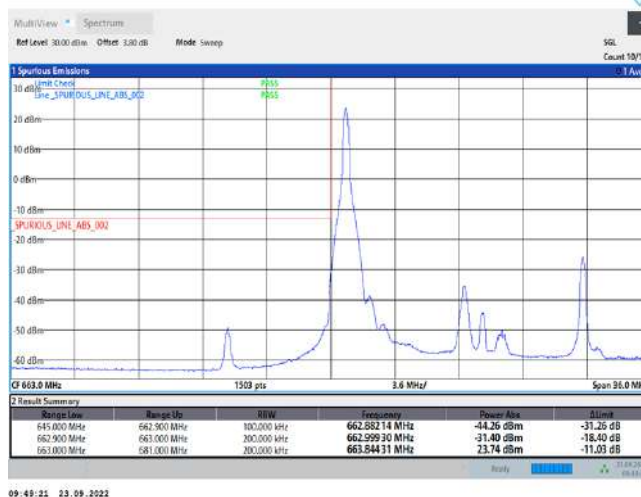
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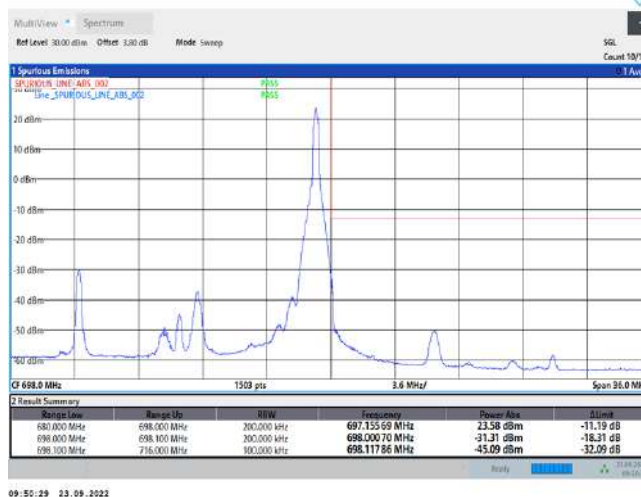
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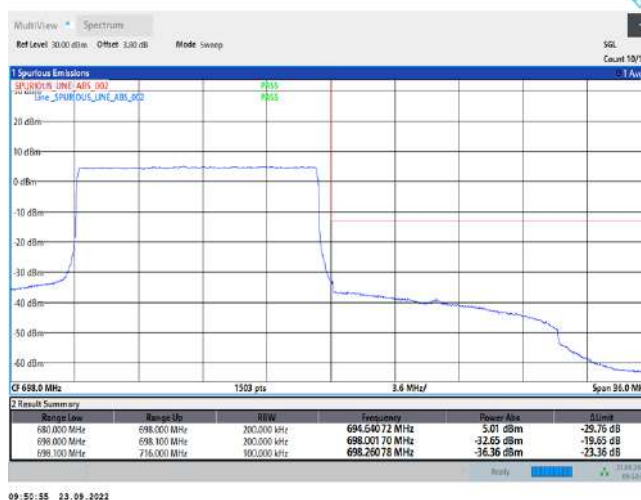
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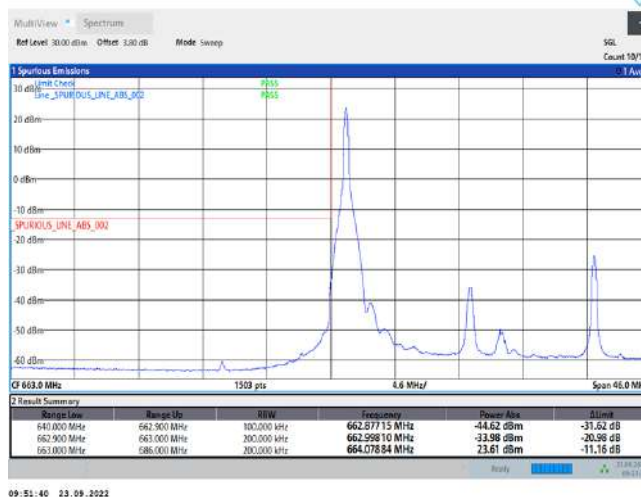
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Rev.: 01

Page: 33 of 43

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



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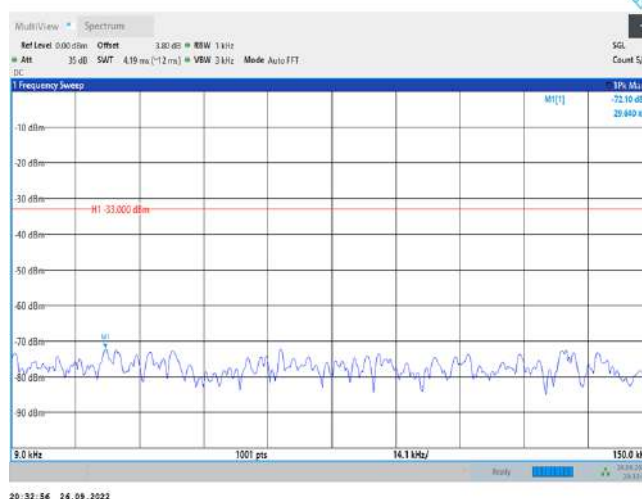
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Page: 34 of 43

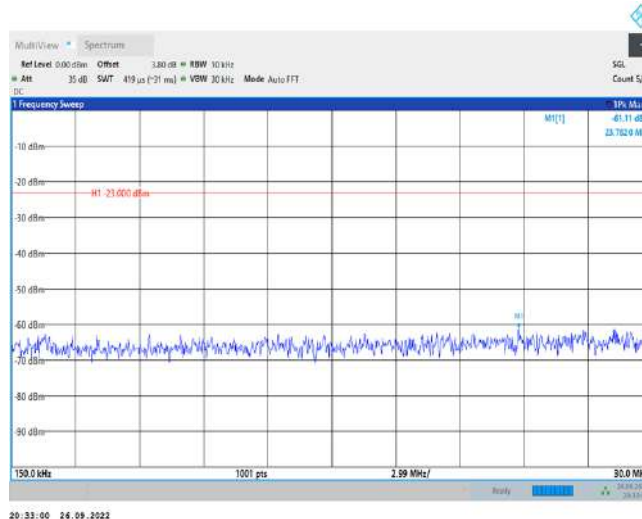
Conducted Spurious Emission

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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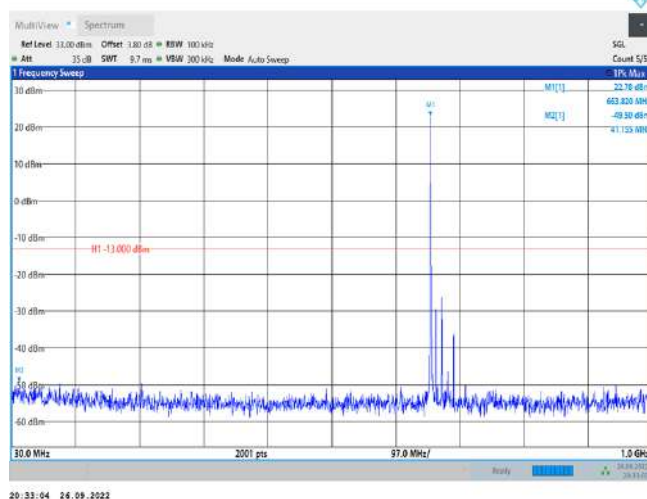
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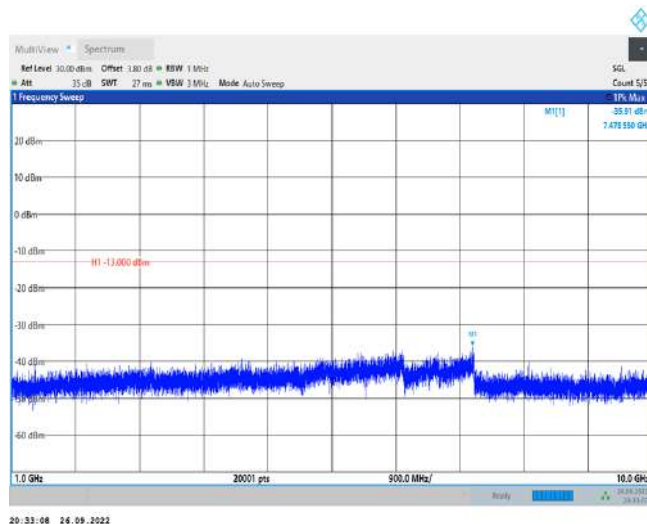
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Page: 35 of 43

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



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



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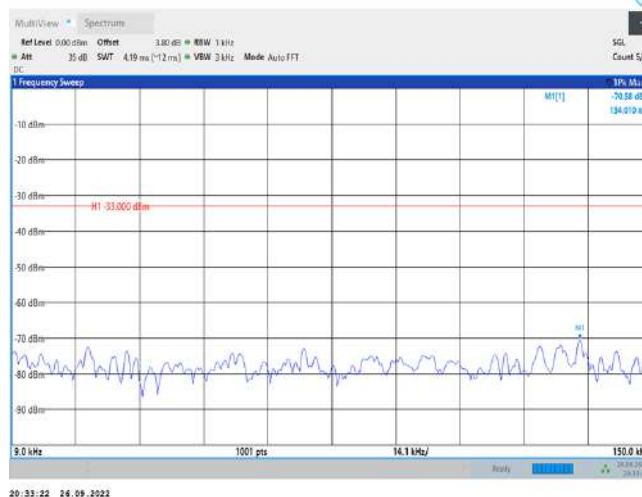
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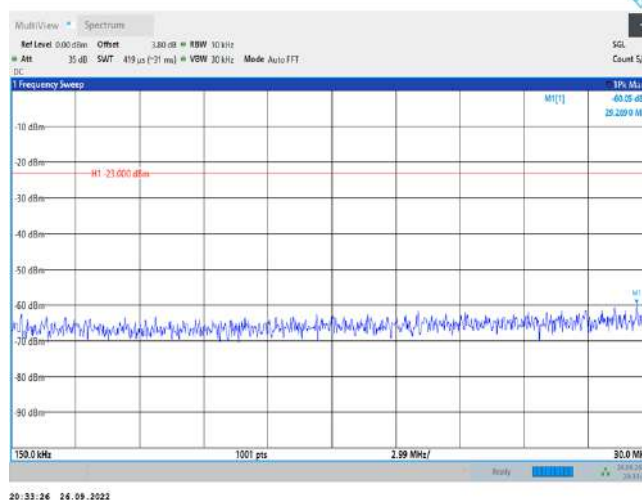
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Page: 36 of 43

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



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



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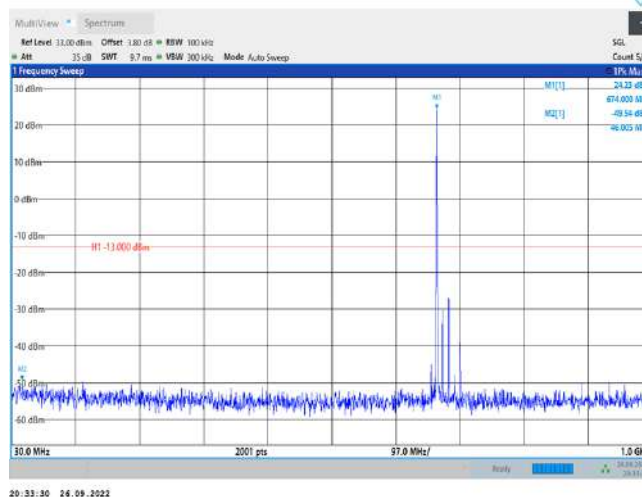
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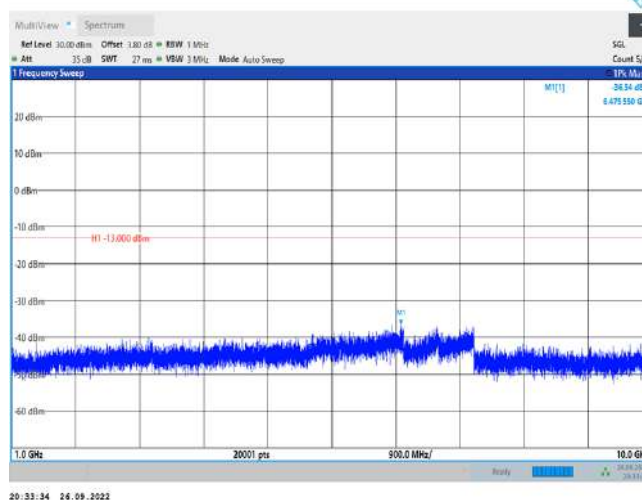
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Band71-20MHz-QPSK-133322-1RB#0-Range3:30~1000MHz



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



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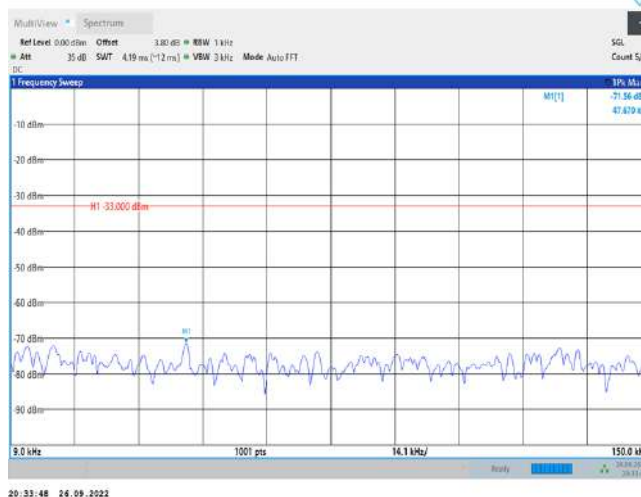
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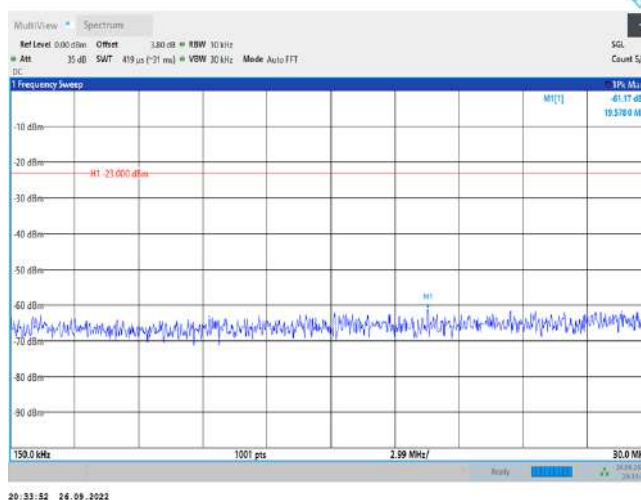
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Page: 38 of 43

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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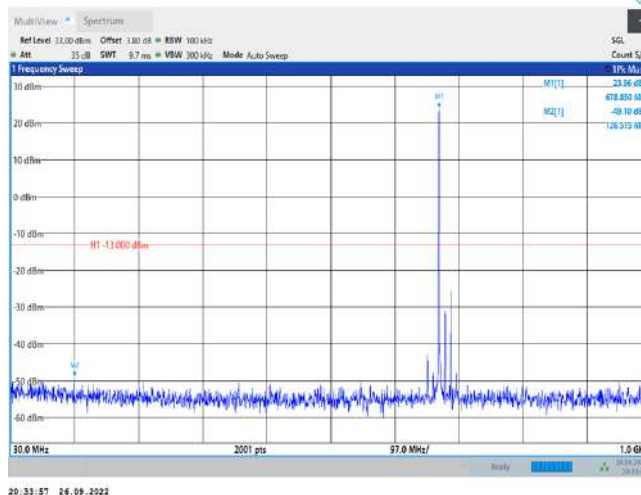
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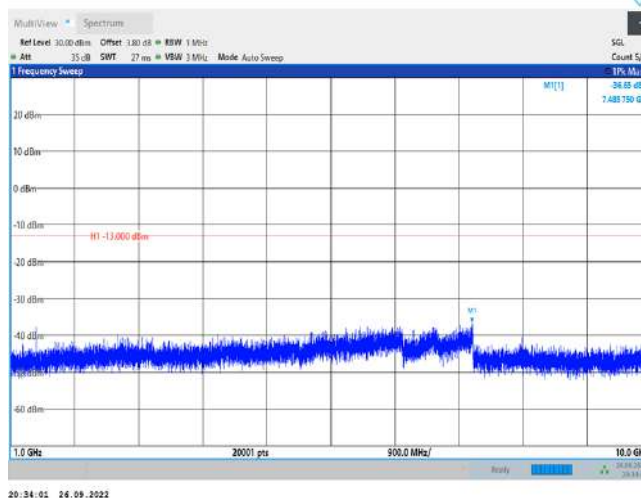
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Page: 39 of 43

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



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



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Rev.: 01

Page: 40 of 43

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]	Height [cm]	Angle [°]	Polarity
1	1328.1800	50.92	-48.09	25.61	-66.82	-13.00	53.82	254	2	Horizontal
2	1992.2700	50.09	-47.91	26.60	-66.49	-13.00	53.49	168	31	Horizontal
3	2656.3600	50.56	-47.00	28.21	-63.49	-13.00	50.49	142	203	Horizontal
4	3320.4500	49.49	-46.65	29.53	-62.89	-13.00	49.89	135	0	Horizontal
5	3984.5400	48.61	-46.20	30.76	-62.09	-13.00	49.09	129	0	Horizontal
6	4648.6300	47.13	-45.79	31.86	-62.07	-13.00	49.07	111	243	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	1328.1800	50.82	-48.09	25.61	-66.92	-13.00	53.92	289	118	Vertical
2	1992.2700	49.31	-47.91	26.60	-67.27	-13.00	54.27	145	359	Vertical
3	2656.3600	50.17	-47.00	28.21	-63.88	-13.00	50.88	163	130	Vertical
4	3320.4500	48.93	-46.65	29.53	-63.45	-13.00	50.45	251	359	Vertical
5	3984.5400	48.89	-46.20	30.76	-61.81	-13.00	48.81	145	145	Vertical
6	4648.6300	46.87	-45.79	31.86	-62.33	-13.00	49.33	136	3	Vertical



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Rev.: 01

Page: 41 of 43

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]	Height [cm]	Angle [°]	Polarity
1	1348.1800	52.14	-48.07	25.61	-65.57	-13.00	52.57	144	1	Horizontal
2	2022.2700	50.03	-47.86	26.72	-66.37	-13.00	53.37	185	95	Horizontal
3	2696.3600	49.40	-47.05	28.28	-64.62	-13.00	51.62	146	160	Horizontal
4	3370.4500	49.23	-46.58	29.47	-63.14	-13.00	50.14	192	28	Horizontal
5	4044.5400	48.18	-46.07	30.87	-62.28	-13.00	49.28	123	356	Horizontal
6	4718.6300	47.15	-45.77	32.07	-61.81	-13.00	48.81	168	0	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	1348.1800	50.72	-48.07	25.61	-66.99	-13.00	53.99	248	26	Vertical
2	2022.2700	50.24	-47.86	26.72	-66.16	-13.00	53.16	186	276	Vertical
3	2696.3600	49.89	-47.05	28.28	-64.13	-13.00	51.13	136	341	Vertical
4	3370.4500	48.84	-46.58	29.47	-63.53	-13.00	50.53	125	276	Vertical
5	4044.5400	49.71	-46.07	30.87	-60.75	-13.00	47.75	145	118	Vertical
6	4718.6300	47.49	-45.77	32.07	-61.47	-13.00	48.47	199	210	Vertical



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Rev.: 01

Page: 42 of 43

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]	Height [cm]	Angle [°]	Polarity
1	1358.1800	51.83	-48.05	25.61	-65.87	-13.00	52.87	224	1	Horizontal
2	2037.2700	51.13	-47.83	26.77	-65.19	-13.00	52.19	175	356	Horizontal
3	2716.3600	51.70	-47.03	28.32	-62.27	-13.00	49.27	145	348	Horizontal
4	3395.4500	48.72	-46.55	29.44	-63.65	-13.00	50.65	136	294	Horizontal
5	4074.5400	51.16	-45.98	30.91	-59.16	-13.00	46.16	251	189	Horizontal
6	4753.6300	47.58	-45.71	32.18	-61.22	-13.00	48.22	199	176	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	1358.1800	51.54	-48.05	25.61	-66.16	-13.00	53.16	248	360	Vertical
2	2037.2700	51.07	-47.83	26.77	-65.25	-13.00	52.25	156	351	Vertical
3	2716.3600	50.95	-47.03	28.32	-63.02	-13.00	50.02	129	184	Vertical
4	3395.4500	49.61	-46.55	29.44	-62.76	-13.00	49.76	145	132	Vertical
5	4074.5400	48.10	-45.98	30.91	-62.22	-13.00	49.22	177	80	Vertical
6	4753.6300	47.87	-45.71	32.18	-60.93	-13.00	47.93	150	132	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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Rev.: 01

Page: 43 of 43

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	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	0.50	0.000732	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-3.10	-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	-2.90	-0.004246	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	0.30	0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-1.50	-0.002196	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-3.20	-0.004685	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-2.20	-0.003221	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	2.60	0.003807	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	0.30	0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-2.60	-0.003807	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	0.30	0.000439	PASS

---End of Attachment---



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