

Report No.: SEWA2205000012RG01

Rev.: 01

Page: 1 of 42

Appendix B.14

LTE Band 71



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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 2 of 42

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	22.93	21.91	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.91	21.89	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.87	21.85	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.00	20.98	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.96	21.94	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.87	21.85	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.92	21.90	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.94	20.92	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.01	21.99	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.01	21.99	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.97	21.95	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.07	21.05	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.41	21.39	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.36	21.34	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.30	21.28	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.11	20.09	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.36	21.34	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.28	21.26	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.30	21.28	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.98	19.96	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.32	21.30	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.21	21.19	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.26	21.24	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.14	20.12	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.27	22.25	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	22.97	21.95	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.02	22.00	34.77	PASS



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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 3 of 42

Band71	10MHz	QPSK	133172	50RB#0	22.03	21.01	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.50	22.48	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.91	21.89	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.08	22.06	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.11	21.09	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.31	22.29	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.98	21.96	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.15	22.13	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.99	20.97	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.56	21.54	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.37	21.35	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.45	21.43	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.01	19.99	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.67	21.65	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.30	21.28	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.30	21.28	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.10	20.08	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.49	21.47	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.35	21.33	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.31	21.29	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.13	20.11	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.51	22.49	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.86	21.84	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.93	21.91	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.06	21.04	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.34	22.32	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.77	21.75	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.93	21.91	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.17	21.15	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.36	22.34	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.81	21.79	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.90	21.88	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.19	21.17	34.77	PASS



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Rev.: 01

Page: 4 of 42

Band71	15MHz	16QAM	133197	1RB#0	22.67	21.65	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.97	20.95	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.97	20.95	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.05	20.03	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.61	21.59	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.17	21.15	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.30	21.28	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.12	20.10	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.65	21.63	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.22	21.20	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.30	21.28	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.16	20.14	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.91	21.89	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	22.76	21.74	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.66	21.64	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.05	21.03	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.97	21.95	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.74	21.72	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.68	21.66	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.14	21.12	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.89	21.87	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.86	21.84	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.72	21.70	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.00	20.98	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.13	21.11	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.93	20.91	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.98	20.96	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.19	20.17	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.23	21.21	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.14	21.12	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.04	21.02	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	21.01	19.99	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.26	21.24	34.77	PASS



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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 5 of 42

Band71	20MHz	16QAM	133372	1RB#49	22.23	21.21	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.94	20.92	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.05	20.03	34.77	PASS



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Rev.: 01

Page: 6 of 42

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.76	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.56	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.84	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.42	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.38	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.48	13	PASS



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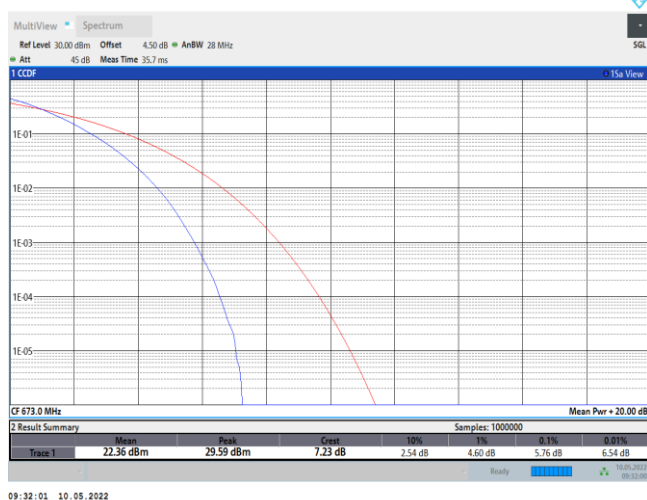
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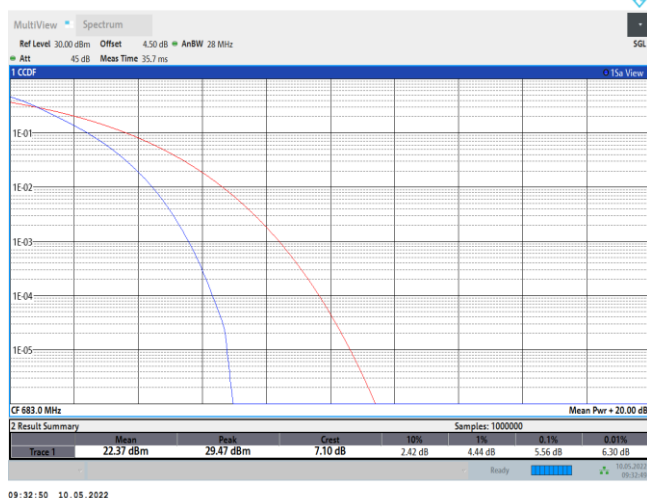
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Test Graphs

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



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



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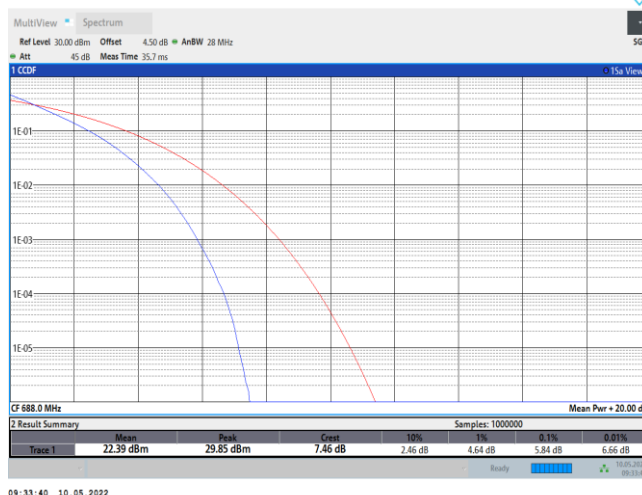
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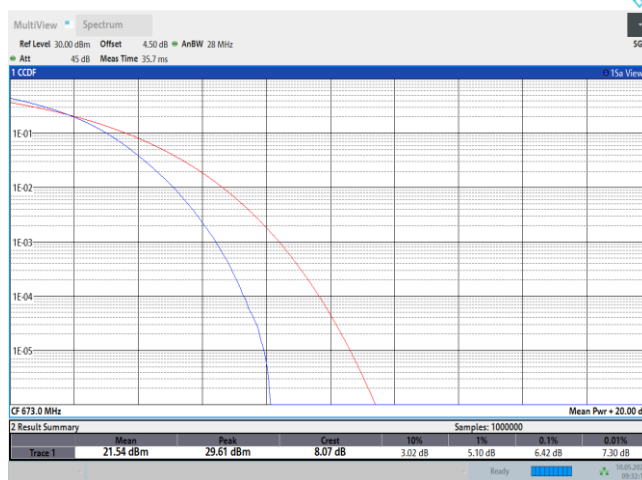
Page: 8 of 42

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



09:33:40 10.05.2022

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



09:32:17 10.05.2022



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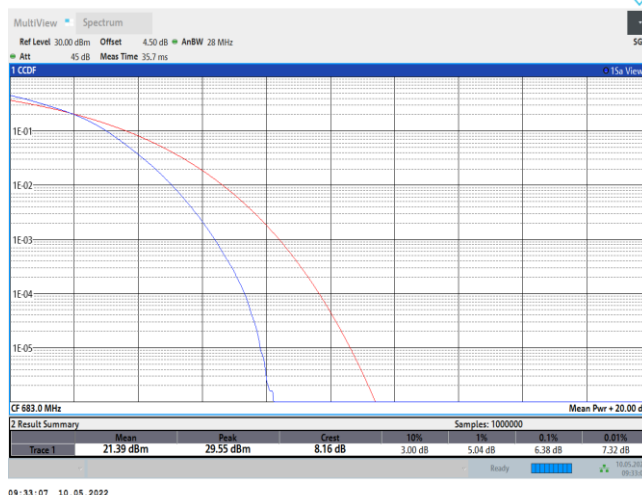
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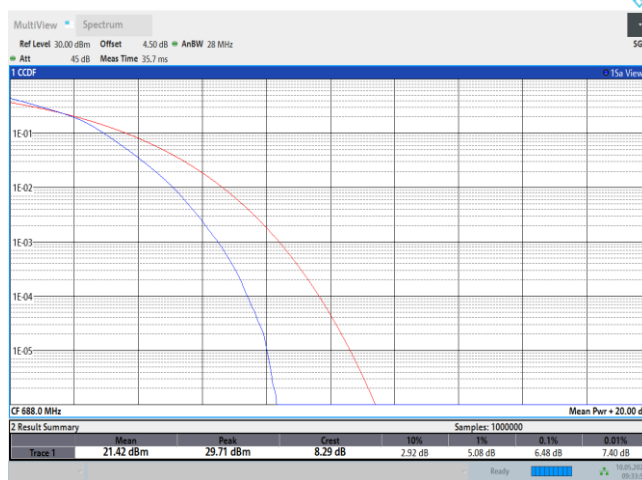
Page: 9 of 42

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



09:33:07 10.05.2022

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



09:33:57 10.05.2022



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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 10 of 42

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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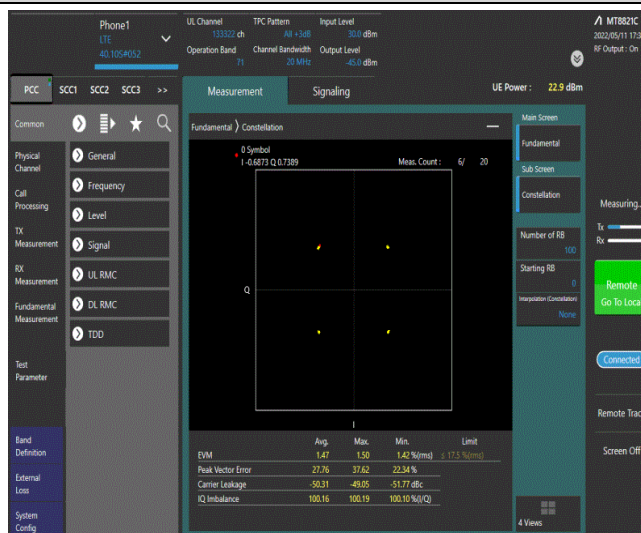
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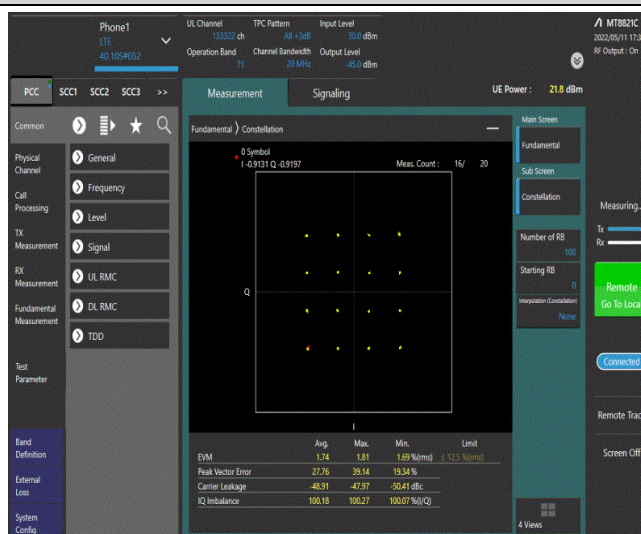
Page: 11 of 42

Test Graphs

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



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



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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 12 of 42

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	4.458	4.87	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.467	4.89	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.469	4.90	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.455	4.88	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.46	4.92	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.463	4.91	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.904	9.62	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.913	9.60	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.927	9.64	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.887	9.62	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.894	9.66	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.91	9.64	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.478	14.82	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.498	15.09	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.486	14.73	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.47	14.85	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.388	14.79	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.459	14.79	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.913	19.32	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.876	19.44	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.786	19.56	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.892	19.28	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.85	19.36	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.923	19.48	PASS



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Rev.: 01

Page: 13 of 42

Test Graphs

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



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



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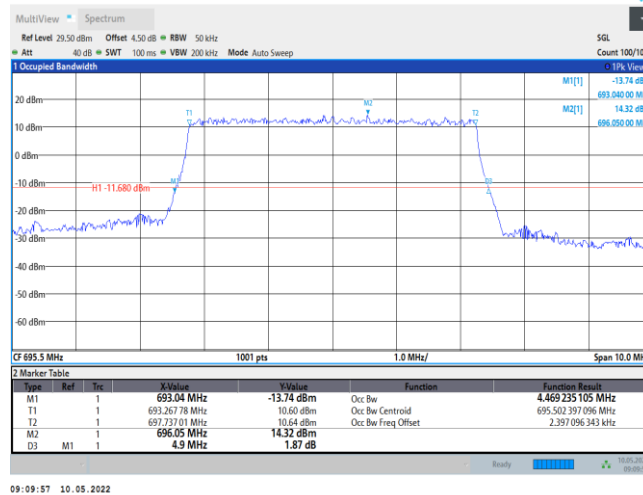
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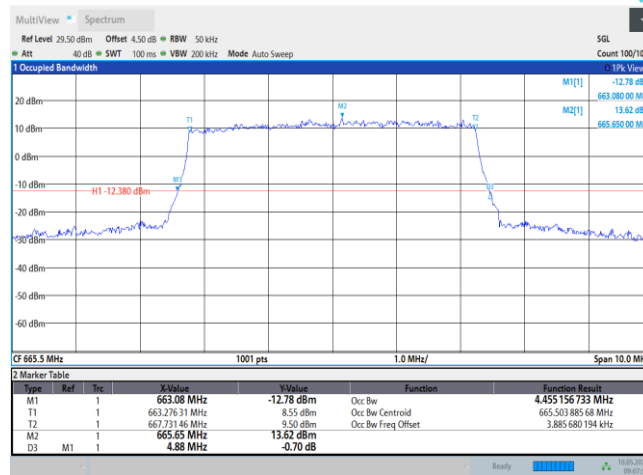
Page: 14 of 42

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



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



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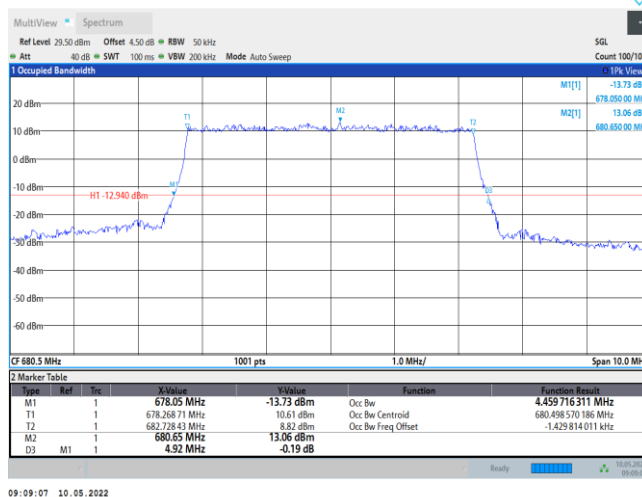
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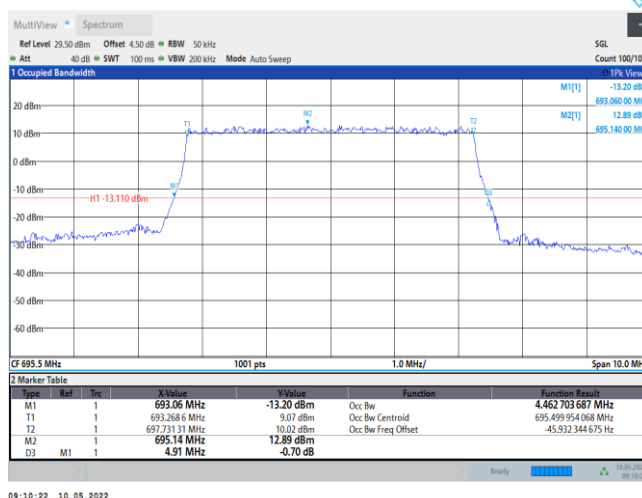
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Band71-5MHz-16QAM-133297-25RB#0



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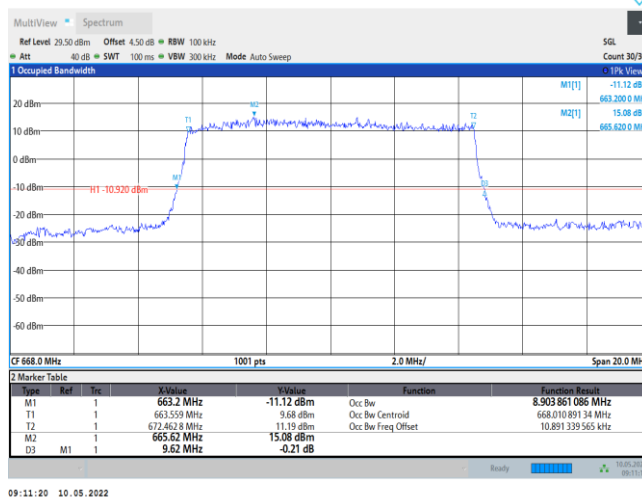
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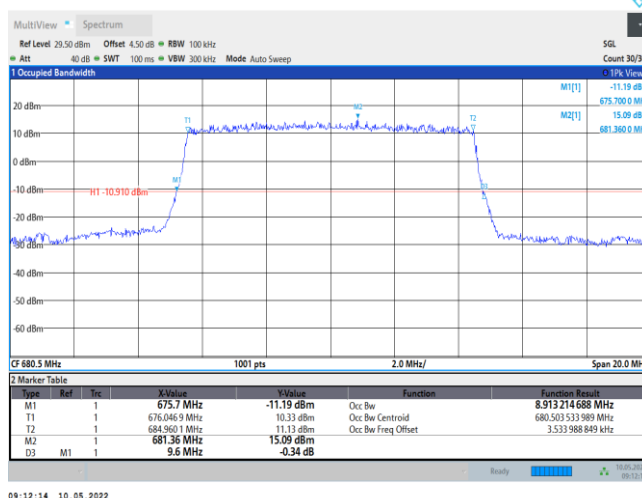
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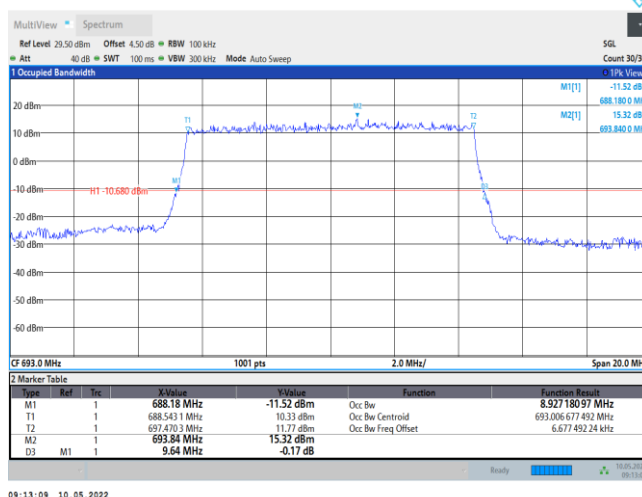
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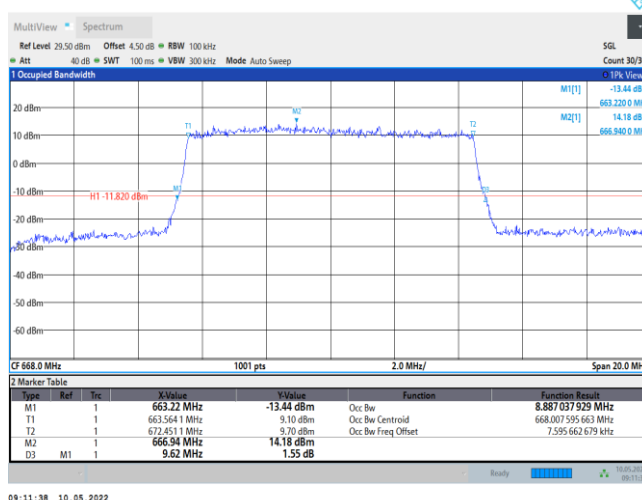
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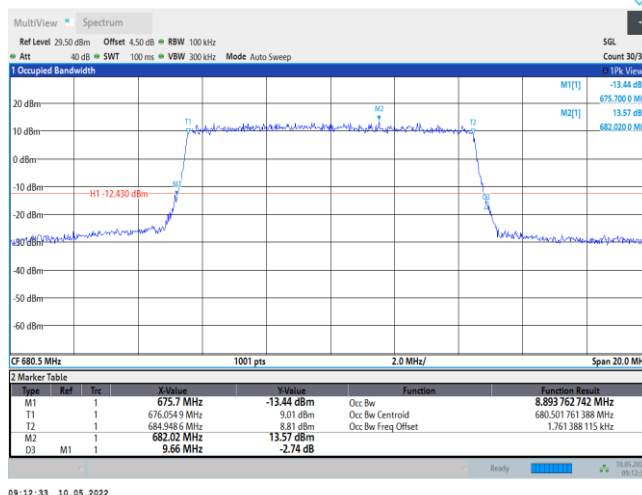
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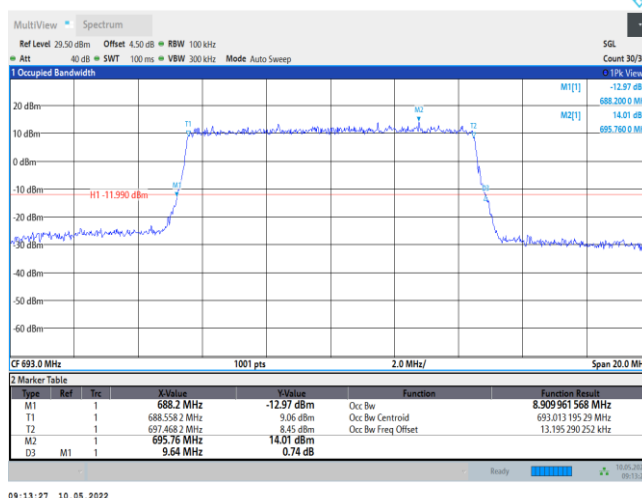
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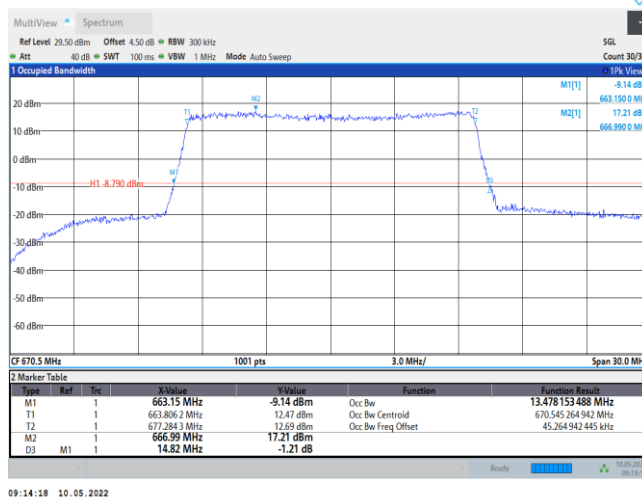
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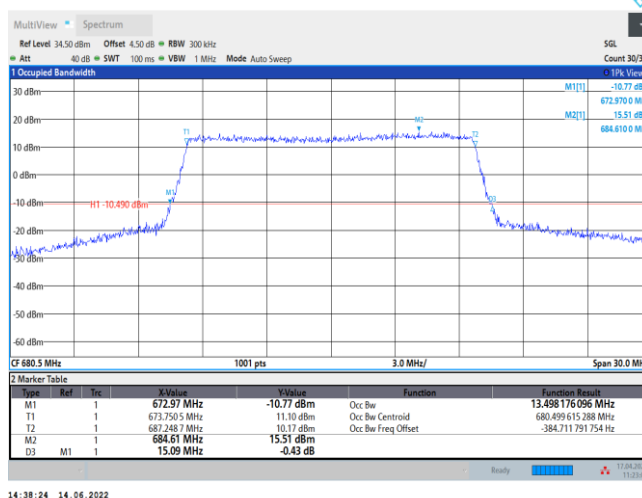
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Band71-15MHz-QPSK-133197-75RB#0



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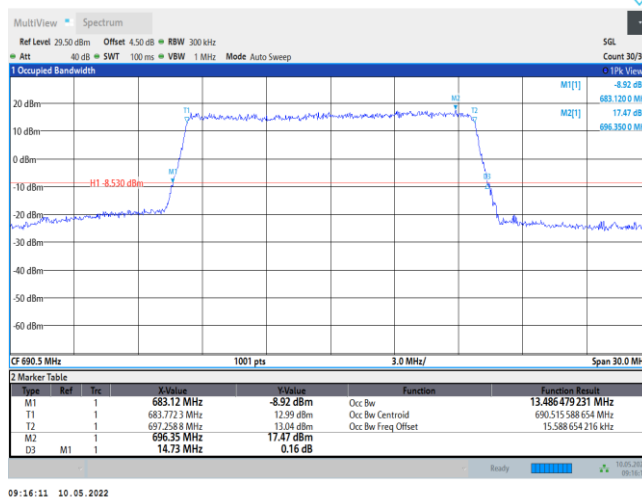
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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 20 of 42

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



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



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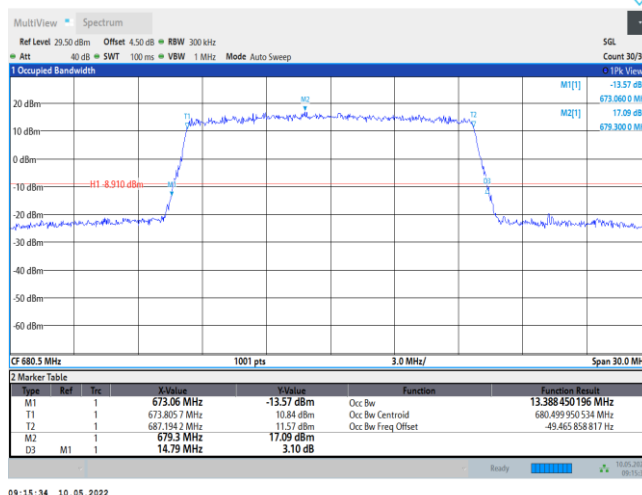
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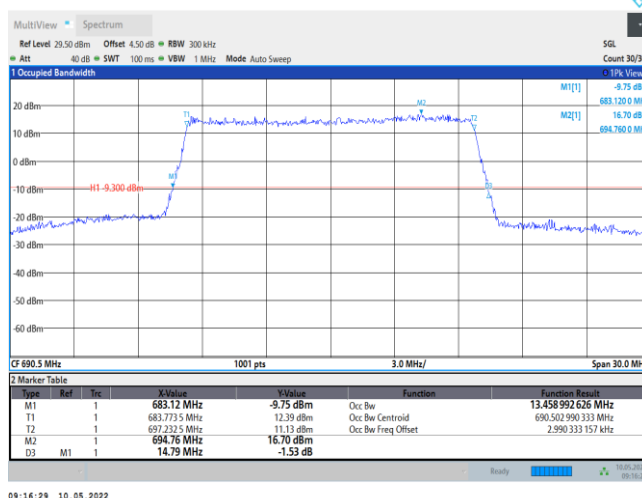
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Page: 21 of 42

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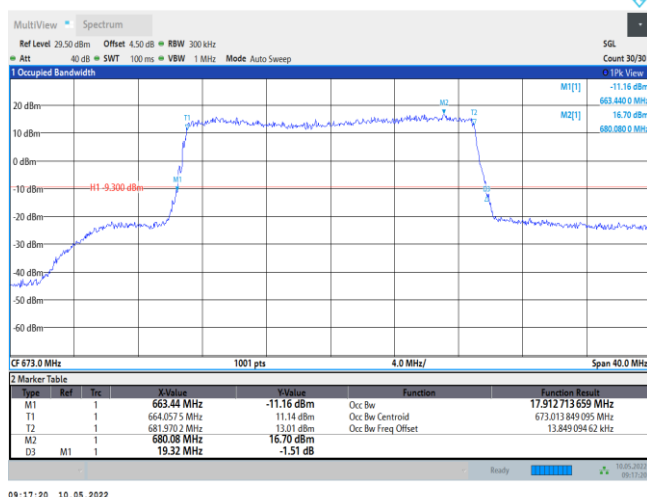
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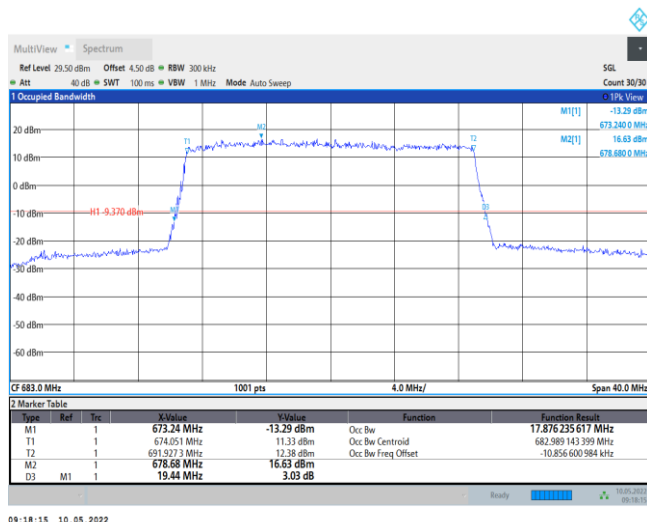
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Page: 22 of 42

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



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



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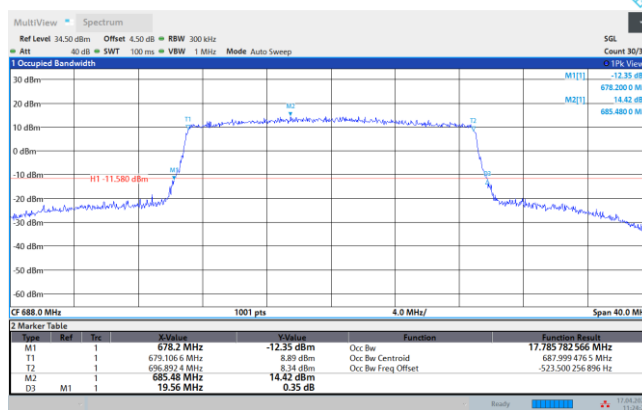
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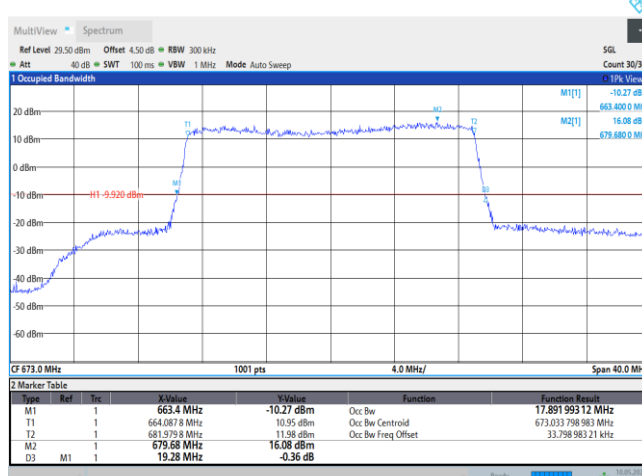
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Band71-20MHz-QPSK-133372-100RB#0



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



09:17:39 10.05.2022



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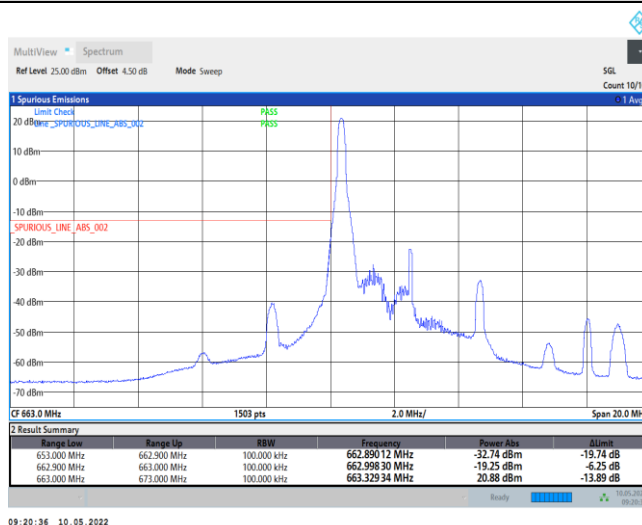
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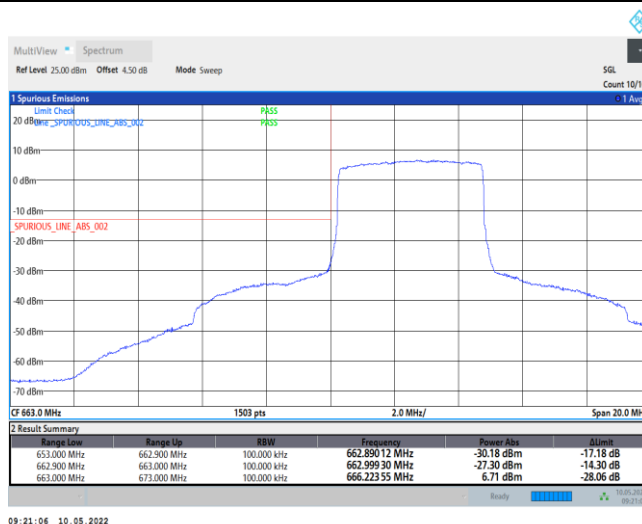
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Test Graphs

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



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



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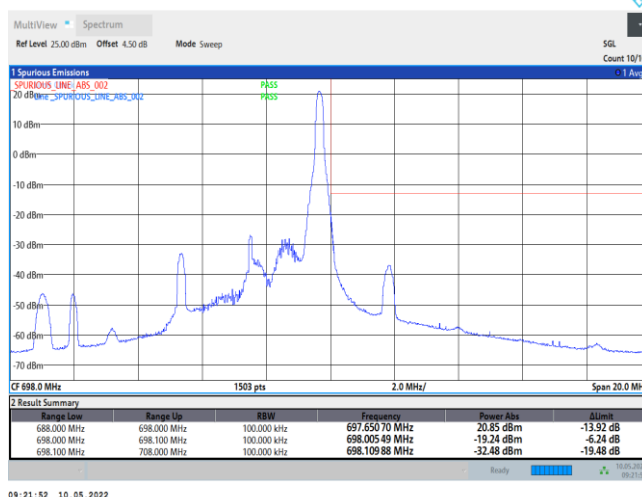
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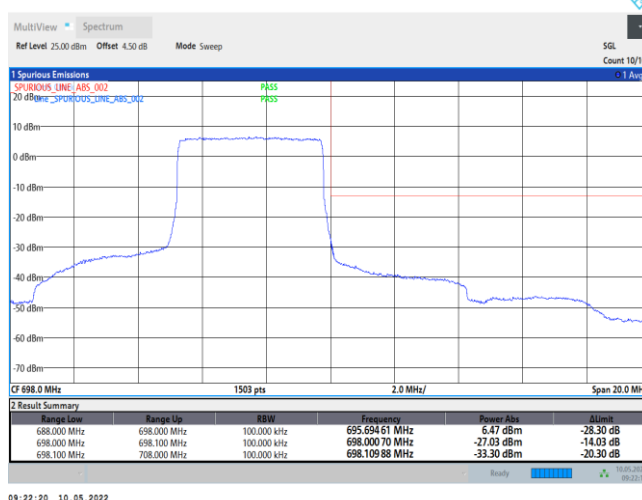
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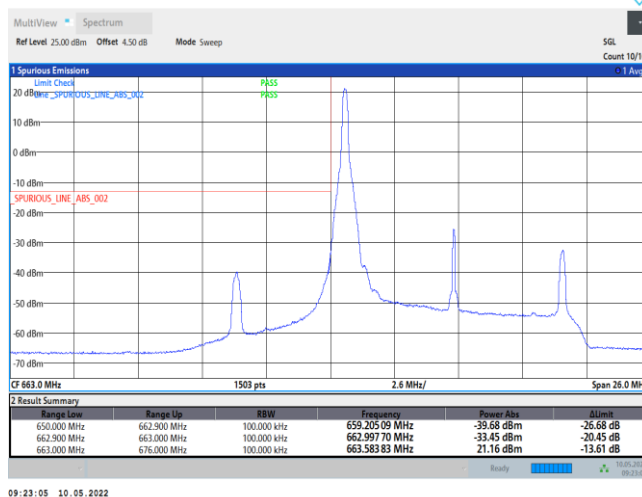
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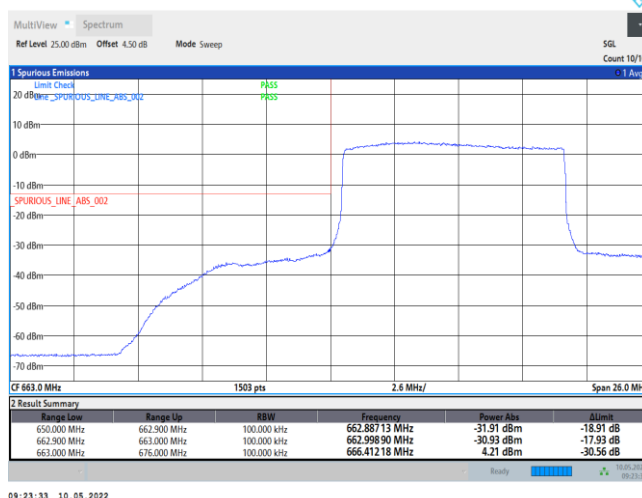
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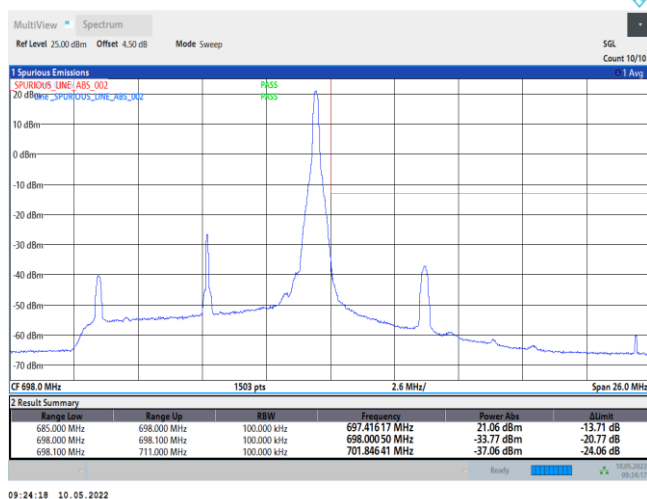
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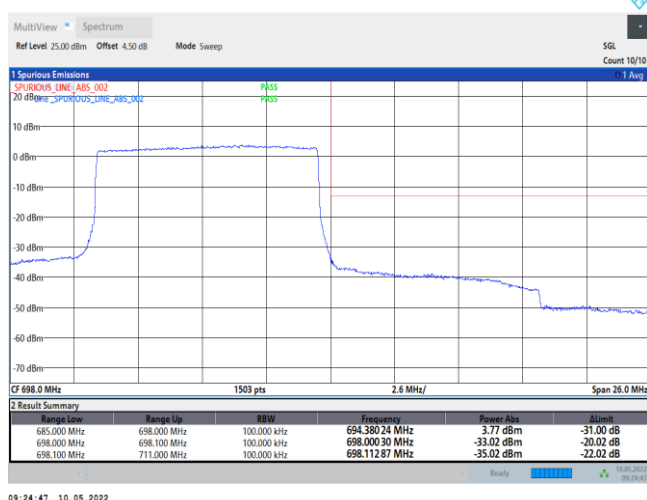
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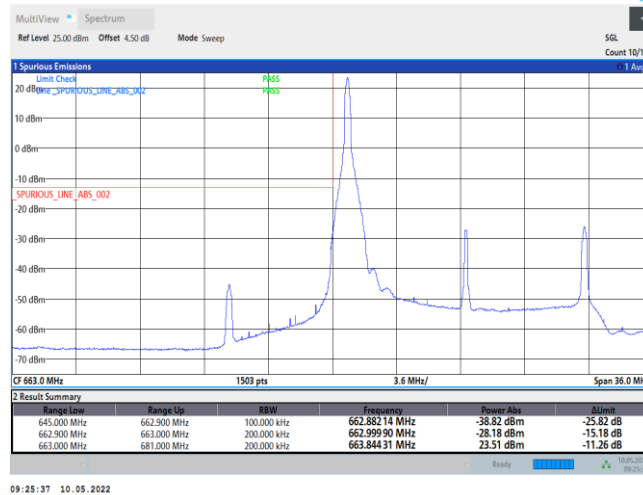
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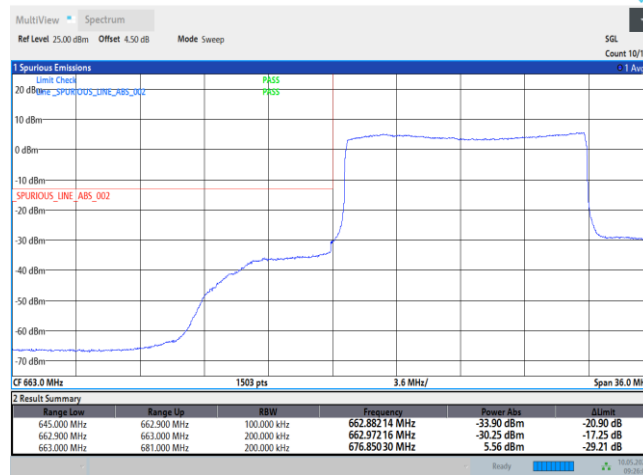
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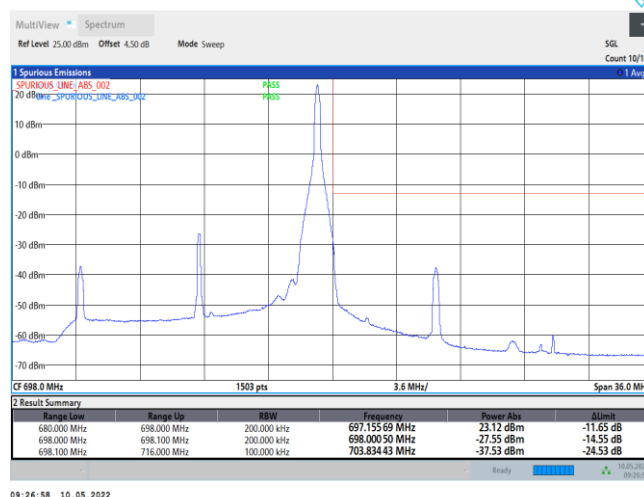
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Rev.: 01

Page: 30 of 42

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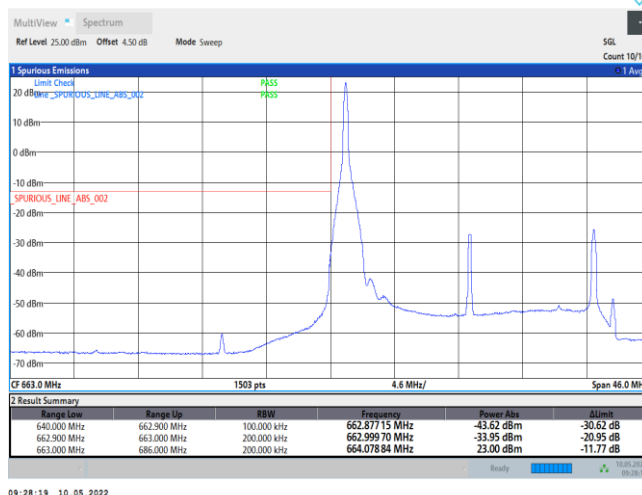
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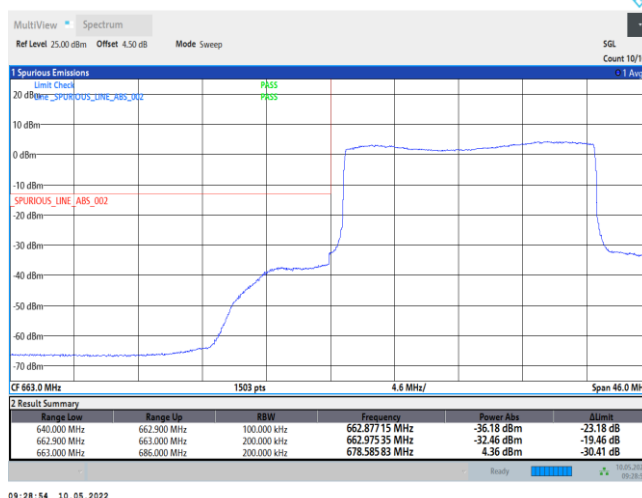
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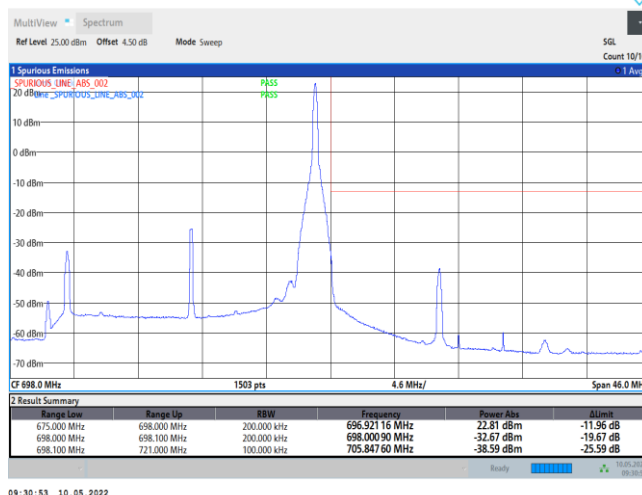
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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 32 of 42

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



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



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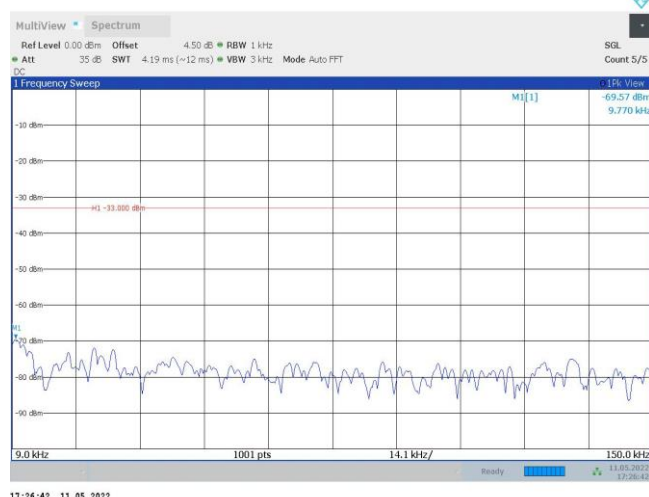
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Page: 33 of 42

Conducted Spurious Emission

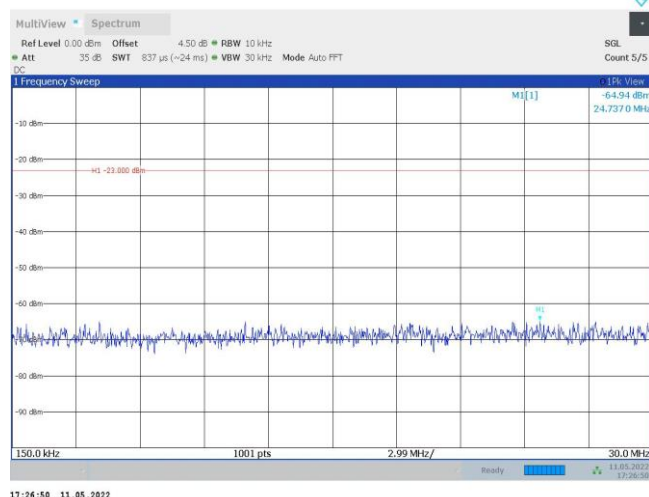
Test Graphs

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



17:24:42 11.05.2022

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



17:24:50 11.05.2022



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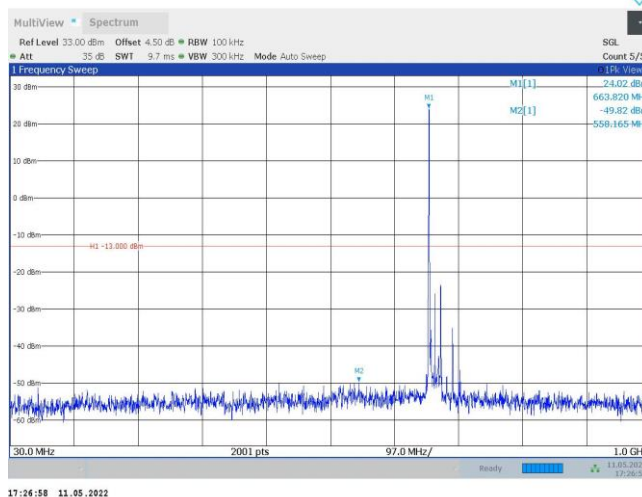
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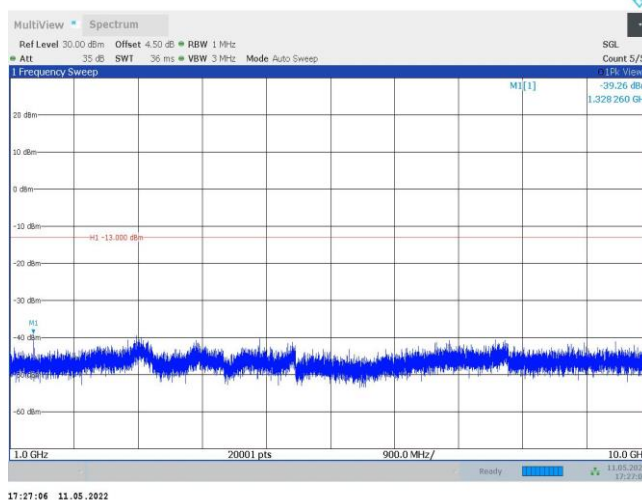
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Page: 34 of 42

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



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



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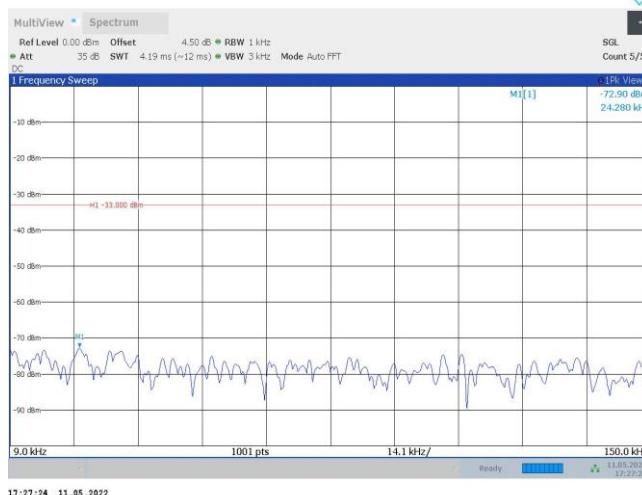
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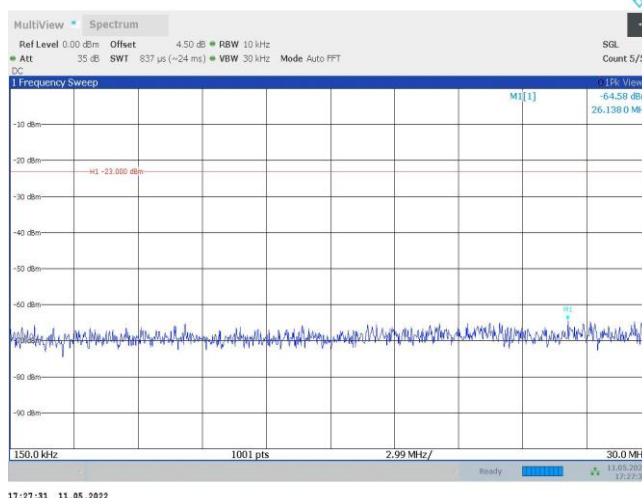
Rev.: 01

Page: 35 of 42

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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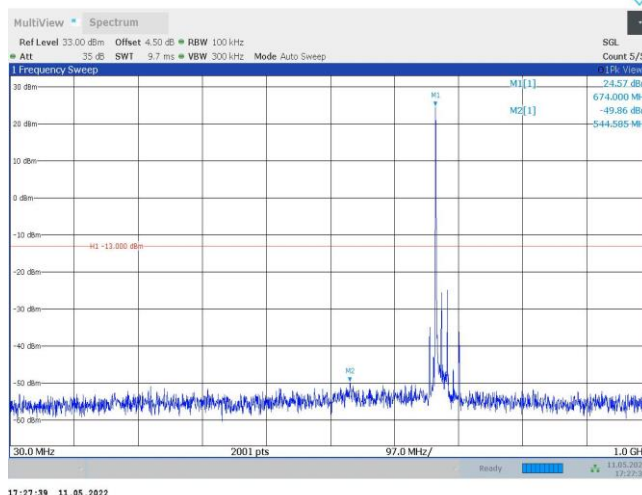
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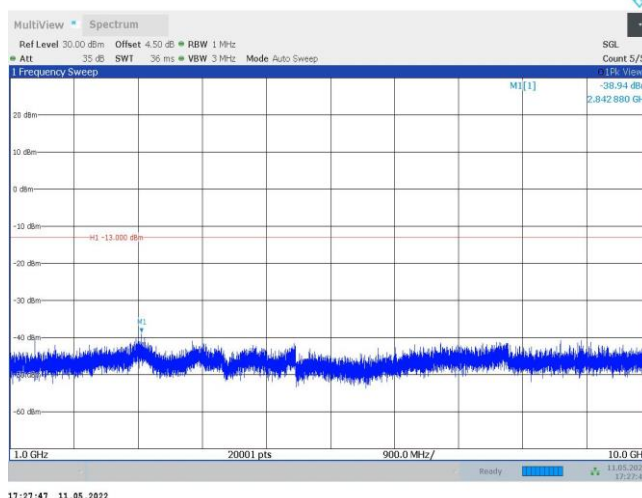
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Page: 36 of 42

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



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



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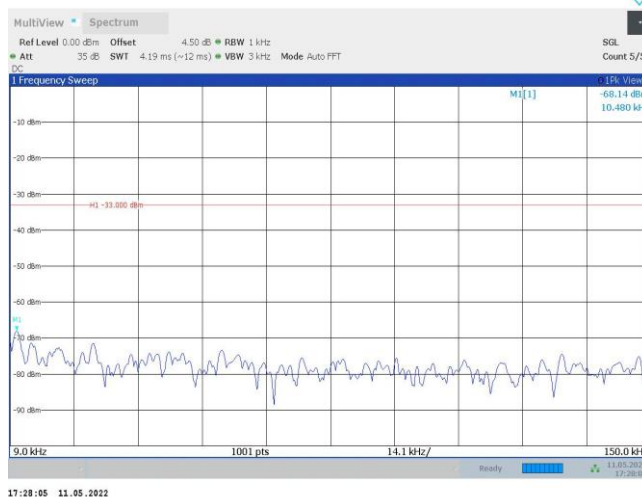
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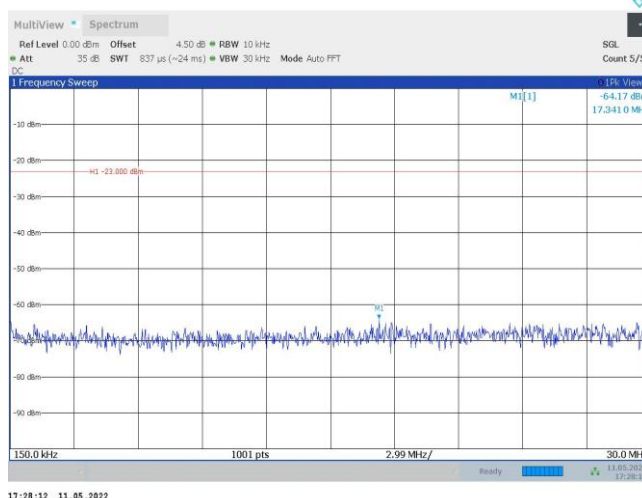
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Page: 37 of 42

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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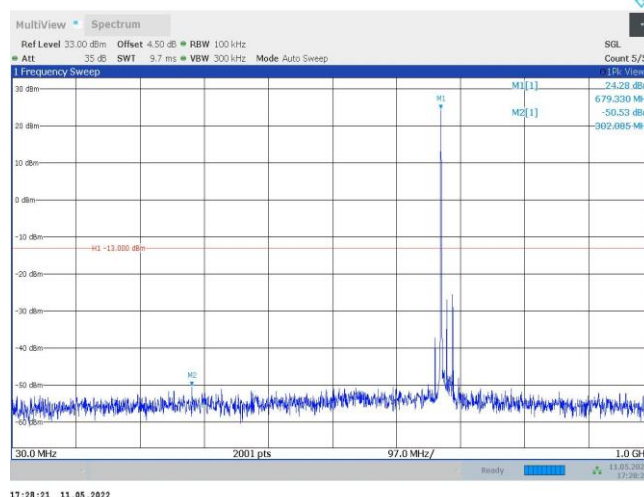
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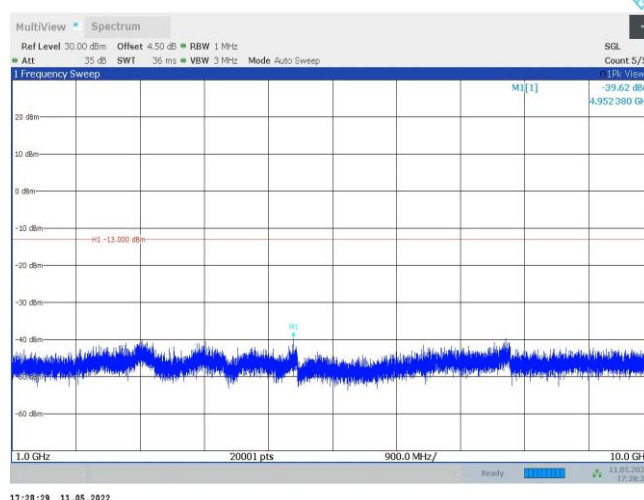
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Page: 38 of 42

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: 39 of 42

Field Strength of Spurious Radiation

Test Band = LTE Band71_ TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.1800	56.47	-117.74	-61.27	-13.00	48.27	184	214	Horizontal
2	1992.2700	55.60	-116.58	-60.98	-13.00	47.98	152	336	Horizontal
3	2656.3600	55.33	-114.05	-58.72	-13.00	45.72	236	233	Horizontal
4	3320.4500	55.05	-112.38	-57.33	-13.00	44.33	254	15	Horizontal
5	3984.5400	54.15	-110.70	-56.55	-13.00	43.55	191	146	Horizontal
6	4648.6300	53.67	-109.20	-55.53	-13.00	42.53	175	209	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.1800	54.47	-117.74	-63.27	-13.00	50.27	269	48	Vertical
2	1992.2700	55.05	-116.58	-61.53	-13.00	48.53	291	325	Vertical
3	2656.3600	55.30	-114.05	-58.75	-13.00	45.75	175	181	Vertical
4	3320.4500	53.94	-112.38	-58.44	-13.00	45.44	148	84	Vertical
5	3984.5400	53.65	-110.70	-57.05	-13.00	44.05	194	84	Vertical
6	4648.6300	53.24	-109.20	-55.96	-13.00	42.96	170	309	Vertical



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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 40 of 42

Test Band = LTE Band71_ TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1348.1800	56.16	-117.72	-61.56	-13.00	48.56	233	321	Horizontal
2	2022.2700	55.93	-116.40	-60.47	-13.00	47.47	122	225	Horizontal
3	2696.3600	54.94	-114.02	-59.08	-13.00	46.08	253	131	Horizontal
4	3370.4500	53.49	-112.37	-58.88	-13.00	45.88	263	163	Horizontal
5	4044.5400	53.20	-110.46	-57.26	-13.00	44.26	214	337	Horizontal
6	4718.6300	52.38	-108.96	-56.58	-13.00	43.58	188	115	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1348.1800	55.97	-117.72	-61.75	-13.00	48.75	155	1	Vertical
2	2022.2700	53.61	-116.40	-62.79	-13.00	49.79	162	311	Vertical
3	2696.3600	53.95	-114.02	-60.07	-13.00	47.07	140	262	Vertical
4	3370.4500	53.68	-112.37	-58.69	-13.00	45.69	197	142	Vertical
5	4044.5400	52.34	-110.46	-58.12	-13.00	45.12	182	25	Vertical
6	4718.6300	52.86	-108.96	-56.10	-13.00	43.10	173	22	Vertical



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Rev.: 01

Page: 41 of 42

Test Band = LTE Band71_ TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.1800	55.27	-117.70	-62.43	-13.00	49.43	228	358	Horizontal
2	2037.2700	56.31	-116.32	-60.01	-13.00	47.01	149	100	Horizontal
3	2716.3600	53.64	-113.97	-60.33	-13.00	47.33	181	147	Horizontal
4	3395.4500	53.19	-112.37	-59.18	-13.00	46.18	146	115	Horizontal
5	4074.5400	53.77	-110.32	-56.55	-13.00	43.55	183	360	Horizontal
6	4753.6300	52.92	-108.79	-55.87	-13.00	42.87	191	338	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.1800	55.05	-117.70	-62.65	-13.00	49.65	245	48	Vertical
2	2037.2700	55.49	-116.32	-60.83	-13.00	47.83	168	196	Vertical
3	2716.3600	54.85	-113.97	-59.12	-13.00	46.12	174	26	Vertical
4	3395.4500	53.49	-112.37	-58.88	-13.00	45.88	199	148	Vertical
5	4074.5400	52.84	-110.32	-57.48	-13.00	44.48	201	122	Vertical
6	4753.6300	51.90	-108.79	-56.89	-13.00	43.89	142	2	Vertical



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn
t (86-512) 62992980 sgs.china@sgs.com

Report No.: SEWA2205000012RG01

Rev.: 01

Page: 42 of 42

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	2.90	0.004246	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	1.40	0.002050	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	1.50	0.002196	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	1.10	0.001611	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	1.60	0.002343	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	1.50	0.002196	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	1.90	0.002782	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	2.50	0.003660	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	1.70	0.002489	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	1.80	0.002635	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	0.60	0.000878	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	0.80	0.001171	PASS

The End



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中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南面 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn

t (86-512) 62992980 sgs.china@sgs.com