



Report No.: SEWA2212000088RG01

Rev.: 01

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Appendix B.15

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	23.6	21.69	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.49	21.58	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.41	21.5	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.59	20.68	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.58	21.67	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.53	21.62	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.47	21.56	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.5	20.59	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.47	21.56	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.47	21.56	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.33	21.42	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.49	20.58	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.8	20.89	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.8	20.89	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.71	20.8	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.64	19.73	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.93	21.02	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.84	20.93	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.88	20.97	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.52	19.61	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.77	20.86	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.8	20.89	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.52	20.61	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.48	19.57	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#0	21.74	19.83	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#12	21.78	19.87	34.77	PASS
Band71	5MHz	64QAM	133147	1RB#24	21.7	19.79	34.77	PASS
Band71	5MHz	64QAM	133147	25RB#0	20.48	18.57	34.77	PASS



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Band71	5MHz	64QAM	133297	1RB#0	21.81	19.9	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#12	21.81	19.9	34.77	PASS
Band71	5MHz	64QAM	133297	1RB#24	21.74	19.83	34.77	PASS
Band71	5MHz	64QAM	133297	25RB#0	20.59	18.68	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#0	21.84	19.93	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#12	21.66	19.75	34.77	PASS
Band71	5MHz	64QAM	133447	1RB#24	21.64	19.73	34.77	PASS
Band71	5MHz	64QAM	133447	25RB#0	20.52	18.61	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.54	21.63	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.56	21.65	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.46	21.55	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.66	20.75	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.56	21.65	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.47	21.56	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.43	21.52	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.54	20.63	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.35	21.44	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.5	21.59	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.33	21.42	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.5	20.59	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	23.03	21.12	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.71	20.8	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.86	20.95	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.57	19.66	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.8	20.89	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.8	20.89	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.71	20.8	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.61	19.7	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.86	20.95	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.76	20.85	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.74	20.83	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.36	19.45	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#0	21.94	20.03	34.77	PASS



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Band71	10MHz	64QAM	133172	1RB#24	21.59	19.68	34.77	PASS
Band71	10MHz	64QAM	133172	1RB#49	21.66	19.75	34.77	PASS
Band71	10MHz	64QAM	133172	50RB#0	20.66	18.75	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#0	21.83	19.92	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#24	21.76	19.85	34.77	PASS
Band71	10MHz	64QAM	133297	1RB#49	21.9	19.99	34.77	PASS
Band71	10MHz	64QAM	133297	50RB#0	20.52	18.61	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#0	21.8	19.89	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#24	21.69	19.78	34.77	PASS
Band71	10MHz	64QAM	133422	1RB#49	21.64	19.73	34.77	PASS
Band71	10MHz	64QAM	133422	50RB#0	20.41	18.5	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.53	21.62	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.41	21.5	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.27	21.36	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.62	20.71	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.53	21.62	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.46	21.55	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.48	21.57	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.59	20.68	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.42	21.51	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.43	21.52	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.25	21.34	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	22.59	20.68	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.99	21.08	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.71	20.8	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.63	20.72	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	21.65	19.74	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.85	20.94	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.79	20.88	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.65	20.74	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	21.47	19.56	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.88	20.97	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.76	20.85	34.77	PASS



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Band71	15MHz	16QAM	133397	1RB#74	22.63	20.72	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	21.62	19.71	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#0	21.87	19.96	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#38	21.8	19.89	34.77	PASS
Band71	15MHz	64QAM	133197	1RB#74	21.68	19.77	34.77	PASS
Band71	15MHz	64QAM	133197	75RB#0	20.6	18.69	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#0	21.78	19.87	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#38	21.64	19.73	34.77	PASS
Band71	15MHz	64QAM	133297	1RB#74	21.52	19.61	34.77	PASS
Band71	15MHz	64QAM	133297	75RB#0	20.58	18.67	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#0	21.7	19.79	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#38	21.63	19.72	34.77	PASS
Band71	15MHz	64QAM	133397	1RB#74	21.66	19.75	34.77	PASS
Band71	15MHz	64QAM	133397	75RB#0	20.61	18.7	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.51	21.6	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.42	21.51	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.33	21.42	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.66	20.75	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.52	21.61	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.41	21.5	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.39	21.48	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.57	20.66	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.5	21.59	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.51	21.6	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.35	21.44	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.46	20.55	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.87	20.96	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.83	20.92	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.75	20.84	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	21.55	19.64	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.83	20.92	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.72	20.81	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.69	20.78	34.77	PASS



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Band71	20MHz	16QAM	133322	100RB#0	21.54	19.63	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.87	20.96	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.67	20.76	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.61	20.7	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.44	19.53	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#0	21.81	19.9	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#49	21.63	19.72	34.77	PASS
Band71	20MHz	64QAM	133222	1RB#99	21.56	19.65	34.77	PASS
Band71	20MHz	64QAM	133222	100RB#0	20.67	18.76	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#0	21.69	19.78	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#49	21.64	19.73	34.77	PASS
Band71	20MHz	64QAM	133322	1RB#99	21.38	19.47	34.77	PASS
Band71	20MHz	64QAM	133322	100RB#0	20.61	18.7	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#0	21.7	19.79	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#49	21.39	19.48	34.77	PASS
Band71	20MHz	64QAM	133372	1RB#99	21.56	19.65	34.77	PASS
Band71	20MHz	64QAM	133372	100RB#0	20.49	18.58	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

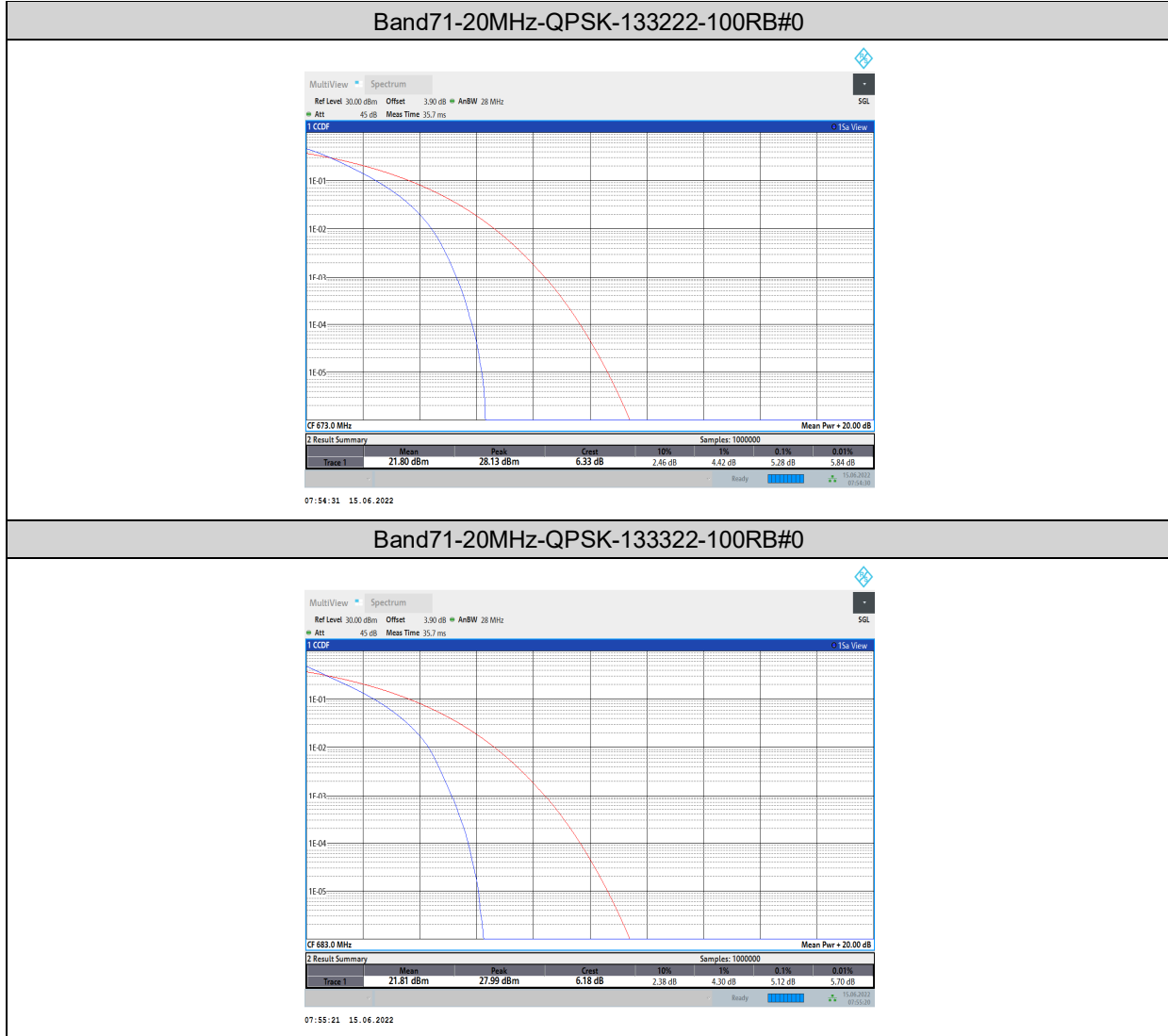
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.28	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.12	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.24	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.08	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.98	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.00	13	PASS
Band71	20MHz	64QAM	133222	100RB#0	6.56	13	PASS
Band71	20MHz	64QAM	133322	100RB#0	6.54	13	PASS
Band71	20MHz	64QAM	133372	100RB#0	6.58	13	PASS



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Test Graphs



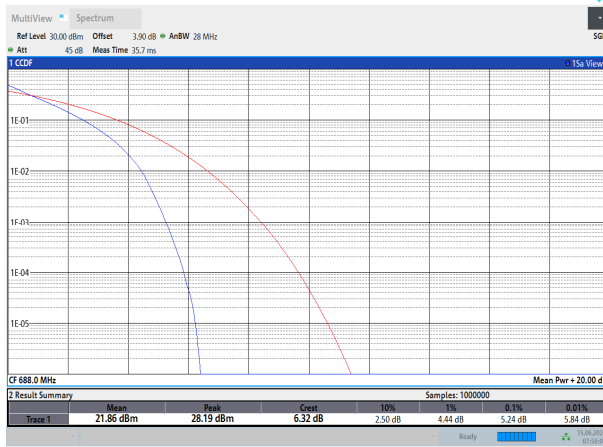
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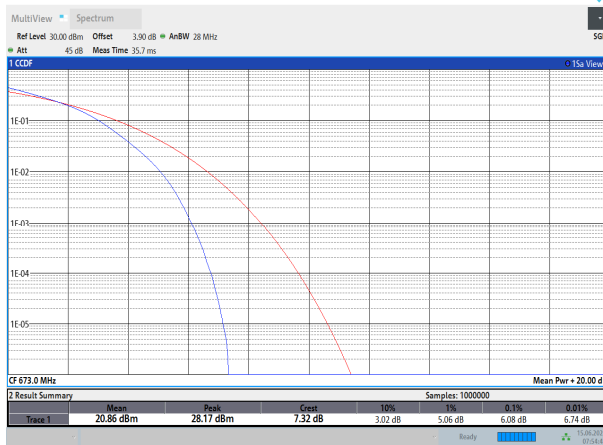


Band71-20MHz-QPSK-133372-100RB#0



07:56:10 15.06.2022

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



07:54:48 15.06.2022

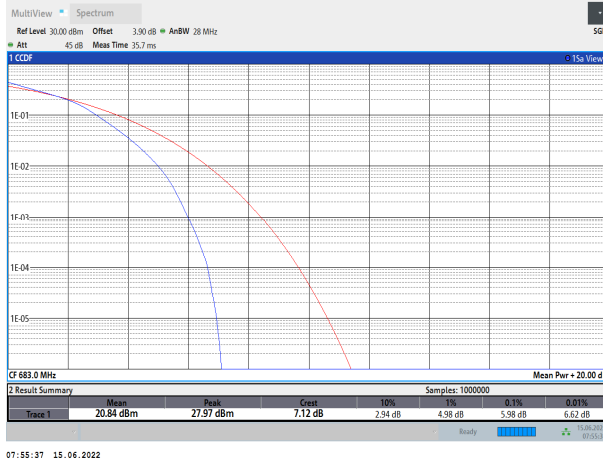


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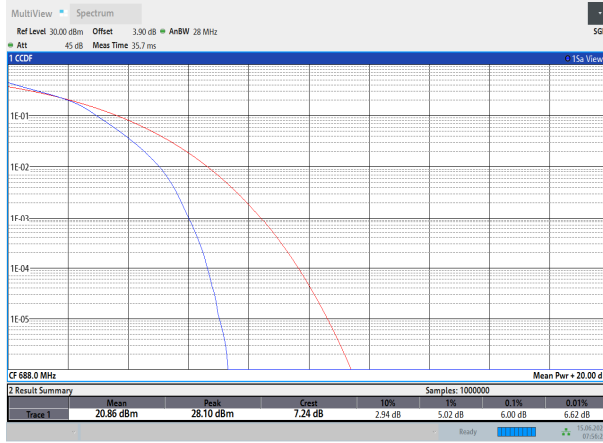
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Band71-20MHz-16QAM-133322-100RB#0



07:55:37 15.06.2022

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



07:56:26 15.06.2022

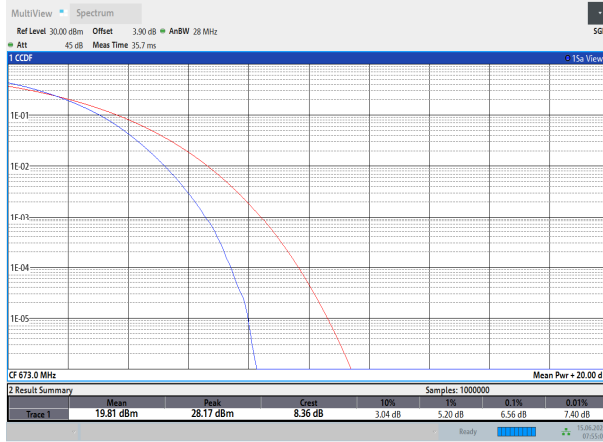


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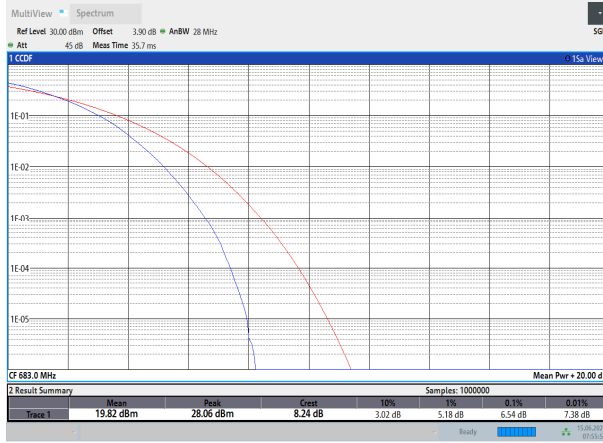
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Band71-20MHz-64QAM-133222-100RB#0



Band71-20MHz-64QAM-133322-100RB#0



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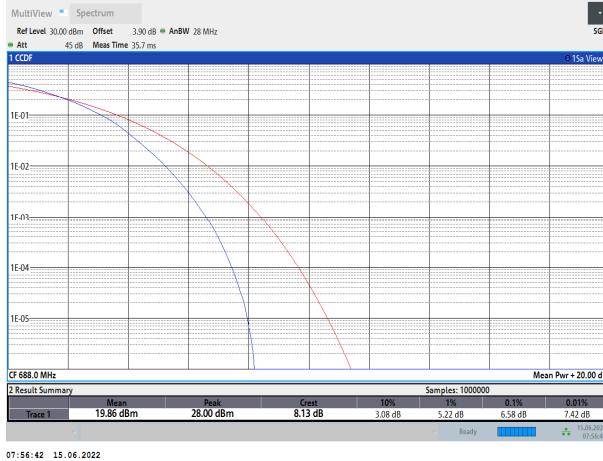


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Band71-20MHz-64QAM-133372-100RB#0



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Modulation Characteristics

Test Result

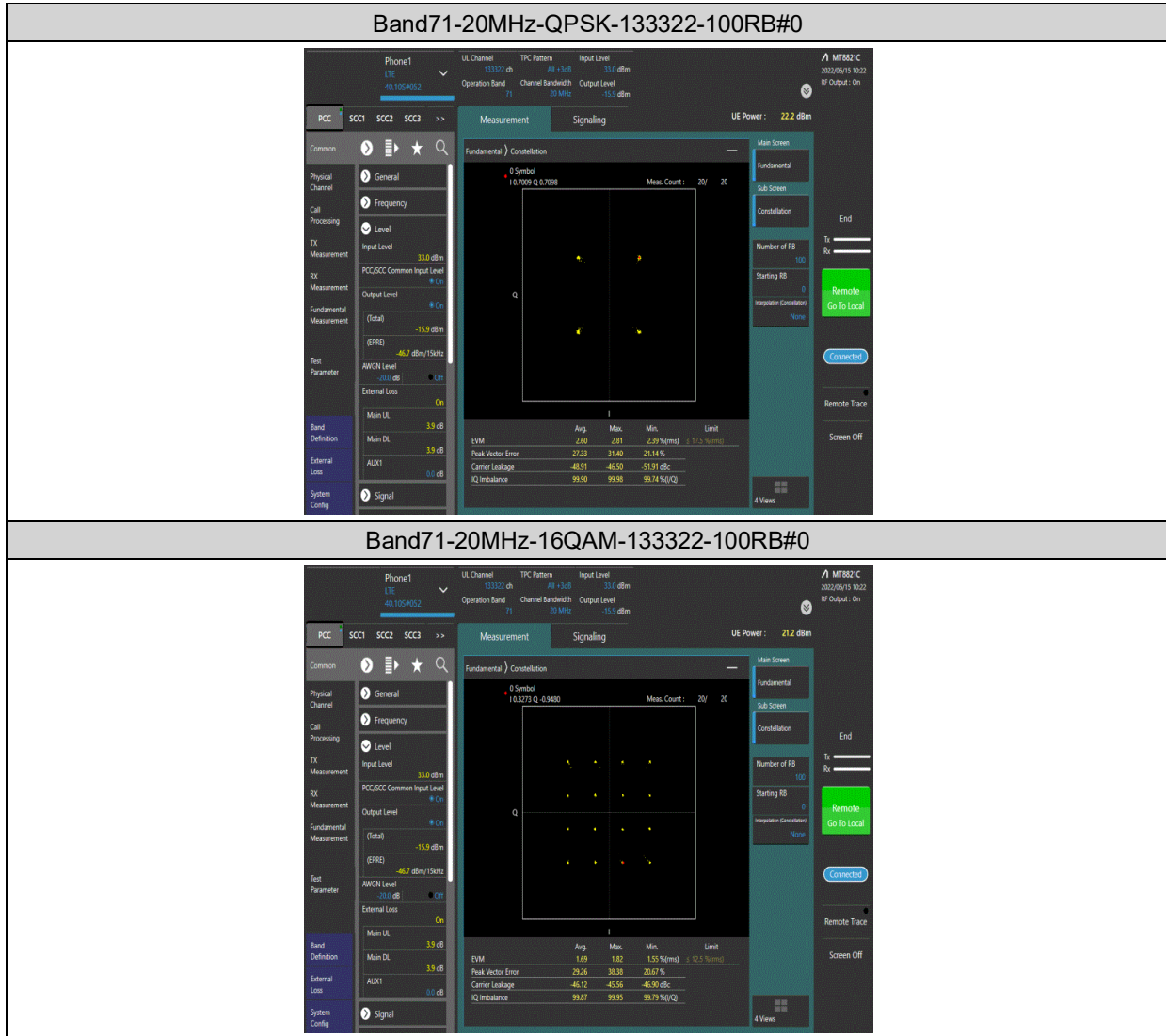
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band71	20MHz	QPSK	133322	100RB#0	PASS	PASS
Band71	20MHz	16QAM	133322	100RB#0	PASS	PASS
Band71	20MHz	64QAM	133322	100RB#0	PASS	PASS



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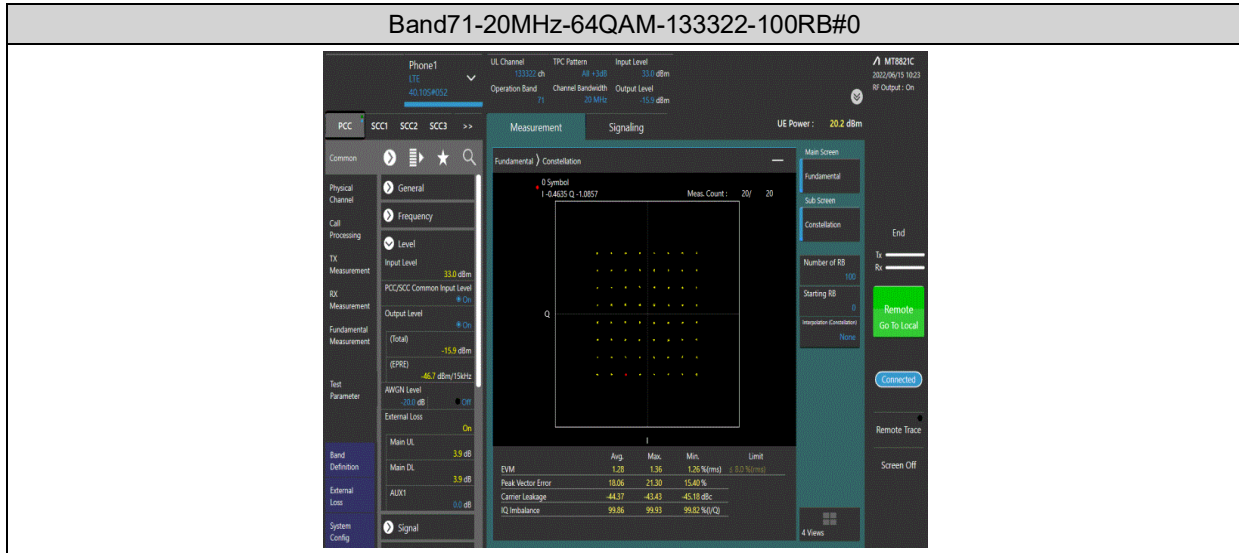
Test Graphs



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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	4.468	4.87	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.469	4.86	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.471	4.90	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.470	4.92	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.463	4.91	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.463	4.90	PASS
Band71	5MHz	64QAM	133147	25RB#0	4.478	4.89	PASS
Band71	5MHz	64QAM	133297	25RB#0	4.478	4.89	PASS
Band71	5MHz	64QAM	133447	25RB#0	4.483	4.87	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.924	9.76	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.915	9.68	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.922	9.68	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.926	9.60	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.901	9.58	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.917	9.60	PASS
Band71	10MHz	64QAM	133172	50RB#0	8.918	9.66	PASS
Band71	10MHz	64QAM	133297	50RB#0	8.922	9.64	PASS
Band71	10MHz	64QAM	133422	50RB#0	8.927	9.62	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.459	14.79	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.455	14.79	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.465	14.67	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.433	14.91	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.449	14.73	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.449	14.79	PASS
Band71	15MHz	64QAM	133197	75RB#0	13.426	14.73	PASS
Band71	15MHz	64QAM	133297	75RB#0	13.421	14.76	PASS
Band71	15MHz	64QAM	133397	75RB#0	13.430	14.76	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.919	19.48	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.906	19.52	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.886	19.36	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.868	19.40	PASS



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Rev.: 01

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Band71	20MHz	16QAM	133322	100RB#0	17.867	19.36	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.855	19.36	PASS
Band71	20MHz	64QAM	133222	100RB#0	17.851	20.00	PASS
Band71	20MHz	64QAM	133322	100RB#0	17.859	19.36	PASS
Band71	20MHz	64QAM	133372	100RB#0	17.856	19.44	PASS



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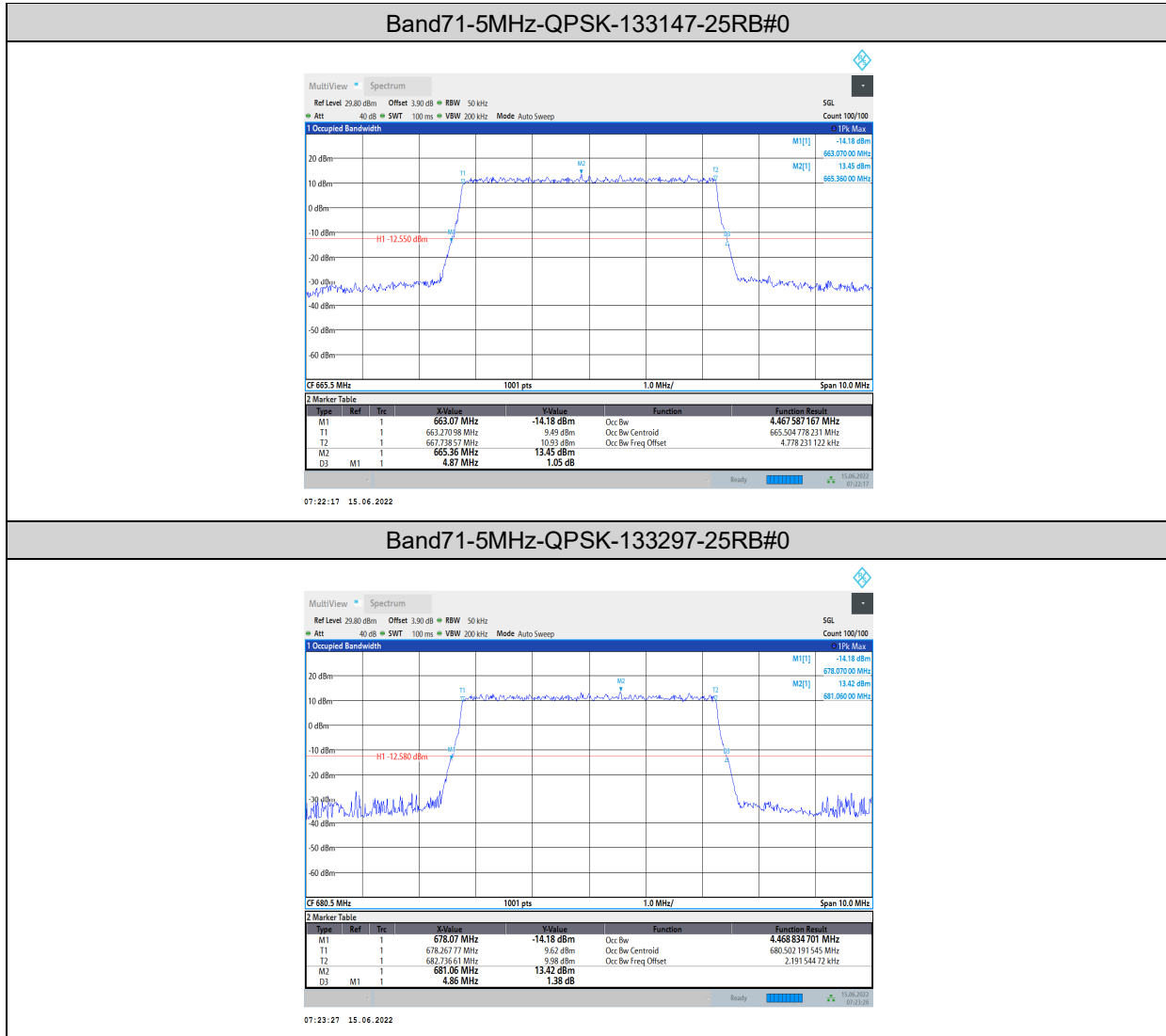
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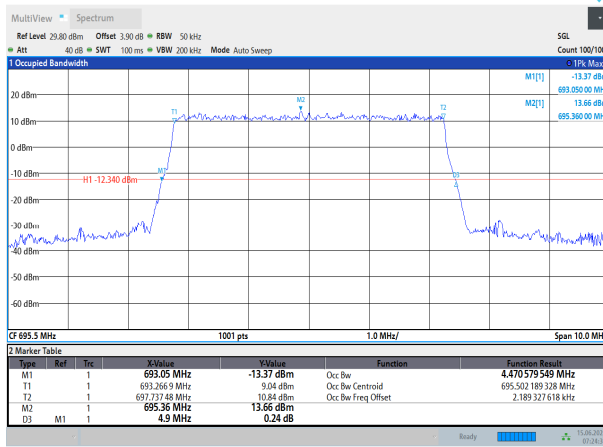
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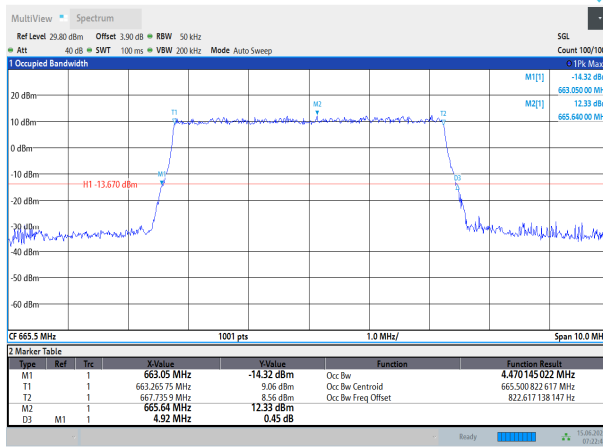


Band71-5MHz-QPSK-133447-25RB#0



07:24:36 15. 06. 2022

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



07:22:40 15. 06. 2022



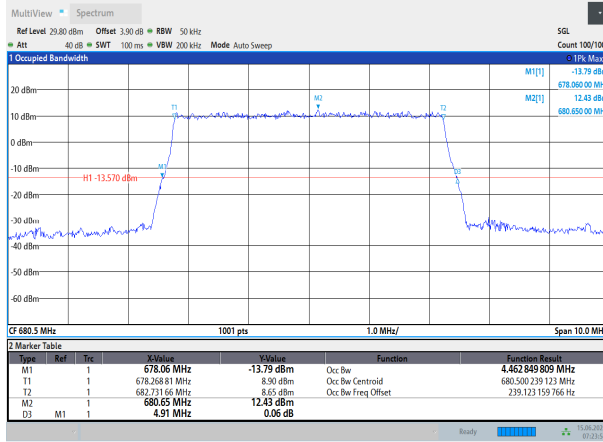
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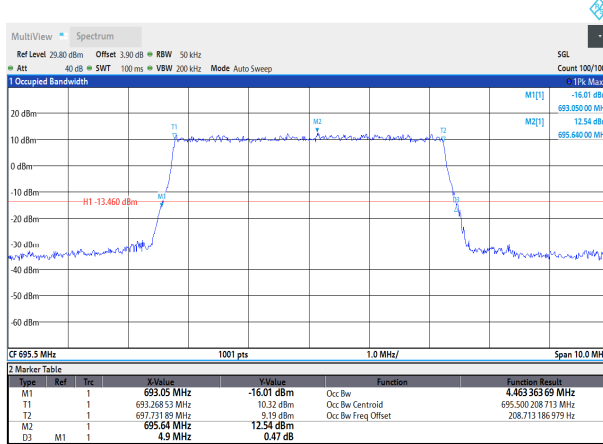


Band71-5MHz-16QAM-133297-25RB#0



07:23:50 15.06.2022

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



07:24:59 15.06.2022

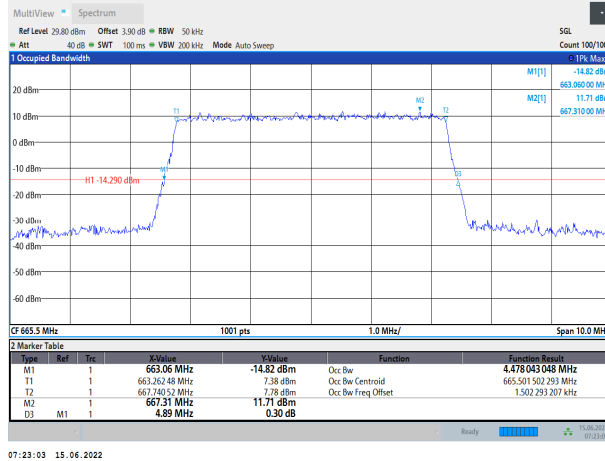


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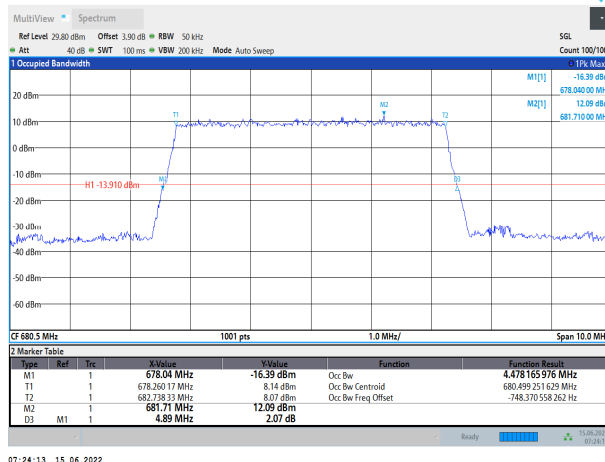
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Band71-5MHz-64QAM-133147-25RB#0



07:29:03 15.06.2022

Band71-5MHz-64QAM-133297-25RB#0



07:24:13 15.06.2022



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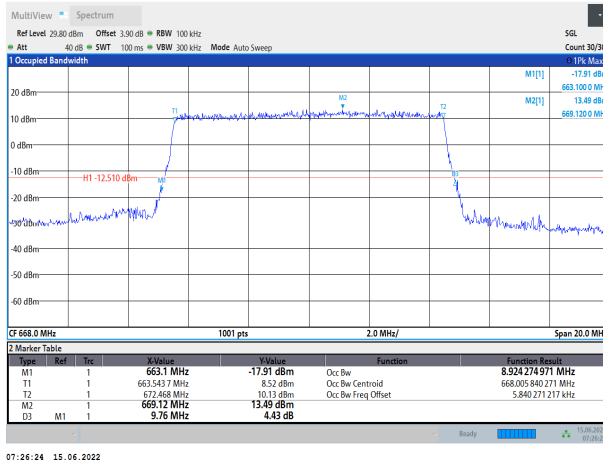
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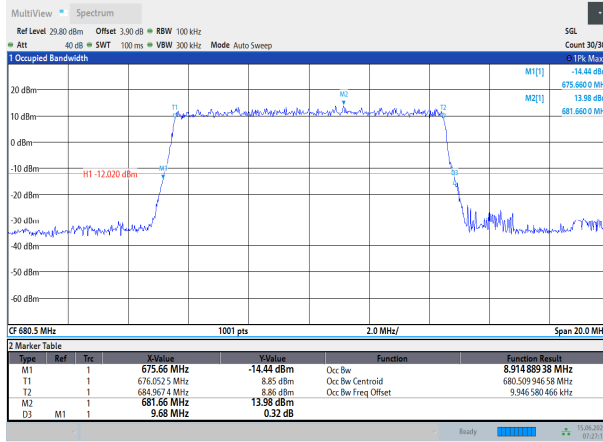
Band71-10MHz-QPSK-133172-50RB#0



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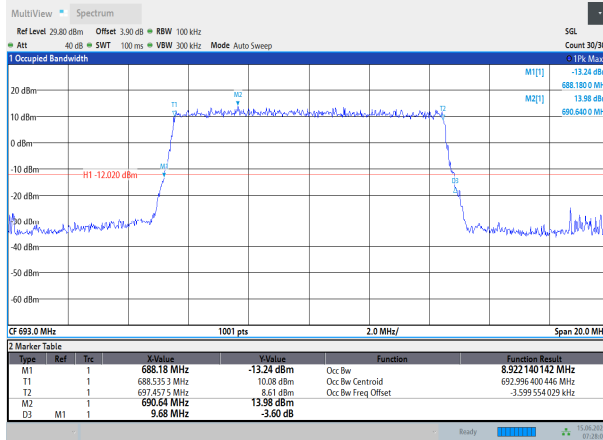
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Band71-10MHz-QPSK-133297-50RB#0



07:27:13 15. 06. 2022

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



07:28:01 15. 06. 2022

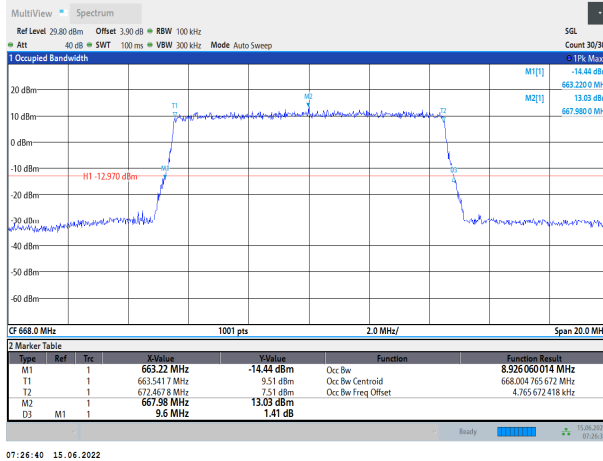


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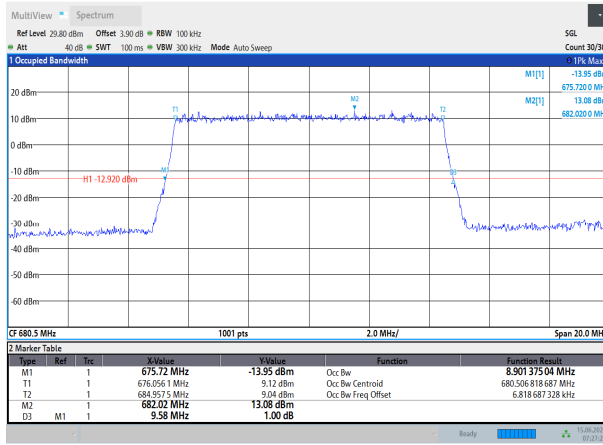
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Band71-10MHz-16QAM-133172-50RB#0



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



07:27:29 15.06.2022



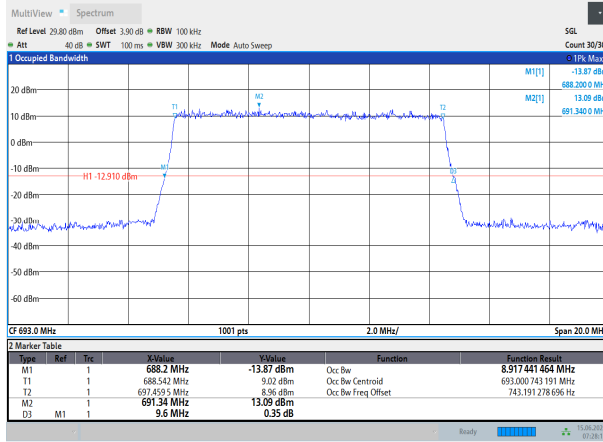
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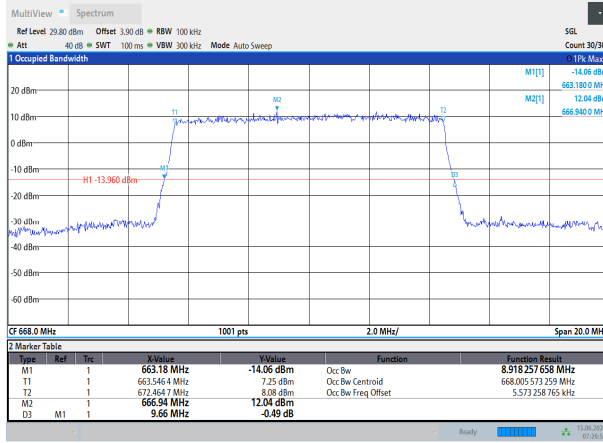


Band71-10MHz-16QAM-133422-50RB#0



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Band71-10MHz-64QAM-133172-50RB#0



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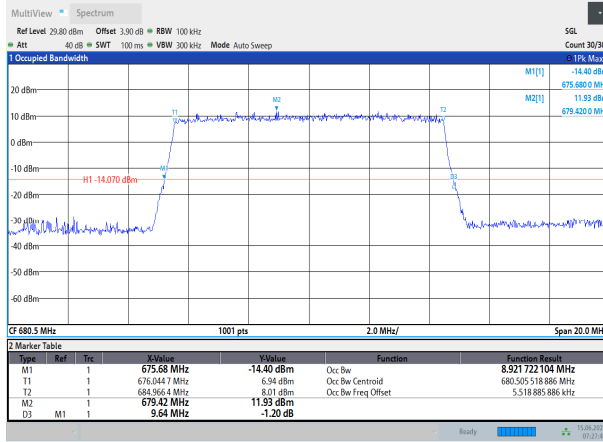


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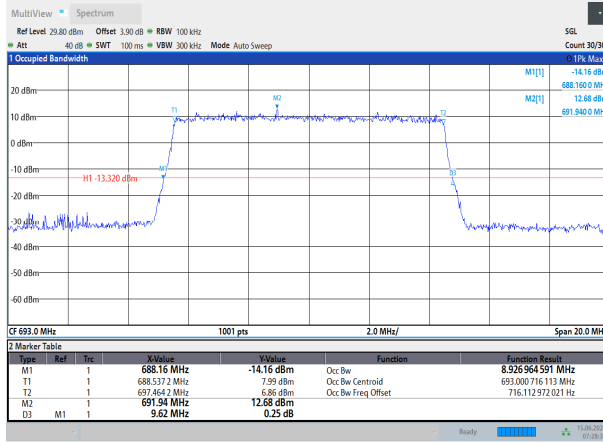
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Band71-10MHz-64QAM-133297-50RB#0



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Band71-10MHz-64QAM-133422-50RB#0



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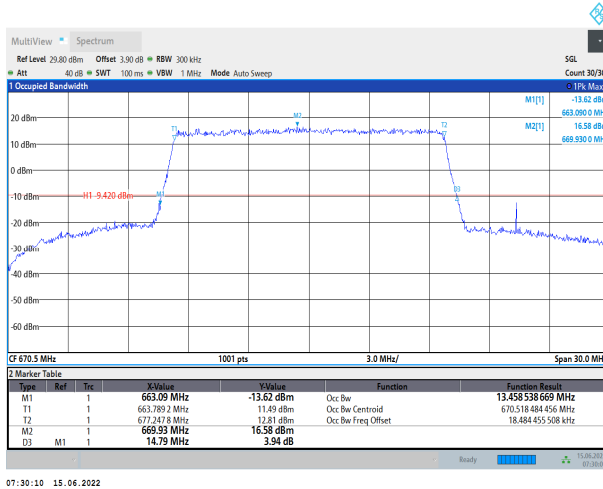


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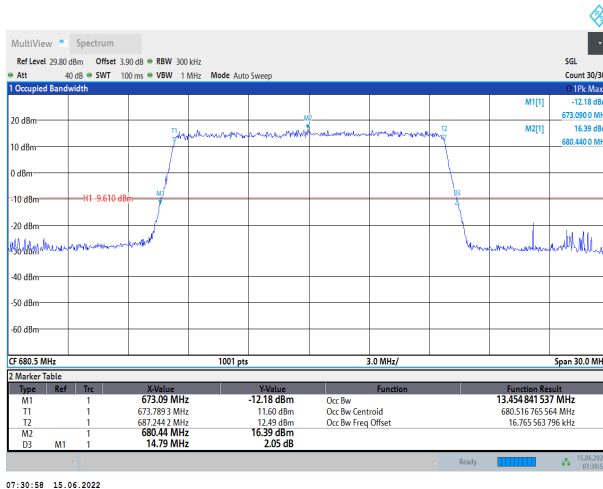
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Band71-15MHz-QPSK-133197-75RB#0



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



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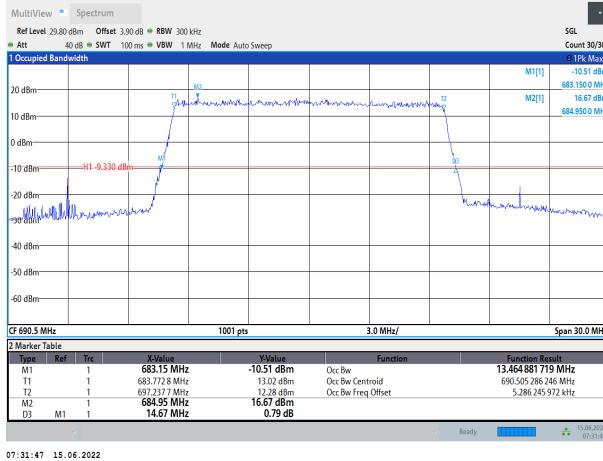
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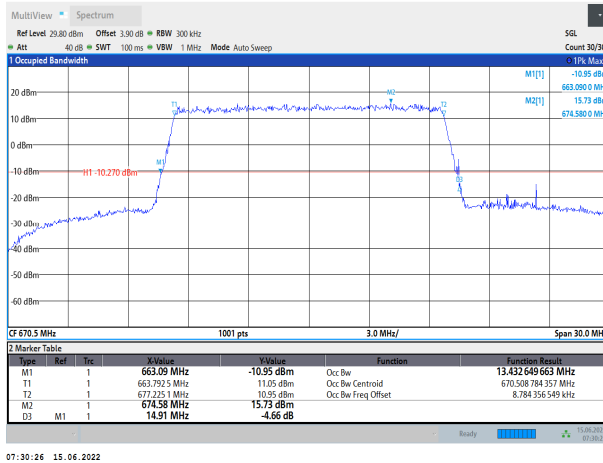
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Band71-15MHz-16QAM-133197-75RB#0

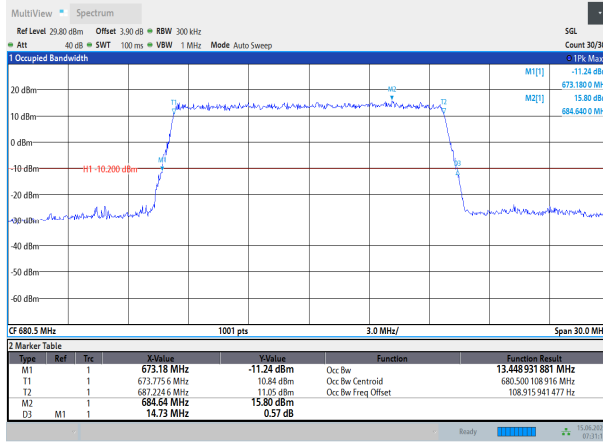


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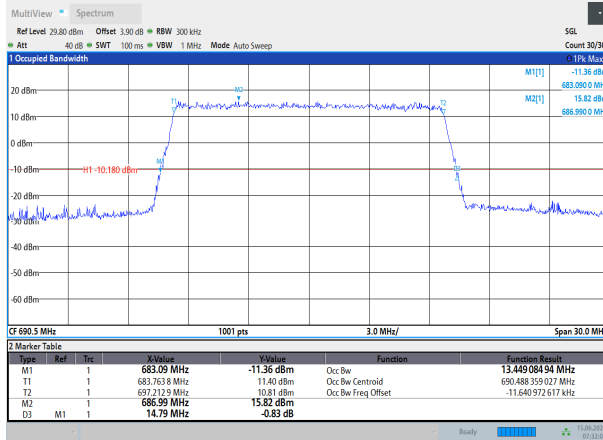
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Band71-15MHz-16QAM-133397-75RB#0



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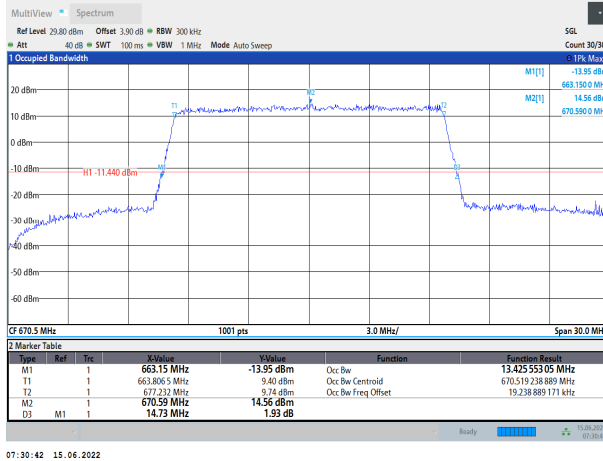


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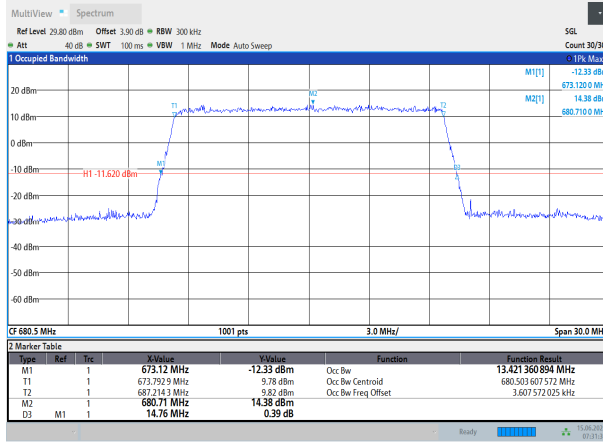
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07:30:42 15.06.2022

Band71-15MHz-64QAM-133297-75RB#0



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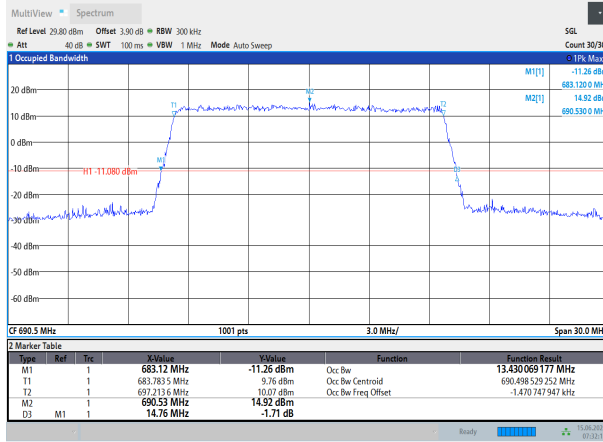
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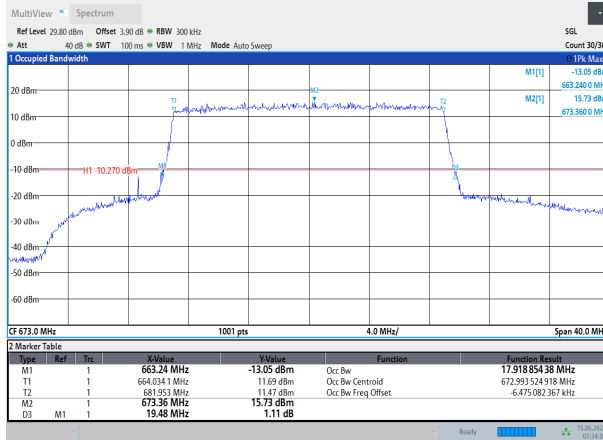


Band71-15MHz-64QAM-133397-75RB#0



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



07:34:05 15.06.2022

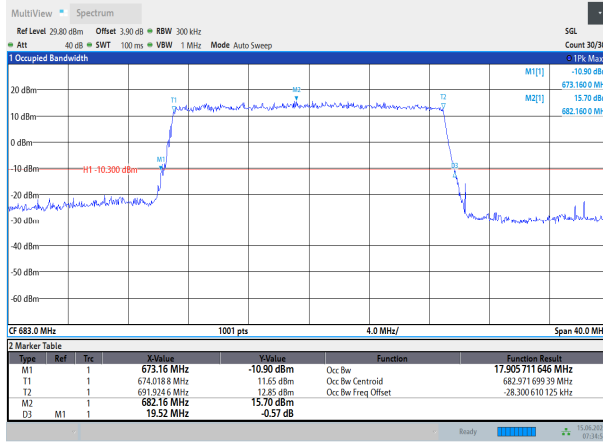


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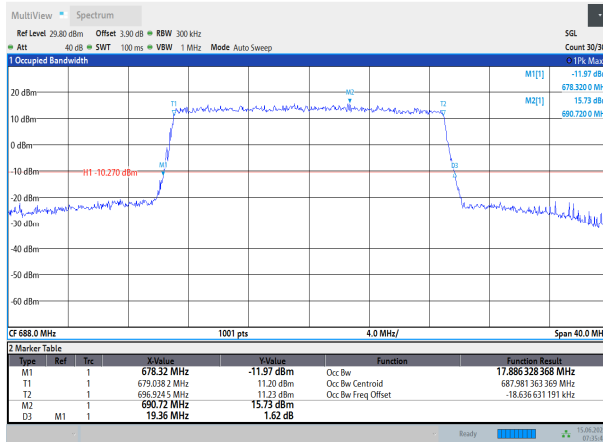
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Band71-20MHz-QPSK-133372-100RB#0



07:35:42 15.06.2022



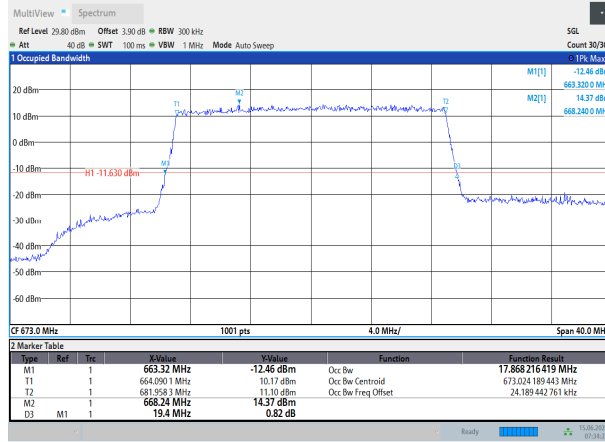
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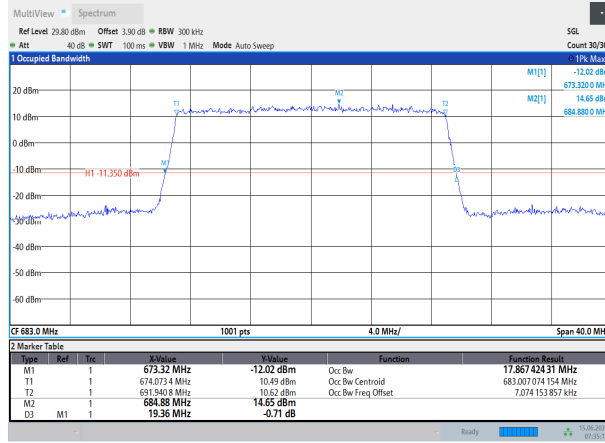


Band71-20MHz-16QAM-133222-100RB#0



07:34:21 15. 06. 2022

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



07:35:10 15. 06. 2022

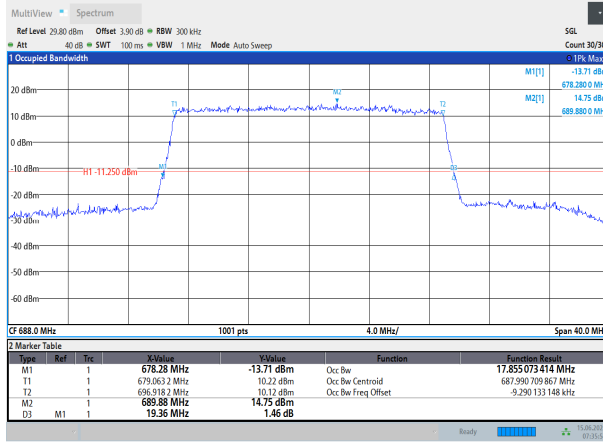


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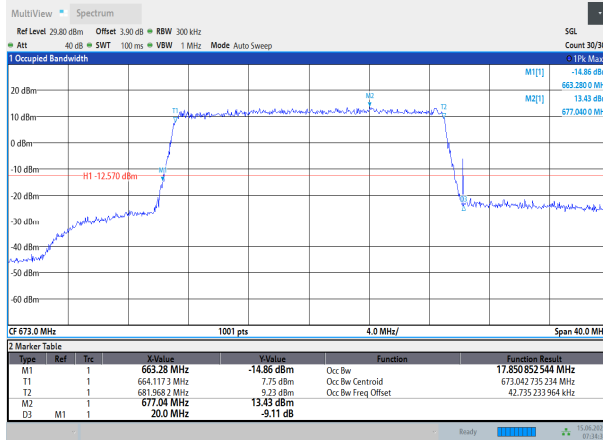


Band71-20MHz-16QAM-133372-100RB#0



07:35:58 15.06.2022

Band71-20MHz-64QAM-133222-100RB#0



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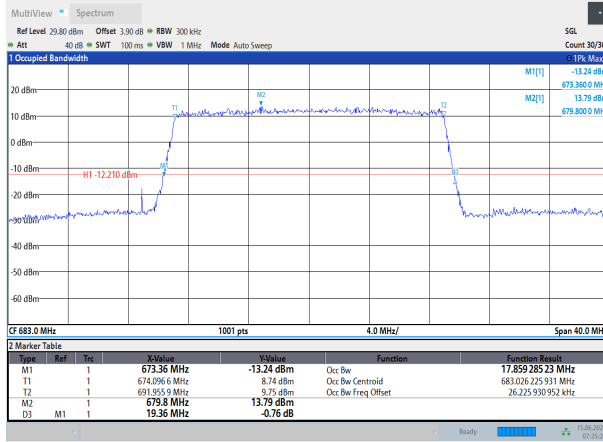
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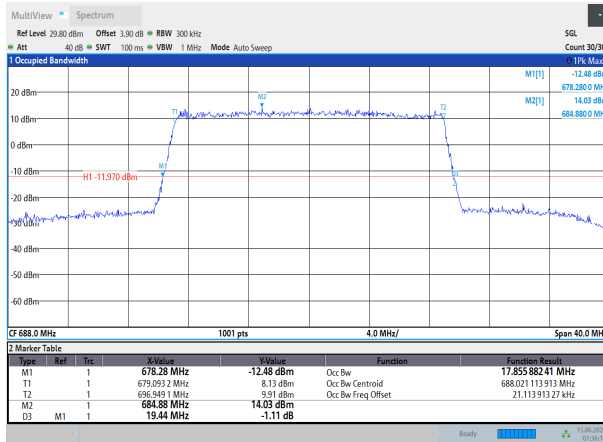


Band71-20MHz-64QAM-133322-100RB#0



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Band71-20MHz-64QAM-133372-100RB#0



07:36:14 15.06.2022



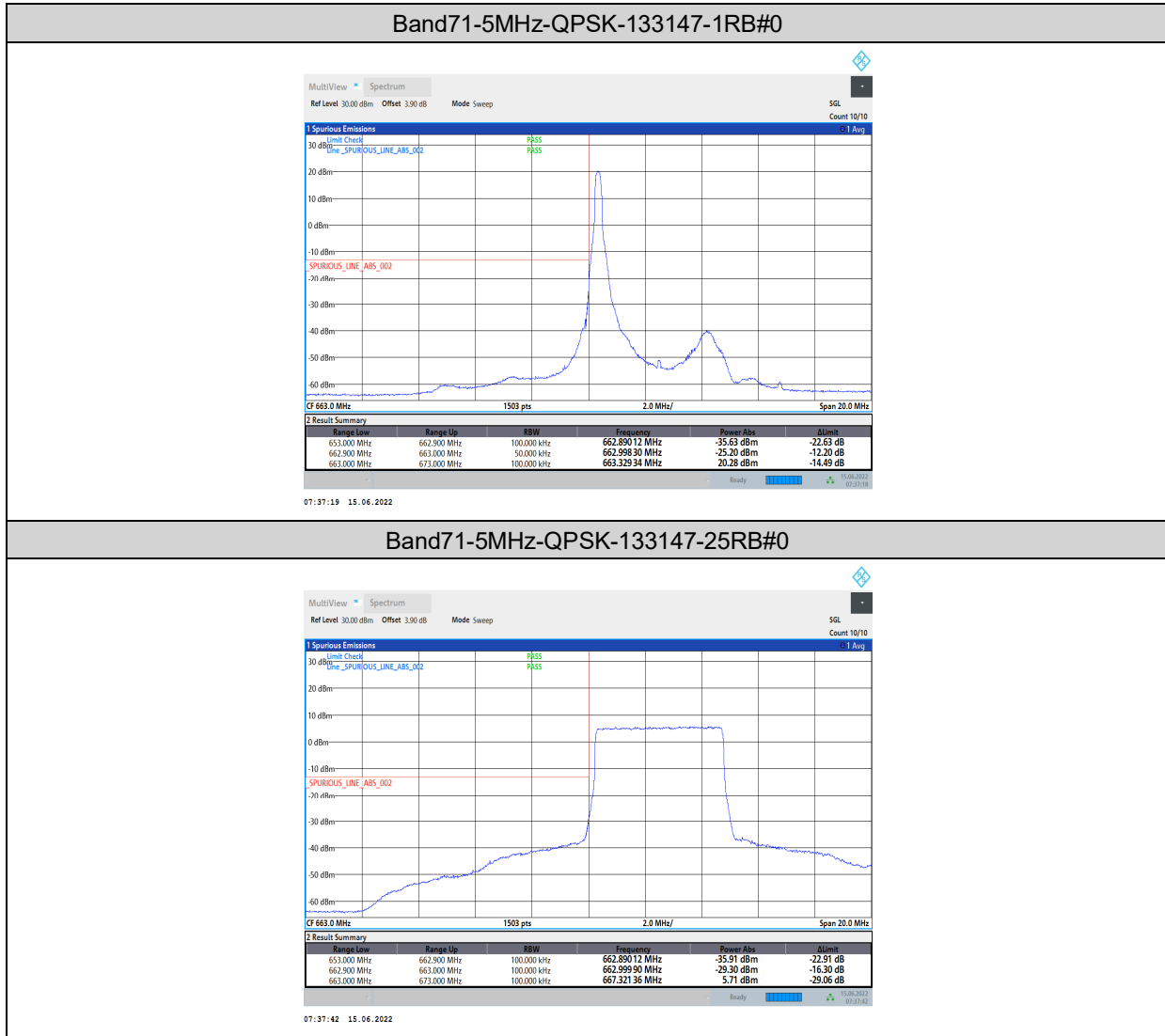
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Band Edge

Test Graphs



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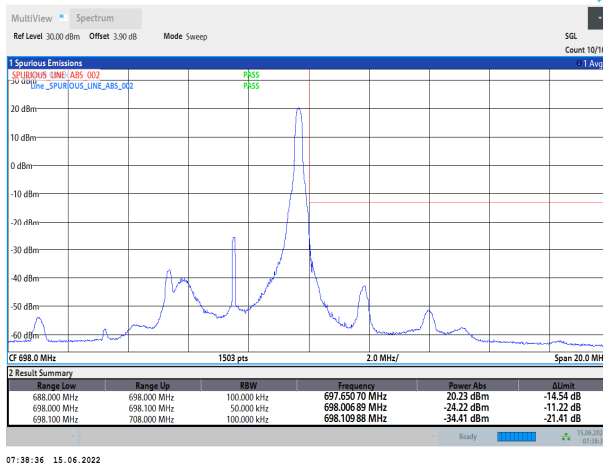
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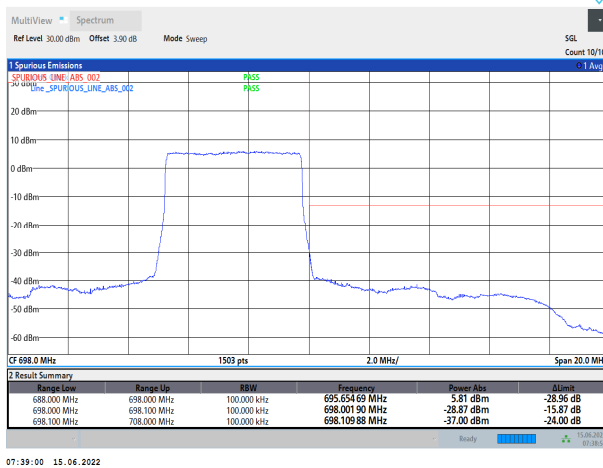
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Band71-5MHz-QPSK-133447-1RB#24



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

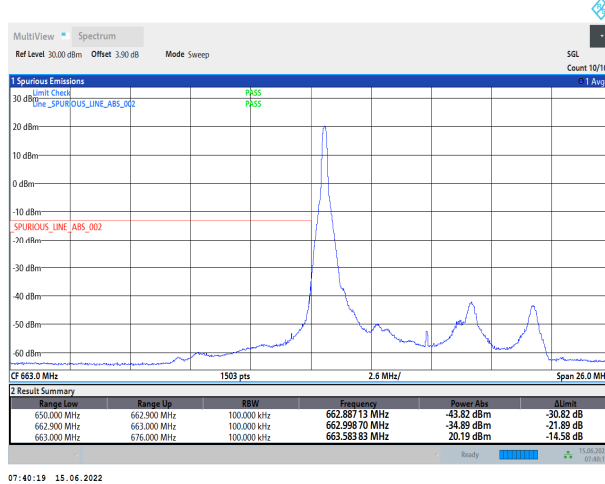


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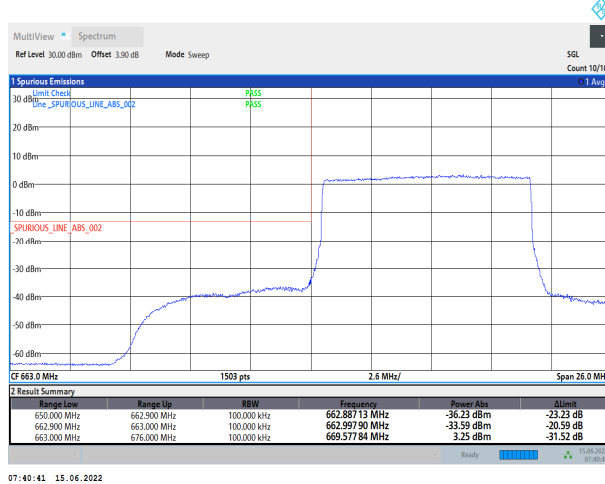
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Band71-10MHz-QPSK-133172-1RB#0



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



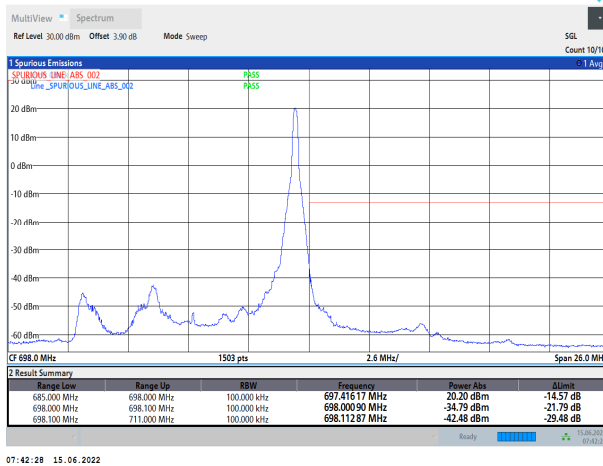
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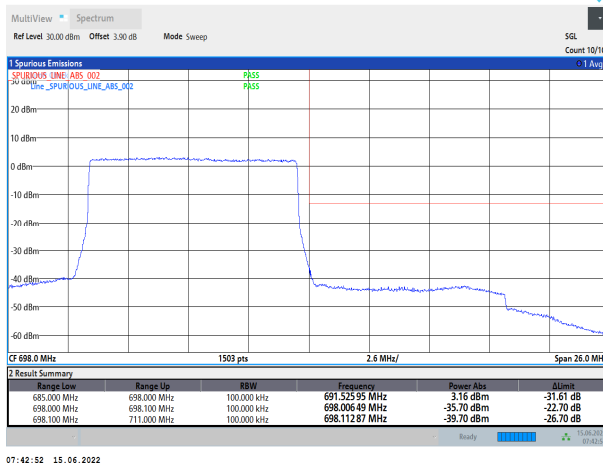
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Band71-10MHz-QPSK-133422-1RB#49



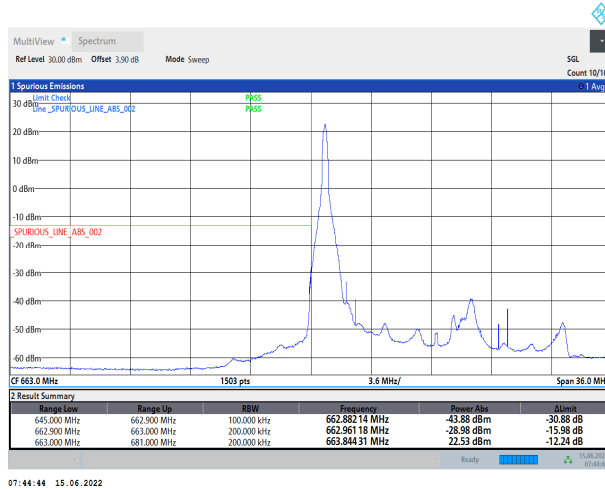
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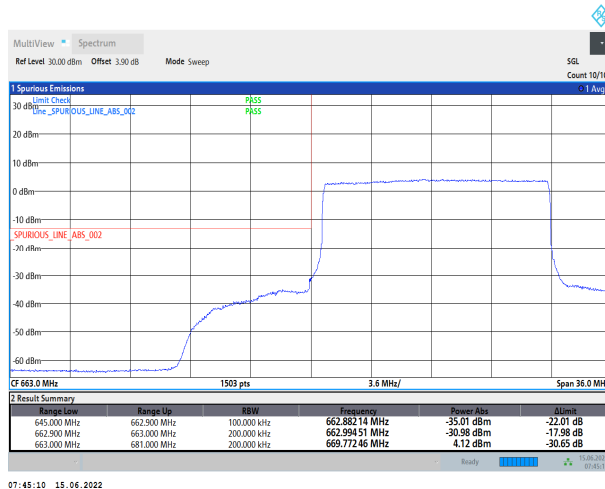
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Band71-15MHz-QPSK-133197-1RB#0



07:44:44 15.06.2022

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



07:45:10 15.06.2022



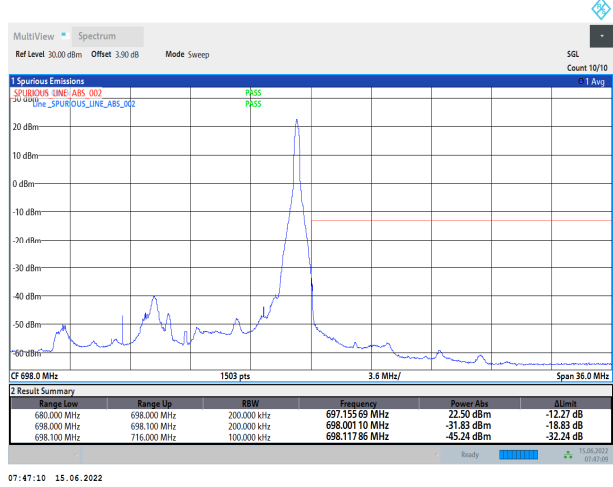
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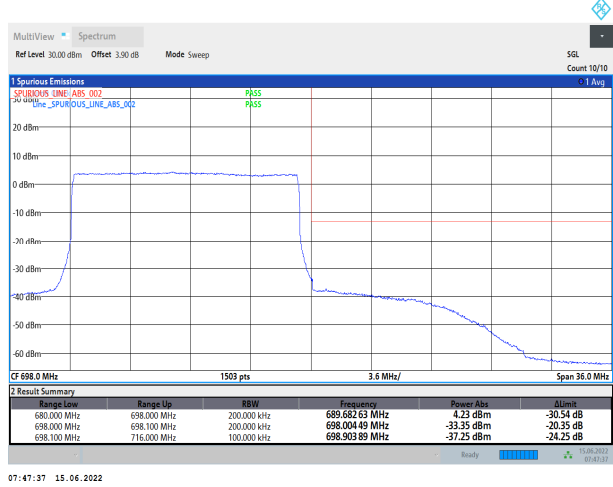
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Band71-15MHz-QPSK-133397-1RB#74



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



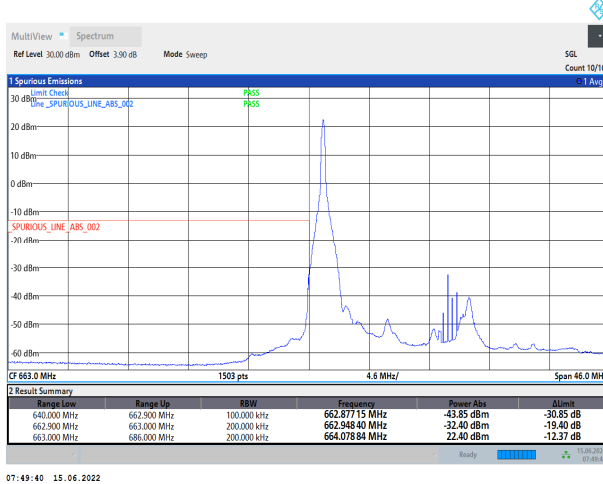
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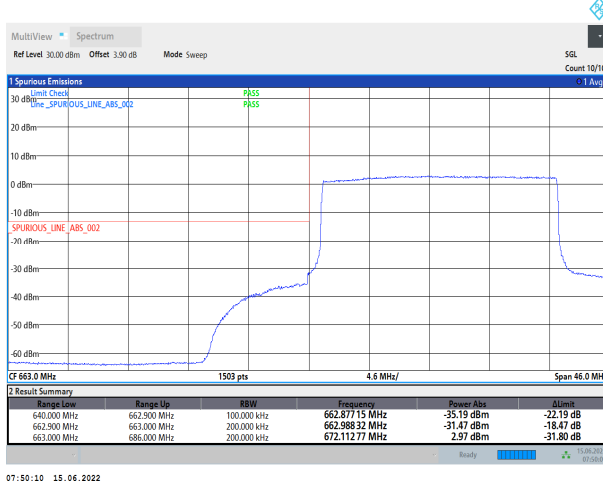
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Band71-20MHz-QPSK-133222-1RB#0



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



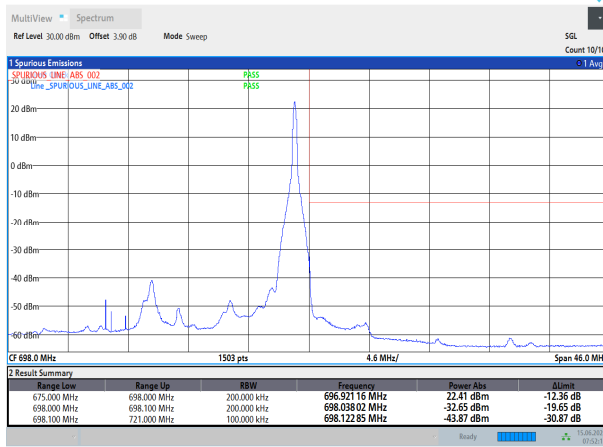
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Band71-20MHz-QPSK-133372-1RB#99



07:52:15 15.06.2022

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



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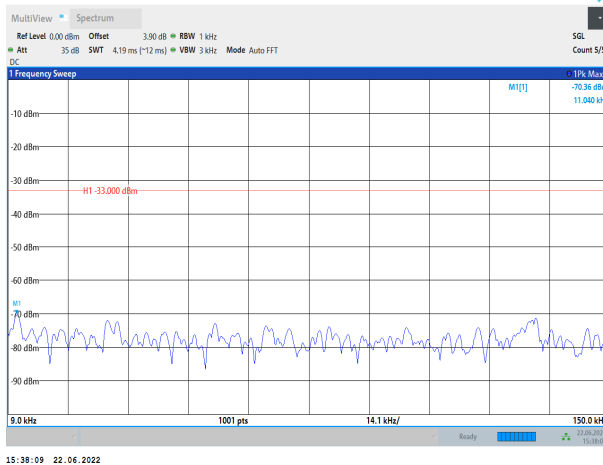
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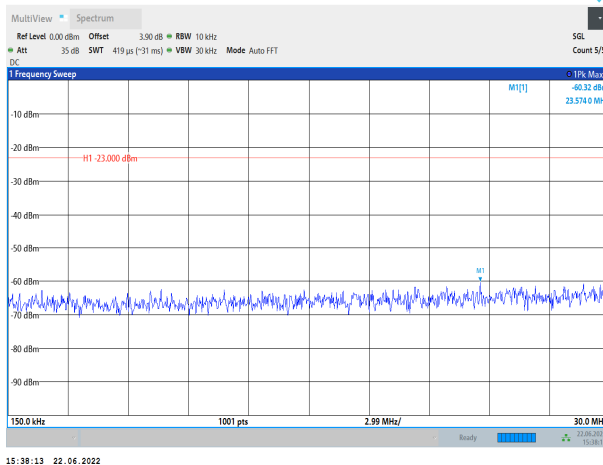
Conducted Spurious Emission

Test Graphs

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



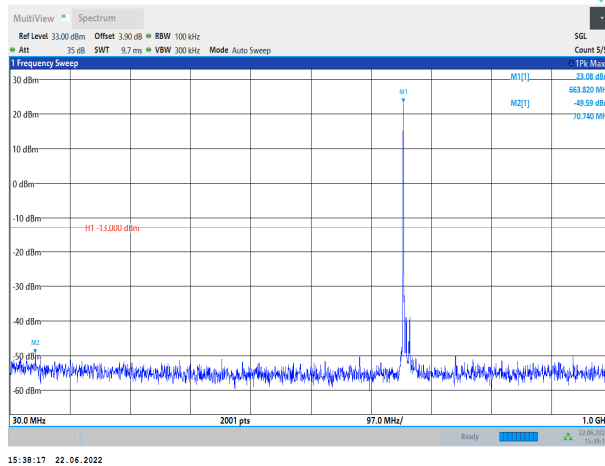
Band71-20MHz-QPSK-133222-1RB#0-Range2:0.15~30MHz



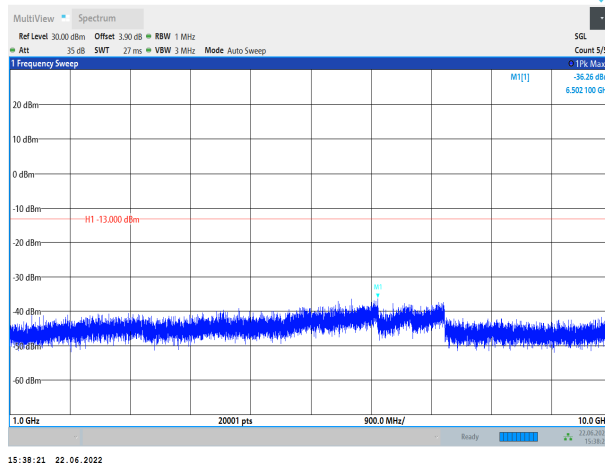
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Band71-20MHz-QPSK-133222-1RB#0-Range3:30~1000MHz



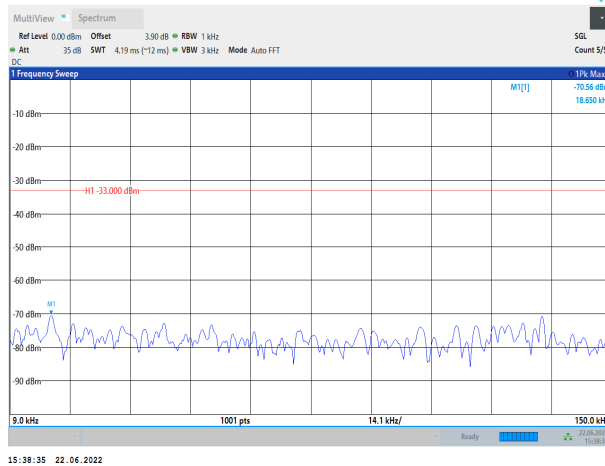
Band71-20MHz-QPSK-133222-1RB#0-Range4:1000~10000MHz



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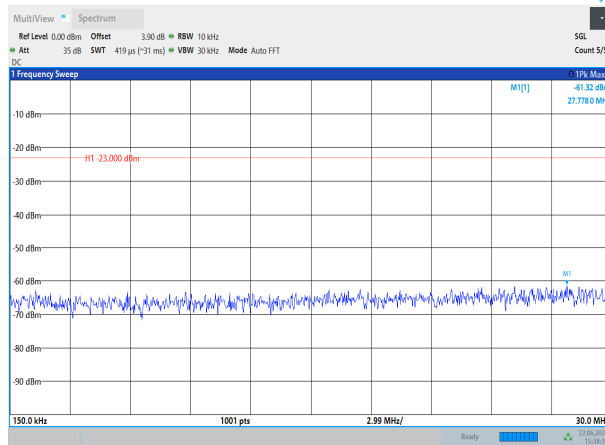
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Band71-20MHz-QPSK-133322-1RB#0-Range1:0.009~0.15MHz



15:38:35 22.06.2022

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



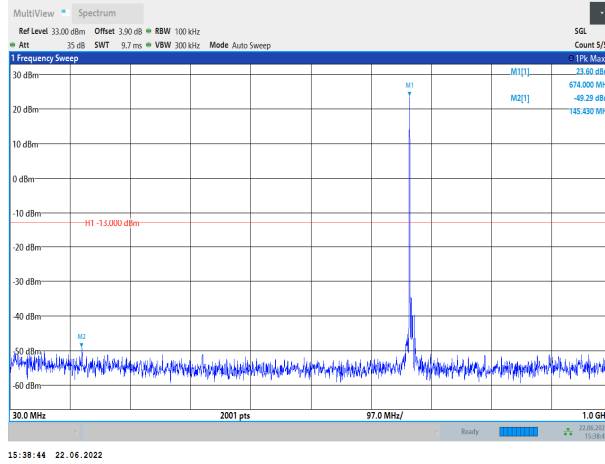
15:38:39 22.06.2022



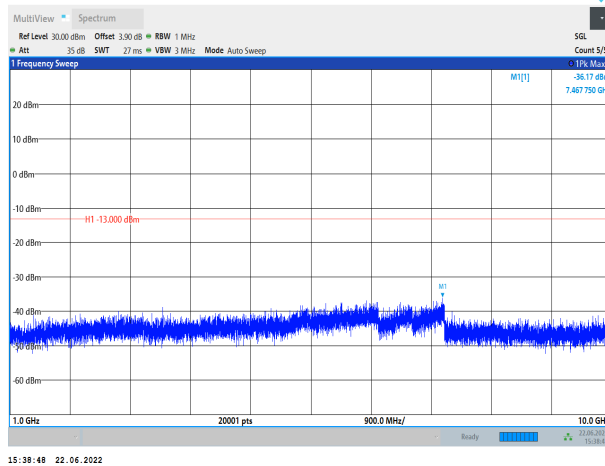
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Band71-20MHz-QPSK-133322-1RB#0-Range3:30~1000MHz



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

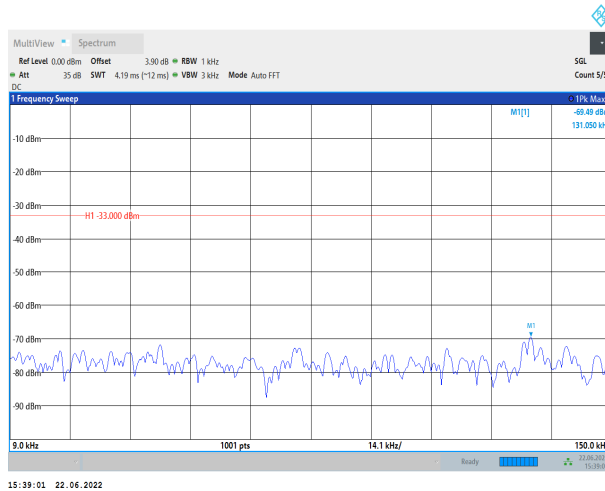


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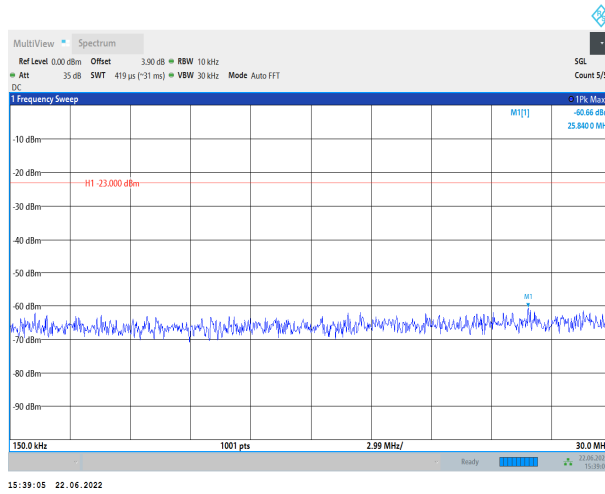
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Band71-20MHz-QPSK-133372-1RB#0-Range1:0.009~0.15MHz



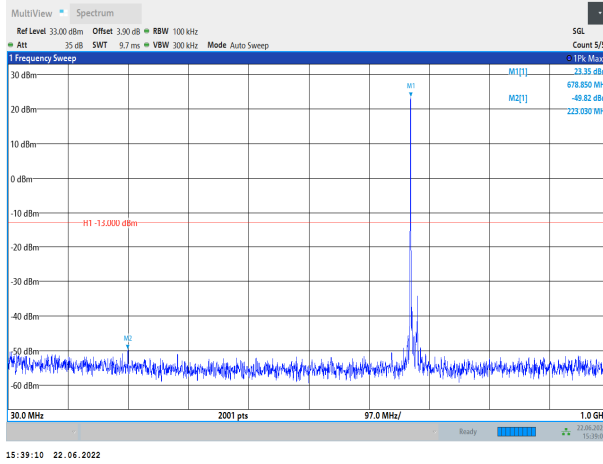
Band71-20MHz-QPSK-133372-1RB#0-Range2:0.15~30MHz



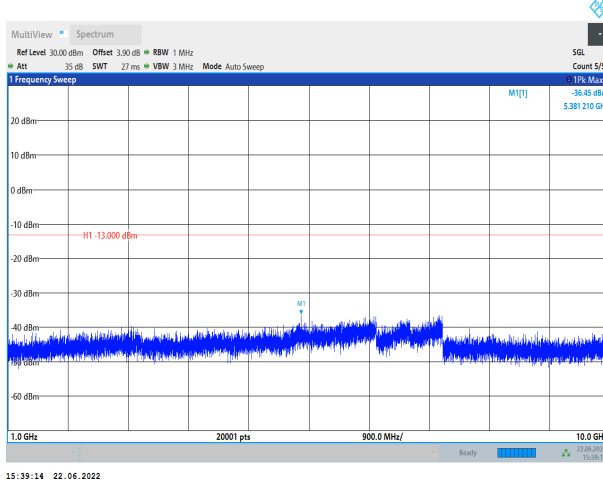
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Band71-20MHz-QPSK-133372-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band 71_ 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	61.29	-117.74	-56.45	-13.00	43.45	125	212	Horizontal
2	1992.2700	49.82	-116.58	-66.76	-13.00	53.76	236	360	Horizontal
3	2656.3600	50.38	-114.05	-63.67	-13.00	50.67	261	360	Horizontal
4	3320.4500	51.70	-112.38	-60.68	-13.00	47.68	169	212	Horizontal
5	3984.5400	48.67	-110.70	-62.03	-13.00	49.03	185	233	Horizontal
6	4648.6300	47.82	-109.20	-61.38	-13.00	48.38	194	106	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1328.1800	54.86	-117.74	-62.88	-13.00	49.88	251	276	Vertical
2	1992.2700	50.37	-116.58	-66.21	-13.00	53.21	236	87	Vertical
3	2656.3600	50.98	-114.05	-63.07	-13.00	50.07	191	193	Vertical
4	3320.4500	50.44	-112.38	-61.94	-13.00	48.94	258	236	Vertical
5	3984.5400	50.09	-110.70	-60.61	-13.00	47.61	147	150	Vertical
6	4648.6300	49.50	-109.20	-59.70	-13.00	46.70	201	236	Vertical



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Test Band = LTE Band 71_ 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	56.53	-117.72	-61.19	-13.00	48.19	111	343	Horizontal
2	2022.2700	52.01	-116.40	-64.39	-13.00	51.39	269	145	Horizontal
3	2696.3600	50.33	-114.02	-63.69	-13.00	50.69	195	256	Horizontal
4	3370.4500	50.06	-112.37	-62.31	-13.00	49.31	187	218	Horizontal
5	4044.5400	49.57	-110.46	-60.89	-13.00	47.89	197	354	Horizontal
6	4718.6300	48.72	-108.96	-60.24	-13.00	47.24	142	281	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1348.1800	53.60	-117.72	-64.12	-13.00	51.12	225	70	Vertical
2	2022.2700	53.32	-116.40	-63.08	-13.00	50.08	236	325	Vertical
3	2696.3600	50.20	-114.02	-63.82	-13.00	50.82	230	113	Vertical
4	3370.4500	50.95	-112.37	-61.42	-13.00	48.42	210	154	Vertical
5	4044.5400	50.20	-110.46	-60.26	-13.00	47.26	148	134	Vertical
6	4718.6300	48.56	-108.96	-60.40	-13.00	47.40	190	3	Vertical



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Test Band = LTE Band 71_ 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	54.42	-117.70	-63.28	-13.00	50.28	233	351	Horizontal
2	2037.2700	51.56	-116.32	-64.76	-13.00	51.76	265	232	Horizontal
3	2716.3600	50.89	-113.97	-63.08	-13.00	50.08	296	168	Horizontal
4	3395.4500	50.39	-112.37	-61.98	-13.00	48.98	254	317	Horizontal
5	4074.5400	49.06	-110.32	-61.26	-13.00	48.26	181	317	Horizontal
6	4753.6300	49.25	-108.79	-59.54	-13.00	46.54	172	168	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1358.1800	52.52	-117.70	-65.18	-13.00	52.18	211	276	Vertical
2	2037.2700	51.88	-116.32	-64.44	-13.00	51.44	143	86	Vertical
3	2716.3600	50.76	-113.97	-63.21	-13.00	50.21	236	357	Vertical
4	3395.4500	51.10	-112.37	-61.27	-13.00	48.27	191	357	Vertical
5	4074.5400	49.54	-110.32	-60.78	-13.00	47.78	254	43	Vertical
6	4753.6300	48.55	-108.79	-60.24	-13.00	47.24	180	65	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading Level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor} = \text{AF(dB/m)} + \text{Cable Factor(dB)} - \text{Preamplifier gain(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$



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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	0.10	0.000146	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	0.80	0.001171	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	0.50	0.000732	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	1.40	0.002050	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	0.80	0.001171	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-1.50	-0.002196	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	1.90	0.002782	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-1.50	-0.002196	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	1.50	0.002196	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	1.30	0.001903	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	1.20	0.001757	PASS

---End of Attachment---



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