



Appendix B

E-UTRA Band 71



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

ANT2:

Band	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	EIRP (dBm)	limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	24.23	27.3	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#12	24.51	27.58	36.98	PASS
Band71	5MHz	QPSK	133147	1RB#24	24.38	27.45	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#0	23.10	26.17	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#6	23.41	26.48	36.98	PASS
Band71	5MHz	QPSK	133147	12RB#13	23.25	26.32	36.98	PASS
Band71	5MHz	QPSK	133147	25RB#0	23.25	26.32	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#0	24.13	27.2	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#24	24.12	27.19	36.98	PASS
Band71	5MHz	QPSK	133297	1RB#12	24.29	27.36	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#0	23.12	26.19	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#6	23.27	26.34	36.98	PASS
Band71	5MHz	QPSK	133297	12RB#13	23.28	26.35	36.98	PASS
Band71	5MHz	QPSK	133297	25RB#0	23.28	26.35	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#24	24.33	27.4	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#0	24.16	27.23	36.98	PASS
Band71	5MHz	QPSK	133447	1RB#12	24.07	27.14	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#0	23.24	26.31	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#6	23.34	26.41	36.98	PASS
Band71	5MHz	QPSK	133447	12RB#13	23.22	26.29	36.98	PASS
Band71	5MHz	QPSK	133447	25RB#0	23.30	26.37	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.97	26.04	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#12	23.40	26.47	36.98	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.46	25.53	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#6	22.31	25.38	36.98	PASS
Band71	5MHz	16QAM	133147	12RB#0	22.26	25.33	36.98	PASS



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Band71	5MHz	16QAM	133147	12RB#13	21.97	25.04	36.98	PASS
Band71	5MHz	16QAM	133147	25RB#0	22.18	25.25	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.89	25.96	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#12	23.03	26.1	36.98	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.95	26.02	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#13	22.26	25.33	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#0	22.20	25.27	36.98	PASS
Band71	5MHz	16QAM	133297	12RB#6	22.26	25.33	36.98	PASS
Band71	5MHz	16QAM	133297	25RB#0	22.46	25.53	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#12	23.26	26.33	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.81	25.88	36.98	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.85	25.92	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#0	22.33	25.4	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#6	22.31	25.38	36.98	PASS
Band71	5MHz	16QAM	133447	12RB#13	22.18	25.25	36.98	PASS
Band71	5MHz	16QAM	133447	25RB#0	22.34	25.41	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#24	24.40	27.47	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#49	24.12	27.19	36.98	PASS
Band71	10MHz	QPSK	133172	1RB#0	24.18	27.25	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#0	23.34	26.41	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#12	23.33	26.4	36.98	PASS
Band71	10MHz	QPSK	133172	25RB#25	23.08	26.15	36.98	PASS
Band71	10MHz	QPSK	133172	50RB#0	23.19	26.26	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.94	27.01	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#49	24.08	27.15	36.98	PASS
Band71	10MHz	QPSK	133297	1RB#24	24.39	27.46	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#25	23.23	26.3	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#0	23.34	26.41	36.98	PASS
Band71	10MHz	QPSK	133297	25RB#12	23.33	26.4	36.98	PASS
Band71	10MHz	QPSK	133297	50RB#0	23.24	26.31	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#24	24.37	27.44	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#0	24.32	27.39	36.98	PASS
Band71	10MHz	QPSK	133422	1RB#49	24.38	27.45	36.98	PASS



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Band71	10MHz	QPSK	133422	25RB#0	23.34	26.41	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#25	23.35	26.42	36.98	PASS
Band71	10MHz	QPSK	133422	25RB#12	23.27	26.34	36.98	PASS
Band71	10MHz	QPSK	133422	50RB#0	23.37	26.44	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#49	22.76	25.83	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.94	26.01	36.98	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.89	25.96	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#25	22.02	25.09	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#12	22.16	25.23	36.98	PASS
Band71	10MHz	16QAM	133172	25RB#0	22.24	25.31	36.98	PASS
Band71	10MHz	16QAM	133172	50RB#0	22.32	25.39	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#49	23.00	26.07	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.82	25.89	36.98	PASS
Band71	10MHz	16QAM	133297	1RB#24	23.00	26.07	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#25	22.38	25.45	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#0	22.38	25.45	36.98	PASS
Band71	10MHz	16QAM	133297	25RB#12	22.38	25.45	36.98	PASS
Band71	10MHz	16QAM	133297	50RB#0	22.23	25.3	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.99	26.06	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.97	26.04	36.98	PASS
Band71	10MHz	16QAM	133422	1RB#49	23.01	26.08	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#0	22.42	25.49	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#12	22.51	25.58	36.98	PASS
Band71	10MHz	16QAM	133422	25RB#25	22.37	25.44	36.98	PASS
Band71	10MHz	16QAM	133422	50RB#0	22.50	25.57	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#0	24.18	27.25	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#38	24.35	27.42	36.98	PASS
Band71	15MHz	QPSK	133197	1RB#74	24.10	27.17	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#0	23.17	26.24	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#18	23.27	26.34	36.98	PASS
Band71	15MHz	QPSK	133197	36RB#39	23.09	26.16	36.98	PASS
Band71	15MHz	QPSK	133197	75RB#0	23.23	26.3	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.96	27.03	36.98	PASS



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Band71	15MHz	QPSK	133297	1RB#74	23.92	26.99	36.98	PASS
Band71	15MHz	QPSK	133297	1RB#38	24.31	27.38	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#0	23.18	26.25	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#18	23.22	26.29	36.98	PASS
Band71	15MHz	QPSK	133297	36RB#39	23.24	26.31	36.98	PASS
Band71	15MHz	QPSK	133297	75RB#0	23.21	26.28	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#74	24.15	27.22	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#0	24.22	27.29	36.98	PASS
Band71	15MHz	QPSK	133397	1RB#38	24.01	27.08	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#0	23.26	26.33	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#18	23.30	26.37	36.98	PASS
Band71	15MHz	QPSK	133397	36RB#39	23.25	26.32	36.98	PASS
Band71	15MHz	QPSK	133397	75RB#0	23.34	26.41	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.97	26.04	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.89	25.96	36.98	PASS
Band71	15MHz	16QAM	133197	1RB#74	22.82	25.89	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#18	22.33	25.4	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#0	22.11	25.18	36.98	PASS
Band71	15MHz	16QAM	133197	36RB#39	22.21	25.28	36.98	PASS
Band71	15MHz	16QAM	133197	75RB#0	22.18	25.25	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.77	25.84	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.67	25.74	36.98	PASS
Band71	15MHz	16QAM	133297	1RB#74	22.95	26.02	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#39	22.14	25.21	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#0	22.24	25.31	36.98	PASS
Band71	15MHz	16QAM	133297	36RB#18	22.18	25.25	36.98	PASS
Band71	15MHz	16QAM	133297	75RB#0	22.29	25.36	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#38	23.02	26.09	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#0	23.04	26.11	36.98	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.96	26.03	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#0	22.32	25.39	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#18	22.32	25.39	36.98	PASS
Band71	15MHz	16QAM	133397	36RB#39	22.34	25.41	36.98	PASS



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Band71	15MHz	16QAM	133397	75RB#0	22.27	25.34	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#99	24.10	27.17	36.98	PASS
Band71	20MHz	QPSK	133222	1RB#49	26.06	29.13	36.98	FAIL
Band71	20MHz	QPSK	133222	1RB#0	24.03	27.1	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#0	23.15	26.22	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#25	23.34	26.41	36.98	PASS
Band71	20MHz	QPSK	133222	50RB#50	23.11	26.18	36.98	PASS
Band71	20MHz	QPSK	133222	100RB#0	23.09	26.16	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.91	26.98	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#99	23.74	26.81	36.98	PASS
Band71	20MHz	QPSK	133322	1RB#49	24.43	27.5	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#50	23.09	26.16	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#0	23.30	26.37	36.98	PASS
Band71	20MHz	QPSK	133322	50RB#25	23.30	26.37	36.98	PASS
Band71	20MHz	QPSK	133322	100RB#0	23.18	26.25	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#49	24.48	27.55	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.90	26.97	36.98	PASS
Band71	20MHz	QPSK	133372	1RB#99	23.80	26.87	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#0	23.25	26.32	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#50	23.16	26.23	36.98	PASS
Band71	20MHz	QPSK	133372	50RB#25	23.30	26.37	36.98	PASS
Band71	20MHz	QPSK	133372	100RB#0	23.34	26.41	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.61	25.68	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.88	25.95	36.98	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.88	25.95	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#50	22.12	25.19	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#25	22.11	25.18	36.98	PASS
Band71	20MHz	16QAM	133222	50RB#0	22.25	25.32	36.98	PASS
Band71	20MHz	16QAM	133222	100RB#0	22.02	25.09	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#99	22.67	25.74	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.65	25.72	36.98	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.93	26	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#50	22.29	25.36	36.98	PASS



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Band71	20MHz	16QAM	133322	50RB#0	22.26	25.33	36.98	PASS
Band71	20MHz	16QAM	133322	50RB#25	22.20	25.27	36.98	PASS
Band71	20MHz	16QAM	133322	100RB#0	22.07	25.14	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#49	23.12	26.19	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.83	25.9	36.98	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.78	25.85	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#0	22.22	25.29	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#25	22.25	25.32	36.98	PASS
Band71	20MHz	16QAM	133372	50RB#50	22.33	25.4	36.98	PASS
Band71	20MHz	16QAM	133372	100RB#0	22.25	25.32	36.98	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

The conducted Power is measured by Base Station Simulator



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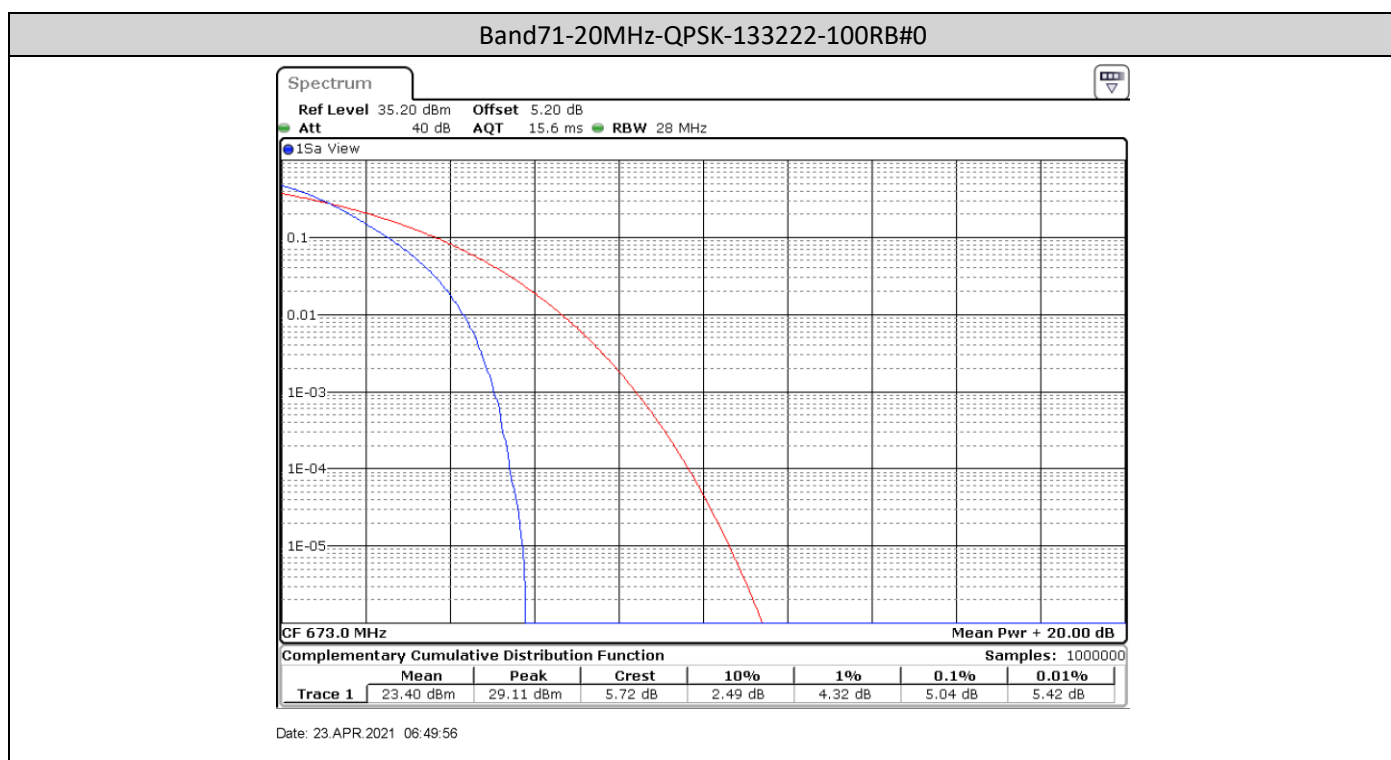


2. Peak-to-Average Ratio (CCDF)

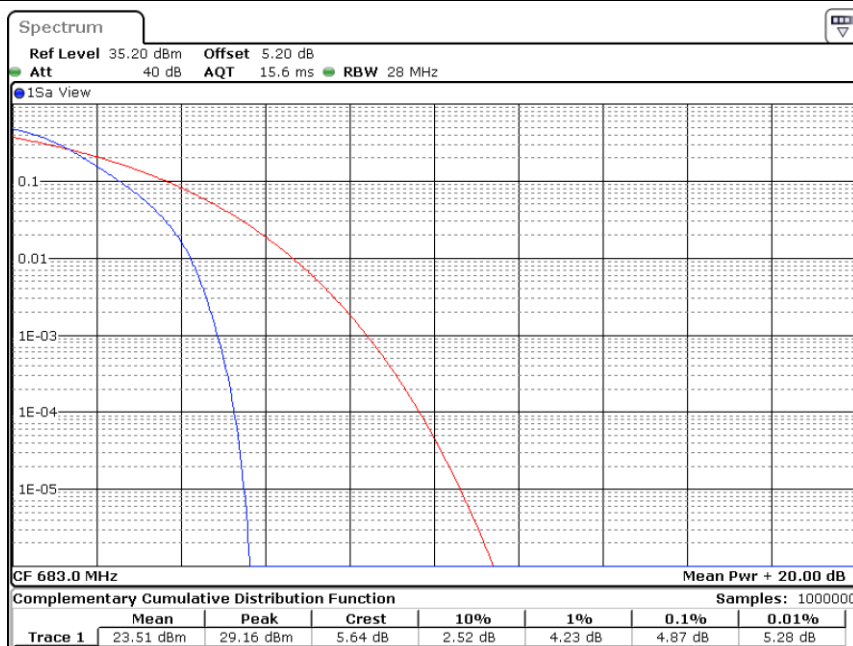
2.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.04	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.87	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	4.84	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	5.97	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.86	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	5.86	13	PASS

2.2. Test Plots

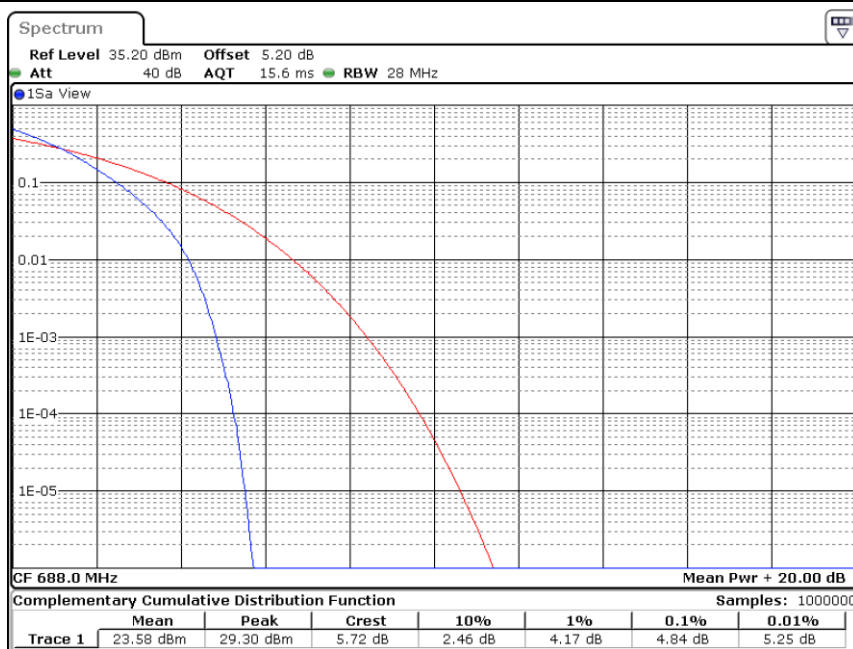


Band71-20MHz-QPSK-133322-100RB#0



Date: 23 APR 2021 06:50:18

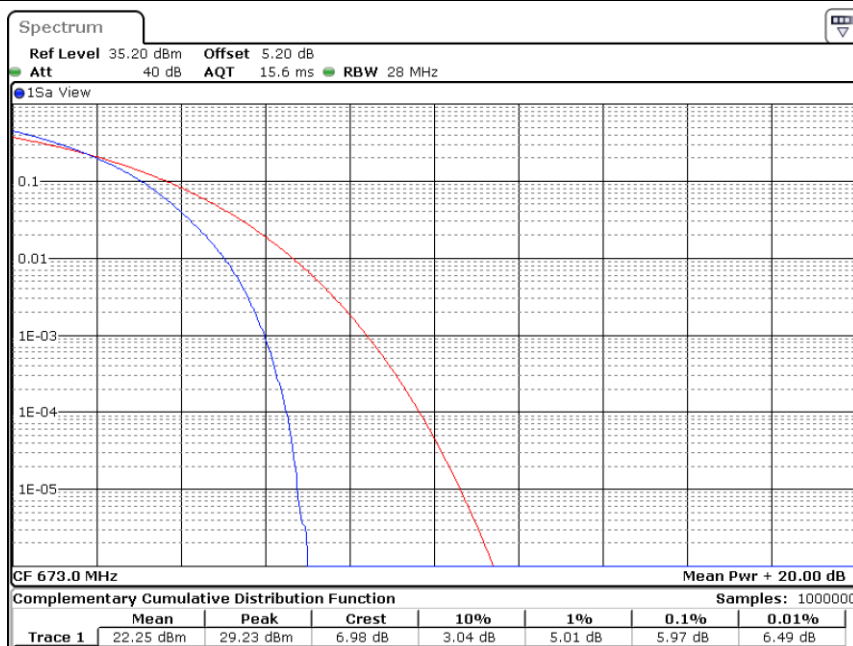
Band71-20MHz-QPSK-133372-100RB#0



Date: 23 APR 2021 06:50:41

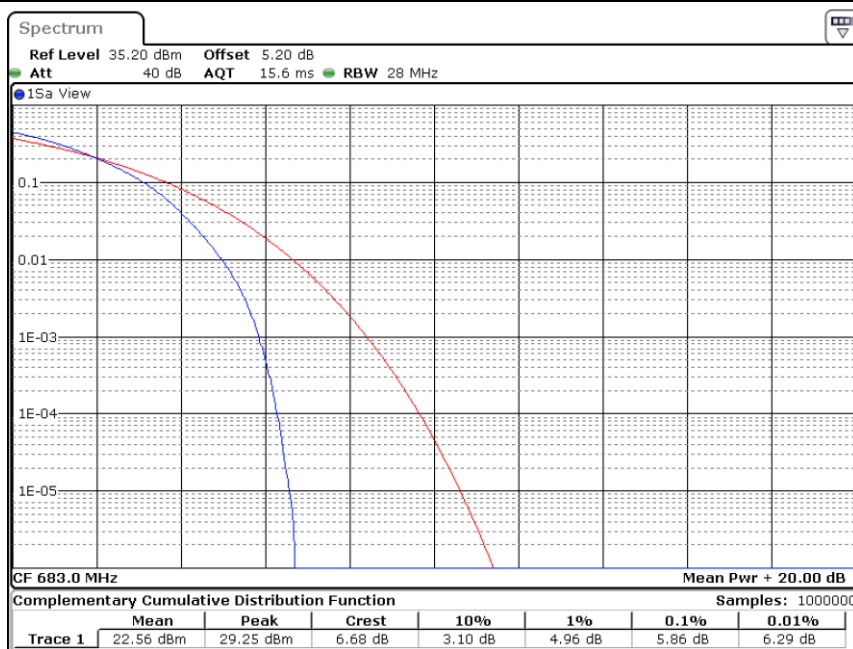


Band71-20MHz-16QAM-133222-100RB#0



Date: 23 APR 2021 06:50:07

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



Date: 23 APR 2021 06:50:29





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



Date: 23.APR.2021 06:50:52

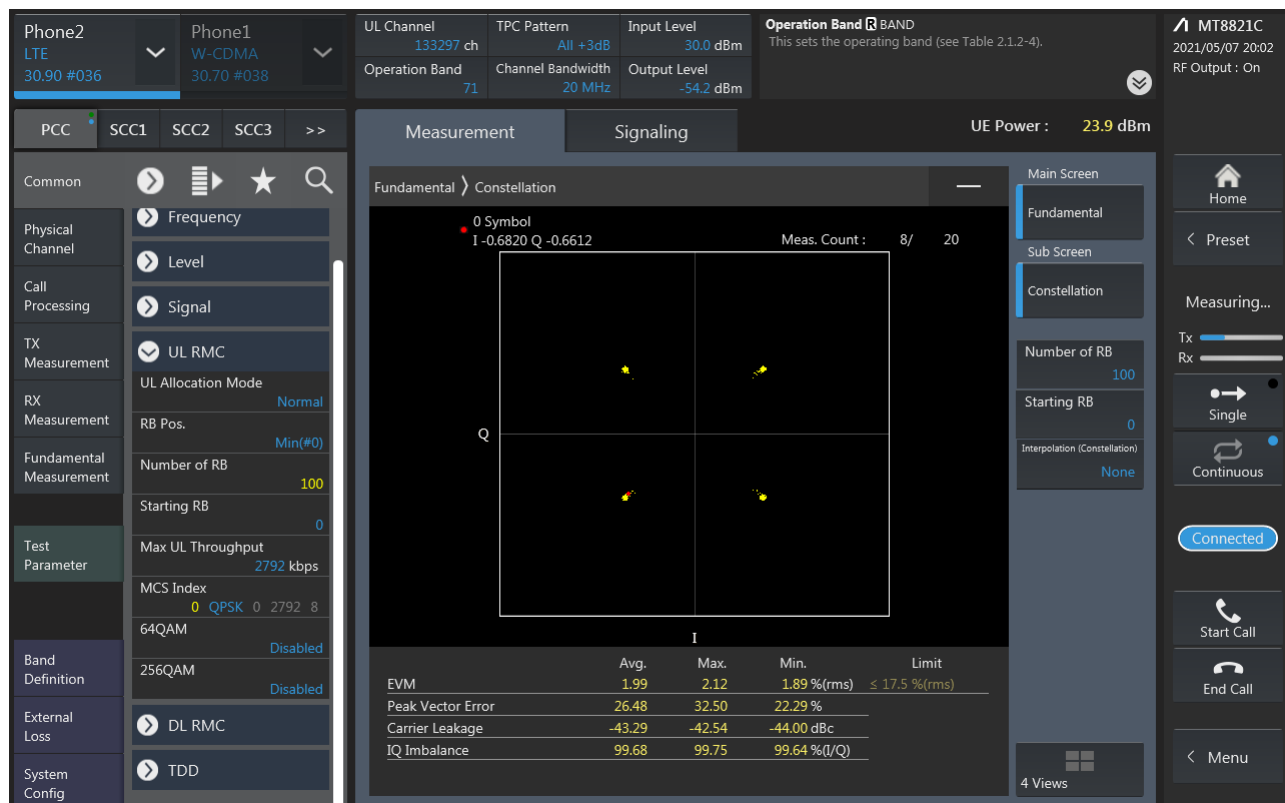
Remark: all modulation and all Bandwidth had been tested, but only the worst configuration was displayed in this report.



3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

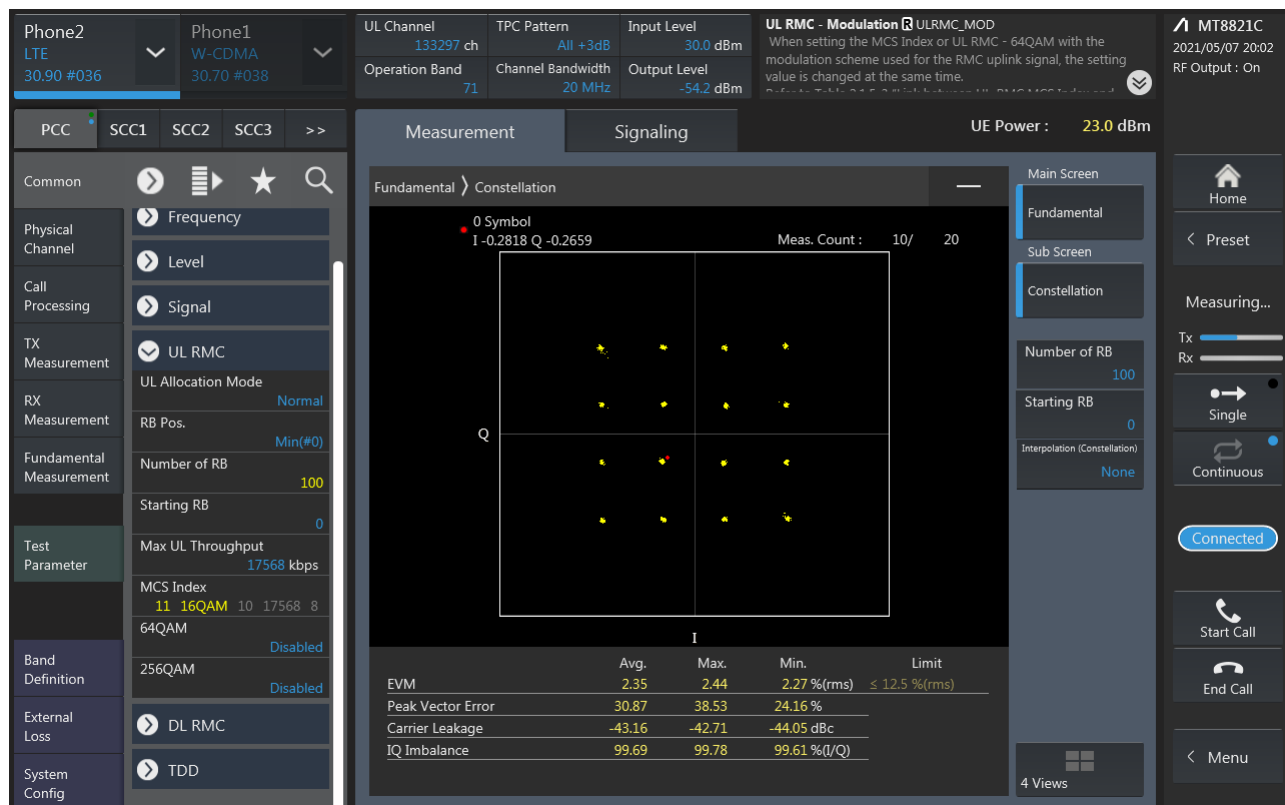
3.1.1. Test Channel = MCH





3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

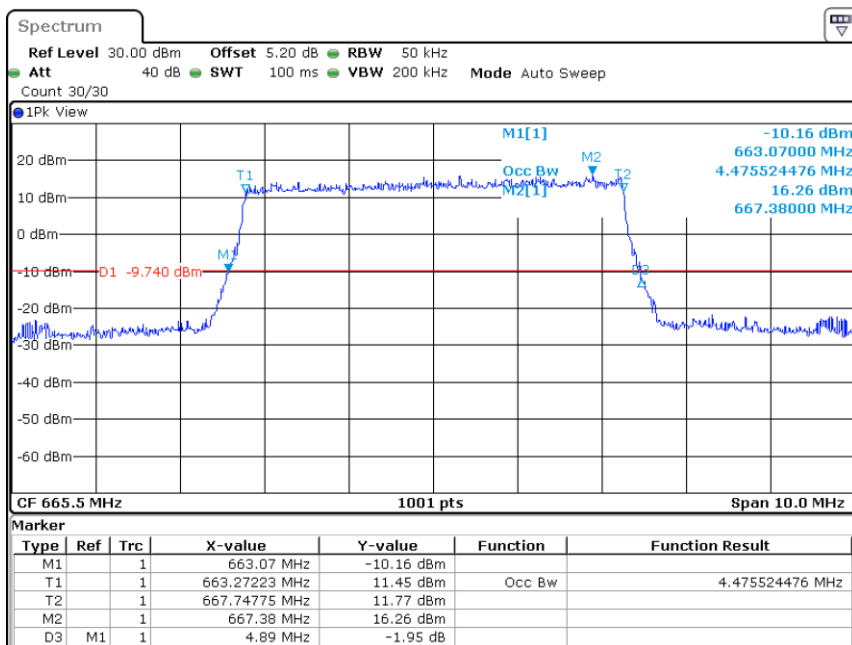
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.476	4.890	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.466	4.910	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.476	4.940	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.476	4.930	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.486	4.950	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.486	4.970	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.871	9.600	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.911	9.740	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.911	9.740	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.891	9.640	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.911	9.740	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.931	9.720	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.367	14.730	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.457	14.790	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.427	14.790	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.367	14.760	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.457	14.700	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.427	14.730	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.782	19.320	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.782	19.200	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.742	19.120	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.822	19.240	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.782	19.320	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.782	19.200	PASS





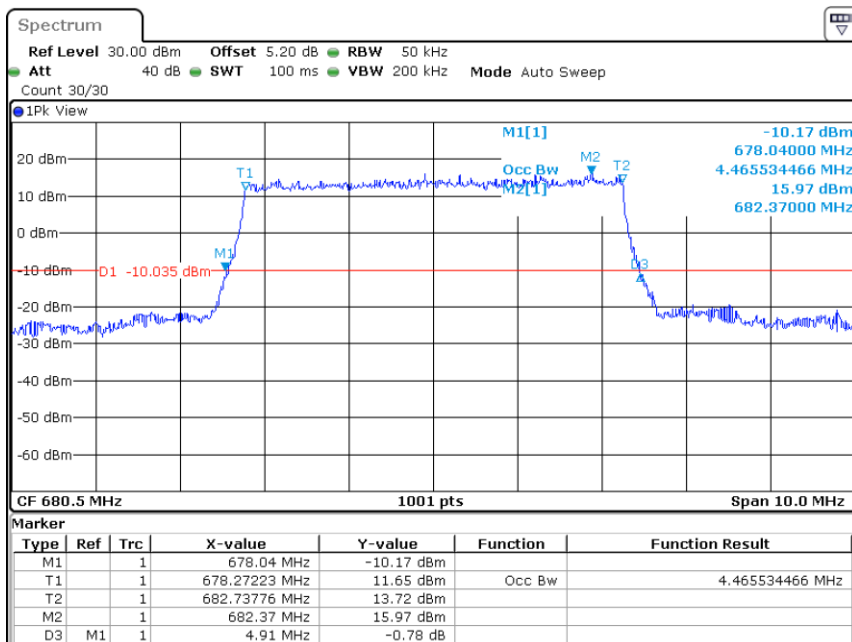
4.2. Test Plots

Band71-5MHz-QPSK-133147-25RB#0-4.476



Date: 23.APR.2021 06:29:11

Band71-5MHz-QPSK-133297-25RB#0-4.466



Date: 23.APR.2021 06:29:37



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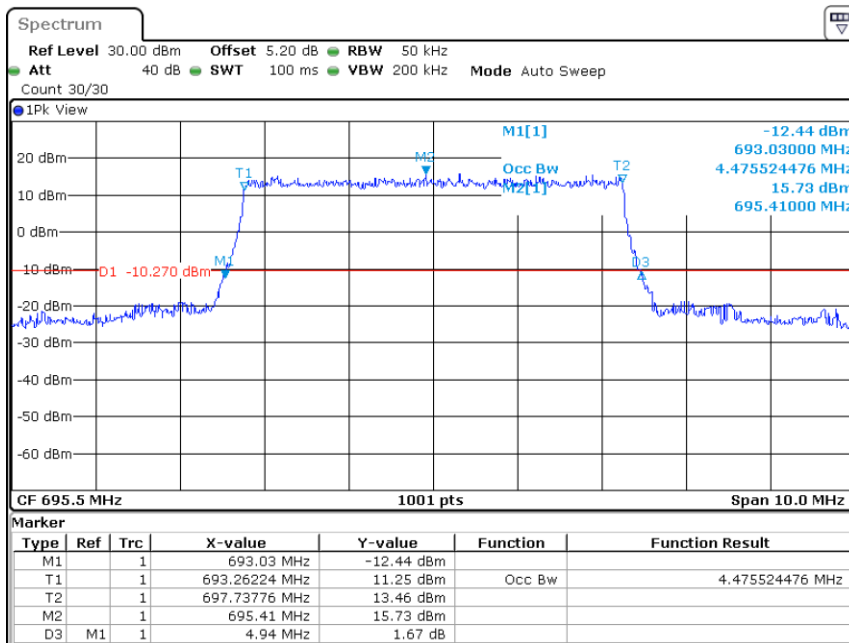
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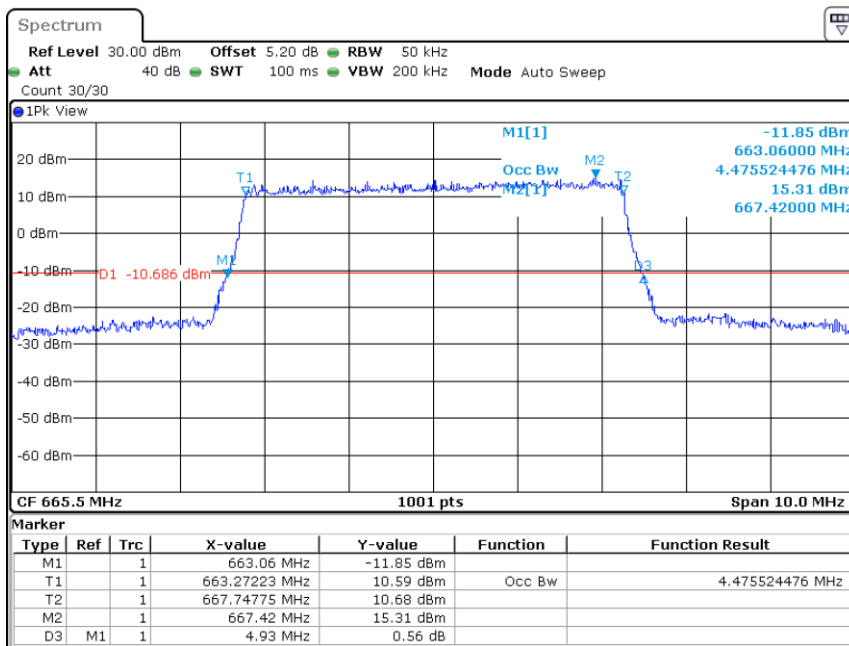


Band71-5MHz-QPSK-133447-25RB#0-4.476



Date: 23.APR 2021 06:30:03

Band71-5MHz-16QAM-133147-25RB#0-4.476



Date: 23.APR 2021 06:29:24

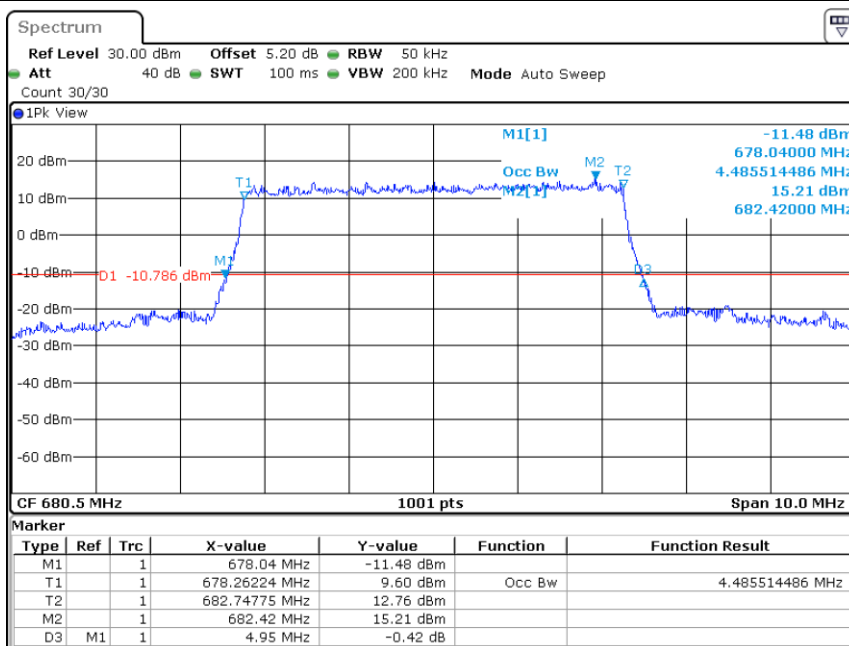


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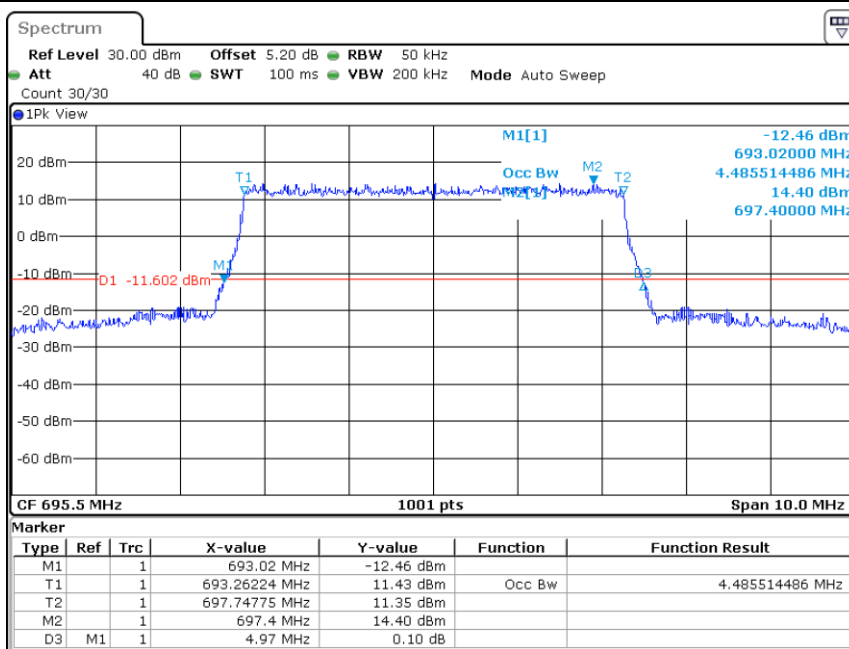


Band71-5MHz-16QAM-133297-25RB#0-4.486



Date: 23.APR.2021 06:29:50

Band71-5MHz-16QAM-133447-25RB#0-4.486



Date: 23.APR.2021 06:30:16



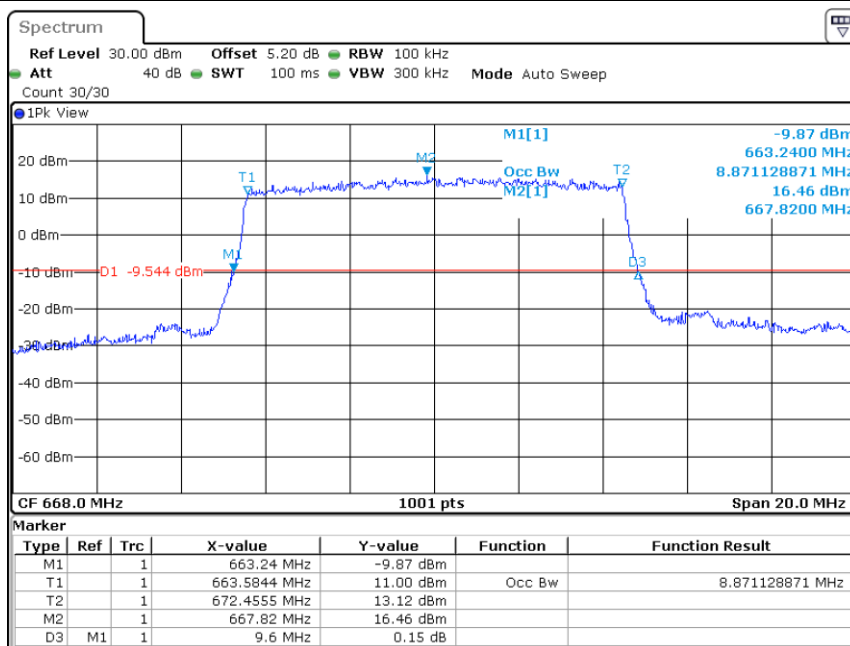
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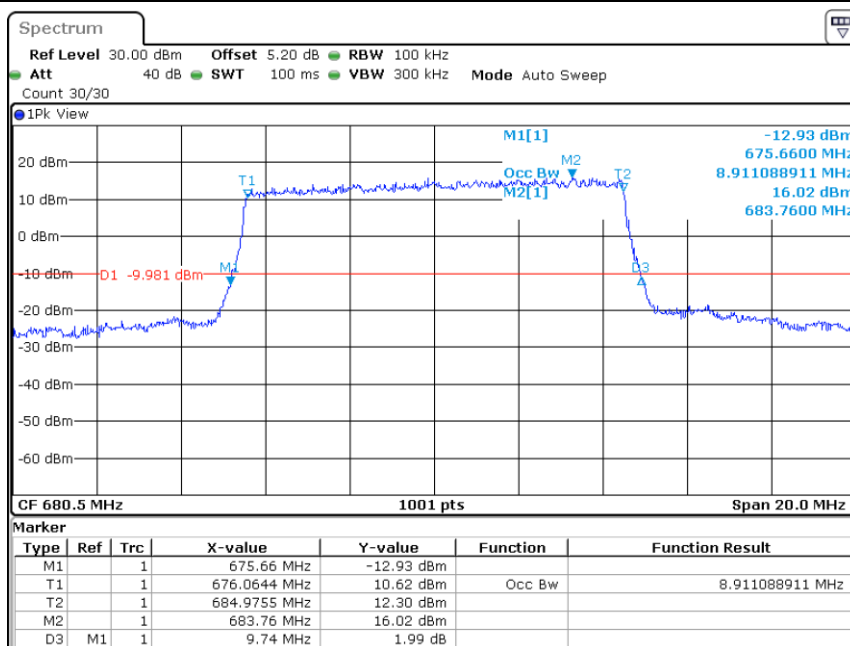


Band71-10MHz-QPSK-133172-50RB#0-8.871



Date: 23.APR.2021 06:30:34

Band71-10MHz-QPSK-133297-50RB#0-8.911



Date: 23.APR.2021 06:31:00

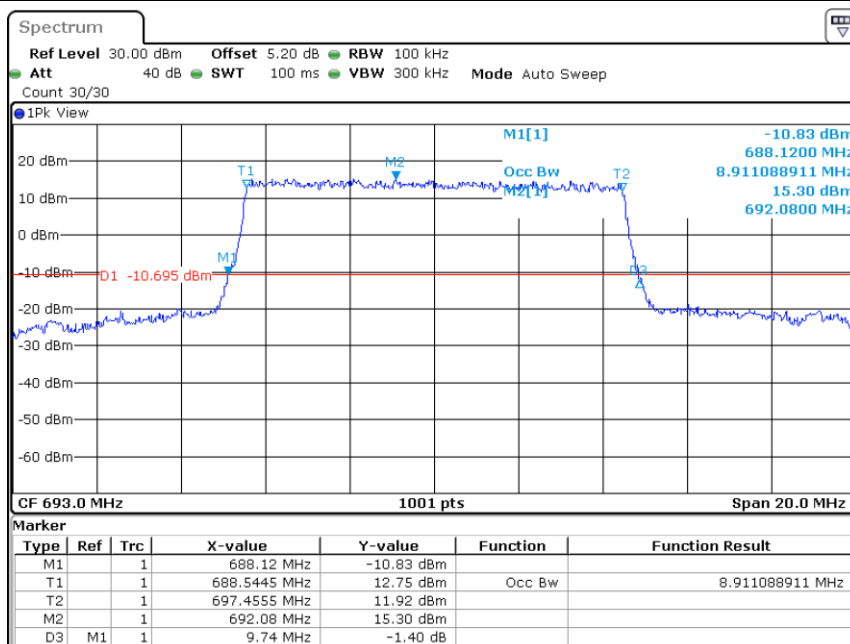


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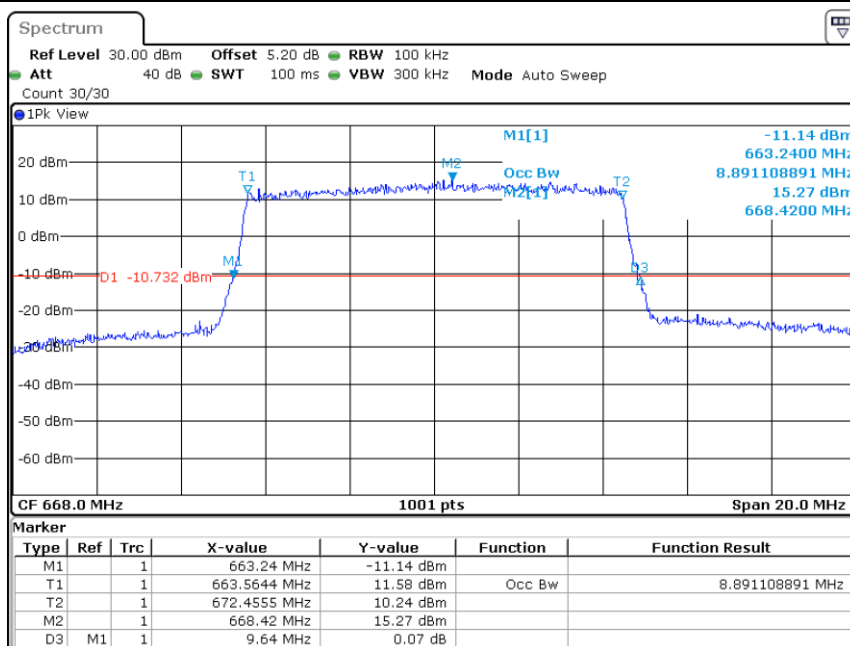


Band71-10MHz-QPSK-133422-50RB#0-8.911



Date: 23.APR 2021 06:31:26

Band71-10MHz-16QAM-133172-50RB#0-8.891

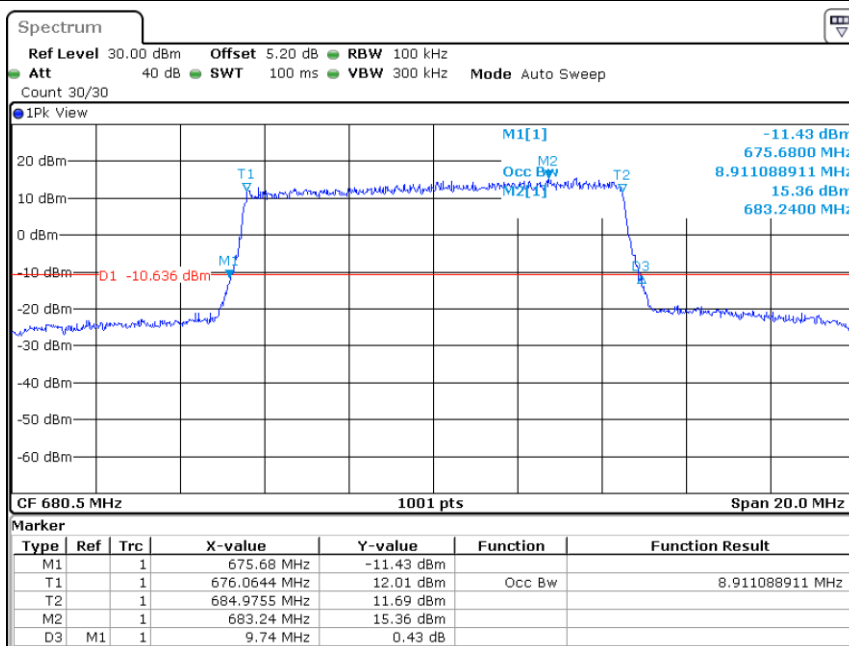


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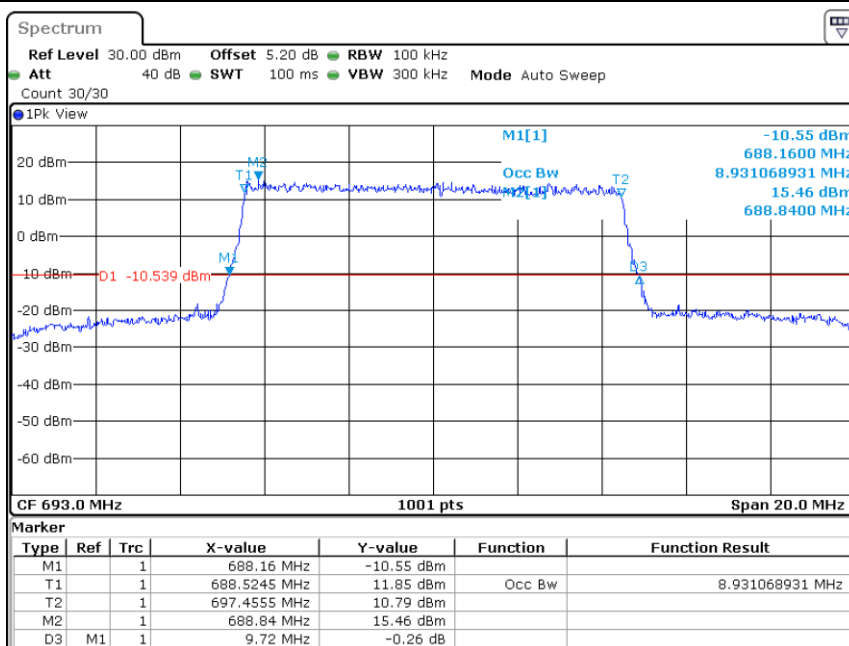


Band71-10MHz-16QAM-133297-50RB#0-8.911



Date: 23.APR 2021 06:31:13

Band71-10MHz-16QAM-133422-50RB#0-8.931



Date: 23.APR 2021 06:31:38



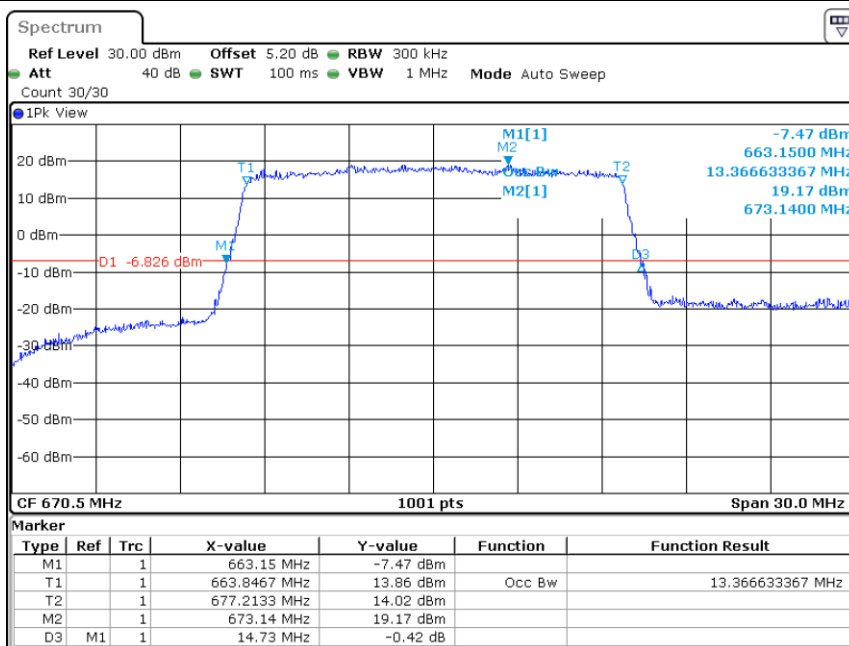
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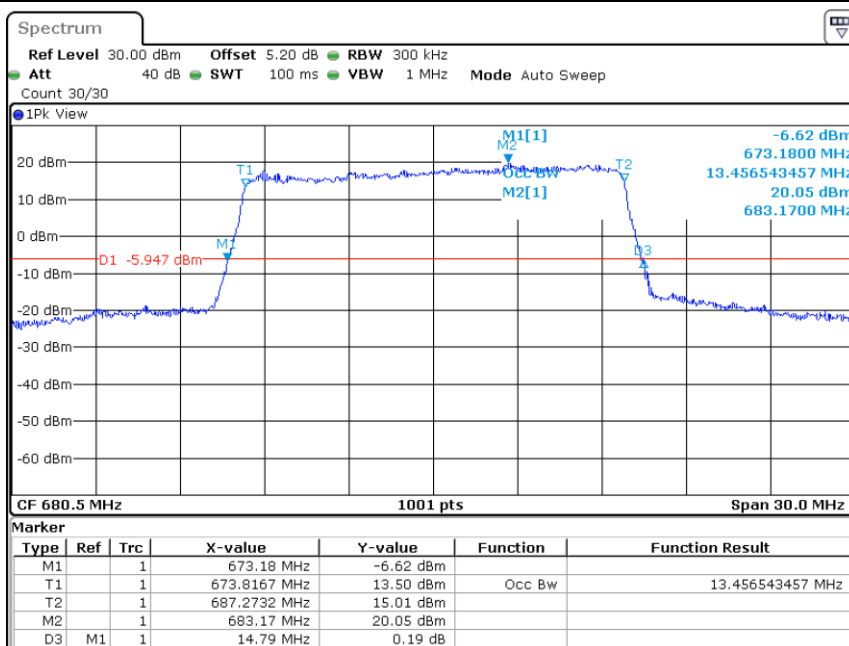


Band71-15MHz-QPSK-133197-75RB#0-13.367



Date: 23.APR 2021 06:31:57

Band71-15MHz-QPSK-133297-75RB#0-13.457



Date: 23.APR 2021 06:32:23



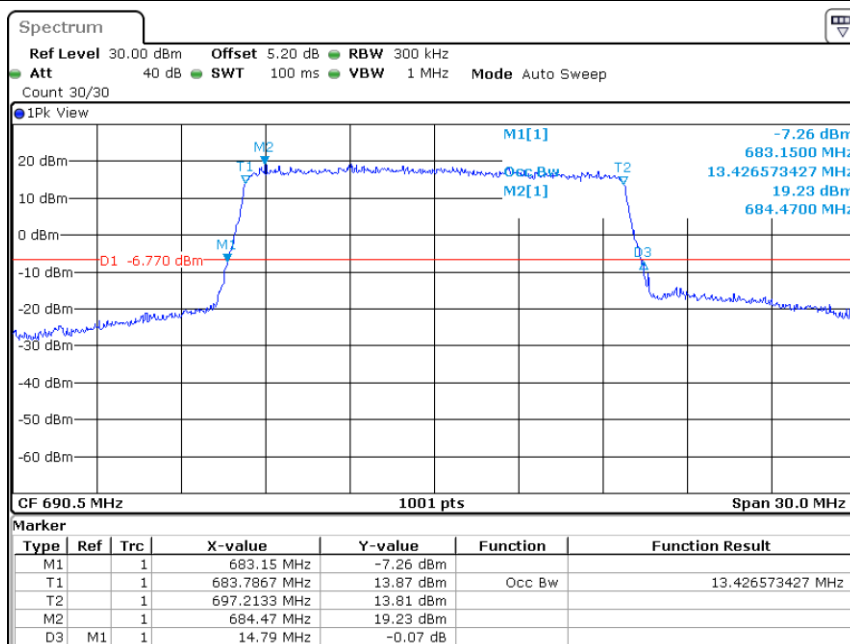
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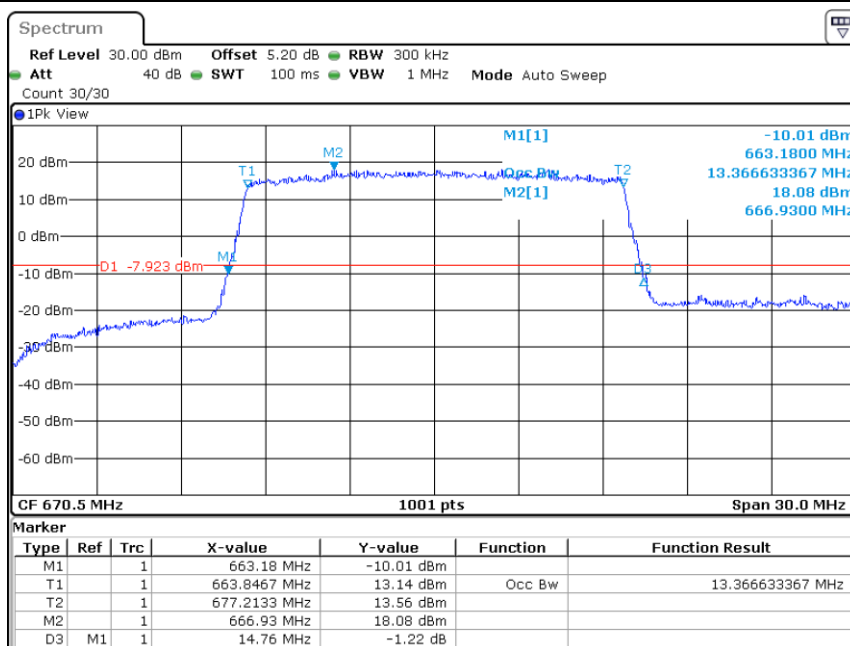


Band71-15MHz-QPSK-133397-75RB#0-13.427



Date: 23.APR 2021 06:32:49

Band71-15MHz-16QAM-133197-75RB#0-13.367



Date: 23.APR 2021 06:32:10

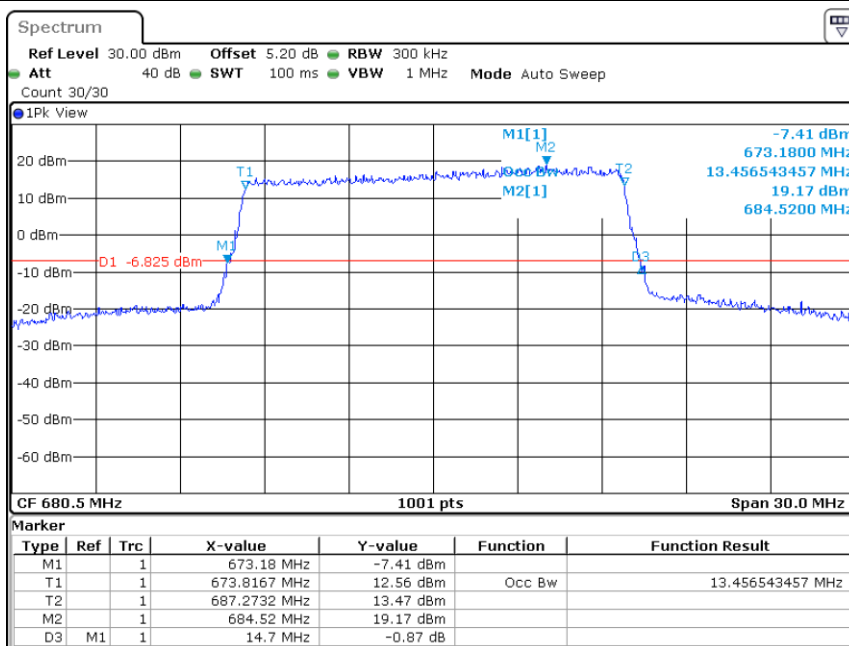


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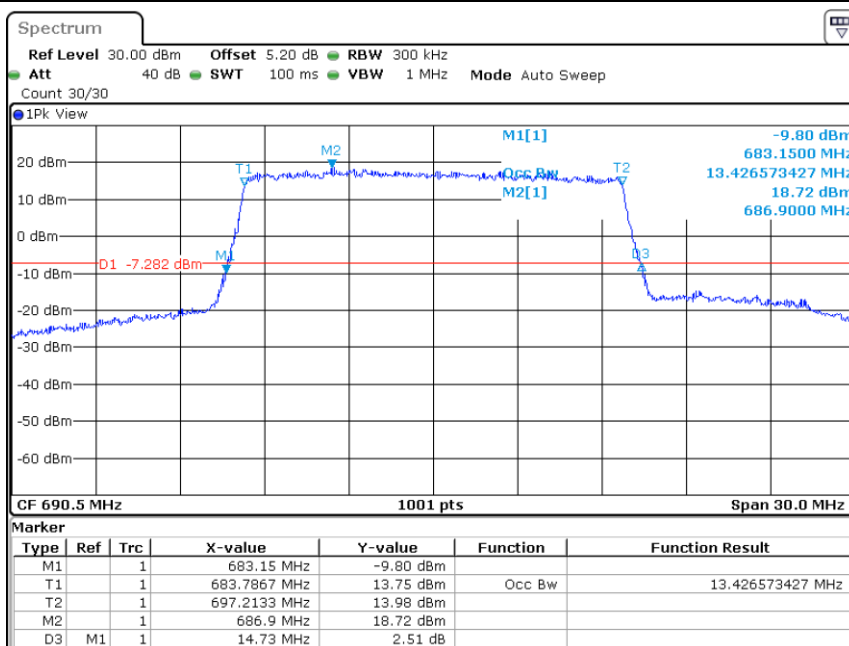


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Date: 23.APR 2021 06:32:35

Band71-15MHz-16QAM-133397-75RB#0-13.427



Date: 23.APR 2021 06:33:01



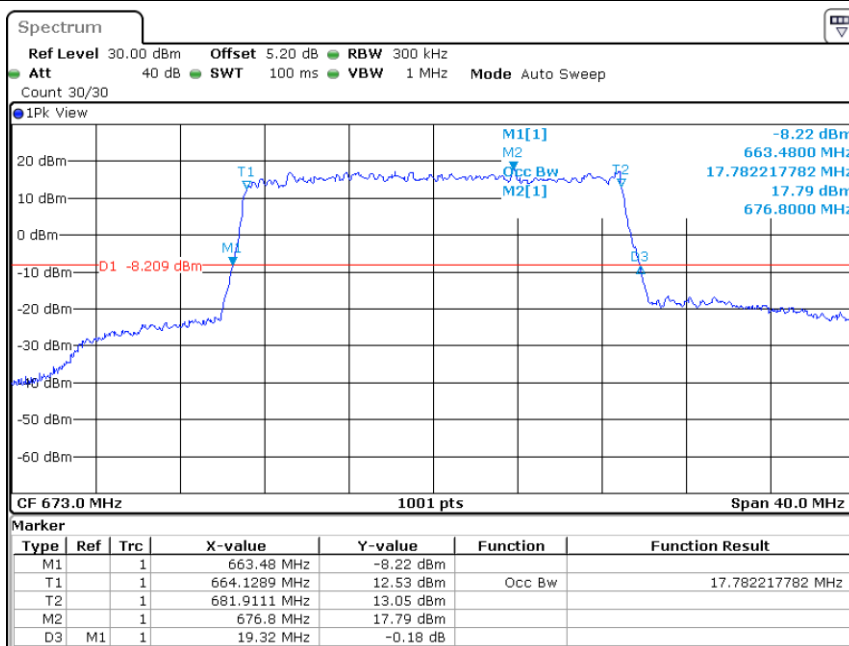
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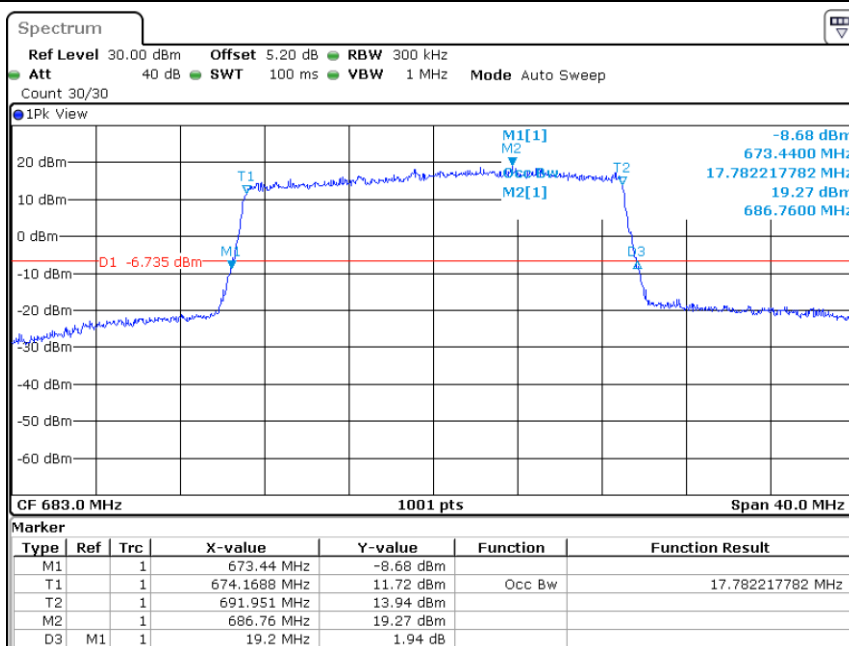


Band71-20MHz-QPSK-133222-100RB#0-17.782



Date: 23.APR 2021 06:33:20

Band71-20MHz-QPSK-133322-100RB#0-17.782



Date: 23.APR 2021 06:33:46



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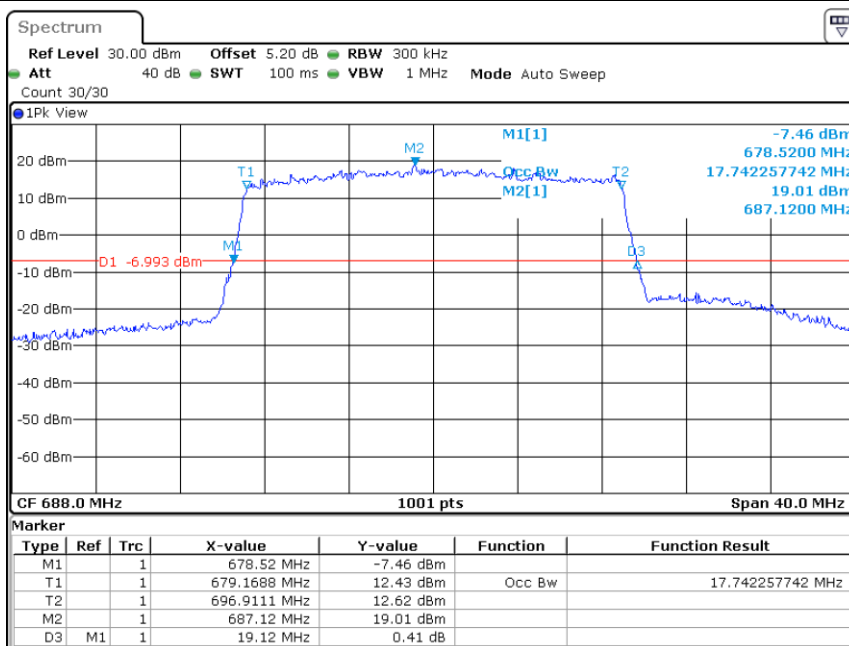
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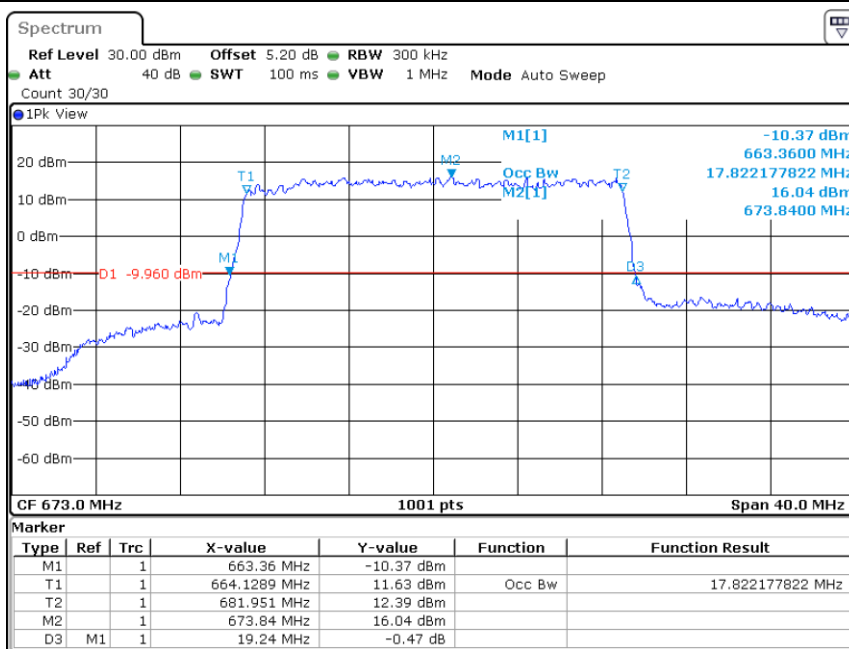


Band71-20MHz-QPSK-133372-100RB#0-17.742



Date: 23.APR 2021 06:34:12

Band71-20MHz-16QAM-133222-100RB#0-17.822



Date: 23.APR 2021 06:33:33

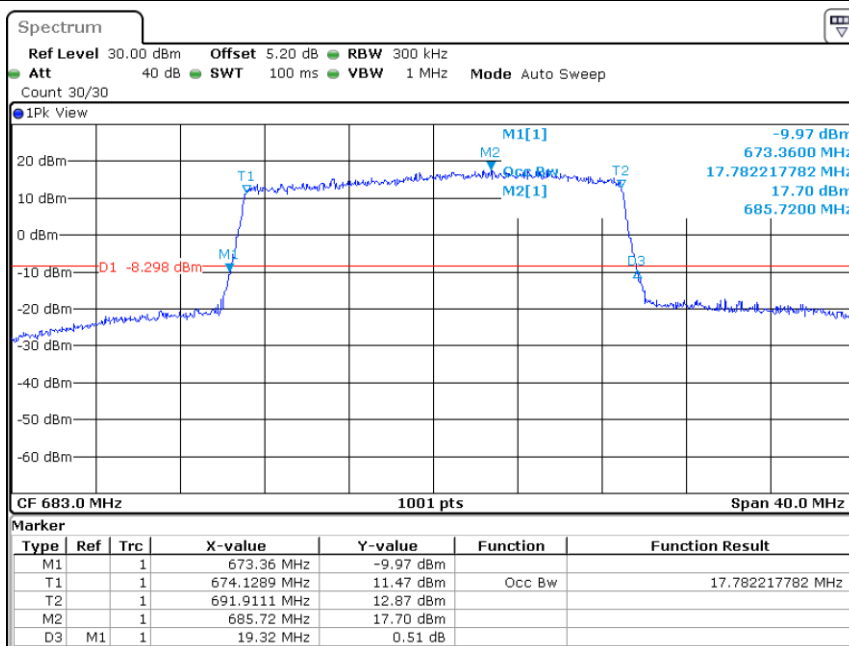


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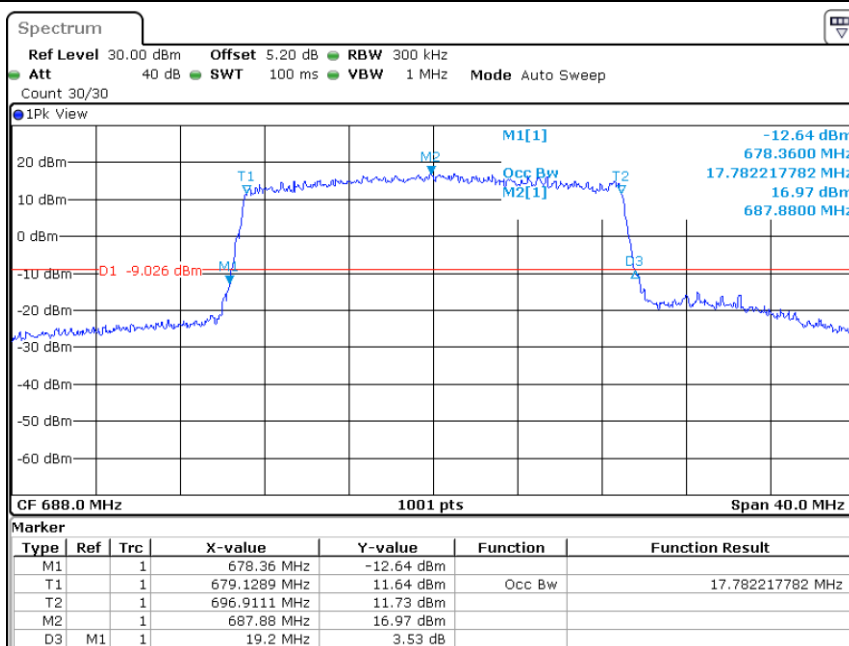


Band71-20MHz-16QAM-133322-100RB#0-17.782



Date: 23.APR 2021 06:33:59

Band71-20MHz-16QAM-133372-100RB#0-17.782



Date: 23.APR 2021 06:34:24



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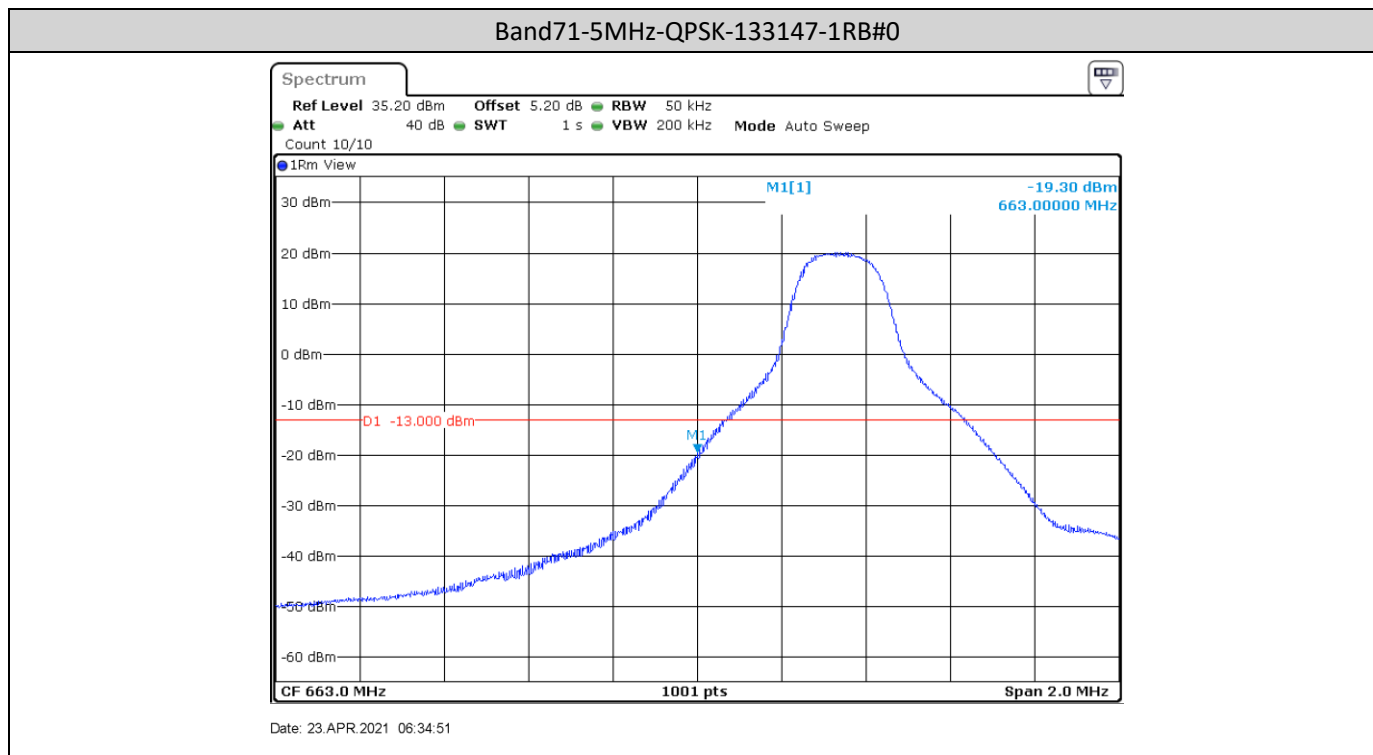
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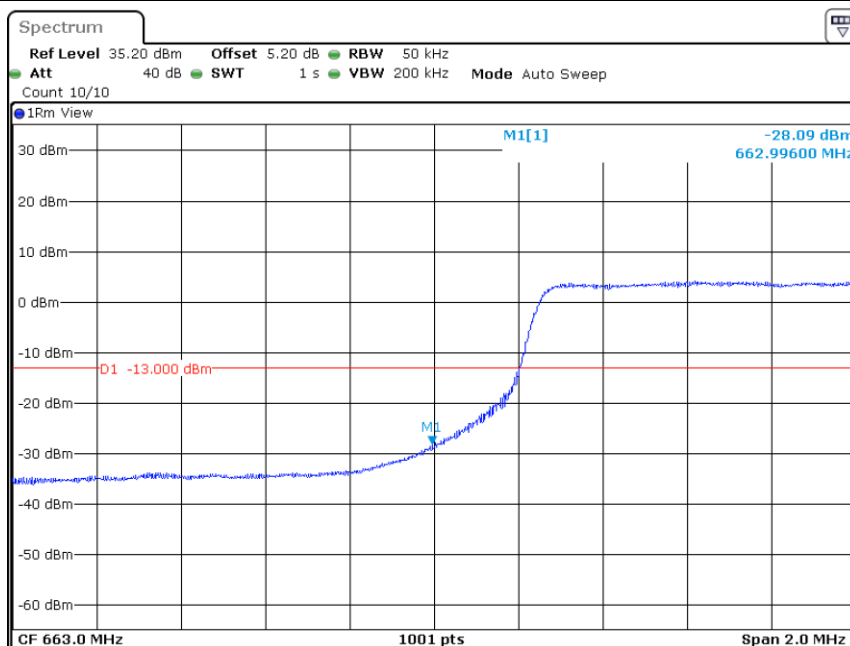
5. Band Edge Compliance

5.1. Test Plots



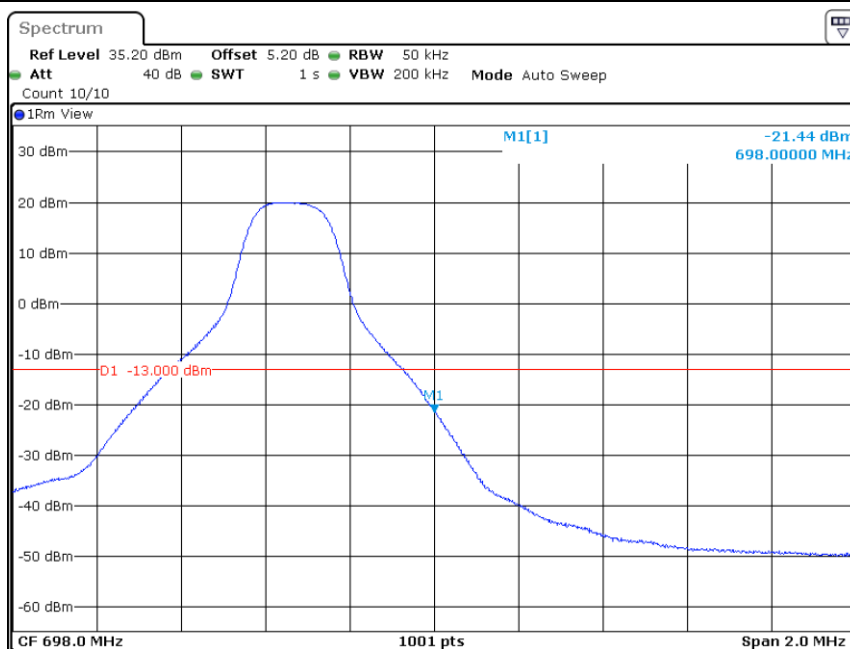


Band71-5MHz-QPSK-133147-25RB#0



Date: 23.APR.2021 06:35:32

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



Date: 23.APR.2021 06:36:18

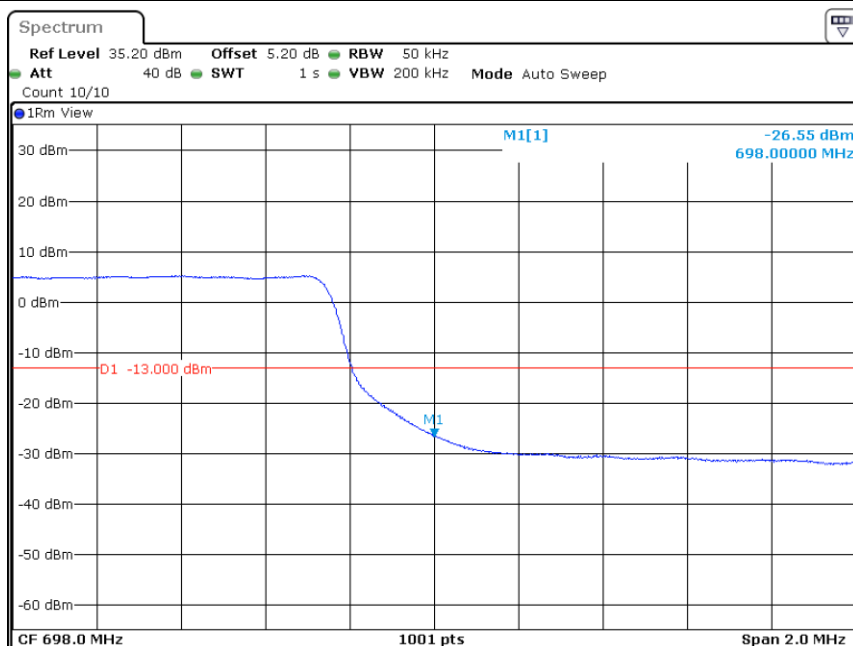


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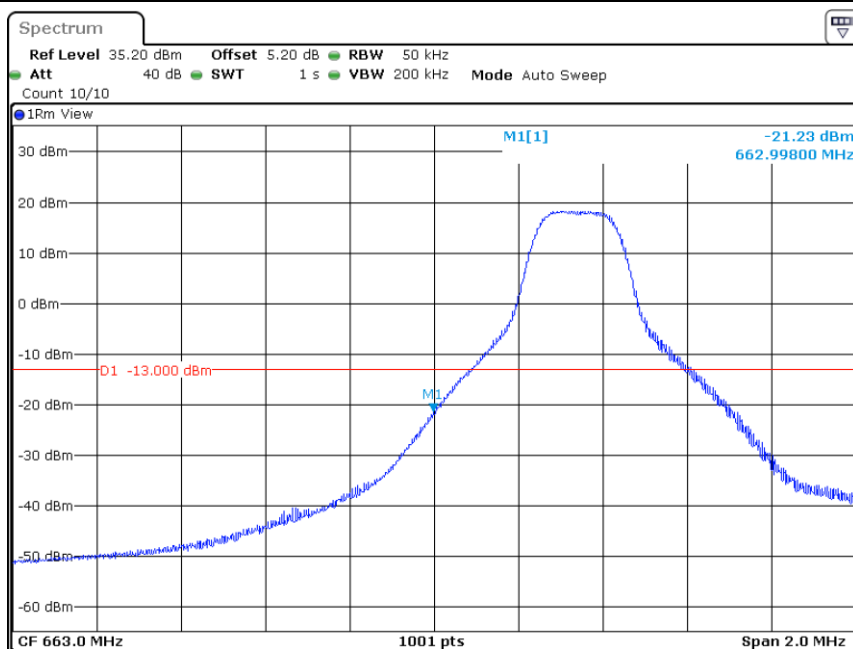
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Band71-5MHz-QPSK-133447-25RB#0



Date: 23 APR 2021 06:36:59

Band71-5MHz-16QAM-133147-1RB#0



Date: 23 APR 2021 06:35:11



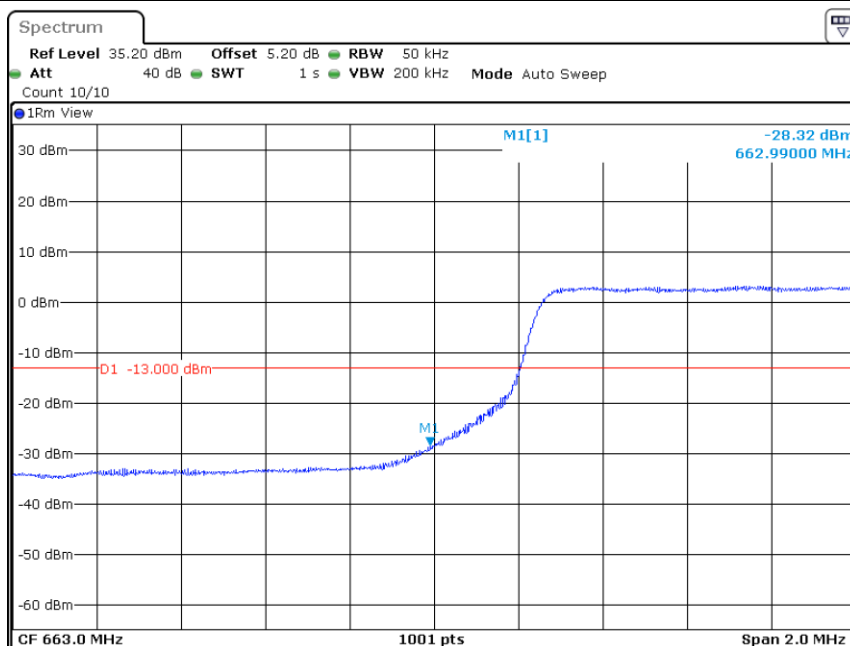
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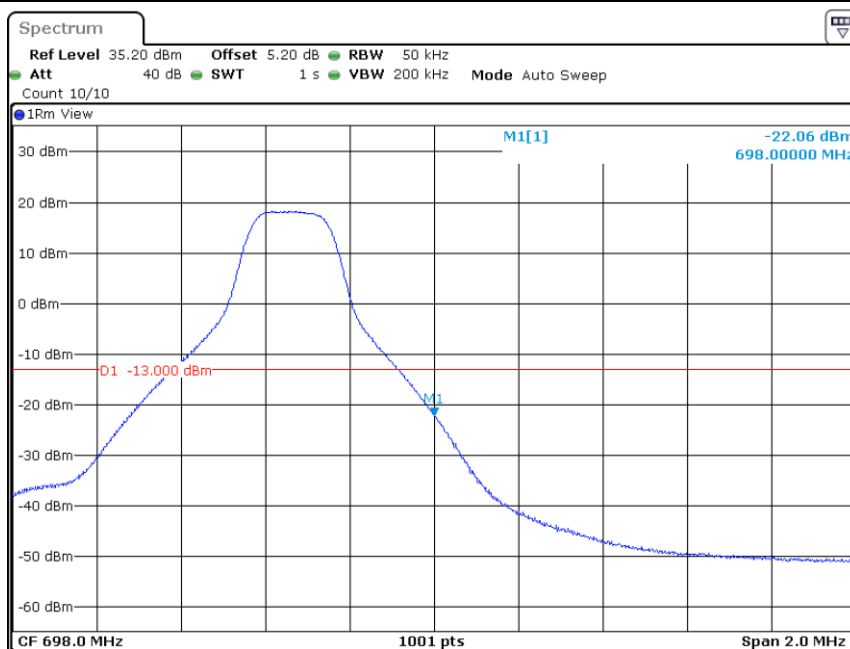


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Date: 23.APR.2021 06:35:53

Band71-5MHz-16QAM-133447-1RB#24



Date: 23.APR.2021 06:36:38



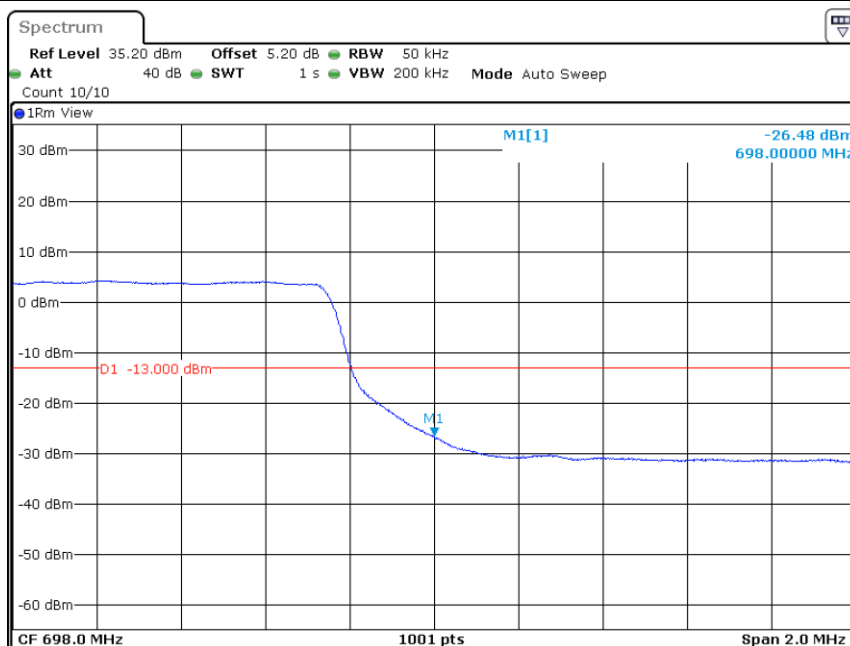
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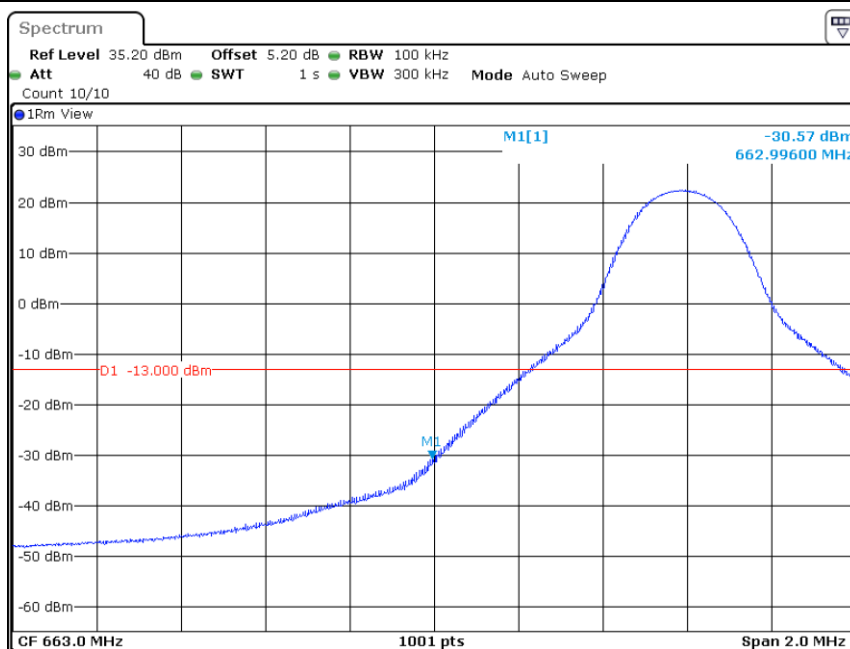


Band71-5MHz-16QAM-133447-25RB#0



Date: 23.APR.2021 06:37:19

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



Date: 23.APR.2021 06:37:46



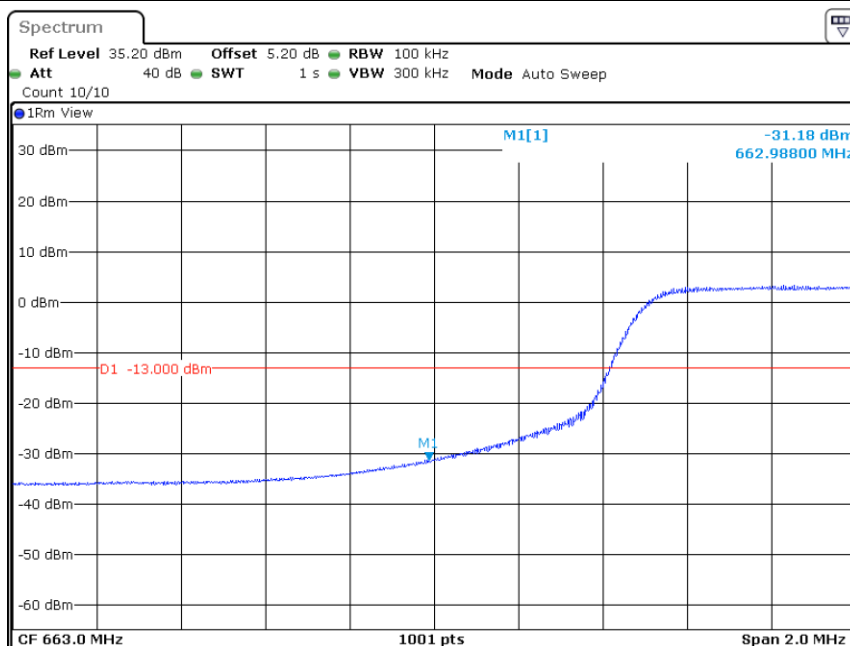
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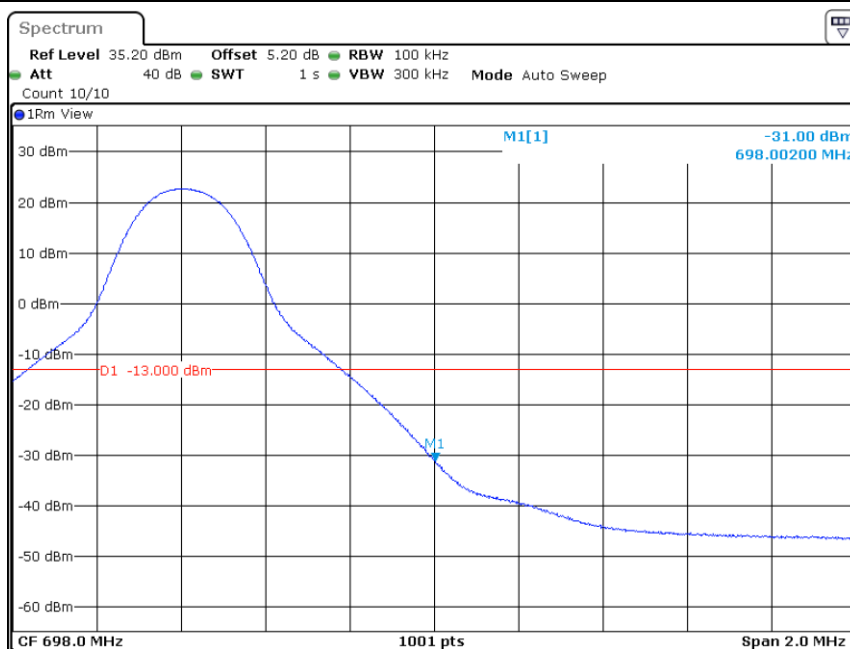


Band71-10MHz-QPSK-133172-50RB#0



Date: 23.APR.2021 06:38:27

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



Date: 23.APR.2021 06:39:13

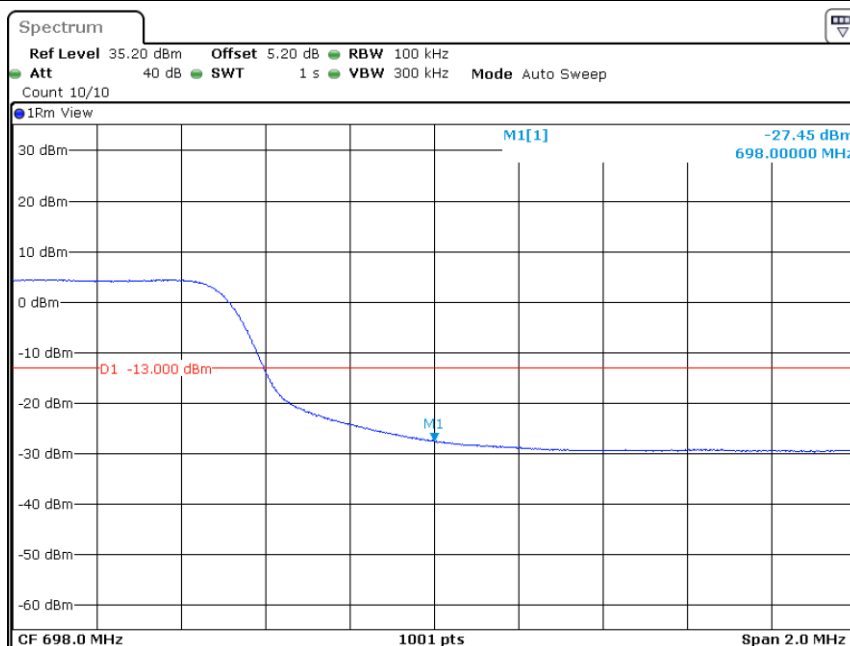


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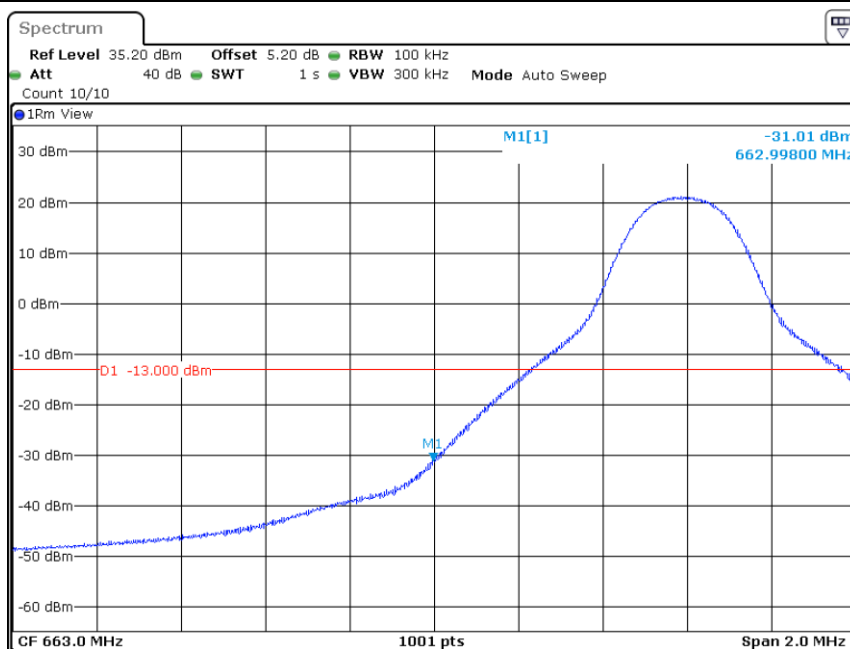


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Date: 23.APR.2021 06:39:54

Band71-10MHz-16QAM-133172-1RB#0

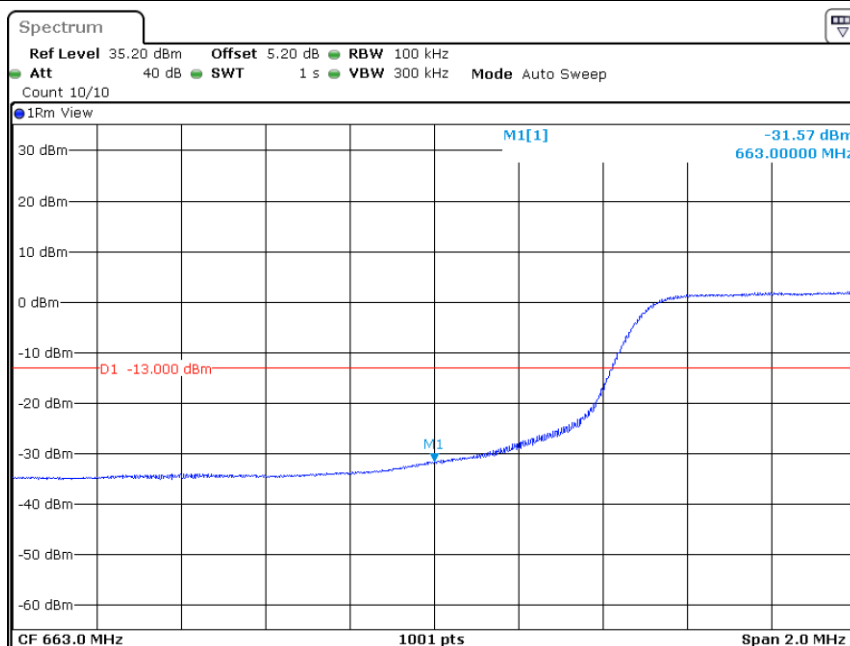


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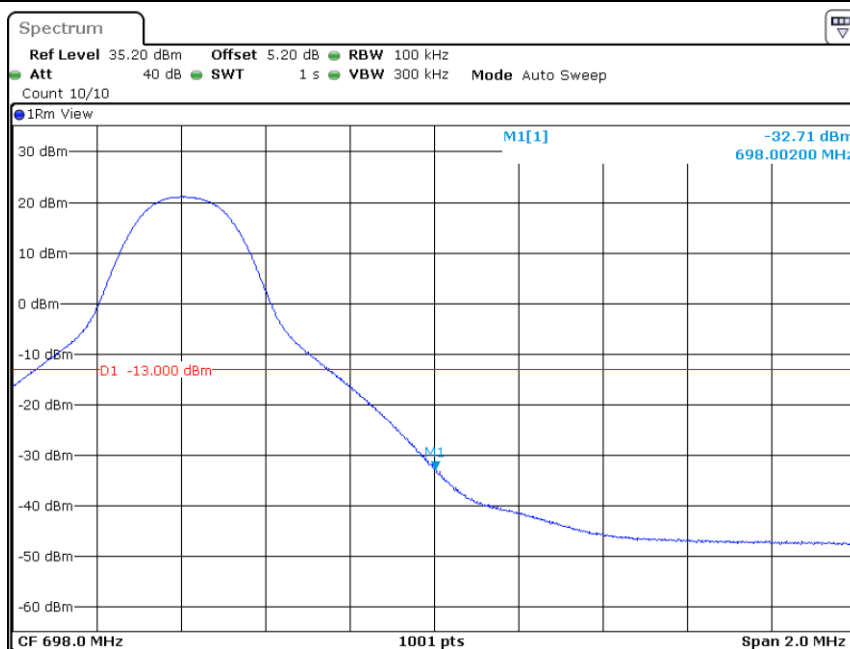


Band71-10MHz-16QAM-133172-50RB#0



Date: 23.APR.2021 06:38:48

Band71-10MHz-16QAM-133422-1RB#49



Date: 23.APR.2021 06:39:33



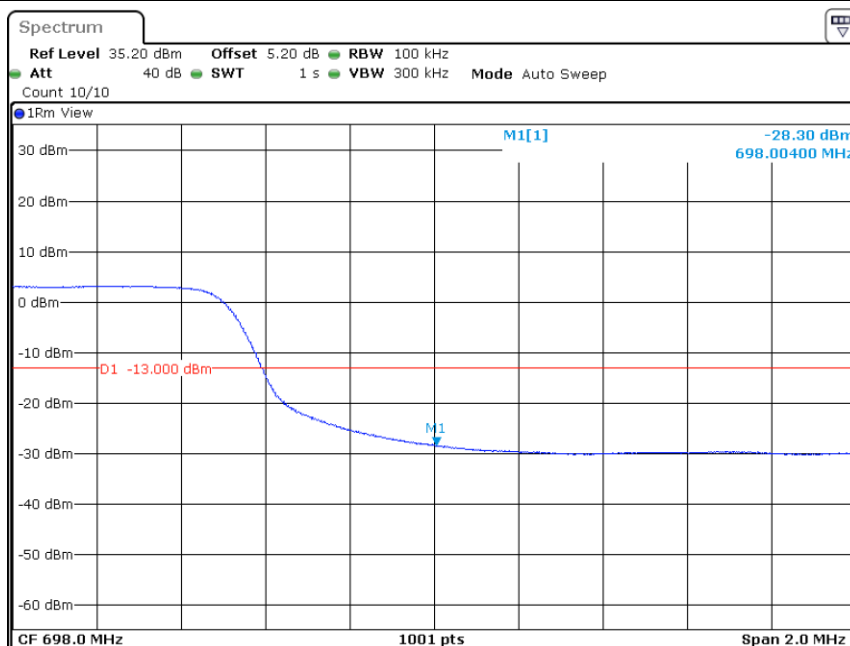
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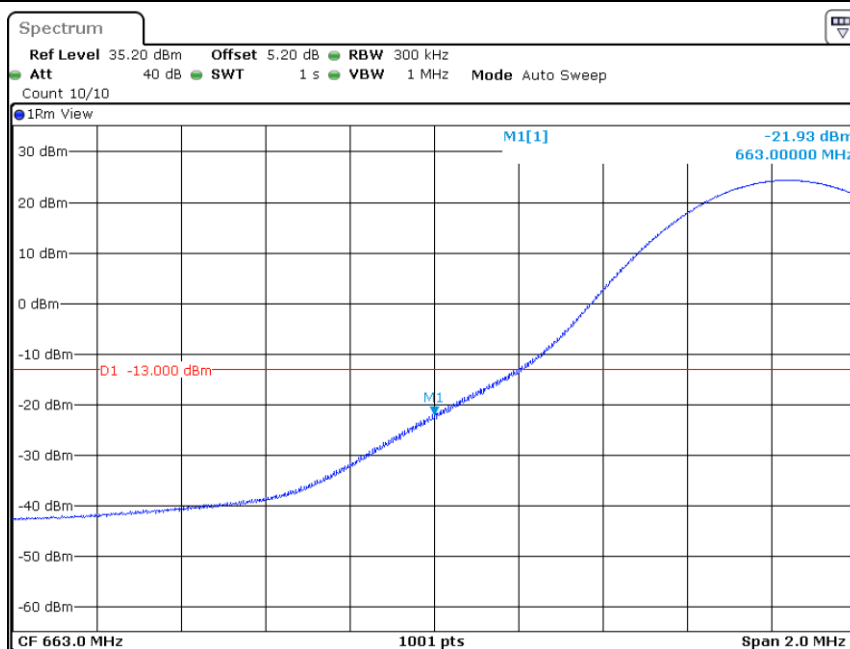


Band71-10MHz-16QAM-133422-50RB#0



Date: 23.APR.2021 06:40:14

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



Date: 23.APR.2021 06:40:41



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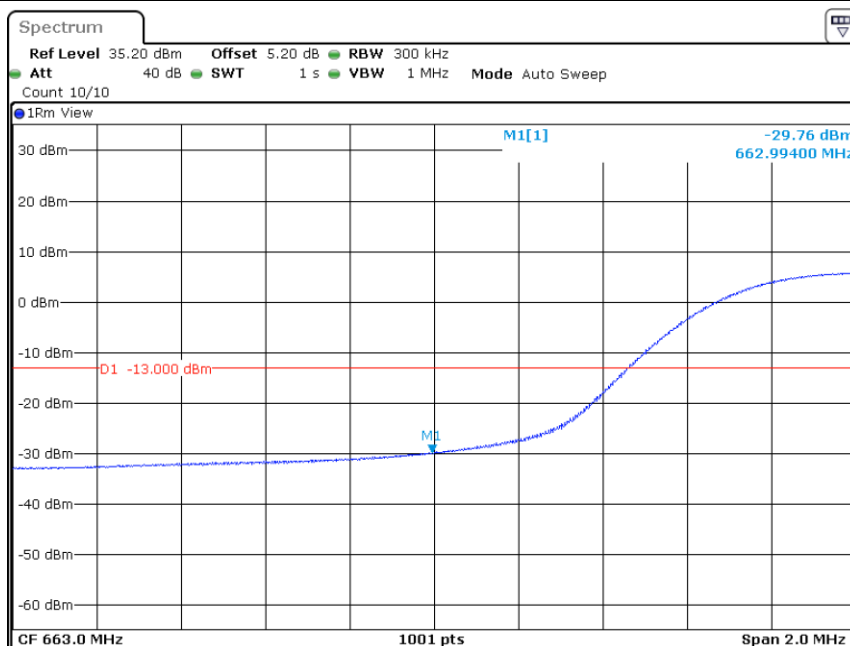
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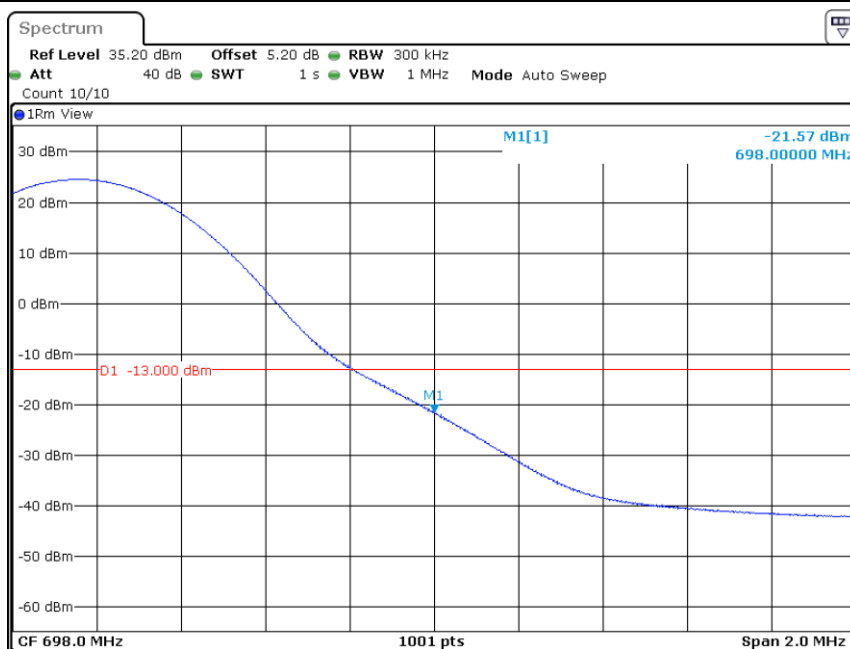


Band71-15MHz-QPSK-133197-75RB#0



Date: 23.APR.2021 06:41:22

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



Date: 23.APR.2021 06:42:07

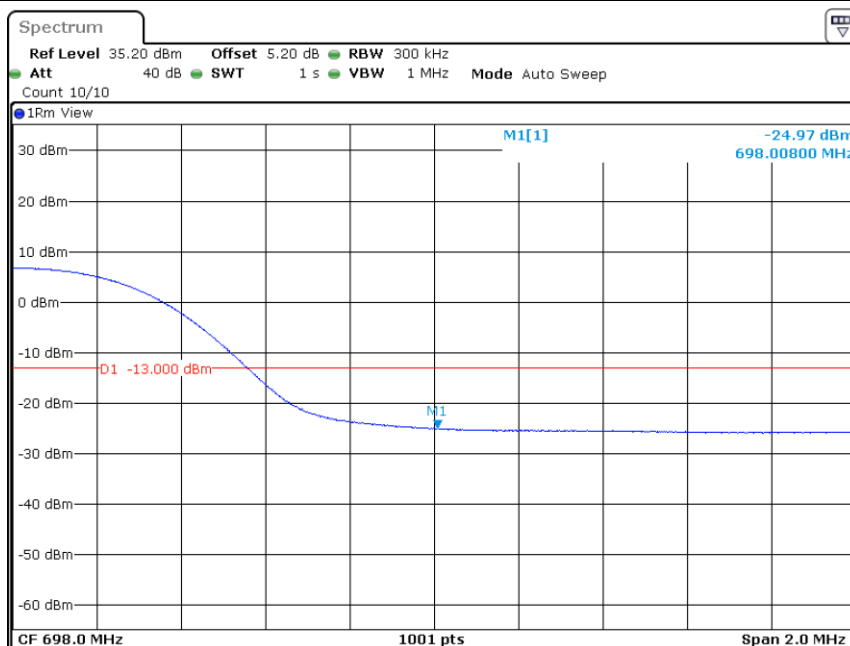


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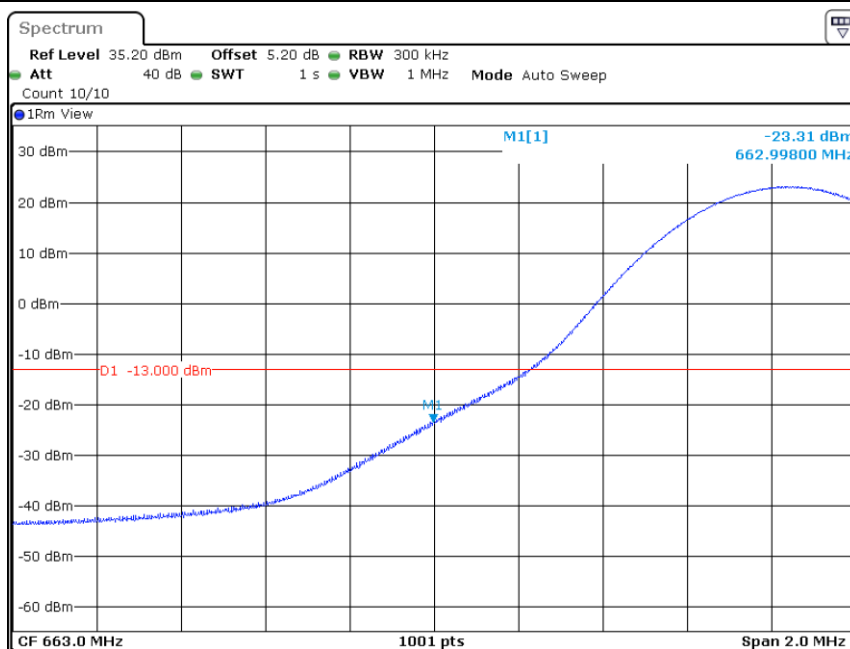


Band71-15MHz-QPSK-133397-75RB#0



Date: 23.APR.2021 06:42:49

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



Date: 23.APR.2021 06:41:01



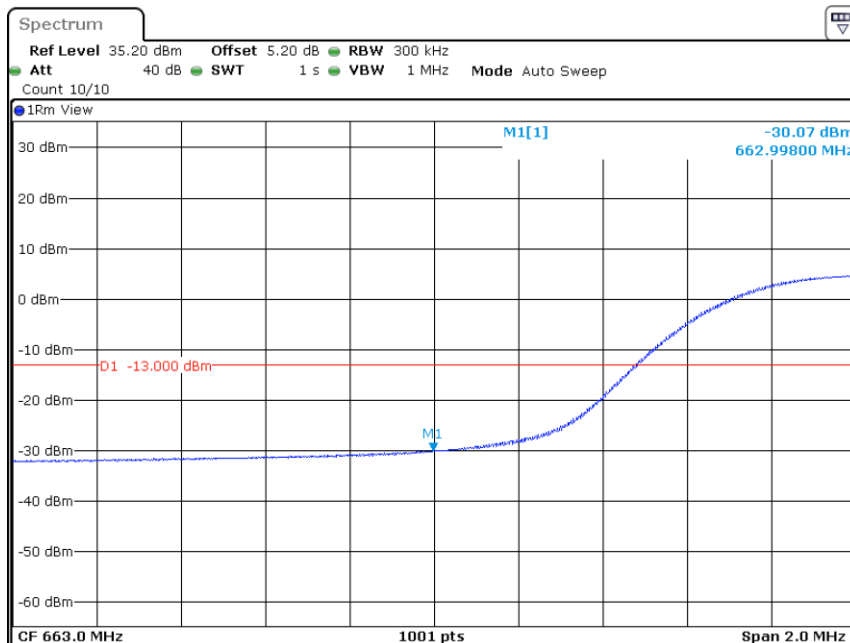
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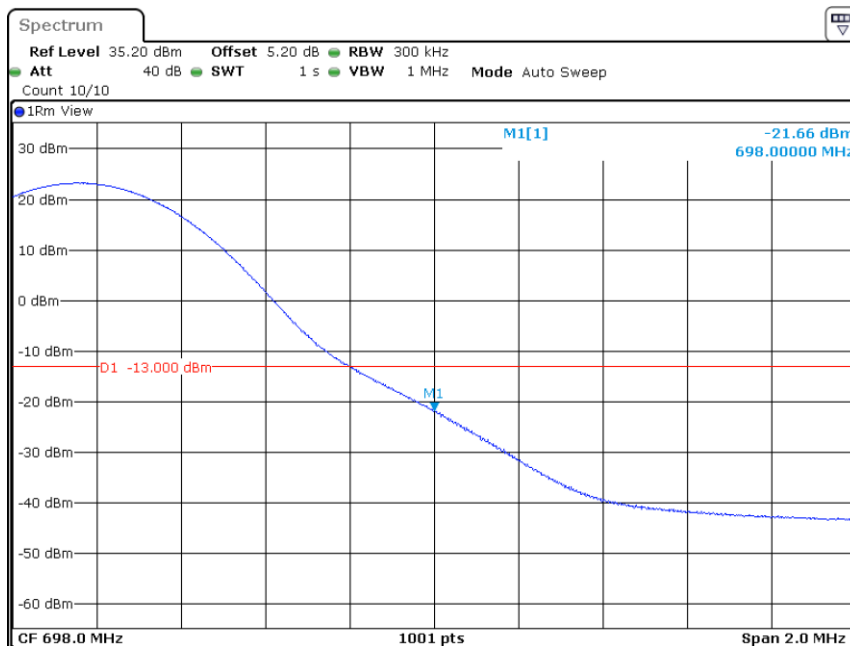


Band71-15MHz-16QAM-133197-75RB#0



Date: 23.APR.2021 06:41:43

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



Date: 23.APR.2021 06:42:28



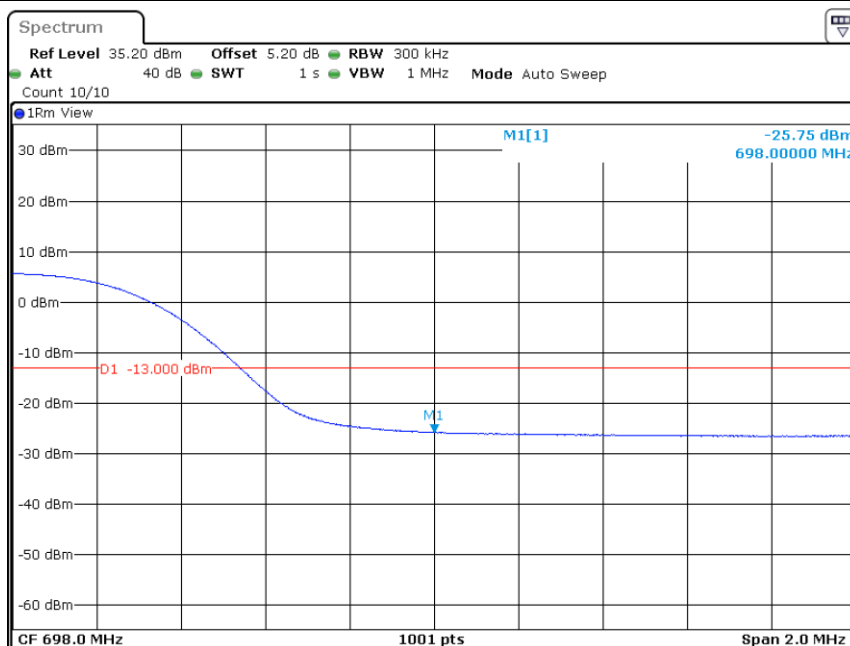
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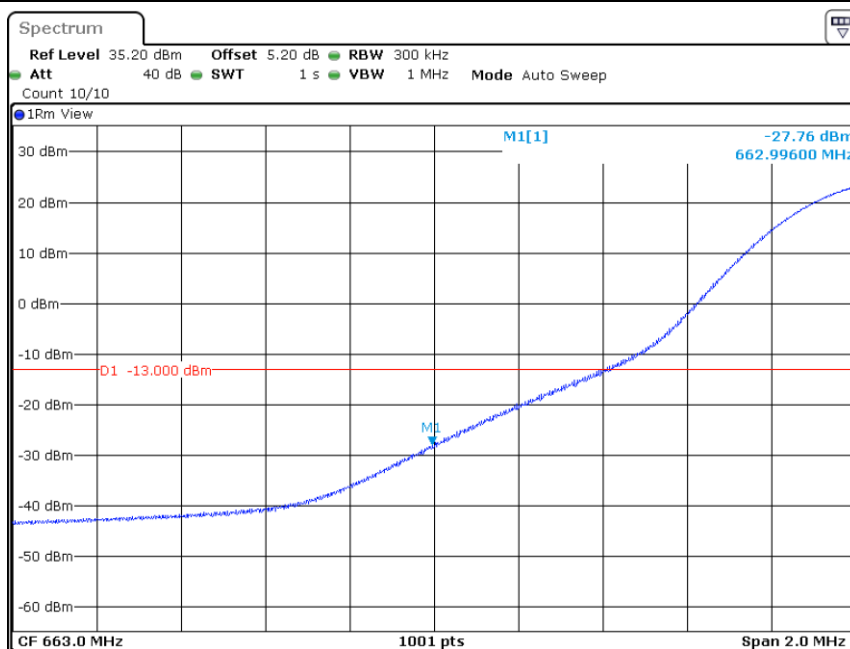


Band71-15MHz-16QAM-133397-75RB#0



Date: 23.APR.2021 06:43:09

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



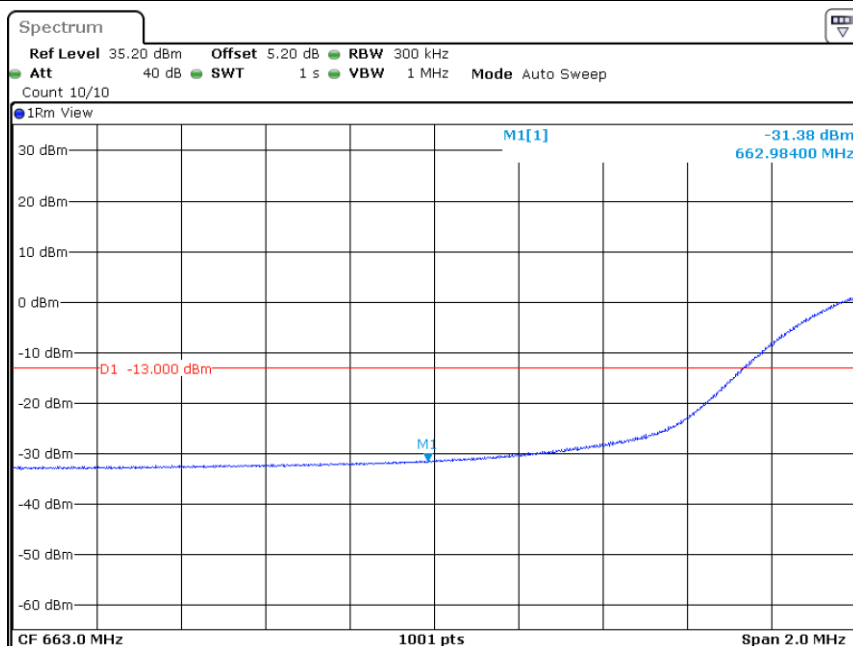
Date: 23.APR.2021 06:43:36



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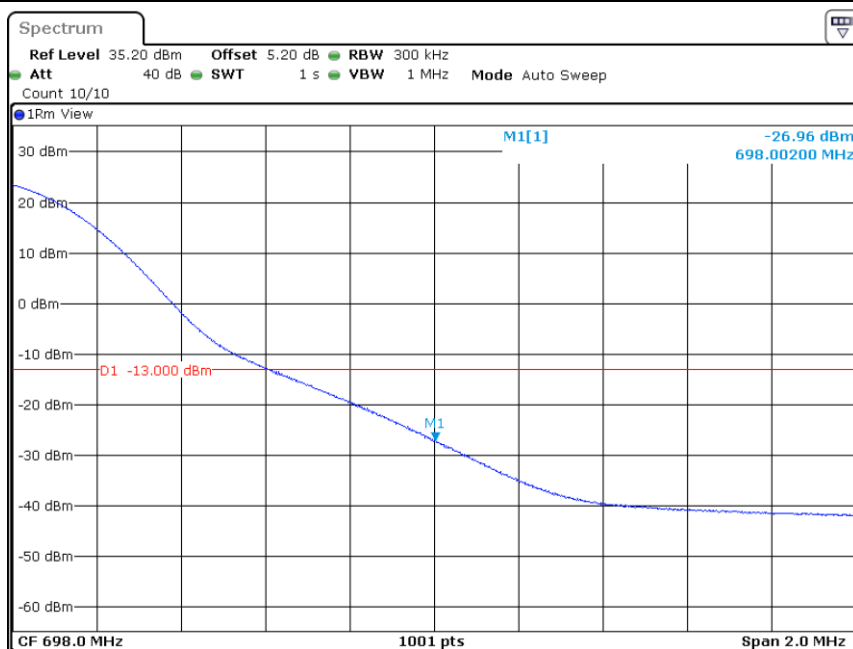
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Band71-20MHz-QPSK-133222-100RB#0



Date: 23 APR 2021 06:44:17

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



Date: 23 APR 2021 06:45:03



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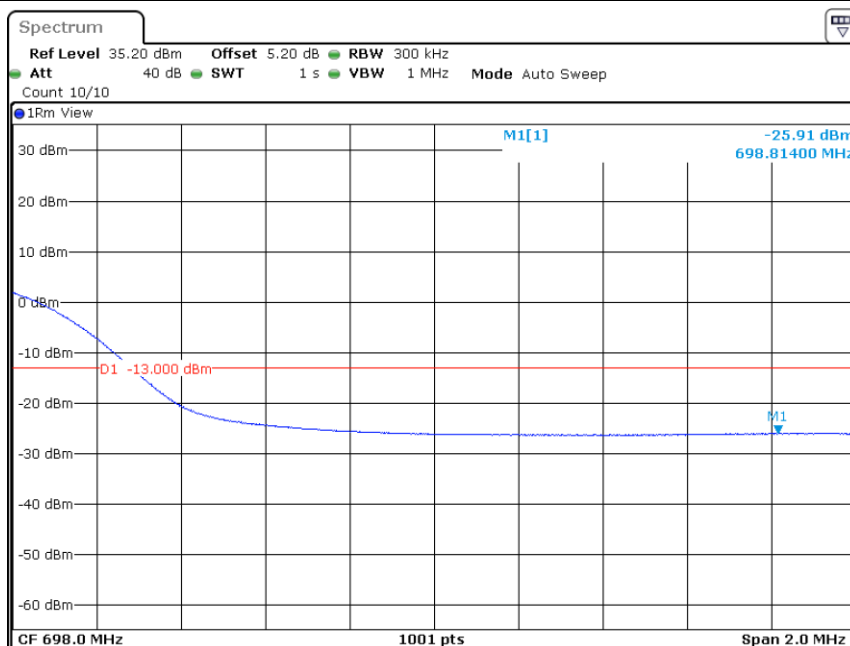
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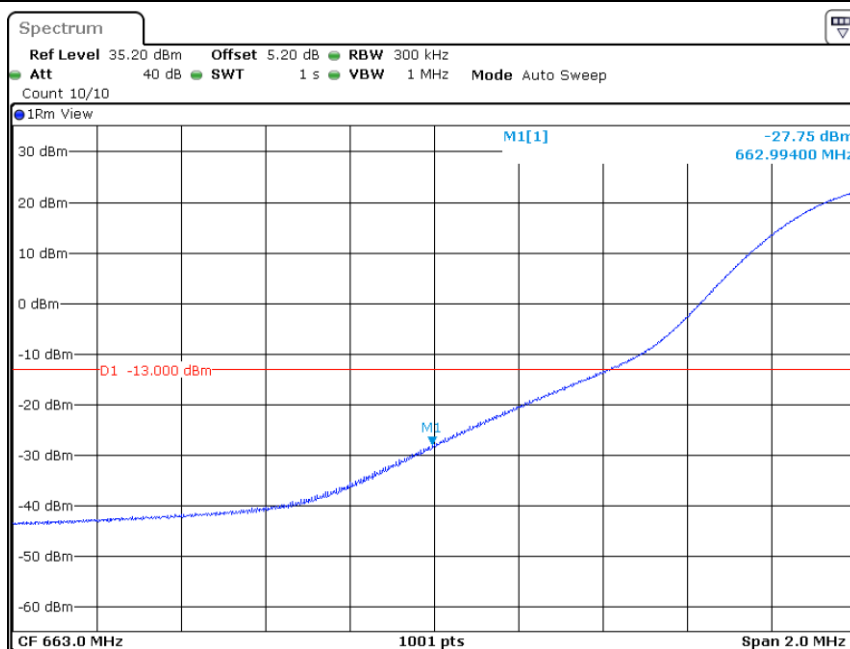


Band71-20MHz-QPSK-133372-100RB#0



Date: 23.APR.2021 06:45:44

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



Date: 23.APR.2021 06:43:56



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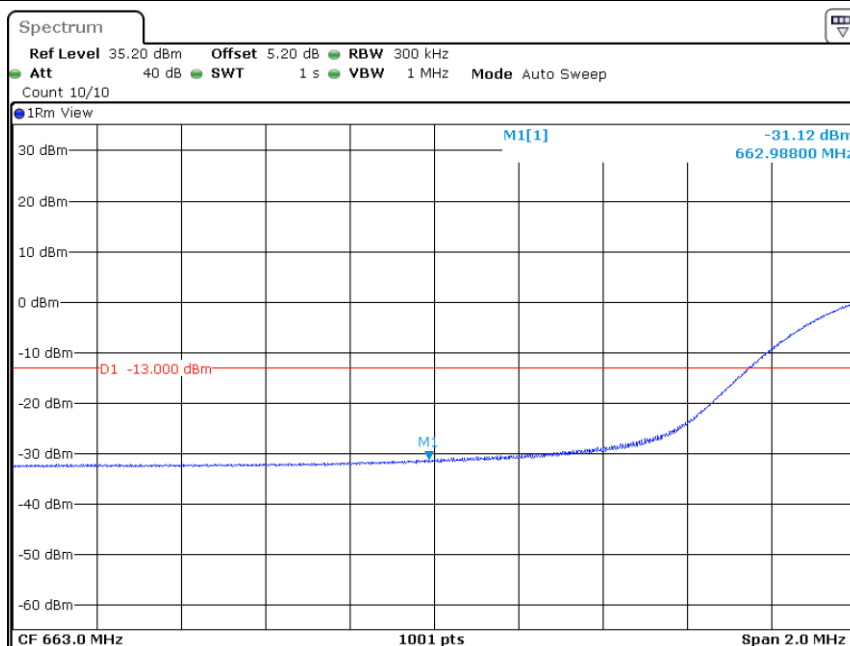
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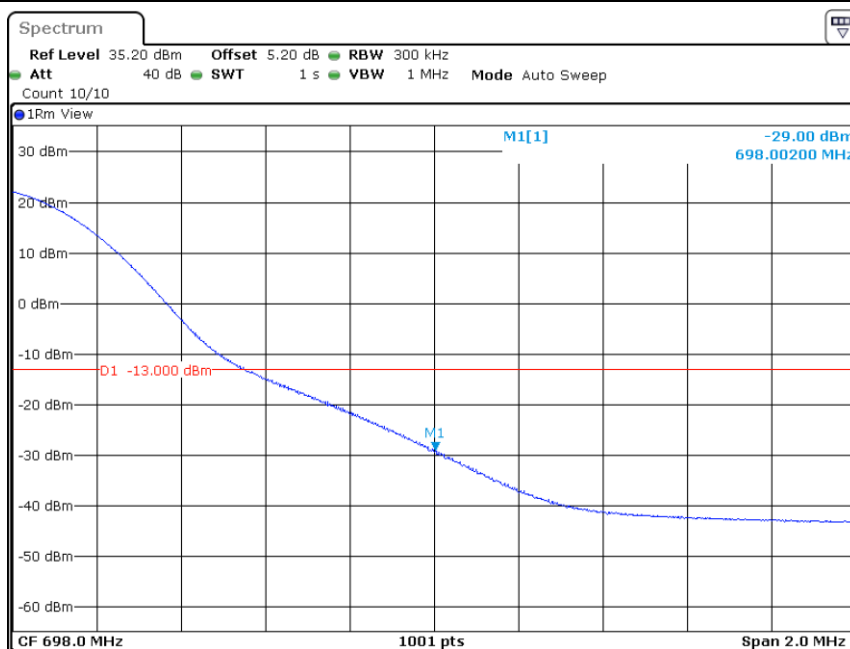


Band71-20MHz-16QAM-133222-100RB#0



Date: 23.APR.2021 06:44:37

Band71-20MHz-16QAM-133372-1RB#99



Date: 23.APR.2021 06:45:23

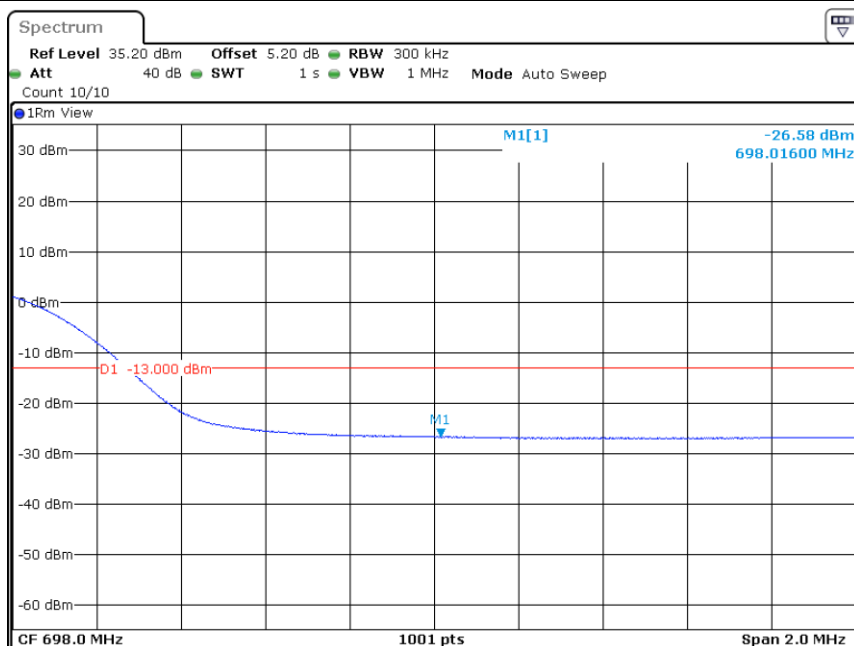


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Band71-20MHz-16QAM-133372-100RB#0



Date: 23 APR 2021 06:46:04



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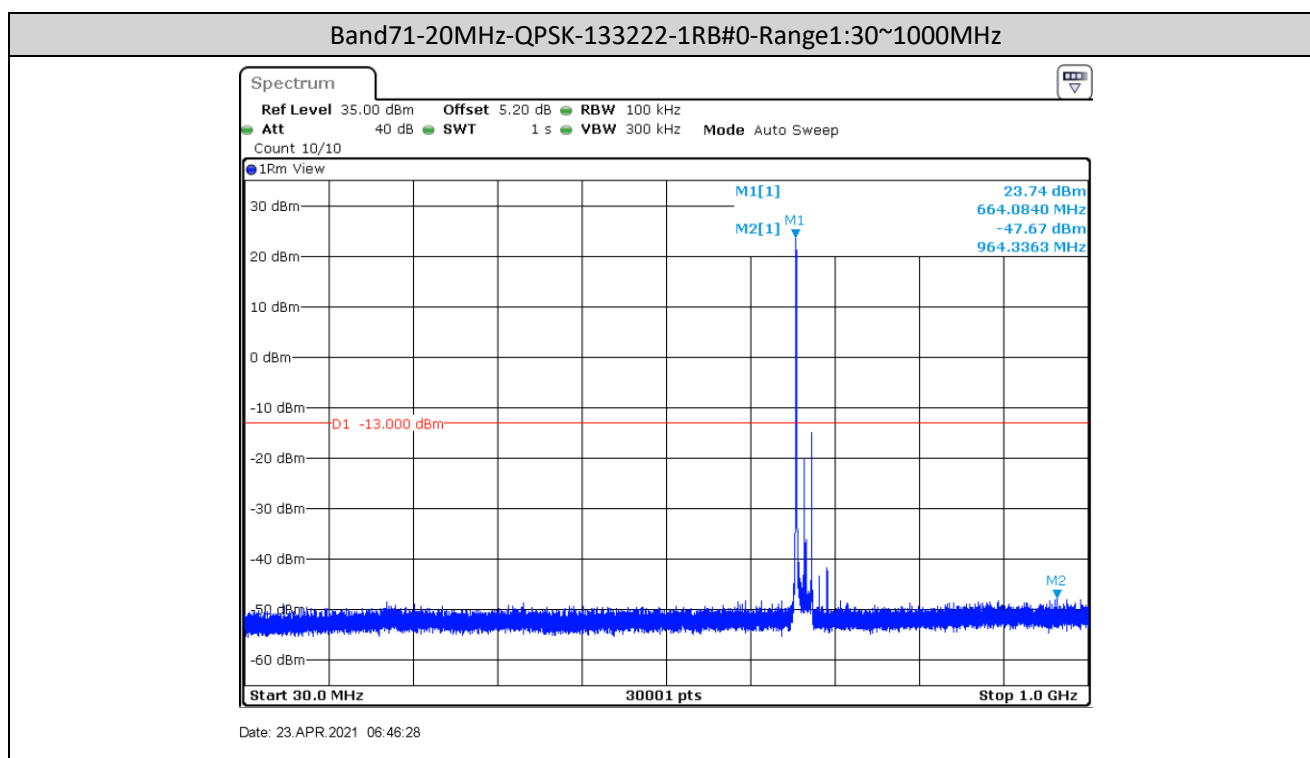
6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

6.1. Test Plots

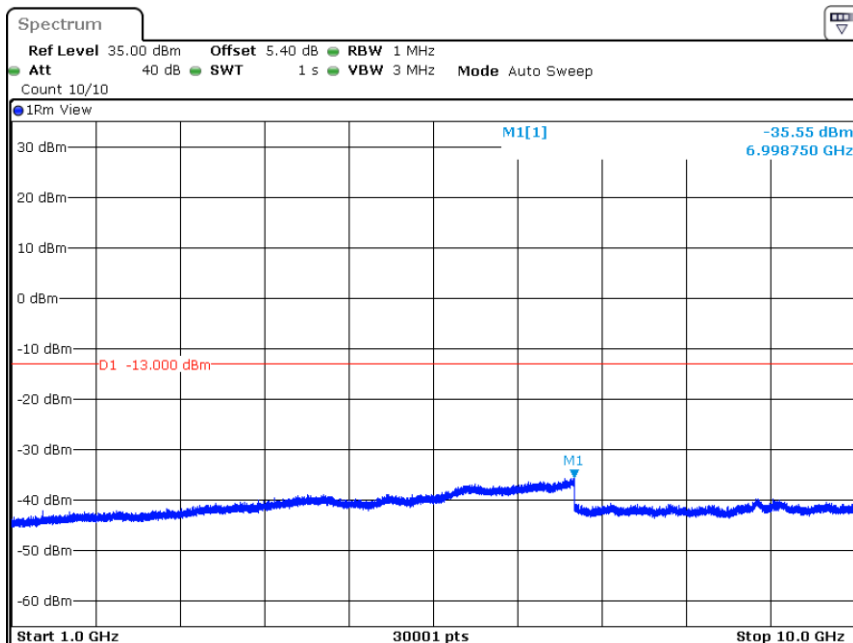


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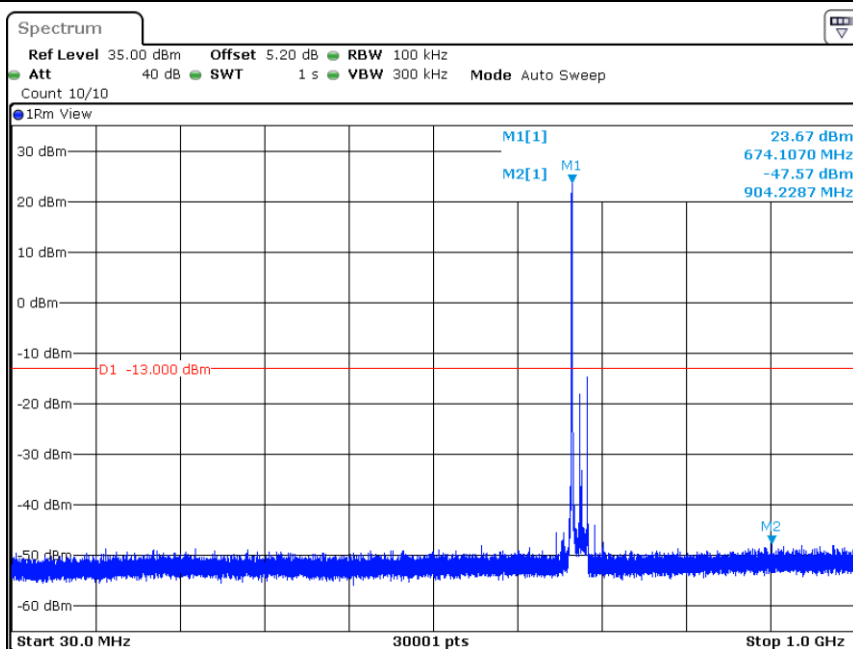
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Band71-20MHz-QPSK-133222-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:46:44

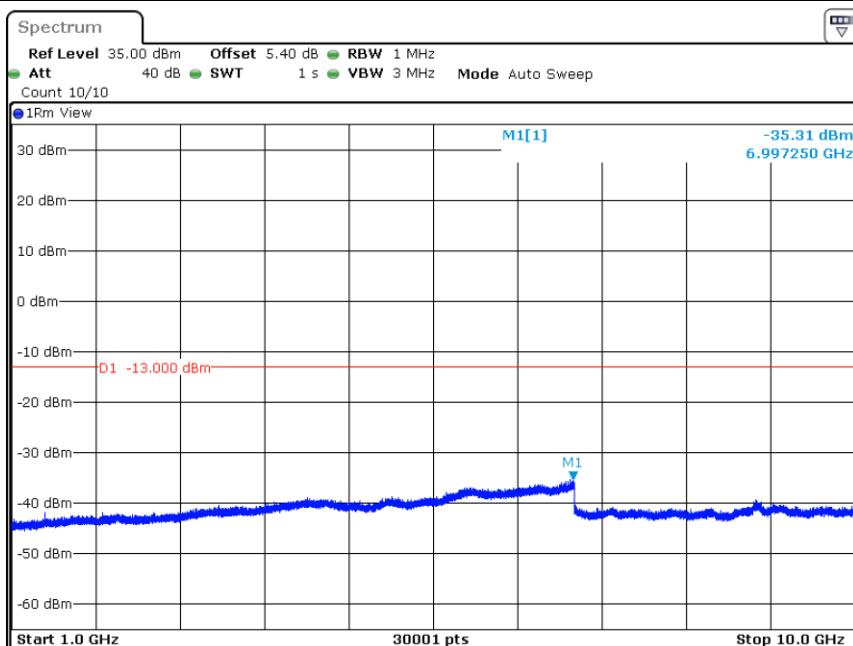
Band71-20MHz-QPSK-133322-1RB#0-Range1:30~1000MHz



Date: 23.APR.2021 06:47:39

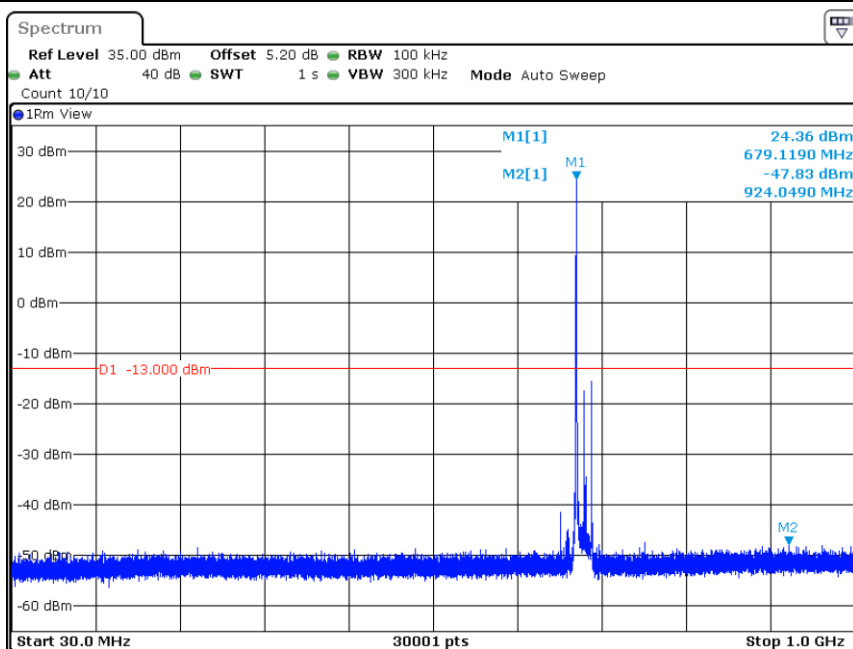


Band71-20MHz-QPSK-133322-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:47:54

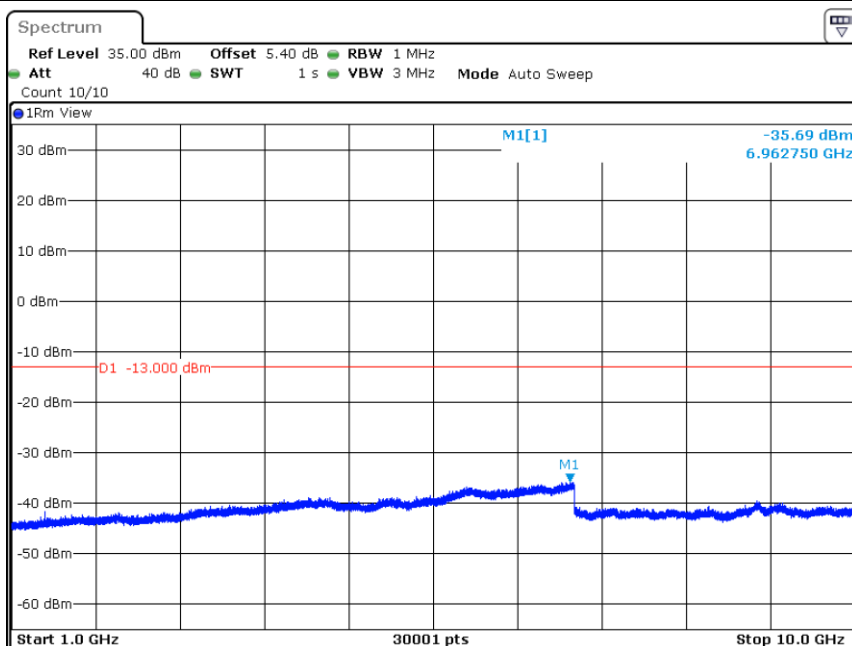
Band71-20MHz-QPSK-133372-1RB#0-Range1:30~1000MHz



Date: 23.APR.2021 06:48:49

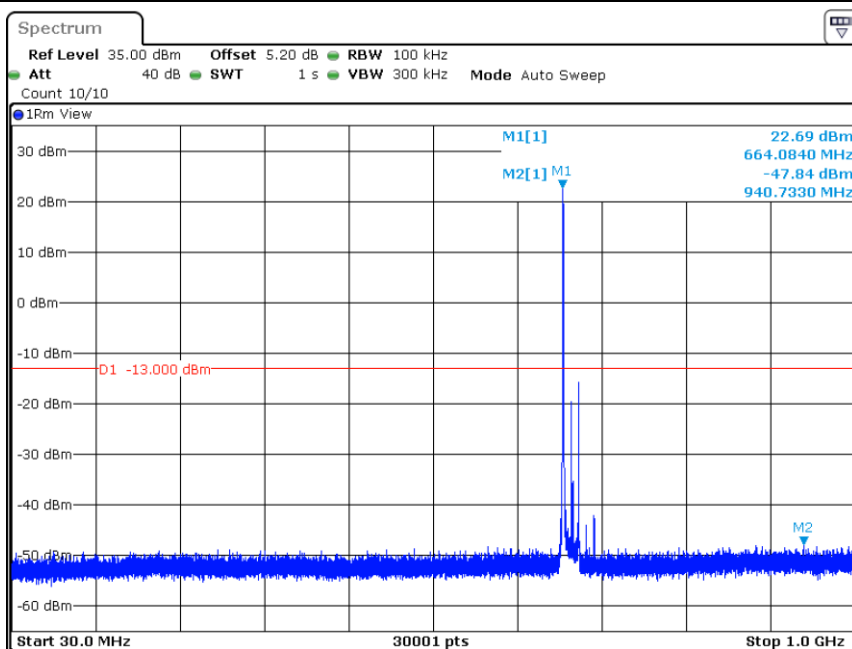


Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:49:05

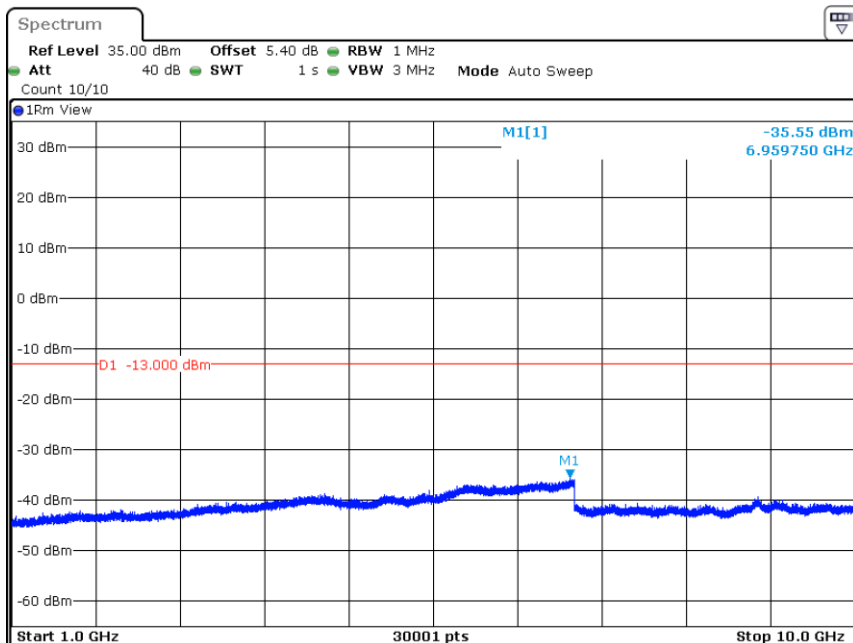
Band71-20MHz-16QAM-133222-1RB#0-Range1:30~1000MHz



Date: 23.APR.2021 06:47:04

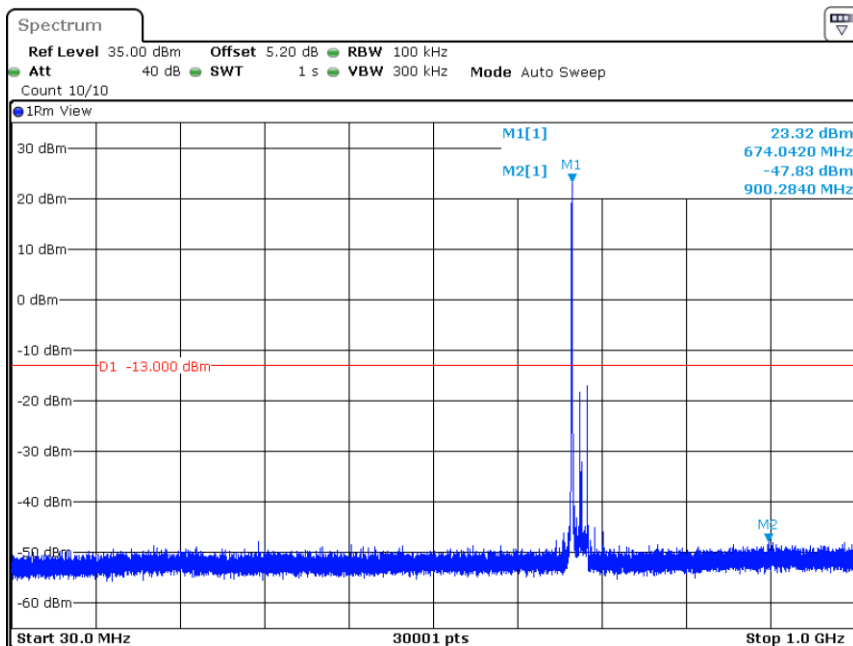


Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:47:19

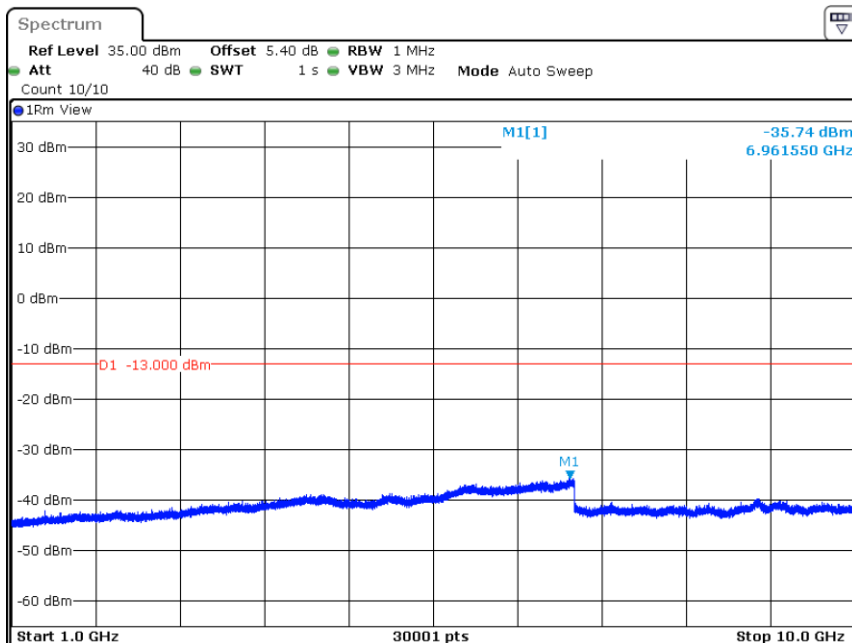
Band71-20MHz-16QAM-133322-1RB#0-Range1:30~1000MHz



Date: 23.APR.2021 06:48:14

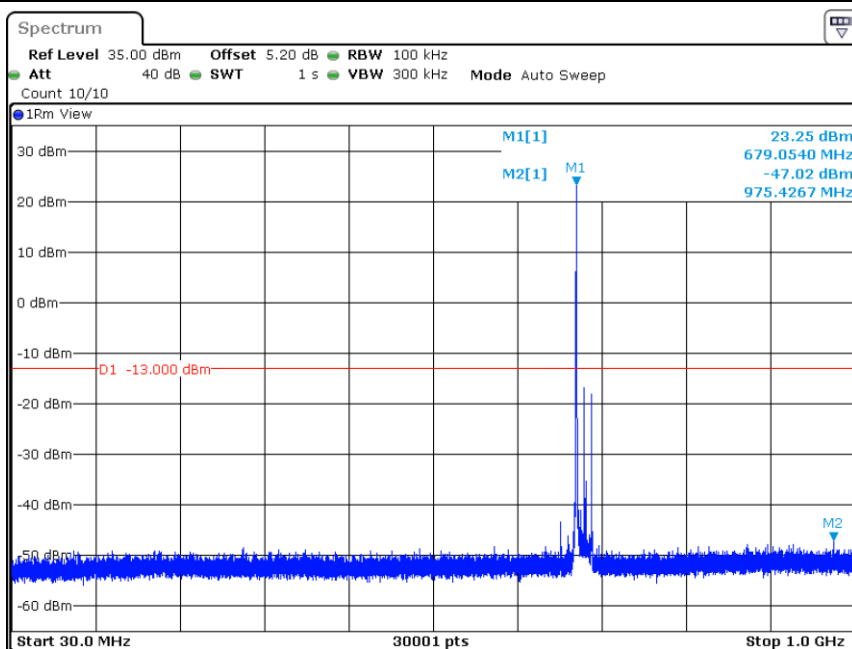


Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:48:29

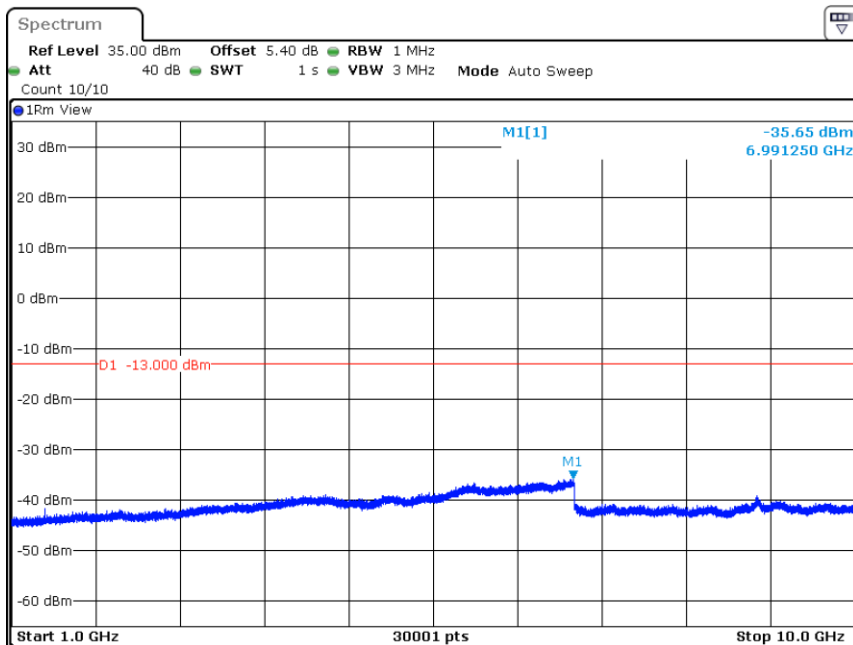
Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz



Date: 23.APR.2021 06:49:25



Band71-20MHz-16QAM-133372-1RB#0-Range2:1000~10000MHz



Date: 23.APR.2021 06:49:40



7. Field Strength of Spurious Radiation

ANT1:

7.1. Test Band = LTE_Band=71 BW=20MHz_TM1

7.1.1. Test Channel = Low channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.8541	-76.52	-44.13	-13.00	31.13	Horizontal
2	232.7553	-74.54	-46.08	-13.00	33.08	Horizontal
3	1348.3174	-59.05	-39.75	-13.00	26.75	Horizontal
4	2200.5600	-63.12	-38.52	-13.00	25.52	Horizontal
5	3370.3185	-45.32	-53.78	-13.00	40.78	Horizontal
6	5309.0655	-54.20	-52.73	-13.00	39.73	Horizontal

7.2. Test Band = LTE_Band=71 BW=20MHz_TM1

7.2.1. Test Channel = Low channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	111.1264	-75.85	-44.01	-13.00	31.01	Vertical
2	390.4001	-74.03	-45.87	-13.00	32.87	Vertical
3	2199.9600	-63.16	-38.32	-13.00	25.32	Vertical
4	3370.3185	-49.97	-59.54	-13.00	46.54	Vertical
5	5393.0697	-52.94	-53.43	-13.00	40.43	Vertical
6	9631.7816	-56.78	-49.49	-13.00	36.49	Vertical



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7.3. Test Band = LTE_Band=71 BW=20MHz_TM1

7.3.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.6432	-75.75	-43.67	-13.00	30.67	Horizontal
2	427.3859	-72.93	-45.17	-13.00	32.17	Horizontal
3	1343.3172	-60.81	-41.54	-13.00	28.54	Horizontal
4	2211.2606	-62.59	-38.12	-13.00	25.12	Horizontal
5	3357.7179	-46.48	-54.84	-13.00	41.84	Horizontal
6	5309.7655	-53.90	-52.44	-13.00	39.44	Horizontal

7.4. Test Band = LTE_Band=71 BW=20MHz_TM1

7.4.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	109.4287	-75.83	-44.03	-13.00	31.03	Vertical
2	428.3560	-72.88	-44.82	-13.00	31.82	Vertical
3	2197.7599	-62.62	-37.88	-13.00	24.88	Vertical
4	3357.7179	-50.55	-59.99	-13.00	46.99	Vertical
5	5372.4186	-53.02	-53.08	-13.00	40.08	Vertical
6	9748.6874	-57.65	-49.67	-13.00	36.67	Vertical



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7.5. Test Band = LTE_Band=71 BW=20MHz_TM1

7.5.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.9754	-76.32	-43.92	-13.00	30.92	Horizontal
2	239.9100	-74.84	-46.47	-13.00	33.47	Horizontal
3	2203.6602	-62.87	-38.31	-13.00	25.31	Horizontal
4	3395.1698	-47.04	-55.70	-13.00	42.70	Horizontal
5	5279.6640	-53.42	-52.25	-13.00	39.25	Horizontal
6	9250.6125	-57.48	-50.50	-13.00	37.50	Horizontal

7.6. Test Band = LTE_Band=71 BW=20MHz_TM1

7.6.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	107.2459	-75.29	-44.03	-13.00	31.03	Vertical
2	485.2294	-72.52	-43.87	-13.00	30.87	Vertical
3	1511.9256	-63.20	-43.49	-13.00	30.49	Vertical
4	2198.7599	-63.00	-38.21	-13.00	25.21	Vertical
5	5308.7154	-54.31	-53.35	-13.00	40.35	Vertical
6	9840.7420	-57.31	-49.62	-13.00	36.62	Vertical





ANT2:

7.7. Test Band = LTE_Band=71 BW=20MHz_TM1

7.7.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	48.9174	-75.65	-51.71	-13.00	38.71	Vertical
2	111.7327	-75.28	-43.50	-13.00	30.50	Vertical
3	504.1468	-72.19	-43.02	-13.00	30.02	Vertical
4	999.0299	-72.22	-33.28	-13.00	20.28	Vertical
5	2994.0997	-61.58	-38.00	-13.00	25.00	Vertical
6	9840.7420	-56.81	-49.12	-13.00	36.12	Vertical

7.8. Test Band = LTE_Band=71 BW=20MHz_TM1

7.8.1. Test Channel = Low Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	38.7311	-76.24	-44.34	-13.00	31.34	Horizontal
2	232.7553	-74.04	-45.58	-13.00	32.58	Horizontal
3	554.5931	-71.67	-40.92	-13.00	27.92	Horizontal
4	1348.3174	-58.55	-39.25	-13.00	26.25	Horizontal
5	2992.8996	-61.45	-36.99	-13.00	23.99	Horizontal
6	9272.6636	-56.99	-50.13	-13.00	37.13	Horizontal





7.9. Test Band = LTE_Band=71 BW=20MHz _TM1

7.9.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	48.0685	-76.27	-52.50	-13.00	39.50	Vertical
2	111.1264	-75.35	-43.51	-13.00	30.51	Vertical
3	442.3015	-73.16	-45.00	-13.00	32.00	Vertical
4	996.4833	-72.06	-33.31	-13.00	20.31	Vertical
5	2968.2984	-61.40	-37.99	-13.00	24.99	Vertical
6	9631.7816	-56.28	-48.99	-13.00	35.99	Vertical

7.10. Test Band = LTE_Band=71 BW=20MHz _TM1

7.10.1. Test Channel = Mid Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	45.6432	-75.25	-43.17	-13.00	30.17	Horizontal
2	245.2457	-74.39	-46.24	-13.00	33.24	Horizontal
3	554.7143	-71.52	-40.77	-13.00	27.77	Horizontal
4	990.0563	-71.93	-33.44	-13.00	20.44	Horizontal
5	2998.0999	-61.68	-37.20	-13.00	24.20	Horizontal
6	9284.2142	-56.63	-49.83	-13.00	36.83	Horizontal



7.11. Test Band = LTE_Band=71 BW=20MHz _TM1

7.11.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	50.0088	-74.55	-50.39	-13.00	37.39	Vertical
2	103.6080	-74.99	-44.64	-13.00	31.64	Vertical
3	428.3560	-72.38	-44.32	-13.00	31.32	Vertical
4	997.3322	-71.95	-33.14	-13.00	20.14	Vertical
5	2970.2985	-61.41	-37.99	-13.00	24.99	Vertical
6	9748.6874	-57.15	-49.17	-13.00	36.17	Vertical

7.12. Test Band = LTE_Band=71 BW=20MHz _TM1

7.12.1. Test Channel = High Channel

Suspected Data List						
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	42.9754	-75.82	-43.42	-13.00	30.42	Horizontal
2	239.9100	-74.34	-45.97	-13.00	32.97	Horizontal
3	554.2293	-71.61	-40.87	-13.00	27.87	Horizontal
4	994.4218	-71.50	-32.70	-13.00	19.70	Horizontal
5	2981.5991	-61.46	-37.06	-13.00	24.06	Horizontal
6	9757.7879	-56.84	-49.90	-13.00	36.90	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	VL	NT	-2.00	-0.002972	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	-0.20	-0.000297	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-0.90	-0.001318	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-0.90	-0.001318	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-2.30	-0.003367	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	-2.60	-0.003779	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	-1.30	-0.001890	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	-1.90	-0.002762	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VL	NT	0.40	0.000594	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VN	NT	-1.70	-0.002526	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VH	NT	-2.00	-0.002972	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VL	NT	-2.50	-0.003660	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VN	NT	-2.80	-0.004100	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VH	NT	-0.50	-0.000732	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VL	NT	-0.90	-0.001308	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VN	NT	-1.50	-0.002180	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VH	NT	-1.00	-0.001453	±2.5	PASS





8.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	NV	-30	-1.60	-0.002377	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-20	-1.90	-0.002823	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-10	-1.10	-0.001634	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	0	0.10	0.000149	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	-0.40	-0.000594	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	-2.80	-0.004160	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	30	-2.80	-0.004160	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	40	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	50	-1.40	-0.002080	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-2.00	-0.002928	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.70	-0.002489	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-0.90	-0.001318	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-0.70	-0.001025	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-0.90	-0.001318	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-2.50	-0.003660	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-0.40	-0.000586	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-3.00	-0.004392	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-0.50	-0.000732	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	-1.80	-0.002616	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-10	-1.00	-0.001453	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	0	-1.40	-0.002035	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	10	-1.40	-0.002035	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	20	-1.60	-0.002326	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-0.40	-0.000581	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-0.80	-0.001163	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	50	-2.90	-0.004215	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-30	-0.80	-0.001189	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-20	-2.00	-0.002972	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-10	-2.90	-0.004309	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	0	-1.30	-0.001932	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	10	-0.50	-0.000743	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	20	-0.40	-0.000594	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	30	-2.70	-0.004012	±2.5	PASS



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Band71	20MHz	16QAM	133222	100RB#0	NV	40	-2.30	-0.003418	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	50	-2.50	-0.003715	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-30	-1.50	-0.002196	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-20	-2.20	-0.003221	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-10	-0.40	-0.000586	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	0	-0.60	-0.000878	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	10	-1.80	-0.002635	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	20	-2.40	-0.003514	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	30	-3.20	-0.004685	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	40	-0.70	-0.001025	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	50	-0.70	-0.001025	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-30	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-20	-1.90	-0.002762	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-10	0.20	0.000291	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	0	-0.40	-0.000581	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	10	-2.80	-0.004070	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	20	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	30	-1.40	-0.002035	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	40	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	50	-1.70	-0.002471	±2.5	PASS



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