



Appendix B

E-UTRA Band 71



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1 Effective (Isotropic) Radiated Power

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	23.05	20.80	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.59	21.34	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.46	21.21	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#0	22.42	20.17	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#6	22.47	20.22	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#13	22.42	20.17	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.68	20.43	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.17	20.92	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.58	21.33	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.13	20.88	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#0	22.41	20.16	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#6	22.51	20.26	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#13	22.31	20.06	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.95	19.70	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.92	20.67	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.35	21.10	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.39	21.14	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#0	22.22	19.97	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#6	22.45	20.20	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#13	22.46	20.21	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.13	19.88	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.59	19.34	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.62	20.37	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.44	19.19	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#0	20.70	18.45	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#6	21.23	18.98	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#13	20.87	18.62	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	20.78	18.53	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.81	19.56	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.02	19.77	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.57	19.32	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#0	20.79	18.54	34.77	PASS



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Band71	5MHz	16QAM	133297	12RB#6	20.94	18.69	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#13	20.96	18.71	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.82	18.57	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.64	19.39	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.10	19.85	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.83	19.58	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#0	20.61	18.36	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#6	21.00	18.75	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#13	20.96	18.71	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.67	18.42	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	23.18	20.93	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	24.16	21.91	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.85	20.60	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.60	20.35	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#12	22.45	20.20	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#25	22.15	19.90	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.03	19.78	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.04	20.79	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.66	21.41	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.73	20.48	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#0	22.61	20.36	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#12	22.47	20.22	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#25	22.15	19.90	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.81	19.56	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.00	20.75	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.60	21.35	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.82	20.57	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#0	22.29	20.04	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#12	22.56	20.31	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#25	22.31	20.06	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.69	19.44	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.75	19.50	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.92	19.67	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	20.91	18.66	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#0	21.07	18.82	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#12	21.02	18.77	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#25	20.75	18.50	34.77	PASS
Band71	10MHz	16QAM	133172	27RB#0	20.91	18.66	34.77	PASS



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Band71	10MHz	16QAM	133297	1RB#0	21.18	18.93	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.41	20.16	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.48	19.23	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#0	20.93	18.68	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#12	21.06	18.81	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#25	20.82	18.57	34.77	PASS
Band71	10MHz	16QAM	133297	27RB#0	20.93	18.68	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.58	19.33	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.21	19.96	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.62	19.37	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#0	20.59	18.34	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#12	20.94	18.69	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#25	20.69	18.44	34.77	PASS
Band71	10MHz	16QAM	133422	27RB#0	20.78	18.53	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	23.11	20.86	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.66	21.41	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	23.03	20.78	34.77	PASS
Band71	15MHz	QPSK	133197	38RB#0	22.87	20.62	34.77	PASS
Band71	15MHz	QPSK	133197	38RB#18	23.81	21.56	34.77	PASS
Band71	15MHz	QPSK	133197	38RB#37	22.96	20.71	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.88	19.63	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.61	21.36	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.35	21.10	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.89	20.64	34.77	PASS
Band71	15MHz	QPSK	133297	38RB#0	23.19	20.94	34.77	PASS
Band71	15MHz	QPSK	133297	38RB#18	23.69	21.44	34.77	PASS
Band71	15MHz	QPSK	133297	38RB#37	23.39	21.14	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.91	19.66	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.29	21.04	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.41	21.16	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.30	21.05	34.77	PASS
Band71	15MHz	QPSK	133397	38RB#0	23.04	20.79	34.77	PASS
Band71	15MHz	QPSK	133397	38RB#18	23.45	21.20	34.77	PASS
Band71	15MHz	QPSK	133397	38RB#37	23.17	20.92	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.81	19.56	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.64	19.39	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.14	19.89	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.56	19.31	34.77	PASS





Band71	15MHz	16QAM	133197	27RB#0	20.94	18.69	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.71	19.46	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.46	20.21	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.33	19.08	34.77	PASS
Band71	15MHz	16QAM	133297	27RB#0	20.77	18.52	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.75	19.50	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.96	19.71	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.55	19.30	34.77	PASS
Band71	15MHz	16QAM	133397	27RB#0	20.71	18.46	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.11	20.86	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	9.13	6.88	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.45	21.20	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#0	22.61	20.36	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#25	22.61	20.36	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#50	22.35	20.10	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.89	19.64	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.27	21.02	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	24.06	21.81	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.86	20.61	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#0	22.62	20.37	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#25	22.54	20.29	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#50	22.21	19.96	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.80	19.55	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	23.24	20.99	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.92	21.67	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.95	20.70	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#0	22.43	20.18	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#25	22.56	20.31	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#50	22.32	20.07	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.90	19.65	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.85	19.60	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.66	20.41	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.31	19.06	34.77	PASS
Band71	20MHz	16QAM	133222	27RB#0	20.75	18.50	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.52	19.27	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.52	20.27	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	20.87	18.62	34.77	PASS
Band71	20MHz	16QAM	133322	27RB#0	20.89	18.64	34.77	PASS



Band71	20MHz	16QAM	133372	1RB#0	21.51	19.26	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.49	20.24	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.12	18.87	34.77	PASS
Band71	20MHz	16QAM	133372	27RB#0	20.83	18.58	34.77	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]



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Shenzhen Branch (ECC Laboratory)

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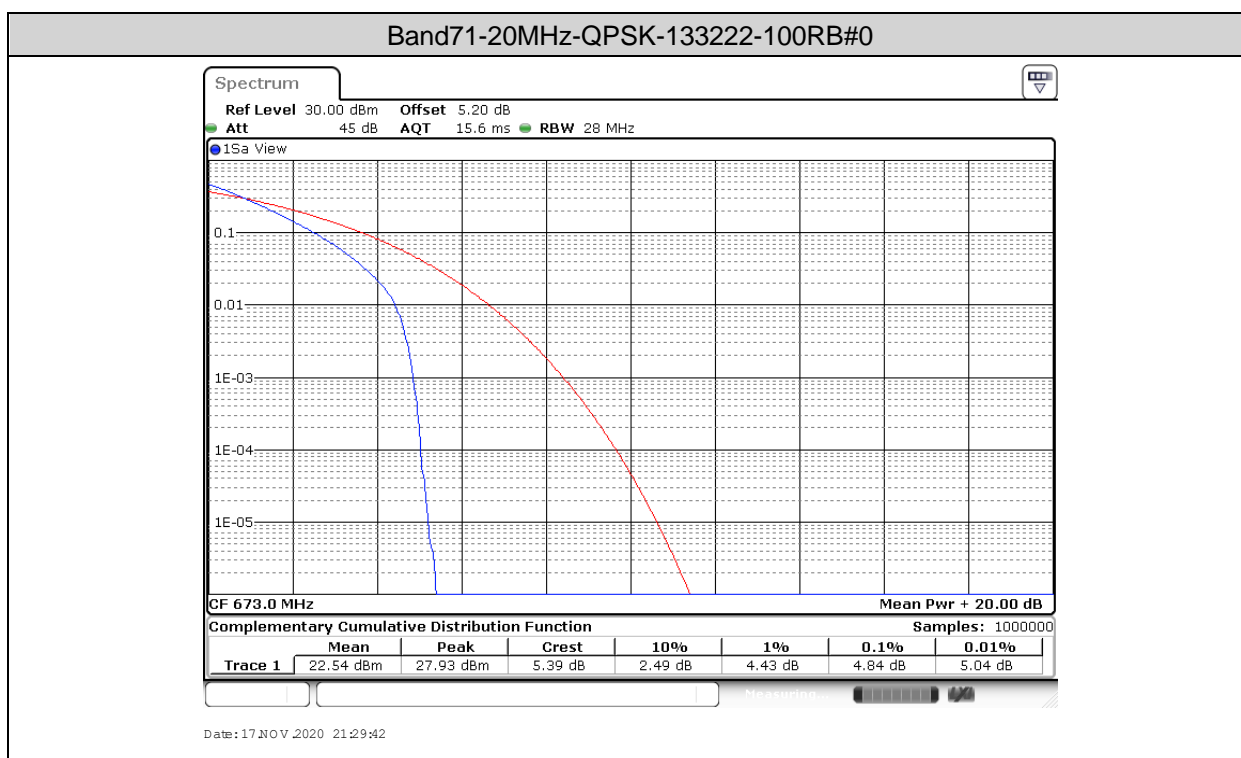
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2 Peak-to-Average Ratio (CCDF)

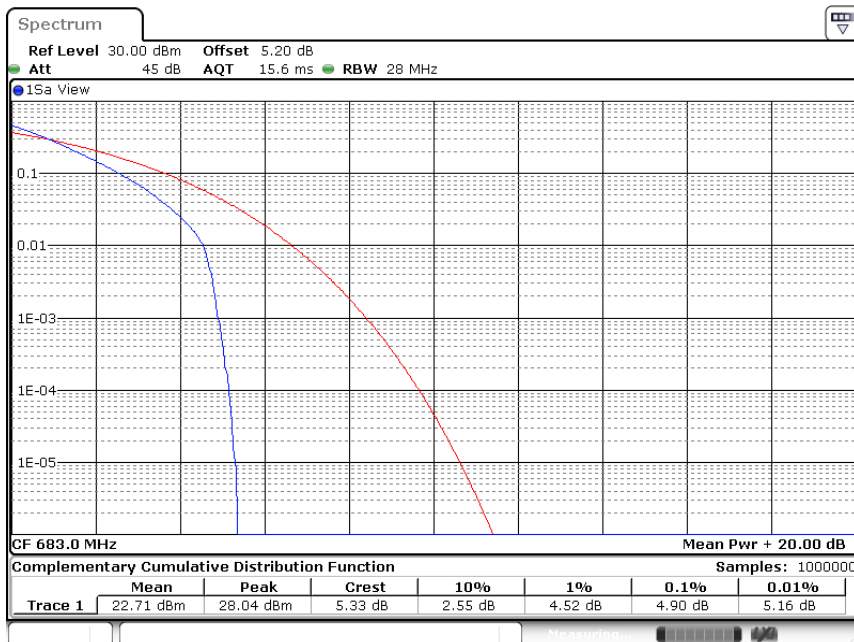
2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	4.84	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.90	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	4.84	13	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.71	13	PASS
Band71	20MHz	16QAM	133322	27RB#0	5.71	13	PASS
Band71	20MHz	16QAM	133372	27RB#0	5.71	13	PASS

2.2 Test Plots

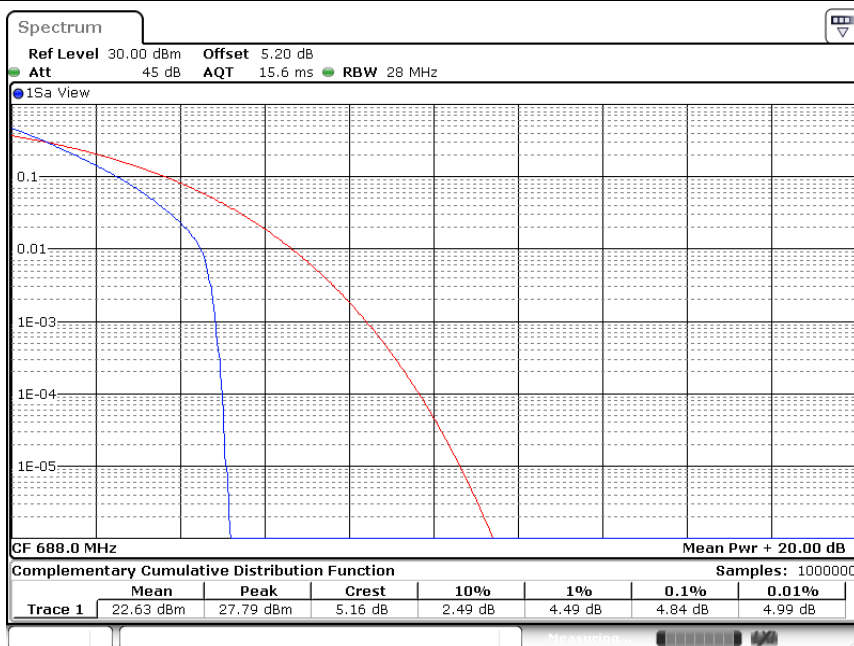


Band71-20MHz-QPSK-133322-100RB#0



Date: 17 NOV 2020 21:29:59

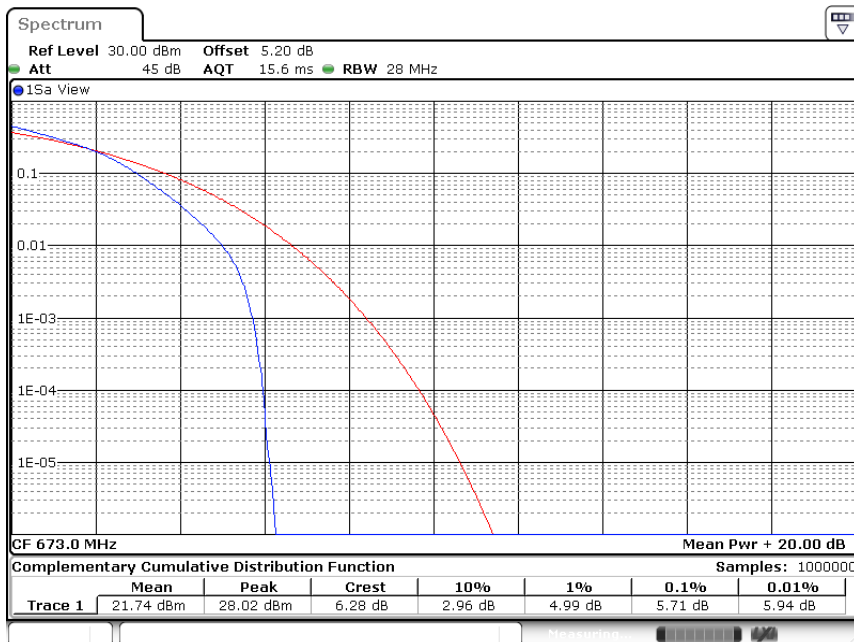
Band71-20MHz-QPSK-133372-100RB#0



Date: 17 NOV 2020 21:30:15

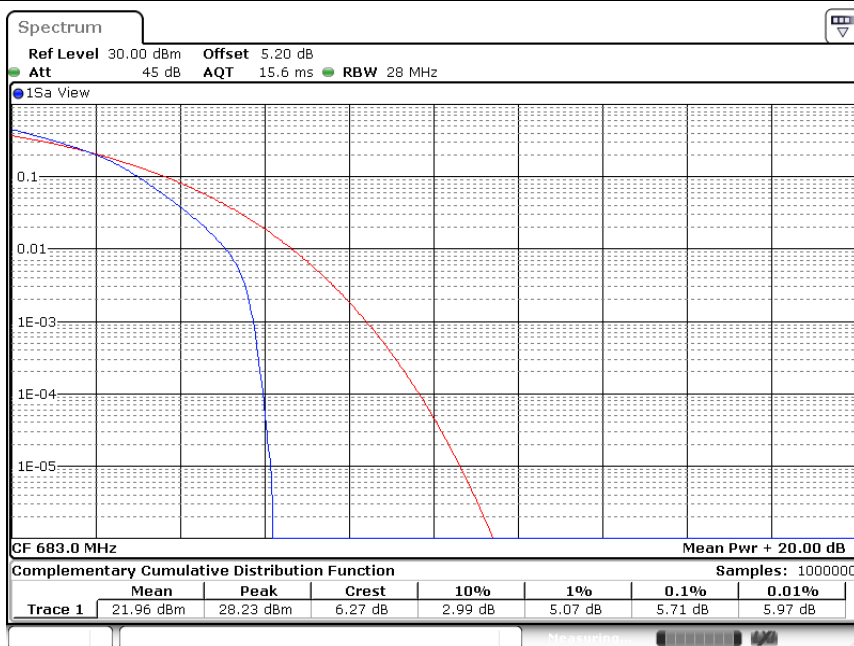


Band71-20MHz-16QAM-133222-27RB#0



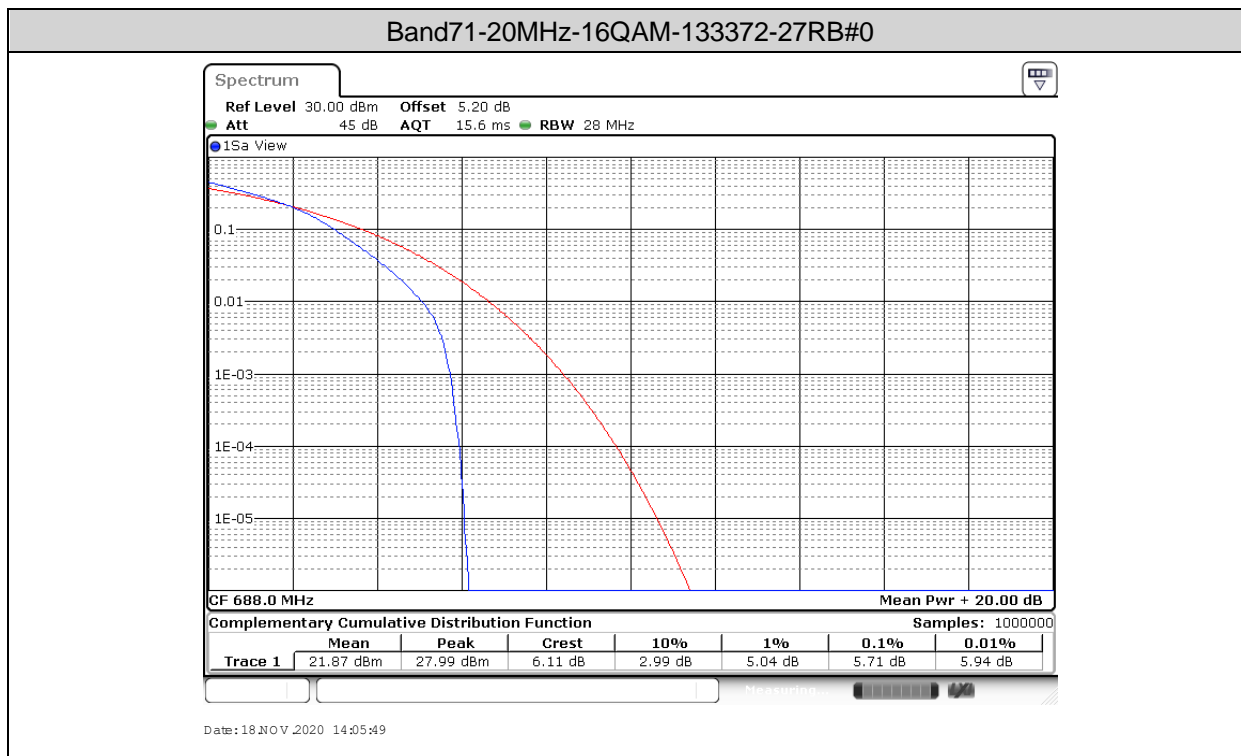
Date: 18 NOV 2020 14:05:16

Band71-20MHz-16QAM-133322-27RB#0



Date: 18 NOV 2020 14:05:33





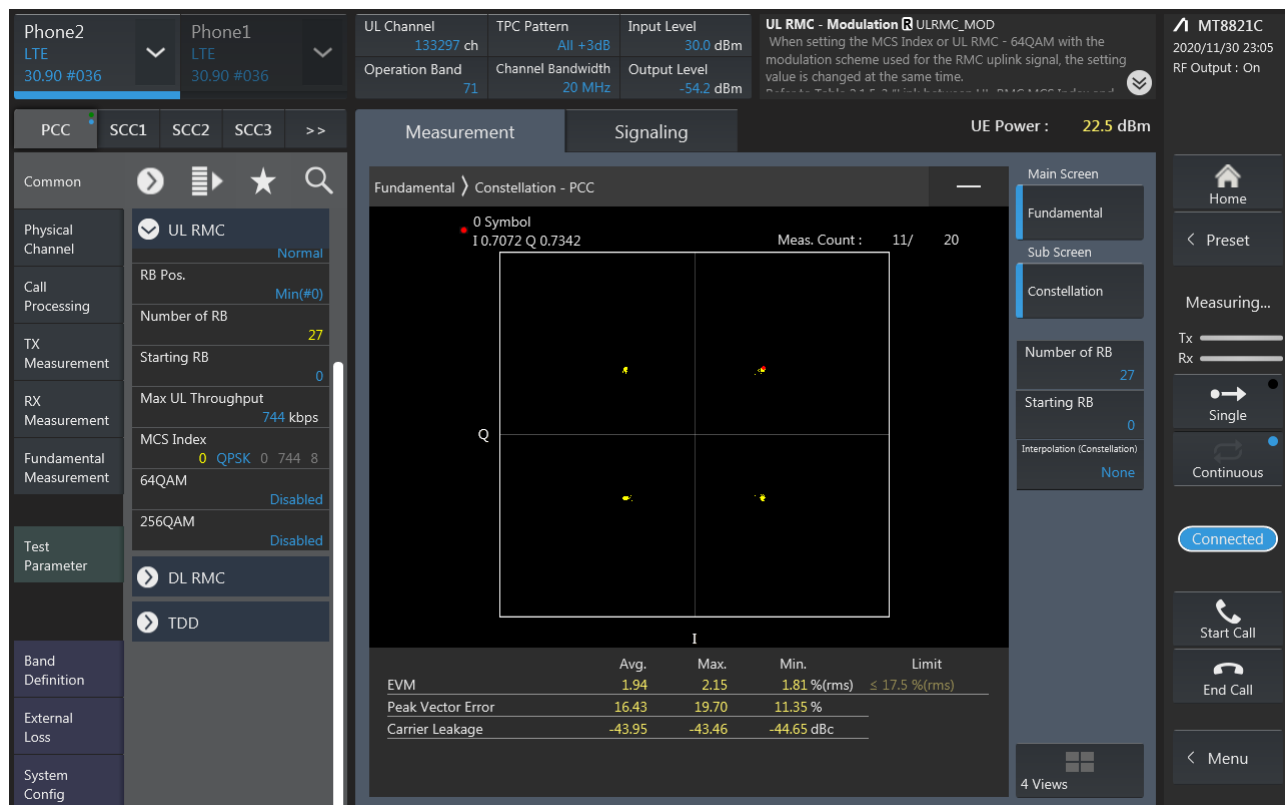
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3 Modulation Characteristics

3.1 Test Mode = LTE /TM1 20MHz

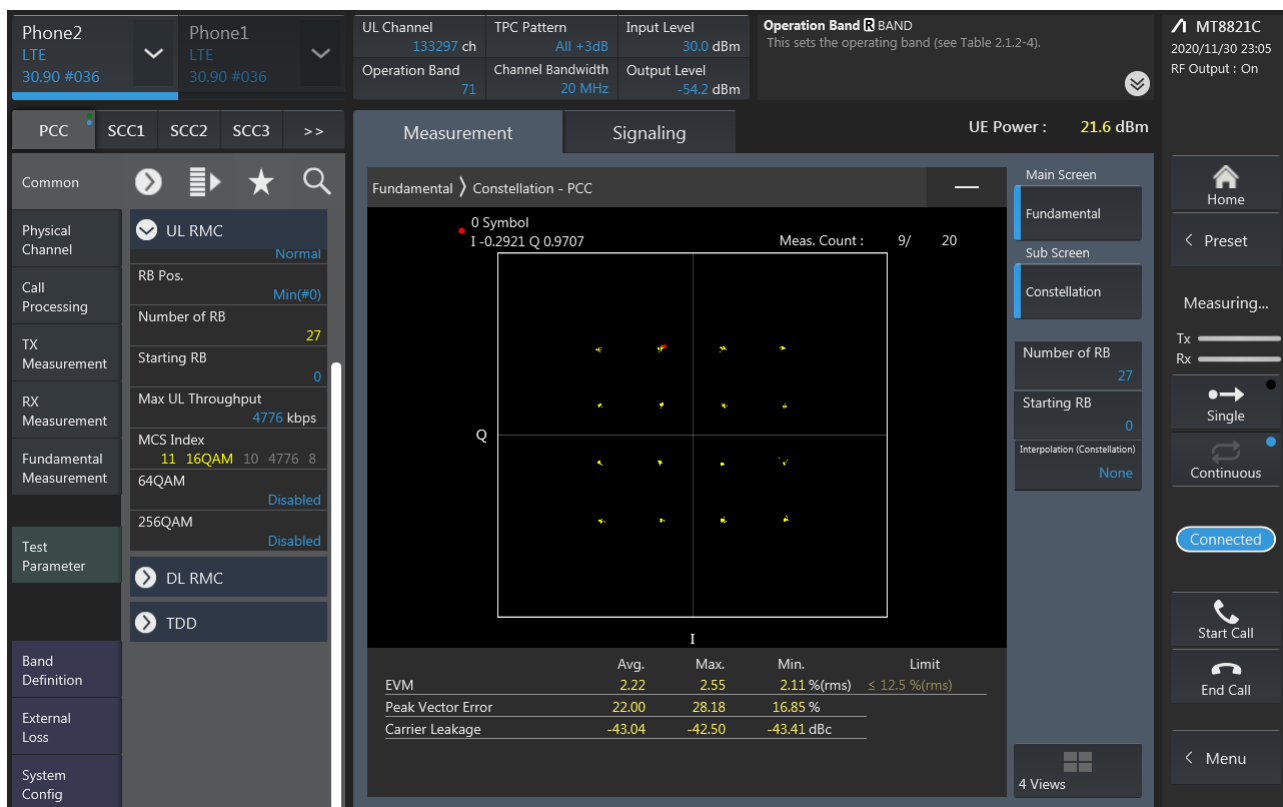
3.1.1 Test Channel = MCH





3.2 Test Mode = LTE /TM2 20MHz

3.2.1 Test Channel = MCH





4 26dB Bandwidth and Occupied Bandwidth

4.1 Test Result

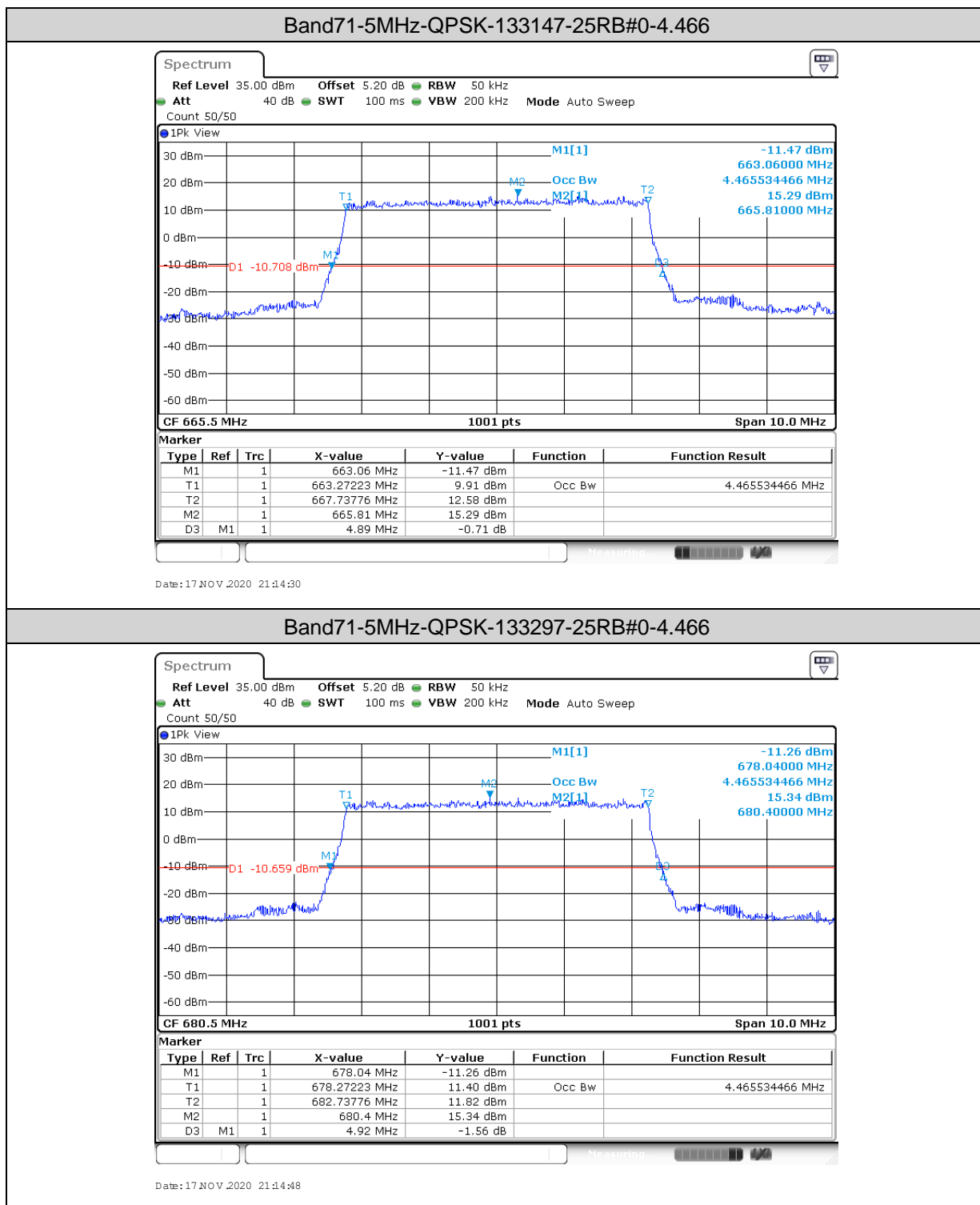
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.466	4.890	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.466	4.920	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.476	4.930	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.476	4.930	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.476	4.930	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.476	4.970	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.911	9.740	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.891	9.680	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.931	9.760	PASS
Band71	10MHz	16QAM	133172	27RB#0	4.875	5.740	PASS
Band71	10MHz	16QAM	133297	27RB#0	4.875	5.700	PASS
Band71	10MHz	16QAM	133422	27RB#0	4.855	5.760	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.487	14.850	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.367	14.640	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.487	14.850	PASS
Band71	15MHz	16QAM	133197	27RB#0	5.035	6.090	PASS
Band71	15MHz	16QAM	133297	27RB#0	5.035	6.090	PASS
Band71	15MHz	16QAM	133397	27RB#0	5.065	6.090	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.902	19.400	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.742	19.240	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.862	19.440	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.035	6.320	PASS
Band71	20MHz	16QAM	133322	27RB#0	5.115	6.280	PASS
Band71	20MHz	16QAM	133372	27RB#0	5.115	6.280	PASS



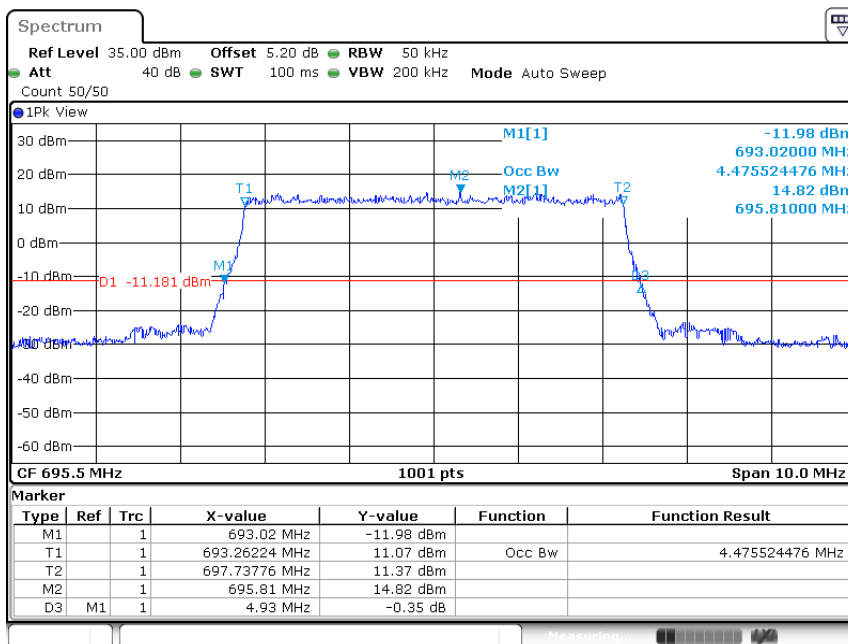
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4.2 Test Plots

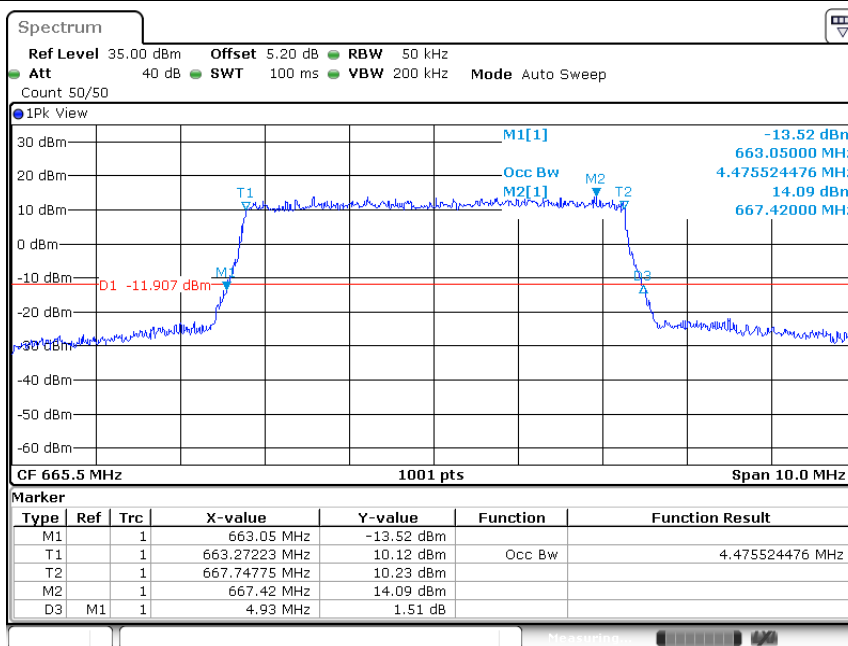


Band71-5MHz-QPSK-133447-25RB#0-4.476



Date: 17 NOV 2020 21:15:07

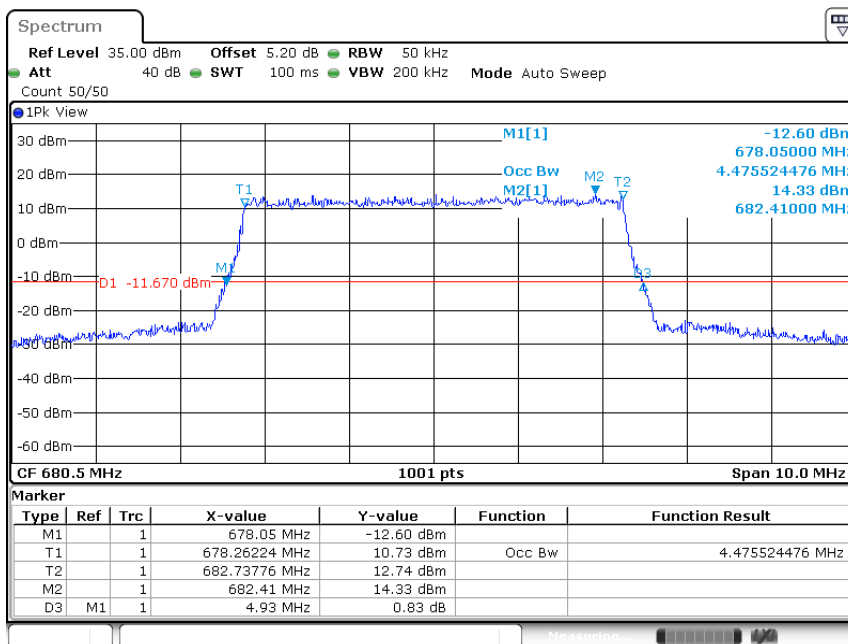
Band71-5MHz-16QAM-133147-25RB#0-4.476



Date: 18 NOV 2020 12:30:48

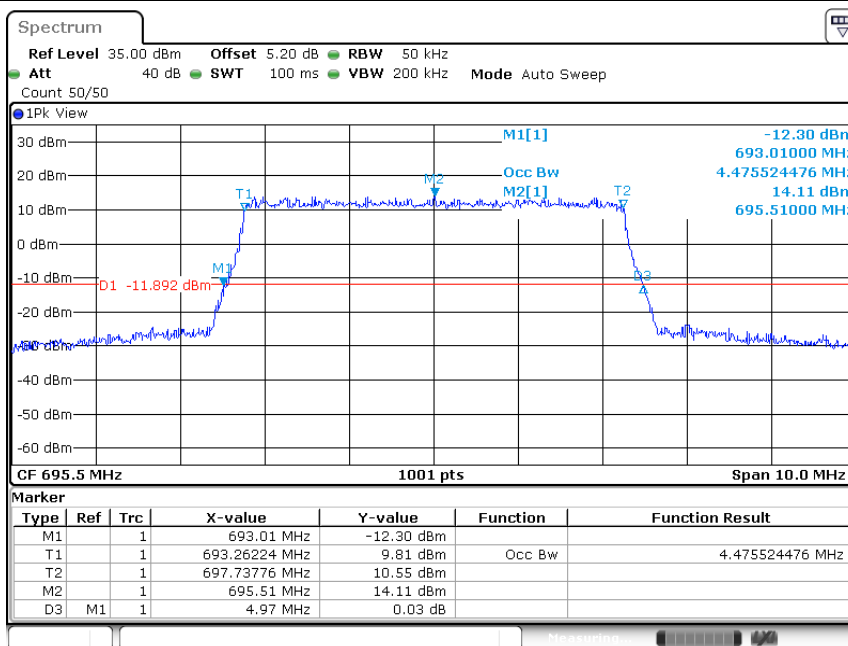


Band71-5MHz-16QAM-133297-25RB#0-4.476



Date: 18 NOV 2020 12:31:07

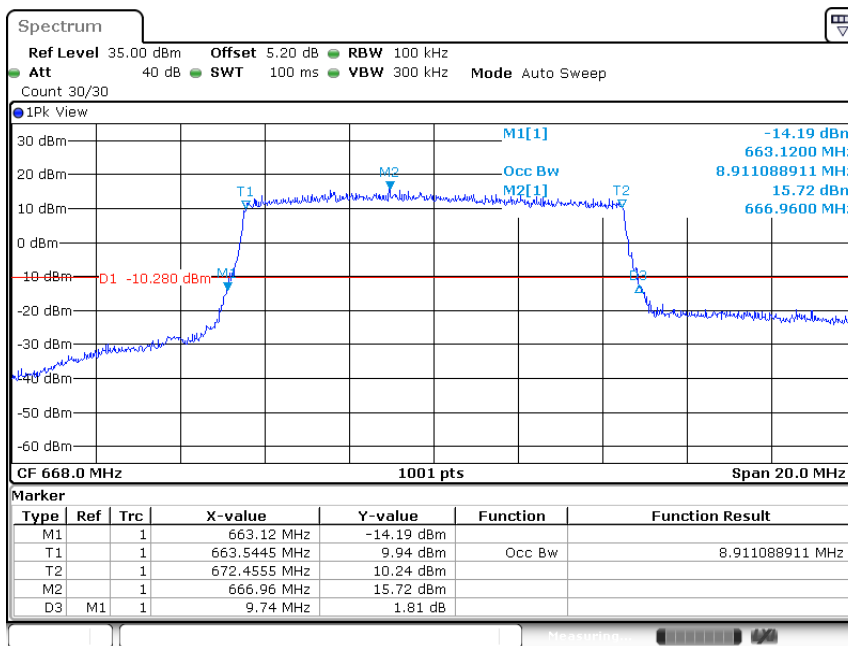
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Date: 18 NOV 2020 12:31:26

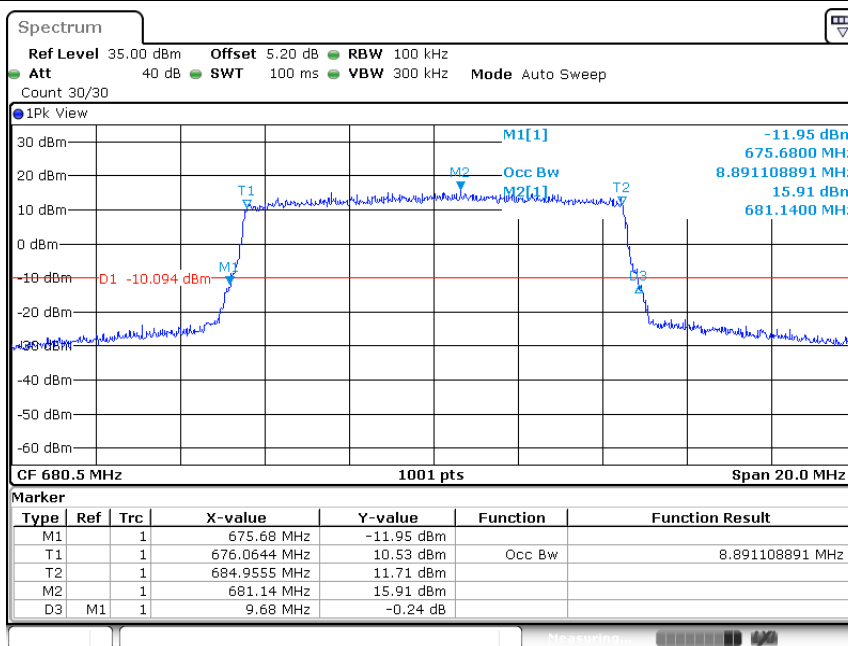


Band71-10MHz-QPSK-133172-50RB#0-8.911



Date: 23 NOV 2020 21:09:24

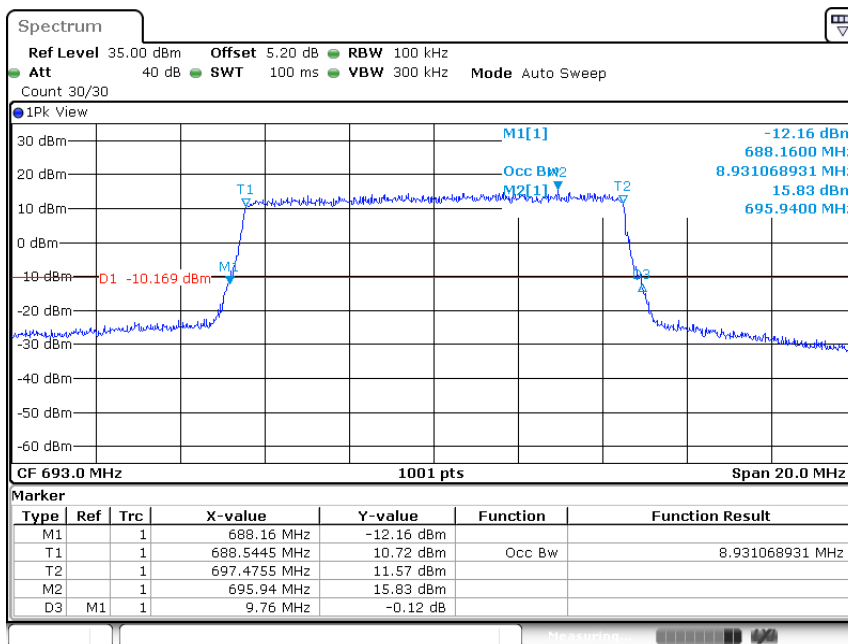
Band71-10MHz-QPSK-133297-50RB#0-8.891



Date: 23 NOV 2020 21:09:37

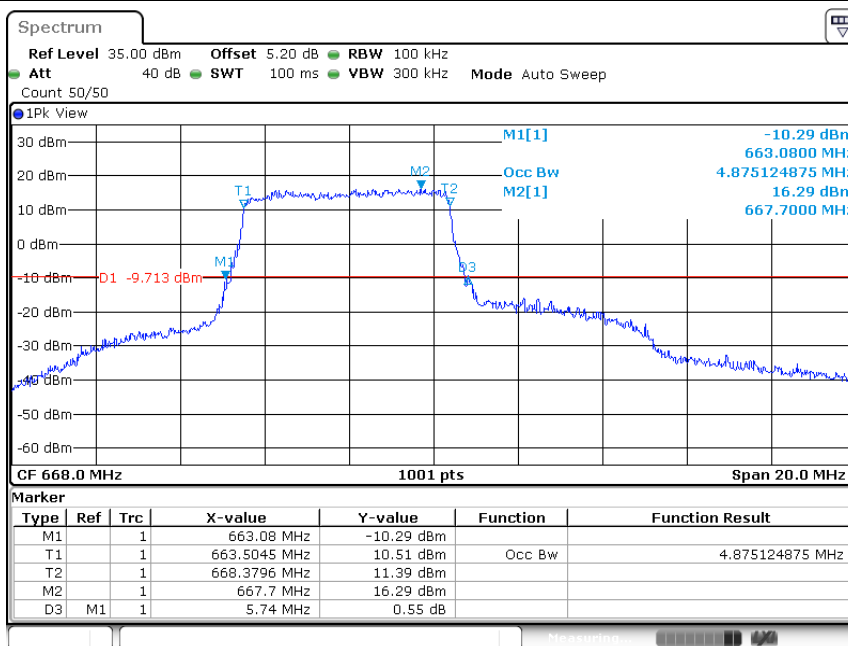


Band71-10MHz-QPSK-133422-50RB#0-8.931



Date: 23 NOV 2020 21:09:49

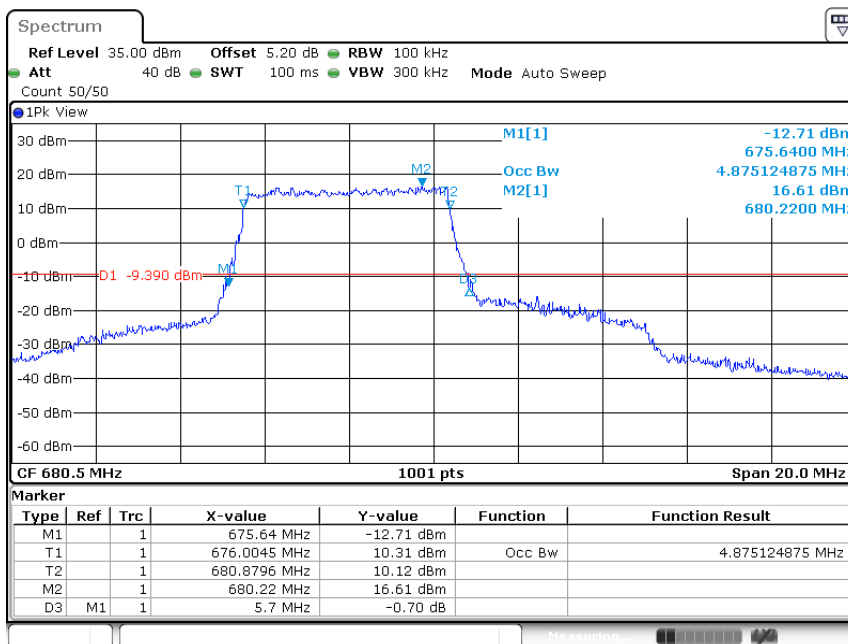
Band71-10MHz-16QAM-133172-27RB#0-4.875



Date: 18 NOV 2020 12:31:50

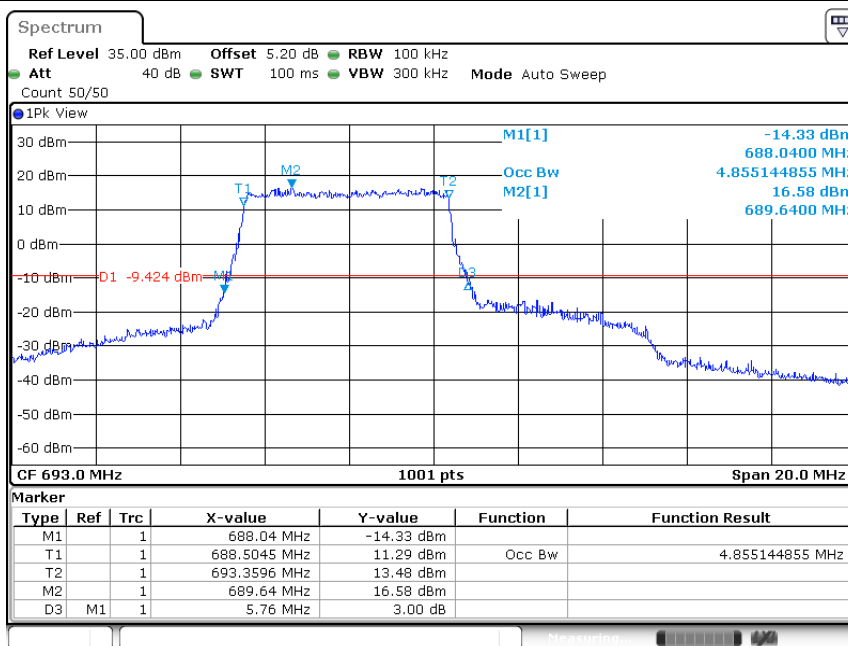


Band71-10MHz-16QAM-133297-27RB#0-4.875



Date: 18 NOV 2020 12:32:09

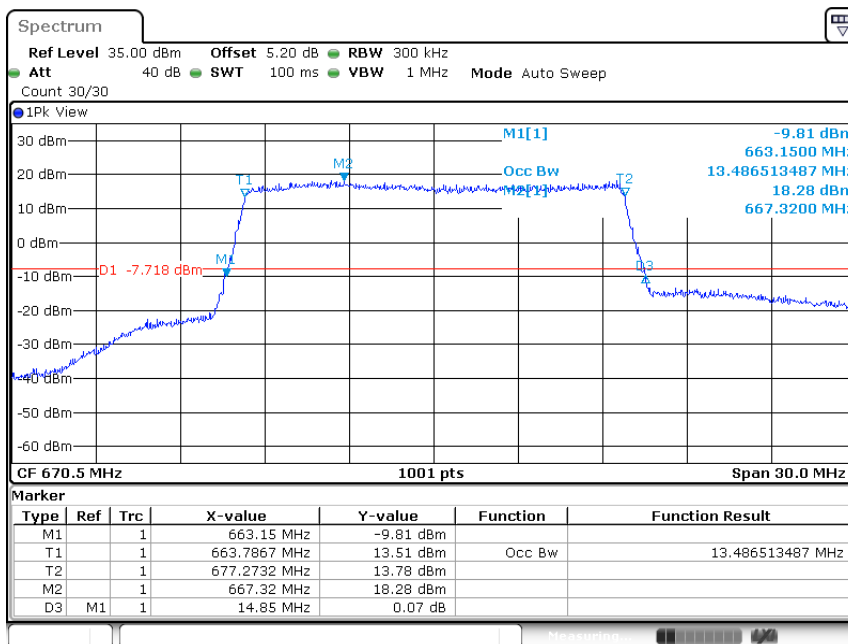
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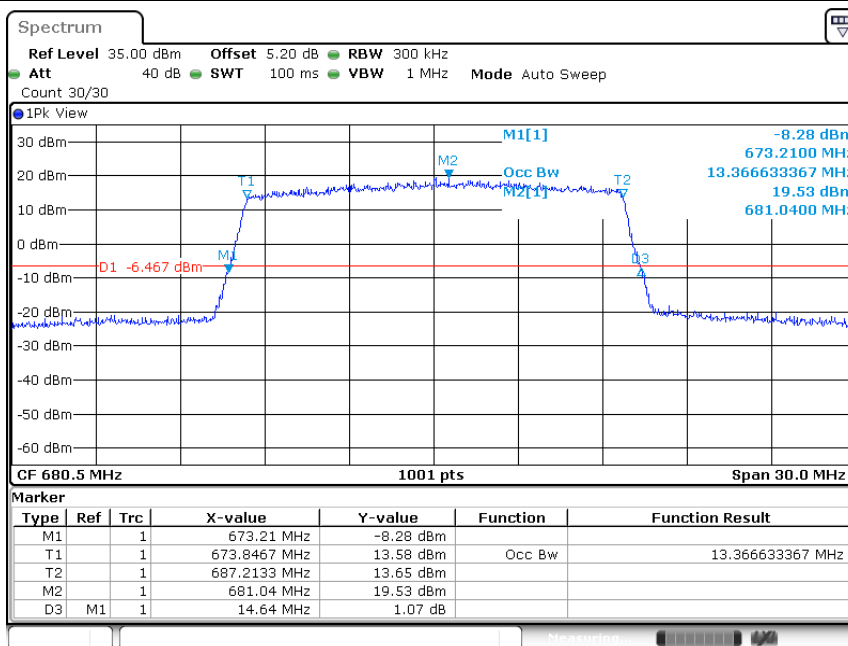


Band71-15MHz-QPSK-133197-75RB#0-13.487



Date: 23 NOV 2020 21:11:17

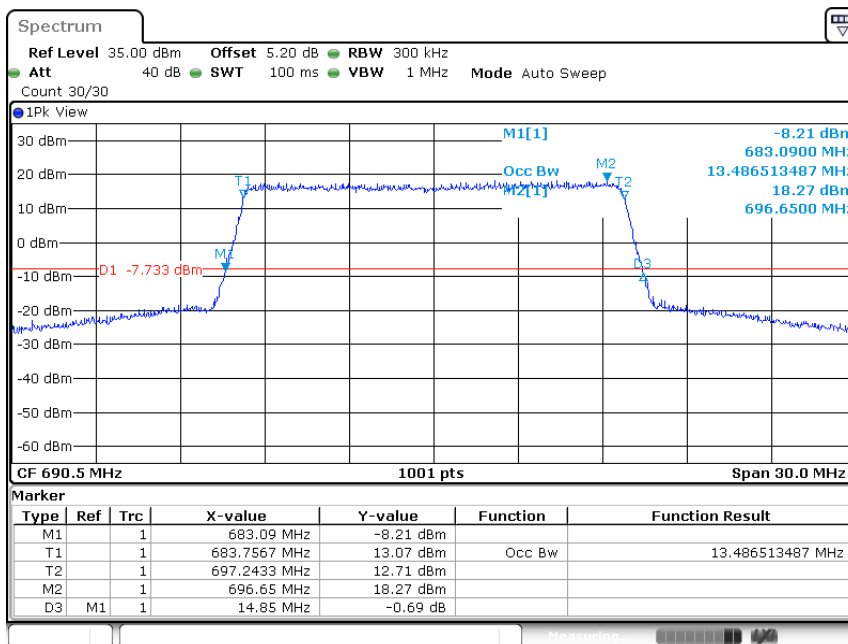
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Date: 23 NOV 2020 21:11:30

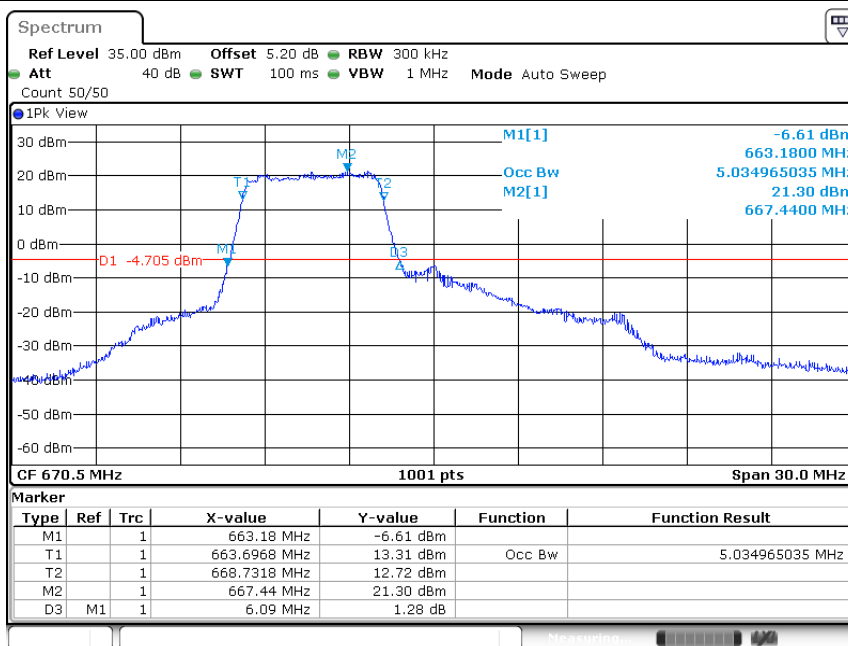


Band71-15MHz-QPSK-133397-75RB#0-13.487



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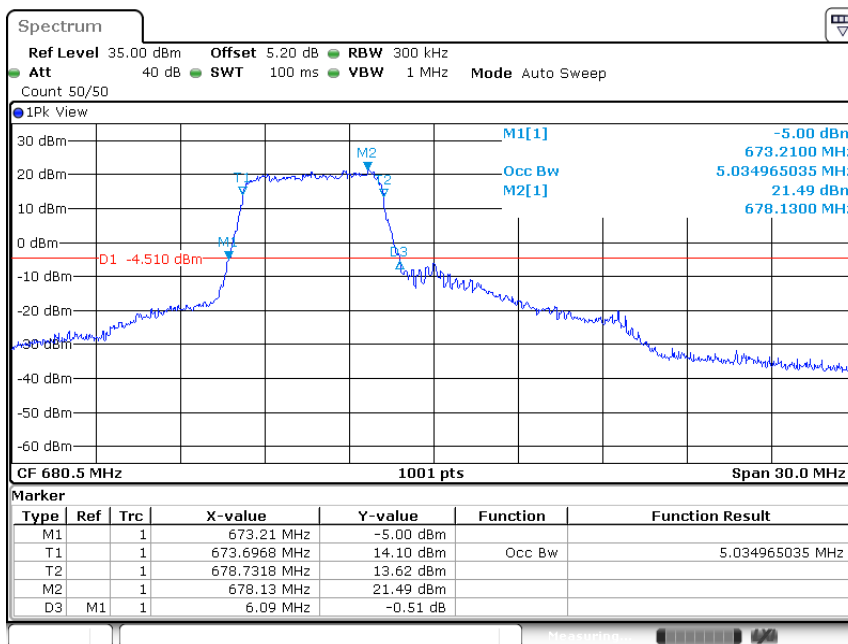
Band71-15MHz-16QAM-133197-27RB#0-5.035



Date: 18 NOV 2020 12:32:52

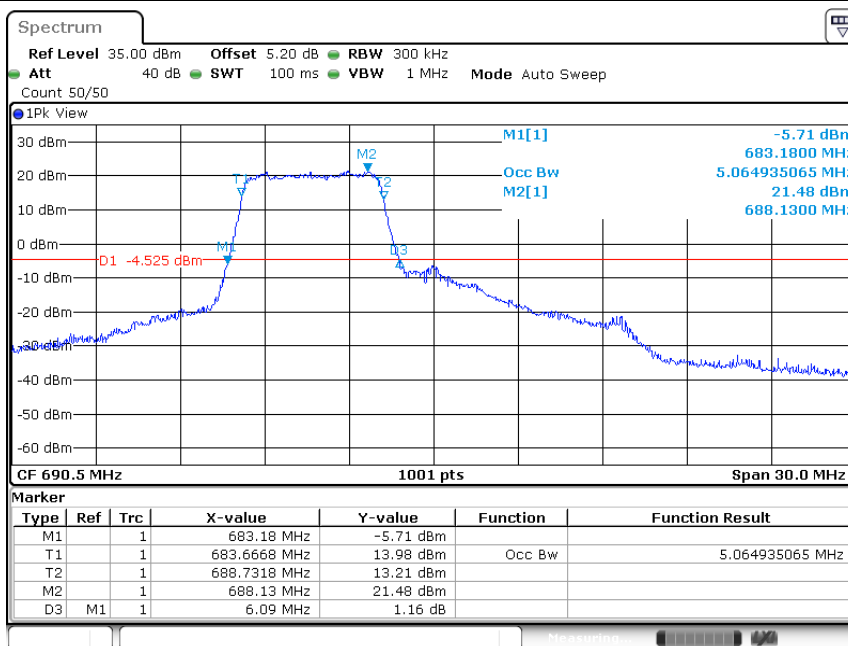


Band71-15MHz-16QAM-133297-27RB#0-5.035



Date: 18 NOV 2020 12:33:11

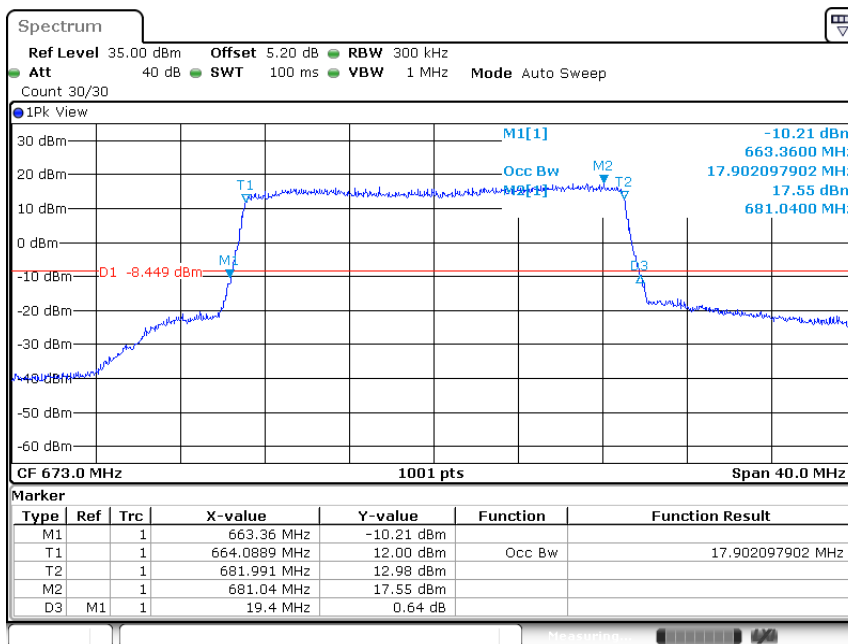
Band71-15MHz-16QAM-133397-27RB#0-5.065



Date: 18 NOV 2020 12:33:30

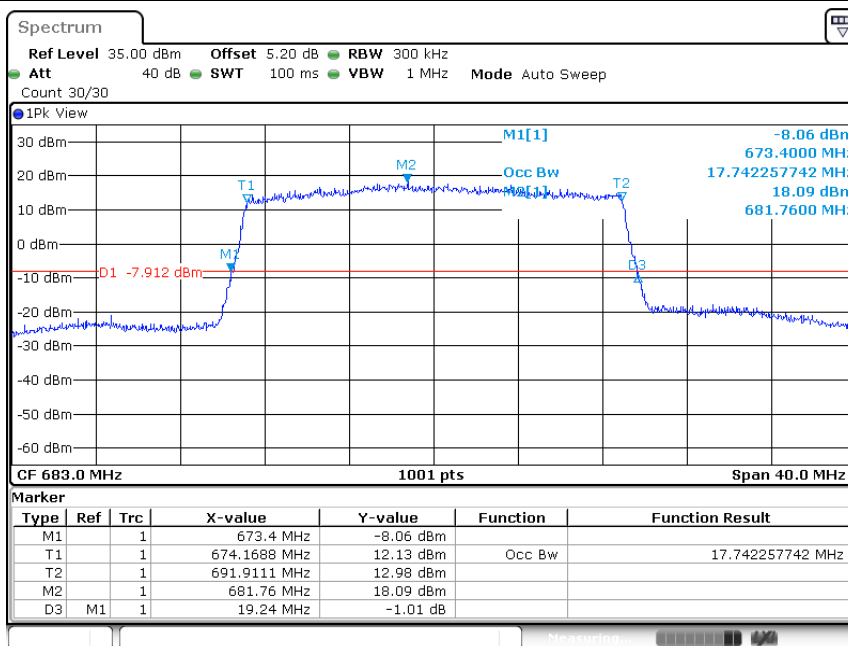


Band71-20MHz-QPSK-133222-100RB#0-17.902



Date: 23 NOV 2020 21:12:36

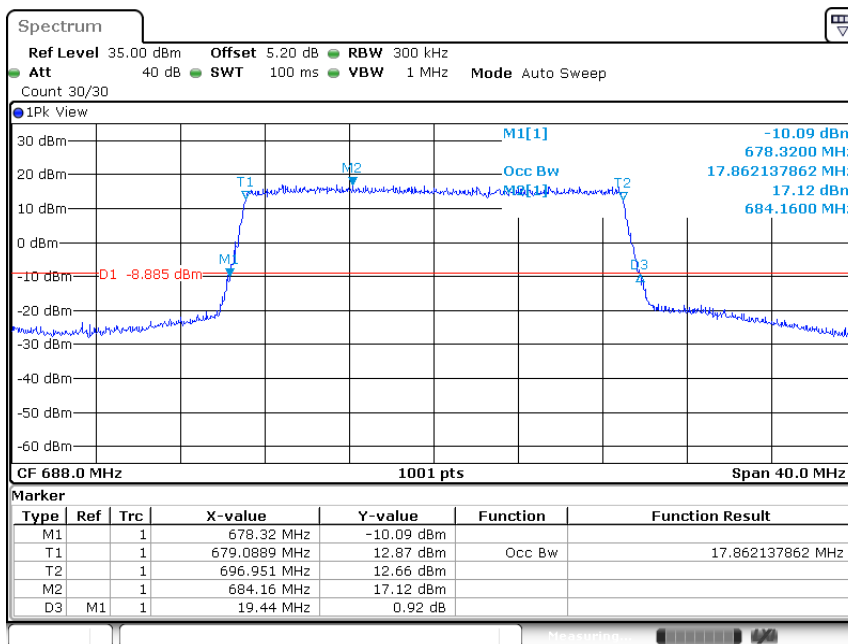
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Date: 23 NOV 2020 21:12:48

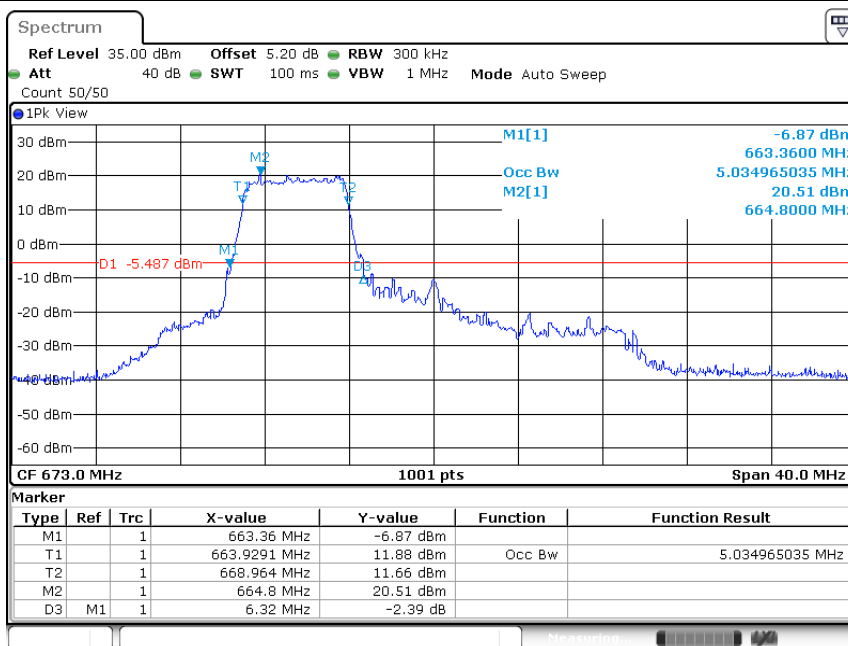


Band71-20MHz-QPSK-133372-100RB#0-17.862



Date: 23 NOV 2020 21:13:01

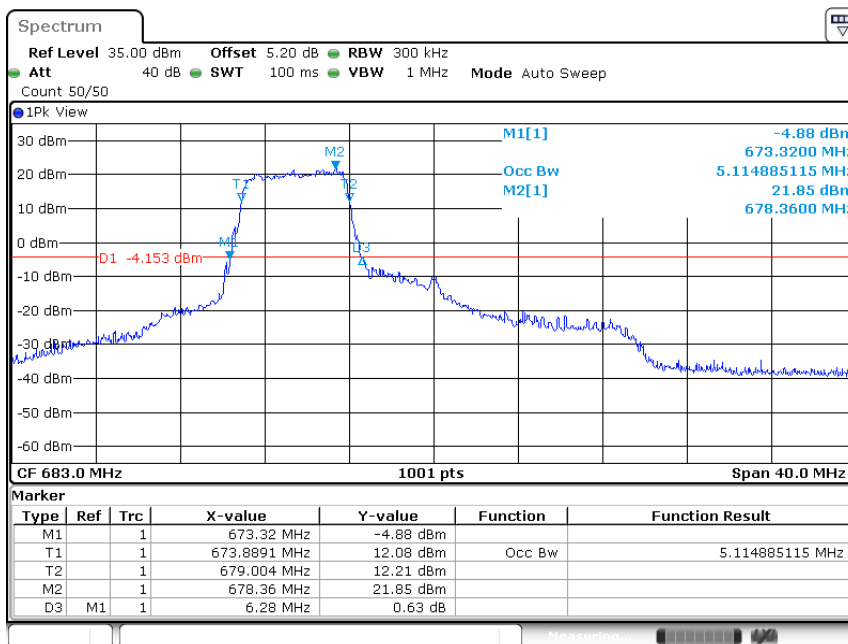
Band71-20MHz-16QAM-133222-27RB#0-5.035



Date: 18 NOV 2020 12:33:53

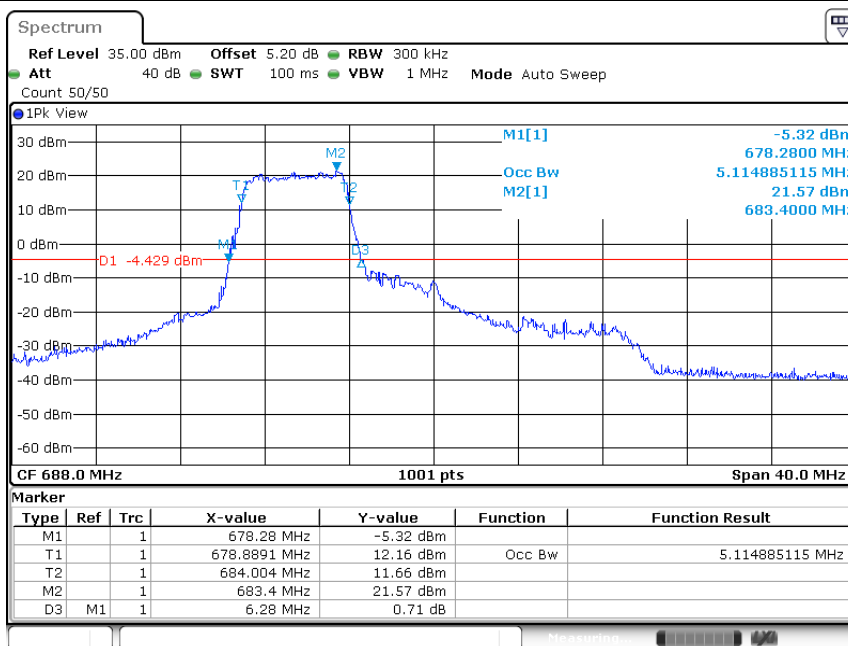


Band71-20MHz-16QAM-133322-27RB#0-5.115



Date: 18 NOV 2020 12:34:12

Band71-20MHz-16QAM-133372-27RB#0-5.115

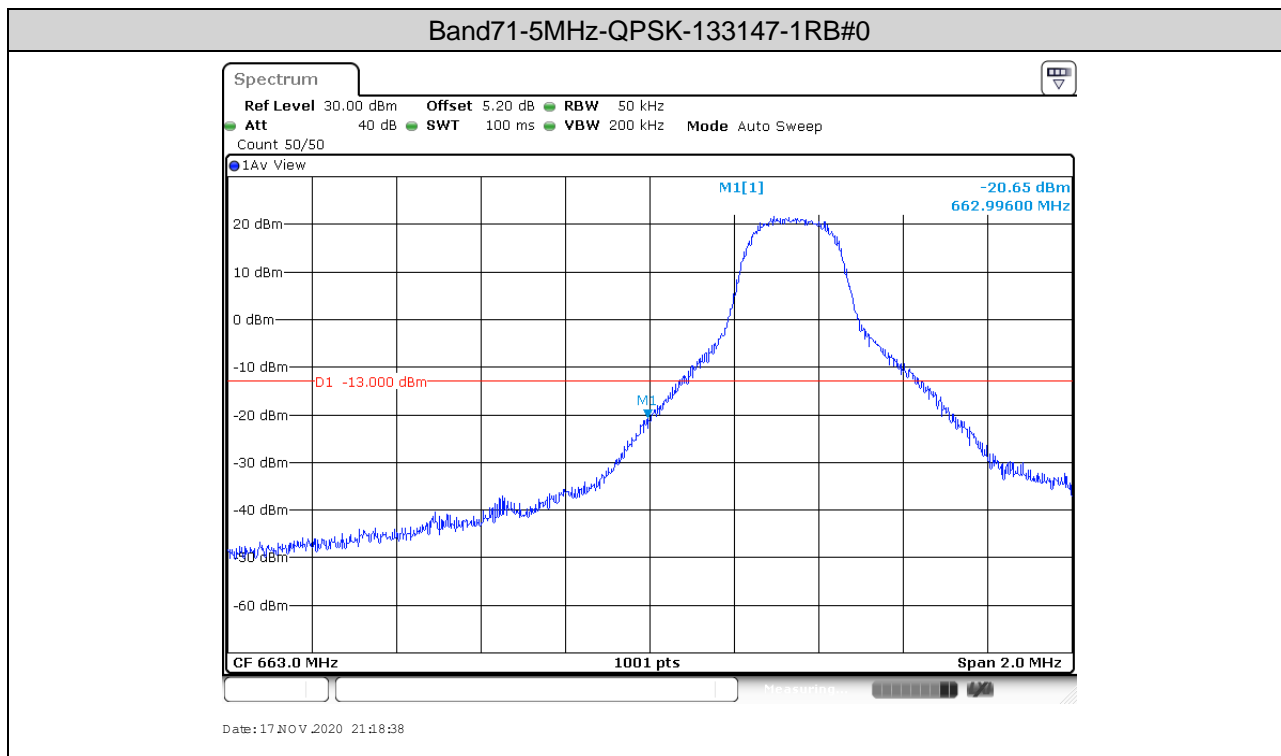


Date: 18 NOV 2020 12:34:30



5 Band Edge Compliance

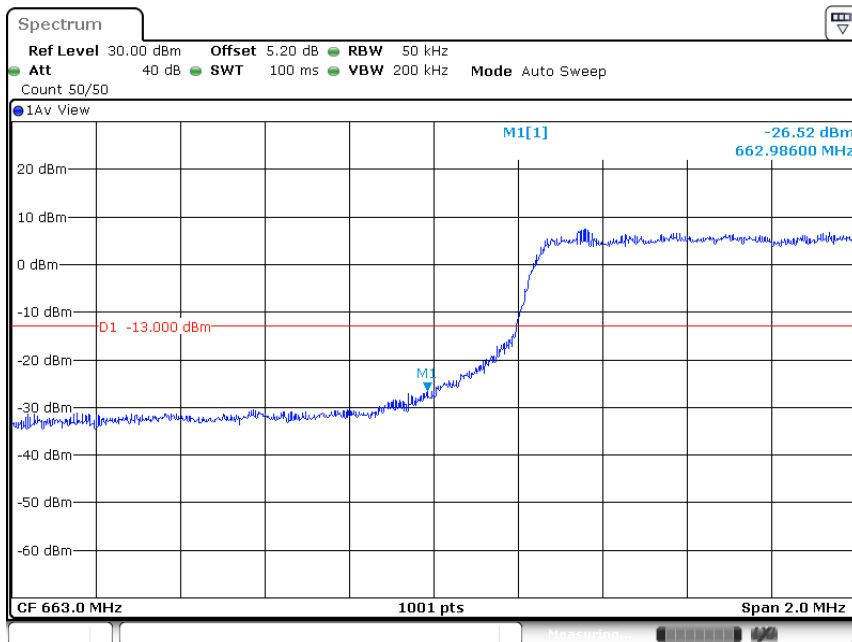
5.1 Test Plots



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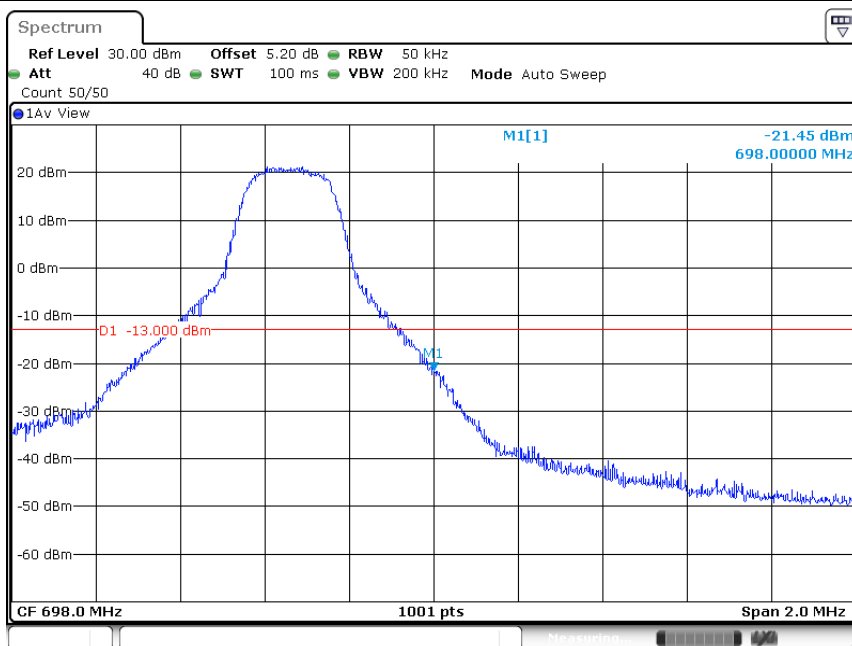
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Band71-5MHz-QPSK-133147-25RB#0



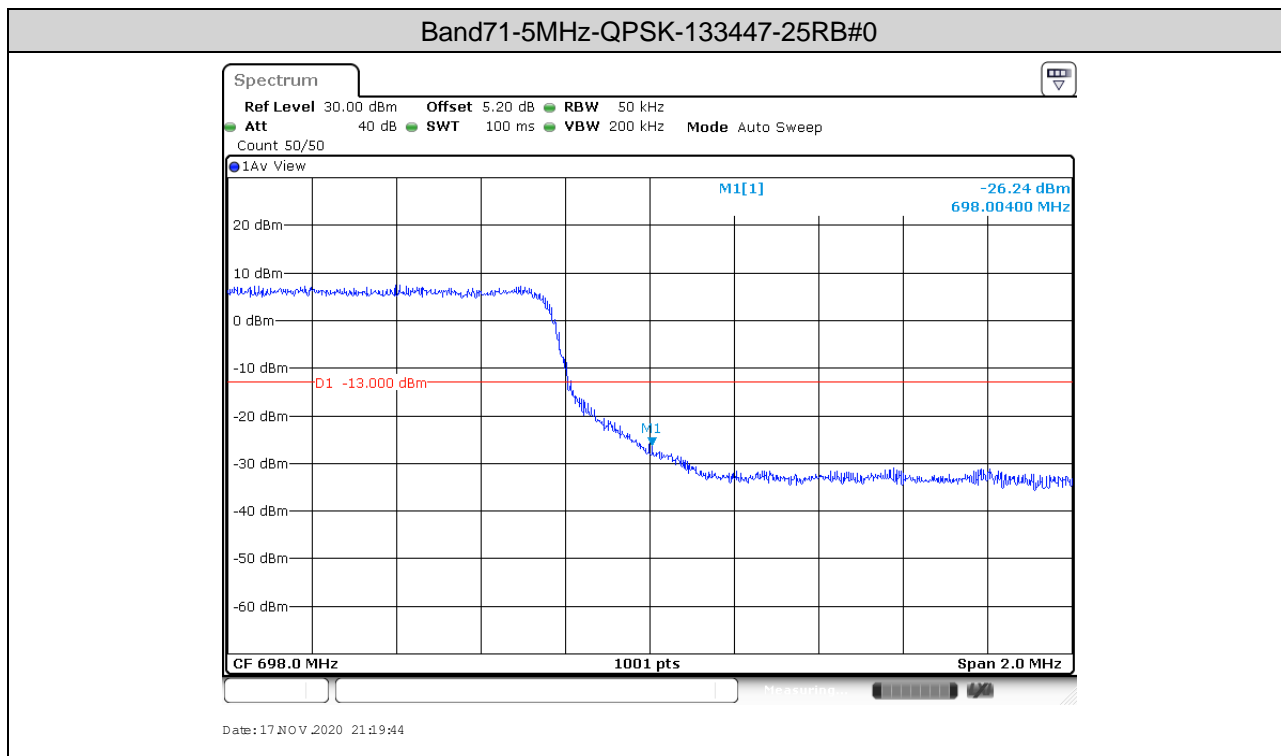
Date: 17 NOV 2020 21:18:57

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



Date: 17 NOV 2020 21:19:25

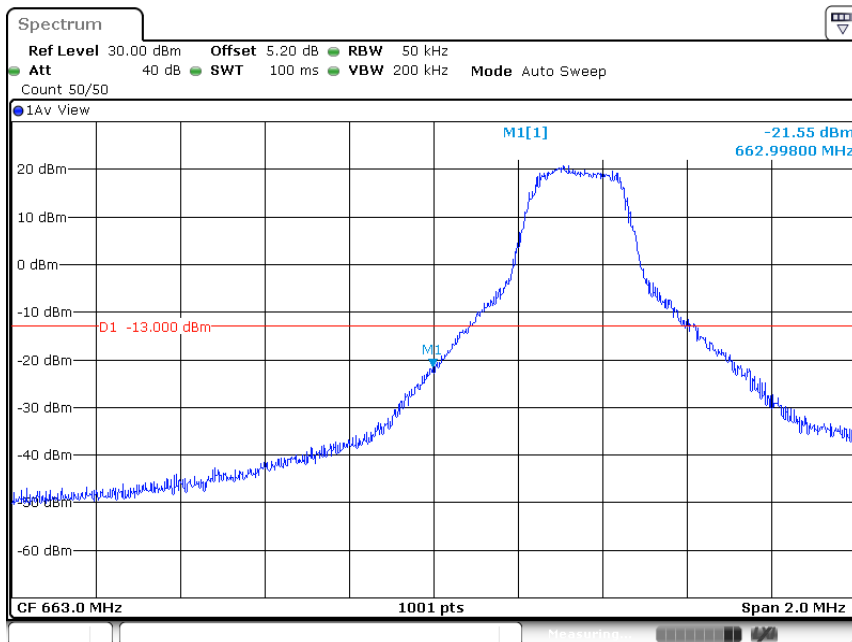




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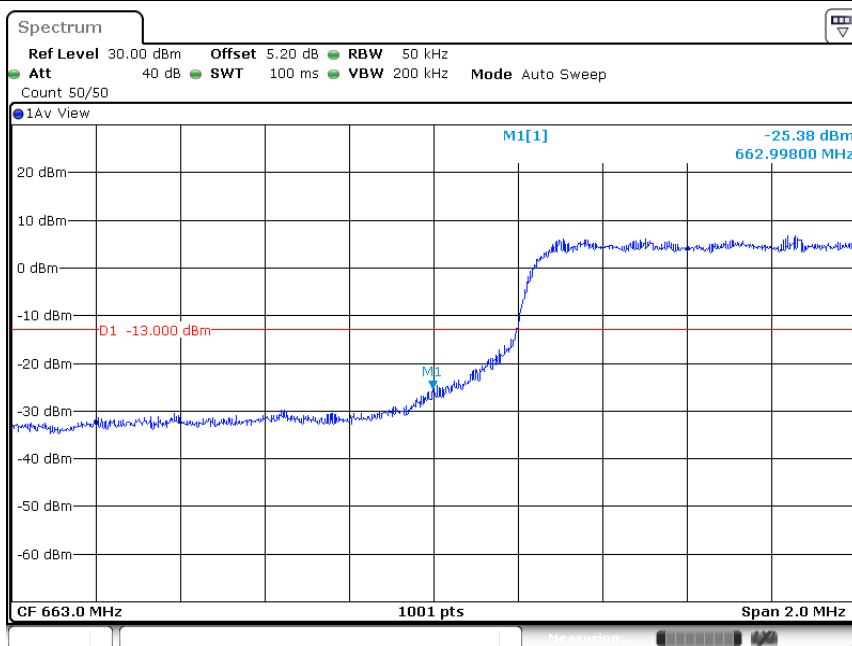
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Band71-5MHz-16QAM-133147-1RB#0



Date: 18 NOV 2020 13:54:11

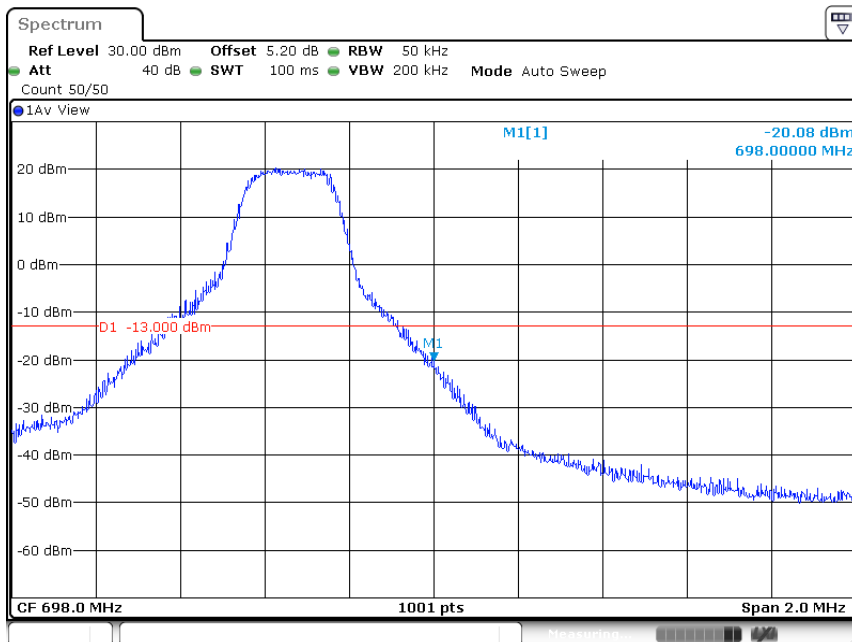
Band71-5MHz-16QAM-133147-25RB#0



Date: 18 NOV 2020 13:54:31

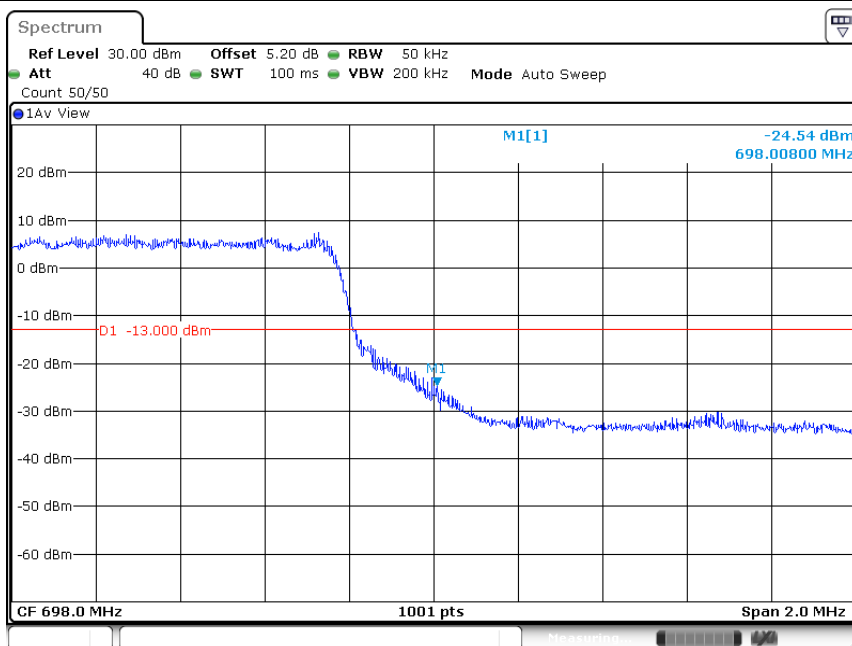


Band71-5MHz-16QAM-133447-1RB#24



Date: 18 NOV 2020 13:54:58

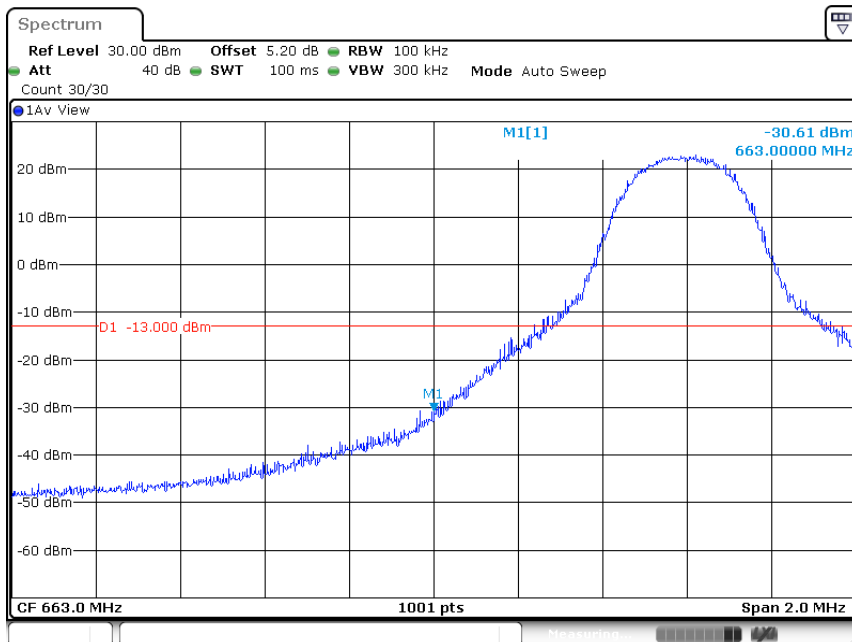
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Date: 18 NOV 2020 13:55:18

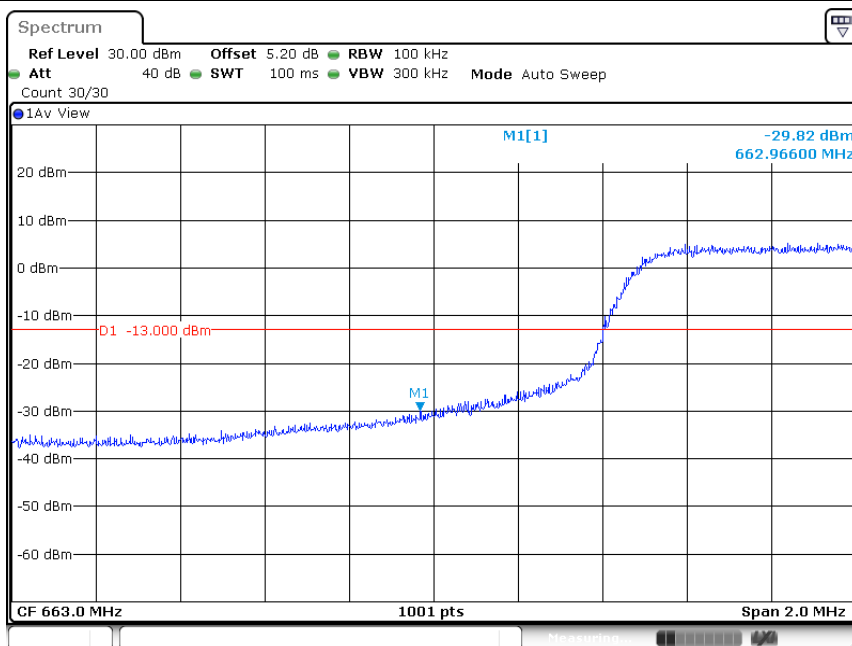


Band71-10MHz-QPSK-133172-1RB#0



Date: 23 NOV 2020 21:13:22

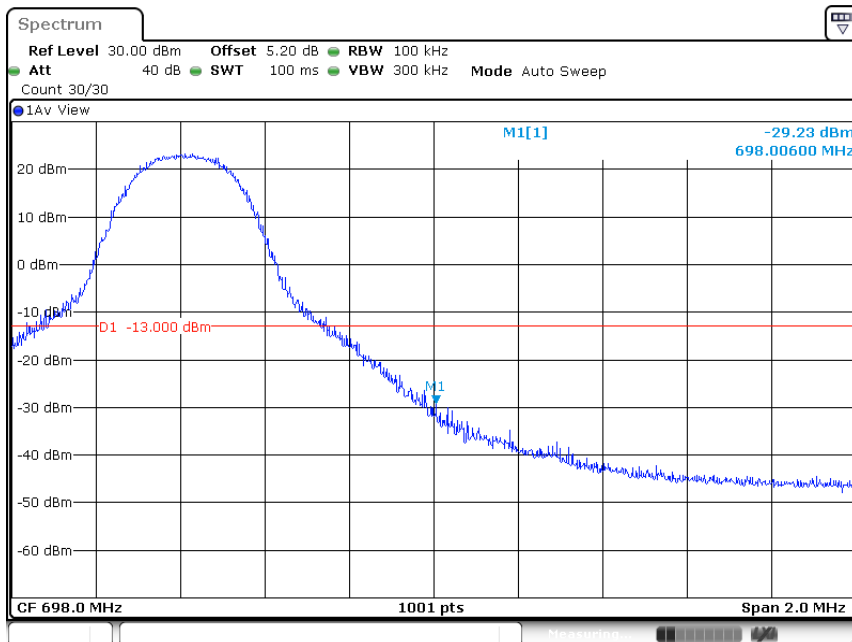
Band71-10MHz-QPSK-133172-50RB#0



Date: 23 NOV 2020 21:13:35

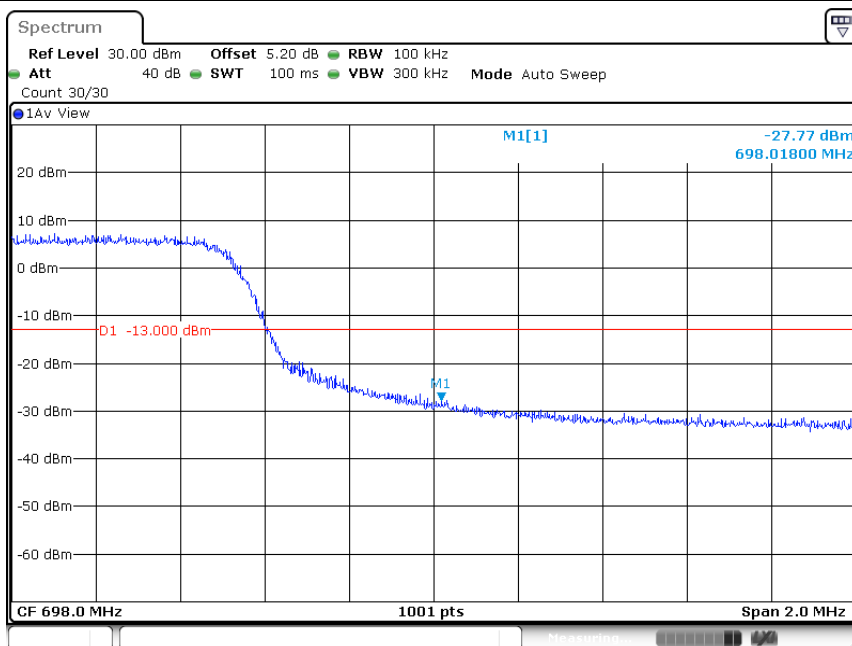


Band71-10MHz-QPSK-133422-1RB#49



Date: 23 NOV 2020 21:13:52

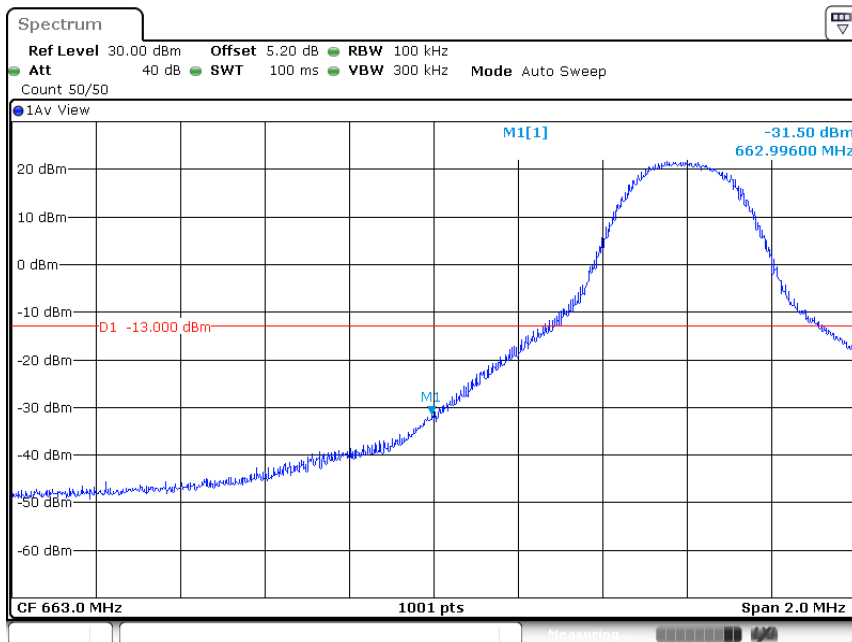
Band71-10MHz-QPSK-133422-50RB#0



Date: 23 NOV 2020 21:14:05

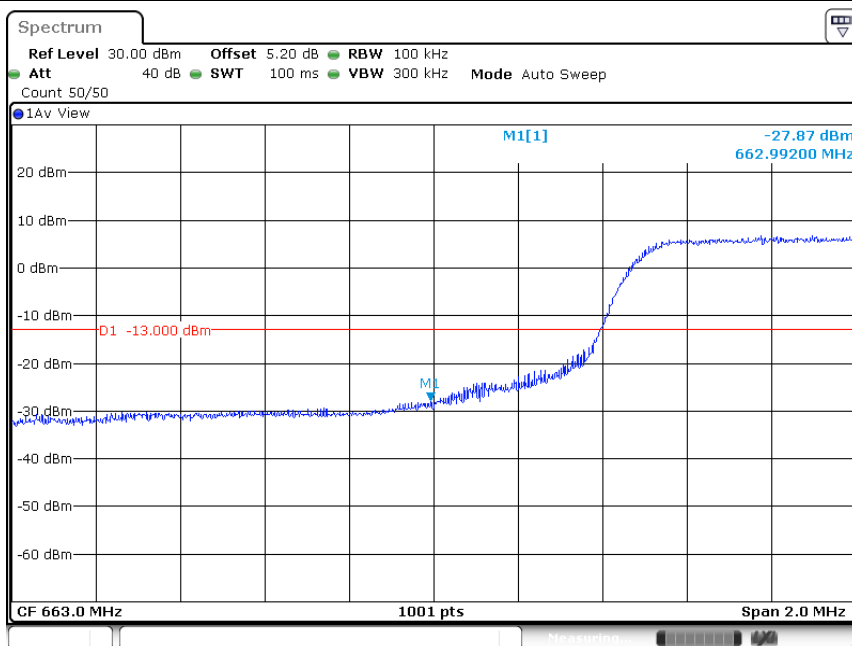


Band71-10MHz-16QAM-133172-1RB#0



Date: 18 NOV 2020 13:55:45

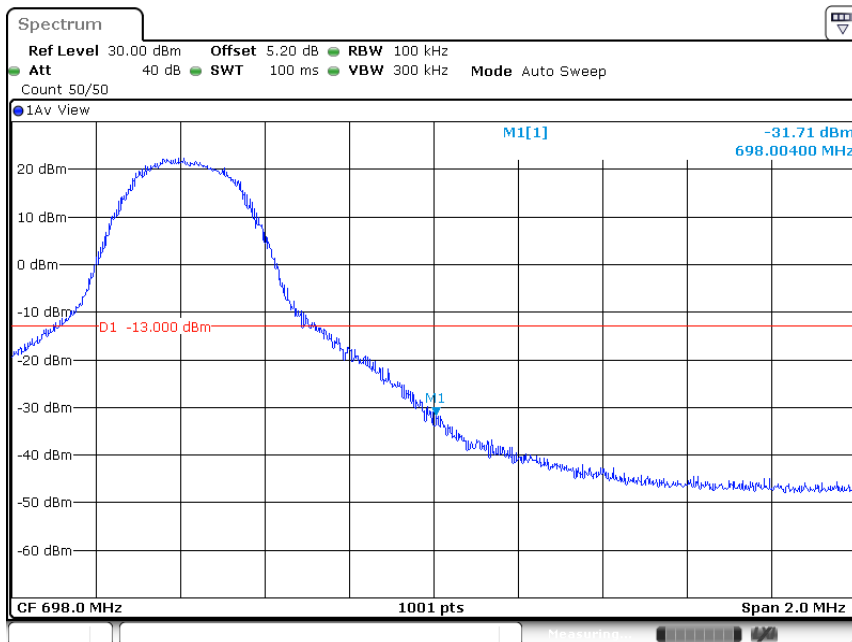
Band71-10MHz-16QAM-133172-27RB#0



Date: 18 NOV 2020 13:56:05

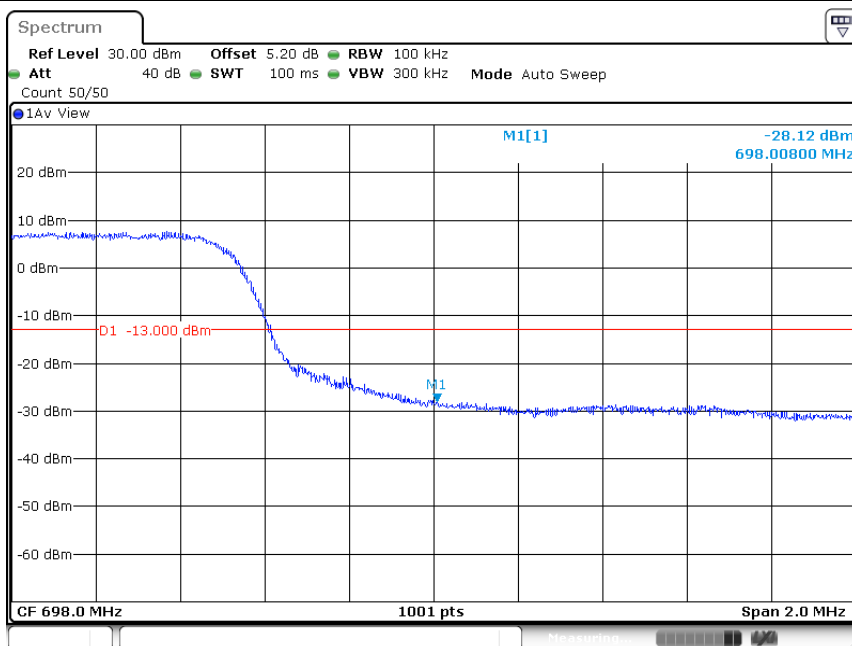


Band71-10MHz-16QAM-133422-1RB#49



Date: 18 NOV 2020 13:56:32

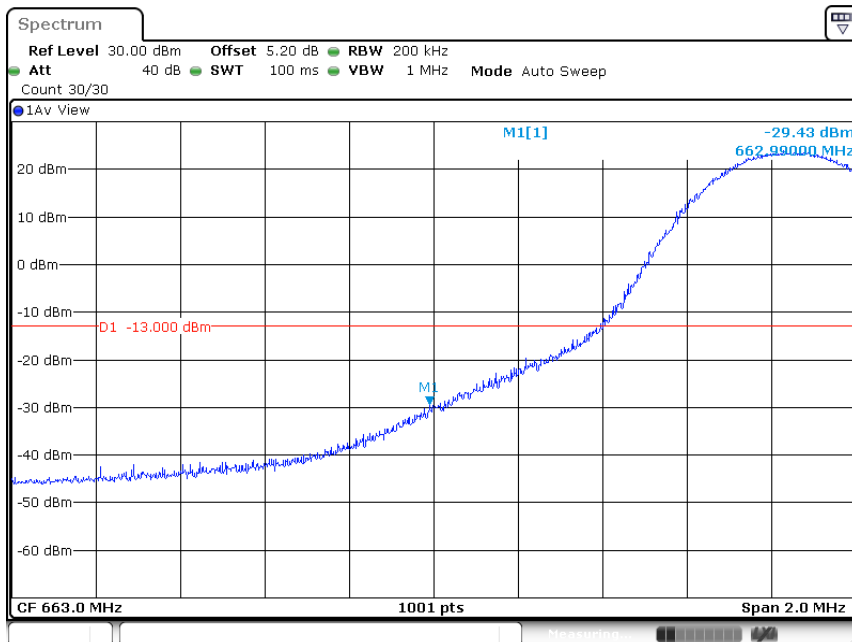
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Date: 18 NOV 2020 13:56:52

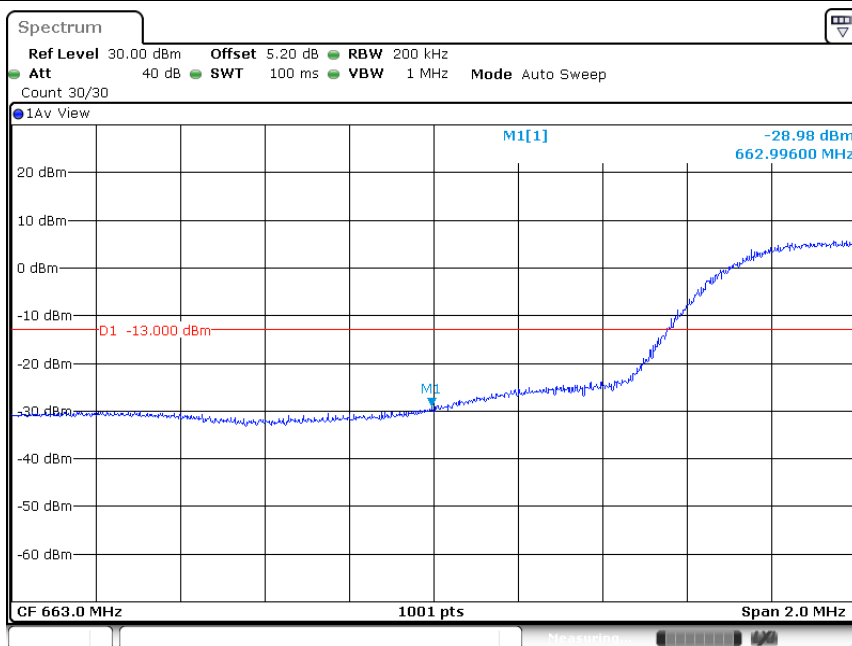


Band71-15MHz-QPSK-133197-1RB#0



Date: 23 NOV 2020 21:14:43

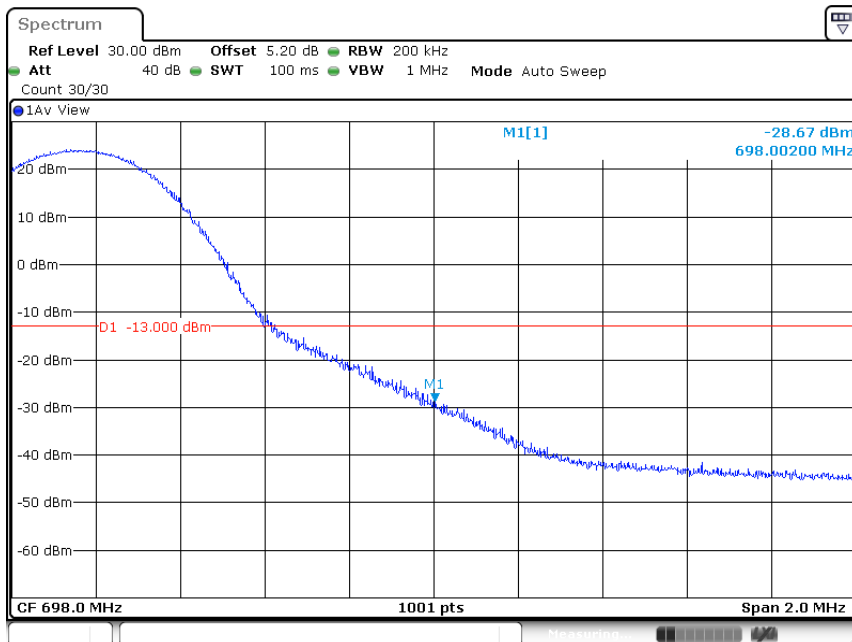
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Date: 23 NOV 2020 21:14:57

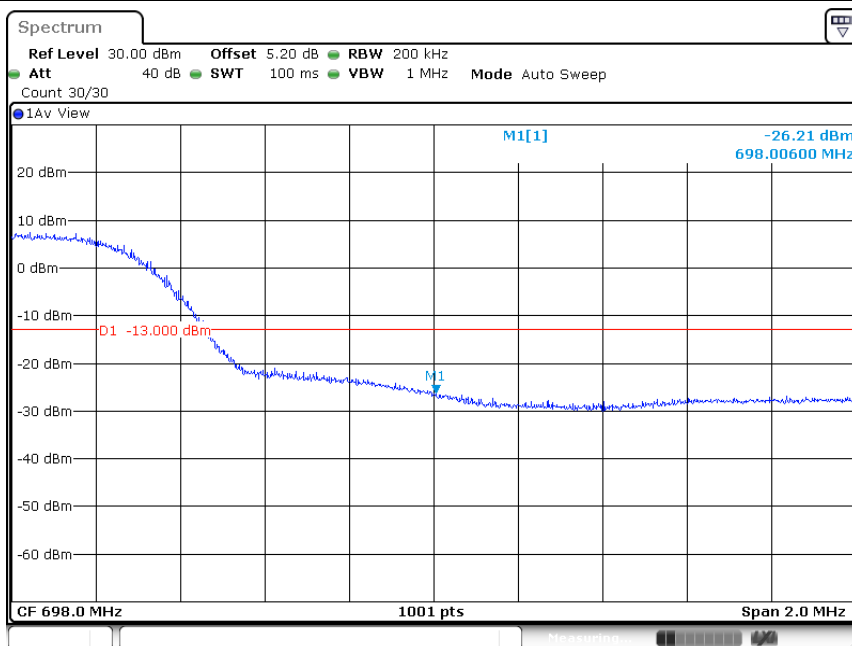


Band71-15MHz-QPSK-133397-1RB#74



Date: 23 NOV 2020 21:15:14

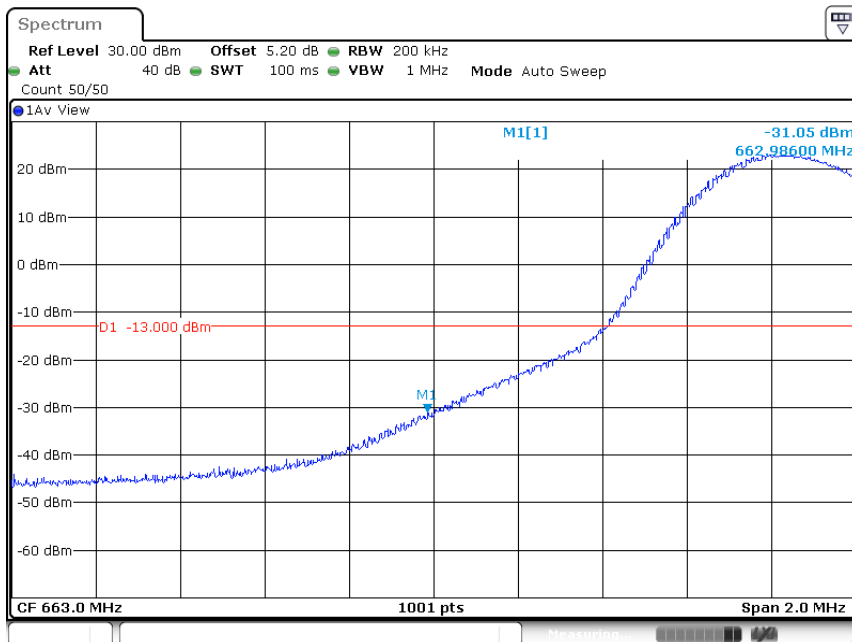
Band71-15MHz-QPSK-133397-75RB#0



Date: 23 NOV 2020 21:15:28

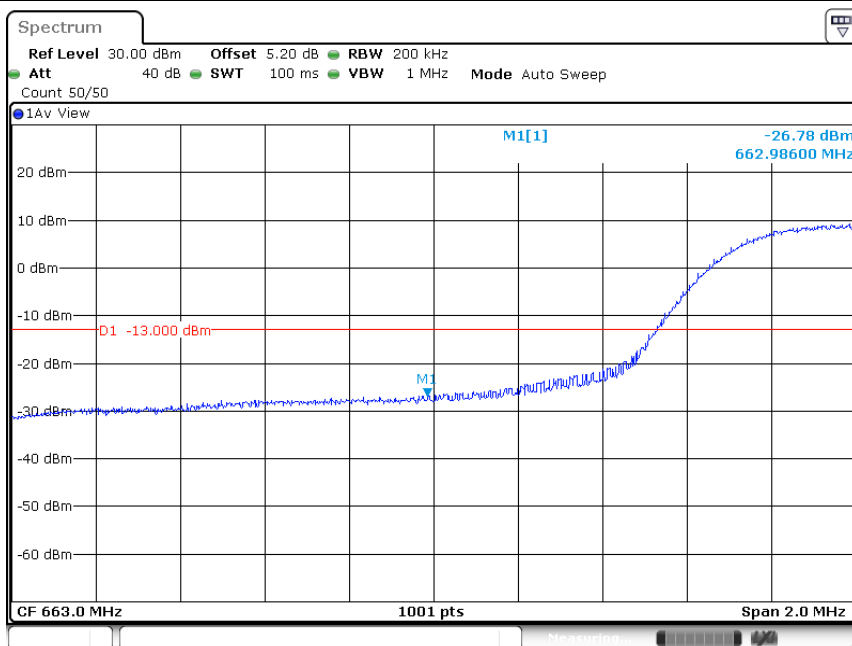


Band71-15MHz-16QAM-133197-1RB#0



Date: 18 NOV 2020 13:57:20

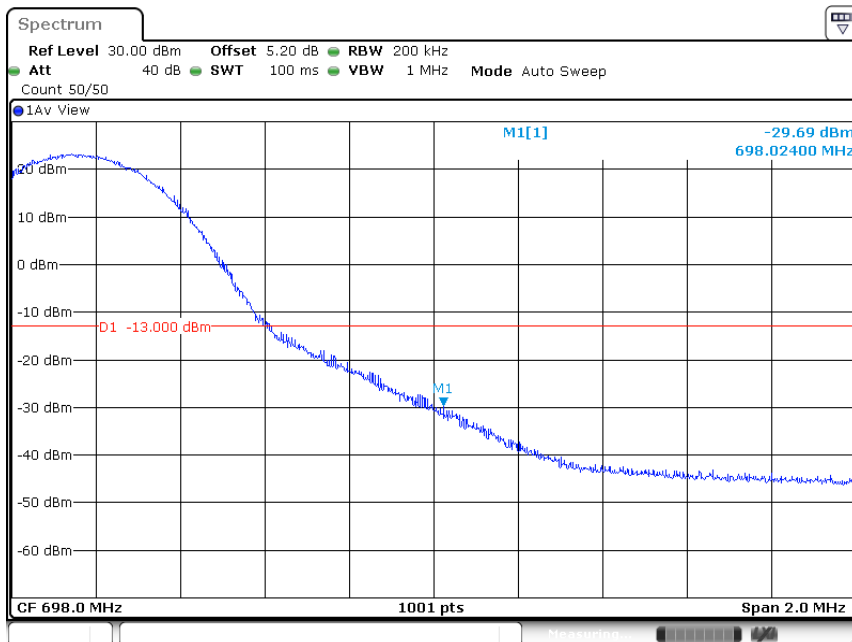
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Date: 18 NOV 2020 13:57:39

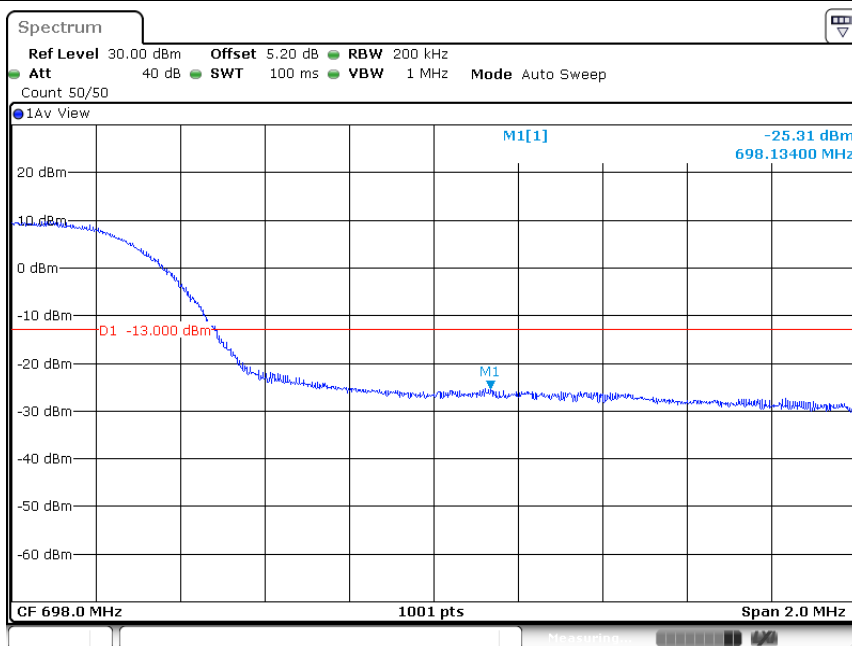


Band71-15MHz-16QAM-133397-1RB#74



Date: 18 NOV 2020 13:58:07

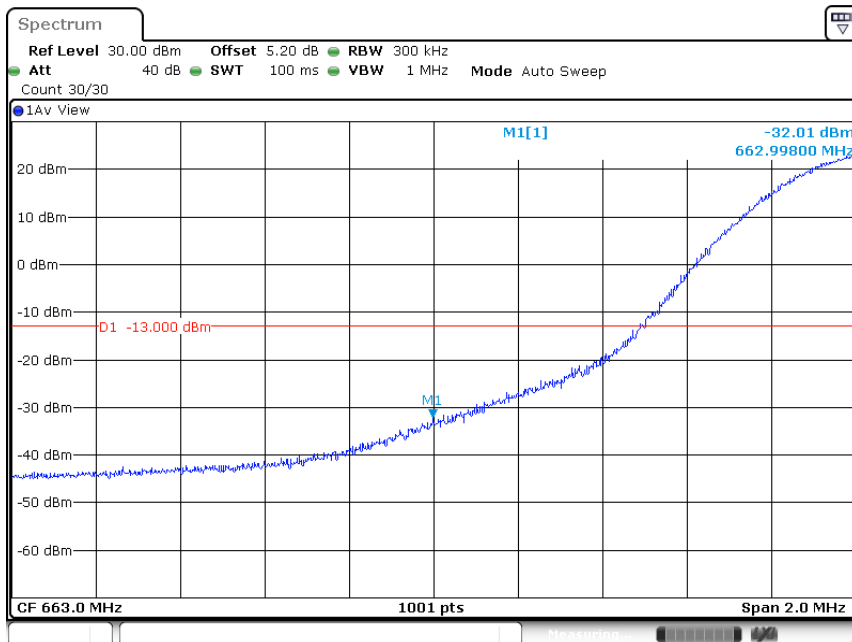
Band71-15MHz-16QAM-133397-27RB#48



Date: 18 NOV 2020 13:58:27

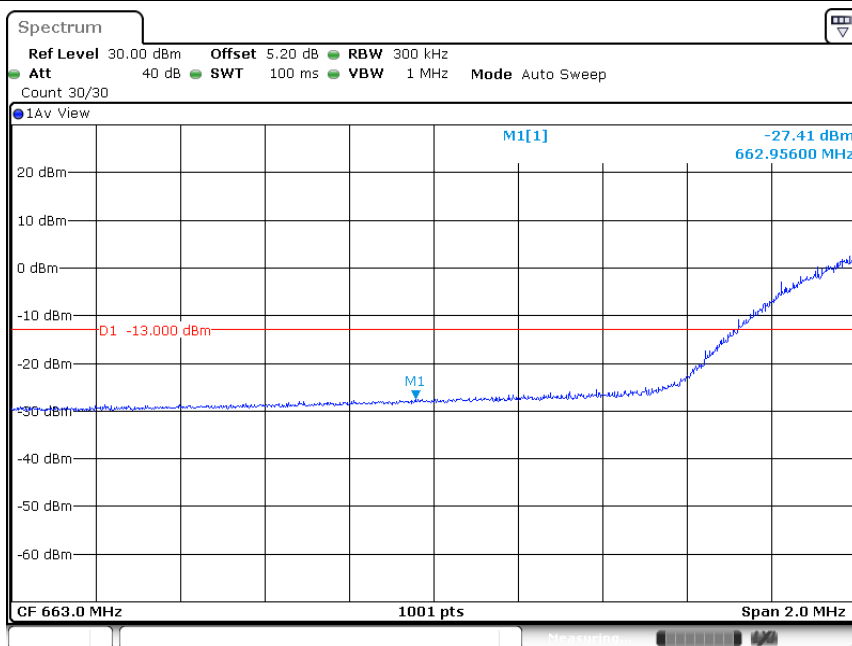


Band71-20MHz-QPSK-133222-1RB#0



Date: 23 NOV 2020 21:16:06

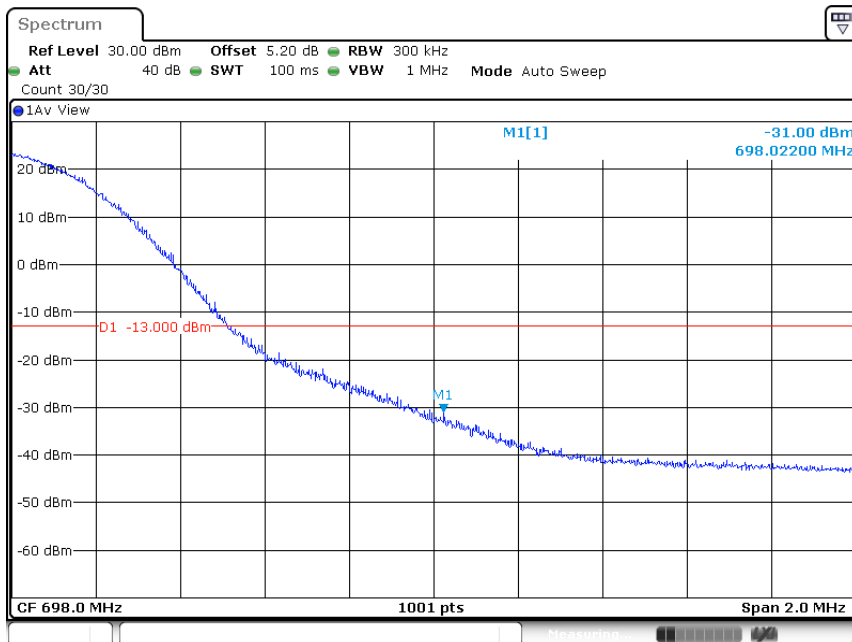
Band71-20MHz-QPSK-133222-100RB#0



Date: 23 NOV 2020 21:16:19

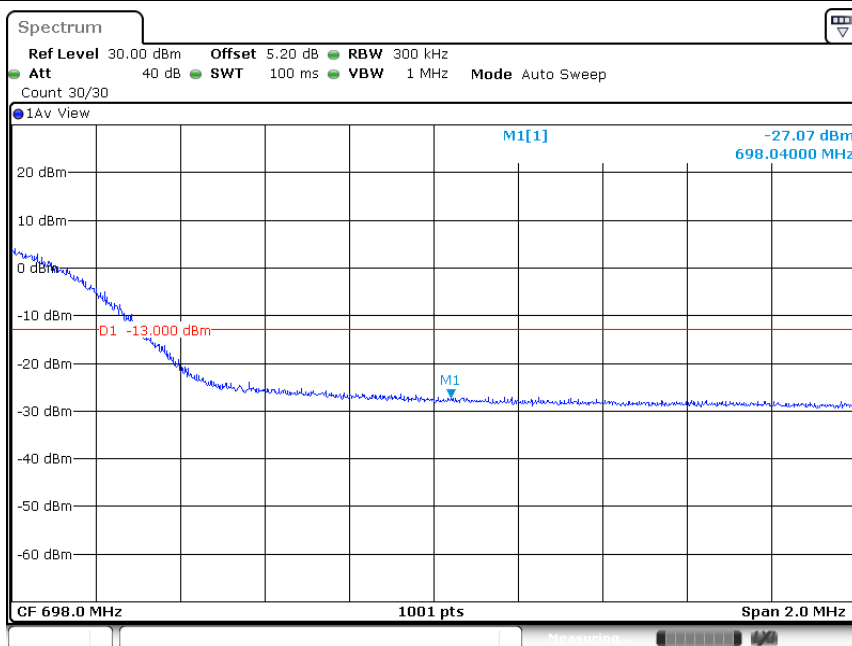


Band71-20MHz-QPSK-133372-1RB#99



Date: 23 NOV 2020 21:16:37

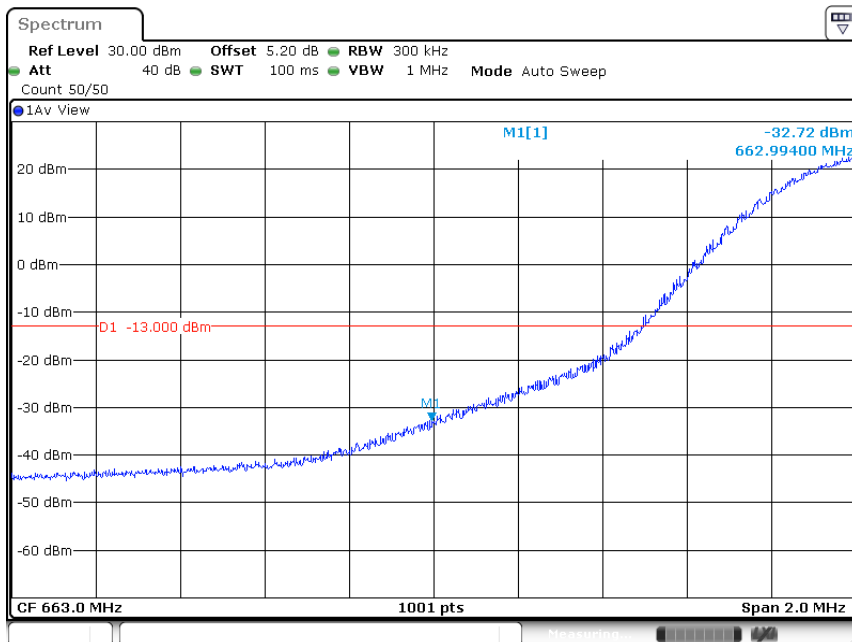
Band71-20MHz-QPSK-133372-100RB#0



Date: 23 NOV 2020 21:16:50

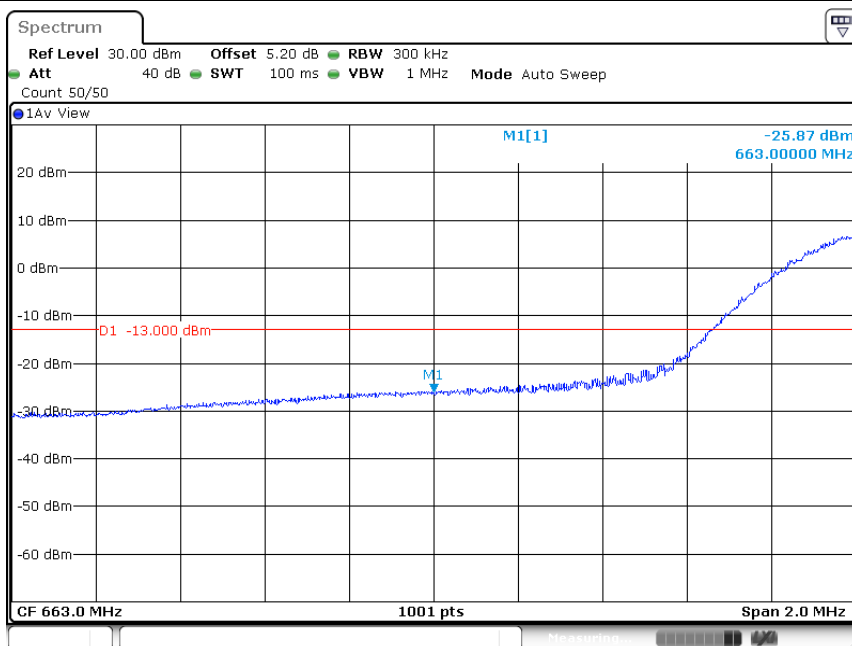


Band71-20MHz-16QAM-133222-1RB#0



Date: 18 NOV 2020 13:58:55

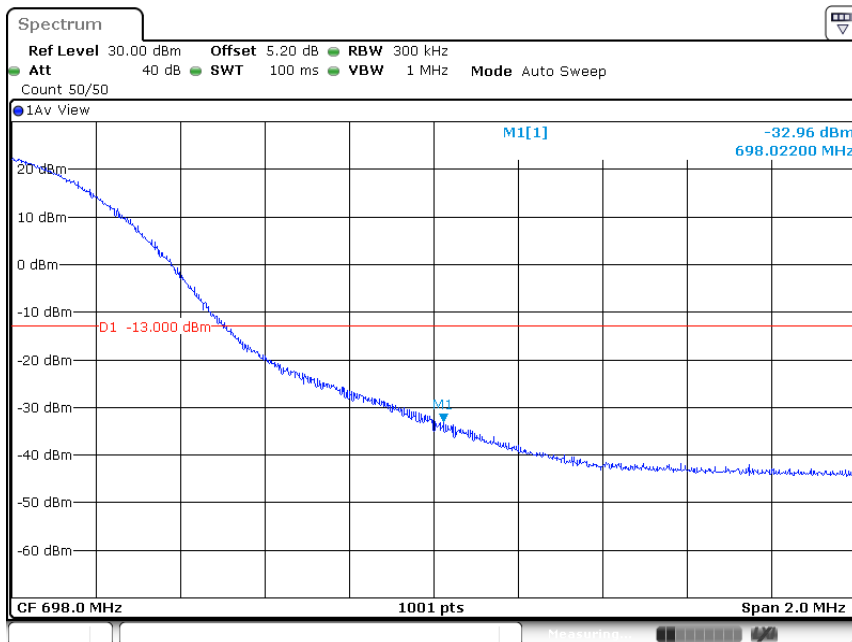
Band71-20MHz-16QAM-133222-27RB#0



Date: 18 NOV 2020 13:59:14

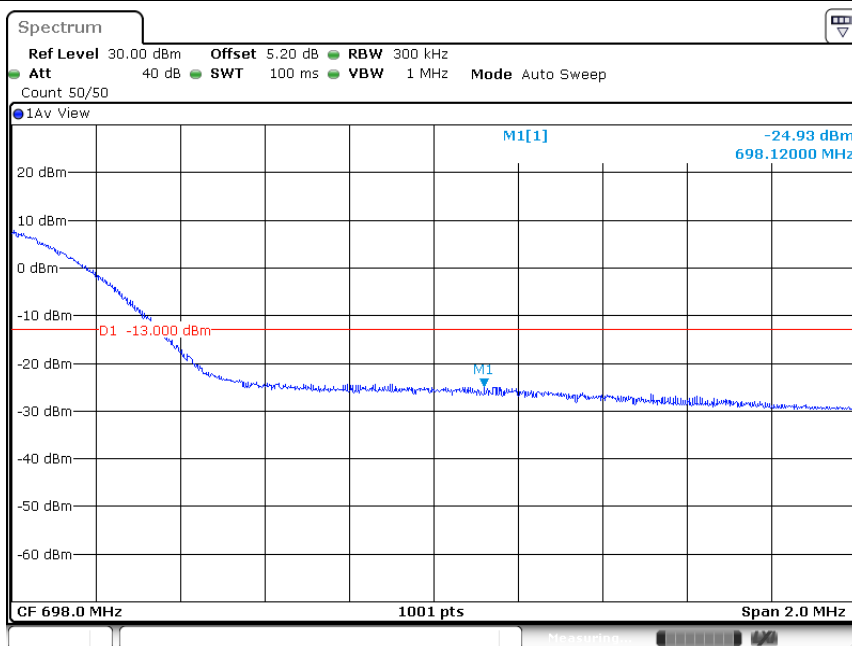


Band71-20MHz-16QAM-133372-1RB#99



Date: 18 NOV 2020 13:59:42

Band71-20MHz-16QAM-133372-27RB#73



Date: 18 NOV 2020 14:00:01

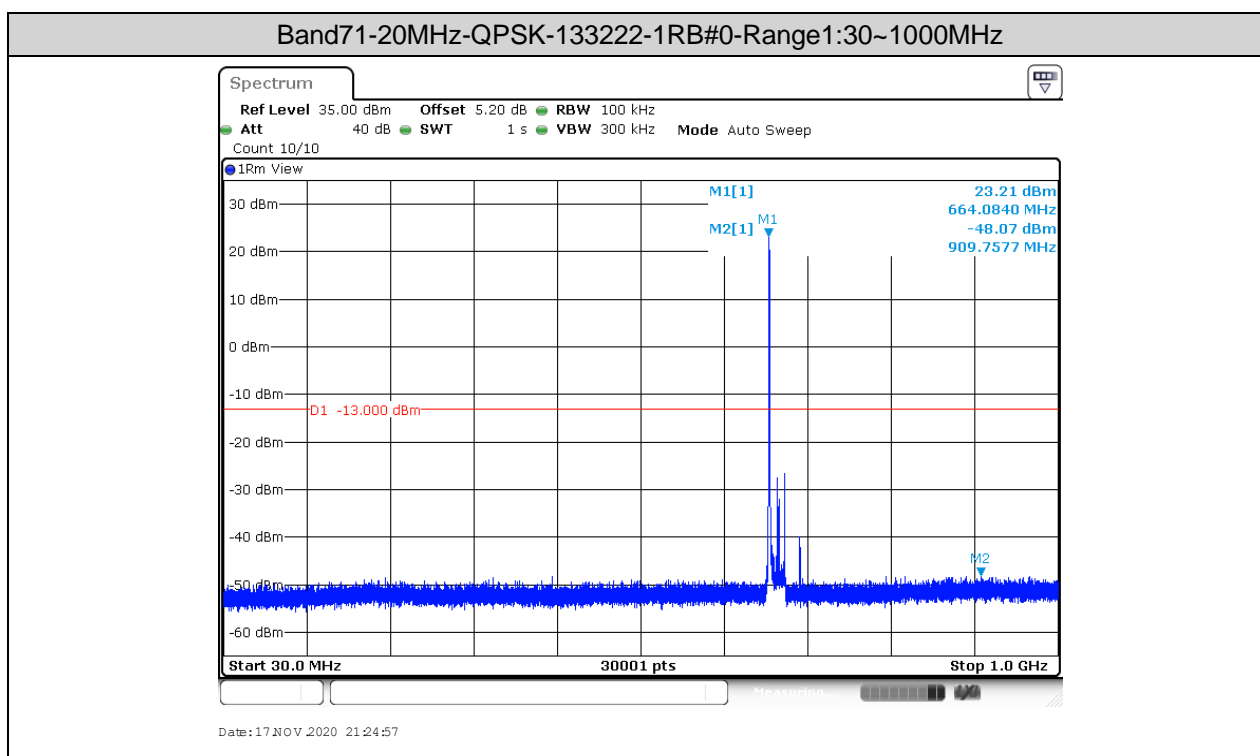


6 Spurious Emission at Antenna Terminal

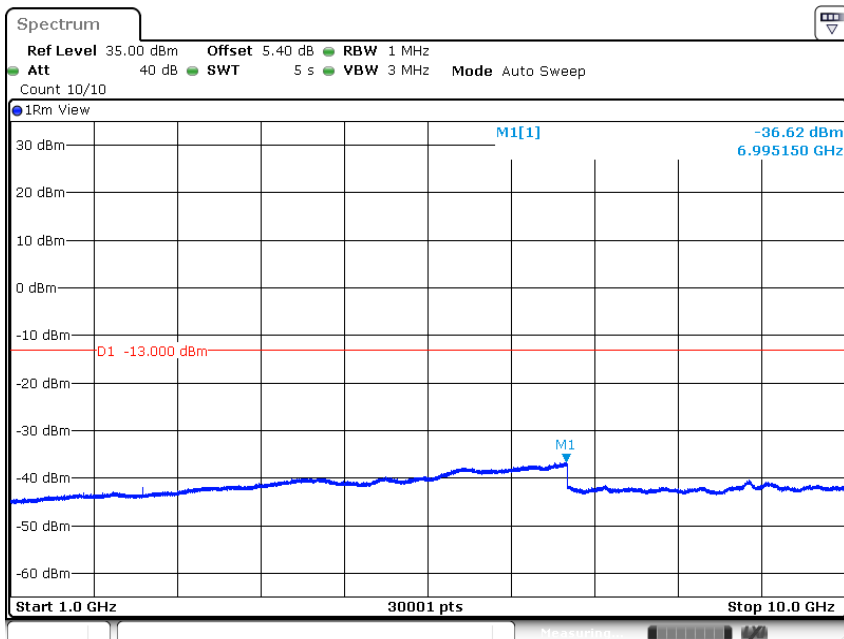
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

Remark2: only the worst case data displayed in this report.

6.1 Test Plots

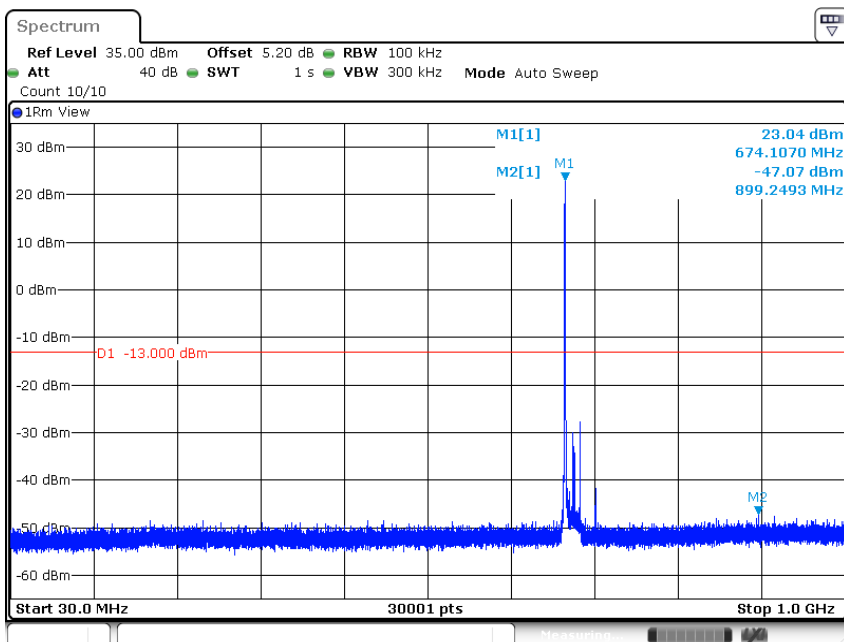


Band71-20MHz-QPSK-133222-1RB#0-Range2:1000~10000MHz



Date: 17 NOV 2020 21:26:08

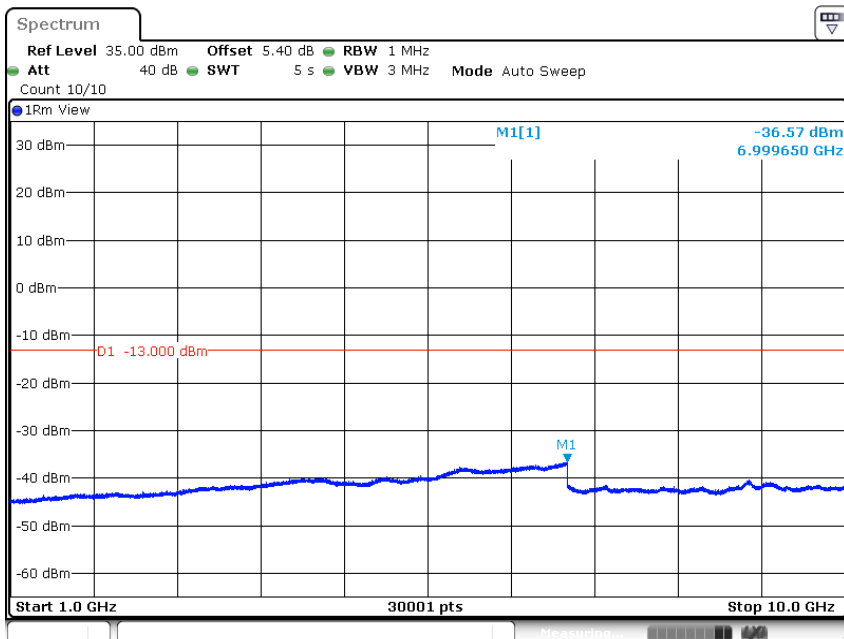
Band71-20MHz-QPSK-133322-1RB#0-Range1:30~1000MHz



Date: 17 NOV 2020 21:26:34

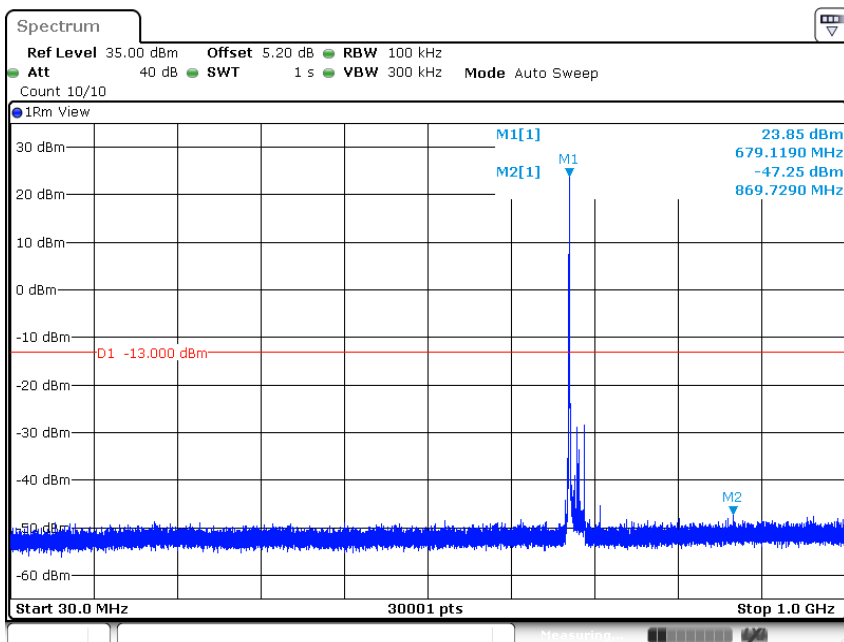


Band71-20MHz-QPSK-133322-1RB#0-Range2:1000~10000MHz



Date: 17 NOV 2020 21:27:45

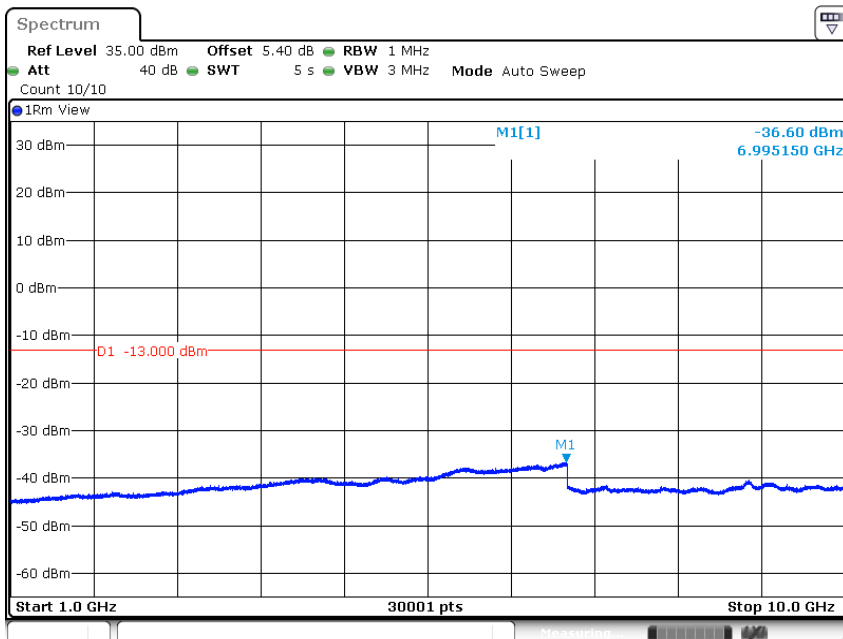
Band71-20MHz-QPSK-133372-1RB#0-Range1:30~1000MHz



Date: 17 NOV 2020 21:28:10

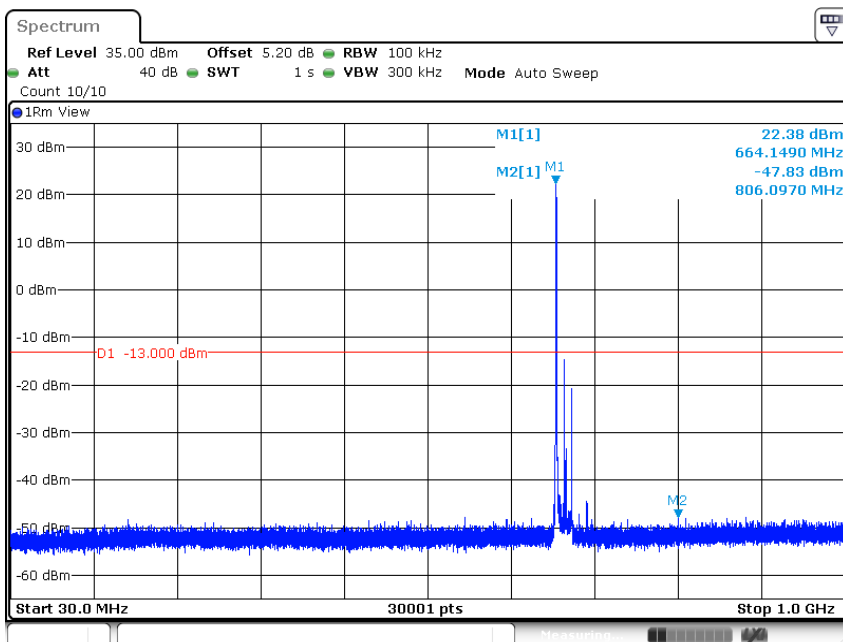


Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~10000MHz



Date: 17 NOV 2020 21:29:21

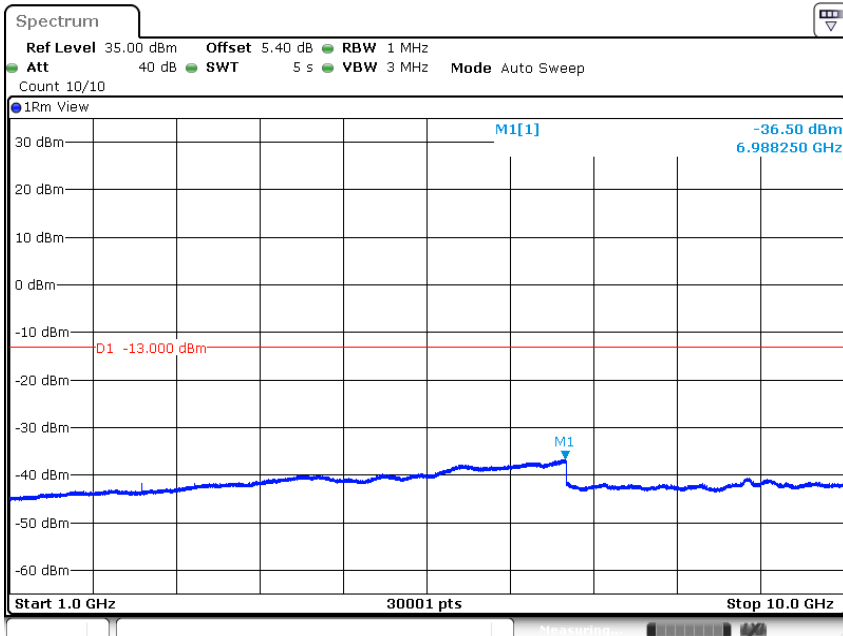
Band71-20MHz-16QAM-133222-1RB#0-Range1:30~1000MHz



Date: 18 NOV 2020 14:00:31

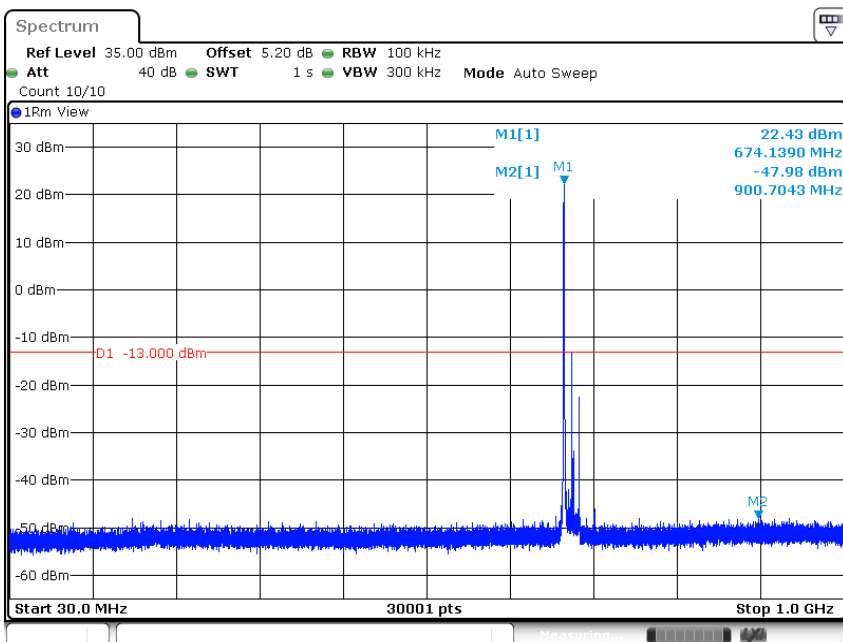


Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~10000MHz



Date: 18 NOV 2020 14:01:42

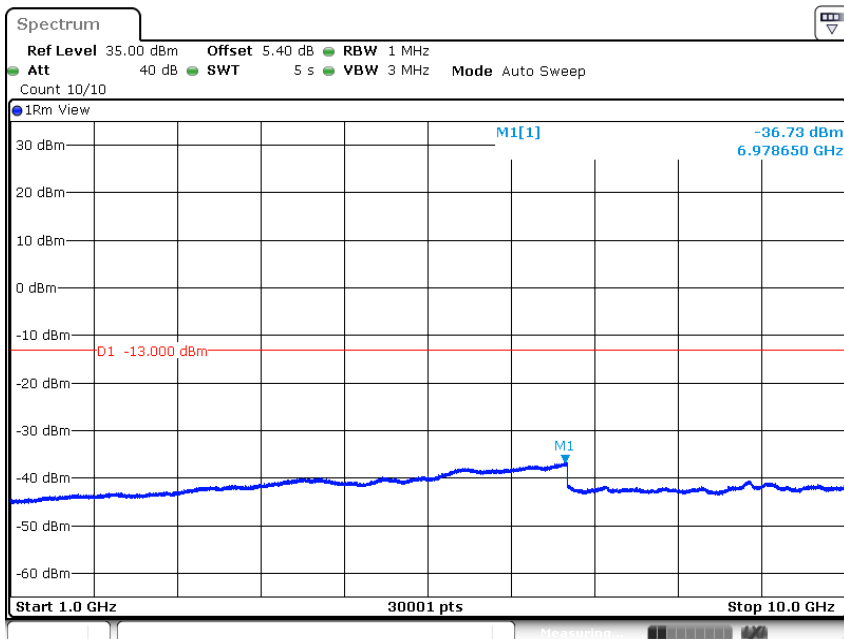
Band71-20MHz-16QAM-133322-1RB#0-Range1:30~1000MHz



Date: 18 NOV 2020 14:02:08

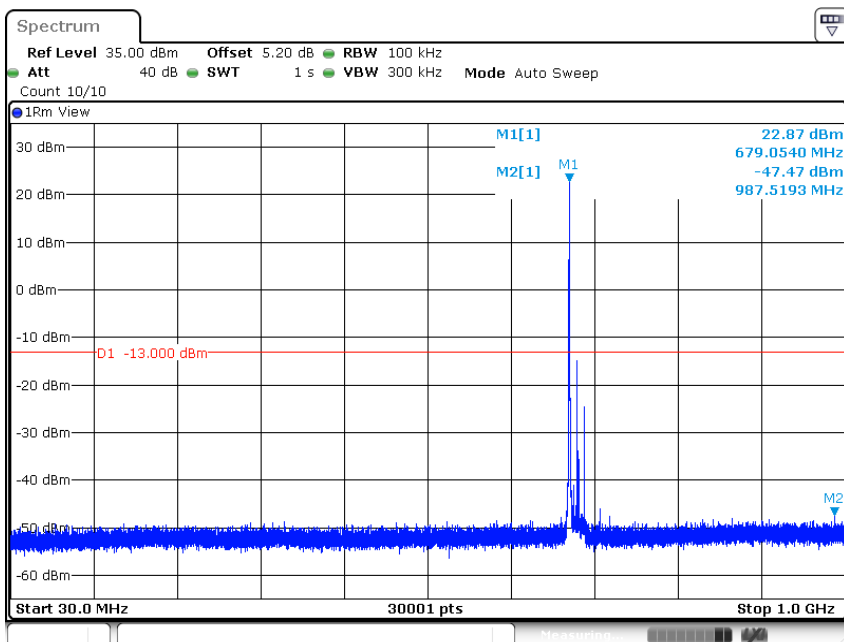


Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~10000MHz



Date: 18 NOV 2020 14:03:19

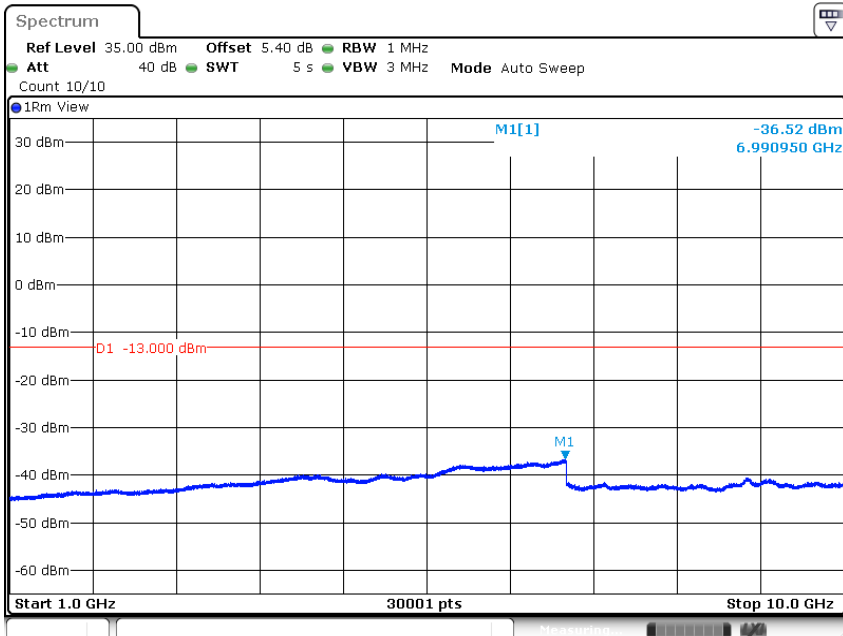
Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz



Date: 18 NOV 2020 14:03:44



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



Date: 18 NOV 2020 14:04:55



7 Field Strength of Spurious Radiation

7.1 Test Mode =LTE/TM1 20MHz

7.1.1 Test Channel = LCH

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
48.2369	-62.57	-57.40	-13.00	44.40	263	216	Horizontal
117.3044	-62.46	-68.16	-13.00	55.16	222	300	Horizontal
234.8742	-67.36	-64.55	-13.00	51.55	178	360	Horizontal
1328.0656	-60.20	-58.35	-13.00	45.35	296	289	Horizontal
2698.3397	-65.83	-52.95	-13.00	39.95	111	0	Horizontal
9237.8095	-57.96	-52.94	-13.00	39.94	129	46	Horizontal
46.1998	-56.60	-58.62	-13.00	45.62	221	238	Vertical
75.2043	-60.00	-59.22	-13.00	46.22	236	153	Vertical
118.9049	-66.50	-60.87	-13.00	47.87	294	323	Vertical
1328.0656	-64.09	-61.71	-13.00	48.71	252	306	Vertical
2695.9392	-65.94	-54.35	-13.00	41.35	218	345	Vertical
9269.7308	-57.69	-52.12	-13.00	39.12	118	46	Vertical

7.1.2 Test Channel = MCH

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
47.2669	-63.63	-57.91	-13.00	44.91	263	206	Horizontal
118.6624	-61.53	-67.34	-13.00	54.34	222	290	Horizontal
236.2808	-68.74	-65.94	-13.00	52.94	284	135	Horizontal
1343.2687	-66.20	-64.29	-13.00	51.29	211	262	Horizontal
2014.6029	-54.46	-47.96	-13.00	34.96	196	74	Horizontal
9277.8511	-57.14	-51.53	-13.00	38.53	241	135	Horizontal
46.9758	-57.15	-59.00	-13.00	46.00	163	198	Vertical
74.6222	-60.49	-59.70	-13.00	46.70	152	198	Vertical
119.3415	-66.52	-60.93	-13.00	47.93	174	325	Vertical
1343.2687	-65.98	-63.55	-13.00	50.55	252	106	Vertical
2014.6029	-56.08	-50.10	-13.00	37.10	296	102	Vertical
9311.7325	-57.40	-51.41	-13.00	38.41	218	346	Vertical



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7.1.3 Test Channel = HCH

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
46.4423	-63.84	-57.65	-13.00	44.65	163	216	Horizontal
116.9648	-61.29	-66.97	-13.00	53.97	222	279	Horizontal
233.2252	-69.17	-66.35	-13.00	53.35	284	322	Horizontal
1358.0716	-63.35	-61.38	-13.00	48.38	296	334	Horizontal
2697.5395	-65.85	-52.99	-13.00	39.99	196	263	Horizontal
9315.3726	-57.33	-51.54	-13.00	38.54	174	4	Horizontal
49.7405	-56.91	-58.16	-13.00	45.16	176	46	Vertical
119.9720	-65.91	-60.38	-13.00	47.38	133	46	Vertical
517.1584	-70.00	-65.19	-13.00	52.19	196	68	Vertical
1358.0716	-65.47	-62.99	-13.00	49.99	225	154	Vertical
2688.3377	-65.63	-54.18	-13.00	41.18	167	30	Vertical
9330.4932	-57.06	-51.25	-13.00	38.25	188	152	Vertical

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.





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	1.70	0.002526	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	2.10	0.003120	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	3.30	0.004903	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-2.60	-0.003807	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-0.80	-0.001171	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-2.60	-0.003807	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	2.70	0.003924	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	1.60	0.002326	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	3.80	0.005523	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	VL	NT	4.90	0.007281	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	VN	NT	8.30	0.012333	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	VH	NT	1.20	0.001783	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	VL	NT	-3.40	-0.004978	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	VN	NT	0.10	0.000146	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	VH	NT	0.30	0.000439	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	VL	NT	-5.00	-0.007267	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	VN	NT	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	VH	NT	-0.80	-0.001163	±2.5	PASS



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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	4.20	0.006241	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-20	3.00	0.004458	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-10	3.31	0.004918	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	0	1.10	0.001634	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	4.40	0.006538	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	3.60	0.005349	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	30	-2.50	-0.003715	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	40	-0.40	-0.000594	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	50	-3.40	-0.005052	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.60	-0.002343	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-2.76	-0.004041	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	2.50	0.003660	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	3.40	0.004978	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	1.10	0.001611	±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	0.80	0.001171	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	6.00	0.008785	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	0.30	0.000436	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-0.30	-0.000436	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-10	1.38	0.002006	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	0	4.20	0.006105	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	10	0.70	0.001017	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	20	1.40	0.002035	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-0.70	-0.001017	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-1.30	-0.001890	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	50	-0.60	-0.000872	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	-30	-5.60	-0.008321	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	-20	-2.00	-0.002972	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	-10	-3.52	-0.005230	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	0	-3.60	-0.005349	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	10	-4.30	-0.006389	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	20	-2.40	-0.003566	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	30	-5.70	-0.008470	±2.5	PASS
Band71	20MHz	16QAM	133222	27RB#0	NV	40	1.40	0.002080	±2.5	PASS



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Band71	20MHz	16QAM	133222	27RB#0	NV	50	2.70	0.004012	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	-30	5.40	0.007906	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	-20	3.20	0.004685	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	-10	2.75	0.004026	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	0	5.00	0.007321	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	10	-1.50	-0.002196	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	20	-3.00	-0.004392	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	30	-3.60	-0.005271	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	40	0.50	0.000732	±2.5	PASS
Band71	20MHz	16QAM	133322	27RB#0	NV	50	-0.80	-0.001171	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	-30	1.20	0.001744	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	-20	2.80	0.004070	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	-10	1.67	0.002427	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	0	3.50	0.005087	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	10	3.10	0.004506	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	20	-0.20	-0.000291	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	30	-1.45	-0.002108	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	40	-0.54	-0.000785	±2.5	PASS
Band71	20MHz	16QAM	133372	27RB#0	NV	50	3.76	0.005465	±2.5	PASS

The End



SGS-CSTC Standards Technical Services Co., Ltd.
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