



Appendix B

E-UTRA Band 71



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	22.98	19.03	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.01	19.06	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.16	19.21	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#0	21.93	17.98	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#6	21.98	18.03	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#13	22.07	18.12	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.00	18.05	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.98	19.03	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.70	18.75	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.83	18.88	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#0	21.96	18.01	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#6	21.93	17.98	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#13	21.97	18.02	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.90	17.95	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.80	18.85	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.79	18.84	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.61	18.66	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#0	21.77	17.82	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#6	21.74	17.79	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#13	21.92	17.97	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.82	17.87	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.75	17.80	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.91	17.96	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.33	17.38	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#0	21.10	17.15	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#6	21.13	17.18	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#13	20.90	16.95	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.05	17.10	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.39	17.44	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.79	17.84	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.57	17.62	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#0	20.90	16.95	34.77	PASS



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Band71	5MHz	16QAM	133297	12RB#6	20.87	16.92	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#13	20.91	16.96	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.97	17.02	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.21	17.26	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.77	17.82	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.34	17.39	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#0	20.86	16.91	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#6	20.85	16.90	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#13	20.60	16.65	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.87	16.92	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.96	19.01	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.03	19.08	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.09	19.14	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#0	22.03	18.08	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#12	21.95	18.00	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#25	22.06	18.11	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	22.10	18.15	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.88	18.93	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.06	19.11	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.68	18.73	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#0	22.10	18.15	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#12	21.79	17.84	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#25	21.86	17.91	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.89	17.94	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	22.90	18.95	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.75	18.80	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.87	18.92	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#0	21.82	17.87	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#12	21.83	17.88	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#25	21.89	17.94	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.72	17.77	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.62	17.67	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.56	17.61	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.76	17.81	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#0	21.08	17.13	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#12	20.95	17.00	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#25	21.11	17.16	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.09	17.14	34.77	PASS



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Band71	10MHz	16QAM	133297	1RB#0	21.81	17.86	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.78	17.83	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.71	17.76	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#0	21.06	17.11	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#12	21.08	17.13	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#25	21.03	17.08	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	20.95	17.00	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.66	17.71	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.61	17.66	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.53	17.58	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#0	20.86	16.91	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#12	20.92	16.97	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#25	20.79	16.84	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	20.78	16.83	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.94	18.99	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.80	18.85	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.85	18.90	34.77	PASS
Band71	15MHz	QPSK	133197	36RB#0	21.85	17.90	34.77	PASS
Band71	15MHz	QPSK	133197	36RB#18	21.79	17.84	34.77	PASS
Band71	15MHz	QPSK	133197	36RB#39	22.09	18.14	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.87	17.92	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	22.87	18.92	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.91	18.96	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.65	18.70	34.77	PASS
Band71	15MHz	QPSK	133297	36RB#0	22.00	18.05	34.77	PASS
Band71	15MHz	QPSK	133297	36RB#18	21.75	17.80	34.77	PASS
Band71	15MHz	QPSK	133297	36RB#39	21.82	17.87	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.87	17.92	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.77	18.82	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.50	18.55	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.76	18.81	34.77	PASS
Band71	15MHz	QPSK	133397	36RB#0	21.75	17.80	34.77	PASS
Band71	15MHz	QPSK	133397	36RB#18	21.64	17.69	34.77	PASS
Band71	15MHz	QPSK	133397	36RB#39	21.81	17.86	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.66	17.71	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.70	17.75	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.67	17.72	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.49	17.54	34.77	PASS



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Band71	15MHz	16QAM	133197	36RB#0	20.98	17.03	34.77	PASS
Band71	15MHz	16QAM	133197	36RB#18	21.06	17.11	34.77	PASS
Band71	15MHz	16QAM	133197	36RB#39	20.86	16.91	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	20.95	17.00	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.37	17.42	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.57	17.62	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.48	17.53	34.77	PASS
Band71	15MHz	16QAM	133297	36RB#0	21.00	17.05	34.77	PASS
Band71	15MHz	16QAM	133297	36RB#18	20.87	16.92	34.77	PASS
Band71	15MHz	16QAM	133297	36RB#39	20.89	16.94	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	20.93	16.98	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.74	17.79	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.48	17.53	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.48	17.53	34.77	PASS
Band71	15MHz	16QAM	133397	36RB#0	20.82	16.87	34.77	PASS
Band71	15MHz	16QAM	133397	36RB#18	20.79	16.84	34.77	PASS
Band71	15MHz	16QAM	133397	36RB#39	20.70	16.75	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.72	16.77	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.75	18.80	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.00	19.05	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.38	18.43	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#0	21.79	17.84	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#25	22.07	18.12	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#50	21.92	17.97	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.73	17.78	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.63	18.68	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.95	19.00	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.33	18.38	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#0	21.96	18.01	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#25	21.82	17.87	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#50	21.47	17.52	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.78	17.83	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.62	18.67	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.98	19.03	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.44	18.49	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#0	21.63	17.68	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#25	21.68	17.73	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#50	21.71	17.76	34.77	PASS



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Band71	20MHz	QPSK	133372	100RB#0	21.81	17.86	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.55	17.60	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.83	17.88	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.44	17.49	34.77	PASS
Band71	20MHz	16QAM	133222	50RB#0	20.94	16.99	34.77	PASS
Band71	20MHz	16QAM	133222	50RB#25	20.95	17.00	34.77	PASS
Band71	20MHz	16QAM	133222	50RB#50	20.86	16.91	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	20.89	16.94	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.43	17.48	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.40	17.45	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.04	17.09	34.77	PASS
Band71	20MHz	16QAM	133322	50RB#0	20.96	17.01	34.77	PASS
Band71	20MHz	16QAM	133322	50RB#25	20.90	16.95	34.77	PASS
Band71	20MHz	16QAM	133322	50RB#50	20.81	16.86	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	20.76	16.81	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.48	17.53	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.64	17.69	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.85	17.90	34.77	PASS
Band71	20MHz	16QAM	133372	50RB#0	20.82	16.87	34.77	PASS
Band71	20MHz	16QAM	133372	50RB#25	20.81	16.86	34.77	PASS
Band71	20MHz	16QAM	133372	50RB#50	20.77	16.82	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.89	16.94	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 [dBi]

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



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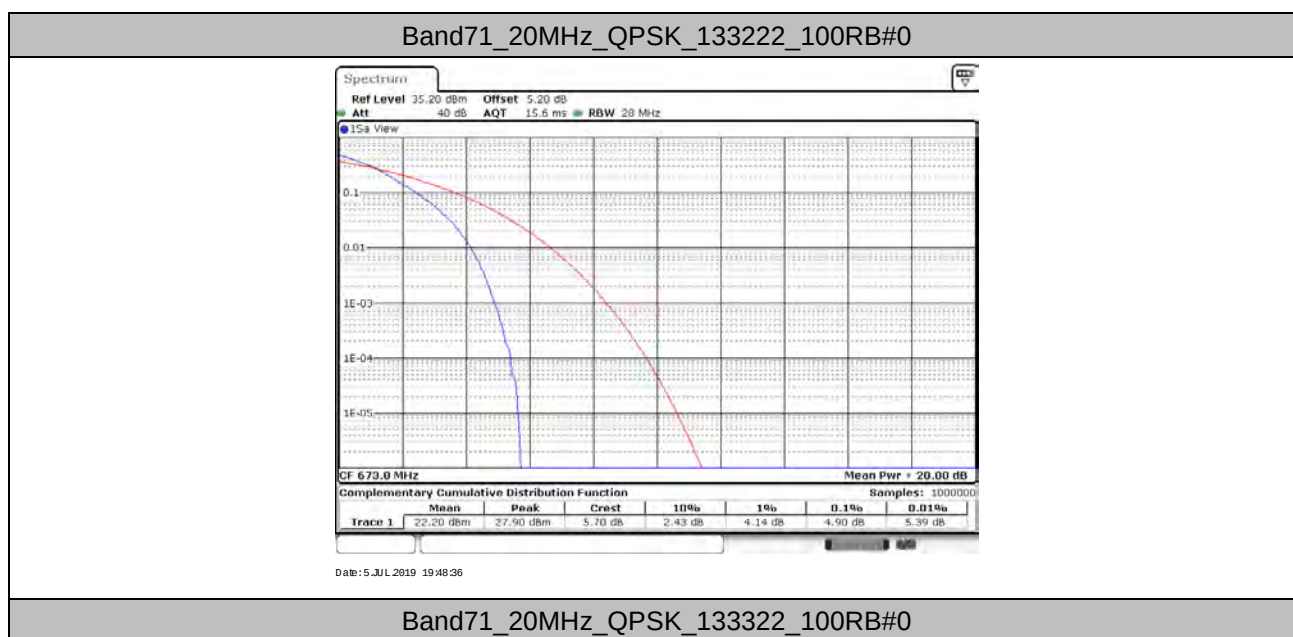


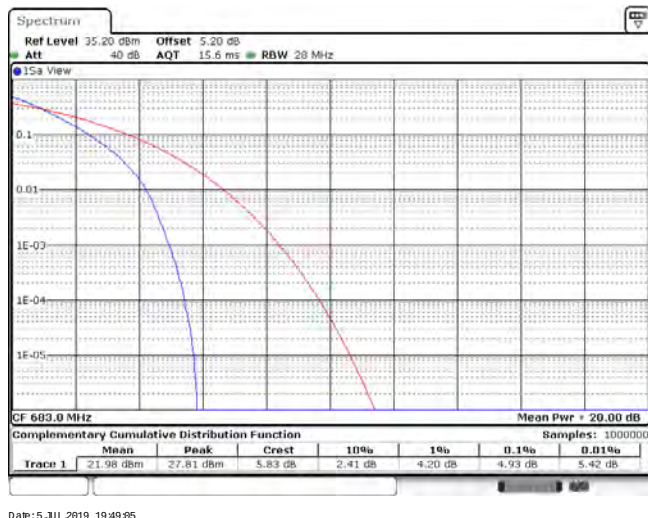
2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

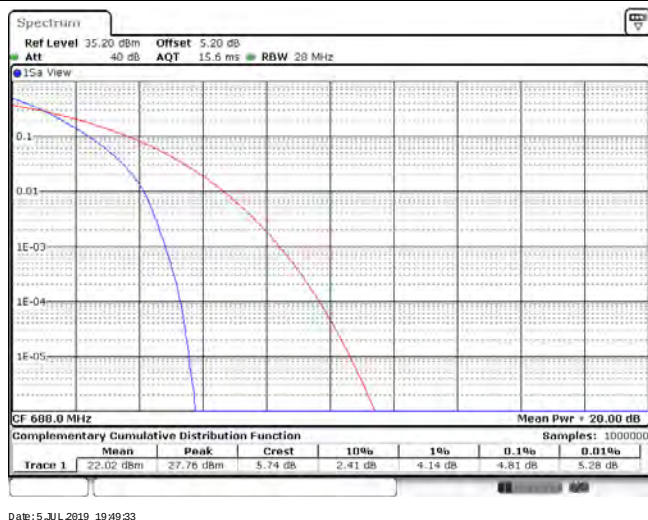
BAND	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	4.90	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	4.93	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	4.81	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	5.77	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	5.83	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	5.80	13	PASS

2.2. Test Plots



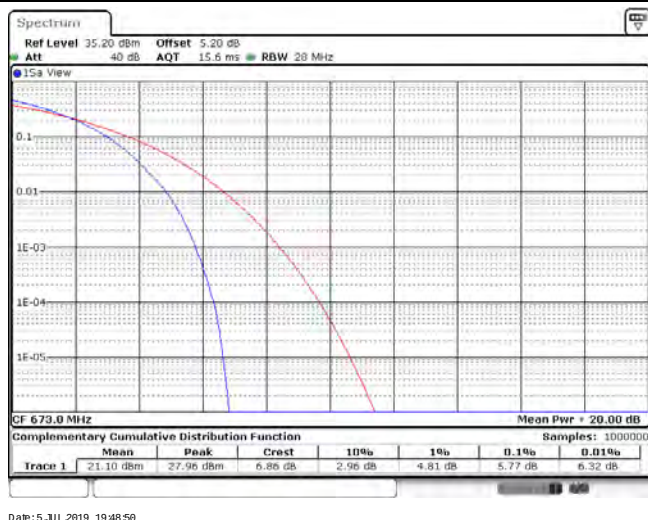


Band71_20MHz_QPSK_133372_100RB#0

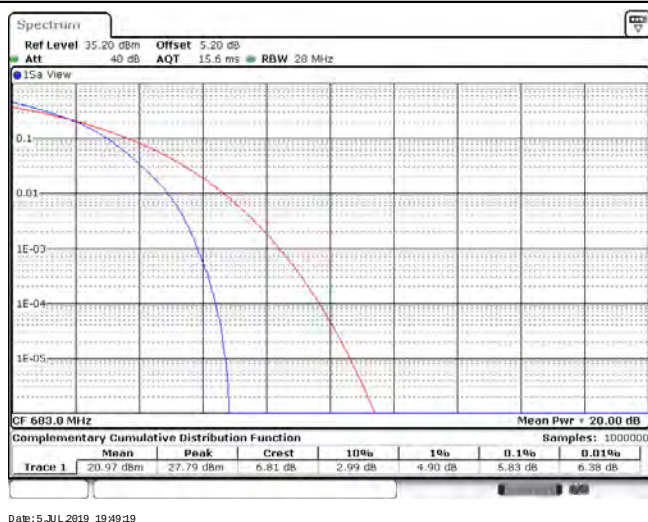


Band71_20MHz_16QAM_133222_100RB#0





Band71_20MHz_16QAM_133322_100RB#0



Band71_20MHz_16QAM_133372_100RB#0





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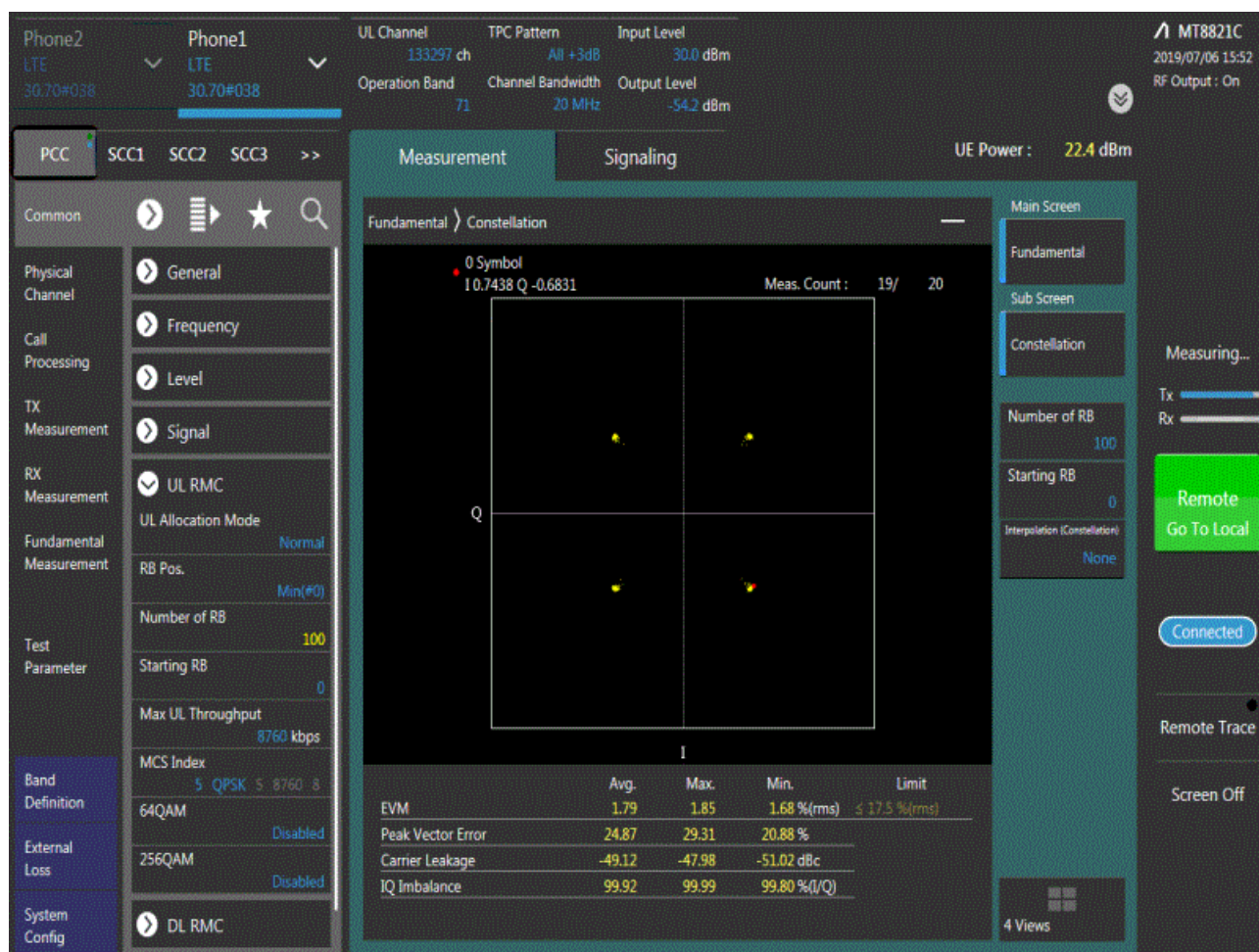
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3. Modulation Characteristics

3.1. Test BAND = LTE Band 71

3.2. Test Mode = LTE /TM1 20MHz

3.2.1. Test Channel = MCH



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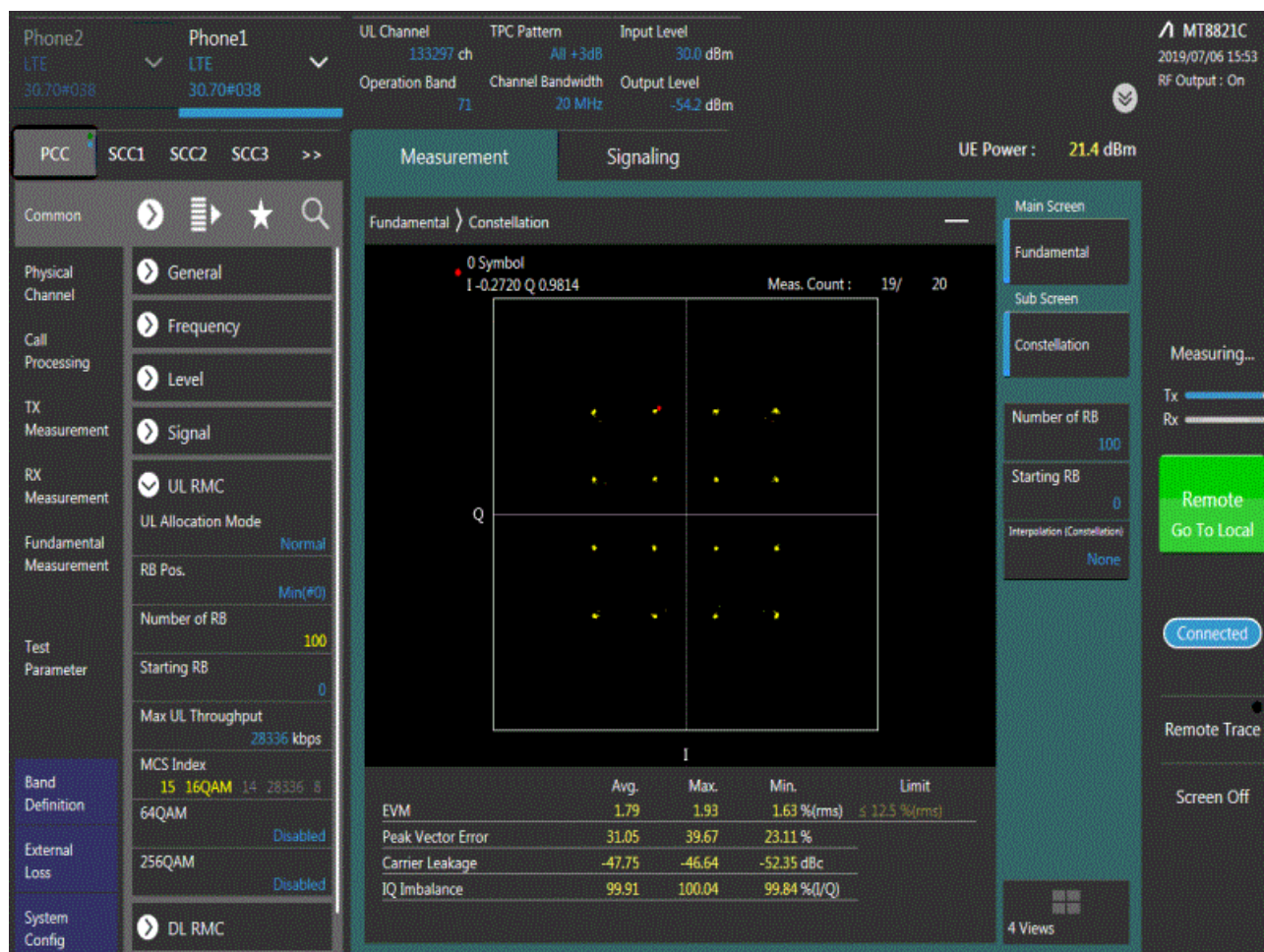
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3.3. Test Mode = LTE /TM2 20MHz

3.3.1. Test Channel = MCH





4. 26dB Bandwidth and Occupied Bandwidth

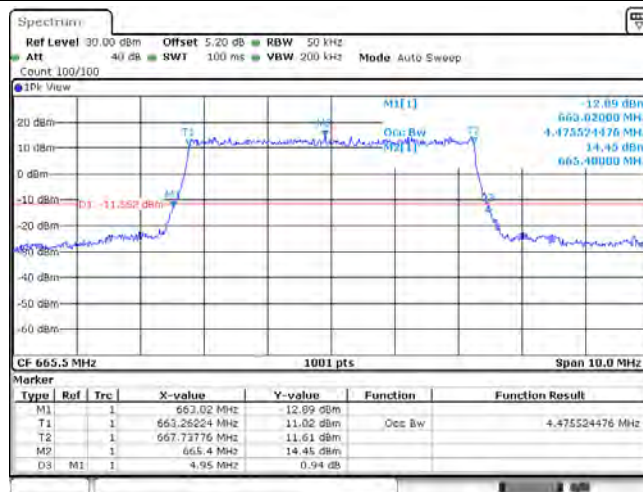
4.1. Test Result

BAND	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.476	4.950	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.476	4.930	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.476	4.920	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.496	4.970	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.496	4.960	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.496	4.950	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.931	9.760	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.931	9.700	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.911	9.720	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.931	9.760	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.931	9.760	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.911	9.740	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.397	14.760	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.457	14.880	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.397	14.760	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.397	14.700	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.457	14.760	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.427	14.700	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.782	19.280	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.862	19.320	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.782	19.320	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.822	19.280	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.822	19.360	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.822	19.280	PASS



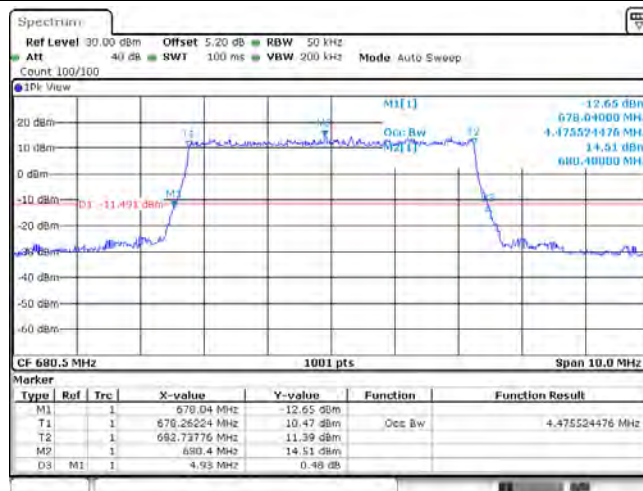
4.2. Test Plots

Band71_5MHz_QPSK_133147_25RB#0



Date: 5 JUL 2019 19:19:26

Band71_5MHz_QPSK_133297_25RB#0



Date: 5 JUL 2019 19:28:12

Band71_5MHz_QPSK_133447_25RB#0



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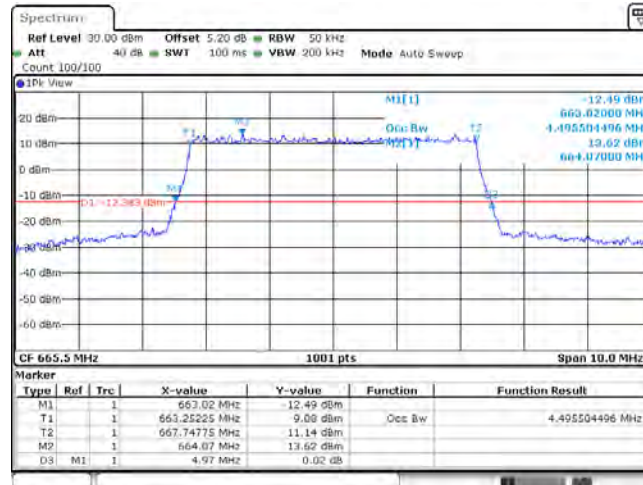
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Date: 5 JUL 2019 19:28:57

Band71_5MHz_16QAM_133147_25RB#0



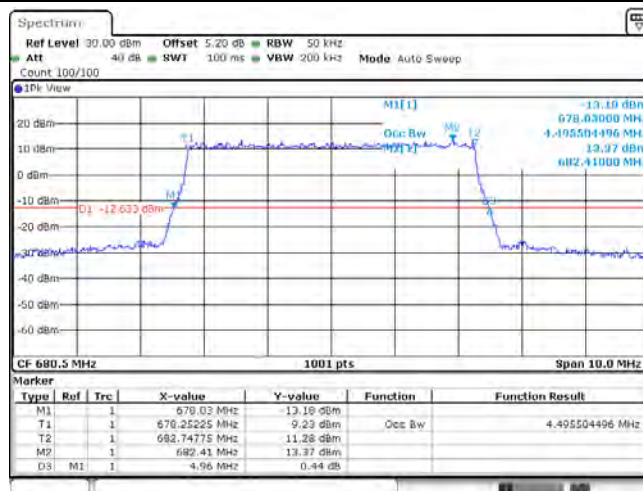
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Band71_5MHz_16QAM_133297_25RB#0



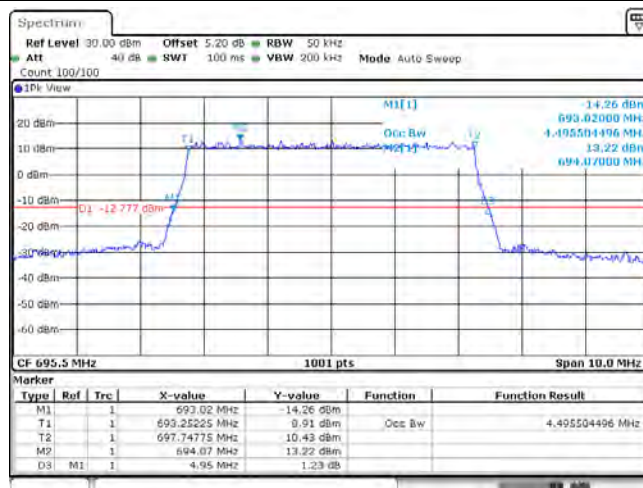
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Band71_5MHz_16QAM_133447_25RB#0



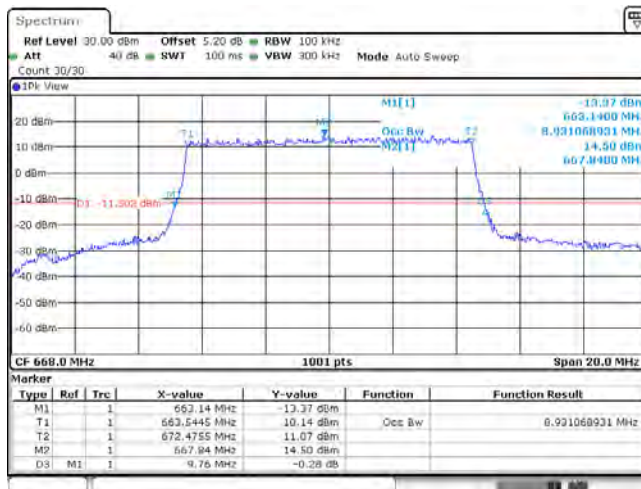
Date: 5 JUL 2019 19:21:29

Band71_10MHz_QPSK_133172_50RB#0



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Date: 5 JUL 2019 19:21:41

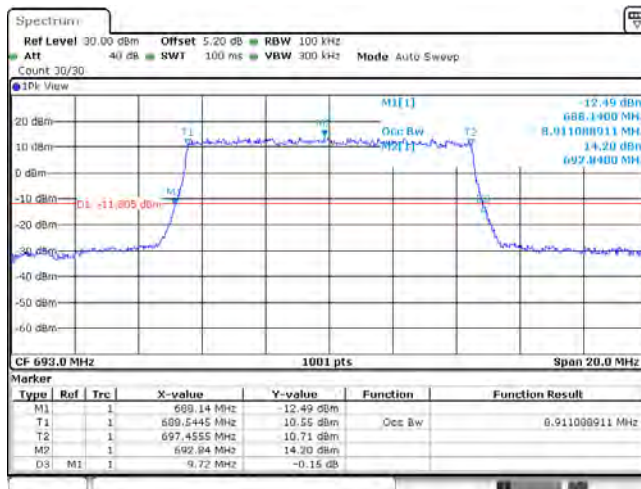
Band71_10MHz_QPSK_133297_50RB#0



Date: 5 JUL 2019 19:22:12

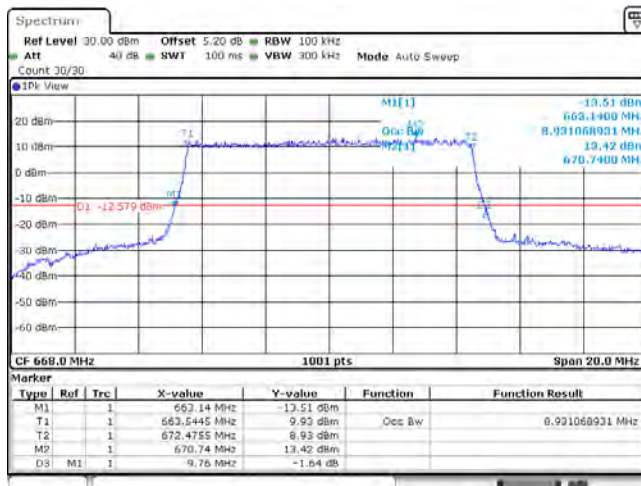
Band71_10MHz_QPSK_133422_50RB#0





Date: 5 JUL 2019 19:22:44

Band71_10MHz_16QAM_133172_50RB#0



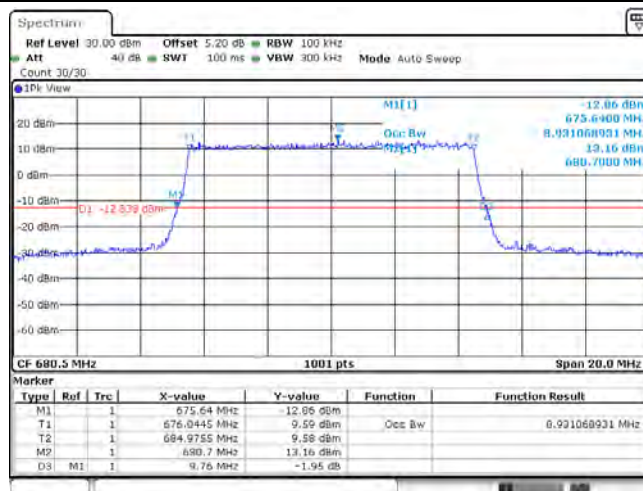
Date: 5 JUL 2019 19:21:56

Band71_10MHz_16QAM_133297_50RB#0



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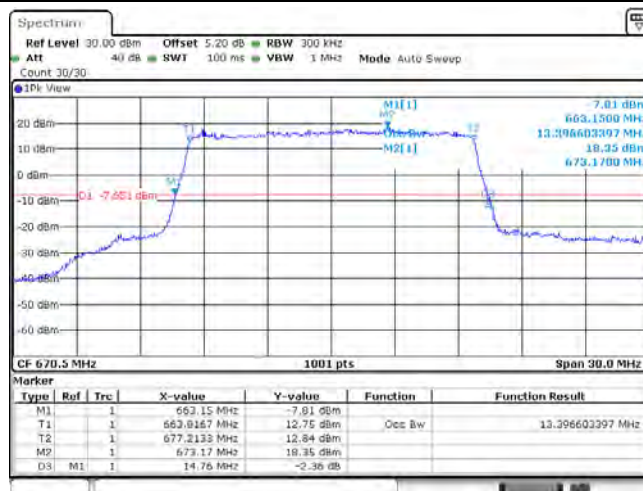
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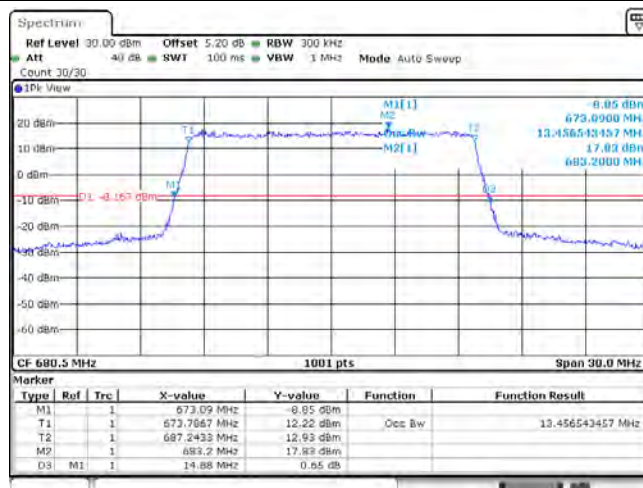
Band71_15MHz_QPSK_133197_75RB#0





Date: 5 JUL 2019 19:23:20

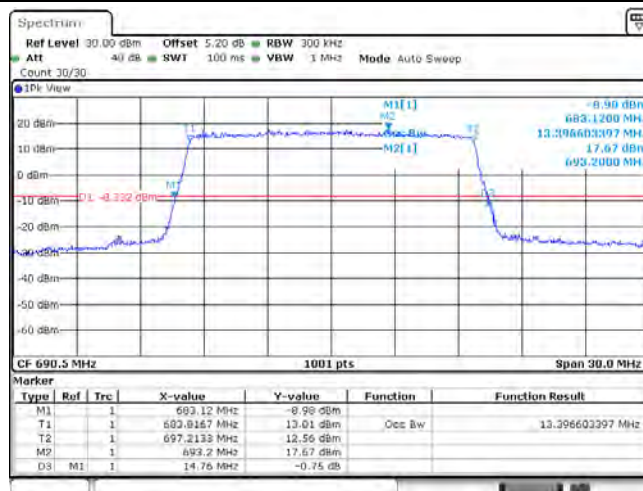
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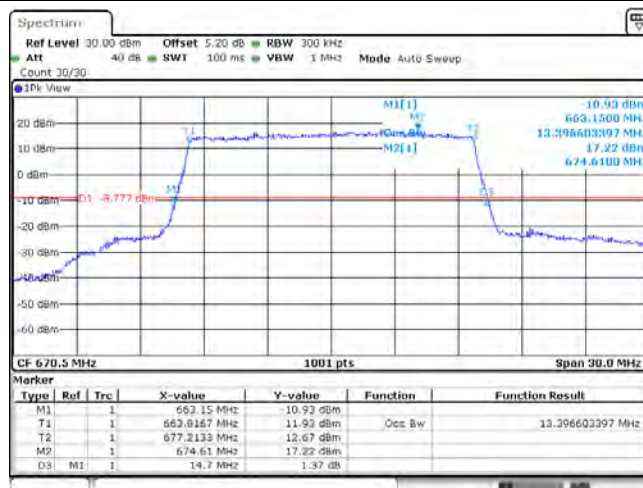
Band71_15MHz_QPSK_133397_75RB#0





Date: 5 JUL 2019 19:24:23

Band71_15MHz_16QAM_133197_75RB#0



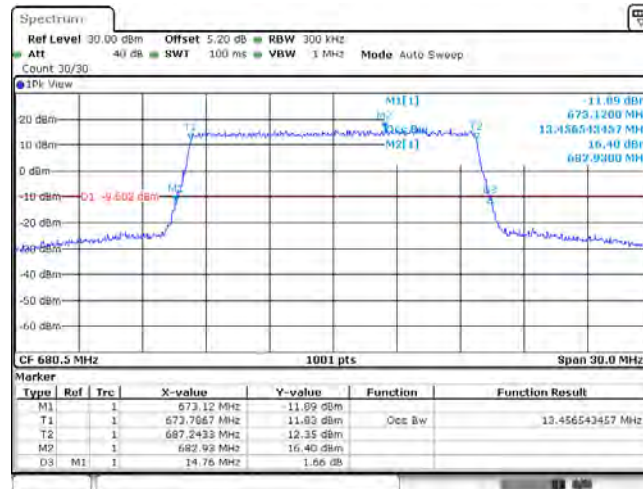
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Band71_15MHz_16QAM_133297_75RB#0



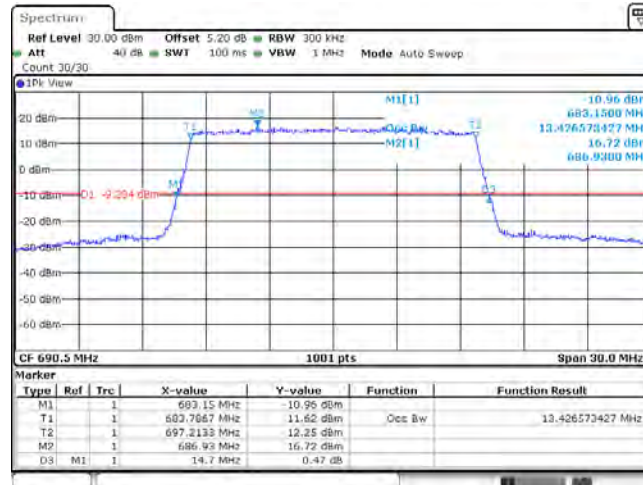
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Date: 5 JUL 2019 19:24:87

Band71_15MHz_16QAM_133397_75RB#0



Date: 5 JUL 2019 19:24:38

Band71_20MHz_QPSK_133222_100RB#0



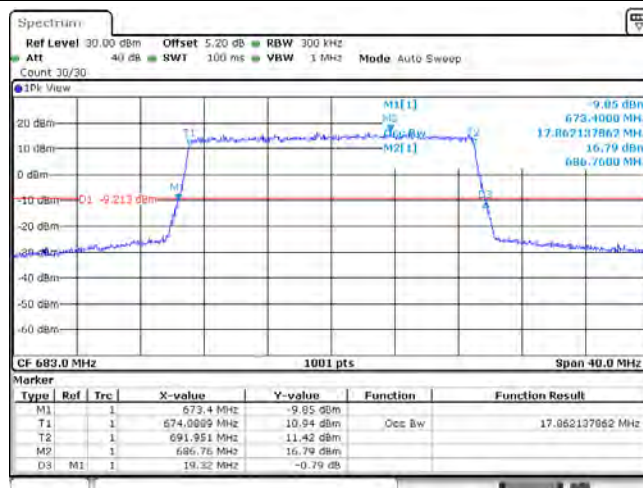
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Date: 5 JUL 2019 19:24:59

Band71_20MHz_QPSK_133322_100RB#0



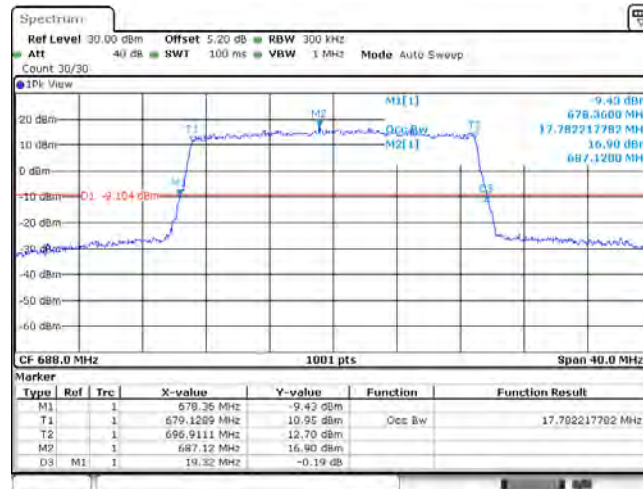
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Band71_20MHz_QPSK_133372_100RB#0



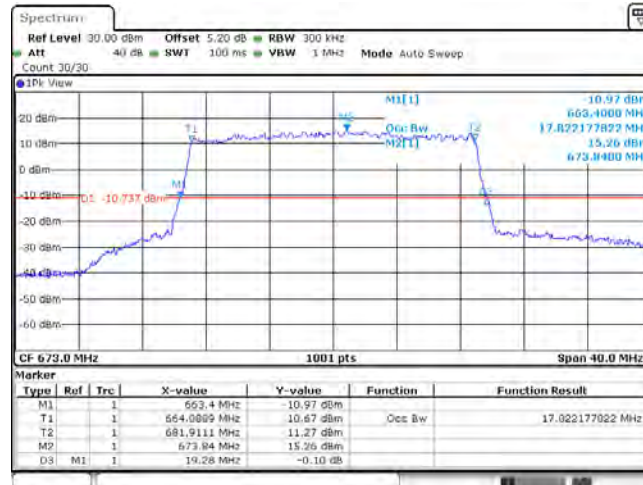
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Date: 5 JUL 2019 19:26:02

Band71_20MHz_16QAM_133222_100RB#0



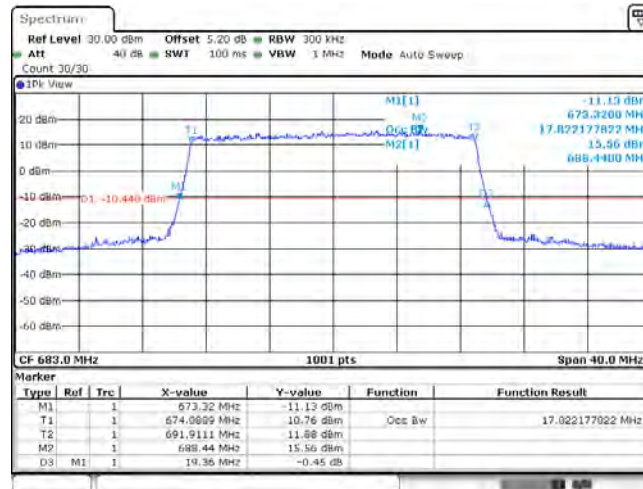
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Band71_20MHz_16QAM_133322_100RB#0



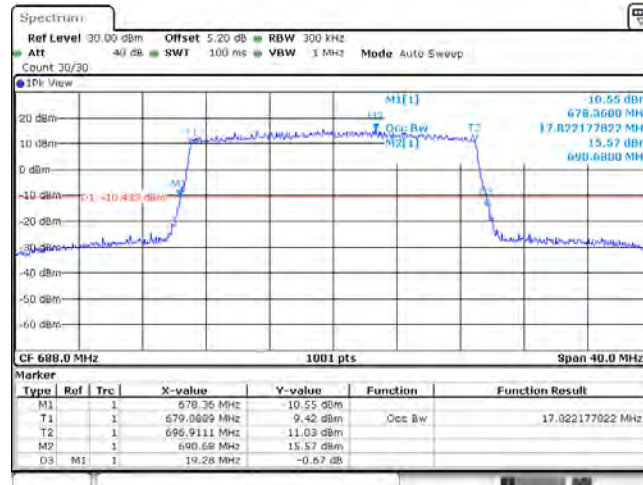
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Date: 5 JUL 2019 19:25:46

Band71_20MHz_16QAM_133372_100RB#0



Date: 5 JUL 2019 19:26:18



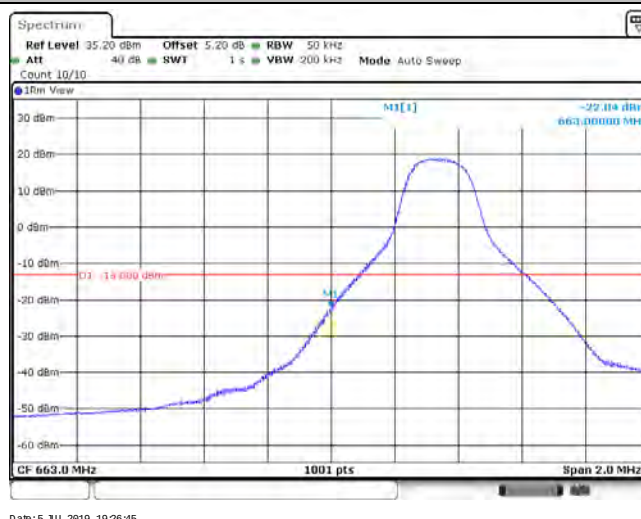
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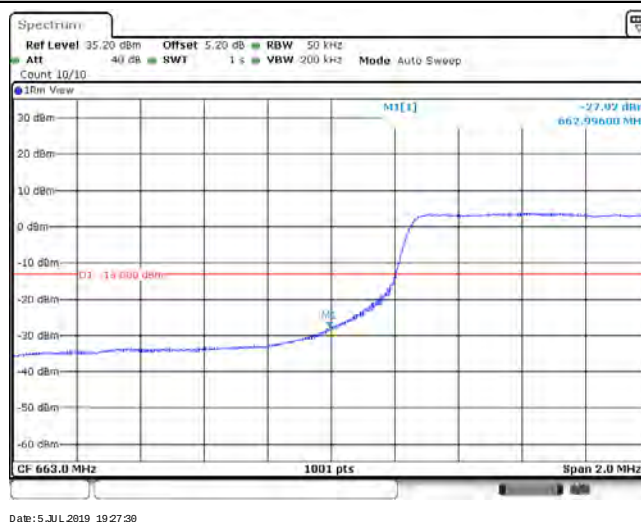
5. Band Edge Compliance

5.1. Test Plots

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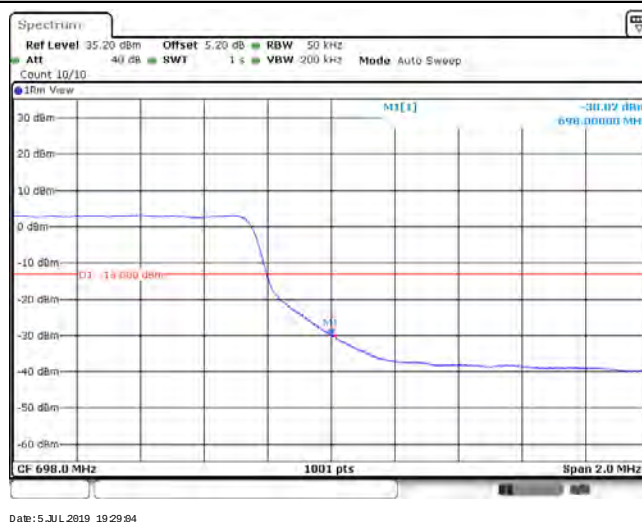


Band71_5MHz_QPSK_133447_1RB#24





Band71_5MHz_QPSK_133447_25RB#0

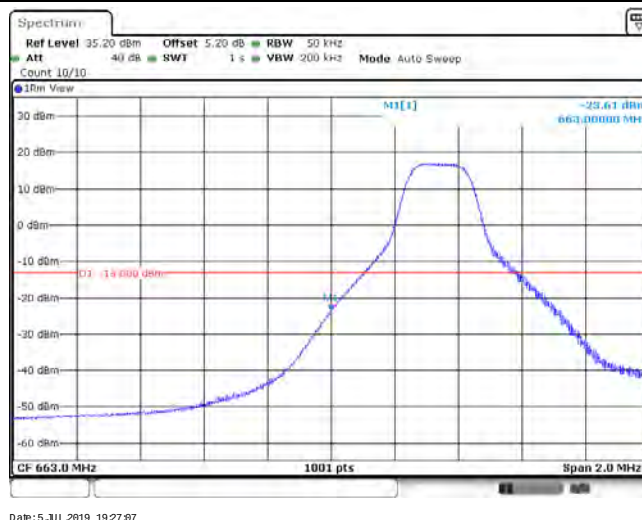


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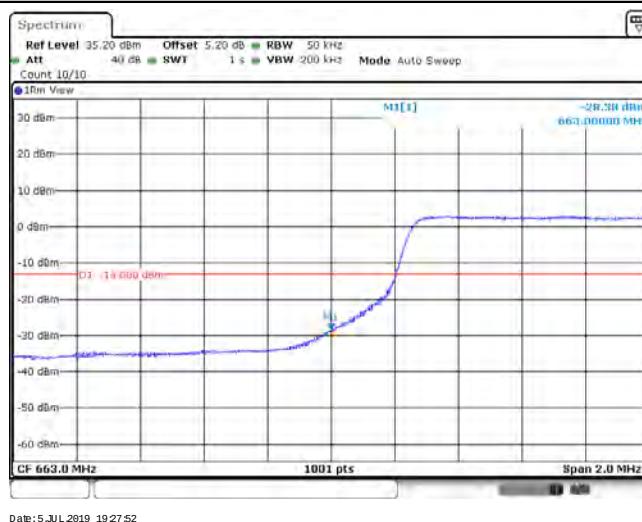


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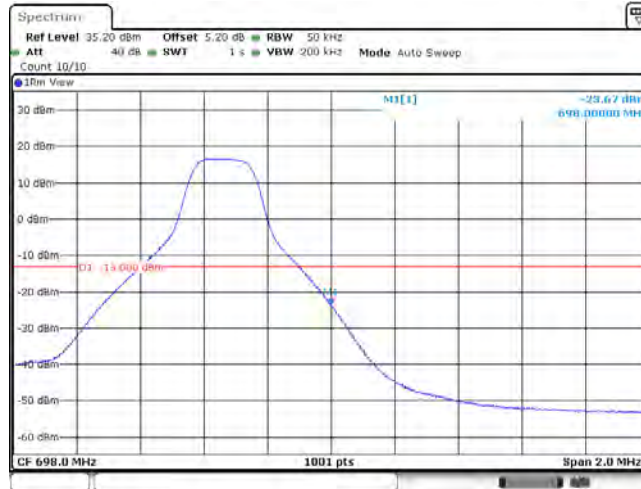


Band71_5MHz_16QAM_133147_25RB#0



Band71_5MHz_16QAM_133447_1RB#24





Date: 5 JUL 2019 19:28:42

Band71_5MHz_16QAM_133447_25RB#0



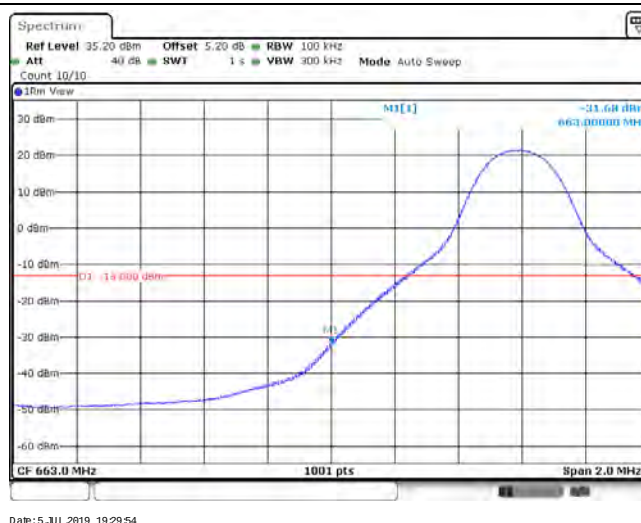
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Band71_10MHz_QPSK_133172_1RB#0

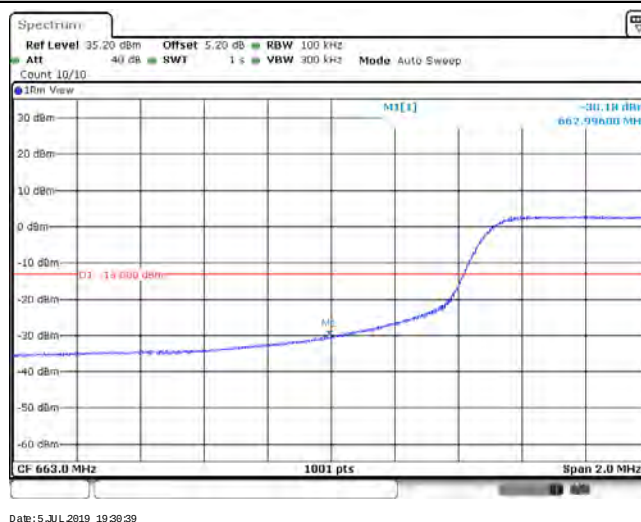


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Band71 10MHz QPSK 133172 50RB#0



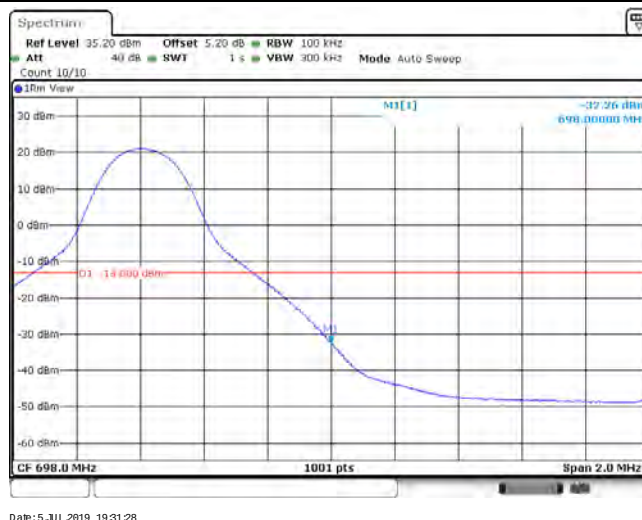
Band71 10MHz QPSK 133422 1RB#49



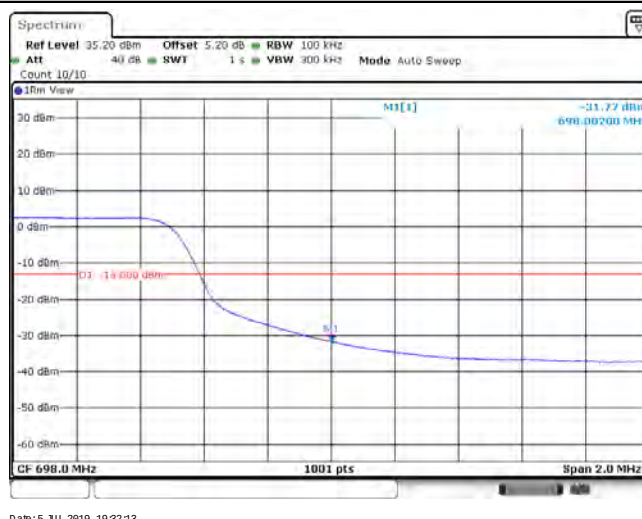
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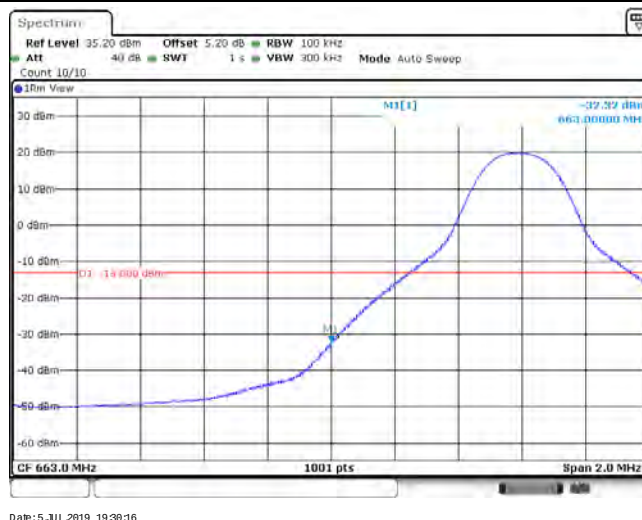


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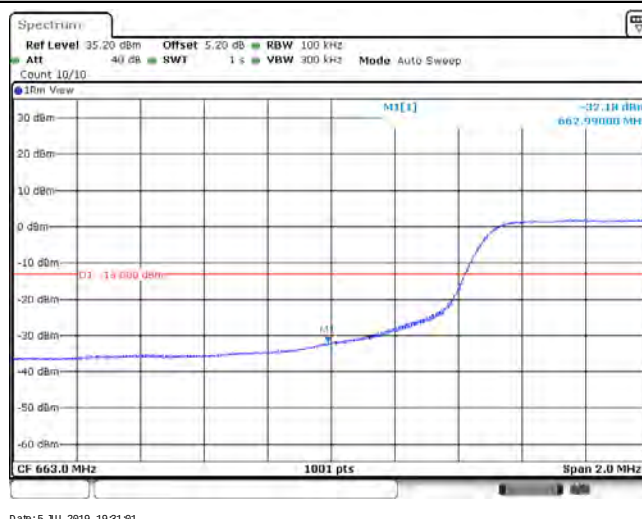


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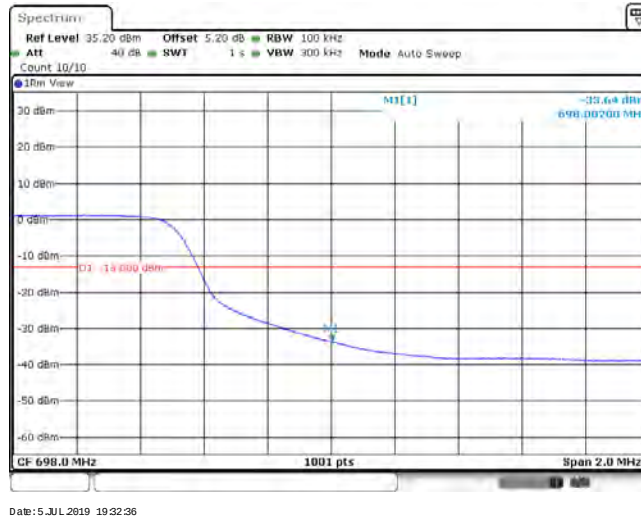


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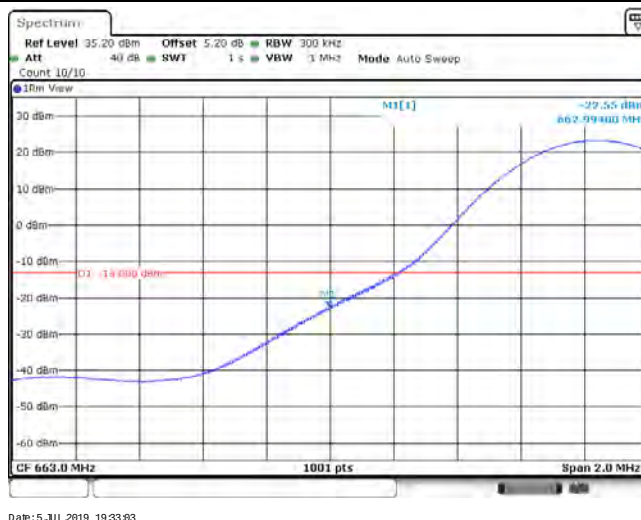
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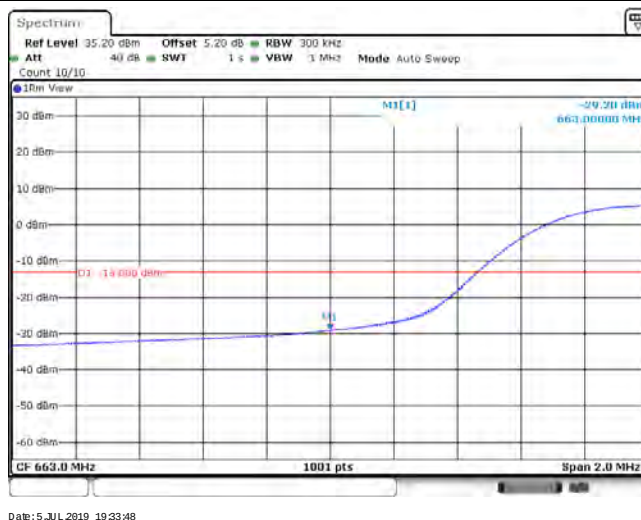
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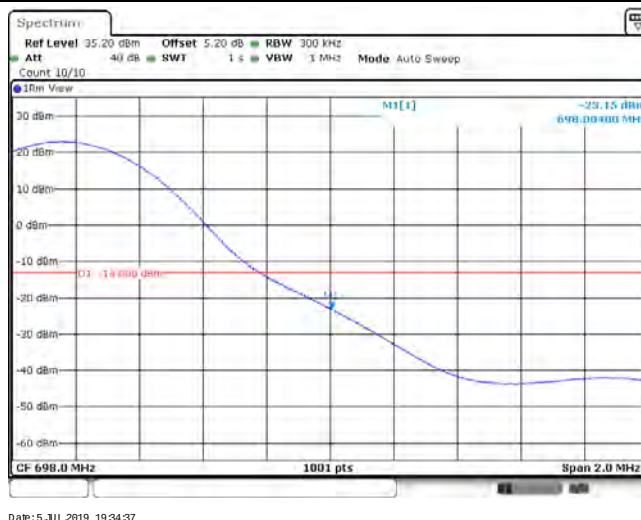


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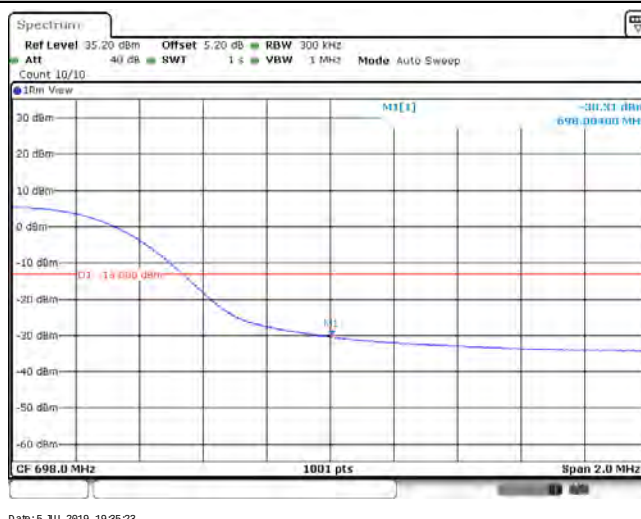


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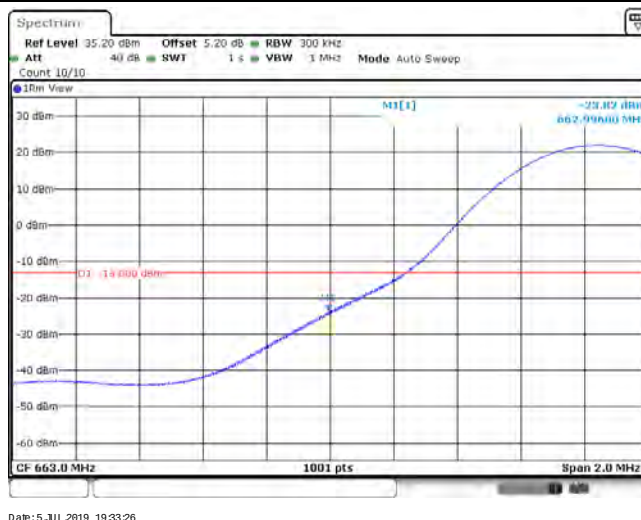


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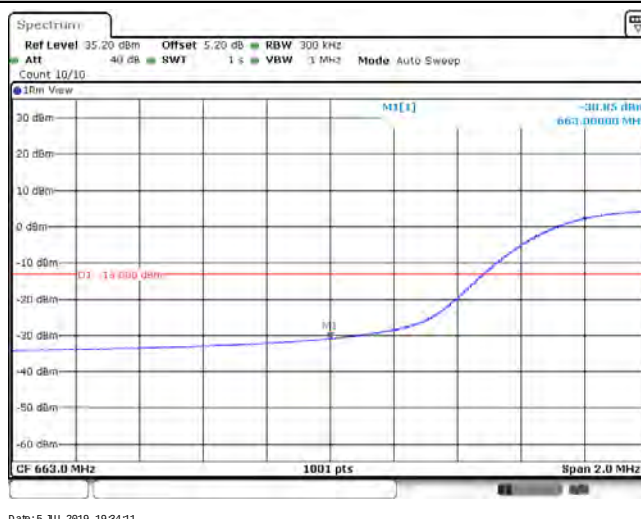


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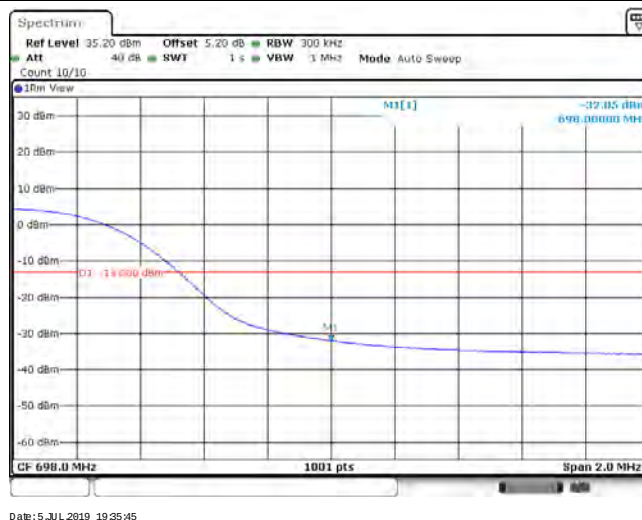
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Date: 5 JUL 2019 19:35:09

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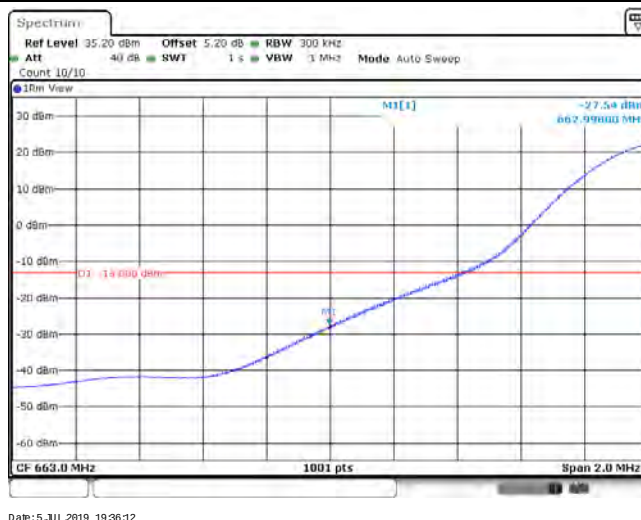
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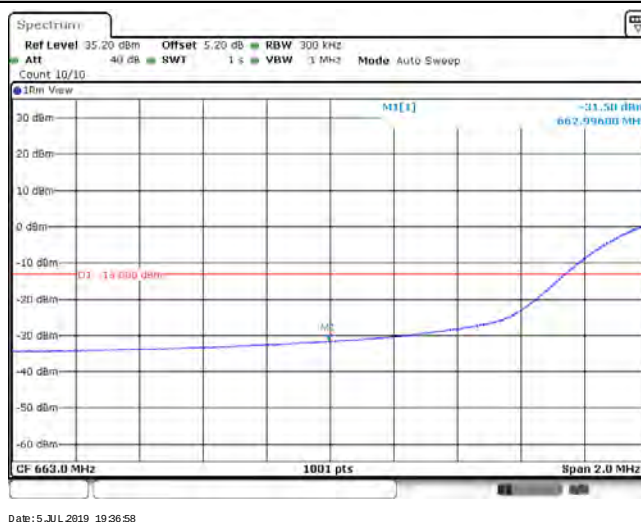


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Band71_20MHz_QPSK_133222_100RB#0

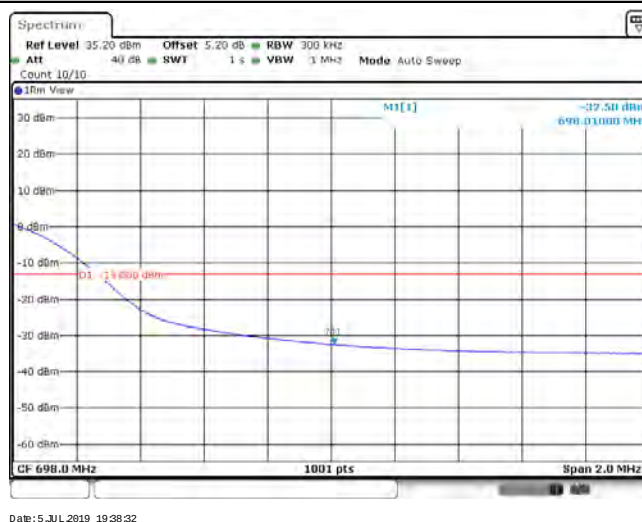


Band71_20MHz_QPSK_133372_1RB#99





Band71_20MHz_QPSK_133372_100RB#0



Band71_20MHz_16QAM_133222_1RB#0





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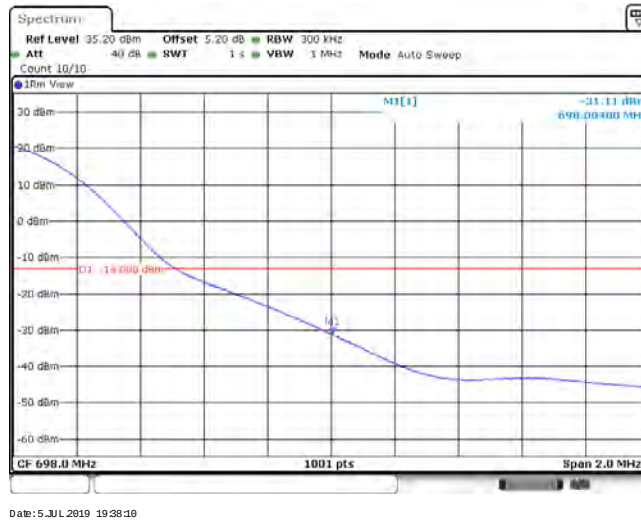


Band71_20MHz_16QAM_133372_1RB#99



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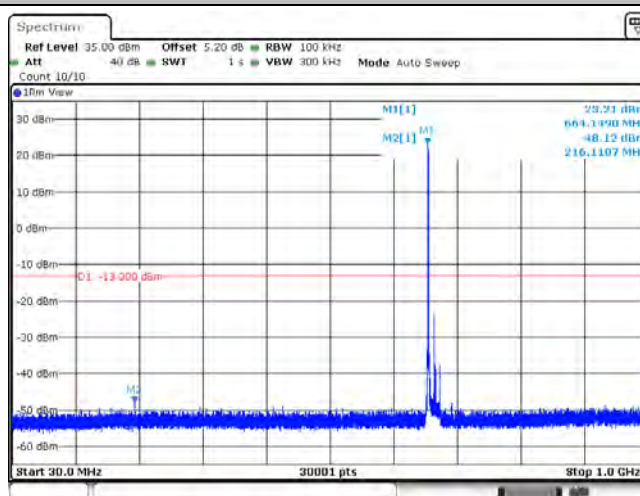
6. Spurious Emission at Antenna Terminal

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 = $k * (\text{Span} / RBW)$ " 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.

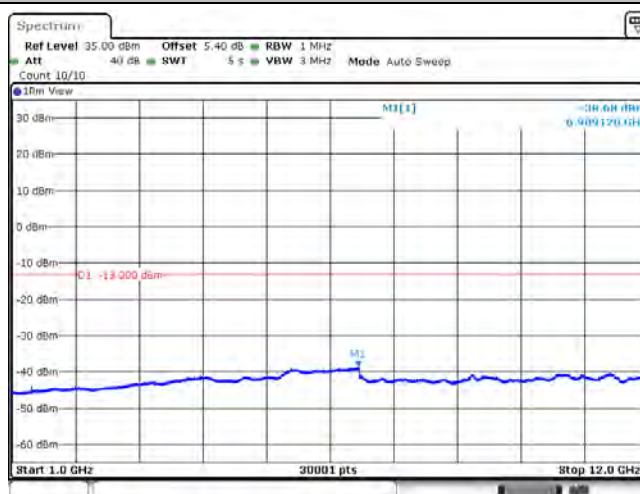
6.1. Test Plots

Band71_20MHz_QPSK_133222_1RB#0



Date: 5 JUL 2019 19:39:22

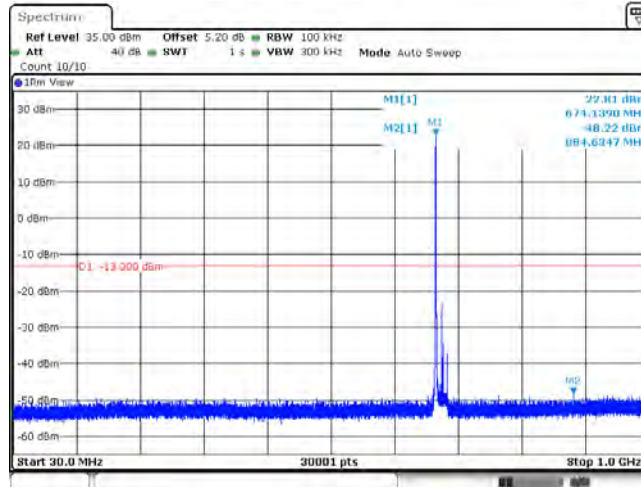
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Date: 5 JUL 2019 19:49:32

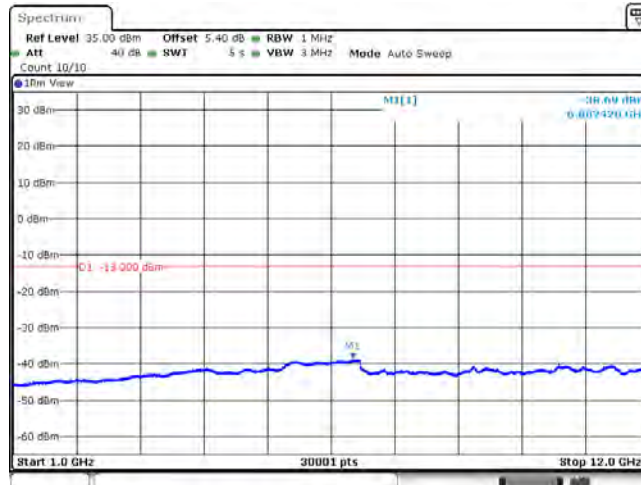
Band71_20MHz_QPSK_133222_1RB#0





Date: 5 JUL 2019 19:42:28

Band71_20MHz_QPSK_133322_1RB#0



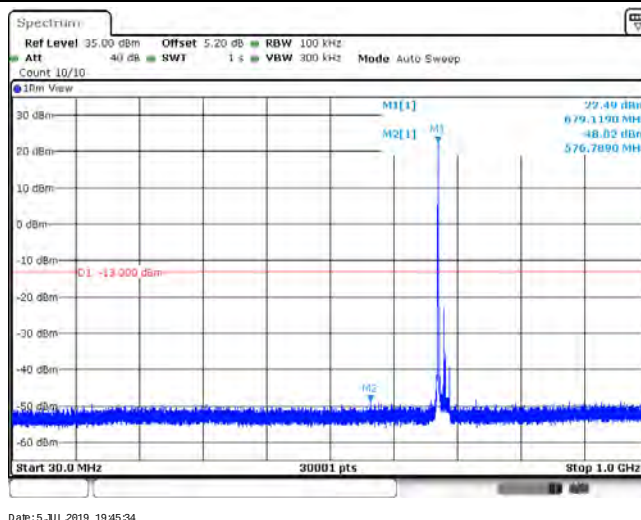
Date: 5 JUL 2019 19:43:38

Band71_20MHz_QPSK_133372_1RB#0

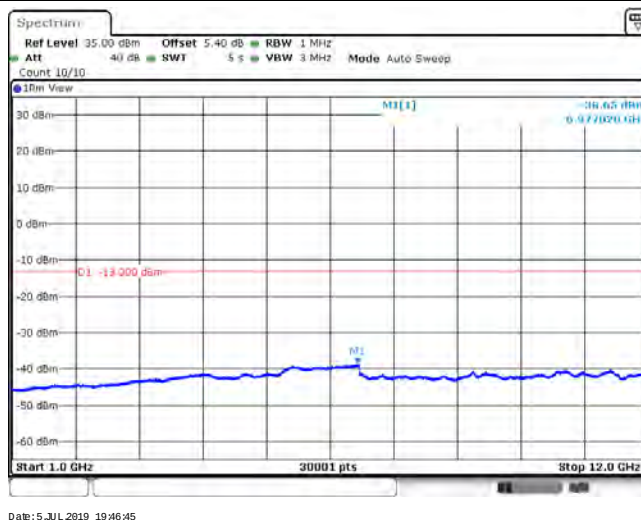


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Band71_20MHz_QPSK_133372_1RB#0

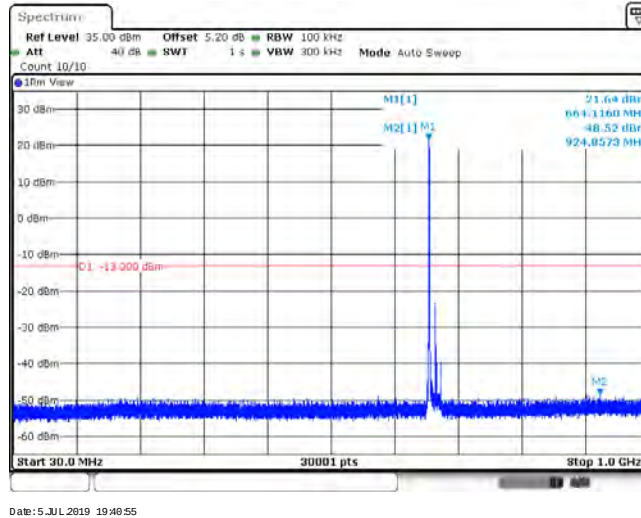


Band71_20MHz_16QAM_133222_1RB#0

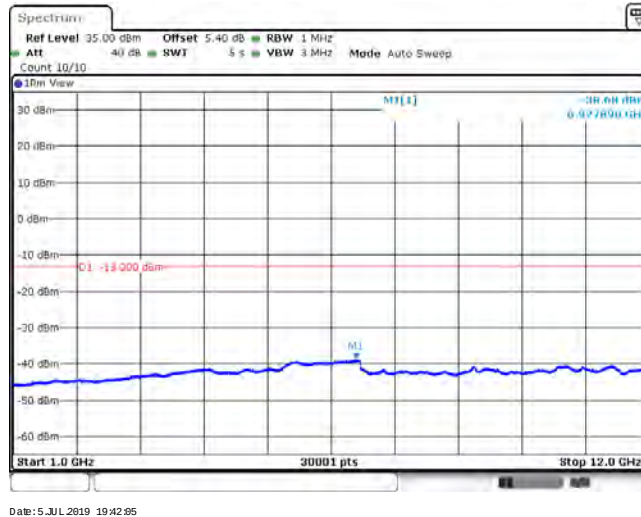


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Band71_20MHz_16QAM_133222_1RB#0

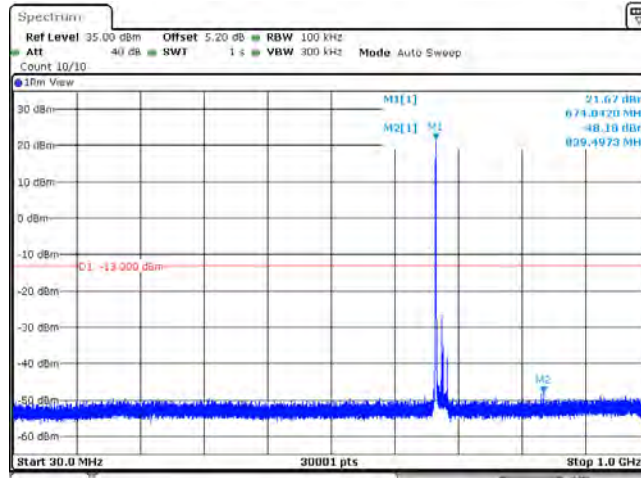


Band71_20MHz_16QAM_133322_1RB#0



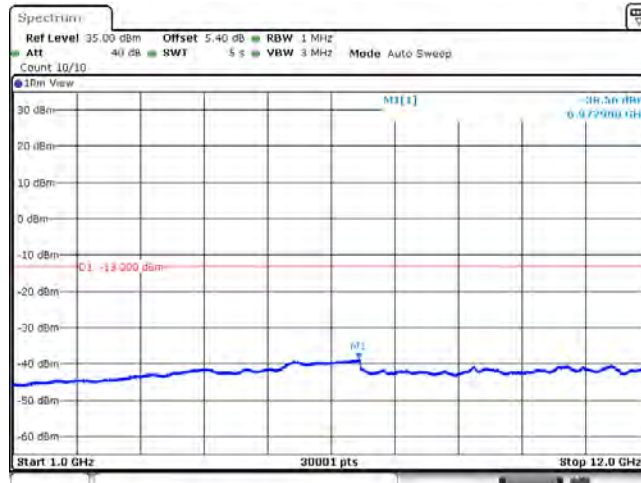
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Date: 5 JUL 2019 19:44:01

Band71_20MHz_16QAM_133322_1RB#0



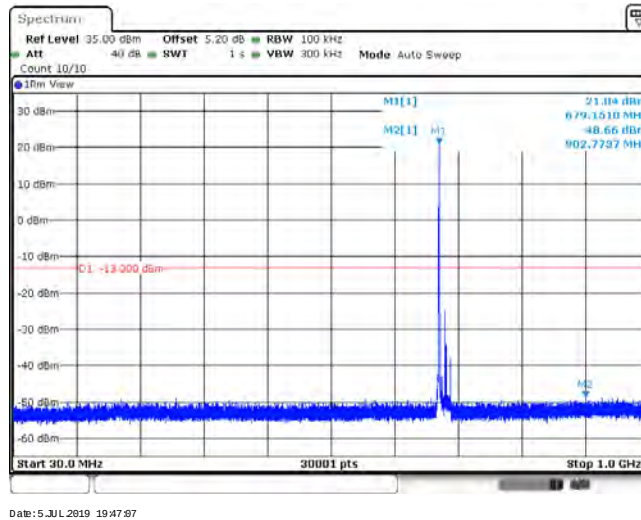
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Band71_20MHz_16QAM_133372_1RB#0

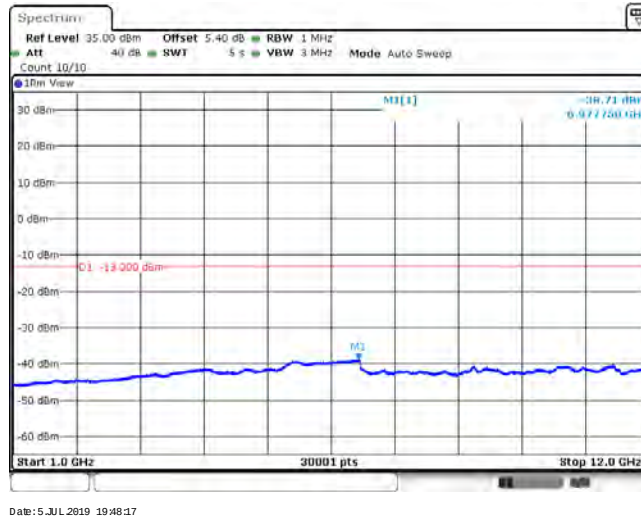


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Band71_20MHz_16QAM_133372_1RB#0



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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 71

7.1.1. Test Mode = LTE/TM1 20MHz

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.0856	-60.50	-13.00	47.50	Vertical
89.7550	-60.31	-13.00	47.31	Vertical
171.9181	-69.78	-13.00	56.78	Vertical
1328.0656	-64.18	-13.00	51.18	Vertical
3000.0000	-55.99	-13.00	42.99	Vertical
17996.9999	-32.36	-13.00	19.36	Vertical
43.9202	-64.65	-13.00	51.65	Horizontal
88.7364	-65.15	-13.00	52.15	Horizontal
234.7287	-67.60	-13.00	54.60	Horizontal
1328.0656	-62.49	-13.00	49.49	Horizontal
2700.3401	-56.12	-13.00	43.12	Horizontal
16398.5359	-37.86	-13.00	24.86	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
31.7461	-60.44	-13.00	47.44	Vertical
89.5610	-59.85	-13.00	46.85	Vertical
476.5618	-67.38	-13.00	54.38	Vertical
3000.0000	-56.31	-13.00	43.31	Vertical
14693.8678	-42.22	-13.00	29.22	Vertical
17990.3996	-32.45	-13.00	19.45	Vertical
35.0443	-63.69	-13.00	50.69	Horizontal
89.3670	-65.48	-13.00	52.48	Horizontal
527.1499	-66.02	-13.00	53.02	Horizontal
1342.8686	-64.49	-13.00	51.49	Horizontal
16393.1357	-38.08	-13.00	25.08	Horizontal
17998.8000	-36.34	-13.00	23.34	Horizontal





7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
32.0371	-60.76	-13.00	47.76	Vertical
89.4640	-61.26	-13.00	48.26	Vertical
455.6088	-67.19	-13.00	54.19	Vertical
1358.0716	-63.51	-13.00	50.51	Vertical
14705.2682	-41.94	-13.00	28.94	Vertical
17999.4000	-32.19	-13.00	19.19	Vertical
35.0443	-64.51	-13.00	51.51	Horizontal
90.0945	-65.63	-13.00	52.63	Horizontal
498.0484	-65.99	-13.00	52.99	Horizontal
1358.0716	-57.39	-13.00	44.39	Horizontal
2447.4895	-53.55	-13.00	40.55	Horizontal
17995.1998	-36.85	-13.00	23.85	Horizontal

Remark:

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.

We have tested all modulation and all Bandwidth , but only the worst case data presented in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

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	-1.00	-0.001486	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	-2.00	-0.002972	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	-0.80	-0.001189	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-2.30	-0.003367	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-2.70	-0.003953	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	-3.00	-0.004360	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	-1.50	-0.002180	±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	-0.10	-0.000149	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VN	NT	-0.50	-0.000743	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VH	NT	-2.90	-0.004309	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VL	NT	-2.00	-0.002928	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VN	NT	-1.90	-0.002782	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VH	NT	-1.70	-0.002489	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VL	NT	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VN	NT	-2.50	-0.003634	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VH	NT	-0.90	-0.001308	±2.5	PASS

8.2. Frequency Vs Temperature

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	-2.10	-0.003120	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	-20	-1.60	-0.002377	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	0	-2.20	-0.003269	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	-0.90	-0.001337	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	-2.20	-0.003269	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	30	-2.40	-0.003566	±2.5	PASS



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Band71	20MHz	QPSK	133222	100RB#0	NV	40	-0.30	-0.000446	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	50	0.00	0.000000	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-1.00	-0.001464	±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	0	-1.70	-0.002489	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-1.70	-0.002489	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-2.20	-0.003221	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-2.10	-0.003075	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-1.20	-0.001757	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-2.80	-0.004100	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-30	-1.00	-0.001453	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-1.10	-0.001599	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	0	-1.60	-0.002326	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	10	-2.70	-0.003924	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	20	-2.60	-0.003779	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-0.50	-0.000727	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-0.90	-0.001308	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	50	-1.40	-0.002035	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-30	-3.10	-0.004606	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-20	-2.20	-0.003269	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	0	-2.10	-0.003120	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	10	-1.50	-0.002229	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	20	0.00	0.000000	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	30	-1.20	-0.001783	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	40	-1.40	-0.002080	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	50	0.00	0.000000	±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	-2.00	-0.002928	±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	-1.20	-0.001757	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	20	-1.80	-0.002635	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	30	-0.50	-0.000732	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	40	-1.70	-0.002489	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	50	-0.80	-0.001171	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-30	-2.20	-0.003198	±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	0	-2.00	-0.002907	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	10	-2.60	-0.003779	±2.5	PASS



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Band71	20MHz	16QAM	133372	100RB#0	NV	20	-2.10	-0.003052	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	30	-1.50	-0.002180	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	40	-1.00	-0.001453	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	50	-1.60	-0.002326	±2.5	PASS

The End



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