



# 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#12	22.03	17.99	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#0	22.34	18.30	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.10	18.06	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#0	21.11	17.07	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#6	21.19	17.15	34.77	PASS
Band71	5MHz	QPSK	133147	12RB#13	21.17	17.13	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.12	17.08	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.07	18.03	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.32	18.28	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.20	18.16	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#0	21.22	17.18	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#13	21.14	17.10	34.77	PASS
Band71	5MHz	QPSK	133297	12RB#6	21.38	17.34	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.25	17.21	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	21.92	17.88	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.16	18.12	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.04	18.00	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#6	21.28	17.24	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#13	21.15	17.11	34.77	PASS
Band71	5MHz	QPSK	133447	12RB#0	21.42	17.38	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.34	17.30	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.36	17.32	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.56	17.52	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.56	17.52	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#0	20.11	16.07	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#6	20.10	16.06	34.77	PASS
Band71	5MHz	16QAM	133147	12RB#13	20.18	16.14	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	20.12	16.08	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.59	17.55	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.78	17.74	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.75	17.71	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#13	20.19	16.15	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#0	20.30	16.26	34.77	PASS
Band71	5MHz	16QAM	133297	12RB#6	20.30	16.26	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.30	16.26	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.52	17.48	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.64	17.60	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.57	17.53	34.77	PASS



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Band71	5MHz	16QAM	133447	12RB#0	20.31	16.27	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#6	20.20	16.16	34.77	PASS
Band71	5MHz	16QAM	133447	12RB#13	20.47	16.43	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.31	16.27	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	22.05	18.01	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.32	18.28	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.14	18.10	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#0	21.00	16.96	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#12	21.15	17.11	34.77	PASS
Band71	10MHz	QPSK	133172	25RB#25	21.16	17.12	34.77	PASS
Band71	10MHz	QPSK	133172	50RB#0	21.13	17.09	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.08	18.04	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.30	18.26	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.08	18.04	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#12	21.16	17.12	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#25	21.29	17.25	34.77	PASS
Band71	10MHz	QPSK	133297	25RB#0	21.43	17.39	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.30	17.26	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	21.94	17.90	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.27	18.23	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.06	18.02	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#25	21.30	17.26	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#12	21.16	17.12	34.77	PASS
Band71	10MHz	QPSK	133422	25RB#0	21.30	17.26	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.25	17.21	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.36	17.32	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.56	17.52	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.52	17.48	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#25	20.06	16.02	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#0	20.12	16.08	34.77	PASS
Band71	10MHz	16QAM	133172	25RB#12	20.09	16.05	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	20.05	16.01	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.48	17.44	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	21.63	17.59	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.67	17.63	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#12	20.27	16.23	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#25	20.25	16.21	34.77	PASS
Band71	10MHz	16QAM	133297	25RB#0	20.42	16.38	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	20.32	16.28	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.49	17.45	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.72	17.68	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.61	17.57	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#0	20.26	16.22	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#12	20.27	16.23	34.77	PASS
Band71	10MHz	16QAM	133422	25RB#25	20.47	16.43	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	20.28	16.24	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.07	18.03	34.77	PASS



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Band71	15MHz	QPSK	133197	1RB#0	22.26	18.22	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.11	18.07	34.77	PASS
Band71	15MHz	QPSK	133197	36RB#39	21.02	16.98	34.77	PASS
Band71	15MHz	QPSK	133197	36RB#18	21.18	17.14	34.77	PASS
Band71	15MHz	QPSK	133197	36RB#0	21.26	17.22	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.04	17.00	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.10	18.06	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.39	18.35	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	22.14	18.10	34.77	PASS
Band71	15MHz	QPSK	133297	36RB#0	21.17	17.13	34.77	PASS
Band71	15MHz	QPSK	133297	36RB#39	21.18	17.14	34.77	PASS
Band71	15MHz	QPSK	133297	36RB#18	21.33	17.29	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.34	17.30	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	21.85	17.81	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.17	18.13	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.12	18.08	34.77	PASS
Band71	15MHz	QPSK	133397	36RB#18	21.24	17.20	34.77	PASS
Band71	15MHz	QPSK	133397	36RB#0	21.28	17.24	34.77	PASS
Band71	15MHz	QPSK	133397	36RB#39	21.31	17.27	34.77	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.27	17.23	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.47	17.43	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.60	17.56	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.49	17.45	34.77	PASS
Band71	15MHz	16QAM	133197	36RB#0	20.15	16.11	34.77	PASS
Band71	15MHz	16QAM	133197	36RB#39	20.18	16.14	34.77	PASS
Band71	15MHz	16QAM	133197	36RB#18	20.17	16.13	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	20.01	15.97	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.49	17.45	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.70	17.66	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.76	17.72	34.77	PASS
Band71	15MHz	16QAM	133297	36RB#18	20.18	16.14	34.77	PASS
Band71	15MHz	16QAM	133297	36RB#0	20.30	16.26	34.77	PASS
Band71	15MHz	16QAM	133297	36RB#39	20.36	16.32	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	20.25	16.21	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.46	17.42	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.68	17.64	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.59	17.55	34.77	PASS
Band71	15MHz	16QAM	133397	36RB#0	20.30	16.26	34.77	PASS
Band71	15MHz	16QAM	133397	36RB#39	20.21	16.17	34.77	PASS
Band71	15MHz	16QAM	133397	36RB#18	20.35	16.31	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.25	16.21	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.19	18.15	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	22.48	18.44	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.26	18.22	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#25	21.25	17.21	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#0	21.33	17.29	34.77	PASS
Band71	20MHz	QPSK	133222	50RB#50	21.39	17.35	34.77	PASS



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Band71	20MHz	QPSK	133322	1RB#99	22.21	18.17	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.54	18.50	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.32	18.28	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#25	21.41	17.37	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#0	21.39	17.35	34.77	PASS
Band71	20MHz	QPSK	133322	50RB#50	21.56	17.52	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.46	17.42	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.10	18.06	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.39	18.35	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.25	18.21	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#0	21.48	17.44	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#25	21.39	17.35	34.77	PASS
Band71	20MHz	QPSK	133372	50RB#50	21.55	17.51	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.49	17.45	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.60	17.56	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.79	17.75	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.71	17.67	34.77	PASS
Band71	20MHz	16QAM	133222	50RB#50	20.28	16.24	34.77	PASS
Band71	20MHz	16QAM	133222	50RB#0	20.35	16.31	34.77	PASS
Band71	20MHz	16QAM	133222	50RB#25	20.31	16.27	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	20.26	16.22	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.71	17.67	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.88	17.84	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.87	17.83	34.77	PASS
Band71	20MHz	16QAM	133322	50RB#0	20.41	16.37	34.77	PASS
Band71	20MHz	16QAM	133322	50RB#50	20.42	16.38	34.77	PASS
Band71	20MHz	16QAM	133322	50RB#25	20.52	16.48	34.77	PASS
Band71	20MHz	16QAM	133322	100RB#0	20.44	16.40	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.64	17.60	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.83	17.79	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.78	17.74	34.77	PASS
Band71	20MHz	16QAM	133372	50RB#0	20.51	16.47	34.77	PASS
Band71	20MHz	16QAM	133372	50RB#25	20.39	16.35	34.77	PASS
Band71	20MHz	16QAM	133372	50RB#50	20.58	16.54	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.49	16.45	34.77	PASS

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

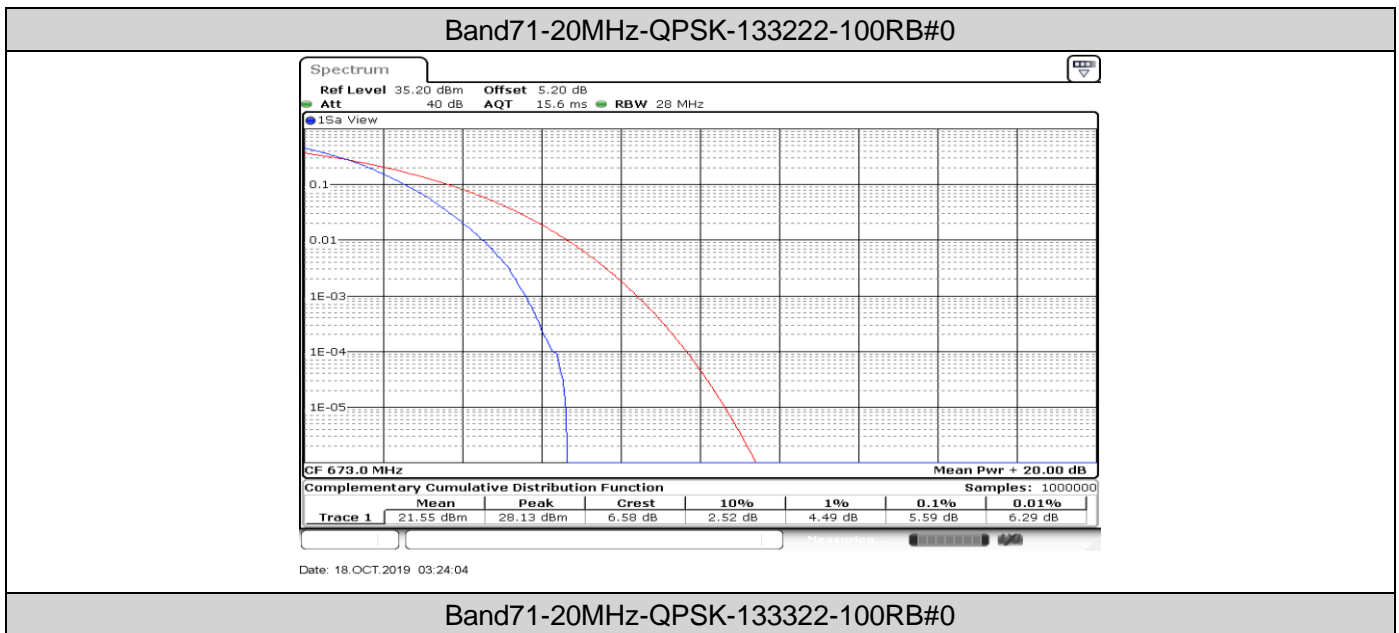


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

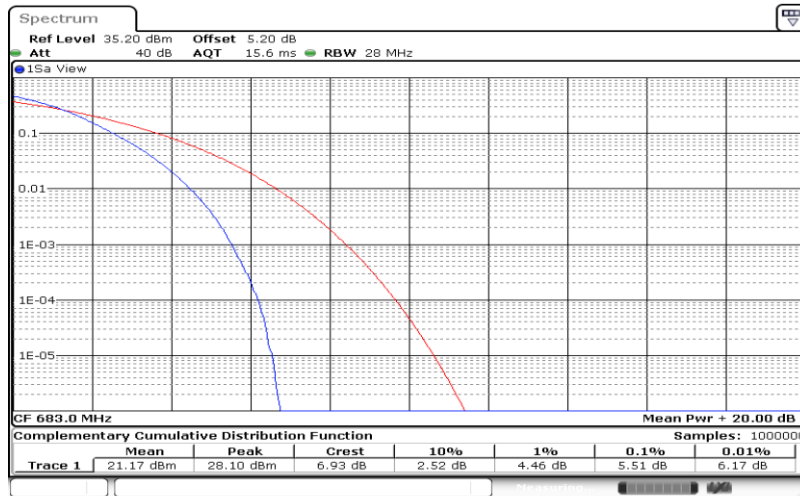
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.59	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.51	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.74	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.29	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.29	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.41	13	PASS

### 2.2. Test Plots



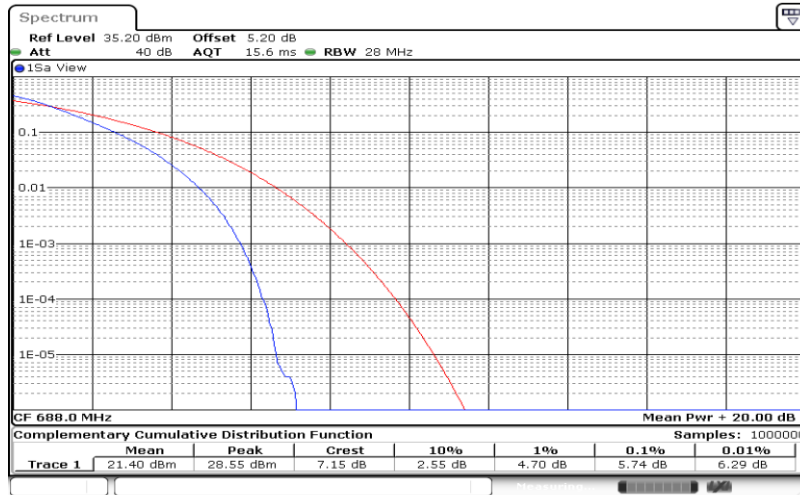
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Date: 18.OCT.2019 03:24:26

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



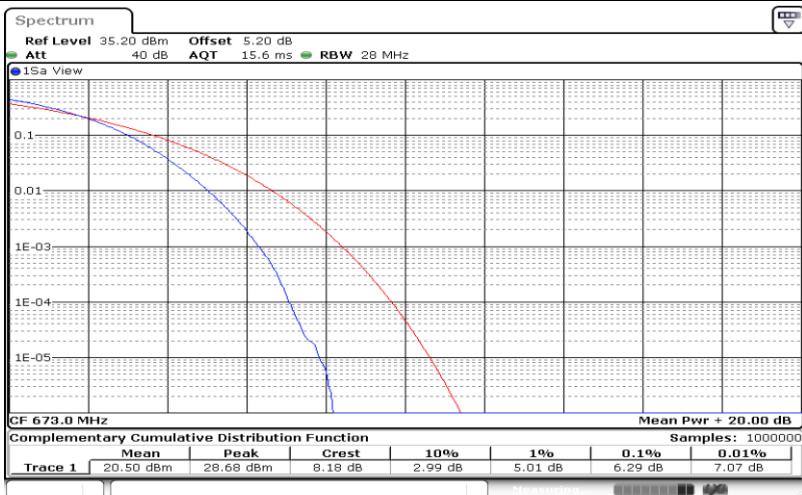
Date: 18.OCT.2019 03:24:48

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



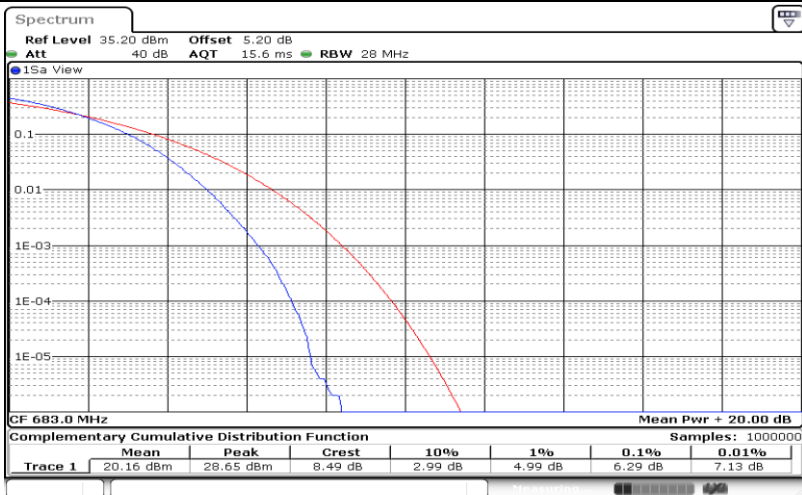
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Date: 18.OCT.2019 03:24:15

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



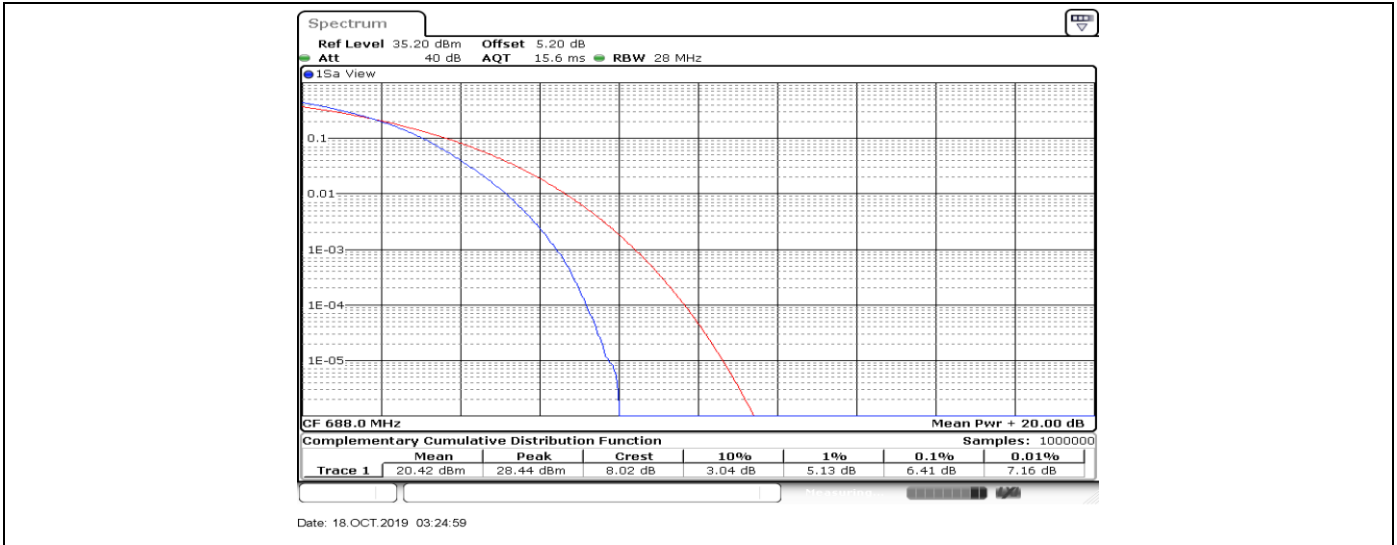
Date: 18.OCT.2019 03:24:37

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



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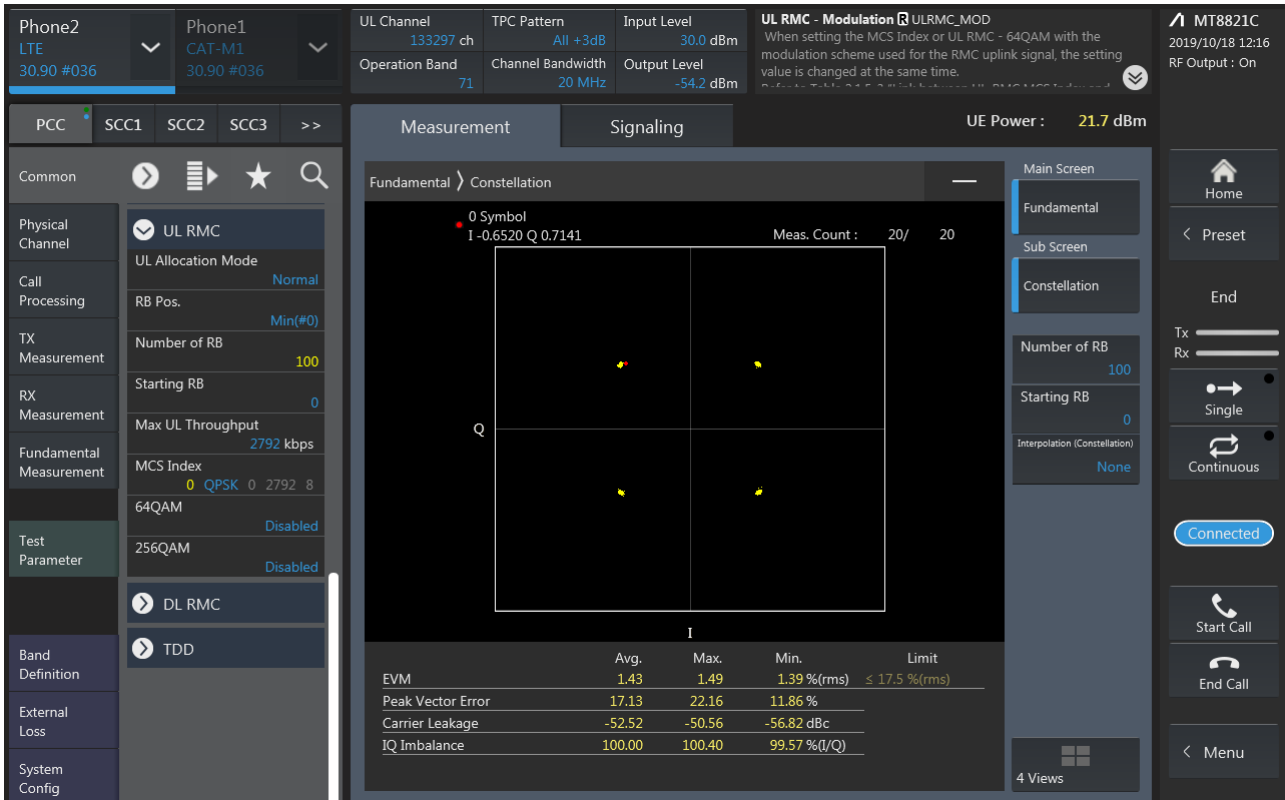


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### 3. Modulation Characteristics

#### 3.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1. Test Channel = MCH



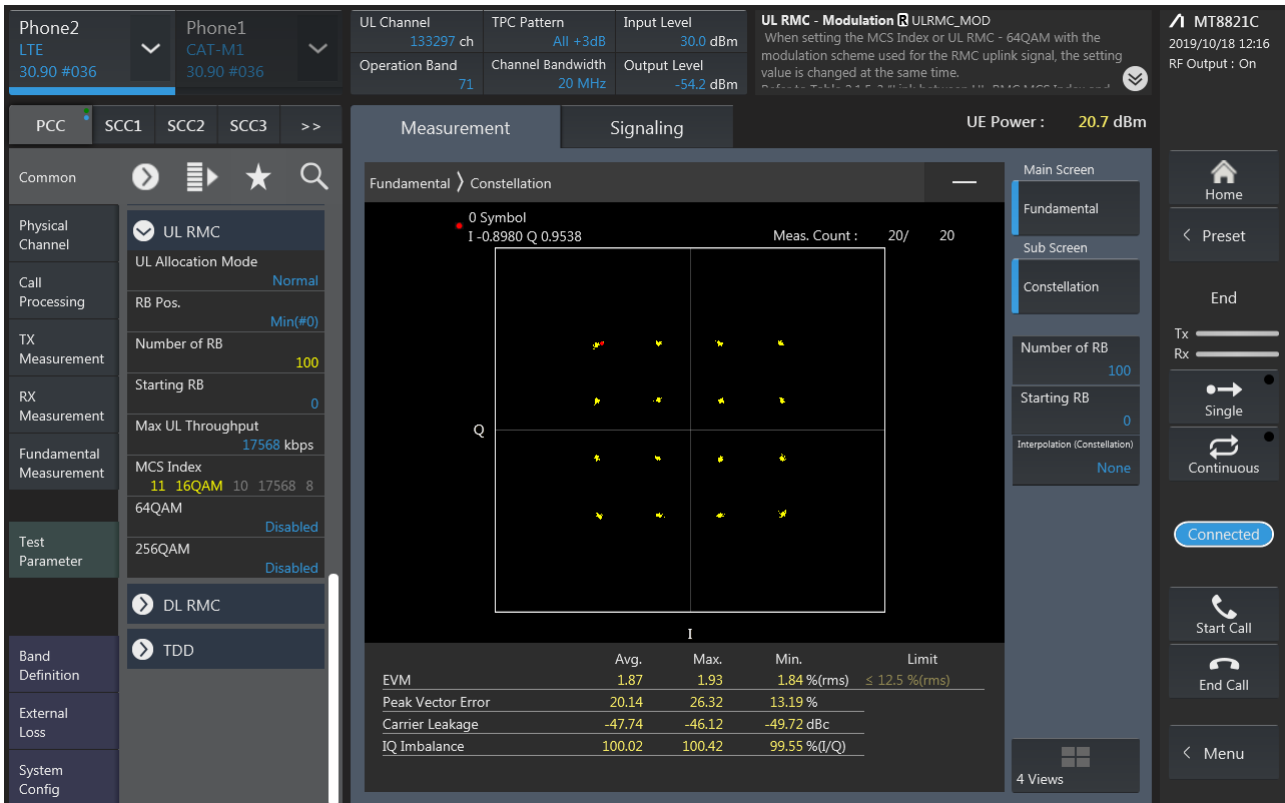
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### 3.2. Test Mode = LTE /TM2 20MHz

#### 3.2.1. Test Channel = MCH



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## 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	4.990	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.466	5.080	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.466	4.970	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.496	5.060	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.496	5.060	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.476	5.050	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.951	9.820	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.911	9.840	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.891	9.780	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.931	9.880	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.911	9.820	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.891	9.780	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.546	15.210	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.397	14.940	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.457	15.150	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.546	15.210	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.397	14.880	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.487	15.540	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.862	19.480	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.862	19.640	PASS
Band71	20MHz	QPSK	133372	100RB#0	18.022	20.680	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.902	19.440	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.862	19.520	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.982	19.720	PASS

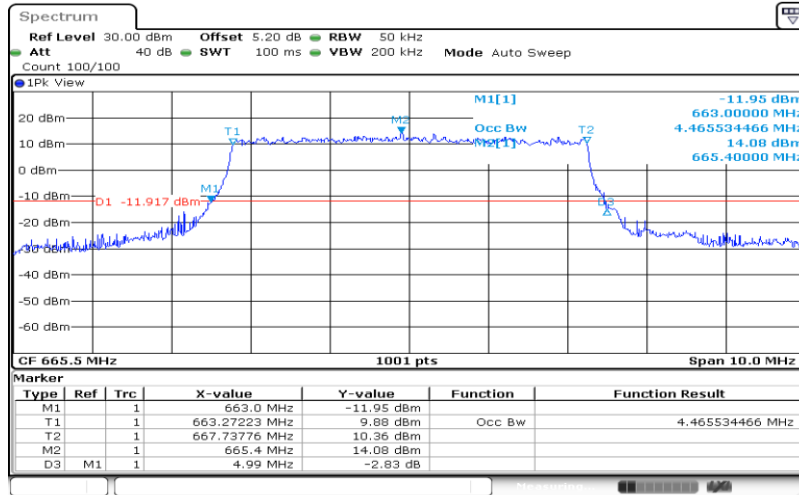


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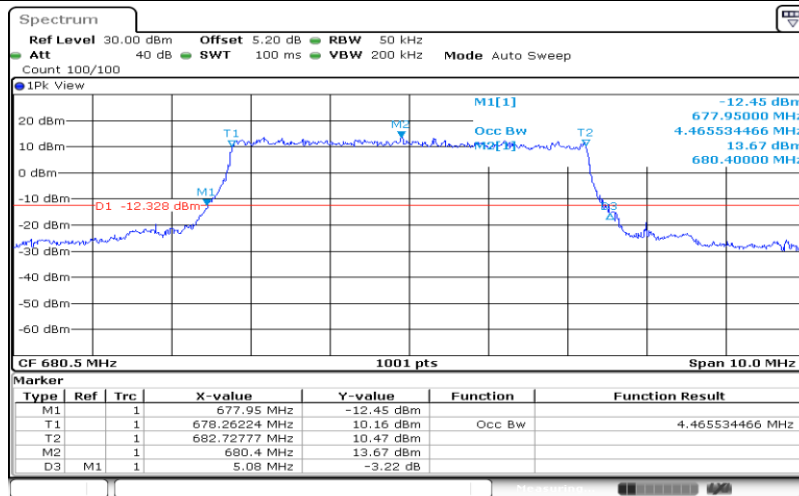
## 4.2. Test Plots

Band71-5MHz-QPSK-133147-25RB#0-4.466



Date: 18.OCT.2019 02:58:23

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

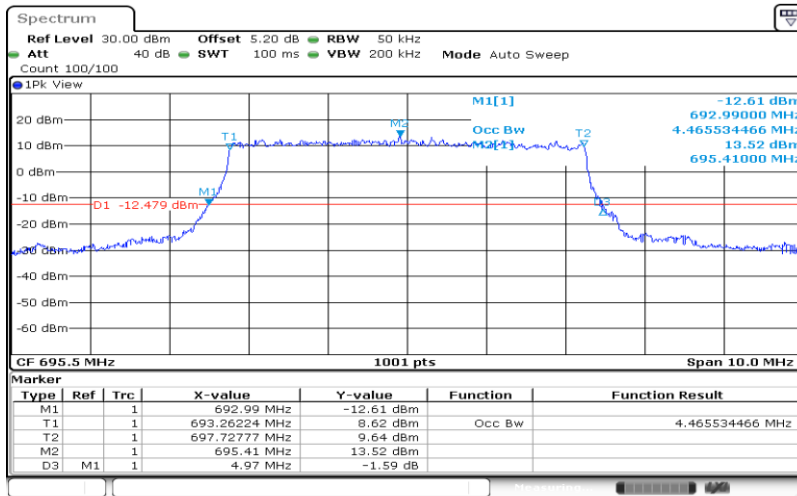


Date: 18.OCT.2019 02:59:03

Band71-5MHz-QPSK-133447-25RB#0-4.466

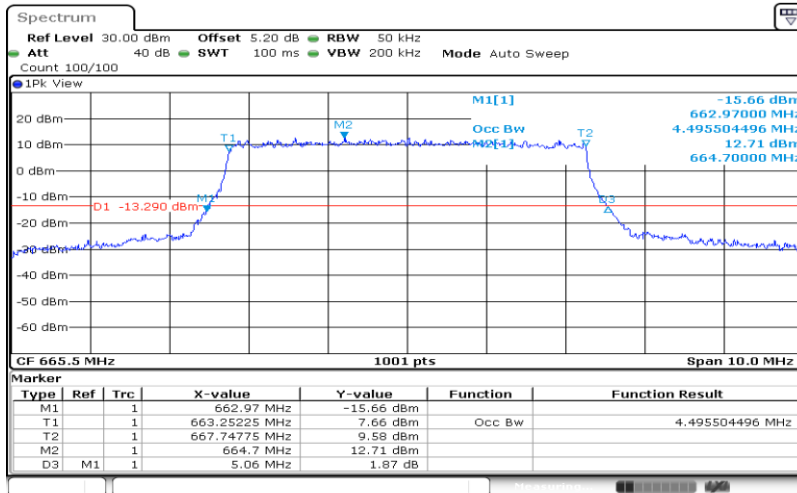


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Date: 18.OCT.2019 02:59:42

**Band71-5MHz-16QAM-133147-25RB#0-4.496**

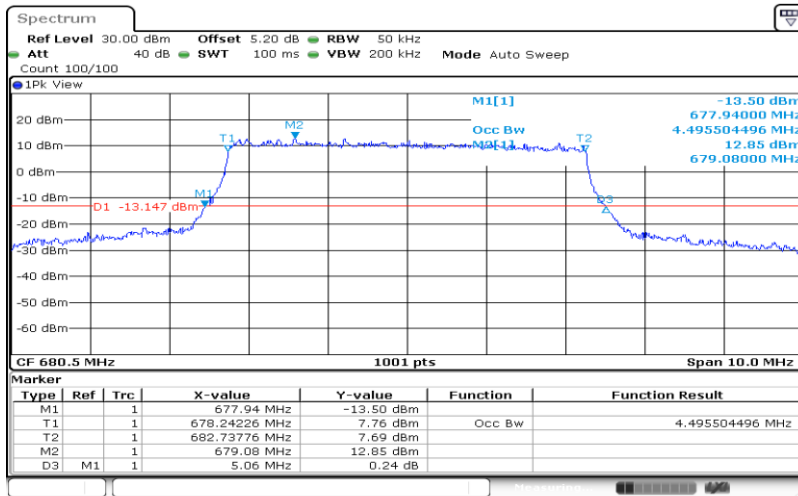


Date: 18.OCT.2019 02:58:43

**Band71-5MHz-16QAM-133297-25RB#0-4.496**

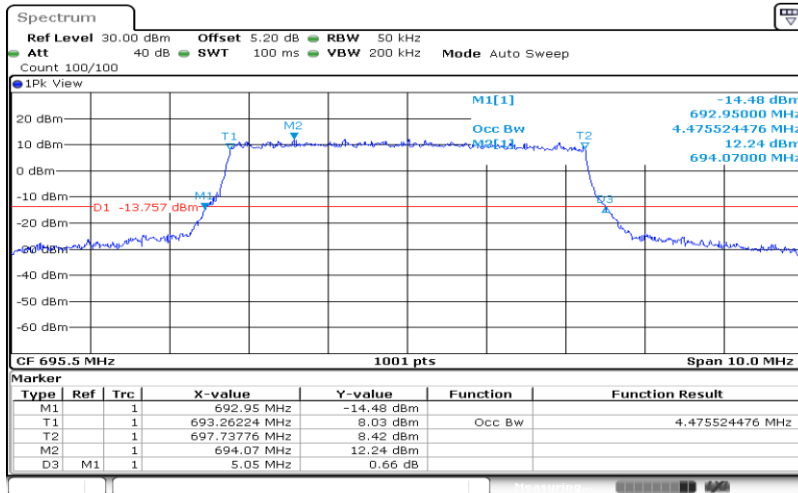


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Date: 18.OCT.2019 02:59:22

**Band71-5MHz-16QAM-133447-25RB#0-4.476**



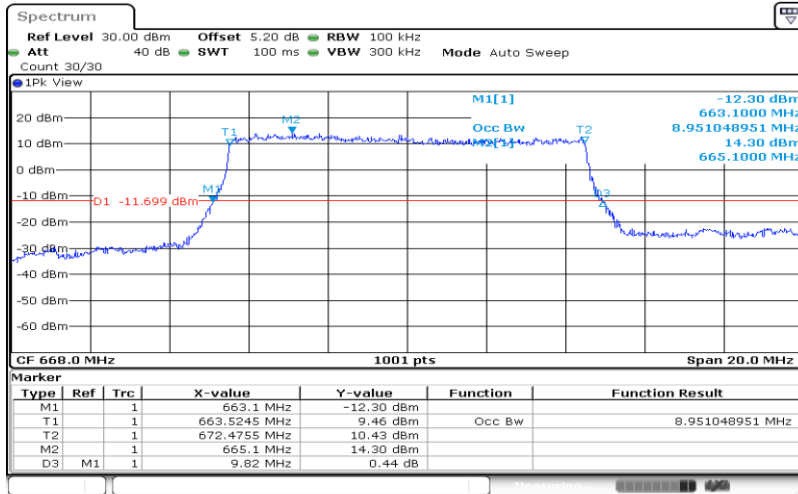
Date: 18.OCT.2019 03:00:02

**Band71-10MHz-QPSK-133172-50RB#0-8.951**



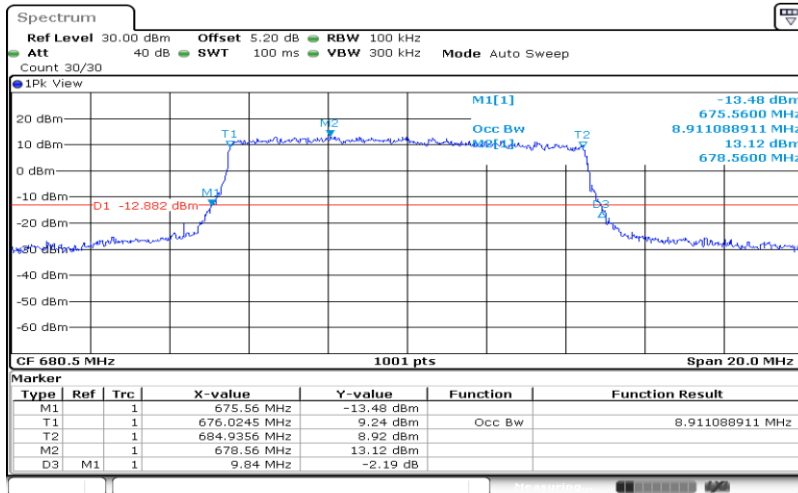
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Date: 18.OCT.2019 03:00:19

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

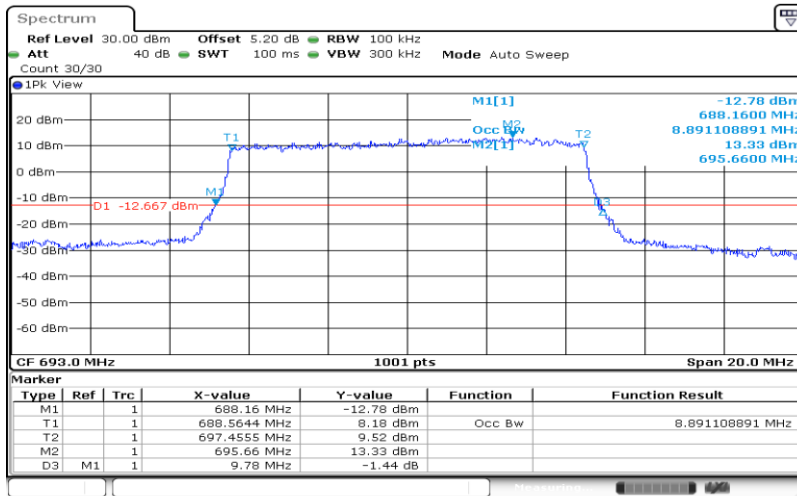


Date: 18.OCT.2019 03:00:45

**Band71-10MHz-QPSK-133422-50RB#0-8.891**

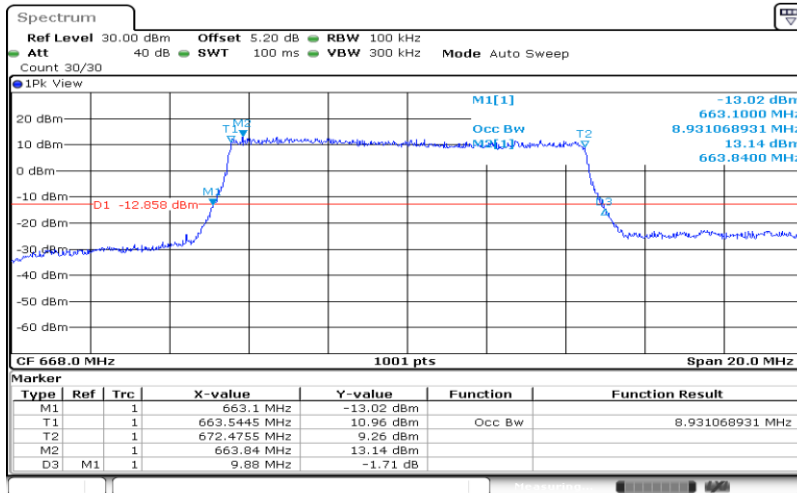


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Date: 18.OCT.2019 03:01:10

**Band71-10MHz-16QAM-133172-50RB#0-8.931**

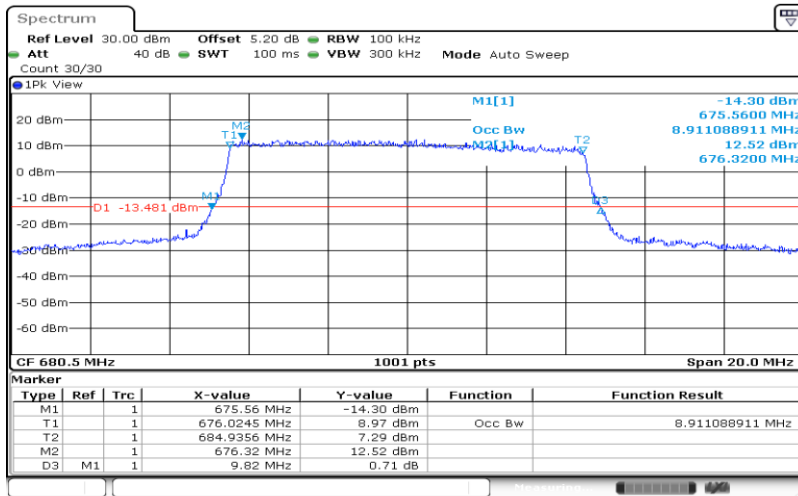


Date: 18.OCT.2019 03:00:32

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

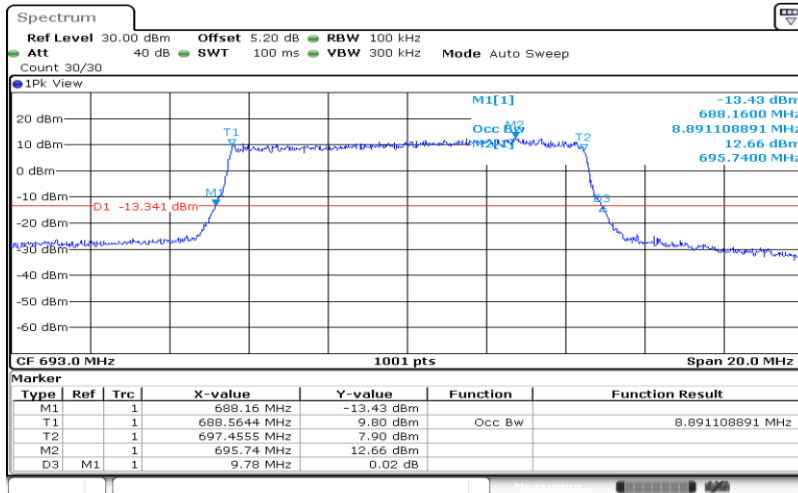


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Date: 18.OCT.2019 03:00:57

**Band71-10MHz-16QAM-133422-50RB#0-8.891**

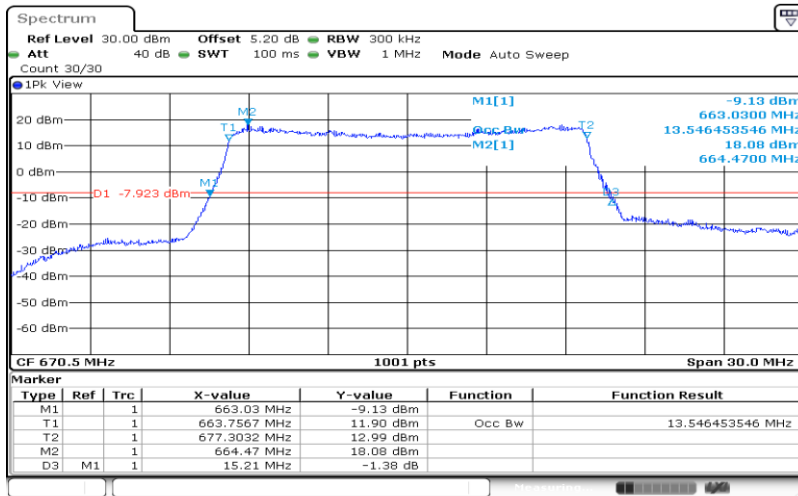


Date: 18.OCT.2019 03:01:23

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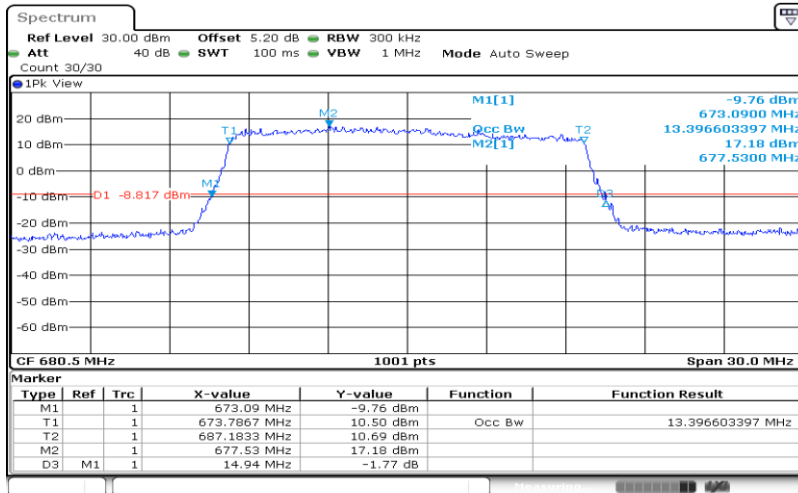


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Date: 18.OCT.2019 03:01:40

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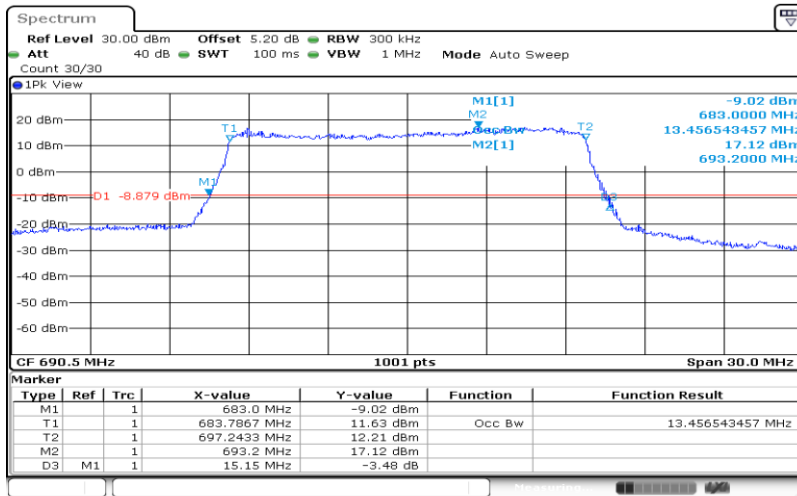


Date: 18.OCT.2019 03:02:05

**Band71-15MHz-QPSK-133397-75RB#0-13.457**

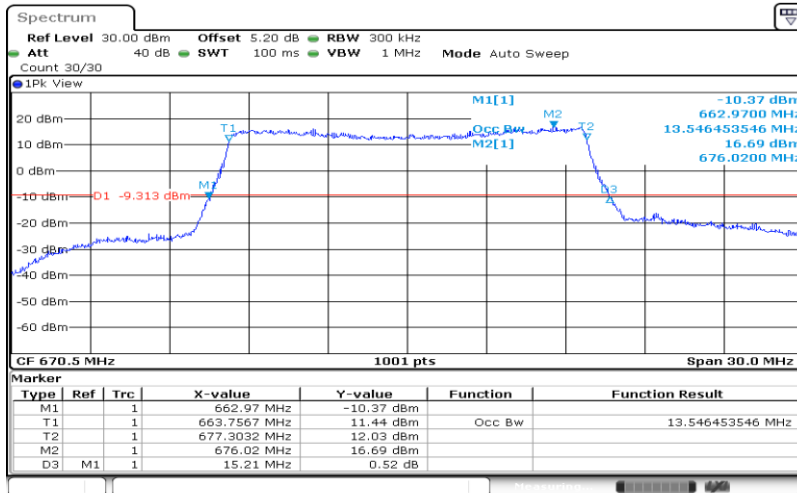


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Date: 18.OCT.2019 03:02:31

**Band71-15MHz-16QAM-133197-75RB#0-13.546**

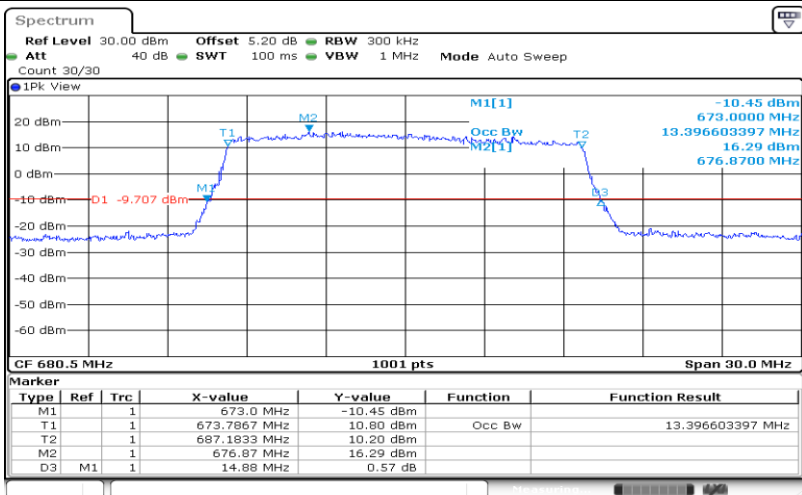


Date: 18.OCT.2019 03:01:53

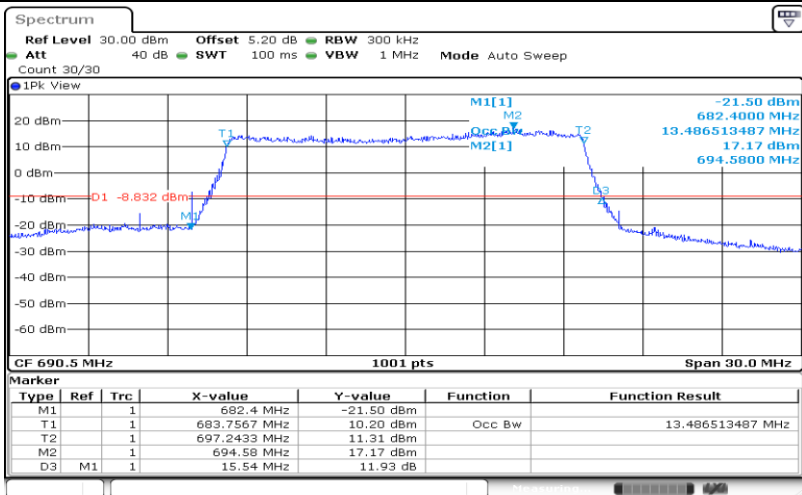
**Band71-15MHz-16QAM-133297-75RB#0-13.397**



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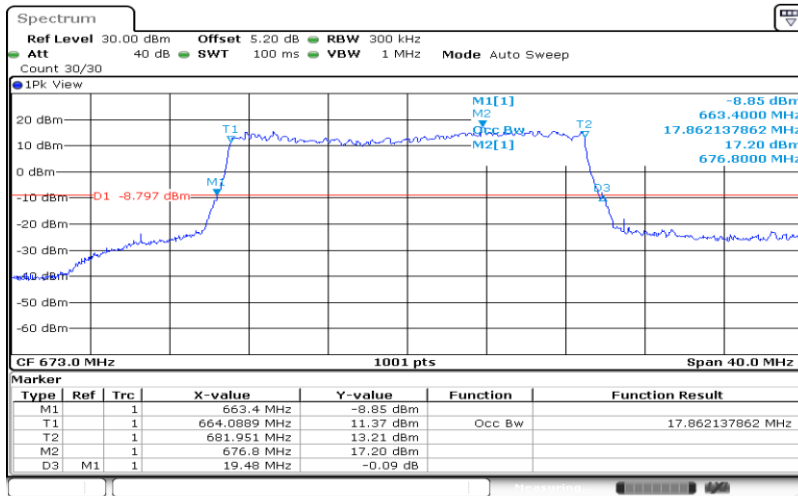
**Band71-15MHz-16QAM-133397-75RB#0-13.487**



**Band71-20MHz-QPSK-133222-100RB#0-17.862**

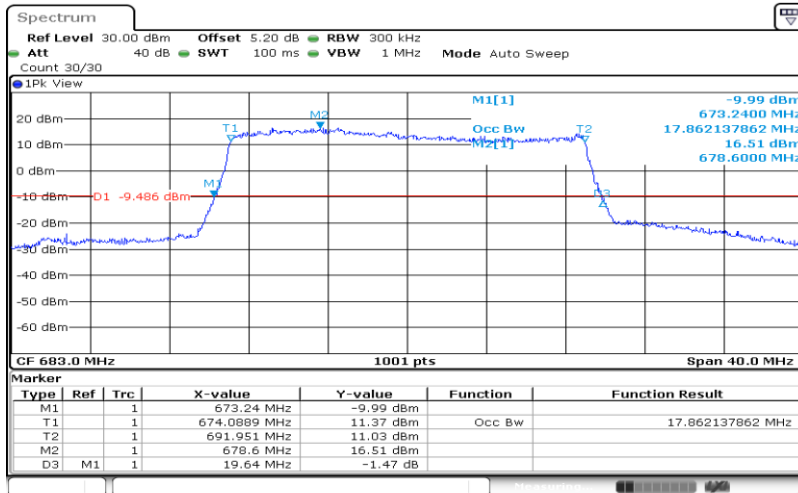


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Date: 18.OCT.2019 03:03:01

**Band71-20MHz-QPSK-133322-100RB#0-17.862**

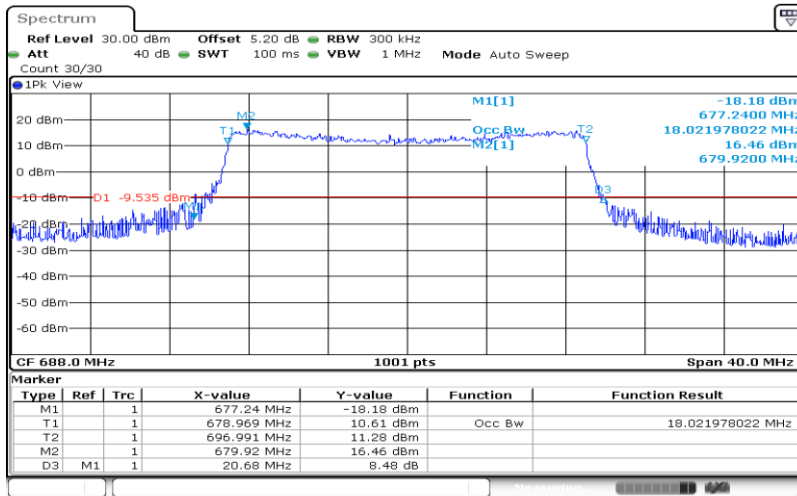


Date: 18.OCT.2019 03:03:26

**Band71-20MHz-QPSK-133372-100RB#0-18.022**

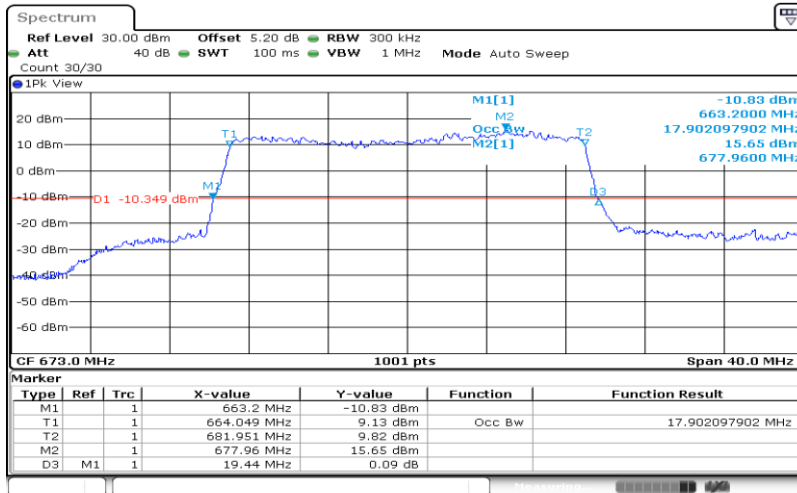


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Date: 18.OCT.2019 03:03:52

**Band71-20MHz-16QAM-133222-100RB#0-17.902**



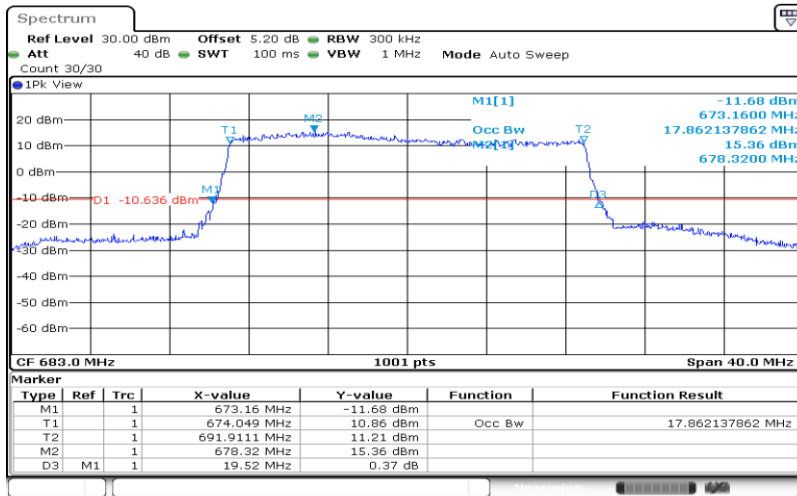
Date: 18.OCT.2019 03:03:13

**Band71-20MHz-16QAM-133322-100RB#0-17.862**



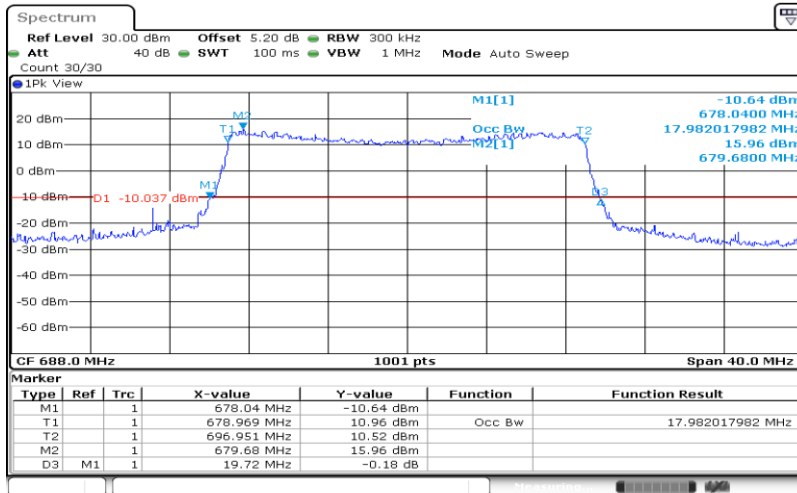
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Date: 18.OCT.2019 03:03:39

**Band71-20MHz-16QAM-133372-100RB#0-17.982**



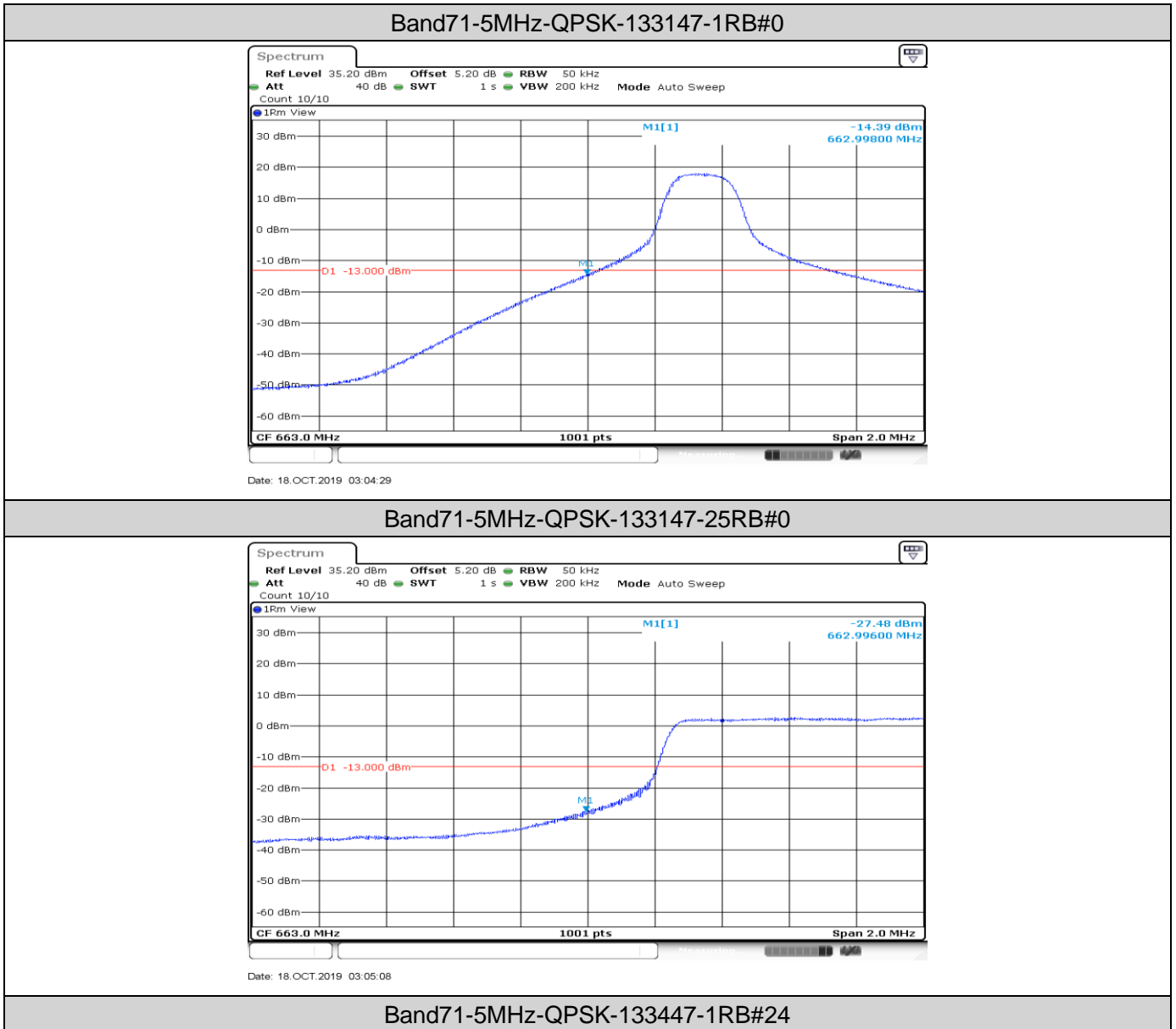
Date: 18.OCT.2019 03:04:04



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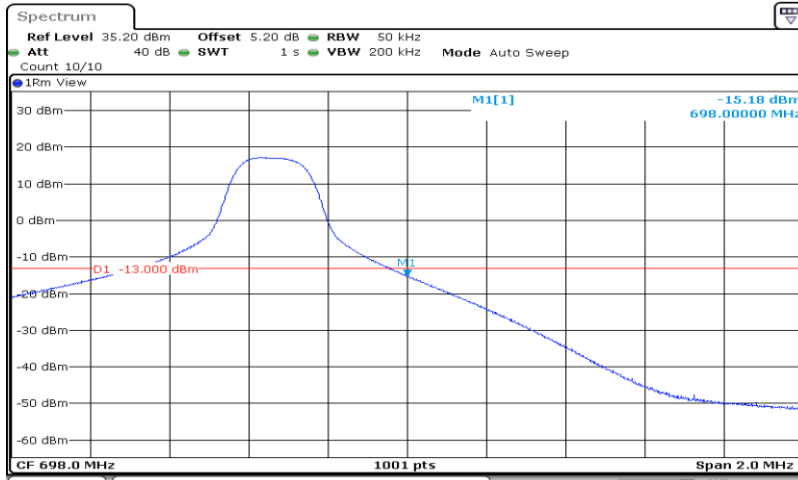
## 5. Band Edge Compliance

### 5.1. Test Plots



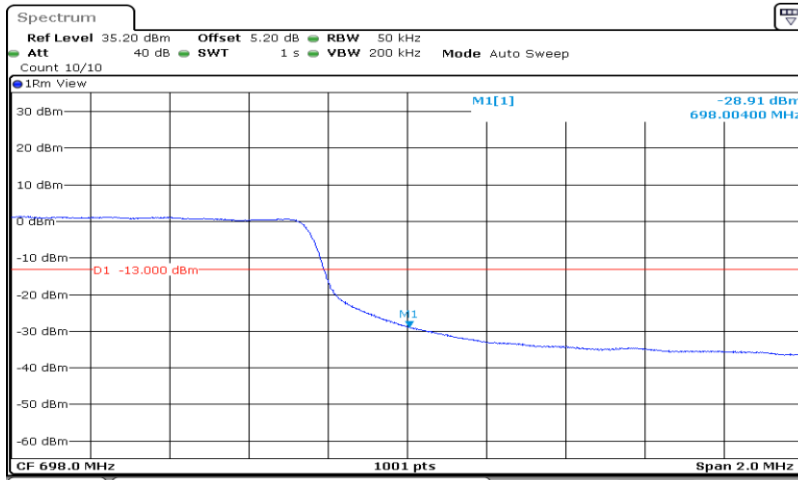
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Date: 18.OCT.2019 03:05:51

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

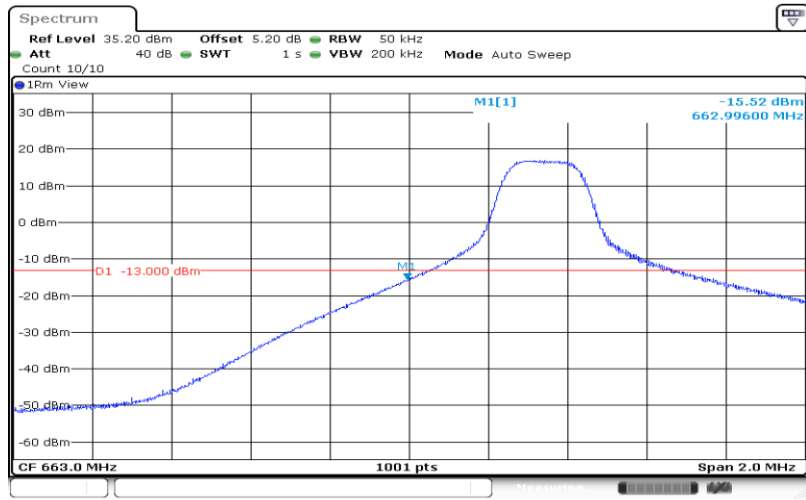


Date: 18.OCT.2019 03:06:30

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

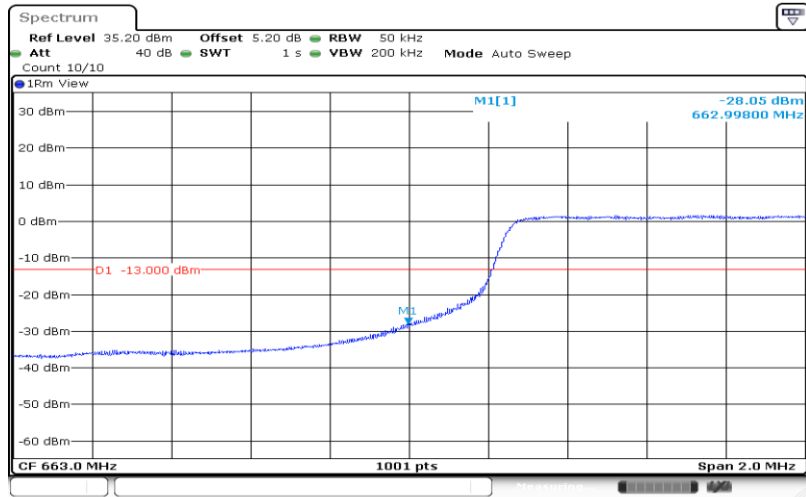


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Date: 18.OCT.2019 03:04:48

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



Date: 18.OCT.2019 03:05:27

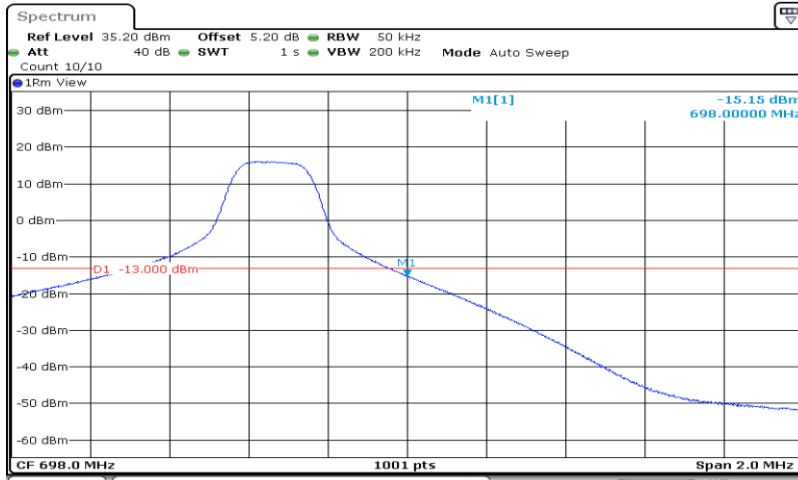
**Band71-5MHz-16QAM-133447-1RB#24**



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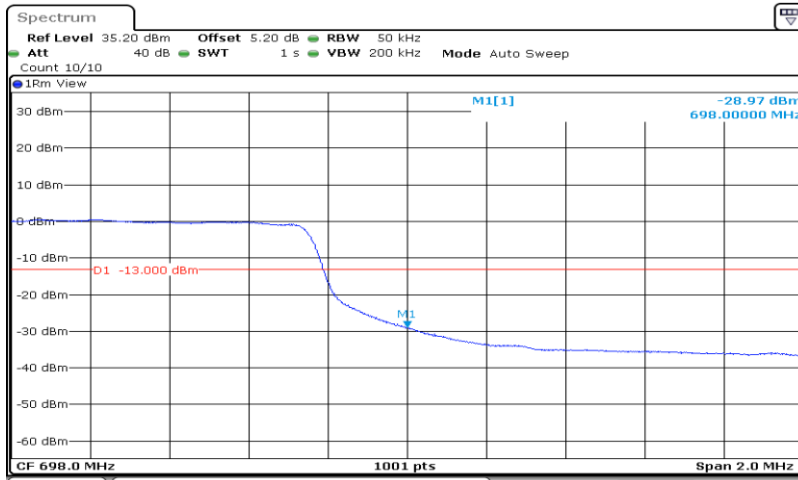
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Date: 18.OCT.2019 03:06:10

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

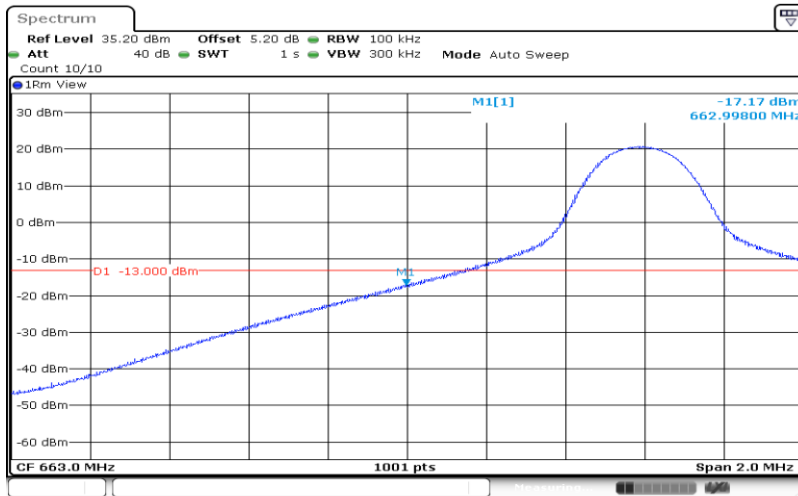


Date: 18.OCT.2019 03:06:49

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

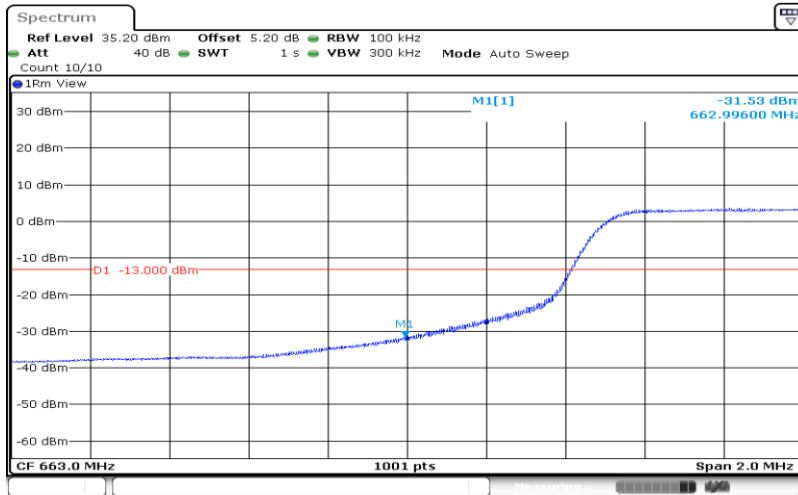


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Date: 18.OCT.2019 03:07:14

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

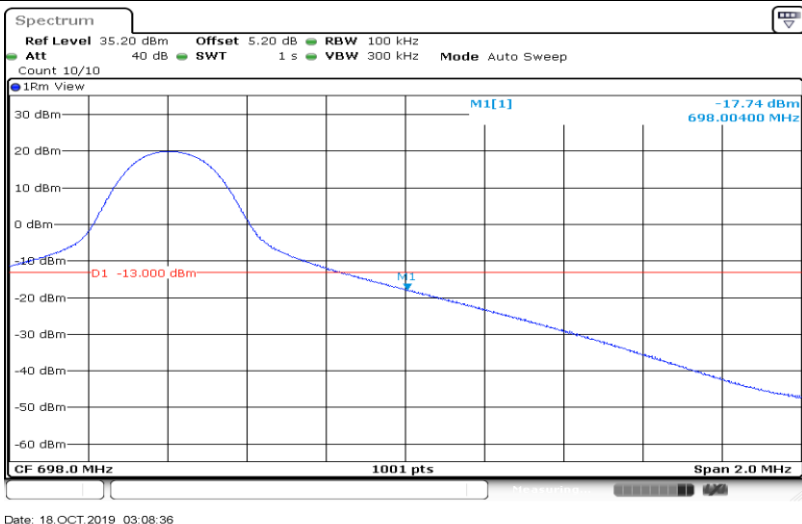


Date: 18.OCT.2019 03:07:52

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



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

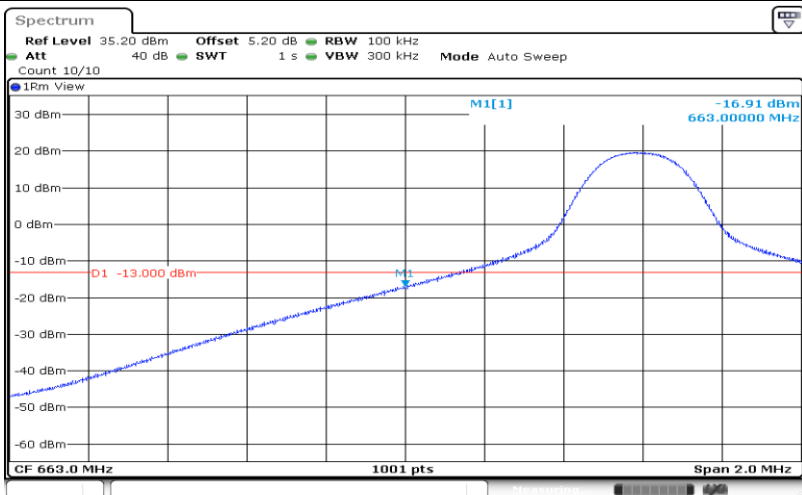


**Band71-10MHz-16QAM-133172-1RB#0**



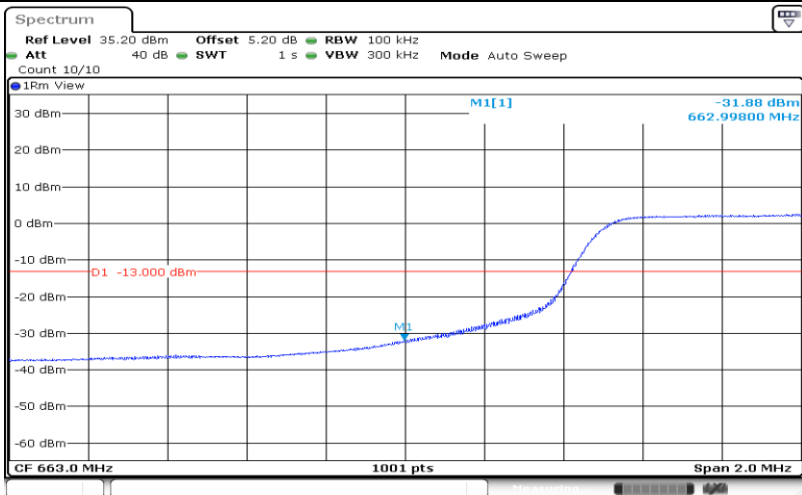
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Date: 18.OCT.2019 03:07:33

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



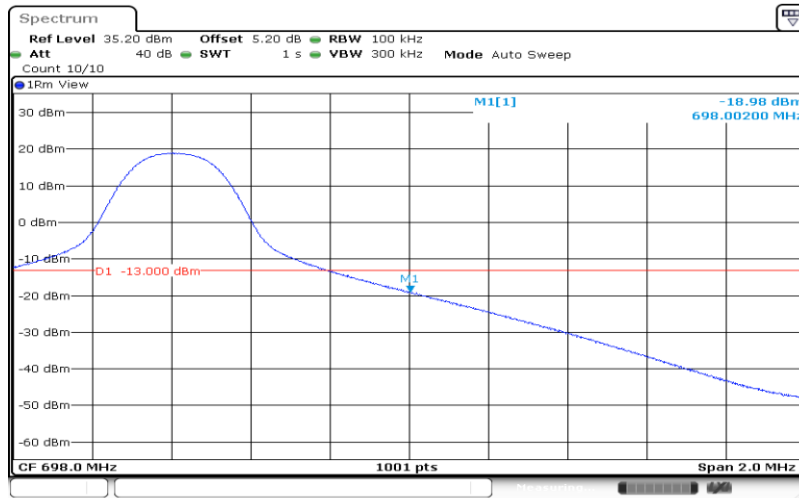
Date: 18.OCT.2019 03:08:12

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



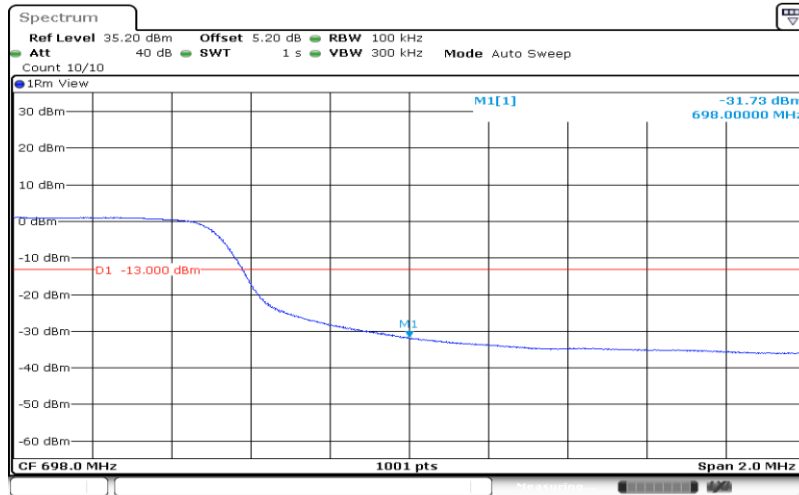
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Date: 18.OCT.2019 03:08:55

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



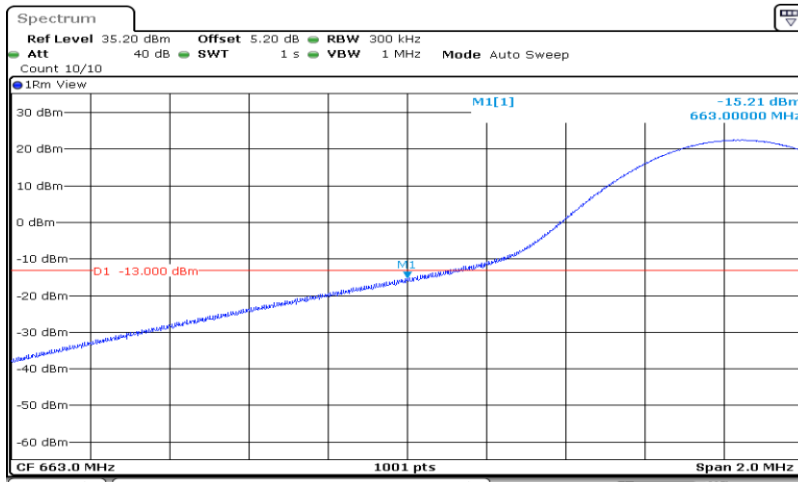
Date: 18.OCT.2019 03:09:34

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



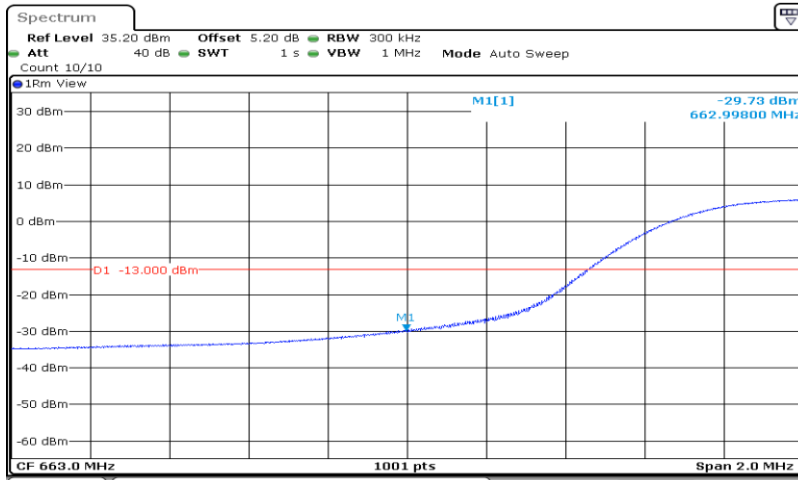
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Date: 18.OCT.2019 03:09:58

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

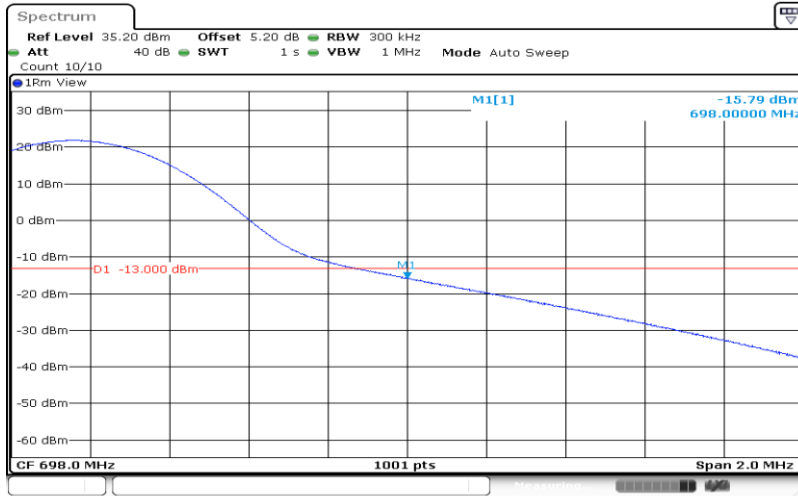


Date: 18.OCT.2019 03:10:37

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

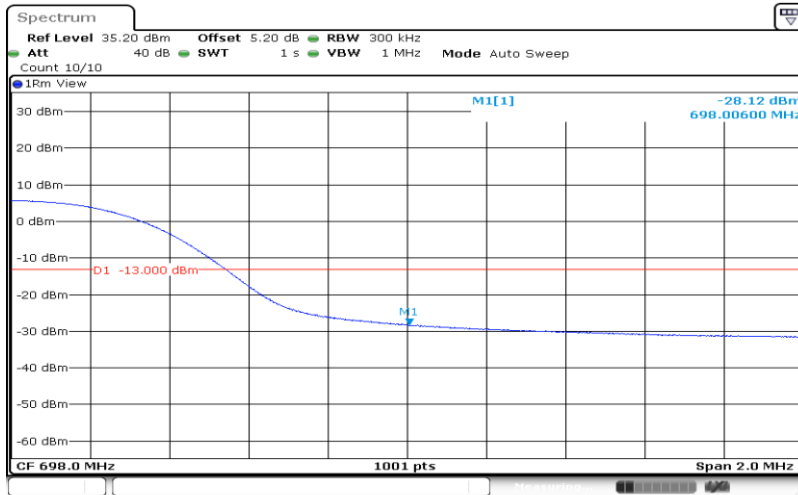


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Date: 18.OCT.2019 03:11:20

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

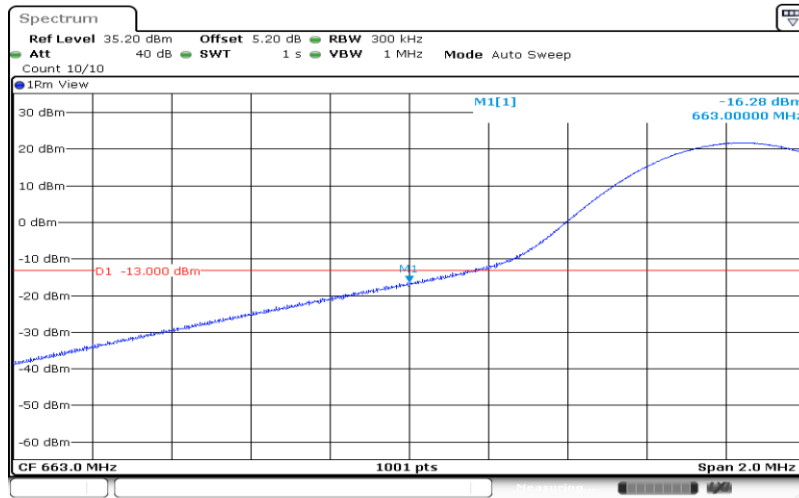


Date: 18.OCT.2019 03:11:59

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

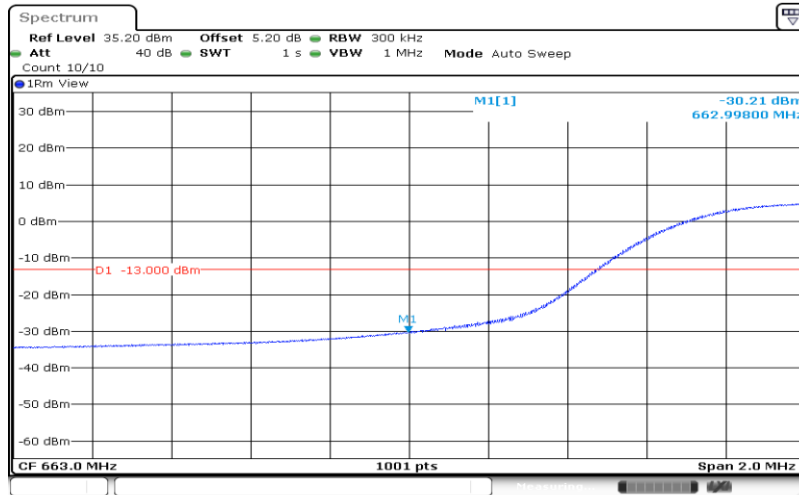


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Date: 18.OCT.2019 03:10:18

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



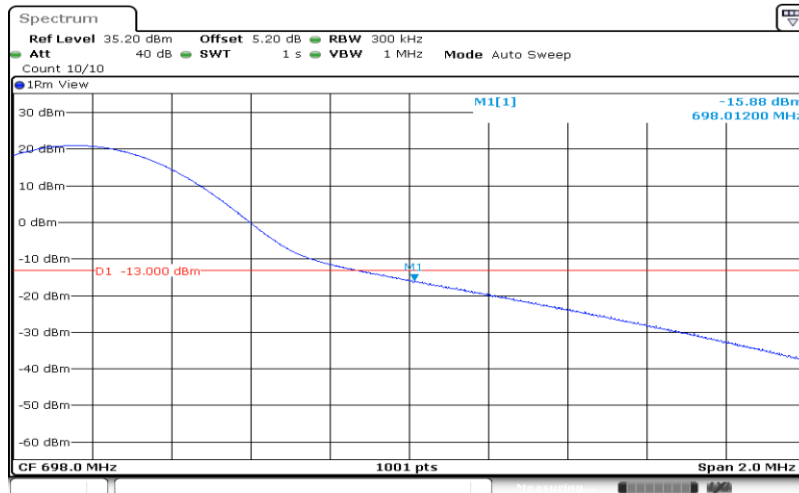
Date: 18.OCT.2019 03:10:56

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



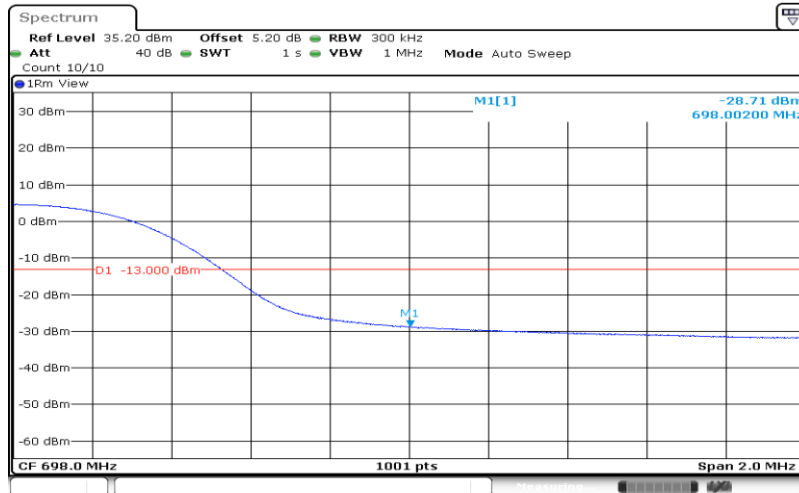
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Date: 18.OCT.2019 03:11:40

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

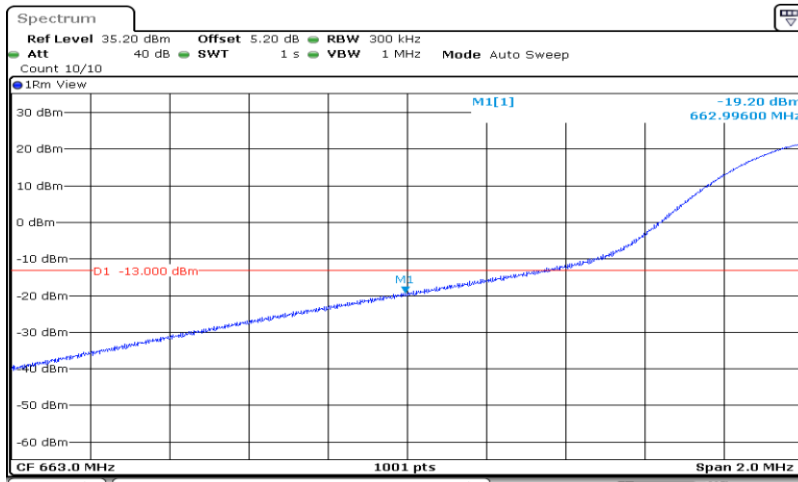


Date: 18.OCT.2019 03:12:18

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

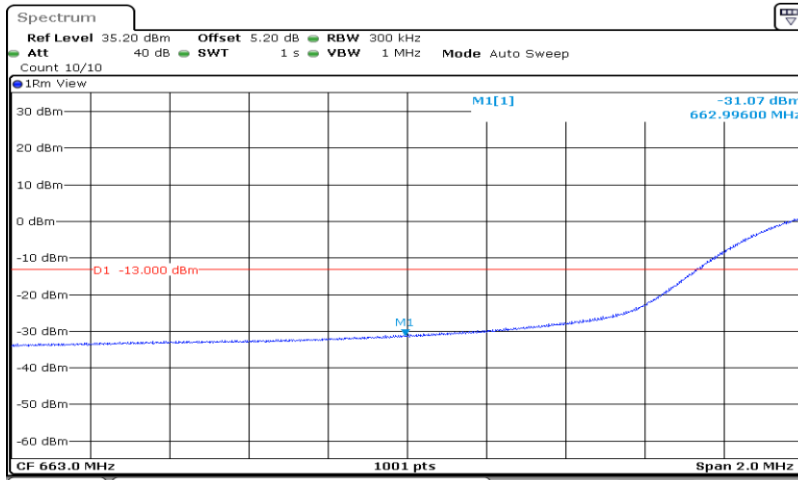


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Date: 18.OCT.2019 03:12:43

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

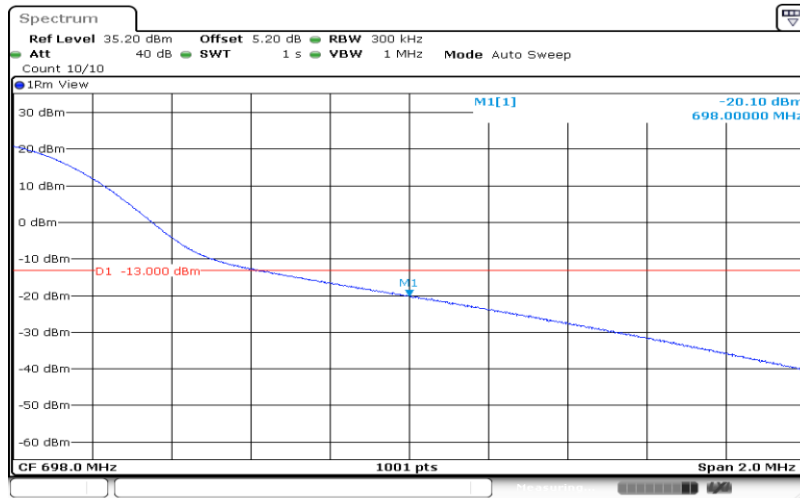


Date: 18.OCT.2019 03:13:21

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

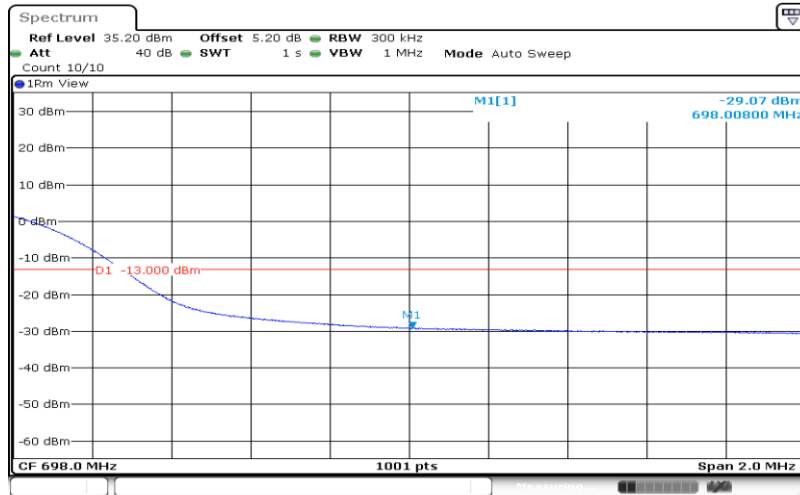


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Date: 18.OCT.2019 03:14:05

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

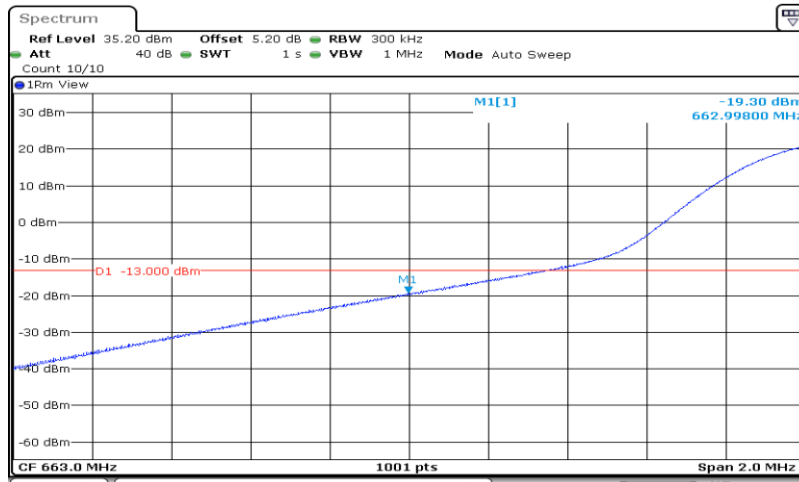


Date: 18.OCT.2019 03:14:43

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

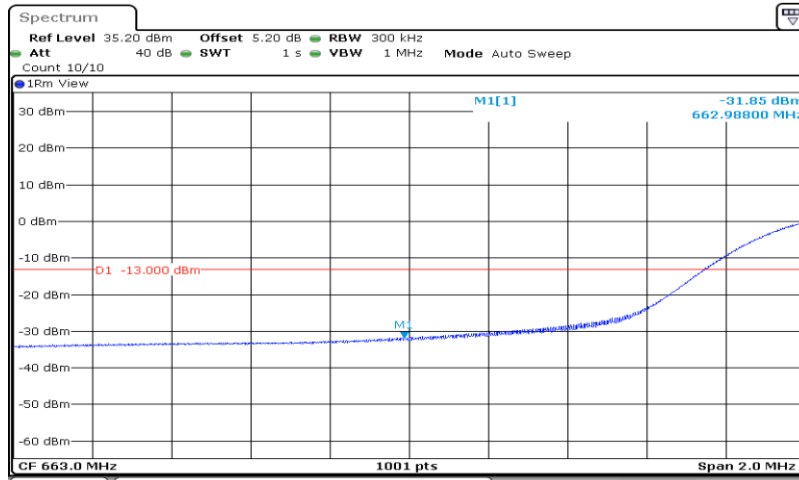


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Date: 18.OCT.2019 03:13:02

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



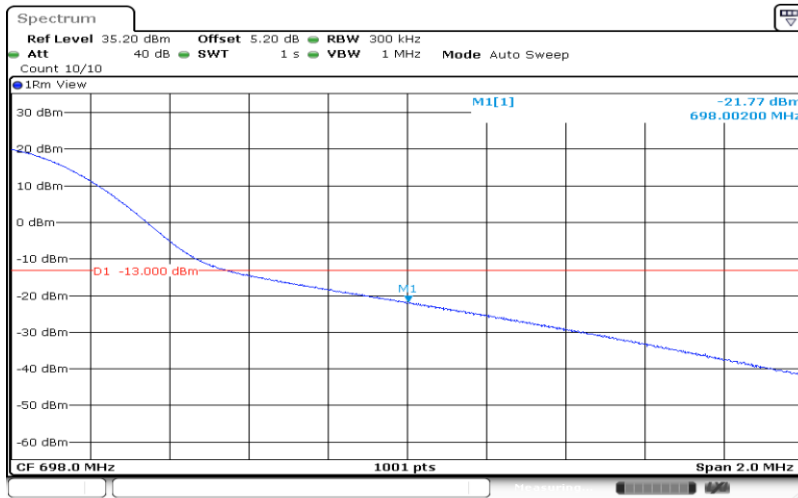
Date: 18.OCT.2019 03:13:41

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



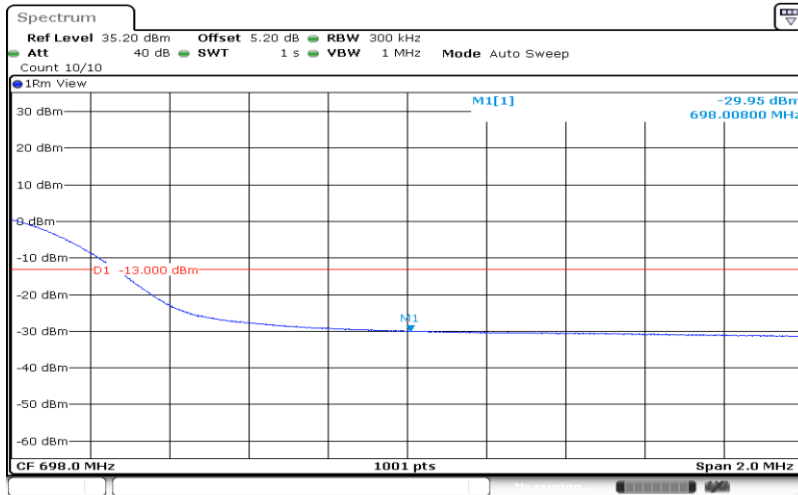
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Date: 18.OCT.2019 03:14:24

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



Date: 18.OCT.2019 03:15:03



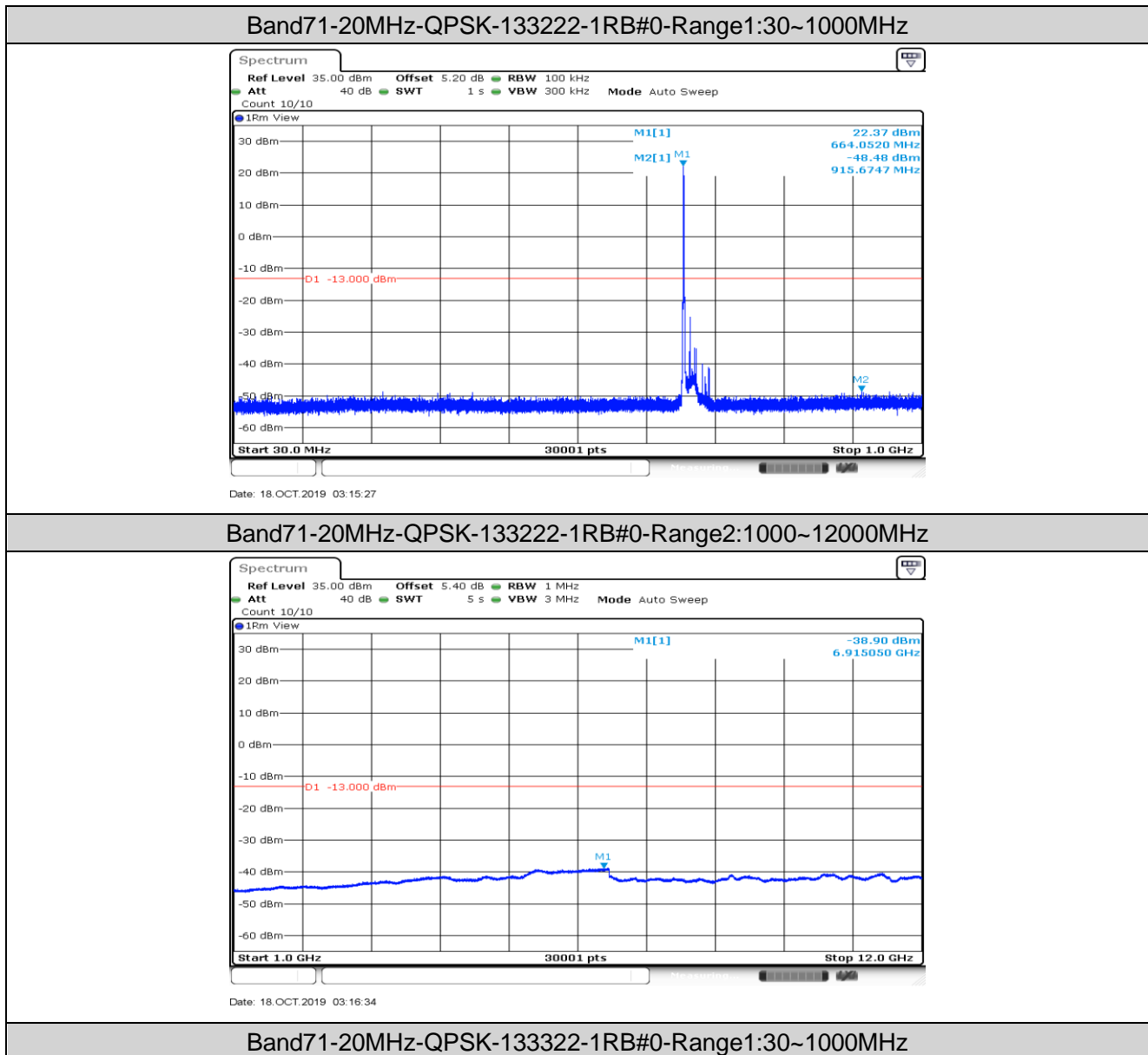
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## 6. Spurious Emission at Antenna Terminal

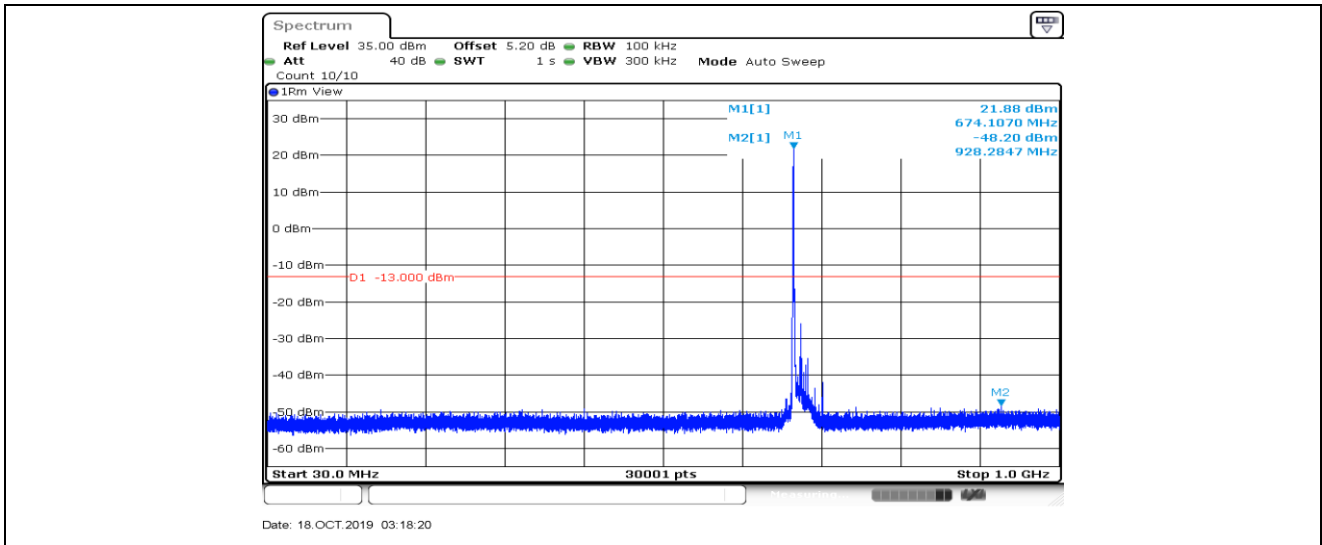
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points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

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

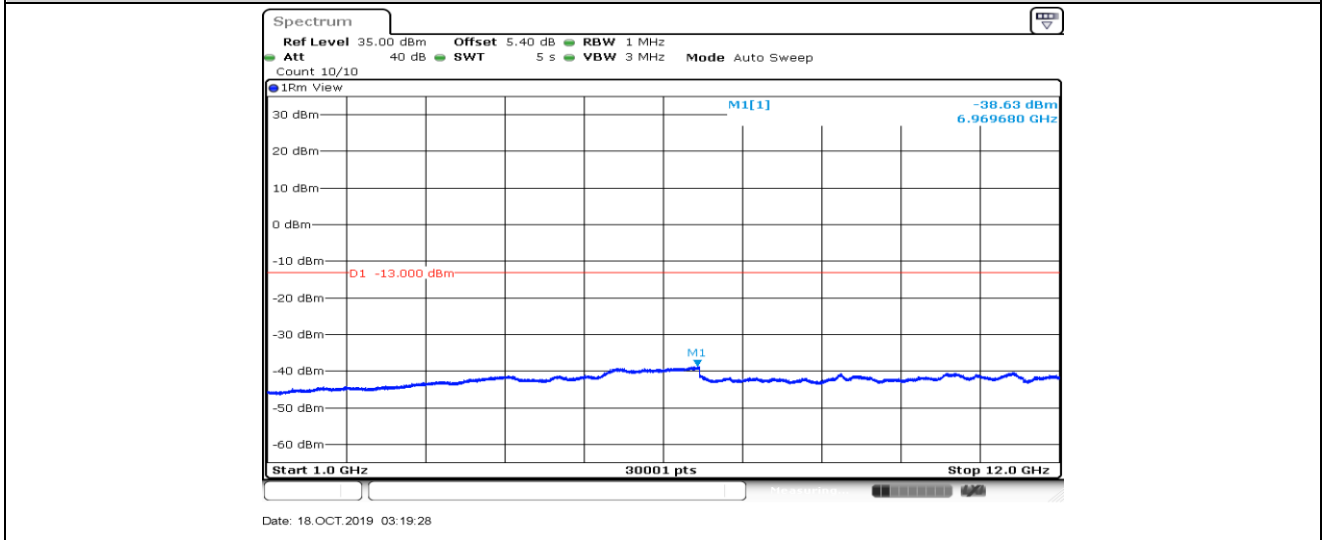
### 6.1. Test Plots



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**Band71-20MHz-QPSK-133322-1RB#0-Range2:1000~12000MHz**

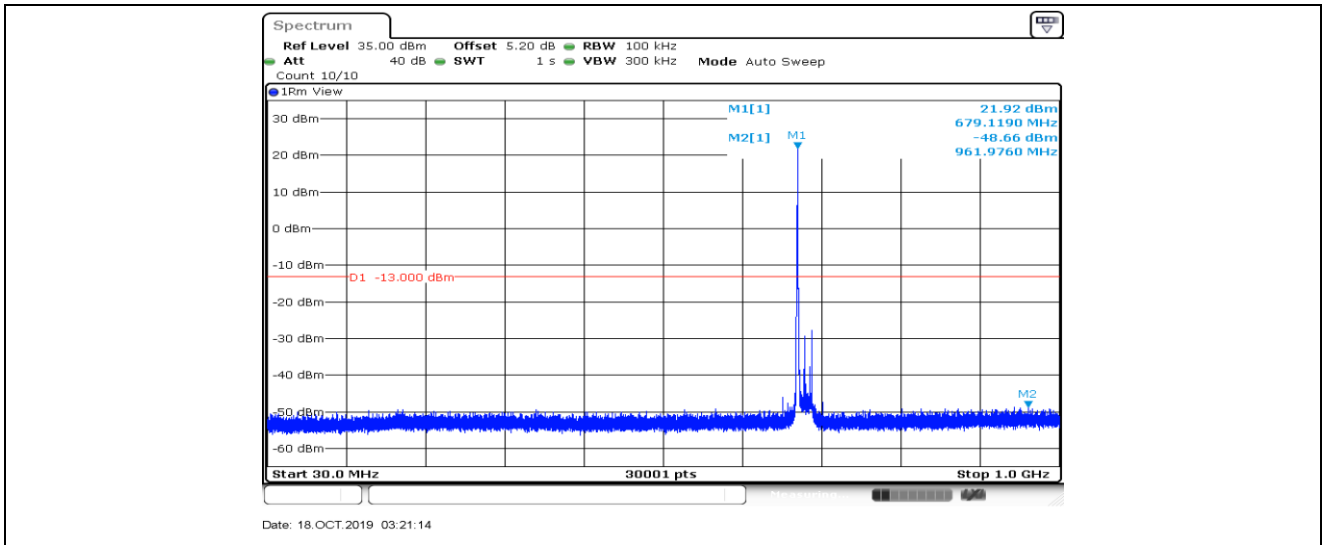


**Band71-20MHz-QPSK-133372-1RB#0-Range1:30~1000MHz**

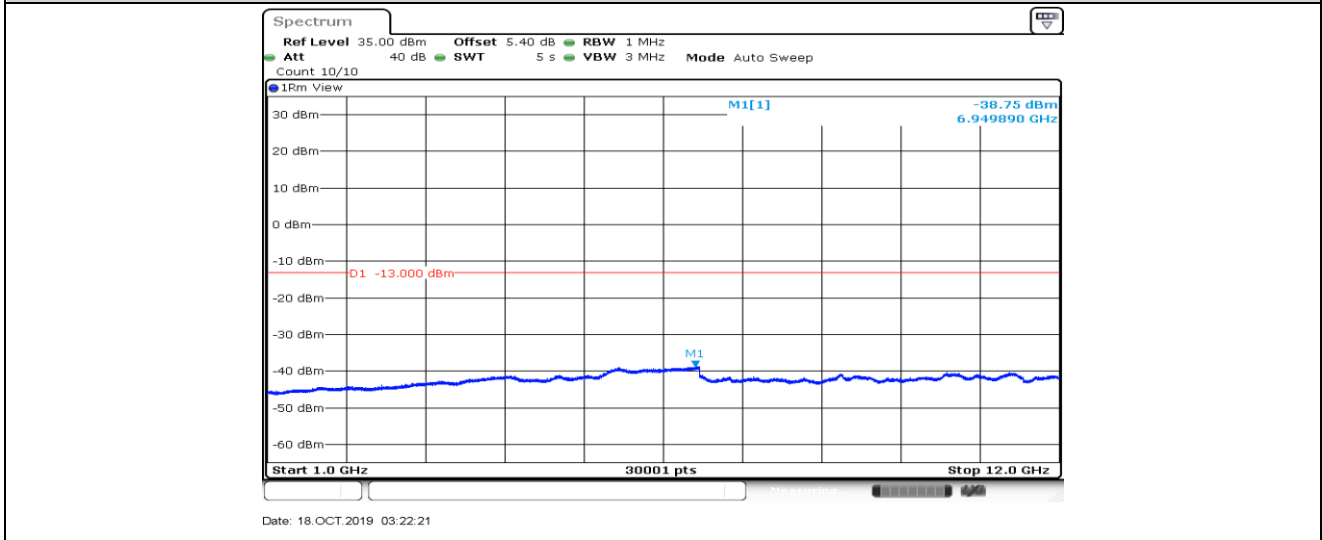


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**Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~12000MHz**

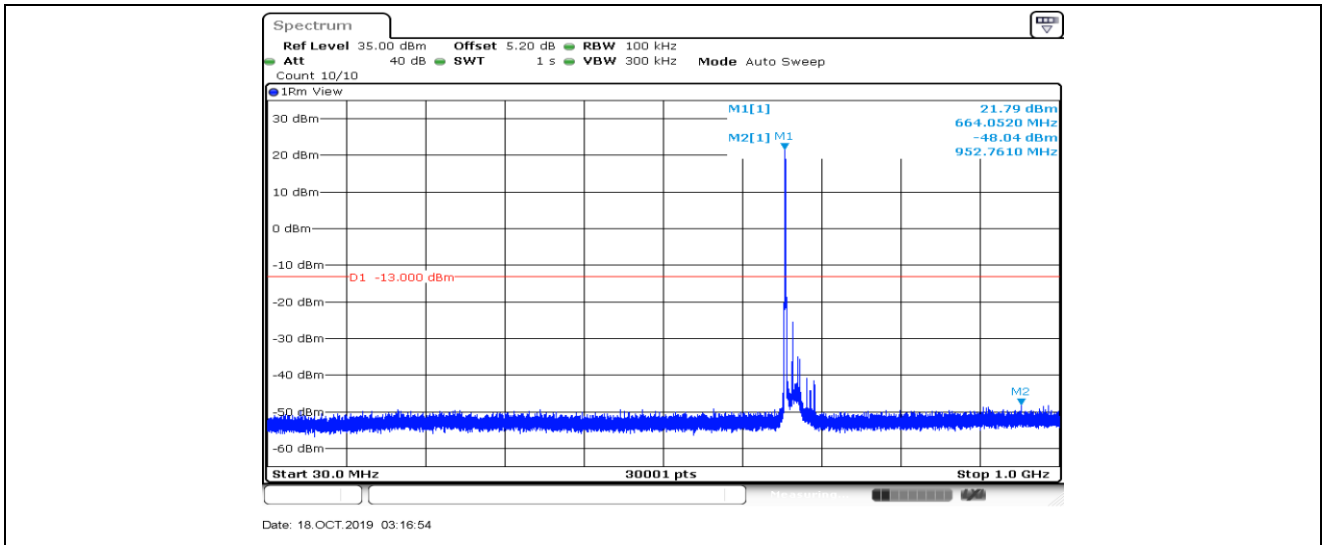


**Band71-20MHz-16QAM-133222-1RB#0-Range1:30~1000MHz**

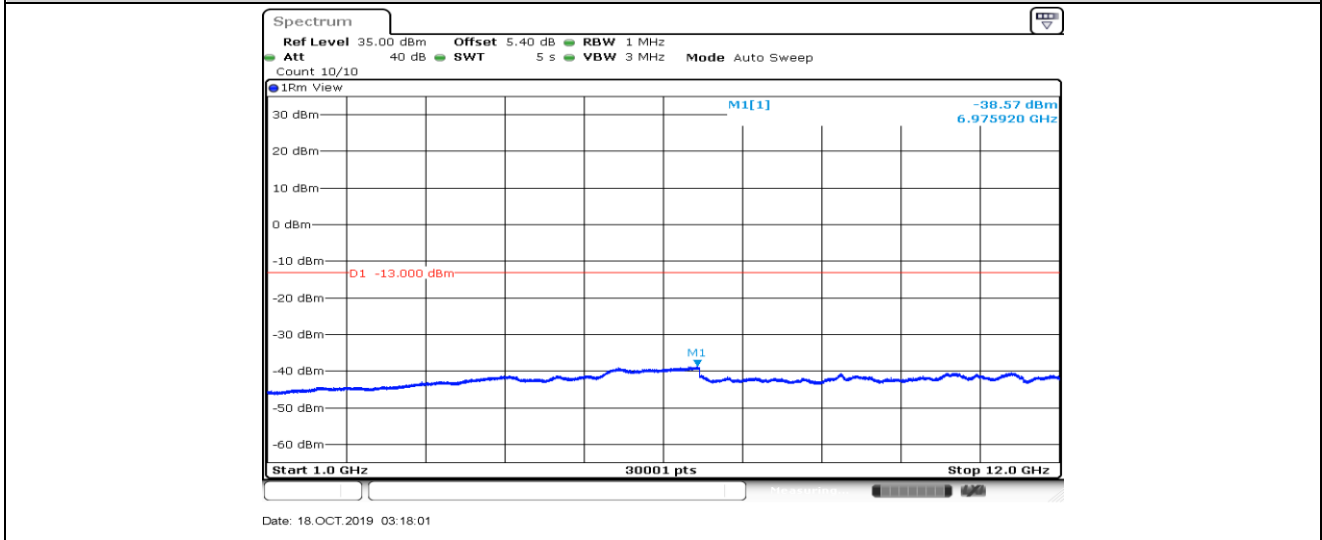


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**Band71-20MHz-16QAM-133222-1RB#0-Range2:1000~12000MHz**

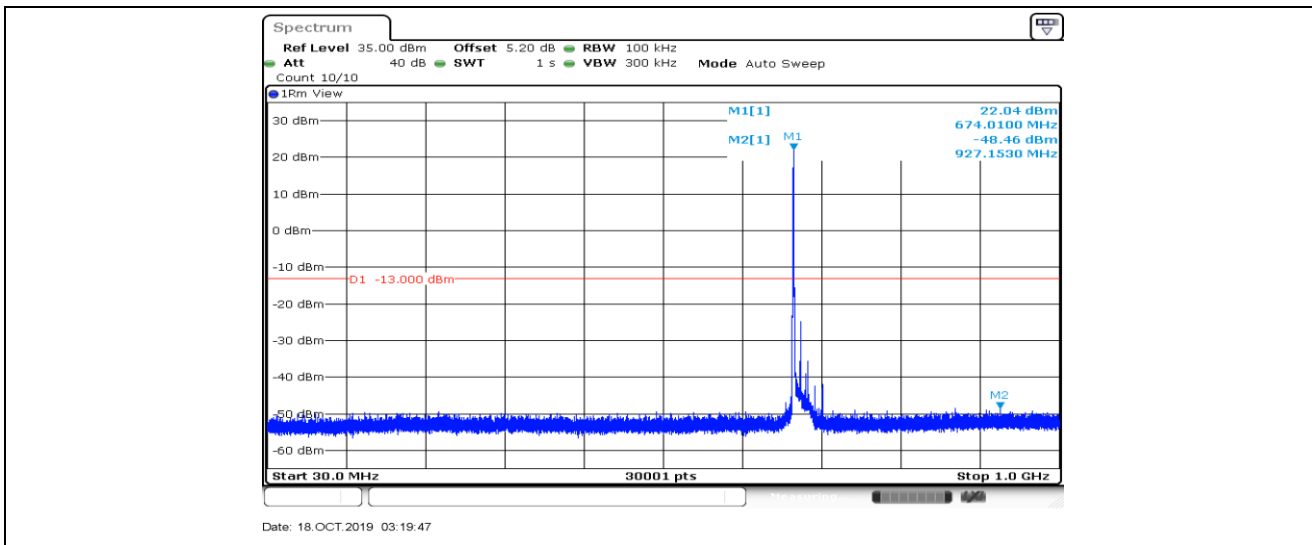


**Band71-20MHz-16QAM-133322-1RB#0-Range1:30~1000MHz**

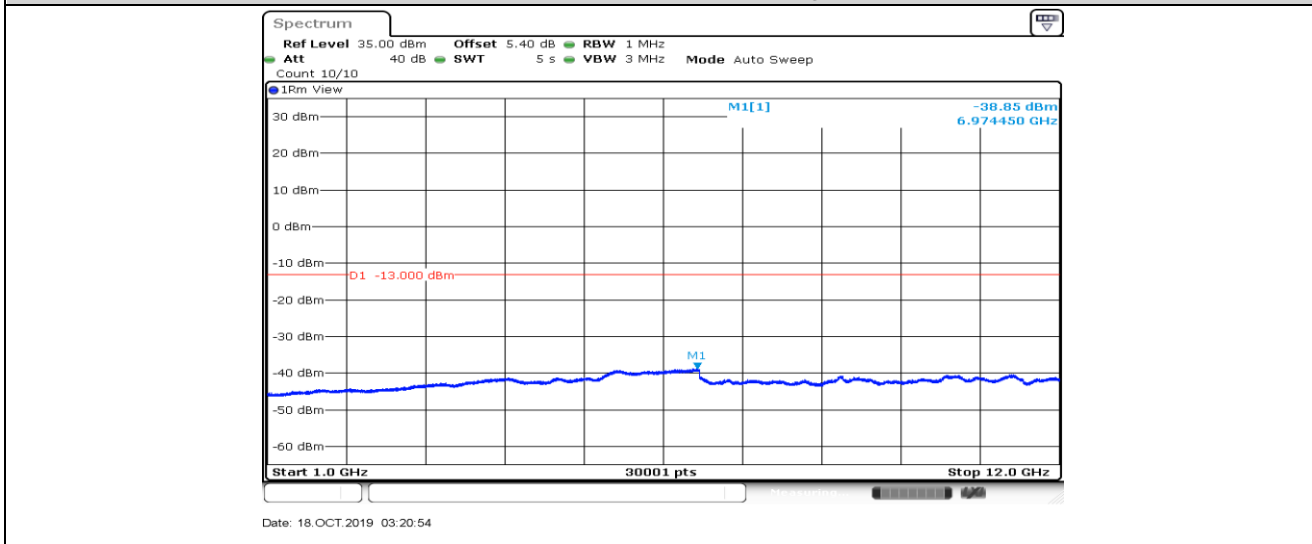


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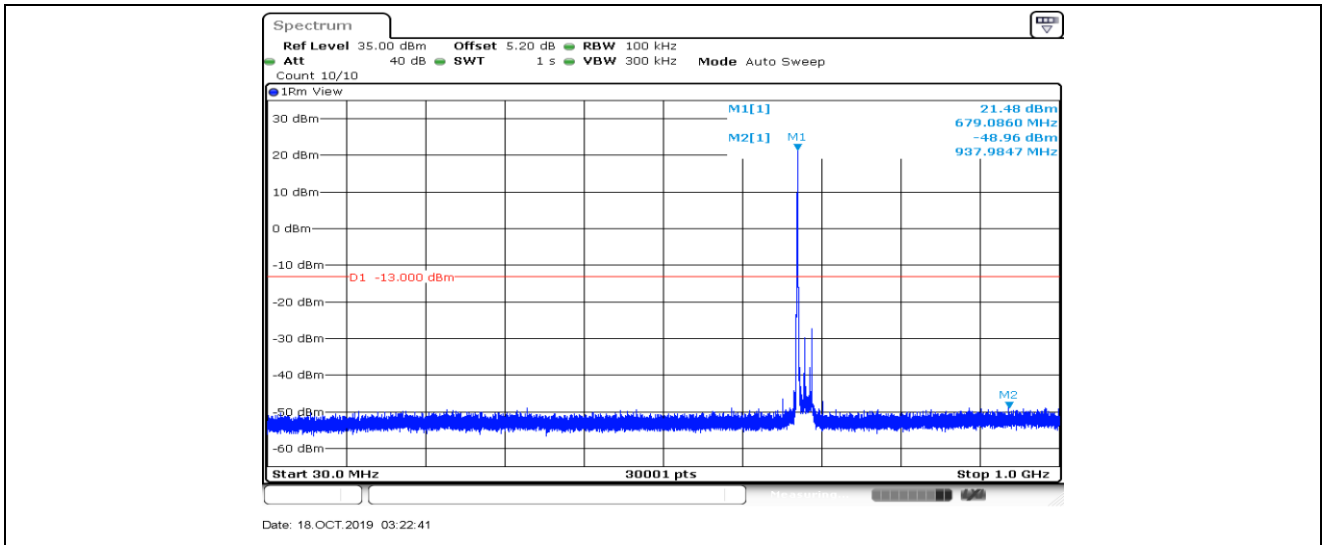
**Band71-20MHz-16QAM-133322-1RB#0-Range2:1000~12000MHz**



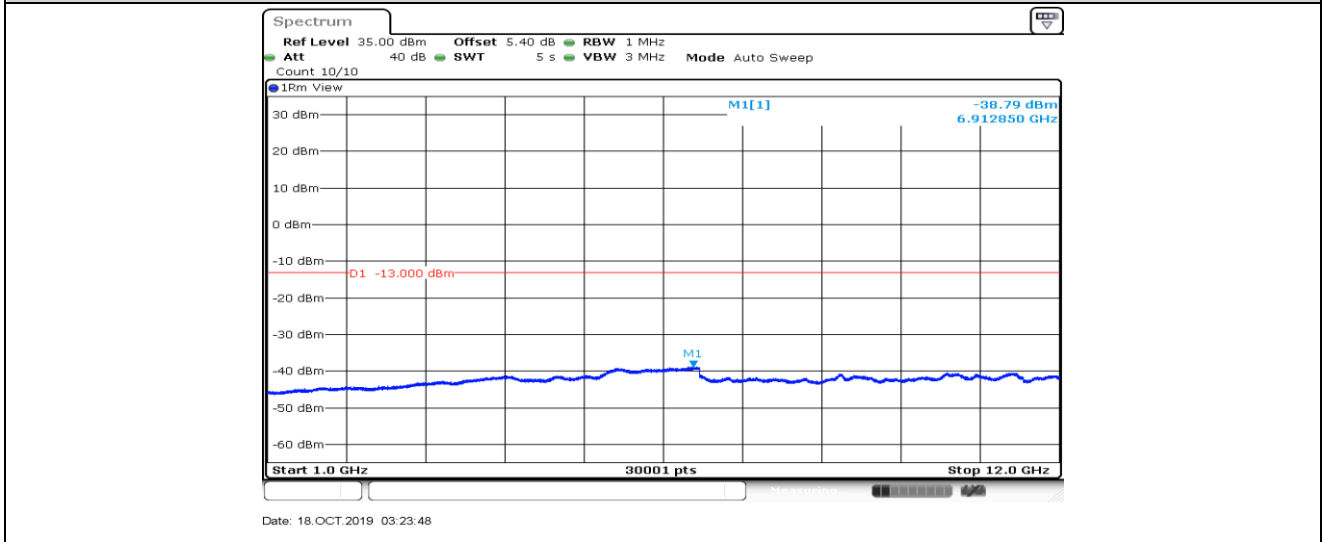
**Band71-20MHz-16QAM-133372-1RB#0-Range1:30~1000MHz**



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**Band71-20MHz-16QAM-133372-1RB#0-Range2:1000~12000MHz**



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Mode =LTE/TM1 20MHz

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.2116	-64.04	-13.00	51.04	Vertical
1879.7760	-56.37	-13.00	43.37	Vertical
2593.1186	-45.62	-13.00	32.62	Vertical
5848.3139	-47.51	-13.00	34.51	Vertical
14699.8680	-32.98	-13.00	19.98	Vertical
17995.1998	-22.31	-13.00	9.31	Vertical
43.2897	-64.12	-13.00	51.12	Horizontal
243.3622	-67.75	-13.00	54.75	Horizontal
1343.2687	-60.21	-13.00	47.21	Horizontal
1880.1760	-52.56	-13.00	39.56	Horizontal
2583.1166	-41.22	-13.00	28.22	Horizontal
17986.1994	-27.10	-13.00	14.10	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
113.4727	-64.12	-13.00	51.12	Vertical
999.4180	-56.24	-13.00	43.24	Vertical
1778.5557	-58.07	-13.00	45.07	Vertical
3127.2051	-51.28	-13.00	38.28	Vertical
10695.3078	-39.84	-13.00	26.84	Vertical
17988.5995	-22.22	-13.00	9.22	Vertical
45.4238	-63.25	-13.00	50.25	Horizontal
225.5618	-68.22	-13.00	55.22	Horizontal
1328.0656	-54.45	-13.00	41.45	Horizontal
3123.0049	-50.42	-13.00	37.42	Horizontal
5790.7116	-47.55	-13.00	34.55	Horizontal
16397.3359	-27.05	-13.00	14.05	Horizontal



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### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.8835	-64.74	-13.00	51.74	Vertical
999.6120	-56.54	-13.00	43.54	Vertical
1777.7556	-47.23	-13.00	34.23	Vertical
2466.6933	-50.95	-13.00	37.95	Vertical
2579.5159	-48.34	-13.00	35.34	Vertical
17989.7996	-22.25	-13.00	9.25	Vertical
44.6962	-63.74	-13.00	50.74	Horizontal
233.1767	-66.83	-13.00	53.83	Horizontal
1778.1556	-56.84	-13.00	43.84	Horizontal
3126.0050	-50.28	-13.00	37.28	Horizontal
9298.4519	-42.98	-13.00	29.98	Horizontal
16395.5358	-26.63	-13.00	13.63	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	-6.20	-0.009212	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VN	NT	-5.30	-0.007875	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	VH	NT	-3.10	-0.004606	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	-8.40	-0.012299	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-7.70	-0.011274	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-10.80	-0.015813	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VL	NT	-11.50	-0.016715	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VN	NT	-7.00	-0.010174	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	VH	NT	-8.90	-0.012936	±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	-1.10	-0.001634	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	VH	NT	-9.10	-0.013522	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VL	NT	-4.20	-0.006149	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VN	NT	-3.40	-0.004978	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	VH	NT	-3.10	-0.004539	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VL	NT	-11.40	-0.016570	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VN	NT	-4.10	-0.005959	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	VH	NT	-7.60	-0.011047	±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	-6.70	-0.009955	±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	0	-4.00	-0.005944	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	10	-9.90	-0.014710	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	20	-6.00	-0.008915	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	30	-7.30	-0.010847	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	40	-4.50	-0.006686	±2.5	PASS
Band71	20MHz	QPSK	133222	100RB#0	NV	50	-8.40	-0.012481	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-13.20	-0.019327	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-6.30	-0.009224	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-9.60	-0.014056	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-7.40	-0.010835	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-13.20	-0.019327	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-8.20	-0.012006	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-10.60	-0.015520	±2.5	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-11.20	-0.016398	±2.5	PASS



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Band71	20MHz	QPSK	133372	100RB#0	NV	-30	-4.80	-0.006977	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	-20	-11.00	-0.015988	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	0	-13.20	-0.019186	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	10	-4.50	-0.006541	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	20	-10.20	-0.014826	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	30	-4.90	-0.007122	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	40	-10.20	-0.014826	±2.5	PASS
Band71	20MHz	QPSK	133372	100RB#0	NV	50	-6.40	-0.009302	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-30	-8.50	-0.012630	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	-20	-5.10	-0.007578	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	0	-6.70	-0.009955	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	10	-7.50	-0.011144	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	20	-7.10	-0.010550	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	30	-11.40	-0.016939	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	40	-7.10	-0.010550	±2.5	PASS
Band71	20MHz	16QAM	133222	100RB#0	NV	50	-5.20	-0.007727	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-30	-8.00	-0.011713	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	-20	-7.00	-0.010249	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	0	-11.00	-0.016105	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	10	-6.10	-0.008931	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	20	-3.70	-0.005417	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	30	-5.40	-0.007906	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	40	-10.70	-0.015666	±2.5	PASS
Band71	20MHz	16QAM	133322	100RB#0	NV	50	-11.10	-0.016252	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-30	-5.90	-0.008576	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	-20	-13.40	-0.019477	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	0	-9.70	-0.014099	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	10	-4.50	-0.006541	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	20	-9.80	-0.014244	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	30	-6.10	-0.008866	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	40	-5.40	-0.007849	±2.5	PASS
Band71	20MHz	16QAM	133372	100RB#0	NV	50	-8.90	-0.012936	±2.5	PASS

The End



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