

Appendix B.6

E-UTRA Band 71

1. Main Test Instruments

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2018/10/20	2019/10/19
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019/6/12	2020/6/11
Wideband Radio Communication Tester	Anritsu	MT8821C	6201462742	2019/4/3	2020/4/3
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2019/1/13	2020/1/12
RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/11/2	2019/11/1
Signal Analyzer	Rohde & Schwarz	FSV	W005-02	2019/3/2	2020/3/1
Coaxial Cable	SGS	N/A	SEM031-01	2019/6/12	2020/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/11/2	2019/11/1
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/11/2	2019/11/1
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/2	2019/11/1
Wideband Radio Communication Tester	Anritsu	MT8821C	6201462742	2019/3/2	2020/3/1
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	W005-02	2018/11/2	2019/11/1

2. Measurement Uncertainty

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item	Extended Uncertainty	Data
Transmit Output Power Data	Power [dBm]	$U = \pm 0.37 \text{ dB}$
Bandwidth	Magnitude [%]	$U = \pm 0.2\%$
Band Edge Compliance	Disturbance Power [dBm]	$U = \pm 2.0 \text{ dB}$
Spurious Emissions, Conducted	Disturbance Power [dBm]	$U = \pm 2.0 \text{ dB}$
Frequency Stability	Frequency Accuracy [ppm]	$U = \pm 0.24 \text{ ppm}$

3. Effective (Isotropic) Radiated Power

3.1. 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
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
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
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
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,

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

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

4. Peak-to-Average Ratio(CCDF)

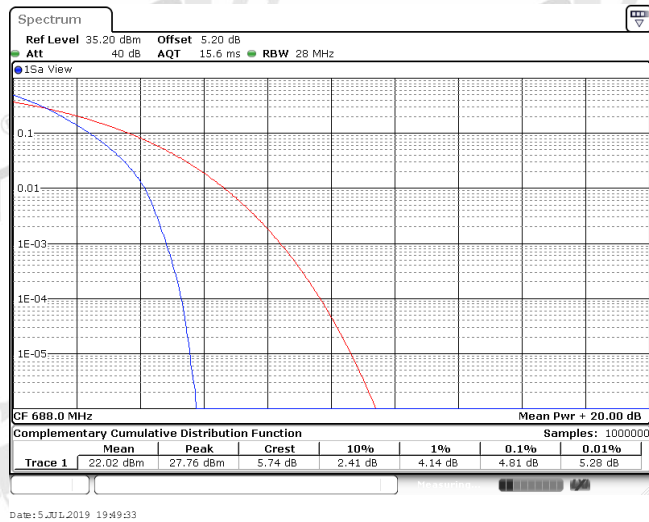
4.1. Test Result

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

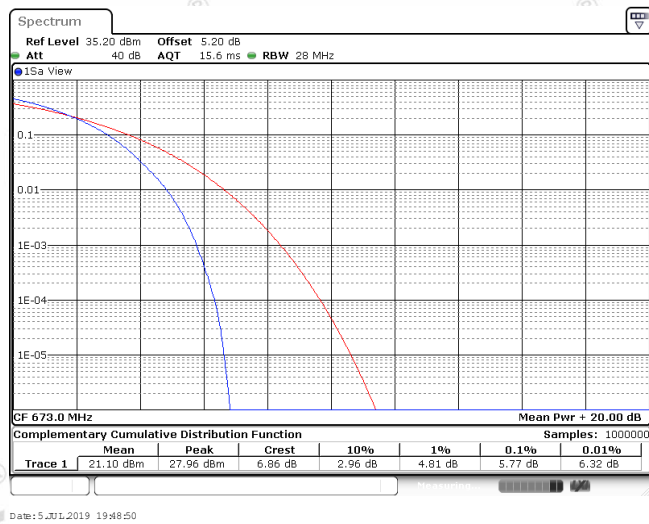
4.2. Test Plots



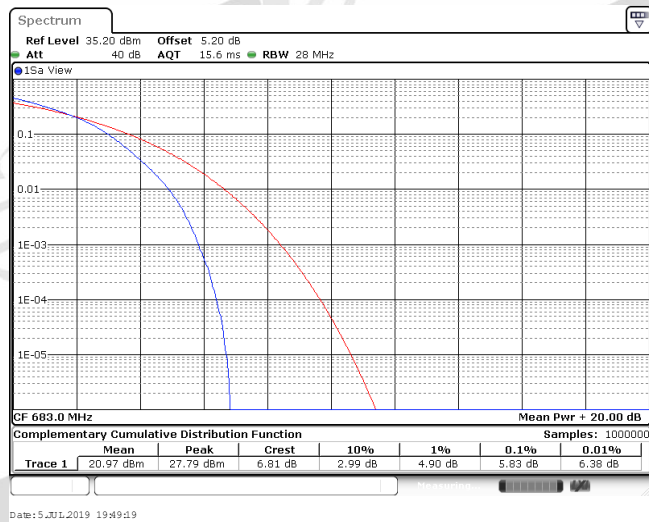
Band71_20MHz_QPSK_133372_100RB#0

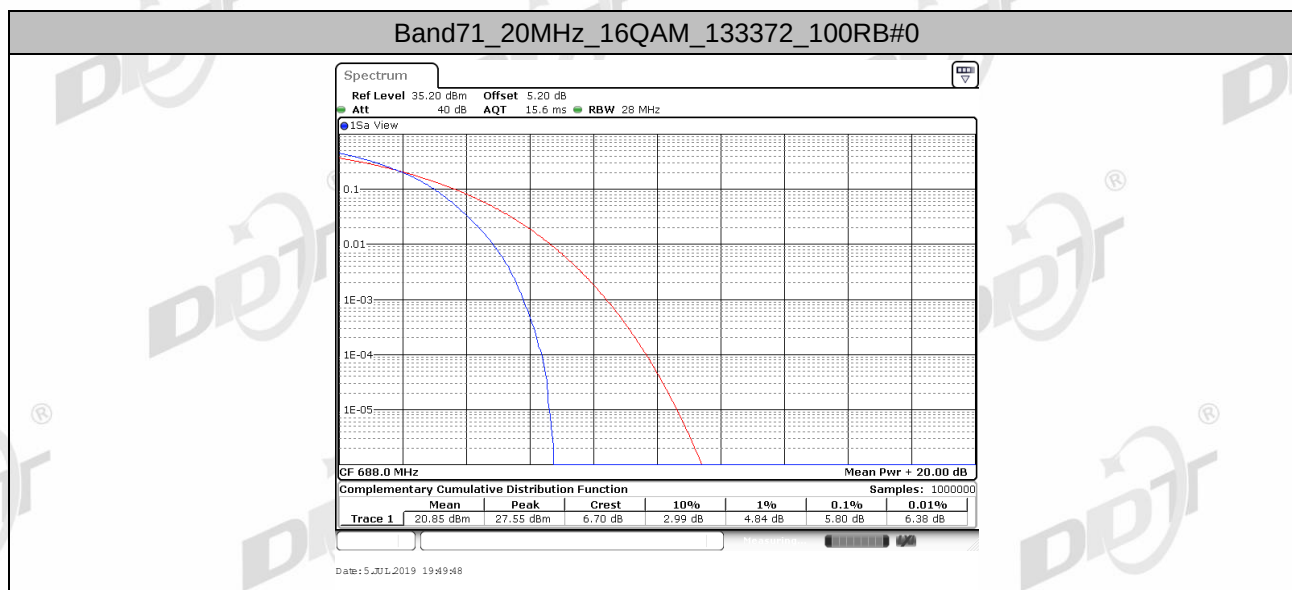


Band71_20MHz_16QAM_133222_100RB#0



Band71_20MHz_16QAM_133322_100RB#0



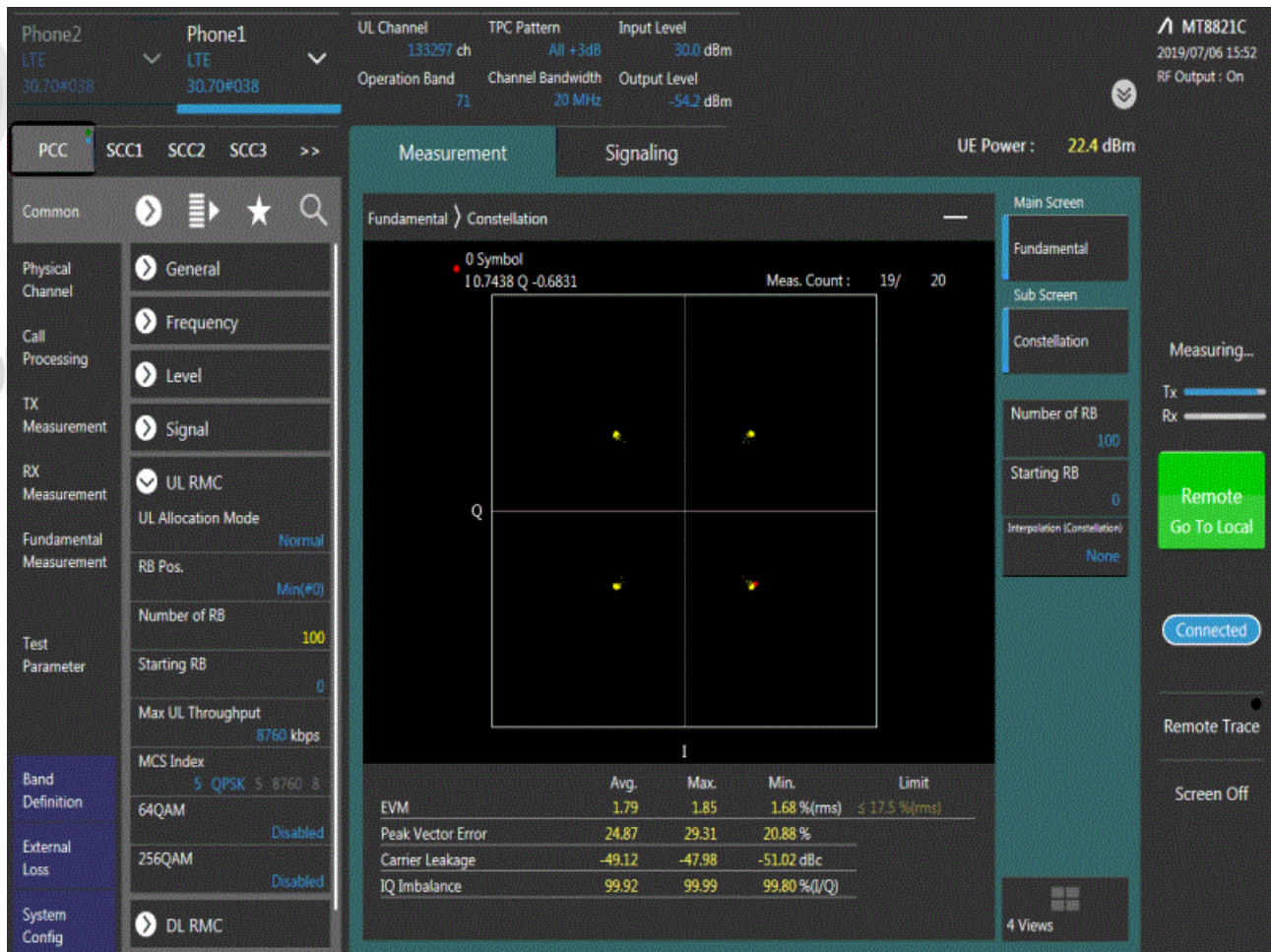


5. Modulation Characteristics

5.1. Test BAND = LTE Band 71

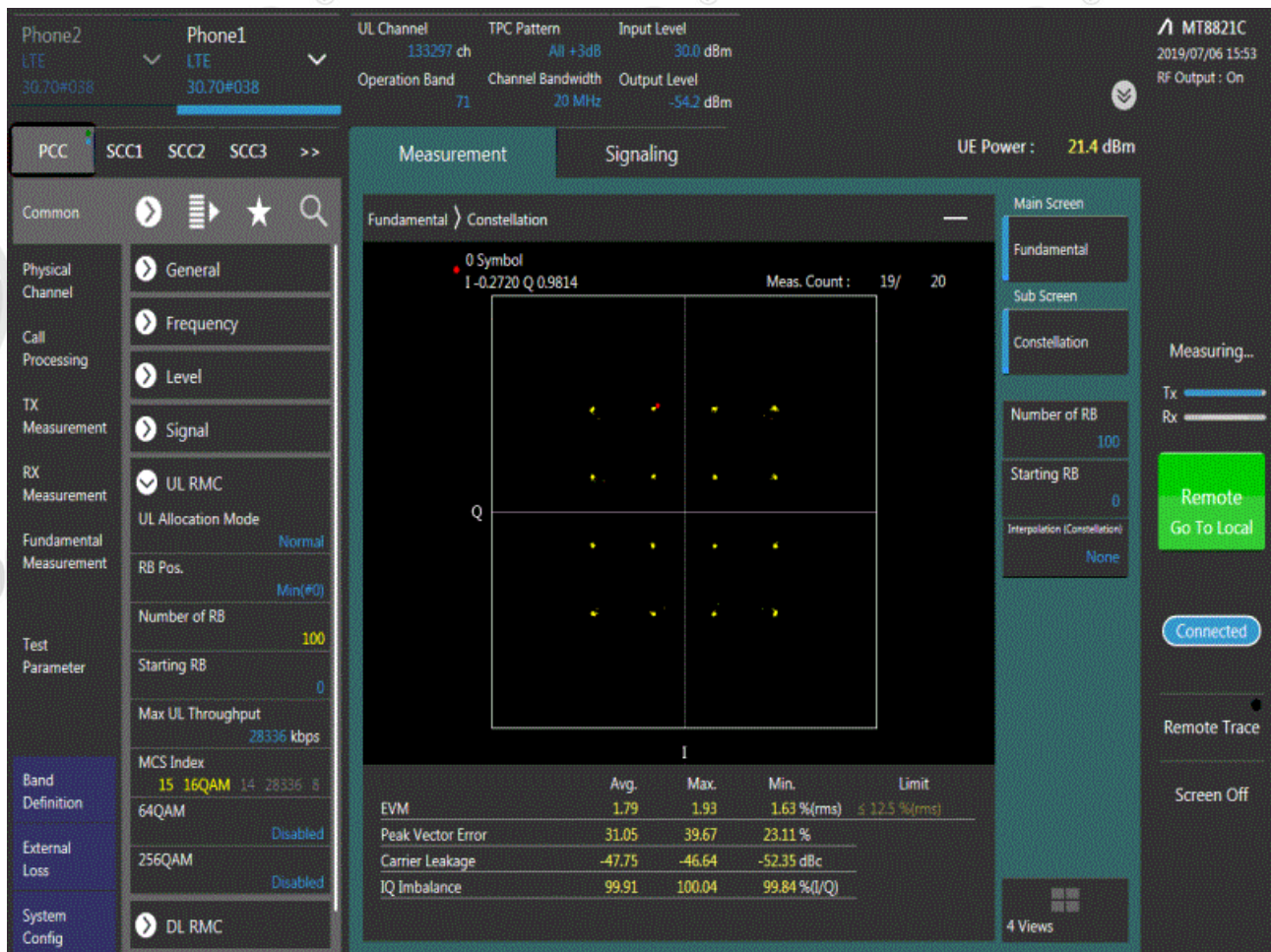
5.2. Test Mode = LTE /TM1 20MHz

5.2.1. Test Channel = MCH



5.3. Test Mode = LTE /TM2 20MHz

5.3.1. Test Channel = MCH



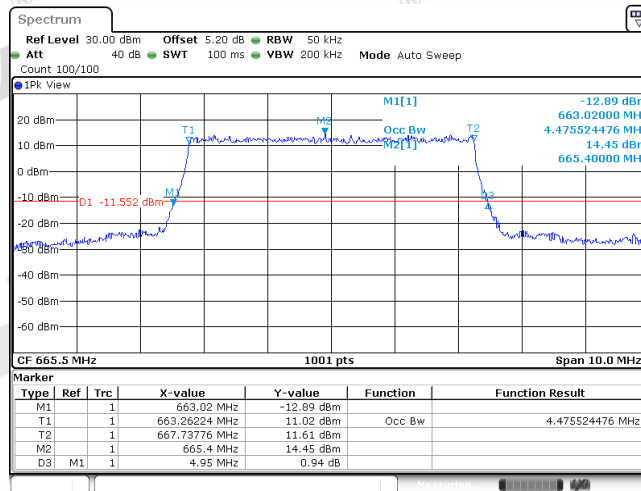
6. 26dB Bandwidth and Occupied Bandwidth

6.1. 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

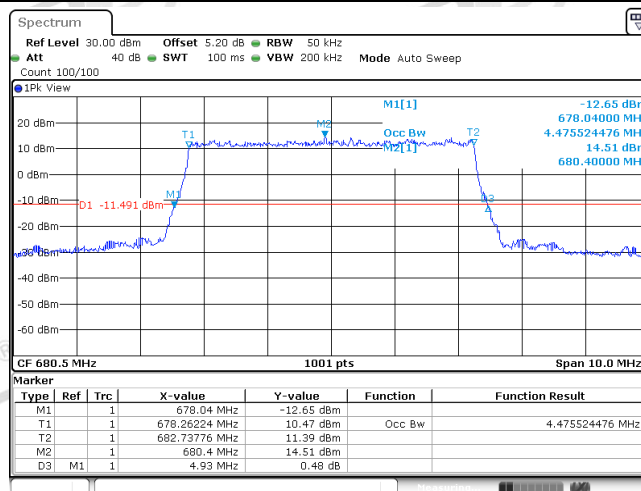
6.2. Test Plots

Band71_5MHz_QPSK_133147_25RB#0



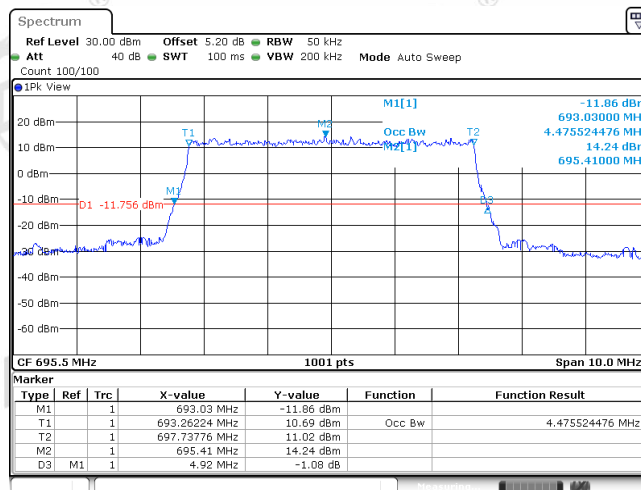
Date: 5 JUL 2019 19:19:26

Band71_5MHz_QPSK_133297_25RB#0



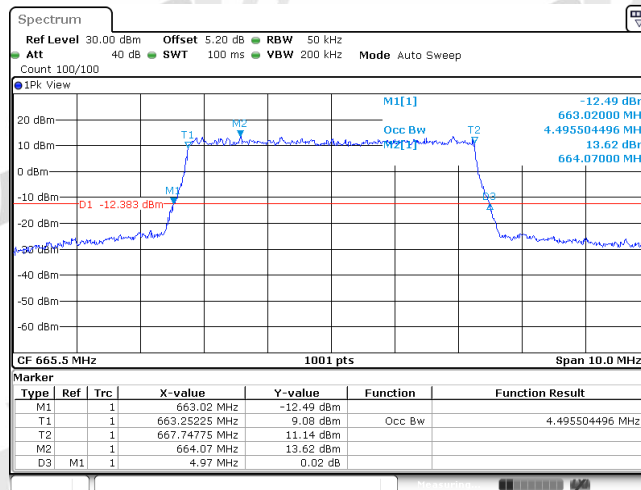
Date: 5 JUL 2019 19:20:12

Band71_5MHz_QPSK_133447_25RB#0



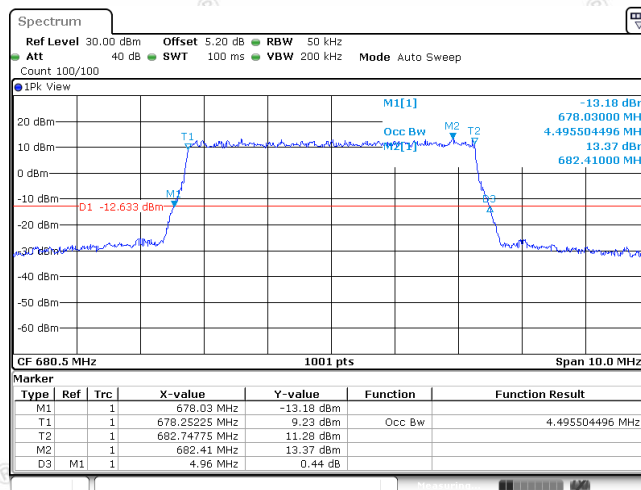
Date: 5 JUL 2019 19:20:57

Band71_5MHz_16QAM_133147_25RB#0



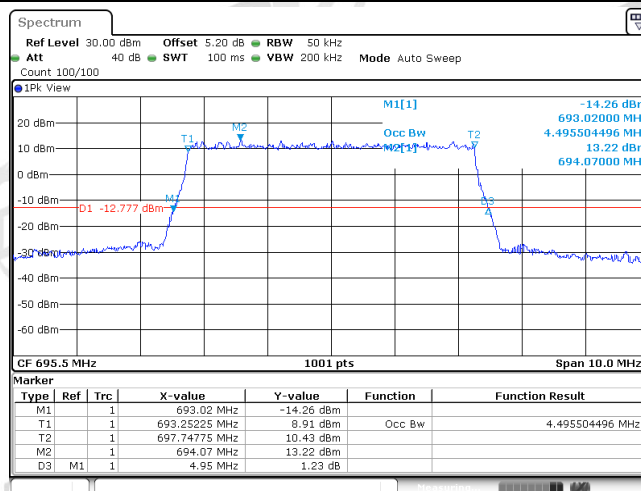
Date: 5 JUL 2019 19:19:49

Band71_5MHz_16QAM_133297_25RB#0



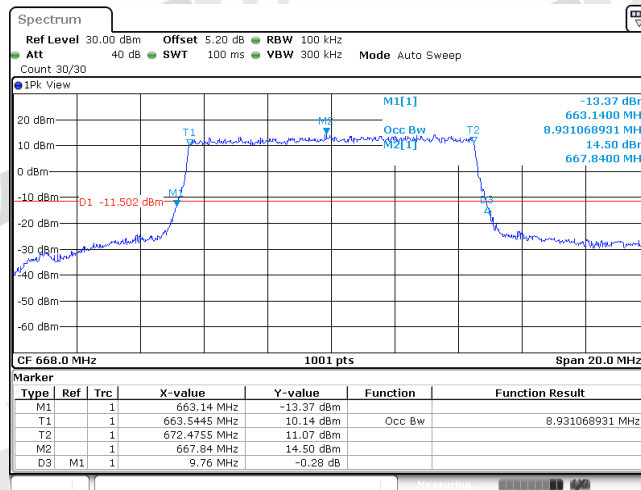
Date: 5 JUL 2019 19:20:34

Band71_5MHz_16QAM_133447_25RB#0



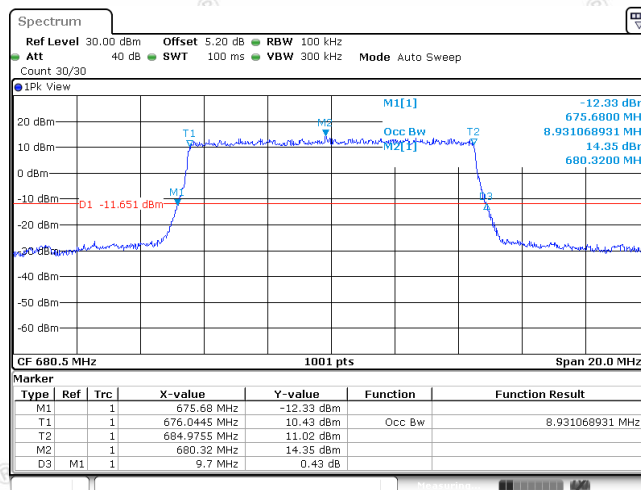
Date: 5 JUL 2019 19:21:20

Band71_10MHz_QPSK_133172_50RB#0



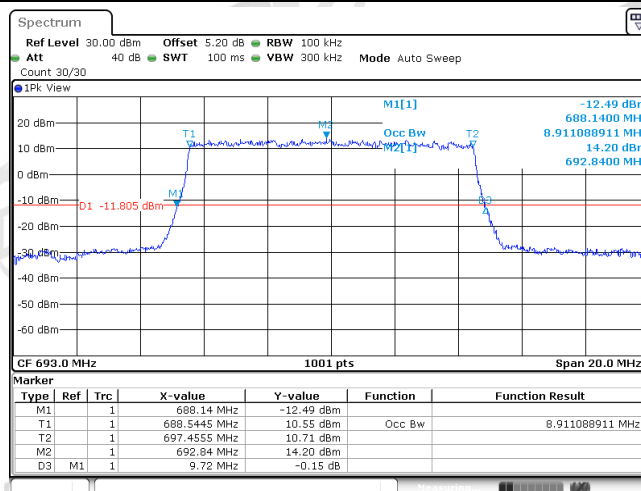
Date: 5 JUL 2019 19:21:41

Band71_10MHz_QPSK_133297_50RB#0



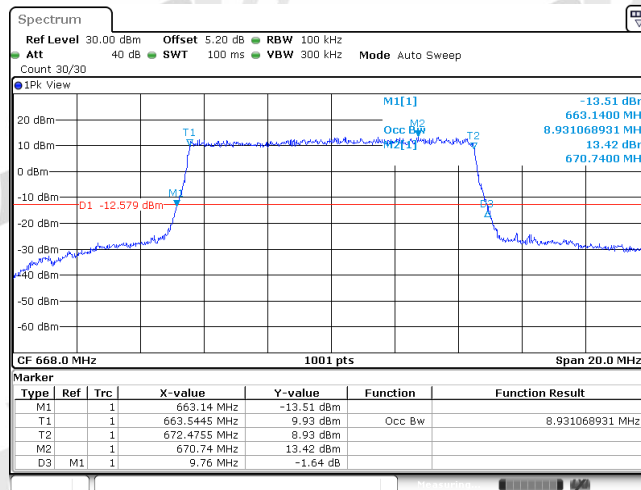
Date: 5 JUL 2019 19:22:12

Band71_10MHz_QPSK_133422_50RB#0



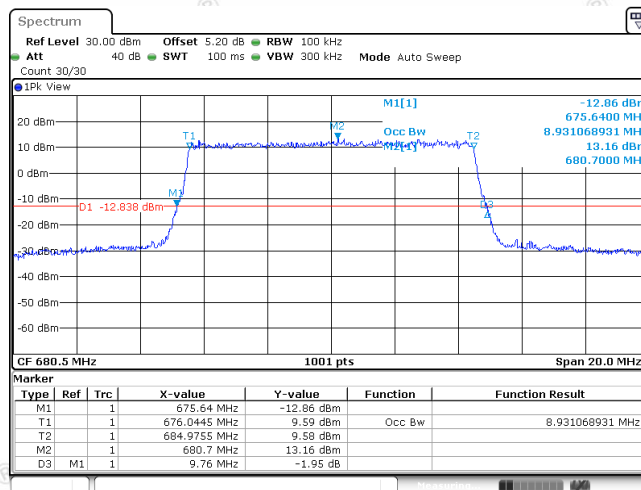
Date: 5 JUL 2019 19:22:44

Band71_10MHz_16QAM_133172_50RB#0



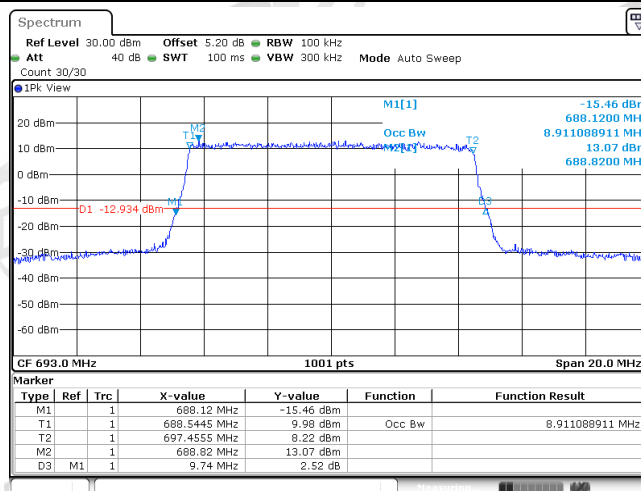
Date: 5 JUL 2019 19:21:56

Band71_10MHz_16QAM_133297_50RB#0



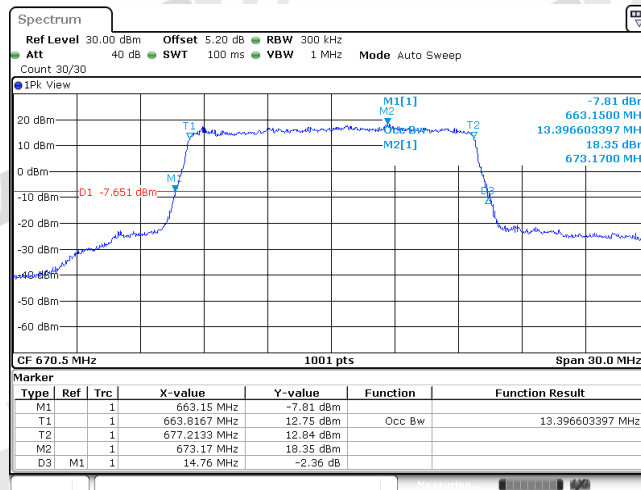
Date: 5 JUL 2019 19:22:28

Band71_10MHz_16QAM_133422_50RB#0



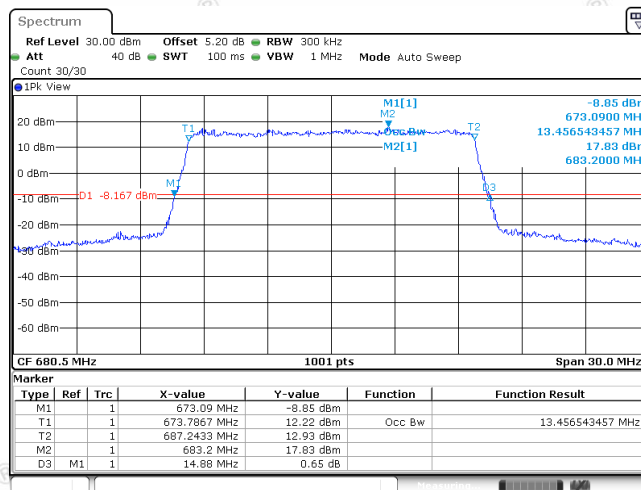
Date: 5 JUL 2019 19:22:59

Band71_15MHz_QPSK_133197_75RB#0



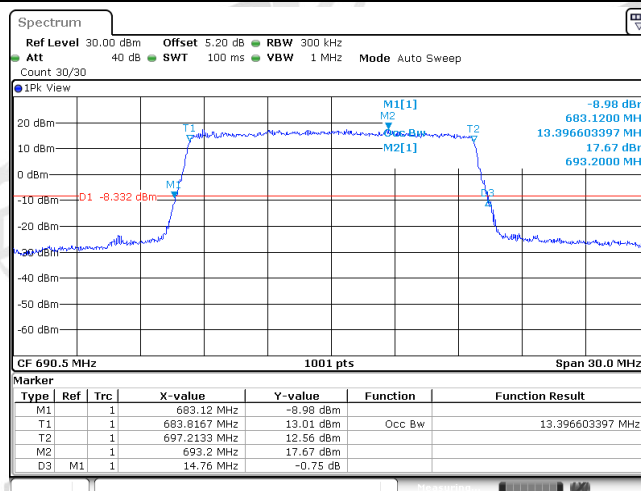
Date: 5 JUL 2019 19:23:20

Band71_15MHz_QPSK_133297_75RB#0



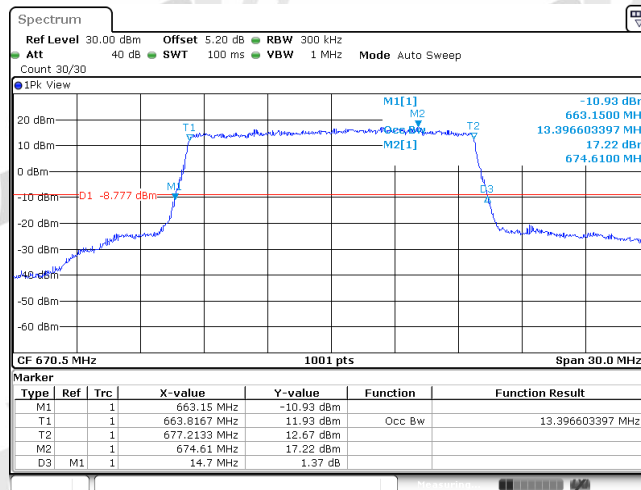
Date: 5 JUL 2019 19:23:51

Band71_15MHz_QPSK_133397_75RB#0



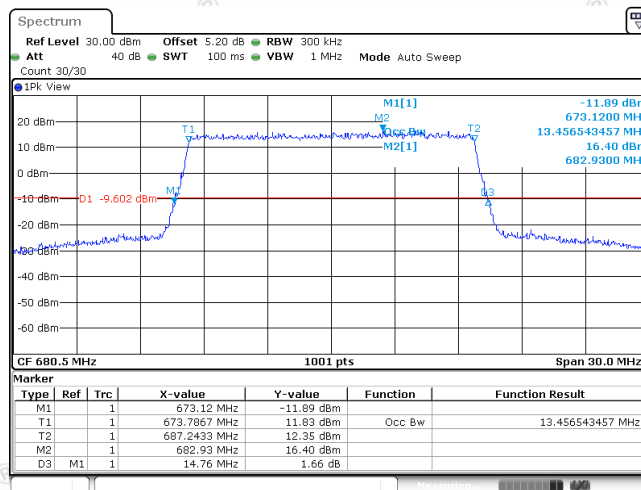
Date: 5 JUL 2019 19:24:23

Band71_15MHz_16QAM_133197_75RB#0



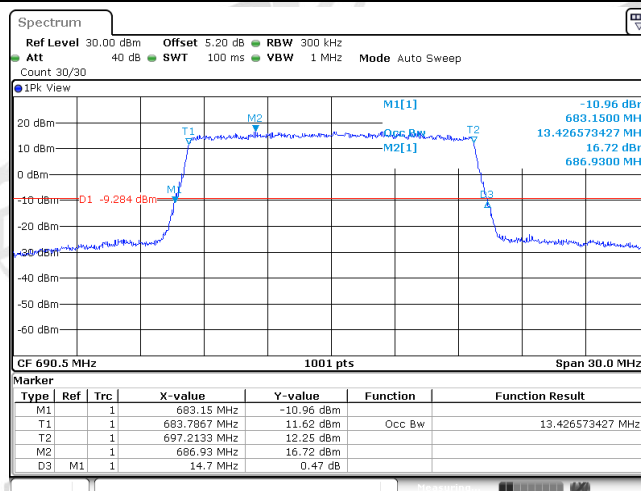
Date: 5 JUL 2019 19:23:35

Band71_15MHz_16QAM_133297_75RB#0



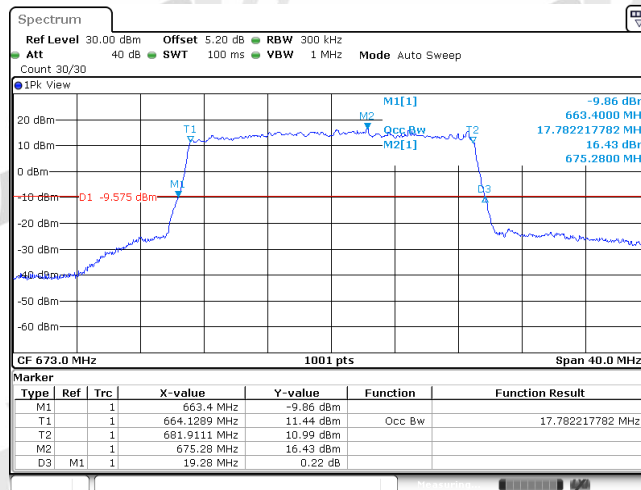
Date: 5 JUL 2019 19:24:07

Band71_15MHz_16QAM_133397_75RB#0



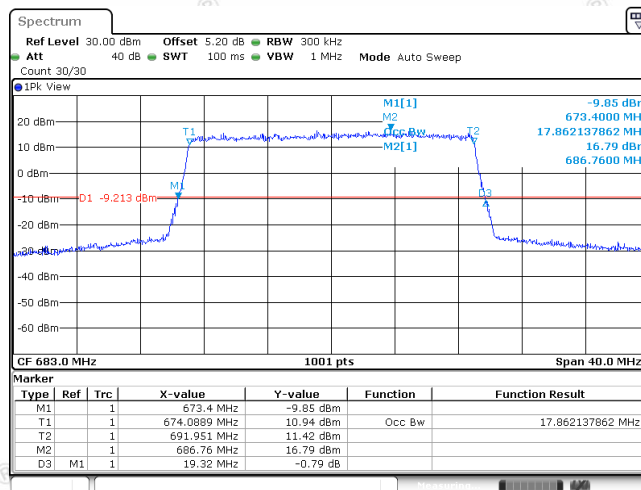
Date: 5 JUL 2019 19:24:38

Band71_20MHz_QPSK_133222_100RB#0



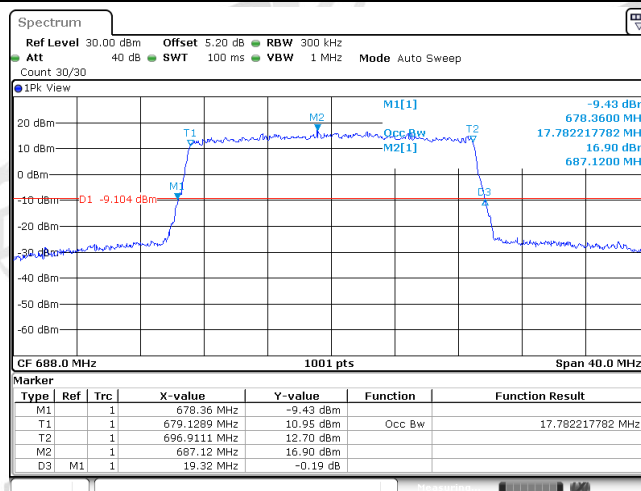
Date: 5 JUL 2019 19:24:59

Band71_20MHz_QPSK_133322_100RB#0



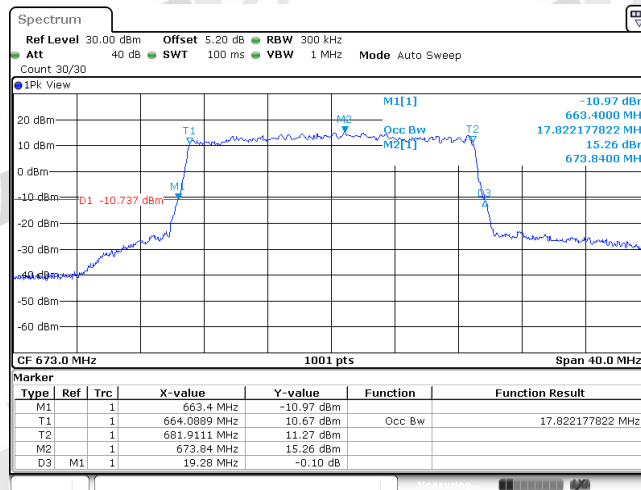
Date: 5 JUL 2019 19:25:30

Band71_20MHz_QPSK_133372_100RB#0



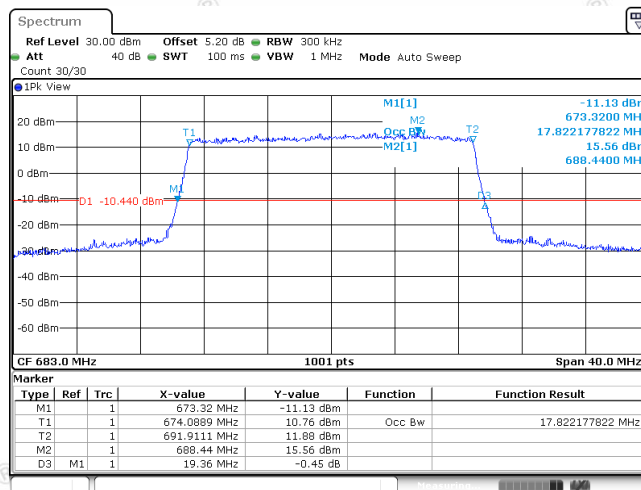
Date: 5 JUL 2019 19:26:02

Band71_20MHz_16QAM_133222_100RB#0



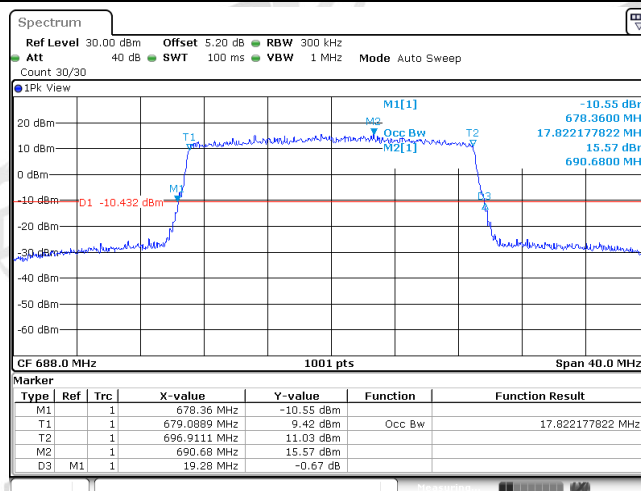
Date: 5 JUL 2019 19:25:14

Band71_20MHz_16QAM_133322_100RB#0



Date: 5 JUL 2019 19:25:46

Band71_20MHz_16QAM_133372_100RB#0



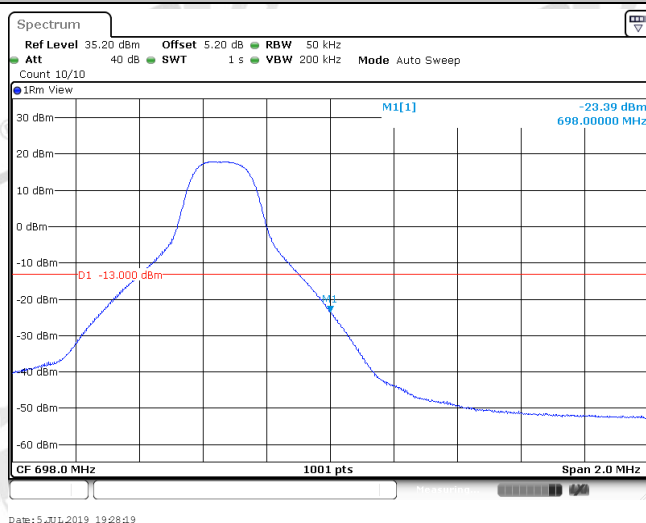
Date: 5 JUL 2019 19:26:18

7. Band Edge Compliance

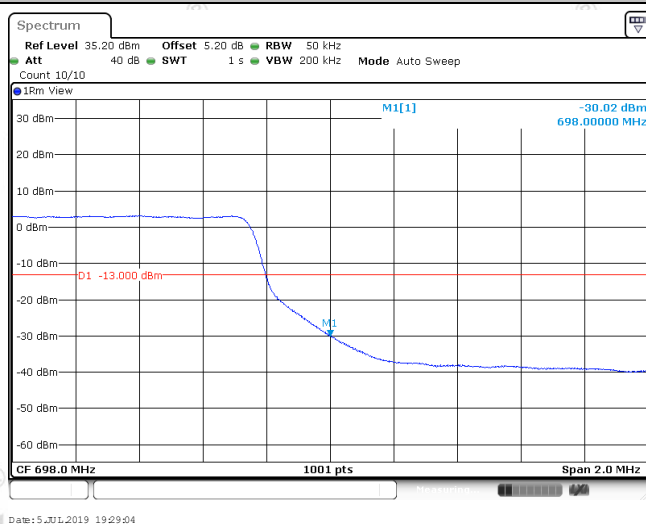
7.1. Test Plots



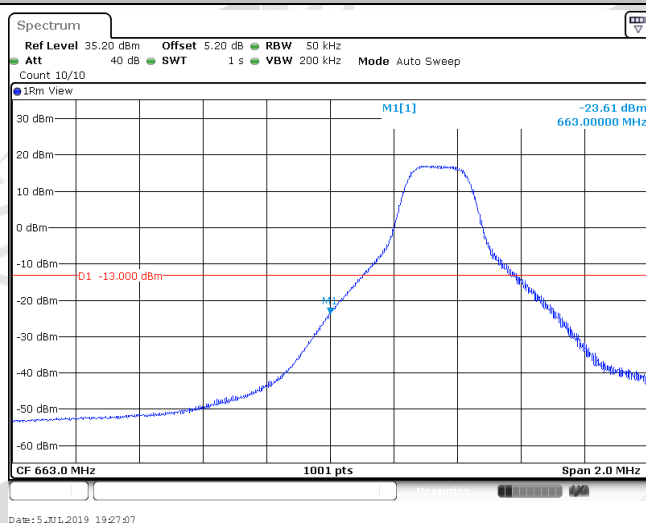
Band71_5MHz_QPSK_133447_1RB#24



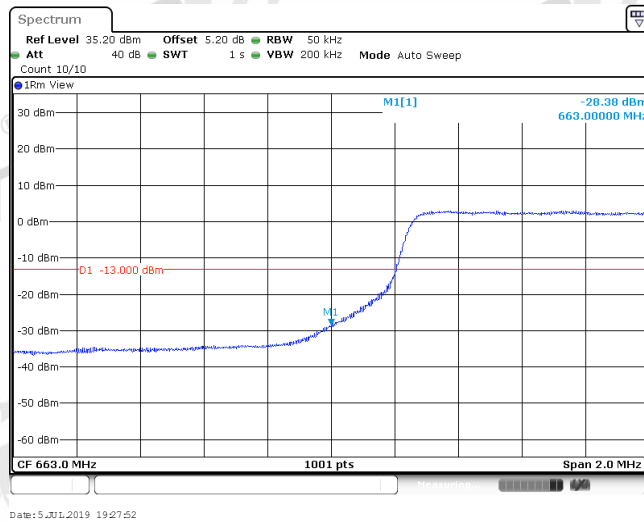
Band71_5MHz_QPSK_133447_25RB#0



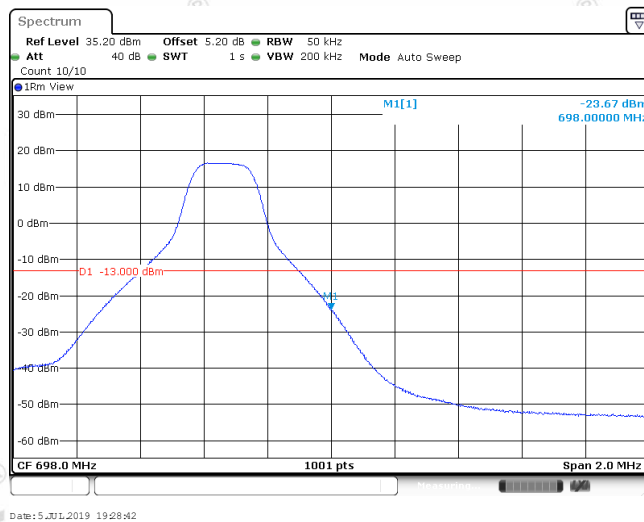
Band71_5MHz_16QAM_133147_1RB#0



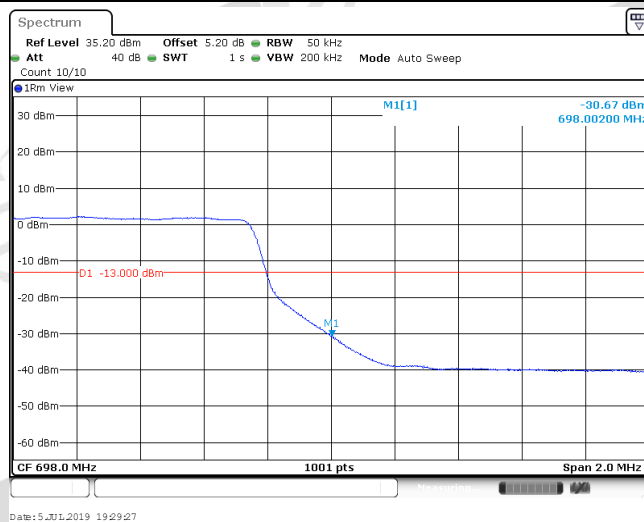
Band71_5MHz_16QAM_133147_25RB#0



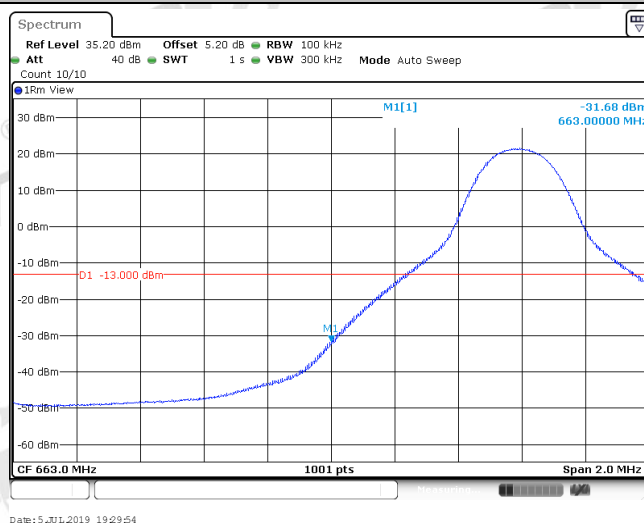
Band71_5MHz_16QAM_133447_1RB#24



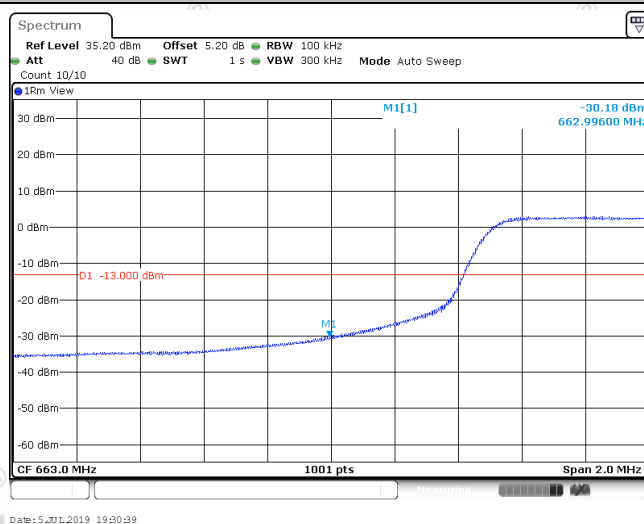
Band71_5MHz_16QAM_133447_25RB#0



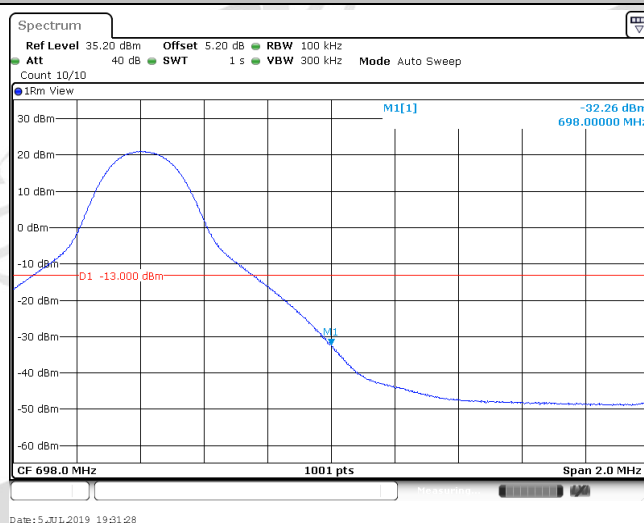
Band71_10MHz_QPSK_133172_1RB#0



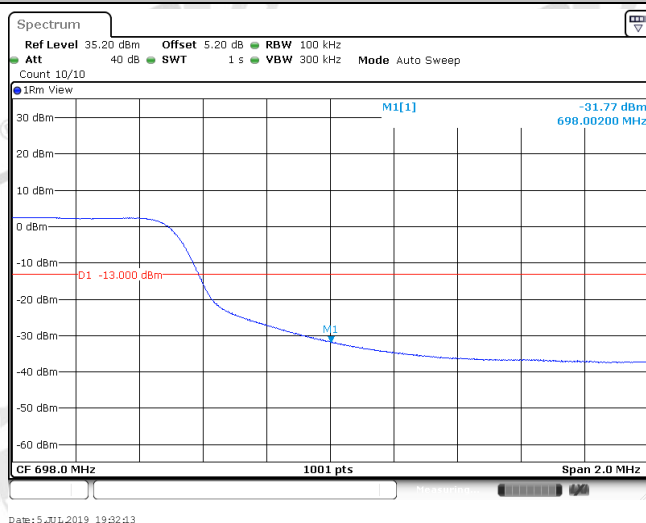
Band71_10MHz_QPSK_133172_50RB#0



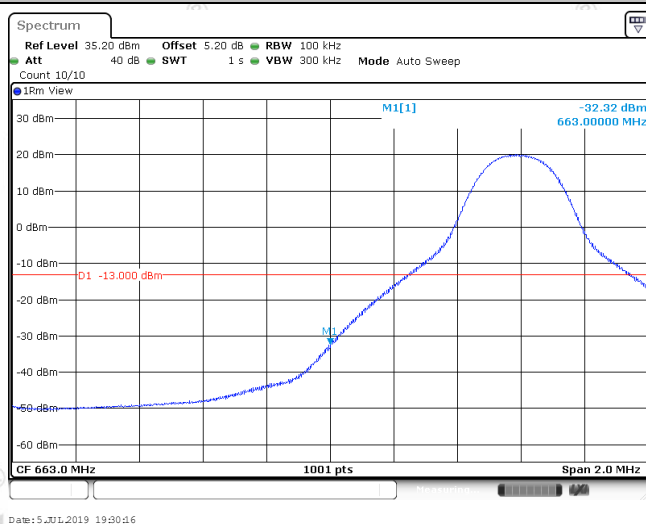
Band71_10MHz_QPSK_133422_1RB#49



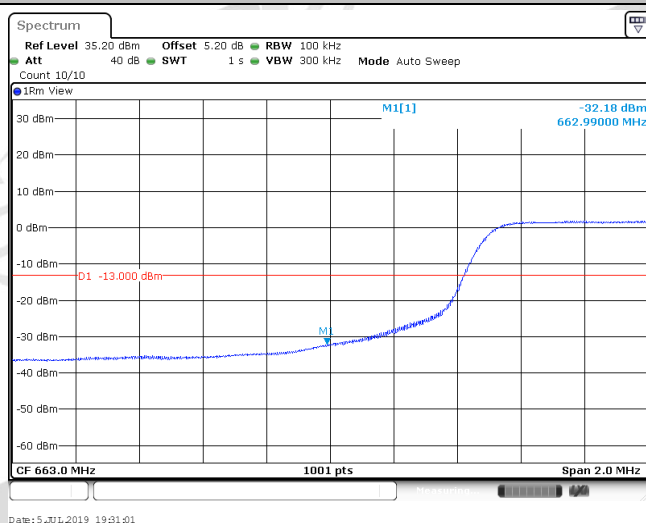
Band71_10MHz_QPSK_133422_50RB#0



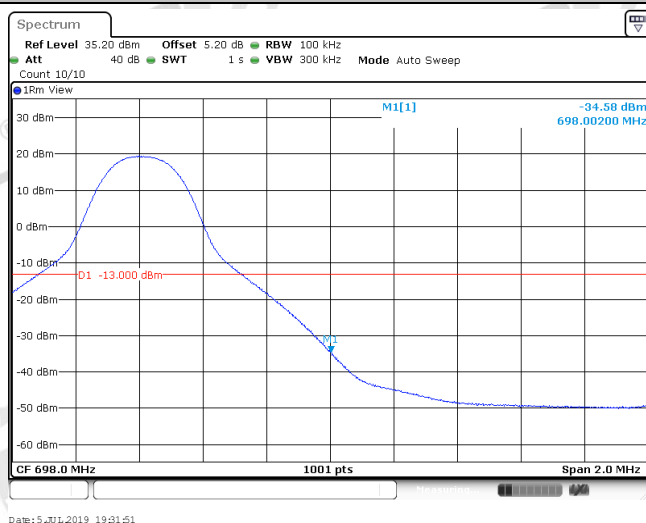
Band71_10MHz_16QAM_133172_1RB#0



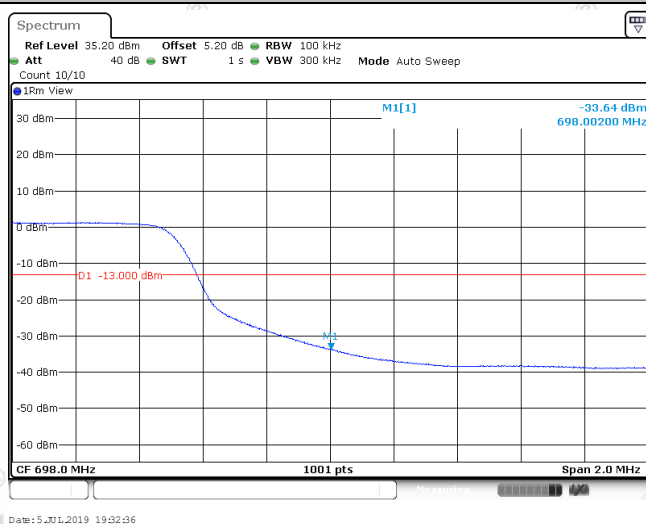
Band71_10MHz_16QAM_133172_50RB#0



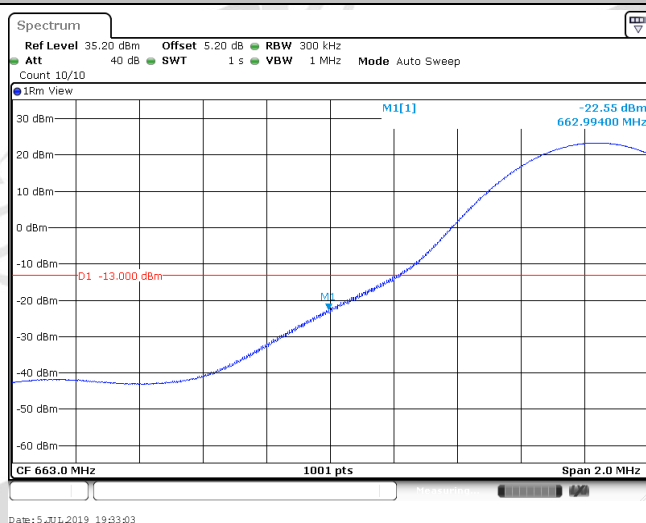
Band71_10MHz_16QAM_133422_1RB#49



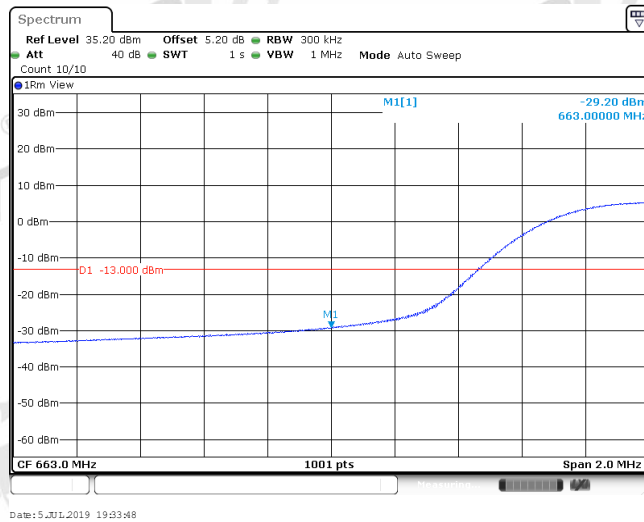
Band71_10MHz_16QAM_133422_50RB#0



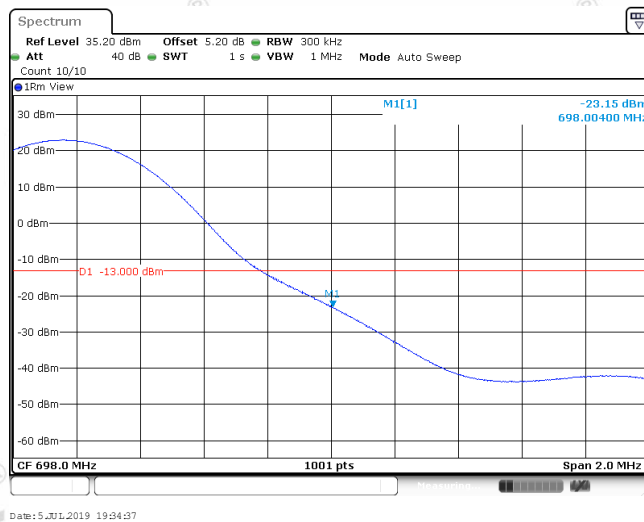
Band71_15MHz_QPSK_133197_1RB#0



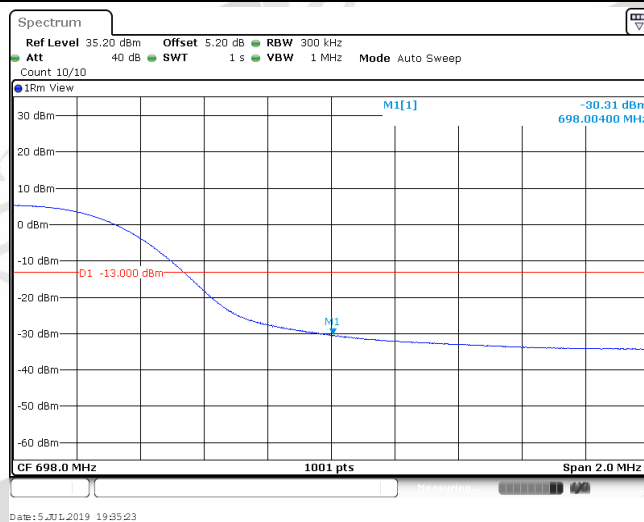
Band71_15MHz_QPSK_133197_75RB#0



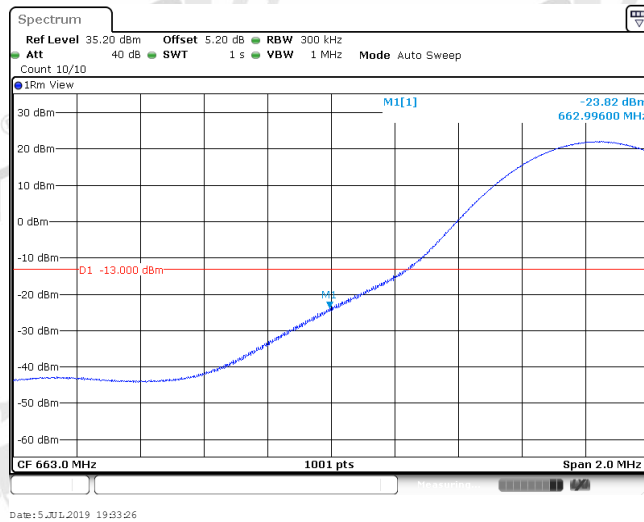
Band71_15MHz_QPSK_133397_1RB#74



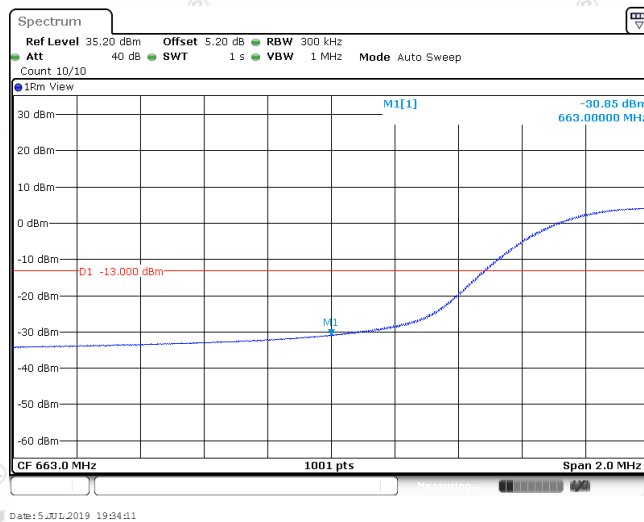
Band71_15MHz_QPSK_133397_75RB#0



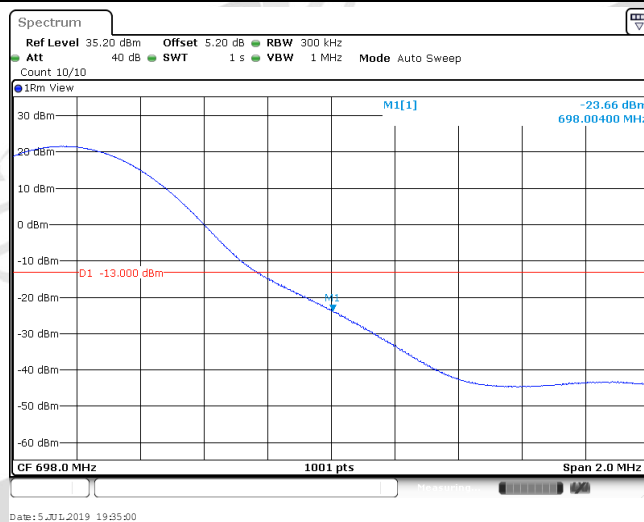
Band71_15MHz_16QAM_133197_1RB#0



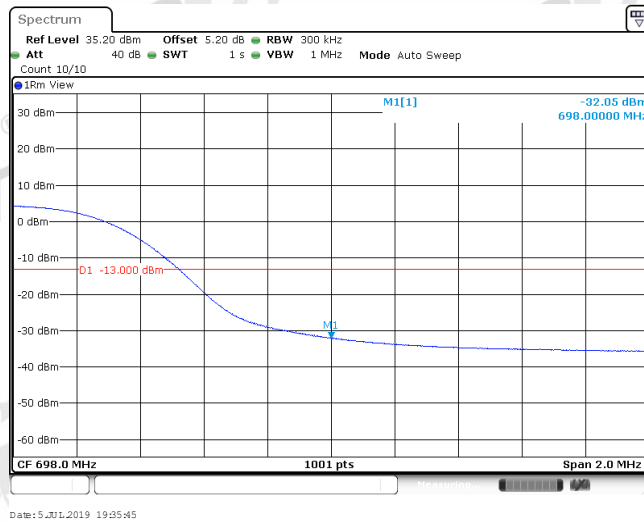
Band71_15MHz_16QAM_133197_75RB#0



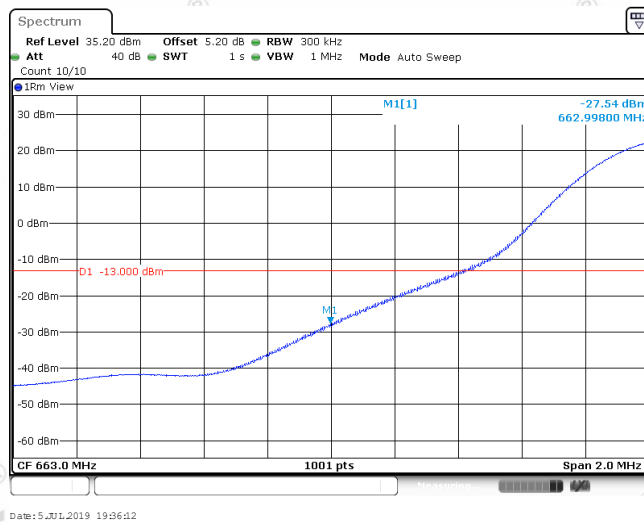
Band71_15MHz_16QAM_133397_1RB#74



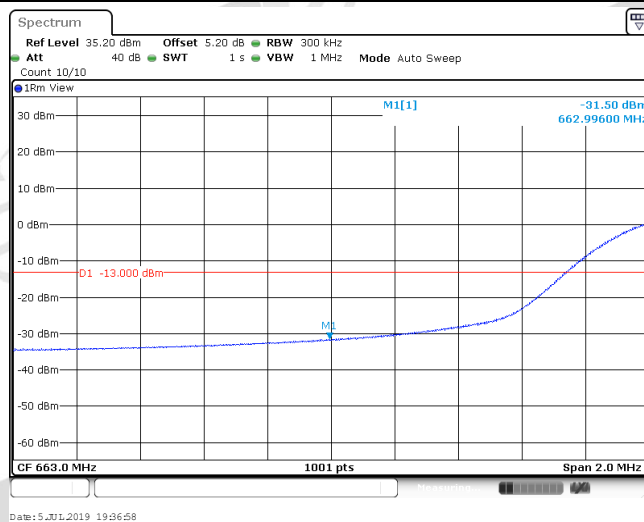
Band71_15MHz_16QAM_133397_75RB#0



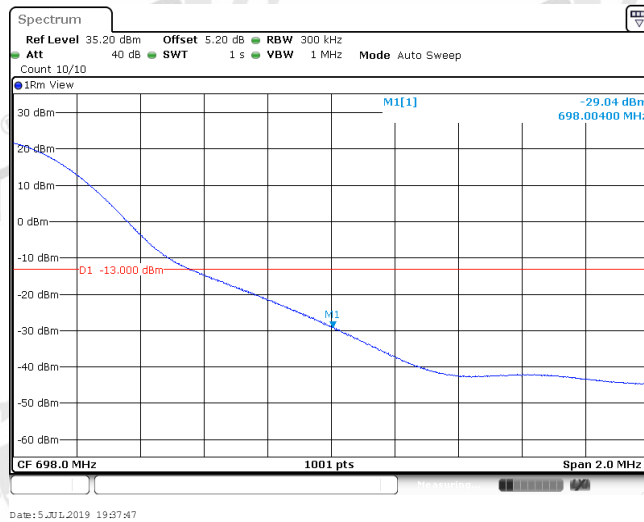
Band71_20MHz_QPSK_133222_1RB#0



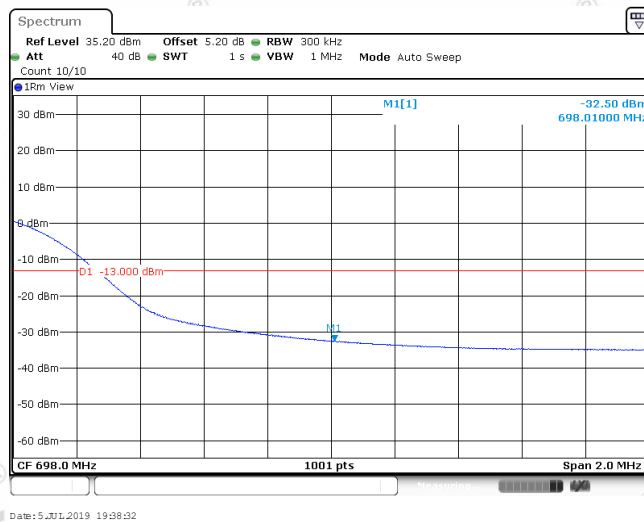
Band71_20MHz_QPSK_133222_100RB#0



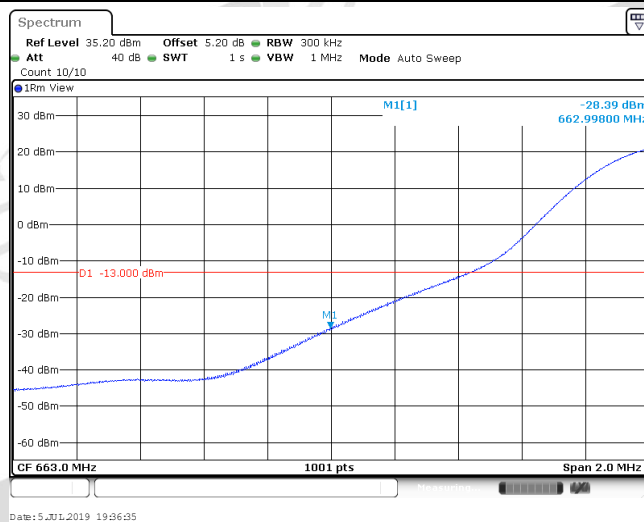
Band71_20MHz_QPSK_133372_1RB#99



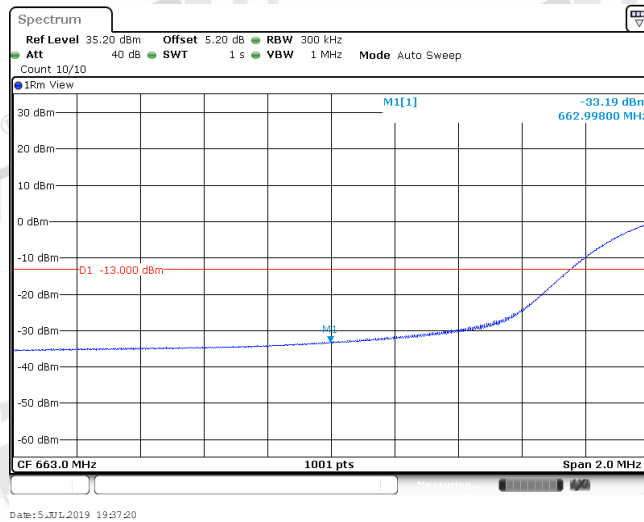
Band71_20MHz_QPSK_133372_100RB#0



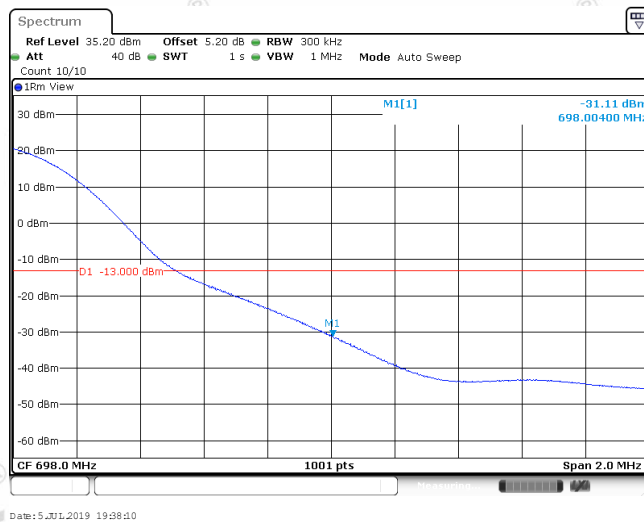
Band71_20MHz_16QAM_133222_1RB#0



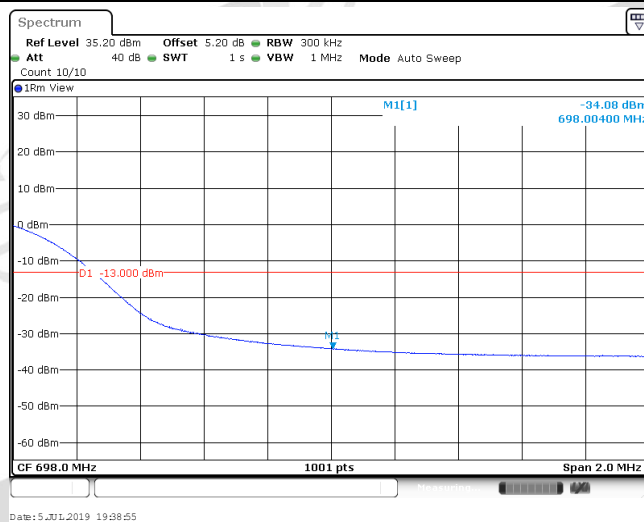
Band71_20MHz_16QAM_133222_100RB#0



Band71_20MHz_16QAM_133372_1RB#99



Band71_20MHz_16QAM_133372_100RB#0



8. Spurious Emission at Antenna Terminal

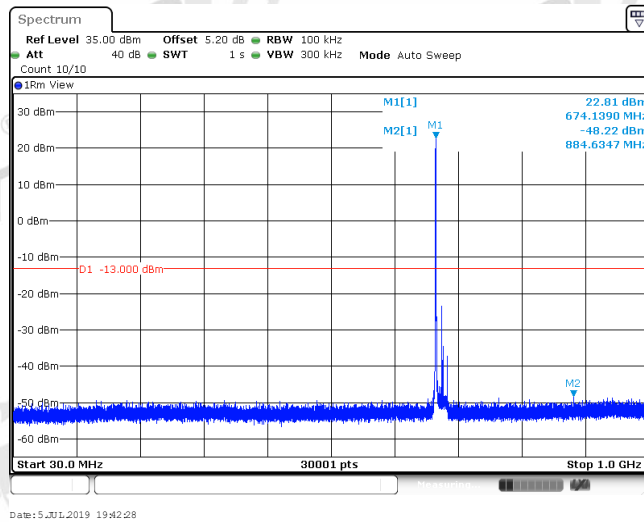
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / RBW)$ " 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.

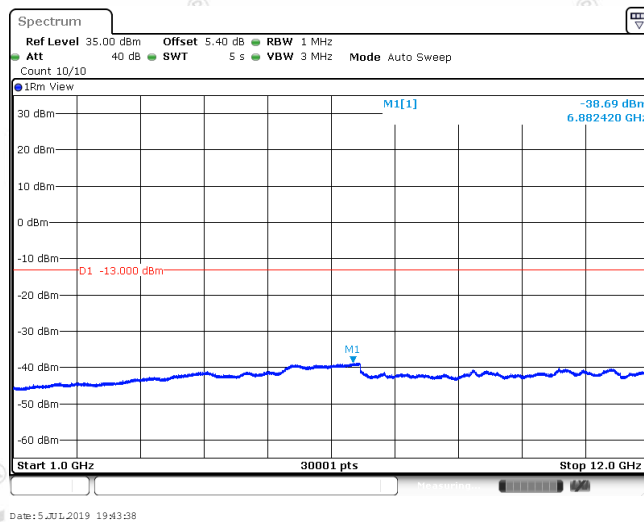
8.1. Test Plots



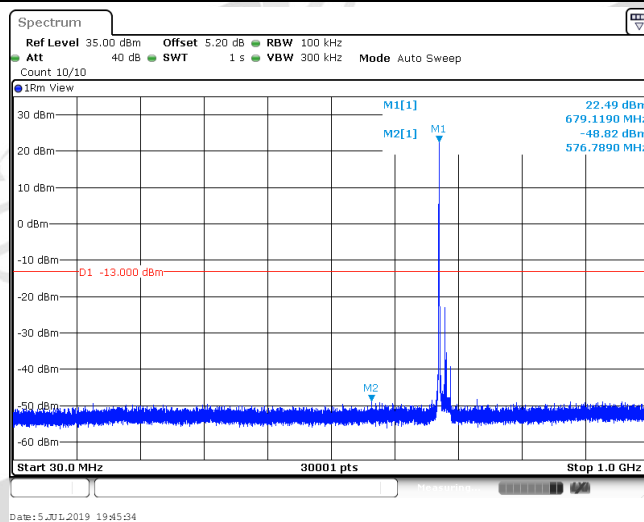
Band71_20MHz_QPSK_133322_1RB#0



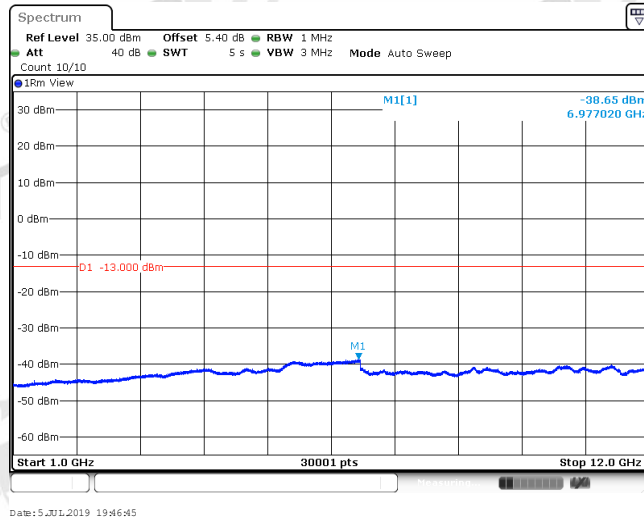
Band71_20MHz_QPSK_133322_1RB#0



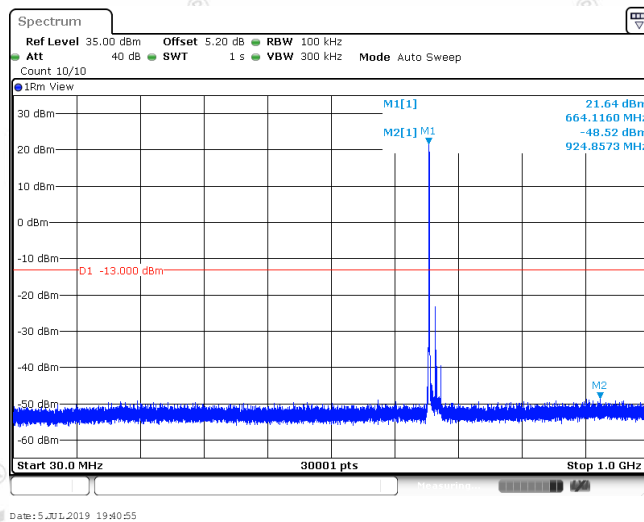
Band71_20MHz_QPSK_133372_1RB#0



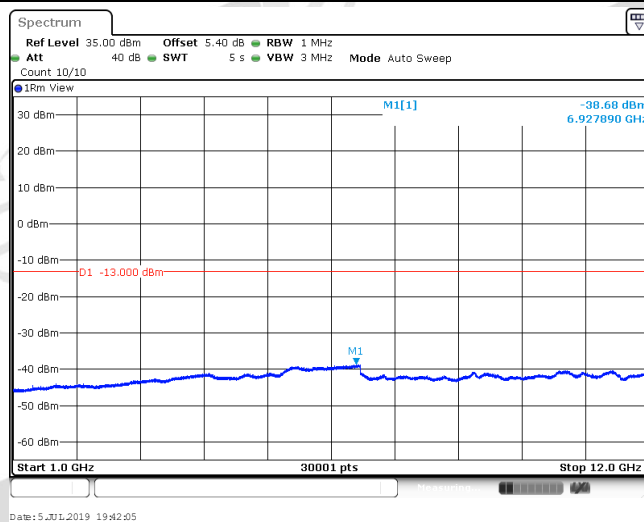
Band71_20MHz_QPSK_133372_1RB#0



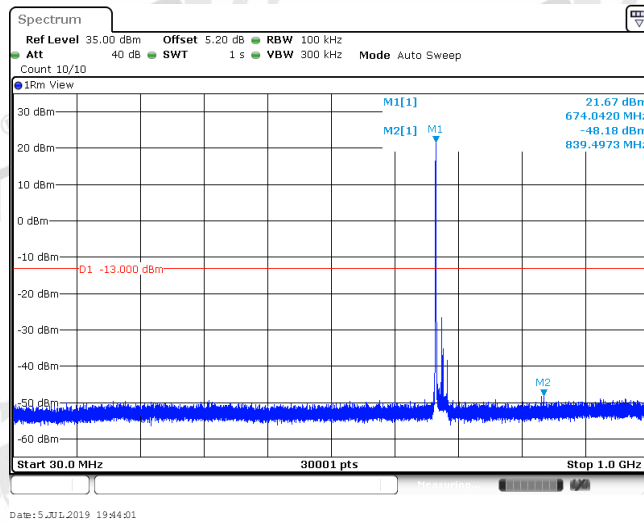
Band71_20MHz_16QAM_133222_1RB#0



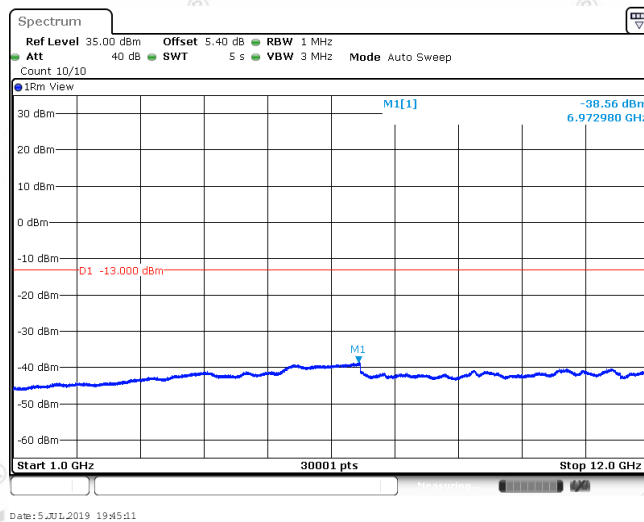
Band71_20MHz_16QAM_133222_1RB#0



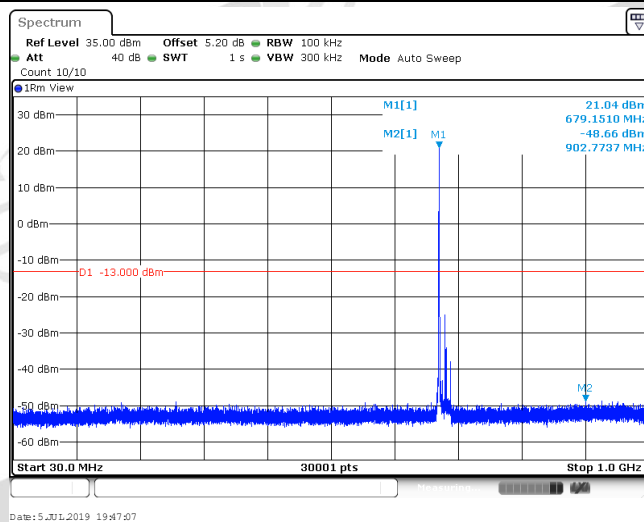
Band71_20MHz_16QAM_133322_1RB#0

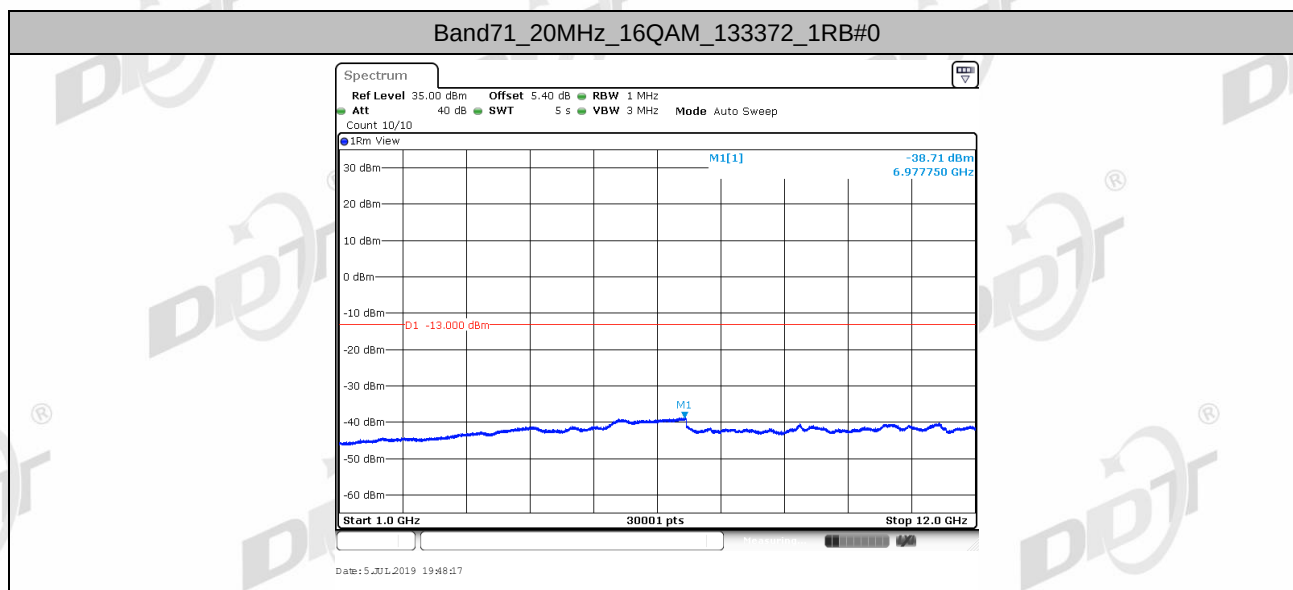


Band71_20MHz_16QAM_133322_1RB#0



Band71_20MHz_16QAM_133372_1RB#0





9. Frequency Stability

9.1. 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

9.2. 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
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
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