Appendix B

E-UTRA Band 71

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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	2018/413	2021/412
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2019/7/14	2020/7/14
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2019/7/14	2020/7/14
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2019/9/20	2020/9/19
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 CommunicationTeste	Anristu	MT8821C	6201462742	2019/4/3	2020/4/3
Wideband Radio CommunicationTester	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 CommunicationTeste	Anristu	MT8821C	6201462742	2019/3/2	2020/3/1

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 =±0.37 dB
Bandwidth	Magnitude [%]	U =± 0.2%
Band Edge Compliance	Disturbance Power [dBm]	U = ±2.0 dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	U = ±2.0 dB
Frequency Stability	Frequency Accuracy [ppm]	U = ±0.24 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#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
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
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
Band71	20MHz	QPSK	133222	100RB#0	21.29	17.25	34.77	PASS
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] = Conducted Power [dBm] + Gain [dBd]

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

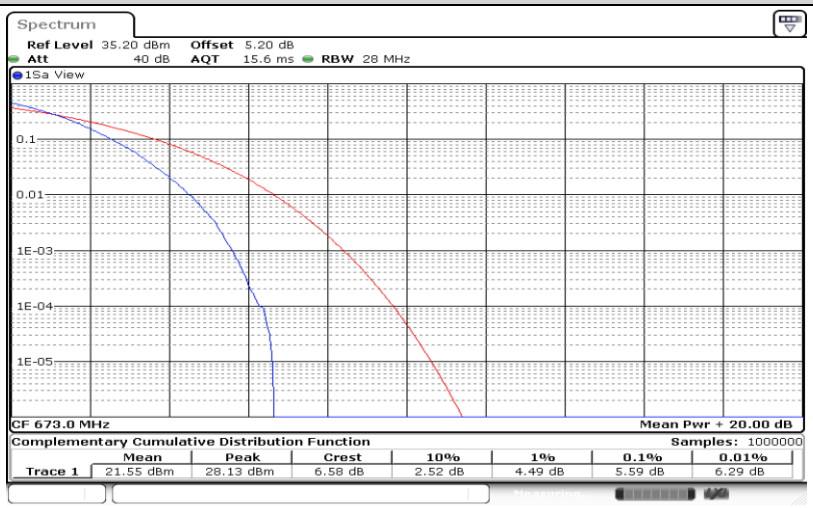
4. Peak-to-Average Ratio (CCDF)

4.1. Test Result

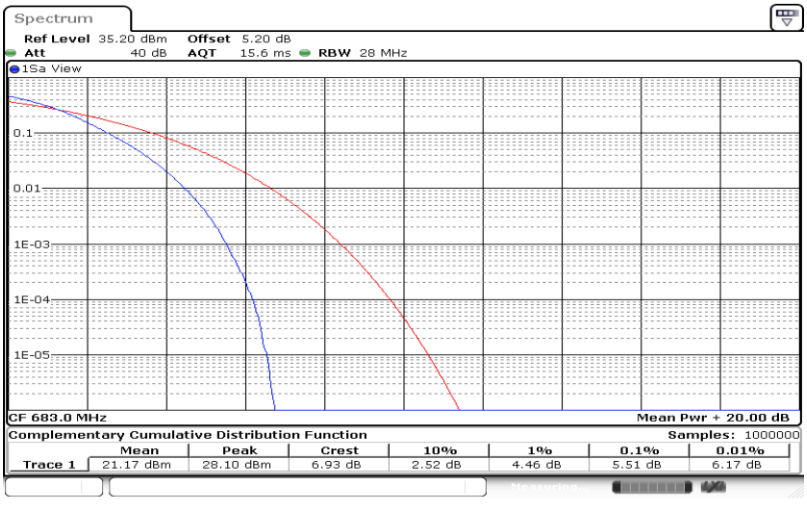
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band71	20MHz	QPSK	133222	100RB#0	5.59	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.51	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.74	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.29	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.29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

4.2. Test Plots

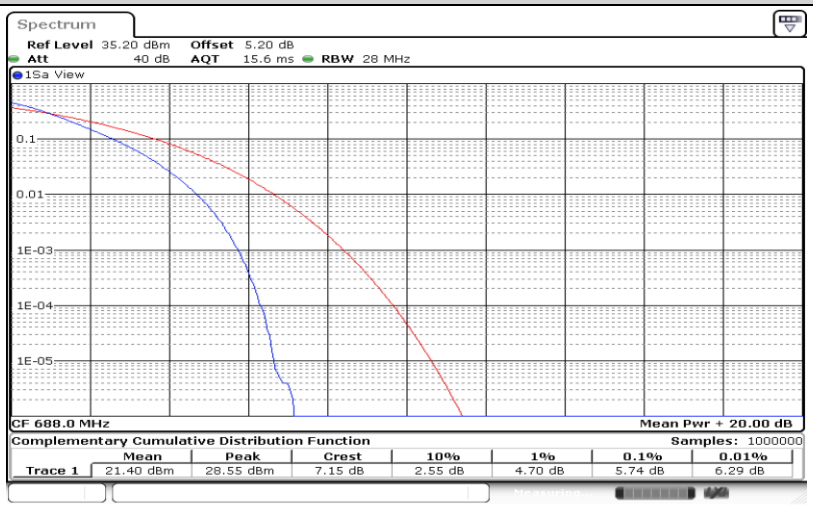
Band71-20MHz-QPSK-133222-100RB#0



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



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



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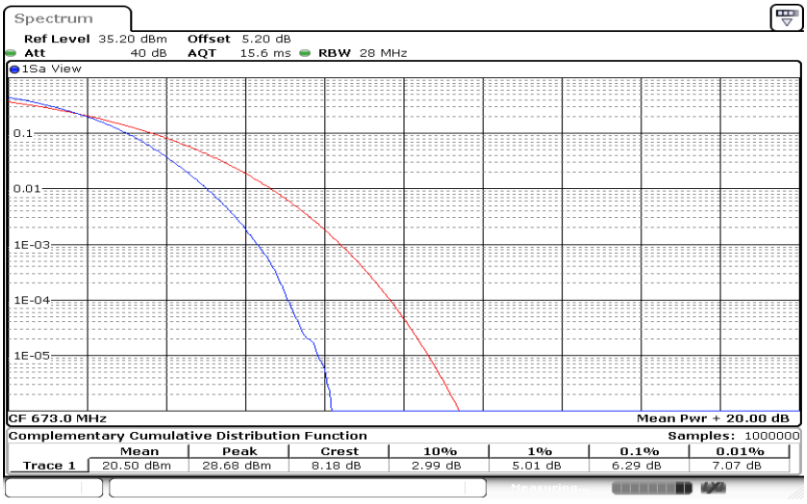
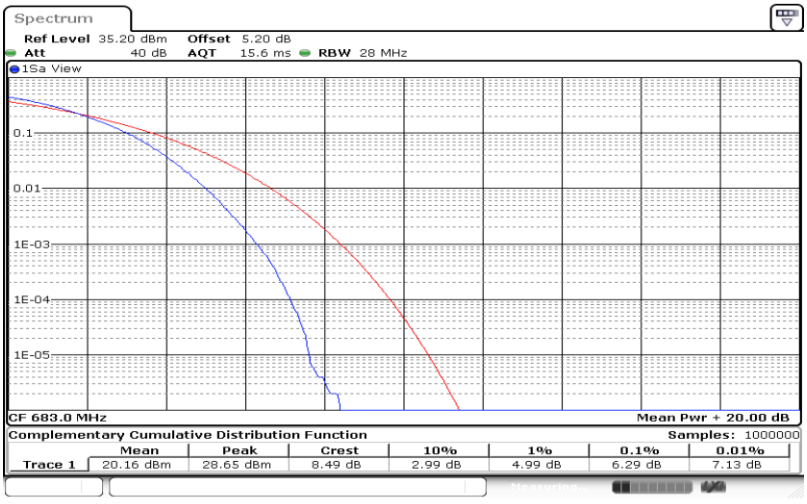
Band71-20MHz-16QAM-133222-100RB#0



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

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



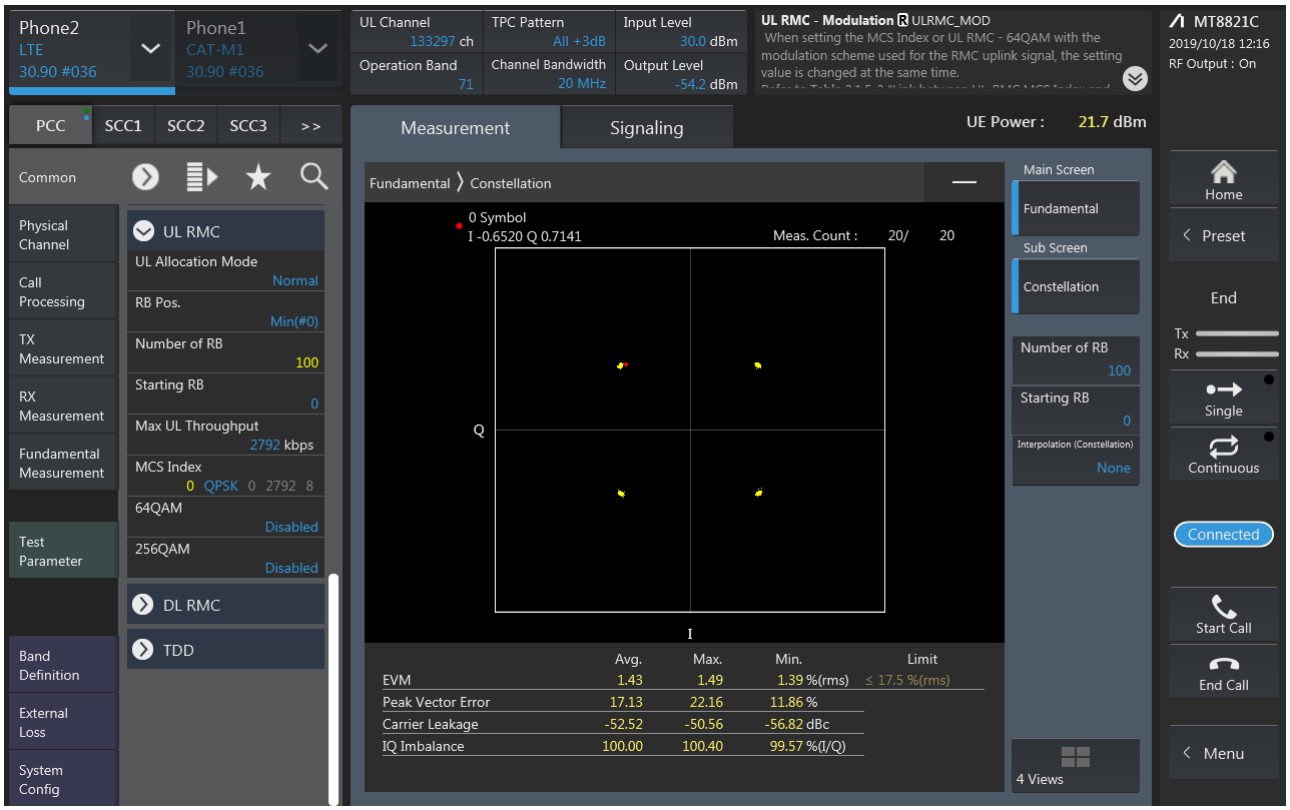
Date: 18.OCT.2019 03:24:37

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

5. Modulation Characteristics

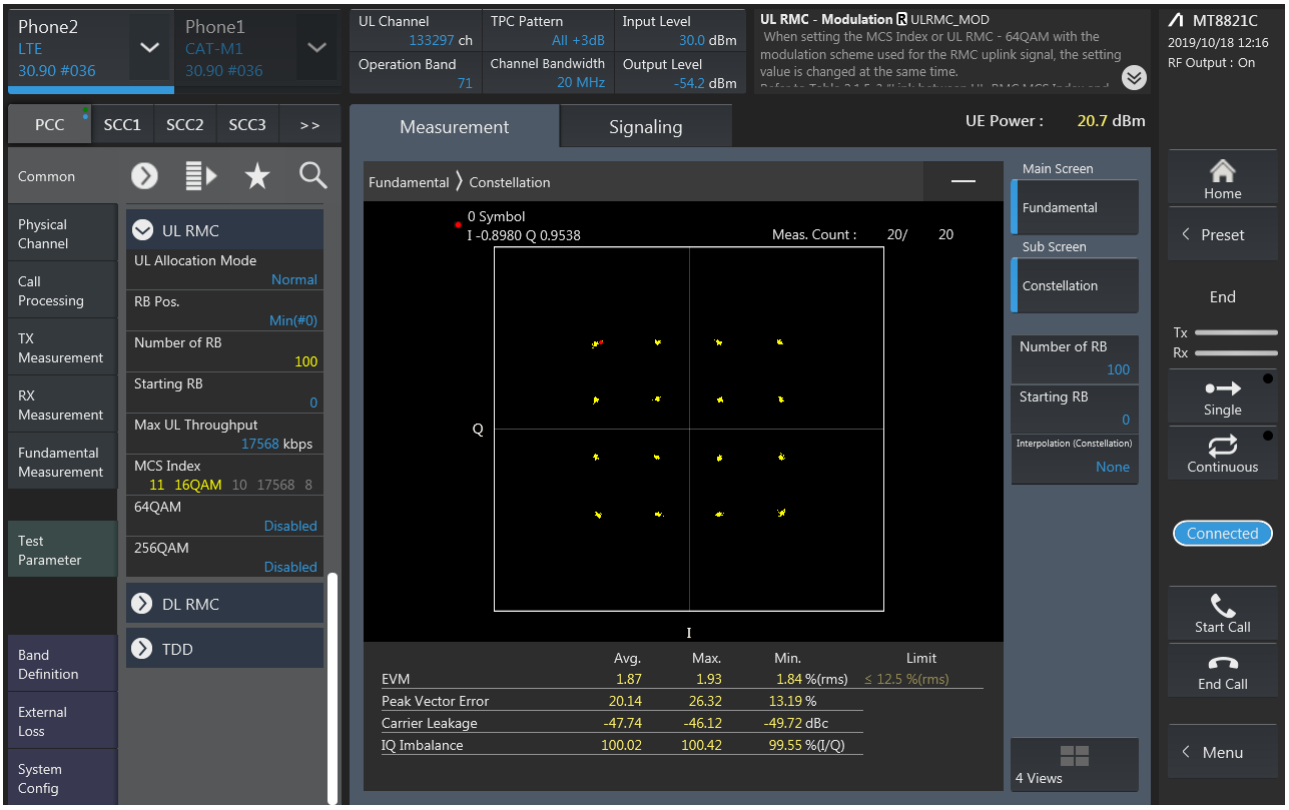
5.1. Test Mode = LTE /TM1 20MHz

5.1.1.Test Channel = MCH



5.2. Test Mode = LTE /TM2 20MHz

5.2.1.Test Channel = MCH



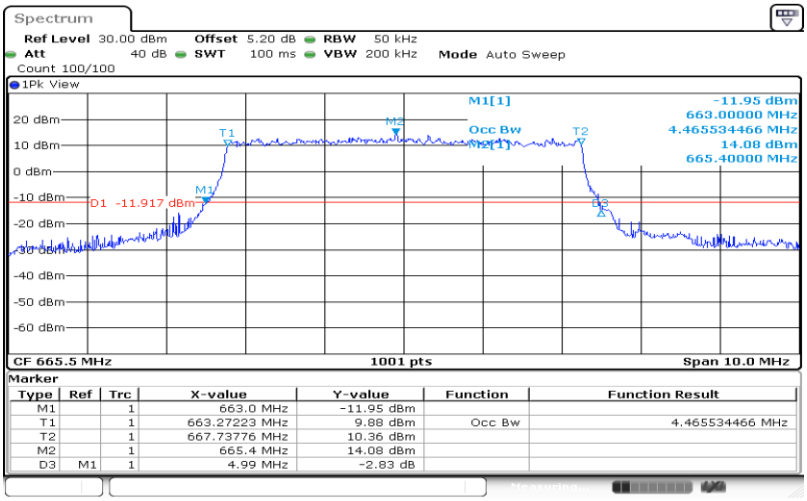
6. 26dB Bandwidth and Occupied Bandwidth

6.1. Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	4.466	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

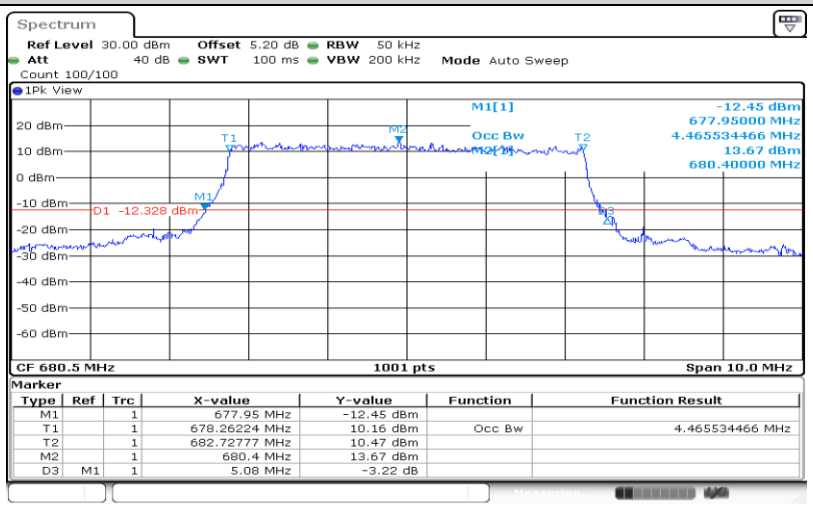
6.2. Test Plots

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



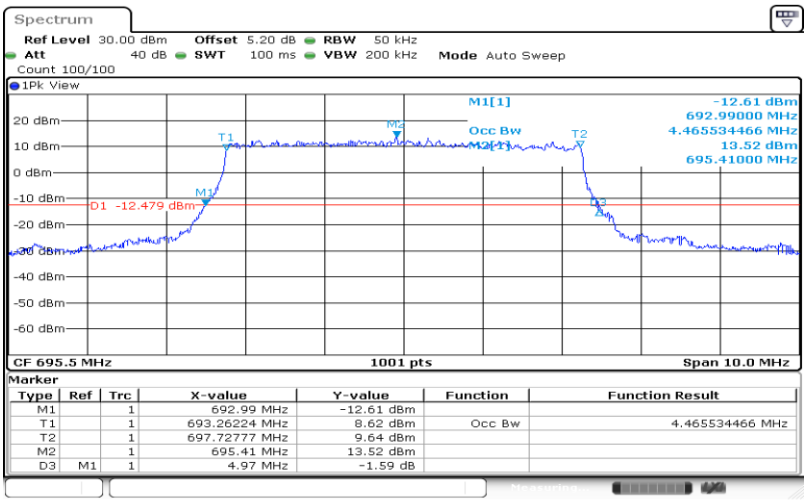
Date: 18.OCT.2019 02:58:23

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



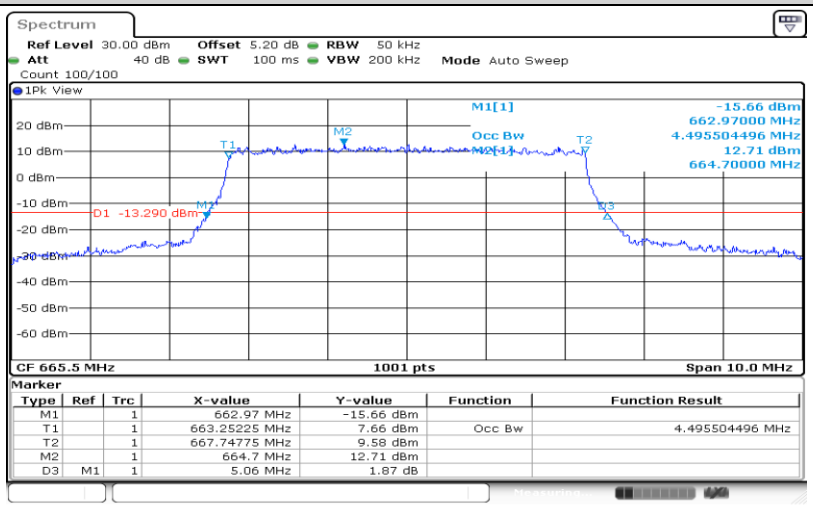
Date: 18.OCT.2019 02:59:03

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



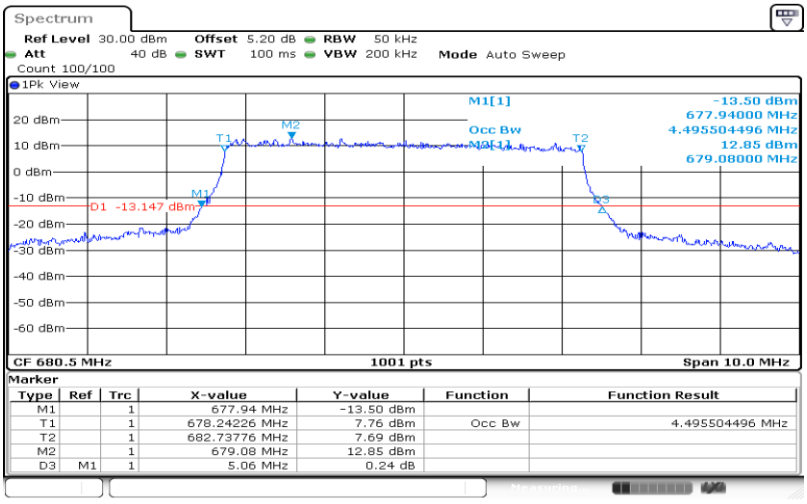
Date: 18.OCT.2019 02:59:42

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



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

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



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

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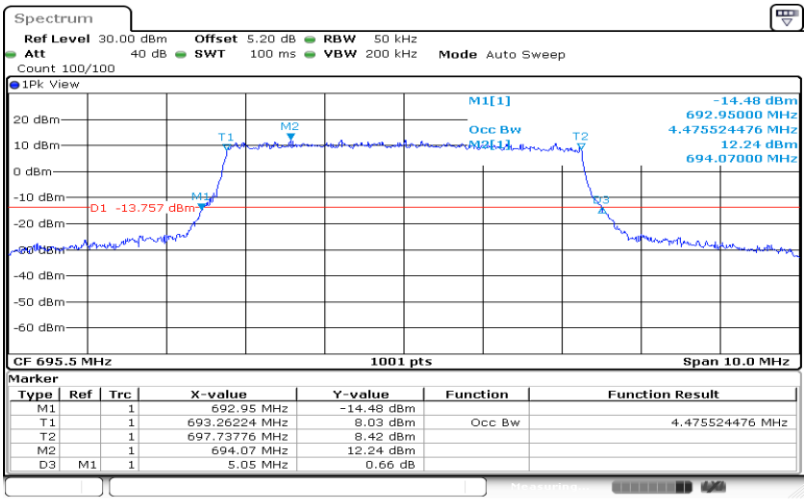
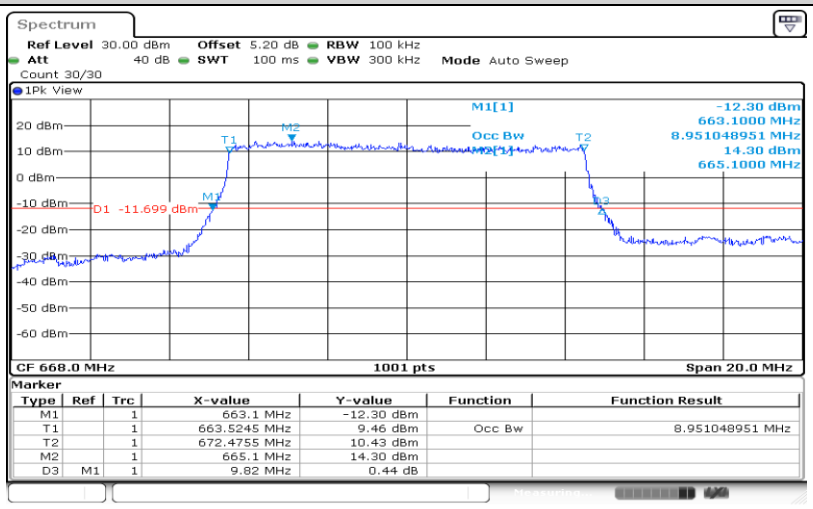


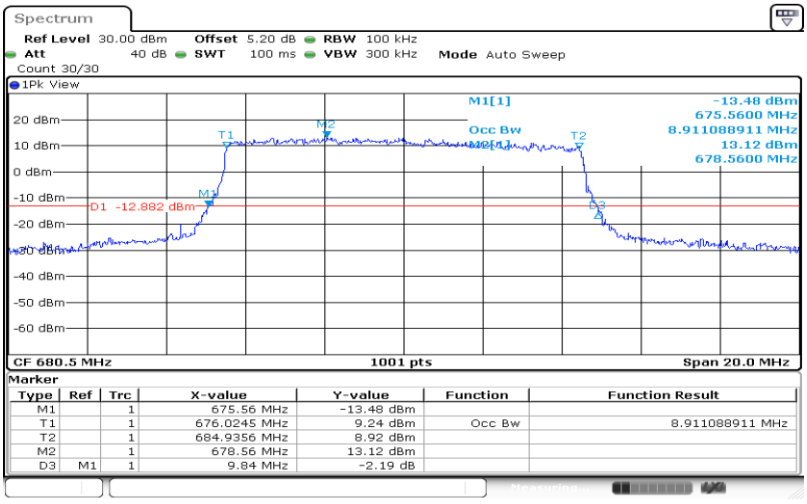
Date: 18.OCT.2019 03:00:02

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



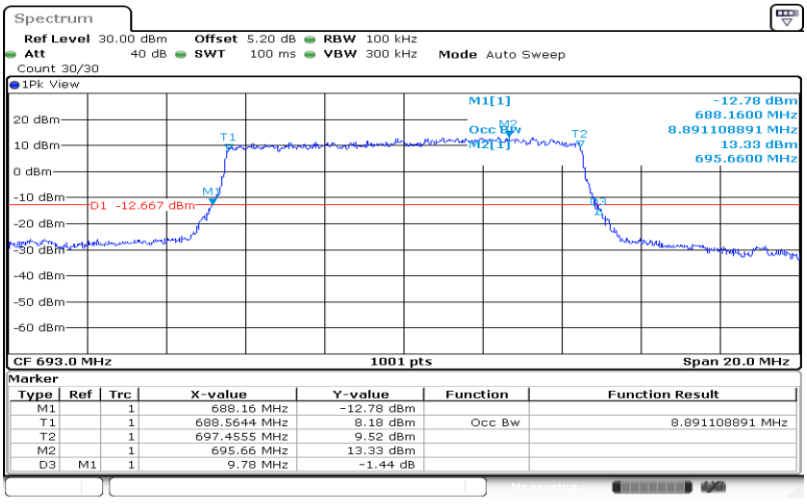
Date: 18.OCT.2019 03:00:19

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



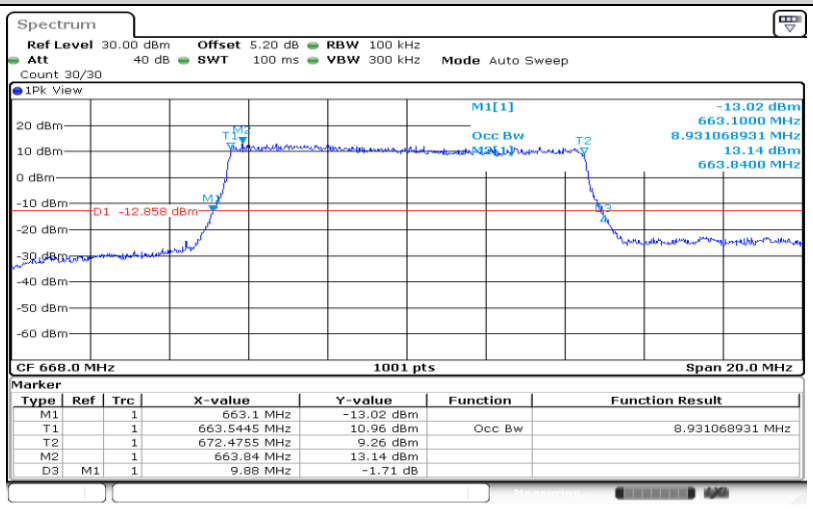
Date: 18.OCT.2019 03:00:45

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



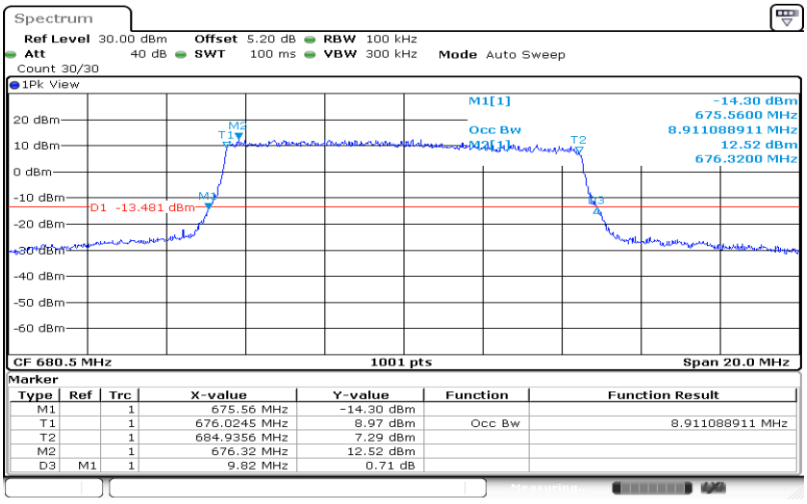
Date: 18.OCT.2019 03:01:10

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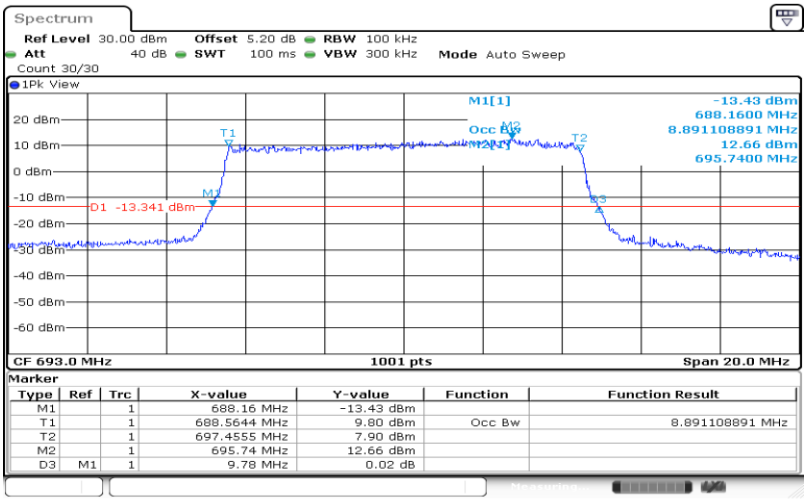
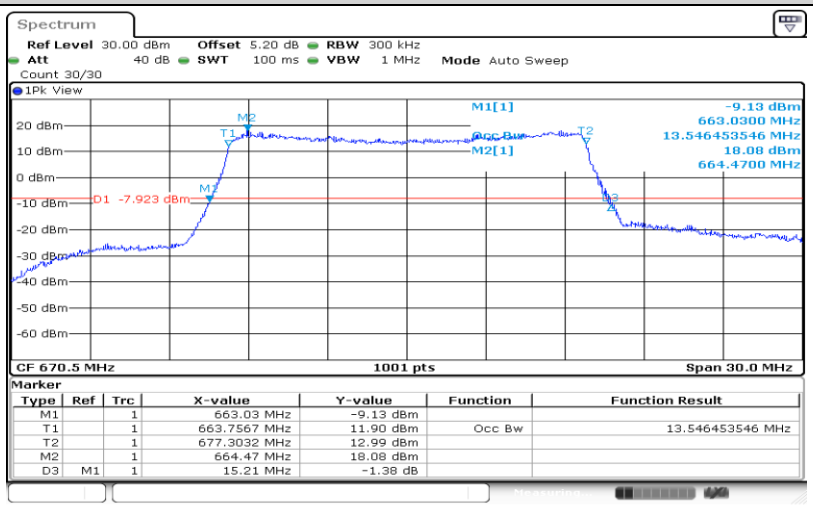
Band71-10MHz-16QAM-133422-50RB#0-8.891



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

Band71-15MHz-QPSK-133197-75RB#0-13.546



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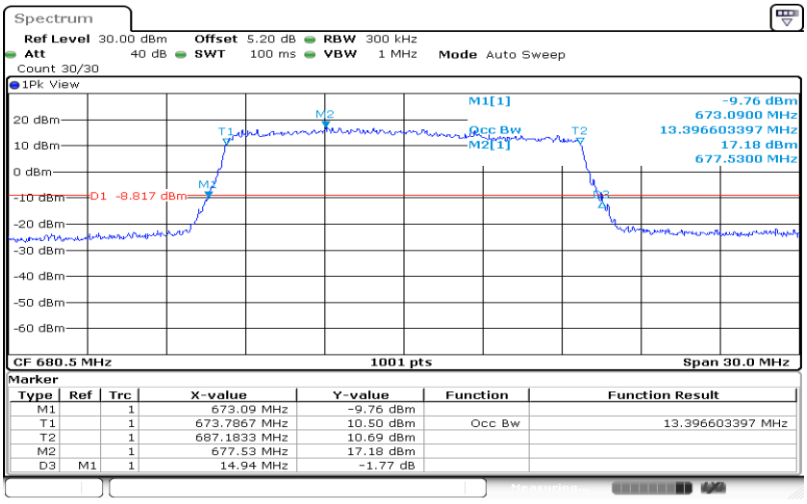
Band71-15MHz-QPSK-133297-75RB#0-13.397



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

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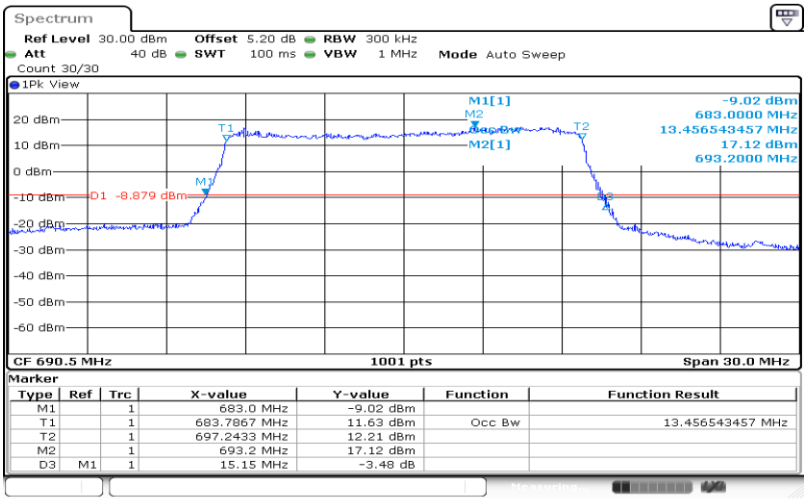
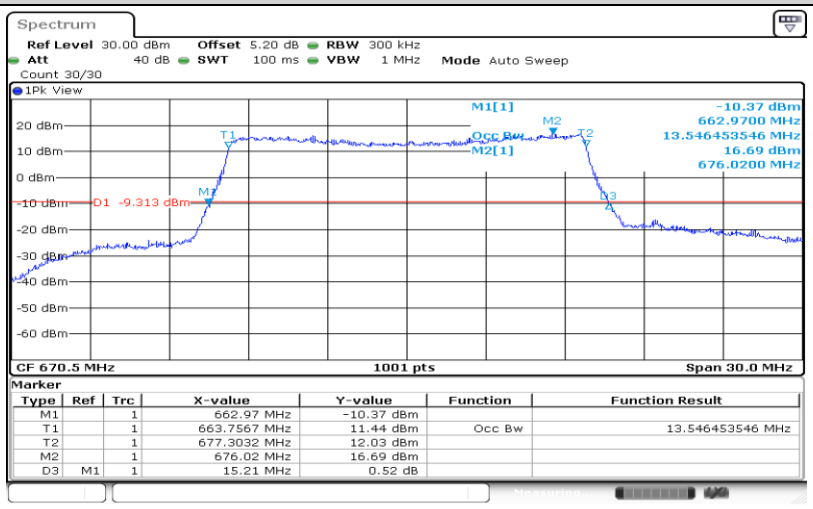


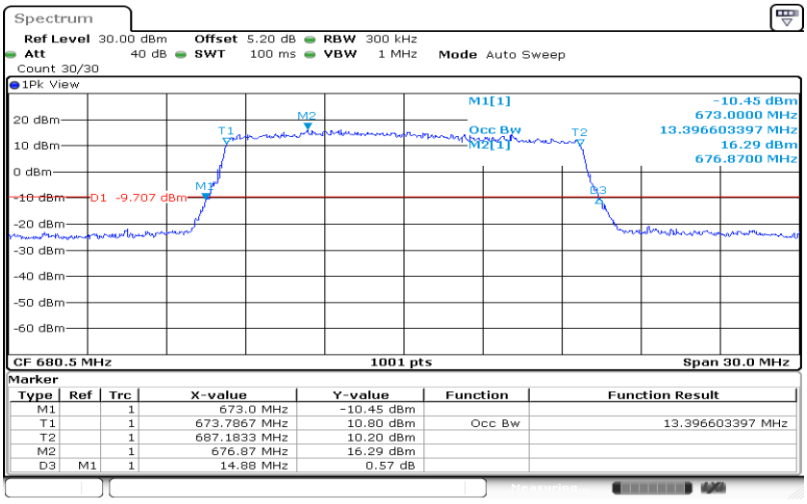
Date: 18.OCT.2019 03:02:31

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



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

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



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

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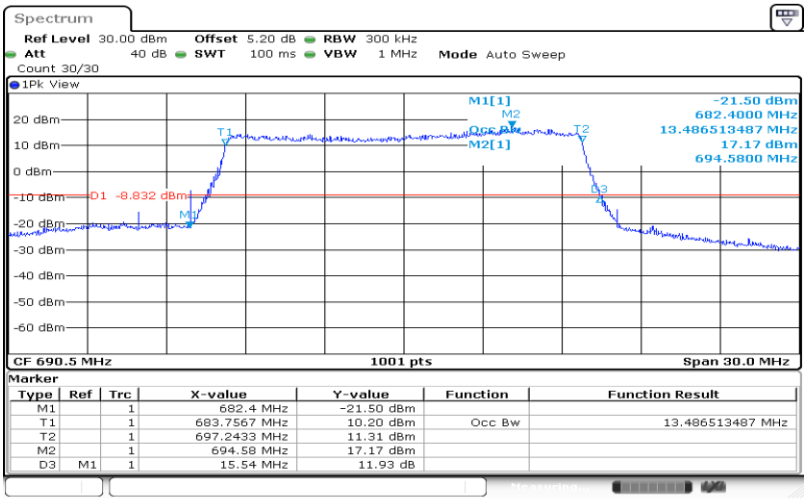
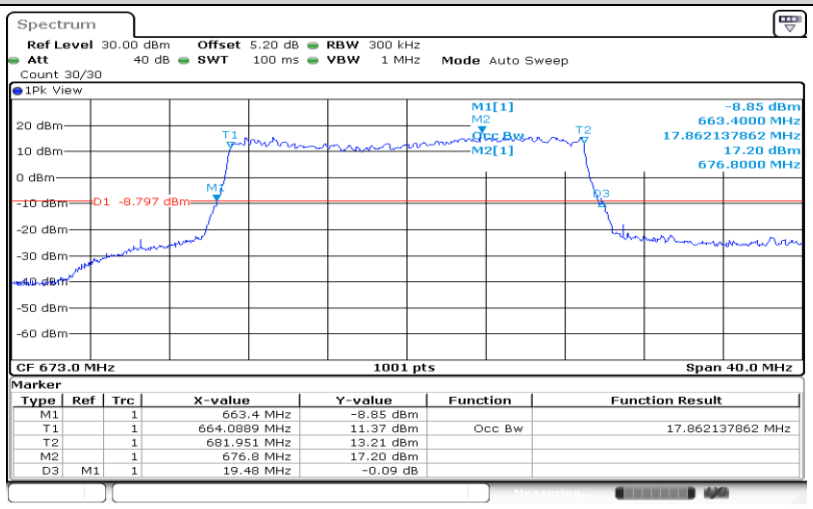


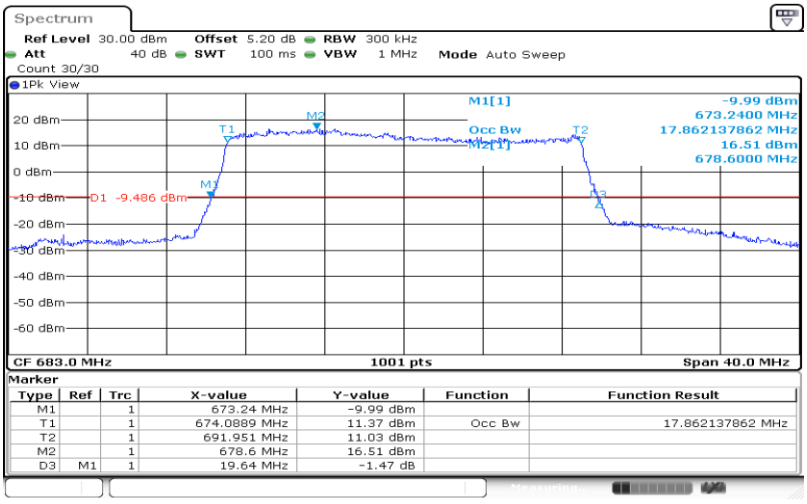
Date: 18.OCT.2019 03:02:43

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



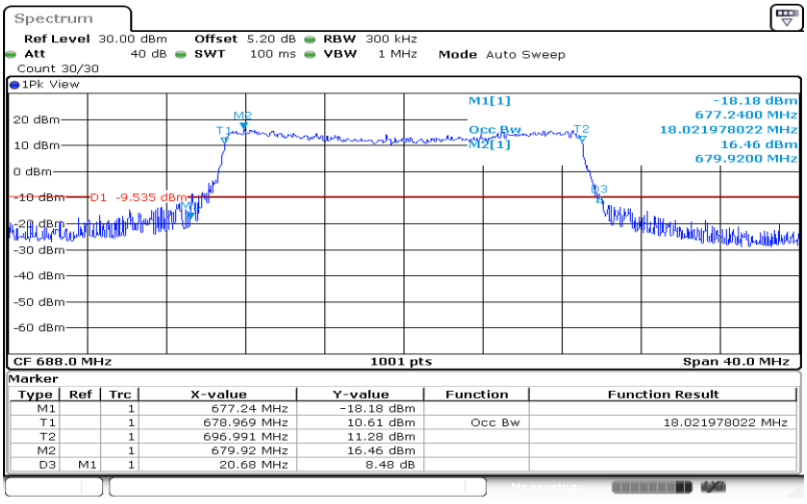
Date: 18.OCT.2019 03:03:01

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



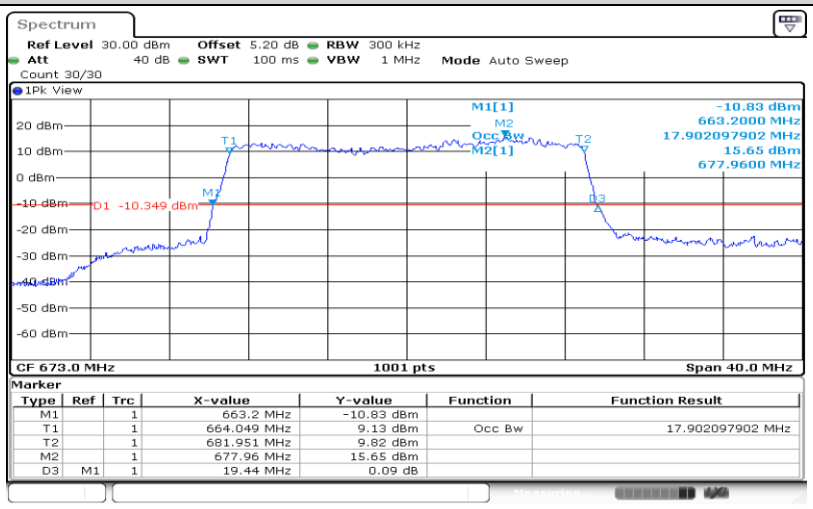
Date: 18.OCT.2019 03:03:26

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



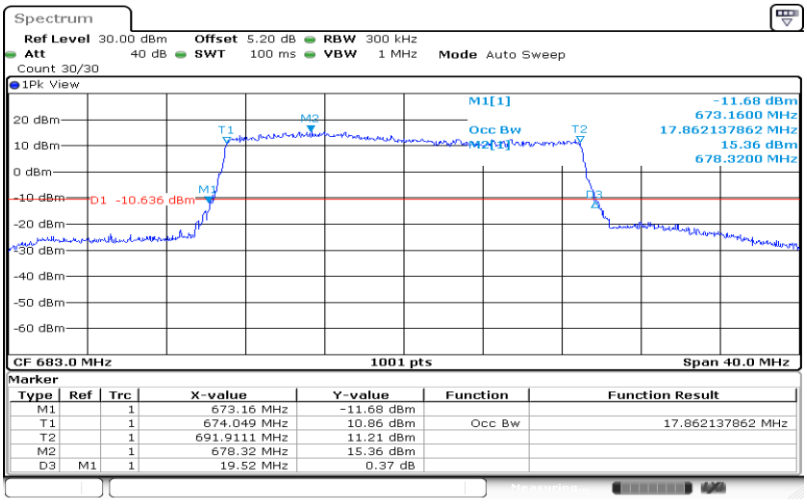
Date: 18.OCT.2019 03:03:52

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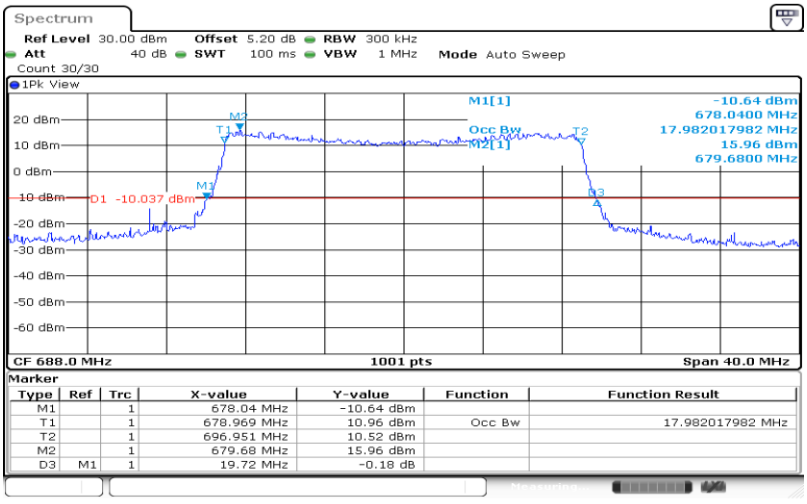
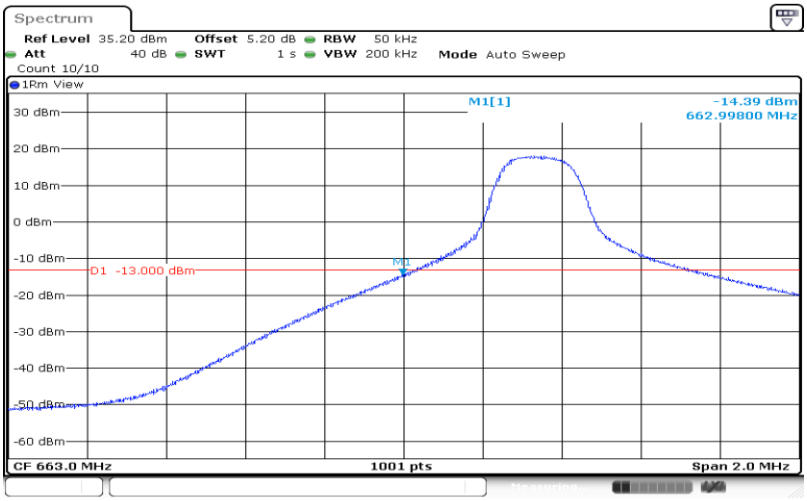
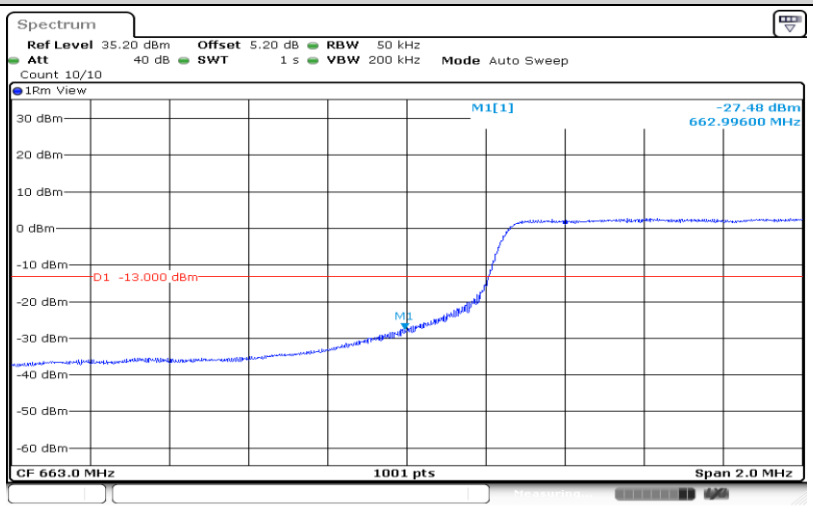
Band71-20MHz-16QAM-133372-100RB#0-17.982



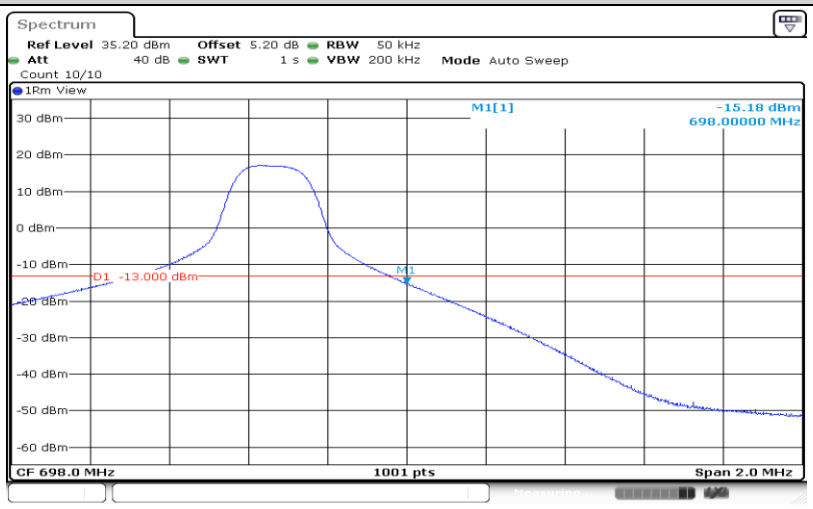
Date: 18.OCT.2019 03:04:04

7. Band Edge Compliance

7.1. Test Plots

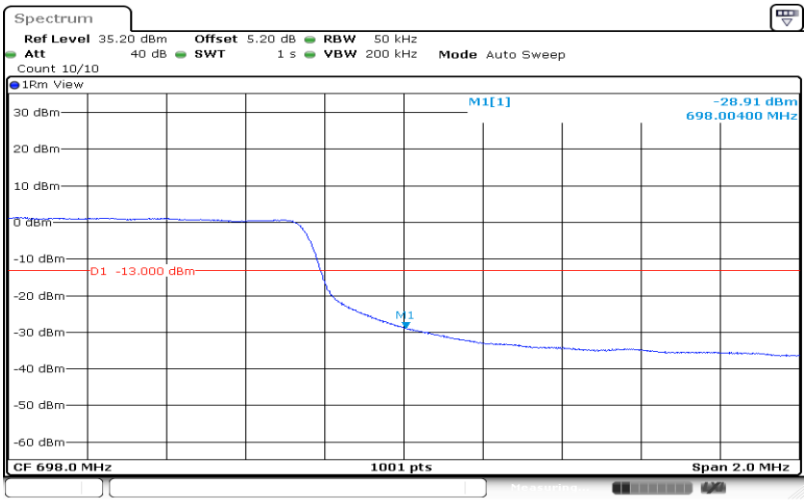
Band71-5MHz-QPSK-133147-1RB#0

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


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



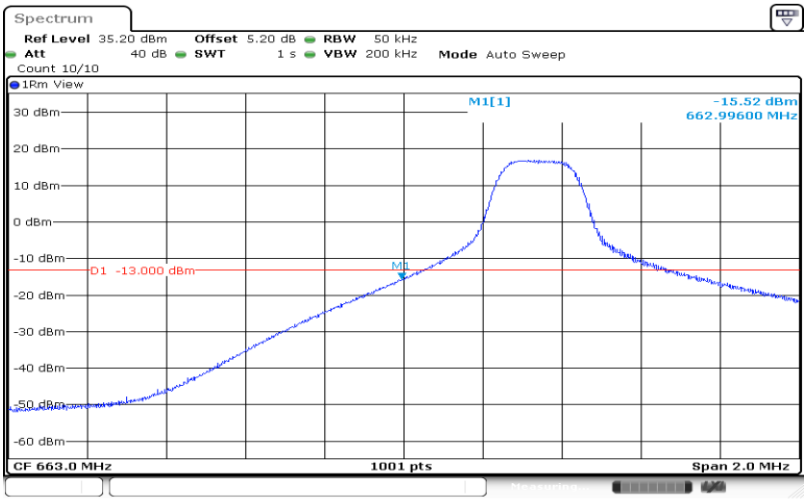
Date: 18.OCT.2019 03:05:51

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



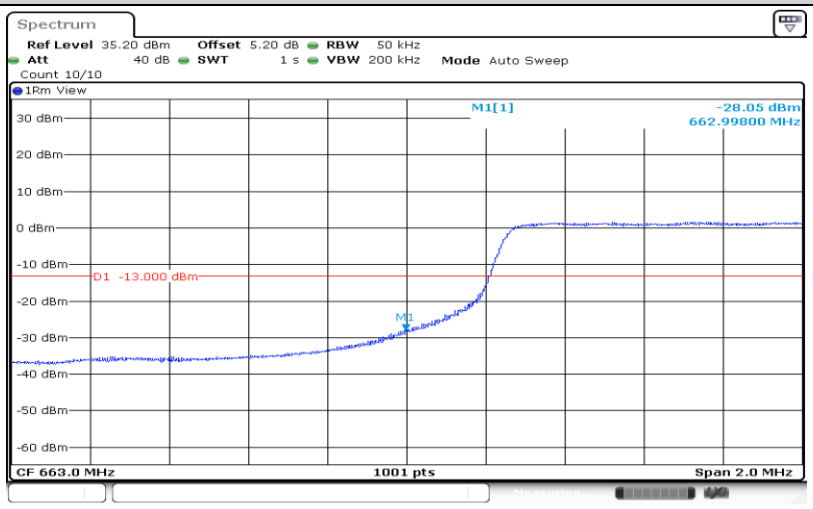
Date: 18.OCT.2019 03:06:30

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



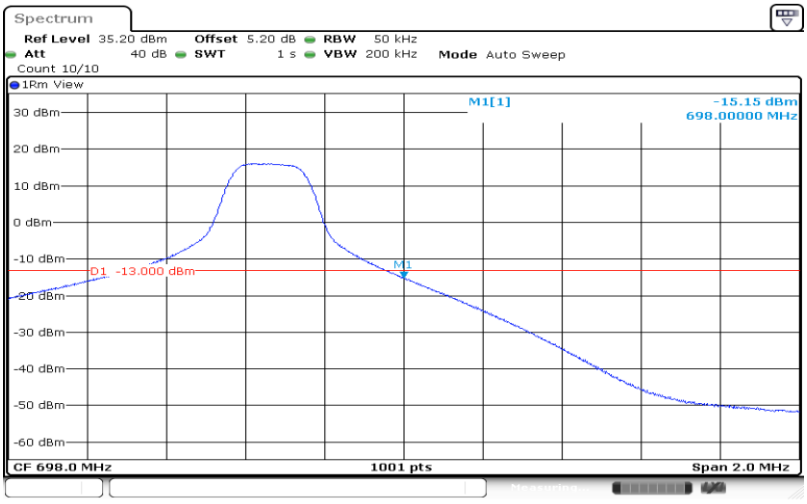
Date: 18.OCT.2019 03:04:48

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



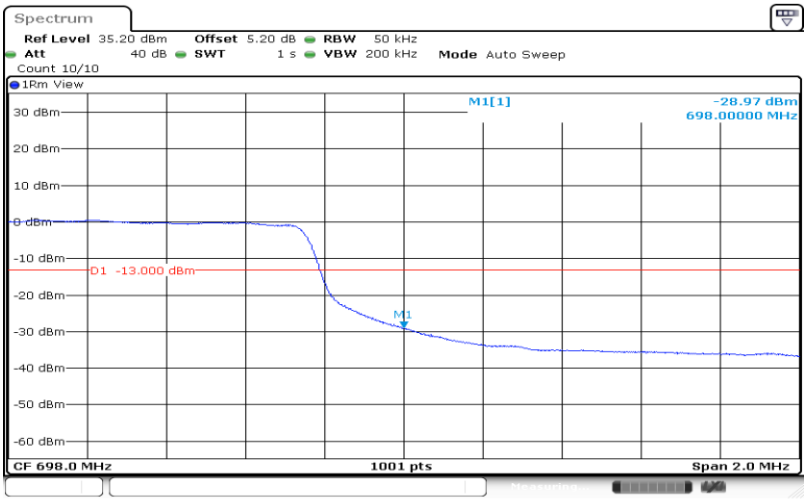
Date: 18.OCT.2019 03:05:27

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



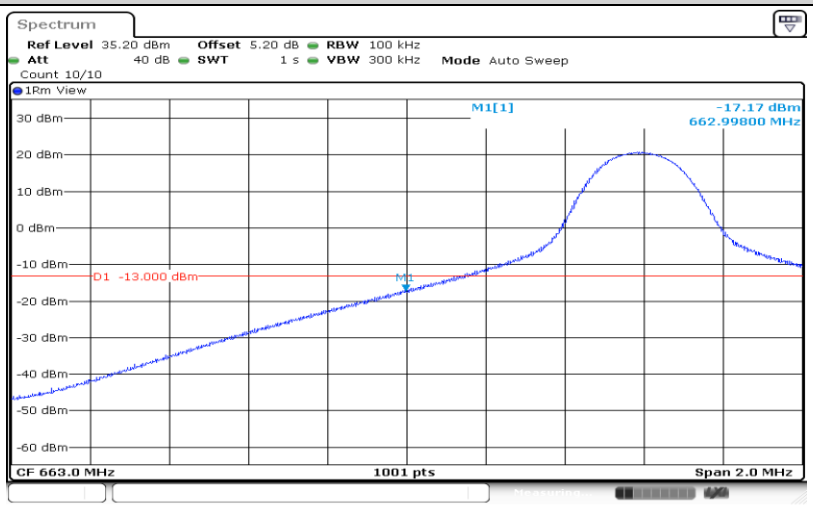
Date: 18.OCT.2019 03:06:10

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

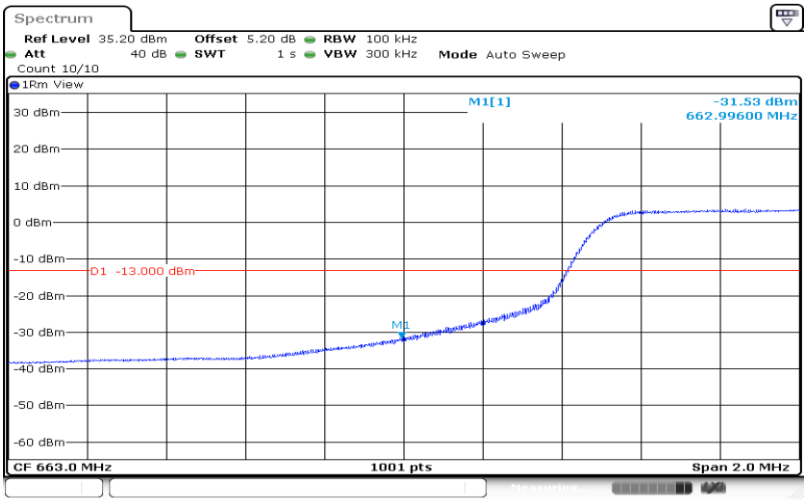


Date: 18.OCT.2019 03:06:49

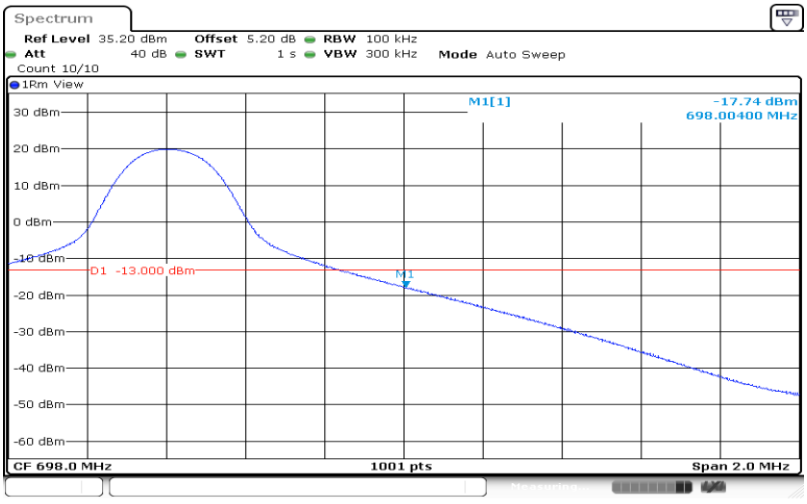
Band71-10MHz-QPSK-133172-1RB#0



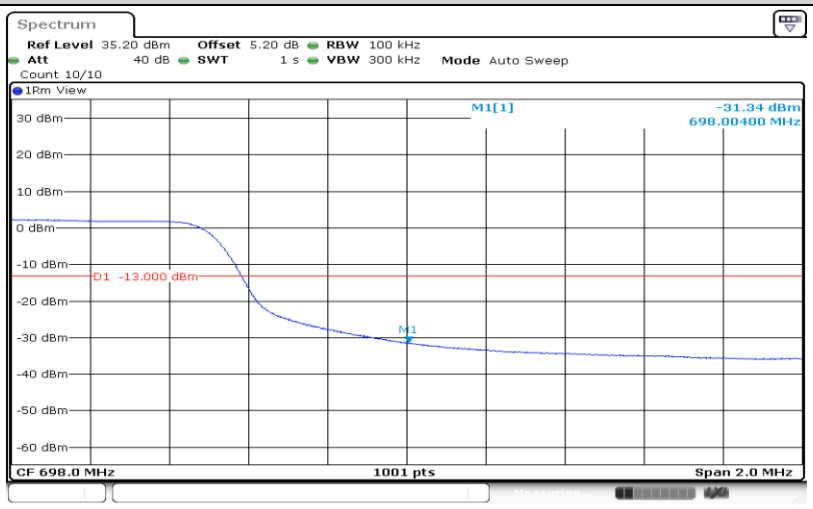
Band71-10MHz-QPSK-133172-50RB#0



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

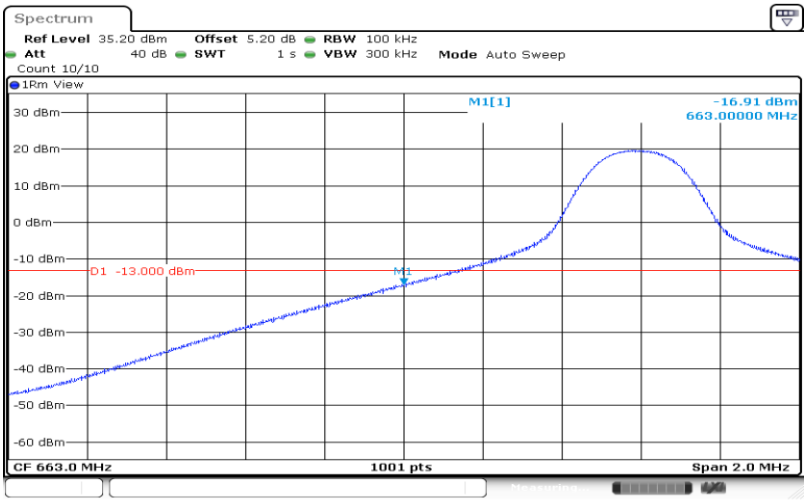


Band71-10MHz-QPSK-133422-50RB#0



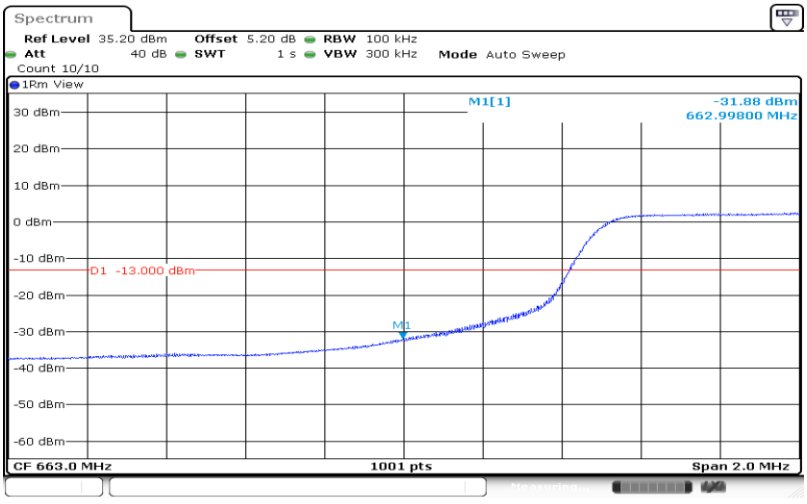
Date: 18.OCT.2019 03:09:15

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



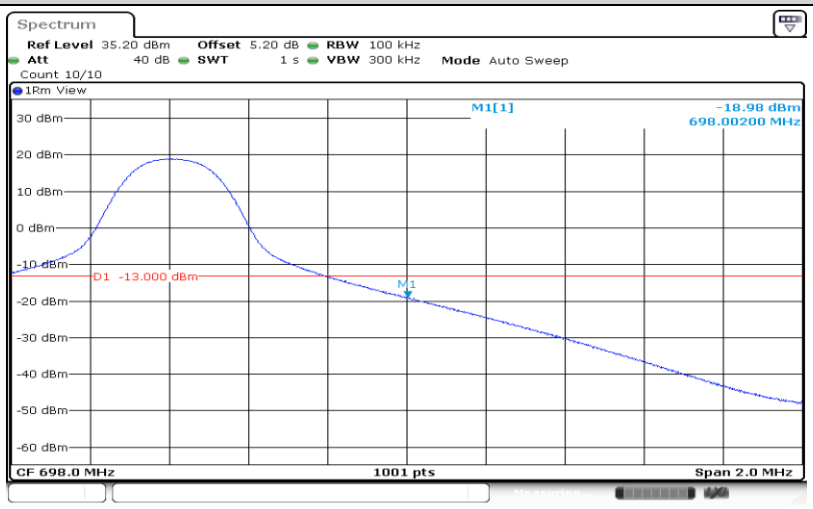
Date: 18.OCT.2019 03:07:33

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



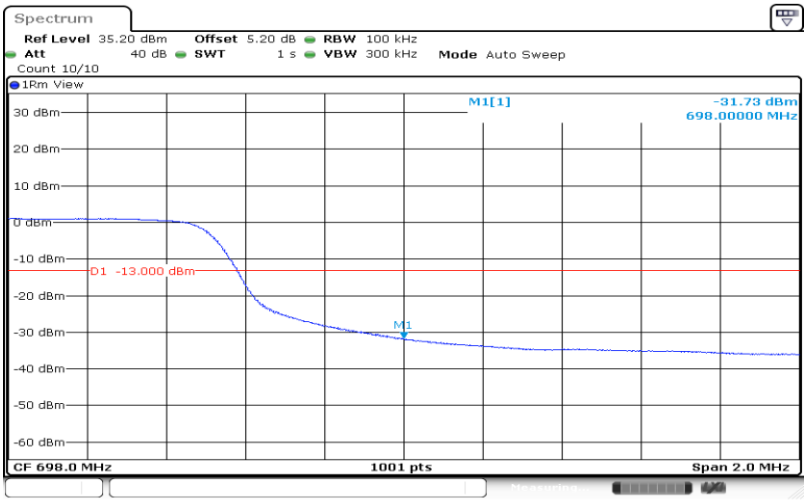
Date: 18.OCT.2019 03:08:12

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



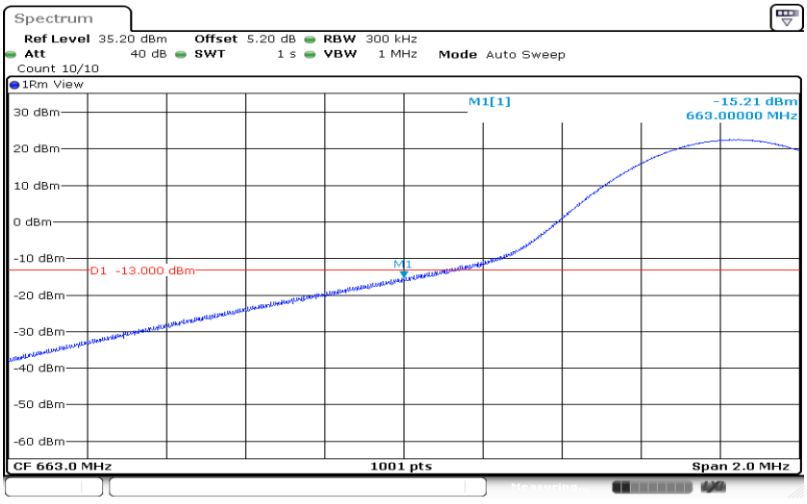
Date: 18.OCT.2019 03:08:55

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



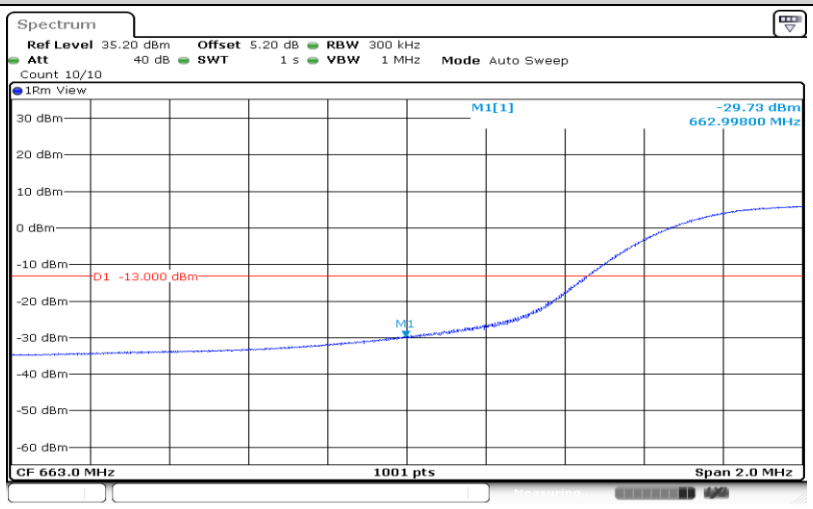
Date: 18.OCT.2019 03:09:34

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



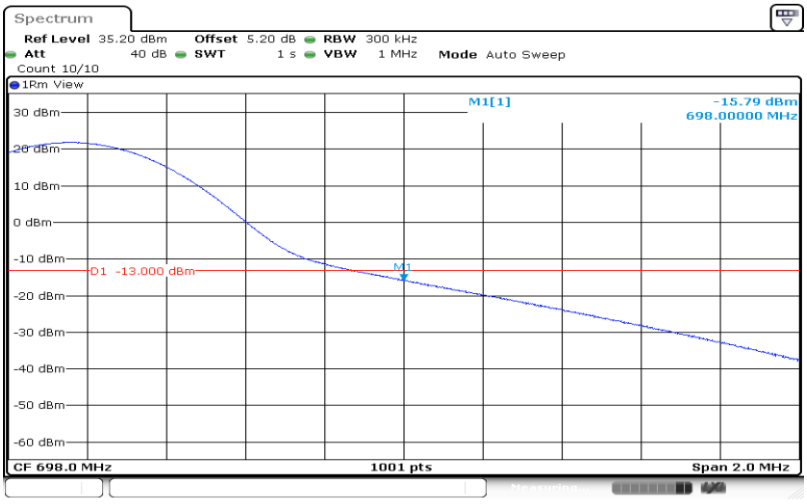
Date: 18.OCT.2019 03:09:58

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



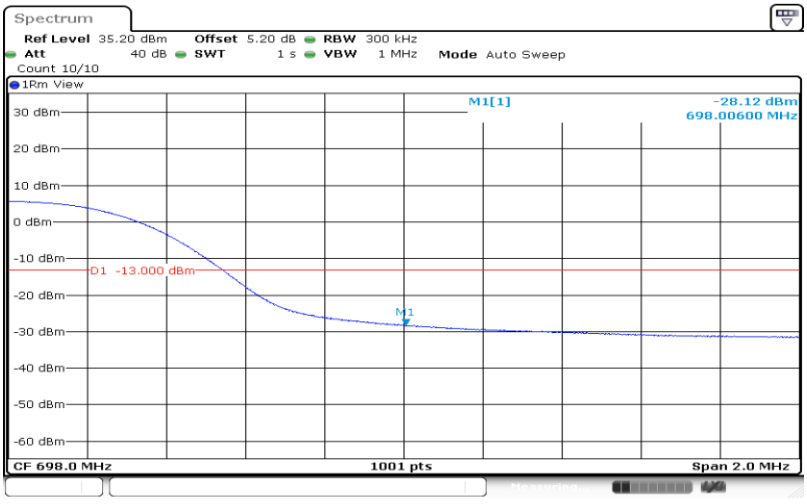
Date: 18.OCT.2019 03:10:37

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



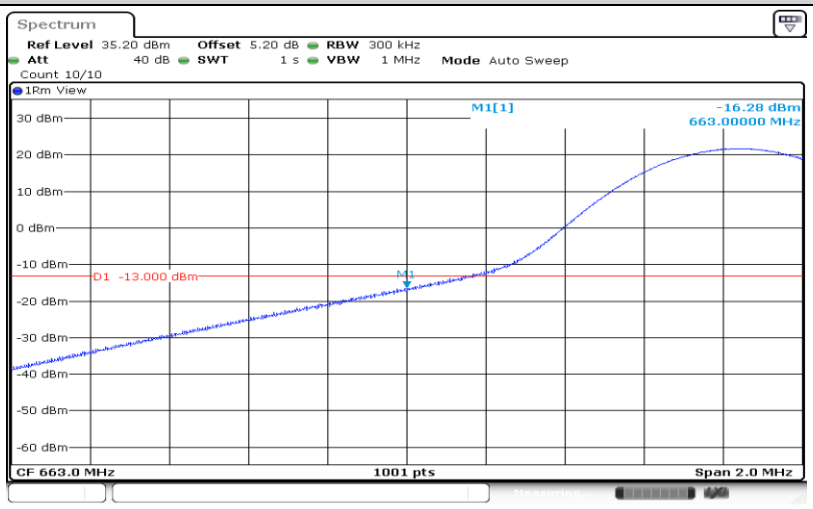
Date: 18.OCT.2019 03:11:20

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



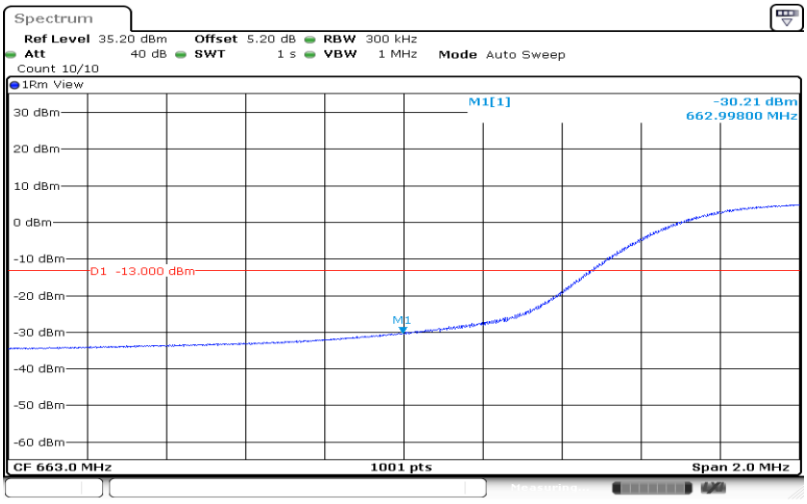
Date: 18.OCT.2019 03:11:59

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



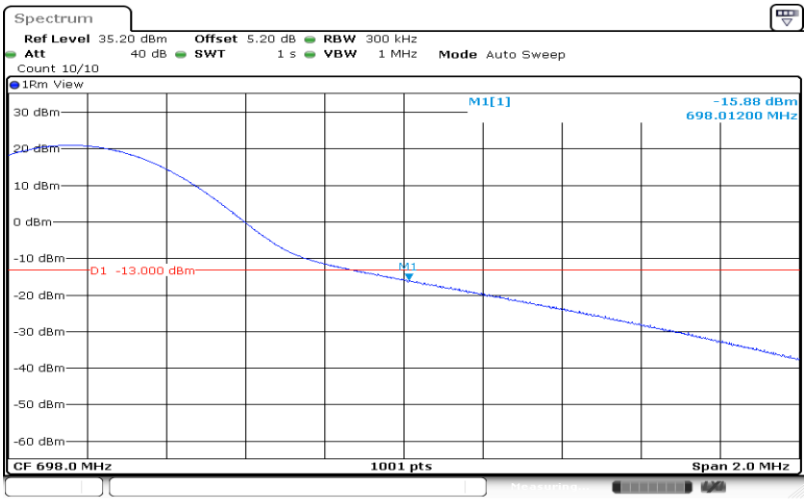
Date: 18.OCT.2019 03:10:18

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



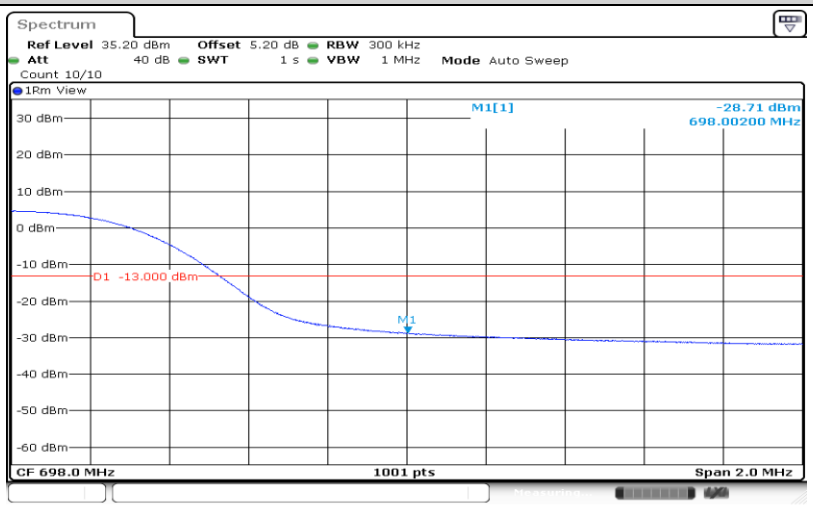
Date: 18.OCT.2019 03:10:56

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



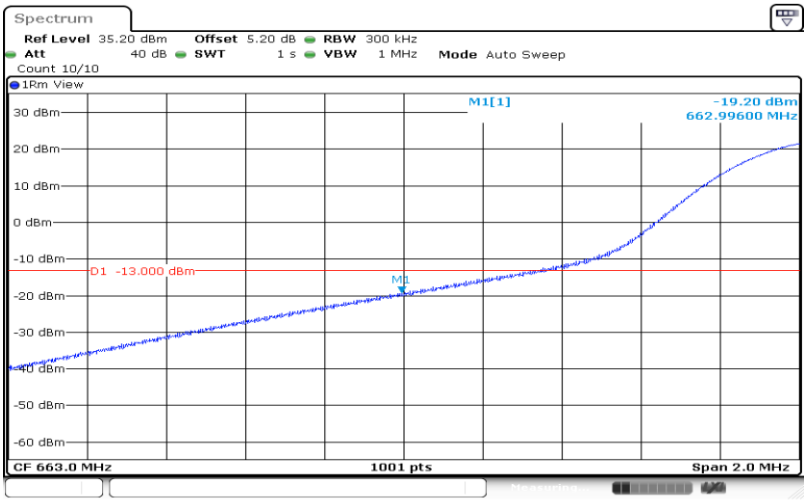
Date: 18.OCT.2019 03:11:40

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



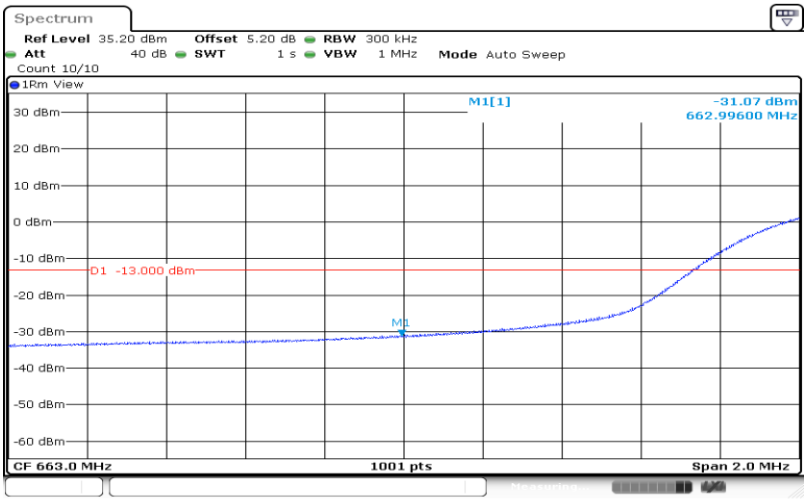
Date: 18.OCT.2019 03:12:18

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



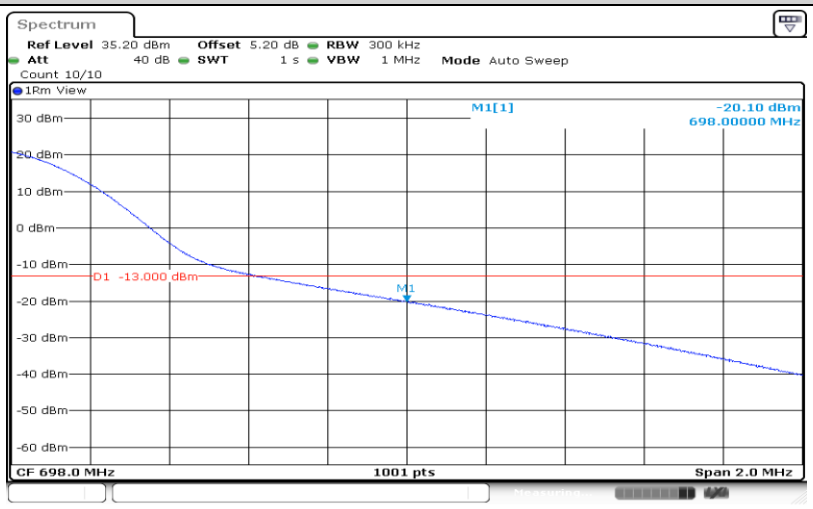
Date: 18.OCT.2019 03:12:43

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



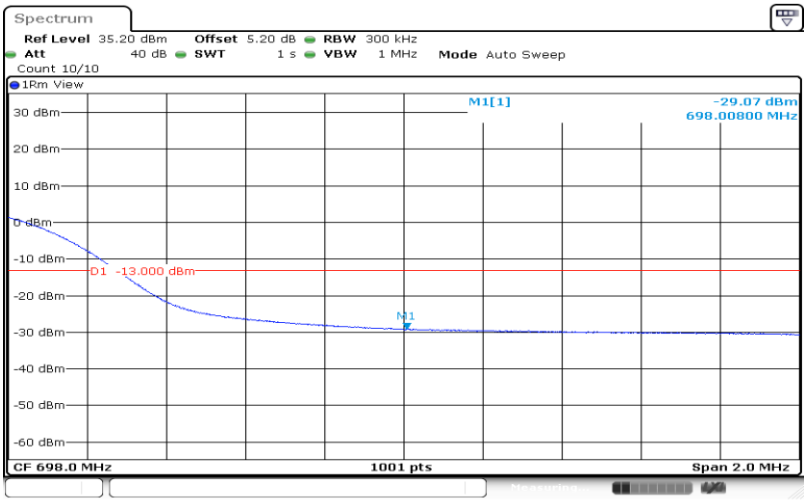
Date: 18.OCT.2019 03:13:21

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



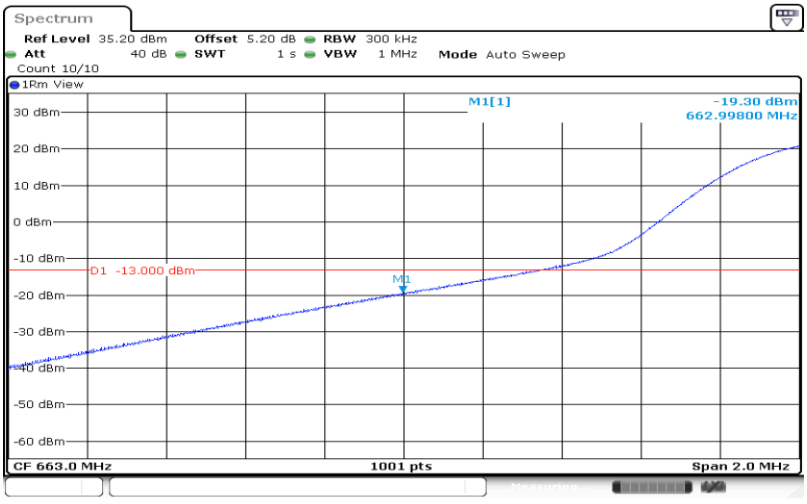
Date: 18.OCT.2019 03:14:05

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



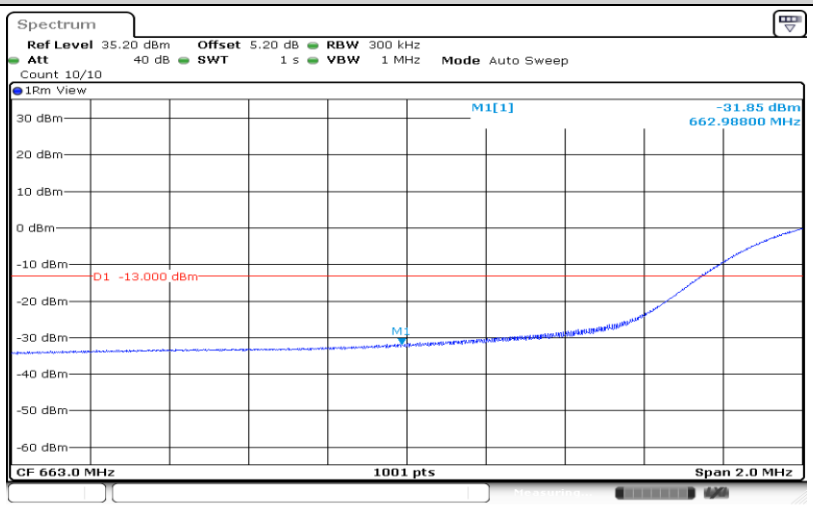
Date: 18.OCT.2019 03:14:43

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



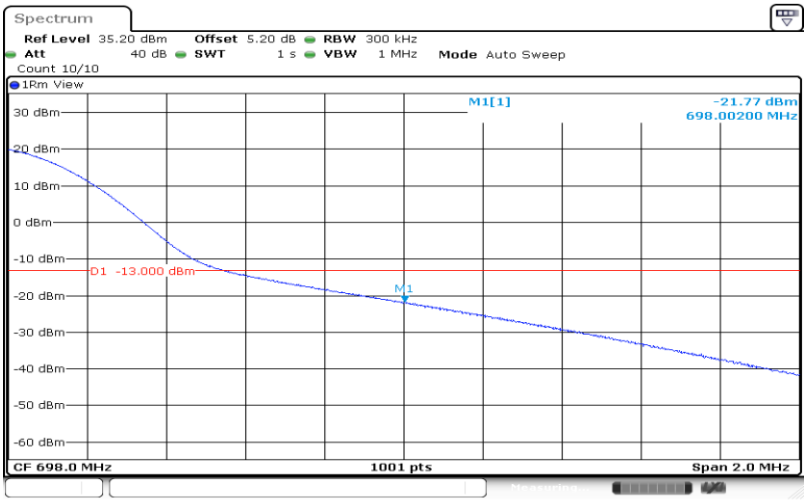
Date: 18.OCT.2019 03:13:02

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



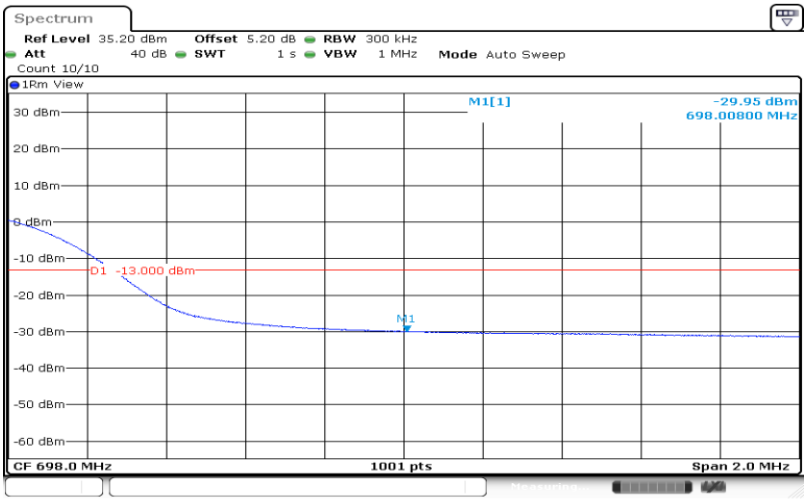
Date: 18.OCT.2019 03:13:41

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



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

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

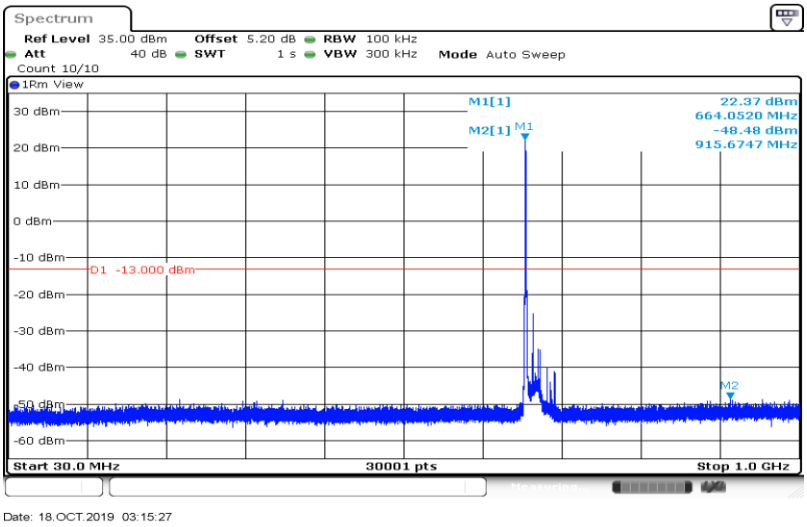
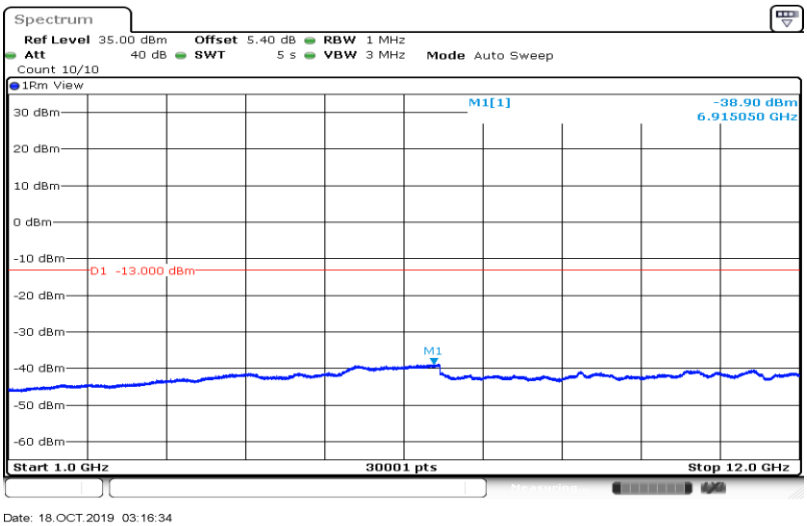


Date: 18.OCT.2019 03:15:03

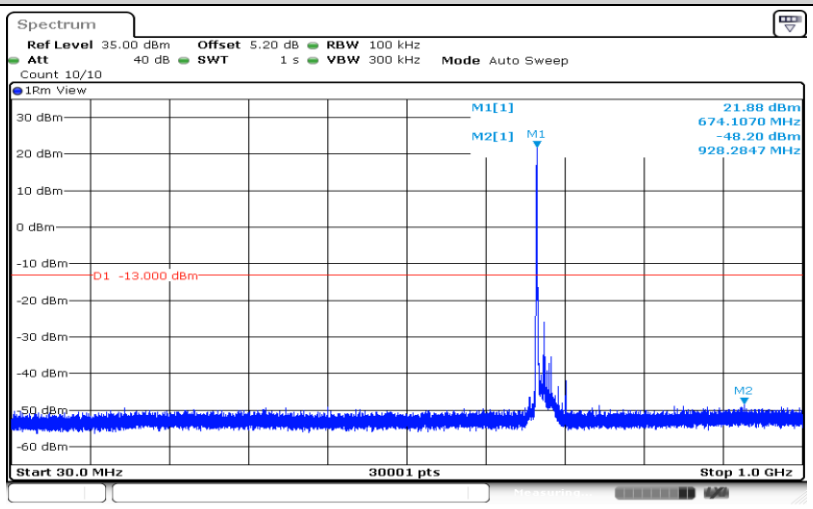
8. Spurious Emission at Antenna Terminal

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 * (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

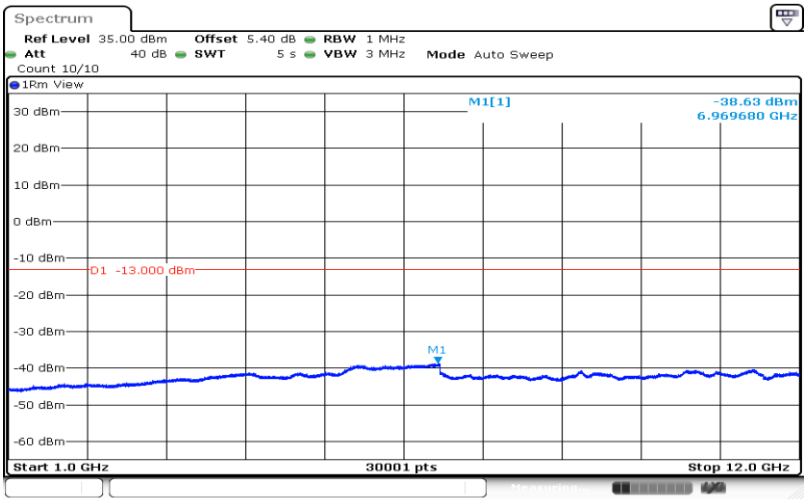
Band71-20MHz-QPSK-133222-1RB#0-Range1:30~1000MHz

Band71-20MHz-QPSK-133222-1RB#0-Range2:1000~12000MHz


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



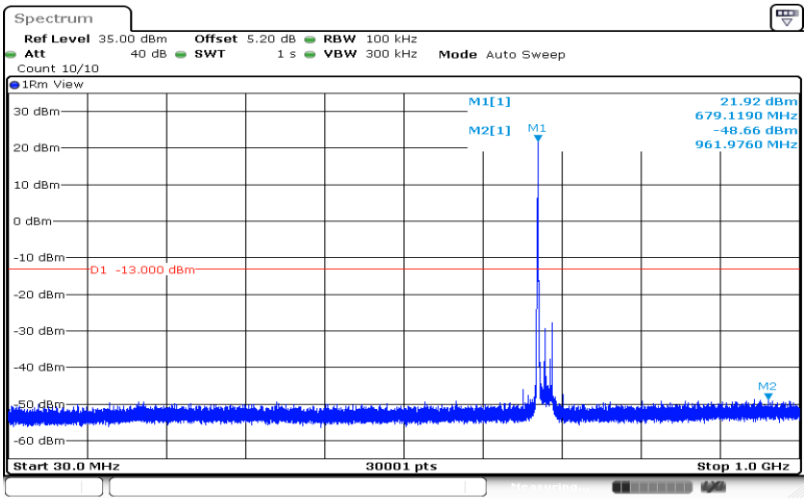
Date: 18.OCT.2019 03:18:20

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



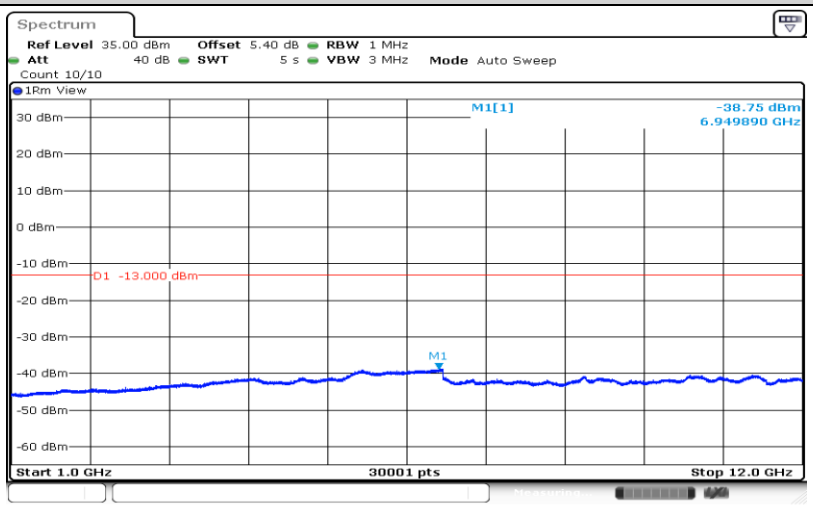
Date: 18.OCT.2019 03:19:28

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

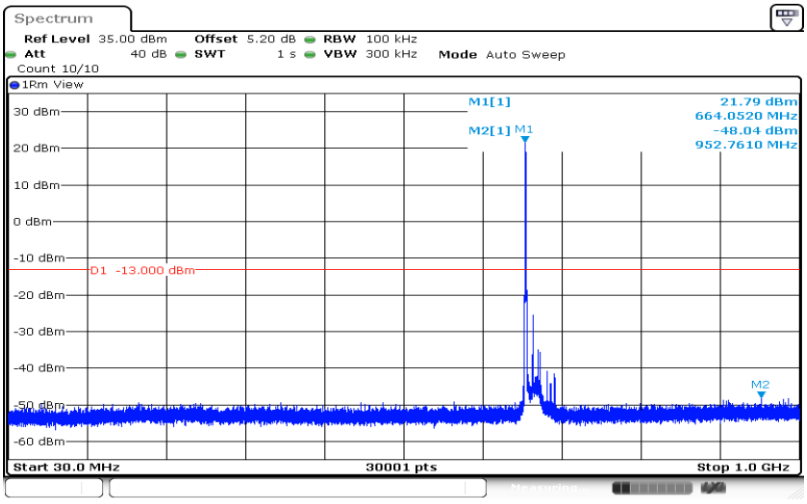


Date: 18.OCT.2019 03:21:14

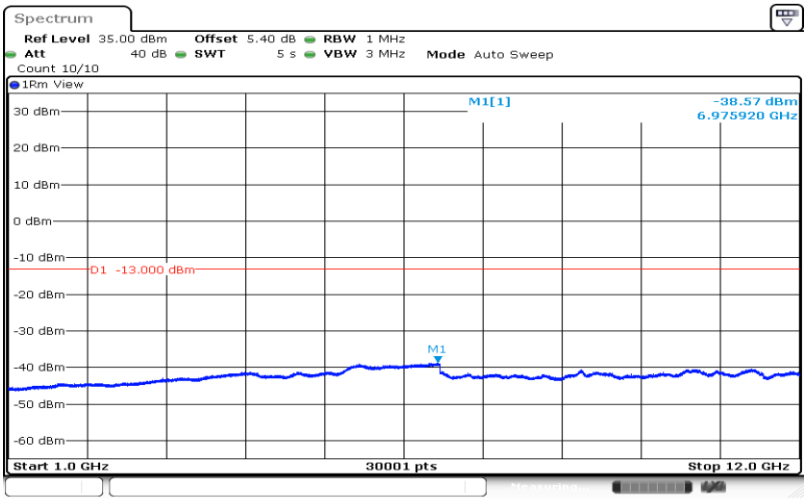
Band71-20MHz-QPSK-133372-1RB#0-Range2:1000~12000MHz



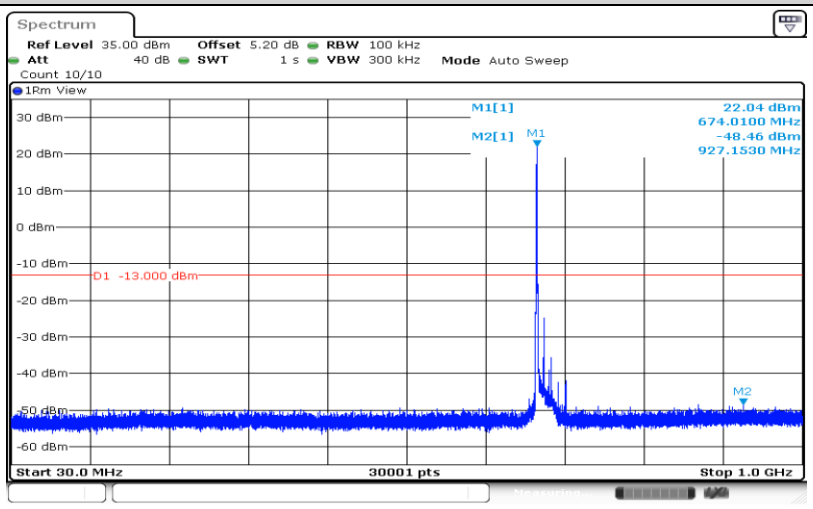
Band71-20MHz-16QAM-133222-1RB#0-Range1:30~1000MHz



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

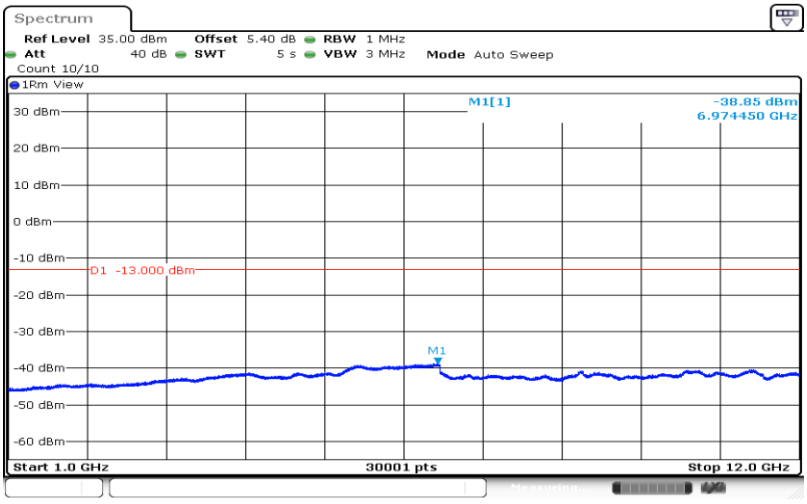


Band71-20MHz-16QAM-133322-1RB#0-Range1:30~1000MHz



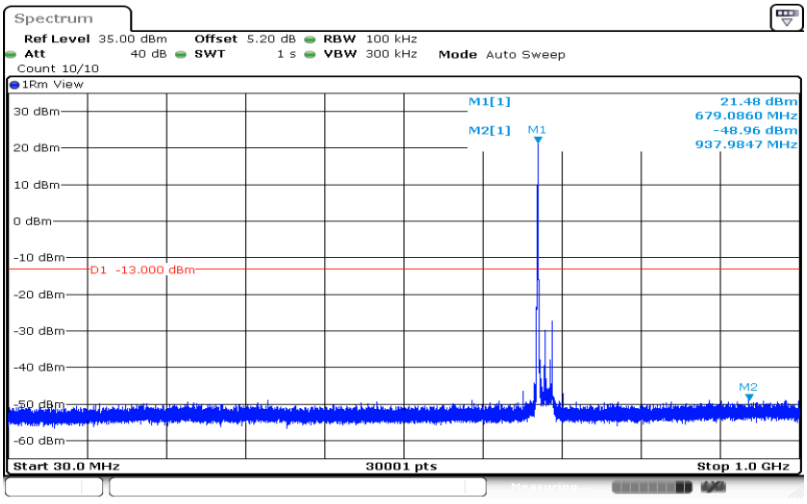
Date: 18.OCT.2019 03:19:47

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



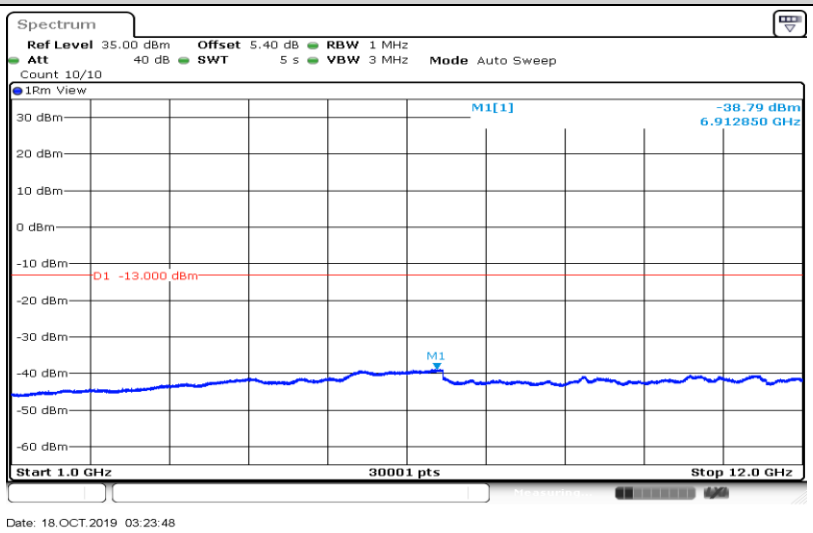
Date: 18.OCT.2019 03:20:54

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



Date: 18.OCT.2019 03:22:41

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



9. Frequency Stability

9.1. Frequency Vs Voltage

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	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

9.2. Frequency Vs Temperature

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	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
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