



Appendix B

E-UTRA Band CA_41C

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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE Band CA_41C

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_41C	100RB+25RB	40240-40357	1RB@0	0RB@0	QPSK	21.75	22.95	33.00	Pass
CA_41C	100RB+25RB	40240-40357	18RB@0	0RB@0	QPSK	20.81	22.01	33.00	Pass
CA_41C	100RB+25RB	40665-40782	1RB@0	0RB@0	QPSK	21.78	22.98	33.00	Pass
CA_41C	100RB+25RB	40665-40782	18RB@0	0RB@0	QPSK	20.69	21.89	33.00	Pass
CA_41C	100RB+25RB	41098-41215	1RB@0	0RB@0	QPSK	21.68	22.88	33.00	Pass
CA_41C	100RB+25RB	41098-41215	18RB@0	0RB@0	QPSK	20.52	21.72	33.00	Pass
CA_41C	25RB+100RB	40357-40240	1RB@0	0RB@0	QPSK	21.74	22.94	33.00	Pass
CA_41C	25RB+100RB	40357-40240	8RB@0	0RB@0	QPSK	21.81	23.01	33.00	Pass
CA_41C	25RB+100RB	40782-40665	1RB@0	0RB@0	QPSK	21.47	22.67	33.00	Pass
CA_41C	25RB+100RB	40782-40665	8RB@0	0RB@0	QPSK	21.51	22.71	33.00	Pass
CA_41C	25RB+100RB	41215-41098	1RB@0	0RB@0	QPSK	21.56	22.76	33.00	Pass
CA_41C	25RB+100RB	41215-41098	8RB@0	0RB@0	QPSK	21.57	22.77	33.00	Pass
CA_41C	100RB+100RB	40240-40438	1RB@0	0RB@0	QPSK	22.00	23.20	33.00	Pass
CA_41C	100RB+100RB	40240-40438	18RB@0	0RB@0	QPSK	21.74	22.94	33.00	Pass
CA_41C	100RB+100RB	40591-40789	1RB@0	0RB@0	QPSK	21.92	23.12	33.00	Pass
CA_41C	100RB+100RB	40591-40789	18RB@0	0RB@0	QPSK	21.83	23.03	33.00	Pass
CA_41C	100RB+100RB	40942-41140	1RB@0	0RB@0	QPSK	21.92	23.12	33.00	Pass
CA_41C	100RB+100RB	40942-41140	18RB@0	0RB@0	QPSK	21.80	23.00	33.00	Pass
CA_41C	100RB+100RB	40438-40240	1RB@0	0RB@0	QPSK	21.69	22.89	33.00	Pass
CA_41C	100RB+100RB	40438-40240	18RB@0	0RB@0	QPSK	21.79	22.99	33.00	Pass
CA_41C	100RB+100RB	40789-40591	1RB@0	0RB@0	QPSK	21.48	22.68	33.00	Pass
CA_41C	100RB+100RB	40789-40591	18RB@0	0RB@0	QPSK	21.56	22.76	33.00	Pass
CA_41C	100RB+100RB	41140-40942	1RB@0	0RB@0	QPSK	21.47	22.67	33.00	Pass
CA_41C	100RB+100RB	41140-40942	18RB@0	0RB@0	QPSK	21.50	22.70	33.00	Pass
CA_41C	100RB+25RB	40240-40357	1RB@0	0RB@0	16QAM	20.73	21.93	33.00	Pass
CA_41C	100RB+25RB	40240-40357	18RB@0	0RB@0	16QAM	20.09	21.29	33.00	Pass
CA_41C	100RB+25RB	40665-40782	1RB@0	0RB@0	16QAM	20.75	21.95	33.00	Pass
CA_41C	100RB+25RB	40665-40782	18RB@0	0RB@0	16QAM	19.70	20.90	33.00	Pass
CA_41C	100RB+25RB	41098-41215	1RB@0	0RB@0	16QAM	20.88	22.08	33.00	Pass
CA_41C	100RB+25RB	41098-41215	18RB@0	0RB@0	16QAM	19.61	20.81	33.00	Pass
CA_41C	25RB+100RB	40357-40240	1RB@0	0RB@0	16QAM	20.68	21.88	33.00	Pass
CA_41C	25RB+100RB	40357-40240	8RB@0	0RB@0	16QAM	20.98	22.18	33.00	Pass
CA_41C	25RB+100RB	40782-40665	1RB@0	0RB@0	16QAM	20.70	21.90	33.00	Pass
CA_41C	25RB+100RB	40782-40665	8RB@0	0RB@0	16QAM	20.65	21.85	33.00	Pass
CA_41C	25RB+100RB	41215-41098	1RB@0	0RB@0	16QAM	20.76	21.96	33.00	Pass
CA_41C	25RB+100RB	41215-41098	8RB@0	0RB@0	16QAM	20.58	21.78	33.00	Pass
CA_41C	100RB+100RB	40240-40438	1RB@0	0RB@0	16QAM	20.99	22.19	33.00	Pass
CA_41C	100RB+100RB	40240-40438	18RB@0	0RB@0	16QAM	20.96	22.16	33.00	Pass
CA_41C	100RB+100RB	40591-40789	1RB@0	0RB@0	16QAM	21.11	22.31	33.00	Pass
CA_41C	100RB+100RB	40591-40789	18RB@0	0RB@0	16QAM	20.83	22.03	33.00	Pass

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CA_41C	100RB+100RB	40942-41140	1RB@0	0RB@0	16QAM	21.10	22.30	33.00	Pass
CA_41C	100RB+100RB	40942-41140	18RB@0	0RB@0	16QAM	20.81	22.01	33.00	Pass
CA_41C	100RB+100RB	40438-40240	1RB@0	0RB@0	16QAM	20.93	22.13	33.00	Pass
CA_41C	100RB+100RB	40438-40240	18RB@0	0RB@0	16QAM	20.85	22.05	33.00	Pass
CA_41C	100RB+100RB	40789-40591	1RB@0	0RB@0	16QAM	20.75	21.95	33.00	Pass
CA_41C	100RB+100RB	40789-40591	18RB@0	0RB@0	16QAM	20.60	21.80	33.00	Pass
CA_41C	100RB+100RB	41140-40942	1RB@0	0RB@0	16QAM	20.74	21.94	33.00	Pass
CA_41C	100RB+100RB	41140-40942	18RB@0	0RB@0	16QAM	20.58	21.78	33.00	Pass
CA_41C	100RB+25RB	40240-40357	1RB@0	0RB@0	64QAM	19.85	21.05	33.00	Pass
CA_41C	100RB+25RB	40240-40357	18RB@0	0RB@0	64QAM	19.19	20.39	33.00	Pass
CA_41C	100RB+25RB	40665-40782	1RB@0	0RB@0	64QAM	19.94	21.14	33.00	Pass
CA_41C	100RB+25RB	40665-40782	18RB@0	0RB@0	64QAM	18.99	20.19	33.00	Pass
CA_41C	100RB+25RB	41098-41215	1RB@0	0RB@0	64QAM	19.99	21.19	33.00	Pass
CA_41C	100RB+25RB	41098-41215	18RB@0	0RB@0	64QAM	18.54	19.74	33.00	Pass
CA_41C	25RB+100RB	40357-40240	1RB@0	0RB@0	64QAM	19.92	21.12	33.00	Pass
CA_41C	25RB+100RB	40357-40240	8RB@0	0RB@0	64QAM	20.15	21.35	33.00	Pass
CA_41C	25RB+100RB	40782-40665	1RB@0	0RB@0	64QAM	19.81	21.01	33.00	Pass
CA_41C	25RB+100RB	40782-40665	8RB@0	0RB@0	64QAM	19.75	20.95	33.00	Pass
CA_41C	25RB+100RB	41215-41098	1RB@0	0RB@0	64QAM	19.79	20.99	33.00	Pass
CA_41C	25RB+100RB	41215-41098	8RB@0	0RB@0	64QAM	19.81	21.01	33.00	Pass
CA_41C	100RB+100RB	40240-40438	1RB@0	0RB@0	64QAM	19.91	21.11	33.00	Pass
CA_41C	100RB+100RB	40240-40438	18RB@0	0RB@0	64QAM	20.10	21.30	33.00	Pass
CA_41C	100RB+100RB	40591-40789	1RB@0	0RB@0	64QAM	20.20	21.40	33.00	Pass
CA_41C	100RB+100RB	40591-40789	18RB@0	0RB@0	64QAM	19.88	21.08	33.00	Pass
CA_41C	100RB+100RB	40942-41140	1RB@0	0RB@0	64QAM	20.38	21.58	33.00	Pass
CA_41C	100RB+100RB	40942-41140	18RB@0	0RB@0	64QAM	19.72	20.92	33.00	Pass
CA_41C	100RB+100RB	40438-40240	1RB@0	0RB@0	64QAM	20.08	21.28	33.00	Pass
CA_41C	100RB+100RB	40438-40240	18RB@0	0RB@0	64QAM	20.11	21.31	33.00	Pass
CA_41C	100RB+100RB	40789-40591	1RB@0	0RB@0	64QAM	19.74	20.94	33.00	Pass
CA_41C	100RB+100RB	40789-40591	18RB@0	0RB@0	64QAM	19.78	20.98	33.00	Pass
CA_41C	100RB+100RB	41140-40942	1RB@0	0RB@0	64QAM	19.96	21.16	33.00	Pass
CA_41C	100RB+100RB	41140-40942	18RB@0	0RB@0	64QAM	19.63	20.83	33.00	Pass

Note:

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

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b: SGP=Signal Generator Level

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2 Peak-to-Average Ratio

Part I - Test Results

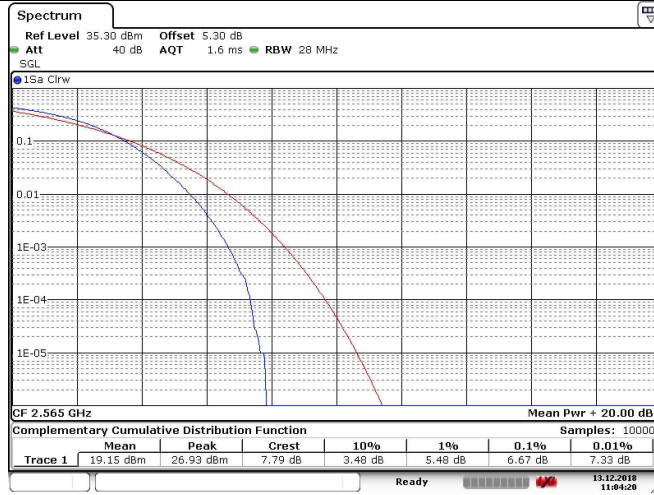
Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_41C	QPSK	100RB+100RB	40240+40438	100RB@0	100RB@0	6.67	13	PASS
CA_41C	QPSK	100RB+100RB	40591+40789	100RB@0	100RB@0	6.70	13	PASS
CA_41C	QPSK	100RB+100RB	40942+41140	100RB@0	100RB@0	7.30	13	PASS
CA_41C	QPSK	100RB+100RB	40438+40240	100RB@0	100RB@0	6.49	13	PASS
CA_41C	QPSK	100RB+100RB	40789+40591	100RB@0	100RB@0	6.55	13	PASS
CA_41C	QPSK	100RB+100RB	41140+40942	100RB@0	100RB@0	6.58	13	PASS
CA_41C	16QAM	100RB+100RB	40240+40438	100RB@0	100RB@0	6.84	13	PASS
CA_41C	16QAM	100RB+100RB	40591+40789	100RB@0	100RB@0	7.54	13	PASS
CA_41C	16QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	6.99	13	PASS
CA_41C	16QAM	100RB+100RB	40438+40240	100RB@0	100RB@0	7.57	13	PASS
CA_41C	16QAM	100RB+100RB	40789+40591	100RB@0	100RB@0	7.68	13	PASS
CA_41C	16QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	7.54	13	PASS
CA_41C	64QAM	100RB+100RB	40240+40438	100RB@0	100RB@0	7.88	13	PASS
CA_41C	64QAM	100RB+100RB	40591+40789	100RB@0	100RB@0	7.10	13	PASS
CA_41C	64QAM	100RB+100RB	40942+41140	100RB@0	100RB@0	7.01	13	PASS
CA_41C	64QAM	100RB+100RB	40438+40240	100RB@0	100RB@0	6.96	13	PASS
CA_41C	64QAM	100RB+100RB	40789+40591	100RB@0	100RB@0	7.13	13	PASS
CA_41C	64QAM	100RB+100RB	41140+40942	100RB@0	100RB@0	7.71	13	PASS

Part II - Test Plots

2.1 For LTE

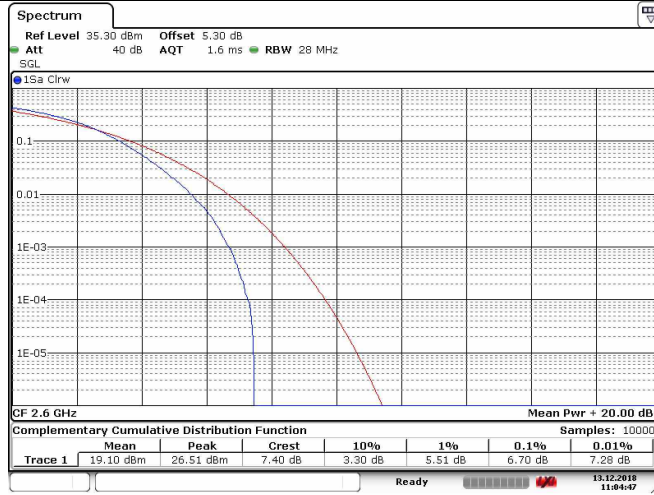
2.1.1 Test Band = LTE Band CA_41C

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Date: 13.DEC.2018 11:04:21

CA_41C_QPSK_100RB+100RB_40591+40789_PCC:100RB@0_SCC:100RB@0



Date: 13.DEC.2018 11:04:47

CA_41C_QPSK_100RB+100RB_40942+41140_PCC:100RB@0_SCC:100RB@0



Date: 13.DEC.2018 11:08:59

CA_41C_QPSK_100RB+100RB_40438+40240_PCC:100RB@0_SCC:100RB@0



Date: 13.DEC.2018 11:02:19

CA_41C_QPSK_100RB+100RB_40789+40591_PCC:100RB@0_SCC:100RB@0



Date: 13.DEC.2018 11:07:11

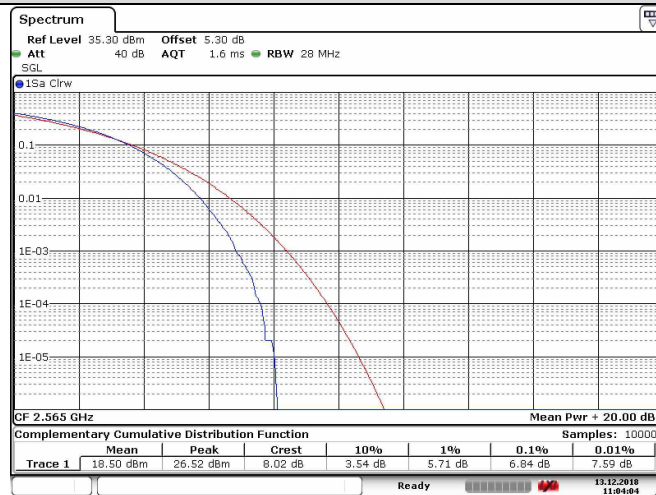
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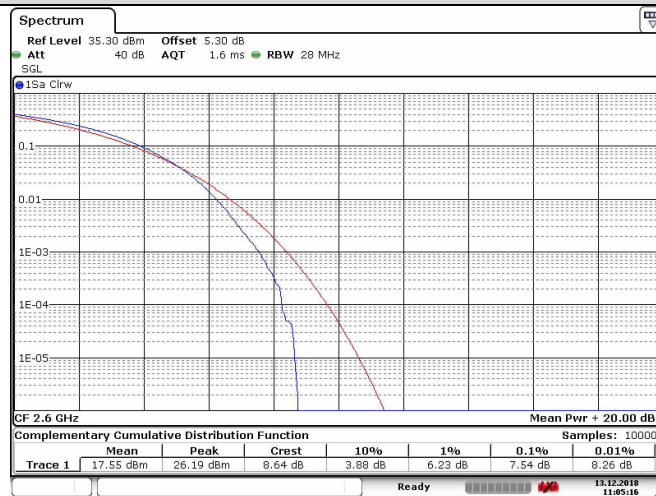
Date: 13.DEC.2018 11:07:55

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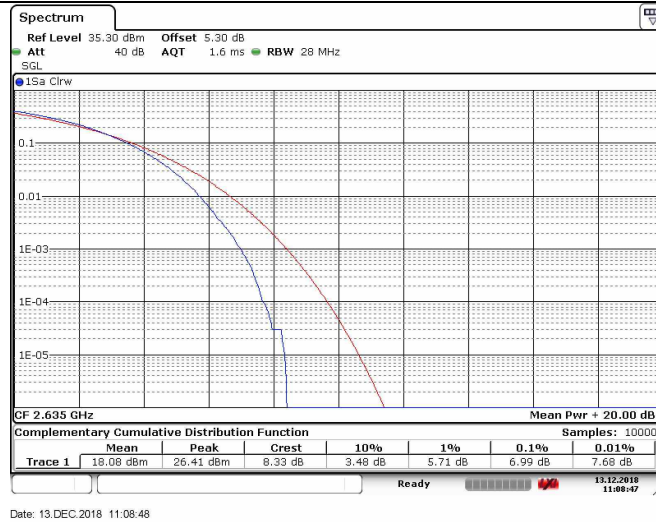
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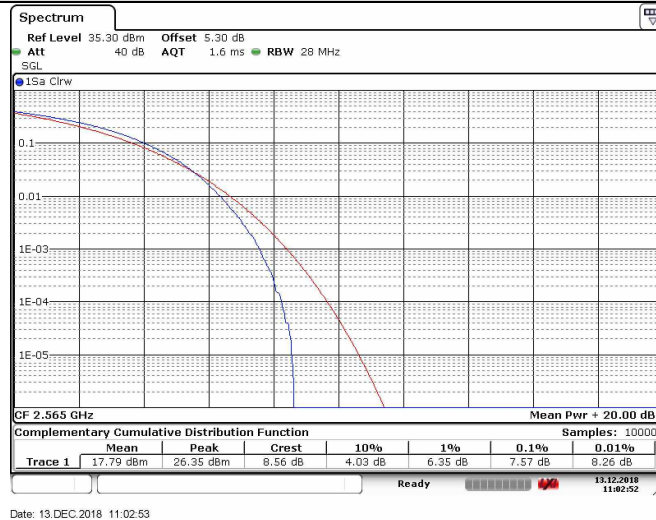
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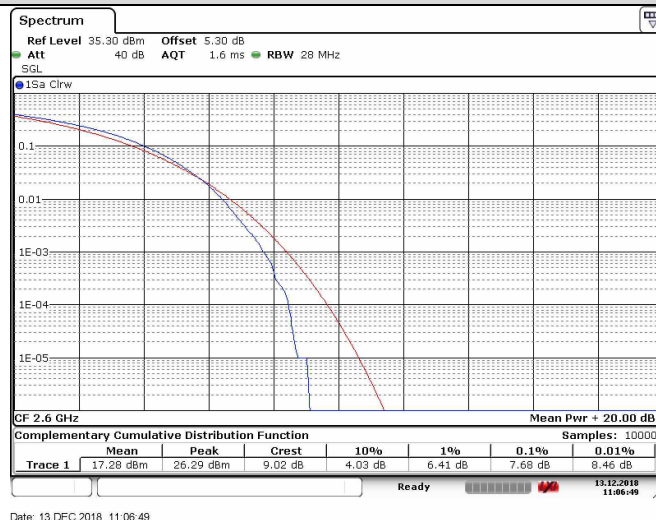
Date: 13.DEC.2018 11:08:48

CA_41C_16QAM_100RB+100RB_40438+40240_PCC:100RB@0_SCC:100RB@0



Date: 13.DEC.2018 11:02:53

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Date: 13.DEC.2018 11:06:49

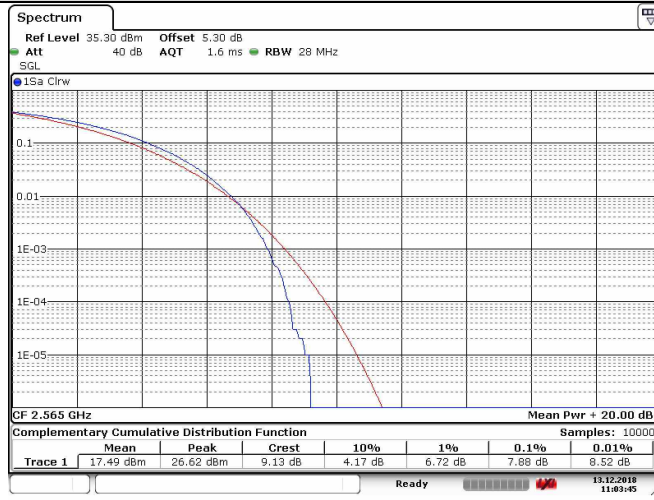
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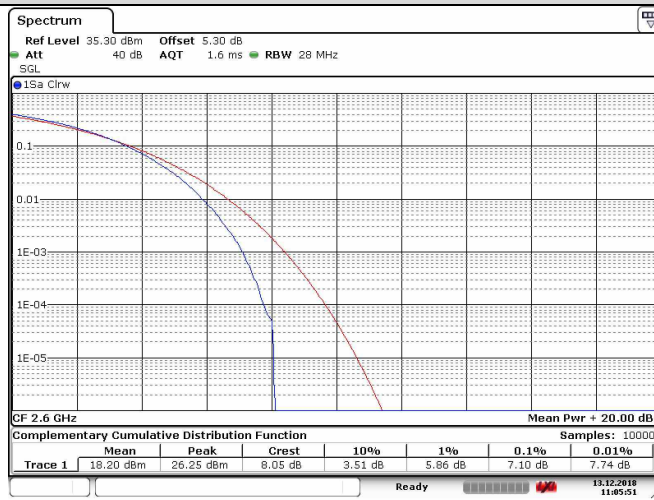
Date: 13.DEC.2018 11:08:10

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Date: 13.DEC.2018 11:03:45

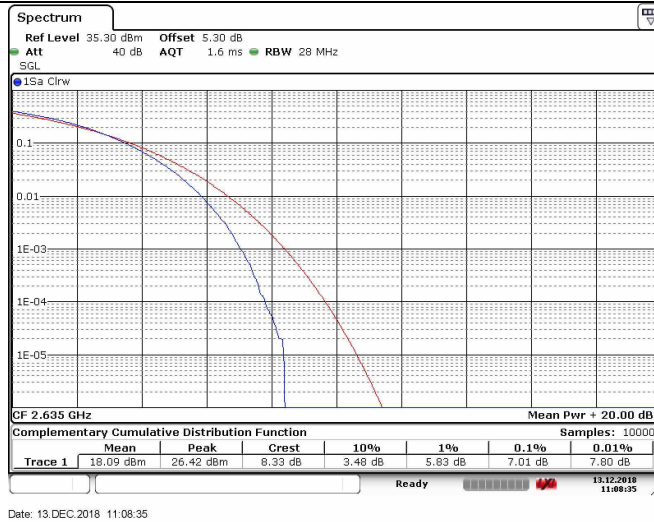
CA_41C_64QAM_100RB+100RB_40591+40789_PCC:100RB@0_SCC:100RB@0



Date: 13.DEC.2018 11:05:52

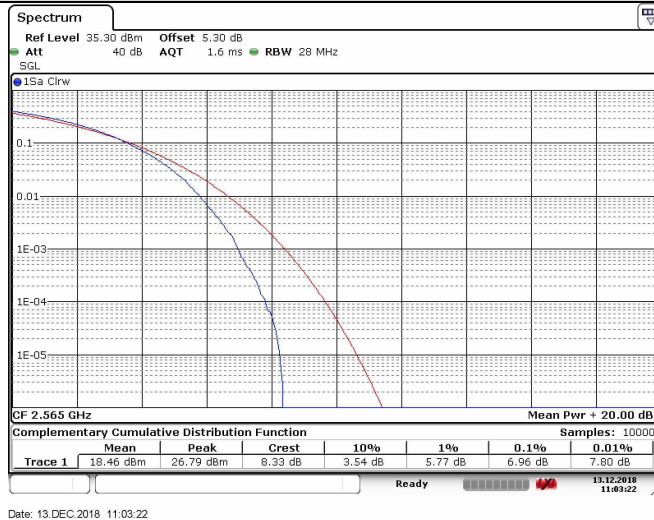
CA_41C_64QAM_100RB+100RB_40942+41140_PCC:100RB@0_SCC:100RB@0

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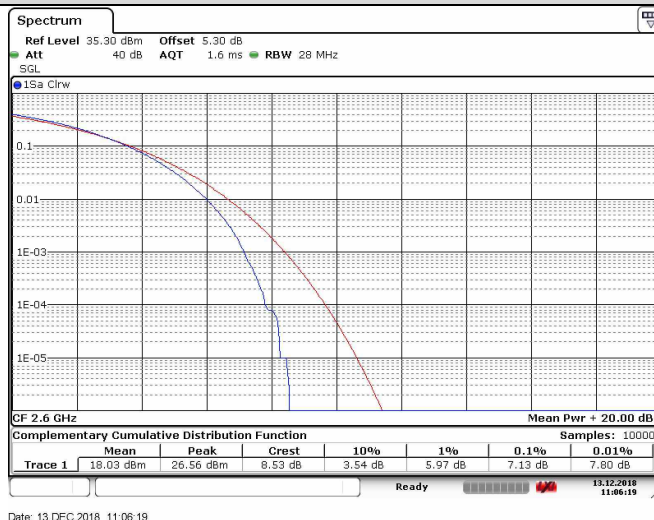
Date: 13.DEC.2018 11:08:35

CA_41C_64QAM_100RB+100RB_40438+40240_PCC:100RB@0_SCC:100RB@0



Date: 13.DEC.2018 11:03:22

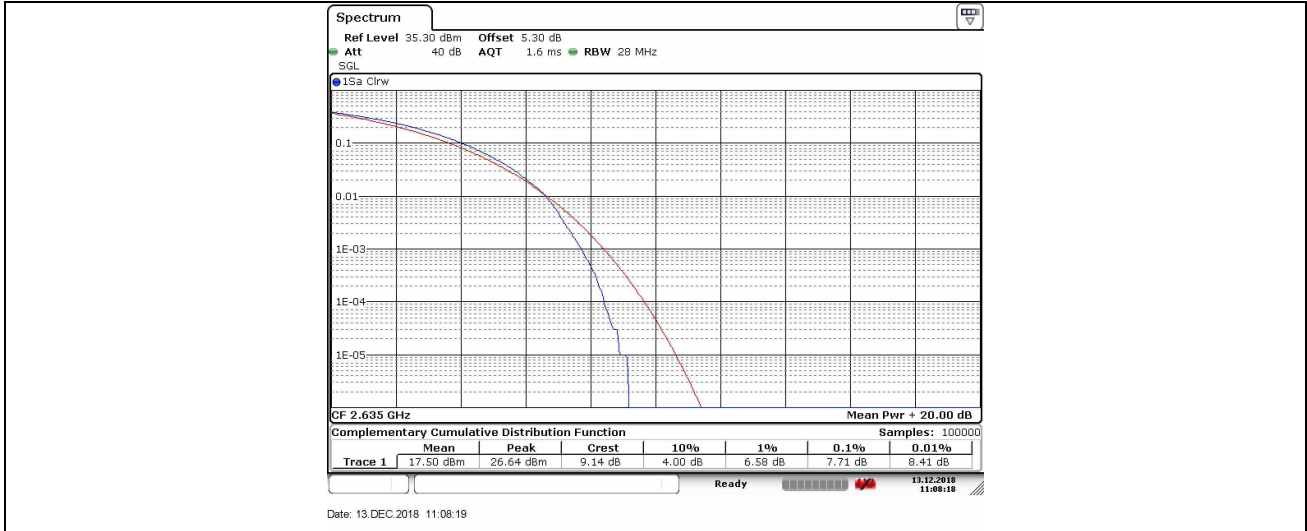
CA_41C_64QAM_100RB+100RB_40789+40591_PCC:100RB@0_SCC:100RB@0



Date: 13.DEC.2018 11:06:19

CA_41C_64QAM_100RB+100RB_41140+40942_PCC:100RB@0_SCC:100RB@0

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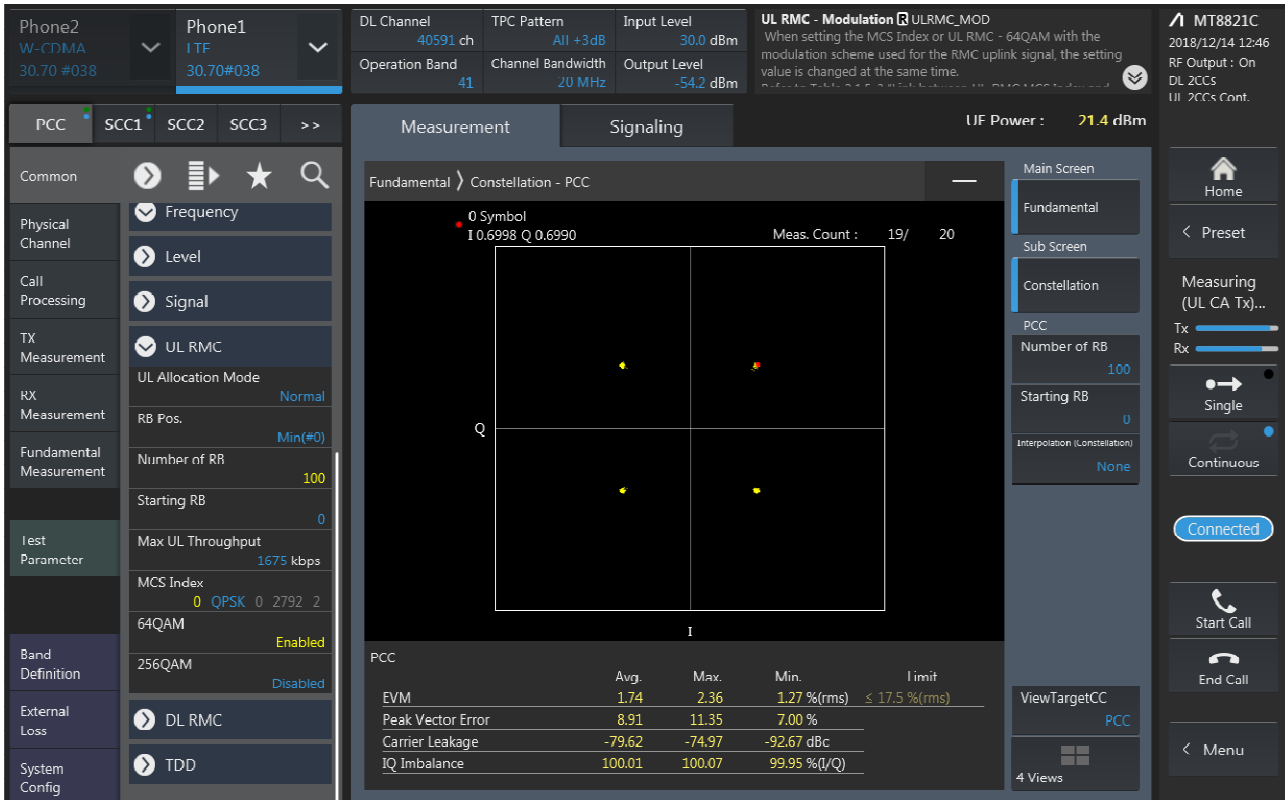
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_41C

3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

3.1.1.1.1 Test Channel = 40591+40789



3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB

3.1.1.2.1 Test Channel = 40591+40789

DL Channel: 40591 ch
TPC Pattern: All +3 dB
Input Level: 30.0 dBm
UL RMC - Modulation: UL RMC_MOD
When setting the MCS Index or UL RMC - 64QAM with the modulation scheme used for the RMC uplink signal, the setting value is changed at the same time.

Operation Band: 41
Channel Bandwidth: 20 MHz
Output Level: -54.2 dBm

UL Power: 21.4 dBm

Constellation - PCC
 0 Symbol
 I -0.9440 Q -0.3199
 Meas. Count : 12/ 20

PCC	Avg.	Max.	Min.	Limit
FVM	1.55	1.91	1.30 %(rms)	< 12.5 %(rms)
Peak Vector Error	11.64	17.07	8.43 %	
Carrier Leakage	-78.78	-71.08	-95.19 dBc	
IQ Imbalance	99.99	100.03	99.96 %(I/Q)	

3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB

3.1.1.3.1 Test Channel = 40591+40789

DL Channel 40591 ch
TPC Pattern All +3dB
Input Level 30.0 dBm
UL Channel R ULCH-AN
 This sets the uplink channel. When changing the setting values of the uplink channel, the downlink channel, uplink frequency and Frame Structure are changed. For more details, see the Settings of Measurement.

Operation Band 41
Channel Bandwidth 20 MHz
Output Level -54.2 dBm

UL Power: 16.0 dBm

Measurement | **Signaling**

Fundamental > Constellation

0 Symbol
 I -0.4774 Q -1.0794
 Meas. Count: 1/ 1

PCC

	Avg.	Max.	Min.
FVM	1.49	1.49	1.49 %(rms)
Peak Vector Error	13.37	13.37	13.37 %
Carrier Leakage	-61.19	-61.19	-61.19 dBc
IQ Imbalance	99.97	99.97	99.97 %(I/Q)

Test Parameter
 Max UL Throughput: 17526 kbps
 MCS Index: 21 64QAM 19 43816 8
 64QAM: Enabled
 256QAM: Disabled

System Config
 DL RMC: []
 TDD: []

MT8821C
 2018/12/14 13:26
 RF Output: On
 DL 2CCs
 UL 2CCs Cont.

Connected