

MEASUREMENT REPORT

FCC PART 24 & 27 LTE

FCC ID: HD5-EDA50211

APPLICANT: Honeywell International Inc
Honeywell Sensing & Productivity Solutions

Application Type: Certification

Product: Mobile Computer

Model No.: EDA50-211

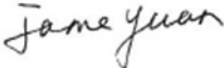
Brand Name: Honeywell

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

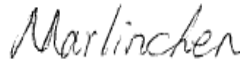
FCC Rule Part(s): Part 2, Part 24 Subpart E, Part 27 Subpart L,
Part 27 Subpart M

Test Procedure(s): ANSI/TIA-603-D-2010, KDB 971168 D01v02r02
KDB 412172 D01v01r01

Test Date: May 04 ~ June 02, 2017

Reviewed By : 

(Jame Yuan)

Approved By : 

(Marlin Chen)



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
1704RSU05708	Rev. 01	Initial report	06-20-2017	Invalid
1704RSU05708	Rev. 01	Revised some description	06-22-2017	Valid

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§2.1033 General Information

Applicant:	Honeywell International Inc Honeywell Sensing and Productivity Solutions
Applicant Address:	9680 Old Bailes Rd. Fort Mill, SC 29707 United States
Manufacturer:	Honeywell International Inc Honeywell Sensing and Productivity Solutions
Manufacturer Address:	9680 Old Bailes Rd. Fort Mill, SC 29707 United States
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
MRT Registration No.:	809388
FCC Rule Part(s):	Part 24 Subpart E, Part 27 Subpart L & M
Model No.:	EDA50-211
FCC ID:	HD5-EDA50211
Test Device Serial No.:	N/A ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 809388) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-4179, G-814, C-4664, T-2206) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications and Radio testing for FCC, Industry Canada, EU and TELEC Rules.



1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2009 on September 30, 2013.



2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	Mobile Computer
Model No.:	EDA50-211
Brand Name:	Honeywell
Hardware Version:	V2.0
Software Version:	205.01.00.0006.eng
IMEI:	356074080038511
Wi-Fi Specification:	802.11a/b/g/n
Bluetooth Specification:	v4.0 dual mode
GSM Operation Band (s):	E-GSM 850 / DCS 1900
WCDMA Operation Band (s):	Band II / V
LTE Operation Band (s):	FDD Band 2/4/7
NFC:	13.56MHz
GPS:	1575.42MHz
Components	
Adapter	Model No.: ADS-12B-06 05010E Input Power: 100 - 240V ~ 50/60Hz, Max. 0.3A Output Power: 5VDC 2.0A

2.2. Product Specification Subjective to this Report

Operational Band	LTE Band 2, LTE Band 4, LTE Band 7
Tx Frequency	LTE Band 2: 1850.7MHz ~ 1909.3MHz LTE Band 4: 1710.7MHz ~ 1754.3MHz LTE Band 7: 2502.5MHz ~ 2567.5MHz
Rx Frequency	LTE Band 2: 1930.7MHz ~ 1989.3MHz LTE Band 4: 2110.7MHz ~ 2154.3MHz LTE Band 7: 2622.5MHz ~ 2687.5MHz
Bandwidth	LTE Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 7: 5MHz / 10MHz / 15MHz / 20MHz
Type of Modulation	QPSK / 16-QAM
Antenna Type	FPC Antenna
Antenna Gain	Band 2: 0.6dBi; Band 4: 0.4dBi; Band 7: 2.3dBi;

2.3. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS), 5GHz WLAN (UNII), Bluetooth (v4.0 dual mode), NFC, GSM 850/1900 WCDMA Band II/V, LTE FDD Band 2/4/7

2.4. Test Configuration

The **Mobile Computer** was tested per the guidance of ANSI/TIA-603-D-2010 and KDB 971168 D01v02r02. See section 3.0 of this report for a description of the radiated and antenna port conducted emissions tests.

2.5. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

3. DESCRIPTION OF TEST

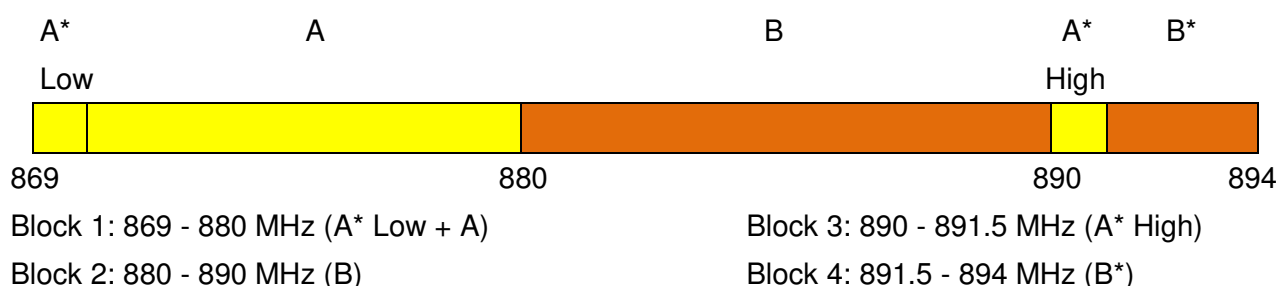
3.1. Evaluation Procedure

The measurement procedures described in the “Land Mobile FM or PM - Communications Equipment - Measurements and Performance Standards” (ANSI/TIA-603-D-2010) and “Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems” (KDB 971168) were used in the measurement of the **Mobile Computer**.

Deviation from measurement procedure.....None

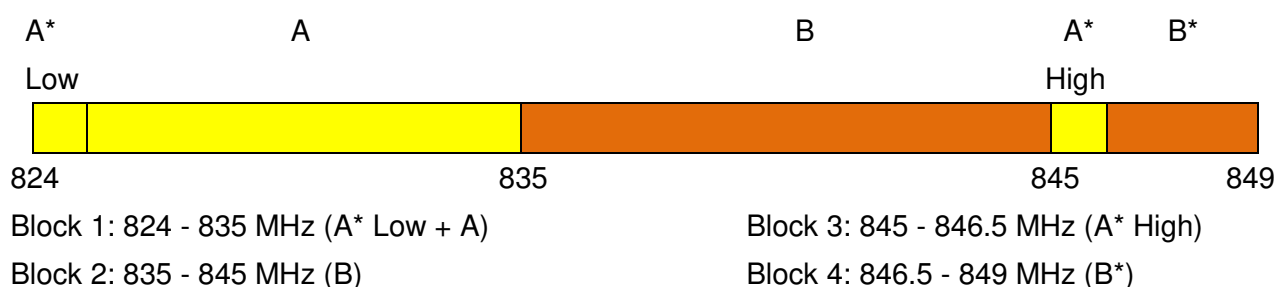
3.2. Cellular - Base Frequency Blocks

§22.905



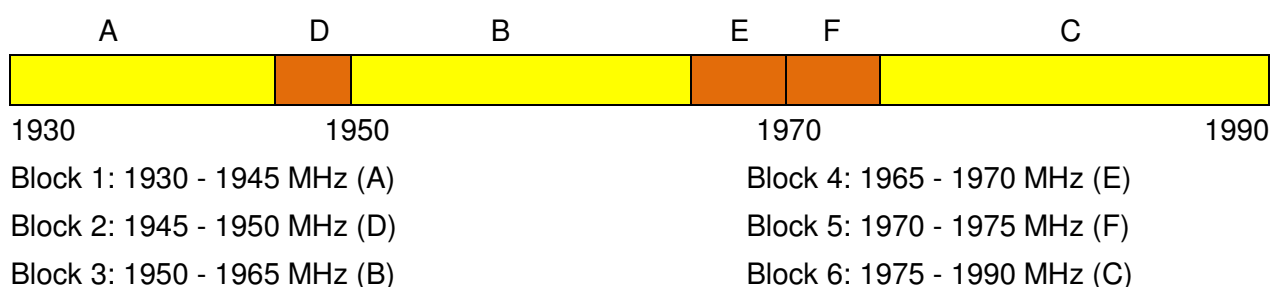
3.3. Cellular - Mobile Frequency Blocks

§22.905



3.4. PCS - Base Frequency Blocks

§24.229



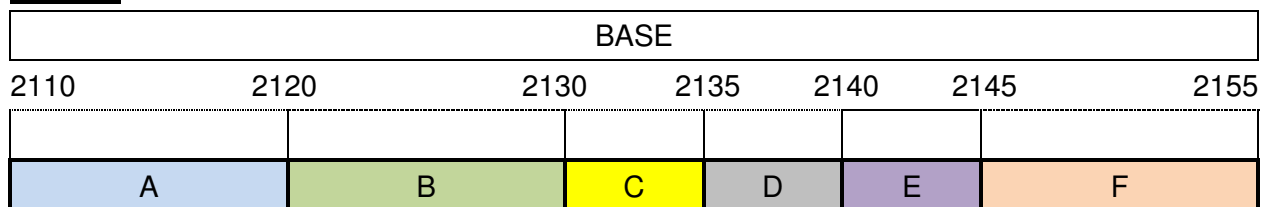
3.5. PCS - Mobile Frequency Blocks

§24.229



3.6. AWS - Base Frequency Blocks

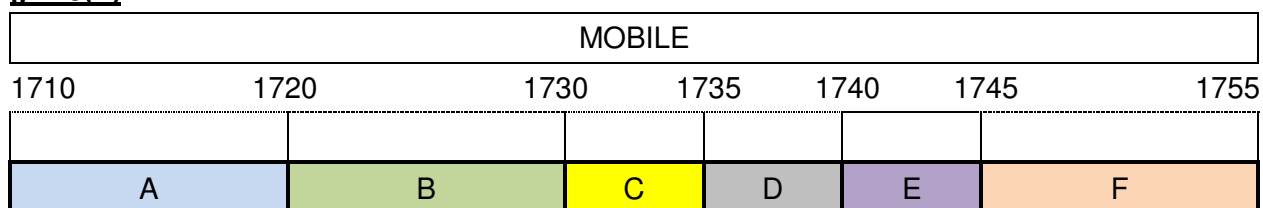
§27.5(h)



Block 1: 2110 - 2120 MHz (A)	Block 4: 2135 - 2140 MHz (D)
Block 2: 2120 - 2130 MHz (B)	Block 5: 2140 - 2145 MHz (E)
Block 3: 2130 - 2135 MHz (C)	Block 6: 2145 - 2155 MHz (F)

3.7. AWS - Mobile Frequency Blocks

§27.5(h)



Block 1: 1710 - 1720 MHz (A)	Block 4: 1735 - 1740 MHz (D)
Block 2: 1720 - 1730 MHz (B)	Block 5: 1740 - 1745 MHz (E)
Block 3: 1730 - 1735 MHz (C)	Block 6: 1745 - 1755 MHz (F)

3.8. Radiated Power and Radiated Spurious Emissions

§2.1053 § 24.238(a) § 27.50(g) § 27.50(h) § 27.53(m)

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurement and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 80cm high PVC support structure is placed on top of the turntable.

The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168.

Per the guidance of ANSI/TIA-603-D-2010, a half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]}$$

Where, P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10 \cdot \log_{10}(\text{Power [Watts]})$.

4. TEST EQUIPMENT CALIBRATION DATE

Radiated Emissions - AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9038A	MRTSUE06125	1 year	2017/08/19
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2017/06/21
Radio Communication Tester	R&S	CMU 200	MRTSUE06009	1 year	2017/11/10
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2018/02/14
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2018/04/15
Loop Antenna	Schwarzbeck	FMZB1519	MRTSUE06025	1 year	2017/11/21
TRILOG Antenna	Schwarzbeck	VULB9168	MRTSUE06172	1 year	2017/11/19
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06171	1 year	2017/11/19
Broadband Horn Antenna	Schwarzbeck	BBHA9170	MRTSUE06024	1 year	2017/12/30
Digital Thermometer & Hygrometer	Minggao	N/A	MRTSUE06170	1 year	2017/12/14
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2017/05/10

Conducted Test Equipment - TR3

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2018/04/25
Radio Communication Tester	R&S	CMU 200	MRTSUE06009	1 year	2017/11/10
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2018/02/14
DC Power Supply	GWINSTEK	DPS-3303C	MRTSUE06064	N/A	N/A
Programmable Temperature & Humidity Chamber	BAOYT	BYH-1500L	MRTSUE06051	1 year	2017/12/06
Temperature/Humidity Meter	Yuhuaze	HTC-2	MRTSUE06180	1 year	2017/12/20

Software	Version	Function
e3	V8.3.5	EMI Test Software

5. SAMPLE CALCULATIONS

QPSK Emission Designator

Emission Designator = 250KGXW

LTE BW = 250 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

16-QAM Emission Designator

Emission Designator = 250KG7W

LTE BW = 250 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

Spurious Radiated Emission

Example: Mid. CHLTE Mode 2nd Harmonic (1564 MHz)

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0dBm.

The gain of the substituted antenna is 8.1dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1564MHz. So 6.1 dB is added to the signal generator reading of -30.9dBm yielding -24.80dBm. The fundamental EIRP was 25.50dBm so this harmonic was 25.50dBm - (-24.80).

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement - SR2
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 150kHz~30MHz: 3.46dB
Radiated Emission Measurement - AC2
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 9kHz ~ 1GHz: 4.18dB 1GHz ~ 25GHz: 4.76dB

7. TEST RESULT

7.1. Summary

Company Name: Honeywell International Inc
FCC ID: Honeywell Sensing & Productivity Solutions
FCC Classification: HD5-EDA50211
FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
Mode(s): LTE

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	Occupied bandwidth	N/A	Conducted	Pass	Section 7.2
2.1051 & 24.238(a) & 27.53(h)	Band Edge / Conducted Spurious Emissions	> 43 + log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions		Pass	Section 7.3 Section 7.4
27.53(m)(4)		> 55 + log ₁₀ (P[Watts]) at Band Edge and for all out-of-band emissions			
24.232(d)	Peak-Average Ratio	< 13 dB		Pass	Section 7.5
2.1046	Transmitter Conducted Output Power	N/A		Pass	Section 7.6
24.232(c), 27.50(h)(2)	Equivalent Isotropic Radiated Power (LTE Band 2 & 7)	< 2 Watts max. EIRP		Pass	
27.50(d)(4)	Equivalent Isotropic Radiated Power (LTE Band 4)	< 1 Watts max. EIRP		Pass	
2.1055 & 24.235 & 27.54	Frequency Stability	fundamental emissions stay within authorized frequency block (Part 24, 27)		Pass	Section 7.8
2.1053, 24.238(a), 27.53(g), 27.53(h)	Undesirable Emissions	> 43 + log ₁₀ (P[Watts]) for all out-of-band emissions	Radiated	Pass	Section 7.7
2.1053, 27.53(m)(4)		> 55 + log ₁₀ (P[Watts]) for all out-of-band emissions			

Notes:

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. The analyzer plots shown in Section 7.2, 7.3, 7.4, 7.5 were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.

7.2. Occupied Bandwidth

7.2.1. Test Limit

N/A

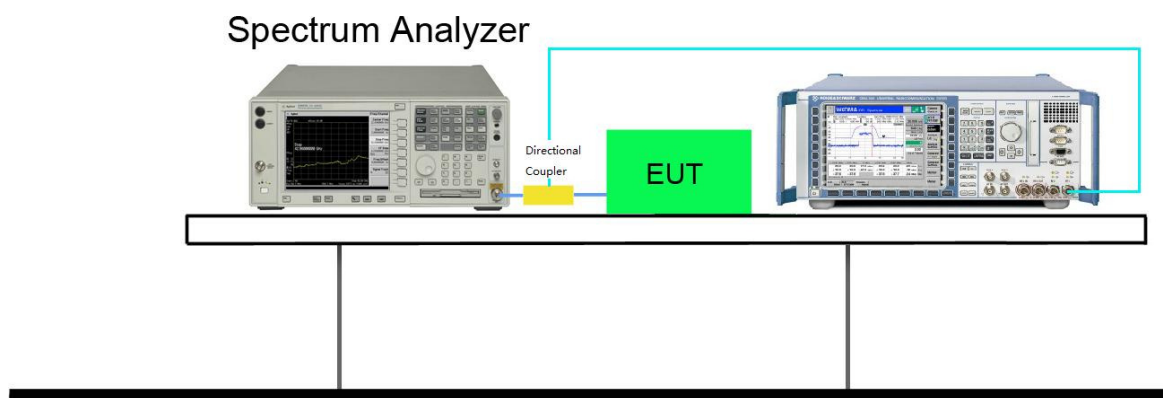
7.2.2. Test Procedure used

KDB 971168 D01v02r02 - Section 4.1 & ANSI/TIA-603-D-2010

7.2.3. Test Setting

1. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
The span range for the spectrum analyzer shall be between two and five times the anticipated OBW. RBW = approximately 1% of the emission bandwidth.
2. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
3. Set the detection mode to peak, and the trace mode to max hold.
4. Use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

7.2.4. Test Setup



7.2.5. Test Result

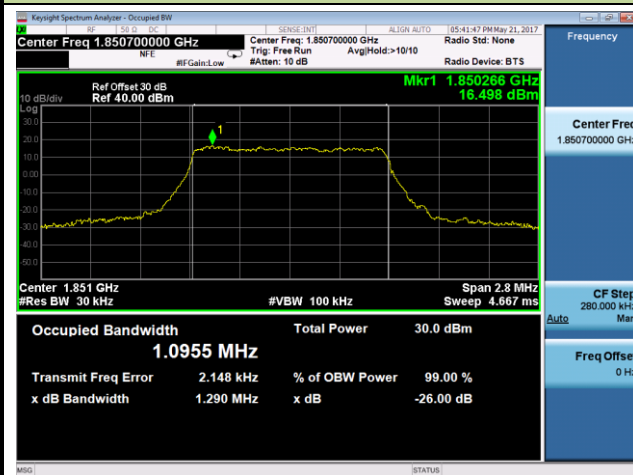
Product	Mobile Computer	Temperature	25°C
Test Engineer	Polly Zong	Relative Humidity	52%
Test Site	TR3	Test Date	2017/05/23

LTE Band 2 99% Occupied Bandwidth (MHz)												
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16-QAM	QPSK	16-QAM	QPSK	16-QAM	QPSK	16-QAM	QPSK	16-QAM	QPSK	16-QAM
Low CH	1.10	1.10	2.73	2.73	4.51	4.50	9.10	9.07	13.48	13.47	17.95	17.97
Mid. CH	1.11	1.10	2.73	2.73	4.51	4.52	9.04	9.06	13.46	13.47	18.00	17.96
High CH	1.10	1.10	2.75	2.74	4.52	4.53	9.08	9.10	13.53	13.53	17.97	17.95
LTE Band 4 99% Occupied Bandwidth (MHz)												
Low CH	1.10	1.10	2.75	2.75	4.52	4.52	9.07	9.08	13.52	13.49	17.92	17.96
Mid. CH	1.10	1.10	2.74	2.73	4.51	4.51	9.09	9.09	13.50	13.49	17.99	18.01
High CH	1.10	1.10	2.73	2.73	4.51	4.51	9.05	9.04	13.45	13.43	17.94	17.93
LTE Band 7 99% Occupied Bandwidth (MHz)												
Low CH	-	-	-	-	4.51	4.52	9.07	9.09	13.51	13.50	17.96	17.90
Mid. CH	-	-	-	-	4.53	4.53	9.09	9.10	13.51	13.50	18.01	18.01
High CH	-	-	-	-	4.51	4.51	9.08	9.07	13.46	13.48	17.96	17.94

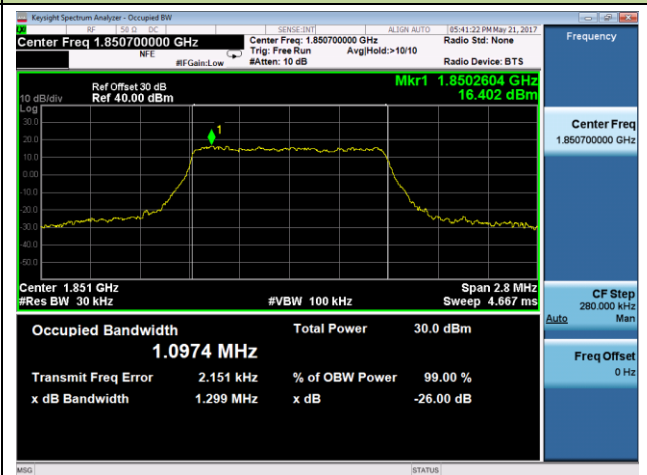
LTE Band 2 26dB Occupied Bandwidth (MHz)												
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16-QAM	QPSK	16-QAM	QPSK	16-QAM	QPSK	16-QAM	QPSK	16-QAM	QPSK	16-QAM
Low CH	1.29	1.30	3.08	3.07	5.01	5.02	10.20	10.21	14.81	14.77	19.43	19.44
Mid. CH	1.30	1.31	3.05	3.05	5.04	5.02	10.16	10.15	14.73	14.80	19.77	19.71
High CH	1.31	1.30	3.07	3.06	5.04	5.03	10.11	10.06	14.91	14.87	19.54	19.50
LTE Band 4 26dB Occupied Bandwidth (MHz)												
Low CH	1.29	1.29	3.04	3.07	5.01	5.01	10.08	10.16	14.90	14.80	19.42	19.43
Mid. CH	1.31	1.31	3.07	3.05	5.01	4.98	10.12	10.16	14.85	14.80	19.70	19.61
High CH	1.31	1.31	3.05	3.04	5.01	5.06	10.00	10.07	14.78	14.66	19.44	19.45
LTE Band 7 26dB Occupied Bandwidth (MHz)												
Low CH	-	-	-	-	5.03	5.01	10.15	10.18	14.74	14.71	19.40	19.36
Mid. CH	-	-	-	-	5.06	5.05	10.19	10.15	14.85	14.82	19.83	19.65
High CH	-	-	-	-	4.98	5.01	10.09	10.05	14.69	14.68	19.36	19.48

LTE Band 2 99% & 26dB Occupied Bandwidth

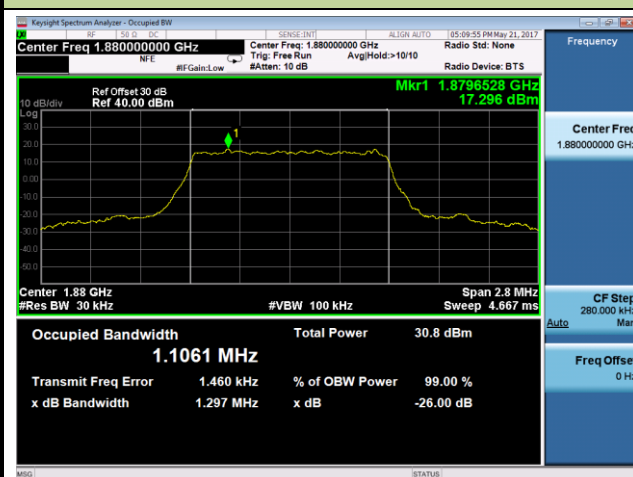
Low CH / 1.4MHz / QPSK



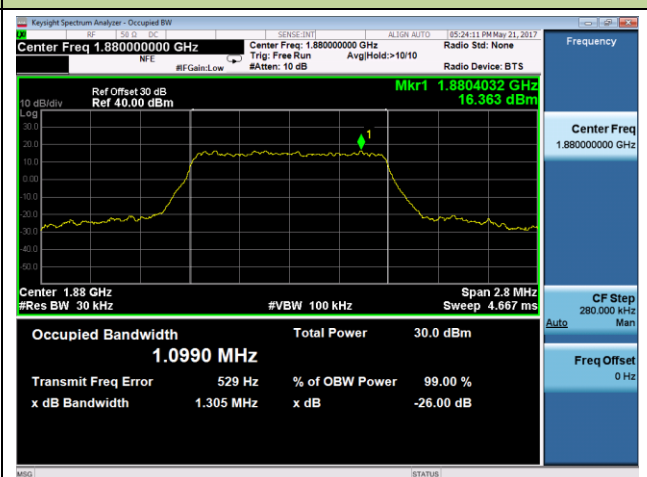
Low CH / 1.4MHz / 16-QAM



Mid. CH / 1.4MHz / QPSK



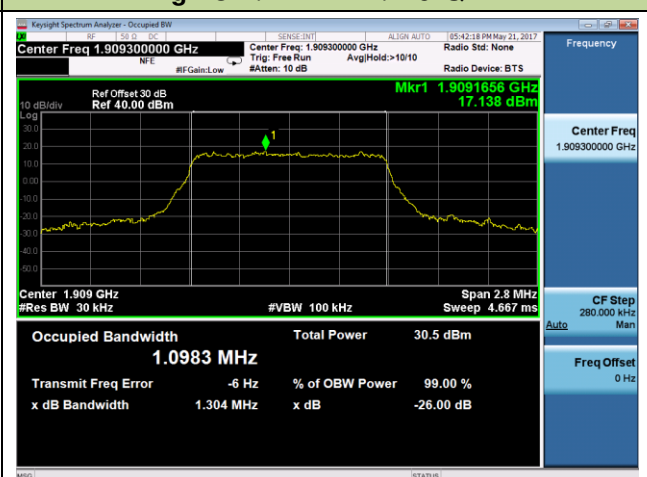
Mid. CH / 1.4MHz / 16-QAM



High CH / 1.4MHz / QPSK

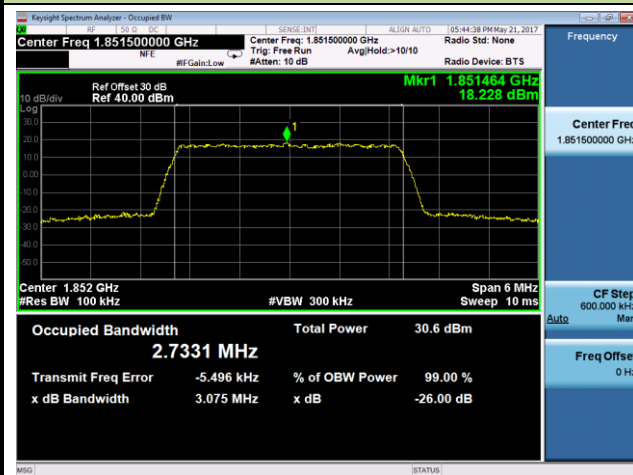


High CH / 1.4MHz / 16-QAM

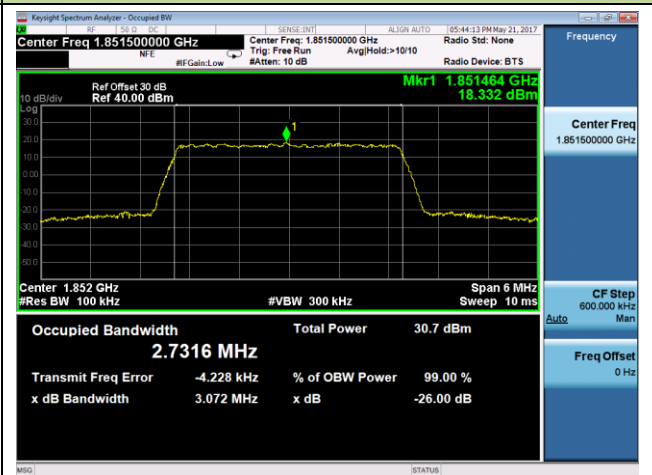


LTE Band 2 99% & 26dB Occupied Bandwidth

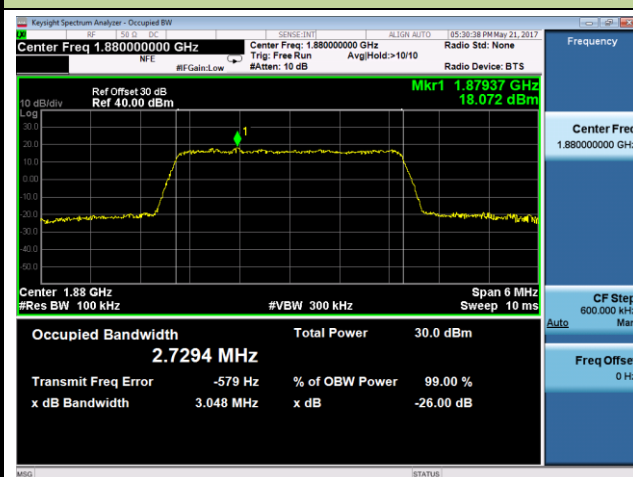
Low CH / 3MHz / QPSK



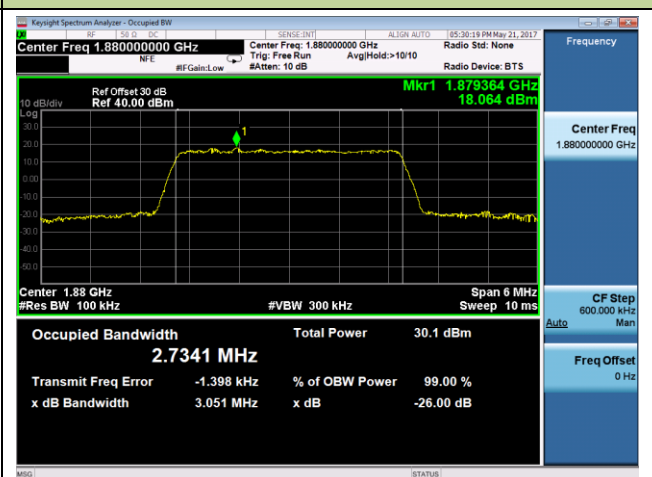
Low CH / 3MHz / 16-QAM



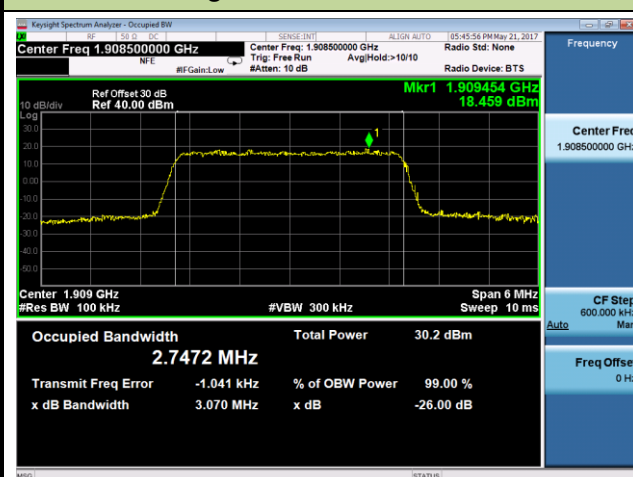
Mid. CH / 3MHz / QPSK



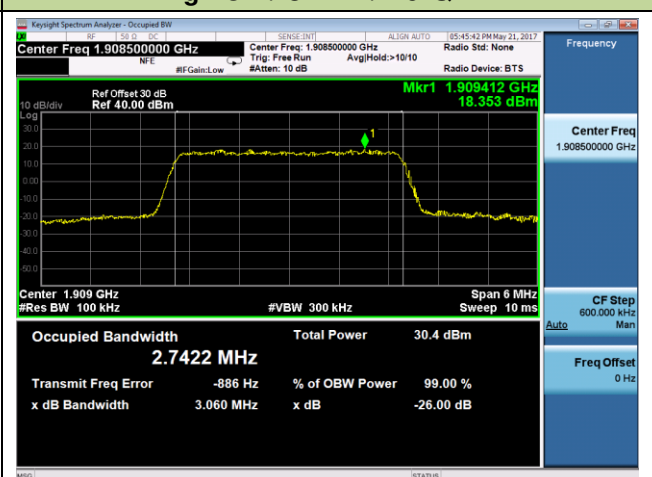
Mid. CH / 3MHz / 16-QAM



High CH / 3MHz / QPSK

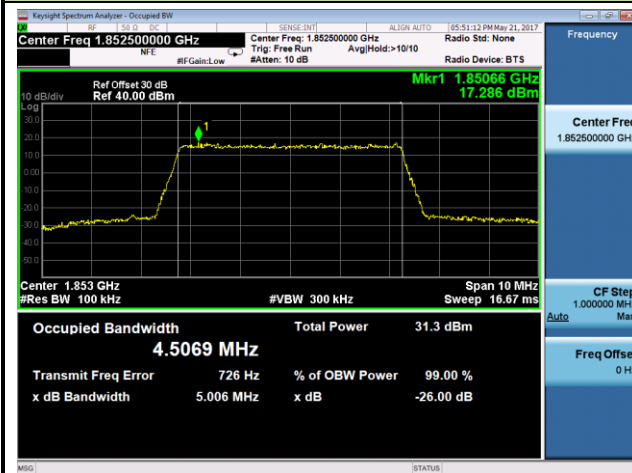


High CH / 3MHz / 16-QAM

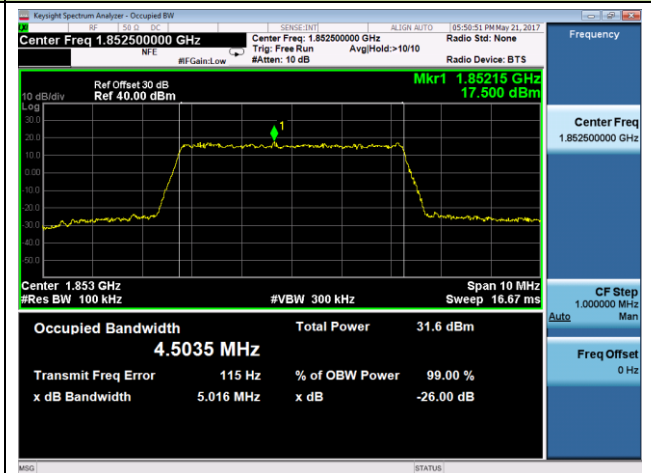


LTE Band 2 99% & 26dB Occupied Bandwidth

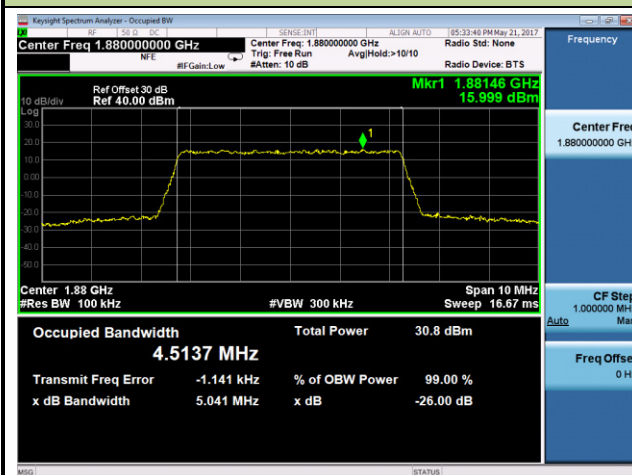
Low CH / 5MHz / QPSK



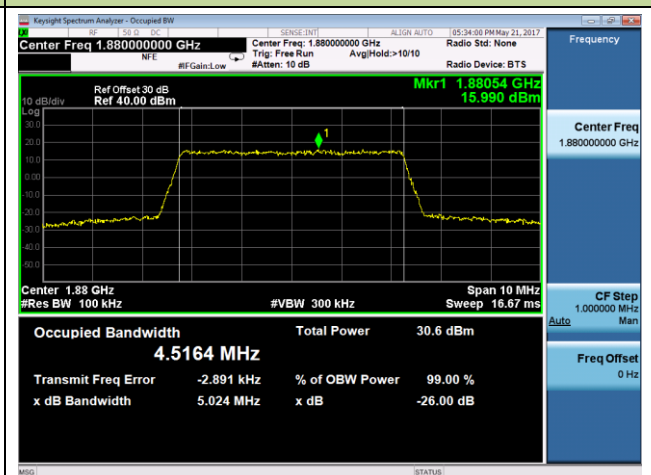
Low CH / 5MHz / 16-QAM



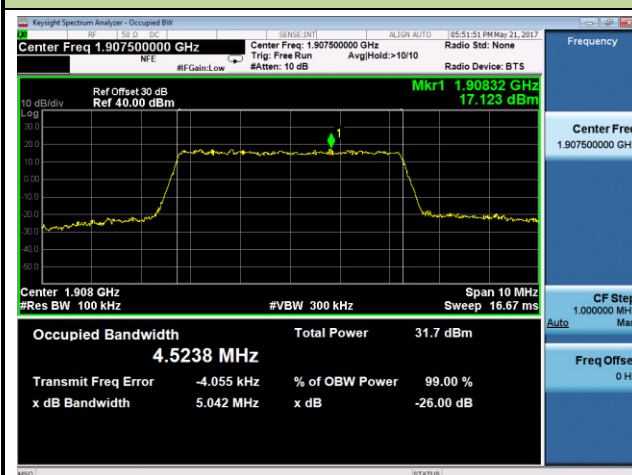
Mid. CH / 5MHz / QPSK



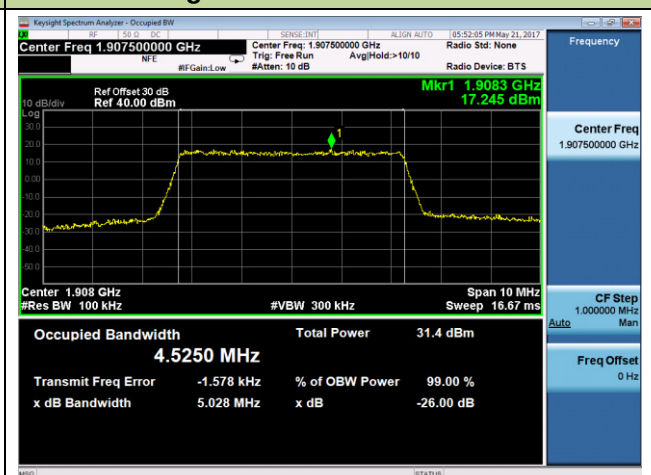
Mid. CH / 5MHz / 16-QAM



High CH / 5MHz / QPSK

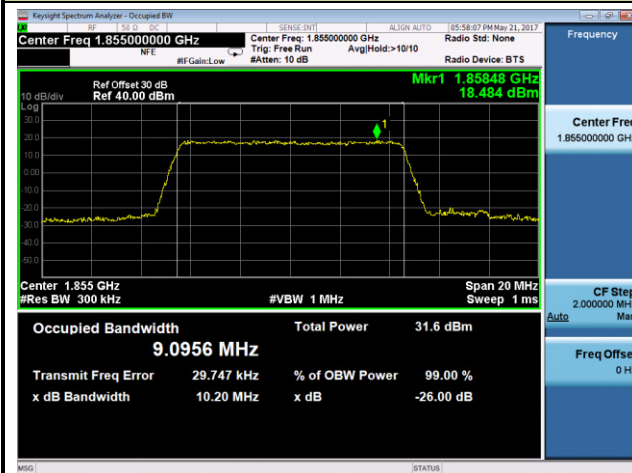


High CH / 5MHz / 16-QAM

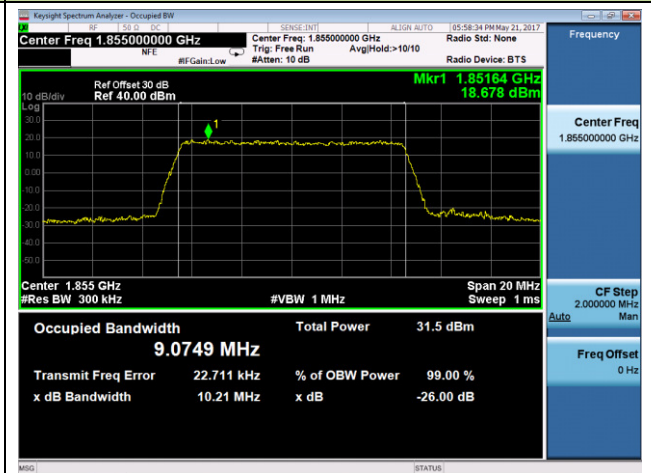


LTE Band 2 99% & 26dB Occupied Bandwidth

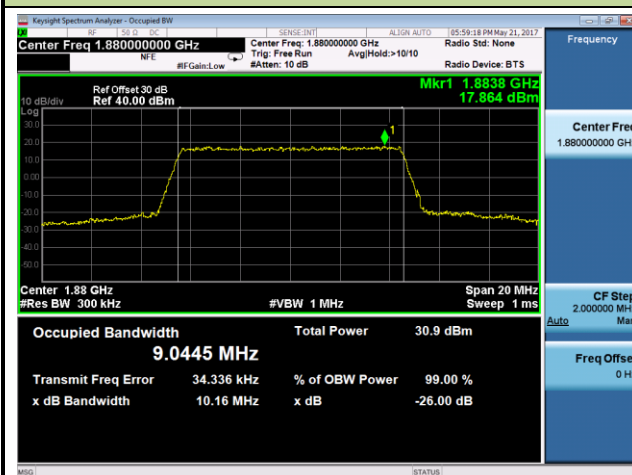
Low CH / 10MHz / QPSK



Low CH / 10MHz / 16-QAM



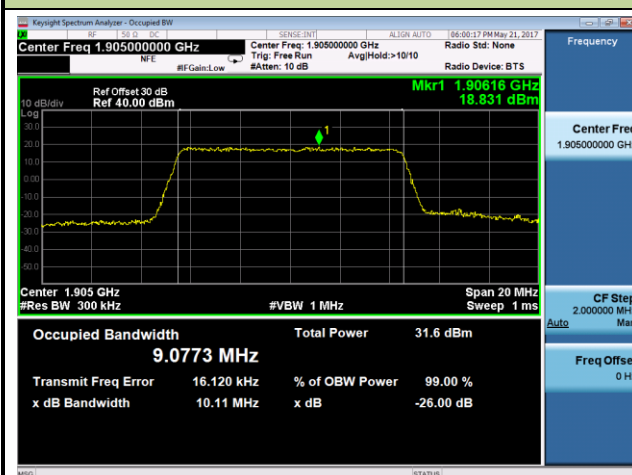
Mid. CH / 10MHz / QPSK



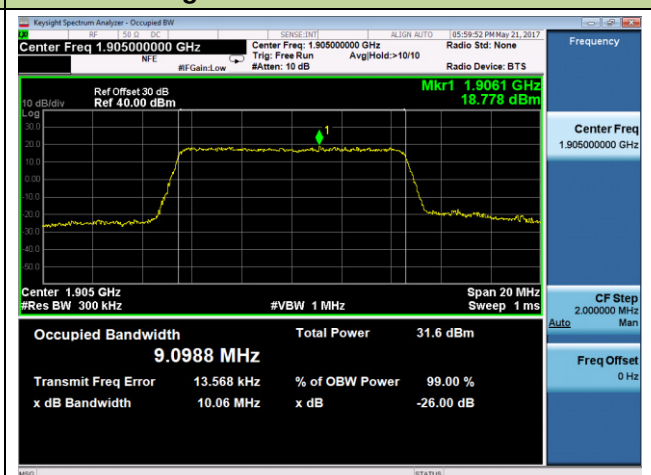
Mid. CH / 10MHz / 16-QAM



High CH / 10MHz / QPSK

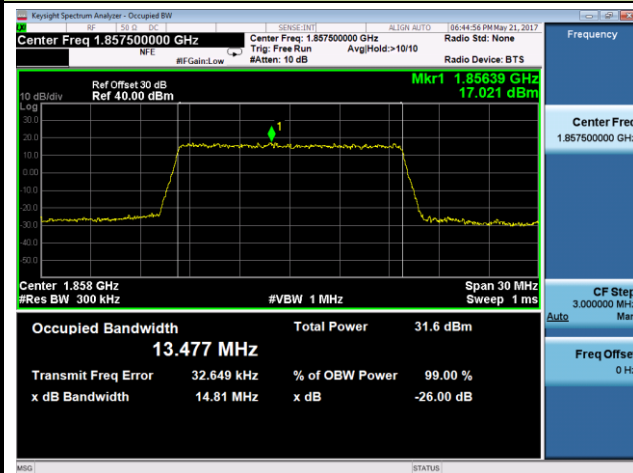


High CH / 10MHz / 16-QAM

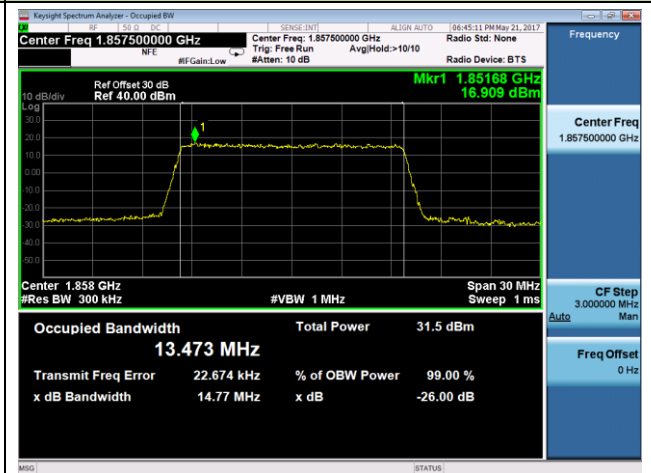


LTE Band 2 99% & 26dB Occupied Bandwidth

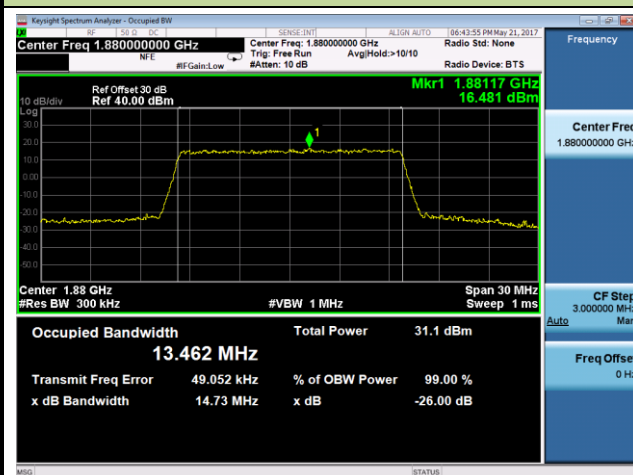
Low CH / 15MHz / QPSK



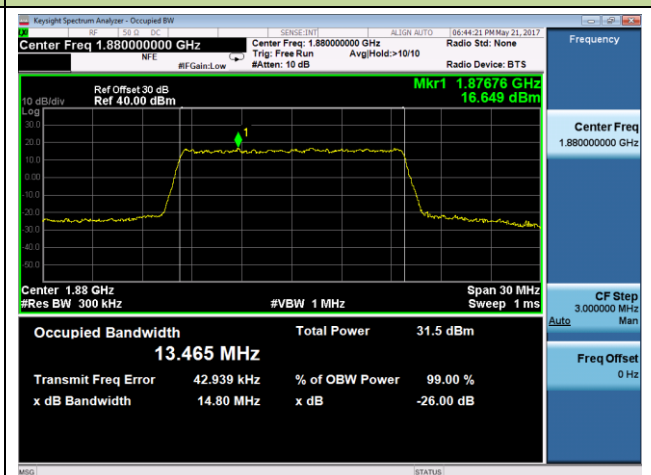
Low CH / 15MHz / 16-QAM



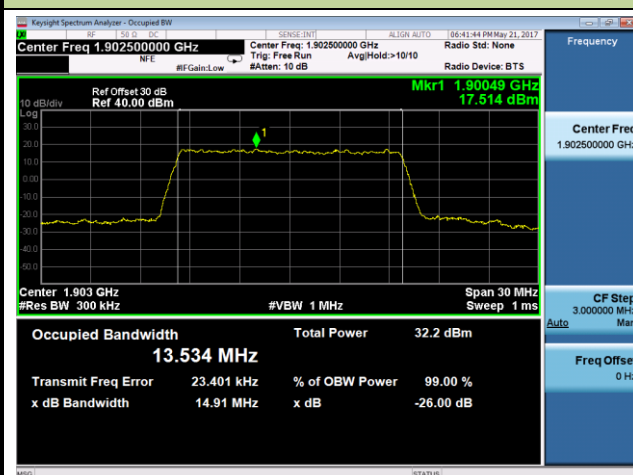
Mid. CH / 15MHz / QPSK



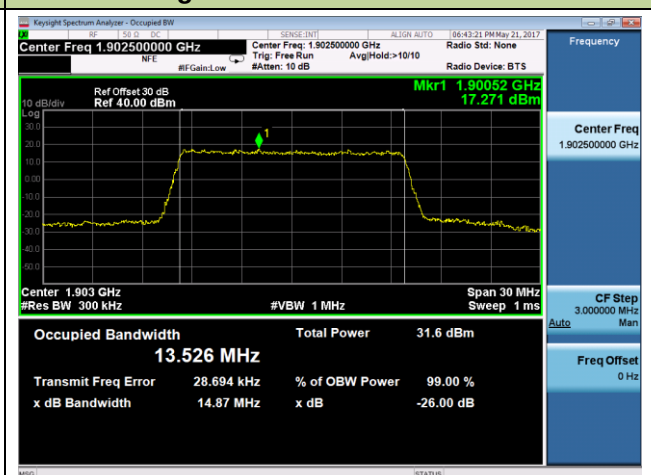
Mid. CH / 15MHz / 16-QAM



High CH / 15MHz / QPSK

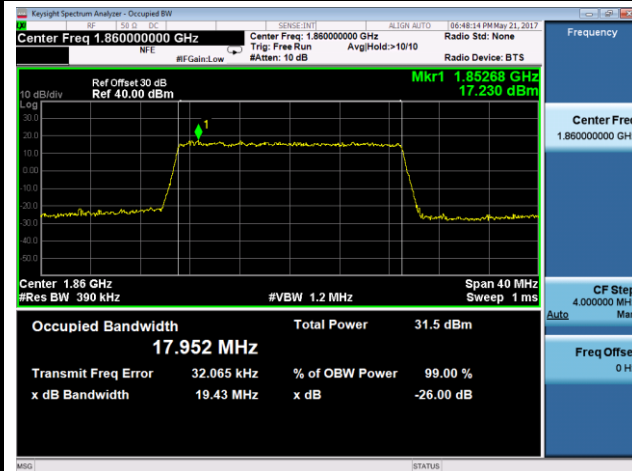


High CH / 15MHz / 16-QAM

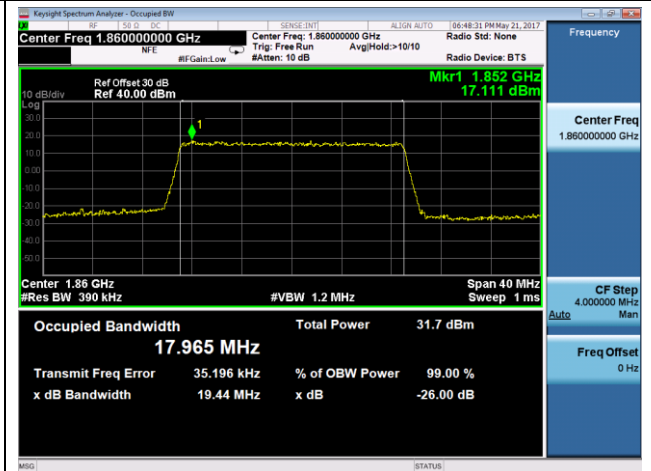


LTE Band 2 99% & 26dB Occupied Bandwidth

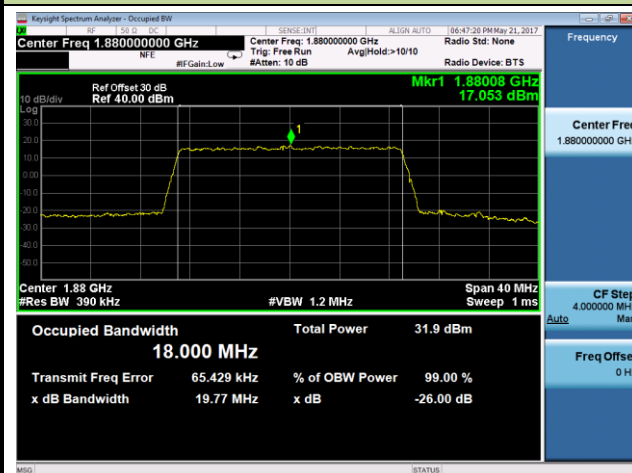
Low CH / 20MHz / QPSK



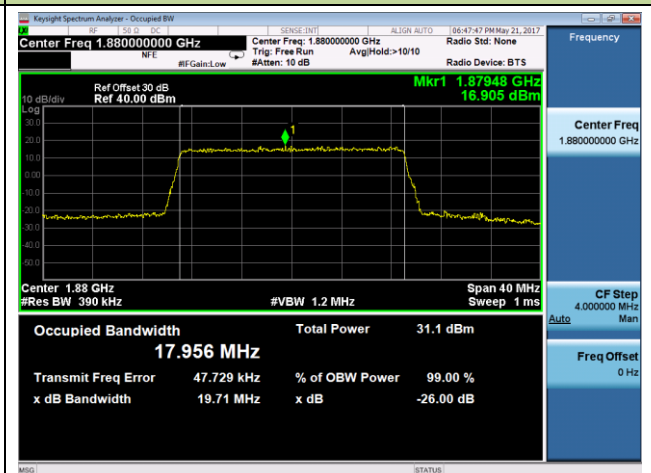
Low CH / 20MHz / 16-QAM



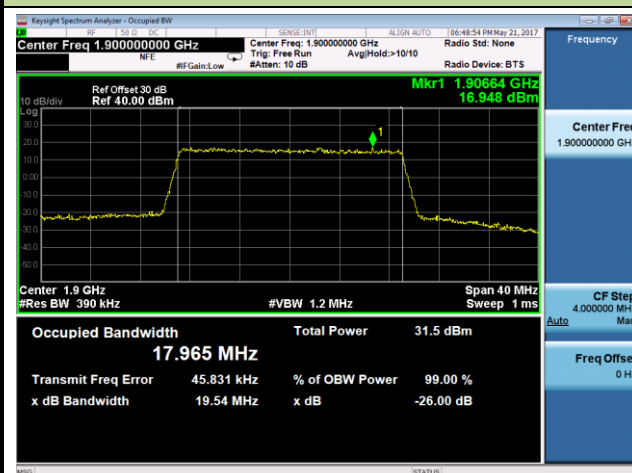
Mid. CH / 20MHz / QPSK



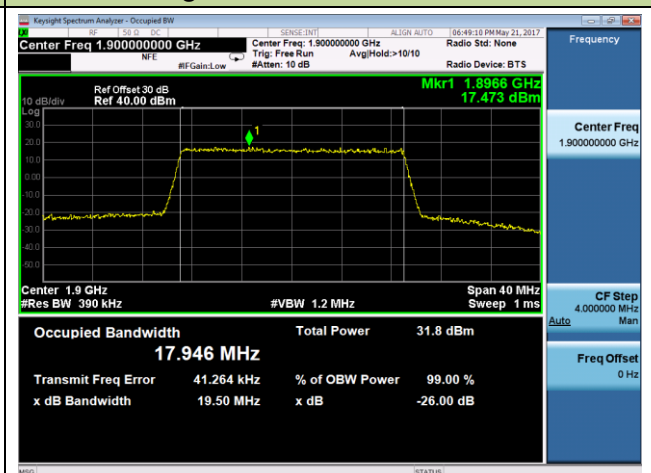
Mid. CH / 20MHz / 16-QAM



High CH / 20MHz / QPSK



High CH / 20MHz / 16-QAM

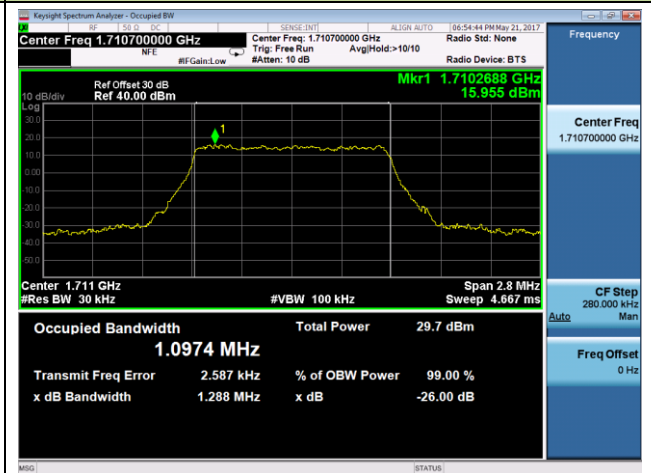


LTE Band 4 99% & 26dB Occupied Bandwidth

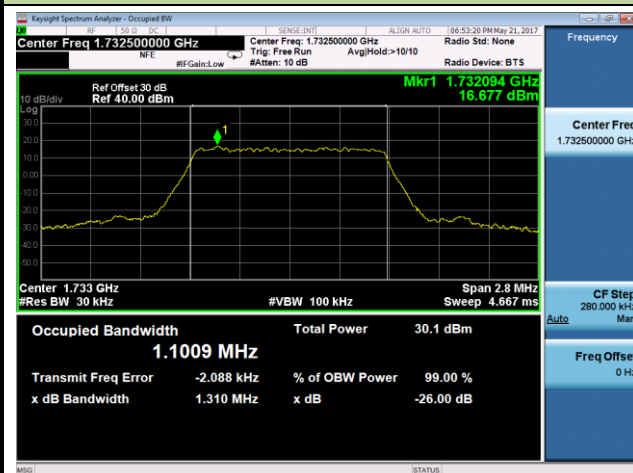
Low CH / 1.4MHz / QPSK



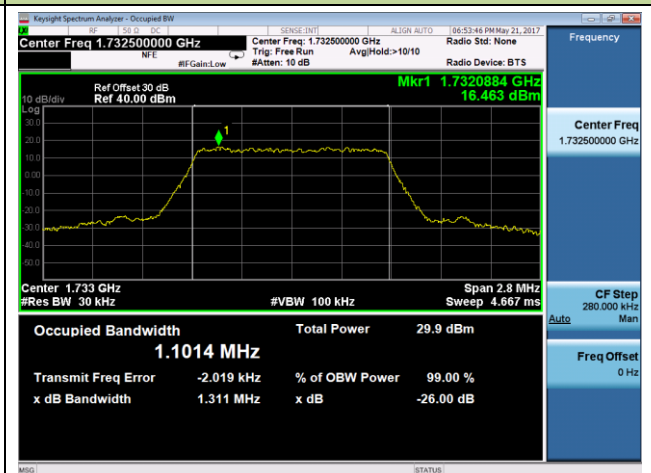
Low CH / 1.4MHz / 16-QAM



Mid. CH / 1.4MHz / QPSK



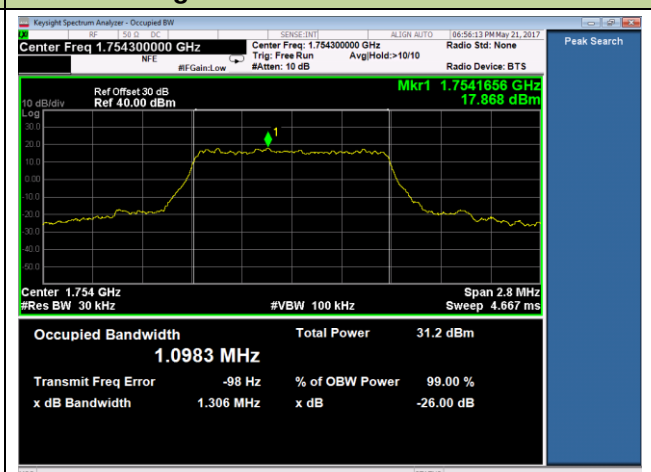
Mid. CH / 1.4MHz / 16-QAM



High CH / 1.4MHz / QPSK

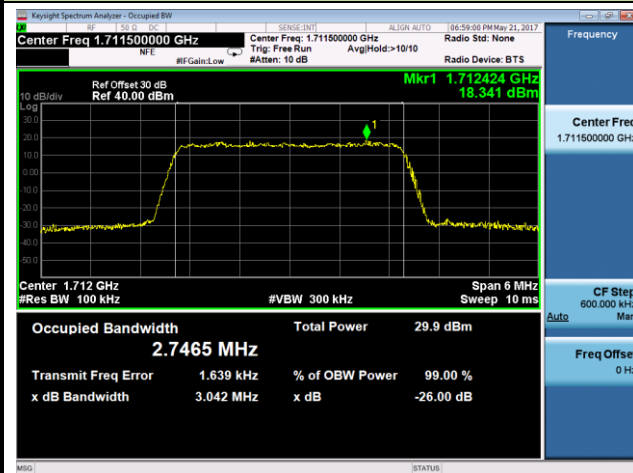


High CH / 1.4MHz / 16-QAM

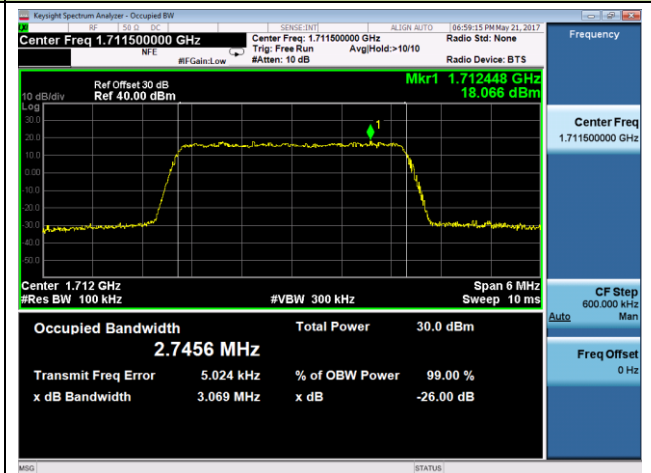


LTE Band 4 99% & 26dB Occupied Bandwidth

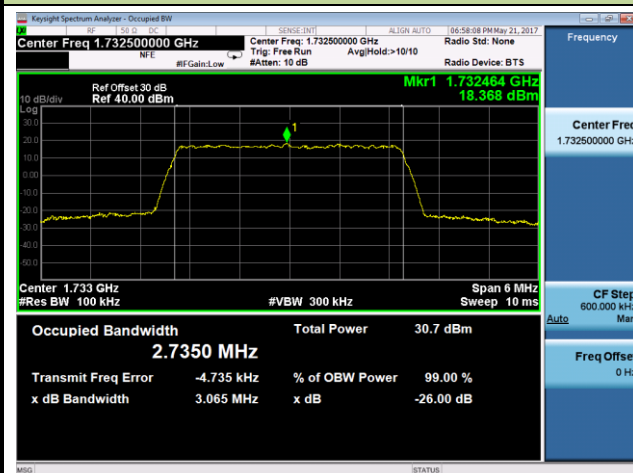
Low CH / 3MHz / QPSK



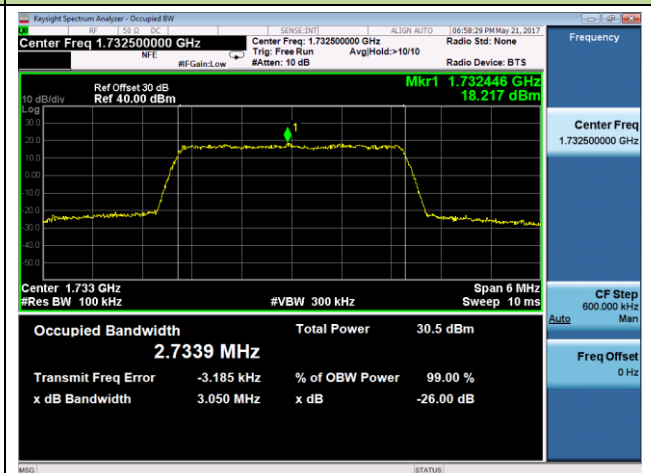
Low CH / 3MHz / 16-QAM



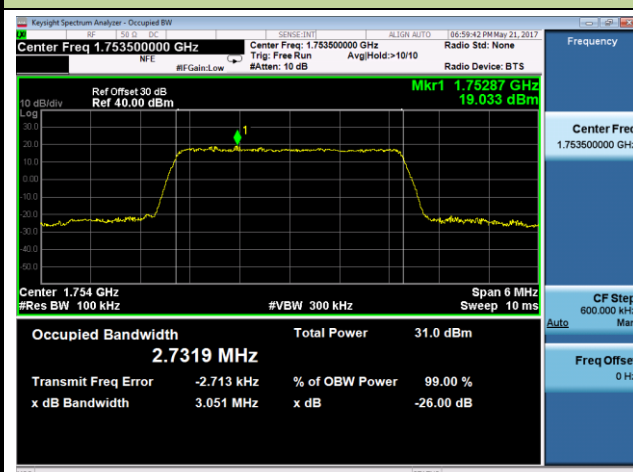
Mid. CH / 3MHz / QPSK



Mid. CH / 3MHz / 16-QAM



High CH / 3MHz / QPSK



High CH / 3MHz / 16-QAM

