

FCC Test Report

(PART 24)

Report No.: RF161012C04-1

FCC ID: ZOQVT-400

Test Model: VT-400

Received Date: Oct. 12, 2016

Test Date: Oct. 21, 2016 ~ Oct. 25, 2016

Issued Date: Nov. 03, 2016

Applicant: Verizon Telematics Inc.

Address: 2002 Summit Blvd, Suite 1800

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 Summary of Test Results.....	5
2.1 Measurement Uncertainty.....	5
2.2 Test Site And Instruments	6
3 General Information	8
3.1 General Description of EUT	8
3.2 Configuration of System under Test.....	9
3.2.1 Description of Support Units.....	9
3.3 Test Mode Applicability and Tested Channel Detail	10
3.4 EUT Operating Conditions	12
3.5 General Description of Applied Standards.....	12
4 Test Types and Results	13
4.1 Output Power Measurement.....	13
4.1.1 Limits of Output Power Measurement	13
4.1.2 Test Procedures.....	13
4.1.3 Test Setup.....	14
4.1.4 Test Results	15
4.2 Frequency Stability Measurement	21
4.2.1 Limits of Frequency Stability Measurement.....	21
4.2.2 Test Procedure	21
4.2.3 Test Setup.....	21
4.2.4 Test Results	22
4.3 Occupied Bandwidth Measurement.....	23
4.3.1 Test Procedure	23
4.3.2 Test Setup.....	23
4.3.3 Test Result	24
4.4 Band Edge Measurement	28
4.4.1 Limits of Band Edge Measurement	28
4.4.2 Test Setup.....	28
4.4.3 Test Procedures.....	28
4.4.4 Test Results	29
4.5 Peak to Average Ratio	35
4.5.1 Limits of Peak to Average Ratio Measurement	35
4.5.2 Test Setup.....	35
4.5.3 Test Procedures.....	35
4.5.4 Test Results	36
4.6 Conducted Spurious Emissions	40
4.6.1 Limits of Conducted Spurious Emissions Measurement.....	40
4.6.2 Test Setup.....	40
4.6.3 Test Procedure	40
4.6.4 Test Results	40
4.7 Radiated Emission Measurement.....	42
4.7.1 Limits of Radiated Emission Measurement	42
4.7.2 Test Procedure	42
4.7.3 Deviation from Test Standard	42
4.7.4 Test Setup.....	42
4.7.5 Test Results	43
5 Pictures of Test Arrangements.....	48
Appendix – Information on the Testing Laboratories	49

Release Control Record

Issue No.	Description	Date Issued
RF161012C04-1	Original Release	Nov. 03, 2016

1 Certificate of Conformity

Product: OBD2 LTE/3G/GPS/WIFI/BT tracker

Brand: Verizon Telematics Inc.

Test Model: VT-400

Sample Status: Identical Prototype

Applicant: Verizon Telematics Inc.

Test Date: Oct. 21, 2016 ~ Oct. 25, 2016

Standards: FCC Part 24, Subpart E

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Evonne Liu , **Date:** Nov. 03, 2016
Evonne Liu / Specialist

Approved by : Stanley Wu , **Date:** Nov. 03, 2016
Stanley Wu / Assistant Manager

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1046 24.232(d)	Peak to Average Ratio	Pass	Meet the requirement of limit.
2.1055 24.235	Frequency Stability	Pass	Meet the requirement of limit.
2.1049 24.238(b)	Occupied Bandwidth	Pass	Meet the requirement of limit.
24.238(b)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 24.238	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -31.64 dB at 5640.00 MHz.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Jan. 21, 2016	Jan. 20, 2017
Spectrum Analyzer Agilent	N9010A	MY52220207	Nov. 02, 2015	Nov. 01, 2016
MXG Vector signal generator	N5182B	MY53050430	Oct. 19, 2016	Oct. 18, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2015	Dec. 16, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 04, 2016	Jan. 03, 2017
Double Ridge Guide Horn Antenna EMCO	3115	5619	Jan. 04, 2016	Jan. 03, 2017
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Jan. 07, 2016	Jan. 06, 2017
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier EMCI	EMC 012645	980115	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 184045	980116	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2015	Dec. 27, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 08, 2016	Sep. 07, 2017
Power Sensor Anritsu	MA2411B	1207325	Sep. 08, 2016	Sep. 07, 2017
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309222 248780	Aug. 09, 2016	Aug. 08, 2017
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	274092	Aug. 09, 2016	Aug. 08, 2017
RF Coaxial Cable Worken	8D-FB	Cable-CH9-01	Aug. 09, 2016	Aug. 08, 2017
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer	MT8820C	6201300640	Aug. 10, 2015	Aug. 09, 2017
Temperature & Humidity Chamber	GTH-120-40-CP-A R	MAA1306-019	Sep. 02, 2016	Sep. 01, 2017
DC Power Supply Topward	33010D	807748	Oct. 27, 2014	Oct. 26, 2016
Digital Multimeter Fluke	87-III	70360742	Jul. 01, 2016	Jun. 30, 2017
Fixed Attenuator Mini-Circuits	BW-N10W5+	N/A	Jul. 08, 2016	Jul. 07, 2017

- Note:
1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 10.
 3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
 4. The FCC Site Registration No. is 690701.
 5. The IC Site Registration No. is IC7450F-10.

3 General Information

3.1 General Description of EUT

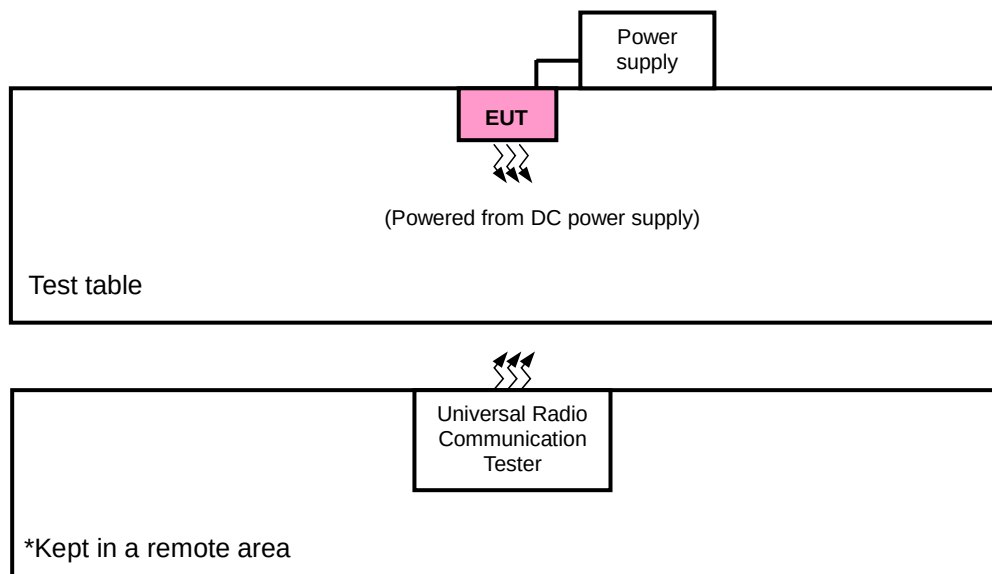
Product	OBD2 LTE/3G/GPS/WIFI/BT tracker	
Brand	Verizon Telematics Inc.	
Test Model	VT-400	
Status of EUT	Identical Prototype	
Power Supply Rating	12Vdc (DC power supply)	
Modulation Type	WCDMA	BPSK
	LTE	QPSK, 16QAM
Frequency Range	WCDMA	1852.4 ~ 1907.6 MHz
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1909.3 MHz
	LTE Band 2 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1908.5 MHz
	LTE Band 2 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1907.5 MHz
	LTE Band 2 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1905.0 MHz
	LTE Band 2 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1902.5 MHz
	LTE Band 2 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1900.0 MHz
Max. EIRP Power	WCDMA	67.03 mW
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	114.13 mW
	LTE Band 2 (Channel Bandwidth: 3 MHz)	117.60 mW
	LTE Band 2 (Channel Bandwidth: 5 MHz)	122.01 mW
	LTE Band 2 (Channel Bandwidth: 10 MHz)	124.57 mW
	LTE Band 2 (Channel Bandwidth: 15 MHz)	126.59 mW
	LTE Band 2 (Channel Bandwidth: 20 MHz)	129.24 mW
Emission Designator	WCDMA	4M16F9W
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1M09W7D
	LTE Band 2 (Channel Bandwidth: 3 MHz)	2M70G7D
	LTE Band 2 (Channel Bandwidth: 5 MHz)	4M50W7D
	LTE Band 2 (Channel Bandwidth: 10 MHz)	8M96G7D
	LTE Band 2 (Channel Bandwidth: 15 MHz)	13M4G7D
	LTE Band 2 (Channel Bandwidth: 20 MHz)	17M9G7D
Antenna Type	Metal monopole Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test / E.I.R.P. Test >



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Power supply	TOP WARD	6603A	725906	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

Note:

1. All power cords of the above support units are non-shielded (1.8m).

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, and antenna ports.

The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	EIRP	Radiated Emission
WCDMA	Y-plane	Y-axis
LTE Band 2	Y-plane	Y-axis

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
-	Frequency Stability	9262 to 9538	9400	WCDMA
-	Occupied Bandwidth	9262 to 9538	9262, 9400, 9538	WCDMA
-	Band Edge	9262 to 9538	9262, 9538	WCDMA
-	Peak to Average Ratio	9262 to 9538	9262, 9400, 9538	WCDMA
-	Conducuted Emission	9262 to 9538	9400	WCDMA
-	Radiated Emission	9262 to 9538	9400	WCDMA

LTE Band 2

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Frequency Stability	18607 to 19193	18900	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18615 to 19185	18900	3 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18900	5 MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18900	10 MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18900	15 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18900	20 MHz	QPSK	1 RB / 0 RB Offset
-	Occupied Bandwidth	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	6 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	15 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	100 RB / 0 RB Offset

-	Peak to Average Ratio	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Band Edge	18607 to 19193	18607	1.4 MHz	QPSK	1 RB / 0 RB Offset
						6 RB / 0 RB Offset
			19193	1.4 MHz	QPSK	1 RB / 5 RB Offset
						6 RB / 0 RB Offset
		18615 to 19185	18615	3 MHz	QPSK	1 RB / 0 RB Offset
						15 RB / 0 RB Offset
			19185	3 MHz	QPSK	1 RB / 14 RB Offset
						15 RB / 0 RB Offset
		18625 to 19175	18625	5 MHz	QPSK	1 RB / 0 RB Offset
						25 RB / 0 RB Offset
			19175	5 MHz	QPSK	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		18650 to 19150	18650	10 MHz	QPSK	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
			19150	10 MHz	QPSK	1 RB / 49 RB Offset
						50 RB / 0 RB Offset
		18675 to 19125	18675	15 MHz	QPSK	1 RB / 0 RB Offset
						75 RB / 0 RB Offset
			19125	15 MHz	QPSK	1 RB / 74 RB Offset
						75 RB / 0 RB Offset
-	Conducted Emission	18607 to 19193	18900	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18615 to 19185	18900	3 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18900	5 MHz	QPSK	1 RB / 0 RB Offset
		18650 to 19150	18900	10 MHz	QPSK	1 RB / 0 RB Offset
		18675 to 19125	18900	15 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18900	20 MHz	QPSK	1 RB / 0 RB Offset
-	Radiated Emission	18700 to 19100	18900	20 MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	26 deg. C, 58 % RH	120 Vac, 60 Hz	Getaz Yang
Frequency Stability	26 deg. C, 58 % RH	120 Vac, 60 Hz	Carlos Chen
Occupied Bandwidth	26 deg. C, 58 % RH	120 Vac, 60 Hz	Carlos Chen
Band Edge	26 deg. C, 58 % RH	120 Vac, 60 Hz	Carlos Chen
Peak to Average Ratio	26 deg. C, 58 % RH	120 Vac, 60 Hz	Carlos Chen
Conducuted Emission	26 deg. C, 58 % RH	120 Vac, 60 Hz	Carlos Chen
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 24

KDB 971168 D01 Power Meas License Digital Systems v02r02

ANSI/TIA/EIA-603-D 2010

NOTE: All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 2 watts e.i.r.p.

4.1.2 Test Procedures

EIRP / ERP Measurement:

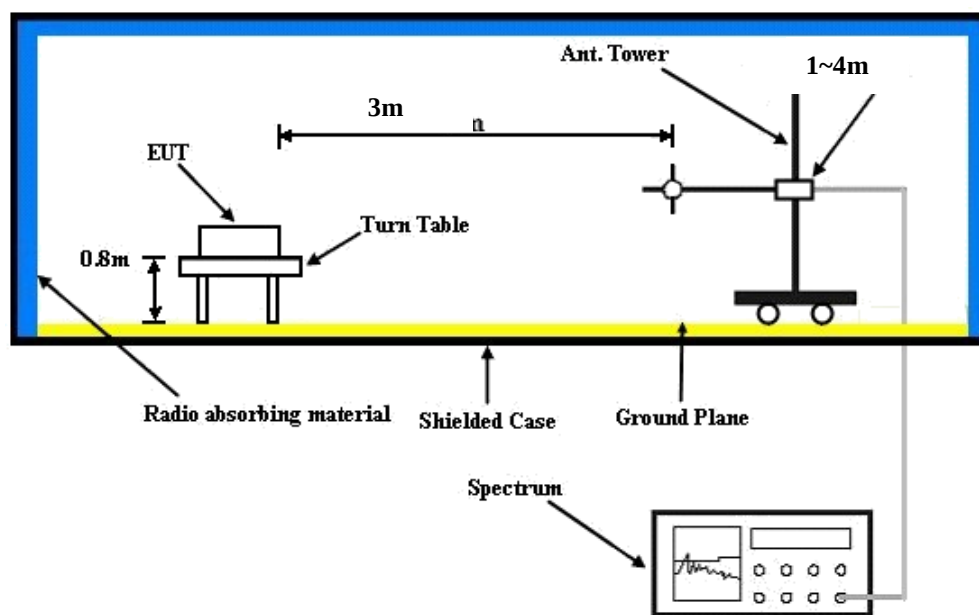
- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1 MHz for GSM, GPRS & EDGE, 5 MHz for WCDMA and CDMA, and 10 MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
- d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$. E.R.P power can be calculated from E.I.R.P power by subtracting the gain of dipole, $E.R.P \text{ power} = E.I.P.R \text{ power} - 2.15 \text{ dBi}$.

Conducted Power Measurement:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 Test Setup

EIRP / ERP Measurement:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	24.53	23.66	23.52

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18607	Mid Ch 18900	High Ch 19193		Low Ch 18607	Mid Ch 18900	High Ch 19193	
			1850.7 MHz	1880.0 MHz	1909.3 MHz		1850.7 MHz	1880.0 MHz	1909.3 MHz	
2 / 1.4M	1	0	23.39	23.65	23.64	0	22.64	22.91	22.77	1
	1	2	23.30	23.52	23.56	0	22.51	22.80	22.67	1
	1	5	23.22	23.47	23.37	0	22.35	22.73	22.60	1
	3	0	23.33	23.52	23.63	0	22.42	22.78	22.84	1
	3	1	23.18	23.38	23.50	0	22.27	22.64	22.74	1
	3	3	23.04	23.36	23.46	0	22.20	22.55	22.66	1
	6	0	22.22	22.49	22.71	1	21.50	21.65	21.92	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18615	Mid Ch 18900	High Ch 19185		Low Ch 18615	Mid Ch 18900	High Ch 19185	
			1851.5 MHz	1880.0 MHz	1908.5 MHz		1851.5 MHz	1880.0 MHz	1908.5 MHz	
2 / 3M	1	0	23.34	23.57	23.71	0	22.39	22.67	22.82	1
	1	7	23.25	23.42	23.56	0	22.27	22.58	22.72	1
	1	14	23.18	23.27	23.44	0	22.19	22.47	22.62	1
	8	0	22.43	22.54	22.75	1	21.46	21.78	21.95	2
	8	3	22.31	22.42	22.60	1	21.31	21.65	21.86	2
	8	7	22.17	22.30	22.45	1	21.22	21.55	21.79	2
	15	0	22.31	22.55	22.64	1	21.60	21.72	21.77	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18625	Mid Ch 18900	High Ch 19175		Low Ch 18625	Mid Ch 18900	High Ch 19175	
			1852.5 MHz	1880.0 MHz	1907.5 MHz		1852.5 MHz	1880.0 MHz	1907.5 MHz	
2 / 5M	1	0	23.41	23.45	23.89	0	22.44	22.47	23.00	1
	1	12	23.28	23.36	23.74	0	22.33	22.38	22.86	1
	1	24	23.20	23.28	23.61	0	22.28	22.17	22.74	1
	12	0	22.42	22.49	22.82	1	21.60	21.61	21.89	2
	12	6	22.35	22.42	22.67	1	21.45	21.50	21.74	2
	12	13	22.20	22.24	22.61	1	21.34	21.43	21.64	2
	25	0	22.24	22.51	22.71	1	21.45	21.61	21.93	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18650	Mid Ch 18900	High Ch 19150		Low Ch 18650	Mid Ch 18900	High Ch 19150	
			1855.0 MHz	1880.0 MHz	1905.0 MHz		1855.0 MHz	1880.0 MHz	1905.0 MHz	
2 / 10M	1	0	23.53	23.64	24.15	0	22.56	22.82	23.43	1
	1	24	23.38	23.50	24.03	0	22.43	22.75	23.36	1
	1	49	23.33	23.40	23.85	0	22.29	22.61	23.16	1
	25	0	22.40	22.63	22.79	1	21.61	21.64	21.81	2
	25	12	22.33	22.53	22.72	1	21.50	21.51	21.67	2
	25	25	22.17	22.44	22.55	1	21.37	21.35	21.60	2
	50	0	22.46	22.52	22.88	1	21.54	21.64	22.08	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18675	Mid Ch 18900	High Ch 19125		Low Ch 18675	Mid Ch 18900	High Ch 19125	
			1857.5 MHz	1880.0 MHz	1902.5 MHz		1857.5 MHz	1880.0 MHz	1902.5 MHz	
2 / 15M	1	0	23.48	23.61	23.62	0	22.62	22.81	22.86	1
	1	37	23.40	23.51	23.51	0	22.47	22.70	22.71	1
	1	74	23.21	23.36	23.35	0	22.43	22.59	22.63	1
	36	0	22.33	22.49	22.59	1	21.42	21.53	21.75	2
	36	19	22.25	22.41	22.48	1	21.28	21.45	21.67	2
	36	39	22.05	22.24	22.41	1	21.20	21.37	21.46	2
	75	0	22.43	22.44	22.68	1	21.60	21.56	21.76	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 18700	Mid Ch 18900	High Ch 19100		Low Ch 18700	Mid Ch 18900	High Ch 19100	
			1860.0 MHz	1880.0 MHz	1900.0 MHz		1860.0 MHz	1880.0 MHz	1900.0 MHz	
2 / 20M	1	0	23.58	23.61	23.69	0	22.70	22.71	22.95	1
	1	50	23.45	23.54	23.59	0	22.63	22.63	22.84	1
	1	99	23.41	23.36	23.49	0	22.43	22.44	22.71	1
	50	0	22.44	22.56	22.67	1	21.73	21.82	21.85	2
	50	25	22.31	22.48	22.57	1	21.61	21.71	21.71	2
	50	50	22.19	22.33	22.42	1	21.48	21.60	21.61	2
	100	0	22.27	22.49	22.71	1	21.44	21.68	21.77	2

EIRP Power (dBm)

WCDMA							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Y	9262	1852.4	-20.65	36.57	15.92	39.10	H
	9400	1880.0	-21.21	37.22	16.01	39.94	
	9538	1907.6	-21.23	37.18	15.95	39.37	
	9262	1852.4	-19.46	37.65	18.19	65.93	V
	9400	1880.0	-19.32	37.58	18.26	67.03	
	9538	1907.6	-19.23	37.48	18.25	66.83	

LTE Band 2							
Channel Bandwidth: 1.4 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Y	18607	1850.7	-16.13	36.57	20.44	110.71	H
	18900	1880.0	-16.65	37.22	20.57	114.13	
	19193	1909.3	-16.65	37.18	20.53	113.03	
	18607	1850.7	-18.99	37.65	18.66	73.47	V
	18900	1880.0	-18.78	37.58	18.80	75.91	
	19193	1909.3	-18.73	37.48	18.75	74.99	
Channel Bandwidth: 1.4 MHz / 16QAM							
Y	18607	1850.7	-16.63	36.57	19.94	98.67	H
	18900	1880.0	-17.20	37.22	20.02	100.55	
	19193	1909.3	-17.23	37.18	19.95	98.90	
	18607	1850.7	-19.38	37.65	18.27	67.16	V
	18900	1880.0	-19.25	37.58	18.33	68.12	
	19193	1909.3	-19.25	37.48	18.23	66.53	

LTE Band 2							
Channel Bandwidth: 3 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Y	18615	1851.5	-15.96	36.57	20.61	115.13	H
	18900	1880.0	-16.52	37.22	20.70	117.60	
	19185	1908.5	-16.52	37.18	20.66	116.47	
	18615	1851.5	-18.81	37.65	18.84	76.58	V
	18900	1880.0	-18.69	37.58	18.89	77.50	
	19185	1908.5	-18.65	37.48	18.83	76.38	
Channel Bandwidth: 3 MHz / 16QAM							
Y	18615	1851.5	-16.47	36.57	20.10	102.38	H
	18900	1880.0	-16.85	37.22	20.37	108.99	
	19185	1908.5	-16.95	37.18	20.23	105.49	
	18615	1851.5	-19.34	37.65	18.31	67.78	V
	18900	1880.0	-19.21	37.58	18.37	68.75	
	19185	1908.5	-19.18	37.48	18.30	67.61	

LTE Band 2							
Channel Bandwidth: 5 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Y	18625	1852.5	-15.84	36.57	20.73	118.36	H
	18900	1880.0	-16.36	37.22	20.86	122.01	
	19175	1907.5	-16.41	37.18	20.77	119.45	
	18625	1852.5	-18.72	37.65	18.93	78.18	V
	18900	1880.0	-18.63	37.58	18.95	78.58	
	19175	1907.5	-18.62	37.48	18.86	76.91	
Channel Bandwidth: 5 MHz / 16QAM							
Y	18625	1852.5	-16.22	36.57	20.35	108.44	H
	18900	1880.0	-16.77	37.22	20.45	111.02	
	19175	1907.5	-16.81	37.18	20.37	108.94	
	18625	1852.5	-19.28	37.65	18.37	68.72	V
	18900	1880.0	-19.19	37.58	18.39	69.07	
	19175	1907.5	-19.12	37.48	18.36	68.55	

LTE Band 2							
Channel Bandwidth: 10 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Y	18650	1855.0	-15.73	36.57	20.84	121.39	H
	18900	1880.0	-16.27	37.22	20.95	124.57	
	19150	1905.0	-16.31	37.18	20.87	122.24	
	18650	1855.0	-18.69	37.65	18.96	78.72	V
	18900	1880.0	-18.61	37.58	18.97	78.94	
	19150	1905.0	-18.53	37.48	18.95	78.52	
Channel Bandwidth: 10 MHz / 16QAM							
Y	18650	1855.0	-16.11	36.57	20.46	111.22	H
	18900	1880.0	-16.71	37.22	20.51	112.56	
	19150	1905.0	-16.70	37.18	20.48	111.74	
	18650	1855.0	-19.21	37.65	18.44	69.84	V
	18900	1880.0	-19.13	37.58	18.45	70.03	
	19150	1905.0	-19.06	37.48	18.42	69.50	

LTE Band 2							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Y	18675	1857.5	-15.63	36.57	20.94	124.22	H
	18900	1880.0	-16.20	37.22	21.02	126.59	
	19125	1902.5	-16.22	37.18	20.96	124.80	
	18675	1857.5	-18.61	37.65	19.04	80.19	V
	18900	1880.0	-18.53	37.58	19.05	80.41	
	19125	1902.5	-18.47	37.48	19.01	79.62	
Channel Bandwidth: 15 MHz / 16QAM							
Y	18675	1857.5	-16.05	36.57	20.52	112.77	H
	18900	1880.0	-16.62	37.22	20.60	114.92	
	19125	1902.5	-16.61	37.18	20.57	114.08	
	18675	1857.5	-19.16	37.65	18.49	70.65	V
	18900	1880.0	-19.06	37.58	18.52	71.17	
	19125	1902.5	-18.97	37.48	18.51	70.96	

LTE Band 2							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
Y	18700	1860.0	-15.52	36.57	21.05	127.41	H
	18900	1880.0	-16.11	37.22	21.11	129.24	
	19100	1900.0	-16.15	37.18	21.03	126.82	
	18700	1860.0	-18.53	37.65	19.12	81.68	V
	18900	1880.0	-18.42	37.58	19.16	82.47	
	19100	1900.0	-18.40	37.48	19.08	80.91	
Channel Bandwidth: 20 MHz / 16QAM							
Y	18700	1860.0	-15.92	36.57	20.65	116.20	H
	18900	1880.0	-16.53	37.22	20.69	117.33	
	19100	1900.0	-16.54	37.18	20.64	115.93	
	18700	1860.0	-19.11	37.65	18.54	71.47	V
	18900	1880.0	-19.01	37.58	18.57	71.99	
	19100	1900.0	-18.95	37.48	18.53	71.29	

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stability Measurement

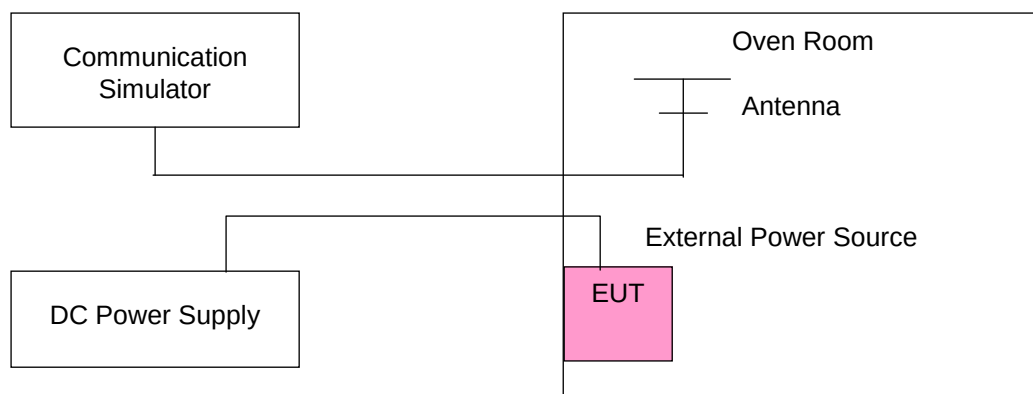
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

4.2.2 Test Procedure

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ± 0.5 °C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 Test Setup



4.2.4 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	Frequency Error (ppm)							Limit (ppm)
	WCDMA	LTE Band 2						
		1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
12	0.002	0.002	0.002	0.001	0.002	0.001	0.001	2.5
6	0.001	0.002	0.001	0.001	0.001	0.002	0.002	2.5
18	0.001	0.001	0.001	0.002	0.001	0.002	0.002	2.5

Note: The applicant defined the normal working voltage of the battery is from 6 Vdc to 18 Vdc.

Frequency Error vs. Temperature

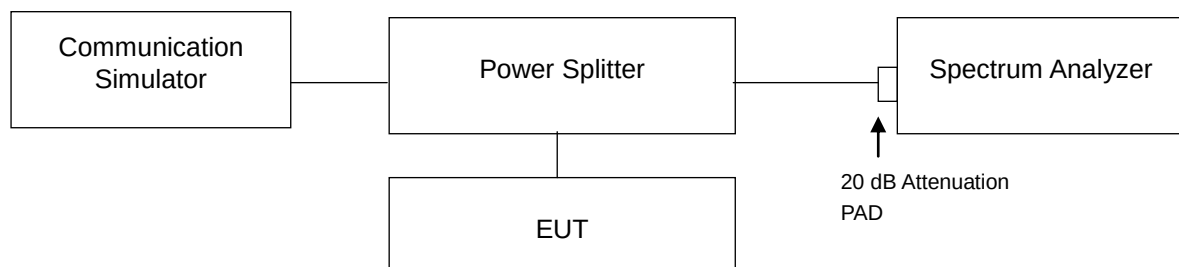
Temp. (°C)	Frequency Error (ppm)							Limit (ppm)
	WCDMA	LTE Band 2						
		1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
-30	0.002	0.002	0.002	0.001	0.002	0.001	0.002	2.5
-20	0.001	0.001	0.002	0.001	0.002	0.001	0.001	2.5
-10	0.002	0.001	0.001	0.002	0.001	0.002	0.001	2.5
0	0.001	0.001	0.002	0.001	0.002	0.001	0.001	2.5
10	0.002	0.002	0.001	0.001	0.001	0.001	0.002	2.5
20	-0.002	-0.001	-0.001	-0.002	-0.002	-0.001	-0.001	2.5
30	-0.001	-0.001	-0.002	-0.002	-0.002	-0.001	-0.002	2.5
40	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.001	2.5
50	-0.001	-0.001	-0.001	-0.002	-0.001	-0.002	-0.001	2.5

4.3 Occupied Bandwidth Measurement

4.3.1 Test Procedure

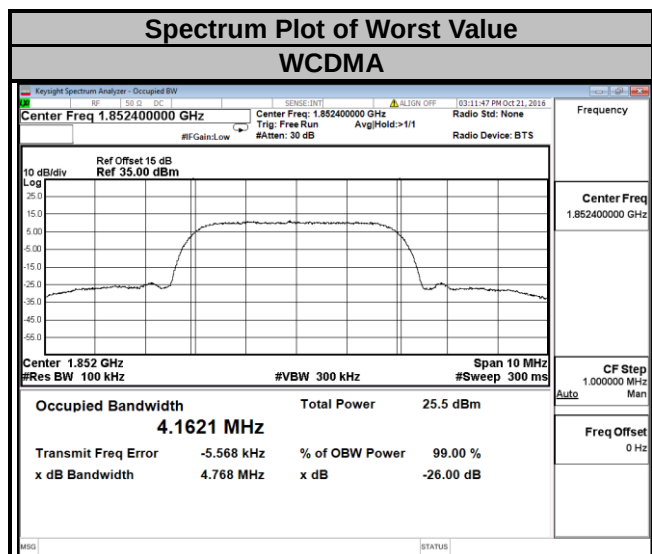
The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.2 Test Setup



4.3.3 Test Result

Channel	Frequency (MHz)	99 % Occupied Bandwidth (kHz)
		WCDMA
9262	1852.4	4.1621
9400	1880.0	4.1377
9538	1907.6	4.1437



LTE Band 2

Channel Bandwidth: 1.4 MHz

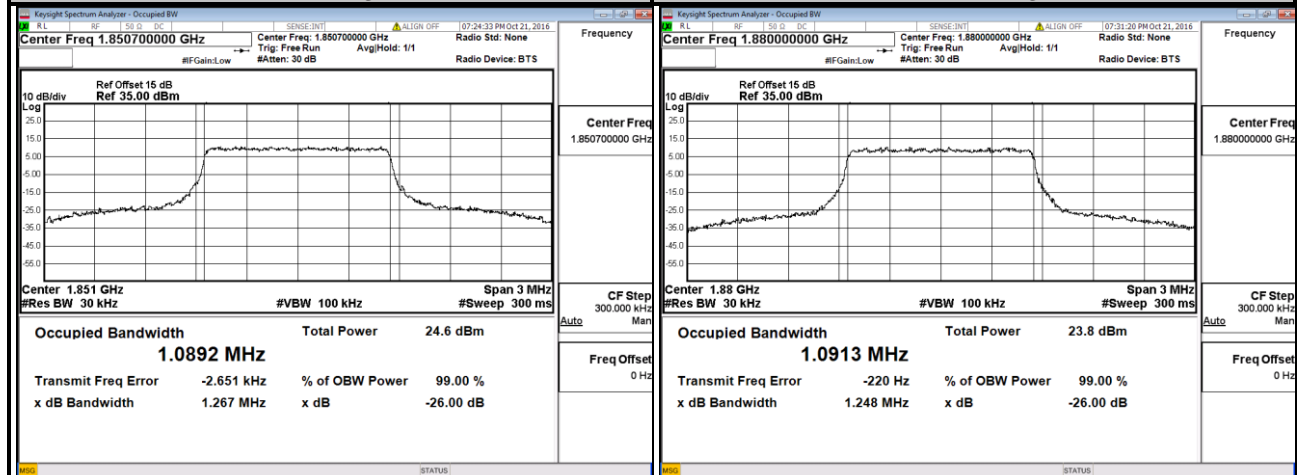
Channel Bandwidth: 3 MHz

Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	1.0892	1.0899	18615	1851.5	2.7041	2.6983
18900	1880.0	1.0886	1.0913	18900	1880.0	2.7018	2.6997
19193	1909.3	1.0873	1.0905	19185	1908.5	2.7033	2.6980

Spectrum Plot of Worst Value

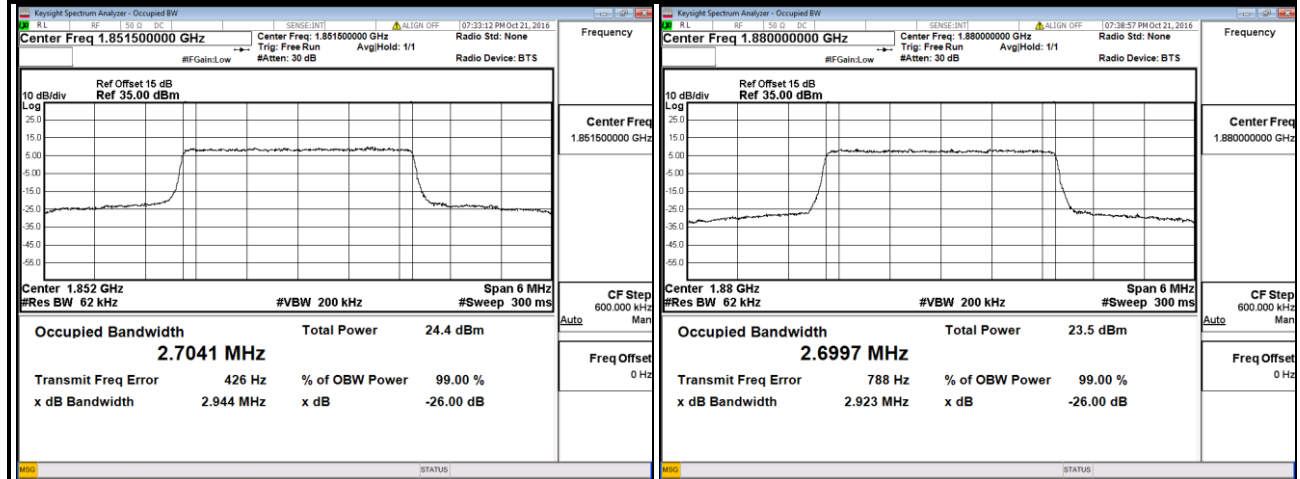
1.4 MHz / QPSK

1.4 MHz / 16QAM



3 MHz / QPSK

3 MHz / 16QAM



LTE Band 2

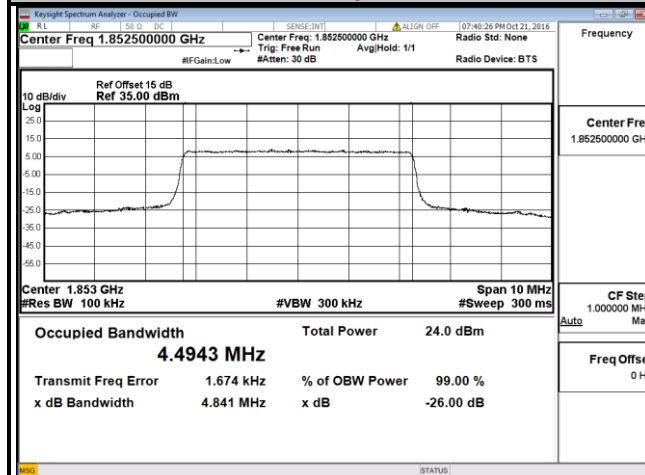
Channel Bandwidth: 5 MHz

Channel Bandwidth: 10 MHz

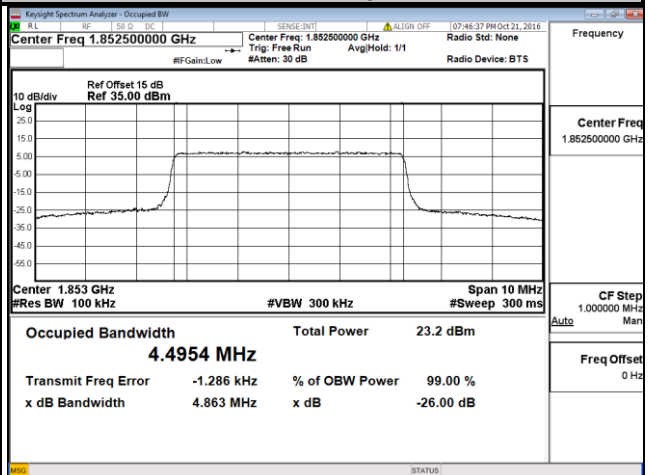
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	4.4943	4.4954	18650	1855.0	8.9602	8.9599
18900	1880.0	4.4926	4.4920	18900	1880.0	8.9533	8.9561
19175	1907.5	4.4894	4.4919	19150	1905.0	8.9381	8.9469

Spectrum Plot of Worst Value

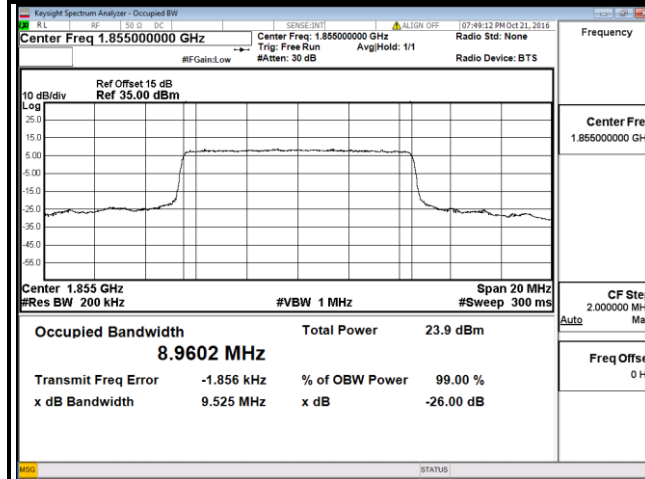
5 MHz / QPSK



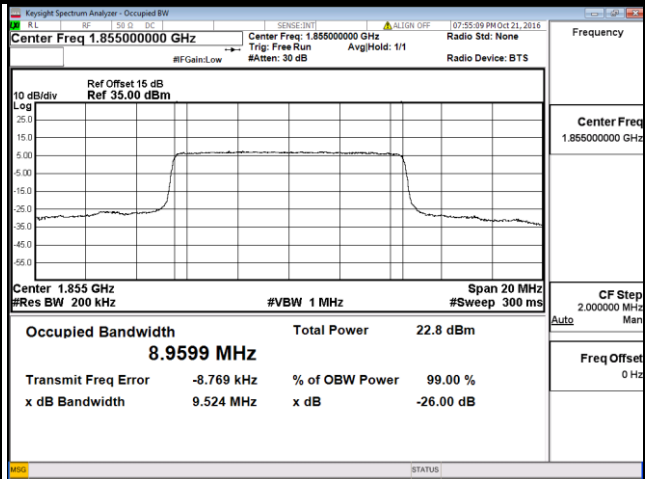
5 MHz / 16QAM



10 MHz / QPSK



10 MHz / 16QAM



LTE Band 2

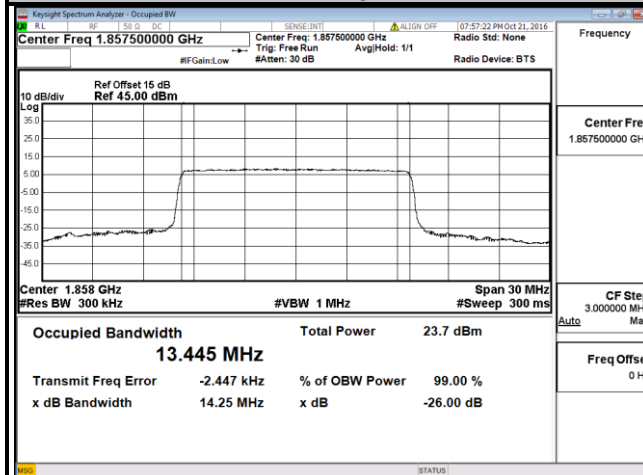
Channel Bandwidth: 15 MHz

Channel Bandwidth: 20 MHz

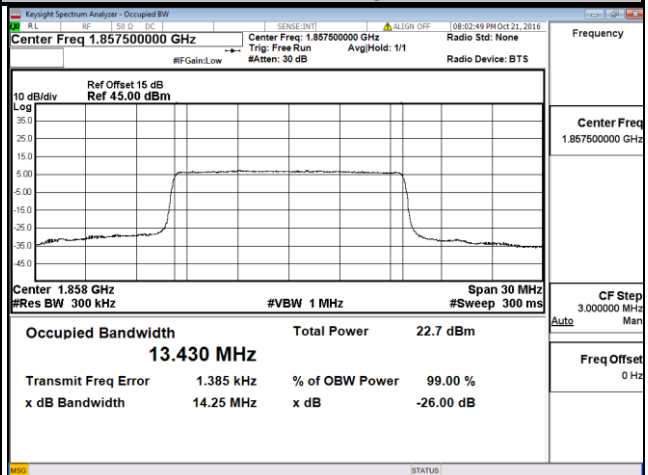
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	13.4450	13.4300	18700	1860.0	17.9100	17.9270
18900	1880.0	13.4300	13.4180	18900	1880.0	17.8780	17.8990
19125	1902.5	13.4230	13.4140	19100	1900.0	17.8730	17.9090

Spectrum Plot of Worst Value

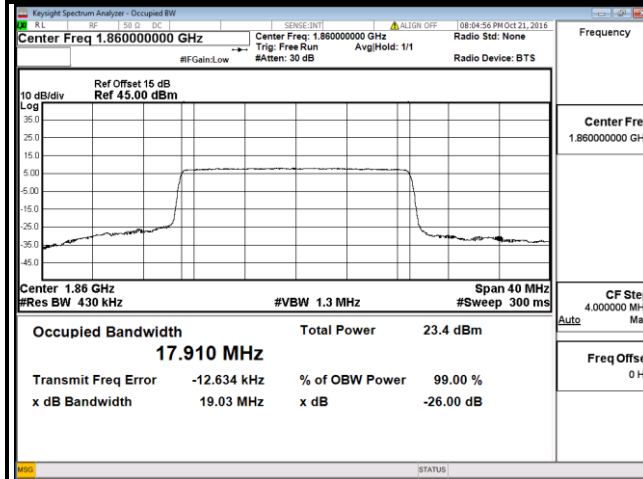
15 MHz / QPSK



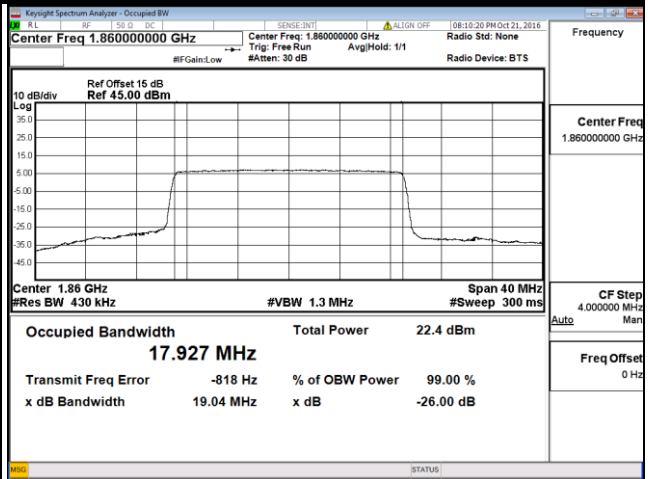
15 MHz / 16QAM



20 MHz / QPSK



20 MHz / 16QAM

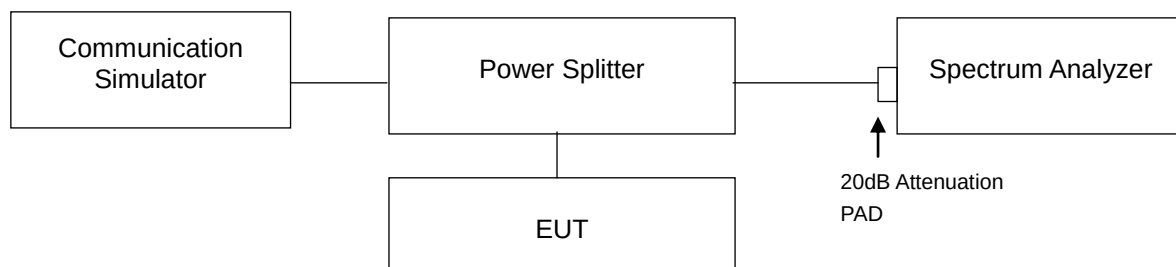


4.4 Band Edge Measurement

4.4.1 Limits of Band Edge Measurement

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

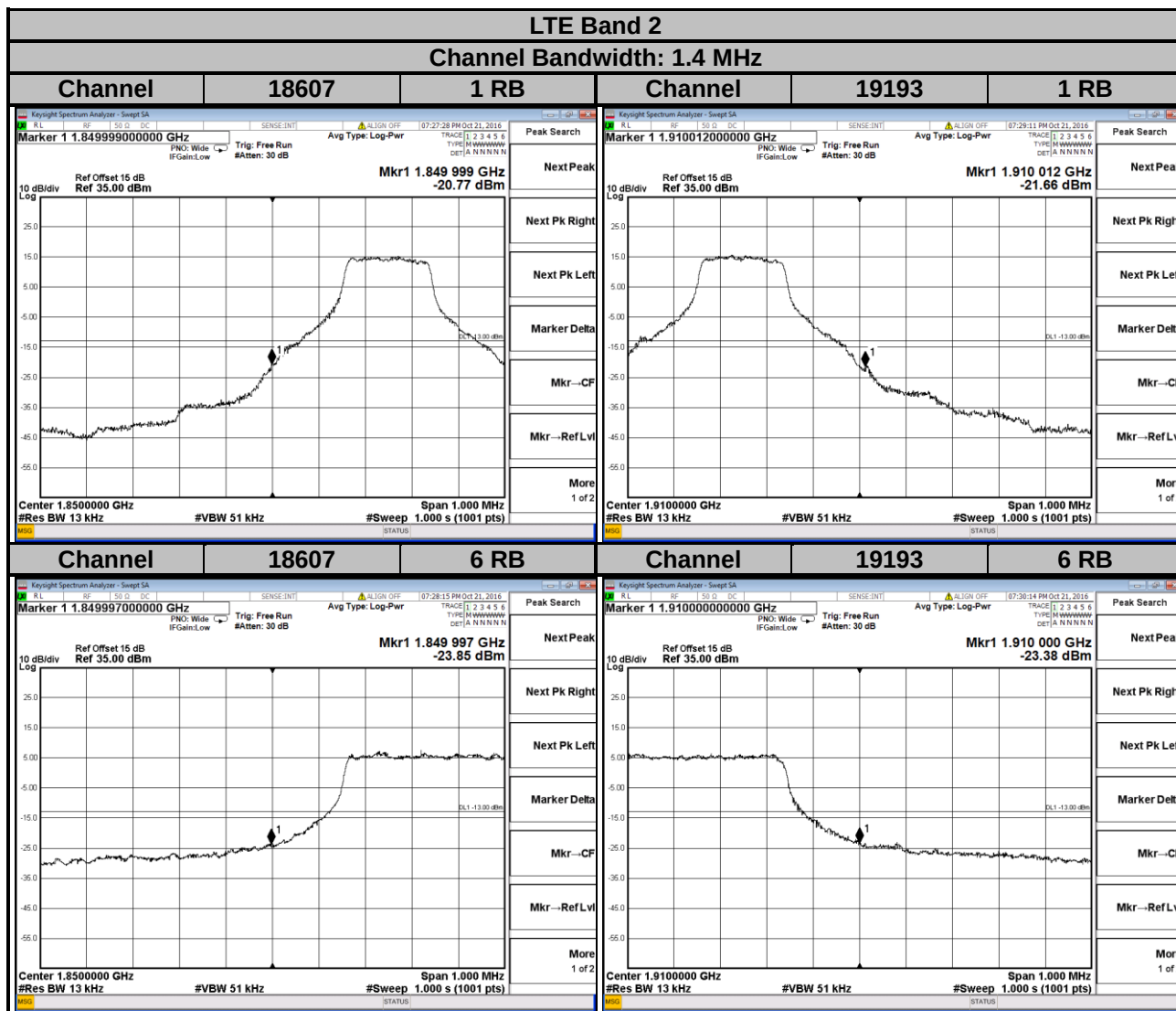
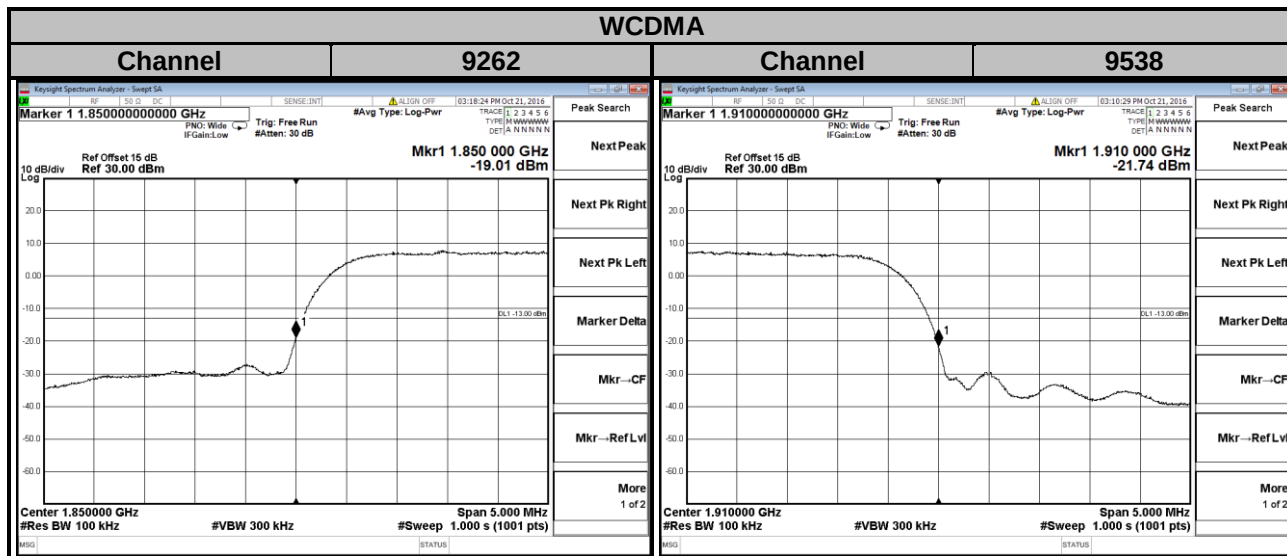
4.4.2 Test Setup

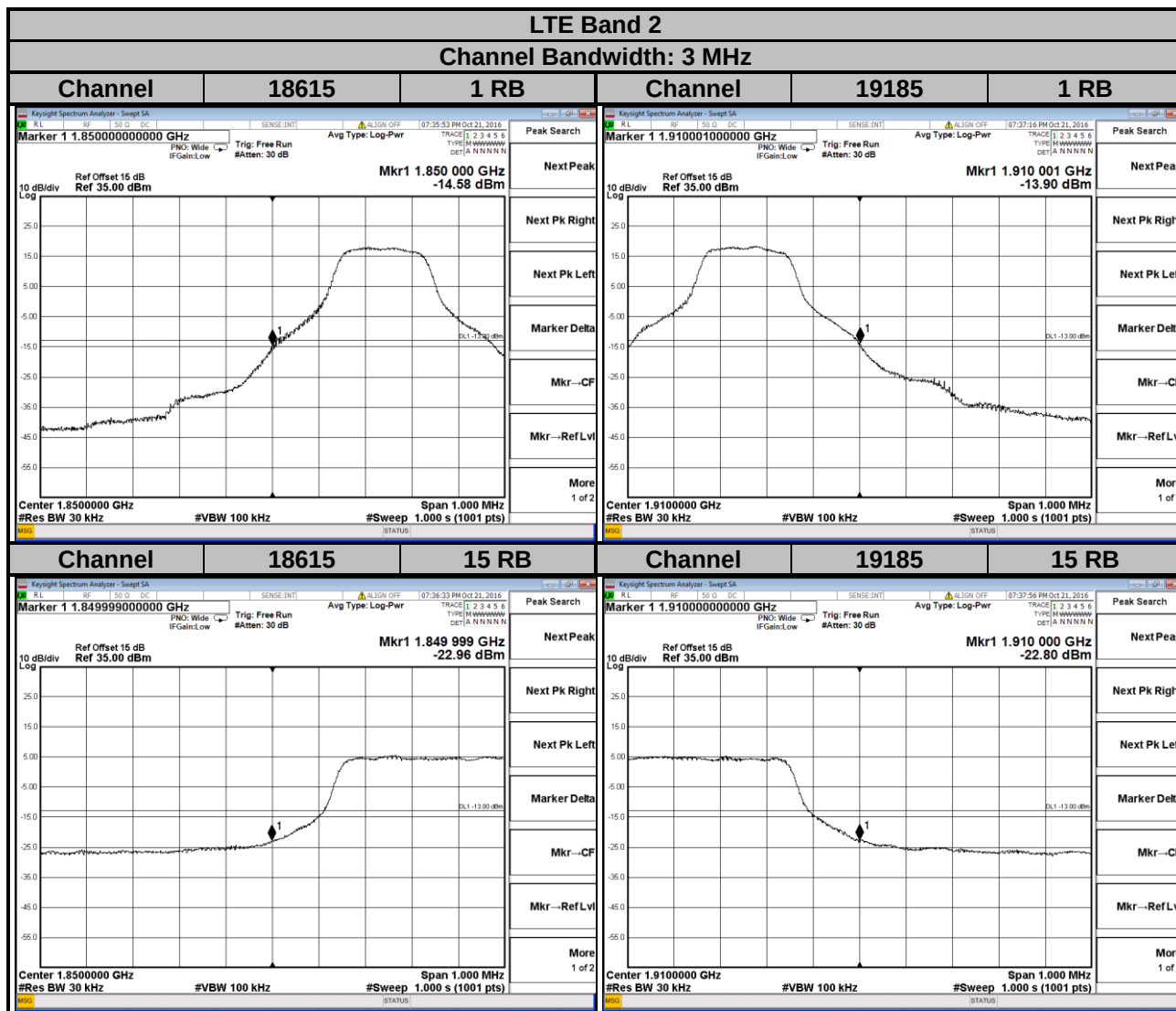


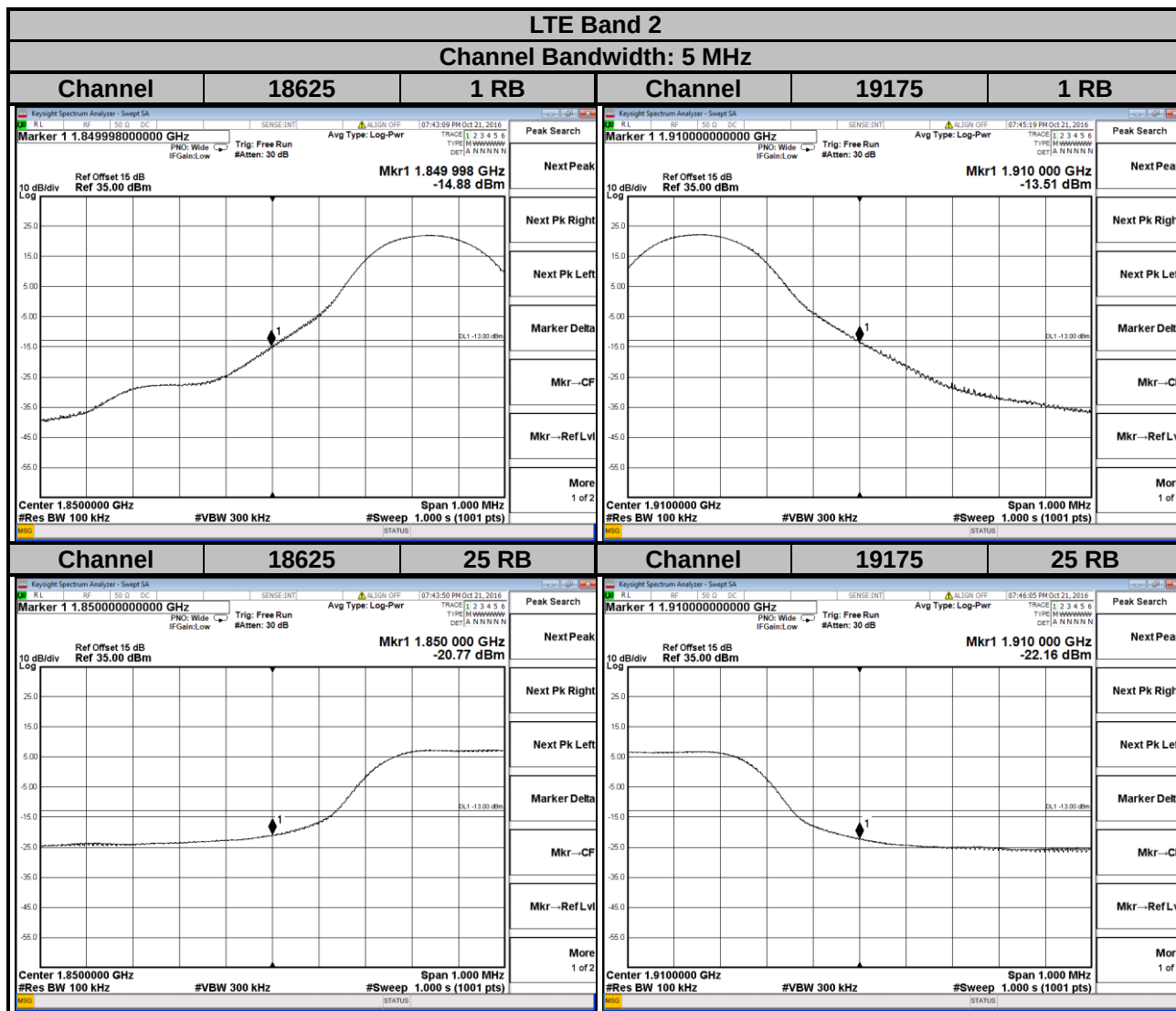
4.4.3 Test Procedures

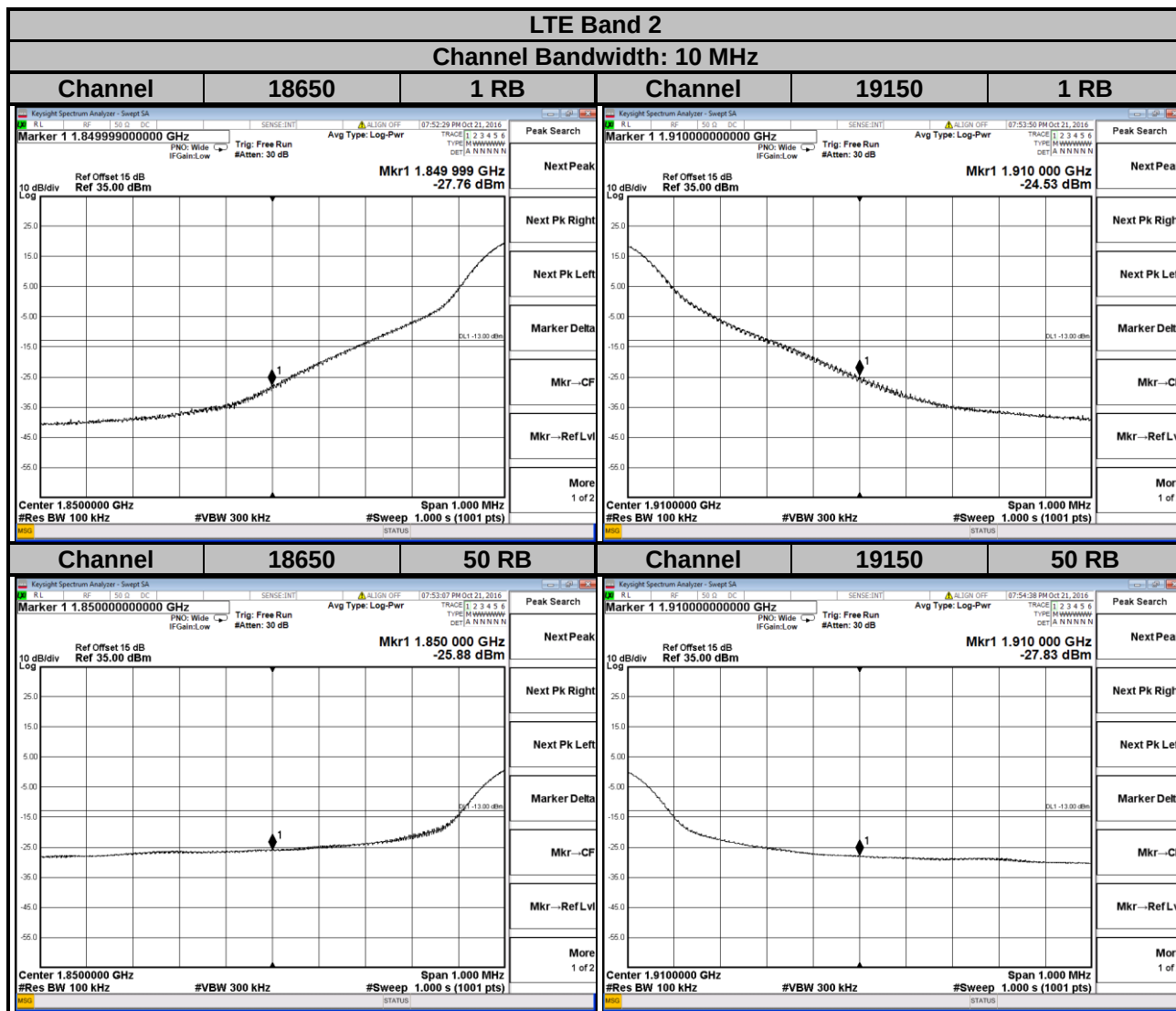
- All measurements were done at low and high operational frequency range.
- The center frequency of spectrum is the band edge frequency and span is 5 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (WCDMA).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 13 kHz and VB of the spectrum is 51 kHz (LTE Bandwidth 1.4 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 30 kHz and VB of the spectrum is 100 kHz (LTE Bandwidth 3 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (LTE Bandwidth 5 MHz/10 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 150 kHz and VB of the spectrum is 470 kHz (LTE Bandwidth 15 MHz).
- The center frequency of spectrum is the band edge frequency and span is 1 MHz. RB of the spectrum is 180 kHz and VB of the spectrum is 560 kHz (LTE Bandwidth 20 MHz).
- Record the max trace plot into the test report.

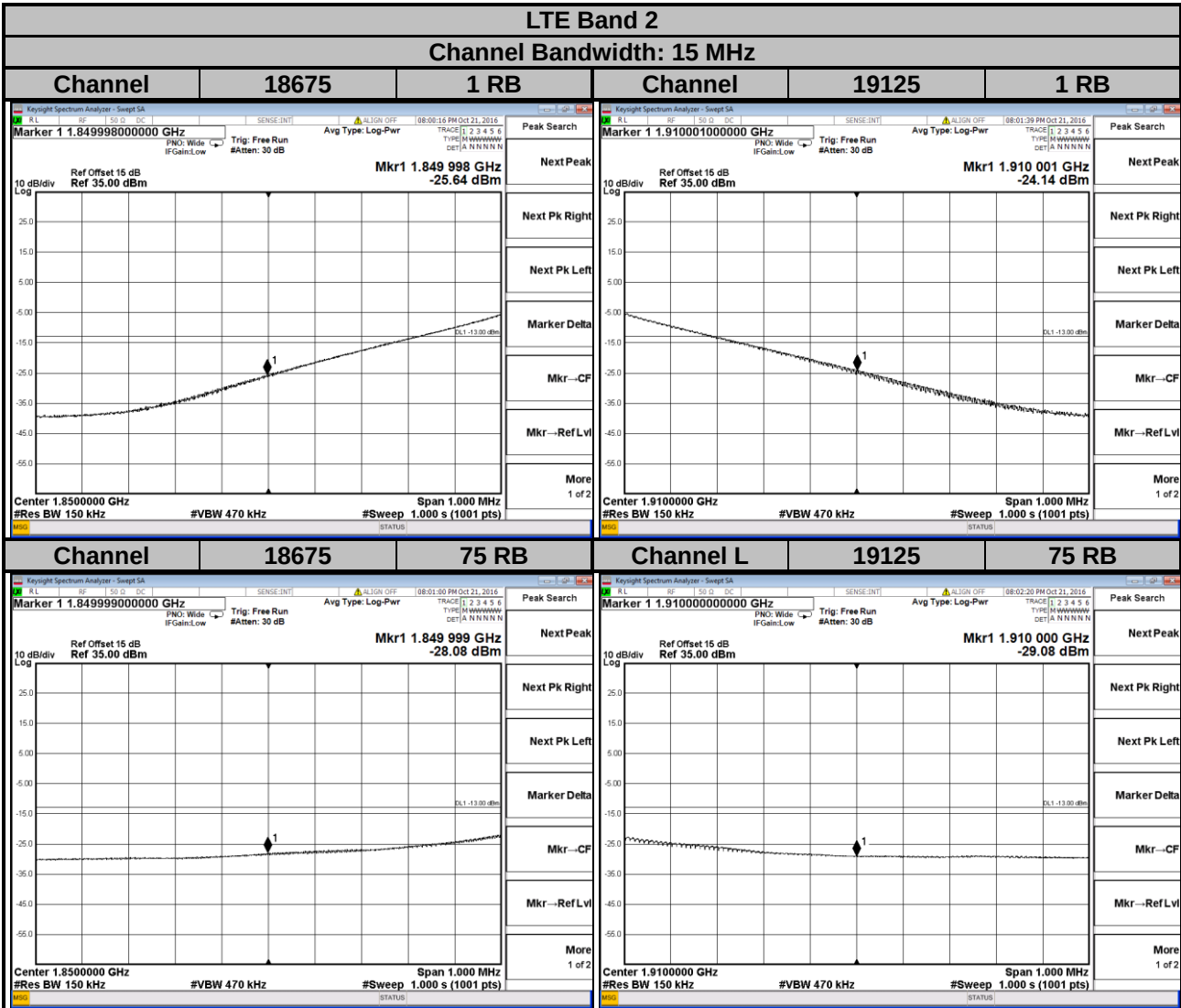
4.4.4 Test Results

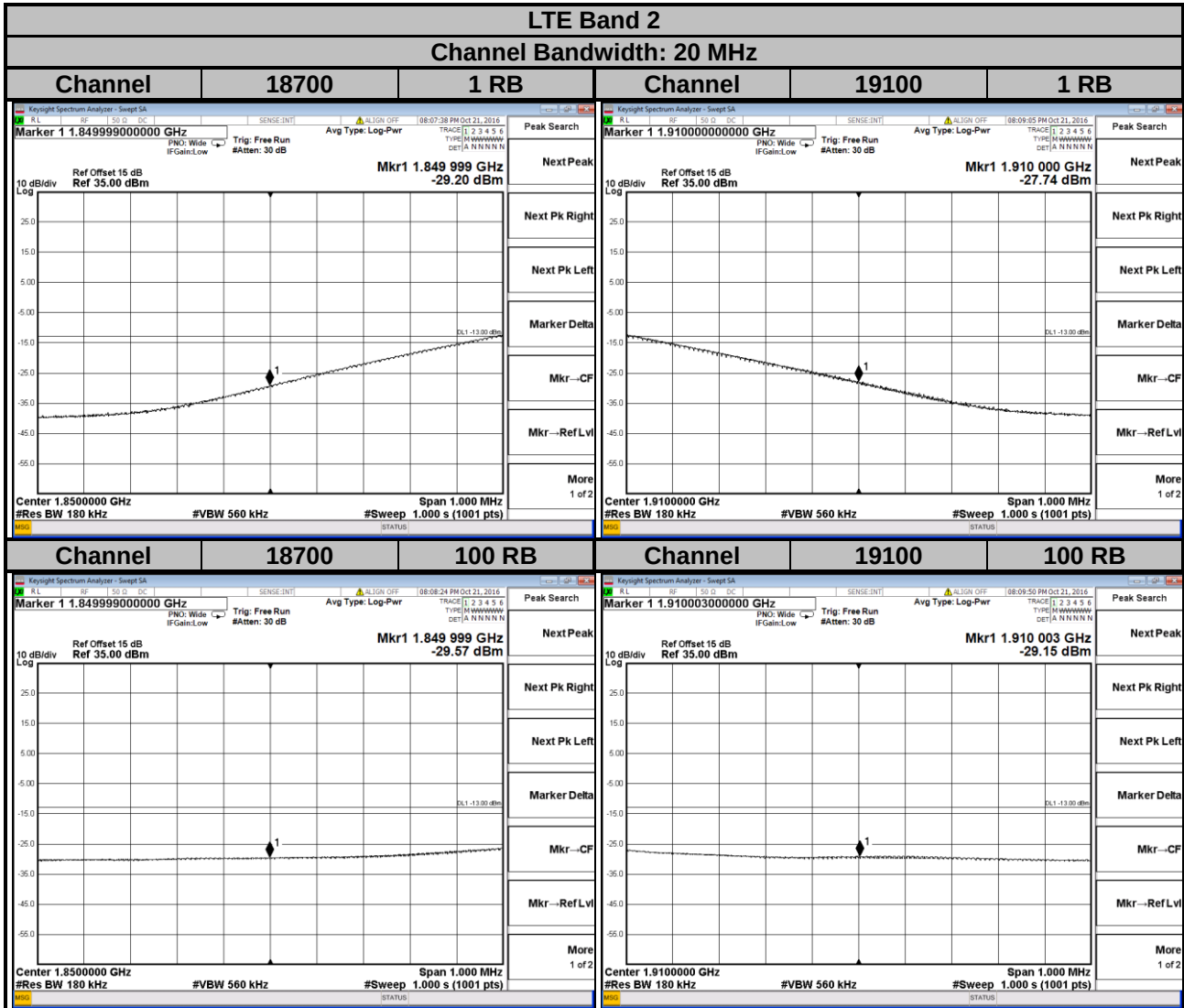










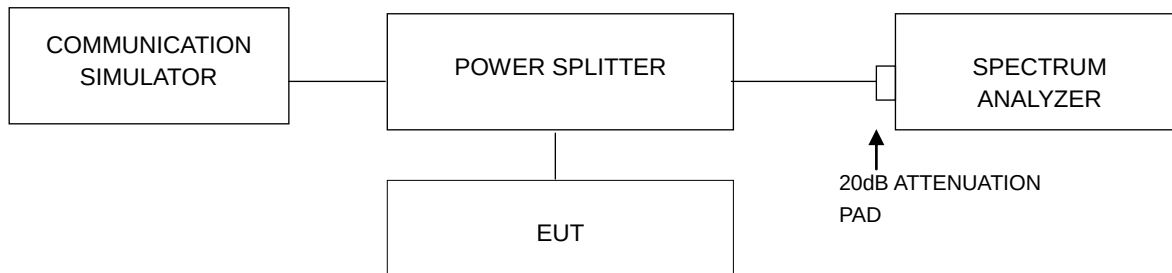


4.5 Peak to Average Ratio

4.5.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.5.2 Test Setup

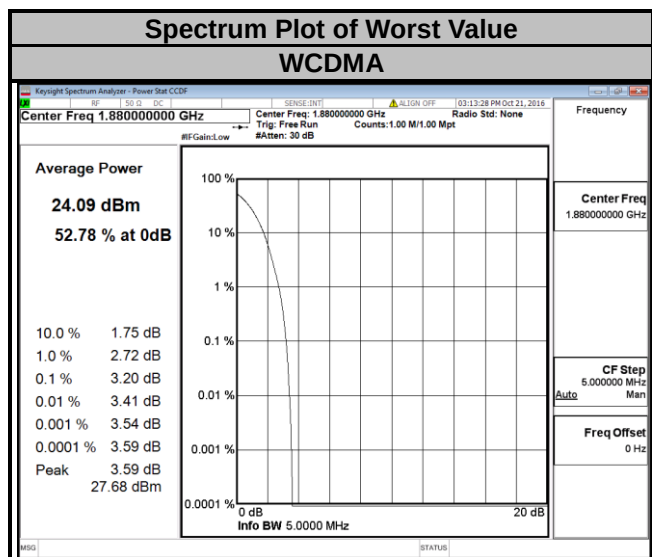


4.5.3 Test Procedures

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1 %.

4.5.4 Test Results

Channel	Frequency (MHz)	Peak to Average Ratio (dB)
		WCDMA
9262	1852.4	2.62
9400	1880.0	2.82
9538	1907.6	3.20



LTE Band 2

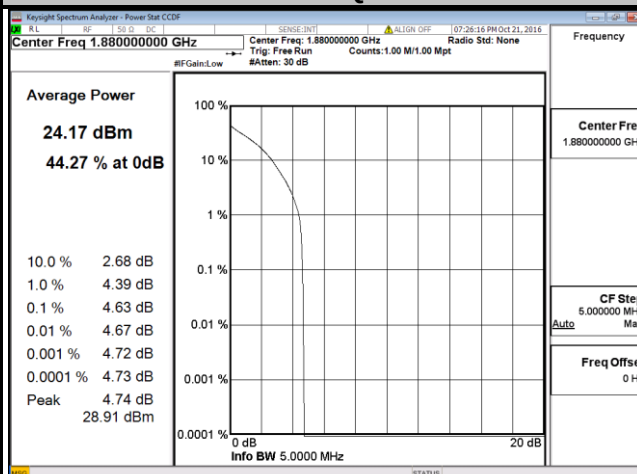
Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 3 MHz

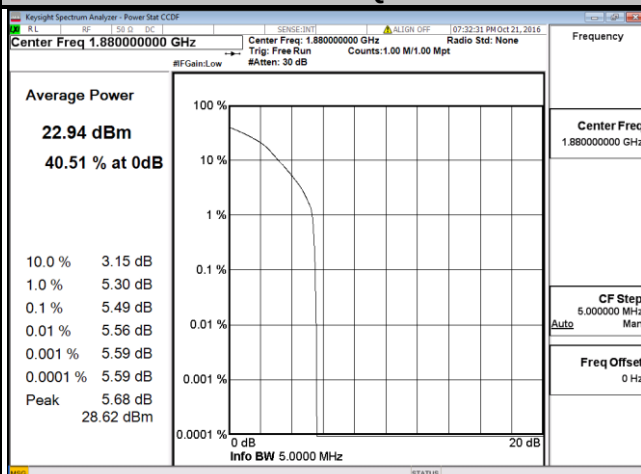
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	3.38	4.21	18615	1851.5	3.32	4.35
18900	1880.0	4.63	5.49	18900	1880.0	4.62	5.60
19193	1909.3	3.31	4.00	19185	1908.5	3.37	4.38

Spectrum Plot of Worst Value

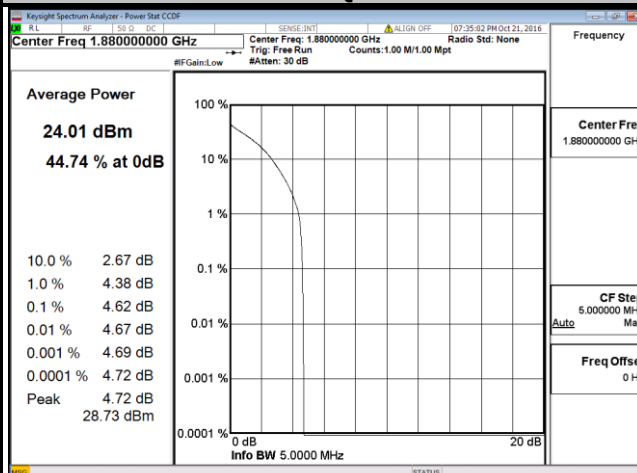
1.4 MHz / QPSK



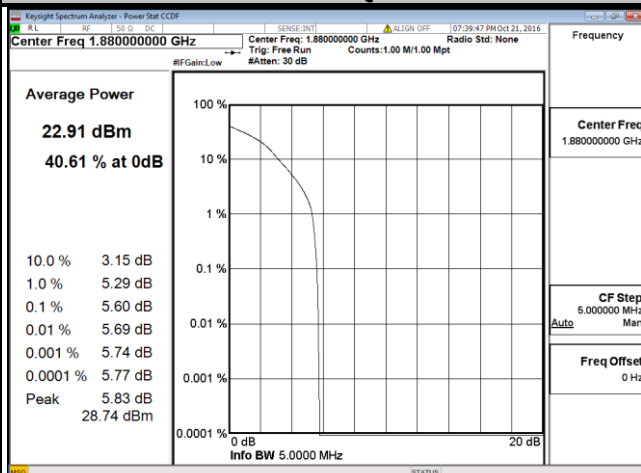
1.4 MHz / 16QAM



3 MHz / QPSK



3 MHz / 16QAM



LTE Band 2

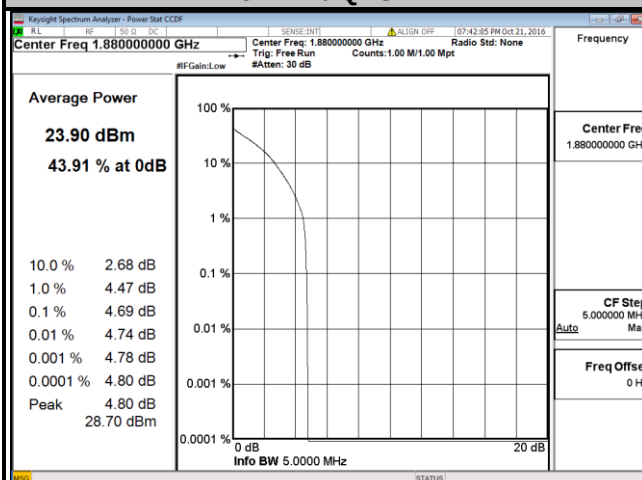
Channel Bandwidth: 5 MHz

Channel Bandwidth: 10 MHz

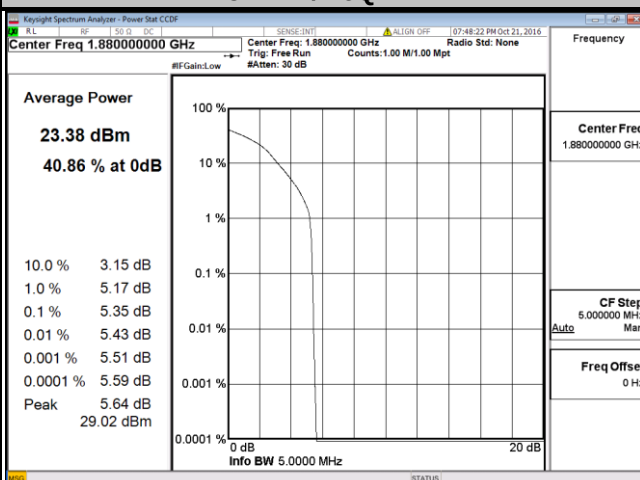
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	3.30	4.40	18650	1855.0	3.18	4.26
18900	1880.0	4.69	5.35	18900	1880.0	4.75	5.70
19175	1907.5	3.74	4.84	19150	1905.0	4.47	5.39

Spectrum Plot of Worst Value

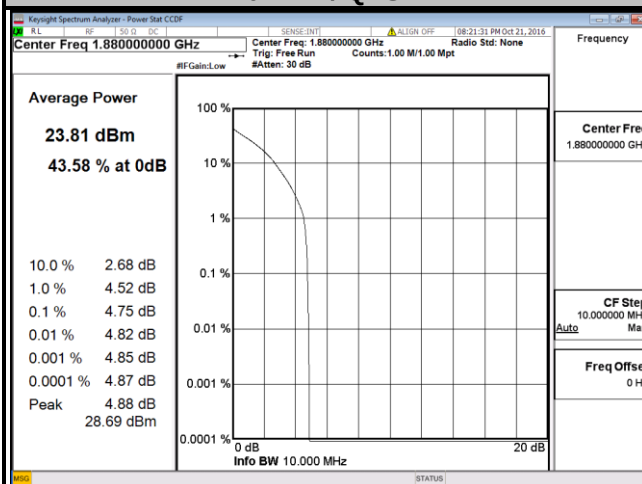
5 MHz / QPSK



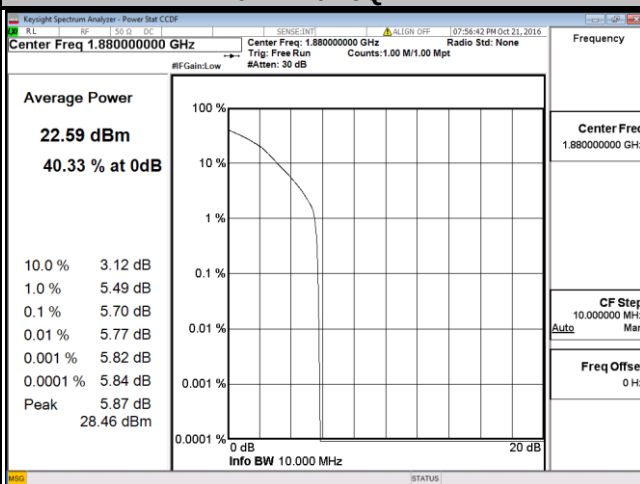
5 MHz / 16QAM



10 MHz / QPSK



10 MHz / 16QAM



LTE Band 2

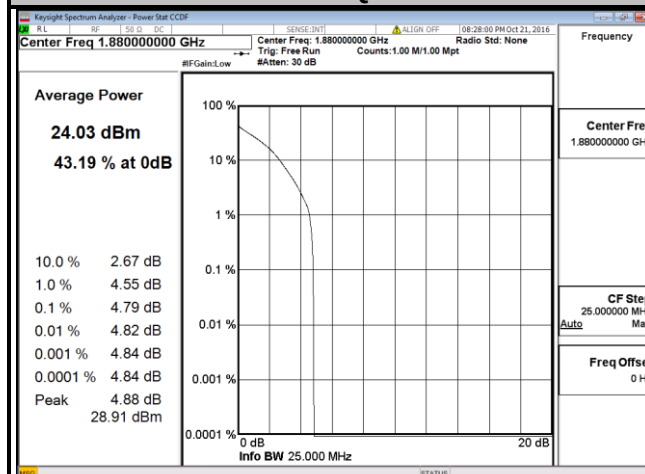
Channel Bandwidth: 15 MHz

Channel Bandwidth: 20 MHz

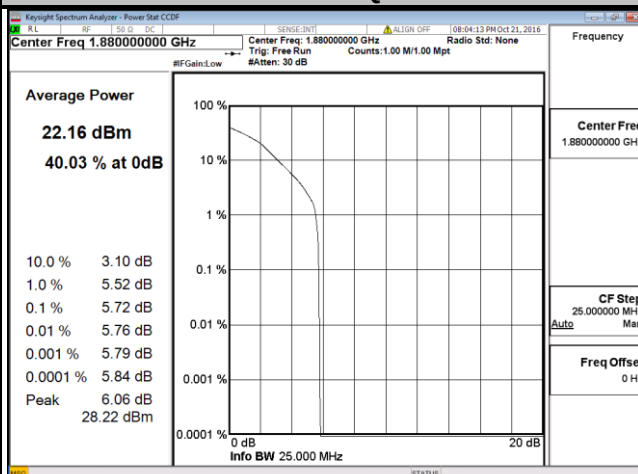
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	3.39	4.20	18700	1860.0	3.25	4.28
18900	1880.0	4.79	5.72	18900	1880.0	4.72	5.80
19125	1902.5	4.43	5.23	19100	1900.0	4.14	5.13

Spectrum Plot of Worst Value

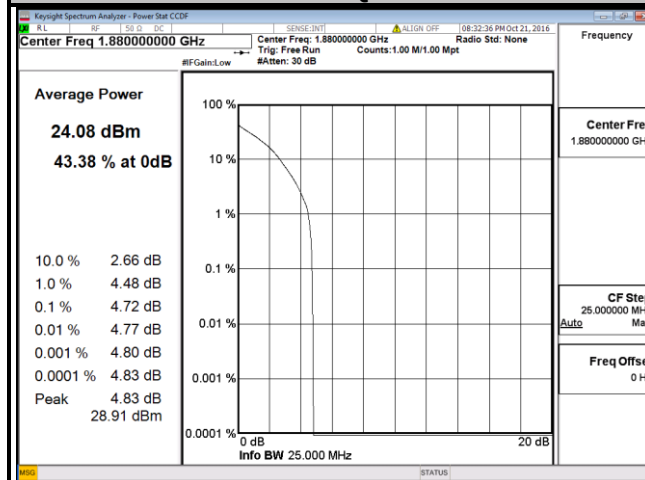
15 MHz / QPSK



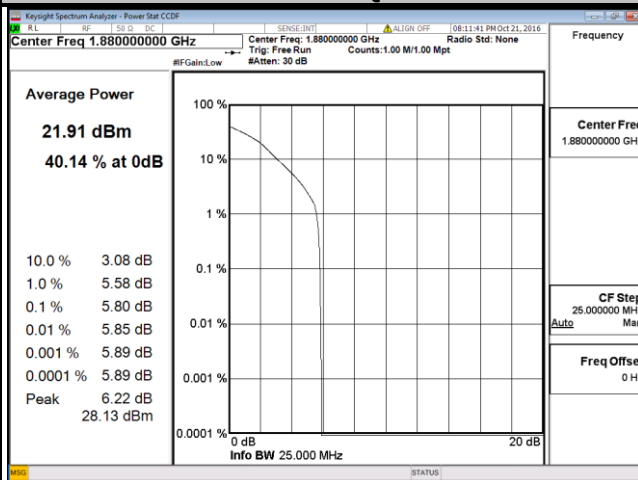
15 MHz / 16QAM



20 MHz / QPSK



20 MHz / 16QAM

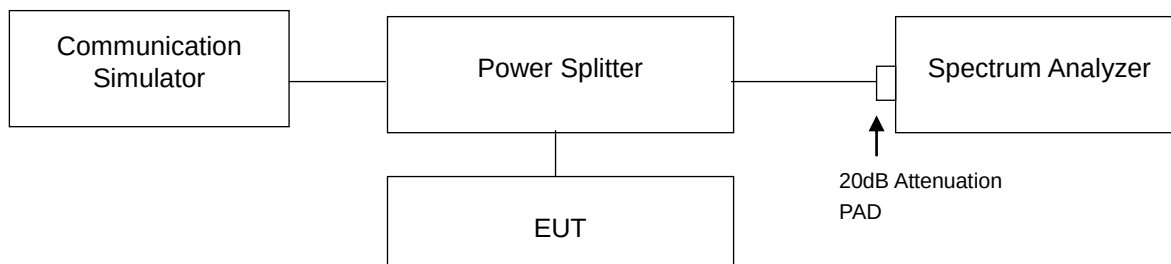


4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13 dBm.

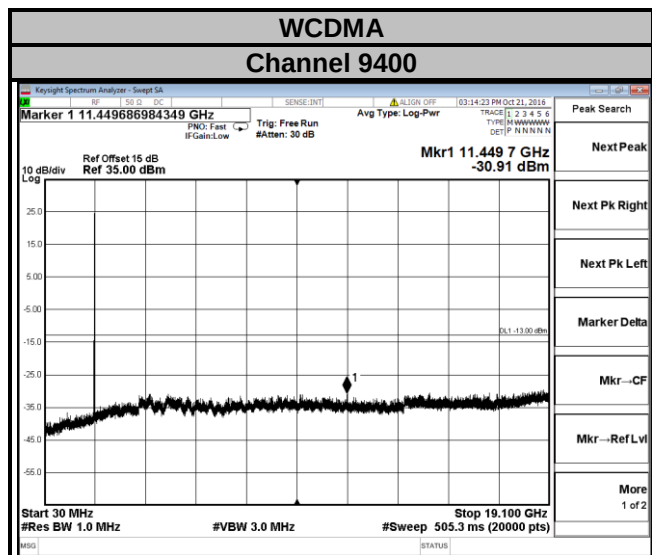
4.6.2 Test Setup



4.6.3 Test Procedure

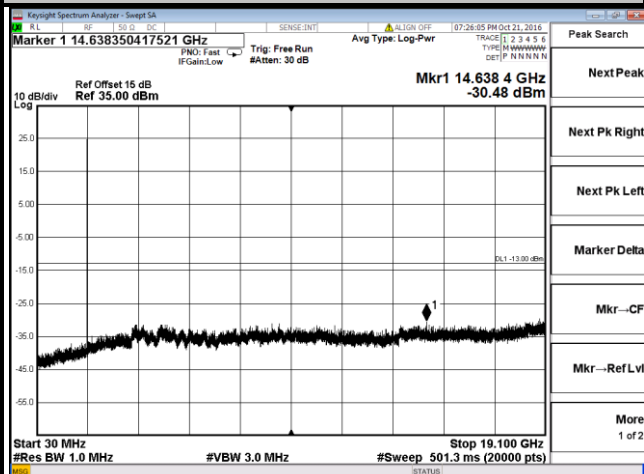
- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 9 GHz. 20 dB attenuation pad is connected with spectrum. RBW=1 MHz and VBW=3 MHz is used for conducted emission measurement.

4.6.4 Test Results

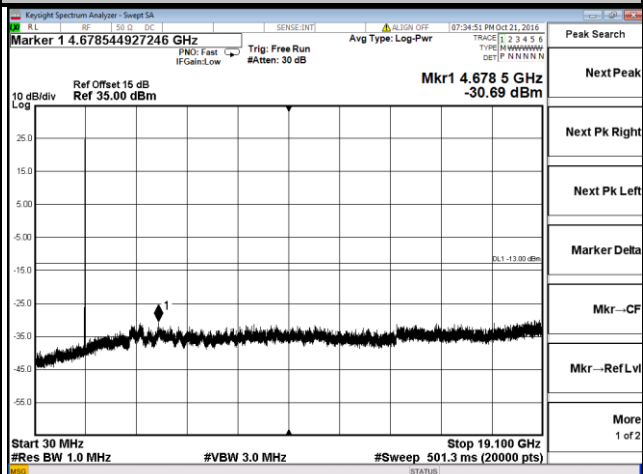


LTE Band 2 Channel 18900

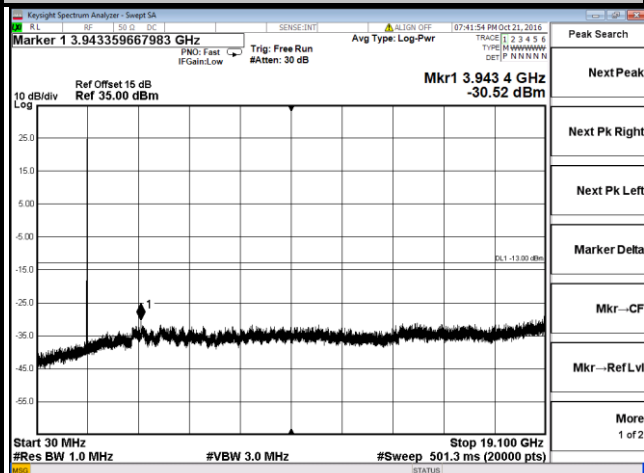
Channel Bandwidth: 1.4 MHz



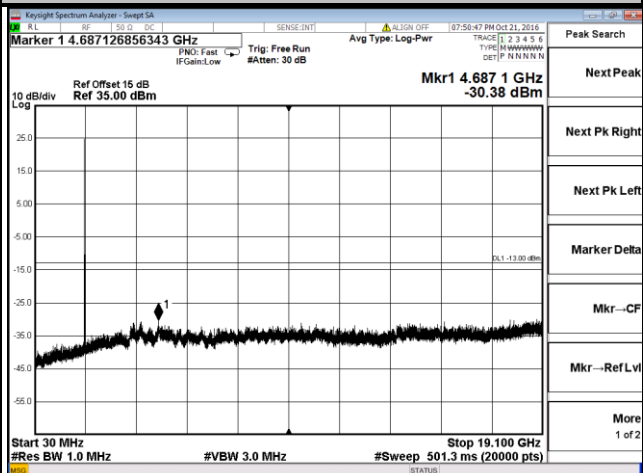
Channel Bandwidth: 3 MHz



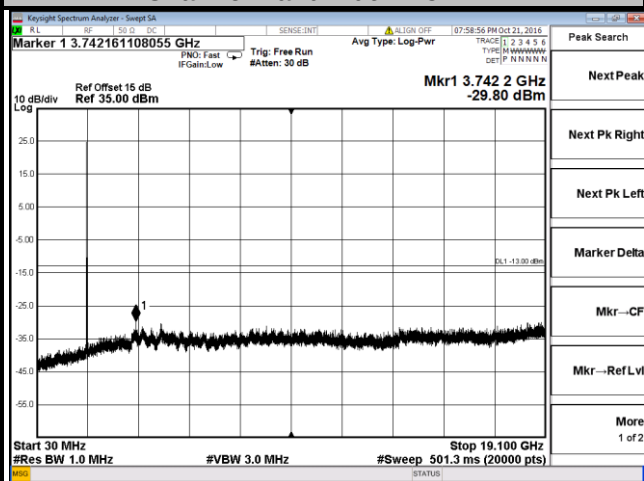
Channel Bandwidth: 5 MHz



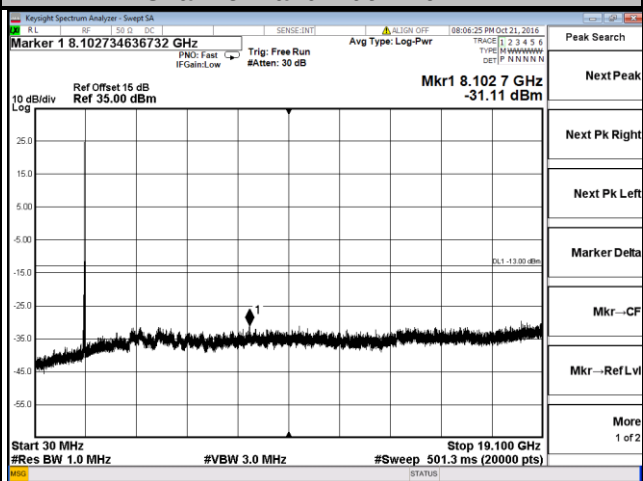
Channel Bandwidth: 10 MHz



Channel Bandwidth: 15 MHz



Channel Bandwidth: 20 MHz



4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit is equal to -13 dBm.

4.7.2 Test Procedure

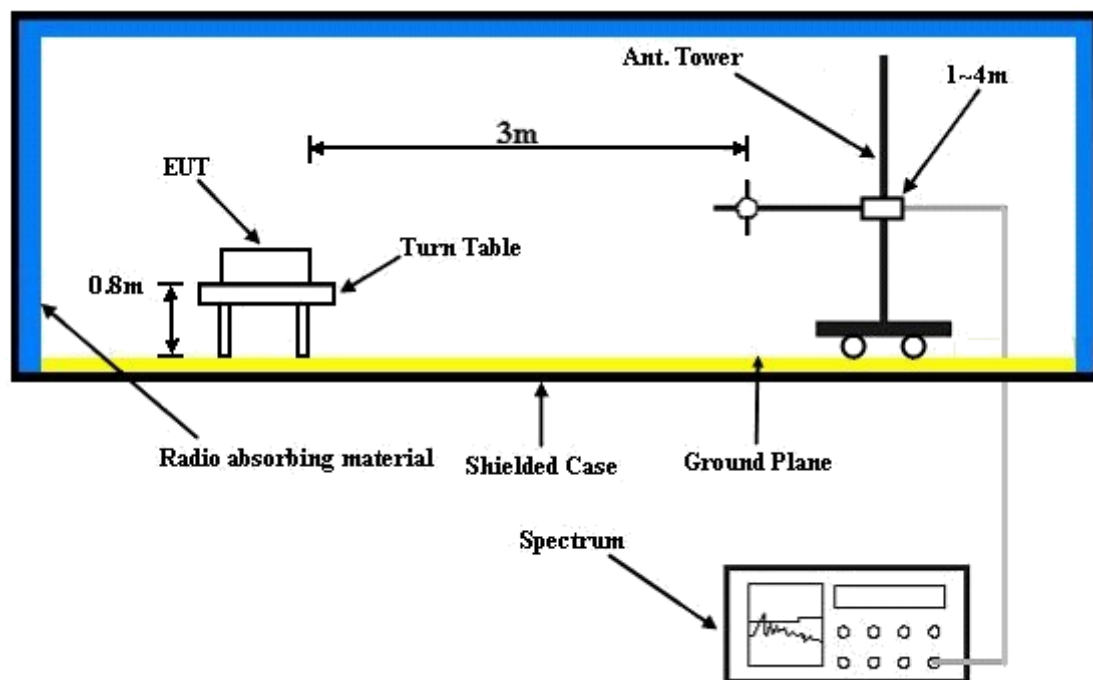
- Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G.
- EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15 dBi.

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

4.7.3 Deviation from Test Standard

No deviation.

4.7.4 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.7.5 Test Results

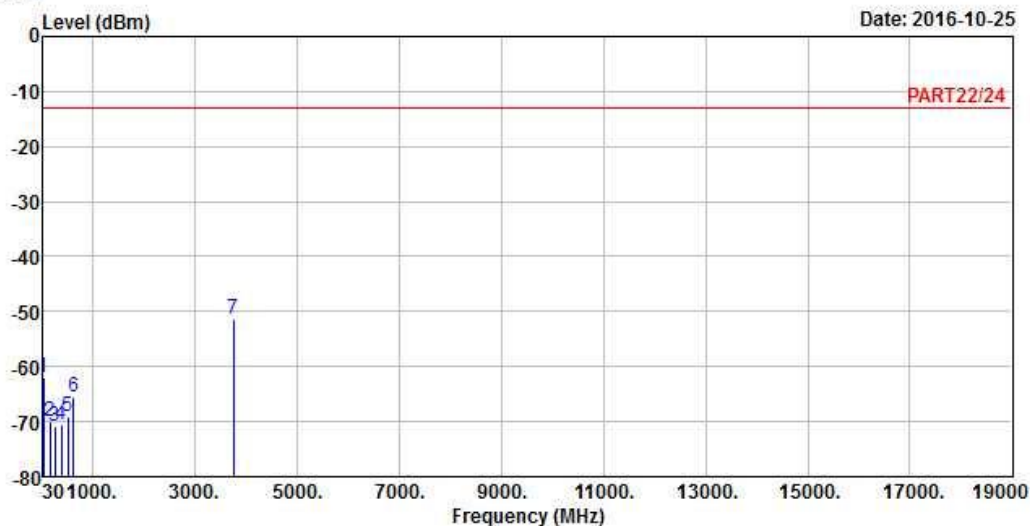
WCDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 Chamber 5
Condition: PART22/24 HORIZONTAL
Remak : WCDMA Band II Link
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-61.88	-60.94	-13.00	-48.88	-0.94	Peak
2	159.98	-70.07	-65.23	-13.00	-57.07	-4.84	Peak
3	256.01	-70.88	-64.77	-13.00	-57.88	-6.11	Peak
4	391.81	-70.62	-64.63	-13.00	-57.62	-5.99	Peak
5	508.21	-69.20	-64.87	-13.00	-56.20	-4.33	Peak
6	624.61	-65.47	-64.65	-13.00	-52.47	-0.82	Peak
7 pp	3760.00	-51.42	-43.36	-13.00	-38.42	-8.06	Peak

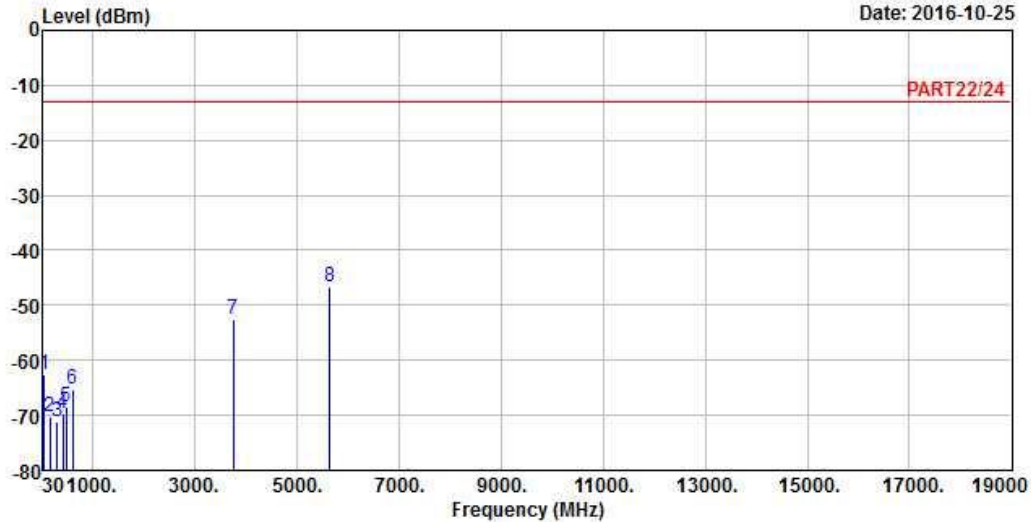


Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 8

Date: 2016-10-25



Site : 966 Chamber 5
Condition: PART22/24 VERTICAL
Remak : WCDMA Band II Link
Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.58	-62.50	-61.03	-13.00	-49.50	-1.47	Peak
2	160.95	-70.20	-65.29	-13.00	-57.20	-4.91	Peak
3	305.48	-71.17	-64.25	-13.00	-58.17	-6.92	Peak
4	418.97	-69.55	-63.76	-13.00	-56.55	-5.79	Peak
5	486.87	-68.43	-63.57	-13.00	-55.43	-4.86	Peak
6	601.33	-65.23	-64.47	-13.00	-52.23	-0.76	Peak
7	3760.00	-52.63	-44.57	-13.00	-39.63	-8.06	Peak
8 pp	5640.00	-46.63	-44.69	-13.00	-33.63	-1.94	Peak

LTE Band 2

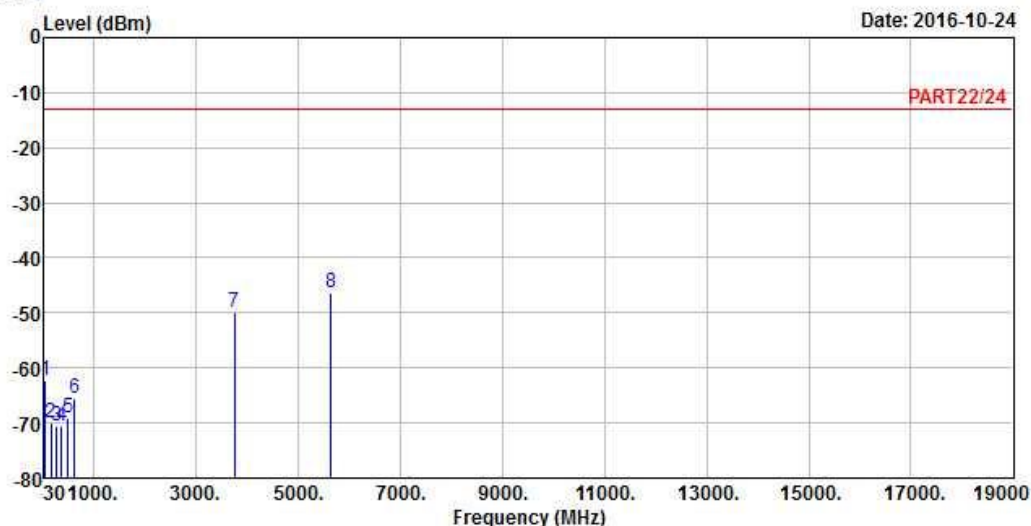
Channel Bandwidth: 20 MHz / QPSK



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

A D T

Data: 7



Site : 966 Chamber 5

Condition: PART22/24 HORIZONTAL

Remak : LTE Band II_QPSK_20M Link

Tested by: Getaz Yang

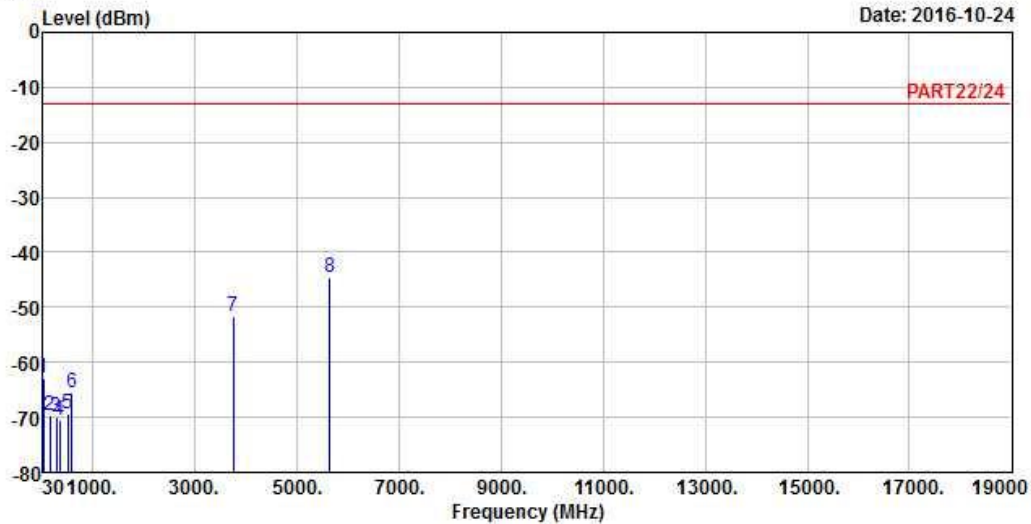
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	43.58	-62.42	-60.95	-13.00	-49.42	-1.47	Peak
2	159.01	-69.82	-64.70	-13.00	-56.82	-5.12	Peak
3	276.38	-70.68	-64.15	-13.00	-57.68	-6.53	Peak
4	365.62	-70.61	-64.46	-13.00	-57.61	-6.15	Peak
5	488.81	-69.11	-64.28	-13.00	-56.11	-4.83	Peak
6	623.64	-65.60	-64.78	-13.00	-52.60	-0.82	Peak
7	3760.00	-49.94	-41.88	-13.00	-36.94	-8.06	Peak
8 pp	5640.00	-46.29	-44.35	-13.00	-33.29	-1.94	Peak



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

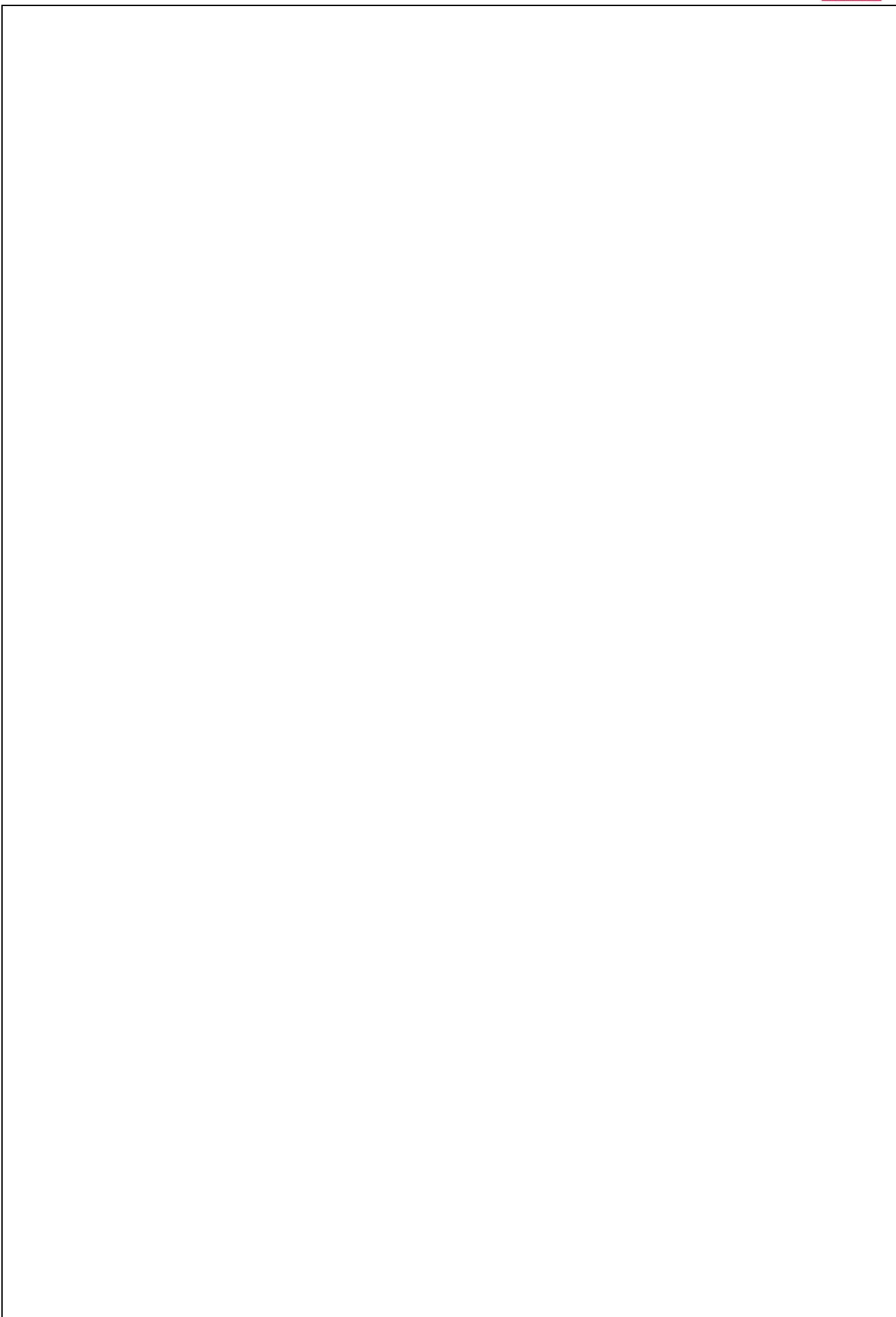
A D T

Data: 8



Site : 966 Chamber 5
 Condition: PART22/24 VERTICAL
 Remak : LTE Band II_QPSK_20M Link
 Tested by: Getaz Yang

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	42.61	-62.90	-61.96	-13.00	-49.90	-0.94	Peak
2	159.98	-69.58	-64.74	-13.00	-56.58	-4.84	Peak
3	285.11	-69.90	-63.19	-13.00	-56.90	-6.71	Peak
4	345.25	-70.64	-64.33	-13.00	-57.64	-6.31	Peak
5	510.15	-69.39	-65.12	-13.00	-56.39	-4.27	Peak
6	591.63	-65.60	-64.48	-13.00	-52.60	-1.12	Peak
7	3760.00	-51.71	-43.65	-13.00	-38.71	-8.06	Peak
8 pp	5640.00	-44.64	-42.70	-13.00	-31.64	-1.94	Peak



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Hsin Chu EMC/RF/Telecom Lab

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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