

# **CERTIFICATION TEST REPORT**

**Report Number.**: 12132731-E4V3

**Applicant:** SONY MOBILE COMMUNICATIONS, INC.

4-12-3 HIGASHI-SHINAGAWA,

SHINAGAWA -KU, TOKYO, 140-0002, JAPAN

**FCC ID**: PY7-68553C

**EUT Description :** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac &

NFC

Test Standard(s): FCC 47 CFR PART 15 SUBPART C

Date Of Issue: May 04, 2018

Prepared by:

UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A. TEL: (510) 771-1000

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REPORT NO: 12132731-E4V3 DATE: 5/4/2018 FCC ID: PY7-68553C

## **REPORT REVISION HISTORY**

Rev.	Issue Date	Revisions	Revised By
V1	4/19/2018	Initial Issue	
V2	5/2/2018	Updated Section 5.3 & 8.3.3	Kiya Kedida
V3	5/4/2018	Updated Section 5.5	Kiya Kedida

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## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** SONY MOBILE COMMUNICATIONS, INC.

4-12-3 HIGASHI-SHINAGAWA,

SHINAGAWA -KU, TOKYO, 140-0002, JAPAN

DATE: 5/4/2018

**EUT DESCRIPTION:** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac &

NFC

SERIAL NUMBER: CB512FH68Z (RADIATED)

CB512FHBUA (CONDUCTED)

**DATE TESTED:** March 22 to April 06, 2018

#### **APPLICABLE STANDARDS**

STANDARD TEST RESULTS

CFR 47 Part 15 Subpart C Complies

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of the U.S. government.

Approved & Released For UL Verification Services Inc. By:

Reviewed By:



Dan Coronia
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Kiya Kedida CONSUMER TECHNOLOGY DIVISION Project Engineer UL Verification Services Inc.

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB 558074 D01 v04, KDB 662911 D01 v02r01 and ANSI C63.10-2013.

## 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
Chamber A (ISED:2324B-1)	☐ Chamber D (ISED:22541-1)
Chamber B (ISED:2324B-2)	Chamber E (ISED:22541-2)
Chamber C (ISED:2324B-3)	Chamber F (ISED:22541-3)
	☐ Chamber G (ISED:22541-4)
	Chamber H (ISED:22541-5)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. Chambers A through C are covered under ISED company address code 2324B with site numbers 2324B -1 through 2324B-3, respectively. Chambers D through H are covered under ISED company address code 22541 with site numbers 22541 -1 through 22541-5, respectively.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://nist.gov/standards/scopes/2000650.htm.

#### 4. CALIBRATION AND UNCERTAINTY

## 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

#### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB - 26.9 dB = 28.9 dBuV/m

#### 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.84 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.65 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	3.15 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	5.36 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.32 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.45 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.24 dB

Uncertainty figures are valid to a confidence level of 95%.

DATE: 5/4/2018

## 5. EQUIPMENT UNDER TEST

#### 5.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac & NFC.

#### **5.2. MAXIMUM OUTPUT POWER**

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)			Output Power (mW)
2Tx			
2412 - 2472	802.11b	12.50	17.78
2412 - 2472	802.11g	12.39	17.34
2412 - 2472	802.11n HT20 CDD	12.49	17.74

#### 5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a loop antenna for chain 0 and a monopole antenna for chain 1, with the maximum gains:

Frequency Band (GHz)	Antenna Gain (dBi) Chain 0	Antenna Gain (dBi) Chain 1
2402-2480	-1.20	-9.30

#### **5.4. SOFTWARE AND FIRMWARE**

The firmware installed in the EUT during testing was s\_atp\_XXX\_0\_00403\_A\_9. The test utility software used during testing was Tera Term Ver 4.79.

#### 5.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below Below 30MHz, 1GHz, above 18GHz, and AC power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as a worst-case scenario.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle and high channels.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, & Z, and it was determined that Z-Axis with AC/DC Adapter was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z-Axis with AC/DC Adapter orientation.

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps 802.11g mode: 6 Mbps 802.11n HT20mode: MCS0

The simultaneous mode (SISO 2.4GHz Chain 0 and 5GHz chain 1) was checked and standalone (MIMO) 2.4 GHz / 5GHz remain the worst case.

NOTE: SISO mode is covered by MIMO mode due to same maximum tune-up limit (power).

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## 5.6. DESCRIPTION OF TEST SETUP

#### **SUPPORT EQUIPMENT**

Support Equipment List								
Description Manufacturer Model Serial Number FCC ID								
Laptop	Lenovo	20B7S0A200	PC015REW	NA				
AC Adapter	SONY	UCH12	4016W40310044	NA				
DC Power Supply	Ametek	XT 15-4	T463	N/A				

#### **I/O CABLES (CONDUCTED TEST)**

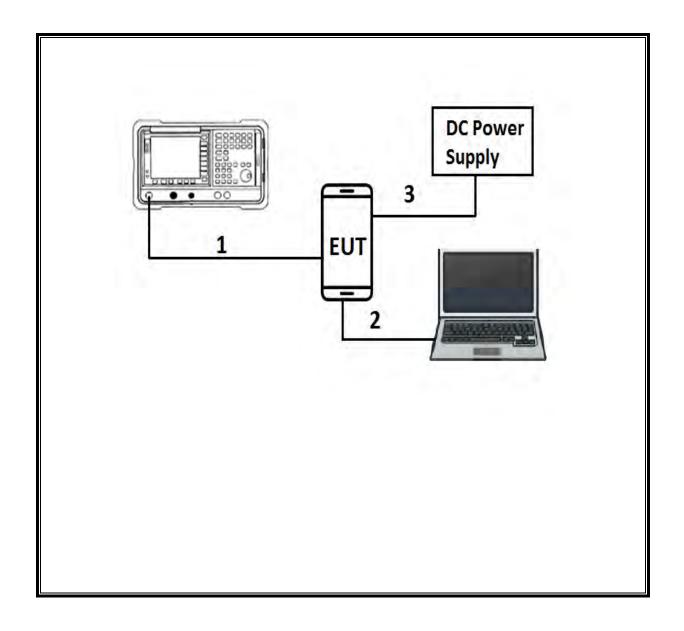
	I/O Cable List									
Cable	Cable Port # of identical Connector Cable Type Cable					Remarks				
No		ports	Туре		Length (m)					
1	Antenna	1	RF	Shielded	0.2	To spectrum Analyzer				
2	USB	1	USB	Shielded	1	N/A				
3	DC	1	DC	Shielded	0.3	N/A				

## I/O CABLES (RADIATED AND CONDUCTED EMISSIONS)

	I/O Cable List								
Cable	Cable Port # of identical Connector Cable Type Cable Remarks								
No		ports	Туре		Length (m)				
1	USB	1	USB	Shielded	3	N/A			

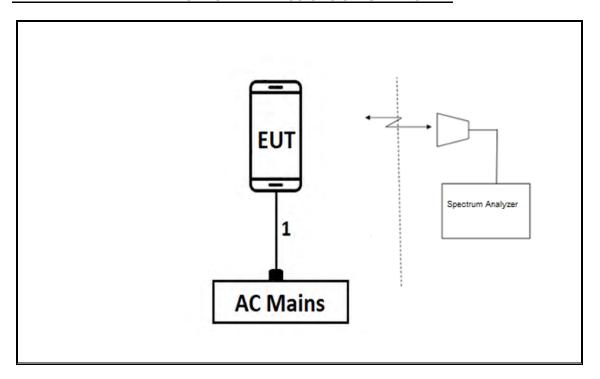
#### **TEST SETUP**

#### **SETUP DIAGRAM FOR CONDUCTED TESTS**



#### **TEST SETUP**

#### RADIATED AND AC LINE CONDUCTED EMISSIONS SETUP DIAGRAM



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## 6. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 558074 D01 v04, Section 6.

6 dB BW: KDB 558074 D01 v04, Section 8.1.

Output Power: KDB 558074 D01 v04, Section 9.2.3.2.

Power Spectral Density: KDB 558074 D01 v04, Section 10.3 & 10.5.

Out-of-band emissions in non-restricted bands: KDB 558074 D01 v04, Section 11.1 (b).

Out-of-band emissions in restricted bands: KDB 558074 D01 v04, Section 12.1.

Band-edge: KDB 558074 D01 v04, Section 12.1.

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

DATE: 5/4/2018

## 7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST										
Description										
Amplifier, 10KHz to 1GHz, 32dB	Agilent (Keysight)	8447D	T15	08/14/2018						
	Technologies									
Amplifier, 1 - 18GHz	MITEQ	AFS42-00101800- 25-S-42	T931	09/20/2018						
Amplifier, 1 to 18GHz	Miteq	AFS42-00101800- 25-S-42	T1165	11/25/2018						
RF Preamplifier, 1 - 26GHz	Agilent	8449B	T404	07/23/2018						
Antenna, Active Loop 9kHz-30MHz	Com-Power Corp.	AL-130R	T1866	10/10/2018						
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences Corp.	JB3	T130	06/15/2018						
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T120	06/26/2018						
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T862	06/09/2018						
Antenna Horn, 18 to 26GHz	ARA	MWH-1826	T89	01/18/2019						
Power Meter, P-series single channel	Keysight	N1912A	T1245	05/12/2018						
Power Sensor	Keysight	N1921A	T413	06/22/2018						
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1466	04/11/2018						
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1454	01/08/2019						
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1113	12/21/2018						
Spectrum Analyzer, PXA, 3Hz to 44GHz	Agilent (Keysight) Technologies	N9030A	T1450	02/05/2019						
	AC Line Conduct	ted								
EMI Test Receiver 9Khz-7GHz	Rohde & Schwarz	ESCI7	T1124	11/07/2018						
LISN for Conducted Emissions CISPR- 16	Fischer	50/250-25-2-01	T1310	06/15/2018						
Power Cable, Line Conducted Emissions	UL	PG1	T861	08/31/2018						
UL AUTOMATION SOFTWARE										
Radiated Software	UL	UL EMC	Ver 9.5, E	Dec 01, 2016						
Antenna Port Software	UL	UL EMC	Ver 8.2, Feb 28, 2018							
AC Line Conducted Software	UL	UL EMC	Ver 9.5, May 26, 2015							

#### **NOTES:**

- 1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
- 2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

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## 8. ANTENNA PORT TEST RESULTS

## 8.1. ON TIME AND DUTY CYCLE

## **LIMITS**

None; for reporting purposes only.

#### **PROCEDURE**

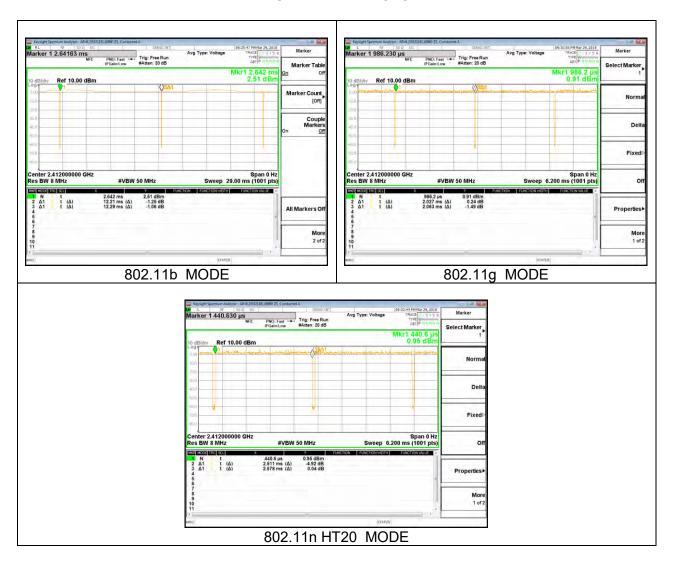
KDB 789033 Zero-Span Spectrum Analyzer Method.

#### **ON TIME AND DUTY CYCLE RESULTS**

Mode	<b>ON Time</b>	Period	<b>Duty Cycle</b>	Duty	Duty Cycle	1/B		
	B x C		Cycle	<b>Correction Factor</b>	Minimum VBW			
	(msec)	(msec)	(linear)	(%)	(dB)	(kHz)		
	2.4GHz Band							
802.11b 1TX	802.11b 1TX							
802.11g 1TX 2.027 2.063 0.983 98.25% 0.00 0.010								
802.11n HT20 1TX	2.511	2.578	0.974	97.40%	0.11	0.398		

DATE: 5/4/2018

#### **DUTY CYCLE PLOTS**



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## 8.2. 6 dB BANDWIDTH

## **LIMITS**

FCC §15.247 (a) (2)

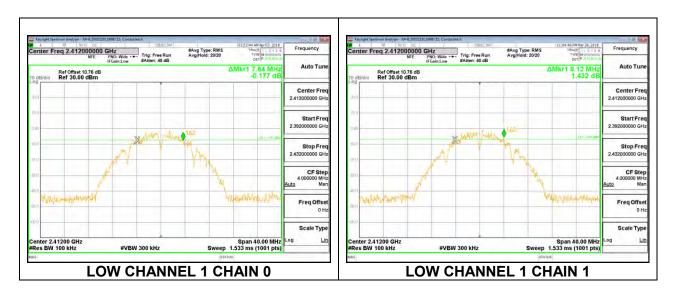
The minimum 6 dB bandwidth shall be at least 500 kHz.

#### **RESULTS**

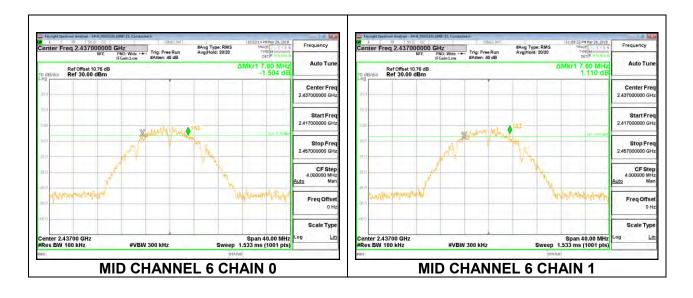
#### 8.2.1. 802.11b MODE

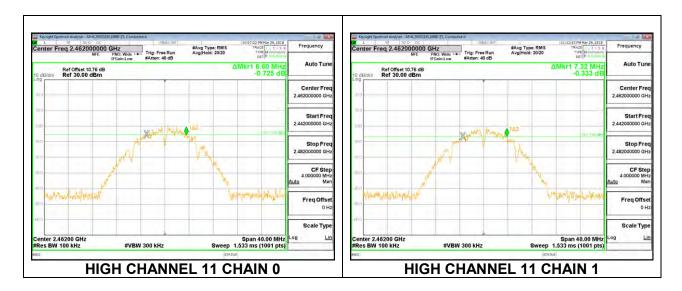
Channel	Frequency	6 dB BW	6 dB BW	Minimum
		Chain 0	Chain 1	Limit
	(MHz)	(MHz)	(MHz)	(MHz)
Low 1	2412	7.64	8.12	0.5
Mid 6	2437	7.60	7.60	0.5
High 11	2462	6.60	7.32	0.5
High 12	2467	7.60	8.08	0.5
High 13	2472	8.08	7.04	0.5

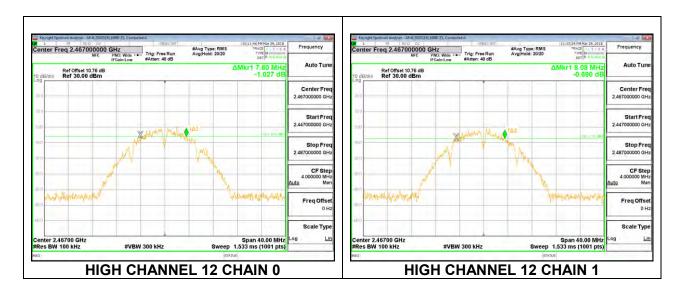
#### **LOW CHANNEL 1**

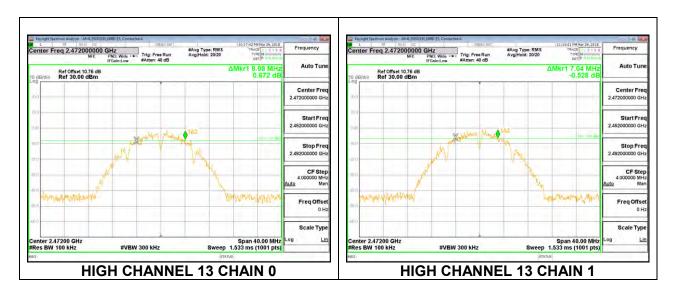


#### **MID CHANNEL 6**





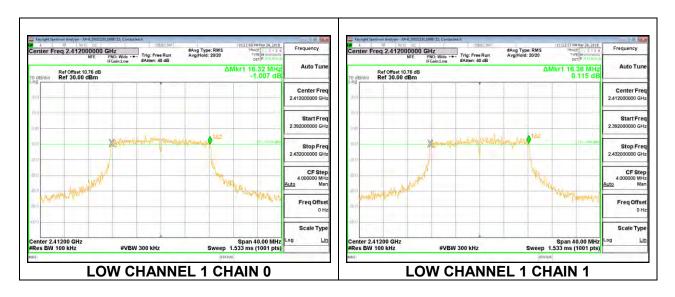




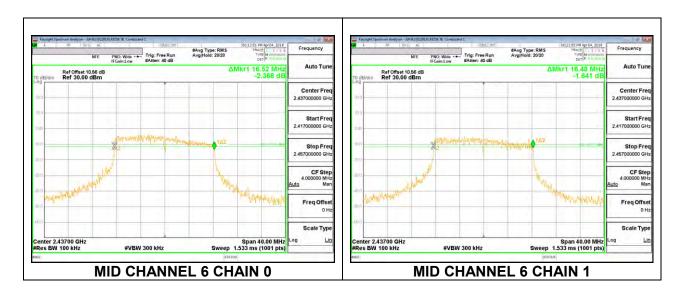
## 8.2.2. 802.11g MODE

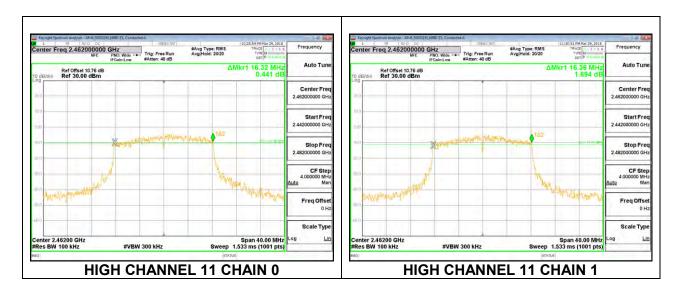
Channel	Frequency	6 dB BW	6 dB BW	Minimum
		Chain 0	Chain 1	Limit
	(MHz)	(MHz)	(MHz)	(MHz)
Low 1	2412	16.32	16.36	0.5
Mid 6	2437	16.52	16.48	0.5
High 11	2462	16.32	16.36	0.5
High 12	2467	16.36	16.32	0.5
High 13	2472	16.48	16.36	0.5

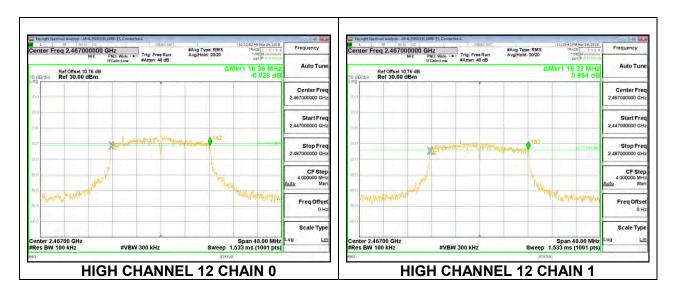
#### **LOW CHANNEL 1**

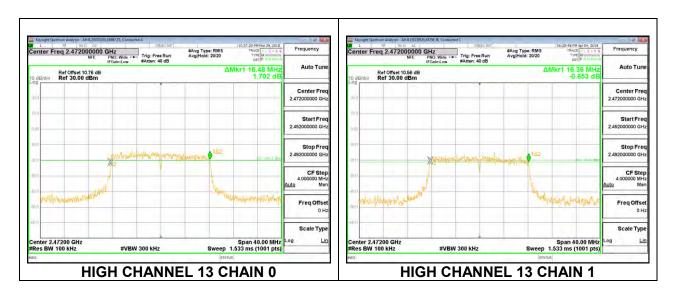


#### **MID CHANNEL 6**







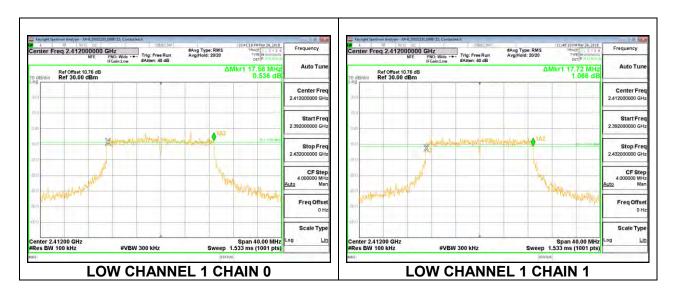


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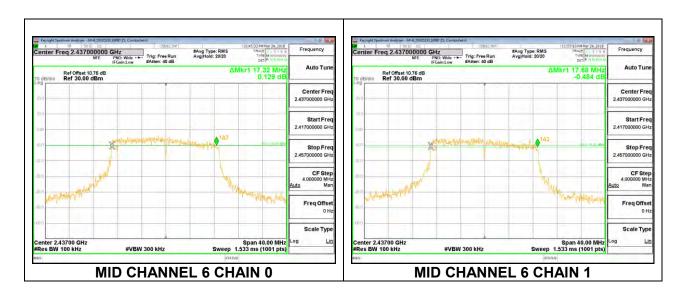
#### 8.2.3. 802.11n HT20 MODE

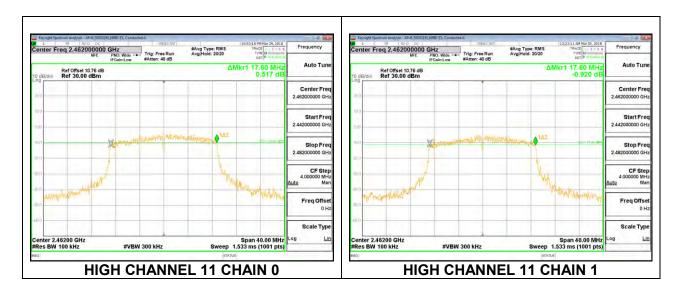
Channel Frequency		6 dB BW	6 dB BW	Minimum
			Chain 1	Limit
	(MHz)	(MHz)	(MHz)	(MHz)
Low 1	2412	17.56	17.72	0.5
Mid 6	2437	17.32	17.68	0.5
High 11	2462	17.60	17.60	0.5
High 12	2467	17.60	17.20	0.5
High 13	2472	17.64	17.64	0.5

#### **LOW CHANNEL 1**

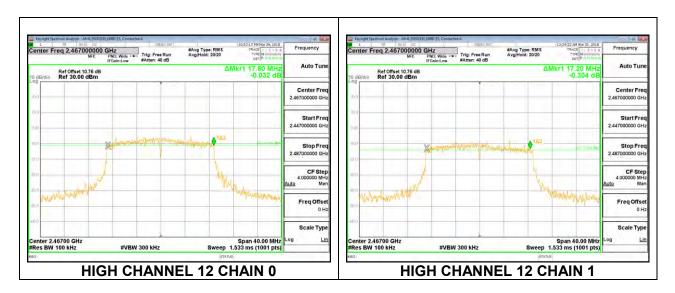


#### **MID CHANNEL 6**

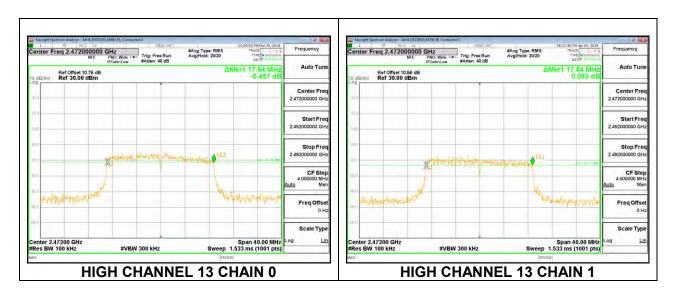




#### **HIGH CHANNEL 12**



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#### 8.3. OUTPUT POWER

#### **LIMITS**

FCC §15.247 (b) (3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **TEST PROCEDURE**

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 10.76 dB (including 10 dB pad and 0.76 dB cable) was entered as an offset in the power meter to allow for a gated peak reading of power.

#### **DIRECTIONAL ANTENNA GAIN**

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

	Chain 0	Chain 1	Uncorrelated Chains	<b>Correlated Chains</b>
	Antenna	Antenna	Directional	Directional
Band	Gain	Gain	Gain	Gain
(GHz)	(dBi)	(dBi)	(dBi)	(dBi)
2.4	-1.20	-9.30	-3.58	-1.33

## 8.3.1. 802.11b MODE

## **RESULTS**

ID: 16080 ZS Date: 03/26	6/18
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#### Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
CH1	2412	-3.58	30.00	30	36	30.00
CH6	2437	-3.58	30.00	30	36	30.00
CH11	2462	-3.58	30.00	30	36	30.00
CH12	2467	-3.58	30.00	30	36	30.00
CH13	2472	-3.58	30.00	30	36	30.00

#### Results

Channel	Frequency	Chain 0 Meas	Chain 1 Meas	Total Corr'd	Power Limit	Margin
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
CH1	2412	10.31	8.47	12.50	30.00	-17.50
CH6	2437	10.26	8.34	12.42	30.00	-17.58
CH11	2462	10.18	8.11	12.28	30.00	-17.72
CH12	2467	9.57	8.41	12.04	30.00	-17.96
CH13	2472	9.50	8.65	12.11	30.00	-17.89

**Note:** the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

## 8.3.2. 802.11g MODE

## **RESULTS**

ID:	16080 ZS	Date:	03/26/18
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#### Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
CH1	2412	-3.58	30.00	30	36	30.00
CH6	2437	-3.58	30.00	30	36	30.00
CH11	2462	-3.58	30.00	30	36	30.00
CH12	2467	-3.58	30.00	30	36	30.00
CH13	2472	-3.58	30.00	30	36	30.00

#### Results

Channel	Frequency	Chain 0	Chain 1	Total	Power	Margin
		Meas	Meas	Corr'd	Limit	
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
CH1	2412	10.27	8.25	12.39	30.00	-17.61
CH6	2437	10.34	8.11	12.38	30.00	-17.62
CH11	2462	10.28	8.14	12.35	30.00	-17.65
CH12	2467	9.33	4.50	10.56	30.00	-19.44
CH13	2472	1.33	-2.52	2.83	30.00	-27.17

<u>Note:</u> the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

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## 8.3.3. 802.11n HT20 MODE

#### **RESULTS**

ID:	16080 ZS	Date:	03/26/18
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#### Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
CH1	2412	-3.58	30.00	30	36	30.00
CH6	2437	-3.58	30.00	30	36	30.00
CH11	2462	-3.58	30.00	30	36	30.00
CH12	2467	-3.58	30.00	30	36	30.00
CH13	2472	-3.58	30.00	30	36	30.00

#### Results

TC Suits						
Channel	Frequency	Chain 0	Chain 1	Total	Power	Margin
		Meas	Meas	Corr'd	Limit	
		Power	Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	(dB)
CH1	2412	10.33	8.25	12.42	30.00	-17.58
CH6	2437	10.52	8.12	12.49	30.00	-17.51
CH11	2462	10.31	8.18	12.38	30.00	-17.62
CH12	2467	8.98	4.39	10.28	30.00	-19.72
CH13	2472	1.03	-3.62	2.31	30.00	-27.69

<u>Note:</u> the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

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## 8.4. POWER SPECTRAL DENSITY

## **LIMITS**

FCC §15.247 (e)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

DATE: 5/4/2018

## **RESULTS**

High 11

High 12

High 13

-17.4

-17.5

-18.5

8.0

8.0

8.0

## 8.4.1. 802.11b MODE

2462

2467

2472

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD
PSD Results		

Channel	Frequency	Chain 0	Chain 1	Total	Limit	Margin
		Meas	Meas	Corr'd		
				PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	
		30kHz)	30kHz)	30kHz)	3kHz)	(dB)
Low 1	2412	-13.40	-13.71	-10.54	8.0	-18.5
Mid 6	2437	-12.72	-13.40	-10.04	8.0	-18.0

-12.70

-13.03

-13.39

-9.45

-9.46

-10.53

-12.23

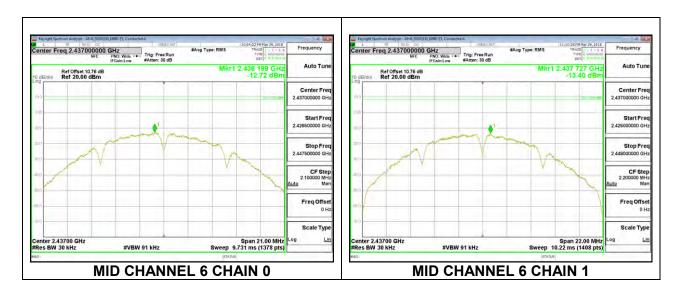
-11.98

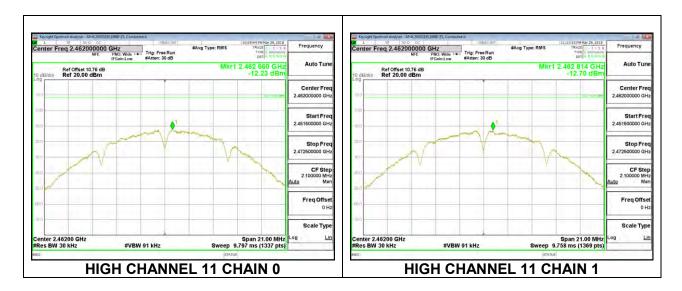
-13.69

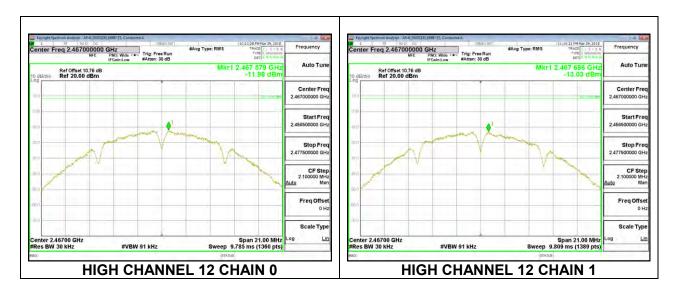
#### **LOW CHANNEL 1**



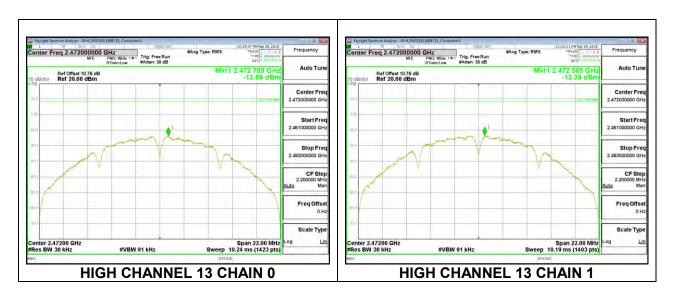
#### **MID CHANNEL 6**







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## 8.4.2. 802.11g MODE

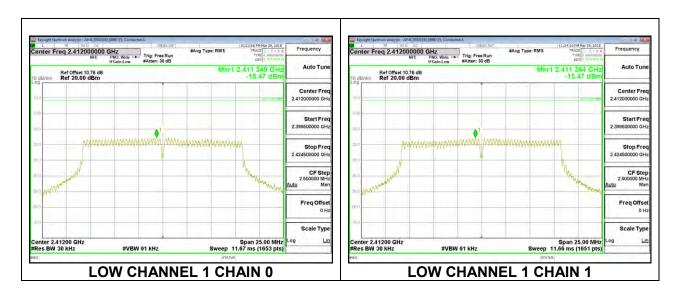
Duty Cycle CF (dB) 0.00		Included in Calculations of Corr'd PSD
DOD D 11		

#### **PSD Results**

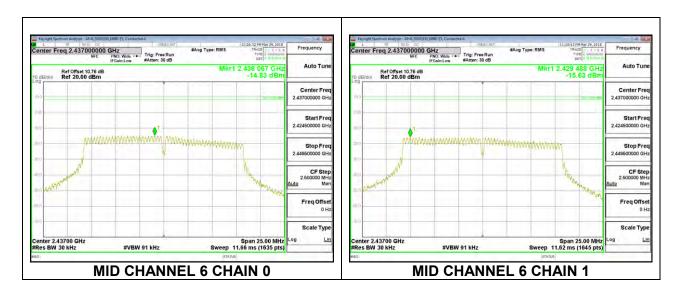
Channel	Frequency	Chain 0	nain 0 Chain 1 Total		Limit	Margin
		Meas	Meas	Corr'd		
	(MHz)	(dBm/	(dBm/	PSD (dBm/	(dBm/	
	(IVITIZ)	(dBIII/ 30kHz)	(dBIII/ 30kHz)	(dBIII/ 30kHz)	3kHz)	(dB)
Low 1	2412	-15.47	-15.47	-12.46	8.0	-20.5
Mid 6	2437	-14.83	-15.63	-12.20	8.0	-20.2
High 11	2462	-14.22	-15.10	-11.63	8.0	-19.6
High 12	2467	-15.45	-19.04	-13.87	8.0	-21.9
High 13	2472	-24.06	-26.55	-22.12	8.0	-30.1

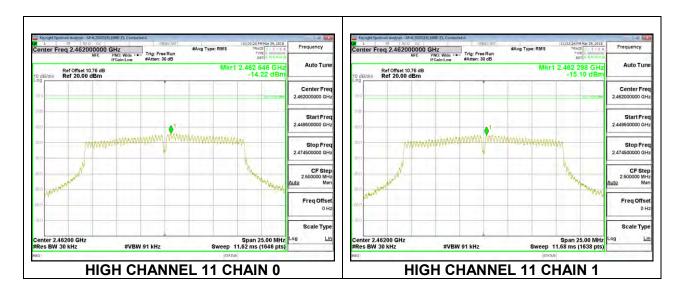
47173 BENICIA STREET, FREMONT, CA 94538, USA TEL: (510) 771-1000 FAX: (510) 66 This report shall not be reproduced except in full, without the written approval of UL Verification Services Inc.

## **LOW CHANNEL 1**

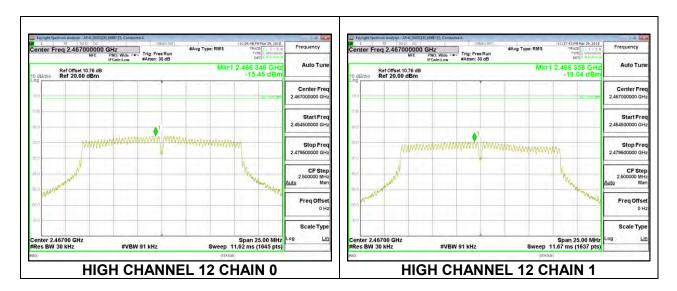


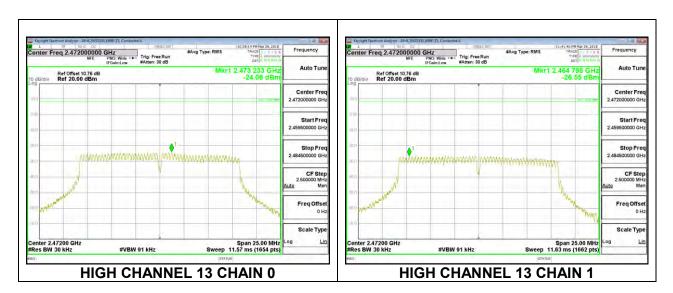
## **MID CHANNEL 6**





## **HIGH CHANNEL 12**





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High 12

High 13

## 8.4.3. 802.11n HT20 MODE

2467

2472

Duty Cycle CF (dB)		0.11	Included in Calculations of Corr'd PS			
PSD Results						
Channel	Frequency	Chain 0	Chain 1	Total	Limit	Margin
		Meas	Meas	Corr'd		
				PSD		
	(MHz)	(dBm/	(dBm/	(dBm/	(dBm/	
		30kHz)	30kHz)	30kHz)	3kHz)	(dB)
Low 1	2412	-15.16	-15.91	-12.40	8.0	-20.4
Mid 6	2437	-14.77	-15.88	-12.17	8.0	-20.2
High 11	2462	-14.52	-15.40	-11.82	8.0	-19.8

-19.26

-27.25

-13.73

-22.97

8.0

8.0

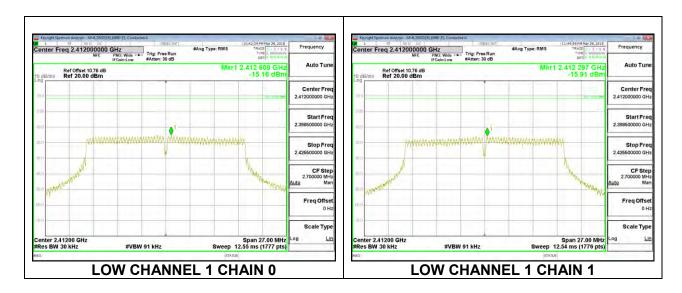
-21.7

-31.0

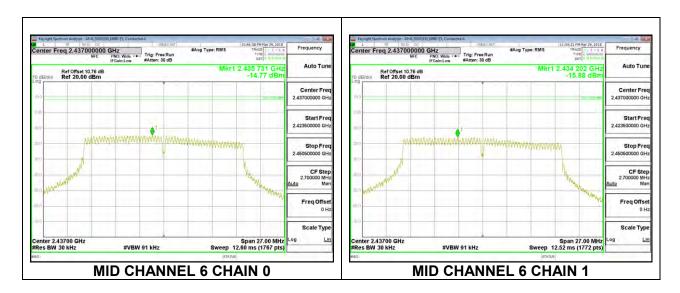
-15.31

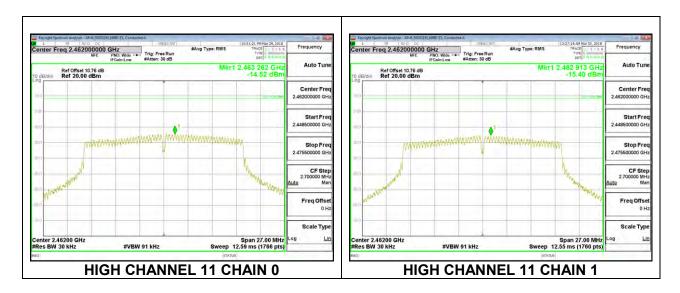
-25.17

## **LOW CHANNEL 1**

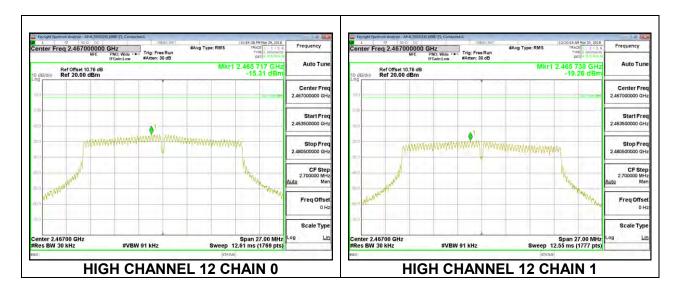


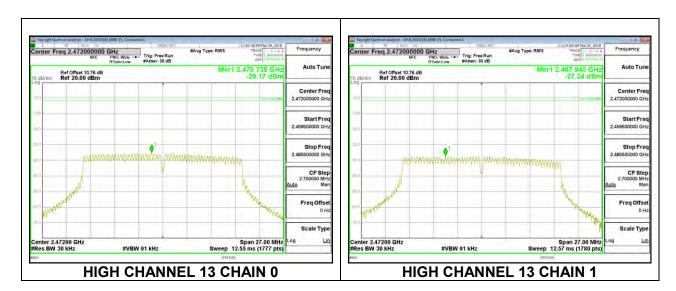
## **MID CHANNEL 6**





## **HIGH CHANNEL 12**





REPORT NO: 12132731-E4V3 FCC ID: PY7-68553C

# 8.5. CONDUCTED SPURIOUS EMISSIONS

## **LIMITS**

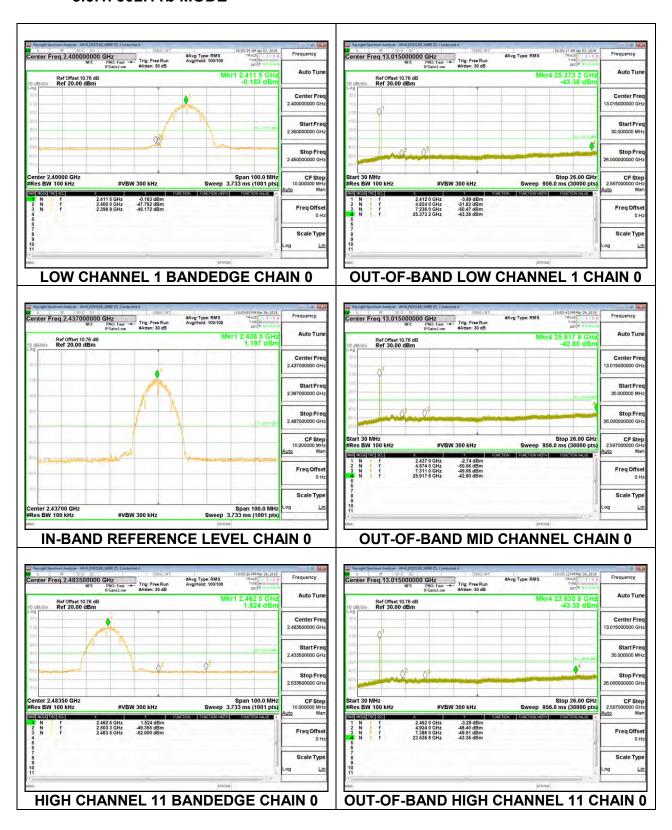
FCC §15.247 (d)

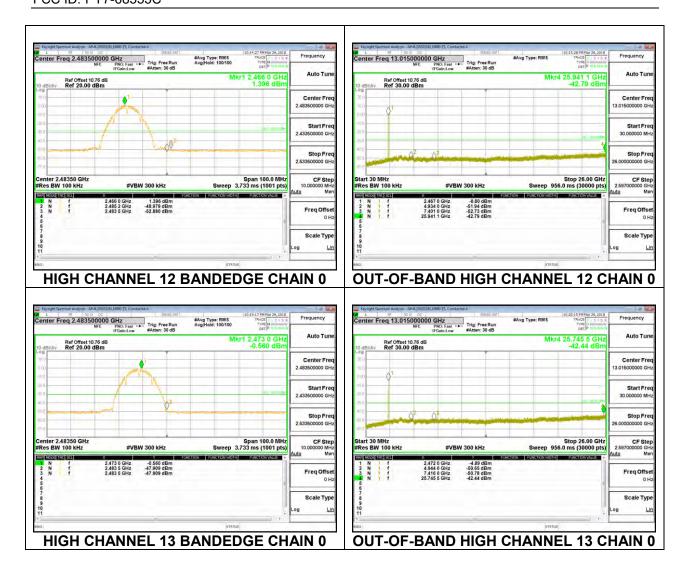
Output power was measured based on the use of peak measurement, therefore the required attenuation is 30 dB.

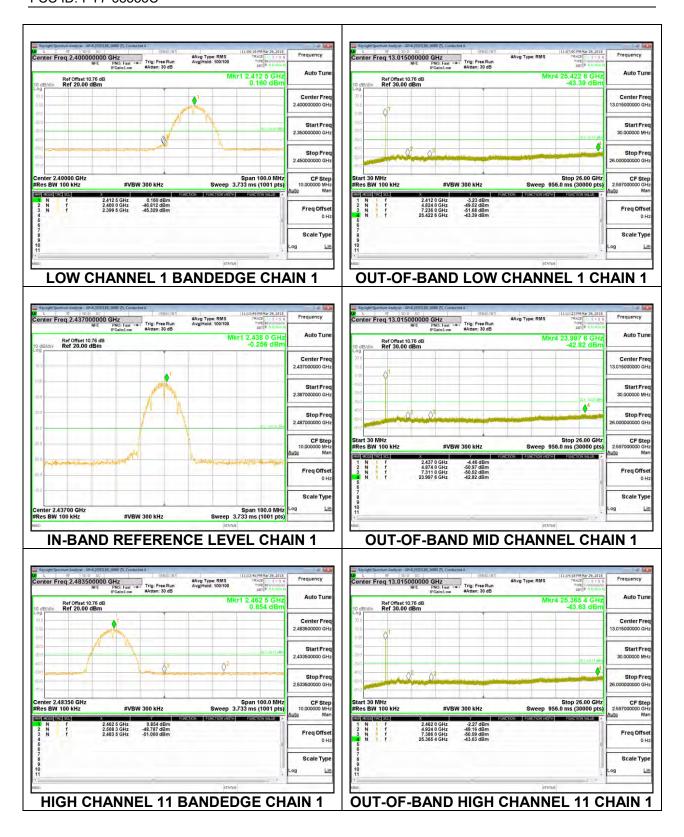
DATE: 5/4/2018

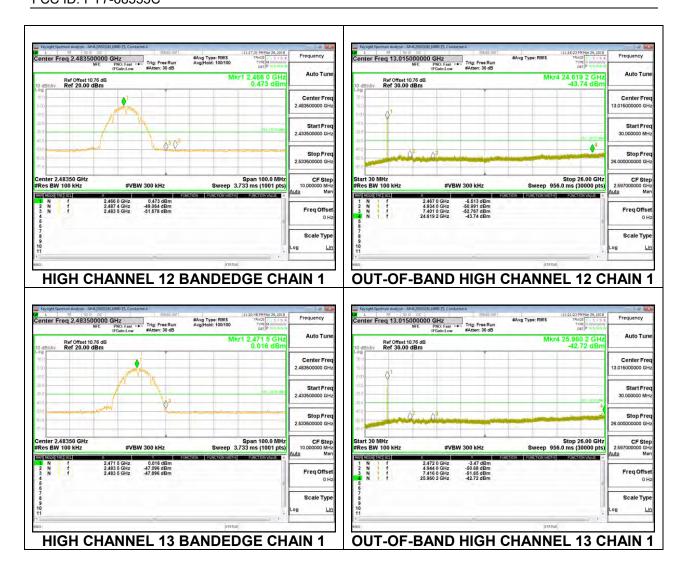
## **RESULTS**

#### 8.5.1. 802.11b MODE









# 8.5.2. 802.11g MODE

