



SAR EVALUATION REPORT
(Class II Permissive Change)

FCC 47 CFR § 2.1093
IEEE Std 1528-2013

For
Portable Computer
802.11a/b/g/n/ac WLAN+Bluetooth PCI-E Custom Combination Card

Model Name: BCM943602CS
FCC ID: QDS-BRCM1080

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REVISION HISTORY

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--	4/16/2015	Initial Issue	--
A	5/6/2015	Revised report based on reviewers comments 1. Sec. 2: Updated KDB 2. Sec. 4.3 Corrected typo and updated table. 3. Sec. 8.1 and 8.2 Added note. 4. Sec.11: Additional Testing. 5. Appendix: Updated Appendix B and C.	Jose Abadilla

Table of Contents

1. Attestation of Test Results.....	5
2. Test Methodology	6
3. Facilities and Accreditation	6
4. SAR Measurement System & Test Equipment.....	7
4.1. SAR Measurement System.....	7
4.2. SAR Scan Procedure.....	8
4.3. Test Equipment.....	10
5. Measurement Uncertainty	11
6. Device Under Test (DUT) Information.....	12
6.1. DUT Description	12
6.2. Wireless Technologies.....	12
6.3. Possible Combinations of 802.11 Modes vs. Tx Diversity Configurations.....	13
6.4. Maximum Output Power	18
6.5. Bluetooth Maximum Output Power.....	61
6.6. Antenna Dimensions and Separation Distances	62
7. RF Exposure Conditions (Test Configurations).....	63
8. RF Output Power Measurement.....	64
8.1. Wi-Fi (2.4 GHz Band).....	64
8.2. Wi-Fi (5 GHz Bands).....	75
8.3. Bluetooth Measured Power.....	112
9. Dielectric Property Measurements	113
9.1. Tissue Dielectric Parameters	113
9.2. Dielectric Property Measurements Results	114
10. System Check.....	119
10.1. Reference Target SAR Values	119
10.2. System Check Results	120
11. SAR Test Results	122
11.1. Wi-Fi 2.4 GHz.....	125
11.2. Wi-Fi 5 GHz.....	127
11.2.1. 5.3 GHz Band.....	127
11.2.2. 5.5 GHz Band.....	129
11.2.3. 5.8 GHz Band.....	131
11.3. Bluetooth.....	133

12. SAR Measurement Variability.....	134
12.1. Repeated Measurement Results	134
13. Simultaneous Transmission SAR Analysis	135
13.1. Sum of the SAR for Wi-Fi DTS Band & BT	136
13.2. Sum of the SAR for Wi-Fi UNII Bands & BT	136
Appendixes	137
A_15U20166v0 SAR Photos	137
B_15U20166v1 SAR System Check Plots.....	137
C_15U20166v1 SAR Highest Test Plots.....	137
D_15U20166v0 SAR Tissue Ingredients	137
E_15U20166v0 SAR Probe Cal. Certificates	137
F_15U20166v0 SAR Dipole Cal. Certificates.....	137

1. Attestation of Test Results

Applicant Name		BROADCOM CORPORATION			
FCC ID		QDS-BRCM1080			
Model Name		BCM943602CS			
Applicable Standards		FCC 47 CFR § 2.1093 Published RF exposure KDB procedures IEEE Std 1528-2013			
SAR Limits (W/Kg)					
Exposure Category		Peak spatial-average (1g of tissue)			
General population/Uncontrolled exposure		1.6			
The Highest Reported SAR (W/kg)					
RF Exposure Conditions		Equipment Class			
		Licensed	DTS	U-NII	DSS (BT)
Standalone		N/A	1.180	1.190	0.107
Simultaneous Transmission	Body	1.287	1.297	1.297	
Date Tested		3/23/2015-3/30/2015; 4/27/2015-5/7/2015			
Test Results		Pass			
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 any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.					
Approved & Released By:			Prepared By:		
					
Bobby Bayani Senior Engineer UL Verification Services Inc.			Jose Abadilla Laboratory Technician UL Verification Services Inc.		

2. Test Methodology

The tests documented in this report were performed in accordance with FCC 47 CFR Parts 1 & 2, IEEE STD 1528-2013, the following FCC Published RF exposure KDB procedures, and TCB workshop updates:

- 447498 D01 General RF Exposure Guidance v05r02
- 616217 D04 SAR for Laptop and Tablets v01r01
- 248227 D01 802.11 Wi-Fi SAR V02
- 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- 865664 D02 SAR Reporting v01r01
- 690783 D01 SAR Listings on Grants v01r03

3. Facilities and Accreditation

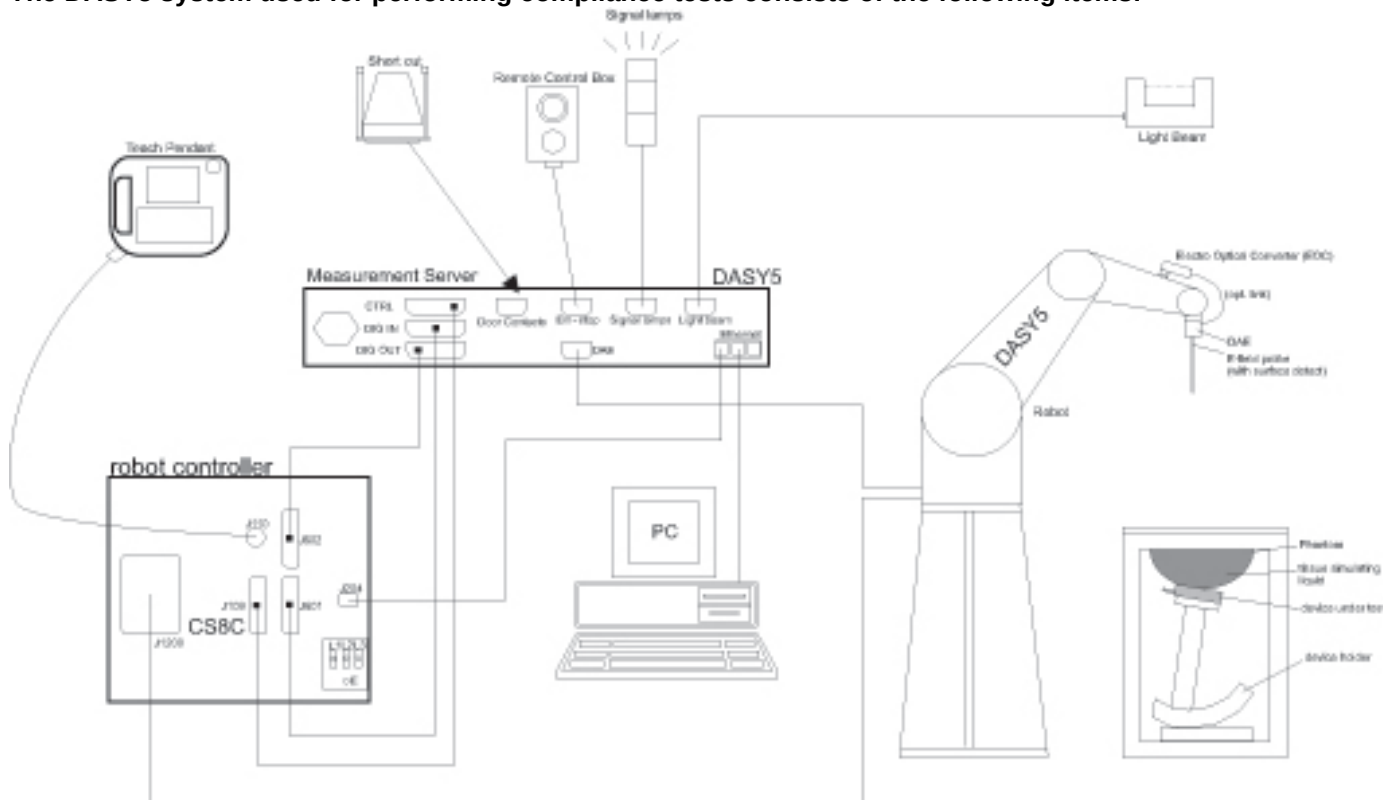
The test sites and measurement facilities used to collect data are located at 18920 Forge Drive, Cupertino, California, USA.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0.

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

The DASY5 system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP or Win7 and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

4.2. SAR Scan Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE Standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	≤ 2 GHz: ≤ 15 mm $2 - 3$ GHz: ≤ 12 mm	$3 - 4$ GHz: ≤ 12 mm $4 - 6$ GHz: ≤ 10 mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

			≤ 3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{\text{Zoom}}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{\text{Zoom}}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{\text{Zoom}}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the area scan based <i>1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Step 4: Power drift measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

Step 5: Z-Scan (FCC only)

The Z Scan measures points along a vertical straight line. The line runs along the Z-axis of a one-dimensional grid. In order to get a reasonable extrapolation the extrapolated distance should not be larger than the step size in Z-direction.

4.3. Test Equipment

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

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Network Analyzer	Agilent	8753ES	MY40001647	7/17/2015
Dielectronic Probe kit	SPEAG	DAK-3.5	1054	2/10/2016
Dielectronic Probe kit	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Thermometer	Traceable Calibration Control Co.	4242	122529162	10/8/2015

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Synthesized Signal Generator	Rhode & Schwarz	SMU 200A	11-300312009	5/22/2017
Power Meter	Rhode & Schwarz	NRP2	17-448768	9/3/2015
Power Sensor	Rhode & Schwarz	NRP-Z11	20-429546	4/26/2016
Power Meter	Rhode & Schwarz	NRP2	17-429038	4/24/2015
Power Sensor	Rhode & Schwarz	NRP-Z11	20-429538	4/26/2015
R/F Microwave/Amplifier	AR	3051G3	320316	N/A
R/F Microwave/Amplifier	AR	35S4G8A	336934	N/A
Directional coupler	KRYTAR	158010	142253	N/A
E-Field Probe (DASY A)	SPEAG	EX3DV4	3987	2/17/2016
E-Field Probe (DASY B)	SPEAG	EX3DV4	3720	2/19/2016
E-Field Probe (DASY C)	SPEAG	EX3DV4	3988	2/17/2016
E-Field Probe (DASY D)	SPEAG	EX3DV4	3993	2/19/2016
Data Acquisition Electronics (DASY A)	SPEAG	DAE4	1432	2/11/2016
Data Acquisition Electronics (DASY B)	SPEAG	DAE4	1263	2/10/2016
Data Acquisition Electronics (DASY C)	SPEAG	DAE4	1421	2/11/2016
Data Acquisition Electronics (DASY D)	SPEAG	DAE4	1427	2/11/2016
System Validation Dipole	SPEAG	D2450V2	826	2/10/2016
System Validation Dipole	SPEAG	D5GHzV2	1072	2/12/2016
System Validation Dipole	SPEAG	D5GHzV2	1084	2/12/2016

Others

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Power Meter	Rhode & Schwarz	NRP2	17-448768	9/3/2015
Power Sensor	Rhode & Schwarz	NRP-Z11	20-429546	4/26/2016
Power Meter	Rhode & Schwarz	NRP2	17-429038	4/24/2015
Power Sensor	Rhode & Schwarz	NRP-Z11	20-429538	4/26/2015
Power Meter	Rhode & Schwarz	NRP2	102823	4/6/2016
Power Sensor	Rhode & Schwarz	NRP-Z11	112143	4/6/2016
Power Meter	Rhode & Schwarz	NRP2	101664	4/15/2016
Power Sensor	Rhode & Schwarz	NRP-Z11	112142	4/6/2016

5. Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval.

6. Device Under Test (DUT) Information

6.1. DUT Description

802.11a/b/g/n/ac WLAN+Bluetooth PCI-E Custom Combination Card (Tested inside of 15-inch MacBook Pro, Model A1398)	
Operating Configuration(s)	Portable Computer
Antennas Tested	Vendor : A / B Part Number : 613-00224 Wi-Fi1 (Chain 3) 613-00224 Wi-Fi2 (Chain 1) 613-00224 Wi-Fi3 & Bluetooth (Chain 2) Antenna to module mapping : Chain 3 – Wi-Fi Antenna 1 Chain 1 – Wi-Fi Antenna 2 Chain 2 – Wi-Fi Antenna 3

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode	Duty Cycle used for SAR testing
Wi-Fi	2.4 GHz	802.11b 802.11g 802.11n (HT20) 802.11ac (VHT20)	100%
	5 GHz	802.11a 802.11n (HT20) 802.11n (HT40) 802.11ac (VHT20) 802.11ac (VHT40) 802.11ac (VHT80)	100%
Bluetooth	2.4 GHz	Version 1.8 BLE	100% (DH5)

6.3. Possible Combinations of 802.11 Modes vs. Tx Diversity Configurations

Band	802.11 Modes	Tx diversity configurations	Original Approval
2.4GHz (DSSS/OFDM)	11b	1 Tx	√
		2 Tx CDD	√
		3 Tx CDD	√
	11g	1 Tx	√
		2 Tx All Non TXBF	√
		2 Tx (TXBF)	√
		3 Tx All Non TXBF	√
		3 Tx (TXBF)	√
	11n	HT20 1 Tx	√
		HT20 2 Tx All Non TXBF	√
		HT20 2 Tx (TXBF)	√
		HT20 3 Tx All Non TXBF	√
		HT20 3 Tx (TXBF)	√
		HT40	disabled
	11ac	VHT20 (1 Tx)	√
		VHT40 (1 Tx)	disabled
		VHT80 (1 Tx)	disabled
		VHT20 Non TXBF (2 Tx)	√
		VHT40 All/TXBF (2 Tx)	disabled
		VHT80 All/TXBF (2 Tx)	disabled
		VHT20 Non TXBF (3 Tx)	√
		VHT40 All/TXBF (3 Tx)	disabled
		VHT80 All/TXBF (3 Tx)	disabled
Note(s):			
The 11n/ac 2, 3 Tx VHT20/VHT40/VHT80 "All" modes detailed apply to all of CDD/STBC/SDM modes.			

Possible Combinations of 802.11 Modes vs. Tx Diversity Configurations (3Tx) - Continued

Band	802.11 Modes	Tx diversity configurations	Original Approval	
5.2GHz (OFDM) UNII-1	11a	1 Tx	√	
		2 Tx CDD	√	
		3 Tx CDD	√	
	11n	HT20 (1 Tx)	√	
		HT40 (1 Tx)	√	
		HT20 All Non TXBF (2 Tx)	√	
		HT20 TXBF (2 Tx)	√	
		HT40 All Non TXBF (2 Tx)	√	
		HT40 TXBF (2 Tx)	√	
		HT20 All Non TXBF (3 Tx)	√	
		HT20 TXBF (3 Tx)	√	
		HT40 All Non TXBF (3 Tx)	√	
		HT40 TXBF (3 Tx)	√	
		11ac	VHT20 SISO (1 Tx)	√
			VHT40 SISO (1 Tx)	√
	VHT80 SISO (1 Tx)		√	
	VHT20 All Non TXBF (2 Tx)		√	
	VHT20 TXBF (2 Tx)		√	
	VHT40 All Non TXBF (2 Tx)		√	
	VHT40 TXBF (2 Tx)		√	
	VHT80 All Non TXBF (2 Tx)		√	
	VHT80 TXBF (2 Tx)		√	
	VHT20 All Non TXBF (3 Tx)		√	
	VHT20 TXBF (3 Tx)		√	
	VHT40 All Non TXBF (3 Tx)		√	
	VHT40 TXBF (3 Tx)		√	
	VHT80 All Non TXBF (3 Tx)	√		
	VHT80 TXBF (3 Tx)	√		
Note(s):				
The 11n/ac 2, 3 Tx VHT20/VHT40/VHT80 "All" modes detailed apply to all of CDD/STBC/SDM modes.				

Possible Combinations of 802.11 Modes vs. Tx Diversity Configurations (2Tx) - Continued

Band	802.11 Modes	Tx diversity configurations	Original Approval	
5.3GHz (OFDM) UNII-2A	11a	1 Tx	√	
		2 Tx CDD	√	
		3 Tx CDD	√	
	11n	HT20 (1 Tx)	√	
		HT40 (1 Tx)	√	
		HT20 All Non TXBF (2 Tx)	√	
		HT20 TXBF (2 Tx)	√	
		HT40 All Non TXBF (2 Tx)	√	
		HT40 TXBF (2 Tx)	√	
		HT20 All Non TXBF (3 Tx)	√	
		HT20 TXBF (3 Tx)	√	
		HT40 All Non TXBF (3 Tx)	√	
		HT40 TXBF (3 Tx)	√	
		11ac	VHT20 (1 Tx)	√
			VHT40 (1 Tx)	√
	VHT80 (1 Tx)		√	
	VHT20 All Non TXBF (2 Tx)		√	
	VHT20 TXBF (2 Tx)		√	
	VHT40 All Non TXBF (2 Tx)		√	
	VHT40 TXBF (2 Tx)		√	
	VHT80 All Non TXBF (2 Tx)		√	
	VHT80 TXBF (2 Tx)		√	
	VHT20 All Non TXBF (3 Tx)		√	
	VHT20 TXBF (3 Tx)		√	
	VHT40 All Non TXBF (3 Tx)		√	
	VHT40 TXBF (3 Tx)		√	
	VHT80 All Non TXBF (3 Tx)	√		
	VHT80 TXBF (3 Tx)	√		
Note(s):				
The 11n/ac 2, 3 Tx VHT20/VHT40/VHT80 "All" modes detailed apply to all of CDD/STBC/SDM modes.				

Possible Combinations of 802.11 Modes vs. Tx Diversity Configurations (2Tx) - Continued

Band	802.11 Modes	Tx diversity configurations	Original Approval	
5.5GHz (OFDM) UNII-2C	11a	1 Tx	√	
		2 Tx CDD	√	
		3 Tx CDD	√	
	11n	HT20 (1 Tx)	√	
		HT40 (1 Tx)	√	
		HT20 All Non TXBF(2 Tx)	√	
		HT20 TXBF (2 Tx)	√	
		HT40 All Non TXBF (2 Tx)	√	
		HT40 TXBF (2 Tx)	√	
		HT20 All Non TXBF(3 Tx)	√	
		HT20 TXBF (3 Tx)	√	
		HT40 All Non TXBF (3 Tx)	√	
		HT40 TXBF (3 Tx)	√	
		11ac	VHT20 (1 Tx)	√
			VHT40 (1 Tx)	√
	VHT80 (1 Tx)		√	
	VHT20 All Non TXBF (2 Tx)		√	
	VHT20 TXBF (2 Tx)		√	
	VHT40 All Non TFBF (2 Tx)		√	
	VHT40 TXBF (2 Tx)		√	
	VHT80 All Non TXBF (2 Tx)		√	
	VHT80 TXBF (2 Tx)		√	
	VHT20 All Non TXBF (3 Tx)		√	
	VHT20 TXBF (3 Tx)		√	
	VHT40 All Non TFBF (3 Tx)		√	
	VHT40 TXBF (3 Tx)		√	
	VHT80 All Non TXBF (3 Tx)	√		
	VHT80 TXBF (3 Tx)	√		
Note(s):				
The 11n/ac 2, 3 Tx VHT20/VHT40/VHT80 "All" modes detailed apply to all of CDD/STBC/SDM modes.				

Possible Combinations of 802.11 Modes vs. Tx Diversity Configurations (2Tx) - Continued

Band	802.11 Modes	Tx diversity configurations	Original Approval	
5.8GHz (OFDM) UNII-3	11a	1 Tx	√	
		2 Tx CDD	√	
		3 Tx CDD	√	
	11n	HT20 (1 Tx)	√	
		HT40 (1 Tx)	√	
		HT20 All Non TXBF (2 Tx)	√	
		HT20 TXBF (2 Tx)	√	
		HT40 All Non TXBF (2 Tx)	√	
		HT40 TXBF (2 Tx)	√	
		HT20 All Non TXBF (3 Tx)	√	
		HT20 TXBF (3 Tx)	√	
		HT40 All Non TXBF (3 Tx)	√	
		HT40 TXBF (3 Tx)	√	
		11ac	VHT20 (1 Tx)	√
			VHT40 (1 Tx)	√
	VHT80 (1 Tx)		√	
	VHT20 All Non TXBF (2 Tx)		√	
	VHT20 TXBF (2 Tx)		√	
	VHT40 All Non TXBF (2 Tx)		√	
	VHT40 TXBF (2 Tx)		√	
	VHT80 All Non TXBF (2 Tx)		√	
	VHT80 TXBF (2 Tx)		√	
	VHT20 All Non TXBF (3 Tx)		√	
	VHT20 TXBF (3 Tx)		√	
	VHT40 All Non TXBF (3 Tx)		√	
	VHT40 TXBF (3 Tx)		√	
	VHT80 All Non TXBF (3 Tx)	√		
	VHT80 TXBF (3 Tx)	√		
Note(s):				
The 11n/ac 2, 3 Tx VHT20/VHT40/VHT80 "All" modes detailed apply to all of CDD/STBC/SDM modes.				

6.4. Maximum Output Power

Wi-Fi 2.4 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
2.4 (DSSS)	802.11b Legacy	1 Tx	1	2412	21.00			17.50		
			6	2437	21.00			17.50		
			11	2462	19.25			17.50		
			12	2467	18.50			17.50		
			13	2472	15.00			15.00		
			1	2412		21.00			16.00	
			6	2437		21.00			16.00	
			11	2462		19.25			16.00	
			12	2467		18.50			16.00	
			13	2472		15.00			15.00	
			1	2412			21.00			17.25
			6	2437			21.00			17.25
			11	2462			19.25			17.25
			12	2467			18.50			17.25
			13	2472			15.00			15.00
		2 Tx CDD	1	2412	21.00	21.00		17.50	16.00	
			6	2437	21.00	21.00		17.50	16.00	
			11	2462	19.25	19.25		17.50	16.00	
			12	2467	18.50	18.50		17.50	16.00	
			13	2472	15.00	15.00		15.00	15.00	
			1	2412	21.00		21.00	17.50		17.25
			6	2437	21.00		21.00	17.50		17.25
			11	2462	19.25		19.25	17.50		17.25
			12	2467	18.50		18.50	17.50		17.25
			13	2472	15.00		15.00	15.00		15.00
			1	2412		21.00	21.00		16.00	17.25
			6	2437		21.00	21.00		16.00	17.25
			11	2462		19.25	19.25		16.00	17.25
			12	2467		18.50	18.50		16.00	17.25
			13	2472		15.00	15.00		15.00	15.00
		3 Tx CDD	1	2412	21.00	21.00	21.00	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			11	2462	19.25	19.25	19.25	17.50	16.00	17.25
			12	2467	18.50	18.50	18.50	17.50	16.00	17.25
			13	2472	15.00	15.00	15.00	15.00	15.00	15.00

Wi-Fi 2.4 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
2.4 (OFDM)	802.11g	1 Tx	1	2412	18.00			17.50		
			2	2417	20.50			17.50		
			6	2437	21.00			17.50		
			10	2457	19.50			17.50		
			11	2462	16.00			16.00		
			12	2467	13.00			13.00		
			13	2472	9.00			9.00		
			1	2412		18.00			16.00	
			2	2417		20.50			16.00	
			6	2437		21.00			16.00	
			10	2457		19.50			16.00	
			11	2462		16.00			16.00	
			12	2467		13.00			13.00	
			13	2472		9.00			9.00	
		2 Tx CDD	1	2412			18.00			17.25
			2	2417			20.50			17.25
			6	2437			21.00			17.25
			10	2457			19.50			17.25
			11	2462			16.00			16.00
			12	2467			13.00			13.00
			13	2472			9.00			9.00
			1	2412	14.50	14.50		14.50	14.50	
			2	2417	18.00	18.00		17.50	16.00	
			6	2437	21.00	21.00		17.50	16.00	
			10	2457	17.50	17.50		17.50	16.00	
			11	2462	13.50	13.50		13.50	13.50	
			12	2467	11.25	11.25		11.25	11.25	
			13	2472	7.50	7.50		7.50	7.50	
			1	2412	14.50		14.50	14.50		14.50
			2	2417	18.00		18.00	17.50		17.25
			6	2437	21.00		21.00	17.50		17.25
			10	2457	17.50		17.50	17.50		17.25
			11	2462	13.50		13.50	13.50		13.50
			12	2467	11.25		11.25	11.25		11.25
			13	2472	7.50		7.50	7.50		7.50

Wi-Fi 2.4 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
2.4 (OFDM)	802.11g	2 Tx CDD	1	2412		14.50	14.50		14.50	14.50
			2	2417		18.00	18.00		16.00	17.25
			6	2437		21.00	21.00		16.00	17.25
			10	2457		17.50	17.50		16.00	17.25
			11	2462		13.50	13.50		13.50	13.50
			12	2467		11.25	11.25		11.25	11.25
			13	2472		7.50	7.50		7.50	7.50
		2 Tx TXBF	1	2412	17.00	17.00		17.00	16.00	
			2	2417	19.50	19.50		17.50	16.00	
			6	2437	21.00	21.00		17.50	16.00	
			10	2457	18.50	18.50		17.50	16.00	
			11	2462	15.00	15.00		15.00	15.00	
			12	2467	14.00	14.00		14.00	14.00	
			13	2472	9.50	9.50		9.50	9.50	
			1	2412	17.00		17.00	17.00		17.00
			2	2417	19.50		19.50	17.50		17.25
			6	2437	21.00		21.00	17.50		17.25
			10	2457	18.50		18.50	17.50		17.25
			11	2462	15.00		15.00	15.00		15.00
			12	2467	14.00		14.00	14.00		14.00
			13	2472	9.50		9.50	9.50		9.50
		3 Tx CDD	1	2412	14.50	14.50	14.50	14.50	14.50	14.50
			2	2417	18.00	18.00	18.00	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			10	2457	17.50	17.50	17.50	17.50	16.00	17.25
			11	2462	13.50	13.50	13.50	13.50	13.50	13.50
			12	2467	11.25	11.25	11.25	11.25	11.25	11.25
			13	2472	7.50	7.50	7.50	7.50	7.50	7.50
		3 Tx TXBF	1	2412	17.00	17.00	17.00	17.00	16.00	17.00
			2	2417	19.50	19.50	19.50	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			10	2457	18.50	18.50	18.50	17.50	16.00	17.25
			11	2462	15.00	15.00	15.00	15.00	15.00	15.00
			12	2467	14.00	14.00	14.00	14.00	14.00	14.00
			13	2472	9.50	9.50	9.50	9.50	9.50	9.50

Wi-Fi 2.4 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
2.4 (OFDM)	802.11n	1 Tx	1	2412	18.00			17.50		
			2	2417	20.50			17.50		
			6	2437	21.00			17.50		
			10	2457	19.50			17.50		
			11	2462	16.00			16.00		
			12	2467	13.00			13.00		
			13	2472	9.00			9.00		
			1	2412		18.00			16.00	
			2	2417		20.50			16.00	
			6	2437		21.00			16.00	
			10	2457		19.50			16.00	
			11	2462		16.00			16.00	
			12	2467		13.00			13.00	
			13	2472		9.00			9.00	
			1	2412			18.00			17.25
			2	2417			20.50			17.25
			6	2437			21.00			17.25
			10	2457			19.50			17.25
			11	2462			16.00			16.00
			12	2467			13.00			13.00
			13	2472			9.00			9.00
		1 Tx HT40	40MHz Transmission disabled in the 2.4GHz Band							
		2 Tx CDD	1	2412	14.50	14.50		14.50	14.50	
			2	2417	18.00	18.00		17.50	16.00	
			6	2437	21.00	21.00		17.50	16.00	
			10	2457	17.50	17.50		17.50	16.00	
			11	2462	13.50	13.50		13.50	13.50	
			12	2467	11.25	11.25		11.25	11.25	
			13	2472	7.50	7.50		7.50	7.50	
			1	2412	14.50		14.50	14.50		14.50
			2	2417	18.00		18.00	17.50		17.25
			6	2437	21.00		21.00	17.50		17.25
			10	2457	17.50		17.50	17.50		17.25
			11	2462	13.50		13.50	13.50		13.50
			12	2467	11.25		11.25	11.25		11.25
			13	2472	7.50		7.50	7.50		7.50
			1	2412		14.50	14.50		14.50	14.50
			2	2417		18.00	18.00		16.00	17.25
			6	2437		21.00	21.00		16.00	17.25
			10	2457		17.50	17.50		16.00	17.25
			11	2462		13.50	13.50		13.50	13.50
			12	2467		11.25	11.25		11.25	11.25
			13	2472		7.50	7.50		7.50	7.50

Wi-Fi 2.4 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
2.4 (OFDM)	802.11n	2 Tx TXBF	1	2412	17.00	17.00		17.00	16.00	
			2	2417	19.50	19.50		17.50	16.00	
			6	2437	21.00	21.00		17.50	16.00	
			10	2457	18.50	18.50		17.50	16.00	
			11	2462	15.00	15.00		15.00	15.00	
			12	2467	14.00	14.00		14.00	14.00	
			13	2472	9.50	9.50		9.50	9.50	
			1	2412	17.00		17.00	17.00		17.00
			2	2417	19.50		19.50	17.50		17.25
			6	2437	21.00		21.00	17.50		17.25
			10	2457	18.50		18.50	17.50		17.25
			11	2462	15.00		15.00	15.00		15.00
			12	2467	14.00		14.00	14.00		14.00
			13	2472	9.50		9.50	9.50		9.50
			1	2412		17.00	17.00		16.00	17.00
			2	2417		19.50	19.50		16.00	17.25
			6	2437		21.00	21.00		16.00	17.25
			10	2457		18.50	18.50		16.00	17.25
			11	2462		15.00	15.00		15.00	15.00
			12	2467		14.00	14.00		14.00	14.00
			13	2472		9.50	9.50		9.50	9.50
		2 Tx HT40 All / TXBF	40MHz Transmission disabled in the 2.4GHz Band							
		3 Tx CDD	1	2412	14.50	14.50	14.50	14.50	14.50	14.50
			2	2417	18.00	18.00	18.00	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			10	2457	17.50	17.50	17.50	17.50	16.00	17.25
			11	2462	13.50	13.50	13.50	13.50	13.50	13.50
			12	2467	11.25	11.25	11.25	11.25	11.25	11.25
			13	2472	7.50	7.50	7.50	7.50	7.50	7.50
		3 Tx STBC	1	2412	14.50	14.50	14.50	14.50	14.50	14.50
			2	2417	18.00	18.00	18.00	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			10	2457	17.50	17.50	17.50	17.50	16.00	17.25
			11	2462	13.50	13.50	13.50	13.50	13.50	13.50
			12	2467	11.25	11.25	11.25	11.25	11.25	11.25
			13	2472	7.50	7.50	7.50	7.50	7.50	7.50

Wi-Fi 2.4 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
2.4 (OFDM)	802.11n	3 Tx SDM	1	2412	14.50	14.50	14.50	14.50	14.50	14.50
			2	2417	18.00	18.00	18.00	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			10	2457	17.50	17.50	17.50	17.50	16.00	17.25
			11	2462	13.50	13.50	13.50	13.50	13.50	13.50
			12	2467	11.25	11.25	11.25	11.25	11.25	11.25
			13	2472	7.50	7.50	7.50	7.50	7.50	7.50
		3 Tx TXBF	1	2412	17.00	17.00	17.00	17.00	16.00	17.00
			2	2417	19.50	19.50	19.50	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			10	2457	18.50	18.50	18.50	17.50	16.00	17.25
			11	2462	15.00	15.00	15.00	15.00	15.00	15.00
			12	2467	14.00	14.00	14.00	14.00	14.00	14.00
			13	2472	9.50	9.50	9.50	9.50	9.50	9.50
		3 Tx HT40 All / TXBF	40MHz Transmission disabled in the 2.4GHz Band							
	802.11ac	1 Tx VHT20	1	2412	18.00			17.50		
			2	2417	20.50			17.50		
			6	2437	21.00			17.50		
			10	2457	19.50			17.50		
			11	2462	16.00			16.00		
			12	2467	13.00			13.00		
			13	2472	9.00			9.00		
			1	2412		18.00			16.00	
			2	2417		20.50			16.00	
			6	2437		21.00			16.00	
			10	2457		19.50			16.00	
			11	2462		16.00			16.00	
			12	2467		13.00			13.00	
			13	2472		9.00			9.00	
			1	2412			18.00			17.25
			2	2417			20.50			17.25
			6	2437			21.00			17.25
			10	2457			19.50			17.25
			11	2462			16.00			16.00
			12	2467			13.00			13.00
			13	2472			9.00			9.00
		1 Tx VHT40	40MHz Transmission disabled in the 2.4GHz Band							
		1 Tx VHT80	80MHz Transmission disabled in the 2.4GHz Band							

Wi-Fi 2.4 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
2.4 (OFDM)	802.11ac	2 Tx VHT20 CDD	1	2412	14.50	14.50		14.50	14.50	
			2	2417	18.00	18.00		17.50	16.00	
			6	2437	21.00	21.00		17.50	16.00	
			10	2457	17.50	17.50		17.50	16.00	
			11	2462	13.50	13.50		13.50	13.50	
			12	2467	11.25	11.25		11.25	11.25	
			13	2472	7.50	7.50		7.50	7.50	
			1	2412	14.50		14.50	14.50		14.50
			2	2417	18.00		18.00	17.50		17.25
			6	2437	21.00		21.00	17.50		17.25
			10	2457	17.50		17.50	17.50		17.25
			11	2462	13.50		13.50	13.50		13.50
			12	2467	11.25		11.25	11.25		11.25
			13	2472	7.50		7.50	7.50		7.50
			1	2412		14.50	14.50		14.50	14.50
			2	2417		18.00	18.00		16.00	17.25
			6	2437		21.00	21.00		16.00	17.25
			10	2457		17.50	17.50		16.00	17.25
			11	2462		13.50	13.50		13.50	13.50
			12	2467		11.25	11.25		11.25	11.25
			13	2472		7.50	7.50		7.50	7.50
		2 Tx VHT20 TXBF	1	2412	17.00	17.00		17.00	16.00	
			2	2417	19.50	19.50		17.50	16.00	
			6	2437	21.00	21.00		17.50	16.00	
			10	2457	18.50	18.50		17.50	16.00	
			11	2462	15.00	15.00		15.00	15.00	
			12	2467	14.00	14.00		14.00	14.00	
			13	2472	9.50	9.50		9.50	9.50	
			1	2412	17.00		17.00	17.00		17.00
			2	2417	19.50		19.50	17.50		17.25
			6	2437	21.00		21.00	17.50		17.25
			10	2457	18.50		18.50	17.50		17.25
			11	2462	15.00		15.00	15.00		15.00
			12	2467	14.00		14.00	14.00		14.00
			13	2472	9.50		9.50	9.50		9.50
			1	2412		17.00	17.00		16.00	17.00
			2	2417		19.50	19.50		16.00	17.25
			6	2437		21.00	21.00		16.00	17.25
			10	2457		18.50	18.50		16.00	17.25
			11	2462		15.00	15.00		15.00	15.00
			12	2467		14.00	14.00		14.00	14.00
			13	2472		9.50	9.50		9.50	9.50

Wi-Fi 2.4 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
2.4 (OFDM)	802.11ac	2 Tx VHT40 All Non TXBF	40MHz Transmission disabled in the 2.4GHz Band							
		2 Tx VHT80 All Non TXBF	80MHz Transmission disabled in the 2.4GHz Band							
		3 Tx VHT20 CDD	1	2412	14.50	14.50	14.50	14.50	14.50	14.50
			2	2417	18.00	18.00	18.00	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			10	2457	17.50	17.50	17.50	17.50	16.00	17.25
			11	2462	13.50	13.50	13.50	13.50	13.50	13.50
			12	2467	11.25	11.25	11.25	11.25	11.25	11.25
			13	2472	7.50	7.50	7.50	7.50	7.50	7.50
		3 Tx VHT20 All Non TXBF	1	2412	14.50	14.50	14.50	14.50	14.50	14.50
			2	2417	18.00	18.00	18.00	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			10	2457	17.50	17.50	17.50	17.50	16.00	17.25
			11	2462	13.50	13.50	13.50	13.50	13.50	13.50
			12	2467	11.25	11.25	11.25	11.25	11.25	11.25
			13	2472	7.50	7.50	7.50	7.50	7.50	7.50
		3 Tx VHT20 TXBF	1	2412	17.00	17.00	17.00	17.00	16.00	17.00
			2	2417	19.50	19.50	19.50	17.50	16.00	17.25
			6	2437	21.00	21.00	21.00	17.50	16.00	17.25
			10	2457	18.50	18.50	18.50	17.50	16.00	17.25
			11	2462	15.00	15.00	15.00	15.00	15.00	15.00
			12	2467	14.00	14.00	14.00	14.00	14.00	14.00
			13	2472	9.50	9.50	9.50	9.50	9.50	9.50
		3 Tx VHT40 All Non TXBF	40MHz Transmission disabled in the 2.4GHz Band							
		3 Tx VHT80 All Non TXBF	80MHz Transmission disabled in the 2.4GHz Band							

Note(s):

1) The "Original Approval" power levels were based upon FCC modular approval testing of the BCM943602CS radio. These power levels were approved up to maximum regulatory levels to cover a number of different potential applications.

The original maximum regulatory power levels may be reduced further by the driver for one of the following two reasons:

- a) For performance (i.e. non-regulatory) reasons to ensure that PER and EVM of the radio meet internal specifications.
- b) For application specifics. In this case the power is reduced to meet the specific SAR requirement per transmit chain over frequency band/channel. SAR specifics are addressed in a Class II permissive change as applicable.

2) The 11n 2Tx,3Tx HT20/HT40 "All" modes detailed apply to all of the CDD/STBC/SDM non-transmit beamforming modes.

Wi-Fi 5.2 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.2 (OFDM) U-NII-1	802.11a	1 Tx	36	5180	18.00			16.50		
			40	5200	18.00			16.50		
			44	5220	18.00			16.50		
			48	5240	18.00			16.50		
			36	5180		18.00			15.50	
			40	5200		18.00			15.50	
			44	5220		18.00			15.50	
			48	5240		18.00			15.50	
			36	5180			18.00			16.50
			40	5200			18.00			16.50
			44	5220			18.00			16.50
			48	5240			18.00			16.50
		2 Tx CDD	36	5180	17.00	17.00		16.50	15.50	
			40	5200	17.50	17.50		16.50	15.50	
			44	5220	17.50	17.50		16.50	15.50	
			48	5240	17.50	17.50		16.50	15.50	
			36	5180	17.00		17.00	16.50		16.50
			40	5200	17.50		17.50	16.50		16.50
			44	5220	17.50		17.50	16.50		16.50
			48	5240	17.50		17.50	16.50		16.50
			36	5180		17.00	17.00		15.50	16.50
			40	5200		17.50	17.50		15.50	16.50
			44	5220		17.50	17.50		15.50	16.50
			48	5240		17.50	17.50		15.50	16.50
		2 Tx TXBF	36	5180	17.00	17.00		16.50	15.50	
			40	5200	17.00	17.00		16.50	15.50	
			44	5220	17.50	17.50		16.50	15.50	
			48	5240	17.50	17.50		16.50	15.50	
			36	5180	17.00		17.00	16.50		16.50
			40	5200	17.00		17.00	16.50		16.50
			44	5220	17.50		17.50	16.50		16.50
			48	5240	17.50		17.50	16.50		16.50
			36	5180		17.00	17.00		15.50	16.50
			40	5200		17.00	17.00		15.50	16.50
			44	5220		17.50	17.50		15.50	16.50
			48	5240		17.50	17.50		15.50	16.50
		3 Tx CDD	36	5180	14.50	14.50	14.50	14.50	14.50	14.50
			40	5200	15.00	15.00	15.00	15.00	15.00	15.00
			44	5220	15.00	15.00	15.00	15.00	15.00	15.00
			48	5240	15.00	15.00	15.00	15.00	15.00	15.00
		3 Tx TXBF	36	5180	14.50	14.50	14.50	14.50	14.50	14.50
			40	5200	15.00	15.00	15.00	15.00	15.00	15.00
			44	5220	15.00	15.00	15.00	15.00	15.00	15.00
			48	5240	15.00	15.00	15.00	15.00	15.00	15.00

Wi-Fi 5.2 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.2 (OFDM) U-NII-1	802.11n	1 Tx HT20 SISO	36	5180	18.00			16.50		
			40	5200	18.00			16.50		
			44	5220	18.00			16.50		
			48	5240	18.00			16.50		
			36	5180		18.00			15.50	
			40	5200		18.00			15.50	
			44	5220		18.00			15.50	
			48	5240		18.00			15.50	
			36	5180			18.00			16.50
			40	5200			18.00			16.50
			44	5220			18.00			16.50
			48	5240			18.00			16.50
		2 Tx HT20 CDD	36	5180	17.00	17.00		16.50	15.50	
			40	5200	17.50	17.50		16.50	15.50	
			48	5240	17.50	17.50		16.50	15.50	
			36	5180	17.00		17.00	16.50		16.50
			40	5200	17.50		17.50	16.50		16.50
			48	5240	17.50		17.50	16.50		16.50
			36	5180		17.00	17.00		15.50	16.50
			40	5200		17.50	17.50		15.50	16.50
			48	5240		17.50	17.50		15.50	16.50
		2 Tx HT20 STBC	36	5180	17.50	17.50		16.50	15.50	
			40	5200	18.00	18.00		16.50	15.50	
			48	5240	18.00	18.00		16.50	15.50	
			36	5180	17.50		17.50	16.50		16.50
			40	5200	18.00		18.00	16.50		16.50
			48	5240	18.00		18.00	16.50		16.50
			36	5180		17.50	17.50		15.50	16.50
			40	5200		18.00	18.00		15.50	16.50
			48	5240		18.00	18.00		15.50	16.50
		2 Tx HT20 SDM	36	5180	17.50	17.50		16.50	15.50	
			40	5200	18.00	18.00		16.50	15.50	
			48	5240	18.00	18.00		16.50	15.50	
			36	5180	17.50		17.50	16.50		16.50
			40	5200	18.00		18.00	16.50		16.50
			48	5240	18.00		18.00	16.50		16.50
			36	5180		17.50	17.50		15.50	16.50
			40	5200		18.00	18.00		15.50	16.50
			48	5240		18.00	18.00		15.50	16.50

Wi-Fi 5.2 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.2 (OFDM) U-NII-1	802.11n	2 Tx HT20 TXBF	36	5180	17.00	17.00		16.50	15.50	
			40	5200	17.00	17.00		16.50	15.50	
			48	5240	17.50	17.50		16.50	15.50	
			36	5180	17.00		17.00	16.50		16.50
			40	5200	17.00		17.00	16.50		16.50
			48	5240	17.50		17.50	16.50		16.50
			36	5180		17.00	17.00		15.50	16.50
			40	5200		17.00	17.00		15.50	16.50
			48	5240		17.50	17.50		15.50	16.50
		3 Tx HT20 CDD	36	5180	14.50	14.50	14.50	14.50	14.50	14.50
			40	5200	15.00	15.00	15.00	15.00	15.00	15.00
			48	5240	15.00	15.00	15.00	15.00	15.00	15.00
		3 Tx HT20 STBC	36	5180	17.50	17.50	17.50	16.50	15.50	16.50
			40	5200	18.00	18.00	18.00	16.50	15.50	16.50
			48	5240	18.00	18.00	18.00	16.50	15.50	16.50
		3 Tx HT20 SDM	36	5180	17.50	17.50	17.50	16.50	15.50	16.50
			40	5200	18.00	18.00	18.00	16.50	15.50	16.50
			48	5240	18.00	18.00	18.00	16.50	15.50	16.50
		3 Tx HT20 TXBF	36	5180	14.50	14.50	14.50	14.50	14.50	14.50
			40	5200	15.00	15.00	15.00	15.00	15.00	15.00
			48	5240	15.00	15.00	15.00	15.00	15.00	15.00
			38	5190	15.50			15.50		
			46	5230	18.00			16.50		
			38	5190		15.50			15.50	
		1 Tx HT40 CDD	46	5230		18.00			15.50	
			38	5190			15.50			15.50
			46	5230			18.00			16.50
			38	5190						
			46	5230						
			38	5190	12.50	12.50		12.50	12.50	
		2 Tx HT40 CDD	46	5230	18.00	18.00		16.50	15.50	
			38	5190	12.50		12.50	12.50		12.50
			46	5230	18.00		18.00	16.50		16.50
			38	5190		12.50	12.50		12.50	12.50
			46	5230		18.00	18.00		15.50	16.50
			38	5190	12.50	12.50		12.50	12.50	
		2 Tx HT40 STBC	46	5230	18.00	18.00		16.50	15.50	
			38	5190	12.50		12.50	12.50		12.50
			46	5230	18.00		18.00	16.50		16.50
			38	5190		12.50	12.50		12.50	12.50
			46	5230		18.00	18.00		15.50	16.50
			38	5190	12.50	12.50		12.50	12.50	

Wi-Fi 5.2 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.2 (OFDM) U-NII-1	802.11n	2 Tx HT40 SDM	38	5190	12.50	12.50		12.50	12.50	
			46	5230	18.00	18.00		16.50	15.50	
			38	5190	12.50		12.50	12.50		12.50
			46	5230	18.00		18.00	16.50		16.50
			38	5190		12.50	12.50		12.50	12.50
			46	5230		18.00	18.00		15.50	16.50
		2 Tx HT40 TXBF	38	5190	13.00	13.00		13.00	13.00	
			46	5230	16.75	16.75		16.50	15.50	
			38	5190	13.00		13.00	13.00		13.00
			46	5230	16.75		16.75	16.50		16.50
			38	5190		13.00	13.00		13.00	13.00
			46	5230		16.75	16.75		15.50	16.50
		3 Tx HT40 CDD	38	5190	12.50	12.50	12.50	12.50	12.50	12.50
			46	5230	18.00	18.00	18.00	16.50	15.50	16.50
		3 Tx HT40 STBC	38	5190	12.25	12.25	12.25	12.25	12.25	12.25
			46	5230	17.75	17.75	17.75	16.50	15.50	16.50
		3 Tx HT40 SDM	38	5190	12.25	12.25	12.25	12.25	12.25	12.25
			46	5230	17.75	17.75	17.75	16.50	15.50	16.50
		3 Tx HT40 TXBF	38	5190	13.00	13.00	13.00	13.00	13.00	13.00
			46	5230	14.25	14.25	14.25	14.25	14.25	14.25
	802.11ac	1 Tx VHT20 SISO	36	5180	18.00			16.50		
			40	5200	18.00			16.50		
			44	5220	18.00			16.50		
			48	5240	18.00			16.50		
			36	5180		18.00			15.50	
			40	5200		18.00			15.50	
			44	5220		18.00			15.50	
			48	5240		18.00			15.50	
			36	5180			18.00			16.50
			40	5200			18.00			16.50
		1 Tx VHT40 SISO	38	5190	15.50			15.50		
			46	5230	18.00			16.50		
			38	5190		15.50			15.50	
			46	5230		18.00			15.50	
			38	5190			15.50			15.50
			46	5230			18.00			16.50
		1 Tx VHT80 SISO	42	5210	14.50			14.50		
			42	5210		14.50			14.50	
			42	5210			14.50			14.50

Wi-Fi 5.2 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.2 (OFDM) U-NII-1	802.11ac	2 Tx VHT20 CDD	36	5180	17.00	17.00		16.50	15.50	
			40	5200	17.50	17.50		16.50	15.50	
			48	5240	17.50	17.50		16.50	15.50	
			36	5180	17.00		17.00	16.50		16.50
			40	5200	17.50		17.50	16.50		16.50
			48	5240	17.50		17.50	16.50		16.50
			36	5180		17.00	17.00		15.50	16.50
			40	5200		17.50	17.50		15.50	16.50
			48	5240		17.50	17.50		15.50	16.50
		2 Tx VHT20 STBC	36	5180	17.50	17.50		16.50	15.50	
			40	5200	18.00	18.00		16.50	15.50	
			48	5240	18.00	18.00		16.50	15.50	
			36	5180	17.50		17.50	16.50		16.50
			40	5200	18.00		18.00	16.50		16.50
			48	5240	18.00		18.00	16.50		16.50
			36	5180		17.50	17.50		15.50	16.50
			40	5200		18.00	18.00		15.50	16.50
			48	5240		18.00	18.00		15.50	16.50
		2 Tx VHT20 SDM	36	5180	17.50	17.50		16.50	15.50	
			40	5200	18.00	18.00		16.50	15.50	
			48	5240	18.00	18.00		16.50	15.50	
			36	5180	17.50		17.50	16.50		16.50
			40	5200	18.00		18.00	16.50		16.50
			48	5240	18.00		18.00	16.50		16.50
			36	5180		17.50	17.50		15.50	16.50
			40	5200		18.00	18.00		15.50	16.50
			48	5240		18.00	18.00		15.50	16.50
		2 Tx VHT20 TXBF	36	5180	17.00	17.00		16.50	15.50	
			40	5200	17.50	17.50		16.50	15.50	
			48	5240	17.00	17.00		16.50	15.50	

Wi-Fi 5.2 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.2 (OFDM) U-NII-1	802.11ac	2 Tx VHT20 TXBF	36	5180	17.00		17.00	16.50		16.50
			40	5200	17.50		17.50	16.50		16.50
			48	5240	17.00		17.00	16.50		16.50
			36	5180		17.00	17.00		15.50	16.50
			40	5200		17.50	17.50		15.50	16.50
			48	5240		17.00	17.00		15.50	16.50
		3 Tx VHT20 CDD	36	5180	14.50	14.50	14.50	14.50	14.50	14.50
			40	5200	15.00	15.00	15.00	15.00	15.00	15.00
			48	5240	15.00	15.00	15.00	15.00	15.00	15.00
		3 Tx VHT20 STBC	36	5180	17.50	17.50	17.50	16.50	15.50	16.50
			40	5200	18.00	18.00	18.00	16.50	15.50	16.50
			48	5240	18.00	18.00	18.00	16.50	15.50	16.50
		3 Tx VHT20 SDM	36	5180	17.50	17.50	17.50	16.50	15.50	16.50
			40	5200	18.00	18.00	18.00	16.50	15.50	16.50
			48	5240	18.00	18.00	18.00	16.50	15.50	16.50
		3 Tx VHT20 TXBF	36	5180	14.50	14.50	14.50	14.50	14.50	14.50
			40	5200	15.00	15.00	15.00	15.00	15.00	15.00
			48	5240	15.00	15.00	15.00	15.00	15.00	15.00
		2 Tx VHT40 CDD	38	5190	12.50	12.50		12.50	12.50	
			46	5230	18.00	18.00		16.50	15.50	
			38	5190	12.50		12.50	12.50		12.50
			46	5230	18.00		18.00	16.50		16.50
			38	5190		12.50	12.50		12.50	12.50
			46	5230		18.00	18.00		15.50	16.50
		2 Tx VHT40 STBC	38	5190	12.50	12.50		12.50	12.50	
			46	5230	18.00	18.00		16.50	15.50	
			38	5190	12.50		12.50	12.50		12.50
			46	5230	18.00		18.00	16.50		16.50
			38	5190		12.50	12.50		12.50	12.50
			46	5230		18.00	18.00		15.50	16.50

Wi-Fi 5.2 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.2 (OFDM) U-NII-1	802.11ac	2 Tx VHT40 SDM	38	5190	12.50	12.50		12.50	12.50	
			46	5230	18.00	18.00		16.50	15.50	
			38	5190	12.50		12.50	12.50		12.50
			46	5230	18.00		18.00	16.50		16.50
			38	5190		12.50	12.50		12.50	12.50
			46	5230		18.00	18.00		15.50	16.50
		2 Tx VHT40 TXBF	38	5190	13.00	13.00		13.00	13.00	
			46	5230	16.75	16.75		16.50	15.50	
			38	5190	13.00		13.00	13.00		13.00
			46	5230	16.75		16.75	16.50		16.50
			38	5190		13.00	13.00		13.00	13.00
			46	5230		16.75	16.75		15.50	16.50
		3 Tx VHT40 CDD	38	5190	12.50	12.50	12.50	12.50	12.50	12.50
			46	5230	18.00	18.00	18.00	16.50	15.50	16.50
		3 Tx VHT40 STBC	38	5190	12.25	12.25	12.25	12.25	12.25	12.25
			46	5230	17.75	17.75	17.75	16.50	15.50	16.50
		3 Tx VHT40 SDM	38	5190	12.25	12.25	12.25	12.25	12.25	12.25
			46	5230	17.75	17.75	17.75	16.50	15.50	16.50
		3 Tx VHT40 TXBF	38	5190	13.00	13.00	13.00	13.00	13.00	13.00
			46	5230	14.25	14.25	14.25	14.25	14.25	14.25
		2 Tx VHT80 CDD	42	5210	12.50	12.50		12.50	12.50	
			42	5210	12.50		12.50	12.50		12.50
			42	5210		12.50	12.50		12.50	12.50
		2 Tx VHT80 STBC	42	5210	12.50	12.50		12.50	12.50	
			42	5210	12.50		12.50	12.50		12.50
			42	5210		12.50	12.50		12.50	12.50
		2 Tx VHT80 SDM	42	5210	12.50	12.50		12.50	12.50	
			42	5210	12.50		12.50	12.50		12.50
			42	5210		12.50	12.50		12.50	12.50
		2 Tx VHT80 TXBF	42	5210	10.25	10.25		10.25	10.25	
			42	5210	10.25		10.25	10.25		10.25
			42	5210		10.25	10.25		10.25	10.25
		3 Tx VHT80 CDD	42	5210	12.50	12.50	12.50	12.50	12.50	12.50
		3 Tx VHT80 STBC	42	5210	12.50	12.50	12.50	12.50	12.50	12.50
		3 Tx VHT80 SDM	42	5210	12.50	12.50	12.50	12.50	12.50	12.50
		3 Tx VHT80 TXBF	42	5210	10.00	10.00	10.00	10.00	10.00	10.00

Note(s):

1) The "Original Approval" power levels were based upon FCC modular approval testing of the BCM943602CS radio. These power levels were approved up to maximum regulatory levels to cover a number of different potential applications.

The original maximum regulatory power levels may be reduced further by the driver for one of the following two reasons:

- a) For performance (i.e. non-regulatory) reasons to ensure that PER and EVM of the radio meet internal specifications.
 - b) For application specifics. In this case the power is reduced to meet the specific SAR requirement per transmit chain over frequency band/channel. SAR specifics are addressed in a Class II permissive change as applicable.
- 2) The 11n 2Tx,3Tx HT20/HT40 "All" modes detailed apply to all of the CDD/STBC/SDM non-transmit beamforming modes.

Wi-Fi 5.3 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.3 (OFDM) U-NII-2A	802.11a	1 Tx	52	5260	18.00			18.00		
			56	5280	18.00			18.00		
			60	5300	18.00			18.00		
			64	5320	18.00			18.00		
			52	5260		18.00			15.00	
			56	5280		18.00			15.00	
			60	5300		18.00			15.00	
			64	5320		18.00			15.00	
			52	5260			18.00			16.50
			56	5280			18.00			16.50
			60	5300			18.00			16.50
			64	5320			18.00			16.50
		2 Tx CDD	52	5260	18.00	18.00		18.00	15.00	
			56	5280	18.00	18.00		18.00	15.00	
			60	5300	18.00	18.00		18.00	15.00	
			64	5320	17.00	17.00		17.00	15.00	
			52	5260	18.00		18.00	18.00		16.50
			56	5280	18.00		18.00	18.00		16.50
			60	5300	18.00		18.00	18.00		16.50
			64	5320	17.00		17.00	17.00		16.50
			52	5260		18.00	18.00		15.00	16.50
			56	5280		18.00	18.00		15.00	16.50
			60	5300		18.00	18.00		15.00	16.50
			64	5320		17.00	17.00		15.00	16.50
		2 Tx TXBF	52	5260	18.00	18.00		18.00	15.00	
			56	5280	18.00	18.00		18.00	15.00	
			60	5300	18.00	18.00		18.00	15.00	
			64	5320	16.50	16.50		16.50	15.00	
			52	5260	18.00		18.00	18.00		16.50
			56	5280	18.00		18.00	18.00		16.50
			60	5300	18.00		18.00	18.00		16.50
			64	5320	16.50		16.50	16.50		16.50
			52	5260		18.00	18.00		15.00	16.50
			56	5280		18.00	18.00		15.00	16.50
			60	5300		18.00	18.00		15.00	16.50
			64	5320		16.50	16.50		15.00	16.50
		3 Tx CDD	52	5260	16.00	16.00	16.00	16.00	15.00	16.00
			56	5280	16.00	16.00	16.00	16.00	15.00	16.00
			60	5300	16.00	16.00	16.00	16.00	15.00	16.00
			64	5320	16.00	16.00	16.00	16.00	15.00	16.00
		3 Tx TXBF	52	5260	16.00	16.00	16.00	16.00	15.00	16.00
			56	5280	16.00	16.00	16.00	16.00	15.00	16.00
			60	5300	16.00	16.00	16.00	16.00	15.00	16.00
			64	5320	16.00	16.00	16.00	16.00	15.00	16.00

Wi-Fi 5.3 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.3 (OFDM) U-NII-2A	802.11n	1 Tx HT20 SISO	52	5260	18.00			18.00		
			60	5300	18.00			18.00		
			64	5320	18.00			18.00		
			52	5260		18.00			15.00	
			60	5300		18.00			15.00	
			64	5320		18.00			15.00	
			52	5260			18.00			16.50
			60	5300			18.00			16.50
			64	5320			18.00			16.50
		1 Tx HT40 SISO	54	5270	18.00			18.00		
			62	5310	15.00			15.00		
			54	5270		18.00			15.00	
			62	5310		15.00			15.00	
			54	5270			18.00			16.50
			62	5310			15.00			15.00
		2 Tx HT20 CDD	52	5260	18.00	18.00		18.00	15.00	
			60	5300	18.00	18.00		18.00	15.00	
			64	5320	17.00	17.00		17.00	15.00	
			52	5260	18.00		18.00	18.00		16.50
			60	5300	18.00		18.00	18.00		16.50
			64	5320	17.00		17.00	17.00		16.50
			52	5260		18.00	18.00		15.00	16.50
			60	5300		18.00	18.00		15.00	16.50
			64	5320		17.00	17.00		15.00	16.50
		2 Tx HT20 STBC/SDM	52	5260	18.00	18.00		18.00	15.00	
			56	5280	18.00	18.00		18.00	15.00	
			60	5300	18.00	18.00		18.00	15.00	
			64	5320	17.00	17.00		17.00	15.00	
			52	5260	18.00		18.00	18.00		16.50
			56	5280	18.00		18.00	18.00		16.50
			60	5300	18.00		18.00	18.00		16.50
			64	5320	17.00		17.00	17.00		16.50
			52	5260		18.00	18.00		15.00	16.50
			56	5280		18.00	18.00		15.00	16.50
			60	5300		18.00	18.00		15.00	16.50
			64	5320		17.00	17.00		15.00	16.50

Wi-Fi 5.3 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.3 (OFDM) U-NII-2A	802.11n	2 Tx HT20 TXBF	52	5260	18.00	18.00		18.00	15.00	
			56	5280	18.00	18.00		18.00	15.00	
			64	5320	16.50	16.50		16.50	15.00	
			52	5260	18.00		18.00	18.00		16.50
			56	5280	18.00		18.00	18.00		16.50
			64	5320	16.50		16.50	16.50		16.50
			52	5260		18.00	18.00		15.00	16.50
			56	5280		18.00	18.00		15.00	16.50
			64	5320		16.50	16.50		15.00	16.50
		2 Tx HT40 CDD	54	5270	18.00	18.00		18.00	15.00	
			62	5310	12.50	12.50		12.50	12.50	
			54	5270	18.00		18.00	18.00		16.50
			62	5310	12.50		12.50	12.50		12.50
			54	5270		18.00	18.00		15.00	16.50
			62	5310		12.50	12.50		12.50	12.50
		2 Tx HT40 STBC/SDM	54	5270	18.00	18.00		18.00	15.00	
			62	5310	12.50	12.50		12.50	12.50	
			54	5270	18.00		18.00	18.00		16.50
			62	5310	12.50		12.50	12.50		12.50
			54	5270		18.00	18.00		15.00	16.50
			62	5310		12.50	12.50		12.50	12.50
		2 Tx HT40 TXBF	54	5270	16.50	16.50		16.50	15.00	
			62	5310	12.00	12.00		12.00	12.00	
			54	5270	16.50		16.50	16.50		16.50
			62	5310	12.00		12.00	12.00		12.00
			54	5270		16.50	16.50		15.00	16.50
			62	5310		12.00	12.00		12.00	12.00
		3 Tx HT20 CDD	52	5260	16.00	16.00	16.00	16.00	15.00	16.00
			60	5300	16.00	16.00	16.00	16.00	15.00	16.00
			64	5320	16.00	16.00	16.00	16.00	15.00	16.00
		3 Tx HT20 STBC/SDM	52	5260	18.00	18.00	18.00	18.00	15.00	16.50
			56	5280	18.00	18.00	18.00	18.00	15.00	16.50
			64	5320	17.00	17.00	17.00	17.00	15.00	16.50
		3 Tx HT20 TXBF	52	5260	16.00	16.00	16.00	16.00	15.00	16.00
			56	5280	16.00	16.00	16.00	16.00	15.00	16.00
			64	5320	16.00	16.00	16.00	16.00	15.00	16.00
		3 Tx HT40 CDD	54	5270	18.00	18.00	18.00	18.00	15.00	16.50
			62	5310	12.50	12.50	12.50	12.50	12.50	12.50
		3 Tx HT40 STBC/SDM	54	5270	17.75	17.75	17.75	17.75	15.00	16.50
			62	5310	12.50	12.50	12.50	12.50	12.50	12.50
		3 Tx HT40 TXBF	54	5270	14.00	14.00	14.00	14.00	14.00	14.00
			62	5310	12.00	12.00	12.00	12.00	12.00	12.00

Wi-Fi 5.3 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.3 (OFDM) U-NII-2A	802.11ac	1 Tx VHT20 SISO	52	5260	18.00			18.00		
			60	5300	18.00			18.00		
			64	5320	18.00			18.00		
			52	5260		18.00			15.00	
			60	5300		18.00			15.00	
			64	5320		18.00			15.00	
			52	5260			18.00			16.50
			60	5300			18.00			16.50
			64	5320			18.00			16.50
		1 Tx VHT40 SISO	54	5270	18.00			18.00		
			62	5310	15.00			15.00		
			54	5270		18.00			15.00	
			62	5310		15.00			15.00	
			54	5270			18.00			16.50
			62	5310			15.00			15.00
		1 Tx VHT80 SISO	58	5290	13.75			13.75		
			58	5290		13.75			13.75	
			58	5290			13.75			13.75
		2 Tx VHT20 CDD	52	5260	18.00	18.00		18.00	15.00	
			60	5300	18.00	18.00		18.00	15.00	
			64	5320	17.00	17.00		17.00	15.00	
			52	5260	18.00		18.00	18.00		16.50
			60	5300	18.00		18.00	18.00		16.50
			64	5320	17.00		17.00	17.00		16.50
			52	5260		18.00	18.00		15.00	16.50
			60	5300		18.00	18.00		15.00	16.50
			64	5320		17.00	17.00		15.00	16.50
		2 Tx VHT20 STBC/SDM	52	5260	18.00	18.00		18.00	15.00	
			56	5280	18.00	18.00		18.00	15.00	
			64	5320	17.00	17.00		17.00	15.00	
			52	5260	18.00		18.00	18.00		16.50
			56	5280	18.00		18.00	18.00		16.50
			64	5320	17.00		17.00	17.00		16.50
			52	5260		18.00	18.00		15.00	16.50
			56	5280		18.00	18.00		15.00	16.50
			64	5320		17.00	17.00		15.00	16.50
		2 Tx VHT20 TXBF	52	5260	18.00	18.00		18.00	15.00	
			56	5280	18.00	18.00		18.00	15.00	
			64	5320	16.50	16.50		16.50	15.00	
			52	5260	18.00		18.00	18.00		16.50
			56	5280	18.00		18.00	18.00		16.50
			64	5320	16.50		16.50	16.50		16.50
			52	5260		18.00	18.00		15.00	16.50
			56	5280		18.00	18.00		15.00	16.50
			64	5320		16.50	16.50		15.00	16.50

Wi-Fi 5.3 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.3 (OFDM) U-NII-2A	802.11ac	2 Tx VHT40 CDD	54	5270	18.00	18.00		18.00	15.00	
			62	5310	12.50	12.50		12.50	12.50	
			54	5270	18.00		18.00	18.00		16.50
			62	5310	12.50		12.50	12.50		12.50
			54	5270		18.00	18.00		15.00	16.50
			62	5310		12.50	12.50		12.50	12.50
		2 Tx VHT40 STBC/SDM	54	5270	18.00	18.00		18.00	15.00	
			62	5310	12.50	12.50		12.50	12.50	
			54	5270	18.00		18.00	18.00		16.50
			62	5310	12.50		12.50	12.50		12.50
			54	5270		18.00	18.00		15.00	16.50
			62	5310		12.50	12.50		12.50	12.50
		2 Tx VHT40 TXBF	54	5270	16.50	16.50		16.50	15.00	
			62	5310	12.00	12.00		12.00	12.00	
			54	5270	16.50		16.50	16.50		16.50
			62	5310	12.00		12.00	12.00		12.00
			54	5270		16.50	16.50		15.00	16.50
			62	5310		12.00	12.00		12.00	12.00
		2 Tx VHT80 CDD	58	5290	11.50	11.50		11.50	11.50	
			58	5290	11.50		11.50	11.50		11.50
			58	5290		11.50	11.50		11.50	11.50
		2 Tx VHT80 STBC/SDM	58	5290	11.50	11.50		11.50	11.50	
			58	5290	11.50		11.50	11.50		11.50
			58	5290		11.50	11.50		11.50	11.50
		2 Tx VHT80 TXBF	58	5290	9.50	9.50		9.50	9.50	
			58	5290	9.50		9.50	9.50		9.50
			58	5290		9.50	9.50		9.50	9.50

Wi-Fi 5.3 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.3 (OFDM) U-NII-2A	802.11ac	3 Tx VHT20 CDD	52	5260	16.00	16.00	16.00	16.00	15.00	16.00
			60	5300	16.00	16.00	16.00	16.00	15.00	16.00
			64	5320	16.00	16.00	16.00	16.00	15.00	16.00
		3 Tx VHT20 STBC	52	5260	18.00	18.00	18.00	18.00	15.00	16.50
			56	5280	18.00	18.00	18.00	18.00	15.00	16.50
			64	5320	17.00	17.00	17.00	17.00	15.00	16.50
		3 Tx VHT20 TXBF	52	5260	16.00	16.00	16.00	16.00	15.00	16.00
			56	5280	16.00	16.00	16.00	16.00	15.00	16.00
			64	5320	16.00	16.00	16.00	16.00	15.00	16.00
		3 Tx VHT40 CDD	54	5270	18.00	18.00	18.00	18.00	15.00	16.50
			62	5310	12.50	12.50	12.50	12.50	12.50	12.50
		3 Tx VHT40 STBC	54	5270	17.75	17.75	17.75	17.75	15.00	16.50
			62	5310	12.50	12.50	12.50	12.50	12.50	12.50
		3 Tx VHT40 TXBF	54	5270	14.00	14.00	14.00	14.00	14.00	14.00
			62	5310	12.00	12.00	12.00	12.00	12.00	12.00
		3 Tx VHT80 CDD	58	5290	11.50	11.50	11.50	11.50	11.50	11.50
		3 Tx VHT80 STBC/SDM	58	5290	11.50	11.50	11.50	11.50	11.50	11.50
		3 Tx VHT80 TXBF	58	5290	9.50	9.50	9.50	9.50	9.50	9.50

Note(s):

1) The "Original Approval" power levels were based upon FCC modular approval testing of the BCM943602CS radio. These power levels were approved up to maximum regulatory levels to cover a number of different potential applications.

The original maximum regulatory power levels may be reduced further by the driver for one of the following two reasons:

- a) For performance (i.e. non-regulatory) reasons to ensure that PER and EVM of the radio meet internal specifications.
- b) For application specifics. In this case the power is reduced to meet the specific SAR requirement per transmit chain over frequency band/channel. SAR specifics are addressed in a Class II permissive change as applicable.

2) The 11n 2Tx,3Tx HT20/HT40 "All" modes detailed apply to all of the CDD/STBC/SDM non-transmit beamforming modes.

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11a	1 Tx	100	5500	17.00			17.00		
			104	5520	18.00			17.50		
			108	5540	18.00			17.50		
			112	5560	18.00			17.50		
			116	5580	18.00			17.50		
			120	5600	18.00			17.50		
			124	5620	18.00			17.50		
			128	5640	18.00			17.50		
			132	5660	18.00			17.50		
			136	5680	18.00			17.50		
			140	5700	16.25			16.25		
			144	5720	18.00			17.50		
			100	5500		17.00			15.50	
			104	5520		18.00			15.50	
			108	5540		18.00			15.50	
			112	5560		18.00			15.50	
			116	5580		18.00			15.50	
			120	5600		18.00			15.50	
			124	5620		18.00			15.50	
			128	5640		18.00			15.50	
			132	5660		18.00			15.50	
			136	5680		18.00			15.50	
			140	5700		16.25			15.50	
			144	5720		18.00			15.50	
			100	5500			17.00			16.75
			104	5520			18.00			16.75
			108	5540			18.00			16.75
			112	5560			18.00			16.75
			116	5580			18.00			16.75
			120	5600			18.00			16.75
			124	5620			18.00			16.75
			128	5640			18.00			16.75
			132	5660			18.00			16.75
			136	5680			18.00			16.75
			140	5700			16.25			16.25
			144	5720			18.00			16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11a	2 Tx CDD	100	5500	16.00	16.00		16.00	15.50	
			104	5520	18.00	18.00		17.50	15.50	
			108	5540	18.00	18.00		17.50	15.50	
			112	5560	18.00	18.00		17.50	15.50	
			116	5580	18.00	18.00		17.50	15.50	
			120	5600	18.00	18.00		17.50	15.50	
			124	5620	18.00	18.00		17.50	15.50	
			128	5640	18.00	18.00		17.50	15.50	
			132	5660	18.00	18.00		17.50	15.50	
			136	5680	18.00	18.00		17.50	15.50	
			140	5700	14.50	14.50		14.50	14.50	
			144	5720	18.00	18.00		17.50	15.50	
			100	5500	16.00		16.00	16.00		16.00
			104	5520	18.00		18.00	17.50		16.75
			108	5540	18.00		18.00	17.50		16.75
			112	5560	18.00		18.00	17.50		16.75
			116	5580	18.00		18.00	17.50		16.75
			120	5600	18.00		18.00	17.50		16.75
			124	5620	18.00		18.00	17.50		16.75
			128	5640	18.00		18.00	17.50		16.75
			132	5660	18.00		18.00	17.50		16.75
			136	5680	18.00		18.00	17.50		16.75
			140	5700	14.50		14.50	14.50		14.50
			144	5720	18.00		18.00	18.00		16.75
		2 Tx TXBF	100	5500		16.00	16.00		15.50	16.00
			104	5520		18.00	18.00		15.50	16.75
			108	5540		18.00	18.00		15.50	16.75
			112	5560		18.00	18.00		15.50	16.75
			116	5580		18.00	18.00		15.50	16.75
			120	5600		18.00	18.00		15.50	16.75
			124	5620		18.00	18.00		15.50	16.75
			128	5640		18.00	18.00		15.50	16.75
			132	5660		18.00	18.00		15.50	16.75
			136	5680		18.00	18.00		15.50	16.75
			140	5700		14.50	14.50		14.50	14.50
			144	5720		18.00	18.00		15.50	16.75
			100	5500	17.50	17.50		17.50	15.50	
			104	5520	18.00	18.00		17.50	15.50	
			108	5540	18.00	18.00		17.50	15.50	
			112	5560	18.00	18.00		17.50	15.50	
			116	5580	18.00	18.00		17.50	15.50	
			120	5600	18.00	18.00		17.50	15.50	
			124	5620	18.00	18.00		17.50	15.50	
			128	5640	18.00	18.00		17.50	15.50	
			132	5660	18.00	18.00		17.50	15.50	
			136	5680	18.00	18.00		17.50	15.50	
			140	5700	14.50	14.50		14.50	14.50	
			144	5720	18.00	18.00		17.50	15.50	

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11a	2 Tx TXBF	100	5500	17.50		17.50	17.50		16.75
			104	5520	18.00		18.00	17.50		16.75
			108	5540	18.00		18.00	17.50		16.75
			112	5560	18.00		18.00	17.50		16.75
			116	5580	18.00		18.00	17.50		16.75
			120	5600	18.00		18.00	17.50		16.75
			124	5620	18.00		18.00	17.50		16.75
			128	5640	18.00		18.00	17.50		16.75
			132	5660	18.00		18.00	17.50		16.75
			136	5680	18.00		18.00	17.50		16.75
			140	5700	15.50		15.50	15.50		15.50
			144	5720	18.00		18.00	17.50		16.75
			100	5500		17.50	17.50		15.50	16.75
			104	5520		18.00	18.00		15.50	16.75
			108	5540		18.00	18.00		15.50	16.75
		3 Tx CDD	112	5560		18.00	18.00		15.50	16.75
			116	5580		18.00	18.00		15.50	16.75
			120	5600		18.00	18.00		15.50	16.75
			124	5620		18.00	18.00		15.50	16.75
			128	5640		18.00	18.00		15.50	16.75
			132	5660		18.00	18.00		15.50	16.75
			136	5680		18.00	18.00		15.50	16.75
			140	5700		15.50	15.50		15.50	15.50
			144	5720		18.00	18.00		15.50	16.75
			100	5500	15.50	15.50	15.50	15.50	15.50	15.50
			104	5520	15.50	15.50	15.50	15.50	15.50	15.50
			108	5540	15.50	15.50	15.50	15.50	15.50	15.50
			112	5560	15.50	15.50	15.50	15.50	15.50	15.50
			116	5580	15.50	15.50	15.50	15.50	15.50	15.50
		3 Tx TXBF	120	5600	15.50	15.50	15.50	15.50	15.50	15.50
			124	5620	15.50	15.50	15.50	15.50	15.50	15.50
			128	5640	15.50	15.50	15.50	15.50	15.50	15.50
			132	5660	15.50	15.50	15.50	15.50	15.50	15.50
			136	5680	15.50	15.50	15.50	15.50	15.50	15.50
			140	5700	15.50	15.50	15.50	15.50	15.50	15.50
			144	5720	15.50	15.50	15.50	15.50	15.50	15.50
			100	5500	15.50	15.50	15.50	15.50	15.50	15.50
			104	5520	15.50	15.50	15.50	15.50	15.50	15.50
			108	5540	15.50	15.50	15.50	15.50	15.50	15.50
			112	5560	15.50	15.50	15.50	15.50	15.50	15.50

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11n	1 Tx HT20 SISO	100	5500	17.00			17.00		
			104	5520	18.00			17.50		
			108	5540	18.00			17.50		
			112	5560	18.00			17.50		
			116	5580	18.00			17.50		
			120	5600	18.00			17.50		
			124	5620	18.00			17.50		
			128	5640	18.00			17.50		
			132	5660	18.00			17.50		
			136	5680	18.00			17.50		
			140	5700	16.25			16.25		
			144	5720	18.00			17.50		
			100	5500		17.00			15.50	
			104	5520		18.00			15.50	
			108	5540		18.00			15.50	
			112	5560		18.00			15.50	
			116	5580		18.00			15.50	
			120	5600		18.00			15.50	
			124	5620		18.00			15.50	
			128	5640		18.00			15.50	
			132	5660		18.00			15.50	
			136	5680		18.00			15.50	
			140	5700		16.25			15.50	
			144	5720		18.00			15.50	
			100	5500			17.00			16.75
			104	5520			18.00			16.75
			108	5540			18.00			16.75
			112	5560			18.00			16.75
			116	5580			18.00			16.75
			120	5600			18.00			16.75
			124	5620			18.00			16.75
			128	5640			18.00			16.75
			132	5660			18.00			16.75
			136	5680			18.00			16.75
			140	5700			16.25			16.25
			144	5720			18.00			16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11n	1 Tx HT40 SISO	102	5510	16.00			16.00		
			110	5550	18.00			17.50		
			118	5590	18.00			17.50		
			126	5630	18.00			17.50		
			134	5670	18.00			17.50		
			142	5710	18.00			17.50		
			102	5510		16.00			15.50	
			110	5550		18.00			15.50	
			118	5590		18.00			15.50	
			126	5630		18.00			15.50	
			134	5670		18.00			15.50	
			142	5710		18.00			15.50	
			102	5510			16.00			16.00
			110	5550			18.00			16.75
			118	5590			18.00			16.75
			126	5630			18.00			16.75
			134	5670			18.00			16.75
			142	5710			18.00			16.75
		2 Tx HT20 CDD	100	5500	16.00	16.00		16.00	15.50	
			104	5520	18.00	18.00		17.50	15.50	
			108	5540	18.00	18.00		17.50	15.50	
			112	5560	18.00	18.00		17.50	15.50	
			116	5580	18.00	18.00		17.50	15.50	
			120	5600	18.00	18.00		17.50	15.50	
			124	5620	18.00	18.00		17.50	15.50	
			128	5640	18.00	18.00		17.50	15.50	
			136	5680	18.00	18.00		17.50	15.50	
			140	5700	14.50	14.50		14.50	14.50	
			144	5720	18.00	18.00		17.50	15.50	
			100	5500	16.00		16.00	16.00		16.00
			104	5520	18.00		18.00	17.50		16.75
			108	5540	18.00		18.00	17.50		16.75
			112	5560	18.00		18.00	17.50		16.75
			116	5580	18.00		18.00	17.50		16.75
			120	5600	18.00		18.00	17.50		16.75
			124	5620	18.00		18.00	17.50		16.75
			128	5640	18.00		18.00	17.50		16.75
			136	5680	18.00		18.00	17.50		16.75
			140	5700	14.50		14.50	14.50		14.50
			144	5720	18.00		18.00	17.50		16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11n	2 Tx HT20 CDD	100	5500		16.00	16.00		15.50	16.00
			104	5520		18.00	18.00		15.50	16.75
			108	5540		18.00	18.00		15.50	16.75
			112	5560		18.00	18.00		15.50	16.75
			116	5580		18.00	18.00		15.50	16.75
			120	5600		18.00	18.00		15.50	16.75
			124	5620		18.00	18.00		15.50	16.75
			128	5640		18.00	18.00		15.50	16.75
			136	5680		18.00	18.00		15.50	16.75
			140	5700		14.50	14.50		14.50	14.50
			144	5720		18.00	18.00		15.50	16.75
		2 Tx HT20 STBC/SDM	100	5500	16.00	16.00		16.00	15.50	
			104	5520	18.00	18.00		17.50	15.50	
			108	5540	18.00	18.00		17.50	15.50	
			112	5560	18.00	18.00		17.50	15.50	
			116	5580	18.00	18.00		17.50	15.50	
			120	5600	18.00	18.00		17.50	15.50	
			124	5620	18.00	18.00		17.50	15.50	
			128	5640	18.00	18.00		17.50	15.50	
			136	5680	18.00	18.00		17.50	15.50	
			140	5700	14.50	14.50		14.50	14.50	
			144	5720	18.00	18.00		17.50	15.50	
			100	5500	16.00		16.00	16.00		16.00
			104	5520	18.00		18.00	17.50		16.75
			108	5540	18.00		18.00	17.50		16.75
			112	5560	18.00		18.00	17.50		16.75
			116	5580	18.00		18.00	17.50		16.75
			120	5600	18.00		18.00	17.50		16.75
			124	5620	18.00		18.00	17.50		16.75
			128	5640	18.00		18.00	17.50		16.75
			136	5680	18.00		18.00	17.50		16.75
			140	5700	14.50		14.50	14.50		14.50
			144	5720	18.00		18.00	17.50		16.75
			100	5500		16.00	16.00		15.50	16.00
			104	5520		18.00	18.00		15.50	16.75
			108	5540		18.00	18.00		15.50	16.75
			112	5560		18.00	18.00		15.50	16.75
			116	5580		18.00	18.00		15.50	16.75
			120	5600		18.00	18.00		15.50	16.75
			124	5620		18.00	18.00		15.50	16.75
			128	5640		18.00	18.00		15.50	16.75
			136	5680		18.00	18.00		15.50	16.75
			140	5700		14.50	14.50		14.50	14.50
			144	5720		18.00	18.00		15.50	16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C		2 Tx HT20 TXBF	100	5500	17.50	17.50		17.50	15.50	
			104	5520	18.00	18.00		17.50	15.50	
			108	5540	18.00	18.00		17.50	15.50	
			112	5560	18.00	18.00		17.50	15.50	
			116	5580	18.00	18.00		17.50	15.50	
			120	5600	18.00	18.00		17.50	15.50	
			124	5620	18.00	18.00		17.50	15.50	
			128	5640	18.00	18.00		17.50	15.50	
			136	5680	18.00	18.00		17.50	15.50	
			140	5700	15.50	15.50		15.50	15.50	
			144	5720	18.00	18.00		17.50	15.50	
			100	5500	17.50		17.50	17.50		16.75
			104	5520	18.00		18.00	17.50		16.75
			108	5540	18.00		18.00	17.50		16.75
			112	5560	18.00		18.00	17.50		16.75
			116	5580	18.00		18.00	17.50		16.75
			120	5600	18.00		18.00	17.50		16.75
			124	5620	18.00		18.00	17.50		16.75
			128	5640	18.00		18.00	17.50		16.75
			136	5680	18.00		18.00	17.50		16.75
			140	5700	15.50		15.50	15.50		15.50
			144	5720	18.00		18.00	17.50		16.75
		3 Tx HT20 CDD	100	5500		17.50	17.50		15.50	16.75
			104	5520		18.00	18.00		15.50	16.75
			108	5540		18.00	18.00		15.50	16.75
			112	5560		18.00	18.00		15.50	16.75
			116	5580		18.00	18.00		15.50	16.75
			120	5600		18.00	18.00		15.50	16.75
			124	5620		18.00	18.00		15.50	16.75
			128	5640		18.00	18.00		15.50	16.75
			136	5680		18.00	18.00		15.50	16.75
			140	5700		15.50	15.50		15.50	15.50
			144	5720		18.00	18.00		15.50	16.75
			100	5500	15.50	15.50	15.50	15.50	15.50	15.50
			104	5520	15.50	15.50	15.50	15.50	15.50	15.50
			108	5540	15.50	15.50	15.50	15.50	15.50	15.50
			112	5560	15.50	15.50	15.50	15.50	15.50	15.50
			116	5580	15.50	15.50	15.50	15.50	15.50	15.50
			120	5600	15.50	15.50	15.50	15.50	15.50	15.50
			124	5620	15.50	15.50	15.50	15.50	15.50	15.50
			128	5640	15.50	15.50	15.50	15.50	15.50	15.50
			136	5680	15.50	15.50	15.50	15.50	15.50	15.50
			140	5700	14.50	14.50	14.50	14.50	14.50	14.50
			144	5720	15.50	15.50	15.50	15.50	15.50	15.50

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11n	3 Tx HT20 STBC/SDM	100	5500	16.00	16.00	16.00	16.00	15.50	16.00
			104	5520	18.00	18.00	18.00	17.50	15.50	16.75
			108	5540	18.00	18.00	18.00	17.50	15.50	16.75
			112	5560	18.00	18.00	18.00	17.50	15.50	16.75
			116	5580	18.00	18.00	18.00	17.50	15.50	16.75
			120	5600	18.00	18.00	18.00	17.50	15.50	16.75
			124	5620	18.00	18.00	18.00	17.50	15.50	16.75
			128	5640	18.00	18.00	18.00	17.50	15.50	16.75
			136	5680	18.00	18.00	18.00	17.50	15.50	16.75
			140	5700	14.50	14.50	14.50	14.50	14.50	14.50
			144	5720	18.00	18.00	18.00	17.50	15.50	16.75
		3 Tx HT20 TXBF	100	5500	15.50	15.50	15.50	15.50	15.50	15.50
			104	5520	15.50	15.50	15.50	15.50	15.50	15.50
			108	5540	15.50	15.50	15.50	15.50	15.50	15.50
			112	5560	15.50	15.50	15.50	15.50	15.50	15.50
			116	5580	15.50	15.50	15.50	15.50	15.50	15.50
			120	5600	15.50	15.50	15.50	15.50	15.50	15.50
			124	5620	15.50	15.50	15.50	15.50	15.50	15.50
			128	5640	15.50	15.50	15.50	15.50	15.50	15.50
			132	5660	14.50	14.50	14.50	14.50	14.50	14.50
			136	5680	14.50	14.50	14.50	14.50	14.50	14.50
			140	5700	14.50	14.50	14.50	14.50	14.50	14.50
			144	5720	14.50	14.50	14.50	14.50	14.50	14.50
		2 Tx HT40 CDD	102	5510	12.00	12.00		12.00	12.00	
			110	5550	19.00	19.00		17.50	15.50	
			118	5590	19.00	19.00		17.50	15.50	
			126	5630	19.00	19.00		17.50	15.50	
			134	5670	16.50	16.50		16.50	15.50	
			142	5710	18.00	18.00		17.50	15.50	
			102	5510	12.00		12.00	12.00		12.00
			110	5550	19.00		19.00	17.50		16.75
			118	5590	19.00		19.00	17.50		16.75
			126	5630	19.00		19.00	17.50		16.75
			134	5670	16.50		16.50	16.50		16.50
			142	5710	18.00		18.00	17.50		16.75
			102	5510		12.00	12.00		12.00	12.00
			110	5550		19.00	19.00		15.50	16.75
			118	5590		19.00	19.00		15.50	16.75
			126	5630		19.00	19.00		15.50	16.75
			134	5670		16.50	16.50		15.50	16.50
			142	5710		18.00	18.00		15.50	16.75
		2 Tx HT40 STBC/SDM	102	5510	12.00	12.00		12.00	12.00	
			110	5550	19.00	19.00		17.50	15.50	
			118	5590	19.00	19.00		17.50	15.50	
			126	5630	19.00	19.00		17.50	15.50	
			134	5670	16.50	16.50		16.50	15.50	
			142	5710	18.00	18.00		17.50	15.50	

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11n	2 TX HT40 STBC/SDM	102	5510		11.00	11.00		11.00	11.00
			110	5550		17.50	17.50		15.50	16.75
			118	5590		17.50	17.50		15.50	16.75
			126	5630		17.50	17.50		15.50	16.75
			134	5670		16.00	16.00		15.50	16.00
			142	5710		17.50	17.50		15.50	16.75
			102	5510		12.00	12.00		12.00	12.00
			110	5550		19.00	19.00		15.50	16.75
			118	5590		19.00	19.00		15.50	16.75
			126	5630		19.00	19.00		15.50	16.75
			134	5670		16.50	16.50		15.50	16.50
			142	5710		18.00	18.00		15.50	16.75
		2 Tx HT40 TXBF	102	5510	11.00	11.00		11.00	11.00	
			110	5550	17.50	17.50		17.50	15.50	
			118	5590	17.50	17.50		17.50	15.50	
			126	5630	17.50	17.50		17.50	15.50	
			134	5670	16.00	16.00		16.00	15.50	
			142	5710	17.50	17.50		17.50	15.50	
			102	5510	11.00		11.00	11.00		11.00
			110	5550	17.50		17.50	17.50		16.75
			118	5590	17.50		17.50	17.50		16.75
			126	5630	17.50		17.50	17.50		16.75
			134	5670	16.00		16.00	16.00		16.00
			142	5710	17.50		17.50	17.50		16.75
		3 Tx HT40 CDD	102	5510		11.00	11.00		11.00	11.00
			110	5550		17.50	17.50		15.50	16.75
			118	5590		17.50	17.50		15.50	16.75
			126	5630		17.50	17.50		15.50	16.75
			134	5670		16.00	16.00		15.50	16.00
			142	5710		17.50	17.50		15.50	16.75
		3 Tx HT40 STBC/SDM	102	5510	12.00	12.00	12.00	12.00	12.00	12.00
			110	5550	19.00	19.00	19.00	17.50	15.50	16.75
			118	5590	19.00	19.00	19.00	17.50	15.50	16.75
			126	5630	19.00	19.00	19.00	17.50	15.50	16.75
		3 Tx HT40 TXBF	102	5510	11.00	11.00	11.00	11.00	11.00	11.00
			110	5550	14.75	14.75	14.75	14.75	14.75	14.75
			118	5590	14.75	14.75	14.75	14.75	14.75	14.75
			126	5630	14.75	14.75	14.75	14.75	14.75	14.75
			134	5670	14.75	14.75	14.75	14.75	14.75	14.75
			142	5710	15.00	15.00	15.00	15.00	15.00	15.00

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11n	3 Tx HT40 TXBF	100	5500	17.00			17.00		
			104	5520	18.00			17.50		
			108	5540	18.00			17.50		
			112	5560	18.00			17.50		
			116	5580	18.00			17.50		
			120	5600	18.00			17.50		
			124	5620	18.00			17.50		
			128	5640	18.00			17.50		
			136	5680	18.00			17.50		
			140	5700	16.25			16.25		
			144	5720	18.00			17.50		
		1 Tx VHT20 SISO	100	5500		17.00			15.50	
			104	5520		18.00			15.50	
			108	5540		18.00			15.50	
			112	5560		18.00			15.50	
			116	5580		18.00			15.50	
			120	5600		18.00			15.50	
			124	5620		18.00			15.50	
			128	5640		18.00			15.50	
			136	5680		18.00			15.50	
			140	5700		16.25			15.50	
			144	5720		18.00			15.50	
			100	5500			17.00			16.75
			104	5520			18.00			16.75
			108	5540			18.00			16.75
			112	5560			18.00			16.75
			116	5580			18.00			16.75
			120	5600			18.00			16.75
			124	5620			18.00			16.75
			128	5640			18.00			16.75
			136	5680			18.00			16.75
			140	5700			16.25			16.25
			144	5720			18.00			16.75
		1 Tx VHT40 SISO	102	5510	16.00			16.00		
			110	5550	18.00			17.50		
			118	5590	18.00			17.50		
			126	5630	18.00			17.50		
			134	5670	18.00			17.50		
			142	5710	18.00			17.50		
			102	5510		16.00			15.50	
			110	5550		18.00			15.50	
			118	5590		18.00			15.50	
			126	5630		18.00			15.50	
			134	5670		18.00			15.50	
			142	5710		18.00			15.50	
			102	5510			16.00			16.00
			110	5550			18.00			16.75
			118	5590			18.00			16.75
			126	5630			18.00			16.75
			134	5670			18.00			16.75
			142	5710			18.00			16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11ac	1 Tx VHT80	106	5530	12.75			12.75		
			122	5610	18.00			17.50		
			138	5690	18.00			17.50		
			106	5530		12.75			12.75	
			122	5610		18.00			15.50	
			138	5690		18.00			15.50	
			106	5530			12.75			12.75
			122	5610			18.00			16.75
			138	5690			18.00			16.75
		2 Tx VHT 20 CDD	100	5500	16.00	16.00		16.00	15.50	
			104	5520	18.00	18.00		17.50	15.50	
			108	5540	18.00	18.00		17.50	15.50	
			112	5560	18.00	18.00		17.50	15.50	
			116	5580	18.00	18.00		17.50	15.50	
			120	5600	18.00	18.00		17.50	15.50	
			124	5620	18.00	18.00		17.50	15.50	
			128	5640	18.00	18.00		17.50	15.50	
			136	5680	18.00	18.00		17.50	15.50	
			140	5700	14.50	14.50		14.50	14.50	
			144	5720	18.00	18.00		17.50	15.50	
			100	5500	16.00		16.00	16.00		16.00
			104	5520	18.00		18.00	17.50		16.75
			108	5540	18.00		18.00	17.50		16.75
			112	5560	18.00		18.00	17.50		16.75
			116	5580	18.00		18.00	17.50		16.75
			120	5600	18.00		18.00	17.50		16.75
			124	5620	18.00		18.00	17.50		16.75
			128	5640	18.00		18.00	17.50		16.75
			136	5680	18.00		18.00	17.50		16.75
			140	5700	14.50		14.50	14.50		14.50
			144	5720	18.00		18.00	17.50		16.75
			100	5500		16.00	16.00		15.50	16.00
			104	5520		18.00	18.00		15.50	16.75
			108	5540		18.00	18.00		15.50	16.75
			112	5560		18.00	18.00		15.50	16.75
			116	5580		18.00	18.00		15.50	16.75
			120	5600		18.00	18.00		15.50	16.75
			124	5620		18.00	18.00		15.50	16.75
			128	5640		18.00	18.00		15.50	16.75
			136	5680		18.00	18.00		15.50	16.75
			140	5700		14.50	14.50		14.50	14.50
			144	5720		18.00	18.00		15.50	16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11ac	2 Tx VHT20 STBC/SDM	100	5500	16.00	16.00		16.00	15.50	
			104	5520	18.00	18.00		17.50	15.50	
			108	5540	18.00	18.00		17.50	15.50	
			112	5560	18.00	18.00		17.50	15.50	
			116	5580	18.00	18.00		17.50	15.50	
			120	5600	18.00	18.00		17.50	15.50	
			124	5620	18.00	18.00		17.50	15.50	
			128	5640	18.00	18.00		17.50	15.50	
			136	5680	18.00	18.00		17.50	15.50	
			140	5700	14.50	14.50		14.50	14.50	
			144	5720	18.00	18.00		17.50	15.50	
			100	5500	16.00		16.00	16.00		16.00
			104	5520	18.00		18.00	17.50		16.75
			108	5540	18.00		18.00	17.50		16.75
			112	5560	18.00		18.00	17.50		16.75
			116	5580	18.00		18.00	17.50		16.75
			120	5600	18.00		18.00	17.50		16.75
			124	5620	18.00		18.00	17.50		16.75
			128	5640	18.00		18.00	17.50		16.75
			136	5680	18.00		18.00	17.50		16.75
			140	5700	14.50		14.50	14.50		14.50
			144	5720	18.00		18.00	17.50		16.75
		2 Tx VHT20 TXBF	100	5500		16.00	16.00		15.50	16.00
			104	5520		18.00	18.00		15.50	16.75
			108	5540		18.00	18.00		15.50	16.75
			112	5560		18.00	18.00		15.50	16.75
			116	5580		18.00	18.00		15.50	16.75
			120	5600		18.00	18.00		15.50	16.75
			124	5620		18.00	18.00		15.50	16.75
			128	5640		18.00	18.00		15.50	16.75
			136	5680		18.00	18.00		15.50	16.75
			140	5700		14.50	14.50		14.50	14.50
			144	5720		18.00	18.00		15.50	16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11ac	2 Tx VHT20 TXBF	100	5500	17.50		17.50	17.50		16.75
			104	5520	18.00		18.00	17.50		16.75
			108	5540	18.00		18.00	17.50		16.75
			112	5560	18.00		18.00	17.50		16.75
			116	5580	18.00		18.00	17.50		16.75
			120	5600	18.00		18.00	17.50		16.75
			124	5620	18.00		18.00	17.50		16.75
			128	5640	18.00		18.00	17.50		16.75
			136	5680	18.00		18.00	17.50		16.75
			140	5700	15.50		15.50	15.50		15.50
			144	5720	18.00		18.00	17.50		16.75
			100	5500		17.50	17.50		15.50	16.75
			104	5520		18.00	18.00		15.50	16.75
			108	5540		18.00	18.00		15.50	16.75
			112	5560		18.00	18.00		15.50	16.75
			116	5580		18.00	18.00		15.50	16.75
			120	5600		18.00	18.00		15.50	16.75
			124	5620		18.00	18.00		15.50	16.75
			128	5640		18.00	18.00		15.50	16.75
			136	5680		18.00	18.00		15.50	16.75
		3 Tx VHT20 CDD	140	5700		15.50	15.50		15.50	15.50
			144	5720		18.00	18.00		15.50	16.75
			100	5500	15.50	15.50	15.50	15.50	15.50	15.50
			104	5520	15.50	15.50	15.50	15.50	15.50	15.50
			108	5540	15.50	15.50	15.50	15.50	15.50	15.50
			112	5560	15.50	15.50	15.50	15.50	15.50	15.50
		3 Tx VHT20 STBC/SDM	116	5580	15.50	15.50	15.50	15.50	15.50	15.50
			120	5600	15.50	15.50	15.50	15.50	15.50	15.50
			124	5620	15.50	15.50	15.50	15.50	15.50	15.50
			128	5640	15.50	15.50	15.50	15.50	15.50	15.50
			136	5680	15.50	15.50	15.50	15.50	15.50	15.50
			140	5700	14.50	14.50	14.50	14.50	14.50	14.50
			144	5720	15.50	15.50	15.50	15.50	15.50	15.50
			100	5500	16.00	16.00	16.00	16.00	15.50	16.00
			104	5520	18.00	18.00	18.00	17.50	15.50	16.75
			108	5540	18.00	18.00	18.00	17.50	15.50	16.75
			112	5560	18.00	18.00	18.00	17.50	15.50	16.75
			116	5580	18.00	18.00	18.00	17.50	15.50	16.75
			120	5600	18.00	18.00	18.00	17.50	15.50	16.75
			124	5620	18.00	18.00	18.00	17.50	15.50	16.75
			128	5640	18.00	18.00	18.00	17.50	15.50	16.75
			136	5680	18.00	18.00	18.00	17.50	15.50	16.75
			140	5700	14.50	14.50	14.50	14.50	14.50	14.50
			144	5720	18.00	18.00	18.00	17.50	15.50	16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11ac	3 Tx VHT20 TXBF	100	5500	15.50	15.50	15.50	15.50	15.50	15.50
			104	5520	15.50	15.50	15.50	15.50	15.50	15.50
			108	5540	15.50	15.50	15.50	15.50	15.50	15.50
			112	5560	15.50	15.50	15.50	15.50	15.50	15.50
			116	5580	15.50	15.50	15.50	15.50	15.50	15.50
			120	5600	15.50	15.50	15.50	15.50	15.50	15.50
			124	5620	15.50	15.50	15.50	15.50	15.50	15.50
			128	5640	15.50	15.50	15.50	15.50	15.50	15.50
			136	5680	15.50	15.50	15.50	15.50	15.50	15.50
			140	5700	15.50	15.50	15.50	15.50	15.50	15.50
			144	5720	15.50	15.50	15.50	15.50	15.50	15.50
		2 Tx VHT40 CDD	102	5510	12.00	12.00		12.00	12.00	
			110	5550	19.00	19.00		17.50	15.50	
			118	5590	19.00	19.00		17.50	15.50	
			126	5630	19.00	19.00		17.50	15.50	
			134	5670	16.50	16.50		16.50	15.50	
			142	5710	18.00	18.00		17.50	15.50	
			102	5510	12.00		12.00	12.00		12.00
			110	5550	19.00		19.00	17.50		16.75
			118	5590	19.00		19.00	17.50		16.75
			126	5630	19.00		19.00	17.50		16.75
			134	5670	16.50		16.50	16.50		16.50
			142	5710	18.00		18.00	17.50		16.75
		2 Tx VHT40 STBC/SDM	102	5510	12.00	12.00		12.00	12.00	
			110	5550	19.00	19.00		17.50	15.50	
			118	5590	19.00	19.00		17.50	15.50	
			126	5630	19.00	19.00		17.50	15.50	
			134	5670	16.50	16.50		16.50	15.50	
			142	5710	18.00	18.00		17.50	15.50	
			102	5510	12.00		12.00	12.00		12.00
			110	5550	19.00		19.00	17.50		16.75
			118	5590	19.00		19.00	17.50		16.75
			126	5630	19.00		19.00	17.50		16.75
			134	5670	16.50		16.50	16.50		16.50
			142	5710	18.00		18.00	17.50		16.75
			102	5510		12.00	12.00		12.00	12.00
			110	5550		19.00	19.00		15.50	16.75
			118	5590		19.00	19.00		15.50	16.75
			126	5630		19.00	19.00		15.50	16.75
			134	5670		16.50	16.50		15.50	16.50
			142	5710		18.00	18.00		15.50	16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11ac	2 Tx VHT40 TXBF	102	5510	11.00	11.00		11.00	11.00	
			110	5550	17.50	17.50		17.50	15.50	
			118	5590	17.50	17.50		17.50	15.50	
			126	5630	17.50	17.50		17.50	15.50	
			134	5670	16.00	16.00		16.00	15.50	
			142	5710	17.50	17.50		17.50	15.50	
			102	5510	11.00		11.00	11.00		11.00
			110	5550	17.50		17.50	17.50		16.75
			118	5590	17.50		17.50	17.50		16.75
			126	5630	17.50		17.50	17.50		16.75
			134	5670	16.00		16.00	16.00		16.00
			142	5710	17.50		17.50	17.50		16.75
			102	5510		11.00	11.00		11.00	11.00
			110	5550		17.50	17.50		15.50	16.75
			118	5590		17.50	17.50		15.50	16.75
			126	5630		17.50	17.50		15.50	16.75
			134	5670		16.00	16.00		15.50	16.00
			142	5710		17.50	17.50		15.50	16.75
		3 TX VHT40 CDD	102	5510	12.00	12.00	12.00	12.00	12.00	12.00
			110	5550	19.00	19.00	19.00	17.50	15.50	16.75
			118	5590	19.00	19.00	19.00	17.50	15.50	16.75
			126	5630	19.00	19.00	19.00	17.50	15.50	16.75
			134	5670	16.50	16.50	16.50	16.50	15.50	16.50
		3 Tx VHT40 STBC/SDM	102	5510	12.00	12.00	12.00	12.00	12.00	12.00
			110	5550	19.00	19.00	19.00	17.50	15.50	16.75
			118	5590	19.00	19.00	19.00	17.50	15.50	16.75
			126	5630	19.00	19.00	19.00	17.50	15.50	16.75
			134	5670	16.50	16.50	16.50	16.50	15.50	16.50
		3 Tx VHT40 TXBF	142	5710	16.25	16.25	16.25	16.25	15.50	16.25
			102	5510	11.00	11.00	11.00	11.00	11.00	11.00
			110	5550	14.75	14.75	14.75	14.75	14.75	14.75
			118	5590	14.75	14.75	14.75	14.75	14.75	14.75
			126	5630	14.75	14.75	14.75	14.75	14.75	14.75
		2 Tx VHT80 CDD	134	5670	14.75	14.75	14.75	14.75	14.75	14.75
			142	5710	15.00	15.00	15.00	15.00	15.00	15.00
			106	5530	12.50	12.50		12.50	12.50	
			122	5610	18.00	18.00		17.50	15.50	
			138	5690	18.00	18.00		17.50	15.50	
			106	5530	12.50		12.50	12.50		12.50
			122	5610	18.00		18.00	17.50		16.75
			138	5690	18.00		18.00	17.50		16.75
			106	5530		12.50	12.50		12.50	12.50
			122	5610		18.00	18.00		15.50	16.75
			138	5690		18.00	18.00		15.50	16.75

Wi-Fi 5.5 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.5 (OFDM) U-NII-2C	802.11ac	2 Tx VHT80 STBC/SDM	106	5530	12.50	12.50		12.50	12.50	
			122	5610	18.00	18.00		17.50	15.50	
			138	5690	18.00	18.00		17.50	15.50	
			106	5530	12.50		12.50	12.50		12.50
			122	5610	18.00		18.00	17.50		16.75
			138	5690	18.00		18.00	17.50		16.75
			106	5530		12.50	12.50		12.50	12.50
			122	5610		18.00	18.00		15.50	16.75
			138	5690		18.00	18.00		15.50	16.75
		2 Tx VHT80 TXBF	106	5530	11.00	11.00		11.00	11.00	
			122	5610	16.00	16.00		16.00	15.50	
			138	5690	17.50	17.50		17.50	15.50	
			106	5530	11.00		11.00	11.00		11.00
			122	5610	16.00		16.00	16.00		16.00
			138	5690	17.50		17.50	17.50		16.75
			106	5530		11.00	11.00		11.00	11.00
			122	5610		16.00	16.00		15.50	16.00
			138	5690		17.50	17.50		15.50	16.75
		3 Tx VHT80 CDD	106	5530	12.50	12.50	12.50	12.50	12.50	12.50
			122	5610	18.00	18.00	18.00	17.50	15.50	16.75
			138	5690	18.00	18.00	18.00	17.50	15.50	16.75
		3 Tx VHT80 STBC/SDM	106	5530	12.50	12.50	12.50	12.50	12.50	12.50
			122	5610	18.00	18.00	18.00	17.50	15.50	16.75
			138	5690	18.00	18.00	18.00	17.50	15.50	16.75
		3 Tx VHT80 TXBF	106	5530	11.00	11.00	11.00	11.00	11.00	11.00
			122	5610	14.75	14.75	14.75	14.75	14.75	14.75
			138	5690	18.00	18.00	18.00	17.50	15.50	16.75

Note(s):

1) The "Original Approval" power levels were based upon FCC modular approval testing of the BCM943602CS radio. These power levels were approved up to maximum regulatory levels to cover a number of different potential applications.

The original maximum regulatory power levels may be reduced further by the driver for one of the following two reasons:

- a) For performance (i.e. non-regulatory) reasons to ensure that PER and EVM of the radio meet internal specifications.
- b) For application specifics. In this case the power is reduced to meet the specific SAR requirement per transmit chain over frequency band/channel. SAR specifics are addressed in a Class II permissive change as applicable.

2) The 11n 2Tx,3Tx HT20/HT40 "All" modes detailed apply to all of the CDD/STBC/SDM non-transmit beamforming modes.

Wi-Fi 5.8 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.8 (OFDM) U-NII-3	802.11a	1 Tx	149	5745	16.00			16.00		
			153	5765	21.50			18.50		
			157	5785	21.50			18.50		
			161	5805	21.50			18.50		
			165	5825	20.50			18.50		
			149	5745		16.00			16.00	
			153	5765		21.50			16.50	
			157	5785		21.50			16.50	
			161	5805		21.50			16.50	
			165	5825		20.50			16.50	
			149	5745			16.00			16.00
			153	5765			21.50			18.50
			157	5785			21.50			18.50
			161	5805			21.50			18.50
			165	5825			20.50			18.50
		2 Tx CDD	149	5745	17.50	17.50		17.50	16.50	
			153	5765	21.00	21.00		18.50	16.50	
			157	5785	21.00	21.00		18.50	16.50	
			161	5805	21.00	21.00		18.50	16.50	
			165	5825	17.50	17.50		17.50	16.50	
			149	5745	17.50		17.50	17.50		17.50
			153	5765	21.00		21.00	18.50		18.50
			157	5785	21.00		21.00	18.50		18.50
			161	5805	21.00		21.00	18.50		18.50
			165	5825	17.50		17.50	17.50		17.50
			149	5745		17.50	17.50		16.50	17.50
			153	5765		21.00	21.00		16.50	18.50
			157	5785		21.00	21.00		16.50	18.50
			161	5805		21.00	21.00		16.50	18.50
			165	5825		17.50	17.50		16.50	17.50
		2 Tx TXBF	149	5745	16.50	16.50		16.50	16.50	
			153	5765	21.00	21.00		18.50	16.50	
			157	5785	21.00	21.00		18.50	16.50	
			161	5805	21.00	21.00		18.50	16.50	
			165	5825	18.00	18.00		18.00	16.50	
			149	5745	16.50		16.50	16.50		16.50
			153	5765	21.00		21.00	18.50		18.50
			157	5785	21.00		21.00	18.50		18.50
			161	5805	21.00		21.00	18.50		18.50
			165	5825	18.00		18.00	18.00		18.00

Wi-Fi 5.8 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.8 (OFDM) U-NII-3	802.11a	2 TXBF	149	5745		16.50	16.50		16.50	16.50
			153	5765		21.00	21.00		16.50	18.50
			157	5785		21.00	21.00		16.50	18.50
			161	5805		21.00	21.00		16.50	18.50
			165	5825		18.00	18.00		16.50	18.00
		3 Tx CDD	149	5745	18.00	18.00	18.00	18.00	16.50	18.00
			153	5765	21.00	21.00	21.00	18.50	16.50	18.50
			157	5785	21.00	21.00	21.00	18.50	16.50	18.50
			161	5805	21.00	21.00	21.00	18.50	16.50	18.50
			165	5825	18.00	18.00	18.00	18.00	16.50	18.00
	802.11n	1 Tx SISO HT20	149	5745	16.00			16.00		
			153	5765	21.50			18.50		
			157	5785	21.50			18.50		
			161	5805	21.50			18.50		
			165	5825	20.50			18.50		
			149	5745		16.00			16.00	
			153	5765		21.50			16.50	
			157	5785		21.50			16.50	
			161	5805		21.50			16.50	
			165	5825		20.50			16.50	
		2 Tx HT20 CDD/STBC/SDM	149	5745			16.00			16.00
			153	5765			21.50			18.50
			157	5785			21.50			18.50
			161	5805			21.50			18.50
			165	5825			20.50			18.50
			149	5745	17.50	17.50		17.50	16.50	
			157	5785	21.00	21.00		18.50	16.50	
			165	5825	17.50	17.50		17.50	16.50	
		2 Tx HT20 TXBF	149	5745	17.50		17.50	17.50		17.50
			157	5785	21.00		21.00	18.50		18.50
			165	5825	17.50		17.50	17.50		17.50
			149	5745		17.50	17.50		16.50	17.50
			157	5785		21.00	21.00		16.50	18.50
			165	5825		17.50	17.50		16.50	17.50
			149	5745	16.50	16.50		16.50	16.50	
			157	5785	21.00	21.00		18.50	16.50	
			165	5825	18.00	18.00		18.00	16.50	
		2 Tx HT20 TXBF	149	5745	16.50		16.50	16.50		16.50
			157	5785	21.00		21.00	18.50		18.50
			165	5825	18.00		18.00	18.00		18.00
			149	5745		16.50	16.50		16.50	16.50
			157	5785		21.00	21.00		16.50	18.50
			165	5825		18.00	18.00		16.50	18.00

Wi-Fi 5.8 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.8 (OFDM) U-NII-3	802.11n	3 Tx HT20 CDD/	149	5745	14.50	14.50	14.50	14.50	14.50	14.50
			157	5785	21.00	21.00	21.00	18.50	16.50	18.50
			165	5825	17.50	17.50	17.50	17.50	16.50	17.50
		3 Tx HT20 STBC/SDM	149	5745	14.50	14.50	14.50	14.50	14.50	14.50
			157	5785	21.00	21.00	21.00	18.50	16.50	18.50
			165	5825	17.50	17.50	17.50	17.50	16.50	17.50
		3 Tx HT20 TXBF	149	5745	14.50	14.50	14.50	14.50	14.50	14.50
			157	5785	18.00	18.00	18.00	18.00	16.50	18.00
			165	5825	18.00	18.00	18.00	18.00	16.50	18.00
		1 Tx HT40 SISO	151	5755	14.50			14.50		
			159	5795	18.00			18.00		
			151	5755		14.50			14.50	
			159	5795		18.00			16.50	
			151	5755			14.50			14.50
			159	5795			18.00			18.00
		2 Tx HT40 CDD	151	5755	15.00	15.00		15.00	15.00	
			159	5795	17.50	17.50		17.50	16.50	
			151	5755	15.00		15.00	15.00		15.00
			159	5795	17.50		17.50	17.50		17.50
			151	5755		15.00	15.00		15.00	15.00
			159	5795		17.50	17.50		16.50	17.50
		2 Tx HT40 TXBF	151	5755	15.50	15.50		15.50	15.50	
			159	5795	18.00	18.00		18.00	16.50	
			151	5755	15.50		15.50	15.50		15.50
			159	5795	18.00		18.00	18.00		18.00
			151	5755		15.50	15.50		15.50	15.50
			159	5795		18.00	18.00		16.50	18.00
		3 Tx HT40 CDD	151	5755	12.50	12.50	12.50	12.50	12.50	12.50
			159	5795	17.50	17.50	17.50	17.50	16.50	17.50
		3 Tx HT40 STBC/SDM	151	5755	12.50	12.50	12.50	12.50	12.50	12.50
			159	5795	17.50	17.50	17.50	17.50	16.50	17.50
		3 Tx HT40 TXBF	151	5755	15.00	15.00	15.00	15.00	15.00	15.00
			159	5795	18.00	18.00	18.00	18.00	16.50	18.00
	802.11ac	1 Tx VHT20 SISO	149	5745	16.00			16.00		
			157	5785	21.50			18.50		
			165	5825	20.50			18.50		
			149	5745		16.00			16.00	
			157	5785		21.50			16.50	
			165	5825		20.50			16.50	
			149	5745			16.00			16.00
			157	5785			21.50			18.50
			165	5825			20.50			18.50

Wi-Fi 5.8 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.8 (OFDM) U-NII-3	802.11ac	1 Tx VHT40 SISO	151	5755	14.50			14.50		
			159	5795	18.00			17.50		
			151	5755		14.50			14.50	
			159	5795		18.00			16.50	
			151	5755			14.50			14.50
			159	5795			18.00			17.50
		1 Tx VHT80 SISO	155	5775	14.75			14.75		
			155	5775		14.75			14.75	
			155	5775			14.75			14.75
		2 Tx VHT20 CDD/STBC/SDM	149	5745	17.50	17.50		17.50	16.50	
			157	5785	21.00	21.00		18.50	16.50	
			165	5825	17.50	17.50		17.50	16.50	
			149	5745	17.50		17.50	17.50		17.50
			157	5785	21.00		21.00	18.50		18.50
			165	5825	17.50		17.50	17.50		17.50
			149	5745		17.50	17.50		16.50	17.50
			157	5785		21.00	21.00		16.50	18.50
			165	5825		17.50	17.50		16.50	17.50
		2 Tx VHT20 TXBF	149	5745	16.50	16.50		16.50	16.50	
			157	5785	21.00	21.00		18.50	16.50	
			165	5825	18.00	18.00		17.50	16.50	
			149	5745	16.50		16.50	16.50		16.50
			157	5785	21.00		21.00	18.50		18.50
			165	5825	18.00		18.00	17.50		17.50
			149	5745		16.50	16.50		16.50	16.50
			157	5785		21.00	21.00		16.50	18.50
			165	5825		18.00	18.00		16.50	17.50
		3 Tx VHT20 CDD	149	5745	14.50	14.50	14.50	14.50	14.50	14.50
			157	5785	21.00	21.00	21.00	18.50	16.50	18.50
			165	5825	17.50	17.50	17.50	17.50	16.50	17.50
		3 Tx VHT20 STBC/SDM	149	5745	14.50	14.50	14.50	14.50	14.50	14.50
			157	5785	21.00	21.00	21.00	18.50	16.50	18.50
			165	5825	17.50	17.50	17.50	17.50	16.50	17.50
		3 Tx VHT20 TXBF	149	5745	16.50	16.50	16.50	16.50	16.50	16.50
			157	5785	21.00	21.00	21.00	18.50	16.50	18.50
			165	5825	18.00	18.00	18.00	17.50	16.50	17.50

Wi-Fi 5.8 GHz Band

Band (GHz)	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)			Maximum Target power setting from C2PC/A1398 Host (dBm)		
					Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2
5.8 (OFDM) U-NII-3	802.11ac	2 Tx VHT40 CDD/STBC/SDM	151	5755	15.00	15.00		15.00	15.00	
			159	5795	17.50	17.50		17.50	16.50	
			151	5755	15.00		15.00	15.00		15.00
			159	5795	17.50		17.50	17.50		17.50
			151	5755		15.00	15.00		15.00	15.00
			159	5795		17.50	17.50		16.50	17.50
		2 Tx VHT40 TXBF	151	5755	15.50	15.50		15.50	15.50	
			159	5795	18.00	18.00		17.50	16.50	
			151	5755	15.50		15.50	15.50		15.50
			159	5795	18.00		18.00	17.50		17.50
			151	5755		15.50	15.50		15.50	15.50
			159	5795		18.00	18.00		16.50	18.00
		3 Tx VHT40 CDD	151	5755	12.50	12.50	12.50	12.50	12.50	12.50
			159	5795	17.50	17.50	17.50	17.50	16.50	17.50
		3 Tx VHT40 STBC/SDM	151	5755	12.50	12.50	12.50	12.50	12.50	12.50
			159	5795	17.50	17.50	17.50	17.50	16.50	17.50
		3 Tx VHT40 TXBF	151	5755	15.00	15.00	15.00	15.00	15.00	15.00
			159	5795	18.00	18.00	18.00	17.50	16.50	17.50
		2Tx VHT80 CDD/STBC/SDM	155	5775	14.50	14.50		14.50	14.50	
			155	5775	14.50		14.50	14.50		14.50
			155	5775		14.50	14.50		14.50	14.50
		2 Tx VHT80 TXBF	155	5775	14.75	14.75		14.75	14.75	
			155	5775	14.75		14.75	14.75		14.75
			155	5775		14.75	14.75		14.75	14.75
		3 Tx VHT80 CDD	155	5775	13.00	13.00	13.00	13.00	13.00	13.00
		3 Tx VHT80 STBC/SDM	155	5775	13.00	13.00	13.00	13.00	13.00	13.00

Note(s):

1) The "Original Approval" power levels were based upon FCC modular approval testing of the BCM943602CS radio. These power levels were approved up to maximum regulatory levels to cover a number of different potential applications.

The original maximum regulatory power levels may be reduced further by the driver for one of the following two reasons:

a) For performance (i.e. non-regulatory) reasons to ensure that PER and EVM of the radio meet internal specifications.

b) For application specifics. In this case the power is reduced to meet the specific SAR requirement per transmit chain over frequency band/channel. SAR specifics are addressed in a Class II permissive change as applicable.

2) The 11n 2Tx,3Tx HT20/HT40 "All" modes detailed apply to all of the CDD/STBC/SDM non-transmit beamforming modes.

6.5. Bluetooth Maximum Output Power

Band (GHz)	Mode	Ch #	Freq. (MHz)	Maximum Target power setting from Original Approval ¹ (dBm)	Maximum Target power setting from C2PC/ A1398 Host (dBm)
				Wi-Fi 3	Wi-Fi 3
				Chain 2	Chain 2
2.4	V1.8+ EDR, GFSK	0	2402	9.0	9.0
		39	2441	9.0	9.0
		78	2480	9.0	9.0
	V1.8 + EDR, QPSK	0	2402	5.5	5.5
		39	2441	5.5	5.5
		78	2480	5.5	5.5
	V1.8 BLE, 8-DPSK	0	2402	2.5	2.5
		19	2440	2.5	2.5
		39	2480	2.5	2.5

6.6. Antenna Dimensions and Separation Distances

Refer to separate filing document.

7. RF Exposure Conditions (Test Configurations)

Wireless technologies	RF Exposure Conditions	DUT-to-User Separation	Test Position	Antenna-to-edge/surface	SAR Required	Note
WLAN	Laptop	5.99 mm	Rear	N/A	Yes	

8. RF Output Power Measurement

8.1. Wi-Fi (2.4 GHz Band)

Output Power Measurement Considerations for Wi-Fi 2.4 GHz band

1. 2.4 GHz 802.11b DSSS:
 - Output power measurement is not required:
 - o When SAR Test Exclusion according to KDB 447498 D01 applies.
 - o When other power measurement reduction applies.
 - Otherwise, output power measurement is required on:
 - o Channels 1, 6, and 11, when the output power specified for other channels is no higher than the abovementioned channels.
 - o The closest adjacent channels to the aforementioned channels, when the output power specified for these adjacent channels is higher.
 - For ease of identification, 802.11b DSSS is identified as the Initial Test Configuration for the 2.4 GHz band.
2. 2.4 GHz 802.11g/n OFDM
 - Output power measurement is not required:
 - o When SAR Test Exclusion according to KDB 447498 D01 applies.
 - o When SAR Test Exclusion procedures for 2.4 GHz 802.11g/n OFDM applies, according to the SAR measurement results from 802.11b DSSS; see Section 11 of the report for details.
 - Otherwise, output power measurement is required for 2.4 GHz 802.11g/n OFDM, with the following considerations:
 - o If 40 MHz bandwidth configurations are supported, measure power for either Channel 6 or the highest specified output power channel.
 - o Output power measurement requirements for smaller bandwidth configurations are dependent on the SAR measurement results from the 40 MHz bandwidth configurations.
 - o If no 40 MHz bandwidth configurations are supported, then a channel selection process similar to 802.11b DSSS is applied.
 - The output power measurement is required for 2.4 GHz 802.11g/n OFDM as a result of 802.11b DSSS reported SAR results, the required test configurations in 2.4 GHz 802.11g/n OFDM are identified as Subsequent Test Configurations with respect to the Initial Test Configuration status assigned to 802.11b DSSS.
 - If, for a particular antenna or transmit diversity condition supported by the device, no 802.11b DSSS configurations are available, output power should also be measured as a default for 802.11g/n OFDM when SAR Test Exclusion according to KDB 447498 D01 does not apply; these 802.11g/n OFDM configurations are considered the Initial Test Configurations for the respective antenna/transmit diversity condition.

SAR Testing Determination as noted KDB 248227

1. Yes SAR Testing is required
2. No SAR Testing is not required

WiFi 2.4 GHz Bands Measured Results

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11b (DSSS)	1 Tx	1	2412	17.50			17.50			Yes
		2	2417	17.50			17.50			
		6	2437	17.50			17.50			
		10	2457	17.50			17.50			
		11	2462	17.50			17.50			
		12	2467	17.50			17.50			
		13	2472	15.00			15.00			
		1	2412		16.00			16.00		
		2	2417		16.00			16.00		
		6	2437		16.00			16.00		
		10	2457		16.00			16.00		
		11	2462		16.00			16.00		
		12	2467		16.00			16.00		
		13	2472		15.00			15.00		
		1	2412			17.25			17.25	
		2	2417			17.25			17.25	
		6	2437			17.25			17.25	
		10	2457			17.25			17.25	
		11	2462			17.25			17.25	
		12	2467			17.25			17.25	
		13	2472			15.00			15.00	
	2 Tx CDD	1	2412	17.50	16.00		17.50	16.00		Yes
		2	2417	17.50	16.00		17.50	16.00		
		3	2422	17.50	16.00		17.50	16.00		
		6	2437	17.50	16.00		17.50	16.00		
		9	2452	17.50	16.00		17.50	16.00		
		10	2457	17.50	16.00		17.50	16.00		
		11	2462	17.50	16.00		17.50	16.00		
		12	2467	17.50	16.00		17.50	16.00		
		13	2472	15.00	15.00		15.00	15.00		
		1	2412	17.50		17.25	17.50		17.25	Yes
		2	2417	17.50		17.25	17.50		17.25	
		3	2422	17.50		17.25	17.50		17.25	
		6	2437	17.50		17.25	17.50		17.25	
		9	2452	17.50		17.25	17.50		17.25	
		10	2457	17.50		17.25	17.50		17.25	
		11	2462	17.50		17.25	17.50		17.25	
		12	2467	17.50		17.25	17.50		17.25	
		13	2472	15.00		15.00	15.00		15.00	

Wi-Fi 2.4 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11b Legacy (DSSS)	2 Tx CDD	1	2412		16.00	17.25		16.00	17.25	Yes
		2	2417		16.00	17.25		16.00	17.25	
		3	2422		16.00	17.25		16.00	17.25	
		6	2437		16.00	17.25		16.00	17.25	
		9	2452		16.00	17.25		16.00	17.25	
		10	2457		16.00	17.25		16.00	17.25	
		11	2462		16.00	17.25		16.00	17.25	
		12	2467		16.00	17.25		16.00	17.25	
		13	2472		15.00	15.00		15.00	15.00	
	3 Tx CDD	1	2412	17.50	16.00	17.25	17.50	16.00	17.25	Yes
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	17.50	16.00	17.25	17.50	16.00	17.25	
		6	2437	17.50	16.00	17.25	17.50	16.00	17.25	
		9	2452	17.50	16.00	17.25	17.50	16.00	17.25	
		10	2457	17.50	16.00	17.25	17.50	16.00	17.25	
		11	2462	17.50	16.00	17.25	17.50	16.00	17.25	
		12	2467	17.50	16.00	17.25	17.50	16.00	17.25	
		13	2472	15.00	15.00	15.00	15.00	15.00	15.00	
2.4 802.11g (OFDM)	1 Tx	1	2412	17.50			17.50			No
		2	2417	17.50			17.50			
		6	2437	17.50			17.50			
		10	2457	17.50			17.50			
		11	2462	16.00			16.00			
		12	2467	13.00			13.00			
		13	2472	9.00			9.00			
		1	2412		16.00			16.00		
		2	2417		16.00			16.00		
		6	2437		16.00			16.00		
		10	2457		16.00			16.00		
		11	2462		16.00			16.00		
		12	2467		13.00			13.00		
		13	2472		9.00			9.00		
		1	2412			17.25			17.25	
		2	2417			17.25			17.25	
		6	2437			17.25			17.25	
		10	2457			17.25			17.25	
		11	2462			16.00			16.00	
		12	2467			13.00			13.00	
		13	2472			9.00			9.00	

Wi-Fi 2.4 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11g (OFDM)	2 Tx CDD	1	2412	14.50	14.50		14.50	14.50		No
		2	2417	17.50	16.00		17.50	16.00		
		3	2422	17.50	16.00		17.50	16.00		
		6	2437	17.50	16.00		17.50	16.00		
		9	2452	17.50	16.00		17.50	16.00		
		10	2457	17.50	16.00		17.50	16.00		
		11	2462	13.50	13.50		13.50	13.50		
		12	2467	11.25	11.25		11.25	11.25		
		13	2472	7.50	7.50		7.50	7.50		
		1	2412	14.50		14.50	14.50		14.50	No
		2	2417	17.50		17.25	17.50		17.25	
		3	2422	17.50		17.25	17.50		17.25	
		6	2437	17.50		17.25	17.50		17.25	
		9	2452	17.50		17.25	17.50		17.25	
		10	2457	17.50		17.25	17.50		17.25	
		11	2462	13.50		13.50	13.50		13.50	
		12	2467	11.25		11.25	11.25		11.25	
		13	2472	7.50		7.50	7.50		7.50	
		1	2412		14.50	14.50		14.50	14.50	No
		2	2417		16.00	17.25		16.00	17.25	
		3	2422		16.00	17.25		16.00	17.25	
		6	2437		16.00	17.25		16.00	17.25	
		9	2452		16.00	17.25		16.00	17.25	
		10	2457		16.00	17.25		16.00	17.25	
		11	2462		13.50	13.50		13.50	13.50	
		12	2467		11.25	11.25		11.25	11.25	
		13	2472		7.50	7.50		7.50	7.50	
2.4 802.11g (OFDM)	2 Tx TXBF	1	2412	17.00	16.00		17.00	16.00		No
		2	2417	17.50	16.00		17.50	16.00		
		3	2422	17.50	16.00		17.50	16.00		
		6	2437	17.50	16.00		17.50	16.00		
		9	2452	17.50	16.00		17.50	16.00		
		10	2457	17.50	16.00		17.50	16.00		
		11	2462	15.00	15.00		15.00	15.00		
		12	2467	14.00	14.00		14.00	14.00		
		13	2472	9.50	9.50		9.50	9.50		

Wi-Fi 2.4 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11g (OFDM)	2 Tx TXBF	1	2412	17.00		17.00	17.00		17.00	No
		2	2417	17.50		17.25	17.50		17.25	
		3	2422	17.50		17.25	17.50		17.25	
		6	2437	17.50		17.25	17.50		17.25	
		9	2452	17.50		17.25	17.50		17.25	
		10	2457	17.50		17.25	17.50		17.25	
		11	2462	15.00		15.00	15.00		15.00	
		12	2467	14.00		14.00	14.00		14.00	
		13	2472	9.50		9.50	9.50		9.50	
		1	2412		16.00	17.00		16.00	17.00	No
		2	2417		16.00	17.25		16.00	17.25	
		3	2422		16.00	17.25		16.00	17.25	
		6	2437		16.00	17.25		16.00	17.25	
		9	2452		16.00	17.25		16.00	17.25	
		10	2457		16.00	17.25		16.00	17.25	
		11	2462		15.00	15.00		15.00	15.00	
		12	2467		14.00	14.00		14.00	14.00	
		13	2472		9.50	9.50		9.50	9.50	
	3 Tx CDD	1	2412	14.50	14.50	14.50	14.50	14.50	14.50	No
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	17.50	16.00	17.25	17.50	16.00	17.25	
		6	2437	17.50	16.00	17.25	17.50	16.00	17.25	
		9	2452	13.50	13.50	13.50	17.50	16.00	17.25	
		10	2457	11.25	11.25	11.25	17.50	16.00	17.25	
		11	2462	7.50	7.50	7.50	13.50	13.50	13.50	
		12	2467	17.00	16.00	17.00	11.25	11.25	11.25	
		13	2472	17.50	16.00	17.25	7.50	7.50	7.50	
	3 Tx TXBF	1	2412	17.50	16.00	17.25	17.00	16.00	17.00	No
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	15.00	15.00	15.00	17.50	16.00	17.25	
		6	2437	14.00	14.00	14.00	17.50	16.00	17.25	
		9	2452	9.50	9.50	9.50	17.50	16.00	17.25	
		10	2457	17.50	16.00	17.25	17.50	16.00	17.25	
		11	2462	15.00	15.00	15.00	15.00	15.00	15.00	
		12	2467	14.00	14.00	14.00	14.00	14.00	14.00	
		13	2472	9.50	9.50	9.50	9.50	9.50	9.50	

Wi-Fi 2.4 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11n (OFDM)	1 Tx	1	2412	17.50			17.50			No
		2	2417	17.50			17.50			
		6	2437	17.50			17.50			
		10	2457	17.50			17.50			
		11	2462	16.00			16.00			
		12	2467	13.00			13.00			
		13	2472	9.00			9.00			
		1	2412		16.00			16.00		
		2	2417		16.00			16.00		
		6	2437		16.00			16.00		
		10	2457		16.00			16.00		
		11	2462		16.00			16.00		
		12	2467		13.00			13.00		
		13	2472		9.00			9.00		
		1	2412			17.25			17.25	No
		2	2417			17.25			17.25	
		6	2437			17.25			17.25	
		10	2457			17.25			17.25	
		11	2462			16.00			16.00	
		12	2467			13.00			13.00	
		13	2472			9.00			9.00	
	2 Tx CDD	1	2412	14.50	14.50		14.50	14.50		No
		2	2417	17.50	16.00		17.50	16.00		
		3	2422	17.50	16.00		17.50	16.00		
		6	2437	17.50	16.00		17.50	16.00		
		9	2452	17.50	16.00		17.50	16.00		
		10	2457	17.50	16.00		17.50	16.00		
		11	2462	13.50	13.50		13.50	13.50		
		12	2467	11.25	11.25		11.25	11.25		
		13	2472	7.50	7.50		7.50	7.50		
		1	2412	14.50		14.50	14.50		14.50	No
		2	2417	17.50		17.25	17.50		17.25	
		3	2422	17.50		17.25	17.50		17.25	
		6	2437	17.50		17.25	17.50		17.25	
		9	2452	17.50		17.25	17.50		17.25	
		10	2457	17.50		17.25	17.50		17.25	
		11	2462	13.50		13.50	13.50		13.50	
		12	2467	11.25		11.25	11.25		11.25	
		13	2472	7.50		7.50	7.50		7.50	
		1	2412		14.50	14.50		14.50	14.50	No
		2	2417		16.00	17.25		16.00	17.25	
		3	2422		16.00	17.25		16.00	17.25	
		6	2437		16.00	17.25		16.00	17.25	
		9	2452		16.00	17.25		16.00	17.25	
		10	2457		16.00	17.25		16.00	17.25	
		11	2462		13.50	13.50		13.50	13.50	
		12	2467		11.25	11.25		11.25	11.25	
		13	2472		7.50	7.50		7.50	7.50	

Wi-Fi 2.4 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11n (OFDM)	2 Tx TXBF	1	2412	17.00	16.00		17.00	16.00		No
		2	2417	17.50	16.00		17.50	16.00		
		3	2422	17.50	16.00		17.50	16.00		
		6	2437	17.50	16.00		17.50	16.00		
		9	2452	17.50	16.00		17.50	16.00		
		10	2457	17.50	16.00		17.50	16.00		
		11	2462	15.00	15.00		15.00	15.00		
		12	2467	14.00	14.00		14.00	14.00		
		13	2472	9.50	9.50		9.50	9.50		
		1	2412	17.00		17.00	17.00		17.00	No
		2	2417	17.50		17.25	17.50		17.25	
		3	2422	17.50		17.25	17.50		17.25	
		6	2437	17.50		17.25	17.50		17.25	
		9	2452	17.50		17.25	17.50		17.25	
		10	2457	17.50		17.25	17.50		17.25	
		11	2462	15.00		15.00	15.00		15.00	
		12	2467	14.00		14.00	14.00		14.00	
		13	2472	9.50		9.50	9.50		9.50	
		1	2412		16.00	17.00		16.00	17.00	No
		2	2417		16.00	17.25		16.00	17.25	
		3	2422		16.00	17.25		16.00	17.25	
		6	2437		16.00	17.25		16.00	17.25	
		9	2452		16.00	17.25		16.00	17.25	
		10	2457		16.00	17.25		16.00	17.25	
		11	2462		15.00	15.00		15.00	15.00	
		12	2467		14.00	14.00		14.00	14.00	
		13	2472		9.50	9.50		9.50	9.50	

Wi-Fi 2.4 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11n (OFDM)	3 Tx CDD	1	2412	14.50	14.50	14.50	14.50	14.50	14.50	No
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	17.50	16.00	17.25	17.50	16.00	17.25	
		6	2437	17.50	16.00	17.25	17.50	16.00	17.25	
		9	2452	17.50	16.00	17.25	17.50	16.00	17.25	
		10	2457	17.50	16.00	17.25	17.50	16.00	17.25	
		11	2462	13.50	13.50	13.50	13.50	13.50	13.50	
		12	2467	11.25	11.25	11.25	11.25	11.25	11.25	
		13	2472	7.50	7.50	7.50	7.50	7.50	7.50	
	3 Tx STBC	1	2412	14.50	14.50	14.50	14.50	14.50	14.50	No
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	17.50	16.00	17.25	17.50	16.00	17.25	
		6	2437	17.50	16.00	17.25	17.50	16.00	17.25	
		9	2452	17.50	16.00	17.25	17.50	16.00	17.25	
		10	2457	17.50	16.00	17.25	17.50	16.00	17.25	
		11	2462	13.50	13.50	13.50	13.50	13.50	13.50	
		12	2467	11.25	11.25	11.25	11.25	11.25	11.25	
		13	2472	7.50	7.50	7.50	7.50	7.50	7.50	
	3 Tx SDM	1	2412	14.50	14.50	14.50	14.50	14.50	14.50	No
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	17.50	16.00	17.25	17.50	16.00	17.25	
		6	2437	17.50	16.00	17.25	17.50	16.00	17.25	
		9	2452	17.50	16.00	17.25	17.50	16.00	17.25	
		10	2457	17.50	16.00	17.25	17.50	16.00	17.25	
		11	2462	13.50	13.50	13.50	13.50	13.50	13.50	
		12	2467	11.25	11.25	11.25	11.25	11.25	11.25	
		13	2472	7.50	7.50	7.50	7.50	7.50	7.50	
	3 Tx TXBF	1	2412	17.00	16.00	17.00	17.00	16.00	17.00	Yes
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	17.50	16.00	17.25	17.50	16.00	17.25	
		6	2437	17.50	16.00	17.25	17.50	16.00	17.25	
		9	2452	17.50	16.00	17.25	17.50	16.00	17.25	
		10	2457	17.50	16.00	17.25	17.50	16.00	17.25	
		11	2462	15.00	15.00	15.00	15.00	15.00	15.00	
		12	2467	14.00	14.00	14.00	14.00	14.00	14.00	
		13	2472	9.50	9.50	9.50	9.50	9.50	9.50	

Wi-Fi 2.4 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11ac (OFDM)	1 Tx VHT20	1	2412	17.50			17.50			No
		2	2417	17.50			17.50			
		6	2437	17.50			17.50			
		10	2457	17.50			17.50			
		11	2462	16.00			16.00			
		12	2467	13.00			13.00			
		13	2472	9.00			9.00			
		1	2412		16.00			16.00		
		2	2417		16.00			16.00		
		6	2437		16.00			16.00		
		10	2457		16.00			16.00		
		11	2462		16.00			16.00		
		12	2467		13.00			13.00		
		13	2472		9.00			9.00		
		1	2412			17.25			17.25	No
		2	2417			17.25			17.25	
		6	2437			17.25			17.25	
		10	2457			17.25			17.25	
		11	2462			16.00			16.00	
		12	2467			13.00			13.00	
		13	2472			9.00			9.00	

Wi-Fi 2.4 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11ac (OFDM)	2 Tx VHT20 CDD	1	2412	14.50	14.50		14.50	14.50		No
		2	2417	17.50	16.00		17.50	16.00		
		3	2422	17.50	16.00		17.50	16.00		
		6	2437	17.50	16.00		17.50	16.00		
		9	2452	17.50	16.00		17.50	16.00		
		10	2457	17.50	16.00		17.50	16.00		
		11	2462	13.50	13.50		13.50	13.50		
		12	2467	11.25	11.25		11.25	11.25		
		13	2472	7.50	7.50		7.50	7.50		
		1	2412	14.50		14.50	14.50		14.50	No
		2	2417	17.50		17.25	17.50		17.25	
		3	2422	17.50		17.25	17.50		17.25	
		6	2437	17.50		17.25	17.50		17.25	
		9	2452	17.50		17.25	17.50		17.25	
		10	2457	17.50		17.25	17.50		17.25	
		11	2462	13.50		13.50	13.50		13.50	
		12	2467	11.25		11.25	11.25		11.25	
		13	2472	7.50		7.50	7.50		7.50	
		1	2412		14.50	14.50		14.50	14.50	No
		2	2417		16.00	17.25		16.00	17.25	
		3	2422		16.00	17.25		16.00	17.25	
		6	2437		16.00	17.25		16.00	17.25	
		9	2452		16.00	17.25		16.00	17.25	
		10	2457		16.00	17.25		16.00	17.25	
		11	2462		13.50	13.50		13.50	13.50	
		12	2467		11.25	11.25		11.25	11.25	
		13	2472		7.50	7.50		7.50	7.50	
	2 Tx VHT20 TXBF	1	2412	17.00	16.00		17.00	16.00		No
		2	2417	17.50	16.00		17.50	16.00		
		3	2422	17.50	16.00		17.50	16.00		
		6	2437	17.50	16.00		17.50	16.00		
		9	2452	17.50	16.00		17.50	16.00		
		10	2457	17.50	16.00		17.50	16.00		
		11	2462	15.00	15.00		15.00	15.00		
		12	2467	14.00	14.00		14.00	14.00		
		13	2472	9.50	9.50		9.50	9.50		

Wi-Fi 2.4 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4 802.11ac (OFDM)	2 Tx VHT20 TXBF	1	2412	17.00		17.00	17.00		17.00	No
		2	2417	17.50		17.25	17.50		17.25	
		3	2422	17.50		17.25	17.50		17.25	
		6	2437	17.50		17.25	17.50		17.25	
		9	2452	17.50		17.25	17.50		17.25	
		10	2457	17.50		17.25	17.50		17.25	
		11	2462	15.00		15.00	15.00		15.00	
		12	2467	14.00		14.00	14.00		14.00	
		13	2472	9.50		9.50	9.50		9.50	
		1	2412		16.00	17.00		16.00	17.00	No
		2	2417		16.00	17.25		16.00	17.25	
		3	2422		16.00	17.25		16.00	17.25	
		6	2437		16.00	17.25		16.00	17.25	
		9	2452		16.00	17.25		16.00	17.25	
		10	2457		16.00	17.25		16.00	17.25	
		11	2462		15.00	15.00		15.00	15.00	
		12	2467		14.00	14.00		14.00	14.00	
		13	2472		9.50	9.50		9.50	9.50	
	3 Tx VHT20 CDD	1	2412	14.50	14.50	14.50	14.50	14.50	14.50	No
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	17.50	16.00	17.25	17.50	16.00	17.25	
		6	2437	17.50	16.00	17.25	17.50	16.00	17.25	
		9	2452	17.50	16.00	17.25	17.50	16.00	17.25	
		10	2457	17.50	16.00	17.25	17.50	16.00	17.25	
		11	2462	17.50	16.00	17.25	17.50	16.00	17.25	
		12	2467	11.25	11.25	11.25	11.25	11.25	11.25	
		13	2472	7.50	7.50	7.50	7.50	7.50	7.50	
	3 Tx VHT20 All Non TXBF	1	2412	14.50	14.50	14.50	14.50	14.50	14.50	No
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	17.50	16.00	17.25	17.50	16.00	17.25	
		6	2437	17.50	16.00	17.25	17.50	16.00	17.25	
		9	2452	17.50	16.00	17.25	17.50	16.00	17.25	
		10	2457	17.50	16.00	17.25	17.50	16.00	17.25	
		11	2462	13.50	13.50	13.50	13.50	13.50	13.50	
		12	2467	11.25	11.25	11.25	11.25	11.25	11.25	
		13	2472	7.50	7.50	7.50	7.50	7.50	7.50	
	3 Tx VHT20 TXBF	1	2412	17.00	16.00	17.00	17.00	16.00	17.00	No
		2	2417	17.50	16.00	17.25	17.50	16.00	17.25	
		3	2422	17.50	16.00	17.25	17.50	16.00	17.25	
		6	2437	17.50	16.00	17.25	17.50	16.00	17.25	
		9	2452	17.50	16.00	17.25	17.50	16.00	17.25	
		10	2457	17.50	16.00	17.25	17.50	16.00	17.25	
		11	2462	15.00	15.00	15.00	15.00	15.00	15.00	
		12	2467	14.00	14.00	14.00	14.00	14.00	14.00	
		13	2472	9.50	9.50	9.50	9.50	9.50	9.50	

8.2. Wi-Fi (5 GHz Bands)

Output Power Measurement Considerations for Wi-Fi 5 GHz bands

1. Frequency Band and Test Channel Considerations

- 5.15 – 5.25 and 5.25 – 5.35 GHz Bands (UNII Band 1 and UNII Band 2A)
 - o When SAR Test Exclusion according to KDB 447498 D01 does not apply, output power measurement is initially required for:
 - UNII 2A, if the output power specified for both bands are identical or higher on UNII 2A.
 - UNII 1, if higher output power is specified for UNII 1.
 - o Power must be measured at the highest and lowest channels in the frequency band, and also the mid-band channel when there are at least 3 channels.
 - o Output power measurement requirements for the remaining band are dependent on the SAR measurement results from the band initially tested; see Section 11 of the report for details
- 5.470 – 5.725, 5.725 – 5.825 GHz and 5.725 – 5.850 GHz Bands (UNII Band 2C and UNII 3)
 - o If both bands are ineligible for SAR Test Exclusion according to KDB 447498 D01 and the band gap channels between the two bands are supported, the frequency channels in UNII Band 2C from 5.65 GHz and above must be considered with UNII 3 for the sake of SAR measurement accuracy.
 - o Taking into account the grouping of frequency channels described above, output power is then measured at the highest, lowest and mid-band (where applicable) channels accordingly.

2. Test Mode and Configuration Considerations

- Within a frequency band that requires output power measurements, the process of choosing an initial mode for measurement is as follows:
 - o The mode and bandwidth configuration with the highest specified output power is prioritized.
 - o If the output power specified is the same across all modes and bandwidth configurations, the mode with the highest bandwidth is chosen.
 - o If a test mode cannot be identified with the two criteria listed above, the mode with the lowest order modulation is chosen.
 - o If a test mode still cannot be decided, then the mode with the lowest data rate is chosen.
 - o The mode that is chosen from this process is identified as the Initial Test Configuration
- Output power measurement requirements for other modes are dependent on the SAR measurement results from the initial mode of measurement (see Section 11 of the report for details); if SAR measurement is required for a subsequent mode/configuration, the following should be considered:
 - o The same process in choosing the Initial Test Configuration is applied again to choose the next configuration; this is identified as the Subsequent Test Configuration.
 - o If the Subsequent Test Configuration is of lower bandwidth than the Initial Test Configuration, power should be measured on all channels that overlap with the channels in the Initial Test Configuration that incurred testing for the Subsequent Test Configurations.

SAR Testing was determined per KDB KDB 248227

1. Yes SAR Testing is required
2. No SAR Testing is not required

Wi-Fi 5.2 GHz Bands Measured Results

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.2 802.11a (OFDM) U-NII-1	1 Tx	36	5180	16.50			16.50			No
		40	5200	16.50			16.50			
		44	5220	16.50			16.50			
		48	5240	16.50			16.50			
		36	5180		15.50			15.50		
		40	5200		15.50			15.50		
		44	5220		15.50			15.50		
		48	5240		15.50			15.50		
		36	5180			16.50			16.50	
		40	5200			16.50			16.50	
		44	5220			16.50			16.50	
		48	5240			16.50			16.50	
	2 Tx CDD	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	
	2 Tx TXBF	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	
	3 Tx CDD	36	5180	14.50	14.50	14.50	14.50	14.50	14.50	No
		40	5200	15.00	15.00	15.00	15.00	15.00	15.00	
		44	5220	15.00	15.00	15.00	15.00	15.00	15.00	
		48	5240	15.00	15.00	15.00	15.00	15.00	15.00	
	3 Tx TXBF	36	5180	14.50	14.50	14.50	14.50	14.50	14.50	No
		40	5200	15.00	15.00	15.00	15.00	15.00	15.00	
		44	5220	15.00	15.00	15.00	15.00	15.00	15.00	
		48	5240	15.00	15.00	15.00	15.00	15.00	15.00	

Wi-Fi 5.2 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.2 802.11n (OFDM) U-NII-1	1 Tx HT20 SISO	36	5180	16.50			16.50			No
		40	5200	16.50			16.50			
		44	5220	16.50			16.50			
		48	5240	16.50			16.50			
		36	5180		15.50			15.50		
		40	5200		15.50			15.50		
		44	5220		15.50			15.50		
		48	5240		15.50			15.50		
		36	5180			16.50			16.50	
		40	5200			16.50			16.50	
		44	5220			16.50			16.50	
		48	5240			16.50			16.50	
	2 Tx HT20 CDD	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	
	2 Tx HT20 STBC	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	

Wi-Fi 5.2 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.2 802.11n (OFDM) U-NII-1	2 Tx HT20 SDM	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	
	2 Tx HT20 TXBF	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	
	3 Tx HT20 CDD	36	5180	14.50	14.50	9.10	14.50	14.50	9.10	No
		40	5200	15.00	15.00	15.00	15.00	15.00	15.00	
		44	5220	15.00	15.00	15.00	15.00	15.00	15.00	
		48	5240	15.00	15.00	15.00	15.00	15.00	15.00	
	3 Tx HT20 STBC	36	5180	16.50	15.50	16.50	16.50	15.50	16.50	No
		40	5200	16.50	15.50	16.50	16.50	15.50	16.50	
		44	5220	16.50	15.50	16.50	16.50	15.50	16.50	
		48	5240	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx HT20 SDM	36	5180	16.50	15.50	16.50	16.50	15.50	16.50	No
		40	5200	16.50	15.50	16.50	16.50	15.50	16.50	
		44	5220	16.50	15.50	16.50	16.50	15.50	16.50	
		48	5240	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx HT20 TXBF	36	5180	14.50	14.50	14.50	14.50	14.50	14.50	No
		40	5200	15.00	15.00	15.00	15.00	15.00	15.00	
		44	5220	15.00	15.00	15.00	15.00	15.00	15.00	
		48	5240	15.00	15.00	15.00	15.00	15.00	15.00	

Wi-Fi 5.2 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.2 802.11n (OFDM) U-NII-1	1 Tx HT40	38	5190	15.50			15.50			No
		46	5230	16.50			16.50			
		38	5190		15.50			15.50		
		46	5230		15.50			15.50		
		38	5190			15.50			15.50	
		46	5230			16.50			16.50	
	2 Tx HT40 CDD	38	5190	12.50	12.50		12.50	12.50		No
		46	5230	16.50	15.50		16.50	15.50		
		38	5190	12.50		12.50	12.50		12.50	No
		46	5230	16.50		16.50	16.50		16.50	
		38	5190		12.50	12.50		12.50	12.50	No
		46	5230		15.50	16.50		15.50	16.50	
	2 Tx HT40 STBC	38	5190	12.50	12.50		12.50	12.50		No
		46	5230	16.50	15.50		16.50	15.50		
		38	5190	12.50		12.50	12.50		12.50	No
		46	5230	16.50		16.50	16.50		16.50	
		38	5190		12.50	12.50		12.50	12.50	No
		46	5230		15.50	16.50		15.50	16.50	
	2 Tx HT40 SDM	38	5190	12.50	12.50		12.50	12.50		No
		46	5230	16.50	15.50		16.50	15.50		
		38	5190	12.50		12.50	12.50		12.50	No
		46	5230	16.50		16.50	16.50		16.50	
		38	5190		12.50	12.50		12.50	12.50	No
		46	5230		15.50	16.50		15.50	16.50	
	2 Tx HT40 TXBF	38	5190	13.00	13.00		13.00	13.00		No
		46	5230	16.50	15.50		16.50	15.50		
		38	5190	13.00		13.00	13.00		13.00	No
		46	5230	16.50		16.50	16.50		16.50	
		38	5190		13.00	13.00		13.00	13.00	No
		46	5230		15.50	16.50		15.50	16.50	
	3 Tx HT40 CDD	38	5190	12.50	12.50	12.50	12.50	12.50	12.50	No
		46	5230	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx HT40 STBC	38	5190	12.25	12.25	12.25	12.25	12.25	12.25	No
		46	5230	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx HT40 SDM	38	5190	12.25	12.25	12.25	12.25	12.25	12.25	No
		46	5230	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx HT40 TXBF	38	5190	13.00	13.00	13.00	13.00	13.00	13.00	No
		46	5230	14.25	14.25	14.25	14.25	14.25	14.25	

Wi-Fi 5.2 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.2 802.11ac (OFDM) U-NII-1	1 Tx VHT20 SISO	36	5180	16.50			16.50			No
		40	5200	16.50			16.50			
		44	5220	16.50			16.50			
		48	5240	16.50			16.50			
		36	5180		15.50			15.50		
		40	5200		15.50			15.50		
		44	5220		15.50			15.50		
		48	5240		15.50			15.50		
		36	5180			16.50			16.50	
		40	5200			16.50			16.50	
		44	5220			16.50			16.50	
		48	5240			16.50			16.50	
	1 Tx VHT40 SISO	38	5190	15.50			15.50			No
		46	5230	16.50			16.50			
		38	5190		15.50			15.50		
		46	5230		15.50			15.50		
		38	5190			15.50			15.50	
		46	5230			16.50			16.50	
	1 Tx VHT80 SISO	42	5210	14.50			14.50			No
		42	5210		14.50			14.50		
		42	5210			14.50			14.50	
	2 Tx VHT20 CDD	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	
	2 Tx VHT20 STBC	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	

Wi-Fi 5.2 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.2 802.11ac (OFDM) U-NII-1	2 Tx VHT20 SDM	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	
	2 Tx VHT20 TXBF	36	5180	16.50	15.50		16.50	15.50		No
		40	5200	16.50	15.50		16.50	15.50		
		44	5220	16.50	15.50		16.50	15.50		
		48	5240	16.50	15.50		16.50	15.50		
		36	5180	16.50		16.50	16.50		16.50	No
		40	5200	16.50		16.50	16.50		16.50	
		44	5220	16.50		16.50	16.50		16.50	
		48	5240	16.50		16.50	16.50		16.50	
		36	5180		15.50	16.50		15.50	16.50	No
		40	5200		15.50	16.50		15.50	16.50	
		44	5220		15.50	16.50		15.50	16.50	
		48	5240		15.50	16.50		15.50	16.50	
	3 Tx VHT20 CDD	36	5180	14.50	14.50	14.50	14.50	14.50	14.50	No
		40	5200	15.00	15.00	15.00	15.00	15.00	15.00	
		44	5220	15.00	15.00	15.00	15.00	15.00	15.00	
		48	5240	15.00	15.00	15.00	15.00	15.00	15.00	
	3 Tx VHT20 STBC	36	5180	16.50	15.50	16.50	16.50	15.50	16.50	No
		40	5200	16.50	15.50	16.50	16.50	15.50	16.50	
		44	5220	16.50	15.50	16.50	16.50	15.50	16.50	
		48	5240	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx VHT20 SDM	36	5180	16.50	15.50	16.50	16.50	15.50	16.50	No
		40	5200	16.50	15.50	16.50	16.50	15.50	16.50	
		44	5220	16.50	15.50	16.50	16.50	15.50	16.50	
		48	5240	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx VHT20 TXBF	36	5180	14.50	14.50	14.50	14.50	14.50	14.50	No
		40	5200	15.00	15.00	15.00	15.00	15.00	15.00	
		44	5220	15.00	15.00	15.00	15.00	15.00	15.00	
		48	5240	15.00	15.00	15.00	15.00	15.00	15.00	

Wi-Fi 5.2 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.2 802.11ac (OFDM) U-NII-1	2 Tx VHT40 CDD	38	5190	12.50	12.50		12.50	12.50		No
		46	5230	16.50	15.50		16.50	15.50		
		38	5190	12.50		12.50	12.50		12.50	No
		46	5230	16.50		16.50	16.50		16.50	
		38	5190		12.50	12.50		12.50	12.50	No
		46	5230		15.50	16.50		15.50	16.50	
	2 Tx VHT40 STBC	38	5190	12.50	12.50		12.50	12.50		No
		46	5230	16.50	15.50		16.50	15.50		
		38	5190	12.50		12.50	12.50		12.50	No
		46	5230	16.50		16.50	16.50		16.50	
		38	5190		12.50	12.50		12.50	12.50	No
		46	5230		15.50	16.50		15.50	16.50	
	2 Tx VHT40 SDM	38	5190	12.50	12.50		12.50	12.50		No
		46	5230	16.50	15.50		16.50	15.50		
		38	5190	12.50		12.50	12.50		12.50	No
		46	5230	16.50		16.50	16.50		16.50	
		38	5190		12.50	12.50		12.50	12.50	No
		46	5230		15.50	16.50		15.50	16.50	
	2 Tx VHT40 TXBF	38	5190	13.00	13.00		13.00	13.00		No
		46	5230	16.50	15.50		16.50	15.50		
		38	5190	13.00		13.00	13.00		13.00	No
		46	5230	16.50		16.50	16.50		16.50	
		38	5190		13.00	13.00		13.00	13.00	No
		46	5230		15.50	16.50		15.50	16.50	
	3 Tx VHT40 CDD	38	5190	12.50	12.50	12.50	12.50	12.50	12.50	No
		46	5230	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx VHT40 STBC	38	5190	12.25	12.25	12.25	12.25	12.25	12.25	No
		46	5230	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx VHT40 SDM	38	5190	12.25	12.25	12.25	12.25	12.25	12.25	No
		46	5230	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx VHT40 TXBF	38	5190	13.00	13.00	13.00	13.00	13.00	13.00	No
		46	5230	14.25	14.25	14.25	14.25	14.25	14.25	
	2 Tx VHT80 CDD	42	5210	12.50	12.50		12.50	12.50		No
		42	5210	12.50		12.50	12.50		12.50	No
		42	5210		12.50	12.50		12.50	12.50	No
	2 Tx VHT80 STBC	42	5210	12.50	12.50		12.50	12.50		No
		42	5210	12.50		12.50	12.50		12.50	No
		42	5210		12.50	12.50		12.50	12.50	No

Wi-Fi 5.2 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.2 802.11ac (OFDM) U-NII-1	2 Tx VHT80 SDM	42	5210	12.50	12.50		12.50	12.50		No
		42	5210	12.50		12.50	12.50		12.50	No
		42	5210		12.50	12.50		12.50	12.50	No
	2 Tx VHT80 TXBF	42	5210	10.25	10.25		10.25	10.25		No
		42	5210	10.25		10.25	10.25		10.25	No
		42	5210		10.25	10.25		10.25	10.25	No
	3 Tx VHT80 CDD	42	5210	12.50	12.50	12.50	12.50	12.50	12.50	No
	3 Tx VHT80 STBC	42	5210	12.50	12.50	12.50	12.50	12.50	12.50	No
	3 Tx VHT80 SDM	42	5210	12.50	12.50	12.50	12.50	12.50	12.50	No
	3 Tx VHT80 TXBF	42	5210	10.00	10.00	10.00	10.00	10.00	10.00	No

Wi-Fi 5.3 GHz Band Measured Results

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.3 802.11a (OFDM) U-NII-2A	1 Tx	52	5260	18.00			18.00			No
		56	5280	18.00			18.00			
		60	5300	18.00			18.00			
		64	5320	18.00			18.00			
		52	5260		15.00			15.00		
		56	5280		15.00			15.00		
		60	5300		15.00			15.00		
		64	5320		15.00			15.00		
		52	5260			16.50			16.50	
		56	5280			16.50			16.50	
		60	5300			16.50			16.50	
		64	5320			16.50			16.50	
	2 Tx CDD	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	17.00	15.00		17.00	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	17.00		16.50	17.00		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	

Wi-Fi 5.3 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.3 802.11a (OFDM) U-NII-2A	2 Tx TXBF	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	16.50	15.00		16.50	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	16.50		16.50	16.50		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	
	3 Tx CDD	52	5260	16.00	15.00	16.00	16.00	15.00	16.00	No
		56	5280	16.00	15.00	16.00	16.00	15.00	16.00	
		60	5300	16.00	15.00	16.00	16.00	15.00	16.00	
		64	5320	16.00	15.00	16.00	16.00	15.00	16.00	
	3 Tx TXBF	52	5260	16.00	15.00	16.00	16.00	15.00	16.00	Yes
		56	5280	16.00	15.00	16.00	16.00	15.00	16.00	
		60	5300	16.00	15.00	16.00	16.00	15.00	16.00	
		64	5320	16.00	15.00	16.00	16.00	15.00	16.00	
5.3 802.11n (OFDM) U-NII-2A	1 Tx HT20 SISO	52	5260	18.00			18.00			No
		56	5280	18.00			18.00			
		60	5300	18.00			18.00			
		64	5320	18.00			18.00			
		52	5260		15.00			15.00		
		56	5280		15.00			15.00		
		60	5300		15.00			15.00		
		64	5320		15.00			15.00		
		52	5260			16.50			16.50	
		56	5280			16.50			16.50	
		60	5300			16.50			16.50	
		64	5320			16.50			16.50	
	1 Tx HT40 SISO	54	5270	18.00			18.00			Yes
		62	5310	15.00			15.00			
		54	5270		15.00			15.00		
		62	5310		15.00			15.00		
		54	5270			16.50			16.50	
		62	5310			15.00			15.00	

Wi-Fi 5.3 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.3 802.11n (OFDM) U-NII-2A	2 Tx HT20 CDD	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	17.00	15.00		17.00	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	17.00		16.50	17.00		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	
	2 Tx HT20 STBC	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	17.00	15.00		17.00	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	17.00		16.50	17.00		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	
5.3 802.11n (OFDM) U-NII-2A	2 Tx HT20 SDM	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	17.00	15.00		17.00	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	17.00		16.50	17.00		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	
	2 Tx HT20 TXBF	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	17.00	15.00		17.00	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	17.00		16.50	17.00		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	

Wi-Fi 5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.3 802.11n (OFDM) U-NII-2A	3 Tx HT20 CDD	52	5260	16.00	15.00	16.00	16.00	15.00	16.00	No
		56	5280	16.00	15.00	16.00	16.00	15.00	16.00	
		60	5300	16.00	15.00	16.00	16.00	15.00	16.00	
		64	5320	16.00	15.00	16.00	16.00	15.00	16.00	
	3 Tx HT20 STBC	52	5260	16.00	15.00	16.00	16.00	15.00	16.00	No
		56	5280	16.00	15.00	16.00	16.00	15.00	16.00	
		60	5300	16.00	15.00	16.00	16.00	15.00	16.00	
		64	5320	16.00	15.00	16.00	16.00	15.00	16.00	
	3 Tx HT20 SDM	52	5260	16.00	15.00	16.00	16.00	15.00	16.00	No
		56	5280	16.00	15.00	16.00	16.00	15.00	16.00	
		60	5300	16.00	15.00	16.00	16.00	15.00	16.00	
		64	5320	16.00	15.00	16.00	16.00	15.00	16.00	
	3 Tx HT20 TXBF	52	5260	16.00	15.00	16.00	16.00	15.00	16.00	No
		56	5280	16.00	15.00	16.00	16.00	15.00	16.00	
		60	5300	16.00	15.00	16.00	16.00	15.00	16.00	
		64	5320	16.00	15.00	16.00	16.00	15.00	16.00	
	2 Tx HT40 CDD	54	5270	18.00	15.00		18.00	15.00		Yes
		62	5310	12.50	12.50		12.50	12.50		
		54	5270	18.00		16.50	18.00		16.50	
		62	5310	12.50		12.50	12.50		12.50	
		54	5270		15.00	16.50		15.00	16.50	
		62	5310		12.50	12.50		12.50	12.50	
	2 Tx HT40 STBC	54	5270	18.00	15.00		18.00	15.00		No
		62	5310	12.50	12.50		12.50	12.50		No
		54	5270	18.00		16.50	18.00		16.50	No
		62	5310	12.50		12.50	12.50		12.50	No
		54	5270		15.00	16.50		15.00	16.50	No
		62	5310		12.50	12.50		12.50	12.50	No
	2 Tx HT40 SDM	54	5270	18.00	15.00		18.00	15.00		No
		62	5310	12.50	12.50		12.50	12.50		No
		54	5270	18.00		16.50	18.00		16.50	No
		62	5310	12.50		12.50	12.50		12.50	No
		54	5270		15.00	16.50		15.00	16.50	No
		62	5310		12.50	12.50		12.50	12.50	No

Wi-Fi 5.3 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.3 802.11n (OFDM) U-NII-2A	2 Tx HT40 TXBF	54	5270	16.50	15.00		16.50	15.00		No
		62	5310	12.00	12.00		12.00	12.00		
		54	5270	16.50		16.50	16.50		16.50	No
		62	5310	12.00		12.00	12.00		12.00	
		54	5270		15.00	16.50		15.00	16.50	No
		62	5310		12.00	12.00		12.00	12.00	
	3 Tx HT40 CDD	54	5270	18.00	15.00	16.50	18.00	15.00	16.50	Yes
		62	5310	12.50	12.50	12.50	12.50	12.50	12.50	
	3 Tx HT40 STBC	54	5270	17.75	15.00	16.50	17.75	15.00	16.50	No
		62	5310	12.50	12.50	12.50	12.50	12.50	12.50	
	3 Tx HT40 SDM	54	5270	17.75	15.00	16.50	17.75	15.00	16.50	No
		62	5310	12.50	12.50	12.50	12.50	12.50	12.50	
	3 Tx HT40 TXBF	54	5270	14.00	14.00	14.00	14.00	14.00	14.00	No
		62	5310	12.00	12.00	12.00	12.00	12.00	12.00	
5.3 802.11ac (OFDM) U-NII-2A	1 Tx VHT20 SISO	52	5260	18.00			18.00			No
		56	5280	18.00			18.00			
		60	5300	18.00			18.00			
		64	5320	18.00			18.00			
		52	5260		15.00			15.00		No
		56	5280		15.00			15.00		
		60	5300		15.00			15.00		
		64	5320		15.00			15.00		
		52	5260			16.50			16.50	
		56	5280			16.50			16.50	
		60	5300			16.50			16.50	
		64	5320			16.50			16.50	
	1 Tx VHT40 SISO	54	5270	18.00			18.00			No
		62	5310	15.00			15.00			
		54	5270		15.00			15.00		
		62	5310		15.00			15.00		
		54	5270			16.50			16.50	
		62	5310			15.00			15.00	
	1 Tx VHT80 SISO	58	5290	13.75			13.75			No
		58	5290		13.75			13.75		
		58	5290			13.75			13.75	

Wi-Fi 5 GHz Bands Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.3 802.11ac (OFDM) U-NII-2A	2 Tx VHT20 CDD	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	17.00	15.00		17.00	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	17.00		16.50	17.00		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	
	2 Tx VHT20 STBC	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	17.00	15.00		17.00	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	17.00		16.50	17.00		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	
	2 Tx VHT20 SDM	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	17.00	15.00		17.00	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	17.00		16.50	17.00		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	

Wi-Fi 5.3 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.3 802.11ac (OFDM) U-NII-2A	2 Tx VHT20 TXBF	52	5260	18.00	15.00		18.00	15.00		No
		56	5280	18.00	15.00		18.00	15.00		
		60	5300	18.00	15.00		18.00	15.00		
		64	5320	16.50	15.00		16.50	15.00		
		52	5260	18.00		16.50	18.00		16.50	No
		56	5280	18.00		16.50	18.00		16.50	
		60	5300	18.00		16.50	18.00		16.50	
		64	5320	16.50		16.50	16.50		16.50	
		52	5260		15.00	16.50		15.00	16.50	No
		56	5280		15.00	16.50		15.00	16.50	
		60	5300		15.00	16.50		15.00	16.50	
		64	5320		15.00	16.50		15.00	16.50	
	3 Tx VHT20 CDD	52	5260	16.00	15.00	16.00	16.00	15.00	16.00	No
		56	5280	16.00	15.00	16.00	16.00	15.00	16.00	
		60	5300	16.00	15.00	16.00	16.00	15.00	16.00	
		64	5320	16.00	15.00	16.00	16.00	15.00	16.00	
	3 Tx VHT20 STBC	52	5260	18.00	15.00	16.50	18.00	15.00	16.50	No
		56	5280	18.00	15.00	16.50	18.00	15.00	16.50	
		60	5300	18.00	15.00	16.50	18.00	15.00	16.50	
		64	5320	17.00	15.00	16.50	17.00	15.00	16.50	
	3 Tx VHT20 SDM	52	5260	18.00	15.00	16.50	18.00	15.00	16.50	No
		56	5280	18.00	15.00	16.50	18.00	15.00	16.50	
		60	5300	18.00	15.00	16.50	18.00	15.00	16.50	
		64	5320	17.00	15.00	16.50	17.00	15.00	16.50	
	3 Tx VHT20 TXBF	52	5260	16.00	15.00	16.00	16.00	15.00	16.00	No
		56	5280	16.00	15.00	16.00	16.00	15.00	16.00	
		60	5300	16.00	15.00	16.00	16.00	15.00	16.00	
		64	5320	17.00	15.00	16.50	17.00	15.00	16.50	
	2 Tx VHT40 CDD	54	5270	18.00	15.00		18.00	15.00		No
		62	5310	12.50	12.50		12.50	12.50		
		54	5270	18.00		16.50	18.00		16.50	
		62	5310	12.50		12.50	12.50		12.50	
		54	5270		15.00	16.50		15.00	16.50	
		62	5310		12.50	12.50		12.50	12.50	
	2 Tx VHT40 STBC	54	5270	18.00	15.00		18.00	15.00		No
		62	5310	12.50	12.50		12.50	12.50		
		54	5270	18.00		16.50	18.00		16.50	No
		62	5310	12.50		12.50	12.50		12.50	
		54	5270		15.00	16.50		15.00	16.50	No
		62	5310		12.50	12.50		12.50	12.50	
	2 Tx VHT40 SDM	54	5270	18.00	15.00		18.00	15.00		No
		62	5310	12.50	12.50		12.50	12.50		
		54	5270	18.00		16.50	18.00		16.50	No
		62	5310	12.50		12.50	12.50		12.50	
		54	5270		15.00	16.50		15.00	16.50	No
		62	5310		12.50	12.50		12.50	12.50	

Wi-Fi 5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.3 802.11ac (OFDM) U-NII-2A	2 Tx VHT40 TXBF	54	5270	16.50	15.00		16.50	15.00		No
		62	5310	12.00	12.00		12.00	12.00		
		54	5270	16.50		16.50	16.50		16.50	No
		62	5310	12.00		12.00	12.00		12.00	
		54	5270		15.00	16.50		15.00	16.50	No
		62	5310		12.00	12.00		12.00	12.00	
	3 Tx VHT40 CDD	54	5270	18.00	15.00	16.50	18.00	15.00	16.50	No
		62	5310	12.50	12.50	12.50	12.50	12.50	12.50	
	3 Tx VHT40 STBC	54	5270	17.75	15.00	16.50	17.75	15.00	16.50	No
		62	5310	12.50	12.50	12.50	12.50	12.50	12.50	
	3 Tx VHT40 SDM	54	5270	17.75	15.00	16.50	17.75	15.00	16.50	No
		62	5310	12.50	12.50	12.50	12.50	12.50	12.50	
	3 Tx VHT40 TXBF	54	5270	14.00	14.00	14.00	14.00	14.00	14.00	No
		62	5310	12.00	12.00	12.00	12.00	12.00	12.00	
	2 Tx VHT80 CDD	58	5290	11.50	11.50		11.50	11.50		No
		58	5290	11.50		11.50	11.50		11.50	
		58	5290		11.50	11.50		11.50	11.50	
	2 Tx VHT80 STBC	58	5290	11.50	11.50		11.50	11.50		No
		58	5290	11.50		11.50	11.50		11.50	
		58	5290		11.50	11.50		11.50	11.50	
	2 Tx VHT80 SDM	58	5290	11.50	11.50		11.50	11.50		No
		58	5290	11.50		11.50	11.50		11.50	
		58	5290		11.50	11.50		11.50	11.50	
	2 Tx VHT80 TXBF	58	5290	9.50	9.50		9.50	9.50		No
		58	5290	9.50		9.50	9.50		9.50	
		58	5290		9.50	9.50		9.50	9.50	
	3 Tx VHT80 CDD	58	5290	11.50	11.50	11.50	11.50	11.50	11.50	No
	3 Tx VHT80 STBC	58	5290	11.50	11.50	11.50	11.50	11.50	11.50	No
	3 Tx VHT80 SDM	58	5290	11.50	11.50	11.50	11.50	11.50	11.50	No
	3 Tx VHT80 TXBF	58	5290	9.50	9.50	9.50	9.50	9.50	9.50	No

Wi-Fi 5.5 GHz Band Measured Results

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11a (OFDM) U-NII-2C	1 Tx	100	5500	17.00			17.00			No
		104	5520	18.00			17.50			
		108	5540	18.00			17.50			
		112	5560	18.00			17.50			
		116	5580	18.00			17.50			
		120	5600	18.00			17.50			
		124	5620	18.00			17.50			
		128	5640	18.00			17.50			
		132	5660	18.00			17.50			
		136	5680	18.00			17.50			
		140	5700	16.25			16.25			
		144	5720	18.00			17.50			
		100	5500		17.00			15.50		
		104	5520		18.00			15.50		
		108	5540		18.00			15.50		
		112	5560		18.00			15.50		
		116	5580		18.00			15.50		
		120	5600		18.00			15.50		
		124	5620		18.00			15.50		
		128	5640		18.00			15.50		
		132	5660		18.00			15.50		
		136	5680		18.00			15.50		
		140	5700		16.25			15.50		
		144	5720		18.00			15.50		
		100	5500			17.00			16.75	No
		104	5520			18.00			16.75	
		108	5540			18.00			16.75	
		112	5560			18.00			16.75	
		116	5580			18.00			16.75	
		120	5600			18.00			16.75	
		124	5620			18.00			16.75	
		128	5640			18.00			16.75	
		132	5660			18.00			16.75	
		136	5680			18.00			16.75	
		140	5700			16.25			16.25	
		144	5720			18.00			16.75	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11a (OFDM) U-NII-2C	2 Tx CDD	100	5500	16.00	16.00		16.00	15.50		No
		104	5520	18.00	18.00		17.50	15.50		
		108	5540	18.00	18.00		17.50	15.50		
		112	5560	18.00	18.00		17.50	15.50		
		116	5580	18.00	18.00		17.50	15.50		
		120	5600	18.00	18.00		17.50	15.50		
		124	5620	18.00	18.00		17.50	15.50		
		128	5640	18.00	18.00		17.50	15.50		
		132	5660	18.00	18.00		17.50	15.50		
		136	5680	18.00	18.00		17.50	15.50		
		140	5700	14.50	14.50		14.50	14.50		
		144	5720	18.00	18.00		17.50	15.50		
		100	5500	16.00		16.00	16.00		16.00	No
		104	5520	18.00		18.00	17.50		16.75	
		108	5540	18.00		18.00	17.50		16.75	
		112	5560	18.00		18.00	17.50		16.75	
		116	5580	18.00		18.00	17.50		16.75	
		120	5600	18.00		18.00	17.50		16.75	
		124	5620	18.00		18.00	17.50		16.75	
		128	5640	18.00		18.00	17.50		16.75	
		132	5660	18.00		18.00	17.50		16.75	
		136	5680	18.00		18.00	17.50		16.75	
		140	5700	14.50		14.50	14.50		14.50	
		144	5720	18.00		18.00	18.00		16.75	
		100	5500		16.00	16.00		15.50	16.00	No
		104	5520		18.00	18.00		15.50	16.75	
		108	5540		18.00	18.00		15.50	16.75	
		112	5560		18.00	18.00		15.50	16.75	
		116	5580		18.00	18.00		15.50	16.75	
		120	5600		18.00	18.00		15.50	16.75	
		124	5620		18.00	18.00		15.50	16.75	
		128	5640		18.00	18.00		15.50	16.75	
		132	5660		18.00	18.00		15.50	16.75	
		136	5680		18.00	18.00		15.50	16.75	
		140	5700		14.50	14.50		14.50	14.50	
		144	5720		18.00	18.00		15.50	16.75	
	2 Tx TXBF	100	5500	17.50	17.50		17.50	15.50		No
		104	5520	18.00	18.00		17.50	15.50		
		108	5540	18.00	18.00		17.50	15.50		
		112	5560	18.00	18.00		17.50	15.50		
		116	5580	18.00	18.00		17.50	15.50		
		120	5600	18.00	18.00		17.50	15.50		
		124	5620	18.00	18.00		17.50	15.50		
		128	5640	18.00	18.00		17.50	15.50		
		132	5660	18.00	18.00		17.50	15.50		
		136	5680	18.00	18.00		17.50	15.50		
		140	5700	14.50	14.50		14.50	14.50		
		144	5720	18.00	18.00		17.50	15.50		

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11a (OFDM) U-NII-2C	2 Tx TXBF	100	5500	17.50		17.50	17.50		16.75	No
		104	5520	18.00		18.00	17.50		16.75	
		108	5540	18.00		18.00	17.50		16.75	
		112	5560	18.00		18.00	17.50		16.75	
		116	5580	18.00		18.00	17.50		16.75	
		120	5600	18.00		18.00	17.50		16.75	
		124	5620	18.00		18.00	17.50		16.75	
		128	5640	18.00		18.00	17.50		16.75	
		132	5660	18.00		18.00	17.50		16.75	
		136	5680	18.00		18.00	17.50		16.75	
		140	5700	15.50		15.50	15.50		15.50	
		144	5720	18.00		18.00	17.50		16.75	
		100	5500		17.50	17.50		15.50	16.75	No
		104	5520		18.00	18.00		15.50	16.75	
		108	5540		18.00	18.00		15.50	16.75	
		112	5560		18.00	18.00		15.50	16.75	
		116	5580		18.00	18.00		15.50	16.75	
		120	5600		18.00	18.00		15.50	16.75	
		124	5620		18.00	18.00		15.50	16.75	
		128	5640		18.00	18.00		15.50	16.75	
		132	5660		18.00	18.00		15.50	16.75	
		136	5680		18.00	18.00		15.50	16.75	
		140	5700		15.50	15.50		15.50	15.50	
		144	5720		18.00	18.00		15.50	16.75	
	3 Tx CDD	100	5500	15.50	15.50	15.50	15.50	15.50	15.50	No
		104	5520	15.50	15.50	15.50	15.50	15.50	15.50	
		108	5540	15.50	15.50	15.50	15.50	15.50	15.50	
		112	5560	15.50	15.50	15.50	15.50	15.50	15.50	
		116	5580	15.50	15.50	15.50	15.50	15.50	15.50	
		120	5600	15.50	15.50	15.50	15.50	15.50	15.50	
		124	5620	15.50	15.50	15.50	15.50	15.50	15.50	
		128	5640	15.50	15.50	15.50	15.50	15.50	15.50	
		132	5660	15.50	15.50	15.50	15.50	15.50	15.50	
		136	5680	15.50	15.50	15.50	15.50	15.50	15.50	
		140	5700	14.50	14.50	14.50	14.50	14.50	14.50	
		144	5720	15.50	15.50	15.50	15.50	15.50	15.50	
	3 Tx TXBF	100	5500	15.50	15.50	15.50	15.50	15.50	15.50	No
		104	5520	15.50	15.50	15.50	15.50	15.50	15.50	
		108	5540	15.50	15.50	15.50	15.50	15.50	15.50	
		112	5560	15.50	15.50	15.50	15.50	15.50	15.50	
		116	5580	15.50	15.50	15.50	15.50	15.50	15.50	
		120	5600	15.50	15.50	15.50	15.50	15.50	15.50	
		124	5620	15.50	15.50	15.50	15.50	15.50	15.50	
		128	5640	15.50	15.50	15.50	15.50	15.50	15.50	
		132	5660	15.50	15.50	15.50	15.50	15.50	15.50	
		136	5680	15.50	15.50	15.50	15.50	15.50	15.50	
		140	5700	15.50	15.50	15.50	15.50	15.50	15.50	
		144	5720	15.50	15.50	15.50	15.50	15.50	15.50	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11n (OFDM) U-NII-2C	1 Tx HT20	100	5500	17.00			17.00			No
		104	5520	17.50			17.50			
		108	5540	17.50			17.50			
		112	5560	17.50			17.50			
		116	5580	17.50			17.50			
		120	5600	17.50			17.50			
		124	5620	17.50			17.50			
		128	5640	17.50			17.50			
		132	5660	17.50			17.50			
		136	5680	17.50			17.50			
		140	5700	16.25			16.25			
		144	5720	17.50			17.50			
		100	5500		15.50			15.50		No
		104	5520		15.50			15.50		
		108	5540		15.50			15.50		
		112	5560		15.50			15.50		
		116	5580		15.50			15.50		
		120	5600		15.50			15.50		
		124	5620		15.50			15.50		
		128	5640		15.50			15.50		
		132	5660		15.50			15.50		
		136	5680		15.50			15.50		
		140	5700		15.50			15.50		
		144	5720		15.50			15.50		
		100	5500			16.75			16.75	No
		104	5520			16.75			16.75	
		108	5540			16.75			16.75	
		112	5560			16.75			16.75	
		116	5580			16.75			16.75	
		120	5600			16.75			16.75	
		124	5620			16.75			16.75	
		128	5640			16.75			16.75	
		132	5660			16.75			16.75	
		136	5680			16.75			16.75	
		140	5700			16.25			16.25	
		144	5720			16.75			16.75	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11n (OFDM) U-NII-2C	1 Tx HT40	102	5510	16.00			16.00			No
		110	5550	17.50			17.50			
		118	5590	17.50			17.50			
		126	5630	17.50			17.50			
		134	5670	17.50			17.50			
		142	5710	17.50			17.50			
		102	5510		15.50			15.50		No
		110	5550		15.50			15.50		
		118	5590		15.50			15.50		
		126	5630		15.50			15.50		
		134	5670		15.50			15.50		
		142	5710		15.50			15.50		
		102	5510			16.00			16.00	No
		110	5550			16.75			16.75	
		118	5590			16.75			16.75	
		126	5630			16.75			16.75	
		134	5670			16.75			16.75	
		142	5710			16.75			16.75	
	2 Tx HT20 CDD	100	5500	16.00	15.50		16.00	15.50		No
		104	5520	17.50	15.50		17.50	15.50		
		108	5540	17.50	15.50		17.50	15.50		
		112	5560	17.50	15.50		17.50	15.50		
		116	5580	17.50	15.50		17.50	15.50		
		120	5600	17.50	15.50		17.50	15.50		
		124	5620	17.50	15.50		17.50	15.50		
		128	5640	17.50	15.50		17.50	15.50		
		136	5680	17.50	15.50		17.50	15.50		No
		140	5700	14.50	14.50		14.50	14.50		
		144	5720	17.50	15.50		17.50	15.50		
		100	5500	16.00		16.00	16.00		16.00	
		104	5520	17.50		16.75	17.50		16.75	
		108	5540	17.50		16.75	17.50		16.75	
		112	5560	17.50		16.75	17.50		16.75	
		116	5580	17.50		16.75	17.50		16.75	
		120	5600	17.50		16.75	17.50		16.75	
		124	5620	17.50		16.75	17.50		16.75	
		128	5640	17.50		16.75	17.50		16.75	
		136	5680	17.50		16.75	17.50		16.75	
		140	5700	14.50		14.50	14.50		14.50	
		144	5720	17.50		16.75	17.50		16.75	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11n (OFDM) U-NII-2C	2 Tx HT20 CDD	100	5500		15.50	16.00		15.50	16.00	No
		104	5520		15.50	16.75		15.50	16.75	
		108	5540		15.50	16.75		15.50	16.75	
		112	5560		15.50	16.75		15.50	16.75	
		116	5580		15.50	16.75		15.50	16.75	
		120	5600		15.50	16.75		15.50	16.75	
		124	5620		15.50	16.75		15.50	16.75	
		128	5640		15.50	16.75		15.50	16.75	
		136	5680		15.50	16.75		15.50	16.75	
		140	5700		14.50	14.50		14.50	14.50	
		144	5720		15.50	16.75		15.50	16.75	
	2 Tx HT20 CDD	100	5500	16.00	15.50		16.00	15.50		No
		104	5520	17.50	15.50		17.50	15.50		
		108	5540	17.50	15.50		17.50	15.50		
		112	5560	17.50	15.50		17.50	15.50		
		116	5580	17.50	15.50		17.50	15.50		
		120	5600	17.50	15.50		17.50	15.50		
		124	5620	17.50	15.50		17.50	15.50		
		128	5640	17.50	15.50		17.50	15.50		
		136	5680	17.50	15.50		17.50	15.50		
		140	5700	14.50	14.50		14.50	14.50		
		144	5720	17.50	15.50		17.50	15.50		
	2 Tx HT20 STBC/SDM	100	5500	16.00		16.00	16.00		16.00	No
		104	5520	17.50		16.75	17.50		16.75	
		108	5540	17.50		16.75	17.50		16.75	
		112	5560	17.50		16.75	17.50		16.75	
		116	5580	17.50		16.75	17.50		16.75	
		120	5600	17.50		16.75	17.50		16.75	
		124	5620	17.50		16.75	17.50		16.75	
		128	5640	17.50		16.75	17.50		16.75	
		136	5680	17.50		16.75	17.50		16.75	
		140	5700	14.50		14.50	14.50		14.50	
		144	5720	17.50		16.75	17.50		16.75	
	2 Tx HT20 STBC/SDM	100	5500		15.50	16.00		15.50	16.00	No
		104	5520		15.50	16.75		15.50	16.75	
		108	5540		15.50	16.75		15.50	16.75	
		112	5560		15.50	16.75		15.50	16.75	
		116	5580		15.50	16.75		15.50	16.75	
		120	5600		15.50	16.75		15.50	16.75	
		124	5620		15.50	16.75		15.50	16.75	
		128	5640		15.50	16.75		15.50	16.75	
		136	5680		15.50	16.75		15.50	16.75	
		140	5700		14.50	14.50		14.50	14.50	
		144	5720		15.50	16.75		15.50	16.75	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11n (OFDM) U-NII-2C	2 Tx HT20 TXBF	100	5500	17.50	15.50		17.50	15.50		No
		104	5520	17.50	15.50		17.50	15.50		
		108	5540	17.50	15.50		17.50	15.50		
		112	5560	17.50	15.50		17.50	15.50		
		116	5580	17.50	15.50		17.50	15.50		
		120	5600	17.50	15.50		17.50	15.50		
		124	5620	17.50	15.50		17.50	15.50		
		128	5640	17.50	15.50		17.50	15.50		
		136	5680	17.50	15.50		17.50	15.50		
		140	5700	15.50	15.50		15.50	15.50		
		144	5720	17.50	15.50		17.50	15.50		
		100	5500	17.50		16.75	17.50		16.75	No
		104	5520	17.50		16.75	17.50		16.75	
		108	5540	17.50		16.75	17.50		16.75	
		112	5560	17.50		16.75	17.50		16.75	
		116	5580	17.50		16.75	17.50		16.75	
		120	5600	17.50		16.75	17.50		16.75	
		124	5620	17.50		16.75	17.50		16.75	
		128	5640	17.50		16.75	17.50		16.75	
		136	5680	17.50		16.75	17.50		16.75	
		140	5700	15.50		15.50	15.50		15.50	
		144	5720	17.50		16.75	17.50		16.75	
	3 Tx HT20 CDD	100	5500		15.50	16.75		15.50	16.75	No
		104	5520		15.50	16.75		15.50	16.75	
		108	5540		15.50	16.75		15.50	16.75	
		112	5560		15.50	16.75		15.50	16.75	
		116	5580		15.50	16.75		15.50	16.75	
		120	5600		15.50	16.75		15.50	16.75	
		124	5620		15.50	16.75		15.50	16.75	
		128	5640		15.50	16.75		15.50	16.75	
		136	5680		15.50	16.75		15.50	16.75	
		140	5700		15.50	15.50		15.50	15.50	
		144	5720		15.50	16.75		15.50	16.75	
		100	5500	15.50	15.50	15.50	15.50	15.50	15.50	No
		104	5520	15.50	15.50	15.50	15.50	15.50	15.50	
		108	5540	15.50	15.50	15.50	15.50	15.50	15.50	
		112	5560	15.50	15.50	15.50	15.50	15.50	15.50	
		116	5580	15.50	15.50	15.50	15.50	15.50	15.50	
		120	5600	15.50	15.50	15.50	15.50	15.50	15.50	
		124	5620	15.50	15.50	15.50	15.50	15.50	15.50	
		128	5640	15.50	15.50	15.50	15.50	15.50	15.50	
		136	5680	15.50	15.50	15.50	15.50	15.50	15.50	
		140	5700	14.50	14.50	14.50	14.50	14.50	14.50	
		144	5720	15.50	15.50	15.50	15.50	15.50	15.50	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11n (OFDM) U-NII-2C	3 Tx HT20 STBC/SDM	100	5500	16.00	15.50	16.00	16.00	15.50	16.00	No
		104	5520	17.50	15.50	16.75	17.50	15.50	16.75	
		108	5540	17.50	15.50	16.75	17.50	15.50	16.75	
		112	5560	17.50	15.50	16.75	17.50	15.50	16.75	
		116	5580	17.50	15.50	16.75	17.50	15.50	16.75	
		120	5600	17.50	15.50	16.75	17.50	15.50	16.75	
		124	5620	17.50	15.50	16.75	17.50	15.50	16.75	
		128	5640	17.50	15.50	16.75	17.50	15.50	16.75	
		136	5680	17.50	15.50	16.75	17.50	15.50	16.75	
		140	5700	14.50	14.50	14.50	14.50	14.50	14.50	
		144	5720	17.50	15.50	16.75	17.50	15.50	16.75	
	3 Tx HT20 TXBF	100	5500	15.50	15.50	15.50	15.50	15.50	15.50	No
		104	5520	15.50	15.50	15.50	15.50	15.50	15.50	
		108	5540	15.50	15.50	15.50	15.50	15.50	15.50	
		112	5560	15.50	15.50	15.50	15.50	15.50	15.50	
		116	5580	15.50	15.50	15.50	15.50	15.50	15.50	
		120	5600	15.50	15.50	15.50	15.50	15.50	15.50	
		124	5620	15.50	15.50	15.50	15.50	15.50	15.50	
		128	5640	15.50	15.50	15.50	15.50	15.50	15.50	
		132	5660	14.50	14.50	14.50	14.50	14.50	14.50	
		136	5680	14.50	14.50	14.50	14.50	14.50	14.50	
		140	5700	14.50	14.50	14.50	14.50	14.50	14.50	
		144	5720	14.50	14.50	14.50	14.50	14.50	14.50	
	2 Tx HT40 CDD	102	5510	12.00	12.00		12.00	12.00		No
		110	5550	17.50	15.50		17.50	15.50		
		118	5590	17.50	15.50		17.50	15.50		
		126	5630	17.50	15.50		17.50	15.50		
		134	5670	16.50	15.50		16.50	15.50		
		142	5710	17.50	15.50		17.50	15.50		
		102	5510	12.00		12.00	12.00		12.00	
		110	5550	17.50		16.75	17.50		16.75	
		118	5590	17.50		16.75	17.50		16.75	
		126	5630	17.50		16.75	17.50		16.75	
		134	5670	16.50		16.50	16.50		16.50	
		142	5710	17.50		16.75	17.50		16.75	
		102	5510		12.00	12.00		12.00	12.00	
		110	5550		15.50	16.75		15.50	16.75	
		118	5590		15.50	16.75		15.50	16.75	
		126	5630		15.50	16.75		15.50	16.75	
		134	5670		15.50	16.50		15.50	16.50	
		142	5710		15.50	16.75		15.50	16.75	
	2 Tx HT40 STBC/SDM	102	5510	12.00	12.00		12.00	12.00		No
		110	5550	17.50	15.50		17.50	15.50		
		118	5590	17.50	15.50		17.50	15.50		
		126	5630	17.50	15.50		17.50	15.50		
		134	5670	16.50	15.50		16.50	15.50		
		142	5710	17.50	15.50		17.50	15.50		

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11n (OFDM) U-NII-2C	2 TX HT40 STBC/SDM	102	5510	12.00		12.00	12.00		12.00	No
		110	5550	17.50		16.75	17.50		16.75	
		118	5590	17.50		16.75	17.50		16.75	
		126	5630	17.50		16.75	17.50		16.75	
		134	5670	16.50		16.50	16.50		16.50	
		142	5710	17.50		16.75	17.50		16.75	
		102	5510		12.00	12.00		12.00	12.00	
		110	5550		15.50	16.75		15.50	16.75	
		118	5590		15.50	16.75		15.50	16.75	
		126	5630		15.50	16.75		15.50	16.75	
		134	5670		15.50	16.50		15.50	16.50	
		142	5710		15.50	16.75		15.50	16.75	
	2 Tx HT40 TXBF	102	5510	11.00	11.00		11.00	11.00		No
		110	5550	17.50	15.50		17.50	15.50		
		118	5590	17.50	15.50		17.50	15.50		
		126	5630	17.50	15.50		17.50	15.50		
		134	5670	16.00	15.50		16.00	15.50		
		142	5710	17.50	15.50		17.50	15.50		
		102	5510	11.00		11.00	11.00		11.00	
		110	5550	17.50		16.75	17.50		16.75	
		118	5590	17.50		16.75	17.50		16.75	
		126	5630	17.50		16.75	17.50		16.75	
		134	5670	16.00		16.00	16.00		16.00	
		142	5710	17.50		16.75	17.50		16.75	
		102	5510		11.00	11.00		11.00	11.00	
		110	5550		15.50	16.75		15.50	16.75	
		118	5590		15.50	16.75		15.50	16.75	
		126	5630		15.50	16.75		15.50	16.75	
		134	5670		15.50	16.00		15.50	16.00	
		142	5710		15.50	16.75		15.50	16.75	
	3 Tx HT40 CDD	102	5510	12.00	12.00	12.00	12.00	12.00	12.00	No
		110	5550	17.50	15.50	16.75	17.50	15.50	16.75	
		118	5590	17.50	15.50	16.75	17.50	15.50	16.75	
		126	5630	17.50	15.50	16.75	17.50	15.50	16.75	
		134	5670	16.50	15.50	16.50	16.50	15.50	16.50	
		142	5710	16.25	15.50	16.25	16.25	15.50	16.25	
	3 Tx HT40 STBC/SDM	102	5510	12.00	12.00	12.00	12.00	12.00	12.00	
		110	5550	17.50	15.50	16.75	17.50	15.50	16.75	
		118	5590	17.50	15.50	16.75	17.50	15.50	16.75	
		126	5630	17.50	15.50	16.75	17.50	15.50	16.75	
	3 Tx HT40 TXBF	102	5510	11.00	11.00	11.00	11.00	11.00	11.00	
		110	5550	14.75	14.75	14.75	14.75	14.75	14.75	
		118	5590	14.75	14.75	14.75	14.75	14.75	14.75	
		126	5630	14.75	14.75	14.75	14.75	14.75	14.75	
		134	5670	14.75	14.75	14.75	14.75	14.75	14.75	
		142	5710	15.00	15.00	15.00	15.00	15.00	15.00	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11ac (OFDM) U-NII-2C	1 Tx VHT20	100	5500	17.00			17.00			No
		104	5520	17.50			17.50			
		108	5540	17.50			17.50			
		112	5560	17.50			17.50			
		116	5580	17.50			17.50			
		120	5600	17.50			17.50			
		124	5620	17.50			17.50			
		128	5640	17.50			17.50			
		136	5680	17.50			17.50			
		140	5700	16.25			16.25			
		144	5720	17.50			17.50			
		100	5500		15.50			15.50		No
		104	5520		15.50			15.50		
		108	5540		15.50			15.50		
		112	5560		15.50			15.50		
		116	5580		15.50			15.50		
		120	5600		15.50			15.50		
		124	5620		15.50			15.50		
		128	5640		15.50			15.50		
		136	5680		15.50			15.50		
		140	5700		15.50			15.50		
		144	5720		15.50			15.50		
	1 Tx VHT40	100	5500			16.75			16.75	No
		104	5520			16.75			16.75	
		108	5540			16.75			16.75	
		112	5560			16.75			16.75	
		116	5580			16.75			16.75	
		120	5600			16.75			16.75	
		124	5620			16.75			16.75	
		128	5640			16.75			16.75	
		136	5680			16.75			16.75	
		140	5700			16.25			16.25	
		144	5720			16.75			16.75	
		102	5510	16.00			16.00			No
		110	5550	17.50			17.50			
		118	5590	17.50			17.50			
		126	5630	17.50			17.50			
		134	5670	17.50			17.50			
		142	5710	17.50			17.50			
		102	5510		15.50			15.50		
		110	5550		15.50			15.50		
		118	5590		15.50			15.50		
		126	5630		15.50			15.50		
		134	5670		15.50			15.50		
		142	5710		15.50			15.50		
		102	5510			16.00			16.00	
		110	5550			16.75			16.75	
		118	5590			16.75			16.75	
		126	5630			16.75			16.75	
		134	5670			16.75			16.75	
		142	5710			16.75			16.75	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11ac (OFDM) U-NII-2C	1 Tx VHT80	106	5530	12.75			12.75			Yes
		122	5610	17.50			17.50			
		138	5690	17.50			17.50			
		106	5530		12.75			12.75		
		122	5610		15.50			15.50		
		138	5690		15.50			15.50		
		106	5530			12.75			12.75	
		122	5610			16.75			16.75	
		138	5690			16.75			16.75	
	2 Tx VHT 20 CDD	100	5500	16.00	15.50		16.00	15.50		No
		104	5520	17.50	15.50		17.50	15.50		
		108	5540	17.50	15.50		17.50	15.50		
		112	5560	17.50	15.50		17.50	15.50		
		116	5580	17.50	15.50		17.50	15.50		
		120	5600	17.50	15.50		17.50	15.50		
		124	5620	17.50	15.50		17.50	15.50		
		128	5640	17.50	15.50		17.50	15.50		
		136	5680	17.50	15.50		17.50	15.50		
		140	5700	14.50	14.50		14.50	14.50		No
		144	5720	17.50	15.50		17.50	15.50		
		100	5500	16.00		16.00	16.00		16.00	
		104	5520	17.50		16.75	17.50		16.75	
		108	5540	17.50		16.75	17.50		16.75	
		112	5560	17.50		16.75	17.50		16.75	
		116	5580	17.50		16.75	17.50		16.75	
		120	5600	17.50		16.75	17.50		16.75	
		124	5620	17.50		16.75	17.50		16.75	
		128	5640	17.50		16.75	17.50		16.75	
		136	5680	17.50		16.75	17.50		16.75	No
		140	5700	14.50		14.50	14.50		14.50	
		144	5720	17.50		16.75	17.50		16.75	
		100	5500		15.50	16.00		15.50	16.00	
		104	5520		15.50	16.75		15.50	16.75	
		108	5540		15.50	16.75		15.50	16.75	
		112	5560		15.50	16.75		15.50	16.75	
		116	5580		15.50	16.75		15.50	16.75	
		120	5600		15.50	16.75		15.50	16.75	
		124	5620		15.50	16.75		15.50	16.75	
		128	5640		15.50	16.75		15.50	16.75	
		136	5680		15.50	16.75		15.50	16.75	
		140	5700		14.50	14.50		14.50	14.50	
		144	5720		15.50	16.75		15.50	16.75	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11ac (OFDM) U-NII-2C	2 Tx VHT20 STBC/SDM	100	5500	16.00	15.50		16.00	15.50		No
		104	5520	17.50	15.50		17.50	15.50		
		108	5540	17.50	15.50		17.50	15.50		
		112	5560	17.50	15.50		17.50	15.50		
		116	5580	17.50	15.50		17.50	15.50		
		120	5600	17.50	15.50		17.50	15.50		
		124	5620	17.50	15.50		17.50	15.50		
		128	5640	17.50	15.50		17.50	15.50		
		136	5680	17.50	15.50		17.50	15.50		
		140	5700	14.50	14.50		14.50	14.50		
		144	5720	17.50	15.50		17.50	15.50		
		100	5500	16.00		16.00	16.00		16.00	No
		104	5520	17.50		16.75	17.50		16.75	
		108	5540	17.50		16.75	17.50		16.75	
		112	5560	17.50		16.75	17.50		16.75	
		116	5580	17.50		16.75	17.50		16.75	
		120	5600	17.50		16.75	17.50		16.75	
		124	5620	17.50		16.75	17.50		16.75	
		128	5640	17.50		16.75	17.50		16.75	
		136	5680	17.50		16.75	17.50		16.75	
		140	5700	14.50		14.50	14.50		14.50	
		144	5720	17.50		16.75	17.50		16.75	
	2 Tx VHT20 TXBF	100	5500		15.50	16.00		15.50	16.00	No
		104	5520		15.50	16.75		15.50	16.75	
		108	5540		15.50	16.75		15.50	16.75	
		112	5560		15.50	16.75		15.50	16.75	
		116	5580		15.50	16.75		15.50	16.75	
		120	5600		15.50	16.75		15.50	16.75	
		124	5620		15.50	16.75		15.50	16.75	
		128	5640		15.50	16.75		15.50	16.75	
		136	5680		15.50	16.75		15.50	16.75	
		140	5700		14.50	14.50		14.50	14.50	
		144	5720		15.50	16.75		15.50	16.75	
		100	5500	17.50	15.50		17.50	15.50		
		104	5520	17.50	15.50		17.50	15.50		
		108	5540	17.50	15.50		17.50	15.50		
		112	5560	17.50	15.50		17.50	15.50		
		116	5580	17.50	15.50		17.50	15.50		
		120	5600	17.50	15.50		17.50	15.50		
		124	5620	17.50	15.50		17.50	15.50		
		128	5640	17.50	15.50		17.50	15.50		
		136	5680	17.50	15.50		17.50	15.50		
		140	5700	15.50	15.50		15.50	15.50		
		144	5720	17.50	15.50		17.50	15.50		

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11ac (OFDM) U-NII-2C	2 Tx VHT20 TXBF	100	5500	17.50		16.75	17.50		16.75	No
		104	5520	17.50		16.75	17.50		16.75	
		108	5540	17.50		16.75	17.50		16.75	
		112	5560	17.50		16.75	17.50		16.75	
		116	5580	17.50		16.75	17.50		16.75	
		120	5600	17.50		16.75	17.50		16.75	
		124	5620	17.50		16.75	17.50		16.75	
		128	5640	17.50		16.75	17.50		16.75	
		136	5680	17.50		16.75	17.50		16.75	
		140	5700	15.50		15.50	15.50		15.50	
		144	5720	17.50		16.75	17.50		16.75	
		100	5500		15.50	16.75		15.50	16.75	No
		104	5520		15.50	16.75		15.50	16.75	
		108	5540		15.50	16.75		15.50	16.75	
		112	5560		15.50	16.75		15.50	16.75	
		116	5580		15.50	16.75		15.50	16.75	
		120	5600		15.50	16.75		15.50	16.75	
		124	5620		15.50	16.75		15.50	16.75	
		128	5640		15.50	16.75		15.50	16.75	
		136	5680		15.50	16.75		15.50	16.75	
		140	5700		15.50	15.50		15.50	15.50	
		144	5720		15.50	16.75		15.50	16.75	
	3 Tx VHT20 CDD	100	5500	15.50	15.50	15.50	15.50	15.50	15.50	No
		104	5520	15.50	15.50	15.50	15.50	15.50	15.50	
		108	5540	15.50	15.50	15.50	15.50	15.50	15.50	
		112	5560	15.50	15.50	15.50	15.50	15.50	15.50	
		116	5580	15.50	15.50	15.50	15.50	15.50	15.50	
		120	5600	15.50	15.50	15.50	15.50	15.50	15.50	
		124	5620	15.50	15.50	15.50	15.50	15.50	15.50	
		128	5640	15.50	15.50	15.50	15.50	15.50	15.50	
		136	5680	15.50	15.50	15.50	15.50	15.50	15.50	
		140	5700	14.50	14.50	14.50	14.50	14.50	14.50	
		144	5720	15.50	15.50	15.50	15.50	15.50	15.50	No
	3 Tx VHT20 STBC/SDM	100	5500	16.00	15.50	16.00	16.00	15.50	16.00	
		104	5520	17.50	15.50	16.75	17.50	15.50	16.75	
		108	5540	17.50	15.50	16.75	17.50	15.50	16.75	
		112	5560	17.50	15.50	16.75	17.50	15.50	16.75	
		116	5580	17.50	15.50	16.75	17.50	15.50	16.75	
		120	5600	17.50	15.50	16.75	17.50	15.50	16.75	
		124	5620	17.50	15.50	16.75	17.50	15.50	16.75	
		128	5640	17.50	15.50	16.75	17.50	15.50	16.75	
		136	5680	17.50	15.50	16.75	17.50	15.50	16.75	
		140	5700	14.50	14.50	14.50	14.50	14.50	14.50	
		144	5720	17.50	15.50	16.75	17.50	15.50	16.75	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11ac (OFDM) U-NII-2C	3 Tx VHT20 TXBF	100	5500	15.50	15.50	15.50	15.50	15.50	15.50	No
		104	5520	15.50	15.50	15.50	15.50	15.50	15.50	
		108	5540	15.50	15.50	15.50	15.50	15.50	15.50	
		112	5560	15.50	15.50	15.50	15.50	15.50	15.50	
		116	5580	15.50	15.50	15.50	15.50	15.50	15.50	
		120	5600	15.50	15.50	15.50	15.50	15.50	15.50	
		124	5620	15.50	15.50	15.50	15.50	15.50	15.50	
		128	5640	15.50	15.50	15.50	15.50	15.50	15.50	
		136	5680	15.50	15.50	15.50	15.50	15.50	15.50	
		140	5700	15.50	15.50	15.50	15.50	15.50	15.50	
		144	5720	15.50	15.50	15.50	15.50	15.50	15.50	
	2 Tx VHT40 CDD	102	5510	12.00	12.00		12.00	12.00		No
		110	5550	17.50	15.50		17.50	15.50		
		118	5590	17.50	15.50		17.50	15.50		
		126	5630	17.50	15.50		17.50	15.50		
		134	5670	16.50	15.50		16.50	15.50		
		142	5710	17.50	15.50		17.50	15.50		No
		102	5510	12.00		12.00	12.00		12.00	
		110	5550	17.50		16.75	17.50		16.75	
		118	5590	17.50		16.75	17.50		16.75	
		126	5630	17.50		16.75	17.50		16.75	
		134	5670	16.50		16.50	16.50		16.50	
		142	5710	17.50		16.75	17.50		16.75	
		102	5510		12.00	12.00		12.00	12.00	No
		110	5550		15.50	16.75		15.50	16.75	
		118	5590		15.50	16.75		15.50	16.75	
		126	5630		15.50	16.75		15.50	16.75	
		134	5670		15.50	16.50		15.50	16.50	
		142	5710		15.50	16.75		15.50	16.75	
	2 Tx VHT40 STBC/SDM	102	5510	12.00	12.00		12.00	12.00		No
		110	5550	17.50	15.50		17.50	15.50		
		118	5590	17.50	15.50		17.50	15.50		
		126	5630	17.50	15.50		17.50	15.50		
		134	5670	16.50	15.50		16.50	15.50		
		142	5710	17.50	15.50		17.50	15.50		No
		102	5510	12.00		12.00	12.00		12.00	
		110	5550	17.50		16.75	17.50		16.75	
		118	5590	17.50		16.75	17.50		16.75	
		126	5630	17.50		16.75	17.50		16.75	
		134	5670	16.50		16.50	16.50		16.50	
		142	5710	17.50		16.75	17.50		16.75	No
		102	5510		12.00	12.00		12.00	12.00	
		110	5550		15.50	16.75		15.50	16.75	
		118	5590		15.50	16.75		15.50	16.75	
		126	5630		15.50	16.75		15.50	16.75	
		134	5670		15.50	16.50		15.50	16.50	
		142	5710		15.50	16.75		15.50	16.75	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11ac (OFDM) U-NII-2C	2 Tx VHT40 TXBF	102	5510	11.00	11.00		11.00	11.00		No
		110	5550	17.50	15.50		17.50	15.50		
		118	5590	17.50	15.50		17.50	15.50		
		126	5630	17.50	15.50		17.50	15.50		
		134	5670	16.00	15.50		16.00	15.50		
		142	5710	17.50	15.50		17.50	15.50		No
		102	5510	11.00		11.00	11.00		11.00	
		110	5550	17.50		16.75	17.50		16.75	
		118	5590	17.50		16.75	17.50		16.75	
		126	5630	17.50		16.75	17.50		16.75	
		134	5670	16.00		16.00	16.00		16.00	
		142	5710	17.50		16.75	17.50		16.75	No
		102	5510		11.00	11.00		11.00	11.00	
		110	5550		15.50	16.75		15.50	16.75	
		118	5590		15.50	16.75		15.50	16.75	
		126	5630		15.50	16.75		15.50	16.75	
		134	5670		15.50	16.00		15.50	16.00	
		142	5710		15.50	16.75		15.50	16.75	No
	3 TX VHT40 CDD	102	5510	12.00	12.00	12.00	12.00	12.00	12.00	
		110	5550	17.50	15.50	16.75	17.50	15.50	16.75	
		118	5590	17.50	15.50	16.75	17.50	15.50	16.75	
		126	5630	17.50	15.50	16.75	17.50	15.50	16.75	
		134	5670	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx VHT40 STBC/SDM	102	5510	12.00	12.00	12.00	12.00	12.00	12.00	No
		110	5550	17.50	15.50	16.75	17.50	15.50	16.75	
		118	5590	17.50	15.50	16.75	17.50	15.50	16.75	
		126	5630	17.50	15.50	16.75	17.50	15.50	16.75	
		134	5670	16.50	15.50	16.50	16.50	15.50	16.50	
	3 Tx VHT40 TXBF	142	5710	16.25	15.50	16.25	16.25	15.50	16.25	No
		102	5510	11.00	11.00	11.00	11.00	11.00	11.00	
		110	5550	14.75	14.75	14.75	14.75	14.75	14.75	
		118	5590	14.75	14.75	14.75	14.75	14.75	14.75	
		126	5630	14.75	14.75	14.75	14.75	14.75	14.75	
	2 Tx VHT80 CDD	134	5670	14.75	14.75	14.75	14.75	14.75	14.75	Yes
		142	5710	15.00	15.00	15.00	15.00	15.00	15.00	
		106	5530	12.50	12.50		12.50	12.50		
		122	5610	17.50	15.50		17.50	15.50		
		138	5690	17.50	15.50		17.50	15.50		
		106	5530	12.50		12.50	12.50		12.50	
		122	5610	17.50		16.75	17.50		16.75	
		138	5690	17.50		16.75	17.50		16.75	
		106	5530		12.50	12.50		12.50	12.50	
		122	5610		15.50	16.75		15.50	16.75	
		138	5690		15.50	16.75		15.50	16.75	

Wi-Fi 5.5 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5 802.11ac (OFDM) U-NII-2C	2 Tx VHT80 STBC/SDM	106	5530	12.50	12.50		12.50	12.50		No
		122	5610	17.50	15.50		17.50	15.50		
		138	5690	17.50	15.50		17.50	15.50		
		106	5530	12.50		12.50	12.50		12.50	No
		122	5610	17.50		16.75	17.50		16.75	
		138	5690	17.50		16.75	17.50		16.75	
		106	5530		12.50	12.50		12.50	12.50	No
		122	5610		15.50	16.75		15.50	16.75	
		138	5690		15.50	16.75		15.50	16.75	
	2 Tx VHT80 TXBF	106	5530	11.00	11.00		11.00	11.00		No
		122	5610	16.00	15.50		16.00	15.50		
		138	5690	17.50	15.50		17.50	15.50		
		106	5530	11.00		11.00	11.00		11.00	No
		122	5610	16.00		16.00	16.00		16.00	
		138	5690	17.50		16.75	17.50		16.75	
		106	5530		11.00	11.00		11.00	11.00	No
		122	5610		15.50	16.00		15.50	16.00	
		138	5690		15.50	16.75		15.50	16.75	
	3 Tx VHT80 CDD	106	5530	12.50	12.50	12.50	12.50	12.50	12.50	Yes
		122	5610	17.50	15.50	16.75	17.50	15.50	16.75	
		138	5690	17.50	15.50	16.75	17.50	15.50	16.75	
	3 Tx VHT80 STBC/SDM	106	5530	12.50	12.50	12.50	12.50	12.50	12.50	No
		122	5610	17.50	15.50	16.75	17.50	15.50	16.75	
		138	5690	17.50	15.50	16.75	17.50	15.50	16.75	
	3 Tx VHT80 TXBF	106	5530	11.00	11.00	11.00	11.00	11.00	11.00	Yes
		122	5610	14.75	14.75	14.75	14.75	14.75	14.75	
		138	5690	17.50	15.50	16.75	17.50	15.50	16.75	

Wi-Fi 5.8 GHz Band Measured Results

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.8 802.11a (OFDM) U-NII-3	1 Tx	149	5745	16.00			16.00			Yes
		153	5765	18.50			18.50			
		157	5785	18.50			18.50			
		161	5805	18.50			18.50			
		165	5825	18.50			18.50			
		149	5745		16.00			16.00		No
		153	5765		16.50			16.50		
		157	5785		16.50			16.50		
		161	5805		16.50			16.50		
		165	5825		16.50			16.50		
		149	5745			16.00			16.00	Yes
		153	5765			18.50			18.50	
		157	5785			18.50			18.50	
		161	5805			18.50			18.50	
		165	5825			18.50			18.50	
	2 Tx CDD	149	5745	17.50	16.50		17.50	16.50		Yes
		153	5765	18.50	16.50		18.50	16.50		
		157	5785	18.50	16.50		18.50	16.50		
		161	5805	18.50	16.50		18.50	16.50		
		165	5825	17.50	16.50		17.50	16.50		
		149	5745	17.50		17.50	17.50		17.50	No
		153	5765	18.50		18.50	18.50		18.50	
		157	5785	18.50		18.50	18.50		18.50	
		161	5805	18.50		18.50	18.50		18.50	
		165	5825	17.50		17.50	17.50		17.50	
		149	5745		16.50	17.50		16.50	17.50	Yes
		153	5765		16.50	18.50		16.50	18.50	
		157	5785		16.50	18.50		16.50	18.50	
		161	5805		16.50	18.50		16.50	18.50	
		165	5825		16.50	17.50		16.50	17.50	
	2 Tx TXBF	149	5745	16.50	16.50		16.50	16.50		No
		153	5765	18.50	16.50		18.50	16.50		
		157	5785	18.50	16.50		18.50	16.50		
		161	5805	18.50	16.50		18.50	16.50		
		165	5825	18.00	16.50		18.00	16.50		
		149	5745	16.50		16.50	16.50		16.50	
		153	5765	18.50		18.50	18.50		18.50	
		157	5785	18.50		18.50	18.50		18.50	
		161	5805	18.50		18.50	18.50		18.50	
		165	5825	18.00		18.00	18.00		18.00	
		149	5745		16.50	16.50		16.50	16.50	
		153	5765		16.50	16.50		16.50	16.50	
		157	5785		16.50	18.50		16.50	18.50	
		161	5805		16.50	18.50		16.50	18.50	
		165	5825		16.50	18.00		16.50	18.00	

Wi-Fi 5.8 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.8 (OFDM) U-NII-3	3 Tx CDD/TxBF	149	5745	18.00	16.50	18.00	18.00	16.50	18.00	Yes
		153	5765	18.50	16.50	18.50	18.50	16.50	18.50	
		157	5785	18.50	16.50	18.50	18.50	16.50	18.50	
		161	5805	18.50	16.50	18.50	18.50	16.50	18.50	
		165	5825	18.00	16.50	18.00	18.00	16.50	18.00	
	1 Tx SISO HT20	149	5745	16.00			16.00			No
		153	5765	18.50			18.50			
		157	5785	18.50			18.50			
		161	5805	18.50			18.50			
		165	5825	18.50			18.50			
		149	5745		16.00			16.00		
		153	5765		16.50			16.50		
		157	5785		16.50			16.50		
		161	5805		16.50			16.50		
		165	5825		16.50			16.50		
		149	5745			16.00			16.00	
		153	5765			18.50			18.50	
		157	5785			18.50			18.50	
		161	5805			18.50			18.50	
		165	5825			18.50			18.50	
	2 Tx HT20 CDD/STBC/SDM	149	5745	17.50	16.50		17.50	16.50		No
		157	5785	18.50	16.50		18.50	16.50		
		165	5825	17.50	16.50		17.50	16.50		
		149	5745	17.50		17.50	17.50		17.50	
		157	5785	18.50		18.50	18.50		18.50	
		165	5825	17.50		17.50	17.50		17.50	
		149	5745		16.50	17.50		16.50	17.50	
		157	5785		16.50	18.50		16.50	18.50	
	2 Tx HT20 TXBF	165	5825		16.50	17.50		16.50	17.50	
		149	5745	16.50	16.50		16.50	16.50		No
		157	5785	18.50	16.50		18.50	16.50		
		165	5825	18.00	16.50		18.00	16.50		
		149	5745	16.50		16.50	16.50		16.50	
		157	5785	18.50		18.50	18.50		18.50	
		165	5825	18.00		18.00	18.00		18.00	
		149	5745		16.50	16.50		16.50	16.50	
		157	5785		16.50	18.50		16.50	18.50	
		165	5825		16.50	18.00		16.50	18.00	

Wi-Fi 5.8 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.8 (OFDM) U-NII-3	3 Tx HT20 CDD/	149	5745	14.50	14.50	14.50	14.50	14.50	14.50	No
		157	5785	18.50	16.50	18.50	18.50	16.50	18.50	
		165	5825	17.50	16.50	17.50	17.50	16.50	17.50	
	3 Tx HT20 STBC/SDM	149	5745	14.50	14.50	14.50	14.50	14.50	14.50	No
		157	5785	18.50	16.50	18.50	18.50	16.50	18.50	
		165	5825	17.50	16.50	17.50	17.50	16.50	17.50	
	3 Tx HT20 TXBF	149	5745	14.50	14.50	14.50	14.50	14.50	14.50	No
		157	5785	18.00	16.50	18.00	18.00	16.50	18.00	
		165	5825	18.00	16.50	18.00	18.00	16.50	18.00	
	1 Tx HT40 SISO	151	5755	14.50			14.50			No
		159	5795	18.00			18.00			
		151	5755		14.50			14.50		Yes
		159	5795		16.50			16.50		
		151	5755			14.50			14.50	No
		159	5795			18.00			18.00	
	2 Tx HT40 CDD	151	5755	15.00	15.00		15.00	15.00		No
		159	5795	17.50	16.50		17.50	16.50		
		151	5755	15.00		15.00	15.00		15.00	
		159	5795	17.50		17.50	17.50		17.50	
		151	5755		15.00	15.00		15.00	15.00	
		159	5795		16.50	17.50		16.50	17.50	
	2 Tx HT40 TXBF	151	5755	15.50	15.50		15.50	15.50		No
		159	5795	18.00	16.50		18.00	16.50		
		151	5755	15.50		15.50	15.50		15.50	
		159	5795	18.00		18.00	18.00		18.00	
		151	5755		15.50	15.50		15.50	15.50	
		159	5795		16.50	18.00		16.50	18.00	
	3 Tx HT40 CDD	151	5755	12.50	12.50	12.50	12.50	12.50	12.50	No
		159	5795	17.50	16.50	17.50	17.50	16.50	17.50	
	3 Tx HT40 STBC/SDM	151	5755	12.50	12.50	12.50	12.50	12.50	12.50	No
		159	5795	17.50	16.50	17.50	17.50	16.50	17.50	
	3 Tx HT40 TXBF	151	5755	15.00	15.00	15.00	15.00	15.00	15.00	No
		159	5795	18.00	16.50	18.00	18.00	16.50	18.00	
	1 Tx VHT20 SISO	149	5745	16.00			16.00			No
		157	5785	18.50			18.50			
		165	5825	18.50			18.50			
		149	5745		16.00			16.00		
		157	5785		16.50			16.50		
		165	5825		16.50			16.50		
		149	5745			16.00			16.00	
		157	5785			18.50			18.50	
		165	5825			18.50			18.50	

Wi-Fi 5.8 GHz Band Measured Results continued

Band (GHz)	No. of Transmitters	Ch. #	Freq. (MHz)	Maximum Target power (dBm)			Measured Avg. Power (dBm)			SAR Test (Yes/No)
				Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	Wi-Fi 1	Wi-Fi 2	Wi-Fi 3	
				Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.8 802.11ac (OFDM) U-NII-3	2 Tx VHT40 CDD/STBC/ SDM	151	5755	15.00	15.00		15.00	15.00		No
		159	5795	17.50	16.50		17.50	16.50		
		151	5755	15.00		15.00	15.00		15.00	
		159	5795	17.50		17.50	17.50		17.50	
		151	5755		15.00	15.00		15.00	15.00	
		159	5795		16.50	17.50		16.50	17.50	
	2 Tx VHT40 TXBF	151	5755	15.50	15.50		15.50	15.50		No
		159	5795	17.50	16.50		17.50	16.50		
		151	5755	15.50		15.50	15.50		15.50	
		159	5795	17.50		17.50	17.50		17.50	
		151	5755		15.50	15.50		15.50	15.50	
		159	5795		16.50	18.00		16.50	18.00	
	3 Tx VHT40 CDD	151	5755	12.50	12.50	12.50	12.50	12.50	12.50	No
		159	5795	17.50	16.50	17.50	17.50	16.50	17.50	
	3 Tx VHT40 STBC/SDM	151	5755	12.50	12.50	12.50	12.50	12.50	12.50	No
		159	5795	17.50	16.50	17.50	17.50	16.50	17.50	
	3 Tx VHT40 TXBF	151	5755	15.00	15.00	15.00	15.00	15.00	15.00	No
		159	5795	17.50	16.50	17.50	17.50	16.50	17.50	
	2Tx VHT80 CDD/STBC/S DM	155	5775	14.50	14.50		14.50	14.50		No
		155	5775	14.50		14.50	14.50		14.50	
		155	5775		14.50	14.50		14.50	14.50	
	2 Tx VHT80 TXBF	155	5775	14.75	14.75		14.75	14.75		No
		155	5775	14.75		14.75	14.75		14.75	
		155	5775		14.75	14.75		14.75	14.75	
	3 Tx VHT80 CDD	155	5775	13.00	13.00	13.00	13.00	13.00	13.00	No
	3 Tx VHT80 STBC/ SDM	155	5775	13.00	13.00	13.00	13.00	13.00	13.00	No
	3 Tx VHT80 TXBF	155	5775	13.00	13.00	13.00	13.00	13.00	13.00	No

8.3. Bluetooth Measured Power

Band (GHz)	Mode	Ch #	Freq. (MHz)	Avg Power (dBm)
				Wi-Fi 3
				Chain 2
2.4	V1.8 + EDR, GFSK	0	2402	7.8
		39	2441	8.2
		78	2480	7.9
	V1.8 + EDR, QPSK	0	2402	4.5
		39	2441	4.4
		78	2480	4.5
	V1.8 BLE, 8PSK	0	2402	2.0
		19	2440	2.2
		39	2480	2.1

9. Dielectric Property Measurements

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within $\pm 2^\circ\text{C}$ of the temperature when the tissue parameters are characterized.

The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 – 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

Tissue dielectric parameters were measured at the low, middle and high frequency of each operating frequency range of the test device.

9.1. Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Target Frequency (MHz)	Head		Body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5000	36.2	4.45	49.3	5.07
5100	36.1	4.55	49.1	5.18
5200	36.0	4.66	49.0	5.30
5300	35.9	4.76	48.9	5.42
5400	35.8	4.86	48.7	5.53
5500	35.6	4.96	48.6	5.65
5600	35.5	5.07	48.5	5.77
5700	35.4	5.17	48.3	5.88
5800	35.3	5.27	48.2	6.00

IEEE Std 1528-2013

Refer to Table 3

9.2. Dielectric Property Measurements Results

DASY A

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit $\pm$ (%)
3/23/2015	Body 5180	e'	47.1500	Relative Permittivity (ϵ_r):	47.15	49.05	-3.87	5
		e"	18.0400	Conductivity (σ):	5.20	5.27	-1.43	5
	Body 5200	e'	47.0900	Relative Permittivity (ϵ_r):	47.09	49.02	-3.94	5
		e"	18.0500	Conductivity (σ):	5.22	5.29	-1.43	5
	Body 5600	e'	46.4500	Relative Permittivity (ϵ_r):	46.45	48.48	-4.18	5
		e"	18.3200	Conductivity (σ):	5.70	5.76	-0.98	5
	Body 5800	e'	46.1900	Relative Permittivity (ϵ_r):	46.19	48.20	-4.17	5
		e"	18.4200	Conductivity (σ):	5.94	6.00	-0.99	5
	Body 5825	e'	46.1500	Relative Permittivity (ϵ_r):	46.15	48.20	-4.25	5
		e"	18.4800	Conductivity (σ):	5.99	6.00	-0.24	5
3/24/2015	Body 5180	e'	48.5000	Relative Permittivity (ϵ_r):	48.50	49.05	-1.11	5
		e"	18.0800	Conductivity (σ):	5.21	5.27	-1.21	5
	Body 5200	e'	48.5000	Relative Permittivity (ϵ_r):	48.50	49.02	-1.06	5
		e"	18.0500	Conductivity (σ):	5.22	5.29	-1.43	5
	Body 5600	e'	48.0500	Relative Permittivity (ϵ_r):	48.05	48.48	-0.88	5
		e"	18.3300	Conductivity (σ):	5.71	5.76	-0.93	5
	Body 5800	e'	47.8400	Relative Permittivity (ϵ_r):	47.84	48.20	-0.75	5
		e"	18.5200	Conductivity (σ):	5.97	6.00	-0.46	5
	Body 5825	e'	47.8500	Relative Permittivity (ϵ_r):	47.85	48.20	-0.73	5
		e"	18.5900	Conductivity (σ):	6.02	6.00	0.35	5
5/4/2015	Body 5180	e'	47.7500	Relative Permittivity (ϵ_r):	47.75	49.05	-2.64	5
		e"	18.2300	Conductivity (σ):	5.25	5.27	-0.39	5
	Body 5200	e'	47.7300	Relative Permittivity (ϵ_r):	47.73	49.02	-2.63	5
		e"	18.2900	Conductivity (σ):	5.29	5.29	-0.12	5
	Body 5600	e'	47.4200	Relative Permittivity (ϵ_r):	47.42	48.48	-2.18	5
		e"	18.5000	Conductivity (σ):	5.76	5.76	-0.01	5
	Body 5800	e'	47.0400	Relative Permittivity (ϵ_r):	47.04	48.20	-2.41	5
		e"	18.5700	Conductivity (σ):	5.99	6.00	-0.19	5
	Body 5825	e'	47.0200	Relative Permittivity (ϵ_r):	47.02	48.20	-2.45	5
		e"	18.6900	Conductivity (σ):	6.05	6.00	0.89	5

DASY B

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
3/23/2015	Body 5180	e'	47.6000	Relative Permittivity (ϵ_r):	47.60	49.05	-2.95	5
		e"	18.0700	Conductivity (σ):	5.20	5.27	-1.27	5
	Body 5200	e'	47.5600	Relative Permittivity (ϵ_r):	47.56	49.02	-2.98	5
		e"	18.1000	Conductivity (σ):	5.23	5.29	-1.16	5
	Body 5600	e'	46.9100	Relative Permittivity (ϵ_r):	46.91	48.48	-3.23	5
		e"	18.3600	Conductivity (σ):	5.72	5.76	-0.77	5
	Body 5800	e'	46.6400	Relative Permittivity (ϵ_r):	46.64	48.20	-3.24	5
		e"	18.4700	Conductivity (σ):	5.96	6.00	-0.72	5
	Body 5825	e'	46.5900	Relative Permittivity (ϵ_r):	46.59	48.20	-3.34	5
		e"	18.5300	Conductivity (σ):	6.00	6.00	0.03	5
3/24/2015	Body 5180	e'	48.5400	Relative Permittivity (ϵ_r):	48.54	49.05	-1.03	5
		e"	17.9000	Conductivity (σ):	5.16	5.27	-2.20	5
	Body 5200	e'	48.5100	Relative Permittivity (ϵ_r):	48.51	49.02	-1.04	5
		e"	17.8600	Conductivity (σ):	5.16	5.29	-2.47	5
	Body 5600	e'	48.0900	Relative Permittivity (ϵ_r):	48.09	48.48	-0.80	5
		e"	18.1400	Conductivity (σ):	5.65	5.76	-1.96	5
	Body 5800	e'	47.9000	Relative Permittivity (ϵ_r):	47.90	48.20	-0.62	5
		e"	18.2700	Conductivity (σ):	5.89	6.00	-1.80	5
	Body 5825	e'	47.9100	Relative Permittivity (ϵ_r):	47.91	48.20	-0.60	5
		e"	18.3400	Conductivity (σ):	5.94	6.00	-1.00	5
4/27/2015	Body 5180	e'	49.3300	Relative Permittivity (ϵ_r):	49.33	49.05	0.58	5
		e"	17.5800	Conductivity (σ):	5.06	5.27	-3.94	5
	Body 5200	e'	49.3500	Relative Permittivity (ϵ_r):	49.35	49.02	0.67	5
		e"	17.6800	Conductivity (σ):	5.11	5.29	-3.45	5
	Body 5600	e'	48.8400	Relative Permittivity (ϵ_r):	48.84	48.48	0.75	5
		e"	17.9900	Conductivity (σ):	5.60	5.76	-2.77	5
	Body 5800	e'	48.4500	Relative Permittivity (ϵ_r):	48.45	48.20	0.52	5
		e"	18.0700	Conductivity (σ):	5.83	6.00	-2.87	5
	Body 5825	e'	48.4500	Relative Permittivity (ϵ_r):	48.45	48.20	0.52	5
		e"	18.1800	Conductivity (σ):	5.89	6.00	-1.86	5
5/4/2015	Body 5180	e'	47.8400	Relative Permittivity (ϵ_r):	47.84	49.05	-2.46	5
		e"	18.1900	Conductivity (σ):	5.24	5.27	-0.61	5
	Body 5200	e'	47.8100	Relative Permittivity (ϵ_r):	47.81	49.02	-2.47	5
		e"	18.2200	Conductivity (σ):	5.27	5.29	-0.50	5
	Body 5600	e'	47.4400	Relative Permittivity (ϵ_r):	47.44	48.48	-2.14	5
		e"	18.4600	Conductivity (σ):	5.75	5.76	-0.23	5
	Body 5800	e'	47.1200	Relative Permittivity (ϵ_r):	47.12	48.20	-2.24	5
		e"	18.5100	Conductivity (σ):	5.97	6.00	-0.51	5
	Body 5825	e'	47.0700	Relative Permittivity (ϵ_r):	47.07	48.20	-2.34	5
		e"	18.6600	Conductivity (σ):	6.04	6.00	0.73	5
5/6/2015	Body 5180	e'	46.9700	Relative Permittivity (ϵ_r):	46.97	49.05	-4.23	5
		e"	18.1200	Conductivity (σ):	5.22	5.27	-0.99	5
	Body 5200	e'	46.9600	Relative Permittivity (ϵ_r):	46.96	49.02	-4.20	5
		e"	18.1900	Conductivity (σ):	5.26	5.29	-0.67	5
	Body 5600	e'	46.3300	Relative Permittivity (ϵ_r):	46.33	48.48	-4.43	5
		e"	18.5200	Conductivity (σ):	5.77	5.76	0.10	5
	Body 5800	e'	45.9700	Relative Permittivity (ϵ_r):	45.97	48.20	-4.63	5
		e"	18.6400	Conductivity (σ):	6.01	6.00	0.19	5
	Body 5825	e'	45.9800	Relative Permittivity (ϵ_r):	45.98	48.20	-4.61	5
		e"	18.7500	Conductivity (σ):	6.07	6.00	1.22	5

DASY C

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
3/23/2015	Body 5180	e'	47.5500	Relative Permittivity (ε _r):	47.55	49.05	-3.05	5
		e"	17.9700	Conductivity (σ):	5.18	5.27	-1.81	5
	Body 5200	e'	47.4900	Relative Permittivity (ε _r):	47.49	49.02	-3.12	5
		e"	18.0000	Conductivity (σ):	5.20	5.29	-1.70	5
	Body 5600	e'	46.8500	Relative Permittivity (ε _r):	46.85	48.48	-3.36	5
		e"	18.2600	Conductivity (σ):	5.69	5.76	-1.31	5
	Body 5800	e'	46.5800	Relative Permittivity (ε _r):	46.58	48.20	-3.36	5
		e"	18.3600	Conductivity (σ):	5.92	6.00	-1.32	5
	Body 5825	e'	46.5000	Relative Permittivity (ε _r):	46.50	48.20	-3.53	5
		e"	18.4200	Conductivity (σ):	5.97	6.00	-0.57	5
3/25/2015	Body 2450	e'	50.7300	Relative Permittivity (ε _r):	50.73	52.70	-3.74	5
		e"	14.2000	Conductivity (σ):	1.93	1.95	-0.80	5
	Body 2410	e'	50.8700	Relative Permittivity (ε _r):	50.87	52.76	-3.58	5
		e"	14.0600	Conductivity (σ):	1.88	1.91	-1.23	5
	Body 2475	e'	50.6100	Relative Permittivity (ε _r):	50.61	52.67	-3.91	5
		e"	14.2900	Conductivity (σ):	1.97	1.99	-0.94	5
3/30/2015	Body 2450	e'	50.3600	Relative Permittivity (ε _r):	50.36	52.70	-4.44	5
		e"	14.1900	Conductivity (σ):	1.93	1.95	-0.87	5
	Body 2410	e'	50.6200	Relative Permittivity (ε _r):	50.62	52.76	-4.05	5
		e"	14.0100	Conductivity (σ):	1.88	1.91	-1.58	5
	Body 2475	e'	50.3400	Relative Permittivity (ε _r):	50.34	52.67	-4.42	5
		e"	14.4400	Conductivity (σ):	1.99	1.99	0.10	5
4/30/2015	Body 2450	e'	50.5400	Relative Permittivity (ε _r):	50.54	52.70	-4.10	5
		e"	13.8900	Conductivity (σ):	1.89	1.95	-2.96	5
	Body 2410	e'	50.8500	Relative Permittivity (ε _r):	50.85	52.76	-3.62	5
		e"	13.8500	Conductivity (σ):	1.86	1.91	-2.70	5
	Body 2475	e'	50.4700	Relative Permittivity (ε _r):	50.47	52.67	-4.17	5
		e"	14.0900	Conductivity (σ):	1.94	1.99	-2.32	5
5/4/2015	Body 2450	e'	50.9500	Relative Permittivity (ε _r):	50.95	52.70	-3.32	5
		e"	14.1700	Conductivity (σ):	1.93	1.95	-1.01	5
	Body 2410	e'	50.9800	Relative Permittivity (ε _r):	50.98	52.76	-3.37	5
		e"	13.9200	Conductivity (σ):	1.87	1.91	-2.21	5
	Body 2475	e'	50.8600	Relative Permittivity (ε _r):	50.86	52.67	-3.43	5
		e"	14.2700	Conductivity (σ):	1.96	1.99	-1.07	5

DASY D

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit ±(%)
3/23/2015	Body 5180	e'	47.6100	Relative Permittivity (ϵ_r):	47.61	49.05	-2.93	5
		e"	17.9500	Conductivity (σ):	5.17	5.27	-1.92	5
	Body 5200	e'	47.5600	Relative Permittivity (ϵ_r):	47.56	49.02	-2.98	5
		e"	17.9500	Conductivity (σ):	5.19	5.29	-1.98	5
	Body 5600	e'	46.9200	Relative Permittivity (ϵ_r):	46.92	48.48	-3.21	5
		e"	18.2400	Conductivity (σ):	5.68	5.76	-1.41	5
	Body 5800	e'	46.6300	Relative Permittivity (ϵ_r):	46.63	48.20	-3.26	5
		e"	18.3000	Conductivity (σ):	5.90	6.00	-1.64	5
Body 5825	e'	46.6000	Relative Permittivity (ϵ_r):	46.60	48.20	-3.32	5	
	e"	18.3600	Conductivity (σ):	5.95	6.00	-0.89	5	
3/24/2015	Body 2450	e'	51.8600	Relative Permittivity (ϵ_r):	51.86	52.70	-1.59	5
		e"	13.8700	Conductivity (σ):	1.89	1.95	-3.10	5
	Body 2410	e'	52.0000	Relative Permittivity (ϵ_r):	52.00	52.76	-1.44	5
		e"	13.6900	Conductivity (σ):	1.83	1.91	-3.83	5
	Body 2475	e'	51.7700	Relative Permittivity (ϵ_r):	51.77	52.67	-1.71	5
		e"	13.9800	Conductivity (σ):	1.92	1.99	-3.08	5
4/27/2015	Body 5180	e'	47.8200	Relative Permittivity (ϵ_r):	47.82	49.05	-2.50	5
		e"	17.7000	Conductivity (σ):	5.10	5.27	-3.29	5
	Body 5200	e'	47.8200	Relative Permittivity (ϵ_r):	47.82	49.02	-2.45	5
		e"	17.7500	Conductivity (σ):	5.13	5.29	-3.07	5
	Body 5600	e'	47.3000	Relative Permittivity (ϵ_r):	47.30	48.48	-2.43	5
		e"	18.0600	Conductivity (σ):	5.62	5.76	-2.39	5
	Body 5800	e'	46.8800	Relative Permittivity (ϵ_r):	46.88	48.20	-2.74	5
		e"	18.2900	Conductivity (σ):	5.90	6.00	-1.69	5
Body 5825	e'	46.9000	Relative Permittivity (ϵ_r):	46.90	48.20	-2.70	5	
	e"	18.3500	Conductivity (σ):	5.94	6.00	-0.94	5	
4/28/2015	Body 5180	e'	48.5100	Relative Permittivity (ϵ_r):	48.51	49.05	-1.09	5
		e"	18.4100	Conductivity (σ):	5.30	5.27	0.59	5
	Body 5200	e'	48.4800	Relative Permittivity (ϵ_r):	48.48	49.02	-1.10	5
		e"	18.4400	Conductivity (σ):	5.33	5.29	0.70	5
	Body 5600	e'	47.8600	Relative Permittivity (ϵ_r):	47.86	48.48	-1.27	5
		e"	18.7600	Conductivity (σ):	5.84	5.76	1.40	5
	Body 5800	e'	47.5800	Relative Permittivity (ϵ_r):	47.58	48.20	-1.29	5
		e"	18.9500	Conductivity (σ):	6.11	6.00	1.86	5
Body 5825	e'	47.5300	Relative Permittivity (ϵ_r):	47.53	48.20	-1.39	5	
	e"	19.0000	Conductivity (σ):	6.15	6.00	2.56	5	
4/30/2015	Body 5180	e'	48.1100	Relative Permittivity (ϵ_r):	48.11	49.05	-1.91	5
		e"	18.2700	Conductivity (σ):	5.26	5.27	-0.17	5
	Body 5200	e'	48.0700	Relative Permittivity (ϵ_r):	48.07	49.02	-1.94	5
		e"	18.2700	Conductivity (σ):	5.28	5.29	-0.23	5
	Body 5600	e'	47.5300	Relative Permittivity (ϵ_r):	47.53	48.48	-1.95	5
		e"	18.6300	Conductivity (σ):	5.80	5.76	0.69	5
	Body 5800	e'	47.2000	Relative Permittivity (ϵ_r):	47.20	48.20	-2.07	5
		e"	18.8700	Conductivity (σ):	6.09	6.00	1.43	5
Body 5825	e'	47.2500	Relative Permittivity (ϵ_r):	47.25	48.20	-1.97	5	
	e"	18.8200	Conductivity (σ):	6.10	6.00	1.59	5	

DASY D Continued

Date	Freq. (MHz)	Liquid Parameters			Measured	Target	Delta (%)	Limit $\pm$ (%)
5/4/2015	Body 5180	e'	47.5300	Relative Permittivity (ϵ_r):	47.53	49.05	-3.09	5
		e"	18.0900	Conductivity (σ):	5.21	5.27	-1.16	5
	Body 5200	e'	47.5200	Relative Permittivity (ϵ_r):	47.52	49.02	-3.06	5
		e"	18.1300	Conductivity (σ):	5.24	5.29	-0.99	5
	Body 5600	e'	47.1900	Relative Permittivity (ϵ_r):	47.19	48.48	-2.66	5
		e"	18.3700	Conductivity (σ):	5.72	5.76	-0.71	5
	Body 5800	e'	46.8200	Relative Permittivity (ϵ_r):	46.82	48.20	-2.86	5
		e"	18.4300	Conductivity (σ):	5.94	6.00	-0.94	5
	Body 5825	e'	46.7800	Relative Permittivity (ϵ_r):	46.78	48.20	-2.95	5
		e"	18.5700	Conductivity (σ):	6.01	6.00	0.24	5

10. System Check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

10.1. Reference Target SAR Values

The reference SAR values can be obtained from the calibration certificate of system validation dipoles

System Dipole	Serial No.	Cal. Date	Freq. (MHz)	Target SAR Values (W/kg)		
				1g/10g	Head	Body
D2450V2	826	2/10/2015	2450	1g	53.3	51.2
				10g	24.8	23.7
D5GHzV2	1072	2/12/2015	5200	1g	78.6	74.1
				10g	22.4	20.7
			5500	1g	83.0	80.4
				10g	83.0	22.3
			5800	1g	79.2	75.0
				10g	22.5	20.6
D5GHzV2	1084	2/12/2015	5200	1g	79.5	74.4
				10g	22.6	20.8
			5500	1g	82.7	80.1
				10g	23.4	22.0
			5800	1g	80.4	74.4
				10g	22.7	20.4

10.2. System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within 10% of the manufacturer calibrated dipole SAR target.

DASY A

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
3/23/2015	D5GHzV2 (5.6GHz)	1084	Body	1g	7.49	74.9	80.1	-6.49	1, 2
				10g	2.07	20.7	22.0	-5.91	
3/23/2015	D5GHzV2 (5.5GHz)	1084	Body	1g	7.73	77.3	80.1	-3.50	
				10g	2.14	21.4	22.0	-2.73	
3/24/2015	D5GHzV2 (5.8GHz)	1084	Body	1g	7.26	72.6	74.4	-2.42	
				10g	2.01	20.1	20.4	-1.47	
5/4/2015	D5GHzV2 (5.2GHz)	1084	Body	1g	7.23	72.3	74.4	-2.82	
				10g	2.00	20.0	20.8	-3.85	
5/4/2015	D5GHzV2 (5.8GHz)	1084	Body	1g	7.05	70.5	74.4	-5.24	
				10g	1.95	19.5	20.4	-4.41	

DASY B

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
3/23/2015	D5GHzV2 (5.2GHz)	1084	Body	1g	7.07	70.7	74.4	-4.97	3, 4
				10g	1.96	19.6	20.8	-5.77	
3/24/2015	D5GHzV2 (5.8GHz)	1084	Body	1g	7.61	76.1	74.4	2.28	
				10g	2.11	21.1	20.8	1.44	
4/27/2015	D5GHzV2 (5.8GHz)	1084	Body	1g	7.62	76.2	74.4	2.42	
				10g	2.10	21.0	20.4	2.94	
4/27/2015	D5GHzV2 (5.2GHz)	1084	Body	1g	7.57	75.7	74.4	1.75	
				10g	2.13	21.3	20.8	2.40	
5/4/2015	D5GHzV2 (5.5GHz)	1084	Body	1g	8.35	83.5	80.1	4.24	
				10g	2.32	23.2	22.0	5.45	
5/4/2015	D5GHzV2 (5.6GHz)	1084	Body	1g	7.88	78.8	80.1	-1.62	
				10g	2.20	22.0	22.0	0.00	
5/6/2015	D5GHzV2 (5.8GHz)	1084	Body	1g	7.35	73.5	74.4	-1.21	
				10g	2.04	20.4	20.4	0.00	

DASY C

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
3/23/2015	D5GHzV2 (5.2GHz)	1072	Body	1g	7.10	71.0	74.1	-4.18	5, 6
				10g	2.00	20.0	20.7	-3.38	
3/25/2015	D2450V2	826	Body	1g	5.24	52.4	51.2	2.34	7, 8
				10g	2.42	24.2	23.7	2.11	
3/30/2015	D2450V2	826	Body	1g	5.21	52.1	51.2	1.76	
				10g	2.39	23.9	23.7	0.84	
4/30/2015	D2450V2	826	Body	1g	5.17	51.7	51.2	0.98	
				10g	2.36	23.6	23.7	-0.42	
5/4/2015	2450GHz	826	Body	1g	5.10	51.0	51.2	-0.39	
				10g	2.32	23.2	23.7	-2.11	

DASY D

Date Tested	System Dipole		T.S. Liquid		Measured Results		Target (Ref. Value)	Delta ±10 %	Plot No.
	Type	Serial #			Zoom Scan to 100 mW	Normalize to 1 W			
3/23/2015	D5GHzV2 (5.6GHz)	1072	Body	1g	7.99	79.9	80.4	-0.62	
				10g	2.20	22.0	22.3	-1.35	
3/23/2015	D5GHzV2 (5.5GHz)	1072	Body	1g	7.82	78.2	80.4	-2.74	
				10g	2.17	21.7	22.3	-2.69	
3/24/2015	D2450V2	826	Body	1g	4.93	49.3	51.2	-3.71	9, 10
				10g	2.26	22.6	23.7	-4.64	
4/27/2015	D5GHzV2 (5.5GHz)	1072	Body	1g	8.07	80.7	80.4	0.37	
				10g	2.23	22.3	22.3	0.00	
4/27/2015	D5GHzV2 (5.6GHz)	1072	Body	1g	8.45	84.5	80.4	5.10	
				10g	2.33	23.3	22.3	4.48	
4/28/2015	D5GHzV2 (5.2GHz)	1072	Body	1g	7.86	78.6	74.1	6.07	
				10g	2.18	21.8	20.7	5.31	
4/30/2015	D5GHzV2 (5.2GHz)	1072	Body	1g	7.15	71.5	74.1	-3.51	
				10g	1.99	19.9	20.7	-3.86	
4/30/2015	D5GHzV2 (5.5GHz)	1072	Body	1g	8.57	85.7	80.4	6.59	11,12
				10g	2.37	23.7	22.3	6.28	
4/30/2015	D5GHzV2 (5.6GHz)	1072	Body	1g	8.53	85.3	80.4	6.09	
				10g	2.36	23.6	22.3	5.83	
5/4/2015	D5GHzV2 (5.2GHz)	1072	Body	1g	7.19	71.9	74.1	-2.97	
				10g	1.98	19.8	20.7	-4.35	
5/4/2015	D5GHzV2 (5.5GHz)	1072	Body	1g	8.10	81.0	80.40	0.75	
				10g	2.24	22.4	22.3	0.45	
5/4/2015	D5GHzV2 (5.6GHz)	1072	Body	1g	8.40	84.0	80.40	4.48	
				10g	2.33	23.3	22.3	4.48	

11. SAR Test Results

SAR Test Reduction criteria are as follows:

Initial Test Position SAR Test Reduction

For both DSSS and OFDM wireless modes, when an Initial Test Configuration is found to require SAR measurements, an Initial Test Position is established for each applicable exposure configuration (Head, Body, etc.) using either:

- Design implementation details from the manufacturer, or
- Investigative results by the test lab, obtained by performing area scans on the Initial Test Configuration for all applicable test positions and identifying the highest measured SAR from the area scan-only measurements.

Complete SAR scans are then performed on the established Initial Test Position on each exposure configuration, using the Initial Test Configuration. When the reported SAR for this Initial Test Position is:

- ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in the exposure configuration and wireless mode combination within the frequency band or aggregated band.
- > 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closest/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.
- For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required test channels are considered.

SAR Test Reduction for OFDM using Initial Test Configuration Procedures

Along with the Initial Test Position test reduction guidelines, the following procedures are also applied to streamline SAR measurement requirements when multiple OFDM configurations are supported:

1. When the reported SAR for the highest output power channel in the Initial Test Configuration is > 0.8 W/kg, SAR measurement is required for the next highest measured output power channel in the Initial Test Configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
2. For Subsequent Test Configurations with output power ≤ 0.5 dB lower than the Initial Test Configuration:
 - No further SAR measurement is required for the exposure condition and frequency band or aggregated band combination in the Subsequent Test Configurations when the reported SAR from the Initial Test Configuration is ≤ 0.8 W/kg.
 - SAR is required in the Subsequent Test Configurations for all conditions in the Initial Test Configuration and subsequent test positions with reported SAR > 0.8 and ≤ 1.2 W/kg, using the following criteria for test channel selection:
 - o The highest measured output channel in the Subsequent Test Configurations, if the measured output power is different among channels.
 - o The channel closest to the center frequency of the larger bandwidth configuration channel- assuming a larger bandwidth configuration was established as the Initial Test Configuration- if the output power measured across the channels in the Subsequent Test Configuration is the same.
 - o SAR measurement for the subsequent highest powered channel in the Subsequent Test Configurations is required only when the reported SAR from the initial measurement in the Subsequent Test Configuration is > 1.2 W/kg.

SAR Test Reduction for OFDM using Initial Test Configuration Procedures (continued)

3. For Subsequent Test Configurations with output power > 0.5 dB lower than the Initial Test Configuration, SAR measurement is not required for exposure condition and frequency band or aggregated band combinations with highest reported SAR ≤ 1.2 W/kg in the Initial Test Configuration measurements.
4. When the highest reported SAR for the Initial Test Configuration is > 1.2 W/kg, the Initial Test Configuration SAR measurement procedure is applied to the Subsequent Test Configuration.
 - The highest output power channel for the initial measurement, as well as the number of potentially required test channels, is determined by the channel bandwidth support in the Subsequent Test Configuration.
 - Additional output power measurements may be required.
 - The test channel reduction threshold for Subsequent Test Configuration is decreased from the usual > 1.2 W/kg to > 0.8 W/kg.
5. Beyond the Subsequent Test Configuration, SAR measurement requirements for the remaining transmission modes are determined by applying the Subsequent Test Configuration in the following manner:
 - Replace Subsequent Test Configuration with Next Subsequent Test Configuration.
 - Replace Initial Test Configuration with Preceding Test Configuration

SAR Test Reduction for Wi-Fi 2.4 GHz

1. 2.4 GHz 802.11b DSSS:
 - When the reported SAR of the highest maximum output channel for the exposure configuration is ≤ 0.8 W/kg, no further testing is required for that exposure configuration for 802.11b DSSS.
 - When the reported SAR is > 0.8 W/kg, SAR is required for the next highest measured output channel in that exposure configuration. When any reported SAR is > 1.2 W/kg, SAR is required for the 3rd channel; i.e., all channels require testing.
2. 2.4 GHz 802.11g/n OFDM:
 - SAR is not required for 802.11g/n OFDM when its specified output power is ≥ 1 dB lower than that specified for 802.11b DSSS and the highest reported SAR for 802.11b DSSS is ≤ 1.2 W/kg.
 - SAR not required for 802.11g/n OFDM when its specified output power is ≤ 0.25 dB higher and < 1 dB lower than that specified 802.11b DSSS and the highest reported SAR for 802.11b DSSS is ≤ 0.8 W/kg.

SAR Test Reduction for Wi-Fi 5 GHz bands

1. 5.15 – 5.25 and 5.25 – 5.35 GHz Bands (UNII Band 1 and UNII Band 2A)
 - With respect to the Initial Test Configuration and Initial Test Position procedures, SAR is initially measured for:
 - o UNII Band 2A, if the output power specified for both bands is the same or higher on UNII Band 2A.
 - o UNII Band 1, if it has the higher specified output power of the two bands.
 - If the highest reported SAR from the initially measured band is:
 - o ≤ 1.2 W/kg, SAR is not required for the remaining band.
 - o > 1.2 W/kg, and the difference in specified output power is ≤ 1 dB, both bands should be tested independently for SAR; otherwise, the Initial Test Configuration and Initial Test Position procedures should be applied.

SAR Test Reduction for Wi-Fi 5 GHz bands (continued)

2. 5.470 – 5.725, 5.725 – 5.825 GHz and 5.725 – 5.850 GHz Bands (UNII Band 2C and UNII 3)
 - If TDWR restriction does not apply:
 - o The channels in the frequency range of 5.60 – 5.65 GHz should be considered for testing.
 - If TWDR restriction does not apply, and the band gap channels between the two bands are supported:
 - o The channels in UNII Band 2C above 5.65 GHz are then grouped with the channels in UNII Band 3.
 - o Evaluation for test requirements is performed independently for each band according to the grouping of channels described above.
 - The Initial Test Configuration and Initial Test Position procedures are then applied independently for each band.
 - o Unlike UNII Band 1 and UNII Band 2A, test reduction or exclusion is not interdependent between UNII Band 2C and UNII Band 3.

11.1. Wi-Fi 2.4 GHz**Vendor A**

Band (GHz)	Mode	No. of Transmitters	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)												Plot No.
					Chain 3		Chain 1		Chain 2		Chain 3				Chain 1				Chain 2				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
2.4 GHz	802.11b	1 Tx	6	2437	17.50	17.50					0.852	0.353	0.852	0.353									
			11	2462	17.50	17.50					0.925	0.387	0.925	0.387									
			6	2437			16.00	16.00							1.170	0.466	1.170	0.466					
			11	2462			16.00	16.00							1.030	0.410	1.030	0.410					
			6	2437					17.25	17.25									0.905	0.348	0.905	0.348	
			11	2462					17.25	17.25									0.766	0.289	0.766	0.289	
		2 Tx CDD	6	2437	17.50	17.50	16.00	16.00			1.070	0.423	1.070	0.423	0.990	0.348	0.990	0.348					
			11	2462	17.50	17.50	16.00	16.00			0.949	0.380	0.949	0.380	0.960	0.386	0.960	0.386					
			6	2437			16.00	16.00	17.25	17.25					1.180	0.460	1.180	0.460	1.080	0.423	1.080	0.423	
			11	2462			16.00	16.00	17.25	17.25					1.170	0.458	1.170	0.458	0.932	0.365	0.932	0.365	
		3 Tx CDD	6	2437	17.50	17.50	16.00	16.00	17.25	17.25	0.957	0.386	0.957	0.386	1.090	0.433	1.090	0.433	1.110	0.439	1.110	0.439	
			11	2462	17.50	17.50	16.00	16.00	17.25	17.25	0.881	0.362	0.881	0.362	1.180	0.467	1.180	0.467	1.040	0.406	1.040	0.406	1
	802.11n	3 Tx TxBF CDD	6	2437	17.50	17.50	16.00	16.00	17.25	17.25	0.900	0.367	0.900	0.367	1.120	0.445	1.120	0.445	1.100	0.420	1.100	0.420	
			10	2457	17.50	17.50	16.00	16.00	17.25	17.25	0.894	0.369	0.894	0.369	1.090	0.429	1.090	0.429	0.953	0.362	0.953	0.362	

Note(s):

- SAR Testing for Chain 3 and Chain 2 MIMO 2x2 configuration case was excluded because the antenna separation distance between Chain 3 and Chain 2 is ≥ 165 mm.

Vendor B

Band (GHz)	Mode	No. of Transmitters	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)												Plot No.
					Chain 3		Chain 1		Chain 2		Chain 3				Chain 1				Chain 2				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
2.4 GHz	802.11b	1 Tx	6	2437	17.50	17.50					0.750	0.320	0.750	0.320									
			6	2437			16.00	16.00							0.994	0.390	0.994	0.390					
			11	2462			16.00	16.00							0.988	0.405	0.988	0.405					
			6	2437					17.25	17.25									0.842	0.325	0.842	0.325	
			11	2462					17.25	17.25									0.703	0.268	0.703	0.268	
		2 Tx CDD	6	2437	17.50	17.50	16.00	16.00			0.971	0.397	0.971	0.397	0.807	0.342	0.807	0.342					
			11	2462	17.50	17.50	16.00	16.00			0.892	0.371	0.892	0.371	0.839	0.354	0.839	0.354					
			6	2437			16.00	16.00	17.25	17.25					1.100	0.448	1.100	0.448	0.884	0.359	0.884	0.359	
			11	2462			16.00	16.00	17.25	17.25					1.070	0.438	1.070	0.438	0.777	0.309	0.777	0.309	
		3 Tx CDD	6	2437	17.50	17.50	16.00	16.00	17.25	17.25	0.840	0.349	0.840	0.349	0.979	0.406	0.979	0.406	0.914	0.377	0.914	0.377	
			11	2462	17.50	17.50	16.00	16.00	17.25	17.25	0.893	0.369	0.893	0.369	1.120	0.443	1.120	0.443	1.040	0.405	1.173	0.405	2
	802.11n	3 Tx TxBF CDD	6	2437	17.50	17.50	16.00	16.00	17.25	17.25	0.807	0.335	0.807	0.335	0.961	0.381	0.961	0.381	1.020	0.407	1.020	0.407	
			10	2457	17.50	17.50	16.00	16.00	17.25	17.25	0.856	0.354	0.856	0.354	1.050	0.417	1.050	0.417	1.060	0.408	1.060	0.408	

Note(s):

- SAR Testing for Chain 3 and Chain 2 MIMO 2x2 configuration case was excluded because the antenna separation distance between Chain 3 and Chain 2 is ≥ 165 mm.

11.2. Wi-Fi 5 GHz**11.2.1. 5.3 GHz Band****Vendor A**

Band (GHz)	Mode	No. of Transmitters	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)												Plot No.	
					Chain 3		Chain 1		Chain 2		Chain 3				Chain 1				Chain 2					
					Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured		Scaled			
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g		
5.3	802.11n	1 Tx HT40	54	5270	18.0	18.0					1.150	0.408	1.150	0.408										
			62	5310	15.0	15.0					0.532	0.182	0.532	0.182										
			54	5270			15.0	15.0							0.960	0.320	0.960	0.320						
			62	5310			15.0	15.0							0.989	0.331	0.989	0.331						
			54	5270					16.5	16.5									1.040	0.294	1.040	0.294		
			62	5310					15.0	15.0									0.738	0.203	0.738	0.203		
		2 Tx HT40	54	5270	18.0	18.0	15.0	15.0			1.100	0.385	1.100	0.385	1.030	0.348	1.030	0.410						
			62	5310	12.5	12.5	12.5	12.5			0.311	0.101	0.311	0.101	0.560	0.183	0.560	0.183						
			54	5270			15.0	15.0	16.5	16.5					0.983	0.326	0.983	0.326	1.040	0.283	1.040	0.283		
			62	5310			12.5	12.5	12.5	12.5					0.606	0.202	0.606	0.202	0.376	0.098	0.376	0.098		
		3 Tx HT40 CDD	54	5270	18.0	18.0	15.0	15.0	16.5	16.5	1.180	0.414	1.180	0.414	0.980	0.327	0.980	0.390	0.996	0.274	0.996	0.274	3	
			62	5310	12.5	12.5	12.5	12.5	12.5	12.5	0.292	0.100	0.292	0.100	0.592	0.197	0.592	0.206	0.401	0.102	0.401	0.102		
	802.11a	3 Tx TxBF CDD	54	5270	16.0	16.0	15.0	15.0	16.0	16.0	0.746	0.254	0.746	0.254	1.040	0.324	1.040	0.363	0.818	0.231	0.818	0.231		
			62	5310	16.0	16.0	15.0	15.0	16.0	16.0	0.785	0.265	0.785	0.265	1.090	0.347	1.090	0.391	0.808	0.210	0.808	0.210		

Note(s):

- SAR Testing for Chain 3 and Chain 2 MIMO 2x2 configuration case was excluded because the antenna separation distance between Chain 3 and Chain 2 is ≥ 165 mm.

Vendor B

Band (GHz)	Mode	No. of Transmitters	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)												Plot No.
					Chain 3		Chain 1		Chain 2		Chain 3				Chain 1				Chain 2				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.3	802.11n	1 Tx HT40	54	5270	18.0	18.0					0.934	0.292	0.934	0.292									
			62	5310	15.0	15.0					0.427	0.132	0.427	0.132									
			54	5270			15.0	15.0							0.859	0.275	0.859	0.275					
			62	5310			15.0	15.0							0.906	0.287	0.906	0.287					
			54	5270					16.5	16.5									0.916	0.274	0.916	0.274	
			62	5310					15.0	15.0									0.682	0.196	0.682	0.196	
		2 Tx HT40	54	5270	18.0	18.0	15.0	15.0			0.955	0.288	0.955	0.288	0.996	0.286	0.996	0.333					
			62	5310	12.5	12.5	12.5	12.5			0.248	0.072	0.248	0.072	0.590	0.169	0.590	0.176					
			54	5270			15.0	15.0	16.5	16.5					0.848	0.276	0.848	0.276	0.950	0.282	0.950	0.322	
			62	5310			12.5	12.5	12.5	12.5					0.574	0.180	0.574	0.180	0.358	0.094	0.358	0.103	
		3 Tx HT40 CDD	54	5270	18.0	18.0	15.0	15.0	16.5	16.5	1.030	0.363	1.030	0.363	0.897	0.294	0.897	0.343	0.899	0.265	0.899	0.304	4
			62	5310	12.5	12.5	12.5	12.5	12.5	12.5	0.260	0.083	0.260	0.083	0.602	0.190	0.602	0.198	0.347	0.094	0.347	0.103	
	802.11a	3 Tx TxBF CDD	54	5270	16.0	16.0	15.0	15.0	16.0	16.0	0.726	0.230	0.726	0.230	0.997	0.308	0.997	0.345	0.737	0.214	0.737	0.251	
			62	5310	16.0	16.0	15.0	15.0	16.0	16.0	0.773	0.243	0.773	0.243	1.030	0.314	1.030	0.355	0.756	0.211	0.756	0.249	

Note(s):

- SAR Testing for Chain 3 and Chain 2 MIMO 2x2 configuration case was excluded because the antenna separation distance between Chain 3 and Chain 2 is ≥ 165 mm.

11.2.2. 5.5 GHz Band**Vendor A**

Band (GHz)	Mode	No. of Transmitters	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)												Plot No.
					Chain 3		Chain 1		Chain 2		Chain 3				Chain 1				Chain 2				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.5	802.11ac	1 Tx VHT80	122	5610	17.5	17.5					0.976	0.306	0.976	0.306									
			138	5690	17.5	17.5							0.920	0.286	0.920	0.286							
			122	5610			15.5	15.5							1.050	0.317	1.050	0.317					
			138	5690			15.5	15.5							1.050	0.309	1.050	0.309					
			122	5610					16.75	16.75									0.722	0.183	0.722	0.183	
		2 Tx VHT80 CDD	122	5610	17.5	17.5	15.5	15.5			0.632	0.194	0.632	0.194	0.666	0.199	0.666	0.199					
			122	5610			15.5	15.5	16.75	16.75					0.740	0.227	0.740	0.227	0.516	0.130	0.516	0.130	
		3 Tx VHT80	122	5610	17.5	17.5	15.5	15.5	16.75	16.75	0.974	0.302	0.974	0.302	1.190	0.376	1.190	0.376	0.857	0.223	0.857	0.223	5
			138	5610	17.5	17.5	15.5	15.5	16.75	16.75	0.938	0.291	0.938	0.291	1.140	0.357	1.140	0.357	0.834	0.208	0.834	0.208	
		3 Tx TxBF VHT80	122	5610	14.75	14.75	14.75	14.75	14.75	14.75	0.315	0.097	0.315	0.097	0.607	0.192	0.607	0.192	0.374	0.099	0.374	0.099	
138	5610		17.5	17.5	15.5	15.5	16.75	16.75	0.871	0.270	0.871	0.270	0.978	0.317	0.978	0.317	0.828	0.226	0.828	0.226			

Note(s):

- SAR Testing for Chain 3 and Chain 2 MIMO 2x2 configuration case was excluded because the antenna separation distance between Chain 3 and Chain 2 is ≥ 165 mm.

5.5 GHz Band Continued

Vendor B

Band (GHz)	Mode	No. of Transmitters	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)												Plot No.
					Chain 3		Chain 1		Chain 2		Chain 3				Chain 1				Chain 2				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.5	802.11ac	1 Tx VHT80	122	5610	17.5	17.5					0.821	0.257	0.821	0.257									
			138	5690	17.5	17.5					0.808	0.250	0.808	0.250									
			122	5610			15.5	15.5							0.902	0.286	0.902	0.286					
			138	5690			15.5	15.5							0.957	0.290	0.957	0.290					
			122	5610					16.75	16.75									0.605	0.173	0.605	0.173	
		2 Tx VHT80 CDD	122	5610	17.5	17.5	15.5	15.5			0.579	0.178	0.579	0.178	0.612	0.182	0.612	0.182					
			122	5610			15.5	15.5	16.75	16.75					0.686	0.212	0.686	0.212	0.347	0.080	0.347	0.080	
		3 Tx VHT80	122	5610	17.5	17.5	15.5	15.5	16.75	16.75	0.856	0.274	0.856	0.274	1.120	0.352	1.120	0.352	0.801	0.227	0.801	0.227	6
			138	5610	17.5	17.5	15.5	15.5	16.75	16.75	0.792	0.249	0.792	0.249	1.020	0.320	1.020	0.320	0.797	0.212	0.797	0.212	
		3 Tx TxBF VHT80	122	5610	14.75	14.75	14.75	14.75	14.75	14.75	0.309	0.094	0.309	0.094	0.575	0.182	0.575	0.182	0.341	0.089	0.341	0.089	
138	5610		17.5	17.5	15.5	15.5	16.75	16.75	0.731	0.230	0.731	0.230	0.954	0.310	0.954	0.310	0.783	0.202	0.783	0.202			

Note(s):

- SAR Testing for Chain 3 and Chain 2 MIMO 2x2 configuration case was excluded because the antenna separation distance between Chain 3 and Chain 2 is ≥ 165 mm.

11.2.3. 5.8 GHz Band**Vendor A**

Band (GHz)	Mode	No. of Transmitters	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)												Plot No.
					Chain 3		Chain 1		Chain 2		Chain 3				Chain 1				Chain 2				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.8	802.11a	1 Tx	157	5785	18.5	18.5					0.760	0.241	0.760	0.241									
			157	5785					18.5	18.5									1.050	0.252	1.050	0.252	
			165	5825					18.5	18.5									1.010	0.240	1.010	0.240	
		2 Tx CDD	157	5785	18.5	18.5	16.5	16.5			0.790	0.257	0.790	0.257	1.010	0.308	1.010	0.308					
			161	5805	18.5	18.5	16.5	16.5			0.797	0.256	0.797	0.256	1.000	0.308	1.000	0.308					
			157	5785			16.5	16.5	18.5	18.5					1.180	0.366	1.180	0.366	1.090	0.267	1.090	0.267	
			161	5805			16.5	16.5	18.5	18.5					1.080	0.344	1.070	0.260	1.090	0.264	1.090	0.264	
		3 Tx CDD	157	5710	18.5	18.5	16.5	16.5	18.5	18.5	1.020	0.324	1.020	0.324	1.190	0.377	1.190	0.377	1.130	0.277	1.130	0.277	7
			161	5805	18.5	18.5	16.5	16.5	18.5	18.5	1.030	0.319	1.030	0.319	1.160	0.369	1.160	0.369	1.080	0.265	1.080	0.265	
		3 Tx TxBF CDD	157	5710	18.5	18.5	16.5	16.5	18.5	18.5	0.758	0.253	0.758	0.253	0.921	0.284	0.921	0.284	1.010	0.247	1.010	0.247	
			161	5805	18.5	18.5	16.5	16.5	18.5	18.5	0.789	0.235	0.789	0.235	0.950	0.293	0.950	0.293	1.030	0.250	1.030	0.250	
	802.11n	1 Tx HT40	151	5755			14.5	14.5							0.573	0.162	0.573	0.162					
			159	5795			16.5	16.5							0.990	0.299	0.990	0.299					

Note(s):

- SAR Testing for Chain 3 and Chain 2 MIMO 2x2 configuration case was excluded because the antenna separation distance between Chain 3 and Chain 2 is ≥ 165 mm.

Vendor B

Band (GHz)	Mode	No. of Transmitters	Ch #.	Freq. (MHz)	Power (dBm)						SAR (W/kg)												Plot No.
					Chain 3		Chain 1		Chain 2		Chain 3				Chain 1				Chain 2				
					Tune-up Limit	Measured	Tune-up Limit	Measured	Tune-up Limit	Measured	Measured		Scaled		Measured		Scaled		Measured		Scaled		
											1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	1-g	10-g	
5.8	802.11a	1 Tx	157	5785	18.5	18.5					0.815	0.256	0.815	0.256									
			165	5825	18.5	18.5					0.839	0.261	0.839	0.261									
			157	5785					18.5	18.5									0.954	0.230	0.954	0.230	
			165	5825					18.5	18.5									0.819	0.196	0.819	0.196	
		2 Tx CDD	157	5785	18.5	18.5	16.5	16.5			0.772	0.245	0.772	0.245	0.985	0.306	0.985	0.306					
			161	5805	18.5	18.5	16.5	16.5			0.789	0.248	0.789	0.248	0.950	0.294	0.325	0.294					
			157	5785			16.5	16.5	18.5	18.5					1.050	0.343	1.050	0.343	0.952	0.237	0.952	0.237	
			161	5805			16.5	16.5	18.5	18.5					1.040	0.335	1.040	0.335	0.896	0.222	0.896	0.222	
		3 Tx CDD	157	5710	18.5	18.5	16.5	16.5	18.5	18.5	0.869	0.276	0.869	0.276	1.060	0.349	1.060	0.349	0.976	0.251	0.976	0.251	
			161	5805	18.5	18.5	16.5	16.5	18.5	18.5	0.905	0.285	0.905	0.285	1.010	0.331	1.010	0.331	0.896	0.228	0.896	0.228	
		3 Tx TxBF CDD	157	5710	18.5	18.5	16.5	16.5	18.5	18.5	0.730	0.233	0.730	0.233	1.040	0.343	1.040	0.343	0.903	0.230	0.903	0.230	
			161	5805	18.5	18.5	16.5	16.5	18.5	18.5	0.733	0.233	0.733	0.233	1.010	0.330	1.010	0.330	0.850	0.213	0.850	0.213	
	802.11n	1 Tx HT40	151	5755			16.5	16.5							0.628	0.190	0.628	0.190					
			159	5795			16.5	16.5							1.070	0.325	1.070	0.325				8	

Note(s):

1. SAR Testing for Chain 3 and Chain 2 MIMO 2x2 configuration case was excluded because the antenna separation distance between Chain 3 and Chain 2 is ≥ 165 mm.

11.3. Bluetooth

Mode	Ch #.	Freq. (MHz)	Power (dBm)		SAR (W/kg)				Plot No.
			Chain 2		Chain 2				
			Tune-up Limit	Measured	Measured		Scaled		
					1-g	10-g	1-g	10-g	
GFSK	39	2441	9.0	8.2	0.089	0.032	0.107	0.039	9

12. SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the **ratio of largest to smallest SAR** for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

12.1. Repeated Measurement Results

Band	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	1-g SAR (W/kg)			1-g SAR (W/kg)			Largest to Smallest SAR Ratio			Note
					Original			Repeated						
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
2.4GHz (DSSS)	802.11b	3 Tx	11	2462	0.881	1.180	1.040	0.875	1.170	1.040	1.01	1.01	1.00	1
Band	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	1-g SAR (W/kg)			1-g SAR (W/kg)			Largest to Smallest SAR Ratio			Note
					Original			Repeated						
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.3GHz (OFDM)	802.11n	3 Tx HT40 CDD	54	5270	1.180	0.980	0.996	1.130	0.959	1.000	1.04	1.02	1.00	1
Band	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	1-g SAR (W/kg)			1-g SAR (W/kg)			Largest to Smallest SAR Ratio			Note
					Original			Repeated						
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.5GHz (OFDM)	802.11ac	3 Tx VHT80 CDD	122	5610	0.974	1.190	0.857	0.933	1.170	0.803	1.04	1.02	1.07	1
Band	Mode	No. of Transmitters	Ch. #	Freq. (MHz)	1-g SAR (W/kg)			1-g SAR (W/kg)			Largest to Smallest SAR Ratio			Note
					Original			Repeated						
					Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	Chain 3	Chain 1	Chain 2	
5.8GHz (OFDM)	802.11a	3 Tx CDD	157	5710	1.020	1.190	1.130	1.000	1.170	1.130	1.02	1.02	1.00	1

Note(s):

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.

13. Simultaneous Transmission SAR Analysis

KDB 447498 D01 General RF Exposure Guidance introduces a new formula for calculating the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / Ri$$

Where:

SAR₁ is the highest measured or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest measured or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$

A new threshold of 0.04 is also introduced in the draft KDB. Thus, in order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / Ri < 0.04$$

Simultaneous Transmission Condition

RF Exposure Condition	Capable Transmit Configurations
Laptop	SISO (1TX) 1. DTS 2.4GHz (Wi-Fi 1) + BT (Wi-Fi 3) 2. DTS 2.4GHz (Wi-Fi 2) + BT (Wi-Fi 3) 3. UNII 5GHz (Wi-Fi 1) + BT (Wi-Fi 3) 4. UNII 5GHz (Wi-Fi 2) + BT (Wi-Fi 3) MIMO (2,3 TX) 1. DTS 2.4 GHz (Wi-Fi 1+ Wi-Fi 2) + BT (Wi-Fi 3) UNII 5GHz(Wi-Fi 1+ Wi-Fi 2) + BT (Wi-Fi 3) UNII 5GHz(Wi-Fi 1+ Wi-Fi 3) + BT (Wi-Fi 3) UNII 5GHz (Wi-Fi 2+ Wi-Fi 3) + BT (Wi-Fi 3)
Notes: 1. Wi-Fi 2.4 GHz Radio on Wi-Fi 3 cannot transmit simultaneously with Bluetooth Radio	

13.1. Sum of the SAR for Wi-Fi DTS Band & BT

RF Exposure condition	Test Position	Simultaneous Transmission Scenario				Σ 1-g SAR (W/kg)	SPLSR (Yes/ No)
		DTS Band			Bluetooth (Chain 2)		
		Chain 3	Chain 1	Chain 1, 2			
Body	Rear	0.925			0.107	1.032	No
			1.170		0.107	1.277	No
				1.180	0.107	1.287	No

13.2. Sum of the SAR for Wi-Fi UNII Bands & BT

RF Exposure condition	Test Position	Simultaneous Transmission Scenario						Σ 1-g SAR (W/kg)	SPLSR (Yes/ No)
		UNII Bands					Bluetooth (Chain 2)		
		Chain 3	Chain 1	Chain 3,1	Chain 1,2	Chain 3,1,2			
Body	Rear	1.150					0.107	1.257	No
			1.070				0.107	1.177	No
				1.100			0.107	1.207	No
					1.180		0.107	1.287	No
						1.190	0.107	1.297	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Appendixes

Refer to separated files for the following appendixes.

A_15U20166v0 SAR Photos

B_15U20166v1 SAR System Check Plots

C_15U20166v1 SAR Highest Test Plots

D_15U20166v0 SAR Tissue Ingredients

E_15U20166v0 SAR Probe Cal. Certificates

F_15U20166v0 SAR Dipole Cal. Certificates

END OF REPORT