

TEST REPORT

EUT Description	WLAN and BT, 2x2 PCIe M.2 1216 SD adapter card
Brand Name	Intel® Wi-Fi 6E AX210
Model Name	AX210D2W
FCC ID	PD9AX210D2
Date of Test Start/End	2020-12-17 /2020-12-18
Features	802.11ax, Dual Band, 2x2 Wi-Fi 6 + Bluetooth® 5.2 (see section 5)

Applicant	Intel Mobile Communications
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Reference Standards	FCC CFR Title 47 Part 15 E (see section 1)
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Test Report identification	200611-04.TR38
Revision Control	Rev. 02 This test report revision replaces any previous test report revision (see section 8)

The test results relate only to the samples tested.

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1. Standards, reference documents and applicable test methods

FCC	1.	FCC Title 47 CFR part 15 – Subpart E – Unlicensed National Information Infrastructure Devices. 2019-10-01 Edition
	2.	FCC Title 47 eCFR part 15 – Subpart E - Unlicensed National Information Infrastructure Devices. 2020-07-30 Online edition
	3.	FCC Title 47 CFR part 15 – Subpart C – §15.209 Radiated emission limits; general requirements. 2019-10-01 Edition
	4.	FCC OET KDB draft 987594 D02 EMC Measurement - U-NII 6 GHz devices operating in the 5.925-7.125 GHz band, August 14, 2020
	5.	FCC OET KDB 987594 Addendum to draft for U-NII 6 GHz devices 5.925-7.125 GHz v01 DR02-44076, September 2, 2020
	6.	FCC OET KDB 789033 D02 v02r01 - General U-NII Test Procedures New Rules – Guidelines for compliance testing of Unlicensed National Information Infrastructure (U-NII) Devices (Part 15, Subpart E)
	7.	FCC OET KDB 662911 D01 v02r01 - Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
	8.	ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

2. General conditions, competences and guarantees

- ✓ Intel Corporation SAS Wireless RF Lab (Intel WRF Lab) is an Accredited Test Firm recognized by the FCC, with Designation Number FR0011.
- ✓ Intel WRF Lab declines any responsibility with respect to the identified information provided by the customer and that may affect the validity of results.
- ✓ Intel WRF Lab only provides testing services and is committed to providing reliable, unbiased test results and interpretations.
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- ✓ Intel WRF Lab has developed calibration and proficiency programs for its measurement equipment to ensure correlated and reliable results to its customers.
- ✓ This report is only referred to the item that has undergone the test.
- ✓ This report does not imply an approval of the product by the Certification Bodies or competent Authorities.
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3. Environmental Conditions

- ✓ At the site where the measurements were performed the following limits were not exceeded during the tests:

Temperature	25°C ± 7°C
Humidity	45% ± 7%

4. Test samples

Sample	Control #	Description	Model	Serial #	Date of receipt	Note
#01	200611-04.S11	WiFi 6E Module	AX210D2W	WFM: BC17B87707EF	2020-09-18	RF Conducted
	180001-01.S18	Adapter	Socket	-	2018-11-22	
	170000-01.S02	Laptop	Latitude E5450	21HTPF2	2017-03-28	
	170524-01.S13	Extender	PCB00495	4955013-032	2017-05-29	
#02	200611-04.S10	WiFi 6E Module	AX210D2W	WFM:BC17B8770880	2020-09-18	RF Conducted – Contention-based protocol
	200611-01.S18	Laptop	Latitude E5450	63W17Y2	2020-12-01	
	180219-01.S18	Adapter	Socket	N/A	2018-03-08	
	180000-01.S12	Extender	PCB00495	4950414-028	2018-11-22	

5. EUT Features

The herein information is provided by the customer

Brand Name	Intel® Wi-Fi 6E AX210					
Model Name	AX210D2W					
Software Version	01465_99_3500_57W					
Driver Version	V0.17.2					
Supported Radios	802.11b/g/n/ax 802.11a/n/ac/ax Bluetooth 5.2 2.4GHz (2400.0 – 2483.5 MHz) 5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5895.0 MHz) 6.0GHz (5925.0 – 7125.0MHz) 2.4GHz (2400.0 – 2483.5 MHz)					
Antenna Information	Transmitter	Ant A (Main) SISO Mode	Ant B(Aux) SISO Mode	Ant A (Main) MIMO Mode	Ant B (Aux) MIMO Mode	
	Manufacturer	Intel	Intel	Intel	Intel	
	PIFA antenna	PIFA antenna	PIFA antenna	PIFA antenna	PIFA antenna	
	SN	NA	NA	NA	NA	
	Declared Antenna gain (dBi)	+5.59	+5.59	+5.59 (Completely uncorrelated)	+5.59 (Completely uncorrelated)	
MIMO mode signal: Completely uncorrelated.						
Document						
	200813_WRF Lab_WiFi 6E_Ref Antenna V3.2- Datasheet_Rev00					2020-08-13
Additional information	The EUT class is a client connected to Low-Power Access point					

6. Remarks and comments

1. Tests were carried out according to the test plan provided to the FCC.
2. Test settings used for UNII-5 to UNII-8 are based on the legacy FCC OET KDB 789033 D02 v02r01 and ANSI C63.10-2013.

7. Test Verdicts summary

The statement of conformity to applicable standards in the table below are based on the measured values, without taking into account the measurement uncertainties.

7.1. 802.11 a/n/ac/ax – U-NII-5 to U-NII-8

FCC part	Test name	Verdict
15.407 (a) (10)	Channel bandwidth	P
15.407 (a) (8)	Power Limits. Maximum output power	P
15.407 (a) (2)	Power spectral density	P
15.407 (b) (5)	Undesirable emissions limits: out of band (conducted)	P
15.407 (b) (6)	In-Band Emissions (Mask)	P
15.407 (d) (6)	Contention based protocol	P

P: Pass

F: Fail

NM: Not Measured

NA: Not Applicable

8. Document Revision History

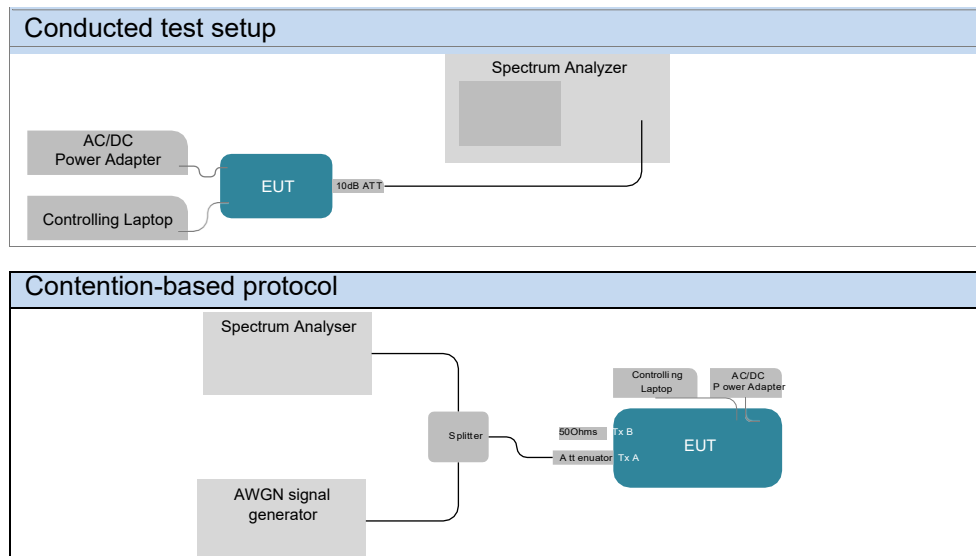
Revision #	Modified by	Revision Details
Rev. 00	C.Requin	First Issue
Rev.01	I.Kharrat	Modification as per FCC comments related to output power calculation for MIMO mode
Rev.02	I.Kharrat	Modification in section 5 and section B.2.2 as per FCC comments related to MIMO mode signal type

Annex A. Test & System Description

A.1 Measurement System

Measurements were performed using these following setup.

The DUT was installed in a test fixture and this test fixture is connected to a laptop computer and AC/DC power adapter. The laptop computer was used to configure the EUT to continuously transmit at a specified output power using all different modes and modulation schemes, using the Intel proprietary tool DRTU.



A.2 Test Equipment List

Conducted setup

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
0316	Spectrum Analyzer	FSV30	103309	Rohde & Schwarz	2019-09-02	2021-09-02
0443	RF cable 100cm	Coax 2.92mm Male To 2.92mm Male	N/A	PASTERNAK	2020-08-26	2021-02-26
1044	10dB Attenuator + MH4	N/A	N/A	N/A	N/A	N/A
0583	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B9D6E	AVTECH	2019-09-06	2021-09-06
1002	Measurement SW v1.4.10.8	Octopi	N/A	Step AT	N/A	N/A

N/A: not applicable

Contention-based protocol

ID#	Device	Type/Model	Serial #	Manufacturer	Cal. Date	Cal. Due Date
0704	Vector signal generator	SMW200A	103732	Rohde & Schwarz	2020-07-20	2022-07-20
0318	Spectrum analyzer	FSV30	103310	Rohde & Schwarz	2020-06-03	2022-06-03
0581	Temp & Humidity Logger	RA12E-TH1-RAS	RA12-B89BE3	Avtech	2020-01-23	2022-01-23
0864	Cable SMA Male to SMA Male 45CM	FMC0202085-18	-	Fairview Microwave	2020-08-27	2021-02-27
0865	Cable SMA Male to SMA Male 45CM	FMC0202085-18	-	Fairview Microwave	2020-08-27	2021-02-27
0868	Cable SMA Male to SMA Male 90CM	FMC0202085-36	1936949	Fairview Microwave	2020-08-27	2021-02-27
1111	RF Power divider	PE2084	N/A	Pasternack	N/A	N/A

A.3 Measurement Uncertainty Evaluation

The system uncertainty evaluation is shown in the table below with a coverage factor of $k = 2$ to indicate a 95% level of confidence:

Measurement type	Uncertainty	Unit
Timing	± 0.12	%
Power Spectral density	± 1.47	dB
Occupied bandwidth	± 2.07	%
Conducted Power	± 1.03	dB
Conducted Spurious Emission <26.5 GHz	± 2.90	dB

Annex B. Test Results

The herein test results were performed by:

Test case measurement	Test Engineer
Power Limits. Maximum output power	Cedric Requin
26dB and 99% Bandwidth measurement	Cedric Requin
Maximum power spectral density	Cedric Requin
Undesirable emissions limits: out of band (conducted)	Cedric Requin
In-Band Emissions Mask	Cedric Requin
Contention-based Protocol	Gregory Roustan

B.1 Test Conditions

For 802.11a mode the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, but not simultaneously.

For 802.11n20 & 802.11ax20 (20 MHz channel bandwidth), 802.11n40 & 802.11ax40 (40MHz channel bandwidth), 802.11ac80 & 802.11ax80 (80MHz channel bandwidth) and 802.11ac160 & 802.11ax160 (160MHz channel bandwidth) modes the EUT can transmit at both CHAIN A and CHAIN B RF outputs individually, and also simultaneously.

The following data rates were selected based on preliminary testing that identified those rates as the worst cases for output power and spurious levels at the band edges:

Transmission	Mode	Bandwidth (MHz)	Worst Case Data Rate
SISO	802.11a	20	6Mbps
	802.11n	20	HT0
		40	HT0
	802.11ac	80	VHT0
		160	VHT0
	802.11ax	20	HE0
		40	HE0
		80	HE0
		160	HE0
MIMO	802.11n	20/40	HT8
	802.11ac	80/160	VHT0
	802.11ax	20/40/80/160	HE0

B.2 Test Results Tables

B.2.1 26dB & 99% Bandwidth

Test limits

Part	Limits
FCC 15.407 (a) (10)	The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

Test procedure

The conducted setup shown in section *Test & System Description* was used to measure the 26dB & 99% bandwidth. The antenna terminal of the EUT is connected to the spectrum analyzer through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

See Annex C.1.1 for the screenshot results¹

Results tables

Max value

Maximum bandwidth value highlighted per mode and channel bandwidth over uninterrupted UNII-5 – 8 bands

¹ Only the worst-case plots per mode and channel bandwidth were reported over uninterrupted UNII-5 – 8 bands

Band	Mode & BW[MHz]	Channel	Frequency [MHz]	Rate	RU config.	Antenna	26dB BW [MHz]	99% BW [MHz]
UNII5	802.11a20	1	5955	6Mbps	na	SISO A	25.30	16.96
UNII5	802.11a20	1	5955	6Mbps	na	SISO B	25.85	16.88
UNII5	802.11a20	45	6175	6Mbps	na	SISO A	25.05	16.88
UNII5	802.11a20	45	6175	6Mbps	na	SISO B	25.05	17.00
UNII5	802.11a20	93	6415	6Mbps	na	SISO A	25.00	16.88
UNII5	802.11a20	93	6415	6Mbps	na	SISO B	25.75	16.92
UNII5	802.11n20	1	5955	HT0	na	SISO A	26.40	17.96
UNII5	802.11n20	1	5955	HT0	na	SISO B	25.50	17.96
UNII5	802.11n20	1	5955	HT8	na	MIMO A	25.75	17.88
UNII5	802.11n20	1	5955	HT8	na	MIMO B	25.60	18.00
UNII5	802.11n20	45	6175	HT0	na	SISO A	25.60	17.96
UNII5	802.11n20	45	6175	HT0	na	SISO B	25.80	18.00
UNII5	802.11n20	45	6175	HT8	na	MIMO A	26.55	17.96
UNII5	802.11n20	45	6175	HT8	na	MIMO B	25.85	17.96
UNII5	802.11n20	93	6415	HT0	na	SISO A	25.85	17.96
UNII5	802.11n20	93	6415	HT0	na	SISO B	25.60	18.16
UNII5	802.11n20	93	6415	HT8	na	MIMO A	26.05	18.08
UNII5	802.11n20	93	6415	HT8	na	MIMO B	26.10	18.12
UNII5	802.11n40	3	5965	HT0	na	SISO A	45.21	36.40
UNII5	802.11n40	3	5965	HT0	na	SISO B	45.32	36.40
UNII5	802.11n40	3	5965	HT8	na	MIMO A	44.99	36.56
UNII5	802.11n40	3	5965	HT8	na	MIMO B	44.66	36.48
UNII5	802.11n40	43	6165	HT0	na	SISO A	45.65	36.56
UNII5	802.11n40	43	6165	HT0	na	SISO B	45.54	36.48
UNII5	802.11n40	43	6165	HT8	na	MIMO A	45.43	36.40
UNII5	802.11n40	43	6165	HT8	na	MIMO B	44.88	36.40
UNII5	802.11n40	91	6405	HT0	na	SISO A	45.21	36.64
UNII5	802.11n40	91	6405	HT0	na	SISO B	45.10	36.40
UNII5	802.11n40	91	6405	HT8	na	MIMO A	45.54	36.48
UNII5	802.11n40	91	6405	HT8	na	MIMO B	44.11	36.40
UNII5	802.11ac80	7	5985	VHT0	na	SISO A	91.20	76.08
UNII5	802.11ac80	7	5985	VHT0	na	SISO B	88.92	75.96
UNII5	802.11ac80	7	5985	VHT0	na	MIMO A	89.87	76.08
UNII5	802.11ac80	7	5985	VHT0	na	MIMO B	90.25	75.96
UNII5	802.11ac80	39	6145	VHT0	na	SISO A	89.68	75.96
UNII5	802.11ac80	39	6145	VHT0	na	SISO B	90.06	75.96
UNII5	802.11ac80	39	6145	VHT0	na	MIMO A	90.06	75.96
UNII5	802.11ac80	39	6145	VHT0	na	MIMO B	88.73	75.96
UNII5	802.11ac80	87	6385	VHT0	na	SISO A	88.54	75.96
UNII5	802.11ac80	87	6385	VHT0	na	SISO B	90.25	75.96
UNII5	802.11ac80	87	6385	VHT0	na	MIMO A	89.30	75.96
UNII5	802.11ac80	87	6385	VHT0	na	MIMO B	88.54	75.84
UNII5	802.11ac160	15	6025	VHT0	na	SISO A	166.98	155.25
UNII5	802.11ac160	15	6025	VHT0	na	SISO B	166.98	155.25
UNII5	802.11ac160	15	6025	VHT0	na	MIMO A	168.96	155.25
UNII5	802.11ac160	15	6025	VHT0	na	MIMO B	167.31	155.25
UNII5	802.11ac160	79	6345	VHT0	na	SISO A	166.98	155.25
UNII5	802.11ac160	79	6345	VHT0	na	SISO B	167.64	155.25
UNII5	802.11ac160	79	6345	VHT0	na	MIMO A	167.31	155.00
UNII5	802.11ac160	79	6345	VHT0	na	MIMO B	166.98	155.00
UNII5	802.11ax20	1	5955	HE0	FullBW	SISO A	25.25	19.08
UNII5	802.11ax20	1	5955	HE0	FullBW	SISO B	25.85	19.04
UNII5	802.11ax20	1	5955	HE0	FullBW	MIMO A	25.75	19.20
UNII5	802.11ax20	1	5955	HE0	FullBW	MIMO B	25.65	19.04
UNII5	802.11ax20	45	6175	HE0	FullBW	SISO A	24.85	19.08
UNII5	802.11ax20	45	6175	HE0	FullBW	SISO B	25.75	19.12
UNII5	802.11ax20	45	6175	HE0	FullBW	MIMO A	25.00	19.16
UNII5	802.11ax20	45	6175	HE0	FullBW	MIMO B	24.75	19.08
UNII5	802.11ax20	93	6415	HE0	FullBW	SISO A	25.90	19.08
UNII5	802.11ax20	93	6415	HE0	FullBW	SISO B	25.90	19.08

UNII5	802.11ax20	93	6415	HE0	FullBW	MIMO A	24.80	19.08
UNII5	802.11ax20	93	6415	HE0	FullBW	MIMO B	25.70	19.08
UNII5	802.11ax40	3	5965	HE0	FullBW	SISO A	44.88	37.84
UNII5	802.11ax40	3	5965	HE0	FullBW	SISO B	44.55	37.84
UNII5	802.11ax40	3	5965	HE0	FullBW	MIMO A	43.89	37.84
UNII5	802.11ax40	3	5965	HE0	FullBW	MIMO B	43.67	37.92
UNII5	802.11ax40	43	6165	HE0	FullBW	SISO A	44.66	38.00
UNII5	802.11ax40	43	6165	HE0	FullBW	SISO B	45.10	37.92
UNII5	802.11ax40	43	6165	HE0	FullBW	MIMO A	43.78	37.92
UNII5	802.11ax40	43	6165	HE0	FullBW	MIMO B	45.10	37.92
UNII5	802.11ax40	91	6405	HE0	FullBW	SISO A	44.55	37.92
UNII5	802.11ax40	91	6405	HE0	FullBW	SISO B	43.89	37.92
UNII5	802.11ax40	91	6405	HE0	FullBW	MIMO A	44.55	38.08
UNII5	802.11ax40	91	6405	HE0	FullBW	MIMO B	45.98	37.84
UNII5	802.11ax80	7	5985	HE0	FullBW	SISO A	84.93	77.52
UNII5	802.11ax80	7	5985	HE0	FullBW	SISO B	85.50	77.64
UNII5	802.11ax80	7	5985	HE0	FullBW	MIMO A	86.83	77.52
UNII5	802.11ax80	7	5985	HE0	FullBW	MIMO B	85.88	77.40
UNII5	802.11ax80	39	6145	HE0	FullBW	SISO A	84.93	77.40
UNII5	802.11ax80	39	6145	HE0	FullBW	SISO B	86.45	77.52
UNII5	802.11ax80	39	6145	HE0	FullBW	MIMO A	85.69	77.52
UNII5	802.11ax80	39	6145	HE0	FullBW	MIMO B	86.26	77.40
UNII5	802.11ax80	87	6385	HE0	FullBW	SISO A	86.26	77.52
UNII5	802.11ax80	87	6385	HE0	FullBW	SISO B	85.50	77.52
UNII5	802.11ax80	87	6385	HE0	FullBW	MIMO A	86.26	77.40
UNII5	802.11ax80	87	6385	HE0	FullBW	MIMO B	86.45	77.52
UNII5	802.11ax160	15	6025	HE0	FullBW	SISO A	167.97	156.75
UNII5	802.11ax160	15	6025	HE0	FullBW	SISO B	166.65	157.25
UNII5	802.11ax160	15	6025	HE0	FullBW	MIMO A	166.65	156.75
UNII5	802.11ax160	15	6025	HE0	FullBW	MIMO B	166.65	157.00
UNII5	802.11ax160	79	6345	HE0	FullBW	SISO A	166.32	156.75
UNII5	802.11ax160	79	6345	HE0	FullBW	SISO B	167.97	156.75
UNII5	802.11ax160	79	6345	HE0	FullBW	MIMO A	168.63	156.50
UNII5	802.11ax160	79	6345	HE0	FullBW	MIMO B	167.31	156.75

Band	Mode & BW[MHz]	Channel	Frequency [MHz]	Rate	RU config.	Antenna	26dB BW [MHz]	99% BW [MHz]
UNII6	802.11a20	97	6435	6Mbps	NA	SISO A	25.25	16.92
UNII6	802.11a20	97	6435	6Mbps	NA	SISO B	25.70	16.80
UNII6	802.11a20	105	6475	6Mbps	NA	SISO A	25.45	16.76
UNII6	802.11a20	105	6475	6Mbps	NA	SISO B	25.75	16.96
UNII6	802.11a20	113	6515	6Mbps	NA	SISO A	25.45	16.84
UNII6	802.11a20	113	6515	6Mbps	NA	SISO B	25.40	17.04
UNII6	802.11n20	97	6435	HT0	NA	SISO A	26.15	18.04
UNII6	802.11n20	97	6435	HT0	NA	SISO B	25.90	17.96
UNII6	802.11n20	97	6435	HT8	NA	MIMO A	26.10	18.04
UNII6	802.11n20	97	6435	HT8	NA	MIMO B	25.80	18.00
UNII6	802.11n20	105	6475	HT0	NA	SISO A	25.40	18.08
UNII6	802.11n20	105	6475	HT0	NA	SISO B	25.80	17.92
UNII6	802.11n20	105	6475	HT8	NA	MIMO A	26.10	17.96
UNII6	802.11n20	105	6475	HT8	NA	MIMO B	25.55	17.96
UNII6	802.11n20	113	6515	HT0	NA	SISO A	25.80	17.88
UNII6	802.11n20	113	6515	HT0	NA	SISO B	25.80	18.00
UNII6	802.11n20	113	6515	HT8	NA	MIMO A	26.60	18.00
UNII6	802.11n20	113	6515	HT8	NA	MIMO B	26.20	18.08
UNII6	802.11n40	99	6445	HT0	NA	SISO A	45.54	36.48
UNII6	802.11n40	99	6445	HT0	NA	SISO B	45.32	36.48
UNII6	802.11n40	99	6445	HT8	NA	MIMO A	45.87	36.32
UNII6	802.11n40	99	6445	HT8	NA	MIMO B	44.33	36.40
UNII6	802.11n40	107	6485	HT0	NA	SISO A	44.88	36.40
UNII6	802.11n40	107	6485	HT0	NA	SISO B	45.10	36.48
UNII6	802.11n40	107	6485	HT8	NA	MIMO A	45.54	36.48
UNII6	802.11n40	107	6485	HT8	NA	MIMO B	43.56	36.40
UNII6	802.11ac80	103	6465	VHT0	NA	SISO A	88.73	75.96
UNII6	802.11ac80	103	6465	VHT0	NA	SISO B	88.16	75.96
UNII6	802.11ac80	103	6465	VHT0	NA	MIMO A	90.25	75.96
UNII6	802.11ac80	103	6465	VHT0	NA	MIMO B	90.63	75.96
UNII6	802.11ac80	119	6545	VHT0	NA	SISO A	89.49	75.96
UNII6	802.11ac80	119	6545	VHT0	NA	SISO B	90.82	75.96
UNII6	802.11ac80	119	6545	VHT0	NA	MIMO A	89.87	75.96
UNII6	802.11ac80	119	6545	VHT0	NA	MIMO B	89.49	75.84
UNII6	802.11ac160	111	6505	VHT0	NA	SISO A	167.64	155.25
UNII6	802.11ac160	111	6505	VHT0	NA	SISO B	166.98	155.23
UNII6	802.11ac160	111	6505	VHT0	NA	MIMO A	167.97	155.25
UNII6	802.11ac160	111	6505	VHT0	NA	MIMO B	166.65	155.00
UNII6	802.11ax20	97	6435	HE0	FullBW	SISO A	25.40	19.04
UNII6	802.11ax20	97	6435	HE0	FullBW	SISO B	25.45	19.12
UNII6	802.11ax20	97	6435	HE0	FullBW	MIMO A	25.55	19.12
UNII6	802.11ax20	97	6435	HE0	FullBW	MIMO B	25.05	19.08
UNII6	802.11ax20	105	6475	HE0	FullBW	SISO A	25.10	19.08
UNII6	802.11ax20	105	6475	HE0	FullBW	SISO B	25.75	19.04
UNII6	802.11ax20	105	6475	HE0	FullBW	MIMO A	25.15	19.08
UNII6	802.11ax20	105	6475	HE0	FullBW	MIMO B	25.00	19.20
UNII6	802.11ax20	113	6515	HE0	FullBW	SISO A	25.70	19.04
UNII6	802.11ax20	113	6515	HE0	FullBW	SISO B	24.80	19.04
UNII6	802.11ax20	113	6515	HE0	FullBW	MIMO A	25.70	19.08
UNII6	802.11ax20	113	6515	HE0	FullBW	MIMO B	25.40	19.04
UNII6	802.11ax40	99	6445	HE0	FullBW	SISO A	44.22	37.92
UNII6	802.11ax40	99	6445	HE0	FullBW	SISO B	44.99	37.92
UNII6	802.11ax40	99	6445	HE0	FullBW	MIMO A	44.99	37.92
UNII6	802.11ax40	99	6445	HE0	FullBW	MIMO B	44.88	37.92
UNII6	802.11ax40	107	6485	HE0	FullBW	SISO A	43.56	38.00
UNII6	802.11ax40	107	6485	HE0	FullBW	SISO B	44.77	37.92
UNII6	802.11ax40	107	6485	HE0	FullBW	MIMO A	44.77	37.92
UNII6	802.11ax40	107	6485	HE0	FullBW	MIMO B	43.56	37.84
UNII6	802.11ax80	103	6465	HE0	FullBW	SISO A	84.74	77.64
UNII6	802.11ax80	103	6465	HE0	FullBW	SISO B	85.50	77.64

UNII6	802.11ax80	103	6465	HE0	FullBW	MIMO A	85.69	77.52
UNII6	802.11ax80	103	6465	HE0	FullBW	MIMO B	85.69	77.40
UNII6	802.11ax80	119	6545	HE0	FullBW	SISO A	86.07	77.52
UNII6	802.11ax80	119	6545	HE0	FullBW	SISO B	87.02	77.52
UNII6	802.11ax80	119	6545	HE0	FullBW	MIMO A	86.45	77.52
UNII6	802.11ax80	119	6545	HE0	FullBW	MIMO B	85.50	77.40
UNII6	802.11ax160	111	6505	HE0	FullBW	SISO A	166.98	156.75
UNII6	802.11ax160	111	6505	HE0	FullBW	SISO B	167.31	156.75
UNII6	802.11ax160	111	6505	HE0	FullBW	MIMO A	166.98	156.75
UNII6	802.11ax160	111	6505	HE0	FullBW	MIMO B	166.65	156.75

Band	Mode & BW[MHz]	Channel	Frequency [MHz]	Rate	RU config.	Antenna	26dB BW [MHz]	99% BW [MHz]
UNII7	802.11a20	117	6535	6Mbps	NA	SISO A	25.25	16.84
UNII7	802.11a20	117	6535	6Mbps	NA	SISO B	25.65	17.04
UNII7	802.11a20	149	6695	6Mbps	NA	SISO A	24.85	17.28
UNII7	802.11a20	149	6695	6Mbps	NA	SISO B	25.55	16.96
UNII7	802.11a20	181	6855	6Mbps	NA	SISO A	25.40	17.04
UNII7	802.11a20	181	6855	6Mbps	NA	SISO B	25.45	17.04
UNII7	802.11n20	117	6535	HT0	NA	SISO A	26.15	18.00
UNII7	802.11n20	117	6535	HT0	NA	SISO B	25.85	18.04
UNII7	802.11n20	117	6535	HT8	NA	MIMO A	26.35	18.08
UNII7	802.11n20	117	6535	HT8	NA	MIMO B	25.95	18.00
UNII7	802.11n20	149	6695	HT0	NA	SISO A	26.15	18.08
UNII7	802.11n20	149	6695	HT0	NA	SISO B	26.40	18.04
UNII7	802.11n20	149	6695	HT8	NA	MIMO A	26.45	18.00
UNII7	802.11n20	149	6695	HT8	NA	MIMO B	25.30	18.04
UNII7	802.11n20	181	6855	HT0	NA	SISO A	25.70	18.00
UNII7	802.11n20	181	6855	HT0	NA	SISO B	25.40	18.04
UNII7	802.11n20	181	6855	HT8	NA	MIMO A	26.05	18.08
UNII7	802.11n20	181	6855	HT8	NA	MIMO B	26.00	18.04
UNII7	802.11n40	115	6525	HT0	NA	SISO A	45.43	36.40
UNII7	802.11n40	115	6525	HT0	NA	SISO B	44.66	36.48
UNII7	802.11n40	115	6525	HT8	NA	MIMO A	45.21	36.32
UNII7	802.11n40	115	6525	HT8	NA	MIMO B	44.33	36.48
UNII7	802.11n40	147	6685	HT0	NA	SISO A	45.54	36.40
UNII7	802.11n40	147	6685	HT0	NA	SISO B	45.87	36.56
UNII7	802.11n40	147	6685	HT8	NA	MIMO A	45.76	36.56
UNII7	802.11n40	147	6685	HT8	NA	MIMO B	44.22	36.48
UNII7	802.11n40	179	6845	HT0	NA	SISO A	45.21	36.64
UNII7	802.11n40	179	6845	HT0	NA	SISO B	45.43	36.56
UNII7	802.11n40	179	6845	HT8	NA	MIMO A	46.42	36.48
UNII7	802.11n40	179	6845	HT8	NA	MIMO B	44.66	36.48
UNII7	802.11ac80	135	6625	VHT0	NA	SISO A	88.73	75.96
UNII7	802.11ac80	135	6625	VHT0	NA	SISO B	89.30	75.96
UNII7	802.11ac80	135	6625	VHT0	NA	MIMO A	90.82	75.96
UNII7	802.11ac80	135	6625	VHT0	NA	MIMO B	89.11	75.96
UNII7	802.11ac80	167	6785	VHT0	NA	SISO A	88.54	75.96
UNII7	802.11ac80	167	6785	VHT0	NA	SISO B	90.82	76.08
UNII7	802.11ac80	167	6785	VHT0	NA	MIMO A	91.01	75.96
UNII7	802.11ac80	167	6785	VHT0	NA	MIMO B	91.01	75.96
UNII7	802.11ac160	143	6665	VHT0	NA	SISO A	167.64	155.25
UNII7	802.11ac160	143	6665	VHT0	NA	SISO B	167.64	155.25
UNII7	802.11ac160	143	6665	VHT0	NA	MIMO A	167.97	155.25
UNII7	802.11ac160	143	6665	VHT0	NA	MIMO B	167.31	155.00
UNII7	802.11ax20	117	6535	HE0	FullBW	SISO A	26.05	19.12
UNII7	802.11ax20	117	6535	HE0	FullBW	SISO B	25.00	19.16
UNII7	802.11ax20	117	6535	HE0	FullBW	MIMO A	25.25	19.04
UNII7	802.11ax20	117	6535	HE0	FullBW	MIMO B	24.55	19.12
UNII7	802.11ax20	149	6695	HE0	FullBW	SISO A	25.65	19.04
UNII7	802.11ax20	149	6695	HE0	FullBW	SISO B	25.35	19.12
UNII7	802.11ax20	149	6695	HE0	FullBW	MIMO A	25.35	19.12
UNII7	802.11ax20	149	6695	HE0	FullBW	MIMO B	25.10	19.16
UNII7	802.11ax20	181	6855	HE0	FullBW	SISO A	25.00	19.08
UNII7	802.11ax20	181	6855	HE0	FullBW	SISO B	25.00	19.04
UNII7	802.11ax20	181	6855	HE0	FullBW	MIMO A	25.35	19.12
UNII7	802.11ax20	181	6855	HE0	FullBW	MIMO B	24.85	19.04
UNII7	802.11ax40	115	6525	HE0	FullBW	SISO A	43.89	38.00
UNII7	802.11ax40	115	6525	HE0	FullBW	SISO B	44.33	37.92
UNII7	802.11ax40	115	6525	HE0	FullBW	MIMO A	45.21	37.92
UNII7	802.11ax40	115	6525	HE0	FullBW	MIMO B	44.55	37.76
UNII7	802.11ax40	147	6685	HE0	FullBW	SISO A	43.78	38.00
UNII7	802.11ax40	147	6685	HE0	FullBW	SISO B	44.44	37.84

UNII7	802.11ax40	147	6685	HE0	FullBW	MIMO A	44.77	37.92
UNII7	802.11ax40	147	6685	HE0	FullBW	MIMO B	44.66	37.76
UNII7	802.11ax40	179	6845	HE0	FullBW	SISO A	44.00	37.84
UNII7	802.11ax40	179	6845	HE0	FullBW	SISO B	44.00	37.68
UNII7	802.11ax40	179	6845	HE0	FullBW	MIMO A	44.11	38.00
UNII7	802.11ax40	179	6845	HE0	FullBW	MIMO B	44.77	38.00
UNII7	802.11ax80	135	6625	HE0	FullBW	SISO A	85.50	77.52
UNII7	802.11ax80	135	6625	HE0	FullBW	SISO B	86.07	77.64
UNII7	802.11ax80	135	6625	HE0	FullBW	MIMO A	87.97	77.52
UNII7	802.11ax80	135	6625	HE0	FullBW	MIMO B	85.88	77.52
UNII7	802.11ax80	167	6785	HE0	FullBW	SISO A	86.45	77.64
UNII7	802.11ax80	167	6785	HE0	FullBW	SISO B	86.26	77.40
UNII7	802.11ax80	167	6785	HE0	FullBW	MIMO A	86.26	77.52
UNII7	802.11ax80	167	6785	HE0	FullBW	MIMO B	87.40	77.52
UNII7	802.11ax160	143	6665	HE0	FullBW	SISO A	167.31	156.75
UNII7	802.11ax160	143	6665	HE0	FullBW	SISO B	167.31	156.87
UNII7	802.11ax160	143	6665	HE0	FullBW	MIMO A	166.98	156.75
UNII7	802.11ax160	143	6665	HE0	FullBW	MIMO B	166.98	157.00

Band	Mode & BW[MHz]	Channel	Frequency [MHz]	Rate	RU config.	Antenna	26dB BW [MHz]	99% BW [MHz]
UNII8	802.11a20	185	6875	6Mbps	NA	SISO A	25.10	16.84
UNII8	802.11a20	185	6875	6Mbps	NA	SISO B	25.45	16.84
UNII8	802.11a20	209	6995	6Mbps	NA	SISO A	25.45	16.92
UNII8	802.11a20	209	6995	6Mbps	NA	SISO B	25.50	16.96
UNII8	802.11a20	229	7095	6Mbps	NA	SISO A	25.00	16.92
UNII8	802.11a20	229	7095	6Mbps	NA	SISO B	25.50	16.84
UNII8	802.11a20	233	7115	6Mbps	NA	SISO A	25.00	16.88
UNII8	802.11a20	233	7115	6Mbps	NA	SISO B	25.05	16.88
UNII8	802.11n20	185	6875	HT0	NA	SISO A	26.10	18.04
UNII8	802.11n20	185	6875	HT0	NA	SISO B	25.95	18.00
UNII8	802.11n20	185	6875	HT8	NA	MIMO A	25.75	18.04
UNII8	802.11n20	185	6875	HT8	NA	MIMO B	25.50	18.08
UNII8	802.11n20	209	6995	HT0	NA	SISO A	25.60	18.00
UNII8	802.11n20	209	6995	HT0	NA	SISO B	25.90	17.92
UNII8	802.11n20	209	6995	HT8	NA	MIMO A	25.90	18.00
UNII8	802.11n20	209	6995	HT8	NA	MIMO B	25.20	18.00
UNII8	802.11n20	229	7095	HT0	NA	SISO A	26.05	17.96
UNII8	802.11n20	229	7095	HT0	NA	SISO B	25.35	18.00
UNII8	802.11n20	229	7095	HT8	NA	MIMO A	25.60	17.96
UNII8	802.11n20	229	7095	HT8	NA	MIMO B	25.25	18.04
UNII8	802.11n20	233	7115	HT0	NA	SISO A	25.40	17.96
UNII8	802.11n20	233	7115	HT0	NA	SISO B	25.25	18.00
UNII8	802.11n20	233	7115	HT8	NA	MIMO A	25.60	18.00
UNII8	802.11n20	233	7115	HT8	NA	MIMO B	25.10	18.00
UNII8	802.11n40	187	6885	HT0	NA	SISO A	44.77	36.56
UNII8	802.11n40	187	6885	HT0	NA	SISO B	45.21	36.48
UNII8	802.11n40	187	6885	HT8	NA	MIMO A	45.10	36.48
UNII8	802.11n40	187	6885	HT8	NA	MIMO B	43.67	36.48
UNII8	802.11n40	227	7085	HT0	NA	SISO A	45.32	36.64
UNII8	802.11n40	227	7085	HT0	NA	SISO B	45.32	36.56
UNII8	802.11n40	227	7085	HT8	NA	MIMO A	45.32	36.56
UNII8	802.11n40	227	7085	HT8	NA	MIMO B	43.12	36.32
UNII8	802.11ac80	183	6885	VHT0	NA	SISO A	89.30	75.96
UNII8	802.11ac80	183	6885	VHT0	NA	SISO B	88.54	75.96
UNII8	802.11ac80	183	6885	VHT0	NA	MIMO A	91.39	75.96
UNII8	802.11ac80	183	6885	VHT0	NA	MIMO B	88.16	75.96
UNII8	802.11ac80	199	6945	VHT0	NA	SISO A	89.11	75.96
UNII8	802.11ac80	199	6945	VHT0	NA	SISO B	89.68	75.96
UNII8	802.11ac80	199	6945	VHT0	NA	MIMO A	89.87	75.96
UNII8	802.11ac80	199	6945	VHT0	NA	MIMO B	89.49	75.96
UNII8	802.11ac80	215	7025	VHT0	NA	SISO A	89.87	75.96
UNII8	802.11ac80	215	7025	VHT0	NA	SISO B	89.49	75.84
UNII8	802.11ac80	215	7025	VHT0	NA	MIMO A	90.06	75.84
UNII8	802.11ac80	215	7025	VHT0	NA	MIMO B	88.35	75.84
UNII8	802.11ac160	207	6985	VHT0	NA	SISO A	167.64	155.25
UNII8	802.11ac160	207	6985	VHT0	NA	SISO B	167.31	155.25
UNII8	802.11ac160	207	6985	VHT0	NA	MIMO A	168.96	155.25
UNII8	802.11ac160	207	6985	VHT0	NA	MIMO B	167.97	155.25
UNII8	802.11ax20	185	6875	HE0	FullBW	SISO A	25.40	19.12
UNII8	802.11ax20	185	6875	HE0	FullBW	SISO B	25.15	19.08
UNII8	802.11ax20	185	6875	HE0	FullBW	MIMO A	25.80	19.12
UNII8	802.11ax20	185	6875	HE0	FullBW	MIMO B	25.15	19.20
UNII8	802.11ax20	209	6995	HE0	FullBW	SISO A	25.00	19.12
UNII8	802.11ax20	209	6995	HE0	FullBW	SISO B	25.85	19.04
UNII8	802.11ax20	209	6995	HE0	FullBW	MIMO A	25.50	19.04
UNII8	802.11ax20	209	6995	HE0	FullBW	MIMO B	24.80	19.04
UNII8	802.11ax20	229	7095	HE0	FullBW	SISO A	24.95	19.04
UNII8	802.11ax20	229	7095	HE0	FullBW	SISO B	25.20	19.04
UNII8	802.11ax20	229	7095	HE0	FullBW	MIMO A	24.85	19.04
UNII8	802.11ax20	229	7095	HE0	FullBW	MIMO B	25.45	19.04

UNII8	802.11ax20	233	7115	HE0	FullBW	SISO A	24.90	19.04
UNII8	802.11ax20	233	7115	HE0	FullBW	SISO B	25.50	19.08
UNII8	802.11ax20	233	7115	HE0	FullBW	MIMO A	25.55	19.08
UNII8	802.11ax20	233	7115	HE0	FullBW	MIMO B	24.45	19.04
UNII8	802.11ax40	187	6885	HE0	FullBW	SISO A	44.11	38.00
UNII8	802.11ax40	187	6885	HE0	FullBW	SISO B	43.78	37.84
UNII8	802.11ax40	187	6885	HE0	FullBW	MIMO A	44.55	37.92
UNII8	802.11ax40	187	6885	HE0	FullBW	MIMO B	45.98	37.84
UNII8	802.11ax40	227	7085	HE0	FullBW	SISO A	44.44	37.92
UNII8	802.11ax40	227	7085	HE0	FullBW	SISO B	43.89	38.00
UNII8	802.11ax40	227	7085	HE0	FullBW	MIMO A	43.34	37.84
UNII8	802.11ax40	227	7085	HE0	FullBW	MIMO B	44.88	38.00
UNII8	802.11ax80	183	6865	HE0	FullBW	SISO A	85.88	77.52
UNII8	802.11ax80	183	6865	HE0	FullBW	SISO B	85.69	77.40
UNII8	802.11ax80	183	6865	HE0	FullBW	MIMO A	86.64	77.40
UNII8	802.11ax80	183	6865	HE0	FullBW	MIMO B	86.26	77.40
UNII8	802.11ax80	199	6945	HE0	FullBW	SISO A	85.31	77.52
UNII8	802.11ax80	199	6945	HE0	FullBW	SISO B	85.69	77.52
UNII8	802.11ax80	199	6945	HE0	FullBW	MIMO A	85.69	77.40
UNII8	802.11ax80	199	6945	HE0	FullBW	MIMO B	85.50	77.40
UNII8	802.11ax80	215	7025	HE0	FullBW	SISO A	85.50	77.52
UNII8	802.11ax80	215	7025	HE0	FullBW	SISO B	85.31	77.52
UNII8	802.11ax80	215	7025	HE0	FullBW	MIMO A	86.07	77.40
UNII8	802.11ax80	215	7025	HE0	FullBW	MIMO B	84.93	77.28
UNII8	802.11ax160	207	6985	HE0	FullBW	SISO A	167.64	156.75
UNII8	802.11ax160	207	6985	HE0	FullBW	SISO B	166.65	156.75
UNII8	802.11ax160	207	6985	HE0	FullBW	MIMO A	166.65	156.75
UNII8	802.11ax160	207	6985	HE0	FullBW	MIMO B	166.98	156.75

B.2.2 Power Limits. Maximum Output power & Maximum power spectral Density

Test limits

Part	Limits
FCC 15.407 (a) (8)	For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm.

Test procedure

The Maximum Conducted Output Power was measured using the channel integration method over the entire 99% occupied bandwidth according to section E) 2) d) (Method SA-2) of KDB 789033

The maximum power spectral density (PSD) was measured using the method according to section F) (Method SA-2) of KDB 789033

In the *measure-and-sum* approach for MIMO mode, the conducted emission level (e.g., transmit power or power in specified bandwidth) is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically in linear power units to determine the total emission level from the device. When MIMO mode is running each single antenna conducted output power is reduced by 3dBi such that MIMO mode does not exceed the output of a single chain in SISO mode. $SISO\ A\ pwr = SISO\ B\ pwr = MIMO\ pwr\ (1/2\ A\ pwr + 1/2\ B\ pwr)$.

The EIRP power and PSD EIRP (dBm) is calculated by adding the declared maximum antenna gain (+5.59dBi) to the measured conducted power in accordance with KDB 662911 D01 v02r01. All transmit signals are completely uncorrelated with each other. Therefore, Directional gain = GANT = +5.59 dBi.

Per KDB 662911 D01 v02r01: MIMO Spacial diversity applies as completely uncorrelated, neither beamforming, whether fixed or adaptative, nor Cyclic Delay Diversity (CDD) technique are used. For further details, refer to 'MIMO Theory of Operation' document.

The conducted setup shown in section *Test & System Description* was used to measure the maximum conducted output power and power spectral density. The antenna terminal of the EUT is connected to the spectrum analyser through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.

See Annex C.1.2 for the screenshot results.

Results tables

Duty cycle

Mode	Rate	Antenna	Duty Cycle [%]
802.11a	6Mbps	SISO A	98.0
		SISO B	98.0
802.11n20	HT0	SISO A	98.9
		SISO B	98.9
	HT8	MIMO A	98.9
		MIMO B	98.9
802.11ax20	HE0	SISO A	98.8
		SISO B	98.8
		MIMO A	99.4
		MIMO B	99.4
802.11n40	HT0	SISO A	98.8
		SISO B	98.8
	HT8	MIMO A	98.7
		MIMO B	98.7
802.11ax40	HE0	SISO A	98.8
		SISO B	98.8
		MIMO A	99.3
		MIMO B	99.3
802.11ac80	VHT0	SISO A	98.8
		SISO B	98.8
		MIMO A	99.4
		MIMO B	99.4
802.11ax80	HE0	SISO A	98.8
		SISO B	98.8
		MIMO A	99.4
		MIMO B	99.4
802.11ac160	VTH0	SISO A	98.8
		SISO B	98.8
		MIMO A	99.1
		MIMO B	99.1
802.11ax160	HE0	SISO A	98.8
		SISO B	98.8
		MIMO A	98.9
		MIMO B	98.9

Maximum output power

UNII5

UNII	Mode	BW [MHz]	Rate	Ch#	Freq [MHz]	RU config	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Antenn a Gain (dBi)	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ O utput Power [mW]	Max ⁽¹⁾ EIRP [mW]		
UNII-5	802.11a	20	6Mbps	1	5955	n/a	SISO A	4.59	4.59	5.59	10.18	2.88	10.42		
				45	6175		SISO B	3.64	3.64		9.23	2.31	8.38		

(1) Value compensated with the duty cycle

(2) Max/Min value highlighted per mode/bandwidth

UNII	Mode	BW [MHz]	Rate	Ch#	Freq [MHz]	RU config	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Antenn a Gain (dBi)	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾ EIRP [mW]
UNII5	802.11ac	80	VHT0	7	5985	n/a	SISO A	10.60	10.60	5.59	16.19	11.48	41.59
							SISO B	10.51	10.51		16.10	11.25	40.74
							MIMO A	7.34	7.34		12.93	5.42	19.63
							MIMO B	7.07	7.07		12.66	5.09	18.45
							Combined A+B	10.22	10.22		15.81	10.51	38.08
				SISO A	10.52		10.52	16.11	11.27		40.83		
				SISO B	11.01		11.01	16.60	12.62		45.71		
				MIMO A	7.77		7.77	13.36	5.98		21.68		
				MIMO B	6.81		6.81	12.40	4.80		17.38		
				Combined A+B	10.33		10.33	15.92	10.78		39.06		
				SISO A	10.83		10.83	16.42	12.11		43.85		
				SISO B	10.75		10.75	16.34	11.89		43.05		
				MIMO A	7.41		7.41	13.00	5.51		19.95		
				MIMO B	7.19		7.19	12.78	5.24		18.97		
				Combined A+B	10.31		10.31	15.90	10.74		38.92		
	802.11ac	160	VHT0	15	6025	n/a	SISO A	13.56	13.56	19.15	22.70	82.22	
							SISO B	13.30	13.30	18.89	21.38	77.45	
							MIMO A	10.54	10.54	16.13	11.32	41.02	
							MIMO B	10.15	10.15	15.74	10.35	37.50	
							Combined A+B	13.36	13.36	18.95	21.68	78.52	
				SISO A	13.72		13.72	19.31	23.55	85.31			
				SISO B	13.55		13.55	19.14	22.65	82.04			
				MIMO A	10.33		10.33	15.92	10.79	39.08			
				MIMO B	10.44		10.44	16.03	11.07	40.09			
				Combined A+B	13.40		13.40	18.99	21.86	79.17			
	802.11ax	20	HE0	1	5955	Full BW	SISO A	4.98	4.98	10.57	3.15	11.40	
							SISO B	4.09	4.09	9.68	2.56	9.29	
							MIMO A	0.91	0.91	6.50	1.23	4.47	
							MIMO B	1.60	1.60	7.19	1.45	5.24	
							Combined A+B	4.28	4.28	9.87	2.68	9.70	
SISO A				4.65	4.65		10.24	2.92	10.57				
SISO B				4.23	4.23		9.82	2.65	9.59				
MIMO A				1.55	1.55		7.14	1.43	5.18				
MIMO B				1.29	1.29		6.88	1.35	4.88				
Combined A+B				4.43	4.43		10.02	2.77	10.05				
SISO A				4.93	4.93		10.52	3.11	11.27				
SISO B				4.37	4.37		9.96	2.74	9.91				
MIMO A				1.73	1.73		7.32	1.49	5.40				
MIMO B				1.09	1.09		6.68	1.29	4.66				
Combined A+B				4.43	4.43		10.02	2.77	10.05				

⁽¹⁾ Value compensated with the duty cycle

⁽²⁾ Max/Min value highlighted per mode/bandwidth

UNII	Mode	BW [MHz]	Rate	Ch#	Freq [MHz]	RU config	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Antenn a Gain (dBi)	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾ EIRP [mW]
UNII5	802.11ax	40	HE0	3	5965	Full BW	SISO A	7.58	7.58	5.59	13.17	5.73	20.75
							SISO B	8.13	8.13		13.72	6.50	23.55
							MIMO A	4.84	4.84		10.43	3.05	11.04
							MIMO B	4.29	4.29		9.88	2.69	9.73
							Combined A+B	7.58	7.58		13.17	5.73	20.77
				SISO A	7.74		7.74	13.33	5.94		21.53		
				SISO B	7.82		7.82	13.41	6.05		21.93		
				MIMO A	4.56		4.56	10.15	2.86		10.35		
				MIMO B	4.06		4.06	9.65	2.55		9.23		
				Combined A+B	7.33		7.33	12.92	5.40		19.58		
				SISO A	7.90		7.90	13.49	6.17		22.34		
				SISO B	7.89		7.89	13.48	6.15		22.28		
				MIMO A	4.86		4.86	10.45	3.06		11.09		
				MIMO B	4.33		4.33	9.92	2.71		9.82		
				Combined A+B	7.61		7.61	13.20	5.77		20.91		
	802.11ax	80	HE0	7	5985	Full BW	SISO A	10.96	10.96	16.55	12.47	45.19	
							SISO B	10.16	10.16	15.75	10.38	37.58	
							MIMO A	8.01	8.01	13.60	6.32	22.91	
							MIMO B	7.78	7.78	13.37	6.00	21.73	
							Combined A+B	10.91	10.91	16.50	12.32	44.64	
				SISO A	10.79		10.79	16.38	11.99	43.45			
				SISO B	10.85		10.85	16.44	12.16	44.06			
				MIMO A	7.69		7.69	13.28	5.87	21.28			
				MIMO B	7.61		7.61	13.20	5.77	20.89			
				Combined A+B	10.66		10.66	16.25	11.64	42.17			
				SISO A	10.44		10.44	16.03	11.07	40.09			
				SISO B	10.27		10.27	15.86	10.64	38.55			
				MIMO A	7.11		7.11	12.70	5.14	18.62			
				MIMO B	6.82		6.82	12.41	4.81	17.42			
				Combined A+B	9.98		9.98	15.57	9.95	36.04			
802.11ax	160	HE0	15	6025	Full BW	SISO A	13.87	13.87	19.46	24.38	88.31		
						SISO B	13.72	13.72	19.31	23.55	85.31		
						MIMO A	10.54	10.54	16.13	11.32	41.02		
						MIMO B	9.87	9.87	15.46	9.71	35.16		
						Combined A+B	13.23	13.23	18.82	21.03	76.18		
			SISO A	13.89		13.89	19.48	24.49	88.72				
			SISO B	13.35		13.35	18.94	21.63	78.34				
			MIMO A	10.51		10.51	16.10	11.25	40.74				
			MIMO B	10.03		10.03	15.62	10.07	36.48				
			Combined A+B	13.29		13.29	18.88	21.32	77.21				

(1) Value compensated with the duty cycle

(2) Max/Min value highlighted per mode/bandwidth

UNII6

UNII	Mode	BW [MHz]	Rate	Ch#	Freq [MHz]	RU config	Chain	Output Power [dBm]	Max ⁽¹⁾ Output Power [dBm]	Antenna Gain (dBi)	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾ EIRP [mW]
UNII-6	802.11a	20	6	97	6435	n/a	SISO A	4.22	4.22	5.59	9.81	2.64	9.57
							SISO B	4.36	4.36		9.95	2.73	9.89
				105	6475		SISO A	4.05	4.05		9.64	2.54	9.20
							SISO B	4.36	4.36		9.95	2.73	9.89
				113	6515		SISO A	4.22	4.22		9.81	2.64	9.57
							SISO B	3.92	3.92		9.51	2.47	8.93
	802.11n	20	HT0	97	6435	n/a	SISO A	4.26	4.26		9.85	2.67	9.66
							SISO B	4.61	4.61		10.20	2.89	10.47
				105	6475		SISO A	4.46	4.46		10.05	2.79	10.12
							SISO B	4.21	4.21		9.80	2.64	9.55
				113	6515		SISO A	4.61	4.61		10.20	2.89	10.47
							SISO B	4.51	4.51		10.10	2.82	10.23
	802.11n	20	HT8	97	6435	n/a	MIMO A	1.60	1.60		7.19	1.45	5.24
							MIMO B	1.02	1.02		6.61	1.26	4.58
							Combined A+B	4.33	4.33		9.92	2.71	9.82
				105	6475		MIMO A	0.92	0.92		6.51	1.24	4.48
							MIMO B	0.64	0.64		6.23	1.16	4.20
							Combined A+B	3.79	3.79		9.38	2.39	8.67
				113	6515		MIMO A	0.96	0.96		6.55	1.25	4.52
							MIMO B	0.51	0.51		6.10	1.12	4.07
							Combined A+B	3.75	3.75		9.34	2.37	8.59
	802.11n	40	HT0	99	6445	n/a	SISO A	7.41	7.41		13.00	5.51	19.95
							SISO B	7.39	7.39		12.98	5.48	19.86
				107	6485		SISO A	7.29	7.29		12.88	5.36	19.41
							SISO B	7.97	7.97		13.56	6.27	22.70
			HT8	99	6445		MIMO A	4.31	4.31		9.90	2.70	9.77
							MIMO B	4.04	4.04		9.63	2.54	9.18
							Combined A+B	7.19	7.19		12.78	5.23	18.96
				107	6485		MIMO A	4.68	4.68		10.27	2.94	10.64
							MIMO B	4.16	4.16		9.75	2.61	9.44
							Combined A+B	7.44	7.44		13.03	5.54	20.08
	802.11ac	80	VHT0	103	6465	n/a	SISO A	10.94	10.94		16.53	12.42	44.98
							SISO B	10.72	10.72		16.31	11.80	42.76
							MIMO A	7.66	7.66		13.25	5.83	21.13
							MIMO B	7.46	7.46		13.05	5.57	20.18
							Combined A+B	10.57	10.57		16.16	11.41	41.32
				119	6545		SISO A	10.42	10.42		16.01	11.02	39.90
							SISO B	10.65	10.65		16.24	11.61	42.07
							MIMO A	7.13	7.13		12.72	5.16	18.71
							MIMO B	7.02	7.02		12.61	5.04	18.24
							Combined A+B	10.09	10.09		15.68	10.20	36.95
	802.11ac	160	VHT0	111	6505	n/a	SISO A	13.54	13.54		19.13	22.59	81.85
							SISO B	13.28	13.28		18.87	21.28	77.09
							MIMO A	10.33	10.33		15.92	10.79	39.08
							MIMO B	9.97	9.97		15.56	9.93	35.97
							Combined A+B	13.16	13.16		18.75	20.72	75.06

(1) Value compensated with the duty cycle

(2) Max/Min value highlighted per mode/bandwidth

UNII	Mode	BW [MHz]	Rate	Ch#	Freq [MHz]	RU config	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Antenn a Gain (dBi)	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾ EIRP [mW]
UNII6	802.11ax	20	HE0	97	6435	Full BW	SISO A	4.73	4.73	5.59	10.32	2.97	10.76
							SISO B	4.83	4.83		10.42	3.04	11.02
							MIMO A	1.64	1.64		7.23	1.46	5.28
							MIMO B	1.43	1.43		7.02	1.39	5.04
							Combined A+B	4.55	4.55		10.14	2.85	10.32
				SISO A	4.57		4.57	10.16	2.86		10.38		
				SISO B	4.50		4.50	10.09	2.82		10.21		
				MIMO A	1.39		1.39	6.98	1.38		4.99		
				MIMO B	1.01		1.01	6.60	1.26		4.57		
				Combined A+B	4.21		4.21	9.80	2.64		9.56		
				SISO A	4.44		4.44	10.03	2.78		10.07		
				SISO B	4.35		4.35	9.94	2.72		9.86		
				MIMO A	1.35		1.35	6.94	1.36		4.94		
				MIMO B	1.08		1.08	6.67	1.28		4.65		
				Combined A+B	4.23		4.23	9.82	2.65		9.59		
	802.11ax	40	HE0	99	6445	Full BW	SISO A	7.85	7.85	13.44	6.10	22.08	
							SISO B	8.15	8.15	13.74	6.53	23.66	
							MIMO A	4.65	4.65	10.24	2.92	10.57	
							MIMO B	4.49	4.49	10.08	2.81	10.19	
							Combined A+B	7.58	7.58	13.17	5.73	20.75	
				SISO A	7.54		7.54	13.13	5.68	20.56			
				SISO B	7.08		7.08	12.67	5.11	18.49			
				MIMO A	3.91		3.91	9.50	2.46	8.91			
				MIMO B	3.64		3.64	9.23	2.31	8.38			
				Combined A+B	6.79		6.79	12.38	4.77	17.29			
	802.11ax	80	HE0	103	6465	Full BW	SISO A	10.69	10.69	16.28	11.72	42.46	
							SISO B	10.16	10.16	15.75	10.38	37.58	
							MIMO A	7.61	7.61	13.20	5.77	20.89	
							MIMO B	7.22	7.22	12.81	5.27	19.10	
							Combined A+B	10.43	10.43	16.02	11.04	39.99	
				SISO A	10.18	10.18	15.77	10.42	37.76				
				SISO B	10.02	10.02	15.61	10.05	36.39				
				MIMO A	7.64	7.64	13.23	5.81	21.04				
				MIMO B	7.59	7.59	13.18	5.74	20.80				
				Combined A+B	10.63	10.63	16.22	11.55	41.83				
	802.11ax	160	HE0	111	6505	Full BW	SISO A	13.48	13.48	19.07	22.28	80.72	
							SISO B	13.08	13.08	18.67	20.32	73.62	
							MIMO A	10.70	10.70	16.29	11.75	42.56	
							MIMO B	10.27	10.27	15.86	10.64	38.55	
							Combined A+B	13.50	13.50	19.09	22.39	81.11	

(1) Value compensated with the duty cycle

(2) Max/Min value highlighted per mode/bandwidth

UNI7

UNI7	Mode	BW [MHz]	Rate	Ch#	Freq [MHz]	RU config	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Antenn a Gain (dBi)	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾ EIRP [mW]
UNI7	802.11a	20	6	117	6535	n/a	SISO A	4.06	4.06	5.59	9.65	2.55	9.23
							SISO B	4.40	4.40		9.99	2.75	9.98
				149	6695		SISO A	4.34	4.34		9.93	2.72	9.84
							SISO B	4.29	4.29		9.88	2.69	9.73
				181	6855		SISO A	4.19	4.19		9.78	2.62	9.51
							SISO B	4.56	4.56		10.15	2.86	10.35
	802.11n	20	HT0	117	6535	n/a	SISO A	4.33	4.33		9.92	2.71	9.82
							SISO B	4.21	4.21		9.80	2.64	9.55
				149	6695		SISO A	4.27	4.27		9.86	2.67	9.68
							SISO B	4.88	4.88		10.47	3.08	11.14
				181	6855		SISO A	4.77	4.77		10.36	3.00	10.86
							SISO B	4.30	4.30		9.89	2.69	9.75
	802.11n	20	HT8	117	6535	n/a	MIMO A	1.30	1.30		6.89	1.35	4.89
							MIMO B	1.01	1.01		6.60	1.26	4.57
							Combined A+B	4.17	4.17		9.76	2.61	9.46
				149	6695		MIMO A	1.03	1.03		6.62	1.27	4.59
							MIMO B	1.12	1.12		6.71	1.29	4.69
							Combined A+B	4.09	4.09		9.68	2.56	9.28
				181	6855		MIMO A	1.66	1.66		7.25	1.47	5.31
							MIMO B	0.86	0.86		6.45	1.22	4.42
	802.11n	40	HT0	115	6525	n/a	Combined A+B	4.29	4.29		9.88	2.68	9.72
							SISO A	7.48	7.48		13.07	5.60	20.28
							SISO B	7.67	7.67		13.26	5.85	21.18
				147	6685		SISO A	7.56	7.56		13.15	5.70	20.65
							SISO B	7.10	7.10		12.69	5.13	18.58
				179	6845		SISO A	7.53	7.53		13.12	5.66	20.51
UNI7	802.11n	40	HT8			n/a	SISO B	7.76	7.76		13.35	5.97	21.63
				115	6525		MIMO A	4.80	4.80		10.39	3.02	10.94
							MIMO B	4.70	4.70		10.29	2.95	10.69
							Combined A+B	7.76	7.76		13.35	5.97	21.63
				147	6685		MIMO A	4.56	4.56		10.15	2.86	10.35
							MIMO B	4.15	4.15		9.74	2.60	9.42
	802.11n	40	HT8			n/a	Combined A+B	7.37	7.37		12.96	5.46	19.77
				115	6525		MIMO A	4.51	4.51		10.10	2.82	10.23
							MIMO B	3.96	3.96		9.55	2.49	9.02
				147	6685		Combined A+B	7.25	7.25		12.84	5.31	19.25
				179	6845								

(1) Value compensated with the duty cycle

(2) Max/Min value highlighted per mode/bandwidth

UNII	Mode	BW [MHz]	Rate	Ch#	Freq [MHz]	RU config	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Antenn a Gain (dBi)	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾ EIRP [mW]
UNII-7	802.11ac	80	VHT0	135	6625	n/a	SISO A	10.74	10.74	5.59	16.33	11.86	42.95
							SISO B	10.92	10.92		16.51	12.36	44.77
							MIMO A	7.53	7.53		13.12	5.66	20.51
							MIMO B	7.38	7.38		12.97	5.47	19.82
							Combined A+B	10.47	10.47		16.06	11.13	40.33
				SISO A	10.83		10.83	16.42	12.11		43.85		
				SISO B	10.84		10.84	16.43	12.13		43.95		
				MIMO A	7.68		7.68	13.27	5.86		21.23		
				MIMO B	7.37		7.37	12.96	5.46		19.77		
				Combined A+B	10.54		10.54	16.13	11.32		41.00		
	802.11ac	160	VHT0	143	6665	n/a	SISO A	13.43	13.43		19.02	22.03	79.80
							SISO B	13.29	13.29		18.88	21.33	77.27
							MIMO A	10.16	10.16		15.75	10.38	37.58
							MIMO B	10.11	10.11		15.70	10.26	37.15
							Combined A+B	13.15	13.15		18.74	20.63	74.74
	802.11ax	20	HE0	117	6535	Full BW	SISO A	4.42	4.42		10.01	2.77	10.02
							SISO B	4.43	4.43		10.02	2.77	10.05
							MIMO A	1.13	1.13		6.72	1.30	4.70
							MIMO B	0.98	0.98		6.57	1.25	4.54
							Combined A+B	4.07	4.07		9.66	2.55	9.24
				SISO A	4.06		4.06	9.65	2.55		9.23		
				SISO B	4.24		4.24	9.83	2.65		9.62		
				MIMO A	1.29		1.29	6.88	1.35		4.88		
				MIMO B	1.28		1.28	6.87	1.34		4.86		
				Combined A+B	4.30		4.30	9.89	2.69		9.74		
				SISO A	4.29		4.29	9.88	2.69		9.73		
				SISO B	4.77		4.77	10.36	3.00		10.86		
				MIMO A	1.82		1.82	7.41	1.52		5.51		
				MIMO B	1.18		1.18	6.77	1.31		4.75		
				Combined A+B	4.52		4.52	10.11	2.83		10.26		

(1) Value compensated with the duty cycle

(2) Max/Min value highlighted per mode/bandwidth

UNII	Mode	BW [MHz]	Rat e	Ch#	Freq [MHz]	RU config	Chain	Ouput Power [dBm]	Max ⁽¹⁾ Ouput Power [dBm]	Antenn a Gain (dBi)	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾ EIRP [mW]
UNII7	802.11ax	40	HE0	115	6525	Full BW	SISO A	7.48	7.48	5.59	13.07	5.60	20.28
							SISO B	7.92	7.92		13.51	6.19	22.44
							MIMO A	4.50	4.50		10.09	2.82	10.21
							MIMO B	4.18	4.18		9.77	2.62	9.48
							Combined A+B	7.35	7.35		12.94	5.44	19.69
				SISO A	7.67		7.67	13.26	5.85		21.18		
				SISO B	7.51		7.51	13.10	5.64		20.42		
				MIMO A	4.32		4.32	9.91	2.70		9.79		
				MIMO B	4.03		4.03	9.62	2.53		9.16		
				Combined A+B	7.19		7.19	12.78	5.23		18.96		
				SISO A	7.70		7.70	13.29	5.89		21.33		
				SISO B	7.82		7.82	13.41	6.05		21.93		
				MIMO A	4.56		4.56	10.15	2.86		10.35		
				MIMO B	3.99		3.99	9.58	2.51		9.08		
				Combined A+B	7.29		7.29	12.88	5.36		19.43		
		80	HE0	135	6625	Full BW	SISO A	10.68	10.68	16.27	11.69	42.36	
							SISO B	10.98	10.98	16.57	12.53	45.39	
							MIMO A	7.85	7.85	13.44	6.10	22.08	
							MIMO B	7.53	7.53	13.12	5.66	20.51	
							Combined A+B	10.70	10.70	16.29	11.76	42.59	
				SISO A	10.69		10.69	16.28	11.72	42.46			
				SISO B	10.95		10.95	16.54	12.45	45.08			
				MIMO A	7.94		7.94	13.53	6.22	22.54			
				MIMO B	7.73		7.73	13.32	5.93	21.48			
				Combined A+B	10.85		10.85	16.44	12.15	44.02			
		160	HE0	143	6665	Full BW	SISO A	13.25	13.25	18.84	21.13	76.56	
							SISO B	13.10	13.10	18.69	20.42	73.96	
							MIMO A	10.53	10.53	16.12	11.30	40.93	
							MIMO B	10.45	10.45	16.04	11.09	40.18	
							Combined A+B	13.50	13.50	19.09	22.39	81.11	

(1) Value compensated with the duty cycle

(2) Max/Min value highlighted per mode/bandwidth

UNII8

UNII	Mode	BW [MHz]	Rate	Ch#	Freq [MHz]	RU config	Chain	Output Power [dBm]	Max ⁽¹⁾ Output Power [dBm]	Antenna Gain (dBi)	Max ⁽¹⁾ EIRP [dBm]	Max ⁽¹⁾ Output Power [mW]	Max ⁽¹⁾ EIRP [mW]
UNII-8	802.11a	20	6	185	6875	n/a	SISO A	4.16	4.16	5.59	9.75	2.61	9.44
							SISO B	4.54	4.54		10.13	2.84	10.30
				209	6995		SISO A	4.13	4.13		9.72	2.59	9.38
							SISO B	3.65	3.65		9.24	2.32	8.39
				229	7095		SISO A	4.24	4.24		9.83	2.65	9.62
							SISO B	3.72	3.72		9.31	2.36	8.53
				233	7115		SISO A	1.46	1.46		7.05	1.40	5.07
							SISO B	0.63	0.63		6.22	1.16	4.19
	802.11n	20	HT0	185	6875	n/a	SISO A	4.60	4.60		10.19	2.88	10.45
							SISO B	4.61	4.61		10.20	2.89	10.47
				209	6995		SISO A	4.39	4.39		9.98	2.75	9.95
							SISO B	3.76	3.76		9.35	2.38	8.61
				229	7095		SISO A	4.52	4.52		10.11	2.83	10.26
							SISO B	4.20	4.20		9.79	2.63	9.53
				233	7115		SISO A	0.61	0.61		6.20	1.15	4.17
							SISO B	0.21	0.21		5.80	1.05	3.80
		20	HT8	185	6875		MIMO A	1.67	1.67		7.26	1.47	5.32
							MIMO B	0.86	0.86		6.45	1.22	4.42
							Combined A+B	4.29	4.29		9.88	2.69	9.74
				209	6995		MIMO A	1.46	1.46		7.05	1.40	5.07
							MIMO B	0.47	0.47		6.06	1.11	4.04
							Combined A+B	4.00	4.00		9.59	2.51	9.11
				229	7095		MIMO A	1.59	1.59		7.18	1.44	5.22
							MIMO B	0.36	0.36		5.95	1.09	3.94
							Combined A+B	4.03	4.03		9.62	2.53	9.16
				233	7115		MIMO A	-1.86	-1.86		3.73	0.65	2.36
							MIMO B	-2.34	-2.34		3.25	0.58	2.11
							Combined A+B	0.92	0.92		6.51	1.24	4.47
	802.11n	40	HT0	187	6885	n/a	SISO A	7.52	7.52		13.11	5.65	20.46
							SISO B	7.82	7.82		13.41	6.05	21.93
				227	7085		SISO A	7.64	7.64		13.23	5.81	21.04
							SISO B	7.36	7.36		12.95	5.45	19.72
			HT8	187	6885		MIMO A	4.88	4.88		10.47	3.08	11.14
							MIMO B	4.20	4.20		9.79	2.63	9.53
							Combined A+B	7.56	7.56		13.15	5.71	20.67
							MIMO A	4.73	4.73		10.32	2.97	10.76
				227	7085		MIMO B	4.23	4.23		9.82	2.65	9.59
							Combined A+B	7.50	7.50		13.09	5.62	20.36
	802.11ac	80	VHT0	183	6865	n/a	SISO A	10.66	10.66		16.25	11.64	42.17
							SISO B	10.11	10.11		15.70	10.26	37.15
							MIMO A	7.64	7.64		13.23	5.81	21.04
							MIMO B	6.77	6.77		12.36	4.75	17.22
							Combined A+B	10.24	10.24		15.83	10.56	38.26
				199	6945		SISO A	10.75	10.75		16.34	11.89	43.05
							SISO B	10.40	10.40		15.99	10.96	39.72
							MIMO A	7.29	7.29		12.88	5.36	19.41
							MIMO B	6.79	6.79		12.38	4.78	17.30
							Combined A+B	10.06	10.06		15.65	10.13	36.71
							SISO A	10.70	10.70		16.29	11.75	42.56
							SISO B	11.04	11.04		16.63	12.71	46.03
				215	7025		MIMO A	7.40	7.40		12.99	5.50	19.91
							MIMO B	7.05	7.05		12.64	5.07	18.37
							Combined A+B	10.24	10.24		15.83	10.57	38.27