



# RADIO TEST REPORT

Test Report No. : 12079942H-C-R1

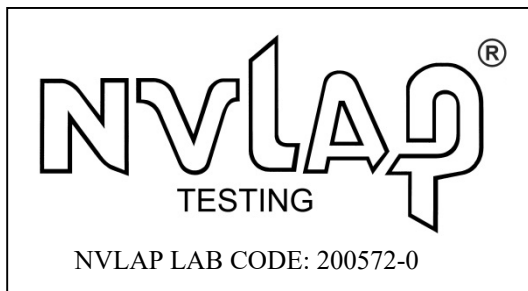
**Applicant** : Sony Interactive Entertainment Inc.  
**Type of Equipment** : Wireless communication module  
**Model No.** : J20H096  
**FCC ID** : AK8M18DFT1  
**Test regulation** : FCC Part 15 Subpart E: 2018  
(Except for DFS test)  
**Test Result** : Complied

1. This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the above regulation.
4. The test results in this report are traceable to the national or international standards.
5. This test report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
6. This test report covers Radio technical requirements. It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)
7. This report is a revised version of 12079942H-C. 12079942H-C is replaced with this report.

**Date of test:** January 26 to February 6, 2018

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## **SECTION 1: Customer information**

Company Name	Sony Interactive Entertainment Inc.
Brand Name	SONY
Address	1-7-1 Konan, Minato-ku, Tokyo, 108-0075 Japan
Telephone Number	+81-50-3807-5639
Facsimile Number	+81-50-3807-9594
Contact Person	Kiyoto Sasaki

## **SECTION 2: Equipment under test (E.U.T.)**

### **2.1 Identification of E.U.T.**

Type of Equipment	Wireless communication module
Model No	J20H096
Serial No	Refer to Clause 4.2
Country of Manufacture	China/Japan
Receipt Date of Sample	January 20, 2018
Condition of EUT	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification of EUT	No modification by the test lab.

### **2.2 Product Description**

J20H096 is the Wireless communication module.

#### **Product Specification**

Clock frequency in the system (radio part)	26 MHz
Operating Temperature	-10 deg. C - +85 deg. C
Power Supply	DC 3.3 V / DC 1.8 V
Size	20 x 18 x 3.0 mm , 55pin LGA

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## Radio Specification

### WLAN (IEEE802.11b/g/n-20)

Equipment Type	Transceiver
Frequency of Operation	2412 MHz - 2462 MHz
Type of Modulation	DSSS, OFDM
Bandwidth & Channel spacing	Less than 20 MHz & 5 MHz
Method of frequency generation	Synthesizer
Antenna Type	IFA (Antenna port WA for 2.4 GHz / Antenna port WB for 2.4 GHz)
Antenna Gain: G <sub>ANT</sub>	4.0 dBi (Antenna port WA for 2.4 GHz), 4.2 dBi (Antenna port WB for 2.4 GHz)
Directional Gain *1)	7.11 dBi

### WLAN (IEEE802.11a/11n-20/11ac-20/11n-40/11ac-40/11ac-80)

Equipment Type	Transceiver
Frequency of Operation	U-NII-1: 5180 MHz - 5240 MHz U-NII-2A: 5260 MHz - 5320 MHz U-NII-2C: 5500 MHz - 5700 MHz U-NII-3: 5745 MHz - 5825 MHz
Type of Modulation	OFDM
Bandwidth & Channel spacing	Less than 20 MHz / 40 MHz / 80 MHz & 20 MHz / 40 MHz / 80 MHz
Method of frequency generation	Synthesizer
Antenna Type	IFA (Antenna port WA for 5 GHz), PIFA (Antenna port WC for 5 GHz)
Antenna Gain: G <sub>ANT</sub>	5.0 dBi (Antenna port WA for 5 GHz), 3.5 dBi (Antenna port WC for 5 GHz)
Directional Gain *1)	7.29 dBi

### Bluetooth (BDR/EDR)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz - 2480 MHz
Type of Modulation	FHSS (GFSK, $\pi/4$ DQPSK, 8DPSK)
Bandwidth & Channel spacing	79 MHz & 1 MHz
Method of frequency generation	Synthesizer
Antenna Type	PIFA (Antenna port WC for 2.4 GHz)
Antenna Gain	6.4 dBi (Antenna port WC for 2.4 GHz)

### Bluetooth (Low Energy)

Equipment Type	Transceiver
Frequency of Operation	2402 MHz - 2480 MHz
Type of Modulation	GFSK
Bandwidth & Channel spacing	1 MHz & 2 MHz
Method of frequency generation	Synthesizer
Antenna Type	PIFA (Antenna port WC for 2.4 GHz)
Antenna Gain	6.4 dBi (Antenna port WC for 2.4 GHz)

\*1) Directional antenna gain =  $10 \log \left( \frac{G_{ANT1}}{(10^{20}} + \frac{G_{ANT2}}{10^{20}})^2 / 2 \right)$

\*This test report applies to WLAN (5 GHz band).

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### **SECTION 3: Test specification, procedures & results**

#### **3.1 Test Specification**

Test Specification : FCC Part 15 Subpart E  
FCC Part 15 final revised on February 2, 2018 and effective March 5, 2018

Title : FCC 47CFR Part15 Radio Frequency Device Subpart E  
Unlicensed National Information Infrastructure Devices  
Section 15.407 General technical requirements

\* The revision on February 2, 2018, does not affect the test specification applied to the EUT.

\* Also the EUT complies with FCC Part 15 Subpart B.

### 3.2 Procedures and results

Item	Test Procedure	Specification	Worst margin	Results	Remarks
Conducted Emission	FCC: ANSI C63.10-2013	FCC: 15.407 (b) (6) / 15.207	QP 13.6 dB, 0.15000 MHz, L AV 25.7 dB, 0.15000 MHz, N/L	Complied	-
	IC: RSS-Gen 8.8	IC: RSS-Gen 8.8			
26 dB Emission Bandwidth	FCC: KDB Publication Number 789033 D02	FCC: 15.407 (a) (1) (2) (3)	See data	N/A	Conducted
	IC: -	IC: -			
Maximum Conducted Output Power	FCC: KDB Publication Number 789033 D02	FCC: 15.407 (a) (1) (2) (3)		Complied	Conducted
	IC: -	IC: RSS-247 6.2.1.1 6.2.2.1 6.2.3.1 6.2.4.1			
Maximum Power Spectral Density	FCC: KDB Publication Number 789033 D02	FCC : 15.407 (a) (1) (2) (3)		Complied	Conducted
	IC: -	IC: RSS-247 6.2.1.1 6.2.2.1 6.2.3.1 6.2.4.1			
Spurious Emission Restricted Band Edge	FCC: ANSI C63.10-2013 KDB Publication Number 789033 D02	FCC: 15.407 (b), 15.205 and 15.209	3.3 dB 5460.000MHz, AV, Hori.	Complied	Conducted (< 30 MHz) / Radiated (> 30 MHz) *1)
	IC: -	IC: RSS-247 6.2.1.2 6.2.2.2 6.2.3.2 6.2.4.2			
6 dB Emission Bandwidth	FCC: ANSI C63.10-2013	FCC: 15.407 (e)	See data	Complied	Conducted
	IC: -	IC: RSS-247 6.2.4.1			

Note: UL Japan, Inc.'s EMI Work Procedures No. 13-EM-W0420 and 13-EM-W0422.  
\* For DFS tests, please see the test report number 12079942H-D issued by UL Japan, Inc.  
\*1) Radiated test was selected over 30 MHz based on section FCC 15.407 (b) and KDB 789033 D02 G.3.b).  
\* In case any questions arise about test procedure, ANSI C63.10: 2013 is also referred.

#### **FCC Part 15.31 (e)**

The EUT has the power supply regulator. However one of the input voltages to RF part doesn't go through the regulator. The stable voltage will be supplied by the end product, which will be required to have a power supply regulator. Therefore, the EUT complies with the requirement.

#### **FCC Part 15.203/212 Antenna requirement**

The EUT has unique coupling/antenna connectors (U.FL) for antenna ports WC and also has a pattern antenna (Antenna port WA and WB) that is not removable from the EUT.  
Therefore the equipment complies with the requirement of 15.203/212.

### 3.3 Addition to standard

Item	Test Procedure	Specification	Worst margin	Results	Remarks
99 % Occupied Bandwidth	IC: RSS-Gen 6.6	IC: -	N/A	-	Conducted

Other than above, no addition, exclusion nor deviation has been made from the standard.

### 3.4 Uncertainty

#### EMI

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor  $k=2$ .

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#### Antenna Terminal test

Test Item	Uncertainty (+/-)	
RF output power	1.3 dB	
Antenna terminal conducted emission / Power density / Burst power	2.7 dB	
Adjacent channel power / Channel power		
	Below 3GHz	1.9 dB
	3 GHz ot 6 GHz	2.1 dB

#### Conducted emission

using Item	Frequency range	Uncertainty (+/-)
AMN (LISN)	0.009 MHz to 0.15 MHz	3.8 dB
	0.15 MHz to 30 MHz	3.4 dB

#### Radiated emission

Measurement distance	Frequency range	Uncertainty (+/-)
3 m	9 kHz to 30 MHz	3.3 dB
10 m		3.2 dB
3 m	30 MHz to 200 MHz (Horizontal)	4.8 dB
	30 MHz to 200 MHz (Vertical)	5.0 dB
	200 MHz to 1000 MHz (Horiozntal)	5.2 dB
	200 MHz to 1000 MHz (Vertical)	6.3 dB
10 m	30 MHz to 200 MHz (Horizontal)	4.8 dB
	30 MHz to 200 MHz (Vertical)	4.9 dB
	200 MHz to 1000 MHz (Horiozntal)	5.0 dB
	200 MHz to 1000 MHz (Vertical)	5.0 dB
3 m	1 GHz to 6 GHz	5.0 dB
	6 GHz to 18 GHz	5.3 dB
1 m	10 GHz to 26.5 GHz	5.8 dB
	26.5 GHz to 40 GHz	5.8 dB
10 m	1 GHz to 18 GHz	5.2 dB

#### Conducted Emission test

The data listed in this test report has enough margin, more than the site margin.

#### Radiated emission test

The data listed in this report meets the limits unless the uncertainty is taken into consideration.

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### 3.5 Test Location

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NVLAP Lab. code: 200572-0 / FCC Test Firm Registration Number: 199967

Test site	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Other rooms	Maximum measurement distance
No.1 semi-anechoic chamber	2973C-1	19.2 x 11.2 x 7.7	7.0 x 6.0	No.1 Power source room	10 m
No.2 semi-anechoic chamber	2973C-2	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber	2973C-3	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room	3 m
No.3 shielded room	-	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber	2973C-4	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room	3 m
No.4 shielded room	-	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber	-	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.6 shielded room	-	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room	-	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room	-	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room	-	3.1 x 5.0 x 2.7	N/A	-	-
No.9 measurement room	-	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.11 measurement room	-	6.2 x 4.7 x 3.0	4.8 x 4.6	-	-

\* Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0 m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

### 3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.

## **SECTION 4: Operation of E.U.T. during testing**

### **4.1 Operating Mode(s)**

Test operating mode was determined as follows according to “Section 1 of 6 802.11 a/b/g/n testing - Managing Complex Regulatory Approvals -” of TCB Council Workshop October 2009 and also was judged the necessity of 802.11ac mode by the pre-test.

<b>Mode</b>	<b>Remarks*</b>
IEEE 802.11a (11a)	54 Mbps, PN9
IEEE 802.11n MIMO 20 MHz BW (11n-20)	MCS 7, PN9
IEEE 802.11ac MIMO 20 MHz BW (11ac-20)	MCS 7 (1Tx), PN9
IEEE 802.11n MIMO 40 MHz BW (11n-40)	MCS 1, PN9
IEEE 802.11ac MIMO 40 MHz BW (11ac-40)	MCS 7 (1Tx), PN9
IEEE 802.11ac MIMO 80 MHz BW (11ac-80)	MCS 7 (1Tx), PN9
*The worst antenna and condition was determined based on the test result of Maximum Conducted Output Power.	
*The power value of the EUT was set for testing as follows (setting value might be different from product specification value); Power settings: U-NII-1: Value = 12 U-NII-2A, U-NII-2C, U-NII-3: Value = 16 Software: MT_TEST_Tool_Ver6.3 *This setting of software is the worst case. Any conditions under the normal use do not exceed the condition of setting. In addition, end users cannot change the settings of the output power of the product.	

\*The details of Operation mode(s)

Test Item	Operating Mode	Tested Antenna port	Tested Frequency			
			Lower Band	Middle Band	Additional Band	Upper Band
Conducted emission, Radiated Spurious Emission (Below 1 GHz)	11ac-40 Tx *1)	WA+WC	-	-	5550 MHz	-
26 dB Emission Bandwidth	11a Tx 11n-20 Tx 11ac-20 Tx	WA	-	5260 MHz 5300 MHz 5320 MHz	5500 MHz 5580 MHz 5700 MHz	-
	11n-40 Tx 11ac-40 Tx	WA	-	5270 MHz 5310 MHz	5510 MHz 5550 MHz 5670 MHz	-
	11ac-80 Tx	WA	-	5290 MHz	5530 MHz 5610 MHz	-
99 % Occupied Bandwidth	11a Tx 11n-20 Tx 11ac-20 Tx	WA	5180 MHz 5220 MHz 5240 MHz	5260 MHz 5300 MHz 5320 MHz	5500 MHz 5580 MHz 5700 MHz	5745 MHz 5785 MHz 5825 MHz
	11n-40 Tx 11ac-40 Tx	WA	5190 MHz 5230 MHz	5270 MHz 5310 MHz	5510 MHz 5550 MHz 5670 MHz	5755 MHz 5795 MHz
	11ac-80 Tx	WA	5210 MHz	5290 MHz	5530 MHz 5610 MHz	5775 MHz
Maximum Conducted Output Power, Maximum Power Spectral Density	11a Tx 11n-20 Tx 11ac-20 Tx	WA+WC, WA, WC	5180 MHz 5220 MHz 5240 MHz	5260 MHz 5300 MHz 5320 MHz	5500 MHz 5580 MHz 5700 MHz	5745 MHz 5785 MHz 5825 MHz
	11n-40 Tx 11ac-40 Tx	WA+WC, WA, WC	5190 MHz 5230 MHz	5270 MHz 5310 MHz	5510 MHz 5550 MHz 5670 MHz	5755 MHz 5795 MHz
	11ac-80 Tx	WA+WC, WA, WC	5210 MHz	5290 MHz	5530 MHz 5610 MHz	5775 MHz
6 dB Bandwidth	11a Tx 11n-20 Tx 11ac-20 Tx	WA	-	-	-	5745 MHz 5785 MHz 5825 MHz
	11n-40 Tx 11ac-40 Tx					5755 MHz 5795 MHz
	11ac-80 Tx					5775 MHz
Radiated Spurious Emission (Above 1 GHz)	11ac-20 Tx *2)	WA+WC	5180 MHz	5260 MHz 5320 MHz	5500 MHz 5580 MHz 5700 MHz	5745 MHz 5785 MHz 5825 MHz
	11ac-40 Tx *2)	WA+WC	5190 MHz	5270 MHz 5310 MHz	5510 MHz 5550 MHz 5670 MHz	5755 MHz 5795 MHz
	11ac-80 Tx	WA+WC	5210 MHz	5290 MHz	5530 MHz 5610 MHz	5775 MHz
Conducted Spurious Emission	11ac-40 Tx *1)	WA	-	-	5550 MHz	-

\*1) The mode was tested as a representative, because it had the highest power at antenna terminal test.

\*2) Since 11n-20 and 11ac-20, 11n-40 and 11ac-40, have the same modulation method and no differences in transmitting specification, test was performed on the representative mode that had the highest output power.

\*Simultaneously transmission

Test Item	Operating Mode *1)	Tested Antenna port	Tested Frequency			
			Lower Band	Middle Band	Additional Band	Upper Band
Radiated Spurious Emission	Hopping on 3DH5 + 11ac-80	WA+WC	-	-	5530 MHz	-

\*1) The mode was tested as a representative, because it had the worst margin of 5GHz at radiated emission test.

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## 4.2 Configuration and peripherals

**This page has been submitted for a separate exhibit.**

## **SECTION 5: Conducted Emission**

### **Test Procedure and conditions**

EUT was placed on a urethane platform of nominal size, 0.5 m by 1.0 m, raised 0.8 m above the conducting ground plane.

The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN) / Artificial mains Network (AMN) and excess AC cable was bundled in center.

I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30 cm to 40 cm long and were hanged at a 40 cm height to the ground plane. All unused 50 ohm connectors of the LISN (AMN) were resistivity terminated in 50 ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber.

The EUT was connected to a LISN (AMN).

An overview sweep with peak detection has been performed.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

**Detector** : QP and CISPR Average  
**Measurement range** : 0.15 MHz - 30 MHz  
**Test data** : APPENDIX  
**Test result** : Pass

## **SECTION 6: Radiated Spurious Emission and Band Edge Compliance**

### **Test Procedure**

< Below 1GHz >

EUT was placed on a urethane platform of nominal size, 0.5 m by 1.0 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

< Above 1GHz >

EUT was placed on a urethane platform of nominal size, 0.5 m by 0.5 m, raised 1.5 m above the conducting ground plane.

The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with absorbent materials lined on a ground plane.

The height of the measuring antenna varied between 1 and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field strength.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

< Below 1GHz >

The result also satisfied with the general limits specified in section 15.209 (a).

< Above 1GHz >

Inside of restricted bands (Section 15.205):

Apply to limit in the Section 15.209 (a).

Outside of the restricted bands:

Apply to limit 68.2 dBuV/m, 3 m (-27 dBm e.i.r.p.\* ) in the Section 15.407 (b) (1) (2) (3).

For W58 Bandedge

-27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge in the section 15.407(b)(4)(i).

Restricted band edge:

Apply to limit in the Section 15.209 (a).

Since this limit is severer than the limit of the inside of restricted bands.

\*Electric field strength to e.i.r.p. conversion:

$$E = \frac{1000000 \sqrt{30P}}{3} \text{ (uV/m)} \quad :P \text{ is the e.i.r.p. (Watts)}$$

**Test Antennas are used as below;**

Frequency	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Biconical	Logperiodic	Horn

Frequency	Below 1 GHz	Above 1 GHz	
Instrument used	Test Receiver	Spectrum Analyzer	
Detector	QP	Peak	Average
IF Bandwidth	BW: 120 kHz	RBW: 1 MHz VBW: 3 MHz	Method AD *1) RBW: 1 MHz VBW: 3 MHz Detector: Power Averaging (RMS) Trace: ≥ 100 traces If duty cycle was less than 98%, a duty factor was added to the results.
Test Distance	3 m	3 m (below 1 GHz), 4.45 m*2) (1 GHz - 10 GHz), 1 m*3) (10 GHz - 40 GHz)	

\*1) The test method was also referred to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E".

\*2) Distance Factor:  $20 \times \log(4.45 \text{ m}/3.0 \text{ m}) = 3.43 \text{ dB}$

\*3) Distance Factor:  $20 \times \log(1.0 \text{ m}/3.0 \text{ m}) = -9.5 \text{ dB}$

- The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

**Measurement range : 30 MHz - 40 GHz**  
**Test data : APPENDIX**  
**Test result : Pass**

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## **SECTION 7: Antenna Terminal Conducted Tests**

### **Test Procedure**

The tests were made with below setting connected to the antenna port.

<b>Test</b>	<b>Span</b>	<b>RBW</b>	<b>VBW</b>	<b>Sweep time</b>	<b>Detector</b>	<b>Trace</b>	<b>Instrument used and Test method</b>
26 dB Bandwidth	Enough to capture the emission	Close to 1 % of EBW	> RBW	Auto	Peak	Max Hold	Spectrum Analyzer
99 % Occupied Bandwidth *1)	Enough width to display emission skirts	1 % to 5 % of OBW	$\geq 3$ RBW	Auto	Peak	Max Hold	Spectrum Analyzer
6 dB Bandwidth	Enough to capture the emission	100 kHz	300 kHz	Auto	Peak	Max Hold	Spectrum Analyzer
Maximum Conducted Output Power	-	-	-	Auto	Average	-	Power Meter (Sensor: 80 MHz BW) (Method PM)
Maximum Power Spectral Density	Encompass the entire EBW	1 MHz *2)	$\geq 3$ RBW	Auto	RMS Power Averaging (200 times)	Clear Write	Spectrum Analyzer
Conducted Spurious Emission*3)	9 kHz - 150 kHz	200 Hz	620 Hz	Auto	Peak	Max Hold	Spectrum Analyzer
	150 kHz - 30 MHz	9.1 kHz	27 kHz				

\* The test method was also referred to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E".

\*1) Peak hold was applied as Worst-case measurement.

\*2) KDB 789033 D02 says that RBW is set to be 500 kHz for 5.725 GHz-5.850 GHz, but it is not possible with spectrum analyzer, so RBW Correction Factor ( $10 \log(500 \text{ kHz} / 470 \text{ kHz})$ ) was added to the test result.

\*3) In the frequency range below 30 MHz, RBW was narrowed to separate the noise contents.

Then, wide-band noise near the limit was checked separately, however the noise was low enough as shown in the chart. (9 kHz-150 kHz: RBW = 200 Hz, 150 kHz-30 MHz: RBW = 9.1 kHz).

The test results and limit are rounded off to two decimals place, so some differences might be observed.

**Test data** : APPENDIX  
**Test result** : Pass

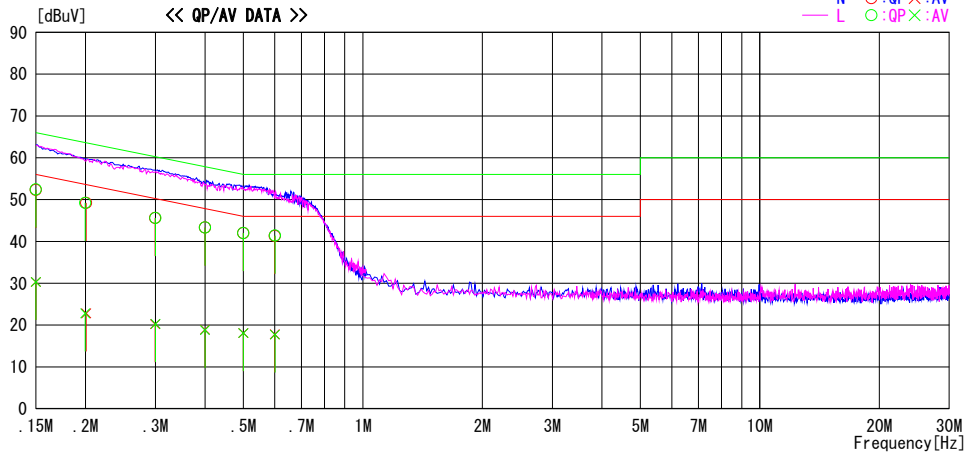


**APPENDIX 1: Test data**

**Conducted Emission**

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber  
Report No. : 12079942H  
Date : February 7, 2018  
Temperature / Humidity : 24 deg. C / 30 % RH  
Engineer : Takafumi Noguchi  
Mode : Tx 11ac-40 5550 MHz

LIMIT : FCC15.207 QP  
FCC15.207 AV



Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]	
0.15000	39.1	17.1	13.2	52.3	30.3	66.0	56.0	13.7	25.7	N
0.20092	36.0	9.6	13.2	49.2	22.8	63.6	53.6	14.4	30.8	N
0.29962	32.4	7.0	13.2	45.6	20.2	60.3	50.3	14.7	30.1	N
0.40018	30.0	5.6	13.3	43.3	18.9	57.8	47.8	14.5	28.9	N
0.50000	28.7	4.8	13.3	42.0	18.1	56.0	46.0	14.0	27.9	N
0.59965	28.0	4.5	13.3	41.3	17.8	56.0	46.0	14.7	28.2	N
0.15000	39.2	17.1	13.2	52.4	30.3	66.0	56.0	13.6	25.7	L
0.19986	36.0	9.6	13.2	49.2	22.8	63.6	53.6	14.4	30.8	L
0.30025	32.4	7.1	13.2	45.6	20.3	60.2	50.2	14.6	29.9	L
0.40010	30.0	5.5	13.3	43.3	18.8	57.9	47.9	14.6	29.1	L
0.49989	28.7	4.8	13.3	42.0	18.1	56.0	46.0	14.0	27.9	L
0.60018	28.1	4.4	13.3	41.4	17.7	56.0	46.0	14.6	28.3	L

CHART: WITH FACTOR Peak hold data. CALCULATION : RESULT = READING + C.F (LISN + CABLE + ATT)  
Except for the above table: adequate margin data below the limits.

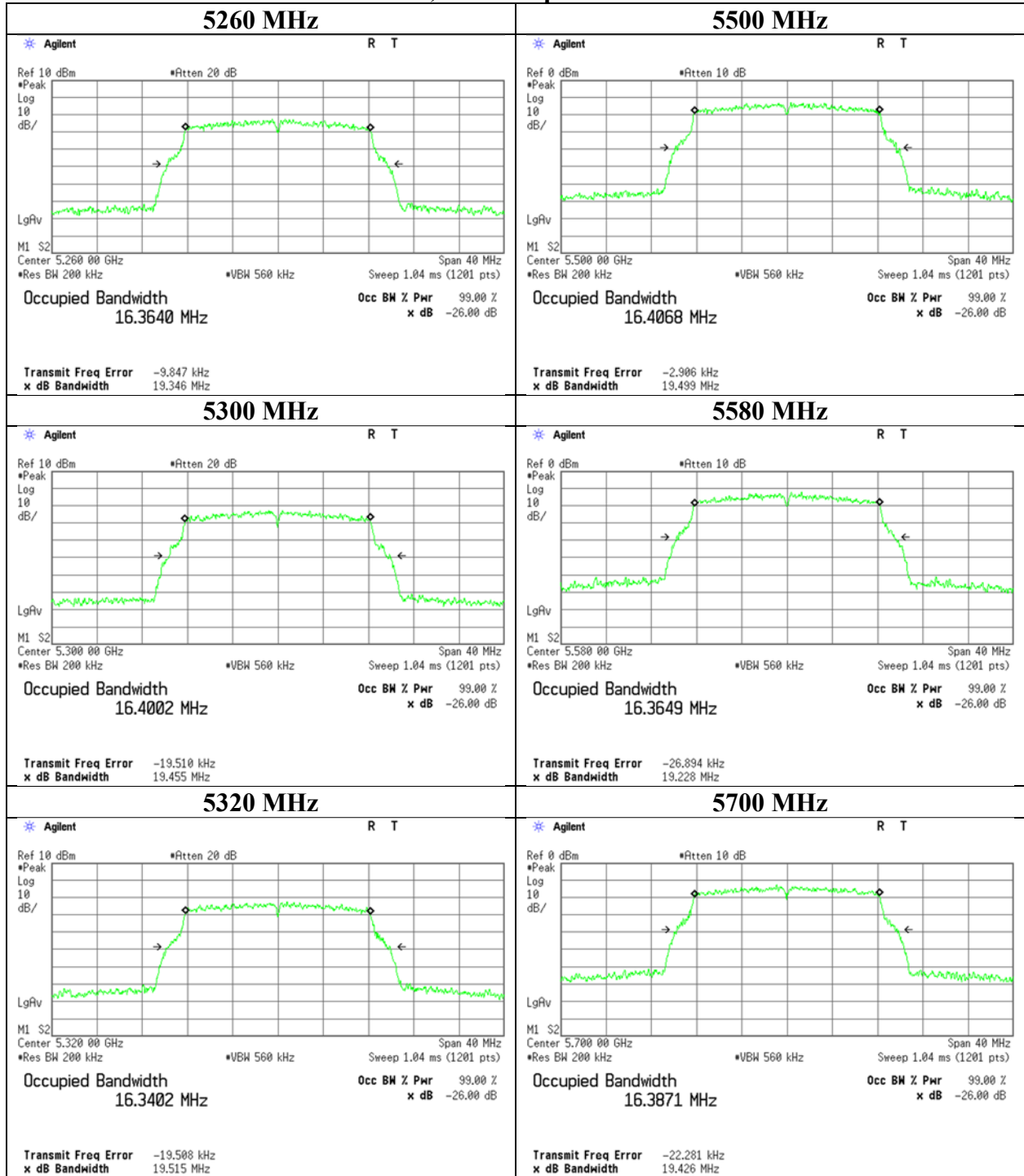
## 26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Test place Ise EMC Lab. No.3 Measurement Room  
Report No. 12079942H  
Date February 2, 2018 February 5, 2018  
Temperature / Humidity 24deg. C / 31 % RH 23deg. C / 35 % RH  
Engineer Takumi Shimada Takumi Shimada  
Mode Tx 11a

Antenna	Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
Antenna port WA	5180	-	16571.4
	5220	-	16517.3
	5240	-	16328.5
	5260	19.346	16574.0
	5300	19.455	16653.2
	5320	19.515	16618.7
	5500	19.499	16582.2
	5580	19.228	16686.9
	5700	19.426	16574.7
	5745	-	16545.4
	5785	-	16633.4
	5825	-	16669.3

## 26 dB Emission Bandwidth

### 11a, Antenna port WA



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**Ise EMC Lab.**

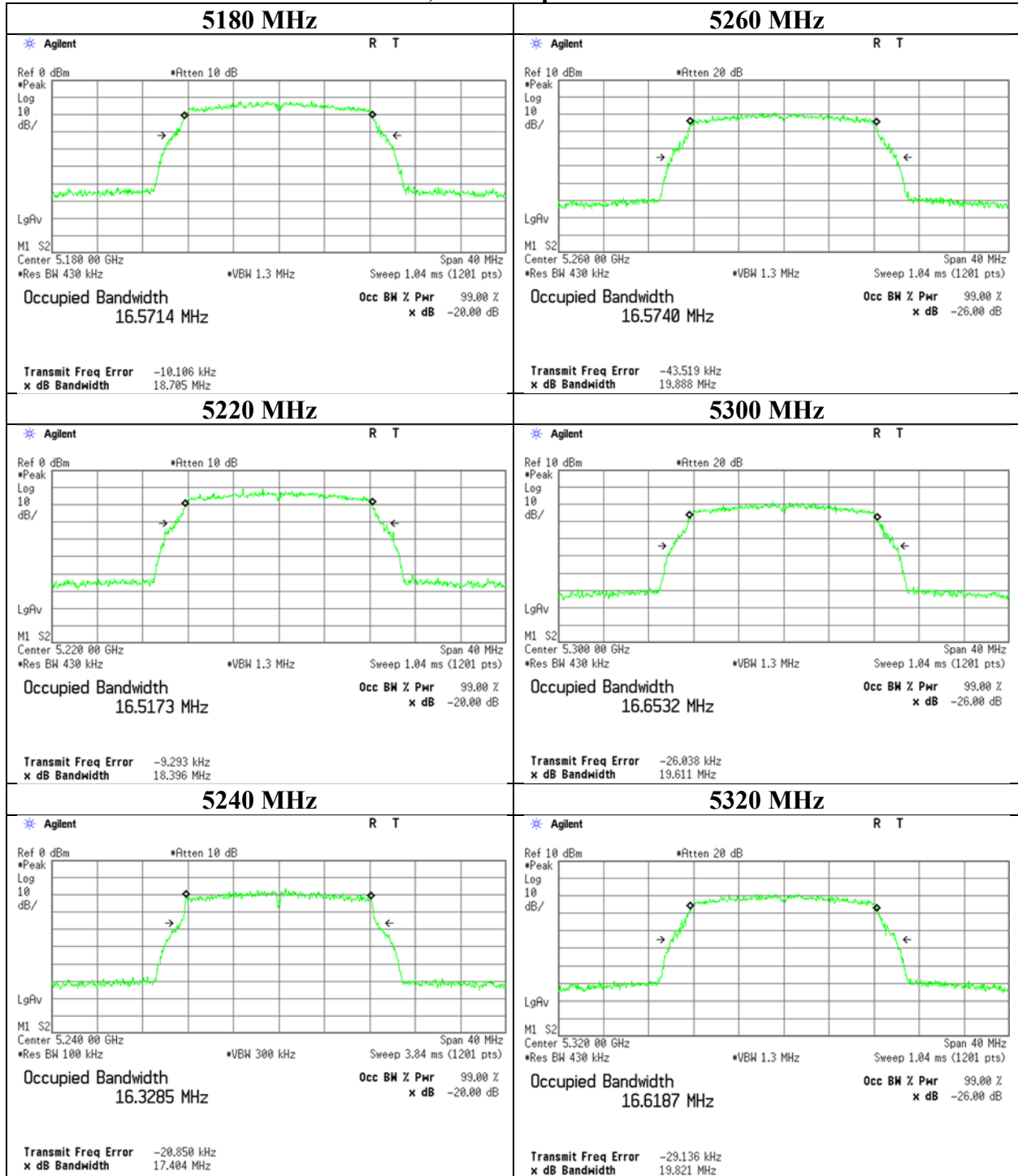
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Facsimile : +81 596 24 8124

## 99 % Occupied Bandwidth

### 11a, Antenna port WA



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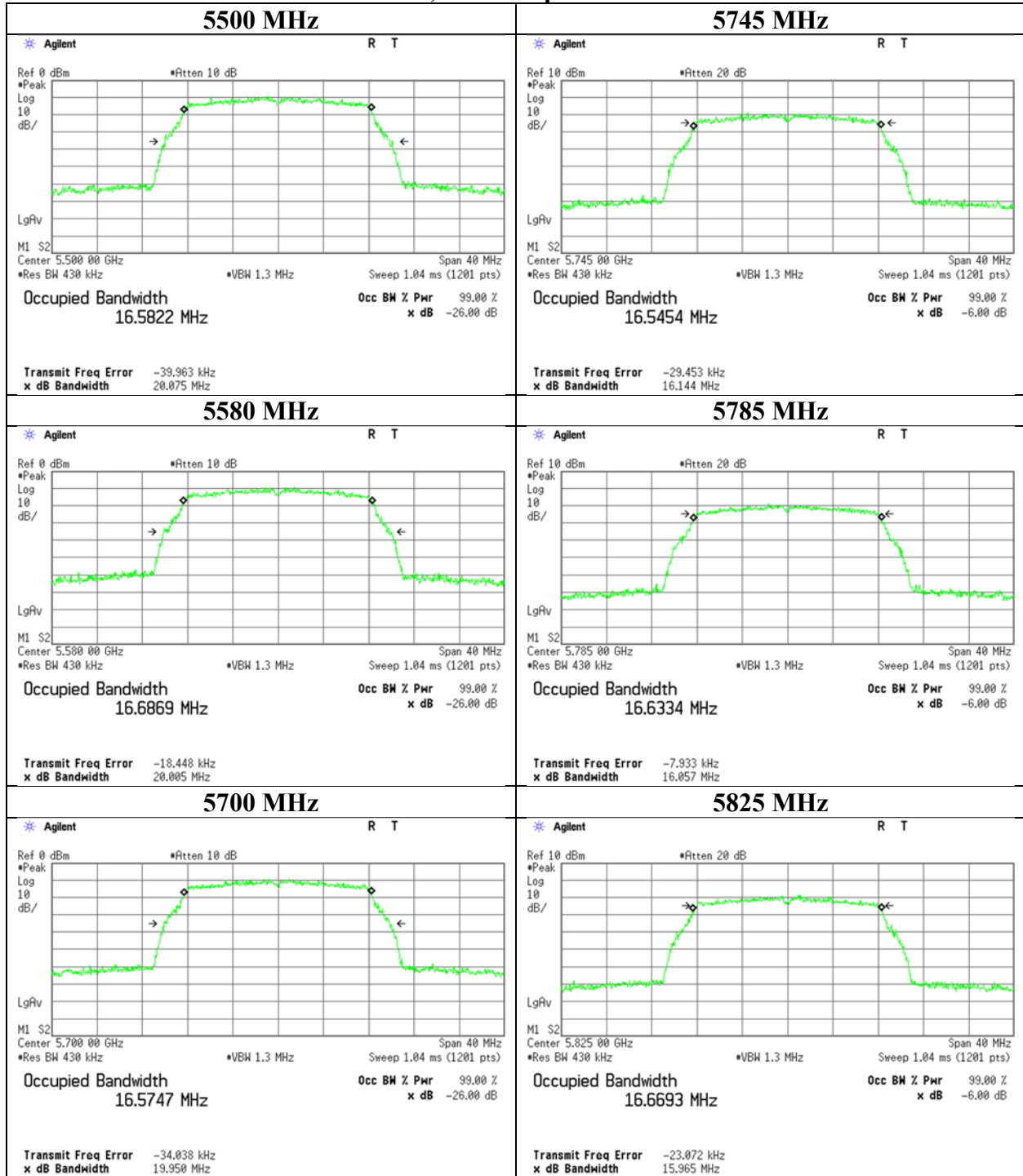
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Facsimile : +81 596 24 8124

## 99 % Occupied Bandwidth

### 11a, Antenna port WA



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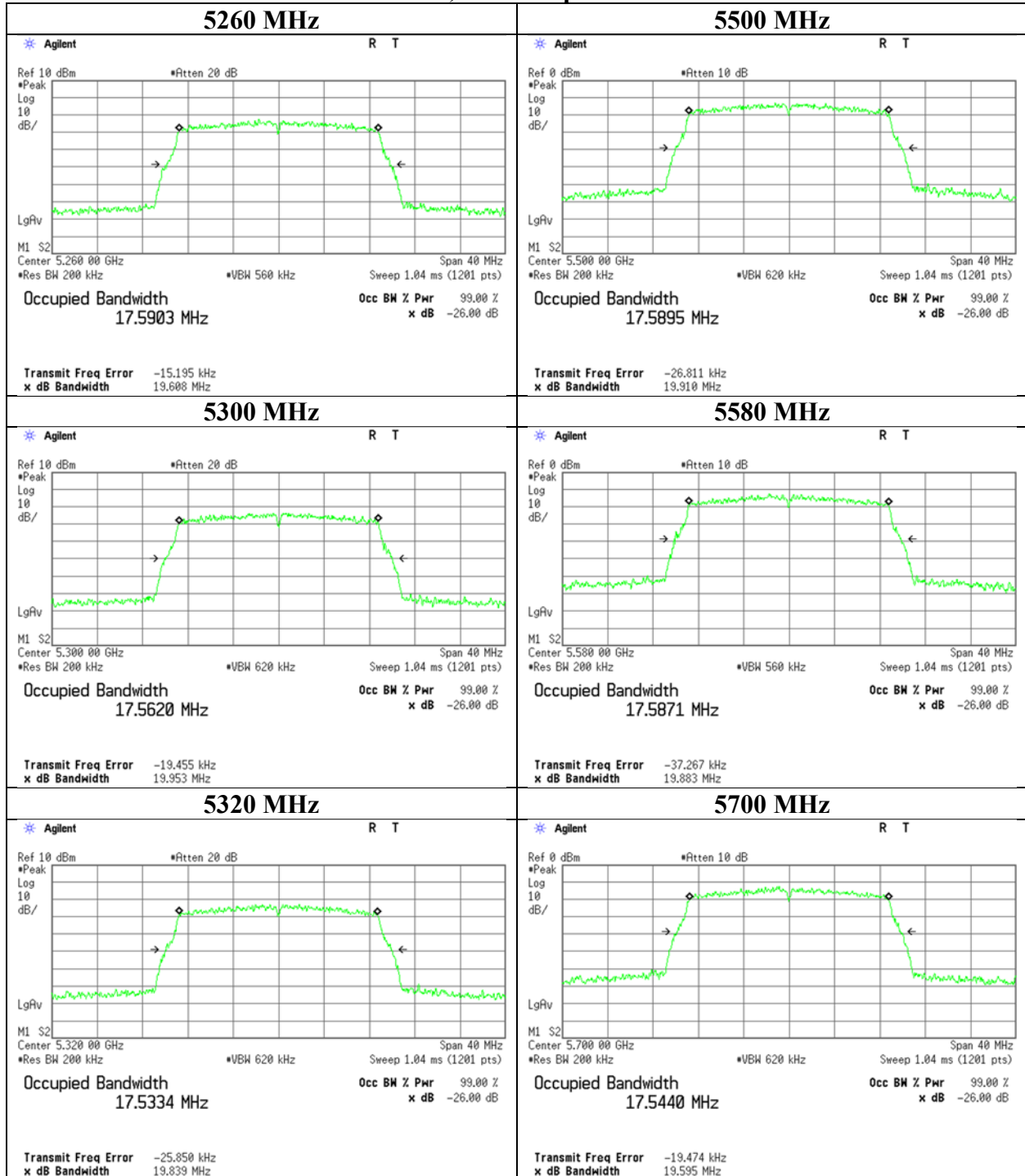
## 26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Test place Ise EMC Lab. No.3 Measurement Room  
Report No. 12079942H  
Date February 2, 2018 February 5, 2018  
Temperature / Humidity 24deg. C / 31 % RH 23deg. C / 35 % RH  
Engineer Takumi Shimada Takumi Shimada  
Mode Tx 11n-20

Antenna	Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
Antenna port WA	5180	-	17729.0
	5220	-	17752.4
	5240	-	17682.6
	5260	19.608	17697.3
	5300	19.953	17649.0
	5320	19.839	17673.1
	5500	19.910	17692.6
	5580	19.883	17696.8
	5700	19.595	17724.6
	5745	-	17735.4
	5785	-	17680.0
	5825	-	17663.0

## 26 dB Emission Bandwidth

### 11n-20, Antenna port WA



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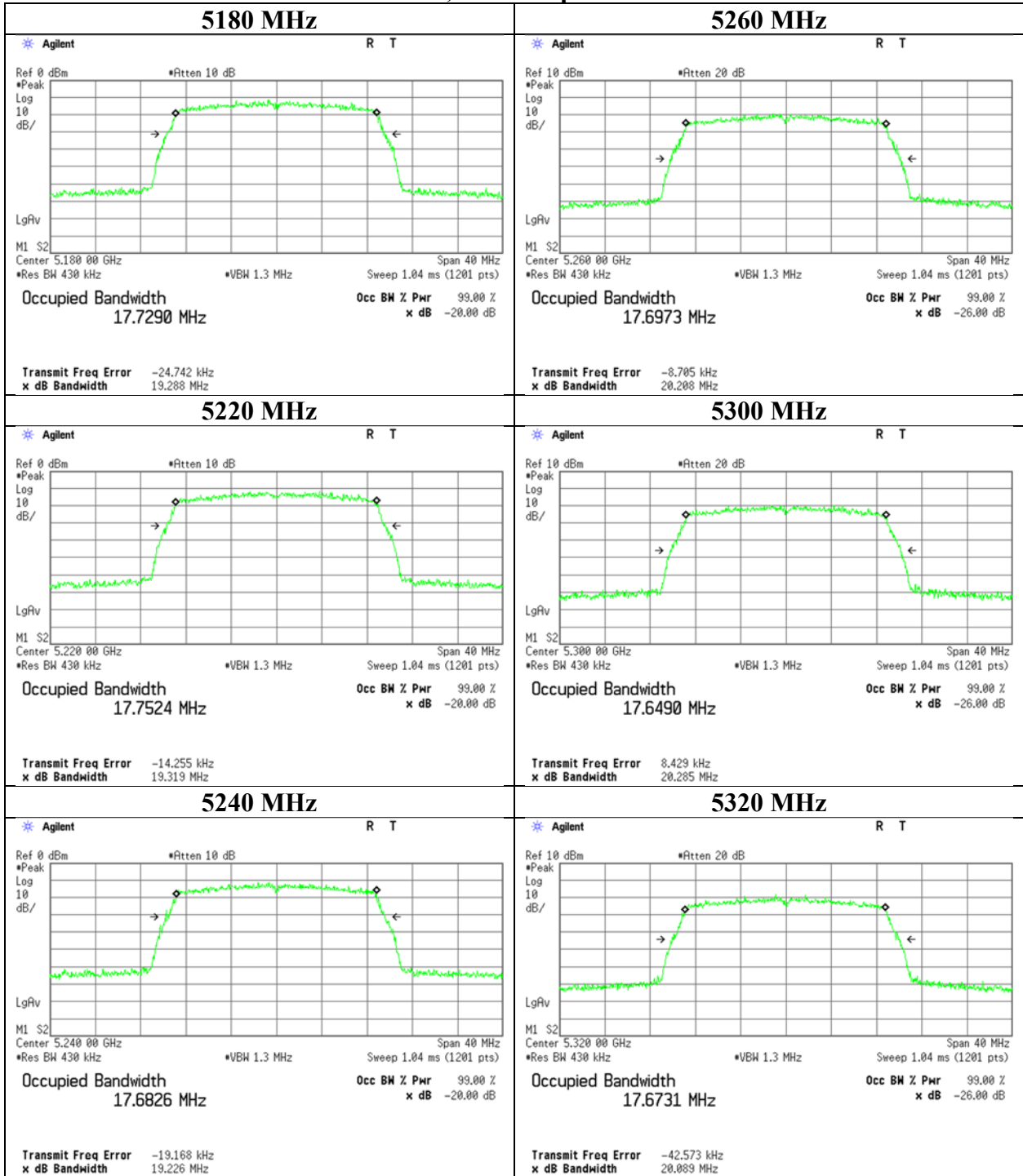
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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## 99 % Occupied Bandwidth

### 11n-20, Antenna port WA



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**Ise EMC Lab.**

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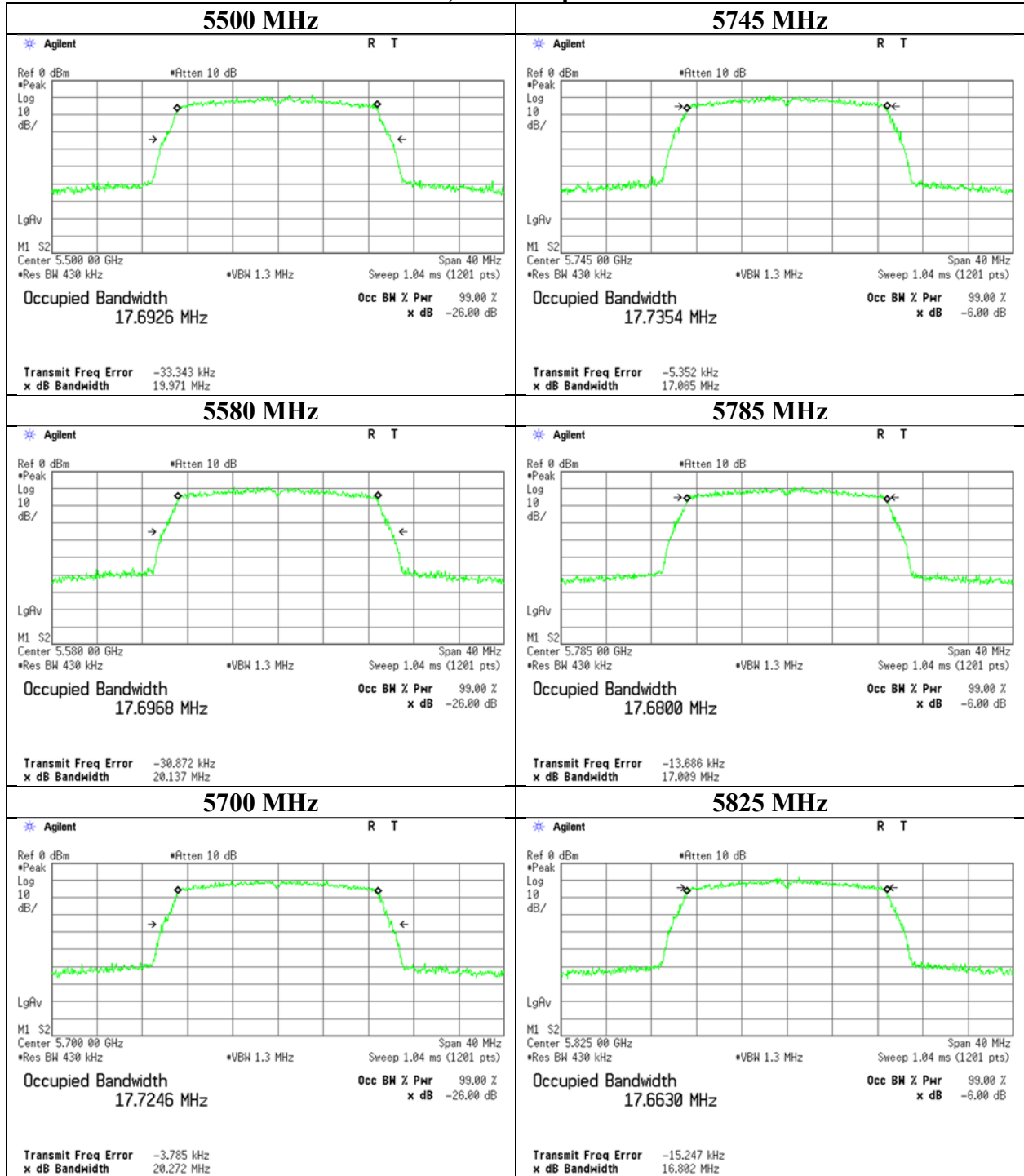
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## 99 % Occupied Bandwidth

### 11n-20, Antenna port WA



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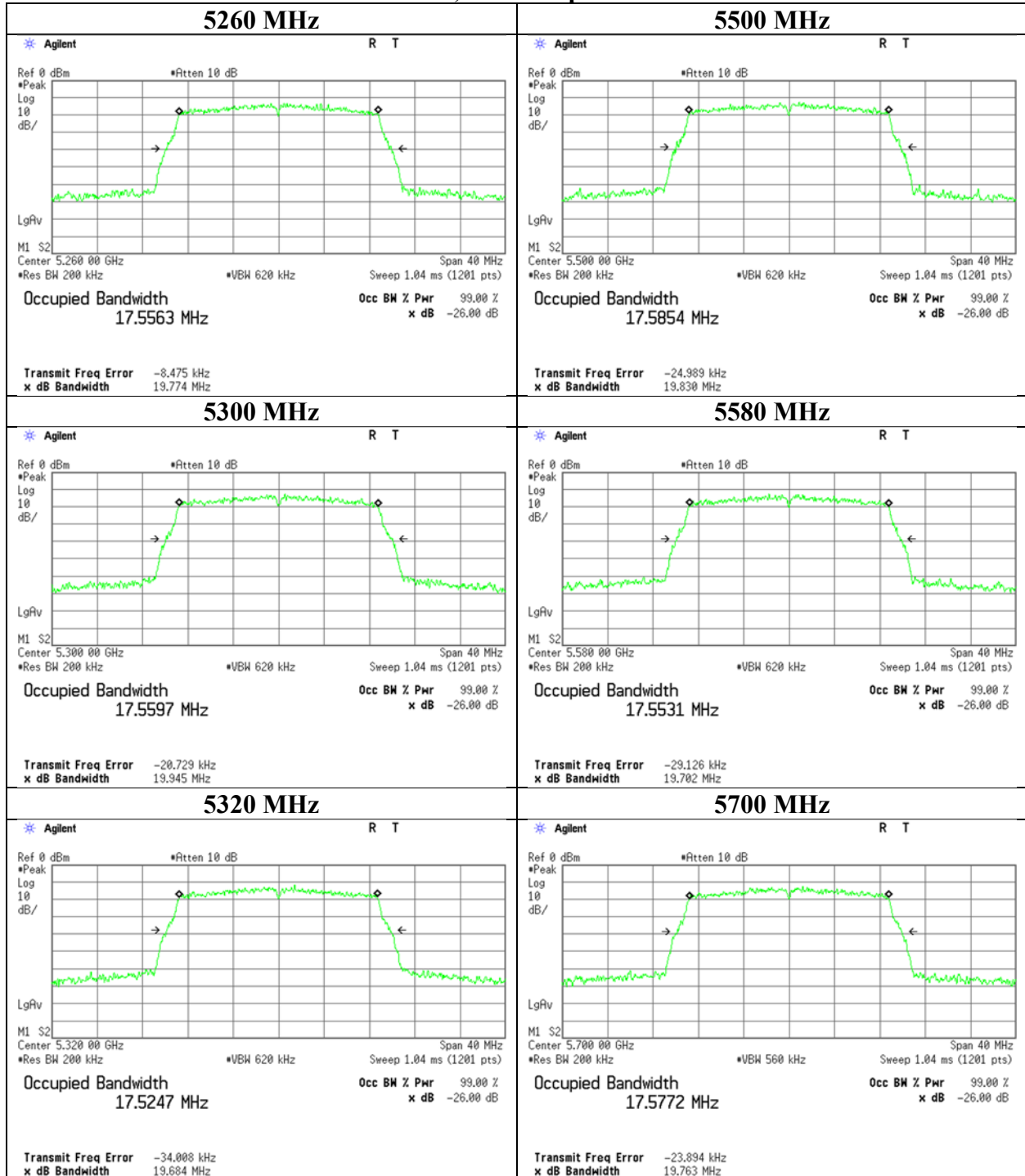
## 26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Test place Ise EMC Lab. No.3 Measurement Room  
Report No. 12079942H  
Date February 2, 2018 February 5, 2018  
Temperature / Humidity 24deg. C / 31 % RH 23deg. C / 35 % RH  
Engineer Takumi Shimada Takumi Shimada  
Mode Tx 11ac-20

Antenna	Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
Antenna port WA	5180	-	17688.9
	5220	-	17683.7
	5240	-	17628.0
	5260	19.774	17700.9
	5300	19.945	17707.1
	5320	19.684	17667.5
	5500	19.830	17626.0
	5580	19.702	17689.8
	5700	19.763	17710.4
	5745	-	17737.3
	5785	-	17693.2
	5825	-	17713.1

## 26 dB Emission Bandwidth

### 11ac-20, Antenna port WA



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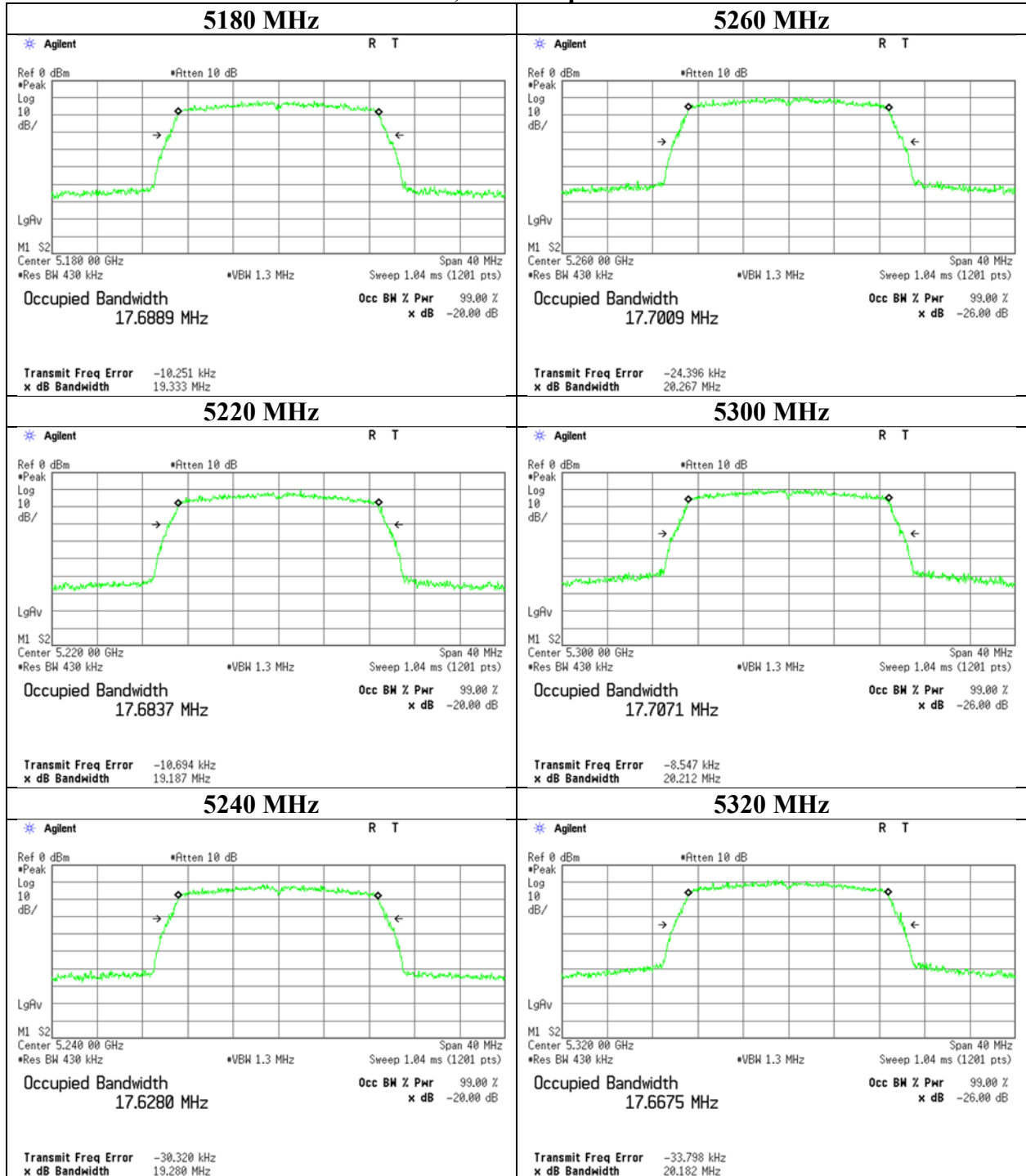
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## 99 % Occupied Bandwidth

### 11ac-20, Antenna port WA



**UL Japan, Inc.**

**Ise EMC Lab.**

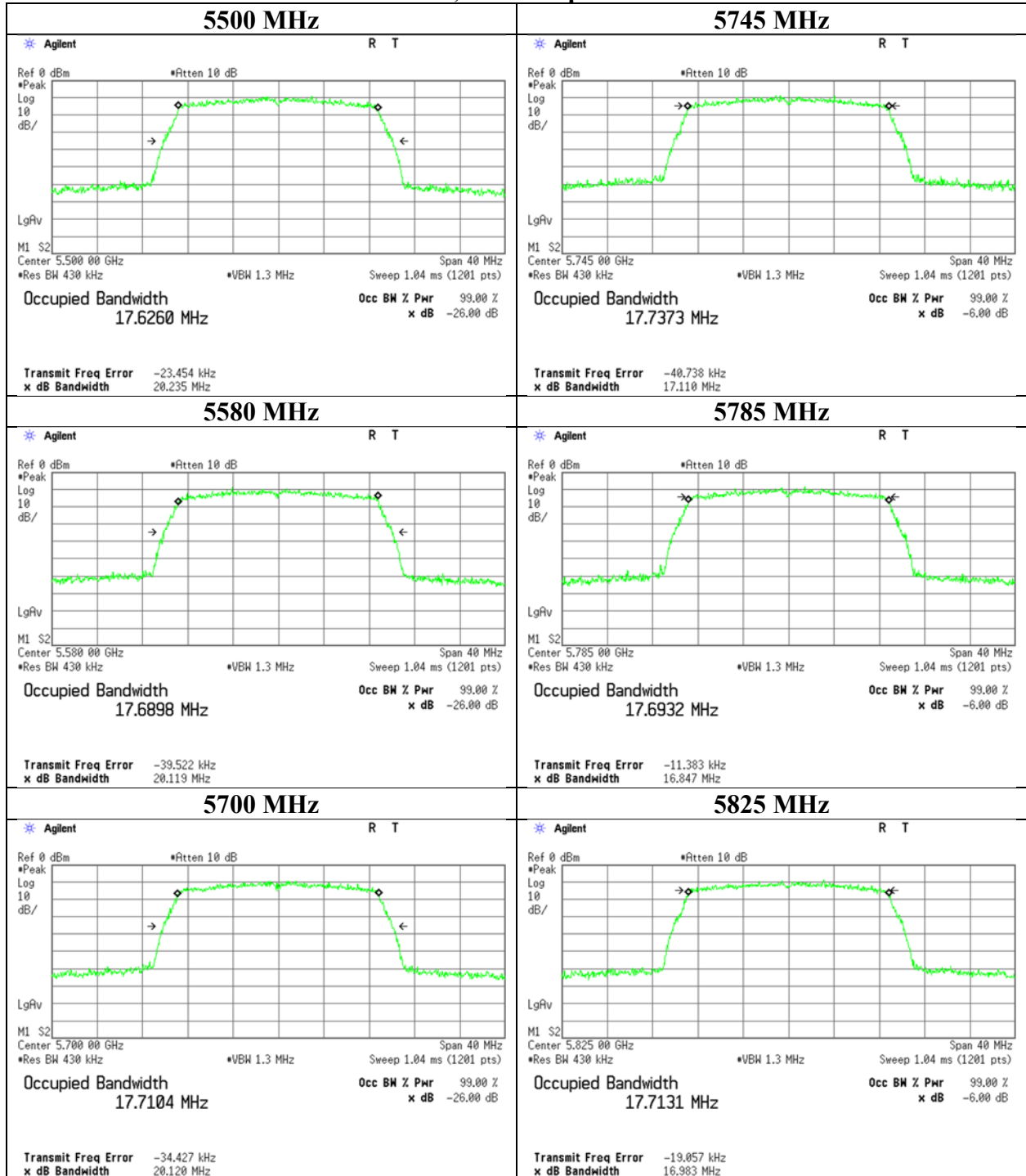
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## 99 % Occupied Bandwidth

### 11ac-20, Antenna port WA



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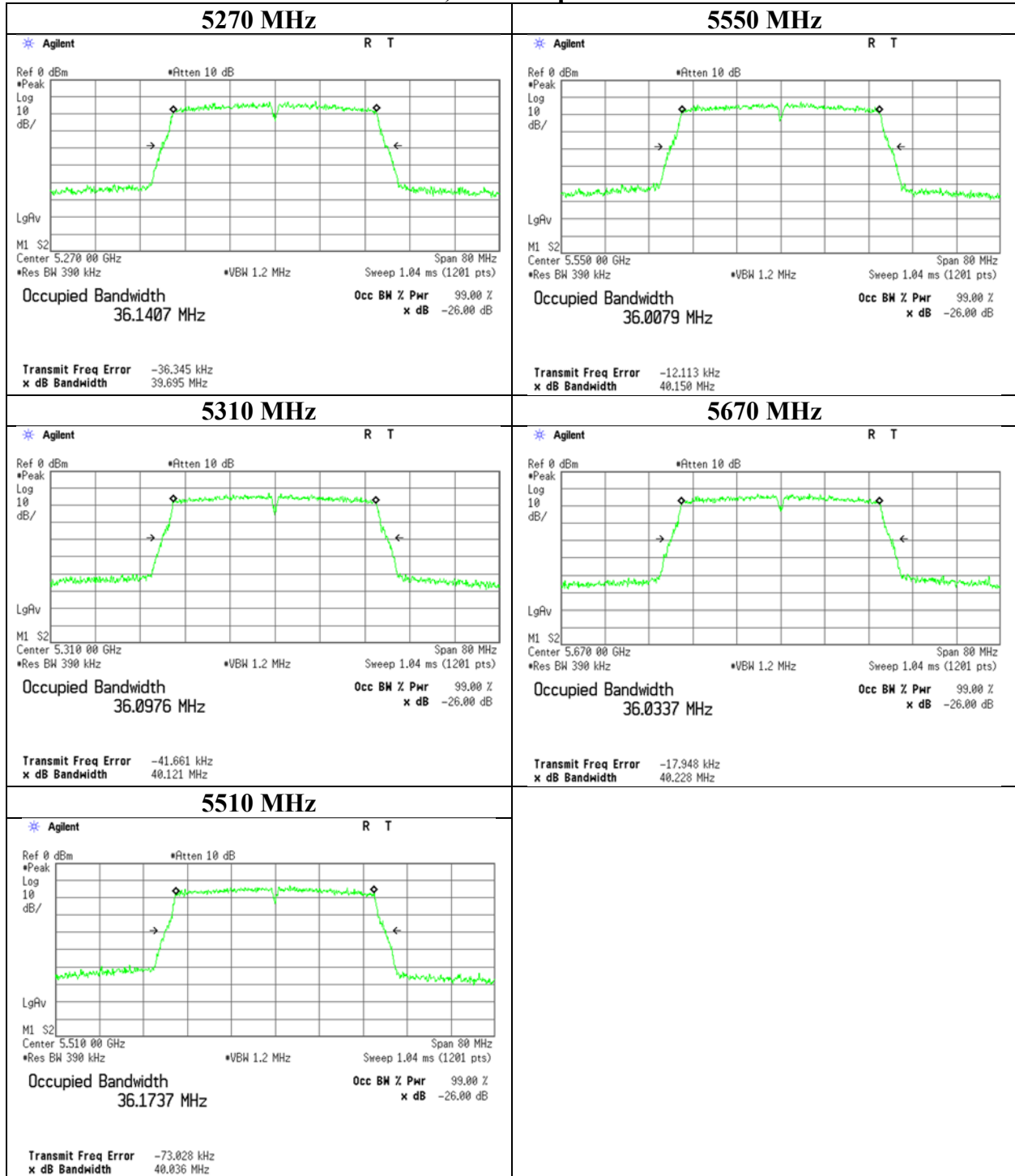
## 26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Test place Ise EMC Lab. No.3 Measurement Room  
Report No. 12079942H  
Date February 2, 2018 February 5, 2018  
Temperature / Humidity 24deg. C / 31 % RH 23deg. C / 35 % RH  
Engineer Takumi Shimada Takumi Shimada  
Mode Tx 11n-40

Antenna	Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
Antenna Port WA	5190	-	36171.8
	5230	-	36190.6
	5270	39.695	36131.7
	5310	40.121	36258.7
	5510	40.036	36258.5
	5550	40.150	36242.0
	5670	40.228	36237.8
	5755	-	36250.3
5795	-	36168.6	

## 26 dB Emission Bandwidth

### 11n-40, Antenna port WA



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**Ise EMC Lab.**

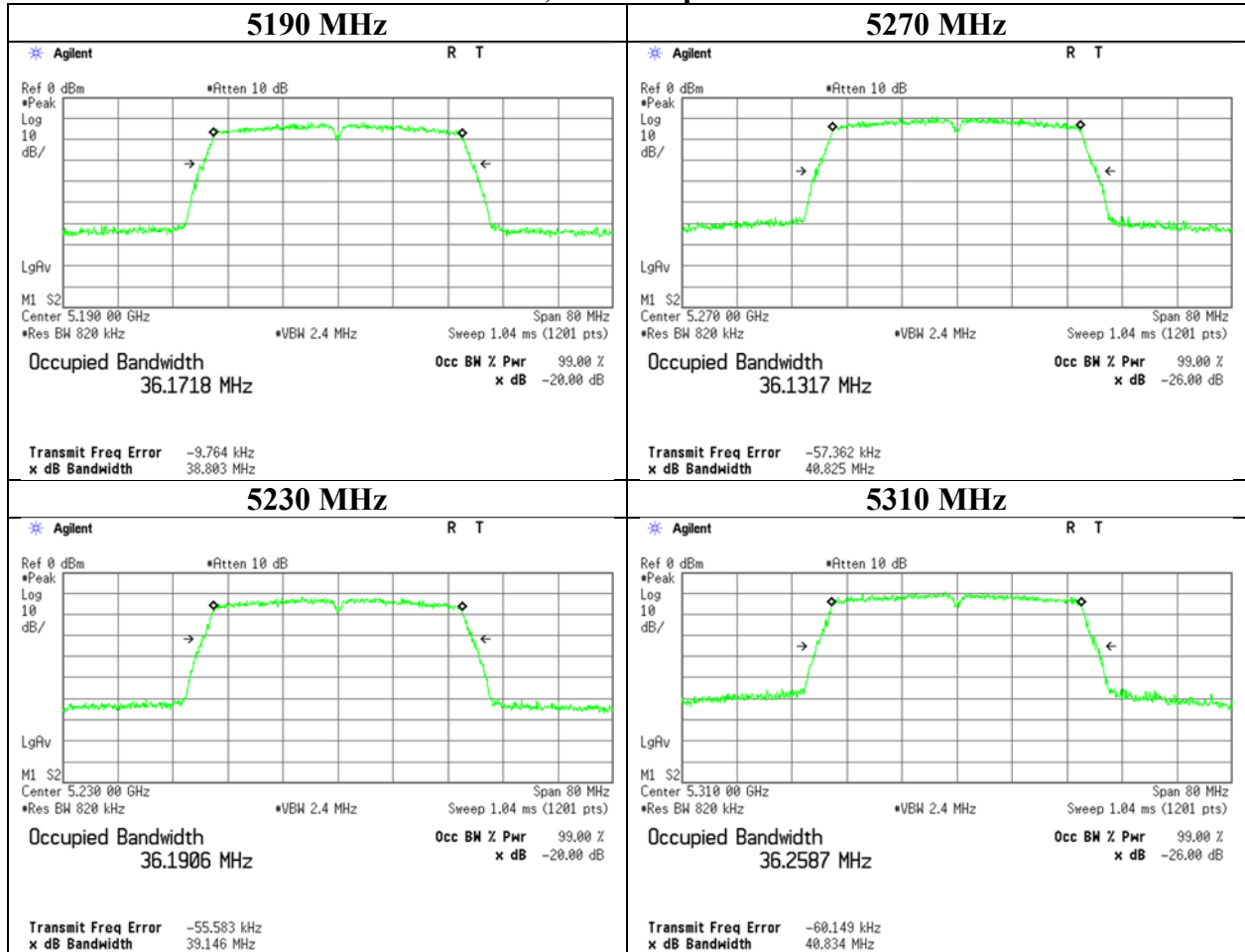
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## 99 % Occupied Bandwidth

### 11n-40, Antenna port WA



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**Ise EMC Lab.**

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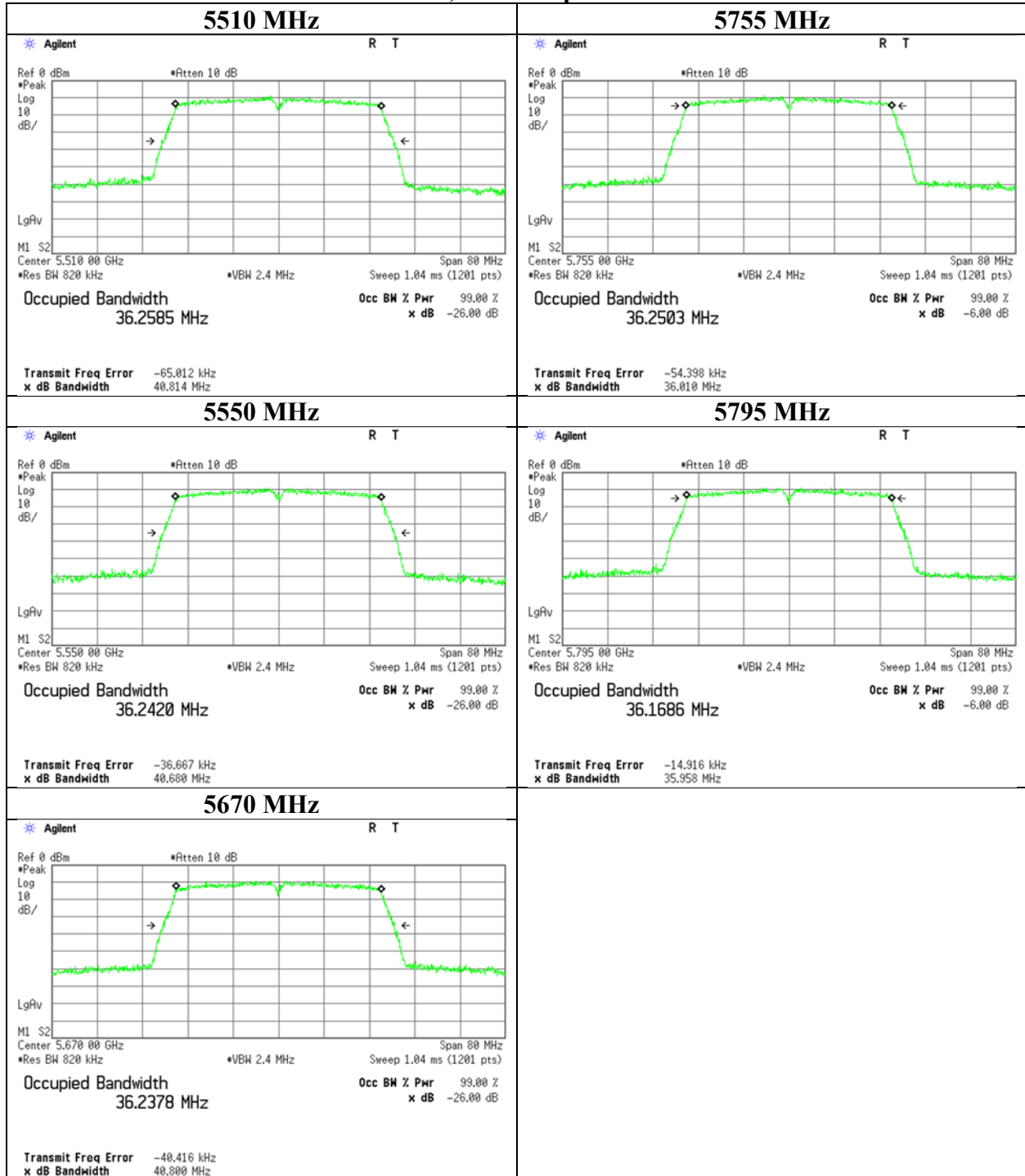
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Facsimile : +81 596 24 8124



## 99 % Occupied Bandwidth

### 11n-40, Antenna port WA



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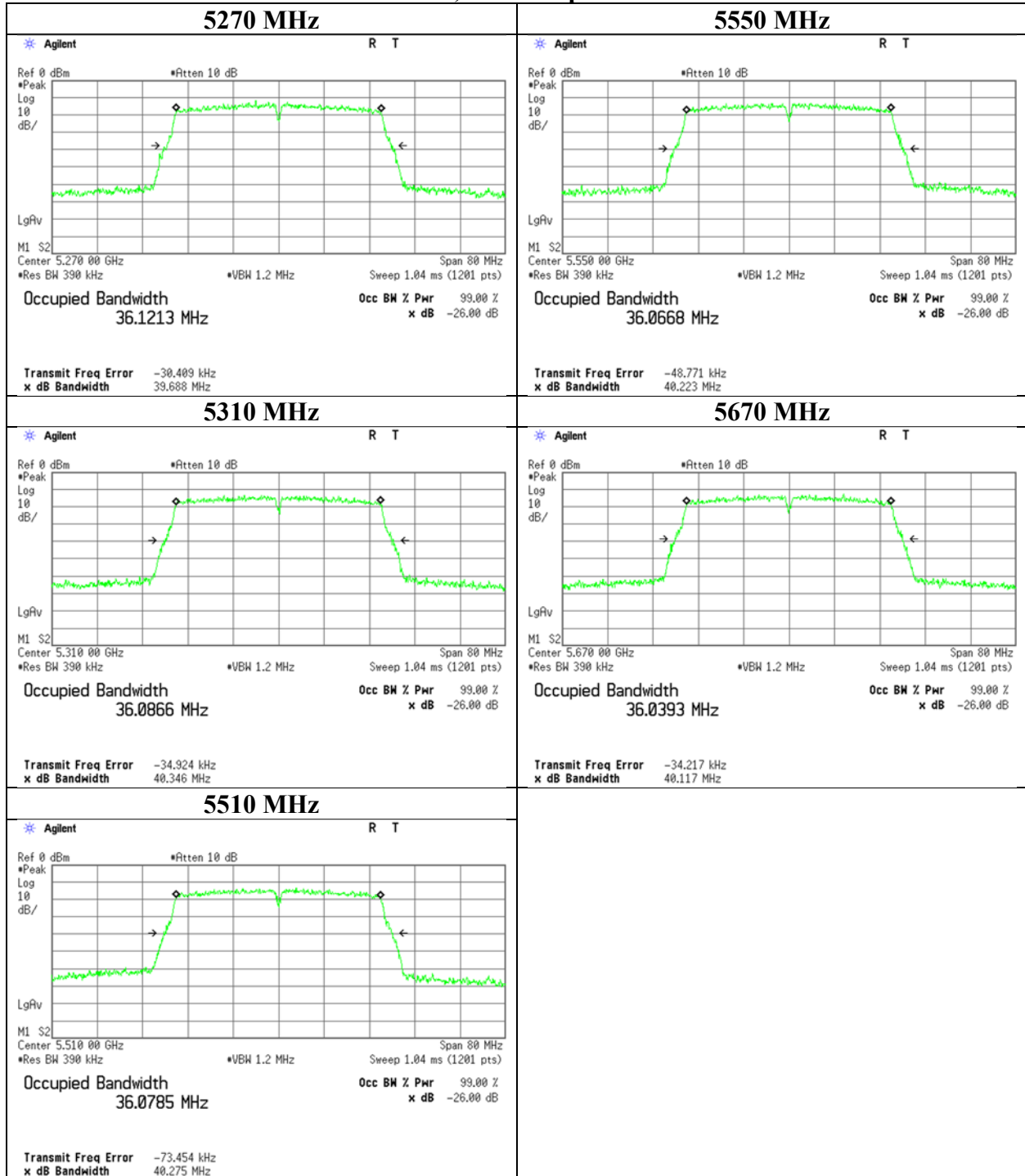
## 26 dB Emission Bandwidth and 99 % Occupied Bandwidth

Test place Ise EMC Lab. No.3 Measurement Room  
Report No. 12079942H  
Date February 2, 2018 February 5, 2018  
Temperature / Humidity 24deg. C / 31 % RH 23deg. C / 35 % RH  
Engineer Takumi Shimada Takumi Shimada  
Mode Tx 11ac-40

Antenna	Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
Antenna Port WA	5190	-	36288.4
	5230	-	36309.8
	5270	39.688	36192.2
	5310	40.346	36144.1
	5510	40.275	36236.7
	5550	40.223	36224.0
	5670	40.117	36267.8
	5755	-	36266.3
5795	-	36192.6	

## 26 dB Emission Bandwidth

### 11ac-40, Antenna port WA



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**Ise EMC Lab.**

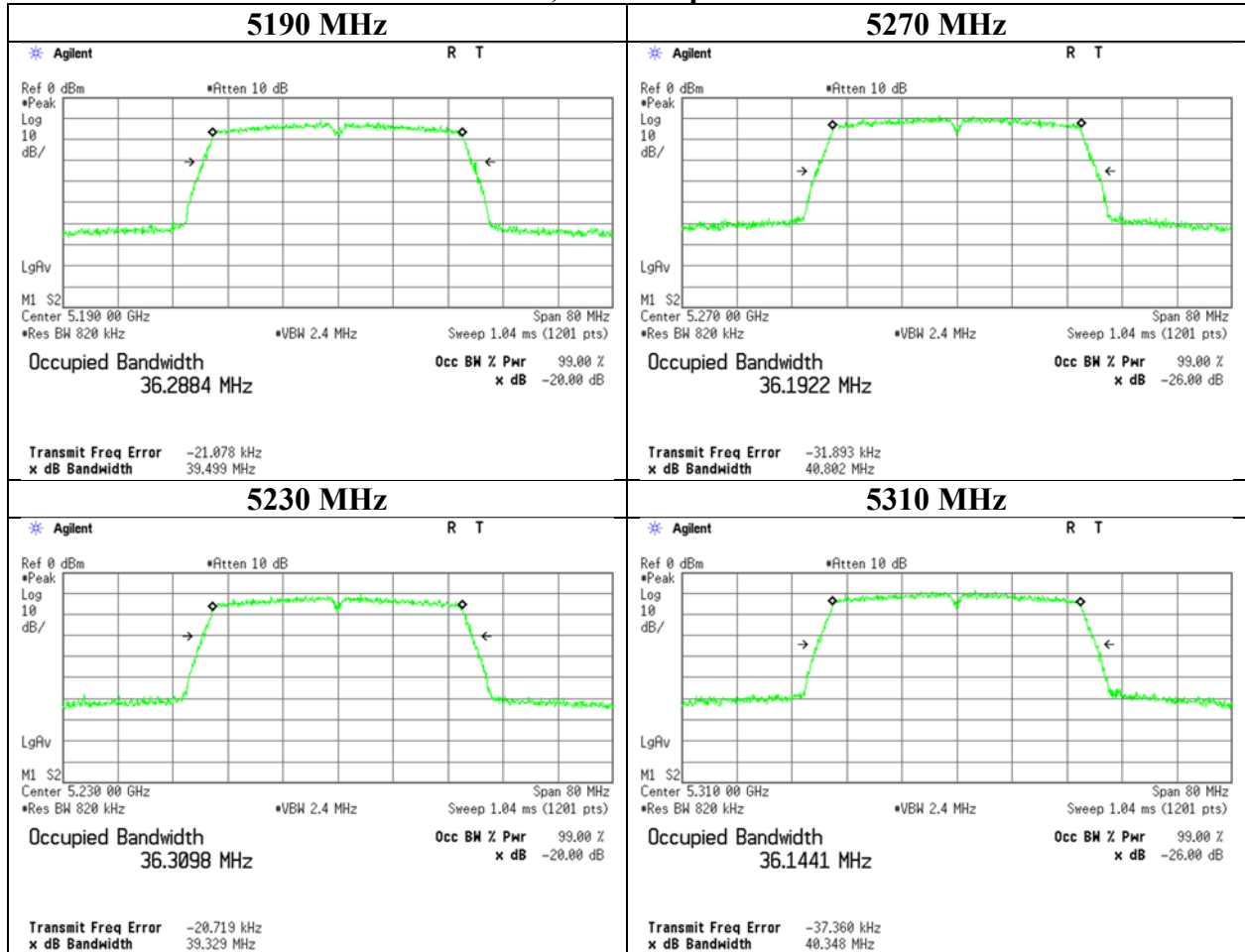
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## 99 % Occupied Bandwidth

### 11ac-40, Antenna port WA



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**Ise EMC Lab.**

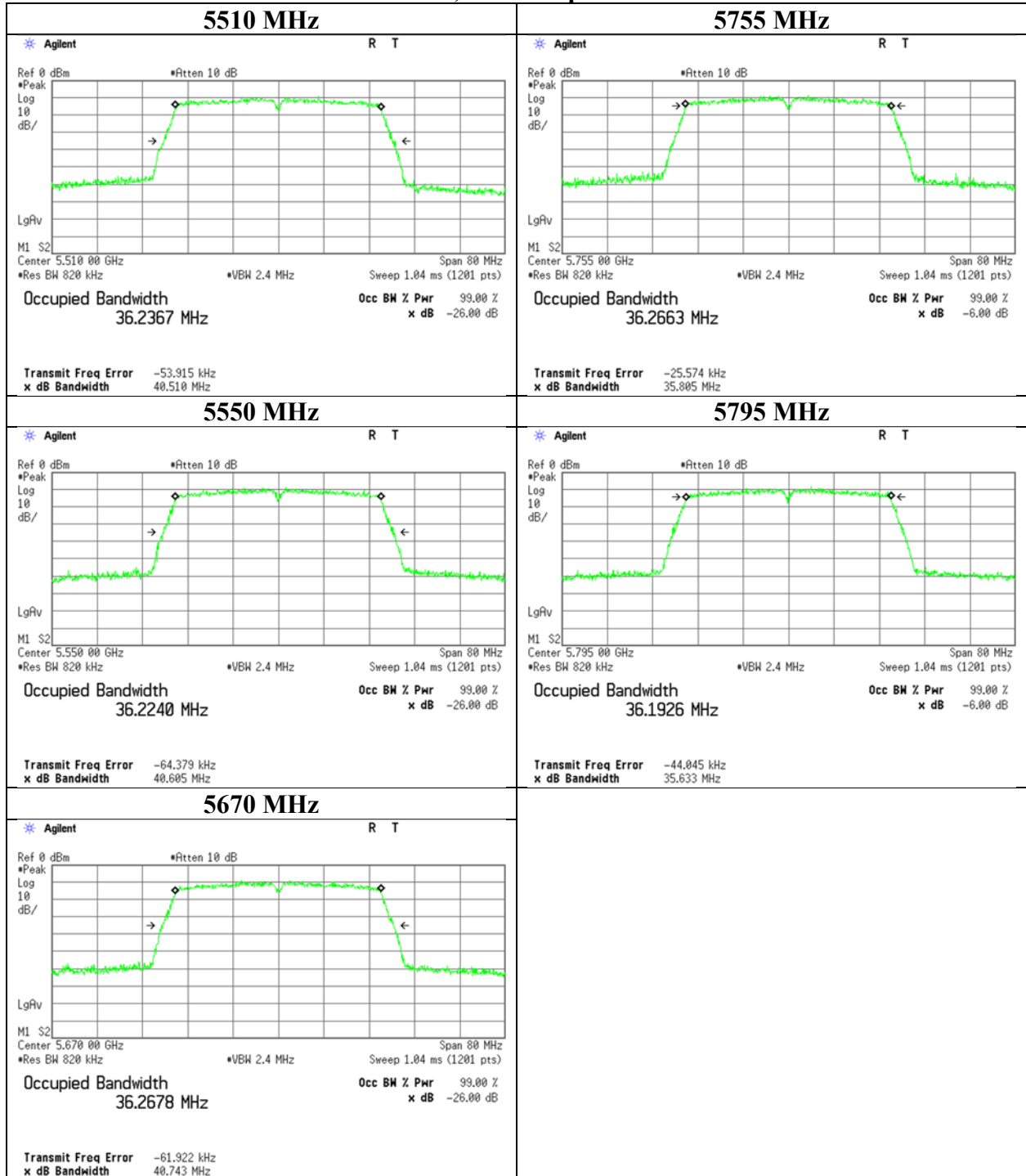
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## 99 % Occupied Bandwidth

### 11ac-40, Antenna port WA



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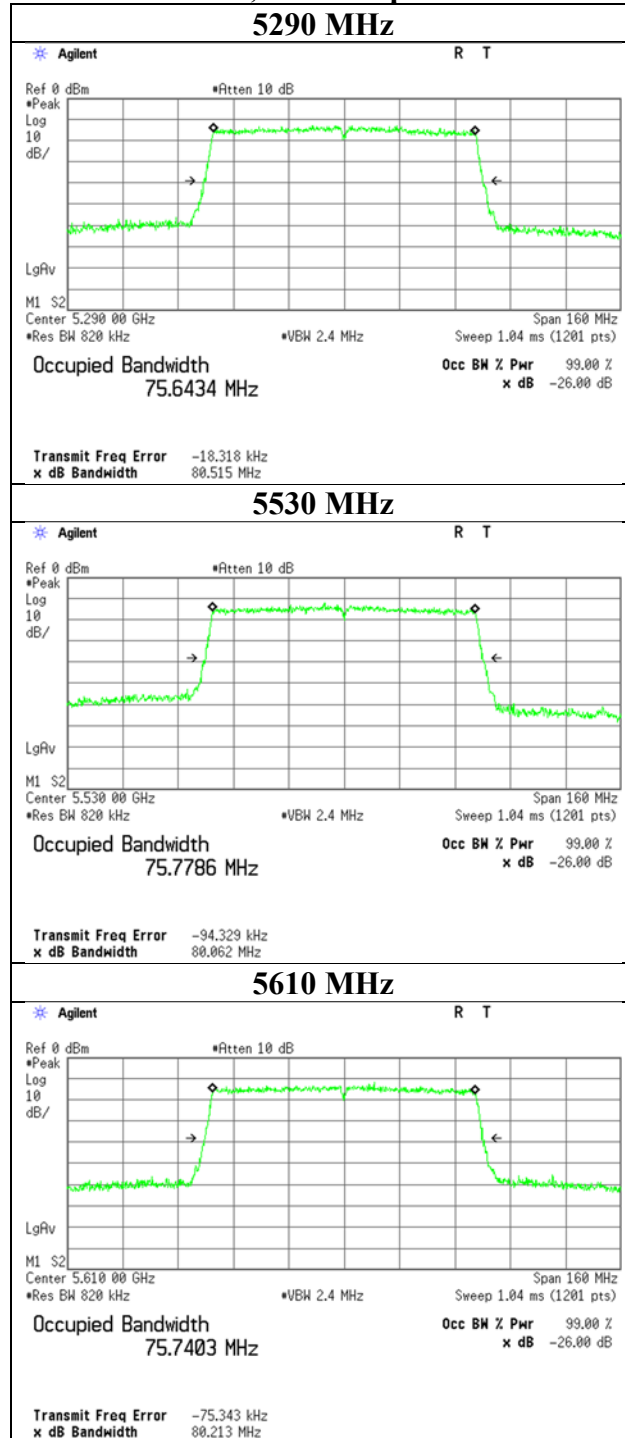
## **26 dB Emission Bandwidth and 99 % Occupied Bandwidth**

Test place                                   Ise EMC Lab. No.3 Measurement Room  
Report No.                                   12079942H  
Date   February 2, 2018                           February 5, 2018  
Temperature / Humidity                   24deg. C / 31 % RH                   23deg. C / 35 % RH  
Engineer                                    Takumi Shimada                           Takumi Shimada  
Mode   Tx 11ac-80

Antenna	Tested Frequency [MHz]	26 dB Emission Bandwidth [MHz]	99 % Occupied Bandwidth [kHz]
Antenna Port WA	5210	-	75838.0
	5290	80.515	75805.1
	5530	80.062	75916.8
	5610	80.213	75925.8
	5775	-	75789.0

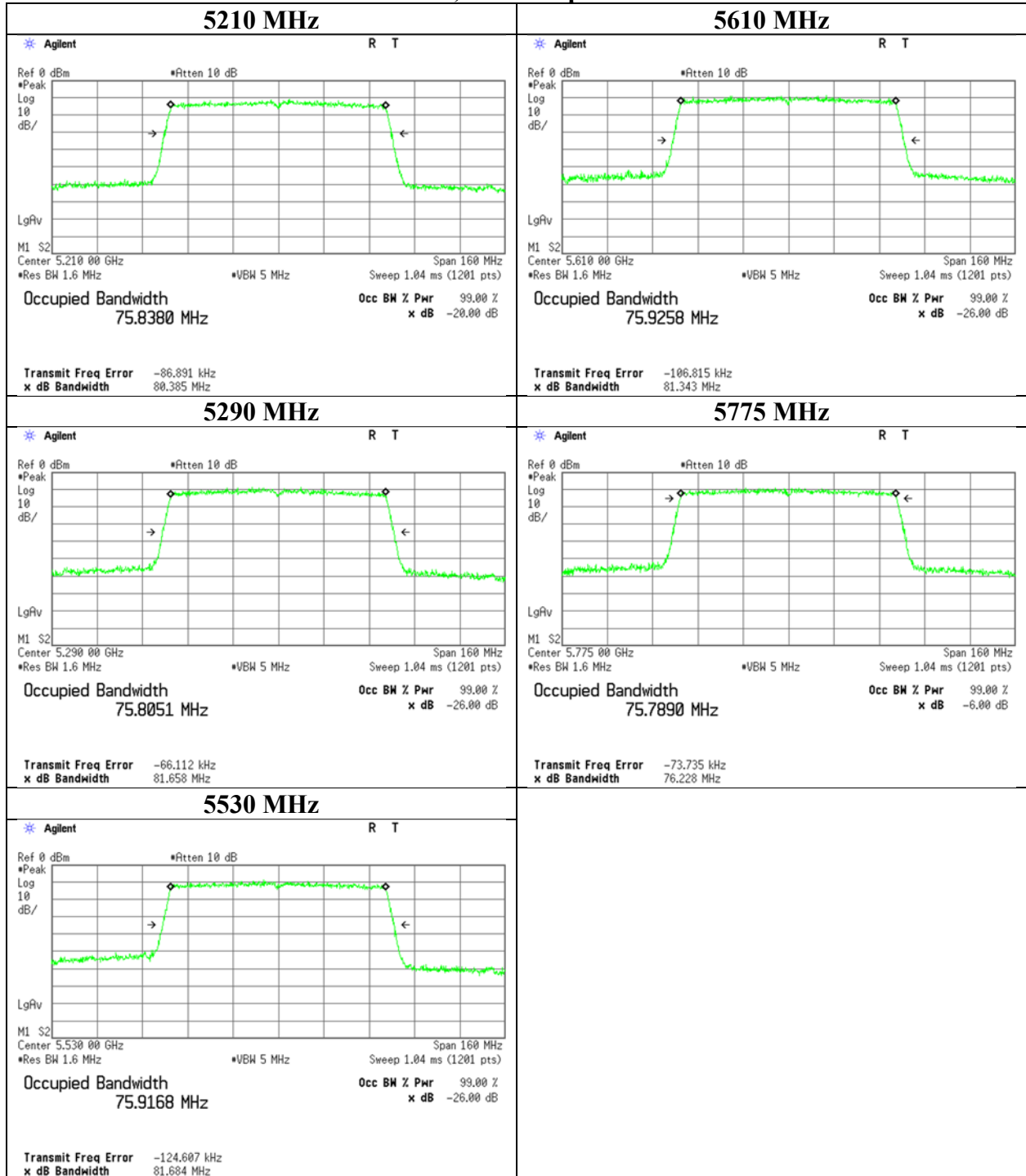
## 26 dB Emission Bandwidth

### 11ac-80, Antenna port WA



## 99 % Occupied Bandwidth

### 11ac-80, Antenna port WA



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## 6 dB Bandwidth

Test place Ise EMC Lab. No.3 Measurement Room  
Report No. 12079942H  
Date February 2, 2018 February 5, 2018  
Temperature / Humidity 24deg. C / 31 % RH 23deg. C / 35 % RH  
Engineer Takumi Shimada Takumi Shimada  
Mode Tx

### 11a

Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
5745	16.451	> 500
5785	16.325	> 500
5825	16.397	> 500

### 11n-20

Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
5745	17.536	> 500
5785	17.538	> 500
5825	17.672	> 500

### 11ac-20

Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
5745	17.590	> 500
5785	17.642	> 500
5825	17.480	> 500

### 11n-40

Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
5755	36.451	> 500
5795	36.343	> 500

### 11ac-40

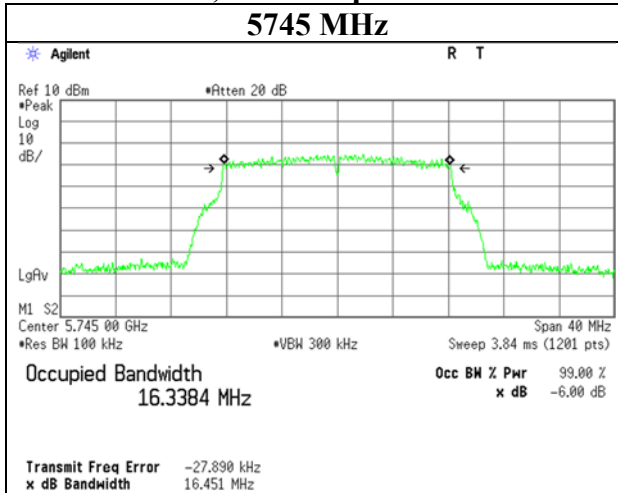
Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
5755	36.403	> 500
5795	36.408	> 500

### 11ac-80

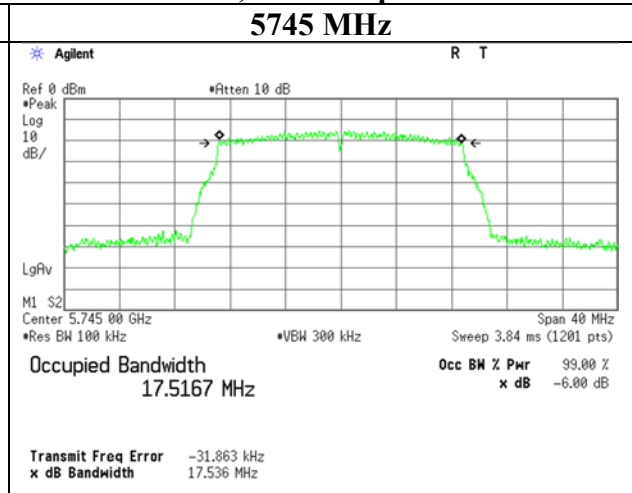
Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
5775	76.571	> 500

### 6 dB Bandwidth

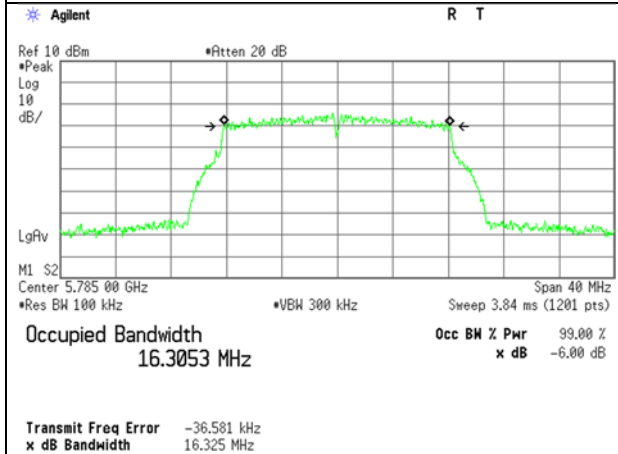
#### 11a, Antenna port WA



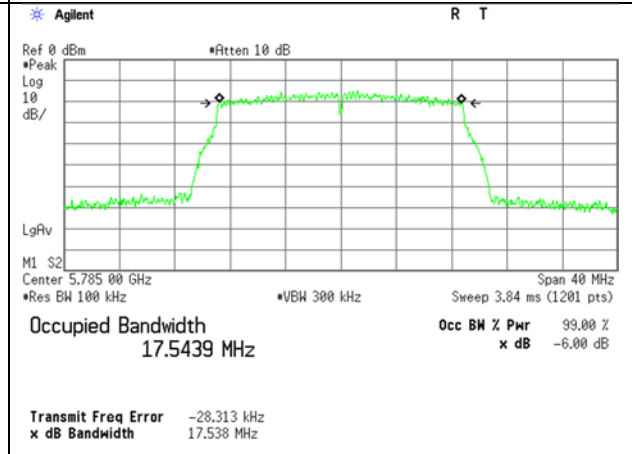
#### 11n-20, Antenna port WA



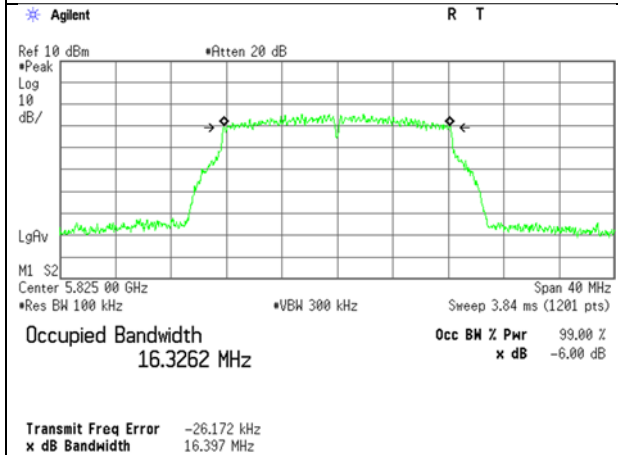
#### 5785 MHz



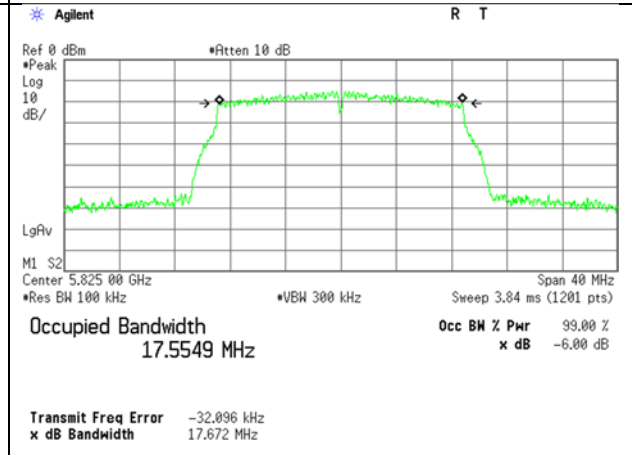
#### 5785 MHz



#### 5825 MHz



#### 5825 MHz



**UL Japan, Inc.**

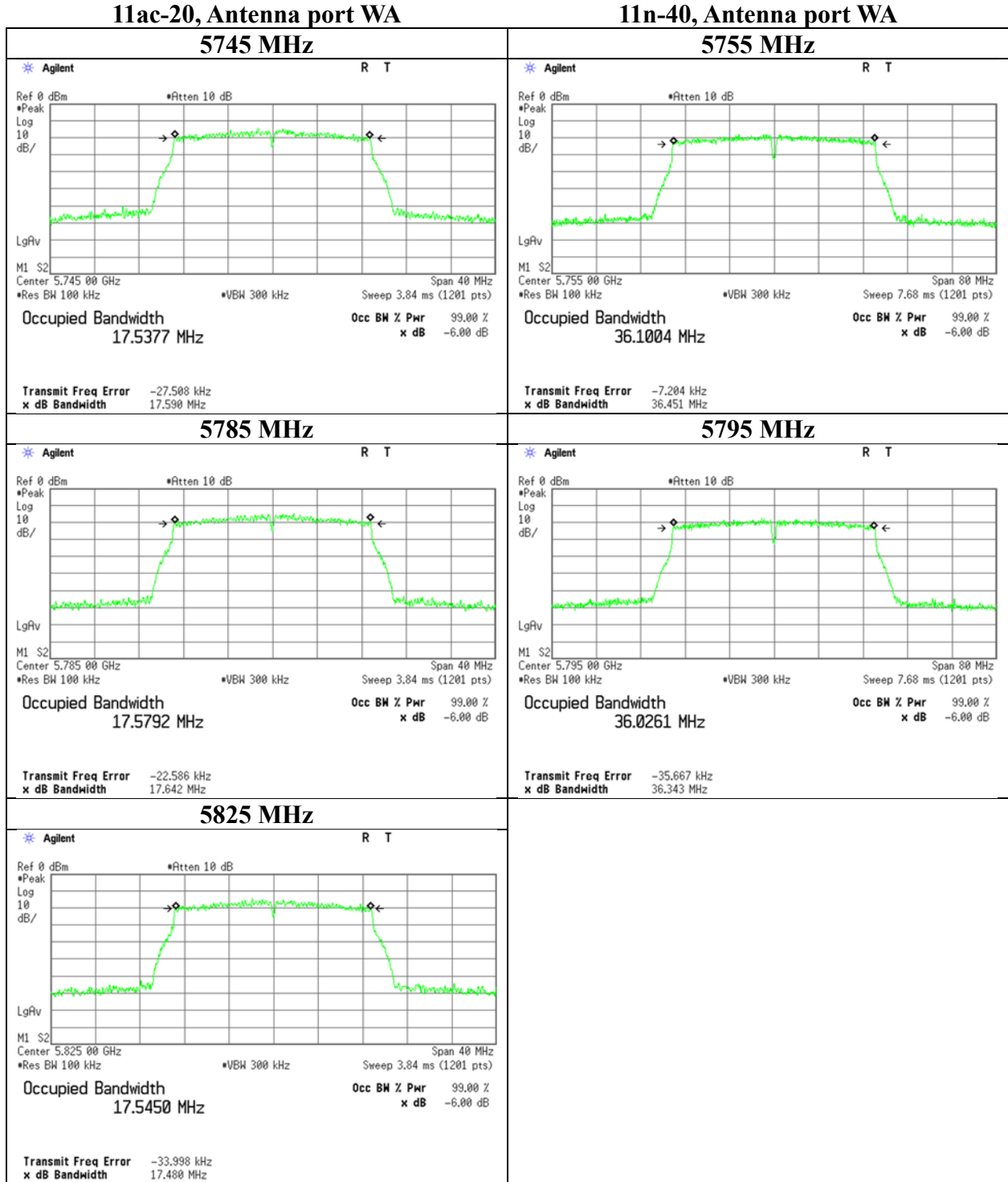
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### 6 dB Bandwidth



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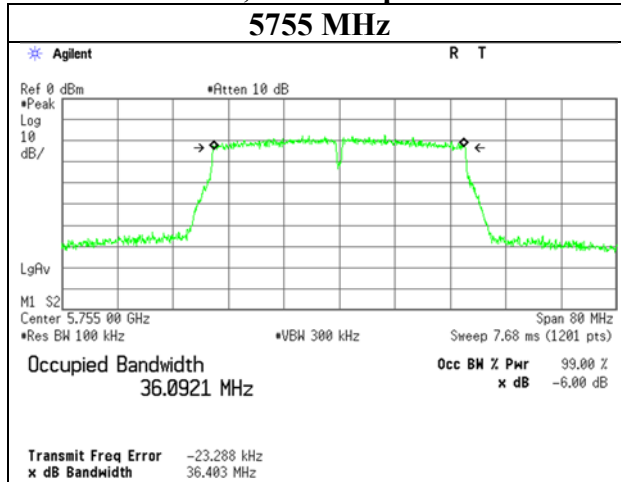
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

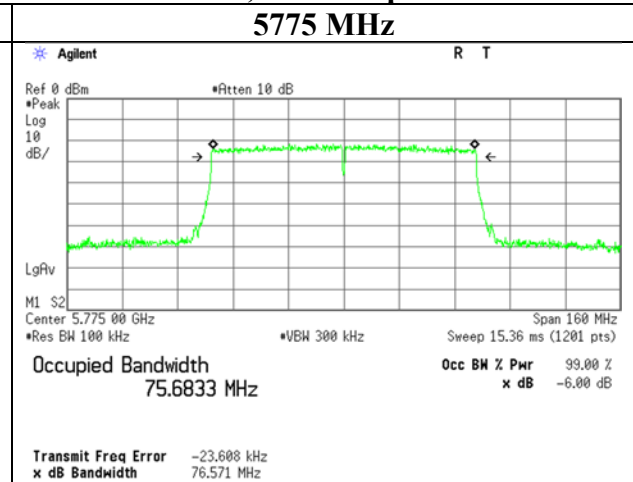
Facsimile : +81 596 24 8124

**6 dB Bandwidth**

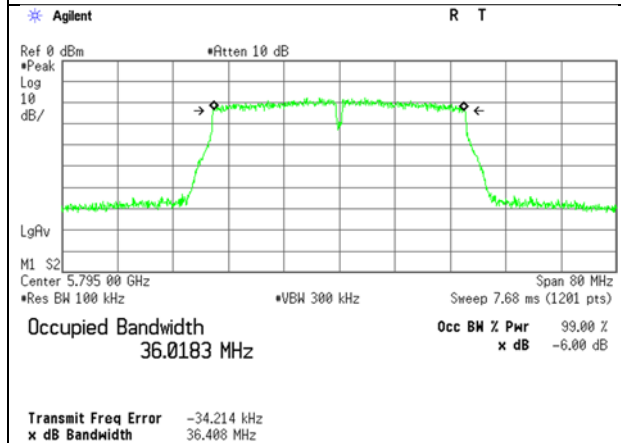
**11ac-40, Antenna port WA**



**11ac-80, Antenna port WA**



**5795 MHz**



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## Maximum Conducted Output Power

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 26, 2018  
Temperature / Humidity : 22deg. C / 34 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11a 54Mbps

### Antenna port WA+WC

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted power						e.i.r.p.					
			Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]
WA [mW]	WC [mW]	Sum [mW]	WA [mW]	WC [mW]	Sum [mW]									
5180	-	16.571	4.35	4.30	8.64	9.37	22.68	13.31	23.28	23.01	46.30	16.66	29.97	13.31
5220	-	16.517	4.42	3.87	8.29	9.18	22.68	13.50	23.66	20.75	44.41	16.47	29.97	13.50
5240	-	16.329	4.56	3.89	8.45	9.27	22.68	13.41	24.43	20.84	45.28	16.56	29.97	13.41
5260	19.346	16.574	6.73	5.94	12.67	11.03	22.57	11.54	36.06	31.84	67.90	18.32	29.97	11.65
5300	19.455	16.653	6.82	6.35	13.18	11.20	22.60	11.40	36.56	34.04	70.60	18.49	29.97	11.48
5320	19.515	16.619	7.03	6.47	13.50	11.30	22.61	11.31	37.67	34.67	72.34	18.59	29.97	11.38
5500	19.499	16.582	7.38	7.33	14.71	11.68	22.61	10.93	39.54	39.26	78.80	18.97	29.97	11.00
5580	19.228	16.687	7.21	7.33	14.54	11.63	22.54	10.91	38.64	39.26	77.90	18.92	29.97	11.05
5700	19.426	16.575	6.84	6.76	13.60	11.34	22.59	11.25	36.64	36.22	72.87	18.63	29.97	11.34
5745	-	-	7.19	6.84	14.03	11.47	28.71	17.24	38.55	36.64	75.19	18.76	36.00	17.24
5785	-	-	7.14	6.95	14.10	11.49	28.71	17.22	38.28	37.24	75.52	18.78	36.00	17.22
5825	-	-	6.76	6.46	13.22	11.21	28.71	17.50	36.22	34.59	70.82	18.50	36.00	17.50

Antenna port WA							Antenna port WC						
Tested Frequency [MHz]	Duty Factor [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-14.22	0.70	19.90	7.29	6.38	13.67	-14.30	0.70	19.93	7.29	6.33	13.62
5220	0.00	-14.15	0.70	19.90	7.29	6.45	13.74	-14.75	0.70	19.93	7.29	5.88	13.17
5240	0.00	-14.01	0.70	19.90	7.29	6.59	13.88	-14.73	0.70	19.93	7.29	5.90	13.19
5260	0.00	-12.32	0.70	19.90	7.29	8.28	15.57	-12.89	0.70	19.93	7.29	7.74	15.03
5300	0.00	-12.25	0.70	19.89	7.29	8.34	15.63	-12.60	0.70	19.93	7.29	8.03	15.32
5320	0.00	-12.12	0.70	19.89	7.29	8.47	15.76	-12.51	0.70	19.92	7.29	8.11	15.40
5500	0.00	-12.01	0.80	19.89	7.29	8.68	15.97	-12.06	0.80	19.91	7.29	8.65	15.94
5580	0.00	-12.13	0.80	19.91	7.29	8.58	15.87	-12.07	0.80	19.92	7.29	8.65	15.94
5700	0.00	-12.35	0.80	19.90	7.29	8.35	15.64	-12.40	0.80	19.90	7.29	8.30	15.59
5745	0.00	-12.12	0.80	19.89	7.29	8.57	15.86	-12.34	0.80	19.89	7.29	8.35	15.64
5785	0.00	-12.14	0.80	19.88	7.29	8.54	15.83	-12.26	0.80	19.88	7.29	8.42	15.71
5825	0.00	-12.38	0.80	19.88	7.29	8.30	15.59	-12.58	0.80	19.88	7.29	8.10	15.39

### Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor  
e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

## Maximum Conducted Output Power

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 26, 2018  
Temperature / Humidity : 22deg. C / 34 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11n-20

### Antenna port WA+WC

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted power						e.i.r.p.					
			Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]
WA [mW]	WC [mW]	Sum [mW]	WA [mW]	WC [mW]	Sum [mW]									
5180	-	17.729	4.39	4.38	8.76	9.43	22.68	13.25	23.50	23.44	46.94	16.72	29.97	13.25
5220	-	17.752	4.33	3.39	7.71	8.87	22.68	13.81	23.17	18.16	41.33	16.16	29.97	13.81
5240	-	17.683	4.44	3.55	7.98	9.02	22.68	13.66	23.77	19.01	42.78	16.31	29.97	13.66
5260	19.608	17.697	6.85	6.18	13.04	11.15	22.63	11.48	36.73	33.11	69.84	18.44	29.97	11.53
5300	19.953	17.649	7.06	6.10	13.16	11.19	22.68	11.49	37.84	32.66	70.50	18.48	29.97	11.49
5320	19.839	17.673	7.01	6.28	13.30	11.24	22.68	11.44	37.58	33.65	71.23	18.53	29.97	11.44
5500	19.910	17.693	7.28	7.38	14.66	11.66	22.68	11.02	38.99	39.54	78.53	18.95	29.97	11.02
5580	19.883	17.697	7.21	6.70	13.91	11.43	22.68	11.25	38.64	35.89	74.53	18.72	29.97	11.25
5700	19.595	17.725	6.78	6.81	13.58	11.33	22.63	11.30	36.31	36.48	72.78	18.62	29.97	11.35
5745	-	-	7.33	7.26	14.59	11.64	28.71	17.07	39.26	38.90	78.17	18.93	36.00	17.07
5785	-	-	7.18	6.41	13.59	11.33	28.71	17.38	38.46	34.36	72.81	18.62	36.00	17.38
5825	-	-	7.11	6.70	13.81	11.40	28.71	17.31	38.11	35.89	74.00	18.69	36.00	17.31

Antenna port WA							Antenna port WC						
Tested Frequency [MHz]	Duty Factor [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-14.18	0.70	19.90	7.29	6.42	13.71	-14.22	0.70	19.93	7.29	6.41	13.70
5220	0.00	-14.24	0.70	19.90	7.29	6.36	13.65	-15.33	0.70	19.93	7.29	5.30	12.59
5240	0.00	-14.13	0.70	19.90	7.29	6.47	13.76	-15.13	0.70	19.93	7.29	5.50	12.79
5260	0.00	-12.24	0.70	19.90	7.29	8.36	15.65	-12.72	0.70	19.93	7.29	7.91	15.20
5300	0.00	-12.10	0.70	19.89	7.29	8.49	15.78	-12.78	0.70	19.93	7.29	7.85	15.14
5320	0.00	-12.13	0.70	19.89	7.29	8.46	15.75	-12.64	0.70	19.92	7.29	7.98	15.27
5500	0.00	-12.07	0.80	19.89	7.29	8.62	15.91	-12.03	0.80	19.91	7.29	8.68	15.97
5580	0.00	-12.13	0.80	19.91	7.29	8.58	15.87	-12.46	0.80	19.92	7.29	8.26	15.55
5700	0.00	-12.39	0.80	19.90	7.29	8.31	15.60	-12.37	0.80	19.90	7.29	8.33	15.62
5745	0.00	-12.04	0.80	19.89	7.29	8.65	15.94	-12.08	0.80	19.89	7.29	8.61	15.90
5785	0.00	-12.12	0.80	19.88	7.29	8.56	15.85	-12.61	0.80	19.88	7.29	8.07	15.36
5825	0.00	-12.16	0.80	19.88	7.29	8.52	15.81	-12.42	0.80	19.88	7.29	8.26	15.55

### Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor  
e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

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## Maximum Conducted Output Power

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 26, 2018  
Temperature / Humidity : 22deg. C / 34 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11ac-20

### Antenna port WA+WC

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted power						e.i.r.p.					
			Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]
WA [mW]	WC [mW]	Sum [mW]	WA [mW]	WC [mW]	Sum [mW]									
5180	-	17.689	4.32	4.50	8.81	9.45	22.68	13.23	23.12	24.10	47.22	16.74	29.97	13.23
5220	-	17.684	4.54	3.78	8.32	9.20	22.68	13.48	24.32	20.23	44.55	16.49	29.97	13.48
5240	-	17.628	4.61	3.87	8.49	9.29	22.68	13.39	24.72	20.75	45.47	16.58	29.97	13.39
5260	19.774	17.701	7.03	6.22	13.25	11.22	22.67	11.45	37.67	33.34	71.01	18.51	29.97	11.46
5300	19.945	17.707	7.03	6.24	13.27	11.23	22.68	11.45	37.67	33.42	71.09	18.52	29.97	11.45
5320	19.684	17.668	7.78	6.53	14.31	11.56	22.65	11.09	41.69	34.99	76.68	18.85	29.97	11.12
5500	19.830	17.626	7.31	7.40	14.71	11.68	22.68	11.00	39.17	39.63	78.80	18.97	29.97	11.00
5580	19.702	17.690	7.33	7.23	14.56	11.63	22.65	11.02	39.26	38.73	77.99	18.92	29.97	11.05
5700	19.763	17.710	7.03	6.84	13.87	11.42	22.66	11.24	37.67	36.64	74.31	18.71	29.97	11.26
5745	-	-	7.62	7.26	14.88	11.73	28.71	16.98	40.83	38.90	79.74	19.02	36.00	16.98
5785	-	-	7.38	6.76	14.14	11.50	28.71	17.21	39.54	36.22	75.76	18.79	36.00	17.21
5825	-	-	7.14	6.73	13.87	11.42	28.71	17.29	38.28	36.06	74.34	18.71	36.00	17.29

Antenna port WA							Antenna port WC						
Tested Frequency [MHz]	Duty Factor [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	e.i.r.p. [dBm]
5180	0.00	-14.25	0.70	19.90	7.29	6.35	13.64	-14.10	0.70	19.93	7.29	6.53	13.82
5220	0.00	-14.03	0.70	19.90	7.29	6.57	13.86	-14.86	0.70	19.93	7.29	5.77	13.06
5240	0.00	-13.96	0.70	19.90	7.29	6.64	13.93	-14.75	0.70	19.93	7.29	5.88	13.17
5260	0.00	-12.13	0.70	19.90	7.29	8.47	15.76	-12.69	0.70	19.93	7.29	7.94	15.23
5300	0.00	-12.12	0.70	19.89	7.29	8.47	15.76	-12.68	0.70	19.93	7.29	7.95	15.24
5320	0.00	-11.68	0.70	19.89	7.29	8.91	16.20	-12.47	0.70	19.92	7.29	8.15	15.44
5500	0.00	-12.05	0.80	19.89	7.29	8.64	15.93	-12.02	0.80	19.91	7.29	8.69	15.98
5580	0.00	-12.06	0.80	19.91	7.29	8.65	15.94	-12.13	0.80	19.92	7.29	8.59	15.88
5700	0.00	-12.23	0.80	19.90	7.29	8.47	15.76	-12.35	0.80	19.90	7.29	8.35	15.64
5745	0.00	-11.87	0.80	19.89	7.29	8.82	16.11	-12.08	0.80	19.89	7.29	8.61	15.90
5785	0.00	-12.00	0.80	19.88	7.29	8.68	15.97	-12.38	0.80	19.88	7.29	8.30	15.59
5825	0.00	-12.14	0.80	19.88	7.29	8.54	15.83	-12.40	0.80	19.88	7.29	8.28	15.57

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

## Maximum Conducted Output Power

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 26, 2018  
Temperature / Humidity : 22deg. C / 34 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11n-40

**Antenna port WA+WC**

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted power						e.i.r.p.					
			Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]
			WA [mW]	WC [mW]	Sum [mW]				WA [mW]	WC [mW]	Sum [mW]			
5190	-	36.172	4.09	4.24	8.33	9.21	22.68	13.47	21.93	22.70	44.63	16.50	29.97	13.47
5230	-	36.191	4.47	3.70	8.17	9.12	22.68	13.56	23.93	19.82	43.75	16.41	29.97	13.56
5270	39.695	36.132	6.28	5.92	12.20	10.86	22.68	11.82	33.65	31.70	65.35	18.15	29.97	11.82
5310	40.121	36.259	6.87	6.31	13.18	11.20	22.68	11.48	36.81	33.81	70.62	18.49	29.97	11.48
5510	40.036	36.259	7.33	7.10	14.42	11.59	22.68	11.09	39.26	38.02	77.28	18.88	29.97	11.09
5550	40.150	36.242	7.19	7.31	14.51	11.62	22.68	11.06	38.55	39.17	77.72	18.91	29.97	11.06
5670	40.228	36.238	6.84	6.07	12.91	11.11	22.68	11.57	36.64	32.51	69.15	18.40	29.97	11.57
5755	-	-	6.79	6.95	13.74	11.38	28.71	17.33	36.39	37.24	73.63	18.67	36.00	17.33
5795	-	-	7.00	6.35	13.35	11.26	28.71	17.45	37.50	34.04	71.54	18.55	36.00	17.45

Tested Frequency [MHz]	Antenna port WA						Antenna port WC						
	Duty Factor [dB]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0.00	-14.48	0.70	19.90	7.29	6.12	13.41	-14.36	0.70	19.93	7.29	6.27	13.56
5230	0.00	-14.10	0.70	19.90	7.29	6.50	13.79	-14.95	0.70	19.93	7.29	5.68	12.97
5270	0.00	-12.61	0.70	19.89	7.29	7.98	15.27	-12.91	0.70	19.93	7.29	7.72	15.01
5310	0.00	-12.22	0.70	19.89	7.29	8.37	15.66	-12.62	0.70	19.92	7.29	8.00	15.29
5510	0.00	-12.04	0.80	19.89	7.29	8.65	15.94	-12.20	0.80	19.91	7.29	8.51	15.80
5550	0.00	-12.14	0.80	19.91	7.29	8.57	15.86	-12.08	0.80	19.92	7.29	8.64	15.93
5670	0.00	-12.36	0.80	19.91	7.29	8.35	15.64	-12.88	0.80	19.91	7.29	7.83	15.12
5755	0.00	-12.37	0.80	19.89	7.29	8.32	15.61	-12.27	0.80	19.89	7.29	8.42	15.71
5795	0.00	-12.23	0.80	19.88	7.29	8.45	15.74	-12.65	0.80	19.88	7.29	8.03	15.32

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)



## Maximum Conducted Output Power

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 26, 2018  
Temperature / Humidity : 22deg. C / 34 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11ac-40

### Antenna port WA+WC

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted power						e.i.r.p.					
			Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]	Antenna port			Result [dBm]	Limit [dBm]	Margin [dB]
			WA [mW]	WC [mW]	Sum [mW]				WA [mW]	WC [mW]	Sum [mW]			
5190	-	36.288	4.33	4.59	8.92	9.50	22.68	13.18	23.17	24.60	47.78	16.79	29.97	13.18
5230	-	36.310	4.50	3.72	8.21	9.15	22.68	13.53	24.10	19.91	44.01	16.44	29.97	13.53
5270	39.688	36.192	6.35	5.98	12.34	10.91	22.68	11.77	34.04	32.06	66.10	18.20	29.97	11.77
5310	40.346	36.144	6.84	6.41	13.25	11.22	22.68	11.46	36.64	34.36	71.00	18.51	29.97	11.46
5510	40.275	36.237	7.69	7.66	15.35	11.86	22.68	10.82	41.21	41.02	82.23	19.15	29.97	10.82
5550	40.223	36.224	7.64	7.73	15.37	11.87	22.68	10.81	40.93	41.40	82.33	19.16	29.97	10.81
5670	40.117	36.268	7.33	6.25	13.58	11.33	22.68	11.35	39.26	33.50	72.76	18.62	29.97	11.35
5755	-	-	7.03	6.70	13.73	11.38	28.71	17.33	37.67	35.89	73.56	18.67	36.00	17.33
5795	-	-	6.97	6.55	13.51	11.31	28.71	17.40	37.33	35.08	72.40	18.60	36.00	17.40

Tested Frequency [MHz]	Duty Factor [dB]	Antenna port WA					Antenna port WC						
		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result	
						Cond. Power [dBm]	e.i.r.p. [dBm]					Cond. Power [dBm]	e.i.r.p. [dBm]
5190	0.00	-14.24	0.70	19.90	7.29	6.36	13.65	-14.01	0.70	19.93	7.29	6.62	13.91
5230	0.00	-14.07	0.70	19.90	7.29	6.53	13.82	-14.93	0.70	19.93	7.29	5.70	12.99
5270	0.00	-12.56	0.70	19.89	7.29	8.03	15.32	-12.86	0.70	19.93	7.29	7.77	15.06
5310	0.00	-12.24	0.70	19.89	7.29	8.35	15.64	-12.55	0.70	19.92	7.29	8.07	15.36
5510	0.00	-11.83	0.80	19.89	7.29	8.86	16.15	-11.87	0.80	19.91	7.29	8.84	16.13
5550	0.00	-11.88	0.80	19.91	7.29	8.83	16.12	-11.84	0.80	19.92	7.29	8.88	16.17
5670	0.00	-12.06	0.80	19.91	7.29	8.65	15.94	-12.75	0.80	19.91	7.29	7.96	15.25
5755	0.00	-12.22	0.80	19.89	7.29	8.47	15.76	-12.43	0.80	19.89	7.29	8.26	15.55
5795	0.00	-12.25	0.80	19.88	7.29	8.43	15.72	-12.52	0.80	19.88	7.29	8.16	15.45

### Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor  
e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

## Maximum Conducted Output Power

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 26, 2018  
Temperature / Humidity : 22deg. C / 34 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11ac-80

### Antenna port WA+WC

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	26 dB EBW (B for FCC) [MHz]	99% OBW (B for IC) [MHz]	Conducted power						e.i.r.p.					
			WA [mW]	WC [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]	WA [mW]	WC [mW]	Sum [mW]	Result [dBm]	Limit [dBm]	Margin [dB]
5210	-	75.838	4.05	3.54	7.59	8.80	22.68	13.88	21.68	18.97	40.64	16.09	29.97	13.88
5290	80.515	75.805	6.70	5.87	12.57	10.99	22.68	11.69	35.89	31.48	67.37	18.28	29.97	11.69
5530	80.062	75.917	7.21	7.31	14.52	11.62	22.68	11.06	38.64	39.17	77.81	18.91	29.97	11.06
5610	80.213	75.926	7.38	6.37	13.75	11.38	22.68	11.30	39.54	34.12	73.66	18.67	29.97	11.30
5775	-	-	7.00	6.75	13.74	11.38	28.71	17.33	37.50	36.14	73.64	18.67	36.00	17.33

Tested Frequency [MHz]	Duty Factor [dB]	Antenna port WA						Antenna port WC					
		Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	Result e.i.r.p. [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	Result Cond. Power [dBm]	Result e.i.r.p. [dBm]
5210	0.00	-14.53	0.70	19.90	7.29	6.07	13.36	-15.14	0.70	19.93	7.29	5.49	12.78
5290	0.00	-12.33	0.70	19.89	7.29	8.26	15.55	-12.94	0.70	19.93	7.29	7.69	14.98
5530	0.00	-12.12	0.80	19.90	7.29	8.58	15.87	-12.07	0.80	19.91	7.29	8.64	15.93
5610	0.00	-12.04	0.80	19.92	7.29	8.68	15.97	-12.68	0.80	19.92	7.29	8.04	15.33
5775	0.00	-12.24	0.80	19.89	7.29	8.45	15.74	-12.40	0.80	19.89	7.29	8.29	15.58

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

The conducted power limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

**UL Japan, Inc.**

**Ise EMC Lab.**

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**Maximum Conducted Output Power**  
(Rate Check)

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 23, 2018  
Temperature / Humidity : 23 deg. C / 34 % RH  
Engineer : Takumi Shimada  
Mode : Tx

**5500 MHz**

mode	Rate [Mbps]	Antenna port WA Reading Average		Antenna port WC Reading Average		Total Reading Power		Remark [dB]
		[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	
11a	6	-12.23	0.060	-12.44	0.057	-9.32	0.117	
	9	-12.11	0.062	-12.20	0.060	-9.14	0.122	
	12	-12.13	0.061	-12.22	0.060	-9.16	0.121	
	18	-12.18	0.061	-12.41	0.057	-9.28	0.118	
	24	-12.02	0.063	-12.24	0.060	-9.12	0.123	
	36	-12.05	0.062	-12.21	0.060	-9.12	0.122	
	48	-12.16	0.061	-12.21	0.060	-9.17	0.121	
	54	-11.96	0.064	-12.14	0.061	-9.04	0.125	*

\*: Worst Rate

\*1)The test was conducted by the use of Gate function.

All comparison were carried out on same frequency and measurement factors.

**Maximum Conducted Output Power**  
(Rate Check)

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 23, 2018      January 24, 2018  
Temperature / Humidity : 23 deg. C / 34 % RH      23 deg. C / 34 % RH  
Engineer : Takumi Shimada      Yuta Moriya  
Mode : Tx

**5500 MHz**

mode	MCS Number	Antenna port WA Reading Average		Antenna port WC Reading Average		Total Reading Power		Remark
		[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	
		11n-20	0	-11.41	0.072	-11.43	0.072	
1	-11.30		0.074	-11.50	0.071	-8.39	0.145	
2	-11.31		0.074	-11.52	0.070	-8.40	0.144	
3	-11.49		0.071	-11.34	0.073	-8.40	0.144	
4	-11.34		0.073	-11.46	0.071	-8.39	0.145	
5	-11.31		0.074	-11.47	0.071	-8.38	0.145	
6	-11.35		0.073	-11.36	0.073	-8.34	0.146	
7	-11.39		0.073	-11.31	0.074	-8.34	0.147	*
8	-11.52		0.070	-11.40	0.072	-8.45	0.143	
9	-11.52		0.070	-11.35	0.073	-8.42	0.144	
10	-11.33		0.074	-11.42	0.072	-8.36	0.146	
11	-11.42		0.072	-11.47	0.071	-8.43	0.143	
12	-11.40		0.072	-11.48	0.071	-8.43	0.144	
13	-11.48		0.071	-11.38	0.073	-8.42	0.144	
14	-11.46		0.071	-11.45	0.072	-8.44	0.143	
15	-11.44	0.072	-11.48	0.071	-8.45	0.143		

\*Worst MCS

\*1)The test was conducted by the use of Gate function.  
All comparison were carried out on same frequency and measurement factors.

### Maximum Conducted Output Power (Rate Check)

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 23, 2018      January 24, 2018  
Temperature / Humidity : 23 deg. C / 34 % RH      23 deg. C / 34 % RH  
Engineer : Takumi Shimada      Yuta Moriya  
Mode : Tx

**5500 MHz**

mode	MCS Number	Antenna port WA		Antenna port WC		Total		Remark
		Reading Average		Reading Average		Reading Power		
		[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	
11ac-20 1TX	0	-11.54	0.070	-11.43	0.072	-8.47	0.142	
	1	-11.50	0.071	-11.61	0.069	-8.54	0.140	
	2	-11.53	0.070	-11.40	0.072	-8.45	0.143	
	3	-11.51	0.071	-11.34	0.073	-8.41	0.144	
	4	-11.38	0.073	-11.32	0.074	-8.34	0.147	
	5	-11.38	0.073	-11.45	0.072	-8.40	0.144	
	6	-11.40	0.072	-11.30	0.074	-8.34	0.147	
	7	-11.44	0.072	-11.23	0.075	-8.32	0.147	*
11ac-20 2TX	0	-11.47	0.071	-11.63	0.069	-8.54	0.140	
	1	-11.40	0.072	-11.52	0.070	-8.45	0.143	
	2	-11.43	0.072	-11.42	0.072	-8.41	0.144	
	3	-11.38	0.073	-11.49	0.071	-8.42	0.144	
	4	-11.44	0.072	-11.33	0.074	-8.37	0.145	
	5	-11.51	0.071	-11.38	0.073	-8.43	0.143	
	6	-11.48	0.071	-11.41	0.072	-8.43	0.143	
	7	-11.45	0.072	-11.35	0.073	-8.39	0.145	
	8	-11.57	0.070	-11.45	0.072	-8.50	0.141	

\*Worst MCS

\*1)The test was conducted by the use of Gate function.

All comparison were carried out on same frequency and measurement factors.

**Maximum Conducted Output Power**  
(Rate Check)

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 24, 2018  
Temperature / Humidity : 23 deg. C / 25 % RH  
Engineer : Yuta Moriya  
Mode : Tx

**5530 MHz**

mode	MCS Number	Antenna port WA Reading Average		Antenna port WC Reading Average		Total Reading Power		Remark
		[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	
11n-40	0	-11.62	0.069	-11.48	0.071	-8.54	0.140	
	1	-11.67	0.068	-11.31	0.074	-8.48	0.142	*
	2	-11.60	0.069	-11.45	0.072	-8.51	0.141	
	3	-11.82	0.066	-11.42	0.072	-8.61	0.138	
	4	-11.79	0.066	-11.60	0.069	-8.68	0.135	
	5	-11.85	0.065	-11.46	0.071	-8.64	0.137	
	6	-11.80	0.066	-11.61	0.069	-8.69	0.135	
	7	-11.67	0.068	-11.54	0.070	-8.59	0.138	
	8	-11.72	0.067	-11.33	0.074	-8.51	0.141	
	9	-11.65	0.068	-11.55	0.070	-8.59	0.138	
	10	-11.84	0.065	-11.40	0.072	-8.60	0.138	
	11	-11.70	0.068	-11.41	0.072	-8.54	0.140	
	12	-11.71	0.067	-11.56	0.070	-8.62	0.137	
	13	-11.76	0.067	-11.51	0.071	-8.62	0.137	
	14	-11.92	0.064	-11.42	0.072	-8.65	0.136	
15	-11.90	0.065	-11.58	0.070	-8.73	0.134		

\*Worst MCS

\*1)The test was conducted by the use of Gate function.

All comparison were carried out on same frequency and measurement factors.

**Maximum Conducted Output Power**  
(Rate Check)

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 24, 2018  
Temperature / Humidity : 23 deg. C / 25 % RH  
Engineer : Yuta Moriya  
Mode : Tx

**5530 MHz**

mode	Number	Antenna port WA Reading Average		Antenna port WC Reading Average		Total Reading Power		Remark
		[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	
11ac-40 1TX	0	-11.40	0.072	-11.45	0.072	-8.41	0.144	
	1	-11.33	0.074	-11.36	0.073	-8.33	0.147	
	2	-11.36	0.073	-11.39	0.073	-8.36	0.146	
	3	-11.37	0.073	-11.33	0.074	-8.34	0.147	
	4	-11.32	0.074	-11.39	0.073	-8.34	0.146	
	5	-11.43	0.072	-11.50	0.071	-8.45	0.143	
	6	-11.31	0.074	-11.40	0.072	-8.34	0.146	
	7	-11.31	0.074	-11.35	0.073	-8.32	0.147	*
	8	-11.44	0.072	-11.51	0.071	-8.46	0.142	
	9	-11.42	0.072	-11.60	0.069	-8.50	0.141	
11ac-40 2TX	0	-11.31	0.074	-11.54	0.070	-8.41	0.144	
	1	-11.35	0.073	-11.55	0.070	-8.44	0.143	
	2	-11.42	0.072	-11.60	0.069	-8.50	0.141	
	3	-11.35	0.073	-11.43	0.072	-8.38	0.145	
	4	-11.41	0.072	-11.59	0.069	-8.49	0.142	
	5	-11.31	0.074	-11.45	0.072	-8.37	0.146	
	6	-11.38	0.073	-11.46	0.071	-8.41	0.144	
	7	-11.34	0.073	-11.46	0.071	-8.39	0.145	
	8	-11.39	0.073	-11.53	0.070	-8.45	0.143	
	9	-11.46	0.071	-11.52	0.070	-8.48	0.142	

\*Worst MCS

\*1)The test was conducted by the use of Gate function.

All comparison were carried out on same frequency and measurement factors.

**Maximum Conducted Output Power**  
(Rate Check)

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 24, 2018  
Temperature / Humidity : 23 deg. C / 25 % RH  
Engineer : Yuta Moriya  
Mode : Tx

**5530 MHz**

mode	MCS Number	Antenna port WA Reading Average		Antenna port WC Reading Average		Total Reading Power		Remark
		[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]	
11ac-80 1TX	0	-11.50	0.071	-11.90	0.065	-8.69	0.135	
	1	-11.30	0.074	-11.80	0.066	-8.53	0.140	
	2	-11.70	0.068	-11.80	0.066	-8.74	0.134	
	3	-11.30	0.074	-11.80	0.066	-8.53	0.140	
	4	-11.70	0.068	-11.70	0.068	-8.69	0.135	
	5	-11.40	0.072	-11.50	0.071	-8.44	0.143	
	6	-11.50	0.071	-11.90	0.065	-8.69	0.135	
	7	-11.30	0.074	-11.40	0.072	-8.34	0.147	*
	8	-11.30	0.074	-11.70	0.068	-8.49	0.142	
11ac-80 2TX	0	-11.70	0.068	-11.80	0.066	-8.74	0.134	
	1	-11.40	0.072	-11.80	0.066	-8.59	0.139	
	2	-11.50	0.071	-11.80	0.066	-8.64	0.137	
	3	-11.40	0.072	-11.80	0.066	-8.59	0.139	
	4	-11.60	0.069	-11.50	0.071	-8.54	0.140	
	5	-11.50	0.071	-11.80	0.066	-8.64	0.137	
	6	-11.46	0.071	-11.50	0.071	-8.47	0.142	
	7	-11.30	0.074	-11.60	0.069	-8.44	0.143	
	8	-11.60	0.069	-11.80	0.066	-8.69	0.135	
	9	-11.30	0.074	-11.50	0.071	-8.39	0.145	

\*Worst MCS

\*1)The test was conducted by the use of Gate function.

All comparison were carried out on same frequency and measurement factors.



**Average Output Power**  
**(Reference data for RF Exposure)**

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 29, 2018  
Temperature / Humidity : 23deg. C / 32 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11a 6 Mbps

Tested Frequency [MHz]	Antenna port WA				Antenna port WC				Antenna port WA + WC			
	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Result (Burst average)			
									Antenna		Sum	
								WA [mW]	WC [mW]	WA+WC [mW]	WA+WC [dBm]	
5180	-14.75	0.70	19.90	5.85	-14.70	0.70	19.93	5.93	3.85	3.92	7.76	8.90
5220	-14.29	0.70	19.90	6.31	-15.19	0.70	19.93	5.44	4.28	3.50	7.78	8.91
5240	-14.05	0.70	19.90	6.55	-15.24	0.70	19.93	5.39	4.52	3.46	7.98	9.02
5260	-12.40	0.70	19.90	8.20	-13.13	0.70	19.93	7.50	6.61	5.62	12.23	10.87
5300	-12.30	0.70	19.89	8.29	-12.80	0.70	19.93	7.83	6.75	6.07	12.81	11.08
5320	-12.25	0.70	19.89	8.34	-12.56	0.70	19.92	8.06	6.82	6.40	13.22	11.21
5500	-12.07	0.80	19.89	8.62	-12.10	0.80	19.91	8.61	7.28	7.26	14.54	11.63
5580	-12.15	0.80	19.91	8.56	-12.21	0.80	19.92	8.51	7.18	7.10	14.27	11.55
5700	-12.38	0.80	19.90	8.32	-12.47	0.80	19.90	8.23	6.79	6.65	13.44	11.29
5745	-12.26	0.80	19.89	8.43	-12.40	0.80	19.89	8.29	6.97	6.75	13.71	11.37
5785	-12.21	0.80	19.88	8.47	-12.52	0.80	19.88	8.16	7.03	6.55	13.58	11.33
5825	-12.40	0.80	19.88	8.28	-12.78	0.80	19.88	7.90	6.73	6.17	12.90	11.10

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

\*The equipment and cables were not used for factor 0 dB of the data sheets.

**The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.**

**Average Output Power**  
**(Reference data for RF Exposure)**

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 29, 2018  
Temperature / Humidity : 23deg. C / 32 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11n-20 MCS 0

Tested Frequency [MHz]	Antenna port WA				Antenna port WC				Antenna port WA + WC			
	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Result (Burst average)			
									Antenna		Sum	
								WA [mW]	WC [mW]	WA+WC [mW]	Sum [dBm]	
5180	-14.44	0.70	19.90	6.16	-14.26	0.70	19.93	6.37	4.13	4.34	8.47	9.28
5220	-14.28	0.70	19.90	6.32	-15.36	0.70	19.93	5.27	4.29	3.37	7.65	8.84
5240	-14.16	0.70	19.90	6.44	-15.16	0.70	19.93	5.47	4.41	3.52	7.93	8.99
5260	-12.28	0.70	19.90	8.32	-12.98	0.70	19.93	7.65	6.79	5.82	12.61	11.01
5300	-12.12	0.70	19.89	8.47	-12.86	0.70	19.93	7.77	7.03	5.98	13.01	11.14
5320	-12.16	0.70	19.89	8.43	-12.75	0.70	19.92	7.87	6.97	6.12	13.09	11.17
5500	-12.16	0.80	19.89	8.53	-12.15	0.80	19.91	8.56	7.13	7.18	14.31	11.56
5580	-12.41	0.80	19.91	8.30	-12.25	0.80	19.92	8.47	6.76	7.03	13.79	11.40
5700	-12.42	0.80	19.90	8.28	-12.43	0.80	19.90	8.27	6.73	6.71	13.44	11.29
5745	-12.20	0.80	19.89	8.49	-12.59	0.80	19.89	8.10	7.06	6.46	13.52	11.31
5785	-12.15	0.80	19.88	8.53	-12.65	0.80	19.88	8.03	7.13	6.35	13.48	11.30
5825	-12.27	0.80	19.88	8.41	-12.72	0.80	19.88	7.96	6.93	6.25	13.19	11.20

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

\*The equipment and cables were not used for factor 0 dB of the data sheets.

**The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.**

**Average Output Power**  
**(Reference data for RF Exposure)**

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 29, 2018  
Temperature / Humidity : 23deg. C / 32 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11ac-20 MCS 0

Tested Frequency [MHz]	Antenna port WA				Antenna port WC				Antenna port WA + WC			
	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Result (Burst average)			
									Antenna		Sum	
								WA [mW]	WC [mW]	WA+WC [mW]	WA+WC [dBm]	
5180	-14.37	0.70	19.90	6.23	-14.14	0.70	19.93	6.49	4.20	4.46	8.65	9.37
5220	-14.19	0.70	19.90	6.41	-15.24	0.70	19.93	5.39	4.38	3.46	7.83	8.94
5240	-14.03	0.70	19.90	6.57	-14.98	0.70	19.93	5.65	4.54	3.67	8.21	9.14
5260	-12.20	0.70	19.90	8.40	-12.90	0.70	19.93	7.73	6.92	5.93	12.85	11.09
5300	-12.14	0.70	19.89	8.45	-12.69	0.70	19.93	7.94	7.00	6.22	13.22	11.21
5320	-12.21	0.70	19.89	8.38	-12.71	0.70	19.92	7.91	6.89	6.18	13.07	11.16
5500	-12.14	0.80	19.89	8.55	-12.09	0.80	19.91	8.62	7.16	7.28	14.44	11.60
5580	-12.31	0.80	19.91	8.40	-12.15	0.80	19.92	8.57	6.92	7.19	14.11	11.50
5700	-12.24	0.80	19.90	8.46	-12.36	0.80	19.90	8.34	7.01	6.82	13.84	11.41
5745	-11.99	0.80	19.89	8.70	-12.53	0.80	19.89	8.16	7.41	6.55	13.96	11.45
5785	-12.03	0.80	19.88	8.65	-12.37	0.80	19.88	8.31	7.33	6.78	14.10	11.49
5825	-12.14	0.80	19.88	8.54	-12.45	0.80	19.88	8.23	7.14	6.65	13.80	11.40

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

\*The equipment and cables were not used for factor 0 dB of the data sheets.

**The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.**

**Average Output Power**  
**(Reference data for RF Exposure)**

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 29, 2018  
Temperature / Humidity : 23deg. C / 32 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11n-40 MCS 0

Tested Frequency [MHz]	Antenna port WA				Antenna port WC				Antenna port WA + WC			
	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Result (Burst average)			
									Antenna		Sum	
								WA [mW]	WC [mW]	WA+WC [mW]	[dBm]	
5190	-14.49	0.70	19.90	6.11	-14.36	0.70	19.93	6.27	4.08	4.24	8.32	9.20
5230	-14.10	0.70	19.90	6.50	-15.03	0.70	19.93	5.60	4.47	3.63	8.10	9.08
5270	-12.54	0.70	19.89	8.05	-13.01	0.70	19.93	7.62	6.38	5.78	12.16	10.85
5310	-12.21	0.70	19.89	8.38	-12.66	0.70	19.92	7.96	6.89	6.25	13.14	11.19
5510	-12.41	0.80	19.89	8.28	-12.14	0.80	19.91	8.57	6.73	7.19	13.92	11.44
5550	-12.32	0.80	19.91	8.39	-12.10	0.80	19.92	8.62	6.90	7.28	14.18	11.52
5670	-12.34	0.80	19.91	8.37	-12.94	0.80	19.91	7.77	6.87	5.98	12.85	11.09
5755	-12.31	0.80	19.89	8.38	-12.38	0.80	19.89	8.31	6.89	6.78	13.66	11.36
5795	-12.22	0.80	19.88	8.46	-12.68	0.80	19.88	8.00	7.01	6.31	13.32	11.25

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

\*The equipment and cables were not used for factor 0 dB of the data sheets.

**The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.**

**Average Output Power**  
**(Reference data for RF Exposure)**

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 29, 2018  
Temperature / Humidity : 23deg. C / 32 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11ac-40 MCS 0

Tested Frequency [MHz]	Antenna port WA				Antenna port WC				Antenna port WA + WC			
	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Result (Burst average)			
									Antenna		Sum	
								WA [mW]	WC [mW]	WA+WC [mW]	[dBm]	
5190	-14.30	0.70	19.90	6.30	-14.03	0.70	19.93	6.60	4.27	4.57	8.84	9.46
5230	-14.07	0.70	19.90	6.53	-15.09	0.70	19.93	5.54	4.50	3.58	8.08	9.07
5270	-12.43	0.70	19.89	8.16	-13.09	0.70	19.93	7.54	6.55	5.68	12.22	10.87
5310	-12.26	0.70	19.89	8.33	-12.60	0.70	19.92	8.02	6.81	6.34	13.15	11.19
5510	-11.84	0.80	19.89	8.85	-11.90	0.80	19.91	8.81	7.67	7.60	15.28	11.84
5550	-11.90	0.80	19.91	8.81	-11.97	0.80	19.92	8.75	7.60	7.50	15.10	11.79
5670	-12.18	0.80	19.91	8.53	-12.65	0.80	19.91	8.06	7.13	6.40	13.53	11.31
5755	-12.26	0.80	19.89	8.43	-12.45	0.80	19.89	8.24	6.97	6.67	13.63	11.35
5795	-12.25	0.80	19.88	8.43	-12.54	0.80	19.88	8.14	6.97	6.52	13.48	11.30

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

\*The equipment and cables were not used for factor 0 dB of the data sheets.

**The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.**

**Average Output Power**  
**(Reference data for RF Exposure)**

Test place : Ise EMC Lab. No.11 Measurement Room  
Report No. : 12079942H  
Date : January 29, 2018  
Temperature / Humidity : 23deg. C / 32 % RH  
Engineer : Takumi Shimada  
Mode : Tx 11ac-80 MCS 0

Tested Frequency [MHz]	Antenna port WA				Antenna port WC				Antenna port WA + WC			
	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Power Meter Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result (Burst average) [dBm]	Result (Burst average)			
									Antenna		Sum	
								WA [mW]	WC [mW]	WA+WC [mW]	WA+WC [dBm]	
5210	-14.51	0.70	19.90	6.09	-15.20	0.70	19.93	5.43	4.06	3.49	7.56	8.78
5290	-12.31	0.70	19.89	8.28	-12.98	0.70	19.93	7.65	6.73	5.82	12.55	10.99
5530	-12.18	0.80	19.90	8.52	-12.11	0.80	19.91	8.60	7.11	7.24	14.36	11.57
5610	-12.11	0.80	19.92	8.61	-12.68	0.80	19.92	8.04	7.26	6.37	13.63	11.34
5775	-12.29	0.80	19.89	8.40	-12.37	0.80	19.89	8.32	6.92	6.79	13.71	11.37

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

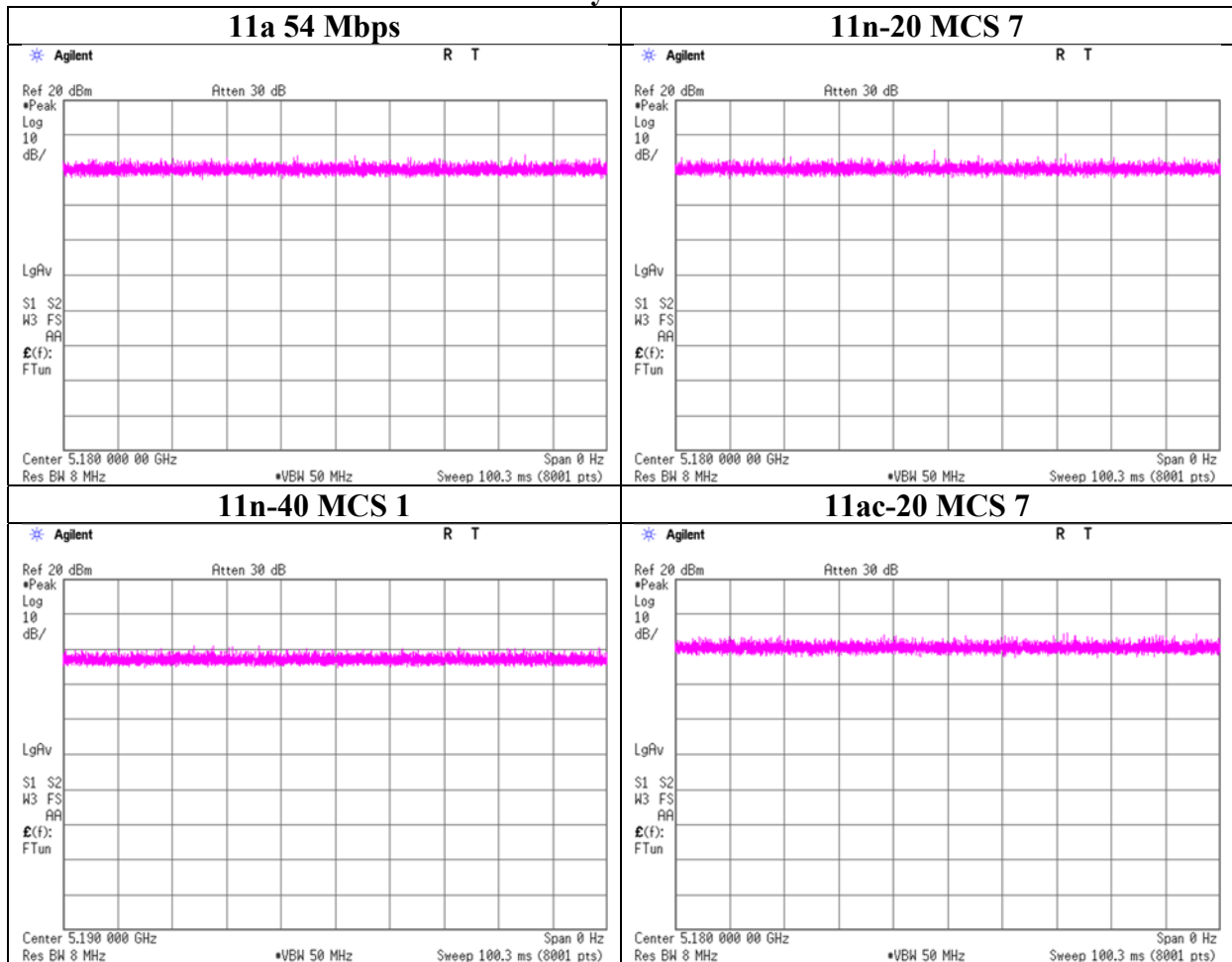
\*The equipment and cables were not used for factor 0 dB of the data sheets.

**The average output power was measured with the lowest order modulation and lowest data rate configuration in each IEEE 802.11 mode based on KDB 248227 D01.**

**Burst rate confirmation**

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	12079942H
Date	January 29, 2018
Temperature / Humidity	23deg. C / 32 % RH
Engineer	Takumi Shimada
Mode	Tx

**Duty 100 %**



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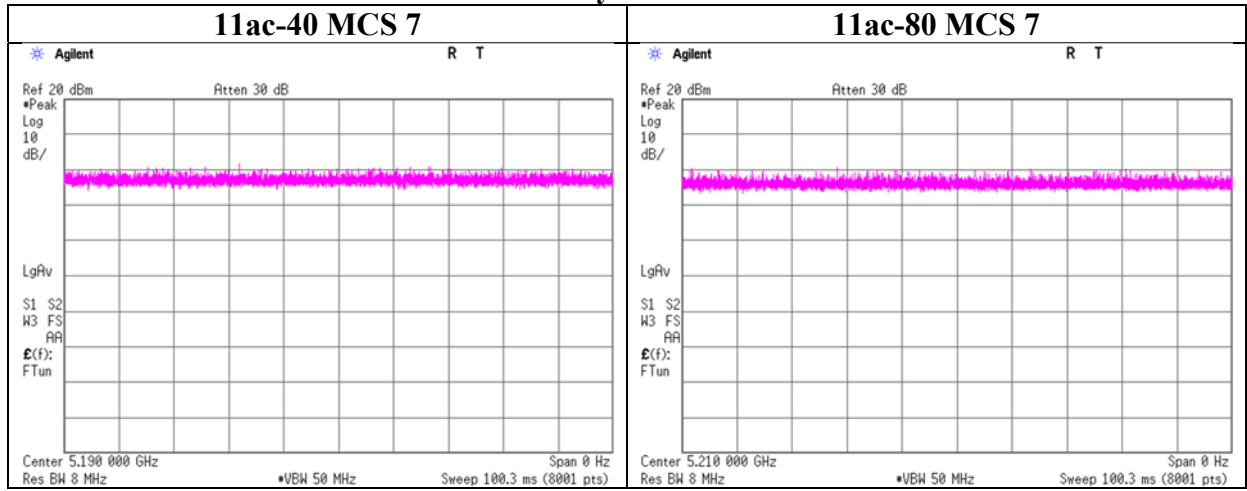
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

**Burst rate confirmation**

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	12079942H
Date	January 29, 2018
Temperature / Humidity	23deg. C / 32 % RH
Engineer	Takumi Shimada
Mode	Tx

**Duty 100 %**



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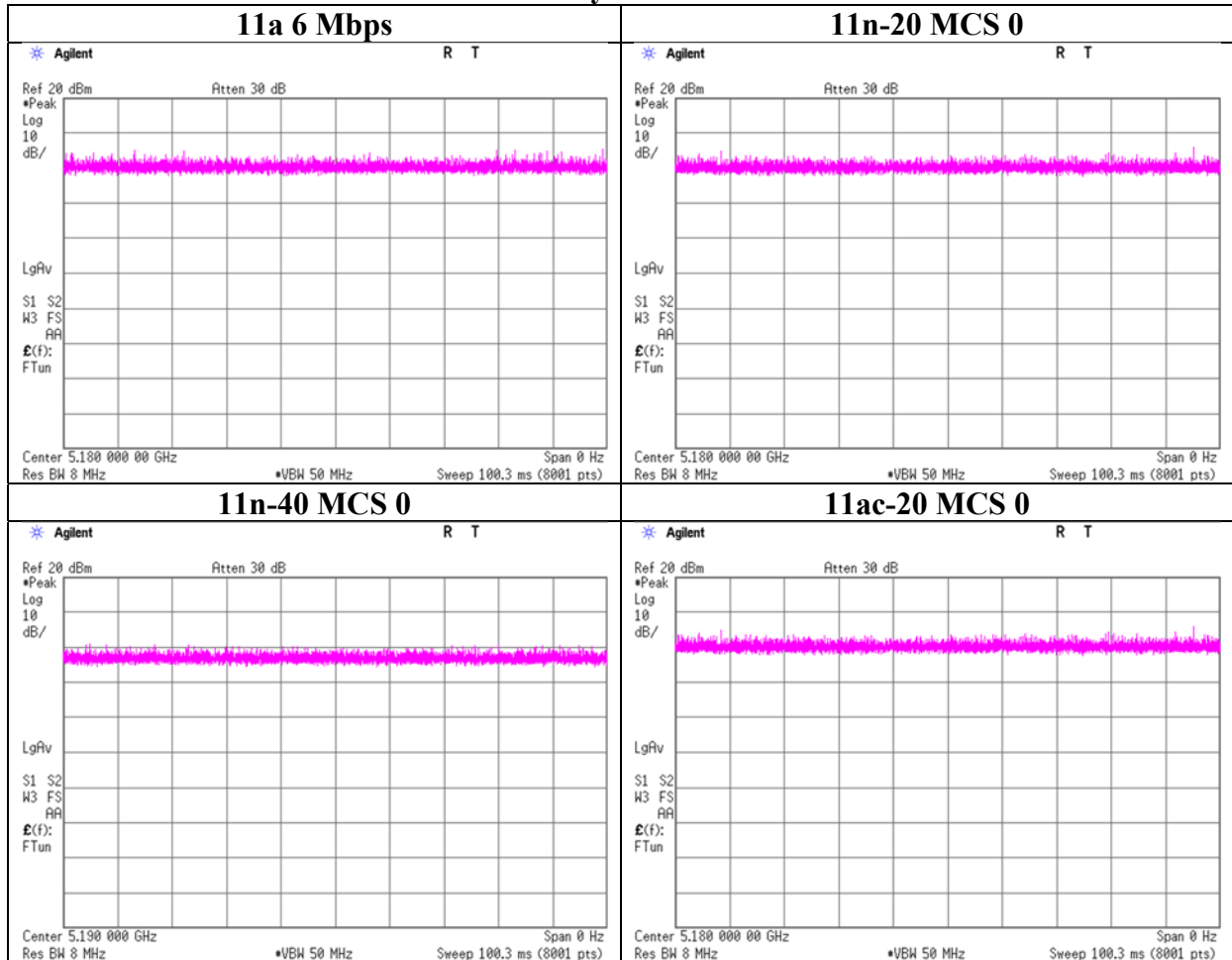
Facsimile : +81 596 24 8124



**Burst rate confirmation**

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	12079942H
Date	January 29, 2018
Temperature / Humidity	23deg. C / 32 % RH
Engineer	Takumi Shimada
Mode	Tx

**Duty 100 %**



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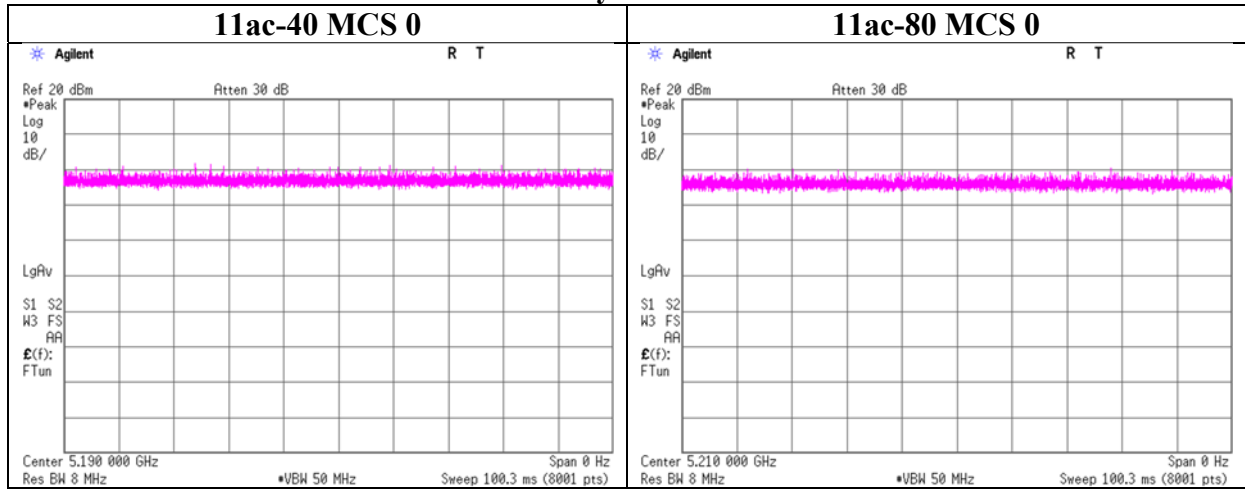
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

**Burst rate confirmation**

Test place Ise EMC Lab. No.11 Measurement Room  
Report No. 12079942H  
Date January 29, 2018  
Temperature / Humidity 23deg. C / 32 % RH  
Engineer Takumi Shimada  
Mode Tx

**Duty 100 %**



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## Maximum Power Spectral Density

Test place : Ise EMC Lab. No.3 Measurement Room  
Report No. : 12079942H  
Date : February 2, 2018 February 5, 2018  
Temperature / Humidity : 24deg. C / 31 % RH 23deg. C / 35 % RH  
Engineer : Takumi Shimada Takumi Shimada  
Mode : Tx 11a

**Antenna Port WA + WC** Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]	Antenna			Result [dBm/MHz]	Limit [dBm/MHz]	Margin [dB]
	1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]				1 [mW/MHz]	2 [mW/MHz]	Sum [mW/MHz]			
5180	0.36	0.47	0.84	-0.77	9.71	10.48	1.95	2.54	4.49	6.52	17.00	10.48
5220	0.43	0.35	0.79	-1.03	9.71	10.74	2.32	1.90	4.22	6.26	17.00	10.74
5240	0.43	0.39	0.82	-0.87	9.71	10.58	2.32	2.06	4.39	6.42	17.00	10.58
5260	0.78	0.59	1.37	1.36	9.71	8.35	4.18	3.14	7.32	8.65	17.00	8.35
5300	0.77	0.63	1.39	1.43	9.71	8.28	4.10	3.35	7.45	8.72	17.00	8.28
5320	0.81	0.67	1.48	1.72	9.71	7.99	4.34	3.62	7.95	9.01	17.00	7.99
5500	0.74	0.73	1.47	1.68	9.71	8.03	3.96	3.93	7.89	8.97	17.00	8.03
5580	0.75	0.74	1.50	1.75	9.71	7.96	4.04	3.98	8.02	9.04	17.00	7.96
5700	0.78	0.70	1.48	1.69	9.71	8.02	4.16	3.75	7.91	8.98	17.00	8.02
5745	0.41	0.38	0.78	-1.07	28.71	29.78	2.17	2.01	4.19	6.22	36.00	29.78
5785	0.41	0.35	0.76	-1.18	28.71	29.89	2.21	1.88	4.09	6.11	36.00	29.89
5825	0.41	0.33	0.74	-1.31	28.71	30.02	2.17	1.79	3.97	5.98	36.00	30.02

Tested Frequency [MHz]	Antenna Port WA							Antenna Port WC							
	Duty Factor [dB]	RBW Correction Factor [dB]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result		PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result		
							Cond. [dBm/MHz]	e.i.r.p. [dBm/MHz]					Cond. [dBm/MHz]	e.i.r.p. [dBm/MHz]	
5180	0.00	0.00	-16.26	2.02	9.84	7.29	-4.40	2.89	-15.10	2.02	9.84	7.29	-3.24	4.05	
5220	0.00	0.00	-15.50	2.03	9.84	7.29	-3.63	3.66	-16.37	2.03	9.84	7.29	-4.50	2.79	
5240	0.00	0.00	-15.50	2.03	9.84	7.29	-3.63	3.66	-16.01	2.03	9.84	7.29	-4.14	3.15	
5260	0.00	0.00	-12.96	2.04	9.84	7.29	-1.08	6.21	-14.20	2.04	9.84	7.29	-2.32	4.98	
5300	0.00	0.00	-13.06	2.05	9.85	7.29	-1.16	6.13	-13.94	2.05	9.85	7.29	-2.04	5.25	
5320	0.00	0.00	-12.82	2.05	9.85	7.29	-0.92	6.37	-13.61	2.05	9.85	7.29	-1.71	5.58	
5500	0.00	0.00	-13.36	2.18	9.86	7.29	-1.32	5.97	-13.38	2.18	9.86	7.29	-1.34	5.95	
5580	0.00	0.00	-13.27	2.19	9.86	7.29	-1.22	6.07	-13.34	2.19	9.86	7.29	-1.29	6.00	
5700	0.00	0.00	-13.16	2.20	9.86	7.29	-1.10	6.19	-13.61	2.20	9.86	7.29	-1.55	5.74	
5745	0.00	0.27	-16.25	2.20	9.86	7.29	-3.92	3.37	-16.58	2.20	9.86	7.29	-4.25	3.04	
5785	0.00	0.27	-16.18	2.20	9.86	7.29	-3.85	3.44	-16.88	2.20	9.86	7.29	-4.55	2.74	
5825	0.00	0.27	-16.26	2.21	9.86	7.29	-3.92	3.37	-17.10	2.21	9.86	7.29	-4.76	2.53	

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

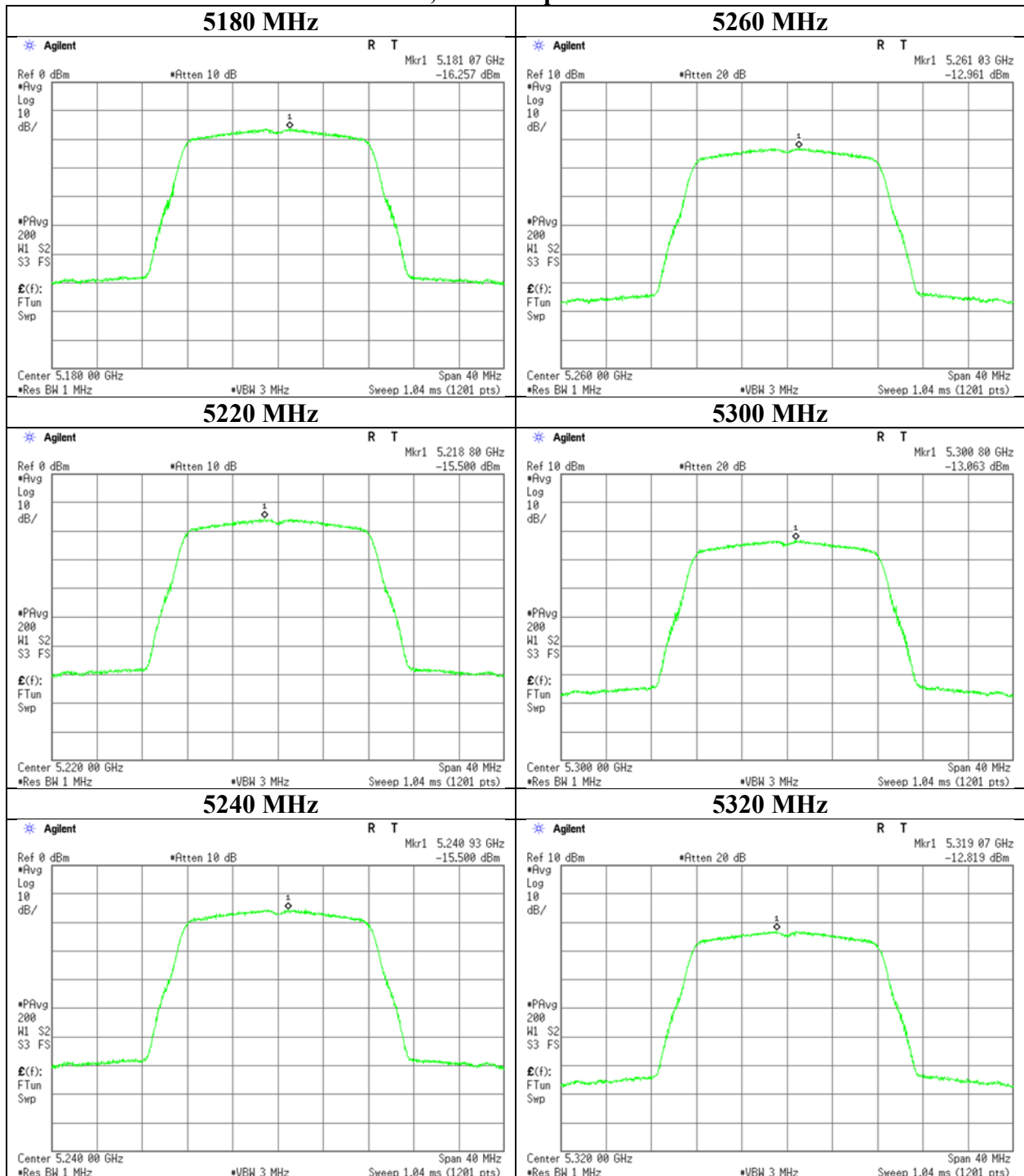
PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	12079942H	
Date	February 2, 2018	February 5, 2018
Temperature / Humidity	24deg. C / 31 % RH	23deg. C / 35 % RH
Engineer	Takumi Shimada	Takumi Shimada
Mode	Tx 11a	

### 11a, Antenna port WA



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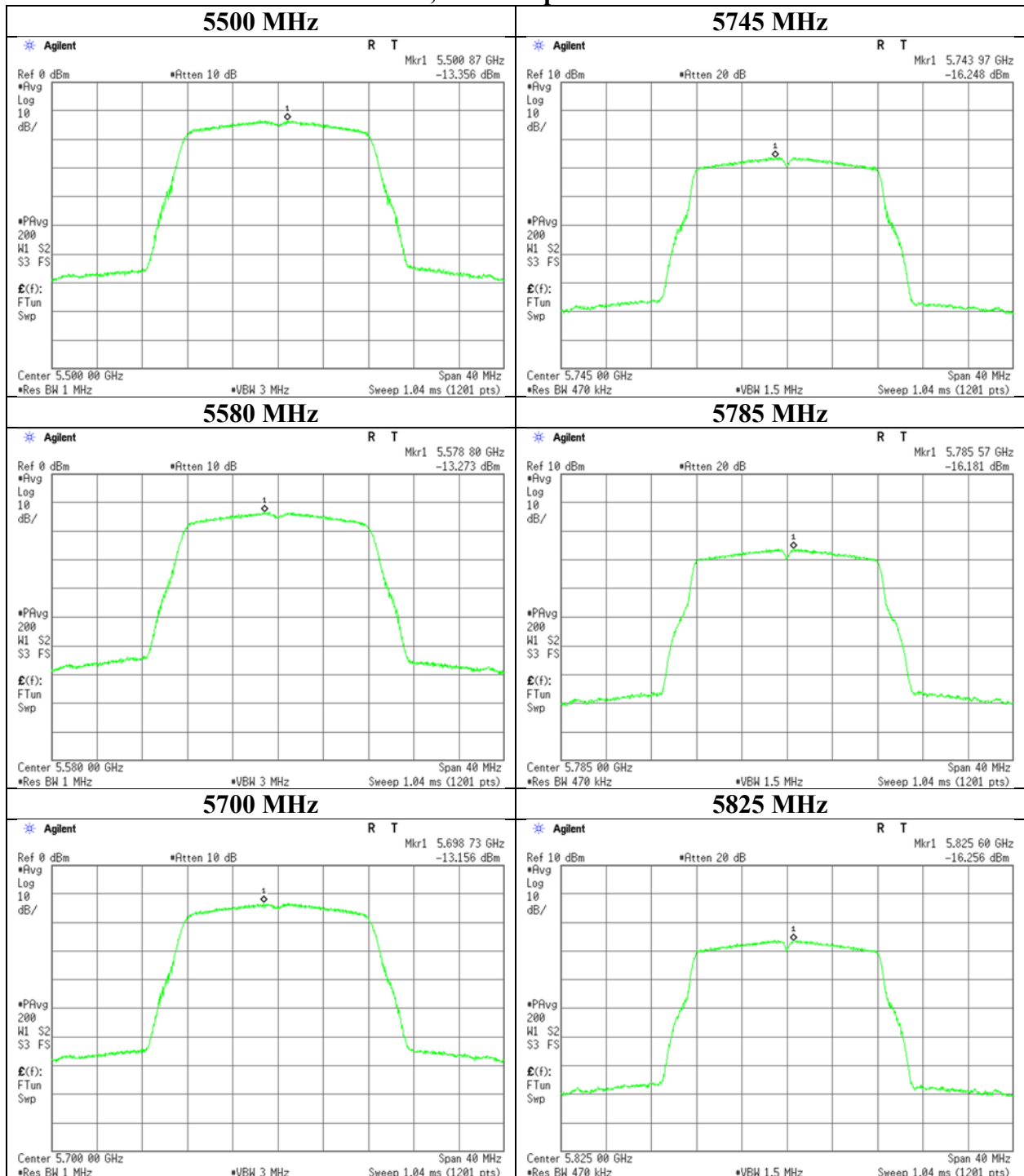
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	12079942H	
Date	February 2, 2018	February 5, 2018
Temperature / Humidity	24deg. C / 31 % RH	23deg. C / 35 % RH
Engineer	Takumi Shimada	Takumi Shimada
Mode	Tx 11a	

### 11a, Antenna port WA



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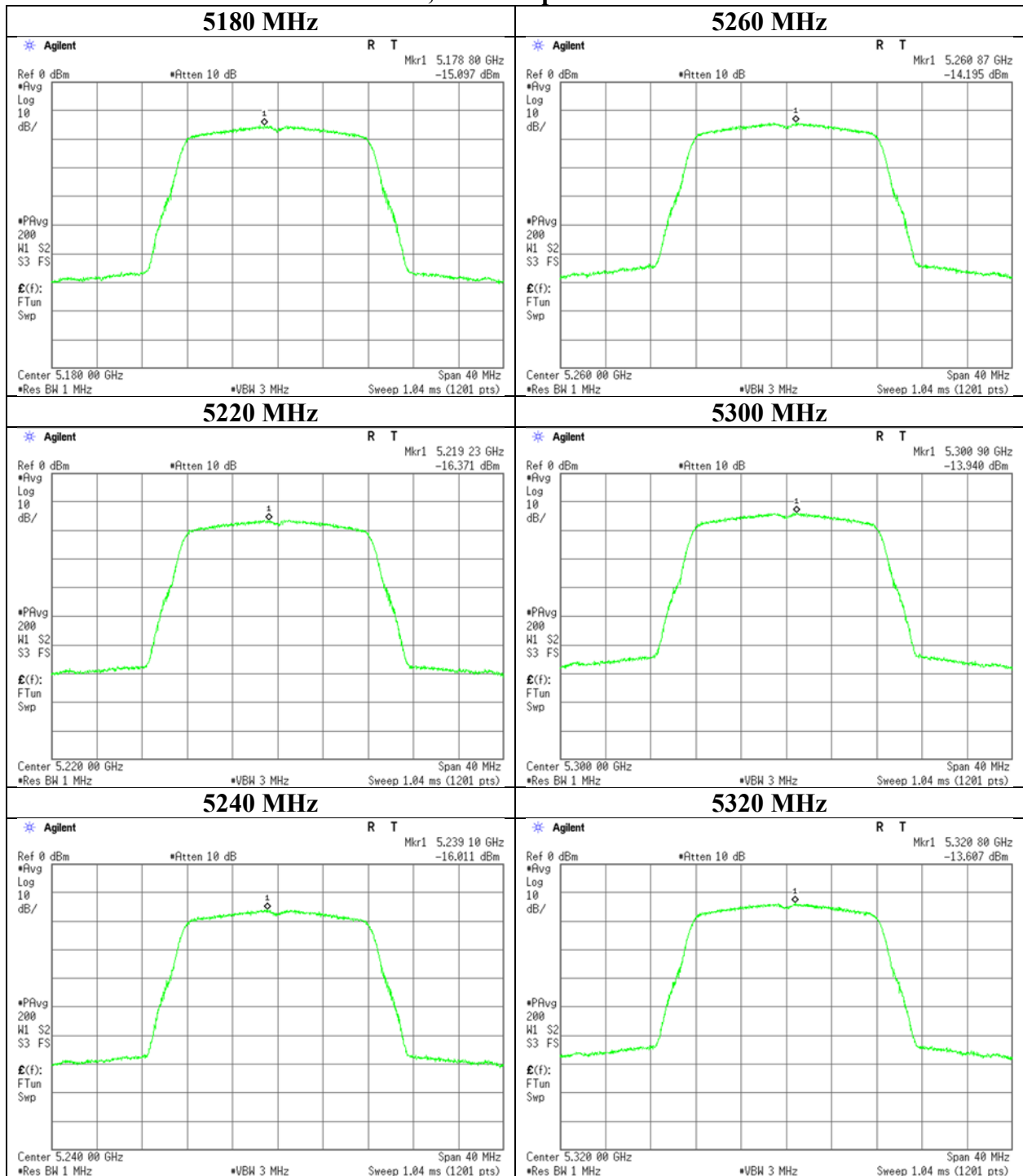
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	12079942H	
Date	February 2, 2018	February 5, 2018
Temperature / Humidity	24deg. C / 31 % RH	23deg. C / 35 % RH
Engineer	Takumi Shimada	Takumi Shimada
Mode	Tx 11a	

### 11a, Antenna port WC



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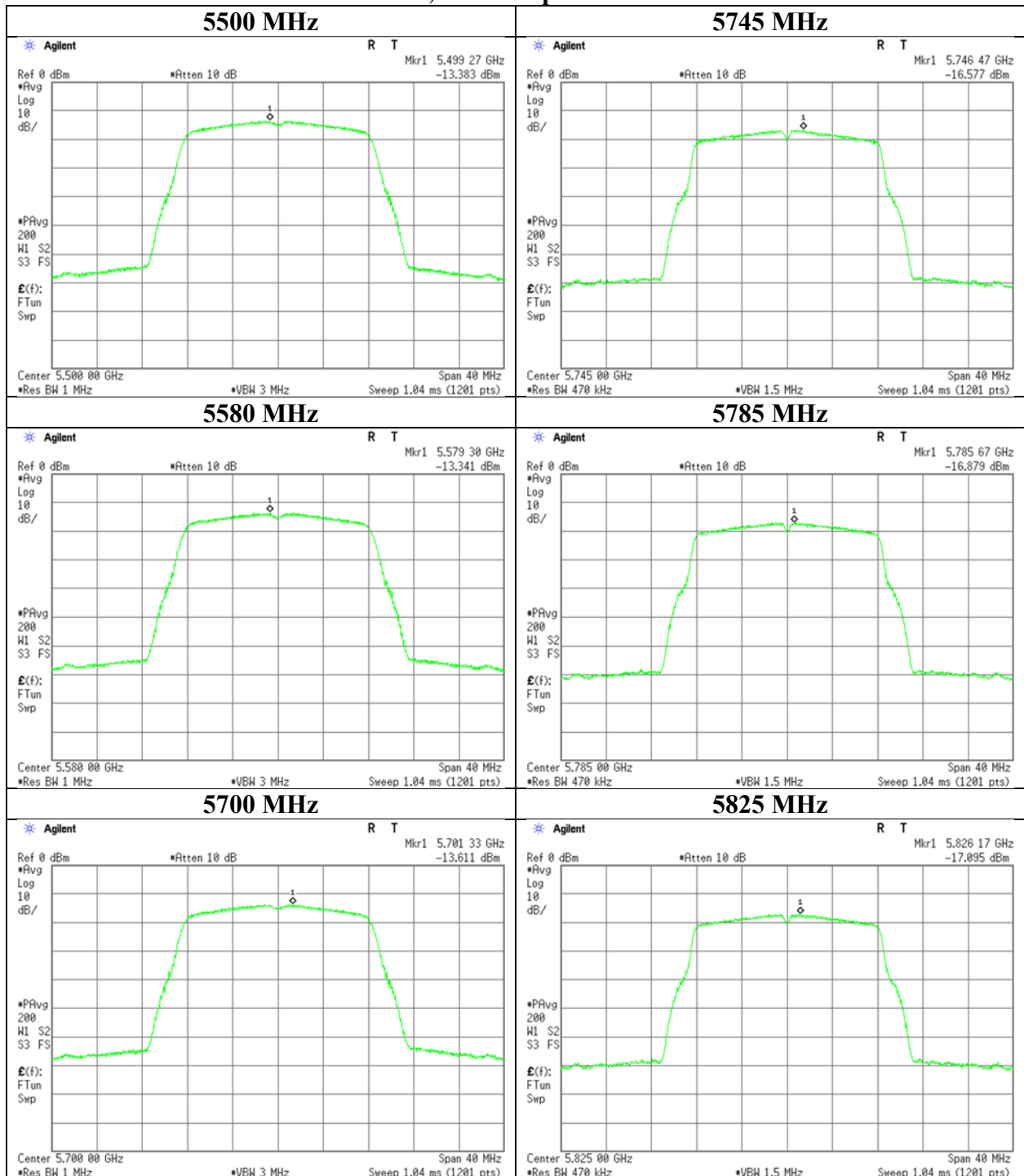
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	12079942H	
Date	February 2, 2018	February 5, 2018
Temperature / Humidity	24deg. C / 31 % RH	23deg. C / 35 % RH
Engineer	Takumi Shimada	Takumi Shimada
Mode	Tx 11a	

### 11a, Antenna port WC



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## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	12079942H	
Date	February 2, 2018	February 5, 2018
Temperature / Humidity	24deg. C / 31 % RH	23deg. C / 35 % RH
Engineer	Takumi Shimada	Takumi Shimada
Mode	Tx 11n-20	

Antenna Port WA + WC Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD (Conducted)						PSD (e.i.r.p.)					
	Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
	1	2	Sum				1	2	Sum			
[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	
5180	0.41	0.44	0.85	-0.69	9.71	10.40	2.21	2.36	4.57	6.60	17.00	10.40
5220	0.46	0.36	0.82	-0.87	9.71	10.58	2.46	1.93	4.39	6.42	17.00	10.58
5240	0.42	0.40	0.81	-0.89	9.71	10.60	2.25	2.12	4.36	6.40	17.00	10.60
5260	0.74	0.58	1.32	1.20	9.71	8.51	3.94	3.11	7.06	8.49	17.00	8.51
5300	0.68	0.65	1.33	1.25	9.71	8.46	3.67	3.48	7.15	8.54	17.00	8.46
5320	0.77	0.62	1.39	1.44	9.71	8.27	4.12	3.35	7.47	8.73	17.00	8.27
5500	0.78	0.73	1.51	1.78	9.71	7.93	4.17	3.90	8.07	9.07	17.00	7.93
5580	0.75	0.68	1.43	1.54	9.71	8.17	4.01	3.63	7.64	8.83	17.00	8.17
5700	0.74	0.66	1.40	1.46	9.71	8.25	3.96	3.55	7.50	8.75	17.00	8.25
5745	0.39	0.34	0.73	-1.39	28.71	30.10	2.07	1.82	3.89	5.90	36.00	30.10
5785	0.40	0.34	0.74	-1.31	28.71	30.02	2.14	1.82	3.96	5.98	36.00	30.02
5825	0.40	0.33	0.73	-1.35	28.71	30.06	2.15	1.78	3.93	5.94	36.00	30.06

Tested Frequency [MHz]	Antenna Port WA							Antenna Port WC						
	Duty Factor [dB]	RBW Correction Factor [dB]	PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result		PSD Reading [dBm/MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	PSD Result	
							Cond. [dBm/MHz]	e.i.r.p. [dBm/MHz]					Cond. [dBm/MHz]	e.i.r.p. [dBm/MHz]
5180	0.00	0.00	-15.71	2.02	9.84	7.29	-3.85	3.44	-15.42	2.02	9.84	7.29	-3.56	3.73
5220	0.00	0.00	-15.25	2.03	9.84	7.29	-3.38	3.91	-16.32	2.03	9.84	7.29	-4.45	2.85
5240	0.00	0.00	-15.65	2.03	9.84	7.29	-3.78	3.52	-15.90	2.03	9.84	7.29	-4.03	3.26
5260	0.00	0.00	-13.21	2.04	9.84	7.29	-1.33	5.96	-14.24	2.04	9.84	7.29	-2.36	4.93
5300	0.00	0.00	-13.55	2.05	9.85	7.29	-1.65	5.64	-13.77	2.05	9.85	7.29	-1.87	5.42
5320	0.00	0.00	-13.04	2.05	9.85	7.29	-1.14	6.15	-13.94	2.05	9.85	7.29	-2.04	5.25
5500	0.00	0.00	-13.13	2.18	9.86	7.29	-1.09	6.20	-13.42	2.18	9.86	7.29	-1.38	5.91
5580	0.00	0.00	-13.31	2.19	9.86	7.29	-1.26	6.03	-13.74	2.19	9.86	7.29	-1.69	5.60
5700	0.00	0.00	-13.38	2.20	9.86	7.29	-1.32	5.97	-13.85	2.20	9.86	7.29	-1.79	5.50
5745	0.00	0.27	-16.46	2.20	9.86	7.29	-4.13	3.16	-17.03	2.20	9.86	7.29	-4.70	2.59
5785	0.00	0.27	-16.31	2.20	9.86	7.29	-3.98	3.31	-17.01	2.20	9.86	7.29	-4.68	2.61
5825	0.00	0.27	-16.30	2.21	9.86	7.29	-3.96	3.33	-17.13	2.21	9.86	7.29	-4.79	2.50

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 \cdot \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)