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 SEWA2206000022RG05

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TEST REPORT

Test Result :	PASS *
Date of Issue:	2022/10/31
Date of Test:	2022/07/26 to 2022/10/28
Date of Receipt:	2022/07/25
Stanuarus.	FCC 47 CFR Part 15, Subpart E
Standards:	ECC 47 CEP Part 2 Subpart 1
FCC ID:	U8O-SC
Trade Mark:	Micronet
Model No.:	SmartCam (A)
EUT Description:	Micronet SmartCam
Address of Manufacturer:	16 Hamelacha St. Rosh Haayin, Israel
Manufacturer:	Micronet
Address of Applicant:	16 Hamelacha St. Rosh Haayin, Israel
Applicant:	Micronet
Application No.:	SEWA2206000022RG

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Sun

Panta Sun Wireless Laboratory Manager



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1 Version

		Revision Record		
Version	Chapter	Date	Modifier	Remark
01		2022/10/31		Original

Prepared By	Timy Song
	(Tizzy Song) / Test Engineer
Checked By	wen wei
	(Well Wei) / Reviewer



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Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result		
Antenna Requirement		15.203/15.407(a)	a)		PASS		
26dB	Band I	15.407(a)(1)			Departing		
Emission	Band II-A	15.407(a)(2)	No limit.		oply		
Bandwidth	Band II-C	15.407(a)(2)		4.5	Only		
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 4.6	PASS		
99% Occupied Bandwidth	Band I Band II-A Band II-C Band III	KDB 789033 D02§ D	No limit.	Clause 4.7	Reporting only		
Duty Cycle	Band I Band II-A Band II-C Band III		No limit.	Clause 4.3	Reporting only		
Maximum	Band I	15.407(a)	< 250mW				
Conducted Output	Band II-A Band II-C	15.407(a)(2)	<min{250mw,11dbm+10*lg(ebw)} *<="" td=""><td>Clause 4.4</td><td rowspan="2">PASS</td></min{250mw,11dbm+10*lg(ebw)}>	Clause 4.4	PASS		
Power	Band III	15.407(a)(3)	< 1W				
Maximum	Band I	15.407(a)	<11dBm/MHz*				
Power	Band II-A	15 407(2)(2)	<11dBm/MUz*	Clause	DASS		
Spectral	Band II-C	15.407 (a)(2)	<1 IdBill/Ivii Iz	4.8	1 400		
Density	Band III	15.407(a)(3)	<30dBm/500KHz				
	Band I	15.209 15.407(b)	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15- 5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS		
Unwanted Emissions that fall Out of the Restricted Bands	Band II-A	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25- 5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).	Clause 4.9	PASS		
(Radiated)	Band II-C	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47- 5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK).		PASS		
	Band III	15.407(b) 15.209	F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out-restricted:(QP)		PASS		

2 Test Summary



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			 a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). 		
Unwanted Emissions in the Restricted Bands (Radiated)	Band I Band II-A Band II-C Band III	15.209		Clause 4.10	PASS
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207		Clause 4.2	PASS
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 4.11	PASS
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A
Note :Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz Remark: *Because The antenna gain of 5150-5250MHz and 5250-5350MHz exceeds 6dBi, So limit =limit – (EUT Gain – 6dBi).					



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General Information 3

3.1 Details of Client

Applicant:	Micronet
Address of Applicant:	16 Hamelacha St. Rosh Haayin, Israel
Manufacturer:	Micronet
Address of Manufacturer:	16 Hamelacha St. Rosh Haayin, Israel

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Tizzy Song, Ives Cheng

3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

 A2LA (Certificate No. 6336.01) SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01. Innovation, Science and Economic Development Canada SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0120. IC#: 27594. • FCC – Designation Number: CN1312 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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EUT Description:	Micronet Sr	nartCam		
Model No.:	SmartCam (A)			
Trade Mark:	Micronet			
Hardware Version:	V1.0			
Software Version:	V10.0			
	RF Conduc	ted	86419	97040497231
IMEI:	RSE & AC	power line	86657	7060871878
	802.11a:	20 MHz chann	el banc	width
WLAN Mode Supported:	802.11n:	20 MHz / 40 M	Hz cha	nnel bandwidth
Operation Frequency:	5150MHz to 5250MHz to 5470MHz to 5725MHz to	o 5250MHz o 5350MHz o 5725MHz o 5850MHz		
Madulation Trunce	802.11a:	OFDM (BPSK,	QPSK	, 16QAM, 64QAM)
Modulation Type:	802.11n:	OFDM (BPSK,	QPSK	, 16QAM, 64QAM)
Channel Spacing:	20MHz:	802.11a/n(HT20)		
Channel Spacing.	40MHz: 802.11n(HT40)			
Antenna Type:	External, Integrated			
Antenna Gain:	5150MHz to 5250MHz: 6.29dBi; 5250MHz to 5350MHz: 6.29dBi; 5470MHz to 5725MHz: 5.57dBi; 5725MHz to 5850MHz: 4.28dBi; Note: The antenna gain are derived from the gain information report provided by the			
		802.11a/n		
		CDD: 802.1	la/n/ac	: Tx & Rx
Smart System:		STBC: 802.1	1n/ac:	Tx & Rx
		TXBF: 802.1	TXBF: 802.11n/ac: Tx & Rx	
	Diversity	ersity 802.11a: Tx & Rx		
DES Function:	Master			
	Slave with radar detection			Slave without radar detection
RF Cable:	2dB			
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3.4 General Description of EUT



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Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:					
Mode	Channel	Frequency(MHz)			
IEEE 802.11a/n 20MHz	The Lowest channel	5180			
	The Middle channel	5200			
	The Highest channel	5240			
	The Lowest channel	5190			
	The Highest channel	5230			

For UNII Band II-A:					
Mode	Channel	Frequency(MHz)			
IEEE 802.11a/n 20MHz	The Lowest channel	5260			
	The Middle channel	5280			
	The Highest channel	5320			
	The Lowest channel	5270			
	The Highest channel	5310			



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For UNII Band II-C:		
Mode	Channel	Frequency(MHz)
	The Lowest channel	5500
IEEE 802.11a/n 20MHz	The Middle channel	5580
	The Highest channel	5700
	The Lowest channel	5510
IEEE 802.11n 40MHz	The Middle channel	5550
	The Highest channel	5670

For UNII Band III:		
Mode	Channel	Frequency(MHz)
	The Lowest channel	5745
IEEE 802.11a/n 20MHz	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n 40MHz	The Lowest channel	5755
	The Highest channel	5795



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3.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	12
Remark:		
NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15 Section 15.203	
The antenna is integrated an	tenna and no consideration of replacement. The best case gain of the antenna is	
5150MHz to 5250MHz: 6.290	dBi; *	
5250MHz to 5350MHz: 6.290	dBi; *	
5470MHz to 5725MHz: 5.57dBi; *		
5725MHz to 5850MHz: 4.28dBi; *		
*Note:		
The antenna gain are derived from the gain information report provided by the manufacturer.		
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Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30)kHz	
Limit:	- (111)	Limit (d	BuV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the log	arithm of the frequency.	
Test Procedure:	0.5-5 56 46 5-30 60 50 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielde room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linea impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of		conducted in a shielded ugh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω linear the EUT were to the ground reference leing measured. A ultiple power cables to a ot exceeded. table 0.8m above the angement, the EUT was erence plane. The rear reference plane. The rear reference plane. The horizontal ground m the boundary of the plane for LISNs is distance was EUT. All other units of .8 m from the LISN 2. e positions of changed according to

4.2 AC Power Line Conducted Emissions

SG



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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



6 Remark:

9.0195

1. The following Quasi-Peak and Average measurements were performed on the EUT:

53.15

60.00

6.85

35.16

45.82

50.00

4.18

PASS

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

42.49

3. Margin = Limit[dBµV] – Value[dBµV]

10.66



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1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).

3. Margin = Limit[dB μ V] – Value[dB μ V]



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4.3 Duty Cycle

The detailed test data see: Appendix



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Test Requirement:	47 CFR Part 15 Se	ection 15.407(a)
Test Method:	ANSI C63.10 :2013	3 Section11.9.2.3
Test Setup:	Pewer metar	Power coole E.U.T Ground Reference Plane
	* Test with power r	neter (Detector function: Average)
Test Instruments:	Refer to section 6 f	or details.
Exploratory Test Mode:	Transmitting with a	ll kind of modulations, data rates
Final Test Mode:	Refer to section 3.7	7 for details.
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5470-5725MHz	The lesser of 250mW(24dBm) or 11+ 10logB
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	
The detailed test data see: A	ppendix	

4.4 Conducted Output Power



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Test Requirement: 47 CFR Part 15 Section 15.407(a), KDB 789033 D02& C Test Method: ANSI C63.10: 2013 Section 11.8 Option 2 Test Setup: SGS Test system 0 PC Communication Tester 0 0 m E.U.T Analog Signal G 9 DC Power 00000 Ground Reference Plane Instruments Used: Refer to section 6 for details. Exploratory Test Mode: Transmitting with all kind of modulations, data rates Final Test Mode: Refer to section 3.7 for details. Limit: No restriction limits Test Results: Pass The detailed test data see: Appendix

4.5 26dB Emission Bandwidth



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Test Requirement: 47 CFR Part 15 Section 15.407(e) Test Method: ANSI C63.10: 2013 Section 11.8 Option 2 Test Setup: SGS Test system 0 PC Tester 0 0 m E.U.T Analog Signal G 9 DC Power 00000 Ground Reference Plane **Test Instruments:** Refer to section 6 for details. Exploratory Test Mode: Transmitting with all kind of modulations, data rates Final Test Mode: Refer to section 3.7 for details. Frequency Band Limit Limit: 5725-5850MHz At lease 500kHz **Test Results:** Pass The detailed test data see: Appendix

4.6 6dB Emission Bandwidth



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Test Requirement: KDB 789033 D02§ D Test Method: ANSI C63.10: 2013 Section 6.9.3 Test Setup: SGS Test system 0 PC Communication -Cont O 0 0 0 m E.U.T Analog Signal Gen DC Power 00000 l **Ground Reference Plane** Instruments Used: Refer to section 6 for details. Exploratory Test Mode: Transmitting with all kind of modulations, data rates Final Test Mode: Refer to section 3.7 for details. Limit: No restriction limits **Test Results:** Pass The detailed test data see: Appendix

4.7 99% Occupied Bandwidth



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Test Requirement:	47 CFR Part 15 Sec	tion 15.407(a)
Test Method:	ANSI C63.10: 2013 KDB 789033 D02 v(Section 11.10.2 02r01, Section F.
Test Setup:	PC	SGS Test system Vector Silonal Generator Image: Spectrum Analyzer Spectrum Analyzer Image: Spectrum Analyzer Image: Spectrum Analyzer Image: Spectrum Analyzer </td
Instruments Used:	Refer to section 6 fo	r details.
Exploratory Test Mode:	Transmitting with all	kind of modulations, data rates
Final Test Mode:	Refer to section 3.7	for details.
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than <30dBm/500KHz
Test Results:	Pass	
The detailed test data see: A	ppendix	

4.8 Power Spectral Density



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4.9 Radiated Spurious Emissions Test Requirement: 47 CFR Part 15 Section 15.205 and 15.209 Test Method: ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6 Test Site: Measurement Distance: 3m or 10m (Semi-Anechoic Chamber) Test frequency: 9kHz ~ 40GHz(or 10 Harmonic) Test Setup: Antenna (Turntable Figure 1. 9kHz to 30MHz EUT Turntabl Ground Refere nce Plan Test Receiver Co Figure 1. 30MHz to 1GHz Figure 2. Above 1 GHz Test Procedure: For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 a. meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. (Distance from antenna to EUT is 1m for measurements >18GHz). The EUT was set 3 or 10 meters away from the interference-receiving c. antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and e. Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions,aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions,argrems-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein, Any holder of this document is advised that information contained hereion reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unawill and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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then the antenna was tuned to heights from 1 meter to A meters and the rotatable table was tuned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported K. The disturbance above 18GHz was very low, and the harmonics ware the highest point could be found when testing, so only the harmonics had been displayed. I. A ra measurement distance of 1 meter the limit line was increased by 20°LOG(3/1) = 9.54 dB. Test Configuration: Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 10 MHz VBW ≥ 37 PaWJ Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 13 Pa KJJ Detector = RMS (power averaging), if span / (# of points in		
Test Configuration: Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Trace mode = max hold • VBW ≥ 3 MHz • Detector = Peak • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold • Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = Peak • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass The detailed test data see: Appendix		 then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.
Test Configuration: Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass The detailed test data see: Appendix		20 LOO(0/1) = 3.04 UD.
Exploratory Test Mode:Transmitting with all kind of modulations, data rates.Final Test Mode:Refer to section 3.7 for details.Instruments Used:Refer to section 6 for details.Test Results:PassThe detailed test data see:Appendix	Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW \ge 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW \ge [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) \le (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Final Test Mode: Refer to section 3.7 for details. Instruments Used: Refer to section 6 for details. Test Results: Pass The detailed test data see: Appendix	Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Instruments Used: Refer to section 6 for details. Test Results: Pass The detailed test data see: Appendix	Final Test Mode:	Refer to section 3.7 for details.
Test Results: Pass The detailed test data see: Appendix	Instruments Used:	Refer to section 6 for details.
The detailed test data see: Appendix	Test Results:	Pass
	The detailed test data see	: Appendix



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4.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013 Section	11.12	
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

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Test Getup.	
	Im or 3m Im or
Test Procedure:	a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	 b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
	g. Test the EUT in the outermost channels.
	 The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.



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	i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	 Detector = Peak
	 Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	 Detector = Peak
	 Sweep time = auto
	 Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	• VBW ≥ [3 *RBW]
	 Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
	• Sweep time = auto
	 Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



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4.11 Dynamic Frequency Selection

4.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode				
	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode					
	Master Device or Client	Client Without				
	with Radar Detection	Radar Detection				
DFS Detection Threshold	Yes	Not required				
Channel Closing Transmission Time	Yes	Yes				
Channel Move Time	Yes	Yes				
U-NII Detection Bandwidth	Yes	Not required				
Additional requirements for devices with	Master Device or Client with	Client Without Radar				
multiple bandwidth modes	Radar Detection	Detection				
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required				
Performance Check						
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest				
Transmission Time	available	BW mode available for				
		the link				
All other tests	Any single BW mode	Not required				
Note: Frequencies selected for statistical perfe	ormance check (Section 7.8.4) sho	uld include several				
frequencies within the radar detection	frequencies within the radar detection bandwidth and frequencies near the edge of the radar					
detection bandwidth. For 802.11 device	ces it is suggested to select freque	ncies in each of the				
bonded 20 MHz channels and the channel center frequency.						



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4.11.2 DFS Detection Thresholds

 Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value			
	(See Notes 1, 2, and 3)			
$EIRP \ge 200 milliwatt$	-64 dBm			
EIRP < 200 milliwatt and	-62 dBm			
power spectral density < 10 dBm/MHz				
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm			
requirement				
Note 1: This is the level at the input of the receiver assuming a 0 dE	Bi receive antenna.			
Note 2: Throughout these test procedures an additional 1 dB has be	en added to the amplitude of the			
test transmission waveforms to account for variations in measureme	ent equipment. This will ensure that			
the test signal is at or above the detection threshold level to trigger a DFS response.				
Note3: EIRP is based on the highest antenna gain. For MIMO devi	ces refer to KDB Publication			
662911 D01.				

4.11.3 RADAR TEST WAVEFORMS

Table 5 – Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	.1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	$\operatorname{Roundup}\left\{ \begin{pmatrix} \frac{1}{360} \end{pmatrix}, \\ \begin{pmatrix} \frac{19 \cdot 10^{6}}{\operatorname{PRI}_{\mu \operatorname{sec}}} \end{pmatrix} \right\}$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate	(Radar Types 1-	4)		80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.



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Table 5a - Pulse Repetition Intervals Values for Test A						
Pulse Repetition	Pulse Repetition Frequency	Pulse Repetition				
Frequency	(Pulses Per Second)	Interval				
Number		(Microseconds)				
1	1930.5	518				
2	1858.7	538				
3	1792.1	558				
4	1730.1	578				
5	1672.2	598				
6	1618.1	618				
7	1567.4	638				
8	1519.8	658				
9	1474.9	678				
10	1432.7	698				
11	1392.8	718				
12	1355	738				
13	1319.3	758				
14	1285.3	778				
15	1253.1	798				
16	1222.5	818				
17	1193.3	838				
18	1165.6	858				
19	1139	878				
20	1113.6	898				
21	1089.3	918				
22	1066.1	938				
23	326.2	3066				

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type Number of Trials		Number of Successful Detections	Minimum Percentage of Successful				
			Detection				
1	35	29	82.9%				
2	30	18	60%				
3	30	27	90%				
4	50	44	88%				
Aggregate (82.9% + 60	Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%						



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	Table 0 - Long Fulse Radar Test waveform								
Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per <i>Burst</i>	Number of <i>Bursts</i>	Minimum Percentage of Successful Detection	Minimum Number of Trials		
5	50-100	5-20	1000- 2000	1-3	8-20	80%	30		

Table 6 – Long Pulse Radar Test Waveform

Fable 7 –	- Frequency	Hopping	Radar	Test	Waveform
-----------	-------------	---------	-------	------	----------

Radar Type	Pulse Width	PRI (µsec)	Pulses per	Hopping Rate	Hopping Sequence	Minimum Percentage of	Minimum Number of
	(µsec)		Нор	(KHZ)	(msec)	Detection	Irials
6	1	333	9	0.333	300	70%	30

4.11.4 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over remaining
	10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See Note
	3.

Note 1: *Channel Move Time* and the *Channel Closing Transmission Time* should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. **Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. **Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: Appendix



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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
		± 3.13dB (9k -30MHz)
0		± 4.80dB (30M -1GHz)
0		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

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The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment								
Equipment	Manufacturer	Model No. Inventory No.		Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Shielding Room	Brilliant-emc	N/A	SUWI-04-01- 06	2021/05/08	2024/05/07			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01- 07	2022/02/16	2023/02/15			
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02- 02	2022/05/17	2023/05/16			
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09- 09	NCR	NCR			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02- 04	2022/05/28	2023/05/27			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18- 01	2022/02/15	2023/02/14			
Power meter	Anritsu	ML2495A	SUWI-01-31- 01	2021/12/04	2022/12/03			
Pulse power sensor	Anritsu	MA2411b	SUWI-01-32- 01	2021/12/04	2022/12/03			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13- 01	2022/02/15	2023/02/14			
Router	ASUS	GT- AXE11000(FCC ID MSQ- RTAXJF00)	SUWI-03-14- 02	NCR	NCR			

CE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/19	2023/02/18		
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/19	2023/02/18		
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR		



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RSE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07		
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15		
Signal Analyzer*	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27		
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15		
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13		
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13		
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13		
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18		
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09		
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR		



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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Emission Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant1	5180	22.88	5168.16	5191.04		
		5220	22.52	5208.76	5231.28		
		5240	23.20	5228.68	5251.88		
		5260	22.20	5248.88	5271.08		
		5300	22.36	5288.76	5311.12		
		5320	22.48	5308.76	5331.24		
		5500	22.36	5488.76	5511.12		
		5580	22.76	5568.72	5591.48		
		5700	25.96	5686.92	5712.88		
		5745	22.52	5733.68	5756.20		
		5785	22.68	5773.32	5796.00		
		5825	22.60	5813.60	5836.20		
	Anti	5180	22.64	5168.72	5191.36		
		5220	22.80	5208.52	5231.32		
		5240	22.52	5228.72	5251.24		
		5260	22.84	5248.56	5271.40		
11-208180		5300	22.60	5288.72	5311.32		
		5320	22.60	5308.68	5331.28		
111203130	Ann	5500	23.04	5488.44	5511.48		
		5580	22.80	5568.72	5591.52		
		5700	23.28	5688.12	5711.40		
		5745	22.72	5733.48	5756.20		
		5785	22.68	5773.48	5796.16		
		5825	22.68	5813.64	5836.32		
11n40SISO	Ant1	5190	43.28	5168.24	5211.52		
		5230	43.44	5208.16	5251.60		
		5270	44.48	5247.92	5292.40		
		5310	43.68	5288.24	5331.92		
		5510	44.48	5487.68	5532.16		
		5550	44.24	5527.84	5572.08		
		5670	44.40	5647.52	5691.92		
		5755	44.16	5732.76	5776.92		
		5795	43.44	5773.08	5816.52		



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Occupied channel bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant1	5180	17.919	5170.997	5188.916		
		5220	17.951	5211.000	5228.951		
		5240	17.894	5231.014	5248.908		
		5260	17.919	5250.988	5268.907		
		5300	17.938	5291.004	5308.942		
		5320	17.87	5311.032	5328.902		
		5500	17.867	5491.056	5508.922		
		5580	17.967	5570.991	5588.958		
		5700	17.905	5691.033	5708.938		
		5745	17.934	5735.974	5753.908		
		5785	17.958	5775.959	5793.917		
		5825	17.847	5815.990	5833.838		
11n20SISO	Ant1	5180	18.66	5170.658	5189.318		
		5220	18.668	5210.656	5229.324		
		5240	18.654	5230.690	5249.343		
		5260	18.628	5250.663	5269.291		
		5300	18.728	5290.623	5309.351		
		5320	18.718	5310.615	5329.333		
		5500	18.697	5490.634	5509.331		
		5580	18.696	5570.648	5589.344		
		5700	18.704	5690.635	5709.339		
		5745	18.724	5735.602	5754.326		
		5785	18.682	5775.620	5794.302		
		5825	18.729	5815.595	5834.325		
11n40SISO	Ant1	5190	36.822	5171.561	5208.383		
		5230	36.912	5211.535	5248.447		
		5270	36.802	5251.656	5288.458		
		5310	36.814	5291.645	5328.459		
		5510	36.822	5491.645	5528.467		
		5550	36.826	5531.598	5568.424		
		5670	36.718	5651.687	5688.406		
		5755	36.784	5736.570	5773.354		
		5795	36.77	5776.502	5813.272		



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Min emission bandwidth Test Result B4

TestMode	Antenna	Frequency[MHz]	6dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11a	Ant1	5745	16.48	5736.72	5753.20	≥0.5	PASS
		5785	16.48	5776.72	5793.20	≥0.5	PASS
		5825	16.48	5816.72	5833.20	≥0.5	PASS
11n20SISO	Ant1	5745	17.68	5736.12	5753.80	≥0.5	PASS
		5785	17.68	5776.12	5793.80	≥0.5	PASS
		5825	17.68	5816.12	5833.80	≥0.5	PASS
11n40SISO	Ant1	5755	35.52	5737.16	5772.68	≥0.5	PASS
		5795	35.52	5777.16	5812.68	≥0.5	PASS



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Test Graphs B4





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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11a	Ant1	5180	1.36	1.38	98.55
11n20SISO	Ant1	5180	1.27	1.29	98.45
11n40SISO	Ant1	5190	1.22	1.24	98.39



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Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
		5180	16.95	≤23.69*	PASS
		5220	16.89	≤23.69*	PASS
		5240	16.77	≤23.69*	PASS
		5260	16.63	≤23.69*	PASS
		5300	16.26	≤23.69*	PASS
110	Ant1	5320	16.13	≤23.69*	PASS
IId	Anti	5500	15.86	≤23.98	PASS
		5580	16.35	≤23.98	PASS
		5700	16.11	≤23.98	PASS
		5745	16.56	≤30.00	PASS
		5785	15.55	≤30.00	PASS
		5825	14.66	≤30.00	PASS
		5180	15.92	≤23.69*	PASS
	Ant1	5220	15.79	≤23.69*	PASS
		5240	15.80	≤23.69*	PASS
		5260	15.52	≤23.69*	PASS
		5300	15.21	≤23.69*	PASS
11-208180		5320	15.03	≤23.69*	PASS
111203130		5500	15.03	≤23.98	PASS
		5580	15.34	≤23.98	PASS
		5700	16.31	≤23.98	PASS
		5745	15.65	≤30.00	PASS
		5785	14.67	≤30.00	PASS
		5825	13.70	≤30.00	PASS
		5190	15.05	≤23.69*	PASS
		5230	14.80	≤23.69*	PASS
		5270	14.49	≤23.69*	PASS
		5310	14.22	≤23.69*	PASS
11n40SISO	Ant1	5510	13.78	≤23.98	PASS
		5550	14.02	≤23.98	PASS
		5670	15.23	≤23.98	PASS
		5755	14.42	≤30.00	PASS
		5795	13.40	≤30.00	PASS

Remark: *The antenna gain of 5150MHz~5250MHz and 5250MHz~5350MHz exceeds 6dBi: 5150MHz~5250MHz and 5250MHz~5350MHz Limit =23.98dBm-(6.29dBi-6dBi)=23.69dBm.



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
		5180	5.73	≤10.71*	PASS
		5220	5.76	≤10.71*	PASS
		5240	5.45	≤10.71*	PASS
		5260	5.28	≤10.71*	PASS
		5300	4.97	≤10.71*	PASS
110	Ant1	5320	4.94	≤10.71*	PASS
IIa	Ann	5500	4.75	≤11.00	PASS
		5580	5.1	≤11.00	PASS
		5700	6.03	≤11.00	PASS
		5745	2.42	≤30.00	PASS
		5785	1.39	≤30.00	PASS
		5825	0.58	≤30.00	PASS
		5180	4.55	≤10.71*	PASS
	Ant1	5220	4.23	≤10.71*	PASS
		5240	4.24	≤10.71*	PASS
		5260	4.03	≤10.71*	PASS
		5300	3.7	≤10.71*	PASS
11-208180		5320	3.52	≤10.71*	PASS
111203130		5500	3.39	≤11.00	PASS
		5580	3.81	≤11.00	PASS
		5700	4.72	≤11.00	PASS
		5745	1.24	≤30.00	PASS
		5785	0.56	≤30.00	PASS
		5825	-0.63	≤30.00	PASS
		5190	0.68	≤10.71*	PASS
		5230	0.25	≤10.71*	PASS
		5270	0.21	≤10.71*	PASS
		5310	-0.22	≤10.71*	PASS
11n40SISO	Ant1	5510	-0.72	≤11.00	PASS
		5550	-0.43	≤11.00	PASS
		5670	0.82	≤11.00	PASS
		5755	-2.74	≤30.00	PASS
		5795	-3.65	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725-5.85 GHz.

2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

Remark: *The antenna gain of 5150MHz~5250MHz and 5250MHz~5350MHz exceeds 6dBi:

5150MHz~5250MHz and 5250MHz~5350MHz Limit =11dBm-(6.29dBi-6dBi)=10.71dBm.



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DFS Detection Thresholds

Test Result

TestMode	Frequency[dbm]	Radar Type	Result	Limit[dbm]	Verdict
11n40SISO	5510	Type0	-62.23	-62.00	PASS



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Test Graphs



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Channel Move Time and Channel Closing Transmission Time Test Result

TestMode	Frequency[MHz]	CCTT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11n40SISO	5510	200+13	200+60	881.1	10000	PASS

Test Graphs





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Non-Occupancy Period

Test Result

TestMode	Frequency[MHz]	Result	Limit[s]	Verdict
11n40SISO	5510	see test graph	≥1800	PASS

Test Graphs





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Data Traffic Plot

Test Graphs





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Radiated Spurious Emissions Radiated emission below 1GHz Worst case Mode: 11n20_Channel 120 11n20_Channel 120



Final Data List										
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	38.9725	42.11	-36.31	13.93	19.73	40.00	20.27	215	350	Horizontal
2	78.5	42.03	-35.76	9.52	15.79	40.00	24.21	136	170	Horizontal
3	103.4775	53.26	-35.90	10.49	27.86	43.50	15.64	255	179	Horizontal
4	106.3875	45.33	-36.01	10.78	20.10	43.50	23.40	195	179	Horizontal
5	137.185	40.29	-35.58	13.31	18.02	43.50	25.48	148	312	Horizontal
6	179.38	44.19	-35.22	14.66	23.63	43.50	19.87	188	348	Horizontal



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	11n20_	_Channel	120
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Final Data List										
NO.	Frequency [MHz]]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.79	46.23	-36.41	13.63	23.46	40.00	16.54	215	359	Vertical
2	46.7325	51.22	-36.18	13.61	28.65	40.00	11.35	145	359	Vertical
3	56.675	55.02	-36.31	13.01	31.72	40.00	8.28	126	280	Vertical
4	75.8325	47.12	-36.00	9.93	21.05	40.00	18.95	236	301	Vertical
5	88.2	55.48	-36.29	9.41	28.61	43.50	14.89	251	312	Vertical
6	110.025	55.13	-36.15	11.13	30.11	43.50	13.39	199	350	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The 1) basic equation with a sample calculation is as follows:

Value = Reading(dB μ V) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)

2) All channels have been tested, but only the worst case data displayed in this report.



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