RF Exposure Evaluation declaration

Product Name	:	Intel®	Wireless-AC 9560
Model No.	:	9560N	GW
FCC ID	:	2ANP	M9560NG

Applicant : Nexstgo Company Limited
Address : FLAT/RM 1602 16/F ENTERPRISE SQUARE TOWER II NO.9
SHEUNG YUET ROAD, KOWLOON BAY, Hong Kong

Date of Receipt:Oct. 24, 2018Date of Declaration :Dec. 07, 2018Report No.:18A0330R-SAUSP03V00

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Dec. 07, 2018 Report No.: 18A0330R-SAUSP03V00



Product Name	Intel® Wireless-AC 9560
Applicant	Nexstgo Company Limited
	FLAT/RM 1602 16/F ENTERPRISE SQUARE TOWER II NO.9
Address	SHEUNG YUET ROAD, KOWLOON BAY, Hong Kong
Manufacturer	Intel Mobile Communications France SAS
Model No.	9560NGW
FCC ID.	2ANPM9560NG
Trade Name	Intel
Applicable Standard	ECC 47 CER 1 1310
Applicable Standard	1°CC 47 CFK 1.1510
Test Result	Complied

Documented By :

Anny Chou

(Senior Adm. Specialist / Anny Chou)

Tested By :

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(Senior Engineer / Wen Lee)

Approved By :

(Director / Vincent Lin)



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Intel® Wireless-AC 9560
Trade Name	Intel
Model No.	9560NGW
FCC ID.	2ANPM9560NG
TX Frequency	802.11b/g/n-20MHz:2412MHz~2472MHz, 802.11n-40MHz: 2422MHz~2462MHz
	802.11a/n-20:5180-5320MHz,5500-5720MHz, 5745-5825MHz
	802.11n-40/MHz: 5190-5310MHz, 5510-5670MHz, 5755-5795MHz
	802.11ac-20MHz: 5720MHz, 802.11ac-40MHz: 5710MHz
	802.11ac-80MHz: 5210-5290MHz, 5530-5690MHz, 5775MHz
	802.11ac-160: 5250MHz, BT : 2402 – 2480MHz
Channel separation	802.11b/g/n-20MHz: 5 MHz, 802.11a/n-20/ac-20MHz: 20MHz
	802.11n-40/ac-40MHz: 40MHz, 802.11ac-80MHz: 80MHz
	802.11ac-160MHz: 320MHz, BT : 1MHz , BLE : 2MHz
Number of Channels	802.11b/g/n-20MHz: 13, n-40MHz: 9
	802.11a/n-20MHz: 24; 802.11n-40MHz: 11
	802.11ac-20MHz: 1, 802.11ac-40MHz: 1,802.11ac-80MHz: 6
	802.11ac-160MHz: 1, BT : 79 , BLE : 40
Data Rate	802.11b: 1-11Mbps, 802.11a/g: 6-54Mbps, 802.11n: up to 300Mbps
	802.11ac-80MHz: up to 866.7Mbps, 802.11ac-160: up to 1733.3Mbps
	BT : 3Mbps , BLE : 1Mpbs
Type of Modulation	DSSS/OFDM/BPSK/QPSK/16QAM/64QAM/256QAM
	FHSS: GFSK(1Mbps) / π/4DQPSK(2Mbps) / 8DPSK(3Mbps)
Antenna Type	PIFA/SLOT Antenna
Channel Control	Auto
Antenna Gain	Refer to the table "Antenna List"

1.2. Antenna List :

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Jieng Tai International	JT1805YY0311 (Main)	PIFA	-0.88 dBi for 2.4GHz 2.41dBi for 5.15-5.25 GHz
	Electronic Corp.	JT1805YY1511 (Aux)		1.96dBi for 5.25-5.35 GHz
				1.27 dBi for 5.725~5.850GHz
2	Well Green Technology	SNSUPWIPB01 (Main)	SLOT	-0.07 dBi for 2.4GHz -0.13dBi for 5.15-5.25 GHz
	Co., LTD.	SNSUPWIPB03 (Aux)		1.49dBi for 5.25-5.35 GHz
				0.73dBi for 5.47-5.725 GHz 0.66 dBi for 5.725~5.850GHz

Note: Only the higher gain antenna was tested and recorded in this report.

2. **RF Exposure Evaluation**

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b) LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time				
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm^2)	(Minutes)				
(A) Limits for Occupational/ Control Exposures								
300-1500			F/300	6				
1500-100,000			5	6				
(B) Limits for General Population/ Uncontrolled Exposures								
300-1500	300-1500		F/1500					
1500-100,000			1	30				

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

Where

 $Pd = power density in mW/cm^2$

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

 $\mathbf{R}=$ distance between observation point and center of the radiator in cm



2.2. Test Result of RF Exposure Evaluation

Product	:	Intel® Wireless-AC 9560
Test Item	:	RF Exposure Evaluation

WLAN 2.4G

Band	Frequency	Conducted Worst Case Peak Power (dBm)	Worst Case Duty Cycle (%)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
802.11g	2442	29.88	80	1215.93	0.242	1	Pass

Note: The conducted output power is refer to report No.: 18A0330R-RFUSP12V00 from the DEKRA.

WLAN 5G Peak Gain: 2.41dBi

Band	Frequency	Conducted Worst Case AV Power (dBm)	Worst Case Duty Cycle (%)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	Pass/Fail
802.11n20	5825	24.11	79	326.12	0.113	1	Pass

Note: The conducted output power is refer to report No.: 18A0330R-RFUSP12V00-A from the DEKRA.