

FCC TEST REPORT

(15.407)

REPORT NO.: RF141029C03-1
MODEL NO.: MR72-HW
FCC ID: UDX-60033010
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF141029C03-1	Original release	Dec. 22, 2014

1. CERTIFICATION

PRODUCT: 802.11 abgn/ac device

MODEL: MR72-HW

BRAND: Cisco

APPLICANT: Cisco Systems, Inc.

TESTED: Oct. 07 ~ Dec. 10, 2014

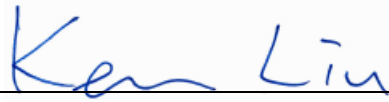
TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart E (Section 15.407)

The above equipment (model: MR72-HW) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :  , **DATE :** Dec. 22, 2014

Pettie Chen / Senior Specialist

APPROVED BY :  , **DATE :** Dec. 22, 2014

Ken Liu / Senior Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407 Under New Rules)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -9.88dB at 23.14211MHz.
15.407(b)(1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 30MHz, 108.40MHz, 154.13MHz, 5000.00MHz, 5714.00MHz, 5861.00MHz, 11570.00MHz
15.407(a)(1/2/3)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(e)	6dB bandwidth	PASS	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	For Dipole, Patch, Sector antenna: Antenna connector is N-Type. (The device is professionally installed). For PIFA antenna: No antenna connector is used.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.86 dB
	200MHz ~1000MHz	3.87 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	802.11 abgn/ac device
MODEL NO.	MR72-HW
POWER SUPPLY	55Vdc (POE)
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK
MODULATION TECHNOLOGY	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps 802.11ac: up to 866.6Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80)
OUTPUT POWER	Dipole Antenna: Radio 2: 144.259mW for 5180 ~ 5240MHz 170.228mW for 5745 ~ 5825MHz Patch Antenna: Radio 2: 82.325mW for 5180 ~ 5240MHz 489.452mW for 5745 ~ 5825MHz Sector Antenna: Radio 2: 6.250mW for 5180 ~ 5240MHz 112.168mW for 5745 ~ 5825MHz PIFA Antenna: Radio 3: 25.003mW for 5180 ~ 5240MHz 145.211mW for 5745 ~ 5825MHz
ANTENNA TYPE	Refer to note
ANTENNA CONNECTOR	Refer to note
DATA CABLE	NA

I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	NA

NOTE:

- The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

MODULATION MODE	TX FUNCTION	REMARK
2.4GHz Band		
802.11b	1TX	Radio 3
	2TX	Radio 1
802.11g	1TX	Radio 3
	2TX	Radio 1
802.11n (HT20)	1TX	Radio 3
	2TX	Radio 1
5GHz Band		
802.11a	1TX	Radio 3
	2TX	Radio 2
802.11n (HT20)	1TX	Radio 3
	2TX	Radio 2
802.11n (HT40)	1TX	Radio 3
	2TX	Radio 2
802.11ac (80MHz)	2TX	Radio 2

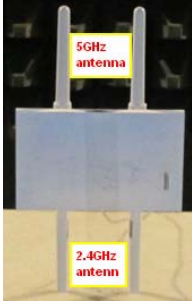
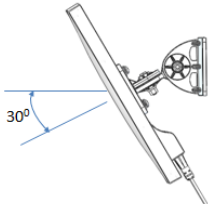
* The modulation and bandwidth are similar for 802.11n mode for 20MHz / 40MHz and 802.11ac mode for 20MHz / 40MHz, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

- The EUT with follow antennas gain is listed as table below.

No.	Type	Connector	Gain(dBi)									Remark
			2400 MHz	2450 MHz	2500 MHz	4900 MHz	5150 MHz	5350 MHz	5475 MHz	5725 MHz	5875 MHz	
1	Dipole	N-Type	4			-						Radio 1 (WLAN)
			-			7						Radio 2 (WLAN)
	Patch	N-Type	8.1			-						Radio 1 (WLAN)
			-			7.1						Radio 2 (WLAN)
	Sector	N-Type	11			-						Radio 1 (WLAN)
			-			13						Radio 2 (WLAN)
2	PIFA	NA	5.4	5.7	4.7	6.0	6.1	5.7	6.2	5.8	6.5	Radio 3 (WLAN)
3	PIFA	NA	4.2			-						Radio 4 (BT LE)

* Antenna 1 of the EUT can choose dipole, patch or sector antenna.

3. The EUT will install at outdoor area, the highest antenna gain from the horizon above 30 degrees as below, for more detail information please refer to antenna specification and user manual

Antenna	Antenna gain	Antenna install degree
Dipole	-0.7 dBi	
Patch	1.8 dBi	
Sector	13 dBi	No limitations install degree, chosen the highest gain from the antenna specification.
PIFA	6.5 dBi	No limitations install degree, chosen the highest gain from the antenna specification.

4. The EUT consumes power from the following POE. (for supply unit only)

POE	
BRAND	CISCO
MODEL	PD-9001GR/AT/AC
INPUT POWER	100-240Vac~0.67A, 50/60Hz
OUTPUT POWER	55Vdc, 0.6A

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY
42	5210MHz

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY
155	5775MHz

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.

RADIATED EMISSION TEST (ABOVE 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	REMARK
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			36 to 48	36, 40, 48	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			36 to 48	36, 40, 48	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT40)		38 to 46	38, 46	OFDM	BPSK	30.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			38 to 46	38, 46	OFDM	BPSK	15.0	1TX (Radio 3) (PIFA Antenna)
	802.11ac (VHT80)		42	42	OFDM	BPSK	65.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			149 to 165	149, 157, 165	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			149 to 165	149, 157, 165	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT40)		151 to 159	151, 159	OFDM	BPSK	30.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			151 to 159	151, 159	OFDM	BPSK	15.0	1TX (Radio 3) (PIFA Antenna)
	802.11ac (VHT80)		155	155	OFDM	BPSK	65.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)

RADIATED EMISSION TEST (BELOW 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	REMARK
	802.11n (HT20)	5180-5240	36 to 48	40	OFDM	BPSK	7.2	2TX (Radio 2) (Dipole Antenna)
	802.11a		36 to 48	40	OFDM	BPSK	6.0	2TX (Radio 2) (Patch Antenna)
	802.11a		36 to 48	36	OFDM	BPSK	6.0	2TX (Radio 2) (Sector Antenna)
	802.11a		36 to 48	36	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11a	5745-5825	149 to 165	165	OFDM	BPSK	6.0	2TX (Radio 2) (Dipole Antenna)
	802.11n (HT20)		149 to 165	157	OFDM	BPSK	7.2	2TX (Radio 2) (Patch & Sector Antenna)
	802.11a		149 to 165	157	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)

POWER LINE CONDUCTED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	REMARK
	802.11n (HT20)	5180-5240	36 to 48	40	OFDM	BPSK	7.2	2TX (Radio 2) (Dipole Antenna)
	802.11a		36 to 48	40	OFDM	BPSK	6.0	2TX (Radio 2) (Patch Antenna)
	802.11a		36 to 48	36	OFDM	BPSK	6.0	2TX (Radio 2) (Sector Antenna)
	802.11a		36 to 48	36	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11a	5745-5825	149 to 165	165	OFDM	BPSK	6.0	2TX (Radio 2) (Dipole Antenna)
	802.11n (HT20)		149 to 165	157	OFDM	BPSK	7.2	2TX (Radio 2) (Patch & Sector Antenna)
	802.11a		149 to 165	157	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	REMARK
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			36 to 48	36, 40, 48	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			36 to 48	36, 40, 48	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT40)		38 to 46	38, 46	OFDM	BPSK	30.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
			38 to 46	38, 46	OFDM	BPSK	15.0	1TX (Radio 3) (PIFA Antenna)
	802.11ac (VHT80)		42	42	OFDM	BPSK	65.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
	802.11a		5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0
		149 to 165		149, 157, 165	OFDM	BPSK	6.0	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT20)	149 to 165		149, 157, 165	OFDM	BPSK	14.4	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
		149 to 165		149, 157, 165	OFDM	BPSK	7.2	1TX (Radio 3) (PIFA Antenna)
	802.11n (HT40)	151 to 159		151, 159	OFDM	BPSK	30.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)
		151 to 159		151, 159	OFDM	BPSK	15.0	1TX (Radio 3) (PIFA Antenna)
	802.11ac (VHT80)	155		155	OFDM	BPSK	65.0	2TX (Radio 2) (Dipole, Patch & Sector Antenna)

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE>1G	22deg. C, 72%RH 22deg. C, 70%RH	55Vdc	Nick Hsu Jones Chang
RE<1G	22deg. C, 65%RH	55Vdc	Jones Chang
PLC	22deg. C, 72%RH	55Vdc	Nick Hsu
APCM	25deg. C, 60%RH	55Vdc	Nick Hsu

3.3 DUTY CYCLE OF TEST SIGNAL

Radio 2: Dipole antenna (For U-NII-1 band)

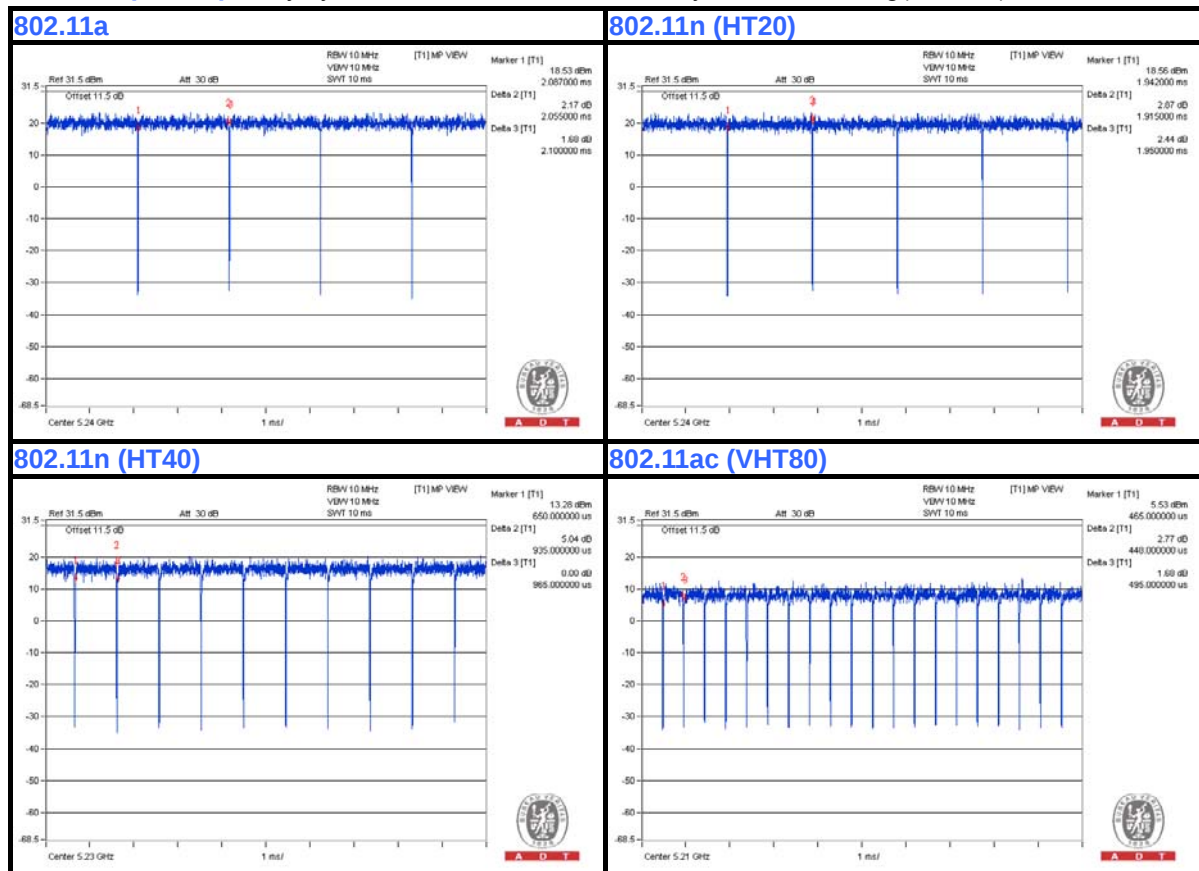
Duty cycle is < 98%, duty factor shall be considered.

802.11a: Duty cycle = $2.055/2.1 = 0.979$, Duty factor = $10 * \log(1/0.979) = 0.09$

802.11n (HT20): Duty cycle = $1.915/1.95 = 0.982 > 98\%$, duty factor is not required.

802.11n (HT40): Duty cycle = $0.935/0.965 = 0.969$, Duty factor = $10 * \log(1/0.969) = 0.14$

802.11ac (VHT80): Duty cycle = $0.448/0.495 = 0.905$, Duty factor = $10 * \log(1/0.905) = 0.43$



Radio 2: Dipole antenna (For U-NII-3 band)

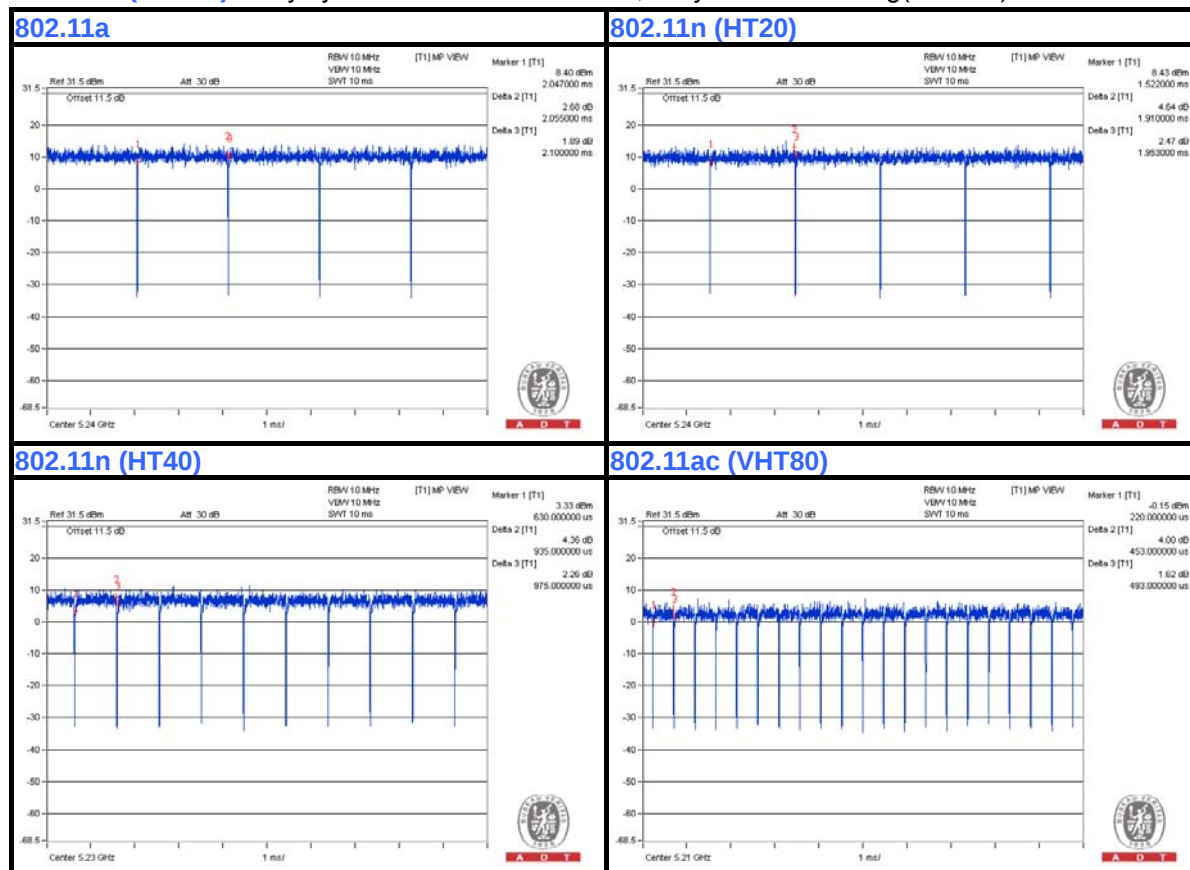
Duty cycle is < 98%, duty factor shall be considered.

802.11a: Duty cycle = $2.055/2.1 = 0.979$, Duty factor = $10 * \log(1/0.979) = 0.09$

802.11n (HT20): Duty cycle = $1.91/1.953 = 0.978$, Duty factor = $10 * \log(1/0.978) = 0.10$

802.11n (HT40): Duty cycle = $0.935/0.975 = 0.959$, Duty factor = $10 * \log(1/0.959) = 0.18$

802.11ac (VHT80): Duty cycle = $0.453/0.493 = 0.919$, Duty factor = $10 * \log(1/0.919) = 0.37$



Radio 2: Patch antenna (For U-NII-1 band)

Duty cycle is > 98%, duty factor is not required.

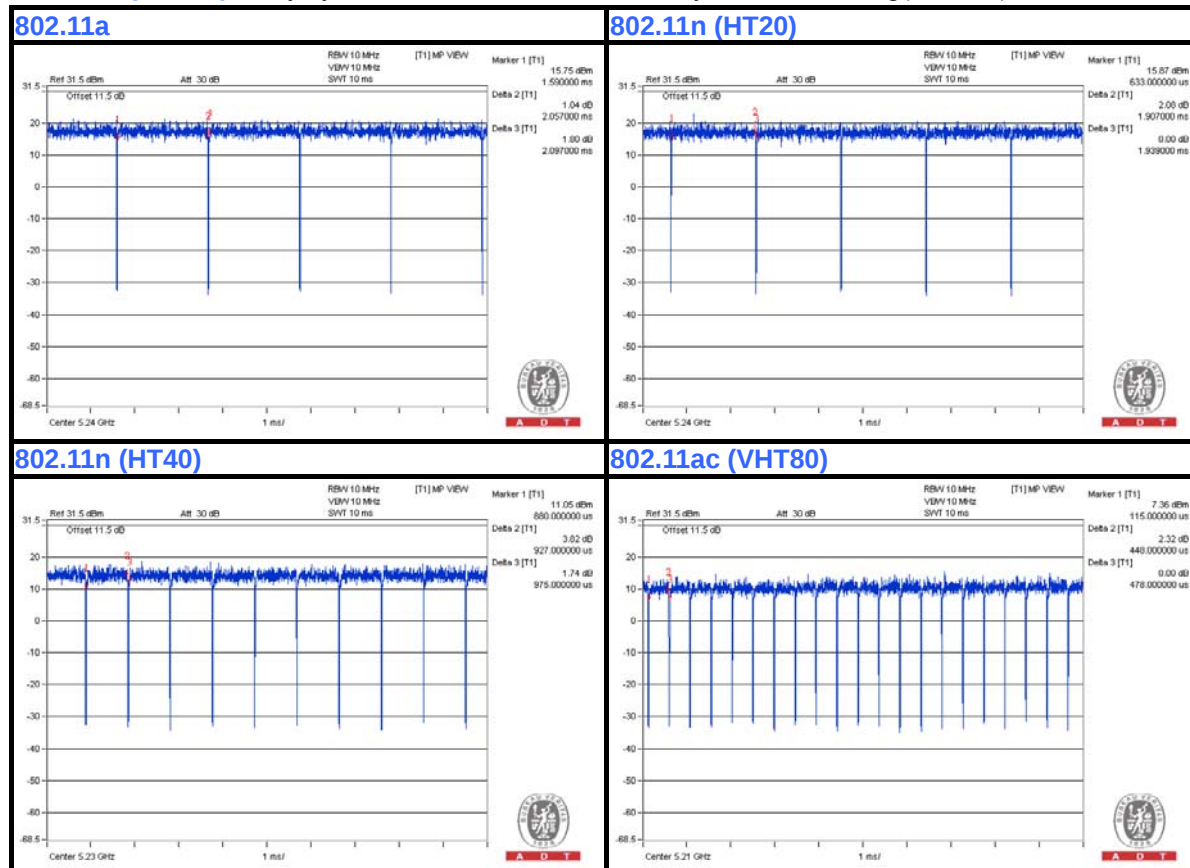
802.11a: Duty cycle = $2.057/2.097 = 0.981 > 98\%$, duty factor is not required.

802.11n (HT20): Duty cycle = $1.907/1.939 = 0.983 > 98\%$, duty factor is not required.

Duty cycle is < 98%, duty factor shall be considered.

802.11n (HT40): Duty cycle = $0.927/0.975 = 0.951$, Duty factor = $10 * \log(1/0.951) = 0.22$

802.11ac (VHT80): Duty cycle = $0.448/0.478 = 0.937$, Duty factor = $10 * \log(1/0.937) = 0.28$



Radio 2: Patch antenna (For U-NII-3 band)

Duty cycle is > 98%, duty factor is not required.

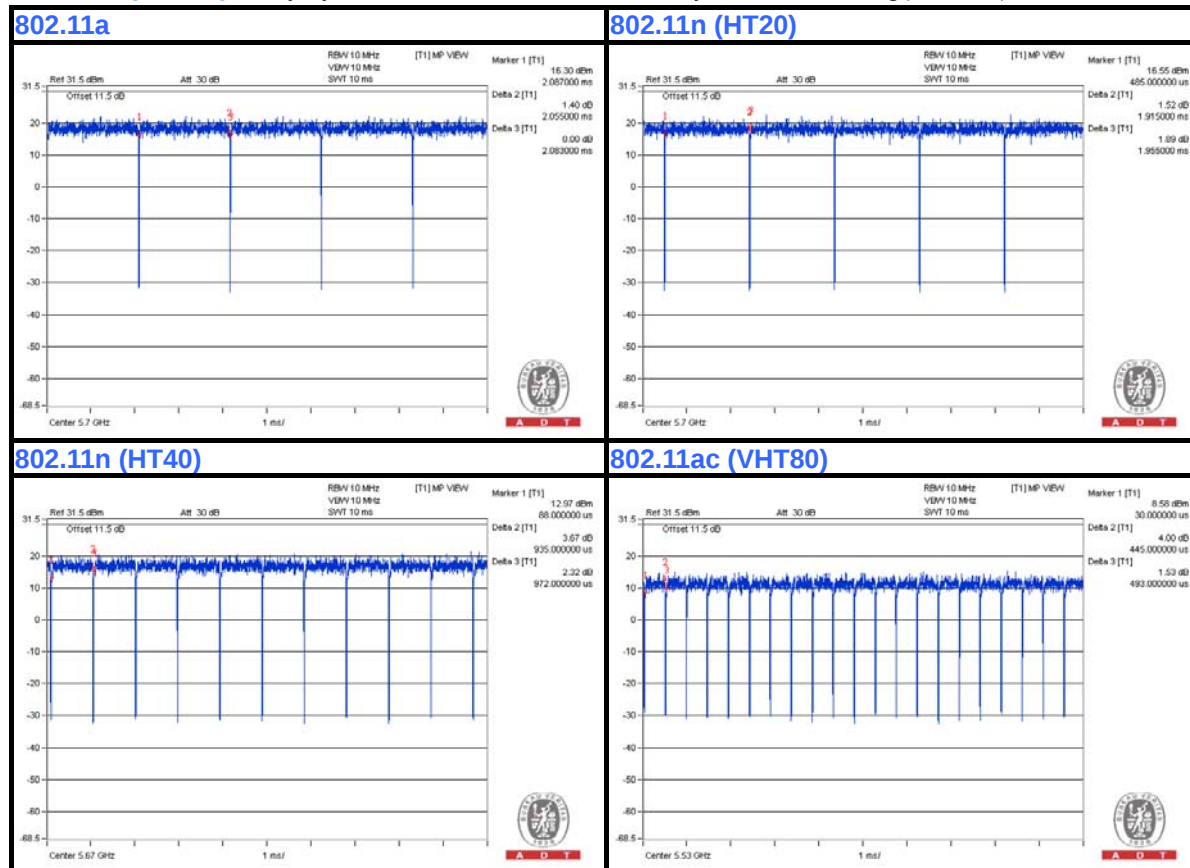
802.11a: Duty cycle = $2.055/2.083 = 0.987 > 98\%$, duty factor is not required.

802.11n (HT20): Duty cycle = $1.915/1.955 = 0.98 > 98\%$, duty factor is not required.

Duty cycle is < 98%, duty factor shall be considered.

802.11n (HT40): Duty cycle = $0.935/0.972 = 0.962$, Duty factor = $10 * \log(1/0.962) = 0.17$

802.11ac (VHT80): Duty cycle = $0.445/0.493 = 0.903$, Duty factor = $10 * \log(1/0.903) = 0.44$



Radio 2: Sector antenna (For U-NII-1 band)

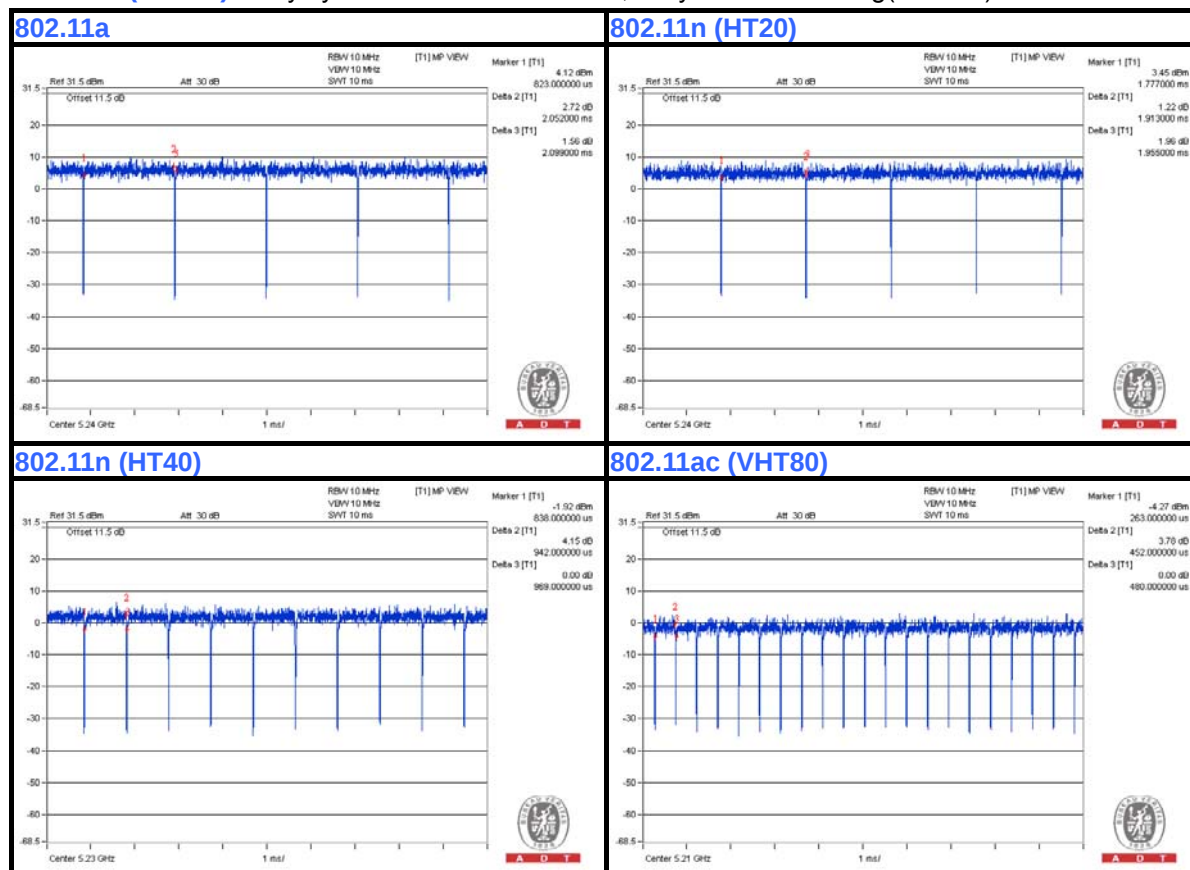
Duty cycle is < 98%, duty factor shall be considered.

802.11a: Duty cycle = $2.052/2.099 = 0.978$, Duty factor = $10 * \log(1/0.978) = 0.10$

802.11n (HT20): Duty cycle = $1.913/1.955 = 0.979$, Duty factor = $10 * \log(1/0.979) = 0.09$

802.11n (HT40): Duty cycle = $0.942/0.969 = 0.972$, Duty factor = $10 * \log(1/0.972) = 0.12$

802.11ac (VHT80): Duty cycle = $0.452/0.48 = 0.942$, Duty factor = $10 * \log(1/0.942) = 0.26$



Radio 2: Sector antenna (For U-NII-3 band)

Duty cycle is > 98%, duty factor is not required.

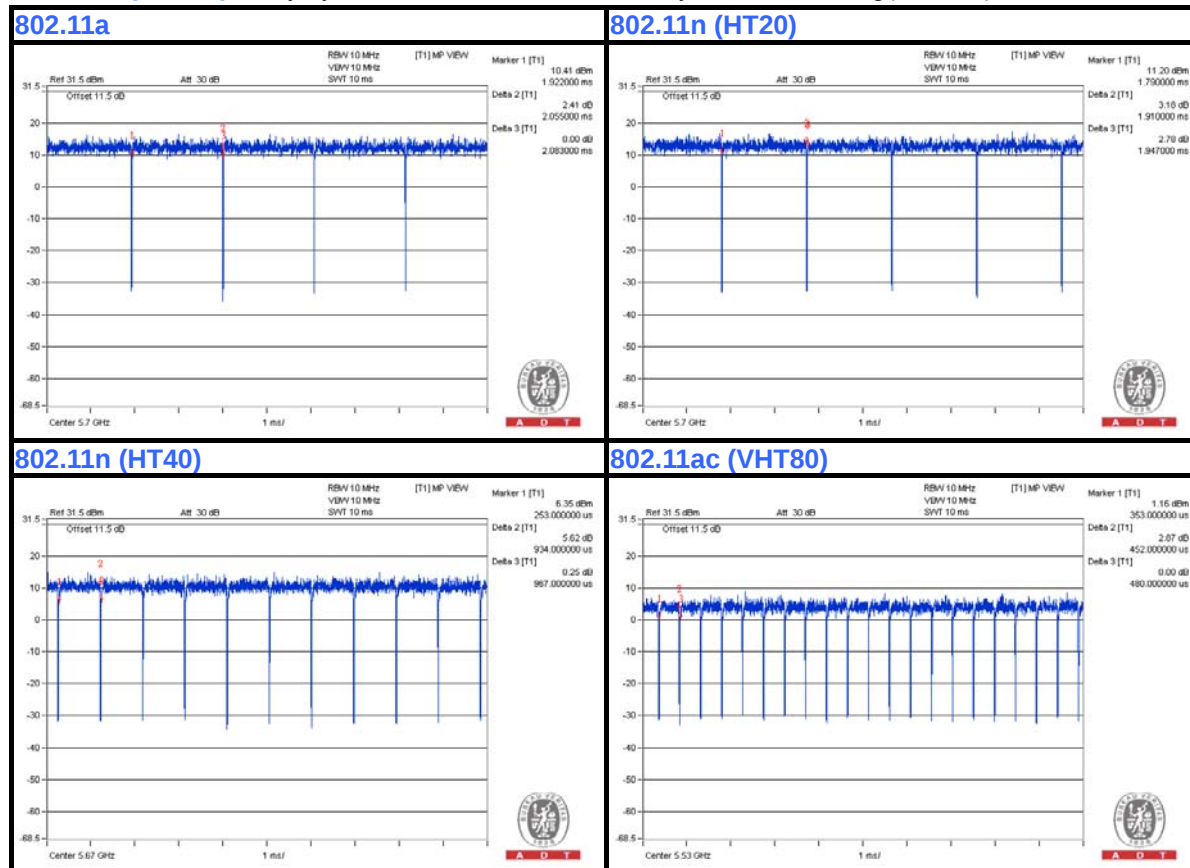
802.11a: Duty cycle = $2.055/2.083 = 0.987 > 98\%$, duty factor is not required.

802.11n (HT20): Duty cycle = $1.91/1.947 = 0.981 > 98\%$, duty factor is not required.

Duty cycle is < 98%, duty factor shall be considered.

802.11n (HT40): Duty cycle = $0.934/0.967 = 0.966$, Duty factor = $10 * \log(1/0.966) = 0.15$

802.11ac (VHT80): Duty cycle = $0.452/0.48 = 0.942$, Duty factor = $10 * \log(1/0.942) = 0.26$



Radio 3: PIFA antenna (For U-NII-1 & U-NII-3 band)

802.11a: Duty cycle of test signal is > 98 %, duty factor is not required.

802.11a: Duty cycle = $2.065/2.105 = 0.981$

802.11n (HT20), 802.11n (HT40): Duty cycle is < 98%, duty factor shall be considered.

802.11n (HT20): Duty cycle = $1.903/1.948 = 0.977$, Duty factor = $10 * \log(1/0.977) = 0.10$

802.11n (HT40): Duty cycle = $0.92/0.95 = 0.968$, Duty factor = $10 * \log(1/0.968) = 0.14$



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

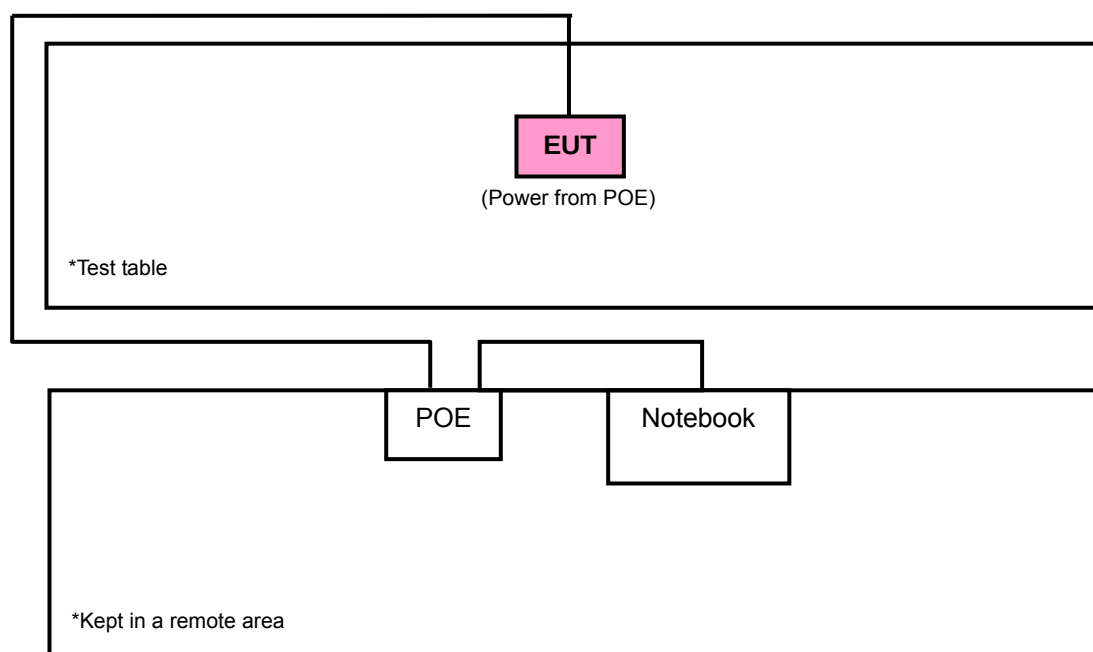
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	D531	CN-0XM006-48643 -81U-2973	QDS-BRCM1020
2	POE	CISCO	PD-9001GR/AT/AC	NA	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	1.8m LAN cable
2	10m LAN cable

NOTE:

1. All power cords of the above support units are non-shielded (1.8 m).
2. Item 1 acted as a communication partner to transfer data.
3. Item 2 was provided by the manufacturer.

3.4.1 CONFIGURATION OF SYSTEM UNDER TEST



3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specification of the EUT declared by the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v01

662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2009

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedures New Rules v01	FIELD STRENGTH AT 3m	
	PK: 74 (dBuV/m)	AV: 54 (dBuV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBuV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	PK: -27 (dBm/MHz) ^{*1} PK: -17 (dBm/MHz) ^{*2}	PK: 68.2 (dBuV/m) ^{*1} PK: 78.2 (dBuV/m) ^{*2}

NOTE: ^{*1} beyond 10MHz of the band edge ^{*2} within 10 MHz of band edge

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	Jan. 02, 2014	Jan. 01, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Mar. 03, 2014	Mar. 02, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Feb. 26, 2014	Feb. 25, 2015
HORN Antenna SCHWARZBECK	9120D	209	Aug. 25, 2014	Aug. 24, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Feb. 17, 2014	Feb. 16, 2015
Preamplifier Agilent	8447D	2944A10738	Oct.18, 2014	Oct. 17, 2015
Preamplifier Agilent	8449B	3008A01964	Aug. 22, 2014	Aug. 21, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	214378/4	Aug. 22, 2014	Aug. 21, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 106	12738/6 +309224/4	Aug. 22, 2014	Aug. 21, 2015
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 18, 2014	Oct. 17, 2015
High Speed Peak Power Meter	ML2495A	0824011	Jul. 26, 2014	Jul. 25, 2015
Power Sensor	MA2411B	0738171	Jul. 26, 2014	Jul. 25, 2015
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 9, 2014	Jun. 08, 2015

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 988962.
5. The IC Site Registration No. is IC 7450F-3.

4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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 is a broadband antenna, and its 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

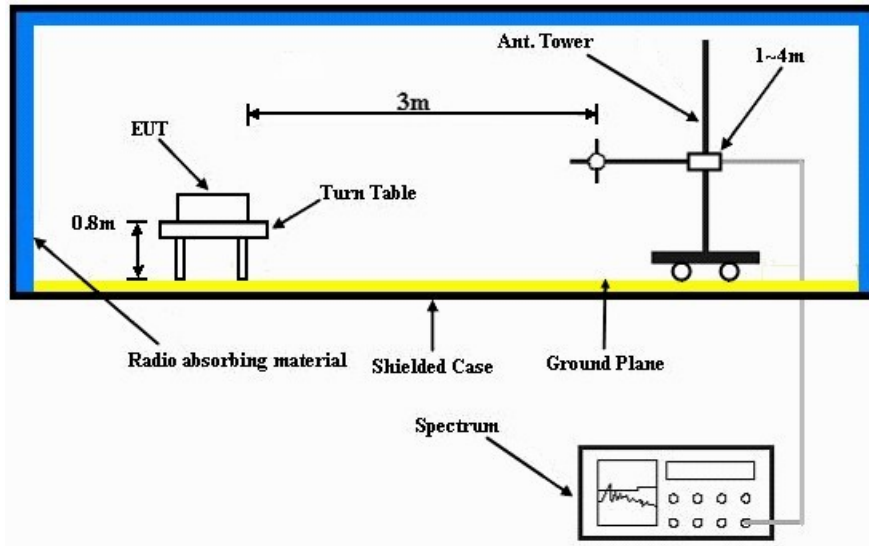
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 DEVIATION FROM TEST STANDARD

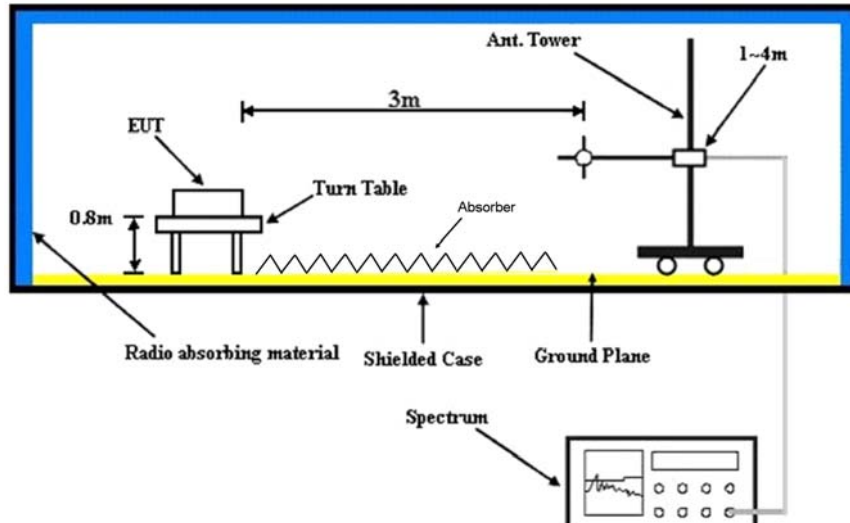
No deviation.

4.1.6 TEST SETUP

Frequency range 30MHz~1GHz



Frequency range above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.7 EUT OPERATING CONDITION

- a. Placed the EUT on the testing table.
- b. Prepared a notebook to act as communication partner and placed it outside of testing area.
- c. The communication partner connected with EUT via a RJ45 cable and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- d. The communication partner sent data to EUT by command "PING".

4.1.8 TEST RESULTS

ABOVE 1GHz DATA :

Radio 2: Dipole antenna

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.6 PK	74.0	-16.4	1.19 H	302	51.50	6.10
2	5000.00	45.2 AV	54.0	-8.8	1.19 H	302	39.10	6.10
3	5150.00	56.7 PK	74.0	-17.3	1.14 H	103	50.30	6.40
4	5150.00	44.0 AV	54.0	-10.0	1.14 H	103	37.60	6.40
5	*5180.00	104.0 PK			1.00 H	327	64.10	39.90
6	*5180.00	94.1 AV			1.00 H	327	54.20	39.90
7	#10360.00	60.1 PK	74.0	-13.9	1.17 H	121	41.40	18.70
8	#10360.00	47.0 AV	54.0	-7.0	1.17 H	121	28.30	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	61.4 PK	74.0	-12.6	1.00 V	21	55.30	6.10
2	5000.00	53.0 AV	54.0	-1.0	1.00 V	21	46.90	6.10
3	5150.00	65.1 PK	74.0	-8.9	1.08 V	324	58.70	6.40
4	5150.00	48.8 AV	54.0	-5.2	1.08 V	324	42.40	6.40
5	*5180.00	116.2 PK			1.00 V	284	76.30	39.90
6	*5180.00	106.6 AV			1.00 V	284	66.70	39.90
7	#10360.00	60.5 PK	74.0	-13.5	1.00 V	62	41.80	18.70
8	#10360.00	46.9 AV	54.0	-7.1	1.00 V	62	28.20	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.5 PK	74.0	-16.5	1.06 H	4	51.40	6.10
2	5000.00	45.0 AV	54.0	-9.0	1.06 H	4	38.90	6.10
3	*5200.00	104.5 PK			1.32 H	213	64.50	40.00
4	*5200.00	95.2 AV			1.32 H	213	55.20	40.00
5	5360.00	58.8 PK	74.0	-15.2	1.00 H	183	52.40	6.40
6	5360.00	45.7 AV	54.0	-8.3	1.00 H	183	39.30	6.40
7	#10400.00	60.6 PK	74.0	-13.4	1.20 H	261	41.60	19.00
8	#10400.00	47.3 AV	54.0	-6.7	1.20 H	261	28.30	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	60.9 PK	74.0	-13.1	1.00 V	25	54.80	6.10
2	5000.00	52.9 AV	54.0	-1.1	1.00 V	25	46.80	6.10
3	*5200.00	116.4 PK			1.34 V	283	76.40	40.00
4	*5200.00	107.0 AV			1.34 V	283	67.00	40.00
5	5360.00	60.4 PK	74.0	-13.6	1.32 V	265	54.00	6.40
6	5360.00	50.1 AV	54.0	-3.9	1.32 V	265	43.70	6.40
7	#10400.00	60.9 PK	74.0	-13.1	1.00 V	101	41.90	19.00
8	#10400.00	47.7 AV	54.0	-6.3	1.00 V	101	28.70	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.4 PK	74.0	-16.6	1.17 H	304	51.30	6.10
2	5000.00	44.8 AV	54.0	-9.2	1.17 H	304	38.70	6.10
3	*5240.00	106.0 PK			1.01 H	210	66.00	40.00
4	*5240.00	96.0 AV			1.01 H	210	56.00	40.00
5	5400.00	58.1 PK	74.0	-15.9	1.00 H	194	51.50	6.60
6	5400.00	46.1 AV	54.0	-7.9	1.00 H	194	39.50	6.60
7	#10480.00	59.9 PK	74.0	-14.1	1.22 H	118	40.70	19.20
8	#10480.00	46.8 AV	54.0	-7.2	1.22 H	118	27.60	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	60.2 PK	74.0	-13.8	1.00 V	22	54.10	6.10
2	5000.00	52.9 AV	54.0	-1.1	1.00 V	22	46.80	6.10
3	*5240.00	116.3 PK			1.21 V	282	76.30	40.00
4	*5240.00	106.9 AV			1.21 V	282	66.90	40.00
5	5400.00	61.4 PK	74.0	-12.6	1.00 V	312	54.80	6.60
6	5400.00	51.0 AV	54.0	-3.0	1.00 V	312	44.40	6.60
7	#10480.00	59.9 PK	74.0	-14.1	1.00 V	172	40.70	19.20
8	#10480.00	47.0 AV	54.0	-7.0	1.00 V	172	27.80	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.2 PK	74.0	-16.8	1.24 H	298	51.10	6.10
2	5000.00	45.5 AV	54.0	-8.5	1.24 H	298	39.40	6.10
3	5150.00	56.7 PK	74.0	-17.3	1.21 H	205	50.30	6.40
4	5150.00	44.5 AV	54.0	-9.5	1.21 H	205	38.10	6.40
5	*5180.00	104.8 PK			1.00 H	213	64.90	39.90
6	*5180.00	93.7 AV			1.00 H	213	53.80	39.90
7	#10360.00	59.9 PK	74.0	-14.1	1.27 H	141	41.20	18.70
8	#10360.00	46.9 AV	54.0	-7.1	1.27 H	141	28.20	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	60.6 PK	74.0	-13.4	1.00 V	22	54.50	6.10
2	5000.00	52.8 AV	54.0	-1.2	1.00 V	22	46.70	6.10
3	5150.00	63.6 PK	74.0	-10.4	1.00 V	170	57.20	6.40
4	5150.00	48.2 AV	54.0	-5.8	1.00 V	170	41.80	6.40
5	*5180.00	116.4 PK			1.00 V	179	76.50	39.90
6	*5180.00	106.0 AV			1.00 V	179	66.10	39.90
7	#10360.00	59.9 PK	74.0	-14.1	1.00 V	102	41.20	18.70
8	#10360.00	46.9 AV	54.0	-7.1	1.00 V	102	28.20	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.2 PK	74.0	-16.8	1.20 H	298	51.10	6.10
2	5000.00	45.6 AV	54.0	-8.4	1.20 H	298	39.50	6.10
3	*5200.00	105.1 PK			1.00 H	166	65.10	40.00
4	*5200.00	94.1 AV			1.00 H	166	54.10	40.00
5	5350.00	60.8 PK	74.0	-13.2	1.01 H	192	54.40	6.40
6	5350.00	47.8 AV	54.0	-6.2	1.01 H	192	41.40	6.40
7	#10400.00	63.0 PK	74.0	-11.0	1.16 H	216	44.00	19.00
8	#10400.00	49.2 AV	54.0	-4.8	1.16 H	216	30.20	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.4 PK	74.0	-11.6	1.00 V	22	56.30	6.10
2	5000.00	53.0 AV	54.0	-1.0	1.00 V	22	46.90	6.10
3	*5200.00	116.6 PK			1.18 V	322	76.60	40.00
4	*5200.00	105.7 AV			1.18 V	322	65.70	40.00
5	5350.00	62.9 PK	74.0	-11.1	1.00 V	344	56.50	6.40
6	5350.00	51.8 AV	54.0	-2.2	1.00 V	344	45.40	6.40
7	#10400.00	62.2 PK	74.0	-11.8	1.00 V	59	43.20	19.00
8	#10400.00	49.2 AV	54.0	-4.8	1.00 V	59	30.20	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.4 PK	74.0	-16.6	1.22 H	302	51.30	6.10
2	5000.00	45.7 AV	54.0	-8.3	1.22 H	302	39.60	6.10
3	*5240.00	105.3 PK			1.12 H	166	65.30	40.00
4	*5240.00	94.6 AV			1.12 H	166	54.60	40.00
5	5400.00	60.4 PK	74.0	-13.6	1.00 H	189	53.80	6.60
6	5400.00	48.4 AV	54.0	-5.6	1.00 H	189	41.80	6.60
7	#10480.00	62.0 PK	74.0	-12.0	1.14 H	77	42.80	19.20
8	#10480.00	49.0 AV	54.0	-5.0	1.14 H	77	29.80	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	60.8 PK	74.0	-13.2	1.00 V	23	54.70	6.10
2	5000.00	52.9 AV	54.0	-1.1	1.00 V	23	46.80	6.10
3	*5240.00	116.8 PK			1.00 V	286	76.80	40.00
4	*5240.00	106.6 AV			1.00 V	286	66.60	40.00
5	5400.00	63.7 PK	74.0	-10.3	1.02 V	312	57.10	6.60
6	5400.00	52.8 AV	54.0	-1.2	1.02 V	312	46.20	6.60
7	#10480.00	61.6 PK	74.0	-12.4	1.02 V	221	42.40	19.20
8	#10480.00	48.6 AV	54.0	-5.4	1.02 V	221	29.40	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	60.2 PK	74.0	-13.8	1.26 H	302	54.10	6.10
2	5000.00	46.5 AV	54.0	-7.5	1.26 H	302	40.40	6.10
3	5150.00	58.4 PK	74.0	-15.6	1.00 H	290	52.00	6.40
4	5150.00	46.7 AV	54.0	-7.3	1.00 H	290	40.30	6.40
5	*5190.00	103.0 PK			1.01 H	166	63.10	39.90
6	*5190.00	92.9 AV			1.01 H	166	53.00	39.90
7	#10380.00	62.5 PK	74.0	-11.5	1.15 H	91	43.70	18.80
8	#10380.00	49.4 AV	54.0	-4.6	1.15 H	91	30.60	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.4 PK	74.0	-11.6	1.00 V	21	56.30	6.10
2	5000.00	53.0 AV	54.0	-1.0	1.00 V	21	46.90	6.10
3	5150.00	67.7 PK	74.0	-6.3	1.00 V	176	61.30	6.40
4	5150.00	52.7 AV	54.0	-1.3	1.00 V	176	46.30	6.40
5	*5190.00	111.0 PK			1.00 V	282	71.10	39.90
6	*5190.00	100.9 AV			1.00 V	282	61.00	39.90
7	#10380.00	62.8 PK	74.0	-11.2	1.00 V	133	44.00	18.80
8	#10380.00	49.5 AV	54.0	-4.5	1.00 V	133	30.70	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	60.3 PK	74.0	-13.7	1.22 H	297	54.20	6.10
2	5000.00	46.7 AV	54.0	-7.3	1.22 H	297	40.60	6.10
3	*5230.00	105.6 PK			1.00 H	166	65.60	40.00
4	*5230.00	95.1 AV			1.00 H	166	55.10	40.00
5	5400.00	60.1 PK	74.0	-13.9	1.00 H	183	53.50	6.60
6	5400.00	47.8 AV	54.0	-6.2	1.00 H	183	41.20	6.60
7	#10460.00	62.3 PK	74.0	-11.7	1.14 H	136	43.20	19.10
8	#10460.00	48.8 AV	54.0	-5.2	1.14 H	136	29.70	19.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.3 PK	74.0	-11.7	1.00 V	24	56.20	6.10
2	5000.00	52.9 AV	54.0	-1.1	1.00 V	24	46.80	6.10
3	*5230.00	113.7 PK			1.00 V	278	73.70	40.00
4	*5230.00	103.8 AV			1.00 V	278	63.80	40.00
5	5400.00	62.2 PK	74.0	-11.8	1.01 V	310	55.60	6.60
6	5400.00	50.8 AV	54.0	-3.2	1.01 V	310	44.20	6.60
7	#10460.00	62.0 PK	74.0	-12.0	1.03 V	211	42.90	19.10
8	#10460.00	48.8 AV	54.0	-5.2	1.03 V	211	29.70	19.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	59.4 PK	74.0	-14.6	1.25 H	299	53.30	6.10
2	5000.00	46.8 AV	54.0	-7.2	1.25 H	299	40.70	6.10
3	5150.00	60.4 PK	74.0	-13.6	1.00 H	328	54.00	6.40
4	5150.00	46.9 AV	54.0	-7.1	1.00 H	328	40.50	6.40
5	*5210.00	97.7 PK			1.03 H	191	57.70	40.00
6	*5210.00	87.4 AV			1.03 H	191	47.40	40.00
7	#5788.00	49.1 PK	68.2	-19.1	1.38 H	169	42.00	7.10
8	#10420.00	62.5 PK	74.0	-11.5	1.14 H	73	43.60	18.90
9	#10420.00	49.3 AV	54.0	-4.7	1.14 H	73	30.40	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	61.7 PK	74.0	-12.3	1.00 V	20	55.60	6.10
2	5000.00	53.0 AV	54.0	-1.0	1.00 V	20	46.90	6.10
3	5150.00	69.1 PK	74.0	-4.9	1.00 V	177	62.70	6.40
4	5150.00	52.4 AV	54.0	-1.6	1.00 V	177	46.00	6.40
5	*5210.00	108.0 PK			1.00 V	283	68.00	40.00
6	*5210.00	96.3 AV			1.00 V	283	56.30	40.00
7	#5788.00	64.6 PK	68.2	-3.6	1.06 V	318	57.50	7.10
8	#10420.00	62.0 PK	74.0	-12.0	1.00 V	221	43.10	18.90
9	#10420.00	49.2 AV	54.0	-4.8	1.00 V	221	30.30	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.7 PK	74.0	-16.3	1.19 H	25	51.60	6.10
2	5000.00	47.1 AV	54.0	-6.9	1.19 H	25	41.00	6.10
3	#5714.00	62.7 PK	74.0	-11.3	1.00 H	205	55.70	7.00
4	#5714.00	48.6 AV	54.0	-5.4	1.00 H	205	41.60	7.00
5	#5722.00	72.7 PK	78.2	-5.5	1.00 H	208	65.70	7.00
6	#5725.00	73.0 PK	78.2	-5.2	1.00 H	208	65.90	7.10
7	*5745.00	106.3 PK			1.56 H	130	65.70	40.60
8	*5745.00	97.4 AV			1.56 H	130	56.80	40.60
9	11490.00	66.3 PK	74.0	-7.7	1.00 H	9	47.60	18.70
10	11490.00	52.7 AV	54.0	-1.3	1.00 H	9	34.00	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.6 PK	74.0	-11.4	1.00 V	297	56.50	6.10
2	5000.00	52.6 AV	54.0	-1.4	1.00 V	297	46.50	6.10
3	#5714.00	70.8 PK	74.0	-3.2	1.29 V	159	63.80	7.00
4	#5714.00	52.8 AV	54.0	-1.2	1.29 V	159	45.80	7.00
5	#5722.00	77.1 PK	78.2	-1.1	1.20 V	120	70.10	7.00
6	#5725.00	75.8 PK	78.2	-2.4	1.20 V	120	68.70	7.10
7	*5745.00	118.7 PK			1.21 V	101	78.10	40.60
8	*5745.00	109.1 AV			1.21 V	101	68.50	40.60
9	11490.00	65.7 PK	74.0	-8.3	1.59 V	331	47.00	18.70
10	11490.00	52.3 AV	54.0	-1.7	1.59 V	331	33.60	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.8 PK	74.0	-16.2	1.14 H	14	51.70	6.10
2	5000.00	47.2 AV	54.0	-6.8	1.14 H	14	41.10	6.10
3	*5785.00	107.2 PK			1.00 H	212	66.50	40.70
4	*5785.00	98.0 AV			1.00 H	212	57.30	40.70
5	11570.00	67.4 PK	74.0	-6.6	1.77 H	283	48.60	18.80
6	11570.00	53.0 AV	54.0	-1.0	1.77 H	283	34.20	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.7 PK	74.0	-11.3	1.00 V	297	56.60	6.10
2	5000.00	52.6 AV	54.0	-1.4	1.00 V	297	46.50	6.10
3	*5785.00	118.6 PK			1.23 V	161	77.90	40.70
4	*5785.00	109.0 AV			1.23 V	161	68.30	40.70
5	11570.00	67.5 PK	74.0	-6.5	1.11 V	7	48.70	18.80
6	11570.00	52.9 AV	54.0	-1.1	1.11 V	7	34.10	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	58.0 PK	74.0	-16.0	1.15 H	15	51.90	6.10
2	5000.00	47.3 AV	54.0	-6.7	1.15 H	15	41.20	6.10
3	*5825.00	107.2 PK			1.52 H	209	66.50	40.70
4	*5825.00	97.0 AV			1.52 H	209	56.30	40.70
5	#5850.00	69.2 PK	78.2	-9.0	1.13 H	206	62.20	7.00
6	#5853.00	70.2 PK	78.2	-8.0	1.13 H	209	63.10	7.10
7	#5861.00	60.6 PK	74.0	-13.4	1.13 H	200	53.50	7.10
8	#5861.00	47.7 AV	54.0	-6.3	1.13 H	200	40.60	7.10
9	11650.00	66.0 PK	74.0	-8.0	1.81 H	280	46.80	19.20
10	11650.00	52.8 AV	54.0	-1.2	1.81 H	280	33.60	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.9 PK	74.0	-11.1	1.00 V	297	56.80	6.10
2	5000.00	52.7 AV	54.0	-1.3	1.00 V	297	46.60	6.10
3	*5825.00	119.5 PK			1.14 V	359	78.80	40.70
4	*5825.00	109.9 AV			1.14 V	359	69.20	40.70
5	#5850.00	73.1 PK	78.2	-5.1	1.03 V	19	66.10	7.00
6	#5853.00	73.5 PK	78.2	-4.7	1.03 V	19	66.40	7.10
7	#5861.00	66.9 PK	74.0	-7.1	1.03 V	359	59.80	7.10
8	#5861.00	51.2 AV	54.0	-2.8	1.03 V	359	44.10	7.10
9	11650.00	63.9 PK	74.0	-10.1	1.99 V	358	44.70	19.20
10	11650.00	51.5 AV	54.0	-2.5	1.99 V	358	32.30	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	58.2 PK	74.0	-15.8	1.15 H	19	52.10	6.10
2	5000.00	47.5 AV	54.0	-6.5	1.15 H	19	41.40	6.10
3	#5714.00	58.6 PK	74.0	-15.4	1.01 H	212	51.60	7.00
4	#5714.00	47.4 AV	54.0	-6.6	1.01 H	212	40.40	7.00
5	#5722.00	68.1 PK	78.2	-10.1	1.03 H	214	61.10	7.00
6	#5725.00	67.6 PK	78.2	-10.6	1.03 H	214	60.50	7.10
7	*5745.00	104.9 PK			1.32 H	132	64.30	40.60
8	*5745.00	94.1 AV			1.32 H	132	53.50	40.60
9	11490.00	65.7 PK	74.0	-8.3	1.79 H	322	47.00	18.70
10	11490.00	51.4 AV	54.0	-2.6	1.79 H	322	32.70	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.6 PK	74.0	-11.4	1.12 V	297	56.50	6.10
2	5000.00	52.8 AV	54.0	-1.2	1.12 V	297	46.70	6.10
3	#5714.00	70.5 PK	74.0	-3.5	1.00 V	152	63.50	7.00
4	#5714.00	53.0 AV	54.0	-1.0	1.00 V	152	46.00	7.00
5	#5722.00	74.5 PK	78.2	-3.7	1.01 V	155	67.50	7.00
6	#5725.00	74.2 PK	78.2	-4.0	1.01 V	155	67.10	7.10
7	*5745.00	117.3 PK			1.05 V	31	76.70	40.60
8	*5745.00	106.5 AV			1.05 V	31	65.90	40.60
9	11490.00	63.6 PK	74.0	-10.4	1.21 V	359	44.90	18.70
10	11490.00	49.6 AV	54.0	-4.4	1.21 V	359	30.90	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.9 PK	74.0	-16.1	1.16 H	18	51.80	6.10
2	5000.00	47.3 AV	54.0	-6.7	1.16 H	18	41.20	6.10
3	*5785.00	106.9 PK			1.11 H	130	66.20	40.70
4	*5785.00	96.0 AV			1.11 H	130	55.30	40.70
5	11570.00	66.5 PK	74.0	-7.5	1.79 H	290	47.70	18.80
6	11570.00	52.1 AV	54.0	-1.9	1.79 H	290	33.30	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.5 PK	74.0	-11.5	1.00 V	300	56.40	6.10
2	5000.00	52.4 AV	54.0	-1.6	1.00 V	300	46.30	6.10
3	*5785.00	116.9 PK			1.00 V	179	76.20	40.70
4	*5785.00	105.3 AV			1.00 V	179	64.60	40.70
5	11570.00	65.0 PK	74.0	-9.0	1.00 V	16	46.20	18.80
6	11570.00	51.4 AV	54.0	-2.6	1.00 V	16	32.60	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	57.4 PK	74.0	-16.6	1.16 H	14	51.30	6.10
2	5000.00	47.2 AV	54.0	-6.8	1.16 H	14	41.10	6.10
3	*5825.00	107.6 PK			1.11 H	126	66.90	40.70
4	*5825.00	95.9 AV			1.11 H	126	55.20	40.70
5	#5850.00	65.1 PK	78.2	-13.1	1.36 H	242	58.10	7.00
6	#5853.00	65.6 PK	78.2	-12.6	1.36 H	242	58.50	7.10
7	#5861.00	59.3 PK	74.0	-14.7	1.40 H	239	52.20	7.10
8	#5861.00	48.6 AV	54.0	-5.4	1.40 H	239	41.50	7.10
9	11650.00	68.1 PK	74.0	-5.9	1.79 H	282	48.90	19.20
10	11650.00	52.6 AV	54.0	-1.4	1.79 H	282	33.40	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.0 PK	74.0	-12.0	1.11 V	299	55.90	6.10
2	5000.00	52.4 AV	54.0	-1.6	1.11 V	299	46.30	6.10
3	*5825.00	117.4 PK			1.16 V	25	76.70	40.70
4	*5825.00	106.5 AV			1.16 V	25	65.80	40.70
5	#5850.00	73.3 PK	78.2	-4.9	1.25 V	333	66.30	7.00
6	#5853.00	73.7 PK	78.2	-4.5	1.25 V	333	66.60	7.10
7	#5861.00	64.0 PK	74.0	-10.0	1.23 V	335	56.90	7.10
8	#5861.00	49.3 AV	54.0	-4.7	1.23 V	335	42.20	7.10
9	11650.00	65.0 PK	74.0	-9.0	1.02 V	10	45.80	19.20
10	11650.00	51.6 AV	54.0	-2.4	1.02 V	10	32.40	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	58.4 PK	74.0	-15.6	1.16 H	18	52.30	6.10
2	5000.00	48.0 AV	54.0	-6.0	1.16 H	18	41.90	6.10
3	#5714.00	58.1 PK	74.0	-15.9	1.00 H	208	51.10	7.00
4	#5714.00	47.2 AV	54.0	-6.8	1.00 H	208	40.20	7.00
5	#5722.00	65.2 PK	78.2	-13.0	1.00 H	210	58.20	7.00
6	#5725.00	62.3 PK	78.2	-15.9	1.00 H	210	55.20	7.10
7	*5755.00	99.2 PK			1.21 H	127	58.50	40.70
8	*5755.00	90.0 AV			1.21 H	127	49.30	40.70
9	11510.00	61.0 PK	74.0	-13.0	1.00 H	9	42.30	18.70
10	11510.00	47.4 AV	54.0	-6.6	1.00 H	9	28.70	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.7 PK	74.0	-11.3	1.00 V	299	56.60	6.10
2	5000.00	52.6 AV	54.0	-1.4	1.00 V	299	46.50	6.10
3	#5714.00	68.8 PK	74.0	-5.2	1.00 V	156	61.80	7.00
4	#5714.00	53.0 AV	54.0	-1.0	1.00 V	156	46.00	7.00
5	#5722.00	72.3 PK	78.2	-5.9	1.00 V	151	65.30	7.00
6	#5725.00	72.1 PK	78.2	-6.1	1.00 V	151	65.00	7.10
7	*5755.00	111.7 PK			1.08 V	29	71.00	40.70
8	*5755.00	101.9 AV			1.08 V	29	61.20	40.70
9	11510.00	61.6 PK	74.0	-12.4	1.58 V	331	42.90	18.70
10	11510.00	48.4 AV	54.0	-5.6	1.58 V	331	29.70	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	58.5 PK	74.0	-15.5	1.15 H	14	52.40	6.10
2	5000.00	48.0 AV	54.0	-6.0	1.15 H	14	41.90	6.10
3	*5795.00	105.9 PK			1.01 H	127	65.20	40.70
4	*5795.00	96.6 AV			1.01 H	127	55.90	40.70
5	#5850.00	70.8 PK	78.2	-7.4	1.40 H	256	63.80	7.00
6	#5853.00	72.6 PK	78.2	-5.6	1.40 H	256	65.50	7.10
7	#5861.00	58.4 PK	74.0	-15.6	1.40 H	251	51.30	7.10
8	#5861.00	47.6 AV	54.0	-6.4	1.40 H	251	40.50	7.10
9	11590.00	64.2 PK	74.0	-9.8	1.91 H	282	45.30	18.90
10	11590.00	51.6 AV	54.0	-2.4	1.91 H	282	32.70	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.6 PK	74.0	-11.4	1.24 V	299	56.50	6.10
2	5000.00	52.9 AV	54.0	-1.1	1.24 V	299	46.80	6.10
3	*5795.00	117.2 PK			1.14 V	333	76.50	40.70
4	*5795.00	107.5 AV			1.14 V	333	66.80	40.70
5	#5850.00	73.3 PK	78.2	-4.9	1.24 V	340	66.30	7.00
6	#5853.00	73.0 PK	78.2	-5.2	1.24 V	340	65.90	7.10
7	#5861.00	69.7 PK	74.0	-4.3	1.24 V	333	62.60	7.10
8	#5861.00	51.9 AV	54.0	-2.1	1.24 V	333	44.80	7.10
9	11590.00	65.0 PK	74.0	-9.0	1.11 V	6	46.10	18.90
10	11590.00	52.1 AV	54.0	-1.9	1.11 V	6	33.20	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	57.9 PK	74.0	-16.1	1.01 H	210	50.90	7.00
2	#5714.00	47.1 AV	54.0	-6.9	1.01 H	210	40.10	7.00
3	#5722.00	67.8 PK	78.2	-10.4	1.03 H	212	60.80	7.00
4	#5725.00	67.0 PK	78.2	-11.2	1.03 H	212	59.90	7.10
5	*5775.00	95.5 PK			1.22 H	126	54.80	40.70
6	*5775.00	96.0 PK			1.01 H	126	55.30	40.70
7	#5850.00	62.9 PK	78.2	-15.3	1.01 H	130	55.90	7.00
8	#5853.00	63.9 PK	78.2	-14.3	1.01 H	130	56.80	7.10
9	#5861.00	57.4 PK	74.0	-16.6	1.35 H	240	50.30	7.10
10	#5861.00	47.0 AV	54.0	-7.0	1.35 H	240	39.90	7.10
11	11550.00	61.4 PK	74.0	-12.6	1.23 H	345	42.70	18.70
12	11550.00	47.5 AV	54.0	-6.5	1.23 H	345	28.80	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5000.00	62.7 PK	74.0	-11.3	1.13 V	297	56.60	6.10
2	5000.00	52.6 AV	54.0	-1.4	1.13 V	297	46.50	6.10
3	#5714.00	68.5 PK	74.0	-5.5	1.00 V	156	61.50	7.00
4	#5714.00	53.0 AV	54.0	-1.0	1.00 V	156	46.00	7.00
5	#5722.00	71.8 PK	78.2	-6.4	1.01 V	159	64.80	7.00
6	#5725.00	71.2 PK	78.2	-7.0	1.01 V	159	64.10	7.10
7	*5775.00	106.8 PK			1.08 V	28	66.10	40.70
8	*5775.00	96.6 AV			1.08 V	28	55.90	40.70
9	#5850.00	66.6 PK	78.2	-11.6	1.19 V	30	59.60	7.00
10	#5853.00	69.7 PK	78.2	-8.5	1.19 V	30	62.60	7.10
11	#5861.00	60.7 PK	74.0	-13.3	1.15 V	33	53.60	7.10
12	#5861.00	49.5 AV	54.0	-4.5	1.15 V	33	42.40	7.10
13	11550.00	61.7 PK	74.0	-12.3	1.60 V	330	43.00	18.70
14	11550.00	48.5 AV	54.0	-5.5	1.60 V	330	29.80	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Radio 2: Patch antenna

ABOVE 1GHz DATA

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5180.00	110.1 PK			1.00 H	310	70.20	39.90
2	*5180.00	100.5 AV			1.00 H	310	60.60	39.90
3	5400.00	59.4 PK	74.0	-14.6	1.08 H	345	52.80	6.60
4	5400.00	47.2 AV	54.0	-6.8	1.08 H	345	40.60	6.60
5	#10360.00	61.8 PK	74.0	-12.2	1.14 H	143	43.10	18.70
6	#10360.00	48.6 AV	54.0	-5.4	1.14 H	143	29.90	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5180.00	113.8 PK			1.00 V	348	73.90	39.90
2	*5180.00	104.4 AV			1.00 V	348	64.50	39.90
3	5400.00	62.7 PK	74.0	-11.3	1.00 V	2	56.10	6.60
4	5400.00	50.9 AV	54.0	-3.1	1.00 V	2	44.30	6.60
5	#10360.00	62.2 PK	74.0	-11.8	1.00 V	163	43.50	18.70
6	#10360.00	48.6 AV	54.0	-5.4	1.00 V	163	29.90	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	111.8 PK			1.00 H	308	71.80	40.00
2	*5200.00	102.1 AV			1.00 H	308	62.10	40.00
3	5360.00	58.6 PK	74.0	-15.4	1.00 H	323	52.20	6.40
4	5360.00	46.9 AV	54.0	-7.1	1.00 H	323	40.50	6.40
5	#10400.00	60.8 PK	74.0	-13.2	1.22 H	231	41.80	19.00
6	#10400.00	47.8 AV	54.0	-6.2	1.22 H	231	28.80	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	114.9 PK			1.00 V	346	74.90	40.00
2	*5200.00	105.1 AV			1.00 V	346	65.10	40.00
3	5360.00	63.4 PK	74.0	-10.6	1.00 V	2	57.00	6.40
4	5360.00	52.2 AV	54.0	-1.8	1.00 V	2	45.80	6.40
5	#10400.00	61.0 PK	74.0	-13.0	1.00 V	72	42.00	19.00
6	#10400.00	47.7 AV	54.0	-6.3	1.00 V	72	28.70	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	114.5 PK			1.11 H	319	74.50	40.00
2	*5240.00	104.5 AV			1.11 H	319	64.50	40.00
3	5400.00	59.4 PK	74.0	-14.6	1.00 H	337	52.80	6.60
4	5400.00	47.9 AV	54.0	-6.1	1.00 H	337	41.30	6.60
5	#10480.00	60.4 PK	74.0	-13.6	1.14 H	251	41.20	19.20
6	#10480.00	47.2 AV	54.0	-6.8	1.14 H	251	28.00	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	116.6 PK			1.00 V	0	76.60	40.00
2	*5240.00	106.8 AV			1.00 V	0	66.80	40.00
3	5400.00	61.7 PK	74.0	-12.3	1.07 V	4	55.10	6.60
4	5400.00	50.5 AV	54.0	-3.5	1.07 V	4	43.90	6.60
5	#10480.00	60.2 PK	74.0	-13.8	1.01 V	114	41.00	19.20
6	#10480.00	47.4 AV	54.0	-6.6	1.01 V	114	28.20	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5180.00	110.9 PK			1.00 H	27	71.00	39.90
2	*5180.00	100.5 AV			1.00 H	27	60.60	39.90
3	5400.00	58.1 PK	74.0	-15.9	1.09 H	338	51.50	6.60
4	5400.00	45.5 AV	54.0	-8.5	1.09 H	338	38.90	6.60
5	#10360.00	60.7 PK	74.0	-13.3	1.13 H	91	42.00	18.70
6	#10360.00	46.8 AV	54.0	-7.2	1.13 H	91	28.10	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5180.00	114.1 PK			1.00 V	347	74.20	39.90
2	*5180.00	104.6 AV			1.00 V	347	64.70	39.90
3	5400.00	60.5 PK	74.0	-13.5	1.00 V	5	53.90	6.60
4	5400.00	48.1 AV	54.0	-5.9	1.00 V	5	41.50	6.60
5	#10360.00	59.9 PK	74.0	-14.1	1.00 V	216	41.20	18.70
6	#10360.00	46.8 AV	54.0	-7.2	1.00 V	216	28.10	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	112.2 PK			1.00 H	310	72.20	40.00
2	*5200.00	101.7 AV			1.00 H	310	61.70	40.00
3	5360.00	58.7 PK	74.0	-15.3	1.00 H	324	52.30	6.40
4	5360.00	46.4 AV	54.0	-7.6	1.00 H	324	40.00	6.40
5	#10400.00	60.8 PK	74.0	-13.2	1.00 H	62	41.80	19.00
6	#10400.00	47.8 AV	54.0	-6.2	1.00 H	62	28.80	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	114.8 PK			1.00 V	342	74.80	40.00
2	*5200.00	105.0 AV			1.00 V	342	65.00	40.00
3	5360.00	59.9 PK	74.0	-14.1	1.00 V	0	53.50	6.40
4	5360.00	49.2 AV	54.0	-4.8	1.00 V	0	42.80	6.40
5	#10400.00	60.6 PK	74.0	-13.4	1.02 V	243	41.60	19.00
6	#10400.00	47.2 AV	54.0	-6.8	1.02 V	243	28.20	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	113.9 PK			1.11 H	317	73.90	40.00
2	*5240.00	102.9 AV			1.11 H	317	62.90	40.00
3	5400.00	58.7 PK	74.0	-15.3	1.10 H	339	52.10	6.60
4	5400.00	47.0 AV	54.0	-7.0	1.10 H	339	40.40	6.60
5	#10480.00	60.2 PK	74.0	-13.8	1.12 H	86	41.00	19.20
6	#10480.00	46.7 AV	54.0	-7.3	1.12 H	86	27.50	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	116.8 PK			1.00 V	347	76.80	40.00
2	*5240.00	106.8 AV			1.00 V	347	66.80	40.00
3	5400.00	61.7 PK	74.0	-12.3	1.00 V	3	55.10	6.60
4	5400.00	49.7 AV	54.0	-4.3	1.00 V	3	43.10	6.60
5	#10480.00	59.4 PK	74.0	-14.6	1.00 V	219	40.20	19.20
6	#10480.00	46.9 AV	54.0	-7.1	1.00 V	219	27.70	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.4 PK	74.0	-11.6	1.00 H	30	56.00	6.40
2	5150.00	46.0 AV	54.0	-8.0	1.00 H	30	39.60	6.40
3	*5190.00	109.2 PK			1.02 H	312	69.30	39.90
4	*5190.00	98.2 AV			1.02 H	312	58.30	39.90
5	#10380.00	60.1 PK	74.0	-13.9	1.02 H	213	41.30	18.80
6	#10380.00	47.1 AV	54.0	-6.9	1.02 H	213	28.30	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	1.00 V	336	59.00	6.40
2	5150.00	48.8 AV	54.0	-5.2	1.00 V	336	42.40	6.40
3	*5190.00	111.5 PK			1.00 V	344	71.60	39.90
4	*5190.00	101.8 AV			1.00 V	344	61.90	39.90
5	#10380.00	60.0 PK	74.0	-14.0	1.00 V	216	41.20	18.80
6	#10380.00	47.3 AV	54.0	-6.7	1.00 V	216	28.50	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	111.4 PK			1.12 H	313	71.40	40.00
2	*5230.00	100.0 AV			1.12 H	313	60.00	40.00
3	5400.00	58.2 PK	74.0	-15.8	1.11 H	329	51.60	6.60
4	5400.00	46.3 AV	54.0	-7.7	1.11 H	329	39.70	6.60
5	#10460.00	60.3 PK	74.0	-13.7	1.14 H	102	41.20	19.10
6	#10460.00	46.7 AV	54.0	-7.3	1.14 H	102	27.60	19.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	113.2 PK			1.00 V	347	73.20	40.00
2	*5230.00	103.2 AV			1.00 V	347	63.20	40.00
3	5400.00	59.8 PK	74.0	-14.2	1.07 V	3	53.20	6.60
4	5400.00	48.4 AV	54.0	-5.6	1.07 V	3	41.80	6.60
5	#10460.00	60.4 PK	74.0	-13.6	1.00 V	216	41.30	19.10
6	#10460.00	47.2 AV	54.0	-6.8	1.00 V	216	28.10	19.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.1 PK	74.0	-7.9	1.00 H	304	59.70	6.40
2	5150.00	46.9 AV	54.0	-7.1	1.00 H	304	40.50	6.40
3	*5210.00	106.3 PK			1.00 H	314	66.30	40.00
4	*5210.00	96.0 AV			1.00 H	314	56.00	40.00
5	#5788.00	61.5 PK	68.2	-6.7	1.00 H	321	54.40	7.10
6	#10420.00	59.8 PK	74.0	-14.2	1.14 H	116	40.90	18.90
7	#10420.00	47.4 AV	54.0	-6.6	1.14 H	116	28.50	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.4 PK	74.0	-3.6	1.00 V	345	64.00	6.40
2	5150.00	50.4 AV	54.0	-3.6	1.00 V	345	44.00	6.40
3	*5210.00	109.6 PK			1.00 V	349	69.60	40.00
4	*5210.00	99.6 AV			1.00 V	349	59.60	40.00
5	#5788.00	62.2 PK	68.2	-6.0	1.00 V	352	55.10	7.10
6	#10420.00	59.8 PK	74.0	-14.2	1.00 V	312	40.90	18.90
7	#10420.00	46.9 AV	54.0	-7.1	1.00 V	312	28.00	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	64.6 PK	74.0	-9.4	1.00 H	314	57.60	7.00
2	#5714.00	49.4 AV	54.0	-4.6	1.00 H	314	42.40	7.00
3	#5722.00	71.8 PK	78.2	-6.4	1.02 H	315	64.80	7.00
4	#5725.00	59.4 PK	78.2	-18.8	1.03 H	316	52.30	7.10
5	*5745.00	115.1 PK			1.02 H	317	74.50	40.60
6	*5745.00	104.0 AV			1.02 H	317	63.40	40.60
7	11490.00	58.8 PK	74.0	-15.2	1.17 H	126	40.10	18.70
8	11490.00	46.1 AV	54.0	-7.9	1.17 H	126	27.40	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	66.9 PK	74.0	-7.1	1.00 V	346	59.90	7.00
2	#5714.00	50.8 AV	54.0	-3.2	1.00 V	346	43.80	7.00
3	#5722.00	76.6 PK	78.2	-1.6	1.00 V	350	69.60	7.00
4	#5725.00	61.1 PK	78.2	-17.1	1.00 V	343	54.00	7.10
5	*5745.00	119.2 PK			1.00 V	344	78.60	40.60
6	*5745.00	108.7 AV			1.00 V	344	68.10	40.60
7	11490.00	59.0 PK	74.0	-15.0	1.00 V	319	40.30	18.70
8	11490.00	45.8 AV	54.0	-8.2	1.00 V	319	27.10	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	121.8 PK			1.01 H	319	81.10	40.70
2	*5785.00	111.5 AV			1.01 H	319	70.80	40.70
3	11570.00	62.8 PK	74.0	-11.2	1.00 H	308	44.00	18.80
4	11570.00	51.9 AV	54.0	-2.1	1.00 H	308	33.10	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	124.6 PK			1.00 V	0	83.90	40.70
2	*5785.00	114.8 AV			1.00 V	0	74.10	40.70
3	11570.00	64.9 PK	74.0	-9.1	1.00 V	8	46.10	18.80
4	11570.00	52.6 AV	54.0	-1.4	1.00 V	8	33.80	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	119.8 PK			1.01 H	322	79.10	40.70
2	*5825.00	109.6 AV			1.01 H	322	68.90	40.70
3	#5850.00	60.5 PK	78.2	-17.7	1.00 H	325	53.50	7.00
4	#5853.00	76.5 PK	78.2	-1.7	1.00 H	323	69.40	7.10
5	#5861.00	72.8 PK	74.0	-1.2	1.00 H	335	65.70	7.10
6	#5861.00	51.4 AV	54.0	-2.6	1.00 H	335	44.30	7.10
7	11650.00	63.6 PK	74.0	-10.4	1.00 H	334	44.40	19.20
8	11650.00	50.9 AV	54.0	-3.1	1.00 H	334	31.70	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	121.5 PK			1.00 V	347	80.80	40.70
2	*5825.00	111.9 AV			1.00 V	347	71.20	40.70
3	#5850.00	59.8 PK	78.2	-18.4	1.00 V	2	52.80	7.00
4	#5853.00	73.4 PK	78.2	-4.8	1.08 V	1	66.30	7.10
5	#5861.00	71.2 PK	74.0	-2.8	1.08 V	0	64.10	7.10
6	#5861.00	52.9 AV	54.0	-1.1	1.08 V	0	45.80	7.10
7	11650.00	67.0 PK	74.0	-7.0	1.48 V	6	47.80	19.20
8	11650.00	52.7 AV	54.0	-1.3	1.48 V	6	33.50	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	65.9 PK	74.0	-8.1	1.03 H	339	58.90	7.00
2	#5714.00	50.1 AV	54.0	-3.9	1.03 H	339	43.10	7.00
3	#5722.00	73.9 PK	78.2	-4.3	1.03 H	339	66.90	7.00
4	#5725.00	60.2 PK	78.2	-18.0	1.04 H	342	53.10	7.10
5	*5745.00	114.5 PK			1.02 H	318	73.90	40.60
6	*5745.00	104.1 AV			1.02 H	318	63.50	40.60
7	11490.00	58.6 PK	74.0	-15.4	1.05 H	349	39.90	18.70
8	11490.00	46.0 AV	54.0	-8.0	1.05 H	349	27.30	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	64.4 PK	74.0	-9.6	1.00 V	348	57.40	7.00
2	#5714.00	50.5 AV	54.0	-3.5	1.00 V	348	43.50	7.00
3	#5722.00	76.9 PK	78.2	-1.3	1.00 V	350	69.90	7.00
4	#5725.00	60.8 PK	78.2	-17.4	1.00 V	349	53.70	7.10
5	*5745.00	119.6 PK			1.00 V	346	79.00	40.60
6	*5745.00	108.2 AV			1.00 V	346	67.60	40.60
7	11490.00	60.8 PK	74.0	-13.2	1.10 V	1	42.10	18.70
8	11490.00	47.1 AV	54.0	-6.9	1.10 V	1	28.40	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	121.7 PK			1.00 H	317	81.00	40.70
2	*5785.00	111.3 AV			1.00 H	317	70.60	40.70
3	11570.00	64.6 PK	74.0	-9.4	1.00 H	290	45.80	18.80
4	11570.00	51.9 AV	54.0	-2.1	1.00 H	290	33.10	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	124.4 PK			1.00 V	359	83.70	40.70
2	*5785.00	115.1 AV			1.00 V	359	74.40	40.70
3	11570.00	63.9 PK	74.0	-10.1	1.04 V	9	45.10	18.80
4	11570.00	52.5 AV	54.0	-1.5	1.04 V	9	33.70	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	119.7 PK			1.01 H	325	79.00	40.70
2	*5825.00	108.5 AV			1.01 H	325	67.80	40.70
3	#5850.00	59.9 PK	78.2	-18.3	1.01 H	333	52.90	7.00
4	#5853.00	76.9 PK	78.2	-1.3	1.02 H	332	69.80	7.10
5	#5861.00	71.8 PK	74.0	-2.2	1.01 H	336	64.70	7.10
6	#5861.00	50.3 AV	54.0	-3.7	1.01 H	336	43.20	7.10
7	11650.00	60.9 PK	74.0	-13.1	1.29 H	97	41.70	19.20
8	11650.00	48.1 AV	54.0	-5.9	1.29 H	97	28.90	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	120.2 PK			1.00 V	353	79.50	40.70
2	*5825.00	110.8 AV			1.00 V	353	70.10	40.70
3	#5850.00	61.8 PK	78.2	-16.4	1.07 V	0	54.80	7.00
4	#5853.00	75.2 PK	78.2	-3.0	1.08 V	0	68.10	7.10
5	#5861.00	71.2 PK	74.0	-2.8	1.08 V	6	64.10	7.10
6	#5861.00	53.0 AV	54.0	-1.0	1.08 V	6	45.90	7.10
7	11650.00	64.4 PK	74.0	-9.6	1.09 V	89	45.20	19.20
8	11650.00	52.4 AV	54.0	-1.6	1.09 V	89	33.20	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	69.0 PK	74.0	-5.0	1.11 H	316	62.00	7.00
2	#5714.00	52.8 AV	54.0	-1.2	1.11 H	316	45.80	7.00
3	#5722.00	71.0 PK	78.2	-7.2	1.11 H	316	64.00	7.00
4	#5725.00	57.7 PK	78.2	-20.5	1.12 H	321	50.60	7.10
5	*5755.00	110.0 PK			1.01 H	317	69.30	40.70
6	*5755.00	99.4 AV			1.01 H	317	58.70	40.70
7	11510.00	59.3 PK	74.0	-14.7	1.12 H	105	40.60	18.70
8	11510.00	45.7 AV	54.0	-8.3	1.12 H	105	27.00	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	68.9 PK	74.0	-5.1	1.00 V	343	61.90	7.00
2	#5714.00	52.9 AV	54.0	-1.1	1.00 V	343	45.90	7.00
3	#5722.00	70.7 PK	78.2	-7.5	1.00 V	345	63.70	7.00
4	#5725.00	57.8 PK	78.2	-20.4	1.00 V	348	50.70	7.10
5	*5755.00	112.0 PK			1.00 V	354	71.30	40.70
6	*5755.00	103.3 AV			1.00 V	354	62.60	40.70
7	11510.00	59.0 PK	74.0	-15.0	1.00 V	243	40.30	18.70
8	11510.00	46.2 AV	54.0	-7.8	1.00 V	243	27.50	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	115.6 PK			1.00 H	316	74.90	40.70
2	*5795.00	105.1 AV			1.00 H	316	64.40	40.70
3	#5850.00	53.6 PK	78.2	-24.6	1.00 H	328	46.60	7.00
4	#5853.00	70.3 PK	78.2	-7.9	1.00 H	323	63.20	7.10
5	#5861.00	68.0 PK	74.0	-6.0	1.00 H	327	60.90	7.10
6	#5861.00	50.7 AV	54.0	-3.3	1.00 H	327	43.60	7.10
7	11590.00	60.5 PK	74.0	-13.5	1.00 H	246	41.60	18.90
8	11590.00	48.0 AV	54.0	-6.0	1.00 H	246	29.10	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	118.7 PK			1.00 V	347	78.00	40.70
2	*5795.00	108.7 AV			1.00 V	347	68.00	40.70
3	#5850.00	56.2 PK	78.2	-22.0	1.06 V	343	49.20	7.00
4	#5853.00	71.4 PK	78.2	-6.8	1.01 V	8	64.30	7.10
5	#5861.00	71.3 PK	74.0	-2.7	1.06 V	349	64.20	7.10
6	#5861.00	52.9 AV	54.0	-1.1	1.06 V	349	45.80	7.10
7	11590.00	61.2 PK	74.0	-12.8	1.00 V	5	42.30	18.90
8	11590.00	48.3 AV	54.0	-5.7	1.00 V	5	29.40	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	66.7 PK	74.0	-7.3	1.03 H	326	59.70	7.00
2	#5714.00	52.5 AV	54.0	-1.5	1.03 H	326	45.50	7.00
3	#5722.00	69.1 PK	78.2	-9.1	1.03 H	340	62.10	7.00
4	#5725.00	54.2 PK	78.2	-24.0	1.04 H	346	47.10	7.10
5	*5775.00	105.7 PK			1.02 H	318	65.00	40.70
6	*5775.00	95.0 AV			1.02 H	318	54.30	40.70
7	11550.00	59.1 PK	74.0	-14.9	1.14 H	333	40.40	18.70
8	11550.00	46.1 AV	54.0	-7.9	1.14 H	333	27.40	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	67.8 PK	74.0	-6.2	1.00 V	342	60.80	7.00
2	#5714.00	52.5 AV	54.0	-1.5	1.00 V	342	45.50	7.00
3	#5722.00	72.3 PK	78.2	-5.9	1.00 V	348	65.30	7.00
4	#5725.00	53.6 PK	78.2	-24.6	1.00 V	342	46.50	7.10
5	*5775.00	106.9 PK			1.00 V	0	66.20	40.70
6	*5775.00	97.5 AV			1.00 V	0	56.80	40.70
7	11550.00	59.4 PK	74.0	-14.6	1.00 V	63	40.70	18.70
8	11550.00	45.9 AV	54.0	-8.1	1.00 V	63	27.20	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Radio 2: Sector antenna

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.8 PK	74.0	-17.2	1.05 H	216	50.40	6.40
2	5150.00	44.7 AV	54.0	-9.3	1.05 H	216	38.30	6.40
3	*5180.00	108.9 PK			1.00 H	354	69.00	39.90
4	*5180.00	98.8 AV			1.00 H	354	58.90	39.90
5	#10360.00	59.6 PK	74.0	-14.4	1.14 H	213	40.90	18.70
6	#10360.00	46.7 AV	54.0	-7.3	1.14 H	213	28.00	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.7 PK	74.0	-17.3	1.00 V	213	50.30	6.40
2	5150.00	43.7 AV	54.0	-10.3	1.00 V	213	37.30	6.40
3	*5180.00	105.0 PK			1.24 V	327	65.10	39.90
4	*5180.00	95.4 AV			1.24 V	327	55.50	39.90
5	#10360.00	60.3 PK	74.0	-13.7	1.00 V	124	41.60	18.70
6	#10360.00	46.9 AV	54.0	-7.1	1.00 V	124	28.20	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.5 PK			1.09 H	0	68.50	40.00
2	*5200.00	98.5 AV			1.09 H	0	58.50	40.00
3	#10400.00	59.7 PK	74.0	-14.3	1.08 H	84	40.70	19.00
4	#10400.00	46.8 AV	54.0	-7.2	1.08 H	84	27.80	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	105.7 PK			1.15 V	328	65.70	40.00
2	*5200.00	96.3 AV			1.15 V	328	56.30	40.00
3	#10400.00	59.8 PK	74.0	-14.2	1.00 V	184	40.80	19.00
4	#10400.00	46.7 AV	54.0	-7.3	1.00 V	184	27.70	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	109.8 PK			1.00 H	349	69.80	40.00
2	*5240.00	99.5 AV			1.00 H	349	59.50	40.00
3	5400.00	57.9 PK	74.0	-16.1	1.00 H	0	51.30	6.60
4	5400.00	45.9 AV	54.0	-8.1	1.00 H	0	39.30	6.60
5	#10480.00	60.1 PK	74.0	-13.9	1.14 H	76	40.90	19.20
6	#10480.00	46.7 AV	54.0	-7.3	1.14 H	76	27.50	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	105.6 PK			1.10 V	324	65.60	40.00
2	*5240.00	95.7 AV			1.10 V	324	55.70	40.00
3	5400.00	58.2 PK	74.0	-15.8	1.19 V	0	51.60	6.60
4	5400.00	46.4 AV	54.0	-7.6	1.19 V	0	39.80	6.60
5	#10480.00	59.6 PK	74.0	-14.4	1.00 V	215	40.40	19.20
6	#10480.00	46.9 AV	54.0	-7.1	1.00 V	215	27.70	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	1.00 H	98	49.90	6.40
2	5150.00	43.3 AV	54.0	-10.7	1.00 H	98	36.90	6.40
3	*5180.00	109.6 PK			1.12 H	0	69.70	39.90
4	*5180.00	98.3 AV			1.12 H	0	58.40	39.90
5	#10360.00	59.8 PK	74.0	-14.2	1.05 H	146	41.10	18.70
6	#10360.00	47.1 AV	54.0	-6.9	1.05 H	146	28.40	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.6 PK	74.0	-17.4	1.00 V	105	50.20	6.40
2	5150.00	44.3 AV	54.0	-9.7	1.00 V	105	37.90	6.40
3	*5180.00	105.7 PK			1.28 V	321	65.80	39.90
4	*5180.00	95.3 AV			1.28 V	321	55.40	39.90
5	#10360.00	59.7 PK	74.0	-14.3	1.00 V	215	41.00	18.70
6	#10360.00	46.6 AV	54.0	-7.4	1.00 V	215	27.90	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.9 PK			1.09 H	355	68.90	40.00
2	*5200.00	97.8 AV			1.09 H	355	57.80	40.00
3	#10400.00	60.4 PK	74.0	-13.6	1.11 H	121	41.40	19.00
4	#10400.00	47.2 AV	54.0	-6.8	1.11 H	121	28.20	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	104.7 PK			1.13 V	327	64.70	40.00
2	*5200.00	95.2 AV			1.13 V	327	55.20	40.00
3	#10400.00	60.6 PK	74.0	-13.4	1.00 V	164	41.60	19.00
4	#10400.00	47.1 AV	54.0	-6.9	1.00 V	164	28.10	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	109.9 PK			1.00 H	353	69.90	40.00
2	*5240.00	98.4 AV			1.00 H	353	58.40	40.00
3	5400.00	58.6 PK	74.0	-15.4	1.15 H	349	52.00	6.60
4	5400.00	45.7 AV	54.0	-8.3	1.15 H	349	39.10	6.60
5	#10480.00	59.5 PK	74.0	-14.5	1.00 H	246	40.30	19.20
6	#10480.00	47.0 AV	54.0	-7.0	1.00 H	246	27.80	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	105.2 PK			1.25 V	323	65.20	40.00
2	*5240.00	95.5 AV			1.25 V	323	55.50	40.00
3	5400.00	48.3 PK	74.0	-25.7	1.22 V	360	41.70	6.60
4	5400.00	46.4 AV	54.0	-7.6	1.22 V	360	39.80	6.60
5	#10480.00	60.3 PK	74.0	-13.7	1.00 V	64	41.10	19.20
6	#10480.00	47.0 AV	54.0	-7.0	1.00 V	64	27.80	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.9 PK	74.0	-16.1	1.10 H	340	51.50	6.40
2	5150.00	45.4 AV	54.0	-8.6	1.10 H	340	39.00	6.40
3	*5190.00	106.3 PK			1.11 H	0	66.40	39.90
4	*5190.00	95.5 AV			1.11 H	0	55.60	39.90
5	#10380.00	60.3 PK	74.0	-13.7	1.10 H	99	41.50	18.80
6	#10380.00	46.8 AV	54.0	-7.2	1.10 H	99	28.00	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	46.2 PK	74.0	-27.8	1.00 V	219	39.80	6.40
2	5150.00	34.1 AV	54.0	-19.9	1.00 V	219	27.70	6.40
3	*5190.00	101.9 PK			1.21 V	322	62.00	39.90
4	*5190.00	91.8 AV			1.21 V	322	51.90	39.90
5	#10380.00	60.3 PK	74.0	-13.7	1.00 V	243	41.50	18.80
6	#10380.00	47.2 AV	54.0	-6.8	1.00 V	243	28.40	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	105.7 PK			1.00 H	0	65.70	40.00
2	*5230.00	95.7 AV			1.00 H	0	55.70	40.00
3	5350.00	57.0 PK	74.0	-17.0	1.00 H	110	50.60	6.40
4	5350.00	45.0 AV	54.0	-9.0	1.00 H	110	38.60	6.40
5	#10460.00	60.2 PK	74.0	-13.8	1.13 H	84	41.10	19.10
6	#10460.00	46.4 AV	54.0	-7.6	1.13 H	84	27.30	19.10
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	102.9 PK			1.21 V	332	62.90	40.00
2	*5230.00	93.1 AV			1.21 V	332	53.10	40.00
3	5400.00	58.0 PK	74.0	-16.0	1.22 V	330	51.40	6.60
4	5400.00	45.7 AV	54.0	-8.3	1.22 V	330	39.10	6.60
5	#10460.00	59.6 PK	74.0	-14.4	1.00 V	284	40.50	19.10
6	#10460.00	46.8 AV	54.0	-7.2	1.00 V	284	27.70	19.10

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.1 PK	74.0	-11.9	1.10 H	356	55.70	6.40
2	5150.00	45.8 AV	54.0	-8.2	1.10 H	356	39.40	6.40
3	*5210.00	98.7 PK			1.21 H	317	58.70	40.00
4	*5210.00	88.9 AV			1.21 H	317	48.90	40.00
5	#5788.00	65.1 PK	68.2	-3.1	1.13 H	6	58.00	7.10
6	#10420.00	60.1 PK	74.0	-13.9	1.16 H	241	41.20	18.90
7	#10420.00	47.1 AV	54.0	-6.9	1.16 H	241	28.20	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.0 PK	74.0	-17.0	1.00 V	203	50.60	6.40
2	5150.00	44.4 AV	54.0	-9.6	1.00 V	203	38.00	6.40
3	*5210.00	99.2 PK			1.23 V	319	59.20	40.00
4	*5210.00	88.7 AV			1.23 V	319	48.70	40.00
5	#5788.00	59.8 PK	68.2	-8.4	1.21 V	0	52.70	7.10
6	#10420.00	60.5 PK	74.0	-13.5	1.00 V	133	41.60	18.90
7	#10420.00	47.1 AV	54.0	-6.9	1.00 V	133	28.20	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	67.0 PK	74.0	-7.0	1.00 H	3	60.00	7.00
2	#5714.00	52.3 AV	54.0	-1.7	1.00 H	3	45.30	7.00
3	#5722.00	72.2 PK	78.2	-6.0	1.01 H	0	65.20	7.00
4	#5725.00	55.8 PK	78.2	-22.4	1.06 H	359	48.70	7.10
5	*5745.00	122.6 PK			1.00 H	0	82.00	40.60
6	*5745.00	112.7 AV			1.00 H	0	72.10	40.60
7	#5903.00	66.7 PK	68.2	-1.5	1.00 H	1	59.50	7.20
8	11490.00	59.6 PK	74.0	-14.4	1.17 H	108	40.90	18.70
9	11490.00	46.4 AV	54.0	-7.6	1.17 H	108	27.70	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	63.6 PK	74.0	-10.4	1.12 V	0	56.60	7.00
2	#5714.00	50.4 AV	54.0	-3.6	1.12 V	0	43.40	7.00
3	#5722.00	66.6 PK	78.2	-11.6	1.14 V	4	59.60	7.00
4	#5725.00	51.8 PK	78.2	-26.4	1.08 V	4	44.70	7.10
5	*5745.00	118.2 PK			1.18 V	351	77.60	40.60
6	*5745.00	108.7 AV			1.18 V	351	68.10	40.60
7	#5903.00	63.9 PK	68.2	-4.3	1.16 V	352	56.70	7.20
8	11490.00	59.3 PK	74.0	-14.7	1.02 V	243	40.60	18.70
9	11490.00	46.4 AV	54.0	-7.6	1.02 V	243	27.70	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	124.9 PK			1.00 H	0	84.20	40.70
2	*5785.00	115.1 AV			1.00 H	0	74.40	40.70
3	#5945.00	67.1 PK	68.2	-1.1	1.00 H	7	59.90	7.20
4	11570.00	60.4 PK	74.0	-13.6	1.09 H	283	41.60	18.80
5	11570.00	46.6 AV	54.0	-7.4	1.09 H	283	27.80	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	119.9 PK			1.06 V	356	79.20	40.70
2	*5785.00	110.3 AV			1.06 V	356	69.60	40.70
3	#5945.00	65.3 PK	68.2	-2.9	1.12 V	350	58.10	7.20
4	11570.00	60.7 PK	74.0	-13.3	1.00 V	93	41.90	18.80
5	11570.00	47.0 AV	54.0	-7.0	1.00 V	93	28.20	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	124.7 PK			1.00 H	2	84.00	40.70
2	*5825.00	114.9 AV			1.00 H	2	74.20	40.70
3	#5850.00	55.9 PK	78.2	-22.3	1.00 H	4	48.90	7.00
4	#5853.00	70.0 PK	78.2	-8.2	1.00 H	4	62.90	7.10
5	#5861.00	68.1 PK	74.0	-5.9	1.00 H	0	61.00	7.10
6	#5861.00	52.8 AV	54.0	-1.2	1.00 H	0	45.70	7.10
7	#5983.00	66.0 PK	68.2	-2.2	1.00 H	3	58.80	7.20
8	11650.00	59.7 PK	74.0	-14.3	1.13 H	264	40.50	19.20
9	11650.00	46.7 AV	54.0	-7.3	1.13 H	264	27.50	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	120.6 PK			1.16 V	356	79.90	40.70
2	*5825.00	111.2 AV			1.16 V	356	70.50	40.70
3	#5850.00	52.1 PK	78.2	-26.1	1.25 V	322	45.10	7.00
4	#5853.00	66.8 PK	78.2	-11.4	1.16 V	316	59.70	7.10
5	#5861.00	63.1 PK	74.0	-10.9	1.09 V	348	56.00	7.10
6	#5861.00	50.9 AV	54.0	-3.1	1.09 V	348	43.80	7.10
7	#5983.00	65.2 PK	68.2	-3.0	1.21 V	340	58.00	7.20
8	11650.00	62.2 PK	74.0	-11.8	1.00 V	102	43.00	19.20
9	11650.00	48.5 AV	54.0	-5.5	1.00 V	102	29.30	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	66.8 PK	74.0	-7.2	1.00 H	0	59.80	7.00
2	#5714.00	51.6 AV	54.0	-2.4	1.00 H	0	44.60	7.00
3	#5722.00	76.4 PK	78.2	-1.8	1.00 H	4	69.40	7.00
4	#5725.00	57.0 PK	78.2	-21.2	1.07 H	2	49.90	7.10
5	*5745.00	122.3 PK			1.00 H	0	81.70	40.60
6	*5745.00	111.5 AV			1.00 H	0	70.90	40.60
7	#5984.00	65.4 PK	68.2	-2.8	1.00 H	16	58.20	7.20
8	11490.00	59.9 PK	74.0	-14.1	1.13 H	124	41.20	18.70
9	11490.00	46.1 AV	54.0	-7.9	1.13 H	124	27.40	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	62.9 PK	74.0	-11.1	1.07 V	6	55.90	7.00
2	#5714.00	50.2 AV	54.0	-3.8	1.07 V	6	43.20	7.00
3	#5722.00	70.0 PK	78.2	-8.2	1.00 V	0	63.00	7.00
4	#5725.00	54.3 PK	78.2	-23.9	1.02 V	1	47.20	7.10
5	*5745.00	117.7 PK			1.18 V	353	77.10	40.60
6	*5745.00	107.2 AV			1.18 V	353	66.60	40.60
7	#5984.00	63.3 PK	68.2	-4.9	1.10 V	328	56.10	7.20
8	11490.00	61.0 PK	74.0	-13.0	1.00 V	213	42.30	18.70
9	11490.00	47.8 AV	54.0	-6.2	1.00 V	213	29.10	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	125.5 PK			1.00 H	5	84.80	40.70
2	*5785.00	114.5 AV			1.00 H	5	73.80	40.70
3	#5938.00	66.4 PK	68.2	-1.8	1.00 H	4	59.20	7.20
4	11570.00	59.7 PK	74.0	-14.3	1.13 H	246	40.90	18.80
5	11570.00	45.6 AV	54.0	-8.4	1.13 H	246	26.80	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	119.7 PK			1.17 V	349	79.00	40.70
2	*5785.00	109.8 AV			1.17 V	349	69.10	40.70
3	#5938.00	64.7 PK	68.2	-3.5	1.04 V	351	57.50	7.20
4	11570.00	59.5 PK	74.0	-14.5	1.00 V	142	40.70	18.80
5	11570.00	46.2 AV	54.0	-7.8	1.00 V	142	27.40	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	124.5 PK			1.00 H	3	83.80	40.70
2	*5825.00	113.5 AV			1.00 H	3	72.80	40.70
3	#5850.00	57.2 PK	78.2	-21.0	1.00 H	0	50.20	7.00
4	#5853.00	71.2 PK	78.2	-7.0	1.03 H	7	64.10	7.10
5	#5861.00	68.7 PK	74.0	-5.3	1.00 H	4	61.60	7.10
6	#5861.00	52.8 AV	54.0	-1.2	1.00 H	4	45.70	7.10
7	#5983.00	66.6 PK	68.2	-1.6	1.00 H	8	59.40	7.20
8	11650.00	59.7 PK	74.0	-14.3	1.18 H	70	40.50	19.20
9	11650.00	47.9 AV	54.0	-6.1	1.18 H	70	28.70	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	118.7 PK			1.08 V	5	78.00	40.70
2	*5825.00	108.6 AV			1.08 V	5	67.90	40.70
3	#5850.00	56.8 PK	78.2	-21.4	1.07 V	346	49.80	7.00
4	#5853.00	72.5 PK	78.2	-5.7	1.07 V	356	65.40	7.10
5	#5861.00	65.8 PK	74.0	-8.2	1.06 V	352	58.70	7.10
6	#5861.00	51.8 AV	54.0	-2.2	1.06 V	352	44.70	7.10
7	#5983.00	65.2 PK	68.2	-3.0	1.20 V	335	58.00	7.20
8	11650.00	59.5 PK	74.0	-14.5	1.04 V	246	40.30	19.20
9	11650.00	46.6 AV	54.0	-7.4	1.04 V	246	27.40	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	69.8 PK	74.0	-4.2	1.00 H	0	62.80	7.00
2	#5714.00	52.9 AV	54.0	-1.1	1.00 H	0	45.90	7.00
3	#5722.00	70.0 PK	78.2	-8.2	1.00 H	2	63.00	7.00
4	#5725.00	56.1 PK	78.2	-22.1	1.00 H	358	49.00	7.10
5	*5755.00	114.8 PK			1.00 H	5	74.10	40.70
6	*5755.00	104.4 AV			1.00 H	5	63.70	40.70
7	11510.00	58.7 PK	74.0	-15.3	1.14 H	86	40.00	18.70
8	11510.00	46.4 AV	54.0	-7.6	1.14 H	86	27.70	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	63.8 PK	74.0	-10.2	1.00 V	6	56.80	7.00
2	#5714.00	48.8 AV	54.0	-5.2	1.00 V	6	41.80	7.00
3	#5722.00	65.6 PK	78.2	-12.6	1.04 V	0	58.60	7.00
4	#5725.00	52.0 PK	78.2	-26.2	1.00 V	8	44.90	7.10
5	*5755.00	110.3 PK			1.08 V	356	69.60	40.70
6	*5755.00	100.2 AV			1.08 V	356	59.50	40.70
7	11510.00	57.7 PK	74.0	-16.3	1.00 V	272	39.00	18.70
8	11510.00	45.3 AV	54.0	-8.7	1.00 V	272	26.60	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	121.5 PK			1.00 H	7	80.80	40.70
2	*5795.00	110.5 AV			1.00 H	7	69.80	40.70
3	#5850.00	55.0 PK	78.2	-23.2	1.00 H	7	48.00	7.00
4	#5853.00	71.3 PK	78.2	-6.9	1.00 H	0	64.20	7.10
5	#5861.00	68.6 PK	74.0	-5.4	1.00 H	6	61.50	7.10
6	#5861.00	52.8 AV	54.0	-1.2	1.00 H	6	45.70	7.10
7	11590.00	60.1 PK	74.0	-13.9	1.17 H	84	41.20	18.90
8	11590.00	46.8 AV	54.0	-7.2	1.17 H	84	27.90	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	115.4 PK			1.08 V	1	74.70	40.70
2	*5795.00	105.8 AV			1.08 V	1	65.10	40.70
3	#5850.00	51.6 PK	78.2	-26.6	1.07 V	0	44.60	7.00
4	#5853.00	64.7 PK	78.2	-13.5	1.17 V	7	57.60	7.10
5	#5861.00	63.0 PK	74.0	-11.0	1.15 V	8	55.90	7.10
6	#5861.00	50.4 AV	54.0	-3.6	1.15 V	8	43.30	7.10
7	11590.00	59.6 PK	74.0	-14.4	1.00 V	216	40.70	18.90
8	11590.00	47.0 AV	54.0	-7.0	1.00 V	216	28.10	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (80MHz)

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5133.00	60.9 PK	74.0	-13.1	1.00 H	351	54.50	6.40
2	5133.00	52.9 AV	54.0	-1.1	1.00 H	351	46.50	6.40
3	#5714.00	69.2 PK	74.0	-4.8	1.00 H	0	62.20	7.00
4	#5714.00	52.8 AV	54.0	-1.2	1.00 H	0	45.80	7.00
5	#5722.00	71.7 PK	78.2	-6.5	1.00 H	2	64.70	7.00
6	#5725.00	54.9 PK	78.2	-23.3	1.02 H	0	47.80	7.10
7	*5775.00	109.1 PK			1.00 H	6	68.40	40.70
8	*5775.00	97.8 AV			1.00 H	6	57.10	40.70
9	11550.00	59.0 PK	74.0	-15.0	1.08 H	284	40.30	18.70
10	11550.00	45.4 AV	54.0	-8.6	1.08 H	284	26.70	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5133.00	60.1 PK	74.0	-13.9	1.00 V	348	53.70	6.40
2	5133.00	50.2 AV	54.0	-3.8	1.00 V	348	43.80	6.40
3	#5714.00	64.4 PK	74.0	-9.6	1.16 V	1	57.40	7.00
4	#5714.00	49.3 AV	54.0	-4.7	1.16 V	1	42.30	7.00
5	#5722.00	67.7 PK	78.2	-10.5	1.07 V	0	60.70	7.00
6	#5725.00	49.5 PK	78.2	-28.7	1.18 V	0	42.40	7.10
7	*5775.00	101.8 PK			1.18 V	355	61.10	40.70
8	*5775.00	92.9 AV			1.18 V	355	52.20	40.70
9	11550.00	58.7 PK	74.0	-15.3	1.00 V	255	40.00	18.70
10	11550.00	46.2 AV	54.0	-7.8	1.00 V	255	27.50	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Radio 3: PIFA antenna

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.8 PK	74.0	-14.2	1.37 H	311	53.40	6.40
2	5150.00	45.6 AV	54.0	-8.4	1.37 H	311	39.20	6.40
3	*5180.00	102.3 PK			1.00 H	292	62.40	39.90
4	*5180.00	92.6 AV			1.00 H	292	52.70	39.90
5	#10360.00	60.2 PK	74.0	-13.8	1.10 H	148	41.50	18.70
6	#10360.00	46.7 AV	54.0	-7.3	1.10 H	148	28.00	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.1 PK	74.0	-7.9	1.00 V	334	59.70	6.40
2	5150.00	49.5 AV	54.0	-4.5	1.00 V	334	43.10	6.40
3	*5180.00	109.8 PK			1.00 V	333	69.90	39.90
4	*5180.00	98.4 AV			1.00 V	333	58.50	39.90
5	#10360.00	59.7 PK	74.0	-14.3	1.02 V	131	41.00	18.70
6	#10360.00	46.6 AV	54.0	-7.4	1.02 V	131	27.90	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	104.6 PK			1.02 H	351	64.60	40.00
2	*5200.00	94.1 AV			1.02 H	351	54.10	40.00
3	#10400.00	59.8 PK	74.0	-14.2	1.05 H	272	40.80	19.00
4	#10400.00	46.9 AV	54.0	-7.1	1.05 H	272	27.90	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	109.0 PK			1.20 V	335	69.00	40.00
2	*5200.00	98.3 AV			1.20 V	335	58.30	40.00
3	#10400.00	60.5 PK	74.0	-13.5	1.00 V	95	41.50	19.00
4	#10400.00	46.9 AV	54.0	-7.1	1.00 V	95	27.90	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	106.5 PK			1.01 H	353	66.50	40.00
2	*5240.00	95.1 AV			1.01 H	353	55.10	40.00
3	5350.00	56.5 PK	74.0	-17.5	1.05 H	262	50.10	6.40
4	5350.00	43.8 AV	54.0	-10.2	1.05 H	262	37.40	6.40
5	#10480.00	59.9 PK	74.0	-14.1	1.16 H	275	40.70	19.20
6	#10480.00	47.4 AV	54.0	-6.6	1.16 H	275	28.20	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	109.1 PK			1.20 V	337	69.10	40.00
2	*5240.00	98.5 AV			1.20 V	337	58.50	40.00
3	5350.00	57.1 PK	74.0	-16.9	1.15 V	234	50.70	6.40
4	5350.00	43.6 AV	54.0	-10.4	1.15 V	234	37.20	6.40
5	#10480.00	59.8 PK	74.0	-14.2	1.02 V	63	40.60	19.20
6	#10480.00	47.3 AV	54.0	-6.7	1.02 V	63	28.10	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.0 PK	74.0	-14.0	1.30 H	318	53.60	6.40
2	5150.00	45.9 AV	54.0	-8.1	1.30 H	318	39.50	6.40
3	*5180.00	101.9 PK			1.48 H	292	62.00	39.90
4	*5180.00	92.1 AV			1.48 H	292	52.20	39.90
5	#10360.00	60.1 PK	74.0	-13.9	1.20 H	95	41.40	18.70
6	#10360.00	47.0 AV	54.0	-7.0	1.20 H	95	28.30	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	1.13 V	290	53.20	6.40
2	5150.00	46.0 AV	54.0	-8.0	1.13 V	290	39.60	6.40
3	*5180.00	108.3 PK			1.00 V	335	68.40	39.90
4	*5180.00	98.4 AV			1.00 V	335	58.50	39.90
5	#10360.00	60.0 PK	74.0	-14.0	1.02 V	256	41.30	18.70
6	#10360.00	47.2 AV	54.0	-6.8	1.02 V	256	28.50	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	104.3 PK			1.03 H	351	64.30	40.00
2	*5200.00	94.4 AV			1.03 H	351	54.40	40.00
3	#10400.00	60.1 PK	74.0	-13.9	1.17 H	83	41.10	19.00
4	#10400.00	47.5 AV	54.0	-6.5	1.17 H	83	28.50	19.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	109.0 PK			1.21 V	336	69.00	40.00
2	*5200.00	98.2 AV			1.21 V	336	58.20	40.00
3	#10400.00	59.9 PK	74.0	-14.1	1.05 V	223	40.90	19.00
4	#10400.00	46.3 AV	54.0	-7.7	1.05 V	223	27.30	19.00

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	105.9 PK			1.01 H	353	65.90	40.00
2	*5240.00	95.1 AV			1.01 H	353	55.10	40.00
3	5350.00	56.5 PK	74.0	-17.5	1.13 H	272	50.10	6.40
4	5350.00	44.6 AV	54.0	-9.4	1.13 H	272	38.20	6.40
5	#10480.00	60.6 PK	74.0	-13.4	1.07 H	280	41.40	19.20
6	#10480.00	47.5 AV	54.0	-6.5	1.07 H	280	28.30	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	108.5 PK			1.08 V	337	68.50	40.00
2	*5240.00	98.3 AV			1.08 V	337	58.30	40.00
3	5350.00	56.6 PK	74.0	-17.4	1.00 V	117	50.20	6.40
4	5350.00	44.5 AV	54.0	-9.5	1.00 V	117	38.10	6.40
5	#10480.00	59.8 PK	74.0	-14.2	1.03 V	262	40.60	19.20
6	#10480.00	46.6 AV	54.0	-7.4	1.03 V	262	27.40	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.2 PK	74.0	-9.8	1.25 H	290	57.80	6.40
2	5150.00	48.7 AV	54.0	-5.3	1.25 H	290	42.30	6.40
3	*5190.00	97.0 PK			1.47 H	292	57.10	39.90
4	*5190.00	87.1 AV			1.47 H	292	47.20	39.90
5	#10380.00	59.8 PK	74.0	-14.2	1.11 H	221	41.00	18.80
6	#10380.00	46.9 AV	54.0	-7.1	1.11 H	221	28.10	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.6 PK	74.0	-3.4	1.00 V	331	64.20	6.40
2	5150.00	52.7 AV	54.0	-1.3	1.00 V	331	46.30	6.40
3	*5190.00	103.6 PK			1.00 V	335	63.70	39.90
4	*5190.00	93.7 AV			1.00 V	335	53.80	39.90
5	#10380.00	60.2 PK	74.0	-13.8	1.00 V	85	41.40	18.80
6	#10380.00	46.9 AV	54.0	-7.1	1.00 V	85	28.10	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	101.5 PK			1.02 H	354	61.50	40.00
2	*5230.00	91.0 AV			1.02 H	354	51.00	40.00
3	5350.00	57.2 PK	74.0	-16.8	1.11 H	286	50.80	6.40
4	5350.00	44.5 AV	54.0	-9.5	1.11 H	286	38.10	6.40
5	#10420.00	60.1 PK	74.0	-13.9	1.16 H	53	41.20	18.90
6	#10420.00	46.9 AV	54.0	-7.1	1.16 H	53	28.00	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	105.1 PK			1.19 V	339	65.10	40.00
2	*5230.00	94.5 AV			1.19 V	339	54.50	40.00
3	5350.00	57.6 PK	74.0	-16.4	1.03 V	72	51.20	6.40
4	5350.00	44.5 AV	54.0	-9.5	1.03 V	72	38.10	6.40
5	#10420.00	60.2 PK	74.0	-13.8	1.00 V	26	41.30	18.90
6	#10420.00	47.4 AV	54.0	-6.6	1.00 V	26	28.50	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11a

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	71.4 PK	74.0	-2.6	1.16 H	2	64.40	7.00
2	#5714.00	50.4 AV	54.0	-3.6	1.16 H	2	43.40	7.00
3	#5722.00	76.4 PK	78.2	-1.8	1.25 H	4	69.40	7.00
4	#5725.00	76.1 PK	78.2	-2.1	1.25 H	4	69.00	7.10
5	*5745.00	107.0 PK			1.06 H	19	66.40	40.60
6	*5745.00	96.8 AV			1.06 H	19	56.20	40.60
7	11490.00	61.0 PK	74.0	-13.0	1.19 H	179	42.30	18.70
8	11490.00	47.8 AV	54.0	-6.2	1.19 H	179	29.10	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	72.4 PK	74.0	-1.6	1.08 V	49	65.40	7.00
2	#5714.00	51.2 AV	54.0	-2.8	1.08 V	49	44.20	7.00
3	#5722.00	77.0 PK	78.2	-1.2	1.10 V	49	70.00	7.00
4	#5725.00	76.6 PK	78.2	-1.6	1.10 V	49	69.50	7.10
5	*5745.00	109.1 PK			1.00 V	354	68.50	40.60
6	*5745.00	97.9 AV			1.00 V	354	57.30	40.60
7	11490.00	61.3 PK	74.0	-12.7	1.18 V	28	42.60	18.70
8	11490.00	48.2 AV	54.0	-5.8	1.18 V	28	29.50	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	70.6 PK	74.0	-3.4	1.06 H	23	63.60	7.00
2	#5714.00	50.1 AV	54.0	-3.9	1.06 H	23	43.10	7.00
3	*5785.00	113.6 PK			1.25 H	19	72.90	40.70
4	*5785.00	103.6 AV			1.25 H	19	62.90	40.70
5	11570.00	62.3 PK	74.0	-11.7	1.57 H	23	43.50	18.80
6	11570.00	49.3 AV	54.0	-4.7	1.57 H	23	30.50	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	72.7 PK	74.0	-1.3	1.09 V	48	65.70	7.00
2	#5714.00	51.0 AV	54.0	-3.0	1.09 V	48	44.00	7.00
3	*5785.00	116.9 PK			1.28 V	50	76.20	40.70
4	*5785.00	105.7 AV			1.28 V	50	65.00	40.70
5	11507.00	61.0 PK	74.0	-13.0	1.18 V	58	42.30	18.70
6	11507.00	47.8 AV	54.0	-6.2	1.18 V	58	29.10	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	111.0 PK			1.25 H	19	70.30	40.70
2	*5825.00	100.1 AV			1.25 H	19	59.40	40.70
3	#5850.00	75.9 PK	78.2	-2.3	1.44 H	22	68.90	7.00
4	#5853.00	76.1 PK	78.2	-2.1	1.44 H	22	69.00	7.10
5	#5861.00	69.6 PK	74.0	-4.4	1.44 H	19	62.50	7.10
6	#5861.00	50.9 AV	54.0	-3.1	1.44 H	19	43.80	7.10
7	11650.00	61.7 PK	74.0	-12.3	1.50 H	19	42.50	19.20
8	11650.00	48.7 AV	54.0	-5.3	1.50 H	19	29.50	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	110.9 PK			1.09 V	7	70.20	40.70
2	*5825.00	100.1 AV			1.09 V	7	59.40	40.70
3	#5850.00	76.0 PK	78.2	-2.2	1.03 V	65	69.00	7.00
4	#5853.00	76.9 PK	78.2	-1.3	1.03 V	65	69.80	7.10
5	#5861.00	71.8 PK	74.0	-2.2	1.18 V	66	64.70	7.10
6	#5861.00	50.7 AV	54.0	-3.3	1.18 V	66	43.60	7.10
7	11650.00	61.4 PK	74.0	-12.6	1.09 V	10	42.20	19.20
8	11650.00	48.3 AV	54.0	-5.7	1.09 V	10	29.10	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT20)

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	67.9 PK	74.0	-6.1	1.24 H	4	60.90	7.00
2	#5714.00	50.1 AV	54.0	-3.9	1.24 H	4	43.10	7.00
3	#5722.00	76.9 PK	78.2	-1.3	1.24 H	6	69.90	7.00
4	#5725.00	76.1 PK	78.2	-2.1	1.24 H	6	69.00	7.10
5	*5745.00	107.1 PK			1.24 H	17	66.50	40.60
6	*5745.00	97.1 AV			1.24 H	17	56.50	40.60
7	11490.00	60.2 PK	74.0	-13.8	1.34 H	73	41.50	18.70
8	11490.00	47.0 AV	54.0	-7.0	1.34 H	73	28.30	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	71.3 PK	74.0	-2.7	1.19 V	51	64.30	7.00
2	#5714.00	52.0 AV	54.0	-2.0	1.19 V	51	45.00	7.00
3	#5722.00	76.5 PK	78.2	-1.7	1.17 V	49	69.50	7.00
4	#5725.00	76.0 PK	78.2	-2.2	1.17 V	49	68.90	7.10
5	*5745.00	108.7 PK			1.13 V	66	68.10	40.60
6	*5745.00	98.1 AV			1.13 V	66	57.50	40.60
7	11490.00	60.5 PK	74.0	-13.5	1.23 V	354	41.80	18.70
8	11490.00	47.2 AV	54.0	-6.8	1.23 V	354	28.50	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	69.2 PK	74.0	-4.8	1.06 H	21	62.20	7.00
2	#5714.00	48.8 AV	54.0	-5.2	1.06 H	21	41.80	7.00
3	*5785.00	113.6 PK			1.24 H	18	72.90	40.70
4	*5785.00	103.6 AV			1.24 H	18	62.90	40.70
5	11570.00	61.4 PK	74.0	-12.6	4.00 H	60	42.60	18.80
6	11570.00	48.4 AV	54.0	-5.6	4.00 H	60	29.60	18.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	72.5 PK	74.0	-1.5	1.11 V	55	65.50	7.00
2	#5714.00	51.0 AV	54.0	-3.0	1.11 V	55	44.00	7.00
3	*5785.00	113.8 PK			1.00 V	4	73.10	40.70
4	*5785.00	103.9 AV			1.00 V	4	63.20	40.70
5	11570.00	61.2 PK	74.0	-12.8	1.00 V	358	42.40	18.80
6	11570.00	47.3 AV	54.0	-6.7	1.00 V	358	28.50	18.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	110.3 PK			1.33 H	19	69.60	40.70
2	*5825.00	100.2 AV			1.33 H	19	59.50	40.70
3	#5850.00	76.0 PK	78.2	-2.2	1.23 H	23	69.00	7.00
4	#5853.00	76.6 PK	78.2	-1.6	1.23 H	23	69.50	7.10
5	#5861.00	72.2 PK	74.0	-1.8	1.22 H	6	65.10	7.10
6	#5861.00	50.3 AV	54.0	-3.7	1.22 H	6	43.20	7.10
7	11650.00	61.4 PK	74.0	-12.6	1.44 H	22	42.20	19.20
8	11650.00	48.3 AV	54.0	-5.7	1.44 H	22	29.10	19.20
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	110.5 PK			1.09 V	65	69.80	40.70
2	*5825.00	100.7 AV			1.09 V	65	60.00	40.70
3	#5850.00	75.0 PK	78.2	-3.2	1.08 V	60	68.00	7.00
4	#5852.00	75.5 PK	78.2	-2.7	1.08 V	60	68.40	7.10
5	#5861.00	72.7 PK	74.0	-1.3	1.08 V	64	65.60	7.10
6	#5861.00	51.1 AV	54.0	-2.9	1.08 V	64	44.00	7.10
7	11650.00	61.4 PK	74.0	-12.6	1.00 V	359	42.20	19.20
8	11650.00	48.0 AV	54.0	-6.0	1.00 V	359	28.80	19.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n (HT40)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	69.0 PK	74.0	-5.0	1.15 H	3	62.00	7.00
2	#5714.00	51.8 AV	54.0	-2.2	1.15 H	3	44.80	7.00
3	#5720.00	69.7 PK	78.2	-8.5	1.15 H	5	62.70	7.00
4	#5725.00	69.1 PK	78.2	-9.1	1.15 H	5	62.00	7.10
5	*5755.00	100.6 PK			1.12 H	352	59.90	40.70
6	*5755.00	90.3 AV			1.12 H	352	49.60	40.70
7	11510.00	67.4 PK	74.0	-6.6	1.19 H	48	48.70	18.70
8	11510.00	46.8 AV	54.0	-7.2	1.19 H	48	28.10	18.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	71.3 PK	74.0	-2.7	1.09 V	50	64.30	7.00
2	#5714.00	52.9 AV	54.0	-1.1	1.09 V	50	45.90	7.00
3	#5718.00	72.0 PK	78.2	-6.2	1.09 V	48	65.00	7.00
4	#5725.00	72.1 PK	78.2	-6.1	1.08 V	48	65.00	7.10
5	*5755.00	101.8 PK			1.16 V	51	61.10	40.70
6	*5755.00	91.9 AV			1.16 V	51	51.20	40.70
7	11510.00	60.4 PK	74.0	-13.6	1.11 V	36	41.70	18.70
8	11510.00	46.9 AV	54.0	-7.1	1.11 V	36	28.20	18.70

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	70.7 PK	74.0	-3.3	1.07 H	16	63.70	7.00
2	#5714.00	51.7 AV	54.0	-2.3	1.07 H	16	44.70	7.00
3	#5722.00	76.5 PK	78.2	-1.7	1.07 H	19	69.50	7.00
4	#5725.00	76.1 PK	78.2	-2.1	1.07 H	19	69.00	7.10
5	*5795.00	108.5 PK			1.44 H	17	67.80	40.70
6	*5795.00	97.8 AV			1.44 H	17	57.10	40.70
7	#5850.00	73.0 PK	78.2	-5.2	1.43 H	20	66.00	7.00
8	#5855.00	73.3 PK	78.2	-4.9	1.43 H	20	66.20	7.10
9	#5861.00	69.4 PK	74.0	-4.6	1.43 H	19	62.30	7.10
10	#5861.00	51.4 AV	54.0	-2.6	1.43 H	19	44.30	7.10
11	11590.00	61.0 PK	74.0	-13.0	1.50 H	36	42.10	18.90
12	11590.00	47.9 AV	54.0	-6.1	1.50 H	36	29.00	18.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5714.00	72.1 PK	74.0	-1.9	1.00 V	66	65.10	7.00
2	#5714.00	52.6 AV	54.0	-1.4	1.00 V	66	45.60	7.00
3	#5722.00	76.1 PK	78.2	-2.1	1.00 V	66	69.10	7.00
4	#5725.00	76.1 PK	78.2	-2.1	1.00 V	66	69.00	7.10
5	*5795.00	108.7 PK			1.01 V	64	68.00	40.70
6	*5795.00	98.4 AV			1.01 V	64	57.70	40.70
7	#5850.00	73.0 PK	78.2	-5.2	1.10 V	66	66.00	7.00
8	#5855.00	73.9 PK	78.2	-4.3	1.10 V	66	66.80	7.10
9	#5861.00	70.0 PK	74.0	-4.0	1.09 V	64	62.90	7.10
10	#5861.00	52.1 AV	54.0	-1.9	1.09 V	64	45.00	7.10
11	11590.00	60.0 PK	74.0	-14.0	1.20 V	354	41.10	18.90
12	11590.00	46.9 AV	54.0	-7.1	1.20 V	354	28.00	18.90

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

BELOW 1GHz WORST-CASE DATA

Radio 2: Dipole antenna

802.11n (HT20)

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	61.01	33.9 QP	40.0	-6.1	1.00 H	130	48.80	-14.90
2	158.22	41.6 QP	43.5	-1.9	2.00 H	231	55.20	-13.60
3	204.89	36.8 QP	43.5	-6.7	1.49 H	100	53.30	-16.50
4	397.37	31.2 QP	46.0	-14.8	2.00 H	10	41.40	-10.20
5	799.84	34.3 QP	46.0	-11.7	1.49 H	15	36.10	-1.80
6	1000.00	39.4 QP	54.0	-14.6	1.49 H	15	38.00	1.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	47.40	38.7 QP	40.0	-1.3	1.00 V	321	53.30	-14.60
2	66.84	34.4 QP	40.0	-5.6	1.50 V	310	50.00	-15.60
3	148.50	39.0 QP	43.5	-4.5	1.00 V	129	52.80	-13.80
4	204.89	38.5 QP	43.5	-5.0	1.00 V	14	55.00	-16.50
5	354.60	36.5 QP	46.0	-9.5	1.50 V	7	47.70	-11.20
6	799.84	39.2 QP	46.0	-6.8	1.00 V	4	41.00	-1.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Radio 2: Dipole antenna

802.11a

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	32.9 QP	40.0	-7.1	1.99 H	113	47.40	-14.50
2	152.39	41.6 QP	43.5	-1.9	1.99 H	248	55.30	-13.70
3	162.11	39.7 QP	43.5	-3.8	1.49 H	222	53.40	-13.70
4	204.89	36.6 QP	43.5	-6.9	1.00 H	102	53.10	-16.50
5	364.32	32.2 QP	46.0	-13.8	1.99 H	349	43.00	-10.80
6	799.84	36.5 QP	46.0	-9.5	1.49 H	6	38.30	-1.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	49.34	38.9 QP	40.0	-1.1	1.49 V	326	53.30	-14.40
2	66.84	34.9 QP	40.0	-5.1	1.00 V	9	50.50	-15.60
3	146.56	39.1 QP	43.5	-4.4	1.00 V	141	53.00	-13.90
4	204.89	37.8 QP	43.5	-5.7	1.00 V	15	54.30	-16.50
5	350.71	36.7 QP	46.0	-9.3	1.49 V	15	47.90	-11.20
6	799.84	36.2 QP	46.0	-9.8	1.00 V	9	38.00	-1.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Radio 2: Patch antenna

802.11a

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	35.73	36.6 QP	40.0	-3.4	1.00 H	333	52.20	-15.60
2	97.95	33.0 QP	43.5	-10.5	1.99 H	118	51.90	-18.90
3	156.15	42.1 QP	43.5	-1.4	2.00 H	252	55.70	-13.60
4	187.39	42.4 QP	43.5	-1.1	1.50 H	90	58.40	-16.00
5	237.94	33.4 QP	46.0	-12.6	1.50 H	293	48.10	-14.70
6	300.16	32.7 QP	46.0	-13.3	1.00 H	233	44.70	-12.00
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	36.88	38.0 QP	40.0	-2.0	1.00 V	58	53.40	-15.40
2	154.13	42.5 QP	43.5	-1.0	1.00 V	129	56.10	-13.60
3	189.33	40.2 QP	43.5	-3.3	1.00 V	90	56.20	-16.00
4	300.16	33.1 QP	46.0	-12.9	1.49 V	184	45.10	-12.00
5	461.53	32.6 QP	46.0	-13.4	1.00 V	244	41.30	-8.70
6	799.84	38.2 QP	46.0	-7.8	1.99 V	113	40.00	-1.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Radio 2: Patch antenna

802.11n (HT20)

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	33.5 QP	40.0	-6.5	1.99 H	290	48.00	-14.50
2	105.73	32.8 QP	43.5	-10.7	1.99 H	105	50.60	-17.80
3	146.56	40.9 QP	43.5	-2.6	1.99 H	240	54.80	-13.90
4	193.22	42.2 QP	43.5	-1.3	1.50 H	95	58.50	-16.30
5	375.98	30.0 QP	46.0	-16.0	1.00 H	144	40.50	-10.50
6	1000.00	34.4 QP	54.0	-19.6	1.50 H	124	33.00	1.40
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	55.18	38.5 QP	40.0	-1.5	1.01 V	16	52.90	-14.40
2	146.56	41.1 QP	43.5	-2.4	1.01 V	115	55.00	-13.90
3	214.61	29.9 QP	43.5	-13.6	1.01 V	16	46.00	-16.10
4	401.26	30.3 QP	46.0	-15.7	1.50 V	6	40.50	-10.20
5	500.42	30.0 QP	46.0	-16.0	1.01 V	103	38.20	-8.20
6	1000.00	36.9 QP	54.0	-17.1	1.50 V	241	35.50	1.40

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Radio 2: Sector antenna

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	49.34	32.0 QP	40.0	-8.0	1.99 H	81	46.40	-14.40
2	108.91	42.3 QP	43.5	-1.2	1.50 H	164	59.60	-17.30
3	141.44	41.4 QP	43.5	-2.1	1.99 H	252	55.70	-14.30
4	162.14	41.7 QP	43.5	-1.8	1.50 H	279	55.40	-13.70
5	232.11	33.7 QP	46.0	-12.3	1.51 H	67	49.30	-15.60
6	420.70	32.3 QP	46.0	-13.7	1.00 H	98	42.00	-9.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	39.0 QP	40.0	-1.0	1.01 V	204	54.90	-15.90
2	49.15	38.2 QP	40.0	-1.8	1.00 V	45	52.60	-14.40
3	107.67	38.5 QP	43.5	-5.0	1.01 V	132	56.00	-17.50
4	160.17	38.6 QP	43.5	-4.9	1.01 V	102	52.10	-13.50
5	179.61	41.9 QP	43.5	-1.6	1.01 V	19	56.80	-14.90
6	198.34	42.3 QP	43.5	-1.2	1.00 V	39	58.80	-16.50

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Radio 2: Sector antenna

802.11n (HT20)

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	108.40	42.5 QP	43.5	-1.0	1.50 H	157	59.90	-17.40
2	142.45	42.0 QP	43.5	-1.5	1.99 H	276	56.20	-14.20
3	165.59	42.4 QP	43.5	-1.1	1.49 H	285	56.20	-13.80
4	197.11	35.2 QP	43.5	-8.3	1.00 H	303	51.70	-16.50
5	234.05	33.8 QP	46.0	-12.2	1.50 H	272	49.00	-15.20
6	416.81	32.1 QP	46.0	-13.9	1.00 H	100	41.90	-9.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	51.29	38.8 QP	40.0	-1.2	1.00 V	24	53.20	-14.40
2	107.67	38.6 QP	43.5	-4.9	1.00 V	146	56.10	-17.50
3	166.00	40.8 QP	43.5	-2.7	1.00 V	66	54.70	-13.90
4	177.67	42.5 QP	43.5	-1.0	1.00 V	5	57.20	-14.70
5	199.05	41.6 QP	43.5	-1.9	1.00 V	31	58.10	-16.50
6	500.42	34.0 QP	46.0	-12.0	1.00 V	32	42.20	-8.20

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Radio 3: PIFA antenna

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	33.2 QP	40.0	-6.8	1.99 H	71	47.70	-14.50
2	149.06	41.5 QP	43.5	-2.0	2.00 H	240	55.20	-13.70
3	162.11	39.8 QP	43.5	-3.7	1.99 H	246	53.50	-13.70
4	204.89	37.3 QP	43.5	-6.2	1.49 H	85	53.80	-16.50
5	348.76	32.2 QP	46.0	-13.8	1.99 H	341	43.50	-11.30
6	799.84	37.2 QP	46.0	-8.8	1.49 H	7	39.00	-1.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.84	38.8 QP	40.0	-1.2	1.50 V	128	54.70	-15.90
2	66.84	34.9 QP	40.0	-5.1	1.00 V	16	50.50	-15.60
3	148.50	40.6 QP	43.5	-2.9	1.00 V	144	54.40	-13.80
4	204.89	37.8 QP	43.5	-5.7	1.00 V	16	54.30	-16.50
5	344.87	31.4 QP	46.0	-14.6	1.00 V	16	42.70	-11.30
6	799.84	35.5 QP	46.0	-10.5	1.50 V	250	37.30	-1.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Radio 3: PIFA antenna

802.11a

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	32.8 QP	40.0	-7.2	2.00 H	5	47.30	-14.50
2	150.45	41.9 QP	43.5	-1.6	1.00 H	245	55.60	-13.70
3	162.11	39.5 QP	43.5	-4.0	1.50 H	246	53.20	-13.70
4	204.89	37.2 QP	43.5	-6.3	1.00 H	94	53.70	-16.50
5	350.71	32.4 QP	46.0	-13.6	2.00 H	334	43.60	-11.20
6	799.84	36.7 QP	46.0	-9.3	1.50 H	16	38.50	-1.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.45	38.2 QP	40.0	-1.8	1.49 V	220	52.90	-14.70
2	64.90	35.5 QP	40.0	-4.5	1.00 V	339	50.80	-15.30
3	140.72	39.9 QP	43.5	-3.6	1.00 V	136	54.20	-14.30
4	204.89	38.0 QP	43.5	-5.5	1.00 V	5	54.50	-16.50
5	346.82	31.2 QP	46.0	-14.8	1.49 V	352	42.50	-11.30
6	799.84	36.3 QP	46.0	-9.7	1.00 V	12	38.10	-1.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Apr. 24, 2014	Apr. 23, 2015
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 27, 2013	Dec. 26, 2014
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 23, 2013	Dec. 22, 2014
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 10, 2014	Jul. 09, 2015
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 2.
3. The VCCI Site Registration No. is C-2047.

4.2.3 TEST PROCEDURES

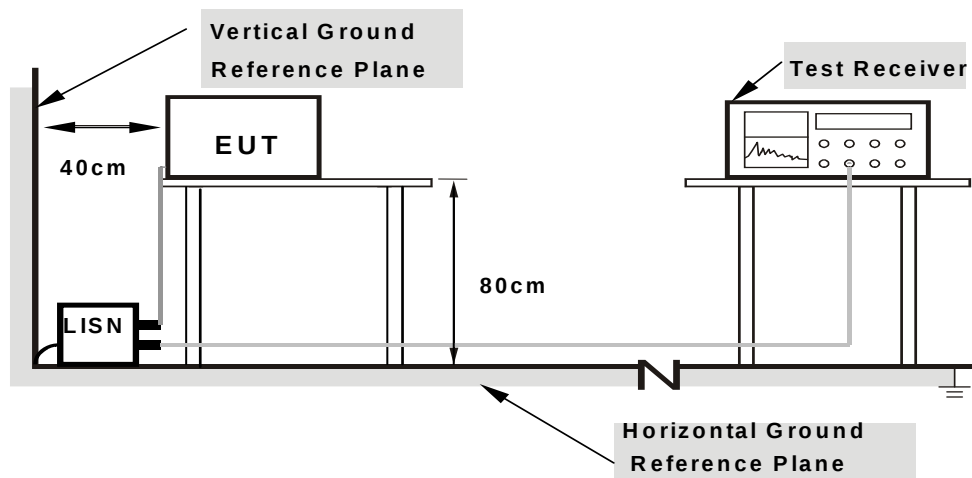
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



- Note:**
- Support units were connected to second LISN.
 - Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.7.

4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA :

Radio 2: Dipole antenna

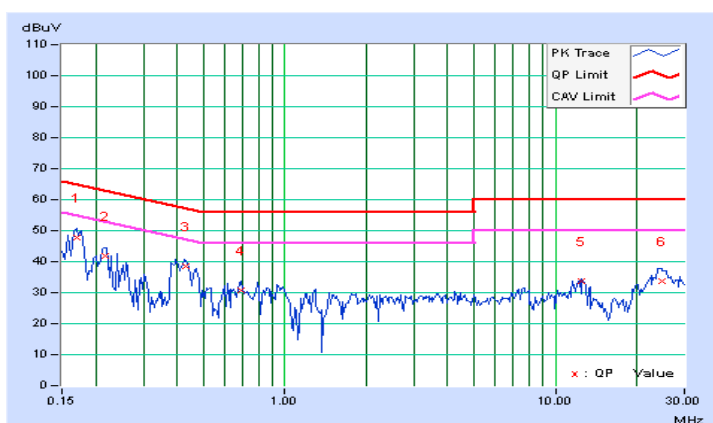
802.11n (HT20)

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 40		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.27	47.57	37.11	47.84	37.38	64.98	54.98	-17.14	-17.60
2	0.21776	0.28	41.73	33.80	42.01	34.08	62.90	52.90	-20.89	-18.82
3	0.42853	0.30	38.09	34.13	38.39	34.43	57.28	47.28	-18.89	-12.85
4	0.68516	0.32	30.48	24.39	30.80	24.71	56.00	46.00	-25.20	-21.29
5	12.53516	0.52	33.08	32.31	33.60	32.83	60.00	50.00	-26.40	-17.17
6	24.68750	0.54	33.06	27.55	33.60	28.09	60.00	50.00	-26.40	-21.91

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

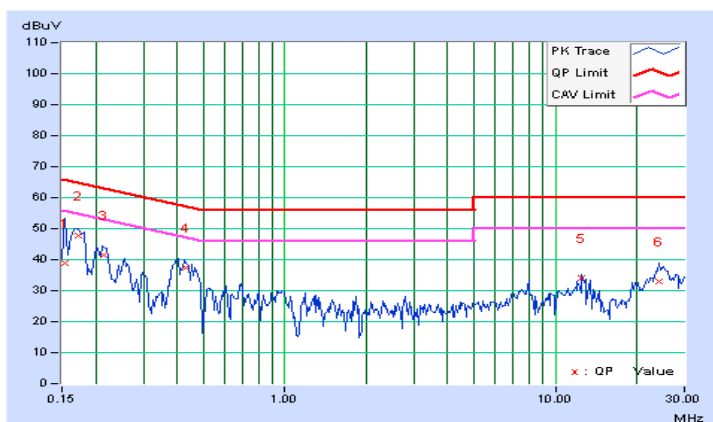


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 40		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.27	38.60	17.61	38.87	17.88	65.79	55.79	-26.92	-37.91
2	0.17344	0.27	47.48	38.27	47.75	38.54	64.79	54.79	-17.04	-16.25
3	0.21505	0.28	41.37	33.56	41.65	33.84	63.01	53.01	-21.36	-19.17
4	0.42980	0.30	37.17	33.60	37.47	33.90	57.26	47.26	-19.78	-13.35
5	12.53516	0.54	33.37	32.67	33.91	33.21	60.00	50.00	-26.09	-16.79
6	24.21484	0.58	32.22	26.86	32.80	27.44	60.00	50.00	-27.20	-22.56

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



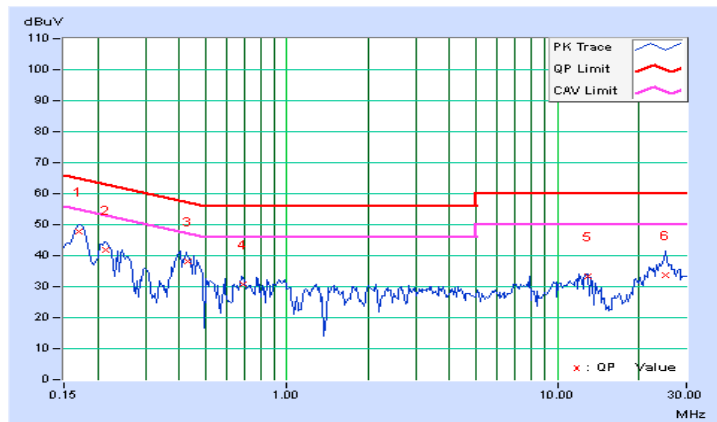
802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 165		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17089	0.27	47.57	38.06	47.84	38.33	64.92	54.92	-17.08	-16.59
2	0.21505	0.28	41.49	34.25	41.77	34.53	63.01	53.01	-21.24	-18.48
3	0.42980	0.30	37.96	34.37	38.26	34.67	57.26	47.26	-18.99	-12.58
4	0.68507	0.32	30.52	24.23	30.84	24.55	56.00	46.00	-25.16	-21.45
5	13.01563	0.52	32.68	32.00	33.20	32.52	60.00	50.00	-26.80	-17.48
6	25.01953	0.53	32.99	27.56	33.52	28.09	60.00	50.00	-26.48	-21.91

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

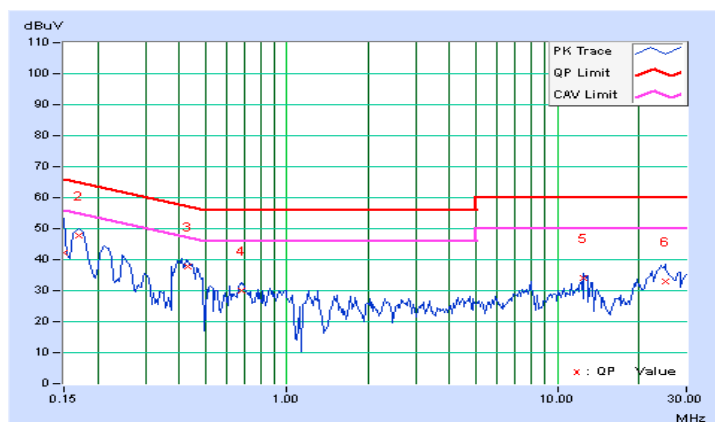


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 165		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.26	41.78	16.13	42.04	16.39	66.00	56.00	-23.96	-39.61
2	0.17081	0.27	47.39	37.70	47.66	37.97	64.92	54.92	-17.26	-16.95
3	0.42911	0.30	37.32	33.46	37.62	33.76	57.27	47.27	-19.65	-13.51
4	0.68370	0.32	29.82	23.35	30.14	23.67	56.00	46.00	-25.86	-22.33
5	12.53516	0.54	33.35	32.81	33.89	33.35	60.00	50.00	-26.11	-16.65
6	24.99219	0.57	32.43	27.21	33.00	27.78	60.00	50.00	-27.00	-22.22

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



Radio 2: Patch antenna

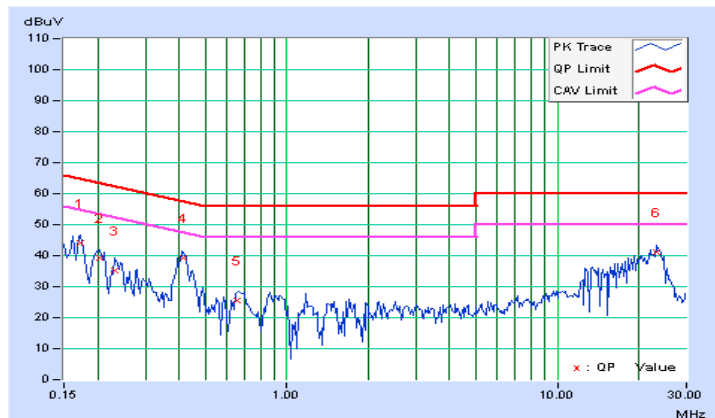
802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 40		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17344	0.27	43.96	32.89	44.23	33.16	64.79	54.79	-20.56	-21.63
2	0.20469	0.28	38.97	28.85	39.25	29.13	63.42	53.42	-24.17	-24.29
3	0.23203	0.28	34.80	24.07	35.08	24.35	62.38	52.38	-27.29	-28.02
4	0.41384	0.30	39.05	34.69	39.35	34.99	57.57	47.57	-18.22	-12.58
5	0.65462	0.32	25.19	22.23	25.51	22.55	56.00	46.00	-30.49	-23.45
6	23.14211	0.56	40.63	39.56	41.19	40.12	60.00	50.00	-18.81	-9.88

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

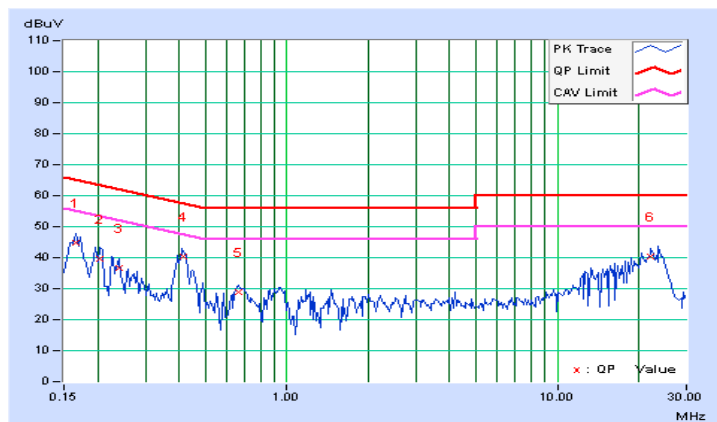


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 40		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.27	44.72	33.27	44.99	33.54	65.18	55.18	-20.19	-21.64
2	0.20469	0.28	39.48	30.65	39.76	30.93	63.42	53.42	-23.66	-22.49
3	0.23984	0.28	36.55	27.49	36.83	27.77	62.10	52.10	-25.27	-24.33
4	0.41574	0.30	40.20	36.48	40.50	36.78	57.53	47.53	-17.03	-10.75
5	0.66172	0.32	28.55	23.25	28.87	23.57	56.00	46.00	-27.13	-22.43
6	22.12891	0.61	39.94	36.19	40.55	36.80	60.00	50.00	-19.45	-13.20

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



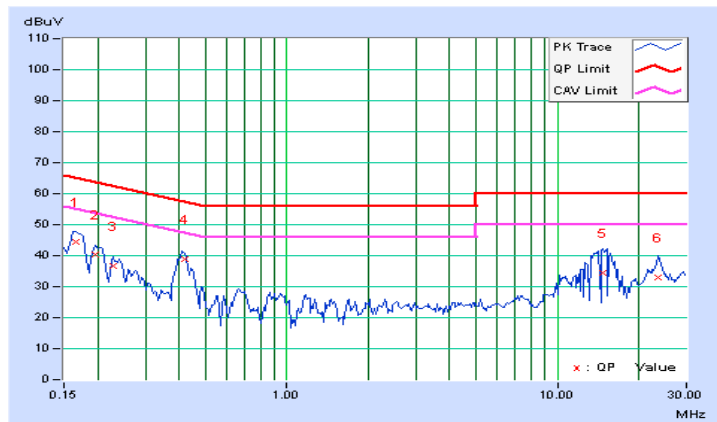
802.11n (HT20)

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 157		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16562	0.27	44.27	32.29	44.54	32.56	65.18	55.18	-20.64	-22.62
2	0.19687	0.28	40.02	28.17	40.30	28.45	63.74	53.74	-23.44	-25.29
3	0.22812	0.28	36.43	25.21	36.71	25.49	62.52	52.52	-25.81	-27.03
4	0.41741	0.30	38.63	35.11	38.93	35.41	57.50	47.50	-18.57	-12.09
5	14.75000	0.53	33.75	33.68	34.28	34.21	60.00	50.00	-25.72	-15.79
6	23.56641	0.55	32.33	27.00	32.88	27.55	60.00	50.00	-27.12	-22.45

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

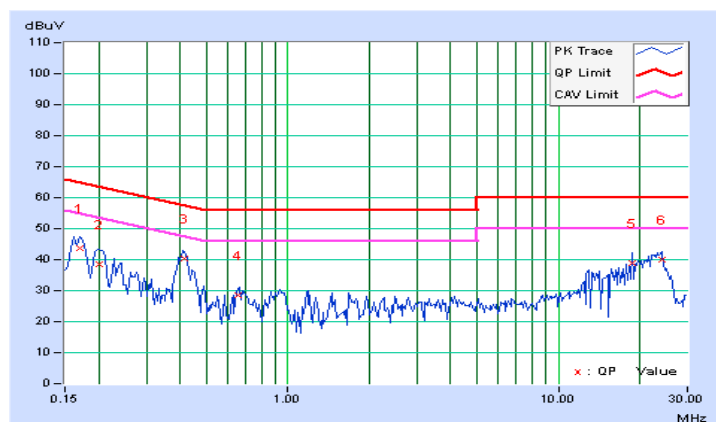


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 157		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	0.27	43.52	33.61	43.79	33.88	64.98	54.98	-21.19	-21.10
2	0.20078	0.28	38.28	28.45	38.56	28.73	63.58	53.58	-25.02	-24.85
3	0.41614	0.30	40.16	36.62	40.46	36.92	57.52	47.52	-17.06	-10.60
4	0.65390	0.32	28.05	24.73	28.37	25.05	56.00	46.00	-27.63	-20.95
5	18.82031	0.62	38.30	37.82	38.92	38.44	60.00	50.00	-21.08	-11.56
6	24.16033	0.58	39.28	37.33	39.86	37.91	60.00	50.00	-20.14	-12.09

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



Radio 2: Sector antenna

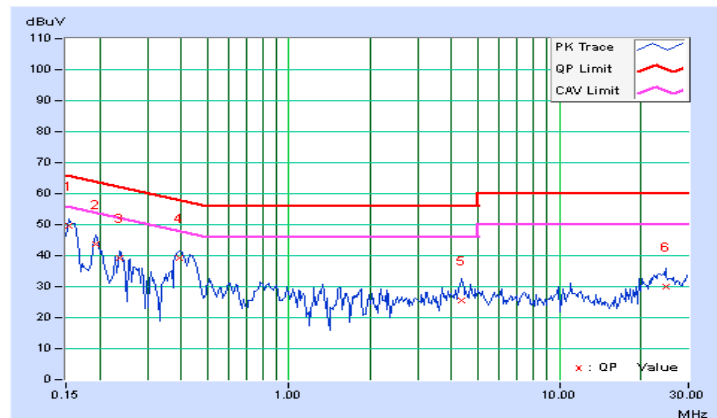
802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 36		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.27	49.19	38.73	49.46	39.00	65.79	55.79	-16.33	-16.79
2	0.19297	0.28	43.38	35.01	43.66	35.29	63.91	53.91	-20.25	-18.62
3	0.23594	0.28	38.82	31.26	39.10	31.54	62.24	52.24	-23.13	-20.69
4	0.39219	0.30	39.00	33.58	39.30	33.88	58.02	48.02	-18.72	-14.14
5	4.35938	0.43	24.97	19.51	25.40	19.94	56.00	46.00	-30.60	-26.06
6	24.76953	0.54	29.52	24.69	30.06	25.23	60.00	50.00	-29.94	-24.77

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

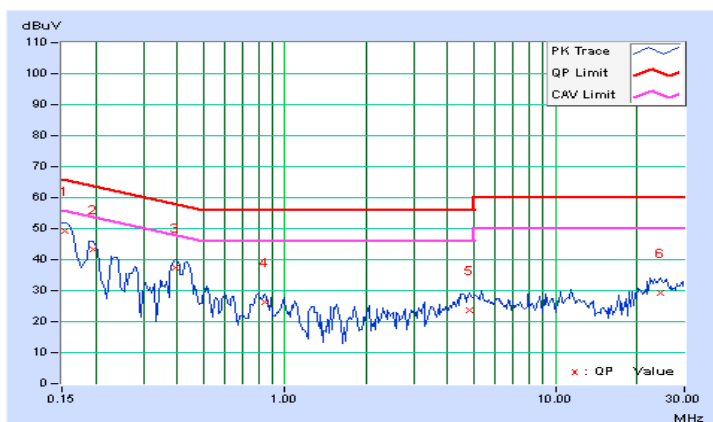


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 36		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15402	0.27	48.92	38.39	49.19	38.66	65.78	55.78	-16.59	-17.12
2	0.19687	0.28	42.91	35.05	43.19	35.33	63.74	53.74	-20.55	-18.41
3	0.39219	0.30	37.19	31.57	37.49	31.87	58.02	48.02	-20.53	-16.15
4	0.84141	0.33	25.99	18.71	26.32	19.04	56.00	46.00	-29.68	-26.96
5	4.84375	0.45	23.22	18.29	23.67	18.74	56.00	46.00	-32.33	-27.26
6	24.45703	0.57	28.83	24.06	29.40	24.63	60.00	50.00	-30.60	-25.37

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



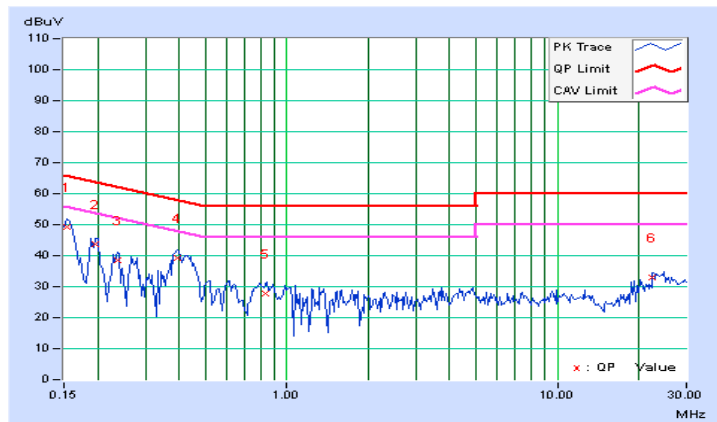
802.11n (HT20)

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 157		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	0.27	48.99	38.35	49.26	38.62	65.79	55.79	-16.53	-17.17
2	0.19687	0.28	43.34	36.19	43.62	36.47	63.74	53.74	-20.12	-17.27
3	0.23594	0.28	38.24	30.97	38.52	31.25	62.24	52.24	-23.71	-20.98
4	0.39219	0.30	39.04	33.32	39.34	33.62	58.02	48.02	-18.68	-14.40
5	0.83344	0.33	27.61	20.66	27.94	20.99	56.00	46.00	-28.06	-25.01
6	22.45703	0.56	32.37	28.53	32.93	29.09	60.00	50.00	-27.07	-20.91

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

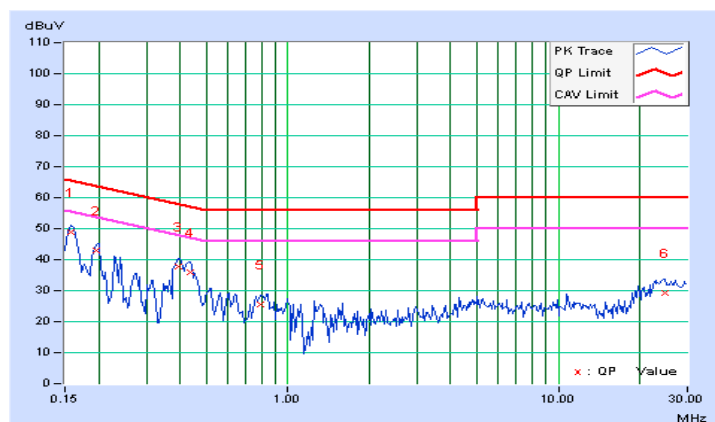


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 157		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	0.27	48.48	38.92	48.75	39.19	65.58	55.58	-16.83	-16.39
2	0.19696	0.28	42.67	35.07	42.95	35.35	63.74	53.74	-20.79	-18.39
3	0.39219	0.30	37.33	32.06	37.63	32.36	58.02	48.02	-20.39	-15.66
4	0.43516	0.30	35.73	30.70	36.03	31.00	57.15	47.15	-21.12	-16.15
5	0.79453	0.33	25.31	17.53	25.64	17.86	56.00	46.00	-30.36	-28.14
6	24.81250	0.57	28.64	23.93	29.21	24.50	60.00	50.00	-30.79	-25.50

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



Radio 3: PIFA antenna

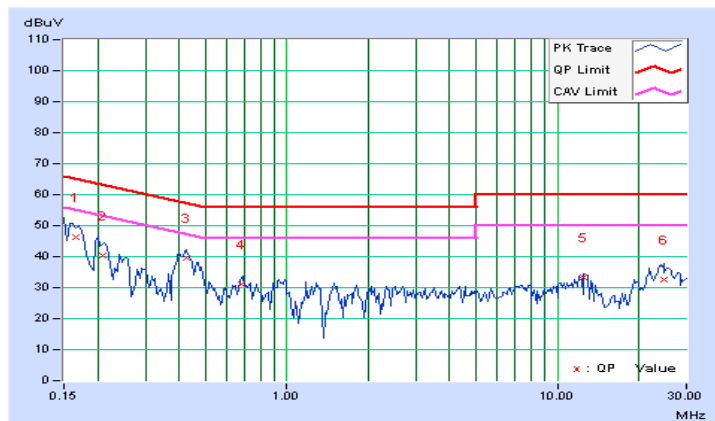
802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 36		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16680	0.27	46.01	35.54	46.28	35.81	65.12	55.12	-18.84	-19.31
2	0.20968	0.28	40.24	31.13	40.52	31.41	63.22	53.22	-22.70	-21.81
3	0.42726	0.30	39.51	36.00	39.81	36.30	57.31	47.31	-17.49	-11.00
4	0.68261	0.32	30.78	26.61	31.10	26.93	56.00	46.00	-24.90	-19.07
5	12.53516	0.52	32.85	31.94	33.37	32.46	60.00	50.00	-26.63	-17.54
6	24.91797	0.54	31.88	26.83	32.42	27.37	60.00	50.00	-27.58	-22.63

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

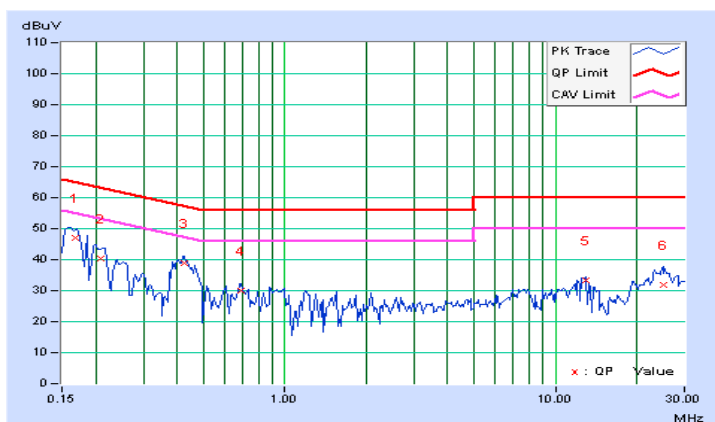


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 36		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16851	0.27	46.68	36.15	46.95	36.42	65.03	55.03	-18.08	-18.61
2	0.20968	0.28	39.92	30.59	40.20	30.87	63.22	53.22	-23.02	-22.35
3	0.42716	0.30	38.59	35.29	38.89	35.59	57.31	47.31	-18.42	-11.72
4	0.68516	0.32	29.67	24.69	29.99	25.01	56.00	46.00	-26.01	-20.99
5	13.01563	0.55	32.88	32.75	33.43	33.30	60.00	50.00	-26.57	-16.70
6	25.22266	0.56	31.15	25.81	31.71	26.37	60.00	50.00	-28.29	-23.63

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



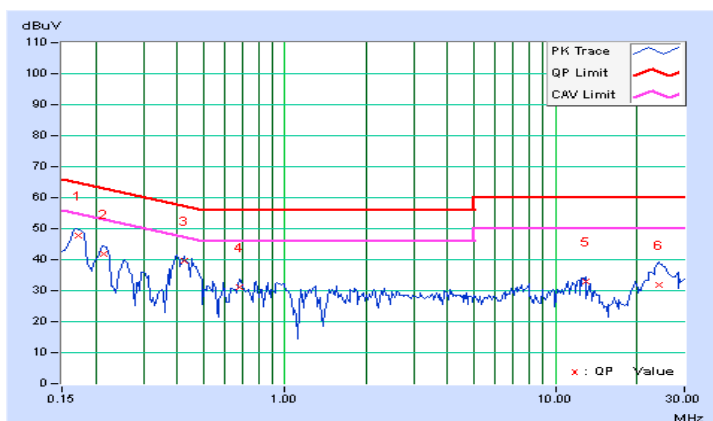
802.11a

PHASE	Line 1	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 157		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17208	0.27	47.49	38.49	47.76	38.76	64.86	54.86	-17.10	-16.10
2	0.21505	0.28	41.45	34.13	41.73	34.41	63.01	53.01	-21.28	-18.60
3	0.42726	0.30	39.37	36.06	39.67	36.36	57.31	47.31	-17.63	-10.94
4	0.68243	0.32	30.76	26.61	31.08	26.93	56.00	46.00	-24.92	-19.07
5	13.01817	0.52	32.54	32.22	33.06	32.74	60.00	50.00	-26.94	-17.26
6	24.17188	0.54	31.39	26.25	31.93	26.79	60.00	50.00	-28.07	-23.21

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

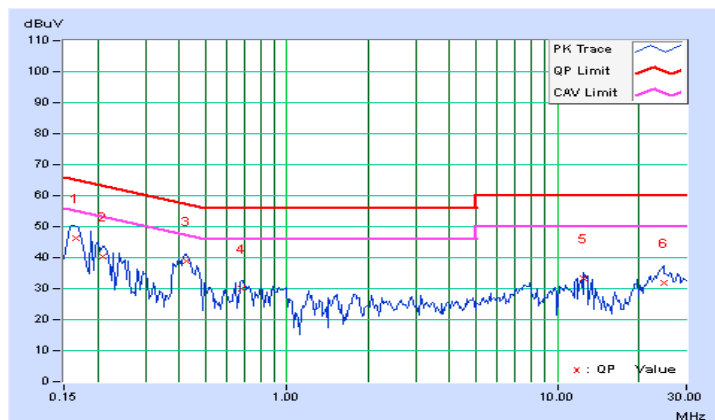


PHASE	Line 2	6dB BANDWIDTH	9kHz
CHANNEL	TX Channel 157		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16681	0.27	45.95	35.30	46.22	35.57	65.12	55.12	-18.90	-19.55
2	0.20968	0.28	40.08	30.63	40.36	30.91	63.22	53.22	-22.86	-22.31
3	0.42716	0.30	38.59	35.17	38.89	35.47	57.31	47.31	-18.42	-11.84
4	0.68261	0.32	29.69	25.41	30.01	25.73	56.00	46.00	-25.99	-20.27
5	12.53516	0.54	32.87	32.61	33.41	33.15	60.00	50.00	-26.59	-16.85
6	24.71484	0.57	31.43	26.13	32.00	26.70	60.00	50.00	-28.00	-23.30

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



4.3 TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1	√	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≤ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A		---	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C		---	250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√	---	1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 D01 Multiple Transmitter Output v02r01 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $NANT \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

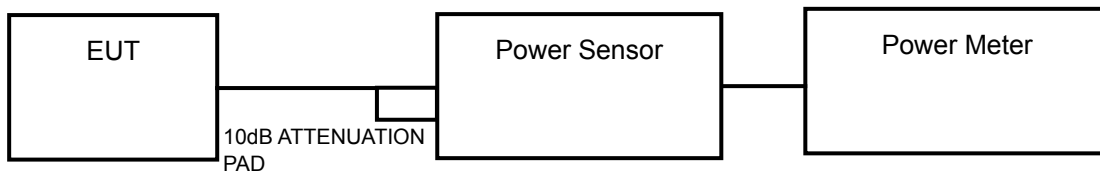
Array Gain = $5 \log(NANT/NSS)$ dB or 3 dB, whichever is less for 20-MHz channel widths with $NANT \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(NANT/NSS)$ dB.

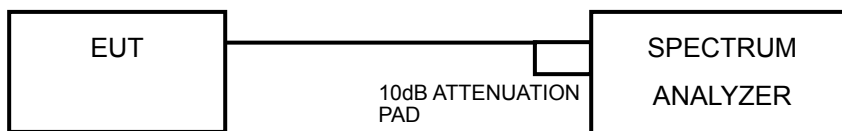
4.3.2 TEST SETUP

FOR AVERAGE POWER MEASUREMENT

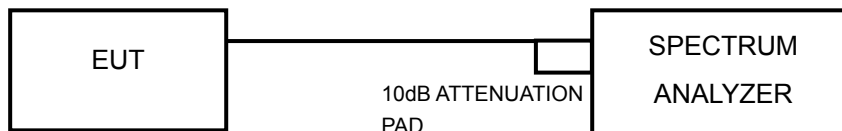
For 802.11a, 802.11n (HT20), 802.11n (HT40)



For 802.11ac (VHT80)



FOR OCCUPIED BANDWIDTH



4.3.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

For 802.11a, 802.11n (HT20), 802.11n (HT40)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

For 802.11ac (VHT80)

- 1) Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- 2) Set sweep trigger to “free run”.
- 3) Set RBW = 1 MHz.
- 4) Set VBW $\geq$ 3 MHz
- 5) Number of points in sweep $\geq$ 2 Span / RBW.
- 6) Sweep time $\leq$ (number of points in sweep) * T
- 7) Detector = RMS.
- 8) Trace mode = max hold.
- 9) Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

FOR OCCUPIED BANDWIDTH

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 300 kHz RBW and 1MHz VBW. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

4.3.7 TEST RESULTS

POWER OUTPUT:

Radio 2: Dipole antenna

802.11a

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
36	5180	18.68	18.22	140.164	21.47	29	-0.7	20.77	21	PASS
40	5200	18.62	18.11	137.492	21.38	29	-0.7	20.68	21	PASS
48	5240	18.79	18.19	141.600	21.51	29	-0.7	20.81	21	PASS

*For U-NII-1:

Gain = 7 > 6dBi, so the conducted power limit shall be reduced to $30 - (7 - 6) = 29\text{dBm}$.

Gain = -0.70dBi (above 30 degrees from the horizon),

EIRP = conducted power + (-0.70dBi) + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4 .

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	18.31	18.29	135.217	21.31	29	PASS
157	5785	18.38	18.51	139.823	21.46	29	PASS
165	5825	18.55	18.73	146.259	21.65	29	PASS

*For U-NII-3: Gain=7dBi, so the power limit shall be reduced to $30 - (7 - 6) = 29.0\text{dBm}$.

802.11n (HT20)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
36	5180	18.64	18.26	140.102	21.46	29	-0.7	20.76	21	PASS
40	5200	18.68	18.48	144.259	21.59	29	-0.7	20.89	21	PASS
48	5240	18.77	18.26	142.324	21.53	29	-0.7	20.83	21	PASS

*For U-NII-1:

Gain = 7 > 6dBi, so the conducted power limit shall be reduced to 30-(7-6) = 29dBm.

Gain = -0.70dBi (above 30 degrees from the horizon),

EIRP = conducted power +(-0.70dBi) + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	17.37	17.49	110.681	20.44	29	PASS
157	5785	18.14	18.29	132.616	21.23	29	PASS
165	5825	18.59	18.86	149.190	21.74	29	PASS

*For U-NII-3: Gain=7dBi, so the power limit shall be reduced to 30-(7-6) = 29.0dBm.

802.11n (HT40)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
38	5190	15.49	15.21	68.589	18.36	29	-0.7	17.66	21	PASS
46	5230	18.72	18.07	138.594	21.42	29	-0.7	20.72	21	PASS

*For U-NII-1:

Gain = 7 > 6dBi, so the conducted power limit shall be reduced to 30-(7-6) = 29dBm.

Gain = -0.70dBi (above 30 degrees from the horizon),

EIRP = conducted power +(-0.70dBi) + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
151	5755	14.59	14.77	58.766	17.69	29	PASS
159	5795	19.30	19.30	170.228	22.31	29	PASS

*For U-NII-3: Gain=7dBi, so the power limit shall be reduced to 30-(7-6) = 29.0dBm.

802.11ac (VHT80)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
42	5210	14.53	14.33	55.481	17.44	29	-0.7	16.74	21	PASS

*For U-NII-1:

Gain = 7 > 6dBi, so the conducted power limit shall be reduced to $30 - (7 - 6) = 29$ dBm.

Gain = -0.70dBi (above 30 degrees from the horizon),

EIRP = conducted power + (-0.70dBi) + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
155	5775	12.07	13.13	36.665	15.64	29	PASS

*For U-NII-3: Gain=7dBi, so the power limit shall be reduced to $30 - (7 - 6) = 29.0$ dBm.

Radio 2: Patch antenna

802.11a

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
36	5180	16.06	15.67	77.263	18.88	28.9	1.8	20.68	21	PASS
40	5200	16.17	15.84	79.771	19.02	28.9	1.8	20.82	21	PASS
48	5240	16.09	15.73	78.055	18.92	28.9	1.8	20.72	21	PASS

*For U-NII-1:

Gain = 7.1 > 6dBi, so the conducted power limit shall be reduced to $30 - (7.1 - 6) = 28.9$ dBm.

Gain = 1.8dBi (above 30 degrees from the horizon),

EIRP = conducted power + 1.8dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	16.87	17.79	108.758	20.36	28.9	PASS
157	5785	23.76	24.01	489.452	26.90	28.9	PASS
165	5825	21.63	22.07	306.611	24.87	28.9	PASS

*For U-NII-3: Gain=7.1dBi, so the power limit shall be reduced to $30 - (7.1 - 6) = 28.9$ dBm.

802.11n (HT20)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
36	5180	16.04	15.71	77.418	18.89	28.9	1.8	20.69	21	PASS
40	5200	16.06	15.89	79.180	18.99	28.9	1.8	20.79	21	PASS
48	5240	16.11	15.86	79.380	19.00	28.9	1.8	20.80	21	PASS

*For U-NII-1:

Gain = 7.1 > 6dBi, so the conducted power limit shall be reduced to $30 - (7.1 - 6) = 28.9$ dBm.

Gain = 1.8dBi (above 30 degrees from the horizon),

EIRP = conducted power + 1.8dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	16.78	17.59	105.055	20.21	28.9	PASS
157	5785	23.67	23.84	474.912	26.77	28.9	PASS
165	5825	20.21	20.56	218.717	23.40	28.9	PASS

*For U-NII-3: Gain=7.1dBi, so the power limit shall be reduced to $30 - (7.1 - 6) = 28.9$ dBm.

802.11n (HT40)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
38	5190	16.05	15.61	76.664	18.85	28.9	1.8	20.65	21	PASS
46	5230	16.13	15.68	78.003	18.92	28.9	1.8	20.72	21	PASS

*For U-NII-1:

Gain = 7.1 > 6dBi, so the conducted power limit shall be reduced to $30 - (7.1 - 6) = 28.9$ dBm.

Gain = 1.8dBi (above 30 degrees from the horizon),

EIRP = conducted power + 1.8dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
151	5755	14.38	15.09	59.701	17.76	28.9	PASS
159	5795	20.51	20.97	237.486	23.76	28.9	PASS

*For U-NII-3: Gain=7.1dBi, so the power limit shall be reduced to $30 - (7.1 - 6) = 28.9$ dBm.

802.11ac (VHT80)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
42	5210	16.16	16.13	82.325	19.16	28.9	1.8	20.96	21	PASS

*For U-NII-1:

Gain = 7.1 > 6dBi, so the conducted power limit shall be reduced to $30 - (7.1 - 6) = 28.9\text{dBm}$.

Gain = 1.8dBi (above 30 degrees from the horizon),

EIRP = conducted power + 1.8dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
155	5775	12.05	13.65	39.206	15.93	28.9	PASS

*For U-NII-3: Gain=7.1dBi, so the power limit shall be reduced to $30 - (7.1 - 6) = 28.9\text{dBm}$.

Radio 2: Sector antenna

802.11a

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
36	5180	4.76	5.13	6.250	7.96	23	13	20.96	21	PASS
40	5200	4.30	4.67	5.623	7.50	23	13	20.50	21	PASS
48	5240	4.47	5.08	6.020	7.80	23	13	20.80	21	PASS

*For U-NII-1:

Gain = 13 > 6dBi, so the conducted power limit shall be reduced to $30 - (13 - 6) = 23.0\text{dBm}$.

EIRP = conducted power + 13dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	14.73	15.40	64.391	18.09	23	PASS
157	5785	17.01	17.86	111.328	20.47	23	PASS
165	5825	17.04	17.89	112.100	20.50	23	PASS

*For U-NII-3: Gain=13dBi, so the power limit shall be reduced to $30 - (13 - 6) = 23.0\text{dBm}$.

802.11n (HT20)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
36	5180	4.26	5.05	5.866	7.68	23	13	20.68	21	PASS
40	5200	4.32	4.58	5.575	7.46	23	13	20.46	21	PASS
48	5240	4.46	5.03	5.977	7.76	23	13	20.76	21	PASS

*For U-NII-1:

Gain = 13 > 6dBi, so the conducted power limit shall be reduced to $30 - (13 - 6) = 23.0$ dBm.

EIRP = conducted power + 13dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
149	5745	14.44	14.93	58.914	17.70	23	PASS
157	5785	17.07	17.87	112.168	20.50	23	PASS
165	5825	16.01	16.84	88.208	19.46	23	PASS

*For U-NII-3: Gain=13dBi, so the power limit shall be reduced to $30 - (13 - 6) = 23.0$ dBm.

802.11n (HT40)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
38	5190	4.36	5.07	5.943	7.74	23	13	20.74	21	PASS
46	5230	4.33	4.93	5.822	7.65	23	13	20.65	21	PASS

*For U-NII-1:

Gain = 13 > 6dBi, so the conducted power limit shall be reduced to $30 - (13 - 6) = 23.0$ dBm.

EIRP = conducted power + 13dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
151	5755	9.33	10.99	21.130	13.25	23	PASS
159	5795	16.19	16.81	89.564	19.52	23	PASS

*For U-NII-3: Gain=13dBi, so the power limit shall be reduced to $30 - (13 - 6) = 23.0$ dBm.

802.11ac (VHT80)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1							
42	5210	4.18	4.91	5.715	7.57	23	13	20.57	21	PASS

*For U-NII-1:

Gain = 13 > 6dBi, so the conducted power limit shall be reduced to $30 - (13 - 6) = 23.0\text{dBm}$.

EIRP = conducted power + 13dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHAN.	CHAN. FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
155	5775	4.29	6.79	7.460	8.73	23	PASS

*For U-NII-3: Gain=13dBi, so the power limit shall be reduced to $30 - (13 - 6) = 23.0\text{dBm}$.

Radio 3: PIFA antenna

802.11a

CHAN.	FREQ. (MHz)	CONDUCTED POWER (mW)	CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
36	5180	25.003	13.98	29.5	6.5	20.48	21	PASS
40	5200	24.946	13.97	29.5	6.5	20.47	21	PASS
48	5240	24.547	13.90	29.5	6.5	20.40	21	PASS

*For U-NII-1:

Gain = 6.5 > 6dBi, so the conducted power limit shall be reduced to $30 - (6.5 - 6) = 29.5$ dBm.

EIRP = conducted power + 6.5dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHANNEL	CHANNEL FREQUENCY (MHz)	CONDUCTED POWER (mW)	CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
149	5745	29.580	14.71	29.50	PASS
157	5785	145.211	21.62	29.50	PASS
165	5825	59.566	17.75	29.50	PASS

*For U-NII-3: Gain= 6.5dBi, so the power limit shall be reduced to $30 - (6.5 - 6) = 29.5$ dBm.

802.11n (HT20)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (mW)	CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
36	5180	24.946	13.97	29.5	6.5	20.47	21	PASS
40	5200	25.003	13.98	29.5	6.5	20.48	21	PASS
48	5240	24.717	13.93	29.5	6.5	20.43	21	PASS

*For U-NII-1:

Gain = 6.5 > 6dBi, so the conducted power limit shall be reduced to $30 - (6.5 - 6) = 29.5$ dBm.

EIRP = conducted power + 6.5dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

CHANNEL	CHANNEL FREQUENCY (MHz)	CONDUCTED POWER (mW)	CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
149	5745	25.763	14.11	29.50	PASS
157	5785	79.983	19.03	29.50	PASS
165	5825	60.117	17.79	29.50	PASS

*For U-NII-3: Gain= 6.5dBi, so the power limit shall be reduced to $30 - (6.5 - 6) = 29.5$ dBm.

802.11n (HT40)

CHAN.	FREQ. (MHz)	CONDUCTED POWER (mW)	CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	GAIN (dBi)	EIRP (dBm)	EIRP LIMIT (dBm)	PASS / FAIL
38	5190	17.742	12.49	29.5	6.5	18.99	21	PASS
46	5230	24.044	13.81	29.5	6.5	20.31	21	PASS

*For U-NII-1:

Gain = 6.5 > 6dBi, so the conducted power limit shall be reduced to $30 - (6.5 - 6) = 29.5\text{dBm}$.

EIRP = conducted power + 6.5dBi + array gain = 0 dB (i.e., no array gain) for NANT ≤ 4 .

CHANNEL	CHANNEL FREQUENCY (MHz)	CONDUCTED POWER (mW)	CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
151	5755	10.069	10.03	29.50	PASS
159	5795	58.614	17.68	29.50	PASS

*For U-NII-3: Gain= 6.5dBi, so the power limit shall be reduced to $30 - (6.5 - 6) = 29.5\text{dBm}$.

26dBc BANDWIDTH

Radio 2: Dipole antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	20.68	20.45	PASS
40	5200	20.64	20.50	PASS
48	5240	20.71	20.50	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	21.84	20.73	PASS
40	5200	21.39	20.68	PASS
48	5240	20.95	20.72	PASS

802.11n (HT40)

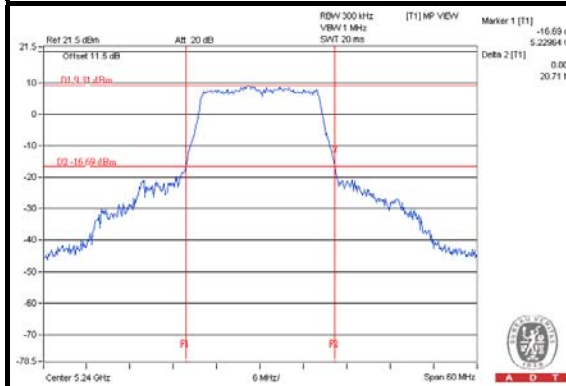
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
38	5190	41.74	41.26	PASS
46	5230	42.15	41.13	PASS

802.11ac (VHT80)

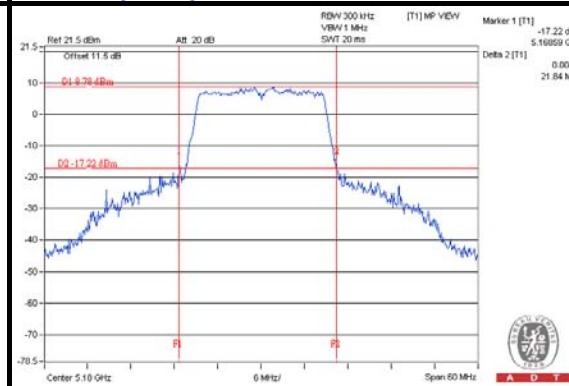
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
42	5210	83.10	82.58	PASS

SPECTRUM PLOT OF WORST VALUE

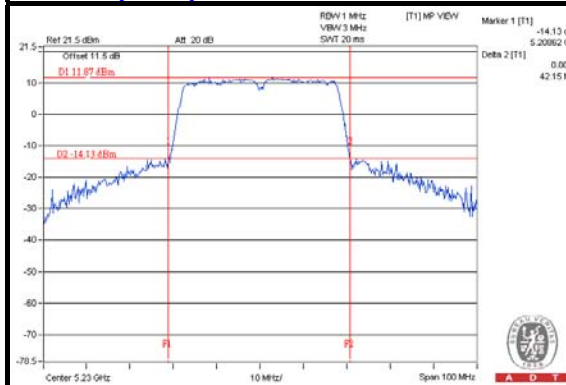
802.11a



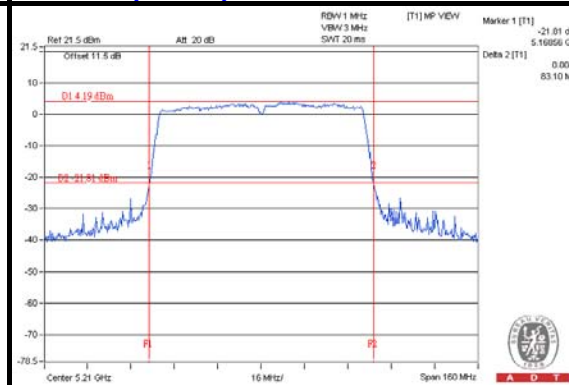
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Patch antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	20.43	20.50	PASS
40	5200	20.57	20.55	PASS
48	5240	20.52	20.36	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	20.83	20.50	PASS
40	5200	20.93	20.51	PASS
48	5240	20.76	20.63	PASS

802.11n (HT40)

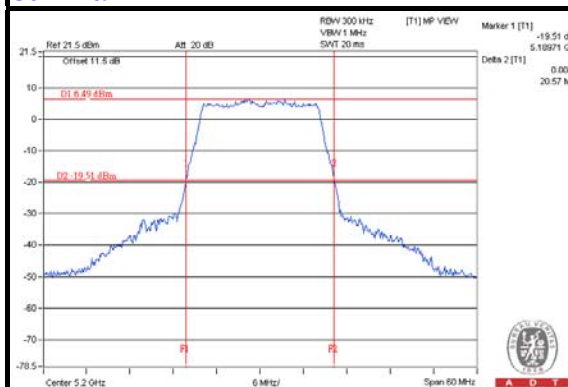
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
38	5190	41.51	41.14	PASS
46	5230	41.69	41.18	PASS

802.11ac (VHT80)

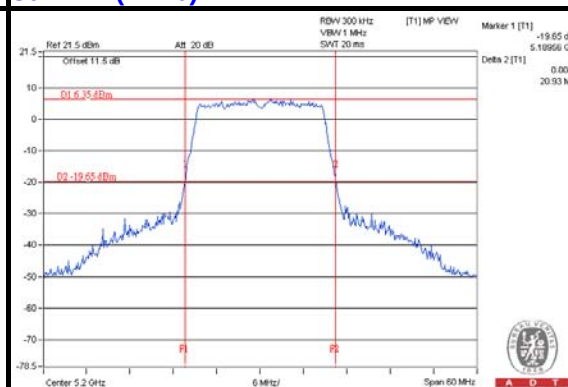
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
42	5210	83.23	82.72	PASS

SPECTRUM PLOT OF WORST VALUE

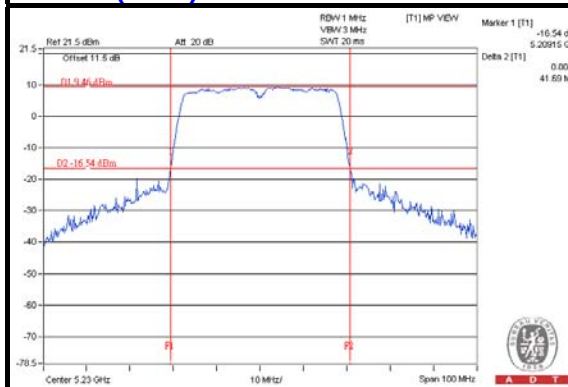
802.11a



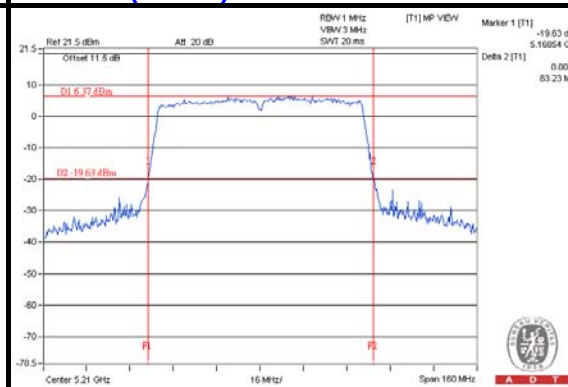
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Sector antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	20.51	20.55	PASS
40	5200	20.58	20.47	PASS
48	5240	20.53	20.36	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	20.62	20.72	PASS
40	5200	20.61	20.49	PASS
48	5240	20.66	20.60	PASS

802.11n (HT40)

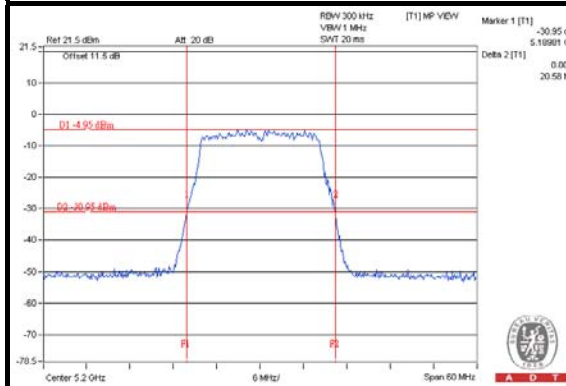
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
38	5190	41.25	41.18	PASS
46	5230	41.41	41.07	PASS

802.11ac (VHT80)

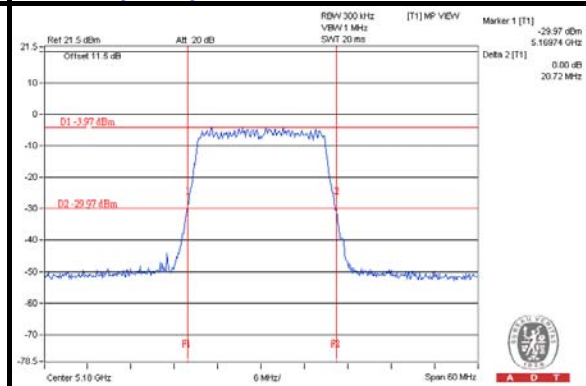
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
42	5210	82.75	83.07	PASS

SPECTRUM PLOT OF WORST VALUE

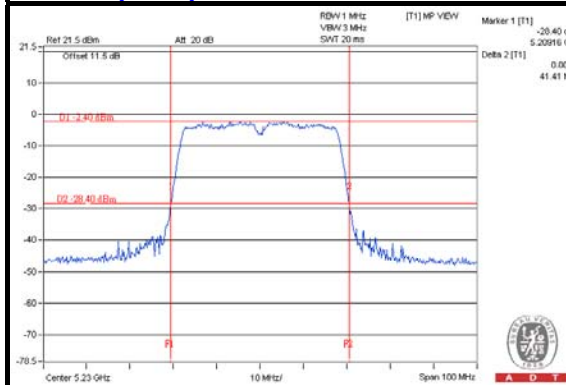
802.11a



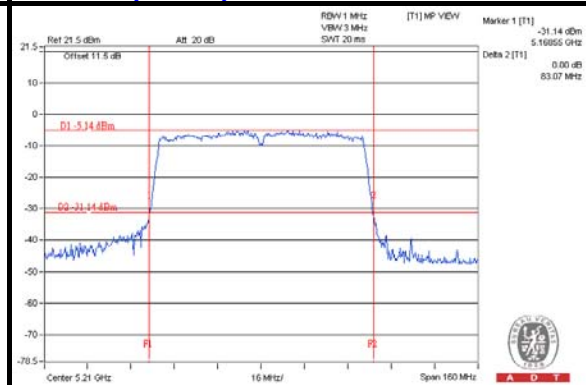
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 3: PIFA antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	25.99	PASS
40	5200	21.75	PASS
48	5240	21.74	PASS

802.11n (HT20)

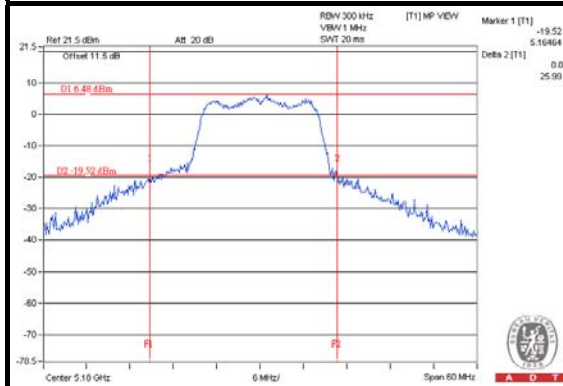
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
36	5180	21.59	PASS
40	5200	26.55	PASS
48	5240	20.85	PASS

802.11n (HT40)

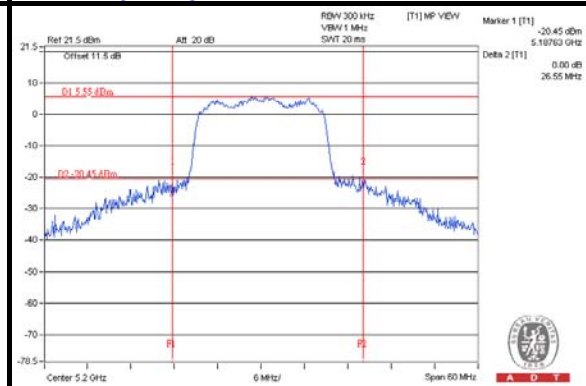
CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc BANDWIDTH (MHz)	PASS / FAIL
38	5190	68.30	PASS
46	5230	80.26	PASS

SPECTRUM PLOT OF WORST VALUE

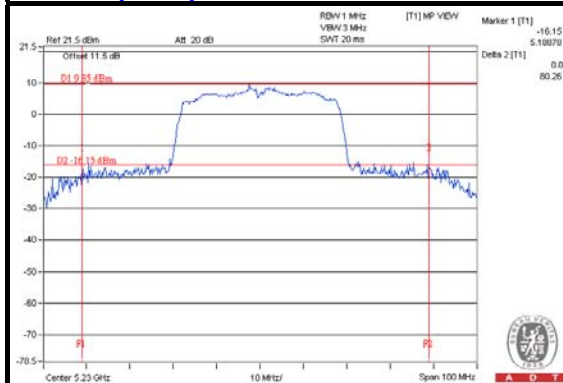
802.11a



802.11n (HT20)



802.11n (HT40)



OCCUPIED BANDWIDTH:

Radio 2: Dipole antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	16.92	16.80	PASS
40	5200	16.92	16.80	PASS
48	5240	16.92	16.68	PASS
149	5745	16.80	16.92	PASS
157	5785	16.92	16.68	PASS
165	5825	16.92	16.68	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	18.00	17.88	PASS
40	5200	18.00	17.88	PASS
48	5240	17.88	17.88	PASS
149	5745	17.88	17.88	PASS
157	5785	18.00	17.88	PASS
165	5825	17.88	17.88	PASS

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
38	5190	36.60	36.60	PASS
46	5230	36.60	36.60	PASS
151	5755	36.80	36.80	PASS
159	5795	36.60	36.60	PASS

802.11ac (VHT80)

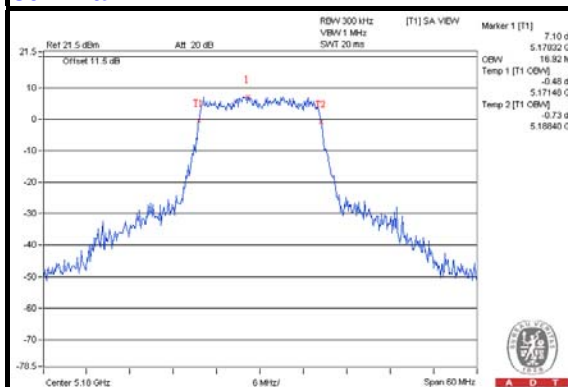
CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
42	5210	75.84	75.84	PASS
155	5775	75.84	75.84	PASS



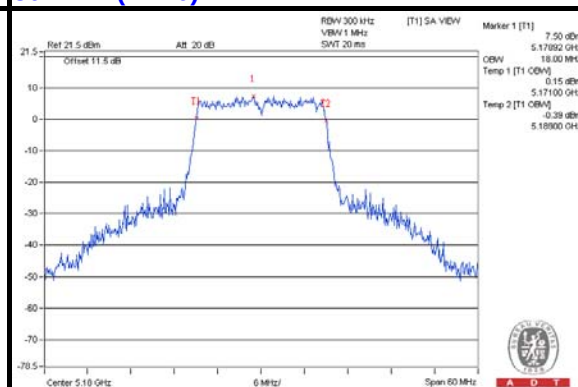
A D T

SPECTRUM PLOT OF WORST VALUE

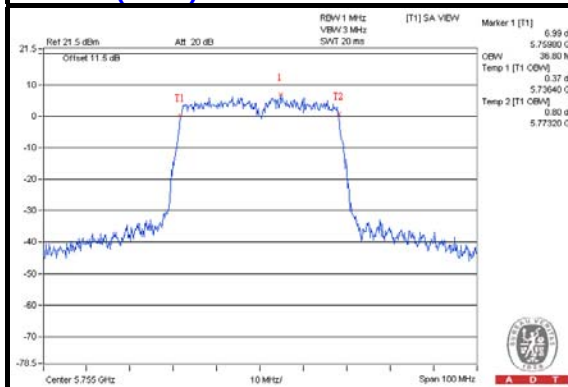
802.11a



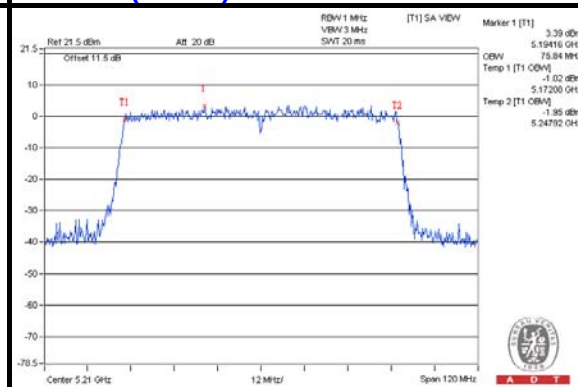
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Patch antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	16.92	16.92	PASS
40	5200	16.80	16.80	PASS
48	5240	16.92	16.68	PASS
149	5745	17.80	17.80	PASS
157	5785	18.20	18.80	PASS
165	5825	17.80	18.00	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	17.88	17.88	PASS
40	5200	17.88	17.88	PASS
48	5240	17.88	17.88	PASS
149	5745	18.60	18.60	PASS
157	5785	19.20	19.20	PASS
165	5825	18.80	18.60	PASS

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
38	5190	36.60	36.60	PASS
46	5230	36.60	36.60	PASS
151	5755	36.80	37.00	PASS
159	5795	36.60	36.80	PASS

802.11ac (VHT80)

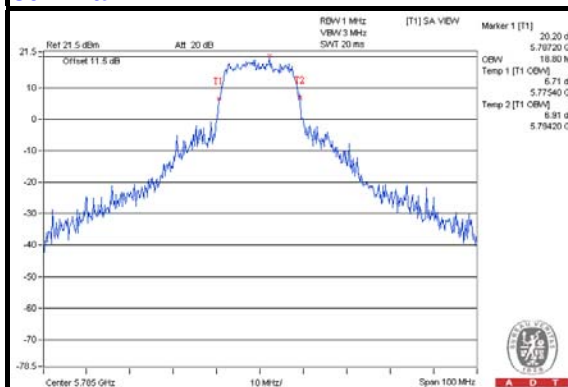
CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
42	5210	75.60	76.08	PASS
155	5775	75.80	75.80	PASS



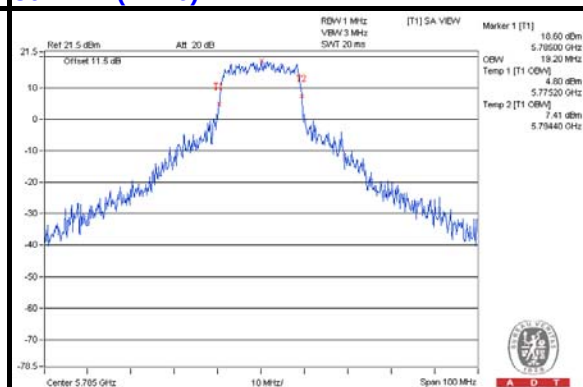
A D T

SPECTRUM PLOT OF WORST VALUE

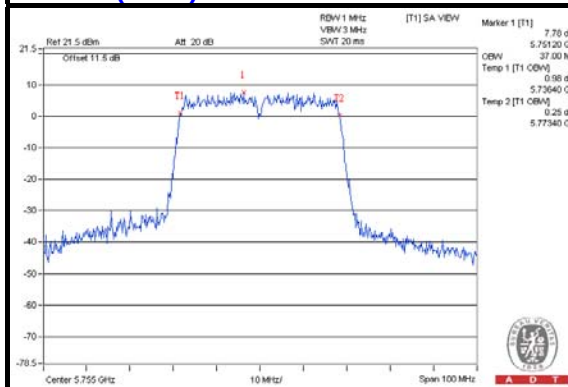
802.11a



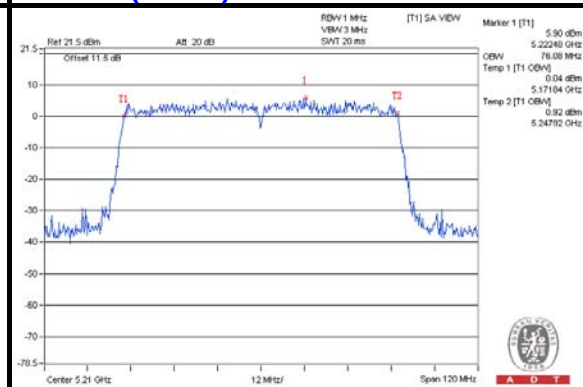
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Sector antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	16.80	16.68	PASS
40	5200	16.68	16.80	PASS
48	5240	16.68	16.80	PASS
149	5745	17.80	17.80	PASS
157	5785	17.80	17.40	PASS
165	5825	17.80	17.60	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	17.88	17.88	PASS
40	5200	17.88	17.88	PASS
48	5240	17.88	17.88	PASS
149	5745	18.40	18.40	PASS
157	5785	18.80	18.40	PASS
165	5825	18.60	18.40	PASS

802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
38	5190	36.60	36.60	PASS
46	5230	36.60	36.60	PASS
151	5755	36.60	36.60	PASS
159	5795	36.60	36.60	PASS

802.11ac (VHT80)

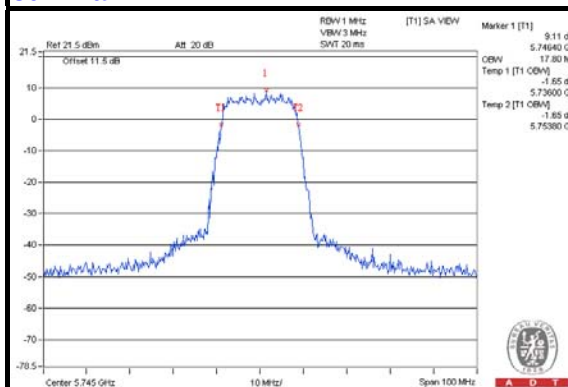
CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
42	5210	75.84	75.84	PASS
155	5775	75.80	75.80	PASS



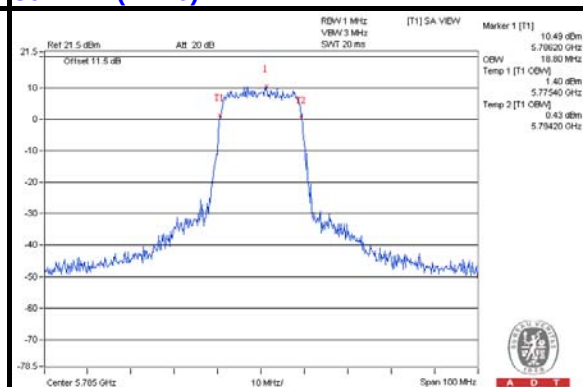
A D T

SPECTRUM PLOT OF WORST VALUE

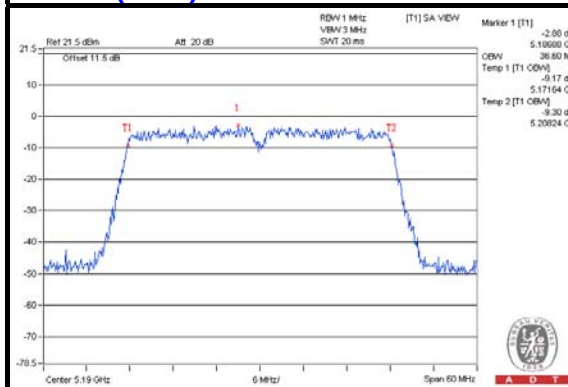
802.11a



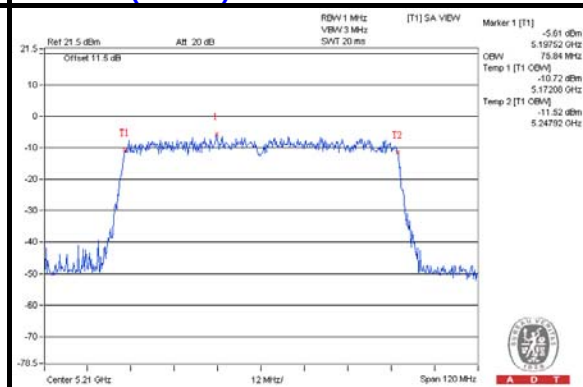
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 3: PIFA antenna

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
36	5180	16.80	PASS
40	5200	16.44	PASS
48	5240	16.56	PASS
149	5745	16.56	PASS
157	5785	26.76	PASS
165	5825	16.68	PASS

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
36	5180	17.64	PASS
40	5200	17.76	PASS
48	5240	17.64	PASS
149	5745	17.64	PASS
157	5785	18.24	PASS
165	5825	17.76	PASS

802.11n (HT40)

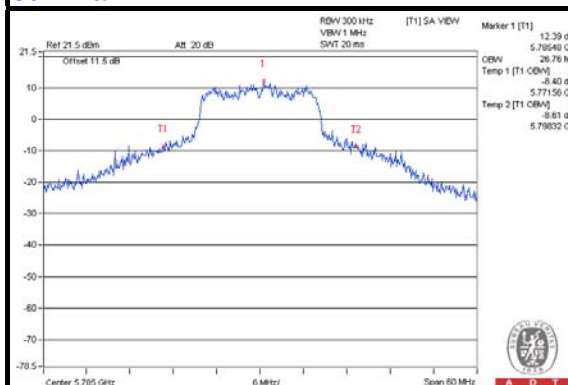
CHANNEL	CHANNEL FREQUENCY (MHz)	OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
38	5190	36.80	PASS
46	5230	36.80	PASS
151	5755	36.60	PASS
159	5795	38.00	PASS



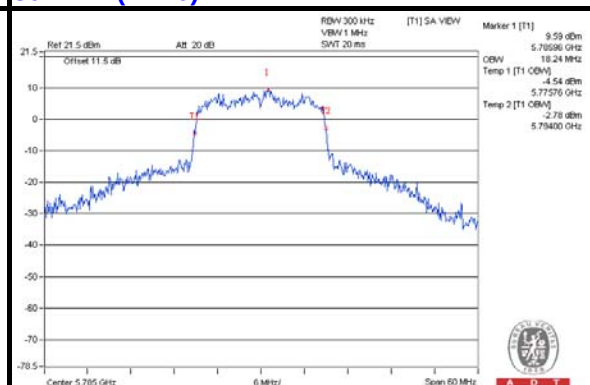
A D T

SPECTRUM PLOT OF WORST VALUE

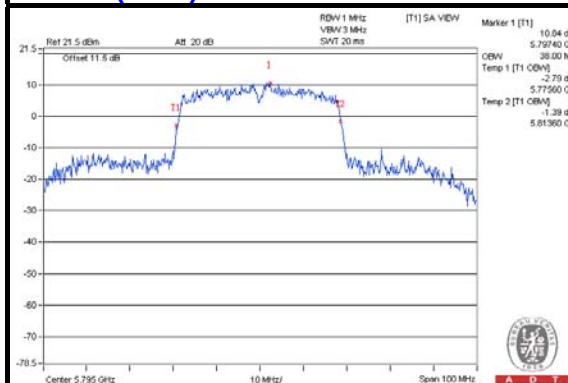
802.11a



802.11n (HT20)



802.11n (HT40)



4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Operation Band	EUT Category		LIMIT
U-NII-1	√	Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Mobile and Portable client device	11dBm/ MHz
U-NII-2A		---	11dBm/ MHz
U-NII-2C		---	11dBm/ MHz
U-NII-3	√	---	30dBm/ 500kHz

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.4.4 TEST PROCEDURES

For U-NII-1 band:

Without duty factor:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 30 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to “free run”.
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value

With duty factor:

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 30 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to “free run”.
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add $10 \log (1/\text{duty cycle})$

For U-NII-3 band:

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW $\geq$ 3 RBW, Detector = RMS
- 3) Sweep time = auto, trigger set to “free run”.
- 4) Trace average at least 100 traces in power averaging mode.
- 5) Record the max value and add $10 \log (1/\text{duty cycle})$
- 6) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz}/300\text{kHz})$

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6.

4.4.7 TEST RESULTS

For U-NII-1 band

Radio 2: Dipole antenna

802.11a

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
36	5180	4.40	4.85	7.64	0.09	7.73	12.99	PASS
40	5200	4.66	4.64	7.66	0.09	7.75	12.99	PASS
48	5240	5.20	4.66	7.95	0.09	8.04	12.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 17-(10.01-6) = 12.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
36	5180	4.35	4.20	7.29	12.99	PASS
40	5200	4.36	4.36	7.37	12.99	PASS
48	5240	5.12	4.51	7.84	12.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 17-(10.01-6) = 12.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
38	5190	-2.01	-2.05	0.98	0.14	1.12	12.99	PASS
46	5230	1.56	1.22	4.40	0.14	4.54	12.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 17-(10.01-6) = 12.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

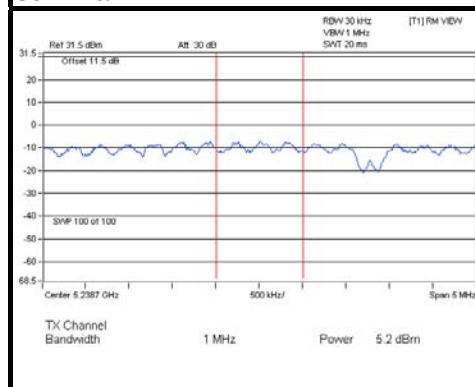
CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
42	5210	-6.23	-6.43	-3.32	0.43	-2.89	12.99	PASS

NOTE:

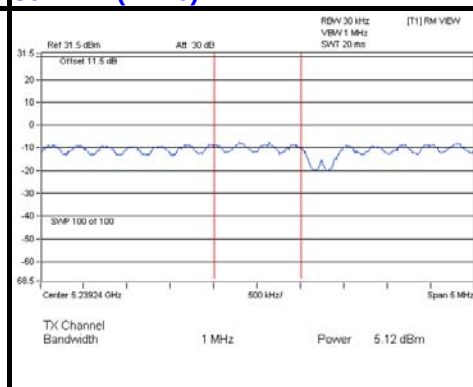
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $7\text{dBi} + 10\log(2) = 10.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (10.01 - 6) = 12.99\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

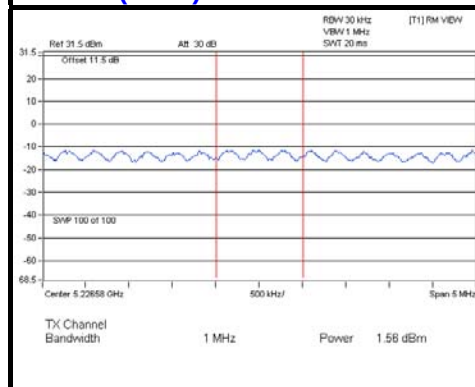
802.11a



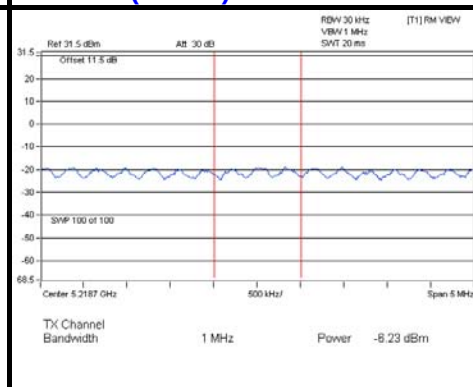
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Patch antenna

802.11a

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
36	5180	1.80	1.86	4.84	12.89	PASS
40	5200	2.31	1.91	5.12	12.89	PASS
48	5240	2.72	1.80	5.29	12.89	PASS

NOTE:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $7.1\text{dBi} + 10\log(2) = 10.11\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(10.11-6) = 12.89\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
36	5180	1.88	1.93	4.92	12.89	PASS
40	5200	2.31	1.90	5.12	12.89	PASS
48	5240	2.53	1.55	5.08	12.89	PASS

NOTE:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $7.1\text{dBi} + 10\log(2) = 10.11\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(10.11-6) = 12.89\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
38	5190	-1.08	-1.18	1.88	0.22	2.10	12.89	PASS
46	5230	-0.46	-0.98	2.30	0.22	2.52	12.89	PASS

NOTE:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $7.1\text{dBi} + 10\log(2) = 10.11\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(10.11-6) = 12.89\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

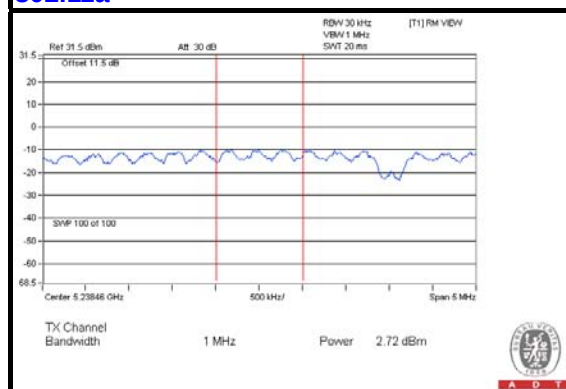
CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
42	5210	-4.25	-4.56	-1.39	0.28	-1.11	12.89	PASS

NOTE:

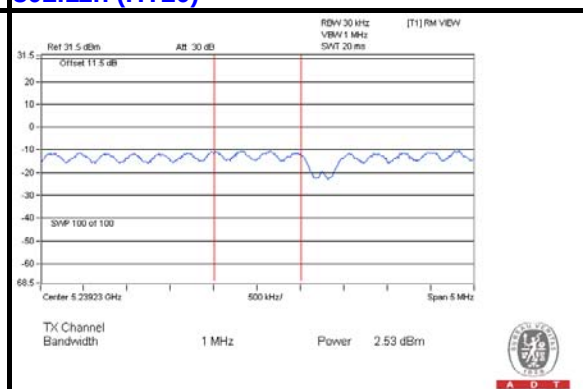
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $7.1\text{dBi} + 10\log(2) = 10.11\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (10.11 - 6) = 12.89\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

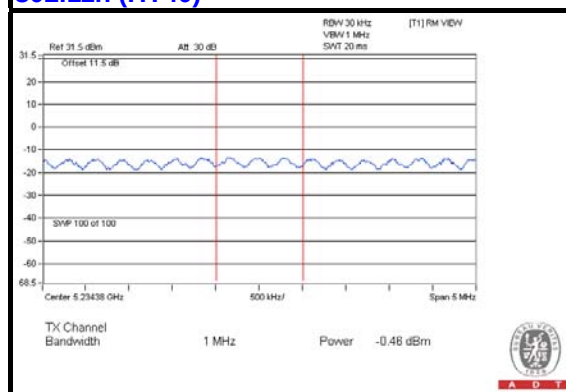
802.11a



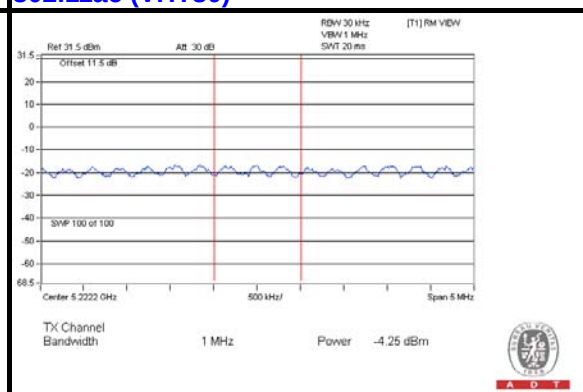
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Sector antenna

802.11a

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
36	5180	-8.66	-9.01	-5.83	0.10	-5.73	6.99	PASS
40	5200	-9.70	-9.37	-6.52	0.10	-6.42	6.99	PASS
48	5240	-9.06	-9.60	-6.31	0.10	-6.21	6.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(16.01-6) = 6.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
36	5180	-8.92	-9.34	-6.11	0.09	-6.02	6.99	PASS
40	5200	-10.32	-9.90	-7.09	0.09	-7.00	6.99	PASS
48	5240	-10.26	-9.96	-7.09	0.09	-7.00	6.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(16.01-6) = 6.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
38	5190	-12.59	-12.64	-9.60	0.12	-9.48	6.99	PASS
46	5230	-13.05	-12.89	-9.96	0.12	-9.84	6.99	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(16.01-6) = 6.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

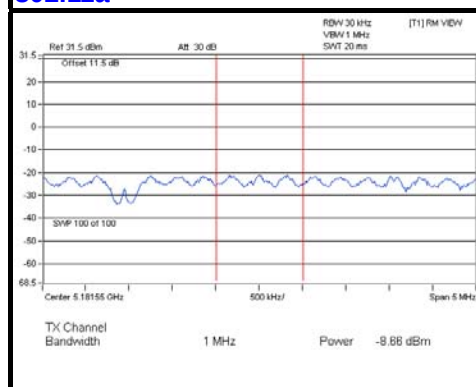
CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1					
42	5210	-16.25	-16.28	-13.25	0.26	-12.99	6.99	PASS

NOTE:

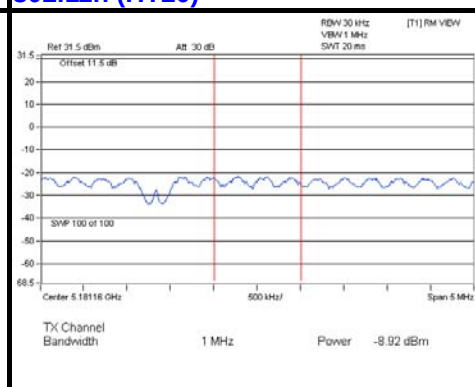
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (16.01 - 6) = 6.99\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

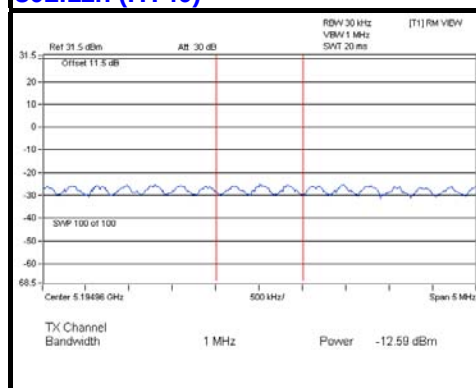
802.11a



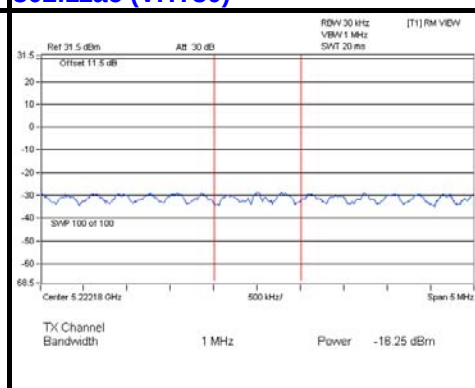
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 3: PIFA antenna

802.11a

CHANNEL	FREQUENCY (MHz)	PSD (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	1.69	16.50	PASS
40	5200	1.89	16.50	PASS
48	5240	1.92	16.50	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.5dBi > 6dBi, so the power density limit shall be reduced to $17-(6.5-6) = 16.5\text{dBm}$.

802.11n (HT20)

CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
36	5180	1.66	0.10	1.76	16.50	PASS
40	5200	1.74	0.10	1.84	16.50	PASS
48	5240	1.74	0.10	1.84	16.50	PASS

NOTE:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.5dBi > 6dBi, so the power density limit shall be reduced to $17-(6.5-6) = 16.5\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

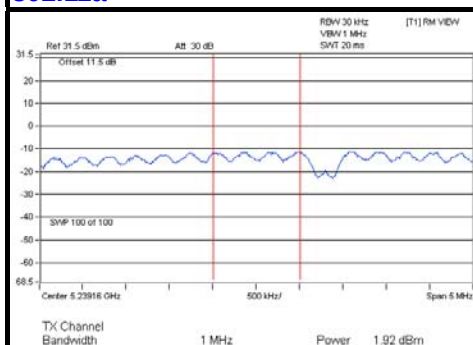
CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)	DUTY FACTOR	PSD WITH DUTY FACTOR (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
38	5190	-3.23	0.14	-3.09	16.50	PASS
46	5230	-1.69	0.14	-1.55	16.50	PASS

NOTE:

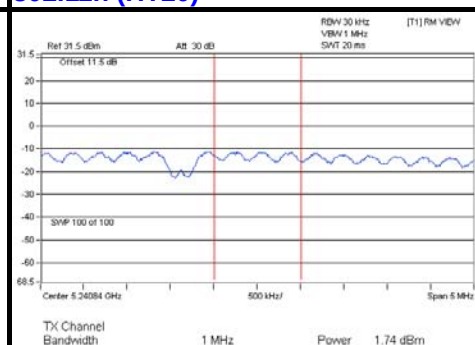
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.5dBi > 6dBi, so the power density limit shall be reduced to $17-(6.5-6) = 16.5\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

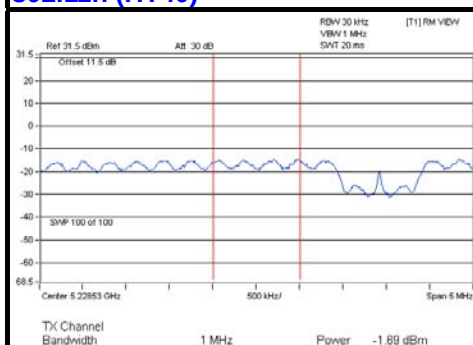
802.11a



802.11n (HT20)



802.11n (HT40)



For U-NII-3 band

Radio 2: Dipole antenna

802.11a

TX chain	Channel	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	149	5745	-3.14	-0.92	3.01	0.09	2.18	25.99	PASS
	157	5785	-3.56	-1.34	3.01	0.09	1.76	25.99	PASS
	165	5825	-3.58	-1.36	3.01	0.09	1.74	25.99	PASS
1	149	5745	-3.39	-1.17	3.01	0.09	1.93	25.99	PASS
	157	5785	-3.46	-1.24	3.01	0.09	1.86	25.99	PASS
	165	5825	-3.25	-1.03	3.01	0.09	2.07	25.99	PASS

NOTE:

- Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 30-(10.01-6) = 25.99dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	149	5745	-4.78	-2.56	3.01	0.10	0.55	25.99	PASS
	157	5785	-3.83	-1.61	3.01	0.10	1.50	25.99	PASS
	165	5825	-3.67	-1.45	3.01	0.10	1.66	25.99	PASS
1	149	5745	-4.61	-2.39	3.01	0.10	0.72	25.99	PASS
	157	5785	-3.83	-1.61	3.01	0.10	1.50	25.99	PASS
	165	5825	-3.56	-1.34	3.01	0.10	1.77	25.99	PASS

NOTE:

- Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 30-(10.01-6) = 25.99dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	151	5755	-11.29	-9.07	3.01	0.37	-5.88	25.99	PASS
	159	5795	-6.44	-4.22	3.01	0.37	-1.03	25.99	PASS
1	151	5755	-10.77	-8.55	3.01	0.37	-5.36	25.99	PASS
	159	5795	-6.41	-4.19	3.01	0.37	-1.00	25.99	PASS

NOTE:

1. Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 30-(10.01-6) = 25.99dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	155	5775	-16.63	-14.41	3.01	0.37	-11.03	25.99	PASS
1	155	5775	-15.58	-13.36	3.01	0.37	-9.98	25.99	PASS

NOTE:

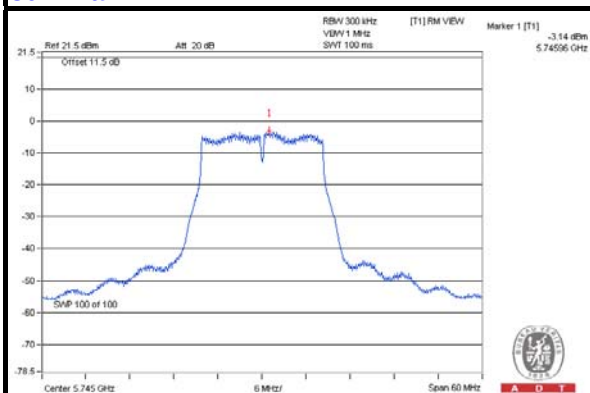
1. Directional gain = 7dBi + 10log(2) = 10.01dBi > 6dBi, so the power density limit shall be reduced to 30-(10.01-6) = 25.99dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.



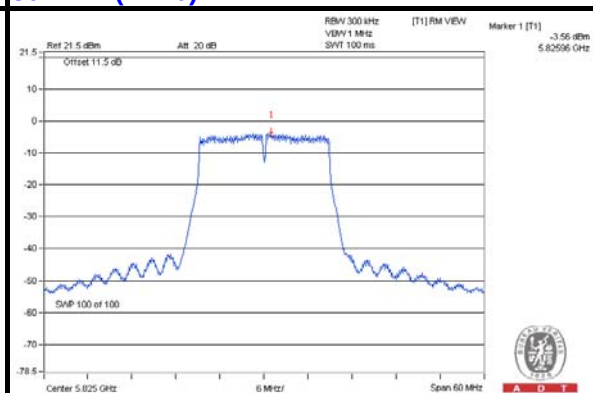
A D T

SPECTRUM PLOT OF WORST VALUE

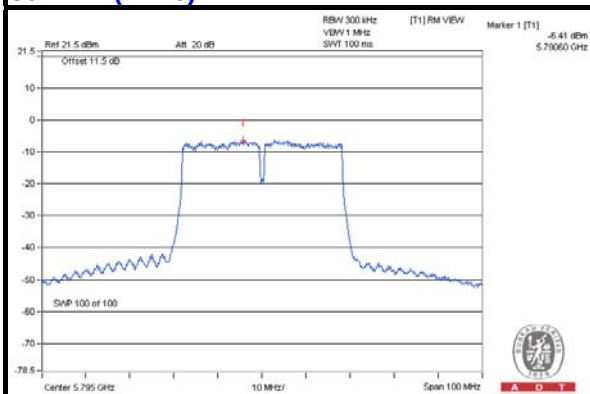
802.11a



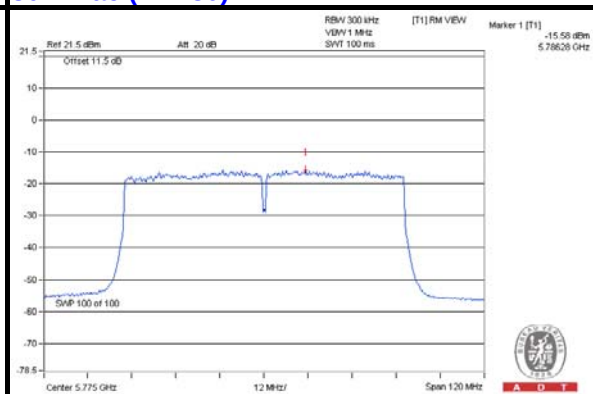
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Patch antenna

802.11a

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
0	149	5745	-5.29	-3.07	3.01	-0.06	25.89	PASS
	157	5785	1.43	3.65	3.01	6.66	25.89	PASS
	165	5825	-0.41	1.81	3.01	4.82	25.89	PASS
1	149	5745	-4.26	-2.04	3.01	0.97	25.89	PASS
	157	5785	1.63	3.85	3.01	6.86	25.89	PASS
	165	5825	-0.47	1.75	3.01	4.76	25.89	PASS

NOTE:

1. Directional gain = $7.1\text{dBi} + 10\log(2) = 10.11\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.11 - 6) = 25.89\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
0	149	5745	-5.55	-3.33	3.01	-0.32	25.89	PASS
	157	5785	0.90	3.12	3.01	6.13	25.89	PASS
	165	5825	-2.47	-0.25	3.01	2.76	25.89	PASS
1	149	5745	-4.93	-2.71	3.01	0.30	25.89	PASS
	157	5785	1.28	3.50	3.01	6.51	25.89	PASS
	165	5825	-2.28	-0.06	3.01	2.95	25.89	PASS

NOTE:

1. Directional gain = $7.1\text{dBi} + 10\log(2) = 10.11\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.11 - 6) = 25.89\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	151	5755	-11.51	-9.29	3.01	0.17	-6.11	25.89	PASS
	159	5795	-5.63	-3.41	3.01	0.17	-0.23	25.89	PASS
1	151	5755	-10.79	-8.57	3.01	0.17	-5.39	25.89	PASS
	159	5795	-5.12	-2.90	3.01	0.17	0.28	25.89	PASS

NOTE:

1. Directional gain = $7.1\text{dBi} + 10\log(2) = 10.11\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.11 - 6) = 25.89\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

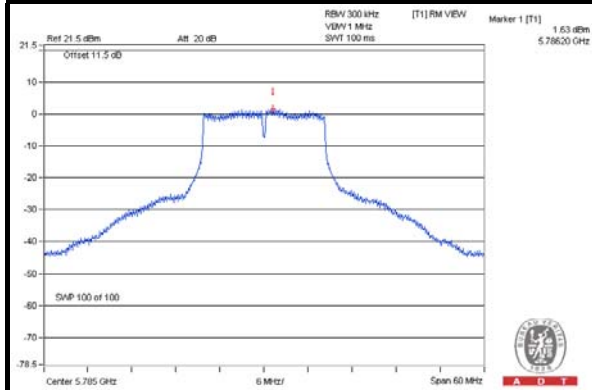
TX chain	Channel	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	155	5775	-17.02	-14.80	3.01	0.44	-11.35	25.89	PASS
1	155	5775	-15.48	-13.26	3.01	0.44	-9.81	25.89	PASS

NOTE:

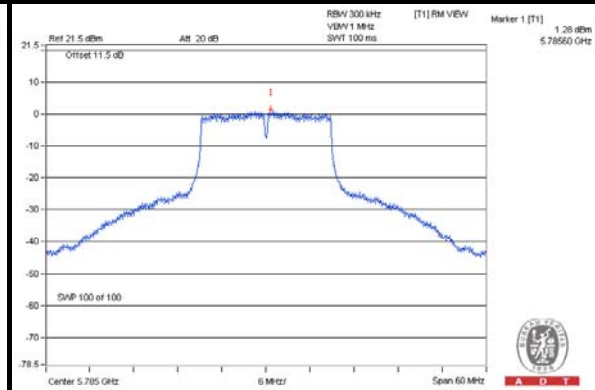
1. Directional gain = $7.1\text{dBi} + 10\log(2) = 10.11\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (10.11 - 6) = 25.89\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

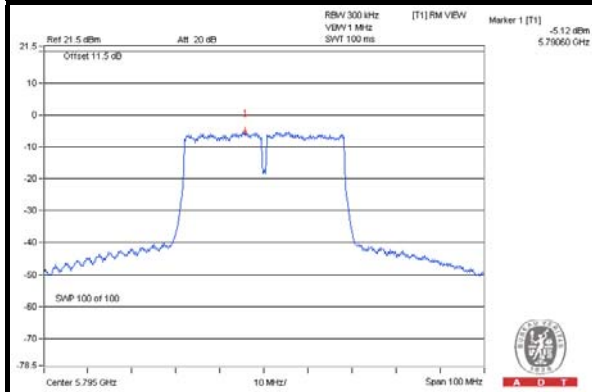
802.11a



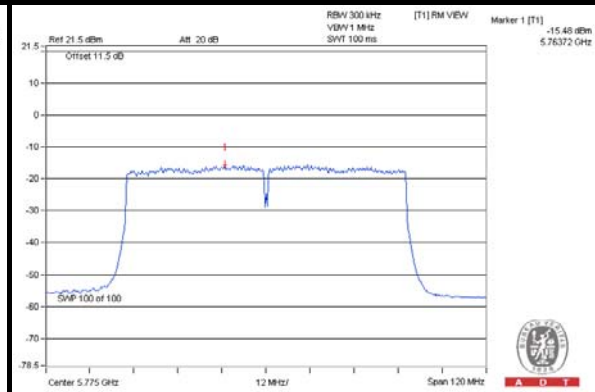
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Sector antenna

802.11a

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
0	149	5745	-8.19	-5.97	3.01	-2.96	19.99	PASS
	157	5785	-6.14	-3.92	3.01	-0.91	19.99	PASS
	165	5825	-5.90	-3.68	3.01	-0.67	19.99	PASS
1	149	5745	-7.48	-5.26	3.01	-2.25	19.99	PASS
	157	5785	-5.26	-3.04	3.01	-0.03	19.99	PASS
	165	5825	-5.35	-3.13	3.01	-0.12	19.99	PASS

NOTE:

- Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (16.01 - 6) = 19.99\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
0	149	5745	-9.01	-6.79	3.01	-3.78	19.99	PASS
	157	5785	-6.60	-4.38	3.01	-1.37	19.99	PASS
	165	5825	-7.31	-5.09	3.01	-2.08	19.99	PASS
1	149	5745	-8.49	-6.27	3.01	-3.26	19.99	PASS
	157	5785	-6.00	-3.78	3.01	-0.77	19.99	PASS
	165	5825	-6.79	-4.57	3.01	-1.56	19.99	PASS

NOTE:

- Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (16.01 - 6) = 19.99\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

TX chain	Channel	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	151	5755	-17.30	-15.08	3.01	0.15	-11.92	19.99	PASS
	159	5795	-10.67	-8.45	3.01	0.15	-5.29	19.99	PASS
1	151	5755	-15.59	-13.37	3.01	0.15	-10.21	19.99	PASS
	159	5795	-10.15	-7.93	3.01	0.15	-4.77	19.99	PASS

NOTE:

1. Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(16.01-6) = 19.99\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

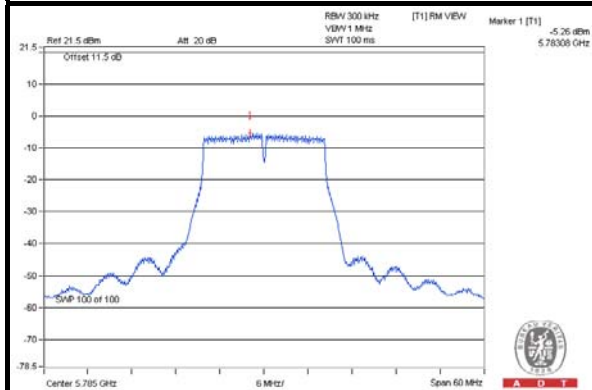
TX chain	Channel	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty Factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	PASS /FAIL
0	155	5775	-26.27	-24.05	3.01	0.26	-20.78	19.99	PASS
1	155	5775	-22.54	-20.32	3.01	0.26	-17.05	19.99	PASS

NOTE:

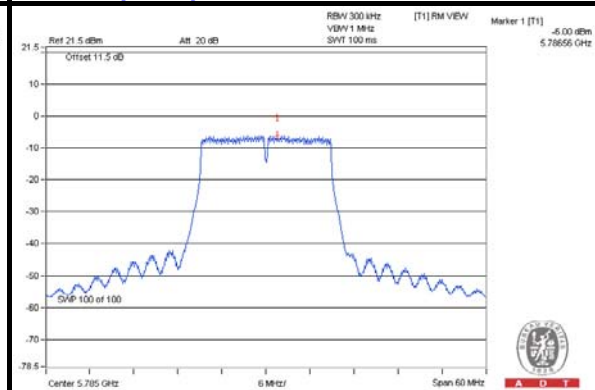
1. Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(16.01-6) = 19.99\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

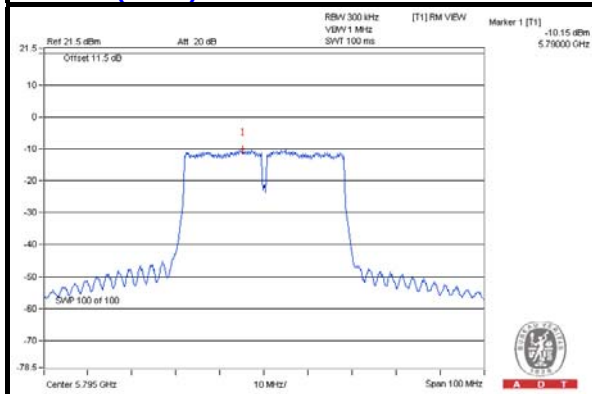
802.11a



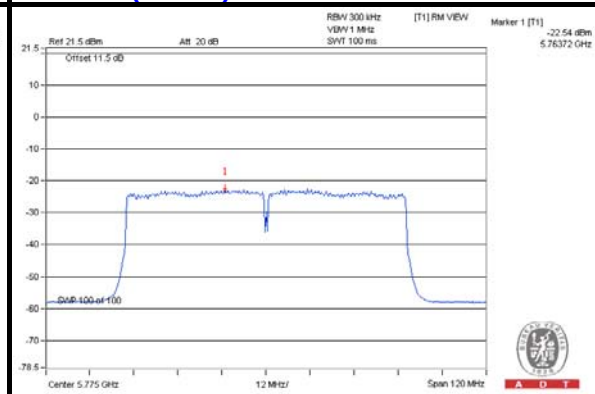
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 3: PIFA antenna

802.11a

Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
149	5745	-6.23	-4.01	29.50	PASS
157	5785	0.19	2.41	29.50	PASS
165	5825	-3.27	-1.05	29.50	PASS

NOTE:

- Gain = 6.5dBi > 6dBi, so the power density limit shall be reduced to $30-(6.5-6) = 29.50$ dBm.

802.11n (HT20)

Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Duty Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
149	5745	-6.99	-4.77	0.10	-4.67	29.50	PASS
157	5785	-2.14	0.08	0.10	0.18	29.50	PASS
165	5825	-3.13	-0.91	0.10	-0.81	29.50	PASS

NOTE:

- Gain = 6.5dBi > 6dBi, so the power density limit shall be reduced to $30-(6.5-6) = 29.50$ dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

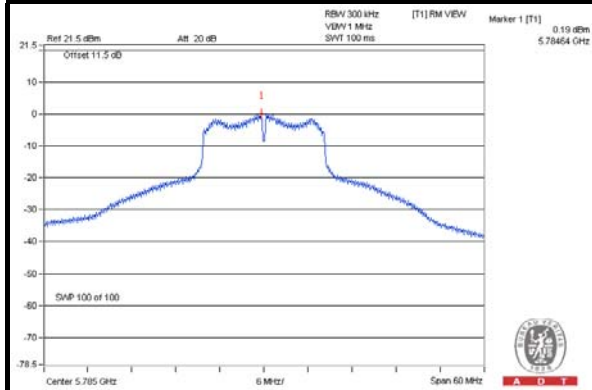
Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Duty Factor	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	PASS /FAIL
151	5755	-15.04	-12.82	0.14	-12.68	29.50	PASS
159	5795	-6.93	-4.71	0.14	-4.57	29.50	PASS

NOTE:

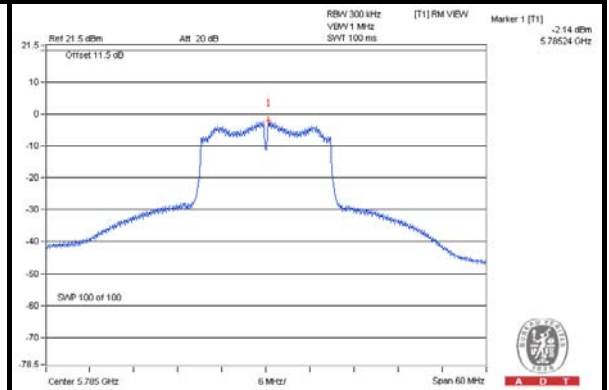
- Gain = 6.5dBi > 6dBi, so the power density limit shall be reduced to $30-(6.5-6) = 29.50$ dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

SPECTRUM PLOT OF WORST VALUE

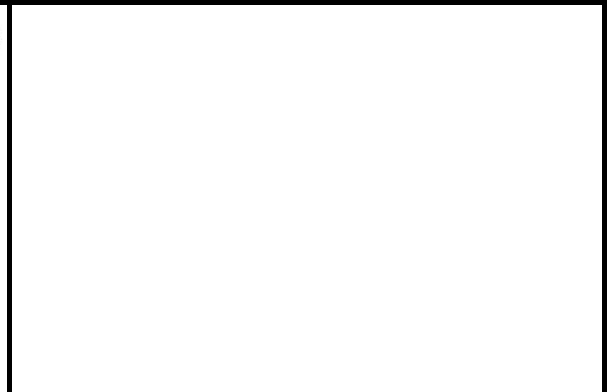
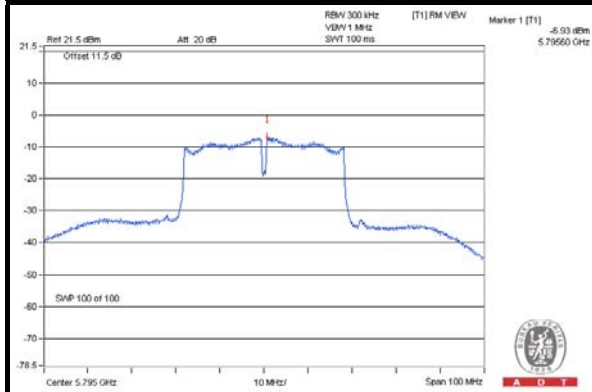
802.11a



802.11n (HT20)



802.11n (HT40)

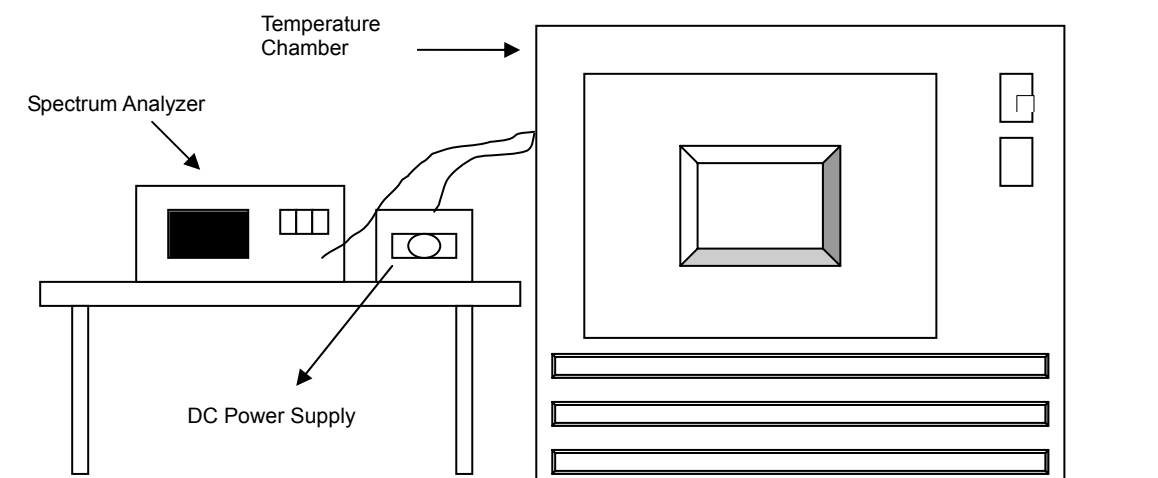


4.5 FREQUENCY STABILITY

4.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency of the carrier signal shall be maintained within band of operation

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.1.3 to get information of above instrument.

4.5.4 TEST PROCEDURE

- a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

Set the EUT transmit at un-modulation mode to test frequency stability.

4.5.7 TEST RESULTS

Radio 2: Dipole antenna

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5240MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	55	5240.0105	0.00020	5240.0075	0.00014	5240.0089	0.00017	5240.0112	0.00021
40	55	5239.9801	-0.00038	5239.9806	-0.00037	5239.9842	-0.00030	5239.9800	-0.00038
30	55	5239.9775	-0.00043	5239.9773	-0.00043	5239.9758	-0.00046	5239.9779	-0.00042
20	55	5239.9971	-0.00006	5239.9966	-0.00006	5239.9975	-0.00005	5240.0002	0.00000
10	55	5239.9876	-0.00024	5239.9835	-0.00031	5239.9854	-0.00028	5239.9840	-0.00031
0	55	5240.0167	0.00032	5240.0144	0.00027	5240.0172	0.00033	5240.0168	0.00032
-10	55	5240.0099	0.00019	5240.0097	0.00019	5240.0096	0.00018	5240.0089	0.00017
-20	55	5239.9934	-0.00013	5239.9945	-0.00010	5239.9921	-0.00015	5239.9899	-0.00019
-30	55	5240.0128	0.00024	5240.0092	0.00018	5240.0093	0.00018	5240.0089	0.00017

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5240MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	63.25	5239.9972	-0.00005	5239.9963	-0.00007	5239.9981	-0.00004	5239.9992	-0.00002
	55	5239.9971	-0.00006	5239.9966	-0.00006	5239.9975	-0.00005	5240.0002	0.00000
	46.75	5239.9978	-0.00004	5239.9968	-0.00006	5239.9980	-0.00004	5240.0004	0.00001

Radio 2: Patch antenna

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5240MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	55	5240.0105	0.00020	5240.0075	0.00014	5240.0089	0.00017	5240.0112	0.00021
40	55	5239.9801	-0.00038	5239.9806	-0.00037	5239.9842	-0.00030	5239.9800	-0.00038
30	55	5239.9775	-0.00043	5239.9773	-0.00043	5239.9758	-0.00046	5239.9779	-0.00042
20	55	5239.9971	-0.00006	5239.9966	-0.00006	5239.9975	-0.00005	5240.0002	0.00000
10	55	5239.9876	-0.00024	5239.9835	-0.00031	5239.9854	-0.00028	5239.9840	-0.00031
0	55	5240.0167	0.00032	5240.0144	0.00027	5240.0172	0.00033	5240.0168	0.00032
-10	55	5240.0099	0.00019	5240.0097	0.00019	5240.0096	0.00018	5240.0089	0.00017
-20	55	5239.9934	-0.00013	5239.9945	-0.00010	5239.9921	-0.00015	5239.9899	-0.00019
-30	55	5240.0128	0.00024	5240.0092	0.00018	5240.0093	0.00018	5240.0089	0.00017

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5240MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	63.25	5239.9972	-0.00005	5239.9963	-0.00007	5239.9981	-0.00004	5239.9992	-0.00002
	55	5239.9971	-0.00006	5239.9966	-0.00006	5239.9975	-0.00005	5240.0002	0.00000
	46.75	5239.9978	-0.00004	5239.9968	-0.00006	5239.9980	-0.00004	5240.0004	0.00001

Radio 2: Sector antenna

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5240MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	55	5240.0105	0.00020	5240.0075	0.00014	5240.0089	0.00017	5240.0112	0.00021
40	55	5239.9801	-0.00038	5239.9806	-0.00037	5239.9842	-0.00030	5239.9800	-0.00038
30	55	5239.9775	-0.00043	5239.9773	-0.00043	5239.9758	-0.00046	5239.9779	-0.00042
20	55	5239.9971	-0.00006	5239.9966	-0.00006	5239.9975	-0.00005	5240.0002	0.00000
10	55	5239.9876	-0.00024	5239.9835	-0.00031	5239.9854	-0.00028	5239.9840	-0.00031
0	55	5240.0167	0.00032	5240.0144	0.00027	5240.0172	0.00033	5240.0168	0.00032
-10	55	5240.0099	0.00019	5240.0097	0.00019	5240.0096	0.00018	5240.0089	0.00017
-20	55	5239.9934	-0.00013	5239.9945	-0.00010	5239.9921	-0.00015	5239.9899	-0.00019
-30	55	5240.0128	0.00024	5240.0092	0.00018	5240.0093	0.00018	5240.0089	0.00017

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5240MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	63.25	5239.9972	-0.00005	5239.9963	-0.00007	5239.9981	-0.00004	5239.9992	-0.00002
	55	5239.9971	-0.00006	5239.9966	-0.00006	5239.9975	-0.00005	5240.0002	0.00000
	46.75	5239.9978	-0.00004	5239.9968	-0.00006	5239.998	-0.00004	5240.0004	0.00001

Radio 3: PIFA antenna

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5240MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	55	5240.0026	0.00005	5239.9999	0.00000	5240.0018	0.00003	5240.0022	0.00004
40	55	5239.9804	-0.00037	5239.9770	-0.00044	5239.9783	-0.00041	5239.9799	-0.00038
30	55	5240.0171	0.00033	5240.0173	0.00033	5240.0130	0.00025	5240.0173	0.00033
20	55	5240.0205	0.00039	5240.0180	0.00034	5240.0175	0.00033	5240.0194	0.00037
10	55	5239.9786	-0.00041	5239.9751	-0.00048	5239.9774	-0.00043	5239.9781	-0.00042
0	55	5240.0218	0.00042	5240.0225	0.00043	5240.0239	0.00046	5240.0191	0.00036
-10	55	5239.9957	-0.00008	5239.9960	-0.00008	5239.9936	-0.00012	5239.9909	-0.00017
-20	55	5240.0051	0.00010	5240.0038	0.00007	5240.0083	0.00016	5240.0057	0.00011
-30	55	5239.9871	-0.00025	5239.9899	-0.00019	5239.9887	-0.00022	5239.9901	-0.00019

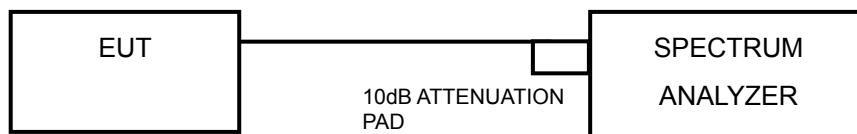
FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5240MHz									
TEMP. (°C)	POWER SUPPLY (Vdc)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	63.25	5240.0199	0.00038	5240.0173	0.00033	5240.0179	0.00034	5240.0199	0.00038
	55	5240.0205	0.00039	5240.0180	0.00034	5240.0175	0.00033	5240.0194	0.00037
	46.75	5240.0206	0.00039	5240.0190	0.00036	5240.0166	0.00032	5240.0203	0.00039

4.6 6dB BANDWIDTH MEASUREMENT

4.6.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.6.2 TEST SETUP



4.6.3 TEST INSTRUMENTS

Refer to section 4.1.2 to get information of above instrument.

4.6.4 TEST PROCEDURE

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.6.5 DEVIATION FROM TEST STANDARD

No deviation.

4.6.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.6.7 TEST RESULTS

Radio 2: Dipole antenna

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	16.39	16.48	0.5	PASS
157	5785	16.44	16.47	0.5	PASS
165	5825	16.45	16.47	0.5	PASS

802.11n (HT20)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.64	17.71	0.5	PASS
157	5785	17.68	17.71	0.5	PASS
165	5825	17.67	17.68	0.5	PASS

802.11n (HT40)

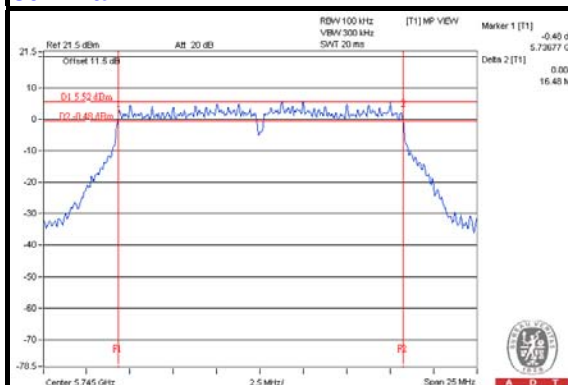
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.46	36.50	0.5	PASS
159	5795	36.43	36.49	0.5	PASS

802.11ac (VHT80)

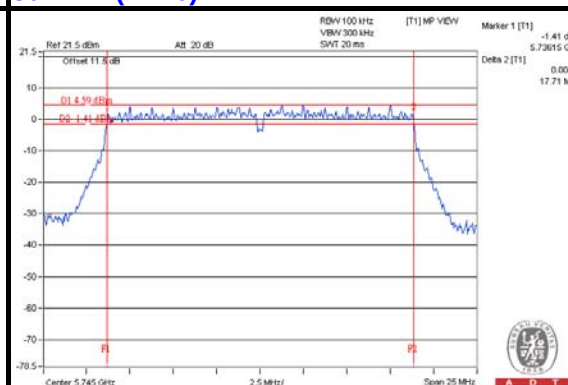
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
42	5210	75.72	76.21	0.5	PASS

SPECTRUM PLOT OF WORST VALUE

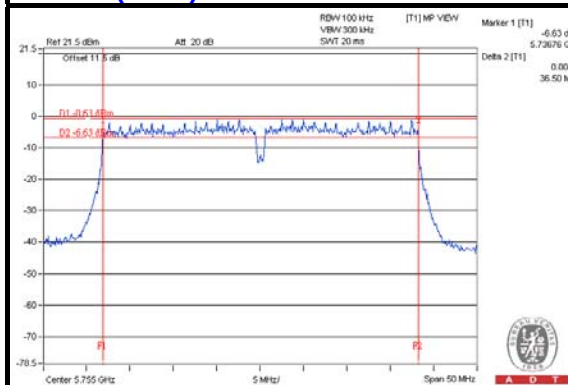
802.11a



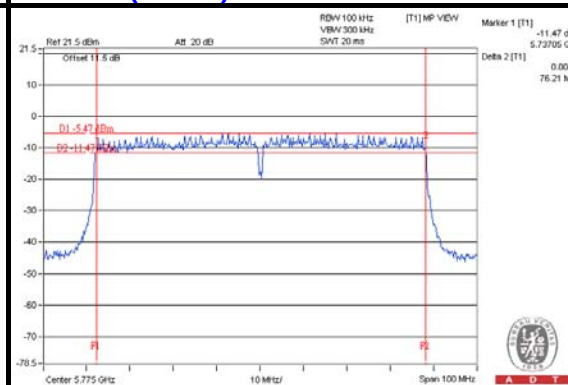
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Patch antenna

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	16.46	16.46	0.5	PASS
157	5785	16.43	16.42	0.5	PASS
165	5825	16.41	16.46	0.5	PASS

802.11n (HT20)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.69	17.71	0.5	PASS
157	5785	17.67	17.69	0.5	PASS
165	5825	17.64	17.68	0.5	PASS

802.11n (HT40)

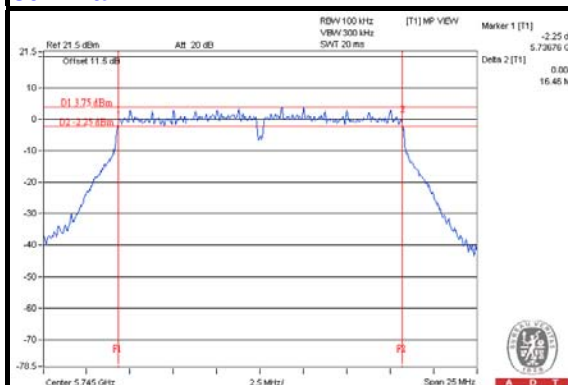
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.49	36.51	0.5	PASS
159	5795	36.47	36.47	0.5	PASS

802.11ac (VHT80)

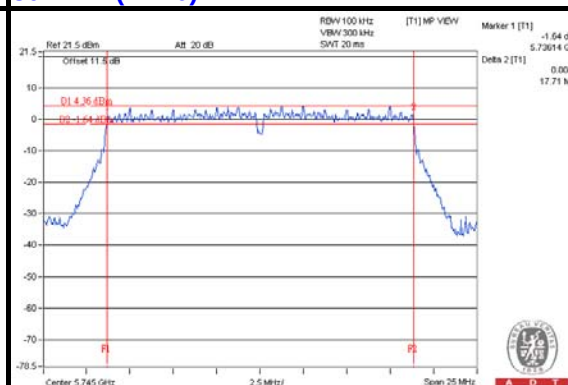
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
42	5210	76.45	76.46	0.5	PASS

SPECTRUM PLOT OF WORST VALUE

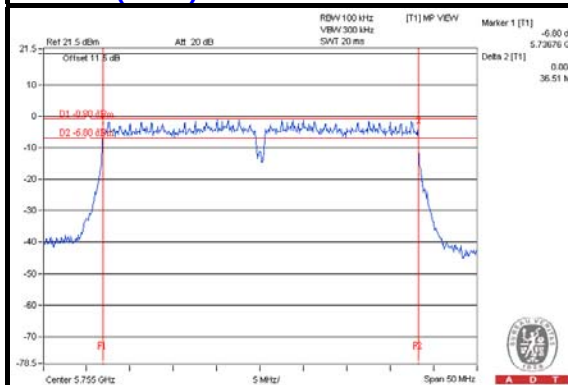
802.11a



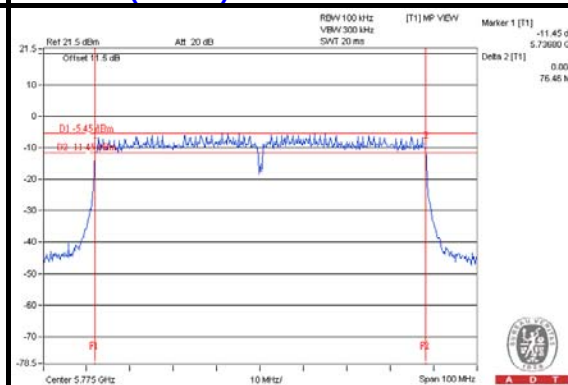
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 2: Sector antenna

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	16.44	16.48	0.5	PASS
157	5785	16.46	16.47	0.5	PASS
165	5825	16.41	16.46	0.5	PASS

802.11n (HT20)

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
149	5745	17.67	17.69	0.5	PASS
157	5785	17.67	17.73	0.5	PASS
165	5825	17.67	17.68	0.5	PASS

802.11n (HT40)

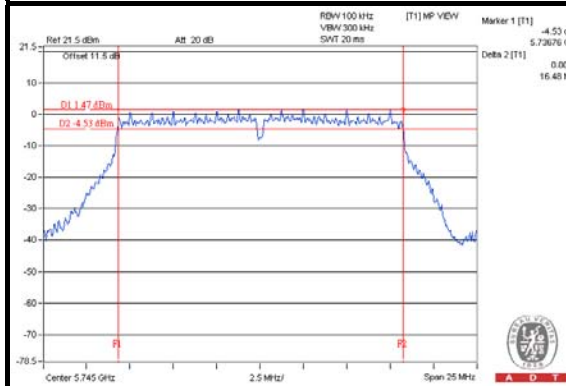
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
151	5755	36.50	36.49	0.5	PASS
159	5795	36.50	36.49	0.5	PASS

802.11ac (VHT80)

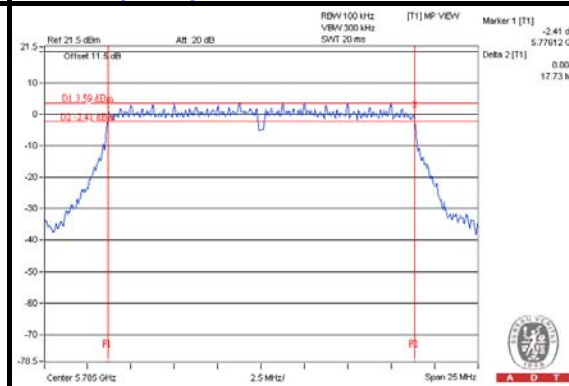
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
42	5210	76.38	76.50	0.5	PASS

SPECTRUM PLOT OF WORST VALUE

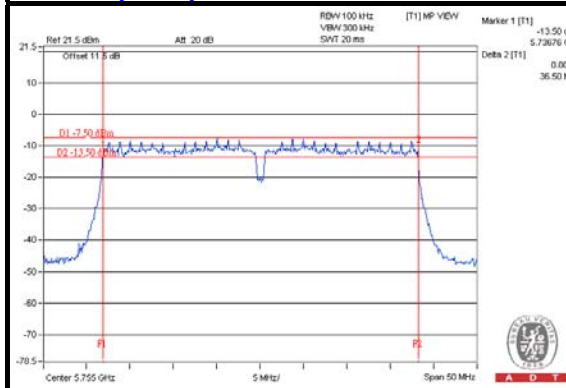
802.11a



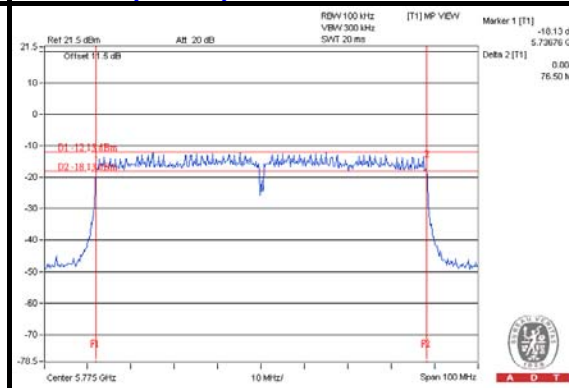
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Radio 3: PIFA antenna

802.11a

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
149	5745	15.19	0.5	PASS
157	5785	15.34	0.5	PASS
165	5825	15.18	0.5	PASS

802.11n (HT20)

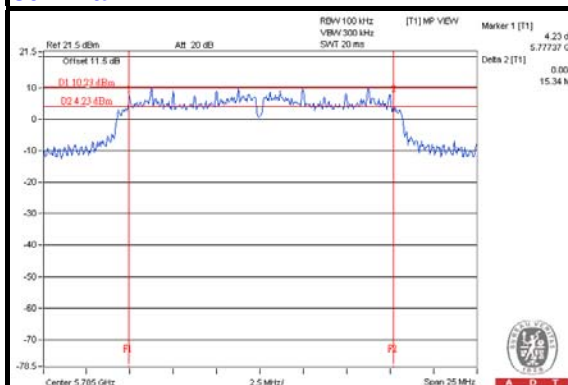
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
149	5745	15.20	0.5	PASS
157	5785	15.17	0.5	PASS
165	5825	15.36	0.5	PASS

802.11n (HT40)

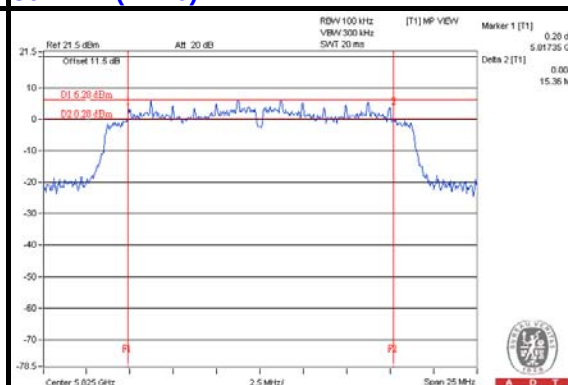
CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
151	5755	35.26	0.5	PASS
159	5795	36.30	0.5	PASS

SPECTRUM PLOT OF WORST VALUE

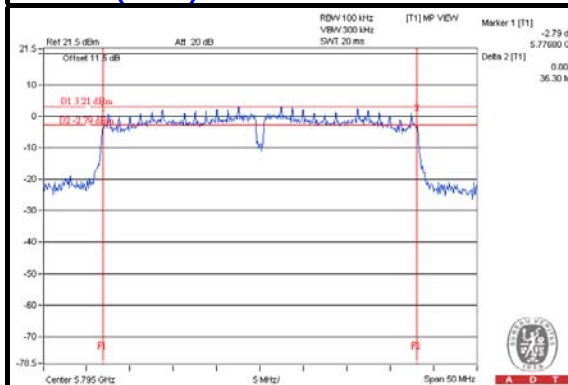
802.11a



802.11n (HT20)



802.11n (HT40)



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

6. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

7. APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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