

FCC Test Report

Report No.: RF130710E11H-1

FCC ID: MCLT77H462

Test Model: T77H462

Received Date: Oct. 14, 2015

Test Date: Nov. 24 to 25, 2015

Issued Date: Dec. 14, 2015

Applicant: Hon Hai PRECISION IND.CO.,LTD

Address: 5F-1,5 Hsin-An Road Hsinchu, Science-Based Industrial Park Taiwan,
R.O.C.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

Test Location (1): E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
Taiwan R.O.C.

Test Location (2): No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin
Chu Hsien 307, Taiwan R.O.C.



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A D T

Release Control Record

Issue No.	Description	Date Issued
RF130710E11H-1	Original release.	Dec. 14, 2015



1 Certificate of Conformity

Product: 802.11abgn+BT4.0 module

Brand: FOXCONN

Test Model: T77H462

Sample Status: ENGINEERING SAMPLE

Applicant: Hon Hai PRECISION IND.CO.,LTD

Test Date: Nov. 24 to 25, 2015

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10: 2013

The above equipment 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 : Midoli Peng , **Date:** Dec. 14, 2015
Midoli Peng / Specialist

Approved by : May Chen , **Date:** Dec. 14, 2015
May Chen / Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (SECTION 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b) (1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -0.1dB at 15600.00MHz, 5725.00MHz, 15780.00MHz, 5860.00MHz, & 5470.00MHz
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	Antenna connector is i-pex(MHF) not a standard connector.

- NOTE:** 1. Upgraded the standard to section 15.407 under new rule and added two sets of new antennas.
 2. The DFS report was recorded in another test report.

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	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	30MHz ~1GHz	5.19 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	3.43 dB
	6GHz ~ 18GHz	3.49 dB
	18GHz ~ 40GHz	4.11 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	802.11abgn+BT4.0 module
Brand	FOXCONN
Test Model	T77H462
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	DC 3.3V
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM GFSK(BT <LE> mode) for DTS GFSK, $\pi/4$ -DQPSK, 8DPSK for FHSS
Modulation Technology	DSSS, OFDM, DTS, FHSS
Transfer Rate	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n: up to 300Mbps BT-LE (GFSK): 1Mbps BT-EDR: up to 3Mbps
Operating Frequency	For 15.407 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz, 5.5 ~ 5.7GHz, 5.745 ~ 5.825GHz For 15.247 2.4GHz : 2.412 ~ 2.462GHz, BT-LE(GFSK): 2.402 ~ 2.480GHz BT-EDR: 2.402 ~ 2.480GHz
Number of Channel	For 15.407(5GHz) 24 for 802.11a, 802.11n (HT20) 11 for 802.11n (HT40) For 15.247(2.4GHz) 2.4GHz : 11 for 802.11b, 802.11g, 802.11n (HT20) BT-LE(GFSK): 40 BT-EDR: 79
Output Power	For 15.407 802.11a: 76.913mW 802.11n (HT20): 137.568mW 802.11n (HT40): 94.695mW For 15.247 802.11b: 170.216mW 802.11g: 229.615mW 802.11n (HT20): 319.012mW BT-LE(GFSK): 6.237mW BT-EDR: 9.099 mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with the Report No.: RF130710E11E-1 design is as the following:

- ◆ Upgraded the standard to section 15.407 under new rule.
- ◆ Added two sets of new antennas as below table:

Original antenna							
Antenna Set 1							
Transmitter Circuit	Brand	Model	Antenna Type	Antenna Gain (dBi)	Frequency range (MHz to MHz)	Connector Type	
Chain (0)	Foxconn	T77H462	PIFA	-0.6	2400~2500	MHF4	
				-2.3	5150~5850		
Chain (1)	Foxconn	T77H462	PIFA	-0.6	2400~2500	MHF4	
				-2.3	5150~5850		
Antenna Set 2							
Transmitter Circuit	Brand	Model	Antenna Type	Antenna Gain (dBi) <Including cable loss>	Frequency range (MHz to MHz)	Cable Length (mm)	Connector Type
Chain (0) & Chain (1)	Wistron Neweb Corporation	DC33001GL00	PIFA	1.32	2400~2500	55	MHF4 (i-peX)
				1.62	5150-5350		
				-1.84	5470-5725		
				-2.12	5725-5850		
Antenna Set 3							
Transmitter Circuit	Brand	Model	Antenna Type	Antenna Gain (dBi) <Including cable loss>	Frequency range (MHz to MHz)	Cable Length (mm)	Connector Type
Chain (0) & Chain (1)	Wistron Neweb Corporation	DC33001GL10	PIFA	0.48	2400~2500	239	MHF4 (i-peX)
				-2.19	5150-5350		
				-2.70	5470-5725		
				-1.77	5725-5850		
Antenna Set 4							
Transmitter Circuit	Antenna P/N	Manufacturer	Antenna Type	Cable Assembly P/N and Information	Frequency range (MHz to MHz)	Antenna Gain (dBi) <Including cable loss>	Antenna Gain (dBi) <Excluding cable loss>
Chain (0)	Main Antenna (P/N: LA22RF754-1H)	LUXSHARE-ICT Co., Ltd.	PIFA	50 ohm coaxial cable Cable length:750 mm Diameter: Lowloss 1.13mm	2400-2500	0.43	2.68
					5150-5350	-8.70	-5.15
					5470-5725	-8.82	-5.15
					5725-5850	-8.98	-5.25
Chain (1)	Auxiliary Antenna (P/N: LA22RF755-1H)	LUXSHARE-ICT Co., Ltd.	PIFA	50 ohm coaxial cable Cable length: 750 mm Diameter: Lowloss1.13 mm	2400-2500	0.43	2.68
					5150-5350	-8.70	-5.15
					5470-5725	-8.82	-5.15
					5725-5850	-8.98	-5.25

Antenna Set 5									
Transmitter Circuit	Antenna P/N	Manufacturer	Antenna Type	Cable Assembly P/N and Information	Frequency range (MHz to MHz)	Antenna Gain (dBi) <Including cable loss>	Antenna Gain (dBi) <Excluding cable loss>	Cable loss max.(dB)	VSWR
Chain (0)	Main Antenna (P/N: LA22RF764-1H)	LUXSHARE -ICT Co., Ltd.	PIFA	50 ohm coaxial cable Cable length:220 mm Diameter:1.13mm	2400-2500	2.34	3.0	0.66	2.5 max
					5150-5350	0.67	1.71	1.04	2.5 max
					5470-5725	0.15	1.22	1.07	2.5 max
					5725-5850	-0.54	0.55	1.09	2.5 max
Chain (1)	Auxiliary Antenna (P/N: LA22RF765-1H)	LUXSHARE -ICT Co., Ltd.	PIFA	50 ohm coaxial cable Cable length: 250 mm Diameter:1.13 mm	2400-2500	0.83	1.58	0.75	2.5 max
					5150-5350	2.05	3.23	1.18	2.5 max
					5470-5725	0.61	1.84	1.23	2.5 max
					5725-5850	0.61	1.85	1.24	2.5 max

Newly antenna

Antenna Set 6						
Transmitter Circuit	Antenna P/N	Manufacturer	Antenna Type	Cable Assembly P/N and Information	Frequency range (MHz to MHz)	Antenna Gain (dBi) <Including cable loss>
Chain (0)	Main Antenna (P/N: 1415-04LN000)	WNC	PIFA	Black 1.13(dia) x 50mm	2400-2500	0.72
					5150-5350	1.75
					5470-5725	1.55
					5725-5850	0.41
Chain (1)	Auxiliary Antenna (P/N: 1415-04LP000)	WNC	PIFA	White 1.13(dia) x 190mm	2400-2500	-0.47
					5150-5350	-1.00
					5470-5725	0.77
					5725-5850	0.04

Antenna Set 7						
Transmitter Circuit	Antenna P/N	Manufacturer	Antenna Type	Cable Assembly P/N and Information	Frequency range (MHz to MHz)	Antenna Gain (dBi) <Including cable loss>
Chain (0)	Main Antenna (P/N: 1415-04LR000)	WNC	PIFA	Black 1.13(dia) x 120mm	2400-2500	0.67
					5150-5350	0.6
					5470-5725	-0.75
					5725-5850	1.25
Chain (1)	Auxiliary Antenna (P/N: 1415-04LQ000)	WNC	PIFA	White 1.13(dia) x 143mm	2400-2500	-1.59
					5150-5350	1.12
					5470-5725	0.82
					5725-5850	0.33

Note : 1. For U-NII-1, UNII-2A: Antenna 5 was chosen for final test
 2. For UNII-2C: Antenna 6 was chosen for final test
 3. For UNII-3: Antenna 7 was chosen for final test

- According to above conditions, all test items of U-NII-1, UNII-2A, UNII-2C & U-NII-3 band need to be performed, except for AC power conducted emission test item. And all data was verified to meet the requirements.
- There are Bluetooth technology and WLAN technology used for the EUT
- Bluetooth and WLAN technology can't transmit at same time.

5. The EUT incorporates a MIMO function

2.4GHz Band			
MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11b	1 ~ 11Mbps	1TX(Diversity)	2RX
802.11g	6 ~ 54Mbps	1TX(Diversity)	2RX
802.11n (HT20)	MCS 0~7	1TX(Diversity)	2RX
	MCS 8~15	1TX(Diversity) / 2TX	2RX
5GHz Band			
MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11a	6 ~ 54Mbps	1TX(Diversity)	2RX
802.11n (HT20)	MCS 0~7	1TX(Diversity)	2RX
	MCS 8~15	2TX	2RX
802.11n (HT40)	MCS 0~7	1TX(Diversity)	2RX
	MCS 8~15	2TX	2RX

6. 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):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

For 5260 ~ 5320MHz

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

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

For 5500 ~ 5700MHz

11 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

5 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

For 5745 ~ 5825MHz:

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

Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

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. "-" means no effect.

2. Antenna placement had been investigated on the positioned of each 3 axis. Following worst case were found as listed below.

Below 1GHz (UNII-3)	
Antenna	Worst position
PIFA (Antenna 7)	X Plane
Above 1GHz (U-NII-1, UNII-2A)	
Antenna	Worst position
PIFA (Antenna 5)	Y Plane < The test mode was reference to the worst case in the original test report. >
Above 1GHz (UNII-2C)	
Antenna	Worst position
PIFA (Antenna 6)	Z Plane
Above 1GHz (UNII-3)	
Antenna	Worst position
PIFA (Antenna 7)	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.

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6
802.11n (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	13
802.11n (HT40)		38 to 46	38, 46	OFDM	BPSK	27
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6
802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	13
802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	27
802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6
802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	13
802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	27
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11n (HT20)		149 to 165	149, 157, 165	OFDM	BPSK	13
802.11n (HT40)		151 to 159	151, 159	OFDM	BPSK	27

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.

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11n (HT20)	5180-5240	36 to 48	157	OFDM	BPSK	13
	5260-5320	52 to 64				
	5500-5700	100 to 140				
	5745-5825	149 to 165				

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.

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6
802.11n (HT20)		36 to 48	36, 40, 48	OFDM	BPSK	13
802.11n (HT40)		38 to 46	38, 46	OFDM	BPSK	27
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6
802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	13
802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	27
802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6
802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	13
802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	27
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6
802.11n (HT20)		149 to 165	149, 157, 165	OFDM	BPSK	13
802.11n (HT40)		151 to 159	151, 159	OFDM	BPSK	27

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE \geq 1G	26deg. C, 73%RH	120Vac, 60Hz	Tim Ho
RE $<$ 1G	25deg. C, 67%RH	120Vac, 60Hz	Robert Cheng
APCM	25deg. C, 60%RH	120Vac, 60Hz	Anderson Chen

3.3 Duty Cycle of Test Signal

If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

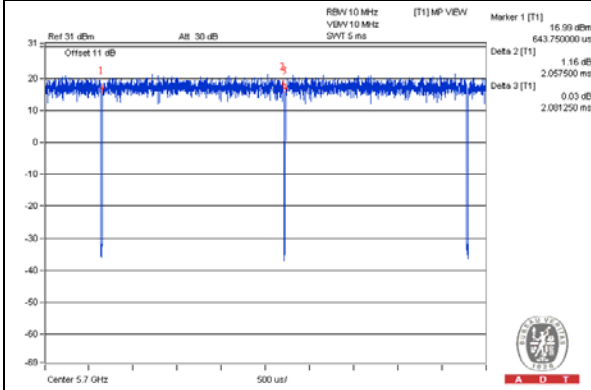
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11a: Duty cycle = $2.058 \text{ ms} / 2.081 \text{ ms} = 0.989$

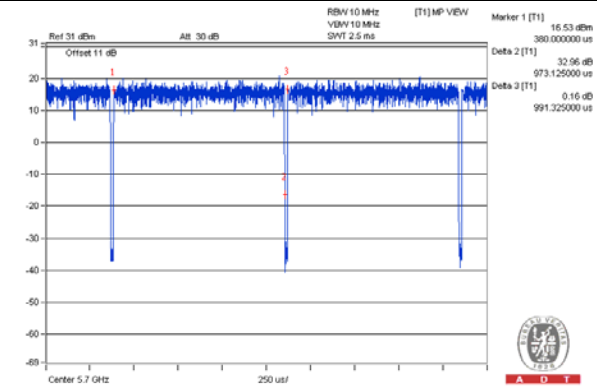
802.11n (HT20): Duty cycle = $0.973 \text{ ms} / 0.991 \text{ ms} = 0.982$

802.11n (HT40): Duty cycle = $0.483 \text{ ms} / 0.502 \text{ ms} = 0.962$, Duty factor = $10 * \log(1/0.962) = 0.17$

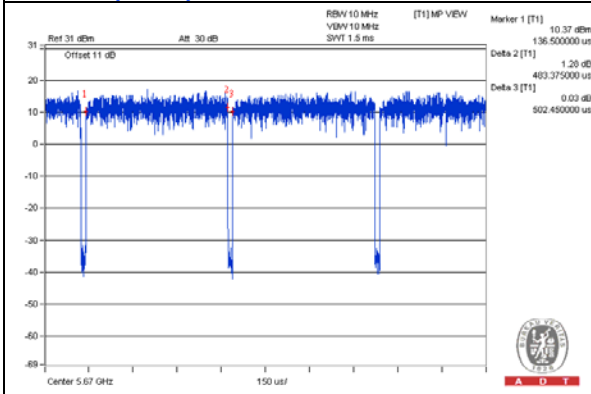
802.11a



802.11n (HT20)



802.11n (HT40)



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.

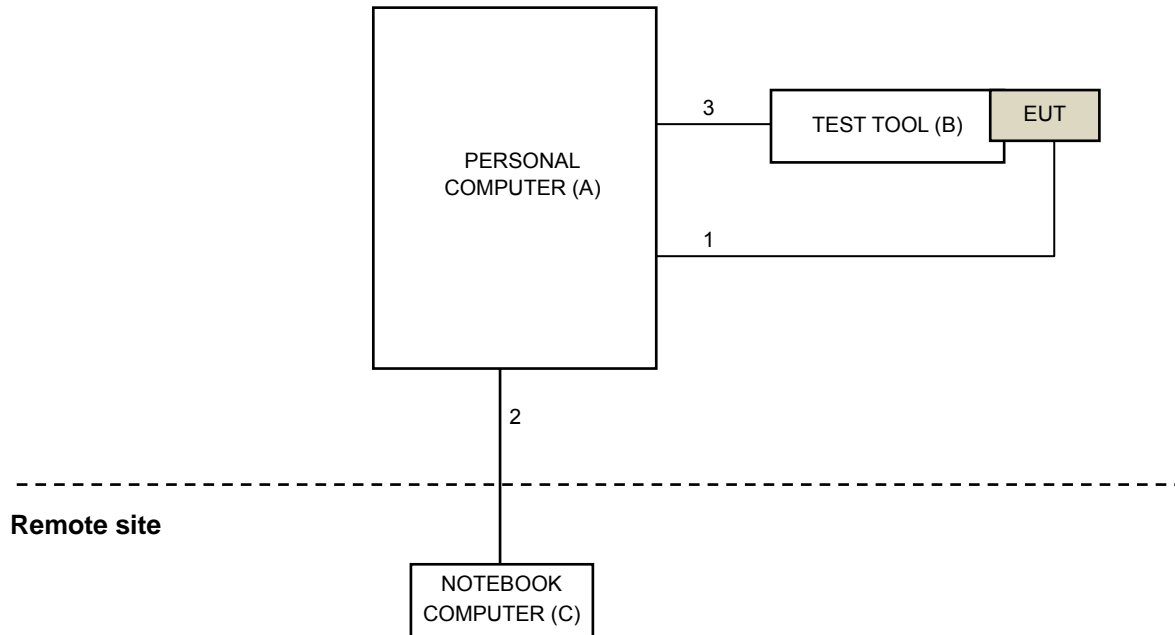
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	PERSONAL COMPUTER	DELL	DCNE	HRJB32S	FCC DoC	Provided by Lab
B.	TEST TOOL	Foxconn	NA	NA	NA	Supplied by Client
C.	NOTEBOOK COMPUTER	DELL	PP32LA	DSL32S	FCC DoC	Provided by Lab

Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Mini USB to USB	1	1	No	0	Provided by Lab
2.	RJ-45	1	10	No	0	Provided by Lab
3.	Data	1	0.5	No	0	Supplied by Client

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standard

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

FCC Part 15, Subpart E (15.407)
789033 D02 General UNII Test Procedure New Rules v01
662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

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

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.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedure 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:

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

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY54450088	July 24, 2015	July 23, 2016
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-06	Nov. 11, 2015	Nov. 10, 2016
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Feb. 03, 2015	Feb. 02, 2016
RF Cable	8D	966-4-1 966-4-2 966-4-3	Apr. 03, 2015	Apr. 02, 2016
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Feb. 06, 2015	Feb. 05, 2016
Pre-Amplifier Agilent	8449B	3008A01922	Sep. 19, 2015	Sep. 18, 2016
RF Cable	EMC104-SM- SM-2000 EMC104-SM- SM-5000 EMC104-SM- SM-5000	150318 150323 150324	Mar. 31, 2015	Mar. 30, 2016
Pre-Amplifier EMCI	EMC184045	980143	Jan. 16, 2015	Jan. 15, 2016
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Feb. 05, 2015	Feb. 04, 2016
RF Cable	SUCOFLEX 104	329751/4 RF104-204	Dec. 11, 2014	Dec. 10, 2015
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA
Temperature & Humidity Chamber GIANTFORCE	GTH-150-40-S P-AR	MAA0812-008	Jan. 12, 2015	Jan. 11, 2016
Spectrum Analyzer R&S	FSV40	100964	June 26, 2015	June 25, 2016
Power Meter Anritsu	ML2495A	1014008	Apr. 28, 2015	Apr. 27, 2016
Power Sensor Anritsu	MA2411B	0917122	Apr. 28, 2015	Apr. 27, 2016

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 966 Chamber No. 4.
3. The FCC Site Registration No. is 292998
4. The CANADA Site Registration No. is 20331-2
5. Tested Date: Nov. 24 to 25, 2015

4.1.3 Test Procedure

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. 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 height of antenna 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 quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

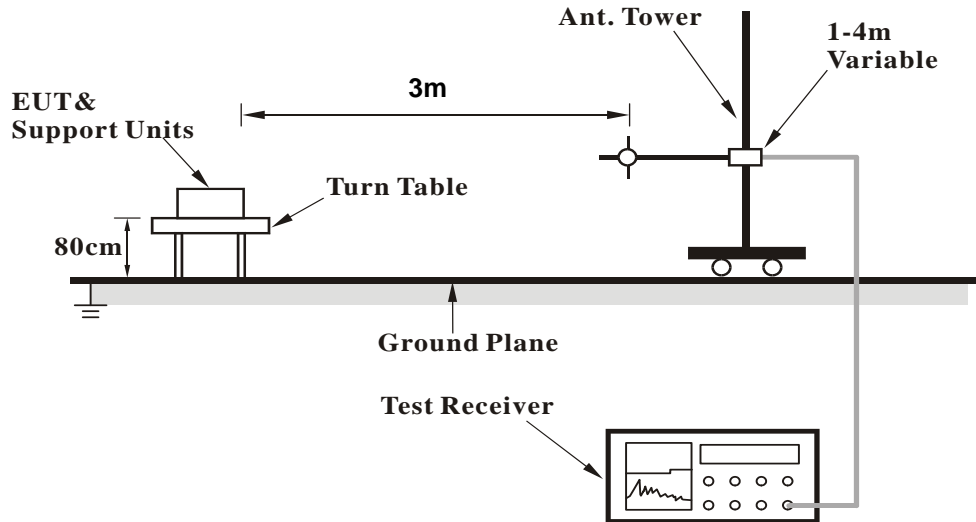
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

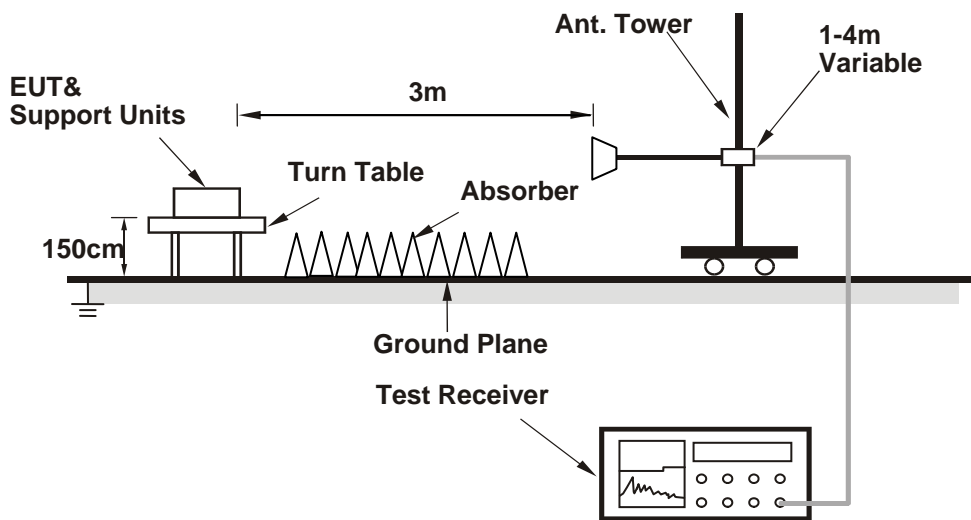
No deviation.

4.1.5 Test Setup

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

4.1.6 EUT Operating Condition

1. Connect the EUT with the support unit A (Personal Computer) and placed them on the testing table.
2. The communication partner run test program "Mtool.exe V2.0.8.0" to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.1.7 Test Results

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	5150.00	67.0 PK	74.0	-7.0	2.25 H	78	60.53	6.47
2	5150.00	53.2 AV	54.0	-0.8	2.25 H	78	46.73	6.47
3	*5180.00	105.1 PK			2.25 H	78	98.45	6.65
4	*5180.00	96.0 AV			2.25 H	78	89.35	6.65
5	#10360.00	58.2 PK	74.0	-15.8	1.21 H	98	43.99	14.21
6	#10360.00	44.4 AV	54.0	-9.6	1.21 H	98	30.19	14.21
7	15540.00	59.4 PK	74.0	-14.6	1.21 H	122	40.64	18.76
8	15540.00	46.9 AV	54.0	-7.1	1.21 H	122	28.14	18.76

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	64.9 PK	74.0	-9.1	3.13 V	355	58.43	6.47
2	5150.00	49.4 AV	54.0	-4.6	3.13 V	355	42.93	6.47
3	*5180.00	101.8 PK			3.13 V	355	95.15	6.65
4	*5180.00	93.1 AV			3.13 V	355	86.45	6.65
5	#10360.00	61.0 PK	74.0	-13.0	1.15 V	102	46.79	14.21
6	#10360.00	47.7 AV	54.0	-6.3	1.15 V	102	33.49	14.21
7	15540.00	63.0 PK	74.0	-11.0	1.30 V	107	44.24	18.76
8	15540.00	50.8 AV	54.0	-3.2	1.30 V	107	32.04	18.76

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) – Pre-Amplifier 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	5150.00	67.5 PK	74.0	-6.5	1.19 H	71	61.03	6.47
2	5150.00	53.7 AV	54.0	-0.3	1.19 H	71	47.23	6.47
3	*5200.00	112.5 PK			1.19 H	71	105.73	6.77
4	*5200.00	102.8 AV			1.19 H	71	96.03	6.77
5	#10400.00	57.7 PK	74.0	-16.3	1.23 H	111	43.48	14.22
6	#10400.00	44.2 AV	54.0	-9.8	1.23 H	111	29.98	14.22
7	15600.00	61.7 PK	74.0	-12.3	1.28 H	77	43.36	18.34
8	15600.00	49.9 AV	54.0	-4.1	1.28 H	77	31.56	18.34

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	65.9 PK	74.0	-8.1	1.11 V	204	59.43	6.47
2	5150.00	51.7 AV	54.0	-2.3	1.11 V	204	45.23	6.47
3	*5200.00	109.6 PK			1.11 V	204	102.83	6.77
4	*5200.00	100.3 AV			1.11 V	204	93.53	6.77
5	#10400.00	61.3 PK	74.0	-12.7	1.17 V	101	47.08	14.22
6	#10400.00	48.0 AV	54.0	-6.0	1.17 V	101	33.78	14.22
7	15600.00	65.7 PK	74.0	-8.3	1.33 V	107	47.36	18.34
8	15600.00	53.9 AV	54.0	-0.1	1.33 V	107	35.56	18.34

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) – Pre-Amplifier 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	5150.00	56.8 PK	74.0	-17.2	2.74 H	86	50.33	6.47
2	5150.00	41.5 AV	54.0	-12.5	2.74 H	86	35.03	6.47
3	*5240.00	113.3 PK			2.74 H	86	106.48	6.82
4	*5240.00	103.7 AV			2.74 H	86	96.88	6.82
5	5350.00	58.9 PK	74.0	-15.1	2.74 H	86	51.86	7.04
6	5350.00	41.8 AV	54.0	-12.2	2.74 H	86	34.76	7.04
7	#10480.00	56.5 PK	74.0	-17.5	1.28 H	111	42.51	13.99
8	#10480.00	43.5 AV	54.0	-10.5	1.28 H	111	29.51	13.99
9	15720.00	61.6 PK	74.0	-12.4	1.22 H	90	42.57	19.03
10	15720.00	49.7 AV	54.0	-4.3	1.22 H	90	30.67	19.03

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	110.1 PK			3.07 V	360	103.28	6.82
2	*5240.00	100.6 AV			3.07 V	360	93.78	6.82
3	#10480.00	61.1 PK	74.0	-12.9	1.22 V	109	47.11	13.99
4	#10480.00	47.5 AV	54.0	-6.5	1.22 V	109	33.51	13.99
5	15720.00	64.8 PK	74.0	-9.2	1.20 V	117	45.77	19.03
6	15720.00	53.4 AV	54.0	-0.6	1.20 V	117	34.37	19.03

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) – Pre-Amplifier 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 52	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	55.4 PK	74.0	-18.6	1.04 H	88	48.93	6.47
2	5150.00	41.4 AV	54.0	-12.6	1.04 H	88	34.93	6.47
3	*5260.00	114.9 PK			1.04 H	88	108.05	6.85
4	*5260.00	104.2 AV			1.04 H	88	97.35	6.85
5	5350.00	61.5 PK	74.0	-12.5	1.04 H	88	54.46	7.04
6	5350.00	45.1 AV	54.0	-8.9	1.04 H	88	38.06	7.04
7	#10520.00	57.2 PK	74.0	-16.8	1.25 H	118	43.37	13.83
8	#10520.00	43.9 AV	54.0	-10.1	1.25 H	118	30.07	13.83
9	15780.00	61.3 PK	74.0	-12.7	1.25 H	87	41.94	19.36
10	15780.00	49.7 AV	54.0	-4.3	1.25 H	87	30.34	19.36

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	*5260.00	111.2 PK			3.08 V	360	104.35	6.85
2	*5260.00	100.9 AV			3.08 V	360	94.05	6.85
3	#10520.00	61.4 PK	74.0	-12.6	1.21 V	111	47.57	13.83
4	#10520.00	47.9 AV	54.0	-6.1	1.21 V	111	34.07	13.83
5	15780.00	65.3 PK	74.0	-8.7	1.24 V	118	45.94	19.36
6	15780.00	53.5 AV	54.0	-0.5	1.24 V	118	34.14	19.36

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) – Pre-Amplifier 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 60	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	*5300.00	112.9 PK			1.04 H	84	106.00	6.90
2	*5300.00	102.7 AV			1.04 H	84	95.80	6.90
3	5350.00	68.1 PK	74.0	-5.9	1.04 H	84	61.06	7.04
4	5350.00	52.1 AV	54.0	-1.9	1.04 H	84	45.06	7.04
5	10600.00	57.8 PK	74.0	-16.2	1.25 H	125	44.36	13.44
6	10600.00	44.1 AV	54.0	-9.9	1.25 H	125	30.66	13.44
7	15900.00	56.5 PK	74.0	-17.5	1.16 H	113	37.49	19.01
8	15900.00	43.4 AV	54.0	-10.6	1.16 H	113	24.39	19.01

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	*5300.00	109.6 PK			3.18 V	353	102.70	6.90
2	*5300.00	99.5 AV			3.18 V	353	92.60	6.90
3	10600.00	61.5 PK	74.0	-12.5	1.16 V	108	48.06	13.44
4	10600.00	48.0 AV	54.0	-6.0	1.16 V	108	34.56	13.44
5	15900.00	61.7 PK	74.0	-12.3	1.30 V	118	42.69	19.01
6	15900.00	49.8 AV	54.0	-4.2	1.30 V	118	30.79	19.01

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) – Pre-Amplifier 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 64	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	*5320.00	112.0 PK			2.58 H	76	105.03	6.97
2	*5320.00	101.9 AV			2.58 H	76	94.93	6.97
3	5350.00	67.0 PK	74.0	-7.0	2.58 H	76	59.96	7.04
4	5350.00	53.8 AV	54.0	-0.2	2.58 H	76	46.76	7.04
5	10640.00	58.3 PK	74.0	-15.7	1.19 H	101	44.63	13.67
6	10640.00	44.5 AV	54.0	-9.5	1.19 H	101	30.83	13.67
7	15960.00	57.1 PK	74.0	-16.9	1.20 H	101	38.26	18.84
8	15960.00	43.8 AV	54.0	-10.2	1.20 H	101	24.96	18.84

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	*5320.00	109.2 PK			3.18 V	351	102.23	6.97
2	*5320.00	98.1 AV			3.18 V	351	91.13	6.97
3	5350.00	63.4 PK	74.0	-10.6	3.18 V	351	56.36	7.04
4	5350.00	47.9 AV	54.0	-6.1	3.18 V	351	40.86	7.04
5	10640.00	59.3 PK	74.0	-14.7	1.11 V	104	45.63	13.67
6	10640.00	46.1 AV	54.0	-7.9	1.11 V	104	32.43	13.67
7	15960.00	59.4 PK	74.0	-14.6	1.36 V	117	40.56	18.84
8	15960.00	47.1 AV	54.0	-6.9	1.36 V	117	28.26	18.84

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) – Pre-Amplifier 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 100	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	#5470.00	63.7 PK	74.0	-10.3	1.17 H	113	56.41	7.29
2	#5470.00	46.9 AV	54.0	-7.1	1.17 H	113	39.61	7.29
3	*5500.00	104.5 PK			1.17 H	113	97.17	7.33
4	*5500.00	95.2 AV			1.17 H	113	87.87	7.33
5	11000.00	58.8 PK	74.0	-15.2	1.15 H	95	44.57	14.23
6	11000.00	44.9 AV	54.0	-9.1	1.15 H	95	30.67	14.23
7	#16500.00	60.1 PK	74.0	-13.9	1.26 H	62	39.13	20.97
8	#16500.00	47.3 AV	54.0	-6.7	1.26 H	62	26.33	20.97

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	#5470.00	71.8 PK	74.0	-2.2	1.00 V	226	64.51	7.29
2	#5470.00	53.7 AV	54.0	-0.3	1.00 V	226	46.41	7.29
3	*5500.00	110.6 PK			1.00 V	226	103.27	7.33
4	*5500.00	100.2 AV			1.00 V	226	92.87	7.33
5	11000.00	58.7 PK	74.0	-15.3	1.15 V	100	44.47	14.23
6	11000.00	45.9 AV	54.0	-8.1	1.15 V	100	31.67	14.23
7	#16500.00	62.5 PK	74.0	-11.5	1.30 V	107	41.53	20.97
8	#16500.00	50.2 AV	54.0	-3.8	1.30 V	107	29.23	20.97

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) – Pre-Amplifier 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 116	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	#5470.00	51.5 PK	74.0	-22.5	1.18 H	98	44.21	7.29
2	#5470.00	39.7 AV	54.0	-14.3	1.18 H	98	32.41	7.29
3	*5580.00	105.4 PK			1.18 H	98	98.22	7.18
4	*5580.00	96.2 AV			1.18 H	98	89.02	7.18
5	#5725.00	54.6 PK	74.0	-19.4	1.18 H	98	47.22	7.38
6	#5725.00	43.2 AV	54.0	-10.8	1.18 H	98	35.82	7.38
7	11160.00	58.8 PK	74.0	-15.2	1.10 H	81	44.34	14.46
8	11160.00	44.6 AV	54.0	-9.4	1.10 H	81	30.14	14.46
9	#16740.00	59.8 PK	74.0	-14.2	1.23 H	71	37.84	21.96
10	#16740.00	47.2 AV	54.0	-6.8	1.23 H	71	25.24	21.96

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	#5470.00	53.2 PK	74.0	-20.8	1.14 V	62	45.91	7.29
2	#5470.00	40.5 AV	54.0	-13.5	1.14 V	62	33.21	7.29
3	*5580.00	109.5 PK			1.14 V	62	102.32	7.18
4	*5580.00	99.8 AV			1.14 V	62	92.62	7.18
5	#5725.00	54.4 PK	74.0	-19.6	1.14 V	62	47.02	7.38
6	#5725.00	43.4 AV	54.0	-10.6	1.14 V	62	36.02	7.38
7	11160.00	58.2 PK	74.0	-15.8	1.16 V	86	43.74	14.46
8	11160.00	45.5 AV	54.0	-8.5	1.16 V	86	31.04	14.46
9	#16740.00	65.7 PK	74.0	-8.3	1.09 V	100	43.74	21.96
10	#16740.00	53.8 AV	54.0	-0.2	1.09 V	100	31.84	21.96

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) – Pre-Amplifier 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 140	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	*5700.00	103.9 PK			1.10 H	111	96.51	7.39
2	*5700.00	94.3 AV			1.10 H	111	86.91	7.39
3	#5725.00	71.0 PK	74.0	-3.0	1.10 H	111	63.62	7.38
4	#5725.00	50.0 AV	54.0	-4.0	1.10 H	111	42.62	7.38
5	11400.00	59.1 PK	74.0	-14.9	1.14 H	88	44.24	14.86
6	11400.00	45.2 AV	54.0	-8.8	1.14 H	88	30.34	14.86
7	#17100.00	59.1 PK	74.0	-14.9	1.26 H	48	36.11	22.99
8	#17100.00	46.1 AV	54.0	-7.9	1.26 H	48	23.11	22.99

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	*5700.00	107.8 PK			1.11 V	61	100.41	7.39
2	*5700.00	97.7 AV			1.11 V	61	90.31	7.39
3	#5725.00	66.8 PK	74.0	-7.2	1.11 V	61	59.42	7.38
4	#5725.00	53.6 AV	54.0	-0.4	1.11 V	61	46.22	7.38
5	11400.00	58.9 PK	74.0	-15.1	1.12 V	110	44.04	14.86
6	11400.00	46.0 AV	54.0	-8.0	1.12 V	110	31.14	14.86
7	#17100.00	61.8 PK	74.0	-12.2	1.01 V	101	38.81	22.99
8	#17100.00	50.9 AV	54.0	-3.1	1.01 V	101	27.91	22.99

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) – Pre-Amplifier 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 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	#5715.00	63.2 PK	74.0	-10.8	1.20 H	86	55.82	7.38
2	#5715.00	42.2 AV	54.0	-11.8	1.20 H	86	34.82	7.38
3	#5725.00	71.2 PK	78.2	-7.0	1.20 H	86	63.82	7.38
4	*5745.00	98.1 PK			1.20 H	86	90.72	7.38
5	*5745.00	88.1 AV			1.20 H	86	80.72	7.38
6	11490.00	58.9 PK	74.0	-15.1	1.10 H	79	44.38	14.52
7	11490.00	45.3 AV	54.0	-8.7	1.10 H	79	30.78	14.52
8	#17235.00	59.4 PK	74.0	-14.6	1.31 H	56	35.64	23.76
9	#17235.00	46.3 AV	54.0	-7.7	1.31 H	56	22.54	23.76

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	#5715.00	66.9 PK	74.0	-7.1	1.17 V	72	59.52	7.38
2	#5715.00	46.4 AV	54.0	-7.6	1.17 V	72	39.02	7.38
3	#5725.00	78.1 PK	78.2	-0.1	1.17 V	72	70.72	7.38
4	*5745.00	104.3 PK			1.17 V	72	96.92	7.38
5	*5745.00	94.2 AV			1.17 V	72	86.82	7.38
6	11490.00	57.1 PK	74.0	-16.9	1.19 V	91	42.58	14.52
7	11490.00	44.2 AV	54.0	-9.8	1.19 V	91	29.68	14.52
8	#17235.00	58.2 PK	74.0	-15.8	1.07 V	115	34.44	23.76
9	#17235.00	47.6 AV	54.0	-6.4	1.07 V	115	23.84	23.76

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) – Pre-Amplifier 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	#5715.00	59.0 PK	74.0	-15.0	1.17 H	72	51.62	7.38
2	#5715.00	46.0 AV	54.0	-8.0	1.17 H	72	38.62	7.38
3	#5725.00	66.0 PK	78.2	-12.2	1.17 H	72	58.62	7.38
4	*5785.00	106.2 PK			1.17 H	72	98.82	7.38
5	*5785.00	97.3 AV			1.17 H	72	89.92	7.38
6	#5850.00	69.6 PK	78.2	-8.6	1.17 H	72	62.35	7.25
7	#5860.00	63.0 PK	74.0	-11.0	1.17 H	72	55.78	7.22
8	#5860.00	49.2 AV	54.0	-4.8	1.17 H	72	41.98	7.22
9	11570.00	62.3 PK	74.0	-11.7	1.10 H	97	47.73	14.57
10	11570.00	48.9 AV	54.0	-5.1	1.10 H	97	34.33	14.57
11	#17355.00	61.2 PK	74.0	-12.8	1.22 H	61	37.14	24.06
12	#17355.00	49.9 AV	54.0	-4.1	1.22 H	61	25.84	24.06

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	#5715.00	69.3 PK	74.0	-4.7	1.05 V	105	61.92	7.38
2	#5715.00	52.2 AV	54.0	-1.8	1.05 V	105	44.82	7.38
3	#5725.00	71.4 PK	78.2	-6.8	1.05 V	105	64.02	7.38
4	*5785.00	112.6 PK			1.05 V	105	105.22	7.38
5	*5785.00	103.5 AV			1.05 V	105	96.12	7.38
6	#5860.00	70.7 PK	74.0	-3.3	1.05 V	105	63.48	7.22
7	#5860.00	52.3 AV	54.0	-1.7	1.05 V	105	45.08	7.22
8	11570.00	61.8 PK	74.0	-12.2	1.23 V	100	47.23	14.57
9	11570.00	48.3 AV	54.0	-5.7	1.23 V	100	33.73	14.57
10	#17355.00	62.3 PK	74.0	-11.7	1.02 V	107	38.24	24.06
11	#17355.00	51.2 AV	54.0	-2.8	1.02 V	107	27.14	24.06

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) – Pre-Amplifier 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	101.5 PK			1.11 H	105	94.19	7.31
2	*5825.00	92.2 AV			1.11 H	105	84.89	7.31
3	#5850.00	65.4 PK	78.2	-12.8	1.11 H	105	58.15	7.25
4	#5860.00	59.4 PK	74.0	-14.6	1.11 H	105	52.18	7.22
5	#5860.00	44.3 AV	54.0	-9.7	1.11 H	105	37.08	7.22
6	11650.00	58.8 PK	74.0	-15.2	1.09 H	94	44.13	14.67
7	11650.00	45.1 AV	54.0	-8.9	1.09 H	94	30.43	14.67
8	#17475.00	59.0 PK	74.0	-15.0	1.24 H	56	34.98	24.02
9	#17475.00	46.1 AV	54.0	-7.9	1.24 H	56	22.08	24.02

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	108.5 PK			1.11 V	108	101.19	7.31
2	*5825.00	98.2 AV			1.11 V	108	90.89	7.31
3	#5850.00	71.4 PK	78.2	-6.8	1.11 V	108	64.15	7.25
4	#5860.00	69.4 PK	74.0	-4.6	1.11 V	108	62.18	7.22
5	#5860.00	53.5 AV	54.0	-0.5	1.11 V	108	46.28	7.22
6	11650.00	56.6 PK	74.0	-17.4	1.24 V	88	41.93	14.67
7	11650.00	43.8 AV	54.0	-10.2	1.24 V	88	29.13	14.67
8	#17475.00	58.1 PK	74.0	-15.9	1.02 V	103	34.08	24.02
9	#17475.00	47.6 AV	54.0	-6.4	1.02 V	103	23.58	24.02

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) – Pre-Amplifier 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	68.9 PK	74.0	-5.1	2.51 H	99	62.43	6.47
2	5150.00	53.8 AV	54.0	-0.2	2.51 H	99	47.33	6.47
3	*5180.00	110.9 PK			2.51 H	99	104.25	6.65
4	*5180.00	100.2 AV			2.51 H	99	93.55	6.65
5	#10360.00	58.2 PK	74.0	-15.8	1.22 H	101	43.99	14.21
6	#10360.00	44.6 AV	54.0	-9.4	1.22 H	101	30.39	14.21
7	15540.00	59.8 PK	74.0	-14.2	1.23 H	109	41.04	18.76
8	15540.00	47.7 AV	54.0	-6.3	1.23 H	109	28.94	18.76

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	66.2 PK	74.0	-7.8	2.47 V	22	59.73	6.47
2	5150.00	49.8 AV	54.0	-4.2	2.47 V	22	43.33	6.47
3	*5180.00	107.7 PK			2.47 V	22	101.05	6.65
4	*5180.00	97.6 AV			2.47 V	22	90.95	6.65
5	#10360.00	61.7 PK	74.0	-12.3	1.14 V	131	47.49	14.21
6	#10360.00	48.5 AV	54.0	-5.5	1.14 V	131	34.29	14.21
7	15540.00	64.3 PK	74.0	-9.7	1.19 V	107	45.54	18.76
8	15540.00	51.5 AV	54.0	-2.5	1.19 V	107	32.74	18.76

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) – Pre-Amplifier 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	5150.00	65.7 PK	74.0	-8.3	1.07 H	93	59.23	6.47
2	5150.00	51.5 AV	54.0	-2.5	1.07 H	93	45.03	6.47
3	*5200.00	112.8 PK			1.07 H	93	106.03	6.77
4	*5200.00	101.8 AV			1.07 H	93	95.03	6.77
5	#10400.00	57.3 PK	74.0	-16.7	1.27 H	114	43.08	14.22
6	#10400.00	44.0 AV	54.0	-10.0	1.27 H	114	29.78	14.22
7	15600.00	61.4 PK	74.0	-12.6	1.23 H	87	43.06	18.34
8	15600.00	49.7 AV	54.0	-4.3	1.23 H	87	31.36	18.34

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	61.1 PK	74.0	-12.9	2.45 V	6	54.63	6.47
2	5150.00	45.7 AV	54.0	-8.3	2.45 V	6	39.23	6.47
3	*5200.00	110.0 PK			2.45 V	6	103.23	6.77
4	*5200.00	99.9 AV			2.45 V	6	93.13	6.77
5	#10400.00	60.9 PK	74.0	-13.1	1.06 V	120	46.68	14.22
6	#10400.00	48.1 AV	54.0	-5.9	1.06 V	120	33.88	14.22
7	15600.00	64.5 PK	74.0	-9.5	1.20 V	106	46.16	18.34
8	15600.00	53.6 AV	54.0	-0.4	1.20 V	106	35.26	18.34

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) – Pre-Amplifier 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	113.7 PK			2.64 H	115	106.88	6.82
2	*5240.00	102.6 AV			2.64 H	115	95.78	6.82
3	#10480.00	57.7 PK	74.0	-16.3	1.25 H	122	43.71	13.99
4	#10480.00	44.1 AV	54.0	-9.9	1.25 H	122	30.11	13.99
5	15720.00	61.8 PK	74.0	-12.2	1.25 H	67	42.77	19.03
6	15720.00	49.9 AV	54.0	-4.1	1.25 H	67	30.87	19.03

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	110.3 PK			2.51 V	36	103.48	6.82
2	*5240.00	100.2 AV			2.51 V	36	93.38	6.82
3	#10480.00	61.3 PK	74.0	-12.7	1.10 V	125	47.31	13.99
4	#10480.00	48.4 AV	54.0	-5.6	1.10 V	125	34.41	13.99
5	15720.00	64.4 PK	74.0	-9.6	1.26 V	108	45.37	19.03
6	15720.00	53.6 AV	54.0	-0.4	1.26 V	108	34.57	19.03

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) – Pre-Amplifier 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 52	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	*5260.00	113.8 PK			2.64 H	115	106.95	6.85
2	*5260.00	102.7 AV			2.64 H	115	95.85	6.85
3	#10520.00	57.4 PK	74.0	-16.6	1.24 H	96	43.57	13.83
4	#10520.00	43.9 AV	54.0	-10.1	1.24 H	96	30.07	13.83
5	15780.00	61.9 PK	74.0	-12.1	1.33 H	80	42.54	19.36
6	15780.00	50.0 AV	54.0	-4.0	1.33 H	80	30.64	19.36

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	*5260.00	110.9 PK			2.46 V	31	104.05	6.85
2	*5260.00	100.6 AV			2.46 V	31	93.75	6.85
3	#10520.00	60.9 PK	74.0	-13.1	1.15 V	118	47.07	13.83
4	#10520.00	48.1 AV	54.0	-5.9	1.15 V	118	34.27	13.83
5	15780.00	65.4 PK	74.0	-8.6	1.17 V	121	46.04	19.36
6	15780.00	53.9 AV	54.0	-0.1	1.17 V	121	34.54	19.36

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) – Pre-Amplifier 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 60	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	*5300.00	113.4 PK			2.63 H	104	106.50	6.90
2	*5300.00	102.7 AV			2.63 H	104	95.80	6.90
3	5350.00	69.6 PK	74.0	-4.4	2.63 H	104	62.56	7.04
4	5350.00	51.3 AV	54.0	-2.7	2.63 H	104	44.26	7.04
5	10600.00	56.9 PK	74.0	-17.1	1.20 H	106	43.46	13.44
6	10600.00	43.1 AV	54.0	-10.9	1.20 H	106	29.66	13.44
7	15900.00	62.0 PK	74.0	-12.0	1.26 H	64	42.99	19.01
8	15900.00	50.1 AV	54.0	-3.9	1.26 H	64	31.09	19.01

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	*5300.00	110.3 PK			2.50 V	22	103.40	6.90
2	*5300.00	100.2 AV			2.50 V	22	93.30	6.90
3	5350.00	65.2 PK	74.0	-8.8	2.50 V	22	58.16	7.04
4	5350.00	46.9 AV	54.0	-7.1	2.50 V	22	39.86	7.04
5	10600.00	59.9 PK	74.0	-14.1	1.20 V	132	46.46	13.44
6	10600.00	47.3 AV	54.0	-6.7	1.20 V	132	33.86	13.44
7	15900.00	65.6 PK	74.0	-8.4	1.25 V	110	46.59	19.01
8	15900.00	53.1 AV	54.0	-0.9	1.25 V	110	34.09	19.01

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) – Pre-Amplifier 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 64	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	*5320.00	110.9 PK			2.58 H	106	103.93	6.97
2	*5320.00	101.8 AV			2.58 H	106	94.83	6.97
3	5350.00	69.3 PK	74.0	-4.7	2.58 H	106	62.26	7.04
4	5350.00	53.5 AV	54.0	-0.5	2.58 H	106	46.46	7.04
5	10640.00	56.9 PK	74.0	-17.1	1.18 H	113	43.23	13.67
6	10640.00	43.7 AV	54.0	-10.3	1.18 H	113	30.03	13.67
7	15960.00	60.1 PK	74.0	-13.9	1.24 H	62	41.26	18.84
8	15960.00	48.2 AV	54.0	-5.8	1.24 H	62	29.36	18.84

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	*5320.00	106.3 PK			2.27 V	337	99.33	6.97
2	*5320.00	98.1 AV			2.27 V	337	91.13	6.97
3	5350.00	66.4 PK	74.0	-7.6	2.27 V	337	59.36	7.04
4	5350.00	49.7 AV	54.0	-4.3	2.27 V	337	42.66	7.04
5	10640.00	60.8 PK	74.0	-13.2	1.04 V	129	47.13	13.67
6	10640.00	47.9 AV	54.0	-6.1	1.04 V	129	34.23	13.67
7	15960.00	63.2 PK	74.0	-10.8	1.25 V	110	44.36	18.84
8	15960.00	50.7 AV	54.0	-3.3	1.25 V	110	31.86	18.84

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) – Pre-Amplifier 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 100	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	#5470.00	68.1 PK	74.0	-5.9	1.18 H	75	60.81	7.29
2	#5470.00	49.3 AV	54.0	-4.7	1.18 H	75	42.01	7.29
3	*5500.00	107.1 PK			1.18 H	75	99.77	7.33
4	*5500.00	97.1 AV			1.18 H	75	89.77	7.33
5	11000.00	50.3 PK	74.0	-23.7	1.03 H	180	36.07	14.23
6	11000.00	39.1 AV	54.0	-14.9	1.03 H	180	24.87	14.23
7	#16500.00	60.6 PK	74.0	-13.4	1.00 H	144	39.63	20.97
8	#16500.00	48.7 AV	54.0	-5.3	1.00 H	144	27.73	20.97

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	#5470.00	68.1 PK	74.0	-5.9	1.52 V	201	60.81	7.29
2	#5470.00	53.5 AV	54.0	-0.5	1.52 V	201	46.21	7.29
3	*5500.00	110.6 PK			1.52 V	201	103.27	7.33
4	*5500.00	100.9 AV			1.52 V	201	93.57	7.33
5	11000.00	53.8 PK	74.0	-20.2	1.17 V	105	39.57	14.23
6	11000.00	41.3 AV	54.0	-12.7	1.17 V	105	27.07	14.23
7	#16500.00	59.5 PK	74.0	-14.5	1.11 V	22	38.53	20.97
8	#16500.00	47.8 AV	54.0	-6.2	1.11 V	22	26.83	20.97

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) – Pre-Amplifier 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 116	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	#5166.00	57.8 PK	74.0	-16.2	1.22 H	71	51.22	6.58
2	#5166.00	45.8 AV	54.0	-8.2	1.22 H	71	39.22	6.58
3	*5580.00	110.2 PK			1.22 H	71	103.02	7.18
4	*5580.00	99.2 AV			1.22 H	71	92.02	7.18
5	11160.00	50.2 PK	74.0	-23.8	1.00 H	162	35.74	14.46
6	11160.00	39.3 AV	54.0	-14.7	1.00 H	162	24.84	14.46
7	#16740.00	65.8 PK	74.0	-8.2	1.00 H	143	43.84	21.96
8	#16740.00	53.5 AV	54.0	-0.5	1.00 H	143	31.54	21.96

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	#5166.00	59.9 PK	74.0	-14.1	1.17 V	223	53.32	6.58
2	#5166.00	50.6 AV	54.0	-3.4	1.17 V	223	44.02	6.58
3	*5580.00	113.9 PK			1.17 V	223	106.72	7.18
4	*5580.00	102.9 AV			1.17 V	223	95.72	7.18
5	11160.00	55.1 PK	74.0	-18.9	1.19 V	111	40.64	14.46
6	11160.00	42.7 AV	54.0	-11.3	1.19 V	111	28.24	14.46
7	#16740.00	65.2 PK	74.0	-8.8	1.17 V	100	43.24	21.96
8	#16740.00	53.5 AV	54.0	-0.5	1.17 V	100	31.54	21.96

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) – Pre-Amplifier 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 140	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	*5700.00	106.2 PK			1.24 H	80	98.81	7.39
2	*5700.00	95.2 AV			1.24 H	80	87.81	7.39
3	#5725.00	62.8 PK	74.0	-11.2	1.24 H	80	55.42	7.38
4	#5725.00	49.6 AV	54.0	-4.4	1.24 H	80	42.22	7.38
5	11400.00	50.1 PK	74.0	-23.9	1.05 H	166	35.24	14.86
6	11400.00	38.9 AV	54.0	-15.1	1.05 H	166	24.04	14.86
7	#17100.00	64.1 PK	74.0	-9.9	1.00 H	138	41.11	22.99
8	#17100.00	52.9 AV	54.0	-1.1	1.00 H	138	29.91	22.99

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	*5700.00	109.5 PK			1.00 V	222	102.11	7.39
2	*5700.00	98.9 AV			1.00 V	222	91.51	7.39
3	#5725.00	68.9 PK	74.0	-5.1	1.00 V	222	61.52	7.38
4	#5725.00	53.1 AV	54.0	-0.9	1.00 V	222	45.72	7.38
5	11400.00	52.3 PK	74.0	-21.7	1.23 V	117	37.44	14.86
6	11400.00	40.6 AV	54.0	-13.4	1.23 V	117	25.74	14.86
7	#17100.00	62.7 PK	74.0	-11.3	1.00 V	101	39.71	22.99
8	#17100.00	51.4 AV	54.0	-2.6	1.00 V	101	28.41	22.99

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) – Pre-Amplifier 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 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	#5715.00	62.7 PK	74.0	-11.3	1.12 H	85	55.32	7.38
2	#5715.00	49.2 AV	54.0	-4.8	1.12 H	85	41.82	7.38
3	#5725.00	69.0 PK	78.2	-9.2	1.12 H	85	61.62	7.38
4	*5745.00	106.3 PK			1.12 H	85	98.92	7.38
5	*5745.00	95.2 AV			1.12 H	85	87.82	7.38
6	11490.00	57.9 PK	74.0	-16.1	1.11 H	101	43.38	14.52
7	11490.00	43.2 AV	54.0	-10.8	1.11 H	101	28.68	14.52
8	#17235.00	57.1 PK	74.0	-16.9	1.25 H	54	33.34	23.76
9	#17235.00	46.2 AV	54.0	-7.8	1.25 H	54	22.44	23.76

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	#5715.00	72.9 PK	74.0	-1.1	1.11 V	104	65.52	7.38
2	#5715.00	53.8 AV	54.0	-0.2	1.11 V	104	46.42	7.38
3	#5725.00	77.9 PK	78.2	-0.3	1.11 V	104	70.52	7.38
4	*5745.00	110.1 PK			1.11 V	104	102.72	7.38
5	*5745.00	98.2 AV			1.11 V	104	90.82	7.38
6	11490.00	58.1 PK	74.0	-15.9	1.28 V	128	43.58	14.52
7	11490.00	44.5 AV	54.0	-9.5	1.28 V	128	29.98	14.52
8	#17235.00	58.1 PK	74.0	-15.9	1.05 V	96	34.34	23.76
9	#17235.00	47.4 AV	54.0	-6.6	1.05 V	96	23.64	23.76

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) – Pre-Amplifier 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	#5715.00	58.9 PK	74.0	-15.1	1.13 H	68	51.52	7.38
2	#5715.00	45.7 AV	54.0	-8.3	1.13 H	68	38.32	7.38
3	#5725.00	66.4 PK	78.2	-11.8	1.13 H	68	59.02	7.38
4	*5785.00	111.6 PK			1.13 H	68	104.22	7.38
5	*5785.00	101.2 AV			1.13 H	68	93.82	7.38
6	#5850.00	69.1 PK	78.2	-9.1	1.13 H	68	61.85	7.25
7	#5860.00	62.9 PK	74.0	-11.1	1.13 H	68	55.68	7.22
8	#5860.00	49.2 AV	54.0	-4.8	1.13 H	68	41.98	7.22
9	11570.00	59.1 PK	74.0	-14.9	1.09 H	106	44.53	14.57
10	11570.00	46.4 AV	54.0	-7.6	1.09 H	106	31.83	14.57
11	#17355.00	59.9 PK	74.0	-14.1	1.24 H	65	35.84	24.06
12	#17355.00	49.2 AV	54.0	-4.8	1.24 H	65	25.14	24.06

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	#5715.00	68.2 PK	74.0	-5.8	1.08 V	107	60.82	7.38
2	#5715.00	51.8 AV	54.0	-2.2	1.08 V	107	44.42	7.38
3	#5725.00	70.6 PK	78.2	-7.6	1.08 V	107	63.22	7.38
4	*5785.00	114.6 PK			1.08 V	107	107.22	7.38
5	*5785.00	104.3 AV			1.08 V	107	96.92	7.38
6	#5850.00	72.7 PK	78.2	-5.5	1.08 V	107	65.45	7.25
7	#5860.00	69.1 PK	74.0	-4.9	1.08 V	107	61.88	7.22
8	#5860.00	53.5 AV	54.0	-0.5	1.08 V	107	46.28	7.22
9	11570.00	62.0 PK	74.0	-12.0	1.29 V	85	47.43	14.57
10	11570.00	48.2 AV	54.0	-5.8	1.29 V	85	33.63	14.57
11	#17355.00	62.5 PK	74.0	-11.5	1.02 V	120	38.44	24.06
12	#17355.00	51.6 AV	54.0	-2.4	1.02 V	120	27.54	24.06

REMARKS:

- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
- The other emission levels were very low against the limit.
- Margin value = Emission Level – Limit value
- " * ": Fundamental frequency.
- " # ": 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	107.6 PK			1.18 H	62	100.29	7.31
2	*5825.00	96.2 AV			1.18 H	62	88.89	7.31
3	#5850.00	69.2 PK	78.2	-9.0	1.18 H	62	61.95	7.25
4	#5860.00	63.4 PK	74.0	-10.6	1.18 H	62	56.18	7.22
5	#5860.00	49.5 AV	54.0	-4.5	1.18 H	62	42.28	7.22
6	11650.00	57.6 PK	74.0	-16.4	1.14 H	90	42.93	14.67
7	11650.00	43.9 AV	54.0	-10.1	1.14 H	90	29.23	14.67
8	#17475.00	58.2 PK	74.0	-15.8	1.25 H	49	34.18	24.02
9	#17475.00	46.8 AV	54.0	-7.2	1.25 H	49	22.78	24.02

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	111.1 PK			1.04 V	108	103.79	7.31
2	*5825.00	99.9 AV			1.04 V	108	92.59	7.31
3	#5850.00	74.2 PK	78.2	-4.0	1.04 V	108	66.95	7.25
4	#5860.00	70.5 PK	74.0	-3.5	1.04 V	108	63.28	7.22
5	#5860.00	53.9 AV	54.0	-0.1	1.04 V	108	46.68	7.22
6	11650.00	59.1 PK	74.0	-14.9	1.24 V	116	44.43	14.67
7	11650.00	45.2 AV	54.0	-8.8	1.24 V	116	30.53	14.67
8	#17475.00	59.7 PK	74.0	-14.3	1.01 V	105	35.68	24.02
9	#17475.00	48.2 AV	54.0	-5.8	1.01 V	105	24.18	24.02

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) – Pre-Amplifier 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	67.3 PK	74.0	-6.7	1.27 H	112	60.83	6.47
2	5150.00	53.6 AV	54.0	-0.4	1.27 H	112	47.13	6.47
3	*5190.00	104.6 PK			1.27 H	112	97.90	6.70
4	*5190.00	93.6 AV			1.27 H	112	86.90	6.70
5	#10380.00	55.1 PK	74.0	-18.9	1.20 H	90	40.89	14.21
6	#10380.00	42.7 AV	54.0	-11.3	1.20 H	90	28.49	14.21
7	15570.00	57.5 PK	74.0	-16.5	1.33 H	68	38.95	18.55
8	15570.00	44.4 AV	54.0	-9.6	1.33 H	68	25.85	18.55

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	69.7 PK	74.0	-4.3	2.01 V	259	63.23	6.47
2	5150.00	53.2 AV	54.0	-0.8	2.01 V	259	46.73	6.47
3	*5190.00	102.9 PK			2.01 V	259	96.20	6.70
4	*5190.00	91.7 AV			2.01 V	259	85.00	6.70
5	#10380.00	53.5 PK	74.0	-20.5	1.11 V	110	39.29	14.21
6	#10380.00	41.4 AV	54.0	-12.6	1.11 V	110	27.19	14.21
7	15570.00	57.6 PK	74.0	-16.4	1.21 V	100	39.05	18.55
8	15570.00	45.3 AV	54.0	-8.7	1.21 V	100	26.75	18.55

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) – Pre-Amplifier 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	5150.00	65.4 PK	74.0	-8.6	2.35 H	334	58.93	6.47
2	5150.00	51.7 AV	54.0	-2.3	2.35 H	334	45.23	6.47
3	*5230.00	107.7 PK			2.35 H	334	100.89	6.81
4	*5230.00	96.7 AV			2.35 H	334	89.89	6.81
5	#10460.00	55.9 PK	74.0	-18.1	1.22 H	81	41.85	14.05
6	#10460.00	43.1 AV	54.0	-10.9	1.22 H	81	29.05	14.05
7	15690.00	57.2 PK	74.0	-16.8	1.30 H	72	38.33	18.87
8	15690.00	44.5 AV	54.0	-9.5	1.30 H	72	25.63	18.87

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	1.96 V	259	63.93	6.47
2	5150.00	53.7 AV	54.0	-0.3	1.96 V	259	47.23	6.47
3	*5230.00	106.3 PK			1.96 V	259	99.49	6.81
4	*5230.00	95.1 AV			1.96 V	259	88.29	6.81
5	#10460.00	56.6 PK	74.0	-17.4	1.10 V	104	42.55	14.05
6	#10460.00	44.4 AV	54.0	-9.6	1.10 V	104	30.35	14.05
7	15690.00	62.4 PK	74.0	-11.6	1.23 V	121	43.53	18.87
8	15690.00	50.3 AV	54.0	-3.7	1.23 V	121	31.43	18.87

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) – Pre-Amplifier 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 54	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	*5270.00	110.0 PK			1.17 H	98	103.09	6.86
2	*5270.00	98.9 AV			1.17 H	98	91.99	6.86
3	5350.00	70.2 PK	74.0	-3.9	1.17 H	98	63.11	7.04
4	5350.00	53.1 AV	54.0	-1.0	1.17 H	98	46.01	7.04
5	#10540.00	55.1 PK	74.0	-18.9	1.18 H	91	41.37	13.73
6	#10540.00	42.7 AV	54.0	-11.3	1.18 H	91	28.97	13.73
7	15810.00	59.3 PK	74.0	-14.7	1.30 H	52	39.88	19.42
8	15810.00	46.3 AV	54.0	-7.7	1.30 H	52	26.88	19.42

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	*5270.00	107.6 PK			2.07 V	258	100.69	6.86
2	*5270.00	96.2 AV			2.07 V	258	89.29	6.86
3	5350.00	65.3 PK	74.0	-8.8	2.07 V	258	58.21	7.04
4	5350.00	51.9 AV	54.0	-2.2	2.07 V	258	44.81	7.04
5	#10540.00	56.5 PK	74.0	-17.5	1.15 V	124	42.77	13.73
6	#10540.00	44.3 AV	54.0	-9.7	1.15 V	124	30.57	13.73
7	15810.00	60.4 PK	74.0	-13.6	1.22 V	90	40.98	19.42
8	15810.00	48.7 AV	54.0	-5.3	1.22 V	90	29.28	19.42

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) – Pre-Amplifier 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 62	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	*5310.00	106.6 PK			1.21 H	100	99.66	6.94
2	*5310.00	95.7 AV			1.21 H	100	88.76	6.94
3	5350.00	73.4 PK	74.0	-0.6	1.21 H	100	66.36	7.04
4	5350.00	53.8 AV	54.0	-0.2	1.21 H	100	46.76	7.04
5	10620.00	52.8 PK	74.0	-21.2	1.18 H	97	39.26	13.54
6	10620.00	40.1 AV	54.0	-13.9	1.18 H	97	26.56	13.54
7	15930.00	57.1 PK	74.0	-16.9	1.29 H	57	38.18	18.92
8	15930.00	44.2 AV	54.0	-9.8	1.29 H	57	25.28	18.92

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	*5310.00	102.8 PK			2.10 V	291	95.86	6.94
2	*5310.00	92.6 AV			2.10 V	291	85.66	6.94
3	5350.00	67.8 PK	74.0	-6.2	2.10 V	291	60.76	7.04
4	5350.00	51.1 AV	54.0	-2.9	2.10 V	291	44.06	7.04
5	10620.00	53.5 PK	74.0	-20.5	1.09 V	116	39.96	13.54
6	10620.00	41.3 AV	54.0	-12.7	1.09 V	116	27.76	13.54
7	15930.00	58.3 PK	74.0	-15.7	1.21 V	99	39.38	18.92
8	15930.00	45.8 AV	54.0	-8.2	1.21 V	99	26.88	18.92

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) – Pre-Amplifier 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 102	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	#5470.00	62.9 PK	74.0	-11.1	1.22 H	90	55.61	7.29
2	#5470.00	49.9 AV	54.0	-4.1	1.22 H	90	42.61	7.29
3	*5510.00	104.7 PK			1.22 H	90	97.39	7.31
4	*5510.00	94.2 AV			1.22 H	90	86.89	7.31
5	11020.00	49.7 PK	74.0	-24.3	1.02 H	192	35.42	14.28
6	11020.00	38.7 AV	54.0	-15.3	1.02 H	192	24.42	14.28
7	#16530.00	57.9 PK	74.0	-16.1	1.04 H	147	36.67	21.23
8	#16530.00	46.4 AV	54.0	-7.6	1.04 H	147	25.17	21.23

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	#5470.00	69.6 PK	74.0	-4.4	1.03 V	64	62.31	7.29
2	#5470.00	53.9 AV	54.0	-0.1	1.03 V	64	46.61	7.29
3	*5510.00	107.4 PK			1.04 V	64	100.09	7.31
4	*5510.00	96.9 AV			1.04 V	64	89.59	7.31
5	11020.00	54.0 PK	74.0	-20.0	1.18 V	91	39.72	14.28
6	11020.00	41.7 AV	54.0	-12.3	1.18 V	91	27.42	14.28
7	#16530.00	57.3 PK	74.0	-16.7	1.08 V	20	36.07	21.23
8	#16530.00	45.5 AV	54.0	-8.5	1.08 V	20	24.27	21.23

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) – Pre-Amplifier 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 110	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	#5470.00	62.8 PK	74.0	-11.2	1.15 H	90	55.51	7.29
2	#5470.00	49.6 AV	54.0	-4.4	1.15 H	90	42.31	7.29
3	*5550.00	106.3 PK			1.15 H	90	99.06	7.24
4	*5550.00	95.2 AV			1.15 H	90	87.96	7.24
5	11100.00	49.8 PK	74.0	-24.2	1.00 H	187	35.36	14.44
6	11100.00	38.9 AV	54.0	-15.1	1.00 H	187	24.46	14.44
7	#16650.00	59.9 PK	74.0	-14.1	1.02 H	133	38.05	21.85
8	#16650.00	48.7 AV	54.0	-5.3	1.02 H	133	26.85	21.85

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	#5470.00	68.9 PK	74.0	-5.1	1.01 V	62	61.61	7.29
2	#5470.00	53.1 AV	54.0	-0.9	1.01 V	62	45.81	7.29
3	*5550.00	109.1 PK			1.01 V	62	101.86	7.24
4	*5550.00	98.0 AV			1.01 V	62	90.76	7.24
5	11100.00	54.1 PK	74.0	-19.9	1.15 V	99	39.66	14.44
6	11100.00	42.1 AV	54.0	-11.9	1.15 V	99	27.66	14.44
7	#16650.00	58.3 PK	74.0	-15.7	1.09 V	35	36.45	21.85
8	#16650.00	46.8 AV	54.0	-7.2	1.09 V	35	24.95	21.85

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) – Pre-Amplifier 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 134	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	*5670.00	104.6 PK			1.15 H	86	97.29	7.31
2	*5670.00	93.7 AV			1.15 H	86	86.39	7.31
3	#5725.00	62.6 PK	74.0	-11.4	1.15 H	86	55.22	7.38
4	#5725.00	49.3 AV	54.0	-4.7	1.15 H	86	41.92	7.38
5	11340.00	50.2 PK	74.0	-23.8	1.05 H	178	35.64	14.56
6	11340.00	38.9 AV	54.0	-15.1	1.05 H	178	24.34	14.56
7	#17010.00	57.8 PK	74.0	-16.2	1.10 H	138	34.41	23.39
8	#17010.00	46.6 AV	54.0	-7.4	1.10 H	138	23.21	23.39

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	*5670.00	107.2 PK			1.12 V	60	99.89	7.31
2	*5670.00	96.0 AV			1.12 V	60	88.69	7.31
3	#5725.00	66.1 PK	74.0	-7.9	1.12 V	60	58.72	7.38
4	#5725.00	53.4 AV	54.0	-0.6	1.12 V	60	46.02	7.38
5	11340.00	53.8 PK	74.0	-20.2	1.14 V	93	39.24	14.56
6	11340.00	41.6 AV	54.0	-12.4	1.14 V	93	27.04	14.56
7	#17010.00	56.6 PK	74.0	-17.4	1.03 V	30	33.21	23.39
8	#17010.00	45.0 AV	54.0	-9.0	1.03 V	30	21.61	23.39

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) – Pre-Amplifier 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 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	#5715.00	62.7 PK	74.0	-11.3	1.14 H	87	55.32	7.38
2	#5715.00	49.5 AV	54.0	-4.5	1.14 H	87	42.12	7.38
3	#5725.00	68.2 PK	78.2	-10.0	1.14 H	87	60.82	7.38
4	*5755.00	100.1 PK			1.14 H	87	92.72	7.38
5	*5755.00	88.2 AV			1.14 H	87	80.82	7.38
6	11510.00	49.8 PK	74.0	-24.2	1.05 H	184	35.30	14.50
7	11510.00	38.1 AV	54.0	-15.9	1.05 H	184	23.60	14.50
8	#17265.00	51.4 PK	74.0	-22.6	1.13 H	153	27.88	23.52
9	#17265.00	39.1 AV	54.0	-14.9	1.13 H	153	15.58	23.52

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	#5715.00	70.9 PK	74.0	-3.1	1.13 V	116	63.52	7.38
2	#5715.00	53.7 AV	54.0	-0.3	1.13 V	116	46.32	7.38
3	#5725.00	72.3 PK	78.2	-5.9	1.13 V	116	64.92	7.38
4	*5755.00	102.4 PK			1.13 V	116	95.02	7.38
5	*5755.00	91.1 AV			1.13 V	116	83.72	7.38
6	11510.00	49.8 PK	74.0	-24.2	1.29 V	132	35.30	14.50
7	11510.00	38.7 AV	54.0	-15.3	1.29 V	132	24.20	14.50
8	#17265.00	53.5 PK	74.0	-20.5	1.02 V	84	29.98	23.52
9	#17265.00	41.2 AV	54.0	-12.8	1.02 V	84	17.68	23.52

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) – Pre-Amplifier 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	105.5 PK			1.15 H	75	98.12	7.38
2	*5795.00	94.1 AV			1.15 H	75	86.72	7.38
3	#5850.00	68.8 PK	78.2	-9.4	1.15 H	75	61.55	7.25
4	#5860.00	63.8 PK	74.0	-10.2	1.15 H	75	56.58	7.22
5	#5860.00	49.6 AV	54.0	-4.4	1.15 H	75	42.38	7.22
6	11590.00	49.5 PK	74.0	-24.5	1.00 H	204	34.89	14.61
7	11590.00	38.6 AV	54.0	-15.4	1.00 H	204	23.99	14.61
8	#17385.00	52.7 PK	74.0	-21.3	1.07 H	143	28.21	24.49
9	#17385.00	40.0 AV	54.0	-14.0	1.07 H	143	15.51	24.49

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	108.2 PK			1.13 V	107	100.82	7.38
2	*5795.00	96.6 AV			1.13 V	107	89.22	7.38
3	#5850.00	72.9 PK	78.2	-5.3	1.13 V	107	65.65	7.25
4	#5860.00	67.9 PK	74.0	-6.1	1.13 V	107	60.68	7.22
5	#5860.00	53.4 AV	54.0	-0.6	1.13 V	107	46.18	7.22
6	11590.00	49.9 PK	74.0	-24.1	1.34 V	116	35.29	14.61
7	11590.00	39.1 AV	54.0	-14.9	1.34 V	116	24.49	14.61
8	#17385.00	55.8 PK	74.0	-18.2	1.06 V	105	31.31	24.49
9	#17385.00	43.3 AV	54.0	-10.7	1.06 V	105	18.81	24.49

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) – Pre-Amplifier 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 Data
802.11n (HT20)

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	Below 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	107.84	26.6 QP	43.5	-16.9	1.50 H	75	44.91	-18.28
2	167.04	23.3 QP	43.5	-20.2	1.50 H	105	38.85	-15.57
3	186.15	24.8 QP	43.5	-18.7	1.00 H	280	42.38	-17.57
4	275.00	27.8 QP	46.0	-18.3	1.00 H	126	42.67	-14.92
5	725.03	32.2 QP	46.0	-13.8	1.00 H	136	37.17	-4.95
6	925.04	34.7 QP	46.0	-11.3	1.50 H	118	36.38	-1.67

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	38.39	32.5 QP	40.0	-7.5	1.00 V	307	48.42	-15.88
2	86.02	24.5 QP	40.0	-15.5	1.50 V	194	45.52	-20.98
3	108.52	26.5 QP	43.5	-17.0	1.00 V	360	44.70	-18.20
4	165.97	27.1 QP	43.5	-16.4	1.00 V	360	42.60	-15.51
5	325.00	25.2 QP	46.0	-20.8	1.00 V	347	38.68	-13.46
6	700.00	28.8 QP	46.0	-17.2	1.50 V	183	34.28	-5.51

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) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 Transmit Power Measurement

4.2.1 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 \leq 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 Method of conducted output power measurement on IEEE 802.11 devices,

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

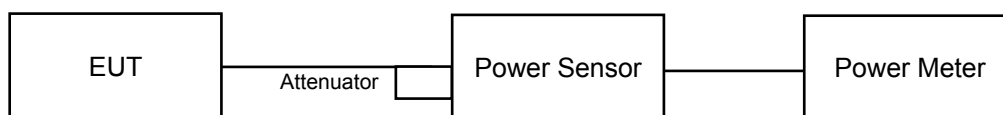
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

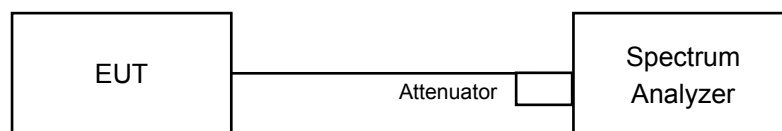
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.2.2 Test Setup

FOR POWER OUTPUT MEASUREMENT



FOR 26dB OCCUPIED BANDWIDTH



4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 Test Procedure

FOR AVERAGE POWER MEASUREMENT

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

FOR 26dB OCCUPIED BANDWIDTH

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.2.5 Deviation from Test Standard

No deviation.

4.2.6 EUT Operating Condition

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

4.2.7 Test Result

802.11a

POWER OUTPUT

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	41.305	16.16	24	Pass
40	5200	76.913	18.86	24	Pass
48	5240	59.704	17.76	24	Pass
52	5260	73.282	18.65	24	Pass
60	5300	52.845	17.23	24	Pass
64	5320	42.073	16.24	24	Pass
100	5500	31.842	15.03	24	Pass
116	5580	37.239	15.71	24	Pass
140	5700	20.989	13.22	24	Pass
149	5745	23.714	13.75	30	Pass
157	5785	76.033	18.81	30	Pass
165	5825	24.831	13.95	30	Pass

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
36	5180	26.81
40	5200	40.03
48	5240	33.93
52	5260	35.60
60	5300	29.94
64	5320	29.50
100	5500	20.26
116	5580	27.29
140	5700	29.72

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel	Frequency (MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	35.60	26.51 > 24
60	5300	29.94	25.76 > 24
64	5320	29.50	25.69 > 24
100	5500	20.26	24.06 > 24
116	5580	27.29	25.36 > 24
140	5700	29.72	25.73 > 24

Note: For FCC output power limitation is determined based on 26dB bandwidth.

802.11n (HT20)
POWER OUTPUT

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	16.04	15.22	73.445	18.66	24	Pass
40	5200	17.21	16.07	93.06	19.69	24	Pass
48	5240	16.77	15.75	85.118	19.30	24	Pass
52	5260	17.39	16.30	97.486	19.89	24	Pass
60	5300	15.71	15.13	69.823	18.44	24	Pass
64	5320	14.58	14.38	56.124	17.49	24	Pass
100	5500	13.33	13.84	45.738	16.60	24	Pass
116	5580	15.98	16.38	83.079	19.19	24	Pass
140	5700	11.61	12.89	33.942	15.31	24	Pass
149	5745	11.52	11.99	30.003	14.77	30	Pass
157	5785	17.23	19.28	137.568	21.39	30	Pass
165	5825	13.33	13.89	46.019	16.63	30	Pass

26dB OCCUPIED BANDWIDTH

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	32.35	25.95
40	5200	36.53	32.09
48	5240	33.75	23.40
52	5260	38.33	28.99
60	5300	28.59	25.04
64	5320	23.56	22.91
100	5500	20.60	20.28
116	5580	34.35	30.16
140	5700	28.46	23.19

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel	Frequency (MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	28.99	25.62 > 24
60	5300	25.04	24.98 > 24
64	5320	22.91	24.6 > 24
100	5500	20.28	24.07 > 24
116	5580	30.16	25.79 > 24
140	5700	23.19	24.65 > 24

Note: For FCC output power limitation is determined based on 26dB bandwidth.

802.11n (HT40)
POWER OUTPUT

Chan.	Chan. Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	13.35	12.59	39.782	16.00	24	Pass
46	5230	17.29	16.14	94.695	19.76	24	Pass
54	5270	16.05	15.08	72.483	18.60	24	Pass
62	5310	13.51	13.24	43.525	16.39	24	Pass
102	5510	11.95	11.92	31.228	14.95	24	Pass
110	5550	15.93	15.96	78.62	18.96	24	Pass
134	5670	13.15	13.68	43.989	16.43	24	Pass
151	5755	9.54	9.51	17.928	12.54	30	Pass
159	5795	14.14	14.24	52.488	17.20	30	Pass

26dB OCCUPIED BANDWIDTH

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	54.26	49.97
46	5230	95.72	88.09
54	5270	92.06	82.02
62	5310	64.27	51.56
102	5510	46.37	45.63
110	5550	71.26	70.68
134	5670	86.37	75.50

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

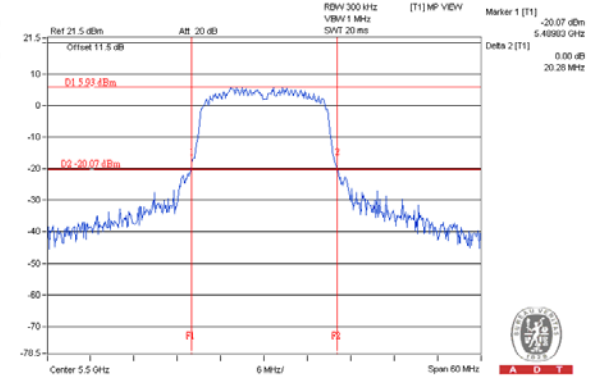
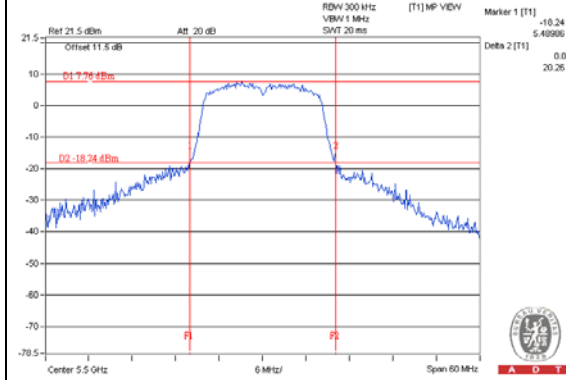
Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel	Frequency (MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	82.02	30.13 > 24
62	5310	51.56	28.12 > 24
102	5510	45.63	27.59 > 24
110	5550	70.68	29.49 > 24
134	5670	75.50	29.77 > 24

Note: For FCC output power limitation is determined based on 26dB bandwidth.

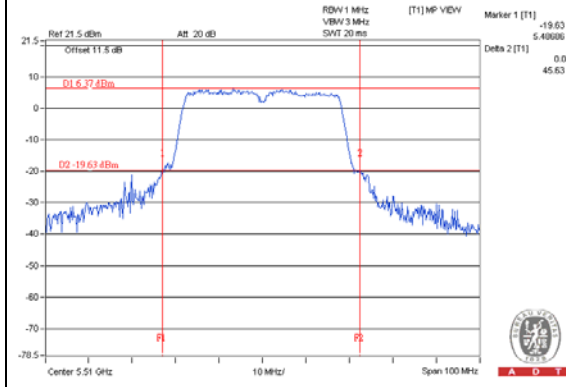
SPECTRUM PLOT OF WORST VALUE

802.11a – CH 100

802.11n (HT20) – Chain (1): CH 100



802.11n (HT40) – Chain (1): CH 102

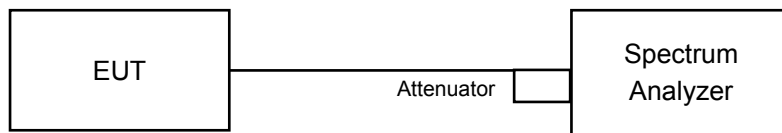


4.3 Peak Power Spectral Density Measurement

4.3.1 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

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For 802.11a & 802.11n (HT20)

Using method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, 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

For 802.11n (HT40)

Using method SA-2

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, 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/duty cycle)

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

Same as Item 4.3.6.

4.3.7 Test Results

For U-NII-1, U-NII-2A & U-NII-2C

802.11a

Channel	Frequency (MHz)	PSD (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
36	5180	2.73	11	Pass
40	5200	5.93	11	Pass
48	5240	4.46	11	Pass
52	5260	4.88	11	Pass
60	5300	3.74	11	Pass
64	5320	3.14	11	Pass
100	5500	2.36	11	Pass
116	5580	2.82	11	Pass
140	5700	0.13	11	Pass

802.11n (HT20)

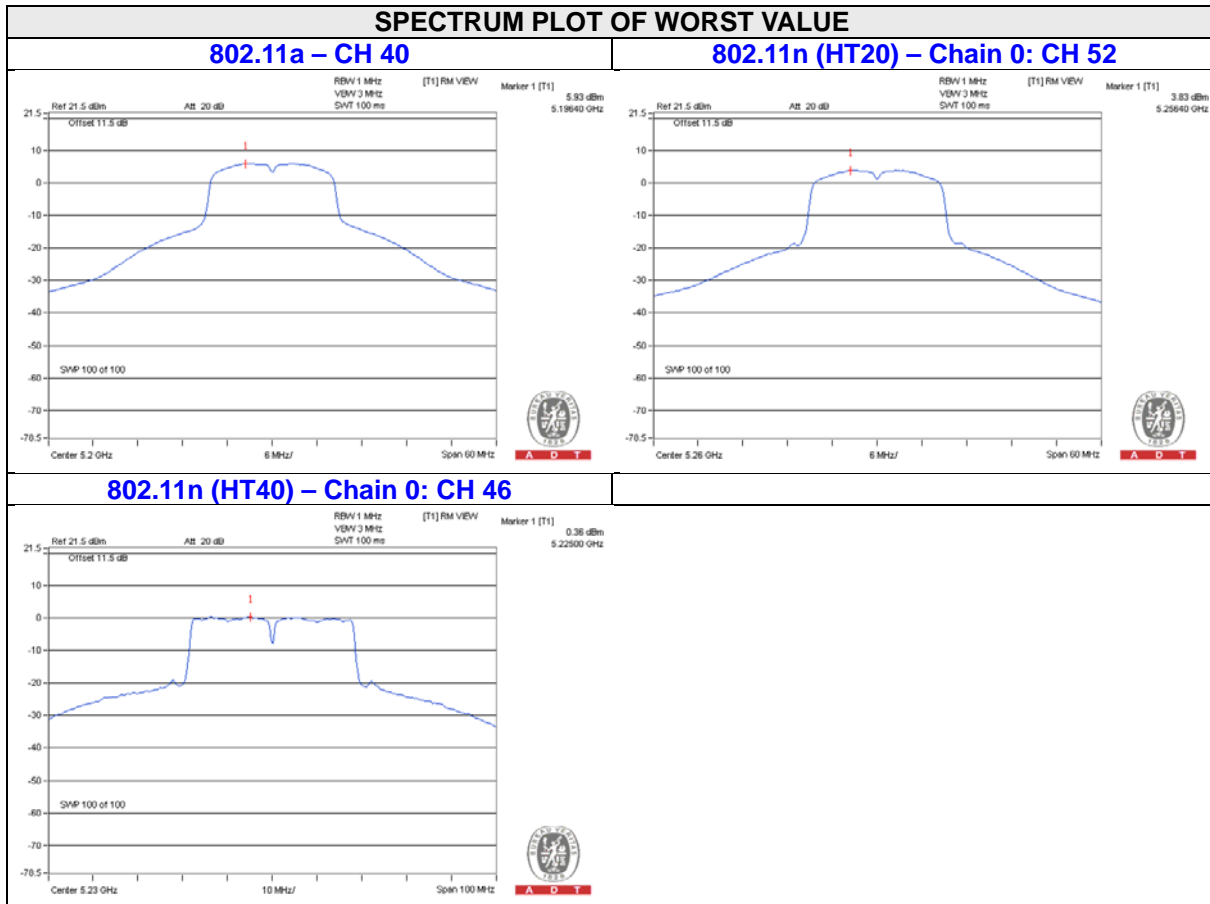
Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total Power Density (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	2.72	1.79	5.29	11	Pass
40	5200	3.46	3.15	6.32	11	Pass
48	5240	2.69	2.27	5.50	11	Pass
52	5260	3.83	2.78	6.35	11	Pass
60	5300	1.74	2.20	4.99	11	Pass
64	5320	0.60	1.10	3.87	11	Pass
100	5500	-0.02	0.00	3.00	11	Pass
116	5580	2.91	3.19	6.06	11	Pass
140	5700	-1.33	-1.08	1.81	11	Pass

Note: 1. Method a) 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.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	PSD w/o duty factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	MAX. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-3.39	-4.61	0.17	-0.78	11	Pass
46	5230	0.36	-0.58	0.17	3.09	11	Pass
54	5270	-0.37	-1.92	0.17	2.10	11	Pass
62	5310	-3.47	-3.66	0.17	-0.39	11	Pass
102	5510	-5.16	-5.46	0.17	-2.13	11	Pass
110	5550	-1.23	-1.37	0.17	1.88	11	Pass
134	5670	-3.31	-3.46	0.17	-0.21	11	Pass

- Note: 1. Method a) 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. Refer to section 3.3 for duty cycle spectrum plot.



**For U-NII-3 Band
802.11a**

Channel	Freq. (MHz)	PSD (dBm/300kHz)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
149	5745	-8.40	-6.18	30	Pass
157	5785	-4.50	-2.28	30	Pass
165	5825	-7.79	-5.57	30	Pass

802.11n (HT20)

TX chain	Channel	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	-11.29	-9.07	3.01	-6.06	30	Pass
	157	5785	-5.88	-3.66	3.01	-0.65	30	Pass
	165	5825	-9.43	-7.21	3.01	-4.20	30	Pass
1	149	5745	-9.29	-7.07	3.01	-4.06	30	Pass
	157	5785	-3.35	-1.13	3.01	1.88	30	Pass
	165	5825	-8.25	-6.03	3.01	-3.02	30	Pass

802.11n (HT40)

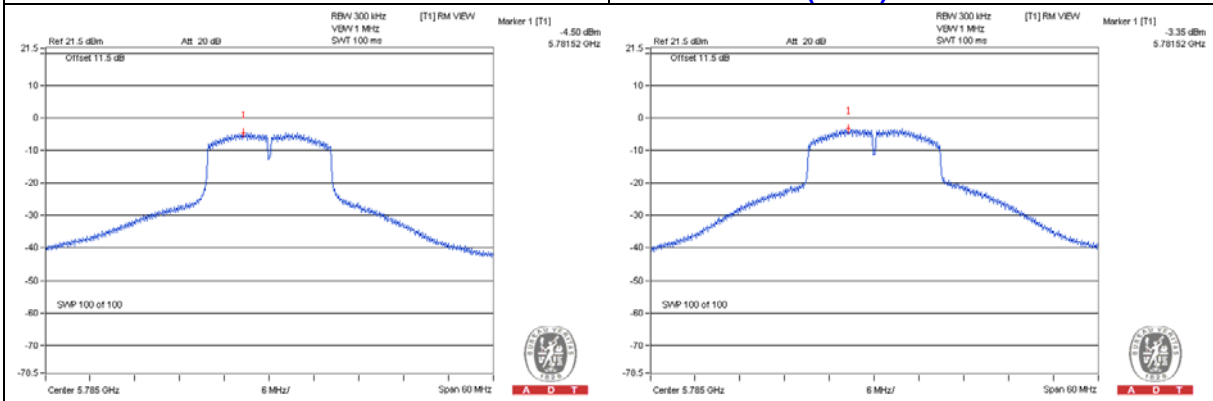
TX chain	Chan.	Chan. Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	151	5745	-16.15	-13.93	3.01	0.17	-10.75	30	Pass
	159	5785	-12.30	-10.08	3.01	0.17	-6.90	30	Pass
1	151	5745	-15.72	-13.50	3.01	0.17	-10.32	30	Pass
	159	5785	-11.29	-9.07	3.01	0.17	-5.89	30	Pass

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

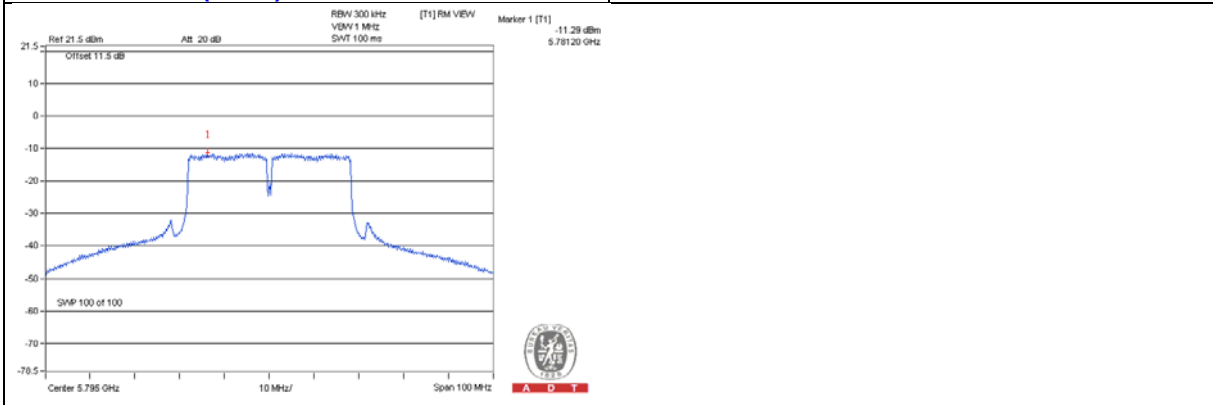
SPECTRUM PLOT OF WORST VALUE

802.11a – CH 157

802.11n (HT20) – Chain 1: CH 157



802.11n (HT40) – Chain 1: CH 159

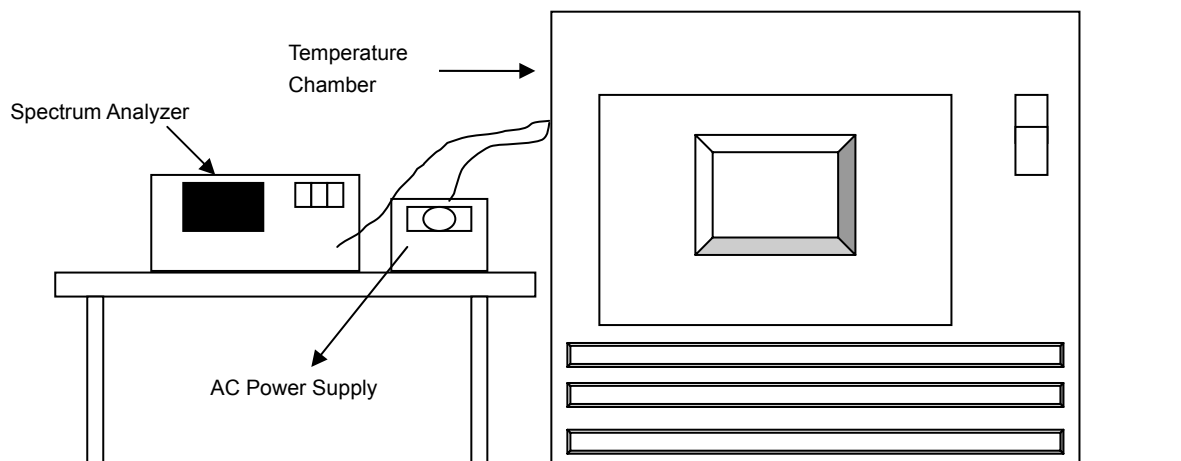


4.4 Frequency Stability Measurement

4.4.1 Limits of Frequency Stability Measurement

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

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- 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.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- 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.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Condition

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

4.4.7 Test Results

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	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	120	5180.022	0.00042	5180.0228	0.00044	5180.019	0.00037	5180.0191	0.00037
40	120	5180.009	0.00017	5180.0121	0.00023	5180.0111	0.00021	5180.0108	0.00021
30	120	5180.0211	0.00041	5180.0207	0.00040	5180.0206	0.00040	5180.0217	0.00042
20	120	5180.0221	0.00043	5180.024	0.00046	5180.021	0.00041	5180.0205	0.00040
10	120	5180.0141	0.00027	5180.0163	0.00031	5180.0157	0.00030	5180.0149	0.00029
0	120	5180.0179	0.00035	5180.0183	0.00035	5180.0162	0.00031	5180.0155	0.00030
-10	120	5179.9795	-0.00040	5179.9781	-0.00042	5179.9821	-0.00035	5179.9829	-0.00033
-20	120	5180.0183	0.00035	5180.0181	0.00035	5180.0227	0.00044	5180.0207	0.00040
-30	120	5180.0125	0.00024	5180.0115	0.00022	5180.015	0.00029	5180.0128	0.00025

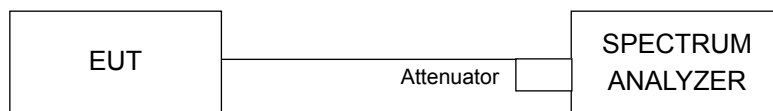
FREQUENCY STABILITY VERSUS VOLTAGE									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5180.023	0.00044	5180.0242	0.00047	5180.0202	0.00039	5180.0212	0.00041
	120	5180.0221	0.00043	5180.024	0.00046	5180.021	0.00041	5180.0205	0.00040
	102	5180.0218	0.00042	5180.0237	0.00046	5180.0219	0.00042	5180.0196	0.00038

4.5 6dB Bandwidth Measurement

4.5.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

MEASUREMENT PROCEDURE REF

- 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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

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

4.5.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
149	5745	15.21	0.5	Pass
157	5785	15.16	0.5	Pass
165	5825	15.18	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	15.20	15.92	0.5	Pass
157	5785	15.19	15.73	0.5	Pass
165	5825	15.20	16.32	0.5	Pass

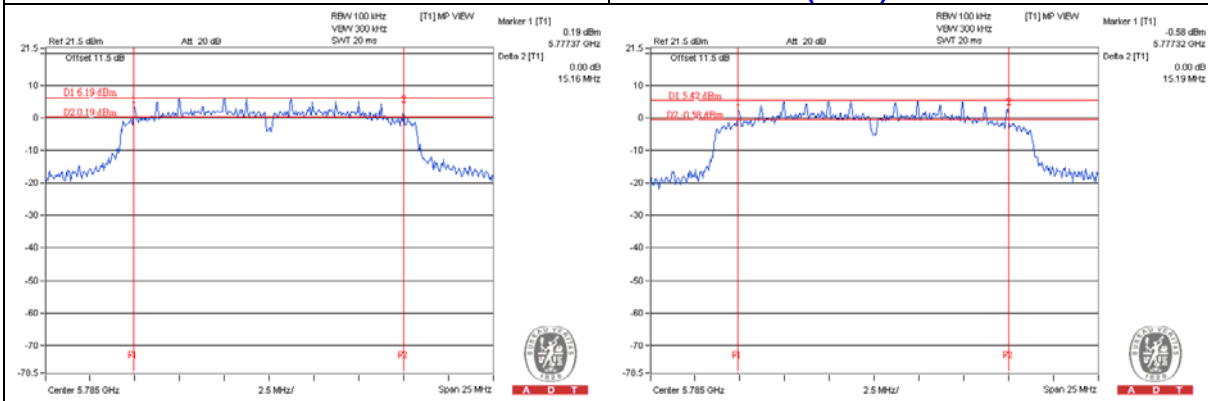
802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	36.14	36.43	0.5	Pass
159	5795	36.16	36.38	0.5	Pass

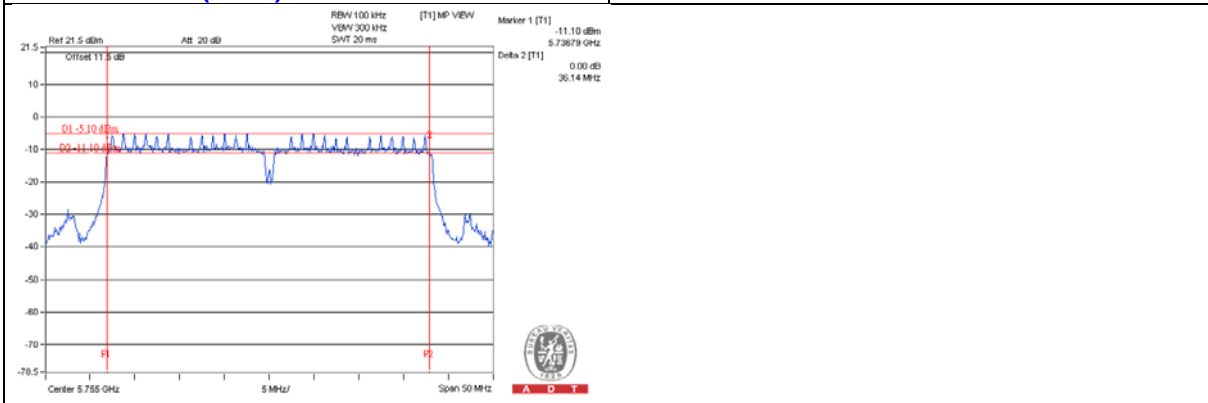
SPECTRUM PLOT OF WORST VALUE

802.11a – CH 157

802.11n (HT20) – Chain 0: CH 157



802.11n (HT40) – Chain 0: CH 151



5 Pictures of Test Arrangements

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

Appendix – 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

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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