

FCC Test Report

Report No.: RF171006C01A-2

FCC ID: CFS8DLRCHS5200W

Test Model: RCHS5200W

Received Date: Oct. 06, 2017

Test Date: Nov. 02, 2017 ~ Jan. 10, 2018

Issued Date: Jan. 17, 2018

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FCC Registration: 788550

Designation Number: TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF171006C01A-2	Original release.	Jan. 17, 2018

1 Certificate of Conformity

Product: Smart Home Security Base Station

Brand: Honeywell

Test Model: RCHS5200W

Sample Status: Engineering sample

Applicant: Honeywell International Inc.

Test Date: Nov. 02, 2017 ~ Jan. 10, 2018

Standards: 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 RF characteristics under the conditions specified in this report.

Prepared by :  , **Date:** Jan. 17, 2018
Pettie Chen / Senior Specialist

Approved by :  , **Date:** Jan. 17, 2018
Bruce Chen / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -10.23dB at 0.34159MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.6dB at 5725.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.59 dB
	200MHz ~ 1000MHz	3.60 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Smart Home Security Base Station
Brand	Honeywell
Test Model	RCHS5200W
Sample Status	Engineering sample
Power Supply Rating	12Vdc (adapter)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 150Mbps 802.11ac: up to 433.3Mbps
Operating Frequency	5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz
Number of Channel	5180~5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5260~5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500~5700MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 11 802.11n (HT40), 802.11ac (VHT40): 5 802.11ac (VHT80): 2 5745~5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Output Power	5180~5240MHz: 101.859mW 5260~5320MHz: 108.143mW 5500~5700MHz: 117.761mW 5745~5825MHz: 111.173mW
Antenna Type	Ant. 0: PIFA antenna with 2.2dBi gain Ant. 1: Loop antenna with 2.4dBi gain
Antenna Connector	NA
Accessory Device	Adapter
Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change. The differences compared with the original report (BV CPS report no.: RF171006C01-2) are Layout & software change (Listed as below) and updating KDB version to the latest version. Therefore, test items for conducted emission and radiated emission test for all modes and Antenna Port Conducted Measurement for 802.11n (HT40) had been re-tested in this report.

DAS MB Schematic Design Change List - DVT1 to PVT

No.	Catalog	Function	Change Description
1	BB	Reset	■ Change the reset control from MOSFET to a diode, and the pull up source change to VPH_PWR.
2	BB	Audio Power Path	■ Add R2514 & C2513 to well control the Q2503 turn off when the AC adaptor remove.
3	MB	HW ID	Mount R1022, R1026, R1027 Non-mount R1023, R1024, R1025
4	MB	RS Test	Change R2914 from 22K to 10K.
5	Touch Board	Camera Desense issue	Change TP_RST_N_C signal D231 from ESD diode to 33pF
6	Touch Board	Mute Key Power on issue	Change TP R233 from 1K to 10K to ensure the voltage of PM8953_RESIN pin is higher than 1.12V.
7	Halo LED	LED power	Add a load switch on the LED board. The power off current can reduce from 5mA to 0.5mA.

DAS MB Layout Design Change List - DVT1 to PVT

No.	Catalog	Function	Change Description
1	BB	DDR	■ Reduce the DDR trace length to meet Qualcomm new layout guide from 20mm to 13.2mm.
2	BB	Reset	■ Change the reset control from MOSFET to a diode, and the pull up source change to VPH_PWR. ■ Add R1622 & R1623 at the up of bottom layer. ■ Add D1601 next to Q1602.
3	BB	Audio Power Path	■ Add R2514 & C2513 to well control the Q2503 turn off when the AC adaptor remove.
4	BB	DDR	Reduce trace length of EBI0_CA6 ~ EBI0_CA9
5	BB	DDR	Add trace length of EBI0_DQ17, EBI0_DQ21, EBI0_DQ29
6	BB	DDR	Modify some DQ trace length to target Qualcomm request
7	BB	Audio codec	Modify some trace routing and trace width of WCD9326
8	BB	PMIC Xtal	1. Delete GND under Xtal in layer2 2. Move layer2 trace to layer3
9	BB	Audio AMP	Modify some trace routing and trace width of WSA8815
10	BB	Camera	Follow new request of Camera MIPI match to modify some trace length
11	RF	WIFI	Follow new request of WLAN_BB_I/Q match to modify some trace length, the change of the control signals circuit between CPU and WiFi chip does not have an impact on the RF function.
12	RFI	Desense	Add 2 beads on the LED control signals to prevent LTE B12 desense issue.
13	MB	USB OTG	Remove MB U2903.
14	IO board	USB	Remove IO board CN104
15	MB	Debug Conn	Remove MB CN2101
16	Touch Board	Camera Desense issue	Add extra 33pF capacitor in parallel with the D231 on the Touch board.

2. The EUT provides 1 completed transmitter and 1 receiver.

Modulation Mode	TX Function
802.11a	1TX (Diversity)
802.11n (HT20)	1TX (Diversity)
802.11n (HT40)	1TX (Diversity)
802.11ac (VHT20)	1TX (Diversity)
802.11ac (VHT40)	1TX (Diversity)
802.11ac (VHT80)	1TX (Diversity)

* The modulation and bandwidth are similar for 802.11n mode for HT20/HT40 and 802.11ac mode for VHT20/VHT40. After pre-testing, 802.11ac (VHT20/VHT40) power is lower than 802.11n (HT20/HT40), therefore 802.11n (HT20/HT40) is the worst case to representative mode in test report. (Final test mode refer section 3.2.1)

* For Antenna Port Conducted Measurement, Ant. 1 with maximum gain was chosen for the final test.

3. The EUT consumes power from the following adapter.

Adapter	
Brand	Asian Power Devices Inc.
Model	WA-30J12FU
Input Power	100-240Vac~50-60Hz, 0.9A Max
Output Power	12Vdc/ 2.5A
Power Line	1.5m non-shielded cable with one core

4. The WiFi and Bluetooth cannot transmit simultaneously.

3.2 Description of Test Modes

5180~5240MHz:

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

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

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

5260~5320MHz:

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

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

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290MHz

5500~5700MHz:

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

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), 802.11ac (VHT40):

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz

5745~5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	-	Ant. 0
B	√	√	√	√	Ant. 1

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement
RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane
2. "-": Means no effect.

Radiated Emission Test (Above 1GHz):

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
A, B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (HT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
A, B	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	6.5
	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	13.5
	802.11ac (VHT80)		106 to 122	106, 122	OFDM	29.3
A, B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

Radiated Emission Test (Below 1GHz):

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B	802.11a	5180-5240	36 to 48	36	OFDM	6.0
		5260-5320	52 to 64		OFDM	6.0
		5500-5700	100 to 144		OFDM	6.0
		5745-5825	149 to 165		OFDM	6.0

Power Line Conducted Emission Test:

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
A, B	802.11a	5180-5240	36 to 48	36	OFDM	6.0
		5260-5320	52 to 64		OFDM	6.0
		5500-5700	100 to 144		OFDM	6.0
		5745-5825	149 to 165		OFDM	6.0

Antenna Port Conducted Measurement:

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (HT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
B	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	6.5
	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	13.5
	802.11ac (VHT80)		106 to 122	106, 122	OFDM	29.3
B	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25deg. C, 66%RH	120Vac, 60Hz	Greg Lin James Yang
RE<1G	25deg. C, 66%RH	120Vac, 60Hz	Greg Lin
PLC	25deg. C, 75%RH	120Vac, 60Hz	Matthew Yang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Chris Lin

3.3 Duty Cycle of Test Signal

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

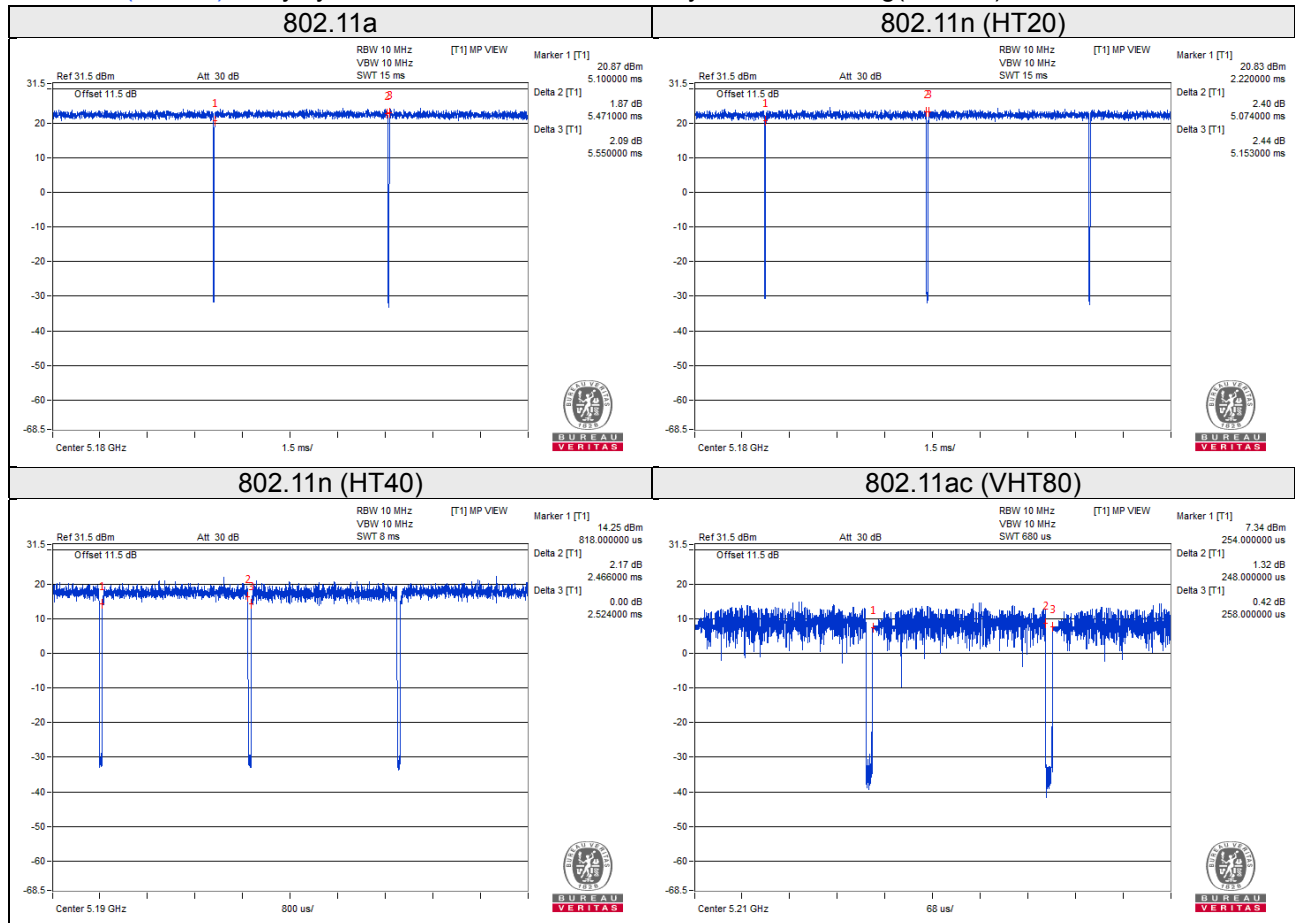
Duty cycle of test signal is < 98 %, duty factor is required.

802.11a: Duty cycle = $5.471/5.55 = 0.986$

802.11n (HT20): Duty cycle = $5.074/5.153 = 0.985$

802.11n (HT40): Duty cycle = $2.466/2.524 = 0.977$, Duty factor = $10 * \log(1/0.977) = 0.10$

802.11ac (VHT80): Duty cycle = $0.248/0.258 = 0.961$, Duty factor = $10 * \log(1/0.961) = 0.17$



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.	Notebook	ASUS	P2420L	FCNXCV16385351D	FCC DoC Approved	-

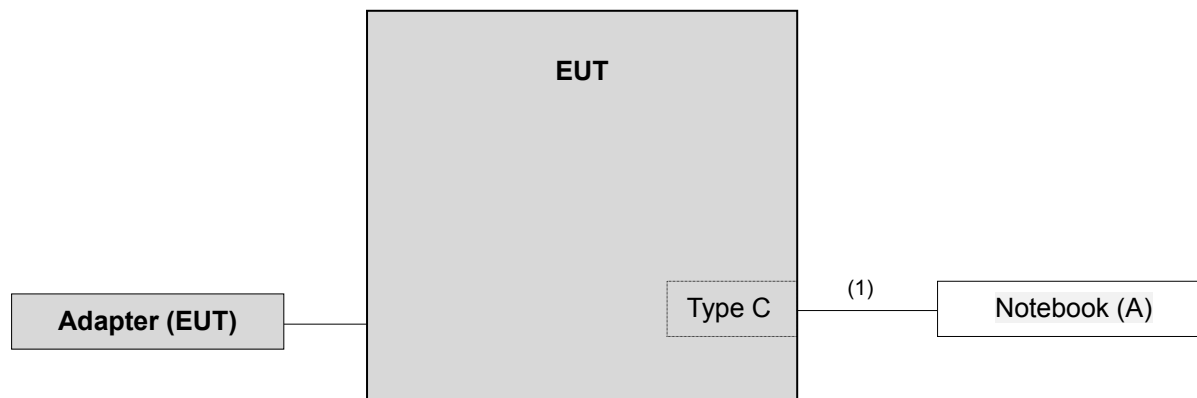
Note:

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.	Type C to USB cable	1	1.0	-	0	-

Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

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)

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

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

Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 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 v02r01			Field Strength at 3m	
			PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☒	15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2(dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8(dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*1} beyond 75 MHz or more above of the band edge.			^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.	
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.			^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	

Note: 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.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Mar. 27, 2017	Mar. 26, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	May 11, 2017	May 10, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-148	Dec. 11, 2017	Dec. 10, 2018
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Dec. 12, 2017	Dec. 11, 2018
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 01, 2017	Nov. 30, 2018
Loop Antenna EMCI	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Aug. 08, 2017	Aug. 07, 2018
Preamplifier Agilent (Above 1GHz)	8449B	3008A01638	Feb. 22, 2017	Feb. 21, 2018
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104	MY 13380+295012/04	Aug. 08, 2017	Aug. 07, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Aug. 08, 2017	Aug. 07, 2018
RF signal cable Woken	8D-FB	Cable-CH9-01	Aug. 01, 2017	Jul. 31, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
26GHz ~ 40GHz Amplifier	EMC 012645	980115	Oct. 20, 2017	Oct. 19, 2018
High Speed Peak Power Meter	ML2495A	0824012	Aug. 18, 2017	Aug. 17, 2018
Power Sensor	MA2411B	0738171	Aug. 18, 2017	Aug. 17, 2018

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 9.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The IC Site Registration No. is IC 7450F-9.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 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:

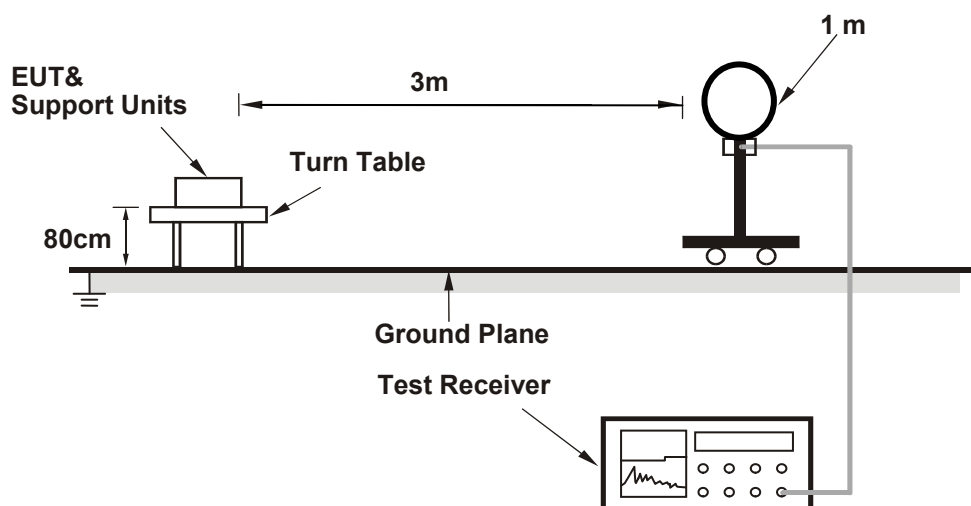
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

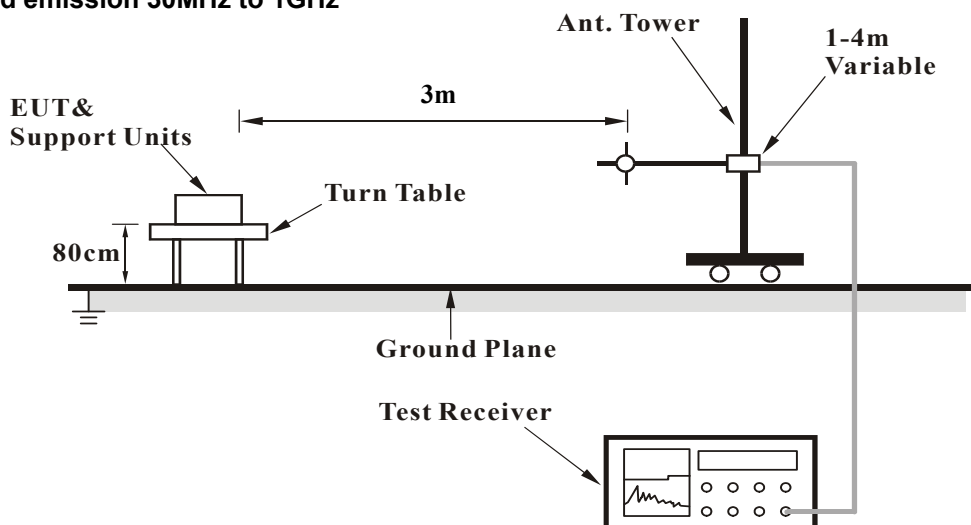
No deviation.

4.1.5 Test Set Up

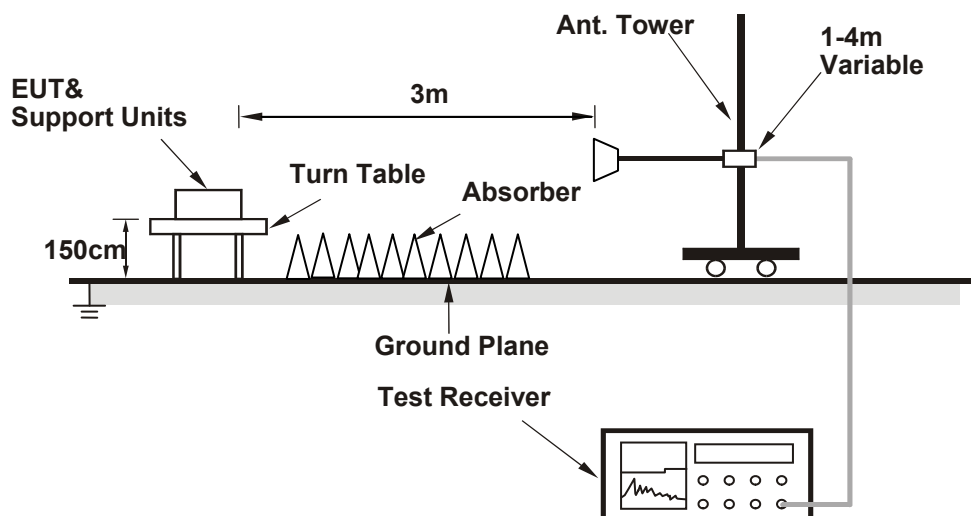
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

- Connected the EUT and a notebook via a type C to USB cable and placed them on the testing table.
- The notebook ran a test program to enable EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz data:

Test Mode A

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	65.9 PK	74.0	-8.1	1.29 H	203	61.9	4.0
2	5150.00	49.3 AV	54.0	-4.7	1.29 H	203	45.3	4.0
3	*5180.00	110.0 PK			1.43 H	190	69.3	40.7
4	*5180.00	98.8 AV			1.43 H	190	58.1	40.7
5	#10360.00	58.9 PK	74.0	-15.1	2.56 H	147	43.5	15.4
6	#10360.00	45.7 AV	54.0	-8.3	2.56 H	147	30.3	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.7 PK	74.0	-14.3	1.10 V	331	55.7	4.0
2	5150.00	46.1 AV	54.0	-7.9	1.10 V	331	42.1	4.0
3	*5180.00	105.5 PK			1.00 V	329	64.8	40.7
4	*5180.00	95.1 AV			1.00 V	329	54.4	40.7
5	#10360.00	57.5 PK	74.0	-16.5	1.93 V	214	42.1	15.4
6	#10360.00	44.8 AV	54.0	-9.2	1.93 V	214	29.4	15.4

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.8 PK			1.47 H	198	68.1	40.7
2	*5200.00	98.6 AV			1.47 H	198	57.9	40.7
3	#10400.00	58.5 PK	74.0	-15.5	2.43 H	152	43.1	15.4
4	#10400.00	45.6 AV	54.0	-8.4	2.43 H	152	30.2	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	105.1 PK			1.00 V	335	64.4	40.7
2	*5200.00	94.9 AV			1.00 V	335	54.2	40.7
3	#10400.00	57.1 PK	74.0	-16.9	2.03 V	186	41.7	15.4
4	#10400.00	45.0 AV	54.0	-9.0	2.03 V	186	29.6	15.4

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	108.8 PK			1.27 H	190	68.3	40.5
2	*5240.00	98.4 AV			1.27 H	190	57.9	40.5
3	5350.00	57.2 PK	74.0	-16.8	1.41 H	202	53.1	4.1
4	5350.00	44.0 AV	54.0	-10.0	1.41 H	202	39.9	4.1
5	#10480.00	58.4 PK	74.0	-15.6	1.76 H	205	42.9	15.5
6	#10480.00	45.7 AV	54.0	-8.3	1.76 H	205	30.2	15.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	105.2 PK			1.00 V	330	64.7	40.5
2	*5240.00	95.0 AV			1.00 V	330	54.5	40.5
3	5350.00	56.6 PK	74.0	-17.4	1.22 V	346	52.5	4.1
4	5350.00	43.7 AV	54.0	-10.3	1.22 V	346	39.6	4.1
5	#10480.00	57.3 PK	74.0	-16.7	1.54 V	158	41.8	15.5
6	#10480.00	44.9 AV	54.0	-9.1	1.54 V	158	29.4	15.5

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	55.8 PK	74.0	-18.2	1.52 H	198	51.8	4.0
2	5150.00	42.6 AV	54.0	-11.4	1.52 H	198	38.6	4.0
3	*5260.00	107.5 PK			1.61 H	176	67.0	40.5
4	*5260.00	97.9 AV			1.61 H	176	57.4	40.5
5	#10520.00	58.6 PK	74.0	-15.4	2.90 H	111	43.1	15.5
6	#10520.00	43.8 AV	54.0	-10.2	2.90 H	111	28.3	15.5
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	55.7 PK	74.0	-18.3	2.94 V	166	51.7	4.0
2	5150.00	42.5 AV	54.0	-11.5	2.94 V	166	38.5	4.0
3	*5260.00	109.1 PK			2.99 V	164	68.6	40.5
4	*5260.00	98.3 AV			2.99 V	164	57.8	40.5
5	#10520.00	57.1 PK	74.0	-16.9	2.13 V	118	41.6	15.5
6	#10520.00	43.9 AV	54.0	-10.1	2.13 V	118	28.4	15.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	108.1 PK			1.57 H	193	67.6	40.5
2	*5300.00	96.8 AV			1.57 H	193	56.3	40.5
3	10600.00	57.0 PK	74.0	-17.0	2.84 H	125	41.2	15.8
4	10600.00	44.0 AV	54.0	-10.0	2.84 H	125	28.2	15.8
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	108.1 PK			2.96 V	166	67.6	40.5
2	*5300.00	97.6 AV			2.96 V	166	57.1	40.5
3	10600.00	57.7 PK	74.0	-16.3	1.68 V	113	41.9	15.8
4	10600.00	44.1 AV	54.0	-9.9	1.68 V	113	28.3	15.8

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 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	106.7 PK			1.38 H	193	66.1	40.6
2	*5320.00	96.6 AV			1.38 H	193	56.0	40.6
3	5350.00	62.7 PK	74.0	-11.3	1.38 H	172	58.6	4.1
4	5350.00	46.1 AV	54.0	-7.9	1.38 H	172	42.0	4.1
5	10640.00	56.8 PK	74.0	-17.2	2.61 H	145	41.0	15.8
6	10640.00	43.8 AV	54.0	-10.2	2.61 H	145	28.0	15.8
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	108.9 PK			2.94 V	169	68.3	40.6
2	*5320.00	98.2 AV			2.94 V	169	57.6	40.6
3	5350.00	64.9 PK	74.0	-9.1	2.78 V	167	60.8	4.1
4	5350.00	48.2 AV	54.0	-5.8	2.78 V	167	44.1	4.1
5	10640.00	56.6 PK	74.0	-17.4	2.95 V	301	40.8	15.8
6	10640.00	43.1 AV	54.0	-10.9	2.95 V	301	27.3	15.8

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 100	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	5460.00	56.7 PK	74.0	-17.3	1.33 H	201	52.4	4.3
2	5460.00	42.9 AV	54.0	-11.1	1.33 H	201	38.6	4.3
3	#5470.00	61.3 PK	74.0	-12.7	1.35 H	196	56.9	4.4
4	#5470.00	45.3 AV	54.0	-8.7	1.35 H	196	40.9	4.4
5	*5500.00	108.0 PK			1.38 H	198	66.7	41.3
6	*5500.00	97.1 AV			1.38 H	198	55.8	41.3
7	11000.00	57.9 PK	74.0	-16.1	1.48 H	305	40.4	17.5
8	11000.00	45.1 AV	54.0	-8.9	1.48 H	305	27.6	17.5
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	5460.00	59.1 PK	74.0	-14.9	2.27 V	120	54.8	4.3
2	5460.00	43.5 AV	54.0	-10.5	2.27 V	120	39.2	4.3
3	#5470.00	64.4 PK	74.0	-9.6	2.34 V	114	60.0	4.4
4	#5470.00	45.6 AV	54.0	-8.4	2.34 V	114	41.2	4.4
5	*5500.00	109.4 PK			2.31 V	114	68.1	41.3
6	*5500.00	98.3 AV			2.31 V	114	57.0	41.3
7	11000.00	58.4 PK	74.0	-15.6	3.47 V	85	40.9	17.5
8	11000.00	45.1 AV	54.0	-8.9	3.47 V	85	27.6	17.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	*5580.00	107.5 PK			1.38 H	202	66.1	41.4
2	*5580.00	97.1 AV			1.38 H	202	55.7	41.4
3	11160.00	56.9 PK	74.0	-17.1	2.33 H	74	40.9	16.0
4	11160.00	43.9 AV	54.0	-10.1	2.33 H	74	27.9	16.0
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	*5580.00	111.8 PK			2.32 V	114	70.4	41.4
2	*5580.00	101.4 AV			2.32 V	114	60.0	41.4
3	11160.00	56.7 PK	74.0	-17.3	1.68 V	342	40.7	16.0
4	11160.00	43.9 AV	54.0	-10.1	1.68 V	342	27.9	16.0

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	107.0 PK			1.39 H	190	65.5	41.5
2	*5700.00	96.7 AV			1.39 H	190	55.2	41.5
3	#5725.00	73.4 PK	74.0	-0.6	1.38 H	189	68.5	4.9
4	#5725.00	47.1 AV	54.0	-6.9	1.38 H	189	42.2	4.9
5	11400.00	58.8 PK	74.0	-15.2	2.23 H	194	42.7	16.1
6	11400.00	45.6 AV	54.0	-8.4	2.23 H	194	29.5	16.1
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	113.6 PK			2.29 V	114	72.1	41.5
2	*5700.00	102.8 AV			2.29 V	114	61.3	41.5
3	#5725.00	67.2 PK	74.0	-6.8	2.23 V	115	62.3	4.9
4	#5725.00	50.8 AV	54.0	-3.2	2.23 V	115	45.9	4.9
5	11400.00	58.3 PK	74.0	-15.7	2.78 V	116	42.2	16.1
6	11400.00	45.4 AV	54.0	-8.6	2.78 V	116	29.3	16.1

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5612.00	57.2 PK	68.2	-11.0	1.18 H	187	52.5	4.7
2	*5745.00	107.5 PK			1.18 H	187	65.8	41.7
3	*5745.00	97.4 AV			1.18 H	187	55.7	41.7
4	#5987.20	58.1 PK	68.2	-10.1	1.18 H	187	52.6	5.5
5	11490.00	59.2 PK	74.0	-14.8	2.45 H	157	43.2	16.0
6	11490.00	46.2 AV	54.0	-7.8	2.45 H	157	30.2	16.0
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	#5630.40	56.6 PK	68.2	-11.6	1.70 V	117	51.9	4.7
2	*5745.00	107.9 PK			1.70 V	117	66.2	41.7
3	*5745.00	97.8 AV			1.70 V	117	56.1	41.7
4	#5994.40	57.8 PK	68.2	-10.4	1.70 V	117	52.3	5.5
5	11490.00	58.8 PK	74.0	-15.2	1.76 V	254	42.8	16.0
6	11490.00	45.8 AV	54.0	-8.2	1.76 V	254	29.8	16.0

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5605.60	56.8 PK	68.2	-11.4	1.43 H	220	52.1	4.7
2	*5785.00	108.0 PK			1.43 H	220	66.1	41.9
3	*5785.00	97.9 AV			1.43 H	220	56.0	41.9
4	#5964.80	58.2 PK	68.2	-10.0	1.43 H	220	52.8	5.4
5	11570.00	58.3 PK	74.0	-15.7	2.16 H	324	42.7	15.6
6	11570.00	45.3 AV	54.0	-8.7	2.16 H	324	29.7	15.6
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	#5632.00	56.2 PK	68.2	-12.0	1.68 V	111	51.5	4.7
2	*5785.00	109.4 PK			1.68 V	111	67.5	41.9
3	*5785.00	99.2 AV			1.68 V	111	57.3	41.9
4	#5997.60	57.4 PK	68.2	-10.8	1.68 V	111	51.9	5.5
5	11570.00	58.4 PK	74.0	-15.6	1.62 V	253	42.8	15.6
6	11570.00	45.8 AV	54.0	-8.2	1.62 V	253	30.2	15.6

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5635.20	57.3 PK	68.2	-10.9	1.41 H	173	52.6	4.7
2	*5825.00	108.3 PK			1.41 H	173	66.2	42.1
3	*5825.00	98.1 AV			1.41 H	173	56.0	42.1
4	#5983.20	58.3 PK	68.2	-9.9	1.41 H	173	52.8	5.5
5	11650.00	58.0 PK	74.0	-16.0	2.43 H	169	42.7	15.3
6	11650.00	44.9 AV	54.0	-9.1	2.43 H	169	29.6	15.3
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	#5640.00	56.7 PK	68.2	-11.5	1.69 V	112	52.0	4.7
2	*5825.00	109.7 PK			1.69 V	112	67.6	42.1
3	*5825.00	99.5 AV			1.69 V	112	57.4	42.1
4	#5982.40	57.1 PK	68.2	-11.1	1.69 V	112	51.6	5.5
5	11650.00	57.9 PK	74.0	-16.1	1.97 V	203	42.6	15.3
6	11650.00	45.4 AV	54.0	-8.6	1.97 V	203	30.1	15.3

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	65.3 PK	74.0	-8.7	1.48 H	185	61.3	4.0
2	5150.00	47.9 AV	54.0	-6.1	1.48 H	185	43.9	4.0
3	*5180.00	107.4 PK			1.41 H	185	66.7	40.7
4	*5180.00	96.9 AV			1.41 H	185	56.2	40.7
5	#10360.00	59.8 PK	74.0	-14.2	2.26 H	273	44.4	15.4
6	#10360.00	45.6 AV	54.0	-8.4	2.26 H	273	30.2	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.4 PK	74.0	-8.6	3.10 V	172	61.4	4.0
2	5150.00	46.9 AV	54.0	-7.1	3.10 V	172	42.9	4.0
3	*5180.00	108.9 PK			2.94 V	174	68.2	40.7
4	*5180.00	97.7 AV			2.94 V	174	57.0	40.7
5	#10360.00	58.7 PK	74.0	-15.3	2.45 V	119	43.3	15.4
6	#10360.00	45.4 AV	54.0	-8.6	2.45 V	119	30.0	15.4

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	107.9 PK			1.42 H	176	67.2	40.7
2	*5200.00	96.9 AV			1.42 H	176	56.2	40.7
3	#10400.00	58.0 PK	74.0	-16.0	1.63 H	45	42.6	15.4
4	#10400.00	45.0 AV	54.0	-9.0	1.63 H	45	29.6	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	107.9 PK			3.06 V	169	67.2	40.7
2	*5200.00	97.2 AV			3.06 V	169	56.5	40.7
3	#10400.00	58.1 PK	74.0	-15.9	1.35 V	207	42.7	15.4
4	#10400.00	45.3 AV	54.0	-8.7	1.35 V	207	29.9	15.4

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	107.9 PK			1.56 H	183	67.4	40.5
2	*5240.00	97.2 AV			1.56 H	183	56.7	40.5
3	5350.00	56.4 PK	74.0	-17.6	1.50 H	184	52.3	4.1
4	5350.00	42.4 AV	54.0	-11.6	1.50 H	184	38.3	4.1
5	#10480.00	58.2 PK	74.0	-15.8	1.16 H	348	42.7	15.5
6	#10480.00	44.2 AV	54.0	-9.8	1.16 H	348	28.7	15.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	108.5 PK			2.89 V	170	68.0	40.5
2	*5240.00	97.3 AV			2.89 V	170	56.8	40.5
3	5350.00	55.1 PK	74.0	-18.9	2.84 V	177	51.0	4.1
4	5350.00	42.3 AV	54.0	-11.7	2.84 V	177	38.2	4.1
5	#10480.00	57.5 PK	74.0	-16.5	3.78 V	263	42.0	15.5
6	#10480.00	44.4 AV	54.0	-9.6	3.78 V	263	28.9	15.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	55.3 PK	74.0	-18.7	1.49 H	178	51.3	4.0
2	5150.00	42.6 AV	54.0	-11.4	1.49 H	178	38.6	4.0
3	*5260.00	109.0 PK			1.44 H	170	68.5	40.5
4	*5260.00	98.1 AV			1.44 H	170	57.6	40.5
5	#10520.00	57.3 PK	74.0	-16.7	3.06 H	152	41.8	15.5
6	#10520.00	43.7 AV	54.0	-10.3	3.06 H	152	28.2	15.5
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	55.5 PK	74.0	-18.5	2.71 V	162	51.5	4.0
2	5150.00	42.8 AV	54.0	-11.2	2.71 V	162	38.8	4.0
3	*5260.00	108.2 PK			2.81 V	176	67.7	40.5
4	*5260.00	97.9 AV			2.81 V	176	57.4	40.5
5	#10520.00	56.4 PK	74.0	-17.6	1.68 V	120	40.9	15.5
6	#10520.00	43.3 AV	54.0	-10.7	1.68 V	120	27.8	15.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	107.3 PK			1.44 H	170	66.8	40.5
2	*5300.00	97.0 AV			1.44 H	170	56.5	40.5
3	10600.00	57.1 PK	74.0	-16.9	1.27 H	64	41.3	15.8
4	10600.00	44.0 AV	54.0	-10.0	1.27 H	64	28.2	15.8
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	109.5 PK			2.82 V	171	69.0	40.5
2	*5300.00	98.7 AV			2.82 V	171	58.2	40.5
3	10600.00	57.7 PK	74.0	-16.3	1.42 V	188	41.9	15.8
4	10600.00	44.1 AV	54.0	-9.9	1.42 V	188	28.3	15.8

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 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	107.1 PK			1.41 H	171	66.5	40.6
2	*5320.00	95.8 AV			1.41 H	171	55.2	40.6
3	5350.00	62.6 PK	74.0	-11.4	1.41 H	170	58.5	4.1
4	5350.00	46.0 AV	54.0	-8.0	1.41 H	170	41.9	4.1
5	10640.00	57.6 PK	74.0	-16.4	2.55 H	325	41.8	15.8
6	10640.00	43.7 AV	54.0	-10.3	2.55 H	325	27.9	15.8
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	109.7 PK			2.79 V	172	69.1	40.6
2	*5320.00	99.0 AV			2.79 V	172	58.4	40.6
3	5350.00	65.7 PK	74.0	-8.3	2.75 V	173	61.6	4.1
4	5350.00	49.3 AV	54.0	-4.7	2.75 V	173	45.2	4.1
5	10640.00	57.0 PK	74.0	-17.0	3.21 V	358	41.2	15.8
6	10640.00	43.7 AV	54.0	-10.3	3.21 V	358	27.9	15.8

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 100	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	5460.00	57.1 PK	74.0	-16.9	1.33 H	194	52.8	4.3
2	5460.00	43.5 AV	54.0	-10.5	1.33 H	194	39.2	4.3
3	#5470.00	61.6 PK	74.0	-12.4	1.38 H	197	57.2	4.4
4	#5470.00	46.0 AV	54.0	-8.0	1.38 H	197	41.6	4.4
5	*5500.00	107.8 PK			1.54 H	197	66.5	41.3
6	*5500.00	97.0 AV			1.54 H	197	55.7	41.3
7	11000.00	58.2 PK	74.0	-15.8	1.63 H	293	40.7	17.5
8	11000.00	45.3 AV	54.0	-8.7	1.63 H	293	27.8	17.5
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	5460.00	59.1 PK	74.0	-14.9	2.30 V	111	54.8	4.3
2	5460.00	43.2 AV	54.0	-10.8	2.30 V	111	38.9	4.3
3	#5470.00	62.9 PK	74.0	-11.1	2.34 V	113	58.5	4.4
4	#5470.00	46.6 AV	54.0	-7.4	2.34 V	113	42.2	4.4
5	*5500.00	108.8 PK			2.36 V	114	67.5	41.3
6	*5500.00	98.2 AV			2.36 V	114	56.9	41.3
7	11000.00	58.7 PK	74.0	-15.3	1.52 V	305	41.2	17.5
8	11000.00	45.0 AV	54.0	-9.0	1.52 V	305	27.5	17.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	*5580.00	108.8 PK			1.30 H	198	67.4	41.4
2	*5580.00	98.3 AV			1.30 H	198	56.9	41.4
3	11160.00	57.0 PK	74.0	-17.0	1.18 H	243	41.0	16.0
4	11160.00	43.5 AV	54.0	-10.5	1.18 H	243	27.5	16.0
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	*5580.00	110.9 PK			2.31 V	113	69.5	41.4
2	*5580.00	100.8 AV			2.31 V	113	59.4	41.4
3	11160.00	56.6 PK	74.0	-17.4	1.74 V	169	40.6	16.0
4	11160.00	43.8 AV	54.0	-10.2	1.74 V	169	27.8	16.0

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	107.8 PK			1.27 H	194	66.3	41.5
2	*5700.00	97.1 AV			1.27 H	194	55.6	41.5
3	#5725.00	65.1 PK	74.0	-8.9	1.24 H	195	60.2	4.9
4	#5725.00	48.4 AV	54.0	-5.6	1.24 H	195	43.5	4.9
5	11400.00	58.2 PK	74.0	-15.8	2.59 H	341	42.1	16.1
6	11400.00	44.7 AV	54.0	-9.3	2.59 H	341	28.6	16.1
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	112.5 PK			2.25 V	112	71.0	41.5
2	*5700.00	101.5 AV			2.25 V	112	60.0	41.5
3	#5725.00	67.4 PK	74.0	-6.6	2.24 V	113	62.5	4.9
4	#5725.00	51.7 AV	54.0	-2.3	2.24 V	113	46.8	4.9
5	11400.00	57.8 PK	74.0	-16.2	2.78 V	164	41.7	16.1
6	11400.00	44.9 AV	54.0	-9.1	2.78 V	164	28.8	16.1

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	#5612.80	56.0 PK	68.2	-12.2	1.22 H	190	51.3	4.7
2	*5745.00	108.3 PK			1.22 H	190	66.6	41.7
3	*5745.00	97.9 AV			1.22 H	190	56.2	41.7
4	#5962.40	57.3 PK	68.2	-10.9	1.22 H	190	51.9	5.4
5	11490.00	57.8 PK	74.0	-16.2	3.01 H	261	41.8	16.0
6	11490.00	45.6 AV	54.0	-8.4	3.01 H	261	29.6	16.0
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	#5636.80	57.2 PK	68.2	-11.0	1.68 V	110	52.5	4.7
2	*5745.00	109.1 PK			1.68 V	110	67.4	41.7
3	*5745.00	99.0 AV			1.68 V	110	57.3	41.7
4	#5988.80	57.5 PK	68.2	-10.7	1.68 V	110	52.0	5.5
5	11490.00	59.2 PK	74.0	-14.8	2.46 V	213	43.2	16.0
6	11490.00	46.2 AV	54.0	-7.8	2.46 V	213	30.2	16.0

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5612.80	57.4 PK	68.2	-10.8	1.22 H	183	52.7	4.7
2	*5785.00	107.7 PK			1.22 H	183	65.8	41.9
3	*5785.00	97.3 AV			1.22 H	183	55.4	41.9
4	#5995.20	57.5 PK	68.2	-10.7	1.22 H	183	52.0	5.5
5	11570.00	57.5 PK	74.0	-16.5	3.17 H	234	41.9	15.6
6	11570.00	45.1 AV	54.0	-8.9	3.17 H	234	29.5	15.6
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	#5624.80	56.0 PK	68.2	-12.2	1.67 V	110	51.3	4.7
2	*5785.00	109.2 PK			1.67 V	110	67.3	41.9
3	*5785.00	98.8 AV			1.67 V	110	56.9	41.9
4	#5997.60	58.3 PK	68.2	-9.9	1.67 V	110	52.8	5.5
5	11570.00	57.7 PK	74.0	-16.3	3.04 V	175	42.1	15.6
6	11570.00	45.9 AV	54.0	-8.1	3.04 V	175	30.3	15.6

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5640.00	56.4 PK	68.2	-11.8	1.20 H	183	51.7	4.7
2	*5825.00	108.6 PK			1.20 H	183	66.5	42.1
3	*5825.00	98.3 AV			1.20 H	183	56.2	42.1
4	#5957.60	57.4 PK	68.2	-10.8	1.20 H	183	52.0	5.4
5	11650.00	57.0 PK	74.0	-17.0	3.17 H	209	41.7	15.3
6	11650.00	45.0 AV	54.0	-9.0	3.17 H	209	29.7	15.3
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	#5608.00	56.4 PK	68.2	-11.8	1.71 V	112	51.7	4.7
2	*5825.00	110.0 PK			1.71 V	112	67.9	42.1
3	*5825.00	99.9 AV			1.71 V	112	57.8	42.1
4	#5928.00	58.0 PK	68.2	-10.2	1.71 V	112	52.5	5.5
5	11650.00	58.1 PK	74.0	-15.9	2.07 V	193	42.8	15.3
6	11650.00	45.7 AV	54.0	-8.3	2.07 V	193	30.4	15.3

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	72.8 PK	74.0	-1.2	1.55 H	191	68.8	4.0
2	5150.00	49.8 AV	54.0	-4.2	1.55 H	191	45.8	4.0
3	*5190.00	104.8 PK			1.57 H	191	64.1	40.7
4	*5190.00	93.6 AV			1.57 H	191	52.9	40.7
5	#10380.00	58.1 PK	74.0	-15.9	2.84 H	198	42.7	15.4
6	#10380.00	44.9 AV	54.0	-9.1	2.84 H	198	29.5	15.4
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	67.0 PK	74.0	-7.0	1.89 V	293	63.0	4.0
2	5150.00	46.3 AV	54.0	-7.7	1.89 V	293	42.3	4.0
3	*5190.00	100.8 PK			1.72 V	294	60.1	40.7
4	*5190.00	90.0 AV			1.72 V	294	49.3	40.7
5	#10380.00	58.7 PK	74.0	-15.3	2.26 V	172	43.3	15.4
6	#10380.00	44.9 AV	54.0	-9.1	2.26 V	172	29.5	15.4

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	*5230.00	106.4 PK			1.56 H	192	65.9	40.5
2	*5230.00	95.1 AV			1.56 H	192	54.6	40.5
3	5350.00	57.0 PK	74.0	-17.0	1.52 H	194	52.9	4.1
4	5350.00	43.9 AV	54.0	-10.1	1.52 H	194	39.8	4.1
5	#10460.00	58.3 PK	74.0	-15.7	1.64 H	328	42.9	15.4
6	#10460.00	44.3 AV	54.0	-9.7	1.64 H	328	28.9	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	103.3 PK			1.78 V	293	62.8	40.5
2	*5230.00	92.1 AV			1.78 V	293	51.6	40.5
3	5350.00	57.3 PK	74.0	-16.7	1.87 V	284	53.2	4.1
4	5350.00	43.6 AV	54.0	-10.4	1.87 V	284	39.5	4.1
5	#10460.00	57.8 PK	74.0	-16.2	1.63 V	179	42.4	15.4
6	#10460.00	44.2 AV	54.0	-9.8	1.63 V	179	28.8	15.4

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.3 PK	74.0	-16.7	1.62 H	198	53.3	4.0
2	5150.00	43.5 AV	54.0	-10.5	1.62 H	198	39.5	4.0
3	*5270.00	106.1 PK			1.66 H	202	65.6	40.5
4	*5270.00	95.1 AV			1.66 H	202	54.6	40.5
5	#10540.00	58.5 PK	74.0	-15.5	2.73 H	116	42.9	15.6
6	#10540.00	45.0 AV	54.0	-9.0	2.73 H	116	29.4	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	1.67 V	300	52.2	4.0
2	5150.00	43.4 AV	54.0	-10.6	1.67 V	300	39.4	4.0
3	*5270.00	103.0 PK			1.69 V	292	62.5	40.5
4	*5270.00	92.4 AV			1.69 V	292	51.9	40.5
5	#10540.00	57.9 PK	74.0	-16.1	1.89 V	315	42.3	15.6
6	#10540.00	45.2 AV	54.0	-8.8	1.89 V	315	29.6	15.6

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	104.8 PK			1.45 H	203	64.3	40.5
2	*5310.00	93.6 AV			1.45 H	203	53.1	40.5
3	5350.00	72.5 PK	74.0	-1.5	1.45 H	204	68.4	4.1
4	5350.00	49.1 AV	54.0	-4.9	1.45 H	204	45.0	4.1
5	10620.00	58.6 PK	74.0	-15.4	2.46 H	165	42.8	15.8
6	10620.00	45.1 AV	54.0	-8.9	2.46 H	165	29.3	15.8
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	99.5 PK			1.73 V	293	59.0	40.5
2	*5310.00	89.1 AV			1.73 V	293	48.6	40.5
3	5350.00	66.1 PK	74.0	-7.9	1.62 V	312	62.0	4.1
4	5350.00	46.0 AV	54.0	-8.0	1.62 V	312	41.9	4.1
5	10620.00	58.0 PK	74.0	-16.0	2.12 V	71	42.2	15.8
6	10620.00	45.0 AV	54.0	-9.0	2.12 V	71	29.2	15.8

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 102	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	5460.00	66.8 PK	74.0	-7.2	1.81 H	233	62.5	4.3
2	5460.00	48.9 AV	54.0	-5.1	1.81 H	233	44.6	4.3
3	#5470.00	72.8 PK	74.0	-1.2	1.79 H	231	68.4	4.4
4	#5470.00	51.8 AV	54.0	-2.2	1.79 H	231	47.4	4.4
5	*5510.00	105.6 PK			1.82 H	233	64.3	41.3
6	*5510.00	94.2 AV			1.82 H	233	52.9	41.3
7	11020.00	60.2 PK	74.0	-13.8	1.40 H	128	43.0	17.2
8	11020.00	46.1 AV	54.0	-7.9	1.40 H	128	28.9	17.2
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	5460.00	60.6 PK	74.0	-13.4	1.91 V	196	56.3	4.3
2	5460.00	46.1 AV	54.0	-7.9	1.91 V	196	41.8	4.3
3	#5470.00	71.8 PK	74.0	-2.2	1.87 V	202	67.4	4.4
4	#5470.00	50.0 AV	54.0	-4.0	1.87 V	202	45.6	4.4
5	*5510.00	101.6 PK			1.88 V	202	60.3	41.3
6	*5510.00	90.7 AV			1.88 V	202	49.4	41.3
7	11020.00	59.1 PK	74.0	-14.9	2.21 V	168	41.9	17.2
8	11020.00	46.0 AV	54.0	-8.0	2.21 V	168	28.8	17.2

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	*5550.00	107.6 PK			1.46 H	206	66.2	41.4
2	*5550.00	95.9 AV			1.46 H	206	54.5	41.4
3	11100.00	57.8 PK	74.0	-16.2	2.71 H	264	41.6	16.2
4	11100.00	45.0 AV	54.0	-9.0	2.71 H	264	28.8	16.2
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	*5550.00	104.9 PK			2.01 V	141	63.5	41.4
2	*5550.00	94.0 AV			2.01 V	141	52.6	41.4
3	11100.00	58.2 PK	74.0	-15.8	2.94 V	107	42.0	16.2
4	11100.00	45.0 AV	54.0	-9.0	2.94 V	107	28.8	16.2

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	107.3 PK			1.30 H	210	65.8	41.5
2	*5670.00	95.3 AV			1.30 H	210	53.8	41.5
3	#5725.00	62.1 PK	74.0	-11.9	1.26 H	208	57.2	4.9
4	#5725.00	46.1 AV	54.0	-7.9	1.26 H	208	41.2	4.9
5	11340.00	58.4 PK	74.0	-15.6	2.04 H	168	42.0	16.4
6	11340.00	45.3 AV	54.0	-8.7	2.04 H	168	28.9	16.4
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	106.3 PK			1.97 V	131	64.8	41.5
2	*5670.00	95.5 AV			1.97 V	131	54.0	41.5
3	#5725.00	61.7 PK	74.0	-12.3	1.82 V	131	56.8	4.9
4	#5725.00	46.5 AV	54.0	-7.5	1.82 V	131	41.6	4.9
5	11340.00	57.2 PK	74.0	-16.8	1.27 V	133	40.8	16.4
6	11340.00	44.2 AV	54.0	-9.8	1.27 V	133	27.8	16.4

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	#5627.20	56.7 PK	68.2	-11.5	1.19 H	190	52.0	4.7
2	*5755.00	104.7 PK			1.19 H	190	62.9	41.8
3	*5755.00	94.1 AV			1.19 H	190	52.3	41.8
4	#5980.80	57.5 PK	68.2	-10.7	1.19 H	190	52.0	5.5
5	11510.00	58.2 PK	74.0	-15.8	2.06 H	134	42.3	15.9
6	11510.00	45.5 AV	54.0	-8.5	2.06 H	134	29.6	15.9
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	#5615.20	56.7 PK	68.2	-11.5	1.73 V	114	52.0	4.7
2	*5755.00	105.5 PK			1.73 V	114	63.7	41.8
3	*5755.00	95.1 AV			1.73 V	114	53.3	41.8
4	#5936.00	57.4 PK	68.2	-10.8	1.73 V	114	52.0	5.4
5	11510.00	58.7 PK	74.0	-15.3	2.06 V	341	42.8	15.9
6	11510.00	46.0 AV	54.0	-8.0	2.06 V	341	30.1	15.9

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	#5627.20	56.3 PK	68.2	-11.9	1.17 H	185	51.6	4.7
2	*5795.00	103.6 PK			1.17 H	185	61.6	42.0
3	*5795.00	93.1 AV			1.17 H	185	51.1	42.0
4	#5932.80	56.7 PK	68.2	-11.5	1.17 H	185	51.2	5.5
5	11590.00	57.3 PK	74.0	-16.7	1.95 H	127	41.8	15.5
6	11590.00	45.3 AV	54.0	-8.7	1.95 H	127	29.8	15.5
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	#5642.40	56.1 PK	68.2	-12.1	1.82 V	115	51.4	4.7
2	*5795.00	105.4 PK			1.82 V	115	63.4	42.0
3	*5795.00	94.6 AV			1.82 V	115	52.6	42.0
4	#5996.80	57.4 PK	68.2	-10.8	1.82 V	115	51.9	5.5
5	11590.00	58.2 PK	74.0	-15.8	1.18 V	245	42.7	15.5
6	11590.00	45.6 AV	54.0	-8.4	1.18 V	245	30.1	15.5

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.

802.11ac (VHT80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	1.59 H	184	55.3	4.0
2	5150.00	43.9 AV	54.0	-10.1	1.59 H	184	39.9	4.0
3	*5210.00	96.6 PK			1.56 H	184	56.0	40.6
4	*5210.00	81.5 AV			1.56 H	184	40.9	40.6
5	5350.00	55.4 PK	74.0	-18.6	1.55 H	178	51.3	4.1
6	5350.00	42.4 AV	54.0	-11.6	1.55 H	178	38.3	4.1
7	#10420.00	58.4 PK	74.0	-15.6	1.65 H	322	43.1	15.3
8	#10420.00	44.6 AV	54.0	-9.4	1.65 H	322	29.3	15.3
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	55.5 PK	74.0	-18.5	1.51 V	243	51.5	4.0
2	5150.00	42.8 AV	54.0	-11.2	1.51 V	243	38.8	4.0
3	*5210.00	92.4 PK			1.56 V	245	51.8	40.6
4	*5210.00	78.2 AV			1.56 V	245	37.6	40.6
5	5350.00	55.2 PK	74.0	-18.8	1.48 V	236	51.1	4.1
6	5350.00	42.5 AV	54.0	-11.5	1.48 V	236	38.4	4.1
7	#10420.00	57.6 PK	74.0	-16.4	2.84 V	163	42.3	15.3
8	#10420.00	44.7 AV	54.0	-9.3	2.84 V	163	29.4	15.3

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 58	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	56.1 PK	74.0	-17.9	1.44 H	168	52.1	4.0
2	5150.00	42.8 AV	54.0	-11.2	1.44 H	168	38.8	4.0
3	*5290.00	96.7 PK			1.40 H	174	56.2	40.5
4	*5290.00	80.3 AV			1.40 H	174	39.8	40.5
5	5350.00	56.1 PK	74.0	-17.9	1.45 H	177	52.0	4.1
6	5350.00	42.7 AV	54.0	-11.3	1.45 H	177	38.6	4.1
7	#10580.00	56.6 PK	74.0	-17.4	2.41 H	196	40.9	15.7
8	#10580.00	43.7 AV	54.0	-10.3	2.41 H	196	28.0	15.7
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	55.8 PK	74.0	-18.2	2.61 V	165	51.8	4.0
2	5150.00	42.6 AV	54.0	-11.4	2.61 V	165	38.6	4.0
3	*5290.00	98.5 PK			2.82 V	172	58.0	40.5
4	*5290.00	81.8 AV			2.82 V	172	41.3	40.5
5	5350.00	59.3 PK	74.0	-14.7	2.65 V	172	55.2	4.1
6	5350.00	43.9 AV	54.0	-10.1	2.65 V	172	39.8	4.1
7	#10580.00	57.0 PK	74.0	-17.0	1.74 V	120	41.3	15.7
8	#10580.00	43.6 AV	54.0	-10.4	1.74 V	120	27.9	15.7

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 106	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	5460.00	59.5 PK	74.0	-14.5	1.27 H	205	55.2	4.3
2	5460.00	45.3 AV	54.0	-8.7	1.27 H	205	41.0	4.3
3	#5470.00	59.7 PK	74.0	-14.3	1.28 H	200	55.3	4.4
4	#5470.00	45.6 AV	54.0	-8.4	1.28 H	200	41.2	4.4
5	*5530.00	96.9 PK			1.25 H	201	55.6	41.3
6	*5530.00	82.3 AV			1.25 H	201	41.0	41.3
7	#5725.00	56.1 PK	74.0	-17.9	1.20 H	204	51.2	4.9
8	#5725.00	43.8 AV	54.0	-10.2	1.20 H	204	38.9	4.9
9	11060.00	58.3 PK	74.0	-15.7	1.99 H	267	41.6	16.7
10	11060.00	44.8 AV	54.0	-9.2	1.99 H	267	28.1	16.7
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	5460.00	57.0 PK	74.0	-17.0	1.44 V	211	52.7	4.3
2	5460.00	43.6 AV	54.0	-10.4	1.44 V	211	39.3	4.3
3	#5470.00	57.3 PK	74.0	-16.7	1.45 V	210	52.9	4.4
4	#5470.00	44.3 AV	54.0	-9.7	1.45 V	210	39.9	4.4
5	*5530.00	93.8 PK			1.42 V	214	52.5	41.3
6	*5530.00	79.1 AV			1.42 V	214	37.8	41.3
7	#5725.00	56.2 PK	74.0	-17.8	1.47 V	215	51.3	4.9
8	#5725.00	43.5 AV	54.0	-10.5	1.47 V	215	38.6	4.9
9	11060.00	57.6 PK	74.0	-16.4	2.46 V	118	40.9	16.7
10	11060.00	44.5 AV	54.0	-9.5	2.46 V	118	27.8	16.7

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 155	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5632.00	56.2 PK	68.2	-12.0	1.17 H	188	51.5	4.7
2	*5775.00	97.0 PK			1.17 H	188	55.1	41.9
3	*5775.00	82.5 AV			1.17 H	188	40.6	41.9
4	#5990.40	56.9 PK	68.2	-11.3	1.17 H	188	51.4	5.5
5	11550.00	57.9 PK	74.0	-16.1	1.64 H	208	42.1	15.8
6	11550.00	45.5 AV	54.0	-8.5	1.64 H	208	29.7	15.8
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	#5612.80	57.1 PK	68.2	-11.1	1.67 V	114	52.4	4.7
2	*5775.00	97.3 PK			1.67 V	114	55.4	41.9
3	*5775.00	83.2 AV			1.67 V	114	41.3	41.9
4	#5997.60	57.8 PK	68.2	-10.4	1.67 V	114	52.3	5.5
5	11550.00	59.0 PK	74.0	-15.0	2.76 V	141	43.2	15.8
6	11550.00	46.2 AV	54.0	-7.8	2.76 V	141	30.4	15.8

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.

Test Mode B

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.8 PK	74.0	-17.2	3.47 H	356	52.8	4.0
2	5150.00	44.4 AV	54.0	-9.6	3.47 H	356	40.4	4.0
3	*5180.00	108.2 PK			3.61 H	13	67.5	40.7
4	*5180.00	97.8 AV			3.61 H	13	57.1	40.7
5	#10360.00	58.7 PK	74.0	-15.3	2.94 H	176	43.3	15.4
6	#10360.00	45.7 AV	54.0	-8.3	2.94 H	176	30.3	15.4
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	55.5 PK	74.0	-18.5	3.75 V	129	51.5	4.0
2	5150.00	42.7 AV	54.0	-11.3	3.75 V	129	38.7	4.0
3	*5180.00	107.2 PK			3.63 V	121	66.5	40.7
4	*5180.00	96.9 AV			3.63 V	121	56.2	40.7
5	#10360.00	58.1 PK	74.0	-15.9	2.04 V	163	42.7	15.4
6	#10360.00	45.1 AV	54.0	-8.9	2.04 V	163	29.7	15.4

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	109.2 PK			3.54 H	11	68.5	40.7
2	*5200.00	98.8 AV			3.54 H	11	58.1	40.7
3	#10400.00	58.7 PK	74.0	-15.3	2.17 H	106	43.3	15.4
4	#10400.00	45.9 AV	54.0	-8.1	2.17 H	106	30.5	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.3 PK			3.64 V	122	67.6	40.7
2	*5200.00	98.1 AV			3.64 V	122	57.4	40.7
3	#10400.00	57.3 PK	74.0	-16.7	1.08 V	319	41.9	15.4
4	#10400.00	45.1 AV	54.0	-8.9	1.08 V	319	29.7	15.4

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	109.2 PK			3.50 H	17	68.7	40.5
2	*5240.00	98.8 AV			3.50 H	17	58.3	40.5
3	5350.00	54.9 PK	74.0	-19.1	3.49 H	12	50.8	4.1
4	5350.00	42.7 AV	54.0	-11.3	3.49 H	12	38.6	4.1
5	#10480.00	58.7 PK	74.0	-15.3	2.46 H	307	43.2	15.5
6	#10480.00	45.9 AV	54.0	-8.1	2.46 H	307	30.4	15.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	108.3 PK			3.68 V	124	67.8	40.5
2	*5240.00	98.0 AV			3.68 V	124	57.5	40.5
3	5350.00	54.6 PK	74.0	-19.4	3.76 V	118	50.5	4.1
4	5350.00	42.3 AV	54.0	-11.7	3.76 V	118	38.2	4.1
5	#10480.00	57.6 PK	74.0	-16.4	1.76 V	223	42.1	15.5
6	#10480.00	45.1 AV	54.0	-8.9	1.76 V	223	29.6	15.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	55.5 PK	74.0	-18.5	1.47 H	165	51.5	4.0
2	5150.00	42.7 AV	54.0	-11.3	1.47 H	165	38.7	4.0
3	*5260.00	108.3 PK			1.44 H	172	67.8	40.5
4	*5260.00	98.1 AV			1.44 H	172	57.6	40.5
5	#10520.00	56.0 PK	74.0	-18.0	2.65 H	161	40.5	15.5
6	#10520.00	43.5 AV	54.0	-10.5	2.65 H	161	28.0	15.5
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	55.4 PK	74.0	-18.6	2.22 V	178	51.4	4.0
2	5150.00	42.5 AV	54.0	-11.5	2.22 V	178	38.5	4.0
3	*5260.00	110.2 PK			2.27 V	174	69.7	40.5
4	*5260.00	99.4 AV			2.27 V	174	58.9	40.5
5	#10520.00	56.9 PK	74.0	-17.1	2.41 V	268	41.4	15.5
6	#10520.00	43.8 AV	54.0	-10.2	2.41 V	268	28.3	15.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	106.5 PK			1.44 H	170	66.0	40.5
2	*5300.00	96.5 AV			1.44 H	170	56.0	40.5
3	10600.00	56.5 PK	74.0	-17.5	1.29 H	341	40.7	15.8
4	10600.00	43.6 AV	54.0	-10.4	1.29 H	341	27.8	15.8
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			2.38 V	169	69.8	40.5
2	*5300.00	100.1 AV			2.38 V	169	59.6	40.5
3	10600.00	56.9 PK	74.0	-17.1	1.72 V	54	41.1	15.8
4	10600.00	44.1 AV	54.0	-9.9	1.72 V	54	28.3	15.8

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 64	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	106.8 PK			1.42 H	170	66.2	40.6
2	*5320.00	95.6 AV			1.42 H	170	55.0	40.6
3	5350.00	62.6 PK	74.0	-11.4	1.33 H	188	58.5	4.1
4	5350.00	46.9 AV	54.0	-7.1	1.33 H	188	42.8	4.1
5	10640.00	57.6 PK	74.0	-16.4	2.37 H	284	41.8	15.8
6	10640.00	43.8 AV	54.0	-10.2	2.37 H	284	28.0	15.8
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	111.0 PK			2.46 V	170	70.4	40.6
2	*5320.00	100.0 AV			2.46 V	170	59.4	40.6
3	5350.00	68.0 PK	74.0	-6.0	2.33 V	174	63.9	4.1
4	5350.00	48.9 AV	54.0	-5.1	2.33 V	174	44.8	4.1
5	10640.00	57.0 PK	74.0	-17.0	3.82 V	107	41.2	15.8
6	10640.00	43.7 AV	54.0	-10.3	3.82 V	107	27.9	15.8

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 100	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	5460.00	57.6 PK	74.0	-16.4	3.05 H	3	53.3	4.3
2	5460.00	44.0 AV	54.0	-10.0	3.05 H	3	39.7	4.3
3	#5470.00	63.6 PK	74.0	-10.4	3.31 H	19	59.2	4.4
4	#5470.00	48.3 AV	54.0	-5.7	3.31 H	19	43.9	4.4
5	*5500.00	108.8 PK			3.16 H	18	67.5	41.3
6	*5500.00	98.4 AV			3.16 H	18	57.1	41.3
7	11000.00	59.7 PK	74.0	-14.3	2.04 H	157	42.2	17.5
8	11000.00	47.3 AV	54.0	-6.7	2.04 H	157	29.8	17.5
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	5460.00	56.3 PK	74.0	-17.7	3.77 V	102	52.0	4.3
2	5460.00	44.0 AV	54.0	-10.0	3.77 V	102	39.7	4.3
3	#5470.00	63.5 PK	74.0	-10.5	3.91 V	133	59.1	4.4
4	#5470.00	47.0 AV	54.0	-7.0	3.91 V	133	42.6	4.4
5	*5500.00	107.3 PK			3.83 V	99	66.0	41.3
6	*5500.00	96.9 AV			3.83 V	99	55.6	41.3
7	11000.00	61.1 PK	74.0	-12.9	1.67 V	234	43.6	17.5
8	11000.00	46.9 AV	54.0	-7.1	1.67 V	234	29.4	17.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	*5580.00	109.7 PK			3.10 H	19	68.3	41.4
2	*5580.00	99.6 AV			3.10 H	19	58.2	41.4
3	11600.00	58.7 PK	74.0	-15.3	2.04 H	175	43.2	15.5
4	11600.00	45.8 AV	54.0	-8.2	2.04 H	175	30.3	15.5
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	*5580.00	106.6 PK			3.73 V	34	65.2	41.4
2	*5580.00	96.4 AV			3.73 V	34	55.0	41.4
3	11160.00	57.9 PK	74.0	-16.1	2.41 V	185	41.9	16.0
4	11160.00	45.6 AV	54.0	-8.4	2.41 V	185	29.6	16.0

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	106.4 PK			3.08 H	29	64.9	41.5
2	*5700.00	96.4 AV			3.08 H	29	54.9	41.5
3	#5725.00	59.8 PK	74.0	-14.2	2.99 H	39	54.9	4.9
4	#5725.00	46.2 AV	54.0	-7.8	2.99 H	39	41.3	4.9
5	11400.00	59.2 PK	74.0	-14.8	2.74 H	145	43.1	16.1
6	11400.00	46.2 AV	54.0	-7.8	2.74 H	145	30.1	16.1
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	105.6 PK			3.73 V	102	64.1	41.5
2	*5700.00	95.5 AV			3.73 V	102	54.0	41.5
3	#5725.00	57.5 PK	74.0	-16.5	3.87 V	115	52.6	4.9
4	#5725.00	45.3 AV	54.0	-8.7	3.87 V	115	40.4	4.9
5	11400.00	58.0 PK	74.0	-16.0	3.04 V	175	41.9	16.1
6	11400.00	45.7 AV	54.0	-8.3	3.04 V	175	29.6	16.1

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	#5615.20	58.5 PK	68.2	-9.7	1.65 H	164	53.8	4.7
2	*5745.00	107.4 PK			1.65 H	164	65.7	41.7
3	*5745.00	96.7 AV			1.65 H	164	55.0	41.7
4	#5938.40	59.1 PK	68.2	-9.1	1.65 H	164	53.7	5.4
5	11490.00	58.3 PK	74.0	-15.7	1.88 H	304	42.3	16.0
6	11490.00	45.2 AV	54.0	-8.8	1.88 H	304	29.2	16.0
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	#5644.00	58.8 PK	68.2	-9.4	2.24 V	111	54.1	4.7
2	*5745.00	109.8 PK			2.24 V	111	68.1	41.7
3	*5745.00	98.6 AV			2.24 V	111	56.9	41.7
4	#5939.20	59.5 PK	68.2	-8.7	2.24 V	111	54.1	5.4
5	11490.00	59.3 PK	74.0	-14.7	2.61 V	184	43.3	16.0
6	11490.00	45.1 AV	54.0	-8.9	2.61 V	184	29.1	16.0

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5604.80	58.3 PK	68.2	-9.9	1.64 H	166	53.6	4.7
2	*5785.00	108.8 PK			1.64 H	166	66.9	41.9
3	*5785.00	97.4 AV			1.64 H	166	55.5	41.9
4	#5942.40	59.1 PK	68.2	-9.1	1.64 H	166	53.7	5.4
5	11570.00	57.7 PK	74.0	-16.3	2.77 H	108	42.1	15.6
6	11570.00	45.2 AV	54.0	-8.8	2.77 H	108	29.6	15.6
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	#5611.20	58.5 PK	68.2	-9.7	2.29 V	108	53.8	4.7
2	*5785.00	110.4 PK			2.29 V	108	68.5	41.9
3	*5785.00	99.9 AV			2.29 V	108	58.0	41.9
4	#5944.00	59.2 PK	68.2	-9.0	2.29 V	108	53.8	5.4
5	11570.00	58.9 PK	74.0	-15.1	1.42 V	306	43.3	15.6
6	11570.00	45.5 AV	54.0	-8.5	1.42 V	306	29.9	15.6

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5628.80	57.8 PK	68.2	-10.4	1.67 H	164	53.1	4.7
2	*5825.00	109.3 PK			1.67 H	164	67.2	42.1
3	*5825.00	98.6 AV			1.67 H	164	56.5	42.1
4	#5992.00	59.1 PK	68.2	-9.1	1.67 H	164	53.6	5.5
5	11650.00	56.9 PK	74.0	-17.1	2.86 H	41	41.6	15.3
6	11650.00	44.1 AV	54.0	-9.9	2.86 H	41	28.8	15.3
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	#5647.20	58.8 PK	68.2	-9.4	2.35 V	108	54.1	4.7
2	*5825.00	111.4 PK			2.35 V	108	69.3	42.1
3	*5825.00	100.9 AV			2.35 V	108	58.8	42.1
4	#5992.00	58.9 PK	68.2	-9.3	2.35 V	108	53.4	5.5
5	11650.00	56.8 PK	74.0	-17.2	1.87 V	140	41.5	15.3
6	11650.00	44.1 AV	54.0	-9.9	1.87 V	140	28.8	15.3

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.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.0 PK	74.0	-17.0	3.44 H	16	53.0	4.0
2	5150.00	44.2 AV	54.0	-9.8	3.44 H	16	40.2	4.0
3	*5180.00	107.6 PK			3.61 H	8	66.9	40.7
4	*5180.00	97.5 AV			3.61 H	8	56.8	40.7
5	#10360.00	58.6 PK	74.0	-15.4	1.96 H	238	43.2	15.4
6	#10360.00	45.8 AV	54.0	-8.2	1.96 H	238	30.4	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.1 PK	74.0	-17.9	3.76 V	116	52.1	4.0
2	5150.00	42.9 AV	54.0	-11.1	3.76 V	116	38.9	4.0
3	*5180.00	106.5 PK			3.71 V	110	65.8	40.7
4	*5180.00	96.4 AV			3.71 V	110	55.7	40.7
5	#10360.00	57.2 PK	74.0	-16.8	3.72 V	291	41.8	15.4
6	#10360.00	45.0 AV	54.0	-9.0	3.72 V	291	29.6	15.4

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.6 PK			3.46 H	15	67.9	40.7
2	*5200.00	98.5 AV			3.46 H	15	57.8	40.7
3	#10400.00	58.8 PK	74.0	-15.2	2.34 H	184	43.4	15.4
4	#10400.00	46.0 AV	54.0	-8.0	2.34 H	184	30.6	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.3 PK			3.67 V	107	67.6	40.7
2	*5200.00	98.1 AV			3.67 V	107	57.4	40.7
3	#10400.00	57.5 PK	74.0	-16.5	1.12 V	238	42.1	15.4
4	#10400.00	45.2 AV	54.0	-8.8	1.12 V	238	29.8	15.4

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	109.7 PK			3.49 H	14	69.2	40.5
2	*5240.00	99.3 AV			3.49 H	14	58.8	40.5
3	5350.00	54.9 PK	74.0	-19.1	3.65 H	7	50.8	4.1
4	5350.00	42.4 AV	54.0	-11.6	3.65 H	7	38.3	4.1
5	#10480.00	58.7 PK	74.0	-15.3	2.74 H	160	43.2	15.5
6	#10480.00	46.0 AV	54.0	-8.0	2.74 H	160	30.5	15.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	108.7 PK			3.67 V	106	68.2	40.5
2	*5240.00	97.9 AV			3.67 V	106	57.4	40.5
3	5350.00	54.7 PK	74.0	-19.3	3.73 V	114	50.6	4.1
4	5350.00	42.0 AV	54.0	-12.0	3.73 V	114	37.9	4.1
5	#10480.00	57.4 PK	74.0	-16.6	1.72 V	204	41.9	15.5
6	#10480.00	45.3 AV	54.0	-8.7	1.72 V	204	29.8	15.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.8 PK	74.0	-17.2	1.42 H	178	52.8	4.0
2	5150.00	42.5 AV	54.0	-11.5	1.42 H	178	38.5	4.0
3	*5260.00	107.0 PK			1.49 H	168	66.5	40.5
4	*5260.00	96.9 AV			1.49 H	168	56.4	40.5
5	#10520.00	56.8 PK	74.0	-17.2	1.73 H	204	41.3	15.5
6	#10520.00	43.9 AV	54.0	-10.1	1.73 H	204	28.4	15.5
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	55.4 PK	74.0	-18.6	2.22 V	164	51.4	4.0
2	5150.00	42.6 AV	54.0	-11.4	2.22 V	164	38.6	4.0
3	*5260.00	109.8 PK			2.30 V	170	69.3	40.5
4	*5260.00	98.9 AV			2.30 V	170	58.4	40.5
5	#10520.00	56.7 PK	74.0	-17.3	1.94 V	130	41.2	15.5
6	#10520.00	43.6 AV	54.0	-10.4	1.94 V	130	28.1	15.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	106.7 PK			1.47 H	172	66.2	40.5
2	*5300.00	96.2 AV			1.47 H	172	55.7	40.5
3	10600.00	57.4 PK	74.0	-16.6	3.26 H	158	41.6	15.8
4	10600.00	44.3 AV	54.0	-9.7	3.26 H	158	28.5	15.8
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	109.5 PK			2.35 V	174	69.0	40.5
2	*5300.00	98.9 AV			2.35 V	174	58.4	40.5
3	10600.00	57.3 PK	74.0	-16.7	3.61 V	263	41.5	15.8
4	10600.00	44.1 AV	54.0	-9.9	3.61 V	263	28.3	15.8

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 64	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	107.0 PK			1.42 H	170	66.4	40.6
2	*5320.00	96.0 AV			1.42 H	170	55.4	40.6
3	5350.00	63.9 PK	74.0	-10.1	1.45 H	175	59.8	4.1
4	5350.00	47.4 AV	54.0	-6.6	1.45 H	175	43.3	4.1
5	10640.00	57.4 PK	74.0	-16.6	1.97 H	22	41.6	15.8
6	10640.00	43.9 AV	54.0	-10.1	1.97 H	22	28.1	15.8
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	110.0 PK			2.33 V	175	69.4	40.6
2	*5320.00	99.3 AV			2.33 V	175	58.7	40.6
3	5350.00	65.5 PK	74.0	-8.5	2.34 V	175	61.4	4.1
4	5350.00	48.8 AV	54.0	-5.2	2.34 V	175	44.7	4.1
5	10640.00	56.6 PK	74.0	-17.4	1.50 V	164	40.8	15.8
6	10640.00	43.6 AV	54.0	-10.4	1.50 V	164	27.8	15.8

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 100	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	5460.00	59.7 PK	74.0	-14.3	3.34 H	29	55.4	4.3
2	5460.00	44.4 AV	54.0	-9.6	3.34 H	29	40.1	4.3
3	#5470.00	65.6 PK	74.0	-8.4	3.17 H	25	61.2	4.4
4	#5470.00	48.1 AV	54.0	-5.9	3.17 H	25	43.7	4.4
5	*5500.00	108.5 PK			3.30 H	20	67.2	41.3
6	*5500.00	98.3 AV			3.30 H	20	57.0	41.3
7	11000.00	60.9 PK	74.0	-13.1	2.38 H	252	43.4	17.5
8	11000.00	47.8 AV	54.0	-6.2	2.38 H	252	30.3	17.5
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	5460.00	57.5 PK	74.0	-16.5	3.74 V	48	53.2	4.3
2	5460.00	43.9 AV	54.0	-10.1	3.74 V	48	39.6	4.3
3	#5470.00	60.8 PK	74.0	-13.2	3.49 V	61	56.4	4.4
4	#5470.00	46.9 AV	54.0	-7.1	3.49 V	61	42.5	4.4
5	*5500.00	107.3 PK			3.86 V	46	66.0	41.3
6	*5500.00	96.9 AV			3.86 V	46	55.6	41.3
7	11000.00	59.8 PK	74.0	-14.2	1.64 V	152	42.3	17.5
8	11000.00	47.3 AV	54.0	-6.7	1.64 V	152	29.8	17.5

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	*5580.00	108.9 PK			3.13 H	22	67.5	41.4
2	*5580.00	98.7 AV			3.13 H	22	57.3	41.4
3	11600.00	58.3 PK	74.0	-15.7	1.64 H	205	42.8	15.5
4	11600.00	45.9 AV	54.0	-8.1	1.64 H	205	30.4	15.5
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	*5580.00	107.2 PK			3.86 V	49	65.8	41.4
2	*5580.00	96.6 AV			3.86 V	49	55.2	41.4
3	11600.00	57.3 PK	74.0	-16.7	1.94 V	239	41.8	15.5
4	11600.00	45.2 AV	54.0	-8.8	1.94 V	239	29.7	15.5

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	106.7 PK			3.16 H	37	65.2	41.5
2	*5700.00	96.7 AV			3.16 H	37	55.2	41.5
3	#5725.00	63.1 PK	74.0	-10.9	3.11 H	41	58.2	4.9
4	#5725.00	47.4 AV	54.0	-6.6	3.11 H	41	42.5	4.9
5	11400.00	59.4 PK	74.0	-14.6	3.72 H	182	43.3	16.1
6	11400.00	46.3 AV	54.0	-7.7	3.72 H	182	30.2	16.1
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	104.4 PK			3.91 V	52	62.9	41.5
2	*5700.00	94.3 AV			3.91 V	52	52.8	41.5
3	#5725.00	59.7 PK	74.0	-14.3	3.92 V	35	54.8	4.9
4	#5725.00	45.9 AV	54.0	-8.1	3.92 V	35	41.0	4.9
5	11400.00	58.2 PK	74.0	-15.8	3.51 V	262	42.1	16.1
6	11400.00	45.9 AV	54.0	-8.1	3.51 V	262	29.8	16.1

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5641.60	58.6 PK	68.2	-9.6	1.69 H	164	53.9	4.7
2	*5745.00	107.5 PK			1.69 H	164	65.8	41.7
3	*5745.00	97.0 AV			1.69 H	164	55.3	41.7
4	#5947.20	59.4 PK	68.2	-8.8	1.69 H	164	54.0	5.4
5	11490.00	57.6 PK	74.0	-16.4	1.80 H	196	41.6	16.0
6	11490.00	45.5 AV	54.0	-8.5	1.80 H	196	29.5	16.0
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	#5646.40	58.1 PK	68.2	-10.1	2.35 V	109	53.4	4.7
2	*5745.00	110.9 PK			2.35 V	109	69.2	41.7
3	*5745.00	100.0 AV			2.35 V	109	58.3	41.7
4	#5932.00	60.0 PK	68.2	-8.2	2.35 V	109	54.5	5.5
5	11490.00	58.9 PK	74.0	-15.1	3.42 V	68	42.9	16.0
6	11490.00	44.5 AV	54.0	-9.5	3.42 V	68	28.5	16.0

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5641.60	58.5 PK	68.2	-9.7	1.63 H	166	53.8	4.7
2	*5785.00	108.3 PK			1.63 H	166	66.4	41.9
3	*5785.00	97.5 AV			1.63 H	166	55.6	41.9
4	#5968.80	59.4 PK	68.2	-8.8	1.63 H	166	54.0	5.4
5	11570.00	58.8 PK	74.0	-15.2	2.56 H	197	43.2	15.6
6	11570.00	45.4 AV	54.0	-8.6	2.56 H	197	29.8	15.6
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	#5604.00	58.9 PK	68.2	-9.3	2.33 V	109	54.2	4.7
2	*5785.00	111.0 PK			2.33 V	109	69.1	41.9
3	*5785.00	100.2 AV			2.33 V	109	58.3	41.9
4	#5992.00	59.5 PK	68.2	-8.7	2.33 V	109	54.0	5.5
5	11570.00	58.7 PK	74.0	-15.3	2.53 V	294	43.1	15.6
6	11570.00	45.2 AV	54.0	-8.8	2.53 V	294	29.6	15.6

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5604.00	58.7 PK	68.2	-9.5	1.65 H	167	54.0	4.7
2	*5825.00	108.9 PK			1.65 H	167	66.8	42.1
3	*5825.00	98.3 AV			1.65 H	167	56.2	42.1
4	#5957.60	59.3 PK	68.2	-8.9	1.65 H	167	53.9	5.4
5	11650.00	57.5 PK	74.0	-16.5	1.10 H	119	42.2	15.3
6	11650.00	44.4 AV	54.0	-9.6	1.10 H	119	29.1	15.3
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	#5604.00	59.3 PK	68.2	-8.9	2.37 V	109	54.6	4.7
2	*5825.00	111.1 PK			2.37 V	109	69.0	42.1
3	*5825.00	100.5 AV			2.37 V	109	58.4	42.1
4	#5976.00	60.3 PK	68.2	-7.9	2.37 V	109	54.9	5.4
5	11650.00	57.1 PK	74.0	-16.9	1.60 V	188	41.8	15.3
6	11650.00	44.3 AV	54.0	-9.7	1.60 V	188	29.0	15.3

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	68.4 PK	74.0	-5.6	3.09 H	19	64.4	4.0
2	5150.00	50.9 AV	54.0	-3.1	3.09 H	19	46.9	4.0
3	*5190.00	105.3 PK			3.22 H	15	64.6	40.7
4	*5190.00	95.0 AV			3.22 H	15	54.3	40.7
5	#10380.00	58.1 PK	74.0	-15.9	2.41 H	223	42.7	15.4
6	#10380.00	45.8 AV	54.0	-8.2	2.41 H	223	30.4	15.4
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	67.2 PK	74.0	-6.8	3.72 V	116	63.2	4.0
2	5150.00	49.9 AV	54.0	-4.1	3.72 V	116	45.9	4.0
3	*5190.00	104.9 PK			3.70 V	102	64.2	40.7
4	*5190.00	94.2 AV			3.70 V	102	53.5	40.7
5	#10380.00	57.3 PK	74.0	-16.7	2.71 V	285	41.9	15.4
6	#10380.00	45.2 AV	54.0	-8.8	2.71 V	285	29.8	15.4

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	105.3 PK			3.23 H	6	64.8	40.5
2	*5230.00	95.1 AV			3.23 H	6	54.6	40.5
3	5350.00	55.6 PK	74.0	-18.4	3.31 H	347	51.5	4.1
4	5350.00	42.7 AV	54.0	-11.3	3.31 H	347	38.6	4.1
5	#10460.00	58.0 PK	74.0	-16.0	1.78 H	209	42.6	15.4
6	#10460.00	45.5 AV	54.0	-8.5	1.78 H	209	30.1	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	105.0 PK			3.69 V	105	64.5	40.5
2	*5230.00	94.8 AV			3.69 V	105	54.3	40.5
3	5350.00	54.8 PK	74.0	-19.2	3.76 V	111	50.7	4.1
4	5350.00	42.3 AV	54.0	-11.7	3.76 V	111	38.2	4.1
5	#10460.00	57.8 PK	74.0	-16.2	2.09 V	162	42.4	15.4
6	#10460.00	45.1 AV	54.0	-8.9	2.09 V	162	29.7	15.4

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	1.40 H	176	51.4	4.0
2	5150.00	42.7 AV	54.0	-11.3	1.40 H	176	38.7	4.0
3	*5270.00	104.0 PK			1.45 H	173	63.5	40.5
4	*5270.00	93.5 AV			1.45 H	173	53.0	40.5
5	#10540.00	57.4 PK	74.0	-16.6	2.25 H	96	41.8	15.6
6	#10540.00	44.3 AV	54.0	-9.7	2.25 H	96	28.7	15.6
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	45.4 PK	74.0	-28.6	2.01 V	356	41.4	4.0
2	5150.00	42.6 AV	54.0	-11.4	2.01 V	356	38.6	4.0
3	*5270.00	105.4 PK			2.30 V	170	64.9	40.5
4	*5270.00	93.3 AV			2.30 V	170	52.8	40.5
5	#10540.00	57.5 PK	74.0	-16.5	2.18 V	164	41.9	15.6
6	#10540.00	44.2 AV	54.0	-9.8	2.18 V	164	28.6	15.6

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	101.1 PK			1.50 H	177	60.6	40.5
2	*5310.00	90.2 AV			1.50 H	177	49.7	40.5
3	5350.00	72.7 PK	74.0	-1.3	1.58 H	188	68.6	4.1
4	5350.00	50.5 AV	54.0	-3.5	1.58 H	188	46.4	4.1
5	10620.00	58.0 PK	74.0	-16.0	3.08 H	294	42.2	15.8
6	10620.00	44.1 AV	54.0	-9.9	3.08 H	294	28.3	15.8
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	103.8 PK			2.04 V	169	63.3	40.5
2	*5310.00	91.9 AV			2.04 V	169	51.4	40.5
3	5350.00	73.3 PK	74.0	-0.7	2.29 V	173	69.2	4.1
4	5350.00	50.9 AV	54.0	-3.1	2.29 V	173	46.8	4.1
5	10620.00	56.6 PK	74.0	-17.4	2.40 V	119	40.8	15.8
6	10620.00	43.8 AV	54.0	-10.2	2.40 V	119	28.0	15.8

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 102	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	5460.00	59.8 PK	74.0	-14.2	3.46 H	32	55.5	4.3
2	5460.00	46.8 AV	54.0	-7.2	3.46 H	32	42.5	4.3
3	#5470.00	70.6 PK	74.0	-3.4	3.40 H	21	66.2	4.4
4	#5470.00	52.3 AV	54.0	-1.7	3.40 H	21	47.9	4.4
5	*5510.00	103.2 PK			3.45 H	22	61.9	41.3
6	*5510.00	92.9 AV			3.45 H	22	51.6	41.3
7	11020.00	60.6 PK	74.0	-13.4	3.16 H	207	43.4	17.2
8	11020.00	47.6 AV	54.0	-6.4	3.16 H	207	30.4	17.2
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	5460.00	58.8 PK	74.0	-15.2	3.86 V	70	54.5	4.3
2	5460.00	46.0 AV	54.0	-8.0	3.86 V	70	41.7	4.3
3	#5470.00	69.8 PK	74.0	-4.2	3.75 V	54	65.4	4.4
4	#5470.00	51.6 AV	54.0	-2.4	3.75 V	54	47.2	4.4
5	*5510.00	102.8 PK			3.67 V	29	61.5	41.3
6	*5510.00	91.6 AV			3.67 V	29	50.3	41.3
7	11020.00	59.6 PK	74.0	-14.4	1.43 V	256	42.4	17.2
8	11020.00	47.0 AV	54.0	-7.0	1.43 V	256	29.8	17.2

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	*5550.00	105.8 PK			3.13 H	22	64.4	41.4
2	*5550.00	94.9 AV			3.13 H	22	53.5	41.4
3	11100.00	58.6 PK	74.0	-15.4	3.04 H	152	42.4	16.2
4	11100.00	46.0 AV	54.0	-8.0	3.04 H	152	29.8	16.2
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	*5550.00	104.7 PK			3.95 V	40	63.3	41.4
2	*5550.00	94.3 AV			3.95 V	40	52.9	41.4
3	11100.00	57.8 PK	74.0	-16.2	1.45 V	247	41.6	16.2
4	11100.00	45.7 AV	54.0	-8.3	1.45 V	247	29.5	16.2

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	104.5 PK			3.27 H	36	63.0	41.5
2	*5670.00	93.9 AV			3.27 H	36	52.4	41.5
3	#5725.00	57.1 PK	74.0	-16.9	3.35 H	42	52.2	4.9
4	#5725.00	44.1 AV	54.0	-9.9	3.35 H	42	39.2	4.9
5	11340.00	59.5 PK	74.0	-14.5	1.16 H	253	43.1	16.4
6	11340.00	46.5 AV	54.0	-7.5	1.16 H	253	30.1	16.4
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	102.1 PK			3.99 V	40	60.6	41.5
2	*5670.00	91.7 AV			3.99 V	40	50.2	41.5
3	#5725.00	56.7 PK	74.0	-17.3	3.84 V	34	51.8	4.9
4	#5725.00	43.5 AV	54.0	-10.5	3.84 V	34	38.6	4.9
5	11340.00	58.5 PK	74.0	-15.5	2.37 V	146	42.1	16.4
6	11340.00	46.0 AV	54.0	-8.0	2.37 V	146	29.6	16.4

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	#5648.00	58.5 PK	68.2	-9.7	1.67 H	205	53.8	4.7
2	*5755.00	103.7 PK			1.67 H	205	61.9	41.8
3	*5755.00	91.9 AV			1.67 H	205	50.1	41.8
4	#5978.40	59.6 PK	68.2	-8.6	1.67 H	205	54.2	5.4
5	11510.00	58.2 PK	74.0	-15.8	2.83 H	164	42.3	15.9
6	11510.00	45.3 AV	54.0	-8.7	2.83 H	164	29.4	15.9
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	#5605.60	58.2 PK	68.2	-10.0	2.32 V	109	53.5	4.7
2	*5755.00	107.3 PK			2.32 V	109	65.5	41.8
3	*5755.00	96.3 AV			2.32 V	109	54.5	41.8
4	#5992.00	58.7 PK	68.2	-9.5	2.32 V	109	53.2	5.5
5	11510.00	58.5 PK	74.0	-15.5	1.66 V	184	42.6	15.9
6	11510.00	45.2 AV	54.0	-8.8	1.66 V	184	29.3	15.9

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	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5614.40	58.4 PK	68.2	-9.8	1.64 H	206	53.7	4.7
2	*5795.00	103.2 PK			1.64 H	206	61.2	42.0
3	*5795.00	92.1 AV			1.64 H	206	50.1	42.0
4	#5967.20	59.2 PK	68.2	-9.0	1.64 H	206	53.8	5.4
5	11590.00	57.7 PK	74.0	-16.3	2.84 H	193	42.2	15.5
6	11590.00	45.1 AV	54.0	-8.9	2.84 H	193	29.6	15.5
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	#5600.80	58.1 PK	68.2	-10.1	2.33 V	109	53.4	4.7
2	*5795.00	107.0 PK			2.33 V	109	65.0	42.0
3	*5795.00	96.3 AV			2.33 V	109	54.3	42.0
4	#5984.80	59.2 PK	68.2	-9.0	2.33 V	109	53.7	5.5
5	11590.00	57.8 PK	74.0	-16.2	1.82 V	164	42.3	15.5
6	11590.00	45.2 AV	54.0	-8.8	1.82 V	164	29.7	15.5

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.

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CHANNEL	TX Channel 42	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	55.7 PK	74.0	-18.3	3.39 H	17	51.7	4.0
2	5150.00	43.8 AV	54.0	-10.2	3.39 H	17	39.8	4.0
3	*5210.00	98.9 PK			3.56 H	12	58.3	40.6
4	*5210.00	83.5 AV			3.56 H	12	42.9	40.6
5	5350.00	54.8 PK	74.0	-19.2	3.67 H	15	50.7	4.1
6	5350.00	42.5 AV	54.0	-11.5	3.67 H	15	38.4	4.1
7	#10420.00	58.4 PK	74.0	-15.6	1.76 H	317	43.1	15.3
8	#10420.00	45.5 AV	54.0	-8.5	1.76 H	317	30.2	15.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.1 PK	74.0	-17.9	3.73 V	142	52.1	4.0
2	5150.00	43.5 AV	54.0	-10.5	3.73 V	142	39.5	4.0
3	*5210.00	98.1 PK			3.70 V	107	57.5	40.6
4	*5210.00	83.4 AV			3.70 V	107	42.8	40.6
5	5350.00	54.9 PK	74.0	-19.1	3.82 V	120	50.8	4.1
6	5350.00	42.4 AV	54.0	-11.6	3.82 V	120	38.3	4.1
7	#10420.00	58.1 PK	74.0	-15.9	2.16 V	301	42.8	15.3
8	#10420.00	45.2 AV	54.0	-8.8	2.16 V	301	29.9	15.3

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 58	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	55.6 PK	74.0	-18.4	1.42 H	174	51.6	4.0
2	5150.00	42.8 AV	54.0	-11.2	1.42 H	174	38.8	4.0
3	*5290.00	95.5 PK			1.46 H	173	55.0	40.5
4	*5290.00	81.1 AV			1.46 H	173	40.6	40.5
5	5350.00	56.7 PK	74.0	-17.3	1.50 H	177	52.6	4.1
6	5350.00	43.0 AV	54.0	-11.0	1.50 H	177	38.9	4.1
7	#10580.00	57.9 PK	74.0	-16.1	2.94 H	193	42.2	15.7
8	#10580.00	44.3 AV	54.0	-9.7	2.94 H	193	28.6	15.7
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	55.7 PK	74.0	-18.3	2.14 V	165	51.7	4.0
2	5150.00	42.8 AV	54.0	-11.2	2.14 V	165	38.8	4.0
3	*5290.00	96.8 PK			2.18 V	171	56.3	40.5
4	*5290.00	81.7 AV			2.18 V	171	41.2	40.5
5	5350.00	58.8 PK	74.0	-15.2	2.24 V	178	54.7	4.1
6	5350.00	43.3 AV	54.0	-10.7	2.24 V	178	39.2	4.1
7	#10580.00	57.2 PK	74.0	-16.8	2.68 V	24	41.5	15.7
8	#10580.00	44.4 AV	54.0	-9.6	2.68 V	24	28.7	15.7

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 106	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	5460.00	56.7 PK	74.0	-17.3	3.24 H	32	52.4	4.3
2	5460.00	44.1 AV	54.0	-9.9	3.24 H	32	39.8	4.3
3	#5470.00	56.9 PK	74.0	-17.1	3.11 H	33	52.5	4.4
4	#5470.00	43.1 AV	54.0	-10.9	3.11 H	33	38.7	4.4
5	*5530.00	96.5 PK			3.19 H	24	55.2	41.3
6	*5530.00	80.4 AV			3.19 H	24	39.1	41.3
7	#5725.00	57.4 PK	74.0	-16.6	3.34 H	42	52.5	4.9
8	#5725.00	44.2 AV	54.0	-9.8	3.34 H	42	39.3	4.9
9	11060.00	58.5 PK	74.0	-15.5	2.26 H	191	41.8	16.7
10	11060.00	46.3 AV	54.0	-7.7	2.26 H	191	29.6	16.7
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	5460.00	56.9 PK	74.0	-17.1	3.82 V	43	52.6	4.3
2	5460.00	44.3 AV	54.0	-9.7	3.82 V	43	40.0	4.3
3	#5470.00	57.2 PK	74.0	-16.8	3.65 V	39	52.8	4.4
4	#5470.00	44.2 AV	54.0	-9.8	3.65 V	39	39.8	4.4
5	*5530.00	96.9 PK			3.95 V	47	55.6	41.3
6	*5530.00	81.1 AV			3.95 V	47	39.8	41.3
7	#5725.00	57.3 PK	74.0	-16.7	3.87 V	64	52.4	4.9
8	#5725.00	44.3 AV	54.0	-9.7	3.87 V	64	39.4	4.9
9	11060.00	58.5 PK	74.0	-15.5	3.01 V	219	41.8	16.7
10	11060.00	46.4 AV	54.0	-7.6	3.01 V	219	29.7	16.7

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 155	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz	FUNCTION	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	#5603.20	59.7 PK	68.2	-8.5	1.63 H	206	55.0	4.7
2	*5775.00	96.1 PK			1.63 H	206	54.2	41.9
3	*5775.00	81.7 AV			1.63 H	206	39.8	41.9
4	#5987.20	59.4 PK	68.2	-8.8	1.63 H	206	53.9	5.5
5	11550.00	58.7 PK	74.0	-15.3	1.18 H	347	42.9	15.8
6	11550.00	45.4 AV	54.0	-8.6	1.18 H	347	29.6	15.8
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	#5608.80	58.3 PK	68.2	-9.9	2.33 V	109	53.6	4.7
2	*5775.00	100.5 PK			2.33 V	109	58.6	41.9
3	*5775.00	85.0 AV			2.33 V	109	43.1	41.9
4	#5950.40	59.0 PK	68.2	-9.2	2.33 V	109	53.6	5.4
5	11550.00	58.4 PK	74.0	-15.6	3.85 V	119	42.6	15.8
6	11550.00	45.4 AV	54.0	-8.6	3.85 V	119	29.6	15.8

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 Worst-Case Data

Test Mode A

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	60.07	28.5 QP	40.0	-11.5	1.50 H	238	42.6	-14.1
2	166.77	27.1 QP	43.5	-16.4	2.00 H	101	40.8	-13.7
3	254.07	38.3 QP	46.0	-7.7	1.50 H	131	52.3	-14.0
4	597.45	24.4 QP	46.0	-21.6	1.25 H	336	32.0	-7.6
5	746.83	36.7 QP	46.0	-9.3	1.00 H	312	41.8	-5.1
6	944.71	27.5 QP	46.0	-18.5	1.00 H	14	29.6	-2.1
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	34.85	36.3 QP	40.0	-3.7	1.50 V	192	51.4	-15.1
2	153.19	25.2 QP	43.5	-18.3	1.50 V	187	38.6	-13.4
3	245.34	31.8 QP	46.0	-14.2	1.00 V	162	46.2	-14.4
4	447.10	24.4 QP	46.0	-21.6	1.25 V	256	34.4	-10.0
5	770.11	26.2 QP	46.0	-19.8	1.25 V	216	30.8	-4.6
6	951.50	28.4 QP	46.0	-17.6	1.00 V	304	30.2	-1.8

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

Test Mode B

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.97	35.2 QP	40.0	-4.8	1.25 H	215	50.7	-15.5
2	157.07	27.5 QP	43.5	-16.0	1.00 H	90	40.8	-13.3
3	251.16	39.0 QP	46.0	-7.0	1.50 H	120	53.2	-14.2
4	599.39	26.1 QP	46.0	-19.9	1.25 H	60	33.6	-7.5
5	745.86	36.5 QP	46.0	-9.5	1.50 H	318	41.6	-5.1
6	935.01	31.0 QP	46.0	-15.0	2.00 H	353	33.3	-2.3
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	89.17	32.9 QP	43.5	-10.6	1.25 V	126	52.0	-19.1
2	242.43	31.7 QP	46.0	-14.3	1.50 V	156	46.2	-14.5
3	447.10	24.8 QP	46.0	-21.2	1.00 V	255	34.8	-10.0
4	644.01	22.5 QP	46.0	-23.5	1.25 V	142	29.4	-6.9
5	770.11	26.4 QP	46.0	-19.6	2.00 V	310	31.0	-4.6
6	939.86	31.7 QP	46.0	-14.3	1.50 V	245	33.9	-2.2

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 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 23, 2017	Nov. 22, 2018
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2017	Sep. 04, 2018
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 15, 2017	Aug. 14, 2018
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

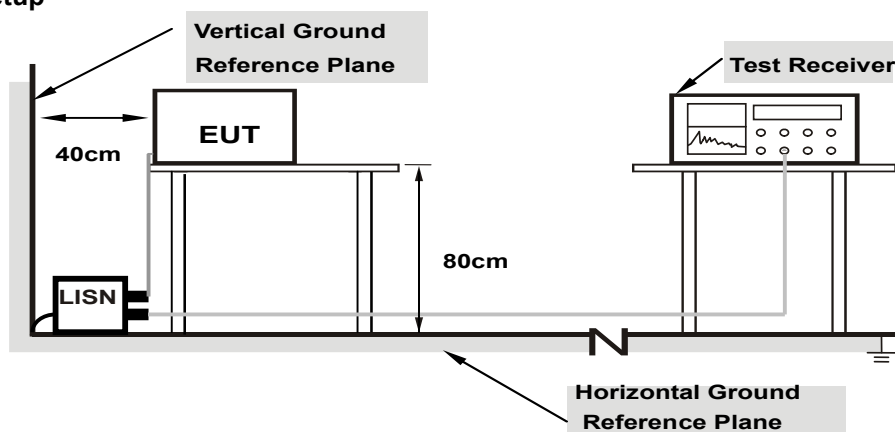
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

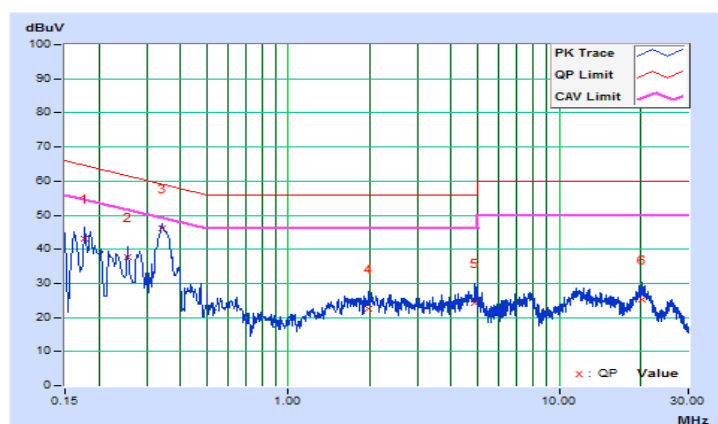
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17737	10.16	33.05	18.15	43.21	28.31	64.61	54.61	-21.40	-26.30
2	0.25557	10.17	27.45	19.39	37.62	29.56	61.57	51.57	-23.95	-22.01
3	0.34159	10.19	35.88	28.74	46.07	38.93	59.16	49.16	-13.09	-10.23
4	1.98770	10.24	12.25	7.95	22.49	18.19	56.00	46.00	-33.51	-27.81
5	4.87328	10.39	13.85	6.38	24.24	16.77	56.00	46.00	-31.76	-29.23
6	20.13792	11.25	13.95	6.45	25.20	17.70	60.00	50.00	-34.80	-32.30

REMARKS:

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

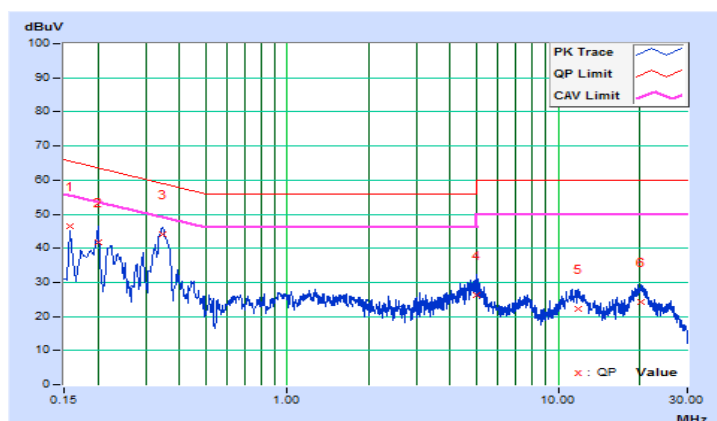


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	10.15	36.24	22.91	46.39	33.06	65.58	55.58	-19.19	-22.52
2	0.20031	10.16	31.52	19.20	41.68	29.36	63.60	53.60	-21.92	-24.24
3	0.34560	10.19	34.06	25.76	44.25	35.95	59.07	49.07	-14.82	-13.12
4	4.97103	10.38	16.03	7.86	26.41	18.24	56.00	46.00	-29.59	-27.76
5	11.91519	10.66	11.62	5.52	22.28	16.18	60.00	50.00	-37.72	-33.82
6	20.23567	11.02	13.07	5.91	24.09	16.93	60.00	50.00	-35.91	-33.07

REMARKS:

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

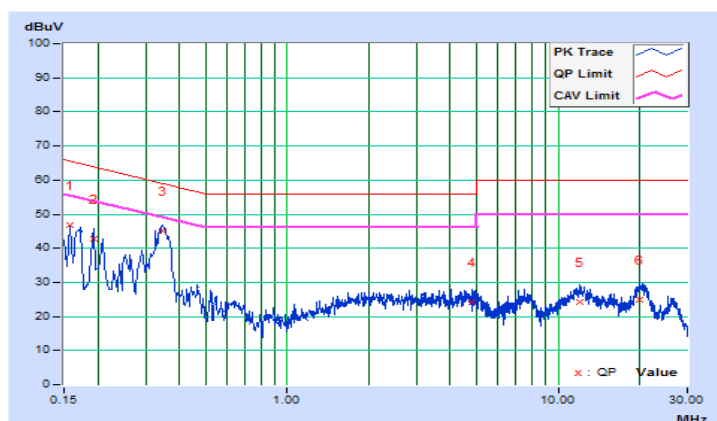


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15782	10.16	36.52	22.39	46.68	32.55	65.58	55.58	-18.90	-23.03
2	0.19301	10.16	32.59	20.51	42.75	30.67	63.91	53.91	-21.16	-23.24
3	0.34560	10.19	34.92	27.00	45.11	37.19	59.07	49.07	-13.96	-11.88
4	4.83418	10.39	13.92	6.69	24.31	17.08	56.00	46.00	-31.69	-28.92
5	11.97384	10.77	13.38	7.82	24.15	18.59	60.00	50.00	-35.85	-31.41
6	19.93460	11.25	13.73	6.22	24.98	17.47	60.00	50.00	-35.02	-32.53

REMARKS:

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

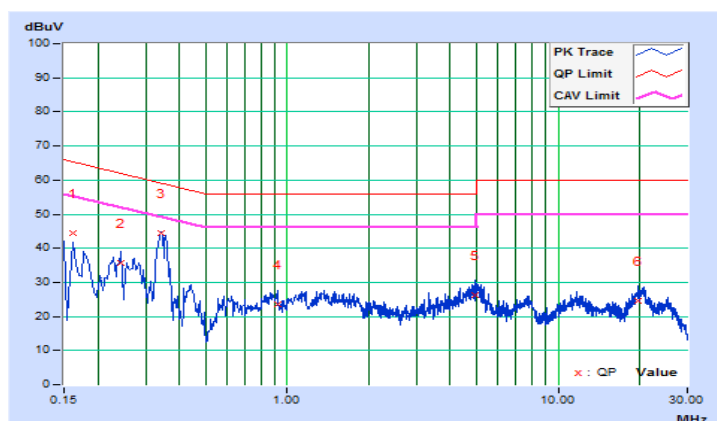


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16181	10.15	34.37	21.86	44.52	32.01	65.37	55.37	-20.85	-23.36
2	0.24384	10.17	25.64	15.62	35.81	25.79	61.96	51.96	-26.15	-26.17
3	0.34198	10.19	34.29	27.22	44.48	37.41	59.16	49.16	-14.68	-11.75
4	0.92027	10.20	13.22	8.63	23.42	18.83	56.00	46.00	-32.58	-27.17
5	4.91238	10.38	15.94	8.37	26.32	18.75	56.00	46.00	-29.68	-27.25
6	19.81339	11.01	13.55	6.95	24.56	17.96	60.00	50.00	-35.44	-32.04

REMARKS:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 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} ;

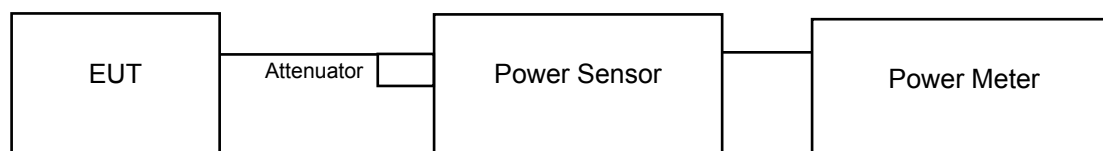
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

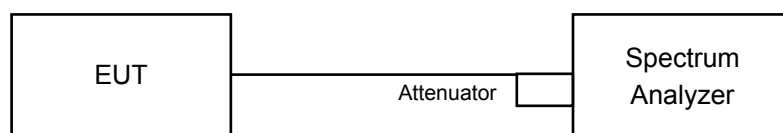
4.3.2 Test Setup

For Power Output

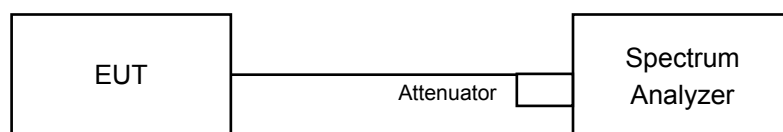
802.11a, 802.11n (HT20), 802.11n (HT40)



802.11ac (VHT80)



For 26dB and Occupied Bandwidth



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

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

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

For 802.11ac (VHT80)

- Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- Set sweep trigger to "free run".
- Set RBW = 1 MHz
- Set VBW $\geq$ 3 MHz
- Number of points in sweep $\geq$ 2 Span / RBW
- Sweep time $\leq$ (number of points in sweep) * T
- Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- Detector = RMS
- Trace mode = max hold
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

For 26dB Bandwidth

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- 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%.

For Occupied Bandwidth

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

802.11a

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	96.828	19.86	24.00	Pass
40	5200	90.365	19.56	24.00	Pass
48	5240	88.716	19.48	24.00	Pass
52	5260	101.625	20.07	24.00	Pass
60	5300	102.094	20.09	24.00	Pass
64	5320	108.143	20.34	24.00	Pass
100	5500	102.329	20.10	24.00	Pass
116	5580	107.895	20.33	24.00	Pass
140	5700	114.288	20.58	24.00	Pass
149	5745	111.173	20.46	30.00	Pass
157	5785	107.895	20.33	30.00	Pass
165	5825	104.472	20.19	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(33.78) = 26.29\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(30.43) = 25.83\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(31.81) = 26.03\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(32.68) = 26.14\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(33.85) = 26.30\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(34.12) = 26.33\text{ dBm} > 24\text{dBm}$

802.11n (HT20)

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	89.125	19.50	24.00	Pass
40	5200	90.365	19.56	24.00	Pass
48	5240	101.859	20.08	24.00	Pass
52	5260	100.925	20.04	24.00	Pass
60	5300	104.472	20.19	24.00	Pass
64	5320	101.391	20.06	24.00	Pass
100	5500	103.039	20.13	24.00	Pass
116	5580	107.895	20.33	24.00	Pass
140	5700	117.761	20.71	24.00	Pass
149	5745	110.408	20.43	30.00	Pass
157	5785	105.682	20.24	30.00	Pass
165	5825	100.231	20.01	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(36.17) = 26.58\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(33.30) = 26.22\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(31.98) = 26.05\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(30.55) = 25.85\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(33.41) = 26.24\text{ dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(32.69) = 26.14\text{ dBm} > 24\text{dBm}$

802.11n (HT40)

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	36.898	15.67	24.00	Pass
46	5230	66.222	18.21	24.00	Pass
54	5270	66.988	18.26	24.00	Pass
62	5310	39.994	16.02	24.00	Pass
102	5510	50.582	17.04	24.00	Pass
110	5550	80.910	19.08	24.00	Pass
134	5670	77.804	18.91	24.00	Pass
151	5755	77.625	18.90	30.00	Pass
159	5795	67.453	18.29	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(58.19) = 28.65\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(45.12) = 27.54\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(46.03) = 27.63\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(50.32) = 28.02\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(56.49) = 28.52\text{ dBm} > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	32.211	15.08	24.00	Pass
58	5290	28.774	14.59	24.00	Pass
106	5530	30.130	14.79	24.00	Pass
155	5775	34.594	15.39	30.00	Pass

Note:

For U-NII-2A, U-NII-2C Band:

1. $11\text{dBm} + 10\log(85.01) = 30.29\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(84.12) = 30.25\text{ dBm} > 24\text{dBm}$

26dB Bandwidth:

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
36	5180	31.54
40	5200	28.02
48	5240	34.03
52	5260	33.78
60	5300	30.43
64	5320	31.81
100	5500	32.68
116	5580	33.85
140	5700	34.12

802.11n (HT20)

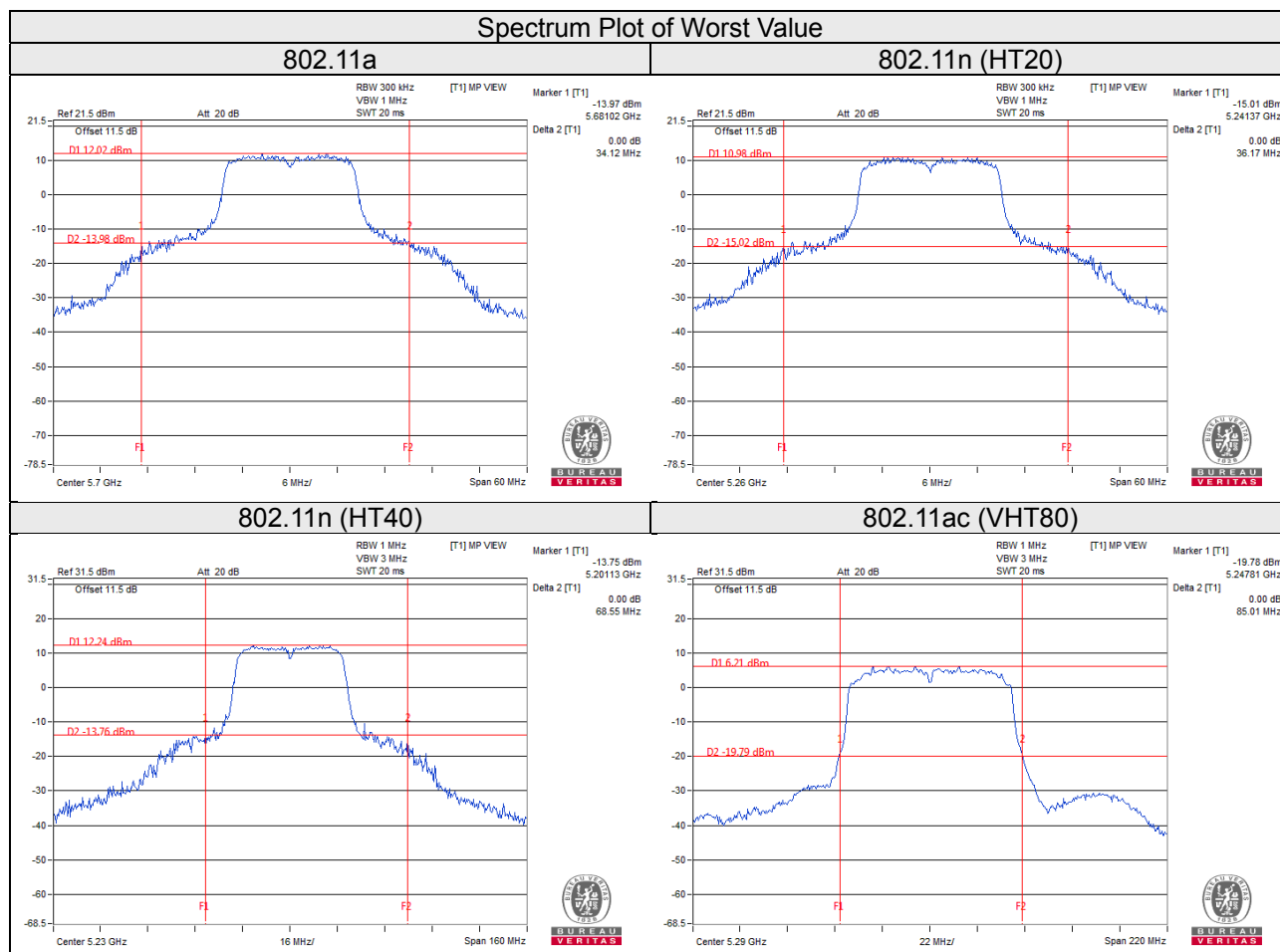
Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
36	5180	34.13
40	5200	30.82
48	5240	31.85
52	5260	36.17
60	5300	33.30
64	5320	31.98
100	5500	30.55
116	5580	33.41
140	5700	32.69

802.11n (HT40)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
38	5190	45.15
46	5230	68.55
54	5270	58.19
62	5310	45.12
102	5510	46.03
110	5550	50.32
134	5670	56.49

802.11ac (VHT80)

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
42	5210	84.69
58	5290	85.01
106	5530	84.12



EUT Maximum Conducted Power

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	108.143	20.34
5470~5725	114.288	20.58

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	104.472	20.19
5470~5725	117.761	20.71

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	66.988	18.26
5470~5725	80.910	19.08

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

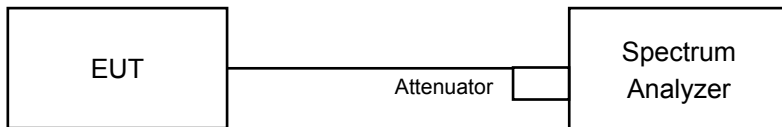
802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	28.774	14.59
5470~5725	30.130	14.79

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.4.4 Test Result

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.92
40	5200	17.04
48	5240	17.04
52	5260	17.16
60	5300	17.16
64	5320	17.16
100	5500	17.04
116	5580	17.16
140	5700	17.16
149	5745	17.16
157	5785	17.04
165	5825	16.92

802.11n (HT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	18.00
40	5200	18.00
48	5240	18.00
52	5260	18.00
60	5300	17.04
64	5320	18.00
100	5500	18.00
116	5580	17.88
140	5700	18.12
149	5745	17.88
157	5785	18.00
165	5825	17.88

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	5190	36.48
46	5230	36.84
54	5270	36.72
62	5310	36.60
102	5510	36.48
110	5550	36.84
134	5670	36.84
151	5755	36.84
159	5795	36.96

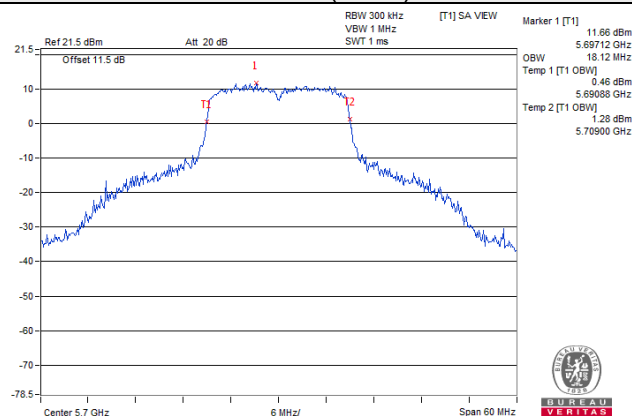
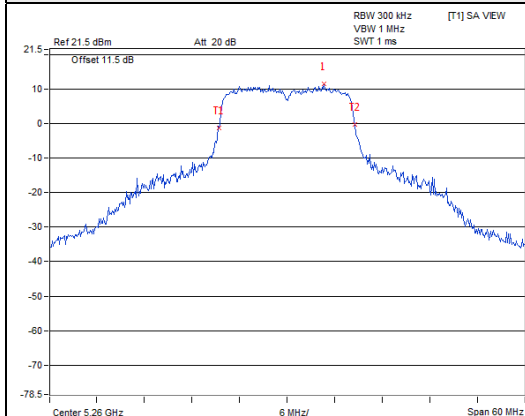
802.11ac (VHT80)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
42	5210	74.88
58	5290	74.88
106	5530	74.64
155	5775	74.64

Spectrum Plot of Worst Value

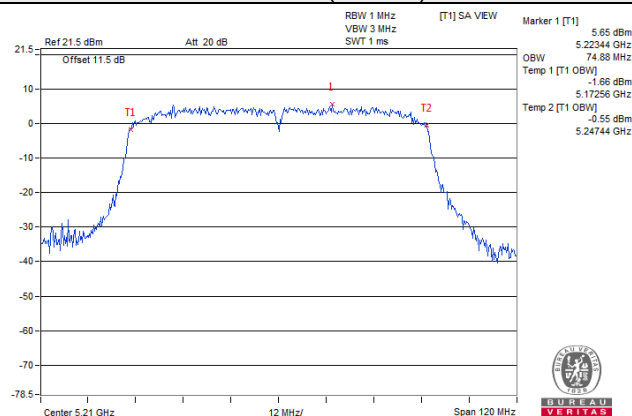
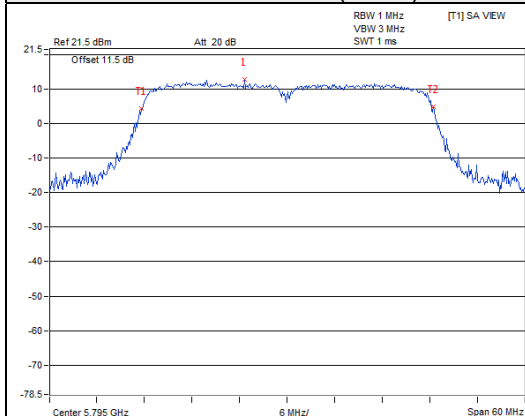
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)

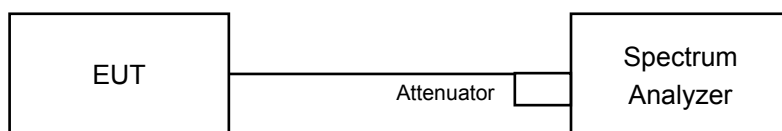


4.5 Peak Power Spectral Density Measurement

4.5.1 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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

For U-NII-1, U-NII-2A, U-NII-2C band:

Duty cycle of test signal is $\geq 98\%$

Using method SA-1

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

Duty cycle of test signal is $< 98\%$

Using method SA-2

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

For U-NII-3 band:

Duty cycle of test signal is $\geq 98\%$

Using method SA-1

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS.
- 3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10\log(500 \text{ kHz} / 300 \text{ kHz})$.
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) Record the max value.

Duty cycle of test signal is $< 98\%$

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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as 4.3.6.

4.5.7 Test Results

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

802.11a

Chan.	Freq. (MHz)	PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
36	5180	6.73	11	Pass
40	5200	6.68	11	Pass
48	5240	6.82	11	Pass
52	5260	6.75	11	Pass
60	5300	6.74	11	Pass
64	5320	6.88	11	Pass
100	5500	7.07	11	Pass
116	5580	7.25	11	Pass
140	5700	7.38	11	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
36	5180	6.39	11	Pass
40	5200	6.45	11	Pass
48	5240	6.42	11	Pass
52	5260	6.48	11	Pass
60	5300	6.85	11	Pass
64	5320	6.59	11	Pass
100	5500	6.82	11	Pass
116	5580	6.99	11	Pass
140	5700	7.19	11	Pass

802.11n (HT40)

Chan.	Freq. (MHz)	PSD without Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
38	5190	-1.20	0.10	-1.10	11	Pass
46	5230	1.61	0.10	1.71	11	Pass
54	5270	1.62	0.10	1.72	11	Pass
62	5310	-0.38	0.10	-0.28	11	Pass
102	5510	-0.49	0.10	-0.39	11	Pass
110	5550	2.04	0.10	2.14	11	Pass
134	5670	2.33	0.10	2.43	11	Pass

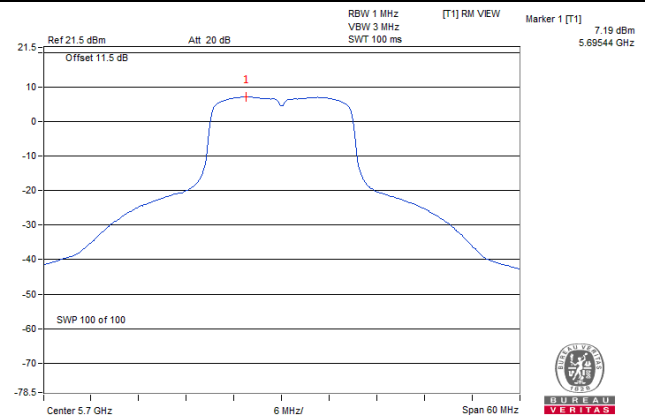
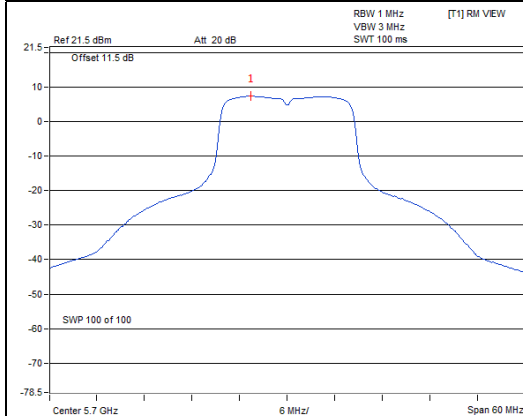
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD without Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
42	5210	-5.01	0.17	-4.84	11	Pass
58	5290	-4.26	0.17	-4.09	11	Pass
106	5530	-4.17	0.17	-4.00	11	Pass

Spectrum Plot of Worst Value

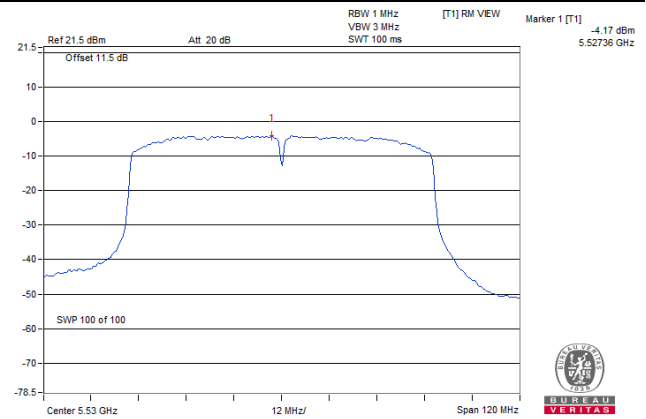
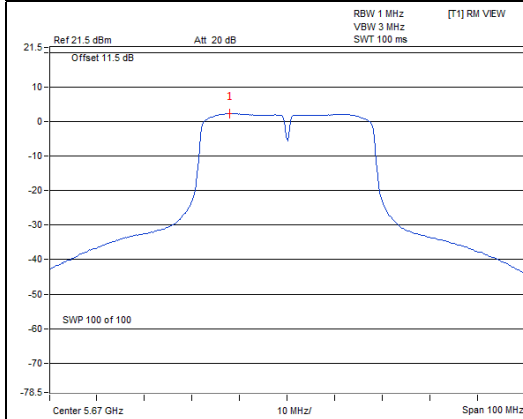
802.11a / CH 140

802.11n (HT20) / CH 140



802.11n (HT40) / CH 134

802.11ac (VHT80) / CH 106



For U-NII-3 band:

802.11a

Chan.	Freq. (MHz)	PSD		Limit (dBm /500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)		
149	5745	-1.15	1.07	30.00	Pass
157	5785	-1.36	0.86	30.00	Pass
165	5825	-1.39	0.83	30.00	Pass

802.11n (HT20)

Chan.	Freq. (MHz)	PSD		Limit (dBm /500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)		
149	5745	-1.43	0.79	30.00	Pass
157	5785	-1.60	0.62	30.00	Pass
165	5825	-1.70	0.52	30.00	Pass

802.11n (HT40)

Chan.	Freq. (MHz)	PSD		Duty factor	Total PSD (dBm /500kHz)	Limit (dBm /500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
151	5755	-6.67	-4.45	0.10	-4.35	30.00	Pass
159	5795	-6.87	-4.65	0.10	-4.55	30.00	Pass

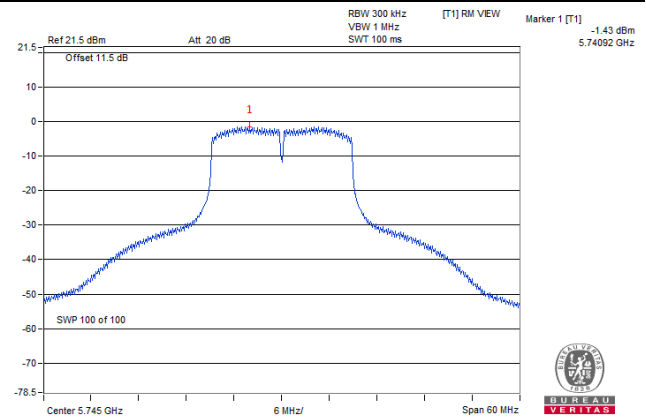
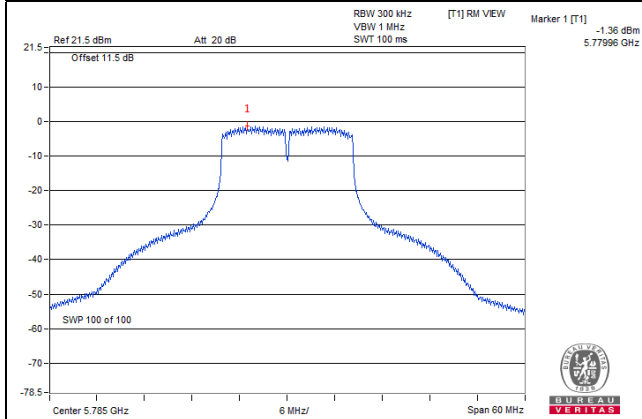
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD		Duty factor	Total PSD (dBm /500kHz)	Limit (dBm /500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
151	5755	-12.65	-10.43	0.17	-10.26	30.00	Pass

Spectrum Plot of Worst Value

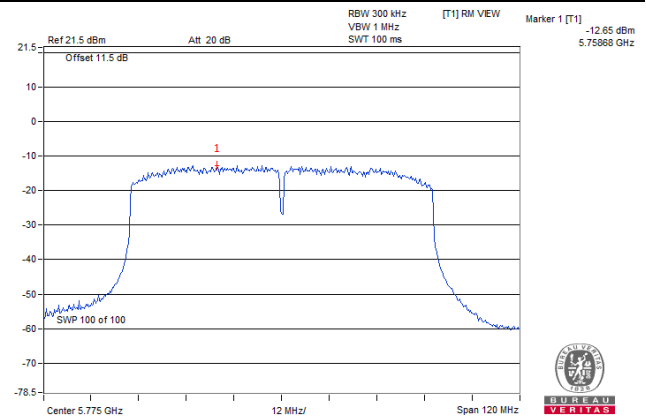
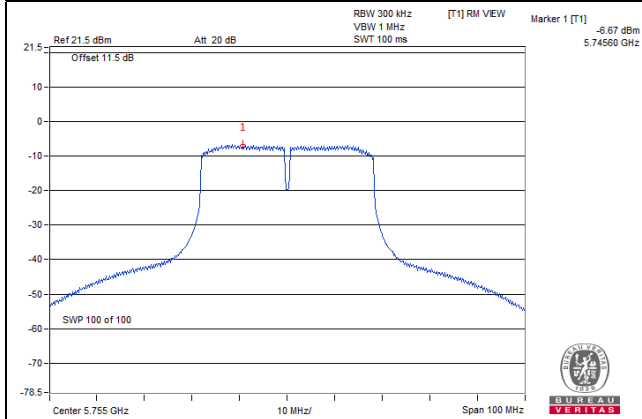
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)

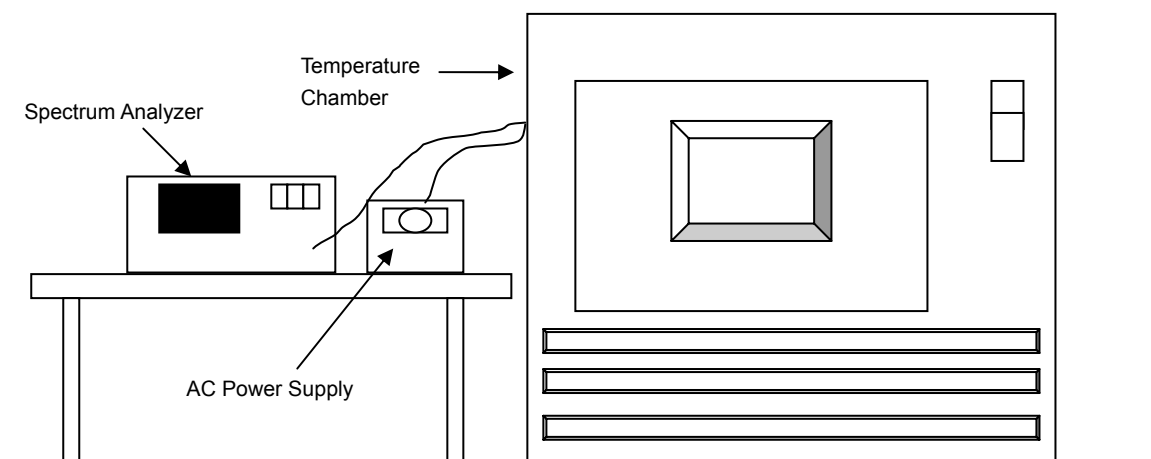


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

- 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.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 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 (%)
40	120	5180.0232	0.00045	5180.0254	0.00049	5180.0232	0.00045	5180.0213	0.00041
30	120	5179.9913	-0.00017	5179.9923	-0.00015	5179.9923	-0.00015	5179.9947	-0.00010
20	120	5179.9945	-0.00011	5179.9943	-0.00011	5179.9925	-0.00014	5179.9921	-0.00015
10	120	5179.9872	-0.00025	5179.9873	-0.00025	5179.9882	-0.00023	5179.9857	-0.00028
0	120	5180.0015	0.00003	5180.0005	0.00001	5179.9996	-0.00001	5179.9982	-0.00003

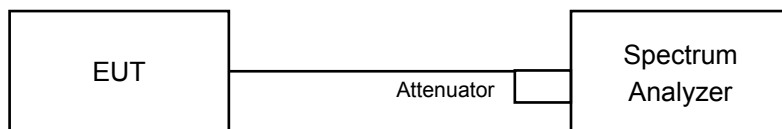
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5179.9939	-0.00012	5179.9944	-0.00011	5179.9919	-0.00016	5179.9915	-0.00016
	120	5179.9945	-0.00011	5179.9943	-0.00011	5179.9925	-0.00014	5179.9921	-0.00015
	102	5179.9941	-0.00011	5179.9953	-0.00009	5179.9916	-0.00016	5179.9922	-0.00015

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
149	5745	16.32	0.5	Pass
157	5785	16.37	0.5	Pass
165	5825	16.12	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
149	5745	16.56	0.5	Pass
157	5785	16.96	0.5	Pass
165	5825	16.67	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
151	5755	35.36	0.5	Pass
159	5795	35.35	0.5	Pass

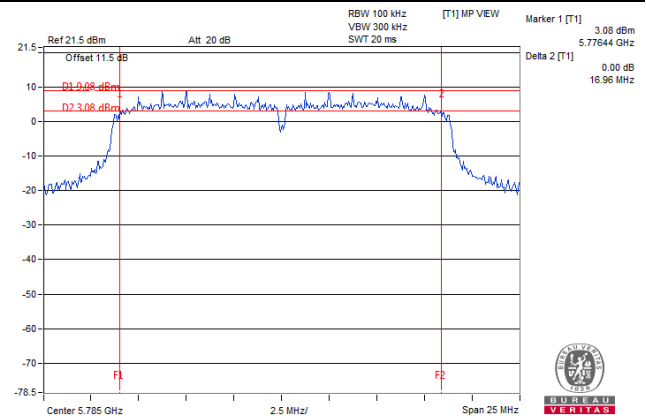
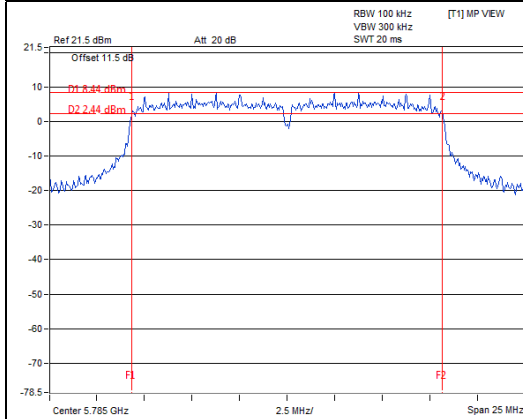
802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
155	5775	75.29	0.5	Pass

Spectrum Plot of Worst Value

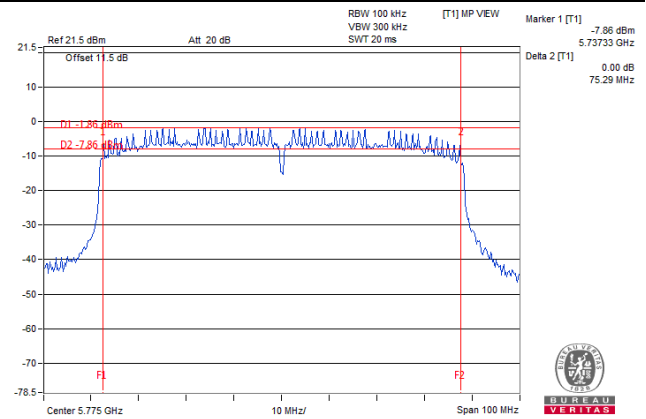
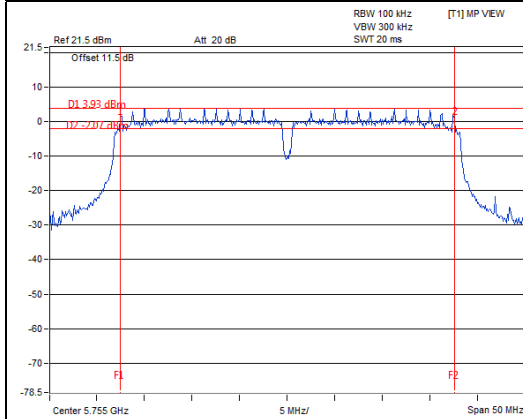
802.11a

802.11n (HT20)



802.11n (HT40)

802.11ac (VHT80)



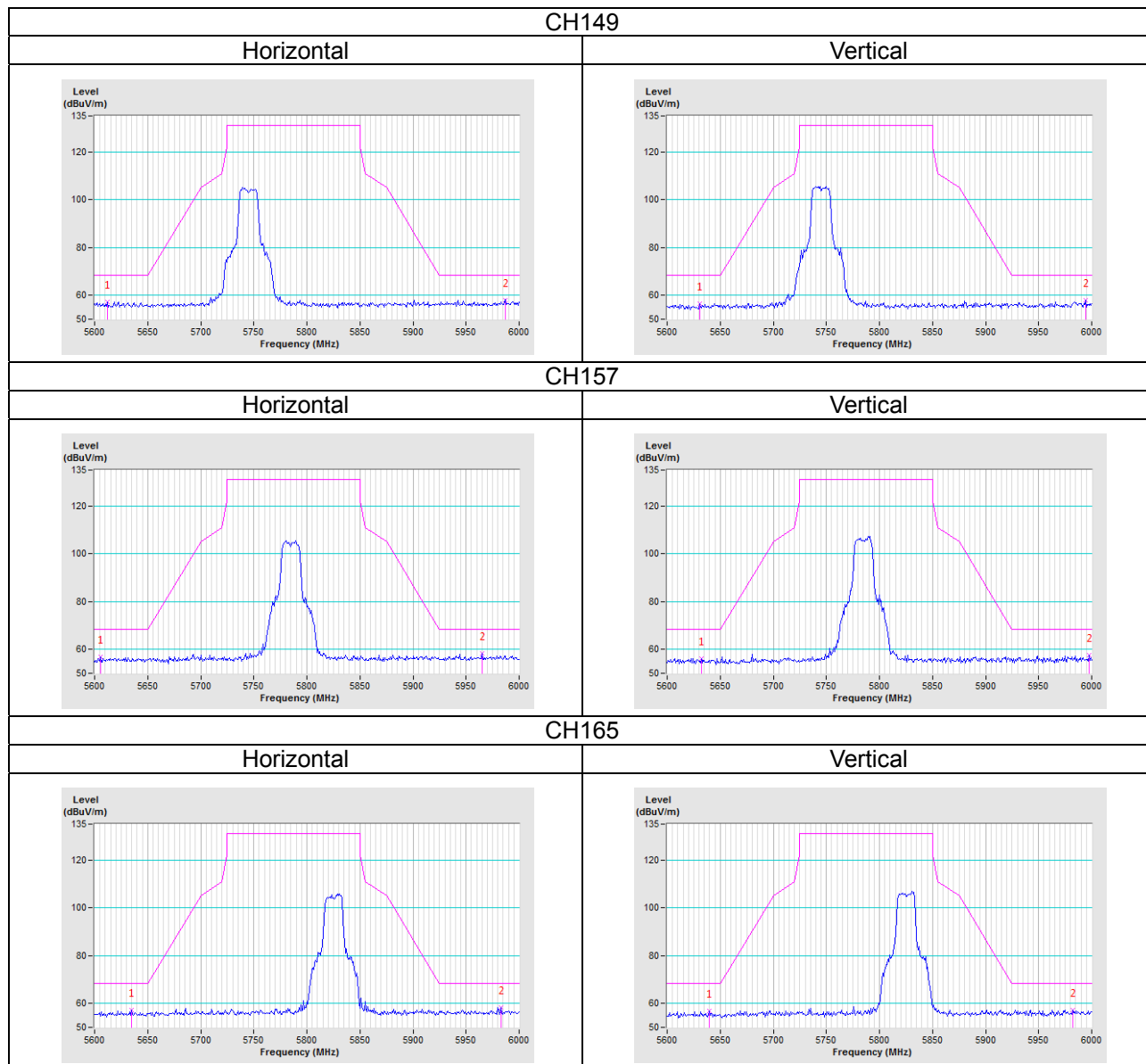
5 Pictures of Test Arrangements

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

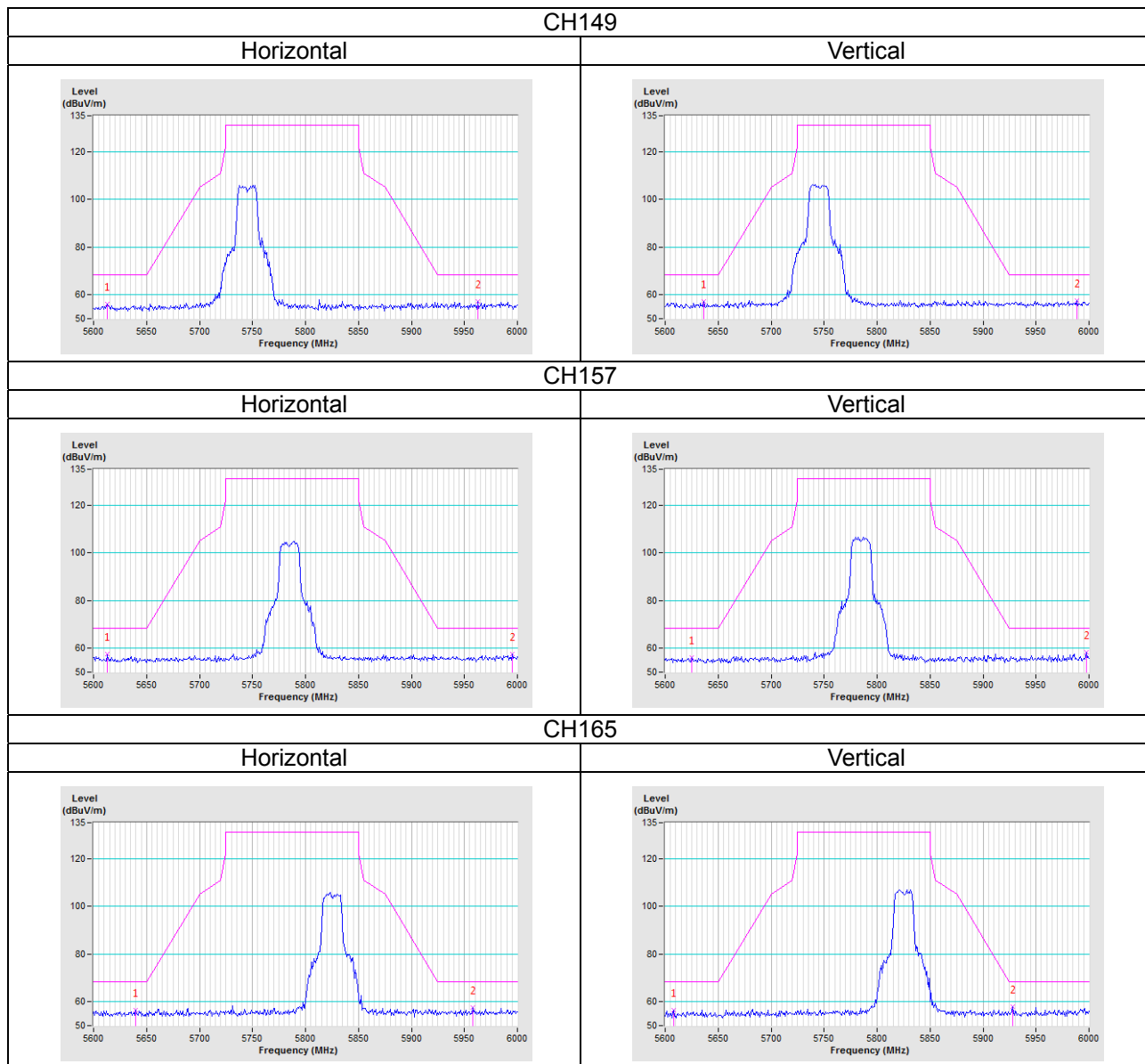
Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

Test Mode A

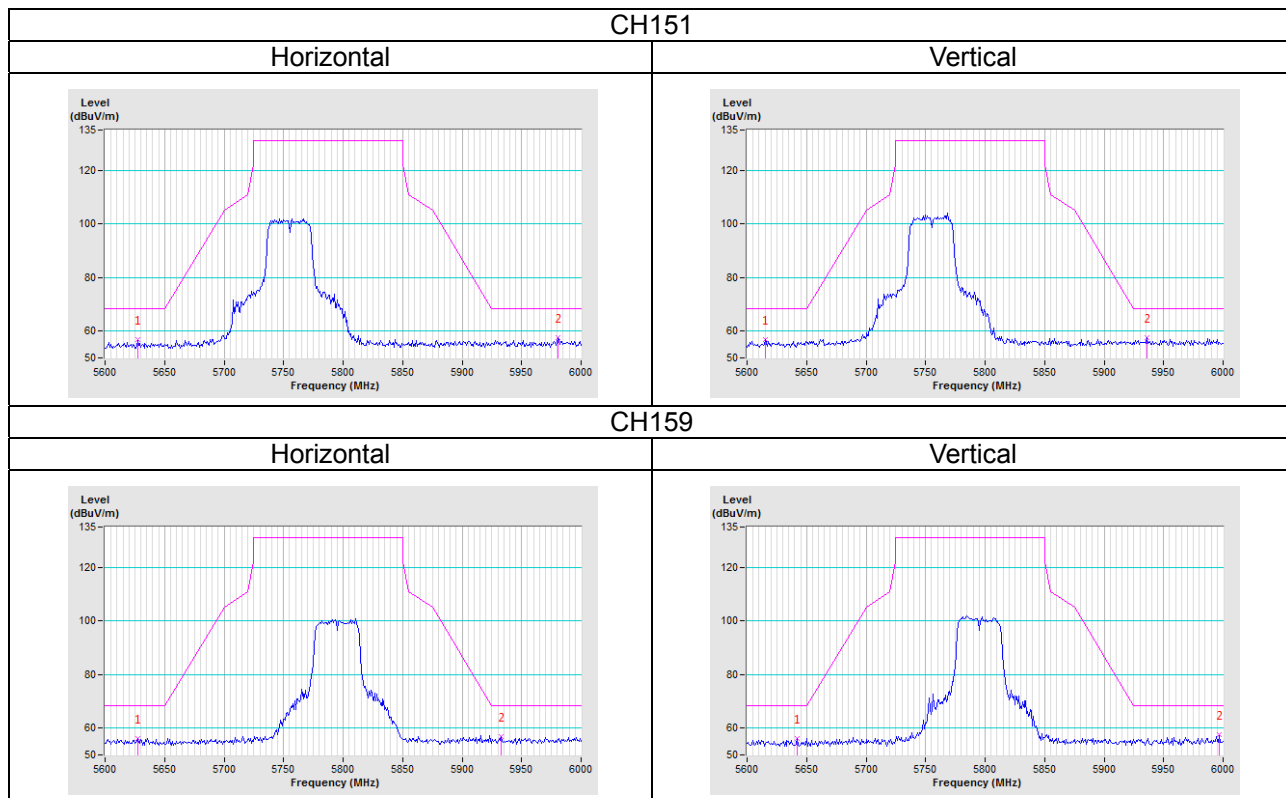
802.11a



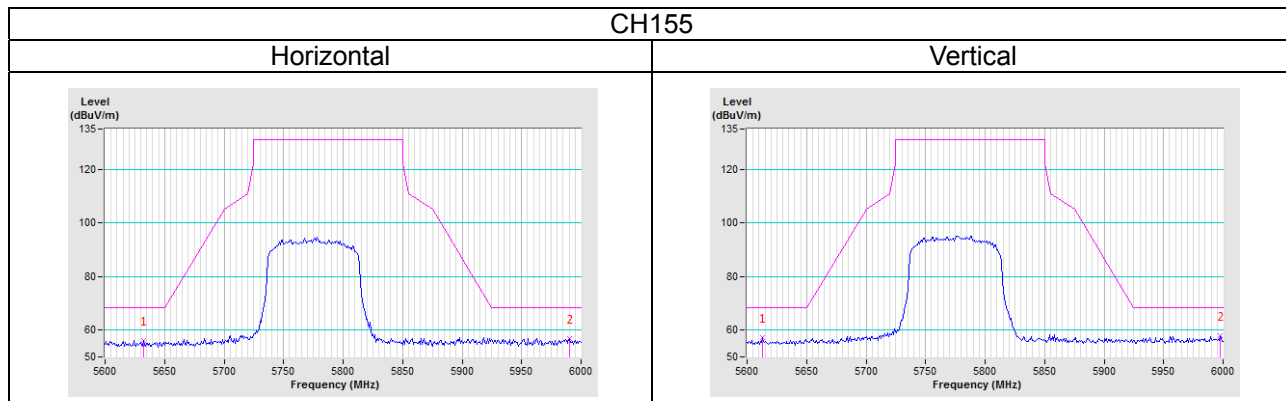
802.11n (HT20)



802.11n (HT40)

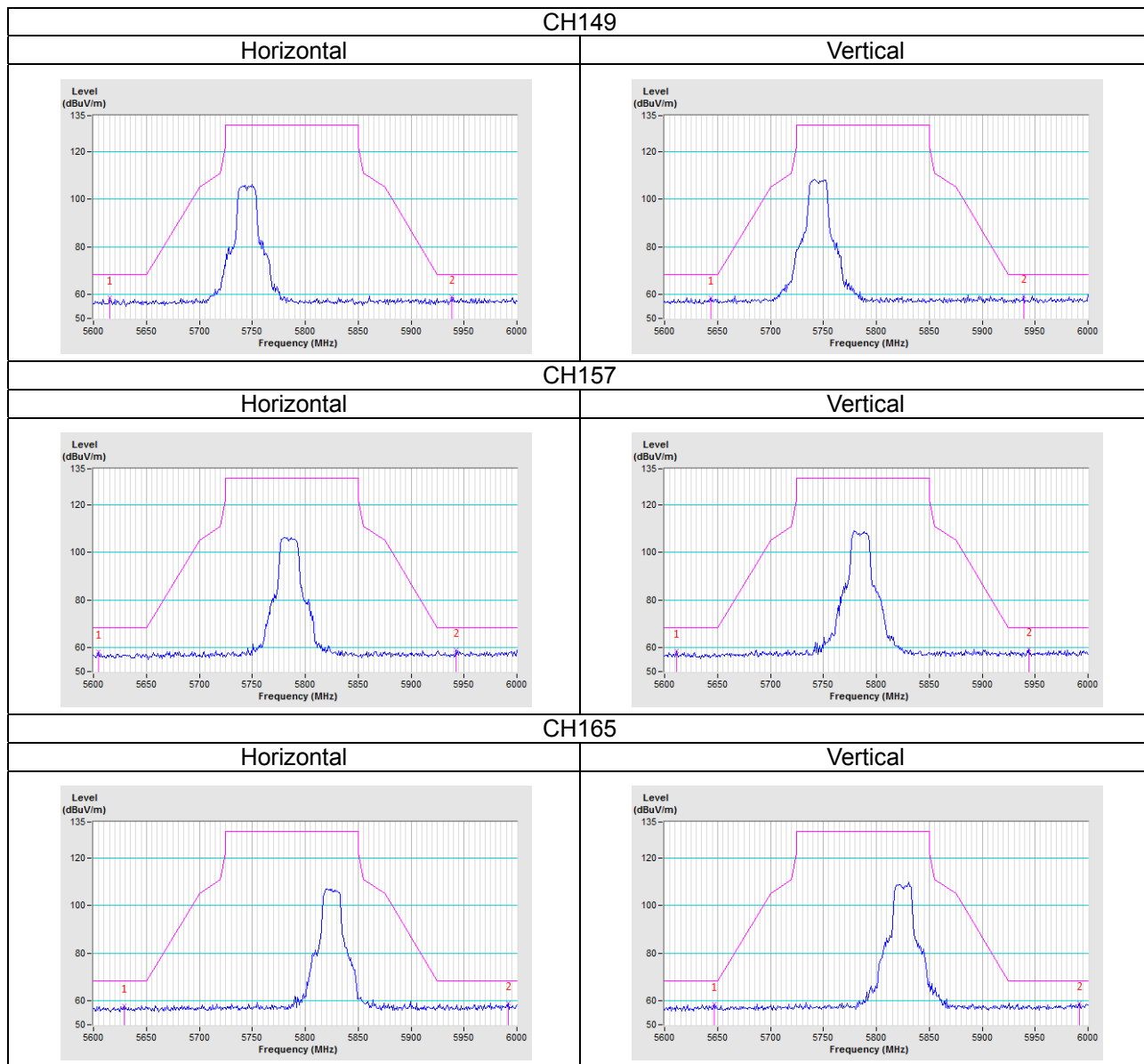


802.11ac (VHT80)

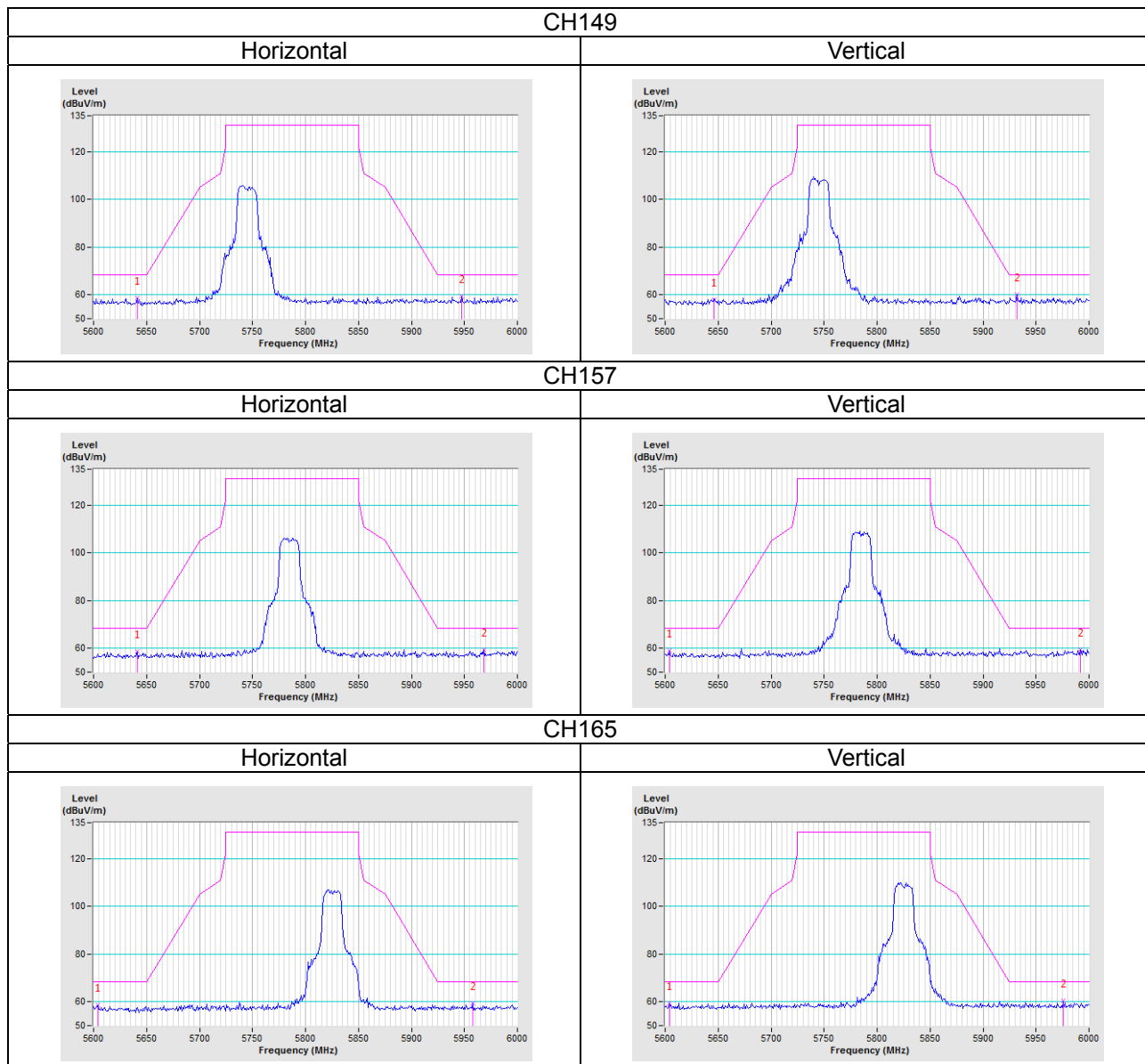


Test Mode B

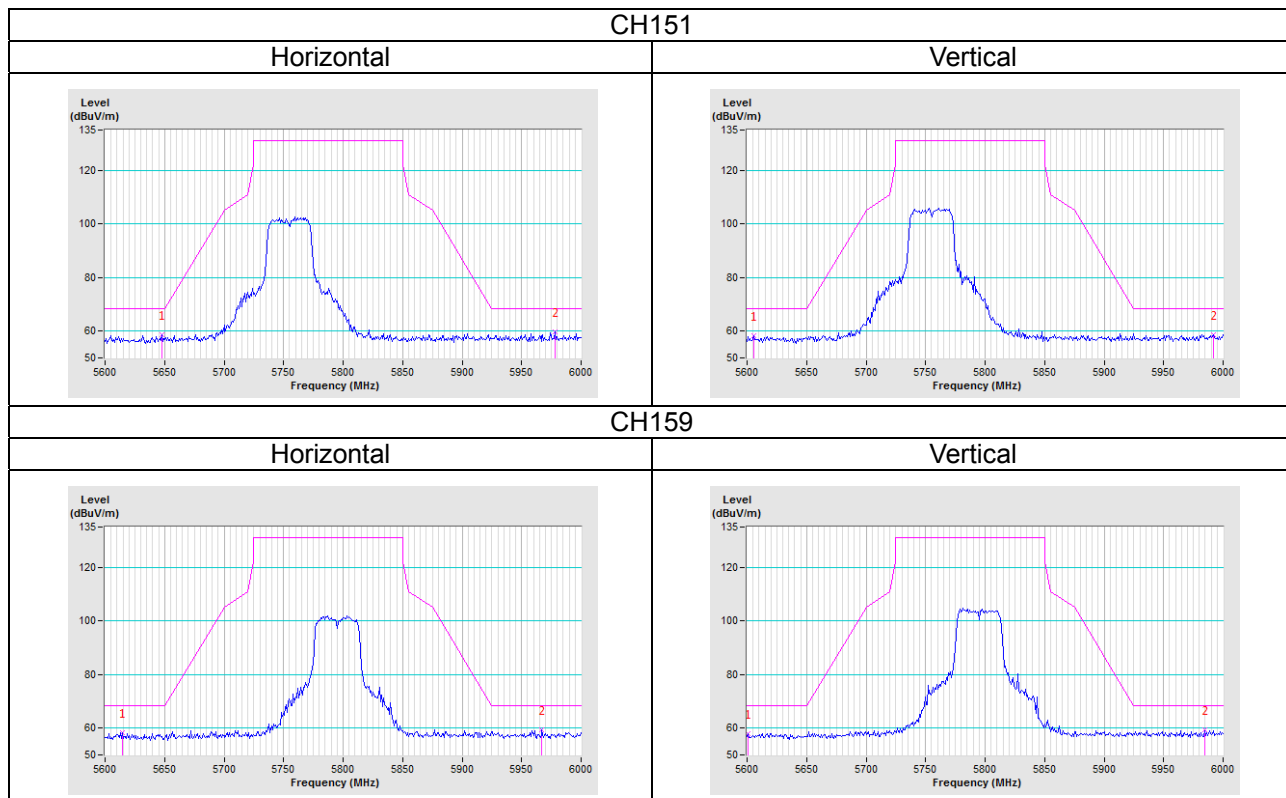
802.11a



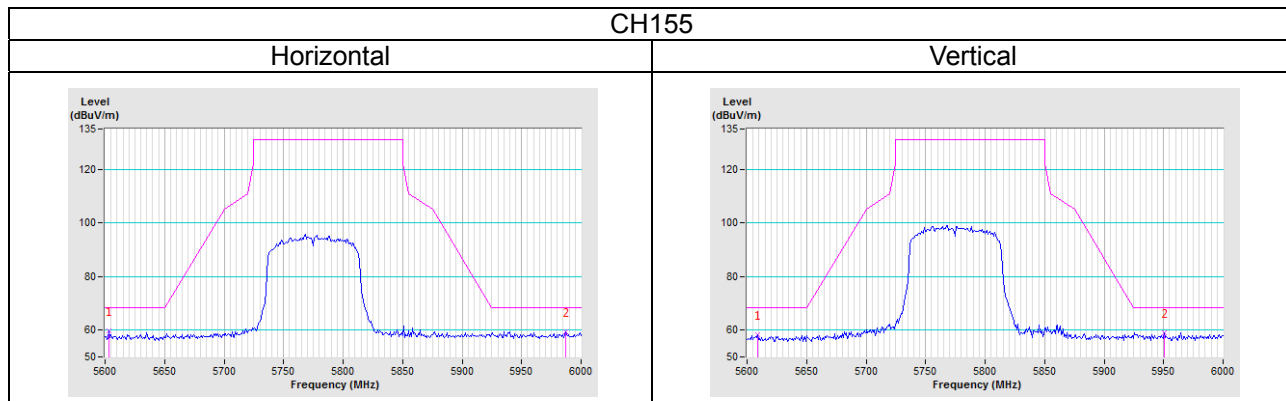
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



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:

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Web Site: www.bureauveritas-adt.com

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

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