FCC Test Report (WLAN)

Report No.:	RF140808E04X-1
FCC ID:	2AN9V-DVTRF001
Test Model:	DVTRF001
Received Date:	Aug. 08, 2014
Test Date:	Nov. 28 to Dec. 15, 2017; Jan. 23 to 25, 2018
Issued Date:	Mar. 28, 2018
Applicant:	Devialet
Address:	10 Place Vendome 75001 Paris France
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
FCC Registration / Designation Number:	723255 / TW2022

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Release Control Record

Issue No.	Description	Date Issued
RF140808E04X-1	Original release.	Mar. 28, 2018

1 Certificate of Conformity

Product:	WCBN3507A-D6
Brand:	Devialet
Test Model:	DVTRF001
Sample Status:	R&D SAMPLE
Applicant:	Devialet
Test Date:	Nov. 28 to Dec. 15, 2017; Jan. 23 to 25, 2018
Standard:	47 CFR FCC Part 15, Subpart E (Section 15.407) ANSI C63.10: 2013

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

Prepared by : Mary Ko , **Date:** Mar. 28, 2018

Mary Ko / Specialist

Approved by : , **Date:** Mar. 28, 2018

May Chen / Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -11.73dB at 0.18516MHz.
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 -0.1dB at 5150.00MHz, 5350.00MHz, 5470.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is IPEX not a standard connector.

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.

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) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.84 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.33 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.10 dB
	6GHz ~ 18GHz	4.85 dB
	18GHz ~ 40GHz	5.24 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (WLAN)

Product	WCBN3507A-D6
Brand	Devialet
Test Model	DVTRF001
Status of EUT	R&D SAMPLE
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT (20/40) mode in 2.4GHz
Modulation Technology	DSSS,OFDM
Transfer Rate	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n : up to 300Mbps 802.11ac: up to 866.7Mbps
Operating Frequency	**2.4GHz:** 2.412 ~ 2.462GHz **5GHz:** 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz, 5.5~5.72GHz, 5.745 ~ 5.825GHz
Number of Channel	**2.4GHz:** 802.11b, 802.11g, 802.11n (HT20), VHT20: 11 802.11n (HT40), VHT40: 7 **5GHz:** 802.11a, 802.11n (HT20), 802.11ac (VHT20): 25 802.11n (HT40), 802.11ac (VHT40): 12 802.11ac (VHT80): 6
Output Power	**2.4GHz:** 469.401mW **5.18 ~ 5.24GHz:** 77.033mW **5.26 ~ 5.32GHz:** 72.825mW **5.5 ~ 5.72GHz:** 74.001mW **5.745 ~ 5.825GHz:** 61.885mW
Antenna Type	See item 3.2
Antenna Connector	See item 3.2
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. There are Bluetooth technology and WLAN technology used for the EUT.
2. WLAN <5GHz> and Bluetooth technology can transmit at same time.

3. The EUT incorporates a 2T2R function with beamforming.

For 2.4G Band			
MODULATION MODE	**DATA RATE (MCS)**	**TX & RX CONFIGURATION**	
802.11b	1 ~ 11Mbps	2TX	2RX
802.11g	6 ~ 54Mbps	2TX	2RX
802.11n (HT20) & 802.11n (HT40)	MCS 0~7	2TX	2RX
	MCS 8~15	2TX	2RX
VHT20	MCS0~8 Nss=1	2TX	2RX
	MCS0~8 Nss=2	2TX	2RX
VHT40	MCS0~9 Nss=1	2TX	2RX
	MCS0~9 Nss=2	2TX	2RX
For 5G Band			
802.11a	6 ~ 54Mbps	2TX	2RX
802.11n (HT20) & 802.11n (HT40)	MCS 0~7	2TX	2RX
	MCS 8~15	2TX	2RX
802.11ac (VHT20)	MCS0~8 Nss=1	2TX	2RX
	MCS0~8 Nss=2	2TX	2RX
802.11ac (VHT40) & 802.11ac (VHT80)	MCS0~9 Nss=1	2TX	2RX
	MCS0~9 Nss=2	2TX	2RX

4. The EUT was pre-tested under the following modes:

Test Mode	Data rate
Mode A	400ns GI
Mode B	**800ns GI**

From the above modes, the worst case was found in **Mode B**. Therefore only the test data of the mode was recorded in this report.

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

3.2 Description of Antenna

The antenna gain was declared by client; please refer to the following table:

Antenna set 1									
Transmitter Circuit	Brand	Model	Antenna Type	2.4GHz Gain with cable loss (dBi)	5GHz Gain with cable loss (dBi)	2.4GHz Cable Loss (dB)	5G Cable Loss (dB)	Connector Type	Cable Length (mm)
Chain (0)	WNC	81-EBJ15.005	PIFA	3.62	Band 1&2: 3.08 Band 3: 4.76 Band 4: 4.76	1.15	Band 1&2:1.70 Band 3: 1.74 Band 4: 1.79	IPEX	300
Chain (1)	WNC	81-EBJ15.005	PIFA	3.62	Band 1&2: 3.08 Band 3: 4.76 Band 4: 4.76	1.15	Band 1&2:1.70 Band 3: 1.74 Band 4: 1.79	IPEX	300

Antenna set 2								
Transmitter Circuit	Brand	Model	Antenna Type	2.4GHz Gain with cable loss (dBi)	5GHz Gain with cable loss (dBi)	Cable Loss (dB)	Connector Type	Cable Length (mm)
Chain (0)	Tongda	T-543-8201044-A (Ant 1)	PIFA	3.572	Band 1&2: 3.002 Band 3: 4.546 Band 4: 4.416	NA	IPEX	77
Chain (1)	Tongda	T-543-8201044-A (Ant 2)	PIFA	3.325	Band 1&2: 2.942 Band 3: 4.622 Band 4: 4.586	NA	IPEX	61

Antenna set 3							
Transmitter Circuit	Brand	Model	Antenna Type	2.4GHz Gain with cable loss (dBi)	5GHz Gain with cable loss (dBi)	Cable Loss (dB)	Connector Type
Chain (0)	ethertronics	M830520	chip	1.1	3.2	NA	IPEX
Chain (1)	ethertronics	M830520	chip	1.1	3.2	NA	IPEX

Antenna set 4							
Transmitter Circuit	Brand	Model	Antenna Type	2.4GHz Gain with cable loss (dBi)	5GHz Gain with cable loss (dBi)	Cable Loss (dB)	Connector Type
Chain (0)	ethertronics	1002298	PIFA	3.6	5.1	NA	IPEX
Chain (1)	ethertronics	1002298	PIFA	3.6	5.1	NA	IPEX

Note: 1. Above antenna gains of antenna are Total (H+V).
2. All of antenna can be application for WLAN and Bluetooth.
3. Max. gain was selected for the final test.

3.3 Description of Test Modes

FOR 5180 ~ 5240MHz

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

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

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210 MHz

FOR 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	5290 MHz

FOR 5500 ~ 5720MHz

12 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	144	5720 MHz

6 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	142	5710 MHz

3 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	138	5690 MHz
122	5610 MHz		

FOR 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775 MHz

3.3.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE≥1G	RE<1G	PLC	APCM	
1	√	√	√	√	Antenna set 4
2	√	√	-	-	Antenna set 3

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

NOTE:
1. Mode 1: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.
2. Mode 2: The antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.
3. "-" 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.

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6
802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5
802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5
802.11ac (VHT80)		42	42	OFDM	29.3
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6
802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	6.5
802.11ac (VHT40)		54 to 62	54, 62	OFDM	13.5
802.11ac (VHT80)		58	58	OFDM	29.3
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6
802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	6.5
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	13.5
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	6.5
802.11ac (VHT40)		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.

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11a	5180-5320, 5260-5320 5500-5720, 5745-5825	36 to 62, 100 to 144, 149 to 165	157	OFDM	6

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.

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11a	5180-5320, 5260-5320 5500-5720, 5745-5825	36 to 62, 100 to 144, 149 to 165	157	OFDM	6

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	DATA RATE (Mbps)
802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6
802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5
802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5
802.11ac (VHT80)		42	42	OFDM	29.3
802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6
802.11ac (VHT20)		52 to 64	52, 60, 64	OFDM	6.5
802.11ac (VHT40)		54 to 62	54, 62	OFDM	13.5
802.11ac (VHT80)		58	58	OFDM	29.3
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6
802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	6.5
802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	13.5
802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6
802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	6.5
802.11ac (VHT40)		151 to 159	151, 159	OFDM	13.5
802.11ac (VHT80)		155	155	OFDM	29.3
802.11a	5745-5825	36 to 48	36, 40, 48	OFDM	6
802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	6.5
802.11ac (VHT40)		38 to 46	38, 46	OFDM	13.5
802.11ac (VHT80)		42	42	OFDM	29.3

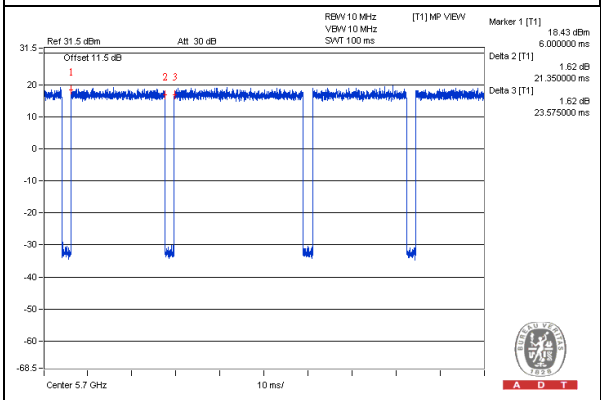
Test Condition:

Applicable To	Environmental Conditions	Input Power (SYSTEM)	Tested By
RE≥1G	22deg. C, 65%RH 21deg. C, 65%RH	120Vac, 60Hz	Weiwei Lo
RE<1G	25deg. C, 72%RH	120Vac, 60Hz	Rey Chen
PLC	23deg. C, 76%RH	120Vac, 60Hz	Andy Ho
APCM	25deg. C, 60%RH	120Vac, 60Hz	Anderson Chen

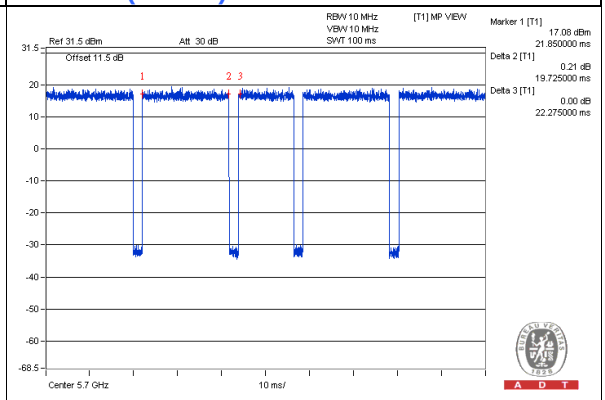
3.4 Duty Cycle of Test Signal

Duty cycle of test signal is < 98%, duty factor shall be considered.
802.11a: Duty cycle = 21.35 ms/23.575 ms = 0.906, Duty factor = 10 * log(1/0.906) = 0.43
802.11ac (VHT20): Duty cycle = 19.725 ms/22.275 ms = 0.886, Duty factor = 10 * log(1/0.886) = 0.53
802.11ac (VHT40): Duty cycle = 9.475 ms/11.7 ms = 0.81, Duty factor = 10 * log(1/0.81) = 0.92
802.11ac (VHT80): Duty cycle = 4.375 ms/7.075 ms = 0.618, Duty factor = 10 * log(1/0.618) = 2.09

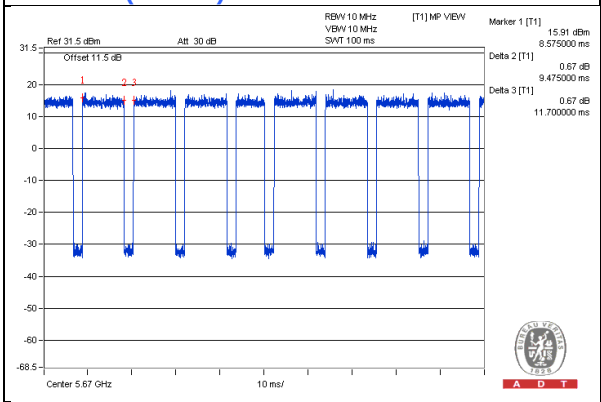
802.11a



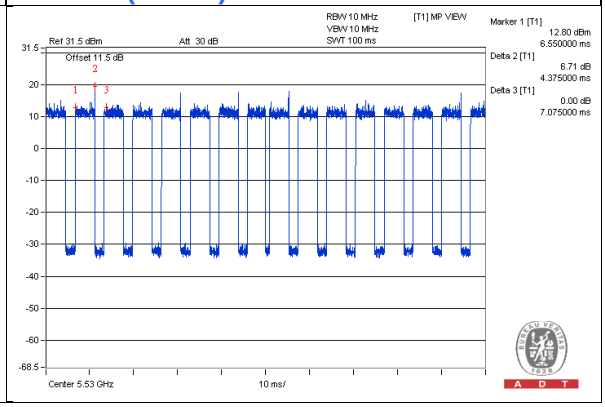
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



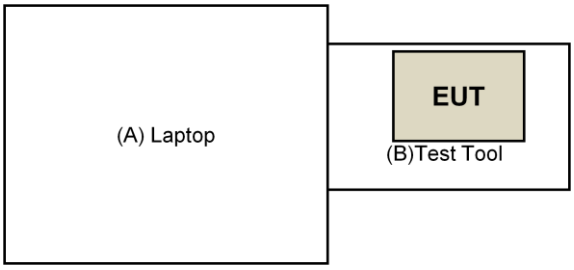
3.5 Description of Support Units

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.	Laptop	DELL	E6420	482T3R1	FCC DoC	Provided by Lab
B.	Test Tool	NA	NA	NA	NA	Supplied by client

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

3.5.1 Configuration of System under Test



3.6 General Description of Applied Standard

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

FCC Part 15, Subpart E (15.407)
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.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

NOTE:

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

Limits of unwanted emission out of the restricted bands

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules 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:

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

4.1.2 Test Instruments

For power output test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	July 1, 2017	June 30, 2018
Power meter Anritsu	ML2495A	1014008	May 11, 2017	May 10, 2018
Power sensor Anritsu	MA2411B	0917122	May 11, 2017	May 10, 2018
AC Power Source Extech Electronics	6205	1440452	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 10, 2018	Jan. 09, 2019
True RMS Clamp Meter FLUKE	325	31130711WS	May 29, 2017	May 28, 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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 4.
4 Loop antenna was used for all emissions below 30 MHz.
5. The CANADA Site Registration No. is 20331-2
6. Tested Date: Nov. 28, 2017

For other test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 08, 2017	July 07, 2018
Loop Antenna(*) TESEQ	HLA 6121	45745	May 19, 2017	May 18, 2018
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Nov. 09, 2017	Nov. 08, 2018
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Nov. 29, 2017	Nov. 28, 2018
RF Cable	8D	966-4-1 966-4-2 966-4-3	Apr. 01, 2017	Mar. 31, 2018
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Oct. 03, 2017	Oct. 02, 2018
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Dec. 12, 2017	Dec. 11, 2018
Pre-Amplifier EMCI	EMC12630SE	980385	Feb. 02, 2017	Feb. 01, 2018
RF Cable	EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000	160923 150318 150321	Feb. 02, 2017 Mar. 29, 2017 Mar. 29, 2017	Feb. 01, 2018 Mar. 28, 2018 Mar. 28, 2018
Pre-Amplifier EMCI	EMC184045SE	980387	Feb. 02, 2017	Feb. 01, 2018
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Dec. 14, 2017	Dec. 13, 2018
RF Cable	SUCOFLEX 102	36432/2 36433/2	Jan. 11, 2018	Jan. 10, 2019
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208410	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP02	NA	NA
Spectrum Analyzer R&S	FSV40	100964	July 1, 2017	June 30, 2018
Power meter Anritsu	ML2495A	1014008	May 11, 2017	May 10, 2018
Power sensor Anritsu	MA2411B	0917122	May 11, 2017	May 10, 2018
AC Power Source Extech Electronics	6205	1440452	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 10, 2018	Jan. 09, 2019
True RMS Clamp Meter FLUKE	325	31130711WS	May 29, 2017	May 28, 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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 4.
4 Loop antenna was used for all emissions below 30 MHz.
5. The CANADA Site Registration No. is 20331-2
6. Tested Date: Jan. 23 to 25, 2018

4.1.3 Test Procedure

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:

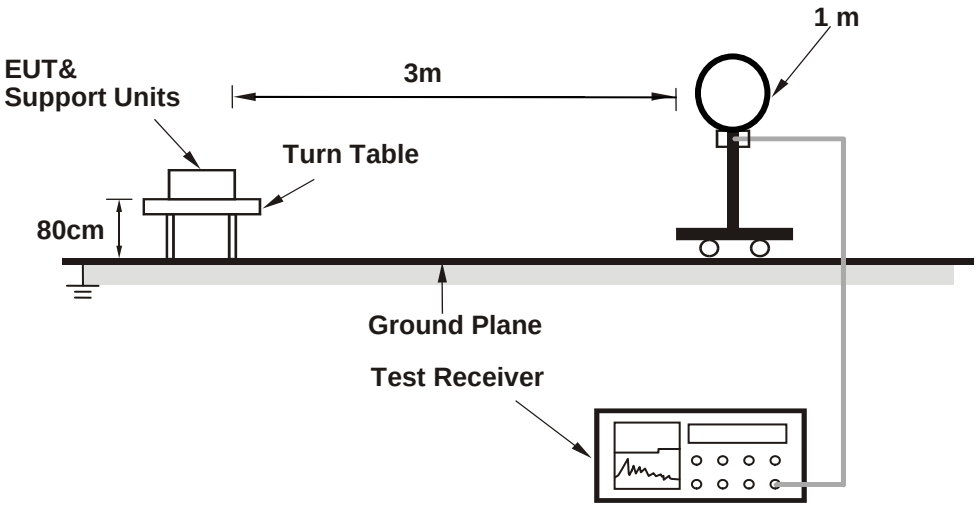
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

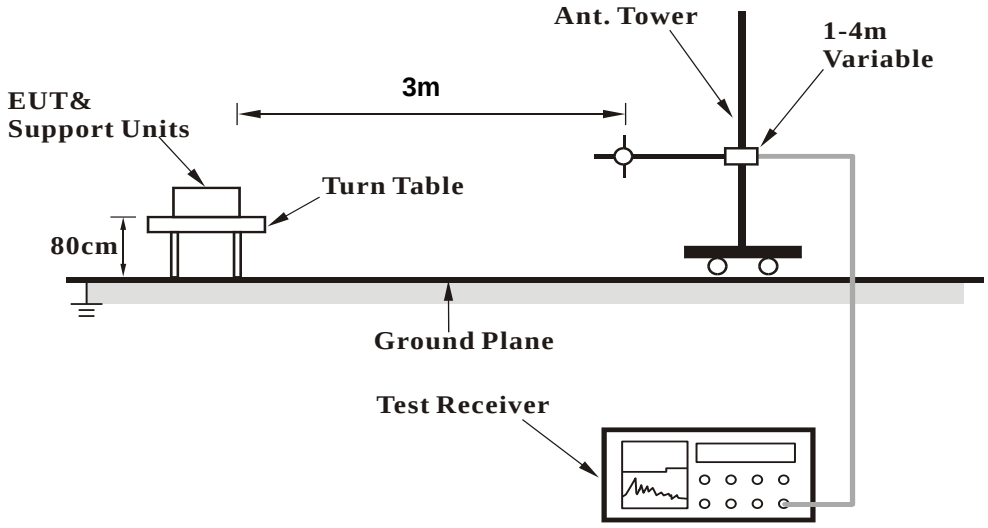
No deviation.

4.1.5 Test Setup

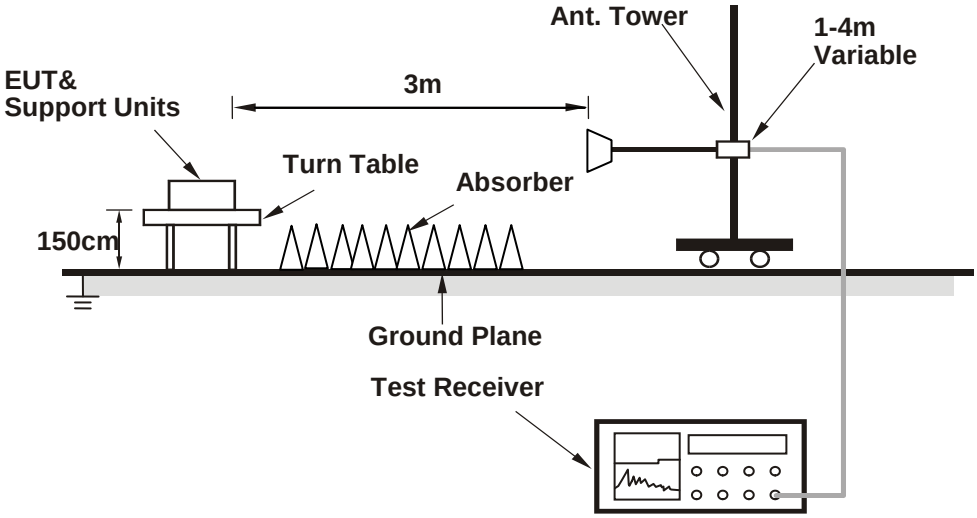
For Radiated emission below 30MHz



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 Condition

1. Connect the EUT with the support unit A (Notebook Computer) which is placed on a testing table.
2. The communication partner run test program “QCRT Version3.0 29.0” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

4.1.7 Test Results (Mode 1)

Above 1GHz Data

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.9 PK	74.0	-7.1	1.01 H	47	62.6	4.3
2	5150.00	49.9 AV	54.0	-4.1	1.01 H	47	45.6	4.3
3	*5180.00	110.4 PK			1.01 H	47	106.3	4.1
4	*5180.00	100.9 AV			1.01 H	47	96.8	4.1
5	#10360.00	45.3 PK	74.0	-28.7	1.60 H	168	32.0	13.3
6	#10360.00	33.3 AV	54.0	-20.7	1.60 H	168	20.0	13.3
7	15540.00	45.8 PK	74.0	-28.2	1.46 H	229	32.9	12.9
8	15540.00	33.4 AV	54.0	-20.6	1.46 H	229	20.5	12.9
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	5150.00	57.7 PK	74.0	-16.3	3.75 V	360	53.4	4.3
2	5150.00	40.6 AV	54.0	-13.4	3.75 V	360	36.3	4.3
3	*5180.00	106.7 PK			3.75 V	360	102.6	4.1
4	*5180.00	98.1 AV			3.75 V	360	94.0	4.1
5	#10360.00	43.3 PK	74.0	-30.7	1.54 V	106	30.0	13.3
6	#10360.00	32.3 AV	54.0	-21.7	1.54 V	106	19.0	13.3
7	15540.00	45.7 PK	74.0	-28.3	1.44 V	319	32.8	12.9
8	15540.00	33.0 AV	54.0	-21.0	1.44 V	319	20.1	12.9

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	112.2 PK			1.17 H	31	108.2	4.0
2	*5200.00	102.9 AV			1.17 H	31	98.9	4.0
3	#10400.00	45.0 PK	74.0	-29.0	1.63 H	153	31.5	13.5
4	#10400.00	33.1 AV	54.0	-20.9	1.63 H	153	19.6	13.5
5	15600.00	46.3 PK	74.0	-27.7	1.43 H	224	33.2	13.1
6	15600.00	33.7 AV	54.0	-20.3	1.43 H	224	20.6	13.1
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	*5200.00	108.6 PK			3.71 V	353	104.6	4.0
2	*5200.00	100.6 AV			3.71 V	353	96.6	4.0
3	#10400.00	43.3 PK	74.0	-30.7	1.57 V	91	29.8	13.5
4	#10400.00	32.2 AV	54.0	-21.8	1.57 V	91	18.7	13.5
5	15600.00	45.7 PK	74.0	-28.3	1.45 V	329	32.6	13.1
6	15600.00	32.9 AV	54.0	-21.1	1.45 V	329	19.8	13.1

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

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	112.3 PK			1.13 H	45	108.4	3.9
2	*5240.00	103.2 AV			1.13 H	45	99.3	3.9
3	5350.00	47.9 PK	74.0	-26.1	1.13 H	45	43.9	4.0
4	5350.00	36.2 AV	54.0	-17.8	1.13 H	45	32.2	4.0
5	#10480.00	45.0 PK	74.0	-29.0	1.63 H	170	31.0	14.0
6	#10480.00	33.0 AV	54.0	-21.0	1.63 H	170	19.0	14.0
7	15720.00	45.4 PK	74.0	-28.6	1.45 H	243	31.9	13.5
8	15720.00	32.9 AV	54.0	-21.1	1.45 H	243	19.4	13.5
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	108.9 PK			3.66 V	351	105.0	3.9
2	*5240.00	100.9 AV			3.66 V	351	97.0	3.9
3	5350.00	46.5 PK	74.0	-27.5	3.66 V	351	42.5	4.0
4	5350.00	35.2 AV	54.0	-18.8	3.66 V	351	31.2	4.0
5	#10480.00	42.6 PK	74.0	-31.4	1.56 V	93	28.6	14.0
6	#10480.00	31.8 AV	54.0	-22.2	1.56 V	93	17.8	14.0
7	15720.00	45.4 PK	74.0	-28.6	1.39 V	329	31.9	13.5
8	15720.00	32.9 AV	54.0	-21.1	1.39 V	329	19.4	13.5

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	58.2 PK	74.0	-15.8	1.16 H	44	53.9	4.3
2	5150.00	41.3 AV	54.0	-12.7	1.16 H	44	37.0	4.3
3	*5260.00	111.3 PK			1.16 H	44	107.5	3.8
4	*5260.00	102.8 AV			1.16 H	44	99.0	3.8
5	#10520.00	45.5 PK	74.0	-28.5	1.56 H	168	31.5	14.0
6	#10520.00	33.7 AV	54.0	-20.3	1.56 H	168	19.7	14.0
7	15780.00	45.7 PK	74.0	-28.3	1.42 H	230	32.1	13.6
8	15780.00	33.2 AV	54.0	-20.8	1.42 H	230	19.6	13.6
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	57.6 PK	74.0	-16.4	3.68 V	355	53.3	4.3
2	5150.00	40.2 AV	54.0	-13.8	3.68 V	355	35.9	4.3
3	*5260.00	107.6 PK			3.68 V	355	103.8	3.8
4	*5260.00	99.6 AV			3.68 V	355	95.8	3.8
5	#10520.00	42.9 PK	74.0	-31.1	1.52 V	109	28.9	14.0
6	#10520.00	32.0 AV	54.0	-22.0	1.52 V	109	18.0	14.0
7	15780.00	45.4 PK	74.0	-28.6	1.47 V	313	31.8	13.6
8	15780.00	32.7 AV	54.0	-21.3	1.47 V	313	19.1	13.6

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	112.6 PK			1.16 H	43	108.7	3.9
2	*5300.00	103.4 AV			1.16 H	43	99.5	3.9
3	10600.00	45.6 PK	74.0	-28.4	1.59 H	171	32.2	13.4
4	10600.00	33.7 AV	54.0	-20.3	1.59 H	171	20.3	13.4
5	15900.00	46.1 PK	74.0	-27.9	1.40 H	223	33.6	12.5
6	15900.00	33.7 AV	54.0	-20.3	1.40 H	223	21.2	12.5
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	*5300.00	109.1 PK			3.65 V	355	105.2	3.9
2	*5300.00	101.1 AV			3.65 V	355	97.2	3.9
3	10600.00	43.1 PK	74.0	-30.9	1.57 V	97	29.7	13.4
4	10600.00	32.0 AV	54.0	-22.0	1.57 V	97	18.6	13.4
5	15900.00	45.8 PK	74.0	-28.2	1.40 V	321	33.3	12.5
6	15900.00	33.2 AV	54.0	-20.8	1.40 V	321	20.7	12.5

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.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	112.8 PK			1.04 H	244	108.9	3.9
2	*5320.00	103.0 AV			1.04 H	244	99.1	3.9
3	5350.00	60.5 PK	74.0	-13.5	1.04 H	244	56.5	4.0
4	5350.00	52.8 AV	54.0	-1.2	1.04 H	244	48.8	4.0
5	10640.00	45.0 PK	74.0	-29.0	1.61 H	169	31.4	13.6
6	10640.00	32.8 AV	54.0	-21.2	1.61 H	169	19.2	13.6
7	15960.00	45.6 PK	74.0	-28.4	1.49 H	220	32.7	12.9
8	15960.00	33.1 AV	54.0	-20.9	1.49 H	220	20.2	12.9
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	*5320.00	106.2 PK			3.59 V	320	102.3	3.9
2	*5320.00	97.8 AV			3.59 V	320	93.9	3.9
3	5350.00	58.0 PK	74.0	-16.0	3.59 V	320	54.0	4.0
4	5350.00	40.9 AV	54.0	-13.1	3.59 V	320	36.9	4.0
5	10640.00	43.5 PK	74.0	-30.5	1.58 V	111	29.9	13.6
6	10640.00	32.4 AV	54.0	-21.6	1.58 V	111	18.8	13.6
7	15960.00	46.1 PK	74.0	-27.9	1.49 V	327	33.2	12.9
8	15960.00	33.2 AV	54.0	-20.8	1.49 V	327	20.3	12.9

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	67.3 PK	74.0	-6.7	1.03 H	243	63.0	4.3
2	#5470.00	51.8 AV	54.0	-2.2	1.03 H	243	47.5	4.3
3	*5500.00	112.1 PK			1.03 H	243	107.8	4.3
4	*5500.00	103.2 AV			1.03 H	243	98.9	4.3
5	11000.00	45.4 PK	74.0	-28.6	1.60 H	173	31.5	13.9
6	11000.00	33.5 AV	54.0	-20.5	1.60 H	173	19.6	13.9
7	#16500.00	45.8 PK	74.0	-28.2	1.42 H	225	30.2	15.6
8	#16500.00	33.2 AV	54.0	-20.8	1.42 H	225	17.6	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	#5470.00	58.2 PK	74.0	-15.8	3.66 V	255	53.9	4.3
2	#5470.00	41.0 AV	54.0	-13.0	3.66 V	255	36.7	4.3
3	*5500.00	106.5 PK			3.66 V	255	102.2	4.3
4	*5500.00	98.3 AV			3.66 V	255	94.0	4.3
5	11000.00	43.5 PK	74.0	-30.5	1.51 V	95	29.6	13.9
6	11000.00	32.7 AV	54.0	-21.3	1.51 V	95	18.8	13.9
7	#16500.00	45.2 PK	74.0	-28.8	1.38 V	320	29.6	15.6
8	#16500.00	32.8 AV	54.0	-21.2	1.38 V	320	17.2	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 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	112.2 PK			1.15 H	42	107.8	4.4
2	*5580.00	102.9 AV			1.15 H	42	98.5	4.4
3	11160.00	44.7 PK	74.0	-29.3	1.57 H	177	31.0	13.7
4	11160.00	33.0 AV	54.0	-21.0	1.57 H	177	19.3	13.7
5	#16740.00	45.9 PK	74.0	-28.1	1.47 H	245	29.3	16.6
6	#16740.00	33.6 AV	54.0	-20.4	1.47 H	245	17.0	16.6
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	*5580.00	109.1 PK			3.63 V	353	104.7	4.4
2	*5580.00	100.9 AV			3.63 V	353	96.5	4.4
3	11160.00	43.0 PK	74.0	-31.0	1.56 V	108	29.3	13.7
4	11160.00	31.9 AV	54.0	-22.1	1.56 V	108	18.2	13.7
5	#16740.00	45.7 PK	74.0	-28.3	1.41 V	321	29.1	16.6
6	#16740.00	32.9 AV	54.0	-21.1	1.41 V	321	16.3	16.6

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

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	112.1 PK			1.02 H	52	107.6	4.5
2	*5700.00	102.3 AV			1.02 H	52	97.8	4.5
3	#5725.00	68.0 PK	74.0	-6.0	1.02 H	52	63.5	4.5
4	#5725.00	53.7 AV	54.0	-0.3	1.02 H	52	49.2	4.5
5	11400.00	45.8 PK	74.0	-28.2	1.64 H	162	31.3	14.5
6	11400.00	33.8 AV	54.0	-20.2	1.64 H	162	19.3	14.5
7	#17100.00	45.2 PK	74.0	-28.8	1.43 H	225	27.9	17.3
8	#17100.00	33.1 AV	54.0	-20.9	1.43 H	225	15.8	17.3
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	*5700.00	105.8 PK			3.66 V	352	101.3	4.5
2	*5700.00	96.2 AV			3.66 V	352	91.7	4.5
3	#5725.00	57.7 PK	74.0	-16.3	3.66 V	352	53.2	4.5
4	#5725.00	40.7 AV	54.0	-13.3	3.66 V	352	36.2	4.5
5	11400.00	43.1 PK	74.0	-30.9	1.52 V	106	28.6	14.5
6	11400.00	32.3 AV	54.0	-21.7	1.52 V	106	17.8	14.5
7	#17100.00	45.7 PK	74.0	-28.3	1.45 V	318	28.4	17.3
8	#17100.00	33.1 AV	54.0	-20.9	1.45 V	318	15.8	17.3

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	60.2 PK	74.0	-13.8	1.12 H	30	55.9	4.3
2	#5470.00	42.6 AV	54.0	-11.4	1.12 H	30	38.3	4.3
3	*5720.00	112.4 PK			1.12 H	30	107.9	4.5
4	*5720.00	103.5 AV			1.12 H	30	99.0	4.5
5	#5850.00	58.6 PK	74.0	-15.4	1.12 H	30	53.8	4.8
6	#5850.00	41.2 AV	54.0	-12.8	1.12 H	30	36.4	4.8
7	11440.00	45.4 PK	74.0	-28.6	1.61 H	172	31.2	14.2
8	11440.00	33.3 AV	54.0	-20.7	1.61 H	172	19.1	14.2
9	#17160.00	45.8 PK	74.0	-28.2	1.40 H	229	28.9	16.9
10	#17160.00	33.4 AV	54.0	-20.6	1.40 H	229	16.5	16.9
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	#5470.00	58.0 PK	74.0	-16.0	3.66 V	339	53.7	4.3
2	#5470.00	41.5 AV	54.0	-12.5	3.66 V	339	37.2	4.3
3	*5720.00	109.8 PK			3.66 V	339	105.3	4.5
4	*5720.00	101.9 AV			3.66 V	339	97.4	4.5
5	#5850.00	57.1 PK	74.0	-16.9	3.66 V	339	52.3	4.8
6	#5850.00	40.1 AV	54.0	-13.9	3.66 V	339	35.3	4.8
7	11440.00	43.3 PK	74.0	-30.7	1.48 V	117	29.1	14.2
8	11440.00	32.6 AV	54.0	-21.4	1.48 V	117	18.4	14.2
9	#17160.00	45.9 PK	74.0	-28.1	1.43 V	310	29.0	16.9
10	#17160.00	33.1 AV	54.0	-20.9	1.43 V	310	16.2	16.9

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

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	*5745.00	111.2 PK			1.20 H	240	106.6	4.6
2	*5745.00	102.0 AV			1.20 H	240	97.4	4.6
3	11490.00	47.1 PK	74.0	-26.9	3.33 H	235	33.0	14.1
4	11490.00	34.7 AV	54.0	-19.3	3.33 H	235	20.6	14.1
5	#17235.00	51.7 PK	74.0	-22.3	1.62 H	67	34.8	16.9
6	#17235.00	38.5 AV	54.0	-15.5	1.62 H	67	21.6	16.9
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	*5745.00	108.2 PK			1.44 V	100	103.6	4.6
2	*5745.00	100.3 AV			1.44 V	100	95.7	4.6
3	11490.00	49.7 PK	74.0	-24.3	3.92 V	312	35.6	14.1
4	11490.00	37.4 AV	54.0	-16.6	3.92 V	312	23.3	14.1
5	#17235.00	53.3 PK	74.0	-20.7	1.51 V	95	36.4	16.9
6	#17235.00	40.5 AV	54.0	-13.5	1.51 V	95	23.6	16.9

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	112.8 PK			1.13 H	255	108.2	4.6
2	*5785.00	103.7 AV			1.13 H	255	99.1	4.6
3	11570.00	47.1 PK	74.0	-26.9	3.36 H	243	33.0	14.1
4	11570.00	34.5 AV	54.0	-19.5	3.36 H	243	20.4	14.1
5	#17355.00	52.2 PK	74.0	-21.8	1.63 H	78	34.4	17.8
6	#17355.00	38.8 AV	54.0	-15.2	1.63 H	78	21.0	17.8
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	*5785.00	111.1 PK			1.56 V	76	106.5	4.6
2	*5785.00	102.4 AV			1.56 V	76	97.8	4.6
3	11570.00	49.7 PK	74.0	-24.3	3.93 V	308	35.6	14.1
4	11570.00	37.6 AV	54.0	-16.4	3.93 V	308	23.5	14.1
5	#17355.00	53.2 PK	74.0	-20.8	1.54 V	101	35.4	17.8
6	#17355.00	40.3 AV	54.0	-13.7	1.54 V	101	22.5	17.8

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	112.3 PK			1.19 H	237	107.5	4.8
2	*5825.00	101.9 AV			1.19 H	237	97.1	4.8
3	11650.00	47.0 PK	74.0	-27.0	3.30 H	243	33.0	14.0
4	11650.00	34.5 AV	54.0	-19.5	3.30 H	243	20.5	14.0
5	#17475.00	52.1 PK	74.0	-21.9	1.65 H	67	33.1	19.0
6	#17475.00	38.9 AV	54.0	-15.1	1.65 H	67	19.9	19.0
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	*5825.00	111.3 PK			1.51 V	86	106.5	4.8
2	*5825.00	101.9 AV			1.51 V	86	97.1	4.8
3	11650.00	49.8 PK	74.0	-24.2	3.93 V	311	35.8	14.0
4	11650.00	37.4 AV	54.0	-16.6	3.93 V	311	23.4	14.0
5	#17475.00	53.5 PK	74.0	-20.5	1.55 V	97	34.5	19.0
6	#17475.00	40.7 AV	54.0	-13.3	1.55 V	97	21.7	19.0

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.

802.11ac (VHT20)

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

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	61.4 PK	74.0	-12.6	1.01 H	56	57.1	4.3
2	5150.00	48.9 AV	54.0	-5.1	1.01 H	56	44.6	4.3
3	*5180.00	109.8 PK			1.01 H	56	105.7	4.1
4	*5180.00	100.3 AV			1.01 H	56	96.2	4.1
5	#10360.00	45.1 PK	74.0	-28.9	1.58 H	155	31.8	13.3
6	#10360.00	33.2 AV	54.0	-20.8	1.58 H	155	19.9	13.3
7	15540.00	45.6 PK	74.0	-28.4	1.48 H	213	32.7	12.9
8	15540.00	33.0 AV	54.0	-21.0	1.48 H	213	20.1	12.9
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	5150.00	57.3 PK	74.0	-16.7	3.76 V	354	53.0	4.3
2	5150.00	40.1 AV	54.0	-13.9	3.76 V	354	35.8	4.3
3	*5180.00	106.7 PK			3.72 V	360	102.6	4.1
4	*5180.00	97.9 AV			3.72 V	360	93.8	4.1
5	#10360.00	42.8 PK	74.0	-31.2	1.50 V	111	29.5	13.3
6	#10360.00	31.8 AV	54.0	-22.2	1.50 V	111	18.5	13.3
7	15540.00	45.2 PK	74.0	-28.8	1.44 V	316	32.3	12.9
8	15540.00	32.8 AV	54.0	-21.2	1.44 V	316	19.9	12.9

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	111.6 PK			2.33 H	39	107.6	4.0
2	*5200.00	102.0 AV			2.33 H	39	98.0	4.0
3	#10400.00	45.1 PK	74.0	-28.9	1.54 H	158	31.6	13.5
4	#10400.00	33.0 AV	54.0	-21.0	1.54 H	158	19.5	13.5
5	15600.00	45.4 PK	74.0	-28.6	1.48 H	244	32.3	13.1
6	15600.00	33.1 AV	54.0	-20.9	1.48 H	244	20.0	13.1
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	*5200.00	107.6 PK			3.69 V	338	103.6	4.0
2	*5200.00	99.6 AV			3.69 V	338	95.6	4.0
3	#10400.00	43.1 PK	74.0	-30.9	1.58 V	83	29.6	13.5
4	#10400.00	31.9 AV	54.0	-22.1	1.58 V	83	18.4	13.5
5	15600.00	46.1 PK	74.0	-27.9	1.43 V	342	33.0	13.1
6	15600.00	33.3 AV	54.0	-20.7	1.43 V	342	20.2	13.1

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

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	111.3 PK			2.29 H	54	107.4	3.9
2	*5240.00	101.8 AV			2.29 H	54	97.9	3.9
3	5350.00	48.5 PK	74.0	-25.5	2.29 H	54	44.5	4.0
4	5350.00	35.4 AV	54.0	-18.6	2.29 H	54	31.4	4.0
5	#10480.00	45.1 PK	74.0	-28.9	1.63 H	171	31.1	14.0
6	#10480.00	33.4 AV	54.0	-20.6	1.63 H	171	19.4	14.0
7	15720.00	46.1 PK	74.0	-27.9	1.42 H	234	32.6	13.5
8	15720.00	33.5 AV	54.0	-20.5	1.42 H	234	20.0	13.5
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	107.9 PK			3.74 V	337	104.0	3.9
2	*5240.00	100.0 AV			3.74 V	337	96.1	3.9
3	5350.00	46.3 PK	74.0	-27.7	3.74 V	337	42.3	4.0
4	5350.00	34.5 AV	54.0	-19.5	3.74 V	337	30.5	4.0
5	#10480.00	42.6 PK	74.0	-31.4	1.63 V	89	28.6	14.0
6	#10480.00	31.6 AV	54.0	-22.4	1.63 V	89	17.6	14.0
7	15720.00	45.9 PK	74.0	-28.1	1.42 V	348	32.4	13.5
8	15720.00	32.9 AV	54.0	-21.1	1.42 V	348	19.4	13.5

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	59.6 PK	74.0	-14.4	2.25 H	65	55.3	4.3
2	5150.00	41.3 AV	54.0	-12.7	2.25 H	65	37.0	4.3
3	*5260.00	111.2 PK			2.25 H	65	107.4	3.8
4	*5260.00	101.8 AV			2.25 H	65	98.0	3.8
5	#10520.00	45.7 PK	74.0	-28.3	1.62 H	169	31.7	14.0
6	#10520.00	33.6 AV	54.0	-20.4	1.62 H	169	19.6	14.0
7	15780.00	45.6 PK	74.0	-28.4	1.48 H	226	32.0	13.6
8	15780.00	33.2 AV	54.0	-20.8	1.48 H	226	19.6	13.6
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	57.3 PK	74.0	-16.7	3.67 V	334	53.0	4.3
2	5150.00	39.9 AV	54.0	-14.1	3.67 V	334	35.6	4.3
3	*5260.00	107.5 PK			3.67 V	334	103.7	3.8
4	*5260.00	99.8 AV			3.67 V	334	96.0	3.8
5	#10520.00	43.0 PK	74.0	-31.0	1.60 V	89	29.0	14.0
6	#10520.00	32.0 AV	54.0	-22.0	1.60 V	89	18.0	14.0
7	15780.00	46.1 PK	74.0	-27.9	1.46 V	333	32.5	13.6
8	15780.00	33.1 AV	54.0	-20.9	1.46 V	333	19.5	13.6

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	112.0 PK			1.00 H	249	108.1	3.9
2	*5300.00	103.2 AV			1.00 H	249	99.3	3.9
3	10600.00	45.5 PK	74.0	-28.5	1.64 H	173	32.1	13.4
4	10600.00	33.4 AV	54.0	-20.6	1.64 H	173	20.0	13.4
5	15900.00	45.9 PK	74.0	-28.1	1.50 H	226	33.4	12.5
6	15900.00	33.7 AV	54.0	-20.3	1.50 H	226	21.2	12.5
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	*5300.00	106.8 PK			3.65 V	320	102.9	3.9
2	*5300.00	98.3 AV			3.65 V	320	94.4	3.9
3	10600.00	42.5 PK	74.0	-31.5	1.50 V	59	29.1	13.4
4	10600.00	31.8 AV	54.0	-22.2	1.50 V	59	18.4	13.4
5	15900.00	45.9 PK	74.0	-28.1	1.41 V	354	33.4	12.5
6	15900.00	32.9 AV	54.0	-21.1	1.41 V	354	20.4	12.5

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.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	111.2 PK			1.05 H	248	107.3	3.9
2	*5320.00	101.5 AV			1.05 H	248	97.6	3.9
3	5350.00	68.5 PK	74.0	-5.5	1.05 H	248	64.5	4.0
4	5350.00	52.9 AV	54.0	-1.1	1.05 H	248	48.9	4.0
5	10640.00	45.5 PK	74.0	-28.5	1.60 H	154	31.9	13.6
6	10640.00	33.5 AV	54.0	-20.5	1.60 H	154	19.9	13.6
7	15960.00	45.3 PK	74.0	-28.7	1.46 H	226	32.4	12.9
8	15960.00	33.2 AV	54.0	-20.8	1.46 H	226	20.3	12.9
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	*5320.00	105.6 PK			3.55 V	359	101.7	3.9
2	*5320.00	97.6 AV			3.55 V	359	93.7	3.9
3	5350.00	57.9 PK	74.0	-16.1	3.55 V	359	53.9	4.0
4	5350.00	40.3 AV	54.0	-13.7	3.55 V	359	36.3	4.0
5	10640.00	43.1 PK	74.0	-30.9	1.51 V	67	29.5	13.6
6	10640.00	32.0 AV	54.0	-22.0	1.51 V	67	18.4	13.6
7	15960.00	46.0 PK	74.0	-28.0	1.43 V	359	33.1	12.9
8	15960.00	33.4 AV	54.0	-20.6	1.43 V	359	20.5	12.9

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	72.1 PK	74.0	-1.9	1.05 H	250	67.8	4.3
2	#5470.00	53.8 AV	54.0	-0.2	1.05 H	250	49.5	4.3
3	*5500.00	111.7 PK			1.05 H	250	107.4	4.3
4	*5500.00	102.9 AV			1.05 H	250	98.6	4.3
5	11000.00	45.3 PK	74.0	-28.7	1.56 H	153	31.4	13.9
6	11000.00	33.2 AV	54.0	-20.8	1.56 H	153	19.3	13.9
7	#16500.00	45.4 PK	74.0	-28.6	1.49 H	215	29.8	15.6
8	#16500.00	32.9 AV	54.0	-21.1	1.49 H	215	17.3	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	#5470.00	58.0 PK	74.0	-16.0	3.61 V	314	53.7	4.3
2	#5470.00	40.3 AV	54.0	-13.7	3.61 V	314	36.0	4.3
3	*5500.00	107.2 PK			3.61 V	314	102.9	4.3
4	*5500.00	98.5 AV			3.61 V	314	94.2	4.3
5	11000.00	43.6 PK	74.0	-30.4	1.49 V	77	29.7	13.9
6	11000.00	32.6 AV	54.0	-21.4	1.49 V	77	18.7	13.9
7	#16500.00	45.7 PK	74.0	-28.3	1.33 V	346	30.1	15.6
8	#16500.00	33.2 AV	54.0	-20.8	1.33 V	346	17.6	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 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	111.4 PK			2.31 H	59	107.0	4.4
2	*5580.00	101.9 AV			2.31 H	59	97.5	4.4
3	11160.00	44.8 PK	74.0	-29.2	1.57 H	157	31.1	13.7
4	11160.00	33.1 AV	54.0	-20.9	1.57 H	157	19.4	13.7
5	#16740.00	46.4 PK	74.0	-27.6	1.50 H	239	29.8	16.6
6	#16740.00	33.9 AV	54.0	-20.1	1.50 H	239	17.3	16.6
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	*5580.00	107.9 PK			3.69 V	347	103.5	4.4
2	*5580.00	100.1 AV			3.69 V	347	95.7	4.4
3	11160.00	43.0 PK	74.0	-31.0	1.53 V	68	29.3	13.7
4	11160.00	32.1 AV	54.0	-21.9	1.53 V	68	18.4	13.7
5	#16740.00	45.9 PK	74.0	-28.1	1.38 V	357	29.3	16.6
6	#16740.00	33.1 AV	54.0	-20.9	1.38 V	357	16.5	16.6

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

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	111.4 PK			2.16 H	51	106.9	4.5
2	*5700.00	101.2 AV			2.16 H	51	96.7	4.5
3	#5725.00	67.9 PK	74.0	-6.1	2.16 H	51	63.4	4.5
4	#5725.00	53.8 AV	54.0	-0.2	2.16 H	51	49.3	4.5
5	11400.00	45.6 PK	74.0	-28.4	1.55 H	166	31.1	14.5
6	11400.00	33.6 AV	54.0	-20.4	1.55 H	166	19.1	14.5
7	#17100.00	46.1 PK	74.0	-27.9	1.49 H	230	28.8	17.3
8	#17100.00	33.5 AV	54.0	-20.5	1.49 H	230	16.2	17.3
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	*5700.00	104.6 PK			3.56 V	345	100.1	4.5
2	*5700.00	96.5 AV			3.56 V	345	92.0	4.5
3	#5725.00	57.5 PK	74.0	-16.5	3.56 V	345	53.0	4.5
4	#5725.00	39.8 AV	54.0	-14.2	3.56 V	345	35.3	4.5
5	11400.00	42.5 PK	74.0	-31.5	1.50 V	73	28.0	14.5
6	11400.00	31.6 AV	54.0	-22.4	1.50 V	73	17.1	14.5
7	#17100.00	45.2 PK	74.0	-28.8	1.41 V	355	27.9	17.3
8	#17100.00	32.7 AV	54.0	-21.3	1.41 V	355	15.4	17.3

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	60.8 PK	74.0	-13.2	2.30 H	38	56.5	4.3
2	#5470.00	42.6 AV	54.0	-11.4	2.30 H	38	38.3	4.3
3	*5720.00	112.3 PK			2.30 H	38	107.8	4.5
4	*5720.00	102.5 AV			2.30 H	38	98.0	4.5
5	#5850.00	58.6 PK	74.0	-15.4	2.30 H	38	53.8	4.8
6	#5850.00	41.7 AV	54.0	-12.3	2.30 H	38	36.9	4.8
7	11440.00	45.6 PK	74.0	-28.4	1.56 H	155	31.4	14.2
8	11440.00	33.4 AV	54.0	-20.6	1.56 H	155	19.2	14.2
9	#17160.00	45.4 PK	74.0	-28.6	1.41 H	222	28.5	16.9
10	#17160.00	33.1 AV	54.0	-20.9	1.41 H	222	16.2	16.9
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	#5470.00	58.9 PK	74.0	-15.1	3.55 V	355	54.6	4.3
2	#5470.00	41.8 AV	54.0	-12.2	3.55 V	355	37.5	4.3
3	*5720.00	108.9 PK			3.55 V	355	104.4	4.5
4	*5720.00	101.2 AV			3.55 V	355	96.7	4.5
5	#5850.00	57.5 PK	74.0	-16.5	3.55 V	355	52.7	4.8
6	#5850.00	40.1 AV	54.0	-13.9	3.55 V	355	35.3	4.8
7	11440.00	42.7 PK	74.0	-31.3	1.48 V	53	28.5	14.2
8	11440.00	31.9 AV	54.0	-22.1	1.48 V	53	17.7	14.2
9	#17160.00	46.0 PK	74.0	-28.0	1.41 V	344	29.1	16.9
10	#17160.00	33.4 AV	54.0	-20.6	1.41 V	344	16.5	16.9

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

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	*5745.00	111.9 PK			1.23 H	231	107.3	4.6
2	*5745.00	101.4 AV			1.23 H	231	96.8	4.6
3	11490.00	46.9 PK	74.0	-27.1	3.38 H	220	32.8	14.1
4	11490.00	34.4 AV	54.0	-19.6	3.38 H	220	20.3	14.1
5	#17235.00	51.5 PK	74.0	-22.5	1.62 H	58	34.6	16.9
6	#17235.00	38.5 AV	54.0	-15.5	1.62 H	58	21.6	16.9
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	*5745.00	108.3 PK			1.50 V	109	103.7	4.6
2	*5745.00	100.7 AV			1.50 V	109	96.1	4.6
3	11490.00	49.1 PK	74.0	-24.9	3.87 V	310	35.0	14.1
4	11490.00	37.0 AV	54.0	-17.0	3.87 V	310	22.9	14.1
5	#17235.00	52.9 PK	74.0	-21.1	1.51 V	82	36.0	16.9
6	#17235.00	40.2 AV	54.0	-13.8	1.51 V	82	23.3	16.9

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	112.0 PK			1.19 H	266	107.4	4.6
2	*5785.00	102.8 AV			1.19 H	266	98.2	4.6
3	11570.00	46.7 PK	74.0	-27.3	3.31 H	221	32.6	14.1
4	11570.00	34.4 AV	54.0	-19.6	3.31 H	221	20.3	14.1
5	#17355.00	52.1 PK	74.0	-21.9	1.57 H	66	34.3	17.8
6	#17355.00	38.9 AV	54.0	-15.1	1.57 H	66	21.1	17.8
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	*5785.00	111.4 PK			1.59 V	107	106.8	4.6
2	*5785.00	102.9 AV			1.59 V	107	98.3	4.6
3	11570.00	49.9 PK	74.0	-24.1	3.98 V	301	35.8	14.1
4	11570.00	37.4 AV	54.0	-16.6	3.98 V	301	23.3	14.1
5	#17355.00	53.2 PK	74.0	-20.8	1.46 V	88	35.4	17.8
6	#17355.00	40.2 AV	54.0	-13.8	1.46 V	88	22.4	17.8

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	111.5 PK			1.18 H	270	106.7	4.8
2	*5825.00	102.2 AV			1.18 H	270	97.4	4.8
3	11650.00	47.0 PK	74.0	-27.0	3.38 H	229	33.0	14.0
4	11650.00	34.5 AV	54.0	-19.5	3.38 H	229	20.5	14.0
5	#17475.00	51.3 PK	74.0	-22.7	1.67 H	52	32.3	19.0
6	#17475.00	38.4 AV	54.0	-15.6	1.67 H	52	19.4	19.0
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	*5825.00	110.9 PK			1.48 V	81	106.1	4.8
2	*5825.00	100.5 AV			1.48 V	81	95.7	4.8
3	11650.00	49.9 PK	74.0	-24.1	3.89 V	310	35.9	14.0
4	11650.00	37.8 AV	54.0	-16.2	3.89 V	310	23.8	14.0
5	#17475.00	53.2 PK	74.0	-20.8	1.57 V	89	34.2	19.0
6	#17475.00	40.5 AV	54.0	-13.5	1.57 V	89	21.5	19.0

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.

802.11ac (VHT40)

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

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	63.9 PK	74.0	-10.1	2.24 H	48	59.6	4.3
2	5150.00	52.9 AV	54.0	-1.1	2.24 H	48	48.6	4.3
3	*5190.00	103.9 PK			2.24 H	48	99.8	4.1
4	*5190.00	93.9 AV			2.24 H	48	89.8	4.1
5	5350.00	48.3 PK	74.0	-25.7	2.24 H	48	44.3	4.0
6	5350.00	35.4 AV	54.0	-18.6	2.24 H	48	31.4	4.0
7	#10380.00	45.6 PK	74.0	-28.4	1.60 H	158	32.2	13.4
8	#10380.00	33.7 AV	54.0	-20.3	1.60 H	158	20.3	13.4
9	15570.00	45.3 PK	74.0	-28.7	1.38 H	220	32.3	13.0
10	15570.00	32.9 AV	54.0	-21.1	1.38 H	220	19.9	13.0
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	5150.00	57.8 PK	74.0	-16.2	3.59 V	338	53.5	4.3
2	5150.00	40.0 AV	54.0	-14.0	3.59 V	338	35.7	4.3
3	*5190.00	100.8 PK			3.59 V	338	96.7	4.1
4	*5190.00	89.6 AV			3.59 V	338	85.5	4.1
5	5350.00	46.2 PK	74.0	-27.8	3.59 V	338	42.2	4.0
6	5350.00	34.5 AV	54.0	-19.5	3.59 V	338	30.5	4.0
7	#10380.00	43.1 PK	74.0	-30.9	1.53 V	64	29.7	13.4
8	#10380.00	32.1 AV	54.0	-21.9	1.53 V	64	18.7	13.4
9	15570.00	44.8 PK	74.0	-29.2	1.46 V	358	31.8	13.0
10	15570.00	32.3 AV	54.0	-21.7	1.46 V	358	19.3	13.0

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	51.9 PK	74.0	-22.1	1.01 H	46	47.6	4.3
2	5150.00	38.9 AV	54.0	-15.1	1.01 H	46	34.6	4.3
3	*5230.00	106.6 PK			1.01 H	46	102.7	3.9
4	*5230.00	97.5 AV			1.01 H	46	93.6	3.9
5	5350.00	48.5 PK	74.0	-25.5	1.01 H	46	44.5	4.0
6	5350.00	35.8 AV	54.0	-18.2	1.01 H	46	31.8	4.0
7	#10460.00	45.1 PK	74.0	-28.9	1.52 H	169	31.2	13.9
8	#10460.00	33.0 AV	54.0	-21.0	1.52 H	169	19.1	13.9
9	15690.00	45.7 PK	74.0	-28.3	1.42 H	224	32.1	13.6
10	15690.00	33.5 AV	54.0	-20.5	1.42 H	224	19.9	13.6
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	50.2 PK	74.0	-23.8	3.55 V	360	45.9	4.3
2	5150.00	37.5 AV	54.0	-16.5	3.55 V	360	33.2	4.3
3	*5230.00	104.0 PK			3.55 V	360	100.1	3.9
4	*5230.00	93.5 AV			3.55 V	360	89.6	3.9
5	5350.00	46.8 PK	74.0	-27.2	3.55 V	360	42.8	4.0
6	5350.00	34.6 AV	54.0	-19.4	3.55 V	360	30.6	4.0
7	#10460.00	42.2 PK	74.0	-31.8	1.45 V	88	28.3	13.9
8	#10460.00	31.6 AV	54.0	-22.4	1.45 V	88	17.7	13.9
9	15690.00	45.5 PK	74.0	-28.5	1.35 V	357	31.9	13.6
10	15690.00	32.7 AV	54.0	-21.3	1.35 V	357	19.1	13.6

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

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	51.8 PK	74.0	-22.2	1.02 H	49	47.5	4.3
2	5150.00	38.8 AV	54.0	-15.2	1.02 H	49	34.5	4.3
3	*5270.00	105.3 PK			1.02 H	49	101.5	3.8
4	*5270.00	96.2 AV			1.02 H	49	92.4	3.8
5	#10540.00	45.5 PK	74.0	-28.5	1.62 H	157	31.7	13.8
6	#10540.00	33.3 AV	54.0	-20.7	1.62 H	157	19.5	13.8
7	15810.00	45.2 PK	74.0	-28.8	1.45 H	210	31.8	13.4
8	15810.00	33.1 AV	54.0	-20.9	1.45 H	210	19.7	13.4
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	50.2 PK	74.0	-23.8	3.55 V	353	45.9	4.3
2	5150.00	37.6 AV	54.0	-16.4	3.55 V	353	33.3	4.3
3	*5270.00	103.5 PK			3.55 V	353	99.7	3.8
4	*5270.00	92.8 AV			3.55 V	353	89.0	3.8
5	#10540.00	42.5 PK	74.0	-31.5	1.50 V	79	28.7	13.8
6	#10540.00	31.5 AV	54.0	-22.5	1.50 V	79	17.7	13.8
7	15810.00	45.5 PK	74.0	-28.5	1.47 V	341	32.1	13.4
8	15810.00	32.7 AV	54.0	-21.3	1.47 V	341	19.3	13.4

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

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	103.1 PK			1.04 H	248	99.2	3.9
2	*5310.00	93.9 AV			1.04 H	248	90.0	3.9
3	5350.00	65.2 PK	74.0	-8.8	1.04 H	248	61.2	4.0
4	5350.00	53.8 AV	54.0	-0.2	1.04 H	248	49.8	4.0
5	10620.00	45.7 PK	74.0	-28.3	1.59 H	168	32.2	13.5
6	10620.00	33.6 AV	54.0	-20.4	1.59 H	168	20.1	13.5
7	15930.00	45.1 PK	74.0	-28.9	1.36 H	217	32.4	12.7
8	15930.00	32.7 AV	54.0	-21.3	1.36 H	217	20.0	12.7
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	*5310.00	100.4 PK			3.54 V	354	96.5	3.9
2	*5310.00	89.5 AV			3.54 V	354	85.6	3.9
3	5350.00	53.1 PK	74.0	-20.9	3.54 V	354	49.1	4.0
4	5350.00	40.3 AV	54.0	-13.7	3.54 V	354	36.3	4.0
5	10620.00	42.3 PK	74.0	-31.7	1.54 V	79	28.8	13.5
6	10620.00	31.6 AV	54.0	-22.4	1.54 V	79	18.1	13.5
7	15930.00	45.1 PK	74.0	-28.9	1.39 V	356	32.4	12.7
8	15930.00	32.7 AV	54.0	-21.3	1.39 V	356	20.0	12.7

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.

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	67.1 PK	74.0	-6.9	1.04 H	49	62.8	4.3
2	**#5470.00**	**53.9 AV**	**54.0**	**-0.1**	**1.04 H**	**49**	**49.6**	**4.3**
3	*5510.00	103.2 PK			1.04 H	49	98.9	4.3
4	*5510.00	94.1 AV			1.04 H	49	89.8	4.3
5	11020.00	45.2 PK	74.0	-28.8	1.56 H	165	31.4	13.8
6	11020.00	33.1 AV	54.0	-20.9	1.56 H	165	19.3	13.8
7	#16530.00	45.4 PK	74.0	-28.6	1.36 H	209	29.6	15.8
8	#16530.00	33.3 AV	54.0	-20.7	1.36 H	209	17.5	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	#5470.00	53.2 PK	74.0	-20.8	3.61 V	349	48.9	4.3
2	#5470.00	41.2 AV	54.0	-12.8	3.61 V	349	36.9	4.3
3	*5510.00	100.6 PK			3.61 V	349	96.3	4.3
4	*5510.00	89.6 AV			3.61 V	349	85.3	4.3
5	11020.00	42.1 PK	74.0	-31.9	1.54 V	73	28.3	13.8
6	11020.00	31.3 AV	54.0	-22.7	1.54 V	73	17.5	13.8
7	#16530.00	45.1 PK	74.0	-28.9	1.39 V	344	29.3	15.8
8	#16530.00	32.6 AV	54.0	-21.4	1.39 V	344	16.8	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 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	107.2 PK			1.01 H	58	102.9	4.3
2	*5550.00	97.9 AV			1.01 H	58	93.6	4.3
3	11100.00	45.3 PK	74.0	-28.7	1.55 H	157	31.5	13.8
4	11100.00	33.3 AV	54.0	-20.7	1.55 H	157	19.5	13.8
5	#16650.00	45.9 PK	74.0	-28.1	1.42 H	236	29.4	16.5
6	#16650.00	33.3 AV	54.0	-20.7	1.42 H	236	16.8	16.5
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	*5550.00	103.7 PK			3.49 V	360	99.4	4.3
2	*5550.00	93.1 AV			3.49 V	360	88.8	4.3
3	11100.00	42.3 PK	74.0	-31.7	1.52 V	84	28.5	13.8
4	11100.00	31.4 AV	54.0	-22.6	1.52 V	84	17.6	13.8
5	#16650.00	45.7 PK	74.0	-28.3	1.43 V	346	29.2	16.5
6	#16650.00	33.2 AV	54.0	-20.8	1.43 V	346	16.7	16.5

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

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	109.1 PK			1.04 H	242	104.7	4.4
2	*5670.00	99.8 AV			1.04 H	242	95.4	4.4
3	#5725.00	67.8 PK	74.0	-6.2	1.04 H	242	63.3	4.5
4	#5725.00	53.8 AV	54.0	-0.2	1.04 H	242	49.3	4.5
5	11340.00	45.7 PK	74.0	-28.3	1.52 H	160	31.6	14.1
6	11340.00	33.6 AV	54.0	-20.4	1.52 H	160	19.5	14.1
7	#17010.00	45.0 PK	74.0	-29.0	1.42 H	219	27.5	17.5
8	#17010.00	32.7 AV	54.0	-21.3	1.42 H	219	15.2	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	*5670.00	102.3 PK			3.48 V	355	97.9	4.4
2	*5670.00	91.3 AV			3.48 V	355	86.9	4.4
3	#5725.00	53.8 PK	74.0	-20.2	3.48 V	355	49.3	4.5
4	#5725.00	41.3 AV	54.0	-12.7	3.48 V	355	36.8	4.5
5	11340.00	42.7 PK	74.0	-31.3	1.52 V	60	28.6	14.1
6	11340.00	31.9 AV	54.0	-22.1	1.52 V	60	17.8	14.1
7	#17010.00	45.3 PK	74.0	-28.7	1.42 V	360	27.8	17.5
8	#17010.00	33.1 AV	54.0	-20.9	1.42 V	360	15.6	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 142	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	60.7 PK	74.0	-13.3	1.02 H	155	56.4	4.3
2	#5470.00	42.2 AV	54.0	-11.8	1.02 H	155	37.9	4.3
3	*5710.00	108.3 PK			1.02 H	155	103.8	4.5
4	*5710.00	98.3 AV			1.02 H	155	93.8	4.5
5	#5850.00	58.9 PK	74.0	-15.1	1.02 H	155	54.1	4.8
6	#5850.00	42.0 AV	54.0	-12.0	1.02 H	155	37.2	4.8
7	11420.00	45.6 PK	74.0	-28.4	1.51 H	151	31.3	14.3
8	11420.00	33.2 AV	54.0	-20.8	1.51 H	151	18.9	14.3
9	#17130.00	45.0 PK	74.0	-29.0	1.40 H	206	27.8	17.2
10	#17130.00	32.6 AV	54.0	-21.4	1.40 H	206	15.4	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	#5470.00	59.0 PK	74.0	-15.0	3.44 V	356	54.7	4.3
2	#5470.00	41.9 AV	54.0	-12.1	3.44 V	356	37.6	4.3
3	*5710.00	104.8 PK			3.44 V	356	100.3	4.5
4	*5710.00	94.6 AV			3.44 V	356	90.1	4.5
5	#5850.00	57.1 PK	74.0	-16.9	3.44 V	356	52.3	4.8
6	#5850.00	40.0 AV	54.0	-14.0	3.44 V	356	35.2	4.8
7	11420.00	42.4 PK	74.0	-31.6	1.44 V	67	28.1	14.3
8	11420.00	31.8 AV	54.0	-22.2	1.44 V	67	17.5	14.3
9	#17130.00	45.7 PK	74.0	-28.3	1.42 V	356	28.5	17.2
10	#17130.00	33.0 AV	54.0	-21.0	1.42 V	356	15.8	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 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5755.00	106.8 PK			1.05 H	244	102.2	4.6
2	*5755.00	96.3 AV			1.05 H	244	91.7	4.6
3	11510.00	47.1 PK	74.0	-26.9	3.36 H	239	33.0	14.1
4	11510.00	34.6 AV	54.0	-19.4	3.36 H	239	20.5	14.1
5	#17265.00	52.0 PK	74.0	-22.0	1.67 H	68	34.9	17.1
6	#17265.00	38.8 AV	54.0	-15.2	1.67 H	68	21.7	17.1
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	*5755.00	104.3 PK			1.50 V	73	99.7	4.6
2	*5755.00	95.3 AV			1.50 V	73	90.7	4.6
3	11510.00	49.2 PK	74.0	-24.8	3.94 V	301	35.1	14.1
4	11510.00	37.1 AV	54.0	-16.9	3.94 V	301	23.0	14.1
5	#17265.00	53.1 PK	74.0	-20.9	1.55 V	87	36.0	17.1
6	#17265.00	40.4 AV	54.0	-13.6	1.55 V	87	23.3	17.1

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	108.8 PK			1.04 H	244	104.1	4.7
2	*5795.00	98.9 AV			1.04 H	244	94.2	4.7
3	11590.00	47.5 PK	74.0	-26.5	3.39 H	224	33.4	14.1
4	11590.00	35.0 AV	54.0	-19.0	3.39 H	224	20.9	14.1
5	#17385.00	51.4 PK	74.0	-22.6	1.68 H	66	33.4	18.0
6	#17385.00	38.5 AV	54.0	-15.5	1.68 H	66	20.5	18.0
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	*5795.00	105.9 PK			1.55 V	58	101.2	4.7
2	*5795.00	97.7 AV			1.55 V	58	93.0	4.7
3	11590.00	49.8 PK	74.0	-24.2	3.88 V	300	35.7	14.1
4	11590.00	37.7 AV	54.0	-16.3	3.88 V	300	23.6	14.1
5	#17385.00	53.6 PK	74.0	-20.4	1.56 V	80	35.6	18.0
6	#17385.00	40.5 AV	54.0	-13.5	1.56 V	80	22.5	18.0

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.

802.11ac (VHT80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.0 PK	74.0	-10.0	1.04 H	52	59.7	4.3
2	5150.00	53.8 AV	54.0	-0.2	1.04 H	52	49.5	4.3
3	*5210.00	99.5 PK			1.04 H	52	95.4	4.1
4	*5210.00	89.8 AV			1.04 H	52	85.7	4.1
5	5350.00	52.1 PK	74.0	-21.9	1.04 H	52	48.1	4.0
6	5350.00	39.8 AV	54.0	-14.2	1.04 H	52	35.8	4.0
7	#10420.00	44.9 PK	74.0	-29.1	1.61 H	174	31.3	13.6
8	#10420.00	32.8 AV	54.0	-21.2	1.61 H	174	19.2	13.6
9	15630.00	45.6 PK	74.0	-28.4	1.40 H	221	32.3	13.3
10	15630.00	33.4 AV	54.0	-20.6	1.40 H	221	20.1	13.3
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	58.0 PK	74.0	-16.0	2.55 V	276	53.7	4.3
2	5150.00	40.2 AV	54.0	-13.8	2.55 V	276	35.9	4.3
3	*5210.00	96.3 PK			2.55 V	276	92.2	4.1
4	*5210.00	85.5 AV			2.55 V	276	81.4	4.1
5	5350.00	46.1 PK	74.0	-27.9	2.55 V	276	42.1	4.0
6	5350.00	34.5 AV	54.0	-19.5	2.55 V	276	30.5	4.0
7	#10420.00	42.2 PK	74.0	-31.8	1.60 V	88	28.6	13.6
8	#10420.00	31.1 AV	54.0	-22.9	1.60 V	88	17.5	13.6
9	15630.00	44.7 PK	74.0	-29.3	1.37 V	342	31.4	13.3
10	15630.00	32.5 AV	54.0	-21.5	1.37 V	342	19.2	13.3

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	52.1 PK	74.0	-21.9	1.03 H	53	47.8	4.3
2	5150.00	40.4 AV	54.0	-13.6	1.03 H	53	36.1	4.3
3	*5290.00	102.0 PK			1.03 H	53	98.1	3.9
4	*5290.00	91.7 AV			1.03 H	53	87.8	3.9
5	5350.00	68.2 PK	74.0	-5.8	1.03 H	53	64.2	4.0
6	**5350.00**	**53.9 AV**	**54.0**	**-0.1**	**1.03 H**	**53**	**49.9**	**4.0**
7	#10580.00	44.7 PK	74.0	-29.3	1.61 H	175	31.1	13.6
8	#10580.00	32.8 AV	54.0	-21.2	1.61 H	175	19.2	13.6
9	15870.00	44.9 PK	74.0	-29.1	1.39 H	211	32.1	12.8
10	15870.00	33.0 AV	54.0	-21.0	1.39 H	211	20.2	12.8
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	5150.00	45.8 PK	74.0	-28.2	2.55 V	289	41.5	4.3
2	5150.00	34.4 AV	54.0	-19.6	2.55 V	289	30.1	4.3
3	*5290.00	96.1 PK			2.55 V	289	92.2	3.9
4	*5290.00	85.5 AV			2.55 V	289	81.6	3.9
5	5350.00	58.2 PK	74.0	-15.8	2.55 V	289	54.2	4.0
6	5350.00	40.5 AV	54.0	-13.5	2.55 V	289	36.5	4.0
7	#10580.00	42.7 PK	74.0	-31.3	1.59 V	74	29.1	13.6
8	#10580.00	31.8 AV	54.0	-22.2	1.59 V	74	18.2	13.6
9	15870.00	44.8 PK	74.0	-29.2	1.43 V	329	32.0	12.8
10	15870.00	32.3 AV	54.0	-21.7	1.43 V	329	19.5	12.8

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	67.9 PK	74.0	-6.1	1.05 H	251	63.6	4.3
2	#5470.00	53.6 AV	54.0	-0.4	1.05 H	251	49.3	4.3
3	*5530.00	100.2 PK			1.05 H	251	95.9	4.3
4	*5530.00	90.6 AV			1.05 H	251	86.3	4.3
5	#5725.00	48.8 PK	74.0	-25.2	1.05 H	251	44.3	4.5
6	#5725.00	36.6 AV	54.0	-17.4	1.05 H	251	32.1	4.5
7	11060.00	45.7 PK	74.0	-28.3	1.53 H	163	31.9	13.8
8	11060.00	33.4 AV	54.0	-20.6	1.53 H	163	19.6	13.8
9	#16590.00	45.3 PK	74.0	-28.7	1.41 H	219	28.6	16.7
10	#16590.00	33.0 AV	54.0	-21.0	1.41 H	219	16.3	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	#5470.00	58.3 PK	74.0	-15.7	2.54 V	281	54.0	4.3
2	#5470.00	40.6 AV	54.0	-13.4	2.54 V	281	36.3	4.3
3	*5530.00	95.9 PK			2.54 V	281	91.6	4.3
4	*5530.00	85.4 AV			2.54 V	281	81.1	4.3
5	#5725.00	46.2 PK	74.0	-27.8	2.54 V	281	41.7	4.5
6	#5725.00	35.2 AV	54.0	-18.8	2.54 V	281	30.7	4.5
7	11060.00	42.0 PK	74.0	-32.0	1.53 V	64	28.2	13.8
8	11060.00	31.2 AV	54.0	-22.8	1.53 V	64	17.4	13.8
9	#16590.00	44.8 PK	74.0	-29.2	1.38 V	349	28.1	16.7
10	#16590.00	32.4 AV	54.0	-21.6	1.38 V	349	15.7	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 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5610.00	106.5 PK			1.05 H	255	102.1	4.4
2	*5610.00	96.6 AV			1.05 H	255	92.2	4.4
3	#5725.00	48.3 PK	74.0	-25.7	1.05 H	255	43.8	4.5
4	#5725.00	36.4 AV	54.0	-17.6	1.05 H	255	31.9	4.5
5	11220.00	44.6 PK	74.0	-29.4	1.53 H	160	30.9	13.7
6	11220.00	32.7 AV	54.0	-21.3	1.53 H	160	19.0	13.7
7	#16830.00	45.7 PK	74.0	-28.3	1.41 H	216	28.7	17.0
8	#16830.00	33.4 AV	54.0	-20.6	1.41 H	216	16.4	17.0
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	*5610.00	101.9 PK			2.98 V	288	97.5	4.4
2	*5610.00	91.4 AV			2.98 V	288	87.0	4.4
3	#5725.00	45.9 PK	74.0	-28.1	2.98 V	288	41.4	4.5
4	#5725.00	34.9 AV	54.0	-19.1	2.98 V	288	30.4	4.5
5	11220.00	42.1 PK	74.0	-31.9	1.58 V	79	28.4	13.7
6	11220.00	31.4 AV	54.0	-22.6	1.58 V	79	17.7	13.7
7	#16830.00	45.5 PK	74.0	-28.5	1.44 V	357	28.5	17.0
8	#16830.00	32.7 AV	54.0	-21.3	1.44 V	357	15.7	17.0

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	60.2 PK	74.0	-13.8	1.11 H	264	55.9	4.3
2	#5470.00	42.0 AV	54.0	-12.0	1.11 H	264	37.7	4.3
3	*5690.00	106.2 PK			1.11 H	264	101.8	4.4
4	*5690.00	96.4 AV			1.11 H	264	92.0	4.4
5	#5850.00	58.7 PK	74.0	-15.3	1.11 H	264	53.9	4.8
6	#5850.00	41.3 AV	54.0	-12.7	1.11 H	264	36.5	4.8
7	11380.00	45.3 PK	74.0	-28.7	1.61 H	177	31.0	14.3
8	11380.00	33.4 AV	54.0	-20.6	1.61 H	177	19.1	14.3
9	#17070.00	45.2 PK	74.0	-28.8	1.32 H	200	27.9	17.3
10	#17070.00	32.9 AV	54.0	-21.1	1.32 H	200	15.6	17.3
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	#5470.00	58.8 PK	74.0	-15.2	2.95 V	297	54.5	4.3
2	#5470.00	41.9 AV	54.0	-12.1	2.95 V	297	37.6	4.3
3	*5690.00	101.7 PK			2.95 V	297	97.3	4.4
4	*5690.00	91.3 AV			2.95 V	297	86.9	4.4
5	#5850.00	57.7 PK	74.0	-16.3	2.95 V	297	52.9	4.8
6	#5850.00	40.4 AV	54.0	-13.6	2.95 V	297	35.6	4.8
7	11380.00	42.3 PK	74.0	-31.7	1.58 V	85	28.0	14.3
8	11380.00	31.6 AV	54.0	-22.4	1.58 V	85	17.3	14.3
9	#17070.00	45.2 PK	74.0	-28.8	1.41 V	345	27.9	17.3
10	#17070.00	32.5 AV	54.0	-21.5	1.41 V	345	15.2	17.3

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

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	*5775.00	103.3 PK			1.06 H	245	98.7	4.6
2	*5775.00	93.8 AV			1.06 H	245	89.2	4.6
3	11550.00	46.6 PK	74.0	-27.4	3.37 H	228	32.5	14.1
4	11550.00	34.5 AV	54.0	-19.5	3.37 H	228	20.4	14.1
5	#17325.00	52.0 PK	74.0	-22.0	1.65 H	58	34.6	17.4
6	#17325.00	38.7 AV	54.0	-15.3	1.65 H	58	21.3	17.4
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	*5775.00	102.1 PK			1.16 V	263	97.5	4.6
2	*5775.00	92.0 AV			1.16 V	263	87.4	4.6
3	11550.00	50.0 PK	74.0	-24.0	3.95 V	309	35.9	14.1
4	11550.00	37.5 AV	54.0	-16.5	3.95 V	309	23.4	14.1
5	#17325.00	53.4 PK	74.0	-20.6	1.49 V	101	36.0	17.4
6	#17325.00	40.7 AV	54.0	-13.3	1.49 V	101	23.3	17.4

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.

Below 1GHz Data

802.11a

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	44.10	26.1 QP	40.0	-13.9	1.00 H	321	33.8	-7.7
2	166.20	30.0 QP	43.5	-13.5	2.50 H	236	38.3	-8.3
3	200.30	31.1 QP	43.5	-12.4	1.00 H	100	42.5	-11.4
4	441.31	32.0 QP	46.0	-14.0	1.50 H	109	35.8	-3.8
5	600.63	28.6 QP	46.0	-17.4	2.50 H	138	29.0	-0.4
6	720.21	30.3 QP	46.0	-15.7	1.00 H	99	29.2	1.1
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	44.20	36.1 QP	40.0	-3.9	1.00 V	243	43.8	-7.7
2	138.40	32.5 QP	43.5	-11.0	1.50 V	10	40.8	-8.3
3	166.20	29.9 QP	43.5	-13.6	2.00 V	312	38.2	-8.3
4	200.00	30.2 QP	43.5	-13.3	2.50 V	150	41.6	-11.4
5	598.31	30.3 QP	46.0	-15.7	1.10 V	129	30.7	-0.4
6	796.47	24.2 QP	46.0	-21.8	2.00 V	155	21.8	2.4

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

4.1.8 Test Results (Mode 2)

Above 1GHz Data

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	5150.00	66.3 PK	74.0	-7.7	1.07 H	54	62.0	4.3
2	5150.00	49.6 AV	54.0	-4.4	1.07 H	54	45.3	4.3
3	*5180.00	109.5 PK			1.07 H	54	105.4	4.1
4	*5180.00	99.9 AV			1.07 H	54	95.8	4.1
5	#10360.00	45.3 PK	74.0	-28.7	1.54 H	172	32.0	13.3
6	#10360.00	33.5 AV	54.0	-20.5	1.54 H	172	20.2	13.3
7	15540.00	45.7 PK	74.0	-28.3	1.43 H	217	32.8	12.9
8	15540.00	33.3 AV	54.0	-20.7	1.43 H	217	20.4	12.9
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	5150.00	57.9 PK	74.0	-16.1	3.74 V	353	53.6	4.3
2	5150.00	41.0 AV	54.0	-13.0	3.74 V	353	36.7	4.3
3	*5180.00	105.6 PK			3.74 V	353	101.5	4.1
4	*5180.00	96.7 AV			3.74 V	353	92.6	4.1
5	#10360.00	43.2 PK	74.0	-30.8	1.57 V	109	29.9	13.3
6	#10360.00	31.9 AV	54.0	-22.1	1.57 V	109	18.6	13.3
7	15540.00	45.4 PK	74.0	-28.6	1.48 V	310	32.5	12.9
8	15540.00	32.6 AV	54.0	-21.4	1.48 V	310	19.7	12.9

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

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	107.7 PK			3.67 H	346	103.7	4.0
2	*5200.00	99.9 AV			3.67 H	346	95.9	4.0
3	#10400.00	43.4 PK	74.0	-30.6	1.57 H	91	29.9	13.5
4	#10400.00	32.1 AV	54.0	-21.9	1.57 H	91	18.6	13.5
5	15600.00	45.6 PK	74.0	-28.4	1.50 H	335	32.5	13.1
6	15600.00	32.6 AV	54.0	-21.4	1.50 H	335	19.5	13.1
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	*5200.00	107.7 PK			3.67 V	346	103.7	4.0
2	*5200.00	99.9 AV			3.67 V	346	95.9	4.0
3	#10400.00	43.4 PK	74.0	-30.6	1.57 V	91	29.9	13.5
4	#10400.00	32.1 AV	54.0	-21.9	1.57 V	91	18.6	13.5
5	15600.00	45.6 PK	74.0	-28.4	1.50 V	335	32.5	13.1
6	15600.00	32.6 AV	54.0	-21.4	1.50 V	335	19.5	13.1

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

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	111.8 PK			1.11 H	43	107.9	3.9
2	*5240.00	102.5 AV			1.11 H	43	98.6	3.9
3	5350.00	47.6 PK	74.0	-26.4	1.11 H	43	43.6	4.0
4	5350.00	36.1 AV	54.0	-17.9	1.11 H	43	32.1	4.0
5	#10480.00	45.3 PK	74.0	-28.7	1.62 H	161	31.3	14.0
6	#10480.00	33.4 AV	54.0	-20.6	1.62 H	161	19.4	14.0
7	15720.00	45.4 PK	74.0	-28.6	1.50 H	249	31.9	13.5
8	15720.00	32.8 AV	54.0	-21.2	1.50 H	249	19.3	13.5
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	108.6 PK			3.65 V	346	104.7	3.9
2	*5240.00	100.4 AV			3.65 V	346	96.5	3.9
3	5350.00	46.3 PK	74.0	-27.7	3.65 V	346	42.3	4.0
4	5350.00	35.2 AV	54.0	-18.8	3.65 V	346	31.2	4.0
5	#10480.00	42.8 PK	74.0	-31.2	1.53 V	95	28.8	14.0
6	#10480.00	32.1 AV	54.0	-21.9	1.53 V	95	18.1	14.0
7	15720.00	45.4 PK	74.0	-28.6	1.34 V	320	31.9	13.5
8	15720.00	33.0 AV	54.0	-21.0	1.34 V	320	19.5	13.5

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	58.8 PK	74.0	-15.2	1.13 H	31	54.5	4.3
2	5150.00	41.6 AV	54.0	-12.4	1.13 H	31	37.3	4.3
3	*5260.00	109.9 PK			1.13 H	31	106.1	3.8
4	*5260.00	101.6 AV			1.13 H	31	97.8	3.8
5	#10520.00	45.3 PK	74.0	-28.7	1.55 H	161	31.3	14.0
6	#10520.00	33.2 AV	54.0	-20.8	1.55 H	161	19.2	14.0
7	15780.00	45.6 PK	74.0	-28.4	1.45 H	244	32.0	13.6
8	15780.00	33.3 AV	54.0	-20.7	1.45 H	244	19.7	13.6
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	58.1 PK	74.0	-15.9	3.69 V	350	53.8	4.3
2	5150.00	40.5 AV	54.0	-13.5	3.69 V	350	36.2	4.3
3	*5260.00	106.9 PK			3.69 V	350	103.1	3.8
4	*5260.00	98.7 AV			3.69 V	350	94.9	3.8
5	#10520.00	42.6 PK	74.0	-31.4	1.50 V	111	28.6	14.0
6	#10520.00	31.5 AV	54.0	-22.5	1.50 V	111	17.5	14.0
7	15780.00	45.8 PK	74.0	-28.2	1.51 V	314	32.2	13.6
8	15780.00	32.8 AV	54.0	-21.2	1.51 V	314	19.2	13.6

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

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	110.9 PK			1.14 H	47	107.0	3.9
2	*5300.00	102.0 AV			1.14 H	47	98.1	3.9
3	10600.00	45.6 PK	74.0	-28.4	1.56 H	171	32.2	13.4
4	10600.00	33.9 AV	54.0	-20.1	1.56 H	171	20.5	13.4
5	15900.00	46.2 PK	74.0	-27.8	1.35 H	232	33.7	12.5
6	15900.00	34.0 AV	54.0	-20.0	1.35 H	232	21.5	12.5
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	*5300.00	108.2 PK			3.70 V	360	104.3	3.9
2	*5300.00	100.1 AV			3.70 V	360	96.2	3.9
3	10600.00	42.9 PK	74.0	-31.1	1.58 V	107	29.5	13.4
4	10600.00	31.8 AV	54.0	-22.2	1.58 V	107	18.4	13.4
5	15900.00	45.5 PK	74.0	-28.5	1.36 V	319	33.0	12.5
6	15900.00	32.8 AV	54.0	-21.2	1.36 V	319	20.3	12.5

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.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	112.0 PK			1.08 H	245	108.1	3.9
2	*5320.00	102.0 AV			1.08 H	245	98.1	3.9
3	5350.00	60.8 PK	74.0	-13.2	1.08 H	245	56.8	4.0
4	5350.00	53.1 AV	54.0	-0.9	1.08 H	245	49.1	4.0
5	10640.00	45.3 PK	74.0	-28.7	1.63 H	164	31.7	13.6
6	10640.00	32.8 AV	54.0	-21.2	1.63 H	164	19.2	13.6
7	15960.00	45.6 PK	74.0	-28.4	1.54 H	210	32.7	12.9
8	15960.00	33.0 AV	54.0	-21.0	1.54 H	210	20.1	12.9
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	*5320.00	105.4 PK			3.61 V	336	101.5	3.9
2	*5320.00	96.9 AV			3.61 V	336	93.0	3.9
3	5350.00	58.4 PK	74.0	-15.6	3.61 V	336	54.4	4.0
4	5350.00	41.1 AV	54.0	-12.9	3.61 V	336	37.1	4.0
5	10640.00	43.4 PK	74.0	-30.6	1.59 V	122	29.8	13.6
6	10640.00	32.1 AV	54.0	-21.9	1.59 V	122	18.5	13.6
7	15960.00	46.8 PK	74.0	-27.2	1.52 V	331	33.9	12.9
8	15960.00	33.7 AV	54.0	-20.3	1.52 V	331	20.8	12.9

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	67.5 PK	74.0	-6.5	1.06 H	251	63.2	4.3
2	#5470.00	51.8 AV	54.0	-2.2	1.06 H	251	47.5	4.3
3	*5500.00	110.6 PK			1.06 H	251	106.3	4.3
4	*5500.00	101.9 AV			1.06 H	251	97.6	4.3
5	11000.00	45.3 PK	74.0	-28.7	1.55 H	176	31.4	13.9
6	11000.00	33.4 AV	54.0	-20.6	1.55 H	176	19.5	13.9
7	#16500.00	45.4 PK	74.0	-28.6	1.38 H	232	29.8	15.6
8	#16500.00	32.7 AV	54.0	-21.3	1.38 H	232	17.1	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	#5470.00	58.2 PK	74.0	-15.8	3.67 V	240	53.9	4.3
2	#5470.00	40.7 AV	54.0	-13.3	3.67 V	240	36.4	4.3
3	*5500.00	105.8 PK			3.67 V	240	101.5	4.3
4	*5500.00	97.8 AV			3.67 V	240	93.5	4.3
5	11000.00	43.7 PK	74.0	-30.3	1.48 V	111	29.8	13.9
6	11000.00	32.6 AV	54.0	-21.4	1.48 V	111	18.7	13.9
7	#16500.00	45.3 PK	74.0	-28.7	1.37 V	318	29.7	15.6
8	#16500.00	32.9 AV	54.0	-21.1	1.37 V	318	17.3	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 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	111.2 PK			1.18 H	53	106.8	4.4
2	*5580.00	102.1 AV			1.18 H	53	97.7	4.4
3	11160.00	45.1 PK	74.0	-28.9	1.58 H	170	31.4	13.7
4	11160.00	33.2 AV	54.0	-20.8	1.58 H	170	19.5	13.7
5	#16740.00	46.2 PK	74.0	-27.8	1.43 H	235	29.6	16.6
6	#16740.00	34.0 AV	54.0	-20.0	1.43 H	235	17.4	16.6
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	*5580.00	108.2 PK			3.60 V	360	103.8	4.4
2	*5580.00	99.9 AV			3.60 V	360	95.5	4.4
3	11160.00	42.7 PK	74.0	-31.3	1.55 V	118	29.0	13.7
4	11160.00	31.8 AV	54.0	-22.2	1.55 V	118	18.1	13.7
5	#16740.00	46.3 PK	74.0	-27.7	1.39 V	327	29.7	16.6
6	#16740.00	33.4 AV	54.0	-20.6	1.39 V	327	16.8	16.6

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

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	111.3 PK			1.04 H	58	106.8	4.5
2	*5700.00	101.6 AV			1.04 H	58	97.1	4.5
3	#5725.00	68.1 PK	74.0	-5.9	1.04 H	58	63.6	4.5
4	#5725.00	53.7 AV	54.0	-0.3	1.04 H	58	49.2	4.5
5	11400.00	45.4 PK	74.0	-28.6	1.64 H	159	30.9	14.5
6	11400.00	33.9 AV	54.0	-20.1	1.64 H	159	19.4	14.5
7	#17100.00	45.6 PK	74.0	-28.4	1.42 H	207	28.3	17.3
8	#17100.00	33.1 AV	54.0	-20.9	1.42 H	207	15.8	17.3
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	*5700.00	105.1 PK			3.71 V	360	100.6	4.5
2	*5700.00	95.3 AV			3.71 V	360	90.8	4.5
3	#5725.00	58.2 PK	74.0	-15.8	3.71 V	360	53.7	4.5
4	#5725.00	41.1 AV	54.0	-12.9	3.71 V	360	36.6	4.5
5	11400.00	42.8 PK	74.0	-31.2	1.51 V	102	28.3	14.5
6	11400.00	31.9 AV	54.0	-22.1	1.51 V	102	17.4	14.5
7	#17100.00	45.9 PK	74.0	-28.1	1.40 V	304	28.6	17.3
8	#17100.00	33.2 AV	54.0	-20.8	1.40 V	304	15.9	17.3

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	60.2 PK	74.0	-13.8	1.09 H	14	55.9	4.3
2	#5470.00	42.8 AV	54.0	-11.2	1.09 H	14	38.5	4.3
3	*5720.00	112.0 PK			1.07 H	37	107.5	4.5
4	*5720.00	103.0 AV			1.07 H	37	98.5	4.5
5	#5850.00	58.7 PK	74.0	-15.3	1.07 H	37	53.9	4.8
6	#5850.00	41.0 AV	54.0	-13.0	1.07 H	37	36.2	4.8
7	11440.00	45.6 PK	74.0	-28.4	1.59 H	174	31.4	14.2
8	11440.00	33.3 AV	54.0	-20.7	1.59 H	174	19.1	14.2
9	#17160.00	45.2 PK	74.0	-28.8	1.35 H	216	28.3	16.9
10	#17160.00	33.1 AV	54.0	-20.9	1.35 H	216	16.2	16.9
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	#5470.00	57.8 PK	74.0	-16.2	3.64 V	323	53.5	4.3
2	#5470.00	41.1 AV	54.0	-12.9	3.64 V	323	36.8	4.3
3	*5720.00	109.0 PK			3.71 V	334	104.5	4.5
4	*5720.00	101.2 AV			3.71 V	334	96.7	4.5
5	#5850.00	56.8 PK	74.0	-17.2	3.71 V	334	52.0	4.8
6	#5850.00	40.0 AV	54.0	-14.0	3.71 V	334	35.2	4.8
7	11440.00	43.7 PK	74.0	-30.3	1.54 V	109	29.5	14.2
8	11440.00	33.1 AV	54.0	-20.9	1.54 V	109	18.9	14.2
9	#17160.00	45.7 PK	74.0	-28.3	1.44 V	304	28.8	16.9
10	#17160.00	32.9 AV	54.0	-21.1	1.44 V	304	16.0	16.9

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

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	*5745.00	109.1 PK			1.35 H	112	104.5	4.6
2	*5745.00	99.3 AV			1.35 H	112	94.7	4.6
3	11490.00	46.9 PK	74.0	-27.1	3.30 H	247	32.8	14.1
4	11490.00	34.7 AV	54.0	-19.3	3.30 H	247	20.6	14.1
5	#17235.00	51.5 PK	74.0	-22.5	1.62 H	53	34.6	16.9
6	#17235.00	38.2 AV	54.0	-15.8	1.62 H	53	21.3	16.9
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	*5745.00	107.0 PK			3.11 V	288	102.4	4.6
2	*5745.00	97.5 AV			3.11 V	288	92.9	4.6
3	11490.00	50.5 PK	74.0	-23.5	3.88 V	315	36.4	14.1
4	11490.00	37.9 AV	54.0	-16.1	3.88 V	315	23.8	14.1
5	#17235.00	53.5 PK	74.0	-20.5	1.47 V	96	36.6	16.9
6	#17235.00	40.9 AV	54.0	-13.1	1.47 V	96	24.0	16.9

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	109.3 PK			1.31 H	121	104.7	4.6
2	*5785.00	99.6 AV			1.31 H	121	95.0	4.6
3	11570.00	47.2 PK	74.0	-26.8	3.37 H	228	33.1	14.1
4	11570.00	34.5 AV	54.0	-19.5	3.37 H	228	20.4	14.1
5	#17355.00	52.3 PK	74.0	-21.7	1.63 H	85	34.5	17.8
6	#17355.00	39.0 AV	54.0	-15.0	1.63 H	85	21.2	17.8
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	*5785.00	107.5 PK			2.97 V	287	102.9	4.6
2	*5785.00	98.0 AV			2.97 V	287	93.4	4.6
3	11570.00	49.7 PK	74.0	-24.3	3.96 V	308	35.6	14.1
4	11570.00	37.5 AV	54.0	-16.5	3.96 V	308	23.4	14.1
5	#17355.00	52.9 PK	74.0	-21.1	1.50 V	105	35.1	17.8
6	#17355.00	40.1 AV	54.0	-13.9	1.50 V	105	22.3	17.8

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	109.5 PK			1.32 H	131	104.7	4.8
2	*5825.00	99.3 AV			1.32 H	131	94.5	4.8
3	11650.00	46.7 PK	74.0	-27.3	3.32 H	235	32.7	14.0
4	11650.00	34.3 AV	54.0	-19.7	3.32 H	235	20.3	14.0
5	#17475.00	51.7 PK	74.0	-22.3	1.64 H	66	32.7	19.0
6	#17475.00	38.6 AV	54.0	-15.4	1.64 H	66	19.6	19.0
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	*5825.00	108.0 PK			3.95 V	293	103.2	4.8
2	*5825.00	98.6 AV			3.95 V	293	93.8	4.8
3	11650.00	49.9 PK	74.0	-24.1	3.89 V	321	35.9	14.0
4	11650.00	37.5 AV	54.0	-16.5	3.89 V	321	23.5	14.0
5	#17475.00	53.5 PK	74.0	-20.5	1.60 V	92	34.5	19.0
6	#17475.00	40.8 AV	54.0	-13.2	1.60 V	92	21.8	19.0

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.

802.11ac (VHT20)

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

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	61.6 PK	74.0	-12.4	1.07 H	49	57.3	4.3
2	5150.00	49.0 AV	54.0	-5.0	1.07 H	49	44.7	4.3
3	*5180.00	109.1 PK			1.07 H	49	105.0	4.1
4	*5180.00	99.5 AV			1.07 H	49	95.4	4.1
5	#10360.00	45.0 PK	74.0	-29.0	1.52 H	150	31.7	13.3
6	#10360.00	32.9 AV	54.0	-21.1	1.52 H	150	19.6	13.3
7	15540.00	45.1 PK	74.0	-28.9	1.45 H	207	32.2	12.9
8	15540.00	32.8 AV	54.0	-21.2	1.45 H	207	19.9	12.9
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	5150.00	57.2 PK	74.0	-16.8	3.73 V	360	52.9	4.3
2	5150.00	40.0 AV	54.0	-14.0	3.73 V	360	35.7	4.3
3	*5180.00	105.5 PK			3.73 V	360	101.4	4.1
4	*5180.00	97.0 AV			3.73 V	360	92.9	4.1
5	#10360.00	42.7 PK	74.0	-31.3	1.55 V	104	29.4	13.3
6	#10360.00	31.4 AV	54.0	-22.6	1.55 V	104	18.1	13.3
7	15540.00	45.5 PK	74.0	-28.5	1.42 V	319	32.6	12.9
8	15540.00	33.1 AV	54.0	-20.9	1.42 V	319	20.2	12.9

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	111.0 PK			2.30 H	32	107.0	4.0
2	*5200.00	101.1 AV			2.30 H	32	97.1	4.0
3	#10400.00	45.3 PK	74.0	-28.7	1.48 H	164	31.8	13.5
4	#10400.00	33.2 AV	54.0	-20.8	1.48 H	164	19.7	13.5
5	15600.00	45.3 PK	74.0	-28.7	1.49 H	253	32.2	13.1
6	15600.00	33.0 AV	54.0	-21.0	1.49 H	253	19.9	13.1
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	*5200.00	106.3 PK			3.74 V	352	102.3	4.0
2	*5200.00	98.2 AV			3.74 V	352	94.2	4.0
3	#10400.00	42.6 PK	74.0	-31.4	1.57 V	98	29.1	13.5
4	#10400.00	31.6 AV	54.0	-22.4	1.57 V	98	18.1	13.5
5	15600.00	45.6 PK	74.0	-28.4	1.40 V	339	32.5	13.1
6	15600.00	32.9 AV	54.0	-21.1	1.40 V	339	19.8	13.1

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

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	110.5 PK			2.24 H	67	106.6	3.9
2	*5240.00	101.3 AV			2.24 H	67	97.4	3.9
3	5350.00	48.7 PK	74.0	-25.3	2.24 H	67	44.7	4.0
4	5350.00	35.4 AV	54.0	-18.6	2.24 H	67	31.4	4.0
5	#10480.00	44.8 PK	74.0	-29.2	1.59 H	170	30.8	14.0
6	#10480.00	32.9 AV	54.0	-21.1	1.59 H	170	18.9	14.0
7	15720.00	46.2 PK	74.0	-27.8	1.39 H	250	32.7	13.5
8	15720.00	33.8 AV	54.0	-20.2	1.39 H	250	20.3	13.5
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	107.0 PK			3.72 V	337	103.1	3.9
2	*5240.00	98.8 AV			3.72 V	337	94.9	3.9
3	5350.00	46.9 PK	74.0	-27.1	3.72 V	337	42.9	4.0
4	5350.00	34.9 AV	54.0	-19.1	3.72 V	337	30.9	4.0
5	#10480.00	42.4 PK	74.0	-31.6	1.58 V	100	28.4	14.0
6	#10480.00	31.5 AV	54.0	-22.5	1.58 V	100	17.5	14.0
7	15720.00	46.2 PK	74.0	-27.8	1.41 V	347	32.7	13.5
8	15720.00	33.2 AV	54.0	-20.8	1.41 V	347	19.7	13.5

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	59.1 PK	74.0	-14.9	2.27 H	54	54.8	4.3
2	5150.00	40.9 AV	54.0	-13.1	2.27 H	54	36.6	4.3
3	*5260.00	110.0 PK			2.27 H	54	106.2	3.8
4	*5260.00	100.4 AV			2.27 H	54	96.6	3.8
5	#10520.00	45.7 PK	74.0	-28.3	1.63 H	167	31.7	14.0
6	#10520.00	33.4 AV	54.0	-20.6	1.63 H	167	19.4	14.0
7	15780.00	45.8 PK	74.0	-28.2	1.44 H	224	32.2	13.6
8	15780.00	33.3 AV	54.0	-20.7	1.44 H	224	19.7	13.6
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	57.7 PK	74.0	-16.3	3.61 V	346	53.4	4.3
2	5150.00	40.1 AV	54.0	-13.9	3.61 V	346	35.8	4.3
3	*5260.00	106.5 PK			3.61 V	346	102.7	3.8
4	*5260.00	99.1 AV			3.61 V	346	95.3	3.8
5	#10520.00	43.3 PK	74.0	-30.7	1.56 V	105	29.3	14.0
6	#10520.00	32.1 AV	54.0	-21.9	1.56 V	105	18.1	14.0
7	15780.00	45.7 PK	74.0	-28.3	1.51 V	319	32.1	13.6
8	15780.00	32.7 AV	54.0	-21.3	1.51 V	319	19.1	13.6

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

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	110.6 PK			1.11 H	241	106.7	3.9
2	*5300.00	101.8 AV			1.11 H	241	97.9	3.9
3	10600.00	46.2 PK	74.0	-27.8	1.68 H	172	32.8	13.4
4	10600.00	33.9 AV	54.0	-20.1	1.68 H	172	20.5	13.4
5	15900.00	46.2 PK	74.0	-27.8	1.51 H	241	33.7	12.5
6	15900.00	33.9 AV	54.0	-20.1	1.51 H	241	21.4	12.5
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	*5300.00	105.6 PK			3.71 V	314	101.7	3.9
2	*5300.00	97.2 AV			3.71 V	314	93.3	3.9
3	10600.00	43.1 PK	74.0	-30.9	1.49 V	64	29.7	13.4
4	10600.00	32.2 AV	54.0	-21.8	1.49 V	64	18.8	13.4
5	15900.00	46.0 PK	74.0	-28.0	1.36 V	360	33.5	12.5
6	15900.00	33.3 AV	54.0	-20.7	1.36 V	360	20.8	12.5

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.

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	110.7 PK			1.06 H	236	106.8	3.9
2	*5320.00	101.1 AV			1.06 H	236	97.2	3.9
3	5350.00	68.0 PK	74.0	-6.0	1.06 H	236	64.0	4.0
4	5350.00	52.6 AV	54.0	-1.4	1.06 H	236	48.6	4.0
5	10640.00	45.2 PK	74.0	-28.8	1.55 H	154	31.6	13.6
6	10640.00	33.4 AV	54.0	-20.6	1.55 H	154	19.8	13.6
7	15960.00	45.4 PK	74.0	-28.6	1.46 H	212	32.5	12.9
8	15960.00	33.3 AV	54.0	-20.7	1.46 H	212	20.4	12.9
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	*5320.00	104.8 PK			3.49 V	343	100.9	3.9
2	*5320.00	96.5 AV			3.49 V	343	92.6	3.9
3	5350.00	58.2 PK	74.0	-15.8	3.49 V	343	54.2	4.0
4	5350.00	40.5 AV	54.0	-13.5	3.49 V	343	36.5	4.0
5	10640.00	43.1 PK	74.0	-30.9	1.46 V	54	29.5	13.6
6	10640.00	31.8 AV	54.0	-22.2	1.46 V	54	18.2	13.6
7	15960.00	45.9 PK	74.0	-28.1	1.38 V	353	33.0	12.9
8	15960.00	33.5 AV	54.0	-20.5	1.38 V	353	20.6	12.9

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.

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	72.4 PK	74.0	-1.6	1.09 H	239	68.1	4.3
2	#5470.00	53.8 AV	54.0	-0.2	1.09 H	239	49.5	4.3
3	*5500.00	111.0 PK			1.09 H	239	106.7	4.3
4	*5500.00	102.3 AV			1.09 H	239	98.0	4.3
5	11000.00	45.6 PK	74.0	-28.4	1.56 H	153	31.7	13.9
6	11000.00	33.4 AV	54.0	-20.6	1.56 H	153	19.5	13.9
7	#16500.00	45.9 PK	74.0	-28.1	1.49 H	200	30.3	15.6
8	#16500.00	33.2 AV	54.0	-20.8	1.49 H	200	17.6	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	#5470.00	58.3 PK	74.0	-15.7	3.56 V	316	54.0	4.3
2	#5470.00	40.5 AV	54.0	-13.5	3.56 V	316	36.2	4.3
3	*5500.00	106.4 PK			3.56 V	316	102.1	4.3
4	*5500.00	97.4 AV			3.56 V	316	93.1	4.3
5	11000.00	43.5 PK	74.0	-30.5	1.51 V	82	29.6	13.9
6	11000.00	32.3 AV	54.0	-21.7	1.51 V	82	18.4	13.9
7	#16500.00	45.9 PK	74.0	-28.1	1.36 V	343	30.3	15.6
8	#16500.00	33.1 AV	54.0	-20.9	1.36 V	343	17.5	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 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	110.1 PK			2.28 H	56	105.7	4.4
2	*5580.00	100.7 AV			2.28 H	56	96.3	4.4
3	11160.00	44.7 PK	74.0	-29.3	1.61 H	142	31.0	13.7
4	11160.00	33.3 AV	54.0	-20.7	1.61 H	142	19.6	13.7
5	#16740.00	46.6 PK	74.0	-27.4	1.45 H	255	30.0	16.6
6	#16740.00	33.9 AV	54.0	-20.1	1.45 H	255	17.3	16.6
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	*5580.00	106.2 PK			3.72 V	354	101.8	4.4
2	*5580.00	98.6 AV			3.72 V	354	94.2	4.4
3	11160.00	43.4 PK	74.0	-30.6	1.50 V	57	29.7	13.7
4	11160.00	32.5 AV	54.0	-21.5	1.50 V	57	18.8	13.7
5	#16740.00	46.3 PK	74.0	-27.7	1.32 V	350	29.7	16.6
6	#16740.00	33.3 AV	54.0	-20.7	1.32 V	350	16.7	16.6

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

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	110.1 PK			2.11 H	46	105.6	4.5
2	*5700.00	100.0 AV			2.11 H	46	95.5	4.5
3	#5725.00	68.6 PK	74.0	-5.4	2.11 H	46	64.1	4.5
4	#5725.00	53.8 AV	54.0	-0.2	2.11 H	46	49.3	4.5
5	11400.00	45.9 PK	74.0	-28.1	1.58 H	162	31.4	14.5
6	11400.00	34.1 AV	54.0	-19.9	1.58 H	162	19.6	14.5
7	#17100.00	46.1 PK	74.0	-27.9	1.52 H	218	28.8	17.3
8	#17100.00	33.6 AV	54.0	-20.4	1.52 H	218	16.3	17.3
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	*5700.00	104.2 PK			3.55 V	333	99.7	4.5
2	*5700.00	95.9 AV			3.55 V	333	91.4	4.5
3	#5725.00	57.8 PK	74.0	-16.2	3.55 V	333	53.3	4.5
4	#5725.00	40.3 AV	54.0	-13.7	3.55 V	333	35.8	4.5
5	11400.00	42.2 PK	74.0	-31.8	1.47 V	66	27.7	14.5
6	11400.00	31.3 AV	54.0	-22.7	1.47 V	66	16.8	14.5
7	#17100.00	45.5 PK	74.0	-28.5	1.37 V	347	28.2	17.3
8	#17100.00	33.2 AV	54.0	-20.8	1.37 V	347	15.9	17.3

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	60.7 PK	74.0	-13.3	2.31 H	41	56.4	4.3
2	#5470.00	42.4 AV	54.0	-11.6	2.31 H	41	38.1	4.3
3	*5720.00	111.1 PK			2.31 H	41	106.6	4.5
4	*5720.00	101.3 AV			2.31 H	41	96.8	4.5
5	#5850.00	58.6 PK	74.0	-15.4	2.31 H	41	53.8	4.8
6	#5850.00	41.6 AV	54.0	-12.4	2.31 H	41	36.8	4.8
7	11440.00	45.3 PK	74.0	-28.7	1.58 H	157	31.1	14.2
8	11440.00	33.2 AV	54.0	-20.8	1.58 H	157	19.0	14.2
9	#17160.00	45.4 PK	74.0	-28.6	1.40 H	233	28.5	16.9
10	#17160.00	32.9 AV	54.0	-21.1	1.40 H	233	16.0	16.9
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	#5470.00	58.9 PK	74.0	-15.1	3.50 V	360	54.6	4.3
2	#5470.00	42.0 AV	54.0	-12.0	3.50 V	360	37.7	4.3
3	*5720.00	107.2 PK			3.50 V	360	102.7	4.5
4	*5720.00	99.8 AV			3.50 V	360	95.3	4.5
5	#5850.00	57.6 PK	74.0	-16.4	3.50 V	360	52.8	4.8
6	#5850.00	40.1 AV	54.0	-13.9	3.50 V	360	35.3	4.8
7	11440.00	42.5 PK	74.0	-31.5	1.42 V	50	28.3	14.2
8	11440.00	31.5 AV	54.0	-22.5	1.42 V	50	17.3	14.2
9	#17160.00	45.3 PK	74.0	-28.7	1.38 V	333	28.4	16.9
10	#17160.00	33.0 AV	54.0	-21.0	1.38 V	333	16.1	16.9

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

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	#5559.08	50.4 PK	68.2	-17.8	1.27 H	144	46.0	4.4
2	*5745.00	109.6 PK			1.27 H	144	105.0	4.6
3	*5745.00	99.7 AV			1.27 H	144	95.1	4.6
4	#5990.31	50.6 PK	68.2	-17.6	1.27 H	144	45.5	5.1
5	11490.00	47.4 PK	74.0	-26.6	3.41 H	217	33.3	14.1
6	11490.00	34.9 AV	54.0	-19.1	3.41 H	217	20.8	14.1
7	#17235.00	51.6 PK	74.0	-22.4	1.63 H	67	34.7	16.9
8	#17235.00	38.7 AV	54.0	-15.3	1.63 H	67	21.8	16.9
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	#5617.60	50.3 PK	68.2	-17.9	3.08 V	282	45.9	4.4
2	*5745.00	108.2 PK			3.08 V	282	103.6	4.6
3	*5745.00	97.6 AV			3.08 V	282	93.0	4.6
4	#5952.22	50.4 PK	68.2	-17.8	3.08 V	282	45.5	4.9
5	11490.00	49.6 PK	74.0	-24.4	3.92 V	322	35.5	14.1
6	11490.00	37.4 AV	54.0	-16.6	3.92 V	322	23.3	14.1
7	#17235.00	53.4 PK	74.0	-20.6	1.52 V	80	36.5	16.9
8	#17235.00	40.5 AV	54.0	-13.5	1.52 V	80	23.6	16.9

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	109.4 PK			1.31 H	127	104.8	4.6
2	*5785.00	99.5 AV			1.31 H	127	94.9	4.6
3	11570.00	46.9 PK	74.0	-27.1	3.32 H	221	32.8	14.1
4	11570.00	34.5 AV	54.0	-19.5	3.32 H	221	20.4	14.1
5	#17355.00	52.6 PK	74.0	-21.4	1.51 H	69	34.8	17.8
6	#17355.00	39.2 AV	54.0	-14.8	1.51 H	69	21.4	17.8
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	*5785.00	107.7 PK			3.13 V	290	103.1	4.6
2	*5785.00	97.7 AV			3.13 V	290	93.1	4.6
3	11570.00	50.3 PK	74.0	-23.7	3.95 V	286	36.2	14.1
4	11570.00	37.5 AV	54.0	-16.5	3.95 V	286	23.4	14.1
5	#17355.00	53.4 PK	74.0	-20.6	1.42 V	98	35.6	17.8
6	#17355.00	40.6 AV	54.0	-13.4	1.42 V	98	22.8	17.8

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	109.6 PK			1.30 H	129	104.8	4.8
2	*5825.00	99.6 AV			1.30 H	129	94.8	4.8
3	11650.00	46.2 PK	74.0	-27.8	3.35 H	233	32.2	14.0
4	11650.00	34.0 AV	54.0	-20.0	3.35 H	233	20.0	14.0
5	#17475.00	51.1 PK	74.0	-22.9	1.65 H	47	32.1	19.0
6	#17475.00	38.2 AV	54.0	-15.8	1.65 H	47	19.2	19.0
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	*5825.00	108.1 PK			3.07 V	276	103.3	4.8
2	*5825.00	98.6 AV			3.07 V	276	93.8	4.8
3	11650.00	50.2 PK	74.0	-23.8	3.87 V	317	36.2	14.0
4	11650.00	38.0 AV	54.0	-16.0	3.87 V	317	24.0	14.0
5	#17475.00	53.8 PK	74.0	-20.2	1.54 V	85	34.8	19.0
6	#17475.00	40.9 AV	54.0	-13.1	1.54 V	85	21.9	19.0

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.

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

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	63.5 PK	74.0	-10.5	2.21 H	47	59.2	4.3
2	5150.00	52.5 AV	54.0	-1.5	2.21 H	47	48.2	4.3
3	*5190.00	102.9 PK			2.21 H	47	98.8	4.1
4	*5190.00	93.1 AV			2.21 H	47	89.0	4.1
5	5350.00	48.1 PK	74.0	-25.9	2.21 H	47	44.1	4.0
6	5350.00	35.4 AV	54.0	-18.6	2.21 H	47	31.4	4.0
7	#10380.00	45.8 PK	74.0	-28.2	1.65 H	170	32.4	13.4
8	#10380.00	33.9 AV	54.0	-20.1	1.65 H	170	20.5	13.4
9	15570.00	45.4 PK	74.0	-28.6	1.38 H	219	32.4	13.0
10	15570.00	32.9 AV	54.0	-21.1	1.38 H	219	19.9	13.0
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	5150.00	58.2 PK	74.0	-15.8	3.64 V	307	53.9	4.3
2	5150.00	40.3 AV	54.0	-13.7	3.64 V	307	36.0	4.3
3	*5190.00	99.0 PK			3.64 V	307	94.9	4.1
4	*5190.00	87.8 AV			3.64 V	307	83.7	4.1
5	5350.00	45.7 PK	74.0	-28.3	3.64 V	307	41.7	4.0
6	5350.00	34.2 AV	54.0	-19.8	3.64 V	307	30.2	4.0
7	#10380.00	43.4 PK	74.0	-30.6	1.55 V	75	30.0	13.4
8	#10380.00	32.0 AV	54.0	-22.0	1.55 V	75	18.6	13.4
9	15570.00	44.9 PK	74.0	-29.1	1.44 V	359	31.9	13.0
10	15570.00	32.5 AV	54.0	-21.5	1.44 V	359	19.5	13.0

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

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	52.4 PK	74.0	-21.6	1.03 H	32	48.1	4.3
2	5150.00	39.4 AV	54.0	-14.6	1.03 H	32	35.1	4.3
3	*5230.00	104.9 PK			1.03 H	32	101.0	3.9
4	*5230.00	96.1 AV			1.03 H	32	92.2	3.9
5	5350.00	48.4 PK	74.0	-25.6	1.03 H	32	44.4	4.0
6	5350.00	35.5 AV	54.0	-18.5	1.03 H	32	31.5	4.0
7	#10460.00	45.7 PK	74.0	-28.3	1.57 H	165	31.8	13.9
8	#10460.00	33.3 AV	54.0	-20.7	1.57 H	165	19.4	13.9
9	15690.00	46.3 PK	74.0	-27.7	1.38 H	233	32.7	13.6
10	15690.00	33.8 AV	54.0	-20.2	1.38 H	233	20.2	13.6
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	49.9 PK	74.0	-24.1	3.54 V	358	45.6	4.3
2	5150.00	37.1 AV	54.0	-16.9	3.54 V	358	32.8	4.3
3	*5230.00	103.4 PK			3.54 V	358	99.5	3.9
4	*5230.00	93.0 AV			3.54 V	358	89.1	3.9
5	5350.00	46.6 PK	74.0	-27.4	3.54 V	358	42.6	4.0
6	5350.00	34.4 AV	54.0	-19.6	3.54 V	358	30.4	4.0
7	#10460.00	42.1 PK	74.0	-31.9	1.41 V	83	28.2	13.9
8	#10460.00	31.3 AV	54.0	-22.7	1.41 V	83	17.4	13.9
9	15690.00	45.3 PK	74.0	-28.7	1.32 V	357	31.7	13.6
10	15690.00	32.3 AV	54.0	-21.7	1.32 V	357	18.7	13.6

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

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	51.9 PK	74.0	-22.1	1.03 H	47	47.6	4.3
2	5150.00	38.7 AV	54.0	-15.3	1.03 H	47	34.4	4.3
3	*5270.00	104.7 PK			1.03 H	47	100.9	3.8
4	*5270.00	95.6 AV			1.03 H	47	91.8	3.8
5	#10540.00	45.3 PK	74.0	-28.7	1.60 H	168	31.5	13.8
6	#10540.00	33.0 AV	54.0	-21.0	1.60 H	168	19.2	13.8
7	15810.00	45.7 PK	74.0	-28.3	1.43 H	197	32.3	13.4
8	15810.00	33.3 AV	54.0	-20.7	1.43 H	197	19.9	13.4
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	49.6 PK	74.0	-24.4	3.54 V	360	45.3	4.3
2	5150.00	37.2 AV	54.0	-16.8	3.54 V	360	32.9	4.3
3	*5270.00	103.1 PK			3.54 V	360	99.3	3.8
4	*5270.00	92.3 AV			3.54 V	360	88.5	3.8
5	#10540.00	42.0 PK	74.0	-32.0	1.50 V	95	28.2	13.8
6	#10540.00	31.2 AV	54.0	-22.8	1.50 V	95	17.4	13.8
7	15810.00	45.4 PK	74.0	-28.6	1.45 V	328	32.0	13.4
8	15810.00	32.4 AV	54.0	-21.6	1.45 V	328	19.0	13.4

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

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	103.5 PK			1.05 H	238	99.6	3.9
2	*5310.00	94.3 AV			1.05 H	238	90.4	3.9
3	5350.00	64.6 PK	74.0	-9.4	1.05 H	238	60.6	4.0
4	5350.00	53.5 AV	54.0	-0.5	1.05 H	238	49.5	4.0
5	10620.00	45.6 PK	74.0	-28.4	1.60 H	156	32.1	13.5
6	10620.00	33.8 AV	54.0	-20.2	1.60 H	156	20.3	13.5
7	15930.00	45.4 PK	74.0	-28.6	1.31 H	215	32.7	12.7
8	15930.00	32.8 AV	54.0	-21.2	1.31 H	215	20.1	12.7
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	*5310.00	100.0 PK			3.59 V	340	96.1	3.9
2	*5310.00	89.3 AV			3.59 V	340	85.4	3.9
3	5350.00	52.7 PK	74.0	-21.3	3.59 V	340	48.7	4.0
4	5350.00	40.0 AV	54.0	-14.0	3.59 V	340	36.0	4.0
5	10620.00	42.7 PK	74.0	-31.3	1.58 V	71	29.2	13.5
6	10620.00	32.0 AV	54.0	-22.0	1.58 V	71	18.5	13.5
7	15930.00	45.5 PK	74.0	-28.5	1.36 V	343	32.8	12.7
8	15930.00	32.9 AV	54.0	-21.1	1.36 V	343	20.2	12.7

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.

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	66.7 PK	74.0	-7.3	1.01 H	62	62.4	4.3
2	**#5470.00**	**53.9 AV**	**54.0**	**-0.1**	**1.01 H**	**62**	**49.6**	**4.3**
3	*5510.00	102.5 PK			1.01 H	62	98.2	4.3
4	*5510.00	93.2 AV			1.01 H	62	88.9	4.3
5	11020.00	45.1 PK	74.0	-28.9	1.53 H	155	31.3	13.8
6	11020.00	32.8 AV	54.0	-21.2	1.53 H	155	19.0	13.8
7	#16530.00	45.1 PK	74.0	-28.9	1.35 H	202	29.3	15.8
8	#16530.00	33.1 AV	54.0	-20.9	1.35 H	202	17.3	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	#5470.00	52.9 PK	74.0	-21.1	3.63 V	345	48.6	4.3
2	#5470.00	40.9 AV	54.0	-13.1	3.63 V	345	36.6	4.3
3	*5510.00	100.2 PK			3.63 V	345	95.9	4.3
4	*5510.00	89.1 AV			3.63 V	345	84.8	4.3
5	11020.00	42.3 PK	74.0	-31.7	1.55 V	76	28.5	13.8
6	11020.00	31.5 AV	54.0	-22.5	1.55 V	76	17.7	13.8
7	#16530.00	45.3 PK	74.0	-28.7	1.33 V	359	29.5	15.8
8	#16530.00	32.6 AV	54.0	-21.4	1.33 V	359	16.8	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 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	105.6 PK			1.04 H	50	101.3	4.3
2	*5550.00	96.6 AV			1.04 H	50	92.3	4.3
3	11100.00	44.8 PK	74.0	-29.2	1.54 H	159	31.0	13.8
4	11100.00	32.9 AV	54.0	-21.1	1.54 H	159	19.1	13.8
5	#16650.00	46.0 PK	74.0	-28.0	1.45 H	230	29.5	16.5
6	#16650.00	33.5 AV	54.0	-20.5	1.45 H	230	17.0	16.5
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	*5550.00	103.0 PK			3.50 V	360	98.7	4.3
2	*5550.00	92.6 AV			3.50 V	360	88.3	4.3
3	11100.00	41.9 PK	74.0	-32.1	1.48 V	76	28.1	13.8
4	11100.00	31.1 AV	54.0	-22.9	1.48 V	76	17.3	13.8
5	#16650.00	45.9 PK	74.0	-28.1	1.47 V	354	29.4	16.5
6	#16650.00	33.6 AV	54.0	-20.4	1.47 V	354	17.1	16.5

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

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	107.9 PK			1.09 H	231	103.5	4.4
2	*5670.00	98.7 AV			1.09 H	231	94.3	4.4
3	#5725.00	67.9 PK	74.0	-6.1	1.09 H	231	63.4	4.5
4	#5725.00	53.8 AV	54.0	-0.2	1.09 H	231	49.3	4.5
5	11340.00	45.7 PK	74.0	-28.3	1.58 H	149	31.6	14.1
6	11340.00	33.5 AV	54.0	-20.5	1.58 H	149	19.4	14.1
7	#17010.00	45.4 PK	74.0	-28.6	1.38 H	226	27.9	17.5
8	#17010.00	32.9 AV	54.0	-21.1	1.38 H	226	15.4	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	*5670.00	101.0 PK			3.42 V	360	96.6	4.4
2	*5670.00	89.8 AV			3.42 V	360	85.4	4.4
3	#5725.00	54.0 PK	74.0	-20.0	3.42 V	360	49.5	4.5
4	#5725.00	41.7 AV	54.0	-12.3	3.42 V	360	37.2	4.5
5	11340.00	42.2 PK	74.0	-31.8	1.48 V	63	28.1	14.1
6	11340.00	31.7 AV	54.0	-22.3	1.48 V	63	17.6	14.1
7	#17010.00	45.0 PK	74.0	-29.0	1.47 V	360	27.5	17.5
8	#17010.00	32.7 AV	54.0	-21.3	1.47 V	360	15.2	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 142	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	60.5 PK	74.0	-13.5	1.07 H	155	56.2	4.3
2	#5470.00	42.2 AV	54.0	-11.8	1.07 H	155	37.9	4.3
3	*5710.00	107.3 PK			1.07 H	155	102.8	4.5
4	*5710.00	97.6 AV			1.07 H	155	93.1	4.5
5	#5850.00	59.5 PK	74.0	-14.5	1.07 H	155	54.7	4.8
6	#5850.00	42.5 AV	54.0	-11.5	1.07 H	155	37.7	4.8
7	11420.00	45.4 PK	74.0	-28.6	1.48 H	157	31.1	14.3
8	11420.00	33.1 AV	54.0	-20.9	1.48 H	157	18.8	14.3
9	#17130.00	45.3 PK	74.0	-28.7	1.45 H	198	28.1	17.2
10	#17130.00	32.7 AV	54.0	-21.3	1.45 H	198	15.5	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	#5470.00	59.3 PK	74.0	-14.7	3.48 V	360	55.0	4.3
2	#5470.00	42.2 AV	54.0	-11.8	3.48 V	360	37.9	4.3
3	*5710.00	104.2 PK			3.48 V	360	99.7	4.5
4	*5710.00	94.0 AV			3.48 V	360	89.5	4.5
5	#5850.00	56.8 PK	74.0	-17.2	3.48 V	360	52.0	4.8
6	#5850.00	39.9 AV	54.0	-14.1	3.48 V	360	35.1	4.8
7	11420.00	41.8 PK	74.0	-32.2	1.38 V	70	27.5	14.3
8	11420.00	31.4 AV	54.0	-22.6	1.38 V	70	17.1	14.3
9	#17130.00	45.9 PK	74.0	-28.1	1.46 V	346	28.7	17.2
10	#17130.00	33.1 AV	54.0	-20.9	1.46 V	346	15.9	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 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5755.00	104.3 PK			1.29 H	121	99.7	4.6
2	*5755.00	94.2 AV			1.29 H	121	89.6	4.6
3	11510.00	47.3 PK	74.0	-26.7	3.37 H	246	33.2	14.1
4	11510.00	34.5 AV	54.0	-19.5	3.37 H	246	20.4	14.1
5	#17265.00	51.5 PK	74.0	-22.5	1.72 H	75	34.4	17.1
6	#17265.00	38.4 AV	54.0	-15.6	1.72 H	75	21.3	17.1
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	*5755.00	103.3 PK			3.13 V	275	98.7	4.6
2	*5755.00	92.5 AV			3.13 V	275	87.9	4.6
3	11510.00	49.2 PK	74.0	-24.8	3.98 V	309	35.1	14.1
4	11510.00	37.4 AV	54.0	-16.6	3.98 V	309	23.3	14.1
5	#17265.00	52.9 PK	74.0	-21.1	1.54 V	85	35.8	17.1
6	#17265.00	40.1 AV	54.0	-13.9	1.54 V	85	23.0	17.1

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	106.3 PK			1.33 H	125	101.6	4.7
2	*5795.00	96.3 AV			1.33 H	125	91.6	4.7
3	11590.00	47.9 PK	74.0	-26.1	3.34 H	223	33.8	14.1
4	11590.00	35.3 AV	54.0	-18.7	3.34 H	223	21.2	14.1
5	#17385.00	51.2 PK	74.0	-22.8	1.70 H	75	33.2	18.0
6	#17385.00	38.1 AV	54.0	-15.9	1.70 H	75	20.1	18.0
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	*5795.00	103.6 PK			3.17 V	275	98.9	4.7
2	*5795.00	94.0 AV			3.17 V	275	89.3	4.7
3	11590.00	49.9 PK	74.0	-24.1	3.92 V	295	35.8	14.1
4	11590.00	38.0 AV	54.0	-16.0	3.92 V	295	23.9	14.1
5	#17385.00	53.5 PK	74.0	-20.5	1.55 V	81	35.5	18.0
6	#17385.00	40.3 AV	54.0	-13.7	1.55 V	81	22.3	18.0

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.

802.11ac (VHT80)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.1 PK	74.0	-9.9	1.02 H	59	59.8	4.3
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**1.02 H**	**59**	**49.6**	**4.3**
3	*5210.00	98.8 PK			1.02 H	59	94.7	4.1
4	*5210.00	89.1 AV			1.02 H	59	85.0	4.1
5	5350.00	51.7 PK	74.0	-22.3	1.02 H	59	47.7	4.0
6	5350.00	39.5 AV	54.0	-14.5	1.02 H	59	35.5	4.0
7	#10420.00	44.7 PK	74.0	-29.3	1.66 H	174	31.1	13.6
8	#10420.00	32.4 AV	54.0	-21.6	1.66 H	174	18.8	13.6
9	15630.00	45.6 PK	74.0	-28.4	1.37 H	210	32.3	13.3
10	15630.00	33.1 AV	54.0	-20.9	1.37 H	210	19.8	13.3
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	58.0 PK	74.0	-16.0	2.56 V	282	53.7	4.3
2	5150.00	40.1 AV	54.0	-13.9	2.56 V	282	35.8	4.3
3	*5210.00	95.8 PK			2.56 V	282	91.7	4.1
4	*5210.00	84.8 AV			2.56 V	282	80.7	4.1
5	5350.00	46.7 PK	74.0	-27.3	2.56 V	282	42.7	4.0
6	5350.00	35.0 AV	54.0	-19.0	2.56 V	282	31.0	4.0
7	#10420.00	41.8 PK	74.0	-32.2	1.57 V	75	28.2	13.6
8	#10420.00	30.9 AV	54.0	-23.1	1.57 V	75	17.3	13.6
9	15630.00	44.2 PK	74.0	-29.8	1.41 V	351	30.9	13.3
10	15630.00	32.2 AV	54.0	-21.8	1.41 V	351	18.9	13.3

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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	52.0 PK	74.0	-22.0	1.06 H	45	47.7	4.3
2	5150.00	40.1 AV	54.0	-13.9	1.06 H	45	35.8	4.3
3	*5290.00	100.7 PK			1.06 H	45	96.8	3.9
4	*5290.00	90.3 AV			1.06 H	45	86.4	3.9
5	5350.00	68.8 PK	74.0	-5.2	1.06 H	45	64.8	4.0
6	5350.00	53.1 AV	54.0	-0.9	1.06 H	45	49.1	4.0
7	#10580.00	45.1 PK	74.0	-28.9	1.56 H	174	31.5	13.6
8	#10580.00	33.2 AV	54.0	-20.8	1.56 H	174	19.6	13.6
9	15870.00	44.8 PK	74.0	-29.2	1.44 H	226	32.0	12.8
10	15870.00	33.1 AV	54.0	-20.9	1.44 H	226	20.3	12.8
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	5150.00	45.4 PK	74.0	-28.6	2.60 V	287	41.1	4.3
2	5150.00	34.0 AV	54.0	-20.0	2.60 V	287	29.7	4.3
3	*5290.00	95.3 PK			2.60 V	287	91.4	3.9
4	*5290.00	84.7 AV			2.60 V	287	80.8	3.9
5	5350.00	58.4 PK	74.0	-15.6	2.60 V	287	54.4	4.0
6	5350.00	40.6 AV	54.0	-13.4	2.60 V	287	36.6	4.0
7	#10580.00	42.7 PK	74.0	-31.3	1.62 V	74	29.1	13.6
8	#10580.00	32.0 AV	54.0	-22.0	1.62 V	74	18.4	13.6
9	15870.00	45.1 PK	74.0	-28.9	1.41 V	320	32.3	12.8
10	15870.00	32.5 AV	54.0	-21.5	1.41 V	320	19.7	12.8

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	67.3 PK	74.0	-6.7	1.02 H	250	63.0	4.3
2	#5470.00	53.6 AV	54.0	-0.4	1.02 H	250	49.3	4.3
3	*5530.00	99.3 PK			1.02 H	250	95.0	4.3
4	*5530.00	89.6 AV			1.02 H	250	85.3	4.3
5	#5725.00	48.7 PK	74.0	-25.3	1.02 H	250	44.2	4.5
6	#5725.00	36.4 AV	54.0	-17.6	1.02 H	250	31.9	4.5
7	11060.00	46.0 PK	74.0	-28.0	1.55 H	155	32.2	13.8
8	11060.00	33.4 AV	54.0	-20.6	1.55 H	155	19.6	13.8
9	#16590.00	45.4 PK	74.0	-28.6	1.40 H	207	28.7	16.7
10	#16590.00	33.2 AV	54.0	-20.8	1.40 H	207	16.5	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	#5470.00	58.6 PK	74.0	-15.4	2.53 V	312	54.3	4.3
2	#5470.00	40.5 AV	54.0	-13.5	2.53 V	312	36.2	4.3
3	*5530.00	95.6 PK			2.53 V	312	91.3	4.3
4	*5530.00	84.9 AV			2.53 V	312	80.6	4.3
5	#5725.00	47.3 PK	74.0	-26.7	2.53 V	312	42.8	4.5
6	#5725.00	36.2 AV	54.0	-17.8	2.53 V	312	31.7	4.5
7	11060.00	43.2 PK	74.0	-30.8	1.55 V	52	29.4	13.8
8	11060.00	31.9 AV	54.0	-22.1	1.55 V	52	18.1	13.8
9	#16590.00	44.7 PK	74.0	-29.3	1.38 V	344	28.0	16.7
10	#16590.00	32.1 AV	54.0	-21.9	1.38 V	344	15.4	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 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5610.00	105.6 PK			1.02 H	271	101.2	4.4
2	*5610.00	95.4 AV			1.02 H	271	91.0	4.4
3	#5725.00	47.7 PK	74.0	-26.3	1.02 H	271	43.2	4.5
4	#5725.00	36.1 AV	54.0	-17.9	1.02 H	271	31.6	4.5
5	11220.00	44.2 PK	74.0	-29.8	1.48 H	173	30.5	13.7
6	11220.00	32.3 AV	54.0	-21.7	1.48 H	173	18.6	13.7
7	#16830.00	45.4 PK	74.0	-28.6	1.41 H	209	28.4	17.0
8	#16830.00	33.0 AV	54.0	-21.0	1.41 H	209	16.0	17.0
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	*5610.00	100.7 PK			2.95 V	291	96.3	4.4
2	*5610.00	90.0 AV			2.95 V	291	85.6	4.4
3	#5725.00	46.3 PK	74.0	-27.7	2.95 V	291	41.8	4.5
4	#5725.00	35.0 AV	54.0	-19.0	2.95 V	291	30.5	4.5
5	11220.00	42.3 PK	74.0	-31.7	1.58 V	83	28.6	13.7
6	11220.00	31.4 AV	54.0	-22.6	1.58 V	83	17.7	13.7
7	#16830.00	45.4 PK	74.0	-28.6	1.40 V	360	28.4	17.0
8	#16830.00	32.7 AV	54.0	-21.3	1.40 V	360	15.7	17.0

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	60.6 PK	74.0	-13.4	1.17 H	273	56.3	4.3
2	#5470.00	42.3 AV	54.0	-11.7	1.17 H	273	38.0	4.3
3	*5690.00	105.5 PK			1.17 H	273	101.1	4.4
4	*5690.00	95.6 AV			1.17 H	273	91.2	4.4
5	#5850.00	58.7 PK	74.0	-15.3	1.17 H	273	53.9	4.8
6	#5850.00	41.1 AV	54.0	-12.9	1.17 H	273	36.3	4.8
7	11380.00	45.6 PK	74.0	-28.4	1.60 H	175	31.3	14.3
8	11380.00	33.8 AV	54.0	-20.2	1.60 H	175	19.5	14.3
9	#17070.00	44.7 PK	74.0	-29.3	1.26 H	195	27.4	17.3
10	#17070.00	32.6 AV	54.0	-21.4	1.26 H	195	15.3	17.3
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	#5470.00	59.0 PK	74.0	-15.0	2.97 V	312	54.7	4.3
2	#5470.00	41.9 AV	54.0	-12.1	2.97 V	312	37.6	4.3
3	*5690.00	101.0 PK			2.97 V	312	96.6	4.4
4	*5690.00	90.6 AV			2.97 V	312	86.2	4.4
5	#5850.00	57.1 PK	74.0	-16.9	2.97 V	312	52.3	4.8
6	#5850.00	40.1 AV	54.0	-13.9	2.97 V	312	35.3	4.8
7	11380.00	42.0 PK	74.0	-32.0	1.54 V	70	27.7	14.3
8	11380.00	31.1 AV	54.0	-22.9	1.54 V	70	16.8	14.3
9	#17070.00	45.8 PK	74.0	-28.2	1.36 V	342	28.5	17.3
10	#17070.00	32.9 AV	54.0	-21.1	1.36 V	342	15.6	17.3

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

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	*5775.00	100.0 PK			1.35 H	113	95.4	4.6
2	*5775.00	91.5 AV			1.35 H	113	86.9	4.6
3	11550.00	46.1 PK	74.0	-27.9	3.43 H	243	32.0	14.1
4	11550.00	34.1 AV	54.0	-19.9	3.43 H	243	20.0	14.1
5	#17325.00	51.8 PK	74.0	-22.2	1.60 H	70	34.4	17.4
6	#17325.00	38.3 AV	54.0	-15.7	1.60 H	70	20.9	17.4
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	*5775.00	98.9 PK			3.14 V	294	94.3	4.6
2	*5775.00	90.5 AV			3.14 V	294	85.9	4.6
3	11550.00	49.3 PK	74.0	-24.7	3.95 V	307	35.2	14.1
4	11550.00	37.0 AV	54.0	-17.0	3.95 V	307	22.9	14.1
5	#17325.00	53.2 PK	74.0	-20.8	1.55 V	87	35.8	17.4
6	#17325.00	40.4 AV	54.0	-13.6	1.55 V	87	23.0	17.4

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.

Below 1GHz Data

802.11a

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 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	44.81	29.2 QP	40.0	-10.8	1.00 H	158	37.1	-7.9
2	138.05	26.7 QP	43.5	-16.8	1.00 H	259	34.9	-8.2
3	166.40	30.9 QP	43.5	-12.6	1.50 H	321	39.2	-8.3
4	200.09	30.9 QP	43.5	-12.6	1.50 H	34	42.3	-11.4
5	210.96	30.1 QP	43.5	-13.4	1.00 H	173	41.6	-11.5
6	720.10	30.3 QP	46.0	-15.7	1.50 H	180	29.2	1.1
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	44.54	33.1 QP	40.0	-6.9	1.00 V	189	40.9	-7.8
2	138.09	29.4 QP	43.5	-14.1	1.50 V	189	37.6	-8.2
3	166.70	31.9 QP	43.5	-11.6	2.00 V	255	40.2	-8.3
4	199.30	27.6 QP	43.5	-15.9	1.00 V	202	39.0	-11.4
5	266.56	28.5 QP	46.0	-17.5	1.50 V	168	37.4	-8.9
6	828.73	28.6 QP	46.0	-17.4	1.50 V	141	25.6	3.0

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

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.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Nov. 01, 2017	Oct. 31, 2018
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Nov. 15, 2017	Nov. 14, 2018
Line-Impedance Stabilization Network (for Peripheral) R&S	ENV216	100072	June 03, 2017	June 02, 2018
50 ohms Terminator	N/A	EMC-02	Sep. 22, 2017	Sep. 21, 2018
RF Cable	5D-FB	COCCAB-001	Sep. 29, 2017	Sep. 28, 2018
10 dB PAD Mini-Circuits	HAT-10+	CONATT-004	June 18, 2017	June 17, 2018
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 1.
3. Tested Date: Dec. 15, 2017

4.2.3 Test Procedure

a. 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.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

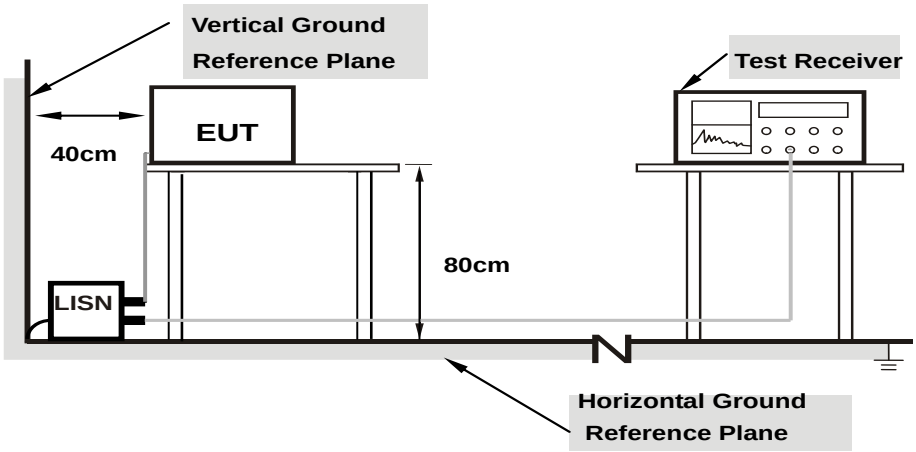
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 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 Condition

Same as 4.1.6.

4.2.7 Test Results (Mode 1)

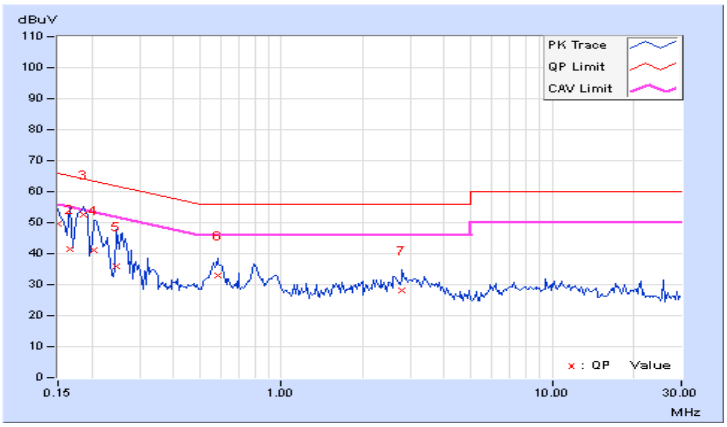
Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.08	39.57	30.16	49.65	40.24	66.00	56.00	-16.35	-15.76
2	0.16562	10.07	31.50	12.22	41.57	22.29	65.18	55.18	-23.61	-32.89
3	**0.18516**	**10.06**	**42.46**	**32.46**	**52.52**	**42.52**	**64.25**	**54.25**	**-11.73**	**-11.73**
4	0.20469	10.06	31.23	10.45	41.29	20.51	63.42	53.42	-22.13	-32.91
5	0.24766	10.07	25.68	10.87	35.75	20.94	61.84	51.84	-26.09	-30.90
6	0.58359	10.12	22.85	13.53	32.97	23.65	56.00	46.00	-23.03	-22.35
7	2.80469	10.20	17.82	12.70	28.02	22.90	56.00	46.00	-27.98	-23.10

REMARKS:

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

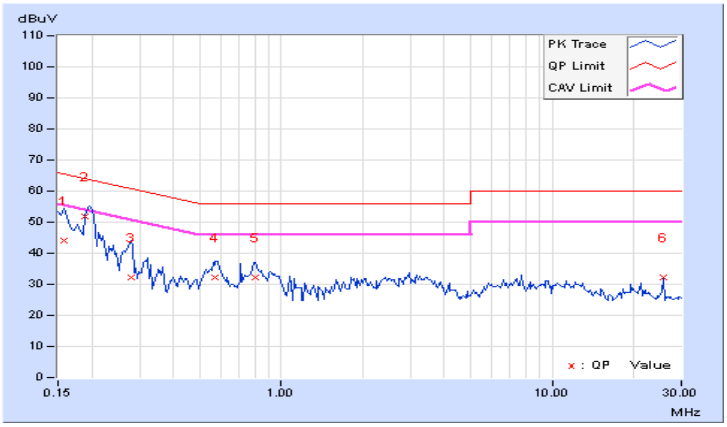


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	10.06	34.02	16.72	44.08	26.78	65.58	55.58	-21.50	-28.80
2	0.18812	10.04	41.65	29.80	51.69	39.84	64.12	54.12	-12.43	-14.28
3	0.27891	10.06	22.04	4.98	32.10	15.04	60.85	50.85	-28.75	-35.81
4	0.57188	10.11	22.12	10.87	32.23	20.98	56.00	46.00	-23.77	-25.02
5	0.79844	10.11	22.23	10.12	32.34	20.23	56.00	46.00	-23.66	-25.77
6	25.87500	10.97	21.21	20.42	32.18	31.39	60.00	50.00	-27.82	-18.61

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 Measurment

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	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,

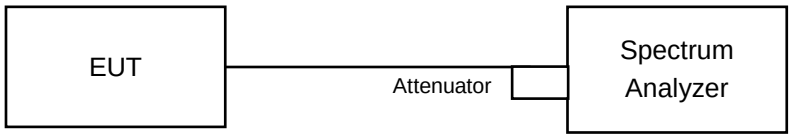
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

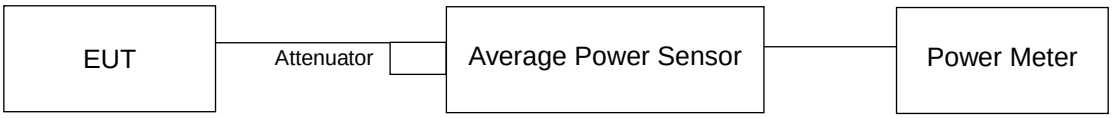
4.3.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

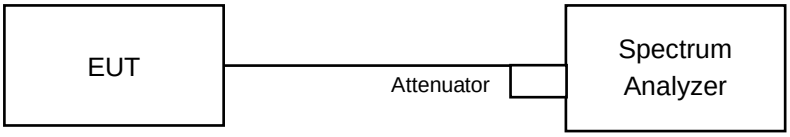
For channel straddling 5725MHz:



For other channels:



FOR 26dB 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 channel straddling 5725MHz:

Follow FCC KDB 789033 UNII test procedure:

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz.
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

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 26dB OCCUPIED BANDWIDTH

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

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

The software (QCRT Version3.0 29.0) provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result (Mode 1)

802.11a

POWER OUTPUT

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	14.01	14.62	54.15	17.34	21.89	Pass
40	5200	15.09	16.20	73.972	18.69	21.89	Pass
48	5240	15.35	16.31	77.033	18.87	21.89	Pass
52	5260	15.18	15.92	72.045	18.58	21.89	Pass
60	5300	15.35	15.86	72.825	18.62	21.89	Pass
64	5320	13.35	13.73	45.232	16.55	21.88	Pass
100	5500	13.94	13.50	47.161	16.74	21.70	Pass
116	5580	15.28	16.05	74.001	18.69	21.89	Pass
140	5700	11.31	11.32	27.073	14.33	21.76	Pass
*144 (UNII-2C Band)	5720	11.59	11.60	31.884	15.04	21.08	Pass
*144 (UNII-3 Band)	5720	4.10	4.69	6.089	7.85	27.89	Pass
149	5745	13.66	13.57	45.978	16.63	27.89	Pass
157	5785	14.68	15.12	61.885	17.92	27.89	Pass
165	5825	14.71	14.98	61.057	17.86	27.89	Pass

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	37.973	15.79
Note: The total power was calculated through formula and record the value for reference only.			

Note:

5150~5250MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 24-(8.11-6) = 21.89dBm.

5250~5350MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(8.11-6)”.

5470~5725MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(8.11-6)”.

5725~5850MHz: The directional gain is 8.11dBi > 6dBi, , therefore the limit needs to reduce, so the power limit shall be reduced to 30-(8.11-6) = 27.89dBm.

For CH144: Total power (dBm)= Average power <Chain 0 +1>(dBm) + Duty Factor (0.43dB)

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.70	19.49
40	5200	19.66	19.87
48	5240	19.92	19.94
52	5260	37.10	28.92
60	5300	36.61	22.43
64	5320	21.65	19.95
100	5500	20.89	19.14
116	5580	24.60	21.58
140	5700	19.73	19.37
144 (UNII-2C Band)	5720	19.28	16.57

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

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	28.92	25.61 > 24
60	5300	22.43	24.5 > 24
64	5320	19.95	23.99 < 24
100	5500	19.14	23.81 < 24
116	5580	21.58	24.34 > 24
140	5700	19.37	23.87 < 24
144 (UNII-2C Band)	5720	16.57	23.19 < 24

802.11ac (VHT20)

POWER OUTPUT

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	14.01	14.35	52.404	17.19	21.89	Pass
40	5200	14.12	15.01	57.519	17.60	21.89	Pass
48	5240	14.15	15.75	63.586	18.03	21.89	Pass
52	5260	14.50	15.42	63.018	17.99	21.89	Pass
60	5300	14.25	14.62	55.58	17.45	21.89	Pass
64	5320	13.74	13.82	47.758	16.79	21.89	Pass
100	5500	13.85	13.01	44.265	16.46	21.89	Pass
116	5580	14.12	14.70	55.335	17.43	21.89	Pass
140	5700	11.10	11.03	25.559	14.08	21.89	Pass
*144 (UNII-2C Band)	5720	11.01	10.26	26.239	14.19	20.68	Pass
*144 (UNII-3 Band)	5720	4.18	3.20	5.316	7.26	27.89	Pass
149	5745	13.52	12.88	41.9	16.22	27.89	Pass
157	5785	13.74	13.82	47.758	16.79	27.89	Pass
165	5825	13.82	14.21	50.462	17.03	27.89	Pass

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
144	5720	31.555	14.99
Note: The total power was calculated through formula and record the value for reference only.			

Note:

5150~5250MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 24-(8.11-6) = 21.89dBm.

5250~5350MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(8.11-6)”.

5470~5725MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(8.11-6)”.

5725~5850MHz: The directional gain is 8.11dBi > 6dBi, , therefore the limit needs to reduce, so the power limit shall be reduced to 30-(8.11-6) = 27.89dBm.

For CH144: Total power (dBm)= Average power <Chain 0 +1>(dBm) + Duty Factor (0.53dB)

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	20.51	20.20
40	5200	20.46	20.51
48	5240	20.33	21.78
52	5260	32.41	21.43
60	5300	32.34	21.27
64	5320	27.43	20.74
100	5500	20.91	20.21
116	5580	21.25	20.42
140	5700	20.21	20.42
144 (UNII-2C Band)	5720	15.78	15.12

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

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	21.43	24.31 > 24
60	5300	21.27	24.27 > 24
64	5320	20.74	24.16 > 24
100	5500	20.21	24.05 > 24
116	5580	20.42	24.10 > 24
140	5700	20.21	24.05 > 24
144 (UNII-2C Band)	5720	15.12	22.79 < 24

802.11ac (VHT40)

POWER OUTPUT

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	10.06	10.21	20.634	13.15	21.89	Pass
46	5230	13.45	14.02	47.366	16.75	21.89	Pass
54	5270	13.56	13.55	45.345	16.57	21.89	Pass
62	5310	10.94	10.41	23.407	13.69	21.89	Pass
102	5510	10.20	10.02	20.517	13.12	21.89	Pass
110	5550	13.44	13.56	44.779	16.51	21.89	Pass
134	5670	11.47	11.65	28.65	14.57	21.89	Pass
*142 (UNII-2C Band)	5710	10.35	10.63	27.66	14.42	21.89	Pass
*142 (UNII-3 Band)	5710	-1.59	-1.85	1.6627	2.21	27.89	Pass
151	5755	11.56	11.21	27.535	14.40	27.89	Pass
159	5795	12.89	12.98	39.315	15.95	27.89	Pass

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
142	5710	29.3227	14.67
Note: The total power was calculated through formula and record the value for reference only.			

Note:

5150~5250MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 24-(8.11-6) = 21.89dBm.

5250~5350MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(8.11-6)”.

5470~5725MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(8.11-6)”.

5725~5850MHz: The directional gain is 8.11dBi > 6dBi, , therefore the limit needs to reduce, so the power limit shall be reduced to 30-(8.11-6) = 27.89dBm.

For CH142: Total power (dBm)= Average power <Chain 0 +1>(dBm) + Duty Factor (0.92dB)

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	43.67	48.20
46	5230	43.78	42.28
54	5270	56.07	41.65
62	5310	45.35	42.85
102	5510	42.12	42.06
110	5550	43.31	41.49
134	5670	41.90	42.09
142 (UNII-2C Band)	5710	36.27	35.78

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

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	41.65	27.19 > 24
62	5310	42.85	27.31 > 24
102	5510	42.06	27.23 > 24
110	5550	41.49	27.17 > 24
134	5670	41.90	27.22 > 24
142 (UNII-2C Band)	5710	35.78	26.53 > 24

802.11ac (VHT80)

POWER OUTPUT

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	9.35	9.76	18.072	12.57	21.89	Pass
58	5290	9.27	9.15	16.675	12.22	21.89	Pass
106	5530	8.44	8.25	13.665	11.36	21.89	Pass
122	5610	13.13	13.68	43.894	16.42	21.89	Pass
*138 (UNII-2C Band)	5690	10.10	10.13	33.211	15.21	21.89	Pass
*138 (UNII-3 Band)	5690	-6.57	-6.11	0.7523	-1.24	27.89	Pass
155	5775	10.39	10.29	21.631	13.35	27.89	Pass

* Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test.

The Total Power for the straddle channel:

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)
138	5690	33.9633	15.31
Note: The total power was calculated through formula and record the value for reference only.			

Note:

5150~5250MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to 24-(8.11-6) = 21.89dBm.

5250~5350MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(8.11-6)”.

5470~5725MHz: The directional gain is 8.11dBi > 6dBi, therefore the limit needs to reduce, so the power limit shall be reduced to “Determined Conducted Limit-(8.11-6)”.

5725~5850MHz: The directional gain is 8.11dBi > 6dBi, , therefore the limit needs to reduce, so the power limit shall be reduced to 30-(8.11-6) = 27.89dBm.

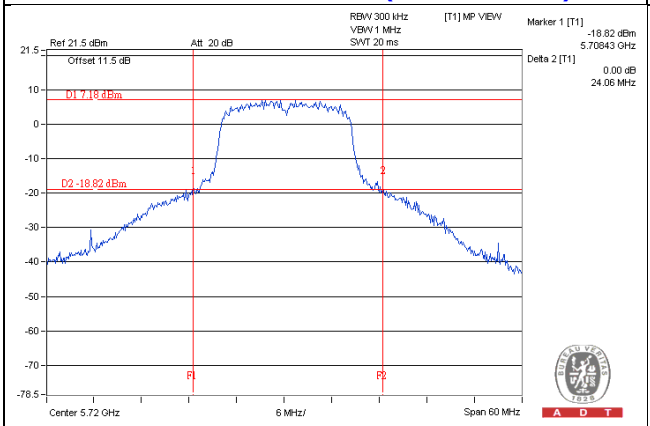
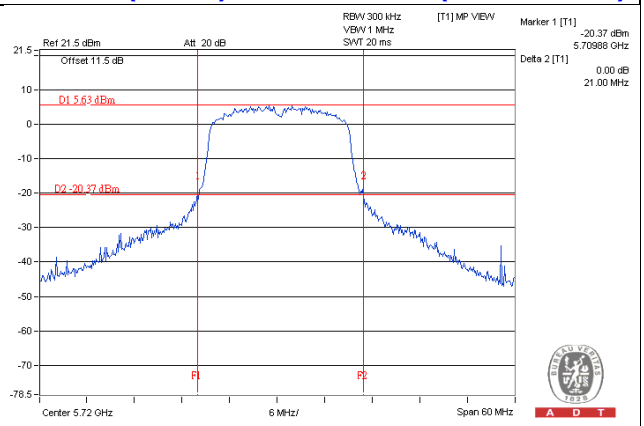
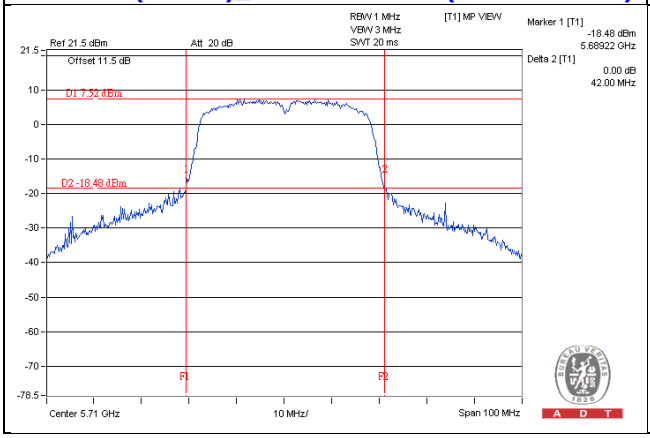
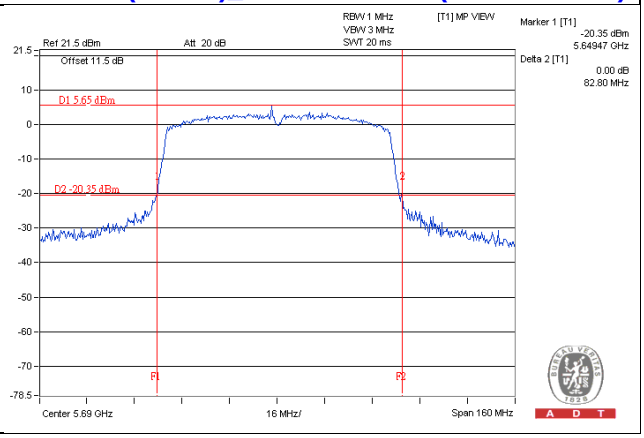
For CH138: Total power (dBm)= Average power <Chain 0 +1>(dBm) + Duty Factor (1.78dB)

26dB OCCUPIED BANDWIDTH

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	82.75	83.49
58	5290	83.44	82.49
106	5530	82.74	81.65
122	5610	89.46	84.35
138 (UNII-2C Band)	5690	93.89	75.53

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

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	82.49	30.16 > 24
106	5530	81.65	30.11 > 24
122	5610	84.35	30.26 > 24
138 (UNII-2C Band)	5690	75.53	29.78 > 24

Spectrum Plot of Worst Value	
802.11a_Chain 1: CH144(UNII-2C Band)	**802.11ac (VHT20)_Chain 1: CH144(UNII-2C Band)**
	
802.11ac (VHT40)_Chain 1: CH142(UNII-2C Band)	**802.11ac (VHT80)_Chain 1: CH138(UNII-2C Band)**
	

NOTE:

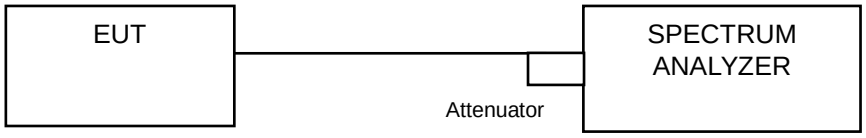
For CH144 (UNII-2C Band) = 5725MHz - Marker 1

For CH142 (UNII-2C Band) = 5725MHz - Marker 1

For CH138 (UNII-2C Band) = 5725MHz - Marker 1

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 SAMPLE. 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 Results (Mode 1)

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.32	16.32
40	5200	16.32	16.32
48	5240	16.20	16.44
52	5260	19.56	16.50
60	5300	18.54	16.44
64	5320	16.38	16.32
100	5500	16.38	16.32
116	5580	16.50	16.44
140	5700	16.32	16.26
144 (UNII-2C Band)	5720	13.04	13.16
144 (UNII-3 Band)	5720	3.76	3.52
149	5745	16.44	16.20
157	5785	16.38	16.38
165	5825	16.32	16.38

802.11ac (VHT20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.52	17.46
40	5200	17.46	17.40
48	5240	17.52	17.52
52	5260	17.88	17.52
60	5300	17.76	17.46
64	5320	17.64	17.52
100	5500	17.46	17.40
116	5580	17.52	17.46
140	5700	17.40	17.46
144 (UNII-2C Band)	5720	13.52	13.52
144 (UNII-3 Band)	5720	4.12	4.00
149	5745	17.52	17.52
157	5785	17.46	17.46
165	5825	17.46	17.52

802.11ac (VHT40)

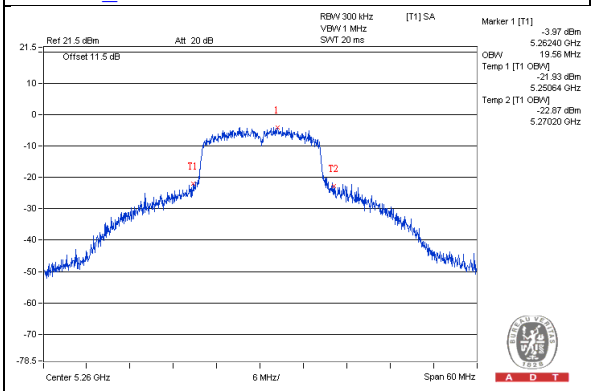
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	35.80	35.80
46	5230	36.00	36.24
54	5270	36.00	35.80
62	5310	35.80	35.70
102	5510	35.80	35.80
110	5550	35.70	35.80
134	5670	36.00	36.00
142 (UNII-2C Band)	5710	33.00	33.00
142 (UNII-3 Band)	5710	3.40	3.20
151	5755	36.24	36.00
159	5795	35.90	35.80

802.11ac (VHT80)

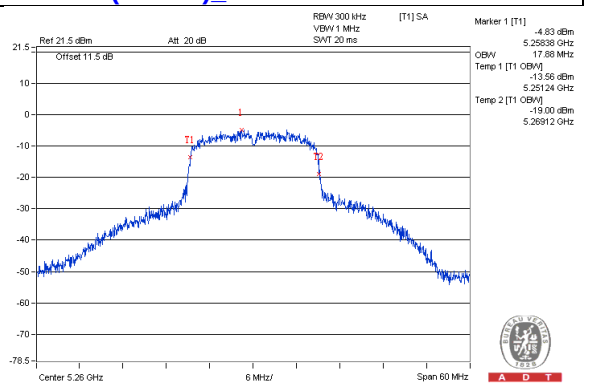
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.36	74.88
58	5290	74.88	75.00
106	5530	74.40	74.40
122	5610	75.12	75.12
138 (UNII-2C Band)	5690	72.92	72.92
138 (UNII-3 Band)	5690	2.44	2.44
155	5775	74.88	74.40

Spectrum Plot of Worst Value

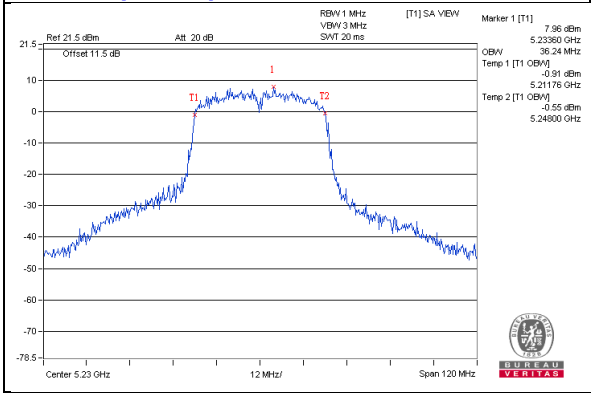
802.11a_Chain 0: Ch52



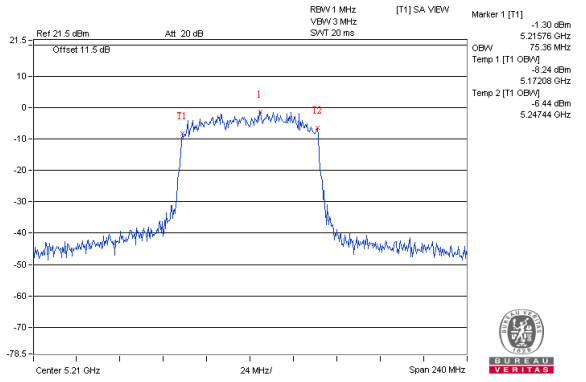
802.11ac(VHT20)_Chain 0: Ch52



802.11ac(VHT40)_Chain 1: Ch46

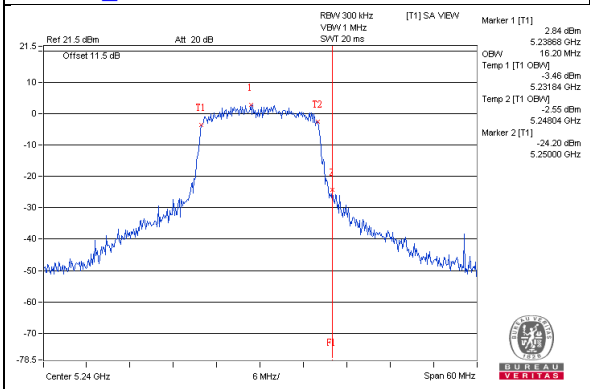


802.11ac (VHT80)_Chain 0: Ch42

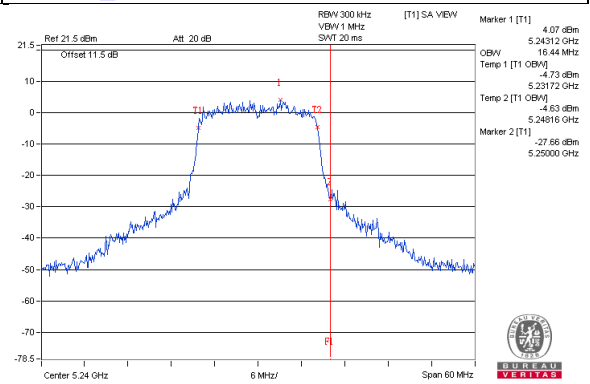


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

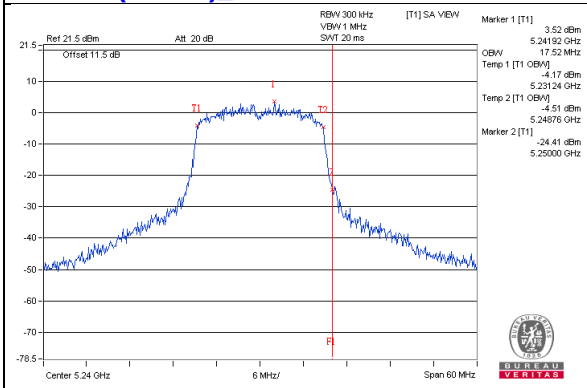
802.11a_Chain0 / CH48



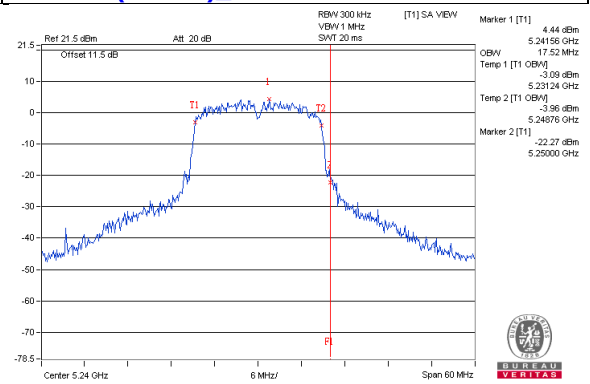
802.11a_Chain1 / CH48



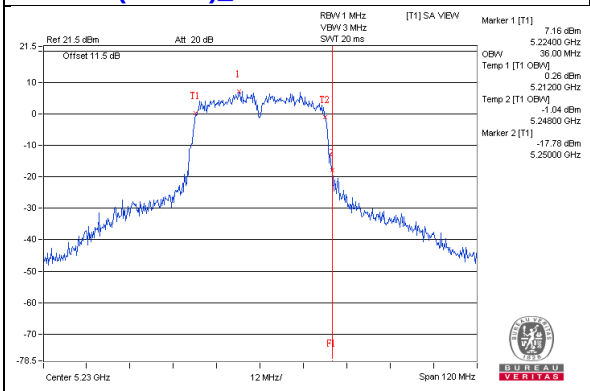
802.11ac(VHT20)_Chain0 / CH48



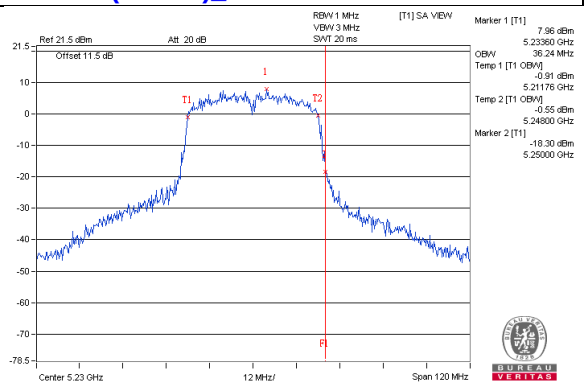
802.11ac(VHT20)_Chain1 / CH48



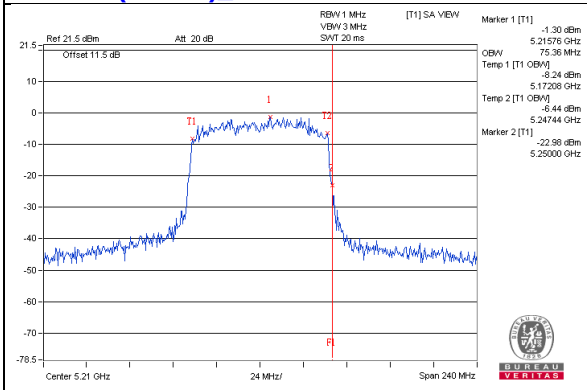
802.11ac(VHT40)_Chain0 / CH46



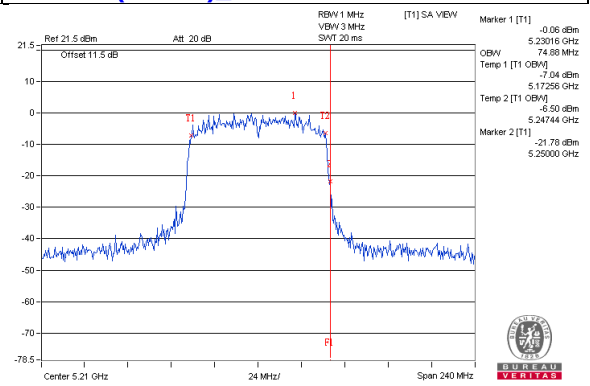
802.11ac(VHT40)_Chain1 / CH46



802.11ac(VHT80)_Chain0 / CH42

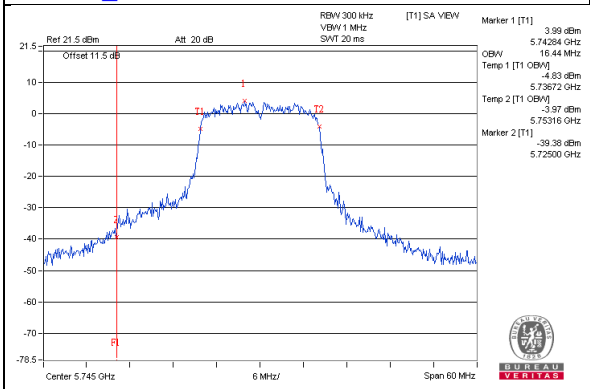


802.11ac(VHT80)_Chain1 / CH42

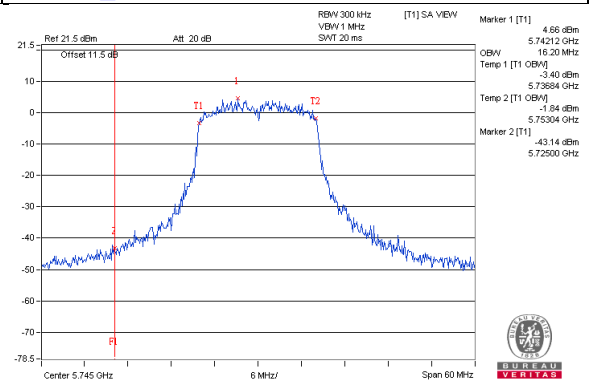


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

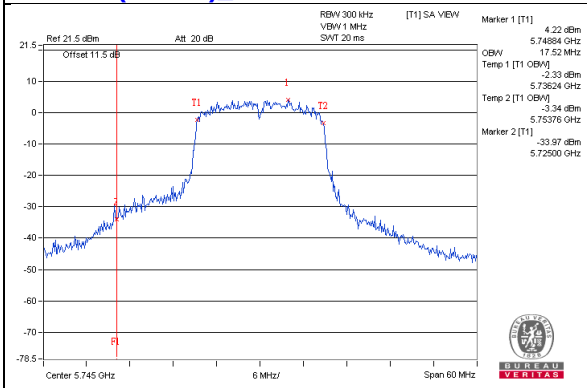
802.11a_Chain0 / CH149



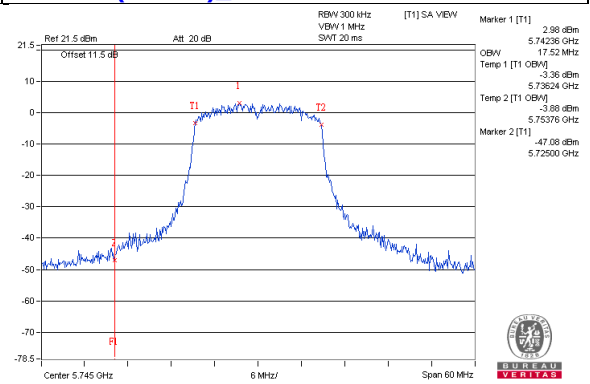
802.11a_Chain1 / CH149



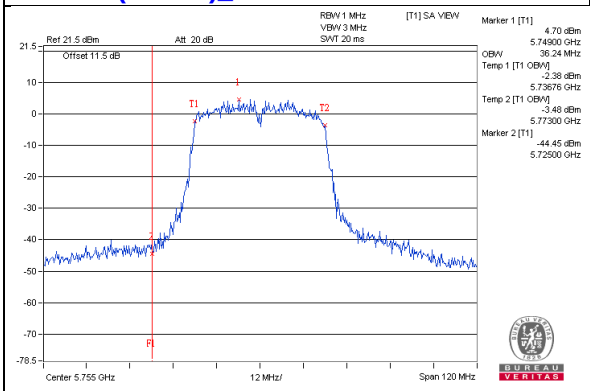
802.11ac(VHT20)_Chain0 / CH149



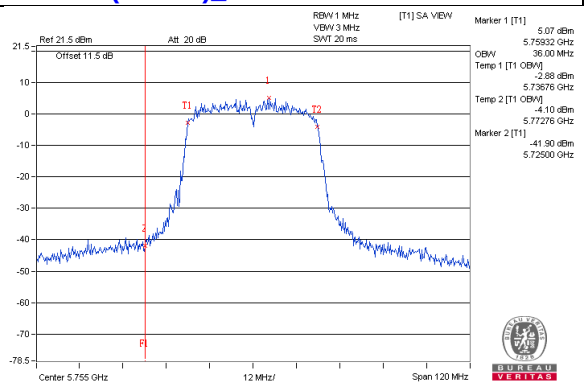
802.11ac(VHT20)_Chain1 / CH149



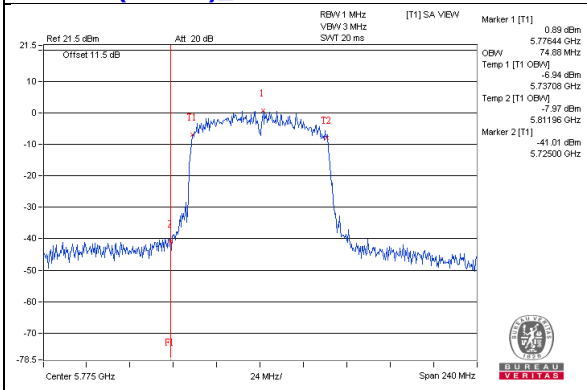
802.11ac(VHT40)_Chain0 / CH151



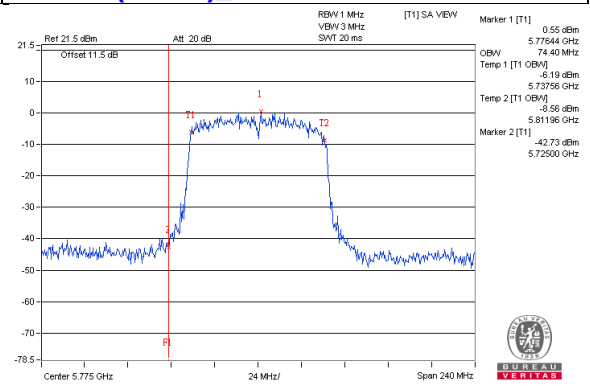
802.11ac(VHT40)_Chain1 / CH151



802.11ac(VHT80)_Chain0 / CH155



802.11ac(VHT80)_Chain1 / CH155

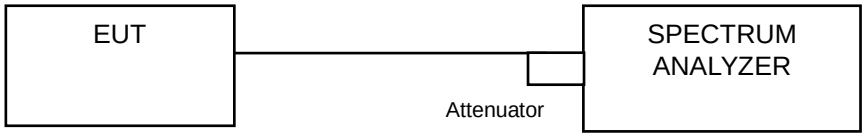


4.5 Peak Power Spectral Density Measurement

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	
	√	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 Procedure

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

Using method SA-2

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

For U-NII-3:

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 BWCF = 10log(500 kHz/300kHz)
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/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results (Mode 1)

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

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)		DUTY FACTOR (dB)	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	-2.90	-2.15	0.43	0.93	8.89	PASS
40	5200	-2.70	-1.97	0.43	1.12	8.89	PASS
48	5240	-2.66	-1.84	0.43	1.21	8.89	PASS
52	5260	1.01	0.55	0.43	4.23	8.89	PASS
60	5300	2.52	2.65	0.43	6.03	8.89	PASS
64	5320	0.92	0.63	0.43	4.22	8.89	PASS
100	5500	1.32	1.14	0.43	4.67	8.89	PASS
116	5580	2.99	3.15	0.43	6.51	8.89	PASS
140	5700	-1.32	-1.56	0.43	2.00	8.89	PASS
144 (UNII-2C Band)	5720	1.04	1.47	0.43	4.70	8.89	PASS

NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. Directional gain = 5.10dBi + 10log(2) = 8.11dBi > 6dBi , so the power density limit shall be reduced to 11-(8.11-6) = 8.89dBm.

3. Refer to section 3.4 for duty cycle spectrum plot.

802.11ac (VHT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)		DUTY FACTOR (dB)	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	-2.15	-2.24	0.53	1.34	8.89	PASS
40	5200	-1.84	-2.17	0.53	1.54	8.89	PASS
48	5240	-2.16	-2.51	0.53	1.21	8.89	PASS
52	5260	0.52	0.20	0.53	3.90	8.89	PASS
60	5300	1.68	1.45	0.53	5.10	8.89	PASS
64	5320	0.97	1.14	0.53	4.59	8.89	PASS
100	5500	0.72	0.43	0.53	4.12	8.89	PASS
116	5580	1.64	2.34	0.53	5.54	8.89	PASS
140	5700	-1.82	-2.23	0.53	1.52	8.89	PASS
144 (UNII-2C Band)	5720	0.03	0.25	0.53	3.68	8.89	PASS

NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. Directional gain = 5.10dBi + 10log(2) = 8.11dBi > 6dBi , so the power density limit shall be reduced to 11-(8.11-6) = 8.89dBm.

3. Refer to section 3.4 for duty cycle spectrum plot.

802.11ac (VHT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)		DUTY FACTOR (dB)	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
38	5190	-7.81	-7.14	0.92	-3.53	8.89	PASS
46	5230	-4.02	-3.23	0.92	0.32	8.89	PASS
54	5270	-2.71	-3.01	0.92	1.07	8.89	PASS
62	5310	-6.54	-7.26	0.92	-2.96	8.89	PASS
102	5510	-6.34	-9.18	0.92	-3.61	8.89	PASS
110	5550	-4.77	-4.80	0.92	-0.86	8.89	PASS
134	5670	-5.14	-4.69	0.92	-0.98	8.89	PASS
142 (UNII-2C Band)	5710	-3.96	-3.80	0.92	0.05	8.89	PASS

NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. Directional gain = 5.10dBi + 10log(2) = 8.11dBi > 6dBi , so the power density limit shall be reduced to 11-(8.11-6) = 8.89dBm.

3. Refer to section 3.4 for duty cycle spectrum plot.

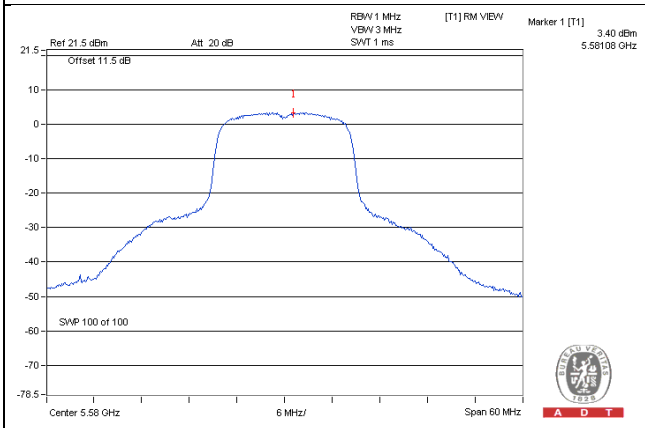
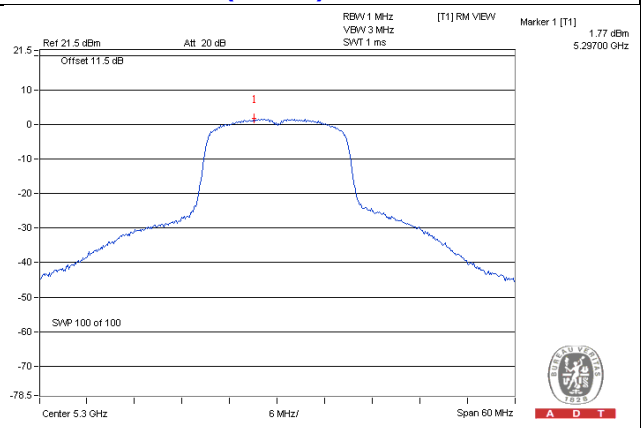
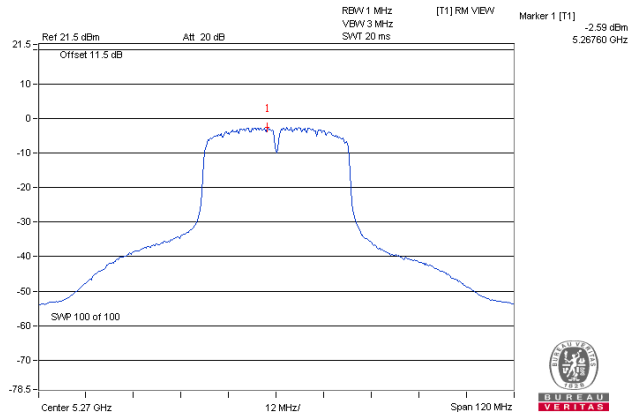
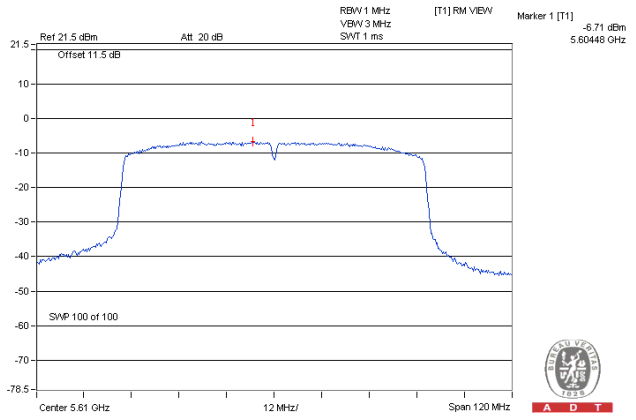
802.11ac (VHT80)

CHANNEL	CHANNEL FREQUENCY (MHz)	PSD W/O DUTY FACTOR (dBm)		DUTY FACTOR (dB)	TOTAL PSD WITH DUTY FACTOR (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
42	5210	-11.27	-11.10	2.09	-6.09	8.89	PASS
58	5290	-10.19	-10.83	2.09	-5.40	8.89	PASS
106	5530	-11.20	-11.35	2.09	-6.18	8.89	PASS
122	5610	-7.01	-6.71	2.09	-1.76	8.89	PASS
138 (UNII-2C Band)	5690	-7.90	-7.87	2.09	-2.79	8.89	PASS

NOTE: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. Directional gain = 5.10dBi + 10log(2) = 8.11dBi > 6dBi , so the power density limit shall be reduced to 11-(8.11-6) = 8.89dBm.

3. Refer to section 3.4 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a_Chain 1: CH116	**802.11ac (VHT20) _Chain 0: CH60**
	
802.11ac (VHT40) _Chain 0: CH54	**802.11ac (VHT80) _Chain 1: CH122**
	

For U-NII-3:

802.11a

TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR		10 log (N=2) dB	DUTY FACTOR (dB)	TOTAL PSD WITH DUTY FACTOR (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
			(dBm/300kHz)	(dBm/500kHz)					
0	144 (UNII-3 Band)	5720	-7.46	-5.24	3.01	0.43	-1.80	27.89	PASS
	149	5745	-4.28	-2.06	3.01	0.43	1.38	27.89	PASS
	157	5785	-3.27	-1.05	3.01	0.43	2.39	27.89	PASS
	165	5825	-2.90	-0.68	3.01	0.43	2.76	27.89	PASS
1	144 (UNII-3 Band)	5720	-6.99	-4.77	3.01	0.43	-1.33	27.89	PASS
	149	5745	-4.18	-1.96	3.01	0.43	1.48	27.89	PASS
	157	5785	-2.72	-0.50	3.01	0.43	2.94	27.89	PASS
	165	5825	-2.72	-0.50	3.01	0.43	2.94	27.89	PASS

NOTE: 1. Directional gain = 5.10dBi + 10log(2) = 8.11dBi > 6dB, so the power density limit shall be reduced to 30-(8.11-6) = 27.89dBm.

2. Refer to section 3.4 for duty cycle spectrum plot.

802.11ac (VHT20)

TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR		10 log (N=2) dB	DUTY FACTOR (dB)	TOTAL PSD WITH DUTY FACTOR (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
			(dBm/300kHz)	(dBm/500kHz)					
0	144 (UNII-3 Band)	5720	-8.30	-6.08	3.01	0.53	-2.54	27.89	PASS
	149	5745	-4.56	-2.34	3.01	0.53	1.20	27.89	PASS
	157	5785	-4.28	-2.06	3.01	0.53	1.48	27.89	PASS
	165	5825	-3.44	-1.22	3.01	0.53	2.32	27.89	PASS
1	144 (UNII-3 Band)	5720	-8.47	-6.25	3.01	0.53	-2.71	27.89	PASS
	149	5745	-4.43	-2.21	3.01	0.53	1.33	27.89	PASS
	157	5785	-3.67	-1.45	3.01	0.53	2.09	27.89	PASS
	165	5825	-3.15	-0.93	3.01	0.53	2.61	27.89	PASS

NOTE: 1. Directional gain = 5.10dBi + 10log(2) = 8.11dBi > 6dB, so the power density limit shall be reduced to 30-(8.11-6) = 27.89dBm.

2. Refer to section 3.4 for duty cycle spectrum plot.

802.11ac (VHT40)

TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR		10 log (N=2) dB	DUTY FACTOR (dB)	TOTAL PSD WITH DUTY FACTOR (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
			(dBm/300kHz)	(dBm/500kHz)					
0	142 (UNII-3 Band)	5710	-14.24	-12.02	3.01	0.92	-8.09	27.89	PASS
	151	5755	-10.65	-8.43	3.01	0.92	-4.50	27.89	PASS
	159	5795	-9.45	-7.23	3.01	0.92	-3.30	27.89	PASS
1	142 (UNII-3 Band)	5710	-14.20	-11.98	3.01	0.92	-8.05	27.89	PASS
	151	5755	-11.09	-8.87	3.01	0.92	-4.94	27.89	PASS
	159	5795	-9.34	-7.12	3.01	0.92	-3.19	27.89	PASS

NOTE: 1. Directional gain = 5.10dBi + 10log(2) = 8.11dBi > 6dB, so the power density limit shall be reduced to 30-(8.11-6) = 27.89dBm.

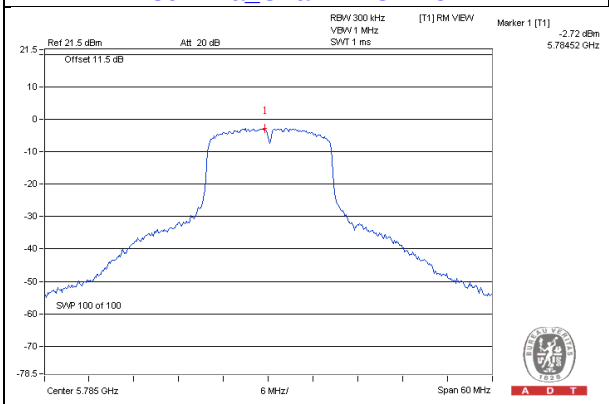
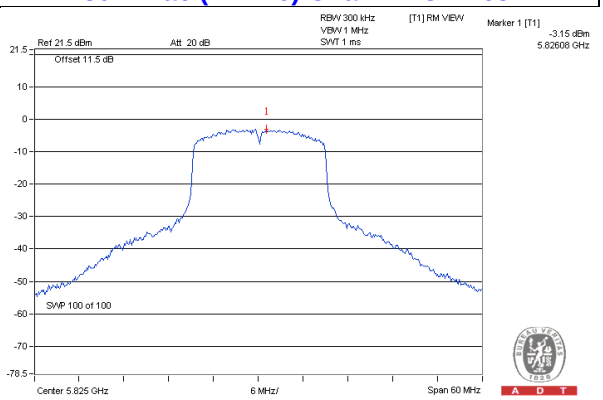
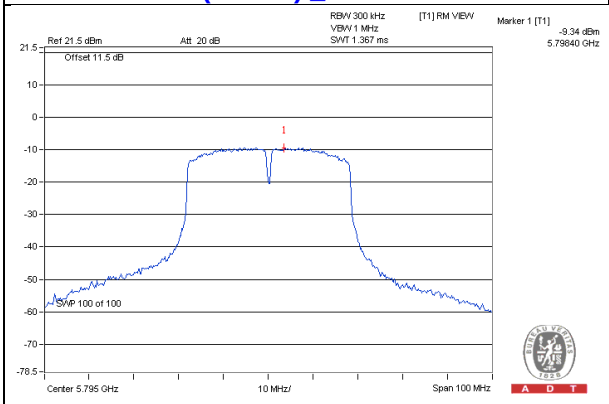
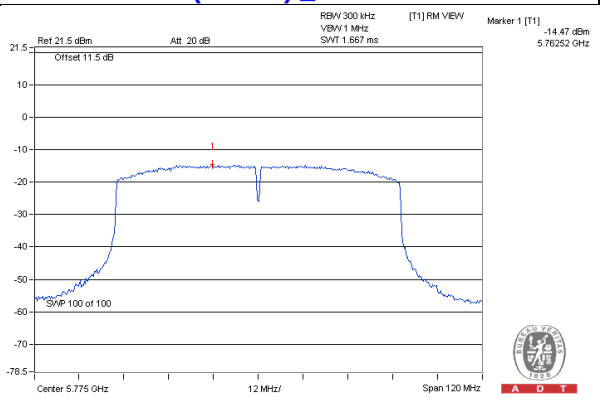
2. Refer to section 3.4 for duty cycle spectrum plot.

802.11ac (VHT80)

TX CHAIN	CHANNEL	FREQUENCY (MHz)	PSD W/O DUTY FACTOR		10 log (N=2) dB	DUTY FACTOR (dB)	TOTAL PSD WITH DUTY FACTOR (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
			(dBm/300kHz)	(dBm/500kHz)					
0	138 (UNII-3 Band)	5690	-19.36	-17.14	3.01	2.09	-12.04	27.89	PASS
	155	5775	-15.18	-12.96	3.01	2.09	-7.86	27.89	PASS
1	138 (UNII-3 Band)	5690	-19.55	-17.33	3.01	2.09	-12.23	27.89	PASS
	155	5775	-14.47	-12.25	3.01	2.09	-7.15	27.89	PASS

NOTE: 1. Directional gain = 5.10dBi + 10log(2) = 8.11dBi > 6dB, so the power density limit shall be reduced to 30-(8.11-6) = 27.89dBm.

2. Refer to section 3.4 for duty cycle spectrum plot.

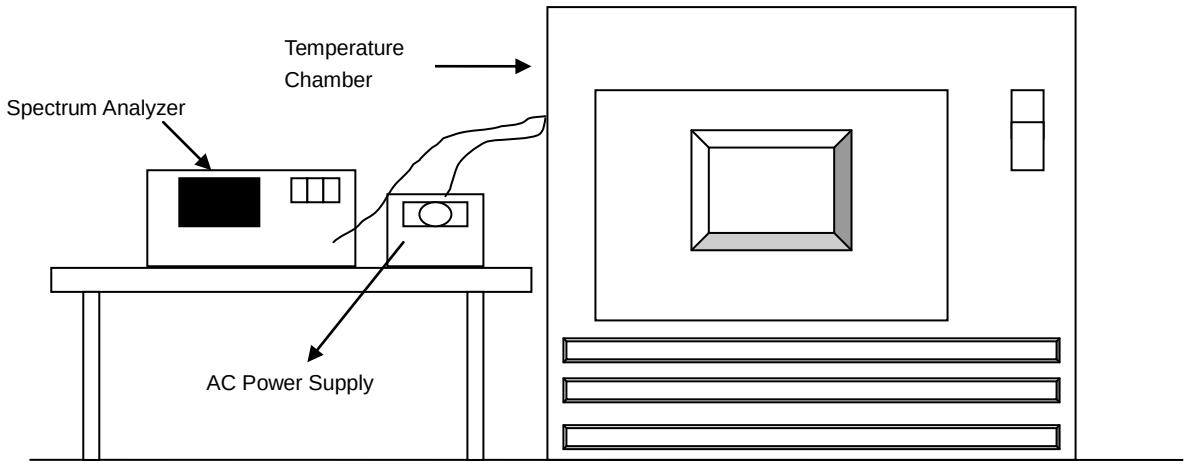
Spectrum Plot of Worst Value	
802.11a_Chain 1: CH 157	**802.11ac (VHT20) Chain 1: CH 165**
	
802.11ac (VHT40) _Chain 1: CH 159	**802.11ac (VHT80) _Chain 1: CH 155**
	

4.6 Frequency Stability Measurement

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

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

4.6.5 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 (Mode 1)

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
50	120	5180.0046	PASS	5180.006	PASS	5180.0045	PASS	5180.0041	PASS
40	120	5179.976	PASS	5179.9795	PASS	5179.9753	PASS	5179.9787	PASS
30	120	5179.9886	PASS	5179.9873	PASS	5179.9882	PASS	5179.9845	PASS
20	120	5179.9846	PASS	5179.9841	PASS	5179.985	PASS	5179.9863	PASS
10	120	5179.984	PASS	5179.9838	PASS	5179.985	PASS	5179.9836	PASS
0	120	5180.0128	PASS	5180.0124	PASS	5180.0116	PASS	5180.0144	PASS
-10	120	5179.9919	PASS	5179.992	PASS	5179.9912	PASS	5179.9913	PASS
-20	120	5179.9818	PASS	5179.9838	PASS	5179.9808	PASS	5179.9834	PASS
-30	120	5180.0019	PASS	5179.9991	PASS	5180.0027	PASS	5179.9997	PASS

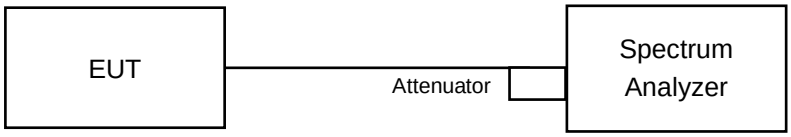
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (℃)	Power Supply (Vac)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	138	5179.9842	PASS	5179.9837	PASS	5179.9852	PASS	5179.9859	PASS
	120	5179.9846	PASS	5179.9841	PASS	5179.985	PASS	5179.9863	PASS
	102	5179.9836	PASS	5179.9849	PASS	5179.985	PASS	5179.9873	PASS

4.7 6dB Bandwidth Measurment

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

a. Set resolution bandwidth (RBW) = 100kHz
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. 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 (Mode 1)

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
144 (UNII-3 Band)	5720	2.88	2.72	0.5	PASS
149	5745	15.52	15.29	0.5	PASS
157	5785	16.31	14.20	0.5	PASS
165	5825	14.40	14.40	0.5	PASS

802.11ac (VHT20)

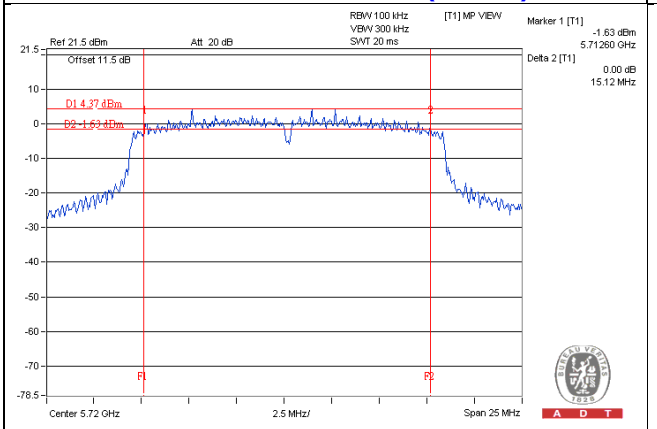
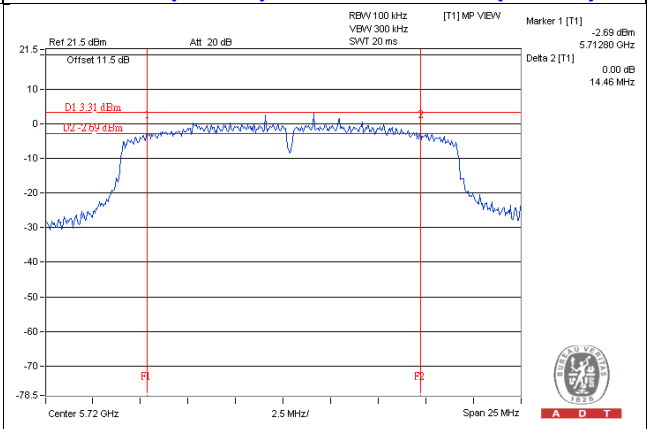
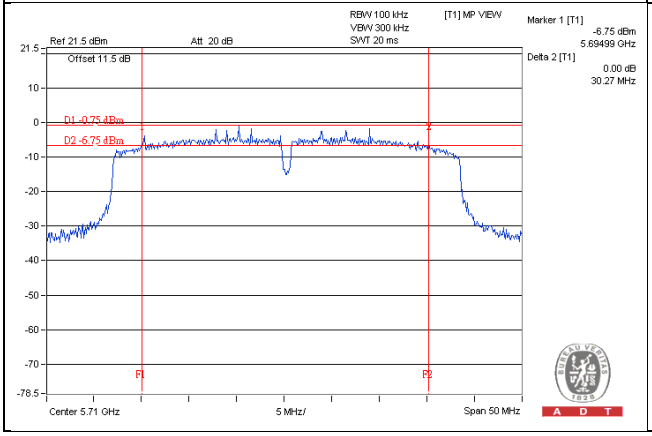
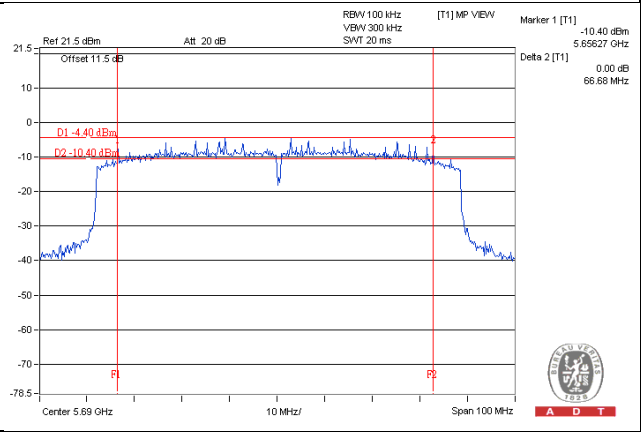
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
144 (UNII-3 Band)	5720	2.26	2.85	0.5	PASS
149	5745	15.13	15.04	0.5	PASS
157	5785	15.13	15.45	0.5	PASS
165	5825	15.05	14.75	0.5	PASS

802.11ac (VHT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
142 (UNII-3 Band)	5710	15.26	17.73	0.5	PASS
151	5755	35.04	35.16	0.5	PASS
159	5795	30.61	33.83	0.5	PASS

802.11ac (VHT80)

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		CHAIN 0	CHAIN 1		
138 (UNII-3 Band)	5690	37.85	32.95	0.5	PASS
155	5775	75.07	70.45	0.5	PASS

Spectrum Plot of Worst Value	
802.11a_Chain1: CH144 (U-NII-3)	**802.11ac (VHT20) _Chain 0: CH144 (U-NII-3)**
	
802.11ac (VHT40)_Chain0: CH142 (U-NII-3)	**802.11ac (VHT80)_Chain 1: CH138 (U-NII-3)**
	

Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

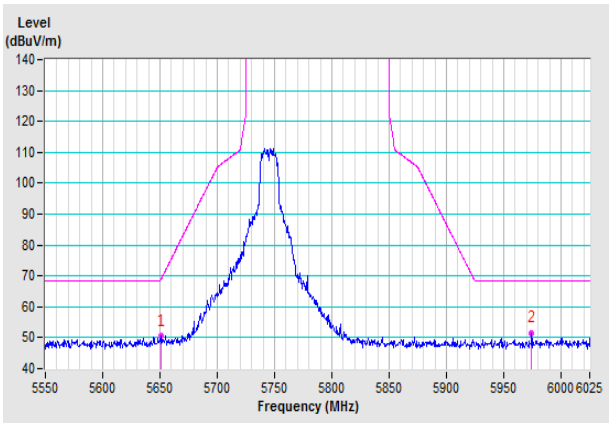
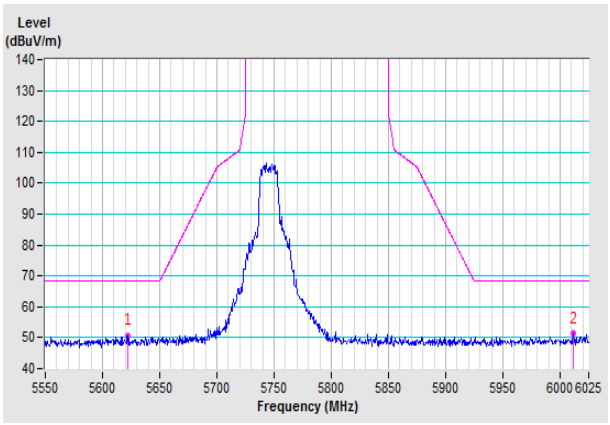
5 Pictures of Test Arrangements

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

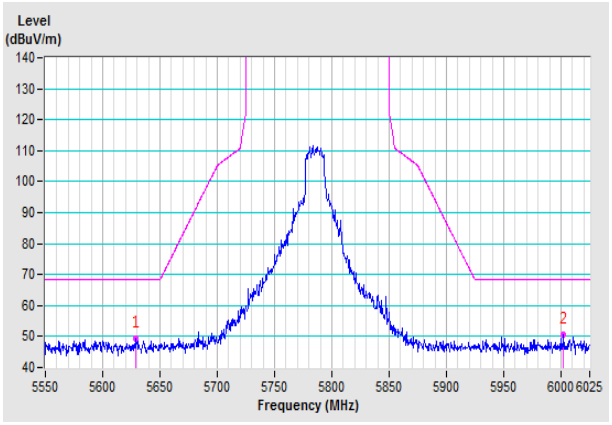
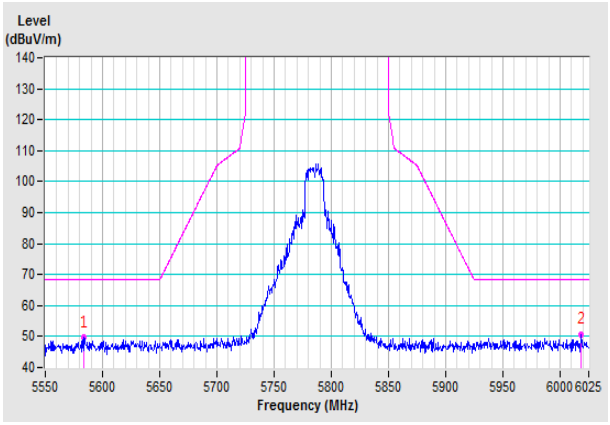
Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)-Mode 1

802.11a

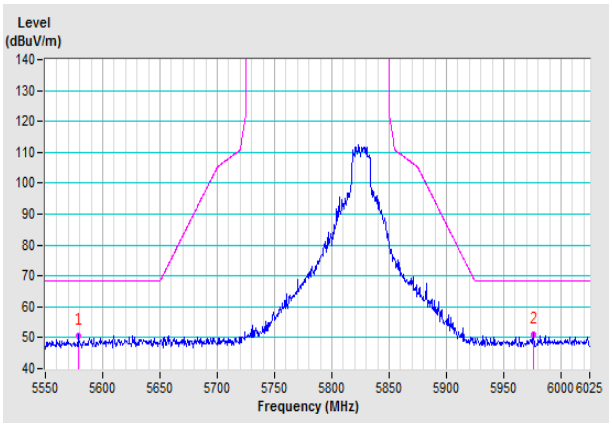
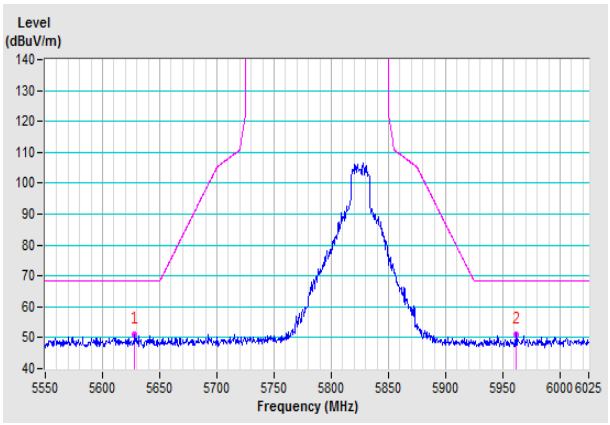
CH 149 5745 MHz

Horizontal	Vertical
	

CH 157 5785 MHz

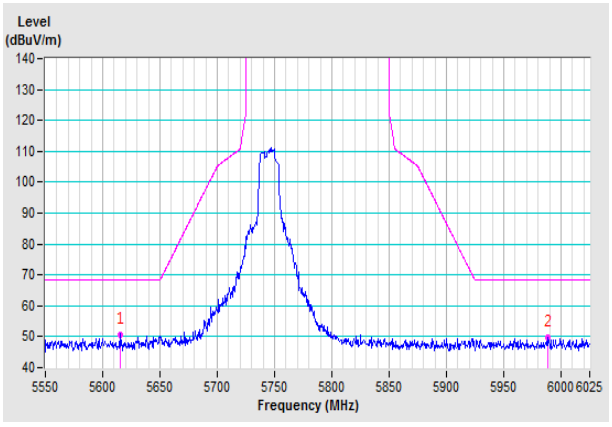
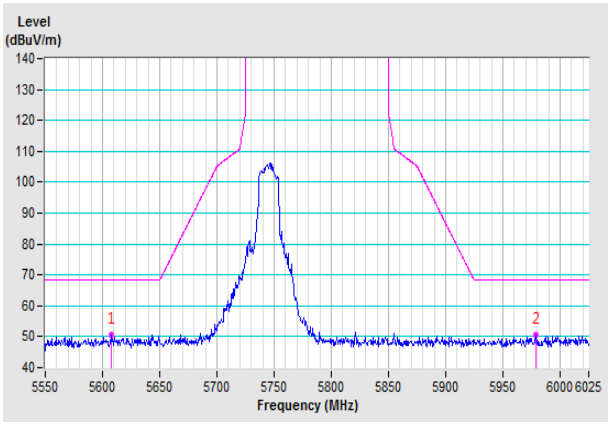
Horizontal	Vertical
	

CH 165 5825 MHz

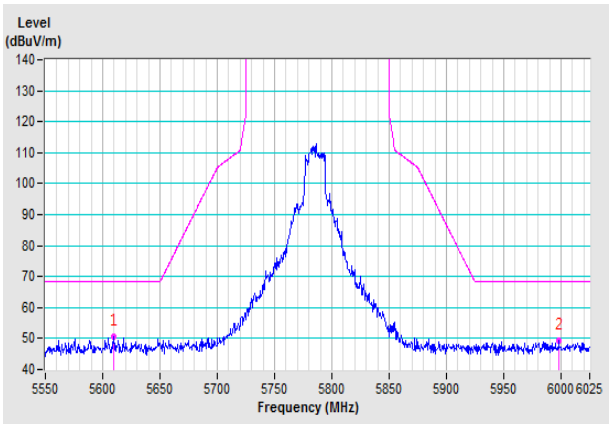
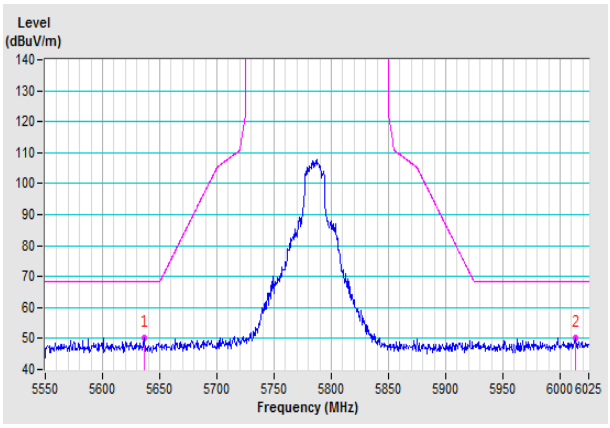
Horizontal	Vertical
	

802.11ac (VHT20)

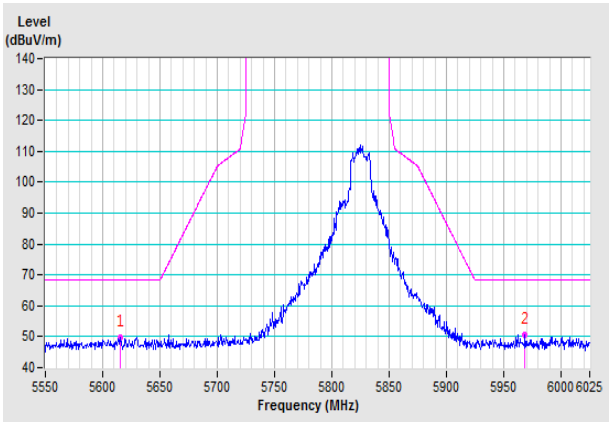
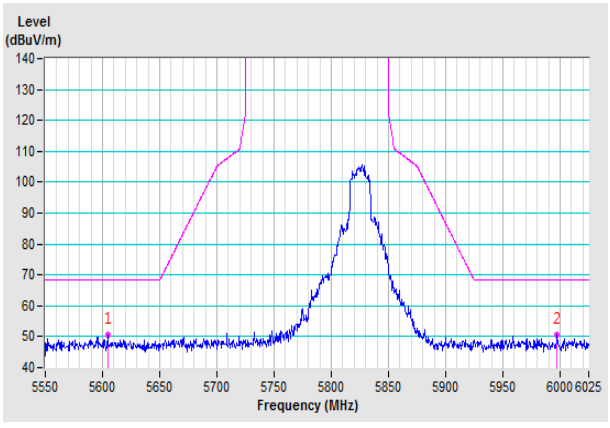
CH 149 5745 MHz

Horizontal	Vertical
	

CH 157 5785 MHz

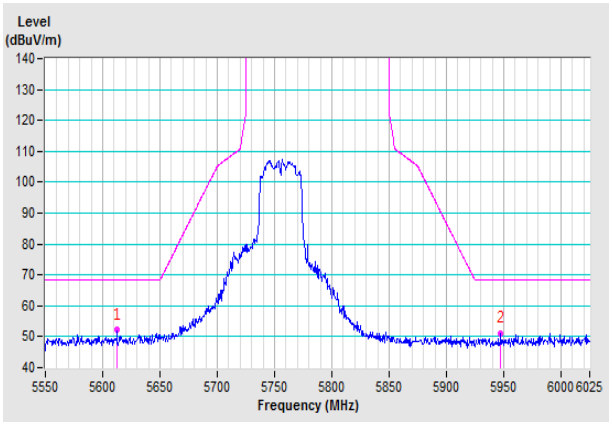
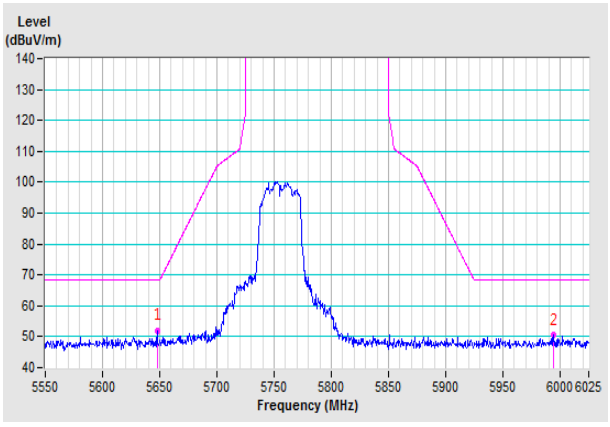
Horizontal	Vertical
	

CH 165 5825 MHz

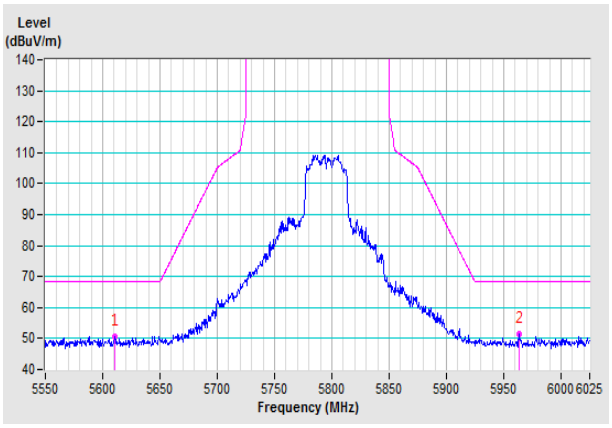
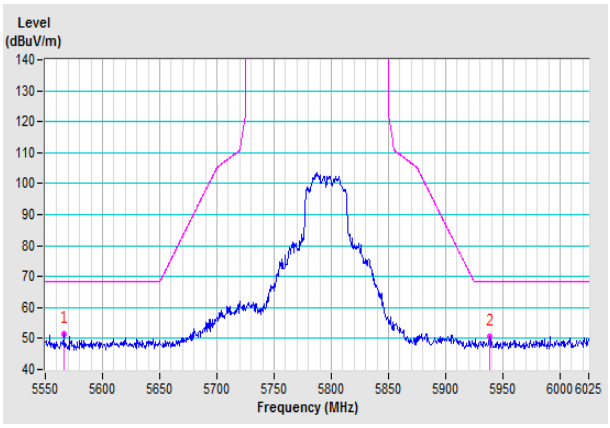
Horizontal	Vertical
	

802.11ac (VHT40)

CH 151 5755 MHz

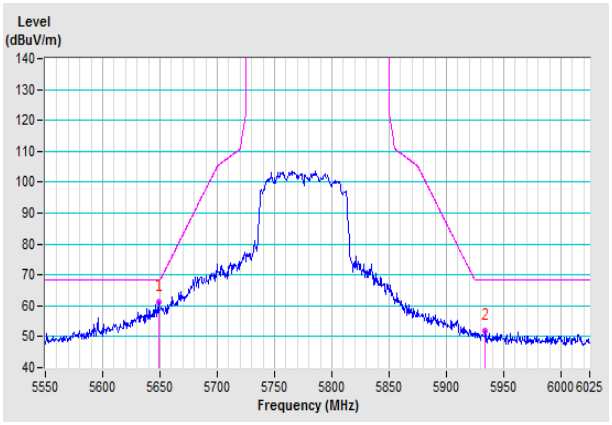
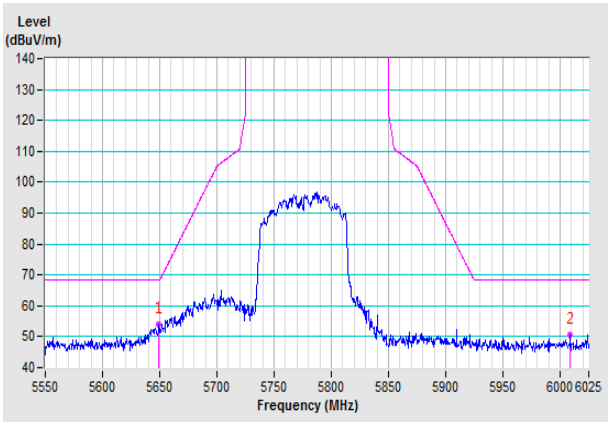
Horizontal	Vertical
	

CH 159 5795 MHz

Horizontal	Vertical
	

802.11ac (VHT80)

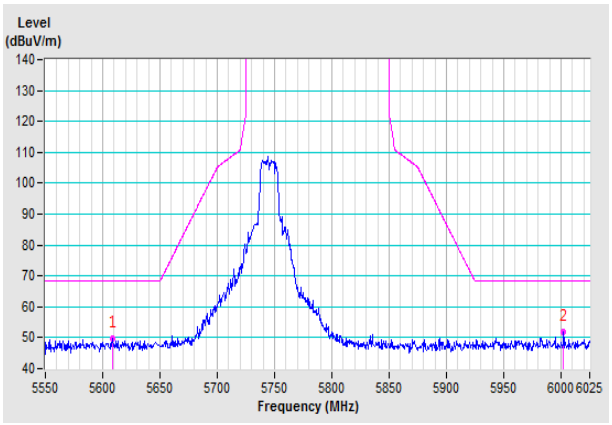
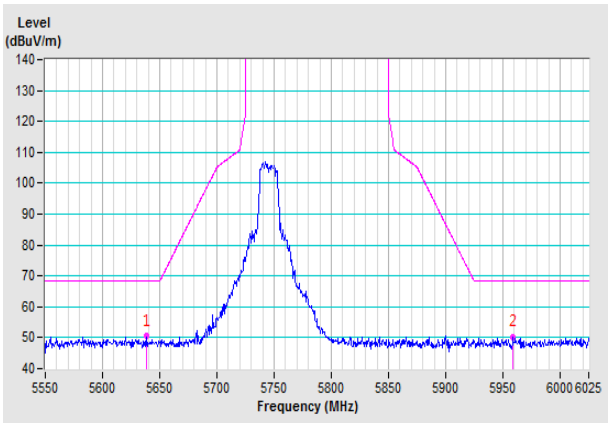
CH 155 5775 MHz

Horizontal	Vertical
	

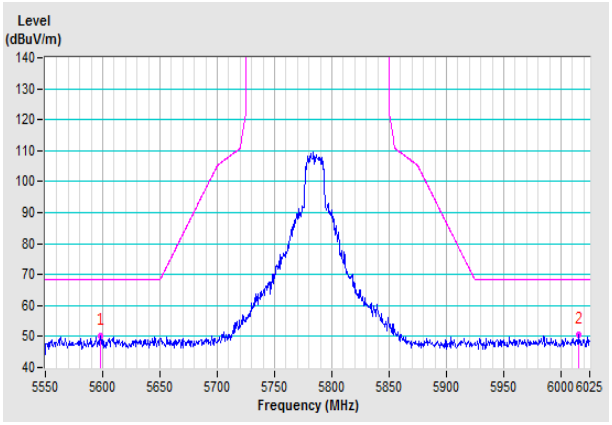
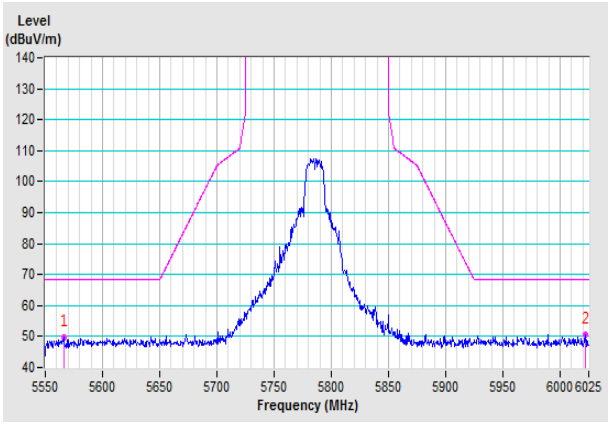
Annex B- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)-Mode 2

802.11a

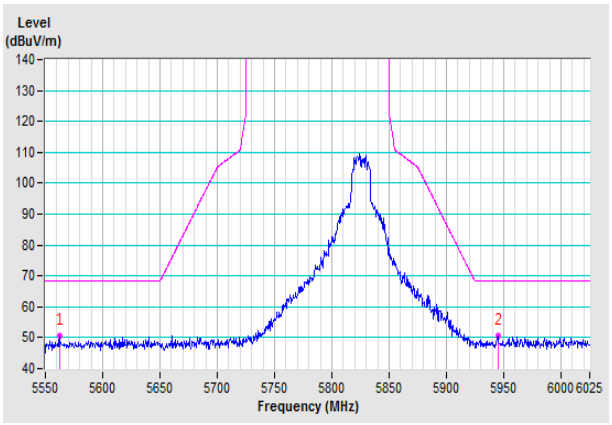
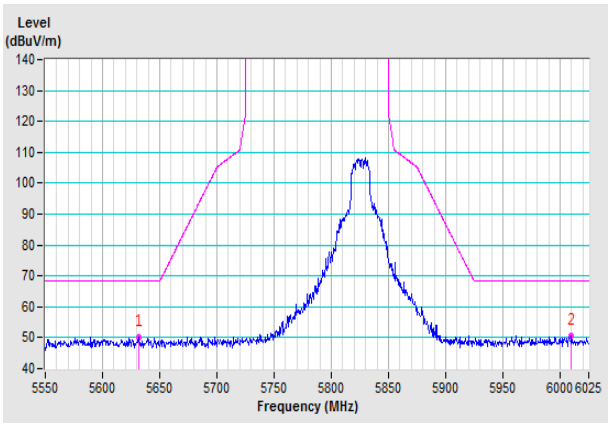
CH 149 5745 MHz

Horizontal	Vertical
	

CH 157 5785 MHz

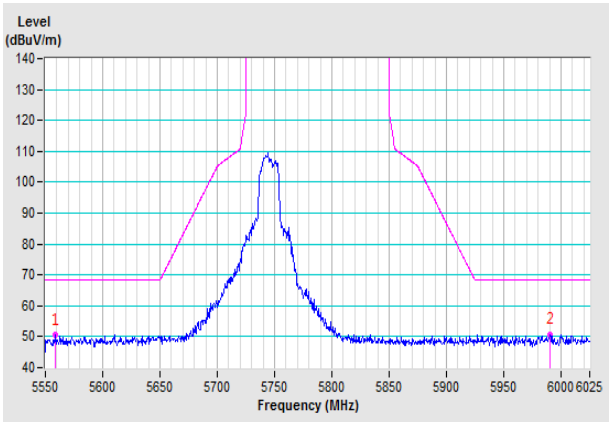
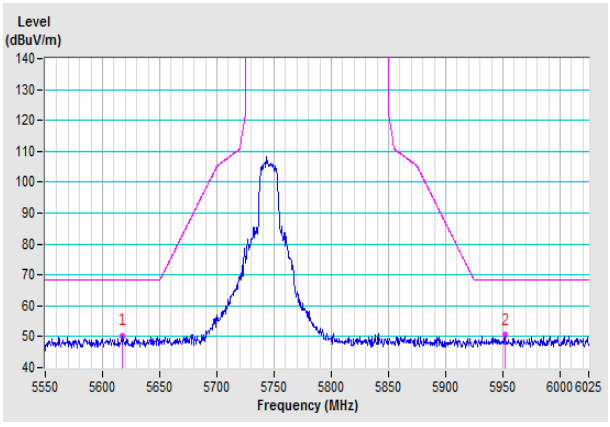
Horizontal	Vertical
	

CH 165 5825 MHz

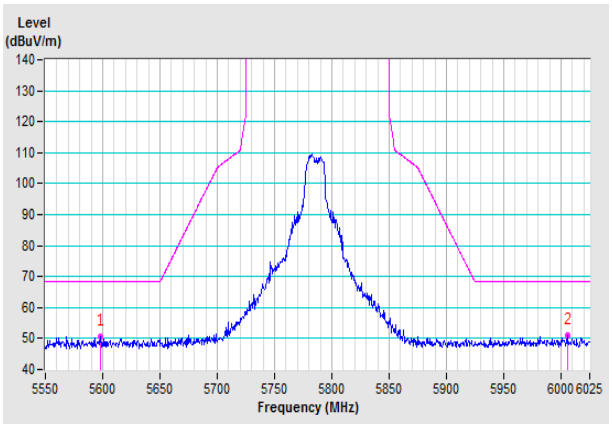
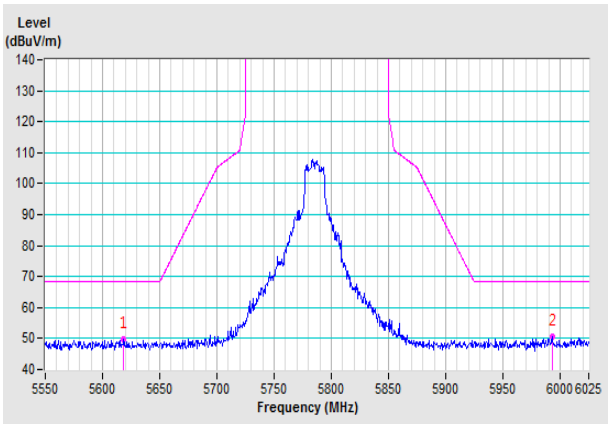
Horizontal	Vertical
	

802.11ac (VHT20)

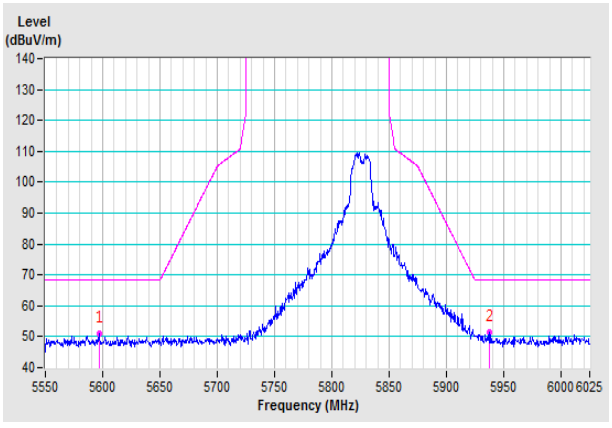
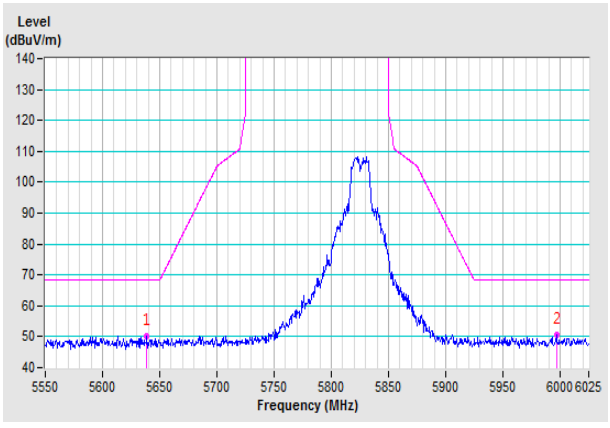
CH 149 5745 MHz

Horizontal	Vertical
	

CH 157 5785 MHz

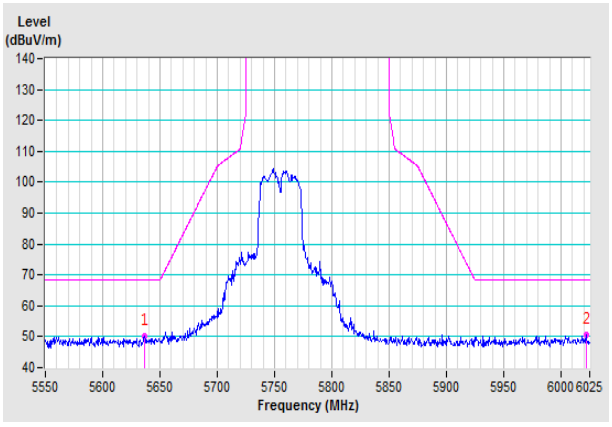
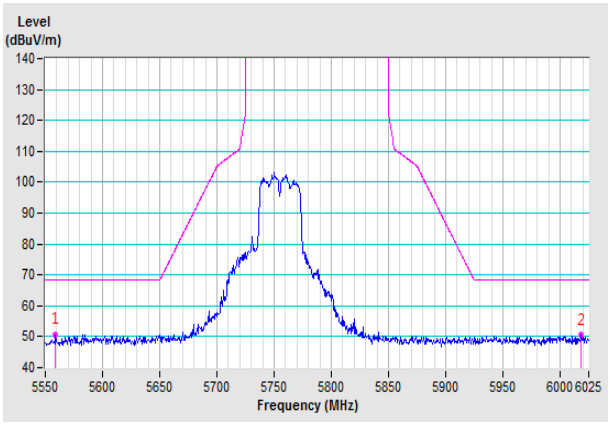
Horizontal	Vertical
	

CH 165 5825 MHz

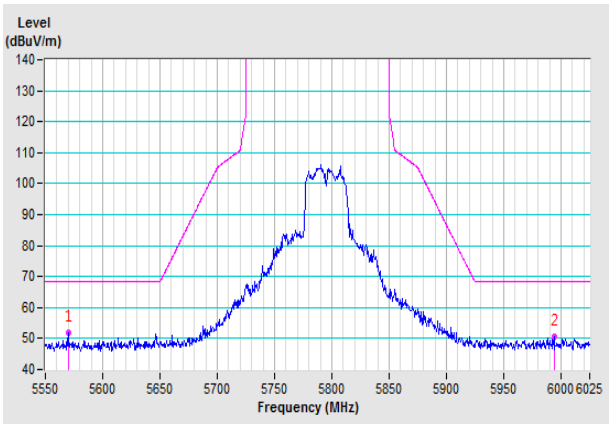
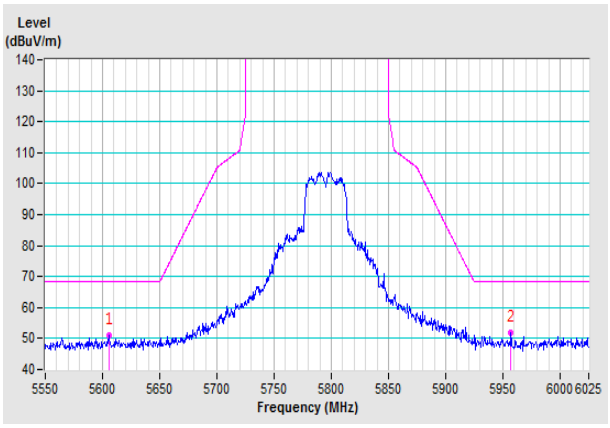
Horizontal	Vertical
	

802.11ac (VHT40)

CH 151 5755 MHz

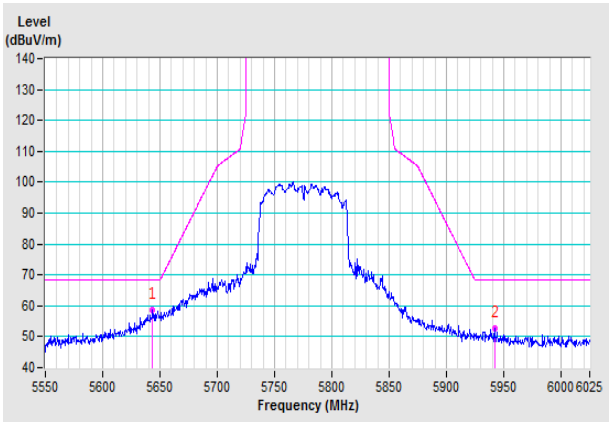
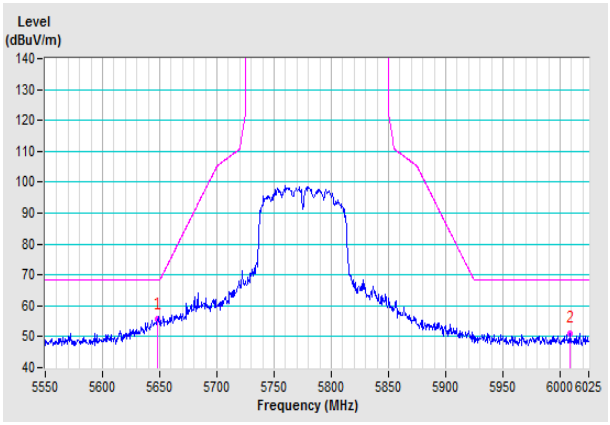
Horizontal	Vertical
	

CH 159 5795 MHz

Horizontal	Vertical
	

802.11ac (VHT80)

CH 155 5775 MHz

Horizontal	Vertical
	

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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