FCC Test Report

Report No.:	RF160407E10-1
FCC ID:	WBV-AP550
Test Model:	AP550
Received Date:	Apr. 07, 2016
Test Date:	May 07 ~ Jun. 22, 2016
Issued Date:	Jun. 27, 2016
Applicant:	Aerohive Networks Inc.
Address:	1011 McCarthy Blvd, Milpitas, CA 95035, USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
Test Location (1):	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.
Test Location (2):	No. 49, Ln. 206, Wende Rd., Shangshan Tsuen, Chiung Lin Hsiang, Hsin Chu Hsien 307, Taiwan R.O.C.

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Release Control Record

Issue No.	Description	Date Issued
RF160407E10-1	Original release	Jun. 27, 2016

1 Certificate of Conformity

Product:	Access Point
Brand:	Aerohive
Test Model:	AP550
Sample Status:	Engineering sample
Applicant:	Aerohive Networks Inc.
Test Date:	May 07 ~ Jun. 22, 2016
Standards:	47 CFR FCC Part 15, Subpart E (Section 15.407) ANSI C63.10:2013

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

Prepared by : Celine Chou , **Date:** Jun. 27, 2016

Celine Chou / Specialist

Approved by : , **Date:** Jun. 27, 2016

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 -13.02dB at 24.00000MHz.
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 5949.95MHz, 5650.70MHz, 5150.00MHz, 5390.00MHz, 5147.00MHz and 5145.00MHz.
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 i-pex 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	1.83 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	5.31 dB
	200MHz ~1000MHz	3.40 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	3.73 dB
	18GHz ~ 40GHz	4.11 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Access Point
Brand	Aerohive
Test Model	AP550
Status of EUT	Engineering sample
Power Supply Rating	12Vdc from adapter 55Vdc from PoE
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	OFDM
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 600.0Mbps 802.11ac: up to 1733.3Mbps
Operating Frequency	5180 ~ 5240MHz, 5745 ~ 5825MHz
Number of Channel	5180 ~ 5240MHz: 4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20) 2 for 802.11n (HT40), 802.11ac (VHT40) 1 for 802.11ac (VHT80)
Output Power	Radio 1: 4TX CDD Mode 5180 ~ 5240MHz: 340.030mW 5745 ~ 5825MHz: 557.083mW 4TX TxBF Mode 5180 ~ 5240MHz: 264.422mW 5745 ~ 5825MHz: 261.050mW 2TX CDD Mode 5180 ~ 5240MHz: 240.444mW 5745 ~ 5825MHz: 265.790mW 2TX TxBF Mode 5180 ~ 5240MHz: 240.444mW 5745 ~ 5825MHz: 265.790mW

Output Power	Radio 2: 4TX with PIFA antenna CDD Mode 5180 ~ 5240MHz: 389.426mW 5745 ~ 5825MHz: 570.274mW 4TX with PIFA antenna TxBF Mode 5180 ~ 5240MHz: 277.120mW 5745 ~ 5825MHz: 262.682mW 2TX with PIFA antenna CDD Mode 5180 ~ 5240MHz: 247.284mW 5745 ~ 5825MHz: 221.566mW 2TX with PIFA antenna TxBF Mode 5180 ~ 5240MHz: 137.579mW 5745 ~ 5825MHz: 221.566mW
Antenna Type	Refer to Note
Antenna Connector	i-pex
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

1. There are three radios for the EUT.

Radio	Function
Radio 1	WLAN 2.4G & 5G
Radio 2	WLAN 5G
Radio 3	BT EDR & BT LE

2. The EUT incorporates a MIMO function. Physically, the EUT provides 4 completed transmitters and 4 receivers.

Modulation Mode	TX Function	Beamforming
Radio 1		
802.11a	2TX/4TX	Not Support
802.11n (HT20)	2TX/4TX	Support
802.11n (HT40)	2TX/4TX	Support
802.11ac (VHT20)	2TX/4TX	Support
802.11ac (VHT40)	2TX/4TX	Support
802.11ac (VHT80)	2TX/4TX	Support
Radio 2		
802.11a	2TX/4TX	Not Support
802.11n (HT20)	2TX/4TX	Support
802.11n (HT40)	2TX/4TX	Support
802.11ac (VHT20)	2TX/4TX	Support
802.11ac (VHT40)	2TX/4TX	Support
802.11ac (VHT80)	2TX/4TX	Support

*The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 and 802.11ac mode for VHT20 / VHT40, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

3. The following antennas were provided to the EUT.

Radio	Ant. No.	Chain No.	Antenna Gain(dBi) (Including cable loss)	Frequency range	Antenna Type	Connecter Type	*Cable Loss(dB)	*Cable Length
1	Ant. 1	Chain 0	4.00 5.84 5.92 5.29 5.78	2.4~2.4835GHz 5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	PIFA	i-pex	0.39	95
	Ant. 2	Chain 1	3.41 5.88 5.36 5.84 5.72	2.4~2.4835GHz 5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	PIFA	i-pex	0.41	100
	Ant. 3	Chain 2	3.77 5.64 5.49 5.31 5.75	2.4~2.4835GHz 5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	PIFA	i-pex	0.65	160
	Ant. 4	Chain 3	3.94 5.39 5.91 5.67 5.92	2.4~2.4835GHz 5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	PIFA	i-pex	0.83	203
2	Ant. 5	Chain 0	5.11 5.50 5.08 5.40	5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	PIFA	i-pex	0.4	98
	Ant. 6	Chain 1	5.55 5.02 5.30 5.94	5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	PIFA	i-pex	0.32	78
	Ant. 7	Chain 2	5.62 5.78 5.67 5.64	5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	PIFA	i-pex	0.6	148
	Ant. 8	Chain 3	5.23 5.69 5.75 5.73	5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	PIFA	i-pex	0.87	213
	Ant. 10	Chain 0	4.70 5.31 5.68 4.74	5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	Dipole	i-pex	0.23	57
	Ant. 11	Chain 1	5.15 5.25 4.50 5.20	5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	Dipole	i-pex	0.44	107
	Ant. 12	Chain 2	4.53 4.55 4.42 5.21	5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	Dipole	i-pex	0.68	167
	Ant. 13	Chain 3	4.87 4.69 4.95 4.41	5.15~5.25GHz 5.25~5.35GHz 5.47~5.725GHz 5.725~5.85GHz	Dipole	i-pex	0.93	227
3	Ant. 9	Chain 0	5.83	2.4~2.4835GHz	Dipole	i-pex	0.36	148

* For 2TX: the worst antenna for each mode please refers to section 3.2.1

4. The power setting are list as below:

Radio 1, 4TX, CDD						
	802.11a	802.11ac (VHT20)		802.11ac (VHT40)		802.11ac (VHT80)
CH 36	71	71	CH 38	50	CH 42	44
CH 40	73	73	CH 46	78	CH 155	72
CH 48	73	73	CH 151	85		
CH 149	88	88	CH 159	88		
CH 157	88	88				
CH 165	88	88				
Radio 1 2TX, CDD						
	802.11a	802.11ac (VHT20)		802.11ac (VHT40)		802.11ac (VHT80)
CH 36	76	75	CH 38	52	CH 42	52
CH 40	88	88	CH 46	83	CH 155	78
CH 48	74	74	CH 151	88		
CH 149	88	88	CH 159	88		
CH 157	88	88				
CH 165	88	88				
Radio 2, PIFA, 4TX, CDD						
	802.11a	802.11ac (VHT20)		802.11ac (VHT40)		802.11ac (VHT80)
CH 36	75	71	CH 38	58	CH 42	50
CH 40	75	75	CH 46	78	CH 155	75
CH 48	75	75	CH 151	88		
CH 149	88	88	CH 159	88		
CH 157	88	88				
CH 165	88	88				
Radio 2, PIFA, 2TX, CDD						
	802.11a	802.11ac (VHT20)		802.11ac (VHT40)		802.11ac (VHT80)
CH 36	77	76	CH 38	66	CH 42	51
CH 40	78	78	CH 46	85	CH 155	80
CH 48	78	78	CH 151	88		
CH 149	88	88	CH 159	88		
CH 157	88	88				
CH 165	88	88				

Radio 1, 4TX, TxBF					
	802.11ac (VHT20)		802.11ac (VHT40)		802.11ac (VHT80)
CH 36	71	CH 38	50	CH 42	44
CH 40	73	CH 46	73	CH 155	71
CH 48	73	CH 151	72		
CH 149	72	CH 159	72		
CH 157	72				
CH 165	72				
Radio 1, 2TX, TxBF					
	802.11ac (VHT20)		802.11ac (VHT40)		802.11ac (VHT80)
CH 36	75	CH 38	52	CH 42	52
CH 40	88	CH 46	83	CH 155	78
CH 48	74	CH 151	88		
CH 149	88	CH 159	88		
CH 157	88				
CH 165	88				
Radio 2, PIFA, 4TX, TxBF					
	802.11ac (VHT20)		802.11ac (VHT40)		802.11ac (VHT80)
CH 36	71	CH 38	58	CH 42	50
CH 40	75	CH 46	72	CH 155	73
CH 48	75	CH 151	74		
CH 149	74	CH 159	74		
CH 157	74				
CH 165	74				
Radio 2, PIFA, 2TX, TxBF					
	802.11ac (VHT20)		802.11ac (VHT40)		802.11ac (VHT80)
CH 36	76	CH 38	66	CH 42	51
CH 40	78	CH 46	75	CH 155	80
CH 48	78	CH 151	88		
CH 149	88	CH 159	88		
CH 157	88				
CH 165	88				

5. The EUT uses following adapter & PoE. (Support unit only)

Adapter	
Brand	DVE
Model	DSA-36PFH-12FUS
Input Power	100-240Vac, 50/60Hz, 1A
Output Power	12.0Vdc, 3.0A
Power Line	1.5m DC cable without core attached on adapter

PoE	
Brand	PowerDsine
Model	PD-9001GR/AT/AC
Input Power	100-240Vac, 50/60Hz, 0.67A
Output Power	55Vdc, 0.6A

3.2 Description of Test Modes

For 5180 ~ 5240MHz

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

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

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

For 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with PoE mode
B	-	√	√	-	EUT with Adapter mode

Where **RE≥1G:** Radiated Emission above 1GHz & Bandedge Measurement **RE<1G:** Radiated Emission below 1GHz

PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

Note:

1. The EUT had been pre-tested on the positioned of each 2 axis. The worst case was following as below.
   - For the Radio 1 above 1GHz was found when positioned on X-plane.
   - For the Radio 2 above 1GHz was found when positioned on X-plane.
   - For the Radio 1 and Radio 2 below 1GHz was found when positioned on Y-plane.
2. "-" means no effect.

Radiated Emission Test (Above 1GHz):

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

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

For Radio 1								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 2, 3, 4)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a		36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 2)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 2, 3, 4)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11a		149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 4)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	

For Radio 2								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 5, 6, 7, 8)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a		36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 6, 7)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a		36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 2 with Dipole ant., CDD (Ant. 10, 11, 12, 13)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a		36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 2 with Dipole ant., CDD (Ant. 11, 13)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 5, 6, 7, 8)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11a		149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 6, 8)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11a		149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 2 with Dipole ant., CDD (Ant. 10, 11, 12, 13)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11a		149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 2 with Dipole ant., CDD (Ant. 11, 12)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	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.

For Radio 1								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A, B	802.11ac (VHT20)	5180-5240	36 to 48	157	OFDM	BPSK	6.5	Radio 1, CDD (Ant. 1, 2, 3, 4)
	802.11ac (VHT20)	5745-5825	149 to 165		OFDM	BPSK	6.5	
For Radio 2								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A, B	802.11ac (VHT20)	5180-5240	36 to 48	157	OFDM	BPSK	6.5	Radio 2 with PIFA ant., CDD (Ant. 5, 6, 7, 8)
	802.11ac (VHT20)	5745-5825	149 to 165		OFDM	BPSK	6.5	
A, B	802.11ac (VHT20)	5180-5240	36 to 48	157	OFDM	BPSK	6.5	Radio 2 with Dipole ant., CDD (Ant. 10, 11, 12, 13)
	802.11ac (VHT20)	5745-5825	149 to 165		OFDM	BPSK	6.5	

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.

For Radio 1								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A, B	802.11ac (VHT20)	5180-5240	36 to 48	157	OFDM	BPSK	6.5	Radio 1, CDD (Ant. 1, 2, 3, 4)
	802.11ac (VHT20)	5745-5825	149 to 165		OFDM	BPSK	6.5	
For Radio 2								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A, B	802.11ac (VHT20)	5180-5240	36 to 48	157	OFDM	BPSK	6.5	Radio 2 with Dipole ant., CDD (Ant. 10, 11, 12, 13
	802.11ac (VHT20)	5745-5825	149 to 165		OFDM	BPSK	6.5	

Transmit Power 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.

For Radio 1								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 2, 3, 4)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	Radio 1, TxBF (Ant. 1, 2, 3, 4)
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a		36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 2)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	Radio 1, TxBF (Ant. 1, 2)
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 2, 3, 4)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	Radio 1, TxBF (Ant. 1, 2, 3, 4)
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11a		149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 4)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	Radio 1, TxBF (Ant. 1, 4)
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	

For Radio 2								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 5, 6, 7, 8)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	Radio 2 with PIFA ant., TxBF (Ant. 5, 6, 7, 8)
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a		36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 6, 7)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	Radio 2 with PIFA ant., TxBF (Ant. 6, 7)
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 5, 6, 7, 8)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	Radio 2 with PIFA ant., TxBF (Ant. 5, 6, 7, 8)
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11a		149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 6, 8)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	Radio 2 with PIFA ant., TxBF (Ant. 6, 8)
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	

Peak Power Spectral Density and Bandwidth 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.

For Radio 1								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 2, 3, 4)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a		36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 2)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 2, 3, 4)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11a		149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 1, CDD (Ant. 1, 4)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
For Radio 2								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 5, 6, 7, 8)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a		36 to 48	36, 40, 48	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 6, 7)
A	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		38 to 46	38, 46	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		42	42	OFDM	BPSK	29.3	
A	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 5, 6, 7, 8)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	
A	802.11a		149 to 165	149, 157, 165	OFDM	BPSK	6.0	Radio 2 with PIFA ant., CDD (Ant. 6, 8)
A	802.11ac (VHT20)		149 to 165	149, 157, 165	OFDM	BPSK	6.5	
A	802.11ac (VHT40)		151 to 159	151, 159	OFDM	BPSK	13.5	
A	802.11ac (VHT80)		155	155	OFDM	BPSK	29.3	

Frequency Stability:

☒ 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.

For Radio 1								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A	802.11ac (VHT20)	5180-5240	36 to 48	36	OFDM	BPSK	6.5	Radio 1
	802.11ac (VHT20)	5745-5825	149 to 165		OFDM	BPSK	6.5	
For Radio 2								
EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	MODE
A	802.11ac (VHT20)	5180-5240	36 to 48	36	OFDM	BPSK	6.5	Radio 2
	802.11ac (VHT20)	5745-5825	149 to 165		OFDM	BPSK	6.5	

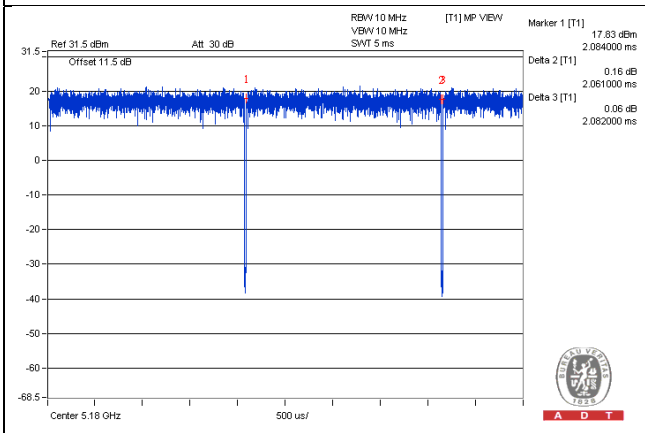
Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE≥1G	21deg. C, 63%RH	120Vac, 60Hz	Tim Ho
	25deg. C, 65%RH	120Vac, 60Hz	Tim Ho
	25deg. C, 65%RH	120Vac, 60Hz	Robert Cheng
	22deg. C, 70%RH	120Vac, 60Hz	Gary Cheng
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Tim Ho
PLC	24deg. C, 61%RH	120Vac, 60Hz	JyunChun Lin
APCM	25deg. C, 60%RH	120Vac, 60Hz	Gary Cheng

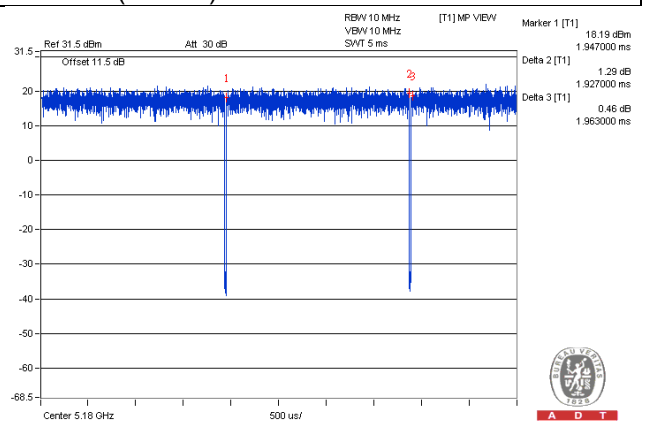
3.3 Duty Cycle of Test Signal

802.11a, 802.11ac (VHT20), 802.11ac (VHT40): Duty cycle of test signal is > 98 %, duty factor is not required.
802.11ac (VHT80): Duty cycle of test signal is < 98 %, duty factor is required.
802.11a: Duty cycle = 2.061/2.082 = 0.990
802.11ac (VHT20): Duty cycle = 1.927/1.963 = 0.982
802.11ac (VHT40): Duty cycle = 0.951/0.970 = 0.980
802.11ac (VHT80): Duty cycle = 0.460/0.479 = 0.960, Duty factor = 10 * log(1/0.960) = 0.18dB

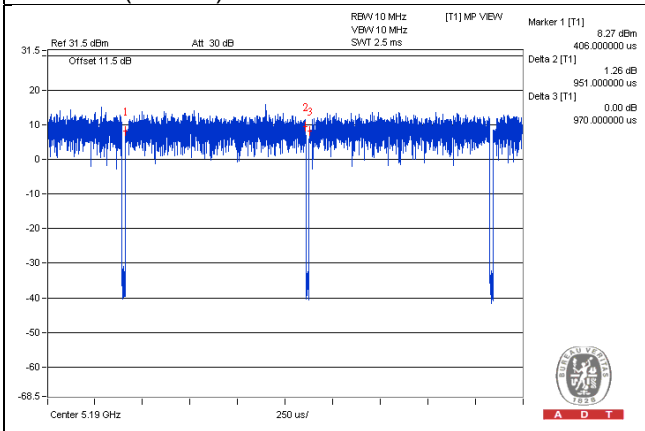
802.11a



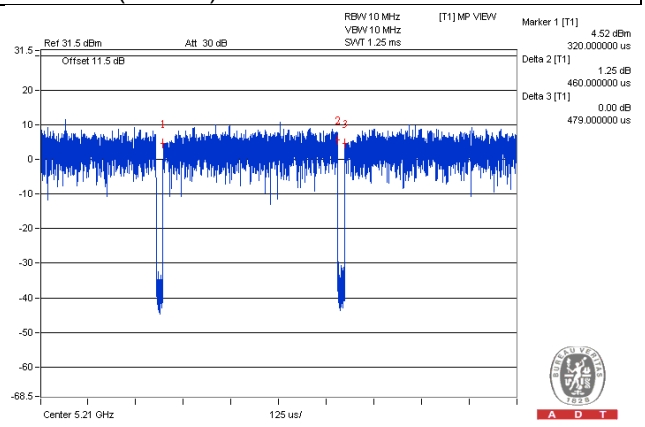
802.11ac (VHT20)



802.11ac (VHT40)



802.11ac (VHT80)



3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5430	HYV4VY1	FCC DoC Approved	-
B.	iPod	Apple	MC749TA/A	CC4DMFJUDFDM	FCC DoC Approved	-
C.	HUB	ZyXEL	ES-116P	S060H02000215	FCC DoC Approved	-
D.	POE	PowerDsine	PD-9001GR/AT/AC	NA	NA	For test mode A
E.	Adapter	DVE	DSA-36PFH-12FUS	NA	NA	For test mode B

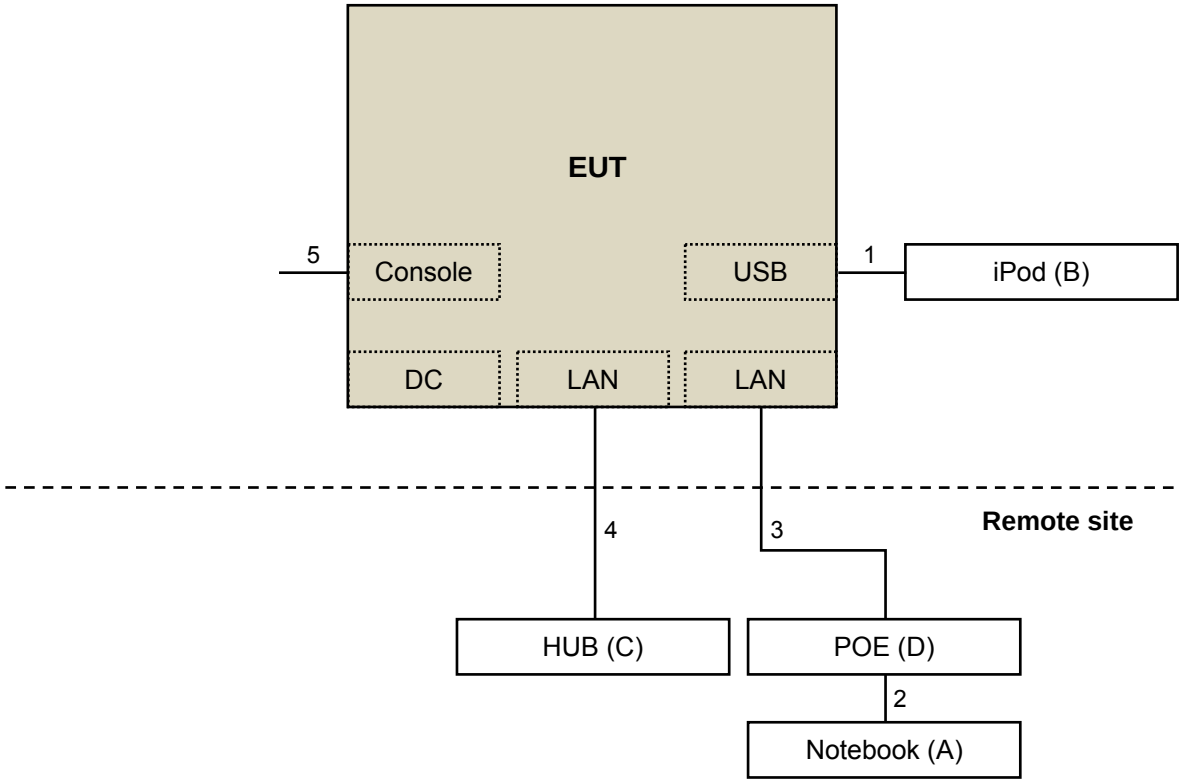
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Items A and C acted as communication partners to transfer data.

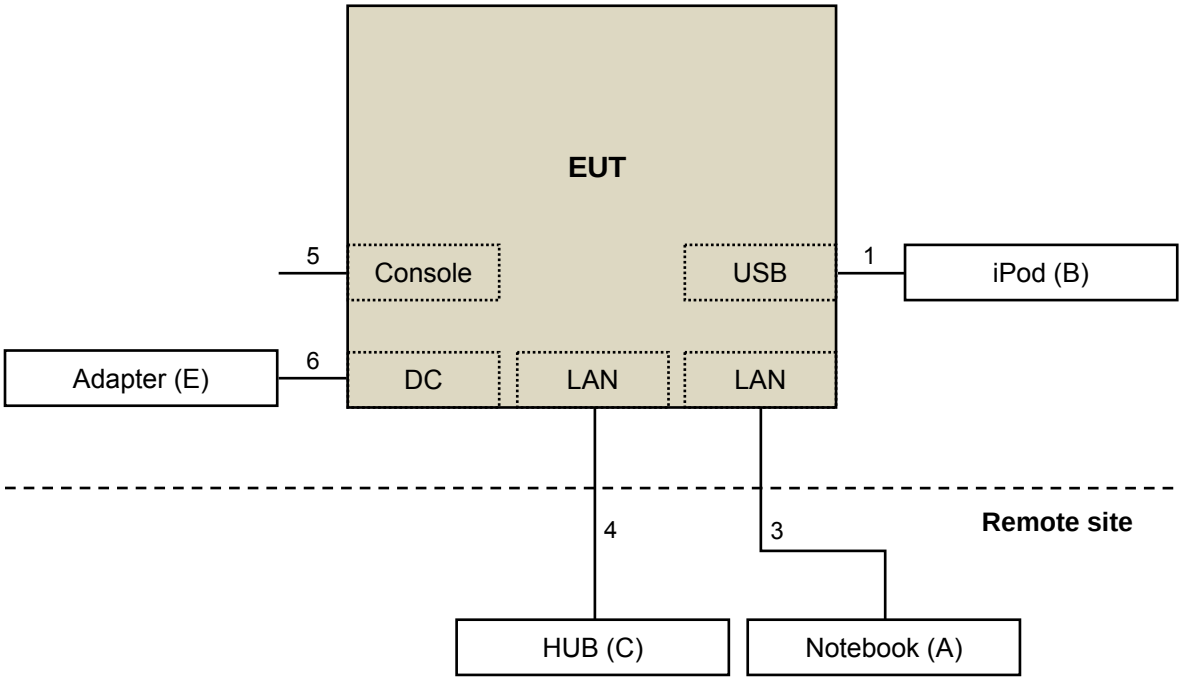
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	0.1	Y	0	-
2.	RJ45 cable	1	3	N	0	Cat5e For test mode A
3.	RJ45 cable	1	10	N	0	Cat5e
4.	RJ45 cable	1	10	N	0	Cat5e
5.	Console cable	1	1.5	N	0	-
6.	DC power cable	1	1.5	N	0	Attached on adapter For test mode B

3.4.1 Configuration of System under Test

Test Mode A



Test Mode B



3.5 General Description of Applied Standards

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

FCC Part 15, Subpart E (15.407)
KDB 789033 D02 General UNII Test Procedure New Rules v01r03
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

<table>
<tr><td colspan="3">Applicable To</td><td colspan="2">Limit</td></tr>
<tr><td colspan="3" rowspan="2">789033 D02 General UNII Test Procedure New Rules v01r03</td><td colspan="2">Field Strength at 3m</td></tr>
<tr><td>PK:74 (dBμV/m)</td><td>AV:54 (dBμV/m)</td></tr>
<tr><td>Frequency Band</td><td colspan="2">Applicable To</td><td>EIRP Limit</td><td>Equivalent Field Strength at 3m</td></tr>
<tr><td>5150~5250 MHz</td><td colspan="2">15.407(b)(1)</td><td rowspan="3">PK:-27 (dBm/MHz)</td><td rowspan="3">PK:68.2(dBμV/m)</td></tr>
<tr><td>5250~5350 MHz</td><td colspan="2">15.407(b)(2)</td></tr>
<tr><td>5470~5725 MHz</td><td colspan="2">15.407(b)(3)</td></tr>
<tr><td rowspan="2">5725~5850 MHz</td><td>☒</td><td>15.407(b)(4)(i)</td><td>PK:-27 (dBm/MHz) *1
PK:10 (dBm/MHz) *2
PK:15.6 (dBm/MHz) *3
PK:27 (dBm/MHz) *4</td><td>PK: 68.2(dBμV/m) *1
PK:105.2 (dBμV/m) *2
PK: 110.8(dBμV/m) *3
PK:122.2 (dBμV/m) *4</td></tr>
<tr><td>☐</td><td>15.407(b)(4)(ii)</td><td colspan="2">Emission limits in section 15.247(d)</td></tr>
<tr><td colspan="5">*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.</td></tr>
</table>

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

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver Agilent	N9038A	MY50010156	Aug. 12, 2015	Aug. 11, 2016
Pre-Amplifier(*) EMCI	EMC001340	980142	Jan. 20, 2016	Jan. 19, 2018
Loop Antenna(*) Electro-Metrics	EM-6879	264	Dec. 16, 2014	Dec. 15, 2016
RF Cable	NA	LOOPCAB-001 LOOPCAB-002	Jan. 18, 2016	Jan. 17, 2017
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	May 07, 2016	May 06, 2017
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-156	Jan. 04, 2016	Jan. 03, 2017
RF Cable	8D	966-3-1 966-3-2 966-3-3	Apr. 02, 2016	Apr. 01, 2017
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Jan. 20, 2016	Jan. 19, 2017
Pre-Amplifier Agilent	8449B	3008A02465	Apr. 05, 2016	Apr. 04, 2017
RF Cable	EMC104-SM-SM-2000 EMC104-SM-SM-5000 EMC104-SM-SM-5000	150317 150321 150322	Mar. 30, 2016	Mar. 29, 2017
Spectrum Analyzer Keysight	N9030A	MY54490520	July 26, 2015	July 25, 2016
Pre-Amplifier EMCI	EMC184045	980143	Jan. 15, 2016	Jan. 14, 2017
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Jan. 08, 2016	Jan. 07, 2017
RF Cable	SUCOFLEX 102	36432/2 36441/2	Jan. 16, 2016	Jan. 15, 2017
Software	ADT_Radiated_V8.7.07	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. The FCC Site Registration No. is 147459
4. The CANADA Site Registration No. is 20331-1
5. Tested Date: May 07 ~ Jun. 22, 2016

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer R&S	FSP40	100060	May 11, 2016	May 10, 2017
Spectrum Analyzer Agilent	E4446A	MY48250253	Dec. 22, 2015	Dec. 21, 2016
Power meter Anritsu	ML2495A	1014008	May 5, 2016	May 4, 2017
Power sensor Anritsu	MA2411B	0917122	May 5, 2016	May 4, 2017
AC Power Source Extech Electronics	6205	1440452	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 15, 2016	Jan. 14, 2017
DC Power Supply Topward	6603D	795558	NA	NA
ESG Vector signal generator Agilent	E4438C	MY45094468/005 506 602 UK6 UNJ	Dec. 01, 2015	Nov. 30, 2016
Mech Switch Absorptive Mini-Circuits	MSP4TA-18+	0140	Mar. 19, 2016	Mar. 18, 2017
FXD ATTEN Mini-Circuits	BW-S3W2+	MN71981	Mar. 19, 2016	Mar. 18, 2017
Software	ADT_RF Test Software V6.6.5.3	NA	NA	NA

Note:
1. The test was performed in Oven room 2.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: Jun. 03 ~ Jun. 07, 2016

4.1.3 Test Procedures

a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

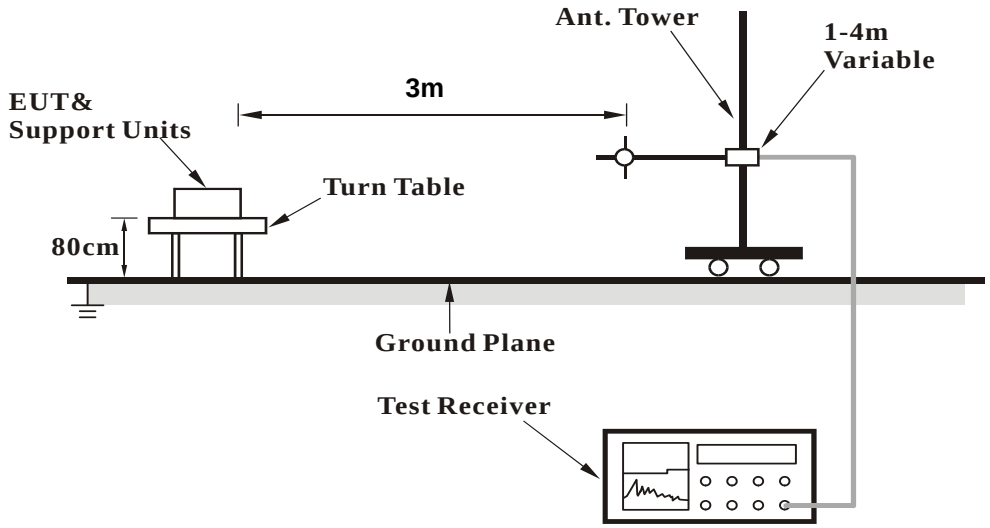
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

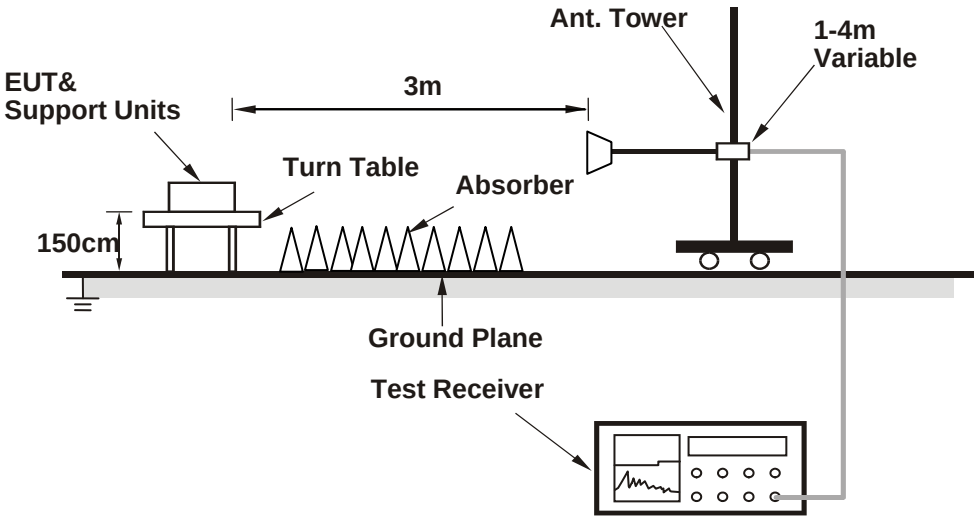
No deviation.

4.1.5 Test Set Up

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

4.1.6 EUT Operating Conditions

a. Placed the EUT on the testing table.
b. Prepared notebook to act as communication partner and placed it outside of testing area.
c. The communication partner connected with EUT via a RJ45 cable and ran a test program (MTool_REL_2_0_3_2) to enable EUT under transmission condition continuously at specific channel frequency.
d. The communication partner sent data to EUT by command "PING".

4.1.7 Test Results

Above 1GHz Worst-Case Data:

Radio 1 - 4TX CDD Mode

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	50.4 PK	74.0	-23.6	1.02 H	33	47.4	3.0
2	5150.00	38.4 AV	54.0	-15.6	1.02 H	33	35.4	3.0
3	*5180.00	103.5 PK			1.02 H	33	100.4	3.1
4	*5180.00	92.5 AV			1.02 H	33	89.4	3.1
5	#10360.00	50.2 PK	74.0	-23.8	1.03 H	65	36.6	13.6
6	#10360.00	40.5 AV	54.0	-13.5	1.03 H	65	26.9	13.6
7	15540.00	51.9 PK	74.0	-22.1	1.86 H	350	36.2	15.7
8	15540.00	40.5 AV	54.0	-13.5	1.86 H	350	24.8	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	73.5 PK	74.0	-0.5	2.35 V	252	70.5	3.0
2	5150.00	51.9 AV	54.0	-2.1	2.35 V	252	48.9	3.0
3	*5180.00	117.2 PK			2.83 V	262	114.1	3.1
4	*5180.00	108.0 AV			2.83 V	262	104.9	3.1
5	#10360.00	52.1 PK	74.0	-21.9	3.06 V	327	38.5	13.6
6	#10360.00	42.1 AV	54.0	-11.9	3.06 V	327	28.5	13.6
7	15540.00	52.1 PK	74.0	-21.9	3.72 V	208	36.4	15.7
8	15540.00	40.7 AV	54.0	-13.3	3.72 V	208	25.0	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	103.5 PK			1.04 H	21	100.4	3.1
2	*5200.00	92.6 AV			1.04 H	21	89.5	3.1
3	#10400.00	50.6 PK	74.0	-23.4	1.00 H	60	37.0	13.6
4	#10400.00	41.0 AV	54.0	-13.0	1.00 H	60	27.4	13.6
5	15600.00	51.7 PK	74.0	-22.3	1.84 H	333	36.0	15.7
6	15600.00	40.5 AV	54.0	-13.5	1.84 H	333	24.8	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	117.5 PK			2.79 V	267	114.4	3.1
2	*5200.00	108.0 AV			2.79 V	267	104.9	3.1
3	#10400.00	51.0 PK	74.0	-23.0	3.14 V	340	37.4	13.6
4	#10400.00	40.3 AV	54.0	-13.7	3.14 V	340	26.7	13.6
5	15600.00	51.3 PK	74.0	-22.7	3.84 V	225	35.6	15.7
6	15600.00	39.6 AV	54.0	-14.4	3.84 V	225	23.9	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	103.6 PK			1.06 H	29	100.4	3.2
2	*5240.00	92.5 AV			1.06 H	29	89.3	3.2
3	5350.00	48.6 PK	74.0	-25.4	1.06 H	29	45.1	3.5
4	5350.00	36.8 AV	54.0	-17.2	1.06 H	29	33.3	3.5
5	#10480.00	50.7 PK	74.0	-23.3	1.03 H	74	36.7	14.0
6	#10480.00	40.8 AV	54.0	-13.2	1.03 H	74	26.8	14.0
7	15720.00	51.6 PK	74.0	-22.4	1.93 H	341	36.2	15.4
8	15720.00	40.2 AV	54.0	-13.8	1.93 H	341	24.8	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	116.9 PK			2.84 V	256	113.7	3.2
2	*5240.00	107.7 AV			2.84 V	256	104.5	3.2
3	5350.00	48.5 PK	74.0	-25.5	2.84 V	256	45.0	3.5
4	5350.00	36.9 AV	54.0	-17.1	2.84 V	256	33.4	3.5
5	#10480.00	51.2 PK	74.0	-22.8	3.18 V	346	37.2	14.0
6	#10480.00	40.7 AV	54.0	-13.3	3.18 V	346	26.7	14.0
7	15720.00	51.4 PK	74.0	-22.6	3.74 V	223	36.0	15.4
8	15720.00	39.7 AV	54.0	-14.3	3.74 V	223	24.3	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5579.45	54.1 PK	68.2	-14.1	2.44 H	30	50.2	3.9
2	*5745.00	105.3 PK			2.44 H	30	101.1	4.2
3	*5745.00	96.2 AV			2.44 H	30	92.0	4.2
4	#5986.05	54.5 PK	68.2	-13.7	2.44 H	30	50.0	4.5
5	11490.00	53.0 PK	74.0	-21.0	1.58 H	137	37.8	15.2
6	11490.00	40.7 AV	54.0	-13.3	1.58 H	137	25.5	15.2
7	#17235.00	56.1 PK	74.0	-17.9	2.33 H	283	36.1	20.0
8	#17235.00	40.9 AV	54.0	-13.1	2.33 H	283	20.9	20.0
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	#5578.02	61.4 PK	68.2	-6.8	2.54 V	35	57.5	3.9
2	*5745.00	121.5 PK			2.54 V	35	117.3	4.2
3	*5745.00	111.8 AV			2.54 V	35	107.6	4.2
4	#5988.90	62.6 PK	68.2	-5.6	2.54 V	35	58.1	4.5
5	11490.00	59.0 PK	74.0	-15.0	2.33 V	283	43.8	15.2
6	11490.00	49.5 AV	54.0	-4.5	2.33 V	283	34.3	15.2
7	#17235.00	55.6 PK	74.0	-18.4	1.58 V	137	35.6	20.0
8	#17235.00	45.6 AV	54.0	-8.4	1.58 V	137	25.6	20.0

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)
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	#5550.48	54.2 PK	68.2	-14.0	2.66 H	33	50.3	3.9
2	*5785.00	105.7 PK			2.66 H	33	101.6	4.1
3	*5785.00	96.5 AV			2.66 H	33	92.4	4.1
4	#6024.05	54.5 PK	68.2	-13.7	2.66 H	33	49.9	4.6
5	11570.00	52.3 PK	74.0	-21.7	1.58 H	137	37.2	15.1
6	11570.00	40.0 AV	54.0	-14.0	1.58 H	137	24.9	15.1
7	#17355.00	56.0 PK	74.0	-18.0	2.33 H	283	35.5	20.5
8	#17355.00	41.0 AV	54.0	-13.0	2.33 H	283	20.5	20.5
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	#5619.82	63.5 PK	68.2	-4.7	2.56 V	41	59.5	4.0
2	*5785.00	120.6 PK			2.71 V	35	116.5	4.1
3	*5785.00	112.2 AV			2.71 V	35	108.1	4.1
4	#5944.73	63.1 PK	68.2	-5.1	2.56 V	41	58.7	4.4
5	11570.00	59.2 PK	74.0	-14.8	2.30 V	281	44.1	15.1
6	11570.00	49.3 AV	54.0	-4.7	2.30 V	281	34.2	15.1
7	#17355.00	55.5 PK	74.0	-18.5	1.58 V	147	35.0	20.5
8	#17355.00	46.0 AV	54.0	-8.0	1.58 V	147	25.5	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5579.45	53.8 PK	68.2	-14.4	2.61 H	30	49.9	3.9
2	*5825.00	105.4 PK			2.61 H	30	101.2	4.2
3	*5825.00	96.2 AV			2.61 H	30	92.0	4.2
4	#5986.05	53.4 PK	68.2	-14.8	2.61 H	30	48.9	4.5
5	11650.00	52.7 PK	74.0	-21.3	1.61 H	135	37.7	15.0
6	11650.00	40.5 AV	54.0	-13.5	1.61 H	135	25.5	15.0
7	#17475.00	55.5 PK	74.0	-18.5	2.27 H	270	34.4	21.1
8	#17475.00	40.4 AV	54.0	-13.6	2.27 H	270	19.3	21.1
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	#5587.05	60.0 PK	68.2	-8.2	2.49 V	34	56.1	3.9
2	*5825.00	120.6 PK			2.49 V	34	116.4	4.2
3	*5825.00	111.8 AV			2.49 V	34	107.6	4.2
4	#5982.73	62.6 PK	68.2	-5.6	2.49 V	34	58.1	4.5
5	11650.00	60.0 PK	74.0	-14.0	2.24 V	281	45.0	15.0
6	11650.00	50.1 AV	54.0	-3.9	2.24 V	281	35.1	15.0
7	#17475.00	56.3 PK	74.0	-17.7	1.61 V	152	35.2	21.1
8	#17475.00	46.4 AV	54.0	-7.6	1.61 V	152	25.3	21.1

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)
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	48.0 PK	74.0	-26.0	1.06 H	27	45.0	3.0
2	5150.00	36.5 AV	54.0	-17.5	1.06 H	27	33.5	3.0
3	*5180.00	103.5 PK			1.06 H	27	100.4	3.1
4	*5180.00	92.6 AV			1.06 H	27	89.5	3.1
5	#10360.00	51.2 PK	74.0	-22.8	1.05 H	57	37.6	13.6
6	#10360.00	41.1 AV	54.0	-12.9	1.05 H	57	27.5	13.6
7	15540.00	51.0 PK	74.0	-23.0	1.82 H	343	35.3	15.7
8	15540.00	39.8 AV	54.0	-14.2	1.82 H	343	24.1	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	73.8 PK	74.0	-0.2	2.51 V	230	70.8	3.0
2	5150.00	52.2 AV	54.0	-1.8	2.51 V	230	49.2	3.0
3	*5180.00	116.2 PK			2.51 V	230	113.1	3.1
4	*5180.00	106.9 AV			2.51 V	230	103.8	3.1
5	#10360.00	52.8 PK	74.0	-21.2	3.12 V	333	39.2	13.6
6	#10360.00	42.6 AV	54.0	-11.4	3.12 V	333	29.0	13.6
7	15540.00	52.3 PK	74.0	-21.7	3.78 V	207	36.6	15.7
8	15540.00	40.9 AV	54.0	-13.1	3.78 V	207	25.2	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	104.0 PK			1.01 H	40	100.9	3.1
2	*5200.00	92.9 AV			1.01 H	40	89.8	3.1
3	#10400.00	50.0 PK	74.0	-24.0	1.03 H	67	36.4	13.6
4	#10400.00	40.5 AV	54.0	-13.5	1.03 H	67	26.9	13.6
5	15600.00	51.2 PK	74.0	-22.8	1.90 H	349	35.5	15.7
6	15600.00	40.2 AV	54.0	-13.8	1.90 H	349	24.5	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	116.2 PK			2.73 V	207	113.1	3.1
2	*5200.00	106.7 AV			2.73 V	207	103.6	3.1
3	#10400.00	53.0 PK	74.0	-21.0	3.12 V	339	39.4	13.6
4	#10400.00	42.8 AV	54.0	-11.2	3.12 V	339	29.2	13.6
5	15600.00	52.1 PK	74.0	-21.9	3.81 V	191	36.4	15.7
6	15600.00	40.4 AV	54.0	-13.6	3.81 V	191	24.7	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	102.9 PK			1.08 H	30	99.7	3.2
2	*5240.00	92.2 AV			1.08 H	30	89.0	3.2
3	5350.00	48.0 PK	74.0	-26.0	1.08 H	30	44.5	3.5
4	5350.00	36.6 AV	54.0	-17.4	1.08 H	30	33.1	3.5
5	#10480.00	50.4 PK	74.0	-23.6	1.00 H	63	36.4	14.0
6	#10480.00	40.6 AV	54.0	-13.4	1.00 H	63	26.6	14.0
7	15720.00	51.5 PK	74.0	-22.5	1.82 H	326	36.1	15.4
8	15720.00	40.2 AV	54.0	-13.8	1.82 H	326	24.8	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	116.2 PK			2.72 V	129	113.0	3.2
2	*5240.00	106.8 AV			2.72 V	129	103.6	3.2
3	5350.00	48.3 PK	74.0	-25.7	2.72 V	129	44.8	3.5
4	5350.00	36.6 AV	54.0	-17.4	2.72 V	129	33.1	3.5
5	#10480.00	52.9 PK	74.0	-21.1	3.07 V	323	38.9	14.0
6	#10480.00	42.7 AV	54.0	-11.3	3.07 V	323	28.7	14.0
7	15720.00	52.9 PK	74.0	-21.1	3.82 V	214	37.5	15.4
8	15720.00	41.3 AV	54.0	-12.7	3.82 V	214	25.9	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5590.85	53.3 PK	68.2	-14.9	3.08 H	33	49.4	3.9
2	*5745.00	106.2 PK			3.08 H	33	102.0	4.2
3	*5745.00	96.4 AV			3.08 H	33	92.2	4.2
4	#6004.57	53.5 PK	68.2	-14.7	3.08 H	33	49.0	4.5
5	11490.00	50.2 PK	74.0	-23.8	1.00 H	81	35.0	15.2
6	11490.00	40.7 AV	54.0	-13.3	1.00 H	81	25.5	15.2
7	#17235.00	50.7 PK	74.0	-23.3	1.82 H	328	30.7	20.0
8	#17235.00	39.8 AV	54.0	-14.2	1.82 H	328	19.8	20.0
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	#5586.57	61.9 PK	68.2	-6.3	3.37 V	31	58.0	3.9
2	*5745.00	121.2 PK			3.37 V	31	117.0	4.2
3	*5745.00	111.4 AV			3.37 V	31	107.2	4.2
4	#5991.75	62.2 PK	68.2	-6.0	3.37 V	31	57.7	4.5
5	11490.00	59.4 PK	74.0	-14.6	3.04 V	329	44.2	15.2
6	11490.00	50.0 AV	54.0	-4.0	3.04 V	329	34.8	15.2
7	#17235.00	56.0 PK	74.0	-18.0	3.70 V	202	36.0	20.0
8	#17235.00	46.2 AV	54.0	-7.8	3.70 V	202	26.2	20.0

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)
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	#5631.23	53.9 PK	68.2	-14.3	3.08 H	32	49.9	4.0
2	*5785.00	106.3 PK			3.08 H	32	102.2	4.1
3	*5785.00	96.7 AV			3.08 H	32	92.6	4.1
4	#5959.93	53.4 PK	68.2	-14.8	3.08 H	32	48.9	4.5
5	11570.00	50.6 PK	74.0	-23.4	1.00 H	72	35.5	15.1
6	11570.00	40.6 AV	54.0	-13.4	1.00 H	72	25.5	15.1
7	#17355.00	51.1 PK	74.0	-22.9	1.92 H	322	30.6	20.5
8	#17355.00	40.1 AV	54.0	-13.9	1.92 H	322	19.6	20.5
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	#5621.73	62.4 PK	68.2	-5.8	2.91 V	34	58.4	4.0
2	*5785.00	120.0 PK			2.91 V	34	115.9	4.1
3	*5785.00	110.1 AV			2.91 V	34	106.0	4.1
4	#5946.15	59.5 PK	68.2	-8.7	2.91 V	34	55.1	4.4
5	11570.00	59.1 PK	74.0	-14.9	3.15 V	322	44.0	15.1
6	11570.00	49.9 AV	54.0	-4.1	3.15 V	322	34.8	15.1
7	#17355.00	56.1 PK	74.0	-17.9	3.69 V	200	35.6	20.5
8	#17355.00	46.5 AV	54.0	-7.5	3.69 V	200	26.0	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5557.60	52.8 PK	68.2	-15.4	3.18 H	32	48.9	3.9
2	*5825.00	106.3 PK			3.18 H	32	102.1	4.2
3	*5825.00	96.6 AV			3.18 H	32	92.4	4.2
4	#5981.30	54.4 PK	68.2	-13.8	3.18 H	32	49.9	4.5
5	11650.00	50.7 PK	74.0	-23.3	1.06 H	55	35.7	15.0
6	11650.00	40.6 AV	54.0	-13.4	1.06 H	55	25.6	15.0
7	#17475.00	51.3 PK	74.0	-22.7	1.92 H	340	30.2	21.1
8	#17475.00	40.1 AV	54.0	-13.9	1.92 H	340	19.0	21.1
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	#5588.95	59.3 PK	68.2	-8.9	2.78 V	248	55.4	3.9
2	*5825.00	118.7 PK			2.78 V	248	114.5	4.2
3	*5825.00	109.9 AV			2.78 V	248	105.7	4.2
4	#5993.18	60.6 PK	68.2	-7.6	2.78 V	248	56.1	4.5
5	11650.00	59.4 PK	74.0	-14.6	3.05 V	311	44.4	15.0
6	11650.00	49.7 AV	54.0	-4.3	3.05 V	311	34.7	15.0
7	#17475.00	55.8 PK	74.0	-18.2	3.72 V	196	34.7	21.1
8	#17475.00	46.1 AV	54.0	-7.9	3.72 V	196	25.0	21.1

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)
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	58.0 PK	74.0	-16.0	3.12 H	45	55.0	3.0
2	5150.00	45.8 AV	54.0	-8.2	3.12 H	45	42.8	3.0
3	*5190.00	94.2 PK			3.12 H	45	91.1	3.1
4	*5190.00	83.2 AV			3.12 H	45	80.1	3.1
5	#10380.00	50.8 PK	74.0	-23.2	1.03 H	69	37.1	13.7
6	#10380.00	41.2 AV	54.0	-12.8	1.03 H	69	27.5	13.7
7	15570.00	51.4 PK	74.0	-22.6	1.86 H	350	35.8	15.6
8	15570.00	40.2 AV	54.0	-13.8	1.86 H	350	24.6	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	5150.00	68.3 PK	74.0	-5.7	2.74 V	134	65.3	3.0
2	5150.00	53.2 AV	54.0	-0.8	2.74 V	134	50.2	3.0
3	*5190.00	109.2 PK			2.74 V	134	106.1	3.1
4	*5190.00	98.4 AV			2.74 V	134	95.3	3.1
5	#10380.00	51.5 PK	74.0	-22.5	3.08 V	352	37.8	13.7
6	#10380.00	41.0 AV	54.0	-13.0	3.08 V	352	27.3	13.7
7	15570.00	51.1 PK	74.0	-22.9	3.76 V	225	35.5	15.6
8	15570.00	39.8 AV	54.0	-14.2	3.76 V	225	24.2	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)
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	64.2 PK	74.0	-9.8	3.23 H	20	61.2	3.0
2	5150.00	43.2 AV	54.0	-10.8	3.23 H	20	40.2	3.0
3	*5230.00	100.3 PK			3.23 H	20	97.1	3.2
4	*5230.00	90.8 AV			3.23 H	20	87.6	3.2
5	5385.00	57.8 PK	74.0	-16.2	3.23 H	20	54.1	3.7
6	5385.00	45.8 AV	54.0	-8.2	3.23 H	20	42.1	3.7
7	#10460.00	50.4 PK	74.0	-23.6	1.00 H	83	36.5	13.9
8	#10460.00	40.8 AV	54.0	-13.2	1.00 H	83	26.9	13.9
9	15690.00	51.3 PK	74.0	-22.7	1.85 H	345	35.7	15.6
10	15690.00	39.8 AV	54.0	-14.2	1.85 H	345	24.2	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.6 PK	74.0	-2.4	2.66 V	334	68.6	3.0
2	5150.00	51.8 AV	54.0	-2.2	2.66 V	334	48.8	3.0
3	*5230.00	115.3 PK			2.86 V	135	112.1	3.2
4	*5230.00	105.7 AV			2.86 V	135	102.5	3.2
5	5385.00	63.2 PK	74.0	-10.8	2.79 V	40	59.5	3.7
6	5385.00	53.8 AV	54.0	-0.2	2.79 V	40	50.1	3.7
7	#10460.00	50.7 PK	74.0	-23.3	3.12 V	340	36.8	13.9
8	#10460.00	40.5 AV	54.0	-13.5	3.12 V	340	26.6	13.9
9	15690.00	51.5 PK	74.0	-22.5	3.77 V	220	35.9	15.6
10	15690.00	40.1 AV	54.0	-13.9	3.77 V	220	24.5	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)
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	#5646.90	58.1 PK	68.2	-10.1	3.07 H	29	54.1	4.0
2	*5755.00	102.4 PK			3.07 H	29	98.2	4.2
3	*5755.00	92.2 AV			3.07 H	29	88.0	4.2
4	#5932.37	56.1 PK	68.2	-12.1	3.07 H	29	51.7	4.4
5	11510.00	50.9 PK	74.0	-23.1	1.01 H	60	35.8	15.1
6	11510.00	41.1 AV	54.0	-12.9	1.01 H	60	26.0	15.1
7	#17265.00	51.3 PK	74.0	-22.7	1.87 H	337	31.4	19.9
8	#17265.00	40.0 AV	54.0	-14.0	1.87 H	337	20.1	19.9
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	#5643.57	67.5 PK	68.2	-0.7	2.83 V	333	63.5	4.0
2	#5654.02	70.5 PK	71.2	-0.7	2.83 V	333	66.5	4.0
3	*5755.00	117.3 PK			2.35 V	117	113.1	4.2
4	*5755.00	107.1 AV			2.35 V	117	102.9	4.2
5	#5930.48	67.0 PK	68.2	-1.2	2.83 V	333	62.6	4.4
6	11510.00	51.1 PK	74.0	-22.9	3.10 V	324	36.0	15.1
7	11510.00	40.7 AV	54.0	-13.3	3.10 V	324	25.6	15.1
8	#17265.00	51.5 PK	74.0	-22.5	3.71 V	234	31.6	19.9
9	#17265.00	40.1 AV	54.0	-13.9	3.71 V	234	20.2	19.9

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)
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	#5631.23	57.5 PK	68.2	-10.7	3.22 H	27	53.5	4.0
2	*5795.00	101.4 PK			3.22 H	27	97.3	4.1
3	*5795.00	91.4 AV			3.22 H	27	87.3	4.1
4	#5952.32	56.3 PK	68.2	-11.9	3.22 H	27	51.9	4.4
5	11590.00	51.1 PK	74.0	-22.9	1.01 H	69	36.0	15.1
6	11590.00	41.1 AV	54.0	-12.9	1.01 H	69	26.0	15.1
7	#17385.00	51.4 PK	74.0	-22.6	1.86 H	341	30.8	20.6
8	#17385.00	40.1 AV	54.0	-13.9	1.86 H	341	19.5	20.6
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	#5646.90	67.5 PK	68.2	-0.7	2.41 V	39	63.5	4.0
2	*5795.00	116.3 PK			2.41 V	39	112.2	4.1
3	*5795.00	106.7 AV			2.41 V	39	102.6	4.1
4	**#5949.95**	**68.1 PK**	**68.2**	**-0.1**	**2.41 V**	**39**	**63.7**	**4.4**
5	11590.00	50.8 PK	74.0	-23.2	3.12 V	349	35.7	15.1
6	11590.00	40.4 AV	54.0	-13.6	3.12 V	349	25.3	15.1
7	#17385.00	51.2 PK	74.0	-22.8	3.72 V	214	30.6	20.6
8	#17385.00	39.9 AV	54.0	-14.1	3.72 V	214	19.3	20.6

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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CHANNEL	TX Channel 42	DETECTOR 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	5147.00	57.8 PK	74.0	-16.2	3.18 H	21	54.8	3.0
2	5147.00	46.0 AV	54.0	-8.0	3.18 H	21	43.0	3.0
3	*5210.00	90.1 PK			3.18 H	21	86.9	3.2
4	*5210.00	82.1 AV			3.18 H	21	78.9	3.2
5	5350.00	50.2 PK	74.0	-23.8	3.18 H	21	46.7	3.5
6	5350.00	39.8 AV	54.0	-14.2	3.18 H	21	36.3	3.5
7	#10420.00	50.6 PK	74.0	-23.4	1.00 H	72	36.8	13.8
8	#10420.00	40.6 AV	54.0	-13.4	1.00 H	72	26.8	13.8
9	15630.00	50.7 PK	74.0	-23.3	1.83 H	324	35.0	15.7
10	15630.00	39.8 AV	54.0	-14.2	1.83 H	324	24.1	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5147.00	65.4 PK	74.0	-8.6	2.57 V	36	62.4	3.0
2	5147.00	53.3 AV	54.0	-0.7	2.57 V	36	50.3	3.0
3	*5210.00	105.4 PK			2.57 V	36	102.2	3.2
4	*5210.00	96.8 AV			2.57 V	36	93.6	3.2
5	5350.00	56.6 PK	74.0	-17.4	2.57 V	36	53.1	3.5
6	5350.00	45.5 AV	54.0	-8.5	2.57 V	36	42.0	3.5
7	#10420.00	50.7 PK	74.0	-23.3	3.11 V	350	36.9	13.8
8	#10420.00	40.4 AV	54.0	-13.6	3.11 V	350	26.6	13.8
9	15630.00	51.6 PK	74.0	-22.4	3.81 V	222	35.9	15.7
10	15630.00	40.3 AV	54.0	-13.7	3.81 V	222	24.6	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5641.68	58.5 PK	68.2	-9.7	3.18 H	30	54.5	4.0
2	*5775.00	96.2 PK			3.18 H	30	92.0	4.2
3	*5775.00	86.2 AV			3.18 H	30	82.0	4.2
4	#5932.37	56.1 PK	68.2	-12.1	3.18 H	30	51.7	4.4
5	11550.00	50.8 PK	74.0	-23.2	1.01 H	83	35.6	15.2
6	11550.00	41.0 AV	54.0	-13.0	1.01 H	83	25.8	15.2
7	#17325.00	51.4 PK	74.0	-22.6	1.82 H	339	31.1	20.3
8	#17325.00	40.1 AV	54.0	-13.9	1.82 H	339	19.8	20.3
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	**#5650.70**	**68.6 PK**	**68.7**	**-0.1**	**2.89 V**	**147**	**64.6**	**4.0**
2	*5775.00	111.1 PK			2.89 V	147	106.9	4.2
3	*5775.00	101.3 AV			2.89 V	147	97.1	4.2
4	#5963.73	66.0 PK	68.2	-2.2	2.89 V	147	61.5	4.5
5	11550.00	50.0 PK	74.0	-24.0	3.08 V	348	34.8	15.2
6	11550.00	40.0 AV	54.0	-14.0	3.08 V	348	24.8	15.2
7	#17325.00	51.8 PK	74.0	-22.2	3.79 V	231	31.5	20.3
8	#17325.00	40.5 AV	54.0	-13.5	3.79 V	231	20.2	20.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Radio 1 - 2TX CDD Mode

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	60.3 PK	74.0	-13.7	1.22 H	18	57.3	3.0
2	5150.00	45.9 AV	54.0	-8.1	1.22 H	18	42.9	3.0
3	*5180.00	105.8 PK			1.22 H	18	102.7	3.1
4	*5180.00	96.7 AV			1.22 H	18	93.6	3.1
5	#10360.00	51.7 PK	74.0	-22.3	1.04 H	71	38.1	13.6
6	#10360.00	41.6 AV	54.0	-12.4	1.04 H	71	28.0	13.6
7	15540.00	51.0 PK	74.0	-23.0	1.91 H	332	35.3	15.7
8	15540.00	39.9 AV	54.0	-14.1	1.91 H	332	24.2	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.3 PK	74.0	-5.7	2.60 V	335	65.3	3.0
2	5150.00	53.7 AV	54.0	-0.3	2.60 V	335	50.7	3.0
3	*5180.00	114.2 PK			2.60 V	335	111.1	3.1
4	*5180.00	104.9 AV			2.60 V	335	101.8	3.1
5	#10360.00	60.1 PK	74.0	-13.9	3.08 V	323	46.5	13.6
6	#10360.00	49.5 AV	54.0	-4.5	3.08 V	323	35.9	13.6
7	15540.00	51.3 PK	74.0	-22.7	1.63 V	220	35.6	15.7
8	15540.00	41.1 AV	54.0	-12.9	1.63 V	220	25.4	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5150.00	50.8 PK	74.0	-23.2	1.20 H	23	47.8	3.0
2	5150.00	40.2 AV	54.0	-13.8	1.20 H	23	37.2	3.0
3	*5200.00	107.0 PK			1.20 H	23	103.9	3.1
4	*5200.00	97.0 AV			1.20 H	23	93.9	3.1
5	5352.80	51.4 PK	74.0	-22.6	1.20 H	23	47.9	3.5
6	5352.80	39.3 AV	54.0	-14.7	1.20 H	23	35.8	3.5
7	#10400.00	51.2 PK	74.0	-22.8	1.03 H	56	37.6	13.6
8	#10400.00	41.2 AV	54.0	-12.8	1.03 H	56	27.6	13.6
9	15600.00	51.6 PK	74.0	-22.4	1.92 H	340	35.9	15.7
10	15600.00	40.2 AV	54.0	-13.8	1.92 H	340	24.5	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.3 PK	74.0	-16.7	2.47 V	343	54.3	3.0
2	5150.00	46.0 AV	54.0	-8.0	2.47 V	343	43.0	3.0
3	*5200.00	116.8 PK			2.47 V	343	113.7	3.1
4	*5200.00	106.2 AV			2.47 V	343	103.1	3.1
5	5352.80	57.5 PK	74.0	-16.5	2.47 V	343	54.0	3.5
6	5352.80	46.8 AV	54.0	-7.2	2.47 V	343	43.3	3.5
7	#10400.00	60.2 PK	74.0	-13.8	3.05 V	319	46.6	13.6
8	#10400.00	49.6 AV	54.0	-4.4	3.05 V	319	36.0	13.6
9	15600.00	52.1 PK	74.0	-21.9	1.65 V	223	36.4	15.7
10	15600.00	41.6 AV	54.0	-12.4	1.65 V	223	25.9	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5077.00	51.3 PK	74.0	-22.7	1.18 H	26	48.5	2.8
2	5077.00	39.1 AV	54.0	-14.9	1.18 H	26	36.3	2.8
3	*5240.00	106.8 PK			1.18 H	26	103.6	3.2
4	*5240.00	97.3 AV			1.18 H	26	94.1	3.2
5	5392.50	51.3 PK	74.0	-22.7	1.18 H	26	47.6	3.7
6	5392.50	40.6 AV	54.0	-13.4	1.18 H	26	36.9	3.7
7	#10480.00	50.7 PK	74.0	-23.3	1.00 H	46	36.7	14.0
8	#10480.00	40.7 AV	54.0	-13.3	1.00 H	46	26.7	14.0
9	15720.00	51.5 PK	74.0	-22.5	1.91 H	352	36.1	15.4
10	15720.00	40.4 AV	54.0	-13.6	1.91 H	352	25.0	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5077.00	53.7 PK	74.0	-20.3	3.03 V	133	50.9	2.8
2	5077.00	43.9 AV	54.0	-10.1	3.03 V	133	41.1	2.8
3	*5240.00	115.1 PK			3.03 V	133	111.9	3.2
4	*5240.00	105.4 AV			3.03 V	133	102.2	3.2
5	5392.50	54.9 PK	74.0	-19.1	2.69 V	350	51.2	3.7
6	5392.50	45.2 AV	54.0	-8.8	2.69 V	350	41.5	3.7
7	#10480.00	60.5 PK	74.0	-13.5	3.03 V	316	46.5	14.0
8	#10480.00	49.9 AV	54.0	-4.1	3.03 V	316	35.9	14.0
9	15720.00	52.2 PK	74.0	-21.8	1.61 V	216	36.8	15.4
10	15720.00	41.6 AV	54.0	-12.4	1.61 V	216	26.2	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5582.30	56.8 PK	68.2	-11.4	3.48 H	353	52.9	3.9
2	*5745.00	106.9 PK			3.48 H	353	102.7	4.2
3	*5745.00	97.1 AV			3.48 H	353	92.9	4.2
4	#5992.23	57.2 PK	68.2	-11.0	3.48 H	353	52.7	4.5
5	11490.00	51.1 PK	74.0	-22.9	1.63 H	238	35.9	15.2
6	11490.00	39.0 AV	54.0	-15.0	1.63 H	238	23.8	15.2
7	#17235.00	55.0 PK	74.0	-19.0	1.34 H	179	35.0	20.0
8	#17235.00	42.4 AV	54.0	-11.6	1.34 H	179	22.4	20.0
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	#5581.35	60.5 PK	68.2	-7.7	3.07 V	314	56.6	3.9
2	*5745.00	115.8 PK			3.07 V	314	111.6	4.2
3	*5745.00	106.2 AV			3.07 V	314	102.0	4.2
4	#5989.85	60.6 PK	68.2	-7.6	3.07 V	314	56.1	4.5
5	11490.00	51.5 PK	74.0	-22.5	1.38 V	342	36.3	15.2
6	11490.00	40.5 AV	54.0	-13.5	1.38 V	342	25.3	15.2
7	#17235.00	56.3 PK	74.0	-17.7	1.41 V	236	36.3	20.0
8	#17235.00	43.8 AV	54.0	-10.2	1.41 V	236	23.8	20.0

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)
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	#5597.02	58.2 PK	68.2	-10.0	3.98 H	360	54.3	3.9
2	*5785.00	107.0 PK			3.98 H	360	102.9	4.1
3	*5785.00	97.1 AV			3.98 H	360	93.0	4.1
4	#5940.45	57.8 PK	68.2	-10.4	3.98 H	360	53.4	4.4
5	11570.00	51.2 PK	74.0	-22.8	1.66 H	225	36.1	15.1
6	11570.00	39.1 AV	54.0	-14.9	1.66 H	225	24.0	15.1
7	#17355.00	54.7 PK	74.0	-19.3	1.36 H	180	34.2	20.5
8	#17355.00	42.2 AV	54.0	-11.8	1.36 H	180	21.7	20.5
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	#5630.27	58.8 PK	68.2	-9.4	2.49 V	149	54.8	4.0
2	*5785.00	116.1 PK			2.49 V	149	112.0	4.1
3	*5785.00	106.4 AV			2.49 V	149	102.3	4.1
4	#5939.02	58.8 PK	68.2	-9.4	2.49 V	149	54.4	4.4
5	11570.00	50.9 PK	74.0	-23.1	1.35 V	350	35.8	15.1
6	11570.00	40.1 AV	54.0	-13.9	1.35 V	350	25.0	15.1
7	#17355.00	56.4 PK	74.0	-17.6	1.39 V	238	35.9	20.5
8	#17355.00	43.8 AV	54.0	-10.2	1.39 V	238	23.3	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5622.68	58.1 PK	68.2	-10.1	4.00 H	360	54.1	4.0
2	*5825.00	107.3 PK			4.00 H	360	103.1	4.2
3	*5825.00	97.4 AV			4.00 H	360	93.2	4.2
4	#6017.40	57.7 PK	68.2	-10.5	4.00 H	360	53.2	4.5
5	11650.00	50.7 PK	74.0	-23.3	1.59 H	232	35.7	15.0
6	11650.00	38.8 AV	54.0	-15.2	1.59 H	232	23.8	15.0
7	#17475.00	55.3 PK	74.0	-18.7	1.28 H	173	34.2	21.1
8	#17475.00	42.6 AV	54.0	-11.4	1.28 H	173	21.5	21.1
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	#5590.37	59.2 PK	68.2	-9.0	2.35 V	306	55.3	3.9
2	*5825.00	114.8 PK			2.35 V	306	110.6	4.2
3	*5825.00	104.2 AV			2.35 V	306	100.0	4.2
4	#5952.32	58.3 PK	68.2	-9.9	2.35 V	306	53.9	4.4
5	11650.00	51.9 PK	74.0	-22.1	1.37 V	342	36.9	15.0
6	11650.00	40.7 AV	54.0	-13.3	1.37 V	342	25.7	15.0
7	#17475.00	56.7 PK	74.0	-17.3	1.46 V	225	35.6	21.1
8	#17475.00	44.2 AV	54.0	-9.8	1.46 V	225	23.1	21.1

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)
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	66.9 PK	74.0	-7.1	2.34 H	267	63.9	3.0
2	5150.00	45.9 AV	54.0	-8.1	2.34 H	267	42.9	3.0
3	*5180.00	107.3 PK			2.34 H	267	104.2	3.1
4	*5180.00	97.8 AV			2.34 H	267	94.7	3.1
5	#10360.00	50.6 PK	74.0	-23.4	1.58 H	220	37.0	13.6
6	#10360.00	38.7 AV	54.0	-15.3	1.58 H	220	25.1	13.6
7	15540.00	55.5 PK	74.0	-18.5	1.24 H	161	39.8	15.7
8	15540.00	43.0 AV	54.0	-11.0	1.24 H	161	27.3	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	73.8 PK	74.0	-0.2	2.76 V	328	70.8	3.0
2	5150.00	53.1 AV	54.0	-0.9	2.76 V	328	50.1	3.0
3	*5180.00	114.3 PK			2.76 V	328	111.2	3.1
4	*5180.00	104.6 AV			2.76 V	328	101.5	3.1
5	#10360.00	51.9 PK	74.0	-22.1	1.41 V	351	38.3	13.6
6	#10360.00	41.0 AV	54.0	-13.0	1.41 V	351	27.4	13.6
7	15540.00	56.4 PK	74.0	-17.6	1.44 V	228	40.7	15.7
8	15540.00	43.7 AV	54.0	-10.3	1.44 V	228	28.0	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5150.00	55.2 PK	74.0	-18.8	2.33 H	273	52.2	3.0
2	5150.00	42.5 AV	54.0	-11.5	2.33 H	273	39.5	3.0
3	*5200.00	108.2 PK			2.33 H	273	105.1	3.1
4	*5200.00	98.6 AV			2.33 H	273	95.5	3.1
5	5364.30	50.8 PK	74.0	-23.2	2.33 H	273	47.3	3.5
6	5364.30	39.0 AV	54.0	-15.0	2.33 H	273	35.5	3.5
7	#10400.00	50.5 PK	74.0	-23.5	1.61 H	224	36.9	13.6
8	#10400.00	38.8 AV	54.0	-15.2	1.61 H	224	25.2	13.6
9	15600.00	55.7 PK	74.0	-18.3	1.29 H	167	40.0	15.7
10	15600.00	42.8 AV	54.0	-11.2	1.29 H	167	27.1	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.9 PK	74.0	-16.1	3.04 V	127	54.9	3.0
2	5150.00	45.5 AV	54.0	-8.5	3.04 V	127	42.5	3.0
3	*5200.00	115.0 PK			3.04 V	127	111.9	3.1
4	*5200.00	105.2 AV			3.04 V	127	102.1	3.1
5	5364.30	56.5 PK	74.0	-17.5	3.04 V	127	53.0	3.5
6	5364.30	44.8 AV	54.0	-9.2	3.04 V	127	41.3	3.5
7	#10400.00	52.0 PK	74.0	-22.0	1.33 V	345	38.4	13.6
8	#10400.00	40.7 AV	54.0	-13.3	1.33 V	345	27.1	13.6
9	15600.00	56.8 PK	74.0	-17.2	1.42 V	214	41.1	15.7
10	15600.00	44.2 AV	54.0	-9.8	1.42 V	214	28.5	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	106.6 PK			2.34 H	278	103.4	3.2
2	*5240.00	96.9 AV			2.34 H	278	93.7	3.2
3	5394.00	54.8 PK	74.0	-19.2	2.34 H	278	51.1	3.7
4	5394.00	43.9 AV	54.0	-10.1	2.34 H	278	40.2	3.7
5	#10480.00	50.9 PK	74.0	-23.1	1.60 H	220	36.9	14.0
6	#10480.00	39.1 AV	54.0	-14.9	1.60 H	220	25.1	14.0
7	15720.00	55.2 PK	74.0	-18.8	1.27 H	181	39.8	15.4
8	15720.00	42.6 AV	54.0	-11.4	1.27 H	181	27.2	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	114.0 PK			3.18 V	128	110.8	3.2
2	*5240.00	104.1 AV			3.18 V	128	100.9	3.2
3	5394.00	54.9 PK	74.0	-19.1	3.18 V	128	51.2	3.7
4	5394.00	43.9 AV	54.0	-10.1	3.18 V	128	40.2	3.7
5	#10480.00	52.1 PK	74.0	-21.9	1.43 V	332	38.1	14.0
6	#10480.00	40.9 AV	54.0	-13.1	1.43 V	332	26.9	14.0
7	15720.00	57.2 PK	74.0	-16.8	1.45 V	221	41.8	15.4
8	15720.00	44.6 AV	54.0	-9.4	1.45 V	221	29.2	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5632.65	56.9 PK	68.2	-11.3	2.50 H	244	52.9	4.0
2	*5745.00	108.1 PK			2.50 H	244	103.9	4.2
3	*5745.00	97.9 AV			2.50 H	244	93.7	4.2
4	#5963.73	57.1 PK	68.2	-11.1	2.50 H	244	52.6	4.5
5	11490.00	50.9 PK	74.0	-23.1	1.56 H	233	35.7	15.2
6	11490.00	39.0 AV	54.0	-15.0	1.56 H	233	23.8	15.2
7	#17235.00	54.7 PK	74.0	-19.3	1.31 H	186	34.7	20.0
8	#17235.00	42.2 AV	54.0	-11.8	1.31 H	186	22.2	20.0
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	#5576.60	59.7 PK	68.2	-8.5	3.13 V	157	55.8	3.9
2	*5745.00	115.3 PK			3.13 V	157	111.1	4.2
3	*5745.00	105.4 AV			3.13 V	157	101.2	4.2
4	#5989.37	58.9 PK	68.2	-9.3	3.13 V	157	54.4	4.5
5	11490.00	51.7 PK	74.0	-22.3	1.39 V	343	36.5	15.2
6	11490.00	40.7 AV	54.0	-13.3	1.39 V	343	25.5	15.2
7	#17235.00	56.9 PK	74.0	-17.1	1.47 V	239	36.9	20.0
8	#17235.00	44.2 AV	54.0	-9.8	1.47 V	239	24.2	20.0

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)
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	#5577.07	57.5 PK	68.2	-10.7	2.49 H	234	53.6	3.9
2	*5785.00	107.6 PK			2.49 H	234	103.5	4.1
3	*5785.00	98.2 AV			2.49 H	234	94.1	4.1
4	#5972.27	57.0 PK	68.2	-11.2	2.49 H	234	52.5	4.5
5	11570.00	51.2 PK	74.0	-22.8	1.53 H	248	36.1	15.1
6	11570.00	39.0 AV	54.0	-15.0	1.53 H	248	23.9	15.1
7	#17355.00	55.6 PK	74.0	-18.4	1.30 H	168	35.1	20.5
8	#17355.00	42.8 AV	54.0	-11.2	1.30 H	168	22.3	20.5
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	#5552.37	61.2 PK	68.2	-7.0	2.59 V	307	57.3	3.9
2	*5785.00	115.0 PK			2.59 V	307	110.9	4.1
3	*5785.00	105.4 AV			2.59 V	307	101.3	4.1
4	#6020.73	59.8 PK	68.2	-8.4	2.59 V	307	55.2	4.6
5	11570.00	51.7 PK	74.0	-22.3	1.37 V	333	36.6	15.1
6	11570.00	40.4 AV	54.0	-13.6	1.37 V	333	25.3	15.1
7	#17355.00	56.5 PK	74.0	-17.5	1.48 V	223	36.0	20.5
8	#17355.00	44.2 AV	54.0	-9.8	1.48 V	223	23.7	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5590.85	56.3 PK	68.2	-11.9	2.44 H	224	52.4	3.9
2	*5825.00	108.0 PK			2.44 H	224	103.8	4.2
3	*5825.00	97.9 AV			2.44 H	224	93.7	4.2
4	#5991.27	56.2 PK	68.2	-12.0	2.44 H	224	51.7	4.5
5	11650.00	51.0 PK	74.0	-23.0	1.60 H	247	36.0	15.0
6	11650.00	39.3 AV	54.0	-14.7	1.60 H	247	24.3	15.0
7	#17475.00	55.9 PK	74.0	-18.1	1.31 H	159	34.8	21.1
8	#17475.00	43.0 AV	54.0	-11.0	1.31 H	159	21.9	21.1
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	#5589.90	60.5 PK	68.2	-7.7	2.57 V	308	56.6	3.9
2	*5825.00	115.3 PK			2.57 V	308	111.1	4.2
3	*5825.00	104.9 AV			2.57 V	308	100.7	4.2
4	#5987.95	60.1 PK	68.2	-8.1	2.57 V	308	55.6	4.5
5	11650.00	51.7 PK	74.0	-22.3	1.35 V	354	36.7	15.0
6	11650.00	40.3 AV	54.0	-13.7	1.35 V	354	25.3	15.0
7	#17475.00	56.6 PK	74.0	-17.4	1.41 V	225	35.5	21.1
8	#17475.00	43.8 AV	54.0	-10.2	1.41 V	225	22.7	21.1

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)
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	58.5 PK	74.0	-15.5	2.37 H	281	55.5	3.0
2	5150.00	46.0 AV	54.0	-8.0	2.37 H	281	43.0	3.0
3	*5190.00	100.1 PK			2.37 H	281	97.0	3.1
4	*5190.00	89.6 AV			2.37 H	281	86.5	3.1
5	5356.00	49.6 PK	74.0	-24.4	2.37 H	281	46.1	3.5
6	5356.00	39.8 AV	54.0	-14.2	2.37 H	281	36.3	3.5
7	#10380.00	50.8 PK	74.0	-23.2	1.58 H	229	37.1	13.7
8	#10380.00	39.2 AV	54.0	-14.8	1.58 H	229	25.5	13.7
9	15570.00	55.1 PK	74.0	-18.9	1.32 H	167	39.5	15.6
10	15570.00	42.6 AV	54.0	-11.4	1.32 H	167	27.0	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.0 PK	74.0	-8.0	2.64 V	328	63.0	3.0
2	5150.00	53.2 AV	54.0	-0.8	2.64 V	328	50.2	3.0
3	*5190.00	107.3 PK			2.64 V	349	104.2	3.1
4	*5190.00	96.9 AV			2.64 V	349	93.8	3.1
5	5356.00	56.4 PK	74.0	-17.6	2.64 V	352	52.9	3.5
6	5356.00	46.6 AV	54.0	-7.4	2.64 V	352	43.1	3.5
7	#10380.00	52.3 PK	74.0	-21.7	1.35 V	357	38.6	13.7
8	#10380.00	41.2 AV	54.0	-12.8	1.35 V	357	27.5	13.7
9	15570.00	56.7 PK	74.0	-17.3	1.51 V	222	41.1	15.6
10	15570.00	44.1 AV	54.0	-9.9	1.51 V	222	28.5	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)
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	*5230.00	107.8 PK			2.36 H	263	104.6	3.2
2	*5230.00	97.8 AV			2.36 H	263	94.6	3.2
3	5350.00	57.2 PK	74.0	-16.8	2.36 H	263	53.7	3.5
4	5350.00	46.2 AV	54.0	-7.8	2.36 H	263	42.7	3.5
5	#10460.00	51.2 PK	74.0	-22.8	1.56 H	229	37.3	13.9
6	#10460.00	39.1 AV	54.0	-14.9	1.56 H	229	25.2	13.9
7	15690.00	55.7 PK	74.0	-18.3	1.30 H	183	40.1	15.6
8	15690.00	42.9 AV	54.0	-11.1	1.30 H	183	27.3	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	*5230.00	114.8 PK			2.64 V	349	111.6	3.2
2	*5230.00	104.8 AV			2.64 V	349	101.6	3.2
3	5350.00	64.2 PK	74.0	-9.8	2.64 V	349	60.7	3.5
4	5350.00	53.2 AV	54.0	-0.8	2.64 V	349	49.7	3.5
5	#10460.00	51.5 PK	74.0	-22.5	1.36 V	330	37.6	13.9
6	#10460.00	40.3 AV	54.0	-13.7	1.36 V	330	26.4	13.9
7	15690.00	57.0 PK	74.0	-17.0	1.42 V	240	41.4	15.6
8	15690.00	44.5 AV	54.0	-9.5	1.42 V	240	28.9	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5609.37	56.9 PK	68.2	-11.3	2.72 H	232	53.0	3.9
2	*5755.00	102.7 PK			2.72 H	232	98.5	4.2
3	*5755.00	93.5 AV			2.72 H	232	89.3	4.2
4	#5989.85	54.1 PK	68.2	-14.1	2.72 H	232	49.6	4.5
5	11510.00	51.1 PK	74.0	-22.9	1.56 H	223	36.0	15.1
6	11510.00	39.3 AV	54.0	-14.7	1.56 H	223	24.2	15.1
7	#17265.00	54.8 PK	74.0	-19.2	1.23 H	165	34.9	19.9
8	#17265.00	42.2 AV	54.0	-11.8	1.23 H	165	22.3	19.9
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	#5644.52	65.9 PK	68.2	-2.3	2.39 V	39	61.9	4.0
2	*5755.00	113.2 PK			2.39 V	39	109.0	4.2
3	*5755.00	102.7 AV			2.39 V	39	98.5	4.2
4	#5930.00	60.7 PK	68.2	-7.5	2.39 V	39	56.3	4.4
5	11510.00	52.4 PK	74.0	-21.6	1.42 V	346	37.3	15.1
6	11510.00	40.9 AV	54.0	-13.1	1.42 V	346	25.8	15.1
7	#17265.00	56.0 PK	74.0	-18.0	1.44 V	234	36.1	19.9
8	#17265.00	43.8 AV	54.0	-10.2	1.44 V	234	23.9	19.9

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)
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	#5638.82	54.5 PK	68.2	-13.7	2.71 H	221	50.5	4.0
2	*5795.00	102.7 PK			2.71 H	221	98.6	4.1
3	*5795.00	93.7 AV			2.71 H	221	89.6	4.1
4	#5950.90	56.0 PK	68.2	-12.2	2.71 H	221	51.6	4.4
5	11590.00	50.0 PK	74.0	-24.0	1.59 H	221	34.9	15.1
6	11590.00	38.3 AV	54.0	-15.7	1.59 H	221	23.2	15.1
7	#17385.00	55.1 PK	74.0	-18.9	1.26 H	189	34.5	20.6
8	#17385.00	42.6 AV	54.0	-11.4	1.26 H	189	22.0	20.6
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	#5631.23	62.8 PK	68.2	-5.4	2.39 V	42	58.8	4.0
2	*5795.00	112.9 PK			2.39 V	42	108.8	4.1
3	*5795.00	102.9 AV			2.39 V	42	98.8	4.1
4	#5970.85	60.9 PK	68.2	-7.3	2.39 V	42	56.4	4.5
5	11590.00	51.7 PK	74.0	-22.3	1.31 V	352	36.6	15.1
6	11590.00	40.6 AV	54.0	-13.4	1.31 V	352	25.5	15.1
7	#17385.00	56.7 PK	74.0	-17.3	1.42 V	222	36.1	20.6
8	#17385.00	43.9 AV	54.0	-10.1	1.42 V	222	23.3	20.6

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)
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	65.4 PK	74.0	-8.6	2.32 H	288	62.4	3.0
2	5150.00	46.9 AV	54.0	-7.1	2.32 H	288	43.9	3.0
3	*5210.00	99.4 PK			2.32 H	288	96.2	3.2
4	*5210.00	90.7 AV			2.32 H	288	87.5	3.2
5	5350.00	49.3 PK	74.0	-24.7	2.32 H	288	45.8	3.5
6	5350.00	39.5 AV	54.0	-14.5	2.32 H	288	36.0	3.5
7	#10420.00	50.4 PK	74.0	-23.6	1.61 H	237	36.6	13.8
8	#10420.00	38.4 AV	54.0	-15.6	1.61 H	237	24.6	13.8
9	15630.00	55.8 PK	74.0	-18.2	1.27 H	171	40.1	15.7
10	15630.00	43.1 AV	54.0	-10.9	1.27 H	171	27.4	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	72.5 PK	74.0	-1.5	2.77 V	322	69.5	3.0
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**2.77 V**	**322**	**50.9**	**3.0**
3	*5210.00	106.7 PK			2.77 V	344	103.5	3.2
4	*5210.00	97.9 AV			2.77 V	344	94.7	3.2
5	5350.00	56.3 PK	74.0	-17.7	2.77 V	345	52.8	3.5
6	5350.00	46.2 AV	54.0	-7.8	2.77 V	345	42.7	3.5
7	#10420.00	52.4 PK	74.0	-21.6	1.43 V	334	38.6	13.8
8	#10420.00	40.9 AV	54.0	-13.1	1.43 V	334	27.1	13.8
9	15630.00	56.1 PK	74.0	-17.9	1.49 V	233	40.4	15.7
10	15630.00	43.9 AV	54.0	-10.1	1.49 V	233	28.2	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5632.18	57.6 PK	68.2	-10.6	1.00 H	315	53.6	4.0
2	*5775.00	102.3 PK			2.29 H	298	98.1	4.2
3	*5775.00	90.8 AV			2.29 H	298	86.6	4.2
4	#5927.62	57.7 PK	68.2	-10.5	1.00 H	315	53.3	4.4
5	11550.00	50.6 PK	74.0	-23.4	1.64 H	223	35.4	15.2
6	11550.00	38.7 AV	54.0	-15.3	1.64 H	223	23.5	15.2
7	#17325.00	55.8 PK	74.0	-18.2	1.23 H	167	35.5	20.3
8	#17325.00	42.9 AV	54.0	-11.1	1.23 H	167	22.6	20.3
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	#5628.85	66.5 PK	68.2	-1.7	2.52 V	44	62.5	4.0
2	*5775.00	109.2 PK			2.52 V	44	105.0	4.2
3	*5775.00	97.9 AV			2.52 V	44	93.7	4.2
4	#5945.20	67.2 PK	68.2	-1.0	2.52 V	44	62.8	4.4
5	11550.00	51.5 PK	74.0	-22.5	1.37 V	342	36.3	15.2
6	11550.00	40.2 AV	54.0	-13.8	1.37 V	342	25.0	15.2
7	#17325.00	56.7 PK	74.0	-17.3	1.50 V	236	36.4	20.3
8	#17325.00	44.3 AV	54.0	-9.7	1.50 V	236	24.0	20.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Radio 2 - 4TX with PIFA antenna CDD Mode

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	54.9 PK	74.0	-19.1	1.00 H	142	51.9	3.0
2	5150.00	43.5 AV	54.0	-10.5	1.00 H	142	40.5	3.0
3	*5180.00	108.1 PK			1.00 H	142	105.0	3.1
4	*5180.00	99.7 AV			1.00 H	142	96.6	3.1
5	#10360.00	50.5 PK	74.0	-23.5	1.53 H	303	36.9	13.6
6	#10360.00	39.5 AV	54.0	-14.5	1.53 H	303	25.9	13.6
7	15540.00	50.6 PK	74.0	-23.4	1.44 H	149	34.9	15.7
8	15540.00	40.3 AV	54.0	-13.7	1.44 H	149	24.6	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.7 PK	74.0	-8.3	2.73 V	42	62.7	3.0
2	5150.00	52.9 AV	54.0	-1.1	2.73 V	42	49.9	3.0
3	*5180.00	117.4 PK			2.73 V	42	114.3	3.1
4	*5180.00	110.6 AV			2.73 V	42	107.5	3.1
5	#10360.00	50.1 PK	74.0	-23.9	1.00 V	360	36.5	13.6
6	#10360.00	39.8 AV	54.0	-14.2	1.00 V	360	26.2	13.6
7	15540.00	53.2 PK	74.0	-20.8	1.04 V	356	37.5	15.7
8	15540.00	44.2 AV	54.0	-9.8	1.04 V	356	28.5	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	108.2 PK			1.05 H	151	105.1	3.1
2	*5200.00	99.6 AV			1.05 H	151	96.5	3.1
3	#10400.00	50.1 PK	74.0	-23.9	1.47 H	303	36.5	13.6
4	#10400.00	38.8 AV	54.0	-15.2	1.47 H	303	25.2	13.6
5	15600.00	50.5 PK	74.0	-23.5	1.48 H	153	34.8	15.7
6	15600.00	40.1 AV	54.0	-13.9	1.48 H	153	24.4	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	118.1 PK			2.78 V	49	115.0	3.1
2	*5200.00	111.0 AV			2.78 V	49	107.9	3.1
3	#10400.00	50.4 PK	74.0	-23.6	1.00 V	360	36.8	13.6
4	#10400.00	40.4 AV	54.0	-13.6	1.00 V	360	26.8	13.6
5	15600.00	53.3 PK	74.0	-20.7	1.03 V	356	37.6	15.7
6	15600.00	44.2 AV	54.0	-9.8	1.03 V	356	28.5	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	108.6 PK			1.06 H	145	105.4	3.2
2	*5240.00	99.8 AV			1.06 H	145	96.6	3.2
3	5405.00	49.7 PK	74.0	-24.3	1.06 H	145	46.0	3.7
4	5405.00	39.4 AV	54.0	-14.6	1.06 H	145	35.7	3.7
5	#10480.00	50.2 PK	74.0	-23.8	1.52 H	317	36.2	14.0
6	#10480.00	39.2 AV	54.0	-14.8	1.52 H	317	25.2	14.0
7	15720.00	50.8 PK	74.0	-23.2	1.49 H	142	35.4	15.4
8	15720.00	40.6 AV	54.0	-13.4	1.49 H	142	25.2	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	117.5 PK			2.71 V	34	114.3	3.2
2	*5240.00	110.9 AV			2.71 V	34	107.7	3.2
3	5405.00	51.3 PK	74.0	-22.7	2.71 V	34	47.6	3.7
4	5405.00	42.1 AV	54.0	-11.9	2.71 V	34	38.4	3.7
5	#10480.00	50.6 PK	74.0	-23.4	1.00 V	359	36.6	14.0
6	#10480.00	40.3 AV	54.0	-13.7	1.00 V	359	26.3	14.0
7	15720.00	53.2 PK	74.0	-20.8	1.06 V	346	37.8	15.4
8	15720.00	44.2 AV	54.0	-9.8	1.06 V	346	28.8	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5645.48	53.6 PK	68.2	-14.6	1.00 H	43	49.6	4.0
2	*5745.00	110.8 PK			1.00 H	43	106.6	4.2
3	*5745.00	101.8 AV			1.00 H	43	97.6	4.2
4	#5983.20	53.9 PK	68.2	-14.3	1.00 H	43	49.4	4.5
5	11490.00	49.9 PK	74.0	-24.1	1.54 H	333	34.7	15.2
6	11490.00	39.0 AV	54.0	-15.0	1.54 H	333	23.8	15.2
7	#17235.00	51.0 PK	74.0	-23.0	1.45 H	153	31.0	20.0
8	#17235.00	40.7 AV	54.0	-13.3	1.45 H	153	20.7	20.0
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	#5578.02	62.8 PK	68.2	-5.4	2.59 V	67	58.9	3.9
2	*5745.00	122.8 PK			2.59 V	67	118.6	4.2
3	*5745.00	113.8 AV			2.59 V	67	109.6	4.2
4	#5992.70	61.7 PK	68.2	-6.5	2.59 V	67	57.2	4.5
5	11490.00	50.9 PK	74.0	-23.1	1.03 V	358	35.7	15.2
6	11490.00	40.7 AV	54.0	-13.3	1.03 V	358	25.5	15.2
7	#17235.00	59.0 PK	74.0	-15.0	1.04 V	360	39.0	20.0
8	#17235.00	49.4 AV	54.0	-4.6	1.04 V	360	29.4	20.0

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)
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	#5654.02	54.3 PK	71.2	-16.9	1.00 H	44	50.3	4.0
2	*5785.00	111.2 PK			1.00 H	44	107.1	4.1
3	*5785.00	101.9 AV			1.00 H	44	97.8	4.1
4	#5938.55	55.6 PK	68.2	-12.6	1.00 H	44	51.2	4.4
5	11570.00	49.6 PK	74.0	-24.4	1.55 H	318	34.5	15.1
6	11570.00	38.8 AV	54.0	-15.2	1.55 H	318	23.7	15.1
7	#17355.00	50.4 PK	74.0	-23.6	1.45 H	128	29.9	20.5
8	#17355.00	40.2 AV	54.0	-13.8	1.45 H	128	19.7	20.5
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	#5617.93	64.3 PK	68.2	-3.9	2.52 V	68	60.4	3.9
2	*5785.00	122.9 PK			2.52 V	68	118.8	4.1
3	*5785.00	114.3 AV			2.52 V	68	110.2	4.1
4	#5942.82	62.5 PK	68.2	-5.7	2.52 V	68	58.1	4.4
5	11570.00	50.7 PK	74.0	-23.3	1.00 V	359	35.6	15.1
6	11570.00	40.7 AV	54.0	-13.3	1.00 V	359	25.6	15.1
7	#17355.00	58.6 PK	74.0	-15.4	1.02 V	357	38.1	20.5
8	#17355.00	49.1 AV	54.0	-4.9	1.02 V	357	28.6	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5576.12	55.4 PK	68.2	-12.8	2.44 H	138	51.5	3.9
2	*5825.00	110.8 PK			1.12 H	121	106.6	4.2
3	*5825.00	102.2 AV			1.12 H	121	98.0	4.2
4	#5987.95	53.8 PK	68.2	-14.4	2.44 H	138	49.3	4.5
5	11650.00	49.7 PK	74.0	-24.3	1.56 H	325	34.7	15.0
6	11650.00	38.9 AV	54.0	-15.1	1.56 H	325	23.9	15.0
7	#17475.00	50.8 PK	74.0	-23.2	1.51 H	148	29.7	21.1
8	#17475.00	40.9 AV	54.0	-13.1	1.51 H	148	19.8	21.1
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	#5588.00	62.4 PK	68.2	-5.8	2.80 V	65	58.5	3.9
2	*5825.00	122.9 PK			2.62 V	68	118.7	4.2
3	*5825.00	113.4 AV			2.62 V	68	109.2	4.2
4	#5981.77	61.2 PK	68.2	-7.0	2.80 V	65	56.7	4.5
5	11650.00	50.6 PK	74.0	-23.4	1.04 V	360	35.6	15.0
6	11650.00	40.4 AV	54.0	-13.6	1.04 V	360	25.4	15.0
7	#17475.00	58.6 PK	74.0	-15.4	1.07 V	352	37.5	21.1
8	#17475.00	49.1 AV	54.0	-4.9	1.07 V	352	28.0	21.1

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)
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	57.6 PK	74.0	-16.4	1.11 H	118	54.6	3.0
2	5150.00	45.3 AV	54.0	-8.7	1.11 H	118	42.3	3.0
3	*5180.00	107.3 PK			1.11 H	118	104.2	3.1
4	*5180.00	97.9 AV			1.11 H	118	94.8	3.1
5	#10360.00	50.5 PK	74.0	-23.5	1.55 H	333	36.9	13.6
6	#10360.00	39.5 AV	54.0	-14.5	1.55 H	333	25.9	13.6
7	15540.00	50.7 PK	74.0	-23.3	1.44 H	155	35.0	15.7
8	15540.00	40.5 AV	54.0	-13.5	1.44 H	155	24.8	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.6 PK	74.0	-9.4	2.77 V	227	61.6	3.0
2	5150.00	53.5 AV	54.0	-0.5	2.77 V	227	50.5	3.0
3	*5180.00	118.4 PK			2.77 V	227	115.3	3.1
4	*5180.00	108.7 AV			2.77 V	227	105.6	3.1
5	#10360.00	49.8 PK	74.0	-24.2	1.01 V	360	36.2	13.6
6	#10360.00	39.7 AV	54.0	-14.3	1.01 V	360	26.1	13.6
7	15540.00	53.1 PK	74.0	-20.9	1.09 V	345	37.4	15.7
8	15540.00	44.0 AV	54.0	-10.0	1.09 V	345	28.3	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	107.0 PK			1.09 H	127	103.9	3.1
2	*5200.00	97.8 AV			1.09 H	127	94.7	3.1
3	#10400.00	49.8 PK	74.0	-24.2	1.53 H	326	36.2	13.6
4	#10400.00	39.0 AV	54.0	-15.0	1.53 H	326	25.4	13.6
5	15600.00	50.0 PK	74.0	-24.0	1.46 H	143	34.3	15.7
6	15600.00	40.1 AV	54.0	-13.9	1.46 H	143	24.4	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	119.6 PK			2.73 V	226	116.5	3.1
2	*5200.00	109.4 AV			2.73 V	226	106.3	3.1
3	#10400.00	50.1 PK	74.0	-23.9	1.00 V	360	36.5	13.6
4	#10400.00	39.7 AV	54.0	-14.3	1.00 V	360	26.1	13.6
5	15600.00	53.5 PK	74.0	-20.5	1.03 V	360	37.8	15.7
6	15600.00	44.4 AV	54.0	-9.6	1.03 V	360	28.7	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	107.1 PK			1.15 H	125	103.9	3.2
2	*5240.00	97.4 AV			1.15 H	125	94.2	3.2
3	5400.00	49.7 PK	74.0	-24.3	1.15 H	125	46.0	3.7
4	5400.00	39.1 AV	54.0	-14.9	1.15 H	125	35.4	3.7
5	#10480.00	50.3 PK	74.0	-23.7	1.48 H	322	36.3	14.0
6	#10480.00	39.4 AV	54.0	-14.6	1.48 H	322	25.4	14.0
7	15720.00	50.4 PK	74.0	-23.6	1.44 H	130	35.0	15.4
8	15720.00	40.1 AV	54.0	-13.9	1.44 H	130	24.7	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	119.8 PK			2.77 V	224	116.6	3.2
2	*5240.00	109.7 AV			2.77 V	224	106.5	3.2
3	5400.00	51.2 PK	74.0	-22.8	2.77 V	224	47.5	3.7
4	5400.00	42.0 AV	54.0	-12.0	2.77 V	224	38.3	3.7
5	#10480.00	49.6 PK	74.0	-24.4	1.00 V	360	35.6	14.0
6	#10480.00	39.6 AV	54.0	-14.4	1.00 V	360	25.6	14.0
7	15720.00	53.2 PK	74.0	-20.8	1.00 V	360	37.8	15.4
8	15720.00	44.0 AV	54.0	-10.0	1.00 V	360	28.6	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5588.48	56.1 PK	68.2	-12.1	2.45 H	130	52.2	3.9
2	*5745.00	111.6 PK			1.12 H	130	107.4	4.2
3	*5745.00	102.0 AV			1.12 H	130	97.8	4.2
4	#5976.35	54.7 PK	68.2	-13.5	2.45 H	130	50.2	4.5
5	11490.00	49.6 PK	74.0	-24.4	1.58 H	310	34.4	15.2
6	11490.00	38.6 AV	54.0	-15.4	1.58 H	310	23.4	15.2
7	#17235.00	50.7 PK	74.0	-23.3	1.43 H	137	30.7	20.0
8	#17235.00	40.5 AV	54.0	-13.5	1.43 H	137	20.5	20.0
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	#5591.06	63.0 PK	68.2	-5.2	2.84 V	60	59.1	3.9
2	*5745.00	122.5 PK			2.84 V	60	118.3	4.2
3	*5745.00	112.9 AV			2.84 V	60	108.7	4.2
4	#5976.31	62.2 PK	68.2	-6.0	2.84 V	60	57.7	4.5
5	11490.00	50.6 PK	74.0	-23.4	1.03 V	360	35.4	15.2
6	11490.00	40.5 AV	54.0	-13.5	1.03 V	360	25.3	15.2
7	#17235.00	58.9 PK	74.0	-15.1	1.07 V	360	38.9	20.0
8	#17235.00	49.3 AV	54.0	-4.7	1.07 V	360	29.3	20.0

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)
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	#5622.81	55.0 PK	68.2	-13.2	2.28 H	212	51.0	4.0
2	*5785.00	111.6 PK			1.08 H	117	107.5	4.1
3	*5785.00	102.1 AV			1.08 H	117	98.0	4.1
4	#5938.12	53.9 PK	68.2	-14.3	2.28 H	212	49.5	4.4
5	11570.00	50.0 PK	74.0	-24.0	1.58 H	300	34.9	15.1
6	11570.00	39.0 AV	54.0	-15.0	1.58 H	300	23.9	15.1
7	#17355.00	51.0 PK	74.0	-23.0	1.43 H	146	30.5	20.5
8	#17355.00	41.0 AV	54.0	-13.0	1.43 H	146	20.5	20.5
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	#5621.50	62.2 PK	68.2	-6.0	2.78 V	61	58.2	4.0
2	*5785.00	122.5 PK			2.78 V	61	118.4	4.1
3	*5785.00	112.8 AV			2.78 V	61	108.7	4.1
4	#5951.40	59.9 PK	68.2	-8.3	2.78 V	61	55.5	4.4
5	11570.00	50.7 PK	74.0	-23.3	1.09 V	360	35.6	15.1
6	11570.00	40.6 AV	54.0	-13.4	1.09 V	360	25.5	15.1
7	#17355.00	58.7 PK	74.0	-15.3	1.04 V	353	38.2	20.5
8	#17355.00	49.4 AV	54.0	-4.6	1.04 V	353	28.9	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5576.81	54.1 PK	68.2	-14.1	2.25 H	214	50.2	3.9
2	*5825.00	111.8 PK			1.10 H	135	107.6	4.2
3	*5825.00	101.5 AV			1.10 H	135	97.3	4.2
4	#5989.94	53.4 PK	68.2	-14.8	2.25 H	214	48.9	4.5
5	11650.00	49.2 PK	74.0	-24.8	1.52 H	317	34.2	15.0
6	11650.00	38.3 AV	54.0	-15.7	1.52 H	317	23.3	15.0
7	#17475.00	50.4 PK	74.0	-23.6	1.46 H	151	29.3	21.1
8	#17475.00	40.3 AV	54.0	-13.7	1.46 H	151	19.2	21.1
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	#5590.17	65.0 PK	68.2	-3.2	2.57 V	286	61.1	3.9
2	*5825.00	122.5 PK			2.57 V	286	118.3	4.2
3	*5825.00	112.2 AV			2.57 V	286	108.0	4.2
4	#5943.06	60.7 PK	68.2	-7.5	2.57 V	286	56.3	4.4
5	11650.00	50.5 PK	74.0	-23.5	1.00 V	360	35.5	15.0
6	11650.00	40.3 AV	54.0	-13.7	1.00 V	360	25.3	15.0
7	#17475.00	58.4 PK	74.0	-15.6	1.05 V	347	37.3	21.1
8	#17475.00	48.7 AV	54.0	-5.3	1.05 V	347	27.6	21.1

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)
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	57.4 PK	74.0	-16.6	1.14 H	133	54.4	3.0
2	5150.00	44.9 AV	54.0	-9.1	1.14 H	133	41.9	3.0
3	*5190.00	100.6 PK			1.14 H	133	97.5	3.1
4	*5190.00	91.5 AV			1.14 H	133	88.4	3.1
5	#10380.00	49.3 PK	74.0	-24.7	1.52 H	295	35.6	13.7
6	#10380.00	38.6 AV	54.0	-15.4	1.52 H	295	24.9	13.7
7	15570.00	50.3 PK	74.0	-23.7	1.49 H	126	34.7	15.6
8	15570.00	40.1 AV	54.0	-13.9	1.49 H	126	24.5	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	69.9 PK	74.0	-4.1	2.53 V	218	66.9	3.0
2	5150.00	53.8 AV	54.0	-0.2	2.53 V	218	50.8	3.0
3	*5190.00	111.9 PK			2.53 V	218	108.8	3.1
4	*5190.00	102.5 AV			2.53 V	218	99.4	3.1
5	#10380.00	50.4 PK	74.0	-23.6	1.00 V	360	36.7	13.7
6	#10380.00	39.0 AV	54.0	-15.0	1.00 V	360	25.3	13.7
7	15570.00	50.6 PK	74.0	-23.4	1.00 V	350	35.0	15.6
8	15570.00	40.3 AV	54.0	-13.7	1.00 V	350	24.7	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)
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	*5230.00	105.1 PK			1.08 H	125	101.9	3.2
2	*5230.00	96.4 AV			1.08 H	125	93.2	3.2
3	5390.00	57.9 PK	74.0	-16.1	1.08 H	125	54.2	3.7
4	5390.00	45.4 AV	54.0	-8.6	1.08 H	125	41.7	3.7
5	#10460.00	49.7 PK	74.0	-24.3	1.62 H	303	35.8	13.9
6	#10460.00	39.0 AV	54.0	-15.0	1.62 H	303	25.1	13.9
7	15690.00	51.0 PK	74.0	-23.0	1.46 H	132	35.4	15.6
8	15690.00	40.6 AV	54.0	-13.4	1.46 H	132	25.0	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	*5230.00	116.9 PK			2.50 V	219	113.7	3.2
2	*5230.00	107.5 AV			2.50 V	219	104.3	3.2
3	5390.00	63.7 PK	74.0	-10.3	2.50 V	219	60.0	3.7
4	5390.00	53.8 AV	54.0	-0.2	2.50 V	219	50.1	3.7
5	#10460.00	50.5 PK	74.0	-23.5	1.00 V	360	36.6	13.9
6	#10460.00	39.3 AV	54.0	-14.7	1.00 V	360	25.4	13.9
7	15690.00	50.4 PK	74.0	-23.6	1.01 V	341	34.8	15.6
8	15690.00	40.2 AV	54.0	-13.8	1.01 V	341	24.6	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)
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	#5588.00	56.1 PK	68.2	-12.1	1.00 H	40	52.2	3.9
2	*5755.00	107.6 PK			1.00 H	40	103.4	4.2
3	*5755.00	97.4 AV			1.00 H	40	93.2	4.2
4	#6007.90	54.1 PK	68.2	-14.1	1.00 H	40	49.6	4.5
5	11510.00	49.3 PK	74.0	-24.7	1.61 H	310	34.2	15.1
6	11510.00	38.2 AV	54.0	-15.8	1.61 H	310	23.1	15.1
7	#17265.00	50.2 PK	74.0	-23.8	1.49 H	150	30.3	19.9
8	#17265.00	40.0 AV	54.0	-14.0	1.49 H	150	20.1	19.9
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	#5609.85	67.5 PK	68.2	-0.7	2.58 V	245	63.6	3.9
2	#5649.27	67.0 PK	68.2	-1.2	2.58 V	245	63.0	4.0
3	*5755.00	118.5 PK			2.58 V	245	114.3	4.2
4	*5755.00	109.2 AV			2.58 V	245	105.0	4.2
5	#5925.25	64.1 PK	68.2	-4.1	2.58 V	245	59.7	4.4
6	11510.00	49.5 PK	74.0	-24.5	1.07 V	357	34.4	15.1
7	11510.00	38.5 AV	54.0	-15.5	1.07 V	357	23.4	15.1
8	#17265.00	53.4 PK	74.0	-20.6	1.06 V	346	33.5	19.9
9	#17265.00	43.2 AV	54.0	-10.8	1.06 V	346	23.3	19.9

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)
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	#5626.95	56.5 PK	68.2	-11.7	1.00 H	39	52.5	4.0
2	*5795.00	108.2 PK			1.00 H	39	104.1	4.1
3	*5795.00	98.3 AV			1.00 H	39	94.2	4.1
4	#5945.68	56.7 PK	68.2	-11.5	1.00 H	39	52.3	4.4
5	11590.00	48.9 PK	74.0	-25.1	1.61 H	309	33.8	15.1
6	11590.00	38.2 AV	54.0	-15.8	1.61 H	309	23.1	15.1
7	#17385.00	51.2 PK	74.0	-22.8	1.38 H	140	30.6	20.6
8	#17385.00	40.9 AV	54.0	-13.1	1.38 H	140	20.3	20.6
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	#5625.05	66.8 PK	68.2	-1.4	2.55 V	245	62.8	4.0
2	*5795.00	118.7 PK			2.55 V	245	114.6	4.1
3	*5795.00	109.7 AV			2.55 V	245	105.6	4.1
4	#5922.87	68.1 PK	69.8	-1.7	2.55 V	245	63.7	4.4
5	#5928.10	68.0 PK	68.2	-0.2	2.55 V	245	63.6	4.4
6	#5942.35	67.1 PK	68.2	-1.1	2.55 V	245	62.7	4.4
7	11590.00	49.6 PK	74.0	-24.4	1.10 V	360	34.5	15.1
8	11590.00	38.9 AV	54.0	-15.1	1.10 V	360	23.8	15.1
9	#17385.00	53.9 PK	74.0	-20.1	1.11 V	335	33.3	20.6
10	#17385.00	43.6 AV	54.0	-10.4	1.11 V	335	23.0	20.6

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)
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	5145.00	57.4 PK	74.0	-16.6	1.05 H	136	54.4	3.0
2	5145.00	44.9 AV	54.0	-9.1	1.05 H	136	41.9	3.0
3	*5210.00	95.2 PK			1.05 H	136	92.0	3.2
4	*5210.00	85.5 AV			1.05 H	136	82.3	3.2
5	5350.00	57.5 PK	74.0	-16.5	1.05 H	136	54.0	3.5
6	5350.00	41.1 AV	54.0	-12.9	1.05 H	136	37.6	3.5
7	#10420.00	49.6 PK	74.0	-24.4	1.52 H	317	35.8	13.8
8	#10420.00	38.5 AV	54.0	-15.5	1.52 H	317	24.7	13.8
9	15630.00	50.4 PK	74.0	-23.6	1.43 H	130	34.7	15.7
10	15630.00	40.4 AV	54.0	-13.6	1.43 H	130	24.7	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.00	73.3 PK	74.0	-0.7	2.64 V	37	70.3	3.0
2	5145.00	51.2 AV	54.0	-2.8	2.64 V	37	48.2	3.0
3	*5210.00	106.4 PK			2.64 V	37	103.2	3.2
4	*5210.00	96.6 AV			2.64 V	37	93.4	3.2
5	5350.00	59.9 PK	74.0	-14.1	2.64 V	37	56.4	3.5
6	5350.00	47.2 AV	54.0	-6.8	2.64 V	37	43.7	3.5
7	#10420.00	50.3 PK	74.0	-23.7	1.00 V	360	36.5	13.8
8	#10420.00	39.2 AV	54.0	-14.8	1.00 V	360	25.4	13.8
9	15630.00	50.7 PK	74.0	-23.3	1.00 V	354	35.0	15.7
10	15630.00	40.2 AV	54.0	-13.8	1.00 V	354	24.5	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5626.95	57.4 PK	68.2	-10.8	1.00 H	136	53.4	4.0
2	*5775.00	100.3 PK			1.00 H	136	96.1	4.2
3	*5775.00	90.5 AV			1.00 H	136	86.3	4.2
4	#5931.90	56.4 PK	68.2	-11.8	1.00 H	136	52.0	4.4
5	11550.00	50.0 PK	74.0	-24.0	1.54 H	309	34.8	15.2
6	11550.00	39.2 AV	54.0	-14.8	1.54 H	309	24.0	15.2
7	#17325.00	51.2 PK	74.0	-22.8	1.40 H	141	30.9	20.3
8	#17325.00	40.9 AV	54.0	-13.1	1.40 H	141	20.6	20.3
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	#5627.43	67.3 PK	68.2	-0.9	2.67 V	62	63.3	4.0
2	#5647.37	67.7 PK	68.2	-0.5	2.67 V	62	63.7	4.0
3	*5775.00	111.1 PK			2.67 V	62	106.9	4.2
4	*5775.00	101.8 AV			2.67 V	62	97.6	4.2
5	#5924.30	64.3 PK	68.7	-4.4	2.67 V	62	59.9	4.4
6	#5933.32	63.8 PK	68.2	-4.4	2.67 V	62	59.4	4.4
7	11550.00	50.4 PK	74.0	-23.6	1.00 V	357	35.2	15.2
8	11550.00	38.8 AV	54.0	-15.2	1.00 V	357	23.6	15.2
9	#17325.00	50.5 PK	74.0	-23.5	1.01 V	349	30.2	20.3
10	#17325.00	40.5 AV	54.0	-13.5	1.01 V	349	20.2	20.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Radio 2 - 4TX with Dipole antenna CDD Mode

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	5146.00	70.7 PK	74.0	-3.3	2.66 H	275	67.7	3.0
2	5146.00	53.5 AV	54.0	-0.5	2.66 H	275	50.5	3.0
3	*5180.00	119.4 PK			2.42 H	170	116.3	3.1
4	*5180.00	109.8 AV			2.42 H	170	106.7	3.1
5	#10360.00	50.3 PK	74.0	-23.7	1.49 H	90	36.7	13.6
6	#10360.00	40.2 AV	54.0	-13.8	1.49 H	90	26.6	13.6
7	15540.00	53.5 PK	74.0	-20.5	2.06 H	313	37.8	15.7
8	15540.00	44.3 AV	54.0	-9.7	2.06 H	313	28.6	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5146.00	58.0 PK	74.0	-16.0	2.69 V	289	55.0	3.0
2	5146.00	45.4 AV	54.0	-8.6	2.69 V	289	42.4	3.0
3	*5180.00	108.2 PK			2.69 V	289	105.1	3.1
4	*5180.00	99.1 AV			2.69 V	289	96.0	3.1
5	#10360.00	50.9 PK	74.0	-23.1	1.22 V	81	37.3	13.6
6	#10360.00	39.8 AV	54.0	-14.2	1.22 V	81	26.2	13.6
7	15540.00	50.1 PK	74.0	-23.9	2.99 V	144	34.4	15.7
8	15540.00	40.0 AV	54.0	-14.0	2.99 V	144	24.3	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	119.5 PK			2.51 H	176	116.4	3.1
2	*5200.00	110.1 AV			2.51 H	176	107.0	3.1
3	#10400.00	49.8 PK	74.0	-24.2	1.43 H	75	36.2	13.6
4	#10400.00	39.5 AV	54.0	-14.5	1.43 H	75	25.9	13.6
5	15600.00	52.7 PK	74.0	-21.3	2.09 H	297	37.0	15.7
6	15600.00	43.8 AV	54.0	-10.2	2.09 H	297	28.1	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.2 PK			2.66 V	290	105.1	3.1
2	*5200.00	99.2 AV			2.66 V	290	96.1	3.1
3	#10400.00	50.7 PK	74.0	-23.3	1.30 V	94	37.1	13.6
4	#10400.00	39.7 AV	54.0	-14.3	1.30 V	94	26.1	13.6
5	15600.00	51.0 PK	74.0	-23.0	2.94 V	149	35.3	15.7
6	15600.00	40.6 AV	54.0	-13.4	2.94 V	149	24.9	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	119.0 PK			2.34 H	198	115.8	3.2
2	*5240.00	109.6 AV			2.34 H	198	106.4	3.2
3	5400.00	51.7 PK	74.0	-22.3	2.54 H	181	48.0	3.7
4	5400.00	42.4 AV	54.0	-11.6	2.54 H	181	38.7	3.7
5	#10480.00	50.0 PK	74.0	-24.0	1.42 H	95	36.0	14.0
6	#10480.00	39.7 AV	54.0	-14.3	1.42 H	95	25.7	14.0
7	15720.00	53.3 PK	74.0	-20.7	2.06 H	298	37.9	15.4
8	15720.00	44.4 AV	54.0	-9.6	2.06 H	298	29.0	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	108.5 PK			2.63 V	298	105.3	3.2
2	*5240.00	99.4 AV			2.63 V	298	96.2	3.2
3	5400.00	49.0 PK	74.0	-25.0	2.63 V	298	45.3	3.7
4	5400.00	38.6 AV	54.0	-15.4	2.63 V	298	34.9	3.7
5	#10480.00	50.3 PK	74.0	-23.7	1.26 V	90	36.3	14.0
6	#10480.00	39.1 AV	54.0	-14.9	1.26 V	90	25.1	14.0
7	15720.00	50.5 PK	74.0	-23.5	3.03 V	152	35.1	15.4
8	15720.00	40.0 AV	54.0	-14.0	3.03 V	152	24.6	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5588.00	61.9 PK	68.2	-6.3	2.79 H	179	58.0	3.9
2	*5745.00	122.6 PK			2.79 H	179	118.4	4.2
3	*5745.00	113.5 AV			2.79 H	179	109.3	4.2
4	#5924.77	58.3 PK	68.4	-10.1	2.79 H	179	53.9	4.4
5	11490.00	50.7 PK	74.0	-23.3	1.45 H	100	35.5	15.2
6	11490.00	40.4 AV	54.0	-13.6	1.45 H	100	25.2	15.2
7	#17235.00	59.0 PK	74.0	-15.0	2.14 H	301	39.0	20.0
8	#17235.00	49.5 AV	54.0	-4.5	2.14 H	301	29.5	20.0
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	#5590.37	53.2 PK	68.2	-15.0	3.31 V	302	49.3	3.9
2	*5745.00	110.9 PK			3.31 V	302	106.7	4.2
3	*5745.00	101.9 AV			3.31 V	302	97.7	4.2
4	#5993.18	53.8 PK	68.2	-14.4	3.31 V	302	49.3	4.5
5	11490.00	49.8 PK	74.0	-24.2	1.20 V	89	34.6	15.2
6	11490.00	38.6 AV	54.0	-15.4	1.20 V	89	23.4	15.2
7	#17235.00	50.1 PK	74.0	-23.9	3.01 V	141	30.1	20.0
8	#17235.00	40.1 AV	54.0	-13.9	3.01 V	141	20.1	20.0

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)
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	#5621.73	61.1 PK	68.2	-7.1	2.33 H	202	57.1	4.0
2	*5785.00	122.2 PK			2.33 H	202	118.1	4.1
3	*5785.00	113.4 AV			2.33 H	202	109.3	4.1
4	#5946.15	59.3 PK	68.2	-8.9	2.33 H	202	54.9	4.4
5	11570.00	51.2 PK	74.0	-22.8	1.46 H	89	36.1	15.1
6	11570.00	40.7 AV	54.0	-13.3	1.46 H	89	25.6	15.1
7	#17355.00	59.3 PK	74.0	-14.7	2.11 H	306	38.8	20.5
8	#17355.00	49.8 AV	54.0	-4.2	2.11 H	306	29.3	20.5
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	#5628.37	54.6 PK	68.2	-13.6	2.64 V	302	50.6	4.0
2	*5785.00	111.4 PK			2.64 V	302	107.3	4.1
3	*5785.00	102.2 AV			2.64 V	302	98.1	4.1
4	#6024.05	54.3 PK	68.2	-13.9	2.64 V	302	49.7	4.6
5	11570.00	49.8 PK	74.0	-24.2	1.19 V	101	34.7	15.1
6	11570.00	38.5 AV	54.0	-15.5	1.19 V	101	23.4	15.1
7	#17355.00	49.8 PK	74.0	-24.2	2.96 V	130	29.3	20.5
8	#17355.00	40.0 AV	54.0	-14.0	2.96 V	130	19.5	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5588.48	60.3 PK	68.2	-7.9	2.32 H	222	56.4	3.9
2	*5825.00	123.3 PK			2.32 H	222	119.1	4.2
3	*5825.00	114.3 AV			2.32 H	222	110.1	4.2
4	#5980.82	59.5 PK	68.2	-8.7	2.32 H	222	55.0	4.5
5	11650.00	50.9 PK	74.0	-23.1	1.42 H	89	35.9	15.0
6	11650.00	40.7 AV	54.0	-13.3	1.42 H	89	25.7	15.0
7	#17475.00	59.6 PK	74.0	-14.4	2.14 H	301	38.5	21.1
8	#17475.00	50.0 AV	54.0	-4.0	2.14 H	301	28.9	21.1
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	#5597.02	52.4 PK	68.2	-15.8	2.54 V	333	48.5	3.9
2	*5825.00	111.1 PK			2.54 V	333	106.9	4.2
3	*5825.00	101.9 AV			2.54 V	333	97.7	4.2
4	#5946.15	53.2 PK	68.2	-15.0	2.54 V	333	48.8	4.4
5	11650.00	49.9 PK	74.0	-24.1	1.25 V	88	34.9	15.0
6	11650.00	38.7 AV	54.0	-15.3	1.25 V	88	23.7	15.0
7	#17475.00	50.1 PK	74.0	-23.9	2.99 V	154	29.0	21.1
8	#17475.00	39.8 AV	54.0	-14.2	2.99 V	154	18.7	21.1

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)
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	64.2 PK	74.0	-9.8	2.78 H	167	61.2	3.0
2	5150.00	53.1 AV	54.0	-0.9	2.78 H	167	50.1	3.0
3	*5180.00	118.3 PK			2.78 H	167	115.2	3.1
4	*5180.00	108.2 AV			2.78 H	167	105.1	3.1
5	#10360.00	50.6 PK	74.0	-23.4	1.41 H	78	37.0	13.6
6	#10360.00	40.2 AV	54.0	-13.8	1.41 H	78	26.6	13.6
7	15540.00	53.3 PK	74.0	-20.7	2.08 H	294	37.6	15.7
8	15540.00	44.3 AV	54.0	-9.7	2.08 H	294	28.6	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.3 PK	74.0	-16.7	2.63 V	303	54.3	3.0
2	5150.00	45.0 AV	54.0	-9.0	2.63 V	303	42.0	3.0
3	*5180.00	107.9 PK			2.63 V	303	104.8	3.1
4	*5180.00	97.8 AV			2.63 V	303	94.7	3.1
5	#10360.00	50.3 PK	74.0	-23.7	1.28 V	79	36.7	13.6
6	#10360.00	39.6 AV	54.0	-14.4	1.28 V	79	26.0	13.6
7	15540.00	50.5 PK	74.0	-23.5	3.00 V	148	34.8	15.7
8	15540.00	40.3 AV	54.0	-13.7	3.00 V	148	24.6	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	119.1 PK			2.79 H	180	116.0	3.1
2	*5200.00	109.0 AV			2.79 H	180	105.9	3.1
3	#10400.00	49.7 PK	74.0	-24.3	1.47 H	90	36.1	13.6
4	#10400.00	39.5 AV	54.0	-14.5	1.47 H	90	25.9	13.6
5	15600.00	53.9 PK	74.0	-20.1	2.13 H	311	38.2	15.7
6	15600.00	44.7 AV	54.0	-9.3	2.13 H	311	29.0	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.2 PK			2.63 V	308	105.1	3.1
2	*5200.00	97.9 AV			2.63 V	308	94.8	3.1
3	#10400.00	50.4 PK	74.0	-23.6	1.20 V	82	36.8	13.6
4	#10400.00	39.3 AV	54.0	-14.7	1.20 V	82	25.7	13.6
5	15600.00	50.5 PK	74.0	-23.5	3.04 V	169	34.8	15.7
6	15600.00	40.0 AV	54.0	-14.0	3.04 V	169	24.3	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	119.0 PK			2.81 H	184	115.8	3.2
2	*5240.00	108.9 AV			2.81 H	184	105.7	3.2
3	5350.00	51.2 PK	74.0	-22.8	2.81 H	184	47.7	3.5
4	5350.00	41.7 AV	54.0	-12.3	2.81 H	184	38.2	3.5
5	#10480.00	50.4 PK	74.0	-23.6	1.47 H	97	36.4	14.0
6	#10480.00	40.1 AV	54.0	-13.9	1.47 H	97	26.1	14.0
7	15720.00	52.7 PK	74.0	-21.3	2.05 H	304	37.3	15.4
8	15720.00	43.8 AV	54.0	-10.2	2.05 H	304	28.4	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	107.6 PK			2.62 V	299	104.4	3.2
2	*5240.00	97.5 AV			2.62 V	299	94.3	3.2
3	5350.00	49.1 PK	74.0	-24.9	2.62 V	299	45.6	3.5
4	5350.00	38.6 AV	54.0	-15.4	2.62 V	299	35.1	3.5
5	#10480.00	50.8 PK	74.0	-23.2	1.28 V	80	36.8	14.0
6	#10480.00	39.9 AV	54.0	-14.1	1.28 V	80	25.9	14.0
7	15720.00	50.6 PK	74.0	-23.4	2.94 V	157	35.2	15.4
8	15720.00	40.3 AV	54.0	-13.7	2.94 V	157	24.9	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5588.00	60.9 PK	68.2	-7.3	2.30 H	276	57.0	3.9
2	*5745.00	122.4 PK			2.30 H	276	118.2	4.2
3	*5745.00	112.7 AV			2.30 H	276	108.5	4.2
4	#5990.32	59.9 PK	68.2	-8.3	2.30 H	276	55.4	4.5
5	11490.00	50.2 PK	74.0	-23.8	1.44 H	93	35.0	15.2
6	11490.00	40.1 AV	54.0	-13.9	1.44 H	93	24.9	15.2
7	#17235.00	58.9 PK	74.0	-15.1	2.15 H	298	38.9	20.0
8	#17235.00	49.2 AV	54.0	-4.8	2.15 H	298	29.2	20.0
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	#5645.00	53.5 PK	68.2	-14.7	3.04 V	299	49.5	4.0
2	*5745.00	111.5 PK			3.04 V	299	107.3	4.2
3	*5745.00	102.1 AV			3.04 V	299	97.9	4.2
4	#6016.93	54.4 PK	68.2	-13.8	3.04 V	299	49.9	4.5
5	11490.00	49.9 PK	74.0	-24.1	1.18 V	94	34.7	15.2
6	11490.00	38.8 AV	54.0	-15.2	1.18 V	94	23.6	15.2
7	#17235.00	50.7 PK	74.0	-23.3	3.03 V	151	30.7	20.0
8	#17235.00	40.5 AV	54.0	-13.5	3.03 V	151	20.5	20.0

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)
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	#5623.15	64.4 PK	68.2	-3.8	2.30 H	275	60.4	4.0
2	*5785.00	122.7 PK			2.30 H	275	118.6	4.1
3	*5785.00	112.9 AV			2.30 H	275	108.8	4.1
4	#5942.35	60.1 PK	68.2	-8.1	2.30 H	275	55.7	4.4
5	11570.00	50.7 PK	74.0	-23.3	1.42 H	96	35.6	15.1
6	11570.00	40.2 AV	54.0	-13.8	1.42 H	96	25.1	15.1
7	#17355.00	59.5 PK	74.0	-14.5	2.18 H	309	39.0	20.5
8	#17355.00	49.7 AV	54.0	-4.3	2.18 H	309	29.2	20.5
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	#5583.73	52.7 PK	68.2	-15.5	2.99 V	299	48.8	3.9
2	*5785.00	111.8 PK			2.99 V	299	107.7	4.1
3	*5785.00	101.9 AV			2.99 V	299	97.8	4.1
4	#5944.25	53.2 PK	68.2	-15.0	2.99 V	299	48.8	4.4
5	11570.00	49.7 PK	74.0	-24.3	1.14 V	78	34.6	15.1
6	11570.00	38.7 AV	54.0	-15.3	1.14 V	78	23.6	15.1
7	#17355.00	50.7 PK	74.0	-23.3	2.99 V	154	30.2	20.5
8	#17355.00	40.6 AV	54.0	-13.4	2.99 V	154	20.1	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5589.90	63.1 PK	68.2	-5.1	2.33 H	275	59.2	3.9
2	*5825.00	122.2 PK			2.33 H	275	118.0	4.2
3	*5825.00	112.8 AV			2.33 H	275	108.6	4.2
4	#5990.32	58.8 PK	68.2	-9.4	2.33 H	275	54.3	4.5
5	11650.00	50.5 PK	74.0	-23.5	1.51 H	99	35.5	15.0
6	11650.00	40.2 AV	54.0	-13.8	1.51 H	99	25.2	15.0
7	#17475.00	58.6 PK	74.0	-15.4	2.18 H	313	37.5	21.1
8	#17475.00	49.1 AV	54.0	-4.9	2.18 H	313	28.0	21.1
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	#5584.20	53.8 PK	68.2	-14.4	2.84 V	298	49.9	3.9
2	*5825.00	111.9 PK			2.84 V	298	107.7	4.2
3	*5825.00	102.1 AV			2.84 V	298	97.9	4.2
4	#5949.95	54.4 PK	68.2	-13.8	2.84 V	298	50.0	4.4
5	11650.00	49.6 PK	74.0	-24.4	1.22 V	105	34.6	15.0
6	11650.00	38.2 AV	54.0	-15.8	1.22 V	105	23.2	15.0
7	#17475.00	50.6 PK	74.0	-23.4	2.99 V	128	29.5	21.1
8	#17475.00	40.5 AV	54.0	-13.5	2.99 V	128	19.4	21.1

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)
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	69.6 PK	74.0	-4.4	2.83 H	190	66.6	3.0
2	5150.00	53.6 AV	54.0	-0.4	2.83 H	190	50.6	3.0
3	*5190.00	111.4 PK			2.83 H	190	108.3	3.1
4	*5190.00	102.0 AV			2.83 H	190	98.9	3.1
5	#10380.00	51.2 PK	74.0	-22.8	1.45 H	83	37.5	13.7
6	#10380.00	39.7 AV	54.0	-14.3	1.45 H	83	26.0	13.7
7	15570.00	51.5 PK	74.0	-22.5	2.10 H	292	35.9	15.6
8	15570.00	41.2 AV	54.0	-12.8	2.10 H	292	25.6	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	5150.00	57.2 PK	74.0	-16.8	2.69 V	305	54.2	3.0
2	5150.00	44.9 AV	54.0	-9.1	2.69 V	305	41.9	3.0
3	*5190.00	101.8 PK			2.69 V	305	98.7	3.1
4	*5190.00	91.7 AV			2.69 V	305	88.6	3.1
5	#10380.00	50.3 PK	74.0	-23.7	1.26 V	87	36.6	13.7
6	#10380.00	39.2 AV	54.0	-14.8	1.26 V	87	25.5	13.7
7	15570.00	50.9 PK	74.0	-23.1	3.01 V	157	35.3	15.6
8	15570.00	40.4 AV	54.0	-13.6	3.01 V	157	24.8	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)
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	*5230.00	116.1 PK			2.74 H	190	112.9	3.2
2	*5230.00	106.8 AV			2.74 H	190	103.6	3.2
3	5390.00	63.4 PK	74.0	-10.6	2.74 H	190	59.7	3.7
4	5390.00	53.3 AV	54.0	-0.7	2.74 H	190	49.6	3.7
5	#10460.00	50.3 PK	74.0	-23.7	1.51 H	101	36.4	13.9
6	#10460.00	39.3 AV	54.0	-14.7	1.51 H	101	25.4	13.9
7	15690.00	50.5 PK	74.0	-23.5	2.16 H	310	34.9	15.6
8	15690.00	40.4 AV	54.0	-13.6	2.16 H	310	24.8	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	104.8 PK			2.65 V	289	101.6	3.2
2	*5230.00	95.7 AV			2.65 V	289	92.5	3.2
3	5390.00	58.3 PK	74.0	-15.7	2.65 V	289	54.6	3.7
4	5390.00	45.7 AV	54.0	-8.3	2.65 V	289	42.0	3.7
5	#10460.00	50.6 PK	74.0	-23.4	1.19 V	73	36.7	13.9
6	#10460.00	39.9 AV	54.0	-14.1	1.19 V	73	26.0	13.9
7	15690.00	51.0 PK	74.0	-23.0	2.97 V	166	35.4	15.6
8	15690.00	40.5 AV	54.0	-13.5	2.97 V	166	24.9	15.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5603.56	67.5 PK	68.2	-0.7	2.39 H	267	63.6	3.9
2	*5755.00	118.8 PK			2.39 H	267	114.6	4.2
3	*5755.00	109.3 AV			2.39 H	267	105.1	4.2
4	#5924.29	62.8 PK	68.7	-5.9	2.39 H	267	58.4	4.4
5	11510.00	50.3 PK	74.0	-23.7	1.48 H	74	35.2	15.1
6	11510.00	39.2 AV	54.0	-14.8	1.48 H	74	24.1	15.1
7	#17265.00	51.4 PK	74.0	-22.6	2.11 H	315	31.5	19.9
8	#17265.00	41.2 AV	54.0	-12.8	2.11 H	315	21.3	19.9
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	#5602.99	56.4 PK	68.2	-11.8	2.51 V	306	52.5	3.9
2	*5755.00	108.1 PK			2.51 V	306	103.9	4.2
3	*5755.00	97.8 AV			2.51 V	306	93.6	4.2
4	#5945.73	53.4 PK	68.2	-14.8	2.51 V	306	49.0	4.4
5	11510.00	50.6 PK	74.0	-23.4	1.26 V	73	35.5	15.1
6	11510.00	39.6 AV	54.0	-14.4	1.26 V	73	24.5	15.1
7	#17265.00	50.9 PK	74.0	-23.1	2.94 V	147	31.0	19.9
8	#17265.00	40.6 AV	54.0	-13.4	2.94 V	147	20.7	19.9

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)
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	#5643.08	67.4 PK	68.2	-0.8	2.30 H	270	63.4	4.0
2	*5795.00	118.7 PK			2.30 H	270	114.6	4.1
3	*5795.00	109.3 AV			2.30 H	270	105.2	4.1
4	#5964.22	63.6 PK	68.2	-4.6	2.30 H	270	59.1	4.5
5	11590.00	50.2 PK	74.0	-23.8	1.52 H	89	35.1	15.1
6	11590.00	38.9 AV	54.0	-15.1	1.52 H	89	23.8	15.1
7	#17385.00	51.0 PK	74.0	-23.0	2.07 H	299	30.4	20.6
8	#17385.00	40.7 AV	54.0	-13.3	2.07 H	299	20.1	20.6
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	#5594.41	54.2 PK	68.2	-14.0	2.51 V	264	50.3	3.9
2	*5795.00	107.6 PK			2.51 V	264	103.5	4.1
3	*5795.00	97.6 AV			2.51 V	264	93.5	4.1
4	#6024.38	53.7 PK	68.2	-14.5	2.51 V	264	49.1	4.6
5	11590.00	51.0 PK	74.0	-23.0	1.19 V	83	35.9	15.1
6	11590.00	39.7 AV	54.0	-14.3	1.19 V	83	24.6	15.1
7	#17385.00	51.5 PK	74.0	-22.5	2.97 V	157	30.9	20.6
8	#17385.00	41.2 AV	54.0	-12.8	2.97 V	157	20.6	20.6

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)
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	5145.00	72.9 PK	74.0	-1.1	2.76 H	172	69.9	3.0
2	5145.00	51.2 AV	54.0	-2.8	2.76 H	172	48.2	3.0
3	*5210.00	106.6 PK			2.76 H	172	103.4	3.2
4	*5210.00	96.8 AV			2.76 H	172	93.6	3.2
5	5350.00	59.9 PK	74.0	-14.1	2.76 H	172	56.4	3.5
6	5350.00	47.5 AV	54.0	-6.5	2.76 H	172	44.0	3.5
7	#10420.00	50.1 PK	74.0	-23.9	1.47 H	94	36.3	13.8
8	#10420.00	38.9 AV	54.0	-15.1	1.47 H	94	25.1	13.8
9	15630.00	50.5 PK	74.0	-23.5	2.08 H	304	34.8	15.7
10	15630.00	40.4 AV	54.0	-13.6	2.08 H	304	24.7	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.00	57.9 PK	74.0	-16.1	2.64 V	310	54.9	3.0
2	5145.00	45.2 AV	54.0	-8.8	2.64 V	310	42.2	3.0
3	*5210.00	95.8 PK			2.64 V	310	92.6	3.2
4	*5210.00	85.7 AV			2.64 V	310	82.5	3.2
5	5350.00	49.4 PK	74.0	-24.6	2.64 V	310	45.9	3.5
6	5350.00	39.0 AV	54.0	-15.0	2.64 V	310	35.5	3.5
7	#10420.00	50.7 PK	74.0	-23.3	1.23 V	81	36.9	13.8
8	#10420.00	39.3 AV	54.0	-14.7	1.23 V	81	25.5	13.8
9	15630.00	51.2 PK	74.0	-22.8	3.04 V	154	35.5	15.7
10	15630.00	41.1 AV	54.0	-12.9	3.04 V	154	25.4	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5640.05	68.0 PK	68.2	-0.2	2.35 H	268	64.0	4.0
2	*5775.00	112.5 PK			2.35 H	268	108.3	4.2
3	*5775.00	103.2 AV			2.35 H	268	99.0	4.2
4	#5943.51	61.1 PK	68.2	-7.1	2.35 H	268	56.7	4.4
5	11550.00	49.9 PK	74.0	-24.1	1.40 H	83	34.7	15.2
6	11550.00	39.0 AV	54.0	-15.0	1.40 H	83	23.8	15.2
7	#17325.00	51.2 PK	74.0	-22.8	2.13 H	293	30.9	20.3
8	#17325.00	41.2 AV	54.0	-12.8	2.13 H	293	20.9	20.3
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	#5594.78	54.5 PK	68.2	-13.7	2.43 V	265	50.6	3.9
2	*5775.00	100.9 PK			2.43 V	265	96.7	4.2
3	*5775.00	90.9 AV			2.43 V	265	86.7	4.2
4	#6011.43	53.7 PK	68.2	-14.5	2.43 V	265	49.2	4.5
5	11550.00	50.6 PK	74.0	-23.4	1.30 V	95	35.4	15.2
6	11550.00	39.2 AV	54.0	-14.8	1.30 V	95	24.0	15.2
7	#17325.00	51.1 PK	74.0	-22.9	3.00 V	146	30.8	20.3
8	#17325.00	41.0 AV	54.0	-13.0	3.00 V	146	20.7	20.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Radio 2 - 2TX with PIFA antenna CDD Mode

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	61.0 PK	74.0	-13.0	1.00 H	22	58.0	3.0
2	5150.00	41.1 AV	54.0	-12.9	1.00 H	22	38.1	3.0
3	*5180.00	103.0 PK			1.00 H	22	99.9	3.1
4	*5180.00	93.6 AV			1.00 H	22	90.5	3.1
5	#10360.00	50.9 PK	74.0	-23.1	1.49 H	316	37.3	13.6
6	#10360.00	39.6 AV	54.0	-14.4	1.49 H	316	26.0	13.6
7	15540.00	50.5 PK	74.0	-23.5	1.45 H	136	34.8	15.7
8	15540.00	40.2 AV	54.0	-13.8	1.45 H	136	24.5	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	**5150.00**	**73.9 PK**	**74.0**	**-0.1**	**2.72 V**	**347**	**70.9**	**3.0**
2	**5150.00**	**53.9 AV**	**54.0**	**-0.1**	**2.72 V**	**347**	**50.9**	**3.0**
3	*5180.00	115.9 PK			2.65 V	348	112.8	3.1
4	*5180.00	107.0 AV			2.65 V	348	103.9	3.1
5	#10360.00	49.8 PK	74.0	-24.2	1.05 V	360	36.2	13.6
6	#10360.00	39.6 AV	54.0	-14.4	1.05 V	360	26.0	13.6
7	15540.00	53.8 PK	74.0	-20.2	1.09 V	360	38.1	15.7
8	15540.00	44.5 AV	54.0	-9.5	1.09 V	360	28.8	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5150.00	59.7 PK	74.0	-14.3	1.09 H	6	56.7	3.0
2	5150.00	40.4 AV	54.0	-13.6	1.09 H	6	37.4	3.0
3	*5200.00	103.6 PK			1.09 H	6	100.5	3.1
4	*5200.00	94.7 AV			1.09 H	6	91.6	3.1
5	5360.00	59.8 PK	74.0	-14.2	1.09 H	6	56.3	3.5
6	5360.00	40.3 AV	54.0	-13.7	1.09 H	6	36.8	3.5
7	#10400.00	51.6 PK	74.0	-22.4	1.55 H	315	38.0	13.6
8	#10400.00	40.0 AV	54.0	-14.0	1.55 H	315	26.4	13.6
9	15600.00	50.8 PK	74.0	-23.2	1.47 H	140	35.1	15.7
10	15600.00	40.3 AV	54.0	-13.7	1.47 H	140	24.6	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.9 PK	74.0	-13.1	2.42 V	348	57.9	3.0
2	5150.00	46.9 AV	54.0	-7.1	2.42 V	348	43.9	3.0
3	*5200.00	116.9 PK			2.76 V	350	113.8	3.1
4	*5200.00	108.2 AV			2.76 V	350	105.1	3.1
5	5360.00	58.2 PK	74.0	-15.8	2.42 V	351	54.7	3.5
6	5360.00	47.4 AV	54.0	-6.6	2.42 V	351	43.9	3.5
7	#10400.00	49.4 PK	74.0	-24.6	1.09 V	360	35.8	13.6
8	#10400.00	39.3 AV	54.0	-14.7	1.09 V	360	25.7	13.6
9	15600.00	54.1 PK	74.0	-19.9	1.08 V	360	38.4	15.7
10	15600.00	44.9 AV	54.0	-9.1	1.08 V	360	29.2	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5080.00	59.6 PK	74.0	-14.4	1.10 H	9	56.8	2.8
2	5080.00	39.9 AV	54.0	-14.1	1.10 H	9	37.1	2.8
3	*5240.00	105.0 PK			1.10 H	9	101.8	3.2
4	*5240.00	95.9 AV			1.10 H	9	92.7	3.2
5	5405.00	60.0 PK	74.0	-14.0	1.10 H	9	56.3	3.7
6	5405.00	40.2 AV	54.0	-13.8	1.10 H	9	36.5	3.7
7	#10480.00	51.4 PK	74.0	-22.6	1.53 H	316	37.4	14.0
8	#10480.00	40.0 AV	54.0	-14.0	1.53 H	316	26.0	14.0
9	15720.00	50.5 PK	74.0	-23.5	1.45 H	139	35.1	15.4
10	15720.00	40.0 AV	54.0	-14.0	1.45 H	139	24.6	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5080.00	56.2 PK	74.0	-17.8	2.77 V	349	53.4	2.8
2	5080.00	45.6 AV	54.0	-8.4	2.77 V	349	42.8	2.8
3	*5240.00	117.9 PK			2.78 V	351	114.7	3.2
4	*5240.00	109.1 AV			2.78 V	351	105.9	3.2
5	5405.00	57.1 PK	74.0	-16.9	2.47 V	261	53.4	3.7
6	5405.00	46.9 AV	54.0	-7.1	2.47 V	261	43.2	3.7
7	#10480.00	49.9 PK	74.0	-24.1	1.06 V	360	35.9	14.0
8	#10480.00	39.4 AV	54.0	-14.6	1.06 V	360	25.4	14.0
9	15720.00	53.7 PK	74.0	-20.3	1.03 V	360	38.3	15.4
10	15720.00	44.5 AV	54.0	-9.5	1.03 V	360	29.1	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5585.62	53.2 PK	68.2	-15.0	2.45 H	139	49.3	3.9
2	*5745.00	105.7 PK			2.45 H	139	101.5	4.2
3	*5745.00	97.5 AV			2.45 H	139	93.3	4.2
4	#6017.87	53.6 PK	68.2	-14.6	2.45 H	139	49.1	4.5
5	11490.00	51.5 PK	74.0	-22.5	1.45 H	310	36.3	15.2
6	11490.00	39.9 AV	54.0	-14.1	1.45 H	310	24.7	15.2
7	#17235.00	50.7 PK	74.0	-23.3	1.40 H	125	30.7	20.0
8	#17235.00	40.3 AV	54.0	-13.7	1.40 H	125	20.3	20.0
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	#5592.75	58.1 PK	68.2	-10.1	2.65 V	42	54.2	3.9
2	*5745.00	117.9 PK			2.65 V	42	113.7	4.2
3	*5745.00	107.3 AV			2.65 V	42	103.1	4.2
4	#5992.23	58.6 PK	68.2	-9.6	2.65 V	42	54.1	4.5
5	11490.00	49.5 PK	74.0	-24.5	1.00 V	360	34.3	15.2
6	11490.00	39.4 AV	54.0	-14.6	1.00 V	360	24.2	15.2
7	#17235.00	54.0 PK	74.0	-20.0	1.13 V	360	34.0	20.0
8	#17235.00	45.0 AV	54.0	-9.0	1.13 V	360	25.0	20.0

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)
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	#5607.95	52.9 PK	68.2	-15.3	2.44 H	135	49.0	3.9
2	*5785.00	105.7 PK			2.44 H	135	101.6	4.1
3	*5785.00	96.9 AV			2.44 H	135	92.8	4.1
4	#5998.87	53.5 PK	68.2	-14.7	2.44 H	135	49.0	4.5
5	11570.00	50.7 PK	74.0	-23.3	1.53 H	310	35.6	15.1
6	11570.00	39.7 AV	54.0	-14.3	1.53 H	310	24.6	15.1
7	#17355.00	50.5 PK	74.0	-23.5	1.43 H	130	30.0	20.5
8	#17355.00	40.5 AV	54.0	-13.5	1.43 H	130	20.0	20.5
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	#5625.52	59.3 PK	68.2	-8.9	2.88 V	62	55.3	4.0
2	*5785.00	117.7 PK			2.88 V	62	113.6	4.1
3	*5785.00	108.9 AV			2.88 V	62	104.8	4.1
4	#5952.32	57.2 PK	68.2	-11.0	2.88 V	62	52.8	4.4
5	11570.00	49.6 PK	74.0	-24.4	1.06 V	360	34.5	15.1
6	11570.00	39.3 AV	54.0	-14.7	1.06 V	360	24.2	15.1
7	#17355.00	53.5 PK	74.0	-20.5	1.05 V	360	33.0	20.5
8	#17355.00	44.0 AV	54.0	-10.0	1.05 V	360	23.5	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5599.87	53.4 PK	68.2	-14.8	2.87 H	131	49.5	3.9
2	*5825.00	105.5 PK			2.87 H	131	101.3	4.2
3	*5825.00	96.7 AV			2.87 H	131	92.5	4.2
4	#5933.32	54.8 PK	68.2	-13.4	2.87 H	131	50.4	4.4
5	11650.00	50.5 PK	74.0	-23.5	1.53 H	309	35.5	15.0
6	11650.00	39.3 AV	54.0	-14.7	1.53 H	309	24.3	15.0
7	#17475.00	50.1 PK	74.0	-23.9	1.47 H	128	29.0	21.1
8	#17475.00	39.9 AV	54.0	-14.1	1.47 H	128	18.8	21.1
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	#5575.18	59.3 PK	68.2	-8.9	2.88 V	64	55.4	3.9
2	*5825.00	116.5 PK			2.88 V	64	112.3	4.2
3	*5825.00	107.9 AV			2.88 V	64	103.7	4.2
4	#5977.98	57.4 PK	68.2	-10.8	2.88 V	64	52.9	4.5
5	11650.00	50.0 PK	74.0	-24.0	1.07 V	357	35.0	15.0
6	11650.00	39.5 AV	54.0	-14.5	1.07 V	357	24.5	15.0
7	#17475.00	53.4 PK	74.0	-20.6	1.04 V	360	32.3	21.1
8	#17475.00	44.4 AV	54.0	-9.6	1.04 V	360	23.3	21.1

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)
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	61.1 PK	74.0	-12.9	1.13 H	19	58.1	3.0
2	5150.00	48.2 AV	54.0	-5.8	1.13 H	19	45.2	3.0
3	*5180.00	105.2 PK			1.13 H	19	102.1	3.1
4	*5180.00	95.7 AV			1.13 H	19	92.6	3.1
5	#10360.00	51.3 PK	74.0	-22.7	1.54 H	304	37.7	13.6
6	#10360.00	40.0 AV	54.0	-14.0	1.54 H	304	26.4	13.6
7	15540.00	50.7 PK	74.0	-23.3	1.51 H	128	35.0	15.7
8	15540.00	40.5 AV	54.0	-13.5	1.51 H	128	24.8	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.4 PK	74.0	-7.6	3.14 V	41	63.4	3.0
2	5150.00	53.3 AV	54.0	-0.7	3.14 V	41	50.3	3.0
3	*5180.00	116.2 PK			3.27 V	40	113.1	3.1
4	*5180.00	107.0 AV			3.27 V	40	103.9	3.1
5	#10360.00	50.0 PK	74.0	-24.0	1.00 V	360	36.4	13.6
6	#10360.00	40.0 AV	54.0	-14.0	1.00 V	360	26.4	13.6
7	15540.00	53.3 PK	74.0	-20.7	1.13 V	360	37.6	15.7
8	15540.00	44.2 AV	54.0	-9.8	1.13 V	360	28.5	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5150.00	57.6 PK	74.0	-16.4	1.07 H	8	54.6	3.0
2	5150.00	43.7 AV	54.0	-10.3	1.07 H	8	40.7	3.0
3	*5200.00	106.0 PK			1.07 H	8	102.9	3.1
4	*5200.00	96.9 AV			1.07 H	8	93.8	3.1
5	5350.00	54.1 PK	74.0	-19.9	1.07 H	8	50.6	3.5
6	5350.00	45.3 AV	54.0	-8.7	1.07 H	8	41.8	3.5
7	#10400.00	50.9 PK	74.0	-23.1	1.48 H	329	37.3	13.6
8	#10400.00	39.5 AV	54.0	-14.5	1.48 H	329	25.9	13.6
9	15600.00	50.4 PK	74.0	-23.6	1.49 H	135	34.7	15.7
10	15600.00	40.0 AV	54.0	-14.0	1.49 H	135	24.3	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.4 PK	74.0	-10.6	3.24 V	44	60.4	3.0
2	5150.00	49.2 AV	54.0	-4.8	3.24 V	44	46.2	3.0
3	*5200.00	117.6 PK			3.24 V	44	114.5	3.1
4	*5200.00	108.3 AV			3.24 V	44	105.2	3.1
5	5350.00	59.1 PK	74.0	-14.9	3.33 V	44	55.6	3.5
6	5350.00	50.0 AV	54.0	-4.0	3.33 V	44	46.5	3.5
7	#10400.00	50.1 PK	74.0	-23.9	1.11 V	360	36.5	13.6
8	#10400.00	39.8 AV	54.0	-14.2	1.11 V	360	26.2	13.6
9	15600.00	53.4 PK	74.0	-20.6	1.09 V	351	37.7	15.7
10	15600.00	44.4 AV	54.0	-9.6	1.09 V	351	28.7	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5150.00	51.7 PK	74.0	-22.3	1.04 H	5	48.7	3.0
2	5150.00	41.7 AV	54.0	-12.3	1.04 H	5	38.7	3.0
3	*5240.00	107.0 PK			1.04 H	5	103.8	3.2
4	*5240.00	98.6 AV			1.04 H	5	95.4	3.2
5	5400.00	52.8 PK	74.0	-21.2	1.04 H	5	49.1	3.7
6	5400.00	43.6 AV	54.0	-10.4	1.04 H	5	39.9	3.7
7	#10480.00	50.7 PK	74.0	-23.3	1.48 H	328	36.7	14.0
8	#10480.00	39.4 AV	54.0	-14.6	1.48 H	328	25.4	14.0
9	15720.00	50.3 PK	74.0	-23.7	1.51 H	147	34.9	15.4
10	15720.00	40.0 AV	54.0	-14.0	1.51 H	147	24.6	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	3.28 V	43	53.2	3.0
2	5150.00	46.3 AV	54.0	-7.7	3.28 V	43	43.3	3.0
3	*5240.00	118.2 PK			3.28 V	43	115.0	3.2
4	*5240.00	109.8 AV			3.28 V	43	106.6	3.2
5	5400.00	58.1 PK	74.0	-15.9	3.06 V	44	54.4	3.7
6	5400.00	48.6 AV	54.0	-5.4	3.06 V	44	44.9	3.7
7	#10480.00	49.3 PK	74.0	-24.7	1.04 V	356	35.3	14.0
8	#10480.00	39.3 AV	54.0	-14.7	1.04 V	356	25.3	14.0
9	15720.00	53.8 PK	74.0	-20.2	1.04 V	352	38.4	15.4
10	15720.00	44.7 AV	54.0	-9.3	1.04 V	352	29.3	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5565.68	53.6 PK	68.2	-14.6	1.19 H	231	49.7	3.9
2	*5745.00	103.7 PK			1.19 H	231	99.5	4.2
3	*5745.00	94.5 AV			1.19 H	231	90.3	4.2
4	#5939.98	53.9 PK	68.2	-14.3	1.19 H	231	49.5	4.4
5	11490.00	50.8 PK	74.0	-23.2	1.50 H	330	35.6	15.2
6	11490.00	39.7 AV	54.0	-14.3	1.50 H	330	24.5	15.2
7	#17235.00	50.5 PK	74.0	-23.5	1.48 H	137	30.5	20.0
8	#17235.00	40.1 AV	54.0	-13.9	1.48 H	137	20.1	20.0
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	#5640.25	56.5 PK	68.2	-11.7	2.32 V	133	52.5	4.0
2	*5745.00	114.8 PK			2.32 V	133	110.6	4.2
3	*5745.00	106.2 AV			2.32 V	133	102.0	4.2
4	#5976.07	57.2 PK	68.2	-11.0	2.32 V	133	52.7	4.5
5	11490.00	50.0 PK	74.0	-24.0	1.08 V	360	34.8	15.2
6	11490.00	40.1 AV	54.0	-13.9	1.08 V	360	24.9	15.2
7	#17235.00	53.2 PK	74.0	-20.8	1.11 V	352	33.2	20.0
8	#17235.00	44.2 AV	54.0	-9.8	1.11 V	352	24.2	20.0

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)
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	#5623.62	52.6 PK	68.2	-15.6	1.15 H	219	48.6	4.0
2	*5785.00	103.6 PK			1.15 H	219	99.5	4.1
3	*5785.00	94.2 AV			1.15 H	219	90.1	4.1
4	#5966.57	52.8 PK	68.2	-15.4	1.15 H	219	48.3	4.5
5	11570.00	51.1 PK	74.0	-22.9	1.50 H	310	36.0	15.1
6	11570.00	39.6 AV	54.0	-14.4	1.50 H	310	24.5	15.1
7	#17355.00	50.5 PK	74.0	-23.5	1.44 H	140	30.0	20.5
8	#17355.00	40.1 AV	54.0	-13.9	1.44 H	140	19.6	20.5
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	#5629.32	55.9 PK	68.2	-12.3	2.55 V	132	51.9	4.0
2	*5785.00	115.1 PK			2.55 V	132	111.0	4.1
3	*5785.00	106.7 AV			2.55 V	132	102.6	4.1
4	#6018.82	56.7 PK	68.2	-11.5	2.55 V	132	52.2	4.5
5	11570.00	50.2 PK	74.0	-23.8	1.00 V	354	35.1	15.1
6	11570.00	40.1 AV	54.0	-13.9	1.00 V	354	25.0	15.1
7	#17355.00	53.9 PK	74.0	-20.1	1.07 V	360	33.4	20.5
8	#17355.00	44.4 AV	54.0	-9.6	1.07 V	360	23.9	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5619.82	52.4 PK	68.2	-15.8	1.08 H	220	48.4	4.0
2	*5825.00	103.9 PK			1.08 H	220	99.7	4.2
3	*5825.00	94.6 AV			1.08 H	220	90.4	4.2
4	#5991.75	54.1 PK	68.2	-14.1	1.08 H	220	49.6	4.5
5	11650.00	51.1 PK	74.0	-22.9	1.51 H	330	36.1	15.0
6	11650.00	39.8 AV	54.0	-14.2	1.51 H	330	24.8	15.0
7	#17475.00	50.8 PK	74.0	-23.2	1.46 H	121	29.7	21.1
8	#17475.00	40.2 AV	54.0	-13.8	1.46 H	121	19.1	21.1
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	#5589.90	57.3 PK	68.2	-10.9	2.40 V	133	53.4	3.9
2	*5825.00	114.9 PK			2.40 V	133	110.7	4.2
3	*5825.00	106.4 AV			2.40 V	133	102.2	4.2
4	#5980.82	57.4 PK	68.2	-10.8	2.40 V	133	52.9	4.5
5	11650.00	49.7 PK	74.0	-24.3	1.02 V	360	34.7	15.0
6	11650.00	39.5 AV	54.0	-14.5	1.02 V	360	24.5	15.0
7	#17475.00	53.8 PK	74.0	-20.2	1.13 V	348	32.7	21.1
8	#17475.00	44.6 AV	54.0	-9.4	1.13 V	348	23.5	21.1

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)
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	60.6 PK	74.0	-13.4	1.08 H	16	57.6	3.0
2	5150.00	48.2 AV	54.0	-5.8	1.08 H	16	45.2	3.0
3	*5190.00	97.7 PK			1.08 H	16	94.6	3.1
4	*5190.00	88.0 AV			1.08 H	16	84.9	3.1
5	5350.00	54.7 PK	74.0	-19.3	1.08 H	16	51.2	3.5
6	5350.00	45.0 AV	54.0	-9.0	1.08 H	16	41.5	3.5
7	#10380.00	50.5 PK	74.0	-23.5	1.47 H	310	36.8	13.7
8	#10380.00	39.1 AV	54.0	-14.9	1.47 H	310	25.4	13.7
9	15570.00	50.8 PK	74.0	-23.2	1.49 H	145	35.2	15.6
10	15570.00	40.4 AV	54.0	-13.6	1.49 H	145	24.8	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.8 PK	74.0	-8.2	2.92 V	154	62.8	3.0
2	5150.00	53.2 AV	54.0	-0.8	2.92 V	154	50.2	3.0
3	*5190.00	108.9 PK			3.12 V	153	105.8	3.1
4	*5190.00	99.2 AV			3.12 V	153	96.1	3.1
5	5350.00	59.1 PK	74.0	-14.9	2.97 V	137	55.6	3.5
6	5350.00	49.7 AV	54.0	-4.3	2.97 V	137	46.2	3.5
7	#10380.00	50.4 PK	74.0	-23.6	1.02 V	360	36.7	13.7
8	#10380.00	40.0 AV	54.0	-14.0	1.02 V	360	26.3	13.7
9	15570.00	53.6 PK	74.0	-20.4	1.15 V	360	38.0	15.6
10	15570.00	44.0 AV	54.0	-10.0	1.15 V	360	28.4	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)
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	63.1 PK	74.0	-10.9	1.04 H	8	60.1	3.0
2	5150.00	47.7 AV	54.0	-6.3	1.04 H	8	44.7	3.0
3	*5230.00	104.7 PK			1.04 H	8	101.5	3.2
4	*5230.00	95.9 AV			1.04 H	8	92.7	3.2
5	5390.00	58.5 PK	74.0	-15.5	1.04 H	8	54.8	3.7
6	5390.00	49.0 AV	54.0	-5.0	1.04 H	8	45.3	3.7
7	#10460.00	51.6 PK	74.0	-22.4	1.47 H	317	37.7	13.9
8	#10460.00	40.1 AV	54.0	-13.9	1.47 H	317	26.2	13.9
9	15690.00	50.4 PK	74.0	-23.6	1.41 H	150	34.8	15.6
10	15690.00	39.9 AV	54.0	-14.1	1.41 H	150	24.3	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	5150.00	68.1 PK	74.0	-5.9	2.76 V	44	65.1	3.0
2	5150.00	52.9 AV	54.0	-1.1	2.76 V	44	49.9	3.0
3	*5230.00	115.3 PK			2.88 V	46	112.1	3.2
4	*5230.00	106.4 AV			2.88 V	46	103.2	3.2
5	5390.00	63.1 PK	74.0	-10.9	2.88 V	43	59.4	3.7
6	**5390.00**	**53.9 AV**	**54.0**	**-0.1**	**2.88 V**	**43**	**50.2**	**3.7**
7	#10460.00	49.8 PK	74.0	-24.2	1.10 V	360	35.9	13.9
8	#10460.00	39.5 AV	54.0	-14.5	1.10 V	360	25.6	13.9
9	15690.00	53.8 PK	74.0	-20.2	1.06 V	354	38.2	15.6
10	15690.00	44.8 AV	54.0	-9.2	1.06 V	354	29.2	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)
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	#5576.12	53.4 PK	68.2	-14.8	2.40 H	219	49.5	3.9
2	*5755.00	100.6 PK			2.40 H	219	96.4	4.2
3	*5755.00	90.6 AV			2.40 H	219	86.4	4.2
4	#5931.43	54.0 PK	68.2	-14.2	2.40 H	219	49.6	4.4
5	11510.00	50.9 PK	74.0	-23.1	1.54 H	315	35.8	15.1
6	11510.00	39.6 AV	54.0	-14.4	1.54 H	315	24.5	15.1
7	#17265.00	51.0 PK	74.0	-23.0	1.47 H	122	31.1	19.9
8	#17265.00	40.6 AV	54.0	-13.4	1.47 H	122	20.7	19.9
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	#5602.25	62.4 PK	68.2	-5.8	2.83 V	68	58.5	3.9
2	*5755.00	115.6 PK			2.83 V	68	111.4	4.2
3	*5755.00	105.6 AV			2.83 V	68	101.4	4.2
4	#5928.57	59.6 PK	68.2	-8.6	2.83 V	68	55.2	4.4
5	11510.00	49.9 PK	74.0	-24.1	1.11 V	360	34.8	15.1
6	11510.00	39.5 AV	54.0	-14.5	1.11 V	360	24.4	15.1
7	#17265.00	53.6 PK	74.0	-20.4	1.08 V	356	33.7	19.9
8	#17265.00	44.5 AV	54.0	-9.5	1.08 V	356	24.6	19.9

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)
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	#5644.05	53.1 PK	68.2	-15.1	2.33 H	219	49.1	4.0
2	*5795.00	100.7 PK			2.33 H	219	96.6	4.1
3	*5795.00	91.9 AV			2.33 H	219	87.8	4.1
4	#5951.85	54.4 PK	68.2	-13.8	2.33 H	219	50.0	4.4
5	11590.00	51.1 PK	74.0	-22.9	1.45 H	304	36.0	15.1
6	11590.00	39.9 AV	54.0	-14.1	1.45 H	304	24.8	15.1
7	#17385.00	50.6 PK	74.0	-23.4	1.46 H	121	30.0	20.6
8	#17385.00	40.1 AV	54.0	-13.9	1.46 H	121	19.5	20.6
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	#5639.77	63.2 PK	68.2	-5.0	2.83 V	64	59.2	4.0
2	*5795.00	113.8 PK			2.83 V	64	109.7	4.1
3	*5795.00	105.1 AV			2.83 V	64	101.0	4.1
4	#5945.68	60.0 PK	68.2	-8.2	2.83 V	64	55.6	4.4
5	11590.00	50.0 PK	74.0	-24.0	1.10 V	360	34.9	15.1
6	11590.00	39.6 AV	54.0	-14.4	1.10 V	360	24.5	15.1
7	#17385.00	54.2 PK	74.0	-19.8	1.06 V	360	33.6	20.6
8	#17385.00	44.6 AV	54.0	-9.4	1.06 V	360	24.0	20.6

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)
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	5147.00	68.3 PK	74.0	-5.7	1.12 H	6	65.3	3.0
2	5147.00	43.6 AV	54.0	-10.4	1.12 H	6	40.6	3.0
3	*5210.00	92.1 PK			1.12 H	6	88.9	3.2
4	*5210.00	83.6 AV			1.12 H	6	80.4	3.2
5	#10420.00	51.5 PK	74.0	-22.5	1.48 H	306	37.7	13.8
6	#10420.00	40.1 AV	54.0	-13.9	1.48 H	306	26.3	13.8
7	15630.00	51.0 PK	74.0	-23.0	1.44 H	134	35.3	15.7
8	15630.00	40.5 AV	54.0	-13.5	1.44 H	134	24.8	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	**5147.00**	**73.9 PK**	**74.0**	**-0.1**	**2.92 V**	**44**	**70.9**	**3.0**
2	5147.00	48.9 AV	54.0	-5.1	2.92 V	44	45.9	3.0
3	*5210.00	103.4 PK			2.92 V	46	100.2	3.2
4	*5210.00	94.7 AV			2.92 V	46	91.5	3.2
5	#10420.00	49.7 PK	74.0	-24.3	1.09 V	360	35.9	13.8
6	#10420.00	39.5 AV	54.0	-14.5	1.09 V	360	25.7	13.8
7	15630.00	53.4 PK	74.0	-20.6	1.13 V	356	37.7	15.7
8	15630.00	44.3 AV	54.0	-9.7	1.13 V	356	28.6	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5650.23	59.1 PK	68.4	-9.3	2.25 H	289	55.1	4.0
2	*5775.00	97.6 PK			2.25 H	289	93.4	4.2
3	*5775.00	88.2 AV			2.25 H	289	84.0	4.2
4	#5956.60	54.6 PK	68.2	-13.6	2.25 H	289	50.2	4.4
5	11550.00	51.0 PK	74.0	-23.0	1.47 H	319	35.8	15.2
6	11550.00	39.7 AV	54.0	-14.3	1.47 H	319	24.5	15.2
7	#17325.00	50.7 PK	74.0	-23.3	1.43 H	127	30.4	20.3
8	#17325.00	40.2 AV	54.0	-13.8	1.43 H	127	19.9	20.3
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	#5650.70	68.4 PK	68.7	-0.3	2.66 V	136	64.4	4.0
2	*5775.00	110.1 PK			2.66 V	136	105.9	4.2
3	*5775.00	100.1 AV			2.66 V	136	95.9	4.2
4	#5946.15	61.7 PK	68.2	-6.5	2.66 V	136	57.3	4.4
5	11550.00	49.9 PK	74.0	-24.1	1.01 V	360	34.7	15.2
6	11550.00	39.5 AV	54.0	-14.5	1.01 V	360	24.3	15.2
7	#17325.00	53.1 PK	74.0	-20.9	1.14 V	360	32.8	20.3
8	#17325.00	44.1 AV	54.0	-9.9	1.14 V	360	23.8	20.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Radio 2 - 2TX with Dipole antenna CDD Mode

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	73.1 PK	74.0	-0.9	2.94 H	166	70.1	3.0
2	5150.00	53.6 AV	54.0	-0.4	2.94 H	166	50.6	3.0
3	*5180.00	116.7 PK			2.95 H	163	113.6	3.1
4	*5180.00	107.2 AV			2.95 H	163	104.1	3.1
5	#10360.00	50.0 PK	74.0	-24.0	1.50 H	103	36.4	13.6
6	#10360.00	40.0 AV	54.0	-14.0	1.50 H	103	26.4	13.6
7	15540.00	53.2 PK	74.0	-20.8	2.02 H	313	37.5	15.7
8	15540.00	44.1 AV	54.0	-9.9	2.02 H	313	28.4	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.1 PK	74.0	-5.9	3.48 V	129	65.1	3.0
2	5150.00	48.6 AV	54.0	-5.4	3.48 V	129	45.6	3.0
3	*5180.00	102.2 PK			3.48 V	129	99.1	3.1
4	*5180.00	93.9 AV			3.48 V	129	90.8	3.1
5	#10360.00	51.1 PK	74.0	-22.9	1.27 V	85	37.5	13.6
6	#10360.00	40.2 AV	54.0	-13.8	1.27 V	85	26.6	13.6
7	15540.00	50.3 PK	74.0	-23.7	3.00 V	158	34.6	15.7
8	15540.00	40.4 AV	54.0	-13.6	3.00 V	158	24.7	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5150.00	58.9 PK	74.0	-15.1	3.02 H	163	55.9	3.0
2	5150.00	47.0 AV	54.0	-7.0	3.02 H	163	44.0	3.0
3	*5200.00	117.3 PK			3.02 H	163	114.2	3.1
4	*5200.00	108.1 AV			3.02 H	163	105.0	3.1
5	5360.00	56.4 PK	74.0	-17.6	3.02 H	163	52.9	3.5
6	5360.00	46.2 AV	54.0	-7.8	3.02 H	163	42.7	3.5
7	#10400.00	50.6 PK	74.0	-23.4	1.56 H	113	37.0	13.6
8	#10400.00	40.4 AV	54.0	-13.6	1.56 H	113	26.8	13.6
9	15600.00	53.1 PK	74.0	-20.9	1.96 H	327	37.4	15.7
10	15600.00	43.7 AV	54.0	-10.3	1.96 H	327	28.0	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	54.0 PK	74.0	-20.0	3.45 V	123	51.0	3.0
2	5150.00	41.9 AV	54.0	-12.1	3.45 V	123	38.9	3.0
3	*5200.00	103.9 PK			3.45 V	123	100.8	3.1
4	*5200.00	94.8 AV			3.45 V	123	91.7	3.1
5	5360.00	51.5 PK	74.0	-22.5	3.45 V	123	48.0	3.5
6	5360.00	41.0 AV	54.0	-13.0	3.45 V	123	37.5	3.5
7	#10400.00	51.4 PK	74.0	-22.6	1.21 V	79	37.8	13.6
8	#10400.00	40.4 AV	54.0	-13.6	1.21 V	79	26.8	13.6
9	15600.00	50.3 PK	74.0	-23.7	2.96 V	149	34.6	15.7
10	15600.00	40.4 AV	54.0	-13.6	2.96 V	149	24.7	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5150.00	54.8 PK	74.0	-19.2	3.36 H	350	51.8	3.0
2	5150.00	44.1 AV	54.0	-9.9	3.36 H	350	41.1	3.0
3	*5240.00	117.2 PK			3.36 H	350	114.0	3.2
4	*5240.00	109.1 AV			3.36 H	350	105.9	3.2
5	5400.00	55.6 PK	74.0	-18.4	2.81 H	350	51.9	3.7
6	5400.00	45.6 AV	54.0	-8.4	2.81 H	350	41.9	3.7
7	#10480.00	49.5 PK	74.0	-24.5	1.50 H	118	35.5	14.0
8	#10480.00	39.7 AV	54.0	-14.3	1.50 H	118	25.7	14.0
9	15720.00	52.6 PK	74.0	-21.4	2.01 H	312	37.2	15.4
10	15720.00	43.6 AV	54.0	-10.4	2.01 H	312	28.2	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	49.5 PK	74.0	-24.5	3.48 V	135	46.5	3.0
2	5150.00	39.0 AV	54.0	-15.0	3.48 V	135	36.0	3.0
3	*5240.00	104.2 PK			3.48 V	135	101.0	3.2
4	*5240.00	96.2 AV			3.48 V	135	93.0	3.2
5	5400.00	51.0 PK	74.0	-23.0	3.48 V	135	47.3	3.7
6	5400.00	41.0 AV	54.0	-13.0	3.48 V	135	37.3	3.7
7	#10480.00	50.8 PK	74.0	-23.2	1.22 V	78	36.8	14.0
8	#10480.00	39.9 AV	54.0	-14.1	1.22 V	78	25.9	14.0
9	15720.00	50.6 PK	74.0	-23.4	2.96 V	153	35.2	15.4
10	15720.00	40.6 AV	54.0	-13.4	2.96 V	153	25.2	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5630.27	58.7 PK	68.2	-9.5	2.48 H	288	54.7	4.0
2	*5745.00	116.1 PK			2.48 H	288	111.9	4.2
3	*5745.00	107.5 AV			2.48 H	288	103.3	4.2
4	#5977.02	58.6 PK	68.2	-9.6	2.48 H	288	54.1	4.5
5	11490.00	49.8 PK	74.0	-24.2	1.49 H	112	34.6	15.2
6	11490.00	40.0 AV	54.0	-14.0	1.49 H	112	24.8	15.2
7	#17235.00	52.7 PK	74.0	-21.3	1.98 H	305	32.7	20.0
8	#17235.00	43.7 AV	54.0	-10.3	1.98 H	305	23.7	20.0
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	#5566.62	52.9 PK	68.2	-15.3	3.03 V	126	49.0	3.9
2	*5745.00	100.9 PK			3.03 V	126	96.7	4.2
3	*5745.00	92.7 AV			3.03 V	126	88.5	4.2
4	#6023.57	53.4 PK	68.2	-14.8	3.03 V	126	48.8	4.6
5	11490.00	50.9 PK	74.0	-23.1	1.22 V	93	35.7	15.2
6	11490.00	40.2 AV	54.0	-13.8	1.22 V	93	25.0	15.2
7	#17235.00	50.7 PK	74.0	-23.3	2.97 V	168	30.7	20.0
8	#17235.00	40.7 AV	54.0	-13.3	2.97 V	168	20.7	20.0

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)
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	#5626.95	58.3 PK	68.2	-9.9	2.50 H	282	54.3	4.0
2	*5785.00	116.2 PK			2.50 H	282	112.1	4.1
3	*5785.00	107.3 AV			2.50 H	282	103.2	4.1
4	#5948.05	57.3 PK	68.2	-10.9	2.50 H	282	52.9	4.4
5	11570.00	50.2 PK	74.0	-23.8	1.48 H	104	35.1	15.1
6	11570.00	39.9 AV	54.0	-14.1	1.48 H	104	24.8	15.1
7	#17355.00	54.0 PK	74.0	-20.0	2.03 H	317	33.5	20.5
8	#17355.00	44.6 AV	54.0	-9.4	2.03 H	317	24.1	20.5
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	#5565.20	53.6 PK	68.2	-14.6	3.03 V	115	49.7	3.9
2	*5785.00	101.3 PK			3.03 V	115	97.2	4.1
3	*5785.00	92.8 AV			3.03 V	115	88.7	4.1
4	#5988.43	53.2 PK	68.2	-15.0	3.03 V	115	48.7	4.5
5	11570.00	51.4 PK	74.0	-22.6	1.28 V	83	36.3	15.1
6	11570.00	40.5 AV	54.0	-13.5	1.28 V	83	25.4	15.1
7	#17355.00	50.2 PK	74.0	-23.8	2.99 V	147	29.7	20.5
8	#17355.00	40.1 AV	54.0	-13.9	2.99 V	147	19.6	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5577.07	58.7 PK	68.2	-9.5	2.47 H	283	54.8	3.9
2	*5825.00	116.1 PK			2.47 H	283	111.9	4.2
3	*5825.00	107.3 AV			2.47 H	283	103.1	4.2
4	#5983.20	57.2 PK	68.2	-11.0	2.47 H	283	52.7	4.5
5	11650.00	50.1 PK	74.0	-23.9	1.55 H	116	35.1	15.0
6	11650.00	40.3 AV	54.0	-13.7	1.55 H	116	25.3	15.0
7	#17475.00	53.6 PK	74.0	-20.4	2.06 H	317	32.5	21.1
8	#17475.00	44.2 AV	54.0	-9.8	2.06 H	317	23.1	21.1
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	#5561.40	53.4 PK	68.2	-14.8	3.03 V	128	49.5	3.9
2	*5825.00	101.5 PK			3.03 V	128	97.3	4.2
3	*5825.00	93.0 AV			3.03 V	128	88.8	4.2
4	#5929.52	52.8 PK	68.2	-15.4	3.03 V	128	48.4	4.4
5	11650.00	51.5 PK	74.0	-22.5	1.32 V	77	36.5	15.0
6	11650.00	40.5 AV	54.0	-13.5	1.32 V	77	25.5	15.0
7	#17475.00	50.1 PK	74.0	-23.9	3.01 V	145	29.0	21.1
8	#17475.00	40.0 AV	54.0	-14.0	3.01 V	145	18.9	21.1

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)
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	71.1 PK	74.0	-2.9	2.66 H	355	68.1	3.0
2	5150.00	53.8 AV	54.0	-0.2	2.66 H	355	50.8	3.0
3	*5180.00	116.7 PK			2.61 H	356	113.6	3.1
4	*5180.00	107.3 AV			2.61 H	356	104.2	3.1
5	#10360.00	50.4 PK	74.0	-23.6	1.47 H	111	36.8	13.6
6	#10360.00	40.3 AV	54.0	-13.7	1.47 H	111	26.7	13.6
7	15540.00	53.3 PK	74.0	-20.7	1.99 H	326	37.6	15.7
8	15540.00	44.1 AV	54.0	-9.9	1.99 H	326	28.4	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	66.4 PK	74.0	-7.6	3.43 V	118	63.4	3.0
2	5150.00	49.1 AV	54.0	-4.9	3.43 V	118	46.1	3.0
3	*5180.00	103.4 PK			3.43 V	118	100.3	3.1
4	*5180.00	93.8 AV			3.43 V	118	90.7	3.1
5	#10360.00	51.1 PK	74.0	-22.9	1.30 V	98	37.5	13.6
6	#10360.00	40.3 AV	54.0	-13.7	1.30 V	98	26.7	13.6
7	15540.00	50.1 PK	74.0	-23.9	2.96 V	148	34.4	15.7
8	15540.00	40.4 AV	54.0	-13.6	2.96 V	148	24.7	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5148.00	58.5 PK	74.0	-15.5	2.62 H	360	55.5	3.0
2	5148.00	46.9 AV	54.0	-7.1	2.62 H	360	43.9	3.0
3	*5200.00	116.5 PK			2.62 H	360	113.4	3.1
4	*5200.00	107.1 AV			2.62 H	360	104.0	3.1
5	5350.00	56.1 PK	74.0	-17.9	2.54 H	354	52.6	3.5
6	5350.00	46.7 AV	54.0	-7.3	2.54 H	354	43.2	3.5
7	#10400.00	49.9 PK	74.0	-24.1	1.54 H	97	36.3	13.6
8	#10400.00	40.1 AV	54.0	-13.9	1.54 H	97	26.5	13.6
9	15600.00	53.1 PK	74.0	-20.9	1.96 H	320	37.4	15.7
10	15600.00	44.0 AV	54.0	-10.0	1.96 H	320	28.3	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5148.00	53.6 PK	74.0	-20.4	3.44 V	116	50.6	3.0
2	5148.00	41.9 AV	54.0	-12.1	3.44 V	116	38.9	3.0
3	*5200.00	104.3 PK			3.44 V	116	101.2	3.1
4	*5200.00	94.6 AV			3.44 V	116	91.5	3.1
5	5350.00	51.0 PK	74.0	-23.0	3.44 V	116	47.5	3.5
6	5350.00	41.4 AV	54.0	-12.6	3.44 V	116	37.9	3.5
7	#10400.00	51.3 PK	74.0	-22.7	1.31 V	92	37.7	13.6
8	#10400.00	40.6 AV	54.0	-13.4	1.31 V	92	27.0	13.6
9	15600.00	50.3 PK	74.0	-23.7	2.98 V	158	34.6	15.7
10	15600.00	40.3 AV	54.0	-13.7	2.98 V	158	24.6	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	5150.00	54.7 PK	74.0	-19.3	2.78 H	353	51.7	3.0
2	5150.00	44.2 AV	54.0	-9.8	2.78 H	353	41.2	3.0
3	*5240.00	116.1 PK			2.78 H	353	112.9	3.2
4	*5240.00	107.6 AV			2.78 H	353	104.4	3.2
5	5400.00	56.1 PK	74.0	-17.9	2.78 H	355	52.4	3.7
6	5400.00	44.9 AV	54.0	-9.1	2.78 H	355	41.2	3.7
7	#10480.00	50.0 PK	74.0	-24.0	1.52 H	101	36.0	14.0
8	#10480.00	39.9 AV	54.0	-14.1	1.52 H	101	25.9	14.0
9	15720.00	53.3 PK	74.0	-20.7	2.07 H	315	37.9	15.4
10	15720.00	44.4 AV	54.0	-9.6	2.07 H	315	29.0	15.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	49.6 PK	74.0	-24.4	3.51 V	117	46.6	3.0
2	5150.00	39.1 AV	54.0	-14.9	3.51 V	117	36.1	3.0
3	*5240.00	102.6 PK			3.51 V	117	99.4	3.2
4	*5240.00	94.3 AV			3.51 V	117	91.1	3.2
5	5400.00	51.1 PK	74.0	-22.9	3.51 V	117	47.4	3.7
6	5400.00	39.9 AV	54.0	-14.1	3.51 V	117	36.2	3.7
7	#10480.00	50.9 PK	74.0	-23.1	1.29 V	84	36.9	14.0
8	#10480.00	40.0 AV	54.0	-14.0	1.29 V	84	26.0	14.0
9	15720.00	49.9 PK	74.0	-24.1	3.02 V	164	34.5	15.4
10	15720.00	39.9 AV	54.0	-14.1	3.02 V	164	24.5	15.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5592.75	58.4 PK	68.2	-9.8	2.58 H	284	54.5	3.9
2	*5745.00	116.4 PK			2.58 H	284	112.2	4.2
3	*5745.00	106.7 AV			2.58 H	284	102.5	4.2
4	#5976.55	57.2 PK	68.2	-11.0	2.58 H	284	52.7	4.5
5	11490.00	50.1 PK	74.0	-23.9	1.49 H	115	34.9	15.2
6	11490.00	40.1 AV	54.0	-13.9	1.49 H	115	24.9	15.2
7	#17235.00	53.3 PK	74.0	-20.7	2.04 H	308	33.3	20.0
8	#17235.00	44.0 AV	54.0	-10.0	2.04 H	308	24.0	20.0
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	#5649.27	53.5 PK	68.2	-14.7	2.95 V	144	49.5	4.0
2	*5745.00	102.3 PK			2.95 V	144	98.1	4.2
3	*5745.00	92.4 AV			2.95 V	144	88.2	4.2
4	#5965.15	53.0 PK	68.2	-15.2	2.95 V	144	48.5	4.5
5	11490.00	50.5 PK	74.0	-23.5	1.29 V	81	35.3	15.2
6	11490.00	39.8 AV	54.0	-14.2	1.29 V	81	24.6	15.2
7	#17235.00	50.3 PK	74.0	-23.7	2.99 V	143	30.3	20.0
8	#17235.00	40.6 AV	54.0	-13.4	2.99 V	143	20.6	20.0

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)
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	#5550.00	58.4 PK	68.2	-9.8	2.62 H	278	54.5	3.9
2	*5785.00	117.0 PK			2.62 H	278	112.9	4.1
3	*5785.00	107.1 AV			2.62 H	278	103.0	4.1
4	#5948.52	58.5 PK	68.2	-9.7	2.62 H	278	54.1	4.4
5	11570.00	49.6 PK	74.0	-24.4	1.45 H	96	34.5	15.1
6	11570.00	39.9 AV	54.0	-14.1	1.45 H	96	24.8	15.1
7	#17355.00	53.7 PK	74.0	-20.3	2.08 H	306	33.2	20.5
8	#17355.00	44.5 AV	54.0	-9.5	2.08 H	306	24.0	20.5
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	#5610.80	52.9 PK	68.2	-15.3	2.93 V	135	49.0	3.9
2	*5785.00	101.6 PK			2.93 V	135	97.5	4.1
3	*5785.00	91.9 AV			2.93 V	135	87.8	4.1
4	#5962.30	53.1 PK	68.2	-15.1	2.93 V	135	48.6	4.5
5	11570.00	51.0 PK	74.0	-23.0	1.23 V	71	35.9	15.1
6	11570.00	40.3 AV	54.0	-13.7	1.23 V	71	25.2	15.1
7	#17355.00	50.1 PK	74.0	-23.9	3.05 V	155	29.6	20.5
8	#17355.00	40.3 AV	54.0	-13.7	3.05 V	155	19.8	20.5

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) 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	#5573.75	58.4 PK	68.2	-9.8	2.59 H	278	54.5	3.9
2	*5825.00	116.0 PK			2.59 H	278	111.8	4.2
3	*5825.00	106.3 AV			2.59 H	278	102.1	4.2
4	#5981.77	57.3 PK	68.2	-10.9	2.59 H	278	52.8	4.5
5	11650.00	49.7 PK	74.0	-24.3	1.52 H	116	34.7	15.0
6	11650.00	39.7 AV	54.0	-14.3	1.52 H	116	24.7	15.0
7	#17475.00	53.0 PK	74.0	-21.0	2.06 H	300	31.9	21.1
8	#17475.00	44.0 AV	54.0	-10.0	2.06 H	300	22.9	21.1
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	#5550.48	53.9 PK	68.2	-14.3	2.93 V	130	50.0	3.9
2	*5825.00	101.8 PK			2.93 V	130	97.6	4.2
3	*5825.00	92.1 AV			2.93 V	130	87.9	4.2
4	#5943.30	53.5 PK	68.2	-14.7	2.93 V	130	49.1	4.4
5	11650.00	51.6 PK	74.0	-22.4	1.22 V	73	36.6	15.0
6	11650.00	40.5 AV	54.0	-13.5	1.22 V	73	25.5	15.0
7	#17475.00	50.5 PK	74.0	-23.5	2.99 V	157	29.4	21.1
8	#17475.00	40.7 AV	54.0	-13.3	2.99 V	157	19.6	21.1

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)
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	64.6 PK	74.0	-9.4	3.08 H	360	61.6	3.0
2	5150.00	53.7 AV	54.0	-0.3	3.08 H	360	50.7	3.0
3	*5190.00	107.9 PK			3.08 H	360	104.8	3.1
4	*5190.00	98.1 AV			3.08 H	360	95.0	3.1
5	5360.00	58.6 PK	74.0	-15.4	3.07 H	360	55.1	3.5
6	5360.00	49.3 AV	54.0	-4.7	3.07 H	360	45.8	3.5
7	#10380.00	49.9 PK	74.0	-24.1	1.51 H	98	36.2	13.7
8	#10380.00	39.9 AV	54.0	-14.1	1.51 H	98	26.2	13.7
9	15570.00	53.4 PK	74.0	-20.6	2.04 H	305	37.8	15.6
10	15570.00	44.6 AV	54.0	-9.4	2.04 H	305	29.0	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	3.50 V	116	56.3	3.0
2	5150.00	48.2 AV	54.0	-5.8	3.50 V	116	45.2	3.0
3	*5190.00	95.2 PK			3.50 V	116	92.1	3.1
4	*5190.00	85.5 AV			3.50 V	116	82.4	3.1
5	5360.00	53.5 PK	74.0	-20.5	3.50 V	116	50.0	3.5
6	5360.00	44.0 AV	54.0	-10.0	3.50 V	116	40.5	3.5
7	#10380.00	51.3 PK	74.0	-22.7	1.26 V	71	37.6	13.7
8	#10380.00	40.1 AV	54.0	-13.9	1.26 V	71	26.4	13.7
9	15570.00	50.3 PK	74.0	-23.7	3.03 V	174	34.7	15.6
10	15570.00	40.3 AV	54.0	-13.7	3.03 V	174	24.7	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)
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	61.4 PK	74.0	-12.6	2.49 H	352	58.4	3.0
2	5150.00	49.4 AV	54.0	-4.6	2.49 H	352	46.4	3.0
3	*5230.00	113.3 PK			2.45 H	358	110.1	3.2
4	*5230.00	103.7 AV			2.45 H	358	100.5	3.2
5	5390.00	60.3 PK	74.0	-13.7	2.45 H	289	56.6	3.7
6	5390.00	51.1 AV	54.0	-2.9	2.45 H	289	47.4	3.7
7	#10460.00	49.7 PK	74.0	-24.3	1.53 H	118	35.8	13.9
8	#10460.00	39.9 AV	54.0	-14.1	1.53 H	118	26.0	13.9
9	15690.00	53.2 PK	74.0	-20.8	2.07 H	298	37.6	15.6
10	15690.00	44.4 AV	54.0	-9.6	2.07 H	298	28.8	15.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	3.52 V	134	52.8	3.0
2	5150.00	44.0 AV	54.0	-10.0	3.52 V	134	41.0	3.0
3	*5230.00	101.1 PK			3.52 V	134	97.9	3.2
4	*5230.00	91.2 AV			3.52 V	134	88.0	3.2
5	5390.00	55.5 PK	74.0	-18.5	3.52 V	134	51.8	3.7
6	5390.00	46.1 AV	54.0	-7.9	3.52 V	134	42.4	3.7
7	#10460.00	51.0 PK	74.0	-23.0	1.28 V	101	37.1	13.9
8	#10460.00	40.0 AV	54.0	-14.0	1.28 V	101	26.1	13.9
9	15690.00	50.7 PK	74.0	-23.3	3.00 V	152	35.1	15.6
10	15690.00	40.9 AV	54.0	-13.1	3.00 V	152	25.3	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)
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	#5608.43	61.9 PK	68.2	-6.3	2.72 H	283	58.0	3.9
2	*5755.00	113.8 PK			2.72 H	283	109.6	4.2
3	*5755.00	104.3 AV			2.72 H	283	100.1	4.2
4	#5991.75	58.5 PK	68.2	-9.7	2.72 H	283	54.0	4.5
5	11510.00	50.0 PK	74.0	-24.0	1.49 H	105	34.9	15.1
6	11510.00	39.8 AV	54.0	-14.2	1.49 H	105	24.7	15.1
7	#17265.00	52.9 PK	74.0	-21.1	2.02 H	324	33.0	19.9
8	#17265.00	43.9 AV	54.0	-10.1	2.02 H	324	24.0	19.9
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	#5642.62	53.8 PK	68.2	-14.4	2.52 V	353	49.8	4.0
2	*5755.00	97.6 PK			2.52 V	353	93.4	4.2
3	*5755.00	87.9 AV			2.52 V	353	83.7	4.2
4	#5985.10	53.1 PK	68.2	-15.1	2.52 V	353	48.6	4.5
5	11510.00	51.1 PK	74.0	-22.9	1.25 V	96	36.0	15.1
6	11510.00	40.4 AV	54.0	-13.6	1.25 V	96	25.3	15.1
7	#17265.00	50.6 PK	74.0	-23.4	2.97 V	157	30.7	19.9
8	#17265.00	40.5 AV	54.0	-13.5	2.97 V	157	20.6	19.9

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)
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	#5645.95	63.3 PK	68.2	-4.9	2.77 H	278	59.3	4.0
2	*5795.00	114.0 PK			2.77 H	278	109.9	4.1
3	*5795.00	104.4 AV			2.77 H	278	100.3	4.1
4	#5939.02	61.1 PK	68.2	-7.1	2.77 H	278	56.7	4.4
5	11590.00	50.4 PK	74.0	-23.6	1.56 H	109	35.3	15.1
6	11590.00	40.1 AV	54.0	-13.9	1.56 H	109	25.0	15.1
7	#17385.00	52.8 PK	74.0	-21.2	2.06 H	305	32.2	20.6
8	#17385.00	43.9 AV	54.0	-10.1	2.06 H	305	23.3	20.6
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	#5593.70	53.2 PK	68.2	-15.0	2.54 V	352	49.3	3.9
2	*5795.00	98.0 PK			2.54 V	352	93.9	4.1
3	*5795.00	88.1 AV			2.54 V	352	84.0	4.1
4	#5993.65	53.2 PK	68.2	-15.0	2.54 V	352	48.7	4.5
5	11590.00	51.2 PK	74.0	-22.8	1.31 V	74	36.1	15.1
6	11590.00	40.3 AV	54.0	-13.7	1.31 V	74	25.2	15.1
7	#17385.00	50.8 PK	74.0	-23.2	3.04 V	152	30.2	20.6
8	#17385.00	40.6 AV	54.0	-13.4	3.04 V	152	20.0	20.6

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)
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	**5145.00**	**73.9 PK**	**74.0**	**-0.1**	**3.23 H**	**353**	**70.9**	**3.0**
2	5145.00	49.4 AV	54.0	-4.6	3.23 H	353	46.4	3.0
3	*5210.00	102.8 PK			3.23 H	353	99.6	3.2
4	*5210.00	94.3 AV			3.23 H	353	91.1	3.2
5	#10420.00	50.2 PK	74.0	-23.8	1.54 H	115	36.4	13.8
6	#10420.00	40.3 AV	54.0	-13.7	1.54 H	115	26.5	13.8
7	15630.00	53.5 PK	74.0	-20.5	2.08 H	310	37.8	15.7
8	15630.00	44.4 AV	54.0	-9.6	2.08 H	310	28.7	15.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.00	69.4 PK	74.0	-4.6	3.44 V	144	66.4	3.0
2	5145.00	44.7 AV	54.0	-9.3	3.44 V	144	41.7	3.0
3	*5210.00	90.3 PK			3.44 V	144	87.1	3.2
4	*5210.00	81.7 AV			3.44 V	144	78.5	3.2
5	#10420.00	50.5 PK	74.0	-23.5	1.26 V	92	36.7	13.8
6	#10420.00	39.8 AV	54.0	-14.2	1.26 V	92	26.0	13.8
7	15630.00	50.8 PK	74.0	-23.2	3.01 V	171	35.1	15.7
8	15630.00	40.8 AV	54.0	-13.2	3.01 V	171	25.1	15.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
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	#5652.12	69.1 PK	69.8	-0.7	3.11 H	351	65.1	4.0
2	*5775.00	111.0 PK			3.11 H	351	106.8	4.2
3	*5775.00	99.9 AV			3.11 H	351	95.7	4.2
4	#5927.62	60.2 PK	68.2	-8.0	3.11 H	351	55.8	4.4
5	11550.00	49.5 PK	74.0	-24.5	1.50 H	88	34.3	15.2
6	11550.00	39.7 AV	54.0	-14.3	1.50 H	88	24.5	15.2
7	#17325.00	53.2 PK	74.0	-20.8	2.04 H	304	32.9	20.3
8	#17325.00	43.9 AV	54.0	-10.1	2.04 H	304	23.6	20.3
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	#5649.27	54.0 PK	68.2	-14.2	2.19 V	254	50.0	4.0
2	*5775.00	94.1 PK			2.19 V	254	89.9	4.2
3	*5775.00	84.4 AV			2.19 V	254	80.2	4.2
4	#5939.98	53.7 PK	68.2	-14.5	2.19 V	254	49.3	4.4
5	11550.00	50.6 PK	74.0	-23.4	1.21 V	76	35.4	15.2
6	11550.00	39.8 AV	54.0	-14.2	1.21 V	76	24.6	15.2
7	#17325.00	50.4 PK	74.0	-23.6	3.06 V	155	30.1	20.3
8	#17325.00	40.3 AV	54.0	-13.7	3.06 V	155	20.0	20.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Below 1GHz Worst-Case Data:

Radio 1 - 4TX CDD Mode

802.11ac (VHT20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	98.09	31.1 QP	43.5	-12.4	2.00 H	256	44.3	-13.2
2	209.84	34.2 QP	43.5	-9.3	1.50 H	254	45.6	-11.4
3	269.46	30.8 QP	46.0	-15.2	1.00 H	102	39.2	-8.4
4	343.77	30.7 QP	46.0	-15.3	1.00 H	324	37.2	-6.5
5	400.06	32.9 QP	46.0	-13.1	1.00 H	224	37.9	-5.0
6	800.05	33.8 QP	46.0	-12.2	1.00 H	123	30.7	3.1
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	37.94	35.8 QP	40.0	-4.2	1.00 V	355	45.0	-9.2
2	72.11	35.2 QP	40.0	-4.8	1.00 V	137	46.2	-11.0
3	157.11	35.2 QP	43.5	-8.3	1.00 V	111	43.5	-8.3
4	302.86	34.6 QP	46.0	-11.4	1.00 V	333	41.9	-7.3
5	400.15	32.0 QP	46.0	-14.0	1.00 V	175	37.0	-5.0
6	644.31	30.1 QP	46.0	-15.9	2.00 V	216	29.4	0.7

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	148.49	34.4 QP	43.5	-9.1	2.00 H	244	42.8	-8.4
2	180.81	37.3 QP	43.5	-6.2	1.50 H	282	46.9	-9.6
3	274.82	35.0 QP	46.0	-11.0	1.00 H	235	43.1	-8.2
4	400.00	36.1 QP	46.0	-9.9	1.00 H	306	41.1	-5.0
5	799.99	36.1 QP	46.0	-9.9	1.00 H	312	33.0	3.1
6	899.99	34.7 QP	46.0	-11.3	1.50 H	295	30.4	4.3
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	66.36	36.1 QP	40.0	-3.9	1.00 V	258	45.9	-9.8
2	149.29	36.6 QP	43.5	-6.9	1.50 V	220	45.0	-8.4
3	180.77	36.1 QP	43.5	-7.4	1.00 V	260	45.7	-9.6
4	275.13	34.7 QP	46.0	-11.3	1.00 V	324	42.9	-8.2
5	400.00	36.4 QP	46.0	-9.7	1.00 V	319	41.4	-5.0
6	900.00	35.0 QP	46.0	-11.0	1.00 V	335	30.7	4.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Radio 2 - 4TX with PIFA antenna CDD Mode

802.11ac (VHT20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	98.22	31.2 QP	43.5	-12.3	2.00 H	237	44.4	-13.2
2	209.54	34.2 QP	43.5	-9.3	1.50 H	235	45.6	-11.4
3	269.27	30.5 QP	46.0	-15.5	1.00 H	125	39.0	-8.5
4	343.65	30.4 QP	46.0	-15.6	1.00 H	316	36.9	-6.5
5	400.15	33.2 QP	46.0	-12.8	1.00 H	217	38.2	-5.0
6	800.22	33.6 QP	46.0	-12.4	1.00 H	134	30.5	3.1
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	37.57	35.5 QP	40.0	-4.5	1.00 V	308	44.8	-9.3
2	72.26	35.2 QP	40.0	-4.8	1.00 V	134	46.2	-11.0
3	157.15	35.2 QP	43.5	-8.3	1.00 V	119	43.5	-8.3
4	302.44	34.5 QP	46.0	-11.5	1.00 V	315	41.8	-7.3
5	400.17	32.3 QP	46.0	-13.7	1.00 V	139	37.3	-5.0
6	644.14	30.3 QP	46.0	-15.7	2.00 V	205	29.6	0.7

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	148.22	34.1 QP	43.5	-9.5	2.00 H	174	42.4	-8.4
2	180.76	37.3 QP	43.5	-6.2	1.50 H	287	46.9	-9.6
3	274.93	35.4 QP	46.0	-10.7	1.00 H	338	43.5	-8.2
4	400.14	36.2 QP	46.0	-9.8	1.00 H	231	41.2	-5.0
5	799.99	36.5 QP	46.0	-9.5	1.00 H	296	33.4	3.1
6	900.01	34.7 QP	46.0	-11.3	1.50 H	298	30.4	4.3
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	66.23	36.0 QP	40.0	-4.0	1.00 V	360	45.8	-9.8
2	149.47	36.4 QP	43.5	-7.1	1.50 V	250	44.8	-8.4
3	180.77	35.9 QP	43.5	-7.6	1.00 V	279	45.6	-9.6
4	275.27	34.6 QP	46.0	-11.4	1.00 V	284	42.7	-8.2
5	399.96	36.2 QP	46.0	-9.8	1.00 V	304	41.2	-5.0
6	900.08	34.9 QP	46.0	-11.1	1.00 V	317	30.6	4.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Radio 2 - 4TX with Dipole antenna CDD Mode

802.11ac (VHT20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	98.14	31.1 QP	43.5	-12.4	2.00 H	244	44.3	-13.2
2	209.67	34.1 QP	43.5	-9.4	1.50 H	243	45.5	-11.4
3	269.35	30.6 QP	46.0	-15.4	1.00 H	105	39.0	-8.4
4	343.74	30.5 QP	46.0	-15.5	1.00 H	308	37.0	-6.5
5	400.05	33.1 QP	46.0	-12.9	1.00 H	207	38.1	-5.0
6	800.14	33.7 QP	46.0	-12.3	1.00 H	126	30.6	3.1
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	37.64	35.6 QP	40.0	-4.4	1.00 V	316	44.9	-9.3
2	72.32	35.2 QP	40.0	-4.8	1.00 V	140	46.2	-11.0
3	157.27	35.2 QP	43.5	-8.3	1.00 V	106	43.5	-8.3
4	302.50	34.6 QP	46.0	-11.4	1.00 V	304	41.9	-7.3
5	400.25	32.2 QP	46.0	-13.8	1.00 V	151	37.2	-5.0
6	644.25	30.3 QP	46.0	-15.7	2.00 V	216	29.6	0.7

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	148.35	34.4 QP	43.5	-9.1	2.00 H	194	42.8	-8.4
2	180.88	37.5 QP	43.5	-6.0	1.50 H	294	47.2	-9.6
3	275.02	35.4 QP	46.0	-10.6	1.00 H	324	43.6	-8.2
4	400.16	36.3 QP	46.0	-9.7	1.00 H	207	41.3	-5.0
5	799.96	36.2 QP	46.0	-9.8	1.00 H	265	33.2	3.1
6	899.88	34.5 QP	46.0	-11.5	1.50 H	322	30.2	4.3
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	66.42	36.2 QP	40.0	-3.8	1.00 V	250	46.0	-9.8
2	149.61	36.3 QP	43.5	-7.2	1.50 V	264	44.7	-8.4
3	180.63	35.7 QP	43.5	-7.8	1.00 V	209	45.3	-9.6
4	275.48	34.4 QP	46.0	-11.6	1.00 V	267	42.5	-8.2
5	399.84	36.4 QP	46.0	-9.6	1.00 V	284	41.4	-5.0
6	899.89	34.6 QP	46.0	-11.4	1.00 V	302	30.4	4.3

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)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

Note: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver R&S	ESCS 30	847124/029	Oct. 23, 2015	Oct. 22, 2016
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 28, 2015	Oct. 27, 2016
RF Cable	5D-FB	COACAB-002	Mar. 04, 2016	Mar. 03, 2017
10 dB PAD Mini-Circuits	HAT-10+	CONATT-004	Jun. 20, 2015	Jun. 19, 2016
Software BVADT	BVADT_Cond_ V7.3.7.3	NA	NA	NA

Note:
1. The test was performed in Shielded Room No. 1.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. Tested Date: Jun. 17, 2016

4.2.3 Test Procedures

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.

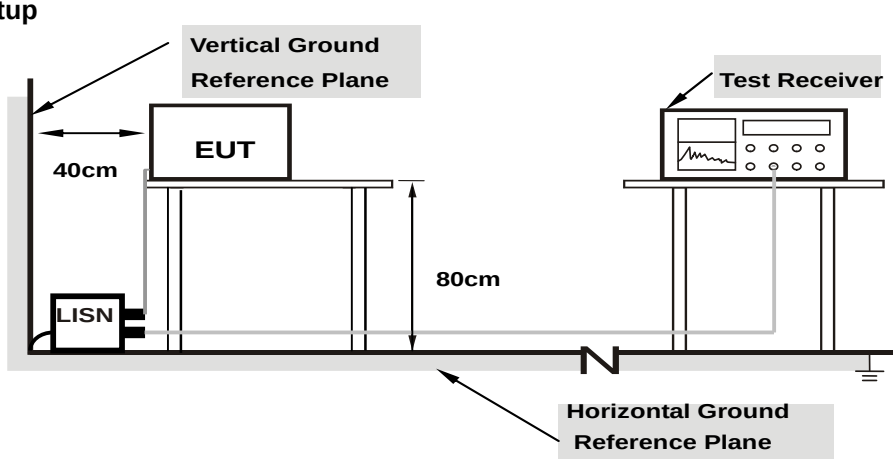
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

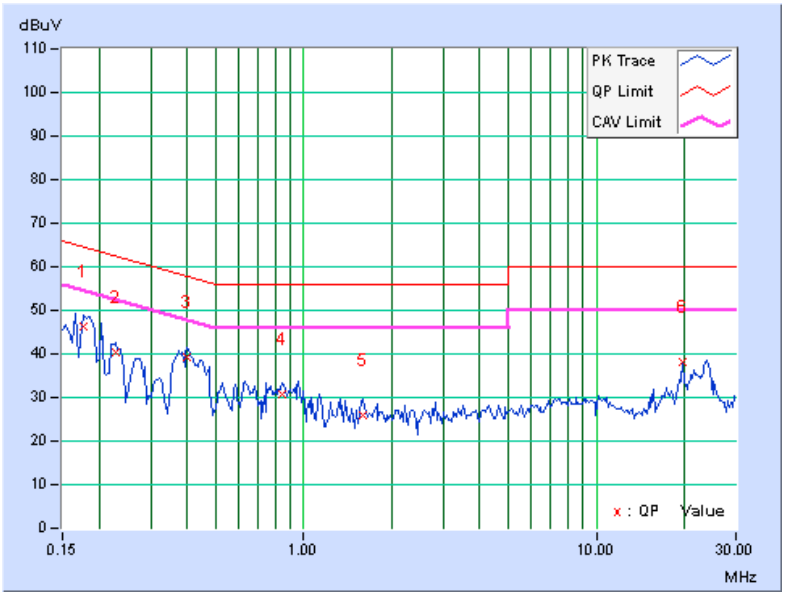
Radio 1 - 4TX CDD Mode

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

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17734	10.22	36.07	24.56	46.29	34.78	64.61	54.61	-18.32	-19.83
2	0.22812	10.22	29.97	21.62	40.19	31.84	62.52	52.52	-22.33	-20.68
3	0.40000	10.22	28.98	19.22	39.20	29.44	57.85	47.85	-18.65	-18.41
4	0.84531	10.25	20.51	10.56	30.76	20.81	56.00	46.00	-25.24	-25.19
5	1.60156	10.29	15.51	6.15	25.80	16.44	56.00	46.00	-30.20	-29.56
6	19.67012	11.33	26.72	24.60	38.05	35.93	60.00	50.00	-21.95	-14.07

Remarks:

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

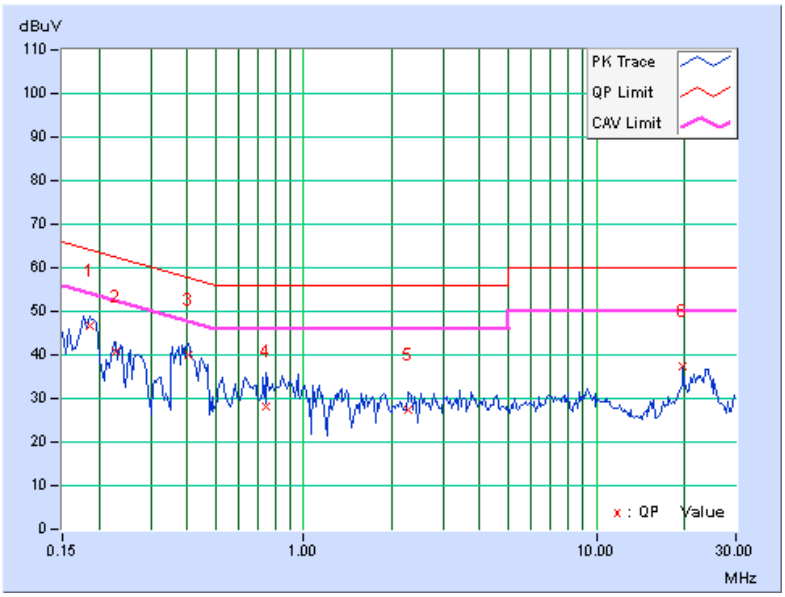


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18516	10.20	36.49	27.84	46.69	38.04	64.25	54.25	-17.56	-16.21
2	0.22812	10.21	30.48	22.50	40.69	32.71	62.52	52.52	-21.83	-19.81
3	0.40391	10.20	29.94	23.31	40.14	33.51	57.77	47.77	-17.63	-14.26
4	0.74766	10.22	17.76	4.25	27.98	14.47	56.00	46.00	-28.02	-31.53
5	2.28125	10.28	17.09	7.83	27.37	18.11	56.00	46.00	-28.63	-27.89
6	19.66797	11.10	26.22	23.84	37.32	34.94	60.00	50.00	-22.68	-15.06

Remarks:

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

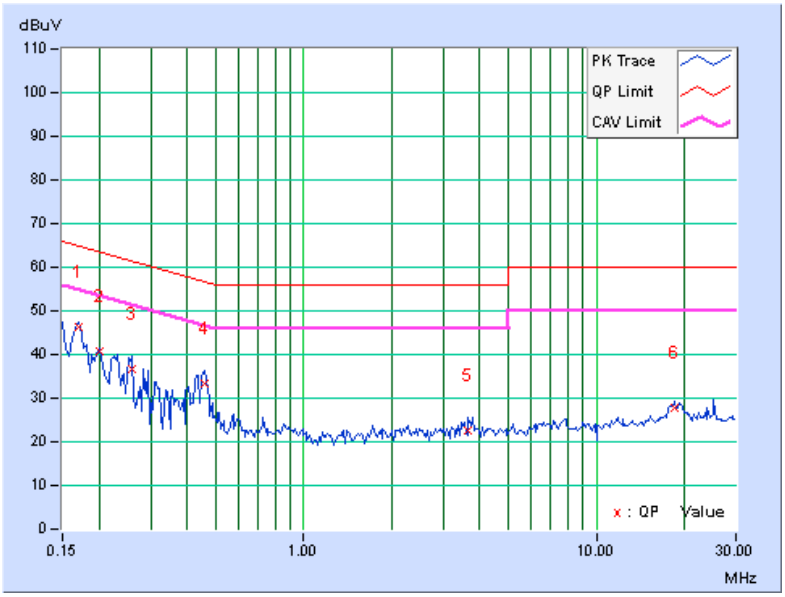


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	10.21	36.01	23.60	46.22	33.81	64.98	54.98	-18.76	-21.17
2	0.20078	10.22	30.54	20.30	40.76	30.52	63.58	53.58	-22.82	-23.06
3	0.25938	10.22	26.32	15.02	36.54	25.24	61.45	51.45	-24.91	-26.21
4	0.45859	10.22	23.29	17.15	33.51	27.37	56.72	46.72	-23.20	-19.34
5	3.66016	10.29	12.40	5.63	22.69	15.92	56.00	46.00	-33.31	-30.08
6	18.51953	11.27	16.61	8.96	27.88	20.23	60.00	50.00	-32.12	-29.77

Remarks:

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

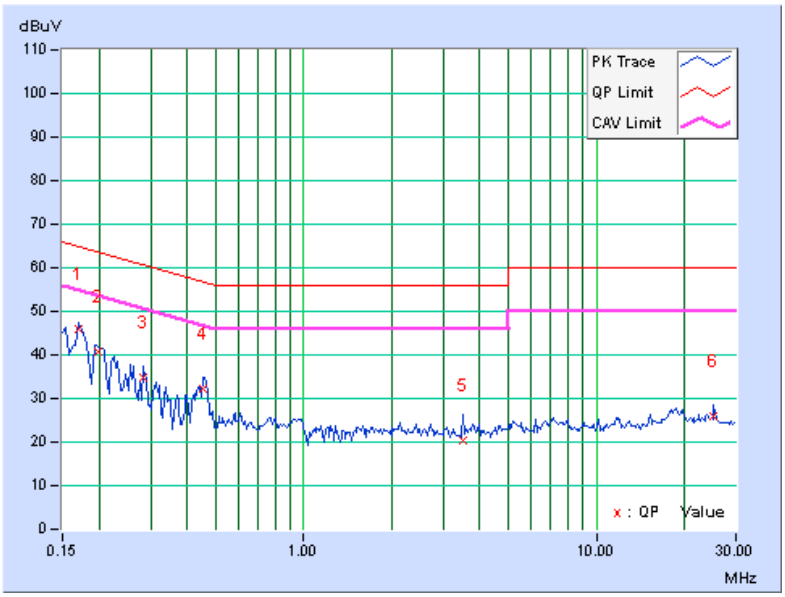


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16953	10.20	35.87	23.22	46.07	33.42	64.98	54.98	-18.92	-21.57
2	0.19819	10.21	30.37	19.10	40.58	29.31	63.69	53.69	-23.11	-24.38
3	0.28281	10.21	24.51	12.73	34.72	22.94	60.73	50.73	-26.02	-27.80
4	0.45078	10.20	22.01	13.58	32.21	23.78	56.86	46.86	-24.65	-23.08
5	3.49609	10.26	10.20	4.91	20.46	15.17	56.00	46.00	-35.54	-30.83
6	25.23047	11.13	14.83	13.86	25.96	24.99	60.00	50.00	-34.04	-25.01

Remarks:

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



Radio 2 - 4TX with Dipole antenna CDD Mode

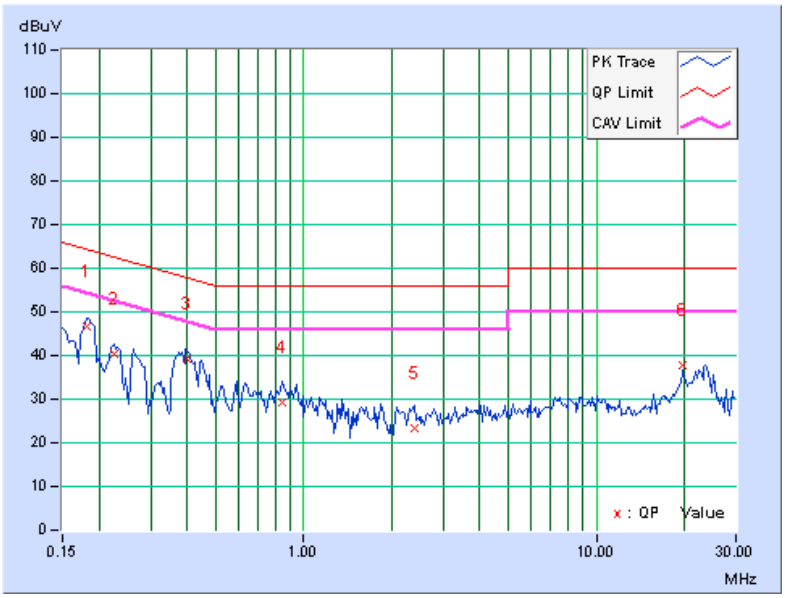
Worst-Case Data: 802.11a

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

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18125	10.22	36.31	27.90	46.53	38.12	64.43	54.43	-17.90	-16.31
2	0.22422	10.22	30.17	20.16	40.39	30.38	62.66	52.66	-22.27	-22.28
3	0.40034	10.22	29.12	19.30	39.34	29.52	57.85	47.85	-18.51	-18.33
4	0.84141	10.25	19.07	9.03	29.32	19.28	56.00	46.00	-26.68	-26.72
5	2.38281	10.31	12.98	4.21	23.29	14.52	56.00	46.00	-32.71	-31.48
6	19.67006	11.33	26.56	24.02	37.89	35.35	60.00	50.00	-22.11	-14.65

Remarks:

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

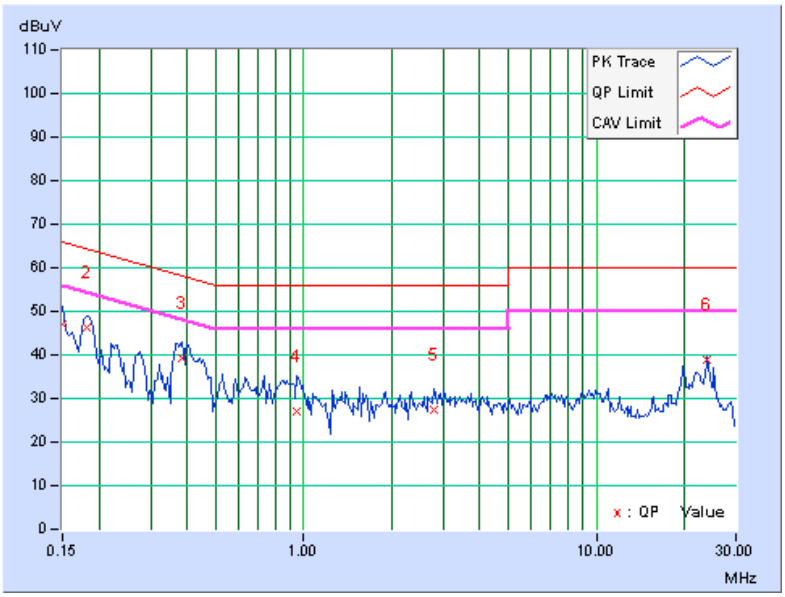


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.19	36.86	13.93	47.05	24.12	66.00	56.00	-18.95	-31.88
2	0.18125	10.20	36.23	28.25	46.43	38.45	64.43	54.43	-18.00	-15.98
3	0.38438	10.20	28.93	11.55	39.13	21.75	58.18	48.18	-19.05	-26.43
4	0.94688	10.24	16.91	7.85	27.15	18.09	56.00	46.00	-28.85	-27.91
5	2.79297	10.27	17.07	8.52	27.34	18.79	56.00	46.00	-28.66	-27.21
6	**24.00000**	**11.13**	**27.80**	**25.85**	**38.93**	**36.98**	**60.00**	**50.00**	**-21.07**	**-13.02**

Remarks:

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

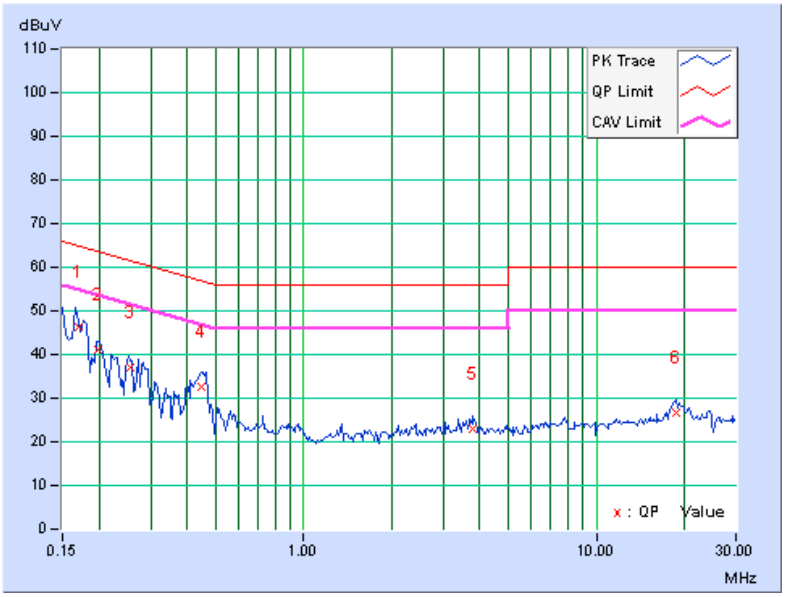


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17137	10.21	36.05	24.20	46.26	34.41	64.89	54.89	-18.63	-20.48
2	0.19853	10.22	30.80	20.76	41.02	30.98	63.67	53.67	-22.65	-22.69
3	0.25619	10.22	26.92	16.65	37.14	26.87	61.55	51.55	-24.41	-24.68
4	0.44688	10.22	22.33	13.58	32.55	23.80	56.93	46.93	-24.38	-23.13
5	3.80078	10.29	12.51	5.77	22.80	16.06	56.00	46.00	-33.20	-29.94
6	18.74219	11.28	15.55	8.63	26.83	19.91	60.00	50.00	-33.17	-30.09

Remarks:

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

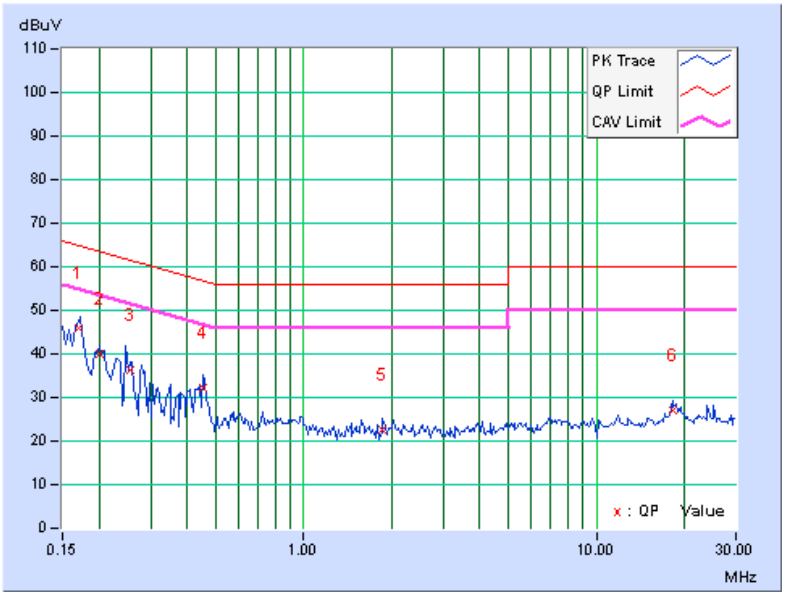


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16969	10.20	35.89	23.62	46.09	33.82	64.98	54.98	-18.89	-21.16
2	0.20078	10.21	29.95	18.92	40.16	29.13	63.58	53.58	-23.42	-24.45
3	0.25478	10.21	26.22	14.21	36.43	24.42	61.60	51.60	-25.17	-27.18
4	0.45078	10.20	21.91	13.54	32.11	23.74	56.86	46.86	-24.75	-23.12
5	1.86719	10.28	12.27	5.68	22.55	15.96	56.00	46.00	-33.45	-30.04
6	18.23828	11.04	15.95	8.41	26.99	19.45	60.00	50.00	-33.01	-30.55

Remarks:

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



4.3 Transmit Power Measurement

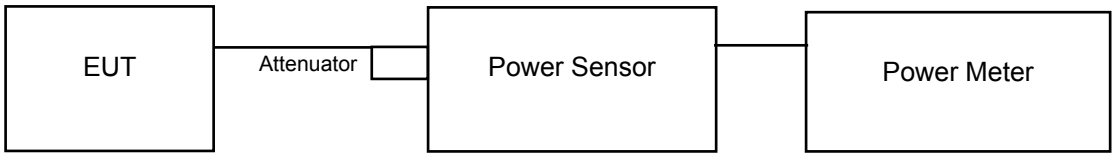
4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 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



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

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.

4.3.5 Deviation fromTest Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

Radio 1 - 4TX CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.96	17.47	17.50	17.26	227.809	23.58	30	Pass
40	5200	18.66	17.88	17.87	18.01	259.303	24.14	30	Pass
48	5240	18.75	17.93	18.08	17.90	263.005	24.20	30	Pass
149	5745	21.76	21.80	21.40	20.52	552.082	27.42	30	Pass
157	5785	21.72	21.77	21.42	20.49	549.528	27.40	30	Pass
165	5825	21.74	21.82	21.39	20.56	552.818	27.43	30	Pass

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.92	17.36	17.52	17.34	227.088	23.56	30	Pass
40	5200	18.61	17.90	17.91	17.93	258.160	24.12	30	Pass
48	5240	18.77	17.88	18.18	17.92	264.422	24.22	30	Pass
149	5745	21.77	21.86	21.35	20.49	552.178	27.42	30	Pass
157	5785	21.76	21.92	21.44	20.50	**557.083**	27.46	30	Pass
165	5825	21.77	21.90	21.40	20.52	555.954	27.45	30	Pass

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	13.37	13.12	12.88	12.65	80.056	19.03	30	Pass
46	5230	19.95	19.31	19.16	18.66	**340.030**	25.32	30	Pass
151	5755	21.15	20.67	21.04	20.81	494.559	26.94	30	Pass
159	5795	21.52	21.69	21.56	20.46	543.869	27.35	30	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	11.98	11.19	11.80	11.36	57.741	17.61	30	Pass
155	5775	18.77	18.34	18.35	18.29	279.414	24.46	30	Pass

Radio 1 - 4TX TxBF Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.92	17.36	17.52	17.34	227.088	23.56	24.29	Pass
40	5200	18.61	17.90	17.91	17.93	258.160	24.12	24.29	Pass
48	5240	18.77	17.88	18.18	17.92	**264.422**	24.22	24.29	Pass
149	5745	18.54	18.00	18.12	17.86	260.503	24.16	24.19	Pass
157	5785	18.44	18.06	18.10	17.92	260.305	24.15	24.19	Pass
165	5825	18.49	18.11	18.06	17.90	260.979	24.17	24.19	Pass

Note:
For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.71dBi > 6dBi , so the power limit shall be reduced to 30-(11.71-6) = 24.29dBm.
For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.81dBi > 6dBi , so the power limit shall be reduced to 30-(11.81-6) = 24.19dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	13.37	13.12	12.88	12.65	80.056	19.03	24.29	Pass
46	5230	18.66	18.10	17.90	17.56	256.692	24.09	24.29	Pass
151	5755	18.43	18.16	18.06	17.92	261.044	24.17	24.19	Pass
159	5795	18.52	18.07	18.11	17.86	**261.050**	24.17	24.19	Pass

Note:
For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.71dBi > 6dBi , so the power limit shall be reduced to 30-(11.71-6) = 24.29dBm.
For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.81dBi > 6dBi , so the power limit shall be reduced to 30-(11.81-6) = 24.19dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	11.98	11.19	11.80	11.36	57.741	17.61	24.29	Pass
155	5775	18.33	18.06	17.92	18.06	257.967	24.12	24.19	Pass

Note:
For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.71dBi > 6dBi , so the power limit shall be reduced to 30-(11.71-6) = 24.29dBm.
For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.81dBi > 6dBi , so the power limit shall be reduced to 30-(11.81-6) = 24.19dBm.

Radio 1 - 2TX CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	19.10	18.34	149.517	21.75	30	Pass
40	5200	20.20	19.78	199.773	23.01	30	Pass
48	5240	18.87	18.02	140.477	21.48	30	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 3				
149	5745	21.21	20.90	255.157	24.07	30	Pass
157	5785	21.16	20.86	252.516	24.02	30	Pass
165	5825	21.32	20.89	258.263	24.12	30	Pass

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.87	18.24	143.771	21.58	30	Pass
40	5200	20.32	20.00	207.647	23.17	30	Pass
48	5240	18.86	17.97	139.574	21.45	30	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 3				
149	5745	21.21	20.96	256.868	24.10	30	Pass
157	5785	21.15	21.06	257.961	24.12	30	Pass
165	5825	21.26	21.10	262.485	24.19	30	Pass

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	13.82	13.72	47.649	16.78	30	Pass
46	5230	21.00	20.59	**240.444**	23.81	30	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 3				
151	5755	21.44	21.02	**265.790**	24.25	30	Pass
159	5795	21.32	20.98	260.833	24.16	30	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	14.10	13.00	45.657	16.60	30	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 3				
155	5775	19.86	19.35	182.927	22.62	30	Pass

Radio 1 - 2TX TxBF Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	18.87	18.24	143.771	21.58	27.13	Pass
40	5200	20.32	20.00	207.647	23.17	27.13	Pass
48	5240	18.86	17.97	139.574	21.45	27.13	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 3				
149	5745	21.21	20.96	256.868	24.10	27.14	Pass
157	5785	21.15	21.06	257.961	24.12	27.14	Pass
165	5825	21.26	21.10	262.485	24.19	27.14	Pass

Note:

For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.87dBi > 6dBi , so the power limit shall be reduced to 30-(8.87-6) = 27.13dBm.

For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.86dBi > 6dBi , so the power limit shall be reduced to 30-(8.86-6) = 27.14dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	13.82	13.72	47.649	16.78	27.13	Pass
46	5230	21.00	20.59	**240.444**	23.81	27.13	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 3				
151	5755	21.44	21.02	**265.790**	24.25	27.14	Pass
159	5795	21.32	20.98	260.833	24.16	27.14	Pass

Note:

For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.87dBi > 6dBi , so the power limit shall be reduced to 30-(8.87-6) = 27.13dBm.

For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.86dBi > 6dBi , so the power limit shall be reduced to 30-(8.86-6) = 27.14dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	14.10	13.00	45.657	16.60	27.13	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 3				
155	5775	19.86	19.35	182.927	22.62	27.14	Pass

Note:
For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.87dBi > 6dBi , so the power limit shall be reduced to 30-(8.87-6) = 27.13dBm.
For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.86dBi > 6dBi , so the power limit shall be reduced to 30-(8.86-6) = 27.14dBm.

Radio 2 - 4TX CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	19.14	18.08	18.23	17.60	270.375	24.32	30	Pass
40	5200	19.15	18.10	18.20	17.77	272.699	24.36	30	Pass
48	5240	19.11	18.34	17.90	17.82	271.898	24.34	30	Pass
149	5745	21.71	21.98	21.34	20.60	556.972	27.46	30	Pass
157	5785	21.77	21.89	21.44	20.56	557.918	27.47	30	Pass
165	5825	21.02	21.92	21.42	20.77	540.146	27.33	30	Pass

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.85	16.96	16.66	16.44	201.013	23.03	30	Pass
40	5200	19.00	18.44	17.80	17.86	270.606	24.32	30	Pass
48	5240	19.17	18.37	17.86	17.92	274.349	24.38	30	Pass
149	5745	21.71	21.89	21.35	20.63	554.846	27.44	30	Pass
157	5785	21.86	21.85	21.56	20.49	561.734	27.50	30	Pass
165	5825	21.79	21.82	21.54	20.50	557.826	27.46	30	Pass

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	14.49	14.13	14.53	12.69	100.958	20.04	30	Pass
46	5230	20.61	19.42	20.48	18.76	**389.426**	25.90	30	Pass
151	5755	22.06	21.77	21.44	20.79	**570.274**	27.56	30	Pass
159	5795	21.92	21.90	21.44	20.59	564.346	27.52	30	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	12.54	11.93	11.88	10.80	60.983	17.85	30	Pass
155	5775	19.82	18.79	19.15	17.77	313.688	24.96	30	Pass

Radio 2 - 4TX TxBF Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.85	16.96	16.66	16.44	201.013	23.03	24.60	Pass
40	5200	19.00	18.44	17.80	17.86	270.606	24.32	24.60	Pass
48	5240	19.17	18.37	17.86	17.92	274.349	24.38	24.60	Pass
149	5745	18.54	18.43	18.16	17.34	260.777	24.16	24.30	Pass
157	5785	18.50	18.43	18.11	17.26	258.383	24.12	24.30	Pass
165	5825	18.62	18.44	18.15	17.32	261.865	24.18	24.30	Pass

Note:
For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.40dBi > 6dBi , so the power limit shall be reduced to 30-(11.40-6) = 24.60dBm.
For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.70dBi > 6dBi , so the power limit shall be reduced to 30-(11.70-6) = 24.30dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	14.49	14.13	14.53	12.69	100.958	20.04	24.60	Pass
46	5230	19.17	18.04	18.90	17.26	**277.120**	24.43	24.60	Pass
151	5755	18.52	18.44	18.17	17.35	260.884	24.16	24.30	Pass
159	5795	18.54	18.32	18.21	17.42	260.800	24.16	24.30	Pass

Note:
For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.40dBi > 6dBi , so the power limit shall be reduced to 30-(11.40-6) = 24.60dBm.
For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.70dBi > 6dBi , so the power limit shall be reduced to 30-(11.70-6) = 24.30dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	12.54	11.93	11.88	10.80	60.983	17.85	24.60	Pass
155	5775	19.13	18.01	18.35	16.92	**262.682**	24.19	24.30	Pass

Note:
For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.40dBi > 6dBi , so the power limit shall be reduced to 30-(11.40-6) = 24.60dBm.
For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.70dBi > 6dBi , so the power limit shall be reduced to 30-(11.70-6) = 24.30dBm.

Radio 2 - 2TX CDD Mode

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 2				
36	5180	18.26	18.11	131.702	21.20	30	Pass
40	5200	18.33	18.42	137.579	21.39	30	Pass
48	5240	18.42	18.34	137.736	21.39	30	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 3				
149	5745	20.64	19.60	207.079	23.16	30	Pass
157	5785	20.77	19.56	209.764	23.22	30	Pass
165	5825	20.68	19.66	209.420	23.21	30	Pass

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 2				
36	5180	18.05	17.87	125.061	20.97	30	Pass
40	5200	18.42	18.33	137.579	21.39	30	Pass
48	5240	18.39	18.26	136.012	21.34	30	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 3				
149	5745	20.59	19.66	207.021	23.16	30	Pass
157	5785	20.62	19.56	205.710	23.13	30	Pass
165	5825	20.62	19.54	205.295	23.12	30	Pass

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 2				
38	5190	16.47	16.71	91.242	19.60	30	Pass
46	5230	20.32	21.45	**247.284**	23.93	30	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 3				
151	5755	20.88	19.81	218.181	23.39	30	Pass
159	5795	20.96	19.86	**221.566**	23.46	30	Pass

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 2				
42	5210	12.14	12.45	33.947	15.31	30	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 3				
155	5775	19.43	18.28	154.998	21.90	30	Pass

Radio 2 - 2TX TxBF Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 2				
36	5180	18.05	17.87	125.061	20.97	27.40	Pass
40	5200	18.42	18.33	**137.579**	21.39	27.40	Pass
48	5240	18.39	18.26	136.012	21.34	27.40	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 3				
149	5745	20.59	19.66	207.021	23.16	27.15	Pass
157	5785	20.62	19.56	205.710	23.13	27.15	Pass
165	5825	20.62	19.54	205.295	23.12	27.15	Pass

Note:

For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.60dBi > 6dBi , so the power limit shall be reduced to 30-(8.60-6) = 27.40dBm.

For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.85dBi > 6dBi , so the power limit shall be reduced to 30-(8.85-6) = 27.15dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 2				
38	5190	16.47	16.71	91.242	19.60	27.40	Pass
46	5230	17.77	18.86	136.754	21.36	27.40	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 3				
151	5755	20.88	19.81	218.181	23.39	27.15	Pass
159	5795	20.96	19.86	**221.566**	23.46	27.15	Pass

Note:

For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.60dBi > 6dBi , so the power limit shall be reduced to 30-(8.60-6) = 27.40dBm.

For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.85dBi > 6dBi , so the power limit shall be reduced to 30-(8.85-6) = 27.15dBm.

802.11ac (VHT80)

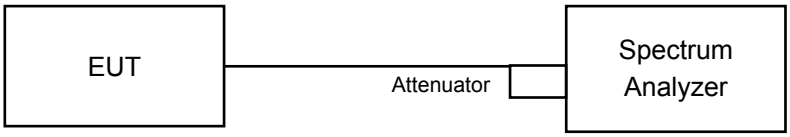
Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 2				
42	5210	12.14	12.45	33.947	15.31	27.40	Pass

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 1	Chain 3				
155	5775	19.43	18.28	154.998	21.90	27.15	Pass

Note:
For U-NII-1 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.60dBi > 6dBi , so the power limit shall be reduced to 30-(8.60-6) = 27.40dBm.
For U-NII-3 band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.85dBi > 6dBi , so the power limit shall be reduced to 30-(8.85-6) = 27.15dBm.

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 Result

Radio 1 - 4TX CDD Mode

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	17.64	17.40	17.40	17.28
40	5200	18.36	17.88	17.64	18.00
48	5240	18.00	17.64	17.64	17.64
149	5745	31.68	27.84	30.24	31.92
157	5785	33.24	28.44	32.04	33.36
165	5825	33.96	29.04	34.08	33.00

802.11ac (VHT20)

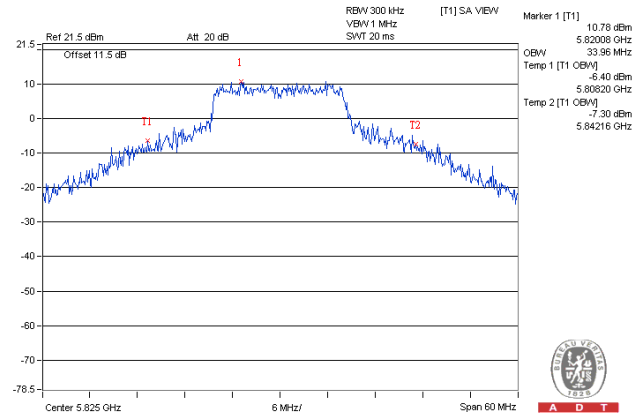
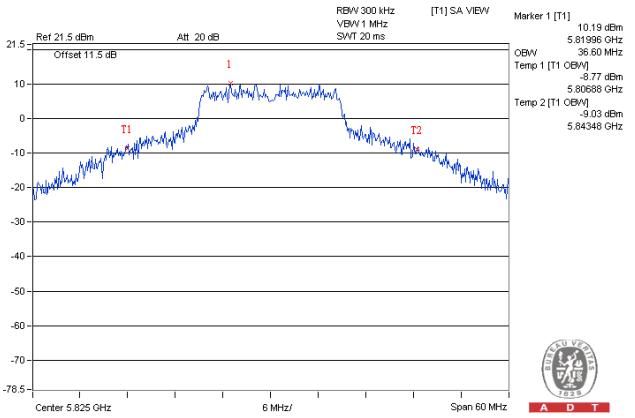
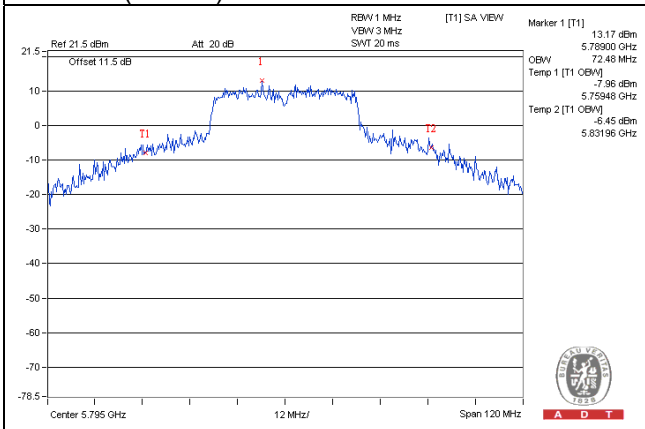
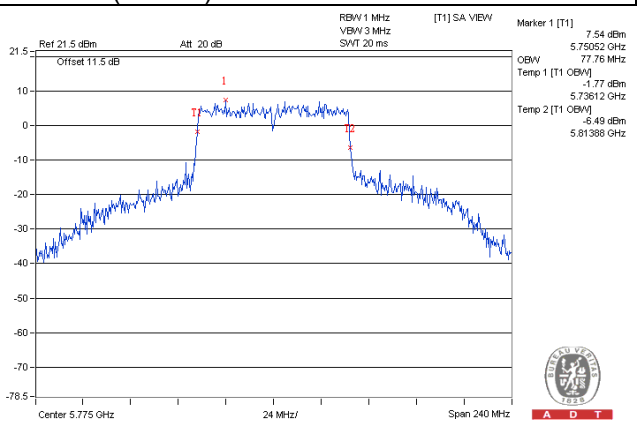
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.60	18.60	18.72	18.48
40	5200	18.72	18.72	18.60	18.60
48	5240	18.60	18.72	18.48	18.72
149	5745	30.00	29.40	31.44	33.00
157	5785	33.00	30.24	32.88	35.52
165	5825	33.96	31.20	36.60	35.52

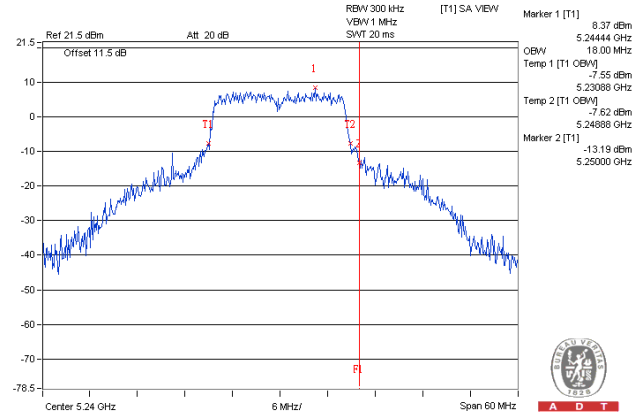
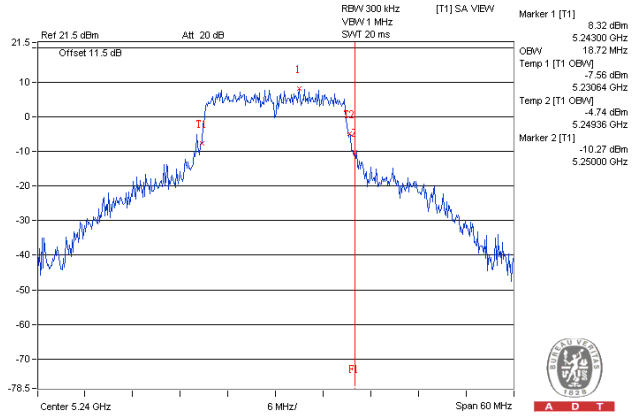
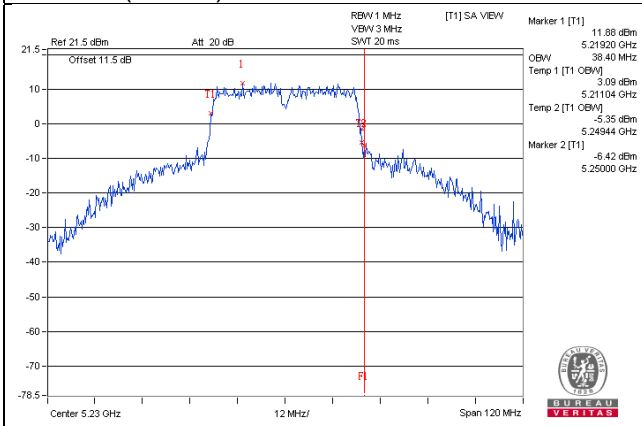
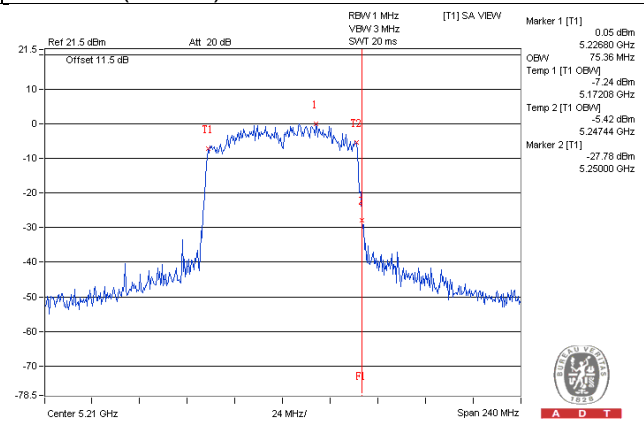
802.11ac (VHT40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	36.72	36.72	36.72	36.72
46	5230	38.40	38.16	37.92	38.16
151	5755	61.20	55.68	58.32	63.12
159	5795	70.80	64.08	72.48	72.00

802.11ac (VHT80)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	74.88	74.88	74.88	75.36
155	5775	77.76	76.80	76.80	77.28

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)	
802.11a / Chain 0 / CH 48	802.11ac (VHT20) / Chain 1 / CH 48
	
802.11ac (VHT40) / Chain 0 / CH 46	802.11ac (VHT80) / Chain 3 / CH 42
	

Radio 1 - 2TX CDD Mode

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.84	18.12
40	5200	24.72	24.36
48	5240	18.12	17.76

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 3
149	5745	26.88	28.20
157	5785	27.60	28.32
165	5825	29.40	28.92

802.11ac (VHT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.08	18.72
40	5200	26.40	26.28
48	5240	18.84	18.60

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 3
149	5745	29.28	29.52
157	5785	30.84	29.88
165	5825	31.68	30.60

802.11ac (VHT40)

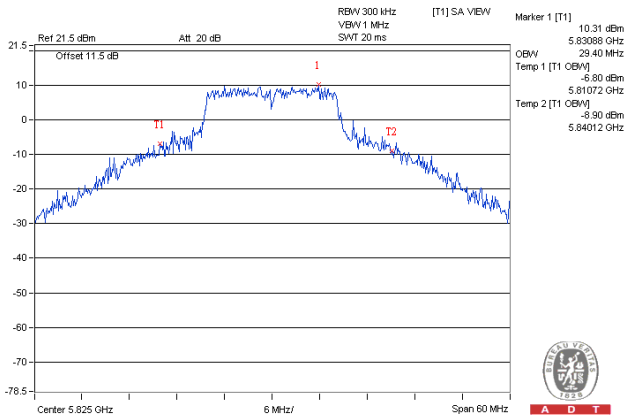
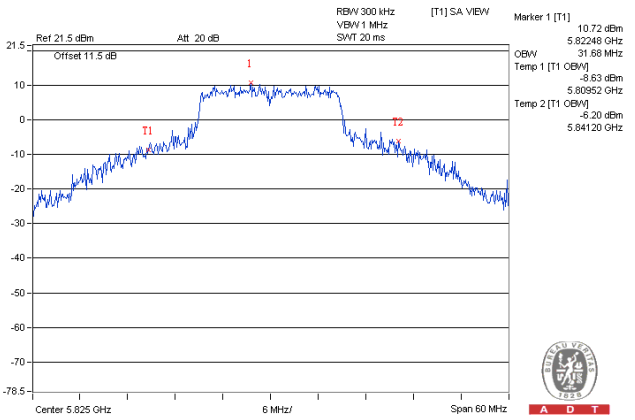
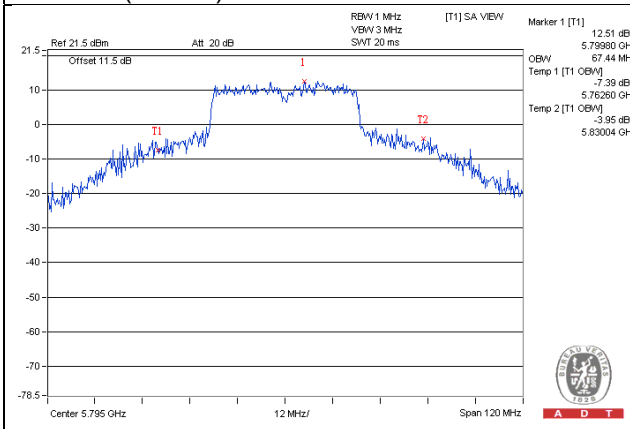
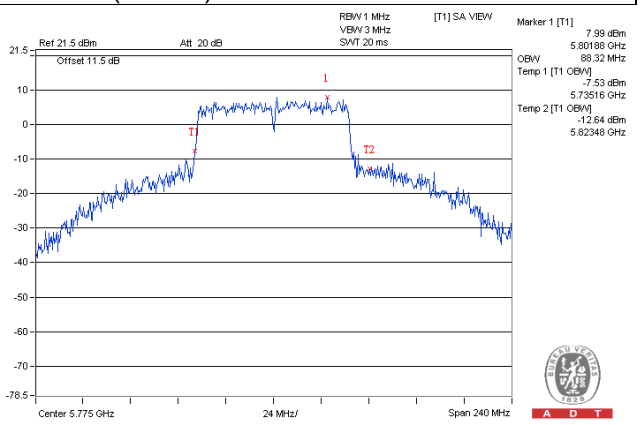
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.72	36.72
46	5230	37.68	37.44

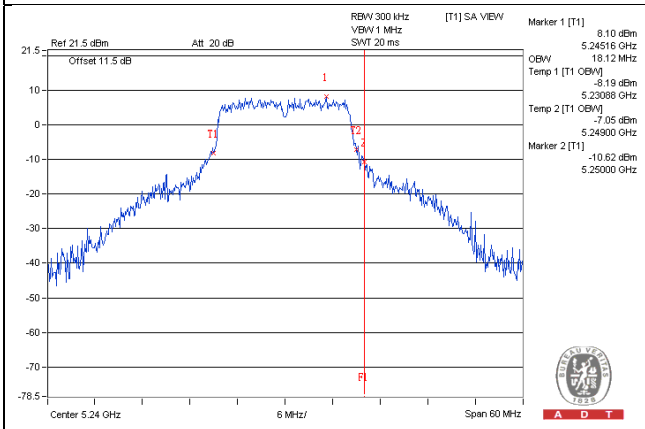
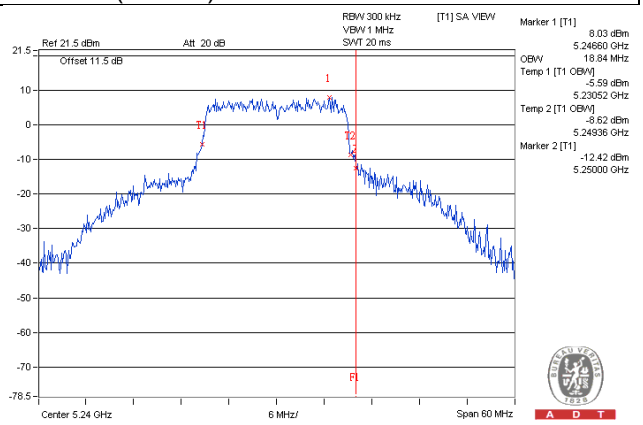
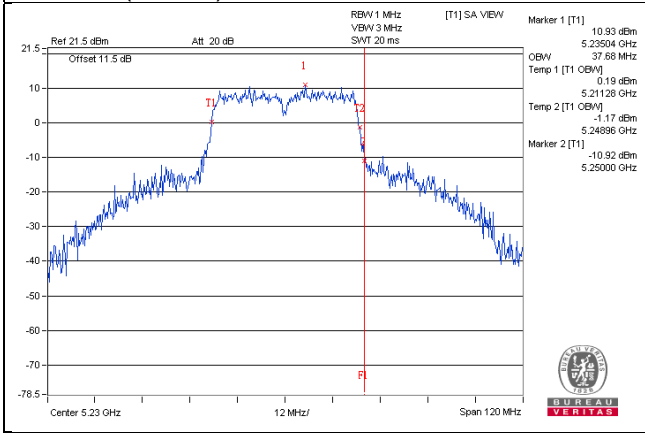
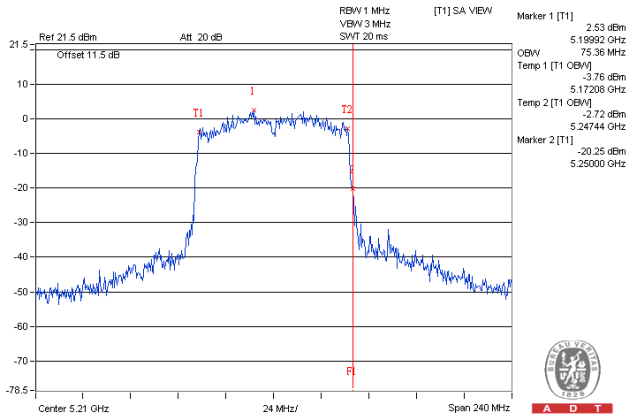
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 3
151	5755	60.72	62.64
159	5795	67.44	63.12

802.11ac (VHT80)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	74.88	75.36

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 3
155	5775	88.32	77.76

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)	
802.11a / Chain 0 / CH 48	802.11ac (VHT20) / Chain 0 / CH 48
	
802.11ac (VHT40) / Chain 0 / CH 46	802.11ac (VHT80) / Chain 1 / CH 42
	

Radio 2 - 4TX CDD Mode

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.00	17.28	17.16	17.16
40	5200	18.00	17.28	17.04	16.92
48	5240	17.88	17.40	17.40	16.92
149	5745	29.04	32.28	34.68	27.84
157	5785	30.12	33.36	35.28	29.16
165	5825	32.52	34.56	36.12	30.36

802.11ac (VHT20)

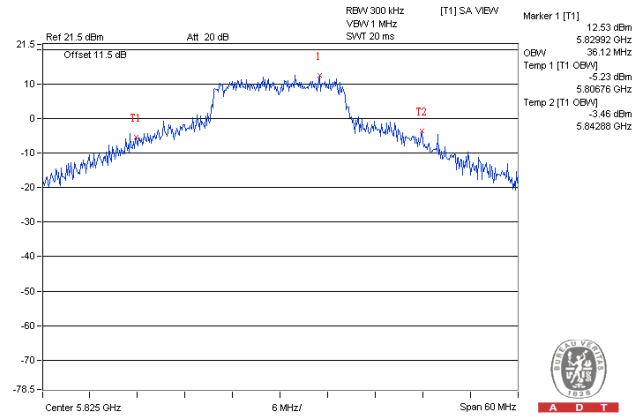
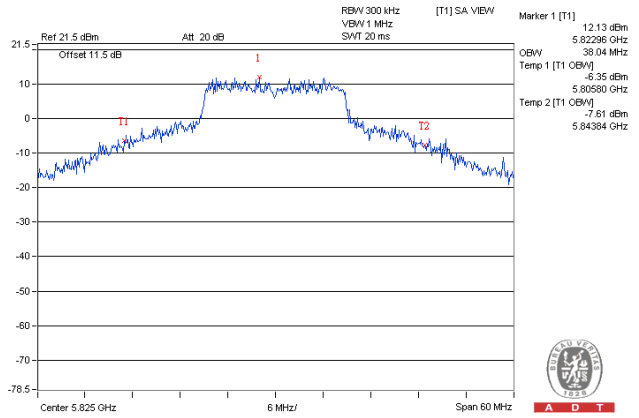
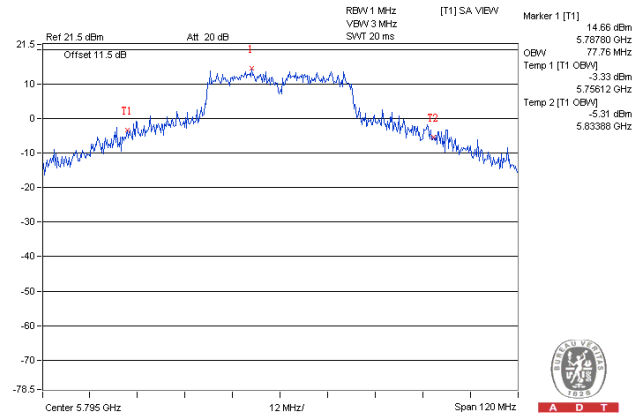
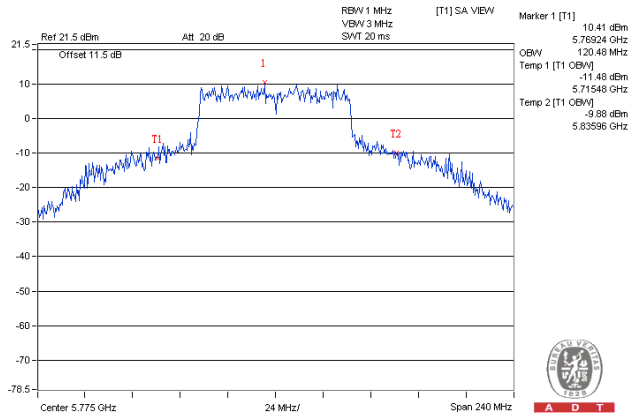
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.84	18.48	18.24	18.12
40	5200	18.72	18.36	18.00	18.12
48	5240	18.84	18.48	18.00	18.00
149	5745	30.24	33.72	36.00	29.04
157	5785	32.28	35.64	37.08	30.00
165	5825	33.60	36.12	38.04	32.04

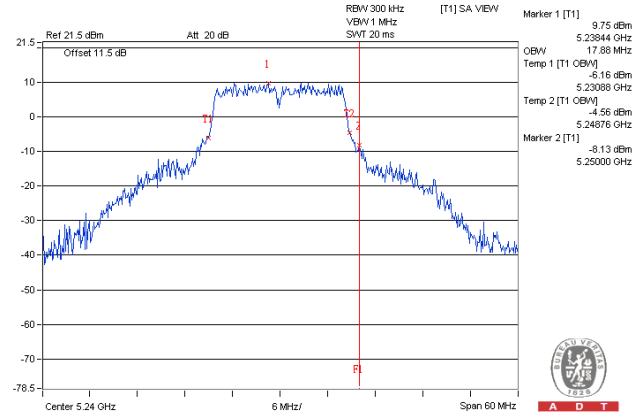
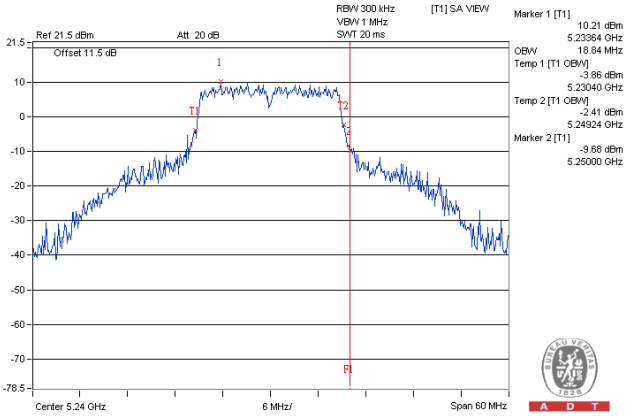
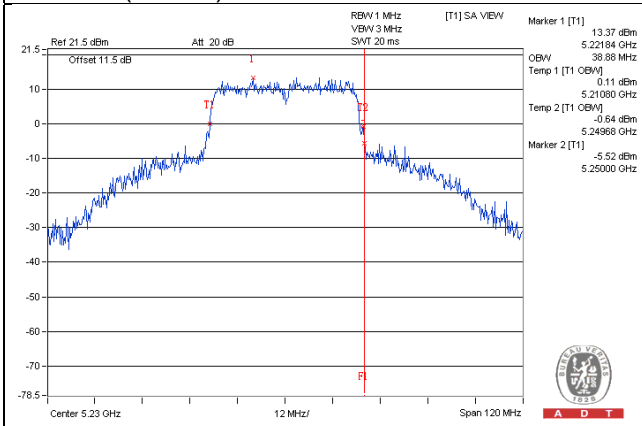
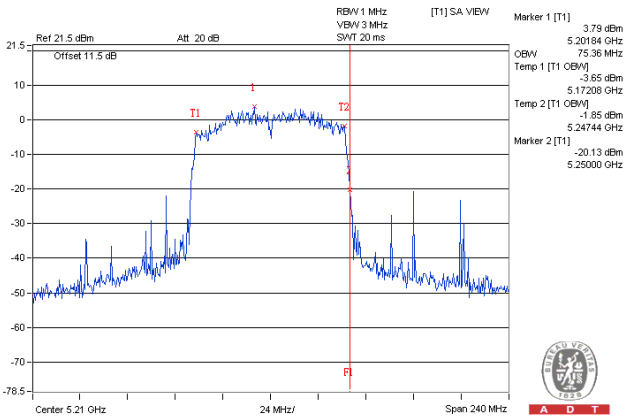
802.11ac (VHT40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	36.72	36.72	36.72	36.72
46	5230	38.88	37.20	37.20	36.72
151	5755	75.12	74.16	77.52	65.28
159	5795	77.76	73.92	76.80	66.72

802.11ac (VHT80)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	75.36	75.36	75.36	74.88
155	5775	96.48	120.48	110.40	78.24

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)	
802.11a / Chain 0 / CH 48	802.11ac (VHT20) / Chain 0 / CH 48
	
802.11ac (VHT40) / Chain 0 / CH 46	802.11ac (VHT80) / Chain 0 / CH 42
	

Radio 2 - 2TX CDD Mode

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 1	Chain 2
36	5180	17.04	16.92
40	5200	16.92	16.92
48	5240	17.16	16.92

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 1	Chain 3
149	5745	18.24	17.76
157	5785	18.72	18.24
165	5825	21.36	19.08

802.11ac (VHT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 1	Chain 2
36	5180	18.12	18.12
40	5200	18.12	18.12
48	5240	18.12	18.00

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 1	Chain 3
149	5745	19.44	18.60
157	5785	20.04	18.72
165	5825	21.84	19.80

802.11ac (VHT40)

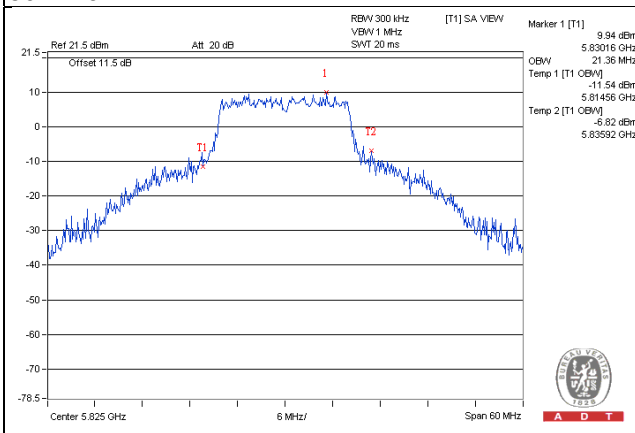
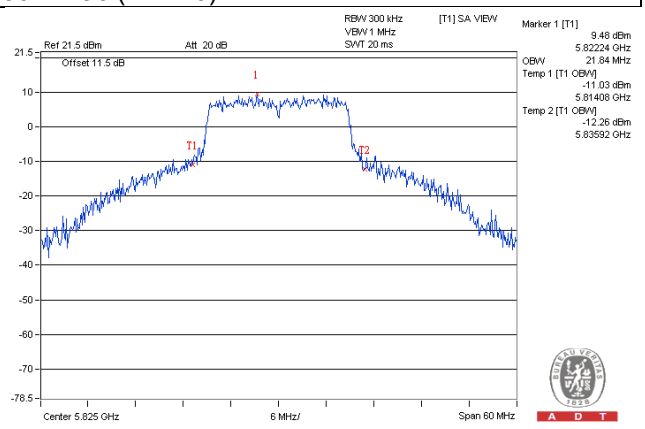
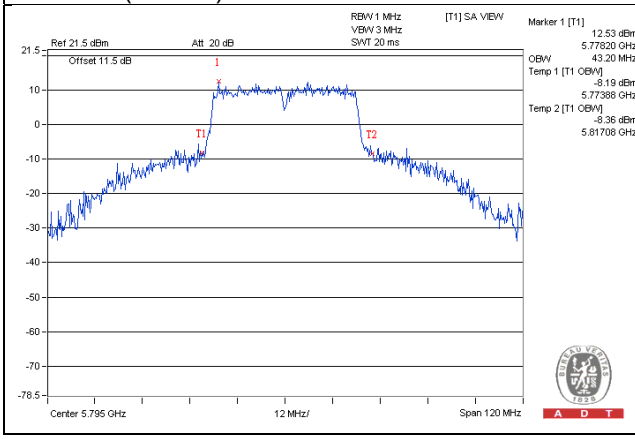
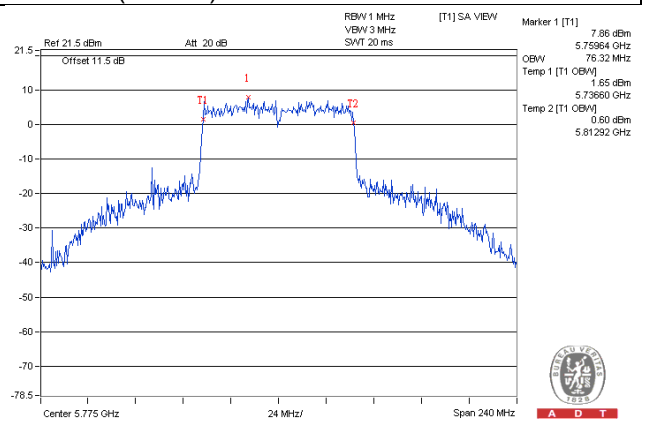
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 1	Chain 2
38	5190	36.72	36.72
46	5230	36.96	37.68

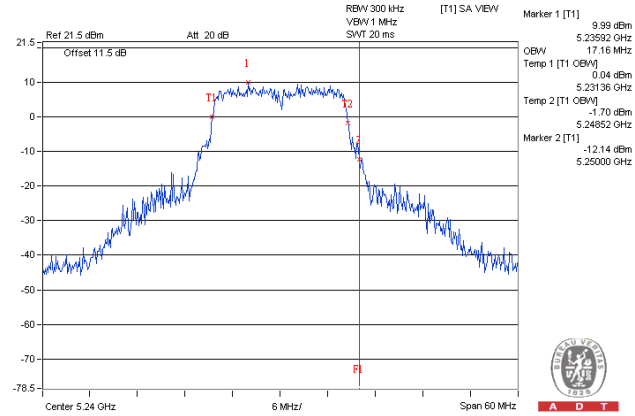
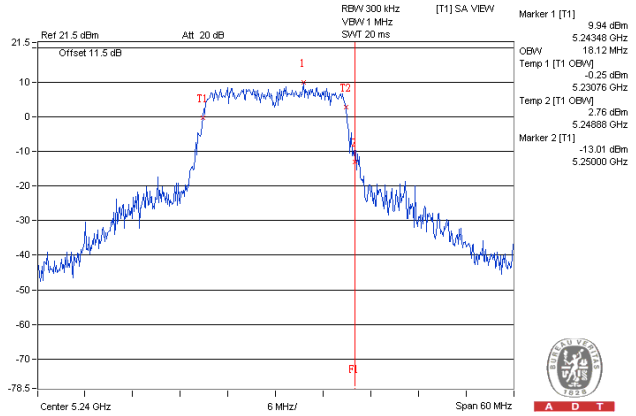
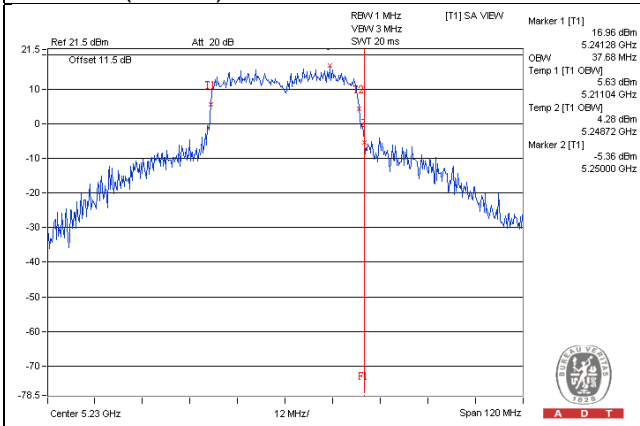
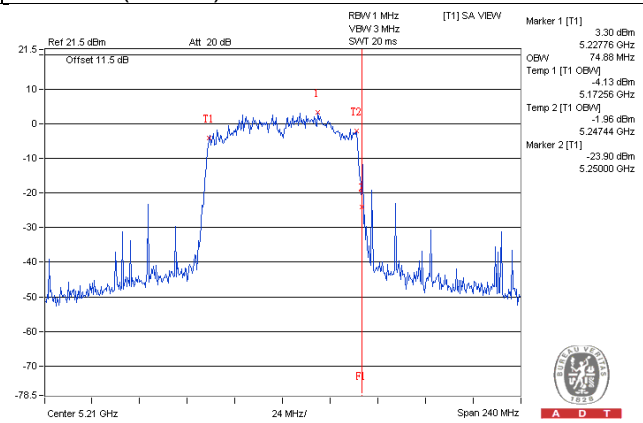
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 1	Chain 3
151	5755	39.36	38.16
159	5795	43.20	38.64

802.11ac (VHT80)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 1	Chain 2
42	5210	74.88	74.88

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 1	Chain 3
155	5775	76.32	76.32

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

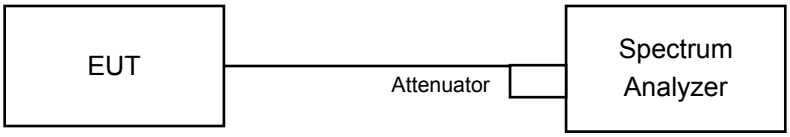
Spectrum Plot for near by DFS band (DFS is required, if 99% OCP straddle into U-NII-2A band)	
802.11a / Chain 1 / CH 48	802.11ac (VHT20) / Chain 1 / CH 48
	
802.11ac (VHT40) / Chain 2 / CH 46	802.11ac (VHT80) / Chain 1 / CH 42
	

4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

For U-NII-1 band:

Using method SA-1, Duty cycle >98%:

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Sweep time = auto, trigger set to “free run”.
d. Trace average at least 100 traces in power averaging mode.
e. Record the max value

Using method SA-2, Duty cycle <98%

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

For U-NII-3 band:

Duty cycle >98%

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
d. 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)
e. Sweep time = auto, trigger set to “free run”.
f. Trace average at least 100 traces in power averaging mode.
g. Record the max value

Duty cycle <98%

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
d. 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)
e. Sweep time = auto, trigger set to “free run”.
f. Trace average at least 100 traces in power averaging mode.
g. 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 Conditions

Same as Item 4.3.6.

4.5.7 Test Results

For U-NII-1 Band

Radio 1 - 4TX CDD Mode

802.11a

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	2.77	2.94	1.74	1.95	8.40	11.29	Pass
40	5200	5.63	4.84	4.76	4.73	11.03	11.29	Pass
48	5240	5.68	5.02	4.91	5.07	11.20	11.29	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.71dBi > 6dBi , so the power density limit shall be reduced to 17-(11.71-6) = 11.29dBm.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	3.09	2.64	1.60	1.78	8.34	11.29	Pass
40	5200	5.38	4.68	4.80	4.68	10.92	11.29	Pass
48	5240	5.48	4.76	4.71	4.75	10.96	11.29	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.71dBi > 6dBi , so the power density limit shall be reduced to 17-(11.71-6) = 11.29dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	-4.35	-4.36	-6.14	-5.91	0.91	11.29	Pass
46	5230	2.47	1.98	0.59	0.48	7.49	11.29	Pass

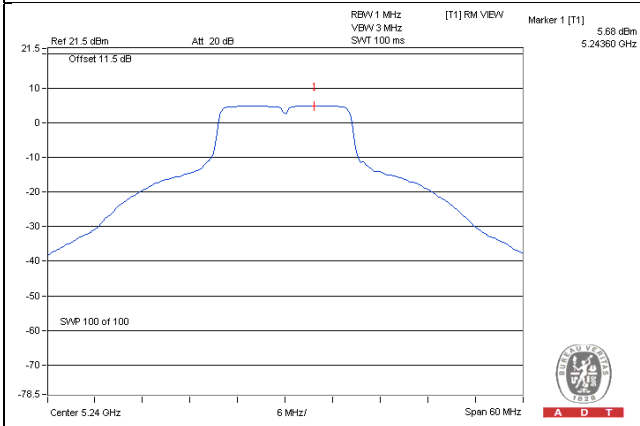
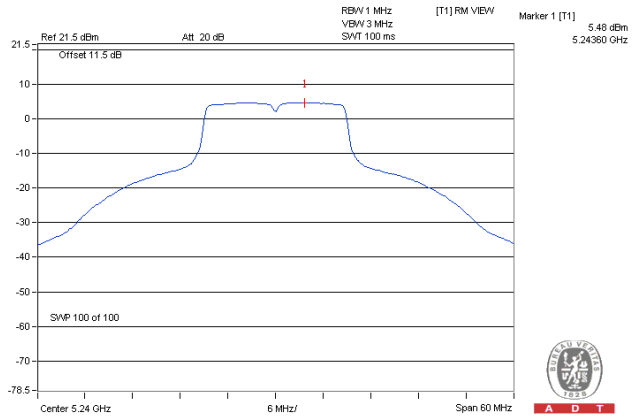
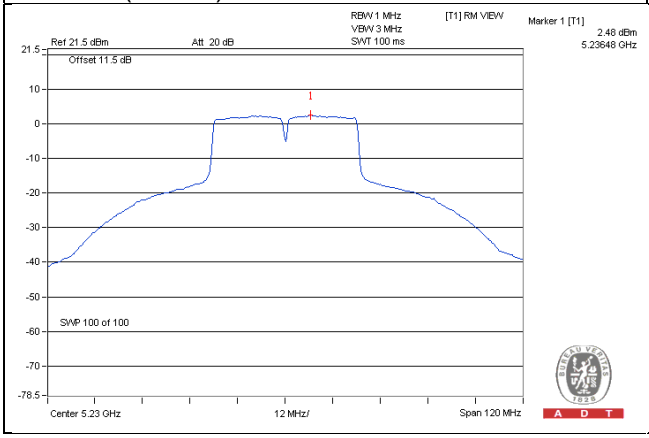
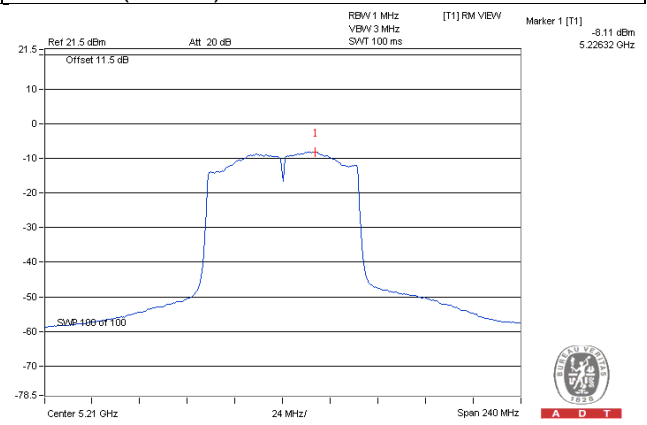
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.71dBi > 6dBi , so the power density limit shall be reduced to 17-(11.71-6) = 11.29dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD w/o duty factor (dBm)	Duty factor	Total PSD with duty factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3					
42	5210	-8.13	-8.56	-9.06	-9.21	-2.70	0.18	-2.52	11.29	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20}$)^2/4]= 11.71dBi > 6dBi , so the power density limit shall be reduced to 17-(11.71-6) = 11.29dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 0 / CH 48	802.11ac (VHT20) / Chain 0 / CH 48
	
802.11ac (VHT40)/ Chain 0 / CH 46	802.11ac (VHT80) / Chain 0 / CH 42
	

Radio 1 - 2TX CDD Mode

802.11a

Chan.	Freq. (MHz)	PSD (dBm)		Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1			
36	5180	4.23	3.52	6.90	14.13	Pass
40	5200	5.93	5.86	8.91	14.13	Pass
48	5240	4.02	3.55	6.80	14.13	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.87dBi > 6dBi , so the power density limit shall be reduced to 17-(8.87-6) = 14.13dBm.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD (dBm)		Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1			
36	5180	3.45	3.06	6.27	14.13	Pass
40	5200	5.65	5.71	8.69	14.13	Pass
48	5240	3.77	3.15	6.48	14.13	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.87dBi > 6dBi , so the power density limit shall be reduced to 17-(8.87-6) = 14.13dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD (dBm)		Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1			
38	5190	-4.70	-4.42	-1.55	14.13	Pass
46	5230	2.75	2.65	5.71	14.13	Pass

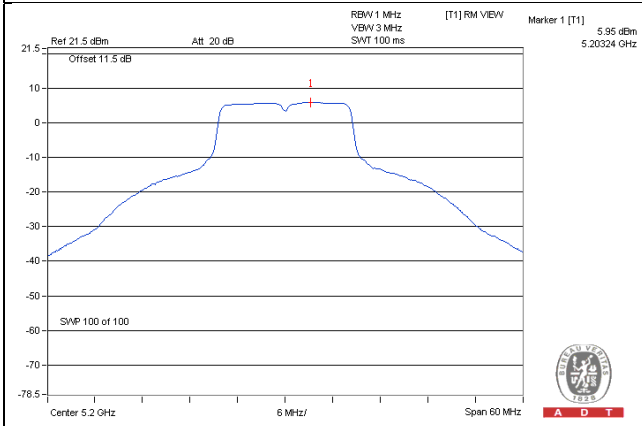
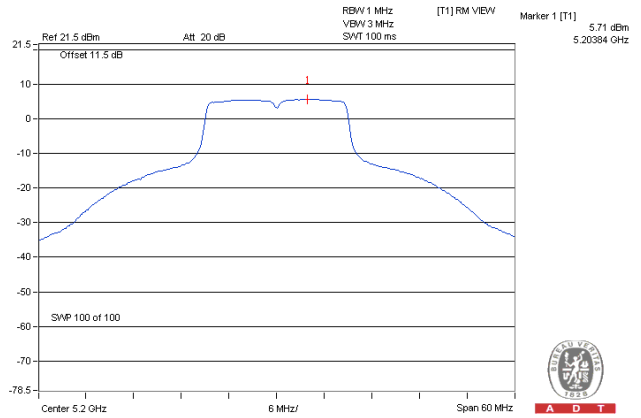
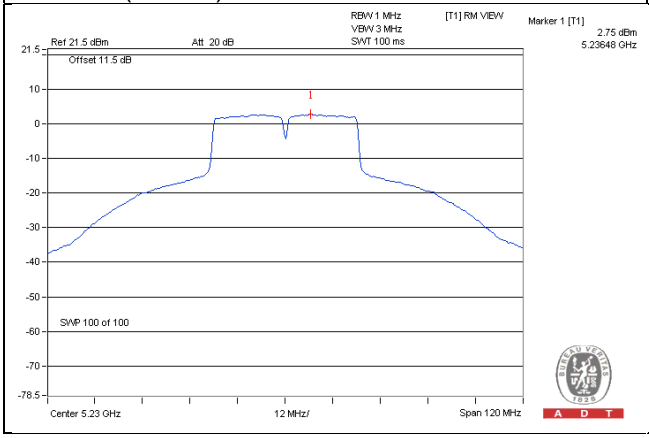
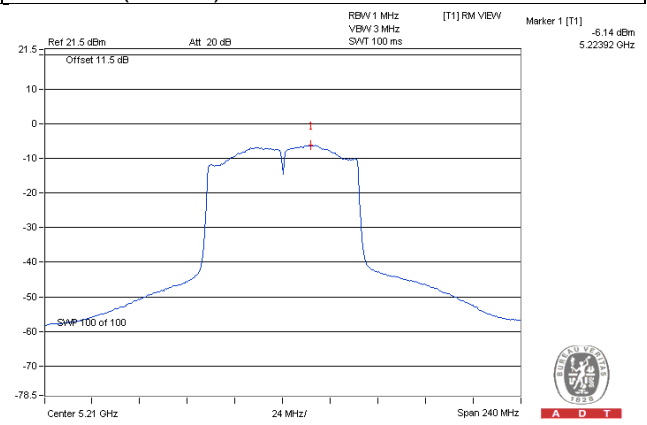
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.87dBi > 6dBi , so the power density limit shall be reduced to 17-(8.87-6) = 14.13dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD (dBm)		Total PSD w/o duty factor (dBm)	Duty factor	Total PSD with duty factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1					
42	5210	-6.14	-6.81	-3.46	0.18	-3.28	14.13	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20}$)^2/2]= 8.87dBi > 6dBi , so the power density limit shall be reduced to 17-(8.87-6) = 14.13dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 0 / CH 40	802.11ac (VHT20) / Chain 1 / CH 40
	
802.11ac (VHT40)/ Chain 0 / CH 46	802.11ac (VHT80) / Chain 0 / CH 42
	

Radio 2 - 4TX CDD Mode

802.11a

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	5.32	4.65	4.48	4.36	10.74	11.60	Pass
40	5200	6.12	5.25	5.11	4.85	11.38	11.60	Pass
48	5240	5.81	5.31	6.00	4.90	11.55	11.60	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.40dBi > 6dBi , so the power density limit shall be reduced to 17-(11.40-6) = 11.60dBm.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	5.35	4.80	6.46	4.10	11.29	11.60	Pass
40	5200	5.80	5.12	5.01	4.48	11.15	11.60	Pass
48	5240	5.58	4.96	4.93	4.29	10.98	11.60	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.40dBi > 6dBi , so the power density limit shall be reduced to 17-(11.40-6) = 11.60dBm.

802.11ac (VHT40)

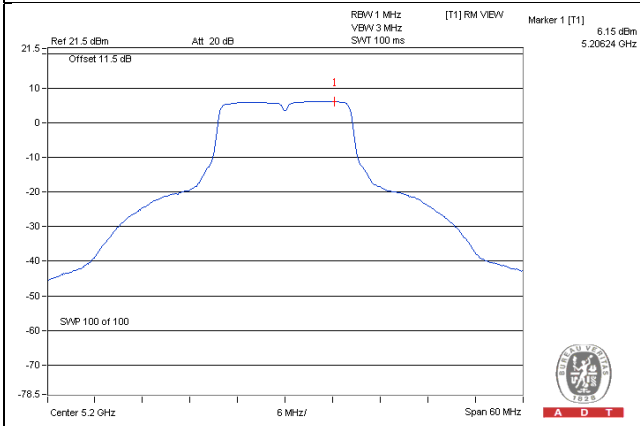
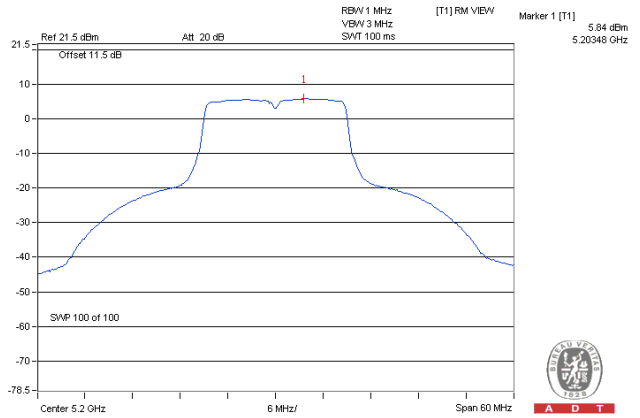
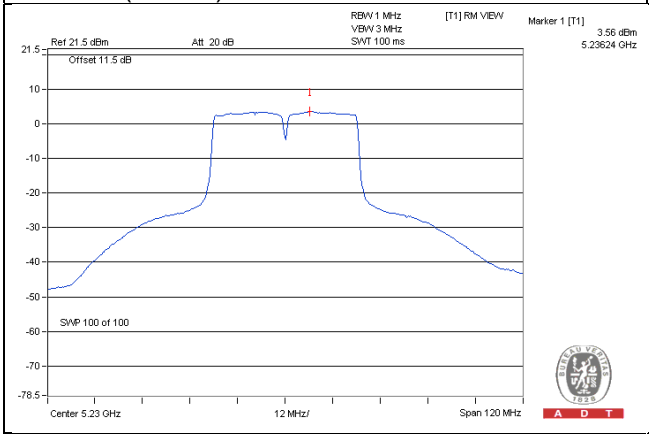
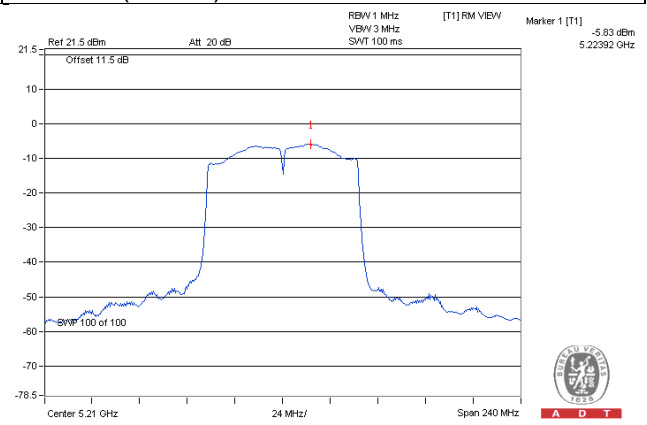
Chan.	Freq. (MHz)	PSD (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	-1.78	-2.29	-2.14	-3.36	3.67	11.60	Pass
46	5230	3.34	1.88	3.53	1.54	8.68	11.60	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.40dBi > 6dBi , so the power density limit shall be reduced to 17-(11.40-6) = 11.60dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD (dBm)				Total PSD w/o duty factor (dBm)	Duty factor	Total PSD with duty factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3					
42	5210	-5.94	-7.28	-6.62	-7.41	-0.76	0.18	-0.58	11.60	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20}$)^2/4]= 11.40dBi > 6dBi , so the power density limit shall be reduced to 17-(11.40-6) = 11.60dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 0 / CH 40	802.11ac (VHT20) / Chain 0 / CH 40
	
802.11ac (VHT40)/ Chain 2 / CH 46	802.11ac (VHT80) / Chain 0 / CH 42
	

Radio 2 - 2TX CDD Mode

802.11a

Chan.	Freq. (MHz)	PSD (dBm)		Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 1	Chain 2			
36	5180	5.15	5.15	8.16	14.40	Pass
40	5200	5.01	5.52	8.28	14.40	Pass
48	5240	5.07	5.35	8.22	14.40	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.60dBi > 6dBi , so the power density limit shall be reduced to 17-(8.60-6) = 14.40dBm.

802.11ac (VHT20)

Chan.	Freq. (MHz)	PSD (dBm)		Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 1	Chain 2			
36	5180	4.19	4.61	7.42	14.40	Pass
40	5200	4.94	5.13	8.05	14.40	Pass
48	5240	4.86	5.14	8.01	14.40	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.60dBi > 6dBi , so the power density limit shall be reduced to 17-(8.60-6) = 14.40dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	PSD (dBm)		Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 1	Chain 2			
38	5190	-0.05	0.96	3.49	14.40	Pass
46	5230	3.81	5.52	7.76	14.40	Pass

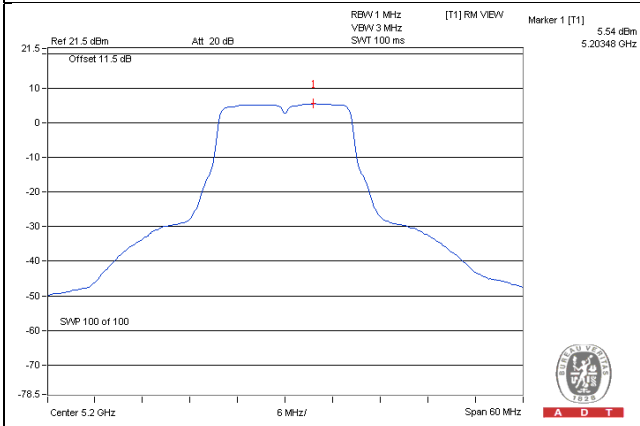
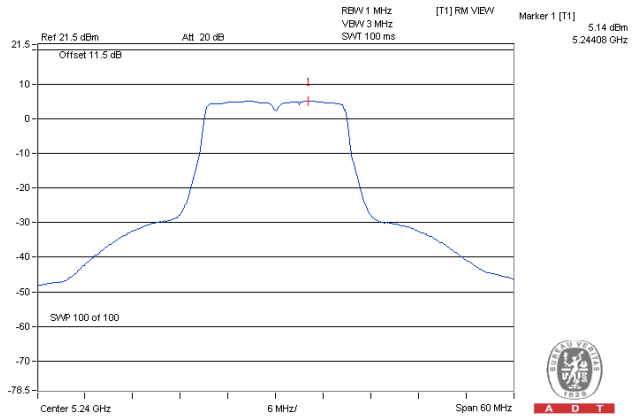
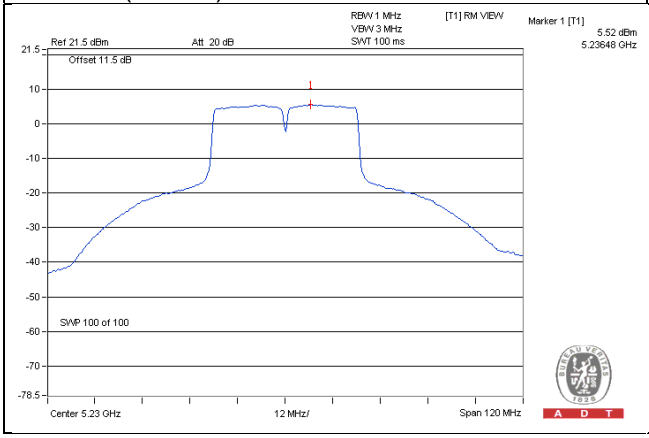
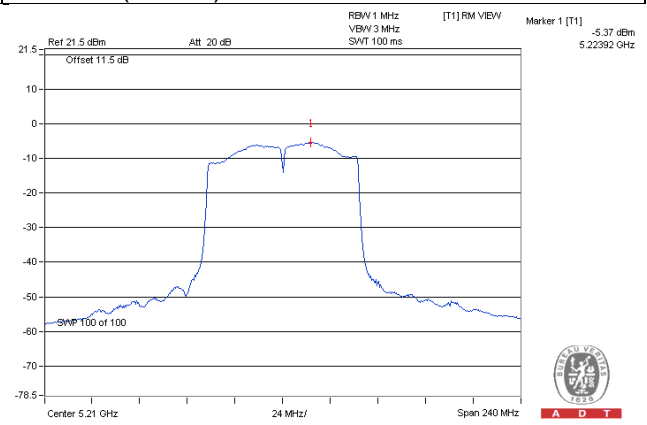
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/2$]= 8.60dBi > 6dBi , so the power density limit shall be reduced to 17-(8.60-6) = 14.40dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD (dBm)		Total PSD w/o duty factor (dBm)	Duty factor	Total PSD with duty factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 1	Chain 2					
42	5210	-6.43	-5.37	-2.86	0.18	-2.68	14.40	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20}$)^2/2]= 8.60dBi > 6dBi , so the power density limit shall be reduced to 17-(8.60-6) = 14.40dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 2 / CH 40	802.11ac (VHT20) / Chain 2 / CH 48
	
802.11ac (VHT40)/ Chain 2 / CH 46	802.11ac (VHT80) / Chain 2 / CH 42
	

For U-NII-3 Band

Radio 1 - 4TX CDD Mode

802.11a

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=4) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	149	5745	-1.23	0.99	6.02	7.01	24.19	Pass
	157	5785	-1.25	0.97	6.02	6.99	24.19	Pass
	165	5825	-0.96	1.26	6.02	7.28	24.19	Pass
1	149	5745	-1.60	0.62	6.02	6.64	24.19	Pass
	157	5785	-1.69	0.53	6.02	6.55	24.19	Pass
	165	5825	-1.58	0.64	6.02	6.66	24.19	Pass
2	149	5745	-2.85	-0.63	6.02	5.39	24.19	Pass
	157	5785	-2.63	-0.41	6.02	5.61	24.19	Pass
	165	5825	-2.28	-0.06	6.02	5.96	24.19	Pass
3	149	5745	-2.81	-0.59	6.02	5.43	24.19	Pass
	157	5785	-2.72	-0.50	6.02	5.52	24.19	Pass
	165	5825	-2.97	-0.75	6.02	5.27	24.19	Pass

Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.81dBi > 6dBi , so the power density limit shall be reduced to 30-(11.81-6) = 24.19dBm.

802.11ac (VHT20)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=4) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	149	5745	-1.90	0.32	6.02	6.34	24.19	Pass
	157	5785	-1.36	0.86	6.02	6.88	24.19	Pass
	165	5825	-1.35	0.87	6.02	6.89	24.19	Pass
1	149	5745	-2.16	0.06	6.02	6.08	24.19	Pass
	157	5785	-2.07	0.15	6.02	6.17	24.19	Pass
	165	5825	-1.99	0.23	6.02	6.25	24.19	Pass
2	149	5745	-3.32	-1.10	6.02	4.92	24.19	Pass
	157	5785	-3.08	-0.86	6.02	5.16	24.19	Pass
	165	5825	-2.51	-0.29	6.02	5.73	24.19	Pass
3	149	5745	-3.09	-0.87	6.02	5.15	24.19	Pass
	157	5785	-3.24	-1.02	6.02	5.00	24.19	Pass
	165	5825	-3.12	-0.90	6.02	5.12	24.19	Pass

Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2/4$]= 11.81dBi > 6dBi , so the power density limit shall be reduced to 30-(11.81-6) = 24.19dBm.

802.11ac (VHT40)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=4) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	151	5755	-5.28	-3.06	6.02	2.96	24.19	Pass
	159	5795	-4.56	-2.34	6.02	3.68	24.19	Pass
1	151	5755	-5.85	-3.63	6.02	2.39	24.19	Pass
	159	5795	-5.25	-3.03	6.02	2.99	24.19	Pass
2	151	5755	-7.07	-4.85	6.02	1.17	24.19	Pass
	159	5795	-6.16	-3.94	6.02	2.08	24.19	Pass
3	151	5755	-7.08	-4.86	6.02	1.16	24.19	Pass
	159	5795	-6.66	-4.44	6.02	1.58	24.19	Pass

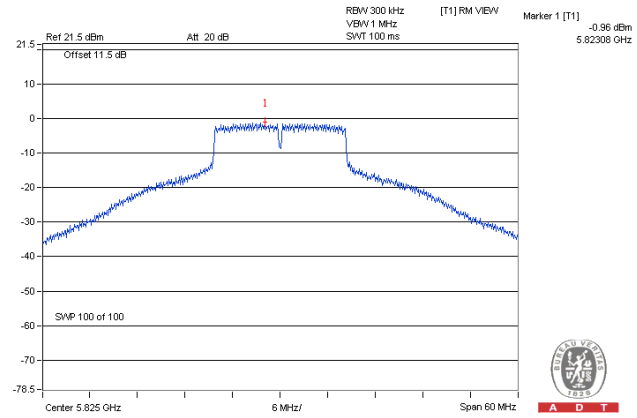
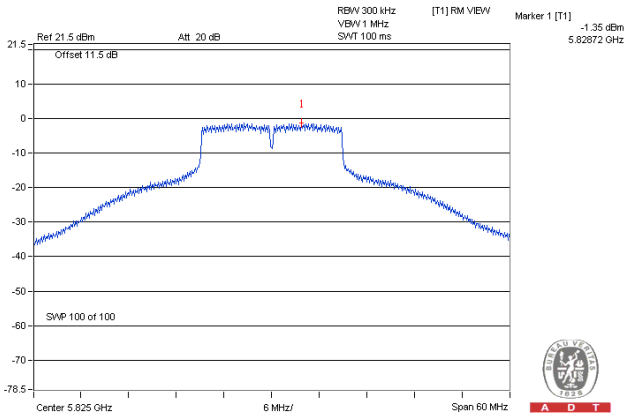
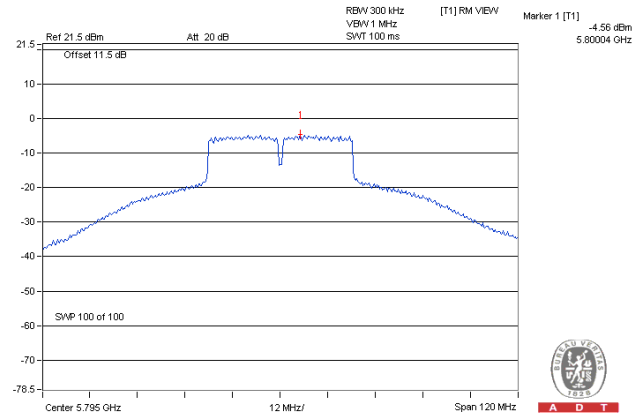
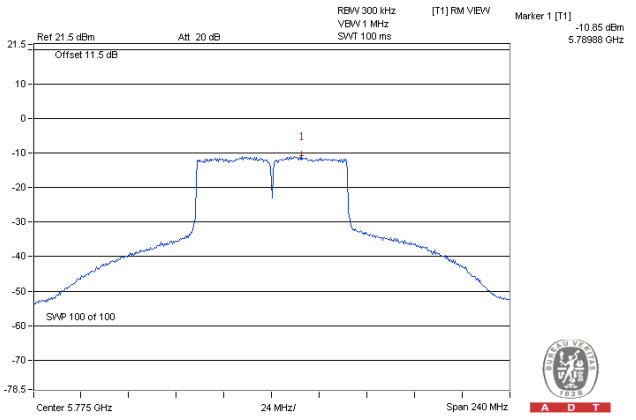
Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]= 11.81dBi > 6dBi , so the power density limit shall be reduced to 30-(11.81-6) = 24.19dBm.

802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=4) dB	Duty factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	155	5775	-10.85	-8.63	6.02	0.18	-2.43	24.19	Pass
1	155	5775	-11.78	-9.56	6.02	0.18	-3.36	24.19	Pass
2	155	5775	-13.14	-10.92	6.02	0.18	-4.72	24.19	Pass
3	155	5775	-12.84	-10.62	6.02	0.18	-4.42	24.19	Pass

Note:

1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]= 11.81dBi > 6dBi , so the power density limit shall be reduced to 30-(11.81-6) = 24.19dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

Radio 1 - 2TX CDD Mode

802.11a

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	149	5745	-2.25	-0.03	3.01	2.98	27.14	Pass
	157	5785	-2.12	0.10	3.01	3.11	27.14	Pass
	165	5825	-1.54	0.68	3.01	3.69	27.14	Pass
3	149	5745	-2.31	-0.09	3.01	2.92	27.14	Pass
	157	5785	-2.27	-0.05	3.01	2.96	27.14	Pass
	165	5825	-2.08	0.14	3.01	3.15	27.14	Pass

Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2$]= 8.86dBi > 6dBi , so the power density limit shall be reduced to 30-(8.86-6) = 27.14dBm.

802.11ac (VHT20)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	149	5745	-2.50	-0.28	3.01	2.73	27.14	Pass
	157	5785	-2.05	0.17	3.01	3.18	27.14	Pass
	165	5825	-1.94	0.28	3.01	3.29	27.14	Pass
3	149	5745	-2.69	-0.47	3.01	2.54	27.14	Pass
	157	5785	-2.46	-0.24	3.01	2.77	27.14	Pass
	165	5825	-2.56	-0.34	3.01	2.67	27.14	Pass

Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2$]= 8.86dBi > 6dBi , so the power density limit shall be reduced to 30-(8.86-6) = 27.14dBm.

802.11ac (VHT40)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	151	5755	-5.85	-3.63	3.01	-0.62	27.14	Pass
	159	5795	-5.06	-2.84	3.01	0.17	27.14	Pass
3	151	5755	-6.04	-3.82	3.01	-0.81	27.14	Pass
	159	5795	-5.69	-3.47	3.01	-0.46	27.14	Pass

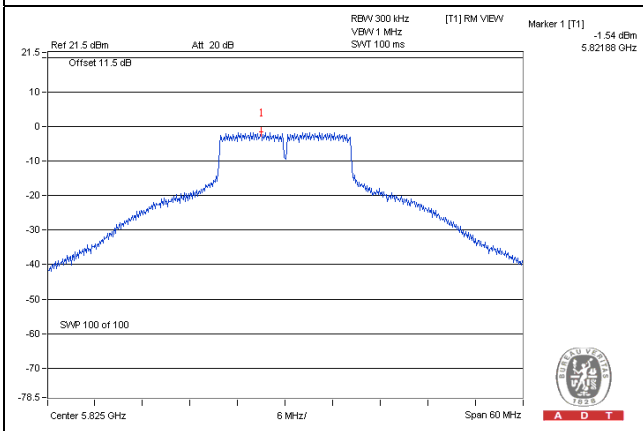
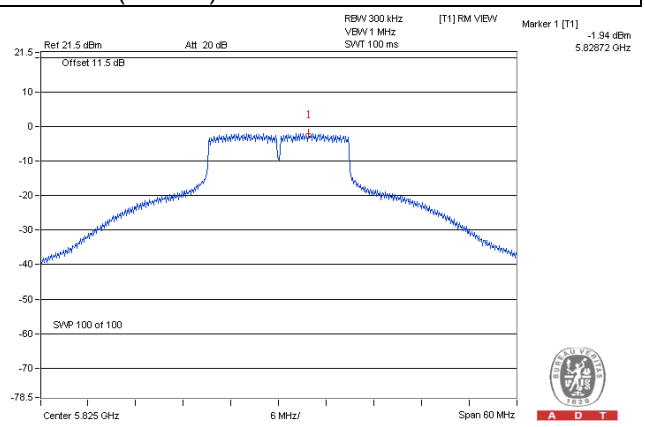
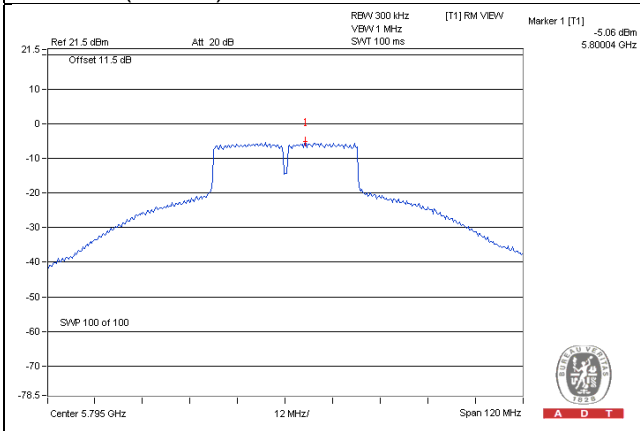
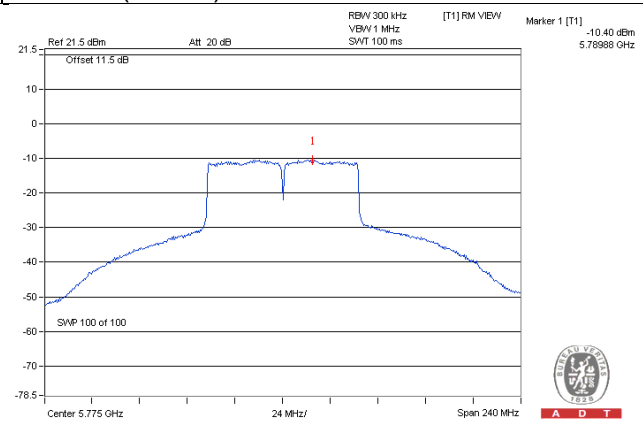
Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2$]= 8.86dBi > 6dBi , so the power density limit shall be reduced to 30-(8.86-6) = 27.14dBm.

802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	155	5775	-10.40	-8.18	3.01	0.18	-4.99	27.14	Pass
3	155	5775	-11.02	-8.80	3.01	0.18	-5.61	27.14	Pass

Note:

1. Directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20}$)^2/2]= 8.86dBi > 6dBi , so the power density limit shall be reduced to 30-(8.86-6) = 27.14dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

Radio 2 - 4TX CDD Mode

802.11a

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=4) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	149	5745	-0.84	1.38	6.02	7.40	24.30	Pass
	157	5785	-1.22	1.00	6.02	7.02	24.30	Pass
	165	5825	-0.90	1.32	6.02	7.34	24.30	Pass
1	149	5745	-0.58	1.64	6.02	7.66	24.30	Pass
	157	5785	-0.56	1.66	6.02	7.68	24.30	Pass
	165	5825	-0.47	1.75	6.02	7.77	24.30	Pass
2	149	5745	0.35	2.57	6.02	8.59	24.30	Pass
	157	5785	0.00	2.22	6.02	8.24	24.30	Pass
	165	5825	-0.21	2.01	6.02	8.03	24.30	Pass
3	149	5745	-1.07	1.15	6.02	7.17	24.30	Pass
	157	5785	-1.26	0.96	6.02	6.98	24.30	Pass
	165	5825	-1.47	0.75	6.02	6.77	24.30	Pass

Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]= 11.70dBi > 6dBi , so the power density limit shall be reduced to 30-(11.70-6) = 24.30dBm.

802.11ac (VHT20)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=4) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	149	5745	-1.09	1.13	6.02	7.15	24.30	Pass
	157	5785	-1.24	0.98	6.02	7.00	24.30	Pass
	165	5825	-1.31	0.91	6.02	6.93	24.30	Pass
1	149	5745	-0.88	1.34	6.02	7.36	24.30	Pass
	157	5785	-1.06	1.16	6.02	7.18	24.30	Pass
	165	5825	-1.12	1.10	6.02	7.12	24.30	Pass
2	149	5745	-0.07	2.15	6.02	8.17	24.30	Pass
	157	5785	-0.50	1.72	6.02	7.74	24.30	Pass
	165	5825	-0.72	1.50	6.02	7.52	24.30	Pass
3	149	5745	-1.42	0.80	6.02	6.82	24.30	Pass
	157	5785	-1.50	0.72	6.02	6.74	24.30	Pass
	165	5825	-1.77	0.45	6.02	6.47	24.30	Pass

Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]= 11.70dBi > 6dBi , so the power density limit shall be reduced to 30-(11.70-6) = 24.30dBm.

802.11ac (VHT40)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=4) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	151	5755	-3.87	-1.65	6.02	4.37	24.30	Pass
	159	5795	-3.85	-1.63	6.02	4.39	24.30	Pass
1	151	5755	-4.06	-1.84	6.02	4.18	24.30	Pass
	159	5795	-4.32	-2.10	6.02	3.92	24.30	Pass
2	151	5755	-3.40	-1.18	6.02	4.84	24.30	Pass
	159	5795	-3.62	-1.40	6.02	4.62	24.30	Pass
3	151	5755	-4.79	-2.57	6.02	3.45	24.30	Pass
	159	5795	-4.72	-2.50	6.02	3.52	24.30	Pass

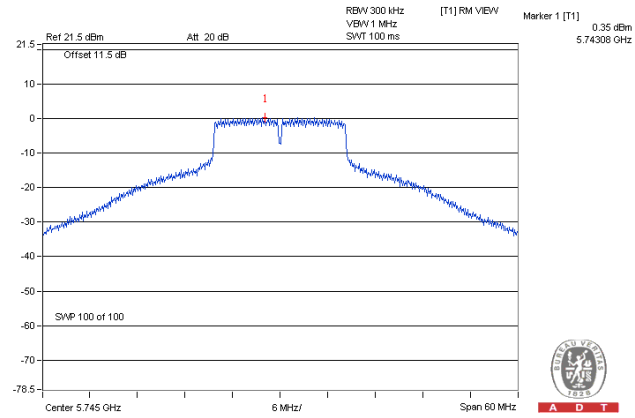
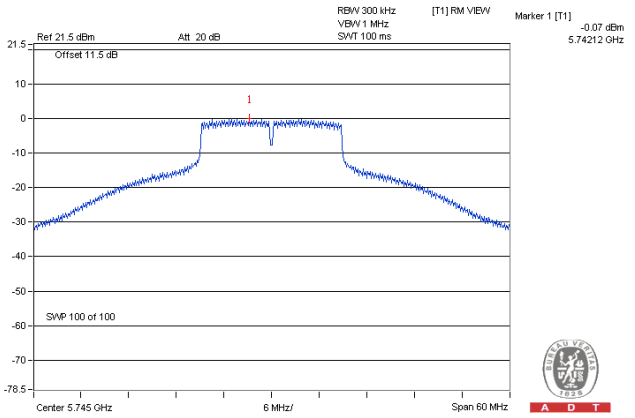
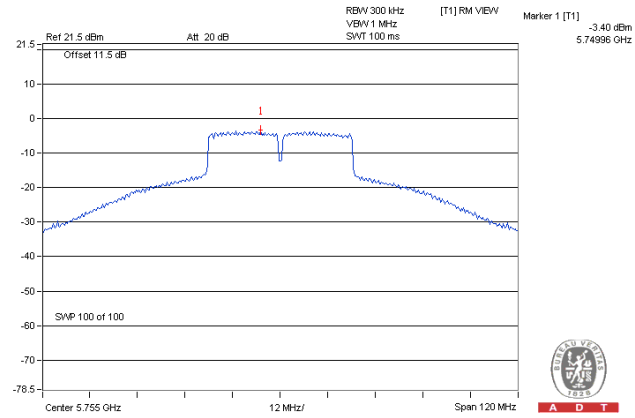
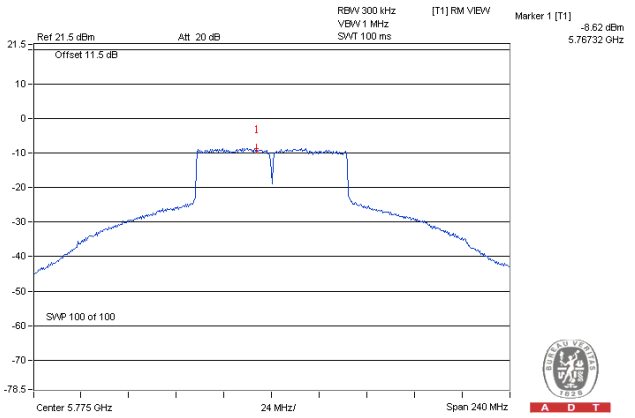
Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]= 11.70dBi > 6dBi , so the power density limit shall be reduced to 30-(11.70-6) = 24.30dBm.

802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=4) dB	Duty factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	155	5775	-8.95	-6.73	6.02	-0.53	-8.95	24.30	Pass
1	155	5775	-8.62	-6.40	6.02	-0.20	-8.62	24.30	Pass
2	155	5775	-8.66	-6.44	6.02	-0.24	-8.66	24.30	Pass
3	155	5775	-10.26	-8.04	6.02	-1.84	-10.26	24.30	Pass

Note:

1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]= 11.70dBi > 6dBi , so the power density limit shall be reduced to 30-(11.70-6) = 24.30dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

Radio 2 - 2TX CDD Mode

802.11a

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
1	149	5745	-2.33	-0.11	3.01	2.90	27.15	Pass
	157	5785	-2.29	-0.07	3.01	2.94	27.15	Pass
	165	5825	-2.34	-0.12	3.01	2.89	27.15	Pass
3	149	5745	-3.43	-1.21	3.01	1.80	27.15	Pass
	157	5785	-3.40	-1.18	3.01	1.83	27.15	Pass
	165	5825	-3.41	-1.19	3.01	1.82	27.15	Pass

Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2$]= 8.85dBi > 6dBi , so the power density limit shall be reduced to 30-(8.85-6) = 27.15dBm.

802.11ac (VHT20)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
1	149	5745	-2.67	-0.45	3.01	2.56	27.15	Pass
	157	5785	-2.49	-0.27	3.01	2.74	27.15	Pass
	165	5825	-2.51	-0.29	3.01	2.72	27.15	Pass
3	149	5745	-4.02	-1.80	3.01	1.21	27.15	Pass
	157	5785	-3.75	-1.53	3.01	1.48	27.15	Pass
	165	5825	-3.95	-1.73	3.01	1.28	27.15	Pass

Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2$]= 8.85dBi > 6dBi , so the power density limit shall be reduced to 30-(8.85-6) = 27.15dBm.

802.11ac (VHT40)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
1	151	5755	-5.77	-3.55	3.01	-0.54	27.15	Pass
	159	5795	-5.63	-3.41	3.01	-0.40	27.15	Pass
3	151	5755	-7.19	-4.97	3.01	-1.96	27.15	Pass
	159	5795	-7.06	-4.84	3.01	-1.83	27.15	Pass

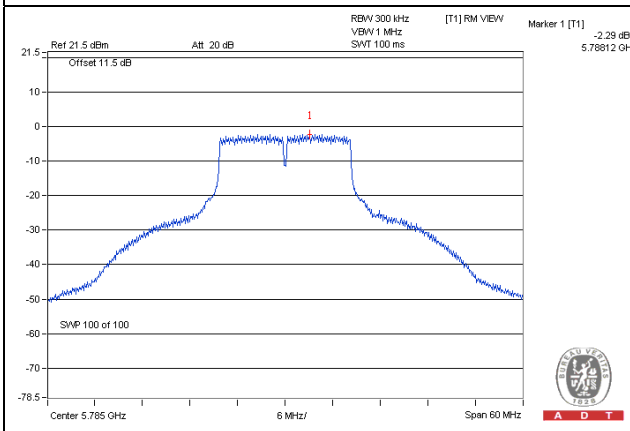
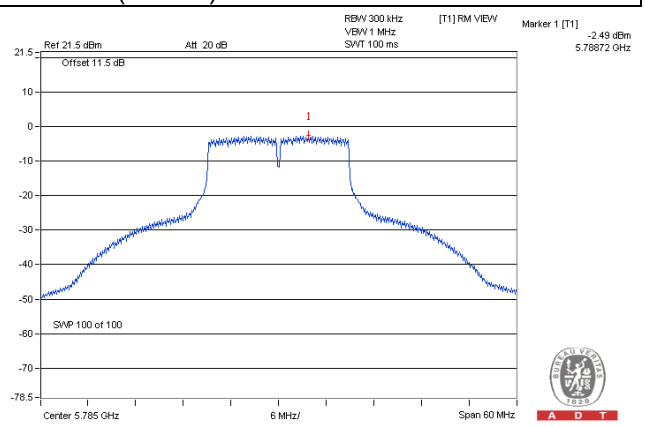
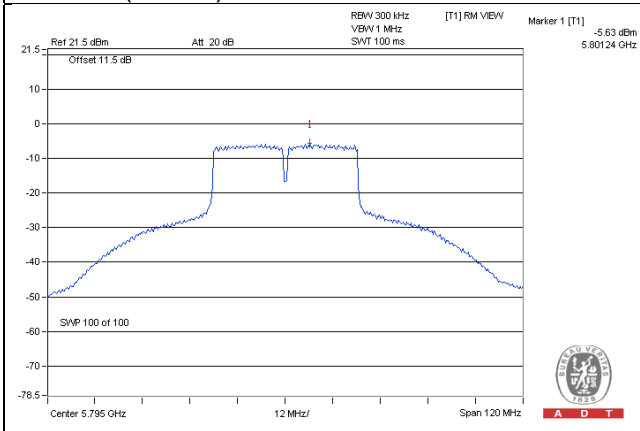
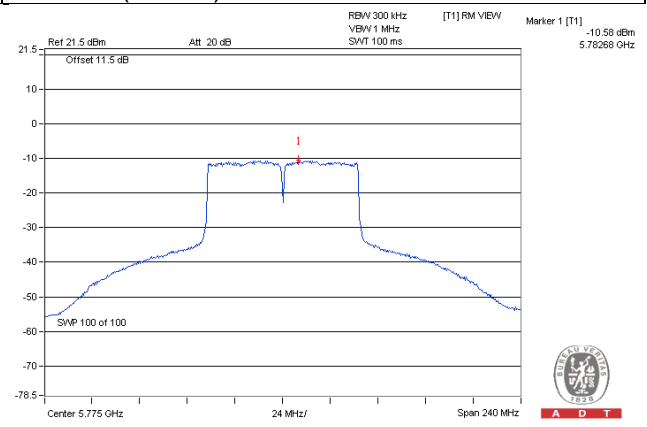
Note: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/2$]= 8.85dBi > 6dBi , so the power density limit shall be reduced to 30-(8.85-6) = 27.15dBm.

802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD (dBm/300 kHz)	PSD (dBm/500 kHz)	10 log (N=2) dB	Duty factor	Total PSD (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
1	155	5775	-10.58	-8.36	3.01	0.18	-5.17	27.15	Pass
3	155	5775	-12.09	-9.87	3.01	0.18	-6.68	27.15	Pass

Note:

1. Directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20}$)^2/2]= 8.85dBi > 6dBi , so the power density limit shall be reduced to 30-(8.85-6) = 27.15dBm.
2. Refer to section 3.3 for duty cycle spectrum plot.

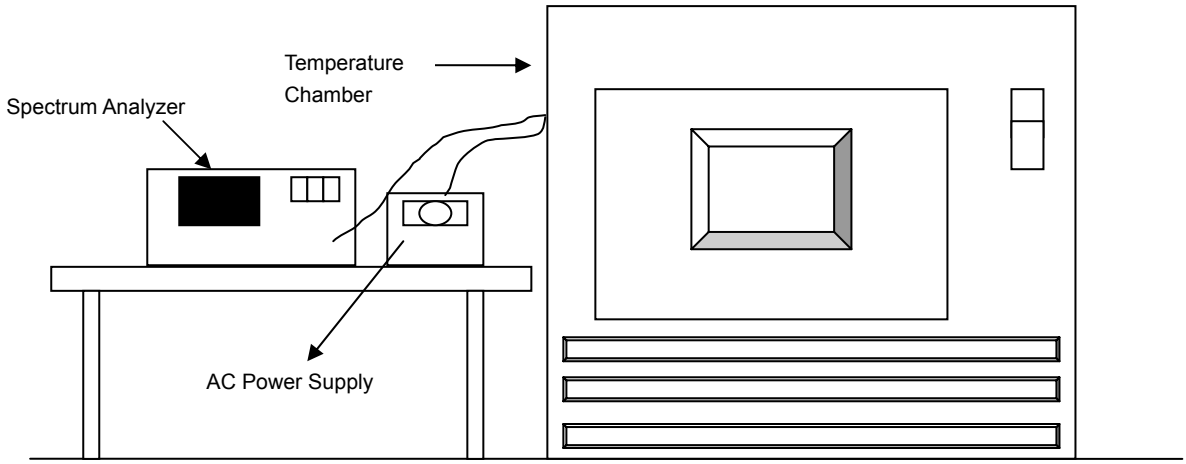
Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test 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.

4.6.4 Deviation from Test Standard

No deviation.

4.6.5 EUT Operating Condition

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

4.6.6 Test Results

Radio 1

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5179.9936	Pass	5179.997	Pass	5179.9939	Pass	5179.9948	Pass
40	120	5180.0034	Pass	5179.9996	Pass	5180.0026	Pass	5180.0018	Pass
30	120	5179.9808	Pass	5179.9791	Pass	5179.9767	Pass	5179.9805	Pass
20	120	5180.016	Pass	5180.0192	Pass	5180.0188	Pass	5180.0145	Pass
10	120	5179.9807	Pass	5179.9802	Pass	5179.977	Pass	5179.9774	Pass
0	120	5180.0213	Pass	5180.0187	Pass	5180.0211	Pass	5180.0184	Pass
-10	120	5179.9816	Pass	5179.9823	Pass	5179.982	Pass	5179.9827	Pass
-20	120	5179.9929	Pass	5179.9927	Pass	5179.9956	Pass	5179.9966	Pass
-30	120	5179.98	Pass	5179.9787	Pass	5179.9795	Pass	5179.9785	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5180.0162	Pass	5180.0198	Pass	5180.0194	Pass	5180.0148	Pass
	120	5180.016	Pass	5180.0192	Pass	5180.0188	Pass	5180.0145	Pass
	102	5180.0157	Pass	5180.0201	Pass	5180.0179	Pass	5180.0138	Pass

Radio 2

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5179.9843	Pass	5179.983	PASS	5179.987	Pass	5179.9841	Pass
40	120	5180.0089	Pass	5180.0077	PASS	5180.0059	Pass	5180.007	Pass
30	120	5179.9997	Pass	5180.0036	PASS	5180.0042	Pass	5180.0025	Pass
20	120	5179.9766	Pass	5179.9721	PASS	5179.9757	Pass	5179.9766	Pass
10	120	5179.9993	Pass	5179.997	PASS	5179.9963	Pass	5179.999	Pass
0	120	5180.0128	Pass	5180.0132	PASS	5180.0137	Pass	5180.0121	Pass
-10	120	5179.9806	Pass	5179.9812	PASS	5179.9785	Pass	5179.9801	Pass
-20	120	5180.0137	Pass	5180.0093	PASS	5180.0107	Pass	5180.0129	Pass
-30	120	5179.9999	Pass	5180.0028	PASS	5180.0019	Pass	5180.0004	Pass

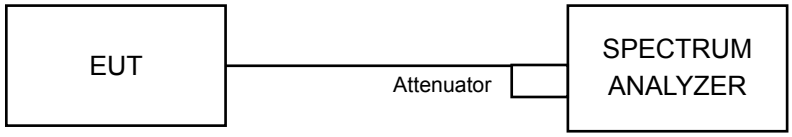
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9763	Pass	5179.9712	Pass	5179.975	Pass	5179.9769	Pass
	120	5179.9766	Pass	5179.9721	Pass	5179.9757	Pass	5179.9766	Pass
	102	5179.9774	Pass	5179.9725	Pass	5179.9765	Pass	5179.976	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

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

Radio 1 - 4TX CDD Mode

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.39	16.36	16.37	16.37	0.5	Pass
157	5785	16.36	16.38	16.35	16.34	0.5	Pass
165	5825	16.36	16.40	16.34	16.30	0.5	Pass

802.11ac (VHT20)

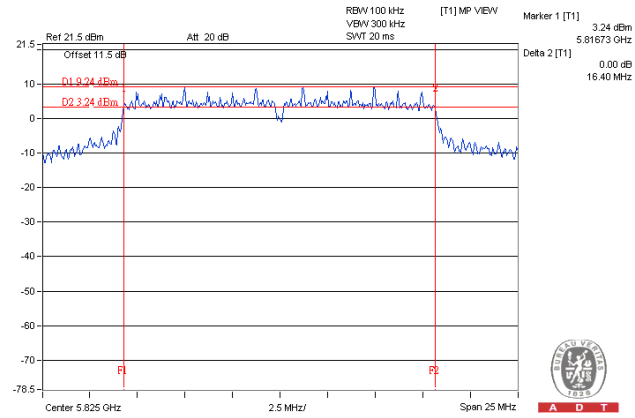
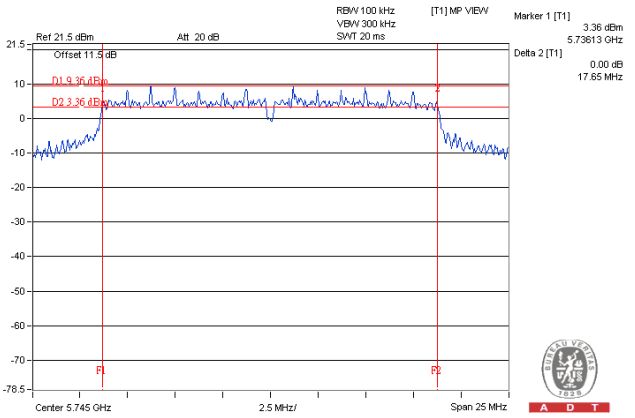
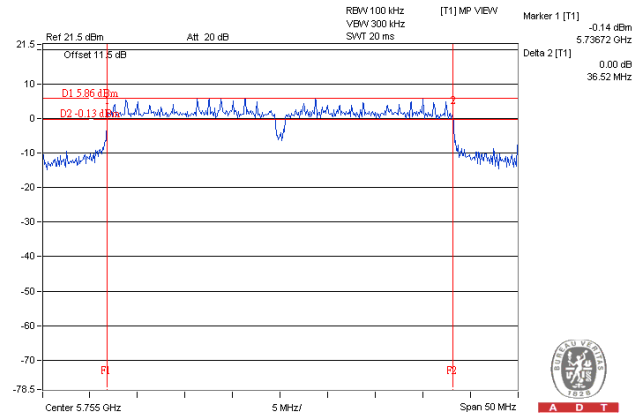
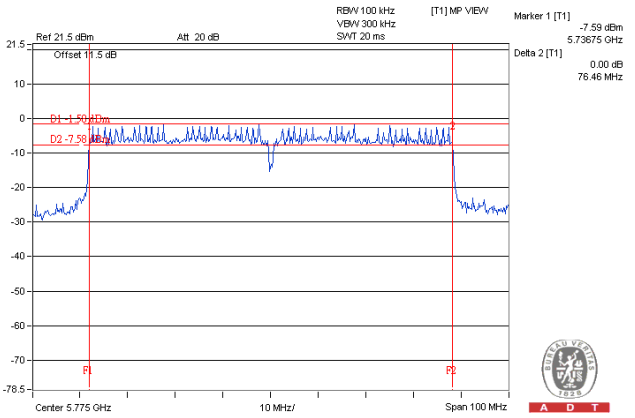
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	17.65	17.64	17.64	17.64	0.5	Pass
157	5785	17.63	17.65	17.63	17.60	0.5	Pass
165	5825	17.62	17.63	17.61	17.34	0.5	Pass

802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	36.52	36.47	36.47	36.46	0.5	Pass
159	5795	36.43	36.49	36.43	36.45	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	76.13	76.42	76.44	76.46	0.5	Pass

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

Radio 1 - 2TX CDD Mode

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 3		
149	5745	16.38	16.38	0.5	Pass
157	5785	16.38	16.43	0.5	Pass
165	5825	16.38	16.38	0.5	Pass

802.11ac (VHT20)

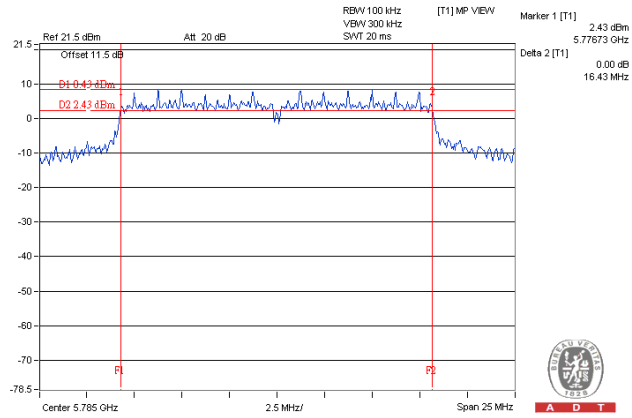
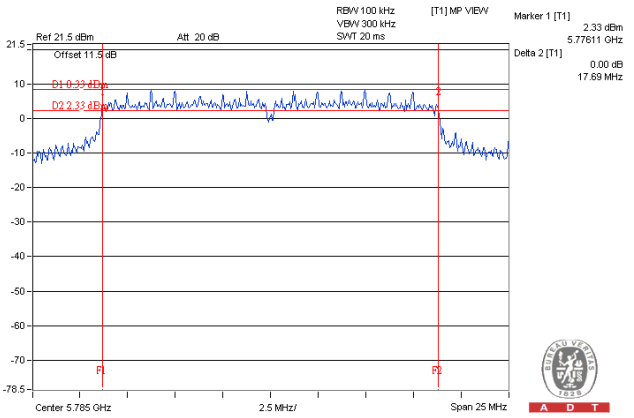
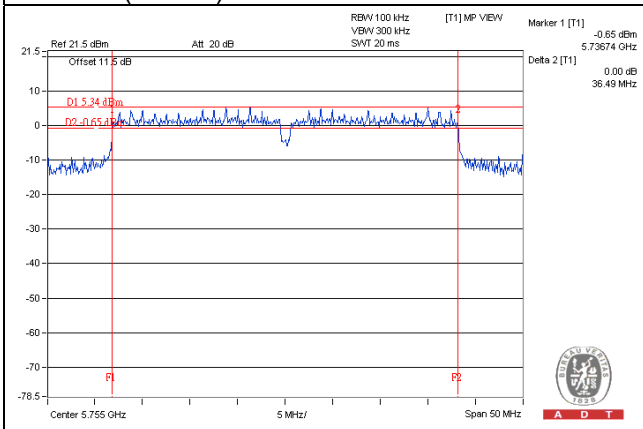
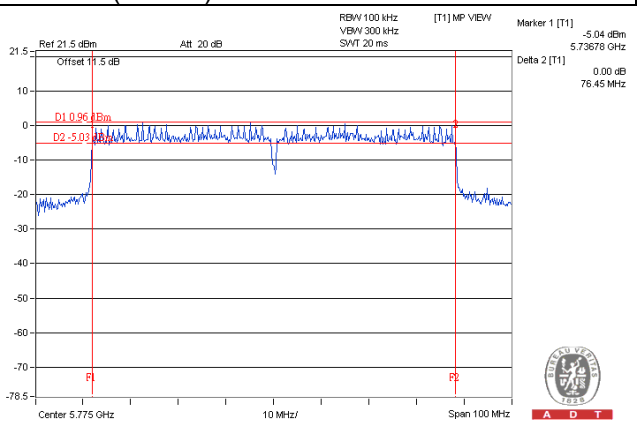
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 3		
149	5745	17.66	17.62	0.5	Pass
157	5785	17.63	17.69	0.5	Pass
165	5825	17.59	17.61	0.5	Pass

802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 3		
151	5755	36.46	36.49	0.5	Pass
159	5795	36.47	36.45	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 3		
155	5775	75.97	76.45	0.5	Pass

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

Radio 2 - 4TX CDD Mode

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	16.35	16.35	16.33	16.37	0.5	Pass
157	5785	16.36	16.37	16.34	16.37	0.5	Pass
165	5825	16.37	16.36	16.36	16.35	0.5	Pass

802.11ac (VHT20)

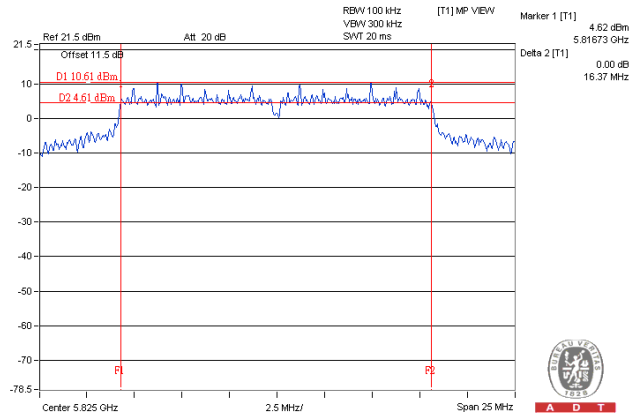
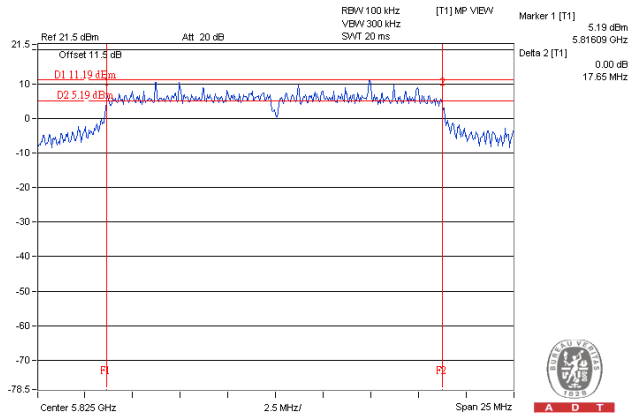
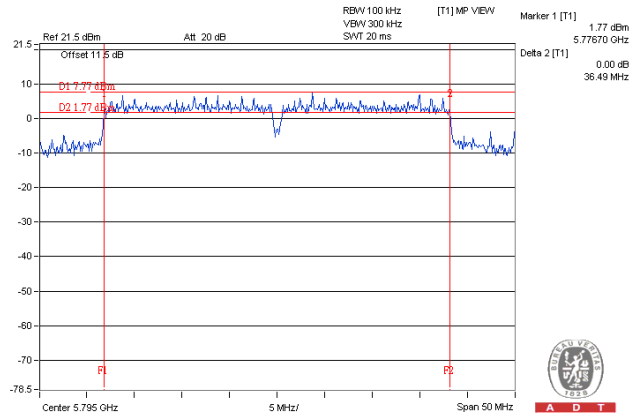
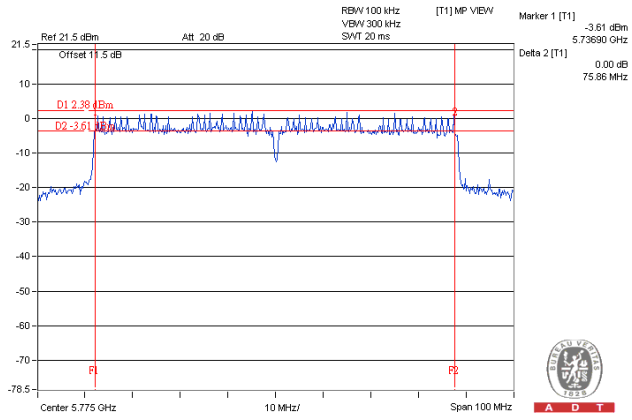
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
149	5745	17.59	17.62	17.63	17.17	0.5	Pass
157	5785	17.61	17.62	17.59	17.60	0.5	Pass
165	5825	17.61	17.65	17.60	17.62	0.5	Pass

802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
151	5755	36.42	36.48	36.46	36.43	0.5	Pass
159	5795	36.45	36.49	36.46	36.40	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
155	5775	75.79	75.55	75.53	75.86	0.5	Pass

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

Radio 2 - 2TX CDD Mode

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 3		
149	5745	16.41	16.44	0.5	Pass
157	5785	16.39	16.41	0.5	Pass
165	5825	16.39	16.43	0.5	Pass

802.11ac (VHT20)

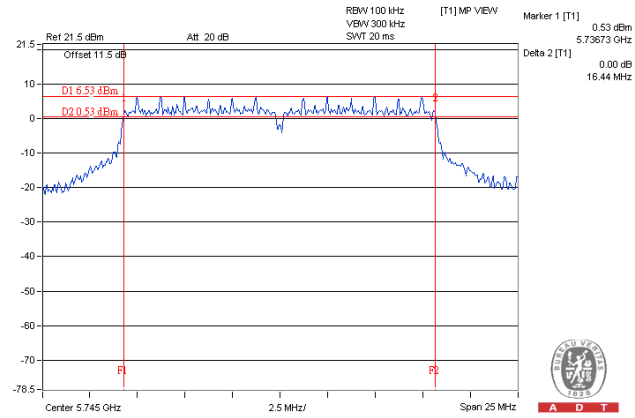
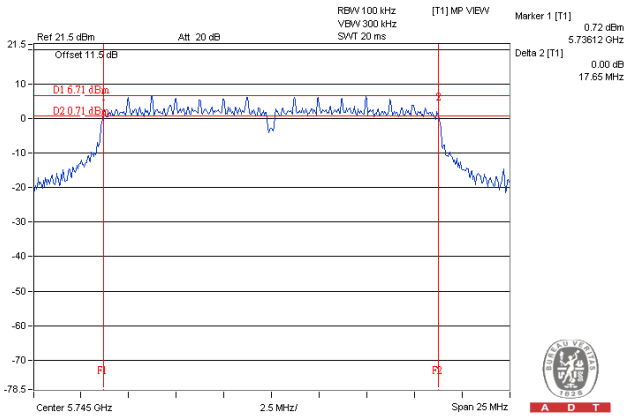
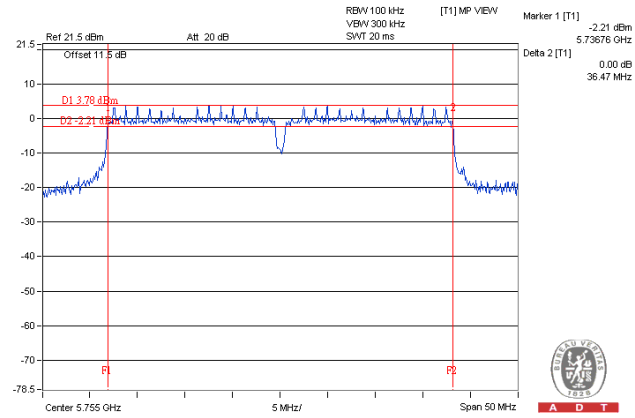
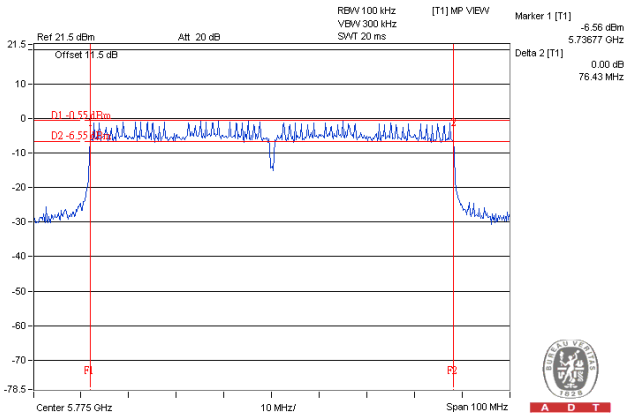
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 3		
149	5745	17.64	17.65	0.5	Pass
157	5785	17.62	17.64	0.5	Pass
165	5825	17.61	17.63	0.5	Pass

802.11ac (VHT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 3		
151	5755	36.44	36.47	0.5	Pass
159	5795	36.41	36.46	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 1	Chain 3		
155	5775	76.32	76.43	0.5	Pass

Spectrum Plot of Worst Value	
802.11a	802.11ac (VHT20)
	
802.11ac (VHT40)	802.11ac (VHT80)
	

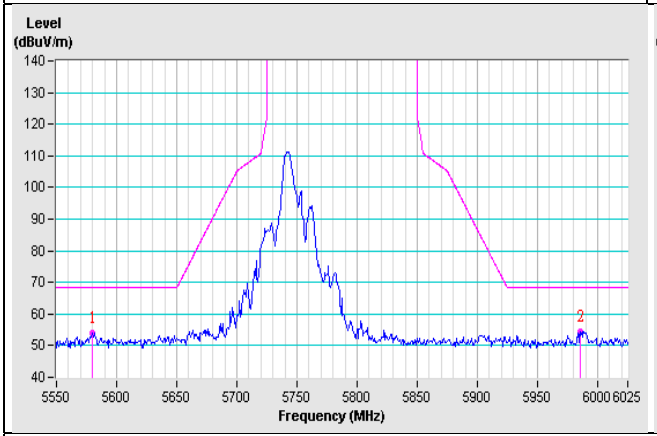
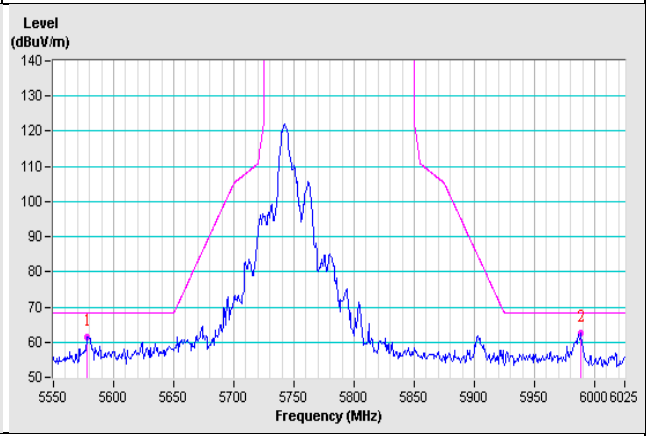
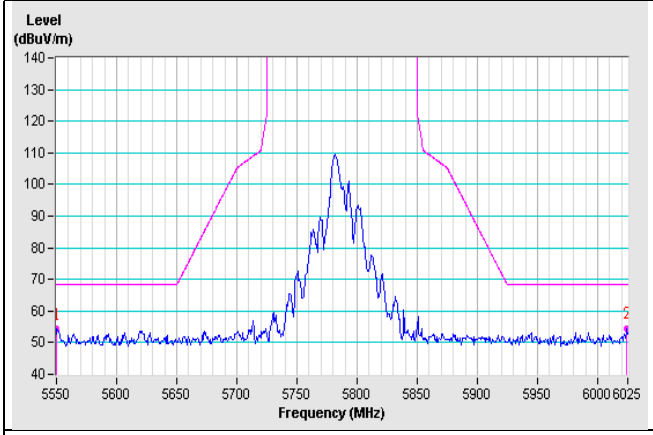
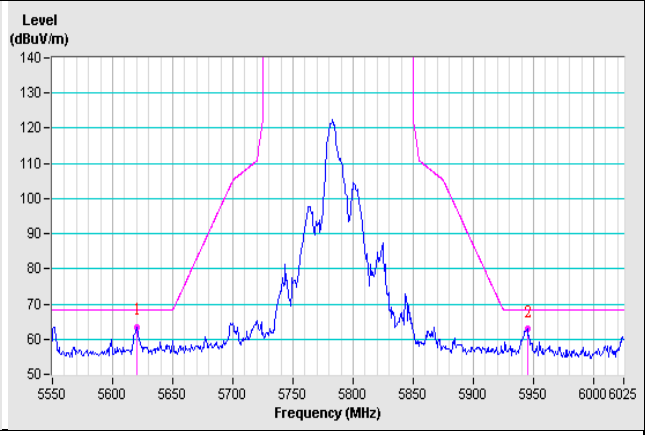
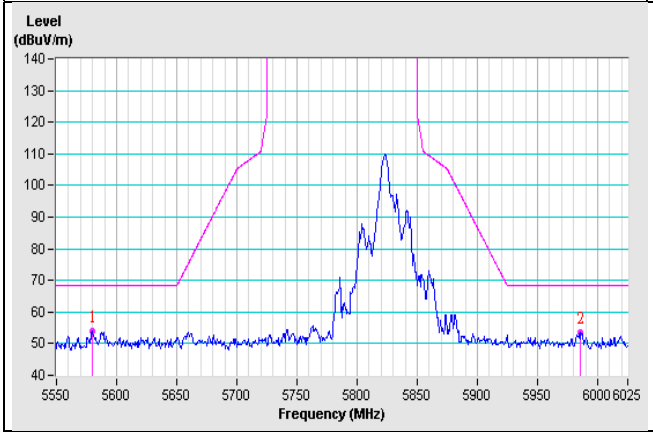
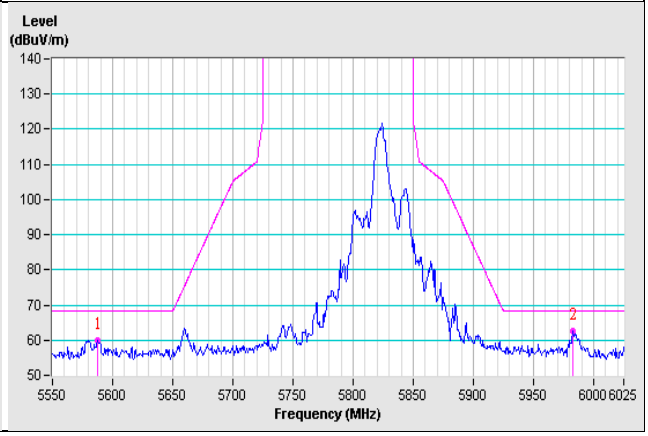
5 Pictures of Test Arrangements

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

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

Radio 1 - 4TX CDD Mode

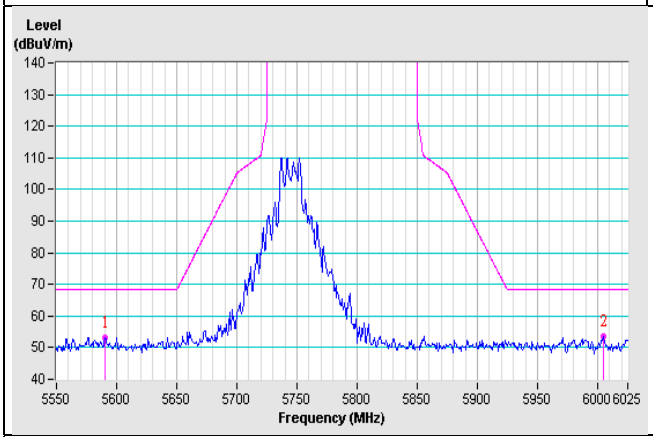
802.11a

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

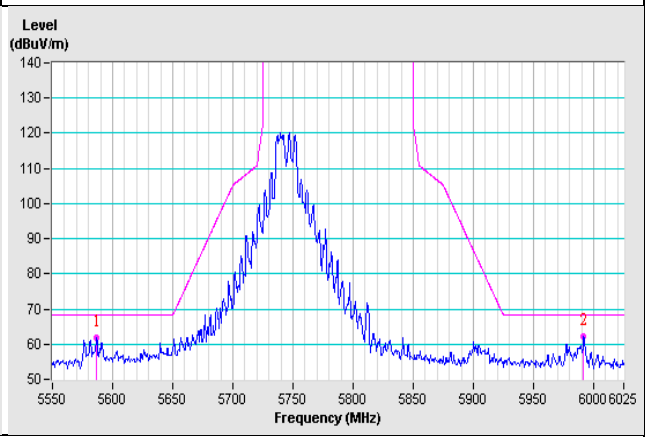
802.11ac (VHT20)

CH149

Horizontal

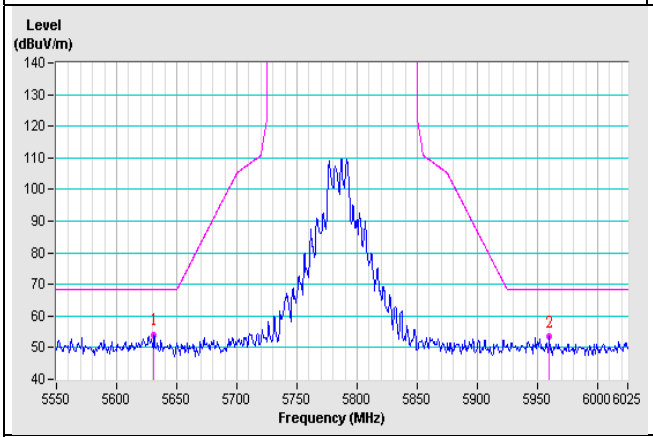


Vertical

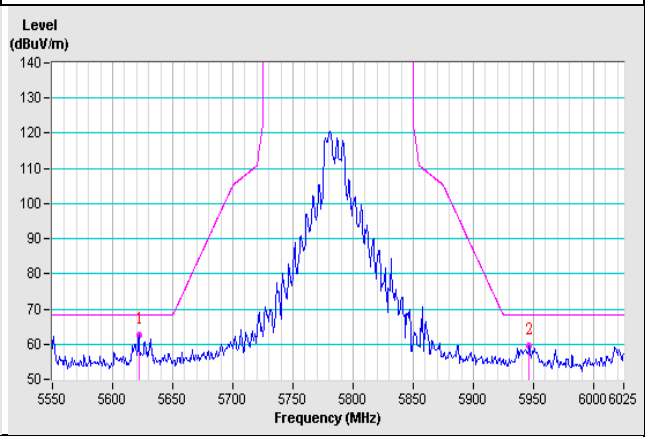


CH157

Horizontal

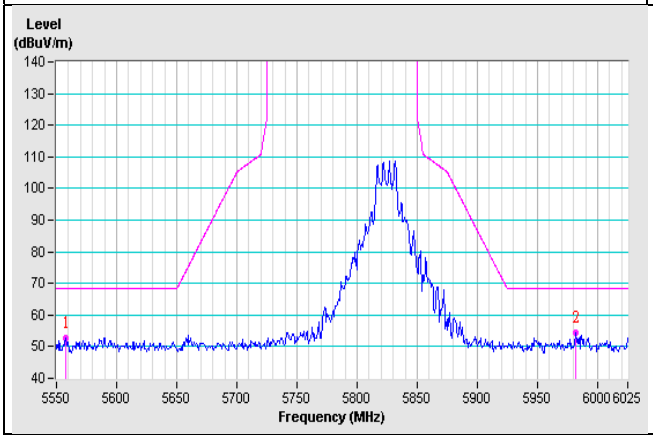


Vertical

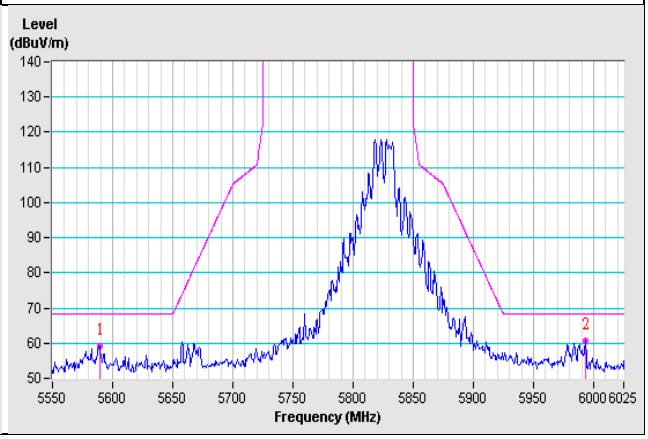


CH165

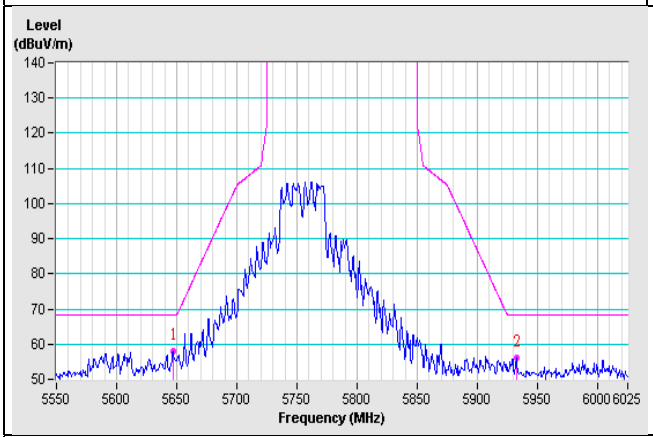
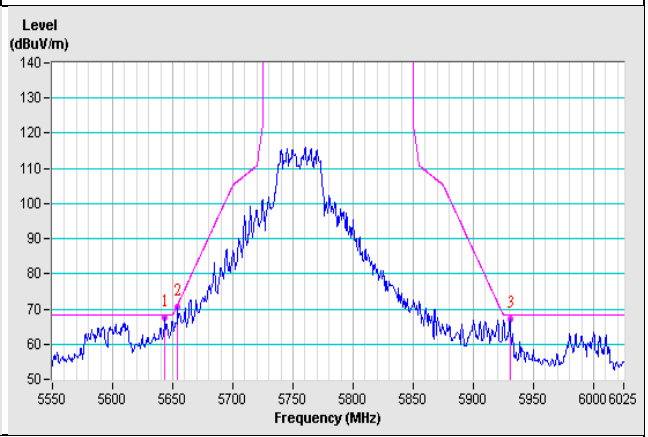
Horizontal

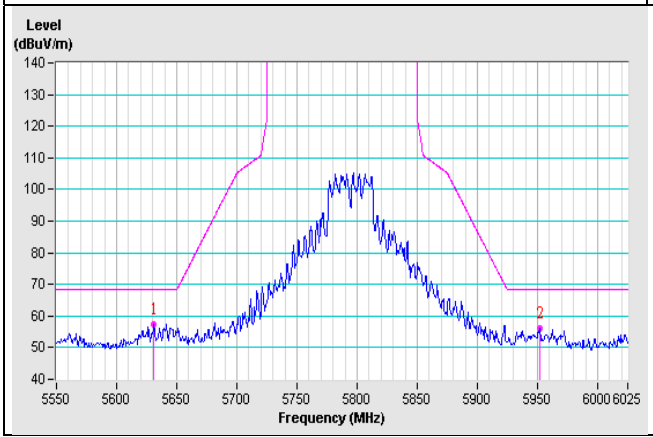
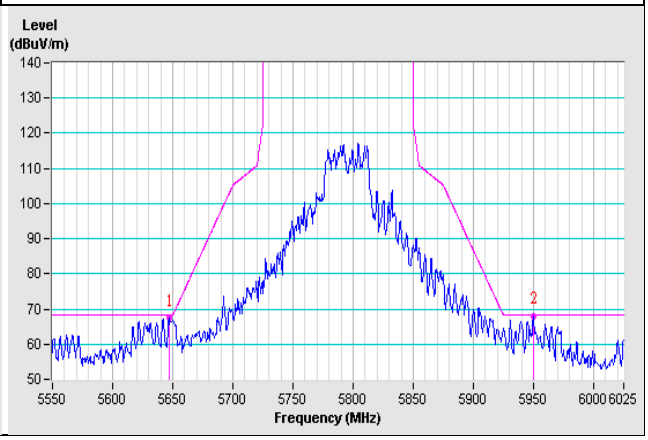


Vertical

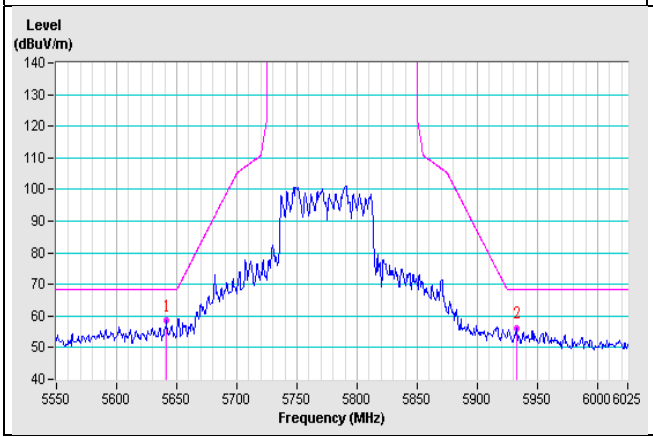
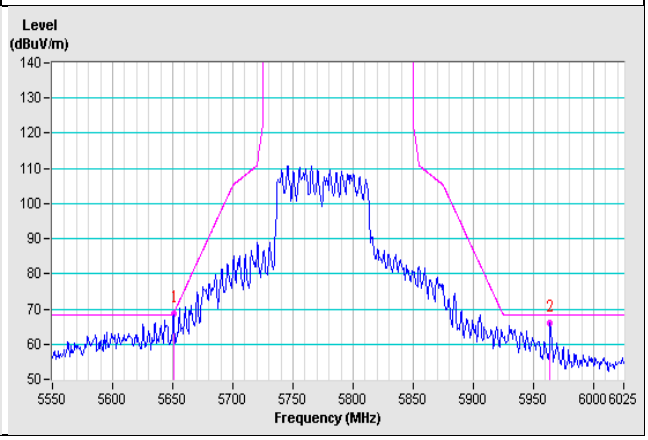


802.11ac (VHT40)

CH151	
Horizontal	Vertical
	

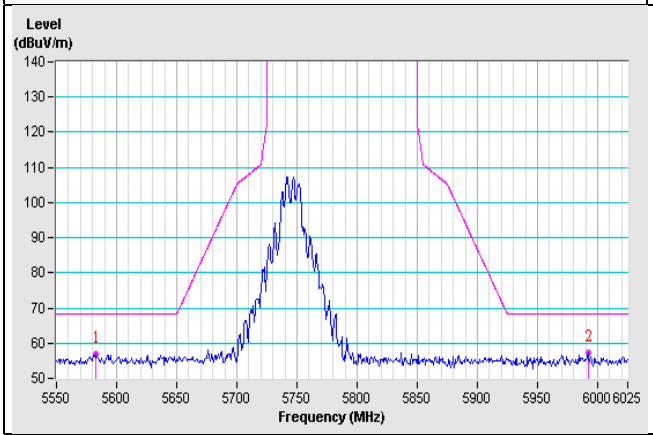
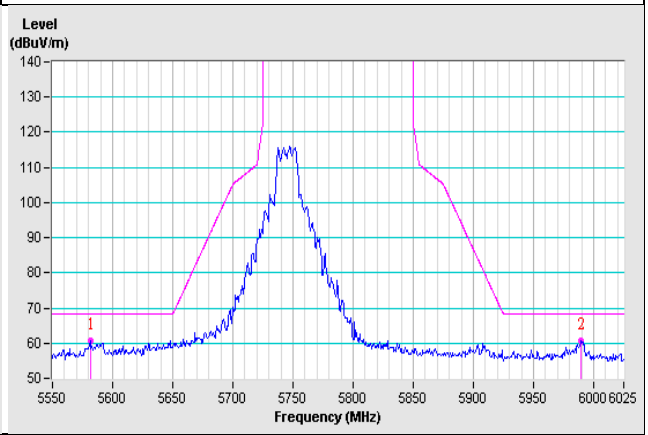
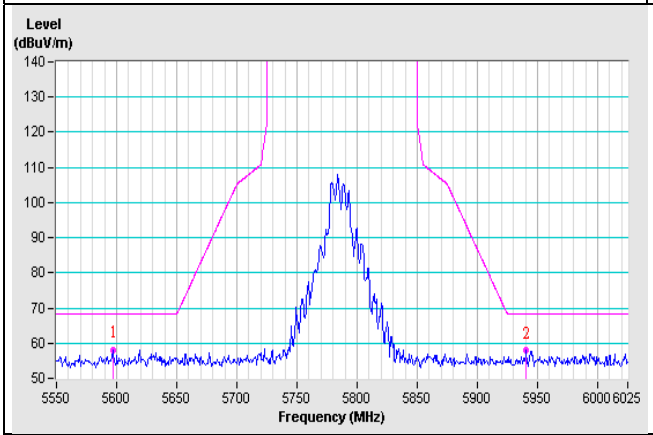
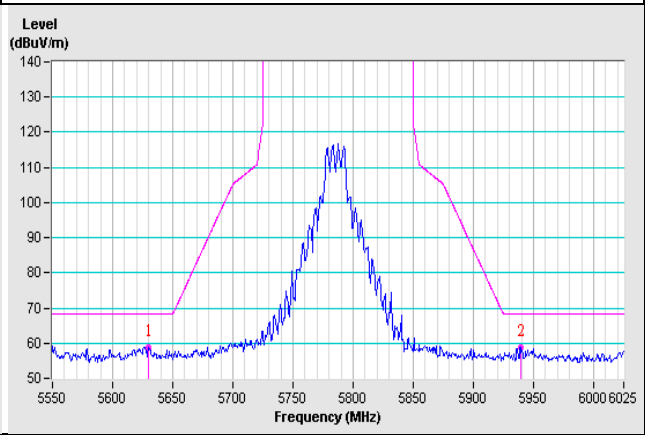
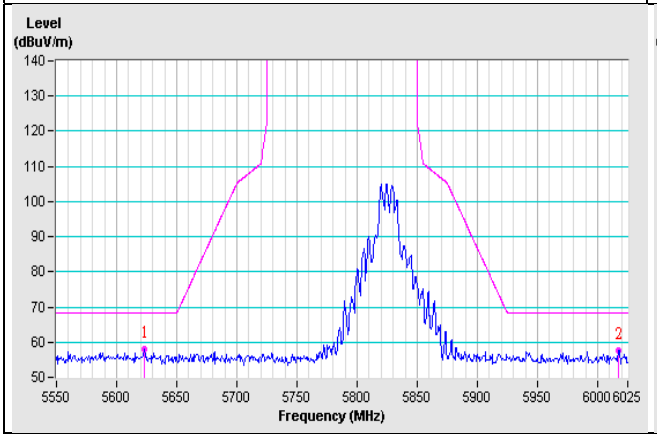
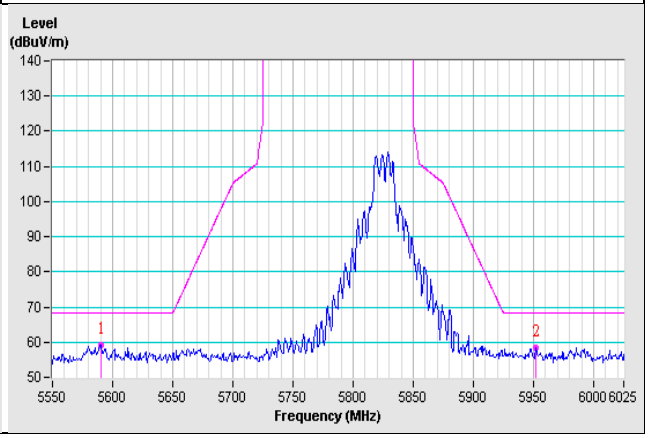
CH159	
Horizontal	Vertical
	

802.11ac (VHT80)

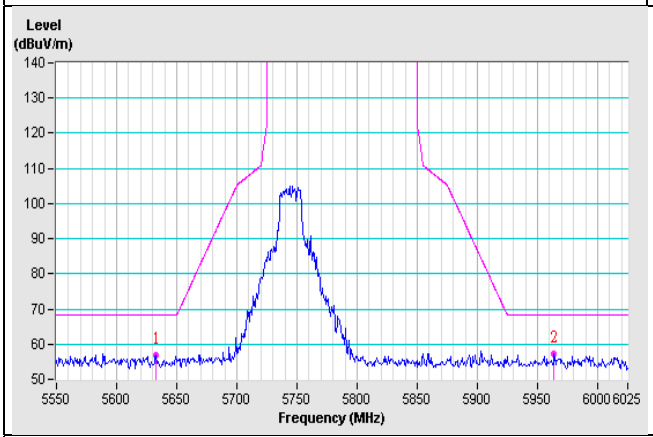
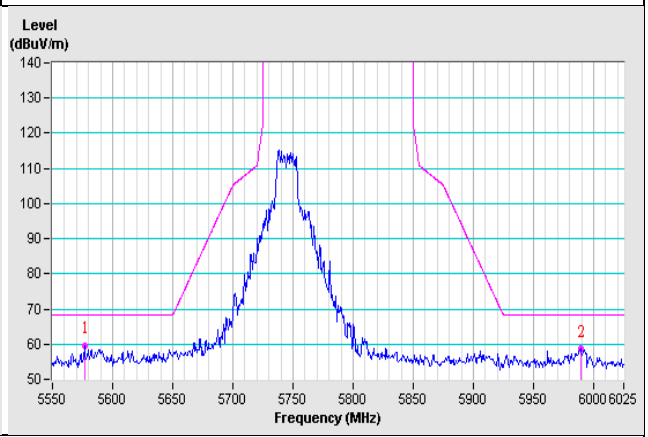
CH155	
Horizontal	Vertical
	

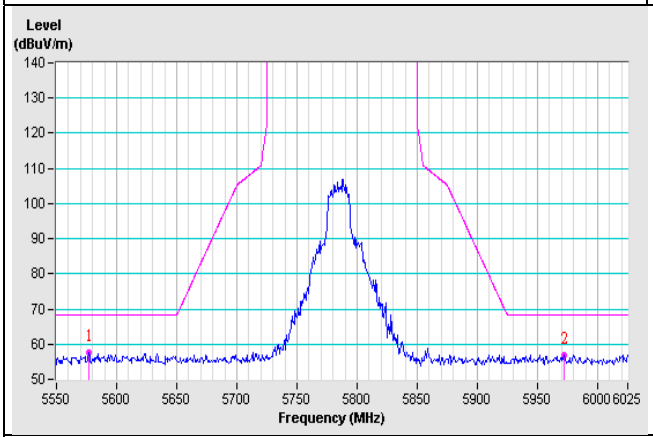
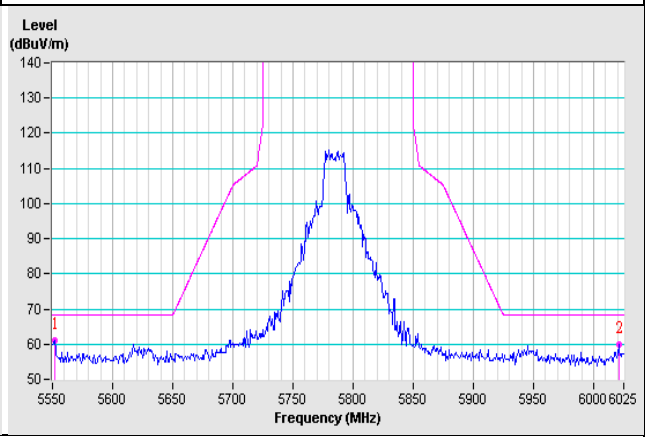
Radio 1 - 2TX CDD Mode

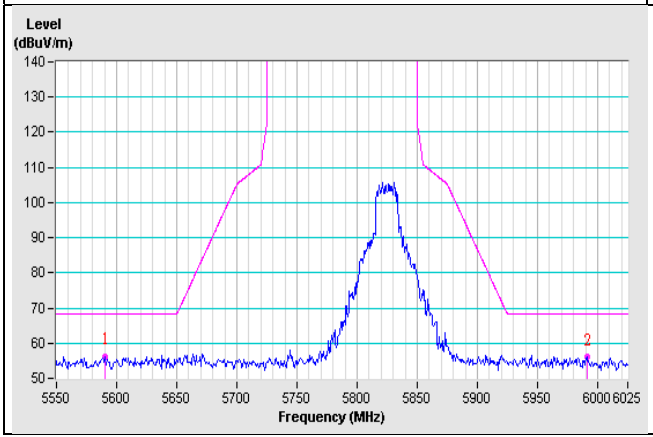
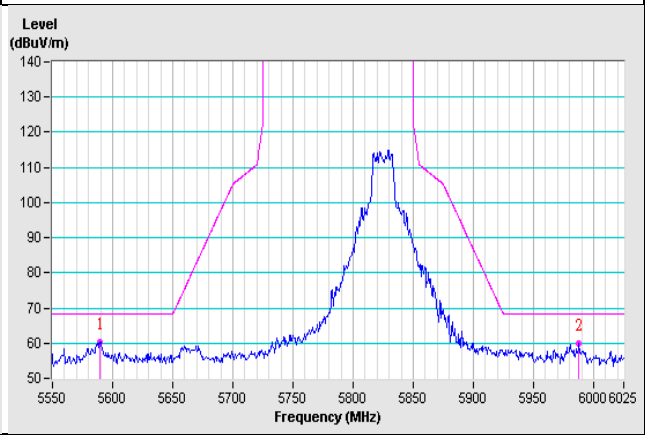
802.11a

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

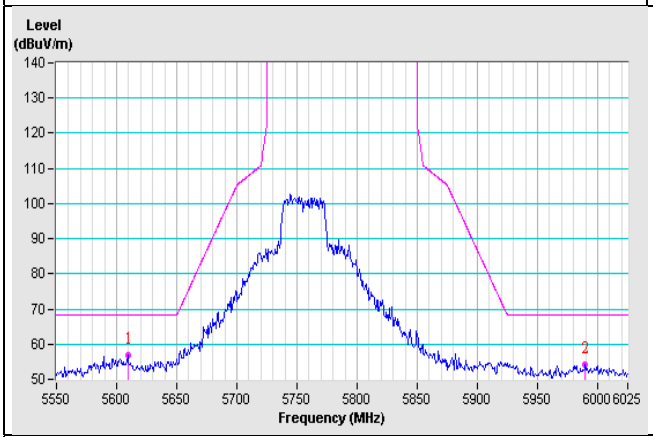
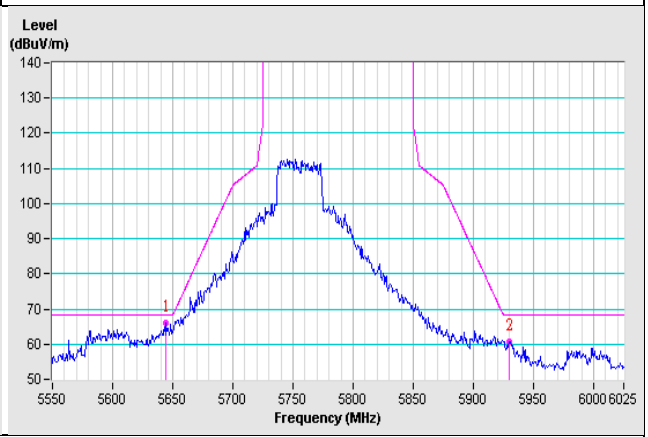
802.11ac (VHT20)

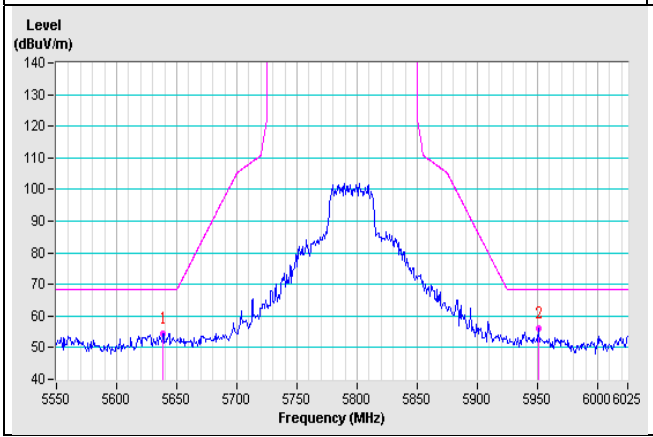
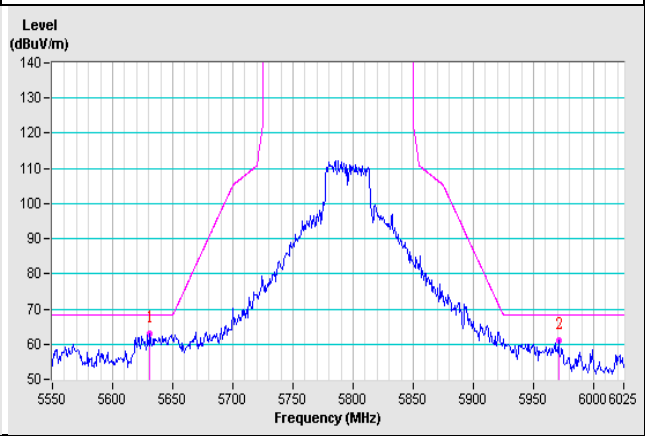
CH149	
Horizontal	Vertical
	

CH157	
Horizontal	Vertical
	

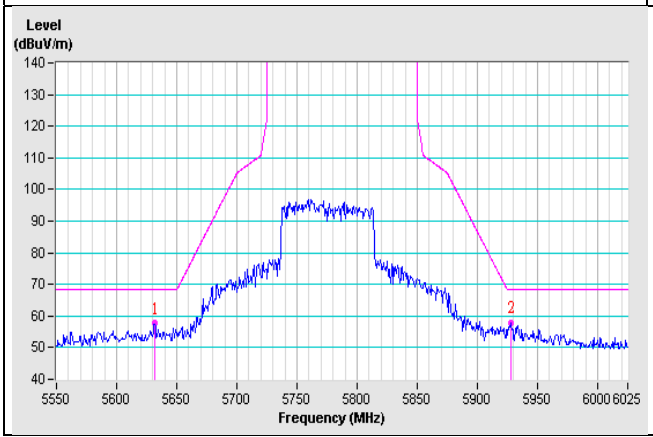
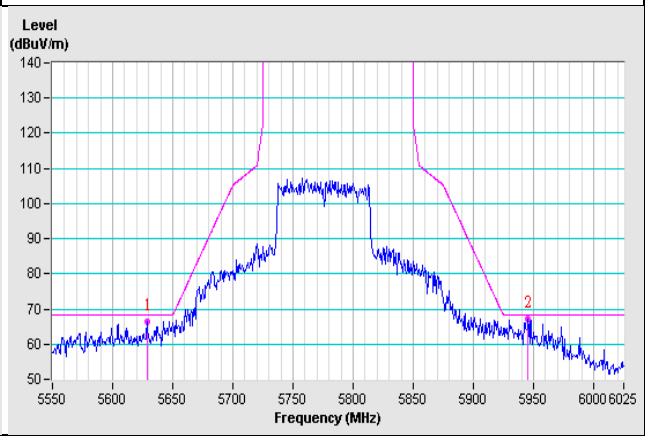
CH165	
Horizontal	Vertical
	

802.11ac (VHT40)

CH151	
Horizontal	Vertical
	

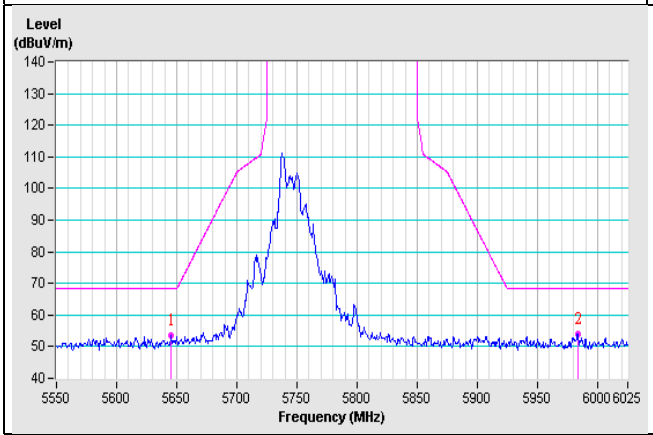
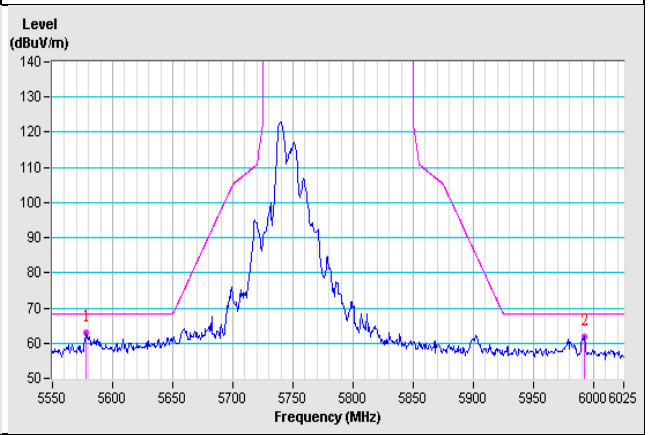
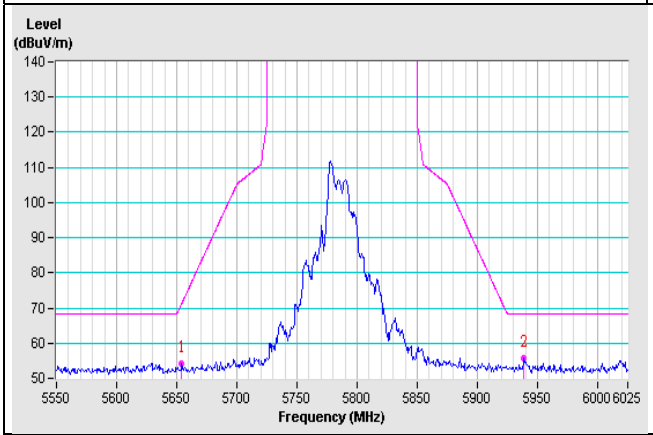
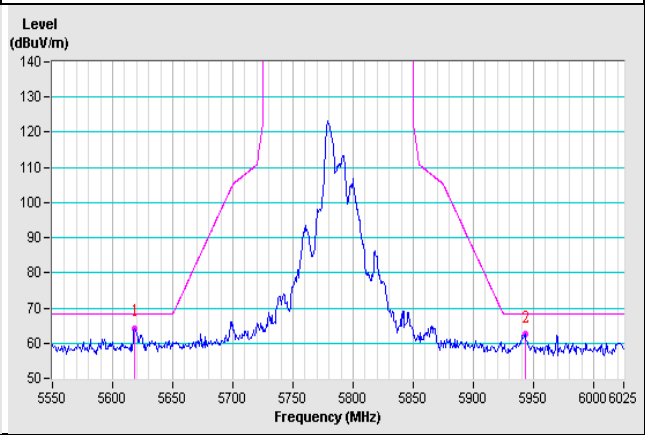
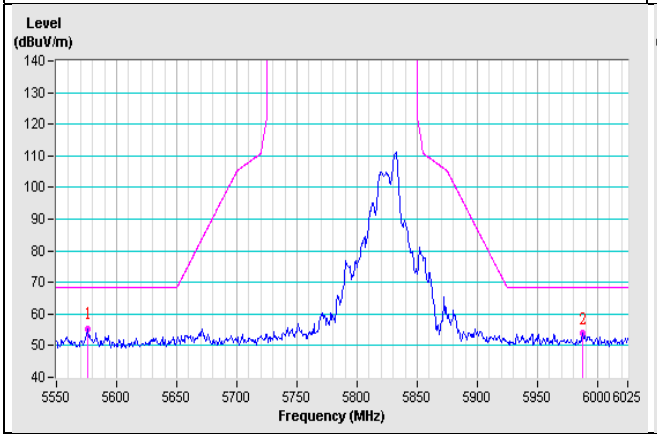
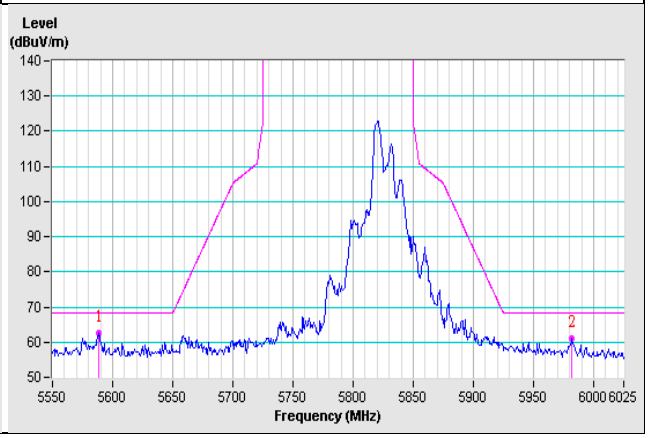
CH159	
Horizontal	Vertical
	

802.11ac (VHT80)

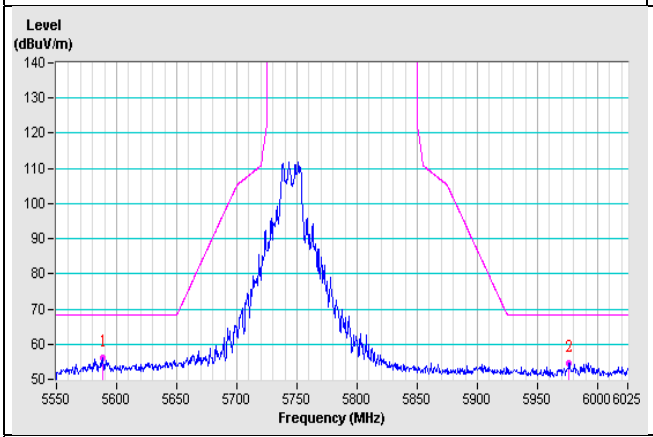
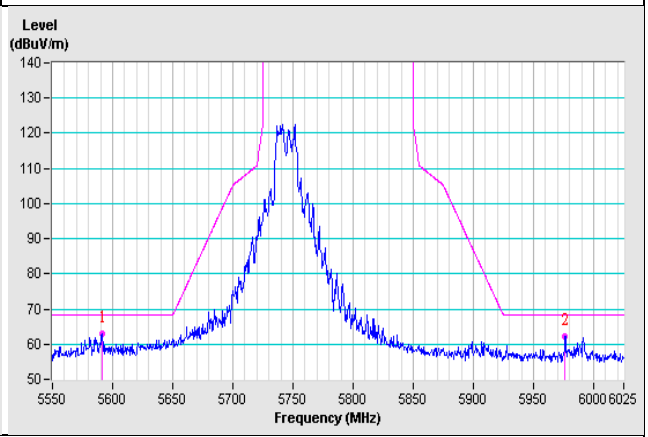
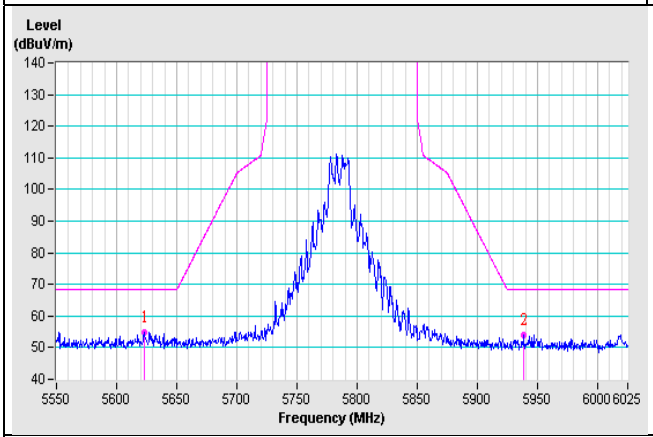
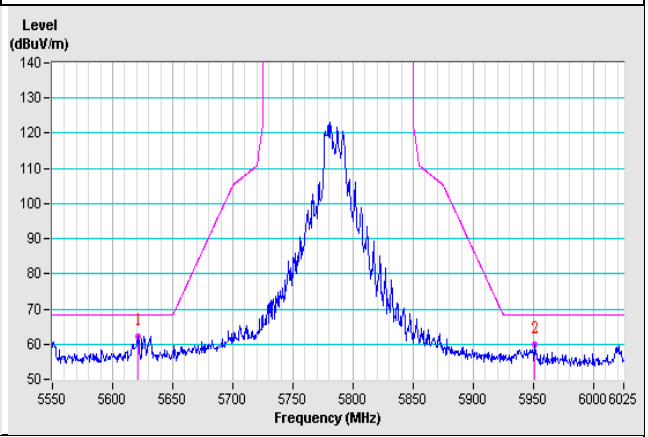
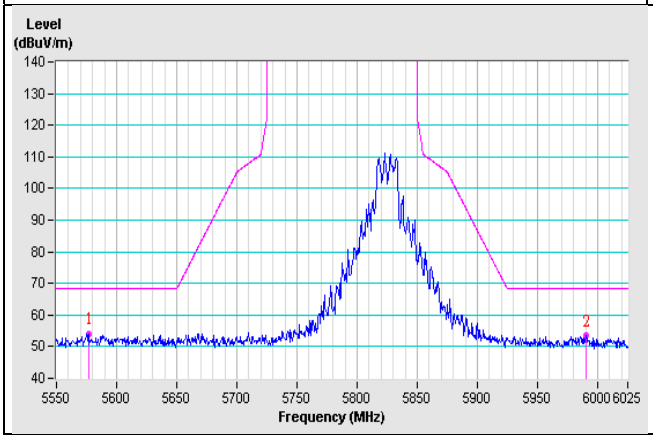
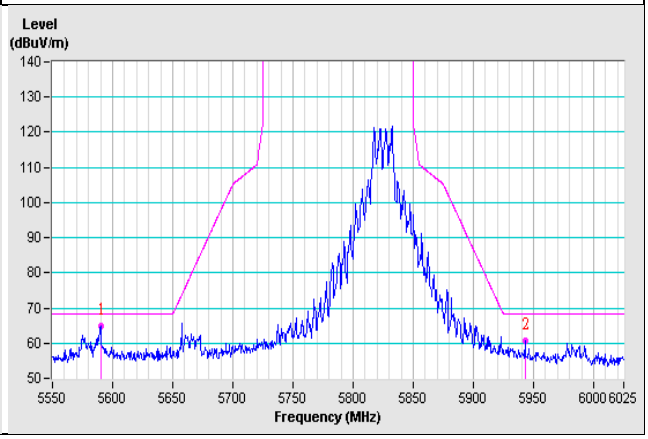
CH155	
Horizontal	Vertical
	

Radio 2 - 4TX with PIFA antenna CDD Mode

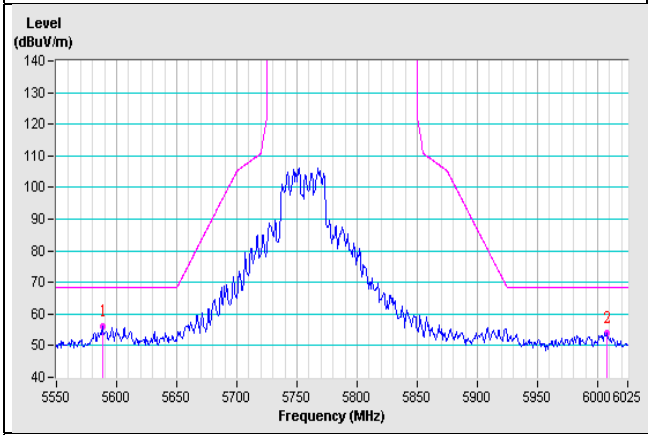
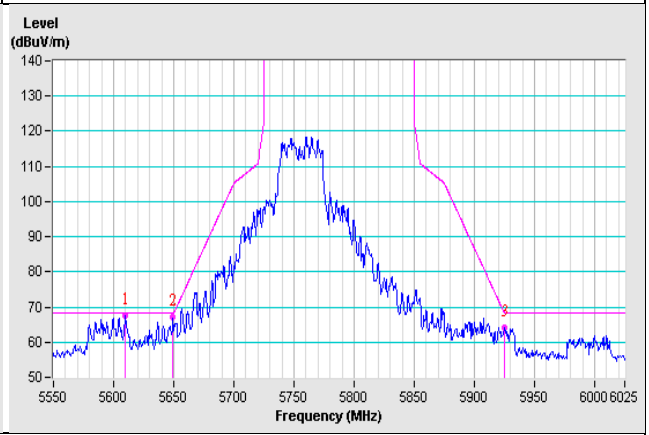
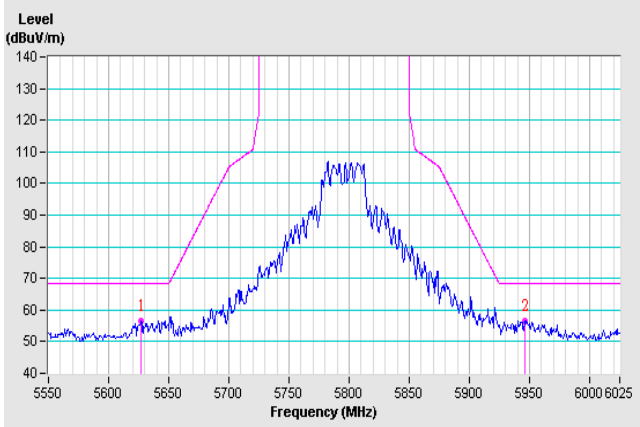
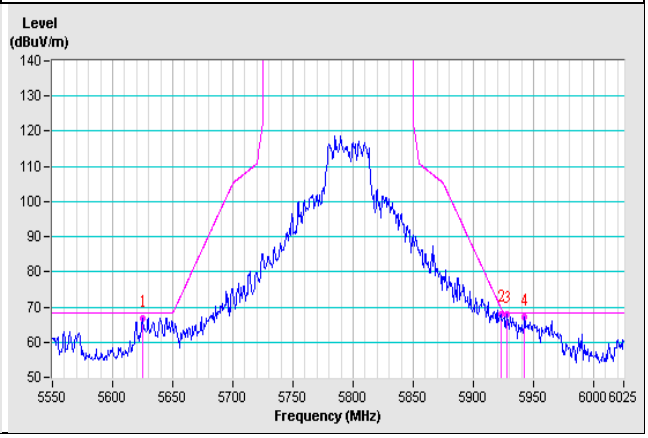
802.11a

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

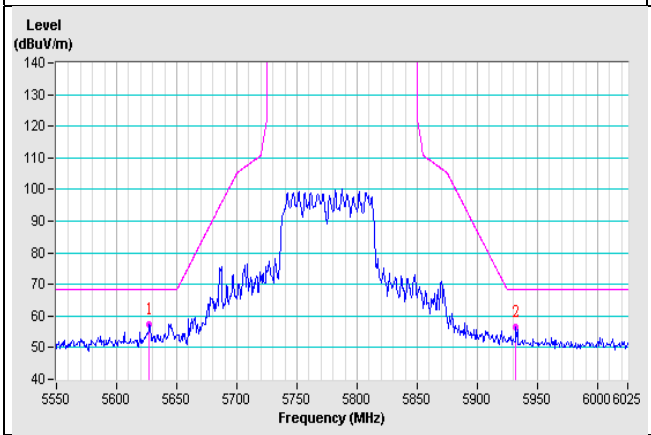
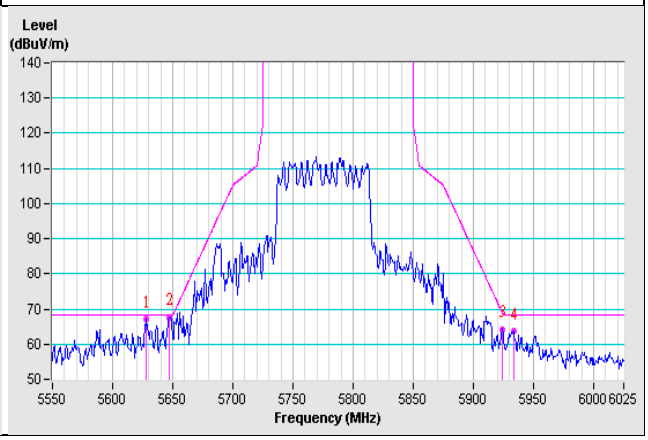
802.11ac (VHT20)

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

802.11ac (VHT40)

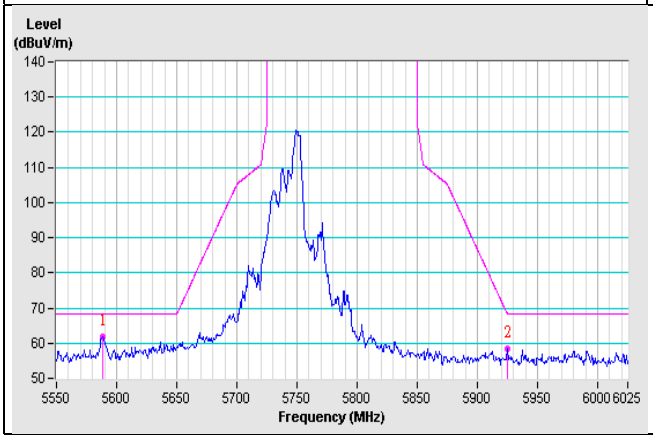
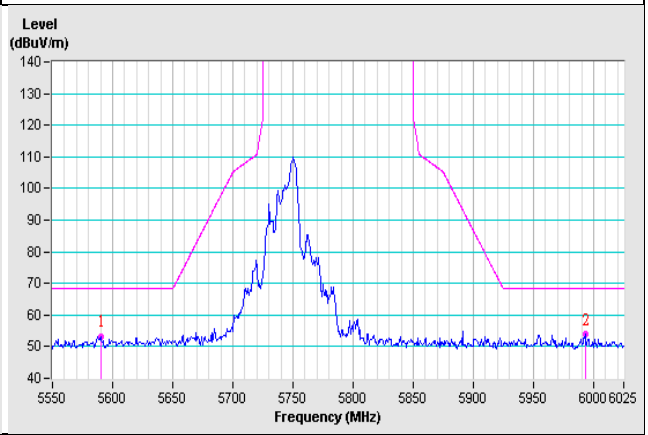
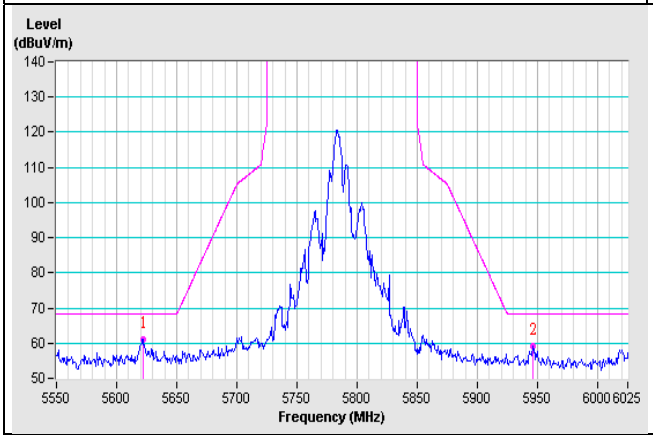
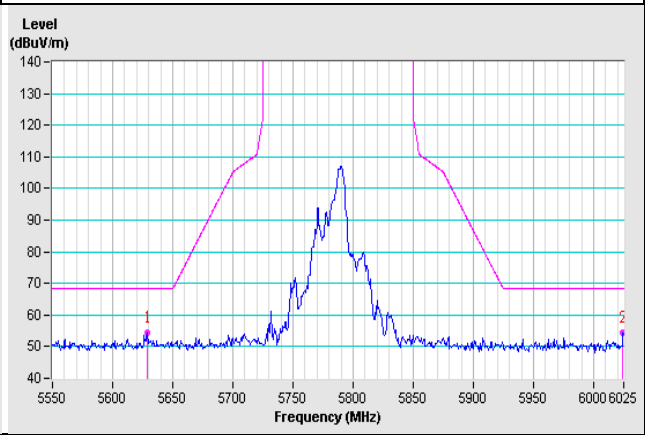
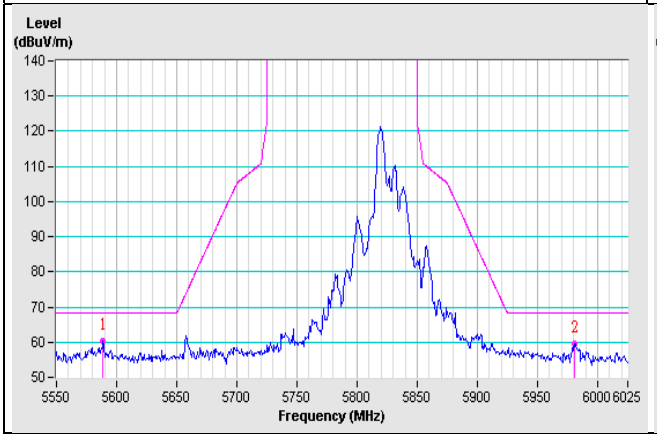
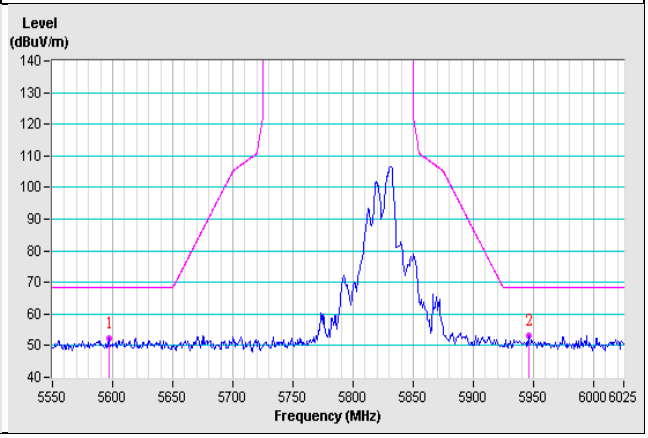
CH151	
Horizontal	Vertical
	
CH159	
Horizontal	Vertical
	

802.11ac (VHT80)

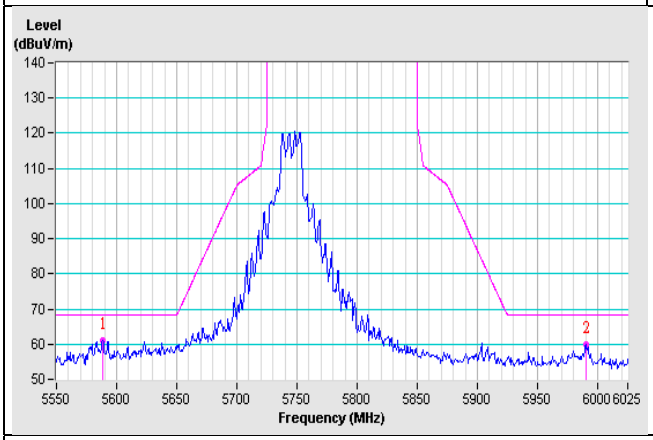
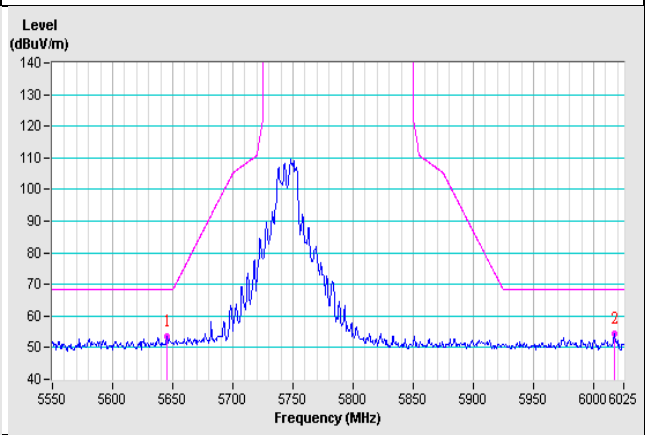
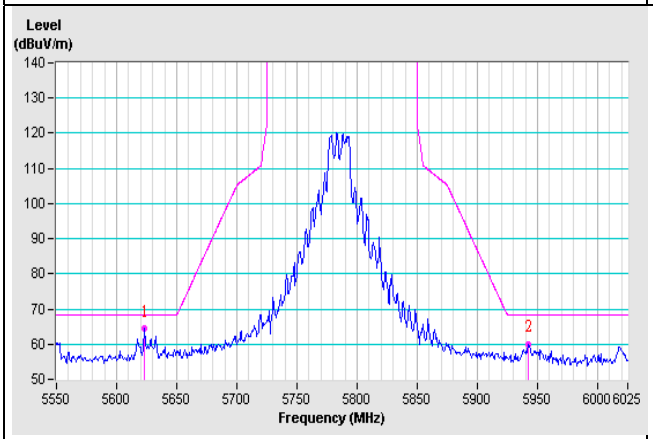
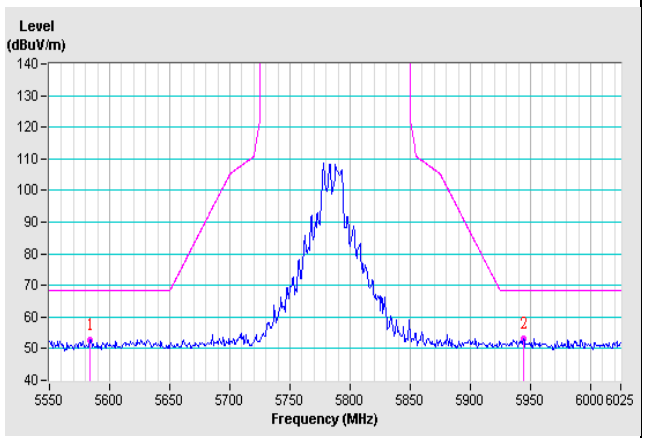
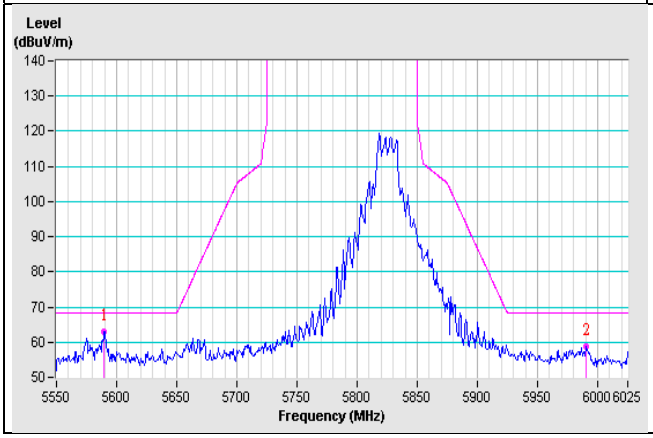
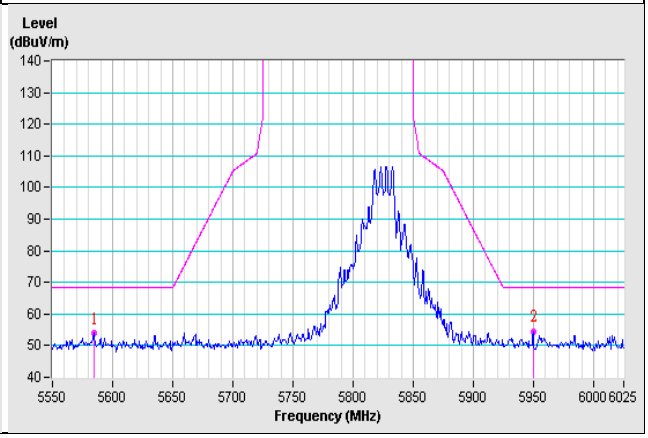
CH155	
Horizontal	Vertical
	

Radio 2 - 4TX with Dipole antenna CDD Mode

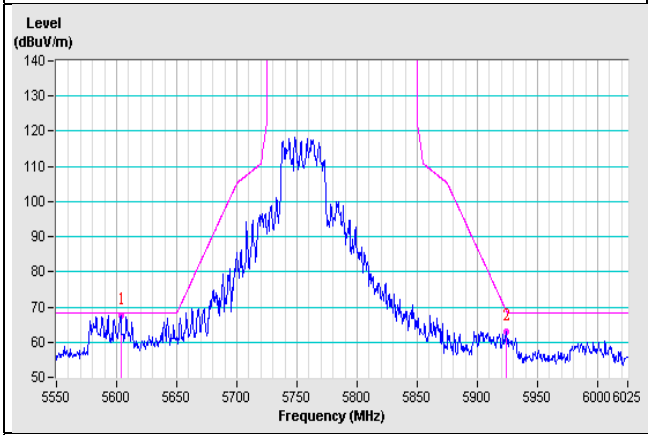
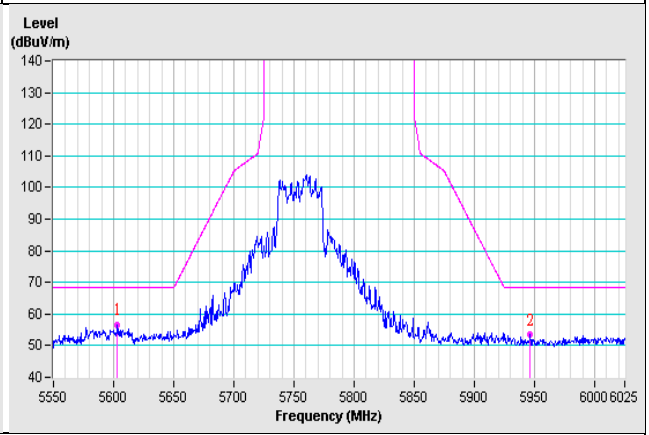
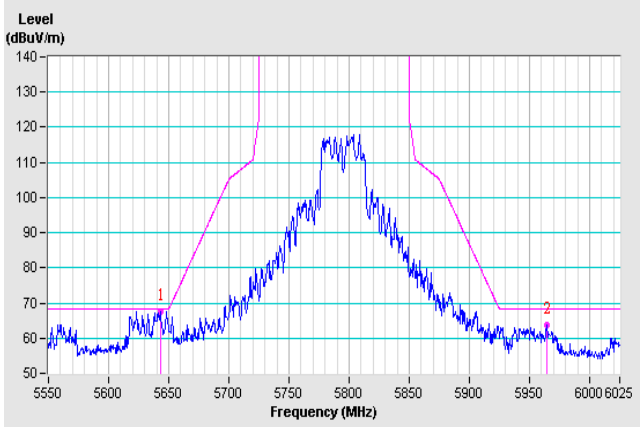
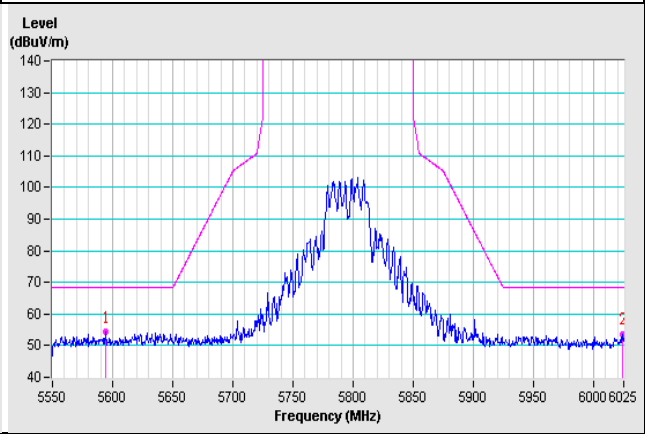
802.11a

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

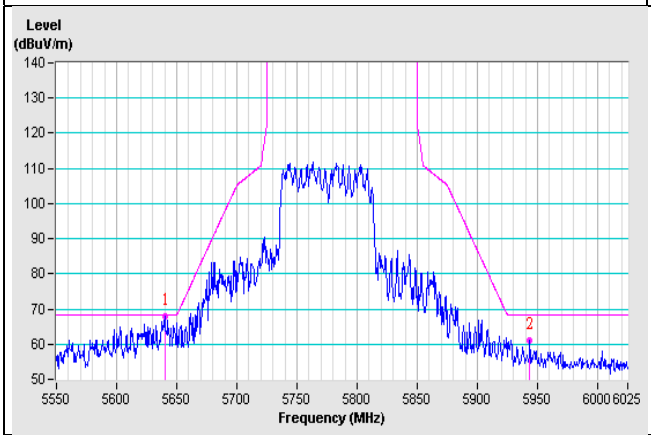
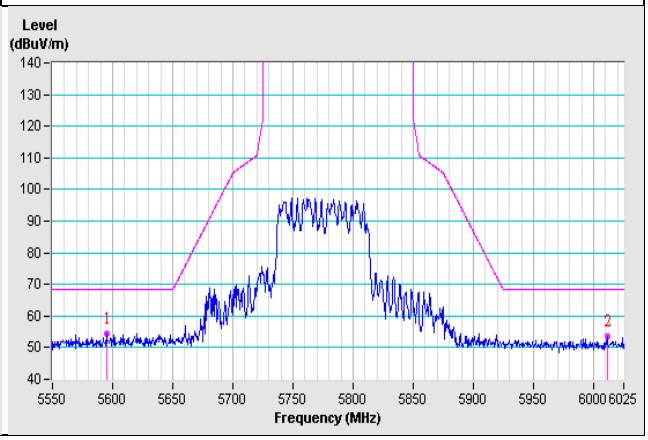
802.11ac (VHT20)

CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

802.11ac (VHT40)

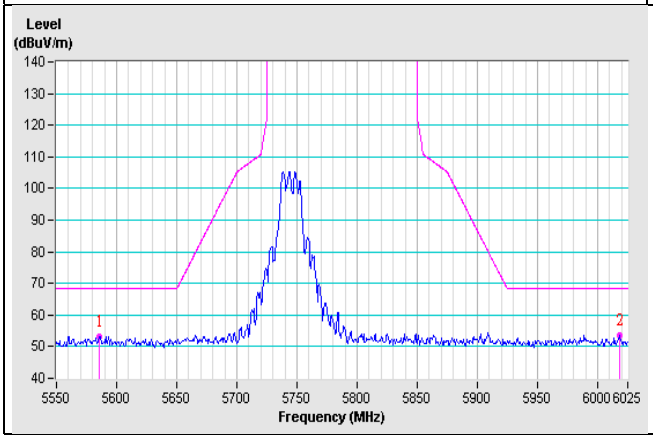
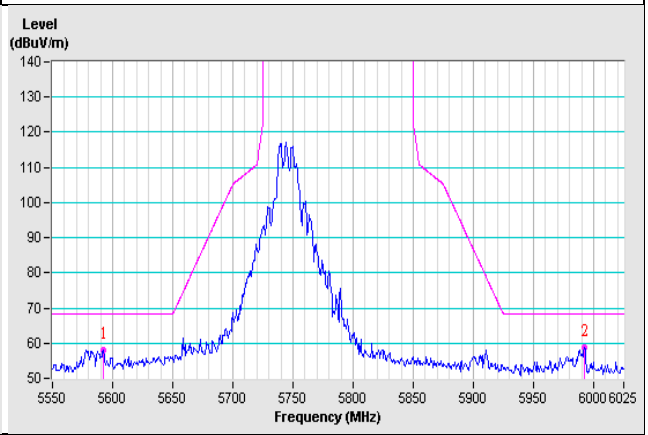
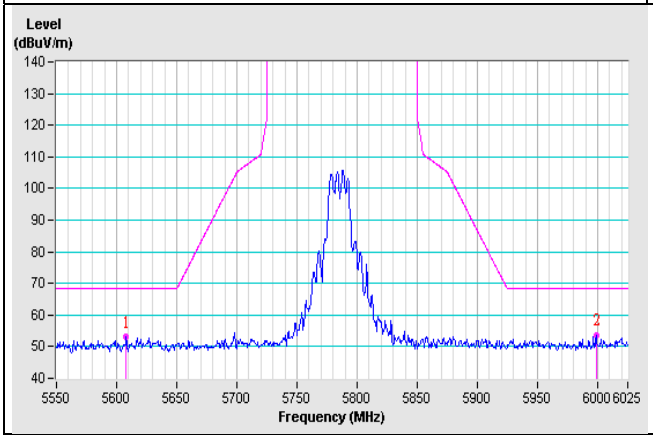
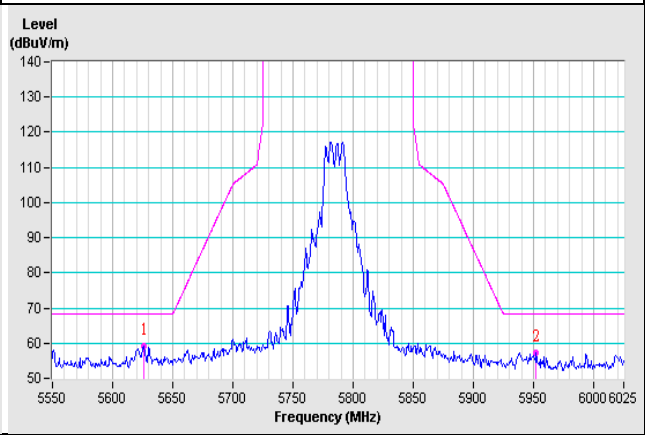
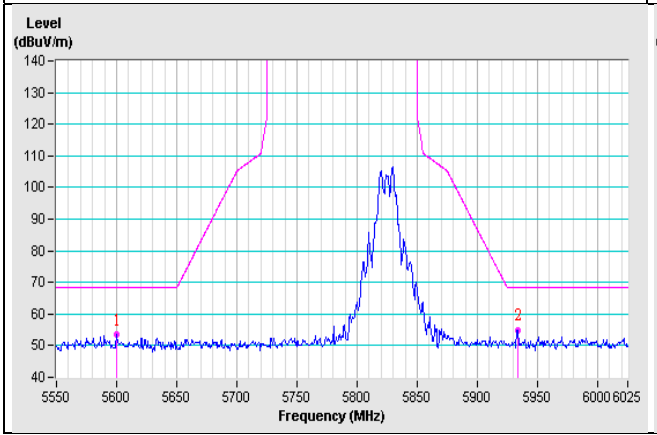
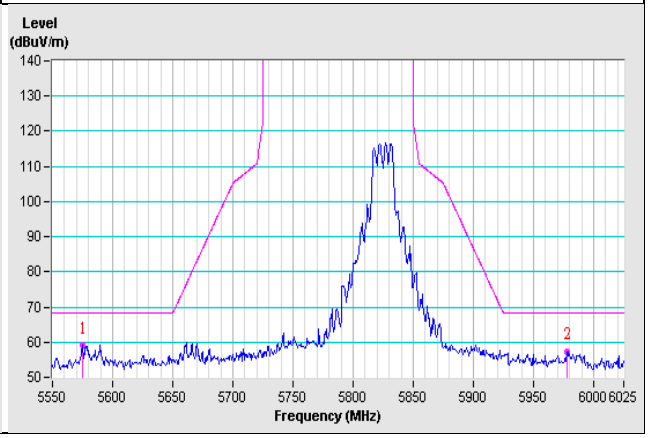
CH151	
Horizontal	Vertical
	
CH159	
Horizontal	Vertical
	

802.11ac (VHT80)

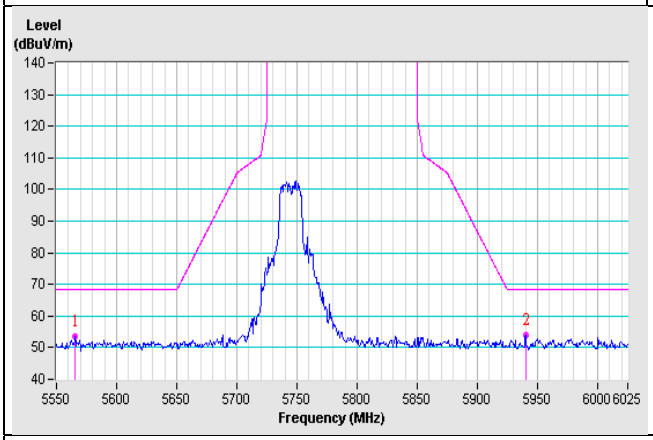
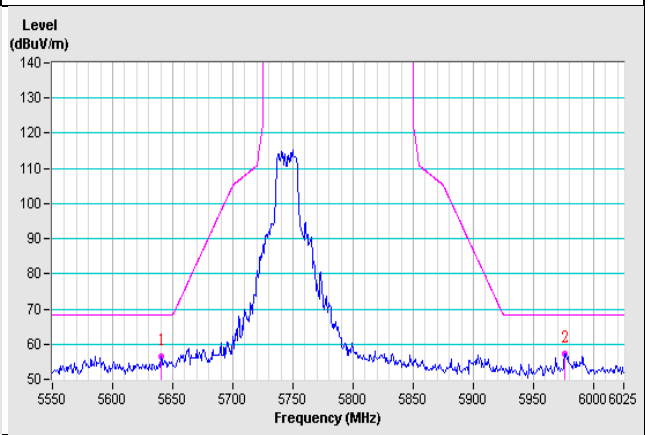
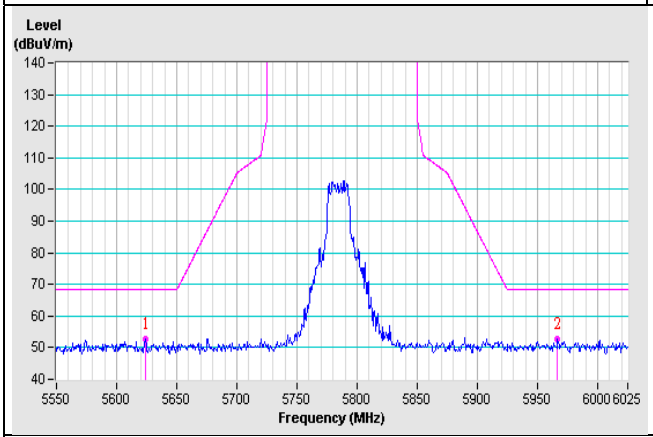
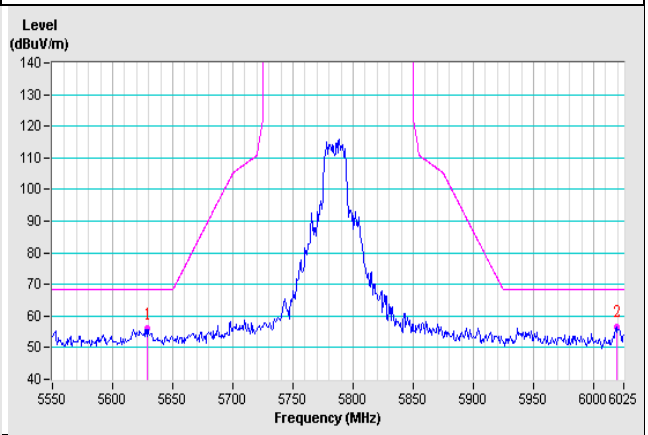
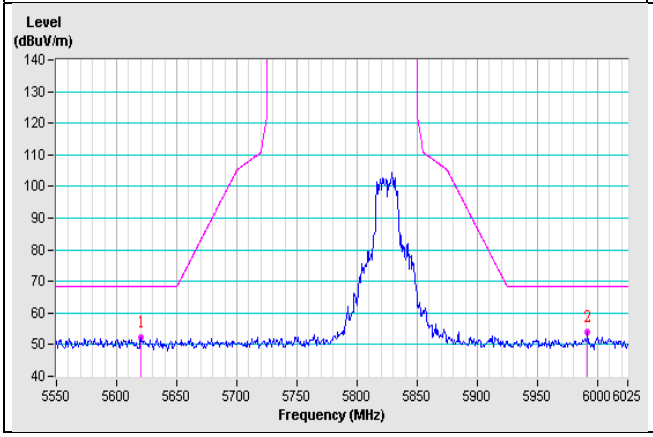
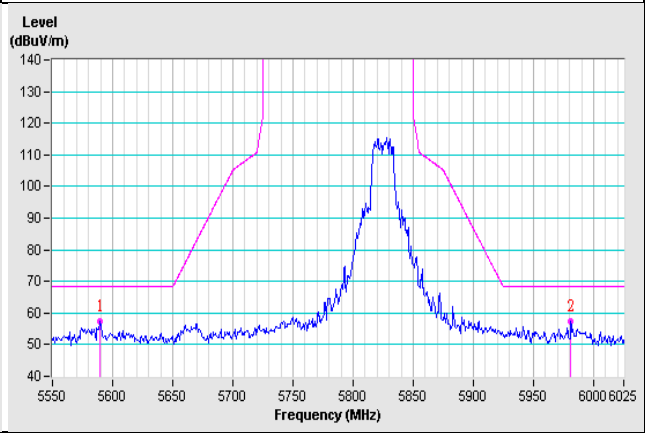
CH155	
Horizontal	Vertical
	

Radio 2 - 2TX with PIFA antenna CDD Mode

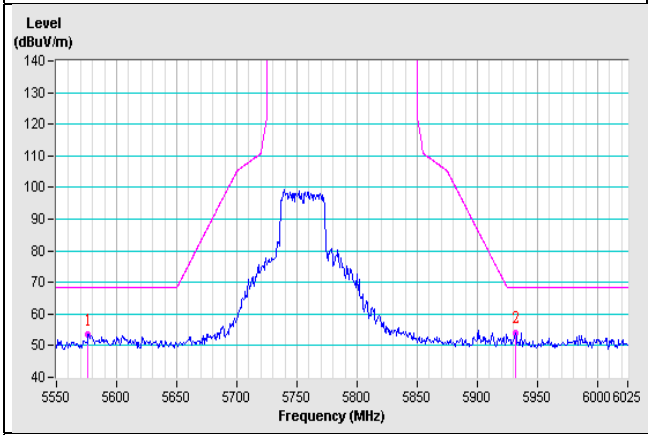
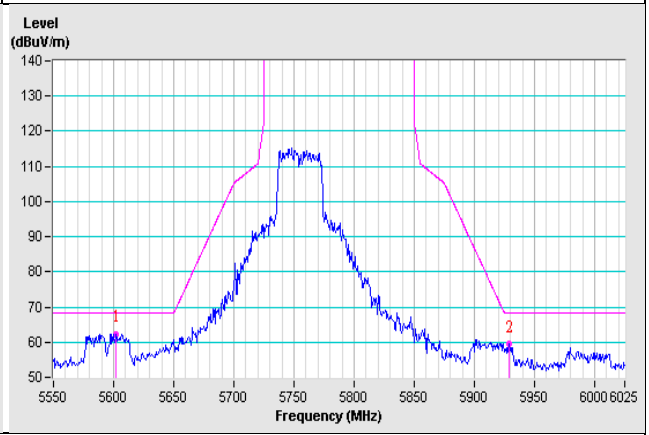
802.11a

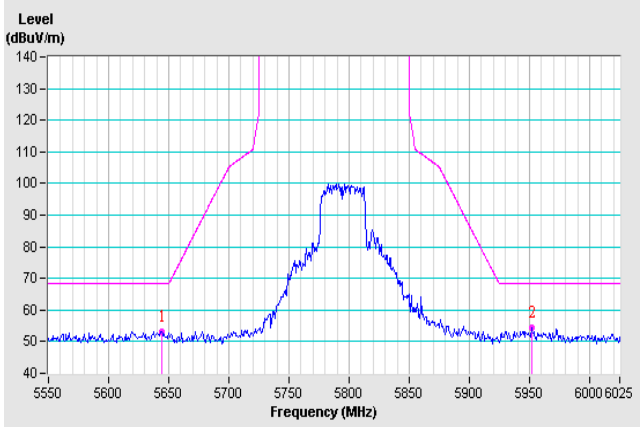
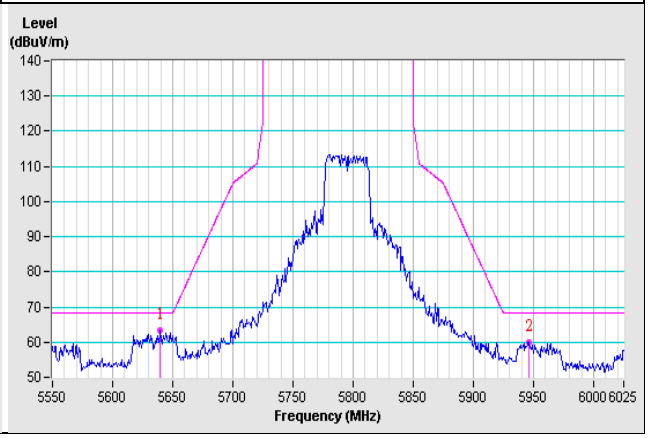
CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

802.11ac (VHT20)

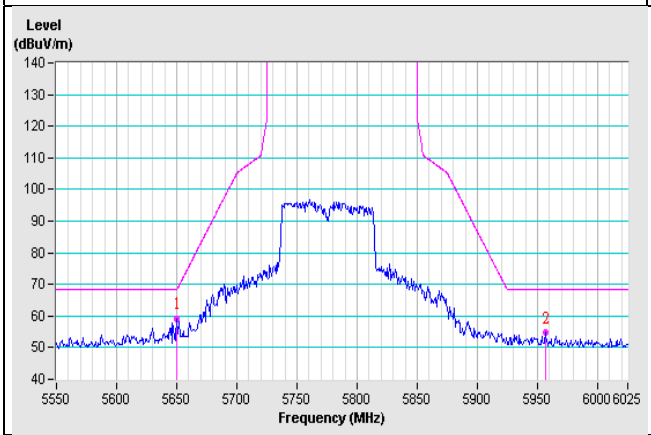
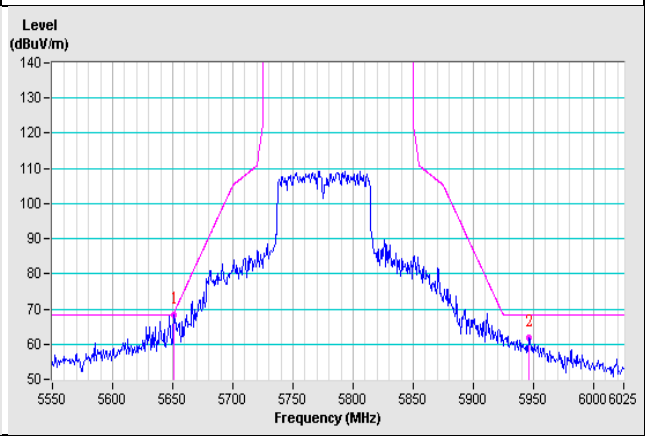
CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

802.11ac (VHT40)

CH151	
Horizontal	Vertical
	

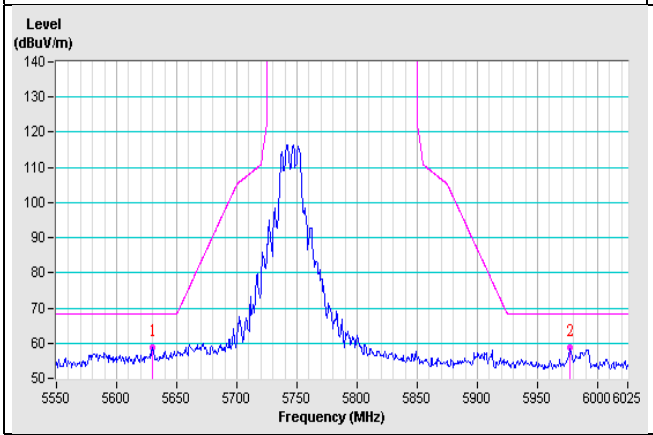
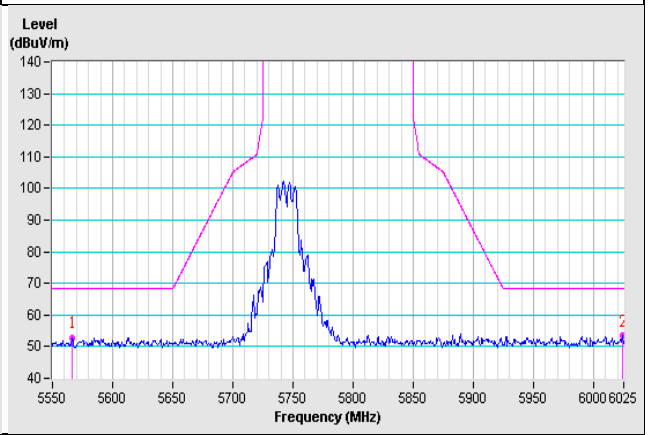
CH159	
Horizontal	Vertical
	

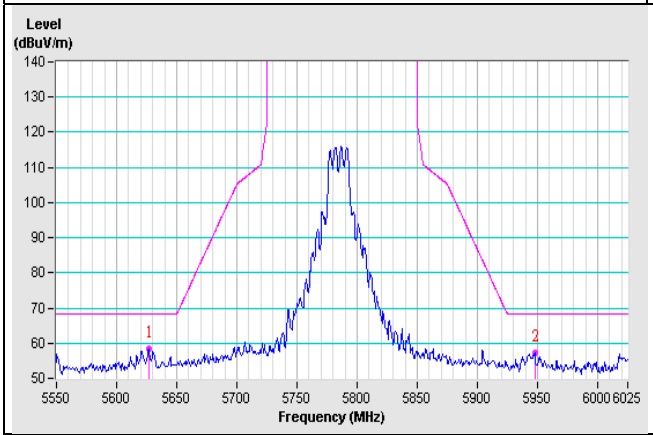
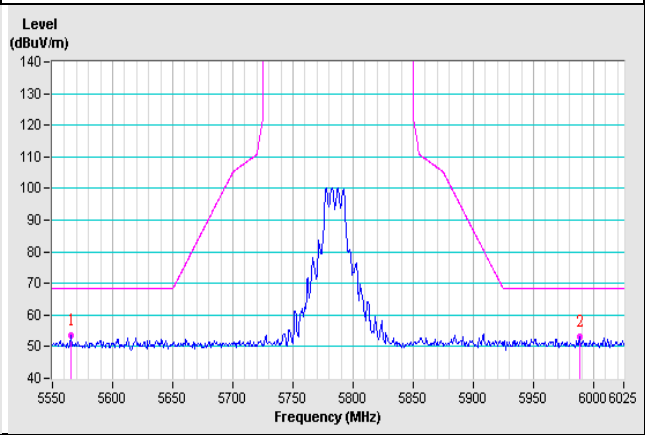
802.11ac (VHT80)

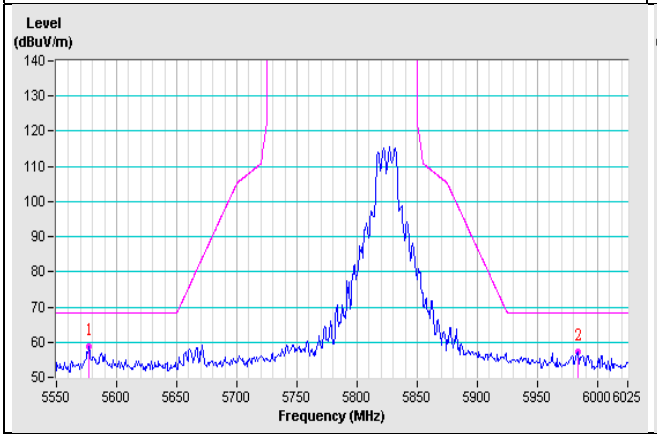
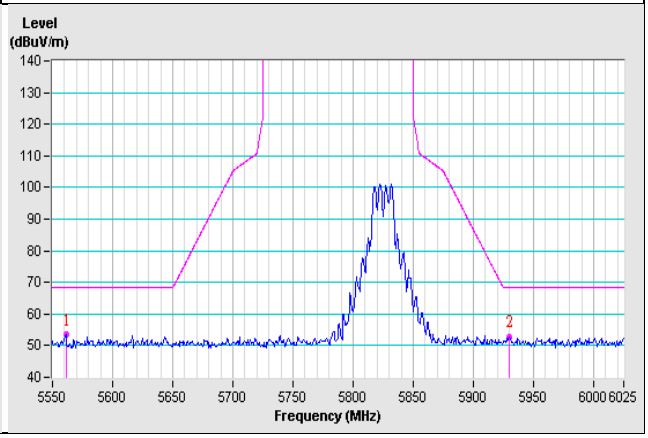
CH155	
Horizontal	Vertical
	

Radio 2 - 2TX with Dipole antenna CDD Mode

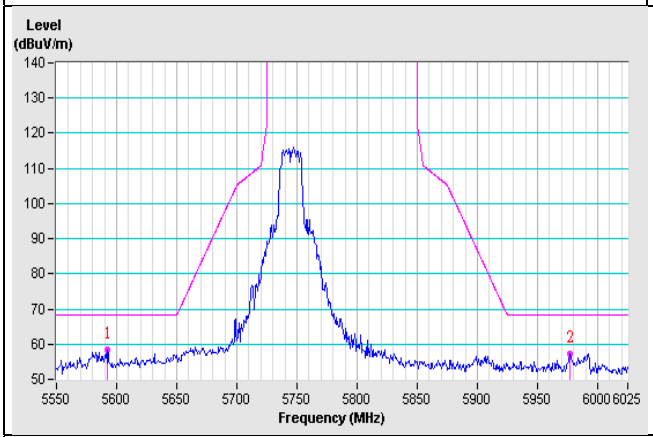
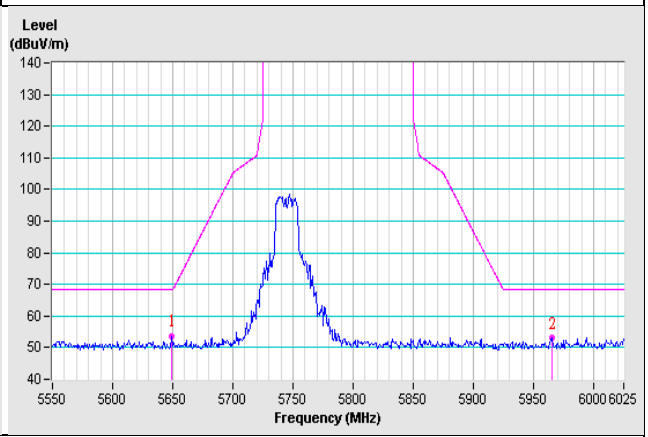
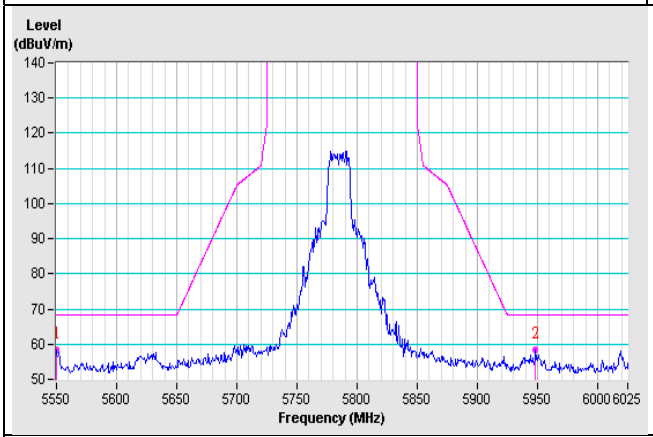
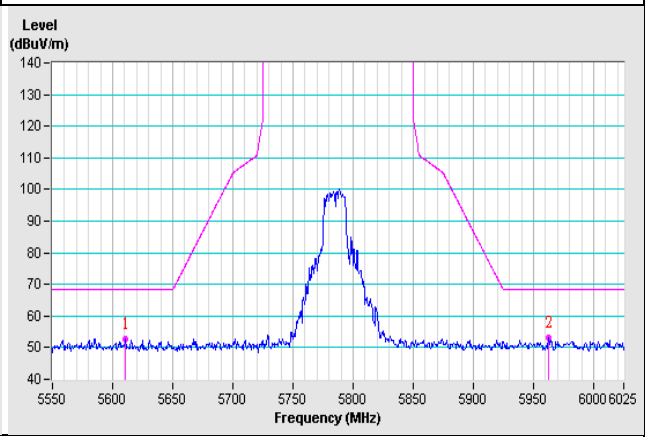
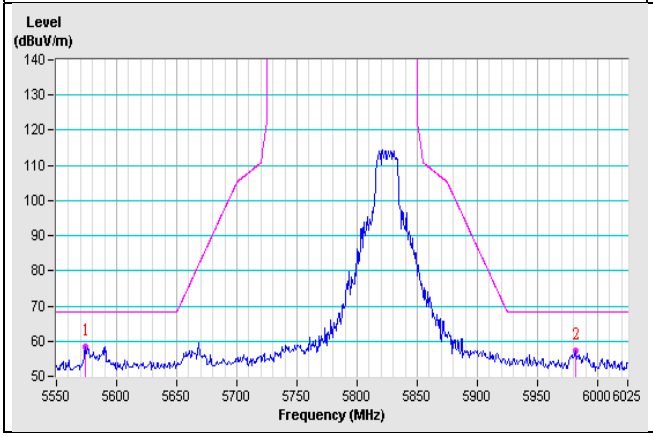
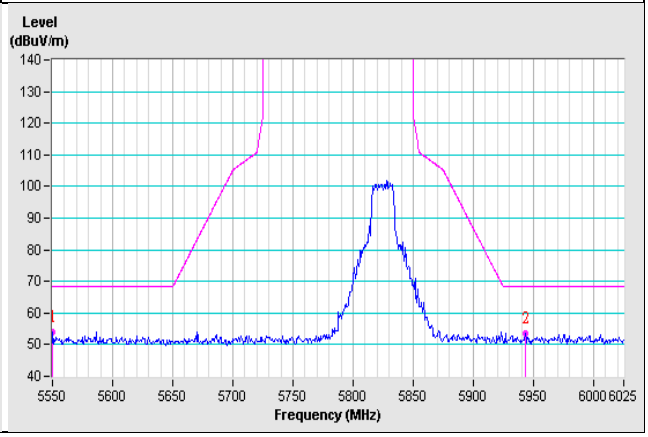
802.11a

CH149	
Horizontal	Vertical
	

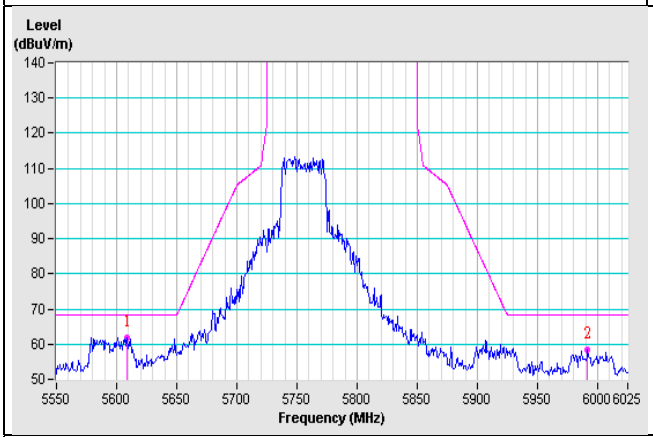
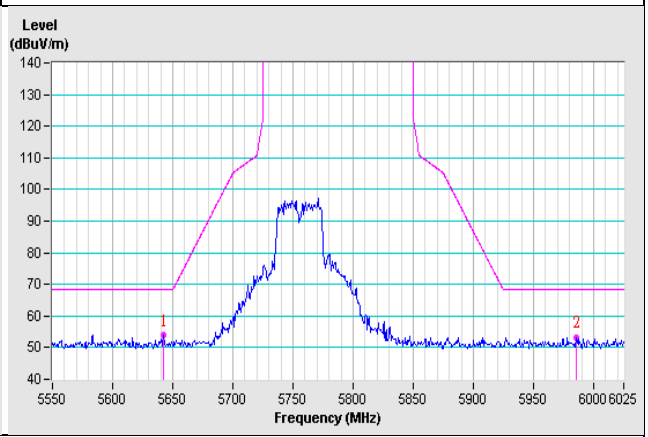
CH157	
Horizontal	Vertical
	

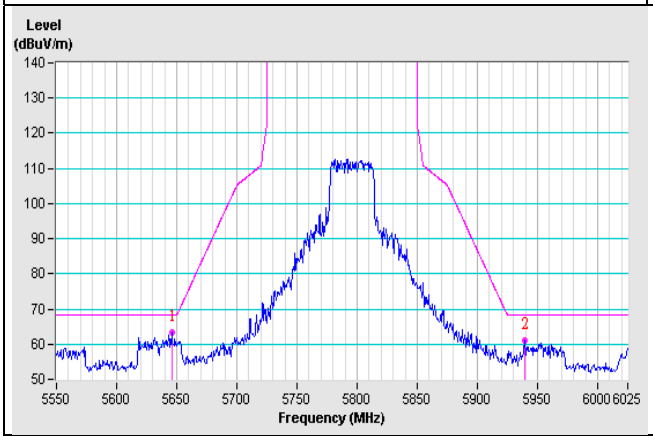
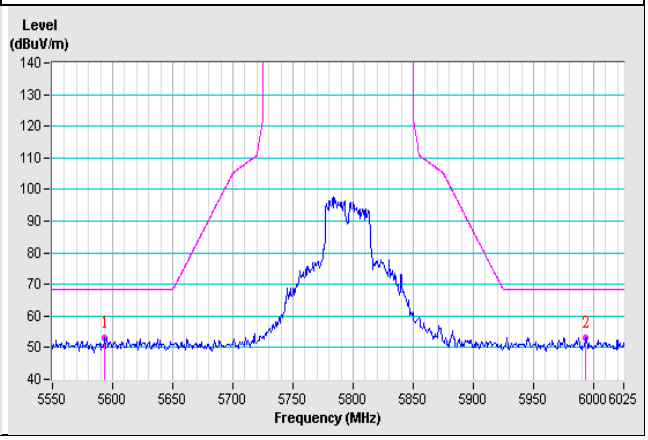
CH165	
Horizontal	Vertical
	

802.11ac (VHT20)

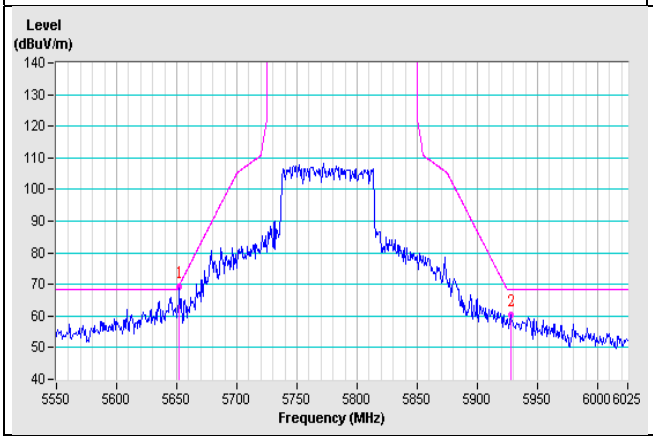
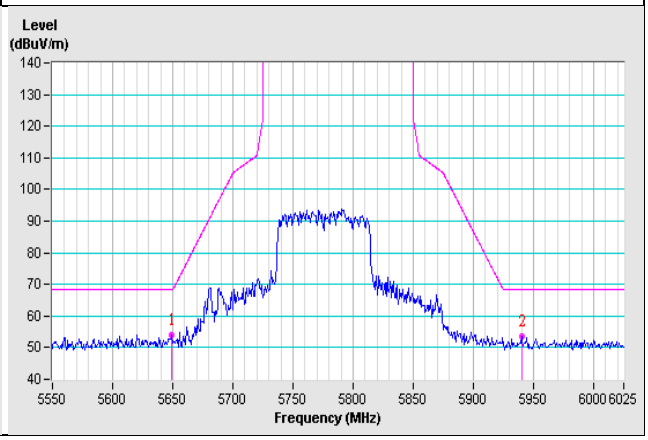
CH149	
Horizontal	Vertical
	
CH157	
Horizontal	Vertical
	
CH165	
Horizontal	Vertical
	

802.11ac (VHT40)

CH151	
Horizontal	Vertical
	

CH159	
Horizontal	Vertical
	

802.11ac (VHT80)

CH155	
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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Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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

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