FCC Test Report

Report No.: RF170417C09C

FCC ID: 2AKCZ-0C1

Test Model: APL42-0C1

Received Date: Oct. 02, 2017

Test Date: Oct. 11 ~ Nov. 17, 2017

Issued Date: Dec. 01, 2017

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FCC Registration / Designation Number: 788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
RF170417C09C	Original release	Dec. 01, 2017

1 Certificate of Conformity

Product: Wireless Access Point

Brand: SONICWALL

Test Model: APL42-0C1

Sample Status: Engineering sample

Applicant: SonicWall Inc.

Test Date: Oct. 11 ~ Nov. 17, 2017

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 : _____ , **Date:** Dec. 01, 2017
Pettie Chen / Senior Specialist

Approved by : _____ , **Date:** Dec. 01, 2017
Ken Liu / Senior 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 -6.27dB at 0.18953MHz.
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 -1.0dB at 5350.00, 5470.00MHz.
15.407(a) (1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a) (1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	For Dipole antenna: Antenna connector is N-TYPE not a standard connector. For Sector antenna: Antenna connector is N-jack not a standard connector. For Panel antenna: Antenna connector is N-jack not a standard connector.

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	2.94 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.86 dB
	200MHz ~1000MHz	3.87 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wireless Access Point
Brand	SONICWALL
Test Model	APL42-0C1
Status of EUT	Engineering sample
Power Supply Rating	48-55Vdc (PoE)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 600.0Mbps 802.11ac: up to 1733Mbps
Operating Frequency	5260 ~ 5320MHz, 5500 ~ 5700MHz
Number of Channel	5260 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500 ~ 5700MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 11 802.11n (HT40), 802.11ac (VHT40): 5 802.11ac (VHT80): 2
Output Power	Refer to Note
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	1.8m non-shielded ground cable without core
Data Cable Supplied	0.7m non-shielded antenna cable without core

Note:

1. This report is prepared for FCC class II permissive change. The differences compared with the original report (BV ADT report no.: RF170417C09-1 & RF170417C09B-1) is adding 5.26GHz to 5.32GHz & 5.50GHz to 5.70GHz by software.

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

5GHz Band			
Modulation Mode	TX Function	Beamforming	Remark
802.11a	4TX	Not Support	Radio 2
802.11n (HT20)	4TX	Support	
802.11n (HT40)	4TX	Support	
802.11ac (VHT20)	4TX	Support	
802.11ac (VHT40)	4TX	Support	
802.11ac (VHT80)	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)

* For 802.11n and 802.11ac, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

3. The EUT consumes power from the following PoE (support unit only).

Adapter for PoE	
Brand	Powertron Electronics Corp.
Model	PA1040-480IB080
Input Power	100-240Vac~50-60Hz 1.5A
Output Power	48Vdc, 0.8A 38.4W Max
Power Line	1.55m non-shielded cable with one core

PoE (support unit only)	
Brand	EnGenius
Model	EPE-48GR
Output Power	48Vdc, 1.25A maximum

4. The following antennas were provided to the EUT.

	Antenna Model	Freq. Range	Type	Con nector	Gain (dBi)										Remark
					2400	2450	2500	5150	5250	5350	5500	5600	5725	5850	
1	D121-05	2.4G	Dipole	N-TYPE	4.1	4.2	4.5	-	-	-	-	-	-	-	Radio 1 (WLAN 2.4G:4TX)
2	D151-07	5G	Dipole	N-TYPE	-	-	-	6.3	6.3	5.4	5.0	5.1	5.2	5.1	Radio 2 (WLAN 5G:4TX)
					Ant.1			Ant.2		Ant.3			Ant.4		
3	S124-12	2.4G	Sector	N-jack	12.60			12.00		12.30			12.10		Radio 1 (WLAN 2.4G:4TX)
4	S154-15	5G	Sector	N-jack	14.10			14.60		13.81			13.23		Radio 2 (WLAN 5G:4TX)
					2400-2500MHz					5150-5850MHz					
5	P254-07	2.4G/5G	Panel	N-jack	Ant. 5	Ant. 6	Ant. 7	Ant. 8		Ant. 1	Ant. 2	Ant. 3	Ant. 4		Radio 1 (WLAN 2.4G:4TX)/ Radio 2 (WLAN 5G:4TX)
					7.33	8.62	7.58	7.83		10.03	10.16	10.23	10.16		
6	P254-13	2.4G/5G	Panel	N-jack	Ant. 1	Ant. 2	Ant. 3	Ant. 4		Ant. 5	Ant. 6	Ant. 7	Ant. 8		
					11.72	12.91	12.77	11.93		14.48	13.49	13.51	14.26		
7	P254-09	2.4G/5G	Panel	N-jack	Ant. 1	Ant. 2	Ant. 3	Ant. 4		Ant. 5	Ant. 6	Ant. 7	Ant. 8		
					8.9	9.4	9.4	8.9		10.4	9.7	9.7	10.4		
8	P124-10	2.4G	Panel	N-jack	9.7	9.6	9.6	9.7		-	-	-	-		Radio 1 (WLAN 2.4G:4TX)
					5150 MHz	5250 MHz	5350 MHz	5450 MHz		5550 MHz	5650 MHz	5750 MHz	5850 MHz		
9	P154-12	5G	Panel	N-jack	12.51	12.58	12.78	12.53		12.50	12.69	11.91	11.48		Radio 2 (WLAN 5G:4TX)
					2400-2500 MHz										
10	Scanning Antenna	2.4G	PIFA	IPEX	3.15										Radio 3 (WLAN 2.4G: 1TX)
11	BLE Antenna	2.4G	PIFA	IPEX	3.37										Radio 4 (BTLE)

*For Panel antenna: Item 5, 6 were chosen for the final tests.

*The power of item 7, 8 were following item 6.

5. Output Power as below.

Output Power (mW)				
Antenna Type	CDD Mode		Beamforming Mode	
	5260 ~ 5320MHz	5500 ~ 5700MHz	5260 ~ 5320MHz	5500 ~ 5700MHz
Dipole	74.264	73.312	18.578	18.323
Sector	27.876	34.188	6.966	8.551
Panel (Model: P254-07)	80.565	50.753	20.137	12.677
Panel (Model: P254-13)	33.517	32.226	8.375	8.054
Panel (Model: P254-09)	77.770	56.567	19.454	14.158
Panel (Model: P154-12)	34.071	34.188	8.511	8.551

6. 2.4GHz, 5GHz and BT LE technology can transmit at same time.
7. Spurious emission of the simultaneous operation (2.4GHz, 5GHz and BT LE) has been evaluated and no non-compliance was found.
8. The power settings are list as below.

Radio 2: Dipole antenna						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 52	12	11	CH 54	13.5	CH 58	11
CH 60	12	11	CH 62	13.5	CH 106	10
CH 64	11.5	11	CH 102	13	CH 122	10
CH 100	10.5	11	CH 110	13.5		
CH 116	10.5	11	CH 134	13.5		
CH 140	10.5	11				

Radio 2: Sector antenna						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 52	3	3.5	CH 54	6.5	CH 58	9.5
CH 60	3	3.5	CH 62	6.5	CH 106	9.5
CH 64	3	3.5	CH 102	6.5	CH 122	10
CH 100	3	3.5	CH 110	6.5		
CH 116	3	3.5	CH 134	6.5		
CH 140	3	3.5				

Radio 2: Panel antenna (Model: P254-07)						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 52	8.5	9	CH 54	12.5	CH 58	13.5
CH 60	8.5	9	CH 62	12.5	CH 106	11.5
CH 64	8.5	9	CH 102	12.5	CH 122	11.5
CH 100	8.5	9	CH 110	12.5		
CH 116	8.5	9	CH 134	12.5		
CH 140	8.5	9				

Radio 2: Panel antenna (Model: P254-13)						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 52	3.5	4	CH 54	7	CH 58	9.5
CH 60	3.5	4	CH 62	7	CH 106	9.5
CH 64	3.5	4	CH 102	7	CH 122	9.5
CH 100	3.5	4	CH 110	7		
CH 116	3.5	4	CH 134	7		
CH 140	3.5	4				

Radio 2: Panel antenna (Model: P254-09)						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 52	7.5	8	CH 54	11	CH 58	13.5
CH 60	7.5	8	CH 62	11	CH 106	10.5
CH 64	7.5	8	CH 102	11.5	CH 122	10.5
CH 100	8	8.5	CH 110	11.5		
CH 116	8	8.5	CH 134	11.5		
CH 140	8	8.5				

Radio 2: Panel antenna (Model: P154-12)						
	802.11a	802.11n (HT20)		802.11n (HT40)		802.11ac (VHT80)
CH 52	6	7	CH 54	10.5	CH 58	10
CH 60	6	7	CH 62	10.5	CH 106	10
CH 64	6	7	CH 102	10.5	CH 122	10
CH 100	6	7	CH 110	10.5		
CH 116	6	7	CH 134	10.5		
CH 140	6	7				

3.2 Description of Test Modes

For 5260 ~ 5320MHz

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

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

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290 MHz

For 5500 ~ 5700MHz

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

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

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

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

2 channels are provided for 802.11ac (VHT80):

Channel	Frequency	Channel	Frequency
106	5530MHz	122	5610 MHz

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 Dipole antenna
B	√	√	√	√	EUT with Sector antenna
C	√	√	√	√	EUT with Panel antenna (Model: P254-07)
D	√	√	√	√	EUT with Panel antenna (Model: P254-13)
E	√	√	√	√	EUT with Panel antenna (Model: P254-09)
F	√	√	√	√	EUT with Panel antenna (Model: P154-12)

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 3 axis. The worst case was found when positioned on **Z-plane**

Radiated Emission Test (Above 1GHz):

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	Remark
A, B, C, D, E, F	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0	Radio 2 (4TX)
A, B, C, D, E, F	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5	Radio 2 (4TX)
A, B, C, D, E, F	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	13.5	Radio 2 (4TX)
A, B, C, D, E, F	802.11ac (VHT80)		58	58	OFDM	BPSK	117	Radio 2 (4TX)
A, B, C, D, E, F	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0	Radio 2 (4TX)
A, B, C, D, E, F	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	6.5	Radio 2 (4TX)
A, B, C, D, E, F	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	13.5	Radio 2 (4TX)
A, B, C, D, E, F	802.11ac (VHT80)		106 to 122	106, 122	OFDM	BPSK	117	Radio 2 (4TX)

Radiated Emission Test (Below 1GHz):

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	Remark
A, B, C, D, E, F	802.11a	5260-5320, 5500-5700	52 to 64 100 to 140	60	OFDM	BPSK	6.0	Radio 2 (4TX)

Power Line Conducted Emission Test:

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	Remark
A, B, C, D, E, F	802.11a	5260-5320, 5500-5700	52 to 64 100 to 140	60	OFDM	BPSK	6.0	Radio 2 (4TX)

Antenna Port Conducted Measurement:

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

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)	Remark
A, B, C, D, E, F	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0	Radio 2 (4TX)
A, B, C, D, E, F	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	6.5	Radio 2 (4TX)
A, B, C, D, E, F	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	13.5	Radio 2 (4TX)
A, B, C, D, E, F	802.11ac (VHT80)		58	58	OFDM	BPSK	117	Radio 2 (4TX)
A, B, C, D, E, F	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0	Radio 2 (4TX)
A, B, C, D, E, F	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	6.5	Radio 2 (4TX)
A, B, C, D, E, F	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	13.5	Radio 2 (4TX)
A, B, C, D, E, F	802.11ac (VHT80)		106 to 122	106, 122	OFDM	BPSK	117	Radio 2 (4TX)

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	23deg. C, 69%RH	120Vac, 60Hz	Jones Chang, Willy Cheng
RE<1G	23deg. C, 69%RH	120Vac, 60Hz	Willy Cheng
PLC	25deg. C, 75%RH	120Vac, 60Hz	Chris Lin, Jones Chang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Chris Lin

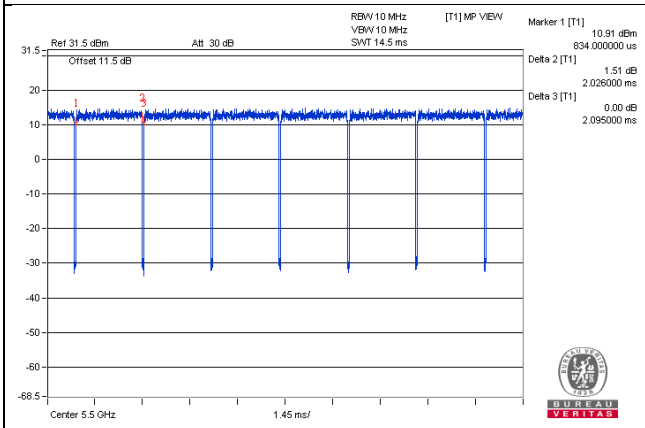
3.3 Duty Cycle of Test Signal

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

Test Mode A

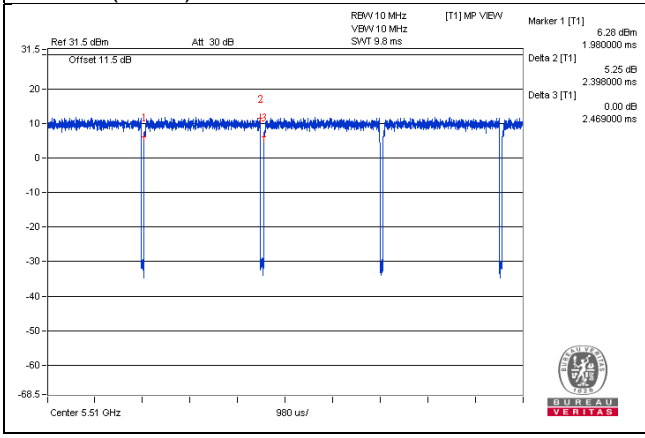
802.11a: Duty cycle = 2.026/2.095 = 0.967, Duty factor = 10 * log(1/0.967) = 0.15
802.11n (HT20): Duty cycle = 4.93/5.023 = 0.981
802.11n (HT40): Duty cycle = 2.398/2.469 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13
802.11ac (VHT80): Duty cycle = 1.129/1.199 = 0.942, Duty factor = 10 * log(1/0.942) = 0.26

802.11a



802.11n (HT20)

802.11n (HT40)

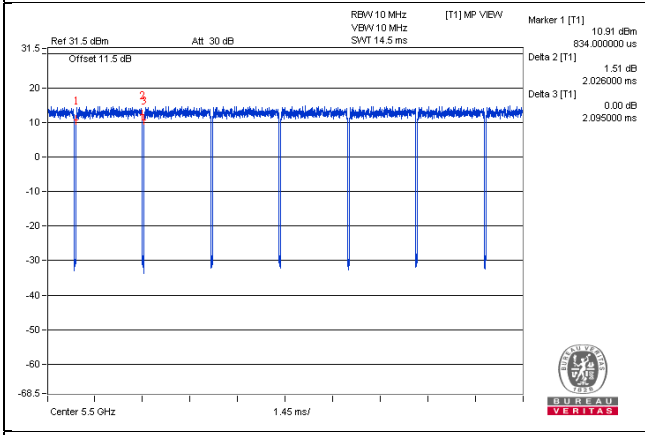


802.11ac (VHT80)

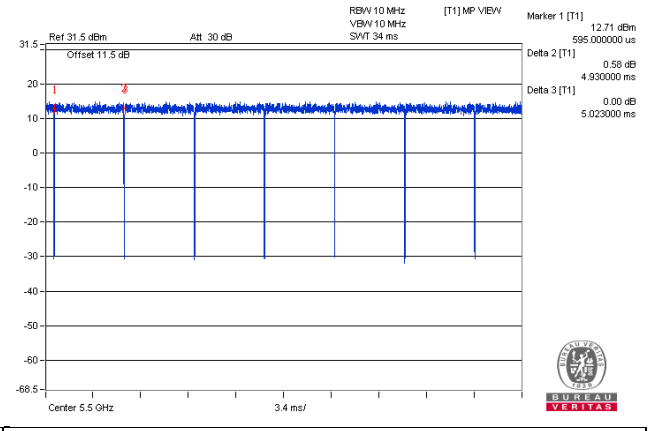
Test Mode B

802.11a: Duty cycle = 2.026/2.095 = 0.967, Duty factor = 10 * log(1/0.967) = 0.15
802.11n (HT20): Duty cycle = 4.930/5.023 = 0.981
802.11n (HT40): Duty cycle = 2.398/2.469 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13
802.11ac (VHT80): Duty cycle = 1.129/1.199 = 0.942, Duty factor = 10 * log(1/0.942) = 0.26

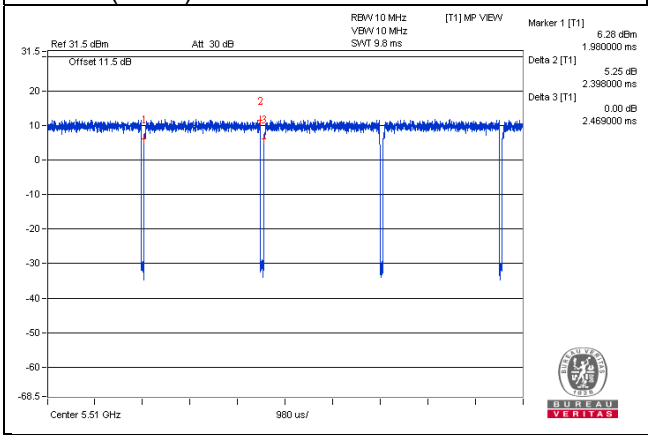
802.11a



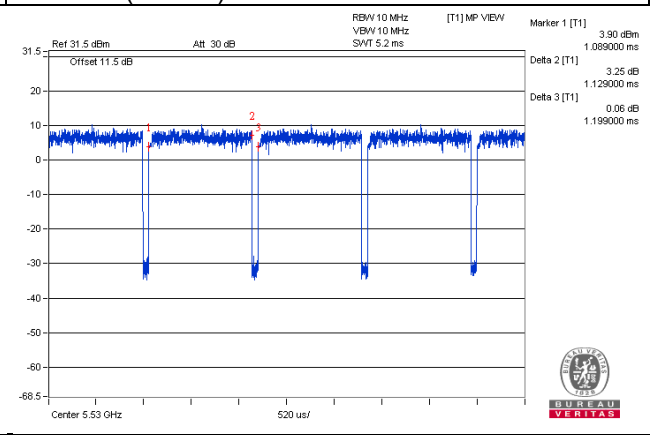
802.11n (HT20)



802.11n (HT40)



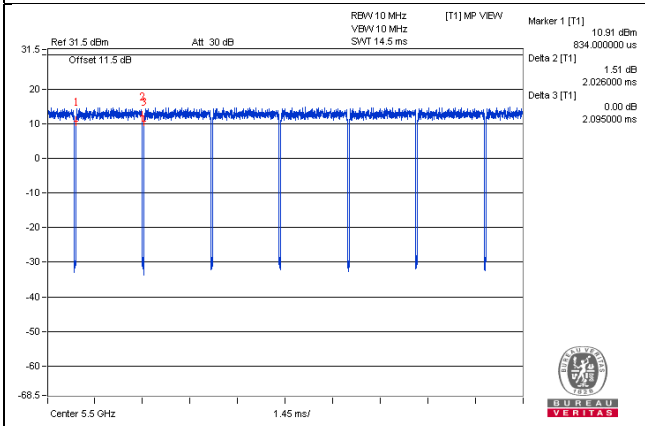
802.11ac (VHT80)



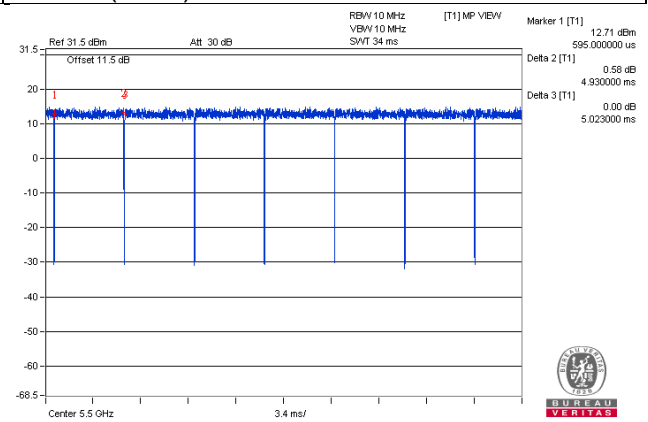
Test Mode C

802.11a: Duty cycle = 2.026/2.095 = 0.967, Duty factor = 10 * log(1/0.967) = 0.15
802.11n (HT20): Duty cycle = 4.930/5.023 = 0.981
802.11n (HT40): Duty cycle = 2.398/2.469 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13
802.11ac (VHT80): Duty cycle = 1.129/1.199 = 0.942, Duty factor = 10 * log(1/0.942) = 0.26

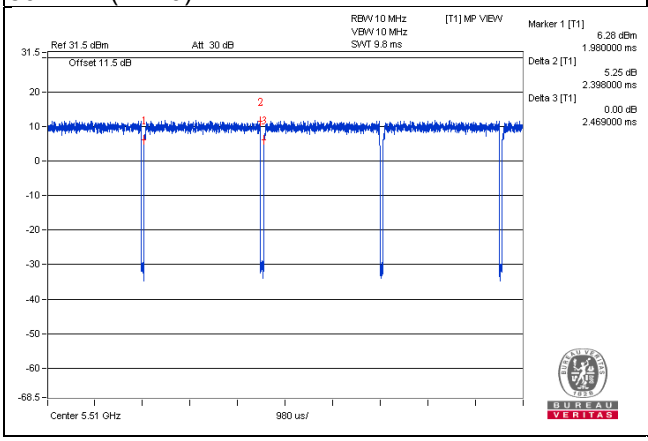
802.11a



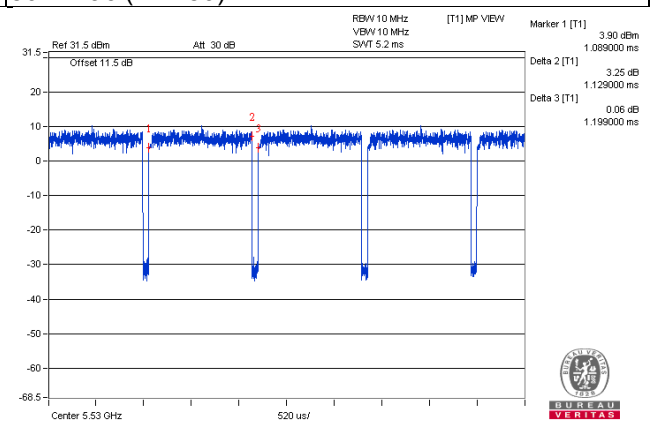
802.11n (HT20)



802.11n (HT40)



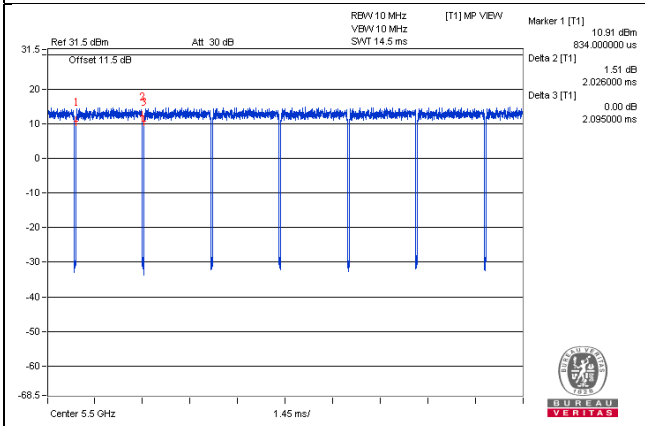
802.11ac (VHT80)



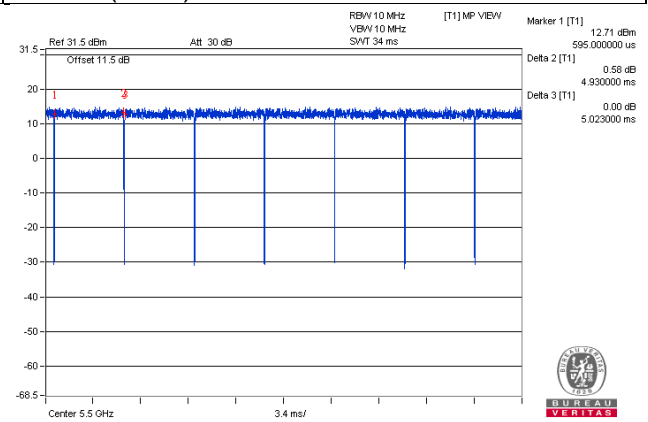
Test Mode D

802.11a: Duty cycle = 2.026/2.095 = 0.967, Duty factor = 10 * log(1/0.967) = 0.15
802.11n (HT20): Duty cycle = 4.930/5.023 = 0.981
802.11n (HT40): Duty cycle = 2.398/2.469 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13
802.11ac (VHT80): Duty cycle = 1.129/1.199 = 0.942, Duty factor = 10 * log(1/0.942) = 0.26

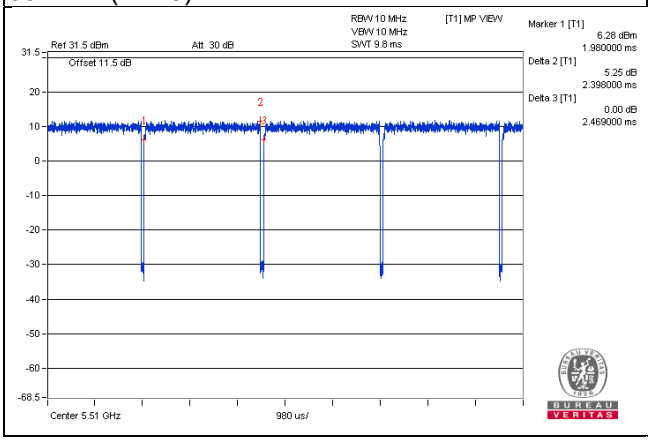
802.11a



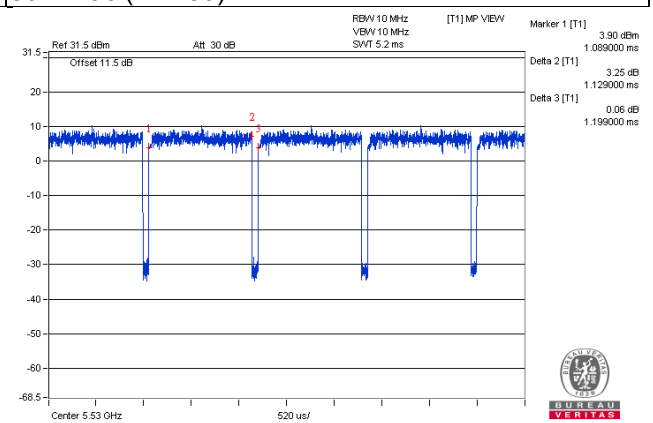
802.11n (HT20)



802.11n (HT40)



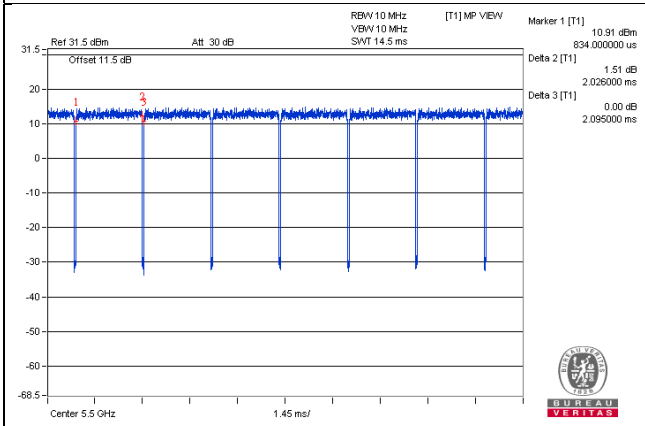
802.11ac (VHT80)



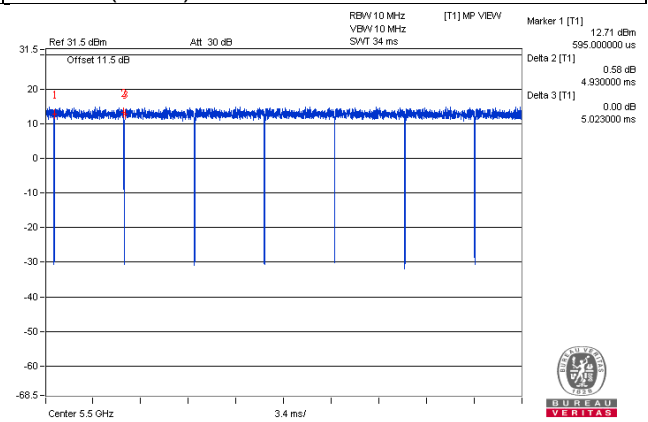
Test Mode E

802.11a: Duty cycle = 2.026/2.095 = 0.967, Duty factor = 10 * log(1/0.967) = 0.15
802.11n (HT20): Duty cycle = 4.93/5.023 = 0.981
802.11n (HT40): Duty cycle = 2.398/2.469 = 0.971, Duty factor = 10 * log(1/0.971) = 0.13
802.11ac (VHT80): Duty cycle = 1.129/1.199 = 0.942, Duty factor = 10 * log(1/0.942) = 0.26

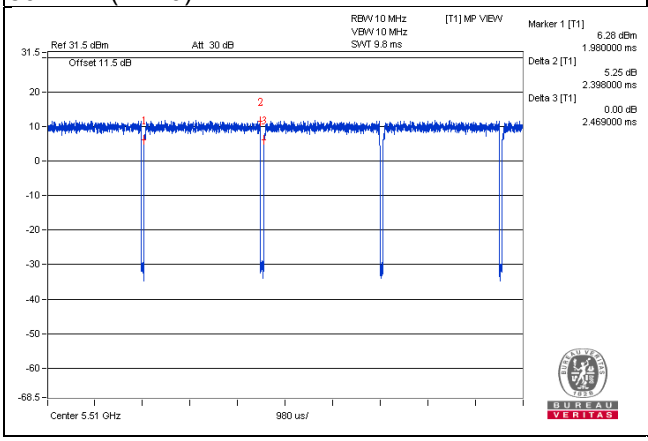
802.11a



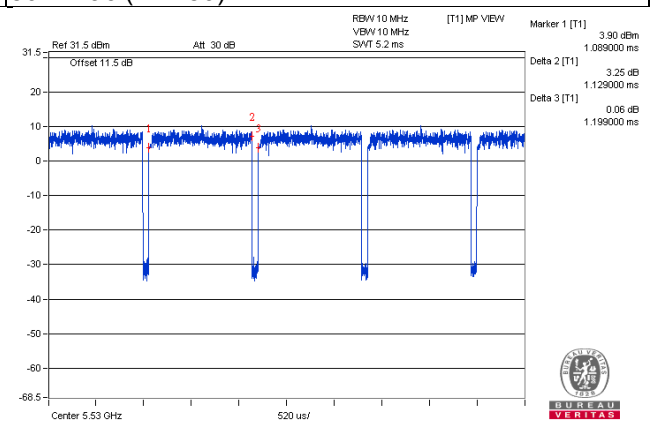
802.11n (HT20)



802.11n (HT40)



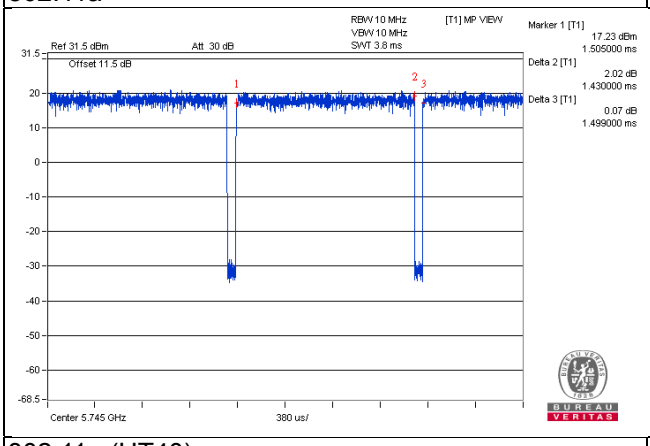
802.11ac (VHT80)



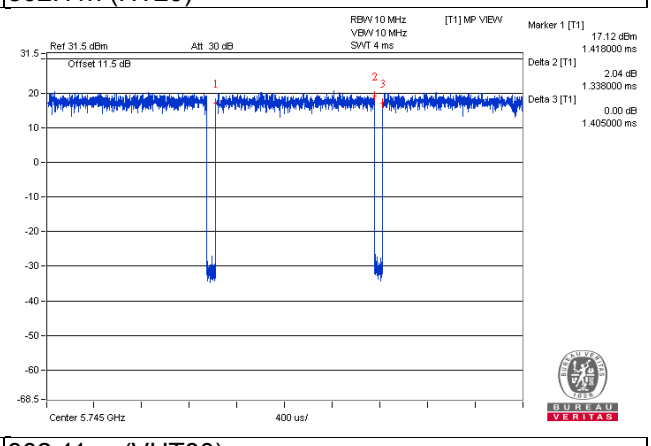
Test Mode F

802.11a: Duty cycle = 1.43/1.499 = 0.954, Duty factor = 10 * log(1/0.954) = 0.20
802.11n (HT20): Duty cycle = 1.338/1.405 = 0.952, Duty factor = 10 * log(1/0.952) = 0.21
802.11n (HT40): Duty cycle = 0.662/0.739 = 0.896, Duty factor = 10 * log(1/0.896) = 0.48
802.11ac (VHT80): Duty cycle = 0.332/0.397 = 0.836, Duty factor = 10 * log(1/0.836) = 0.78

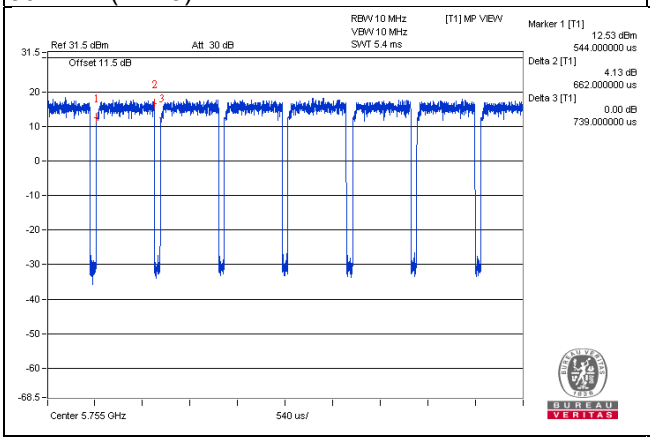
802.11a



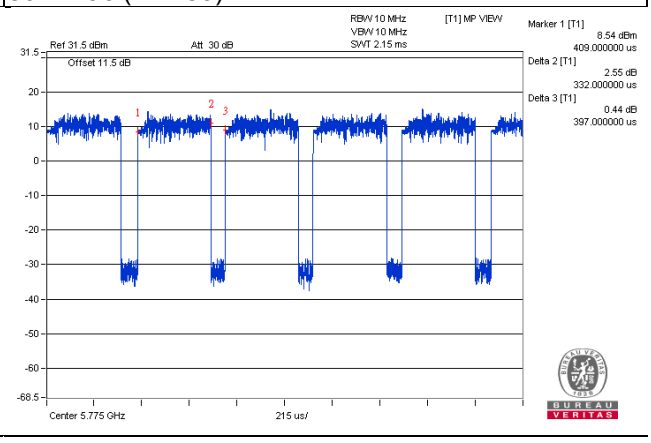
802.11n (HT20)



802.11n (HT40)



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.

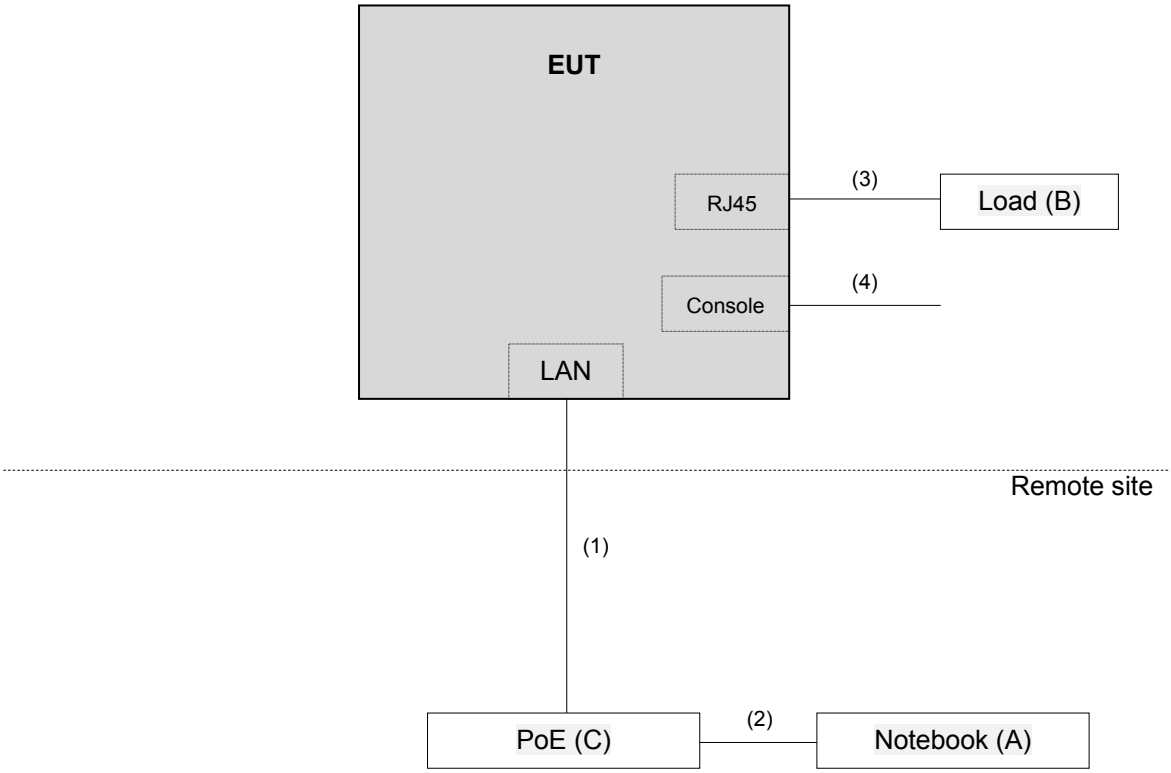
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	Load	NA	NA	NA	NA	-
C.	PoE	EnGenius	EPE-48GR	NA	NA	Provided by manufacturer

Note:

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45 cable	1	10	N	0	-
2.	RJ45 cable	1	3	N	0	-
3.	RJ45 cable	1	1.8	N	0	-
4.	Console cable	1	1.8	N	0	Accessory of EUT

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

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

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General UNII Test Procedure New Rules v02

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

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

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

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

Limits of unwanted emission out of the restricted bands

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules v02			Field Strength at 3m	
			PK:74 (dBμV/m)	AV:54 (dBμV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☐	15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

*1 beyond 75 MHz or more above of the band edge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 02, 2017	May 01, 2018
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Aug. 18, 2017	Aug. 17, 2018
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Dec. 28, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	9120D	209	Dec. 27, 2016	Dec. 26, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Dec. 14, 2016	Dec. 13, 2017
Loop Antenna EMCI	EM-6879	269	Aug. 11, 2017	Aug. 10, 2018
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 21, 2017	Aug. 20, 2018
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Apr. 05, 2017	Apr. 04, 2018
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 21, 2017	Aug. 20, 2018
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-SM- 8000	Cable-CH3-03 (309224+170907)	Sep.11, 2017	Sep. 10, 2018
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	0824012	Aug. 18, 2017	Aug. 17, 2018
Power Sensor	MA2411B	0738171	Aug. 18, 2017	Aug. 17, 2018
26GHz ~ 40GHz Amplifier	EMC 012645	980115	Oct. 21, 2016	Oct. 20, 2017
			Oct. 20, 2017	Oct. 19, 2018

Note:
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
5. The IC Site Registration No. is IC 7450F-3.

4.1.3 Test Procedures

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. Both X and Y axes of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

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

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

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

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

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

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

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

Note:

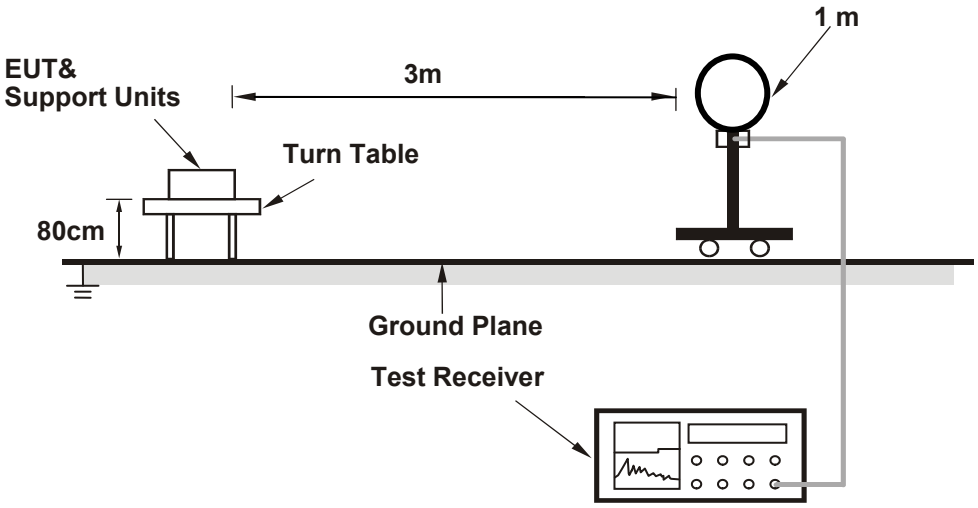
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

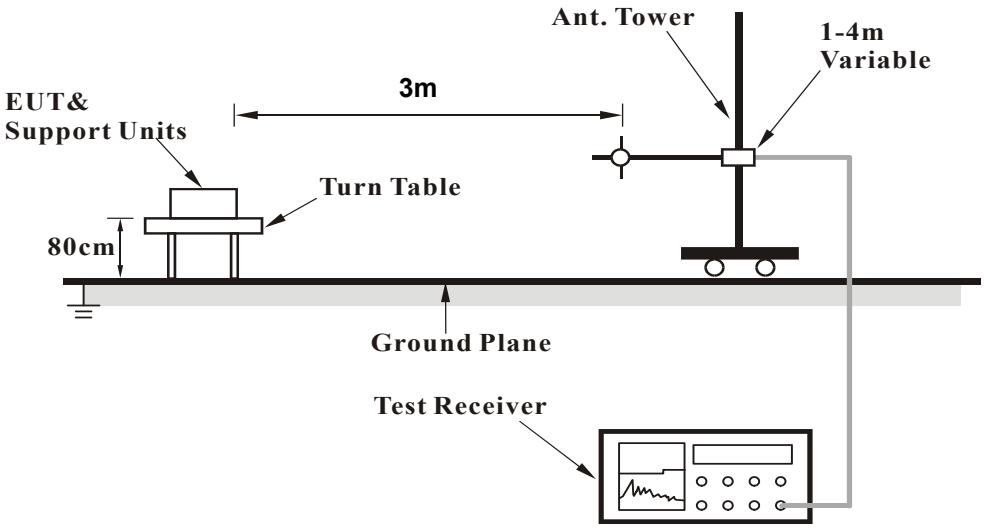
No deviation.

4.1.5 Test Setup

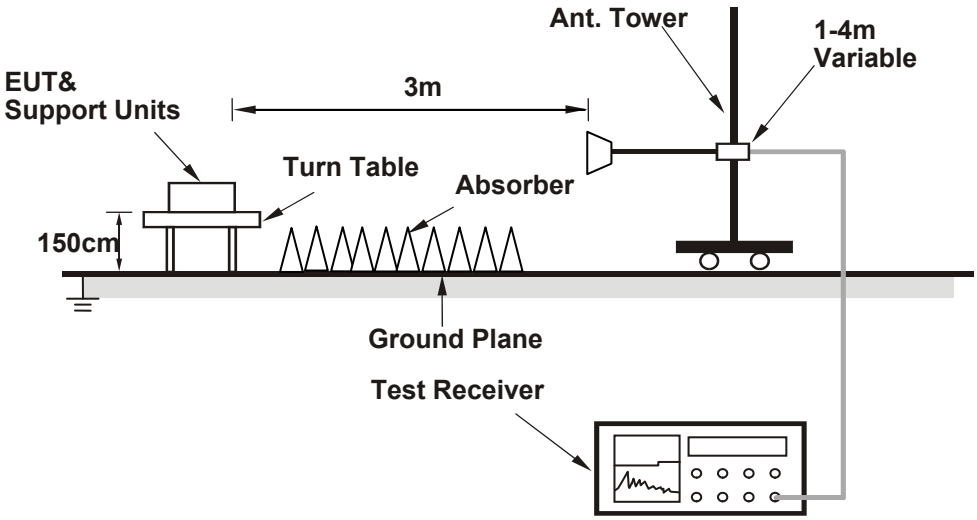
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

a. Placed the EUT on the testing table.
b. Prepared a notebook to act as a 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 (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
d. The communication partner sent data to EUT by command "PING".

4.1.7 Test Results

Above 1GHz Worst-Case Data:

Test Mode A

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.2 PK	74.0	-18.8	1.50 H	260	51.6	3.6
2	5150.00	43.7 AV	54.0	-10.3	1.50 H	260	40.1	3.6
3	*5260.00	105.6 PK			1.48 H	304	66.0	39.6
4	*5260.00	95.5 AV			1.48 H	304	55.9	39.6
5	#10520.00	59.2 PK	74.0	-14.8	1.60 H	251	42.2	17.0
6	#10520.00	46.1 AV	54.0	-7.9	1.60 H	251	29.1	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	2.02 V	29	54.5	3.6
2	5150.00	45.9 AV	54.0	-8.1	2.02 V	29	42.3	3.6
3	*5260.00	124.8 PK			2.00 V	352	85.2	39.6
4	*5260.00	114.4 AV			2.00 V	352	74.8	39.6
5	#10520.00	60.0 PK	74.0	-14.0	2.20 V	317	43.0	17.0
6	#10520.00	46.9 AV	54.0	-7.1	2.20 V	317	29.9	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	106.1 PK			1.59 H	318	66.5	39.6
2	*5300.00	95.4 AV			1.59 H	318	55.8	39.6
3	10600.00	59.5 PK	74.0	-14.5	1.90 H	93	42.4	17.1
4	10600.00	46.6 AV	54.0	-7.4	1.90 H	93	29.5	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	125.6 PK			1.78 V	349	86.0	39.6
2	*5300.00	114.9 AV			1.78 V	349	75.3	39.6
3	10600.00	60.3 PK	74.0	-13.7	1.98 V	20	43.2	17.1
4	10600.00	47.5 AV	54.0	-6.5	1.98 V	20	30.4	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	104.4 PK			1.72 H	317	64.7	39.7
2	*5320.00	93.8 AV			1.72 H	317	54.1	39.7
3	5350.00	56.5 PK	74.0	-17.5	1.55 H	321	52.6	3.9
4	5350.00	45.3 AV	54.0	-8.7	1.55 H	321	41.4	3.9
5	10640.00	59.0 PK	74.0	-15.0	1.98 H	67	41.7	17.3
6	10640.00	46.1 AV	54.0	-7.9	1.98 H	67	28.8	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	124.3 PK			2.02 V	353	84.6	39.7
2	*5320.00	113.9 AV			2.02 V	353	74.2	39.7
3	5350.00	69.1 PK	74.0	-4.9	2.00 V	327	65.2	3.9
4	5350.00	52.3 AV	54.0	-1.7	2.00 V	327	48.4	3.9
5	10640.00	59.6 PK	74.0	-14.4	2.34 V	289	42.3	17.3
6	10640.00	46.5 AV	54.0	-7.5	2.34 V	289	29.2	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	56.1 PK	74.0	-17.9	1.63 H	222	52.1	4.0
2	5460.00	46.0 AV	54.0	-8.0	1.63 H	222	42.0	4.0
3	#5470.00	57.2 PK	74.0	-16.8	1.65 H	210	53.2	4.0
4	#5470.00	46.9 AV	54.0	-7.1	1.65 H	210	42.9	4.0
5	*5500.00	102.3 PK			1.62 H	208	62.3	40.0
6	*5500.00	91.8 AV			1.62 H	208	51.8	40.0
7	11000.00	60.9 PK	74.0	-13.1	1.92 H	177	41.9	19.0
8	11000.00	48.0 AV	54.0	-6.0	1.92 H	177	29.0	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	58.9 PK	74.0	-15.1	1.63 V	339	54.9	4.0
2	5460.00	46.7 AV	54.0	-7.3	1.63 V	339	42.7	4.0
3	#5470.00	65.8 PK	74.0	-8.2	2.04 V	18	61.8	4.0
4	#5470.00	52.6 AV	54.0	-1.4	2.04 V	18	48.6	4.0
5	*5500.00	122.1 PK			1.84 V	9	82.1	40.0
6	*5500.00	111.8 AV			1.84 V	9	71.8	40.0
7	11000.00	61.3 PK	74.0	-12.7	2.17 V	14	42.3	19.0
8	11000.00	48.5 AV	54.0	-5.5	2.17 V	14	29.5	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	105.1 PK			1.73 H	208	65.0	40.1
2	*5580.00	95.1 AV			1.73 H	208	55.0	40.1
3	11160.00	61.3 PK	74.0	-12.7	1.93 H	199	42.6	18.7
4	11160.00	48.4 AV	54.0	-5.6	1.93 H	199	29.7	18.7
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	*5580.00	124.1 PK			1.79 V	3	84.0	40.1
2	*5580.00	114.1 AV			1.79 V	3	74.0	40.1
3	11160.00	62.2 PK	74.0	-11.8	1.77 V	24	43.5	18.7
4	11160.00	49.6 AV	54.0	-4.4	1.77 V	24	30.9	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.3 PK			1.57 H	206	66.0	40.3
2	*5700.00	96.1 AV			1.57 H	206	55.8	40.3
3	#5725.00	58.1 PK	74.0	-15.9	1.60 H	208	53.6	4.5
4	#5725.00	46.9 AV	54.0	-7.1	1.60 H	208	42.4	4.5
5	11400.00	60.5 PK	74.0	-13.5	1.97 H	196	42.3	18.2
6	11400.00	47.3 AV	54.0	-6.7	1.97 H	196	29.1	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	121.2 PK			1.80 V	18	80.9	40.3
2	*5700.00	111.4 AV			1.80 V	18	71.1	40.3
3	#5725.00	67.9 PK	74.0	-6.1	1.76 V	352	63.4	4.5
4	#5725.00	52.3 AV	54.0	-1.7	1.76 V	352	47.8	4.5
5	11400.00	61.0 PK	74.0	-13.0	2.22 V	37	42.8	18.2
6	11400.00	48.0 AV	54.0	-6.0	2.22 V	37	29.8	18.2

Remark:

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

802.11n (HT20)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.1 PK	74.0	-17.9	1.60 H	310	52.5	3.6
2	5150.00	44.7 AV	54.0	-9.3	1.60 H	310	41.1	3.6
3	*5260.00	106.7 PK			1.62 H	307	67.1	39.6
4	*5260.00	96.2 AV			1.62 H	307	56.6	39.6
5	#10520.00	58.9 PK	74.0	-15.1	1.55 H	290	41.9	17.0
6	#10520.00	46.2 AV	54.0	-7.8	1.55 H	290	29.2	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.6 PK	74.0	-15.4	1.70 V	321	55.0	3.6
2	5150.00	46.0 AV	54.0	-8.0	1.70 V	321	42.4	3.6
3	*5260.00	125.3 PK			1.69 V	347	85.7	39.6
4	*5260.00	114.5 AV			1.69 V	347	74.9	39.6
5	#10520.00	59.8 PK	74.0	-14.2	2.00 V	44	42.8	17.0
6	#10520.00	46.8 AV	54.0	-7.2	2.00 V	44	29.8	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	106.8 PK			1.86 H	315	67.2	39.6
2	*5300.00	96.2 AV			1.86 H	315	56.6	39.6
3	10600.00	59.6 PK	74.0	-14.4	1.50 H	15	42.5	17.1
4	10600.00	46.6 AV	54.0	-7.4	1.50 H	15	29.5	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	125.0 PK			1.66 V	349	85.4	39.6
2	*5300.00	113.9 AV			1.66 V	349	74.3	39.6
3	10600.00	60.0 PK	74.0	-14.0	1.86 V	310	42.9	17.1
4	10600.00	47.2 AV	54.0	-6.8	1.86 V	310	30.1	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	106.2 PK			1.40 H	313	66.5	39.7
2	*5320.00	95.6 AV			1.40 H	313	55.9	39.7
3	5350.00	55.6 PK	74.0	-18.4	1.50 H	359	51.7	3.9
4	5350.00	44.5 AV	54.0	-9.5	1.50 H	359	40.6	3.9
5	10640.00	59.0 PK	74.0	-15.0	1.69 H	11	41.7	17.3
6	10640.00	46.0 AV	54.0	-8.0	1.69 H	11	28.7	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	124.3 PK			1.87 V	347	84.6	39.7
2	*5320.00	113.6 AV			1.87 V	347	73.9	39.7
3	5350.00	65.5 PK	74.0	-8.5	2.07 V	10	61.6	3.9
4	5350.00	52.4 AV	54.0	-1.6	2.07 V	10	48.5	3.9
5	10640.00	59.4 PK	74.0	-14.6	2.01 V	310	42.1	17.3
6	10640.00	46.6 AV	54.0	-7.4	2.01 V	310	29.3	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	55.1 PK	74.0	-18.9	1.66 H	220	51.1	4.0
2	5460.00	44.0 AV	54.0	-10.0	1.66 H	220	40.0	4.0
3	#5470.00	56.8 PK	74.0	-17.2	1.65 H	218	52.8	4.0
4	#5470.00	45.7 AV	54.0	-8.3	1.65 H	218	41.7	4.0
5	*5500.00	103.8 PK			1.58 H	197	63.8	40.0
6	*5500.00	93.4 AV			1.58 H	197	53.4	40.0
7	11000.00	61.3 PK	74.0	-12.7	1.98 H	190	42.3	19.0
8	11000.00	48.5 AV	54.0	-5.5	1.98 H	190	29.5	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.2 PK	74.0	-14.8	1.65 V	336	55.2	4.0
2	5460.00	47.8 AV	54.0	-6.2	1.65 V	336	43.8	4.0
3	#5470.00	66.3 PK	74.0	-7.7	2.04 V	20	62.3	4.0
4	**#5470.00**	**53.0 AV**	**54.0**	**-1.0**	**2.04 V**	**20**	**49.0**	**4.0**
5	*5500.00	122.4 PK			1.80 V	7	82.4	40.0
6	*5500.00	112.0 AV			1.80 V	7	72.0	40.0
7	11000.00	61.6 PK	74.0	-12.4	2.20 V	0	42.6	19.0
8	11000.00	48.9 AV	54.0	-5.1	2.20 V	0	29.9	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	105.9 PK			1.53 H	197	65.8	40.1
2	*5580.00	95.2 AV			1.53 H	197	55.1	40.1
3	11160.00	62.1 PK	74.0	-11.9	1.93 H	187	43.4	18.7
4	11160.00	49.2 AV	54.0	-4.8	1.93 H	187	30.5	18.7
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	*5580.00	123.7 PK			1.78 V	18	83.6	40.1
2	*5580.00	113.1 AV			1.78 V	18	73.0	40.1
3	11160.00	62.9 PK	74.0	-11.1	1.89 V	33	44.2	18.7
4	11160.00	49.9 AV	54.0	-4.1	1.89 V	33	31.2	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	104.3 PK			1.58 H	205	64.0	40.3
2	*5700.00	93.7 AV			1.58 H	205	53.4	40.3
3	#5725.00	60.1 PK	74.0	-13.9	1.80 H	304	55.6	4.5
4	#5725.00	48.3 AV	54.0	-5.7	1.80 H	304	43.8	4.5
5	11400.00	59.9 PK	74.0	-14.1	1.90 H	190	41.7	18.2
6	11400.00	46.9 AV	54.0	-7.1	1.90 H	190	28.7	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	120.2 PK			1.92 V	354	79.9	40.3
2	*5700.00	109.3 AV			1.92 V	354	69.0	40.3
3	#5725.00	65.6 PK	74.0	-8.4	1.78 V	356	61.1	4.5
4	#5725.00	52.3 AV	54.0	-1.7	1.78 V	356	47.8	4.5
5	11400.00	60.4 PK	74.0	-13.6	2.25 V	44	42.2	18.2
6	11400.00	47.2 AV	54.0	-6.8	2.25 V	44	29.0	18.2

Remark:

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

802.11n (HT40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.2 PK	74.0	-16.8	1.75 H	298	53.6	3.6
2	5150.00	45.8 AV	54.0	-8.2	1.75 H	298	42.2	3.6
3	*5270.00	103.1 PK			1.88 H	350	63.5	39.6
4	*5270.00	93.1 AV			1.88 H	350	53.5	39.6
5	#10540.00	58.7 PK	74.0	-15.3	1.59 H	35	41.6	17.1
6	#10540.00	45.8 AV	54.0	-8.2	1.59 H	35	28.7	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.1 PK	74.0	-13.9	1.90 V	325	56.5	3.6
2	5150.00	48.0 AV	54.0	-6.0	1.90 V	325	44.4	3.6
3	*5270.00	120.7 PK			2.04 V	350	81.1	39.6
4	*5270.00	111.2 AV			2.04 V	350	71.6	39.6
5	#10540.00	59.2 PK	74.0	-14.8	2.09 V	303	42.1	17.1
6	#10540.00	46.1 AV	54.0	-7.9	2.09 V	303	29.0	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	102.8 PK			1.85 H	307	63.2	39.6
2	*5310.00	92.9 AV			1.85 H	307	53.3	39.6
3	5350.00	58.7 PK	74.0	-15.3	1.62 H	322	54.8	3.9
4	5350.00	46.5 AV	54.0	-7.5	1.62 H	322	42.6	3.9
5	10620.00	58.6 PK	74.0	-15.4	1.70 H	22	41.3	17.3
6	10620.00	45.5 AV	54.0	-8.5	1.70 H	22	28.2	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	117.4 PK			1.84 V	351	77.8	39.6
2	*5310.00	106.8 AV			1.84 V	351	67.2	39.6
3	5350.00	65.4 PK	74.0	-8.6	1.65 V	327	61.5	3.9
4	**5350.00**	**53.0 AV**	**54.0**	**-1.0**	**1.65 V**	**327**	**49.1**	**3.9**
5	10620.00	58.9 PK	74.0	-15.1	2.09 V	298	41.6	17.3
6	10620.00	45.9 AV	54.0	-8.1	2.09 V	298	28.6	17.3

Remark:

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

CHANNEL	TX Channel 102	DETECTOR 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	5460.00	55.3 PK	74.0	-18.7	2.09 H	177	51.3	4.0
2	5460.00	42.8 AV	54.0	-11.2	2.09 H	177	38.8	4.0
3	#5470.00	56.5 PK	74.0	-17.5	1.99 H	203	52.5	4.0
4	#5470.00	43.5 AV	54.0	-10.5	1.99 H	203	39.5	4.0
5	*5510.00	97.5 PK			1.66 H	171	57.5	40.0
6	*5510.00	87.5 AV			1.66 H	171	47.5	40.0
7	11020.00	60.9 PK	74.0	-13.1	1.79 H	101	42.0	18.9
8	11020.00	47.4 AV	54.0	-6.6	1.79 H	101	28.5	18.9
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	5460.00	56.6 PK	74.0	-17.4	1.66 V	139	52.6	4.0
2	5460.00	45.2 AV	54.0	-8.8	1.66 V	139	41.2	4.0
3	#5470.00	65.2 PK	74.0	-8.8	1.76 V	141	61.2	4.0
4	#5470.00	52.3 AV	54.0	-1.7	1.76 V	141	48.3	4.0
5	*5510.00	116.3 PK			1.72 V	146	76.3	40.0
6	*5510.00	106.5 AV			1.72 V	146	66.5	40.0
7	11020.00	60.7 PK	74.0	-13.3	1.79 V	200	41.8	18.9
8	11020.00	47.6 AV	54.0	-6.4	1.79 V	200	28.7	18.9

Remark:

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	56.5 PK	74.0	-17.5	1.99 H	214	52.5	4.0
2	#5470.00	43.5 AV	54.0	-10.5	1.99 H	214	39.5	4.0
3	*5550.00	104.5 PK			1.76 H	196	64.5	40.0
4	*5550.00	94.5 AV			1.76 H	196	54.5	40.0
5	11100.00	61.5 PK	74.0	-12.5	1.81 H	110	43.0	18.5
6	11100.00	48.0 AV	54.0	-6.0	1.81 H	110	29.5	18.5
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	#5470.00	64.0 PK	74.0	-10.0	1.73 V	139	60.0	4.0
2	#5470.00	51.1 AV	54.0	-2.9	1.73 V	139	47.1	4.0
3	*5550.00	121.5 PK			1.69 V	149	81.5	40.0
4	*5550.00	111.4 AV			1.69 V	149	71.4	40.0
5	11100.00	60.5 PK	74.0	-13.5	1.79 V	203	42.0	18.5
6	11100.00	47.5 AV	54.0	-6.5	1.79 V	203	29.0	18.5

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	104.4 PK			1.51 H	210	64.1	40.3
2	*5670.00	94.0 AV			1.51 H	210	53.7	40.3
3	#5725.00	57.2 PK	74.0	-16.8	1.69 H	199	52.7	4.5
4	#5725.00	44.0 AV	54.0	-10.0	1.69 H	199	39.5	4.5
5	11340.00	60.4 PK	74.0	-13.6	1.66 H	174	42.0	18.4
6	11340.00	47.1 AV	54.0	-6.9	1.66 H	174	28.7	18.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	119.9 PK			1.65 V	172	79.6	40.3
2	*5670.00	109.7 AV			1.65 V	172	69.4	40.3
3	#5725.00	65.5 PK	74.0	-8.5	1.67 V	136	61.0	4.5
4	#5725.00	52.2 AV	54.0	-1.8	1.67 V	136	47.7	4.5
5	11340.00	59.7 PK	74.0	-14.3	1.88 V	199	41.3	18.4
6	11340.00	47.0 AV	54.0	-7.0	1.88 V	199	28.6	18.4

Remark:

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

802.11ac (VHT80)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.5 PK	74.0	-18.5	1.86 H	333	51.9	3.6
2	5150.00	43.8 AV	54.0	-10.2	1.86 H	333	40.2	3.6
3	*5290.00	92.9 PK			1.66 H	348	53.3	39.6
4	*5290.00	83.5 AV			1.66 H	348	43.9	39.6
5	5350.00	56.1 PK	74.0	-17.9	1.84 H	326	52.2	3.9
6	5350.00	44.0 AV	54.0	-10.0	1.84 H	326	40.1	3.9
7	#10580.00	58.2 PK	74.0	-15.8	1.55 H	4	41.0	17.2
8	#10580.00	45.2 AV	54.0	-8.8	1.55 H	4	28.0	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	1.80 V	318	51.5	3.6
2	5150.00	44.0 AV	54.0	-10.0	1.80 V	318	40.4	3.6
3	*5290.00	110.7 PK			1.86 V	350	71.1	39.6
4	*5290.00	100.9 AV			1.86 V	350	61.3	39.6
5	5350.00	65.5 PK	74.0	-8.5	1.83 V	354	61.6	3.9
6	**5350.00**	**53.0 AV**	**54.0**	**-1.0**	**1.83 V**	**354**	**49.1**	**3.9**
7	#10580.00	58.4 PK	74.0	-15.6	2.14 V	304	41.2	17.2
8	#10580.00	45.4 AV	54.0	-8.6	2.14 V	304	28.2	17.2

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.0 PK	74.0	-18.0	1.54 H	187	52.0	4.0
2	5460.00	45.4 AV	54.0	-8.6	1.54 H	187	41.4	4.0
3	#5470.00	56.0 PK	74.0	-18.0	1.60 H	181	52.0	4.0
4	#5470.00	45.8 AV	54.0	-8.2	1.60 H	181	41.8	4.0
5	*5530.00	93.8 PK			1.58 H	179	53.8	40.0
6	*5530.00	83.5 AV			1.58 H	179	43.5	40.0
7	#5725.00	58.7 PK	74.0	-15.3	1.66 H	200	54.2	4.5
8	#5725.00	47.6 AV	54.0	-6.4	1.66 H	200	43.1	4.5
9	11060.00	59.6 PK	74.0	-14.4	1.68 H	298	41.0	18.6
10	11060.00	46.6 AV	54.0	-7.4	1.68 H	298	28.0	18.6
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	5460.00	66.4 PK	74.0	-7.6	2.04 V	15	62.4	4.0
2	5460.00	52.6 AV	54.0	-1.4	2.04 V	15	48.6	4.0
3	#5470.00	66.2 PK	74.0	-7.8	2.03 V	14	62.2	4.0
4	#5470.00	52.5 AV	54.0	-1.5	2.03 V	14	48.5	4.0
5	*5530.00	109.6 PK			1.80 V	325	69.6	40.0
6	*5530.00	99.3 AV			1.80 V	325	59.3	40.0
7	#5725.00	57.1 PK	74.0	-16.9	1.99 V	0	52.6	4.5
8	#5725.00	46.4 AV	54.0	-7.6	1.99 V	0	41.9	4.5
9	11060.00	59.7 PK	74.0	-14.3	2.01 V	32	41.1	18.6
10	11060.00	46.8 AV	54.0	-7.2	2.01 V	32	28.2	18.6

Remark:

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

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	49.6 PK	74.0	-24.4	1.79 H	253	45.6	4.0
2	5460.00	38.0 AV	54.0	-16.0	1.79 H	253	34.0	4.0
3	#5470.00	51.5 PK	74.0	-22.5	1.81 H	233	47.5	4.0
4	#5470.00	38.8 AV	54.0	-15.2	1.81 H	233	34.8	4.0
5	*5610.00	93.4 PK			1.72 H	198	53.2	40.2
6	*5610.00	82.9 AV			1.72 H	198	42.7	40.2
7	#5725.00	52.3 PK	74.0	-21.7	1.79 H	203	47.8	4.5
8	#5725.00	39.0 AV	54.0	-15.0	1.79 H	203	34.5	4.5
9	11220.00	57.6 PK	74.0	-16.4	2.09 H	263	38.7	18.9
10	11220.00	43.6 AV	54.0	-10.4	2.09 H	263	24.7	18.9
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	5460.00	50.6 PK	74.0	-23.4	1.87 V	200	46.6	4.0
2	5460.00	38.7 AV	54.0	-15.3	1.87 V	200	34.7	4.0
3	#5470.00	52.2 PK	74.0	-21.8	1.81 V	193	48.2	4.0
4	#5470.00	38.8 AV	54.0	-15.2	1.81 V	193	34.8	4.0
5	*5610.00	109.6 PK			1.65 V	178	69.4	40.2
6	*5610.00	98.4 AV			1.65 V	178	58.2	40.2
7	#5725.00	54.1 PK	74.0	-19.9	2.03 V	187	49.6	4.5
8	#5725.00	40.3 AV	54.0	-13.7	2.03 V	187	35.8	4.5
9	11220.00	56.1 PK	74.0	-17.9	2.11 V	293	37.2	18.9
10	11220.00	43.4 AV	54.0	-10.6	2.11 V	293	24.5	18.9

Remark:

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

Below 1GHz Worst-Case Data: 802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	29.90	23.9 QP	40.0	-16.1	1.00 H	298	40.3	-16.4
2	175.72	27.3 QP	43.5	-16.2	1.00 H	210	41.9	-14.6
3	311.82	33.0 QP	46.0	-13.0	1.00 H	257	45.5	-12.5
4	599.58	36.0 QP	46.0	-10.0	1.00 H	357	43.5	-7.5
5	700.68	40.5 QP	46.0	-5.5	1.00 H	358	46.5	-6.0
6	723.49	27.5 QP	46.0	-18.5	1.00 H	10	33.2	-5.7
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	45.45	17.1 QP	40.0	-22.9	1.00 V	82	31.8	-14.7
2	146.56	16.1 QP	43.5	-27.4	1.00 V	77	30.2	-14.1
3	337.10	18.2 QP	46.0	-27.8	1.00 V	6	30.3	-12.1
4	593.74	23.3 QP	46.0	-22.7	1.00 V	229	31.0	-7.7
5	720.12	39.9 QP	46.0	-6.1	1.00 V	187	45.6	-5.7
6	799.84	32.3 QP	46.0	-13.7	1.00 V	337	36.7	-4.4

Remarks:

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

Test Mode B

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.3 PK	74.0	-18.7	2.10 H	1	51.7	3.6
2	5150.00	44.3 AV	54.0	-9.7	2.10 H	1	40.7	3.6
3	*5260.00	114.9 PK			2.12 H	0	75.3	39.6
4	*5260.00	104.8 AV			2.12 H	0	65.2	39.6
5	#10520.00	59.5 PK	74.0	-14.5	1.68 H	44	42.5	17.0
6	#10520.00	46.6 AV	54.0	-7.4	1.68 H	44	29.6	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	2.05 V	41	52.2	3.6
2	5150.00	44.6 AV	54.0	-9.4	2.05 V	41	41.0	3.6
3	*5260.00	114.7 PK			2.04 V	34	75.1	39.6
4	*5260.00	103.9 AV			2.04 V	34	64.3	39.6
5	#10520.00	59.8 PK	74.0	-14.2	1.81 V	64	42.8	17.0
6	#10520.00	46.9 AV	54.0	-7.1	1.81 V	64	29.9	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	114.4 PK			2.10 H	354	74.8	39.6
2	*5300.00	104.4 AV			2.10 H	354	64.8	39.6
3	10600.00	59.4 PK	74.0	-14.6	1.79 H	36	42.3	17.1
4	10600.00	46.5 AV	54.0	-7.5	1.79 H	36	29.4	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	114.8 PK			2.09 V	31	75.2	39.6
2	*5300.00	103.7 AV			2.09 V	31	64.1	39.6
3	10600.00	59.9 PK	74.0	-14.1	1.99 V	354	42.8	17.1
4	10600.00	46.9 AV	54.0	-7.1	1.99 V	354	29.8	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	114.4 PK			2.12 H	355	74.7	39.7
2	*5320.00	104.1 AV			2.12 H	355	64.4	39.7
3	5350.00	55.9 PK	74.0	-18.1	2.10 H	350	52.0	3.9
4	5350.00	45.2 AV	54.0	-8.8	2.10 H	350	41.3	3.9
5	10640.00	59.7 PK	74.0	-14.3	1.78 H	33	42.4	17.3
6	10640.00	46.4 AV	54.0	-7.6	1.78 H	33	29.1	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	113.2 PK			2.10 V	30	73.5	39.7
2	*5320.00	103.2 AV			2.10 V	30	63.5	39.7
3	5350.00	56.4 PK	74.0	-17.6	2.11 V	24	52.5	3.9
4	5350.00	44.5 AV	54.0	-9.5	2.11 V	24	40.6	3.9
5	10640.00	60.3 PK	74.0	-13.7	1.98 V	351	43.0	17.3
6	10640.00	47.0 AV	54.0	-7.0	1.98 V	351	29.7	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	57.4 PK	74.0	-16.6	2.14 H	0	53.4	4.0
2	5460.00	44.2 AV	54.0	-9.8	2.14 H	0	40.2	4.0
3	#5470.00	55.5 PK	74.0	-18.5	2.00 H	348	51.5	4.0
4	#5470.00	44.6 AV	54.0	-9.4	2.00 H	348	40.6	4.0
5	*5500.00	116.7 PK			2.11 H	357	76.7	40.0
6	*5500.00	105.6 AV			2.11 H	357	65.6	40.0
7	11000.00	61.3 PK	74.0	-12.7	1.61 H	25	42.3	19.0
8	11000.00	48.3 AV	54.0	-5.7	1.61 H	25	29.3	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	54.9 PK	74.0	-19.1	2.11 V	345	50.9	4.0
2	5460.00	43.6 AV	54.0	-10.4	2.11 V	345	39.6	4.0
3	#5470.00	56.1 PK	74.0	-17.9	2.13 V	348	52.1	4.0
4	#5470.00	44.6 AV	54.0	-9.4	2.13 V	348	40.6	4.0
5	*5500.00	114.1 PK			2.06 V	0	74.1	40.0
6	*5500.00	102.8 AV			2.06 V	0	62.8	40.0
7	11000.00	61.6 PK	74.0	-12.4	2.04 V	77	42.6	19.0
8	11000.00	48.6 AV	54.0	-5.4	2.04 V	77	29.6	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	115.8 PK			2.08 H	0	75.7	40.1
2	*5580.00	105.2 AV			2.08 H	0	65.1	40.1
3	11160.00	61.2 PK	74.0	-12.8	1.54 H	344	42.5	18.7
4	11160.00	48.3 AV	54.0	-5.7	1.54 H	344	29.6	18.7
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	*5580.00	114.0 PK			2.08 V	0	73.9	40.1
2	*5580.00	103.1 AV			2.08 V	0	63.0	40.1
3	11160.00	61.4 PK	74.0	-12.6	2.09 V	69	42.7	18.7
4	11160.00	48.5 AV	54.0	-5.5	2.09 V	69	29.8	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	115.1 PK			2.14 H	2	74.8	40.3
2	*5700.00	104.0 AV			2.14 H	2	63.7	40.3
3	#5725.00	56.1 PK	74.0	-17.9	2.04 H	6	51.6	4.5
4	#5725.00	44.8 AV	54.0	-9.2	2.04 H	6	40.3	4.5
5	11400.00	60.4 PK	74.0	-13.6	1.52 H	347	42.2	18.2
6	11400.00	47.1 AV	54.0	-6.9	1.52 H	347	28.9	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	114.9 PK			2.09 V	0	74.6	40.3
2	*5700.00	104.3 AV			2.09 V	0	64.0	40.3
3	#5725.00	56.7 PK	74.0	-17.3	2.11 V	359	52.2	4.5
4	#5725.00	45.6 AV	54.0	-8.4	2.11 V	359	41.1	4.5
5	11400.00	60.7 PK	74.0	-13.3	2.20 V	69	42.5	18.2
6	11400.00	47.7 AV	54.0	-6.3	2.20 V	69	29.5	18.2

Remark:

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

802.11n (HT20)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	54.8 PK	74.0	-19.2	2.12 H	354	51.2	3.6
2	5150.00	43.9 AV	54.0	-10.1	2.12 H	354	40.3	3.6
3	*5260.00	115.7 PK			2.12 H	8	76.1	39.6
4	*5260.00	104.8 AV			2.12 H	8	65.2	39.6
5	#10520.00	59.2 PK	74.0	-14.8	1.76 H	55	42.2	17.0
6	#10520.00	46.4 AV	54.0	-7.6	1.76 H	55	29.4	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	2.03 V	19	51.5	3.6
2	5150.00	44.2 AV	54.0	-9.8	2.03 V	19	40.6	3.6
3	*5260.00	114.4 PK			2.06 V	34	74.8	39.6
4	*5260.00	103.6 AV			2.06 V	34	64.0	39.6
5	#10520.00	59.6 PK	74.0	-14.4	1.96 V	355	42.6	17.0
6	#10520.00	46.6 AV	54.0	-7.4	1.96 V	355	29.6	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	115.1 PK			2.11 H	354	75.5	39.6
2	*5300.00	104.3 AV			2.11 H	354	64.7	39.6
3	10600.00	59.4 PK	74.0	-14.6	1.75 H	54	42.3	17.1
4	10600.00	46.3 AV	54.0	-7.7	1.75 H	54	29.2	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	114.8 PK			2.15 V	30	75.2	39.6
2	*5300.00	103.6 AV			2.15 V	30	64.0	39.6
3	10600.00	59.7 PK	74.0	-14.3	1.95 V	349	42.6	17.1
4	10600.00	46.6 AV	54.0	-7.4	1.95 V	349	29.5	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	114.4 PK			2.01 H	358	74.7	39.7
2	*5320.00	104.4 AV			2.01 H	358	64.7	39.7
3	5350.00	55.5 PK	74.0	-18.5	1.92 H	0	51.6	3.9
4	5350.00	44.3 AV	54.0	-9.7	1.92 H	0	40.4	3.9
5	10640.00	59.8 PK	74.0	-14.2	1.85 H	348	42.5	17.3
6	10640.00	46.6 AV	54.0	-7.4	1.85 H	348	29.3	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	113.7 PK			2.15 V	31	74.0	39.7
2	*5320.00	102.7 AV			2.15 V	31	63.0	39.7
3	5350.00	57.1 PK	74.0	-16.9	2.10 V	36	53.2	3.9
4	5350.00	45.5 AV	54.0	-8.5	2.10 V	36	41.6	3.9
5	10640.00	59.9 PK	74.0	-14.1	1.93 V	347	42.6	17.3
6	10640.00	46.7 AV	54.0	-7.3	1.93 V	347	29.4	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	55.5 PK	74.0	-18.5	2.07 H	5	51.5	4.0
2	5460.00	44.4 AV	54.0	-9.6	2.07 H	5	40.4	4.0
3	#5470.00	58.3 PK	74.0	-15.7	2.12 H	358	54.3	4.0
4	#5470.00	45.5 AV	54.0	-8.5	2.12 H	358	41.5	4.0
5	*5500.00	116.6 PK			2.10 H	0	76.6	40.0
6	*5500.00	95.4 AV			2.10 H	0	55.4	40.0
7	11000.00	61.1 PK	74.0	-12.9	1.58 H	352	42.1	19.0
8	11000.00	48.0 AV	54.0	-6.0	1.58 H	352	29.0	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.5 PK	74.0	-17.5	2.07 V	0	52.5	4.0
2	5460.00	44.6 AV	54.0	-9.4	2.07 V	0	40.6	4.0
3	#5470.00	57.0 PK	74.0	-17.0	2.11 V	2	53.0	4.0
4	#5470.00	45.0 AV	54.0	-9.0	2.11 V	2	41.0	4.0
5	*5500.00	114.4 PK			2.09 V	359	74.4	40.0
6	*5500.00	103.1 AV			2.09 V	359	63.1	40.0
7	11000.00	61.4 PK	74.0	-12.6	1.87 V	90	42.4	19.0
8	11000.00	48.4 AV	54.0	-5.6	1.87 V	90	29.4	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	115.9 PK			2.12 H	0	75.8	40.1
2	*5580.00	104.9 AV			2.12 H	0	64.8	40.1
3	11160.00	61.0 PK	74.0	-13.0	1.49 H	328	42.3	18.7
4	11160.00	47.9 AV	54.0	-6.1	1.49 H	328	29.2	18.7
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	*5580.00	113.8 PK			2.08 V	359	73.7	40.1
2	*5580.00	102.8 AV			2.08 V	359	62.7	40.1
3	11160.00	61.2 PK	74.0	-12.8	2.05 V	0	42.5	18.7
4	11160.00	48.2 AV	54.0	-5.8	2.05 V	0	29.5	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	114.0 PK			2.13 H	3	73.7	40.3
2	*5700.00	103.0 AV			2.13 H	3	62.7	40.3
3	#5725.00	55.3 PK	74.0	-18.7	2.09 H	20	50.8	4.5
4	#5725.00	44.1 AV	54.0	-9.9	2.09 H	20	39.6	4.5
5	11400.00	60.6 PK	74.0	-13.4	1.56 H	346	42.4	18.2
6	11400.00	47.3 AV	54.0	-6.7	1.56 H	346	29.1	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	114.4 PK			2.08 V	359	74.1	40.3
2	*5700.00	103.9 AV			2.08 V	359	63.6	40.3
3	#5725.00	56.6 PK	74.0	-17.4	2.05 V	5	52.1	4.5
4	#5725.00	45.7 AV	54.0	-8.3	2.05 V	5	41.2	4.5
5	11400.00	60.6 PK	74.0	-13.4	2.31 V	59	42.4	18.2
6	11400.00	47.6 AV	54.0	-6.4	2.31 V	59	29.4	18.2

Remark:

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

802.11n (HT40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	54.9 PK	74.0	-19.1	2.01 H	22	51.3	3.6
2	5150.00	43.9 AV	54.0	-10.1	2.01 H	22	40.3	3.6
3	*5270.00	111.8 PK			2.06 H	0	72.2	39.6
4	*5270.00	101.9 AV			2.06 H	0	62.3	39.6
5	#10540.00	58.6 PK	74.0	-15.4	1.68 H	42	41.5	17.1
6	#10540.00	45.6 AV	54.0	-8.4	1.68 H	42	28.5	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.0 PK	74.0	-17.0	1.96 V	19	53.4	3.6
2	5150.00	44.8 AV	54.0	-9.2	1.96 V	19	41.2	3.6
3	*5270.00	110.7 PK			2.13 V	31	71.1	39.6
4	*5270.00	100.6 AV			2.13 V	31	61.0	39.6
5	#10540.00	58.8 PK	74.0	-15.2	1.90 V	343	41.7	17.1
6	#10540.00	45.8 AV	54.0	-8.2	1.90 V	343	28.7	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	111.9 PK			2.10 H	0	72.3	39.6
2	*5310.00	101.6 AV			2.10 H	0	62.0	39.6
3	5350.00	55.8 PK	74.0	-18.2	2.10 H	359	51.9	3.9
4	5350.00	44.8 AV	54.0	-9.2	2.10 H	359	40.9	3.9
5	10620.00	58.6 PK	74.0	-15.4	1.64 H	32	41.3	17.3
6	10620.00	45.6 AV	54.0	-8.4	1.64 H	32	28.3	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	111.1 PK			2.06 V	34	71.5	39.6
2	*5310.00	100.5 AV			2.06 V	34	60.9	39.6
3	5350.00	55.5 PK	74.0	-18.5	2.01 V	0	51.6	3.9
4	5350.00	44.4 AV	54.0	-9.6	2.01 V	0	40.5	3.9
5	10620.00	59.0 PK	74.0	-15.0	1.80 V	329	41.7	17.3
6	10620.00	46.0 AV	54.0	-8.0	1.80 V	329	28.7	17.3

Remark:

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

CHANNEL	TX Channel 102	DETECTOR 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	5460.00	56.0 PK	74.0	-18.0	2.05 H	0	52.0	4.0
2	5460.00	44.5 AV	54.0	-9.5	2.05 H	0	40.5	4.0
3	#5470.00	56.0 PK	74.0	-18.0	2.11 H	26	52.0	4.0
4	#5470.00	45.3 AV	54.0	-8.7	2.11 H	26	41.3	4.0
5	*5510.00	113.0 PK			2.10 H	0	73.0	40.0
6	*5510.00	103.0 AV			2.10 H	0	63.0	40.0
7	11020.00	60.5 PK	74.0	-13.5	1.55 H	341	41.6	18.9
8	11020.00	47.5 AV	54.0	-6.5	1.55 H	341	28.6	18.9
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	5460.00	56.7 PK	74.0	-17.3	2.04 V	5	52.7	4.0
2	5460.00	46.2 AV	54.0	-7.8	2.04 V	5	42.2	4.0
3	#5470.00	57.3 PK	74.0	-16.7	2.03 V	0	53.3	4.0
4	#5470.00	47.1 AV	54.0	-6.9	2.03 V	0	43.1	4.0
5	*5510.00	111.0 PK			2.08 V	355	71.0	40.0
6	*5510.00	100.9 AV			2.08 V	355	60.9	40.0
7	11020.00	60.8 PK	74.0	-13.2	2.11 V	69	41.9	18.9
8	11020.00	47.9 AV	54.0	-6.1	2.11 V	69	29.0	18.9

Remark:

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	112.5 PK			2.11 H	1	72.5	40.0
2	*5550.00	102.5 AV			2.11 H	1	62.5	40.0
3	11100.00	60.0 PK	74.0	-14.0	1.68 H	350	41.5	18.5
4	11100.00	46.9 AV	54.0	-7.1	1.68 H	350	28.4	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	110.4 PK			2.04 V	0	70.4	40.0
2	*5550.00	100.3 AV			2.04 V	0	60.3	40.0
3	11100.00	60.3 PK	74.0	-13.7	2.16 V	53	41.8	18.5
4	11100.00	47.3 AV	54.0	-6.7	2.16 V	53	28.8	18.5

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	111.5 PK			2.12 H	2	71.2	40.3
2	*5670.00	101.5 AV			2.12 H	2	61.2	40.3
3	#5725.00	56.9 PK	74.0	-17.1	2.08 H	19	52.4	4.5
4	#5725.00	46.0 AV	54.0	-8.0	2.08 H	19	41.5	4.5
5	11340.00	59.5 PK	74.0	-14.5	1.59 H	344	41.1	18.4
6	11340.00	46.6 AV	54.0	-7.4	1.59 H	344	28.2	18.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	109.8 PK			2.12 V	1	69.5	40.3
2	*5670.00	100.4 AV			2.12 V	1	60.1	40.3
3	#5725.00	57.3 PK	74.0	-16.7	2.10 V	3	52.8	4.5
4	#5725.00	46.4 AV	54.0	-7.6	2.10 V	3	41.9	4.5
5	11340.00	60.0 PK	74.0	-14.0	2.21 V	76	41.6	18.4
6	11340.00	47.0 AV	54.0	-7.0	2.21 V	76	28.6	18.4

Remark:

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

802.11ac (VHT80)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	2.05 H	15	51.8	3.6
2	5150.00	44.1 AV	54.0	-9.9	2.05 H	15	40.5	3.6
3	*5290.00	108.6 PK			2.05 H	19	69.0	39.6
4	*5290.00	98.9 AV			2.05 H	19	59.3	39.6
5	5350.00	61.4 PK	74.0	-12.6	2.07 H	0	57.5	3.9
6	5350.00	49.4 AV	54.0	-4.6	2.07 H	0	45.5	3.9
7	#10580.00	58.3 PK	74.0	-15.7	2.00 H	60	41.1	17.2
8	#10580.00	45.3 AV	54.0	-8.7	2.00 H	60	28.1	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	2.06 V	101	52.2	3.6
2	5150.00	44.0 AV	54.0	-10.0	2.06 V	101	40.4	3.6
3	*5290.00	108.0 PK			2.09 V	32	68.4	39.6
4	*5290.00	97.8 AV			2.09 V	32	58.2	39.6
5	5350.00	61.0 PK	74.0	-13.0	2.07 V	33	57.1	3.9
6	5350.00	50.6 AV	54.0	-3.4	2.07 V	33	46.7	3.9
7	#10580.00	58.7 PK	74.0	-15.3	1.70 V	325	41.5	17.2
8	#10580.00	45.6 AV	54.0	-8.4	1.70 V	325	28.4	17.2

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.2 PK	74.0	-11.8	2.07 H	0	58.2	4.0
2	5460.00	50.8 AV	54.0	-3.2	2.07 H	0	46.8	4.0
3	#5470.00	60.2 PK	74.0	-13.8	1.99 H	26	56.2	4.0
4	#5470.00	49.0 AV	54.0	-5.0	1.99 H	26	45.0	4.0
5	*5530.00	109.8 PK			2.03 H	355	69.8	40.0
6	*5530.00	99.8 AV			2.03 H	355	59.8	40.0
7	#5725.00	56.0 PK	74.0	-18.0	2.05 H	359	51.5	4.5
8	#5725.00	45.0 AV	54.0	-9.0	2.05 H	359	40.5	4.5
9	11060.00	59.4 PK	74.0	-14.6	2.18 H	67	40.8	18.6
10	11060.00	46.4 AV	54.0	-7.6	2.18 H	67	27.8	18.6
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	5460.00	60.6 PK	74.0	-13.4	2.10 V	33	56.6	4.0
2	5460.00	49.3 AV	54.0	-4.7	2.10 V	33	45.3	4.0
3	#5470.00	61.2 PK	74.0	-12.8	2.01 V	33	57.2	4.0
4	#5470.00	47.0 AV	54.0	-7.0	2.01 V	33	43.0	4.0
5	*5530.00	106.4 PK			2.07 V	0	66.4	40.0
6	*5530.00	96.6 AV			2.07 V	0	56.6	40.0
7	#5725.00	55.8 PK	74.0	-18.2	1.96 V	0	51.3	4.5
8	#5725.00	44.6 AV	54.0	-9.4	1.96 V	0	40.1	4.5
9	11060.00	59.7 PK	74.0	-14.3	2.08 V	56	41.1	18.6
10	11060.00	46.6 AV	54.0	-7.4	2.08 V	56	28.0	18.6

Remark:

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

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	51.7 PK	74.0	-22.3	1.79 H	324	47.7	4.0
2	5460.00	38.2 AV	54.0	-15.8	1.79 H	324	34.2	4.0
3	#5470.00	51.4 PK	74.0	-22.6	1.57 H	340	47.4	4.0
4	#5470.00	38.5 AV	54.0	-15.5	1.57 H	340	34.5	4.0
5	*5610.00	103.6 PK			1.83 H	359	63.4	40.2
6	*5610.00	92.4 AV			1.83 H	359	52.2	40.2
7	#5725.00	53.0 PK	74.0	-21.0	1.99 H	297	48.5	4.5
8	#5725.00	39.4 AV	54.0	-14.6	1.99 H	297	34.9	4.5
9	11220.00	57.7 PK	74.0	-16.3	2.22 H	193	38.8	18.9
10	11220.00	42.7 AV	54.0	-11.3	2.22 H	193	23.8	18.9
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	5460.00	51.3 PK	74.0	-22.7	1.99 V	287	47.3	4.0
2	5460.00	38.0 AV	54.0	-16.0	1.99 V	287	34.0	4.0
3	#5470.00	52.0 PK	74.0	-22.0	1.87 V	291	48.0	4.0
4	#5470.00	38.4 AV	54.0	-15.6	1.87 V	291	34.4	4.0
5	*5610.00	105.1 PK			1.92 V	307	64.9	40.2
6	*5610.00	94.4 AV			1.92 V	307	54.2	40.2
7	#5725.00	51.8 PK	74.0	-22.2	1.92 V	321	47.3	4.5
8	#5725.00	39.3 AV	54.0	-14.7	1.92 V	321	34.8	4.5
9	11220.00	56.9 PK	74.0	-17.1	1.68 V	199	38.0	18.9
10	11220.00	43.0 AV	54.0	-11.0	1.68 V	199	24.1	18.9

Remark:

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

Below 1GHz Worst-Case Data: 802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	28.2 QP	40.0	-11.8	2.00 H	199	42.8	-14.6
2	88.23	29.5 QP	43.5	-14.0	2.00 H	214	49.3	-19.8
3	152.39	29.5 QP	43.5	-14.0	2.00 H	12	43.5	-14.0
4	342.93	33.3 QP	46.0	-12.7	1.01 H	259	45.4	-12.1
5	700.68	39.9 QP	46.0	-6.1	2.00 H	31	45.9	-6.0
6	750.00	44.1 QP	46.0	-1.9	1.00 H	190	49.0	-4.9
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	41.57	35.9 QP	40.0	-4.1	1.00 V	312	50.9	-15.0
2	154.33	31.6 QP	43.5	-11.9	1.00 V	57	45.5	-13.9
3	342.93	35.4 QP	46.0	-10.6	1.00 V	94	47.5	-12.1
4	700.68	36.3 QP	46.0	-9.7	1.00 V	117	42.3	-6.0
5	751.23	37.1 QP	46.0	-8.9	1.00 V	170	42.0	-4.9
6	899.00	36.3 QP	46.0	-9.7	1.00 V	325	39.3	-3.0

Remarks:

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

Test Mode C

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.9 PK	74.0	-18.1	1.76 H	345	52.3	3.6
2	5150.00	44.7 AV	54.0	-9.3	1.76 H	345	41.1	3.6
3	*5260.00	114.6 PK			2.08 H	342	75.0	39.6
4	*5260.00	104.2 AV			2.08 H	342	64.6	39.6
5	#10520.00	60.3 PK	74.0	-13.7	2.32 H	300	43.3	17.0
6	#10520.00	47.3 AV	54.0	-6.7	2.32 H	300	30.3	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.3 PK	74.0	-15.7	1.99 V	0	54.7	3.6
2	5150.00	46.4 AV	54.0	-7.6	1.99 V	0	42.8	3.6
3	*5260.00	117.3 PK			1.39 V	9	77.7	39.6
4	*5260.00	106.9 AV			1.39 V	9	67.3	39.6
5	#10520.00	59.9 PK	74.0	-14.1	2.03 V	103	42.9	17.0
6	#10520.00	46.9 AV	54.0	-7.1	2.03 V	103	29.9	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	118.0 PK			1.64 H	2	78.4	39.6
2	*5300.00	107.3 AV			1.64 H	2	67.7	39.6
3	10600.00	59.6 PK	74.0	-14.4	2.30 H	297	42.5	17.1
4	10600.00	46.6 AV	54.0	-7.4	2.30 H	297	29.5	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	116.7 PK			1.27 V	1	77.1	39.6
2	*5300.00	107.0 AV			1.27 V	1	67.4	39.6
3	10600.00	59.9 PK	74.0	-14.1	1.86 V	24	42.8	17.1
4	10600.00	46.9 AV	54.0	-7.1	1.86 V	24	29.8	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	118.1 PK			1.80 H	1	78.4	39.7
2	*5320.00	107.3 AV			1.80 H	1	67.6	39.7
3	5350.00	58.0 PK	74.0	-16.0	1.68 H	354	54.1	3.9
4	5350.00	47.4 AV	54.0	-6.6	1.68 H	354	43.5	3.9
5	10640.00	59.9 PK	74.0	-14.1	2.26 H	299	42.6	17.3
6	10640.00	46.9 AV	54.0	-7.1	2.26 H	299	29.6	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	116.8 PK			1.61 V	341	77.1	39.7
2	*5320.00	106.5 AV			1.61 V	341	66.8	39.7
3	5350.00	58.0 PK	74.0	-16.0	1.48 V	0	54.1	3.9
4	5350.00	48.2 AV	54.0	-5.8	1.48 V	0	44.3	3.9
5	10640.00	59.9 PK	74.0	-14.1	1.80 V	34	42.6	17.3
6	10640.00	47.0 AV	54.0	-7.0	1.80 V	34	29.7	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	57.9 PK	74.0	-16.1	1.50 H	0	53.9	4.0
2	5460.00	46.9 AV	54.0	-7.1	1.50 H	0	42.9	4.0
3	#5470.00	57.7 PK	74.0	-16.3	1.49 H	359	53.7	4.0
4	#5470.00	47.2 AV	54.0	-6.8	1.49 H	359	43.2	4.0
5	*5500.00	117.7 PK			1.49 H	1	77.7	40.0
6	*5500.00	107.3 AV			1.49 H	1	67.3	40.0
7	11000.00	62.1 PK	74.0	-11.9	1.85 H	323	43.1	19.0
8	11000.00	48.9 AV	54.0	-5.1	1.85 H	323	29.9	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.8 PK	74.0	-18.2	1.77 V	348	51.8	4.0
2	5460.00	44.6 AV	54.0	-9.4	1.77 V	348	40.6	4.0
3	#5470.00	56.8 PK	74.0	-17.2	1.80 V	350	52.8	4.0
4	#5470.00	46.3 AV	54.0	-7.7	1.80 V	350	42.3	4.0
5	*5500.00	117.9 PK			1.70 V	348	77.9	40.0
6	*5500.00	106.9 AV			1.70 V	348	66.9	40.0
7	11000.00	61.1 PK	74.0	-12.9	2.23 V	88	42.1	19.0
8	11000.00	47.9 AV	54.0	-6.1	2.23 V	88	28.9	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	118.7 PK			1.57 H	2	78.6	40.1
2	*5580.00	108.5 AV			1.57 H	2	68.4	40.1
3	11160.00	61.2 PK	74.0	-12.8	1.70 H	314	42.5	18.7
4	11160.00	48.0 AV	54.0	-6.0	1.70 H	314	29.3	18.7
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	*5580.00	116.7 PK			1.72 V	349	76.6	40.1
2	*5580.00	106.4 AV			1.72 V	349	66.3	40.1
3	11160.00	60.9 PK	74.0	-13.1	2.15 V	48	42.2	18.7
4	11160.00	47.6 AV	54.0	-6.4	2.15 V	48	28.9	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	118.1 PK			1.44 H	5	77.8	40.3
2	*5700.00	107.2 AV			1.44 H	5	66.9	40.3
3	#5725.00	64.5 PK	74.0	-9.5	1.74 H	338	60.0	4.5
4	#5725.00	52.4 AV	54.0	-1.6	1.74 H	338	47.9	4.5
5	11400.00	60.6 PK	74.0	-13.4	1.82 H	326	42.4	18.2
6	11400.00	47.6 AV	54.0	-6.4	1.82 H	326	29.4	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	116.9 PK			1.70 V	350	76.6	40.3
2	*5700.00	105.8 AV			1.70 V	350	65.5	40.3
3	#5725.00	59.1 PK	74.0	-14.9	1.80 V	354	54.6	4.5
4	#5725.00	47.9 AV	54.0	-6.1	1.80 V	354	43.4	4.5
5	11400.00	60.3 PK	74.0	-13.7	2.18 V	56	42.1	18.2
6	11400.00	47.2 AV	54.0	-6.8	2.18 V	56	29.0	18.2

Remark:

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

802.11n (HT20)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.1 PK	74.0	-16.9	1.65 H	291	53.5	3.6
2	5150.00	45.7 AV	54.0	-8.3	1.65 H	291	42.1	3.6
3	*5260.00	117.7 PK			1.60 H	1	78.1	39.6
4	*5260.00	107.0 AV			1.60 H	1	67.4	39.6
5	#10520.00	59.5 PK	74.0	-14.5	1.87 H	328	42.5	17.0
6	#10520.00	46.5 AV	54.0	-7.5	1.87 H	328	29.5	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	1.90 V	77	51.5	3.6
2	5150.00	44.2 AV	54.0	-9.8	1.90 V	77	40.6	3.6
3	*5260.00	116.9 PK			1.44 V	359	77.3	39.6
4	*5260.00	106.5 AV			1.44 V	359	66.9	39.6
5	#10520.00	59.2 PK	74.0	-14.8	1.92 V	34	42.2	17.0
6	#10520.00	46.1 AV	54.0	-7.9	1.92 V	34	29.1	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	117.4 PK			1.60 H	2	77.8	39.6
2	*5300.00	106.7 AV			1.60 H	2	67.1	39.6
3	10600.00	59.8 PK	74.0	-14.2	2.40 H	302	42.7	17.1
4	10600.00	46.7 AV	54.0	-7.3	2.40 H	302	29.6	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	116.7 PK			1.43 V	0	77.1	39.6
2	*5300.00	106.0 AV			1.43 V	0	66.4	39.6
3	10600.00	59.5 PK	74.0	-14.5	1.81 V	66	42.4	17.1
4	10600.00	46.5 AV	54.0	-7.5	1.81 V	66	29.4	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	117.2 PK			1.61 H	3	77.5	39.7
2	*5320.00	106.3 AV			1.61 H	3	66.6	39.7
3	5350.00	59.5 PK	74.0	-14.5	1.58 H	359	55.6	3.9
4	5350.00	48.5 AV	54.0	-5.5	1.58 H	359	44.6	3.9
5	10640.00	59.7 PK	74.0	-14.3	2.33 H	304	42.4	17.3
6	10640.00	46.7 AV	54.0	-7.3	2.33 H	304	29.4	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	117.3 PK			1.39 V	359	77.6	39.7
2	*5320.00	106.0 AV			1.39 V	359	66.3	39.7
3	5350.00	58.4 PK	74.0	-15.6	1.39 V	340	54.5	3.9
4	5350.00	47.3 AV	54.0	-6.7	1.39 V	340	43.4	3.9
5	10640.00	59.5 PK	74.0	-14.5	1.89 V	89	42.2	17.3
6	10640.00	46.4 AV	54.0	-7.6	1.89 V	89	29.1	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	57.4 PK	74.0	-16.6	1.50 H	340	53.4	4.0
2	5460.00	46.4 AV	54.0	-7.6	1.50 H	340	42.4	4.0
3	#5470.00	58.5 PK	74.0	-15.5	1.50 H	343	54.5	4.0
4	#5470.00	47.2 AV	54.0	-6.8	1.50 H	343	43.2	4.0
5	*5500.00	116.9 PK			1.45 H	6	76.9	40.0
6	*5500.00	106.0 AV			1.45 H	6	66.0	40.0
7	11000.00	61.7 PK	74.0	-12.3	1.87 H	320	42.7	19.0
8	11000.00	48.6 AV	54.0	-5.4	1.87 H	320	29.6	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.2 PK	74.0	-17.8	1.68 V	356	52.2	4.0
2	5460.00	45.0 AV	54.0	-9.0	1.68 V	356	41.0	4.0
3	#5470.00	58.0 PK	74.0	-16.0	1.77 V	355	54.0	4.0
4	#5470.00	47.3 AV	54.0	-6.7	1.77 V	355	43.3	4.0
5	*5500.00	118.0 PK			1.69 V	350	78.0	40.0
6	*5500.00	106.7 AV			1.69 V	350	66.7	40.0
7	11000.00	61.4 PK	74.0	-12.6	2.06 V	90	42.4	19.0
8	11000.00	48.2 AV	54.0	-5.8	2.06 V	90	29.2	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	118.3 PK			1.57 H	1	78.2	40.1
2	*5580.00	107.5 AV			1.57 H	1	67.4	40.1
3	11160.00	61.3 PK	74.0	-12.7	1.82 H	313	42.6	18.7
4	11160.00	48.1 AV	54.0	-5.9	1.82 H	313	29.4	18.7
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	*5580.00	115.8 PK			1.69 V	353	75.7	40.1
2	*5580.00	105.7 AV			1.69 V	353	65.6	40.1
3	11160.00	61.1 PK	74.0	-12.9	2.02 V	97	42.4	18.7
4	11160.00	47.7 AV	54.0	-6.3	2.02 V	97	29.0	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	117.9 PK			1.57 H	2	77.6	40.3
2	*5700.00	106.9 AV			1.57 H	2	66.6	40.3
3	#5725.00	63.7 PK	74.0	-10.3	1.50 H	6	59.2	4.5
4	#5725.00	49.8 AV	54.0	-4.2	1.50 H	6	45.3	4.5
5	11400.00	61.1 PK	74.0	-12.9	1.87 H	306	42.9	18.2
6	11400.00	47.8 AV	54.0	-6.2	1.87 H	306	29.6	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	116.6 PK			1.70 V	351	76.3	40.3
2	*5700.00	105.4 AV			1.70 V	351	65.1	40.3
3	#5725.00	59.4 PK	74.0	-14.6	1.60 V	351	54.9	4.5
4	#5725.00	47.1 AV	54.0	-6.9	1.60 V	351	42.6	4.5
5	11400.00	60.7 PK	74.0	-13.3	2.00 V	100	42.5	18.2
6	11400.00	47.5 AV	54.0	-6.5	2.00 V	100	29.3	18.2

Remark:

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

802.11n (HT40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.6 PK	74.0	-18.4	1.50 H	355	52.0	3.6
2	5150.00	44.5 AV	54.0	-9.5	1.50 H	355	40.9	3.6
3	*5270.00	114.3 PK			1.55 H	348	74.7	39.6
4	*5270.00	104.1 AV			1.55 H	348	64.5	39.6
5	#10540.00	58.6 PK	74.0	-15.4	1.30 H	51	41.5	17.1
6	#10540.00	45.5 AV	54.0	-8.5	1.30 H	51	28.4	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	1.40 V	5	52.2	3.6
2	5150.00	44.3 AV	54.0	-9.7	1.40 V	5	40.7	3.6
3	*5270.00	113.8 PK			1.38 V	358	74.2	39.6
4	*5270.00	104.1 AV			1.38 V	358	64.5	39.6
5	#10540.00	59.2 PK	74.0	-14.8	1.78 V	65	42.1	17.1
6	#10540.00	46.1 AV	54.0	-7.9	1.78 V	65	29.0	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	113.2 PK			1.54 H	347	73.6	39.6
2	*5310.00	103.4 AV			1.54 H	347	63.8	39.6
3	5350.00	63.4 PK	74.0	-10.6	1.31 H	1	59.5	3.9
4	5350.00	50.3 AV	54.0	-3.7	1.31 H	1	46.4	3.9
5	10620.00	58.8 PK	74.0	-15.2	1.58 H	312	41.5	17.3
6	10620.00	45.9 AV	54.0	-8.1	1.58 H	312	28.6	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	113.5 PK			2.10 V	348	73.9	39.6
2	*5310.00	103.9 AV			2.10 V	348	64.3	39.6
3	5350.00	61.5 PK	74.0	-12.5	2.07 V	352	57.6	3.9
4	5350.00	51.5 AV	54.0	-2.5	2.07 V	352	47.6	3.9
5	10620.00	59.3 PK	74.0	-14.7	1.80 V	59	42.0	17.3
6	10620.00	46.2 AV	54.0	-7.8	1.80 V	59	28.9	17.3

Remark:

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

CHANNEL	TX Channel 102	DETECTOR 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	5460.00	57.7 PK	74.0	-16.3	1.45 H	4	53.7	4.0
2	5460.00	47.1 AV	54.0	-6.9	1.45 H	4	43.1	4.0
3	#5470.00	63.1 PK	74.0	-10.9	1.45 H	4	59.1	4.0
4	#5470.00	51.3 AV	54.0	-2.7	1.45 H	4	47.3	4.0
5	*5510.00	113.3 PK			1.59 H	358	73.3	40.0
6	*5510.00	103.6 AV			1.59 H	358	63.6	40.0
7	11020.00	61.0 PK	74.0	-13.0	1.78 H	320	42.1	18.9
8	11020.00	47.8 AV	54.0	-6.2	1.78 H	320	28.9	18.9
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	5460.00	56.4 PK	74.0	-17.6	1.80 V	348	52.4	4.0
2	5460.00	45.3 AV	54.0	-8.7	1.80 V	348	41.3	4.0
3	#5470.00	61.1 PK	74.0	-12.9	1.55 V	356	57.1	4.0
4	#5470.00	48.7 AV	54.0	-5.3	1.55 V	356	44.7	4.0
5	*5510.00	113.4 PK			1.44 V	358	73.4	40.0
6	*5510.00	103.4 AV			1.44 V	358	63.4	40.0
7	11020.00	60.4 PK	74.0	-13.6	2.20 V	50	41.5	18.9
8	11020.00	47.4 AV	54.0	-6.6	2.20 V	50	28.5	18.9

Remark:

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	113.5 PK			1.52 H	358	73.5	40.0
2	*5550.00	103.7 AV			1.52 H	358	63.7	40.0
3	11100.00	60.8 PK	74.0	-13.2	1.79 H	315	42.3	18.5
4	11100.00	47.5 AV	54.0	-6.5	1.79 H	315	29.0	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	113.1 PK			1.45 V	359	73.1	40.0
2	*5550.00	102.9 AV			1.45 V	359	62.9	40.0
3	11100.00	60.1 PK	74.0	-13.9	2.29 V	41	41.6	18.5
4	11100.00	46.9 AV	54.0	-7.1	2.29 V	41	28.4	18.5

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	113.3 PK			2.09 H	339	73.0	40.3
2	*5670.00	103.6 AV			2.09 H	339	63.3	40.3
3	#5725.00	58.1 PK	74.0	-15.9	1.66 H	348	53.6	4.5
4	#5725.00	47.2 AV	54.0	-6.8	1.66 H	348	42.7	4.5
5	11340.00	60.1 PK	74.0	-13.9	1.86 H	288	41.7	18.4
6	11340.00	47.1 AV	54.0	-6.9	1.86 H	288	28.7	18.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	112.6 PK			1.45 V	357	72.3	40.3
2	*5670.00	102.2 AV			1.45 V	357	61.9	40.3
3	#5725.00	59.0 PK	74.0	-15.0	1.60 V	350	54.5	4.5
4	#5725.00	46.7 AV	54.0	-7.3	1.60 V	350	42.2	4.5
5	11340.00	59.6 PK	74.0	-14.4	2.33 V	28	41.2	18.4
6	11340.00	46.7 AV	54.0	-7.3	2.33 V	28	28.3	18.4

Remark:

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

802.11ac (VHT80)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	2.00 H	349	52.6	3.6
2	5150.00	44.8 AV	54.0	-9.2	2.00 H	349	41.2	3.6
3	*5290.00	110.5 PK			2.02 H	357	70.9	39.6
4	*5290.00	100.3 AV			2.02 H	357	60.7	39.6
5	5350.00	65.4 PK	74.0	-8.6	1.88 H	353	61.5	3.9
6	5350.00	52.8 AV	54.0	-1.2	1.88 H	353	48.9	3.9
7	#10580.00	58.9 PK	74.0	-15.1	1.99 H	70	41.7	17.2
8	#10580.00	46.0 AV	54.0	-8.0	1.99 H	70	28.8	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.7 PK	74.0	-16.3	1.50 V	21	54.1	3.6
2	5150.00	46.0 AV	54.0	-8.0	1.50 V	21	42.4	3.6
3	*5290.00	109.8 PK			1.41 V	359	70.2	39.6
4	*5290.00	100.1 AV			1.41 V	359	60.5	39.6
5	5350.00	65.3 PK	74.0	-8.7	2.07 V	358	61.4	3.9
6	5350.00	51.4 AV	54.0	-2.6	2.07 V	358	47.5	3.9
7	#10580.00	58.4 PK	74.0	-15.6	1.70 V	311	41.2	17.2
8	#10580.00	45.5 AV	54.0	-8.5	1.70 V	311	28.3	17.2

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.7 PK	74.0	-8.3	1.40 H	342	61.7	4.0
2	5460.00	52.3 AV	54.0	-1.7	1.40 H	342	48.3	4.0
3	#5470.00	61.9 PK	74.0	-12.1	1.55 H	9	57.9	4.0
4	#5470.00	50.2 AV	54.0	-3.8	1.55 H	9	46.2	4.0
5	*5530.00	107.6 PK			1.69 H	357	67.6	40.0
6	*5530.00	97.6 AV			1.69 H	357	57.6	40.0
7	#5725.00	56.3 PK	74.0	-17.7	1.60 H	338	51.8	4.5
8	#5725.00	45.1 AV	54.0	-8.9	1.60 H	338	40.6	4.5
9	11060.00	60.1 PK	74.0	-13.9	1.90 H	310	41.5	18.6
10	11060.00	47.1 AV	54.0	-6.9	1.90 H	310	28.5	18.6
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	5460.00	64.7 PK	74.0	-9.3	1.82 V	340	60.7	4.0
2	5460.00	52.2 AV	54.0	-1.8	1.82 V	340	48.2	4.0
3	#5470.00	63.2 PK	74.0	-10.8	1.55 V	356	59.2	4.0
4	#5470.00	50.3 AV	54.0	-3.7	1.55 V	356	46.3	4.0
5	*5530.00	107.5 PK			1.45 V	354	67.5	40.0
6	*5530.00	98.1 AV			1.45 V	354	58.1	40.0
7	#5725.00	56.8 PK	74.0	-17.2	1.56 V	357	52.3	4.5
8	#5725.00	45.4 AV	54.0	-8.6	1.56 V	357	40.9	4.5
9	11060.00	60.0 PK	74.0	-14.0	2.17 V	44	41.4	18.6
10	11060.00	47.0 AV	54.0	-7.0	2.17 V	44	28.4	18.6

Remark:

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

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	50.2 PK	74.0	-23.8	1.70 H	350	46.2	4.0
2	5460.00	38.4 AV	54.0	-15.6	1.70 H	350	34.4	4.0
3	#5470.00	52.2 PK	74.0	-21.8	1.61 H	341	48.2	4.0
4	#5470.00	38.4 AV	54.0	-15.6	1.61 H	341	34.4	4.0
5	*5610.00	107.8 PK			1.51 H	359	67.6	40.2
6	*5610.00	96.8 AV			1.51 H	359	56.6	40.2
7	#5725.00	52.9 PK	74.0	-21.1	1.67 H	348	48.4	4.5
8	#5725.00	43.3 AV	54.0	-10.7	1.67 H	348	38.8	4.5
9	11220.00	56.3 PK	74.0	-17.7	1.83 H	293	37.4	18.9
10	11220.00	44.5 AV	54.0	-9.5	1.83 H	293	25.6	18.9
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	5460.00	50.0 PK	74.0	-24.0	1.81 V	340	46.0	4.0
2	5460.00	38.4 AV	54.0	-15.6	1.81 V	340	34.4	4.0
3	#5470.00	51.8 PK	74.0	-22.2	1.76 V	341	47.8	4.0
4	#5470.00	38.6 AV	54.0	-15.4	1.76 V	341	34.6	4.0
5	*5610.00	103.9 PK			1.87 V	355	63.7	40.2
6	*5610.00	93.1 AV			1.87 V	355	52.9	40.2
7	#5725.00	51.9 PK	74.0	-22.1	1.67 V	354	47.4	4.5
8	#5725.00	39.7 AV	54.0	-14.3	1.67 V	354	35.2	4.5
9	11220.00	57.0 PK	74.0	-17.0	1.87 V	248	38.1	18.9
10	11220.00	43.5 AV	54.0	-10.5	1.87 V	248	24.6	18.9

Remark:

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

Below 1GHz Worst-Case Data: 802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	29.90	23.9 QP	40.0	-16.1	1.00 H	298	40.3	-16.4
2	175.72	27.3 QP	43.5	-16.2	1.00 H	210	41.9	-14.6
3	311.82	33.0 QP	46.0	-13.0	1.00 H	257	45.5	-12.5
4	599.58	36.0 QP	46.0	-10.0	1.00 H	357	43.5	-7.5
5	700.68	40.5 QP	46.0	-5.5	1.00 H	358	46.5	-6.0
6	723.49	27.5 QP	46.0	-18.5	1.00 H	10	33.2	-5.7
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	45.45	17.1 QP	40.0	-22.9	1.00 V	82	31.8	-14.7
2	146.56	16.1 QP	43.5	-27.4	1.00 V	77	30.2	-14.1
3	337.10	18.2 QP	46.0	-27.8	1.00 V	6	30.3	-12.1
4	593.74	23.3 QP	46.0	-22.7	1.00 V	229	31.0	-7.7
5	720.12	39.9 QP	46.0	-6.1	1.00 V	187	45.6	-5.7
6	799.84	32.3 QP	46.0	-13.7	1.00 V	337	36.7	-4.4

Remarks:

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

Test Mode D

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	1.91 H	346	51.5	3.6
2	5150.00	43.1 AV	54.0	-10.9	1.91 H	346	39.5	3.6
3	*5260.00	117.2 PK			1.98 H	351	77.6	39.6
4	*5260.00	106.1 AV			1.98 H	351	66.5	39.6
5	#10520.00	58.4 PK	74.0	-15.6	2.03 H	324	41.4	17.0
6	#10520.00	44.7 AV	54.0	-9.3	2.03 H	324	27.7	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.7 PK	74.0	-18.3	2.02 V	333	52.1	3.6
2	5150.00	42.6 AV	54.0	-11.4	2.02 V	333	39.0	3.6
3	*5260.00	116.1 PK			1.96 V	348	76.5	39.6
4	*5260.00	105.2 AV			1.96 V	348	65.6	39.6
5	#10520.00	58.5 PK	74.0	-15.5	2.99 V	231	41.5	17.0
6	#10520.00	45.5 AV	54.0	-8.5	2.99 V	231	28.5	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	117.0 PK			1.68 H	344	77.4	39.6
2	*5300.00	106.2 AV			1.68 H	344	66.6	39.6
3	10600.00	58.1 PK	74.0	-15.9	1.89 H	353	41.0	17.1
4	10600.00	44.8 AV	54.0	-9.2	1.89 H	353	27.7	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	116.5 PK			2.00 V	352	76.9	39.6
2	*5300.00	105.6 AV			2.00 V	352	66.0	39.6
3	10600.00	58.8 PK	74.0	-15.2	2.19 V	341	41.7	17.1
4	10600.00	45.4 AV	54.0	-8.6	2.19 V	341	28.3	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	117.7 PK			1.70 H	347	78.0	39.7
2	*5320.00	107.1 AV			1.70 H	347	67.4	39.7
3	5350.00	57.1 PK	74.0	-16.9	1.70 H	359	53.2	3.9
4	5350.00	44.7 AV	54.0	-9.3	1.70 H	359	40.8	3.9
5	10640.00	58.6 PK	74.0	-15.4	1.89 H	349	41.3	17.3
6	10640.00	44.9 AV	54.0	-9.1	1.89 H	349	27.6	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	115.7 PK			1.95 V	346	76.0	39.7
2	*5320.00	105.2 AV			1.95 V	346	65.5	39.7
3	5350.00	56.1 PK	74.0	-17.9	1.88 V	357	52.2	3.9
4	5350.00	44.4 AV	54.0	-9.6	1.88 V	357	40.5	3.9
5	10640.00	58.3 PK	74.0	-15.7	1.87 V	263	41.0	17.3
6	10640.00	45.1 AV	54.0	-8.9	1.87 V	263	27.8	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	57.1 PK	74.0	-16.9	1.97 H	322	53.1	4.0
2	5460.00	43.9 AV	54.0	-10.1	1.97 H	322	39.9	4.0
3	#5470.00	58.5 PK	74.0	-15.5	1.88 H	333	54.5	4.0
4	#5470.00	44.8 AV	54.0	-9.2	1.88 H	333	40.8	4.0
5	*5500.00	116.6 PK			1.68 H	345	76.6	40.0
6	*5500.00	105.3 AV			1.68 H	345	65.3	40.0
7	11000.00	60.2 PK	74.0	-13.8	2.03 H	302	41.2	19.0
8	11000.00	46.7 AV	54.0	-7.3	2.03 H	302	27.7	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.1 PK	74.0	-17.9	1.90 V	344	52.1	4.0
2	5460.00	43.4 AV	54.0	-10.6	1.90 V	344	39.4	4.0
3	#5470.00	57.9 PK	74.0	-16.1	1.75 V	343	53.9	4.0
4	#5470.00	44.3 AV	54.0	-9.7	1.75 V	343	40.3	4.0
5	*5500.00	115.9 PK			1.67 V	346	75.9	40.0
6	*5500.00	105.8 AV			1.67 V	346	65.8	40.0
7	11000.00	60.3 PK	74.0	-13.7	1.91 V	358	41.3	19.0
8	11000.00	46.9 AV	54.0	-7.1	1.91 V	358	27.9	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	116.1 PK			1.74 H	352	76.0	40.1
2	*5580.00	105.0 AV			1.74 H	352	64.9	40.1
3	11160.00	59.6 PK	74.0	-14.4	1.81 H	323	40.9	18.7
4	11160.00	46.3 AV	54.0	-7.7	1.81 H	323	27.6	18.7
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	*5580.00	115.8 PK			1.73 V	341	75.7	40.1
2	*5580.00	104.7 AV			1.73 V	341	64.6	40.1
3	11160.00	59.2 PK	74.0	-14.8	1.80 V	322	40.5	18.7
4	11160.00	46.2 AV	54.0	-7.8	1.80 V	322	27.5	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	116.3 PK			1.83 H	349	76.0	40.3
2	*5700.00	105.0 AV			1.83 H	349	64.7	40.3
3	#5725.00	58.0 PK	74.0	-16.0	1.70 H	351	53.5	4.5
4	#5725.00	44.7 AV	54.0	-9.3	1.70 H	351	40.2	4.5
5	11400.00	59.5 PK	74.0	-14.5	1.87 H	316	41.3	18.2
6	11400.00	45.9 AV	54.0	-8.1	1.87 H	316	27.7	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	115.3 PK			1.72 V	348	75.0	40.3
2	*5700.00	105.3 AV			1.72 V	348	65.0	40.3
3	#5725.00	57.5 PK	74.0	-16.5	1.88 V	339	53.0	4.5
4	#5725.00	44.7 AV	54.0	-9.3	1.88 V	339	40.2	4.5
5	11400.00	59.3 PK	74.0	-14.7	2.02 V	289	41.1	18.2
6	11400.00	45.9 AV	54.0	-8.1	2.02 V	289	27.7	18.2

Remark:

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

802.11n (HT20)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	1.77 H	333	51.8	3.6
2	5150.00	42.2 AV	54.0	-11.8	1.77 H	333	38.6	3.6
3	*5260.00	116.9 PK			1.54 H	347	77.3	39.6
4	*5260.00	105.8 AV			1.54 H	347	66.2	39.6
5	#10520.00	58.8 PK	74.0	-15.2	1.93 H	299	41.8	17.0
6	#10520.00	45.6 AV	54.0	-8.4	1.93 H	299	28.6	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.1 PK	74.0	-17.9	2.19 V	322	52.5	3.6
2	5150.00	42.9 AV	54.0	-11.1	2.19 V	322	39.3	3.6
3	*5260.00	115.9 PK			2.00 V	346	76.3	39.6
4	*5260.00	105.0 AV			2.00 V	346	65.4	39.6
5	#10520.00	58.6 PK	74.0	-15.4	1.77 V	319	41.6	17.0
6	#10520.00	45.5 AV	54.0	-8.5	1.77 V	319	28.5	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	117.1 PK			1.49 H	346	77.5	39.6
2	*5300.00	105.9 AV			1.49 H	346	66.3	39.6
3	10600.00	58.9 PK	74.0	-15.1	1.77 H	338	41.8	17.1
4	10600.00	45.8 AV	54.0	-8.2	1.77 H	338	28.7	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	116.8 PK			2.03 V	350	77.2	39.6
2	*5300.00	105.3 AV			2.03 V	350	65.7	39.6
3	10600.00	58.8 PK	74.0	-15.2	2.11 V	315	41.7	17.1
4	10600.00	45.7 AV	54.0	-8.3	2.11 V	315	28.6	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	117.6 PK			1.76 H	347	77.9	39.7
2	*5320.00	106.4 AV			1.76 H	347	66.7	39.7
3	5350.00	57.8 PK	74.0	-16.2	1.89 H	322	53.9	3.9
4	5350.00	44.5 AV	54.0	-9.5	1.89 H	322	40.6	3.9
5	10640.00	58.7 PK	74.0	-15.3	1.87 H	357	41.4	17.3
6	10640.00	45.6 AV	54.0	-8.4	1.87 H	357	28.3	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	115.8 PK			2.04 V	351	76.1	39.7
2	*5320.00	105.0 AV			2.04 V	351	65.3	39.7
3	5350.00	55.6 PK	74.0	-18.4	1.97 V	333	51.7	3.9
4	5350.00	44.1 AV	54.0	-9.9	1.97 V	333	40.2	3.9
5	10640.00	58.5 PK	74.0	-15.5	1.77 V	323	41.2	17.3
6	10640.00	45.3 AV	54.0	-8.7	1.77 V	323	28.0	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	56.7 PK	74.0	-17.3	1.88 H	350	52.7	4.0
2	5460.00	44.2 AV	54.0	-9.8	1.88 H	350	40.2	4.0
3	#5470.00	58.6 PK	74.0	-15.4	1.89 H	355	54.6	4.0
4	#5470.00	44.6 AV	54.0	-9.4	1.89 H	355	40.6	4.0
5	*5500.00	115.2 PK			1.75 H	345	75.2	40.0
6	*5500.00	104.6 AV			1.75 H	345	64.6	40.0
7	11000.00	59.8 PK	74.0	-14.2	1.90 H	323	40.8	19.0
8	11000.00	46.1 AV	54.0	-7.9	1.90 H	323	27.1	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.5 PK	74.0	-17.5	1.77 V	350	52.5	4.0
2	5460.00	44.0 AV	54.0	-10.0	1.77 V	350	40.0	4.0
3	#5470.00	58.0 PK	74.0	-16.0	1.90 V	351	54.0	4.0
4	#5470.00	44.4 AV	54.0	-9.6	1.90 V	351	40.4	4.0
5	*5500.00	116.7 PK			1.85 V	348	76.7	40.0
6	*5500.00	105.2 AV			1.85 V	348	65.2	40.0
7	11000.00	59.5 PK	74.0	-14.5	1.99 V	289	40.5	19.0
8	11000.00	46.0 AV	54.0	-8.0	1.99 V	289	27.0	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	115.7 PK			1.85 H	345	75.6	40.1
2	*5580.00	104.9 AV			1.85 H	345	64.8	40.1
3	11160.00	60.0 PK	74.0	-14.0	1.93 H	301	41.3	18.7
4	11160.00	46.8 AV	54.0	-7.2	1.93 H	301	28.1	18.7
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	*5580.00	115.3 PK			1.51 V	340	75.2	40.1
2	*5580.00	104.3 AV			1.51 V	340	64.2	40.1
3	11160.00	59.8 PK	74.0	-14.2	1.99 V	333	41.1	18.7
4	11160.00	46.7 AV	54.0	-7.3	1.99 V	333	28.0	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	116.0 PK			1.77 H	349	75.7	40.3
2	*5700.00	104.6 AV			1.77 H	349	64.3	40.3
3	#5725.00	57.7 PK	74.0	-16.3	1.83 H	340	53.2	4.5
4	#5725.00	44.5 AV	54.0	-9.5	1.83 H	340	40.0	4.5
5	11400.00	60.0 PK	74.0	-14.0	1.66 H	358	41.8	18.2
6	11400.00	46.9 AV	54.0	-7.1	1.66 H	358	28.7	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	115.4 PK			1.80 V	345	75.1	40.3
2	*5700.00	104.8 AV			1.80 V	345	64.5	40.3
3	#5725.00	57.2 PK	74.0	-16.8	1.93 V	352	52.7	4.5
4	#5725.00	44.1 AV	54.0	-9.9	1.93 V	352	39.6	4.5
5	11400.00	59.7 PK	74.0	-14.3	2.02 V	333	41.5	18.2
6	11400.00	46.3 AV	54.0	-7.7	2.02 V	333	28.1	18.2

Remark:

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

802.11n (HT40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.9 PK	74.0	-18.1	1.64 H	343	52.3	3.6
2	5150.00	43.1 AV	54.0	-10.9	1.64 H	343	39.5	3.6
3	*5270.00	113.8 PK			2.03 H	350	74.2	39.6
4	*5270.00	103.5 AV			2.03 H	350	63.9	39.6
5	#10540.00	58.8 PK	74.0	-15.2	1.79 H	287	41.7	17.1
6	#10540.00	45.8 AV	54.0	-8.2	1.79 H	287	28.7	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.5 PK	74.0	-17.5	2.11 V	359	52.9	3.6
2	5150.00	43.1 AV	54.0	-10.9	2.11 V	359	39.5	3.6
3	*5270.00	113.5 PK			2.09 V	348	73.9	39.6
4	*5270.00	103.3 AV			2.09 V	348	63.7	39.6
5	#10540.00	58.4 PK	74.0	-15.6	1.79 V	322	41.3	17.1
6	#10540.00	45.6 AV	54.0	-8.4	1.79 V	322	28.5	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	114.0 PK			2.09 H	347	74.4	39.6
2	*5310.00	103.8 AV			2.09 H	347	64.2	39.6
3	5350.00	58.7 PK	74.0	-15.3	2.12 H	347	54.8	3.9
4	5350.00	45.7 AV	54.0	-8.3	2.12 H	347	41.8	3.9
5	10620.00	58.7 PK	74.0	-15.3	1.87 H	331	41.4	17.3
6	10620.00	45.3 AV	54.0	-8.7	1.87 H	331	28.0	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	112.6 PK			2.04 V	350	73.0	39.6
2	*5310.00	102.4 AV			2.04 V	350	62.8	39.6
3	5350.00	57.6 PK	74.0	-16.4	2.11 V	347	53.7	3.9
4	5350.00	44.7 AV	54.0	-9.3	2.11 V	347	40.8	3.9
5	10620.00	58.5 PK	74.0	-15.5	1.99 V	359	41.2	17.3
6	10620.00	45.1 AV	54.0	-8.9	1.99 V	359	27.8	17.3

Remark:

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

CHANNEL	TX Channel 102	DETECTOR 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	5460.00	57.4 PK	74.0	-16.6	1.77 H	340	53.4	4.0
2	5460.00	45.0 AV	54.0	-9.0	1.77 H	340	41.0	4.0
3	#5470.00	58.5 PK	74.0	-15.5	1.89 H	355	54.5	4.0
4	#5470.00	45.4 AV	54.0	-8.6	1.89 H	355	41.4	4.0
5	*5510.00	113.1 PK			1.81 H	345	73.1	40.0
6	*5510.00	102.8 AV			1.81 H	345	62.8	40.0
7	11020.00	59.8 PK	74.0	-14.2	1.99 H	359	40.9	18.9
8	11020.00	46.8 AV	54.0	-7.2	1.99 H	359	27.9	18.9
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	5460.00	56.6 PK	74.0	-17.4	1.87 V	357	52.6	4.0
2	5460.00	44.5 AV	54.0	-9.5	1.87 V	357	40.5	4.0
3	#5470.00	57.9 PK	74.0	-16.1	1.99 V	350	53.9	4.0
4	#5470.00	45.2 AV	54.0	-8.8	1.99 V	350	41.2	4.0
5	*5510.00	113.8 PK			1.72 V	347	73.8	40.0
6	*5510.00	103.7 AV			1.72 V	347	63.7	40.0
7	11020.00	59.2 PK	74.0	-14.8	2.03 V	333	40.3	18.9
8	11020.00	46.6 AV	54.0	-7.4	2.03 V	333	27.7	18.9

Remark:

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	113.4 PK			1.89 H	350	73.4	40.0
2	*5550.00	103.0 AV			1.89 H	350	63.0	40.0
3	11100.00	60.5 PK	74.0	-13.5	1.73 H	342	42.0	18.5
4	11100.00	46.6 AV	54.0	-7.4	1.73 H	342	28.1	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	113.3 PK			1.64 V	344	73.3	40.0
2	*5550.00	102.9 AV			1.64 V	344	62.9	40.0
3	11100.00	60.0 PK	74.0	-14.0	1.99 V	325	41.5	18.5
4	11100.00	46.3 AV	54.0	-7.7	1.99 V	325	27.8	18.5

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	113.0 PK			1.77 H	348	72.7	40.3
2	*5670.00	102.5 AV			1.77 H	348	62.2	40.3
3	#5725.00	57.9 PK	74.0	-16.1	1.63 H	345	53.4	4.5
4	#5725.00	45.3 AV	54.0	-8.7	1.63 H	345	40.8	4.5
5	11340.00	60.1 PK	74.0	-13.9	1.77 H	333	41.7	18.4
6	11340.00	47.1 AV	54.0	-6.9	1.77 H	333	28.7	18.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	112.5 PK			1.73 V	352	72.2	40.3
2	*5670.00	102.4 AV			1.73 V	352	62.1	40.3
3	#5725.00	57.0 PK	74.0	-17.0	1.66 V	340	52.5	4.5
4	#5725.00	44.9 AV	54.0	-9.1	1.66 V	340	40.4	4.5
5	11340.00	59.6 PK	74.0	-14.4	1.89 V	326	41.2	18.4
6	11340.00	46.5 AV	54.0	-7.5	1.89 V	326	28.1	18.4

Remark:

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

802.11ac (VHT80)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	1.78 H	355	52.2	3.6
2	5150.00	43.4 AV	54.0	-10.6	1.78 H	355	39.8	3.6
3	*5290.00	109.8 PK			2.09 H	348	70.2	39.6
4	*5290.00	99.8 AV			2.09 H	348	60.2	39.6
5	5350.00	65.4 PK	74.0	-8.6	1.66 H	347	61.5	3.9
6	5350.00	52.7 AV	54.0	-1.3	1.66 H	347	48.8	3.9
7	#10580.00	59.4 PK	74.0	-14.6	1.92 H	303	42.2	17.2
8	#10580.00	45.7 AV	54.0	-8.3	1.92 H	303	28.5	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.0 PK	74.0	-19.0	1.87 V	340	51.4	3.6
2	5150.00	43.5 AV	54.0	-10.5	1.87 V	340	39.9	3.6
3	*5290.00	108.9 PK			2.10 V	349	69.3	39.6
4	*5290.00	99.0 AV			2.10 V	349	59.4	39.6
5	5350.00	61.4 PK	74.0	-12.6	1.91 V	349	57.5	3.9
6	5350.00	48.3 AV	54.0	-5.7	1.91 V	349	44.4	3.9
7	#10580.00	59.1 PK	74.0	-14.9	1.93 V	333	41.9	17.2
8	#10580.00	45.6 AV	54.0	-8.4	1.93 V	333	28.4	17.2

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	64.6 PK	74.0	-9.4	1.80 H	355	60.6	4.0
2	5460.00	51.6 AV	54.0	-2.4	1.80 H	355	47.6	4.0
3	#5470.00	65.5 PK	74.0	-8.5	1.75 H	346	61.5	4.0
4	#5470.00	52.6 AV	54.0	-1.4	1.75 H	346	48.6	4.0
5	*5530.00	109.4 PK			1.74 H	349	69.4	40.0
6	*5530.00	99.0 AV			1.74 H	349	59.0	40.0
7	#5725.00	56.7 PK	74.0	-17.3	1.88 H	333	52.2	4.5
8	#5725.00	44.0 AV	54.0	-10.0	1.88 H	333	39.5	4.5
9	11060.00	59.6 PK	74.0	-14.4	1.99 H	313	41.0	18.6
10	11060.00	46.6 AV	54.0	-7.4	1.99 H	313	28.0	18.6
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	5460.00	60.3 PK	74.0	-13.7	1.90 V	340	56.3	4.0
2	5460.00	47.9 AV	54.0	-6.1	1.90 V	340	43.9	4.0
3	#5470.00	63.2 PK	74.0	-10.8	1.84 V	350	59.2	4.0
4	#5470.00	50.5 AV	54.0	-3.5	1.84 V	350	46.5	4.0
5	*5530.00	109.7 PK			1.76 V	349	69.7	40.0
6	*5530.00	99.6 AV			1.76 V	349	59.6	40.0
7	#5725.00	57.5 PK	74.0	-16.5	1.88 V	356	53.0	4.5
8	#5725.00	44.1 AV	54.0	-9.9	1.88 V	356	39.6	4.5
9	11060.00	60.1 PK	74.0	-13.9	1.80 V	340	41.5	18.6
10	11060.00	47.3 AV	54.0	-6.7	1.80 V	340	28.7	18.6

Remark:

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

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	50.4 PK	74.0	-23.6	1.69 H	339	46.4	4.0
2	5460.00	38.4 AV	54.0	-15.6	1.69 H	339	34.4	4.0
3	#5470.00	51.5 PK	74.0	-22.5	1.77 H	341	47.5	4.0
4	#5470.00	38.8 AV	54.0	-15.2	1.77 H	341	34.8	4.0
5	*5610.00	107.6 PK			1.56 H	352	67.4	40.2
6	*5610.00	96.8 AV			1.56 H	352	56.6	40.2
7	#5725.00	52.9 PK	74.0	-21.1	1.73 H	298	48.4	4.5
8	#5725.00	40.5 AV	54.0	-13.5	1.73 H	298	36.0	4.5
9	11220.00	56.3 PK	74.0	-17.7	1.79 H	243	37.4	18.9
10	11220.00	43.4 AV	54.0	-10.6	1.79 H	243	24.5	18.9
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	5460.00	49.7 PK	74.0	-24.3	1.81 V	351	45.7	4.0
2	5460.00	38.0 AV	54.0	-16.0	1.81 V	351	34.0	4.0
3	#5470.00	52.4 PK	74.0	-21.6	1.96 V	333	48.4	4.0
4	#5470.00	38.4 AV	54.0	-15.6	1.96 V	333	34.4	4.0
5	*5610.00	104.9 PK			1.54 V	355	64.7	40.2
6	*5610.00	93.9 AV			1.54 V	355	53.7	40.2
7	#5725.00	53.1 PK	74.0	-20.9	1.69 V	344	48.6	4.5
8	#5725.00	40.1 AV	54.0	-13.9	1.69 V	344	35.6	4.5
9	11220.00	56.5 PK	74.0	-17.5	1.93 V	287	37.6	18.9
10	11220.00	43.7 AV	54.0	-10.3	1.93 V	287	24.8	18.9

Remark:

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

Below 1GHz Worst-Case Data: 802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	27.3 QP	40.0	-12.7	2.00 H	236	41.9	-14.6
2	107.67	33.1 QP	43.5	-10.4	1.01 H	13	50.7	-17.6
3	344.87	30.7 QP	46.0	-15.3	1.01 H	114	42.8	-12.1
4	599.58	31.7 QP	46.0	-14.3	1.01 H	110	39.2	-7.5
5	700.68	40.3 QP	46.0	-5.7	1.01 H	67	46.3	-6.0
6	799.84	38.6 QP	46.0	-7.4	1.51 H	104	43.0	-4.4
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	29.90	33.3 QP	40.0	-6.7	1.00 V	174	49.7	-16.4
2	107.67	28.2 QP	43.5	-15.3	1.00 V	10	45.8	-17.6
3	340.99	31.2 QP	46.0	-14.8	1.00 V	91	43.3	-12.1
4	599.58	30.1 QP	46.0	-15.9	1.00 V	176	37.6	-7.5
5	700.68	37.2 QP	46.0	-8.8	1.00 V	94	43.2	-6.0
6	799.84	36.0 QP	46.0	-10.0	1.00 V	191	40.4	-4.4

Remarks:

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

Test Mode E

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.0 PK	74.0	-18.0	1.77 H	343	52.4	3.6
2	5150.00	45.5 AV	54.0	-8.5	1.77 H	343	41.9	3.6
3	*5260.00	118.1 PK			1.63 H	340	78.5	39.6
4	*5260.00	107.8 AV			1.63 H	340	68.2	39.6
5	#10520.00	59.1 PK	74.0	-14.9	1.90 H	304	42.1	17.0
6	#10520.00	46.2 AV	54.0	-7.8	1.90 H	304	29.2	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	1.60 V	334	51.8	3.6
2	5150.00	44.4 AV	54.0	-9.6	1.60 V	334	40.8	3.6
3	*5260.00	117.8 PK			1.54 V	346	78.2	39.6
4	*5260.00	107.5 AV			1.54 V	346	67.9	39.6
5	#10520.00	58.8 PK	74.0	-15.2	1.65 V	14	41.8	17.0
6	#10520.00	45.8 AV	54.0	-8.2	1.65 V	14	28.8	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	117.0 PK			1.73 H	341	77.4	39.6
2	*5300.00	107.0 AV			1.73 H	341	67.4	39.6
3	10600.00	59.4 PK	74.0	-14.6	1.88 H	322	42.3	17.1
4	10600.00	46.4 AV	54.0	-7.6	1.88 H	322	29.3	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	117.8 PK			1.57 V	345	78.2	39.6
2	*5300.00	107.3 AV			1.57 V	345	67.7	39.6
3	10600.00	59.2 PK	74.0	-14.8	1.46 V	58	42.1	17.1
4	10600.00	46.2 AV	54.0	-7.8	1.46 V	58	29.1	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	117.8 PK			1.76 H	340	78.1	39.7
2	*5320.00	106.9 AV			1.76 H	340	67.2	39.7
3	5350.00	57.6 PK	74.0	-16.4	1.86 H	344	53.7	3.9
4	5350.00	46.7 AV	54.0	-7.3	1.86 H	344	42.8	3.9
5	10640.00	59.6 PK	74.0	-14.4	1.96 H	359	42.3	17.3
6	10640.00	46.6 AV	54.0	-7.4	1.96 H	359	29.3	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	117.2 PK			1.59 V	346	77.5	39.7
2	*5320.00	106.8 AV			1.59 V	346	67.1	39.7
3	5350.00	56.9 PK	74.0	-17.1	1.66 V	339	53.0	3.9
4	5350.00	45.9 AV	54.0	-8.1	1.66 V	339	42.0	3.9
5	10640.00	60.1 PK	74.0	-13.9	1.00 V	53	42.8	17.3
6	10640.00	46.9 AV	54.0	-7.1	1.00 V	53	29.6	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	54.3 PK	74.0	-19.7	1.77 H	313	50.3	4.0
2	5460.00	42.8 AV	54.0	-11.2	1.77 H	313	38.8	4.0
3	#5470.00	46.8 PK	74.0	-27.2	1.66 H	337	42.8	4.0
4	#5470.00	43.5 AV	54.0	-10.5	1.66 H	337	39.5	4.0
5	*5500.00	116.6 PK			1.57 H	347	76.6	40.0
6	*5500.00	106.5 AV			1.57 H	347	66.5	40.0
7	11000.00	60.2 PK	74.0	-13.8	1.99 H	309	41.2	19.0
8	11000.00	47.1 AV	54.0	-6.9	1.99 H	309	28.1	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.3 PK	74.0	-18.7	1.99 V	341	51.3	4.0
2	5460.00	42.7 AV	54.0	-11.3	1.99 V	341	38.7	4.0
3	#5470.00	56.3 PK	74.0	-17.7	1.89 V	339	52.3	4.0
4	#5470.00	45.2 AV	54.0	-8.8	1.89 V	339	41.2	4.0
5	*5500.00	118.0 PK			1.95 V	347	78.0	40.0
6	*5500.00	107.2 AV			1.95 V	347	67.2	40.0
7	11000.00	60.9 PK	74.0	-13.1	2.03 V	322	41.9	19.0
8	11000.00	47.2 AV	54.0	-6.8	2.03 V	322	28.2	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	117.1 PK			1.57 H	344	77.0	40.1
2	*5580.00	106.7 AV			1.57 H	344	66.6	40.1
3	11160.00	59.7 PK	74.0	-14.3	1.79 H	323	41.0	18.7
4	11160.00	46.5 AV	54.0	-7.5	1.79 H	323	27.8	18.7
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	*5580.00	118.9 PK			1.66 V	340	78.8	40.1
2	*5580.00	107.7 AV			1.66 V	340	67.6	40.1
3	11160.00	60.2 PK	74.0	-13.8	1.89 V	359	41.5	18.7
4	11160.00	46.7 AV	54.0	-7.3	1.89 V	359	28.0	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	117.8 PK			1.55 H	342	77.5	40.3
2	*5700.00	107.0 AV			1.55 H	342	66.7	40.3
3	#5725.00	59.8 PK	74.0	-14.2	1.51 H	346	55.3	4.5
4	#5725.00	46.9 AV	54.0	-7.1	1.51 H	346	42.4	4.5
5	11400.00	61.6 PK	74.0	-12.4	1.63 H	313	43.4	18.2
6	11400.00	48.6 AV	54.0	-5.4	1.63 H	313	30.4	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	118.7 PK			1.57 V	335	78.4	40.3
2	*5700.00	107.7 AV			1.57 V	335	67.4	40.3
3	#5725.00	60.2 PK	74.0	-13.8	1.67 V	334	55.7	4.5
4	#5725.00	46.6 AV	54.0	-7.4	1.67 V	334	42.1	4.5
5	11400.00	61.4 PK	74.0	-12.6	1.79 V	324	43.2	18.2
6	11400.00	47.5 AV	54.0	-6.5	1.79 V	324	29.3	18.2

Remark:

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

802.11n (HT20)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.1 PK	74.0	-17.9	1.77 H	335	52.5	3.6
2	5150.00	44.8 AV	54.0	-9.2	1.77 H	335	41.2	3.6
3	*5260.00	117.4 PK			1.78 H	338	77.8	39.6
4	*5260.00	107.0 AV			1.78 H	338	67.4	39.6
5	#10520.00	59.6 PK	74.0	-14.4	2.01 H	298	42.6	17.0
6	#10520.00	46.5 AV	54.0	-7.5	2.01 H	298	29.5	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.8 PK	74.0	-18.2	1.70 V	341	52.2	3.6
2	5150.00	44.4 AV	54.0	-9.6	1.70 V	341	40.8	3.6
3	*5260.00	118.3 PK			1.54 V	345	78.7	39.6
4	*5260.00	107.5 AV			1.54 V	345	67.9	39.6
5	#10520.00	59.9 PK	74.0	-14.1	1.61 V	29	42.9	17.0
6	#10520.00	46.8 AV	54.0	-7.2	1.61 V	29	29.8	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	116.9 PK			1.77 H	340	77.3	39.6
2	*5300.00	106.8 AV			1.77 H	340	67.2	39.6
3	10600.00	59.7 PK	74.0	-14.3	2.03 H	350	42.6	17.1
4	10600.00	46.7 AV	54.0	-7.3	2.03 H	350	29.6	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	118.5 PK			1.55 V	343	78.9	39.6
2	*5300.00	107.4 AV			1.55 V	343	67.8	39.6
3	10600.00	59.3 PK	74.0	-14.7	1.64 V	50	42.2	17.1
4	10600.00	46.5 AV	54.0	-7.5	1.64 V	50	29.4	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	117.5 PK			1.79 H	341	77.8	39.7
2	*5320.00	106.7 AV			1.79 H	341	67.0	39.7
3	5350.00	57.7 PK	74.0	-16.3	1.82 H	349	53.8	3.9
4	5350.00	46.7 AV	54.0	-7.3	1.82 H	349	42.8	3.9
5	10640.00	60.0 PK	74.0	-14.0	2.06 H	356	42.7	17.3
6	10640.00	47.0 AV	54.0	-7.0	2.06 H	356	29.7	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	117.6 PK			1.39 V	342	77.9	39.7
2	*5320.00	107.0 AV			1.39 V	342	67.3	39.7
3	5350.00	59.0 PK	74.0	-15.0	2.07 V	346	55.1	3.9
4	5350.00	46.8 AV	54.0	-7.2	2.07 V	346	42.9	3.9
5	10640.00	59.7 PK	74.0	-14.3	2.29 V	35	42.4	17.3
6	10640.00	46.7 AV	54.0	-7.3	2.29 V	35	29.4	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	55.9 PK	74.0	-18.1	1.79 H	323	51.9	4.0
2	5460.00	43.9 AV	54.0	-10.1	1.79 H	323	39.9	4.0
3	#5470.00	57.8 PK	74.0	-16.2	1.69 H	356	53.8	4.0
4	#5470.00	44.4 AV	54.0	-9.6	1.69 H	356	40.4	4.0
5	*5500.00	118.3 PK			1.54 H	345	78.3	40.0
6	*5500.00	107.7 AV			1.54 H	345	67.7	40.0
7	11000.00	61.2 PK	74.0	-12.8	1.79 H	311	42.2	19.0
8	11000.00	47.2 AV	54.0	-6.8	1.79 H	311	28.2	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	57.2 PK	74.0	-16.8	1.69 V	351	53.2	4.0
2	5460.00	44.7 AV	54.0	-9.3	1.69 V	351	40.7	4.0
3	#5470.00	59.5 PK	74.0	-14.5	1.54 V	352	55.5	4.0
4	#5470.00	46.3 AV	54.0	-7.7	1.54 V	352	42.3	4.0
5	*5500.00	118.5 PK			1.64 V	357	78.5	40.0
6	*5500.00	107.5 AV			1.64 V	357	67.5	40.0
7	11000.00	60.7 PK	74.0	-13.3	1.79 V	301	41.7	19.0
8	11000.00	47.1 AV	54.0	-6.9	1.79 V	301	28.1	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	118.2 PK			1.51 H	342	78.1	40.1
2	*5580.00	107.8 AV			1.51 H	342	67.7	40.1
3	11160.00	60.9 PK	74.0	-13.1	1.73 H	333	42.2	18.7
4	11160.00	46.8 AV	54.0	-7.2	1.73 H	333	28.1	18.7
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	*5580.00	119.2 PK			1.58 V	341	79.1	40.1
2	*5580.00	108.2 AV			1.58 V	341	68.1	40.1
3	11160.00	59.7 PK	74.0	-14.3	1.71 V	351	41.0	18.7
4	11160.00	46.7 AV	54.0	-7.3	1.71 V	351	28.0	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	118.2 PK			1.50 H	346	77.9	40.3
2	*5700.00	107.8 AV			1.50 H	346	67.5	40.3
3	#5725.00	61.3 PK	74.0	-12.7	1.45 H	343	56.8	4.5
4	#5725.00	48.4 AV	54.0	-5.6	1.45 H	343	43.9	4.5
5	11400.00	61.8 PK	74.0	-12.2	1.61 H	337	43.6	18.2
6	11400.00	47.6 AV	54.0	-6.4	1.61 H	337	29.4	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	119.4 PK			1.57 V	336	79.1	40.3
2	*5700.00	108.4 AV			1.57 V	336	68.1	40.3
3	#5725.00	60.1 PK	74.0	-13.9	1.66 V	331	55.6	4.5
4	#5725.00	47.8 AV	54.0	-6.2	1.66 V	331	43.3	4.5
5	11140.00	60.2 PK	74.0	-13.8	1.83 V	352	41.6	18.6
6	11140.00	47.0 AV	54.0	-7.0	1.83 V	352	28.4	18.6

Remark:

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

802.11n (HT40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	1.70 H	355	52.8	3.6
2	5150.00	45.2 AV	54.0	-8.8	1.70 H	355	41.6	3.6
3	*5270.00	114.0 PK			1.61 H	338	74.4	39.6
4	*5270.00	104.5 AV			1.61 H	338	64.9	39.6
5	#10540.00	58.9 PK	74.0	-15.1	2.06 H	311	41.8	17.1
6	#10540.00	46.0 AV	54.0	-8.0	2.06 H	311	28.9	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	1.60 V	359	51.8	3.6
2	5150.00	44.5 AV	54.0	-9.5	1.60 V	359	40.9	3.6
3	*5270.00	114.7 PK			1.55 V	345	75.1	39.6
4	*5270.00	104.5 AV			1.55 V	345	64.9	39.6
5	#10540.00	58.6 PK	74.0	-15.4	1.45 V	11	41.5	17.1
6	#10540.00	45.5 AV	54.0	-8.5	1.45 V	11	28.4	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	112.9 PK			1.70 H	340	73.3	39.6
2	*5310.00	103.7 AV			1.70 H	340	64.1	39.6
3	5350.00	60.8 PK	74.0	-13.2	1.74 H	353	56.9	3.9
4	5350.00	49.7 AV	54.0	-4.3	1.74 H	353	45.8	3.9
5	10620.00	58.9 PK	74.0	-15.1	2.28 H	309	41.6	17.3
6	10620.00	45.9 AV	54.0	-8.1	2.28 H	309	28.6	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	113.5 PK			1.56 V	344	73.9	39.6
2	*5310.00	103.6 AV			1.56 V	344	64.0	39.6
3	5350.00	62.8 PK	74.0	-11.2	1.55 V	341	58.9	3.9
4	5350.00	51.6 AV	54.0	-2.4	1.55 V	341	47.7	3.9
5	10620.00	58.5 PK	74.0	-15.5	1.44 V	13	41.2	17.3
6	10620.00	45.4 AV	54.0	-8.6	1.44 V	13	28.1	17.3

Remark:

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

CHANNEL	TX Channel 102	DETECTOR 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	5460.00	59.2 PK	74.0	-14.8	1.99 H	321	55.2	4.0
2	5460.00	45.6 AV	54.0	-8.4	1.99 H	321	41.6	4.0
3	#5470.00	65.3 PK	74.0	-8.7	1.90 H	343	61.3	4.0
4	#5470.00	51.9 AV	54.0	-2.1	1.90 H	343	47.9	4.0
5	*5510.00	115.5 PK			1.90 H	354	75.5	40.0
6	*5510.00	105.5 AV			1.90 H	354	65.5	40.0
7	11020.00	61.0 PK	74.0	-13.0	2.21 H	293	42.1	18.9
8	11020.00	47.7 AV	54.0	-6.3	2.21 H	293	28.8	18.9
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	5460.00	62.5 PK	74.0	-11.5	1.77 V	350	58.5	4.0
2	5460.00	48.6 AV	54.0	-5.4	1.77 V	350	44.6	4.0
3	#5470.00	66.2 PK	74.0	-7.8	1.81 V	357	62.2	4.0
4	#5470.00	51.9 AV	54.0	-2.1	1.81 V	357	47.9	4.0
5	*5510.00	115.2 PK			1.75 V	358	75.2	40.0
6	*5510.00	104.7 AV			1.75 V	358	64.7	40.0
7	11020.00	60.8 PK	74.0	-13.2	1.89 V	323	41.9	18.9
8	11020.00	47.5 AV	54.0	-6.5	1.89 V	323	28.6	18.9

Remark:

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	115.3 PK			1.68 H	350	75.3	40.0
2	*5550.00	105.0 AV			1.68 H	350	65.0	40.0
3	11100.00	60.8 PK	74.0	-13.2	1.83 H	323	42.3	18.5
4	11100.00	47.3 AV	54.0	-6.7	1.83 H	323	28.8	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	115.9 PK			1.77 V	353	75.9	40.0
2	*5550.00	105.5 AV			1.77 V	353	65.5	40.0
3	11100.00	60.5 PK	74.0	-13.5	1.89 V	342	42.0	18.5
4	11100.00	47.0 AV	54.0	-7.0	1.89 V	342	28.5	18.5

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	114.4 PK			1.69 H	345	74.1	40.3
2	*5670.00	104.8 AV			1.69 H	345	64.5	40.3
3	#5725.00	59.2 PK	74.0	-14.8	1.84 H	342	54.7	4.5
4	#5725.00	46.2 AV	54.0	-7.8	1.84 H	342	41.7	4.5
5	11340.00	61.5 PK	74.0	-12.5	1.92 H	340	43.1	18.4
6	11340.00	47.9 AV	54.0	-6.1	1.92 H	340	29.5	18.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	113.9 PK			1.70 V	352	73.6	40.3
2	*5670.00	104.5 AV			1.70 V	352	64.2	40.3
3	#5725.00	58.6 PK	74.0	-15.4	1.67 V	339	54.1	4.5
4	#5725.00	45.5 AV	54.0	-8.5	1.67 V	339	41.0	4.5
5	11340.00	61.1 PK	74.0	-12.9	1.81 V	323	42.7	18.4
6	11340.00	47.1 AV	54.0	-6.9	1.81 V	323	28.7	18.4

Remark:

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

802.11ac (VHT80)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	1.72 H	333	52.8	3.6
2	5150.00	45.2 AV	54.0	-8.8	1.72 H	333	41.6	3.6
3	*5290.00	109.6 PK			1.82 H	340	70.0	39.6
4	*5290.00	99.9 AV			1.82 H	340	60.3	39.6
5	5350.00	65.6 PK	74.0	-8.4	1.74 H	337	61.7	3.9
6	5350.00	52.9 AV	54.0	-1.1	1.74 H	337	49.0	3.9
7	#10580.00	58.4 PK	74.0	-15.6	2.18 H	296	41.2	17.2
8	#10580.00	45.4 AV	54.0	-8.6	2.18 H	296	28.2	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.7 PK	74.0	-17.3	1.70 V	348	53.1	3.6
2	5150.00	45.7 AV	54.0	-8.3	1.70 V	348	42.1	3.6
3	*5290.00	110.1 PK			1.58 V	337	70.5	39.6
4	*5290.00	100.5 AV			1.58 V	337	60.9	39.6
5	5350.00	67.4 PK	74.0	-6.6	1.65 V	352	63.5	3.9
6	5350.00	52.7 AV	54.0	-1.3	1.65 V	352	48.8	3.9
7	#10580.00	58.3 PK	74.0	-15.7	1.58 V	29	41.1	17.2
8	#10580.00	45.2 AV	54.0	-8.8	1.58 V	29	28.0	17.2

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	65.9 PK	74.0	-8.1	1.59 H	350	61.9	4.0
2	5460.00	49.2 AV	54.0	-4.8	1.59 H	350	45.2	4.0
3	#5470.00	64.4 PK	74.0	-9.6	1.55 H	343	60.4	4.0
4	#5470.00	50.5 AV	54.0	-3.5	1.55 H	343	46.5	4.0
5	*5530.00	107.7 PK			2.01 H	346	67.7	40.0
6	*5530.00	97.7 AV			2.01 H	346	57.7	40.0
7	#5725.00	56.0 PK	74.0	-18.0	1.71 H	357	51.5	4.5
8	#5725.00	42.0 AV	54.0	-12.0	1.71 H	357	37.5	4.5
9	11060.00	59.9 PK	74.0	-14.1	1.91 H	334	41.3	18.6
10	11060.00	46.7 AV	54.0	-7.3	1.91 H	334	28.1	18.6
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	5460.00	64.2 PK	74.0	-9.8	1.66 V	349	60.2	4.0
2	5460.00	51.9 AV	54.0	-2.1	1.66 V	349	47.9	4.0
3	#5470.00	65.5 PK	74.0	-8.5	1.71 V	353	61.5	4.0
4	#5470.00	52.3 AV	54.0	-1.7	1.71 V	353	48.3	4.0
5	*5530.00	108.2 PK			1.70 V	357	68.2	40.0
6	*5530.00	97.9 AV			1.70 V	357	57.9	40.0
7	#5725.00	57.7 PK	74.0	-16.3	1.83 V	341	53.2	4.5
8	#5725.00	43.5 AV	54.0	-10.5	1.83 V	341	39.0	4.5
9	11060.00	60.8 PK	74.0	-13.2	1.84 V	341	42.2	18.6
10	11060.00	47.3 AV	54.0	-6.7	1.84 V	341	28.7	18.6

Remark:

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

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	51.0 PK	74.0	-23.0	1.87 H	352	47.0	4.0
2	5460.00	38.7 AV	54.0	-15.3	1.87 H	352	34.7	4.0
3	#5470.00	53.0 PK	74.0	-21.0	1.93 H	355	49.0	4.0
4	#5470.00	39.4 AV	54.0	-14.6	1.93 H	355	35.4	4.0
5	*5610.00	108.2 PK			1.77 H	347	68.0	40.2
6	*5610.00	97.0 AV			1.77 H	347	56.8	40.2
7	#5725.00	53.4 PK	74.0	-20.6	1.79 H	344	48.9	4.5
8	#5725.00	40.4 AV	54.0	-13.6	1.79 H	344	35.9	4.5
9	11220.00	56.9 PK	74.0	-17.1	2.03 H	277	38.0	18.9
10	11220.00	44.0 AV	54.0	-10.0	2.03 H	277	25.1	18.9
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	5460.00	50.8 PK	74.0	-23.2	1.87 V	344	46.8	4.0
2	5460.00	38.8 AV	54.0	-15.2	1.87 V	344	34.8	4.0
3	#5470.00	52.0 PK	74.0	-22.0	1.93 V	353	48.0	4.0
4	#5470.00	39.0 AV	54.0	-15.0	1.93 V	353	35.0	4.0
5	*5610.00	103.1 PK			1.70 V	336	62.9	40.2
6	*5610.00	92.7 AV			1.70 V	336	52.5	40.2
7	#5725.00	54.0 PK	74.0	-20.0	2.03 V	333	49.5	4.5
8	#5725.00	40.5 AV	54.0	-13.5	2.03 V	333	36.0	4.5
9	11220.00	56.8 PK	74.0	-17.2	1.99 V	233	37.9	18.9
10	11220.00	44.4 AV	54.0	-9.6	1.99 V	233	25.5	18.9

Remark:

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

Below 1GHz Worst-Case Data: 802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	88.23	32.5 QP	43.5	-11.0	1.49 H	214	52.3	-19.8
2	160.17	31.4 QP	43.5	-12.1	1.50 H	267	45.2	-13.8
3	282.66	27.5 QP	46.0	-18.5	1.00 H	57	40.6	-13.1
4	344.87	28.8 QP	46.0	-17.2	1.00 H	125	40.9	-12.1
5	702.62	39.2 QP	46.0	-6.8	1.00 H	177	45.2	-6.0
6	751.23	44.1 QP	46.0	-1.9	1.00 H	179	49.0	-4.9
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	37.68	33.1 QP	40.0	-6.9	1.00 V	182	48.6	-15.5
2	88.23	28.9 QP	43.5	-14.6	1.49 V	199	48.7	-19.8
3	167.94	26.8 QP	43.5	-16.7	1.00 V	18	40.9	-14.1
4	344.87	33.8 QP	46.0	-12.2	1.49 V	88	45.9	-12.1
5	657.91	36.1 QP	46.0	-9.9	1.50 V	135	42.8	-6.7
6	751.23	44.4 QP	46.0	-1.6	1.00 V	136	49.3	-4.9

Remarks:

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

Test Mode F

802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.4 PK	74.0	-16.6	1.55 H	350	53.8	3.6
2	5150.00	45.8 AV	54.0	-8.2	1.55 H	350	42.2	3.6
3	*5260.00	115.5 PK			1.50 H	359	75.9	39.6
4	*5260.00	105.0 AV			1.50 H	359	65.4	39.6
5	#10520.00	59.7 PK	74.0	-14.3	1.79 H	321	42.7	17.0
6	#10520.00	46.8 AV	54.0	-7.2	1.79 H	321	29.8	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.76 V	349	54.5	3.6
2	5150.00	46.2 AV	54.0	-7.8	1.76 V	349	42.6	3.6
3	*5260.00	118.2 PK			1.64 V	353	78.6	39.6
4	*5260.00	107.8 AV			1.64 V	353	68.2	39.6
5	#10520.00	60.3 PK	74.0	-13.7	2.07 V	69	43.3	17.0
6	#10520.00	47.5 AV	54.0	-6.5	2.07 V	69	30.5	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	112.2 PK			1.94 H	342	72.6	39.6
2	*5300.00	102.6 AV			1.94 H	342	63.0	39.6
3	10600.00	60.1 PK	74.0	-13.9	1.51 H	317	43.0	17.1
4	10600.00	47.3 AV	54.0	-6.7	1.51 H	317	30.2	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	116.8 PK			1.65 V	353	77.2	39.6
2	*5300.00	106.5 AV			1.65 V	353	66.9	39.6
3	10600.00	60.3 PK	74.0	-13.7	2.10 V	77	43.2	17.1
4	10600.00	47.7 AV	54.0	-6.3	2.10 V	77	30.6	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	112.9 PK			1.71 H	339	73.2	39.7
2	*5320.00	102.6 AV			1.71 H	339	62.9	39.7
3	5350.00	55.3 PK	74.0	-18.7	1.69 H	348	51.4	3.9
4	5350.00	44.8 AV	54.0	-9.2	1.69 H	348	40.9	3.9
5	10640.00	60.1 PK	74.0	-13.9	1.61 H	294	42.8	17.3
6	10640.00	46.9 AV	54.0	-7.1	1.61 H	294	29.6	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	118.3 PK			1.59 V	354	78.6	39.7
2	*5320.00	107.6 AV			1.59 V	354	67.9	39.7
3	5350.00	58.9 PK	74.0	-15.1	1.70 V	349	55.0	3.9
4	5350.00	46.8 AV	54.0	-7.2	1.70 V	349	42.9	3.9
5	10640.00	60.4 PK	74.0	-13.6	2.09 V	66	43.1	17.3
6	10640.00	47.7 AV	54.0	-6.3	2.09 V	66	30.4	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	56.2 PK	74.0	-17.8	1.60 H	351	52.2	4.0
2	5460.00	44.8 AV	54.0	-9.2	1.60 H	351	40.8	4.0
3	#5470.00	56.2 PK	74.0	-17.8	1.58 H	345	52.2	4.0
4	#5470.00	46.0 AV	54.0	-8.0	1.58 H	345	42.0	4.0
5	*5500.00	111.2 PK			1.62 H	336	71.2	40.0
6	*5500.00	101.4 AV			1.62 H	336	61.4	40.0
7	11000.00	61.6 PK	74.0	-12.4	1.90 H	308	42.6	19.0
8	11000.00	48.6 AV	54.0	-5.4	1.90 H	308	29.6	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.8 PK	74.0	-17.2	1.80 V	345	52.8	4.0
2	5460.00	45.8 AV	54.0	-8.2	1.80 V	345	41.8	4.0
3	#5470.00	57.6 PK	74.0	-16.4	1.77 V	350	53.6	4.0
4	#5470.00	46.6 AV	54.0	-7.4	1.77 V	350	42.6	4.0
5	*5500.00	116.7 PK			1.51 V	331	76.7	40.0
6	*5500.00	106.3 AV			1.51 V	331	66.3	40.0
7	11000.00	62.8 PK	74.0	-11.2	2.11 V	80	43.8	19.0
8	11000.00	49.7 AV	54.0	-4.3	2.11 V	80	30.7	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	112.2 PK			1.72 H	352	72.1	40.1
2	*5580.00	102.0 AV			1.72 H	352	61.9	40.1
3	11160.00	62.2 PK	74.0	-11.8	1.52 H	296	43.5	18.7
4	11160.00	49.2 AV	54.0	-4.8	1.52 H	296	30.5	18.7
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	*5580.00	117.6 PK			1.58 V	357	77.5	40.1
2	*5580.00	106.4 AV			1.58 V	357	66.3	40.1
3	11160.00	62.6 PK	74.0	-11.4	2.09 V	82	43.9	18.7
4	11160.00	49.8 AV	54.0	-4.2	2.09 V	82	31.1	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	113.0 PK			1.75 H	5	72.7	40.3
2	*5700.00	102.3 AV			1.75 H	5	62.0	40.3
3	#5725.00	58.0 PK	74.0	-16.0	1.78 H	9	53.5	4.5
4	#5725.00	47.0 AV	54.0	-7.0	1.78 H	9	42.5	4.5
5	11400.00	61.3 PK	74.0	-12.7	1.62 H	279	43.1	18.2
6	11400.00	47.6 AV	54.0	-6.4	1.62 H	279	29.4	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	116.1 PK			1.59 V	358	75.8	40.3
2	*5700.00	105.8 AV			1.59 V	358	65.5	40.3
3	#5725.00	58.3 PK	74.0	-15.7	1.60 V	357	53.8	4.5
4	#5725.00	47.3 AV	54.0	-6.7	1.60 V	357	42.8	4.5
5	11400.00	61.9 PK	74.0	-12.1	2.18 V	85	43.7	18.2
6	11400.00	49.1 AV	54.0	-4.9	2.18 V	85	30.9	18.2

Remark:

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

802.11n (HT20)

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	1.76 H	340	52.8	3.6
2	5150.00	45.2 AV	54.0	-8.8	1.76 H	340	41.6	3.6
3	*5260.00	114.4 PK			1.80 H	337	74.8	39.6
4	*5260.00	103.8 AV			1.80 H	337	64.2	39.6
5	#10520.00	60.0 PK	74.0	-14.0	1.34 H	330	43.0	17.0
6	#10520.00	47.0 AV	54.0	-7.0	1.34 H	330	30.0	17.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.2 PK	74.0	-16.8	1.57 V	355	53.6	3.6
2	5150.00	46.0 AV	54.0	-8.0	1.57 V	355	42.4	3.6
3	*5260.00	118.2 PK			1.56 V	354	78.6	39.6
4	*5260.00	107.2 AV			1.56 V	354	67.6	39.6
5	#10520.00	60.3 PK	74.0	-13.7	2.11 V	65	43.3	17.0
6	#10520.00	47.9 AV	54.0	-6.1	2.11 V	65	30.9	17.0

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	113.2 PK			1.84 H	342	73.6	39.6
2	*5300.00	102.8 AV			1.84 H	342	63.2	39.6
3	10600.00	60.5 PK	74.0	-13.5	1.44 H	322	43.4	17.1
4	10600.00	47.5 AV	54.0	-6.5	1.44 H	322	30.4	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	117.9 PK			1.56 V	351	78.3	39.6
2	*5300.00	107.0 AV			1.56 V	351	67.4	39.6
3	10600.00	60.9 PK	74.0	-13.1	2.10 V	58	43.8	17.1
4	10600.00	48.1 AV	54.0	-5.9	2.10 V	58	31.0	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	112.6 PK			1.85 H	341	72.9	39.7
2	*5320.00	102.3 AV			1.85 H	341	62.6	39.7
3	5350.00	59.4 PK	74.0	-14.6	1.77 H	345	55.5	3.9
4	5350.00	47.9 AV	54.0	-6.1	1.77 H	345	44.0	3.9
5	10640.00	60.5 PK	74.0	-13.5	1.46 H	316	43.2	17.3
6	10640.00	47.6 AV	54.0	-6.4	1.46 H	316	30.3	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	118.6 PK			1.58 V	349	78.9	39.7
2	*5320.00	107.7 AV			1.58 V	349	68.0	39.7
3	5350.00	56.7 PK	74.0	-17.3	1.63 V	350	52.8	3.9
4	5350.00	45.6 AV	54.0	-8.4	1.63 V	350	41.7	3.9
5	10640.00	61.0 PK	74.0	-13.0	2.13 V	56	43.7	17.3
6	10640.00	48.2 AV	54.0	-5.8	2.13 V	56	30.9	17.3

Remark:

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

CHANNEL	TX Channel 100	DETECTOR 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	5460.00	55.2 PK	74.0	-18.8	1.75 H	349	51.2	4.0
2	5460.00	44.5 AV	54.0	-9.5	1.75 H	349	40.5	4.0
3	#5470.00	57.6 PK	74.0	-16.4	1.69 H	359	53.6	4.0
4	#5470.00	47.7 AV	54.0	-6.3	1.69 H	359	43.7	4.0
5	*5500.00	111.5 PK			1.68 H	349	71.5	40.0
6	*5500.00	100.9 AV			1.68 H	349	60.9	40.0
7	11000.00	62.7 PK	74.0	-11.3	1.50 H	287	43.7	19.0
8	11000.00	49.8 AV	54.0	-4.2	1.50 H	287	30.8	19.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	57.0 PK	74.0	-17.0	1.79 V	343	53.0	4.0
2	5460.00	46.0 AV	54.0	-8.0	1.79 V	343	42.0	4.0
3	#5470.00	57.8 PK	74.0	-16.2	1.68 V	339	53.8	4.0
4	#5470.00	47.0 AV	54.0	-7.0	1.68 V	339	43.0	4.0
5	*5500.00	117.4 PK			1.66 V	335	77.4	40.0
6	*5500.00	106.5 AV			1.66 V	335	66.5	40.0
7	11000.00	63.1 PK	74.0	-10.9	2.20 V	87	44.1	19.0
8	11000.00	50.3 AV	54.0	-3.7	2.20 V	87	31.3	19.0

Remark:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	111.8 PK			1.67 H	347	71.7	40.1
2	*5580.00	101.1 AV			1.67 H	347	61.0	40.1
3	11160.00	62.5 PK	74.0	-11.5	1.46 H	293	43.8	18.7
4	11160.00	49.7 AV	54.0	-4.3	1.46 H	293	31.0	18.7
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	*5580.00	116.2 PK			1.66 V	336	76.1	40.1
2	*5580.00	104.7 AV			1.66 V	336	64.6	40.1
3	11160.00	62.9 PK	74.0	-11.1	2.21 V	90	44.2	18.7
4	11160.00	50.2 AV	54.0	-3.8	2.21 V	90	31.5	18.7

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	112.4 PK			1.74 H	3	72.1	40.3
2	*5700.00	102.2 AV			1.74 H	3	61.9	40.3
3	#5725.00	57.8 PK	74.0	-16.2	1.71 H	329	53.3	4.5
4	#5725.00	45.2 AV	54.0	-8.8	1.71 H	329	40.7	4.5
5	11400.00	61.3 PK	74.0	-12.7	1.41 H	279	43.1	18.2
6	11400.00	48.1 AV	54.0	-5.9	1.41 H	279	29.9	18.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	116.8 PK			1.66 V	4	76.5	40.3
2	*5700.00	105.9 AV			1.66 V	4	65.6	40.3
3	#5725.00	58.1 PK	74.0	-15.9	1.68 V	359	53.6	4.5
4	#5725.00	47.0 AV	54.0	-7.0	1.68 V	359	42.5	4.5
5	11400.00	62.0 PK	74.0	-12.0	2.26 V	89	43.8	18.2
6	11400.00	49.1 AV	54.0	-4.9	2.26 V	89	30.9	18.2

Remark:

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

802.11n (HT40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	1.80 H	339	51.5	3.6
2	5150.00	43.8 AV	54.0	-10.2	1.80 H	339	40.2	3.6
3	*5270.00	111.1 PK			1.64 H	340	71.5	39.6
4	*5270.00	101.2 AV			1.64 H	340	61.6	39.6
5	#10540.00	58.9 PK	74.0	-15.1	1.85 H	307	41.8	17.1
6	#10540.00	45.9 AV	54.0	-8.1	1.85 H	307	28.8	17.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.5 PK	74.0	-18.5	1.58 V	356	51.9	3.6
2	5150.00	44.4 AV	54.0	-9.6	1.58 V	356	40.8	3.6
3	*5270.00	114.5 PK			1.58 V	346	74.9	39.6
4	*5270.00	104.5 AV			1.58 V	346	64.9	39.6
5	#10540.00	59.3 PK	74.0	-14.7	2.15 V	54	42.2	17.1
6	#10540.00	46.3 AV	54.0	-7.7	2.15 V	54	29.2	17.1

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	109.3 PK			1.57 H	340	69.7	39.6
2	*5310.00	100.0 AV			1.57 H	340	60.4	39.6
3	5350.00	56.2 PK	74.0	-17.8	1.76 H	323	52.3	3.9
4	5350.00	44.0 AV	54.0	-10.0	1.76 H	323	40.1	3.9
5	10620.00	58.8 PK	74.0	-15.2	1.72 H	309	41.5	17.3
6	10620.00	45.7 AV	54.0	-8.3	1.72 H	309	28.4	17.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	114.5 PK			1.55 V	346	74.9	39.6
2	*5310.00	104.3 AV			1.55 V	346	64.7	39.6
3	5350.00	59.6 PK	74.0	-14.4	1.53 V	355	55.7	3.9
4	5350.00	48.6 AV	54.0	-5.4	1.53 V	355	44.7	3.9
5	10620.00	59.1 PK	74.0	-14.9	2.21 V	47	41.8	17.3
6	10620.00	46.1 AV	54.0	-7.9	2.21 V	47	28.8	17.3

Remark:

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

CHANNEL	TX Channel 102	DETECTOR 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	5460.00	54.3 PK	74.0	-19.7	1.77 H	331	50.3	4.0
2	5460.00	43.9 AV	54.0	-10.1	1.77 H	331	39.9	4.0
3	#5470.00	55.8 PK	74.0	-18.2	1.69 H	356	51.8	4.0
4	#5470.00	45.3 AV	54.0	-8.7	1.69 H	356	41.3	4.0
5	*5510.00	108.5 PK			1.64 H	333	68.5	40.0
6	*5510.00	98.8 AV			1.64 H	333	58.8	40.0
7	11020.00	61.5 PK	74.0	-12.5	1.47 H	290	42.6	18.9
8	11020.00	48.2 AV	54.0	-5.8	1.47 H	290	29.3	18.9
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	5460.00	59.6 PK	74.0	-14.4	1.66 V	346	55.6	4.0
2	5460.00	49.3 AV	54.0	-4.7	1.66 V	346	45.3	4.0
3	#5470.00	64.3 PK	74.0	-9.7	1.67 V	348	60.3	4.0
4	#5470.00	51.5 AV	54.0	-2.5	1.67 V	348	47.5	4.0
5	*5510.00	114.3 PK			1.81 V	350	74.3	40.0
6	*5510.00	104.2 AV			1.81 V	350	64.2	40.0
7	11020.00	61.5 PK	74.0	-12.5	2.28 V	78	42.6	18.9
8	11020.00	48.5 AV	54.0	-5.5	2.28 V	78	29.6	18.9

Remark:

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	108.4 PK			1.52 H	351	68.4	40.0
2	*5550.00	98.6 AV			1.52 H	351	58.6	40.0
3	11100.00	60.9 PK	74.0	-13.1	1.49 H	292	42.4	18.5
4	11100.00	47.5 AV	54.0	-6.5	1.49 H	292	29.0	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	114.0 PK			1.68 V	352	74.0	40.0
2	*5550.00	103.7 AV			1.68 V	352	63.7	40.0
3	11100.00	61.1 PK	74.0	-12.9	2.29 V	68	42.6	18.5
4	11100.00	47.9 AV	54.0	-6.1	2.29 V	68	29.4	18.5

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	108.4 PK			1.67 H	350	68.1	40.3
2	*5670.00	99.3 AV			1.67 H	350	59.0	40.3
3	#5725.00	58.0 PK	74.0	-16.0	1.73 H	349	53.5	4.5
4	#5725.00	47.1 AV	54.0	-6.9	1.73 H	349	42.6	4.5
5	11340.00	60.2 PK	74.0	-13.8	1.53 H	295	41.8	18.4
6	11340.00	47.2 AV	54.0	-6.8	1.53 H	295	28.8	18.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	113.3 PK			1.58 V	357	73.0	40.3
2	*5670.00	103.0 AV			1.58 V	357	62.7	40.3
3	#5725.00	58.0 PK	74.0	-16.0	1.64 V	349	53.5	4.5
4	#5725.00	45.8 AV	54.0	-8.2	1.64 V	349	41.3	4.5
5	11340.00	60.6 PK	74.0	-13.4	2.30 V	58	42.2	18.4
6	11340.00	47.5 AV	54.0	-6.5	2.30 V	58	29.1	18.4

Remark:

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

802.11ac (VHT80)

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.3 PK	74.0	-18.7	1.87 H	340	51.7	3.6
2	5150.00	44.3 AV	54.0	-9.7	1.87 H	340	40.7	3.6
3	*5290.00	105.2 PK			1.53 H	345	65.6	39.6
4	*5290.00	95.1 AV			1.53 H	345	55.5	39.6
5	5350.00	58.5 PK	74.0	-15.5	1.99 H	339	54.6	3.9
6	5350.00	45.6 AV	54.0	-8.4	1.99 H	339	41.7	3.9
7	#10580.00	58.3 PK	74.0	-15.7	1.80 H	313	41.1	17.2
8	#10580.00	45.4 AV	54.0	-8.6	1.80 H	313	28.2	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	1.62 V	354	52.6	3.6
2	5150.00	44.6 AV	54.0	-9.4	1.62 V	354	41.0	3.6
3	*5290.00	109.2 PK			1.61 V	345	69.6	39.6
4	*5290.00	98.9 AV			1.61 V	345	59.3	39.6
5	5350.00	67.5 PK	74.0	-6.5	1.55 V	346	63.6	3.9
6	5350.00	52.6 AV	54.0	-1.4	1.55 V	346	48.7	3.9
7	#10580.00	58.6 PK	74.0	-15.4	2.22 V	43	41.4	17.2
8	#10580.00	45.7 AV	54.0	-8.3	2.22 V	43	28.5	17.2

Remark:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	57.4 PK	74.0	-16.6	1.70 H	334	53.4	4.0
2	5460.00	46.3 AV	54.0	-7.7	1.70 H	334	42.3	4.0
3	#5470.00	55.6 PK	74.0	-18.4	1.65 H	342	51.6	4.0
4	#5470.00	44.9 AV	54.0	-9.1	1.65 H	342	40.9	4.0
5	*5530.00	103.4 PK			1.52 H	334	63.4	40.0
6	*5530.00	93.4 AV			1.52 H	334	53.4	40.0
7	#5725.00	55.4 PK	74.0	-18.6	1.65 H	349	50.9	4.5
8	#5725.00	44.3 AV	54.0	-9.7	1.65 H	349	39.8	4.5
9	11060.00	59.8 PK	74.0	-14.2	1.80 H	288	41.2	18.6
10	11060.00	46.7 AV	54.0	-7.3	1.80 H	288	28.1	18.6
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	5460.00	66.4 PK	74.0	-7.6	1.72 V	344	62.4	4.0
2	5460.00	52.4 AV	54.0	-1.6	1.72 V	344	48.4	4.0
3	#5470.00	63.3 PK	74.0	-10.7	1.57 V	6	59.3	4.0
4	#5470.00	51.0 AV	54.0	-3.0	1.57 V	6	47.0	4.0
5	*5530.00	108.3 PK			1.64 V	351	68.3	40.0
6	*5530.00	98.0 AV			1.64 V	351	58.0	40.0
7	#5725.00	56.9 PK	74.0	-17.1	1.76 V	353	52.4	4.5
8	#5725.00	45.8 AV	54.0	-8.2	1.76 V	353	41.3	4.5
9	11060.00	60.2 PK	74.0	-13.8	2.36 V	51	41.6	18.6
10	11060.00	47.0 AV	54.0	-7.0	2.36 V	51	28.4	18.6

Remark:

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

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	51.4 PK	74.0	-22.6	1.77 H	339	47.4	4.0
2	5460.00	38.5 AV	54.0	-15.5	1.77 H	339	34.5	4.0
3	#5470.00	52.6 PK	74.0	-21.4	1.81 H	323	48.6	4.0
4	#5470.00	38.5 AV	54.0	-15.5	1.81 H	323	34.5	4.0
5	*5610.00	104.5 PK			1.59 H	355	64.3	40.2
6	*5610.00	93.9 AV			1.59 H	355	53.7	40.2
7	#5725.00	53.2 PK	74.0	-20.8	1.66 H	351	48.7	4.5
8	#5725.00	41.5 AV	54.0	-12.5	1.66 H	351	37.0	4.5
9	11220.00	56.8 PK	74.0	-17.2	1.78 H	222	37.9	18.9
10	11220.00	44.3 AV	54.0	-9.7	1.78 H	222	25.4	18.9
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	5460.00	51.2 PK	74.0	-22.8	1.66 V	333	47.2	4.0
2	5460.00	39.0 AV	54.0	-15.0	1.66 V	333	35.0	4.0
3	#5470.00	53.0 PK	74.0	-21.0	1.66 V	321	49.0	4.0
4	#5470.00	39.7 AV	54.0	-14.3	1.66 V	321	35.7	4.0
5	*5610.00	105.8 PK			1.53 V	343	65.6	40.2
6	*5610.00	95.2 AV			1.53 V	343	55.0	40.2
7	#5725.00	53.1 PK	74.0	-20.9	1.81 V	293	48.6	4.5
8	#5725.00	40.3 AV	54.0	-13.7	1.81 V	293	35.8	4.5
9	11220.00	57.7 PK	74.0	-16.3	1.89 V	288	38.8	18.9
10	11220.00	43.9 AV	54.0	-10.1	1.89 V	288	25.0	18.9

Remark:

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

Below 1GHz Worst-Case Data: 802.11a

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.90	25.5 QP	40.0	-14.5	1.49 H	248	41.9	-16.4
2	57.12	27.5 QP	40.0	-12.5	2.00 H	139	42.1	-14.6
3	150.45	32.0 QP	43.5	-11.5	2.00 H	8	46.1	-14.1
4	342.93	30.1 QP	46.0	-15.9	1.00 H	71	42.2	-12.1
5	700.68	39.9 QP	46.0	-6.1	2.00 H	130	45.9	-6.0
6	799.84	34.9 QP	46.0	-11.1	1.00 H	191	39.3	-4.4
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	45.45	19.7 QP	40.0	-20.3	1.01 V	22	34.4	-14.7
2	169.89	17.3 QP	43.5	-26.2	1.01 V	29	31.5	-14.2
3	342.93	22.6 QP	46.0	-23.4	1.01 V	149	34.7	-12.1
4	700.68	29.8 QP	46.0	-16.2	1.50 V	191	35.8	-6.0
5	799.84	31.7 QP	46.0	-14.3	1.01 V	143	36.1	-4.4
6	1000.00	30.2 QP	54.0	-23.8	1.01 V	10	31.5	-1.3

Remarks:

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

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 21, 2016	Nov. 20, 2017
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 22, 2016	Dec. 21, 2017
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Mar. 10, 2017	Mar. 09, 2018
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 15, 2017	Aug. 14, 2018
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1.
3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

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.

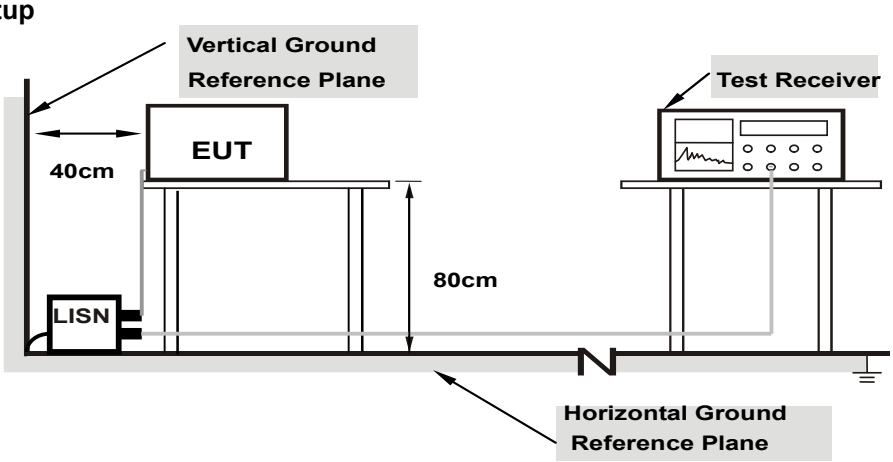
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

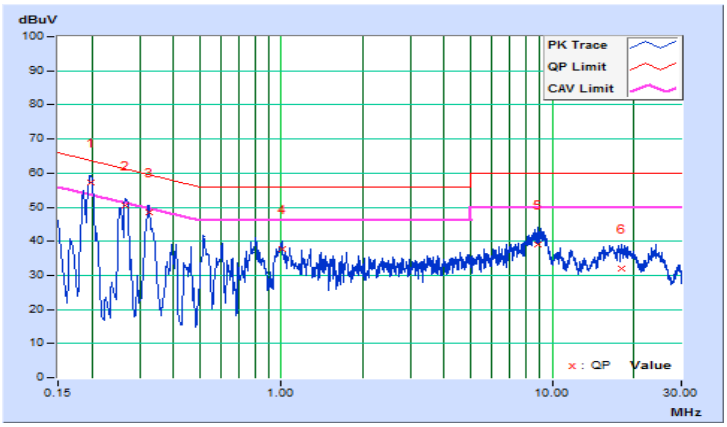
Test Mode A

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

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	0.19717	10.45	46.92	35.80	57.37	46.25	63.73	53.73	-6.36	-7.48
2	0.26730	10.47	40.07	25.33	50.54	35.80	61.20	51.20	-10.66	-15.40
3	0.32595	10.49	37.91	26.93	48.40	37.42	59.55	49.55	-11.15	-12.13
4	1.00998	10.48	27.31	16.92	37.79	27.40	56.00	46.00	-18.21	-18.60
5	8.91231	10.88	28.33	18.84	39.21	29.72	60.00	50.00	-20.79	-20.28
6	18.05389	11.33	20.61	12.52	31.94	23.85	60.00	50.00	-28.06	-26.15

Remarks:

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

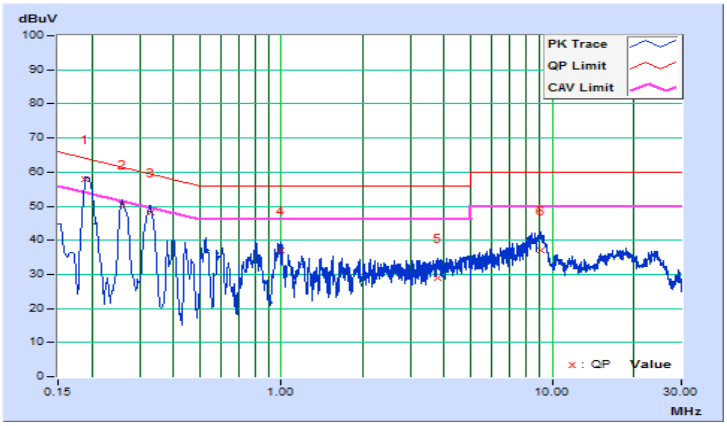


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	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	**0.18953**	**10.22**	**47.57**	**32.50**	**57.79**	**42.72**	**64.06**	**54.06**	**-6.27**	**-11.34**
2	0.25864	10.23	40.22	28.42	50.45	38.65	61.47	51.47	-11.02	-12.82
3	0.32786	10.23	37.83	28.85	48.06	39.08	59.51	49.51	-11.45	-10.43
4	1.00238	10.26	26.87	14.25	37.13	24.51	56.00	46.00	-18.87	-21.49
5	3.77066	10.40	18.66	7.98	29.06	18.38	56.00	46.00	-26.94	-27.62
6	9.04525	10.63	26.53	17.29	37.16	27.92	60.00	50.00	-22.84	-22.08

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.



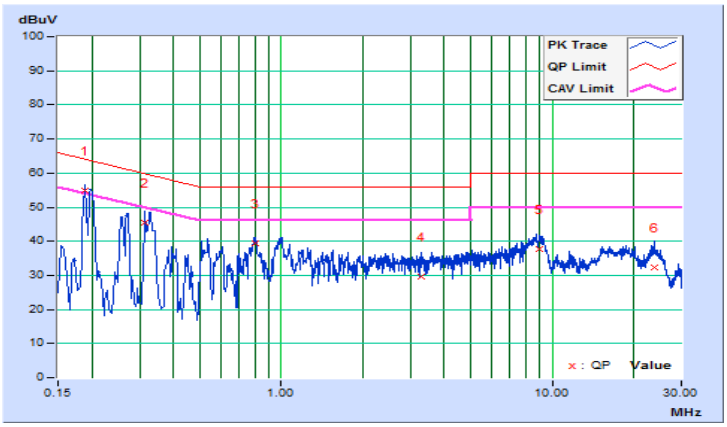
Test Mode B

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

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	0.18910	10.45	44.33	28.95	54.78	39.40	64.08	54.08	-9.30	-14.68
2	0.31422	10.49	34.83	20.26	45.32	30.75	59.86	49.86	-14.54	-19.11
3	0.80307	10.49	28.97	16.34	39.46	26.83	56.00	46.00	-16.54	-19.17
4	3.27800	10.60	19.09	8.93	29.69	19.53	56.00	46.00	-26.31	-26.47
5	8.92013	10.88	26.70	17.42	37.58	28.30	60.00	50.00	-22.42	-21.70
6	23.76249	11.58	20.88	14.79	32.46	26.37	60.00	50.00	-27.54	-23.63

Remarks:

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

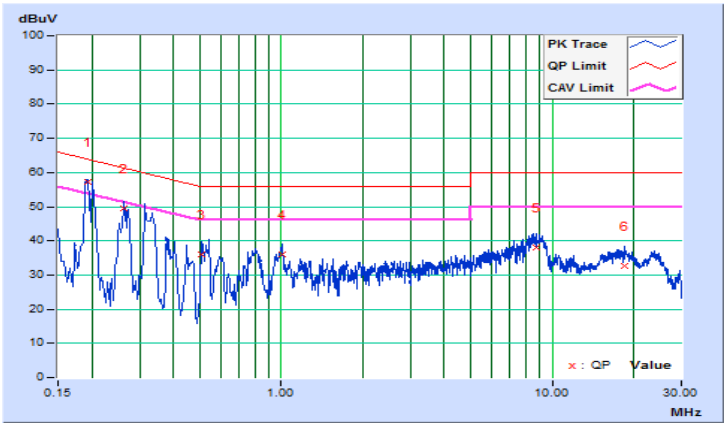


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	0.19255	10.22	46.94	34.64	57.16	44.86	63.93	53.93	-6.77	-9.07
2	0.26346	10.23	39.40	28.42	49.63	38.65	61.32	51.32	-11.69	-12.67
3	0.50972	10.24	25.84	14.14	36.08	24.38	56.00	46.00	-19.92	-21.62
4	1.01020	10.26	25.90	15.70	36.16	25.96	56.00	46.00	-19.84	-20.04
5	8.71290	10.61	27.27	17.74	37.88	28.35	60.00	50.00	-22.12	-21.65
6	18.43316	10.99	21.82	14.41	32.81	25.40	60.00	50.00	-27.19	-24.60

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.



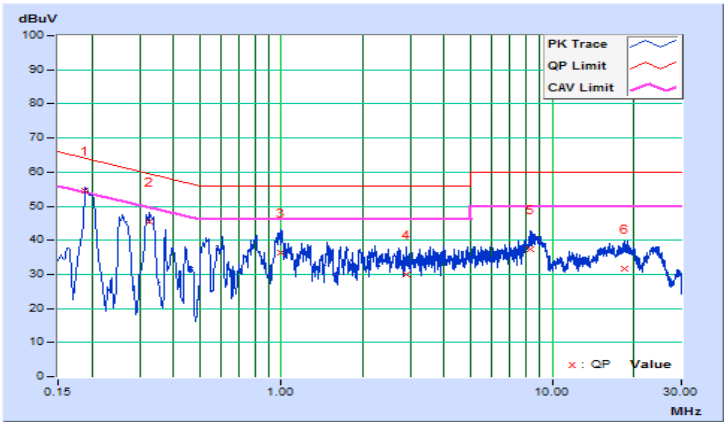
Test Mode C

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

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	0.18953	10.45	43.96	28.99	54.41	39.44	64.06	54.06	-9.65	-14.62
2	0.32614	10.49	35.10	25.55	45.59	36.04	59.55	49.55	-13.96	-13.51
3	0.99847	10.48	26.05	14.52	36.53	25.00	56.00	46.00	-19.47	-21.00
4	2.90655	10.58	19.25	9.50	29.83	20.08	56.00	46.00	-26.17	-25.92
5	8.31017	10.85	26.62	18.11	37.47	28.96	60.00	50.00	-22.53	-21.04
6	18.46444	11.35	20.21	13.53	31.56	24.88	60.00	50.00	-28.44	-25.12

Remarks:

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

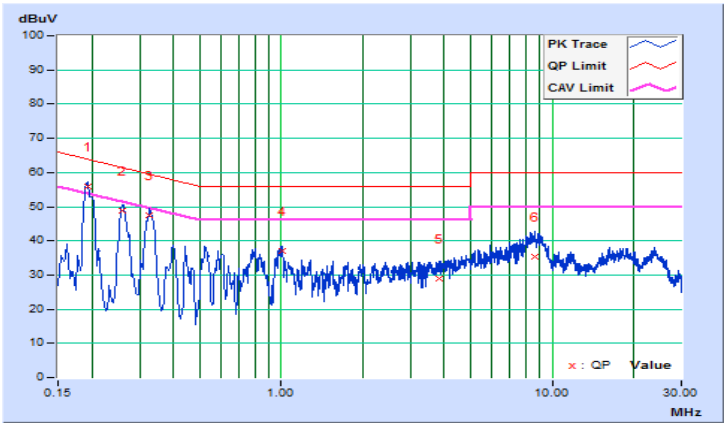


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	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	0.19305	10.22	45.84	34.04	56.06	44.26	63.90	53.90	-7.84	-9.64
2	0.26069	10.23	38.50	28.13	48.73	38.36	61.41	51.41	-12.68	-13.05
3	0.32528	10.23	37.22	28.64	47.45	38.87	59.57	49.57	-12.12	-10.70
4	1.00467	10.26	26.72	14.43	36.98	24.69	56.00	46.00	-19.02	-21.31
5	3.80976	10.40	18.69	7.96	29.09	18.36	56.00	46.00	-26.91	-27.64
6	8.67771	10.61	24.61	16.61	35.22	27.22	60.00	50.00	-24.78	-22.78

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.



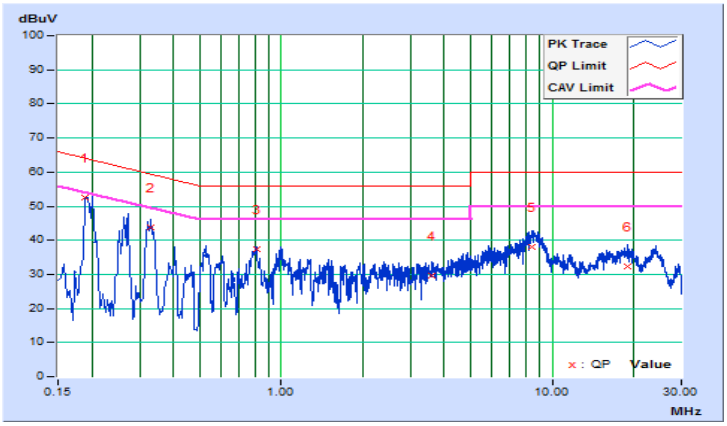
Test Mode D

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

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	0.18953	10.45	41.95	27.59	52.40	38.04	64.06	54.06	-11.66	-16.02
2	0.32986	10.49	33.12	24.46	43.61	34.95	59.45	49.45	-15.84	-14.50
3	0.81079	10.49	26.90	12.78	37.39	23.27	56.00	46.00	-18.61	-22.73
4	3.57907	10.62	18.99	7.92	29.61	18.54	56.00	46.00	-26.39	-27.46
5	8.42356	10.85	27.10	20.00	37.95	30.85	60.00	50.00	-22.05	-19.15
6	18.97665	11.37	21.02	13.59	32.39	24.96	60.00	50.00	-27.61	-25.04

Remarks:

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

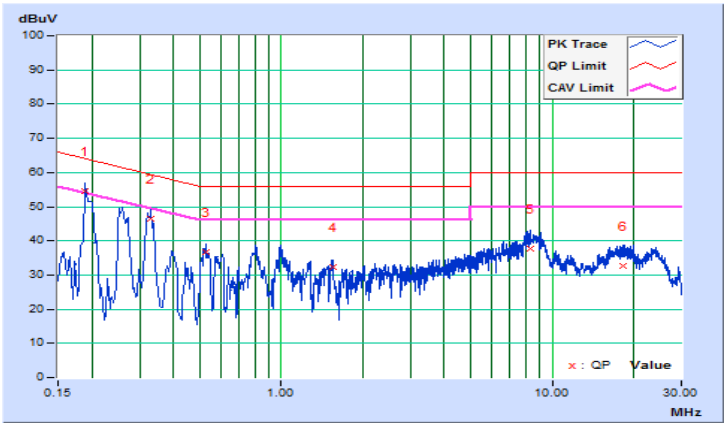


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	0.18910	10.22	44.24	29.54	54.46	39.76	64.08	54.08	-9.62	-14.32
2	0.32959	10.23	36.30	28.04	46.53	38.27	59.46	49.46	-12.93	-11.19
3	0.52536	10.24	26.38	15.16	36.62	25.40	56.00	46.00	-19.38	-20.60
4	1.55369	10.29	21.89	8.55	32.18	18.84	56.00	46.00	-23.82	-27.16
5	8.28671	10.59	27.11	19.19	37.70	29.78	60.00	50.00	-22.30	-20.22
6	18.19465	10.98	21.69	13.94	32.67	24.92	60.00	50.00	-27.33	-25.08

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.



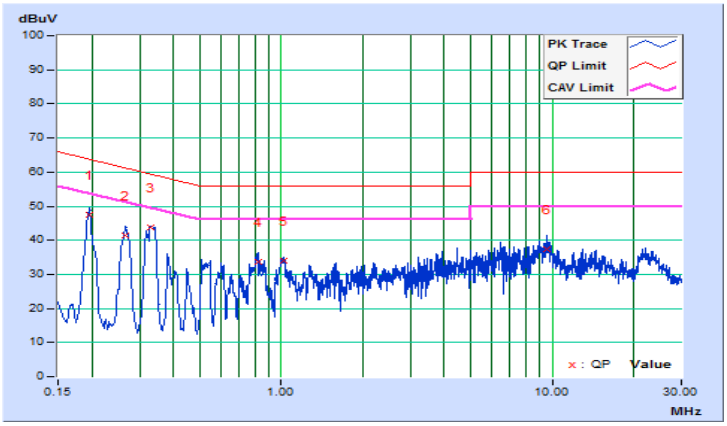
Test Mode E

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

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	0.19692	10.39	37.08	28.05	47.47	38.44	63.74	53.74	-16.27	-15.30
2	0.26730	10.40	30.97	24.01	41.37	34.41	61.20	51.20	-19.83	-16.79
3	0.32786	10.40	33.23	26.13	43.63	36.53	59.51	49.51	-15.88	-12.98
4	0.81861	10.42	23.14	8.43	33.56	18.85	56.00	46.00	-22.44	-27.15
5	1.01799	10.42	23.49	12.68	33.91	23.10	56.00	46.00	-22.09	-22.90
6	9.53791	10.84	26.37	16.14	37.21	26.98	60.00	50.00	-22.79	-23.02

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.

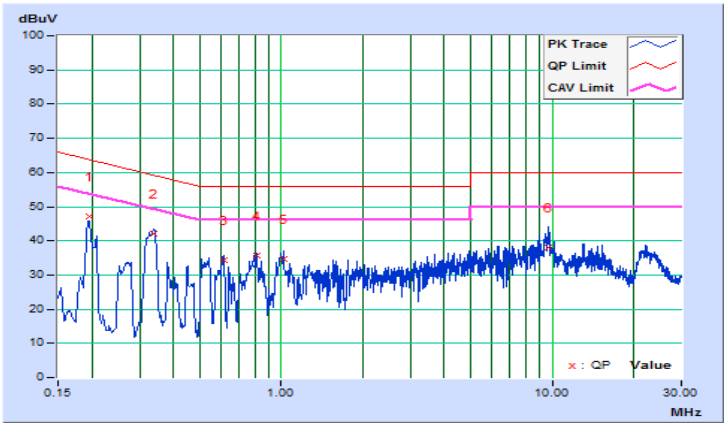


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

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	0.19510	10.16	37.10	27.51	47.26	37.67	63.82	53.82	-16.56	-16.15
2	0.33768	10.17	32.08	22.99	42.25	33.16	59.26	49.26	-17.01	-16.10
3	0.61220	10.18	24.23	10.32	34.41	20.50	56.00	46.00	-21.59	-25.50
4	0.81079	10.18	25.41	12.56	35.59	22.74	56.00	46.00	-20.41	-23.26
5	1.02193	10.19	24.55	13.23	34.74	23.42	56.00	46.00	-21.26	-22.58
6	9.66694	10.56	27.36	18.12	37.92	28.68	60.00	50.00	-22.08	-21.32

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.



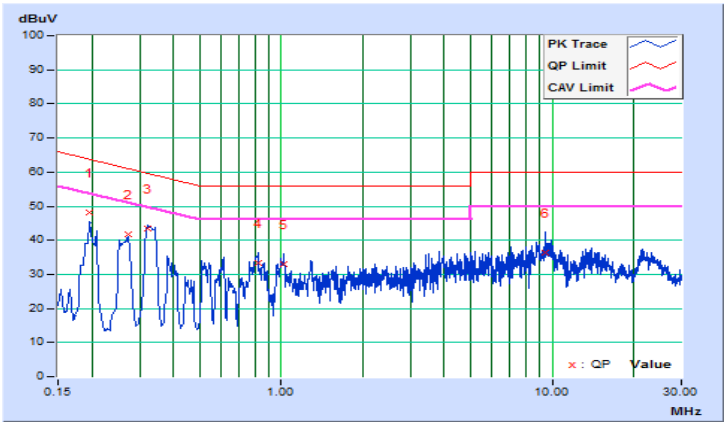
Test Mode F

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

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	0.19692	10.39	37.62	27.97	48.01	38.36	63.74	53.74	-15.73	-15.38
2	0.27120	10.40	31.20	21.42	41.60	31.82	61.08	51.08	-19.48	-19.26
3	0.32187	10.40	33.13	24.92	43.53	35.32	59.66	49.66	-16.13	-14.34
4	0.81861	10.42	23.04	8.39	33.46	18.81	56.00	46.00	-22.54	-27.19
5	1.02193	10.42	22.63	11.70	33.05	22.12	56.00	46.00	-22.95	-23.88
6	9.47144	10.83	25.43	15.37	36.26	26.20	60.00	50.00	-23.74	-23.80

Remarks:

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

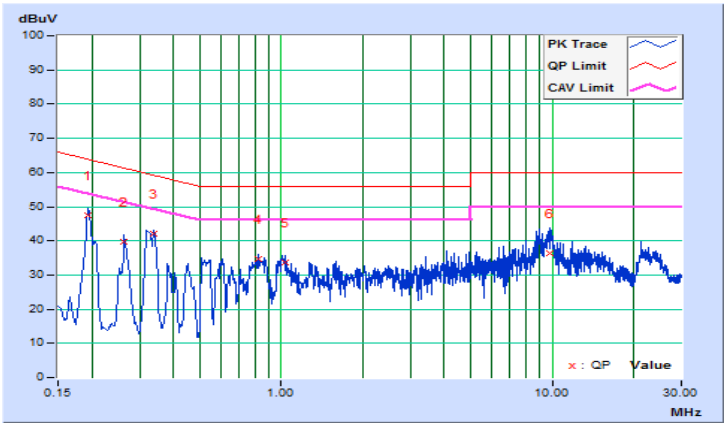


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	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	0.19305	10.16	37.34	26.19	47.50	36.35	63.90	53.90	-16.40	-17.55
2	0.26346	10.16	29.64	18.90	39.80	29.06	61.32	51.32	-21.52	-22.26
3	0.33768	10.17	32.02	22.91	42.19	33.08	59.26	49.26	-17.07	-16.18
4	0.81861	10.18	24.39	9.65	34.57	19.83	56.00	46.00	-21.43	-26.17
5	1.02975	10.19	23.35	9.79	33.54	19.98	56.00	46.00	-22.46	-26.02
6	9.78815	10.57	25.76	17.36	36.33	27.93	60.00	50.00	-23.67	-22.07

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.



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

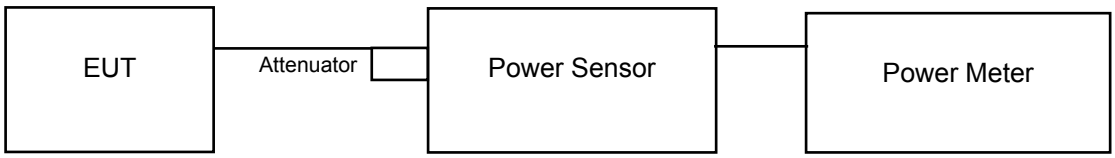
Operation Band	EUT Category		LIMIT
U-NII-1	---	Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
	---	Fixed point-to-point Access Point	1 Watt (30 dBm)
	---	Indoor Access Point	1 Watt (30 dBm)
	---	Mobile and Portable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

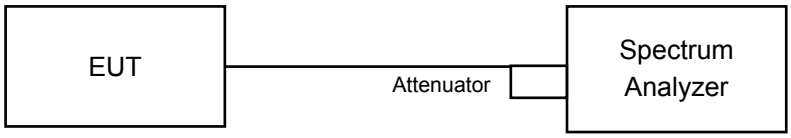
Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz 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

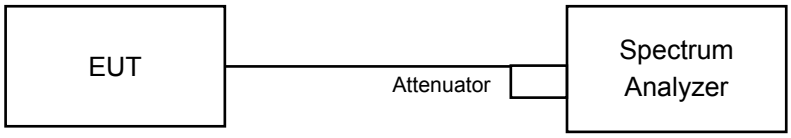
For Power Output Measurement
802.11a, 802.11n (HT20), 802.11n (HT40)



802.11ac (VHT80)



For 26dB Bandwidth



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

For 802.11a, 802.11n (HT20), 802.11n (HT40)
Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

For 802.11ac (VHT80)

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

For 26dB Bandwidth

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

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating 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

Test Mode A

Power Output:

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	Chain3				
52	5260	11.02	10.56	10.63	10.74	47.442	16.76	23.65	Pass
60	5300	10.72	10.84	11.16	10.63	48.560	16.86	23.63	Pass
64	5320	10.13	10.62	10.71	10.84	45.749	16.60	23.65	Pass
100	5500	9.31	9.01	9.21	9.41	33.560	15.26	23.68	Pass
116	5580	9.22	9.25	9.37	9.35	34.030	15.32	23.68	Pass
140	5700	9.78	9.80	9.23	9.11	35.578	15.51	23.69	Pass

*Max. gain: 6.3dBi >6dBi, so the power limit shall be reduced to “Determined Limit-(6.3-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(19.87) = 23.98 dBm < 24dBm
2. 11dBm + 10log(20.02) = 24.01 dBm > 24dBm
3. 11dBm + 10log(20.10) = 24.03 dBm > 24dBm
4. 11dBm + 10log(20.30) = 24.07 dBm > 24dBm
5. 11dBm + 10log(20.10) = 24.03 dBm > 24dBm
6. 11dBm + 10log(19.95) = 23.99 dBm > 24dBm
Chain 1
1. 11dBm + 10log(19.88) = 23.98 dBm < 24dBm
2. 11dBm + 10log(19.95) = 24.00 dBm = 24dBm
3. 11dBm + 10log(19.90) = 23.99 dBm < 24dBm
4. 11dBm + 10log(19.94) = 24.00 dBm = 24dBm
5. 11dBm + 10log(19.95) = 24.00 dBm = 24dBm
6. 11dBm + 10log(20.00) = 24.01 dBm > 24dBm
Chain 2
1. 11dBm + 10log(19.73) = 23.95 dBm < 24dBm
2. 11dBm + 10log(19.90) = 23.99 dBm < 24dBm
3. 11dBm + 10log(19.95) = 24.00 dBm = 24dBm
4. 11dBm + 10log(19.88) = 23.98 dBm < 24dBm
5. 11dBm + 10log(19.90) = 23.98 dBm < 24dBm
6. 11dBm + 10log(19.94) = 24.00 dBm = 24dBm
Chain 3
1. 11dBm + 10log(19.79) = 23.96 dBm < 24dBm
2. 11dBm + 10log(19.66) = 23.93 dBm < 24dBm
3. 11dBm + 10log(19.74) = 23.95 dBm < 24dBm
4. 11dBm + 10log(19.92) = 23.99 dBm < 24dBm
5. 11dBm + 10log(20.14) = 24.04 dBm > 24dBm
6. 11dBm + 10log(20.22) = 24.06 dBm > 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	10.01	10.91	10.27	10.05	43.111	16.35	23.70	Pass
60	5300	9.87	10.99	10.39	9.56	42.241	16.26	23.70	Pass
64	5320	9.71	11.02	10.31	9.54	41.736	16.21	23.70	Pass
100	5500	10.55	10.42	10.58	10.79	45.789	16.61	23.70	Pass
116	5580	10.97	10.98	10.24	10.23	46.146	16.64	23.70	Pass
140	5700	10.52	10.62	10.88	10.84	47.187	16.74	23.70	Pass

*Max. gain: 6.3dBi >6dBi, so the power limit shall be reduced to “Determined Limit-(6.3-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(20.78) = 24.18 dBm > 24dBm
2. 11dBm + 10log(20.68) = 24.16 dBm > 24dBm
3. 11dBm + 10log(20.85) = 24.19 dBm > 24dBm
4. 11dBm + 10log(20.64) = 24.15 dBm > 24dBm
5. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm
6. 11dBm + 10log(20.62) = 24.14 dBm > 24dBm
Chain 1
1. 11dBm + 10log(20.58) = 24.13 dBm > 24dBm
2. 11dBm + 10log(20.78) = 24.18 dBm > 24dBm
3. 11dBm + 10log(20.66) = 24.15 dBm > 24dBm
4. 11dBm + 10log(20.61) = 24.14 dBm > 24dBm
5. 11dBm + 10log(20.70) = 24.16 dBm > 24dBm
6. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm
Chain 2
1. 11dBm + 10log(20.59) = 24.14 dBm > 24dBm
2. 11dBm + 10log(20.68) = 24.16 dBm > 24dBm
3. 11dBm + 10log(20.63) = 24.14 dBm > 24dBm
4. 11dBm + 10log(20.68) = 24.16 dBm > 24dBm
5. 11dBm + 10log(20.70) = 24.16 dBm > 24dBm
6. 11dBm + 10log(20.71) = 24.16 dBm > 24dBm
Chain 3
1. 11dBm + 10log(20.57) = 24.13 dBm > 24dBm
2. 11dBm + 10log(20.72) = 24.16 dBm > 24dBm
3. 11dBm + 10log(20.54) = 24.13 dBm > 24dBm
4. 11dBm + 10log(20.61) = 24.14 dBm > 24dBm
5. 11dBm + 10log(20.57) = 24.13 dBm > 24dBm
6. 11dBm + 10log(20.62) = 24.14 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	12.98	12.81	12.12	12.79	**74.264**	18.71	23.70	Pass
62	5310	12.11	12.45	12.13	12.24	66.914	18.26	23.70	Pass
102	5510	11.80	12.53	11.72	11.77	62.932	17.99	23.70	Pass
110	5550	12.85	12.57	12.13	12.93	**73.312**	18.65	23.70	Pass
134	5670	12.64	12.57	12.43	12.70	72.556	18.61	23.70	Pass

*Max. gain: 6.3dBi >6dBi, so the power limit shall be reduced to “Determined Limit-(6.3-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(40.82) = 27.11 dBm > 24dBm
2. 11dBm + 10log(40.86) = 27.11 dBm > 24dBm
3. 11dBm + 10log(40.89) = 27.12 dBm > 24dBm
4. 11dBm + 10log(40.85) = 27.11 dBm > 24dBm
5. 11dBm + 10log(40.99) = 27.13 dBm > 24dBm
Chain 1
1. 11dBm + 10log(41.11) = 27.14 dBm > 24dBm
2. 11dBm + 10log(40.95) = 27.12 dBm > 24dBm
3. 11dBm + 10log(40.82) = 27.11 dBm > 24dBm
4. 11dBm + 10log(40.90) = 27.12 dBm > 24dBm
5. 11dBm + 10log(40.85) = 27.11 dBm > 24dBm
Chain 2
1. 11dBm + 10log(40.88) = 27.12 dBm > 24dBm
2. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
3. 11dBm + 10log(40.98) = 27.13 dBm > 24dBm
4. 11dBm + 10log(40.95) = 27.12 dBm > 24dBm
5. 11dBm + 10log(40.87) = 27.11 dBm > 24dBm
Chain 3
1. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.53) = 27.08 dBm > 24dBm
3. 11dBm + 10log(40.44) = 27.07 dBm > 24dBm
4. 11dBm + 10log(40.50) = 27.07 dBm > 24dBm
5. 11dBm + 10log(40.59) = 27.08 dBm > 24dBm

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	Chain3				
58	5290	9.79	11.01	10.14	9.51	41.407	16.17	23.70	Pass
106	5530	8.91	9.50	9.03	8.84	32.347	15.10	23.70	Pass
122	5610	9.10	10.01	8.95	9.13	34.188	15.34	23.70	Pas

*Max. gain: 6.3dBi >6dBi, so the power limit shall be reduced to “Determined Limit-(6.3-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(85.35) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.62) = 30.33 dBm > 24dBm
3. 11dBm + 10log(85.73) = 30.33 dBm > 24dBm
Chain 1
1. 11dBm + 10log(85.30) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.71) = 30.33 dBm > 24dBm
3. 11dBm + 10log(84.87) = 30.29 dBm > 24dBm
Chain 2
1. 11dBm + 10log(85.42) = 30.32 dBm > 24dBm
2. 11dBm + 10log(85.59) = 30.32 dBm > 24dBm
3. 11dBm + 10log(83.94) = 30.24 dBm > 24dBm
Chain 3
1. 11dBm + 10log(86.41) = 30.37 dBm > 24dBm
2. 11dBm + 10log(86.30) = 30.36 dBm > 24dBm
3. 11dBm + 10log(83.19) = 30.20 dBm > 24dBm

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	3.99	4.89	4.25	4.03	10.789	10.33	17.68	Pass
60	5300	3.85	4.97	4.37	3.54	10.568	10.24	17.68	Pass
64	5320	3.69	5.00	4.29	3.52	10.447	10.19	17.68	Pass
100	5500	4.53	4.40	4.56	4.77	11.455	10.59	17.68	Pass
116	5580	4.95	4.96	4.22	4.21	11.535	10.62	17.68	Pass
140	5700	4.50	4.60	4.86	4.82	11.803	10.72	17.68	Pass

*Directional gain = 6.3+10log (4) = 12.32dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(12.32-6)”.

*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(20.78) = 24.18 dBm > 24dBm
2. 11dBm + 10log(20.68) = 24.16 dBm > 24dBm
3. 11dBm + 10log(20.85) = 24.19 dBm > 24dBm
4. 11dBm + 10log(20.64) = 24.15 dBm > 24dBm
5. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm
6. 11dBm + 10log(20.62) = 24.14 dBm > 24dBm

Chain 1

1. 11dBm + 10log(20.58) = 24.13 dBm > 24dBm
2. 11dBm + 10log(20.78) = 24.18 dBm > 24dBm
3. 11dBm + 10log(20.66) = 24.15 dBm > 24dBm
4. 11dBm + 10log(20.61) = 24.14 dBm > 24dBm
5. 11dBm + 10log(20.70) = 24.16 dBm > 24dBm
6. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm

Chain 2

1. 11dBm + 10log(20.59) = 24.14 dBm > 24dBm
2. 11dBm + 10log(20.68) = 24.16 dBm > 24dBm
3. 11dBm + 10log(20.63) = 24.14 dBm > 24dBm
4. 11dBm + 10log(20.68) = 24.16 dBm > 24dBm
5. 11dBm + 10log(20.70) = 24.16 dBm > 24dBm
6. 11dBm + 10log(20.71) = 24.16 dBm > 24dBm

Chain 3

1. 11dBm + 10log(20.57) = 24.13 dBm > 24dBm
2. 11dBm + 10log(20.72) = 24.16 dBm > 24dBm
3. 11dBm + 10log(20.54) = 24.13 dBm > 24dBm
4. 11dBm + 10log(20.61) = 24.14 dBm > 24dBm
5. 11dBm + 10log(20.57) = 24.13 dBm > 24dBm
6. 11dBm + 10log(20.62) = 24.14 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	6.96	6.79	6.10	6.77	**18.578**	12.69	17.68	Pass
62	5310	6.09	6.43	6.11	6.22	16.749	12.24	17.68	Pass
102	5510	5.78	6.51	5.70	5.75	15.740	11.97	17.68	Pass
110	5550	6.83	6.55	6.11	6.91	**18.323**	12.63	17.68	Pass
134	5670	6.62	6.55	6.41	6.68	18.155	12.59	17.68	Pass

*Directional gain = 6.3+10log (4) = 12.32dBi > 6dBi, so the power limit shall be reduced to "Determined Limit-(12.32-6)".

*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(40.82) = 27.11 dBm > 24dBm
2. 11dBm + 10log(40.86) = 27.11 dBm > 24dBm
3. 11dBm + 10log(40.89) = 27.12 dBm > 24dBm
4. 11dBm + 10log(40.85) = 27.11 dBm > 24dBm
5. 11dBm + 10log(40.99) = 27.13 dBm > 24dBm

Chain 1

1. 11dBm + 10log(41.11) = 27.14 dBm > 24dBm
2. 11dBm + 10log(40.95) = 27.12 dBm > 24dBm
3. 11dBm + 10log(40.82) = 27.11 dBm > 24dBm
4. 11dBm + 10log(40.90) = 27.12 dBm > 24dBm
5. 11dBm + 10log(40.85) = 27.11 dBm > 24dBm

Chain 2

1. 11dBm + 10log(40.88) = 27.12 dBm > 24dBm
2. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
3. 11dBm + 10log(40.98) = 27.13 dBm > 24dBm
4. 11dBm + 10log(40.95) = 27.12 dBm > 24dBm
5. 11dBm + 10log(40.87) = 27.11 dBm > 24dBm

Chain 3

1. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.53) = 27.08 dBm > 24dBm
3. 11dBm + 10log(40.44) = 27.07 dBm > 24dBm
4. 11dBm + 10log(40.50) = 27.07 dBm > 24dBm
5. 11dBm + 10log(40.59) = 27.08 dBm > 24dBm

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	Chain3				
58	5290	3.77	4.99	4.12	3.49	10.351	10.15	17.68	Pass
106	5530	2.89	3.48	3.01	2.82	8.091	9.08	17.68	Pass
122	5610	3.08	3.99	2.93	3.11	8.551	9.32	17.68	Pass

*Directional gain = 6.3+10log (4) = 12.32dBi > 6dBi, so the power limit shall be reduced to "Determined Limit-(12.32-6)".
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(85.35) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.62) = 30.33 dBm > 24dBm
3. 11dBm + 10log(85.73) = 30.33 dBm > 24dBm
Chain 1
1. 11dBm + 10log(85.30) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.71) = 30.33 dBm > 24dBm
3. 11dBm + 10log(84.87) = 30.29 dBm > 24dBm
Chain 2
1. 11dBm + 10log(85.42) = 30.32 dBm > 24dBm
2. 11dBm + 10log(85.59) = 30.32 dBm > 24dBm
3. 11dBm + 10log(83.94) = 30.24 dBm > 24dBm
Chain 3
1. 11dBm + 10log(86.41) = 30.37 dBm > 24dBm
2. 11dBm + 10log(86.30) = 30.36 dBm > 24dBm
3. 11dBm + 10log(83.19) = 30.20 dBm > 24dBm

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	19.87	19.88	19.73	19.79
60	5300	20.02	19.95	19.90	19.66
64	5320	20.10	19.90	19.95	19.74
100	5500	20.30	19.94	19.88	19.92
116	5580	20.10	19.95	19.90	20.14
140	5700	19.95	20.00	19.94	20.22

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.78	20.58	20.59	20.57
60	5300	20.68	20.78	20.68	20.72
64	5320	20.85	20.66	20.63	20.54
100	5500	20.64	20.61	20.68	20.61
116	5580	20.73	20.70	20.70	20.57
140	5700	20.62	20.73	20.71	20.62

802.11n (HT40)

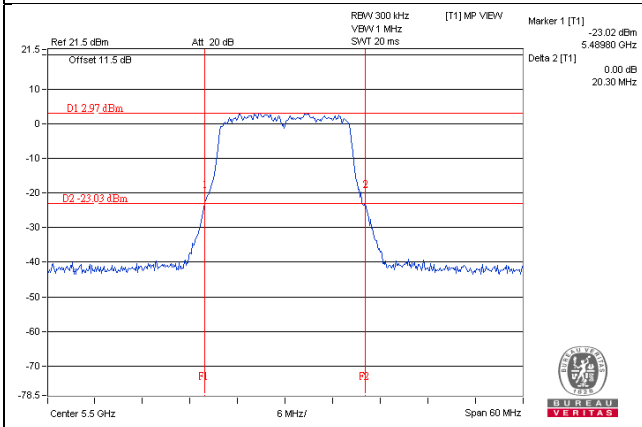
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
54	5270	40.82	41.11	40.88	40.58
62	5310	40.86	40.95	40.75	40.53
102	5510	40.89	40.82	40.98	40.44
110	5550	40.85	40.90	40.95	40.50
134	5670	40.99	40.85	40.87	40.59

802.11ac (VHT80)

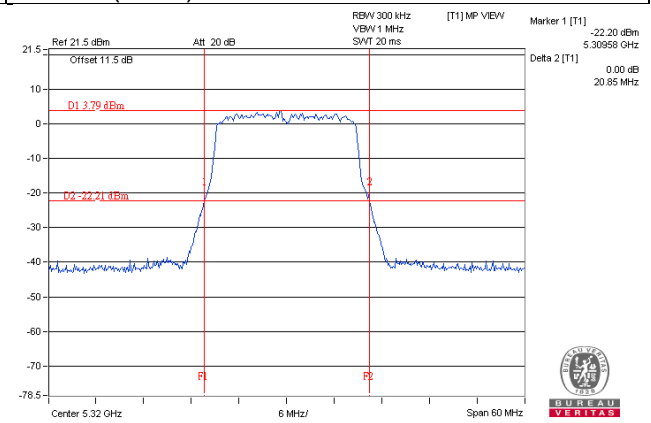
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
58	5290	85.35	85.30	85.42	86.41
106	5530	85.62	85.71	85.59	86.30
122	5610	85.73	84.87	83.94	83.19

Spectrum Plot of Worst Value

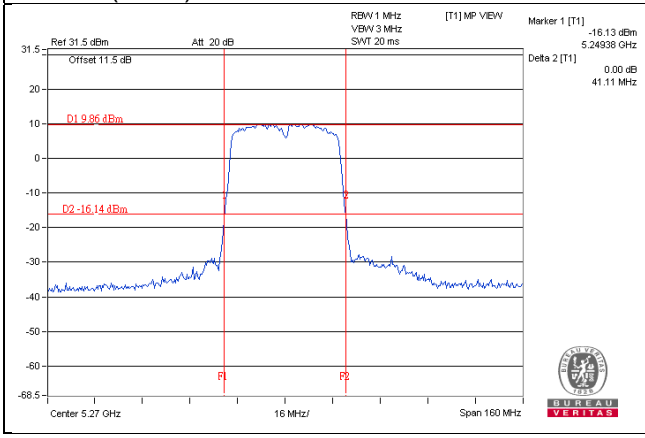
802.11a



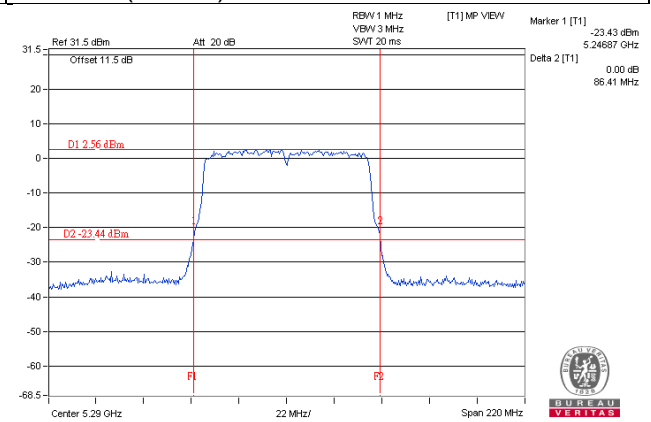
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode B

Power Output:

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	Chain3				
52	5260	3.87	3.62	3.66	3.54	9.321	9.69	15.40	Pass
60	5300	3.93	3.72	3.79	3.28	9.348	9.71	15.40	Pass
64	5320	3.87	3.86	3.75	3.32	9.389	9.73	15.40	Pass
100	5500	3.78	3.52	3.52	3.66	9.209	9.64	15.40	Pass
116	5580	3.74	3.73	3.46	3.57	9.219	9.65	15.40	Pass
140	5700	3.11	3.54	3.85	3.95	9.215	9.64	15.39	Pass

*Max. Gain: 14.60dBi>6dBi, so the power limit shall be reduced to 24-(14.60-6) = 15.40dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(20.22) = 24.06 dBm > 24dBm
2. 11dBm + 10log(20.11) = 24.03 dBm > 24dBm
3. 11dBm + 10log(20.33) = 24.08 dBm > 24dBm
4. 11dBm + 10log(20.27) = 24.07 dBm > 24dBm
5. 11dBm + 10log(20.17) = 24.05 dBm > 24dBm
6. 11dBm + 10log(20.37) = 24.09 dBm > 24dBm
Chain 1
1. 11dBm + 10log(20.22) = 24.06 dBm > 24dBm
2. 11dBm + 10log(20.10) = 24.03 dBm > 24dBm
3. 11dBm + 10log(20.22) = 24.06 dBm > 24dBm
4. 11dBm + 10log(20.13) = 24.04 dBm > 24dBm
5. 11dBm + 10log(20.19) = 24.05 dBm > 24dBm
6. 11dBm + 10log(19.92) = 23.99 dBm < 24dBm
Chain 2
1. 11dBm + 10log(20.08) = 24.03 dBm > 24dBm
2. 11dBm + 10log(20.28) = 24.07 dBm > 24dBm
3. 11dBm + 10log(20.09) = 24.03 dBm > 24dBm
4. 11dBm + 10log(20.14) = 24.04 dBm > 24dBm
5. 11dBm + 10log(19.97) = 24.00 dBm > 24dBm
6. 11dBm + 10log(19.97) = 24.00 dBm > 24dBm
Chain 3
1. 11dBm + 10log(20.09) = 24.03 dBm > 24dBm
2. 11dBm + 10log(20.11) = 24.03 dBm > 24dBm
3. 11dBm + 10log(20.06) = 24.02 dBm > 24dBm
4. 11dBm + 10log(20.14) = 24.04 dBm > 24dBm
5. 11dBm + 10log(20.08) = 24.03 dBm > 24dBm
6. 11dBm + 10log(20.17) = 24.05 dBm > 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	3.62	3.60	3.85	3.64	9.331	9.70	15.40	Pass
60	5300	3.53	3.97	3.55	3.68	9.347	9.71	15.40	Pass
64	5320	3.52	3.99	3.63	3.62	9.363	9.71	15.40	Pass
100	5500	3.93	3.76	3.81	3.72	9.608	9.83	15.40	Pass
116	5580	3.62	3.86	3.74	3.85	9.526	9.79	15.40	Pass
140	5700	3.79	3.71	3.84	3.67	9.492	9.77	15.40	Pass

*Max. Gain: 14.60dBi>6dBi, so the power limit shall be reduced to 24-(14.60-6) = 15.40dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(20.98) = 24.22 dBm > 24dBm
2. 11dBm + 10log(20.63) = 24.14 dBm > 24dBm
3. 11dBm + 10log(20.81) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.84) = 24.19 dBm > 24dBm
5. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm
6. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm
Chain 1
1. 11dBm + 10log(20.74) = 24.17 dBm > 24dBm
2. 11dBm + 10log(20.81) = 24.18 dBm > 24dBm
3. 11dBm + 10log(20.78) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.62) = 24.14 dBm > 24dBm
5. 11dBm + 10log(20.75) = 24.17 dBm > 24dBm
6. 11dBm + 10log(20.67) = 24.15 dBm > 24dBm
Chain 2
1. 11dBm + 10log(20.92) = 24.21 dBm > 24dBm
2. 11dBm + 10log(20.66) = 24.15 dBm > 24dBm
3. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm
5. 11dBm + 10log(20.55) = 24.13 dBm > 24dBm
6. 11dBm + 10log(20.75) = 24.17 dBm > 24dBm
Chain 3
1. 11dBm + 10log(20.89) = 24.20 dBm > 24dBm
2. 11dBm + 10log(21.04) = 24.23 dBm > 24dBm
3. 11dBm + 10log(20.72) = 24.16 dBm > 24dBm
4. 11dBm + 10log(20.84) = 24.19 dBm > 24dBm
5. 11dBm + 10log(20.69) = 24.16 dBm > 24dBm
6. 11dBm + 10log(20.65) = 24.15 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	6.99	6.56	6.97	6.34	18.811	12.74	15.40	Pass
62	5310	6.61	6.74	6.02	6.55	17.820	12.51	15.40	Pass
102	5510	6.80	6.56	6.02	6.51	17.791	12.50	15.40	Pass
110	5550	6.45	6.56	6.01	6.46	17.361	12.40	15.40	Pass
134	5670	6.32	6.73	6.05	6.55	17.541	12.44	15.40	Pass

*Max. Gain: 14.60dBi>6dBi, so the power limit shall be reduced to 24-(14.60-6) = 15.40dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(40.66) = 27.09 dBm > 24dBm
2. 11dBm + 10log(40.99) = 27.13 dBm > 24dBm
3. 11dBm + 10log(40.80) = 27.11 dBm > 24dBm
4. 11dBm + 10log(40.81) = 27.11 dBm > 24dBm
5. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
Chain 1
1. 11dBm + 10log(40.54) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.52) = 27.08 dBm > 24dBm
3. 11dBm + 10log(41.03) = 27.13 dBm > 24dBm
4. 11dBm + 10log(40.74) = 27.10 dBm > 24dBm
5. 11dBm + 10log(40.86) = 27.11 dBm > 24dBm
Chain 2
1. 11dBm + 10log(40.99) = 27.13 dBm > 24dBm
2. 11dBm + 10log(40.65) = 27.09 dBm > 24dBm
3. 11dBm + 10log(40.82) = 27.11 dBm > 24dBm
4. 11dBm + 10log(40.64) = 27.09 dBm > 24dBm
5. 11dBm + 10log(40.85) = 27.11 dBm > 24dBm
Chain 3
1. 11dBm + 10log(40.72) = 27.10 dBm > 24dBm
2. 11dBm + 10log(40.76) = 27.10 dBm > 24dBm
3. 11dBm + 10log(40.80) = 27.11 dBm > 24dBm
4. 11dBm + 10log(40.78) = 27.10 dBm > 24dBm
5. 11dBm + 10log(40.72) = 27.10 dBm > 24dBm

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	Chain3				
58	5290	8.59	8.46	8.41	8.26	**27.876**	14.45	15.40	Pass
106	5530	8.51	8.28	8.51	8.36	27.777	14.44	15.40	Pass
122	5610	9.10	10.01	8.95	9.13	**34.188**	15.34	15.40	Pass

*Max. Gain: 14.60dBi>6dBi, so the power limit shall be reduced to 24-(14.60-6) = 15.40dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(85.22) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.21) = 30.30 dBm > 24dBm
3. 11dBm + 10log(85.73) = 30.33 dBm > 24dBm
Chain 1
1. 11dBm + 10log(85.18) = 30.30 dBm > 24dBm
2. 11dBm + 10log(84.94) = 30.29 dBm > 24dBm
3. 11dBm + 10log(84.87) = 30.29 dBm > 24dBm
Chain 2
1. 11dBm + 10log(85.80) = 30.33 dBm > 24dBm
2. 11dBm + 10log(85.54) = 30.32 dBm > 24dBm
3. 11dBm + 10log(83.94) = 30.24 dBm > 24dBm
Chain 3
1. 11dBm + 10log(85.72) = 30.33 dBm > 24dBm
2. 11dBm + 10log(85.47) = 30.32 dBm > 24dBm
3. 11dBm + 10log(83.19) = 30.20 dBm > 24dBm

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	-2.40	-2.42	-2.17	-2.38	2.333	3.68	10.03	Pass
60	5300	-2.49	-2.05	-2.47	-2.34	2.339	3.69	10.03	Pass
64	5320	-2.50	-2.03	-2.39	-2.40	2.339	3.69	10.03	Pass
100	5500	-2.09	-2.26	-2.21	-2.30	2.404	3.81	10.03	Pass
116	5580	-2.40	-2.16	-2.28	-2.17	2.382	3.77	10.03	Pass
140	5700	-2.23	-2.31	-2.18	-2.35	2.371	3.75	10.03	Pass

* Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(19.97-6)".
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(20.98) = 24.22 dBm > 24dBm
2. 11dBm + 10log(20.63) = 24.14 dBm > 24dBm
3. 11dBm + 10log(20.81) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.84) = 24.19 dBm > 24dBm
5. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm
6. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm

Chain 1
1. 11dBm + 10log(20.74) = 24.17 dBm > 24dBm
2. 11dBm + 10log(20.81) = 24.18 dBm > 24dBm
3. 11dBm + 10log(20.78) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.62) = 24.14 dBm > 24dBm
5. 11dBm + 10log(20.75) = 24.17 dBm > 24dBm
6. 11dBm + 10log(20.67) = 24.15 dBm > 24dBm

Chain 2
1. 11dBm + 10log(20.92) = 24.21 dBm > 24dBm
2. 11dBm + 10log(20.66) = 24.15 dBm > 24dBm
3. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm
5. 11dBm + 10log(20.55) = 24.13 dBm > 24dBm
6. 11dBm + 10log(20.75) = 24.17 dBm > 24dBm

Chain 3
1. 11dBm + 10log(20.89) = 24.20 dBm > 24dBm
2. 11dBm + 10log(21.04) = 24.23 dBm > 24dBm
3. 11dBm + 10log(20.72) = 24.16 dBm > 24dBm
4. 11dBm + 10log(20.84) = 24.19 dBm > 24dBm
5. 11dBm + 10log(20.69) = 24.16 dBm > 24dBm
6. 11dBm + 10log(20.65) = 24.15 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	0.97	0.54	0.95	0.32	4.699	6.72	10.03	Pass
62	5310	0.59	0.72	0.00	0.53	4.457	6.49	10.03	Pass
102	5510	0.78	0.54	0.00	0.49	4.446	6.48	10.03	Pass
110	5550	0.43	0.54	-0.01	0.44	4.345	6.38	10.03	Pass
134	5670	0.30	0.71	0.03	0.53	4.385	6.42	10.03	Pass

* Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(19.97-6)".
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0
1. 11dBm + 10log(40.66) = 27.09 dBm > 24dBm
2. 11dBm + 10log(40.99) = 27.13 dBm > 24dBm
3. 11dBm + 10log(40.80) = 27.11 dBm > 24dBm
4. 11dBm + 10log(40.81) = 27.11 dBm > 24dBm
5. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm

Chain 1
1. 11dBm + 10log(40.54) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.52) = 27.08 dBm > 24dBm
3. 11dBm + 10log(41.03) = 27.13 dBm > 24dBm
4. 11dBm + 10log(40.74) = 27.10 dBm > 24dBm
5. 11dBm + 10log(40.86) = 27.11 dBm > 24dBm

Chain 2
1. 11dBm + 10log(40.99) = 27.13 dBm > 24dBm
2. 11dBm + 10log(40.65) = 27.09 dBm > 24dBm
3. 11dBm + 10log(40.82) = 27.11 dBm > 24dBm
4. 11dBm + 10log(40.64) = 27.09 dBm > 24dBm
5. 11dBm + 10log(40.85) = 27.11 dBm > 24dBm

Chain 3
1. 11dBm + 10log(40.72) = 27.10 dBm > 24dBm
2. 11dBm + 10log(40.76) = 27.10 dBm > 24dBm
3. 11dBm + 10log(40.80) = 27.11 dBm > 24dBm
4. 11dBm + 10log(40.78) = 27.10 dBm > 24dBm
5. 11dBm + 10log(40.72) = 27.10 dBm > 24dBm

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	Chain3				
58	5290	2.57	2.44	2.39	2.24	**6.966**	8.43	10.03	Pass
106	5530	2.49	2.26	2.49	2.34	6.950	8.42	10.03	Pass
122	5610	3.08	3.99	2.93	3.11	**8.551**	9.32	10.03	Pass

* Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 19.97dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(19.97-6)".
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(85.22) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.21) = 30.30 dBm > 24dBm
3. 11dBm + 10log(85.73) = 30.33 dBm > 24dBm

Chain 1

1. 11dBm + 10log(85.18) = 30.30 dBm > 24dBm
2. 11dBm + 10log(84.94) = 30.29 dBm > 24dBm
3. 11dBm + 10log(84.87) = 30.29 dBm > 24dBm

Chain 2

1. 11dBm + 10log(85.80) = 30.33 dBm > 24dBm
2. 11dBm + 10log(85.54) = 30.32 dBm > 24dBm
3. 11dBm + 10log(83.94) = 30.24 dBm > 24dBm

Chain 3

1. 11dBm + 10log(85.72) = 30.33 dBm > 24dBm
2. 11dBm + 10log(85.47) = 30.32 dBm > 24dBm
3. 11dBm + 10log(83.19) = 30.20 dBm > 24dBm

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.22	20.22	20.08	20.09
60	5300	20.11	20.10	20.28	20.11
64	5320	20.33	20.22	20.09	20.06
100	5500	20.27	20.13	20.14	20.14
116	5580	20.17	20.19	19.97	20.08
140	5700	20.37	19.92	19.97	20.17

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.98	20.74	20.92	20.89
60	5300	20.63	20.81	20.66	21.04
64	5320	20.81	20.78	20.82	20.72
100	5500	20.84	20.62	20.73	20.84
116	5580	20.77	20.75	20.55	20.69
140	5700	20.82	20.67	20.75	20.65

802.11n (HT40)

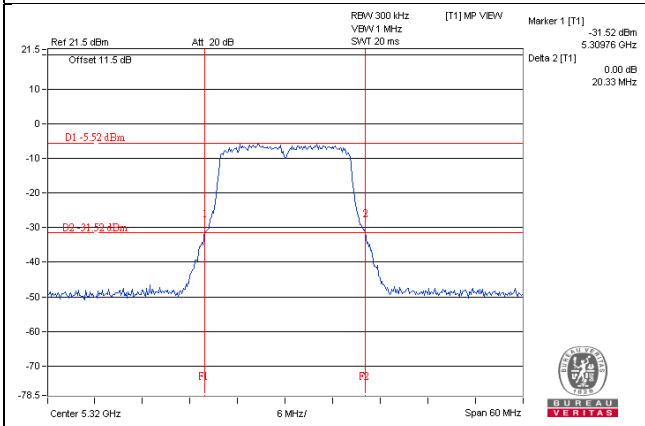
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
54	5270	40.66	40.54	40.99	40.72
62	5310	40.99	40.52	40.65	40.76
102	5510	40.80	41.03	40.82	40.80
110	5550	40.81	40.74	40.64	40.78
134	5670	40.75	40.86	40.85	40.72

802.11ac (VHT80)

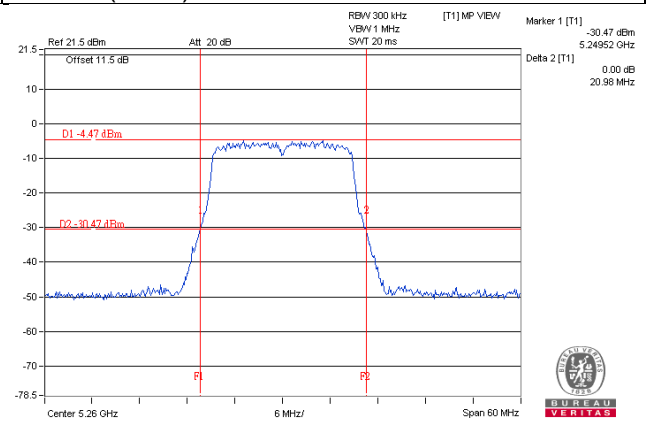
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
58	5290	85.22	85.18	85.80	85.72
106	5530	85.21	84.94	85.54	85.47
122	5610	85.73	84.87	83.94	83.19

Spectrum Plot of Worst Value

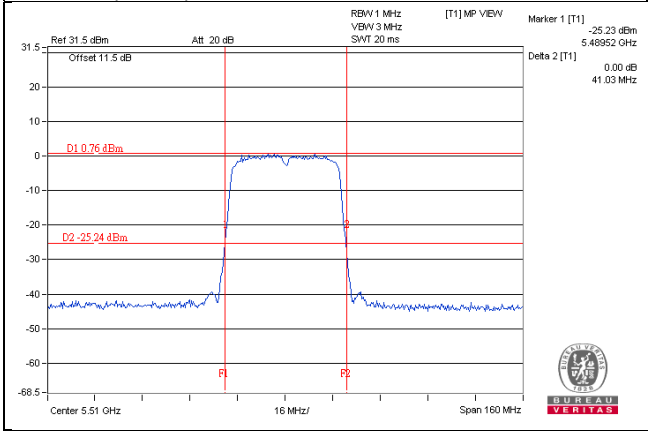
802.11a



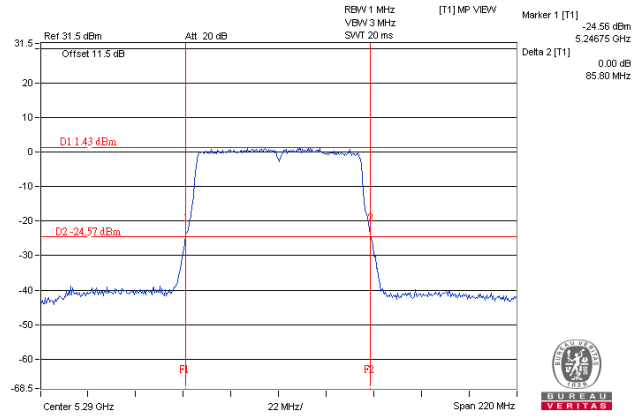
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode C

Power Output:

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	Chain3				
52	5260	8.11	8.95	8.94	8.38	29.044	14.63	19.75	Pass
60	5300	8.02	8.13	8.01	8.10	25.621	14.09	19.77	Pass
64	5320	8.34	8.62	8.38	8.42	27.938	14.46	19.77	Pass
100	5500	8.05	8.94	8.96	8.34	28.910	14.61	19.77	Pass
116	5580	8.35	8.54	8.30	8.65	28.073	14.48	19.77	Pass
140	5700	8.01	8.90	8.24	8.51	27.850	14.45	19.77	Pass

*Max. Gain: 10.23dBi, so the power limit shall be reduced to 24-(10.23-6) = 19.77dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(20.01) = 24.01 dBm > 24dBm
2. 11dBm + 10log(20.20) = 24.05 dBm > 24dBm
3. 11dBm + 10log(20.10) = 24.03 dBm > 24dBm
4. 11dBm + 10log(20.04) = 24.02 dBm > 24dBm
5. 11dBm + 10log(20.20) = 24.05 dBm > 24dBm
6. 11dBm + 10log(20.38) = 24.09 dBm > 24dBm
Chain 1
1. 11dBm + 10log(19.99) = 24.01 dBm > 24dBm
2. 11dBm + 10log(20.08) = 24.03 dBm > 24dBm
3. 11dBm + 10log(20.07) = 24.03 dBm > 24dBm
4. 11dBm + 10log(20.12) = 24.04 dBm > 24dBm
5. 11dBm + 10log(20.32) = 24.08 dBm > 24dBm
6. 11dBm + 10log(20.13) = 24.04 dBm > 24dBm
Chain 2
1. 11dBm + 10log(19.90) = 23.99 dBm < 24dBm
2. 11dBm + 10log(20.01) = 24.01 dBm > 24dBm
3. 11dBm + 10log(20.06) = 24.02 dBm > 24dBm
4. 11dBm + 10log(20.19) = 24.05 dBm > 24dBm
5. 11dBm + 10log(20.44) = 24.10 dBm > 24dBm
6. 11dBm + 10log(20.04) = 24.02 dBm > 24dBm
Chain 3
1. 11dBm + 10log(19.87) = 23.98 dBm < 24dBm
2. 11dBm + 10log(20.30) = 24.07 dBm > 24dBm
3. 11dBm + 10log(20.21) = 24.06 dBm > 24dBm
4. 11dBm + 10log(20.05) = 24.02 dBm > 24dBm
5. 11dBm + 10log(20.19) = 24.05 dBm > 24dBm
6. 11dBm + 10log(20.20) = 24.05 dBm > 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	9.23	9.03	9.05	9.26	32.841	15.16	19.77	Pass
60	5300	9.13	9.31	9.23	9.06	33.145	15.20	19.77	Pass
64	5320	9.11	9.33	9.15	9.03	32.937	15.18	19.77	Pass
100	5500	9.19	9.07	9.16	9.58	33.690	15.28	19.77	Pass
116	5580	9.99	9.16	9.08	9.41	35.039	15.45	19.77	Pass
140	5700	9.89	9.87	9.91	9.36	37.880	15.78	19.77	Pass

*Max. Gain: 10.23dBi, so the power limit shall be reduced to 24-(10.23-6) = 19.77dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm
2. 11dBm + 10log(20.80) = 24.18 dBm > 24dBm
3. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.47) = 24.11 dBm > 24dBm
5. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm
6. 11dBm + 10log(20.91) = 24.20 dBm > 24dBm
Chain 1
1. 11dBm + 10log(19.98) = 24.01 dBm > 24dBm
2. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm
3. 11dBm + 10log(20.87) = 24.20 dBm > 24dBm
4. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm
5. 11dBm + 10log(20.91) = 24.20 dBm > 24dBm
6. 11dBm + 10log(20.93) = 24.21 dBm > 24dBm
Chain 2
1. 11dBm + 10log(20.88) = 24.20 dBm > 24dBm
2. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm
3. 11dBm + 10log(20.63) = 24.14 dBm > 24dBm
4. 11dBm + 10log(21.07) = 24.24 dBm > 24dBm
5. 11dBm + 10log(20.78) = 24.18 dBm > 24dBm
6. 11dBm + 10log(20.95) = 24.21 dBm > 24dBm
Chain 3
1. 11dBm + 10log(20.69) = 24.16 dBm > 24dBm
2. 11dBm + 10log(20.93) = 24.21 dBm > 24dBm
3. 11dBm + 10log(20.85) = 24.19 dBm > 24dBm
4. 11dBm + 10log(20.94) = 24.21 dBm > 24dBm
5. 11dBm + 10log(20.99) = 24.22 dBm > 24dBm
6. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	12.20	12.19	12.03	12.26	65.940	18.19	19.77	Pass
62	5310	12.11	12.13	12.31	12.13	65.939	18.19	19.77	Pass
102	5510	12.06	12.26	12.11	12.22	65.823	18.18	19.77	Pass
110	5550	12.16	12.17	12.06	12.13	65.326	18.15	19.77	Pass
134	5670	12.19	12.22	12.12	12.22	66.195	18.21	19.77	Pass

*Max. Gain: 10.23dBi, so the power limit shall be reduced to 24-(10.23-6) = 19.77dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(40.68) = 27.09 dBm > 24dBm
2. 11dBm + 10log(40.50) = 27.07 dBm > 24dBm
3. 11dBm + 10log(41.01) = 27.13 dBm > 24dBm
4. 11dBm + 10log(40.76) = 27.10 dBm > 24dBm
5. 11dBm + 10log(40.88) = 27.12 dBm > 24dBm
Chain 1
1. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.81) = 27.11 dBm > 24dBm
3. 11dBm + 10log(40.69) = 27.09 dBm > 24dBm
4. 11dBm + 10log(40.67) = 27.09 dBm > 24dBm
5. 11dBm + 10log(40.52) = 27.08 dBm > 24dBm
Chain 2
1. 11dBm + 10log(40.59) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.44) = 27.07 dBm > 24dBm
3. 11dBm + 10log(40.39) = 27.06 dBm > 24dBm
4. 11dBm + 10log(40.28) = 27.05 dBm > 24dBm
5. 11dBm + 10log(40.37) = 27.06 dBm > 24dBm
Chain 3
1. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.52) = 27.08 dBm > 24dBm
3. 11dBm + 10log(40.57) = 27.08 dBm > 24dBm
4. 11dBm + 10log(40.59) = 27.08 dBm > 24dBm
5. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm

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	Chain3				
58	5290	12.75	13.84	12.59	12.87	**80.565**	19.06	19.77	Pass
106	5530	10.77	11.66	10.76	10.88	**50.753**	17.05	19.77	Pass
122	5610	10.71	11.51	10.33	10.51	47.969	16.81	19.77	Pass

*Max. Gain: 10.23dBi, so the power limit shall be reduced to 24-(10.23-6) = 19.77dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(85.35) = 30.31 dBm > 24dBm
2. 11dBm + 10log(84.40) = 30.26 dBm > 24dBm
3. 11dBm + 10log(84.36) = 30.26 dBm > 24dBm
Chain 1
1. 11dBm + 10log(85.26) = 30.31 dBm > 24dBm
2. 11dBm + 10log(84.81) = 30.28 dBm > 24dBm
3. 11dBm + 10log(84.01) = 30.24 dBm > 24dBm
Chain 2
1. 11dBm + 10log(83.95) = 30.24 dBm > 24dBm
2. 11dBm + 10log(84.81) = 30.28 dBm > 24dBm
3. 11dBm + 10log(84.77) = 30.28 dBm > 24dBm
Chain 3
1. 11dBm + 10log(85.27) = 30.31 dBm > 24dBm
2. 11dBm + 10log(84.75) = 30.28 dBm > 24dBm
3. 11dBm + 10log(83.76) = 30.23 dBm > 24dBm

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	3.21	3.01	3.03	3.24	8.204	9.14	13.83	Pass
60	5300	3.11	3.29	3.21	3.04	8.279	9.18	13.83	Pass
64	5320	3.09	3.31	3.13	3.01	8.241	9.16	13.83	Pass
100	5500	3.17	3.05	3.14	3.56	8.433	9.26	13.83	Pass
116	5580	3.97	3.14	3.06	3.39	8.770	9.43	13.83	Pass
140	5700	3.87	3.85	3.89	3.34	9.462	9.76	13.83	Pass

* Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.17dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(16.17-6)".
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm
2. 11dBm + 10log(20.80) = 24.18 dBm > 24dBm
3. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.47) = 24.11 dBm > 24dBm
5. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm
6. 11dBm + 10log(20.91) = 24.20 dBm > 24dBm

Chain 1
1. 11dBm + 10log(19.98) = 24.01 dBm > 24dBm
2. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm
3. 11dBm + 10log(20.87) = 24.20 dBm > 24dBm
4. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm
5. 11dBm + 10log(20.91) = 24.20 dBm > 24dBm
6. 11dBm + 10log(20.93) = 24.21 dBm > 24dBm

Chain 2
1. 11dBm + 10log(20.88) = 24.20 dBm > 24dBm
2. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm
3. 11dBm + 10log(20.63) = 24.14 dBm > 24dBm
4. 11dBm + 10log(21.07) = 24.24 dBm > 24dBm
5. 11dBm + 10log(20.78) = 24.18 dBm > 24dBm
6. 11dBm + 10log(20.95) = 24.21 dBm > 24dBm

Chain 3
1. 11dBm + 10log(20.69) = 24.16 dBm > 24dBm
2. 11dBm + 10log(20.93) = 24.21 dBm > 24dBm
3. 11dBm + 10log(20.85) = 24.19 dBm > 24dBm
4. 11dBm + 10log(20.94) = 24.21 dBm > 24dBm
5. 11dBm + 10log(20.99) = 24.22 dBm > 24dBm
6. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	6.18	6.17	6.01	6.24	16.482	12.17	13.83	Pass
62	5310	6.09	6.11	6.29	6.11	16.482	12.17	13.83	Pass
102	5510	6.04	6.24	6.09	6.20	16.444	12.16	13.83	Pass
110	5550	6.14	6.15	6.04	6.11	16.331	12.13	13.83	Pass
134	5670	6.17	6.20	6.10	6.20	16.558	12.19	13.83	Pass

* Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 16.17dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(16.17-6)".
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(40.68) = 27.09 dBm > 24dBm
2. 11dBm + 10log(40.50) = 27.07 dBm > 24dBm
3. 11dBm + 10log(41.01) = 27.13 dBm > 24dBm
4. 11dBm + 10log(40.76) = 27.10 dBm > 24dBm
5. 11dBm + 10log(40.88) = 27.12 dBm > 24dBm

Chain 1

1. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.81) = 27.11 dBm > 24dBm
3. 11dBm + 10log(40.69) = 27.09 dBm > 24dBm
4. 11dBm + 10log(40.67) = 27.09 dBm > 24dBm
5. 11dBm + 10log(40.52) = 27.08 dBm > 24dBm

Chain 2

1. 11dBm + 10log(40.59) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.44) = 27.07 dBm > 24dBm
3. 11dBm + 10log(40.39) = 27.06 dBm > 24dBm
4. 11dBm + 10log(40.28) = 27.05 dBm > 24dBm
5. 11dBm + 10log(40.37) = 27.06 dBm > 24dBm

Chain 3

1. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
2. 11dBm + 10log(40.52) = 27.08 dBm > 24dBm
3. 11dBm + 10log(40.57) = 27.08 dBm > 24dBm
4. 11dBm + 10log(40.59) = 27.08 dBm > 24dBm
5. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm

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	Chain3				
58	5290	6.73	7.82	6.57	6.85	**20.137**	13.04	13.83	Pass
106	5530	4.75	5.64	4.74	4.86	**12.677**	11.03	13.83	Pass
122	5610	4.69	5.49	4.31	4.49	11.995	10.79	13.83	Pass

* Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.17dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(16.17-6)".

* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(85.35) = 30.31 dBm > 24dBm
2. 11dBm + 10log(84.40) = 30.26 dBm > 24dBm
3. 11dBm + 10log(84.36) = 30.26 dBm > 24dBm

Chain 1

1. 11dBm + 10log(85.26) = 30.31 dBm > 24dBm
2. 11dBm + 10log(84.81) = 30.28 dBm > 24dBm
3. 11dBm + 10log(84.01) = 30.24 dBm > 24dBm

Chain 2

1. 11dBm + 10log(83.95) = 30.24 dBm > 24dBm
2. 11dBm + 10log(84.81) = 30.28 dBm > 24dBm
3. 11dBm + 10log(84.77) = 30.28 dBm > 24dBm

Chain 3

1. 11dBm + 10log(85.27) = 30.31 dBm > 24dBm
2. 11dBm + 10log(84.75) = 30.28 dBm > 24dBm
3. 11dBm + 10log(83.76) = 30.23 dBm > 24dBm

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.01	19.99	19.90	19.87
60	5300	20.20	20.08	20.01	20.30
64	5320	20.10	20.07	20.06	20.21
100	5500	20.04	20.12	20.19	20.05
116	5580	20.20	20.32	20.44	20.19
140	5700	20.38	20.13	20.04	20.20

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.77	19.98	20.88	20.69
60	5300	20.80	20.83	20.77	20.93
64	5320	20.82	20.87	20.63	20.85
100	5500	20.47	20.83	21.07	20.94
116	5580	20.73	20.91	20.78	20.99
140	5700	20.91	20.93	20.95	20.82

802.11n (HT40)

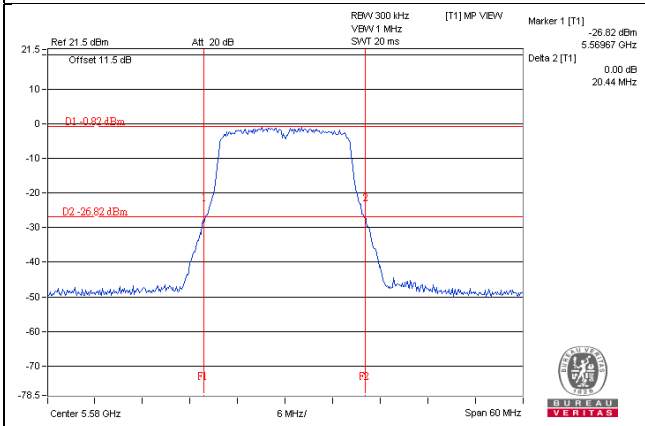
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
54	5270	40.68	40.58	40.59	40.58
62	5310	40.50	40.81	40.44	40.52
102	5510	41.01	40.69	40.39	40.57
110	5550	40.76	40.67	40.28	40.59
134	5670	40.88	40.52	40.37	40.75

802.11ac (VHT80)

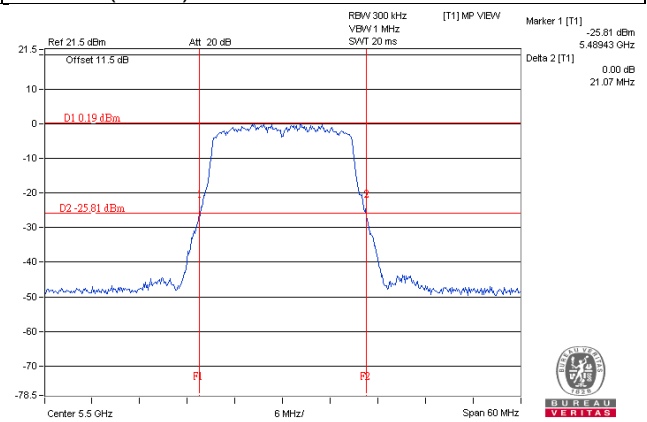
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
58	5290	85.35	85.26	83.95	85.27
106	5530	84.40	84.81	84.81	84.75
122	5610	84.36	84.01	84.77	83.76

Spectrum Plot of Worst Value

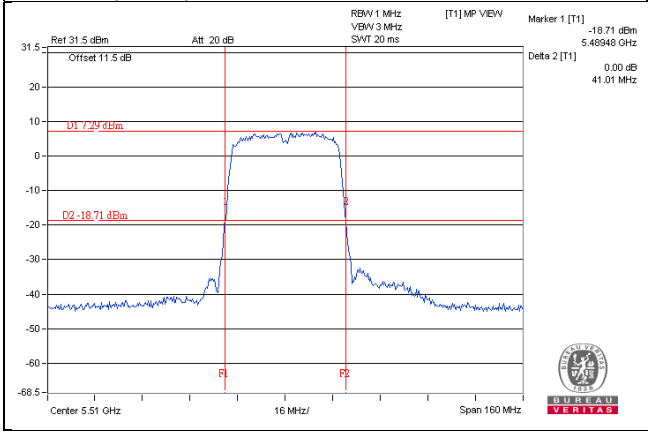
802.11a



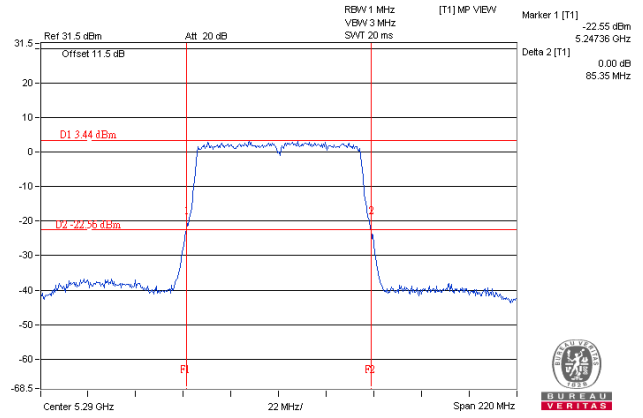
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode D

Power Output:

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	Chain3				
52	5260	3.12	3.07	3.14	3.36	8.308	9.19	15.52	Pass
60	5300	3.08	3.28	3.30	3.93	8.770	9.43	15.52	Pass
64	5320	3.01	3.33	3.32	3.97	8.796	9.44	15.52	Pass
100	5500	3.07	3.72	3.21	3.20	8.566	9.33	15.52	Pass
116	5580	3.98	3.91	3.14	3.06	9.044	9.56	15.52	Pass
140	5700	3.83	3.72	3.89	3.09	9.256	9.66	15.52	Pass

*Max. Gain: 14.48dBi, so the power limit shall be reduced to 24-(14.48-6) = 15.52dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(20.28) = 24.07 dBm > 24dBm
2. 11dBm + 10log(20.27) = 24.07 dBm > 24dBm
3. 11dBm + 10log(20.16) = 24.04 dBm > 24dBm
4. 11dBm + 10log(20.32) = 24.08 dBm > 24dBm
5. 11dBm + 10log(19.98) = 24.01 dBm > 24dBm
6. 11dBm + 10log(20.18) = 24.05 dBm > 24dBm
Chain 1
1. 11dBm + 10log(19.97) = 24.00 dBm > 24dBm
2. 11dBm + 10log(20.16) = 24.04 dBm > 24dBm
3. 11dBm + 10log(20.24) = 24.06 dBm > 24dBm
4. 11dBm + 10log(20.18) = 24.05 dBm > 24dBm
5. 11dBm + 10log(20.41) = 24.10 dBm > 24dBm
6. 11dBm + 10log(20.17) = 24.05 dBm > 24dBm
Chain 2
1. 11dBm + 10log(20.17) = 24.05 dBm > 24dBm
2. 11dBm + 10log(20.07) = 24.03 dBm > 24dBm
3. 11dBm + 10log(20.23) = 24.06 dBm > 24dBm
4. 11dBm + 10log(20.26) = 24.07 dBm > 24dBm
5. 11dBm + 10log(20.25) = 24.06 dBm > 24dBm
6. 11dBm + 10log(20.38) = 24.09 dBm > 24dBm
Chain 3
1. 11dBm + 10log(20.02) = 24.01 dBm > 24dBm
2. 11dBm + 10log(20.08) = 24.03 dBm > 24dBm
3. 11dBm + 10log(20.13) = 24.04 dBm > 24dBm
4. 11dBm + 10log(20.09) = 24.03 dBm > 24dBm
5. 11dBm + 10log(20.07) = 24.03 dBm > 24dBm
6. 11dBm + 10log(20.24) = 24.06 dBm > 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	4.64	4.73	4.32	4.93	11.699	10.68	15.52	Pass
60	5300	4.79	4.86	4.29	4.62	11.657	10.67	15.52	Pass
64	5320	4.72	4.04	4.34	4.82	11.250	10.51	15.52	Pass
100	5500	4.69	4.38	4.22	4.88	11.404	10.57	15.52	Pass
116	5580	4.55	4.55	4.23	4.73	11.323	10.54	15.52	Pass
140	5700	4.55	4.43	4.12	4.96	11.339	10.55	15.52	Pass

*Max. Gain: 14.48dBi, so the power limit shall be reduced to 24-(14.48-6) = 15.52dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(20.80) = 24.18 dBm > 24dBm
2. 11dBm + 10log(20.86) = 24.19 dBm > 24dBm
3. 11dBm + 10log(20.90) = 24.20 dBm > 24dBm
4. 11dBm + 10log(21.23) = 24.27 dBm > 24dBm
5. 11dBm + 10log(21.06) = 24.23 dBm > 24dBm
6. 11dBm + 10log(20.88) = 24.20 dBm > 24dBm
Chain 1
1. 11dBm + 10log(20.70) = 24.16 dBm > 24dBm
2. 11dBm + 10log(20.92) = 24.21 dBm > 24dBm
3. 11dBm + 10log(21.10) = 24.24 dBm > 24dBm
4. 11dBm + 10log(21.04) = 24.23 dBm > 24dBm
5. 11dBm + 10log(20.85) = 24.19 dBm > 24dBm
6. 11dBm + 10log(21.10) = 24.24 dBm > 24dBm
Chain 2
1. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm
2. 11dBm + 10log(20.97) = 24.22 dBm > 24dBm
3. 11dBm + 10log(20.95) = 24.21 dBm > 24dBm
4. 11dBm + 10log(20.88) = 24.20 dBm > 24dBm
5. 11dBm + 10log(20.99) = 24.22 dBm > 24dBm
6. 11dBm + 10log(20.90) = 24.20 dBm > 24dBm
Chain 3
1. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm
2. 11dBm + 10log(21.10) = 24.24 dBm > 24dBm
3. 11dBm + 10log(20.75) = 24.17 dBm > 24dBm
4. 11dBm + 10log(20.96) = 24.21 dBm > 24dBm
5. 11dBm + 10log(21.19) = 24.26 dBm > 24dBm
6. 11dBm + 10log(21.27) = 24.28 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	7.20	7.07	7.16	7.01	20.564	13.13	15.52	Pass
62	5310	7.17	7.25	7.15	7.63	21.503	13.32	15.52	Pass
102	5510	7.93	7.74	7.08	7.53	22.919	13.60	15.52	Pass
110	5550	7.72	7.68	7.21	7.63	22.831	13.59	15.52	Pass
134	5670	7.07	7.66	7.62	7.87	22.832	13.59	15.52	Pass

*Max. Gain: 14.48dBi, so the power limit shall be reduced to 24-(14.48-6) = 15.52dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(41.04) = 27.13 dBm > 24dBm
2. 11dBm + 10log(41.00) = 27.13 dBm > 24dBm
3. 11dBm + 10log(40.96) = 27.12 dBm > 24dBm
4. 11dBm + 10log(40.80) = 27.11 dBm > 24dBm
5. 11dBm + 10log(40.98) = 27.13 dBm > 24dBm
Chain 1
1. 11dBm + 10log(40.74) = 27.10 dBm > 24dBm
2. 11dBm + 10log(40.85) = 27.11 dBm > 24dBm
3. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
4. 11dBm + 10log(40.77) = 27.10 dBm > 24dBm
5. 11dBm + 10log(40.65) = 27.09 dBm > 24dBm
Chain 2
1. 11dBm + 10log(40.97) = 27.12 dBm > 24dBm
2. 11dBm + 10log(40.69) = 27.09 dBm > 24dBm
3. 11dBm + 10log(40.71) = 27.10 dBm > 24dBm
4. 11dBm + 10log(40.81) = 27.11 dBm > 24dBm
5. 11dBm + 10log(40.83) = 27.11 dBm > 24dBm
Chain 3
1. 11dBm + 10log(40.84) = 27.11 dBm > 24dBm
2. 11dBm + 10log(40.72) = 27.10 dBm > 24dBm
3. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
4. 11dBm + 10log(41.14) = 27.14 dBm > 24dBm
5. 11dBm + 10log(40.84) = 27.11 dBm > 24dBm

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	Chain3				
58	5290	8.89	10.09	8.99	8.83	**33.517**	15.25	15.52	Pass
106	5530	8.78	9.62	9.01	8.78	**32.226**	15.08	15.52	Pass
122	5610	8.66	9.47	8.47	8.67	30.589	14.86	15.52	Pass

*Max. Gain: 14.48dBi, so the power limit shall be reduced to 24-(14.48-6) = 15.52dBm.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(85.34) = 30.31 dBm > 24dBm
2. 11dBm + 10log(84.66) = 30.28 dBm > 24dBm
3. 11dBm + 10log(86.09) = 30.35 dBm > 24dBm
Chain 1
1. 11dBm + 10log(85.84) = 30.34 dBm > 24dBm
2. 11dBm + 10log(85.55) = 30.32 dBm > 24dBm
3. 11dBm + 10log(84.56) = 30.27 dBm > 24dBm
Chain 2
1. 11dBm + 10log(85.93) = 30.34 dBm > 24dBm
2. 11dBm + 10log(85.03) = 30.30 dBm > 24dBm
3. 11dBm + 10log(83.90) = 30.24 dBm > 24dBm
Chain 3
1. 11dBm + 10log(85.71) = 30.33 dBm > 24dBm
2. 11dBm + 10log(85.37) = 30.31 dBm > 24dBm
3. 11dBm + 10log(83.34) = 30.21 dBm > 24dBm

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	-1.38	-1.29	-1.70	-1.09	2.924	4.66	10.03	Pass
60	5300	-1.23	-1.16	-1.73	-1.40	2.917	4.65	10.03	Pass
64	5320	-1.30	-1.98	-1.68	-1.20	2.812	4.49	10.03	Pass
100	5500	-1.33	-1.64	-1.80	-1.14	2.851	4.55	10.03	Pass
116	5580	-1.47	-1.47	-1.79	-1.29	2.831	4.52	10.03	Pass
140	5700	-1.47	-1.59	-1.90	-1.06	2.838	4.53	10.03	Pass

* Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(19.97-6)".

* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(20.80) = 24.18 dBm > 24dBm
2. 11dBm + 10log(20.86) = 24.19 dBm > 24dBm
3. 11dBm + 10log(20.90) = 24.20 dBm > 24dBm
4. 11dBm + 10log(21.23) = 24.27 dBm > 24dBm
5. 11dBm + 10log(21.06) = 24.23 dBm > 24dBm
6. 11dBm + 10log(20.88) = 24.20 dBm > 24dBm

Chain 1

1. 11dBm + 10log(20.70) = 24.16 dBm > 24dBm
2. 11dBm + 10log(20.92) = 24.21 dBm > 24dBm
3. 11dBm + 10log(21.10) = 24.24 dBm > 24dBm
4. 11dBm + 10log(21.04) = 24.23 dBm > 24dBm
5. 11dBm + 10log(20.85) = 24.19 dBm > 24dBm
6. 11dBm + 10log(21.10) = 24.24 dBm > 24dBm

Chain 2

1. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm
2. 11dBm + 10log(20.97) = 24.22 dBm > 24dBm
3. 11dBm + 10log(20.95) = 24.21 dBm > 24dBm
4. 11dBm + 10log(20.88) = 24.20 dBm > 24dBm
5. 11dBm + 10log(20.99) = 24.22 dBm > 24dBm
6. 11dBm + 10log(20.90) = 24.20 dBm > 24dBm

Chain 3

1. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm
2. 11dBm + 10log(21.10) = 24.24 dBm > 24dBm
3. 11dBm + 10log(20.75) = 24.17 dBm > 24dBm
4. 11dBm + 10log(20.96) = 24.21 dBm > 24dBm
5. 11dBm + 10log(21.19) = 24.26 dBm > 24dBm
6. 11dBm + 10log(21.27) = 24.28 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	1.18	1.05	1.14	0.99	5.140	7.11	10.03	Pass
62	5310	1.15	1.23	1.13	1.61	5.370	7.30	10.03	Pass
102	5510	1.91	1.72	1.06	1.51	5.728	7.58	10.03	Pass
110	5550	1.70	1.66	1.19	1.61	5.715	7.57	10.03	Pass
134	5670	1.05	1.64	1.60	1.85	5.715	7.57	10.03	Pass

* Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(19.97-6)".

* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(41.04) = 27.13 dBm > 24dBm
2. 11dBm + 10log(41.00) = 27.13 dBm > 24dBm
3. 11dBm + 10log(40.96) = 27.12 dBm > 24dBm
4. 11dBm + 10log(40.80) = 27.11 dBm > 24dBm
5. 11dBm + 10log(40.98) = 27.13 dBm > 24dBm

Chain 1

1. 11dBm + 10log(40.74) = 27.10 dBm > 24dBm
2. 11dBm + 10log(40.85) = 27.11 dBm > 24dBm
3. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
4. 11dBm + 10log(40.77) = 27.10 dBm > 24dBm
5. 11dBm + 10log(40.65) = 27.09 dBm > 24dBm

Chain 2

1. 11dBm + 10log(40.97) = 27.12 dBm > 24dBm
2. 11dBm + 10log(40.69) = 27.09 dBm > 24dBm
3. 11dBm + 10log(40.71) = 27.10 dBm > 24dBm
4. 11dBm + 10log(40.81) = 27.11 dBm > 24dBm
5. 11dBm + 10log(40.83) = 27.11 dBm > 24dBm

Chain 3

1. 11dBm + 10log(40.84) = 27.11 dBm > 24dBm
2. 11dBm + 10log(40.72) = 27.10 dBm > 24dBm
3. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
4. 11dBm + 10log(41.14) = 27.14 dBm > 24dBm
5. 11dBm + 10log(40.84) = 27.11 dBm > 24dBm

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	Chain3				
58	5290	2.87	4.07	2.97	2.81	**8.375**	9.23	10.03	Pass
106	5530	2.76	3.60	2.99	2.76	**8.054**	9.06	10.03	Pass
122	5610	2.64	3.45	2.45	2.65	7.656	8.84	10.03	Pass

* Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(19.97-6)".
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(85.34) = 30.31 dBm > 24dBm
2. 11dBm + 10log(84.66) = 30.28 dBm > 24dBm
3. 11dBm + 10log(86.09) = 30.35 dBm > 24dBm
Chain 1
1. 11dBm + 10log(85.84) = 30.34 dBm > 24dBm
2. 11dBm + 10log(85.55) = 30.32 dBm > 24dBm
3. 11dBm + 10log(84.56) = 30.27 dBm > 24dBm
Chain 2
1. 11dBm + 10log(85.93) = 30.34 dBm > 24dBm
2. 11dBm + 10log(85.03) = 30.30 dBm > 24dBm
3. 11dBm + 10log(83.90) = 30.24 dBm > 24dBm
Chain 3
1. 11dBm + 10log(85.71) = 30.33 dBm > 24dBm
2. 11dBm + 10log(85.37) = 30.31 dBm > 24dBm
3. 11dBm + 10log(83.34) = 30.21 dBm > 24dBm

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.28	19.97	20.17	20.02
60	5300	20.27	20.16	20.07	20.08
64	5320	20.16	20.24	20.23	20.13
100	5500	20.32	20.18	20.26	20.09
116	5580	19.98	20.41	20.25	20.07
140	5700	20.18	20.17	20.38	20.24

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.80	20.70	20.82	20.77
60	5300	20.86	20.92	20.97	21.10
64	5320	20.90	21.10	20.95	20.75
100	5500	21.23	21.04	20.88	20.96
116	5580	21.06	20.85	20.99	21.19
140	5700	20.88	21.10	20.90	21.27

802.11n (HT40)

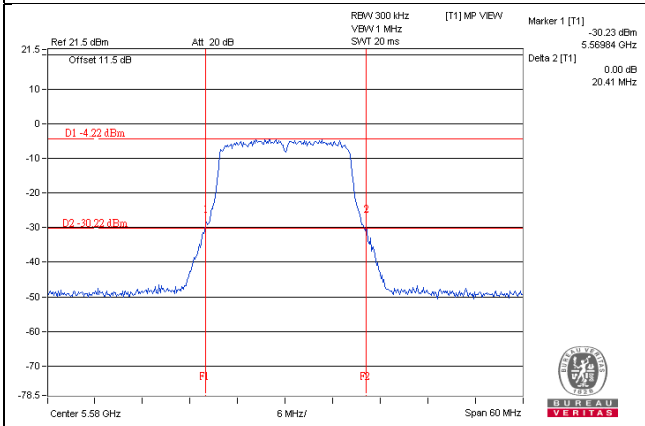
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
54	5270	41.04	40.74	40.97	40.84
62	5310	41.00	40.85	40.69	40.72
102	5510	40.96	40.75	40.71	40.75
110	5550	40.80	40.77	40.81	41.14
134	5670	40.98	40.65	40.83	40.84

802.11ac (VHT80)

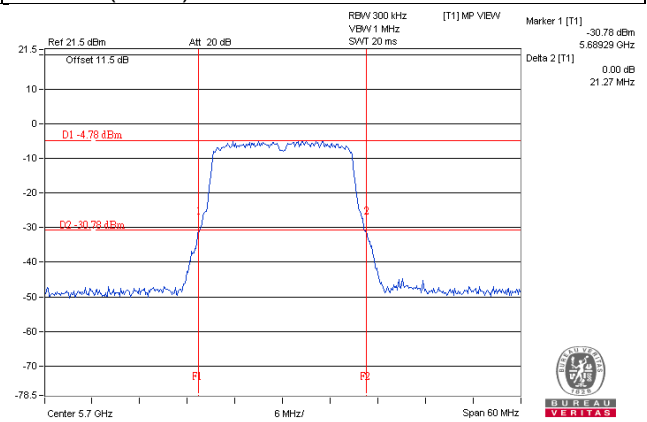
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
58	5290	85.34	85.84	85.93	85.71
106	5530	84.66	85.55	85.03	85.37
122	5610	86.09	84.56	83.90	83.34

Spectrum Plot of Worst Value

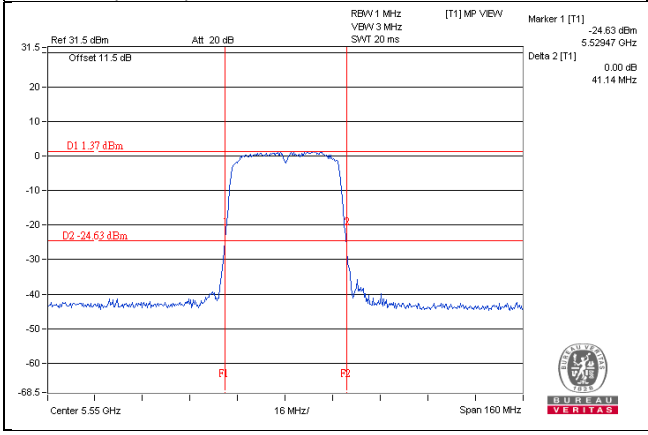
802.11a



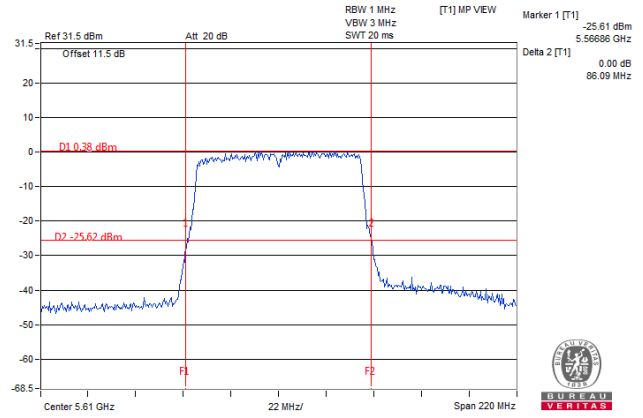
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode E

Power Output:

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	Chain3				
52	5260	7.85	7.52	7.02	7.06	21.861	13.40	19.51	Pass
60	5300	7.63	7.82	7.13	7.89	23.163	13.65	19.56	Pass
64	5320	7.58	7.88	7.13	7.86	23.139	13.64	19.49	Pass
100	5500	8.75	8.79	8.85	8.93	30.557	14.85	19.56	Pass
116	5580	8.59	8.97	8.76	8.94	30.467	14.84	19.52	Pass
140	5700	8.83	8.56	8.34	8.35	28.478	14.55	19.56	Pass

*Max. gain: 10.4dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(10.4-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(20.12) = 24.04 dBm > 24dBm
2. 11dBm + 10log(19.85) = 23.98 dBm < 24dBm
3. 11dBm + 10log(20.30) = 24.07 dBm > 24dBm
4. 11dBm + 10log(19.90) = 23.99 dBm < 24dBm
5. 11dBm + 10log(20.08) = 24.03 dBm > 24dBm
6. 11dBm + 10log(20.24) = 24.06 dBm > 24dBm
Chain 1
1. 11dBm + 10log(20.07) = 24.03 dBm > 24dBm
2. 11dBm + 10log(19.79) = 23.96 dBm < 24dBm
3. 11dBm + 10log(19.96) = 24.00 dBm = 24dBm
4. 11dBm + 10log(19.88) = 23.98 dBm < 24dBm
5. 11dBm + 10log(19.98) = 24.01 dBm > 24dBm
6. 11dBm + 10log(19.77) = 23.96 dBm < 24dBm
Chain 2
1. 11dBm + 10log(19.69) = 23.94 dBm < 24dBm
2. 11dBm + 10log(20.00) = 24.01 dBm > 24dBm
3. 11dBm + 10log(19.94) = 24.00 dBm = 24dBm
4. 11dBm + 10log(19.96) = 24.00 dBm = 24dBm
5. 11dBm + 10log(19.61) = 23.92 dBm < 24dBm
6. 11dBm + 10log(19.92) = 23.99 dBm < 24dBm
Chain 3
1. 11dBm + 10log(19.57) = 23.91 dBm < 24dBm
2. 11dBm + 10log(19.80) = 23.97 dBm < 24dBm
3. 11dBm + 10log(19.46) = 23.89 dBm < 24dBm
4. 11dBm + 10log(19.81) = 23.96 dBm < 24dBm
5. 11dBm + 10log(20.00) = 24.01 dBm > 24dBm
6. 11dBm + 10log(19.79) = 23.96 dBm < 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	8.98	8.69	8.07	8.24	28.383	14.53	19.60	Pass
60	5300	8.78	8.92	8.32	8.01	28.465	14.54	19.60	Pass
64	5320	8.75	8.12	8.14	8.30	27.262	14.36	19.60	Pass
100	5500	9.02	9.10	9.17	9.12	32.534	15.12	19.60	Pass
116	5580	9.85	9.14	9.14	9.20	34.387	15.36	19.60	Pass
140	5700	9.01	9.84	9.27	9.39	34.743	15.41	19.60	Pass

*Max. gain: 10.4dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(10.4-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(20.99) = 24.22 dBm > 24dBm
2. 11dBm + 10log(20.90) = 24.20 dBm > 24dBm
3. 11dBm + 10log(21.25) = 24.27 dBm > 24dBm
4. 11dBm + 10log(21.12) = 24.25 dBm > 24dBm
5. 11dBm + 10log(20.96) = 24.21 dBm > 24dBm
6. 11dBm + 10log(20.99) = 24.22 dBm > 24dBm
Chain 1
1. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm
2. 11dBm + 10log(20.65) = 24.15 dBm > 24dBm
3. 11dBm + 10log(20.74) = 24.17 dBm > 24dBm
4. 11dBm + 10log(20.94) = 24.21 dBm > 24dBm
5. 11dBm + 10log(20.52) = 24.12 dBm > 24dBm
6. 11dBm + 10log(20.61) = 24.14 dBm > 24dBm
Chain 2
1. 11dBm + 10log(20.74) = 24.17 dBm > 24dBm
2. 11dBm + 10log(20.69) = 24.16 dBm > 24dBm
3. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm
4. 11dBm + 10log(20.89) = 24.20 dBm > 24dBm
5. 11dBm + 10log(20.96) = 24.21 dBm > 24dBm
6. 11dBm + 10log(20.95) = 24.21 dBm > 24dBm
Chain 3
1. 11dBm + 10log(20.58) = 24.13 dBm > 24dBm
2. 11dBm + 10log(20.64) = 24.15 dBm > 24dBm
3. 11dBm + 10log(20.79) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.96) = 24.21 dBm > 24dBm
5. 11dBm + 10log(20.95) = 24.21 dBm > 24dBm
6. 11dBm + 10log(20.66) = 24.15 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	11.91	11.47	11.95	11.09	58.073	17.64	19.60	Pass
62	5310	11.76	11.77	11.94	11.83	60.900	17.85	19.60	Pass
102	5510	11.33	11.35	11.11	11.37	53.850	17.31	19.60	Pass
110	5550	11.11	11.30	11.36	11.37	53.788	17.31	19.60	Pass
134	5670	11.05	11.79	11.83	11.30	**56.567**	17.53	19.60	Pass

*Max. gain: 10.4dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(10.4-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(40.91) = 27.12 dBm > 24dBm
2. 11dBm + 10log(40.71) = 27.10 dBm > 24dBm
3. 11dBm + 10log(40.94) = 27.12 dBm > 24dBm
4. 11dBm + 10log(40.80) = 27.11 dBm > 24dBm
5. 11dBm + 10log(41.00) = 27.13 dBm > 24dBm
Chain 1
1. 11dBm + 10log(40.86) = 27.11 dBm > 24dBm
2. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
3. 11dBm + 10log(40.76) = 27.10 dBm > 24dBm
4. 11dBm + 10log(40.57) = 27.08 dBm > 24dBm
5. 11dBm + 10log(40.67) = 27.09 dBm > 24dBm
Chain 2
1. 11dBm + 10log(40.67) = 27.09 dBm > 24dBm
2. 11dBm + 10log(40.56) = 27.08 dBm > 24dBm
3. 11dBm + 10log(40.40) = 27.06 dBm > 24dBm
4. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
5. 11dBm + 10log(40.54) = 27.08 dBm > 24dBm
Chain 3
1. 11dBm + 10log(40.41) = 27.06 dBm > 24dBm
2. 11dBm + 10log(40.92) = 27.12 dBm > 24dBm
3. 11dBm + 10log(40.54) = 27.08 dBm > 24dBm
4. 11dBm + 10log(40.50) = 27.07 dBm > 24dBm
5. 11dBm + 10log(40.50) = 27.07 dBm > 24dBm

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	Chain3				
58	5290	12.52	13.52	12.69	12.75	**77.770**	18.91	19.60	Pass
106	5530	9.42	10.57	9.74	9.57	38.628	15.87	19.60	Pass
122	5610	9.55	10.47	9.22	9.59	37.614	15.75	19.60	Pass

*Max. gain: 10.4dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(10.4-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(85.33) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.65) = 30.33 dBm > 24dBm
3. 11dBm + 10log(84.50) = 30.27 dBm > 24dBm
Chain 1
1. 11dBm + 10log(85.53) = 30.32 dBm > 24dBm
2. 11dBm + 10log(85.69) = 30.33 dBm > 24dBm
3. 11dBm + 10log(84.13) = 30.25 dBm > 24dBm
Chain 2
1. 11dBm + 10log(85.34) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.53) = 30.32 dBm > 24dBm
3. 11dBm + 10log(85.30) = 30.31 dBm > 24dBm
Chain 3
1. 11dBm + 10log(84.94) = 30.29 dBm > 24dBm
2. 11dBm + 10log(85.10) = 30.30 dBm > 24dBm
3. 11dBm + 10log(84.56) = 30.27 dBm > 24dBm

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	2.96	2.67	2.05	2.22	7.096	8.51	13.92	Pass
60	5300	2.76	2.90	2.30	1.99	7.112	8.52	13.92	Pass
64	5320	2.73	2.10	2.12	2.28	6.823	8.34	13.92	Pass
100	5500	3.00	3.08	3.15	3.10	8.128	9.10	13.92	Pass
116	5580	3.83	3.12	3.12	3.18	8.590	9.34	13.92	Pass
140	5700	2.99	3.82	3.25	3.37	8.690	9.39	13.92	Pass

* Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 16.08dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(16.08-6)".

* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(20.99) = 24.22 dBm > 24dBm
2. 11dBm + 10log(20.90) = 24.20 dBm > 24dBm
3. 11dBm + 10log(21.25) = 24.27 dBm > 24dBm
4. 11dBm + 10log(21.12) = 24.25 dBm > 24dBm
5. 11dBm + 10log(20.96) = 24.21 dBm > 24dBm
6. 11dBm + 10log(20.99) = 24.22 dBm > 24dBm

Chain 1

1. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm
2. 11dBm + 10log(20.65) = 24.15 dBm > 24dBm
3. 11dBm + 10log(20.74) = 24.17 dBm > 24dBm
4. 11dBm + 10log(20.94) = 24.21 dBm > 24dBm
5. 11dBm + 10log(20.52) = 24.12 dBm > 24dBm
6. 11dBm + 10log(20.61) = 24.14 dBm > 24dBm

Chain 2

1. 11dBm + 10log(20.74) = 24.17 dBm > 24dBm
2. 11dBm + 10log(20.69) = 24.16 dBm > 24dBm
3. 11dBm + 10log(20.73) = 24.17 dBm > 24dBm
4. 11dBm + 10log(20.89) = 24.20 dBm > 24dBm
5. 11dBm + 10log(20.96) = 24.21 dBm > 24dBm
6. 11dBm + 10log(20.95) = 24.21 dBm > 24dBm

Chain 3

1. 11dBm + 10log(20.58) = 24.13 dBm > 24dBm
2. 11dBm + 10log(20.64) = 24.15 dBm > 24dBm
3. 11dBm + 10log(20.79) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.96) = 24.21 dBm > 24dBm
5. 11dBm + 10log(20.95) = 24.21 dBm > 24dBm
6. 11dBm + 10log(20.66) = 24.15 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	5.89	5.45	5.93	5.07	14.521	11.62	13.92	Pass
62	5310	5.74	5.75	5.92	5.81	15.241	11.83	13.92	Pass
102	5510	5.31	5.33	5.09	5.35	13.459	11.29	13.92	Pass
110	5550	5.09	5.28	5.34	5.35	13.459	11.29	13.92	Pass
134	5670	5.03	5.77	5.81	5.28	**14.158**	11.51	13.92	Pass

* Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.08dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(16.08-6)".
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(40.91) = 27.12 dBm > 24dBm
2. 11dBm + 10log(40.71) = 27.10 dBm > 24dBm
3. 11dBm + 10log(40.94) = 27.12 dBm > 24dBm
4. 11dBm + 10log(40.80) = 27.11 dBm > 24dBm
5. 11dBm + 10log(41.00) = 27.13 dBm > 24dBm

Chain 1

1. 11dBm + 10log(40.86) = 27.11 dBm > 24dBm
2. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
3. 11dBm + 10log(40.76) = 27.10 dBm > 24dBm
4. 11dBm + 10log(40.57) = 27.08 dBm > 24dBm
5. 11dBm + 10log(40.67) = 27.09 dBm > 24dBm

Chain 2

1. 11dBm + 10log(40.67) = 27.09 dBm > 24dBm
2. 11dBm + 10log(40.56) = 27.08 dBm > 24dBm
3. 11dBm + 10log(40.40) = 27.06 dBm > 24dBm
4. 11dBm + 10log(40.58) = 27.08 dBm > 24dBm
5. 11dBm + 10log(40.54) = 27.08 dBm > 24dBm

Chain 3

1. 11dBm + 10log(40.41) = 27.06 dBm > 24dBm
2. 11dBm + 10log(40.92) = 27.12 dBm > 24dBm
3. 11dBm + 10log(40.54) = 27.08 dBm > 24dBm
4. 11dBm + 10log(40.50) = 27.07 dBm > 24dBm
5. 11dBm + 10log(40.50) = 27.07 dBm > 24dBm

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	Chain3				
58	5290	6.50	7.50	6.67	6.73	**19.454**	12.89	13.92	Pass
106	5530	3.40	4.55	3.72	3.55	9.661	9.85	13.92	Pass
122	5610	3.53	4.45	3.20	3.57	9.397	9.73	13.92	Pass

* Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + ... + $10^{GN/20}$)^2/4] = 16.08dBi> 6dBi, so the power limit shall be reduced to "Determined Limit-(16.08-6)".

* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:

Chain 0

1. 11dBm + 10log(85.33) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.65) = 30.33 dBm > 24dBm
3. 11dBm + 10log(84.50) = 30.27 dBm > 24dBm

Chain 1

1. 11dBm + 10log(85.53) = 30.32 dBm > 24dBm
2. 11dBm + 10log(85.69) = 30.33 dBm > 24dBm
3. 11dBm + 10log(84.13) = 30.25 dBm > 24dBm

Chain 2

1. 11dBm + 10log(85.34) = 30.31 dBm > 24dBm
2. 11dBm + 10log(85.53) = 30.32 dBm > 24dBm
3. 11dBm + 10log(85.30) = 30.31 dBm > 24dBm

Chain 3

1. 11dBm + 10log(84.94) = 30.29 dBm > 24dBm
2. 11dBm + 10log(85.10) = 30.30 dBm > 24dBm
3. 11dBm + 10log(84.56) = 30.27 dBm > 24dBm

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.12	20.07	19.69	19.57
60	5300	19.85	19.79	20.00	19.80
64	5320	20.30	19.96	19.94	19.46
100	5500	19.90	19.88	19.96	19.81
116	5580	20.08	19.98	19.61	20.00
140	5700	20.24	19.77	19.92	19.79

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.99	20.83	20.74	20.58
60	5300	20.90	20.65	20.69	20.64
64	5320	21.25	20.74	20.73	20.79
100	5500	21.12	20.94	20.89	20.96
116	5580	20.96	20.52	20.96	20.95
140	5700	20.99	20.61	20.95	20.66

802.11n (HT40)

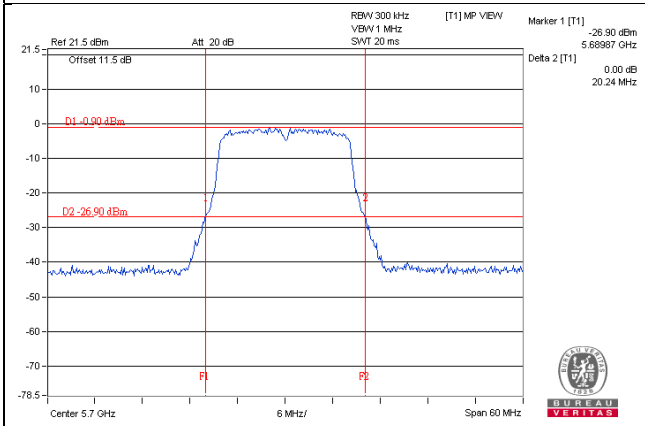
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
54	5270	40.91	40.86	40.67	40.41
62	5310	40.71	40.58	40.56	40.92
102	5510	40.94	40.76	40.40	40.54
110	5550	40.80	40.57	40.58	40.50
134	5670	41.00	40.67	40.54	40.50

802.11ac (VHT80)

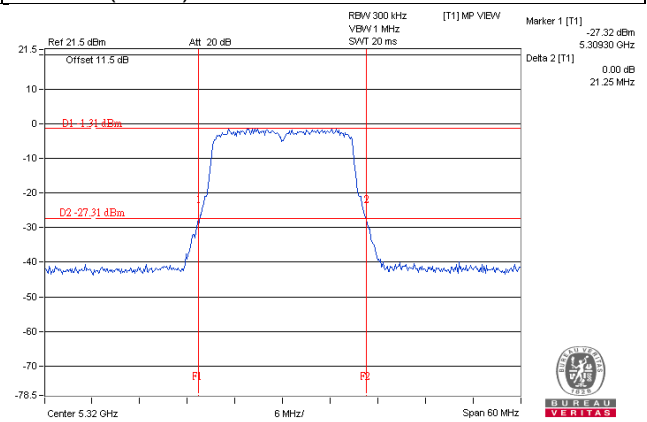
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
58	5290	85.33	85.53	85.34	84.94
106	5530	85.65	85.69	85.53	85.10
122	5610	84.50	84.13	85.30	84.56

Spectrum Plot of Worst Value

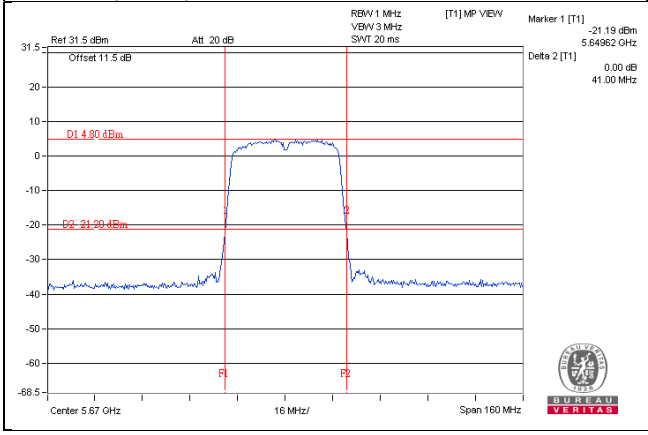
802.11a



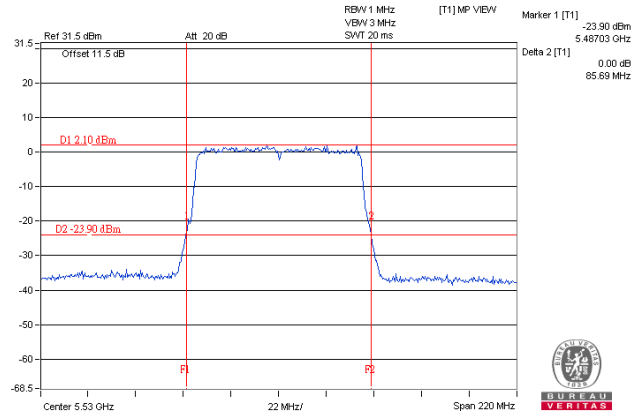
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Test Mode F

Power Output:

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	Chain3				
52	5260	6.83	6.42	6.91	6.77	18.866	12.76	17.17	Pass
60	5300	6.61	6.77	6.09	6.47	17.834	12.51	17.21	Pass
64	5320	6.61	6.72	6.04	6.55	17.817	12.51	17.21	Pass
100	5500	6.74	6.89	6.73	6.54	18.826	12.75	17.21	Pass
116	5580	6.50	6.89	6.70	6.47	18.467	12.66	17.19	Pass
140	5700	6.51	6.13	6.70	6.46	17.682	12.48	17.22	Pass

*Max. gain: 12.78dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(12.78-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(20.04) = 24.02 dBm > 24dBm
2. 11dBm + 10log(20.17) = 24.05 dBm > 24dBm
3. 11dBm + 10log(19.92) = 23.99 dBm < 24dBm
4. 11dBm + 10log(19.95) = 24.00 dBm = 24dBm
5. 11dBm + 10log(20.44) = 24.10 dBm > 24dBm
6. 11dBm + 10log(20.24) = 24.06 dBm > 24dBm
Chain 1
1. 11dBm + 10log(19.82) = 23.97 dBm < 24dBm
2. 11dBm + 10log(19.95) = 23.99 dBm < 24dBm
3. 11dBm + 10log(20.15) = 24.04 dBm > 24dBm
4. 11dBm + 10log(19.92) = 23.99 dBm < 24dBm
5. 11dBm + 10log(20.19) = 24.05 dBm > 24dBm
6. 11dBm + 10log(20.27) = 24.07 dBm > 24dBm
Chain 2
1. 11dBm + 10log(19.73) = 23.95 dBm < 24dBm
2. 11dBm + 10log(20.11) = 24.03 dBm > 24dBm
3. 11dBm + 10log(19.99) = 24.01 dBm > 24dBm
4. 11dBm + 10log(19.92) = 23.99 dBm < 24dBm
5. 11dBm + 10log(19.84) = 23.97 dBm < 24dBm
6. 11dBm + 10log(20.02) = 24.01 dBm > 24dBm
Chain 3
1. 11dBm + 10log(20.15) = 24.04 dBm > 24dBm
2. 11dBm + 10log(20.41) = 24.10 dBm > 24dBm
3. 11dBm + 10log(20.18) = 24.05 dBm > 24dBm
4. 11dBm + 10log(20.17) = 24.05 dBm > 24dBm
5. 11dBm + 10log(20.16) = 24.04 dBm > 24dBm
6. 11dBm + 10log(20.11) = 24.03 dBm > 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	7.86	7.68	7.10	7.87	23.223	13.66	17.22	Pass
60	5300	7.75	7.88	7.26	7.72	23.332	13.68	17.22	Pass
64	5320	7.67	7.98	7.20	7.66	23.211	13.66	17.22	Pass
100	5500	7.90	7.98	7.91	7.72	24.543	13.90	17.22	Pass
116	5580	7.77	7.05	7.82	7.69	22.982	13.61	17.22	Pass
140	5700	7.63	7.25	7.71	7.35	22.438	13.51	17.22	Pass

*Max. gain: 12.78dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(12.78-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(20.74) = 24.17 dBm > 24dBm
2. 11dBm + 10log(21.30) = 24.28 dBm > 24dBm
3. 11dBm + 10log(20.79) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.72) = 24.16 dBm > 24dBm
5. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm
6. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm
Chain 1
1. 11dBm + 10log(20.67) = 24.15 dBm > 24dBm
2. 11dBm + 10log(20.38) = 24.09 dBm > 24dBm
3. 11dBm + 10log(20.53) = 24.12 dBm > 24dBm
4. 11dBm + 10log(20.59) = 24.14 dBm > 24dBm
5. 11dBm + 10log(21.05) = 24.23 dBm > 24dBm
6. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm
Chain 2
1. 11dBm + 10log(20.52) = 24.12 dBm > 24dBm
2. 11dBm + 10log(20.91) = 24.20 dBm > 24dBm
3. 11dBm + 10log(21.10) = 24.24 dBm > 24dBm
4. 11dBm + 10log(20.84) = 24.19 dBm > 24dBm
5. 11dBm + 10log(21.26) = 24.28 dBm > 24dBm
6. 11dBm + 10log(20.85) = 24.19 dBm > 24dBm
Chain 3
1. 11dBm + 10log(20.72) = 24.16 dBm > 24dBm
2. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm
3. 11dBm + 10log(20.88) = 24.20 dBm > 24dBm
4. 11dBm + 10log(20.93) = 24.21 dBm > 24dBm
5. 11dBm + 10log(20.51) = 24.12 dBm > 24dBm
6. 11dBm + 10log(20.71) = 24.16 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	8.92	9.46	8.93	8.64	31.756	15.02	17.22	Pass
62	5310	8.68	9.64	8.94	8.24	31.085	14.93	17.22	Pass
102	5510	8.73	9.67	8.69	8.47	31.159	14.94	17.22	Pass
110	5550	8.44	9.58	8.81	8.47	30.694	14.87	17.22	Pass
134	5670	8.81	9.22	8.42	8.46	29.924	14.76	17.22	Pass

*Max. gain: 12.78dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(12.78-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
2. 11dBm + 10log(40.88) = 27.12 dBm > 24dBm
3. 11dBm + 10log(41.00) = 27.13 dBm > 24dBm
4. 11dBm + 10log(41.01) = 27.13 dBm > 24dBm
5. 11dBm + 10log(40.87) = 27.11 dBm > 24dBm
Chain 1
1. 11dBm + 10log(40.70) = 27.10 dBm > 24dBm
2. 11dBm + 10log(40.62) = 27.09 dBm > 24dBm
3. 11dBm + 10log(40.76) = 27.10 dBm > 24dBm
4. 11dBm + 10log(40.56) = 27.08 dBm > 24dBm
5. 11dBm + 10log(40.65) = 27.09 dBm > 24dBm
Chain 2
1. 11dBm + 10log(40.83) = 27.11 dBm > 24dBm
2. 11dBm + 10log(40.92) = 27.12 dBm > 24dBm
3. 11dBm + 10log(40.69) = 27.09 dBm > 24dBm
4. 11dBm + 10log(41.15) = 27.14 dBm > 24dBm
5. 11dBm + 10log(40.97) = 27.12 dBm > 24dBm
Chain 3
1. 11dBm + 10log(40.88) = 27.12 dBm > 24dBm
2. 11dBm + 10log(40.82) = 27.11 dBm > 24dBm
3. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
4. 11dBm + 10log(41.02) = 27.13 dBm > 24dBm
5. 11dBm + 10log(40.71) = 27.10 dBm > 24dBm

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	Chain3				
58	5290	8.95	9.96	9.31	8.91	**34.071**	15.32	17.22	Pass
106	5530	8.91	9.81	9.13	8.68	32.916	15.17	17.22	Pass
122	5610	9.10	10.01	8.95	9.13	**34.188**	15.34	17.22	Pass

*Max. gain: 12.78dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(12.78-6)”.
*Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)
Note:
Chain 0
1. 11dBm + 10log(85.75) = 30.33 dBm > 24dBm
2. 11dBm + 10log(85.50) = 30.32 dBm > 24dBm
3. 11dBm + 10log(85.73) = 30.33 dBm > 24dBm
Chain 1
1. 11dBm + 10log(85.55) = 30.32 dBm > 24dBm
2. 11dBm + 10log(85.32) = 30.31 dBm > 24dBm
3. 11dBm + 10log(84.87) = 30.29 dBm > 24dBm
Chain 2
1. 11dBm + 10log(85.83) = 30.34 dBm > 24dBm
2. 11dBm + 10log(86.35) = 30.36 dBm > 24dBm
3. 11dBm + 10log(83.94) = 30.24 dBm > 24dBm
Chain 3
1. 11dBm + 10log(85.48) = 30.32 dBm > 24dBm
2. 11dBm + 10log(85.88) = 30.34 dBm > 24dBm
3. 11dBm + 10log(83.19) = 30.20 dBm > 24dBm

Beamforming Mode

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
52	5260	1.84	1.66	1.08	1.85	5.808	7.64	11.20	Pass
60	5300	1.73	1.86	1.24	1.70	5.834	7.66	11.20	Pass
64	5320	1.65	1.96	1.18	1.64	5.808	7.64	11.20	Pass
100	5500	1.88	1.96	1.89	1.70	6.138	7.88	11.20	Pass
116	5580	1.75	1.03	1.80	1.67	5.741	7.59	11.20	Pass
140	5700	1.61	1.23	1.69	1.33	5.610	7.49	11.20	Pass

* Directional gain = 12.78dBi + 10log(4)= 18.80dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(18.80-6)”.
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(20.74) = 24.17 dBm > 24dBm
2. 11dBm + 10log(21.30) = 24.28 dBm > 24dBm
3. 11dBm + 10log(20.79) = 24.18 dBm > 24dBm
4. 11dBm + 10log(20.72) = 24.16 dBm > 24dBm
5. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm
6. 11dBm + 10log(20.83) = 24.19 dBm > 24dBm

Chain 1
1. 11dBm + 10log(20.67) = 24.15 dBm > 24dBm
2. 11dBm + 10log(20.38) = 24.09 dBm > 24dBm
3. 11dBm + 10log(20.53) = 24.12 dBm > 24dBm
4. 11dBm + 10log(20.59) = 24.14 dBm > 24dBm
5. 11dBm + 10log(21.05) = 24.23 dBm > 24dBm
6. 11dBm + 10log(20.77) = 24.17 dBm > 24dBm

Chain 2
1. 11dBm + 10log(20.52) = 24.12 dBm > 24dBm
2. 11dBm + 10log(20.91) = 24.20 dBm > 24dBm
3. 11dBm + 10log(21.10) = 24.24 dBm > 24dBm
4. 11dBm + 10log(20.84) = 24.19 dBm > 24dBm
5. 11dBm + 10log(21.26) = 24.28 dBm > 24dBm
6. 11dBm + 10log(20.85) = 24.19 dBm > 24dBm

Chain 3
1. 11dBm + 10log(20.72) = 24.16 dBm > 24dBm
2. 11dBm + 10log(20.82) = 24.18 dBm > 24dBm
3. 11dBm + 10log(20.88) = 24.20 dBm > 24dBm
4. 11dBm + 10log(20.93) = 24.21 dBm > 24dBm
5. 11dBm + 10log(20.51) = 24.12 dBm > 24dBm
6. 11dBm + 10log(20.71) = 24.16 dBm > 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain3				
54	5270	2.90	3.44	2.91	2.62	7.943	9.00	11.20	Pass
62	5310	2.66	3.62	2.92	2.22	7.780	8.91	11.20	Pass
102	5510	2.71	3.65	2.67	2.45	7.798	8.92	11.20	Pass
110	5550	2.42	3.56	2.79	2.45	7.674	8.85	11.20	Pass
134	5670	2.79	3.20	2.40	2.44	7.482	8.74	11.20	Pass

* Directional gain = 12.78dBi + 10log(4)= 18.80dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(18.80-6)”.
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
2. 11dBm + 10log(40.88) = 27.12 dBm > 24dBm
3. 11dBm + 10log(41.00) = 27.13 dBm > 24dBm
4. 11dBm + 10log(41.01) = 27.13 dBm > 24dBm
5. 11dBm + 10log(40.87) = 27.11 dBm > 24dBm
Chain 1
1. 11dBm + 10log(40.70) = 27.10 dBm > 24dBm
2. 11dBm + 10log(40.62) = 27.09 dBm > 24dBm
3. 11dBm + 10log(40.76) = 27.10 dBm > 24dBm
4. 11dBm + 10log(40.56) = 27.08 dBm > 24dBm
5. 11dBm + 10log(40.65) = 27.09 dBm > 24dBm
Chain 2
1. 11dBm + 10log(40.83) = 27.11 dBm > 24dBm
2. 11dBm + 10log(40.92) = 27.12 dBm > 24dBm
3. 11dBm + 10log(40.69) = 27.09 dBm > 24dBm
4. 11dBm + 10log(41.15) = 27.14 dBm > 24dBm
5. 11dBm + 10log(40.97) = 27.12 dBm > 24dBm
Chain 3
1. 11dBm + 10log(40.88) = 27.12 dBm > 24dBm
2. 11dBm + 10log(40.82) = 27.11 dBm > 24dBm
3. 11dBm + 10log(40.75) = 27.10 dBm > 24dBm
4. 11dBm + 10log(41.02) = 27.13 dBm > 24dBm
5. 11dBm + 10log(40.71) = 27.10 dBm > 24dBm

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	Chain3				
58	5290	2.93	3.94	3.29	2.89	**8.511**	9.30	11.20	Pass
106	5530	2.89	3.79	3.11	2.66	8.222	9.15	11.20	Pass
122	5610	3.08	3.99	2.93	3.11	**8.551**	9.32	11.20	Pass

* Directional gain = 12.78dBi + 10log(4)= 18.80dBi > 6dBi, so the power limit shall be reduced to “Determined Limit-(18.80-6)”.
* Determined Limit means compare the minimum value after 24dBm and 11 dBm+10 log(26 dB bandwidth)

Note:
Chain 0
1. 11dBm + 10log(85.75) = 30.33 dBm > 24dBm
2. 11dBm + 10log(85.50) = 30.32 dBm > 24dBm
3. 11dBm + 10log(85.73) = 30.33 dBm > 24dBm
Chain 1
1. 11dBm + 10log(85.55) = 30.32 dBm > 24dBm
2. 11dBm + 10log(85.32) = 30.31 dBm > 24dBm
3. 11dBm + 10log(84.87) = 30.29 dBm > 24dBm
Chain 2
1. 11dBm + 10log(85.83) = 30.34 dBm > 24dBm
2. 11dBm + 10log(86.35) = 30.36 dBm > 24dBm
3. 11dBm + 10log(83.94) = 30.24 dBm > 24dBm
Chain 3
1. 11dBm + 10log(85.48) = 30.32 dBm > 24dBm
2. 11dBm + 10log(85.88) = 30.34 dBm > 24dBm
3. 11dBm + 10log(83.19) = 30.20 dBm > 24dBm

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.04	19.82	19.73	20.15
60	5300	20.17	19.95	20.11	20.41
64	5320	19.92	20.15	19.99	20.18
100	5500	19.95	19.92	19.92	20.17
116	5580	20.44	20.19	19.84	20.16
140	5700	20.24	20.27	20.02	20.11

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
52	5260	20.74	20.67	20.52	20.72
60	5300	21.30	20.38	20.91	20.82
64	5320	20.79	20.53	21.10	20.88
100	5500	20.72	20.59	20.84	20.93
116	5580	20.83	21.05	21.26	20.51
140	5700	20.83	20.77	20.85	20.71

802.11n (HT40)

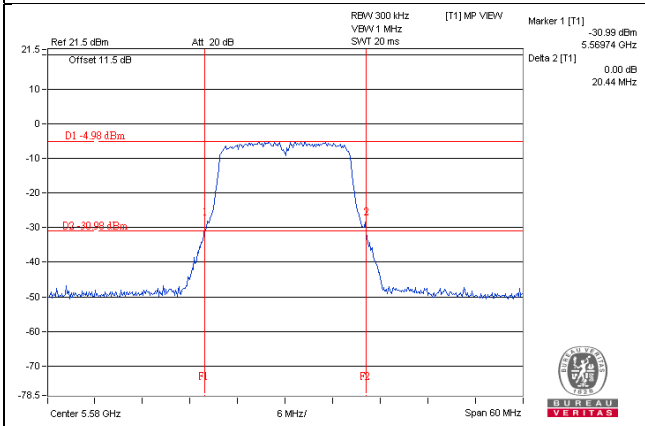
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
54	5270	40.75	40.70	40.83	40.88
62	5310	40.88	40.62	40.92	40.82
102	5510	41.00	40.76	40.69	40.75
110	5550	41.01	40.56	41.15	41.02
134	5670	40.87	40.65	40.97	40.71

802.11ac (VHT80)

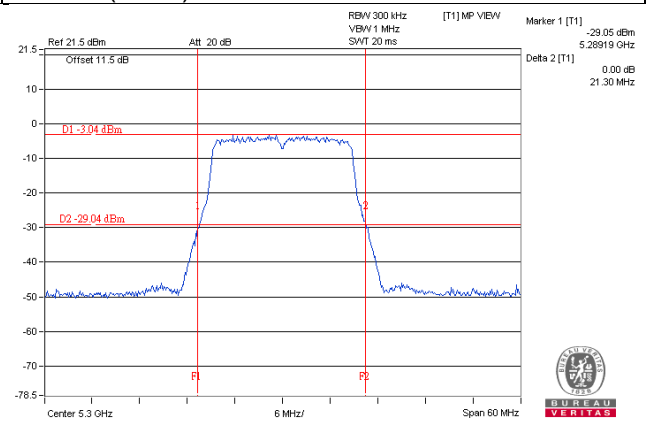
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain3
58	5290	85.75	85.55	85.83	85.48
106	5530	85.50	85.32	86.35	85.88
122	5610	85.73	84.87	83.94	83.19

Spectrum Plot of Worst Value

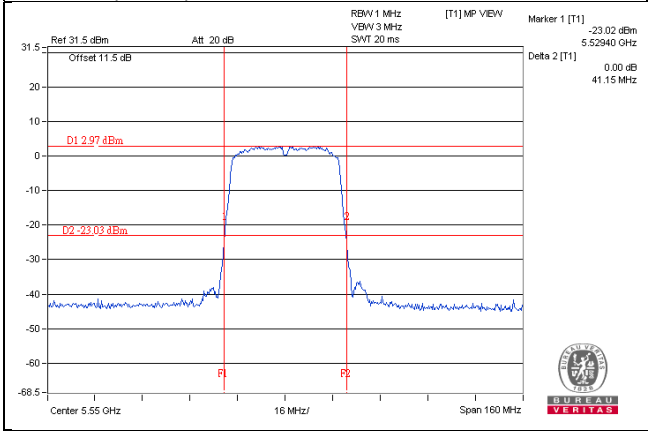
802.11a



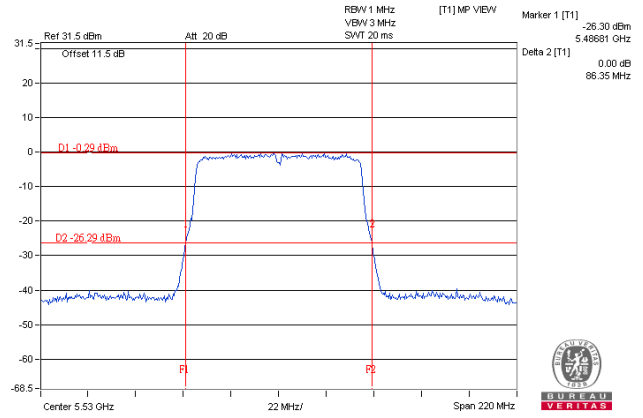
802.11n (HT20)



802.11n (HT40)

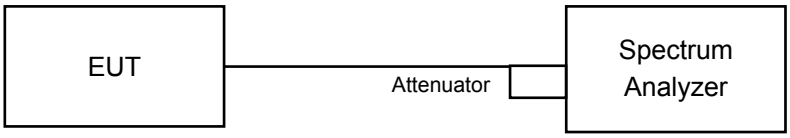


802.11ac (VHT80)



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

Test Mode A

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	16.44	16.56	16.56	16.44
60	5300	16.56	16.56	16.56	16.44
64	5320	16.44	16.56	16.56	16.44
100	5500	16.44	16.56	16.56	16.44
116	5580	16.56	16.56	16.56	16.56
140	5700	16.56	16.56	16.56	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	17.64	17.64	17.64	17.64
60	5300	17.64	17.76	17.76	17.64
64	5320	17.64	17.76	17.76	17.64
100	5500	17.64	17.76	17.64	17.76
116	5580	17.64	17.76	17.76	17.76
140	5700	17.64	17.76	17.64	17.64

802.11n (HT40)

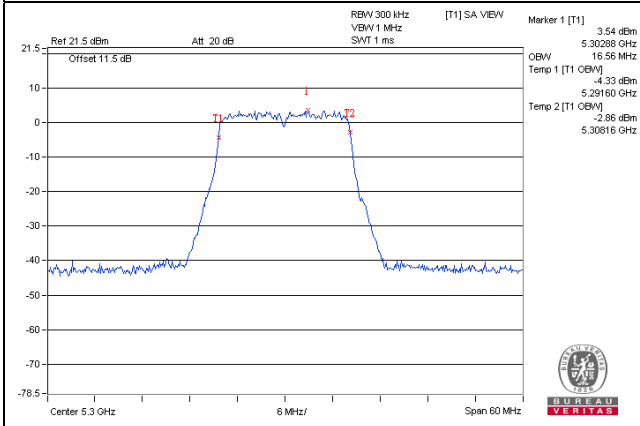
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	36.12	36.00	36.00	36.12
62	5310	36.12	36.12	36.12	36.12
102	5510	36.12	36.00	36.00	36.00
110	5550	36.12	36.12	36.12	36.12
134	5670	36.12	36.12	36.12	36.00

802.11ac (VHT80)

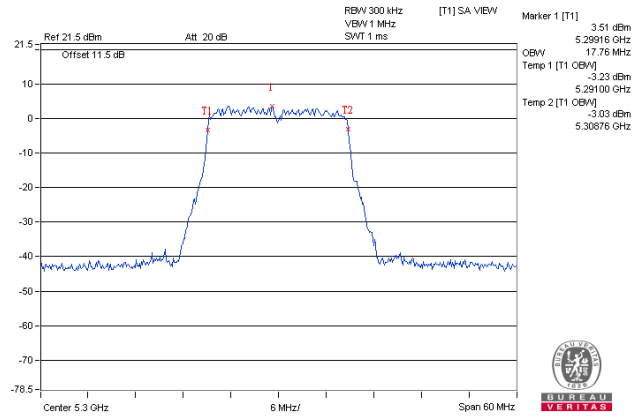
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	76.08	75.84	76.08	76.08
106	5530	75.84	76.08	76.08	75.84
122	5610	75.84	76.08	76.08	75.84

Spectrum Plot of Worst Value

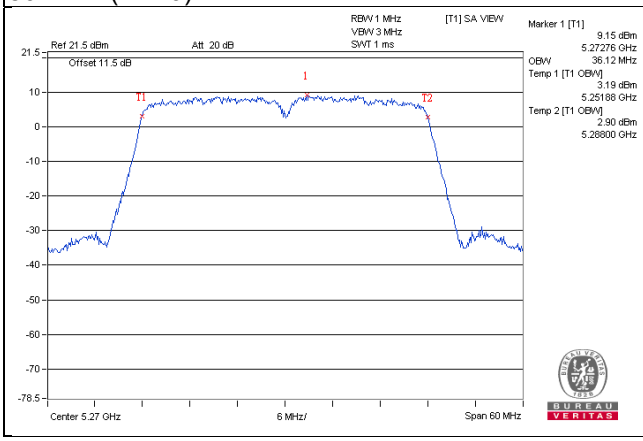
802.11a



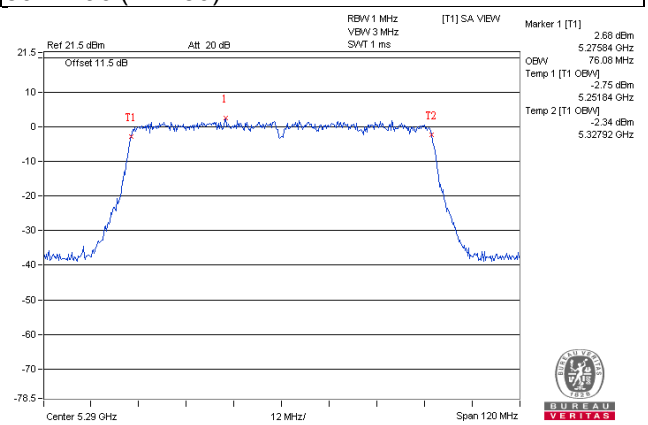
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



EUT MAXIMUM CONDUCTED POWER

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	48.560	16.86
5470~5725	35.578	15.51

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	43.111	16.35
5470~5725	47.187	16.74

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	74.264	18.71
5470~5725	73.312	18.65

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	41.407	16.17
5470~5725	34.188	15.34

Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	10.789	10.33
5470~5725	11.803	10.72

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	18.578	12.69
5470~5725	18.323	12.63

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	10.351	10.15
5470~5725	8.551	9.32

Test Mode B

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	16.44	16.44	16.44	16.44
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.44
100	5500	16.44	16.44	16.44	16.44
116	5580	16.44	16.44	16.44	16.44
140	5700	16.44	16.44	16.44	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	17.64	17.64	17.64	17.64
60	5300	17.64	17.64	17.64	17.64
64	5320	17.64	17.64	17.64	17.64
100	5500	17.64	17.64	17.64	17.64
116	5580	17.64	17.64	17.64	17.64
140	5700	17.64	17.64	17.64	17.64

802.11n (HT40)

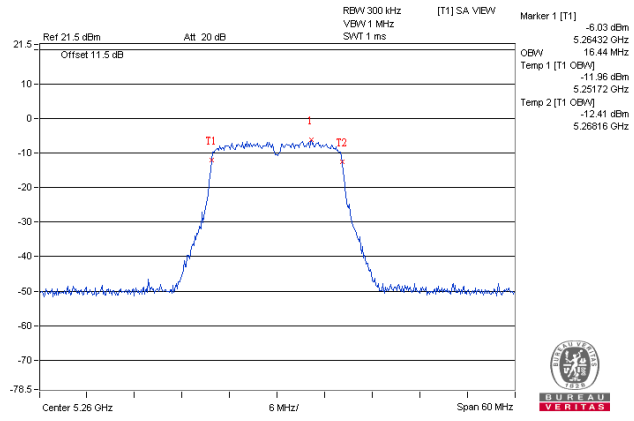
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	36.12	36.12	36.12	36.12
62	5310	36.12	36.12	36.24	36.12
102	5510	36.12	36.24	36.24	36.24
110	5550	36.24	36.12	36.24	36.24
134	5670	36.24	36.24	36.00	36.12

802.11ac (VHT80)

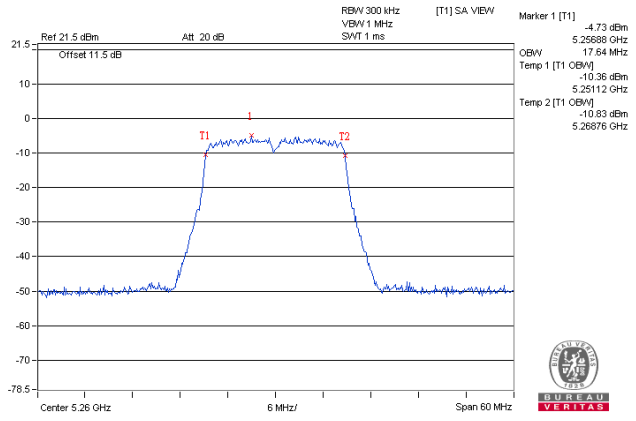
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	76.08	75.84	76.08	75.84
106	5530	76.08	75.84	76.08	76.08
122	5610	75.84	76.08	76.08	75.84

Spectrum Plot of Worst Value

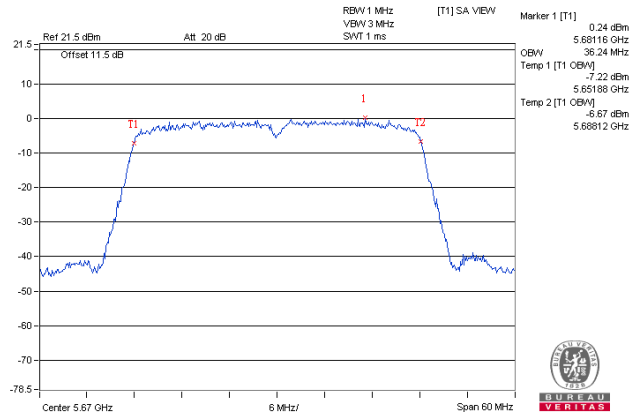
802.11a



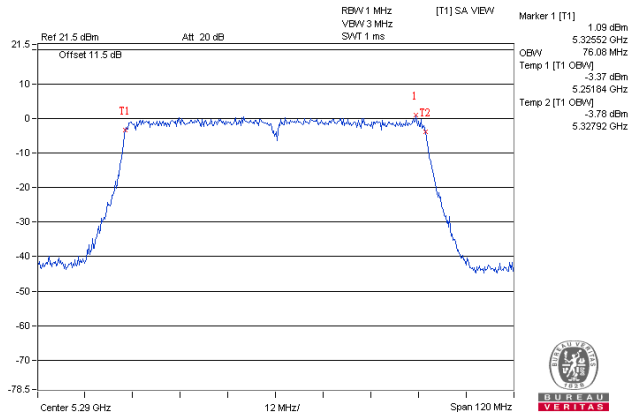
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



EUT MAXIMUM CONDUCTED POWER

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	9.389	9.73
5470~5725	9.219	9.65

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	9.363	9.71
5470~5725	9.608	9.83

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	18.811	12.74
5470~5725	17.791	12.50

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.876	14.45
5470~5725	34.188	15.34

Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	2.339	3.69
5470~5725	2.404	3.81

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	4.699	6.72
5470~5725	4.446	6.48

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	6.966	8.43
5470~5725	8.551	9.32

Test Mode C

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	16.44	16.44	16.44	16.44
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.44
100	5500	16.44	16.44	16.44	16.44
116	5580	16.44	16.44	16.44	16.44
140	5700	16.44	16.44	16.44	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	17.64	16.44	17.64	17.64
60	5300	17.64	17.64	17.64	17.64
64	5320	17.64	17.64	17.64	17.64
100	5500	17.64	17.64	17.64	17.64
116	5580	17.64	17.64	17.64	17.64
140	5700	17.64	17.64	17.76	17.64

802.11n (HT40)

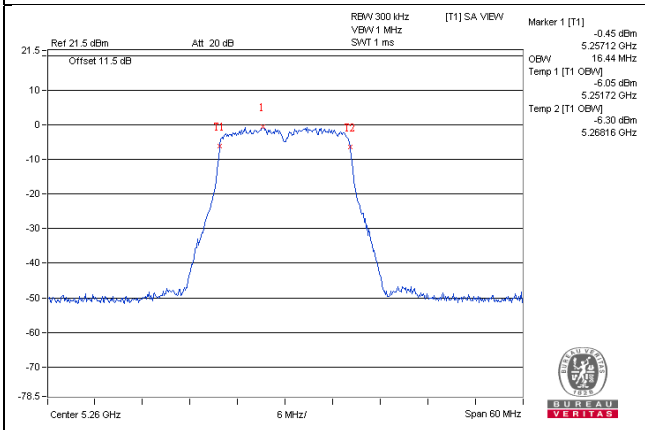
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	36.12	36.12	36.12	36.12
62	5310	36.12	36.00	36.12	36.12
102	5510	36.00	36.00	36.12	36.00
110	5550	36.12	36.12	36.12	36.12
134	5670	36.24	36.12	36.12	36.24

802.11ac (VHT80)

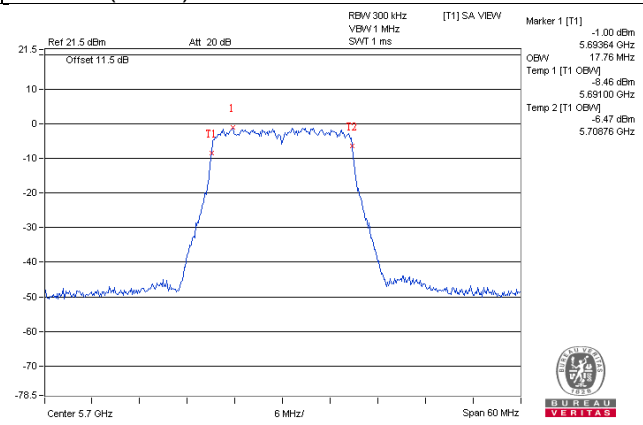
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	75.84	75.84	76.08	75.84
106	5530	75.84	75.84	75.84	75.84
122	5610	75.84	75.84	76.08	75.84

Spectrum Plot of Worst Value

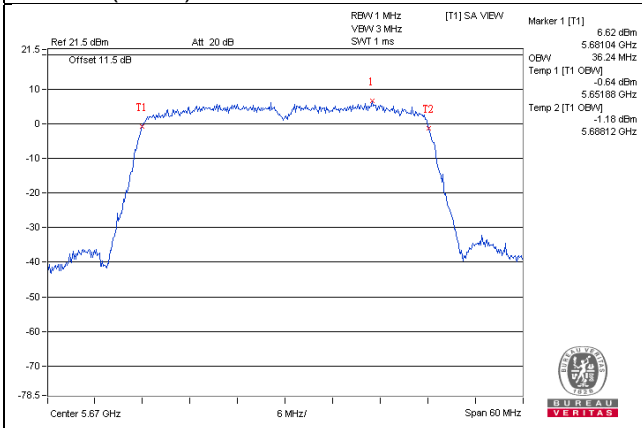
802.11a



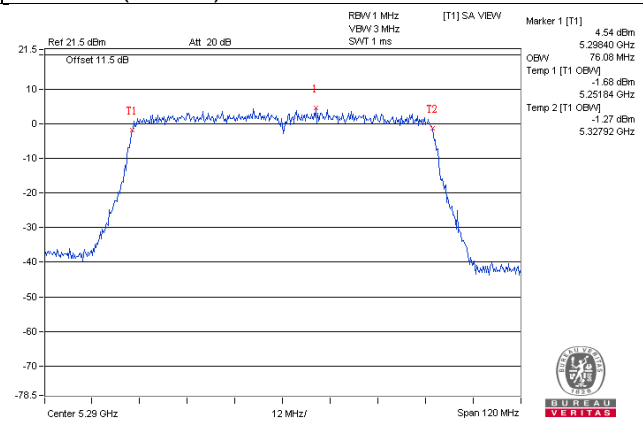
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



EUT MAXIMUM CONDUCTED POWER

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	29.044	14.63
5470~5725	28.910	14.61

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	33.145	15.20
5470~5725	37.880	15.78

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	65.940	18.19
5470~5725	66.195	18.21

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	80.565	19.06
5470~5725	50.753	17.05

Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	8.279	9.18
5470~5725	9.462	9.76

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	16.482	12.17
5470~5725	16.558	12.19

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	20.137	13.04
5470~5725	12.677	11.03

Test Mode D

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	16.44	16.44	16.44	16.44
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.44
100	5500	16.44	16.44	16.44	16.44
116	5580	16.44	16.44	16.44	16.44
140	5700	16.44	16.44	16.44	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	17.64	17.64	17.64	17.64
60	5300	17.64	17.64	17.64	17.64
64	5320	17.64	17.64	17.64	17.64
100	5500	17.64	17.64	17.64	17.64
116	5580	17.64	17.64	17.64	17.64
140	5700	17.64	17.64	17.64	17.64

802.11n (HT40)

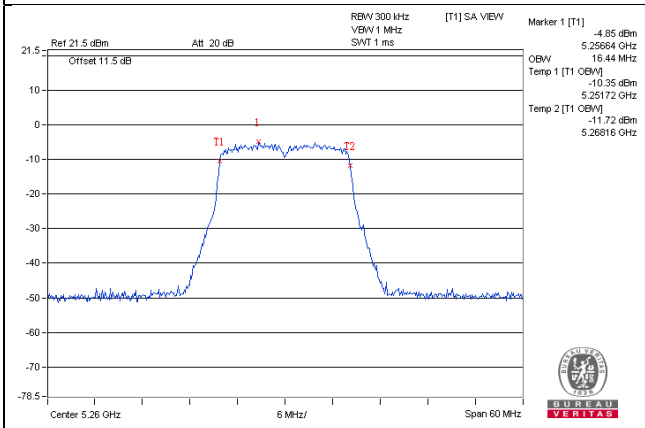
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	36.12	36.12	36.12	36.12
62	5310	36.24	36.12	36.24	36.12
102	5510	36.12	36.24	36.24	36.00
110	5550	36.12	36.24	36.24	36.12
134	5670	36.24	36.12	36.24	36.24

802.11ac (VHT80)

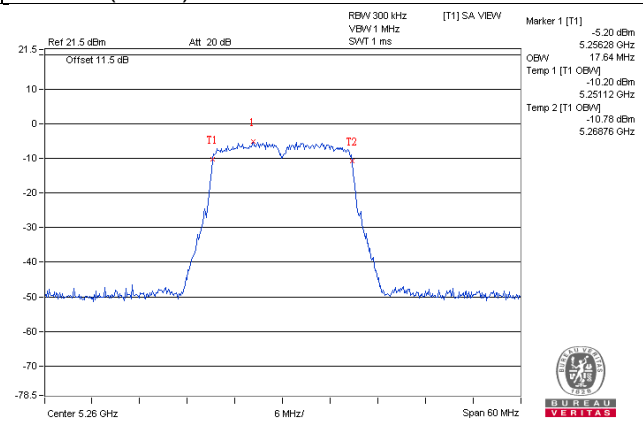
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	75.84	75.84	75.84	75.84
106	5530	75.84	76.08	75.60	75.84
122	5610	75.84	75.84	75.84	75.84

Spectrum Plot of Worst Value

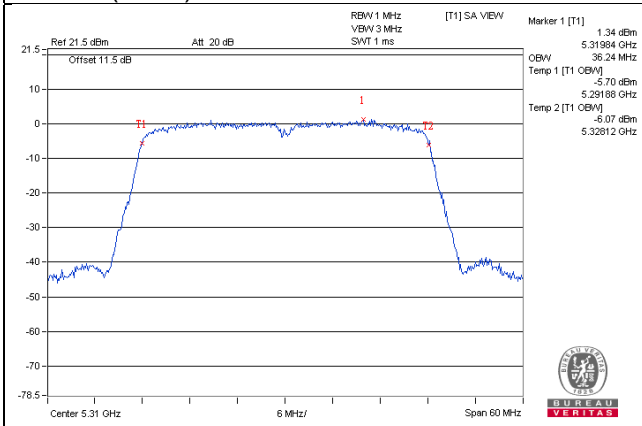
802.11a



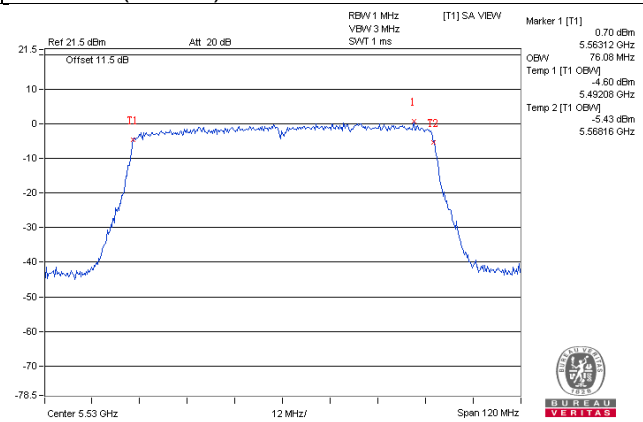
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



EUT MAXIMUM CONDUCTED POWER

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	8.796	9.44
5470~5725	9.256	9.66

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	11.699	10.68
5470~5725	11.404	10.57

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	21.503	13.32
5470~5725	22.919	13.60

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	33.517	15.25
5470~5725	32.226	15.08

Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	2.924	4.66
5470~5725	2.851	4.55

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	5.370	7.30
5470~5725	5.728	7.58

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	8.375	9.23
5470~5725	8.054	9.06

Test Mode E

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	16.44	16.44	16.44	16.44
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.44
100	5500	16.44	16.44	16.44	16.44
116	5580	16.44	16.56	16.44	16.44
140	5700	16.44	16.44	16.44	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	17.64	17.64	17.64	17.64
60	5300	17.64	17.64	17.64	17.64
64	5320	17.64	17.64	17.64	17.64
100	5500	17.64	17.64	17.64	17.64
116	5580	17.64	17.64	17.64	17.64
140	5700	17.64	17.64	17.64	17.64

802.11n (HT40)

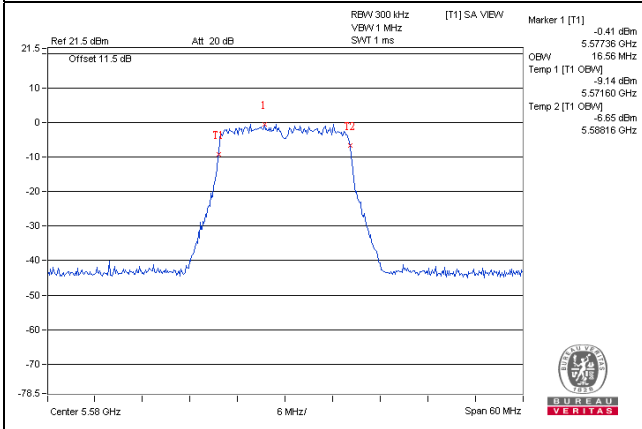
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	36.12	36.12	36.12	36.12
62	5310	36.12	36.24	36.12	36.12
102	5510	36.12	36.12	36.00	36.24
110	5550	36.12	36.12	36.12	36.24
134	5670	36.24	36.12	36.12	36.12

802.11ac (VHT80)

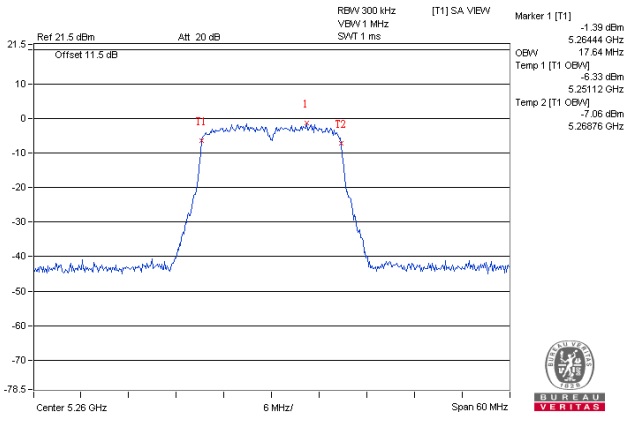
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	75.84	76.08	75.84	75.84
106	5530	75.84	75.84	75.84	75.84
122	5610	75.84	75.60	75.84	75.84

Spectrum Plot of Worst Value

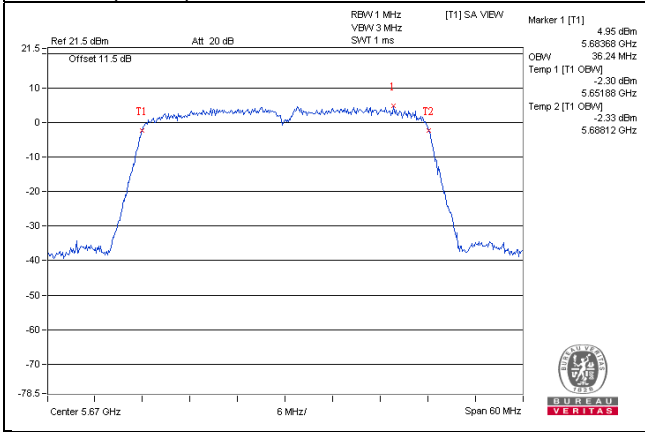
802.11a



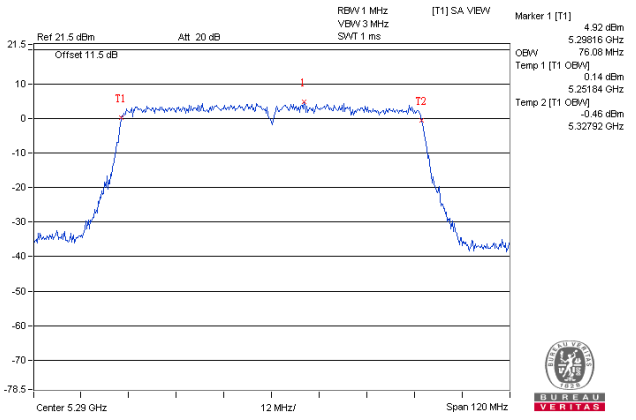
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



EUT MAXIMUM CONDUCTED POWER

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	23.163	13.65
5470~5725	30.557	14.85

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	28.465	14.54
5470~5725	34.743	15.41

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	60.900	17.85
5470~5725	56.567	17.53

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	77.770	18.91
5470~5725	38.628	15.87

Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	7.112	8.52
5470~5725	8.690	9.39

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	15.241	11.83
5470~5725	14.158	11.51

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	19.454	12.89
5470~5725	9.661	9.85

Test Mode F

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	16.44	16.44	16.44	16.44
60	5300	16.44	16.44	16.44	16.44
64	5320	16.44	16.44	16.44	16.44
100	5500	16.44	16.44	16.44	16.44
116	5580	16.44	16.56	16.44	16.44
140	5700	16.44	16.44	16.44	16.44

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
52	5260	17.64	17.64	17.64	17.64
60	5300	17.64	17.64	17.64	17.64
64	5320	17.64	17.64	17.64	17.64
100	5500	17.76	17.64	17.64	17.64
116	5580	17.64	17.64	17.64	17.64
140	5700	17.64	17.64	17.64	17.64

802.11n (HT40)

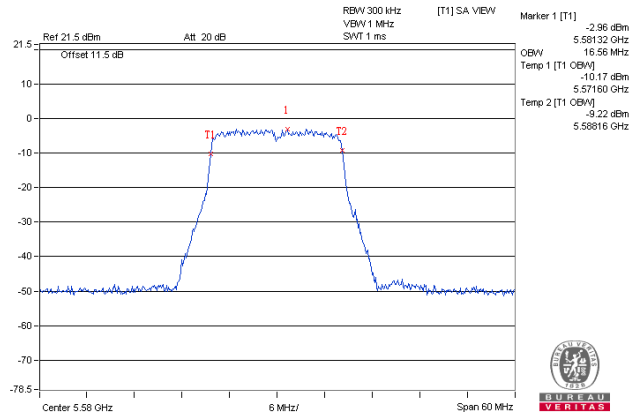
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
54	5270	36.00	36.12	36.12	36.12
62	5310	36.12	36.24	36.12	36.12
102	5510	36.12	36.24	36.12	36.12
110	5550	36.12	36.12	36.12	36.12
134	5670	36.12	36.12	36.12	36.24

802.11ac (VHT80)

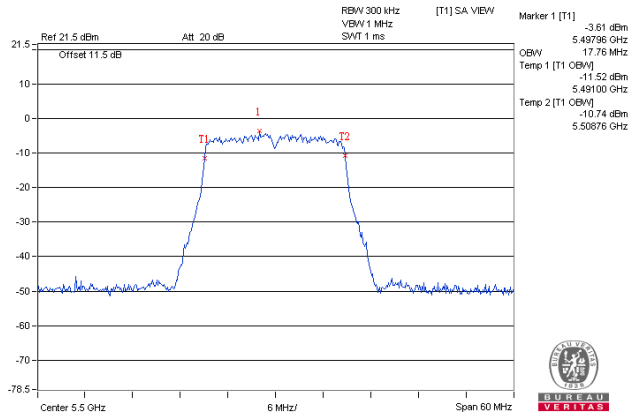
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
58	5290	76.08	75.84	75.84	76.08
106	5530	76.08	76.08	75.84	75.84
122	5610	75.84	76.08	76.08	75.84

Spectrum Plot of Worst Value

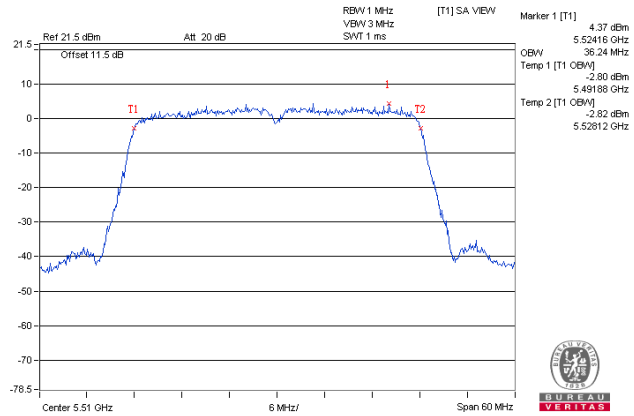
802.11a



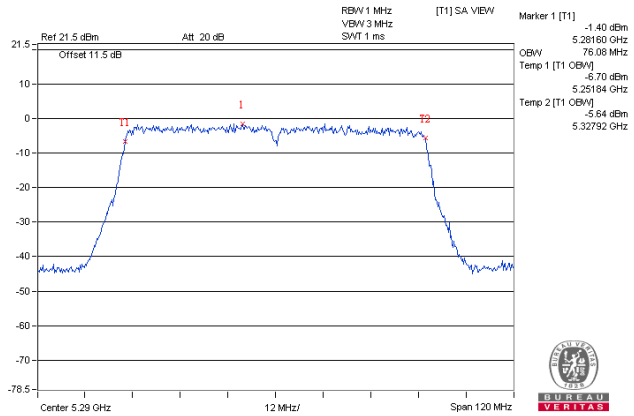
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



EUT MAXIMUM CONDUCTED POWER

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	18.866	12.76
5470~5725	18.826	12.75

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	23.332	13.68
5470~5725	24.543	13.90

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	31.756	15.02
5470~5725	31.159	14.94

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	34.071	15.32
5470~5725	34.188	15.34

Beamforming Mode

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	5.834	7.66
5470~5725	6.138	7.88

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	7.943	9.00
5470~5725	7.798	8.92

802.11ac (VHT80)

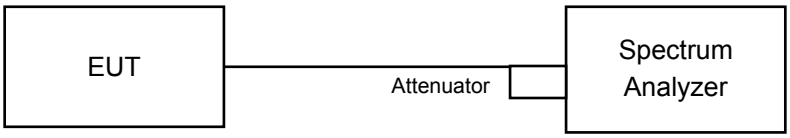
Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	8.511	9.30
5470~5725	8.551	9.32

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

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)

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

Test Mode A

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
52	5260	-1.84	-1.13	-1.62	-2.40	0.15	4.44	4.68	Pass
60	5300	-2.00	-1.21	-1.59	-1.89	0.15	4.50	4.68	Pass
64	5320	-1.31	-1.98	-1.42	-1.72	0.15	4.57	4.68	Pass
100	5500	-1.74	-0.99	-1.47	-2.05	0.15	4.62	4.68	Pass
116	5580	-1.79	-1.21	-1.58	-1.58	0.15	4.63	4.68	Pass
140	5700	-2.15	-1.86	-1.40	-1.71	0.15	4.39	4.68	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.3dBi +10log (4) = 12.32dBi > 6dBi, so the power density limit shall be reduced to 11-(12.32-6) = 4.68dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
52	5260	-1.42	-1.11	-1.63	-2.35	4.42	4.68	Pass
60	5300	-1.49	-1.00	-1.57	-1.69	4.59	4.68	Pass
64	5320	-1.29	-1.24	-1.35	-1.59	4.66	4.68	Pass
100	5500	-1.48	-1.00	-1.47	-1.78	4.60	4.68	Pass
116	5580	-1.68	-1.60	-1.64	-1.59	4.39	4.68	Pass
140	5700	-1.56	-0.81	-1.38	-1.97	4.61	4.68	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.3dBi +10log (4) = 12.32dBi > 6dBi, so the power density limit shall be reduced to 11-(12.32-6) = 4.68dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
54	5270	-1.25	-1.32	-1.77	-2.66	0.13	4.43	4.68	Pass
62	5310	-2.15	-1.26	-1.31	-2.31	0.13	4.42	4.68	Pass
102	5510	-3.50	-2.21	-2.23	-2.84	0.13	3.48	4.68	Pass
110	5550	-2.17	-1.56	-1.55	-1.95	0.13	4.35	4.68	Pass
134	5670	-1.85	-0.86	-1.81	-2.27	0.13	4.48	4.68	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.3dBi +10log (4) = 12.32dBi > 6dBi, so the power density limit shall be reduced to 11-(12.32-6) = 4.68dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

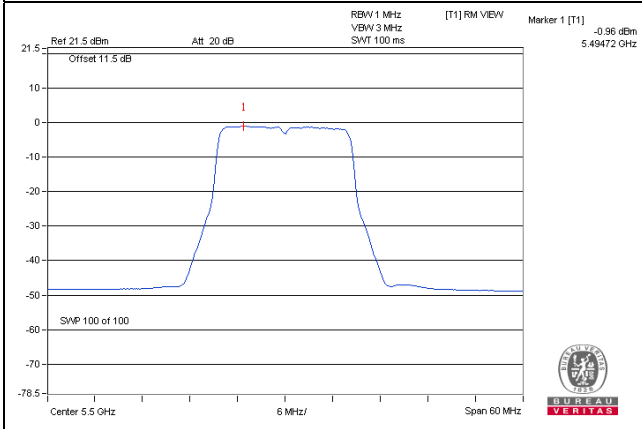
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
58	5290	-8.53	-7.74	-7.72	-8.06	0.26	-1.72	4.68	Pass
106	5530	-9.53	-8.52	-8.53	-8.97	0.26	-2.59	4.68	Pass
122	5610	-10.35	-9.29	-11.07	-9.91	0.26	-3.83	4.68	Pass

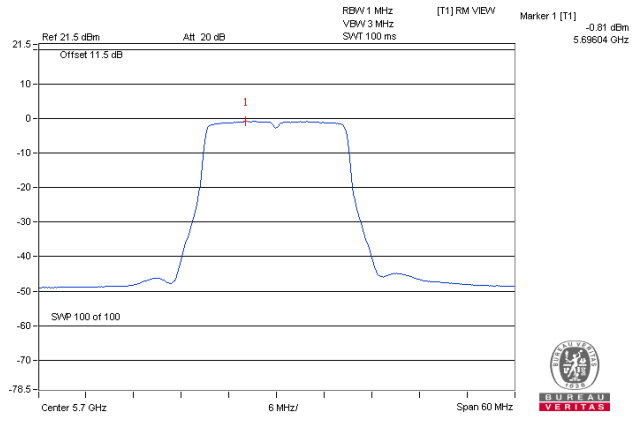
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 6.3dBi +10log (4) = 12.32dBi > 6dBi, so the power density limit shall be reduced to 11-(12.32-6) = 4.68dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

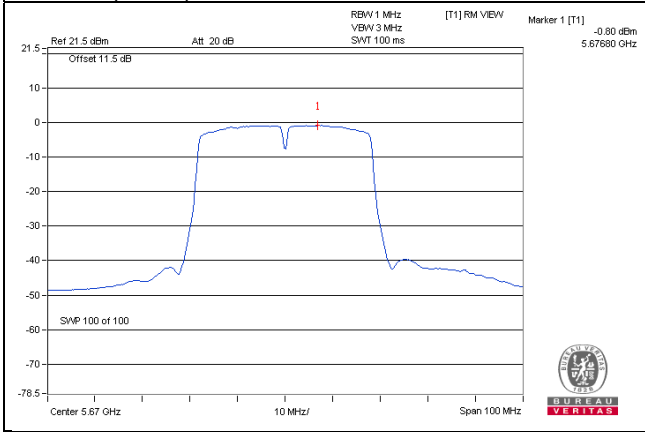
802.11a / Chain 1 / CH 100



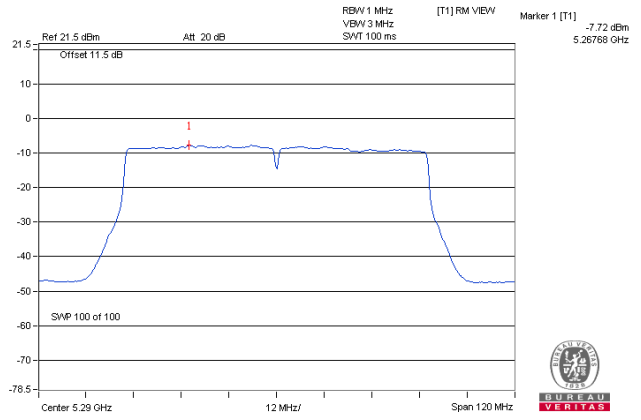
802.11n (HT20) / Chain 1 / CH 140



802.11n (HT40)/ Chain 1 / CH 134



802.11ac (VHT80) / Chain 2 / CH 58



Test Mode B

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
52	5260	-9.99	-10.06	-10.54	-9.52	0.15	-3.85	-2.97	Pass
60	5300	-10.51	-10.00	-10.31	-9.33	0.15	-3.85	-2.97	Pass
64	5320	-10.74	-10.14	-9.41	-10.39	0.15	-3.98	-2.97	Pass
100	5500	-10.94	-9.65	-9.63	-9.92	0.15	-3.84	-2.97	Pass
116	5580	-10.10	-10.25	-10.00	-9.76	0.15	-3.86	-2.97	Pass
140	5700	-10.22	-10.43	-9.72	-9.91	0.15	-3.89	-2.97	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi > 6dBi, so the power density limit shall be reduced to 11-(19.97-6) = -2.97dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
52	5260	-10.19	-9.76	-9.61	-9.61	-3.77	-2.97	Pass
60	5300	-9.98	-9.52	-9.91	-9.31	-3.65	-2.97	Pass
64	5320	-9.97	-9.66	-9.93	-9.48	-3.74	-2.97	Pass
100	5500	-9.60	-9.62	-9.67	-10.17	-3.74	-2.97	Pass
116	5580	-10.12	-9.82	-9.53	-9.75	-3.78	-2.97	Pass
140	5700	-10.33	-10.01	-9.80	-9.73	-3.94	-2.97	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi > 6dBi, so the power density limit shall be reduced to 11-(19.97-6) = -2.97dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
54	5270	-10.17	-10.30	-9.70	-9.61	0.13	-3.79	-2.97	Pass
62	5310	-10.03	-10.14	-9.36	-9.84	0.13	-3.68	-2.97	Pass
102	5510	-10.01	-10.21	-9.89	-9.40	0.13	-3.72	-2.97	Pass
110	5550	-9.71	-10.75	-9.74	-9.78	0.13	-3.83	-2.97	Pass
134	5670	-10.25	-10.23	-10.10	-10.24	0.13	-4.06	-2.97	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi > 6dBi, so the power density limit shall be reduced to 11-(19.97-6) = -2.97dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

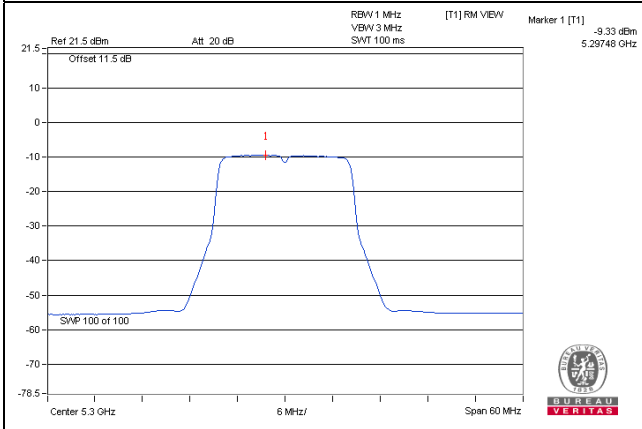
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
58	5290	-10.06	-9.95	-10.05	-10.10	0.26	-3.76	-2.97	Pass
106	5530	-10.36	-10.22	-10.44	-10.39	0.26	-4.07	-2.97	Pass
122	5610	-10.35	-9.29	-11.07	-9.91	0.26	-3.83	-2.97	Pass

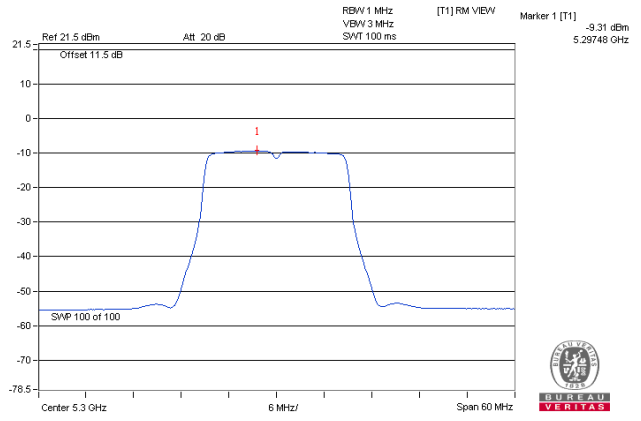
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi > 6dBi, so the power density limit shall be reduced to 11-(19.97-6) = -2.97dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

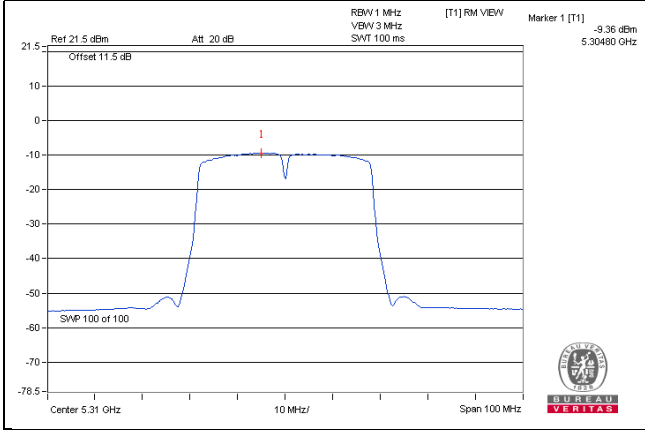
802.11a / Chain 3 / CH 60



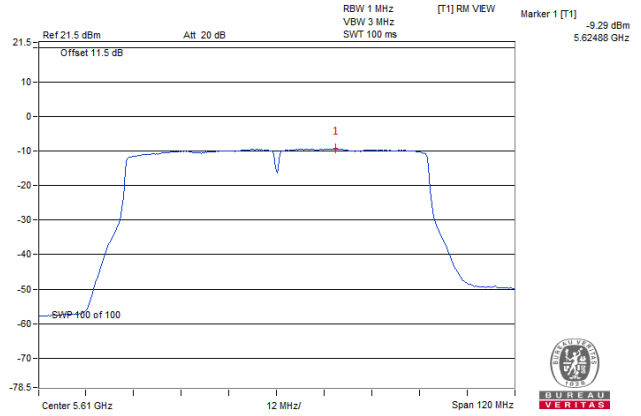
802.11n (HT20) / Chain 3 / CH 60



802.11n (HT40) / Chain 2 / CH 62



802.11ac (VHT80) / Chain 1 / CH 122



Test Mode C

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
52	5260	-5.42	-5.50	-5.82	-5.40	0.15	0.63	0.83	Pass
60	5300	-5.48	-5.50	-5.43	-5.40	0.15	0.71	0.83	Pass
64	5320	-5.17	-5.67	-6.01	-5.07	0.15	0.70	0.83	Pass
100	5500	-5.34	-5.81	-5.68	-5.27	0.15	0.65	0.83	Pass
116	5580	-5.40	-5.29	-5.83	-5.49	0.15	0.67	0.83	Pass
140	5700	-5.56	-5.04	-5.51	-5.65	0.15	0.73	0.83	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.17dBi > 6dBi, so the power density limit shall be reduced to 11-(16.17-6) = 0.83dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
52	5260	-5.25	-5.45	-5.35	-5.48	0.64	0.83	Pass
60	5300	-5.14	-6.05	-5.17	-5.33	0.61	0.83	Pass
64	5320	-5.35	-5.52	-5.84	-5.52	0.47	0.83	Pass
100	5500	-5.26	-5.50	-5.25	-5.31	0.69	0.83	Pass
116	5580	-5.17	-5.15	-5.42	-5.57	0.70	0.83	Pass
140	5700	-5.31	-6.06	-5.76	-5.29	0.43	0.83	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.17dBi > 6dBi, so the power density limit shall be reduced to 11-(16.17-6) = 0.83dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
54	5270	-5.13	-5.42	-5.80	-6.30	0.13	0.51	0.83	Pass
62	5310	-5.53	-5.93	-5.52	-5.49	0.13	0.53	0.83	Pass
102	5510	-5.73	-6.02	-5.84	-5.58	0.13	0.36	0.83	Pass
110	5550	-6.40	-5.80	-5.00	-6.06	0.13	0.36	0.83	Pass
134	5670	-5.36	-5.09	-6.47	-5.82	0.13	0.49	0.83	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.17dBi > 6dBi, so the power density limit shall be reduced to 11-(16.17-6) = 0.83dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

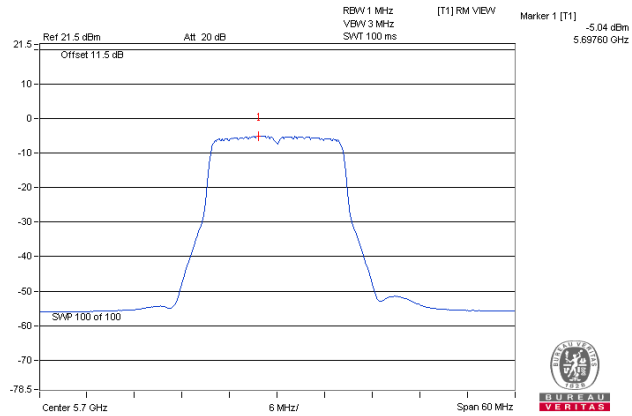
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
58	5290	-9.64	-8.71	-9.20	-8.56	0.26	-2.73	0.83	Pass
106	5530	-12.38	-13.50	-11.86	-12.12	0.26	-6.14	0.83	Pass
122	5610	-9.35	-7.89	-9.20	-8.61	0.26	-2.44	0.83	Pass

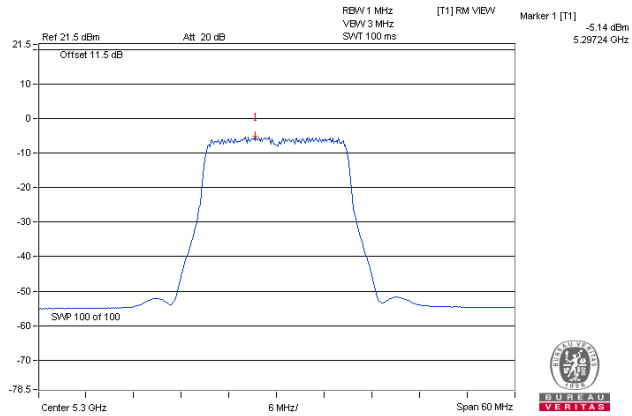
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.17dBi > 6dBi, so the power density limit shall be reduced to 11-(16.17-6) = 0.83dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

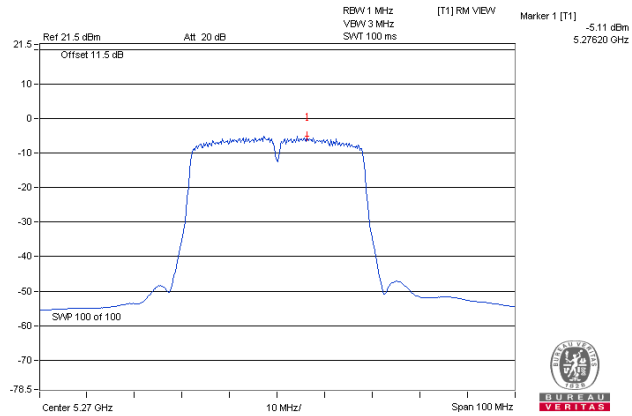
802.11a / Chain 1 / CH 140



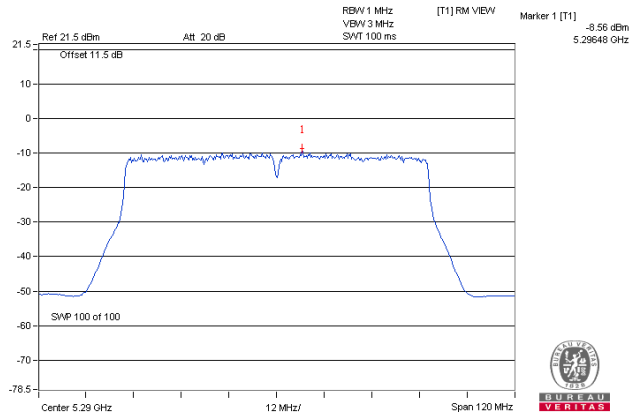
802.11n (HT20) / Chain 0 / CH 60



802.11n (HT40)/ Chain 0 / CH 54



802.11ac (VHT80) / Chain 3 / CH 58



Test Mode D

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
52	5260	-9.73	-9.64	-9.75	-9.74	0.15	-3.55	-2.97	Pass
60	5300	-9.53	-9.84	-9.82	-9.83	0.15	-3.59	-2.97	Pass
64	5320	-9.65	-9.63	-9.62	-9.86	0.15	-3.52	-2.97	Pass
100	5500	-9.72	-9.70	-9.67	-9.65	0.15	-3.52	-2.97	Pass
116	5580	-9.68	-9.68	-9.67	-9.68	0.15	-3.51	-2.97	Pass
140	5700	-9.93	-9.67	-9.73	-9.74	0.15	-3.60	-2.97	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi > 6dBi, so the power density limit shall be reduced to 11-(19.97-6) = -2.97dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
52	5260	-9.76	-9.52	-9.61	-9.60	-3.60	-2.97	Pass
60	5300	-9.50	-9.83	-9.78	-9.20	-3.55	-2.97	Pass
64	5320	-9.59	-9.95	-10.08	-9.25	-3.68	-2.97	Pass
100	5500	-9.74	-9.90	-9.31	-9.97	-3.70	-2.97	Pass
116	5580	-9.64	-10.11	-9.22	-10.30	-3.78	-2.97	Pass
140	5700	-9.86	-9.67	-9.80	-9.80	-3.76	-2.97	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi > 6dBi, so the power density limit shall be reduced to 11-(19.97-6) = -2.97dBm.

802.11n (HT40)

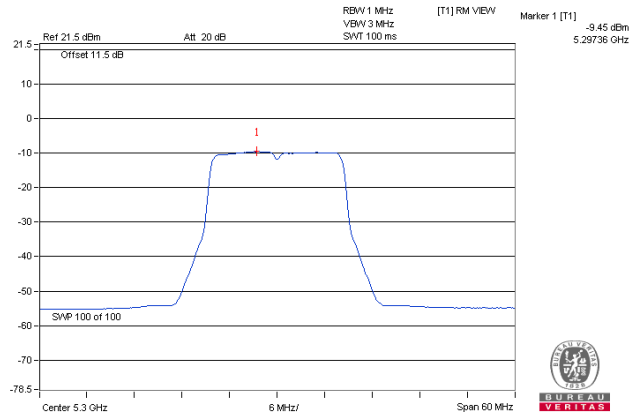
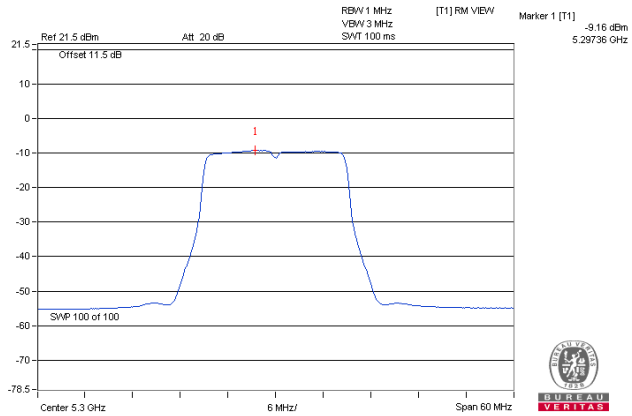
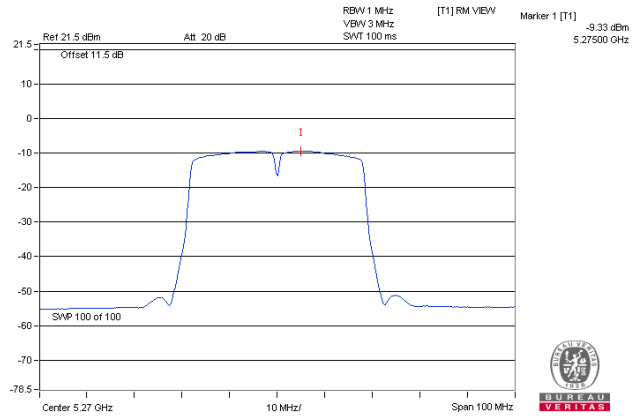
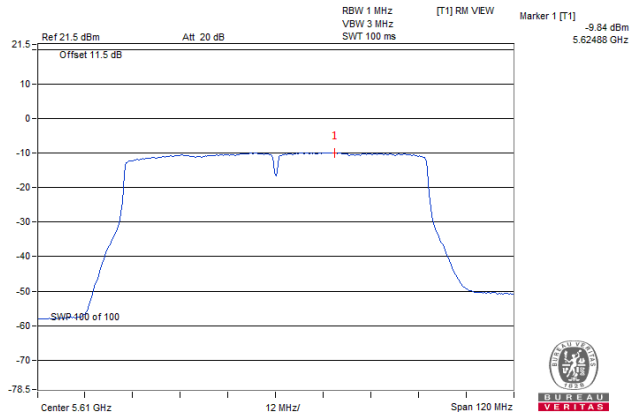
Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
54	5270	-10.12	-9.35	-9.63	-9.56	0.13	-3.51	-2.97	Pass
62	5310	-9.90	-9.85	-9.47	-9.93	0.13	-3.64	-2.97	Pass
102	5510	-9.92	-9.94	-9.48	-9.53	0.13	-3.56	-2.97	Pass
110	5550	-10.04	-9.95	-9.65	-9.66	0.13	-3.67	-2.97	Pass
134	5670	-10.53	-9.62	-9.96	-9.99	0.13	-3.87	-2.97	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi > 6dBi, so the power density limit shall be reduced to 11-(19.97-6) = -2.97dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
58	5290	-10.68	-10.55	-11.13	-11.07	0.26	-4.57	-2.97	Pass
106	5530	-10.53	-10.45	-10.92	-10.89	0.26	-4.41	-2.97	Pass
122	5610	-11.11	-9.84	-11.65	-11.05	0.26	-4.58	-2.97	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 19.97dBi > 6dBi, so the power density limit shall be reduced to 11-(19.97-6) = -2.97dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 0 / CH 60	802.11n (HT20) / Chain 3 / CH 60
	
802.11n (HT40)/ Chain 1 / CH 54	802.11ac (VHT80) / Chain 1 / CH 122
	

Test Mode E

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
52	5260	-6.05	-5.23	-5.78	-5.81	0.15	0.46	0.92	Pass
60	5300	-5.95	-5.95	-5.50	-5.82	0.15	0.37	0.92	Pass
64	5320	-5.88	-5.42	-5.78	-5.87	0.15	0.43	0.92	Pass
100	5500	-5.90	-5.91	-5.68	-5.76	0.15	0.35	0.92	Pass
116	5580	-5.94	-5.28	-5.71	-5.88	0.15	0.47	0.92	Pass
140	5700	-6.00	-5.31	-6.02	-5.71	0.15	0.42	0.92	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.08dBi > 6dBi, so the power density limit shall be reduced to 11-(16.08-6) = 0.92dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
52	5260	-6.29	-5.43	-5.82	-5.95	0.16	0.92	Pass
60	5300	-5.85	-5.16	-5.62	-5.96	0.38	0.92	Pass
64	5320	-6.28	-5.29	-5.82	-5.94	0.20	0.92	Pass
100	5500	-5.97	-5.02	-6.56	-5.88	0.20	0.92	Pass
116	5580	-6.05	-5.41	-6.35	-5.92	0.10	0.92	Pass
140	5700	-6.11	-5.37	-6.64	-5.71	0.09	0.92	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.08dBi > 6dBi, so the power density limit shall be reduced to 11-(16.08-6) = 0.92dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
54	5270	-6.28	-5.41	-5.89	-6.00	0.13	0.26	0.92	Pass
62	5310	-6.15	-5.20	-6.06	-6.28	0.13	0.25	0.92	Pass
102	5510	-6.54	-5.11	-6.28	-5.90	0.13	0.22	0.92	Pass
110	5550	-6.20	-5.40	-6.22	-5.82	0.13	0.25	0.92	Pass
134	5670	-6.24	-5.50	-6.23	-5.99	0.13	0.17	0.92	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[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.08dBi > 6dBi, so the power density limit shall be reduced to 11-(16.08-6) = 0.92dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

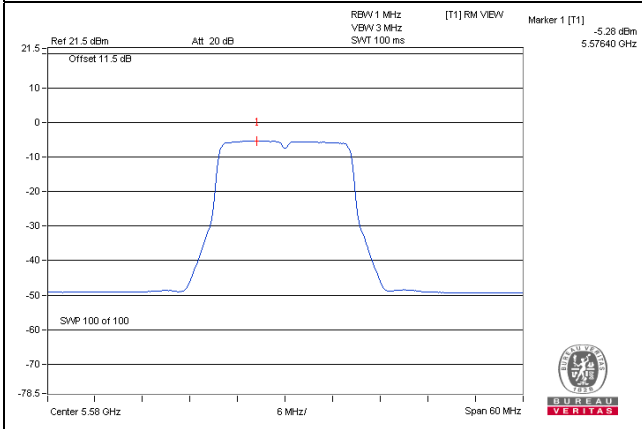
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
58	5290	-7.29	-6.02	-7.19	-6.90	0.26	-0.54	0.92	Pass
106	5530	-10.46	-9.60	-10.66	-6.92	0.26	-2.85	0.92	Pass
122	5610	-9.51	-9.72	-9.78	-9.21	0.26	-3.27	0.92	Pass

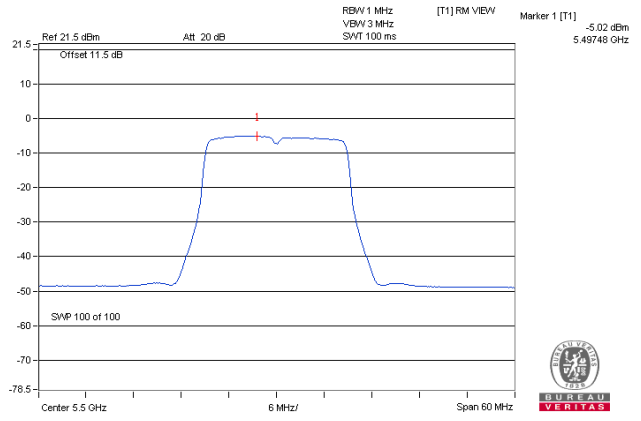
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$] = 16.08dBi > 6dBi, so the power density limit shall be reduced to 11-(16.08-6) = 0.92dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

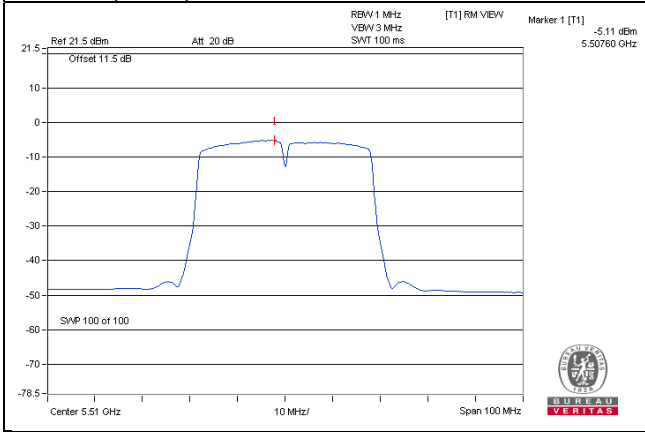
802.11a / Chain 1 / CH 116



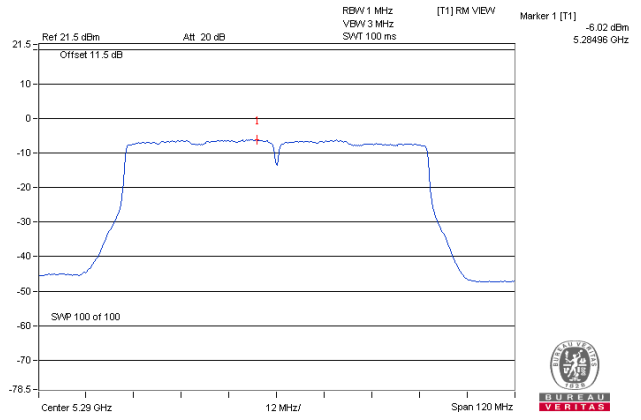
802.11n (HT20) / Chain 1 / CH 100



802.11n (HT40)/ Chain 1 / CH 102



802.11ac (VHT80) / Chain 1 / CH 58



Test Mode F

802.11a

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
52	5260	-8.63	-7.09	-8.29	-8.40	0.20	-1.84	-1.80	Pass
60	5300	-8.49	-8.64	-7.96	-7.95	0.20	-2.03	-1.80	Pass
64	5320	-8.59	-8.84	-8.10	-8.21	0.20	-2.21	-1.80	Pass
100	5500	-8.55	-6.91	-8.75	-8.05	0.20	-1.79	-1.80	Pass
116	5580	-9.77	-7.28	-7.48	-8.51	0.20	-1.94	-1.80	Pass
140	5700	-9.66	-7.40	-7.49	-8.47	0.20	-1.95	-1.80	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 = 12.78dBi + 10log(4)= 18.80dBi > 6dBi, so the power density limit shall be reduced to 11-(18.80-6) = -1.80dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
52	5260	-8.18	-7.81	-8.04	-8.49	0.21	-1.89	-1.80	Pass
60	5300	-8.34	-7.46	-8.17	-8.04	0.21	-1.76	-1.80	Pass
64	5320	-8.53	-8.24	-8.44	-7.79	0.21	-2.01	-1.80	Pass
100	5500	-8.75	-8.15	-8.22	-7.96	0.21	-2.03	-1.80	Pass
116	5580	-9.95	-8.05	-8.73	-8.53	0.21	-2.53	-1.80	Pass
140	5700	-9.24	-7.81	-8.12	-8.03	0.21	-2.04	-1.80	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 = 12.78dBi + 10log(4)= 18.80dBi > 6dBi, so the power density limit shall be reduced to 11-(18.80-6) = -1.80dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
54	5270	-8.07	-8.11	-7.97	-8.04	0.48	-1.55	-1.80	Pass
62	5310	-8.33	-7.99	-7.95	-7.96	0.48	-1.56	-1.80	Pass
102	5510	-8.24	-8.16	-7.56	-8.10	0.48	-1.51	-1.80	Pass
110	5550	-9.01	-7.83	-8.04	-7.82	0.48	-1.65	-1.80	Pass
134	5670	-8.79	-7.90	-7.77	-7.56	0.48	-1.48	-1.80	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 = 12.78dBi + 10log(4)= 18.80dBi > 6dBi, so the power density limit shall be reduced to 11-(18.80-6) = -1.80dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

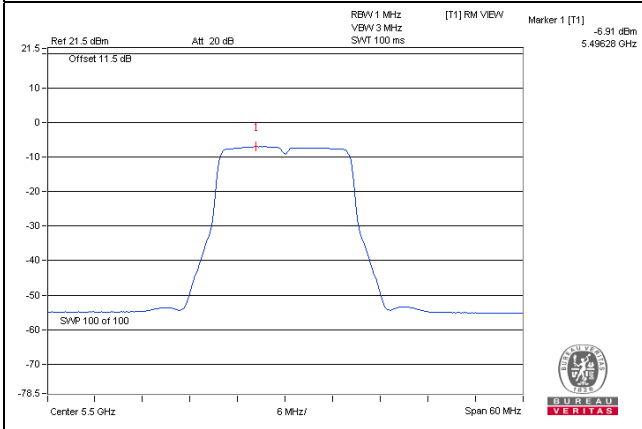
802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD W/O Duty Factor (dBm)				Duty Factor (dB)	Total PSD With Duty Factor (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
58	5290	-12.16	-10.93	-11.48	-11.39	0.78	-4.67	-1.80	Pass
106	5530	-12.37	-10.60	-11.61	-11.42	0.78	-4.66	-1.80	Pass
122	5610	-10.35	-9.29	-10.51	-9.89	0.78	-3.18	-1.80	Pass

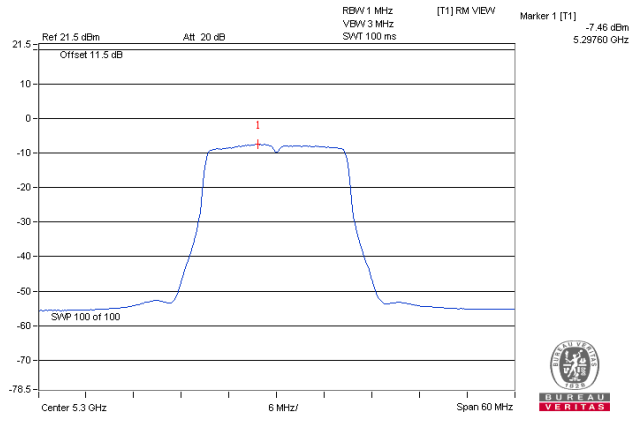
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 12.78dBi + 10log(4)= 18.80dBi > 6dBi, so the power density limit shall be reduced to 11-(18.80-6) = -1.80dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

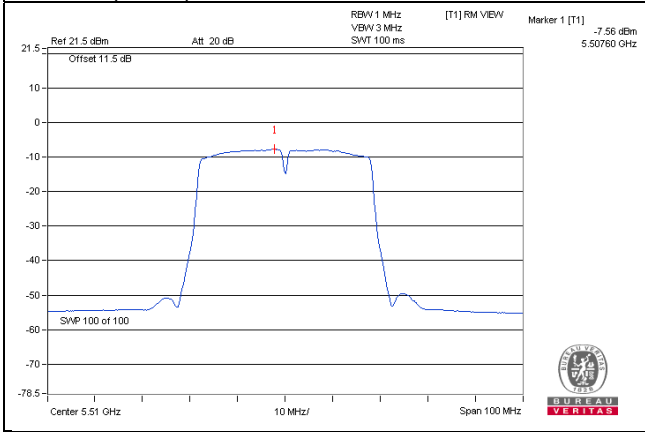
802.11a / Chain 1 / CH 100



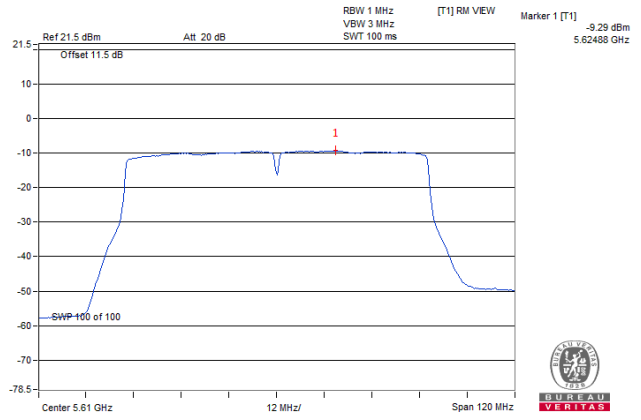
802.11n (HT20) / Chain 1 / CH 60



802.11n (HT40) / Chain 2 / CH 102



802.11ac (VHT80) / Chain 1 / CH 122

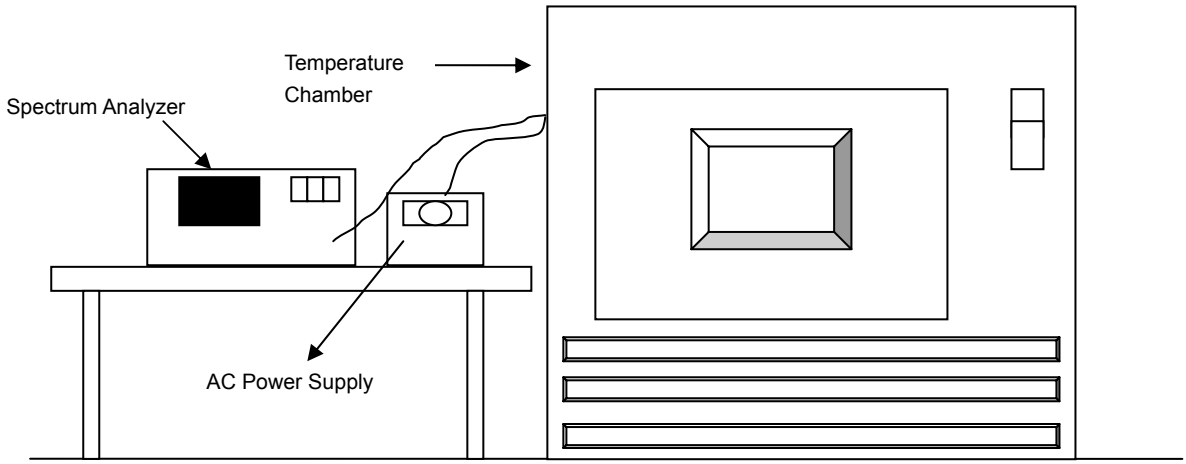


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.

b. Turn the EUT on and couple its output to a spectrum analyzer.

c. Turn the EUT off and set the chamber to the highest temperature specified.

d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.

e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.

f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Test Mode A

Frequency Stability Versus Temp.									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5260.0120	0.00023	5260.0128	0.00024	5260.0133	0.00025	5260.0120	0.00023
40	120	5259.9806	-0.00037	5259.9794	-0.00039	5259.9791	-0.00040	5259.9761	-0.00045
30	120	5259.9844	-0.00030	5259.9826	-0.00033	5259.9854	-0.00028	5259.9812	-0.00036
20	120	5260.0072	0.00014	5260.0024	0.00005	5260.0056	0.00011	5260.0053	0.00010
10	120	5259.9776	-0.00043	5259.9784	-0.00041	5259.9765	-0.00045	5259.9793	-0.00039
0	120	5260.0218	0.00041	5260.0181	0.00034	5260.0169	0.00032	5260.0207	0.00039
-10	120	5260.0068	0.00013	5260.0086	0.00016	5260.0078	0.00015	5260.0078	0.00015
-20	120	5259.9926	-0.00014	5259.9950	-0.00010	5259.9907	-0.00018	5259.9918	-0.00016
-30	120	5259.9802	-0.00038	5259.9814	-0.00035	5259.9780	-0.00042	5259.9803	-0.00037

Frequency Stability Versus Voltage									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5260.0077	0.00015	5260.0028	0.00005	5260.0048	0.00009	5260.0058	0.00011
	120	5260.0072	0.00014	5260.0024	0.00005	5260.0056	0.00011	5260.0053	0.00010
	102	5260.0072	0.00014	5260.0027	0.00005	5260.0058	0.00011	5260.0051	0.00010

Test Mode B

Frequency Stability Versus Temp.									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5259.9968	-0.00006	5259.9927	-0.00014	5259.9961	-0.00007	5259.9953	-0.00009
40	120	5260.0019	0.00004	5259.9990	-0.00002	5260.0025	0.00005	5260.0024	0.00005
30	120	5259.9720	-0.00053	5259.9718	-0.00054	5259.9737	-0.00050	5259.9761	-0.00045
20	120	5259.9881	-0.00023	5259.9901	-0.00019	5259.9873	-0.00024	5259.9879	-0.00023
10	120	5259.9826	-0.00033	5259.9829	-0.00033	5259.9812	-0.00036	5259.9822	-0.00034
0	120	5259.9903	-0.00018	5259.9896	-0.00020	5259.9883	-0.00022	5259.9912	-0.00017
-10	120	5259.9819	-0.00034	5259.9797	-0.00039	5259.9791	-0.00040	5259.9826	-0.00033
-20	120	5259.9967	-0.00006	5259.9961	-0.00007	5259.9942	-0.00011	5259.9921	-0.00015
-30	120	5259.9989	-0.00002	5259.9985	-0.00003	5259.9988	-0.00002	5259.9939	-0.00012

Frequency Stability Versus Voltage									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5259.9890	-0.00021	5259.9909	-0.00017	5259.9879	-0.00023	5259.9873	-0.00024
	120	5259.9881	-0.00023	5259.9901	-0.00019	5259.9873	-0.00024	5259.9879	-0.00023
	102	5259.9871	-0.00025	5259.9901	-0.00019	5259.9877	-0.00023	5259.9879	-0.00023

Test Mode C

Frequency Stability Versus Temp.									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5259.9849	-0.00029	5259.9857	-0.00027	5259.983	-0.00032	5259.9856	-0.00027
40	120	5259.9981	-0.00004	5259.9957	-0.00008	5259.9981	-0.00004	5259.9942	-0.00011
30	120	5260.0034	0.00006	5260.0035	0.00007	5260.0023	0.00004	5260.0040	0.00008
20	120	5260.0202	0.00038	5260.0202	0.00038	5260.0243	0.00046	5260.0232	0.00044
10	120	5259.9994	-0.00001	5260.0006	0.00001	5259.9993	-0.00001	5259.9996	-0.00001
0	120	5259.9812	-0.00036	5259.9795	-0.00039	5259.9822	-0.00034	5259.9815	-0.00035
-10	120	5260.0244	0.00046	5260.0239	0.00045	5260.0214	0.00041	5260.0207	0.00039
-20	120	5260.0068	0.00013	5260.0088	0.00017	5260.0105	0.00020	5260.0061	0.00012
-30	120	5260.0225	0.00043	5260.0225	0.00043	5260.0196	0.00037	5260.0198	0.00038

Frequency Stability Versus Voltage									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5260.0211	0.00040	5260.0207	0.00039	5260.0253	0.00048	5260.0240	0.00046
	120	5260.0202	0.00038	5260.0202	0.00038	5260.0243	0.00046	5260.0232	0.00044
	102	5260.0210	0.00040	5260.0203	0.00039	5260.0243	0.00046	5260.0235	0.00045

Test Mode D

Frequency Stability Versus Temp.									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5259.9849	-0.00029	5259.9857	-0.00027	5259.983	-0.00032	5259.9856	-0.00027
40	120	5259.9981	-0.00004	5259.9957	-0.00008	5259.9981	-0.00004	5259.9942	-0.00011
30	120	5260.0034	0.00006	5260.0035	0.00007	5260.0023	0.00004	5260.0040	0.00008
20	120	5260.0202	0.00038	5260.0202	0.00038	5260.0243	0.00046	5260.0232	0.00044
10	120	5259.9994	-0.00001	5260.0006	0.00001	5259.9993	-0.00001	5259.9996	-0.00001
0	120	5259.9812	-0.00036	5259.9795	-0.00039	5259.9822	-0.00034	5259.9815	-0.00035
-10	120	5260.0244	0.00046	5260.0239	0.00045	5260.0214	0.00041	5260.0207	0.00039
-20	120	5260.0068	0.00013	5260.0088	0.00017	5260.0105	0.00020	5260.0061	0.00012
-30	120	5260.0225	0.00043	5260.0225	0.00043	5260.0196	0.00037	5260.0198	0.00038

Frequency Stability Versus Voltage									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5260.0211	0.00040	5260.0207	0.00039	5260.0253	0.00048	5260.0240	0.00046
	120	5260.0202	0.00038	5260.0202	0.00038	5260.0243	0.00046	5260.0232	0.00044
	102	5260.0210	0.00040	5260.0203	0.00039	5260.0243	0.00046	5260.0235	0.00045

Test Mode E

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5700.0147	0.00026	5700.0150	0.00026	5700.0139	0.00024	5700.0158	0.00028
40	120	5699.9901	-0.00017	5699.9882	-0.00021	5699.9875	-0.00022	5699.9907	-0.00016
30	120	5700.0108	0.00019	5700.0140	0.00025	5700.0124	0.00022	5700.0115	0.00020
20	120	5699.9898	-0.00018	5699.9855	-0.00025	5699.9873	-0.00022	5699.9889	-0.00019
10	120	5700.0221	0.00039	5700.0215	0.00038	5700.0264	0.00046	5700.0238	0.00042
0	120	5699.9916	-0.00015	5699.9927	-0.00013	5699.9968	-0.00006	5699.9960	-0.00007
-10	120	5699.9953	-0.00008	5699.9984	-0.00003	5699.9936	-0.00011	5699.9951	-0.00009
-20	120	5700.0159	0.00028	5700.0137	0.00024	5700.0131	0.00023	5700.0159	0.00028
-30	120	5699.9757	-0.00043	5699.9766	-0.00041	5699.9767	-0.00041	5699.9774	-0.00040

Frequency Stability Versus Voltage									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5699.9894	-0.00019	5699.9854	-0.00026	5699.9862	-0.00024	5699.9878	-0.00021
	120	5699.9898	-0.00018	5699.9855	-0.00025	5699.9873	-0.00022	5699.9889	-0.00019
	102	5699.9902	-0.00017	5699.9851	-0.00026	5699.9862	-0.00024	5699.9898	-0.00018

Test Mode F

Frequency Stability Versus Temp.									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
50	120	5699.9988	-0.00002	5699.9972	-0.00005	5699.9989	-0.00002	5699.9955	-0.00008
40	120	5699.9746	-0.00045	5699.9737	-0.00046	5699.9787	-0.00037	5699.9790	-0.00037
30	120	5700.0274	0.00048	5700.0252	0.00044	5700.0257	0.00045	5700.0269	0.00047
20	120	5699.9857	-0.00025	5699.9809	-0.00034	5699.9817	-0.00032	5699.9833	-0.00029
10	120	5699.9865	-0.00024	5699.9883	-0.00021	5699.9886	-0.00020	5699.9855	-0.00025
0	120	5699.9781	-0.00038	5699.9736	-0.00046	5699.9745	-0.00045	5699.9747	-0.00044
-10	120	5700.0221	0.00039	5700.0259	0.00045	5700.0221	0.00039	5700.0235	0.00041
-20	120	5699.9992	-0.00001	5700.0016	0.00003	5700.0016	0.00003	5700.0000	0.00000
-30	120	5700.0123	0.00022	5700.0093	0.00016	5700.0126	0.00022	5700.0125	0.00022

Frequency Stability Versus Voltage									
Operating Frequency: 5700MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5699.9860	-0.00025	5699.9818	-0.00032	5699.9828	-0.00030	5699.9825	-0.00031
	120	5699.9857	-0.00025	5699.9809	-0.00034	5699.9817	-0.00032	5699.9833	-0.00029
	102	5699.9860	-0.00025	5699.9816	-0.00032	5699.9808	-0.00034	5699.9830	-0.00030

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

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

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