

FCC TEST REPORT

(Part 15, Subpart E)


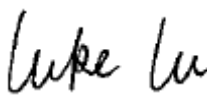
Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong, China

Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Product:	Smart Mobile Payment Terminal
Brand Name:	PAX
Model Name:	A920Pro
FCC ID:	V5PA920PRO
Date of tests:	Mar. 25, 2020 ~ May. 14, 2020

The tests have been carried out according to the requirements of the following standard:

FCC Part 15, Subpart E, Section 15.407

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Alex Chen Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: May. 14, 2020	 Date: May. 14, 2020

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BUREAU
VERITAS

Test Report No.: RF200324W001-3

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF200324W001-3	Original release	May. 14, 2020



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	TEST LAB*
15.407(b)(6)	AC Power Conducted Emission	Compliance	A
15.407(b) (1/2/3/4/5)	Radiated Emission & Band Edge Measurement	Compliance	B
15.407(a/1/2/3)	Maximum conducted output Power	Compliance	A
15.407(a/1/2/3)	Peak Power Spectral Density	Compliance	A
15.403(i)	26 dB Bandwidth	Compliance	A
15.407(e)	6 dB Bandwidth	Compliance	A
15.203	Antenna Requirement	Compliance	A

*Test Lab Information Reference

Lab A:

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

Lab Address:

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

The FCC Site Registration No. is 525120; The Designation No. is CN1171.

Lab B:

Bureau Veritas (Shenzhen) Consumer Products Service

Lab Address:

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108

The FCC Site Registration No. is 535293.



1.1 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	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Mobile Payment Terminal
BRAND NAME	PAX
MODEL NAME	A920Pro
NOMINAL VOLTAGE	DC 3.7V
MODULATION	OFDM
TRANSFER RATE	802.11a: 6 Mbps(Measured Worst) 802.11n20/ac 20: MCS0 (Measured Worst) 802.11n40/ac 40: MCS0 (Measured Worst) 802.11ac80: MCS0 (Measured Worst)
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/11ac (20MHz) 2 for 802.11n/11ac (40MHz) 1 for 802.11ac (80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/11ac (20MHz) 2 for 802.11n/11ac (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5720MHz: 12 for 802.11a, 802.11n, 802.11ac(20MHz) 6 for 802.11n, 802.11ac (40MHz) 3 for 802.11ac (80MHz) 5745 ~ 5825MHz: 6 for 802.11a, 802.11n/11ac (20MHz) 3 for 802.11n/11ac (40MHz) 2 for 802.11ac (80MHz)
AVERAGE POWER	31.48mW for 5180 ~ 5240MHz 31.48mW for 5260 ~ 5320MHz 31.48mW for 5500 ~ 5720MHz 31.41mW for 5745 ~ 5825MHz
ANTENNA TYPE	FPC Antenna with 1.5dBi gain
HW VERSION	N/A
SW VERSION	N/A
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A



NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one transmitters and one receivers

MODULATION MODE	TX FUNCTION
802.11a	1TX /1RX
802.11n/802.11ac (20MHz)	1TX /1RX
802.11n/802.11ac (40MHz)	1TX /1RX
802.11ac (80MHz)	1TX /1RX

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

4. List of Accessory:

ACCESSORIES	BRAND	MODEL	MANUFACTURER	SPECIFICATION
AC Adapter	N/A	GLH50D2000HW	/	Input: 100-240V~50/60Hz 0.40A Output: 5.0V---2000mA
Battery	VEKEN	YW-008	NingBo Veken Battery Co., Ltd.	Rating : 3.7V---5150mAh 19.05Wh, Rechargeable Li-ion Battery

5. The device will automatically discontinue transmission in case of either absence of information to transmit or operational failure.



2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5250 ~ 5350MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		



FOR 5470 ~ 5725MHz

12 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620MHz
104	5520 MHz	128	5640MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz
138	5690 MHz		

FOR 5725 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n, 802.11ac (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	157	5785 MHz
153	5765 MHz	165	5825 MHz
144	5720 MHz		

3 channels are provided for 802.11n, 802.11ac (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz
142	5710 MHz		

2 channel is provided for 802.11ac (80MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775 MHz	138	5690 MHz



2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE \geq 1G	RE<1G	PLC	APCM	
A	√	√	√	-	Powered by Adapter with wifi(5G) link
B	-	-	-	√	Powered by Battery with wifi(5G) link
C	-	-	-	-	Powered by USB with wifi(5G) link

Where

RE \geq 1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: "-" means no effect.



RADIATED EMISSION TEST (ABOVE 1GHz):

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
A	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 122, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11n (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11n (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138 to 155	138, 155	OFDM	MCS0



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	DATA RATE (Mbps)
A	802.11n40	5180-5240	38 to 46	38	OFDM	MCS0

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	DATA RATE (Mbps)
A	802.11n40	5180-5240	38 to 46	38	OFDM	MCS0



BANDEDGE MEASUREMENT:

- 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	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11n (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
A	802.11ac (80MHz)		42	42	OFDM	MCS0
A	802.11a	5260-5320	52 to 64	52, 64	OFDM	6.0
A	802.11n (20MHz)		52 to 64	52, 64	OFDM	MCS0
A	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 122, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157, 165	OFDM	6.0
A	802.11n (20MHz)		144 to 165	144, 149, 157, 165	OFDM	MCS0
A	802.11n (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138 to 155	138, 155	OFDM	MCS0



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	DATA RATE (Mbps)
B	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
B	802.11n (20MHz)		36 to 48	36, 40, 48	OFDM	MCS0
B	802.11n (40MHz)		38 to 46	38, 46	OFDM	MCS0
B	802.11ac (80MHz)		42	42	OFDM	MCS0
B	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
B	802.11n (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
B	802.11n (40MHz)		54 to 62	54, 62	OFDM	MCS0
B	802.11ac (80MHz)		58	58	OFDM	MCS0
B	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
B	802.11n (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
B	802.11n (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
B	802.11ac (80MHz)		106 to 138	106, 122, 138	OFDM	MCS0
B	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
B	802.11n (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
B	802.11n (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
B	802.11ac (80MHz)		138 to 155	138, 155	OFDM	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 3.7V	Aaron Liang
RE≥1G	23deg. C, 70%RH	DC 3.7V	Aaron Liang
PLC	25deg. C, 52%RH	DC 3.7V	Chase Zhou
APCM	25deg. C, 60%RH	DC 3.7V	Harris Wang



2.3 DUTY CYCLE OF TEST SIGNAL

Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 100%, Duty factor shall not be considered

802.11n (20MHz): Duty cycle = 100%, Duty factor shall not be considered

802.11n (40MHz): Duty cycle = 100%, Duty factor shall not be considered

802.11ac (80MHz): Duty cycle = 100%, Duty factor shall not be considered





2.4 DESCRIPTION OF SUPPORT UNITS

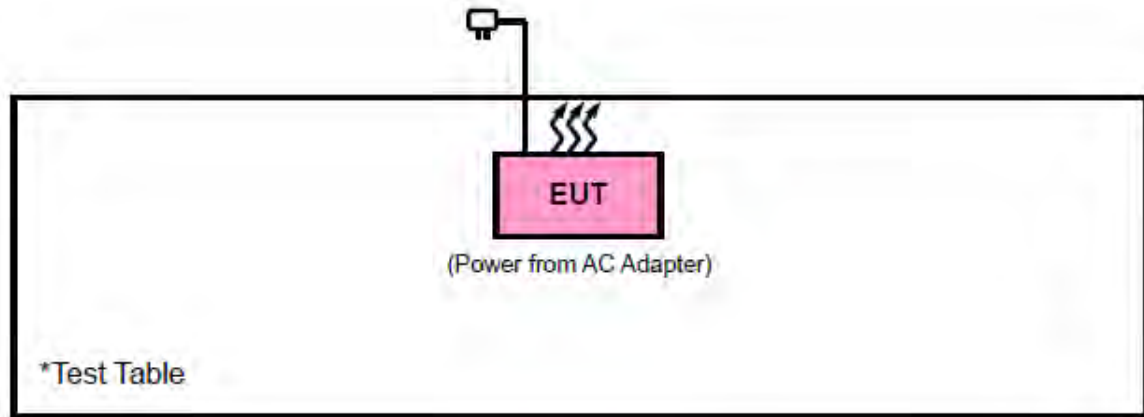
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	N/A	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A



2.4.1 CONFIGURATION OF SYSTEM UNDER TEST



2.5 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 U-NII Test Procedures New Rules v02r01

ANSI C63.10-2013

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

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Sdoc). The test report has been issued separately.



3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 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.

3.1.2 LIMITS OF UNWANTED EMISSION

RESTRICTED BANDS	APPLICABLE TO	LIMIT	
	789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m (dBµV/m)	
	PK : 74	AV : 54	
OUT OF THE RESTRICTED BANDS	APPLICABLE TO	EIRP LIMIT (dBm/MHz)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)
	15.407(b)(1)	PK : -27	PK : 68.3
	15.407(b)(2)		
	15.407(b)(3)		
15.407(b)(4)	See note 2 (FCC 16-24)		



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

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

2. All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.1.3 TEST INSTRUMENTS

FREQUENCY RANGE BELOW 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESL6	1300.5001K06-100262-eQ	Mar. 24,20	Mar. 24,21
Bilog Antenna	Sunol Sciences	JB6	A110712	Apr. 08, 20	Apr. 07,21
Active Antenna	CMO-POWER	AL-130	121031	Mar. 27, 20	Mar. 26, 21
Signal Amplifier	HP	8447E	443008	Mar. 24, 20	Mar. 24, 21
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A
Universal Radio Communication	ROHDE&SCHWARZ	CMU200	112012	Mar. 24,20	Mar. 24,21
Wireless Communication Test Set	ROHDE&SCHWARZ	CMW500	1201.0002K500-155842-Gd	Nov. 1, 19	Oct. 31, 20



FREQUENCY RANGE ABOVE 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
MXA signal analyzer	Agilent	N9020A	MY49100060	Mar. 24, 20	Mar. 24, 21
Horn Antenna	COM-POWER	HAH-118	71259	Apr. 17, 20	Apr. 17, 21
Horn Antenna	COM-POWER	HAH-118	71283	Mar. 20, 20	Mar. 19, 21
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170147	Jun. 30, 20	Jun. 29, 21
SHF-EHF Horn	Schwarzbeck	BBHA9170	BBHA9170242	Jun. 30, 20	Jun. 29, 21
AMPLIFIER	EM Electornic Corporation	EM01G26G	60613	Mar. 24, 20	Mar. 24, 21
3m Semi-anechoic Chamber	SAEMC	9m*6m*6m	N/A	Oct. 18,18	Oct. 17,21
Test Software	EZ-EMC	ICP-03A1	N/A	N/A	N/A
Universal Radio Communication	ROHDE&SCHWARZ	CMU200	112012	Mar. 24,20	Mar. 24,21
Wireless Communication Test Set	ROHDE&SCHWARZ	CMW500	1201.0002K500-155842-Gd	Nov. 1, 19	Oct. 31, 20



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NOTE:

1. The calibration interval of the above test instruments is 12 months (except 3m Semi-anechoic Chamber). And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 535293.

3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

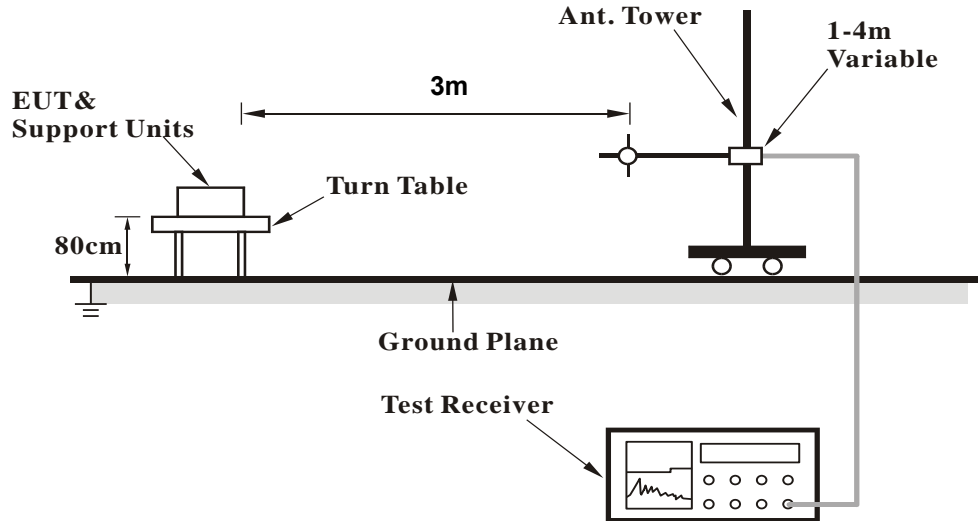
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

3.1.5 DEVIATION FROM TEST STANDARD

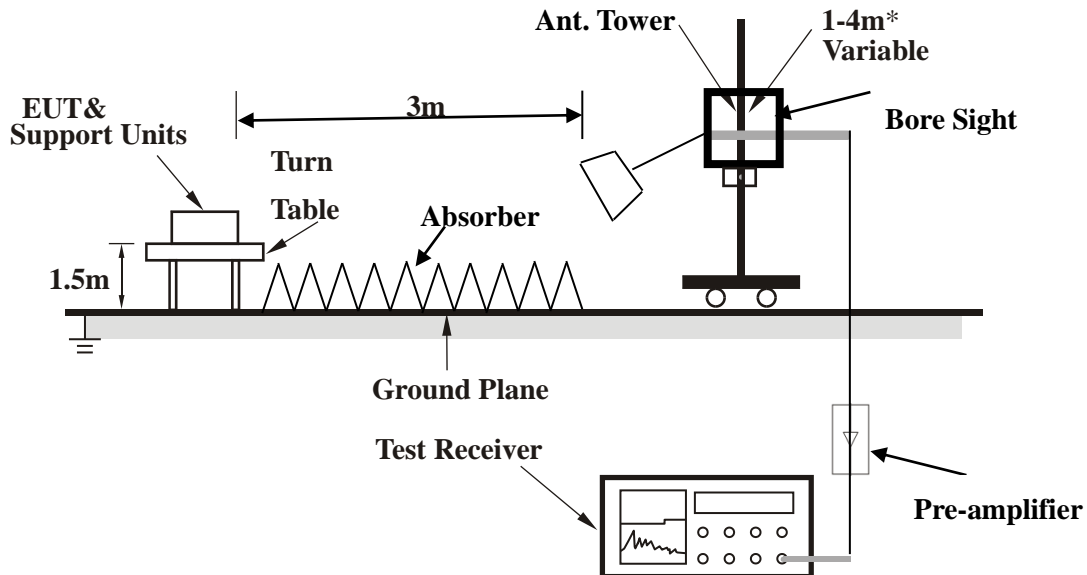
No deviation.

3.1.6 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

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



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3.1.7 EUT OPERATING CONDITION

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



3.1.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

802.11n (40MHZ)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Frequency	Reading	Detector	Ant_F	PA_G	Cab_L	Result	Limit	Margin	Height	Degree
(MHz)	(dBuV/m)		(dB/m)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	()
39.437 2	33.85	peak	13.1 7	22.2 8	0.18	24.92	40.00	-15.0 8	100	126
89.276 4	34.80	peak	7.63	22.3 3	0.62	20.72	43.50	-22.7 8	200	272
152.12 97	36.19	peak	10.9 3	22.3 3	1.28	26.07	43.50	-17.4 3	100	330
195.13 65	44.69	peak	11.4 4	22.3 5	1.53	35.31	43.50	-8.19	100	340
283.97 92	36.20	peak	13.3 2	22.2 9	1.68	28.91	46.00	-17.0 9	100	127
322.18 86	34.90	peak	14.1 4	22.2 3	1.78	28.59	46.00	-17.4 1	100	17

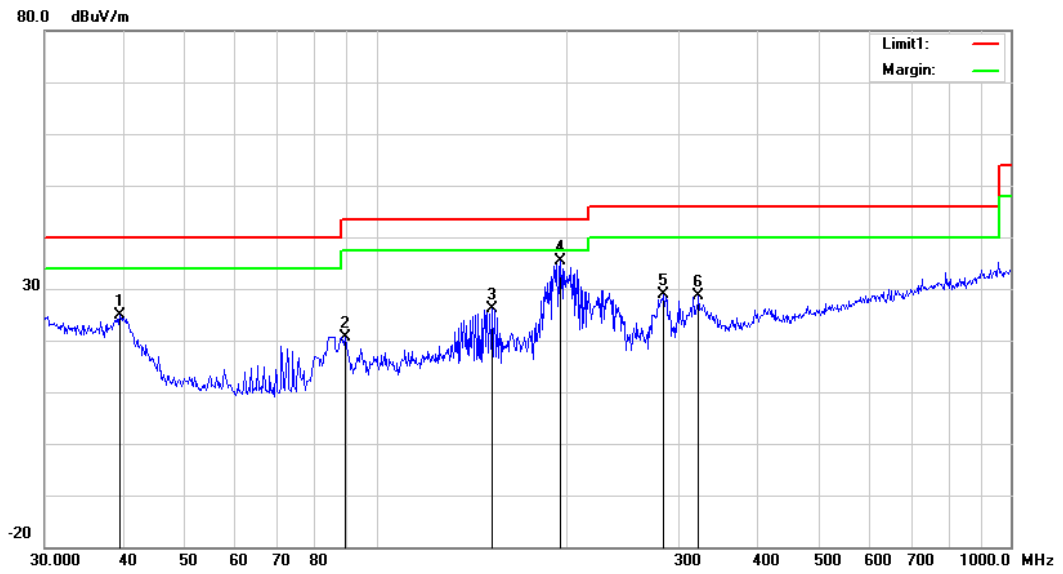
REMARKS:

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



BUREAU
VERITAS

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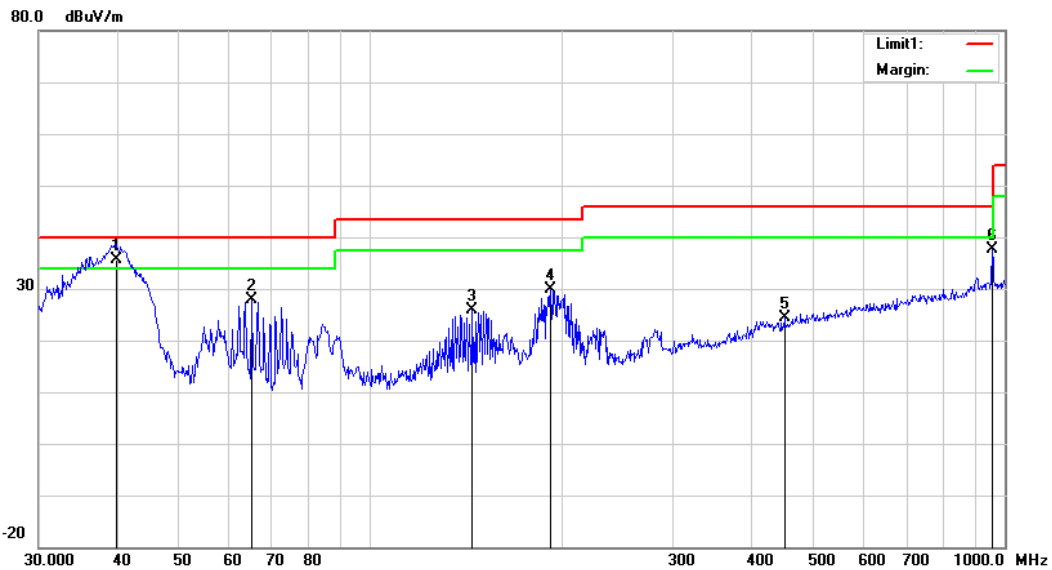


CHANNEL	Channel 38	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

Frequency (MHz)	Reading (dBuV/m)	Detector	Ant_F (dB/m)	PA_G (dB)	Cab_L (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree ()
39.714 7	44.77	QP	12.9 4	22.2 8	0.18	35.61	40.00	-4.39	100	208
64.886 5	43.14	peak	6.81	22.4 0	0.30	27.85	40.00	-12.1 5	100	298
144.84 18	35.88	peak	11.0 7	22.3 8	1.24	25.81	43.50	-17.6 9	100	109
192.41 86	39.23	peak	11.4 1	22.3 3	1.52	29.83	43.50	-13.6 7	200	91
449.55 58	27.10	peak	17.1 0	21.9 1	2.01	24.30	46.00	-21.7 0	100	323
955.43 81	32.09	peak	23.7 0	20.7 7	2.71	37.73	46.00	-8.27	100	118

REMARKS:

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





BUREAU
VERITAS

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ABOVE 1GHz WORST-CASE DATA:

Note: For higher frequency, the emission is too low to be detected.

Band 1
802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	56.51	PK	74	-17.49	215	122
2	5149.9	44.39	AV	54	-9.61	215	122
3	*5180.00	94.67	PK			146	268
4	*5180.00	83.51	AV			146	268
5	#10360.00	48.26	PK	74	-25.74	157	131
6	#10360.00	36.46	AV	54	-17.54	157	131
7	15540	43.65	PK	74	-30.35	181	34
8	15540	32.81	AV	54	-21.19	181	34

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	57.98	PK	74	-16.02	196	326
2	5149.9	45.53	AV	54	-8.47	196	326
3	*5180.00	101.07	PK			167	81
4	*5180.00	89.26	AV			167	81
5	#10360.00	48.81	PK	74	-25.19	139	354
6	#10360.00	36.27	AV	54	-17.73	139	354
7	15540	43.62	PK	74	-30.38	122	106
8	15540	31.64	AV	54	-22.36	122	106

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5180MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	57.43	PK	74	-16.57	221	176
2	5149.9	45.63	AV	54	-8.37	221	176
3	*5200.00	94.91	PK			150	73
4	*5200.00	82.71	AV			150	73
5	#10400	54.07	PK	74	-19.93	190	94
6	#10400	42.54	AV	54	-11.46	190	94
7	15600	51.77	PK	74	-22.23	242	225
8	15600	39.68	AV	54	-14.32	242	225
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	55.64	PK	74	-18.36	114	126
2	5149.9	43.74	AV	54	-10.26	114	126
3	*5200.00	101.75	PK			182	47
4	*5200.00	89.15	AV			182	47
5	#10400.00	48.44	PK	74	-25.56	213	35
6	#10400.00	36.57	AV	54	-17.43	213	35
7	15600	43.17	PK	74	-30.83	241	5
8	15600	32.92	AV	54	-21.08	241	5

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5200MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	56.31	PK	74	-17.69	145	289
2	5149.9	45.47	AV	54	-8.53	145	289
3	*5240.00	95.09	PK			125	32
4	*5240.00	83.64	AV			125	32
5	5350	56.56	PK	74	-17.44	174	327
6	5350	43.3	AV	54	-10.7	174	327
7	#10480.00	48.83	PK	74	-25.17	170	44
8	#10480.00	36.24	AV	54	-17.76	170	44
9	15720	43.93	PK	74	-30.07	160	86
10	15720	31.72	AV	54	-22.28	160	86

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	60.07	PK	74	-13.93	174	187
2	5149.9	48.92	AV	54	-5.08	174	187
3	*5240.00	101.77	PK			140	203
4	*5240.00	90.34	AV			140	203
5	5350	60.76	PK	74	-13.24	189	280
6	5350	48.37	AV	54	-5.63	189	280
7	#10480.00	49.5	PK	74	-24.5	197	123
8	#10480.00	37.62	AV	54	-16.38	197	123
9	15720	44.04	AV	74	-29.96	178	237
10	15720	33.28	AV	54	-20.72	178	237

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5240MHz: Fundamental frequency.



802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	57.92	PK	74	-16.08	242	6
2	5149.9	46.11	AV	54	-7.89	242	6
3	*5180.00	100.88	PK			169	238
4	*5180.00	89.61	AV			169	238
5	#10360.00	49.37	PK	74	-24.63	247	15
6	#10360.00	36.57	AV	54	-17.43	247	15
7	15540	43.64	PK	74	-30.36	128	352
8	15540	30.16	AV	54	-23.84	128	352
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	59.13	PK	74	-14.87	165	280
2	5149.9	47.83	AV	54	-6.17	165	280
3	*5180.00	99.47	PK			113	92
4	*5180.00	89.17	AV			113	92
5	#10360.00	48.3	PK	74	-25.7	149	220
6	#10360.00	36.79	AV	54	-17.21	149	220
7	15540	44.66	PK	74	-29.34	226	252
8	15540	43.69	AV	54	-10.31	226	252

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5180MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	56.59	PK	74	-17.41	162	20
2	5149.9	45.35	AV	54	-8.65	162	20
3	*5200.00	100.77	PK			227	42
4	*5200.00	88.64	AV			227	42
5	#10400	48.51	PK	74	-25.49	112	218
6	#10400	37.29	AV	54	-16.71	112	218
7	15600	43.29	PK	74	-30.71	179	76
8	15600	32.58	AV	54	-21.42	179	76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	56.16	PK	74	-17.84	179	90
2	5149.9	45.23	AV	54	-8.77	179	90
3	*5200.00	100.2	PK			199	330
4	*5200.00	88.51	AV			199	330
5	#10400.00	48.98	PK	74	-25.02	247	75
6	#10400.00	37.65	AV	54	-16.35	247	75
7	15600	43.35	PK	74	-30.65	228	146
8	15600	31.82	AV	54	-22.18	228	146

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5200MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	56.74	PK	74	-17.26	192	342
2	5149.9	45.62	AV	54	-8.38	192	342
3	*5240.00	99.45	PK			127	110
4	*5240.00	87.32	AV			127	110
5	5350	56.84	PK	74	-17.16	127	162
6	5350	45.76	AV	54	-8.24	127	162
7	#10480.00	49.08	PK	74	-24.92	195	213
8	#10480.00	38.34	AV	54	-15.66	195	213
9	15720	44.23	PK	74	-29.77	194	319
10	15720	32.92	AV	54	-21.08	194	319

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	57.31	PK	74	-16.69	220	322
2	5149.9	46.56	AV	54	-7.44	220	322
3	*5240.00	96.24	PK			249	322
4	*5240.00	84.47	AV			249	322
5	5350	56.96	PK	74	-17.04	164	158
6	5350	45.37	AV	54	-8.63	164	158
7	#10480.00	48.6	PK	74	-25.4	127	83
8	#10480.00	37.64	AV	54	-16.36	127	83
9	15720	44.65	AV	74	-29.35	127	236
10	15720	32.21	AV	54	-21.79	127	236

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5240MHz: Fundamental frequency.



802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	60.89	PK	74	-13.11	229	278
2	5149.9	48.38	AV	54	-5.62	229	278
3	*5190.00	97.55	PK			220	284
4	*5190.00	85.62	AV			220	284
5	#10380.00	48.16	PK	74	-25.84	217	22
6	#10380.00	36.41	AV	54	-17.59	217	22
7	15570	44.41	PK	74	-29.59	151	161
8	15570	32.17	AV	54	-21.83	151	161

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	61.25	PK	74	-12.75	135	347
2	5149.9	50.73	AV	54	-3.27	135	347
3	*5190.00	97.55	PK			233	40
4	*5190.00	84.56	AV			233	40
5	#10380.00	48	PK	74	-26	152	70
6	#10380.00	36.37	AV	54	-17.63	152	70
7	15570	43.63	PK	74	-30.37	207	35
8	15570	32.67	AV	54	-21.33	207	35

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5190MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	56.74	PK	74	-17.26	224	84
2	5149.9	41.69	AV	54	-12.31	224	84
3	*5230.00	95.52	PK			208	98
4	*5230.00	83.42	AV			208	98
5	5350	56.64	PK	74	-17.36	200	125
6	5350	43.97	AV	54	-10.03	200	125
7	#10460.00	48.7	PK	74	-25.3	115	157
8	#10460.00	36.42	AV	54	-17.58	115	157
9	15690	44.42	PK	74	-29.58	169	332
10	15690	31.27	AV	54	-22.73	169	332

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	56.46	PK	74	-17.54	110	272
2	5149.9	42.34	AV	54	-11.66	110	272
3	*5230.00	96.06	PK			146	315
4	*5230.00	83.3	AV			146	315
5	5350	56.66	PK	74	-17.34	229	269
6	5350	45.14	AV	54	-8.86	229	269
7	#10460.00	48.75	PK	74	-25.25	207	182
8	#10460.00	36.51	AV	54	-17.49	207	182
9	15690	44.13	PK	74	-29.87	128	128
10	15690	33.49	AV	54	-20.51	128	128

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5230MHz: Fundamental frequency.



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	62.11	PK	74	-11.89	246	277
2	5149.9	50.31	AV	54	-3.69	246	277
3	*5210.00	94.49	PK			124	107
4	*5210.00	83.24	AV			124	107
5	#10420.00	49.62	PK	74	-24.38	186	44
6	#10420.00	38.64	AV	54	-15.36	186	44
7	15630	43.53	PK	74	-30.47	156	49
8	15630	31.25	AV	54	-22.75	156	49
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5149.9	59.64	PK	74	-14.36	204	53
2	5149.9	47.52	AV	54	-6.48	204	53
3	*5210.00	93.55	PK			118	15
4	*5210.00	81.37	AV			118	15
5	#10420.00	48.16	PK	74	-25.84	111	72
6	#10420.00	36.87	AV	54	-17.13	111	72
7	15630	44.99	PK	74	-29.01	125	308
8	15630	31.54	AV	54	-22.46	125	308

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5210MHz: Fundamental frequency.



**Band 2
802.11a**

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5260.00	98.85	PK			132	327
2	*5260.00	76.75	AV			132	327
3	5350	56.85	PK	74	-17.15	149	88
4	5350	43.2	AV	54	-10.8	149	88
5	10520	54.1	PK	74	-19.9	125	273
6	10520	42.39	AV	54	-11.61	125	273
7	15780	53.92	PK	74	-20.08	243	139
8	15780	40.21	AV	54	-13.79	243	139
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5260.00	102.01	PK			153	207
2	*5260.00	90.74	AV			153	207
3	5350	56.58	PK	74	-17.42	239	88
4	5350	43.26	AV	54	-10.74	239	88
5	10520	48.83	PK	74	-25.17	232	67
6	10520	36.74	AV	54	-17.26	232	67
7	15780	44.93	PK	74	-29.07	247	226
8	15780	33.16	AV	54	-20.84	247	226

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5260MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5300.00	94.59	PK			121	0
2	*5300.00	83.16	AV			121	0
3	5350	57.03	PK	74	-16.97	159	292
4	5350	45.81	AV	54	-8.19	159	292
5	10600	48.39	PK	74	-25.61	159	150
6	10600	36.5	AV	54	-17.5	159	150
7	15900	43.74	PK	74	-30.26	134	294
8	15900	30.62	AV	54	-23.38	134	294
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5300.00	98.89	PK			156	319
2	*5300.00	86.31	AV			156	319
3	5350	55.93	PK	74	-18.07	237	228
4	5350	43.72	AV	54	-10.28	237	228
5	10600	47.91	PK	74	-26.09	247	345
6	10600	36.31	AV	54	-17.69	247	345
7	15900	43.57	PK	74	-30.43	205	211
8	15900	30.58	AV	54	-23.42	205	211

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5300MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5320.00	95.19	PK			193	108
2	*5320.00	83.28	AV			193	108
3	5350	56.65	PK	74	-17.35	248	130
4	5350	43.74	AV	54	-10.26	248	130
5	10640	47.65	PK	74	-26.35	187	105
6	10640	36.54	AV	54	-17.46	187	105
7	15960	43.34	PK	74	-30.66	125	248
8	15960	30.2	AV	54	-23.8	125	248
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5320.00	98.85	PK			223	6
2	*5320.00	86.37	AV			223	6
3	5350	59.44	PK	74	-14.56	145	122
4	5350	48.61	AV	54	-5.39	145	122
5	10640	48.22	PK	74	-25.78	126	209
6	10640	37.1	AV	54	-16.9	126	209
7	15960	43.16	PK	74	-30.84	174	188
8	15960	31.26	AV	54	-22.74	174	188

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5320MHz: Fundamental frequency.



802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5260.00	99.51	PK			158	178
2	*5260.00	88.34	AV			158	178
3	5350	58.03	PK	74	-15.97	127	312
4	5350	46.31	AV	54	-7.69	127	312
5	10520	49.27	PK	74	-24.73	240	204
6	10520	37.65	AV	54	-16.35	240	204
7	15780	44.72	PK	74	-29.28	230	46
8	15780	41.39	AV	54	-12.61	230	46
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5260.00	96.63	PK			203	212
2	*5260.00	84.58	AV			203	212
3	5350	56.62	PK	74	-17.38	192	265
4	5350	46.93	AV	54	-7.07	192	265
5	10520	48.41	PK	74	-25.59	151	60
6	10520	36.15	AV	54	-17.85	151	60
7	15780	45.16	PK	74	-28.84	208	110
8	15780	34.98	AV	54	-19.02	208	110

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5260MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5300.00	97.8	PK			127	229
2	*5300.00	86.35	AV			127	229
3	5350	56.69	PK	74	-17.31	172	47
4	5350	43.32	AV	54	-10.68	172	47
5	10600	48.37	PK	74	-25.63	187	279
6	10600	36.69	AV	54	-17.31	187	279
7	15900	43.96	PK	74	-30.04	133	349
8	15900	32.51	AV	54	-21.49	133	349
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5300.00	98.7	PK			203	255
2	*5300.00	86.67	AV			203	255
3	5350	56.26	PK	74	-17.74	226	297
4	5350	45.13	AV	54	-8.87	226	297
5	10600	48.46	PK	74	-25.54	114	277
6	10600	36.65	AV	54	-17.35	114	277
7	15900	43.59	PK	74	-30.41	169	331
8	15900	32.73	AV	54	-21.27	169	331

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5300MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5320.00	97.38	PK			214	156
2	*5320.00	86.25	AV			214	156
3	5350	59.18	PK	74	-14.82	234	316
4	5350	47.31	AV	54	-6.69	234	316
5	10640	47.54	PK	74	-26.46	226	74
6	10640	36.81	AV	54	-17.19	226	74
7	15960	43.03	PK	74	-30.97	154	309
8	15960	40.21	AV	54	-13.79	154	309
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5320.00	99.08	PK			233	89
2	*5320.00	87.34	AV			233	89
3	5350	60.85	PK	74	-13.15	200	264
4	5350	49.35	AV	54	-4.65	200	264
5	10640	49.04	PK	74	-24.96	171	9
6	10640	37.31	AV	54	-16.69	171	9
7	15960	42.93	PK	74	-31.07	113	263
8	15960	31.74	AV	54	-22.26	113	263

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5320MHz: Fundamental frequency.



802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5270.00	87.39	PK			141	10
2	*5270.00	75.31	AV			141	10
3	5350	54.78	PK	74	-19.22	127	347
4	5350	42.51	AV	54	-11.49	127	347
5	10540	48.77	PK	74	-25.23	141	262
6	10540	36.28	AV	54	-17.72	141	262
7	15810	44.98	PK	74	-29.02	237	192
8	15810	31.17	AV	54	-22.83	237	192
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5270.00	95.63	PK			134	314
2	*5270.00	84.34	AV			134	314
3	5350	56.19	PK	74	-17.81	205	269
4	5350	43.75	AV	54	-10.25	205	269
5	10540	49.53	PK	74	-24.47	138	20
6	10540	37.24	AV	54	-16.76	138	20
7	15810	45.44	PK	74	-28.56	223	358
8	15810	32.61	AV	54	-21.39	223	358

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5270MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5310.00	95.37	PK			210	235
2	*5310.00	83.27	AV			210	235
3	5350	58.55	PK	74	-15.45	171	9
4	5350	46.31	AV	54	-7.69	171	9
5	10620	46.88	PK	74	-27.12	176	176
6	10620	34.95	AV	54	-19.05	176	176
7	15930	43.59	PK	74	-30.41	196	74
8	15930	32.67	AV	54	-21.33	196	74
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5310.00	97.32	PK			172	221
2	*5310.00	86.14	AV			172	221
3	5350	60.69	PK	74	-13.31	144	243
4	5350	48.26	AV	54	-5.74	144	243
5	10620	47.93	PK	74	-26.07	147	59
6	10620	35.24	AV	54	-18.76	147	59
7	15930	43.05	PK	74	-30.95	216	10
8	15930	30.63	AV	54	-23.37	216	10

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5310MHz: Fundamental frequency.



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5290.00	93.15	PK			239	100
2	*5290.00	81.47	AV			239	100
3	5350	57.21	PK	74	-16.79	160	260
4	5350	45.83	AV	54	-8.17	160	260
5	#10580.00	48.75	PK	74	-25.25	181	325
6	#10580.00	36.97	AV	54	-17.03	181	325
7	15870	44.96	PK	74	-29.04	184	327
8	15870	32.46	AV	54	-21.54	184	327
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5290.00	94.34	PK			194	77
2	*5290.00	82.63	AV			194	77
3	5350	60.3	PK	74	-13.7	199	102
4	5350	48.52	AV	54	-5.48	199	102
5	#10580.00	47.3	PK	74	-26.7	112	57
6	#10580.00	35.62	AV	54	-18.38	112	57
7	15870	45.8	PK	74	-28.2	114	295
8	15870	32.35	AV	54	-21.65	114	295

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5290MHz: Fundamental frequency.



Band 3

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	57.12	PK	74	-16.88	181	343
2	5470	45.62	AV	54	-8.38	181	343
3	*5500.00	91	PK			169	360
4	*5500.00	80.31	AV			169	360
5	11000	48.97	PK	74	-25.03	210	262
6	11000	36.81	AV	54	-17.19	210	262
7	#16500.00	42.71	PK	74	-31.29	207	55
8	#16500.00	30.6	AV	54	-23.4	207	55
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	58.44	PK	74	-15.56	223	294
2	5470	46.32	AV	54	-7.68	223	294
3	*5500.00	96.82	PK			174	196
4	*5500.00	84.5	AV			174	196
5	11000	49.54	PK	74	-24.46	141	245
6	11000	37.52	AV	54	-16.48	141	245
7	#16500.00	42.85	PK	74	-31.15	217	172
8	#16500.00	30.4	AV	54	-23.6	217	172

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	56.57	PK	74	-17.43	208	349
2	5470	44.37	AV	54	-9.63	208	349
3	*5580.00	92.46	PK			234	356
4	*5580.00	80.6	AV			234	356
5	#5725.00	56.09	PK	74	-17.91	230	67
6	11160	48.59	PK	74	-25.41	129	194
7	11160	36.7	AV	54	-17.3	129	194
8	#16740.00	40.26	PK	74	-33.74	224	28
9	#16740.00	28.35	AV	54	-25.65	224	28
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	56.04	PK	74	-17.96	244	332
2	5470	44.47	AV	54	-9.53	244	332
3	*5580.00	97.56	PK			248	170
4	*5580.00	85.64	AV			248	170
5	#5725.00	55.85	PK	74	-18.15	145	158
6	11160	49.04	PK	74	-24.96	178	36
7	11160	38.64	AV	54	-15.36	178	36
8	#16740.00	39.51	PK	74	-34.49	147	33
9	#16740.00	27.63	AV	54	-26.37	147	33

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5700.00	94.3	PK			125	219
2	*5700.00	82.7	AV			125	219
3	#5725.00	61.2	PK	74	-12.8	246	119
4	11400	50.62	PK	74	-23.38	226	346
5	11400	38.73	AV	54	-15.27	226	346
6	#17100.00	43.05	PK	74	-30.95	236	218
7	#17100.00	31.69	AV	54	-22.31	236	218
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5700.00	100.98	PK			222	106
2	*5700.00	88.24	AV			222	106
3	#5725.00	65.63	PK	74	-8.37	139	214
4	11400	50.17	PK	74	-23.83	131	247
5	11400	37.43	AV	54	-16.57	131	247
6	#17100.00	42.16	PK	74	-31.84	164	117
7	#17100.00	30.25	AV	54	-23.75	164	117

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5700MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5720.00	99.15	PK			179	98
2	*5720.00	88.91	AV			179	98
3	11440	52.11	PK	74	-21.89	165	270
4	11440	42.48	AV	54	-11.52	165	270
5	#17160.00	43.14	PK	74	-30.86	174	297
6	#17160.00	33.46	AV	54	-20.54	174	297
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5720.00	101.96	PK			189	284
2	*5720.00	91.25	AV			189	284
3	11440	47.4	PK	74	-26.6	178	4
4	11440	37.49	AV	54	-16.51	178	4
5	#17160.00	43.34	PK	74	-30.66	148	184
6	#17160.00	33.51	AV	54	-20.49	148	184

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5720MHz: Fundamental frequency.
- #: Out of restricted band.



802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	58.24	PK	74	-15.76	173	221
2	5470	47.35	AV	54	-6.65	173	221
3	*5500.00	96.76	PK			147	160
4	*5500.00	84.12	AV			147	160
5	11000	50.23	PK	74	-23.77	131	181
6	11000	38.27	AV	54	-15.73	131	181
7	#16500.00	42.83	PK	74	-31.17	175	133
8	#16500.00	31.62	AV	54	-22.38	175	133

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	56.26	PK	74	-17.74	137	226
2	5470	42.31	AV	54	-11.69	137	226
3	*5500.00	94.46	PK			132	234
4	*5500.00	81.69	AV			132	234
5	11000	48.95	PK	74	-25.05	193	257
6	11000	36.37	AV	54	-17.63	193	257
7	#16500.00	42.89	PK	74	-31.11	132	181
8	#16500.00	40.86	AV	54	-13.14	132	181

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5500MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	56.16	PK	74	-17.84	219	350
2	5470	44.72	AV	54	-9.28	219	350
3	*5580.00	97.94	PK			226	164
4	*5580.00	84.61	AV			226	164
5	#5725.00	56.09	PK	74	-17.91	215	358
6	11160	49.23	PK	74	-24.77	204	196
7	11160	37.31	AV	54	-16.69	204	196
8	#16740.00	40.1	PK	74	-33.9	229	250
9	#16740.00	28.72	AV	54	-25.28	229	250
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	56.05	PK	74	-17.95	130	101
2	5470	44.24	AV	54	-9.76	130	101
3	*5580.00	98.51	PK			218	10
4	*5580.00	86.34	AV			218	10
5	#5725.00	56.28	PK	74	-17.72	199	330
6	11160	50.41	PK	74	-23.59	180	168
7	11160	38.36	AV	54	-15.64	180	168
8	#16740.00	40.22	PK	74	-33.78	201	154
9	#16740.00	29.35	AV	54	-24.65	201	154

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5580MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5700.00	97.27	PK			129	332
2	*5700.00	85.38	AV			129	332
3	#5725.00	63.43	PK	74	-10.57	166	215
4	11400	50.26	PK	74	-23.74	152	105
5	11400	38.34	AV	54	-15.66	152	105
6	#17100.00	42.59	PK	74	-31.41	219	332
7	#17100.00	31.82	AV	54	-22.18	219	332

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5700.00	99.01	PK			126	186
2	*5700.00	87.21	AV			126	186
3	#5725.00	63.17	PK	74	-10.83	228	36
4	11400	49.28	PK	74	-24.72	120	97
5	11400	37.39	AV	54	-16.61	120	97
6	#17100.00	43.36	PK	74	-30.64	241	101
7	#17100.00	32.65	AV	54	-21.35	241	101

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5700MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5720.00	97.91	PK			231	309
2	*5720.00	88.64	AV			231	309
3	11440	52.96	PK	74	-21.04	233	161
4	11440	43.67	AV	54	-10.33	233	161
5	#17160.00	44.41	PK	74	-29.59	131	295
6	#17160.00	35.38	AV	54	-18.62	131	295
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5720.00	101.51	PK			145	348
2	*5720.00	91.53	AV			145	348
3	11440	48.93	PK	74	-25.07	136	50
4	11440	39.53	AV	54	-14.47	136	50
5	#17160.00	42.54	PK	74	-31.46	232	147
6	#17160.00	33.22	AV	54	-20.78	232	147

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5720MHz: Fundamental frequency.
- #: Out of restricted band.



802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	59.32	PK	74	-14.68	243	283
2	5470	47.41	AV	54	-6.59	243	283
3	*5510.00	93.63	PK			139	77
4	*5510.00	80.35	AV			139	77
5	11020	48.96	PK	74	-25.04	174	206
6	11020	36.35	AV	54	-17.65	174	206
7	#16530.00	41.75	PK	74	-32.25	222	270
8	#16530.00	29.97	AV	54	-24.03	222	270
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	58.88	PK	74	-15.12	238	223
2	5470	46.34	AV	54	-7.66	238	223
3	*5510.00	93.58	PK			167	211
4	*5510.00	80.47	AV			167	211
5	11020	49.47	PK	74	-24.53	145	108
6	11020	37.32	AV	54	-16.68	145	108
7	#16530.00	42.53	PK	74	-31.47	171	121
8	#16530.00	29.81	AV	54	-24.19	171	121

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5510MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5550.00	92.61	PK			184	320
2	*5550.00	80.72	AV			184	320
3	#5725.00	55.6	PK	74	-18.4	128	301
4	11100	49.97	PK	74	-24.03	229	266
5	11100	37.36	AV	54	-16.64	229	266
6	#16650.00	40.37	PK	74	-33.63	191	107
7	#16650.00	28.59	AV	54	-25.41	191	107
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5550.00	93.69	PK			118	236
2	*5550.00	82.41	AV			118	236
3	#5725.00	55.3	PK	74	-18.7	205	19
4	11100	48.63	PK	74	-25.37	193	201
5	11100	36.74	AV	54	-17.26	193	201
6	#16650.00	40.03	PK	74	-33.97	205	354
7	#16650.00	28.65	AV	54	-25.35	205	354

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5550MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5670.00	95.29	PK			212	31
2	*5670.00	83.47	AV			212	31
3	#5725.00	57.64	PK	74	-16.36	224	27
4	11340	48.83	PK	74	-25.17	178	138
5	11340	36.29	AV	54	-17.71	178	138
6	#17010.00	40.44	PK	74	-33.56	247	233
7	#17010.00	27.34	AV	54	-26.66	247	233
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5670.00	97.07	PK			185	183
2	*5670.00	84.36	AV			185	183
3	#5725.00	55.49	PK	74	-18.51	205	102
4	11340	48.52	PK	74	-25.48	220	300
5	11340	36.27	AV	54	-17.73	220	300
6	#17010.00	39.71	PK	74	-34.29	151	141
7	#17010.00	26.82	AV	54	-27.18	151	141

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5670MHz: Fundamental frequency.
- #: Out of restricted band.



CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5710.00	95.15	PK			124	354
2	*5710.00	85.7	AV			124	354
3	11420	47.21	PK	74	-26.79	239	271
4	11420	37.21	AV	54	-16.79	239	271
5	#17130.00	42.34	PK	74	-31.66	222	218
6	#17130.00	32.84	AV	54	-21.16	222	218
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5710.00	98.94	PK			155	60
2	*5710.00	89.27	AV			155	60
3	11420	52.47	PK	74	-21.53	224	274
4	11420	43.34	AV	54	-10.66	224	274
5	#17130.00	42.29	PK	74	-31.71	209	177
6	#17130.00	32.86	AV	54	-21.14	209	177

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5710MHz: Fundamental frequency.
- #: Out of restricted band.



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	58.22	PK	74	-15.78	192	268
2	5470	46.31	AV	54	-7.69	192	268
3	*5530.00	89.36	PK			155	331
4	*5530.00	77.49	AV			155	331
5	#5725.00	55.37	PK	74	-18.63	149	84
6	11060	49.62	PK	74	-24.38	181	29
7	11060	37.68	AV	54	-16.32	181	29
8	#16590.00	41.19	PK	74	-32.81	161	310
9	#16590.00	29.72	AV	54	-24.28	161	310

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	58.55	PK	74	-15.45	159	289
2	5470	46.36	AV	54	-7.64	159	289
3	*5530.00	90.84	PK			206	197
4	*5530.00	78.72	AV			206	197
5	#5725.00	55.7	PK	74	-18.3	217	36
6	11060	49.38	PK	74	-24.62	195	151
7	11060	37.56	AV	54	-16.44	195	151
8	#16590.00	41.66	PK	74	-32.34	113	5
9	#16590.00	38.63	AV	54	-15.37	113	5

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5530MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	56.24	PK	74	-17.76	243	51
2	5470	44.63	AV	54	-9.37	243	51
3	*5610.00	91.79	PK			169	348
4	*5610.00	78.34	AV			184	81
5	#5725.00	56.42	PK	74	-17.58	184	81
6	11220	49.26	PK	74	-24.74	219	257
7	11220	37.26	AV	54	-16.74	219	257
8	#16830.00	39.69	PK	74	-34.31	123	185
9	#16830.00	27.83	AV	54	-26.17	123	185

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	5470	57.58	PK	74	-16.42	204	280
2	5470	45.28	AV	54	-8.72	204	280
3	*5610.00	92.36	PK			162	218
4	*5610.00	80.34	AV			223	138
5	#5725.00	55.59	PK	74	-18.41	223	138
6	11220	49.35	PK	74	-24.65	215	124
7	11220	37.26	AV	54	-16.74	215	124
8	#16830.00	40.25	PK	74	-33.75	189	286
9	#16830.00	29.72	AV	54	-24.28	189	286

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5610MHz: Fundamental frequency.
- #: Out of restricted band.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5690.00	93.05	PK			187	282
2	*5690.00	83.92	AV			187	282
3	11380	47.03	PK	74	-26.97	209	199
4	11380	37.82	AV	54	-16.18	209	199
5	#17070.00	43.35	PK	74	-30.65	211	33
6	#17070.00	34.32	AV	54	-19.68	211	33
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5690.00	95.49	PK			237	187
2	*5690.00	85.83	AV			237	187
3	11380	52.38	PK	74	-21.62	166	192
4	11380	43.22	AV	54	-10.78	166	192
5	#17070.00	42.75	PK	74	-31.25	118	108
6	#17070.00	33.24	AV	54	-20.76	118	108

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5690MHz: Fundamental frequency.
- #: Out of restricted band.



Band 4:

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	56.95	PK	74	-17.05	192	151
2	#5700.00	56	PK	74	-18	220	15
3	#5720.00	61.74	PK	74	-12.26	194	313
4	#5725.00	66.11	PK	74	-7.89	121	62
5	*5745.00	95.84	PK			250	295
6	*5745.00	83.31	AV			250	295
7	11490	48.9	PK	74	-25.1	159	176
8	11490	36.25	AV	54	-17.75	159	176
9	#17235.00	40.66	PK	74	-33.34	179	127
10	#17235.00	37.53	AV	54	-16.47	179	127

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	55.88	PK	74	-18.12	213	175
2	#5700.00	56.6	PK	74	-17.4	239	163
3	#5720.00	65.76	PK	74	-8.24	193	318
4	#5725.00	69.19	PK	74	-4.81	170	335
5	*5745.00	99.62	PK			116	124
6	*5745.00	87.64	AV			116	124
7	11490	49.47	PK	74	-24.53	234	29
8	11490	37.62	AV	54	-16.38	234	29
9	#17235.00	40.98	PK	74	-33.02	158	223
10	#17235.00	28.27	AV	54	-25.73	158	223

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	56.42	PK	74	-17.58	237	282
2	#5700.00	55.82	PK	74	-18.18	230	258
3	#5720.00	55.69	PK	74	-18.31	200	154
4	#5725.00	56.28	PK	74	-17.72	208	44
5	*5785.00	96.03	PK			126	125
6	*5785.00	85.34	AV			126	125
7	#5850.00	56.08	PK	74	-17.92	195	309
8	#5855.00	56.99	PK	74	-17.01	195	309
9	#5875.00	56.78	PK	74	-17.22	248	234
10	#5925.00	56.6	PK	74	-17.4	248	234
11	11570	55.59	PK	74	-18.41	124	34
12	11570	43.28	AV	54	-10.72	124	34
13	#17355.00	52.55	PK	74	-21.45	117	225
14	#17355.00	40.26	AV	54	-13.74	117	225



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	55.44	PK	74	-18.56	204	101
2	#5700.00	55.44	PK	74	-18.56	197	41
3	#5720.00	56.09	PK	74	-17.91	243	164
4	#5725.00	56.15	PK	74	-17.85	200	91
5	*5785.00	99.78	PK			120	306
6	*5785.00	88.23	AV			120	306
7	#5850.00	57.67	PK	74	-16.33	190	195
8	#5855.00	58.45	PK	74	-15.55	190	195
9	#5875.00	57.59	PK	74	-16.41	233	120
10	#5925.00	57.15	PK	74	-16.85	233	120
11	11570	49.52	PK	74	-24.48	206	10
12	11570	38.34	AV	54	-15.66	206	10
13	#17355.00	40.99	PK	74	-33.01	232	7
14	#17355.00	28.61	AV	54	-25.39	232	7

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5825.00	95.61	PK			249	126
2	*5825.00	83.37	AV			249	126
3	#5850.00	61.68	PK	74	-12.32	146	114
4	#5855.00	57.59	PK	74	-16.41	158	84
5	#5875.00	56.57	PK	74	-17.43	177	326
6	#5925.00	56.92	PK	74	-17.08	204	348
7	11650	48.19	PK	74	-25.81	238	296
8	11650	37.23	AV	54	-16.77	238	296
9	#17475.00	41.04	PK	74	-32.96	202	138
10	#17475.00	28.9	AV	54	-25.1	202	138
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5825.00	99.62	PK			210	36
2	*5825.00	87.54	AV			210	36
3	#5850.00	63.17	PK	74	-10.83	127	342
4	#5855.00	58.12	PK	74	-15.88	231	248
5	#5875.00	56.83	PK	74	-17.17	188	286
6	#5925.00	57.02	PK	74	-16.98	170	309
7	11650	48.61	PK	74	-25.39	161	243
8	11650	36.43	AV	54	-17.57	161	243
9	#17475.00	40.96	PK	74	-33.04	215	184
10	#17475.00	28.91	AV	54	-25.09	215	184

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.



802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	56.74	PK	74	-17.26	249	336
2	#5700.00	56.2	PK	74	-17.8	243	153
3	#5720.00	64.43	PK	74	-9.57	192	246
4	#5725.00	70.45	PK	74	-3.55	197	131
5	*5745.00	98.62	PK			229	8
6	*5745.00	86.34	AV			229	8
7	11490	49.45	PK	74	-24.55	197	90
8	11490	36.13	AV	54	-17.87	197	90
9	#17235.00	41.16	PK	74	-32.84	245	248
10	#17235.00	29.26	AV	54	-24.74	245	248
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	55.43	PK	74	-18.57	166	256
2	#5700.00	56.41	PK	74	-17.59	236	164
3	#5720.00	64.23	PK	74	-9.77	193	264
4	#5725.00	69.43	PK	74	-4.57	245	103
5	*5745.00	98.01	PK			118	138
6	*5745.00	87.64	AV			118	138
7	11490	49.23	PK	74	-24.77	112	166
8	11490	37.58	AV	54	-16.42	112	166
9	#17235.00	41.59	PK	74	-32.41	200	147
10	#17235.00	30.27	AV	54	-23.73	200	147

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5745MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	56.06	PK	74	-17.94	235	40
2	#5700.00	55.46	PK	74	-18.54	225	140
3	#5720.00	55.46	PK	74	-18.54	240	330
4	#5725.00	55.87	PK	74	-18.13	117	101
5	*5785.00	96.49	PK			246	4
6	*5785.00	84.36	AV			246	4
7	#5850.00	56.39	PK	74	-17.61	153	229
8	#5855.00	56.99	PK	74	-17.01	153	229
9	#5875.00	56.36	PK	74	-17.64	112	337
10	#5925.00	56.2	PK	74	-17.8	112	337
11	11570	48.87	PK	74	-25.13	151	247
12	11570	37.24	AV	54	-16.76	151	247
13	#17355.00	41.66	PK	74	-32.34	150	10
14	#17355.00	30.69	AV	54	-23.31	150	10



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	52.47	PK	74	-21.53	153	129
2	#5700.00	53.64	PK	74	-20.36	218	148
3	#5720.00	54.37	PK	74	-19.63	133	49
4	#5725.00	52.92	PK	74	-21.08	113	54
5	*5785.00	90.68	PK			250	280
6	*5785.00	78.34	AV			250	280
7	#5850.00	54.08	PK	74	-19.92	234	191
8	#5855.00	54.59	PK	74	-19.41	234	191
9	#5875.00	53.62	PK	74	-20.38	224	314
10	#5925.00	54.06	PK	74	-19.94	224	314
11	11570	48.13	PK	74	-25.87	119	124
12	11570	36.71	AV	54	-17.29	119	124
13	#17355.00	40.49	PK	74	-33.51	137	195
14	#17355.00	28.25	AV	54	-25.75	137	195

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5785MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5825.00	96.87	PK			121	282
2	*5825.00	84.39	AV			121	282
3	#5850.00	62.26	PK	74	-11.74	249	180
4	#5855.00	58.16	PK	74	-15.84	135	26
5	#5875.00	56.24	PK	74	-17.76	168	180
6	#5925.00	56.82	PK	74	-17.18	204	323
7	11650	47.8	PK	74	-26.2	139	72
8	11650	36.21	AV	54	-17.79	139	72
9	#17475.00	40.68	PK	74	-33.32	230	334
10	#17475.00	28.92	AV	54	-25.08	230	334
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5825.00	97.96	PK			213	289
2	*5825.00	85.26	AV			213	289
3	#5850.00	64.21	PK	74	-9.79	232	303
4	#5855.00	58.73	PK	74	-15.27	211	276
5	#5875.00	56.85	PK	74	-17.15	244	126
6	#5925.00	56.19	PK	74	-17.81	227	1
7	11650	47.88	PK	74	-26.12	223	297
8	11650	35.48	AV	54	-18.52	223	297
9	#17475.00	41.51	PK	74	-32.49	124	133
10	#17475.00	30.41	AV	54	-23.59	124	133

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.



802.11n (40MHz)

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	56.54	PK	74	-17.46	143	337
2	#5700.00	56.56	PK	74	-17.44	110	211
3	#5720.00	63.15	PK	74	-10.85	213	134
4	#5725.00	64.62	PK	74	-9.38	153	210
5	*5755.00	93.3	PK			195	193
6	*5755.00	81.74	AV			195	193
7	11510	49.42	PK	74	-24.58	111	80
8	11510	36.34	AV	54	-17.66	111	80
9	#17265.00	41.99	PK	74	-32.01	141	247
10	#17265.00	28.84	AV	54	-25.16	141	247
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	55.84	PK	74	-18.16	223	278
2	#5700.00	54.72	PK	74	-19.28	237	252
3	#5720.00	61.28	PK	74	-12.72	166	275
4	#5725.00	65.24	PK	74	-8.76	124	100
5	*5755.00	93.46	PK			215	225
6	*5755.00	81.72	AV			215	225
7	11510	48.99	PK	74	-25.01	173	64
8	11510	36.67	AV	54	-17.33	173	64
9	#17265.00	41.21	PK	74	-32.79	243	5
10	#17265.00	29.51	AV	54	-24.49	243	5



Test Report No.: RF200324W001-3

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5795.00	93.84	PK			113	345
2	*5795.00	81.46	AV			113	345
3	#5850.00	55.88	PK	74	-18.12	198	207
4	#5855.00	55.92	PK	74	-18.08	191	234
5	#5875.00	56.66	PK	74	-17.34	164	112
6	#5925.00	56.24	PK	74	-17.76	141	101
7	11590	49.03	PK	74	-24.97	140	269
8	11590	37.48	AV	54	-16.52	140	269
9	#17385.00	41.04	PK	74	-32.96	116	205
10	#17385.00	29.37	AV	54	-24.63	116	205
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	*5795.00	94.13	PK			188	32
2	*5795.00	82.35	AV			188	32
3	#5850.00	56.49	PK	74	-17.51	218	213
4	#5855.00	56.66	PK	74	-17.34	195	204
5	#5875.00	57.15	PK	74	-16.85	115	111
6	#5925.00	57.26	PK	74	-16.74	223	335
7	11590	48.76	PK	74	-25.24	239	7
8	11590	35.68	AV	54	-18.32	239	7
9	#17385.00	40.19	PK	74	-33.81	137	158
10	#17385.00	28.65	AV	54	-25.35	137	158



Test Report No.: RF200324W001-3

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5795MHz: Fundamental frequency.



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	56.05	PK	74	-17.95	188	189
2	#5700.00	57.64	PK	74	-16.36	142	206
3	#5720.00	59.28	PK	74	-14.72	116	123
4	#5725.00	61.98	PK	74	-12.02	213	240
5	*5775.00	92.2	PK			184	247
6	*5775.00	80.25	AV			184	247
7	#5850.00	57.26	PK	74	-16.74	217	108
8	#5855.00	56.83	PK	74	-17.17	170	134
9	#5875.00	56.76	PK	74	-17.24	204	281
10	#5950.00	56.45	PK	74	-17.55	163	337
11	11550	48.94	PK	74	-25.06	153	200
12	11550	36.77	AV	54	-17.23	153	200
13	#17325.00	40.67	PK	74	-33.33	241	169
14	#17325.00	28.62	AV	54	-25.38	241	169



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	DETECTOR(PK/AV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)
1	#5650.00	56.12	PK	74	-17.88	188	78
2	#5700.00	57.51	PK	74	-16.49	136	309
3	#5720.00	58.93	PK	74	-15.07	123	173
4	#5725.00	60.43	PK	74	-13.57	116	226
5	*5775.00	92.85	PK			161	114
6	*5775.00	81.37	AV			161	114
7	#5850.00	58.31	PK	74	-15.69	133	39
8	#5855.00	57.63	PK	74	-16.37	124	222
9	#5875.00	56.53	PK	74	-17.47	168	17
10	#5950.00	57.38	PK	74	-16.62	134	123
11	11550	49.62	PK	74	-24.38	139	217
12	11550	37.76	AV	54	-16.24	139	217
13	#17325.00	43.28	PK	74	-30.72	235	125
14	#17325.00	32.91	AV	54	-21.09	235	125

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5775MHz: Fundamental frequency.

Note: Radiated Emission AND BANDEDGE Measurement Test was performed by **Lab B**.



3.2 OUT OF BAND EMISSION MEASUREMENT

3.2.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

OUT OF THE RESTRICTED BANDS	APPLICABLE TO	EIRP LIMIT (dBm/MHz)
	15.407(b)(1)	-27
	15.407(b)(2)	
	15.407(b)(3)	
	15.407(b)(4)	See note

NOTE:

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 24,19	Jun. 23,20
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Jun. 24,19	Jun. 23,20

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF OVEN ROOM.
3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

3.2.3 TEST PROCEDURES

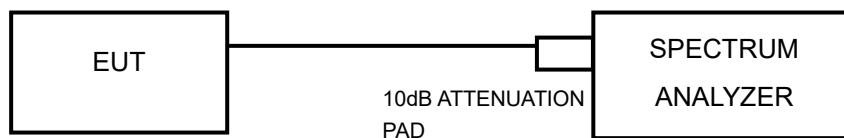
- a. Check the calibration of the measurement instrument using either an internal calibrator or a known signal from an external generator.
- b. The resolution bandwidth is set to 1MHzThe Video bandwidth is set to ≥ 1 MHz, report the peak value out of operating band.
- c. Repeat above procedures until all frequencies measured wre complete.

NOTE: All modes of operation were investigated and the worst-case emissions are reported,antenna gain was added into the test result.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



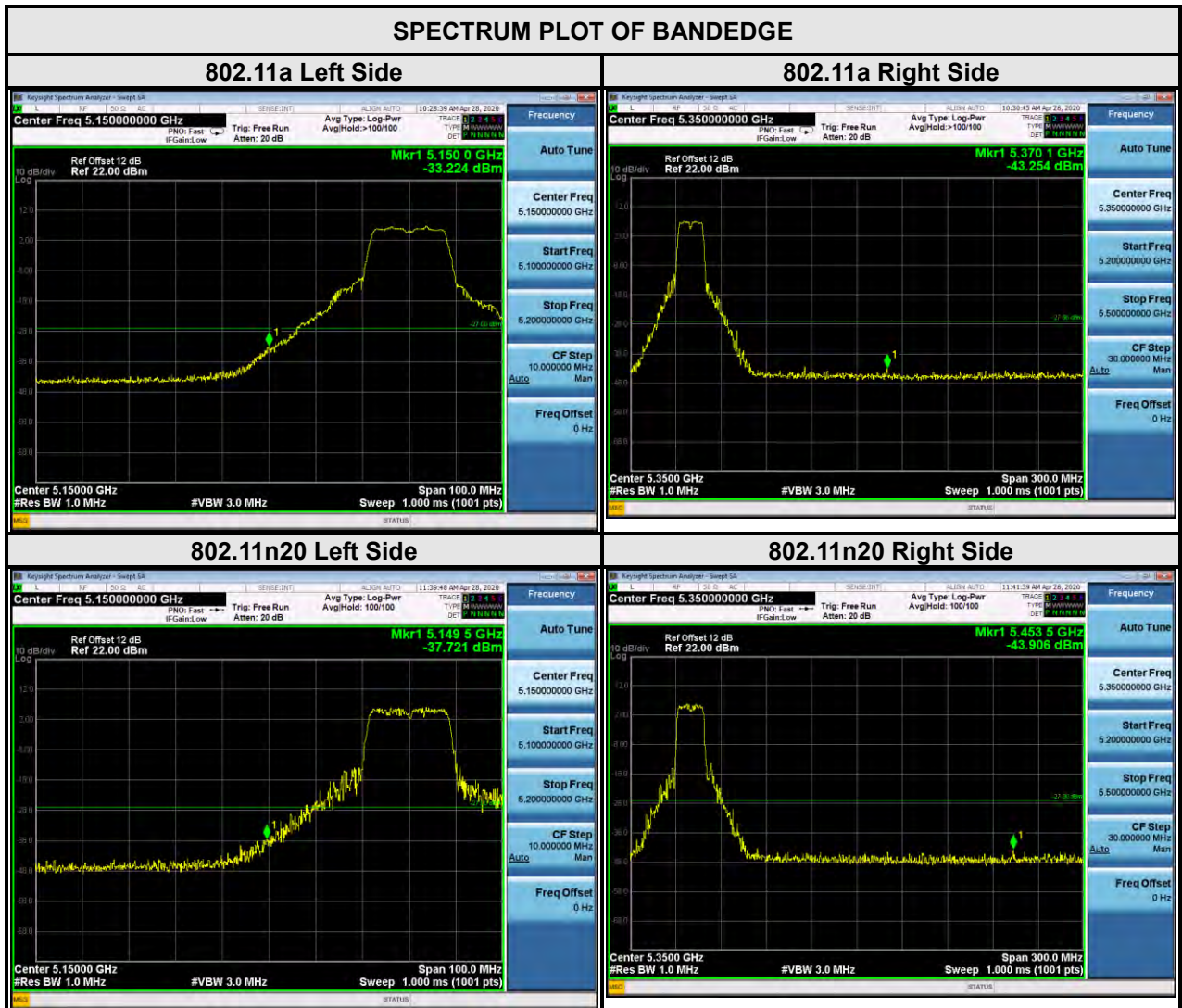
3.2.6 EUT OPERATING CONDITION

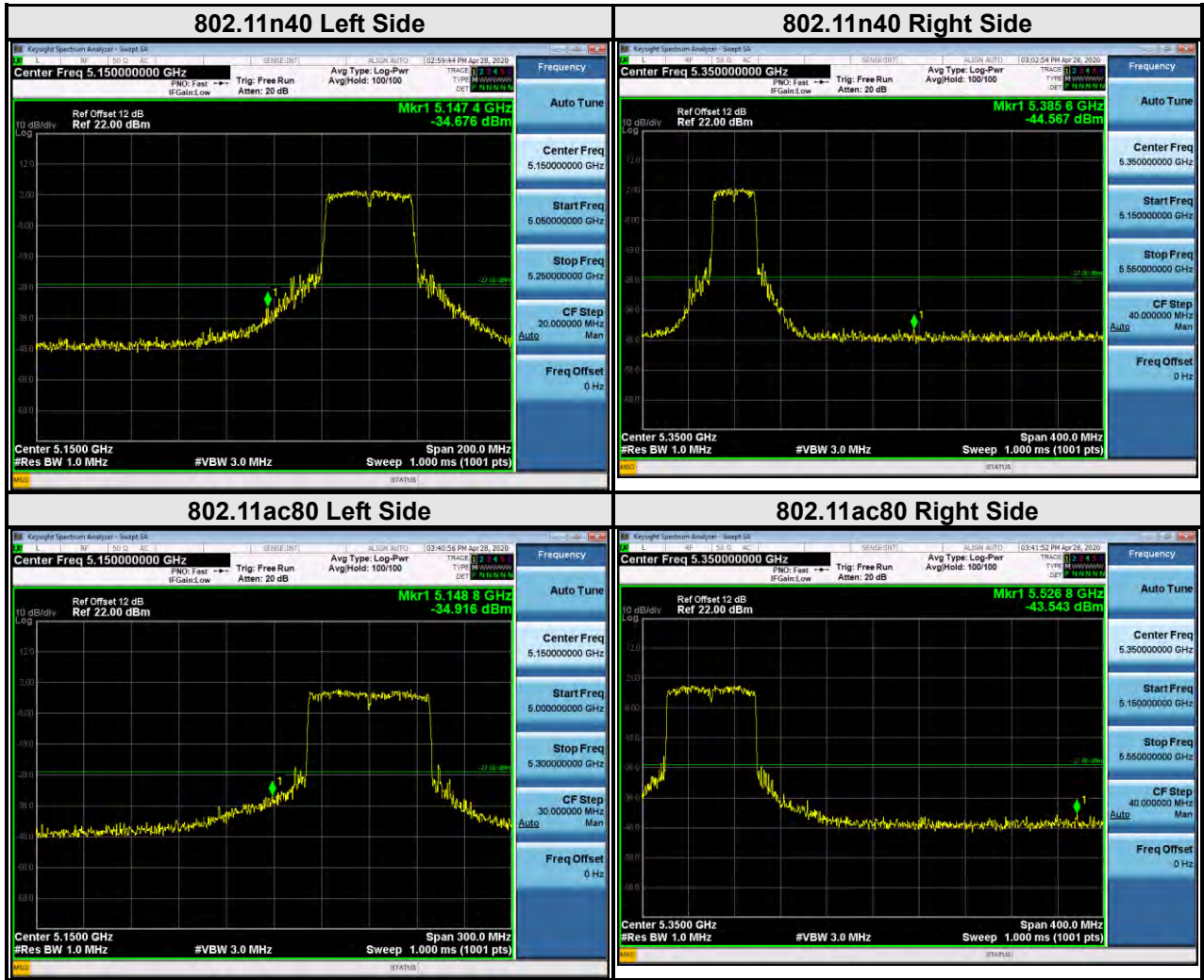
- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.



3.2.7 TEST RESULTS

For U-NII-1:



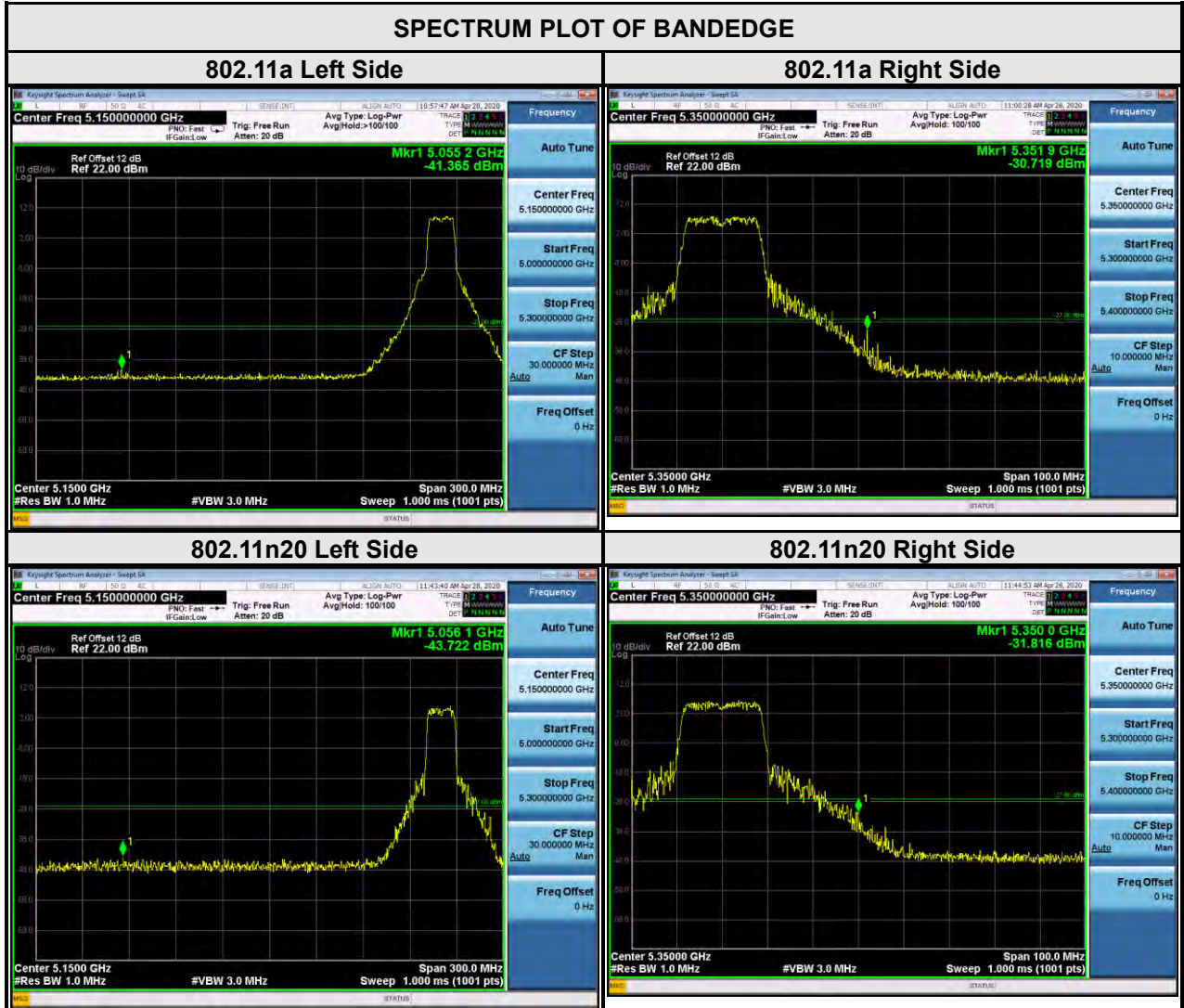


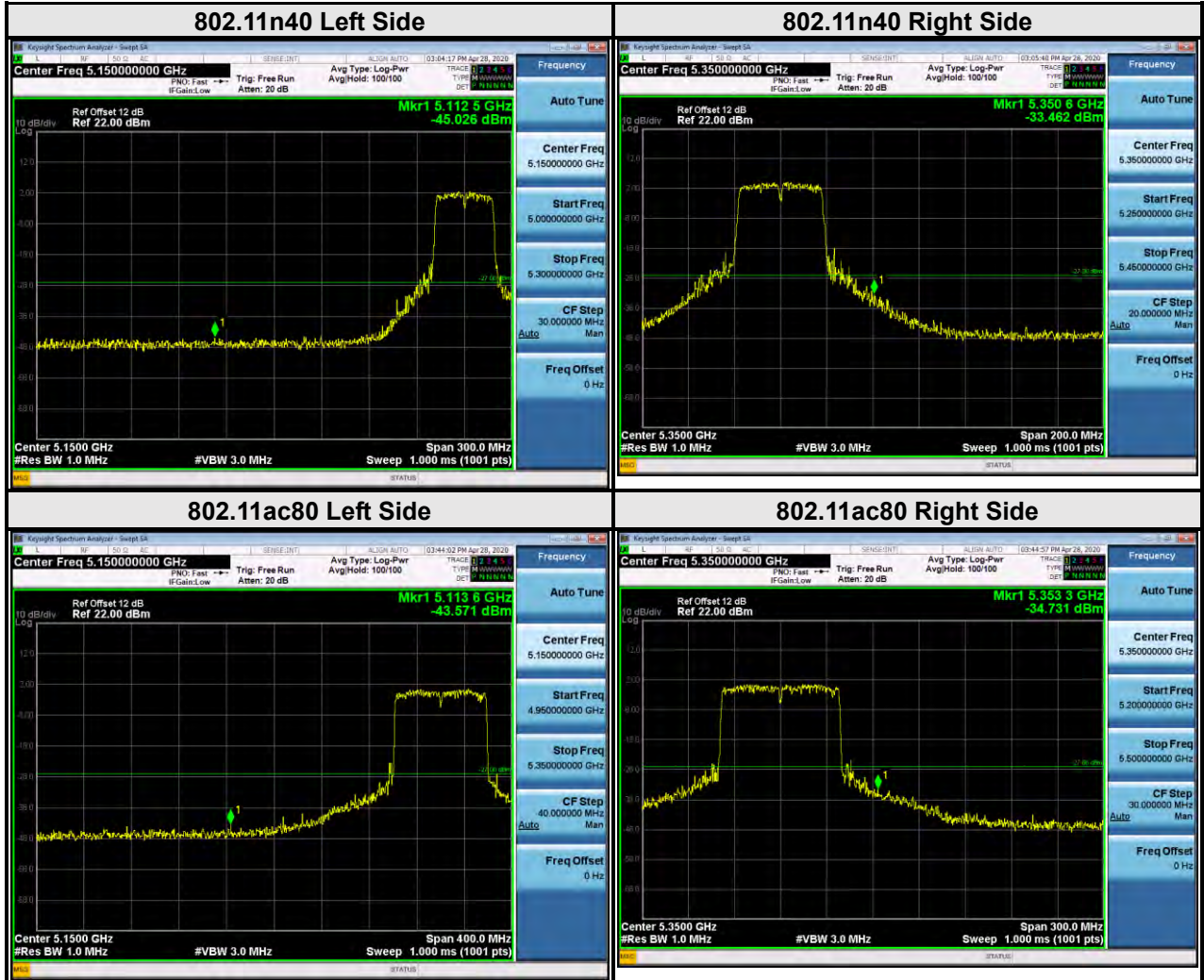


BUREAU VERITAS

Test Report No.: RF200324W001-3

For U-NII-2A:





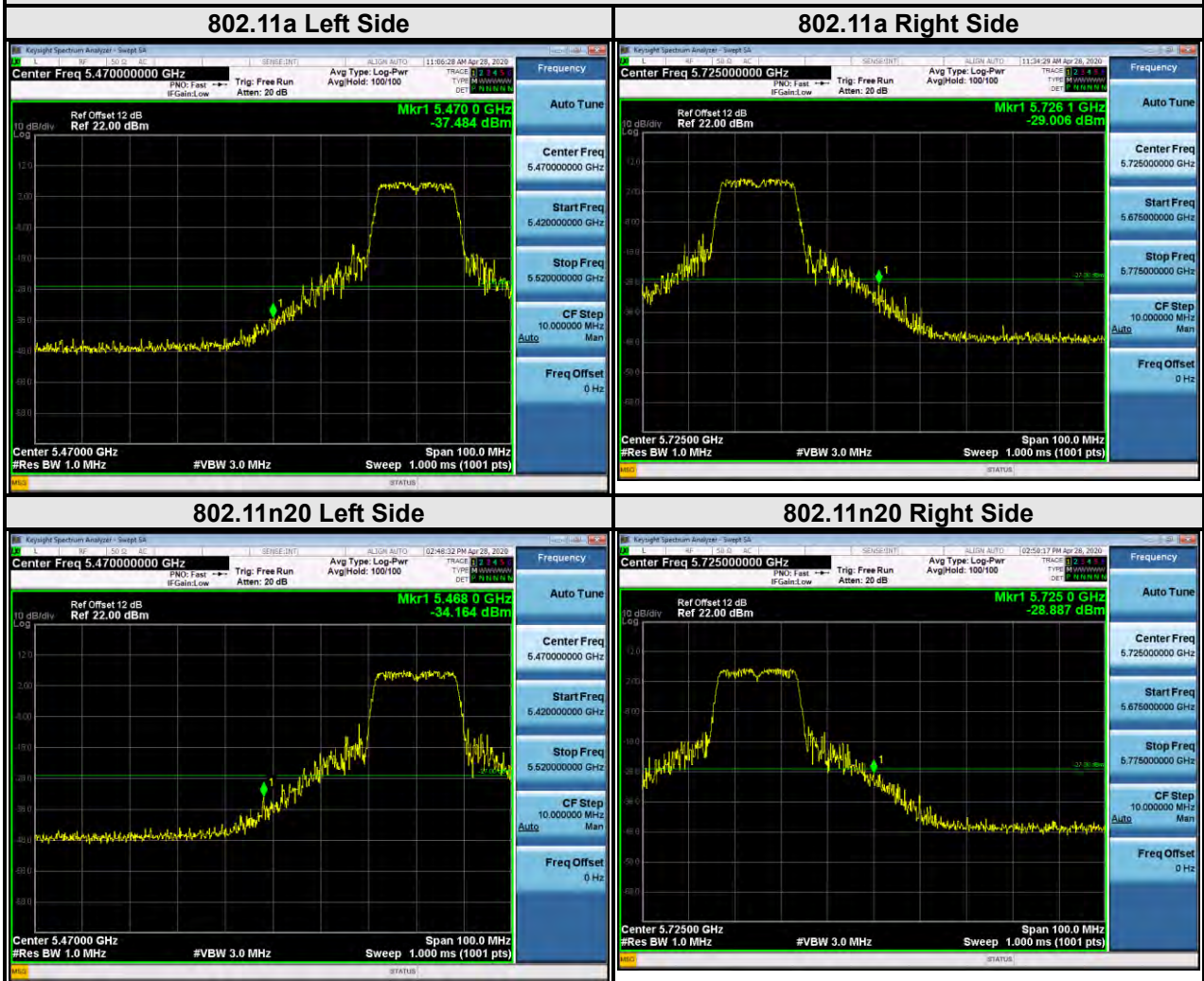


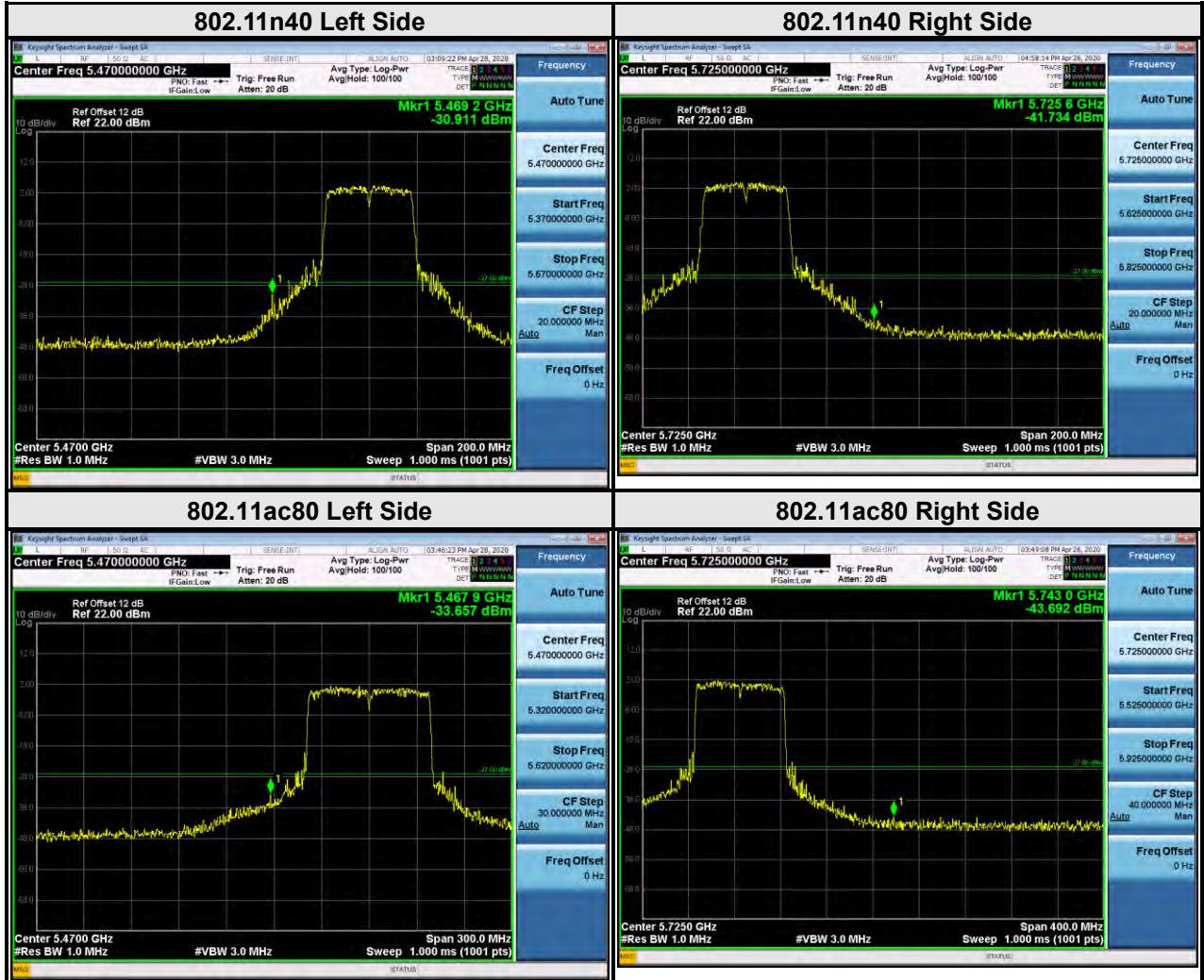
BUREAU VERITAS

Test Report No.: RF200324W001-3

For U-NII-2C:

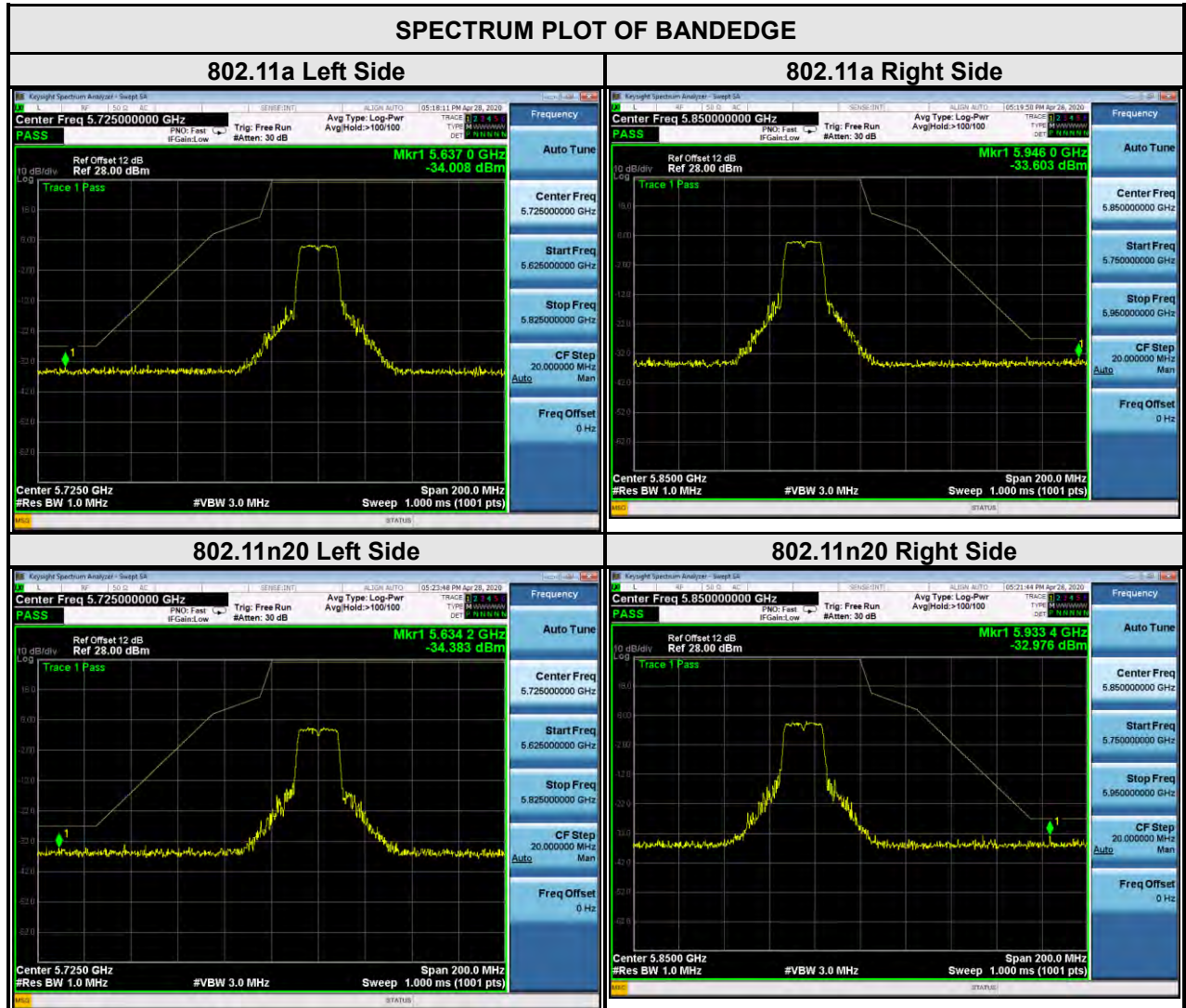
SPECTRUM PLOT OF BANDEDGE

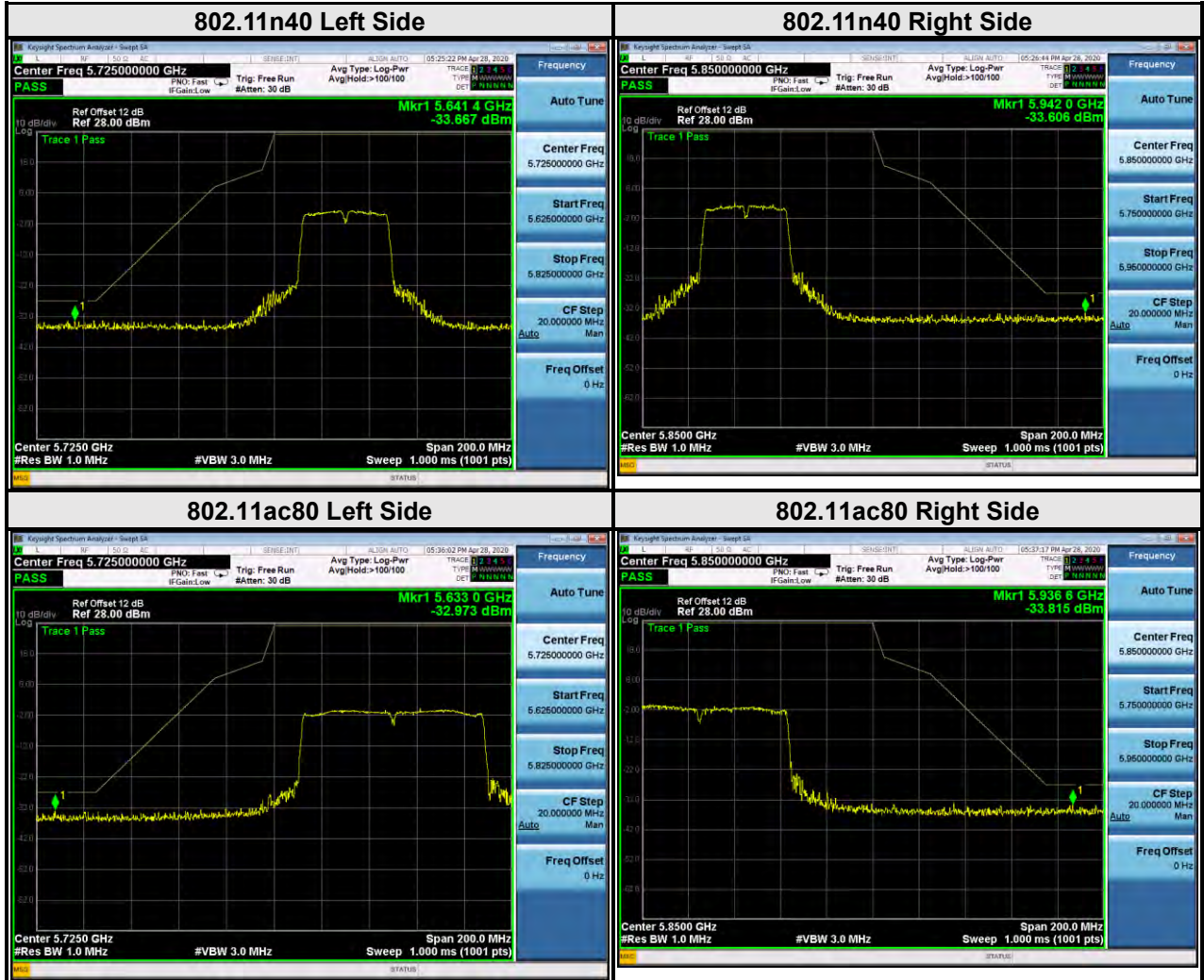






For U-NII-3:





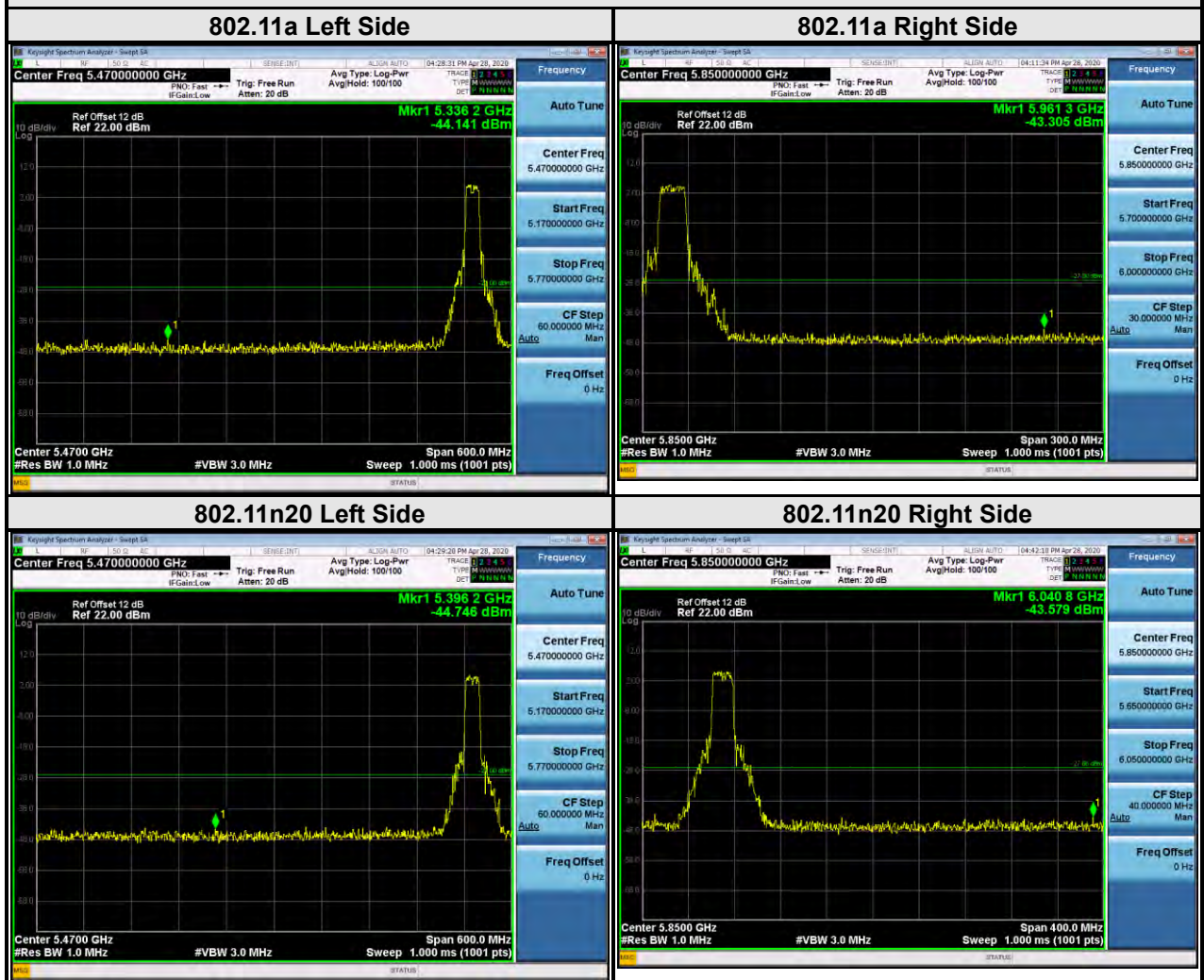


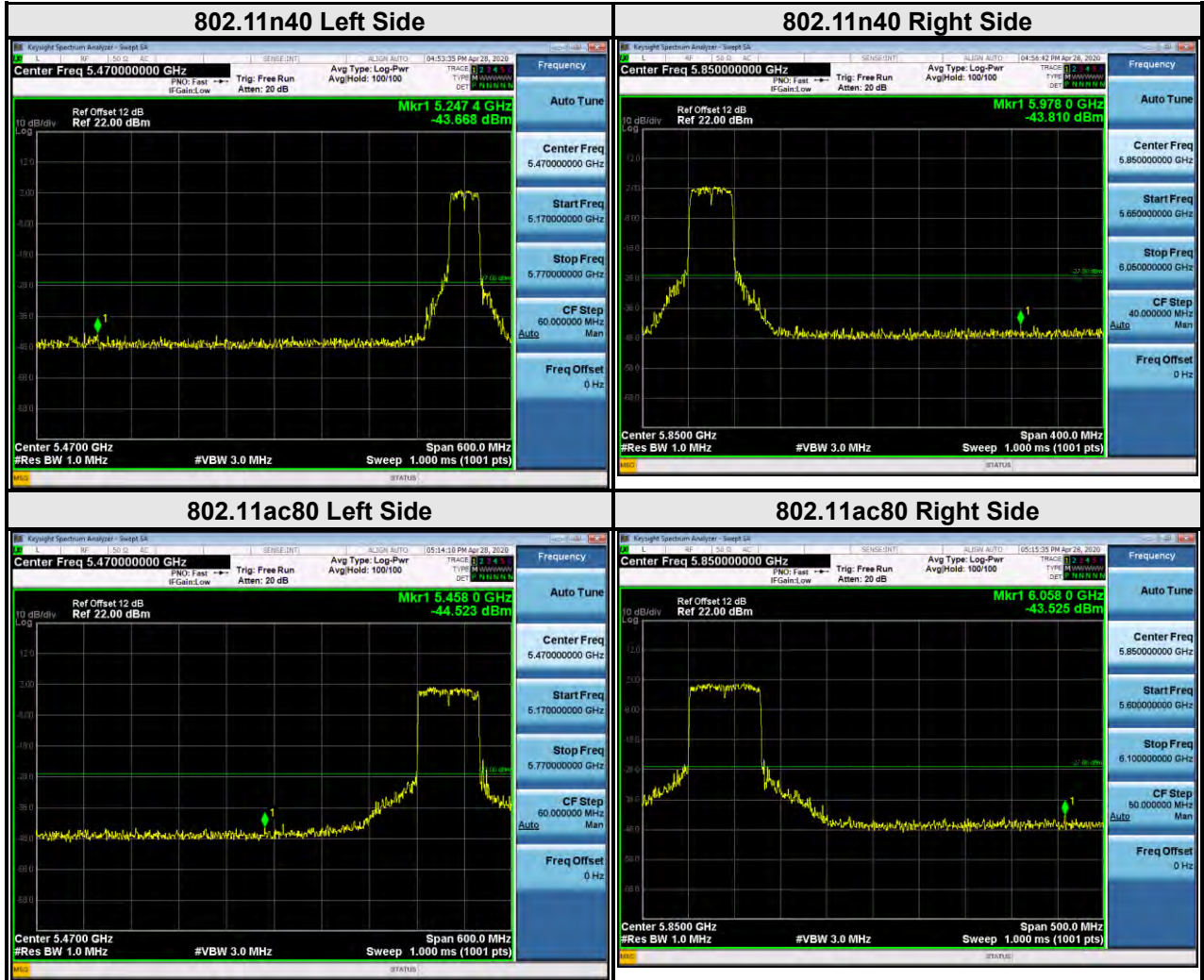
BUREAU VERITAS

Test Report No.: RF200324W001-3

For 144, 142, 138

SPECTRUM PLOT OF BANDEDGE





3.3 CONDUCTED EMISSION MEASUREMENT

3.3.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	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.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 28,20	Feb. 27,21
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 28,20	Feb. 27,21

NOTE:

1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.3.3 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.

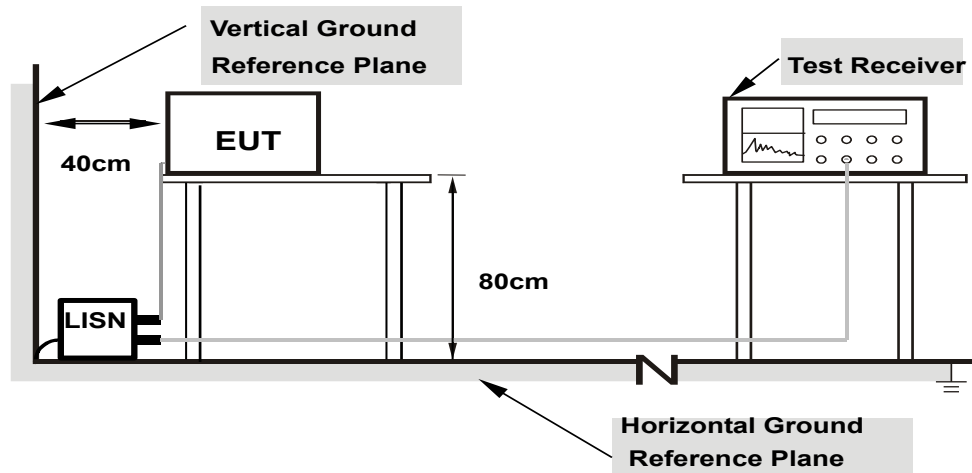
NOTE: All modes of operation were investigated and the worst-case emissions are reported.



3.3.4 DEVIATION FROM TEST STANDARD

No deviation.

3.3.5 TEST SETUP



- Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes**

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

3.3.6 EUT OPERATING CONDITIONS

Same as 3.1.6.



3.3.7 TEST RESULTS

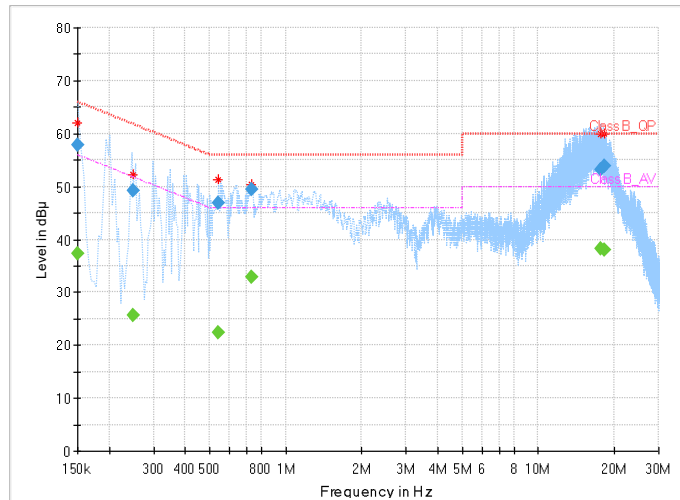
CONDUCTED WORST-CASE DATA :

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23deg. C, 55RH
Tested By	Chase Zhou		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	37.40	56.00	-18.60	L1	ON	9.7
0.150000	57.91	---	66.00	-8.09	L1	ON	9.7
0.248000	---	25.60	51.82	-26.22	L1	ON	9.7
0.248000	49.25	---	61.82	-12.58	L1	ON	9.7
0.540000	---	22.42	46.00	-23.58	L1	ON	9.7
0.540000	46.82	---	56.00	-9.18	L1	ON	9.7
0.736000	---	32.92	46.00	-13.08	L1	ON	9.7
0.736000	49.40	---	56.00	-6.60	L1	ON	9.7
17.596000	---	38.14	50.00	-11.86	L1	ON	10.0
17.596000	53.20	---	60.00	-6.80	L1	ON	10.0
18.188000	---	37.91	50.00	-12.09	L1	ON	10.0
18.188000	53.84	---	60.00	-6.16	L1	ON	10.0

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



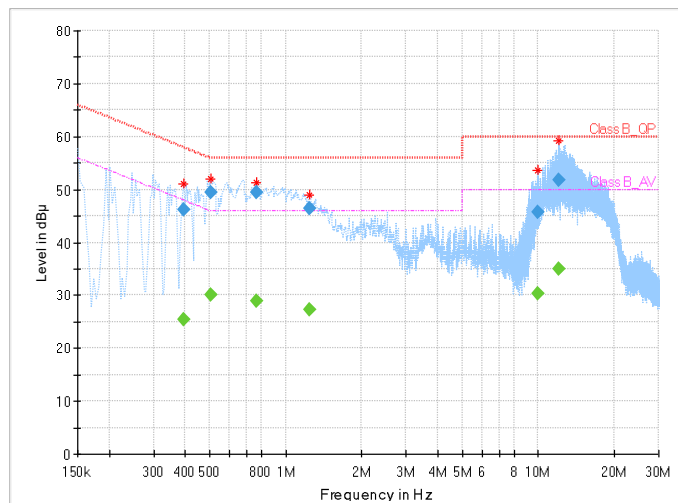


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23deg. C, 55RH
Tested By	Chase Zhou		

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.396000	---	25.37	47.94	-22.57	N	ON	9.8
0.396000	46.18	---	57.94	-11.76	N	ON	9.8
0.508000	---	30.00	46.00	-16.00	N	ON	9.8
0.508000	49.49	---	56.00	-6.51	N	ON	9.8
0.768000	---	28.99	46.00	-17.01	N	ON	9.8
0.768000	49.39	---	56.00	-6.61	N	ON	9.8
1.244000	---	27.37	46.00	-18.63	N	ON	9.8
1.244000	46.43	---	56.00	-9.57	N	ON	9.8
9.964000	---	30.38	50.00	-19.62	N	ON	10.0
9.964000	45.65	---	60.00	-14.35	N	ON	10.0
12.084000	---	34.89	50.00	-15.11	N	ON	10.0
12.084000	51.75	---	60.00	-8.25	N	ON	10.0

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum





3.4 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.4.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

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

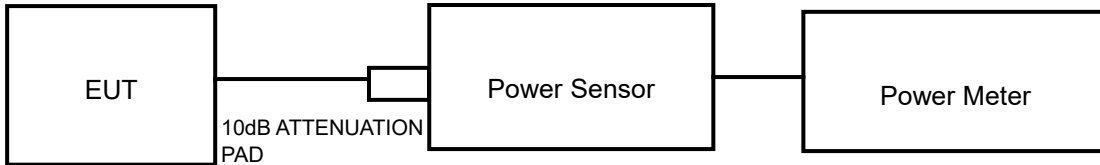
NOTE: Where B is the 26dB emission bandwidth in MHz.



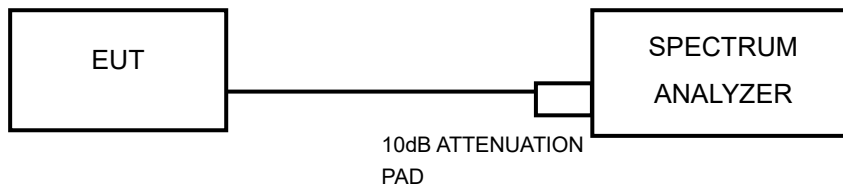
3.4.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

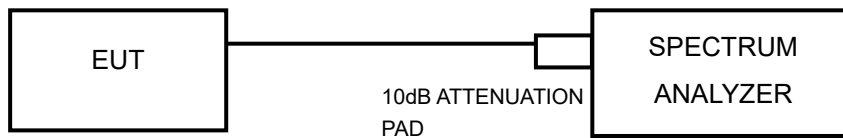
802.11a, 802.11n (20MHz), 802.11n (40MHz) TEST CONFIGURATION



11ac TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.4.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 28,20	Feb. 27,21
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 28,20	Feb. 27,21
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Feb. 28,20	Feb. 27,21
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 28,20	Feb. 27,21

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.

3.4.4 TEST PROCEDURE

FOR POWER MEASUREMENT

For 802.11a, 802.11n (20MHz), 802.11n (40MHz)

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 (80MHz)

1. Measure the duty cycle, x , of the transmitter output signal as described in II.B.
2. Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
3. Set RBW = 1 MHz.
4. Set VBW \geq 3 MHz.
5. Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
10. Add $10 \log (1/x)$, where x is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \log (1/0.25) = 6 \text{ dB}$ if the duty cycle is 25%.



FOR 99 PERCENT OCCUPIED BANDWIDTH

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

FOR 26dB BANDWIDTH

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

FOR 6dB BANDWIDTH

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



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3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



3.4.7 TEST RESULTS

OUTPUT POWER:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	14.91	0	14.91	30.97	24	PASS
40	5200	14.86	0	14.86	30.62	24	PASS
48	5240	14.98	0	14.98	31.48	24	PASS
52	5260	14.83	0	14.83	30.41	24	PASS
60	5300	14.56	0	14.56	28.58	24	PASS
64	5320	14.71	0	14.71	29.58	24	PASS
100	5500	14.33	0	14.33	27.10	24	PASS
116	5580	14.95	0	14.95	31.26	24	PASS
140	5700	14.96	0	14.96	31.33	24	PASS
144	5720	14.85	0	14.85	30.55	24	PASS
144	5720	14.85	0	14.85	30.55	30	PASS
149	5745	14.79	0	14.79	30.13	30	PASS
157	5785	14.86	0	14.86	30.62	30	PASS
165	5825	14.82	0	14.82	30.34	30	PASS



802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	14.75	0	14.75	29.85	24	PASS
40	5200	14.72	0	14.72	29.65	24	PASS
48	5240	14.85	0	14.85	30.55	24	PASS
52	5260	14.96	0	14.96	31.33	24	PASS
60	5300	14.95	0	14.95	31.26	24	PASS
64	5320	14.48	0	14.48	28.05	24	PASS
100	5500	14.66	0	14.66	29.24	24	PASS
116	5580	14.98	0	14.98	31.48	24	PASS
140	5700	14.88	0	14.88	30.76	24	PASS
144	5720	14.31	0	14.31	26.98	24	PASS
144	5720	14.31	0	14.31	26.98	30	PASS
149	5745	14.68	0	14.68	29.38	30	PASS
157	5785	14.95	0	14.95	31.26	30	PASS
165	5825	14.88	0	14.88	30.76	30	PASS



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
38	5190	14.95	0	14.95	31.26	24	PASS
46	5230	14.52	0	14.52	28.31	24	PASS
54	5270	14.56	0	14.56	28.58	24	PASS
62	5310	14.98	0	14.98	31.48	24	PASS
102	5510	14.95	0	14.95	31.26	24	PASS
110	5550	14.79	0	14.79	30.13	24	PASS
134	5670	14.32	0	14.32	27.04	24	PASS
142	5710	14.97	0	14.97	31.41	24	PASS
142	5710	14.97	0	14.97	31.41	30	PASS
151	5755	14.31	0	14.31	26.98	30	PASS
159	5798	14.84	0	14.84	30.48	30	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
42	5210	14.57	0	14.57	28.64	24	PASS
58	5290	14.97	0	14.97	31.41	24	PASS
106	5530	14.71	0	14.71	29.58	24	PASS
122	5610	14.95	0	14.95	31.26	24	PASS
138	5690	14.87	0	14.87	30.69	24	PASS
138	5690	14.87	0	14.87	30.69	30	PASS
155	5775	14.61	0	14.61	28.91	30	PASS



99% OCCUPIED BANDWIDTH & 26dB BANDWIDTH/6dB BANDWIDTH DATA FROM:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
36	5180	16.92	28.35	PASS
40	5200	16.98	27.73	PASS
48	5240	16.86	27.00	PASS
52	5260	16.86	30.09	PASS
60	5300	16.92	29.41	PASS
64	5320	16.92	28.75	PASS
100	5500	16.86	28.51	PASS
116	5580	16.92	28.69	PASS
140	5700	16.86	29.44	PASS
144	5720	16.92	28.28	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
144	5720	16.92	16.36	PASS
149	5745	16.86	16.35	PASS
157	5785	16.86	16.35	PASS
165	5825	16.86	16.35	PASS



802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
36	5180	17.82	29.71	PASS
40	5200	17.82	26.54	PASS
48	5240	17.76	29.53	PASS
52	5260	17.82	31.75	PASS
60	5300	17.70	30.39	PASS
64	5320	17.82	30.07	PASS
100	5500	17.82	28.30	PASS
116	5580	17.88	29.39	PASS
140	5700	17.76	31.04	PASS
144	5720	17.82	31.11	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
144	5720	17.82	17.57	PASS
149	5745	17.82	17.56	PASS
157	5785	17.88	17.59	PASS
165	5825	17.82	17.54	PASS



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
38	5190	36.3	49.45	PASS
46	5230	36.24	52.55	PASS
54	5270	36.36	51.99	PASS
62	5310	36.24	47.66	PASS
102	5510	36.30	45.77	PASS
110	5550	36.24	45.31	PASS
134	5670	36.24	53.04	PASS
142	5710	36.24	49.76	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
142	5710	36.24	35.80	PASS
151	5755	36.24	36.06	PASS
159	5795	36.24	35.82	PASS

802.11ac (80MHz)

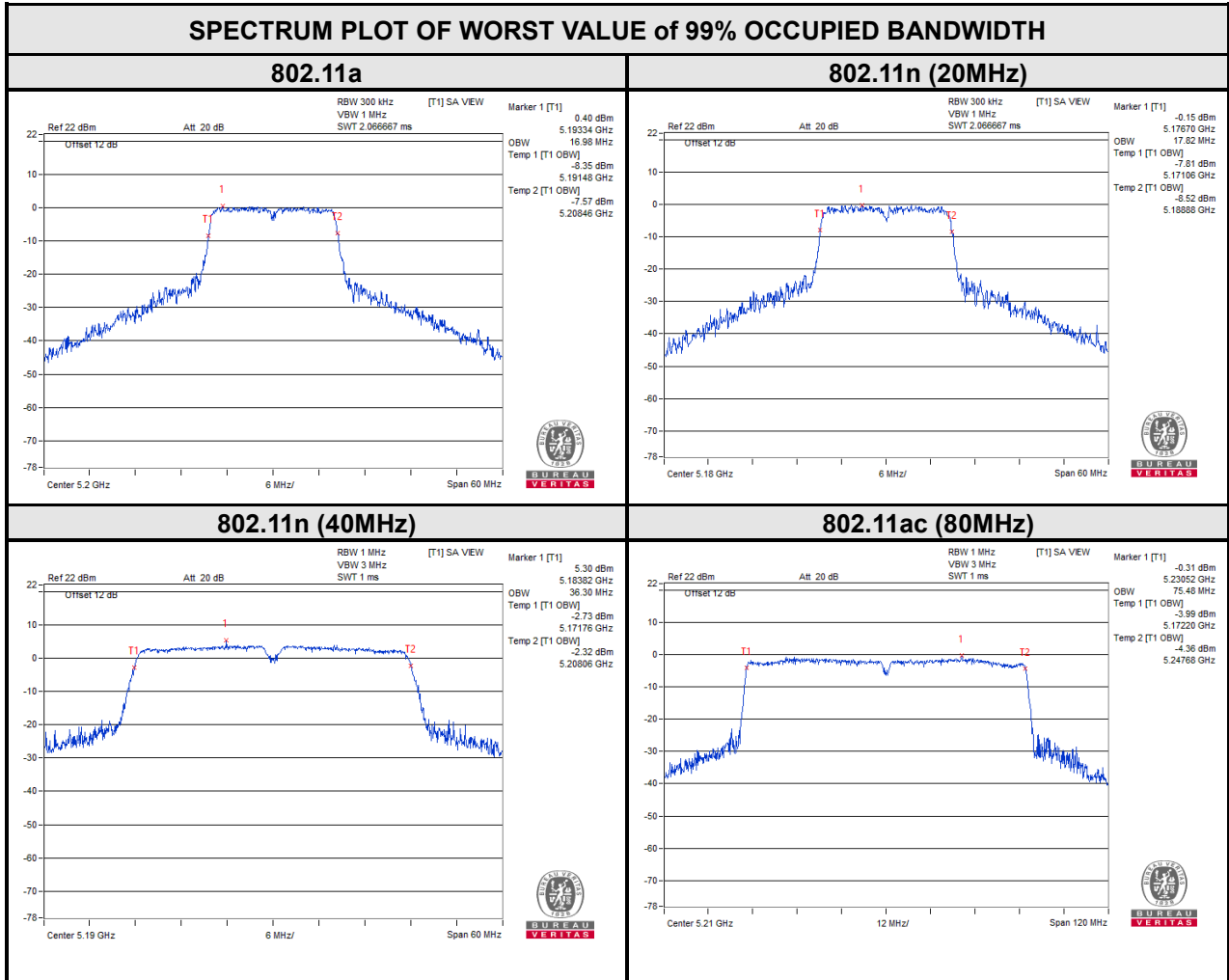
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
42	5210	75.48	91.25	PASS
58	5290	75.60	87.22	PASS
106	5530	75.48	91.79	PASS
122	5610	75.36	90.06	PASS
138	5690	75.48	84.31	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
138	5690	75.48	75.88	PASS
155	5775	75.48	75.69	PASS

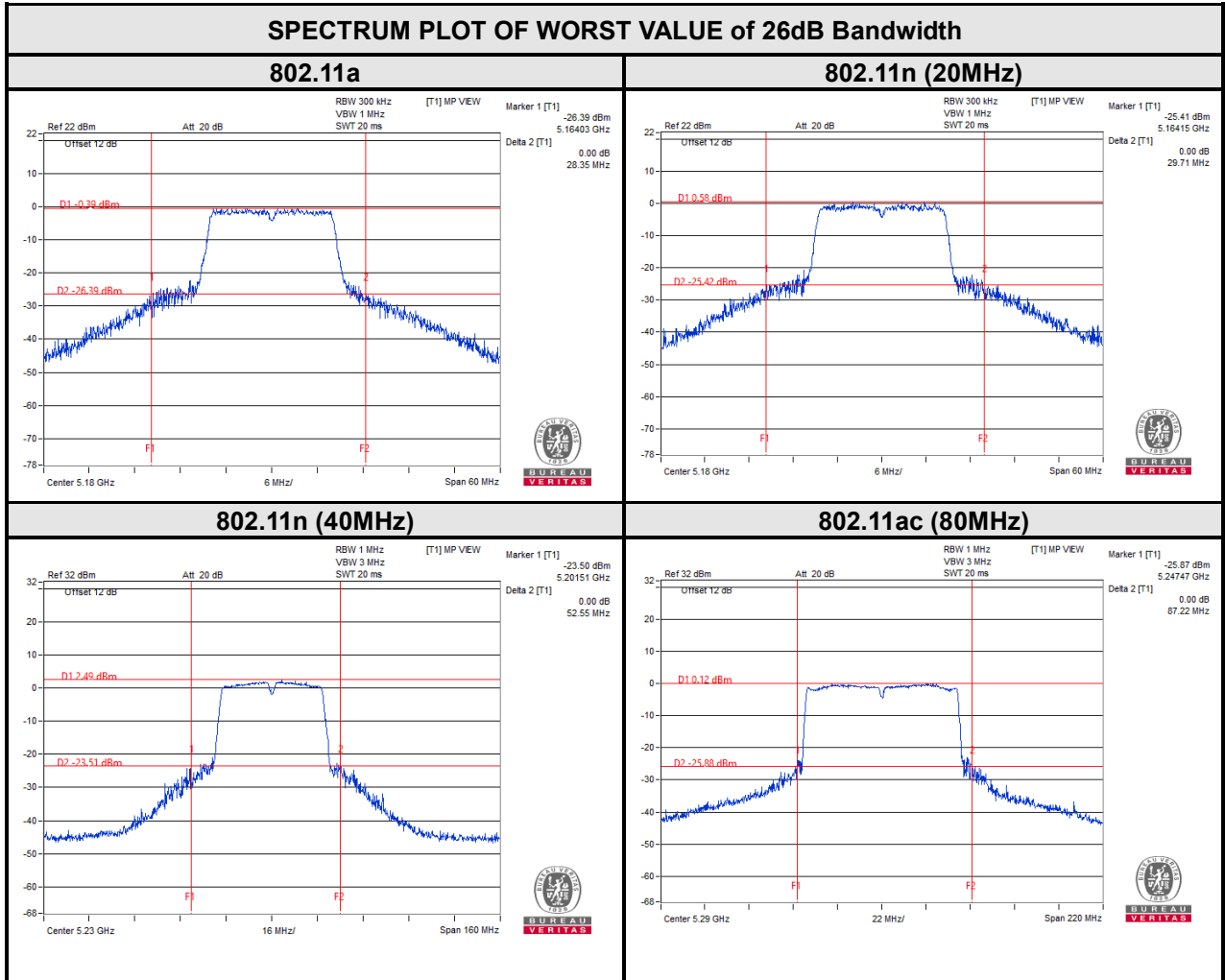


BUREAU VERITAS

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For U-NII-1:



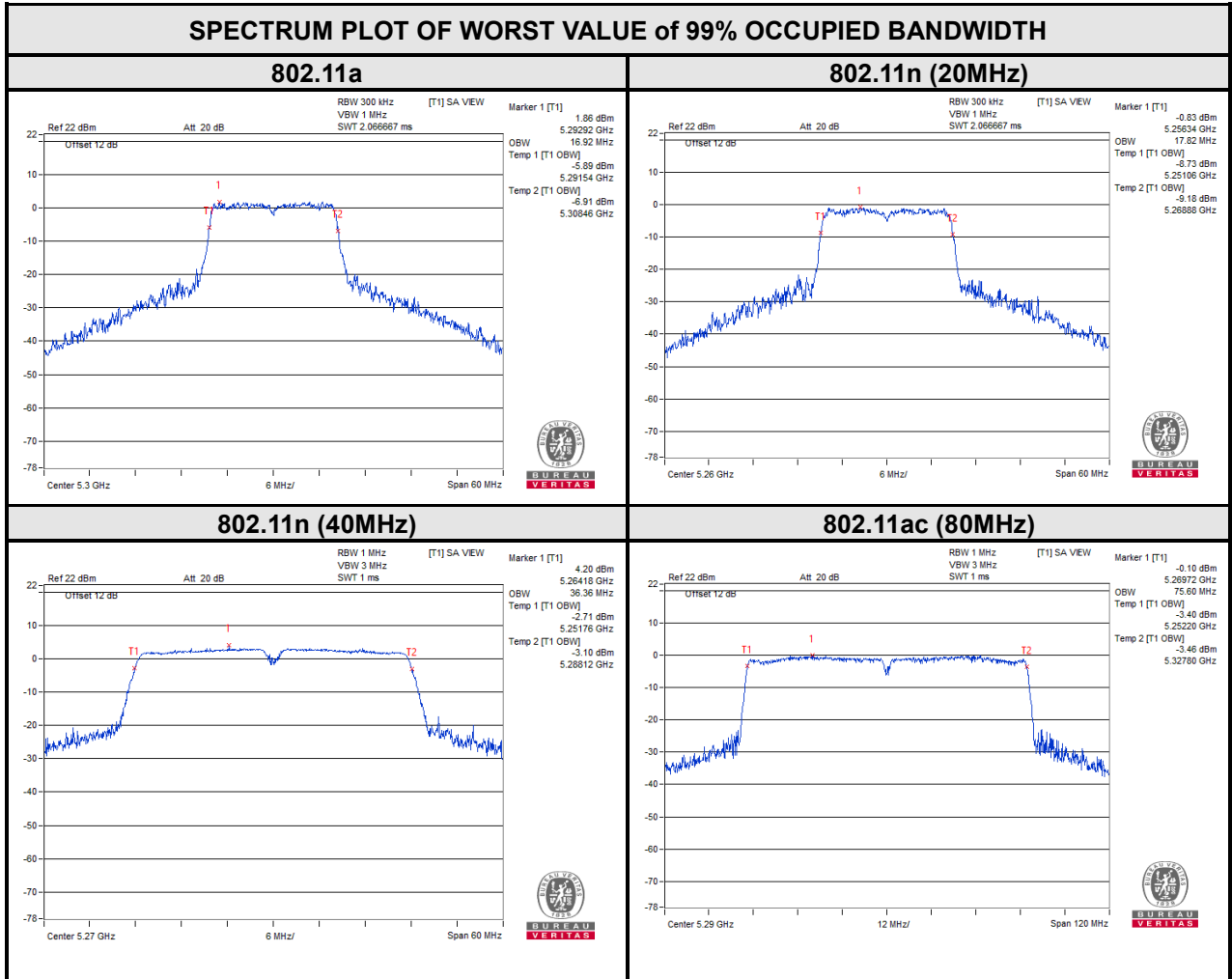




BUREAU VERITAS

Test Report No.: RF200324W001-3

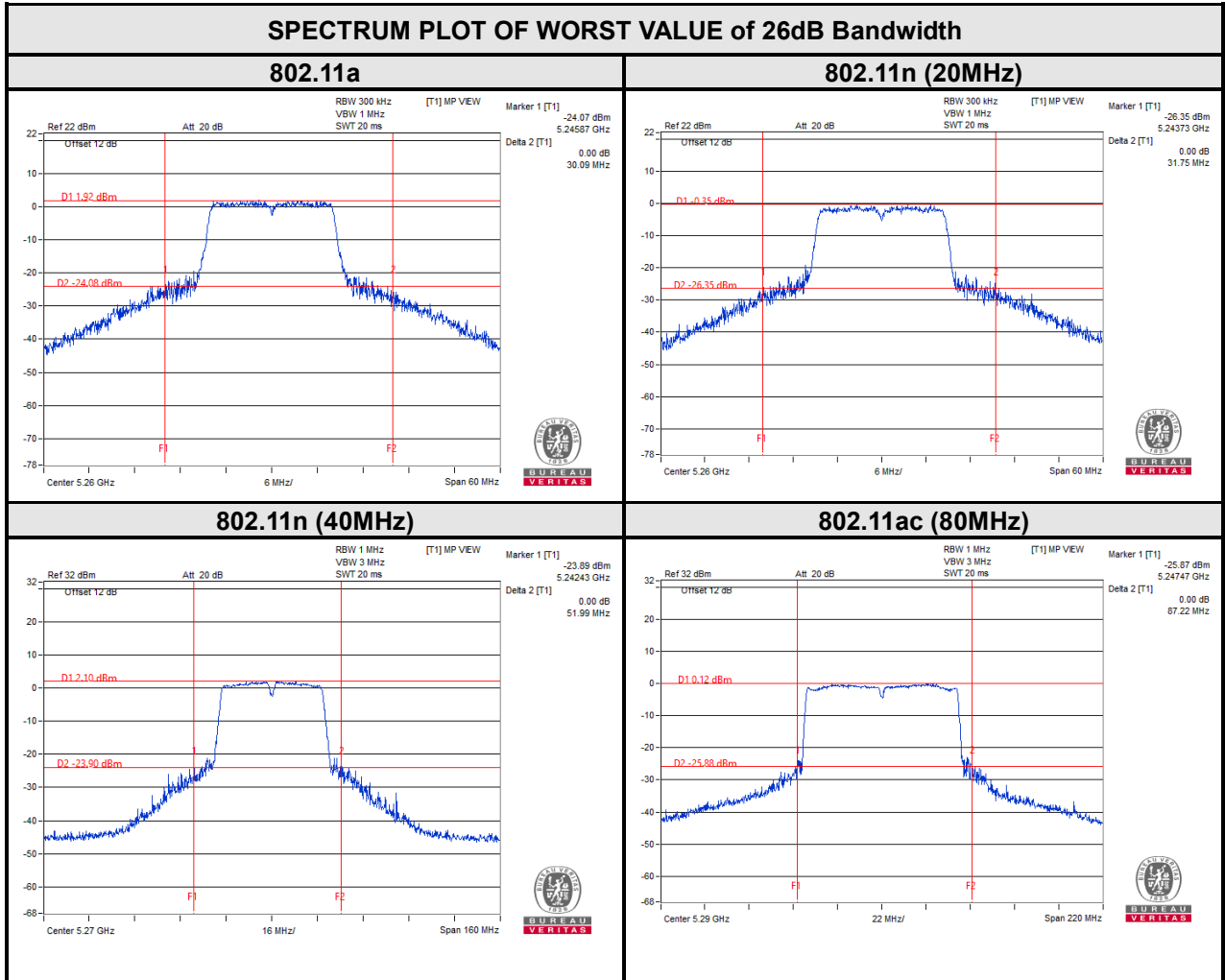
For U-NII-2A:





BUREAU VERITAS

Test Report No.: RF200324W001-3



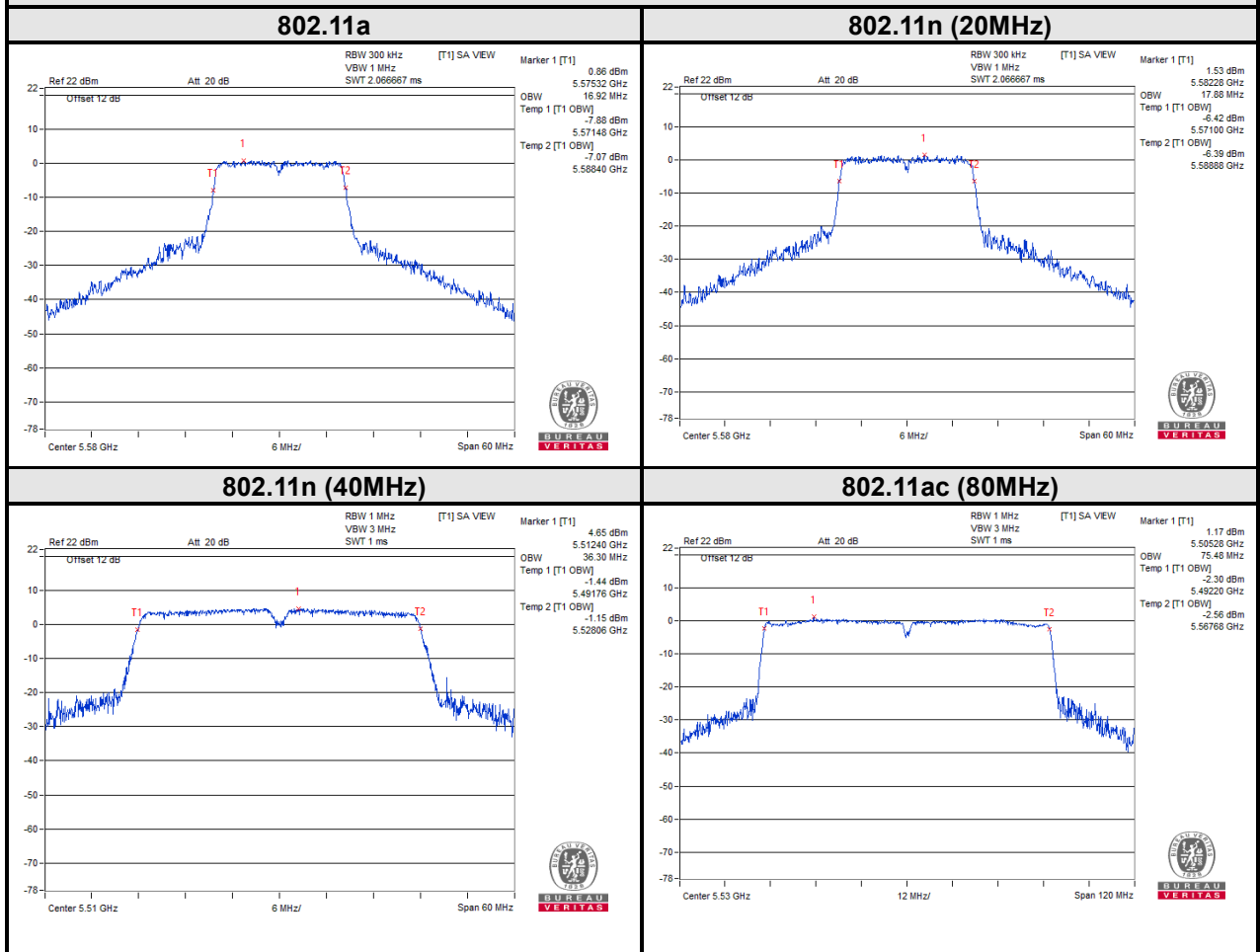


BUREAU VERITAS

Test Report No.: RF200324W001-3

For U-NII-2C:

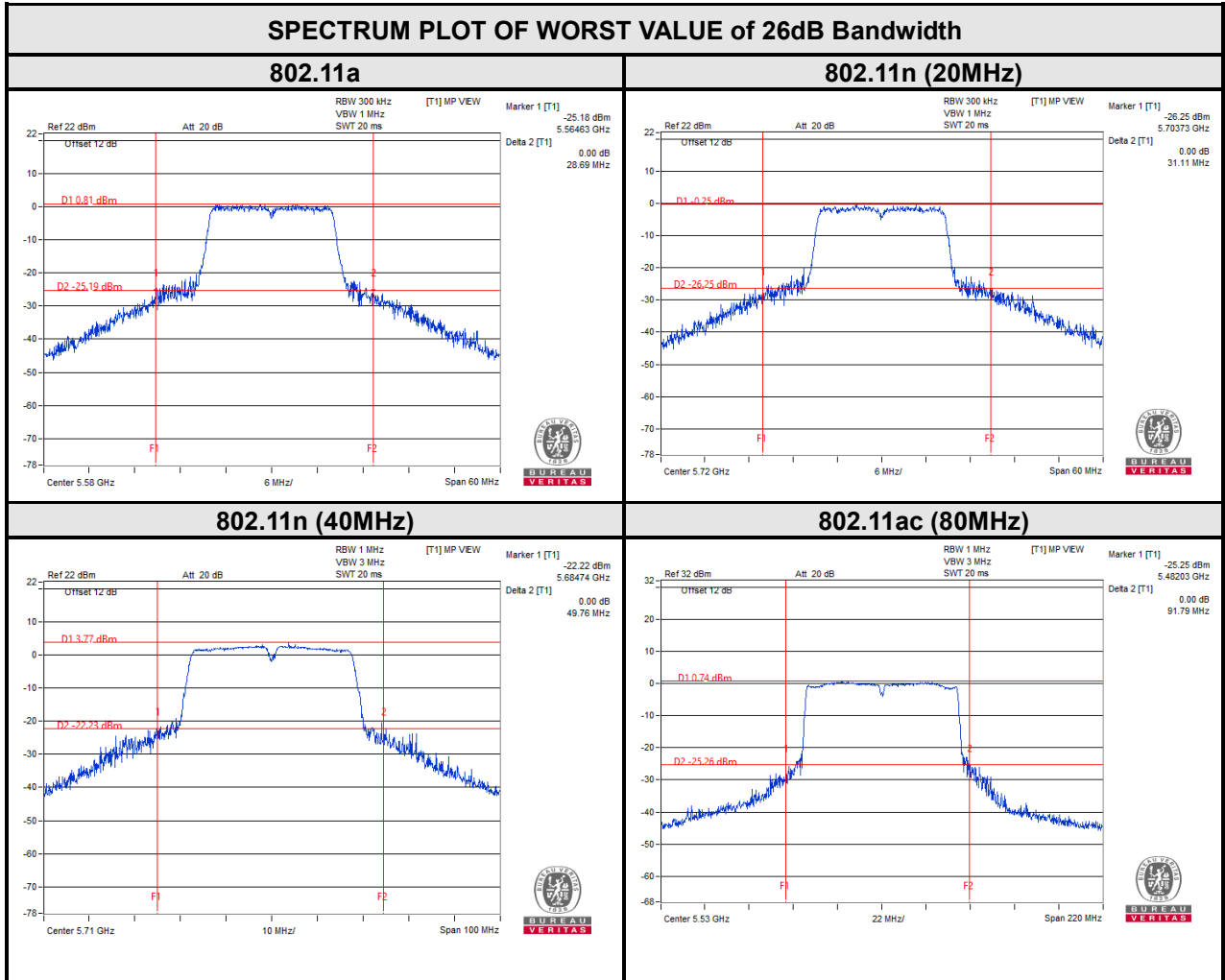
SPECTRUM PLOT OF WORST VALUE of 99% OCCUPIED BANDWIDTH





BUREAU VERITAS

Test Report No.: RF200324W001-3

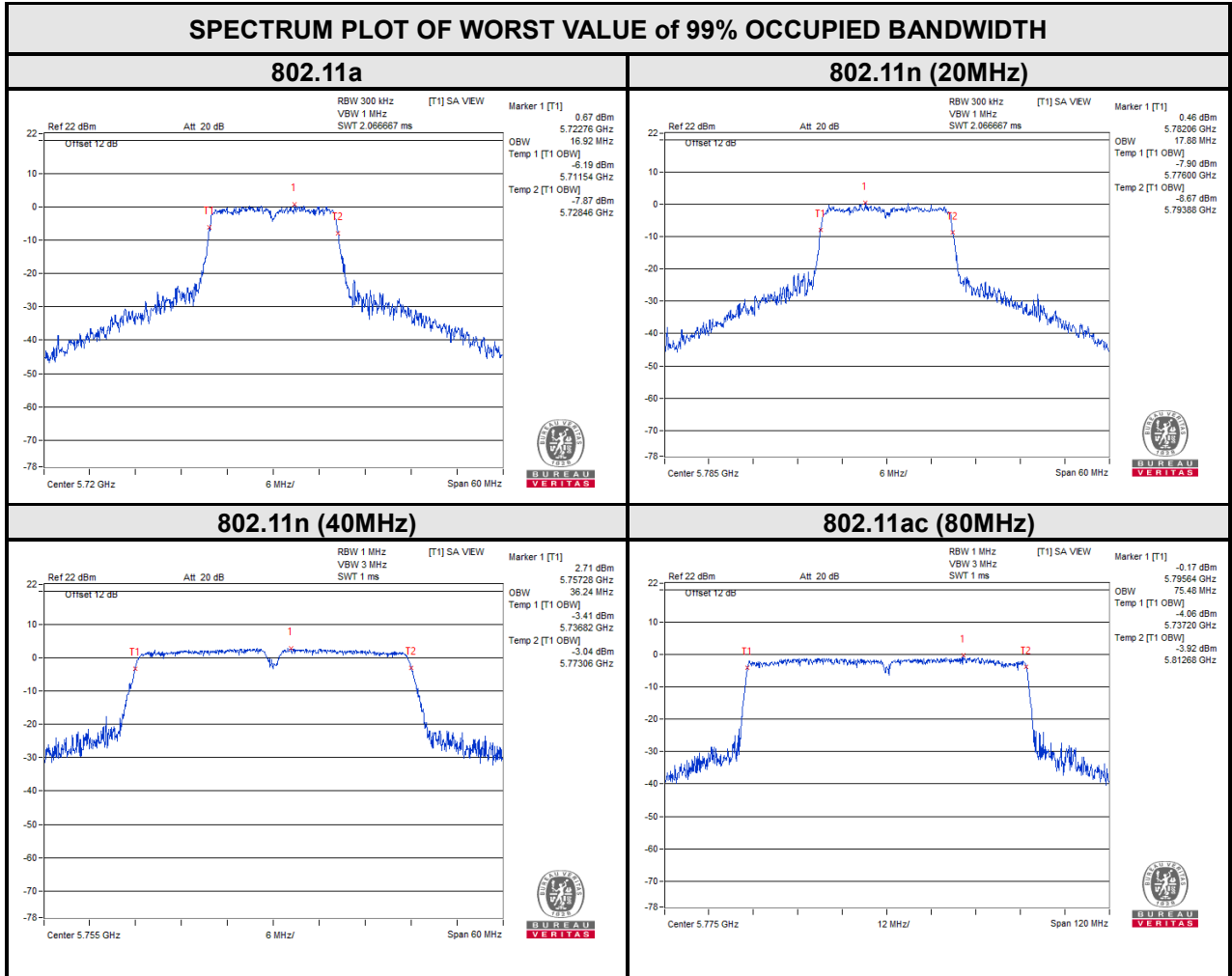




BUREAU VERITAS

Test Report No.: RF200324W001-3

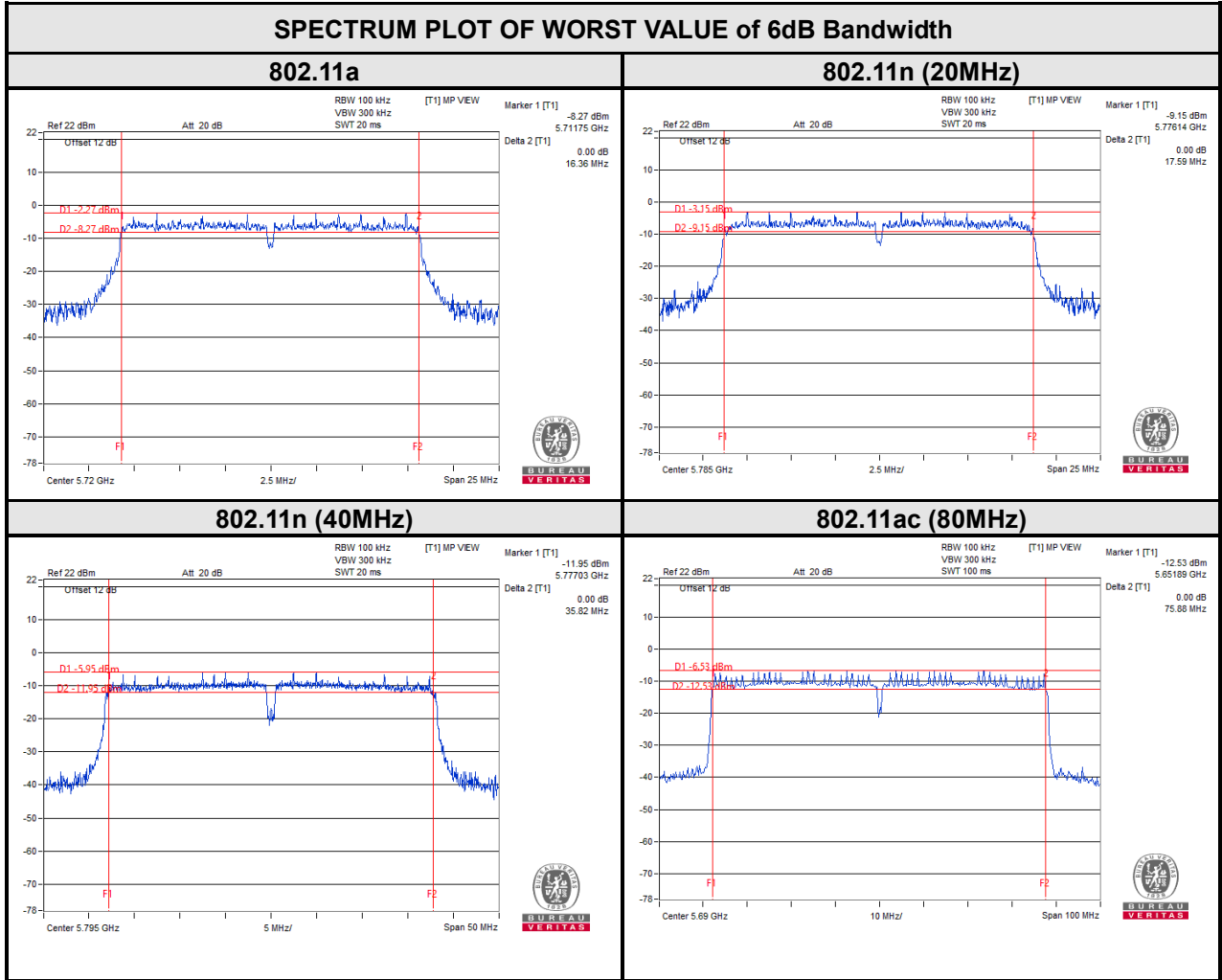
For U-NII-3:





BUREAU VERITAS

Test Report No.: RF200324W001-3



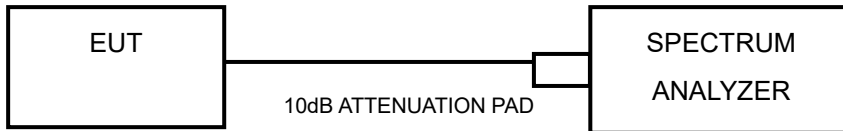


3.5 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.5.1 LIMITS OF MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

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

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.



3.5.4 TEST PROCEDURES

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1 MHz, Set VBW \geq 3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Add $10 \log (1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission).
- 7) Record the max value

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITIONS

Same as 3.1.6.



3.5.7 TEST RESULTS

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

802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	-4.12	0	-4.12	11	PASS
40	5200	-3.50	0	-3.50	11	PASS
48	5240	-1.56	0	-1.56	11	PASS
52	5260	-1.58	0	-1.58	11	PASS
60	5300	-1.46	0	-1.46	11	PASS
64	5320	-1.40	0	-1.40	11	PASS
100	5500	-2.72	0	-2.72	11	PASS
116	5580	-2.77	0	-2.77	11	PASS
140	5700	-3.12	0	-3.12	11	PASS
144	5720	2.56	0	2.56	11	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
36	5180	-3.42	0	-3.42	11	PASS
40	5200	-4.70	0	-4.70	11	PASS
48	5240	-4.10	0	-4.10	11	PASS
52	5260	-4.14	0	-4.14	11	PASS
60	5300	-3.97	0	-3.97	11	PASS
64	5320	-3.90	0	-3.90	11	PASS
100	5500	-2.94	0	-2.94	11	PASS
116	5580	-1.88	0	-1.88	11	PASS
140	5700	-3.62	0	-3.62	11	PASS
144	5720	2.63	0	2.63	11	PASS



802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
38	5190	-6.47	0	-6.47	11	PASS
46	5230	-7.24	0	-7.24	11	PASS
54	5270	-7.12	0	-7.12	11	PASS
62	5310	-5.93	0	-5.93	11	PASS
102	5510	-5.26	0	-5.26	11	PASS
110	5550	-5.55	0	-5.55	11	PASS
134	5670	-5.85	0	-5.85	11	PASS
142	5710	-0.77	0	-0.77	11	PASS

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
42	5210	-10.13	0	-10.13	11	PASS
58	5290	-9.27	0	-9.27	11	PASS
106	5530	-8.57	0	-8.57	11	PASS
122	5610	-7.96	0	-7.96	11	PASS
138	5690	-2.45	0	-2.45	11	PASS



For U-NII-3:

Note: $\text{dBm}/500\text{kHz} = \text{dBm}/\text{MHz} + 10 \cdot \log(0.5/1) = \text{dBm}/\text{MHz} - 3.01$

802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
144	5720	-8.01	-5.79	0	-5.79	30	PASS
149	5745	-7.93	-5.71	0	-5.71	30	PASS
157	5785	-7.61	-5.39	0	-5.39	30	PASS
165	5825	-7.94	-5.72	0	-5.72	30	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
144	5720	-8.61	-6.39	0	-6.39	30	PASS
149	5745	-8.89	-6.67	0	-6.67	30	PASS
157	5785	-8.33	-6.11	0	-6.11	30	PASS
165	5825	-8.57	-6.35	0	-6.35	30	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
142	5710	-11.37	-9.15	0	-9.15	30	PASS
151	5755	-11.93	-9.71	0	-9.71	30	PASS
159	5795	-11.63	-9.41	0	-9.41	30	PASS

802.11ac (80MHz)

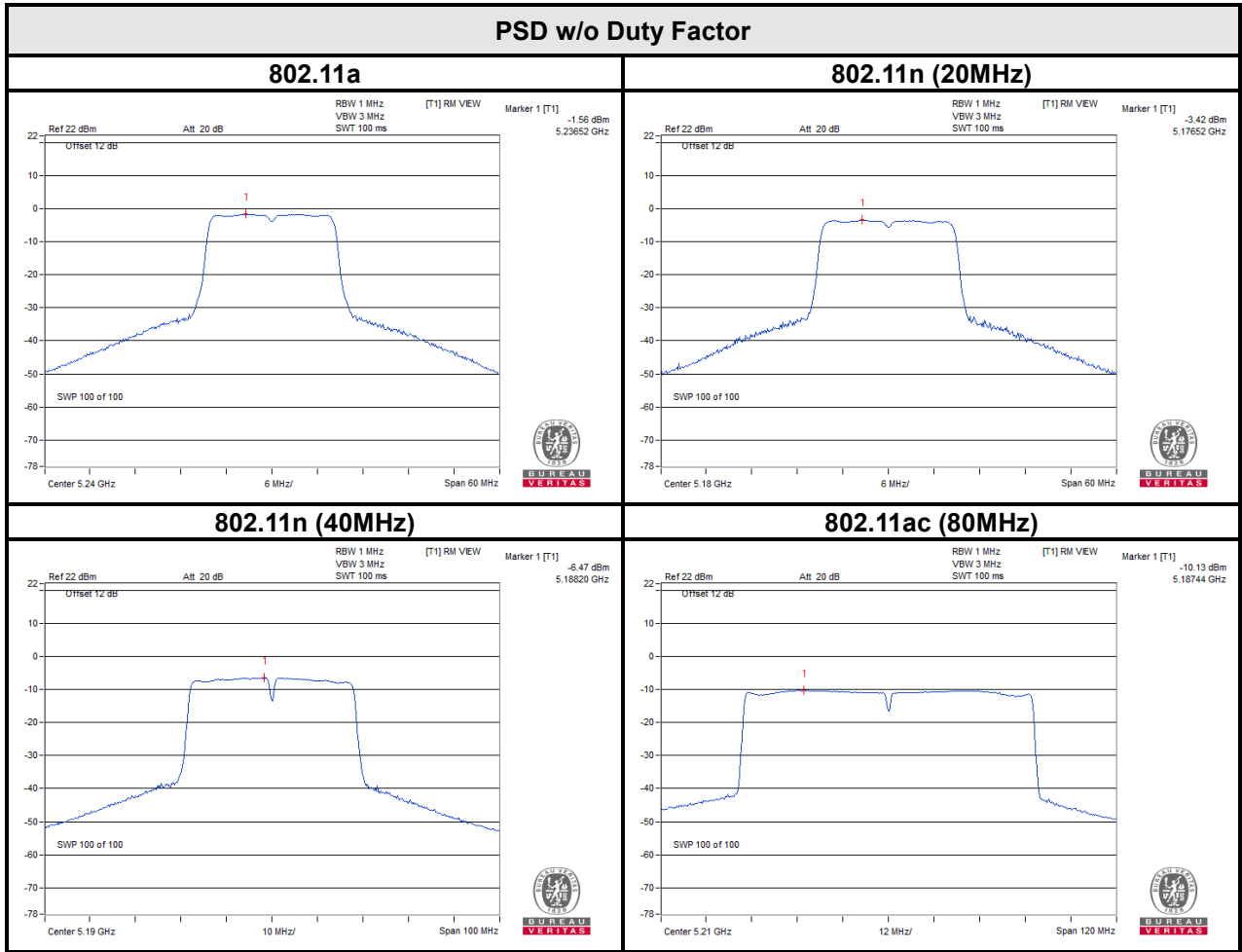
CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/300kHz)	PSD w/o Duty Factor (dBm/500kHz)	Duty Factor	PSD with Duty Factor (dBm/500kHz)	LIMIT (dBm/500kHz)	PASS /FAIL
138	5690	-12.99	-10.77	0	-10.77	30	PASS
155	5775	-14.84	-12.62	0	-12.62	30	PASS



BUREAU VERITAS

Test Report No.: RF200324W001-3

For 5180~5240MHz

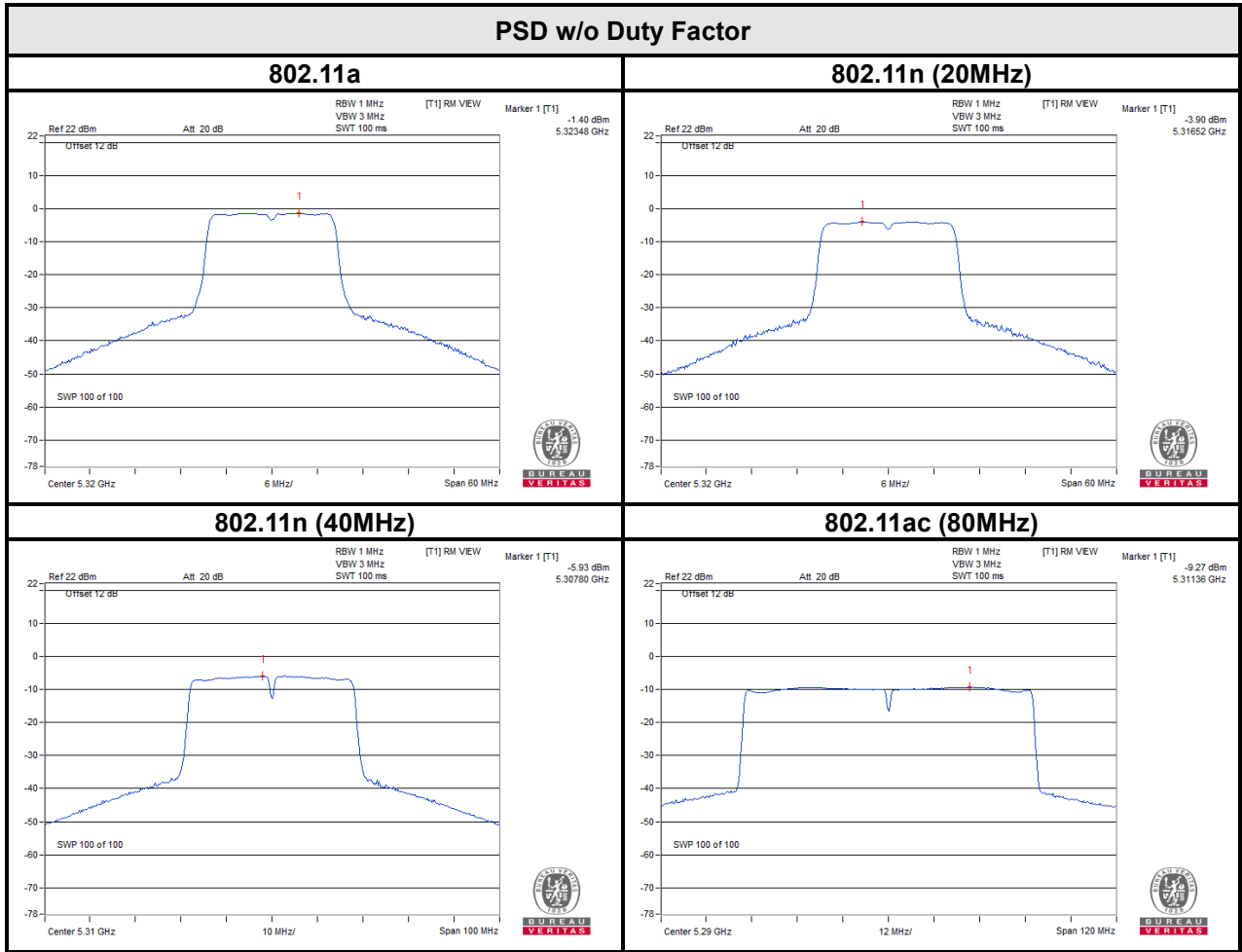




BUREAU VERITAS

Test Report No.: RF200324W001-3

For 5260~5320MHz

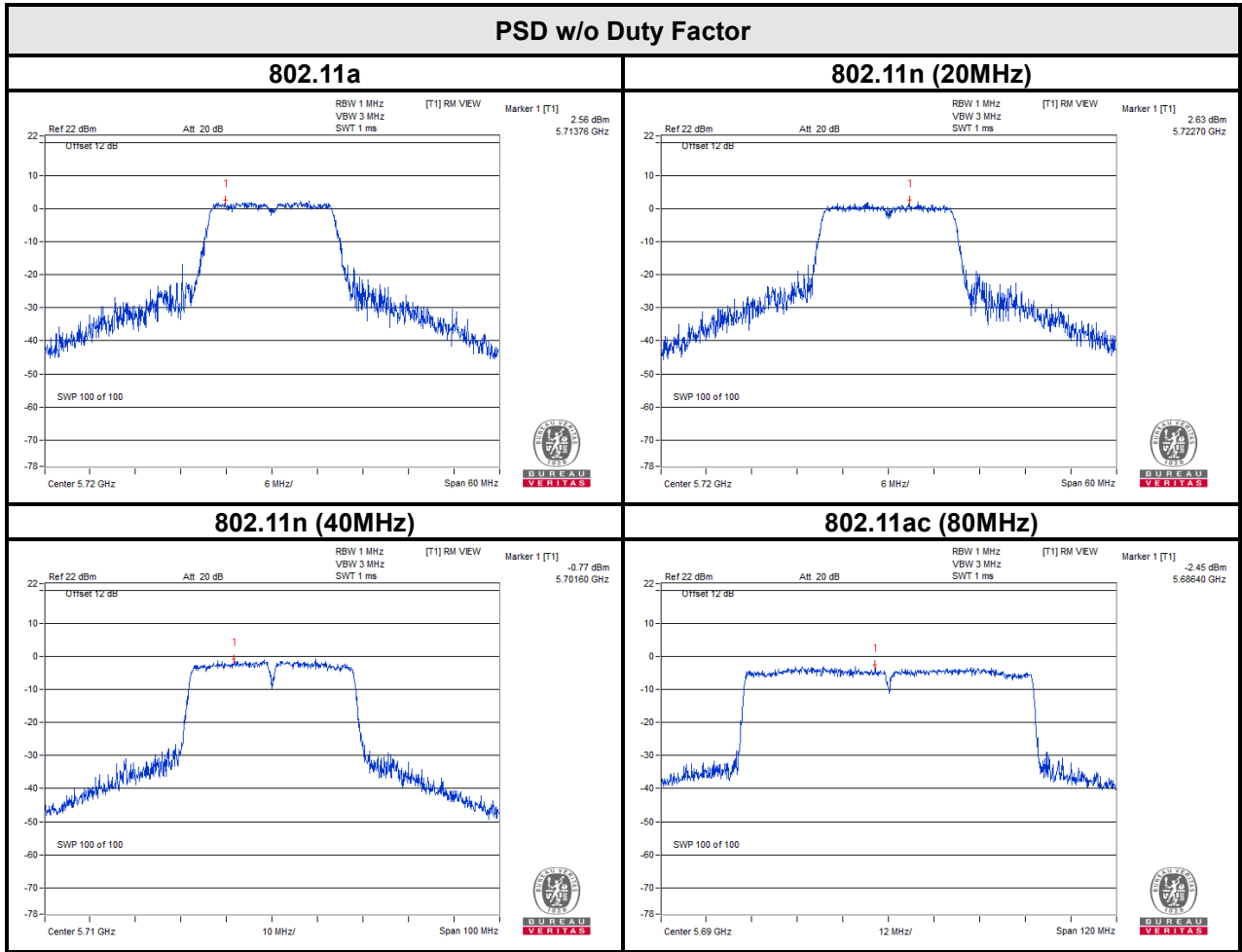




BUREAU VERITAS

Test Report No.: RF200324W001-3

For 5500~5720MHz

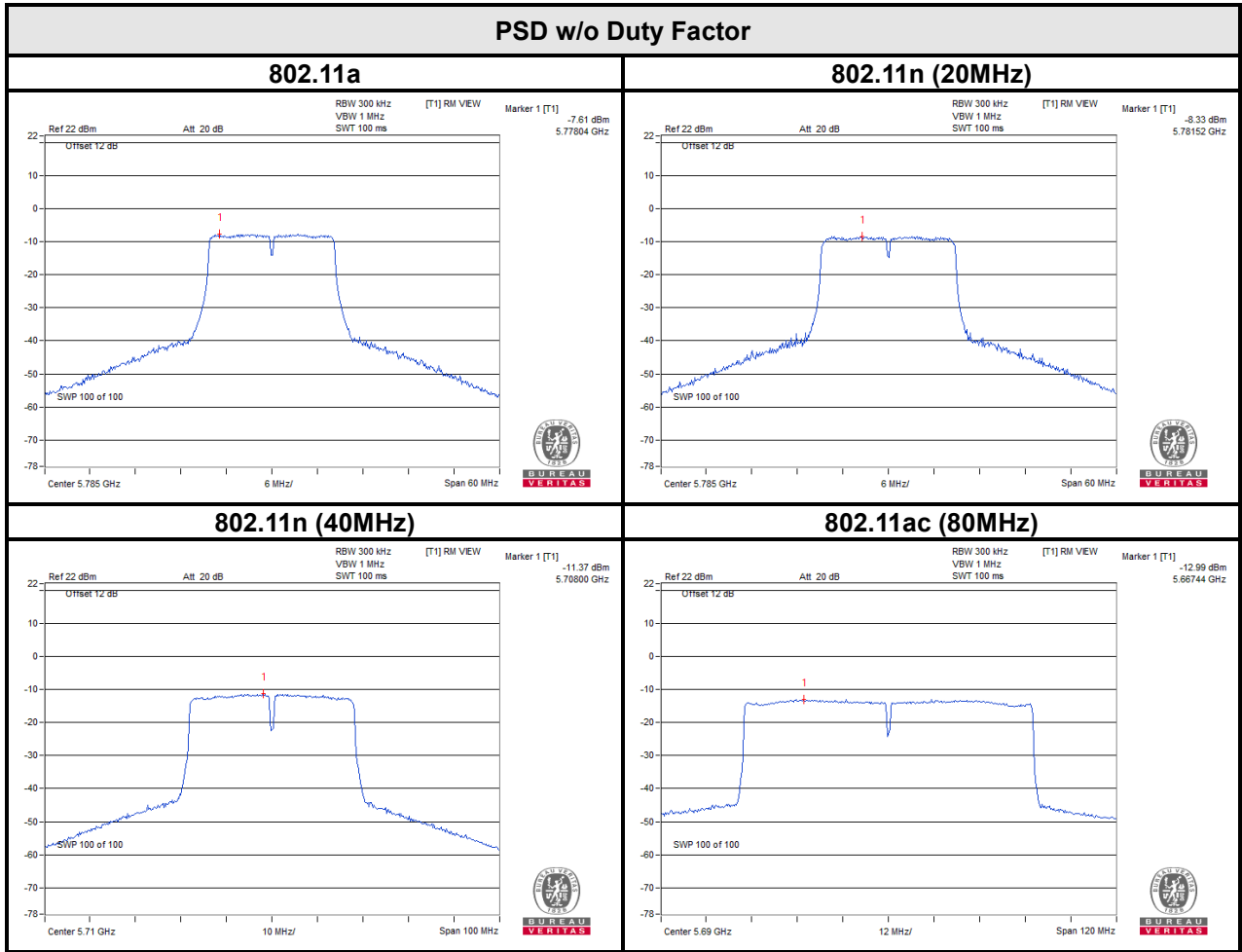




BUREAU VERITAS

Test Report No.: RF200324W001-3

For 5745~5825MHz





Test Report No.: RF200324W001-3

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



Test Report No.: RF200324W001-3

5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

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