

FCC TEST REPORT

(Part 15, Subpart E)

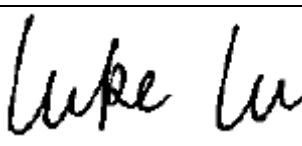
Applicant:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China,10085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China,10085
Product:	Mobile Phone
Brand Name:	Redmi
Model Name:	M2003J6A1G
FCC ID:	2AFZZJ6A1G
Date of tests:	Jan. 07, 2020 ~ Feb. 27, 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: Feb. 28, 2020	 Date: Feb. 28, 2020

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Test Report No.: RF200106W008-3

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF200106W008-3	Original release	Feb. 28, 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
15.407(b)(6)	AC Power Conducted Emission	Compliance
15.407(b) (1/2/3/4/5)	Radiated Emission & Band Edge Measurement	Compliance
15.407(a/1/2/3)	Maximum conducted output Power	Compliance
15.407(a/1/2/3)	Peak Power Spectral Density	Compliance
15.403(i)	26 dB Bandwidth	Compliance
15.407(e)	6 dB Bandwidth	Compliance
15.203	Antenna Requirement	Compliance

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	Mobile Phone
BRAND NAME	Redmi
MODEL NAME	M2003J6A1G
NOMINAL VOLTAGE	5V/9V/10V/12Vdc (adapter or host equipment) 3.87Vdc (Li-ion, battery)
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 ~ 5700MHz, 5745 ~ 5805MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5700MHz: 11 for 802.11a, 802.11n, 802.11ac(20MHz) 5 for 802.11n, 802.11ac (40MHz) 2 for 802.11ac (80MHz) 5745 ~ 5805MHz: 4 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz)
AVERAGE POWER	62.66mW for 5180 ~ 5240MHz 64.42mW for 5260 ~ 5320MHz 52.6mW for 5500 ~ 5700MHz 65.77mW for 5745 ~ 5805MHz
ANTENNA TYPE	PIFA Antenna
ANTENNA GAIN	ANT 0: -5.39dBi for 5180 ~ 5240MHz -4.76dBi for 5260 ~ 5320MHz -4.72dBi for 5500 ~ 5700MHz -4.47dBi for 5745 ~ 5805MHz ANT 1: -5.13dBi for 5180 ~ 5240MHz -5.27dBi for 5260 ~ 5320MHz -5.1dBi for 5500 ~ 5700MHz -4.96dBi for 5745 ~ 5805MHz
IMEI CODE	86590904



HW VERSION	P1.1
SW VERSION	MIUI 11
I/O PORTS	Refer to user's manual

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitter and two receiver.

MODULATION MODE	TX FUNCTION
802.11a	2TX/2RX
802.11n/802.11ac (20MHz)	2TX/2RX
802.11n/802.11ac (40MHz)	2TX/2RX
802.11ac (80MHz)	2TX/2RX

- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- The device will automatically discontinue transmission in case of either absence of information to transmit or operational failure.

List of Accessory:

ACCESSORIES	BRAND	MODEL	MANUFACTURER	SPECIFICATION
AC Adapter 1	MI	MDY-11-EQ	HUIZHOU BYD ELECTRONIC CO., LTD.	I/P: 100 - 240Vac, 600mA, O/P: 5Vdc, 3000mA/9V,2230mA/12V,1670mA/10V, 2250mA
AC Adapter 2	MI	MDY-11-EQ	Jiangsu Chenyang Electron Co., Ltd.	I/P: 100 - 240Vac, 600mA, O/P: 5Vdc, 3000mA/9V,2230mA/12V,1670mA/10V, 2250mA
Battery	MI	BN55	SUNWODA	Rating :3.87Vdc, 4920mAh, Li-ion, Y
USB Cable 1	MI	H73312	Weihai HongLin Technology Group Co., Ltd.	1.0 meter, non-shielded cable, without ferrite core
USB Cable 2	MI	L73312	Luxshare Precision Industry Co., Ltd.	1.0 meter, non-shielded cable, without ferrite core

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**

11 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		

5 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		

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz

FOR 5725 ~ 5850MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	157	5785 MHz
153	5765 MHz	161	5805 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775 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	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
A	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	MCS0
A	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	MCS0
A	802.11ac (80MHz)		106 to 122	106, 122	OFDM	MCS0
A	802.11a	5745-5805	149 to 161	149, 157, 161	OFDM	6.0
A	802.11n (20MHz)		149 to 161	149, 157, 161	OFDM	MCS0
A	802.11n (40MHz)		151 to 159	1151, 159	OFDM	MCS0
A	802.11ac (80MHz)		155	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	5745-5805	151,159	159	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	5745-5805	151,159	159	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	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
A	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	MCS0
A	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	MCS0
A	802.11ac (80MHz)		106 to 122	106, 122	OFDM	MCS0
A	802.11a	5745-5805	149 to 161	149, 157, 161	OFDM	6.0
A	802.11n (20MHz)		149 to 161	149, 157, 161	OFDM	MCS0
A	802.11n (40MHz)		151 to 159	1151, 159	OFDM	MCS0
A	802.11ac (80MHz)		155	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	5500-5700	100 to 140	100, 116, 140	OFDM	6.0
B	802.11n (20MHz)		100 to 140	100, 116, 140	OFDM	MCS0
B	802.11n (40MHz)		102 to 134	102, 110, 134	OFDM	MCS0
B	802.11ac (80MHz)		106 to 122	106, 122	OFDM	MCS0
B	802.11a	5745-5805	149 to 161	149, 157, 161	OFDM	6.0
B	802.11n (20MHz)		149 to 161	149, 157, 161	OFDM	MCS0
B	802.11n (40MHz)		151 to 159	1151, 159	OFDM	MCS0
B	802.11ac (80MHz)		155	155	OFDM	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5/9/10/12V By Adapter	Star Le
RE≥1G	23deg. C, 70%RH	DC 5/9/10/12V By Adapter	Star Le
PLC	25deg. C, 52%RH	DC 5/9/10/12V By Adapter	Chase Zhou
APCM	25deg. C, 60%RH	DC 3.87V By Battery	Harris Wang



2.3 DUTY CYCLE OF TEST SIGNAL

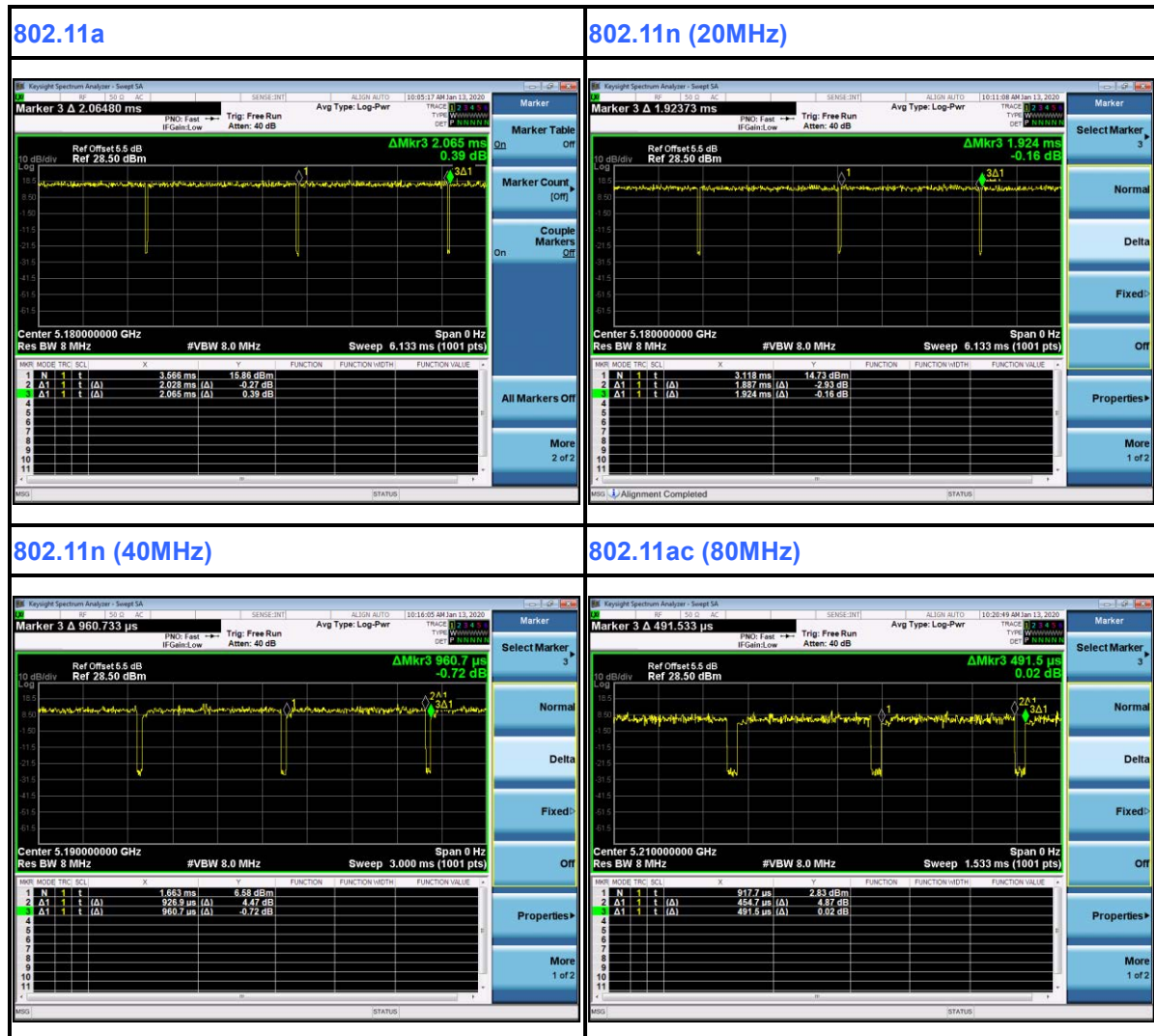
Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = $2.028/2.065 = 0.982$, duty factor shall not be considered.

802.11n (20MHz): Duty cycle = $1.887/1.924 = 0.981$, duty factor shall not be considered.

802.11n (40MHz): Duty cycle = $926.9/960.7 = 0.965$, Duty factor = $10 * \log(1/0.965) = 0.156$

802.11ac (80MHz): Duty cycle = $454.7/491.5 = 0.925$, Duty factor = $10 * \log(1/0.925) = 0.338$





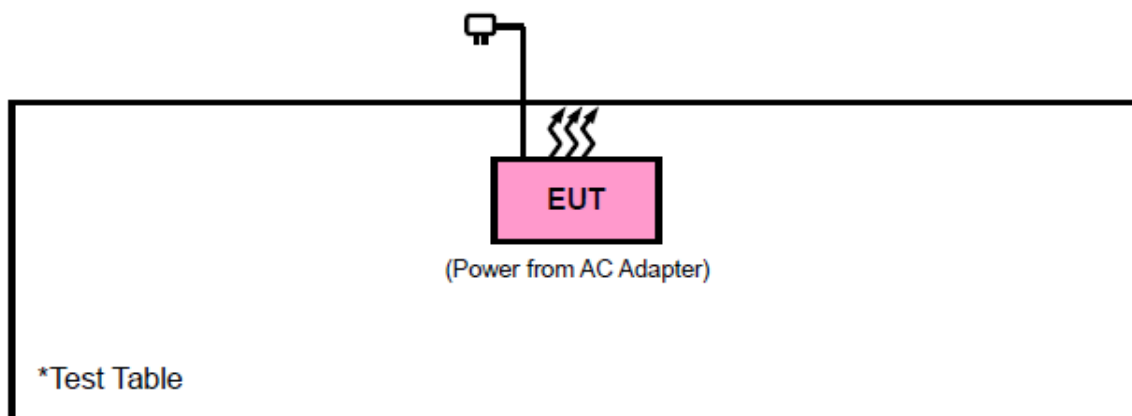
2.4 DESCRIPTION OF SUPPORT UNITS

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	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thnikpad L440	R90FTFKN	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m

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 (Certification). 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:

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

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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Feb. 26,20	Feb. 25,21
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 26,20	Feb. 25,21
Horn Antenna	ETS-LINDGREN	3117	00168728	Feb. 26,20	Feb. 25,21
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Nov. 21, 19	Nov. 20, 20
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 21,20	Jun. 20,21
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,20	Feb. 25,21
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 21,20	Jun. 20,21
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	Jun. 21,20	Jun. 20,21
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Jun. 21,20	Jun. 20,21

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 3m Chamber.
3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

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:

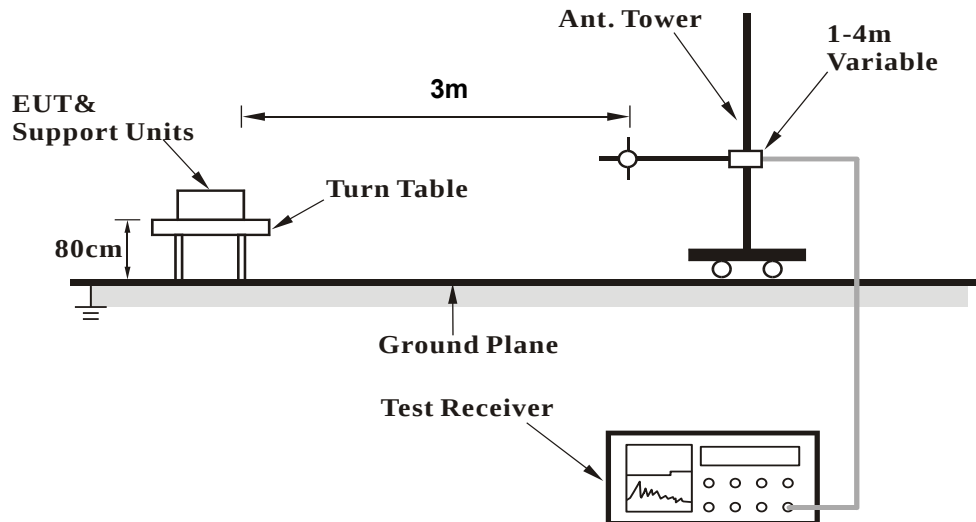
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency 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 ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) 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

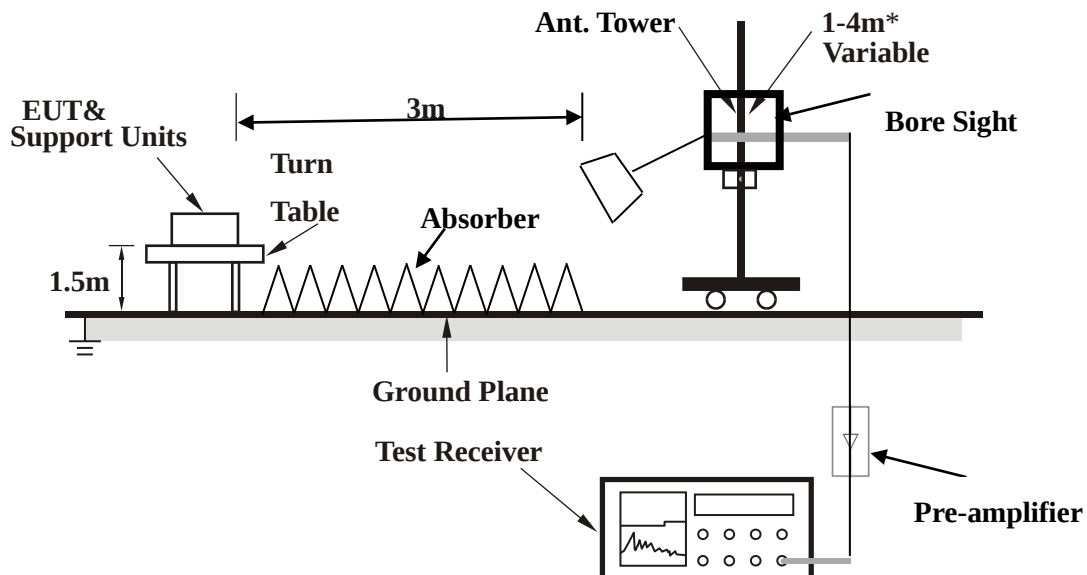
No deviation.

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).



Test Report No.: RF200106W008-3

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:

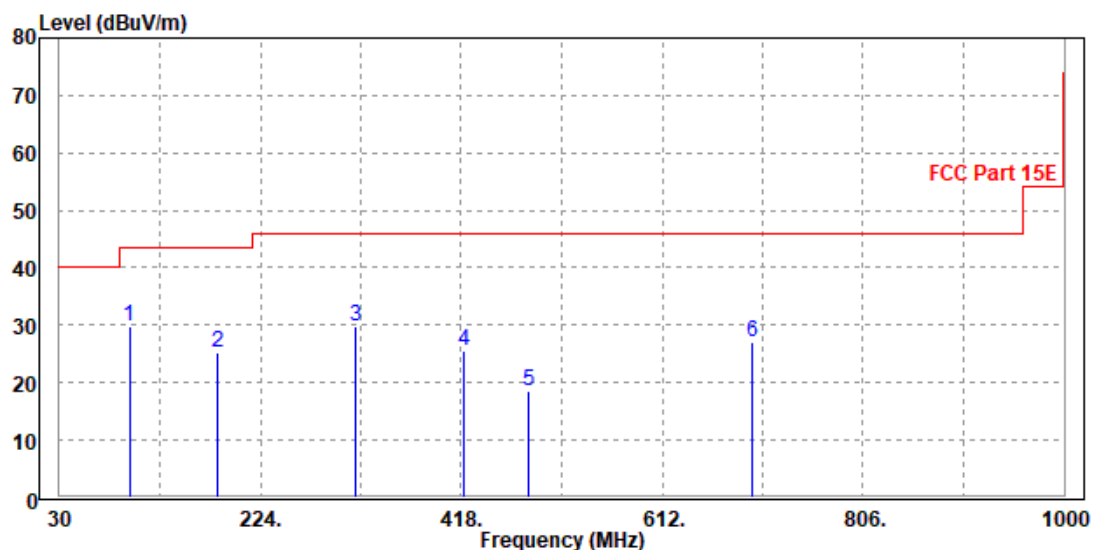
802.11n (40MHz)

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
97.52	29.84	56.32	43.5	-13.66	9.4	1.3	37.18	200	360	Peak
183.26	25.12	49.66	43.5	-18.38	10.38	1.71	36.63	200	360	Peak
315.66	29.73	49.63	46	-16.27	14.59	2.27	36.76	200	360	Peak
420.56	25.56	42.25	46	-20.44	17.47	2.7	36.86	200	360	Peak
482.33	18.43	34.21	46	-27.57	18.27	2.92	36.97	200	360	Peak
698.52	27.1	38.15	46	-18.9	22.96	3.52	37.53	200	360	Peak

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.

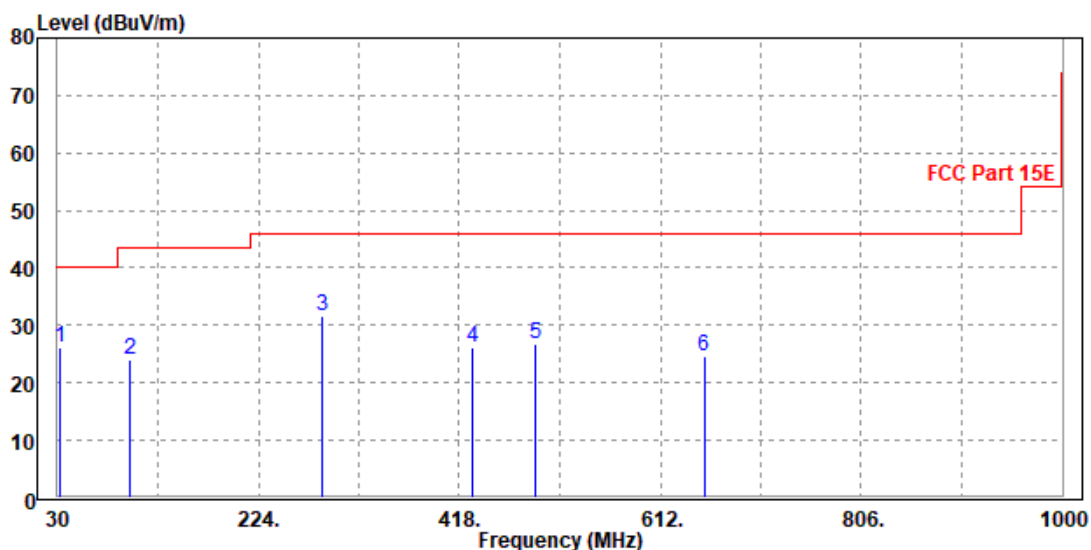


CHANNEL	Channel 159	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
32.85	26.11	47.25	40	-13.89	15.51	0.82	37.47	100	0	Peak
99.58	24.03	50.13	43.5	-19.47	9.75	1.31	37.16	100	0	Peak
285.12	31.7	52.36	46	-14.3	13.9	2.16	36.72	100	0	Peak
430.25	26.15	42.58	46	-19.85	17.72	2.73	36.88	100	0	Peak
491.65	26.71	42.16	46	-19.29	18.58	2.96	36.99	100	0	Peak
654.21	24.79	37.22	46	-21.21	21.67	3.36	37.46	100	0	Peak

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.





ABOVE 1GHz WORST-CASE DATA:

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

SISO MODE:

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.19	59.17	74	-17.81	35.95	7.42	46.35	100	145	Peak
5150	43.13	46.11	54	-10.87	35.95	7.42	46.35	100	145	Average
5180	91.81	94.75			35.98	7.43	46.35	100	145	Peak
5180	82.25	85.19			35.98	7.43	46.35	100	145	Average
5350	56.12	58.8	74	-17.88	36.15	7.47	46.3	100	145	Peak
5350	42.96	45.64	54	-11.04	36.15	7.47	46.3	100	145	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.6	59.24	74	-17.4	36.29	7.42	46.35	100	170	Peak
5150	43.17	45.81	54	-10.83	36.29	7.42	46.35	100	170	Average
5180	100.12	102.73			36.31	7.43	46.35	100	170	Peak
5180	89.92	92.53			36.31	7.43	46.35	100	170	Average
5350	55.64	58.06	74	-18.36	36.41	7.47	46.3	100	170	Peak
5350	42.98	45.4	54	-11.02	36.41	7.47	46.3	100	170	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.04	59.02	74	-17.96	35.95	7.42	46.35	100	150	Peak
5150	42.62	45.6	54	-11.38	35.95	7.42	46.35	100	150	Average
5200	94.08	96.99			36	7.43	46.34	100	150	Peak
5200	84.41	87.32			36	7.43	46.34	100	150	Average
5350	55.76	58.44	74	-18.24	36.15	7.47	46.3	100	150	Peak
5350	42.81	45.49	54	-11.19	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.41	59.05	74	-17.59	36.29	7.42	46.35	100	150	Peak
5150	43.01	45.65	54	-10.99	36.29	7.42	46.35	100	150	Average
5200	94.29	96.88			36.32	7.43	46.34	100	150	Peak
5200	84.69	87.28			36.32	7.43	46.34	100	150	Average
5350	55.82	58.24	74	-18.18	36.41	7.47	46.3	100	150	Peak
5350	43.12	45.54	54	-10.88	36.41	7.47	46.3	100	150	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.12	60.1	74	-16.88	35.95	7.42	46.35	100	150	Peak
5150	43.35	46.33	54	-10.65	35.95	7.42	46.35	100	150	Average
5210	84.19	87.08			36.01	7.44	46.34	100	150	Peak
5210	73.97	76.86			36.01	7.44	46.34	100	150	Average
5350	55.18	57.86	74	-18.82	36.15	7.47	46.3	100	150	Peak
5350	42.47	45.15	54	-11.53	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.22	59.86	74	-16.78	36.29	7.42	46.35	110	360	Peak
5150	43.45	46.09	54	-10.55	36.29	7.42	46.35	110	360	Average
5240	98.77	101.32			36.34	7.44	46.33	110	360	Peak
5240	86.78	89.33			36.34	7.44	46.33	110	360	Average
5350	56.08	58.5	74	-17.92	36.41	7.47	46.3	110	360	Peak
5350	43.33	45.75	54	-10.67	36.41	7.47	46.3	110	360	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.81	58.79	74	-18.19	35.95	7.42	46.35	100	150	Peak
5150	42.85	45.83	54	-11.15	35.95	7.42	46.35	100	150	Average
5200	91.36	94.27			36	7.43	46.34	100	150	Peak
5200	80.22	83.13			36	7.43	46.34	100	150	Average
5350	55.2	57.88	74	-18.8	36.15	7.47	46.3	100	150	Peak
5350	42.12	44.8	54	-11.88	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.96	59.6	74	-17.04	36.29	7.42	46.35	100	160	Peak
5150	44.06	46.7	54	-9.94	36.29	7.42	46.35	100	160	Average
5180	93.45	96.06			36.31	7.43	46.35	100	160	Peak
5180	84.45	87.06			36.31	7.43	46.35	100	160	Average
5350	55.19	57.61	74	-18.81	36.41	7.47	46.3	100	160	Peak
5350	42.9	45.32	54	-11.1	36.41	7.47	46.3	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.81	58.79	74	-18.19	35.95	7.42	46.35	100	150	Peak
5150	42.85	45.83	54	-11.15	35.95	7.42	46.35	100	150	Average
5200	91.36	94.27			36	7.43	46.34	100	150	Peak
5200	80.22	83.13			36	7.43	46.34	100	150	Average
5350	55.2	57.88	74	-18.8	36.15	7.47	46.3	100	150	Peak
5350	42.12	44.8	54	-11.88	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.55	59.19	74	-17.45	36.29	7.42	46.35	100	165	Peak
5150	43.45	46.09	54	-10.55	36.29	7.42	46.35	100	165	Average
5200	93.06	95.65			36.32	7.43	46.34	100	165	Peak
5200	83.53	86.12			36.32	7.43	46.34	100	165	Average
5350	55.45	57.87	74	-18.55	36.41	7.47	46.3	100	165	Peak
5350	42.76	45.18	54	-11.24	36.41	7.47	46.3	100	165	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	42.93	45.91	54	-11.07	35.95	7.42	46.35	100	135	Peak
5150	43.94	46.92	54	-10.06	35.95	7.42	46.35	100	135	Average
5240	93.3	96.15			36.04	7.44	46.33	100	135	Peak
5240	83.2	86.05			36.04	7.44	46.33	100	135	Average
5350	54.61	57.29	74	-19.39	36.15	7.47	46.3	100	135	Peak
5350	42.05	44.73	54	-11.95	36.15	7.47	46.3	100	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.32	58.96	74	-17.68	36.29	7.42	46.35	100	160	Peak
5150	42.94	45.58	54	-11.06	36.29	7.42	46.35	100	160	Average
5240	94.8	97.35			36.34	7.44	46.33	100	160	Peak
5240	84.83	87.38			36.34	7.44	46.33	100	160	Average
5350	54.53	56.95	74	-19.47	36.41	7.47	46.3	100	160	Peak
5350	42.9	45.32	54	-11.1	36.41	7.47	46.3	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.45	59.43	74	-17.55	35.95	7.42	46.35	100	150	Peak
5150	43.41	46.39	54	-10.59	35.95	7.42	46.35	100	150	Average
5190	87.72	90.64			35.99	7.43	46.34	100	150	Peak
5190	77.65	80.57			35.99	7.43	46.34	100	150	Average
5350	54.74	57.42	74	-19.26	36.15	7.47	46.3	100	150	Peak
5350	42.23	44.91	54	-11.77	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.92	59.56	74	-17.08	36.29	7.42	46.35	100	160	Peak
5150	43.86	46.5	54	-10.14	36.29	7.42	46.35	100	160	Average
5190	90.46	93.06			36.31	7.43	46.34	100	160	Peak
5190	82.3	84.9			36.31	7.43	46.34	100	160	Average
5350	55.88	58.3	74	-18.12	36.41	7.47	46.3	100	160	Peak
5350	42.91	45.33	54	-11.09	36.41	7.47	46.3	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.67	58.65	74	-18.33	35.95	7.42	46.35	100	150	Peak
5150	42.78	45.76	54	-11.22	35.95	7.42	46.35	100	150	Average
5230	88.32	91.18			36.03	7.44	46.33	100	150	Peak
5230	78.37	81.23			36.03	7.44	46.33	100	150	Average
5350	54.36	57.04	74	-19.64	36.15	7.47	46.3	100	150	Peak
5350	42.18	44.86	54	-11.82	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	42.92	45.56	54	-11.08	36.29	7.42	46.35	100	165	Peak
5150	42.92	45.56	54	-11.08	36.29	7.42	46.35	100	165	Average
5230	90.51	93.06			36.34	7.44	46.33	100	165	Peak
5230	81.41	83.96			36.34	7.44	46.33	100	165	Average
5350	55.53	57.95	74	-18.47	36.41	7.47	46.3	100	165	Peak
5350	42.69	45.11	54	-11.31	36.41	7.47	46.3	100	165	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.12	60.1	74	-16.88	35.95	7.42	46.35	100	150	Peak
5150	43.35	46.33	54	-10.65	35.95	7.42	46.35	100	150	Average
5210	84.19	87.08			36.01	7.44	46.34	100	150	Peak
5210	73.97	76.86			36.01	7.44	46.34	100	150	Average
5350	55.18	57.86	74	-18.82	36.15	7.47	46.3	100	150	Peak
5350	42.47	45.15	54	-11.53	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.08	59.72	74	-16.92	36.29	7.42	46.35	100	165	Peak
5150	44	46.64	54	-10	36.29	7.42	46.35	100	165	Average
5210	86.36	88.93			36.33	7.44	46.34	100	165	Peak
5210	76.14	78.71			36.33	7.44	46.34	100	165	Average
5350	55.88	58.3	74	-18.12	36.41	7.47	46.3	100	165	Peak
5350	43.44	45.86	54	-10.56	36.41	7.47	46.3	100	165	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.01	59.99	74	-16.99	35.95	7.42	46.35	140	140	Peak
5150	43.14	46.12	54	-10.86	35.95	7.42	46.35	140	140	Average
5260	96.03	98.84			36.06	7.45	46.32	140	140	Peak
5260	86.98	89.79			36.06	7.45	46.32	140	140	Average
5350	55.23	57.91	74	-18.77	36.15	7.47	46.3	140	140	Peak
5350	42.49	45.17	54	-11.51	36.15	7.47	46.3	140	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.46	59.1	74	-17.54	36.29	7.42	46.35	100	160	Peak
5150	43.49	46.13	54	-10.51	36.29	7.42	46.35	100	160	Average
5260	97.11	99.62			36.36	7.45	46.32	100	160	Peak
5260	87.11	89.62			36.36	7.45	46.32	100	160	Average
5350	55.48	57.9	74	-18.52	36.41	7.47	46.3	100	160	Peak
5350	42.88	45.3	54	-11.12	36.41	7.47	46.3	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.02	58	74	-18.98	35.95	7.42	46.35	100	140	Peak
5150	42.47	45.45	54	-11.53	35.95	7.42	46.35	100	140	Average
5300	95.6	98.35			36.1	7.46	46.31	100	140	Peak
5300	83.48	86.23			36.1	7.46	46.31	100	140	Average
5350	54.85	57.53	74	-19.15	36.15	7.47	46.3	100	140	Peak
5350	41.92	44.6	54	-12.08	36.15	7.47	46.3	100	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.62	58.26	74	-18.38	36.29	7.42	46.35	100	155	Peak
5150	43.19	45.83	54	-10.81	36.29	7.42	46.35	100	155	Average
5300	98.47	100.94			36.38	7.46	46.31	100	155	Peak
5300	87.38	89.85			36.38	7.46	46.31	100	155	Average
5350	54.86	57.28	74	-19.14	36.41	7.47	46.3	100	155	Peak
5350	42.37	44.79	54	-11.63	36.41	7.47	46.3	100	155	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.6	59.58	74	-17.4	35.95	7.42	46.35	100	150	Peak
5150	43.35	46.33	54	-10.65	35.95	7.42	46.35	100	150	Average
5320	95.84	98.56			36.12	7.46	46.3	100	150	Peak
5320	84.47	87.19			36.12	7.46	46.3	100	150	Average
5350	55.14	57.82	74	-18.86	36.15	7.47	46.3	100	150	Peak
5350	42.78	45.46	54	-11.22	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.1	58.74	74	-17.9	36.29	7.42	46.35	100	155	Peak
5150	43.28	45.92	54	-10.72	36.29	7.42	46.35	100	155	Average
5320	96.98	99.43			36.39	7.46	46.3	100	155	Peak
5320	86.72	89.17			36.39	7.46	46.3	100	155	Average
5350	55.45	57.87	74	-18.55	36.41	7.47	46.3	100	155	Peak
5350	42.65	45.07	54	-11.35	36.41	7.47	46.3	100	155	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.99	58.97	74	-18.01	35.95	7.42	46.35	120	150	Peak
5150	42.82	45.8	54	-11.18	35.95	7.42	46.35	120	150	Average
5260	94.17	96.98			36.06	7.45	46.32	120	150	Peak
5260	84.71	87.52			36.06	7.45	46.32	120	150	Average
5350	54.68	57.36	74	-19.32	36.15	7.47	46.3	120	150	Peak
5350	42.35	45.03	54	-11.65	36.15	7.47	46.3	120	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.4	60.04	74	-16.6	36.29	7.42	46.35	100	150	Peak
5150	43.23	45.87	54	-10.77	36.29	7.42	46.35	100	150	Average
5260	97.11	99.62			36.36	7.45	46.32	100	150	Peak
5260	85.6	88.11			36.36	7.45	46.32	100	150	Average
5350	54.84	57.26	74	-19.16	36.41	7.47	46.3	100	150	Peak
5350	42.45	44.87	54	-11.55	36.41	7.47	46.3	100	150	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.77	59.75	74	-17.23	35.95	7.42	46.35	100	150	Peak
5150	43.68	46.66	54	-10.32	35.95	7.42	46.35	100	150	Average
5300	94.35	97.1			36.1	7.46	46.31	100	150	Peak
5300	83.02	85.77			36.1	7.46	46.31	100	150	Average
5350	55.49	58.17	74	-18.51	36.15	7.47	46.3	100	150	Peak
5350	42.99	45.67	54	-11.01	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.47	60.11	74	-16.53	36.29	7.42	46.35	100	160	Peak
5150	43.95	46.59	54	-10.05	36.29	7.42	46.35	100	160	Average
5300	96.14	98.61			36.38	7.46	46.31	100	160	Peak
5300	84.83	87.3			36.38	7.46	46.31	100	160	Average
5350	55.62	58.04	74	-18.38	36.41	7.47	46.3	100	160	Peak
5350	43.5	45.92	54	-10.5	36.41	7.47	46.3	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.61	58.59	74	-18.39	35.95	7.42	46.35	100	140	Peak
5150	43.32	46.3	54	-10.68	35.95	7.42	46.35	100	140	Average
5320	95	97.72			36.12	7.46	46.3	100	140	Peak
5320	83.6	86.32			36.12	7.46	46.3	100	140	Average
5350	55.53	58.21	74	-18.47	36.15	7.47	46.3	100	140	Peak
5350	42.22	44.9	54	-11.78	36.15	7.47	46.3	100	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.24	59.88	74	-16.76	36.29	7.42	46.35	100	160	Peak
5150	43.97	46.61	54	-10.03	36.29	7.42	46.35	100	160	Average
5320	95	97.45			36.39	7.46	46.3	100	160	Peak
5320	82.8	85.25			36.39	7.46	46.3	100	160	Average
5350	56.78	59.2	74	-17.22	36.41	7.47	46.3	100	160	Peak
5350	43.53	45.95	54	-10.47	36.41	7.47	46.3	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.45	59.43	74	-17.55	35.95	7.42	46.35	100	150	Peak
5150	43.09	46.07	54	-10.91	35.95	7.42	46.35	100	150	Average
5270	89.95	92.75			36.07	7.45	46.32	100	150	Peak
5270	79.85	82.65			36.07	7.45	46.32	100	150	Average
5350	55.39	58.07	74	-18.61	36.15	7.47	46.3	100	150	Peak
5350	42.77	45.45	54	-11.23	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.23	58.87	74	-17.77	36.29	7.42	46.35	100	155	Peak
5150	43.09	45.73	54	-10.91	36.29	7.42	46.35	100	155	Average
5270	91.89	94.4			36.36	7.45	46.32	100	155	Peak
5270	83.92	86.43			36.36	7.45	46.32	100	155	Average
5350	55.47	57.89	74	-18.53	36.41	7.47	46.3	100	155	Peak
5350	42.63	45.05	54	-11.37	36.41	7.47	46.3	100	155	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.35	58.33	74	-18.65	35.95	7.42	46.35	100	140	Peak
5150	42.37	45.35	54	-11.63	35.95	7.42	46.35	100	140	Average
5310	89.73	92.59			36.03	7.44	46.33	100	140	Peak
5310	78.44	81.3			36.03	7.44	46.33	100	140	Average
5350	54.98	57.66	74	-19.02	36.15	7.47	46.3	100	140	Peak
5350	42.5	45.18	54	-11.5	36.15	7.47	46.3	100	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.76	58.4	74	-18.24	36.29	7.42	46.35	100	155	Peak
5150	44.13	46.77	54	-9.87	36.29	7.42	46.35	100	155	Average
5310	90.59	93.05			36.39	7.46	46.31	100	155	Peak
5310	82.61	85.07			36.39	7.46	46.31	100	155	Average
5350	56.09	58.51	74	-17.91	36.41	7.47	46.3	100	155	Peak
5350	42.91	45.33	54	-11.09	36.41	7.47	46.3	100	155	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.68	57.66	74	-19.32	35.95	7.42	46.35	100	140	Peak
5150	42.38	45.36	54	-11.62	35.95	7.42	46.35	100	140	Average
5290	84.41	87.18			36.09	7.45	46.31	100	140	Peak
5290	71.94	74.71			36.09	7.45	46.31	100	140	Average
5350	55.38	58.06	74	-18.62	36.15	7.47	46.3	100	140	Peak
5350	42.41	45.09	54	-11.59	36.15	7.47	46.3	100	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.88	58.52	74	-18.12	36.29	7.42	46.35	100	160	Peak
5150	42.52	45.16	54	-11.48	36.29	7.42	46.35	100	160	Average
5290	86.12	88.61			36.37	7.45	46.31	100	160	Peak
5290	76.81	79.3			36.37	7.45	46.31	100	160	Average
5350	54.27	56.69	74	-19.73	36.41	7.47	46.3	100	160	Peak
5350	42.27	44.69	54	-11.73	36.41	7.47	46.3	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.16	58.67	74	-17.84	36.26	7.49	46.26	100	130	Peak
5460	42.68	45.19	54	-11.32	36.26	7.49	46.26	100	130	Average
#5470	56.18	58.68	68.3	-12.12	36.27	7.49	46.26	100	130	Peak
5500	96.76	99.21			36.3	7.5	46.25	100	130	Peak
5500	86.05	88.5			36.3	7.5	46.25	100	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.41	57.7	74	-18.59	36.48	7.49	46.26	100	165	Peak
5460	42.67	44.96	54	-11.33	36.48	7.49	46.26	100	165	Average
#5470	55.03	57.32	68.3	-13.27	36.48	7.49	46.26	100	165	Peak
5500	97	99.25			36.5	7.5	46.25	100	165	Peak
5500	85.43	87.68			36.5	7.5	46.25	100	165	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.95	57.46	74	-19.05	36.26	7.49	46.26	100	130	Peak
5460	42.45	44.96	54	-11.55	36.26	7.49	46.26	100	130	Average
#5470	54.1	56.6	68.3	-14.2	36.27	7.49	46.26	100	130	Peak
5580	97.56	99.88			36.33	7.58	46.23	100	130	Peak
5580	87.85	90.17			36.33	7.58	46.23	100	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.98	57.27	74	-19.02	36.48	7.49	46.26	100	160	Peak
5460	42.77	45.06	54	-11.23	36.48	7.49	46.26	100	160	Average
#5470	55.3	57.59	68.3	-13	36.48	7.49	46.26	100	160	Peak
5580	99.87	101.97			36.55	7.58	46.23	100	160	Peak
5580	90	92.1			36.55	7.58	46.23	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	97.94	100.05			36.38	7.7	46.19	100	140	Peak
5700	97.86	99.97			36.38	7.7	46.19	100	140	Average
#5725	56.62	58.69	68.3	-11.68	36.39	7.73	46.19	100	140	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	98.05	99.92			36.62	7.7	46.19	110	160	Peak
5700	89.62	91.49			36.62	7.7	46.19	110	160	Average
#5725	57.34	59.17	68.3	-10.96	36.63	7.73	46.19	110	160	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.5	58.01	74	-18.5	36.26	7.49	46.26	100	130	Peak
5460	42.45	44.96	54	-11.55	36.26	7.49	46.26	100	130	Average
#5470	54.78	57.28	68.3	-13.52	36.27	7.49	46.26	100	130	Peak
5500	93.24	95.69			36.3	7.5	46.25	100	130	Peak
5500	83.2	85.65			36.3	7.5	46.25	100	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.34	58.63	74	-17.66	36.48	7.49	46.26	100	160	Peak
5460	42.71	45	54	-11.29	36.48	7.49	46.26	100	160	Average
#5470	54.29	56.58	68.3	-14.01	36.48	7.49	46.26	100	160	Peak
5500	93.28	95.53			36.5	7.5	46.25	100	160	Peak
5500	82.8	85.05			36.5	7.5	46.25	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.87	58.38	74	-18.13	36.26	7.49	46.26	100	140	Peak
5460	42.59	45.1	54	-11.41	36.26	7.49	46.26	100	140	Average
#5470	54.86	57.36	68.3	-13.44	36.27	7.49	46.26	100	140	Peak
5580	95.62	97.94			36.33	7.58	46.23	100	140	Peak
5580	85.58	87.9			36.33	7.58	46.23	100	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.03	58.32	74	-17.97	36.48	7.49	46.26	100	165	Peak
5460	42.82	45.11	54	-11.18	36.48	7.49	46.26	100	165	Average
#5470	55.59	57.88	68.3	-12.71	36.48	7.49	46.26	100	165	Peak
5580	96.67	98.77			36.55	7.58	46.23	100	165	Peak
5580	86.66	88.76			36.55	7.58	46.23	100	165	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	96.28	98.39			36.38	7.7	46.19	100	140	Peak
5700	86.63	88.74			36.38	7.7	46.19	100	140	Average
#5725	57.88	59.95	68.3	-10.42	36.39	7.73	46.19	100	140	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	92.93	94.8			36.62	7.7	46.19	100	160	Peak
5700	83.82	85.69			36.62	7.7	46.19	100	160	Average
#5725	57.31	59.14	68.3	-10.99	36.63	7.73	46.19	100	160	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.59	59.1	74	-17.41	36.26	7.49	46.26	100	140	Peak
5460	43.25	45.76	54	-10.75	36.26	7.49	46.26	100	140	Average
#5470	55.85	58.35	68.3	-12.45	36.27	7.49	46.26	100	140	Peak
5510	89.86	92.3			36.3	7.51	46.25	100	140	Peak
5510	81.91	84.35			36.3	7.51	46.25	100	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.77	58.06	74	-18.23	36.48	7.49	46.26	100	160	Peak
5460	43.27	45.56	54	-10.73	36.48	7.49	46.26	100	160	Average
#5470	56.61	58.9	68.3	-11.69	36.48	7.49	46.26	100	160	Peak
5510	91.06	93.29			36.51	7.51	46.25	100	160	Peak
5510	81.21	83.44			36.51	7.51	46.25	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.75	58.26	74	-18.25	36.26	7.49	46.26	100	130	Peak
5460	43.05	45.56	54	-10.95	36.26	7.49	46.26	100	130	Average
#5470	55.94	58.44	68.3	-12.36	36.27	7.49	46.26	100	130	Peak
5550	90.91	93.28			36.32	7.55	46.24	100	130	Peak
5550	82.85	85.22			36.32	7.55	46.24	100	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	57.34	59.63	74	-16.66	36.48	7.49	46.26	100	145	Peak
5460	43.17	45.46	54	-10.83	36.48	7.49	46.26	100	145	Average
#5470	56.75	59.04	68.3	-11.55	36.48	7.49	46.26	100	145	Peak
5550	91.96	94.12			36.53	7.55	46.24	100	145	Peak
5550	83.82	85.98			36.53	7.55	46.24	100	145	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	91.54	93.7			36.37	7.67	46.2	100	140	Peak
5670	83.3	85.46			36.37	7.67	46.2	100	140	Average
#5725	57.87	59.94	68.3	-10.43	36.39	7.73	46.19	100	140	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	92.44	94.37			36.6	7.67	46.2	105	150	Peak
5670	85.68	87.61			36.6	7.67	46.2	105	150	Average
#5725	57.83	59.66	68.3	-10.47	36.63	7.73	46.19	105	150	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5670MHz: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.56	58.07	74	-18.44	36.26	7.49	46.26	100	140	Peak
5460	42.95	45.46	54	-11.05	36.26	7.49	46.26	100	140	Average
#5470	55.2	57.7	68.3	-13.1	36.27	7.49	46.26	100	140	Peak
5530	85.96	88.36			36.31	7.53	46.24	100	140	Peak
5530	73.5	75.9			36.31	7.53	46.24	100	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.78	58.07	74	-18.22	36.48	7.49	46.26	100	120	Peak
5460	43.09	45.38	54	-10.91	36.48	7.49	46.26	100	120	Average
#5470	55.63	57.92	68.3	-12.67	36.48	7.49	46.26	100	120	Peak
5530	85.02	87.21			36.52	7.53	46.24	100	120	Peak
5530	76.45	78.64			36.52	7.53	46.24	100	120	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5610	86.65	88.92			36.34	7.61	46.22	100	130	Peak
5610	77.39	79.66			36.34	7.61	46.22	100	130	Average
#5725	57.69	59.76	68.3	-10.61	36.39	7.73	46.19	100	130	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5610	87.17	89.21			36.57	7.61	46.22	100	160	Peak
5610	79.03	81.07			36.57	7.61	46.22	100	160	Average
#5725	57.61	59.44	68.3	-10.69	36.63	7.73	46.19	100	160	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5610MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	98.4	100.43			36.4	7.75	46.18	100	130	Peak
5745	89.06	91.09			36.4	7.75	46.18	100	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	97.05	98.83			36.65	7.75	46.18	105	160	Peak
5745	84.63	86.41			36.65	7.75	46.18	105	160	Average

REMARKS:

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

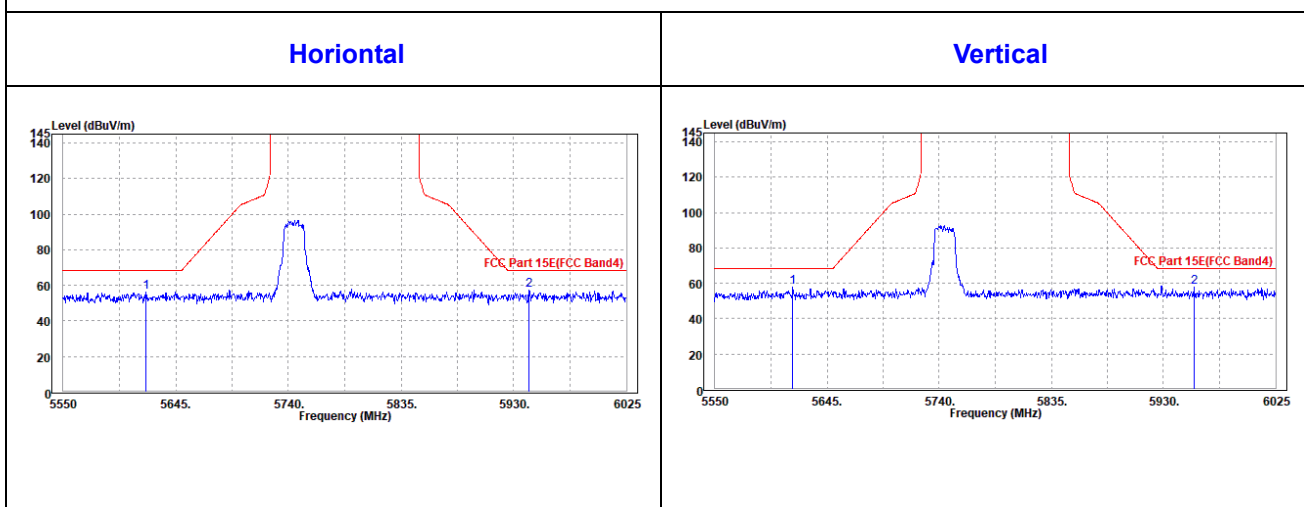


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802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5619.825	56.3	58.55	68.3	-12	36.35	7.62	46.22	100	130	Peak
5942.825	57.13	58.83	68.3	-11.17	36.48	7.95	46.13	100	130	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5616.025	57.68	59.71	68.3	-10.62	36.57	7.62	46.22	105	160	Peak
5955.65	58.09	59.48	68.3	-10.21	36.77	7.96	46.12	105	160	Peak

CH 149





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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	96.17	98.14			36.41	7.79	46.17	100	130	Peak
5785	86.86	88.83			36.41	7.79	46.17	100	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	95.86	97.57			36.67	7.79	46.17	110	160	Peak
5785	85.81	87.52			36.67	7.79	46.17	110	160	Average

REMARKS:

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

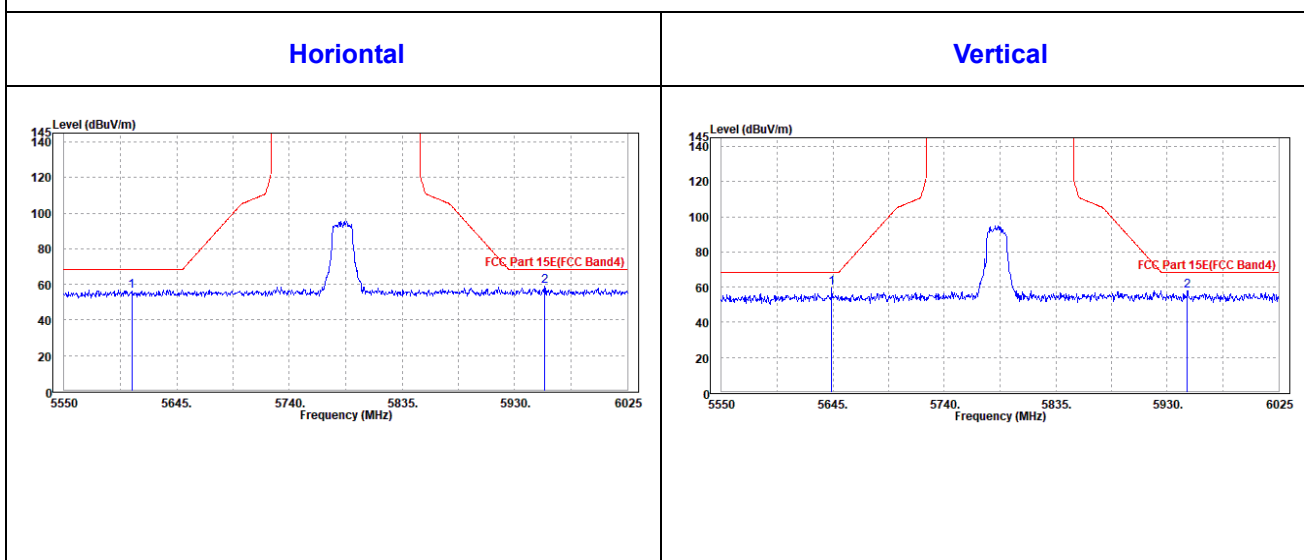


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802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5607	56.44	58.71	68.3	-11.86	36.34	7.61	46.22	100	130	Peak
5955.175	59.17	60.85	68.3	-9.13	36.48	7.96	46.12	100	130	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5644.05	59.47	61.44	68.3	-8.83	36.59	7.65	46.21	110	160	Peak
5947.1	58.05	59.44	68.3	-10.25	36.77	7.96	46.12	110	160	Peak

CH 157





CHANNEL	TX Channel 161	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5805	100.63	102.56			36.42	7.81	46.16	100	360	Peak
5805	90.51	92.44			36.42	7.81	46.16	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5805	98.99	100.66			36.68	7.81	46.16	100	0	Peak
5805	86.99	88.66			36.68	7.81	46.16	100	0	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5805MHz: Fundamental frequency.

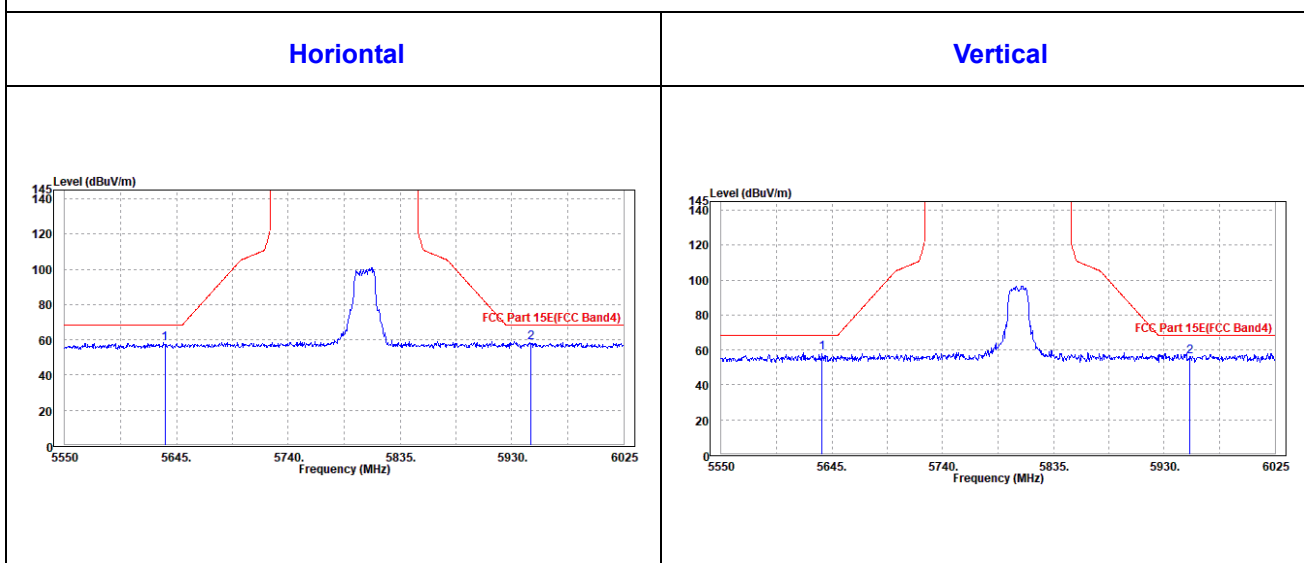


OOBE DATA

802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5635.12	57.89	60.11	68.3	-10.41	36.35	7.64	46.21	100	360	Peak
5946.21	58.43	60.12	68.3	-9.87	36.48	7.96	46.13	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5636.21	58.37	60.36	68.3	-9.93	36.58	7.64	46.21	100	0	Peak
5952	56.26	57.65	68.3	-12.04	36.77	7.96	46.12	100	0	Peak

CH 161





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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	96.81	98.84			36.4	7.75	46.18	100	125	Peak
5745	87.68	89.71			36.4	7.75	46.18	100	125	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	95.88	97.66			36.65	7.75	46.18	110	120	Peak
5745	85.69	87.47			36.65	7.75	46.18	110	120	Average

REMARKS:

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

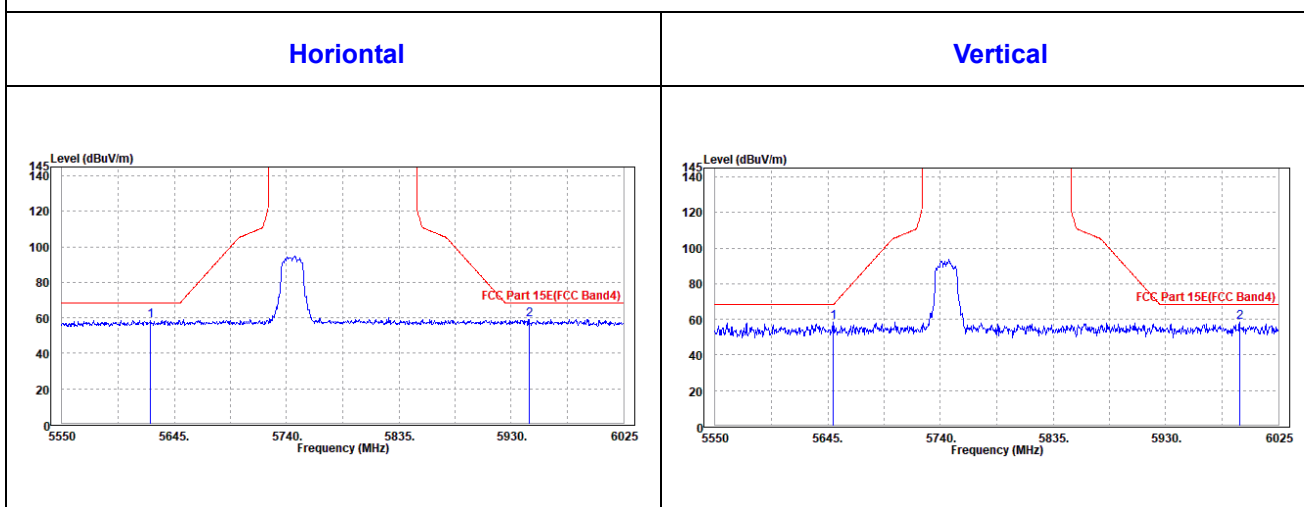


OOBE DATA

802.11n (20MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5625.05	58.52	60.75	68.3	-9.78	36.35	7.63	46.21	100	125	Peak
5945.2	59.11	60.81	68.3	-9.19	36.48	7.95	46.13	100	125	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5649.75	58.71	60.68	68.3	-9.59	36.59	7.65	46.21	110	120	Peak
5992.225	58.53	59.84	68.3	-9.77	36.8	8	46.11	110	120	Peak

CH 149





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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	94.39	96.36			36.41	7.79	46.17	100	125	Peak
5785	85.98	87.95			36.41	7.79	46.17	100	125	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	95.11	96.82			36.67	7.79	46.17	115	160	Peak
5785	86.51	88.22			36.67	7.79	46.17	115	160	Average

REMARKS:

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

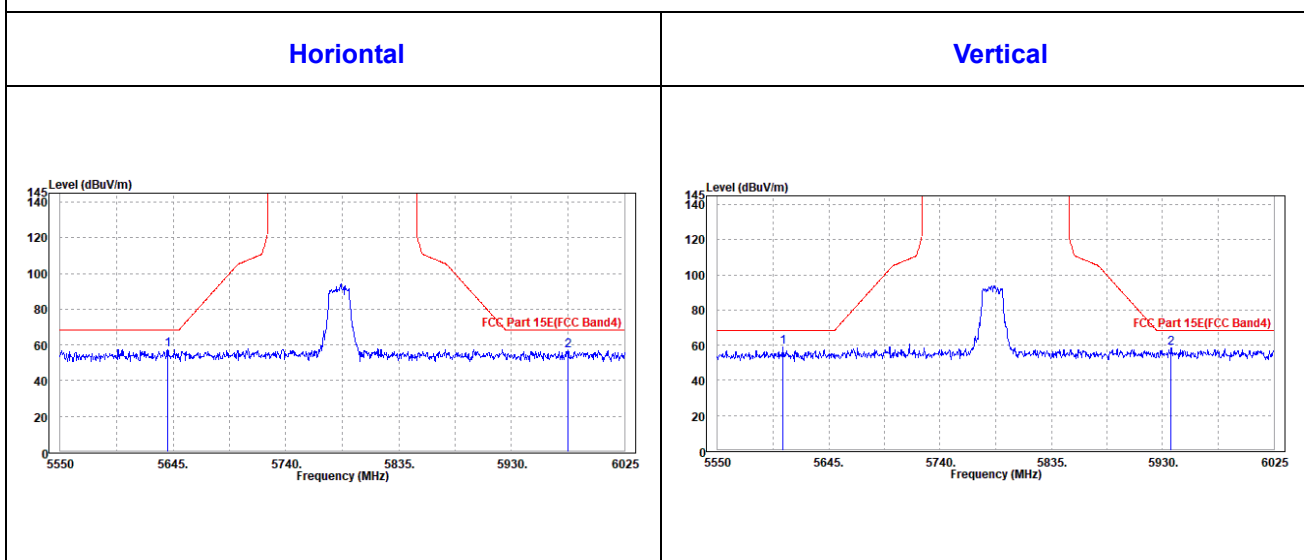


Oobe Data

802.11n (20MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5640.25	57.24	59.45	68.3	-11.06	36.36	7.64	46.21	100	125	Peak
5977.5	56.94	58.58	68.3	-11.36	36.49	7.99	46.12	100	125	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5606.05	58.72	60.77	68.3	-9.58	36.56	7.61	46.22	115	160	Peak
5937.125	58.28	59.7	68.3	-10.02	36.76	7.95	46.13	115	160	Peak

CH 157





CHANNEL	TX Channel 161	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5805	97.72	99.65			36.42	7.81	46.16	100	0	Peak
5805	89.33	91.26			36.42	7.81	46.16	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5805	98.59	100.26			36.68	7.81	46.16	100	360	Peak
5805	86.85	88.52			36.68	7.81	46.16	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5805MHz: Fundamental frequency.

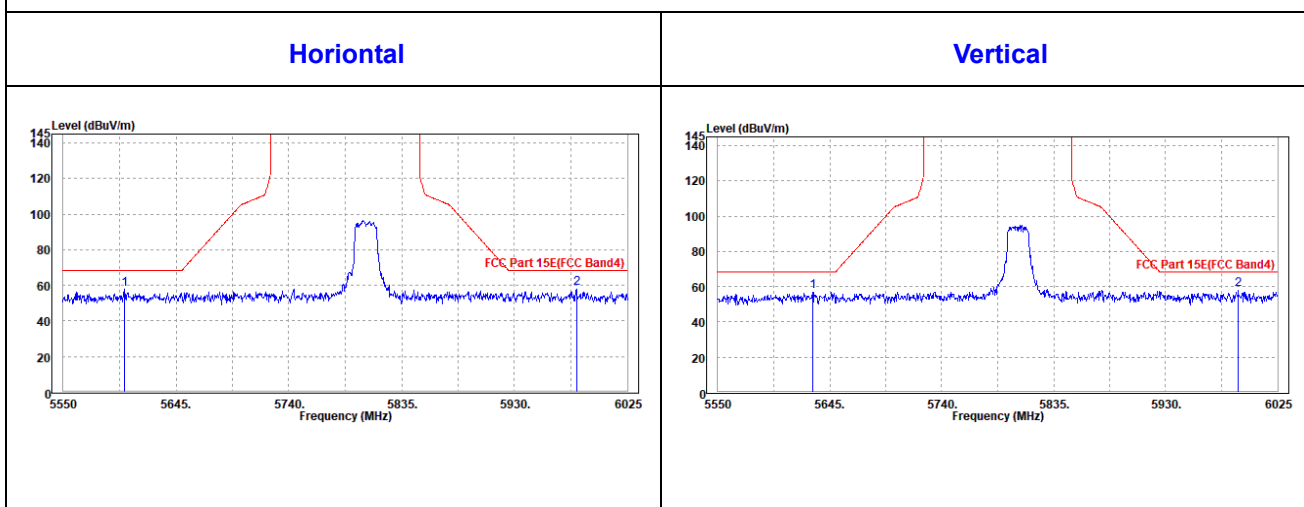


Oobe Data

802.11n (20MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5601.3	57.68	59.96	68.3	-10.62	36.34	7.6	46.22	100	0	Peak
5982.36	58.62	60.25	68.3	-9.68	36.49	7.99	46.11	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5630.25	57.26	59.26	68.3	-11.04	36.58	7.63	46.21	100	360	Peak
5991.66	58.3	59.62	68.3	-10	36.79	8	46.11	100	360	Peak

CH 161





802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	91.11	93.13			36.4	7.76	46.18	105	145	Peak
5755	82.96	84.98			36.4	7.76	46.18	105	145	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	90.79	92.56			36.65	7.76	46.18	110	160	Peak
5755	84.43	86.2			36.65	7.76	46.18	110	160	Average

REMARKS:

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

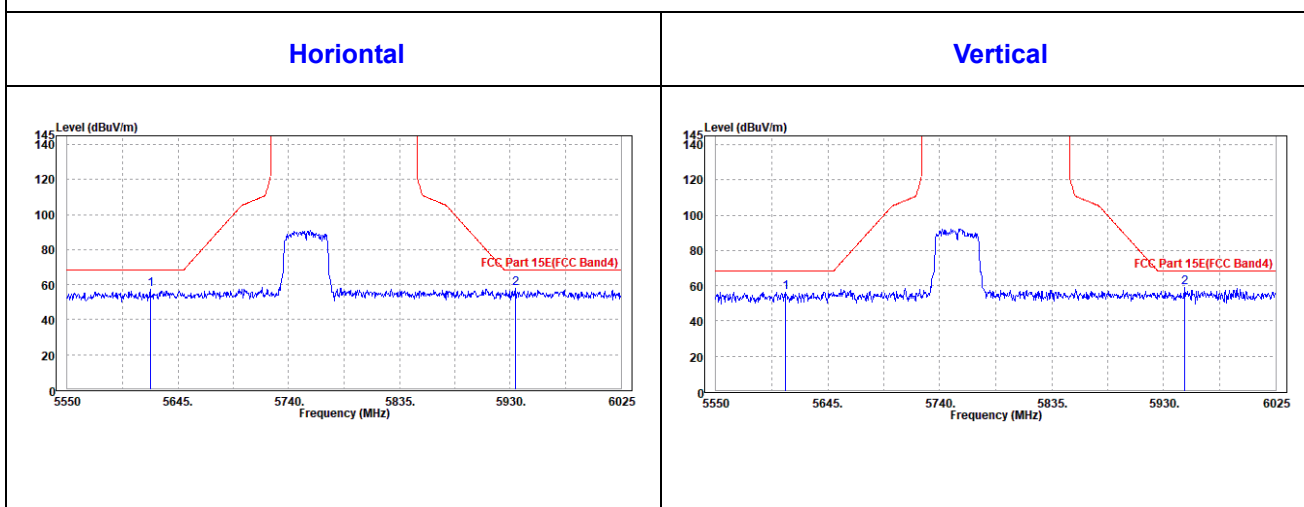


OOBE DATA

802.11n (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5621.25	57.33	59.58	68.3	-10.97	36.35	7.62	46.22	105	145	Peak
5934.275	57.72	59.44	68.3	-10.58	36.47	7.94	46.13	105	145	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5608.9	56.26	58.3	68.3	-12.04	36.57	7.61	46.22	110	160	Peak
5948.05	59.12	60.51	68.3	-9.18	36.77	7.96	46.12	110	160	Peak

CH 151





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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	89.64	91.59			36.42	7.8	46.17	100	120	Peak
5795	82.04	83.99			36.42	7.8	46.17	100	120	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	90.82	92.51			36.68	7.8	46.17	115	160	Peak
5795	84.16	85.85			36.68	7.8	46.17	115	160	Average

REMARKS:

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

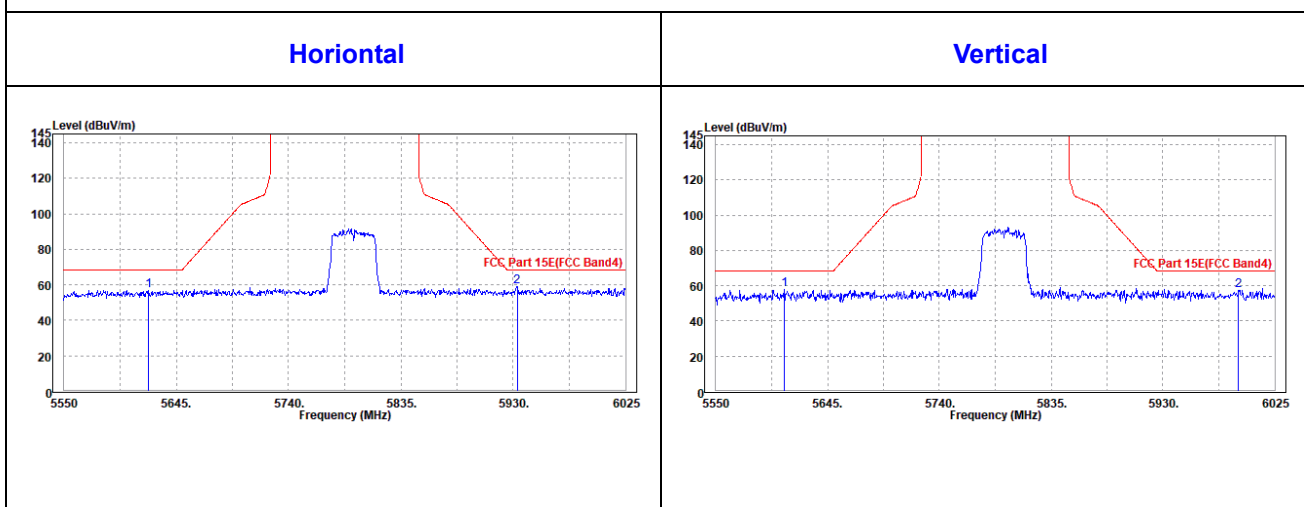


Oobe Data

802.11n (40MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5621.25	56.67	58.92	68.3	-11.63	36.35	7.62	46.22	100	120	Peak
5933.325	58.84	60.56	68.3	-9.46	36.47	7.94	46.13	100	120	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5607.95	57.8	59.85	68.3	-10.5	36.56	7.61	46.22	115	160	Peak
5994.125	57.55	58.86	68.3	-10.75	36.8	8	46.11	115	160	Peak

CH 159





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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	85.65	87.63			36.41	7.78	46.17	100	125	Peak
5775	77.09	79.07			36.41	7.78	46.17	100	125	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	86.19	87.91			36.67	7.78	46.17	115	160	Peak
5775	78.98	80.7			36.67	7.78	46.17	115	160	Average

REMARKS:

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

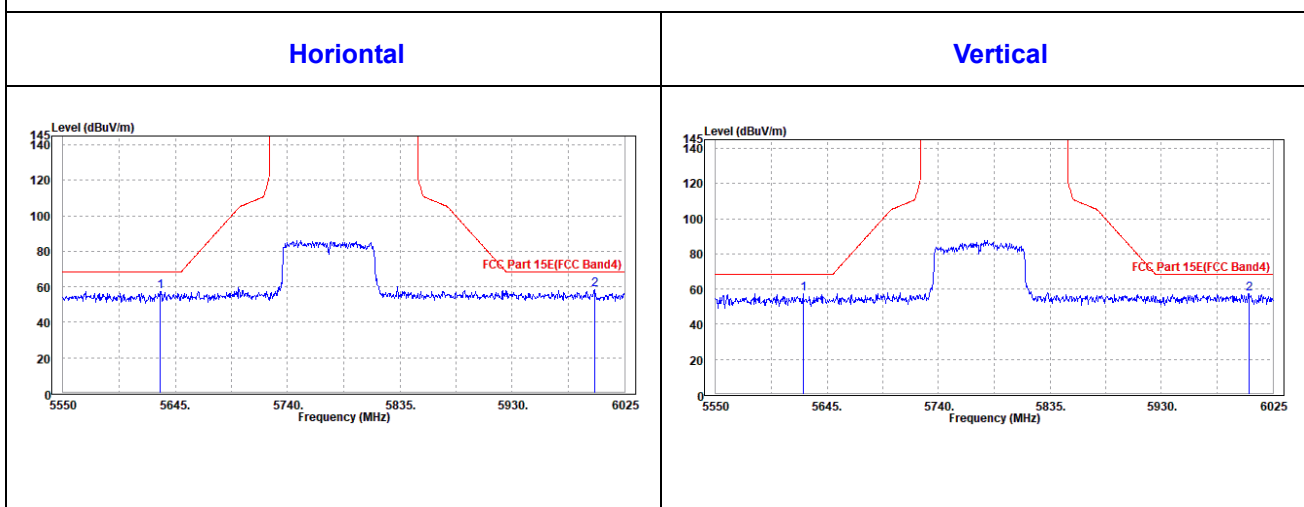


Oobe Data

802.11ac (80MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5632.175	57.22	59.45	68.3	-11.08	36.35	7.63	46.21	100	125	Peak
5999.825	58.19	59.79	68.3	-10.11	36.5	8.01	46.11	100	125	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5624.575	57.27	59.29	68.3	-11.03	36.57	7.63	46.22	115	160	Peak
6004.575	57.46	58.77	68.3	-10.84	36.8	8	46.11	115	160	Peak

CH 155





MIMO MODE:

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.85	58.83	74	-18.15	35.95	7.42	46.35	100	360	Peak
5150	43.22	46.2	54	-10.78	35.95	7.42	46.35	100	360	Average
5180	100.34	103.28			35.98	7.43	46.35	100	360	Peak
5180	88.4	91.34			35.98	7.43	46.35	100	360	Average
5350	55.83	58.51	74	-18.17	36.15	7.47	46.3	100	360	Peak
5350	42.58	45.26	54	-11.42	36.15	7.47	46.3	100	360	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.76	59.4	74	-17.24	36.29	7.42	46.35	100	20	Peak
5150	44.16	46.8	54	-9.84	36.29	7.42	46.35	100	20	Average
5180	102.59	105.2			36.31	7.43	46.35	100	20	Peak
5180	92.79	95.4			36.31	7.43	46.35	100	20	Average
5350	56.71	59.13	74	-17.29	36.41	7.47	46.3	100	20	Peak
5350	43.88	46.3	54	-10.12	36.41	7.47	46.3	100	20	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.64	59.62	74	-17.36	35.95	7.42	46.35	150	50	Peak
5150	43.76	46.74	54	-10.24	35.95	7.42	46.35	150	50	Average
5200	100.99	103.9			36	7.43	46.34	150	50	Peak
5200	91.48	94.39			36	7.43	46.34	150	50	Average
5350	56.5	59.18	74	-17.5	36.15	7.47	46.3	150	50	Peak
5350	43.62	46.3	54	-10.38	36.15	7.47	46.3	150	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.74	59.38	74	-17.26	36.29	7.42	46.35	100	20	Peak
5150	44.12	46.76	54	-9.88	36.29	7.42	46.35	100	20	Average
5200	101.5	104.09			36.32	7.43	46.34	100	20	Peak
5200	92.86	95.45			36.32	7.43	46.34	100	20	Average
5350	56.7	59.12	74	-17.3	36.41	7.47	46.3	100	20	Peak
5350	43.9	46.32	54	-10.1	36.41	7.47	46.3	100	20	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.43	59.41	74	-17.57	35.95	7.42	46.35	150	55	Peak
5150	43.48	46.46	54	-10.52	35.95	7.42	46.35	150	55	Average
5240	102.01	104.86			36.04	7.44	46.33	150	55	Peak
5240	90.58	93.43			36.04	7.44	46.33	150	55	Average
5350	57.53	60.21	74	-16.47	36.15	7.47	46.3	150	55	Peak
5350	43.65	46.33	54	-10.35	36.15	7.47	46.3	150	55	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.61	59.25	74	-17.39	36.29	7.42	46.35	100	20	Peak
5150	43.63	46.27	54	-10.37	36.29	7.42	46.35	100	20	Average
5240	102.42	104.97			36.34	7.44	46.33	100	20	Peak
5240	92.6	95.15			36.34	7.44	46.33	100	20	Average
5350	57.46	59.88	74	-16.54	36.41	7.47	46.3	100	20	Peak
5350	43.92	46.34	54	-10.08	36.41	7.47	46.3	100	20	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.41	59.39	74	-17.59	35.95	7.42	46.35	100	50	Peak
5150	43.54	46.52	54	-10.46	35.95	7.42	46.35	100	50	Average
5180	97.2	100.14			35.98	7.43	46.35	100	50	Peak
5180	84.15	87.09			35.98	7.43	46.35	100	50	Average
5350	56.01	58.69	74	-17.99	36.15	7.47	46.3	100	50	Peak
5350	43.44	46.12	54	-10.56	36.15	7.47	46.3	100	50	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.52	60.16	74	-16.48	36.29	7.42	46.35	100	165	Peak
5150	44.32	46.96	54	-9.68	36.29	7.42	46.35	100	165	Average
5180	99.93	102.54			36.31	7.43	46.35	100	360	Peak
5180	86.97	89.58			36.31	7.43	46.35	100	165	Average
5350	56.6	59.02	74	-17.4	36.41	7.47	46.3	100	165	Peak
5350	43.88	46.3	54	-10.12	36.41	7.47	46.3	100	165	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.49	59.47	74	-17.51	35.95	7.42	46.35	100	310	Peak
5150	43.38	46.36	54	-10.62	35.95	7.42	46.35	100	310	Average
5200	97.63	100.54			36	7.43	46.34	100	310	Peak
5200	85.7	88.61			36	7.43	46.34	100	310	Average
5350	56.06	58.74	74	-17.94	36.15	7.47	46.3	100	310	Peak
5350	43.49	46.17	54	-10.51	36.15	7.47	46.3	100	310	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.38	60.02	74	-16.62	36.29	7.42	46.35	100	360	Peak
5150	43.94	46.58	54	-10.06	36.29	7.42	46.35	100	360	Average
5200	99.22	101.81			36.32	7.43	46.34	100	360	Peak
5200	90.66	93.25			36.32	7.43	46.34	100	360	Average
5350	55.97	58.39	74	-18.03	36.41	7.47	46.3	100	360	Peak
5350	43.37	45.79	54	-10.63	36.41	7.47	46.3	100	360	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.57	58.55	74	-18.43	35.95	7.42	46.35	100	70	Peak
5150	42.98	45.96	54	-11.02	35.95	7.42	46.35	100	70	Average
5240	97.73	100.58			36.04	7.44	46.33	100	70	Peak
5240	88.42	91.27			36.04	7.44	46.33	100	70	Average
5350	56.36	59.04	74	-17.64	36.15	7.47	46.3	100	70	Peak
5350	43.36	46.04	54	-10.64	36.15	7.47	46.3	100	70	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.03	59.67	74	-16.97	36.29	7.42	46.35	100	170	Peak
5150	43.32	45.96	54	-10.68	36.29	7.42	46.35	100	170	Average
5240	95.48	98.03			36.34	7.44	46.33	100	170	Peak
5240	86.25	88.8			36.34	7.44	46.33	100	170	Average
5350	56.24	58.66	74	-17.76	36.41	7.47	46.3	100	170	Peak
5350	43.47	45.89	54	-10.53	36.41	7.47	46.3	100	170	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.22	59.2	74	-17.78	35.95	7.42	46.35	170	75	Peak
5150	43.62	46.6	54	-10.38	35.95	7.42	46.35	170	75	Average
5190	93.18	96.1			35.99	7.43	46.34	170	75	Peak
5190	84.41	87.33			35.99	7.43	46.34	170	75	Average
5350	55.55	58.23	74	-18.45	36.15	7.47	46.3	170	75	Peak
5350	43.3	45.98	54	-10.7	36.15	7.47	46.3	170	75	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.95	59.59	74	-17.05	36.29	7.42	46.35	100	0	Peak
5150	43.95	46.59	54	-10.05	36.29	7.42	46.35	100	0	Average
5190	96.39	98.99			36.31	7.43	46.34	100	0	Peak
5190	86.31	88.91			36.31	7.43	46.34	100	0	Average
5350	56.31	58.73	74	-17.69	36.41	7.47	46.3	100	0	Peak
5350	43.66	46.08	54	-10.34	36.41	7.47	46.3	100	0	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.52	59.5	74	-17.48	35.95	7.42	46.35	100	60	Peak
5150	43.1	46.08	54	-10.9	35.95	7.42	46.35	100	60	Average
5230	91.91	94.77			36.03	7.44	46.33	100	60	Peak
5230	80.45	83.31			36.03	7.44	46.33	100	60	Average
5350	55.71	58.39	74	-18.29	36.15	7.47	46.3	100	60	Peak
5350	43.21	45.89	54	-10.79	36.15	7.47	46.3	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.44	59.08	74	-17.56	36.29	7.42	46.35	100	360	Peak
5150	43.63	46.27	54	-10.37	36.29	7.42	46.35	100	360	Average
5230	96.01	98.56			36.34	7.44	46.33	100	360	Peak
5230	85	87.55			36.34	7.44	46.33	100	360	Average
5350	56.86	59.28	74	-17.14	36.41	7.47	46.3	100	360	Peak
5350	43.54	45.96	54	-10.46	36.41	7.47	46.3	100	360	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.87	58.85	74	-18.13	35.95	7.42	46.35	125	60	Peak
5150	43.22	46.2	54	-10.78	35.95	7.42	46.35	125	60	Average
5210	87.89	90.78			36.01	7.44	46.34	125	60	Peak
5210	81.52	84.41			36.01	7.44	46.34	125	60	Average
5350	56.09	58.77	74	-17.91	36.15	7.47	46.3	125	60	Peak
5350	43.11	45.79	54	-10.89	36.15	7.47	46.3	125	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.36	60	74	-16.64	36.29	7.42	46.35	100	35	Peak
5150	43.82	46.46	54	-10.18	36.29	7.42	46.35	100	35	Average
5210	91.33	93.9			36.33	7.44	46.34	100	35	Peak
5210	82.36	84.93			36.33	7.44	46.34	100	35	Average
5350	55.95	58.37	74	-18.05	36.41	7.47	46.3	100	35	Peak
5350	44.11	46.53	54	-9.89	36.41	7.47	46.3	100	35	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.37	59.35	74	-17.63	35.95	7.42	46.35	100	145	Peak
5150	42.59	45.57	54	-11.41	35.95	7.42	46.35	100	145	Average
5260	98.05	100.86			36.06	7.45	46.32	100	145	Peak
5260	87.08	89.89			36.06	7.45	46.32	100	145	Average
5350	54.87	57.55	74	-19.13	36.15	7.47	46.3	100	145	Peak
5350	42.28	44.96	54	-11.72	36.15	7.47	46.3	100	145	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.41	58.05	74	-18.59	36.29	7.42	46.35	100	155	Peak
5150	42.73	45.37	54	-11.27	36.29	7.42	46.35	100	155	Average
5260	99.13	101.64			36.36	7.45	46.32	100	155	Peak
5260	89.23	91.74			36.36	7.45	46.32	100	155	Average
5350	54.98	57.4	74	-19.02	36.41	7.47	46.3	100	155	Peak
5350	42.29	44.71	54	-11.71	36.41	7.47	46.3	100	155	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.78	58.76	74	-18.22	35.95	7.42	46.35	100	150	Peak
5150	42.92	45.9	54	-11.08	35.95	7.42	46.35	100	150	Average
5300	97.91	100.66			36.1	7.46	46.31	100	150	Peak
5300	87.91	90.66			36.1	7.46	46.31	100	150	Average
5350	55.43	58.11	74	-18.57	36.15	7.47	46.3	100	150	Peak
5350	43.31	45.99	54	-10.69	36.15	7.47	46.3	100	150	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.26	58.9	74	-17.74	36.29	7.42	46.35	100	155	Peak
5150	43.56	46.2	54	-10.44	36.29	7.42	46.35	100	155	Average
5300	98.3	100.77			36.38	7.46	46.31	100	155	Peak
5300	88.42	90.89			36.38	7.46	46.31	100	155	Average
5350	55.45	57.87	74	-18.55	36.41	7.47	46.3	100	155	Peak
5350	43.24	45.66	54	-10.76	36.41	7.47	46.3	100	155	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.57	58.55	74	-18.43	35.95	7.42	46.35	100	130	Peak
5150	42.42	45.4	54	-11.58	35.95	7.42	46.35	100	130	Average
5320	95.87	98.59			36.12	7.46	46.3	100	130	Peak
5320	86.32	89.04			36.12	7.46	46.3	100	130	Average
5350	55.87	58.55	74	-18.13	36.15	7.47	46.3	100	130	Peak
5350	42.43	45.11	54	-11.57	36.15	7.47	46.3	100	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.69	59.33	74	-17.31	36.29	7.42	46.35	100	155	Peak
5150	43.53	46.17	54	-10.47	36.29	7.42	46.35	100	155	Average
5320	97.78	100.23			36.39	7.46	46.3	100	155	Peak
5320	87.96	90.41			36.39	7.46	46.3	100	155	Average
5350	56.24	58.66	74	-17.76	36.41	7.47	46.3	100	155	Peak
5350	43.35	45.77	54	-10.65	36.41	7.47	46.3	100	155	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.33	58.31	74	-18.67	35.95	7.42	46.35	100	135	Peak
5150	42.35	45.33	54	-11.65	35.95	7.42	46.35	100	135	Average
5260	94.58	97.39			36.06	7.45	46.32	100	135	Peak
5260	83.99	86.8			36.06	7.45	46.32	100	135	Average
5350	54.98	57.66	74	-19.02	36.15	7.47	46.3	100	135	Peak
5350	42.65	45.33	54	-11.35	36.15	7.47	46.3	100	135	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.67	58.31	74	-18.33	36.29	7.42	46.35	100	160	Peak
5150	42.69	45.33	54	-11.31	36.29	7.42	46.35	100	160	Average
5260	96.64	99.15			36.36	7.45	46.32	100	160	Peak
5260	84.48	86.99			36.36	7.45	46.32	100	160	Average
5350	55.24	57.66	74	-18.76	36.41	7.47	46.3	100	160	Peak
5350	42.24	44.66	54	-11.76	36.41	7.47	46.3	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.65	58.63	74	-18.35	35.95	7.42	46.35	100	130	Peak
5150	42.54	45.52	54	-11.46	35.95	7.42	46.35	100	130	Average
5300	91.74	94.49			36.1	7.46	46.31	100	130	Peak
5300	81.2	83.95			36.1	7.46	46.31	100	130	Average
5350	55.87	58.55	74	-18.13	36.15	7.47	46.3	100	130	Peak
5350	42.65	45.33	54	-11.35	36.15	7.47	46.3	100	130	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.02	58.66	74	-17.98	36.29	7.42	46.35	100	150	Peak
5150	42.72	45.36	54	-11.28	36.29	7.42	46.35	100	150	Average
5300	95	97.47			36.38	7.46	46.31	100	150	Peak
5300	84.3	86.77			36.38	7.46	46.31	100	150	Average
5350	54.91	57.33	74	-19.09	36.41	7.47	46.3	100	150	Peak
5350	42.57	44.99	54	-11.43	36.41	7.47	46.3	100	150	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.01	58.99	74	-17.99	35.95	7.42	46.35	100	125	Peak
5150	42.9	45.88	54	-11.1	35.95	7.42	46.35	100	125	Average
5320	94.48	97.2			36.12	7.46	46.3	100	125	Peak
5320	83.55	86.27			36.12	7.46	46.3	100	125	Average
5350	55.02	57.7	74	-18.98	36.15	7.47	46.3	100	125	Peak
5350	42.34	45.02	54	-11.66	36.15	7.47	46.3	100	125	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.32	58.96	74	-17.68	36.29	7.42	46.35	100	150	Peak
5150	43.24	45.88	54	-10.76	36.29	7.42	46.35	100	150	Average
5320	95.73	98.18			36.39	7.46	46.3	100	150	Peak
5320	86.34	88.79			36.39	7.46	46.3	100	150	Average
5350	55.09	57.51	74	-18.91	36.41	7.47	46.3	100	150	Peak
5350	42.79	45.21	54	-11.21	36.41	7.47	46.3	100	150	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.9	57.88	74	-19.1	35.95	7.42	46.35	120	125	Peak
5150	42.64	45.62	54	-11.36	35.95	7.42	46.35	120	125	Average
5270	89.47	92.27			36.07	7.45	46.32	120	125	Peak
5270	80.43	83.23			36.07	7.45	46.32	120	125	Average
5350	55.31	57.99	74	-18.69	36.15	7.47	46.3	120	125	Peak
5350	42.18	44.86	54	-11.82	36.15	7.47	46.3	120	125	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.02	58.66	74	-17.98	36.29	7.42	46.35	100	160	Peak
5150	43.22	45.86	54	-10.78	36.29	7.42	46.35	100	160	Average
5270	92.13	94.64			36.36	7.45	46.32	100	160	Peak
5270	84.43	86.94			36.36	7.45	46.32	100	160	Average
5350	55.91	58.33	74	-18.09	36.41	7.47	46.3	100	160	Peak
5350	43.21	45.63	54	-10.79	36.41	7.47	46.3	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.01	57.99	74	-18.99	35.95	7.42	46.35	100	140	Peak
5150	43.01	45.99	54	-10.99	35.95	7.42	46.35	100	140	Average
5310	91.4	94.14			36.11	7.46	46.31	100	140	Peak
5310	79.89	82.63			36.11	7.46	46.31	100	140	Average
5350	56.05	58.73	74	-17.95	36.15	7.47	46.3	100	140	Peak
5350	42.65	45.33	54	-11.35	36.15	7.47	46.3	100	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.28	57.92	74	-18.72	36.29	7.42	46.35	100	160	Peak
5150	42.24	44.88	54	-11.76	36.29	7.42	46.35	100	160	Average
5310	91.52	93.98			36.39	7.46	46.31	100	160	Peak
5310	81.32	83.78			36.39	7.46	46.31	100	160	Average
5350	54.36	56.78	74	-19.64	36.41	7.47	46.3	100	160	Peak
5350	42.14	44.56	54	-11.86	36.41	7.47	46.3	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.41	58.05	74	-18.59	36.29	7.42	46.35	100	160	Peak
5150	42.38	45.02	54	-11.62	36.29	7.42	46.35	100	160	Average
5290	87.5	89.99			36.37	7.45	46.31	100	160	Peak
5290	77.72	80.21			36.37	7.45	46.31	100	160	Average
5350	54.55	56.97	74	-19.45	36.41	7.47	46.3	100	160	Peak
5350	42.08	44.5	54	-11.92	36.41	7.47	46.3	100	160	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.35	57.99	74	-18.65	36.29	7.42	46.35	100	150	Peak
5150	42.56	45.2	54	-11.44	36.29	7.42	46.35	100	150	Average
5290	87	89.49			36.37	7.45	46.31	100	150	Peak
5290	76.52	79.01			36.37	7.45	46.31	100	150	Average
5350	55.04	57.46	74	-18.96	36.41	7.47	46.3	100	150	Peak
5350	42.19	44.61	54	-11.81	36.41	7.47	46.3	100	150	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.72	57.23	74	-19.28	36.26	7.49	46.26	100	140	Peak
5460	42.24	44.75	54	-11.76	36.26	7.49	46.26	100	140	Average
#5470	54.97	57.47	68.3	-13.33	36.27	7.49	46.26	100	140	Peak
5500	96.68	99.13			36.3	7.5	46.25	100	140	Peak
5500	87.2	89.65			36.3	7.5	46.25	100	140	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.77	58.06	74	-18.23	36.48	7.49	46.26	100	120	Peak
5460	42.38	44.67	54	-11.62	36.48	7.49	46.26	100	120	Average
#5470	55.01	57.3	68.3	-13.29	36.48	7.49	46.26	100	120	Peak
5500	98.21	100.46			36.5	7.5	46.25	100	120	Peak
5500	89.07	91.32			36.5	7.5	46.25	100	120	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.27	57.78	74	-18.73	36.26	7.49	46.26	100	315	Peak
5460	42.08	44.59	54	-11.92	36.26	7.49	46.26	100	315	Average
#5470	54.1	56.6	68.3	-14.2	36.27	7.49	46.26	100	315	Peak
5580	107.26	109.58			36.33	7.58	46.23	100	315	Peak
5580	98.29	100.61			36.33	7.58	46.23	100	315	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.05	57.34	74	-18.95	36.48	7.49	46.26	100	150	Peak
5460	41.87	44.16	54	-12.13	36.48	7.49	46.26	100	150	Average
#5470	54.53	56.82	68.3	-13.77	36.48	7.49	46.26	100	150	Peak
5580	98.88	100.98			36.55	7.58	46.23	100	150	Peak
5580	88.65	90.75			36.55	7.58	46.23	100	150	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	103.97	106.08			36.38	7.7	46.19	100	330	Peak
5700	95.46	97.57			36.38	7.7	46.19	100	330	Average
#5725	57.72	59.79	68.3	-10.58	36.39	7.73	46.19	100	330	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	97.99	99.86			36.62	7.7	46.19	110	160	Peak
5700	89.84	91.71			36.62	7.7	46.19	110	160	Average
#5725	57.25	59.08	68.3	-11.05	36.63	7.73	46.19	110	160	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.68	59.19	74	-17.32	36.26	7.49	46.26	100	320	Peak
5460	42.8	45.31	54	-11.2	36.26	7.49	46.26	100	320	Average
#5470	55.48	57.98	68.3	-12.82	36.27	7.49	46.26	100	320	Peak
5500	99.85	102.3			36.3	7.5	46.25	100	320	Peak
5500	91.06	93.51			36.3	7.5	46.25	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.18	57.47	74	-18.82	36.48	7.49	46.26	100	125	Peak
5460	42.39	44.68	54	-11.61	36.48	7.49	46.26	100	125	Average
#5470	55.27	57.56	68.3	-13.03	36.48	7.49	46.26	100	125	Peak
5500	96.22	98.47			36.5	7.5	46.25	100	125	Peak
5500	84.99	87.24			36.5	7.5	46.25	100	125	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.39	57.9	74	-18.61	36.26	7.49	46.26	100	330	Peak
5460	41.97	44.48	54	-12.03	36.26	7.49	46.26	100	330	Average
#5470	55.18	57.68	68.3	-13.12	36.27	7.49	46.26	100	330	Peak
5580	105.42	107.74			36.33	7.58	46.23	100	330	Peak
5580	93.36	95.68			36.33	7.58	46.23	100	330	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.4	57.69	74	-18.6	36.48	7.49	46.26	100	160	Peak
5460	41.82	44.11	54	-12.18	36.48	7.49	46.26	100	160	Average
#5470	54.08	56.37	68.3	-14.22	36.48	7.49	46.26	100	160	Peak
5580	97.45	99.55			36.55	7.58	46.23	100	160	Peak
5580	88.35	90.45			36.55	7.58	46.23	100	160	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5580MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	103.83	105.94			36.38	7.7	46.19	120	330	Peak
5700	89.47	91.58			36.38	7.7	46.19	120	330	Average
#5725	58.86	60.93	68.3	-9.44	36.39	7.73	46.19	120	330	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5700	96.4	98.27			36.62	7.7	46.19	100	110	Peak
5700	81.55	83.42			36.62	7.7	46.19	100	110	Average
#5725	58.14	59.97	68.3	-10.16	36.63	7.73	46.19	100	110	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.78	58.29	74	-18.22	36.26	7.49	46.26	100	300	Peak
5460	43.7	46.21	54	-10.3	36.26	7.49	46.26	100	300	Average
#5470	57.76	60.26	68.3	-10.54	36.27	7.49	46.26	100	300	Peak
5510	98.79	101.23			36.3	7.51	46.25	100	300	Peak
5510	90.87	93.31			36.3	7.51	46.25	100	300	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.79	58.08	74	-18.21	36.48	7.49	46.26	100	320	Peak
5460	43.18	45.47	54	-10.82	36.48	7.49	46.26	100	320	Average
#5470	55.03	57.32	68.3	-13.27	36.48	7.49	46.26	100	320	Peak
5510	93.19	95.42			36.51	7.51	46.25	100	320	Peak
5510	83.59	85.82			36.51	7.51	46.25	100	320	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5510MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.97	58.48	74	-18.03	36.26	7.49	46.26	110	315	Peak
5460	43.26	45.77	54	-10.74	36.26	7.49	46.26	110	315	Average
#5470	55.98	58.48	68.3	-12.32	36.27	7.49	46.26	110	315	Peak
5550	100.13	102.5			36.32	7.55	46.24	110	315	Peak
5550	92.36	94.73			36.32	7.55	46.24	110	315	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.55	57.84	74	-18.45	36.48	7.49	46.26	100	165	Peak
5460	42.63	44.92	54	-11.37	36.48	7.49	46.26	100	165	Average
#5470	55.45	57.74	68.3	-12.85	36.48	7.49	46.26	100	165	Peak
5550	93.93	96.09			36.53	7.55	46.24	100	165	Peak
5550	83.64	85.8			36.53	7.55	46.24	100	165	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5550MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	98.47	100.63			36.37	7.67	46.2	110	330	Peak
5670	90.09	92.25			36.37	7.67	46.2	110	330	Average
#5725	57.7	59.77	68.3	-10.6	36.39	7.73	46.19	110	330	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5670	91.28	93.21			36.6	7.67	46.2	100	155	Peak
5670	85.46	87.39			36.6	7.67	46.2	100	155	Average
#5725	58.33	60.16	68.3	-9.97	36.63	7.73	46.19	100	155	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5670MHz: Fundamental frequency.
3. #: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	56.85	59.36	74	-17.15	36.26	7.49	46.26	100	320	Peak
5460	43.31	45.82	54	-10.69	36.26	7.49	46.26	100	320	Average
#5470	55.19	57.69	68.3	-13.11	36.27	7.49	46.26	100	320	Peak
5530	92.94	95.34			36.31	7.53	46.24	100	320	Peak
5530	82.04	84.44			36.31	7.53	46.24	100	320	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.19	57.48	74	-18.81	36.48	7.49	46.26	100	160	Peak
5460	42.63	44.92	54	-11.37	36.48	7.49	46.26	100	160	Average
#5470	55.49	57.78	68.3	-12.81	36.48	7.49	46.26	100	160	Peak
5530	86.22	88.41			36.52	7.53	46.24	100	160	Peak
5530	78.02	80.21			36.52	7.53	46.24	100	160	Average

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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5610	95.98	98.25			36.34	7.61	46.22	120	325	Peak
5610	86.3	88.57			36.34	7.61	46.22	120	325	Average
#5725	58.17	60.24	68.3	-10.13	36.39	7.73	46.19	120	325	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5610	89.19	91.23			36.57	7.61	46.22	100	160	Peak
5610	80.16	82.2			36.57	7.61	46.22	100	160	Average
#5725	58.71	60.54	68.3	-9.59	36.63	7.73	46.19	100	160	Peak

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5610MHz: 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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	105.67	107.7			36.4	7.75	46.18	100	315	Peak
5745	97.38	99.41			36.4	7.75	46.18	100	315	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	98.37	100.15			36.65	7.75	46.18	110	120	Peak
5745	88.73	90.51			36.65	7.75	46.18	110	120	Average

REMARKS:

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

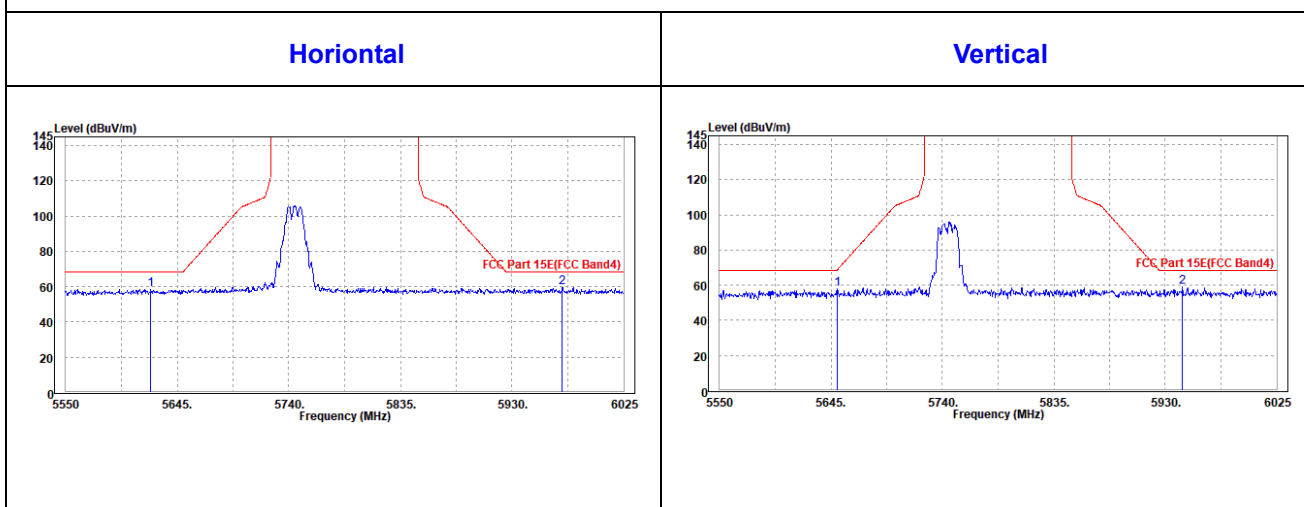


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802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5622.675	58.59	60.83	68.3	-9.71	36.35	7.63	46.22	100	315	Peak
5972.75	59.79	61.44	68.3	-8.51	36.49	7.98	46.12	100	315	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5650.225	57.92	59.89	68.47	-10.55	36.59	7.65	46.21	110	120	Peak
5944.725	58.82	60.23	68.3	-9.48	36.77	7.95	46.13	110	120	Peak

CH 149





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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	105.52	107.49			36.41	7.79	46.17	100	330	Peak
5785	94.21	96.18			36.41	7.79	46.17	100	330	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	97.55	99.26			36.67	7.79	46.17	100	310	Peak
5785	88.08	89.79			36.67	7.79	46.17	100	310	Average

REMARKS:

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

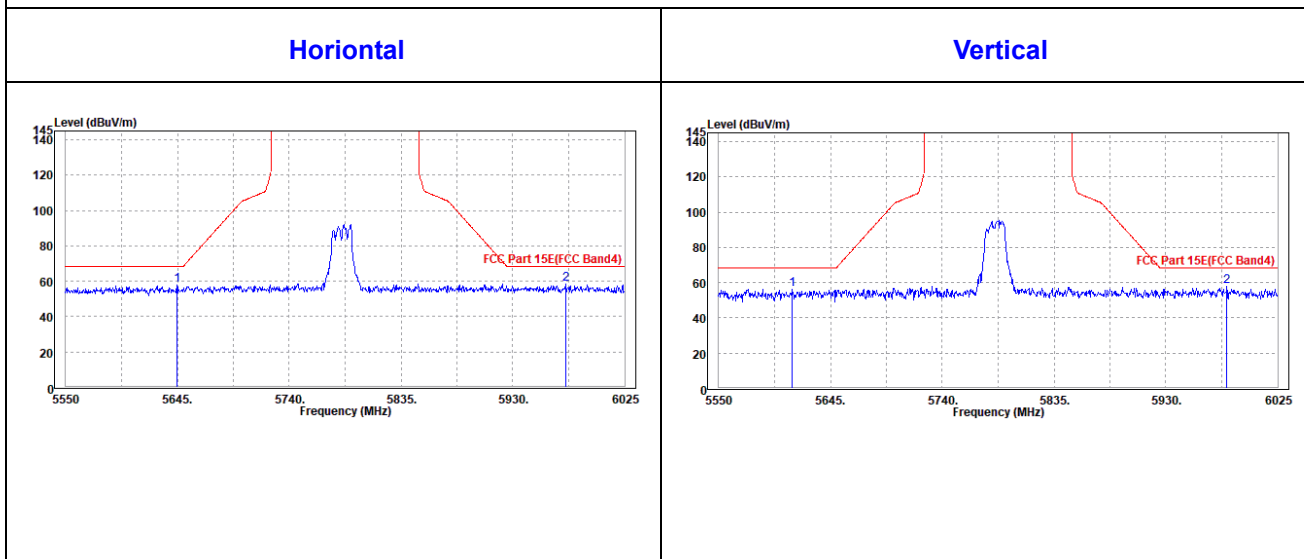


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802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5644.525	57.67	59.87	68.3	-10.63	36.36	7.65	46.21	100	330	Peak
5974.65	58.37	60.02	68.3	-9.93	36.49	7.98	46.12	100	330	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5612.7	56.42	58.46	68.3	-11.88	36.57	7.61	46.22	100	310	Peak
5981.775	58.06	59.4	68.3	-10.24	36.79	7.99	46.12	100	310	Peak

CH 157





CHANNEL	TX Channel 161	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5805	101.18	103.11			36.42	7.81	46.16	100	0	Peak
5805	91.59	93.52			36.42	7.81	46.16	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5805	100.88	102.55			36.68	7.81	46.16	100	360	Peak
5805	89.66	91.33			36.68	7.81	46.16	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5805MHz: Fundamental frequency.

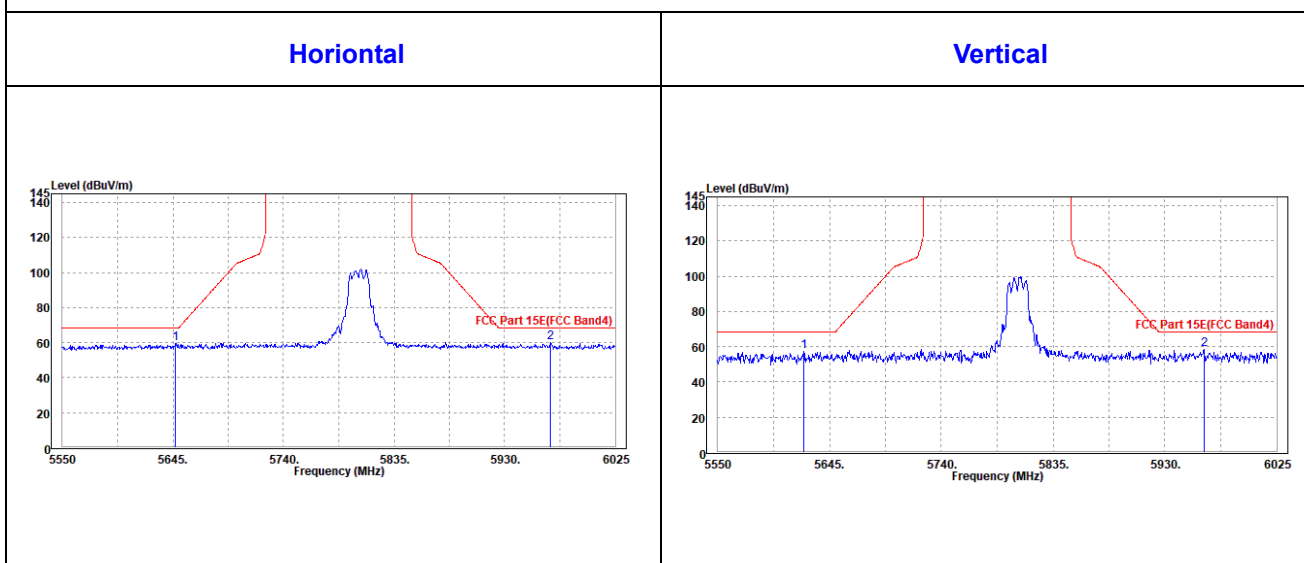


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802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5647.375	59.46	61.66	68.3	-8.84	36.36	7.65	46.21	100	360	Peak
5969.425	60.32	61.97	68.3	-7.98	36.49	7.98	46.12	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5623.15	57.39	59.41	68.3	-10.91	36.57	7.63	46.22	100	360	Peak
5963.25	58.67	60.04	68.3	-9.63	36.78	7.97	46.12	100	360	Peak

CH 161





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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	105.18	107.21			36.4	7.75	46.18	100	325	Peak
5745	94.15	96.18			36.4	7.75	46.18	100	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	95.76	97.54			36.65	7.75	46.18	100	320	Peak
5745	85.79	87.57			36.65	7.75	46.18	100	320	Average

REMARKS:

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



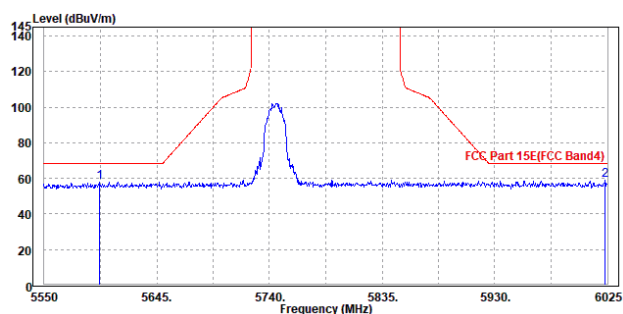
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802.11n (20MHz)

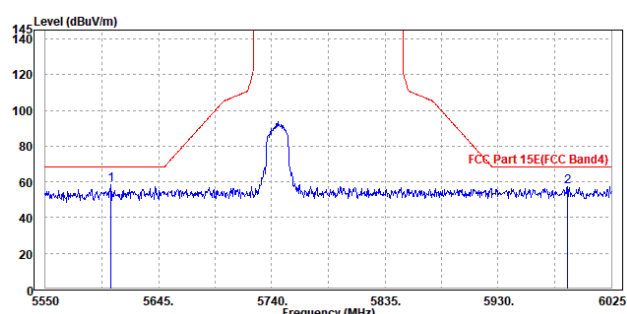
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FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5597.025	58.04	60.32	68.3	-10.26	36.34	7.6	46.22	100	325	Peak
6023.1	59.21	60.82	68.3	-9.09	36.52	7.97	46.1	100	325	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5604.625	58.25	60.3	68.3	-10.05	36.56	7.61	46.22	100	320	Peak
5987.95	57.37	58.69	68.3	-10.93	36.79	8	46.11	100	320	Peak

CH 149

Horizontal



Vertical





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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	103.43	105.4			36.41	7.79	46.17	110	325	Peak
5785	88.53	90.5			36.41	7.79	46.17	110	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	95.56	97.27			36.67	7.79	46.17	100	320	Peak
5785	82.01	83.72			36.67	7.79	46.17	100	320	Average

REMARKS:

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

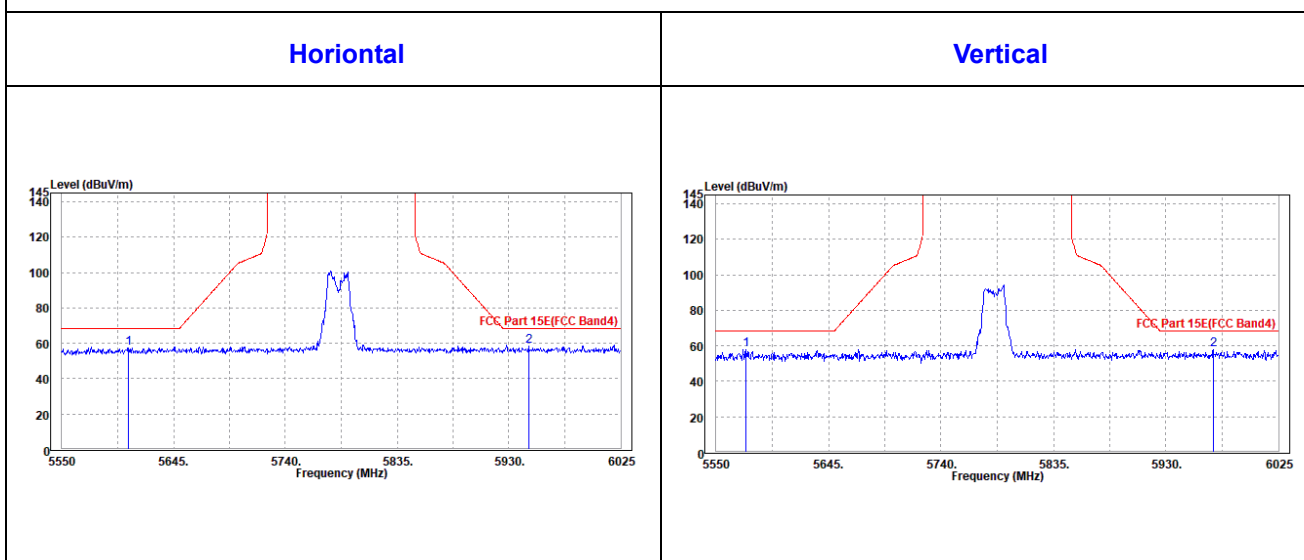


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802.11n (20MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5606.525	57.54	59.81	68.3	-10.76	36.34	7.61	46.22	110	325	Peak
5946.625	58.36	60.04	68.3	-9.94	36.48	7.96	46.12	110	325	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5575.175	57.92	60.02	68.3	-10.38	36.55	7.58	46.23	100	320	Peak
5969.9	57.88	59.24	68.3	-10.42	36.78	7.98	46.12	100	320	Peak

CH 157





CHANNEL	TX Channel 161	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5805	100.72	102.65			36.42	7.81	46.16	100	0	Peak
5805	89.73	91.66			36.42	7.81	46.16	100	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5805	99.95	101.62			36.68	7.81	46.16	100	360	Peak
5805	88.98	90.65			36.68	7.81	46.16	100	360	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5805MHz: Fundamental frequency.



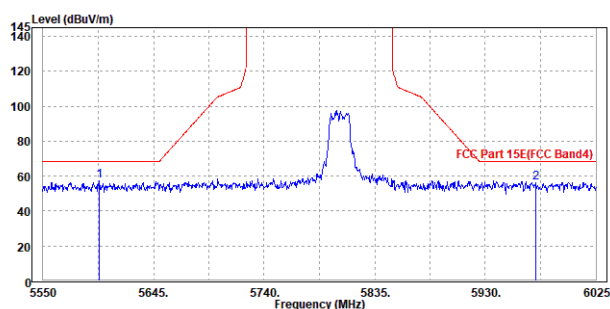
OOBE DATA

802.11n (20MHZ)

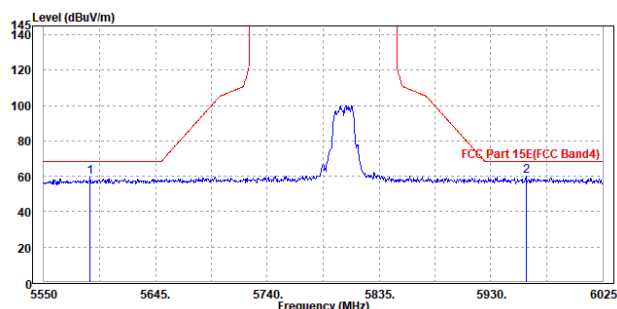
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5597.975	57.3	59.58	68.3	-11	36.34	7.6	46.22	100	0	Peak
5973.7	56.26	57.91	68.3	-12.04	36.49	7.98	46.12	100	0	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5589.425	59.38	61.46	68.3	-8.92	36.55	7.59	46.22	100	360	Peak
5959.925	59.89	61.26	68.3	-8.41	36.78	7.97	46.12	100	360	Peak

CH 161

Horizontal



Vertical





802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	99.47	101.49			36.4	7.76	46.18	110	325	Peak
5755	90.93	92.95			36.4	7.76	46.18	110	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	90.12	91.89			36.65	7.76	46.18	100	320	Peak
5755	83.01	84.78			36.65	7.76	46.18	100	320	Average

REMARKS:

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

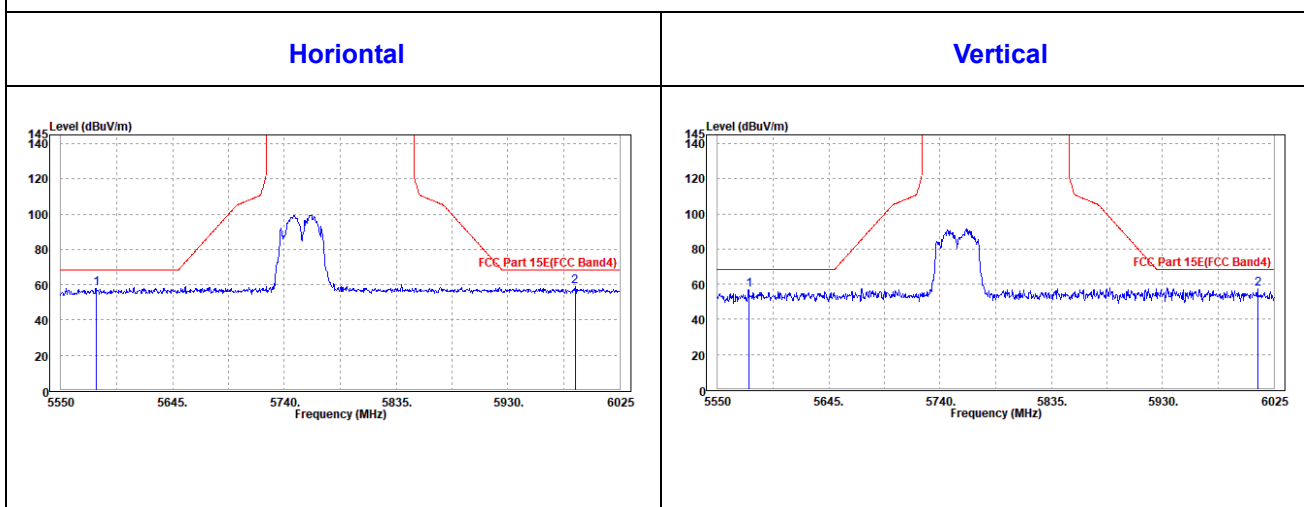


OOBE DATA

802.11n (40MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5579.925	57.91	60.23	68.3	-10.39	36.33	7.58	46.23	110	325	Peak
5987	59.15	60.77	68.3	-9.15	36.49	8	46.11	110	325	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5576.6	57.04	59.14	68.3	-11.26	36.55	7.58	46.23	100	320	Peak
6011.225	57.27	58.58	68.3	-11.03	36.81	7.99	46.11	100	320	Peak

CH 151





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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	98.07	100.02			36.42	7.8	46.17	100	325	Peak
5795	90.84	92.79			36.42	7.8	46.17	100	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	91.01	92.7			36.68	7.8	46.17	100	320	Peak
5795	82.91	84.6			36.68	7.8	46.17	100	320	Average

REMARKS:

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



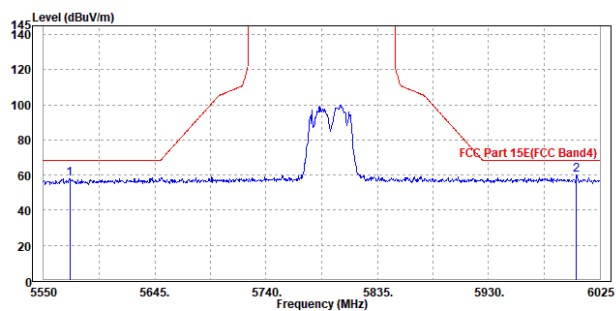
Oobe DATA

802.11n (40MHZ)

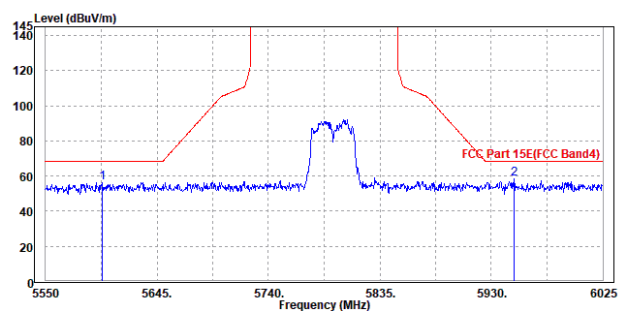
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5572.325	58.14	60.47	68.3	-10.16	36.33	7.57	46.23	100	325	Peak
6005.05	59.95	61.56	68.3	-8.35	36.5	8	46.11	100	325	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5597.975	56.43	58.49	68.3	-11.87	36.56	7.6	46.22	100	320	Peak
5949.475	58.25	59.64	68.3	-10.05	36.77	7.96	46.12	100	320	Peak

CH 159

Horizontal



Vertical





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										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	94.08	96.06			36.41	7.78	46.17	100	325	Peak
5775	85.7	87.68			36.41	7.78	46.17	100	325	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5775	86.25	87.97			36.67	7.78	46.17	100	320	Peak
5775	77.87	79.59			36.67	7.78	46.17	100	320	Average

REMARKS:

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

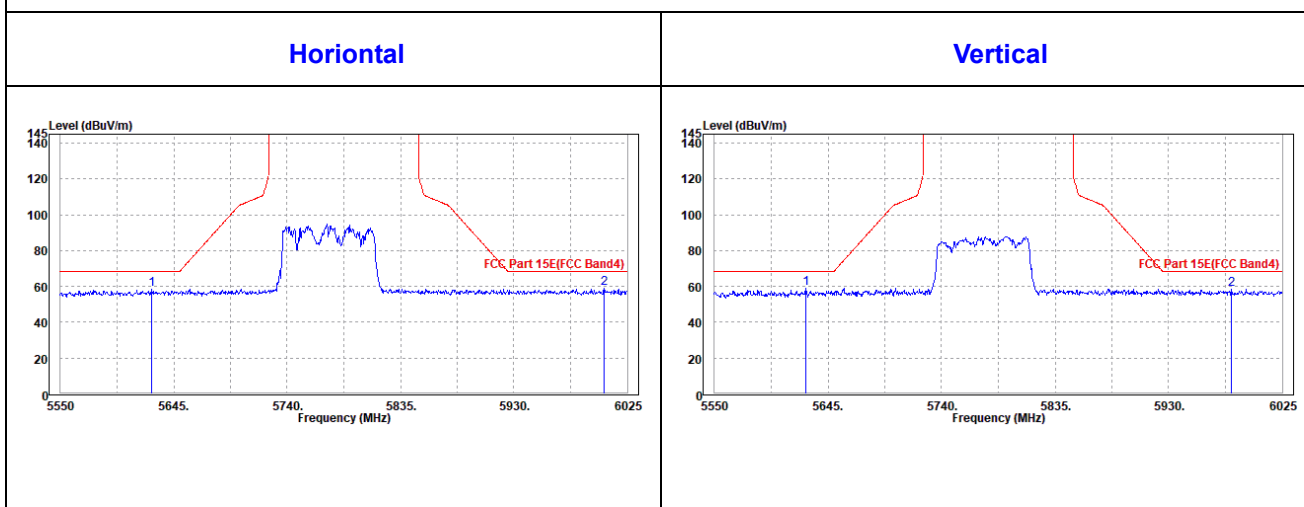


OOBE DATA

802.11ac (80MHZ)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5626.475	58.67	60.9	68.3	-9.63	36.35	7.63	46.21	100	325	Peak
6005.525	59.25	60.86	68.3	-9.05	36.5	8	46.11	100	325	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5626.475	58.9	60.9	68.3	-9.4	36.58	7.63	46.21	100	320	Peak
5982.725	58.65	59.98	68.3	-9.65	36.79	7.99	46.11	100	320	Peak

CH 155



3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 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.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 26,20	Feb. 25,21
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 26,20	Feb. 25,21

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, GREGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

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

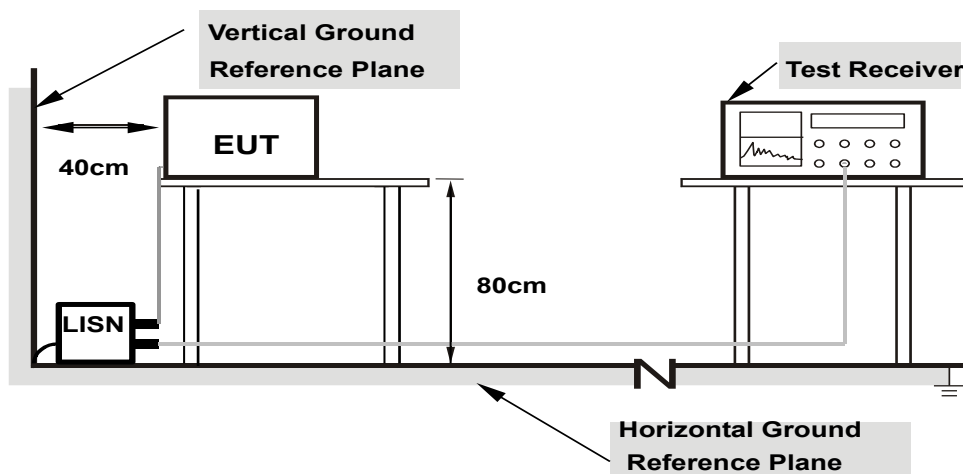
NOTE: All modes of operation were investigated and the worst-case emissions are reported.



3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 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).

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

3.2.7 TEST RESULTS

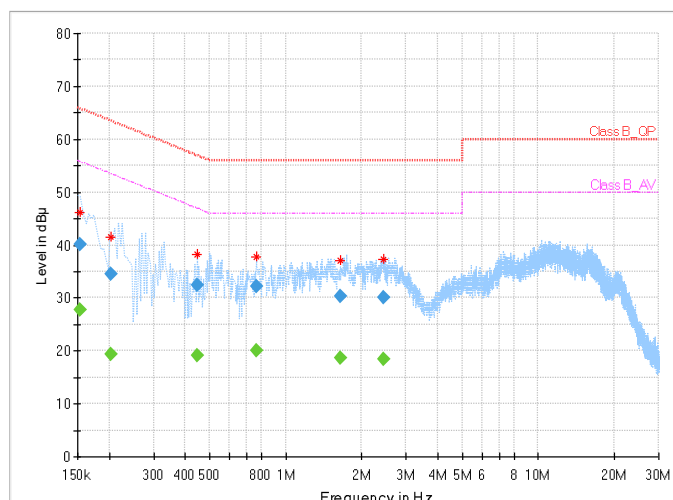
CONDUCTED WORST-CASE DATA :

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 52RH
Tested By	Chase Zhou		

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.154000	---	27.78	55.78	-28.00	L1	ON	9.9
0.154000	40.16	---	65.78	-25.62	L1	ON	9.9
0.204000	---	19.41	53.45	-34.04	L1	ON	9.9
0.204000	34.63	---	63.45	-28.81	L1	ON	9.9
0.448000	---	19.20	46.91	-27.71	L1	ON	10.0
0.448000	32.36	---	56.91	-24.56	L1	ON	10.0
0.768000	---	20.09	46.00	-25.91	L1	ON	10.1
0.768000	32.21	---	56.00	-23.79	L1	ON	10.1
1.652000	---	18.76	46.00	-27.24	L1	ON	10.1
1.652000	30.43	---	56.00	-25.57	L1	ON	10.1
2.428000	---	18.33	46.00	-27.67	L1	ON	10.1
2.428000	30.02	---	56.00	-25.98	L1	ON	10.1

- 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

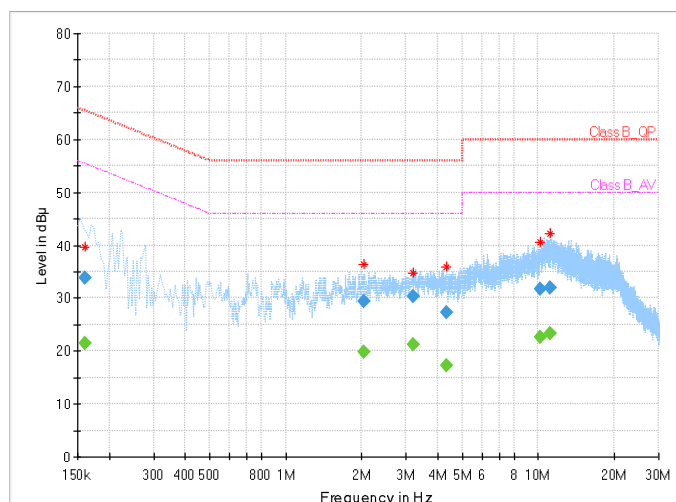


Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25deg. C, 52RH
Tested By	Chase Zhou		

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.160000	---	21.40	55.46	-34.06	N	ON	9.9
0.160000	33.92	---	65.46	-31.54	N	ON	9.9
2.032000	---	19.73	46.00	-26.27	N	ON	10.0
2.032000	29.31	---	56.00	-26.69	N	ON	10.0
3.204000	---	21.12	46.00	-24.88	N	ON	10.1
3.204000	30.23	---	56.00	-25.77	N	ON	10.1
4.352000	---	17.21	46.00	-28.79	N	ON	10.1
4.352000	27.21	---	56.00	-28.79	N	ON	10.1
10.228000	---	22.58	50.00	-27.42	N	ON	10.3
10.228000	31.65	---	60.00	-28.35	N	ON	10.3
11.120000	---	23.42	50.00	-26.58	N	ON	10.3
11.120000	31.96	---	60.00	-28.04	N	ON	10.3

- 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





3.3 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

3.3.1 LIMITS OF MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

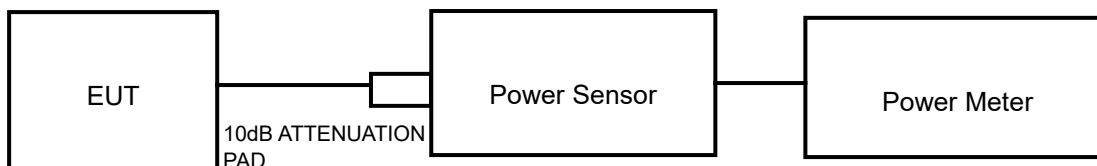
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client devices	250mW (24 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.

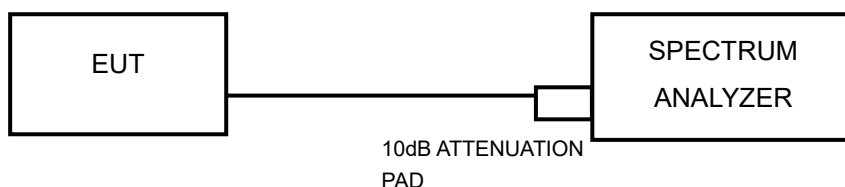
3.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT

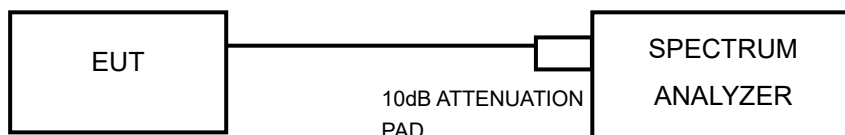
802.11a, 802.11n (20MHz), 802.11n (40MHz) TEST CONFIGURATION



11ac TEST CONFIGURATION



FOR 26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 26,20	Feb. 25,21
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 26,20	Feb. 25,21
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	Feb. 26,20	Feb. 25,21
Power Sensor	ANRITSU	MA2411B	1339352	Feb. 26,20	Feb. 25,21

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.

3.3.4 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.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

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



3.3.7 TEST RESULTS

OUTPUT POWER:

SISO MODE:

ANT0

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	14.45	0.08	14.53	28.38	24	PASS
40	5200	14.78	0.08	14.86	30.62	24	PASS
48	5240	15.58	0.08	15.66	36.81	24	PASS
52	5260	15.72	0.08	15.80	38.02	24	PASS
60	5300	15.61	0.08	15.69	37.07	24	PASS
64	5320	15.71	0.08	15.79	37.93	24	PASS
100	5500	14.84	0.08	14.92	31.05	24	PASS
116	5580	15.16	0.08	15.24	33.42	24	PASS
140	5700	14.54	0.08	14.62	28.97	24	PASS
149	5745	15.05	0.08	15.13	32.58	30	PASS
157	5785	15.27	0.08	15.35	34.28	30	PASS
161	5805	15.25	0.08	15.33	34.12	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	13.32	0.08	13.40	21.88	24	PASS
40	5200	13.68	0.08	13.76	23.77	24	PASS
48	5240	14.54	0.08	14.62	28.97	24	PASS
52	5260	14.54	0.08	14.62	28.97	24	PASS
60	5300	14.56	0.08	14.64	29.11	24	PASS
64	5320	14.52	0.08	14.60	28.84	24	PASS
100	5500	13.66	0.08	13.74	23.66	24	PASS
116	5580	14.25	0.08	14.33	27.10	24	PASS
140	5700	13.61	0.08	13.69	23.39	24	PASS
149	5745	12.42	0.08	12.50	17.78	30	PASS
157	5785	12.45	0.08	12.53	17.91	30	PASS
161	5805	12.34	0.08	12.42	17.46	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	13.62	0.16	13.78	23.88	24	PASS
46	5230	14.23	0.16	14.39	27.48	24	PASS
54	5270	14.42	0.16	14.58	28.71	24	PASS
62	5310	14.45	0.16	14.61	28.91	24	PASS
102	5510	13.52	0.16	13.68	23.33	24	PASS
110	5550	13.76	0.16	13.92	24.66	24	PASS
134	5670	13.77	0.16	13.93	24.72	24	PASS
151	5755	13.86	0.16	14.02	25.23	30	PASS
159	5798	14.03	0.16	14.19	26.24	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	11.95	0.34	12.29	16.94	24	PASS
58	5290	12.66	0.34	13.00	19.95	24	PASS
106	5530	11.85	0.34	12.19	16.56	24	PASS
122	5610	12.28	0.34	12.62	18.28	24	PASS
155	5775	11.38	0.34	11.72	14.86	30	PASS

**ANT1****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	14.08	0.08	14.16	26.06	24	PASS
40	5200	14.33	0.08	14.41	27.61	24	PASS
48	5240	14.88	0.08	14.96	31.33	24	PASS
52	5260	14.96	0.08	15.04	31.92	24	PASS
60	5300	14.91	0.08	14.99	31.55	24	PASS
64	5320	14.25	0.08	14.33	27.10	24	PASS
100	5500	14.50	0.08	14.58	28.71	24	PASS
116	5580	13.89	0.08	13.97	24.95	24	PASS
140	5700	14.10	0.08	14.18	26.18	24	PASS
149	5745	15.21	0.08	15.29	33.81	30	PASS
157	5785	15.42	0.08	15.50	35.48	30	PASS
161	5805	15.39	0.08	15.47	35.24	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	12.88	0.08	12.96	19.77	24	PASS
40	5200	13.15	0.08	13.23	21.04	24	PASS
48	5240	13.76	0.08	13.84	24.21	24	PASS
52	5260	13.82	0.08	13.90	24.55	24	PASS
60	5300	13.74	0.08	13.82	24.10	24	PASS
64	5320	13.16	0.08	13.24	21.09	24	PASS
100	5500	13.62	0.08	13.70	23.44	24	PASS
116	5580	13.06	0.08	13.14	20.61	24	PASS
140	5700	13.11	0.08	13.19	20.84	24	PASS
149	5745	12.56	0.08	12.64	18.37	30	PASS
157	5785	12.62	0.08	12.70	18.62	30	PASS
161	5805	12.43	0.08	12.51	17.82	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	13.43	0.16	13.59	22.86	24	PASS
46	5230	13.78	0.16	13.94	24.77	24	PASS
54	5270	14.15	0.16	14.31	26.98	24	PASS
62	5310	14.05	0.16	14.21	26.36	24	PASS
102	5510	13.84	0.16	14.00	25.12	24	PASS
110	5550	13.35	0.16	13.51	22.44	24	PASS
134	5670	13.16	0.16	13.32	21.48	24	PASS
151	5755	13.76	0.16	13.92	24.66	30	PASS
159	5798	13.72	0.16	13.88	24.43	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	11.28	0.34	11.62	14.52	24	PASS
58	5290	11.85	0.34	12.19	16.56	24	PASS
106	5530	11.38	0.34	11.72	14.86	24	PASS
122	5610	11.35	0.34	11.69	14.76	24	PASS
155	5775	11.52	0.34	11.86	15.35	30	PASS



MIMO MODE:

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
		ANT 0	ANT 1						
36	5180	14.12	13.76	16.95	0.08	17.03	50.47	24	PASS
40	5200	14.53	14.06	17.31	0.08	17.39	54.83	24	PASS
48	5240	15.25	14.48	17.89	0.08	17.97	62.66	24	PASS
52	5260	15.42	14.53	18.01	0.08	18.09	64.42	24	PASS
60	5300	15.29	14.36	17.86	0.08	17.94	62.23	24	PASS
64	5320	15.45	13.78	17.71	0.08	17.79	60.12	24	PASS
100	5500	14.30	13.94	17.13	0.08	17.21	52.60	24	PASS
116	5580	14.55	13.10	16.90	0.08	16.98	49.89	24	PASS
140	5700	14.06	13.55	16.82	0.08	16.90	48.98	24	PASS
149	5745	14.78	14.91	17.86	0.08	17.94	62.23	30	PASS
157	5785	15.06	15.12	18.10	0.08	18.18	65.77	30	PASS
161	5805	15.08	15.05	18.08	0.08	18.16	65.46	30	PASS

802.11n (20MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
		ANT 0	ANT 1						
36	5180	13.15	12.62	15.90	0.08	15.98	39.63	24	PASS
40	5200	13.48	12.93	16.22	0.08	16.30	42.66	24	PASS
48	5240	14.23	13.36	16.83	0.08	16.91	49.09	24	PASS
52	5260	14.21	13.37	16.82	0.08	16.90	48.98	24	PASS
60	5300	14.18	13.32	16.78	0.08	16.86	48.53	24	PASS
64	5320	14.18	12.65	16.49	0.08	16.57	45.39	24	PASS
100	5500	13.34	13.18	16.27	0.08	16.35	43.15	24	PASS
116	5580	13.88	12.64	16.31	0.08	16.39	43.55	24	PASS
140	5700	13.45	12.66	16.08	0.08	16.16	41.30	24	PASS
149	5745	12.25	12.02	15.15	0.08	15.23	33.34	30	PASS
157	5785	12.18	12.15	15.18	0.08	15.26	33.57	30	PASS
161	5805	12.15	12.18	15.18	0.08	15.26	33.57	30	PASS



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
		ANT 0	ANT 1						
38	5190	13.62	13.15	16.40	0.16	16.56	45.29	24	PASS
46	5230	14.23	13.56	16.92	0.16	17.08	51.05	24	PASS
54	5270	14.42	13.64	17.06	0.16	17.22	52.72	24	PASS
62	5310	14.45	13.72	17.11	0.16	17.27	53.33	24	PASS
102	5510	13.52	13.53	16.54	0.16	16.70	46.77	24	PASS
110	5550	13.76	12.87	16.35	0.16	16.51	44.77	24	PASS
134	5670	13.77	12.76	16.30	0.16	16.46	44.26	24	PASS
151	5755	13.75	13.46	16.62	0.16	16.78	47.64	30	PASS
159	5798	13.75	13.38	16.58	0.16	16.74	47.21	30	PASS

802.11ac (80MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL AVERAGE POWER (dBm)	Duty Factor	FINAL AVERAGE POWER (dBm)	FINAL AVERAGE POWER (mW)	POWER LIMIT (dBm)	PASS/FAIL
		ANT 0	ANT 1						
42	5210	11.75	11.12	14.46	0.34	14.80	30.20	24	PASS
58	5290	12.43	11.49	15.00	0.34	15.34	34.20	24	PASS
106	5530	11.58	10.96	14.29	0.34	14.63	29.04	24	PASS
122	5610	12.06	10.92	14.54	0.34	14.88	30.76	24	PASS
155	5775	11.17	11.03	14.11	0.34	14.45	27.86	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	16.68	23.63	PASS
40	5200	16.74	23.92	PASS
48	5240	16.74	23.56	PASS
52	5260	16.68	22.87	PASS
60	5300	16.80	23.34	PASS
64	5320	16.80	22.89	PASS
100	5500	16.80	23.12	PASS
116	5580	16.80	23.39	PASS
140	5700	16.74	23.26	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
149	5745	16.68	15.86	PASS
157	5785	16.74	15.35	PASS
161	5805	16.74	15.78	PASS

**802.11n (20MHz)**

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
36	5180	17.88	23.59	PASS
40	5200	17.88	24.66	PASS
48	5240	17.94	24.03	PASS
52	5260	17.88	24.21	PASS
60	5300	17.88	24.82	PASS
64	5320	17.82	23.89	PASS
100	5500	17.82	24.97	PASS
116	5580	17.88	23.62	PASS
140	5700	17.88	23.88	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
149	5745	17.88	15.33	PASS
157	5785	17.82	16.01	PASS
161	5805	17.82	15.54	PASS



802.11n (40MHz)

CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
38	5190	36.42	41.93	PASS
46	5230	36.42	42.24	PASS
54	5270	36.42	42.01	PASS
62	5310	36.42	41.87	PASS
102	5510	36.42	42.01	PASS
110	5550	36.42	42.38	PASS
134	5670	36.48	42.30	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
151	5755	36.48	35.91	PASS
159	5795	36.42	35.74	PASS

802.11ac (80MHz)

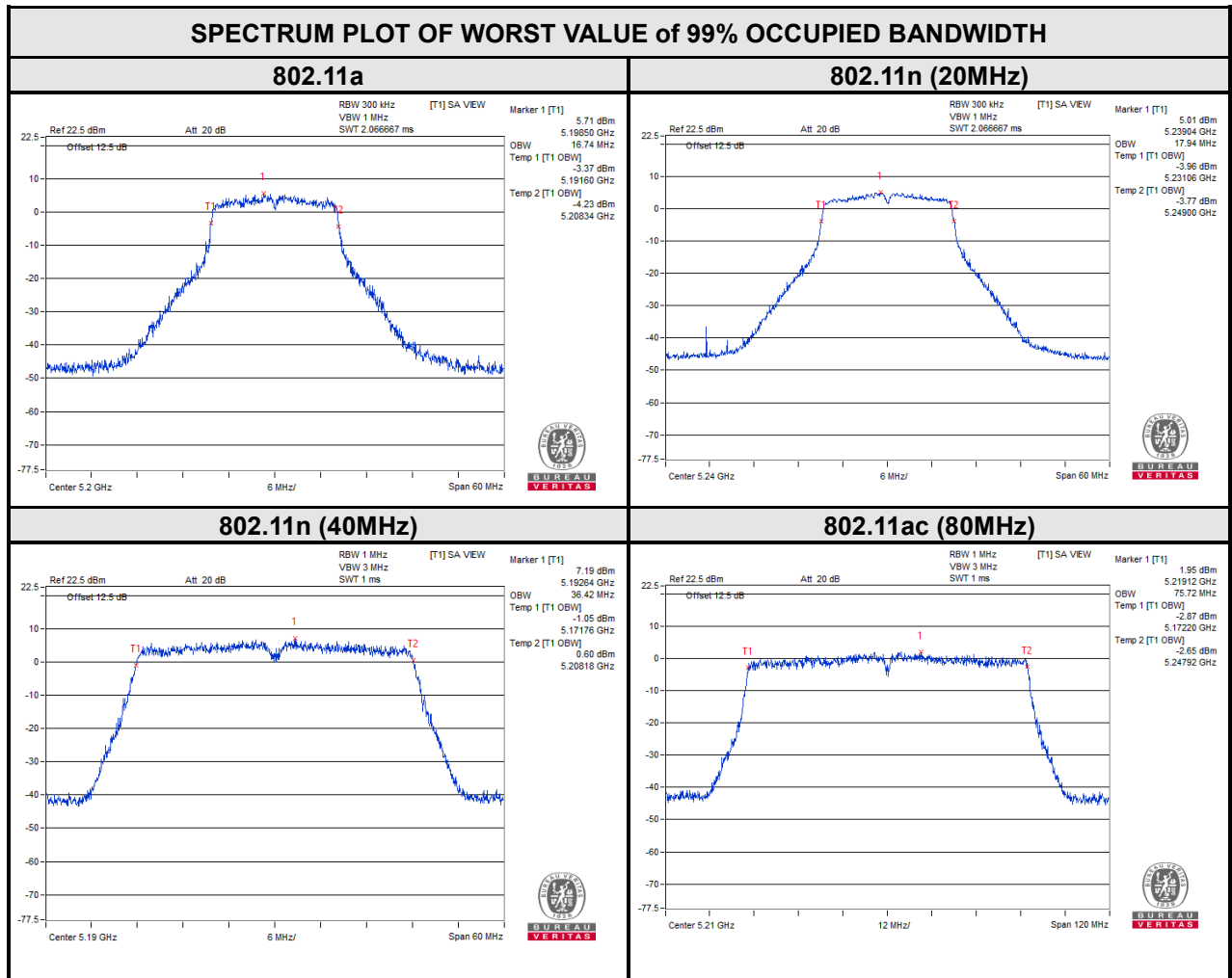
CHANNEL	CHANNEL FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH	26dB BANDWIDTH (MHz)	PASS/FAIL
42	5210	75.72	83.98	PASS
58	5290	75.48	84.25	PASS
106	5530	75.72	84.47	PASS
122	5610	75.60	83.88	PASS
CHANNEL	CHANNEL FREQUENCY	99% OCCUPIED BANDWIDTH	6dB BANDWIDTH	PASS/FAIL
155	5775	75.72	75.15	PASS



BUREAU
VERITAS

Test Report No.: RF200106W008-3

For U-NII-1:



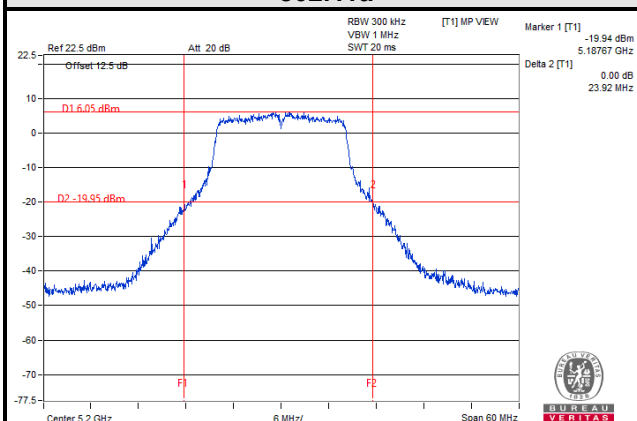


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VERITAS

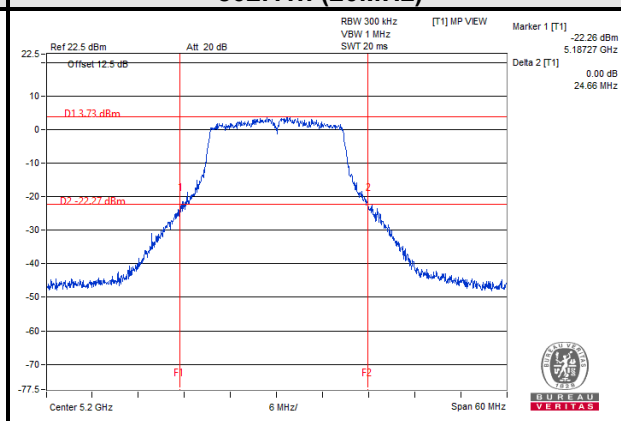
Test Report No.: RF200106W008-3

SPECTRUM PLOT OF WORST VALUE of 26dB Bandwidth

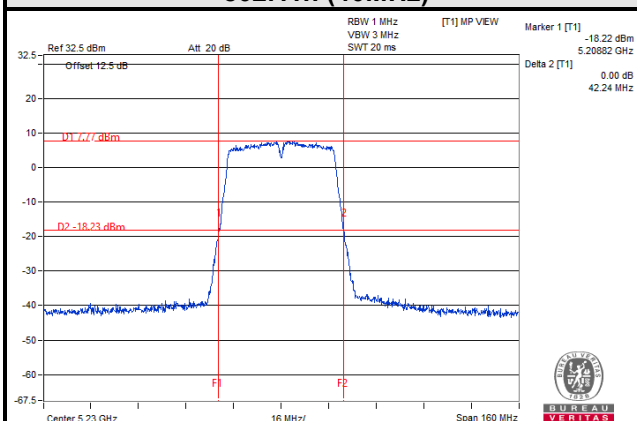
802.11a



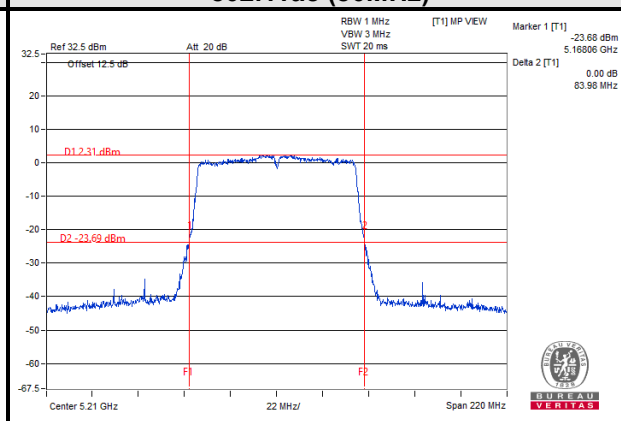
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)





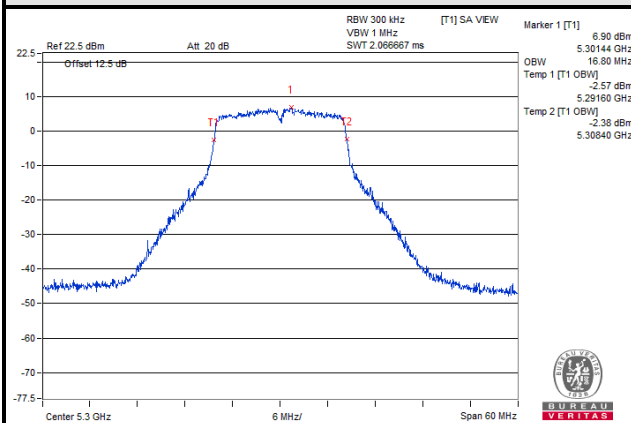
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Test Report No.: RF200106W008-3

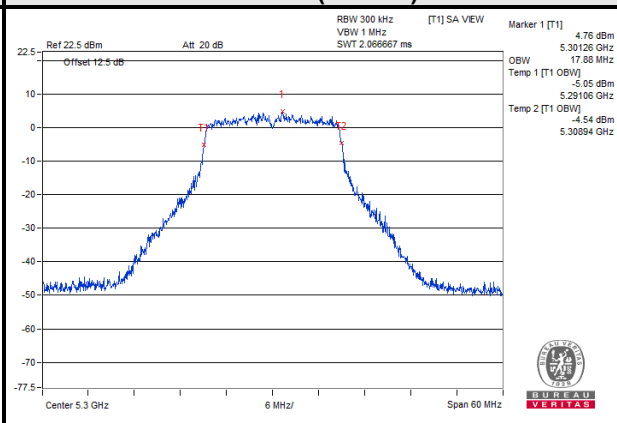
For U-NII-2A:

SPECTRUM PLOT OF WORST VALUE of 99% OCCUPIED BANDWIDTH

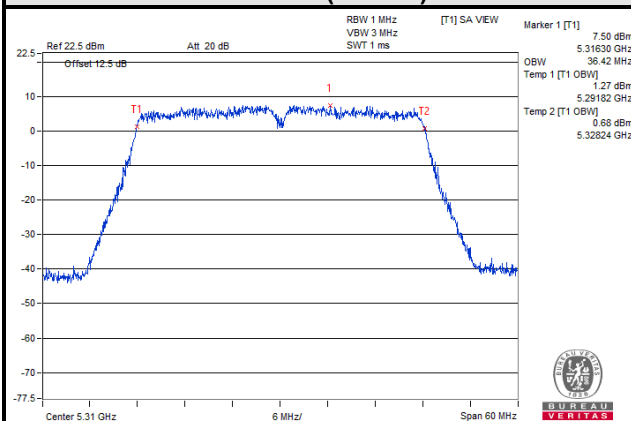
802.11a



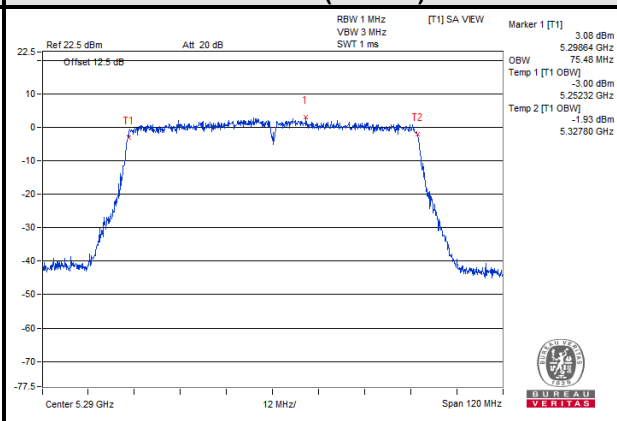
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)



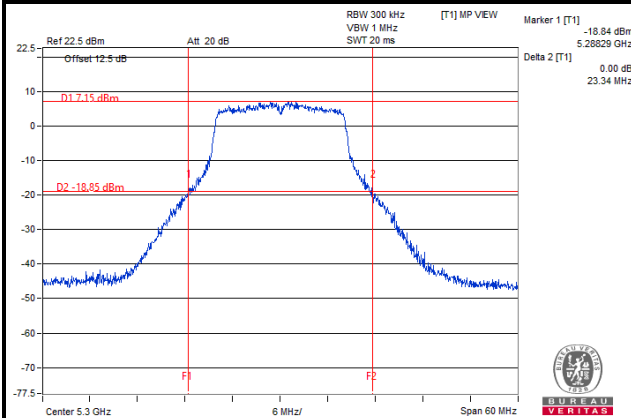


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VERITAS

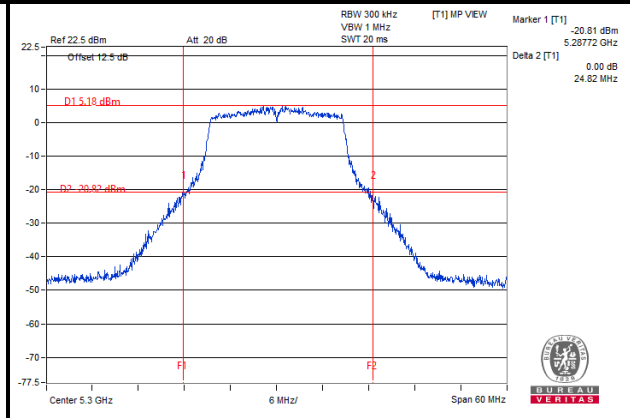
Test Report No.: RF200106W008-3

SPECTRUM PLOT OF WORST VALUE of 26dB Bandwidth

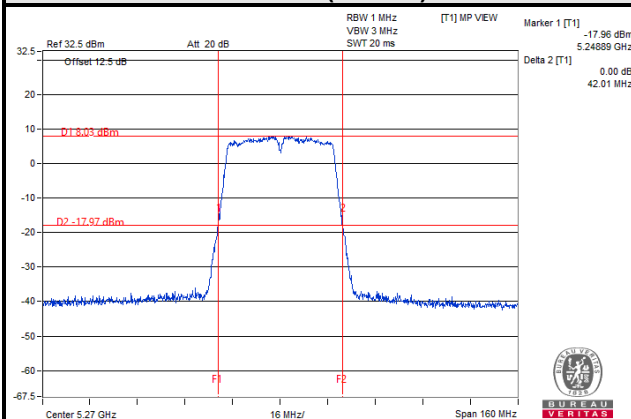
802.11a



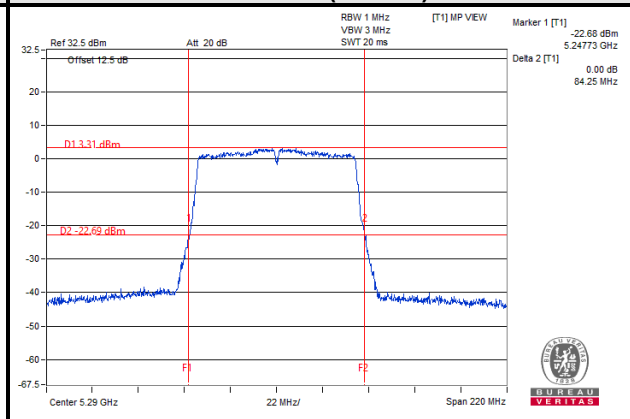
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

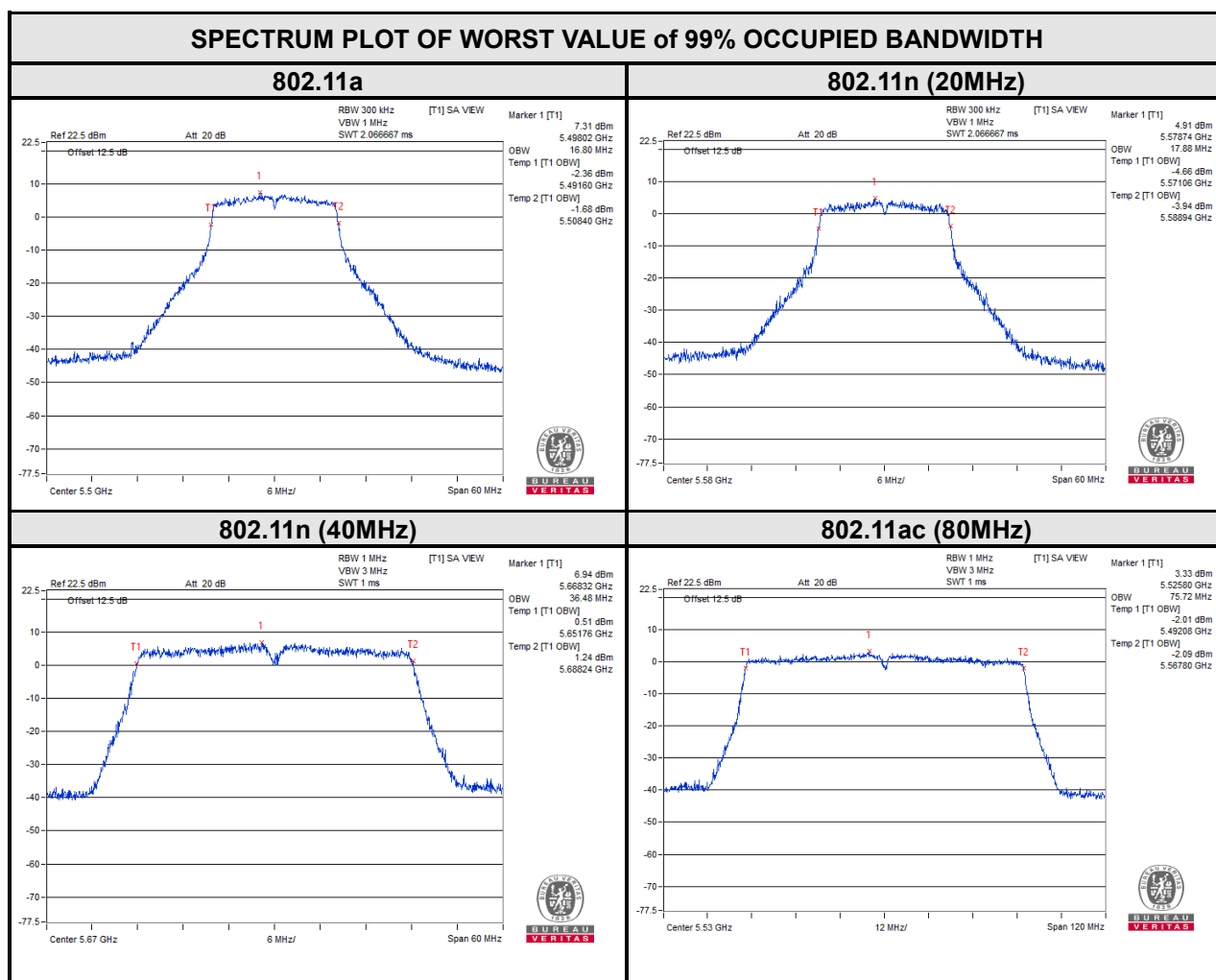




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VERITAS

Test Report No.: RF200106W008-3

For U-NII-2C:



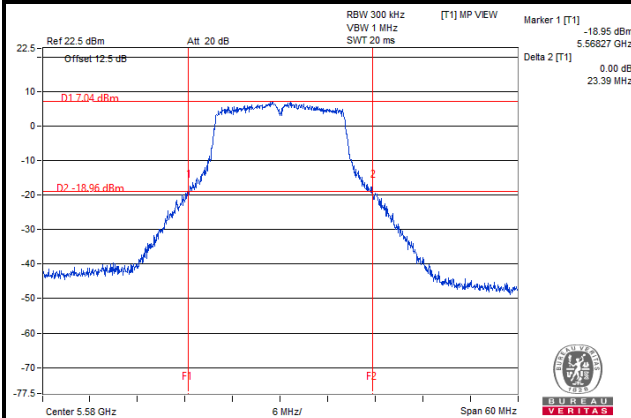


BUREAU
VERITAS

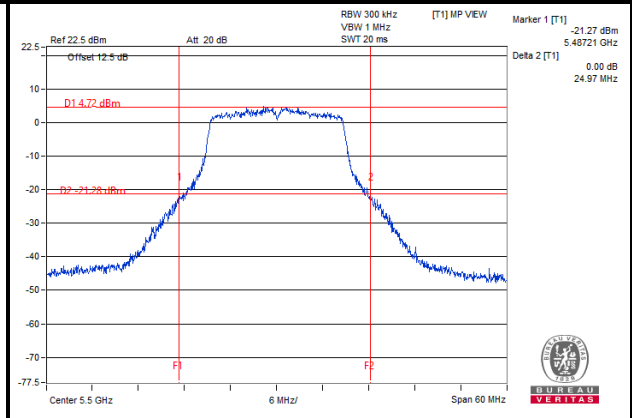
Test Report No.: RF200106W008-3

SPECTRUM PLOT OF WORST VALUE of 26dB Bandwidth

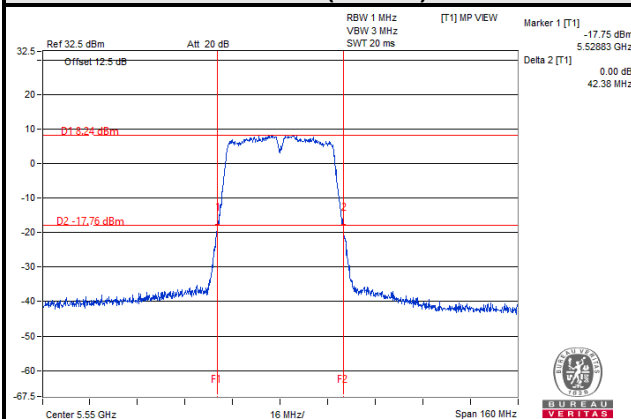
802.11a



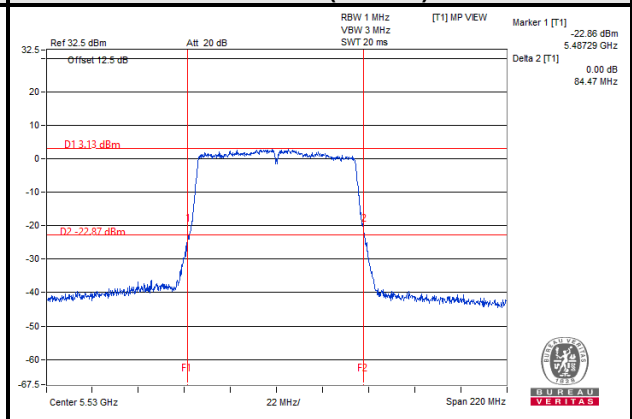
802.11n (20MHz)



802.11n (40MHz)



802.11ac (80MHz)

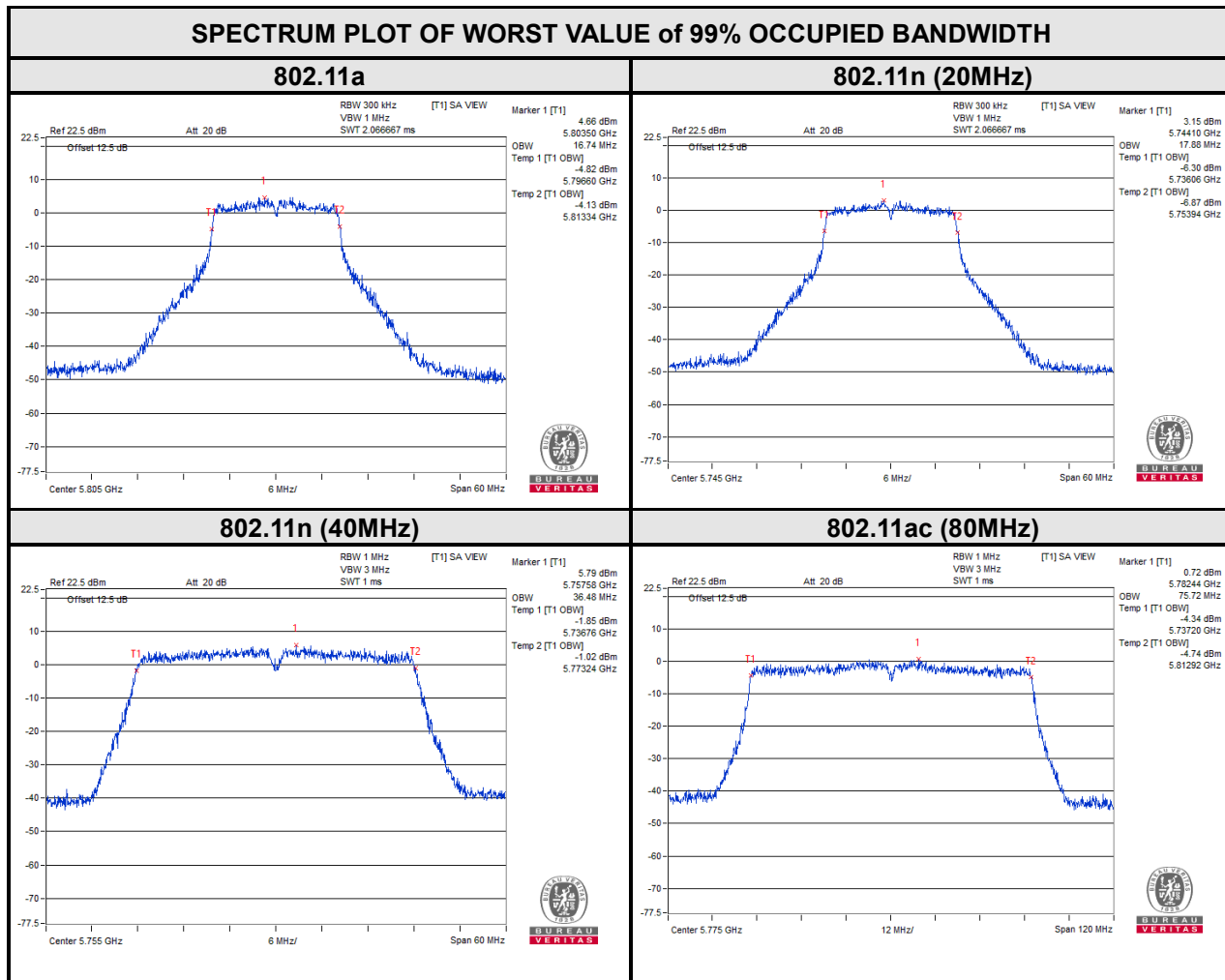




BUREAU
VERITAS

Test Report No.: RF200106W008-3

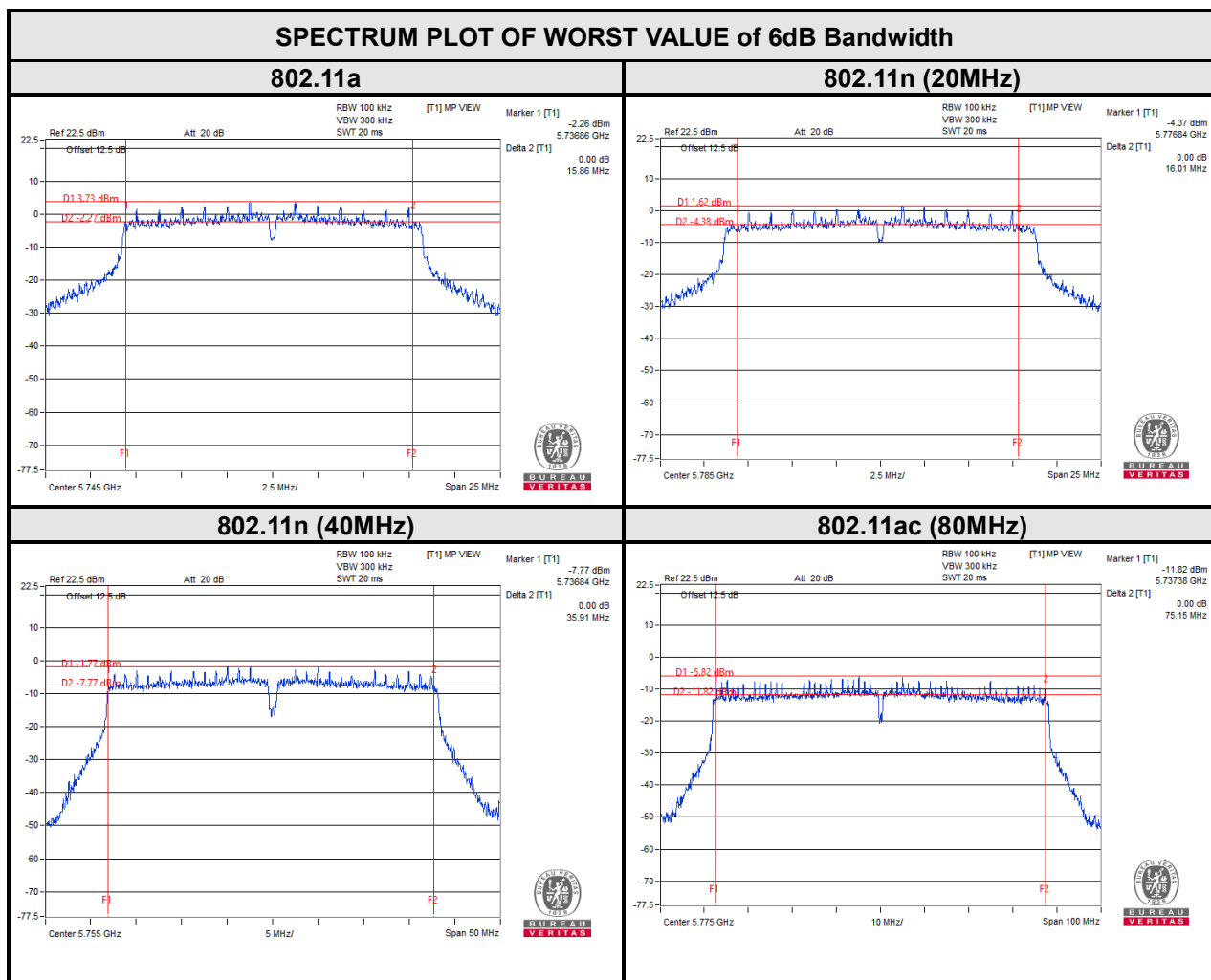
For U-NII-3:





BUREAU
VERITAS

Test Report No.: RF200106W008-3

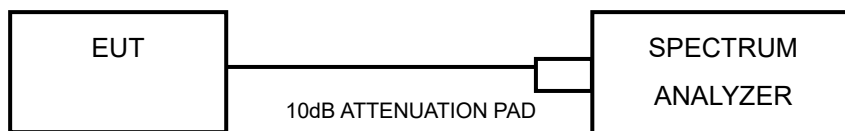


3.4 MAXIMUM POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 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

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 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

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.1.6.

3.4.7 TEST RESULTS

SISO MODE:

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

802.11a ANT0

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	7.04	0.08	7.12	11	PASS
40	5200	7.19	0.08	7.27	11	PASS
48	5240	7.88	0.08	7.96	11	PASS
52	5260	8.14	0.08	8.22	11	PASS
60	5300	7.57	0.08	7.65	11	PASS
64	5320	8.20	0.08	8.28	11	PASS
100	5500	7.91	0.08	7.99	11	PASS
116	5580	8.63	0.08	8.71	11	PASS
140	5700	7.47	0.08	7.55	11	PASS

802.11a ANT1

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	7.10	0.08	7.18	11	PASS
40	5200	6.76	0.08	6.84	11	PASS
48	5240	7.86	0.08	7.94	11	PASS
52	5260	7.48	0.08	7.56	11	PASS
60	5300	7.79	0.08	7.87	11	PASS
64	5320	6.71	0.08	6.79	11	PASS
100	5500	6.93	0.08	7.01	11	PASS
116	5580	6.32	0.08	6.40	11	PASS
140	5700	6.37	0.08	6.45	11	PASS



802.11n(20MHz) ANT0

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	4.58	0.08	4.66	11	PASS
40	5200	5.13	0.08	5.21	11	PASS
48	5240	5.57	0.08	5.65	11	PASS
52	5260	5.39	0.08	5.47	11	PASS
60	5300	5.71	0.08	5.79	11	PASS
64	5320	5.57	0.08	5.65	11	PASS
100	5500	5.33	0.08	5.41	11	PASS
116	5580	5.74	0.08	5.82	11	PASS
140	5700	4.01	0.08	4.09	11	PASS

802.11n (20MHz) ANT1

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	4.00	0.08	4.08	11	PASS
40	5200	3.92	0.08	4.00	11	PASS
48	5240	5.32	0.08	5.40	11	PASS
52	5260	5.40	0.08	5.48	11	PASS
60	5300	4.77	0.08	4.85	11	PASS
64	5320	4.48	0.08	4.56	11	PASS
100	5500	5.12	0.08	5.20	11	PASS
116	5580	4.03	0.08	4.11	11	PASS
140	5700	3.69	0.08	3.77	11	PASS



802.11n (40MHz) ANT0

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	2.27	0.16	2.43	11	PASS
46	5230	3.08	0.16	3.24	11	PASS
54	5270	2.99	0.16	3.15	11	PASS
62	5310	3.35	0.16	3.51	11	PASS
102	5510	2.62	0.16	2.78	11	PASS
110	5550	3.16	0.16	3.32	11	PASS
134	5670	1.80	0.16	1.96	11	PASS

802.11n (40MHz) ANT1

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	1.69	0.16	1.85	11	PASS
46	5230	2.00	0.16	2.16	11	PASS
54	5270	2.36	0.16	2.52	11	PASS
62	5310	2.91	0.16	3.07	11	PASS
102	5510	2.21	0.16	2.37	11	PASS
110	5550	1.78	0.16	1.94	11	PASS
134	5670	0.37	0.16	0.53	11	PASS

**802.11ac (80MHz) ANT0**

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	-2.33	0.34	-1.99	11	PASS
58	5290	-2.00	0.34	-1.66	11	PASS
106	5530	-2.20	0.34	-1.86	11	PASS
122	5610	-2.27	0.34	-1.93	11	PASS

802.11ac (80MHz) ANT1

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	-2.44	0.34	-2.10	11	PASS
58	5290	-2.54	0.34	-2.20	11	PASS
106	5530	-2.95	0.34	-2.61	11	PASS
122	5610	-3.12	0.34	-2.78	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 ANT0

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
149	5745	2.45	4.67	0.08	4.75	30	PASS
157	5785	3.81	6.03	0.08	6.11	30	PASS
161	5805	1.70	3.92	0.08	4.00	30	PASS

802.11a ANT1

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
149	5745	3.36	5.58	0.08	5.66	30	PASS
157	5785	3.89	6.11	0.08	6.19	30	PASS
161	5805	2.44	4.66	0.08	4.74	30	PASS

802.11n (20MHz) ANT0

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
149	5745	0.93	3.15	0.08	3.23	30	PASS
157	5785	1.29	3.51	0.08	3.59	30	PASS
161	5805	1.32	3.54	0.08	3.62	30	PASS

802.11n (20MHz) ANT1

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
149	5745	1.43	3.65	0.08	3.73	30	PASS
157	5785	0.85	3.07	0.08	3.15	30	PASS
161	5805	1.93	4.15	0.08	4.23	30	PASS

802.11n (40MHz) ANT0

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
151	5755	-2.00	0.22	0.16	0.38	30	PASS
159	5795	-2.06	0.16	0.16	0.32	30	PASS

802.11n (40MHz) ANT1

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
151	5755	-2.28	-0.06	0.16	0.10	30	PASS
159	5795	-2.05	0.17	0.16	0.33	30	PASS

802.11ac (80MHz) ANT0

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
155	5775	-6.64	-4.42	0.34	-4.08	30	PASS

802.11ac (80MHz) ANT1

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
155	5775	-1.79	0.43	0.34	0.77	30	PASS

**MIMO MODE:**

For U-NII-1 & U-NII-2A & U-NII-2C:
802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
		Chain0	Chain1					
36	5180	6.94	6.96	9.96	0.08	10.04	11	PASS
40	5200	6.37	7.43	9.94	0.08	10.02	11	PASS
48	5240	7.24	7.21	10.24	0.08	10.32	11	PASS
52	5260	7.10	7.28	10.20	0.08	10.28	11	PASS
60	5300	6.85	7.85	10.39	0.08	10.47	11	PASS
64	5320	7.71	6.66	10.23	0.08	10.31	11	PASS
100	5500	6.85	7.00	9.94	0.08	10.02	11	PASS
116	5580	7.58	6.52	10.09	0.08	10.17	11	PASS
140	5700	6.24	5.97	9.12	0.08	9.20	11	PASS

Note: $N_{ANT} = 2$, $N_{SS} = 2$, Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$ dBi = -4.72dBi < 6dBi, density limit shall not be reduced.

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
		Chain0	Chain1					
36	5180	3.68	4.77	7.27	0.08	7.35	11	PASS
40	5200	4.03	4.22	7.14	0.08	7.22	11	PASS
48	5240	5.06	4.23	7.68	0.08	7.76	11	PASS
52	5260	5.13	4.81	7.98	0.08	8.06	11	PASS
60	5300	5.17	5.11	8.15	0.08	8.23	11	PASS
64	5320	5.02	5.01	8.03	0.08	8.11	11	PASS
100	5500	5.12	4.54	7.85	0.08	7.93	11	PASS
116	5580	5.27	4.03	7.70	0.08	7.78	11	PASS
140	5700	3.68	3.92	6.81	0.08	6.89	11	PASS

Note: $N_{ANT} = 2$, $N_{SS} = 2$, Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$ dBi = -4.72dBi < 6dBi, density limit shall not be reduced.



802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
		Chain0	Chain1					
38	5190	1.58	2.50	5.07	0.16	5.23	11	PASS
46	5230	1.72	1.51	4.63	0.16	4.79	11	PASS
54	5270	2.78	2.16	5.49	0.16	5.65	11	PASS
62	5310	1.92	1.84	4.89	0.16	5.05	11	PASS
102	5510	2.49	2.47	5.49	0.16	5.65	11	PASS
110	5550	2.91	1.02	5.08	0.16	5.24	11	PASS
134	5670	1.57	0.08	3.90	0.16	4.06	11	PASS

Note: $N_{ANT} = 2$, $N_{SS}=2$, Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$ dBi = -4.72dBi < 6dBi, density limit shall not be reduced.

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL PSD w/o Duty Factor (dBm/MHz)	Duty Factor	PSD with Duty Factor (dBm/MHz)	MAXIMUM LIMIT (dBm/MHz)	PASS/FAIL
		Chain0	Chain1					
42	5210	-3.02	-3.23	-0.20	0.34	0.14	11	PASS
58	5290	-1.77	-2.07	1.09	0.34	1.43	11	PASS
106	5530	-2.42	-2.78	0.41	0.34	0.75	11	PASS
122	5610	-1.61	-2.86	0.82	0.34	1.16	11	PASS

Note: $N_{ANT} = 2$, $N_{SS}=2$, Directional gain = $G_{ANT} + 10 \log(N_{ANT}/N_{SS})$ dBi = -4.72dBi < 6dBi, density limit shall not be reduced.



For U-NII-3:

802.11a

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL 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
		Chain0	Chain1						
149	5745	1.52	1.39	4.47	6.69	0.08	6.77	30	PASS
157	5785	1.91	2.23	5.08	7.30	0.08	7.38	30	PASS
161	5805	1.18	3.85	5.73	7.95	0.08	8.03	30	PASS

802.11n (20MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL 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
		Chain0	Chain1						
149	5745	1.12	-0.02	3.60	5.82	0.08	5.90	30	PASS
157	5785	1.25	1.00	4.14	6.36	0.08	6.44	30	PASS
161	5805	0.75	0.91	3.84	6.06	0.08	6.14	30	PASS

802.11n (40MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL 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
		Chain0	Chain1						
151	5755	-2.45	-2.32	0.63	2.85	0.16	3.01	30	PASS
159	5795	-2.44	-1.72	0.95	3.17	0.16	3.33	30	PASS

802.11ac (80MHz)

CHANNEL	FREQUENCY (MHz)	PSD w/o Duty Factor (dBm/MHz)		TOTAL 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
		Chain0	Chain1						
155	5775	-7.89	-6.32	-4.02	-1.80	0.34	-1.46	30	PASS

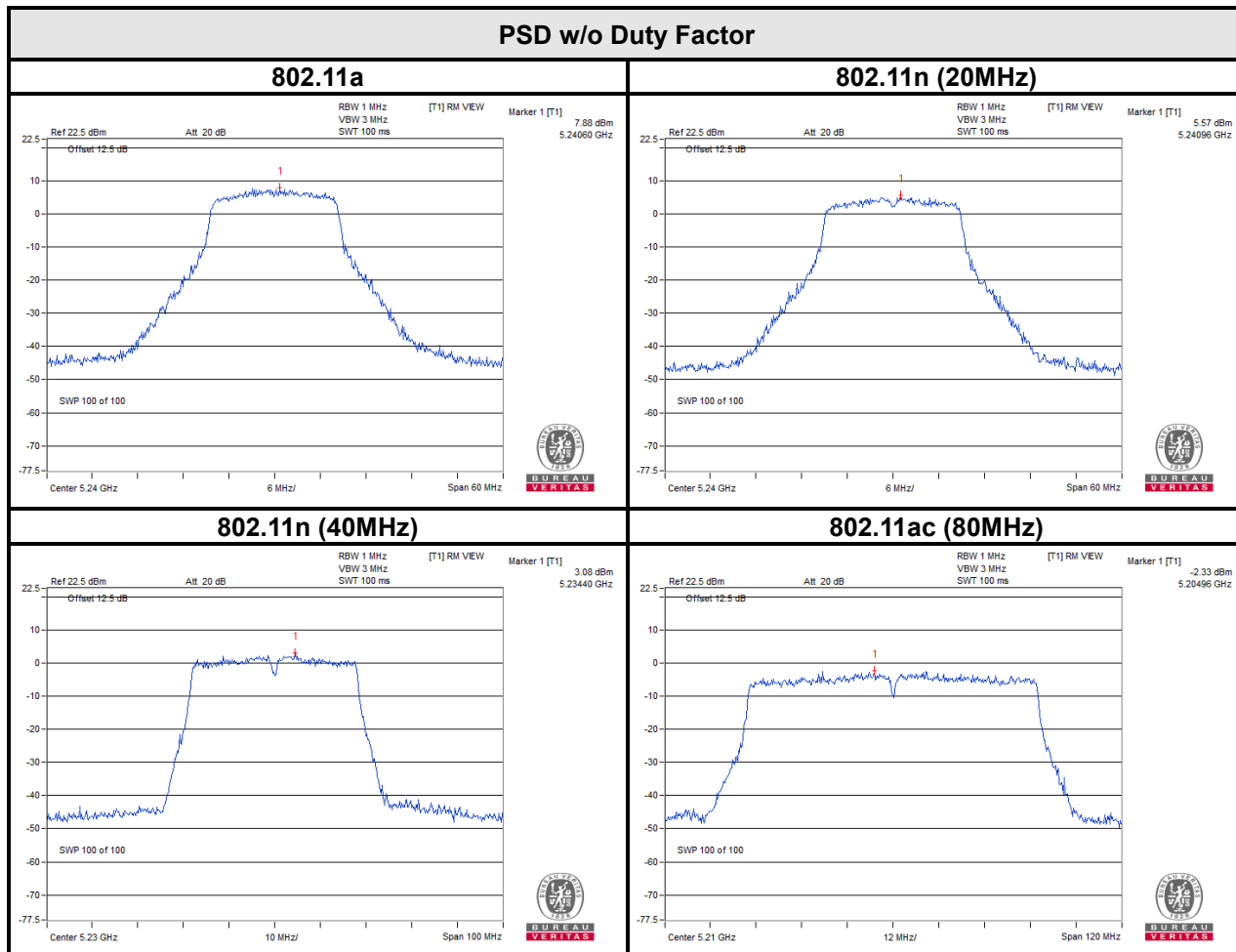


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SISO:

For 5180~5240MHz

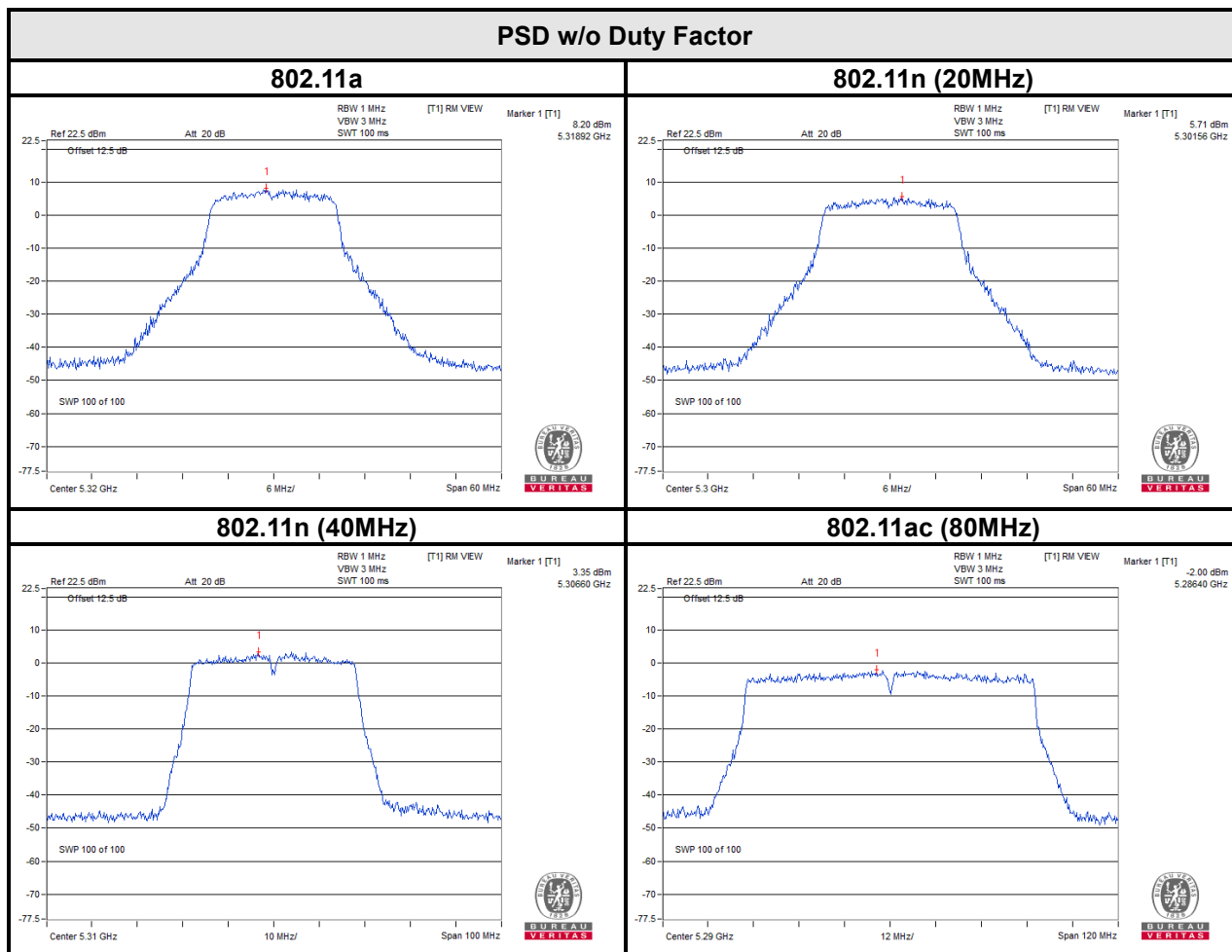




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VERITAS

Test Report No.: RF200106W008-3

For 5260~5320MHz

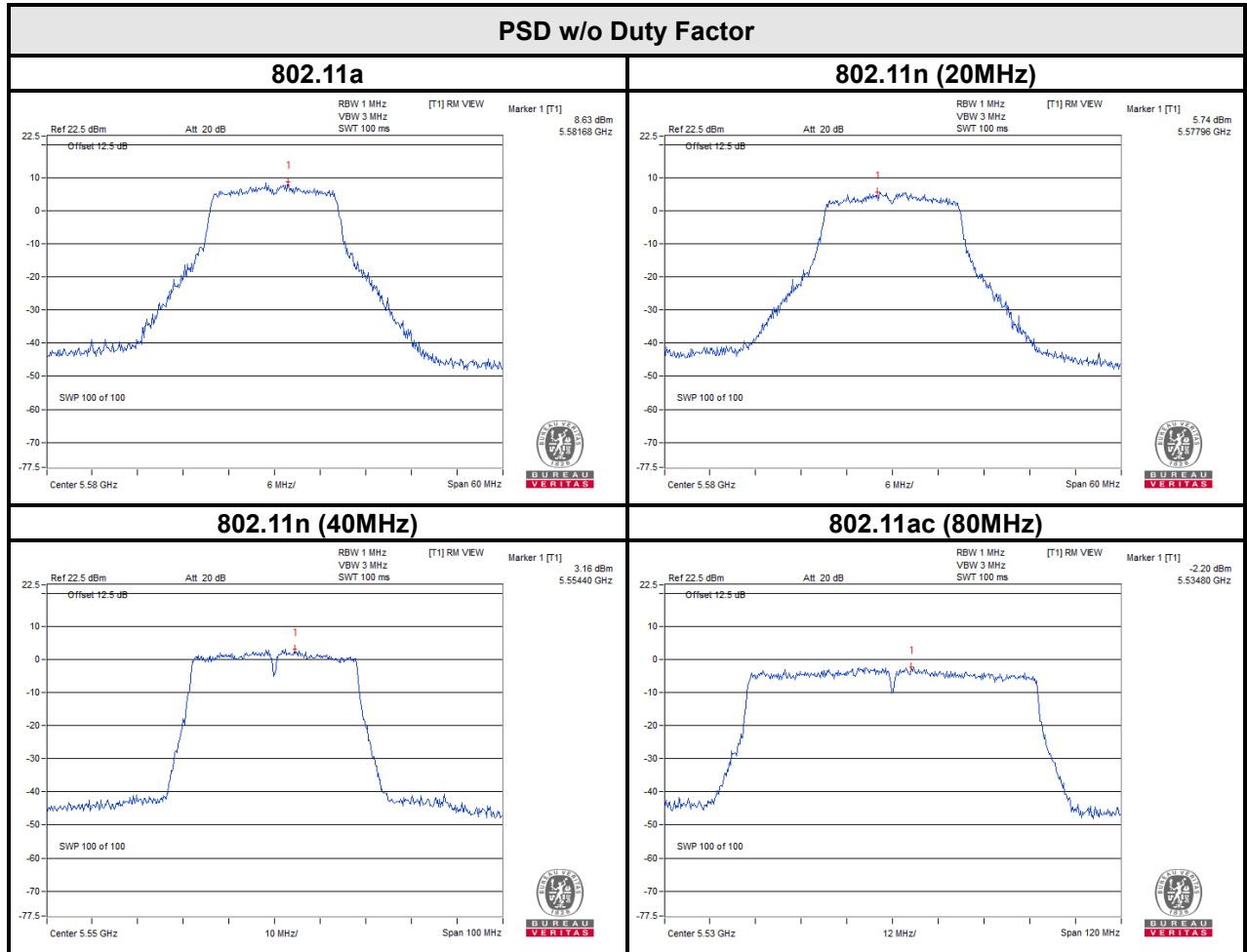




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VERITAS

Test Report No.: RF200106W008-3

For 5500~5700MHz

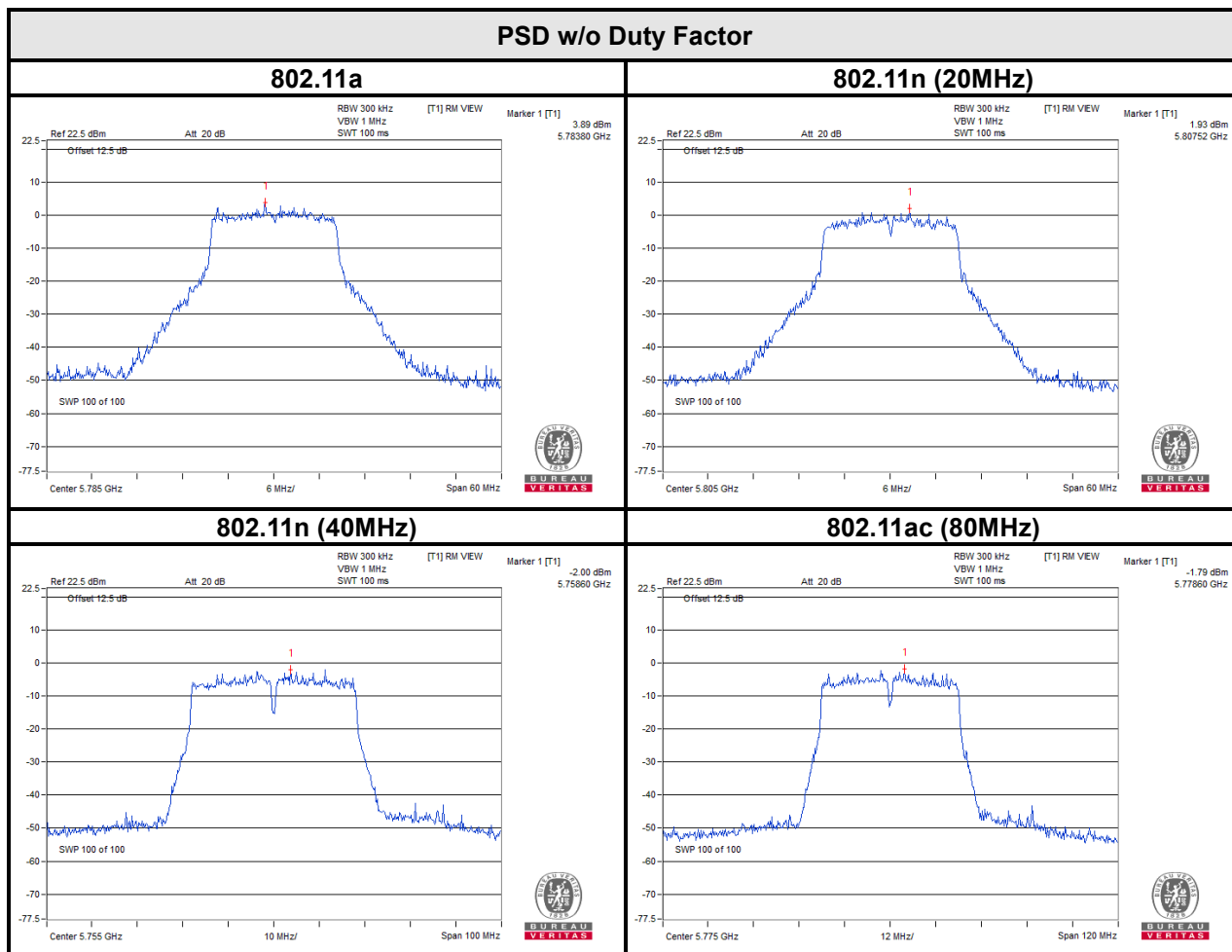




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Test Report No.: RF200106W008-3

For 5745~5805MHz



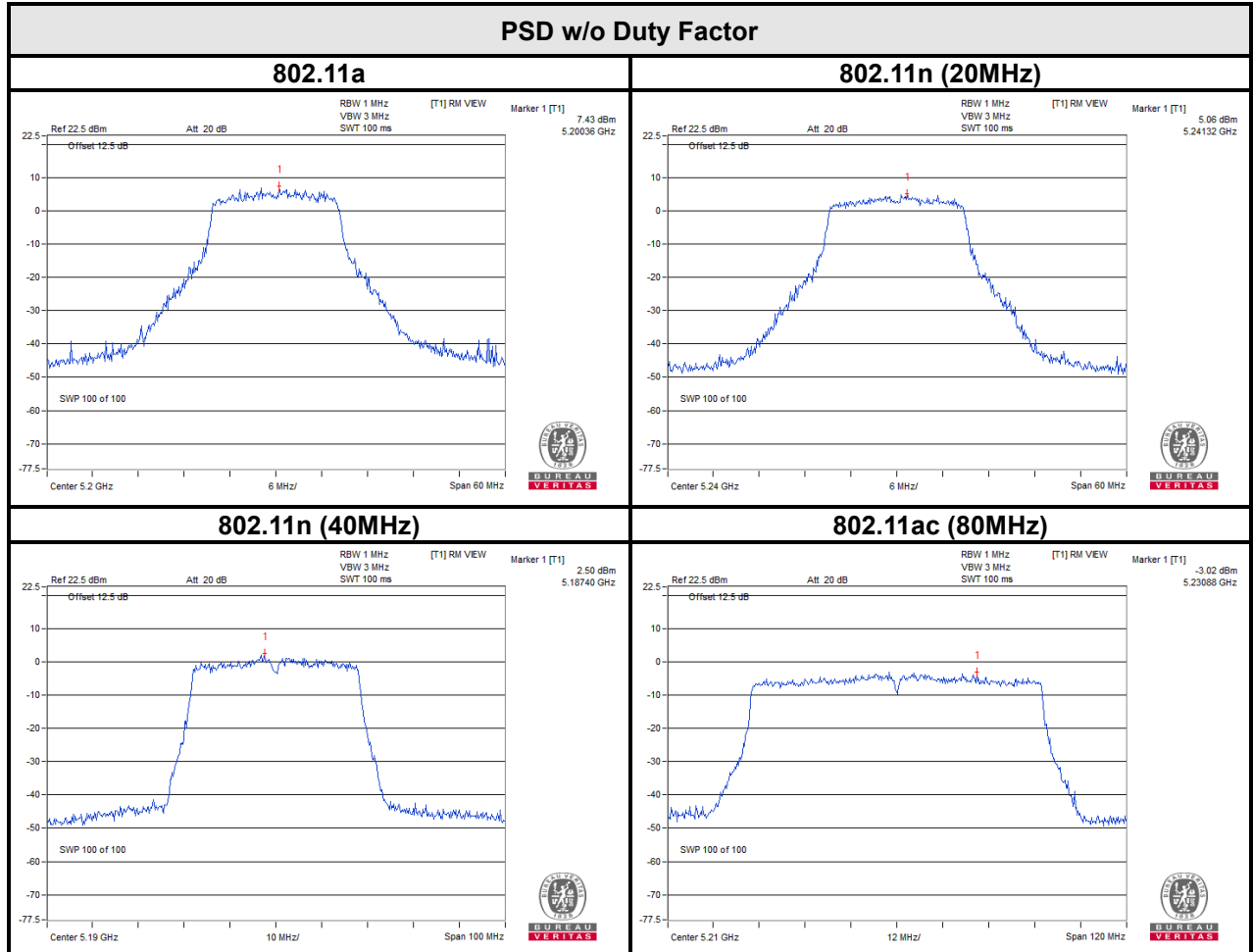


BUREAU
VERITAS

Test Report No.: RF200106W008-3

MIMO:

For 5180~5240MHz

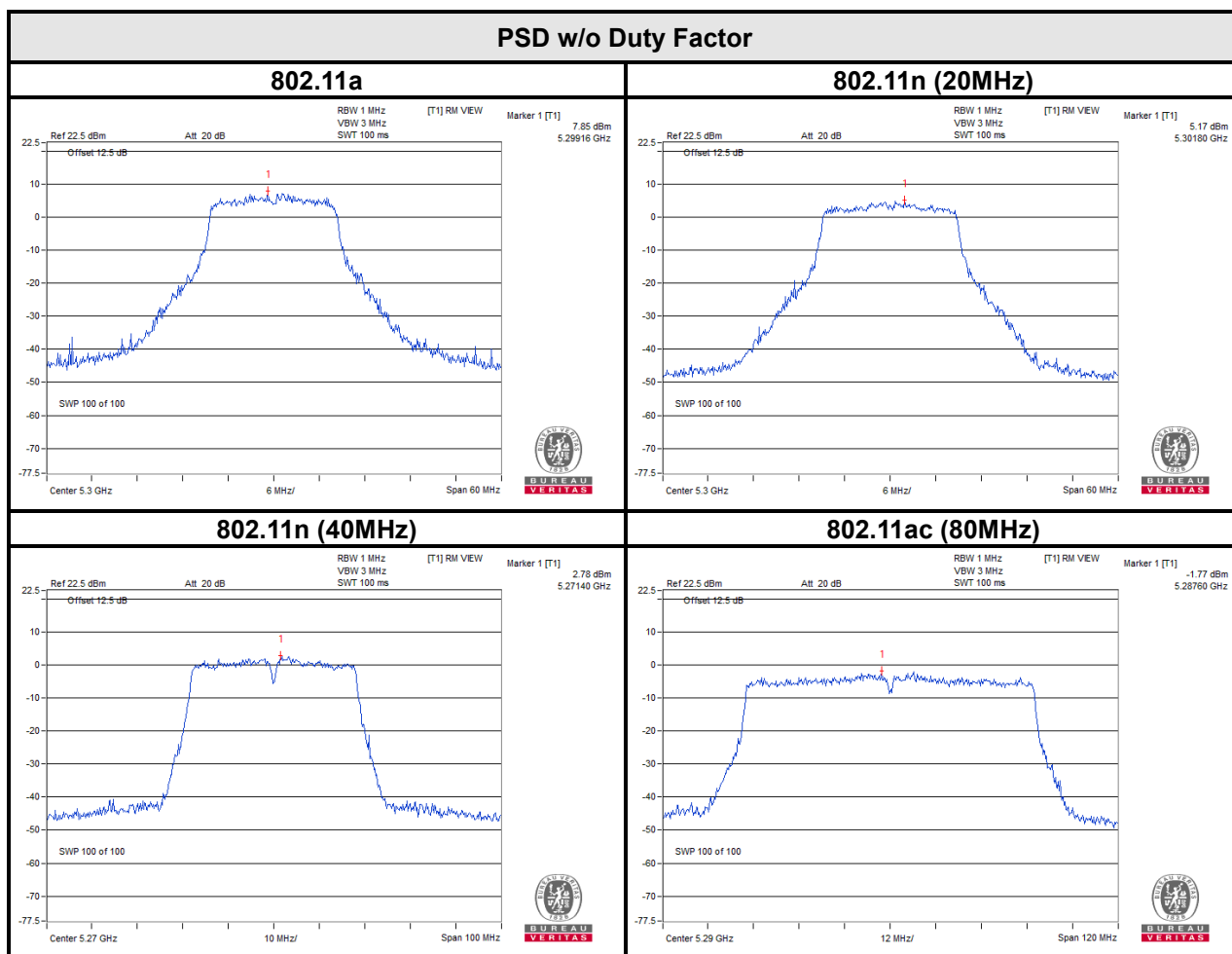




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Test Report No.: RF200106W008-3

For 5260~5320MHz

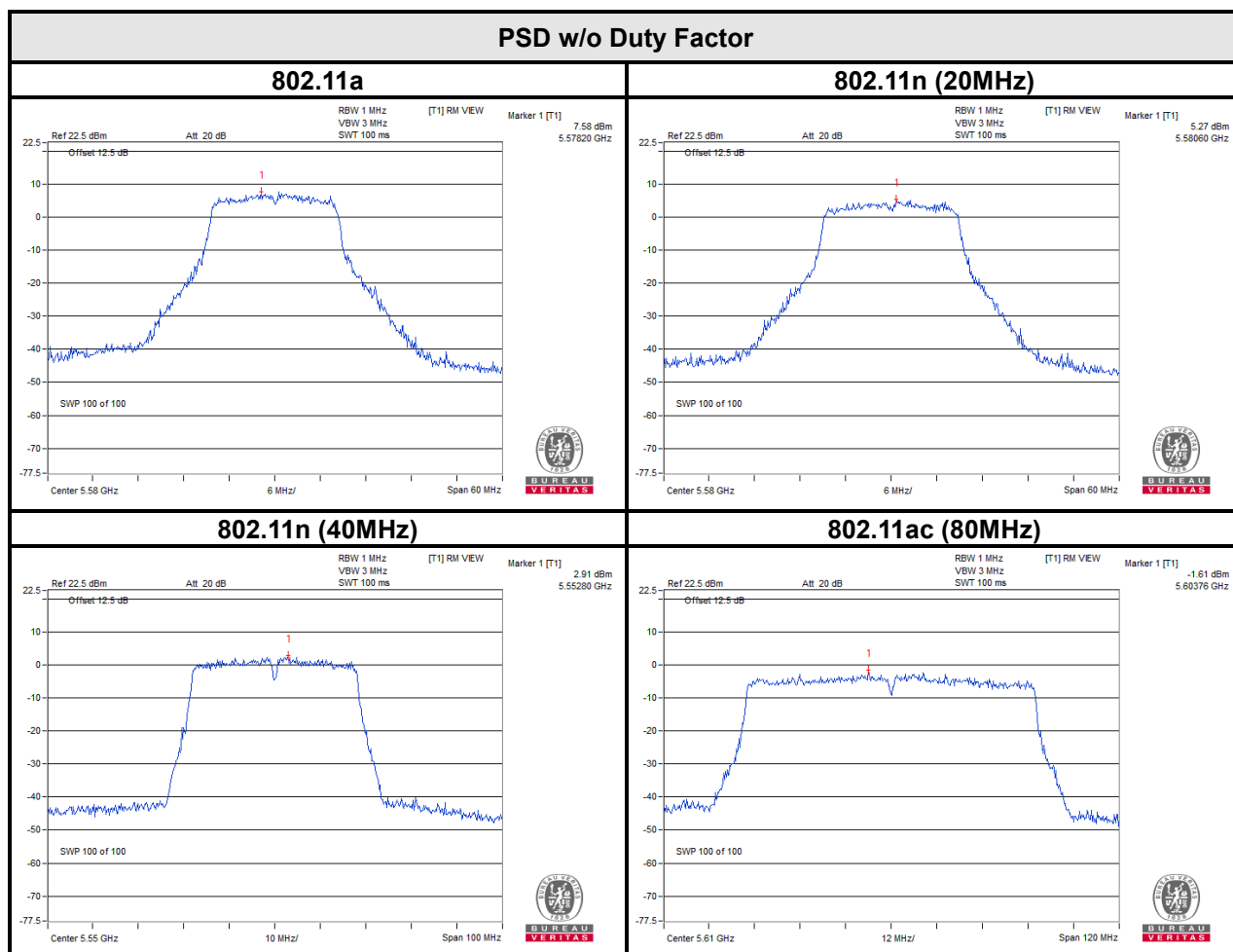




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VERITAS

Test Report No.: RF200106W008-3

For 5500~5700MHz

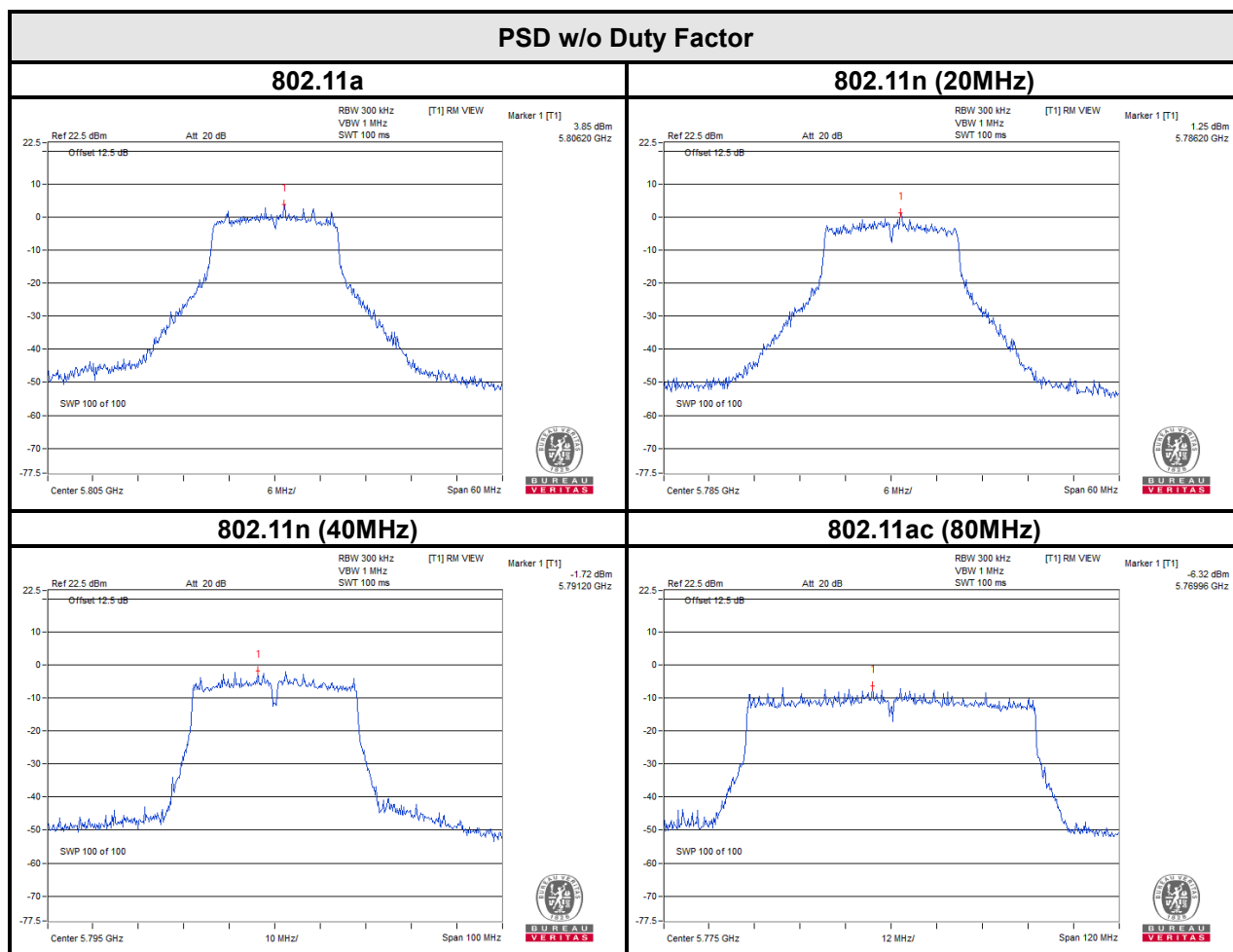




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For 5745~5805MHz



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



Test Report No.: RF200106W008-3

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.

---END---