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, 100085

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Product:	Mobile Phone
Brand Name:	Redmi
Model Name:	23053RN02L
FCC ID:	2AFZZRN02L
Date of tests:	Mar. 06, 2023 ~ Mar. 29, 2023
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 Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
Simon Wang Date: Mar. 29, 2023	Luke Lu Date: Mar. 29, 2023

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/ and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P23030003RF03	Original release	Mar. 29, 2023

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
15.407(i)	26 dB Bandwidth	Compliance
15.407(e)	6 dB Bandwidth	Compliance
15.203	Antenna Requirement	Compliance

NOTE:

1. Except the data of RSE and Band Edge Measurement, other data please refer to the appendix.

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 (9KHz~30MHz)	±2.68dB
Radiated emissions (30MHz~1GHz)	±4.98dB
Radiated emissions (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±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	23053RN02L
NOMINAL VOLTAGE	5V/9V/10V/12Vdc(adapter or host equipment) 3.8Vdc (Li-ion, battery)
MODULATION	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps 802.11ac: up to 866.6Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
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 ~ 5825MHz: 4 for 802.11a, 802.11n, 802.11ac (20MHz) 2 for 802.11n, 802.11ac (40MHz) 1 for 802.11ac (80MHz)
AVERAGE POWER	51.40 mW for 5180 ~ 5240MHz 53.70 mW for 5260 ~ 5320MHz 51.88 mW for 5500 ~ 5720MHz 52.00 mW for 5745 ~ 5825MHz
ANTENNA TYPE	IFA Antenna
ANTENNA GAIN	-3.6dBi for 5180 ~ 5240MHz -3.9dBi for 5260 ~ 5320MHz -3.8dBi for 5500 ~ 5720MHz -4.3dBi for 5745 ~ 5825MHz
HW VERSION	P1.1
SW VERSION	MIUI14
IMEI	867866060030240 867866060047483 867866060047491
I/O PORTS	Refer to user's manual

CABLE SUPPLIED	USB cable1: non-shielded cable, with w/o ferrite core, 1.0 meter USB cable2: non-shielded cable, with w/o ferrite core, 1.0 meter

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. The EUT incorporates a SISO function. Physically, the EUT provides two completed transmitter and two receiver.

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

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

2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

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 5260 ~ 5320MHz

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 5500 ~ 5720MHz

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

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

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

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

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

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

FOR 5745 ~ 5825MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

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

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

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

CHANNEL	FREQUENCY
155	5775 MHz

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥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≥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 (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	802.11ac (20MHz)	5500-5720	100 to 144	140	OFDM	MCS0

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, 48	OFDM	6.0
A	802.11an/ac (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11an/ac (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	802.11an/ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11an/ac (40MHz)		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11an/ac (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144,149, 157,165	OFDM	6.0
A	802.11an/ac (20MHz)		144 to 165	144,149, 157,165	OFDM	MCS0
A	802.11an/ac (40MHz)		142 to 159	142,151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138 to 155	138,155	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	802.11ac (20MHz)	5500-5720	100 to 144	140	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	802.11an/ac (20MHz)		36 to 48	36, 48	OFDM	MCS0
A	802.11an/ac (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	802.11an/ac (20MHz)		52 to 64	52, 60, 64	OFDM	MCS0
A	802.11an/ac (40MHz		54 to 62	54, 62	OFDM	MCS0
A	802.11ac (80MHz)		58	58	OFDM	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac (20MHz)		100 to 144	100, 116, 140, 144	OFDM	MCS0
A	802.11an/ac/ (40MHz)		102 to 142	102, 110, 134, 142	OFDM	MCS0
A	802.11ac (80MHz)		106 to 138	106, 138	OFDM	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11an/ac (20MHz)		144 to 165	144, 149, 157,165	OFDM	MCS0
A	802.11an/ac (40MHz)		142 to 159	142, 151, 159	OFDM	MCS0
A	802.11ac (80MHz)		138,155	138, 155	OFDM	MCS0

ANTENNA PORT CONDUCTED MEASUREMENT:

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

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

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5V/9V/10V/12V By Adapter	Jace Hu
RE≥1G	23deg. C, 70%RH	DC 5V/9V/10V/12V By Adapter	Jace Hu
PLC	25deg. C, 52%RH	DC 5V/9V/10V/12V By Adapter	James Fu
APCM	25deg. C, 60%RH	DC 3.8V By Battery	James Fu

2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix A Of this test report.

WORST-CASE DATA:

Measured Duty Cycle		
Mode		Duty Cycle [%]
		ANT1
5GHZ	11a	97.22
	11n20	97.01
	11n40	94.20
	11ac20	97.06
	11ac40	94.29
	11ac80	89.19

Note:

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

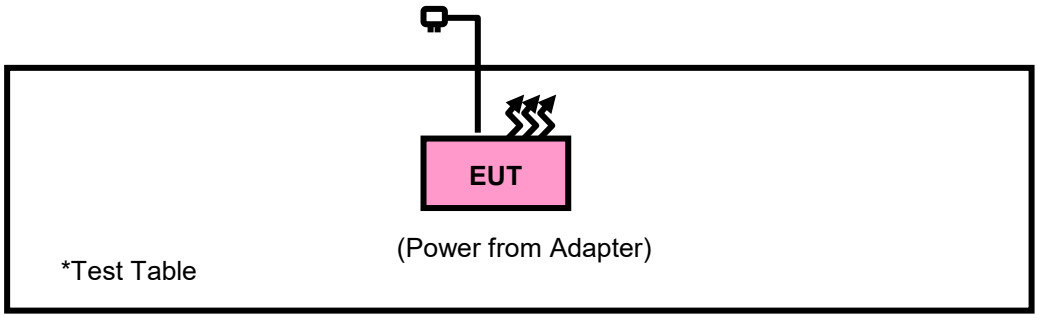
2.4 DESCRIPTION OF SUPPORT UNITS

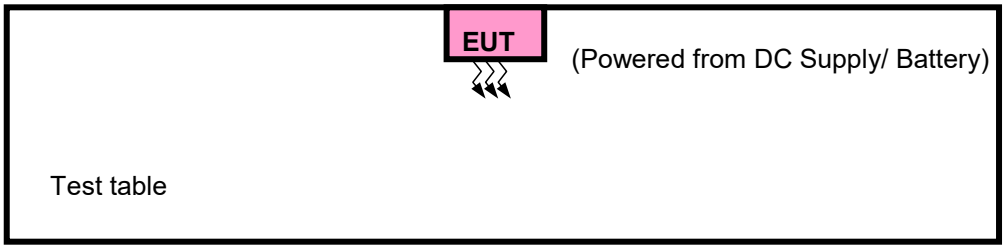
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	ThinkpadL440	R90FTFKN	N/A
4	DC source	Kikusui/JP	PMX18-5A	0000001	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
4	DC Line: Unshielded, Detachable 1.0m

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

	APPLICABLE TO	LIMIT	
RESTRICTED BANDS	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 : 68.2
	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:

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

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	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 05,23	Mar. 04,24
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 05,23	Mar. 04,24
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.04, 22	Sep.03, 23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	N/A	May. 12,22	May. 11,23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 20,23	Feb. 19,24
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb. 16,24
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 12,22	Aug. 11,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.03,22	Sep.02,23

NOTE: 1. The calibration interval of the above test instruments is 12 months or 36 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:

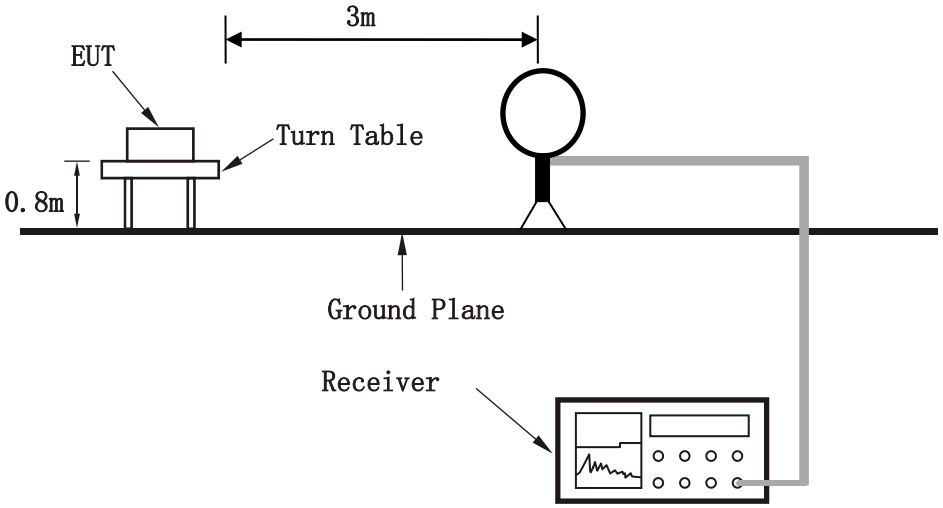
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

3.1.5 DEVIATION FROM TEST STANDARD

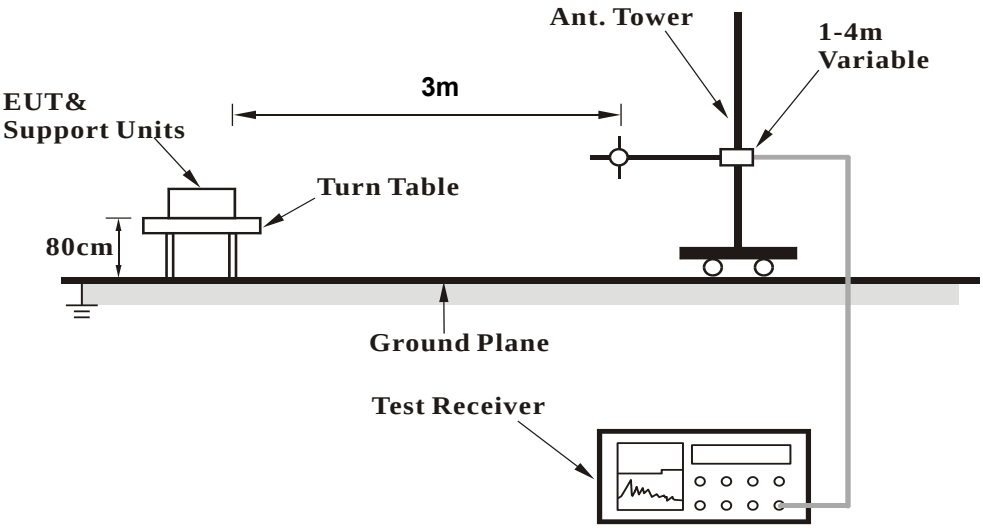
No deviation.

3.1.6 TEST SETUP

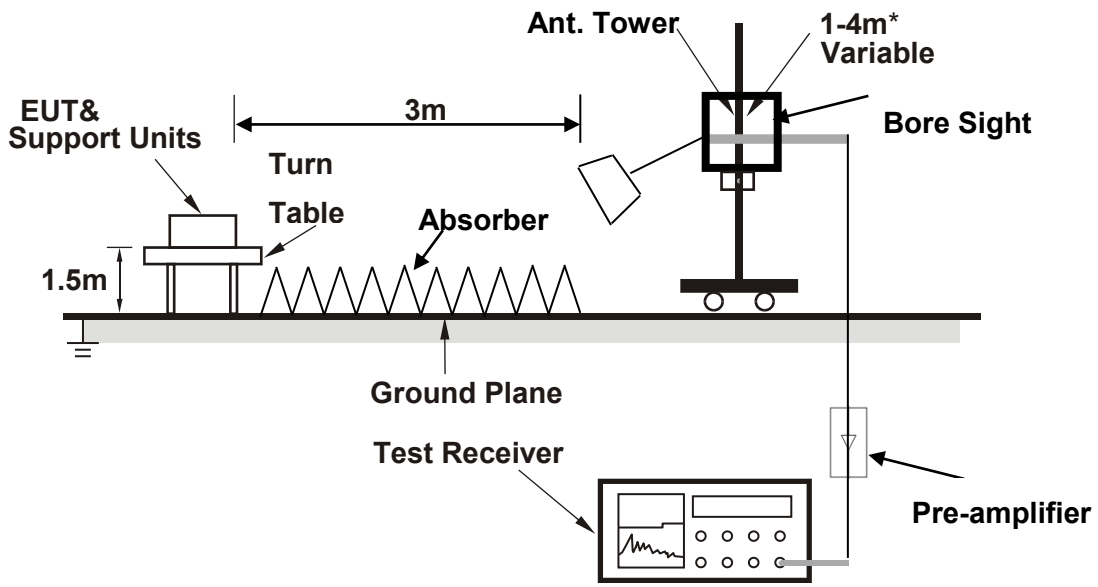
<Frequency Range 9KHz~30MHz >



< 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).

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

NOTE ： The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

30 MHz – 1GHz data:

Band 3

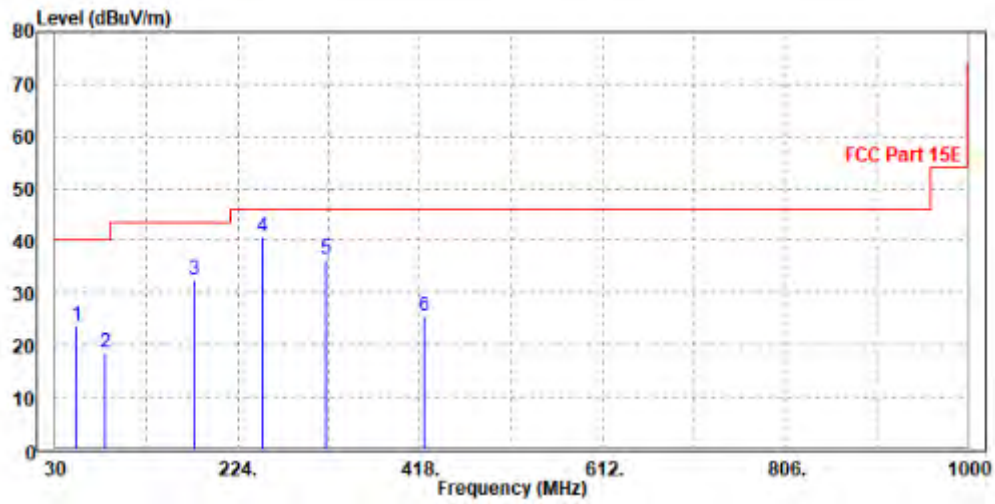
802.11ac (20MHz):

CHANNEL	TX Channel 140	**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
52.31	23.64	50.25	40	-16.36	9.97	0.41	36.99	106	233	QP
83.35	18.65	47.01	40	-21.35	8.1	0.5	36.96	197	111	QP
177.44	32.66	57.03	43.5	-10.84	11.34	0.7	36.41	156	347	QP
250.19	40.9	62.84	46	-5.1	13.5	0.83	36.27	143	7	QP
318.09	36.48	57.43	46	-9.52	14.4	0.94	36.29	196	164	QP
422.85	25.52	44.25	46	-20.48	16.63	1.11	36.47	152	195	QP

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.

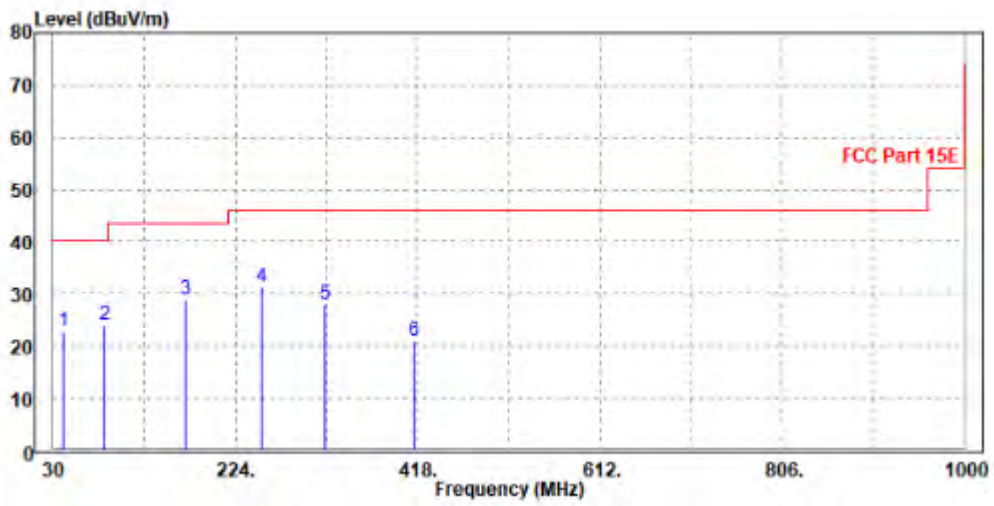


CHANNEL	Channel 140	**DETECTOR FUNCTION**	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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
40.67	22.85	47.58	40	-17.15	12.11	0.37	37.21	129	21	QP
84.32	23.94	52.36	40	-16.06	8.03	0.5	36.95	117	102	QP
171.62	28.86	53.54	43.5	-14.64	11.07	0.69	36.44	118	124	QP
251.16	31.43	54.23	46	-14.57	12.63	0.84	36.27	172	219	QP
320.03	28.01	48.9	46	-17.99	14.46	0.94	36.29	182	119	QP
413.15	20.98	39.87	46	-25.02	16.47	1.09	36.45	166	240	QP

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.

Band 1

802.11a

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

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	61.14	62.21	74	-12.86	34.52	9.92	45.51	200	325	Peak
5150	50.21	51.28	54	-3.79	34.52	9.92	45.51	200	325	Average
5180	108.71	109.77	/	/	34.54	9.91	45.51	200	325	Peak
5180	100.85	101.91	/	/	34.54	9.91	45.51	200	325	Average
5350	55.99	56.97	74	-18.01	34.68	9.85	45.51	200	325	Peak
5350	47.6	48.58	54	-6.4	34.68	9.85	45.51	200	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
5150	56.54	57.53	74	-17.46	34.6	9.92	45.51	100	170	Peak
5150	48.17	49.16	54	-5.83	34.6	9.92	45.51	100	170	Average
5180	99.75	100.75	/	/	34.6	9.91	45.51	100	170	Peak
5180	91.82	92.82	/	/	34.6	9.91	45.51	100	170	Average
5350	57.02	58.08	74	-16.98	34.6	9.85	45.51	100	170	Peak
5350	47.41	48.47	54	-6.59	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

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

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	55.98	57.05	74	-18.02	34.52	9.92	45.51	200	325	Peak
5150	48.7	49.77	54	-5.3	34.52	9.92	45.51	200	325	Average
5200	108.04	109.09	/	/	34.56	9.9	45.51	200	325	Peak
5200	100.01	101.06	/	/	34.56	9.9	45.51	200	325	Average
5350	56.36	57.34	74	-17.64	34.68	9.85	45.51	200	325	Peak
5350	47.99	48.97	54	-6.01	34.68	9.85	45.51	200	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
5150	55.58	56.57	74	-18.42	34.6	9.92	45.51	100	170	Peak
5150	48.06	49.05	54	-5.94	34.6	9.92	45.51	100	170	Average
5200	99.28	100.29	/	/	34.6	9.9	45.51	100	170	Peak
5200	91.76	92.77	/	/	34.6	9.9	45.51	100	170	Average
5350	55.76	56.82	74	-18.24	34.6	9.85	45.51	100	170	Peak
5350	47.91	48.97	54	-6.09	34.6	9.85	45.51	100	170	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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	56.13	57.2	74	-17.87	34.52	9.92	45.51	200	325	Peak
5150	48.11	49.18	54	-5.89	34.52	9.92	45.51	200	325	Average
5240	107.3	108.33	/	/	34.59	9.89	45.51	200	325	Peak
5240	99.29	100.32	/	/	34.59	9.89	45.51	200	325	Average
5350	55.42	56.4	74	-18.58	34.68	9.85	45.51	200	325	Peak
5350	47.99	48.97	54	-6.01	34.68	9.85	45.51	200	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
5150	55.58	56.57	74	-18.42	34.6	9.92	45.51	100	170	Peak
5150	47.3	48.29	54	-6.7	34.6	9.92	45.51	100	170	Average
5240	100.28	101.3	/	/	34.6	9.89	45.51	100	170	Peak
5240	92.19	93.21	/	/	34.6	9.89	45.51	100	170	Average
5350	56.39	57.45	74	-17.61	34.6	9.85	45.51	100	170	Peak
5350	47.55	48.61	54	-6.45	34.6	9.85	45.51	100	170	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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	59.3	60.37	74	-14.7	34.52	9.92	45.51	200	325	Peak
5150	49.28	50.35	54	-4.72	34.52	9.92	45.51	200	325	Average
5180	107.78	108.84	/	/	34.54	9.91	45.51	200	325	Peak
5180	99.63	100.69	/	/	34.54	9.91	45.51	200	325	Average
5350	55.99	56.97	74	-18.01	34.68	9.85	45.51	200	325	Peak
5350	48.45	49.43	54	-5.55	34.68	9.85	45.51	200	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
5150	56.19	57.18	74	-17.81	34.6	9.92	45.51	100	170	Peak
5150	47.63	48.62	54	-6.37	34.6	9.92	45.51	100	170	Average
5180	98.9	99.9	/	/	34.6	9.91	45.51	100	170	Peak
5180	90.94	91.94	/	/	34.6	9.91	45.51	100	170	Average
5350	54.96	56.02	74	-19.04	34.6	9.85	45.51	100	170	Peak
5350	47.52	48.58	54	-6.48	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

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

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	59.15	60.22	74	-14.85	34.52	9.92	45.51	200	325	Peak
5150	49.34	50.41	54	-4.66	34.52	9.92	45.51	200	325	Average
5200	108.17	109.22	/	/	34.56	9.9	45.51	200	325	Peak
5200	99.87	100.92	/	/	34.56	9.9	45.51	200	325	Average
5350	55.49	56.47	74	-18.51	34.68	9.85	45.51	200	325	Peak
5350	47.77	48.75	54	-6.23	34.68	9.85	45.51	200	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
5150	55.76	56.75	74	-18.24	34.6	9.92	45.51	100	170	Peak
5150	47.62	48.61	54	-6.38	34.6	9.92	45.51	100	170	Average
5200	99.67	100.68	/	/	34.6	9.9	45.51	100	170	Peak
5200	91.42	92.43	/	/	34.6	9.9	45.51	100	170	Average
5350	56.21	57.27	74	-17.79	34.6	9.85	45.51	100	170	Peak
5350	47.77	48.83	54	-6.23	34.6	9.85	45.51	100	170	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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	56.34	57.41	74	-17.66	34.52	9.92	45.51	200	325	Peak
5150	47.75	48.82	54	-6.25	34.52	9.92	45.51	200	325	Average
5240	106.07	107.1	/	/	34.59	9.89	45.51	200	325	Peak
5240	97.87	98.9	/	/	34.59	9.89	45.51	200	325	Average
5350	55.98	56.96	74	-18.02	34.68	9.85	45.51	200	325	Peak
5350	47.81	48.79	54	-6.19	34.68	9.85	45.51	200	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
5150	55.62	56.61	74	-18.38	34.6	9.92	45.51	100	70	Peak
5150	47.86	48.85	54	-6.14	34.6	9.92	45.51	100	70	Average
5240	98.57	99.59	/	/	34.6	9.89	45.51	100	70	Peak
5240	90.85	91.87	/	/	34.6	9.89	45.51	100	70	Average
5350	55.53	56.59	74	-18.47	34.6	9.85	45.51	100	70	Peak
5350	47.33	48.39	54	-6.67	34.6	9.85	45.51	100	70	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 (40MHz)

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

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	60.85	61.92	74	-13.15	34.52	9.92	45.51	200	325	Peak
5150	50.46	51.53	54	-3.54	34.52	9.92	45.51	200	325	Average
5190	103.75	104.8	/	/	34.55	9.91	45.51	200	325	Peak
5190	96.02	97.07	/	/	34.55	9.91	45.51	200	325	Average
5350	56.38	57.36	74	-17.62	34.68	9.85	45.51	200	325	Peak
5350	47.57	48.55	54	-6.43	34.68	9.85	45.51	200	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
5150	55.91	56.9	74	-18.09	34.6	9.92	45.51	100	170	Peak
5150	47.99	48.98	54	-6.01	34.6	9.92	45.51	100	170	Average
5190	94.86	95.86	/	/	34.6	9.91	45.51	100	170	Peak
5190	86.78	87.78	/	/	34.6	9.91	45.51	100	170	Average
5350	54.91	55.97	74	-19.09	34.6	9.85	45.51	100	170	Peak
5350	47.73	48.79	54	-6.27	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.

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

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	56.1	57.17	74	-17.9	34.52	9.92	45.51	200	325	Peak
5150	48.02	49.09	54	-5.98	34.52	9.92	45.51	200	325	Average
5230	103.2	104.24	/	/	34.58	9.89	45.51	200	325	Peak
5230	95.15	96.19	/	/	34.58	9.89	45.51	200	325	Average
5350	54.97	55.95	74	-19.03	34.68	9.85	45.51	200	325	Peak
5350	48.03	49.01	54	-5.97	34.68	9.85	45.51	200	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
5150	55.36	56.35	74	-18.64	34.6	9.92	45.51	100	170	Peak
5150	47.79	48.78	54	-6.21	34.6	9.92	45.51	100	170	Average
5230	95.29	96.31	/	/	34.6	9.89	45.51	100	170	Peak
5230	87.31	88.33	/	/	34.6	9.89	45.51	100	170	Average
5350	55.27	56.33	74	-18.73	34.6	9.85	45.51	100	170	Peak
5350	48.11	49.17	54	-5.89	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.

802.11ac (20MHz)

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

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	57.94	59.01	74	-16.06	34.52	9.92	45.51	200	325	Peak
5150	50.16	51.23	54	-3.84	34.52	9.92	45.51	200	325	Average
5180	107.71	108.77	/	/	34.54	9.91	45.51	200	325	Peak
5180	99.73	100.79	/	/	34.54	9.91	45.51	200	325	Average
5350	55.75	56.73	74	-18.25	34.68	9.85	45.51	200	325	Peak
5350	47.53	48.51	54	-6.47	34.68	9.85	45.51	200	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
5150	56.07	57.06	74	-17.93	34.6	9.92	45.51	100	170	Peak
5150	47.65	48.64	54	-6.35	34.6	9.92	45.51	100	170	Average
5180	98.65	99.65	/	/	34.6	9.91	45.51	100	170	Peak
5180	90.64	91.64	/	/	34.6	9.91	45.51	100	170	Average
5350	55.89	56.95	74	-18.11	34.6	9.85	45.51	100	170	Peak
5350	48	49.06	54	-6	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5180MHz: Fundamental frequency.

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

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	58.07	74	-17	34.52	9.92	45.51	190	50	Peak
5150	48.71	49.78	54	-5.29	34.52	9.92	45.51	190	50	Average
5200	107.22	108.27	/	/	34.56	9.9	45.51	200	325	Peak
5200	99	100.05	/	/	34.56	9.9	45.51	200	325	Average
5350	56.67	57.65	74	-17.33	34.68	9.85	45.51	200	120	Peak
5350	48.98	49.96	54	-5.02	34.68	9.85	45.51	200	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
5150	56.17	57.16	74	-17.83	34.6	9.92	45.51	120	50	Peak
5150	48.19	49.18	54	-5.81	34.6	9.92	45.51	120	50	Average
5200	99.46	100.47	/	/	34.6	9.9	45.51	100	170	Peak
5200	91.69	92.7	/	/	34.6	9.9	45.51	100	170	Average
5350	56.09	57.15	74	-17.91	34.6	9.85	45.51	155	85	Peak
5350	49.11	50.17	54	-4.89	34.6	9.85	45.51	155	85	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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	56.94	74	-18.13	34.52	9.92	45.51	100	95	Peak
5150	47.64	48.71	54	-6.36	34.52	9.92	45.51	100	95	Average
5240	107.43	108.46	/	/	34.59	9.89	45.51	200	325	Peak
5240	98.44	99.47	/	/	34.59	9.89	45.51	200	325	Average
5350	56.37	57.35	74	-17.63	34.68	9.85	45.51	170	81	Peak
5350	47.87	48.85	54	-6.13	34.68	9.85	45.51	170	81	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	55.53	56.52	74	-18.47	34.6	9.92	45.51	100	170	Peak
5150	47.65	48.64	54	-6.35	34.6	9.92	45.51	100	170	Average
5240	99.51	100.53	/	/	34.6	9.89	45.51	100	170	Peak
5240	91.28	92.3	/	/	34.6	9.89	45.51	100	170	Average
5350	55.64	56.7	74	-18.36	34.6	9.85	45.51	100	170	Peak
5350	48.3	49.36	54	-5.7	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5240MHz: Fundamental frequency.

802.11ac (40MHz)

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

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	61.43	62.5	74	-12.57	34.52	9.92	45.51	200	325	Peak
5150	50.26	51.33	54	-3.74	34.52	9.92	45.51	200	325	Average
5190	104.06	105.11	/	/	34.55	9.91	45.51	200	325	Peak
5190	96.14	97.19	/	/	34.55	9.91	45.51	200	325	Average
5350	56.53	57.51	74	-17.47	34.68	9.85	45.51	200	325	Peak
5350	47.75	48.73	54	-6.25	34.68	9.85	45.51	200	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
5150	56.85	57.84	74	-17.15	34.6	9.92	45.51	100	170	Peak
5150	48.4	49.39	54	-5.6	34.6	9.92	45.51	100	170	Average
5190	94.61	95.61	/	/	34.6	9.91	45.51	100	170	Peak
5190	86.92	87.92	/	/	34.6	9.91	45.51	100	170	Average
5350	58.62	59.68	74	-15.38	34.6	9.85	45.51	100	170	Peak
5350	47.92	48.98	54	-6.08	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.

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

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	56.24	57.31	74	-17.76	34.52	9.92	45.51	200	325	Peak
5150	48.11	49.18	54	-5.89	34.52	9.92	45.51	200	325	Average
5230	103.78	104.82	/	/	34.58	9.89	45.51	200	325	Peak
5230	95.29	96.33	/	/	34.58	9.89	45.51	200	325	Average
5350	55.51	56.49	74	-18.49	34.68	9.85	45.51	200	325	Peak
5350	48.57	49.55	54	-5.43	34.68	9.85	45.51	200	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
5150	55.63	56.62	74	-18.37	34.6	9.92	45.51	100	170	Peak
5150	47.99	48.98	54	-6.01	34.6	9.92	45.51	100	170	Average
5230	95.41	96.43	/	/	34.6	9.89	45.51	100	170	Peak
5230	86.99	88.01	/	/	34.6	9.89	45.51	100	170	Average
5350	56.92	57.98	74	-17.08	34.6	9.85	45.51	100	170	Peak
5350	47.73	48.79	54	-6.27	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5230MHz: Fundamental frequency.

802.11ac (80MHz)

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

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	59.33	60.4	74	-14.67	34.52	9.92	45.51	200	325	Peak
5150	50.65	51.72	54	-3.35	34.52	9.92	45.51	200	325	Average
5210	99.56	100.6	/	/	34.57	9.9	45.51	200	325	Peak
5210	90.73	91.77	/	/	34.57	9.9	45.51	200	325	Average
5350	55.26	56.24	74	-18.74	34.68	9.85	45.51	200	325	Peak
5350	48.05	49.03	54	-5.95	34.68	9.85	45.51	200	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
5150	56.46	57.45	74	-17.54	34.6	9.92	45.51	100	170	Peak
5150	48.45	49.44	54	-5.55	34.6	9.92	45.51	100	170	Average
5210	91.37	92.38	/	/	34.6	9.9	45.51	100	170	Peak
5210	82.95	83.96	/	/	34.6	9.9	45.51	100	170	Average
5350	54.44	55.5	74	-19.56	34.6	9.85	45.51	100	170	Peak
5350	47.24	48.3	54	-6.76	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.

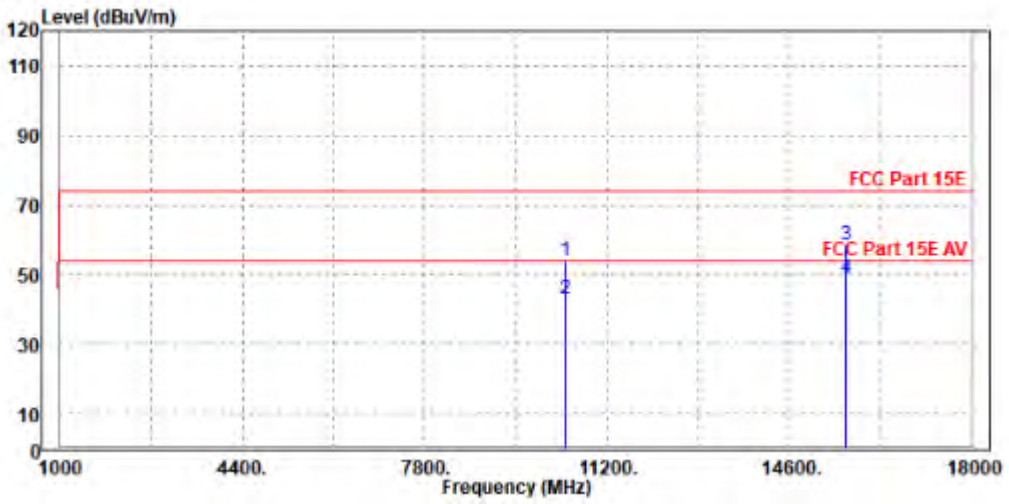
802.11ac (80MHz)

Worst case harmonic:

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

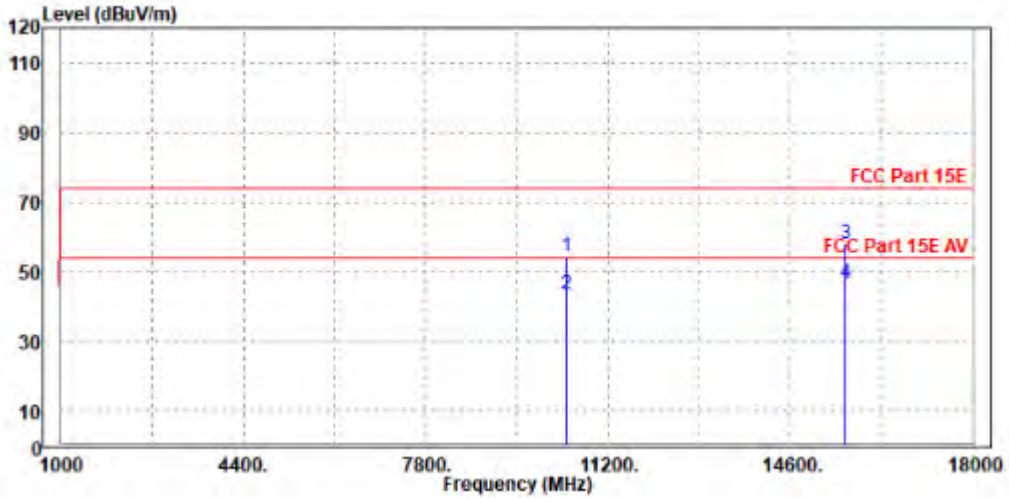
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10420.000	54.05	47.15	74.00	-19.95	6.90	Peak	Horizontal
2	10420.000	42.97	36.07	54.00	-11.03	6.90	Average	Horizontal
3	PK15637.000	58.49	45.36	74.00	-15.51	13.13	Peak	Horizontal
4	PP15637.000	48.74	35.61	54.00	-5.26	13.13	Average	Horizontal



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10418.000	54.50	46.38	74.00	-19.50	8.12	Peak	Vertical
2	10418.000	43.40	35.28	54.00	-10.60	8.12	Average	Vertical
3	PK15630.000	57.74	45.73	74.00	-16.26	12.01	Peak	Vertical
4	PP15630.000	46.60	34.59	54.00	-7.40	12.01	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5210MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

Band 2

802.11a

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

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	55.93	57	74	-18.07	34.52	9.92	45.51	200	325	Peak
5150	47.74	48.81	54	-6.26	34.52	9.92	45.51	200	325	Average
5260	108.34	109.36	/	/	34.61	9.88	45.51	200	325	Peak
5260	100.25	101.27	/	/	34.61	9.88	45.51	200	325	Average
5350	55.34	56.32	74	-18.66	34.68	9.85	45.51	200	325	Peak
5350	48.1	49.08	54	-5.9	34.68	9.85	45.51	200	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
5150	55.58	56.57	74	-18.42	34.6	9.92	45.51	100	170	Peak
5150	47.74	48.73	54	-6.26	34.6	9.92	45.51	100	170	Average
5260	100.02	101.05	/	/	34.6	9.88	45.51	100	170	Peak
5260	91.97	93	/	/	34.6	9.88	45.51	100	170	Average
5350	57.4	58.46	74	-16.6	34.6	9.85	45.51	100	170	Peak
5350	47.2	48.26	54	-6.8	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

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

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	54.12	55.19	74	-19.88	34.52	9.92	45.51	200	325	Peak
5150	47.36	48.43	54	-6.64	34.52	9.92	45.51	200	325	Average
5300	106.58	107.58	/	/	34.64	9.87	45.51	200	325	Peak
5300	99.86	100.86	/	/	34.64	9.87	45.51	200	325	Average
5350	55.27	56.25	74	-18.73	34.68	9.85	45.51	200	325	Peak
5350	48.37	49.35	54	-5.63	34.68	9.85	45.51	200	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
5150	56.29	57.28	74	-17.71	34.6	9.92	45.51	100	170	Peak
5150	47.49	48.48	54	-6.51	34.6	9.92	45.51	100	170	Average
5300	99.95	100.99	/	/	34.6	9.87	45.51	100	170	Peak
5300	90.5	91.54	/	/	34.6	9.87	45.51	100	170	Average
5350	55.07	56.13	74	-18.93	34.6	9.85	45.51	100	170	Peak
5350	47.61	48.67	54	-6.39	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

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

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	56.26	57.33	74	-17.74	34.52	9.92	45.51	200	325	Peak
5150	48.17	49.24	54	-5.83	34.52	9.92	45.51	200	325	Average
5320	107.11	108.1	/	/	34.66	9.86	45.51	200	325	Peak
5320	99	99.99	/	/	34.66	9.86	45.51	200	325	Average
5350	57.69	58.67	74	-16.31	34.68	9.85	45.51	200	325	Peak
5350	49.1	50.08	54	-4.9	34.68	9.85	45.51	200	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
5150	55.7	56.69	74	-18.3	34.6	9.92	45.51	100	170	Peak
5150	47.29	48.28	54	-6.71	34.6	9.92	45.51	100	170	Average
5320	98.36	99.41	/	/	34.6	9.86	45.51	100	170	Peak
5320	91.15	92.2	/	/	34.6	9.86	45.51	100	170	Average
5350	56.75	57.81	74	-17.25	34.6	9.85	45.51	100	170	Peak
5350	47.86	48.92	54	-6.14	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11n (20MHz)

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

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	56.74	57.81	74	-17.26	34.52	9.92	45.51	200	325	Peak
5150	48.25	49.32	54	-5.75	34.52	9.92	45.51	200	325	Average
5260	106.67	107.69	/	/	34.61	9.88	45.51	200	325	Peak
5260	98.71	99.73	/	/	34.61	9.88	45.51	200	325	Average
5350	56.14	57.12	74	-17.86	34.68	9.85	45.51	200	325	Peak
5350	48.29	49.27	54	-5.71	34.68	9.85	45.51	200	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
5150	56.58	57.57	74	-17.42	34.6	9.92	45.51	100	170	Peak
5150	47.29	48.28	54	-6.71	34.6	9.92	45.51	100	170	Average
5260	99.55	100.58	/	/	34.6	9.88	45.51	100	170	Peak
5260	90.05	91.08	/	/	34.6	9.88	45.51	100	170	Average
5350	55.52	56.58	74	-18.48	34.6	9.85	45.51	100	170	Peak
5350	48.81	49.87	54	-5.19	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

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

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	55.16	56.23	74	-18.84	34.52	9.92	45.51	200	325	Peak
5150	47.47	48.54	54	-6.53	34.52	9.92	45.51	200	325	Average
5300	106.28	107.28	/	/	34.64	9.87	45.51	200	325	Peak
5300	98.01	99.01	/	/	34.64	9.87	45.51	200	325	Average
5350	57.76	58.74	74	-16.24	34.68	9.85	45.51	200	325	Peak
5350	48.2	49.18	54	-5.8	34.68	9.85	45.51	200	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
5150	55.31	56.3	74	-18.69	34.6	9.92	45.51	100	170	Peak
5150	47.68	48.67	54	-6.32	34.6	9.92	45.51	100	170	Average
5300	97.08	98.12	/	/	34.6	9.87	45.51	100	170	Peak
5300	90.49	91.53	/	/	34.6	9.87	45.51	100	170	Average
5350	55.16	56.22	74	-18.84	34.6	9.85	45.51	100	170	Peak
5350	47.43	48.49	54	-6.57	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

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

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	55.14	56.21	74	-18.86	34.52	9.92	45.51	200	325	Peak
5150	47.74	48.81	54	-6.26	34.52	9.92	45.51	200	325	Average
5320	106.05	107.04	/	/	34.66	9.86	45.51	200	325	Peak
5320	97.88	98.87	/	/	34.66	9.86	45.51	200	325	Average
5350	58.19	59.17	74	-15.81	34.68	9.85	45.51	200	325	Peak
5350	48.75	49.73	54	-5.25	34.68	9.85	45.51	200	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
5150	55.93	56.92	74	-18.07	34.6	9.92	45.51	100	170	Peak
5150	47.76	48.75	54	-6.24	34.6	9.92	45.51	100	170	Average
5320	97.78	98.83	/	/	34.6	9.86	45.51	100	170	Peak
5320	90.79	91.84	/	/	34.6	9.86	45.51	100	170	Average
5350	56.76	57.82	74	-17.24	34.6	9.85	45.51	100	170	Peak
5350	47.99	49.05	54	-6.01	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11n (40MHz)

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

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	56.46	57.53	74	-17.54	34.52	9.92	45.51	200	325	Peak
5150	48.2	49.27	54	-5.8	34.52	9.92	45.51	200	325	Average
5270	104.08	105.09	/	/	34.62	9.88	45.51	200	325	Peak
5270	95.34	96.35	/	/	34.62	9.88	45.51	200	325	Average
5350	57.68	58.66	74	-16.32	34.68	9.85	45.51	200	325	Peak
5350	47.27	48.25	54	-6.73	34.68	9.85	45.51	200	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
5150	56.12	57.11	74	-17.88	34.6	9.92	45.51	100	170	Peak
5150	47.85	48.84	54	-6.15	34.6	9.92	45.51	100	170	Average
5270	94.56	95.59	/	/	34.6	9.88	45.51	100	170	Peak
5270	86.96	87.99	/	/	34.6	9.88	45.51	100	170	Average
5350	55.73	56.79	74	-18.27	34.6	9.85	45.51	100	170	Peak
5350	47.38	48.44	54	-6.62	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

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

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	55.96	57.03	74	-18.04	34.52	9.92	45.51	200	325	Peak
5150	47.83	48.9	54	-6.17	34.52	9.92	45.51	200	325	Average
5310	102.79	103.79	/	/	34.65	9.86	45.51	200	325	Peak
5310	94.99	95.99	/	/	34.65	9.86	45.51	200	325	Average
5350	57.08	58.06	74	-16.92	34.68	9.85	45.51	200	325	Peak
5350	50.44	51.42	54	-3.56	34.68	9.85	45.51	200	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
5150	55.64	56.63	74	-18.36	34.6	9.92	45.51	100	170	Peak
5150	47.87	48.86	54	-6.13	34.6	9.92	45.51	100	170	Average
5310	94.02	95.07	/	/	34.6	9.86	45.51	100	170	Peak
5310	86.43	87.48	/	/	34.6	9.86	45.51	100	170	Average
5350	54.98	56.04	74	-19.02	34.6	9.85	45.51	100	170	Peak
5350	47.4	48.46	54	-6.6	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.

802.11ac (20MHz)

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

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	55.84	56.91	74	-18.16	34.52	9.92	45.51	200	325	Peak
5150	48.48	49.55	54	-5.52	34.52	9.92	45.51	200	325	Average
5260	107.65	108.67	/	/	34.61	9.88	45.51	200	325	Peak
5260	100.04	101.06	/	/	34.61	9.88	45.51	200	325	Average
5350	55.69	56.67	74	-18.31	34.68	9.85	45.51	200	325	Peak
5350	48.77	49.75	54	-5.23	34.68	9.85	45.51	200	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
5150	55.57	56.56	74	-18.43	34.6	9.92	45.51	100	170	Peak
5150	47.73	48.72	54	-6.27	34.6	9.92	45.51	100	170	Average
5260	99.41	100.44	/	/	34.6	9.88	45.51	100	170	Peak
5260	91.88	92.91	/	/	34.6	9.88	45.51	100	170	Average
5350	55.27	56.33	74	-18.73	34.6	9.85	45.51	100	170	Peak
5350	47.91	48.97	54	-6.09	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5260MHz: Fundamental frequency.

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

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	56.39	57.46	74	-17.61	34.52	9.92	45.51	200	325	Peak
5150	47.87	48.94	54	-6.13	34.52	9.92	45.51	200	325	Average
5300	106.05	107.05	/	/	34.64	9.87	45.51	200	325	Peak
5300	98.58	99.58	/	/	34.64	9.87	45.51	200	325	Average
5350	57.67	58.65	74	-16.33	34.68	9.85	45.51	200	325	Peak
5350	48.04	49.02	54	-5.96	34.68	9.85	45.51	200	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
5150	56.22	57.21	74	-17.78	34.6	9.92	45.51	100	170	Peak
5150	47.91	48.9	54	-6.09	34.6	9.92	45.51	100	170	Average
5300	99.85	100.89	/	/	34.6	9.87	45.51	100	170	Peak
5300	89.68	90.72	/	/	34.6	9.87	45.51	100	170	Average
5350	57.59	58.65	74	-16.41	34.6	9.85	45.51	100	170	Peak
5350	47.36	48.42	54	-6.64	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.

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

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	56.84	57.91	74	-17.16	34.52	9.92	45.51	200	325	Peak
5150	48.32	49.39	54	-5.68	34.52	9.92	45.51	200	325	Average
5320	106.08	107.07	/	/	34.66	9.86	45.51	200	325	Peak
5320	98.21	99.2	/	/	34.66	9.86	45.51	200	325	Average
5350	58.52	59.5	74	-15.48	34.68	9.85	45.51	200	325	Peak
5350	49.58	50.56	54	-4.42	34.68	9.85	45.51	200	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
5150	56.27	57.26	74	-17.73	34.6	9.92	45.51	100	170	Peak
5150	47.25	48.24	54	-6.75	34.6	9.92	45.51	100	170	Average
5320	98.02	99.07	/	/	34.6	9.86	45.51	100	170	Peak
5320	90.34	91.39	/	/	34.6	9.86	45.51	100	170	Average
5350	56.43	57.49	74	-17.57	34.6	9.85	45.51	100	170	Peak
5350	47.98	49.04	54	-6.02	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5320MHz: Fundamental frequency.

802.11ac (40MHz)

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

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	56.79	57.86	74	-17.21	34.52	9.92	45.51	200	325	Peak
5150	48.05	49.12	54	-5.95	34.52	9.92	45.51	200	325	Average
5270	103.87	104.88	/	/	34.62	9.88	45.51	200	325	Peak
5270	95.41	96.42	/	/	34.62	9.88	45.51	200	325	Average
5350	56.36	57.34	74	-17.64	34.68	9.85	45.51	200	325	Peak
5350	48.37	49.35	54	-5.63	34.68	9.85	45.51	200	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
5150	55.17	56.16	74	-18.83	34.6	9.92	45.51	100	185	Peak
5150	47.43	48.42	54	-6.57	34.6	9.92	45.51	100	185	Average
5270	96.17	97.2	/	/	34.6	9.88	45.51	100	185	Peak
5270	88.62	89.65	/	/	34.6	9.88	45.51	100	185	Average
5350	55.11	56.17	74	-18.89	34.6	9.85	45.51	100	185	Peak
5350	47.86	48.92	54	-6.14	34.6	9.85	45.51	100	185	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5270MHz: Fundamental frequency.

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

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	57.05	58.12	74	-16.95	34.52	9.92	45.51	200	325	Peak
5150	48.08	49.15	54	-5.92	34.52	9.92	45.51	200	325	Average
5310	103.19	104.19	/	/	34.65	9.86	45.51	200	325	Peak
5310	94.5	95.5	/	/	34.65	9.86	45.51	200	325	Average
5350	57.1	58.08	74	-16.9	34.68	9.85	45.51	200	325	Peak
5350	49.51	50.49	54	-4.49	34.68	9.85	45.51	200	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
5150	54	54.99	74	-20	34.6	9.92	45.51	100	185	Peak
5150	47.85	48.84	54	-6.15	34.6	9.92	45.51	100	185	Average
5310	95.12	96.17	/	/	34.6	9.86	45.51	100	185	Peak
5310	88.68	89.73	/	/	34.6	9.86	45.51	100	185	Average
5350	55.25	56.31	74	-18.75	34.6	9.85	45.51	100	185	Peak
5350	48.73	49.79	54	-5.27	34.6	9.85	45.51	100	185	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5310MHz: Fundamental frequency.

802.11ac (80MHz)

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

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	56.8	57.87	74	-17.2	34.52	9.92	45.51	200	325	Peak
5150	48.06	49.13	54	-5.94	34.52	9.92	45.51	200	325	Average
5290	98.04	99.05	/	/	34.63	9.87	45.51	200	325	Peak
5290	90.93	91.94	/	/	34.63	9.87	45.51	200	325	Average
5350	58.26	59.24	74	-15.74	34.68	9.85	45.51	200	325	Peak
5350	50.73	51.71	54	-3.27	34.68	9.85	45.51	200	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
5150	55.4	56.39	74	-18.6	34.6	9.92	45.51	100	170	Peak
5150	48.04	49.03	54	-5.96	34.6	9.92	45.51	100	170	Average
5290	91.42	92.46	/	/	34.6	9.87	45.51	100	170	Peak
5290	83.42	84.46	/	/	34.6	9.87	45.51	100	170	Average
5350	56.81	57.87	74	-17.19	34.6	9.85	45.51	100	170	Peak
5350	48.71	49.77	54	-5.29	34.6	9.85	45.51	100	170	Average

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
   Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.