

VARIANT FCC TEST REPORT

(Part 15, Subpart E)

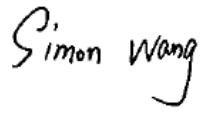
Applicant:	Nokia of America Corp
Address:	3201, Olympus Blvd, Dallas, TX 75019, USA

Manufacturer or Supplier:	Power Idea Technology (Shenzhen) Co., Ltd.
Address:	4th Floor, A Section, Languang Science&technology Building, No.7 Xinxi RD, Hi-Tech Industrial Park North, Nanshan District, ShenZhen, P.R.C.
Product:	Nokia Industrial 5G handheld HHRA501x
Brand Name:	Nokia
Model Name:	HHRA501a
Marketing Name:	Nokia Industrial 5G handheld HHRA501a
FCC ID:	2AVO2-HHRA501A
Date of tests:	Nov. 24, 2022 ~ Feb. 03, 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
 Date: Oct. 23, 2023	 Date: Oct. 23, 2023

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22110036RF03	Original release	Feb. 03, 2023
W7L-P23100014RF03	Based on the original product changing the model name and FCC ID, brand name, marketing name, product name, battery model, applicant and manufacturer information.	Oct. 23, 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 A and Appendix B.
2. WLAN(normal mode& RU-OFDMA)5G supports SISO&MIMO mode, the whole testing have assessed the MIMO mode by referring to their maximum conducted power.
3. 11ax OFDMA Mode Only support full RU tone.
4. RSE had been tested on SISO&MIMO mode of EUT. The worst case was found on MIMO mode, only the worst case data had been reported in the report.

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	Nokia Industrial 5G handheld HHRA501x
BRAND NAME	Nokia
MODEL NAME	HHRA501a
MARKETING NAME	Nokia Industrial 5G handheld HHRA501a
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.7Vdc (Li-ion, battery)
MODULATION	OFDM, OFDMA
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 802.11ax: up to 1201Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802. 802.11ac/ax (80MHz)/ 802.11ax(80MRU996) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802.11ac/ax (80MHz)/ 802.11ax(80M RU 996) 5500 ~ 5720MHz: 12 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 6 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 3 for 802.11ac/ax (80MHz)/ 802.11ax(80M RU 996) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n/ac/ax (20MHz)/ 802.11ax(20M RU 242) 2 for 802.11n/ac/ax (40MHz)/ 802.11ax(40M RU 484) 1 for 802.11ac/ax (80MHz)/ 802.11ax(80MRU 996)
AVERAGE POWER	44.39 mW for 5180 ~ 5240MHz



	41.84 mW for 5260 ~ 5320MHz 41.05 mW for 5500 ~ 5720MHz 41.05 mW for 5745 ~ 5825MHz
ANTENNA TYPE	PIFA Antenna
ANTENNA GAIN	ANT 1: -3dBi for 5180 ~ 5240MHz -3dBi for 5260 ~ 5320MHz -3dBi for 5500 ~ 5720MHz -3dBi for 5745 ~ 5825MHz ANT 2: -1.8dBi for 5180 ~ 5240MHz -1.8dBi for 5260 ~ 5320MHz -1.8dBi for 5500 ~ 5720MHz -1.8dBi for 5745 ~ 5825MHz
HW VERSION	V02
SW VERSION	IS540_ROW_00.00_1_20221017
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:

- 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/ax (20MHz)	2TX/2RX
802.11n/802.11ac/ax (40MHz)	2TX/2RX
802.11ac/ax (80MHz)	2TX/2RX
802.11ax (20MHz RU 242)	2TX/2RX
802.11ax (40MHz RU 484)	2TX/2RX
802.11ax (80MHz RU 996)	2TX/2RX

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

**List of Accessory:**

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	N/A	FPR Connectivity Technology Inc.	BL440ACP	Capacity: 3.7Vdc, 4400mAh
AC Adapter	N/A	SHENZHEN SHI YINGYUAN POWER SUPPLY TECHNOLOGY CO., LTD.	ICP12-050-2000B	I/P: 100-240Vac, 0.3A, O/P: 5.0Vdc, 2A
USB Cable 1	N/A	Winpower Technology Co., LTD	PROTECTOR 2.0	Signal Line, 1.0meter
USB Cable 2	N/A	Winpower Technology Co., LTD	USB2.0	Signal Line, 1.0meter

2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

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/ax (40MHz)/ 802.11ax (40MHz RU 484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

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/ax (40MHz)/ 802.11ax (40MHz RU 484):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		

FOR 5500 ~ 5720MHz

12 channels are provided for 802.11a, 802.11n, 802.11ac/ax (20MHz)/ 802.11ax (20MHz RU 242):

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/ax (40MHz)/ 802.11ax (40MHz RU 484):

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/ax (80MHz)/ 802.11ax (80MHz RU 996):

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/ax (20MHz)/ 802.11ax (20MHz RU 242):

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/ax (40MHz)/ 802.11ax (40MHz RU 484):

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

1 channel is provided for 802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996):

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 (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	802.11ax (40MHz RU 484)	5745-5825	142 to 159	159	OFDMA	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/ax (20MHz)/ 802.11ax (20MHz RU 242)		36 to 48	36, 48	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		42	42	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		106 to 138	106, 138	OFDM, OFDMA	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157, 165	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		144 to 165	144, 149, 157, 165	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		142 to 159	142, 151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		138 to 155	138, 155	OFDM, OFDMA	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	802.11ax (40MHz RU 484)	5745-5825	142 to 159	159	OFDMA	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/ax (20MHz)/ 802.11ax (20MHz RU 242)		36 to 48	36, 48	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		42	42	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		102 to 142	102, 110, 134, 142	OFDM,	MCS0



					OFDMA	
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		106 to 138	106, 138	OFDM, OFDMA	MCS0
A	802.11a		144 to 165	144, 149, 157,165	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		144 to 165	144, 149, 157,165	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)	5745-5825	142 to 159	142, 151, 159	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		138,155	138, 155	OFDM, OFDMA	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	MODULATIO N	DATA RATE (Mbps)
A	802.11a	5180-5240	36 to 48	36, 48	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		36 to 48	36, 48	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		38 to 46	38, 46	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		42	42	OFDM, OFDMA	MCS0
A	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		52 to 64	52, 60, 64	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		54 to 62	54, 62	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		58	58	OFDM, OFDMA	MCS0
A	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		100 to 144	100, 116, 140, 144	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax (40MHz RU 484)		102 to 142	102, 110, 134, 142	OFDM, OFDMA	MCS0
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		106 to 138	106, 138	OFDM, OFDMA	MCS0
A	802.11a	5745-5825	144 to 165	144, 149, 157, 165	OFDM	6.0
A	802.11an/ac/ax (20MHz)/ 802.11ax (20MHz RU 242)		144 to 165	144, 149, 157, 165	OFDM, OFDMA	MCS0
A	802.11an/ac/ax (40MHz)/ 802.11ax		142 to 159	142, 151, 159	OFDM,	MCS0



	(40MHz RU 484)				OFDMA	
A	802.11ac/ax (80MHz)/ 802.11ax (80MHz RU 996)		138,155	138, 155	OFDM, OFDMA	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
RE≥1G	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
PLC	25deg. C, 52%RH	DC 5V By Adapter	James Fu
APCM	25deg. C, 60%RH	DC 3.7V By DC Supply	James Fu

2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix A/B Of this test report.

WORST-CASE DATA:

Measured Duty Cycle		
Mode		Duty Cycle [%]
		ANT1/2
5GHZ	11a	99.53
	11n20	99.82
	11n40	99.82
	11ac20	99.82
	11ac40	99.82
	11ac80	99.82
	11ax 20	99.82
	11ax 40	99.82
	11ax 80	99.82
	11ax 20 (RU 242)	99.63
	11ax 40 (RU 484)	99.63
	11ax 80 (RU 996)	99.63

Note:

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

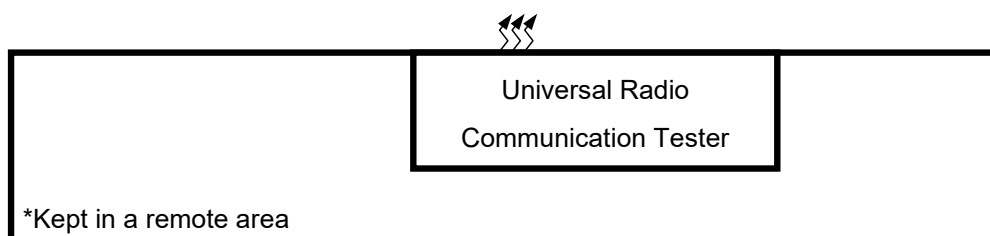
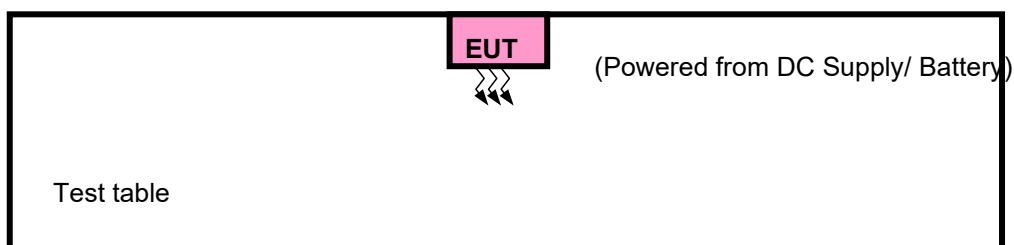
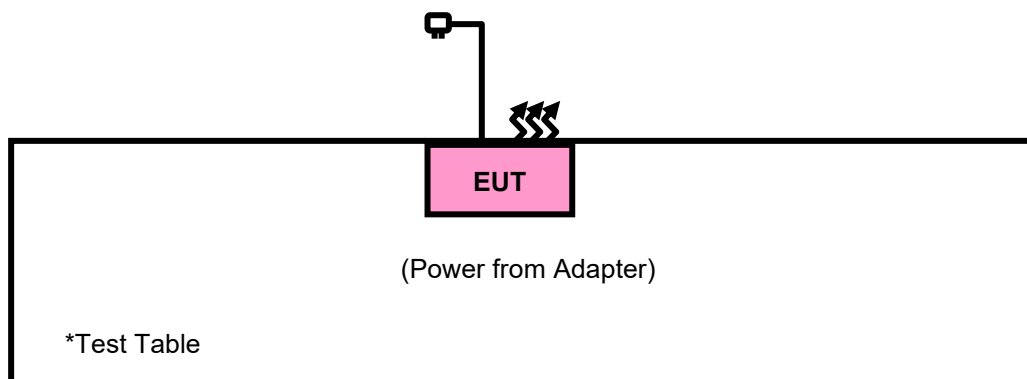
2.4 DESCRIPTION OF SUPPORT UNITS

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

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 : 68.2
	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:

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

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	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 24, 22	Aug. 23, 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	1505	Jun. 02,22	Jun. 01,23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 21,22	Feb. 20,23
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. 21,22	Feb.20,23
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 24,22	Aug. 23,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 06,22	May. 05,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep. 04,22	Sep. 03,23

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:

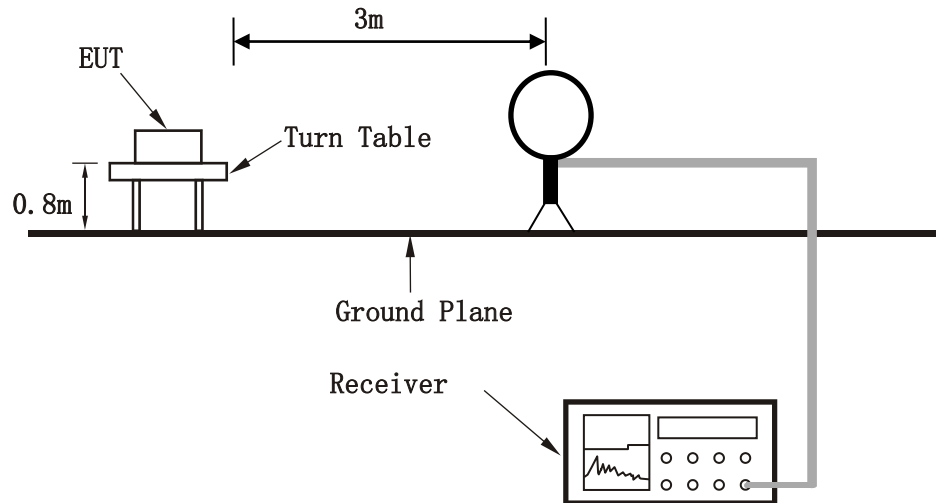
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency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

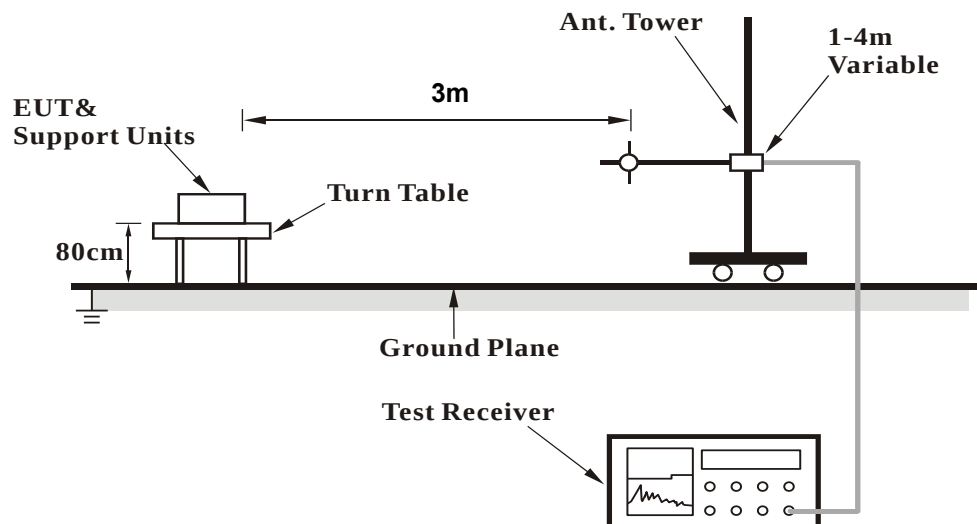
No deviation.

3.1.6 TEST SETUP

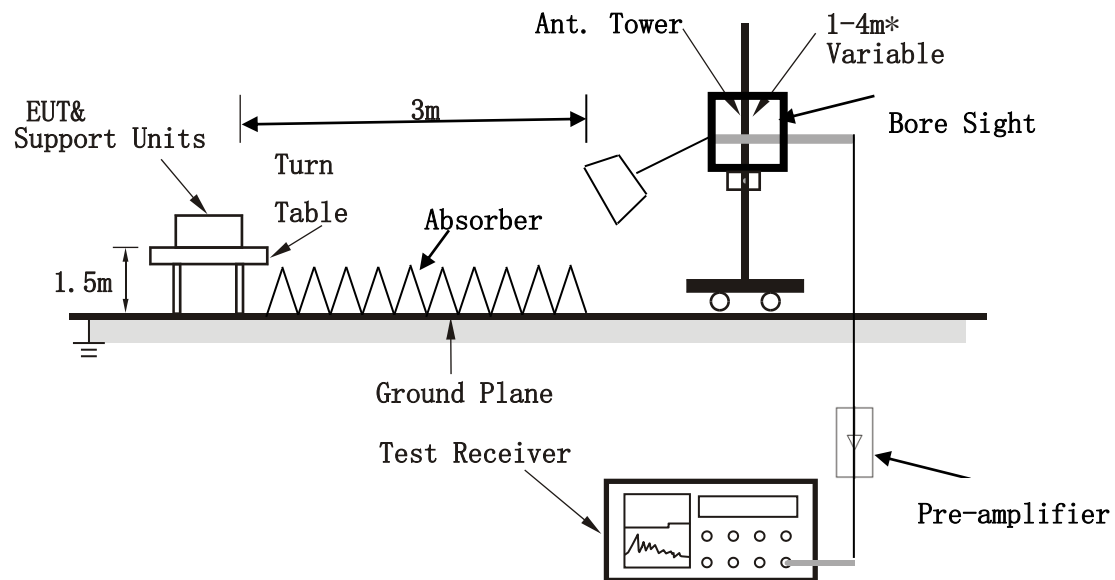
<Frequency Range 9KHz~30MHz >



< 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

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- 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 4

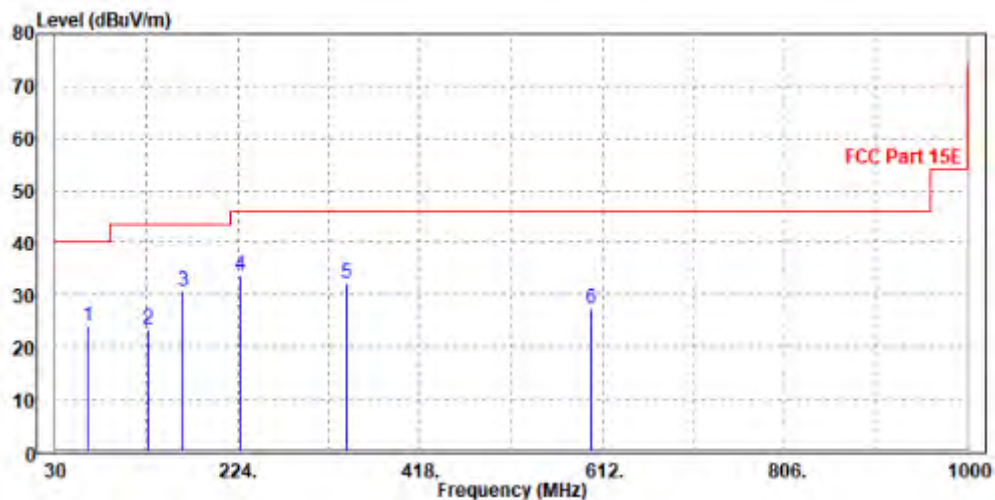
802.11ax (40MHz) (RU484):

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
64.920	24.05	52.08	40.00	-15.95	8.46	0.46	36.95	100	360	QP
127.970	23.30	50.62	43.50	-20.20	8.76	0.60	36.68	100	360	QP
165.800	30.77	55.51	43.50	-12.73	11.05	0.68	36.47	100	360	QP
226.910	33.82	56.83	46.00	-12.18	12.48	0.79	36.28	100	360	QP
340.400	32.32	52.77	46.00	-13.68	14.89	0.98	36.32	100	360	QP
599.390	27.48	43.28	46.00	-18.52	19.69	1.36	36.85	100	360	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.



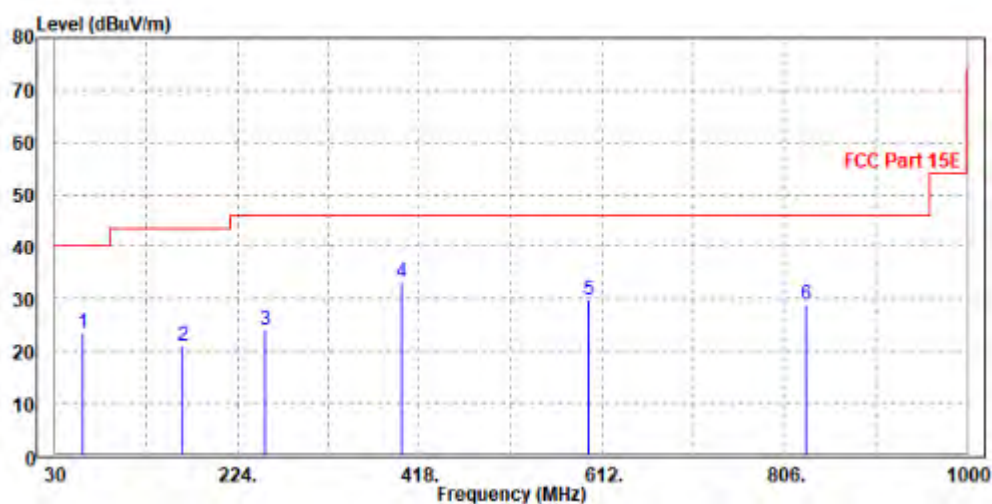


CHANNEL	Channel 159	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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
59.100	23.53	51.34	40.00	-16.47	8.70	0.44	36.95	100	0	QP
165.800	21.07	45.87	43.50	-22.43	10.99	0.68	36.47	100	0	QP
253.100	23.89	46.63	46.00	-22.11	12.69	0.84	36.27	100	0	QP
398.600	33.30	52.38	46.00	-12.70	16.27	1.07	36.42	100	0	QP
597.450	29.81	45.74	46.00	-16.19	19.55	1.36	36.84	100	0	QP
829.280	28.88	42.53	46.00	-17.12	21.98	1.62	37.25	100	0	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.





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ABOVE 1GHz WORST-CASE DATA:

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

Band 1

802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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
5150.000	55.22	56.29	74.00	-18.78	34.52	9.92	45.51	100	350	Peak
5150.000	49.71	50.78	54.00	-4.29	34.52	9.92	45.51	100	350	Average
5180.000	100.85	101.91	/	/	34.54	9.91	45.51	100	350	Peak
5180.000	95.19	96.25	/	/	34.54	9.91	45.51	100	350	Average
5350.000	56.34	57.32	74.00	-17.66	34.68	9.85	45.51	100	350	Peak
5350.000	48.19	49.17	54.00	-5.81	34.68	9.85	45.51	100	350	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
5150.000	56.58	57.57	74.00	-17.42	34.60	9.92	45.51	100	90	Peak
5150.000	49.92	50.91	54.00	-4.08	34.60	9.92	45.51	100	90	Average
5180.000	104.15	105.15	/	/	34.60	9.91	45.51	100	90	Peak
5180.000	98.43	99.43	/	/	34.60	9.91	45.51	100	90	Average
5350.000	54.14	55.20	74.00	-19.86	34.60	9.85	45.51	100	90	Peak
5350.000	48.35	49.41	54.00	-5.65	34.60	9.85	45.51	100	90	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
5150.000	55.72	56.79	74.00	-18.28	34.52	9.92	45.51	100	350	Peak
5150.000	49.98	51.05	54.00	-4.02	34.52	9.92	45.51	100	350	Average
5200.000	99.99	101.04	/	/	34.56	9.90	45.51	100	350	Peak
5200.000	94.44	95.49	/	/	34.56	9.90	45.51	100	350	Average
5350.000	54.34	55.32	74.00	-19.66	34.68	9.85	45.51	100	350	Peak
5350.000	47.94	48.92	54.00	-6.06	34.68	9.85	45.51	100	350	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
5150.000	56.90	57.89	74.00	-17.10	34.60	9.92	45.51	100	90	Peak
5150.000	49.47	50.46	54.00	-4.53	34.60	9.92	45.51	100	90	Average
5200.000	104.42	105.43	/	/	34.60	9.90	45.51	100	90	Peak
5200.000	98.48	99.49	/	/	34.60	9.90	45.51	100	90	Average
5350.000	53.52	54.58	74.00	-20.48	34.60	9.85	45.51	100	90	Peak
5350.000	47.58	48.64	54.00	-6.42	34.60	9.85	45.51	100	90	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
5150.000	56.51	57.58	74.00	-17.49	34.52	9.92	45.51	100	350	Peak
5150.000	49.32	50.39	54.00	-4.68	34.52	9.92	45.51	100	350	Average
5240.000	100.15	101.18	/	/	34.59	9.89	45.51	100	350	Peak
5240.000	93.59	94.62	/	/	34.59	9.89	45.51	100	350	Average
5350.000	53.14	54.12	74.00	-20.86	34.68	9.85	45.51	100	350	Peak
5350.000	48.38	49.36	54.00	-5.62	34.68	9.85	45.51	100	350	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
5150.000	56.72	57.71	74.00	-17.28	34.60	9.92	45.51	100	90	Peak
5150.000	49.84	50.83	54.00	-4.16	34.60	9.92	45.51	100	90	Average
5240.000	103.90	104.92	/	/	34.60	9.89	45.51	100	90	Peak
5240.000	97.14	98.16	/	/	34.60	9.89	45.51	100	90	Average
5350.000	53.26	54.32	74.00	-20.74	34.60	9.85	45.51	100	90	Peak
5350.000	48.11	49.17	54.00	-5.89	34.60	9.85	45.51	100	90	Average

REMARKS:

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



**BUREAU
VERITAS**

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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
5150.000	54.65	55.72	74.00	-19.35	34.52	9.92	45.51	100	350	Peak
5150.000	50.13	51.20	54.00	-3.87	34.52	9.92	45.51	100	350	Average
5180.000	99.28	100.34	/	/	34.54	9.91	45.51	100	350	Peak
5180.000	92.96	94.02	/	/	34.54	9.91	45.51	100	350	Average
5350.000	53.69	54.67	74.00	-20.31	34.68	9.85	45.51	100	350	Peak
5350.000	48.33	49.31	54.00	-5.67	34.68	9.85	45.51	100	350	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
5150.000	54.98	55.97	74.00	-19.02	34.60	9.92	45.51	100	90	Peak
5150.000	50.19	51.18	54.00	-3.81	34.60	9.92	45.51	100	90	Average
5180.000	102.67	103.67	/	/	34.60	9.91	45.51	100	90	Peak
5180.000	96.24	97.24	/	/	34.60	9.91	45.51	100	90	Average
5350.000	54.04	55.10	74.00	-19.96	34.60	9.85	45.51	100	90	Peak
5350.000	47.62	48.68	54.00	-6.38	34.60	9.85	45.51	100	90	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)
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
5150.000	54.70	55.77	74.00	-19.30	34.52	9.92	45.51	100	350	Peak
5150.000	49.79	50.86	54.00	-4.21	34.52	9.92	45.51	100	350	Average
5200.000	98.04	99.09	/	/	34.56	9.90	45.51	100	350	Peak
5200.000	92.24	93.29	/	/	34.56	9.90	45.51	100	350	Average
5350.000	53.56	54.54	74.00	-20.44	34.68	9.85	45.51	100	350	Peak
5350.000	48.09	49.07	54.00	-5.91	34.68	9.85	45.51	100	350	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
5150.000	56.77	57.76	74.00	-17.23	34.60	9.92	45.51	100	90	Peak
5150.000	49.95	50.94	54.00	-4.05	34.60	9.92	45.51	100	90	Average
5200.000	102.19	103.20	/	/	34.60	9.90	45.51	100	90	Peak
5200.000	95.78	96.79	/	/	34.60	9.90	45.51	100	90	Average
5350.000	54.36	55.42	74.00	-19.64	34.60	9.85	45.51	100	90	Peak
5350.000	48.19	49.25	54.00	-5.81	34.60	9.85	45.51	100	90	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
5150.000	56.25	57.32	74.00	-17.75	34.52	9.92	45.51	100	350	Peak
5150.000	49.99	51.06	54.00	-4.01	34.52	9.92	45.51	100	350	Average
5240.000	98.61	99.64	/	/	34.59	9.89	45.51	100	350	Peak
5240.000	91.26	92.29	/	/	34.59	9.89	45.51	100	350	Average
5350.000	54.86	55.84	74.00	-19.14	34.68	9.85	45.51	100	350	Peak
5350.000	47.91	48.89	54.00	-6.09	34.68	9.85	45.51	100	350	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
5150.000	56.73	57.72	74.00	-17.27	34.60	9.92	45.51	100	90	Peak
5150.000	50.29	51.28	54.00	-3.71	34.60	9.92	45.51	100	90	Average
5240.000	102.63	103.65	/	/	34.60	9.89	45.51	100	90	Peak
5240.000	94.98	96.00	/	/	34.60	9.89	45.51	100	90	Average
5350.000	53.07	54.13	74.00	-20.93	34.60	9.85	45.51	100	90	Peak
5350.000	47.82	48.88	54.00	-6.18	34.60	9.85	45.51	100	90	Average

REMARKS:

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



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Test Report No.: W7L-P23100014RF03

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
5150.000	55.15	56.22	74.00	-18.85	34.52	9.92	45.51	100	350	Peak
5150.000	49.88	50.95	54.00	-4.12	34.52	9.92	45.51	100	350	Average
5190.000	95.73	96.78	/	/	34.55	9.91	45.51	100	350	Peak
5190.000	89.88	90.93	/	/	34.55	9.91	45.51	100	350	Average
5350.000	56.62	57.60	74.00	-17.38	34.68	9.85	45.51	100	350	Peak
5350.000	48.43	49.41	54.00	-5.57	34.68	9.85	45.51	100	350	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
5150.000	54.07	55.06	74.00	-19.93	34.60	9.92	45.51	100	90	Peak
5150.000	50.42	51.41	54.00	-3.58	34.60	9.92	45.51	100	90	Average
5190.000	99.42	100.42	/	/	34.60	9.91	45.51	100	90	Peak
5190.000	93.54	94.54	/	/	34.60	9.91	45.51	100	90	Average
5350.000	53.29	54.35	74.00	-20.71	34.60	9.85	45.51	100	90	Peak
5350.000	48.16	49.22	54.00	-5.84	34.60	9.85	45.51	100	90	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)
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
5150.000	54.18	55.25	74.00	-19.82	34.52	9.92	45.51	100	350	Peak
5150.000	49.88	50.95	54.00	-4.12	34.52	9.92	45.51	100	350	Average
5230.000	95.24	96.28	/	/	34.58	9.89	45.51	100	350	Peak
5230.000	88.29	89.33	/	/	34.58	9.89	45.51	100	350	Average
5350.000	53.28	54.26	74.00	-20.72	34.68	9.85	45.51	100	350	Peak
5350.000	47.75	48.73	54.00	-6.25	34.68	9.85	45.51	100	350	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
5150.000	54.71	55.70	74.00	-19.29	34.60	9.92	45.51	100	90	Peak
5150.000	50.16	51.15	54.00	-3.84	34.60	9.92	45.51	100	90	Average
5230.000	98.51	99.53	/	/	34.60	9.89	45.51	100	90	Peak
5230.000	92.44	93.46	/	/	34.60	9.89	45.51	100	90	Average
5350.000	53.40	54.46	74.00	-20.60	34.60	9.85	45.51	100	90	Peak
5350.000	48.04	49.10	54.00	-5.96	34.60	9.85	45.51	100	90	Average

REMARKS:

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



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Test Report No.: W7L-P23100014RF03

802.11ac (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
5150.000	55.23	56.30	74.00	-18.77	34.52	9.92	45.51	100	350	Peak
5150.000	49.68	50.75	54.00	-4.32	34.52	9.92	45.51	100	350	Average
5180.000	97.98	99.04	/	/	34.54	9.91	45.51	100	350	Peak
5180.000	91.90	92.96	/	/	34.54	9.91	45.51	100	350	Average
5350.000	53.06	54.04	74.00	-20.94	34.68	9.85	45.51	100	350	Peak
5350.000	47.99	48.97	54.00	-6.01	34.68	9.85	45.51	100	350	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
5150.000	55.96	56.95	74.00	-18.04	34.60	9.92	45.51	100	90	Peak
5150.000	49.57	50.56	54.00	-4.43	34.60	9.92	45.51	100	90	Average
5180.000	101.75	102.75	/	/	34.60	9.91	45.51	100	90	Peak
5180.000	95.39	96.39	/	/	34.60	9.91	45.51	100	90	Average
5350.000	55.75	56.81	74.00	-18.25	34.60	9.85	45.51	100	90	Peak
5350.000	47.85	48.91	54.00	-6.15	34.60	9.85	45.51	100	90	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)
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
5150.000	54.45	55.52	74.00	-19.55	34.52	9.92	45.51	100	350	Peak
5150.000	49.50	50.57	54.00	-4.50	34.52	9.92	45.51	100	350	Average
5200.000	97.79	98.84	/	/	34.56	9.90	45.51	100	350	Peak
5200.000	91.33	92.38	/	/	34.56	9.90	45.51	100	350	Average
5350.000	56.66	57.64	74.00	-17.34	34.68	9.85	45.51	100	350	Peak
5350.000	49.14	50.12	54.00	-4.86	34.68	9.85	45.51	100	350	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
5150.000	55.92	56.91	74.00	-18.08	34.60	9.92	45.51	100	90	Peak
5150.000	49.61	50.60	54.00	-4.39	34.60	9.92	45.51	100	90	Average
5200.000	101.06	102.07	/	/	34.60	9.90	45.51	100	90	Peak
5200.000	95.17	96.18	/	/	34.60	9.90	45.51	100	90	Average
5350.000	54.58	55.64	74.00	-19.42	34.60	9.85	45.51	100	90	Peak
5350.000	47.93	48.99	54.00	-6.07	34.60	9.85	45.51	100	90	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
5150.000	55.38	56.45	74.00	-18.62	34.52	9.92	45.51	100	350	Peak
5150.000	49.80	50.87	54.00	-4.20	34.52	9.92	45.51	100	350	Average
5240.000	97.82	98.85	/	/	34.59	9.89	45.51	100	350	Peak
5240.000	90.50	91.53	/	/	34.59	9.89	45.51	100	350	Average
5350.000	53.81	54.79	74.00	-20.19	34.68	9.85	45.51	100	350	Peak
5350.000	49.46	50.44	54.00	-4.54	34.68	9.85	45.51	100	350	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
5150.000	56.76	57.75	74.00	-17.24	34.60	9.92	45.51	100	90	Peak
5150.000	49.66	50.65	54.00	-4.34	34.60	9.92	45.51	100	90	Average
5240.000	101.63	102.65	/	/	34.60	9.89	45.51	100	90	Peak
5240.000	93.96	94.98	/	/	34.60	9.89	45.51	100	90	Average
5350.000	53.68	54.74	74.00	-20.32	34.60	9.85	45.51	100	90	Peak
5350.000	48.03	49.09	54.00	-5.97	34.60	9.85	45.51	100	90	Average

REMARKS:

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



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Test Report No.: W7L-P23100014RF03

802.11ac (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
5150.000	55.49	56.56	74.00	-18.51	34.52	9.92	45.51	100	350	Peak
5150.000	49.80	50.87	54.00	-4.20	34.52	9.92	45.51	100	350	Average
5190.000	94.41	95.46	/	/	34.55	9.91	45.51	100	350	Peak
5190.000	89.55	90.60	/	/	34.55	9.91	45.51	100	350	Average
5350.000	53.29	54.27	74.00	-20.71	34.68	9.85	45.51	100	350	Peak
5350.000	48.06	49.04	54.00	-5.94	34.68	9.85	45.51	100	350	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
5150.000	55.97	56.96	74.00	-18.03	34.60	9.92	45.51	100	90	Peak
5150.000	49.86	50.85	54.00	-4.14	34.60	9.92	45.51	100	90	Average
5190.000	98.74	99.74	/	/	34.60	9.91	45.51	100	90	Peak
5190.000	93.11	94.11	/	/	34.60	9.91	45.51	100	90	Average
5350.000	53.67	54.73	74.00	-20.33	34.60	9.85	45.51	100	90	Peak
5350.000	47.66	48.72	54.00	-6.34	34.60	9.85	45.51	100	90	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)
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
5150.000	54.51	55.58	74.00	-19.49	34.52	9.92	45.51	100	350	Peak
5150.000	49.94	51.01	54.00	-4.06	34.52	9.92	45.51	100	350	Average
5230.000	93.82	94.86	/	/	34.58	9.89	45.51	100	350	Peak
5230.000	88.03	89.07	/	/	34.58	9.89	45.51	100	350	Average
5350.000	54.01	54.99	74.00	-19.99	34.68	9.85	45.51	100	350	Peak
5350.000	47.70	48.68	54.00	-6.30	34.68	9.85	45.51	100	350	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
5150.000	54.02	55.01	74.00	-19.98	34.60	9.92	45.51	100	90	Peak
5150.000	49.67	50.66	54.00	-4.33	34.60	9.92	45.51	100	90	Average
5230.000	98.07	99.09	/	/	34.60	9.89	45.51	100	90	Peak
5230.000	92.51	93.53	/	/	34.60	9.89	45.51	100	90	Average
5350.000	55.39	56.45	74.00	-18.61	34.60	9.85	45.51	100	90	Peak
5350.000	48.08	49.14	54.00	-5.92	34.60	9.85	45.51	100	90	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)
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
5150.000	55.47	56.54	74.00	-18.53	34.52	9.92	45.51	100	350	Peak
5150.000	49.67	50.74	54.00	-4.33	34.52	9.92	45.51	100	350	Average
5210.000	89.15	90.19	/	/	34.57	9.90	45.51	100	350	Peak
5210.000	84.53	85.57	/	/	34.57	9.90	45.51	100	350	Average
5350.000	53.44	54.42	74.00	-20.56	34.68	9.85	45.51	100	350	Peak
5350.000	48.03	49.01	54.00	-5.97	34.68	9.85	45.51	100	350	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
5150.000	55.15	56.14	74.00	-18.85	34.60	9.92	45.51	100	90	Peak
5150.000	50.08	51.07	54.00	-3.92	34.60	9.92	45.51	100	90	Average
5210.000	92.98	93.99	/	/	34.60	9.90	45.51	100	90	Peak
5210.000	88.10	89.11	/	/	34.60	9.90	45.51	100	90	Average
5350.000	54.25	55.31	74.00	-19.75	34.60	9.85	45.51	100	90	Peak
5350.000	47.94	49.00	54.00	-6.06	34.60	9.85	45.51	100	90	Average

REMARKS:

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



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Test Report No.: W7L-P23100014RF03

802.11ax (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
5150.000	57.48	58.55	74.00	-16.52	34.52	9.92	45.51	100	350	Peak
5150.000	49.55	50.62	54.00	-4.45	34.52	9.92	45.51	100	350	Average
5180.000	99.64	100.70	/	/	34.54	9.91	45.51	100	350	Peak
5180.000	90.66	91.72	/	/	34.54	9.91	45.51	100	350	Average
5350.000	53.22	54.20	74.00	-20.78	34.68	9.85	45.51	100	350	Peak
5350.000	47.52	48.50	54.00	-6.48	34.68	9.85	45.51	100	350	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
5150.000	56.62	57.61	74.00	-17.38	34.60	9.92	45.51	100	90	Peak
5150.000	49.64	50.63	54.00	-4.36	34.60	9.92	45.51	100	90	Average
5180.000	103.18	104.18	/	/	34.60	9.91	45.51	100	90	Peak
5180.000	94.35	95.35	/	/	34.60	9.91	45.51	100	90	Average
5350.000	54.82	55.88	74.00	-19.18	34.60	9.85	45.51	100	90	Peak
5350.000	47.61	48.67	54.00	-6.39	34.60	9.85	45.51	100	90	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)
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
5150.000	54.87	55.94	74.00	-19.13	34.52	9.92	45.51	100	350	Peak
5150.000	49.22	50.29	54.00	-4.78	34.52	9.92	45.51	100	350	Average
5200.000	98.83	99.88	/	/	34.56	9.90	45.51	100	350	Peak
5200.000	90.38	91.43	/	/	34.56	9.90	45.51	100	350	Average
5350.000	53.76	54.74	74.00	-20.24	34.68	9.85	45.51	100	350	Peak
5350.000	47.16	48.14	54.00	-6.84	34.68	9.85	45.51	100	350	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
5150.000	54.87	55.86	74.00	-19.13	34.60	9.92	45.51	100	90	Peak
5150.000	50.11	51.10	54.00	-3.89	34.60	9.92	45.51	100	90	Average
5200.000	102.20	103.21	/	/	34.60	9.90	45.51	100	90	Peak
5200.000	94.03	95.04	/	/	34.60	9.90	45.51	100	90	Average
5350.000	54.11	55.17	74.00	-19.89	34.60	9.85	45.51	100	90	Peak
5350.000	47.70	48.76	54.00	-6.30	34.60	9.85	45.51	100	90	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
5150.000	55.14	56.21	74.00	-18.86	34.52	9.92	45.51	100	350	Peak
5150.000	49.64	50.71	54.00	-4.36	34.52	9.92	45.51	100	350	Average
5240.000	99.12	100.15	/	/	34.59	9.89	45.51	100	350	Peak
5240.000	88.66	89.69	/	/	34.59	9.89	45.51	100	350	Average
5350.000	53.35	54.33	74.00	-20.65	34.68	9.85	45.51	100	350	Peak
5350.000	48.06	49.04	54.00	-5.94	34.68	9.85	45.51	100	350	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
5150.000	55.13	56.12	74.00	-18.87	34.60	9.92	45.51	100	90	Peak
5150.000	49.34	50.33	54.00	-4.66	34.60	9.92	45.51	100	90	Average
5240.000	102.14	103.16	/	/	34.60	9.89	45.51	100	90	Peak
5240.000	92.59	93.61	/	/	34.60	9.89	45.51	100	90	Average
5350.000	54.00	55.06	74.00	-20.00	34.60	9.85	45.51	100	90	Peak
5350.000	47.65	48.71	54.00	-6.35	34.60	9.85	45.51	100	90	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P23100014RF03

802.11ax (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
5150.000	54.49	55.56	74.00	-19.51	34.52	9.92	45.51	100	350	Peak
5150.000	49.45	50.52	54.00	-4.55	34.52	9.92	45.51	100	350	Average
5190.000	95.50	96.55	/	/	34.55	9.91	45.51	100	350	Peak
5190.000	87.97	89.02	/	/	34.55	9.91	45.51	100	350	Average
5350.000	55.07	56.05	74.00	-18.93	34.68	9.85	45.51	100	350	Peak
5350.000	48.21	49.19	54.00	-5.79	34.68	9.85	45.51	100	350	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
5150.000	54.45	55.44	74.00	-19.55	34.60	9.92	45.51	100	350	Peak
5150.000	49.92	50.91	54.00	-4.08	34.60	9.92	45.51	100	350	Average
5190.000	98.49	99.49	/	/	34.60	9.91	45.51	100	350	Peak
5190.000	91.58	92.58	/	/	34.60	9.91	45.51	100	350	Average
5350.000	53.88	54.94	74.00	-20.12	34.60	9.85	45.51	100	350	Peak
5350.000	47.81	48.87	54.00	-6.19	34.60	9.85	45.51	100	350	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)
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
5150.000	54.40	55.47	74.00	-19.60	34.52	9.92	45.51	100	350	Peak
5150.000	49.63	50.70	54.00	-4.37	34.52	9.92	45.51	100	350	Average
5230.000	94.62	95.66	/	/	34.58	9.89	45.51	100	350	Peak
5230.000	85.79	86.83	/	/	34.58	9.89	45.51	100	350	Average
5350.000	55.18	56.16	74.00	-18.82	34.68	9.85	45.51	100	350	Peak
5350.000	47.76	48.74	54.00	-6.24	34.68	9.85	45.51	100	350	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
5150.000	54.03	55.02	74.00	-19.97	34.60	9.92	45.51	100	90	Peak
5150.000	49.66	50.65	54.00	-4.34	34.60	9.92	45.51	100	90	Average
5230.000	97.79	98.81	/	/	34.60	9.89	45.51	100	90	Peak
5230.000	89.98	91.00	/	/	34.60	9.89	45.51	100	90	Average
5350.000	53.41	54.47	74.00	-20.59	34.60	9.85	45.51	100	90	Peak
5350.000	47.59	48.65	54.00	-6.41	34.60	9.85	45.51	100	90	Average

REMARKS:

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



802.11ax (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
5150.000	55.66	56.73	74.00	-18.34	34.52	9.92	45.51	100	350	Peak
5150.000	49.97	51.04	54.00	-4.03	34.52	9.92	45.51	100	350	Average
5210.000	91.36	92.40	/	/	34.57	9.90	45.51	100	350	Peak
5210.000	84.11	85.15	/	/	34.57	9.90	45.51	100	350	Average
5350.000	53.14	54.12	74.00	-20.86	34.68	9.85	45.51	100	350	Peak
5350.000	47.61	48.59	54.00	-6.39	34.68	9.85	45.51	100	350	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
5150.000	56.80	57.79	74.00	-17.20	34.60	9.92	45.51	100	90	Peak
5150.000	50.43	51.42	54.00	-3.57	34.60	9.92	45.51	100	90	Average
5210.000	95.34	96.35	/	/	34.60	9.90	45.51	100	90	Peak
5210.000	88.16	89.17	/	/	34.60	9.90	45.51	100	90	Average
5350.000	54.05	55.11	74.00	-19.95	34.60	9.85	45.51	100	90	Peak
5350.000	47.87	48.93	54.00	-6.13	34.60	9.85	45.51	100	90	Average

REMARKS:

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



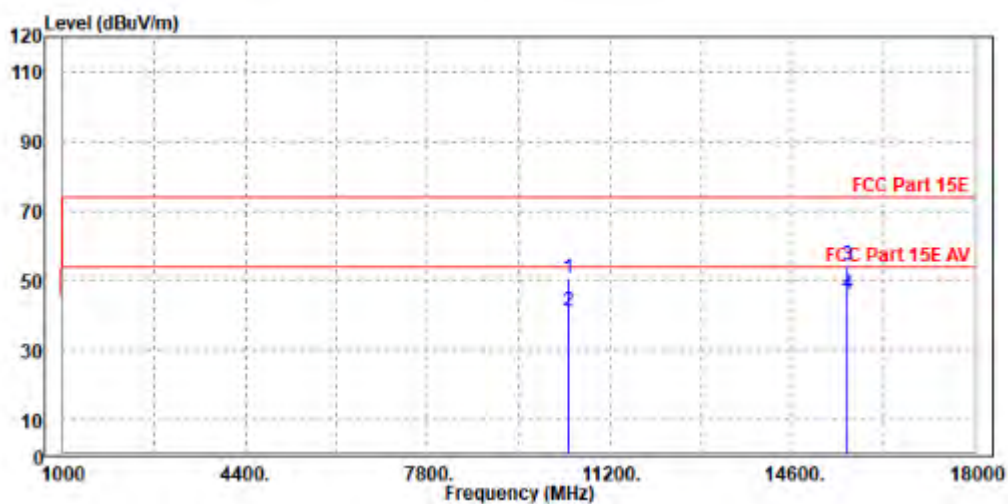
802.11ax (80MHz)

Worst case harmonic:

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

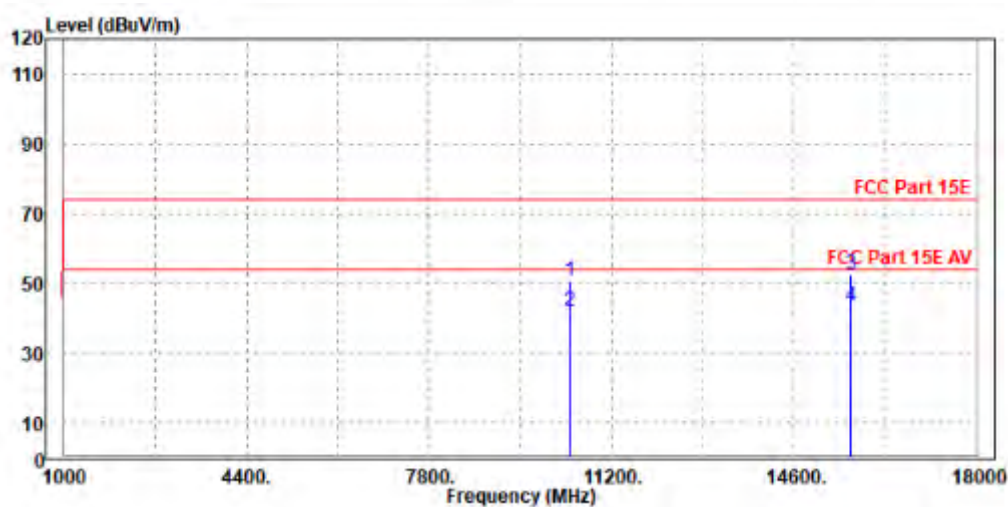
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read	Limit	Over			
	MHz	dBuV/m	Level	Line	Limit	Factor	Remark	Pol/Phase
			dBuV	dBuV/m	dB	dB/m		
1	10418.000	50.49	43.59	74.00	-23.51	6.90	Peak	Horizontal
2	10418.000	41.09	34.19	54.00	-12.91	6.90	Average	Horizontal
3	PK15630.000	54.37	41.27	74.00	-19.63	13.10	Peak	Horizontal
4	PP15630.000	45.92	32.82	54.00	-8.08	13.10	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	10420.000	50.65	42.53	74.00	-23.35	8.12	Peak	Vertical
2	10420.000	41.76	33.64	54.00	-12.24	8.12	Average	Vertical
3	PK15637.000	52.70	40.66	74.00	-21.30	12.04	Peak	Vertical
4	PP15637.000	43.49	31.45	54.00	-10.51	12.04	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.



**BUREAU
VERITAS**

Test Report No.: W7L-P23100014RF03

5G WIFI-RU

802.11ax (20MHz) (RU242):

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
5150.000	56.74	57.81	74.00	-17.26	34.52	9.92	45.51	100	350	Peak
5150.000	49.51	50.58	54.00	-4.49	34.52	9.92	45.51	100	350	Average
5180.000	97.87	98.93	/	/	34.54	9.91	45.51	100	350	Peak
5180.000	89.35	90.41	/	/	34.54	9.91	45.51	100	350	Average
5350.000	53.86	54.84	74.00	-20.14	34.68	9.85	45.51	100	350	Peak
5350.000	47.55	48.53	54.00	-6.45	34.68	9.85	45.51	100	350	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
5150.000	54.29	55.28	74.00	-19.71	34.60	9.92	45.51	100	265	Peak
5150.000	50.27	51.26	54.00	-3.73	34.60	9.92	45.51	100	265	Average
5180.000	100.94	101.94	/	/	34.60	9.91	45.51	100	265	Peak
5180.000	91.45	92.45	/	/	34.60	9.91	45.51	100	265	Average
5350.000	54.73	55.79	74.00	-19.27	34.60	9.85	45.51	100	265	Peak
5350.000	47.64	48.70	54.00	-6.36	34.60	9.85	45.51	100	265	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
5150.000	54.90	55.97	74.00	-19.10	34.52	9.92	45.51	100	350	Peak
5150.000	49.64	50.71	54.00	-4.36	34.52	9.92	45.51	100	350	Average
5200.000	97.08	98.13	/	/	34.56	9.90	45.51	100	350	Peak
5200.000	88.40	89.45	/	/	34.56	9.90	45.51	100	350	Average
5350.000	55.94	56.92	74.00	-18.06	34.68	9.85	45.51	100	350	Peak
5350.000	47.72	48.70	54.00	-6.28	34.68	9.85	45.51	100	350	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
5150.000	54.87	55.86	74.00	-19.13	34.60	9.92	45.51	100	265	Peak
5150.000	49.65	50.64	54.00	-4.35	34.60	9.92	45.51	100	265	Average
5200.000	99.50	100.51	/	/	34.60	9.90	45.51	100	265	Peak
5200.000	90.92	91.93	/	/	34.60	9.90	45.51	100	265	Average
5350.000	53.64	54.70	74.00	-20.36	34.60	9.85	45.51	100	265	Peak
5350.000	47.55	48.61	54.00	-6.45	34.60	9.85	45.51	100	265	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
5150.000	55.87	56.94	74.00	-18.13	34.52	9.92	45.51	100	350	Peak
5150.000	50.16	51.23	54.00	-3.84	34.52	9.92	45.51	100	350	Average
5240.000	97.34	98.37	/	/	34.59	9.89	45.51	100	350	Peak
5240.000	88.11	89.14	/	/	34.59	9.89	45.51	100	350	Average
5350.000	53.88	54.86	74.00	-20.12	34.68	9.85	45.51	100	350	Peak
5350.000	48.86	49.84	54.00	-5.14	34.68	9.85	45.51	100	350	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
5150.000	55.37	56.36	74.00	-18.63	34.60	9.92	45.51	100	265	Peak
5150.000	50.35	51.34	54.00	-3.65	34.60	9.92	45.51	100	265	Average
5240.000	100.81	101.83	/	/	34.60	9.89	45.51	100	265	Peak
5240.000	91.02	92.04	/	/	34.60	9.89	45.51	100	265	Average
5350.000	54.60	55.66	74.00	-19.40	34.60	9.85	45.51	100	265	Peak
5350.000	48.30	49.36	54.00	-5.70	34.60	9.85	45.51	100	265	Average

REMARKS:

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



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VERITAS**

Test Report No.: W7L-P23100014RF03

802.11ax (40MHz) (RU484):

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
5150.000	56.88	57.95	74.00	-17.12	34.52	9.92	45.51	100	358	Peak
5150.000	50.58	51.65	54.00	-3.42	34.52	9.92	45.51	100	358	Average
5190.000	94.28	95.33	/	/	34.55	9.91	45.51	100	358	Peak
5190.000	85.21	86.26	/	/	34.55	9.91	45.51	100	358	Average
5350.000	53.34	54.32	74.00	-20.66	34.68	9.85	45.51	100	358	Peak
5350.000	47.71	48.69	54.00	-6.29	34.68	9.85	45.51	100	358	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
5150.000	55.72	56.71	74.00	-18.28	34.60	9.92	45.51	100	265	Peak
5150.000	50.05	51.04	54.00	-3.95	34.60	9.92	45.51	100	265	Average
5190.000	96.52	97.52	/	/	34.60	9.91	45.51	100	265	Peak
5190.000	87.81	88.81	/	/	34.60	9.91	45.51	100	265	Average
5350.000	53.59	54.65	74.00	-20.41	34.60	9.85	45.51	100	265	Peak
5350.000	48.14	49.20	54.00	-5.86	34.60	9.85	45.51	100	265	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)
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
5150.000	55.69	56.76	74.00	-18.31	34.52	9.92	45.51	100	358	Peak
5150.000	50.08	51.15	54.00	-3.92	34.52	9.92	45.51	100	358	Average
5230.000	92.83	93.87	/	/	34.58	9.89	45.51	100	358	Peak
5230.000	84.96	86.00	/	/	34.58	9.89	45.51	100	358	Average
5350.000	54.08	55.06	74.00	-19.92	34.68	9.85	45.51	100	358	Peak
5350.000	48.21	49.19	54.00	-5.79	34.68	9.85	45.51	100	358	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
5150.000	55.57	56.56	74.00	-18.43	34.60	9.92	45.51	100	265	Peak
5150.000	50.32	51.31	54.00	-3.68	34.60	9.92	45.51	100	265	Average
5230.000	95.25	96.27	/	/	34.60	9.89	45.51	100	265	Peak
5230.000	87.23	88.25	/	/	34.60	9.89	45.51	100	265	Average
5350.000	53.99	55.05	74.00	-20.01	34.60	9.85	45.51	100	265	Peak
5350.000	47.85	48.91	54.00	-6.15	34.60	9.85	45.51	100	265	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P23100014RF03

802.11ax (80MHz) (RU996):

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
5150.000	55.30	56.37	74.00	-18.70	34.52	9.92	45.51	100	358	Peak
5150.000	49.89	50.96	54.00	-4.11	34.52	9.92	45.51	100	358	Average
5210.000	89.58	90.62	/	/	34.57	9.90	45.51	100	358	Peak
5210.000	81.74	82.78	/	/	34.57	9.90	45.51	100	358	Average
5350.000	54.04	55.02	74.00	-19.96	34.68	9.85	45.51	100	358	Peak
5350.000	48.35	49.33	54.00	-5.65	34.68	9.85	45.51	100	358	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
5150.000	54.55	55.54	74.00	-19.45	34.60	9.92	45.51	100	265	Peak
5150.000	50.36	51.35	54.00	-3.64	34.60	9.92	45.51	100	265	Average
5210.000	92.17	93.18	/	/	34.60	9.90	45.51	100	265	Peak
5210.000	84.28	85.29	/	/	34.60	9.90	45.51	100	265	Average
5350.000	53.65	54.71	74.00	-20.35	34.60	9.85	45.51	100	265	Peak
5350.000	48.04	49.10	54.00	-5.96	34.60	9.85	45.51	100	265	Average

REMARKS:

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



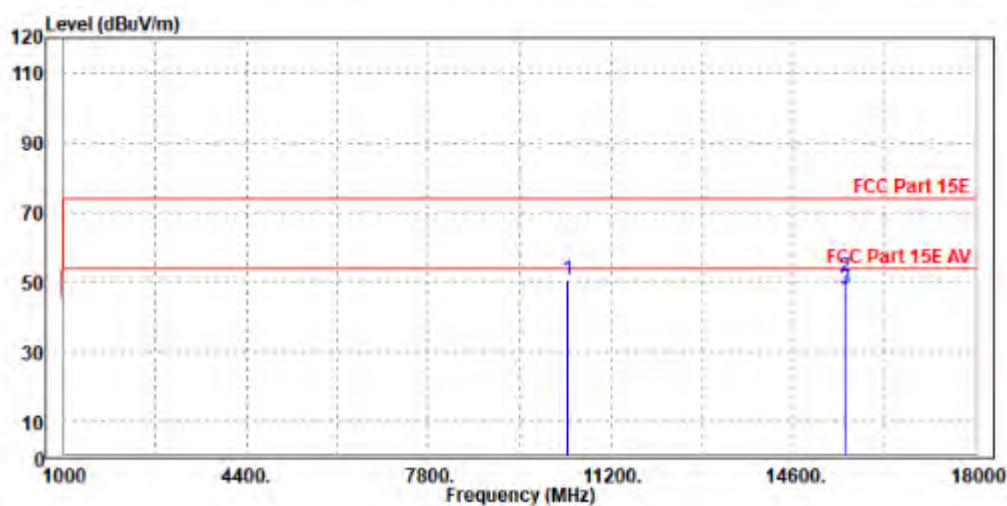
802.11ax (40MHz) (RU484):

Worst case harmonic:

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

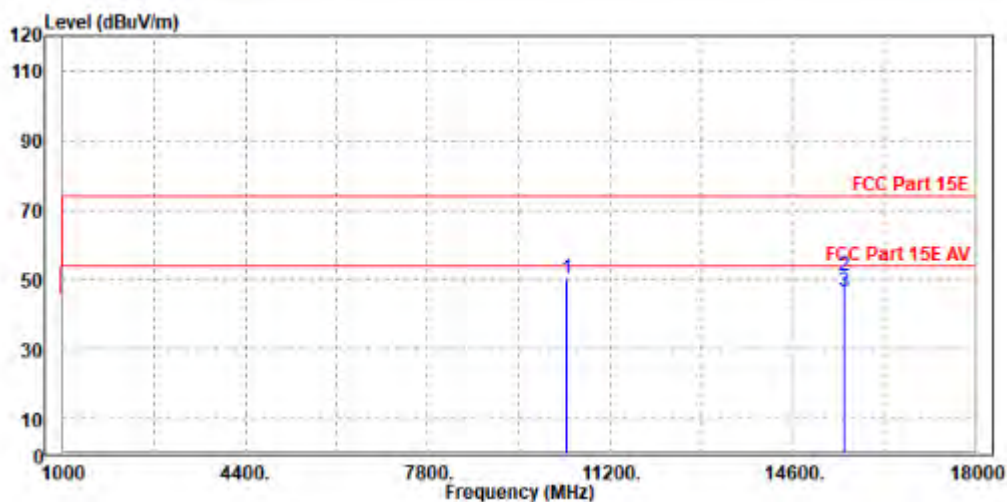
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10380.000	50.53	43.65	74.00	-23.47	6.88	Peak	Horizontal
2	PK15569.000	51.78	38.93	74.00	-22.22	12.85	Peak	Horizontal
3	PP15569.000	47.77	34.92	54.00	-6.23	12.85	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	10384.000	50.41	42.38	74.00	-23.59	8.03	Peak	Vertical
2	PK15570.000	51.00	39.14	74.00	-23.00	11.86	Peak	Vertical
3	PP15570.000	46.61	34.75	54.00	-7.39	11.86	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5190MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



**BUREAU
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Test Report No.: W7L-P23100014RF03

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
5150.000	55.54	56.61	74.00	-18.46	34.52	9.92	45.51	100	350	Peak
5150.000	49.38	50.45	54.00	-4.62	34.52	9.92	45.51	100	350	Average
5260.000	99.23	100.25	/	/	34.61	9.88	45.51	100	350	Peak
5260.000	93.09	94.11	/	/	34.61	9.88	45.51	100	350	Average
5350.000	54.91	55.89	74.00	-19.09	34.68	9.85	45.51	100	350	Peak
5350.000	48.14	49.12	54.00	-5.86	34.68	9.85	45.51	100	350	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
5150.000	56.13	57.12	74.00	-17.87	34.60	9.92	45.51	100	90	Peak
5150.000	49.80	50.79	54.00	-4.20	34.60	9.92	45.51	100	90	Average
5260.000	104.03	105.06	/	/	34.60	9.88	45.51	100	90	Peak
5260.000	97.38	98.41	/	/	34.60	9.88	45.51	100	90	Average
5350.000	53.24	54.30	74.00	-20.76	34.60	9.85	45.51	100	90	Peak
5350.000	47.75	48.81	54.00	-6.25	34.60	9.85	45.51	100	90	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)
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
5150.000	54.26	55.33	74.00	-19.74	34.52	9.92	45.51	100	350	Peak
5150.000	49.24	50.31	54.00	-4.76	34.52	9.92	45.51	100	350	Average
5300.000	98.81	99.81	/	/	34.64	9.87	45.51	100	350	Peak
5300.000	93.12	94.12	/	/	34.64	9.87	45.51	100	350	Average
5350.000	53.85	54.83	74.00	-20.15	34.68	9.85	45.51	100	350	Peak
5350.000	48.86	49.84	54.00	-5.14	34.68	9.85	45.51	100	350	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
5150.000	56.02	57.01	74.00	-17.98	34.60	9.92	45.51	100	90	Peak
5150.000	49.46	50.45	54.00	-4.54	34.60	9.92	45.51	100	90	Average
5300.000	104.47	105.51	/	/	34.60	9.87	45.51	100	90	Peak
5300.000	97.68	98.72	/	/	34.60	9.87	45.51	100	90	Average
5350.000	53.47	54.53	74.00	-20.53	34.60	9.85	45.51	100	90	Peak
5350.000	47.62	48.68	54.00	-6.38	34.60	9.85	45.51	100	90	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)
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
5150.000	55.85	56.92	74.00	-18.15	34.52	9.92	45.51	100	100	Peak
5150.000	49.88	50.95	54.00	-4.12	34.52	9.92	45.51	100	100	Average
5320.000	99.06	100.05	/	/	34.66	9.86	45.51	100	100	Peak
5320.000	92.83	93.82	/	/	34.66	9.86	45.51	100	100	Average
5350.000	54.83	55.81	74.00	-19.17	34.68	9.85	45.51	100	100	Peak
5350.000	47.45	48.43	54.00	-6.55	34.68	9.85	45.51	100	100	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
5150.000	55.16	56.15	74.00	-18.84	34.60	9.92	45.51	100	90	Peak
5150.000	49.60	50.59	54.00	-4.40	34.60	9.92	45.51	100	90	Average
5320.000	103.76	104.81	/	/	34.60	9.86	45.51	100	90	Peak
5320.000	97.71	98.76	/	/	34.60	9.86	45.51	100	90	Average
5350.000	53.34	54.40	74.00	-20.66	34.60	9.85	45.51	100	90	Peak
5350.000	47.96	49.02	54.00	-6.04	34.60	9.85	45.51	100	90	Average

REMARKS:

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



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Test Report No.: W7L-P23100014RF03

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
5150.000	55.55	56.62	74.00	-18.45	34.52	9.92	45.51	100	350	Peak
5150.000	49.53	50.60	54.00	-4.47	34.52	9.92	45.51	100	350	Average
5260.000	98.07	99.09	/	/	34.61	9.88	45.51	100	350	Peak
5260.000	90.77	91.79	/	/	34.61	9.88	45.51	100	350	Average
5350.000	53.54	54.52	74.00	-20.46	34.68	9.85	45.51	100	350	Peak
5350.000	48.27	49.25	54.00	-5.73	34.68	9.85	45.51	100	350	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
5150.000	54.27	55.26	74.00	-19.73	34.60	9.92	45.51	100	90	Peak
5150.000	50.01	51.00	54.00	-3.99	34.60	9.92	45.51	100	90	Average
5260.000	101.95	102.98	/	/	34.60	9.88	45.51	100	90	Peak
5260.000	95.03	96.06	/	/	34.60	9.88	45.51	100	90	Average
5350.000	53.34	54.40	74.00	-20.66	34.60	9.85	45.51	100	90	Peak
5350.000	47.85	48.91	54.00	-6.15	34.60	9.85	45.51	100	90	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)
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
5150.000	56.14	57.21	74.00	-17.86	34.52	9.92	45.51	100	350	Peak
5150.000	49.84	50.91	54.00	-4.16	34.52	9.92	45.51	100	350	Average
5300.000	97.42	98.42	/	/	34.64	9.87	45.51	100	350	Peak
5300.000	91.18	92.18	/	/	34.64	9.87	45.51	100	350	Average
5350.000	53.90	54.88	74.00	-20.10	34.68	9.85	45.51	100	350	Peak
5350.000	47.73	48.71	54.00	-6.27	34.68	9.85	45.51	100	350	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
5150.000	55.60	56.59	74.00	-18.40	34.60	9.92	45.51	100	90	Peak
5150.000	49.92	50.91	54.00	-4.08	34.60	9.92	45.51	100	90	Average
5300.000	101.97	103.01	/	/	34.60	9.87	45.51	100	90	Peak
5300.000	95.50	96.54	/	/	34.60	9.87	45.51	100	90	Average
5350.000	54.17	55.23	74.00	-19.83	34.60	9.85	45.51	100	90	Peak
5350.000	47.88	48.94	54.00	-6.12	34.60	9.85	45.51	100	90	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)
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
5150.000	55.39	56.46	74.00	-18.61	34.52	9.92	45.51	100	50	Peak
5150.000	49.30	50.37	54.00	-4.70	34.52	9.92	45.51	100	50	Average
5320.000	96.89	97.88	/	/	34.66	9.86	45.51	100	50	Peak
5320.000	90.67	91.66	/	/	34.66	9.86	45.51	100	50	Average
5350.000	54.01	54.99	74.00	-19.99	34.68	9.85	45.51	100	50	Peak
5350.000	47.46	48.44	54.00	-6.54	34.68	9.85	45.51	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
5150.000	54.35	55.34	74.00	-19.65	34.60	9.92	45.51	100	90	Peak
5150.000	49.67	50.66	54.00	-4.33	34.60	9.92	45.51	100	90	Average
5320.000	101.91	102.96	/	/	34.60	9.86	45.51	100	90	Peak
5320.000	95.51	96.56	/	/	34.60	9.86	45.51	100	90	Average
5350.000	53.43	54.49	74.00	-20.57	34.60	9.85	45.51	100	90	Peak
5350.000	47.39	48.45	54.00	-6.61	34.60	9.85	45.51	100	90	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P23100014RF03

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
5150.000	54.25	55.32	74.00	-19.75	34.52	9.92	45.51	100	350	Peak
5150.000	49.50	50.57	54.00	-4.50	34.52	9.92	45.51	100	350	Average
5270.000	93.29	94.30	/	/	34.62	9.88	45.51	100	350	Peak
5270.000	87.70	88.71	/	/	34.62	9.88	45.51	100	350	Average
5350.000	54.34	55.32	74.00	-19.66	34.68	9.85	45.51	100	350	Peak
5350.000	47.76	48.74	54.00	-6.24	34.68	9.85	45.51	100	350	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
5150.000	54.66	55.65	74.00	-19.34	34.60	9.92	45.51	100	90	Peak
5150.000	49.71	50.70	54.00	-4.29	34.60	9.92	45.51	100	90	Average
5270.000	98.08	99.11	/	/	34.60	9.88	45.51	100	90	Peak
5270.000	92.33	93.36	/	/	34.60	9.88	45.51	100	90	Average
5350.000	53.49	54.55	74.00	-20.51	34.60	9.85	45.51	100	90	Peak
5350.000	47.60	48.66	54.00	-6.40	34.60	9.85	45.51	100	90	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)
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
5150.000	55.83	56.90	74.00	-18.17	34.52	9.92	45.51	100	350	Peak
5150.000	49.67	50.74	54.00	-4.33	34.52	9.92	45.51	100	350	Average
5310.000	92.65	93.65	/	/	34.65	9.86	45.51	100	350	Peak
5310.000	87.66	88.66	/	/	34.65	9.86	45.51	100	350	Average
5350.000	53.48	54.46	74.00	-20.52	34.68	9.85	45.51	100	350	Peak
5350.000	47.55	48.53	54.00	-6.45	34.68	9.85	45.51	100	350	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
5150.000	54.41	55.40	74.00	-19.59	34.60	9.92	45.51	100	90	Peak
5150.000	49.36	50.35	54.00	-4.64	34.60	9.92	45.51	100	90	Average
5310.000	97.12	98.17	/	/	34.60	9.86	45.51	100	90	Peak
5310.000	92.43	93.48	/	/	34.60	9.86	45.51	100	90	Average
5350.000	53.95	55.01	74.00	-20.05	34.60	9.85	45.51	100	90	Peak
5350.000	47.84	48.90	54.00	-6.16	34.60	9.85	45.51	100	90	Average

REMARKS:

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



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Test Report No.: W7L-P23100014RF03

802.11ac (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
5150.000	53.96	55.03	74.00	-20.04	34.52	9.92	45.51	100	350	Peak
5150.000	49.73	50.80	54.00	-4.27	34.52	9.92	45.51	100	350	Average
5260.000	96.59	97.61	/	/	34.61	9.88	45.51	100	350	Peak
5260.000	89.88	90.90	/	/	34.61	9.88	45.51	100	350	Average
5350.000	54.02	55.00	74.00	-19.98	34.68	9.85	45.51	100	350	Peak
5350.000	47.63	48.61	54.00	-6.37	34.68	9.85	45.51	100	350	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
5150.000	55.79	56.78	74.00	-18.21	34.60	9.92	45.51	100	90	Peak
5150.000	49.42	50.41	54.00	-4.58	34.60	9.92	45.51	100	90	Average
5260.000	101.95	102.98	/	/	34.60	9.88	45.51	100	90	Peak
5260.000	94.32	95.35	/	/	34.60	9.88	45.51	100	90	Average
5350.000	53.62	54.68	74.00	-20.38	34.60	9.85	45.51	100	90	Peak
5350.000	47.87	48.93	54.00	-6.13	34.60	9.85	45.51	100	90	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)
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
5150.000	55.63	56.70	74.00	-18.37	34.52	9.92	45.51	100	350	Peak
5150.000	49.65	50.72	54.00	-4.35	34.52	9.92	45.51	100	350	Average
5300.000	97.73	98.73	/	/	34.64	9.87	45.51	100	350	Peak
5300.000	90.17	91.17	/	/	34.64	9.87	45.51	100	350	Average
5350.000	53.73	54.71	74.00	-20.27	34.68	9.85	45.51	100	350	Peak
5350.000	47.98	48.96	54.00	-6.02	34.68	9.85	45.51	100	350	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
5150.000	55.66	56.65	74.00	-18.34	34.60	9.92	45.51	100	90	Peak
5150.000	49.81	50.80	54.00	-4.19	34.60	9.92	45.51	100	90	Average
5300.000	101.50	102.54	/	/	34.60	9.87	45.51	100	90	Peak
5300.000	95.07	96.11	/	/	34.60	9.87	45.51	100	90	Average
5350.000	54.55	55.61	74.00	-19.45	34.60	9.85	45.51	100	90	Peak
5350.000	47.80	48.86	54.00	-6.20	34.60	9.85	45.51	100	90	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)
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
5150.000	55.16	56.23	74.00	-18.84	34.52	9.92	45.51	100	100	Peak
5150.000	49.68	50.75	54.00	-4.32	34.52	9.92	45.51	100	100	Average
5320.000	96.44	97.43	/	/	34.66	9.86	45.51	100	100	Peak
5320.000	89.97	90.96	/	/	34.66	9.86	45.51	100	100	Average
5350.000	53.07	54.05	74.00	-20.93	34.68	9.85	45.51	100	100	Peak
5350.000	47.89	48.87	54.00	-6.11	34.68	9.85	45.51	100	100	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
5150.000	55.90	56.89	74.00	-18.10	34.60	9.92	45.51	100	90	Peak
5150.000	49.54	50.53	54.00	-4.46	34.60	9.92	45.51	100	90	Average
5320.000	101.90	102.95	/	/	34.60	9.86	45.51	100	90	Peak
5320.000	95.11	96.16	/	/	34.60	9.86	45.51	100	90	Average
5350.000	53.00	54.06	74.00	-21.00	34.60	9.85	45.51	100	90	Peak
5350.000	47.33	48.39	54.00	-6.67	34.60	9.85	45.51	100	90	Average

REMARKS:

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



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Test Report No.: W7L-P23100014RF03

802.11ac (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
5150.000	54.52	55.59	74.00	-19.48	34.52	9.92	45.51	100	350	Peak
5150.000	50.10	51.17	54.00	-3.90	34.52	9.92	45.51	100	350	Average
5270.000	93.36	94.37	/	/	34.62	9.88	45.51	100	350	Peak
5270.000	87.21	88.22	/	/	34.62	9.88	45.51	100	350	Average
5350.000	54.33	55.31	74.00	-19.67	34.68	9.85	45.51	100	350	Peak
5350.000	48.10	49.08	54.00	-5.90	34.68	9.85	45.51	100	350	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
5150.000	54.40	55.39	74.00	-19.60	34.60	9.92	45.51	100	90	Peak
5150.000	49.89	50.88	54.00	-4.11	34.60	9.92	45.51	100	90	Average
5270.000	97.80	98.83	/	/	34.60	9.88	45.51	100	90	Peak
5270.000	91.71	92.74	/	/	34.60	9.88	45.51	100	90	Average
5350.000	53.61	54.67	74.00	-20.39	34.60	9.85	45.51	100	90	Peak
5350.000	47.70	48.76	54.00	-6.30	34.60	9.85	45.51	100	90	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)
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
5150.000	55.13	56.20	74.00	-18.87	34.52	9.92	45.51	100	350	Peak
5150.000	49.83	50.90	54.00	-4.17	34.52	9.92	45.51	100	350	Average
5310.000	92.62	93.62	/	/	34.65	9.86	45.51	100	350	Peak
5310.000	87.21	88.21	/	/	34.65	9.86	45.51	100	350	Average
5350.000	53.26	54.24	74.00	-20.74	34.68	9.85	45.51	100	350	Peak
5350.000	47.74	48.72	54.00	-6.26	34.68	9.85	45.51	100	350	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
5150.000	56.91	57.90	74.00	-17.09	34.60	9.92	45.51	100	90	Peak
5150.000	49.73	50.72	54.00	-4.27	34.60	9.92	45.51	100	90	Average
5310.000	97.41	98.46	/	/	34.60	9.86	45.51	100	90	Peak
5310.000	91.68	92.73	/	/	34.60	9.86	45.51	100	90	Average
5350.000	53.99	55.05	74.00	-20.01	34.60	9.85	45.51	100	90	Peak
5350.000	48.25	49.31	54.00	-5.75	34.60	9.85	45.51	100	90	Average

REMARKS:

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



Test Report No.: W7L-P23100014RF03

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
5150.000	56.07	57.14	74.00	-17.93	34.52	9.92	45.51	100	350	Peak
5150.000	49.90	50.97	54.00	-4.10	34.52	9.92	45.51	100	350	Average
5290.000	87.32	88.33	/	/	34.63	9.87	45.51	100	350	Peak
5290.000	82.10	83.11	/	/	34.63	9.87	45.51	100	350	Average
5350.000	53.59	54.57	74.00	-20.41	34.68	9.85	45.51	100	350	Peak
5350.000	47.52	48.50	54.00	-6.48	34.68	9.85	45.51	100	350	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
5150.000	56.40	57.39	74.00	-17.60	34.60	9.92	45.51	100	90	Peak
5150.000	49.42	50.41	54.00	-4.58	34.60	9.92	45.51	100	90	Average
5290.000	93.06	94.10	/	/	34.60	9.87	45.51	100	90	Peak
5290.000	87.76	88.80	/	/	34.60	9.87	45.51	100	90	Average
5350.000	53.38	54.44	74.00	-20.62	34.60	9.85	45.51	100	90	Peak
5350.000	48.28	49.34	54.00	-5.72	34.60	9.85	45.51	100	90	Average

REMARKS:

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



802.11ax (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
5150.000	55.26	56.33	74.00	-18.74	34.52	9.92	45.51	100	350	Peak
5150.000	50.02	51.09	54.00	-3.98	34.52	9.92	45.51	100	350	Average
5260.000	98.16	99.18	/	/	34.61	9.88	45.51	100	350	Peak
5260.000	88.03	89.05	/	/	34.61	9.88	45.51	100	350	Average
5350.000	53.81	54.79	74.00	-20.19	34.68	9.85	45.51	100	350	Peak
5350.000	47.83	48.81	54.00	-6.17	34.68	9.85	45.51	100	350	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
5150.000	56.07	57.06	74.00	-17.93	34.60	9.92	45.51	100	90	Peak
5150.000	49.40	50.39	54.00	-4.60	34.60	9.92	45.51	100	90	Average
5260.000	103.19	104.22	/	/	34.60	9.88	45.51	100	90	Peak
5260.000	92.81	93.84	/	/	34.60	9.88	45.51	100	90	Average
5350.000	53.83	54.89	74.00	-20.17	34.60	9.85	45.51	100	90	Peak
5350.000	47.98	49.04	54.00	-6.02	34.60	9.85	45.51	100	90	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)
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
5150.000	56.04	57.11	74.00	-17.96	34.52	9.92	45.51	100	350	Peak
5150.000	49.50	50.57	54.00	-4.50	34.52	9.92	45.51	100	350	Average
5300.000	97.90	98.90	/	/	34.64	9.87	45.51	100	350	Peak
5300.000	89.24	90.24	/	/	34.64	9.87	45.51	100	350	Average
5350.000	54.92	55.90	74.00	-19.08	34.68	9.85	45.51	100	350	Peak
5350.000	48.04	49.02	54.00	-5.96	34.68	9.85	45.51	100	350	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
5150.000	55.01	56.00	74.00	-18.99	34.60	9.92	45.51	100	90	Peak
5150.000	50.38	51.37	54.00	-3.62	34.60	9.92	45.51	100	90	Average
5300.000	103.39	104.43	/	/	34.60	9.87	45.51	100	90	Peak
5300.000	93.57	94.61	/	/	34.60	9.87	45.51	100	90	Average
5350.000	54.18	55.24	74.00	-19.82	34.60	9.85	45.51	100	90	Peak
5350.000	48.25	49.31	54.00	-5.75	34.60	9.85	45.51	100	90	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)
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
5150.000	54.22	55.29	74.00	-19.78	34.52	9.92	45.51	100	100	Peak
5150.000	49.74	50.81	54.00	-4.26	34.52	9.92	45.51	100	100	Average
5320.000	98.61	99.60	/	/	34.66	9.86	45.51	100	100	Peak
5320.000	89.07	90.06	/	/	34.66	9.86	45.51	100	100	Average
5350.000	53.31	54.29	74.00	-20.69	34.68	9.85	45.51	100	100	Peak
5350.000	47.51	48.49	54.00	-6.49	34.68	9.85	45.51	100	100	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
5150.000	55.49	56.48	74.00	-18.51	34.60	9.92	45.51	100	90	Peak
5150.000	49.61	50.60	54.00	-4.39	34.60	9.92	45.51	100	90	Average
5320.000	103.03	104.08	/	/	34.60	9.86	45.51	100	90	Peak
5320.000	93.68	94.73	/	/	34.60	9.86	45.51	100	90	Average
5350.000	53.59	54.65	74.00	-20.41	34.60	9.85	45.51	100	90	Peak
5350.000	47.82	48.88	54.00	-6.18	34.60	9.85	45.51	100	90	Average

REMARKS:

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



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Test Report No.: W7L-P23100014RF03

802.11ax (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
5150.000	56.54	57.61	74.00	-17.46	34.52	9.92	45.51	100	350	Peak
5150.000	49.88	50.95	54.00	-4.12	34.52	9.92	45.51	100	350	Average
5270.000	93.05	94.06	/	/	34.62	9.88	45.51	100	350	Peak
5270.000	85.04	86.05	/	/	34.62	9.88	45.51	100	350	Average
5350.000	54.39	55.37	74.00	-19.61	34.68	9.85	45.51	100	350	Peak
5350.000	47.95	48.93	54.00	-6.05	34.68	9.85	45.51	100	350	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
5150.000	55.51	56.50	74.00	-18.49	34.60	9.92	45.51	100	90	Peak
5150.000	49.87	50.86	54.00	-4.13	34.60	9.92	45.51	100	90	Average
5270.000	98.64	99.67	/	/	34.60	9.88	45.51	100	90	Peak
5270.000	90.23	91.26	/	/	34.60	9.88	45.51	100	90	Average
5350.000	53.19	54.25	74.00	-20.81	34.60	9.85	45.51	100	90	Peak
5350.000	48.07	49.13	54.00	-5.93	34.60	9.85	45.51	100	90	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)
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
5150.000	55.74	56.81	74.00	-18.26	34.52	9.92	45.51	100	350	Peak
5150.000	49.82	50.89	54.00	-4.18	34.52	9.92	45.51	100	350	Average
5310.000	93.03	94.03	/	/	34.65	9.86	45.51	100	350	Peak
5310.000	85.79	86.79	/	/	34.65	9.86	45.51	100	350	Average
5350.000	53.70	54.68	74.00	-20.30	34.68	9.85	45.51	100	350	Peak
5350.000	47.85	48.83	54.00	-6.15	34.68	9.85	45.51	100	350	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
5150.000	54.27	55.26	74.00	-19.73	34.60	9.92	45.51	100	90	Peak
5150.000	49.68	50.67	54.00	-4.32	34.60	9.92	45.51	100	90	Average
5310.000	97.95	99.00	/	/	34.60	9.86	45.51	100	90	Peak
5310.000	90.36	91.41	/	/	34.60	9.86	45.51	100	90	Average
5350.000	53.06	54.12	74.00	-20.94	34.60	9.85	45.51	100	90	Peak
5350.000	47.69	48.75	54.00	-6.31	34.60	9.85	45.51	100	90	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P23100014RF03

802.11ax (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
5150.000	54.63	55.70	74.00	-19.37	34.52	9.92	45.51	100	350	Peak
5150.000	49.93	51.00	54.00	-4.07	34.52	9.92	45.51	100	350	Average
5290.000	90.74	91.75	/	/	34.63	9.87	45.51	100	350	Peak
5290.000	82.00	83.01	/	/	34.63	9.87	45.51	100	350	Average
5350.000	53.78	54.76	74.00	-20.22	34.68	9.85	45.51	100	350	Peak
5350.000	48.12	49.10	54.00	-5.88	34.68	9.85	45.51	100	350	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
5150.000	54.59	55.58	74.00	-19.41	34.60	9.92	45.51	100	90	Peak
5150.000	50.22	51.21	54.00	-3.78	34.60	9.92	45.51	100	90	Average
5290.000	94.94	95.98	/	/	34.60	9.87	45.51	100	90	Peak
5290.000	87.56	88.60	/	/	34.60	9.87	45.51	100	90	Average
5350.000	54.06	55.12	74.00	-19.94	34.60	9.85	45.51	100	90	Peak
5350.000	48.69	49.75	54.00	-5.31	34.60	9.85	45.51	100	90	Average

REMARKS:

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



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VERITAS**

Test Report No.: W7L-P23100014RF03

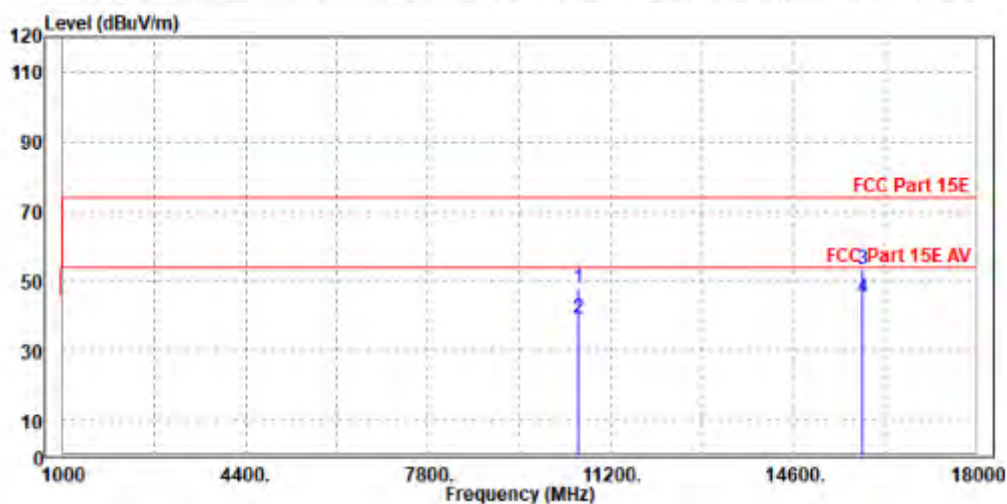
802.11ax (20MHz)

Worst case harmonic:

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

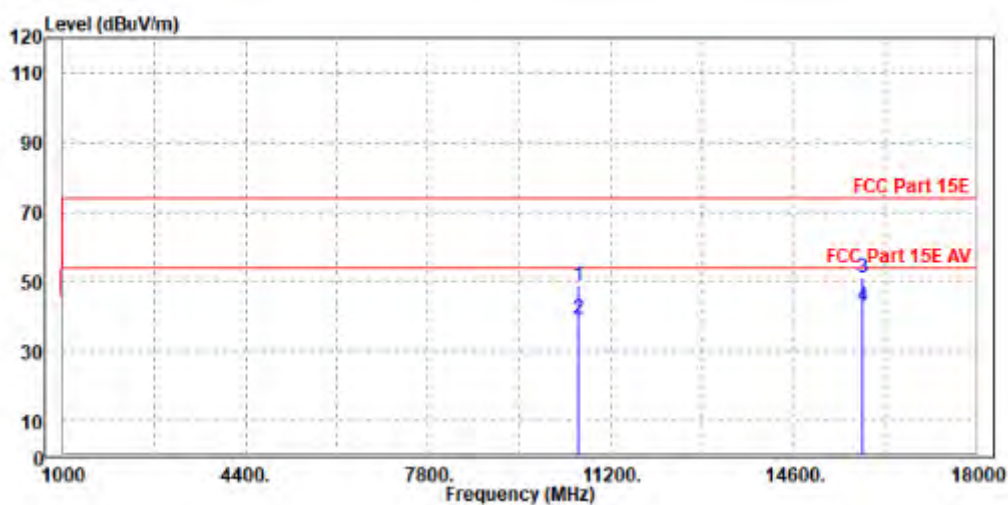
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10600.000	47.95	41.02	74.00	-26.05	6.93	Peak	Horizontal
2	10600.000	39.25	32.32	54.00	-14.75	6.93	Average	Horizontal
3	PK15892.000	53.34	39.20	74.00	-20.66	14.14	Peak	Horizontal
4	PP15892.000	45.00	30.86	54.00	-9.00	14.14	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	10605.000	48.88	40.75	74.00	-25.12	8.13	Peak	Vertical
2	10605.000	39.01	30.88	54.00	-14.99	8.13	Average	Vertical
3	PK15900.000	51.32	38.62	74.00	-22.68	12.70	Peak	Vertical
4	PP15900.000	42.89	30.19	54.00	-11.11	12.70	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5300MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



5G WIFI-RU

802.11ax (20MHz) (RU242):

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
5150.000	55.19	56.26	74.00	-18.81	34.52	9.92	45.51	100	358	Peak
5150.000	49.22	50.29	54.00	-4.78	34.52	9.92	45.51	100	358	Average
5260.000	97.29	98.31	/	/	34.61	9.88	45.51	100	358	Peak
5260.000	87.80	88.82	/	/	34.61	9.88	45.51	100	358	Average
5350.000	54.89	55.87	74.00	-19.11	34.68	9.85	45.51	100	358	Peak
5350.000	47.94	48.92	54.00	-6.06	34.68	9.85	45.51	100	358	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
5150.000	55.42	56.41	74.00	-18.58	34.60	9.92	45.51	100	265	Peak
5150.000	49.67	50.66	54.00	-4.33	34.60	9.92	45.51	100	265	Average
5260.000	99.79	100.82	/	/	34.60	9.88	45.51	100	265	Peak
5260.000	90.51	91.54	/	/	34.60	9.88	45.51	100	265	Average
5350.000	53.87	54.93	74.00	-20.13	34.60	9.85	45.51	100	265	Peak
5350.000	48.43	49.49	54.00	-5.57	34.60	9.85	45.51	100	265	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
5150.000	54.27	55.34	74.00	-19.73	34.52	9.92	45.51	100	358	Peak
5150.000	49.67	50.74	54.00	-4.33	34.52	9.92	45.51	100	358	Average
5300.000	96.39	97.39	/	/	34.64	9.87	45.51	100	358	Peak
5300.000	86.54	87.54	/	/	34.64	9.87	45.51	100	358	Average
5350.000	54.53	55.51	74.00	-19.47	34.68	9.85	45.51	100	358	Peak
5350.000	47.52	48.50	54.00	-6.48	34.68	9.85	45.51	100	358	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
5150.000	54.24	55.23	74.00	-19.76	34.60	9.92	45.51	100	265	Peak
5150.000	49.82	50.81	54.00	-4.18	34.60	9.92	45.51	100	265	Average
5300.000	99.60	100.64	/	/	34.60	9.87	45.51	100	265	Peak
5300.000	89.96	91.00	/	/	34.60	9.87	45.51	100	265	Average
5350.000	54.52	55.58	74.00	-19.48	34.60	9.85	45.51	100	265	Peak
5350.000	47.97	49.03	54.00	-6.03	34.60	9.85	45.51	100	265	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)
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
5150.000	54.31	55.38	74.00	-19.69	34.52	9.92	45.51	100	358	Peak
5150.000	49.55	50.62	54.00	-4.45	34.52	9.92	45.51	100	358	Average
5320.000	95.05	96.04	/	/	34.66	9.86	45.51	100	358	Peak
5320.000	85.74	86.73	/	/	34.66	9.86	45.51	100	358	Average
5350.000	54.42	55.40	74.00	-19.58	34.68	9.85	45.51	100	358	Peak
5350.000	47.32	48.30	54.00	-6.68	34.68	9.85	45.51	100	358	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
5150.000	55.66	56.65	74.00	-18.34	34.60	9.92	45.51	100	265	Peak
5150.000	49.60	50.59	54.00	-4.40	34.60	9.92	45.51	100	265	Average
5320.000	99.07	100.12	/	/	34.60	9.86	45.51	100	265	Peak
5320.000	89.85	90.90	/	/	34.60	9.86	45.51	100	265	Average
5350.000	53.93	54.99	74.00	-20.07	34.60	9.85	45.51	100	265	Peak
5350.000	48.12	49.18	54.00	-5.88	34.60	9.85	45.51	100	265	Average

REMARKS:

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



802.11ax (40MHz) (RU484):

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
5150.000	56.52	57.59	74.00	-17.48	34.52	9.92	45.51	100	358	Peak
5150.000	49.57	50.64	54.00	-4.43	34.52	9.92	45.51	100	358	Average
5270.000	91.60	92.61	/	/	34.62	9.88	45.51	100	358	Peak
5270.000	84.24	85.25	/	/	34.62	9.88	45.51	100	358	Average
5350.000	55.19	56.17	74.00	-18.81	34.68	9.85	45.51	100	358	Peak
5350.000	48.26	49.24	54.00	-5.74	34.68	9.85	45.51	100	358	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
5150.000	54.25	55.24	74.00	-19.75	34.60	9.92	45.51	100	265	Peak
5150.000	50.31	51.30	54.00	-3.69	34.60	9.92	45.51	100	265	Average
5270.000	94.57	95.60	/	/	34.60	9.88	45.51	100	265	Peak
5270.000	87.34	88.37	/	/	34.60	9.88	45.51	100	265	Average
5350.000	54.05	55.11	74.00	-19.95	34.60	9.85	45.51	100	265	Peak
5350.000	47.90	48.96	54.00	-6.10	34.60	9.85	45.51	100	265	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)
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
5150.000	54.82	55.89	74.00	-19.18	34.52	9.92	45.51	100	358	Peak
5150.000	50.13	51.20	54.00	-3.87	34.52	9.92	45.51	100	358	Average
5310.000	91.08	92.08	/	/	34.65	9.86	45.51	100	358	Peak
5310.000	83.22	84.22	/	/	34.65	9.86	45.51	100	358	Average
5350.000	53.67	54.65	74.00	-20.33	34.68	9.85	45.51	100	358	Peak
5350.000	48.02	49.00	54.00	-5.98	34.68	9.85	45.51	100	358	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
5150.000	56.74	57.73	74.00	-17.26	34.60	9.92	45.51	100	265	Peak
5150.000	49.86	50.85	54.00	-4.14	34.60	9.92	45.51	100	265	Average
5310.000	94.99	96.04	/	/	34.60	9.86	45.51	100	265	Peak
5310.000	87.18	88.23	/	/	34.60	9.86	45.51	100	265	Average
5350.000	53.88	54.94	74.00	-20.12	34.60	9.85	45.51	100	265	Peak
5350.000	47.68	48.74	54.00	-6.32	34.60	9.85	45.51	100	265	Average

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P23100014RF03

802.11ax (80MHz) (RU996):

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
5150.000	55.09	56.16	74.00	-18.91	34.52	9.92	45.51	100	358	Peak
5150.000	49.93	51.00	54.00	-4.07	34.52	9.92	45.51	100	358	Average
5290.000	88.42	89.43	/	/	34.63	9.87	45.51	100	358	Peak
5290.000	80.75	81.76	/	/	34.63	9.87	45.51	100	358	Average
5350.000	53.14	54.12	74.00	-20.86	34.68	9.85	45.51	100	358	Peak
5350.000	48.06	49.04	54.00	-5.94	34.68	9.85	45.51	100	358	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
5150.000	55.69	56.68	74.00	-18.31	34.60	9.92	45.51	100	265	Peak
5150.000	50.44	51.43	54.00	-3.56	34.60	9.92	45.51	100	265	Average
5290.000	91.69	92.73	/	/	34.60	9.87	45.51	100	265	Peak
5290.000	84.41	85.45	/	/	34.60	9.87	45.51	100	265	Average
5350.000	53.78	54.84	74.00	-20.22	34.60	9.85	45.51	100	265	Peak
5350.000	48.48	49.54	54.00	-5.52	34.60	9.85	45.51	100	265	Average

REMARKS:

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



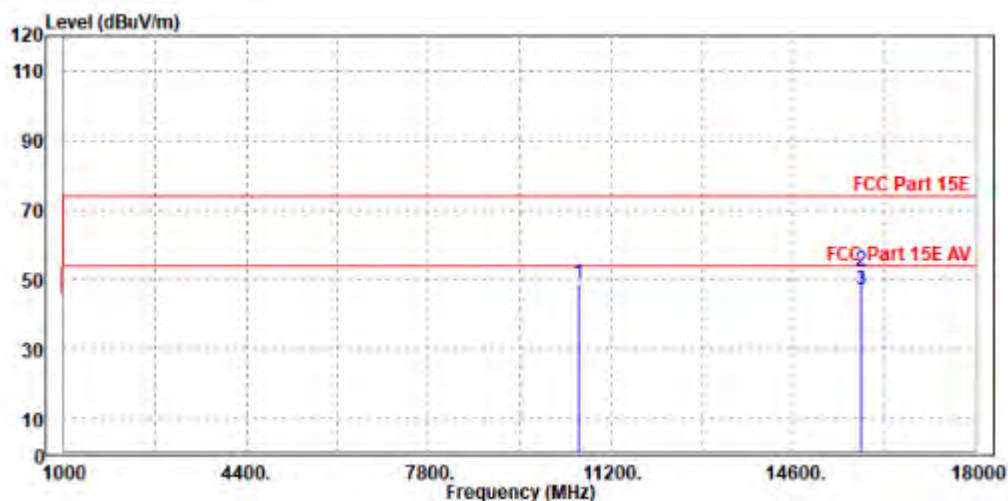
802.11ax (80MHz) (RU996):

Worst case harmonic:

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

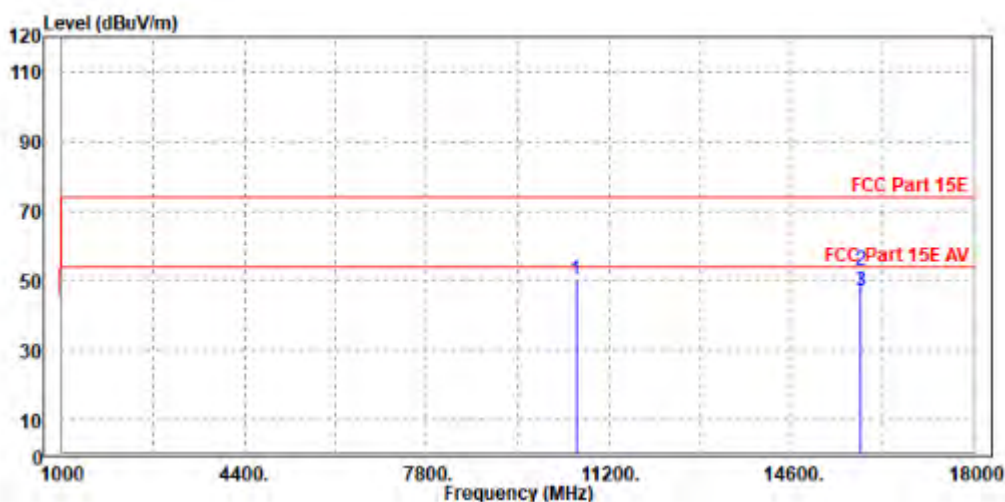
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10588.000	48.97	42.03	74.00	-25.03	6.94	Peak	Horizontal
2	PK15870.000	52.62	38.58	74.00	-21.38	14.04	Peak	Horizontal
3	PP15870.000	47.20	33.16	54.00	-6.80	14.04	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	10580.000	50.13	41.95	74.00	-23.87	8.18	Peak	Vertical
2	PK15875.000	52.76	40.12	74.00	-21.24	12.64	Peak	Vertical
3	PP15875.000	47.22	34.58	54.00	-6.78	12.64	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5290MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



Test Report No.: W7L-P23100014RF03

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	54.54	55.47	74	-19.46	34.77	9.81	45.51	100	275	Peak
5460	47.72	48.65	54	-6.28	34.77	9.81	45.51	100	275	Average
5470	53.87	54.79	68.2	-14.33	34.78	9.81	45.51	100	275	Peak
5500	100.24	101.14	/	/	34.8	9.8	45.5	100	275	Peak
5500	93.73	94.63	/	/	34.8	9.8	45.5	100	275	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	55.42	56.52	74	-18.58	34.6	9.81	45.51	170	265	Peak
5460	47.61	48.71	54	-6.39	34.6	9.81	45.51	170	265	Average
5470	52.99	54.09	68.2	-15.21	34.6	9.81	45.51	170	265	Peak
5500	103.32	104.42	/	/	34.6	9.8	45.5	170	265	Peak
5500	97.85	98.95	/	/	34.6	9.8	45.5	170	265	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	53.65	54.58	74	-20.35	34.77	9.81	45.51	100	275	Peak
5460	48.1	49.03	54	-5.9	34.77	9.81	45.51	100	275	Average
5470	54.65	55.57	68.2	-13.55	34.78	9.81	45.51	100	275	Peak
5580	100.83	101.6	/	/	34.9	9.83	45.5	100	275	Peak
5580	94.76	95.53	/	/	34.9	9.83	45.5	100	275	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	54.44	55.54	74	-19.56	34.6	9.81	45.51	170	265	Peak
5460	48.24	49.34	54	-5.76	34.6	9.81	45.51	170	265	Average
5470	56.39	57.49	68.2	-11.81	34.6	9.81	45.51	170	265	Peak
5580	103.8	104.77	/	/	34.7	9.83	45.5	170	265	Peak
5580	97.57	98.54	/	/	34.7	9.83	45.5	170	265	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	103.89	104.48	/	/	35.04	9.87	45.5	100	280	Peak
5700	97.52	98.11	/	/	35.04	9.87	45.5	100	280	Average
5725	57.78	58.33	68.2	-10.42	35.07	9.88	45.5	100	280	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	105.43	106.22	/	/	34.84	9.87	45.5	100	80	Peak
5700	99.14	99.93	/	/	34.84	9.87	45.5	100	80	Average
5725	56.26	57.01	68.2	-11.94	34.87	9.88	45.5	100	80	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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
5470	53.42	54.34	68.2	-14.78	34.78	9.81	45.51	100	280	Peak
5720	103.47	104.04	/	/	35.06	9.87	45.5	100	280	Peak
5720	97.95	98.52	/	/	35.06	9.87	45.5	100	280	Average
5850	55.88	56.24	68.2	-12.32	35.22	9.92	45.5	100	280	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
5470	54.72	55.82	68.2	-13.48	34.6	9.81	45.51	100	80	Peak
5720	105.4	106.17	/	/	34.86	9.87	45.5	100	80	Peak
5720	99.33	100.1	/	/	34.86	9.87	45.5	100	80	Average
5850	55.24	55.8	68.2	-12.96	35.02	9.92	45.5	100	80	Peak

REMARKS:

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



**BUREAU
VERITAS**

Test Report No.: W7L-P23100014RF03

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	54.53	55.46	74	-19.47	34.77	9.81	45.51	100	275	Peak
5460	47.98	48.91	54	-6.02	34.77	9.81	45.51	100	275	Average
5470	53.31	54.23	68.2	-14.89	34.78	9.81	45.51	100	275	Peak
5500	98.22	99.12	/	/	34.8	9.8	45.5	100	275	Peak
5500	91	91.9	/	/	34.8	9.8	45.5	100	275	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	54.59	55.69	74	-19.41	34.6	9.81	45.51	170	265	Peak
5460	48.29	49.39	54	-5.71	34.6	9.81	45.51	170	265	Average
5470	56.23	57.33	68.2	-11.97	34.6	9.81	45.51	170	265	Peak
5500	101.69	102.79	/	/	34.6	9.8	45.5	170	265	Peak
5500	95.39	96.49	/	/	34.6	9.8	45.5	170	265	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	53.19	54.12	74	-20.81	34.77	9.81	45.51	100	275	Peak
5460	47.61	48.54	54	-6.39	34.77	9.81	45.51	100	275	Average
5470	53.8	54.72	68.2	-14.4	34.78	9.81	45.51	100	275	Peak
5580	98.78	99.55	/	/	34.9	9.83	45.5	100	275	Peak
5580	92.59	93.36	/	/	34.9	9.83	45.5	100	275	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	54.58	55.68	74	-19.42	34.6	9.81	45.51	170	265	Peak
5460	47.73	48.83	54	-6.27	34.6	9.81	45.51	170	265	Average
5470	53.82	54.92	68.2	-14.38	34.6	9.81	45.51	170	265	Peak
5580	101.89	102.86	/	/	34.7	9.83	45.5	170	265	Peak
5580	95.57	96.54	/	/	34.7	9.83	45.5	170	265	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	101.9	102.49	/	/	35.04	9.87	45.5	100	280	Peak
5700	95.12	95.71	/	/	35.04	9.87	45.5	100	280	Average
5725	55.57	56.12	68.2	-12.63	35.07	9.88	45.5	100	280	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	103.16	103.95	/	/	34.84	9.87	45.5	100	80	Peak
5700	97.15	97.94	/	/	34.84	9.87	45.5	100	80	Average
5725	56.61	57.36	68.2	-11.59	34.87	9.88	45.5	100	80	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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
5470	54.95	55.87	68.2	-13.25	34.78	9.81	45.51	100	280	Peak
5720	102.45	103.02	/	/	35.06	9.87	45.5	100	280	Peak
5720	95.43	96	/	/	35.06	9.87	45.5	100	280	Average
5850	54.17	54.53	68.2	-14.03	35.22	9.92	45.5	100	280	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
5470	54.82	55.92	68.2	-13.38	34.6	9.81	45.51	100	80	Peak
5720	103.2	103.97	/	/	34.86	9.87	45.5	100	80	Peak
5720	97.47	98.24	/	/	34.86	9.87	45.5	100	80	Average
5850	55.65	56.21	68.2	-12.55	35.02	9.92	45.5	100	80	Peak

REMARKS:

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

802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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	54.7	55.63	74	-19.3	34.77	9.81	45.51	100	275	Peak
5460	48.15	49.08	54	-5.85	34.77	9.81	45.51	100	275	Average
5470	53.14	54.06	68.2	-15.06	34.78	9.81	45.51	100	275	Peak
5510	93.55	94.44	/	/	34.81	9.8	45.5	100	275	Peak
5510	88.62	89.51	/	/	34.81	9.8	45.5	100	275	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	53.04	54.14	74	-20.96	34.6	9.81	45.51	170	265	Peak
5460	47.81	48.91	54	-6.19	34.6	9.81	45.51	170	265	Average
5470	53.81	54.91	68.2	-14.39	34.6	9.81	45.51	170	265	Peak
5510	97.74	98.83	/	/	34.61	9.8	45.5	170	265	Peak
5510	92.35	93.44	/	/	34.61	9.8	45.5	170	265	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	53.79	54.72	74	-20.21	34.77	9.81	45.51	100	275	Peak
5460	47.6	48.53	54	-6.4	34.77	9.81	45.51	100	275	Average
5470	54.95	55.87	68.2	-13.25	34.78	9.81	45.51	100	275	Peak
5550	94.26	95.08	/	/	34.86	9.82	45.5	100	275	Peak
5550	89.75	90.57	/	/	34.86	9.82	45.5	100	275	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	53.33	54.43	74	-20.67	34.6	9.81	45.51	170	265	Peak
5460	48.21	49.31	54	-5.79	34.6	9.81	45.51	170	265	Average
5470	53.56	54.66	68.2	-14.64	34.6	9.81	45.51	170	265	Peak
5550	96.59	97.61	/	/	34.66	9.82	45.5	170	265	Peak
5550	92.41	93.43	/	/	34.66	9.82	45.5	170	265	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 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	96.13	96.77	/	/	35	9.86	45.5	100	280	Peak
5670	92.63	93.27	/	/	35	9.86	45.5	100	280	Average
5725	55.31	55.86	68.2	-12.89	35.07	9.88	45.5	100	280	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	97.53	98.37	/	/	34.8	9.86	45.5	100	80	Peak
5670	94.08	94.92	/	/	34.8	9.86	45.5	100	80	Average
5725	54.26	55.01	68.2	-13.94	34.87	9.88	45.5	100	80	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.

CHANNEL	TX Channel 142	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
5470	54.02	54.94	68.2	-14.18	34.78	9.81	45.51	100	280	Peak
5710	96.52	97.1	/	/	35.05	9.87	45.5	100	280	Peak
5710	92.69	93.27	/	/	35.05	9.87	45.5	100	280	Average
5850	56.91	57.27	68.2	-11.29	35.22	9.92	45.5	100	280	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
5470	53.62	54.72	68.2	-14.58	34.6	9.81	45.51	100	80	Peak
5710	99.14	99.92	/	/	34.85	9.87	45.5	100	80	Peak
5710	94.38	95.16	/	/	34.85	9.87	45.5	100	80	Average
5850	55.48	56.04	68.2	-12.72	35.02	9.92	45.5	100	80	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ac (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	53.82	54.75	74	-20.18	34.77	9.81	45.51	100	275	Peak
5460	47.37	48.3	54	-6.63	34.77	9.81	45.51	100	275	Average
5470	53.83	54.75	68.2	-14.37	34.78	9.81	45.51	100	275	Peak
5500	96.45	97.35	/	/	34.8	9.8	45.5	100	275	Peak
5500	90.1	91	/	/	34.8	9.8	45.5	100	275	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	52.94	54.04	74	-21.06	34.6	9.81	45.51	170	265	Peak
5460	47.58	48.68	54	-6.42	34.6	9.81	45.51	170	265	Average
5470	54.86	55.96	68.2	-13.34	34.6	9.81	45.51	170	265	Peak
5500	100.68	101.78	/	/	34.6	9.8	45.5	170	265	Peak
5500	94.54	95.64	/	/	34.6	9.8	45.5	170	265	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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	54.19	55.12	74	-19.81	34.77	9.81	45.51	100	275	Peak
5460	47.6	48.53	54	-6.4	34.77	9.81	45.51	100	275	Average
5470	55.39	56.31	68.2	-12.81	34.78	9.81	45.51	100	275	Peak
5580	97.44	98.21	/	/	34.9	9.83	45.5	100	275	Peak
5580	91.58	92.35	/	/	34.9	9.83	45.5	100	275	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	53.17	54.27	74	-20.83	34.6	9.81	45.51	170	265	Peak
5460	48.03	49.13	54	-5.97	34.6	9.81	45.51	170	265	Average
5470	53.76	54.86	68.2	-14.44	34.6	9.81	45.51	170	265	Peak
5580	100.84	101.81	/	/	34.7	9.83	45.5	170	265	Peak
5580	94.84	95.81	/	/	34.7	9.83	45.5	170	265	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	100.15	100.74	/	/	35.04	9.87	45.5	100	280	Peak
5700	94.28	94.87	/	/	35.04	9.87	45.5	100	280	Average
5725	55.49	56.04	68.2	-12.71	35.07	9.88	45.5	100	280	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	102.21	103	/	/	34.84	9.87	45.5	100	80	Peak
5700	95.95	96.74	/	/	34.84	9.87	45.5	100	80	Average
5725	55.6	56.35	68.2	-12.6	34.87	9.88	45.5	100	80	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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
5470	54.29	55.21	68.2	-13.91	34.78	9.81	45.51	100	280	Peak
5720	99.99	100.56	/	/	35.06	9.87	45.5	100	280	Peak
5720	94.19	94.76	/	/	35.06	9.87	45.5	100	280	Average
5850	55.1	55.46	68.2	-13.1	35.22	9.92	45.5	100	280	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
5470	53.4	54.5	68.2	-14.8	34.6	9.81	45.51	100	80	Peak
5720	101.94	102.71	/	/	34.86	9.87	45.5	100	80	Peak
5720	95.84	96.61	/	/	34.86	9.87	45.5	100	80	Average
5850	56.57	57.13	68.2	-11.63	35.02	9.92	45.5	100	80	Peak

REMARKS:

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

802.11ac (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	53.1	54.03	74	-20.9	34.77	9.81	45.51	100	275	Peak
5460	47.88	48.81	54	-6.12	34.77	9.81	45.51	100	275	Average
5470	52.3	53.22	68.2	-15.9	34.78	9.81	45.51	100	275	Peak
5510	92.43	93.32	/	/	34.81	9.8	45.5	100	275	Peak
5510	88.09	88.98	/	/	34.81	9.8	45.5	100	275	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	53.48	54.58	74	-20.52	34.6	9.81	45.51	170	265	Peak
5460	47.64	48.74	54	-6.36	34.6	9.81	45.51	170	265	Average
5470	54.73	55.83	68.2	-13.47	34.6	9.81	45.51	170	265	Peak
5510	95.62	96.71	/	/	34.61	9.8	45.5	170	265	Peak
5510	91.85	92.94	/	/	34.61	9.8	45.5	170	265	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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	53.91	54.84	74	-20.09	34.77	9.81	45.51	100	275	Peak
5460	48.03	48.96	54	-5.97	34.77	9.81	45.51	100	275	Average
5470	54.44	55.36	68.2	-13.76	34.78	9.81	45.51	100	275	Peak
5550	92.62	93.44	/	/	34.86	9.82	45.5	100	275	Peak
5550	88.68	89.5	/	/	34.86	9.82	45.5	100	275	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	53.07	54.17	74	-20.93	34.6	9.81	45.51	170	265	Peak
5460	47.72	48.82	54	-6.28	34.6	9.81	45.51	170	265	Average
5470	53.28	54.38	68.2	-14.92	34.6	9.81	45.51	170	265	Peak
5550	96.73	97.75	/	/	34.66	9.82	45.5	170	265	Peak
5550	91.41	92.43	/	/	34.66	9.82	45.5	170	265	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 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	95.24	95.88	/	/	35	9.86	45.5	100	280	Peak
5670	90.88	91.52	/	/	35	9.86	45.5	100	280	Average
5725	57.04	57.59	68.2	-11.16	35.07	9.88	45.5	100	280	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	95.84	96.68	/	/	34.8	9.86	45.5	100	80	Peak
5670	92.35	93.19	/	/	34.8	9.86	45.5	100	80	Average
5725	55.06	55.81	68.2	-13.14	34.87	9.88	45.5	100	80	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.

CHANNEL	TX Channel 142	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
5470	54.25	55.17	68.2	-13.95	34.78	9.81	45.51	100	280	Peak
5710	95.51	96.09	/	/	35.05	9.87	45.5	100	280	Peak
5710	91.43	92.01	/	/	35.05	9.87	45.5	100	280	Average
5850	55.27	55.63	68.2	-12.93	35.22	9.92	45.5	100	280	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
5470	52.93	54.03	68.2	-15.27	34.6	9.81	45.51	100	80	Peak
5710	97.11	97.89	/	/	34.85	9.87	45.5	100	80	Peak
5710	92.84	93.62	/	/	34.85	9.87	45.5	100	80	Average
5850	54.18	54.74	68.2	-14.02	35.02	9.92	45.5	100	80	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5710MHz: 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	52.83	53.76	74	-21.17	34.77	9.81	45.51	100	280	Peak
5460	47.91	48.84	54	-6.09	34.77	9.81	45.51	100	280	Average
5470	53.82	54.74	68.2	-14.38	34.78	9.81	45.51	100	280	Peak
5530	89.44	90.29	/	/	34.84	9.81	45.5	100	280	Peak
5530	84.23	85.08	/	/	34.84	9.81	45.5	100	280	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	53.38	54.48	74	-20.62	34.6	9.81	45.51	100	80	Peak
5460	47.36	48.46	54	-6.64	34.6	9.81	45.51	100	80	Average
5470	53.48	54.58	68.2	-14.72	34.6	9.81	45.51	100	80	Peak
5530	90.69	91.74	/	/	34.64	9.81	45.5	100	80	Peak
5530	85.24	86.29	/	/	34.64	9.81	45.5	100	80	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
5460	53.43	54.36	74	-20.57	34.77	9.81	45.51	100	280	Peak
5460	48.62	49.55	54	-5.38	34.77	9.81	45.51	100	280	Average
5470	52.53	53.45	68.2	-15.67	34.78	9.81	45.51	100	280	Peak
5610	88.87	89.6	/	/	34.93	9.84	45.5	100	280	Peak
5610	85.9	86.63	/	/	34.93	9.84	45.5	100	280	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	54.94	56.04	74	-19.06	34.6	9.81	45.51	100	80	Peak
5460	47.65	48.75	54	-6.35	34.6	9.81	45.51	100	80	Average
5470	55.49	56.59	68.2	-12.71	34.6	9.81	45.51	100	80	Peak
5610	90.6	91.53	/	/	34.73	9.84	45.5	100	80	Peak
5610	87	87.93	/	/	34.73	9.84	45.5	100	80	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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
5470	53.8	54.72	68.2	-14.4	34.78	9.81	45.51	100	280	Peak
5690	89.84	90.45	/	/	35.03	9.86	45.5	100	280	Peak
5690	87.09	87.7	/	/	35.03	9.86	45.5	100	280	Average
5850	54.47	54.83	68.2	-13.73	35.22	9.92	45.5	100	280	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
5470	54.32	55.42	68.2	-13.88	34.6	9.81	45.51	100	80	Peak
5690	91.3	92.11	/	/	34.83	9.86	45.5	100	80	Peak
5690	88.9	89.71	/	/	34.83	9.86	45.5	100	80	Average
5850	55.49	56.05	68.2	-12.71	35.02	9.92	45.5	100	80	Peak

REMARKS:

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



802.11ax (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	53.41	54.34	74	-20.59	34.77	9.81	45.51	100	280	Peak
5460	48.54	49.47	54	-5.46	34.77	9.81	45.51	100	280	Average
5470	53.4	54.32	68.2	-14.8	34.78	9.81	45.51	100	280	Peak
5500	97.23	98.13	/	/	34.8	9.8	45.5	100	280	Peak
5500	88.31	89.21	/	/	34.8	9.8	45.5	100	280	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	53.72	54.82	74	-20.28	34.6	9.81	45.51	100	270	Peak
5460	47.46	48.56	54	-6.54	34.6	9.81	45.51	100	270	Average
5470	54.92	56.02	68.2	-13.28	34.6	9.81	45.51	100	270	Peak
5500	100.84	101.94	/	/	34.6	9.8	45.5	100	270	Peak
5500	91.08	92.18	/	/	34.6	9.8	45.5	100	270	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	53.54	54.47	74	-20.46	34.77	9.81	45.51	100	280	Peak
5460	47.41	48.34	54	-6.59	34.77	9.81	45.51	100	280	Average
5470	54.65	55.57	68.2	-13.55	34.78	9.81	45.51	100	280	Peak
5580	98.34	99.11	/	/	34.9	9.83	45.5	100	280	Peak
5580	89.34	90.11	/	/	34.9	9.83	45.5	100	280	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	53.32	54.42	74	-20.68	34.6	9.81	45.51	100	270	Peak
5460	47.25	48.35	54	-6.75	34.6	9.81	45.51	100	270	Average
5470	53.57	54.67	68.2	-14.63	34.6	9.81	45.51	100	270	Peak
5580	101.15	102.12	/	/	34.7	9.83	45.5	100	270	Peak
5580	91.25	92.22	/	/	34.7	9.83	45.5	100	270	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	102.04	102.63	/	/	35.04	9.87	45.5	100	280	Peak
5700	92.81	93.4	/	/	35.04	9.87	45.5	100	280	Average
5725	55.59	56.14	68.2	-12.61	35.07	9.88	45.5	100	280	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	101.42	102.21	/	/	34.84	9.87	45.5	100	270	Peak
5700	91.57	92.36	/	/	34.84	9.87	45.5	100	270	Average
5725	54.33	55.08	68.2	-13.87	34.87	9.88	45.5	100	270	Peak

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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
5470	53.55	54.47	68.2	-14.65	34.78	9.81	45.51	100	280	Peak
5720	101.05	101.62	/	/	35.06	9.87	45.5	100	280	Peak
5720	93.01	93.58	/	/	35.06	9.87	45.5	100	280	Average
5850	55.01	55.37	68.2	-13.19	35.22	9.92	45.5	100	280	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
5470	54.71	55.81	68.2	-13.49	34.6	9.81	45.51	100	270	Peak
5720	102.14	102.91	/	/	34.86	9.87	45.5	100	270	Peak
5720	91.98	92.75	/	/	34.86	9.87	45.5	100	270	Average
5850	53.65	54.21	68.2	-14.55	35.02	9.92	45.5	100	270	Peak

REMARKS:

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

802.11ax (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	54.72	55.65	74	-19.28	34.77	9.81	45.51	100	280	Peak
5460	48.14	49.07	54	-5.86	34.77	9.81	45.51	100	280	Average
5470	53.64	54.56	68.2	-14.56	34.78	9.81	45.51	100	280	Peak
5510	91.56	92.45	/	/	34.81	9.8	45.5	100	280	Peak
5510	85.43	86.32	/	/	34.81	9.8	45.5	100	280	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	53.62	54.72	74	-20.38	34.6	9.81	45.51	100	270	Peak
5460	47.29	48.39	54	-6.71	34.6	9.81	45.51	100	270	Average
5470	55.47	56.57	68.2	-12.73	34.6	9.81	45.51	100	270	Peak
5510	95.75	96.84	/	/	34.61	9.8	45.5	100	270	Peak
5510	88.42	89.51	/	/	34.61	9.8	45.5	100	270	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	53.1	54.03	74	-20.9	34.77	9.81	45.51	100	280	Peak
5460	48.9	49.83	54	-5.1	34.77	9.81	45.51	100	280	Average
5470	55.44	56.36	68.2	-12.76	34.78	9.81	45.51	100	280	Peak
5550	93.72	94.54	/	/	34.86	9.82	45.5	100	280	Peak
5550	86.51	87.33	/	/	34.86	9.82	45.5	100	280	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	53.41	54.51	74	-20.59	34.6	9.81	45.51	100	270	Peak
5460	48.18	49.28	54	-5.82	34.6	9.81	45.51	100	270	Average
5470	53.56	54.66	68.2	-14.64	34.6	9.81	45.51	100	270	Peak
5550	95.62	96.64	/	/	34.66	9.82	45.5	100	270	Peak
5550	87.1	88.12	/	/	34.66	9.82	45.5	100	270	Average

REMARKS:

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

CHANNEL	TX Channel 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	96.02	96.66	/	/	35	9.86	45.5	100	280	Peak
5670	89.2	89.84	/	/	35	9.86	45.5	100	280	Average
5725	53.49	54.41	68.2	-14.71	34.78	9.81	45.51	100	280	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	97.48	98.32	/	/	34.8	9.86	45.5	100	270	Peak
5670	88.56	89.4	/	/	34.8	9.86	45.5	100	270	Average
5725	56.37	57.12	68.2	-11.83	34.87	9.88	45.5	100	270	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.

CHANNEL	TX Channel 142	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
5470	55.89	56.81	68.2	-12.31	34.78	9.81	45.51	100	280	Peak
5710	95.82	96.4	/	/	35.05	9.87	45.5	100	280	Peak
5710	89.58	90.16	/	/	35.05	9.87	45.5	100	280	Average
5850	56.85	57.21	68.2	-11.35	35.22	9.92	45.5	100	280	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
5470	53.86	54.96	68.2	-14.34	34.6	9.81	45.51	100	270	Peak
5710	95.27	96.05	/	/	34.85	9.87	45.5	100	270	Peak
5710	89.73	90.51	/	/	21.27	9.87	45.5	100	270	Average
5850	54.39	54.95	68.2	-13.81	35.02	9.92	45.5	100	270	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.

802.11ax (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	53.48	54.41	74	-20.52	34.77	9.81	45.51	100	280	Peak
5460	48.09	49.02	54	-5.91	34.77	9.81	45.51	100	280	Average
5470	55.38	56.3	68.2	-12.82	34.78	9.81	45.51	100	280	Peak
5530	89.3	90.15	/	/	34.84	9.81	45.5	100	280	Peak
5530	84.24	85.09	/	/	34.84	9.81	45.5	100	280	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	52.69	53.79	74	-21.31	34.6	9.81	45.51	100	270	Peak
5460	48.18	49.28	54	-5.82	34.6	9.81	45.51	100	270	Average
5470	52.69	53.79	68.2	-15.51	34.6	9.81	45.51	100	270	Peak
5530	90.2	91.25	/	/	34.64	9.81	45.5	100	270	Peak
5530	85.27	86.32	/	/	34.64	9.81	45.5	100	270	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
5460	52.9	53.83	74	-21.1	34.77	9.81	45.51	100	280	Peak
5460	48.17	49.1	54	-5.83	34.77	9.81	45.51	100	280	Average
5470	54.06	54.98	68.2	-14.14	34.78	9.81	45.51	100	280	Peak
5610	89.63	90.36	/	/	34.93	9.84	45.5	100	280	Peak
5610	85.5	86.23	/	/	34.93	9.84	45.5	100	280	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	53.03	54.13	74	-20.97	34.6	9.81	45.51	100	270	Peak
5460	47.65	48.75	54	-6.35	34.6	9.81	45.51	100	270	Average
5470	53.82	54.92	68.2	-14.38	34.6	9.81	45.51	100	270	Peak
5610	91.5	92.43	/	/	34.73	9.84	45.5	100	270	Peak
5610	86.08	87.01	/	/	34.73	9.84	45.5	100	270	Average

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.

CHANNEL	TX Channel 138	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
5470	53.35	54.27	68.2	-14.85	34.78	9.81	45.51	100	280	Peak
5690	92.86	93.47	/	/	35.03	9.86	45.5	100	280	Peak
5690	87.11	87.72	/	/	35.03	9.86	45.5	100	280	Average
5850	55.11	55.47	68.2	-13.09	35.22	9.92	45.5	100	280	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
5470	54.32	55.42	68.2	-13.88	34.6	9.81	45.51	100	270	Peak
5690	90.6	91.41	/	/	34.83	9.86	45.5	100	270	Peak
5690	87.94	88.75	/	/	34.83	9.86	45.5	100	270	Average
5850	55.72	56.28	68.2	-12.48	35.02	9.92	45.5	100	270	Peak

REMARKS:

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



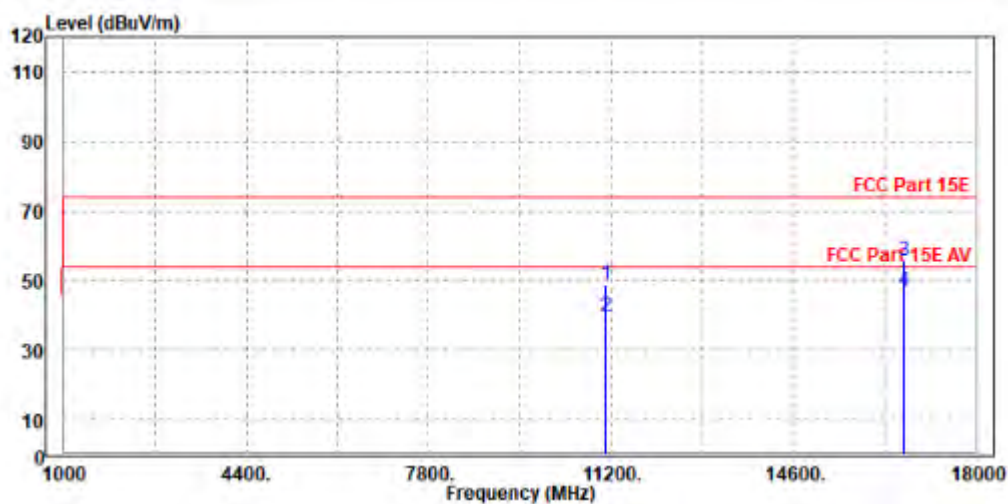
802.11ax (40MHz)

Worst case harmonic:

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

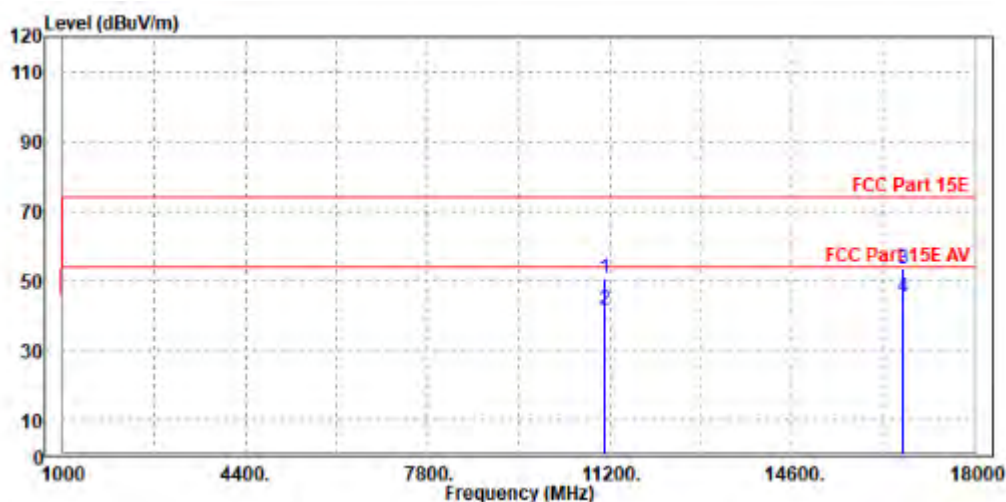
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read	Limit	Over			
	MHz	dBuV/m	Level	Line	Limit	Factor	Remark	Pol/Phase
			dBuV	dBuV/m	dB	dB/m		
1	11098.000	48.87	41.57	74.00	-25.13	7.30	Peak	Horizontal
2	11098.000	39.92	32.62	54.00	-14.08	7.30	Average	Horizontal
3	PK16650.000	55.59	39.27	74.00	-18.41	16.32	Peak	Horizontal
4	PP16650.000	47.16	30.84	54.00	-6.84	16.32	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	11100.000	50.53	42.79	74.00	-23.47	7.74	Peak	Vertical
2	11100.000	41.44	33.70	54.00	-12.56	7.74	Average	Vertical
3	PK16657.000	53.56	39.06	74.00	-20.44	14.50	Peak	Vertical
4	PP16657.000	45.02	30.52	54.00	-8.98	14.50	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.



5G WIFI-RU

802.11ax (20MHz) (RU242):

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	56.36	57.29	74	-17.64	34.77	9.81	45.51	100	105	Peak
5460	47.8	48.73	54	-6.2	34.77	9.81	45.51	100	105	Average
5470	54.25	55.17	68.2	-13.95	34.78	9.81	45.51	100	105	Peak
5500	92.67	93.57	/	/	34.8	9.8	45.5	100	105	Peak
5500	84.11	85.01	/	/	34.8	9.8	45.5	100	105	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	53.2	54.3	74	-20.8	34.6	9.81	45.51	108	77	Peak
5460	47.11	48.21	54	-6.89	34.6	9.81	45.51	108	77	Average
5470	54.05	55.15	68.2	-14.15	34.6	9.81	45.51	108	77	Peak
5500	96.95	98.05	/	/	34.6	9.8	45.5	108	77	Peak
5500	87.75	88.85	/	/	34.6	9.8	45.5	108	77	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.



802.11ax (20MHz) (RU242):

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	54.15	55.08	74	-19.85	34.77	9.81	45.51	100	105	Peak
5460	47.97	48.9	54	-6.03	34.77	9.81	45.51	100	105	Average
5470	54.38	55.3	68.2	-13.82	34.78	9.81	45.51	100	105	Peak
5580	92	92.77	/	/	34.9	9.83	45.5	100	105	Peak
5580	83.83	84.6	/	/	34.9	9.83	45.5	100	105	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	55.09	56.19	74	-18.91	34.6	9.81	45.51	108	77	Peak
5460	47.61	48.71	54	-6.39	34.6	9.81	45.51	108	77	Average
5470	54.2	55.3	68.2	-14	34.6	9.81	45.51	108	77	Peak
5580	97.09	98.06	/	/	34.7	9.83	45.5	108	77	Peak
5580	88.51	89.48	/	/	34.7	9.83	45.5	108	77	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	93.83	94.42	/	/	35.04	9.87	45.5	100	105	Peak
5700	85.45	86.04	/	/	35.04	9.87	45.5	100	105	Average
5725	55.99	56.54	68.2	-12.21	35.07	9.88	45.5	100	105	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	98.76	99.55	/	/	34.84	9.87	45.5	108	77	Peak
5700	90.26	91.05	/	/	34.84	9.87	45.5	108	77	Average
5725	56.06	56.81	68.2	-12.14	34.87	9.88	45.5	108	77	Peak

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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
5470	53.42	54.34	68.2	-14.78	34.78	9.81	45.51	100	105	Peak
5720	94.4	94.97	/	/	35.06	9.87	45.5	100	105	Peak
5720	85.83	86.4	/	/	35.06	9.87	45.5	100	105	Average
5850	55.47	55.83	68.2	-12.73	35.22	9.92	45.5	100	105	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
5470	53.44	54.54	68.2	-14.76	34.6	9.81	45.51	108	77	Peak
5720	99.41	100.18	/	/	34.86	9.87	45.5	108	77	Peak
5720	90.19	90.96	/	/	34.86	9.87	45.5	108	77	Average
5850	54.7	55.26	68.2	-13.5	35.02	9.92	45.5	108	77	Peak

REMARKS:

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



802.11ax (40MHz) (RU484):

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	54.26	55.19	74	-19.74	34.77	9.81	45.51	100	105	Peak
5460	47.95	48.88	54	-6.05	34.77	9.81	45.51	100	105	Average
5470	53.69	54.61	68.2	-14.51	34.78	9.81	45.51	100	105	Peak
5510	89.27	90.16	/	/	34.81	9.8	45.5	100	105	Peak
5510	81.28	82.17	/	/	34.81	9.8	45.5	100	105	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	53.43	54.53	74	-20.57	34.6	9.81	45.51	108	77	Peak
5460	48.15	49.25	54	-5.85	34.6	9.81	45.51	108	77	Average
5470	53.3	54.4	68.2	-14.9	34.6	9.81	45.51	108	77	Peak
5510	92.75	93.84	/	/	34.61	9.8	45.5	108	77	Peak
5510	84.92	86.01	/	/	34.61	9.8	45.5	108	77	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	53.75	54.68	74	-20.25	34.77	9.81	45.51	100	105	Peak
5460	48.62	49.55	54	-5.38	34.77	9.81	45.51	100	105	Average
5470	54.18	55.1	68.2	-14.02	34.78	9.81	45.51	100	105	Peak
5550	87.87	88.69	/	/	34.86	9.82	45.5	100	105	Peak
5550	80.98	81.8	/	/	34.86	9.82	45.5	100	105	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	56.17	57.27	74	-17.83	34.6	9.81	45.51	108	77	Peak
5460	47.66	48.76	54	-6.34	34.6	9.81	45.51	108	77	Average
5470	54.69	55.79	68.2	-13.51	34.6	9.81	45.51	108	77	Peak
5550	91.9	92.92	/	/	34.66	9.82	45.5	108	77	Peak
5550	85.01	86.03	/	/	34.66	9.82	45.5	108	77	Average

REMARKS:

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

CHANNEL	TX Channel 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	88.61	89.25	/	/	35	9.86	45.5	100	105	Peak
5670	81.58	82.22	/	/	35	9.86	45.5	100	105	Average
5725	55.27	55.82	68.2	-12.93	35.07	9.88	45.5	100	105	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	93.16	94	/	/	34.8	9.86	45.5	108	77	Peak
5670	86.31	87.15	/	/	34.8	9.86	45.5	108	77	Average
5725	56.88	57.63	68.2	-11.32	34.87	9.88	45.5	108	77	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.

CHANNEL	TX Channel 142	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
5470	53.72	54.64	68.2	-14.48	34.78	9.81	45.51	100	105	Peak
5710	89.83	90.41	/	/	35.05	9.87	45.5	100	105	Peak
5710	82.7	83.28	/	/	35.05	9.87	45.5	100	105	Average
5850	56.06	56.42	68.2	-12.14	35.22	9.92	45.5	100	105	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
5470	53.19	54.29	68.2	-15.01	34.6	9.81	45.51	108	77	Peak
5710	94.05	94.83	/	/	34.85	9.87	45.5	108	77	Peak
5710	87.29	88.07	/	/	34.85	9.87	45.5	108	77	Average
5850	55.01	55.57	68.2	-13.19	35.02	9.92	45.5	108	77	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5710MHz: Fundamental frequency.
3. #: Out of restricted band.



802.11ax (80MHz) (RU996):

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	53.73	54.66	74	-20.27	34.77	9.81	45.51	100	105	Peak
5460	48.17	49.1	54	-5.83	34.77	9.81	45.51	100	105	Average
5470	53.08	54	68.2	-15.12	34.78	9.81	45.51	100	105	Peak
5530	84.26	85.11	/	/	34.84	9.81	45.5	100	105	Peak
5530	78.6	79.45	/	/	34.84	9.81	45.5	100	105	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	53.91	55.01	74	-20.09	34.6	9.81	45.51	108	77	Peak
5460	48.12	49.22	54	-5.88	34.6	9.81	45.51	108	77	Average
5470	55.28	56.38	68.2	-12.92	34.6	9.81	45.51	108	77	Peak
5530	89.08	90.13	/	/	34.64	9.81	45.5	108	77	Peak
5530	82.43	83.48	/	/	34.64	9.81	45.5	108	77	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
5460	53.26	54.19	74	-20.74	34.77	9.81	45.51	100	105	Peak
5460	48.14	49.07	54	-5.86	34.77	9.81	45.51	100	105	Average
5470	52.93	53.85	68.2	-15.27	34.78	9.81	45.51	100	105	Peak
5610	84.29	85.02	/	/	34.93	9.84	45.5	100	105	Peak
5610	78.94	79.67	/	/	34.93	9.84	45.5	100	105	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	53.61	54.71	74	-20.39	34.6	9.81	45.51	108	77	Peak
5460	47.44	48.54	54	-6.56	34.6	9.81	45.51	108	77	Average
5470	52.2	53.3	68.2	-16	34.6	9.81	45.51	108	77	Peak
5610	89.6	90.53	/	/	34.73	9.84	45.5	108	77	Peak
5610	83.95	84.88	/	/	34.73	9.84	45.5	108	77	Average

REMARKS:

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

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
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
5470	53.48	54.4	68.2	-14.72	34.78	9.81	45.51	100	105	Peak
5690	85.73	86.34	/	/	35.03	9.86	45.5	100	105	Peak
5690	79.33	79.94	/	/	35.03	9.86	45.5	100	105	Average
5850	54.04	54.4	68.2	-14.16	35.22	9.92	45.5	100	105	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
5470	53.8	54.9	68.2	-14.4	34.6	9.81	45.51	108	77	Peak
5690	90.05	90.86	/	/	34.83	9.86	45.5	108	77	Peak
5690	83.79	84.6	/	/	34.83	9.86	45.5	108	77	Average
5850	56.87	57.43	68.2	-11.33	35.02	9.92	45.5	108	77	Peak

REMARKS:

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



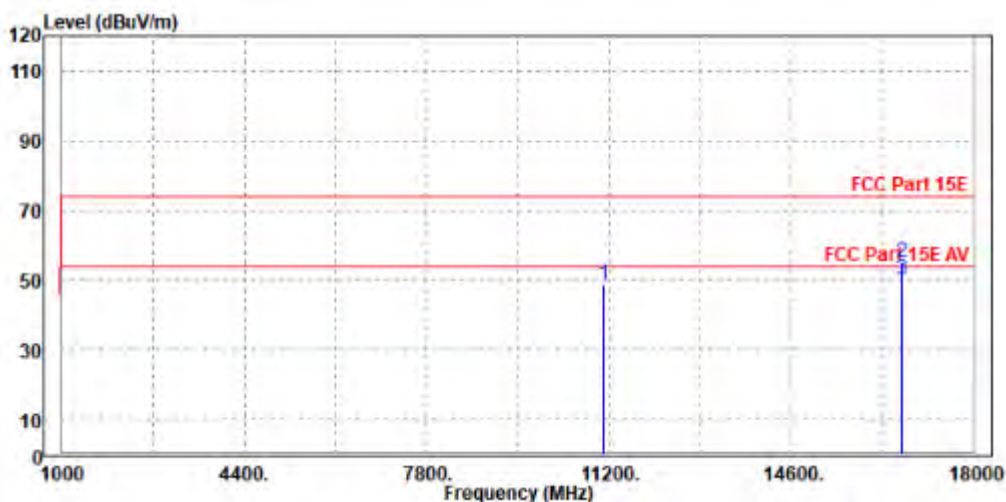
802.11ax (40MHz) (RU484):

Worst case harmonic:

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

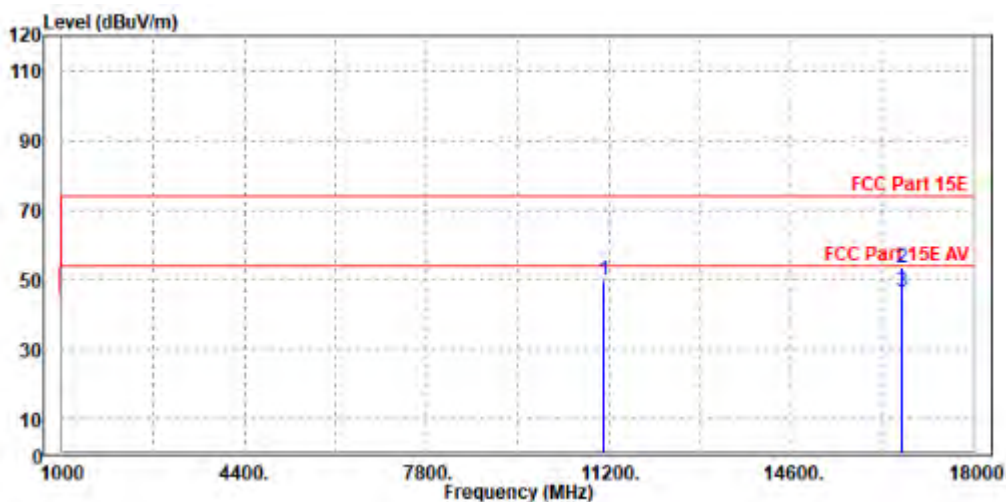
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

	Freq	Level	Read	Limit	Over			
	MHz	dBuV/m	Level	Line	Limit	Factor	Remark	Pol/Phase
			dBuV	dBuV/m	dB	dB/m		
1	11100.000	48.84	41.54	74.00	-25.16	7.30	Peak	Horizontal
2	PK16657.000	55.41	39.04	74.00	-18.59	16.37	Peak	Horizontal
3	PP16657.000	50.21	33.84	54.00	-3.79	16.37	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	11098.000	49.81	42.07	74.00	-24.19	7.74	Peak	Vertical
2	PK16650.000	53.36	38.91	74.00	-20.64	14.45	Peak	Vertical
3	PP16650.000	46.38	31.93	54.00	-7.62	14.45	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5500MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

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	103.18	103.71	/	/	35.09	9.88	45.5	100	280	Peak
5745	95.62	96.15	/	/	35.09	9.88	45.5	100	280	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	103.57	104.3	/	/	34.89	9.88	45.5	100	270	Peak
5745	96.51	97.24	/	/	34.89	9.88	45.5	100	270	Average

REMARKS:

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

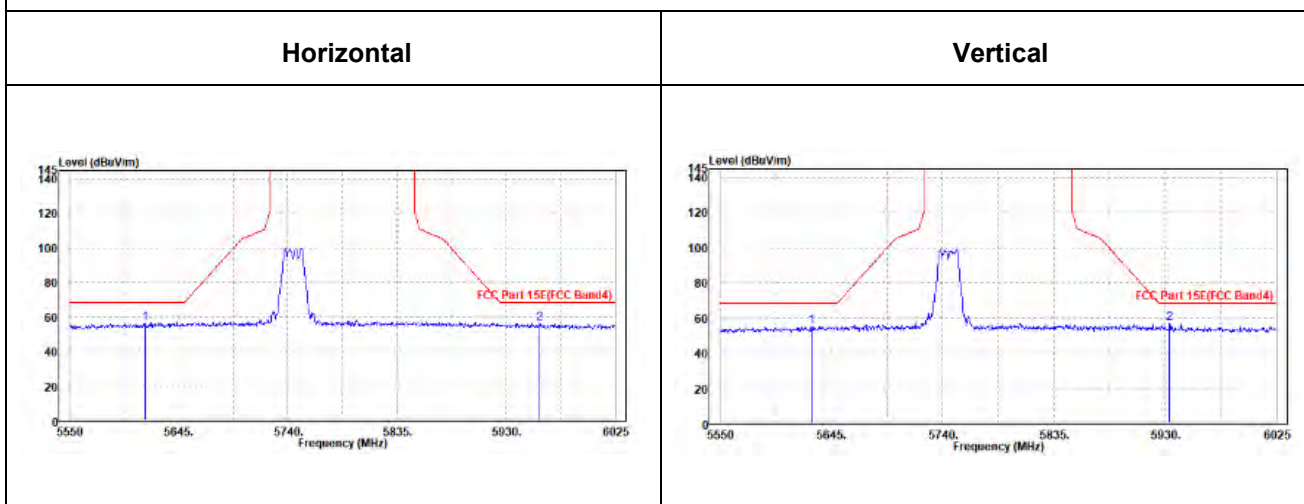


OUBE DATA

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
5615.55	56.03	56.75	68.2	-12.17	34.94	9.84	45.5	100	280	Peak
5959.45	56.43	56.62	68.2	-11.77	35.35	9.96	45.5	100	280	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
5627.9	55.2	56.11	68.2	-13	34.75	9.84	45.5	100	0	Peak
5933.8	57.01	57.44	68.2	-11.19	35.12	9.95	45.5	100	0	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	103.58	104.04	/	/	35.14	9.9	45.5	100	280	Peak
5785	97.22	97.68	/	/	35.14	9.9	45.5	100	280	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	103.65	104.31	/	/	34.94	9.9	45.5	100	270	Peak
5785	97.53	98.19	/	/	34.94	9.9	45.5	100	270	Average

REMARKS:

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

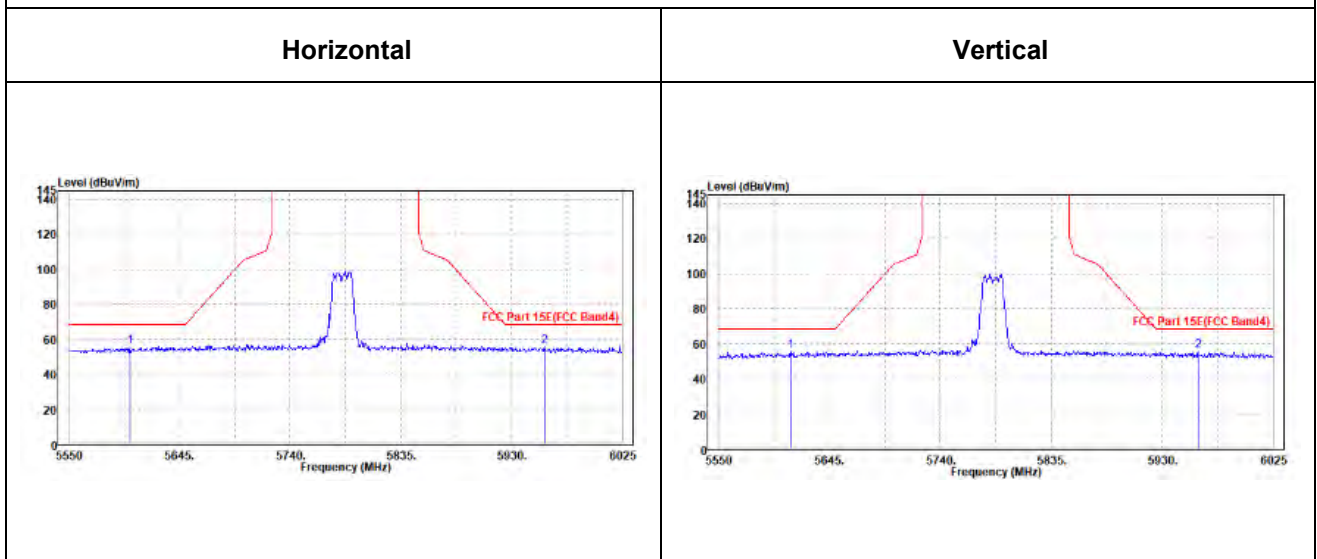


OUBE DATA

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
5602.725	55.62	56.37	68.2	-12.58	34.92	9.83	45.5	100	0	Peak
5958.5	55.48	55.67	68.2	-12.72	35.35	9.96	45.5	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
5611.75	55.58	56.51	68.2	-12.62	34.73	9.84	45.5	100	360	Peak
5960.875	55.66	56.05	68.2	-12.54	35.15	9.96	45.5	100	360	Peak

CH 157





CHANNEL	TX Channel 165	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
5825	102.73	103.13	/	/	35.19	9.91	45.5	100	280	Peak
5825	96.94	97.34	/	/	35.19	9.91	45.5	100	280	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
5825	102.27	102.87	/	/	34.99	9.91	45.5	100	270	Peak
5825	96.62	97.22	/	/	34.99	9.91	45.5	100	270	Average

REMARKS:

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