



Test Report No.: W7L-P24010017RF03



FCC TEST REPORT

(Part 15, Subpart E)

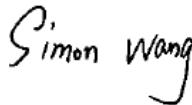

Applicant:	HMD Global Oy
Address:	Bertel Jungin aukio 9,02600 Espoo,Finland

Manufacturer or Supplier:	HMD Global Oy
Address:	Bertel Jungin aukio 9,02600 Espoo,Finland
Product:	Tablet PC
Brand Name:	HMD
Model Name:	TA-1597
FCC ID:	2AJOTTA-1597
Date of tests:	Aug. 03, 2022 ~ Sep. 16, 2022 Jan. 26, 2024 ~ Mar. 28, 2024

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: Mar. 28, 2024	 Date: Mar. 28, 2024

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BUREAU
VERITAS

Test Report No.: W7L-P24010017RF03

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P24010017RF03	Original release	Mar. 28, 2024



1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

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

NOTE:

1. Except the data of RSE and Band Edge Measurement, other datas of 802.11a & 802.11n/ac (20/40) & 802.11ac 80 please refer to the appendix.
2. Only the worst data were reported
3. This report the data pls refers to the report of W7L-P22070039RF03(model: TA-1487, FCC ID: 2AJOTTA-1487), the differences between TA-1487 and TA-1597 are model name, FCC ID, earphone model, brand name and software version. TA-1597 import the 2nd supply material and update the standard. This report verify power and RSE worse case. The result of power is similar or lower. So this report only update RSE worse case(802.11n (40MHz) CH62) data.
4. List of the verified results (worse case) in the test item as follows:

Test Item / Report No.	W7L-P22070039RF03	W7L-P24010017RF03
Radiated Emission Test (30MHz ~ 1GHz)	Margin:-9.55dB	Margin:-7.69dB
Radiated Emission Test (Above 1GHz)	802.11n (40MHz)_CH62 Margin: -3.12dB	802.11n (40MHz)_CH62 Margin:-3.05dB
Harmonic	802.11n (40MHz)_CH62 Margin: -3.89dB	802.11n (40MHz)_CH62 Margin: -4.09dB
Remark: All validation data are within 3dB variation or better.		



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)	±2.16 dB
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	Tablet PC
BRAND NAME	HMD
MODEL NAME	TA-1597
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.85Vdc (Li-ion, battery)
MODULATION	OFDM
TRANSFER RATE	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 150.0Mbps 802.11ac: up to 433.3Mbps
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	5180 ~ 5240MHz: 4 for 802.11a, 802.11n/ac (20MHz) 2 for 802.11n/ac (40MHz) 1 for 802.11ac(80MHz) 5260 ~ 5320MHz: 4 for 802.11a, 802.11n/ac (20MHz) 2 for 802.11n/ac (40MHz) 1 for 802.11ac (80MHz) 5500 ~ 5720MHz: 12 for 802.11a, 802.11n/ac (20MHz)/ 6 for 802.11n/ac (40MHz) 3 for 802.11ac (80MHz) 5745 ~ 5825MHz: 5 for 802.11a, 802.11n/ac (20MHz) 2 for 802.11n/ac (40MHz) 1 for 802.11ac (80MHz)
AVERAGE POWER	38.73mW for 5180 ~ 5240MHz 35.24mW for 5260 ~ 5320MHz 41.88mW for 5500 ~ 5720MHz 37.24mW for 5745 ~ 5825MHz
ANTENNA TYPE	PIFA Antenna
ANTENNA GAIN	-0.24 dBi for 5180 ~ 5240MHz -0.24 dBi for 5260 ~ 5320MHz -0.24 dBi for 5500 ~ 5720MHz -0.24 dBi for 5745 ~ 5825MHz
HW VERSION	EM_U1630_V1.2 L20
SW VERSION	V2.270_B01



I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable: non-shielded cable, with w/o ferrite core, 1.0 meter Earphone: non-shielded cable, with w/o ferrite core, 1.5 meter

NOTE:

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

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

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



List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	HMD	Guangdong Fenghua New Energy Co., Ltd.	WTT80	Capacity: 3.8 Vdc, 8000mAh
AC Adapter	HMD	Shenzhen Baijunda Electronic Co., Ltd	AD-010U	I/P: 100-240Vac, 0.35A, O/P: 5.0Vdc, 2.0A
Earphone	N/A	JUWEI ELECTRONICS CO., LTD	JWEP1299-Y50H	Signal Line, 1.5meter
USB Cable	N/A	Saibao (Jiangxi) Industrial Co., Ltd	AC-2A	Signal Line, 1.0meter



2.2 DESCRIPTION OF TEST MODES

FOR 5180 ~ 5240MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210 MHz		

FOR 5260 ~ 5320MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290 MHz		



FOR 5500 ~ 5720MHz

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

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

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

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

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

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



FOR 5745 ~ 5825MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

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

CHANNEL	FREQUENCY
155	5775 MHz



2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

Where **RE≥1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE:
The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.
NOTE: “-” means no effect.

RADIATED EMISSION TEST (BELOW 1GHz):

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11n (40MHz)	5260-5320	54 to 62	62	OFDM	MCS0



RADIATED EMISSION TEST (ABOVE 1GHz):

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

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

POWER LINE CONDUCTED EMISSION TEST:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ac (80MHz)	5180-5240	42	42	OFDM	MCS0



BANDEDGE MEASUREMENT:

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

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



ANTENNA PORT CONDUCTED MEASUREMENT:

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

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



TEST CONDITION:

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



2.3 DUTY CYCLE OF TEST SIGNAL

Please Refer to Appendix. Of this test report.

WORST-CASE DATA:

Measured Duty Cycle		
Mode		Duty Cycle [%]
		ANT1
5GHZ	11a	89.10
	11n20	87.41
	11n40	76.47
	11ac20	87.50
	11ac40	75.64
	11ac80	61.22

Note:

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

2.4 DESCRIPTION OF SUPPORT UNITS

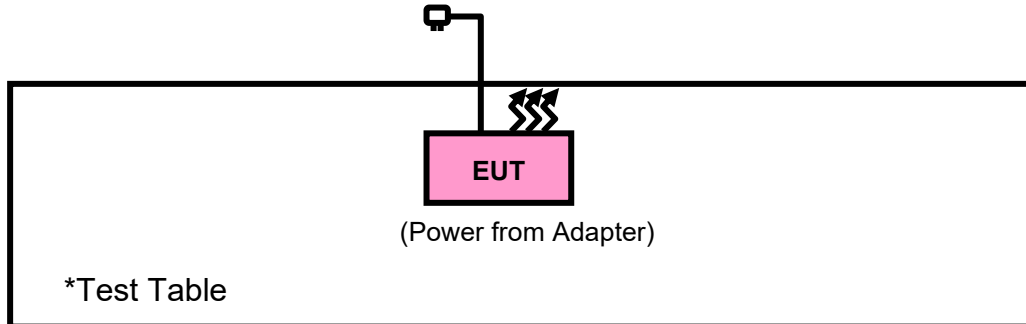
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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	Thnikpad L440	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 C63.10-2020

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:

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

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

#1

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. 25, 21	Aug. 24, 22
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. 25,21	Aug. 24,22
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.05,21	Sep. 04,22
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep. 04,22	Sep. 03,23



#2

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Nov. 14,23	Nov. 13,26
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 18,23	Feb. 17,24
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 17,24	Feb. 16,25
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 18,23	Feb. 17,24
Horn Antenna	ETS-LINDGREN	3117	00168692	Feb. 17,24	Feb. 16,25
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Sep.03, 23	Sep.02, 24
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	N/A	May. 06,23	May. 05,24
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 28,23	Mar. 27,24
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Mar. 27,24	Mar. 26,25
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May. 06,23	May. 05,24
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.10,23	May.09,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 17,23	Feb. 16,24
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 16,24	Feb. 15,25
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 11,23	Aug. 10,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 14,23	Feb. 13,24
Power Meter	Anritsu	ML2495A	1506002	Feb. 13,24	Feb. 12,25
Power Sensor	Anritsu	MA2411B	1339352	Feb. 14,23	Feb. 13,24
Power Sensor	Anritsu	MA2411B	1339352	Feb. 13,24	Feb. 12,25
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep.02,23	Sep.01,24

- 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.

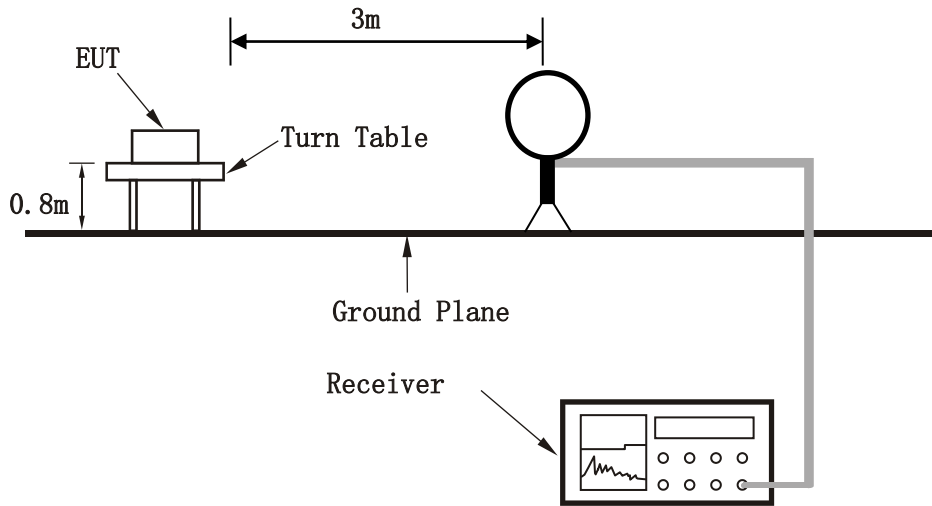
3.1.5 DEVIATION FROM TEST STANDARD

No deviation.

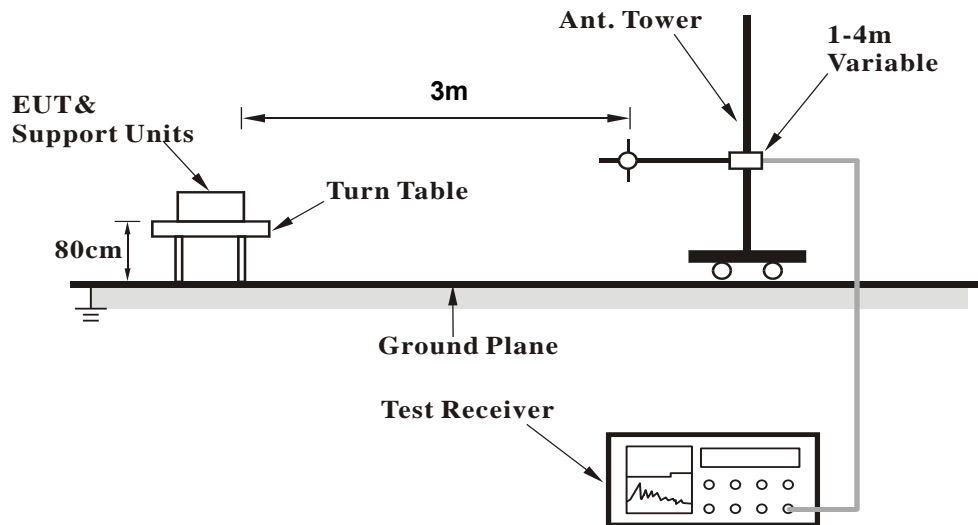


3.1.6 TEST SETUP

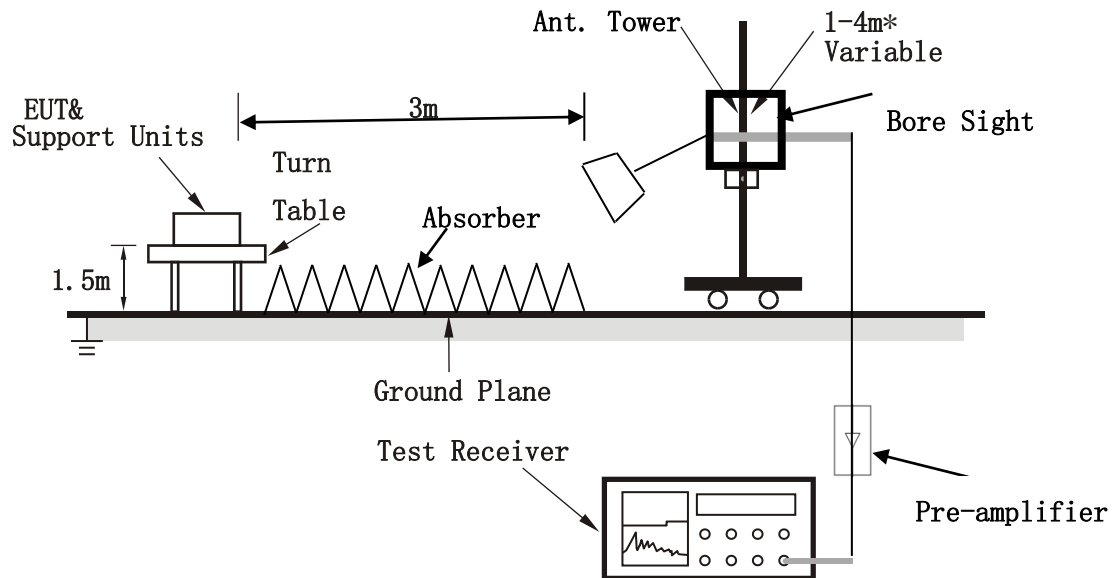
<Frequency Range 9KHz~30MHz >



< 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

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



3.1.8 TEST RESULTS

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

30 MHz – 1GHz data:

Band 2

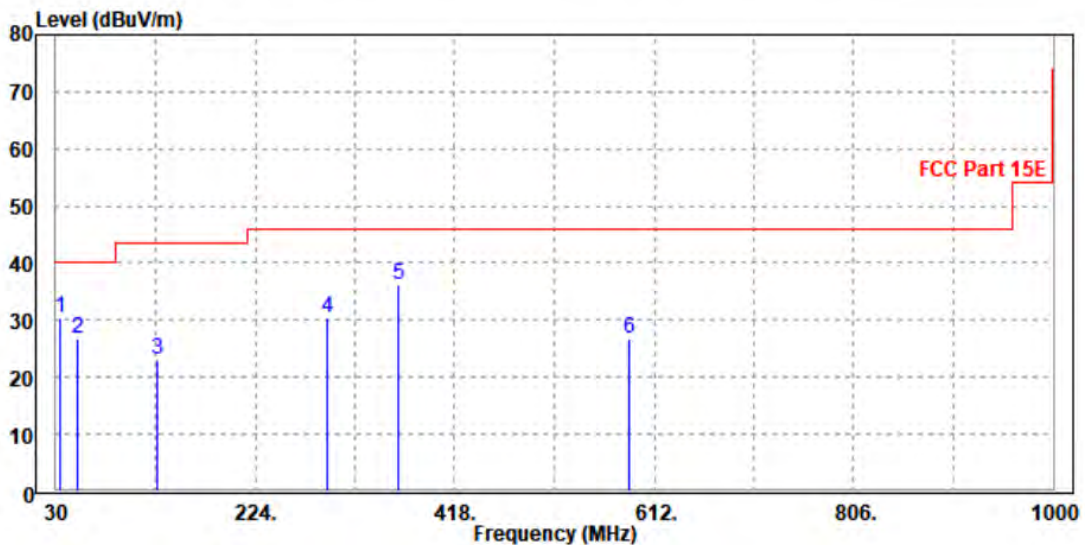
802.11n (40MHz)

CHANNEL	TX Channel 62	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
34.85	30.57	43.49	40	-9.43	18.27	6.2	37.39	100	0	QP
50.37	26.65	49.63	40	-13.35	8.17	6.29	37.44	100	0	QP
128.94	22.99	45.18	43.5	-20.51	8.04	6.68	36.91	100	0	QP
294.81	30.33	45.41	46	-15.67	14.23	7.3	36.61	100	0	QP
362.71	36.18	49.59	46	-9.82	15.87	7.47	36.75	100	0	QP
586.78	26.9	35.79	46	-19.1	20.09	8.18	37.16	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.



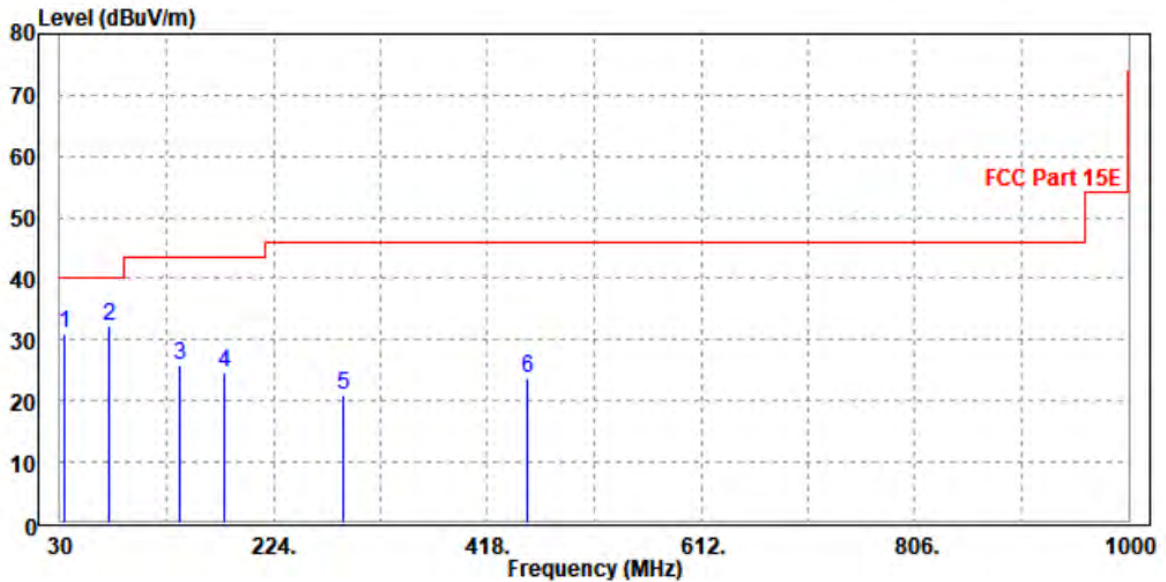


CHANNEL	Channel 62	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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
33.88	31.11	43.77	40	-8.89	18.55	6.18	37.39	100	0	QP
74.62	32.31	55.38	40	-7.69	7.58	6.41	37.06	100	0	QP
139.61	25.99	44.39	43.5	-17.51	11.77	6.7	36.87	100	0	QP
179.38	24.66	41.65	43.5	-18.84	12.86	6.85	36.7	100	0	QP
287.05	21.09	35.98	46	-24.91	14.44	7.28	36.61	100	0	QP
453.89	23.72	34.29	46	-22.28	18.62	7.77	36.96	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.





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	58.11	59.18	74	-15.89	34.52	9.92	45.51	100	290	Peak
5150	50.17	51.24	54	-3.83	34.52	9.92	45.51	100	290	Average
5180	102.78	103.84	/	/	34.54	9.91	45.51	100	290	Peak
5180	95.45	96.51	/	/	34.54	9.91	45.51	100	290	Average
5350	53.63	54.61	74	-20.37	34.68	9.85	45.51	100	290	Peak
5350	47.15	48.13	54	-6.85	34.68	9.85	45.51	100	290	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.62	55.61	74	-19.38	34.6	9.92	45.51	100	140	Peak
5150	49.44	50.43	54	-4.56	34.6	9.92	45.51	100	140	Average
5180	97.23	98.23	/	/	34.6	9.91	45.51	100	140	Peak
5180	89.87	90.87	/	/	34.6	9.91	45.51	100	140	Average
5350	53.01	54.07	74	-20.99	34.6	9.85	45.51	100	140	Peak
5350	46.92	47.98	54	-7.08	34.6	9.85	45.51	100	140	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	54.22	55.29	74	-19.78	34.52	9.92	45.51	100	290	Peak
5150	48.58	49.65	54	-5.42	34.52	9.92	45.51	100	290	Average
5200	102.55	103.6	/	/	34.56	9.9	45.51	100	290	Peak
5200	95.42	96.47	/	/	34.56	9.9	45.51	100	290	Average
5350	53.61	54.59	74	-20.39	34.68	9.85	45.51	100	290	Peak
5350	47.24	48.22	54	-6.76	34.68	9.85	45.51	100	290	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.23	57.22	74	-17.77	34.6	9.92	45.51	100	140	Peak
5150	48.74	49.73	54	-5.26	34.6	9.92	45.51	100	140	Average
5200	97.16	98.17	/	/	34.6	9.9	45.51	100	140	Peak
5200	90.61	91.62	/	/	34.6	9.9	45.51	100	140	Average
5350	53.44	54.5	74	-20.56	34.6	9.85	45.51	100	140	Peak
5350	47.13	48.19	54	-6.87	34.6	9.85	45.51	100	140	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.93	57	74	-18.07	34.52	9.92	45.51	100	290	Peak
5150	48.6	49.67	54	-5.4	34.52	9.92	45.51	100	290	Average
5240	103.02	104.05	/	/	34.59	9.89	45.51	100	290	Peak
5240	95.46	96.49	/	/	34.59	9.89	45.51	100	290	Average
5350	53.5	54.48	74	-20.5	34.68	9.85	45.51	100	290	Peak
5350	47.29	48.27	54	-6.71	34.68	9.85	45.51	100	290	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.75	55.74	74	-19.25	34.6	9.92	45.51	100	140	Peak
5150	48.74	49.73	54	-5.26	34.6	9.92	45.51	100	140	Average
5240	96.87	97.89	/	/	34.6	9.89	45.51	100	140	Peak
5240	90.1	91.12	/	/	34.6	9.89	45.51	100	140	Average
5350	53.5	54.56	74	-20.5	34.6	9.85	45.51	100	140	Peak
5350	47.3	48.36	54	-6.7	34.6	9.85	45.51	100	140	Average

REMARKS:

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



802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.97	58.04	74	-17.03	34.52	9.92	45.51	100	290	Peak
5150	50.67	51.74	54	-3.33	34.52	9.92	45.51	100	290	Average
5180	103.66	104.72	/	/	34.54	9.91	45.51	100	290	Peak
5180	95.5	96.56	/	/	34.54	9.91	45.51	100	290	Average
5350	55.01	55.99	74	-18.99	34.68	9.85	45.51	100	290	Peak
5350	47.1	48.08	54	-6.9	34.68	9.85	45.51	100	290	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.21	57.2	74	-17.79	34.6	9.92	45.51	100	140	Peak
5150	49.77	50.76	54	-4.23	34.6	9.92	45.51	100	140	Average
5180	98.05	99.05	/	/	34.6	9.91	45.51	100	140	Peak
5180	89.89	90.89	/	/	34.6	9.91	45.51	100	140	Average
5350	53.21	54.27	74	-20.79	34.6	9.85	45.51	100	140	Peak
5350	47.39	48.45	54	-6.61	34.6	9.85	45.51	100	140	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.14	57.21	74	-17.86	34.52	9.92	45.51	100	290	Peak
5150	48.85	49.92	54	-5.15	34.52	9.92	45.51	100	290	Average
5200	103.02	104.07	/	/	34.56	9.9	45.51	100	290	Peak
5200	95.21	96.26	/	/	34.56	9.9	45.51	100	290	Average
5350	55.49	56.47	74	-18.51	34.68	9.85	45.51	100	290	Peak
5350	47.08	48.06	54	-6.92	34.68	9.85	45.51	100	290	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.53	56.52	74	-18.47	34.6	9.92	45.51	100	140	Peak
5150	49	49.99	54	-5	34.6	9.92	45.51	100	140	Average
5200	98.46	99.47	/	/	34.6	9.9	45.51	100	140	Peak
5200	91.32	92.33	/	/	34.6	9.9	45.51	100	140	Average
5350	53.55	54.61	74	-20.45	34.6	9.85	45.51	100	140	Peak
5350	47.13	48.19	54	-6.87	34.6	9.85	45.51	100	140	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.33	56.4	74	-18.67	34.52	9.92	45.51	100	290	Peak
5150	48.53	49.6	54	-5.47	34.52	9.92	45.51	100	290	Average
5240	103.11	104.14	/	/	34.59	9.89	45.51	100	290	Peak
5240	95.14	96.17	/	/	34.59	9.89	45.51	100	290	Average
5350	54.47	55.45	74	-19.53	34.68	9.85	45.51	100	290	Peak
5350	47.13	48.11	54	-6.87	34.68	9.85	45.51	100	290	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.92	56.91	74	-18.08	34.6	9.92	45.51	100	140	Peak
5150	48.8	49.79	54	-5.2	34.6	9.92	45.51	100	140	Average
5240	98.82	99.84	/	/	34.6	9.89	45.51	100	140	Peak
5240	90.85	91.87	/	/	34.6	9.89	45.51	100	140	Average
5350	55.07	56.13	74	-18.93	34.6	9.85	45.51	100	140	Peak
5350	47.27	48.33	54	-6.73	34.6	9.85	45.51	100	140	Average

REMARKS:

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



802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.7	56.77	74	-18.3	34.52	9.92	45.51	100	290	Peak
5150	50.8	51.87	54	-3.2	34.52	9.92	45.51	100	290	Average
5190	97.41	98.46	/	/	34.55	9.91	45.51	100	290	Peak
5190	90.34	91.39	/	/	34.55	9.91	45.51	100	290	Average
5350	54.91	55.89	74	-19.09	34.68	9.85	45.51	100	290	Peak
5350	47.48	48.46	54	-6.52	34.68	9.85	45.51	100	290	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.01	58	74	-16.99	34.6	9.92	45.51	100	140	Peak
5150	49.26	50.25	54	-4.74	34.6	9.92	45.51	100	140	Average
5190	93.1	94.1	/	/	34.6	9.91	45.51	100	140	Peak
5190	86.31	87.31	/	/	34.6	9.91	45.51	100	140	Average
5350	53.57	54.63	74	-20.43	34.6	9.85	45.51	100	140	Peak
5350	47.08	48.14	54	-6.92	34.6	9.85	45.51	100	140	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.8	56.87	74	-18.2	34.52	9.92	45.51	100	290	Peak
5150	48.99	50.06	54	-5.01	34.52	9.92	45.51	100	290	Average
5230	98.05	99.09	/	/	34.58	9.89	45.51	100	290	Peak
5230	90.99	92.03	/	/	34.58	9.89	45.51	100	290	Average
5350	53.08	54.06	74	-20.92	34.68	9.85	45.51	100	290	Peak
5350	47.31	48.29	54	-6.69	34.68	9.85	45.51	100	290	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.57	56.56	74	-18.43	34.6	9.92	45.51	100	140	Peak
5150	48.63	49.62	54	-5.37	34.6	9.92	45.51	100	140	Average
5230	94.33	95.35	/	/	34.6	9.89	45.51	100	140	Peak
5230	87.36	88.38	/	/	34.6	9.89	45.51	100	140	Average
5350	54.57	55.63	74	-19.43	34.6	9.85	45.51	100	140	Peak
5350	47.57	48.63	54	-6.43	34.6	9.85	45.51	100	140	Average

REMARKS:

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



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	58.6	59.67	74	-15.4	34.52	9.92	45.51	100	305	Peak
5150	50.58	51.65	54	-3.42	34.52	9.92	45.51	100	305	Average
5180	104.07	105.13	/	/	34.54	9.91	45.51	100	305	Peak
5180	96.22	97.28	/	/	34.54	9.91	45.51	100	305	Average
5350	54.12	55.1	74	-19.88	34.68	9.85	45.51	100	305	Peak
5350	47.37	48.35	54	-6.63	34.68	9.85	45.51	100	305	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.79	56.78	74	-18.21	34.6	9.92	45.51	100	142	Peak
5150	49.47	50.46	54	-4.53	34.6	9.92	45.51	100	142	Average
5180	99.79	100.79	/	/	34.6	9.91	45.51	100	142	Peak
5180	90.72	91.72	/	/	34.6	9.91	45.51	100	142	Average
5350	53.68	54.74	74	-20.32	34.6	9.85	45.51	100	142	Peak
5350	47.3	48.36	54	-6.7	34.6	9.85	45.51	100	142	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	55.98	57.05	74	-18.02	34.52	9.92	45.51	100	305	Peak
5150	49.35	50.42	54	-4.65	34.52	9.92	45.51	100	305	Average
5200	103.86	104.91	/	/	34.56	9.9	45.51	100	305	Peak
5200	95.87	96.92	/	/	34.56	9.9	45.51	100	305	Average
5350	53.15	54.13	74	-20.85	34.68	9.85	45.51	100	305	Peak
5350	47.63	48.61	54	-6.37	34.68	9.85	45.51	100	305	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.52	57.51	74	-17.48	34.6	9.92	45.51	100	142	Peak
5150	49.13	50.12	54	-4.87	34.6	9.92	45.51	100	142	Average
5200	99.03	100.04	/	/	34.6	9.9	45.51	100	142	Peak
5200	90.64	91.65	/	/	34.6	9.9	45.51	100	142	Average
5350	54.28	55.34	74	-19.72	34.6	9.85	45.51	100	142	Peak
5350	47.53	48.59	54	-6.47	34.6	9.85	45.51	100	142	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	54.99	56.06	74	-19.01	34.52	9.92	45.51	100	305	Peak
5150	48.85	49.92	54	-5.15	34.52	9.92	45.51	100	305	Average
5240	103.76	104.79	/	/	34.59	9.89	45.51	100	305	Peak
5240	95.02	96.05	/	/	34.59	9.89	45.51	100	305	Average
5350	54.99	55.97	74	-19.01	34.68	9.85	45.51	100	305	Peak
5350	47.49	48.47	54	-6.51	34.68	9.85	45.51	100	305	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.85	57.84	74	-17.15	34.6	9.92	45.51	100	142	Peak
5150	49.01	50	54	-4.99	34.6	9.92	45.51	100	142	Average
5240	97.45	98.47	/	/	34.6	9.89	45.51	100	142	Peak
5240	89.22	90.24	/	/	34.6	9.89	45.51	100	142	Average
5350	53.16	54.22	74	-20.84	34.6	9.85	45.51	100	142	Peak
5350	47.32	48.38	54	-6.68	34.6	9.85	45.51	100	142	Average

REMARKS:

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



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	55.85	56.92	74	-18.15	34.52	9.92	45.51	100	305	Peak
5150	50.83	51.9	54	-3.17	34.52	9.92	45.51	100	305	Average
5190	98.18	99.23	/	/	34.55	9.91	45.51	100	305	Peak
5190	91.2	92.25	/	/	34.55	9.91	45.51	100	305	Average
5350	55.66	56.64	74	-18.34	34.68	9.85	45.51	100	305	Peak
5350	47.46	48.44	54	-6.54	34.68	9.85	45.51	100	305	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.83	58.82	74	-16.17	34.6	9.92	45.51	100	142	Peak
5150	49.74	50.73	54	-4.26	34.6	9.92	45.51	100	142	Average
5190	92.11	93.11	/	/	34.6	9.91	45.51	100	142	Peak
5190	85.5	86.5	/	/	34.6	9.91	45.51	100	142	Average
5350	53.5	54.56	74	-20.5	34.6	9.85	45.51	100	142	Peak
5350	47.21	48.27	54	-6.79	34.6	9.85	45.51	100	142	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.69	55.76	74	-19.31	34.52	9.92	45.51	100	305	Peak
5150	49.14	50.21	54	-4.86	34.52	9.92	45.51	100	305	Average
5230	97.95	98.99	/	/	34.58	9.89	45.51	100	305	Peak
5230	91.19	92.23	/	/	34.58	9.89	45.51	100	305	Average
5350	53.22	54.2	74	-20.78	34.68	9.85	45.51	100	305	Peak
5350	47.09	48.07	54	-6.91	34.68	9.85	45.51	100	305	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.16	56.15	74	-18.84	34.6	9.92	45.51	100	142	Peak
5150	49.29	50.28	54	-4.71	34.6	9.92	45.51	100	142	Average
5230	91.75	92.77	/	/	34.6	9.89	45.51	100	142	Peak
5230	85.34	86.36	/	/	34.6	9.89	45.51	100	142	Average
5350	54.47	55.53	74	-19.53	34.6	9.85	45.51	100	142	Peak
5350	47.35	48.41	54	-6.65	34.6	9.85	45.51	100	142	Average

REMARKS:

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



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.88	57.95	74	-17.12	34.52	9.92	45.51	100	240	Peak
5150	50.85	51.92	54	-3.15	34.52	9.92	45.51	100	240	Average
5210	92.25	93.29	/	/	34.57	9.9	45.51	100	240	Peak
5210	84.75	85.79	/	/	34.57	9.9	45.51	100	240	Average
5350	53.26	54.24	74	-20.74	34.68	9.85	45.51	100	240	Peak
5350	47.82	48.8	54	-6.18	34.68	9.85	45.51	100	240	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	53.96	54.95	74	-20.04	34.6	9.92	45.51	100	140	Peak
5150	49.63	50.62	54	-4.37	34.6	9.92	45.51	100	140	Average
5210	86.09	87.1	/	/	34.6	9.9	45.51	100	140	Peak
5210	78.72	79.73	/	/	34.6	9.9	45.51	100	140	Average
5350	52.95	54.01	74	-21.05	34.6	9.85	45.51	100	140	Peak
5350	47.2	48.26	54	-6.8	34.6	9.85	45.51	100	140	Average

REMARKS:

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



802.11ac (80MHz)

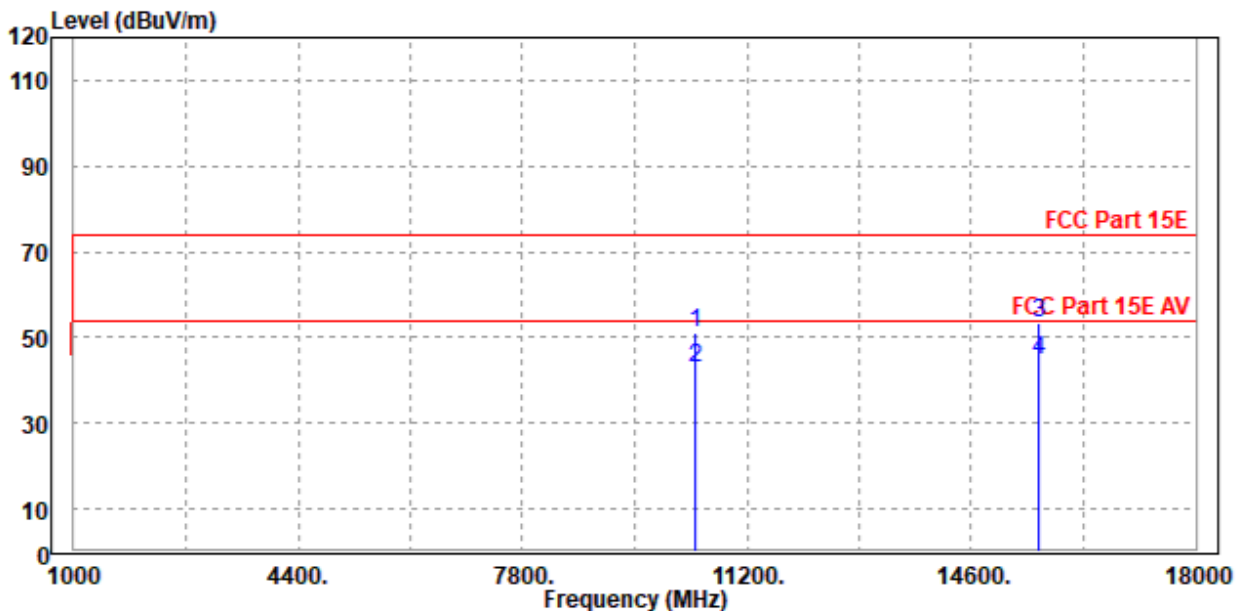
NOTE : The 18G~40GHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

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

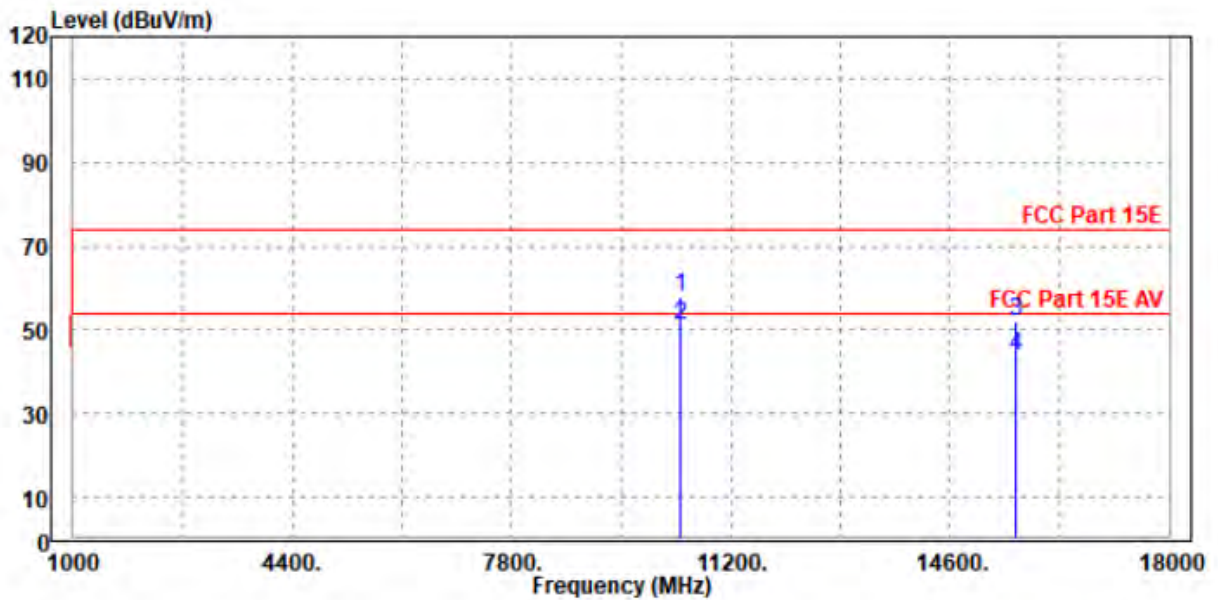
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10418.000	51.28	44.38	74.00	-22.72	6.90	Peak	Horizontal
2	10418.000	42.76	35.86	54.00	-11.24	6.90	Average	Horizontal
3	PK15630.000	53.25	40.15	74.00	-20.75	13.10	Peak	Horizontal
4	PP15630.000	44.68	31.58	54.00	-9.32	13.10	Average	Horizontal





ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

	Freq	Read Level	Limit Level	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m	
1	PK10418.000	57.83	49.71	74.00	-16.17	8.12	Peak Vertical
2	PP10418.000	50.95	42.83	54.00	-3.05	8.12	Average Vertical
3	15630.000	52.09	40.08	74.00	-21.91	12.01	Peak Vertical
4	15630.000	43.84	31.83	54.00	-10.16	12.01	Average Vertical



REMARKS:

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



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	54.37	55.44	74	-19.63	34.52	9.92	45.51	100	273	Peak
5150	49.22	50.29	54	-4.78	34.52	9.92	45.51	100	273	Average
5260	103.45	104.47	/	/	34.61	9.88	45.51	100	273	Peak
5260	96.34	97.36	/	/	34.61	9.88	45.51	100	273	Average
5350	54.88	55.86	74	-19.12	34.68	9.85	45.51	100	273	Peak
5350	47.59	48.57	54	-6.41	34.68	9.85	45.51	100	273	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.67	56.66	74	-18.33	34.6	9.92	45.51	100	175	Peak
5150	48.77	49.76	54	-5.23	34.6	9.92	45.51	100	175	Average
5260	96.9	97.93	/	/	34.6	9.88	45.51	100	175	Peak
5260	89.98	91.01	/	/	34.6	9.88	45.51	100	175	Average
5350	54.35	55.41	74	-19.65	34.6	9.85	45.51	100	175	Peak
5350	47.84	48.9	54	-6.16	34.6	9.85	45.51	100	175	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	54.25	55.32	74	-19.75	34.52	9.92	45.51	100	273	Peak
5150	48.77	49.84	54	-5.23	34.52	9.92	45.51	100	273	Average
5300	102.8	103.8	/	/	34.64	9.87	45.51	100	273	Peak
5300	95.95	96.95	/	/	34.64	9.87	45.51	100	273	Average
5350	54.52	55.5	74	-19.48	34.68	9.85	45.51	100	273	Peak
5350	47.58	48.56	54	-6.42	34.68	9.85	45.51	100	273	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.85	55.84	74	-19.15	34.6	9.92	45.51	100	140	Peak
5150	48.66	49.65	54	-5.34	34.6	9.92	45.51	100	140	Average
5300	95.68	96.72	/	/	34.6	9.87	45.51	100	140	Peak
5300	88.65	89.69	/	/	34.6	9.87	45.51	100	140	Average
5350	56.01	57.07	74	-17.99	34.6	9.85	45.51	100	140	Peak
5350	47.52	48.58	54	-6.48	34.6	9.85	45.51	100	140	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.15	55.22	74	-19.85	34.52	9.92	45.51	100	273	Peak
5150	48.8	49.87	54	-5.2	34.52	9.92	45.51	100	273	Average
5320	102.41	103.4	/	/	34.66	9.86	45.51	100	273	Peak
5320	95.42	96.41	/	/	34.66	9.86	45.51	100	273	Average
5350	57.03	58.01	74	-16.97	34.68	9.85	45.51	100	273	Peak
5350	49.42	50.4	54	-4.58	34.68	9.85	45.51	100	273	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.37	55.36	74	-19.63	34.6	9.92	45.51	100	145	Peak
5150	48.97	49.96	54	-5.03	34.6	9.92	45.51	100	145	Average
5320	95.14	96.19	/	/	34.6	9.86	45.51	100	145	Peak
5320	88.1	89.15	/	/	34.6	9.86	45.51	100	145	Average
5350	53.73	54.79	74	-20.27	34.6	9.85	45.51	100	145	Peak
5350	47.8	48.86	54	-6.2	34.6	9.85	45.51	100	145	Average

REMARKS:

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



802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.42	55.49	74	-19.58	34.52	9.92	45.51	100	273	Peak
5150	48.91	49.98	54	-5.09	34.52	9.92	45.51	100	273	Average
5260	103.19	104.21	/	/	34.61	9.88	45.51	100	273	Peak
5260	96.08	97.1	/	/	34.61	9.88	45.51	100	273	Average
5350	54.56	55.54	74	-19.44	34.68	9.85	45.51	100	273	Peak
5350	47.48	48.46	54	-6.52	34.68	9.85	45.51	100	273	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.7	55.69	74	-19.3	34.6	9.92	45.51	100	145	Peak
5150	49.02	50.01	54	-4.98	34.6	9.92	45.51	100	145	Average
5260	97.01	98.04	/	/	34.6	9.88	45.51	100	145	Peak
5260	88.86	89.89	/	/	34.6	9.88	45.51	100	145	Average
5350	54.69	55.75	74	-19.31	34.6	9.85	45.51	100	145	Peak
5350	47.24	48.3	54	-6.76	34.6	9.85	45.51	100	145	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.31	56.38	74	-18.69	34.52	9.92	45.51	100	273	Peak
5150	48.8	49.87	54	-5.2	34.52	9.92	45.51	100	273	Average
5300	104	105	/	/	34.64	9.87	45.51	100	273	Peak
5300	96	97	/	/	34.64	9.87	45.51	100	273	Average
5350	54.71	55.69	74	-19.29	34.68	9.85	45.51	100	273	Peak
5350	48.07	49.05	54	-5.93	34.68	9.85	45.51	100	273	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.21	57.2	74	-17.79	34.6	9.92	45.51	100	145	Peak
5150	48.9	49.89	54	-5.1	34.6	9.92	45.51	100	145	Average
5300	95.77	96.81	/	/	34.6	9.87	45.51	100	145	Peak
5300	88.23	89.27	/	/	34.6	9.87	45.51	100	145	Average
5350	53.98	55.04	74	-20.02	34.6	9.85	45.51	100	145	Peak
5350	47.26	48.32	54	-6.74	34.6	9.85	45.51	100	145	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.47	55.54	74	-19.53	34.52	9.92	45.51	100	273	Peak
5150	48.98	50.05	54	-5.02	34.52	9.92	45.51	100	273	Average
5320	103.42	104.41	/	/	34.66	9.86	45.51	100	273	Peak
5320	95.28	96.27	/	/	34.66	9.86	45.51	100	273	Average
5350	57.85	58.83	74	-16.15	34.68	9.85	45.51	100	273	Peak
5350	49.86	50.84	54	-4.14	34.68	9.85	45.51	100	273	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.6	55.59	74	-19.4	34.6	9.92	45.51	100	145	Peak
5150	49.23	50.22	54	-4.77	34.6	9.92	45.51	100	145	Average
5320	96.13	97.18	/	/	34.6	9.86	45.51	100	145	Peak
5320	88.23	89.28	/	/	34.6	9.86	45.51	100	145	Average
5350	53.19	54.25	74	-20.81	34.6	9.85	45.51	100	145	Peak
5350	47.58	48.64	54	-6.42	34.6	9.85	45.51	100	145	Average

REMARKS:

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



802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.21	55.28	74	-19.79	34.52	9.92	45.51	200	250	Peak
5150	49.45	50.52	54	-4.55	34.52	9.92	45.51	200	250	Average
5270	99.39	100.4	/	/	34.62	9.88	45.51	200	250	Peak
5270	92.67	93.68	/	/	34.62	9.88	45.51	200	250	Average
5350	53.81	54.79	74	-20.19	34.68	9.85	45.51	200	250	Peak
5350	47.32	48.3	54	-6.68	34.68	9.85	45.51	200	250	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.62	55.61	74	-19.38	34.6	9.92	45.51	100	140	Peak
5150	50.14	51.13	54	-3.86	34.6	9.92	45.51	100	140	Average
5270	92.76	93.79	/	/	34.6	9.88	45.51	100	140	Peak
5270	85.12	86.15	/	/	34.6	9.88	45.51	100	140	Average
5350	53.62	54.68	74	-20.38	34.6	9.85	45.51	100	140	Peak
5350	46.99	48.05	54	-7.01	34.6	9.85	45.51	100	140	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	51.28	52.37	74	-22.72	34.26	11.17	46.52	100	265	Peak
5150	46.23	47.32	54	-7.77	34.26	11.17	46.52	100	265	Average
5310	97.82	98.72	/	/	34.32	11.35	46.57	100	265	Peak
5310	91.32	92.22	/	/	34.32	11.35	46.57	100	265	Average
5350	60.21	61.06	74	-13.79	34.34	11.39	46.58	100	265	Peak
5350	50.95	51.8	54	-3.05	34.34	11.39	46.58	100	265	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	51.41	52.34	74	-22.59	34.42	11.17	46.52	100	50	Peak
5150	46.29	47.22	54	-7.71	34.42	11.17	46.52	100	50	Average
5310	89.89	90.56	/	/	34.55	11.35	46.57	100	50	Peak
5310	82.53	83.2	/	/	34.55	11.35	46.57	100	50	Average
5350	52	52.61	74	-22	34.58	11.39	46.58	100	50	Peak
5350	47.04	47.65	54	-6.96	34.58	11.39	46.58	100	50	Average

REMARKS:

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



802.11ac (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.7	55.77	74	-19.3	34.52	9.92	45.51	200	250	Peak
5150	49.73	50.8	54	-4.27	34.52	9.92	45.51	200	250	Average
5260	103.76	104.78	/	/	34.61	9.88	45.51	200	250	Peak
5260	95.36	96.38	/	/	34.61	9.88	45.51	200	250	Average
5350	55.73	56.71	74	-18.27	34.68	9.85	45.51	200	250	Peak
5350	47.74	48.72	54	-6.26	34.68	9.85	45.51	200	250	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.59	56.58	74	-18.41	34.6	9.92	45.51	100	140	Peak
5150	49.54	50.53	54	-4.46	34.6	9.92	45.51	100	140	Average
5260	95.88	96.91	/	/	34.6	9.88	45.51	100	140	Peak
5260	87.16	88.19	/	/	34.6	9.88	45.51	100	140	Average
5350	52.91	53.97	74	-21.09	34.6	9.85	45.51	100	140	Peak
5350	47.28	48.34	54	-6.72	34.6	9.85	45.51	100	140	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.17	57.24	74	-17.83	34.52	9.92	45.51	200	250	Peak
5150	49.33	50.4	54	-4.67	34.52	9.92	45.51	200	250	Average
5300	103.31	104.31	/	/	34.64	9.87	45.51	200	250	Peak
5300	94.87	95.87	/	/	34.64	9.87	45.51	200	250	Average
5350	54.92	55.9	74	-19.08	34.68	9.85	45.51	200	250	Peak
5350	47.96	48.94	54	-6.04	34.68	9.85	45.51	200	250	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.45	57.44	74	-17.55	34.6	9.92	45.51	100	140	Peak
5150	50	50.99	54	-4	34.6	9.92	45.51	100	140	Average
5300	96.09	97.13	/	/	34.6	9.87	45.51	100	140	Peak
5300	86.45	87.49	/	/	34.6	9.87	45.51	100	140	Average
5350	53.33	54.39	74	-20.67	34.6	9.85	45.51	100	140	Peak
5350	48.8	49.86	54	-5.2	34.6	9.85	45.51	100	140	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.25	56.32	74	-18.75	34.52	9.92	45.51	200	260	Peak
5150	49.81	50.88	54	-4.19	34.52	9.92	45.51	200	260	Average
5320	103.49	104.48	/	/	34.66	9.86	45.51	200	260	Peak
5320	95.4	96.39	/	/	34.66	9.86	45.51	200	260	Average
5350	54.92	55.9	74	-19.08	34.68	9.85	45.51	200	260	Peak
5350	49.31	50.29	54	-4.69	34.68	9.85	45.51	200	260	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.13	58.12	74	-16.87	34.6	9.92	45.51	100	145	Peak
5150	49.69	50.68	54	-4.31	34.6	9.92	45.51	100	145	Average
5320	95.79	96.84	/	/	34.6	9.86	45.51	100	145	Peak
5320	87.52	88.57	/	/	34.6	9.86	45.51	100	145	Average
5350	53.63	54.69	74	-20.37	34.6	9.85	45.51	100	145	Peak
5350	47.28	48.34	54	-6.72	34.6	9.85	45.51	100	145	Average

REMARKS:

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



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	54.49	55.56	74	-19.51	34.52	9.92	45.51	200	260	Peak
5150	49.13	50.2	54	-4.87	34.52	9.92	45.51	200	260	Average
5270	99.65	100.66	/	/	34.62	9.88	45.51	200	260	Peak
5270	92.19	93.2	/	/	34.62	9.88	45.51	200	260	Average
5350	54.06	55.04	74	-19.94	34.68	9.85	45.51	200	260	Peak
5350	47.99	48.97	54	-6.01	34.68	9.85	45.51	200	260	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.49	57.48	74	-17.51	34.6	9.92	45.51	100	145	Peak
5150	50.32	51.31	54	-3.68	34.6	9.92	45.51	100	145	Average
5270	92.24	93.27	/	/	34.6	9.88	45.51	100	145	Peak
5270	84.14	85.17	/	/	34.6	9.88	45.51	100	145	Average
5350	53.85	54.91	74	-20.15	34.6	9.85	45.51	100	145	Peak
5350	48.69	49.75	54	-5.31	34.6	9.85	45.51	100	145	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.97	57.04	74	-18.03	34.52	9.92	45.51	200	260	Peak
5150	49.78	50.85	54	-4.22	34.52	9.92	45.51	200	260	Average
5310	98.66	99.66	/	/	34.65	9.86	45.51	200	260	Peak
5310	91.51	92.51	/	/	34.65	9.86	45.51	200	260	Average
5350	56.78	57.76	74	-17.22	34.68	9.85	45.51	200	260	Peak
5350	50.36	51.34	54	-3.64	34.68	9.85	45.51	200	260	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.58	56.57	74	-18.42	34.6	9.92	45.51	100	145	Peak
5150	49.89	50.88	54	-4.11	34.6	9.92	45.51	100	145	Average
5310	91.79	92.84	/	/	34.6	9.86	45.51	100	145	Peak
5310	85.47	86.52	/	/	34.6	9.86	45.51	100	145	Average
5350	54.04	55.1	74	-19.96	34.6	9.85	45.51	100	145	Peak
5350	48.35	49.41	54	-5.65	34.6	9.85	45.51	100	145	Average

REMARKS:

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



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	53.8	54.87	74	-20.2	34.52	9.92	45.51	200	260	Peak
5150	50.49	51.56	54	-3.51	34.52	9.92	45.51	200	260	Average
5290	94.1	95.11	/	/	34.63	9.87	45.51	200	260	Peak
5290	87.43	88.44	/	/	34.63	9.87	45.51	200	260	Average
5350	53.69	54.67	74	-20.31	34.68	9.85	45.51	200	260	Peak
5350	49.03	50.01	54	-4.97	34.68	9.85	45.51	200	260	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	54.63	55.62	74	-19.37	34.6	9.92	45.51	100	145	Peak
5150	49.65	50.64	54	-4.35	34.6	9.92	45.51	100	145	Average
5290	86.42	87.46	/	/	34.6	9.87	45.51	100	145	Peak
5290	79.18	80.22	/	/	34.6	9.87	45.51	100	145	Average
5350	56.78	57.84	74	-17.22	34.6	9.85	45.51	100	145	Peak
5350	47.69	48.75	54	-6.31	34.6	9.85	45.51	100	145	Average

REMARKS:

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