



Test Report No.: W7L-P22060025RF03



FCC TEST REPORT

(Part 15, Subpart E)

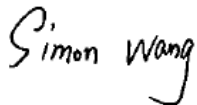
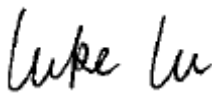
Applicant:	PAX Technology Limited
Address:	Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong China

Manufacturer or Supplier:	PAX Computer Technology (Shenzhen) Co., Ltd.
Address:	4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Product:	Integrated Smart Terminal
Brand Name:	PAX
Model Name:	E700
FCC ID:	V5PE700GM2
Date of tests:	Jun. 24, 2022 ~ Jul. 18, 2022

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: Jul. 18, 2022	Date: Jul. 18, 2022

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BUREAU
VERITAS

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22060025RF03	Original release	Jul. 18, 2022



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 data of 802.11a & 802.11n/ac (20/40) & 802.11ac 80 please refer to the appendix A/B.
2. Only the worse data were 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	$\pm 2.70\text{dB}$
Radiated emissions (30MHz~1GMHz)	$\pm 4.98\text{dB}$
Radiated emissions (1GMHz ~6GMHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GMHz ~18GMHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GMHz ~40GMHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Power Spectral Density	$\pm 0.85\text{ dB}$

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	Integrated Smart Terminal
BRAND NAME	PAX
MODEL NAME	E700
NOMINAL VOLTAGE	24Vdc (adapter) 3.63Vdc (Li-ion, battery) 3.6 Vdc (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. 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) 3 for 802.11n/ac (40MHz) 2 for 802.11ac (80MHz)
AVERAGE POWER	27.61mW for 5180 ~ 5240MHz 29.85mW for 5260 ~ 5320MHz 23.33mW for 5500 ~ 5720MHz 13.37mW for 5745 ~ 5825MHz
ANTENNA TYPE	PIFA Antenna
ANTENNA GAIN	2dBi for 5180 ~ 5240MHz 2dBi for 5260 ~ 5320MHz 2dBi for 5500 ~ 5720MHz 2dBi for 5745 ~ 5825MHz
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A



NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one 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	MODEL	SPECIFICATION
Battery1	EVE	A0671-LE	Capacity: 3.63vdc 2550mAh
Battery2	EVE	A0671B	Capacity: 3.6vdc 2550mAh
AC Adapter	HONOTO	ADS-65HI-19A-3 24065E	I/P:100-240Vac, 1.5A O/P: 24Vdc, 2.7A

4. CMD Command was used for the wifi testing,



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

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
138	5690MHz	155	5775 MHz



2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

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

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

NOTE:

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

NOTE: "-" means no effect.

RADIATED EMISSION TEST (BELOW 1GHz):

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ac (40MHz)	5180-5240	38 to 46	38	OFDM	MCS0



RADIATED EMISSION TEST (ABOVE 1GHz):

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

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

POWER LINE CONDUCTED EMISSION TEST:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
A	802.11ac (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 24V By Adapter	Star Le
RE≥1G	23deg. C, 70%RH	DC 24V By Adapter	Star Le
PLC	25deg. C, 52%RH	DC 24V By Adapter	James Fu
APCM	25deg. C, 60%RH	DC 24V by Adapter	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
5GHZ	11a	97.22
	11n20	97.04
	11n40	89.47
	11ac20	97.06
	11ac40	89.74
	11ac80	73.33

Note:

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

2.4 DESCRIPTION OF SUPPORT UNITS

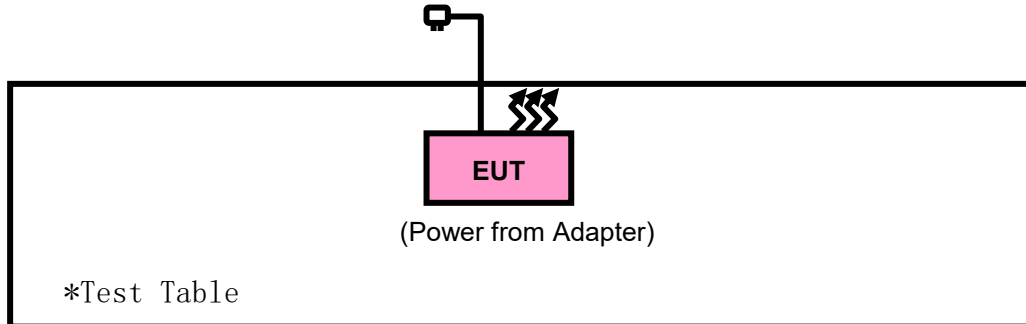
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

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

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



2.4.1 CONFIGURATION OF SYSTEM UNDER TEST



2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

ANSI C63.10-2013

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

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



3 TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

3.1.2 LIMITS OF UNWANTED EMISSION

RESTRICTED BANDS	APPLICABLE TO	LIMIT	
	789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m (dBµV/m)	
	PK : 74	AV : 54	
OUT OF THE RESTRICTED BANDS	APPLICABLE TO	EIRP LIMIT (dBm/MHz)	EQUIVALENT FIELD STRENGTH AT 3m (dBµV/m)
	15.407(b)(1)	PK : -27	PK : 68.2
	15.407(b)(2)		
	15.407(b)(3)		
	15.407(b)(4)	See note 2 (FCC 16-24)	



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

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

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. 25, 21	Aug. 24, 22
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. 18,22	Feb. 17,23
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
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

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.

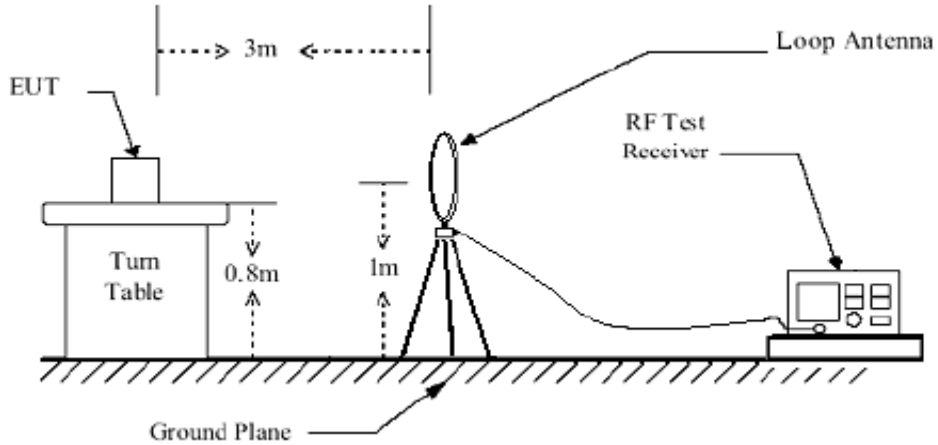
3.1.5 DEVIATION FROM TEST STANDARD

No deviation.

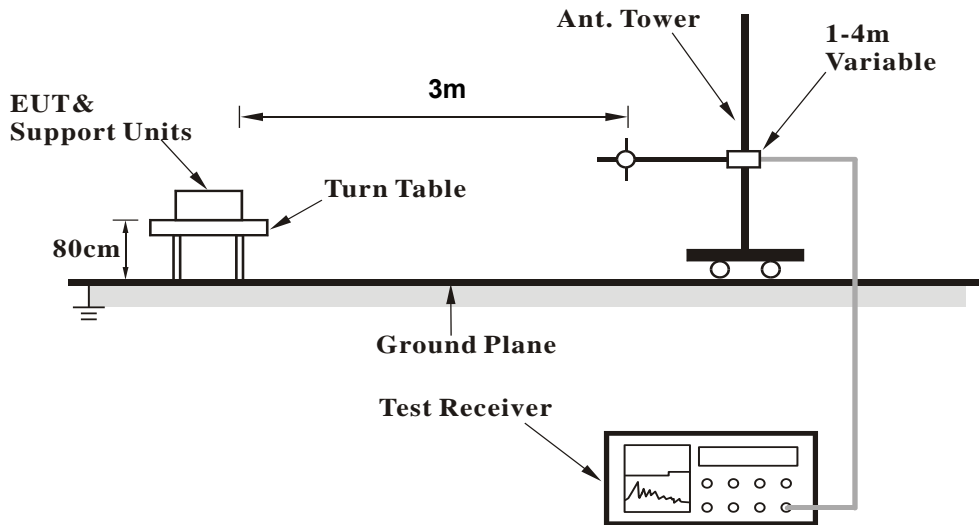


3.1.6 TEST SETUP

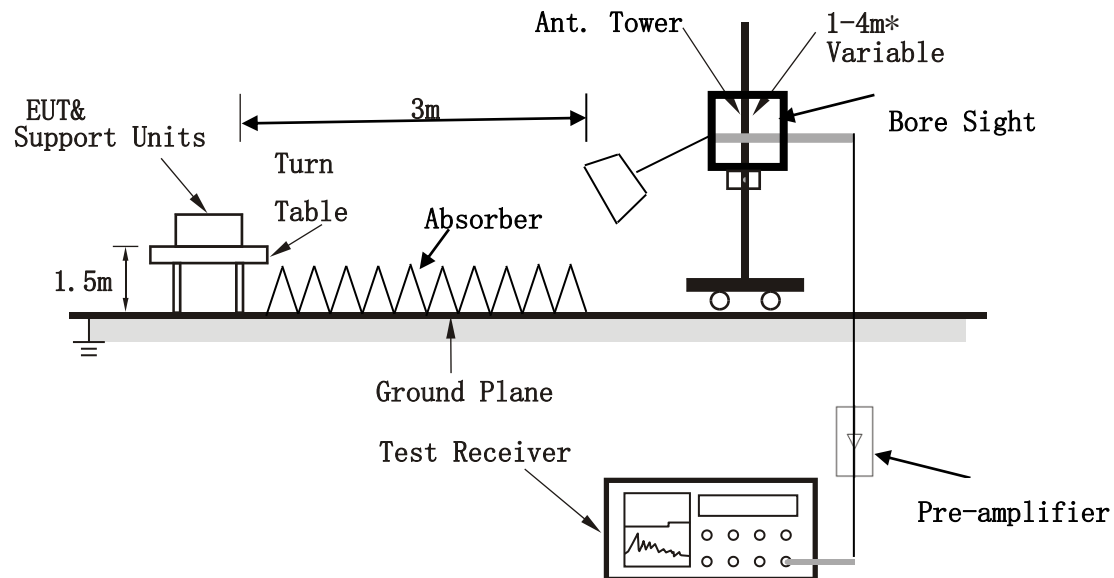
< Frequency Range below 30MHz >



< 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.

BELOW 1GHz WORST-CASE DATA:

30 MHz – 1GHz data:

Band 1

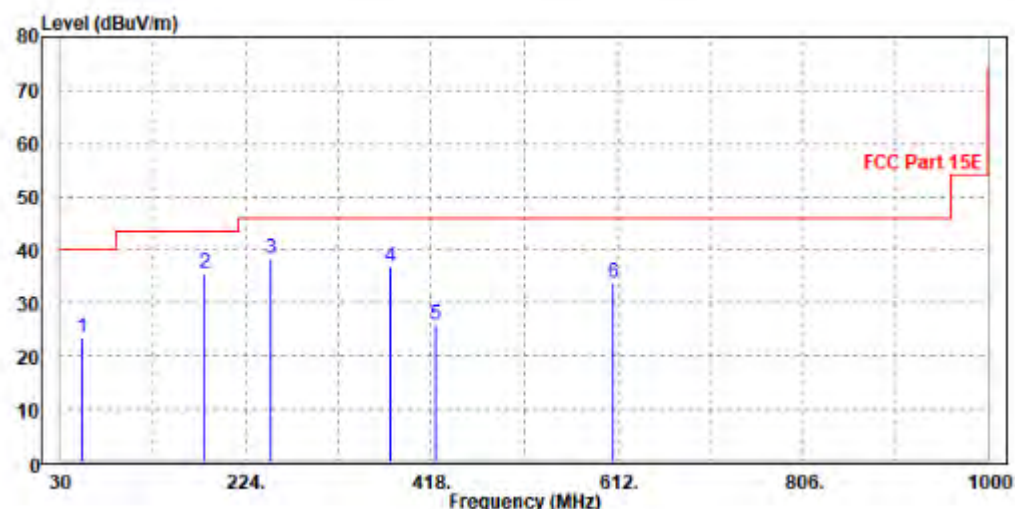
802.11ac (80MHz)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
52.31	23.32	49.93	40	-16.68	9.97	0.41	36.99	100	0	QP
181.32	35.55	59.84	43.5	-7.95	11.39	0.71	36.39	100	0	QP
250.19	38.45	60.39	46	-7.55	13.5	0.83	36.27	100	0	QP
375.32	36.66	56.35	46	-9.34	15.66	1.03	36.38	100	0	QP
422.85	25.87	44.6	46	-20.13	16.63	1.11	36.47	100	0	QP
607.15	33.85	49.52	46	-12.15	19.84	1.37	36.88	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.



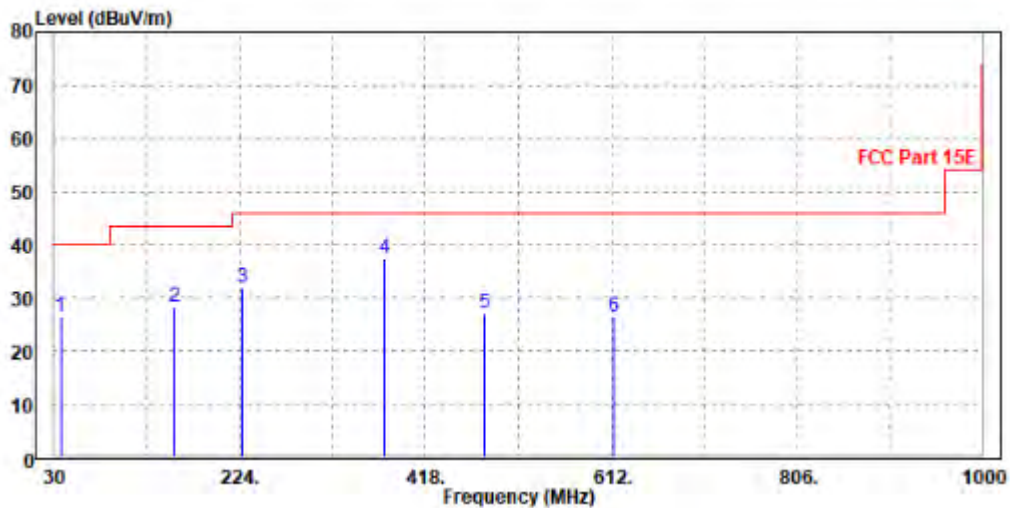


CHANNEL	Channel 42	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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
36.79	26.56	47.72	40	-13.44	15.8	0.34	37.3	100	0	QP
156.1	28.3	53.42	43.5	-15.2	10.74	0.67	36.53	100	0	QP
225.94	31.85	55.27	46	-14.15	12.07	0.79	36.28	100	0	QP
375.32	37.28	56.9	46	-8.72	15.73	1.03	36.38	100	0	QP
480.08	27.17	45.22	46	-18.83	17.34	1.19	36.58	100	0	QP
614.91	26.4	42.17	46	-19.6	19.75	1.38	36.9	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	55.39	56.46	74	-18.61	34.52	9.92	45.51	100	85	Peak
5150	50.54	51.61	54	-3.46	34.52	9.92	45.51	100	85	Average
5180	103.75	104.81	/	/	34.54	9.91	45.51	100	85	Peak
5180	97.25	98.31	/	/	34.54	9.91	45.51	100	85	Average
5350	53.68	54.66	74	-20.32	34.68	9.85	45.51	100	85	Peak
5350	47.39	48.37	54	-6.61	34.68	9.85	45.51	100	85	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	58.56	59.55	74	-15.44	34.6	9.92	45.51	100	90	Peak
5150	50.79	51.78	54	-3.21	34.6	9.92	45.51	100	90	Average
5180	107.38	108.38	/	/	34.6	9.91	45.51	100	90	Peak
5180	101.01	102.01	/	/	34.6	9.91	45.51	100	90	Average
5350	53.32	54.38	74	-20.68	34.6	9.85	45.51	100	90	Peak
5350	47.38	48.44	54	-6.62	34.6	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	56.33	57.4	74	-17.67	34.52	9.92	45.51	190	350	Peak
5150	50.18	51.25	54	-3.82	34.52	9.92	45.51	190	350	Average
5200	107.68	108.73	/	/	34.56	9.9	45.51	190	350	Peak
5200	100.17	101.22	/	/	34.56	9.9	45.51	190	350	Average
5350	54.37	55.35	74	-19.63	34.68	9.85	45.51	190	350	Peak
5350	47.71	48.69	54	-6.29	34.68	9.85	45.51	190	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	55.9	56.89	74	-18.1	34.6	9.92	45.51	100	90	Peak
5150	50.25	51.24	54	-3.75	34.6	9.92	45.51	100	90	Average
5200	109	110.01	/	/	34.6	9.9	45.51	100	90	Peak
5200	101.71	102.72	/	/	34.6	9.9	45.51	100	90	Average
5350	55.21	56.27	74	-18.79	34.6	9.85	45.51	100	90	Peak
5350	47.68	48.74	54	-6.32	34.6	9.85	45.51	100	90	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	55.32	56.39	74	-18.68	34.52	9.92	45.51	190	350	Peak
5150	49.41	50.48	54	-4.59	34.52	9.92	45.51	190	350	Average
5240	106.99	108.02	/	/	34.59	9.89	45.51	190	350	Peak
5240	100.23	101.26	/	/	34.59	9.89	45.51	190	350	Average
5350	54.04	55.02	74	-19.96	34.68	9.85	45.51	190	350	Peak
5350	48.06	49.04	54	-5.94	34.68	9.85	45.51	190	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	56.45	57.44	74	-17.55	34.6	9.92	45.51	100	90	Peak
5150	49.88	50.87	54	-4.12	34.6	9.92	45.51	100	90	Average
5240	109.21	110.23	/	/	34.6	9.89	45.51	100	90	Peak
5240	102.78	103.8	/	/	34.6	9.89	45.51	100	90	Average
5350	54.19	55.25	74	-19.81	34.6	9.85	45.51	100	90	Peak
5350	47.78	48.84	54	-6.22	34.6	9.85	45.51	100	90	Average

REMARKS:

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



802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.9	58.97	74	-16.1	34.52	9.92	45.51	190	350	Peak
5150	50.64	51.71	54	-3.36	34.52	9.92	45.51	190	350	Average
5180	105.14	106.2	/	/	34.54	9.91	45.51	190	350	Peak
5180	98.6	99.66	/	/	34.54	9.91	45.51	190	350	Average
5350	53.98	54.96	74	-20.02	34.68	9.85	45.51	190	350	Peak
5350	48.14	49.12	54	-5.86	34.68	9.85	45.51	190	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	56.18	57.17	74	-17.82	34.6	9.92	45.51	100	90	Peak
5150	50.8	51.79	54	-3.2	34.6	9.92	45.51	100	90	Average
5180	106.4	107.4	/	/	34.6	9.91	45.51	100	90	Peak
5180	99.84	100.84	/	/	34.6	9.91	45.51	100	90	Average
5350	54.88	55.94	74	-19.12	34.6	9.85	45.51	100	90	Peak
5350	47.75	48.81	54	-6.25	34.6	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	55.71	56.78	74	-18.29	34.52	9.92	45.51	190	350	Peak
5150	50.06	51.13	54	-3.94	34.52	9.92	45.51	190	350	Average
5200	104.87	105.92	/	/	34.56	9.9	45.51	190	350	Peak
5200	97.74	98.79	/	/	34.56	9.9	45.51	190	350	Average
5350	54.17	55.15	74	-19.83	34.68	9.85	45.51	190	350	Peak
5350	47.67	48.65	54	-6.33	34.68	9.85	45.51	190	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	55.92	56.91	74	-18.08	34.6	9.92	45.51	100	90	Peak
5150	49.94	50.93	54	-4.06	34.6	9.92	45.51	100	90	Average
5200	106.72	107.73	/	/	34.6	9.9	45.51	100	90	Peak
5200	100.02	101.03	/	/	34.6	9.9	45.51	100	90	Average
5350	54.17	55.23	74	-19.83	34.6	9.85	45.51	100	90	Peak
5350	47.62	48.68	54	-6.38	34.6	9.85	45.51	100	90	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.53	58.6	74	-16.47	34.52	9.92	45.51	190	350	Peak
5150	50.27	51.34	54	-3.73	34.52	9.92	45.51	190	350	Average
5240	104.1	105.13	/	/	34.59	9.89	45.51	190	350	Peak
5240	97.74	98.77	/	/	34.59	9.89	45.51	190	350	Average
5350	55.55	56.53	74	-18.45	34.68	9.85	45.51	190	350	Peak
5350	48.03	49.01	54	-5.97	34.68	9.85	45.51	190	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	55.07	56.06	74	-18.93	34.6	9.92	45.51	100	90	Peak
5150	50.71	51.7	54	-3.29	34.6	9.92	45.51	100	90	Average
5240	106.99	108.01	/	/	34.6	9.89	45.51	100	90	Peak
5240	100.8	101.82	/	/	34.6	9.89	45.51	100	90	Average
5350	55.59	56.65	74	-18.41	34.6	9.85	45.51	100	90	Peak
5350	47.98	49.04	54	-6.02	34.6	9.85	45.51	100	90	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	55.81	56.88	74	-18.19	34.52	9.92	45.51	190	350	Peak
5150	50.71	51.78	54	-3.29	34.52	9.92	45.51	190	350	Average
5190	97.55	98.6	/	/	34.55	9.91	45.51	190	350	Peak
5190	91.41	92.46	/	/	34.55	9.91	45.51	190	350	Average
5350	53.55	54.53	74	-20.45	34.68	9.85	45.51	190	350	Peak
5350	47.75	48.73	54	-6.25	34.68	9.85	45.51	190	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	56.63	57.62	74	-17.37	34.6	9.92	45.51	100	90	Peak
5150	50.66	51.65	54	-3.34	34.6	9.92	45.51	100	90	Average
5190	100.07	101.07	/	/	34.6	9.91	45.51	100	90	Peak
5190	93.58	94.58	/	/	34.6	9.91	45.51	100	90	Average
5350	53.53	54.59	74	-20.47	34.6	9.85	45.51	100	90	Peak
5350	47.42	48.48	54	-6.58	34.6	9.85	45.51	100	90	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	55.01	56.08	74	-18.99	34.52	9.92	45.51	190	350	Peak
5150	49.94	51.01	54	-4.06	34.52	9.92	45.51	190	350	Average
5230	100.17	101.21	/	/	34.58	9.89	45.51	190	350	Peak
5230	94.04	95.08	/	/	34.58	9.89	45.51	190	350	Average
5350	53.13	54.11	74	-20.87	34.68	9.85	45.51	190	350	Peak
5350	47.53	48.51	54	-6.47	34.68	9.85	45.51	190	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	55.02	56.01	74	-18.98	34.6	9.92	45.51	100	90	Peak
5150	50.18	51.17	54	-3.82	34.6	9.92	45.51	100	90	Average
5230	102.5	103.52	/	/	34.6	9.89	45.51	100	90	Peak
5230	97.2	98.22	/	/	34.6	9.89	45.51	100	90	Average
5350	54.79	55.85	74	-19.21	34.6	9.85	45.51	100	90	Peak
5350	48.77	49.83	54	-5.23	34.6	9.85	45.51	100	90	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	57.35	58.42	74	-16.65	34.52	9.92	45.51	190	350	Peak
5150	50.09	51.16	54	-3.91	34.52	9.92	45.51	190	350	Average
5180	102.25	103.31	/	/	34.54	9.91	45.51	190	350	Peak
5180	95.96	97.02	/	/	34.54	9.91	45.51	190	350	Average
5350	54.24	55.22	74	-19.76	34.68	9.85	45.51	190	350	Peak
5350	48.21	49.19	54	-5.79	34.68	9.85	45.51	190	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	56.78	57.77	74	-17.22	34.6	9.92	45.51	100	90	Peak
5150	50.43	51.42	54	-3.57	34.6	9.92	45.51	100	90	Average
5180	104.86	105.86	/	/	34.6	9.91	45.51	100	90	Peak
5180	97.57	98.57	/	/	34.6	9.91	45.51	100	90	Average
5350	53.85	54.91	74	-20.15	34.6	9.85	45.51	100	90	Peak
5350	47.35	48.41	54	-6.65	34.6	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	57.12	58.19	74	-16.88	34.52	9.92	45.51	190	350	Peak
5150	49.96	51.03	54	-4.04	34.52	9.92	45.51	190	350	Average
5200	102.61	103.66	/	/	34.56	9.9	45.51	190	350	Peak
5200	95.49	96.54	/	/	34.56	9.9	45.51	190	350	Average
5350	54.22	55.2	74	-19.78	34.68	9.85	45.51	190	350	Peak
5350	47.9	48.88	54	-6.1	34.68	9.85	45.51	190	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	54.84	55.83	74	-19.16	34.6	9.92	45.51	100	90	Peak
5150	50.52	51.51	54	-3.48	34.6	9.92	45.51	100	90	Average
5200	104.96	105.97	/	/	34.6	9.9	45.51	100	90	Peak
5200	97.47	98.48	/	/	34.6	9.9	45.51	100	90	Average
5350	54.18	55.24	74	-19.82	34.6	9.85	45.51	100	90	Peak
5350	47.7	48.76	54	-6.3	34.6	9.85	45.51	100	90	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	56.17	57.24	74	-17.83	34.52	9.92	45.51	190	350	Peak
5150	49.58	50.65	54	-4.42	34.52	9.92	45.51	190	350	Average
5240	101.96	102.99	/	/	34.59	9.89	45.51	190	350	Peak
5240	95.39	96.42	/	/	34.59	9.89	45.51	190	350	Average
5350	53.09	54.07	74	-20.91	34.68	9.85	45.51	190	350	Peak
5350	48.05	49.03	54	-5.95	34.68	9.85	45.51	190	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	56.66	57.65	74	-17.34	34.6	9.92	45.51	100	90	Peak
5150	49.82	50.81	54	-4.18	34.6	9.92	45.51	100	90	Average
5240	104.45	105.47	/	/	34.6	9.89	45.51	100	90	Peak
5240	98.43	99.45	/	/	34.6	9.89	45.51	100	90	Average
5350	53.81	54.87	74	-20.19	34.6	9.85	45.51	100	90	Peak
5350	47.32	48.38	54	-6.68	34.6	9.85	45.51	100	90	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	55.71	56.78	74	-18.29	34.52	9.92	45.51	190	350	Peak
5150	50.56	51.63	54	-3.44	34.52	9.92	45.51	190	350	Average
5190	97.55	98.6	/	/	34.55	9.91	45.51	190	350	Peak
5190	91.73	92.78	/	/	34.55	9.91	45.51	190	350	Average
5350	53.69	54.67	74	-20.31	34.68	9.85	45.51	190	350	Peak
5350	47.91	48.89	54	-6.09	34.68	9.85	45.51	190	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	55.81	56.8	74	-18.19	34.6	9.92	45.51	100	90	Peak
5150	50.84	51.83	54	-3.16	34.6	9.92	45.51	100	90	Average
5190	99.4	100.4	/	/	34.6	9.91	45.51	100	90	Peak
5190	93.76	94.76	/	/	34.6	9.91	45.51	100	90	Average
5350	52.74	53.8	74	-21.26	34.6	9.85	45.51	100	90	Peak
5350	47.67	48.73	54	-6.33	34.6	9.85	45.51	100	90	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	54.9	55.97	74	-19.1	34.52	9.92	45.51	190	350	Peak
5150	49.67	50.74	54	-4.33	34.52	9.92	45.51	190	350	Average
5230	97.09	98.13	/	/	34.58	9.89	45.51	190	350	Peak
5230	92	93.04	/	/	34.58	9.89	45.51	190	350	Average
5350	53.37	54.35	74	-20.63	34.68	9.85	45.51	190	350	Peak
5350	47.51	48.49	54	-6.49	34.68	9.85	45.51	190	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	56.38	57.37	74	-17.62	34.6	9.92	45.51	100	90	Peak
5150	50.13	51.12	54	-3.87	34.6	9.92	45.51	100	90	Average
5230	100.63	101.65	/	/	34.6	9.89	45.51	100	90	Peak
5230	95.54	96.56	/	/	34.6	9.89	45.51	100	90	Average
5350	54.74	55.8	74	-19.26	34.6	9.85	45.51	100	90	Peak
5350	47.66	48.72	54	-6.34	34.6	9.85	45.51	100	90	Average

REMARKS:

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



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	57.39	58.46	74	-16.61	34.52	9.92	45.51	190	350	Peak
5150	50.56	51.63	54	-3.44	34.52	9.92	45.51	190	350	Average
5210	92.1	93.14	/	/	34.57	9.9	45.51	190	350	Peak
5210	86.59	87.63	/	/	34.57	9.9	45.51	190	350	Average
5350	53.56	54.54	74	-20.44	34.68	9.85	45.51	190	350	Peak
5350	49.78	50.76	54	-4.22	34.68	9.85	45.51	190	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	57.08	58.07	74	-16.92	34.6	9.92	45.51	100	90	Peak
5150	50.93	51.92	54	-3.07	34.6	9.92	45.51	100	90	Average
5210	93.86	94.87	/	/	34.6	9.9	45.51	100	90	Peak
5210	89.57	90.58	/	/	34.6	9.9	45.51	100	90	Average
5350	52.91	53.97	74	-21.09	34.6	9.85	45.51	100	90	Peak
5350	48.73	49.79	54	-5.27	34.6	9.85	45.51	100	90	Average

REMARKS:

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



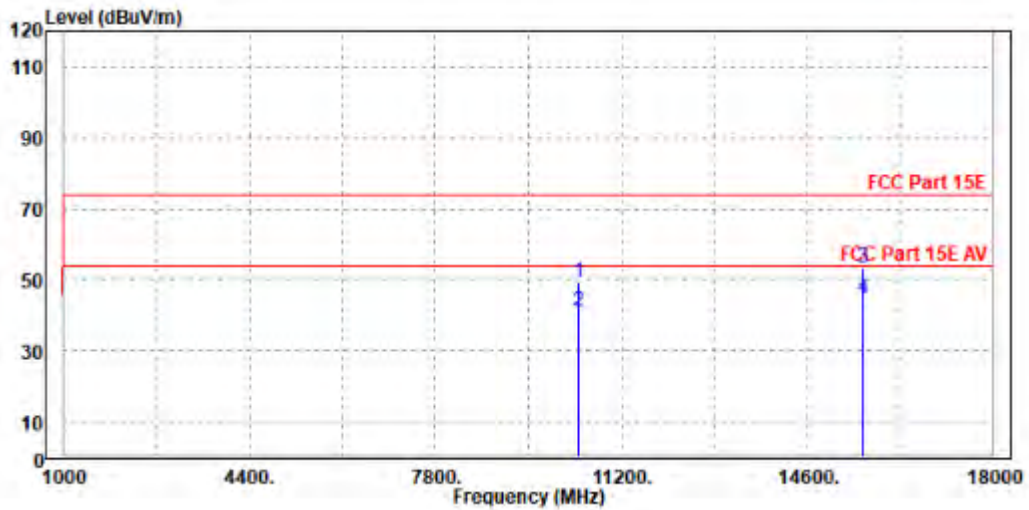
Worst case harmonic:

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

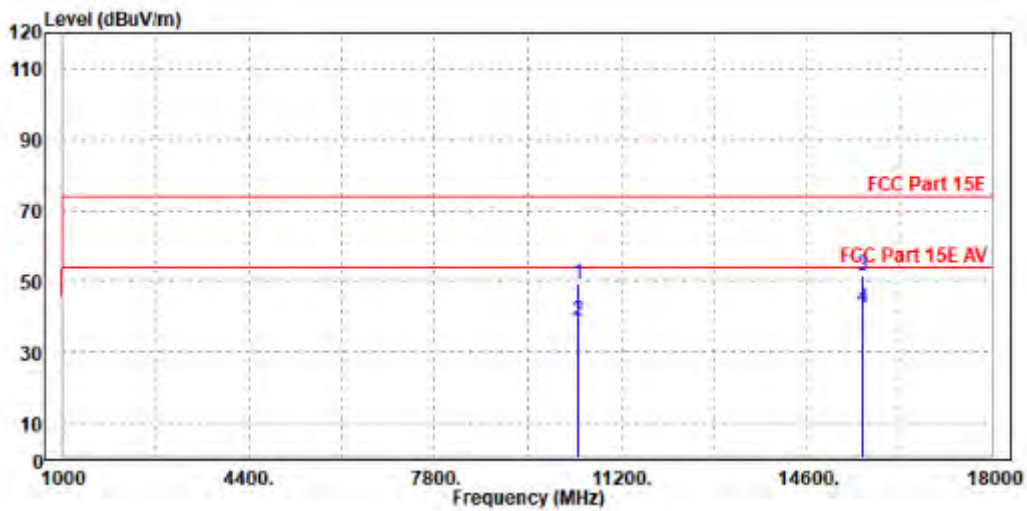
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10420.000	49.09	42.19	74.00	-24.91	6.90	Peak	Horizontal
2	10420.000	41.16	34.26	54.00	-12.84	6.90	Average	Horizontal
3	PK15630.000	53.51	40.41	74.00	-20.49	13.10	Peak	Horizontal
4	PP15630.000	44.92	31.82	54.00	-9.08	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	49.08	40.96	74.00	-24.92	8.12	Peak	Vertical
2	10420.000	38.72	30.60	54.00	-15.28	8.12	Average	Vertical
3	PK15630.000	51.70	39.69	74.00	-22.30	12.01	Peak	Vertical
4	PP15630.000	42.34	30.33	54.00	-11.66	12.01	Average	Vertical



REMARKS:

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



Band 2
802.11a

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	56.12	57.19	74	-17.88	34.52	9.92	45.51	190	350	Peak
5150	49.88	50.95	54	-4.12	34.52	9.92	45.51	190	350	Average
5260	106.56	107.58	/	/	34.61	9.88	45.51	190	350	Peak
5260	99.84	100.86	/	/	34.61	9.88	45.51	190	350	Average
5350	53.43	54.41	74	-20.57	34.68	9.85	45.51	190	350	Peak
5350	47.83	48.81	54	-6.17	34.68	9.85	45.51	190	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	56.18	57.17	74	-17.82	34.6	9.92	45.51	100	90	Peak
5150	49.63	50.62	54	-4.37	34.6	9.92	45.51	100	90	Average
5260	109	110.03	/	/	34.6	9.88	45.51	100	90	Peak
5260	102.34	103.37	/	/	34.6	9.88	45.51	100	90	Average
5350	53.99	55.05	74	-20.01	34.6	9.85	45.51	100	90	Peak
5350	47.69	48.75	54	-6.31	34.6	9.85	45.51	100	90	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	55.32	56.39	74	-18.68	34.52	9.92	45.51	190	350	Peak
5150	49.51	50.58	54	-4.49	34.52	9.92	45.51	190	350	Average
5300	105.08	106.08	/	/	34.64	9.87	45.51	190	350	Peak
5300	98.83	99.83	/	/	34.64	9.87	45.51	190	350	Average
5350	53.77	54.75	74	-20.23	34.68	9.85	45.51	190	350	Peak
5350	47.98	48.96	54	-6.02	34.68	9.85	45.51	190	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	57.35	58.34	74	-16.65	34.6	9.92	45.51	100	90	Peak
5150	49.93	50.92	54	-4.07	34.6	9.92	45.51	100	90	Average
5300	108.35	109.39	/	/	34.6	9.87	45.51	100	90	Peak
5300	101.68	102.72	/	/	34.6	9.87	45.51	100	90	Average
5350	55.38	56.44	74	-18.62	34.6	9.85	45.51	100	90	Peak
5350	48.17	49.23	54	-5.83	34.6	9.85	45.51	100	90	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	54.44	55.51	74	-19.56	34.52	9.92	45.51	190	350	Peak
5150	49.53	50.6	54	-4.47	34.52	9.92	45.51	190	350	Average
5320	104.52	105.51	/	/	34.66	9.86	45.51	190	350	Peak
5320	97.87	98.86	/	/	34.66	9.86	45.51	190	350	Average
5350	54.57	55.55	74	-19.43	34.68	9.85	45.51	190	350	Peak
5350	48.91	49.89	54	-5.09	34.68	9.85	45.51	190	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	54.88	55.87	74	-19.12	34.6	9.92	45.51	100	90	Peak
5150	49.48	50.47	54	-4.52	34.6	9.92	45.51	100	90	Average
5320	107.95	109	/	/	34.6	9.86	45.51	100	90	Peak
5320	101.73	102.78	/	/	34.6	9.86	45.51	100	90	Average
5350	56.85	57.91	74	-17.15	34.6	9.85	45.51	100	90	Peak
5350	50.19	51.25	54	-3.81	34.6	9.85	45.51	100	90	Average

REMARKS:

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



802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.98	57.05	74	-18.02	34.52	9.92	45.51	190	350	Peak
5150	49.33	50.4	54	-4.67	34.52	9.92	45.51	190	350	Average
5260	104.05	105.07	/	/	34.61	9.88	45.51	190	350	Peak
5260	97.75	98.77	/	/	34.61	9.88	45.51	190	350	Average
5350	53.45	54.43	74	-20.55	34.68	9.85	45.51	190	350	Peak
5350	47.68	48.66	54	-6.32	34.68	9.85	45.51	190	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	56.81	57.8	74	-17.19	34.6	9.92	45.51	100	90	Peak
5150	50.04	51.03	54	-3.96	34.6	9.92	45.51	100	90	Average
5260	106.15	107.18	/	/	34.6	9.88	45.51	100	90	Peak
5260	100.47	101.5	/	/	34.6	9.88	45.51	100	90	Average
5350	54.25	55.31	74	-19.75	34.6	9.85	45.51	100	90	Peak
5350	47.7	48.76	54	-6.3	34.6	9.85	45.51	100	90	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	55.29	56.36	74	-18.71	34.52	9.92	45.51	190	350	Peak
5150	49.6	50.67	54	-4.4	34.52	9.92	45.51	190	350	Average
5300	102.66	103.66	/	/	34.64	9.87	45.51	190	350	Peak
5300	96.58	97.58	/	/	34.64	9.87	45.51	190	350	Average
5350	55	55.98	74	-19	34.68	9.85	45.51	190	350	Peak
5350	48.12	49.1	54	-5.88	34.68	9.85	45.51	190	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	54.7	55.69	74	-19.3	34.6	9.92	45.51	100	90	Peak
5150	49.74	50.73	54	-4.26	34.6	9.92	45.51	100	90	Average
5300	105.07	106.11	/	/	34.6	9.87	45.51	100	90	Peak
5300	99.3	100.34	/	/	34.6	9.87	45.51	100	90	Average
5350	53.05	54.11	74	-20.95	34.6	9.85	45.51	100	90	Peak
5350	47.91	48.97	54	-6.09	34.6	9.85	45.51	100	90	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	55.66	56.73	74	-18.34	34.52	9.92	45.51	190	350	Peak
5150	49.47	50.54	54	-4.53	34.52	9.92	45.51	190	350	Average
5320	101.86	102.85	/	/	34.66	9.86	45.51	190	350	Peak
5320	95.41	96.4	/	/	34.66	9.86	45.51	190	350	Average
5350	56.01	56.99	74	-17.99	34.68	9.85	45.51	190	350	Peak
5350	48.71	49.69	54	-5.29	34.68	9.85	45.51	190	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	54.53	55.52	74	-19.47	34.6	9.92	45.51	100	90	Peak
5150	50.49	51.48	54	-3.51	34.6	9.92	45.51	100	90	Average
5320	105.19	106.24	/	/	34.6	9.86	45.51	100	90	Peak
5320	98.76	99.81	/	/	34.6	9.86	45.51	100	90	Average
5350	54.93	55.99	74	-19.07	34.6	9.85	45.51	100	90	Peak
5350	48.96	50.02	54	-5.04	34.6	9.85	45.51	100	90	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	54.4	55.47	74	-19.6	34.52	9.92	45.51	190	350	Peak
5150	49.88	50.95	54	-4.12	34.52	9.92	45.51	190	350	Average
5270	99.81	100.82	/	/	34.62	9.88	45.51	190	350	Peak
5270	93.85	94.86	/	/	34.62	9.88	45.51	190	350	Average
5350	53.21	54.19	74	-20.79	34.68	9.85	45.51	190	350	Peak
5350	48.45	49.43	54	-5.55	34.68	9.85	45.51	190	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	54.49	55.48	74	-19.51	34.6	9.92	45.51	100	90	Peak
5150	49.58	50.57	54	-4.42	34.6	9.92	45.51	100	90	Average
5270	102.32	103.35	/	/	34.6	9.88	45.51	100	90	Peak
5270	96.69	97.72	/	/	34.6	9.88	45.51	100	90	Average
5350	53.7	54.76	74	-20.3	34.6	9.85	45.51	100	90	Peak
5350	48.89	49.95	54	-5.11	34.6	9.85	45.51	100	90	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	54.99	56.06	74	-19.01	34.52	9.92	45.51	190	350	Peak
5150	48.55	49.62	54	-5.45	34.52	9.92	45.51	190	350	Average
5310	98.09	99.09	/	/	34.65	9.86	45.51	190	350	Peak
5310	92.68	93.68	/	/	34.65	9.86	45.51	190	350	Average
5350	54.34	55.32	74	-19.66	34.68	9.85	45.51	190	350	Peak
5350	49.56	50.54	54	-4.44	34.68	9.85	45.51	190	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	54.15	55.14	74	-19.85	34.6	9.92	45.51	100	90	Peak
5150	48.99	49.98	54	-5.01	34.6	9.92	45.51	100	90	Average
5310	101.47	102.52	/	/	34.6	9.86	45.51	100	90	Peak
5310	95.8	96.85	/	/	34.6	9.86	45.51	100	90	Average
5350	57.41	58.47	74	-16.59	34.6	9.85	45.51	100	90	Peak
5350	50.61	51.67	54	-3.39	34.6	9.85	45.51	100	90	Average

REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 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	52.99	54.06	74	-21.01	34.52	9.92	45.51	190	350	Peak
5150	48.84	49.91	54	-5.16	34.52	9.92	45.51	190	350	Average
5260	101.99	103.01	/	/	34.61	9.88	45.51	190	350	Peak
5260	93.84	94.86	/	/	34.61	9.88	45.51	190	350	Average
5350	54.52	55.5	74	-19.48	34.68	9.85	45.51	190	350	Peak
5350	47.22	48.2	54	-6.78	34.68	9.85	45.51	190	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	56.29	57.28	74	-17.71	34.6	9.92	45.51	100	90	Peak
5150	49.84	50.83	54	-4.16	34.6	9.92	45.51	100	90	Average
5260	105.3	106.33	/	/	34.6	9.88	45.51	100	90	Peak
5260	98.57	99.6	/	/	34.6	9.88	45.51	100	90	Average
5350	53.95	55.01	74	-20.05	34.6	9.85	45.51	100	90	Peak
5350	47.23	48.29	54	-6.77	34.6	9.85	45.51	100	90	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	56.67	57.74	74	-17.33	34.52	9.92	45.51	190	350	Peak
5150	49.37	50.44	54	-4.63	34.52	9.92	45.51	190	350	Average
5300	100.52	101.52	/	/	34.64	9.87	45.51	190	350	Peak
5300	94.16	95.16	/	/	34.64	9.87	45.51	190	350	Average
5350	53.59	54.57	74	-20.41	34.68	9.85	45.51	190	350	Peak
5350	47.59	48.57	54	-6.41	34.68	9.85	45.51	190	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	55.98	56.97	74	-18.02	34.6	9.92	45.51	100	90	Peak
5150	49.61	50.6	54	-4.39	34.6	9.92	45.51	100	90	Average
5300	103.28	104.32	/	/	34.6	9.87	45.51	100	90	Peak
5300	97.95	98.99	/	/	34.6	9.87	45.51	100	90	Average
5350	54.73	55.79	74	-19.27	34.6	9.85	45.51	100	90	Peak
5350	48.09	49.15	54	-5.91	34.6	9.85	45.51	100	90	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	54.1	55.17	74	-19.9	34.52	9.92	45.51	190	350	Peak
5150	49.27	50.34	54	-4.73	34.52	9.92	45.51	190	350	Average
5320	100.28	101.27	/	/	34.66	9.86	45.51	190	350	Peak
5320	93.25	94.24	/	/	34.66	9.86	45.51	190	350	Average
5350	54.33	55.31	74	-19.67	34.68	9.85	45.51	190	350	Peak
5350	47.68	48.66	54	-6.32	34.68	9.85	45.51	190	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	55.43	56.42	74	-18.57	34.6	9.92	45.51	100	90	Peak
5150	48.87	49.86	54	-5.13	34.6	9.92	45.51	100	90	Average
5320	103.64	104.69	/	/	34.6	9.86	45.51	100	90	Peak
5320	97.44	98.49	/	/	34.6	9.86	45.51	100	90	Average
5350	54.09	55.15	74	-19.91	34.6	9.85	45.51	100	90	Peak
5350	47.05	48.11	54	-6.95	34.6	9.85	45.51	100	90	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	56.24	57.31	74	-17.76	34.52	9.92	45.51	190	350	Peak
5150	49.57	50.64	54	-4.43	34.52	9.92	45.51	190	350	Average
5270	97.09	98.1	/	/	34.62	9.88	45.51	190	350	Peak
5270	92.41	93.42	/	/	34.62	9.88	45.51	190	350	Average
5350	53.58	54.56	74	-20.42	34.68	9.85	45.51	190	350	Peak
5350	48.29	49.27	54	-5.71	34.68	9.85	45.51	190	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	53.02	54.01	74	-20.98	34.6	9.92	45.51	100	90	Peak
5150	50.33	51.32	54	-3.67	34.6	9.92	45.51	100	90	Average
5270	100.82	101.85	/	/	34.6	9.88	45.51	100	90	Peak
5270	95.21	96.24	/	/	34.6	9.88	45.51	100	90	Average
5350	54.28	55.34	74	-19.72	34.6	9.85	45.51	100	90	Peak
5350	47.71	48.77	54	-6.29	34.6	9.85	45.51	100	90	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	55.54	56.61	74	-18.46	34.52	9.92	45.51	100	80	Peak
5150	49.36	50.43	54	-4.64	34.52	9.92	45.51	100	80	Average
5310	95.42	96.42	/	/	34.65	9.86	45.51	100	80	Peak
5310	89.76	90.76	/	/	34.65	9.86	45.51	100	80	Average
5350	53.75	54.73	74	-20.25	34.68	9.85	45.51	100	80	Peak
5350	48.66	49.64	54	-5.34	34.68	9.85	45.51	100	80	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	95	Peak
5150	49.64	50.63	54	-4.36	34.6	9.92	45.51	100	95	Average
5310	98.35	99.4	/	/	34.6	9.86	45.51	100	95	Peak
5310	93.58	94.63	/	/	34.6	9.86	45.51	100	95	Average
5350	55.55	56.61	74	-18.45	34.6	9.85	45.51	100	95	Peak
5350	48.98	50.04	54	-5.02	34.6	9.85	45.51	100	95	Average

REMARKS:

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



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5150	55.15	56.22	74	-18.85	34.52	9.92	45.51	100	90	Peak
5150	49.79	50.86	54	-4.21	34.52	9.92	45.51	100	90	Average
5290	91.67	92.68	/	/	34.63	9.87	45.51	100	90	Peak
5290	86.41	87.42	/	/	34.63	9.87	45.51	100	90	Average
5350	54.9	55.88	74	-19.1	34.68	9.85	45.51	100	90	Peak
5350	49.58	50.56	54	-4.42	34.68	9.85	45.51	100	90	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	54.91	55.9	74	-19.09	34.6	9.92	45.51	100	95	Peak
5150	49.82	50.81	54	-4.18	34.6	9.92	45.51	100	95	Average
5290	95.16	96.2	/	/	34.6	9.87	45.51	100	95	Peak
5290	90	91.04	/	/	34.6	9.87	45.51	100	95	Average
5350	56.87	57.93	74	-17.13	34.6	9.85	45.51	100	95	Peak
5350	50.63	51.69	54	-3.37	34.6	9.85	45.51	100	95	Average

REMARKS:

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



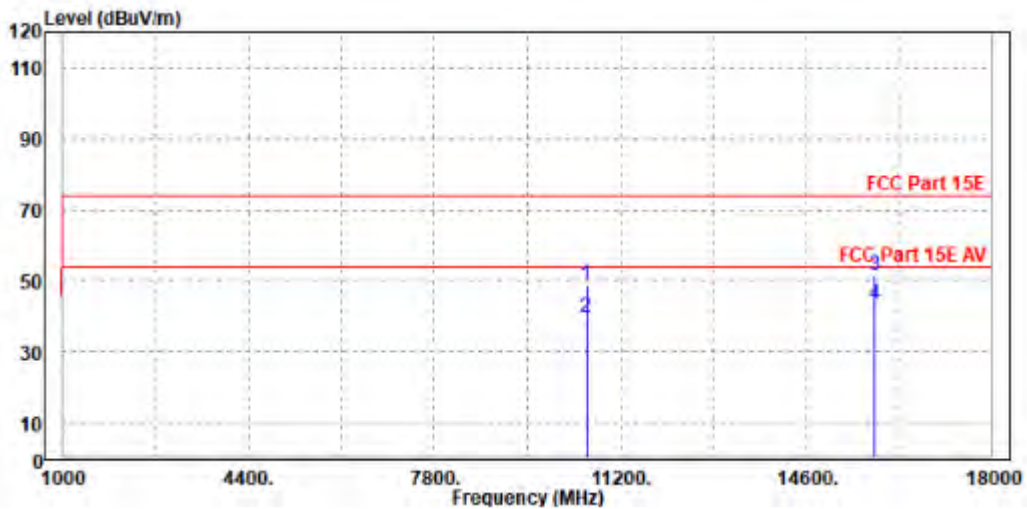
Worst case harmonic:

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

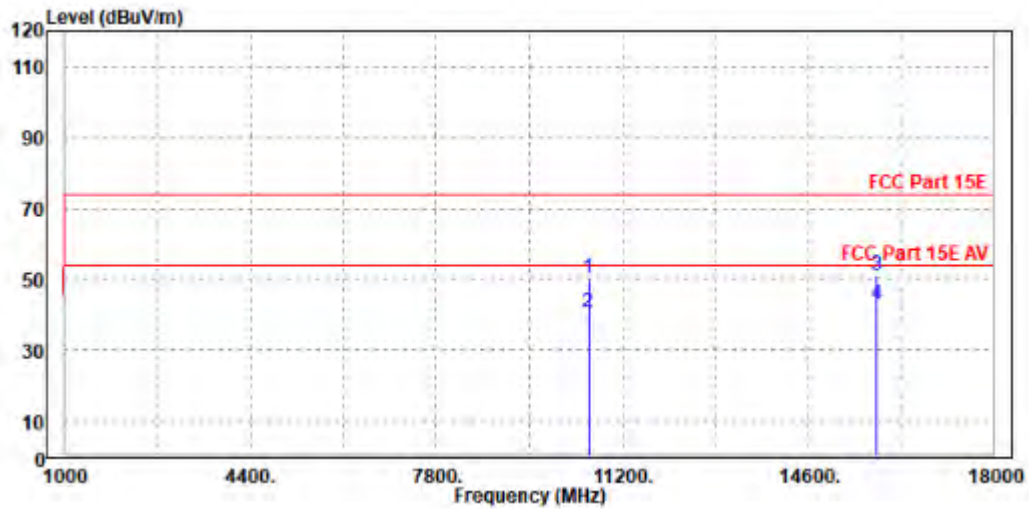
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	PoI/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	10580.000	49.03	42.09	74.00	-24.97	6.94	Peak	Horizontal
2	10580.000	39.49	32.55	54.00	-14.51	6.94	Average	Horizontal
3	PK15870.000	51.75	37.71	74.00	-22.25	14.04	Peak	Horizontal
4	PP15870.000	43.39	29.35	54.00	-10.61	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	50.06	41.88	74.00	-23.94	8.18	Peak	Vertical
2	10580.000	40.66	32.48	54.00	-13.34	8.18	Average	Vertical
3	PK15870.000	51.21	38.58	74.00	-22.79	12.63	Peak	Vertical
4	PP15870.000	42.79	30.16	54.00	-11.21	12.63	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 range above 18GHz, the emission is 20db below the limit, so the data hadn't record in the sheet.



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	54.81	55.74	74	-19.19	34.77	9.81	45.51	145	0	Peak
5460	48.23	49.16	54	-5.77	34.77	9.81	45.51	145	0	Average
5470	55.71	56.63	68.2	-12.49	34.78	9.81	45.51	145	0	Peak
5500	102.56	103.46	/	/	34.8	9.8	45.5	145	0	Peak
5500	96.59	97.49	/	/	34.8	9.8	45.5	145	0	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	57.47	58.57	74	-16.53	34.6	9.81	45.51	100	95	Peak
5460	48.59	49.69	54	-5.41	34.6	9.81	45.51	100	95	Average
5470	56.92	58.02	68.2	-11.28	34.6	9.81	45.51	100	95	Peak
5500	105.07	106.17	/	/	34.6	9.8	45.5	100	95	Peak
5500	98.79	99.89	/	/	34.6	9.8	45.5	100	95	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	54.09	55.02	74	-19.91	34.77	9.81	45.51	145	0	Peak
5460	47.78	48.71	54	-6.22	34.77	9.81	45.51	145	0	Average
5470	54.49	55.41	68.2	-13.71	34.78	9.81	45.51	145	0	Peak
5580	101.67	102.44	/	/	34.9	9.83	45.5	145	0	Peak
5580	95.93	96.7	/	/	34.9	9.83	45.5	145	0	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.11	55.21	74	-19.89	34.6	9.81	45.51	100	98	Peak
5460	48.17	49.27	54	-5.83	34.6	9.81	45.51	100	98	Average
5470	53.9	55	68.2	-14.3	34.6	9.81	45.51	100	98	Peak
5580	105.15	106.12	/	/	34.7	9.83	45.5	100	98	Peak
5580	99.4	100.37	/	/	34.7	9.83	45.5	100	98	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	102.9	103.49	/	/	35.04	9.87	45.5	145	0	Peak
5700	96.61	97.2	/	/	35.04	9.87	45.5	145	0	Average
5725	57.57	58.12	68.2	-10.63	35.07	9.88	45.5	145	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
5700	105.72	106.51	/	/	34.84	9.87	45.5	100	95	Peak
5700	99.86	100.65	/	/	34.84	9.87	45.5	100	95	Average
5725	56.79	57.54	68.2	-11.41	34.87	9.88	45.5	100	95	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.



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	53.54	54.46	74	-20.46	34.78	9.81	45.51	100	60	Peak
5720	103.49	104.06	/	/	35.06	9.87	45.5	100	60	Peak
5720	97.19	97.76	/	/	35.06	9.87	45.5	100	60	Average
5850	55.33	55.69	68.2	-12.87	35.22	9.92	45.5	100	60	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	54.94	56.04	74	-19.06	34.6	9.81	45.51	100	95	Peak
5720	105.95	106.72	/	/	34.86	9.87	45.5	100	95	Peak
5720	99.51	100.28	/	/	34.86	9.87	45.5	100	95	Average
5850	55.54	56.1	68.2	-12.66	35.02	9.92	45.5	100	95	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 (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	53.6	54.53	74	-20.4	34.77	9.81	45.51	145	0	Peak
5460	47.7	48.63	54	-6.3	34.77	9.81	45.51	145	0	Average
5470	55.81	56.73	68.2	-12.39	34.78	9.81	45.51	145	0	Peak
5500	100.02	100.92	/	/	34.8	9.8	45.5	145	0	Peak
5500	94	94.9	/	/	34.8	9.8	45.5	145	0	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	55.59	56.69	74	-18.41	34.6	9.81	45.51	100	95	Peak
5460	48.36	49.46	54	-5.64	34.6	9.81	45.51	100	95	Average
5470	54.86	55.96	68.2	-13.34	34.6	9.81	45.51	100	95	Peak
5500	102.48	103.58	/	/	34.6	9.8	45.5	100	95	Peak
5500	96.53	97.63	/	/	34.6	9.8	45.5	100	95	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	53.69	54.62	74	-20.31	34.77	9.81	45.51	145	90	Peak
5460	48.09	49.02	54	-5.91	34.77	9.81	45.51	145	90	Average
5470	53.97	54.89	68.2	-14.23	34.78	9.81	45.51	145	90	Peak
5580	100.25	101.02	/	/	34.9	9.83	45.5	145	90	Peak
5580	93.66	94.43	/	/	34.9	9.83	45.5	145	90	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	54.65	55.75	74	-19.35	34.6	9.81	45.51	100	95	Peak
5460	48.17	49.27	54	-5.83	34.6	9.81	45.51	100	95	Average
5470	53.36	54.46	68.2	-14.84	34.6	9.81	45.51	100	95	Peak
5580	102.87	103.84	/	/	34.7	9.83	45.5	100	95	Peak
5580	96.82	97.79	/	/	34.7	9.83	45.5	100	95	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	99.48	100.07	/	/	35.04	9.87	45.5	145	90	Peak
5700	93.87	94.46	/	/	35.04	9.87	45.5	145	90	Average
5725	56.71	57.26	68.2	-11.49	35.07	9.88	45.5	145	90	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	103.74	104.53	/	/	34.84	9.87	45.5	100	95	Peak
5700	97.29	98.08	/	/	34.84	9.87	45.5	100	95	Average
5725	55.38	56.13	68.2	-12.82	34.87	9.88	45.5	100	95	Peak

REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5700MHz: Fundamental frequency.
3. #: Out of restricted band.



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	53.72	54.64	74	-20.28	34.78	9.81	45.51	145	0	Peak
5720	100.32	100.89	/	/	35.06	9.87	45.5	145	0	Peak
5720	94.64	95.21	/	/	35.06	9.87	45.5	145	0	Average
5850	56.78	57.14	68.2	-11.42	35.22	9.92	45.5	145	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
5470	54.73	55.83	74	-19.27	34.6	9.81	45.51	100	95	Peak
5720	103.14	103.91	/	/	34.86	9.87	45.5	100	95	Peak
5720	97.03	97.8	/	/	34.86	9.87	45.5	100	95	Average
5850	57.15	57.71	68.2	-11.05	35.02	9.92	45.5	100	95	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	53.83	54.76	74	-20.17	34.77	9.81	45.51	145	0	Peak
5460	48.02	48.95	54	-5.98	34.77	9.81	45.51	145	0	Average
5470	54.19	55.11	68.2	-14.01	34.78	9.81	45.51	145	0	Peak
5510	95.78	96.67	/	/	34.81	9.8	45.5	145	0	Peak
5510	91.48	92.37	/	/	34.81	9.8	45.5	145	0	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.84	54.94	74	-20.16	34.6	9.81	45.51	100	95	Peak
5460	48.55	49.65	54	-5.45	34.6	9.81	45.51	100	95	Average
5470	54.79	55.89	68.2	-13.41	34.6	9.81	45.51	100	95	Peak
5510	97.66	98.75	/	/	34.61	9.8	45.5	100	95	Peak
5510	93.22	94.31	/	/	34.61	9.8	45.5	100	95	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	53.43	54.36	74	-20.57	34.77	9.81	45.51	145	0	Peak
5460	47.7	48.63	54	-6.3	34.77	9.81	45.51	145	0	Average
5470	53.77	54.69	68.2	-14.43	34.78	9.81	45.51	145	0	Peak
5550	95.15	95.97	/	/	34.86	9.82	45.5	145	0	Peak
5550	91.43	92.25	/	/	34.86	9.82	45.5	145	0	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.24	54.34	74	-20.76	34.6	9.81	45.51	100	95	Peak
5460	48.21	49.31	54	-5.79	34.6	9.81	45.51	100	95	Average
5470	55.24	56.34	68.2	-12.96	34.6	9.81	45.51	100	95	Peak
5550	97.25	98.27	/	/	34.66	9.82	45.5	100	95	Peak
5550	93.13	94.15	/	/	34.66	9.82	45.5	100	95	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	95.6	96.24	/	/	35	9.86	45.5	145	0	Peak
5670	91.16	91.8	/	/	35	9.86	45.5	145	0	Average
5725	54.98	55.53	68.2	-13.22	35.07	9.88	45.5	145	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
5670	98	98.84	/	/	34.8	9.86	45.5	100	95	Peak
5670	94.72	95.56	/	/	34.8	9.86	45.5	100	95	Average
5725	54.78	55.53	68.2	-13.42	34.87	9.88	45.5	100	95	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	53.08	54	74	-20.92	34.78	9.81	45.51	145	0	Peak
5710	95.57	96.15	/	/	35.05	9.87	45.5	145	0	Peak
5710	91.65	92.23	/	/	35.05	9.87	45.5	145	0	Average
5850	55.17	55.53	68.2	-13.03	35.22	9.92	45.5	145	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
5470	54.21	55.31	74	-19.79	34.6	9.81	45.51	100	95	Peak
5710	98.88	99.66	/	/	34.85	9.87	45.5	100	95	Peak
5710	94.59	95.37	/	/	34.85	9.87	45.5	100	95	Average
5850	55.8	56.36	68.2	-12.4	35.02	9.92	45.5	100	95	Peak

REMARKS:

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



802.11ac (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	54.7	55.63	74	-19.3	34.77	9.81	45.51	145	0	Peak
5460	48.21	49.14	54	-5.79	34.77	9.81	45.51	145	0	Average
5470	54.05	54.97	68.2	-14.15	34.78	9.81	45.51	145	0	Peak
5500	97.77	98.67	/	/	34.8	9.8	45.5	145	0	Peak
5500	91.67	92.57	/	/	34.8	9.8	45.5	145	0	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.75	55.85	74	-19.25	34.6	9.81	45.51	100	95	Peak
5460	48.05	49.15	54	-5.95	34.6	9.81	45.51	100	95	Average
5470	55.37	56.47	68.2	-12.83	34.6	9.81	45.51	100	95	Peak
5500	100.35	101.45	/	/	34.6	9.8	45.5	100	95	Peak
5500	94.33	95.43	/	/	34.6	9.8	45.5	100	95	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	55.08	56.01	74	-18.92	34.77	9.81	45.51	145	0	Peak
5460	48.06	48.99	54	-5.94	34.77	9.81	45.51	145	0	Average
5470	55.07	55.99	68.2	-13.13	34.78	9.81	45.51	145	0	Peak
5580	97	97.77	/	/	34.9	9.83	45.5	145	0	Peak
5580	91.1	91.87	/	/	34.9	9.83	45.5	145	0	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.29	55.39	74	-19.71	34.6	9.81	45.51	100	95	Peak
5460	47.68	48.78	54	-6.32	34.6	9.81	45.51	100	95	Average
5470	53.56	54.66	68.2	-14.64	34.6	9.81	45.51	100	95	Peak
5580	100.56	101.53	/	/	34.7	9.83	45.5	100	95	Peak
5580	94.69	95.66	/	/	34.7	9.83	45.5	100	95	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	98.44	99.03	/	/	35.04	9.87	45.5	145	0	Peak
5700	92.17	92.76	/	/	35.04	9.87	45.5	145	0	Average
5725	56.33	56.88	68.2	-11.87	35.07	9.88	45.5	145	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
5700	102.16	102.95	/	/	34.84	9.87	45.5	100	95	Peak
5700	95.76	96.55	/	/	34.84	9.87	45.5	100	95	Average
5725	55.22	55.97	68.2	-12.98	34.87	9.88	45.5	100	95	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	54.67	55.59	74	-19.33	34.78	9.81	45.51	145	0	Peak
5720	97.82	98.39	/	/	35.06	9.87	45.5	145	0	Peak
5720	92.94	93.51	/	/	35.06	9.87	45.5	145	0	Average
5850	55.06	55.42	68.2	-13.14	35.22	9.92	45.5	145	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
5470	53.57	54.67	74	-20.43	34.6	9.81	45.51	100	95	Peak
5720	101.49	102.26	/	/	34.86	9.87	45.5	100	95	Peak
5720	95.38	96.15	/	/	34.86	9.87	45.5	100	95	Average
5850	54.71	55.27	68.2	-13.49	35.02	9.92	45.5	100	95	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	53.74	54.67	74	-20.26	34.77	9.81	45.51	145	0	Peak
5460	48.41	49.34	54	-5.59	34.77	9.81	45.51	145	0	Average
5470	55.57	56.49	68.2	-12.63	34.78	9.81	45.51	145	0	Peak
5510	94.73	95.62	/	/	34.81	9.8	45.5	145	0	Peak
5510	89.97	90.86	/	/	34.81	9.8	45.5	145	0	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.51	54.61	74	-20.49	34.6	9.81	45.51	100	95	Peak
5460	48.24	49.34	54	-5.76	34.6	9.81	45.51	100	95	Average
5470	53.43	54.53	68.2	-14.77	34.6	9.81	45.51	100	95	Peak
5510	96.63	97.72	/	/	34.61	9.8	45.5	100	95	Peak
5510	91.36	92.45	/	/	34.61	9.8	45.5	100	95	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	55.38	56.31	74	-18.62	34.77	9.81	45.51	145	0	Peak
5460	47.69	48.62	54	-6.31	34.77	9.81	45.51	145	0	Average
5470	53.96	54.88	68.2	-14.24	34.78	9.81	45.51	145	0	Peak
5550	93.93	94.75	/	/	34.86	9.82	45.5	145	0	Peak
5550	89.79	90.61	/	/	34.86	9.82	45.5	145	0	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	54.5	55.6	74	-19.5	34.6	9.81	45.51	100	95	Peak
5460	47.57	48.67	54	-6.43	34.6	9.81	45.51	100	95	Average
5470	53.22	54.32	68.2	-14.98	34.6	9.81	45.51	100	95	Peak
5550	96.14	97.16	/	/	34.66	9.82	45.5	100	95	Peak
5550	91.54	92.56	/	/	34.66	9.82	45.5	100	95	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	93.6	94.24	/	/	35	9.86	45.5	145	0	Peak
5670	89.2	89.84	/	/	35	9.86	45.5	145	0	Average
5725	55.56	56.11	68.2	-12.64	35.07	9.88	45.5	145	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
5670	96.84	97.68	/	/	34.8	9.86	45.5	100	95	Peak
5670	92.33	93.17	/	/	34.8	9.86	45.5	100	95	Average
5725	53.55	54.3	68.2	-14.65	34.87	9.88	45.5	100	95	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	53.23	54.15	74	-20.77	34.78	9.81	45.51	145	0	Peak
5710	94.02	94.6	/	/	35.05	9.87	45.5	145	0	Peak
5710	90	90.58	/	/	35.05	9.87	45.5	145	0	Average
5850	56.94	57.3	68.2	-11.26	35.22	9.92	45.5	145	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
5470	53.58	54.68	74	-20.42	34.6	9.81	45.51	100	95	Peak
5710	96.8	97.58	/	/	34.85	9.87	45.5	100	95	Peak
5710	93.06	93.84	/	/	34.85	9.87	45.5	100	95	Average
5850	55.01	55.57	68.2	-13.19	35.02	9.92	45.5	100	95	Peak

REMARKS:

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



802.11ac (80MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ 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	54.68	55.61	74	-19.32	34.77	9.81	45.51	145	0	Peak
5460	49.78	50.71	54	-4.22	34.77	9.81	45.51	145	0	Average
5470	53.9	54.82	68.2	-14.3	34.78	9.81	45.51	145	0	Peak
5530	90.18	91.03	/	/	34.84	9.81	45.5	145	0	Peak
5530	86.09	86.94	/	/	34.84	9.81	45.5	145	0	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5460	53.7	54.8	74	-20.3	34.6	9.81	45.51	100	95	Peak
5460	49.66	50.76	54	-4.34	34.6	9.81	45.51	100	95	Average
5470	54.43	55.53	68.2	-13.77	34.6	9.81	45.51	100	95	Peak
5530	92.78	93.83	/	/	34.64	9.81	45.5	100	95	Peak
5530	89.12	90.17	/	/	34.64	9.81	45.5	100	95	Average

REMARKS:

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



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5610	88.73	89.46	/	/	34.93	9.84	45.5	145	0	Peak
5610	86.15	86.88	/	/	34.93	9.84	45.5	145	0	Average
5725	54.47	55.02	68.2	-13.73	35.07	9.88	45.5	145	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
5610	91.94	92.87	/	/	34.73	9.84	45.5	100	95	Peak
5610	88.81	89.74	/	/	34.73	9.84	45.5	100	95	Average
5725	54.68	55.43	68.2	-13.52	34.87	9.88	45.5	100	95	Peak

REMARKS:

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



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	53.12	54.04	74	-20.88	34.78	9.81	45.51	145	0	Peak
5690	89.87	90.48	/	/	35.03	9.86	45.5	145	0	Peak
5690	86.97	87.58	/	/	35.03	9.86	45.5	145	0	Average
5850	56.02	56.38	68.2	-12.18	35.22	9.92	45.5	145	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
5470	54.02	55.12	74	-19.98	34.6	9.81	45.51	100	95	Peak
5690	93.13	93.94	/	/	34.83	9.86	45.5	100	95	Peak
5690	90.56	91.37	/	/	34.83	9.86	45.5	100	95	Average
5850	56	56.56	68.2	-12.2	35.02	9.92	45.5	100	95	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.



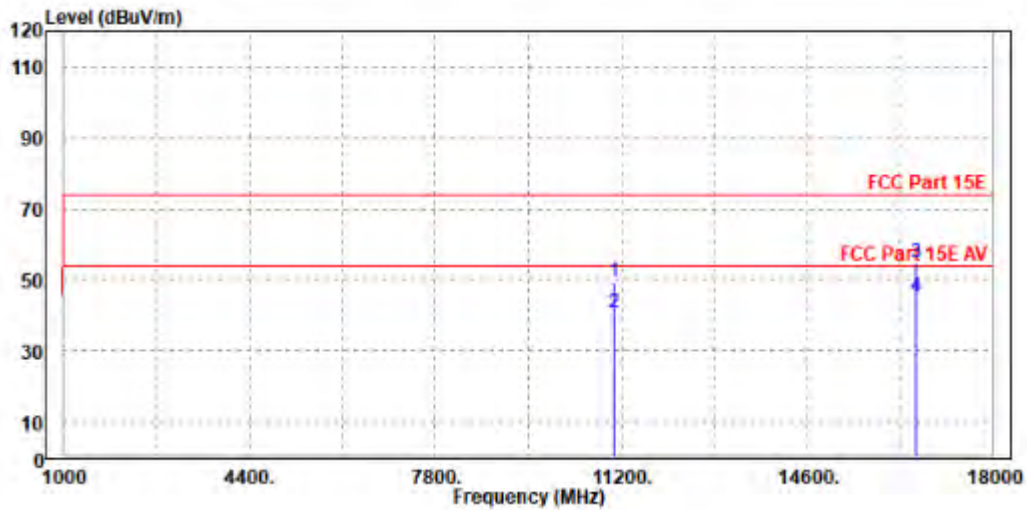
Worst case harmonic:

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

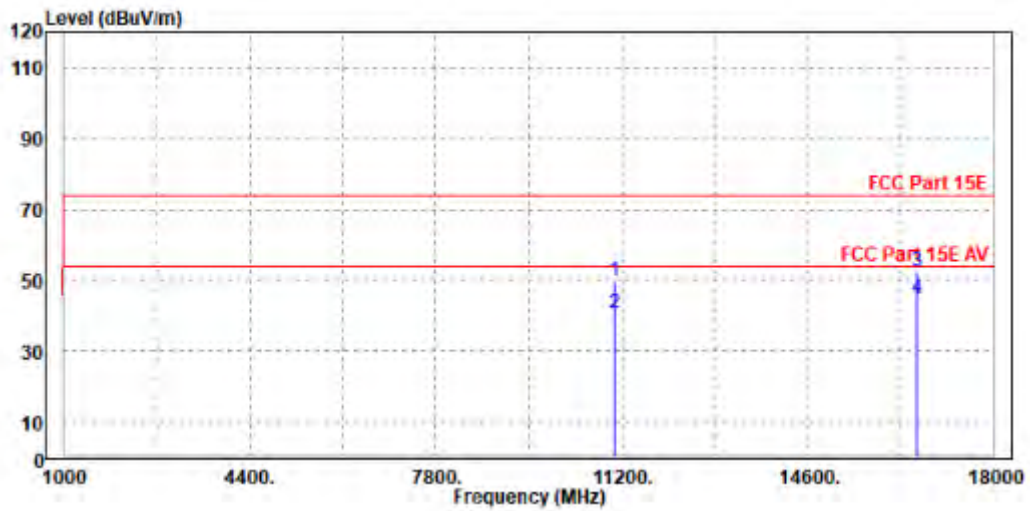
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBuV/m	dBuV	dBuV/m	dB	dB/m		
1	11060.000	49.26	42.14	74.00	-24.74	7.12	Peak	Horizontal
2	11060.000	40.75	33.63	54.00	-13.25	7.12	Average	Horizontal
3	PK16590.000	54.53	38.50	74.00	-19.47	16.03	Peak	Horizontal
4	PP16590.000	45.35	29.32	54.00	-8.65	16.03	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	11060.000	49.69	42.14	74.00	-24.31	7.55	Peak	Vertical
2	11060.000	40.41	32.86	54.00	-13.59	7.55	Average	Vertical
3	PK16590.000	52.69	38.54	74.00	-21.31	14.15	Peak	Vertical
4	PP16590.000	44.67	30.52	54.00	-9.33	14.15	Average	Vertical



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5530MHz: Fundamental frequency.
3. For frequency range above 18GHz, the emission is 20db below the limit,so the data hadn't record 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	105.3	105.83	/	/	35.09	9.88	45.5	100	60	Peak
5745	98.8	99.33	/	/	35.09	9.88	45.5	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	107.4	108.13	/	/	34.89	9.88	45.5	100	80	Peak
5745	101.26	101.99	/	/	34.89	9.88	45.5	100	80	Average

REMARKS:

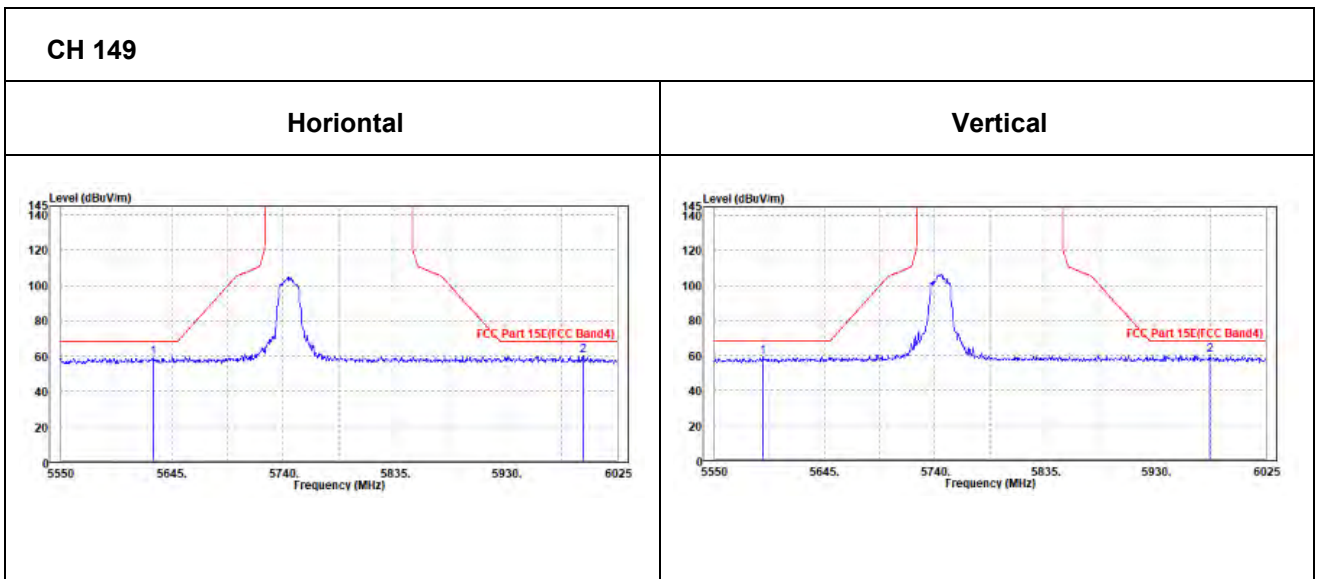
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.



OOBE DATA

802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5628.85	59.08	59.79	68.2	-9.12	34.95	9.84	45.5	100	360	Peak
5996.025	60.04	60.17	68.2	-8.16	35.4	9.97	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5591.8	58.91	59.87	68.2	-9.29	34.71	9.83	45.5	100	0	Peak
5977.025	60.29	60.66	68.2	-7.91	35.17	9.96	45.5	100	0	Peak





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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	105.58	106.04	/	/	35.14	9.9	45.5	100	60	Peak
5785	98.91	99.37	/	/	35.14	9.9	45.5	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	107.51	108.17	/	/	34.94	9.9	45.5	100	80	Peak
5785	101.28	101.94	/	/	34.94	9.9	45.5	100	80	Average

REMARKS:

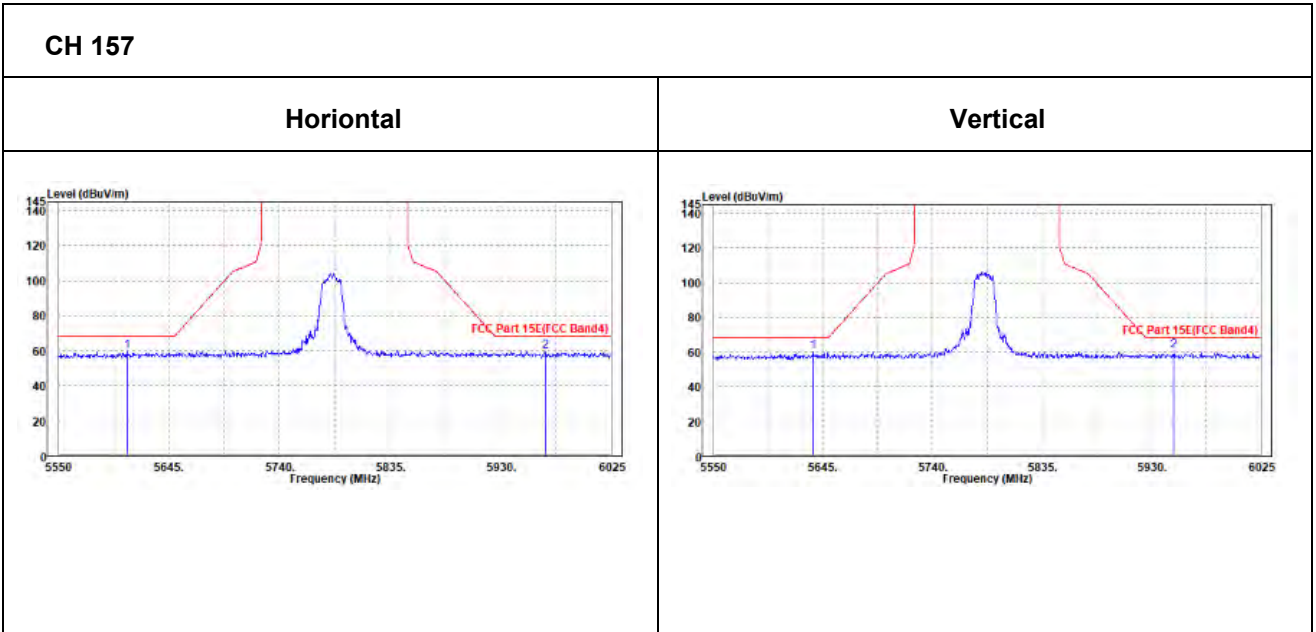
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.



OOBE DATA

802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5608.9	59.28	60.01	68.2	-8.92	34.93	9.84	45.5	100	0	Peak
5968.475	59.32	59.5	68.2	-8.88	35.36	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
5636.45	59.95	60.84	68.2	-8.25	34.76	9.85	45.5	100	360	Peak
5949.475	60.43	60.84	68.2	-7.77	35.14	9.95	45.5	100	360	Peak





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	105.33	105.73	/	/	35.19	9.91	45.5	100	60	Peak
5825	98.68	99.08	/	/	35.19	9.91	45.5	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	107.9	108.5	/	/	34.99	9.91	45.5	100	80	Peak
5825	100.98	101.58	/	/	34.99	9.91	45.5	100	80	Average

REMARKS:

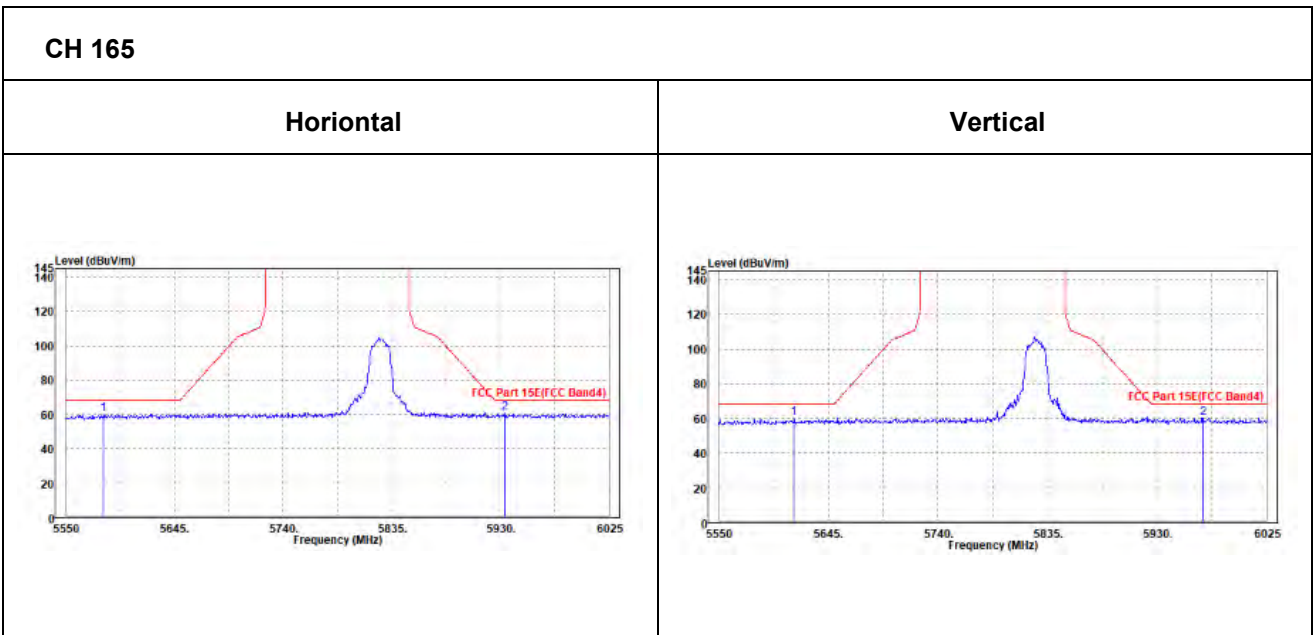
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.



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802.11a

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5582.775	60.1	60.87	68.2	-8.1	34.9	9.83	45.5	200	360	Peak
5933.8	60.5	60.73	68.2	-7.7	35.32	9.95	45.5	200	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5615.075	60	60.92	68.2	-8.2	34.74	9.84	45.5	100	0	Peak
5970.375	60.18	60.56	68.2	-8.02	35.16	9.96	45.5	100	0	Peak





802.11n (20MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	102.94	103.47	/	/	35.09	9.88	45.5	100	60	Peak
5745	96.32	96.85	/	/	35.09	9.88	45.5	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5745	105.05	105.78	/	/	34.89	9.88	45.5	100	80	Peak
5745	98.55	99.28	/	/	34.89	9.88	45.5	100	80	Average

REMARKS:

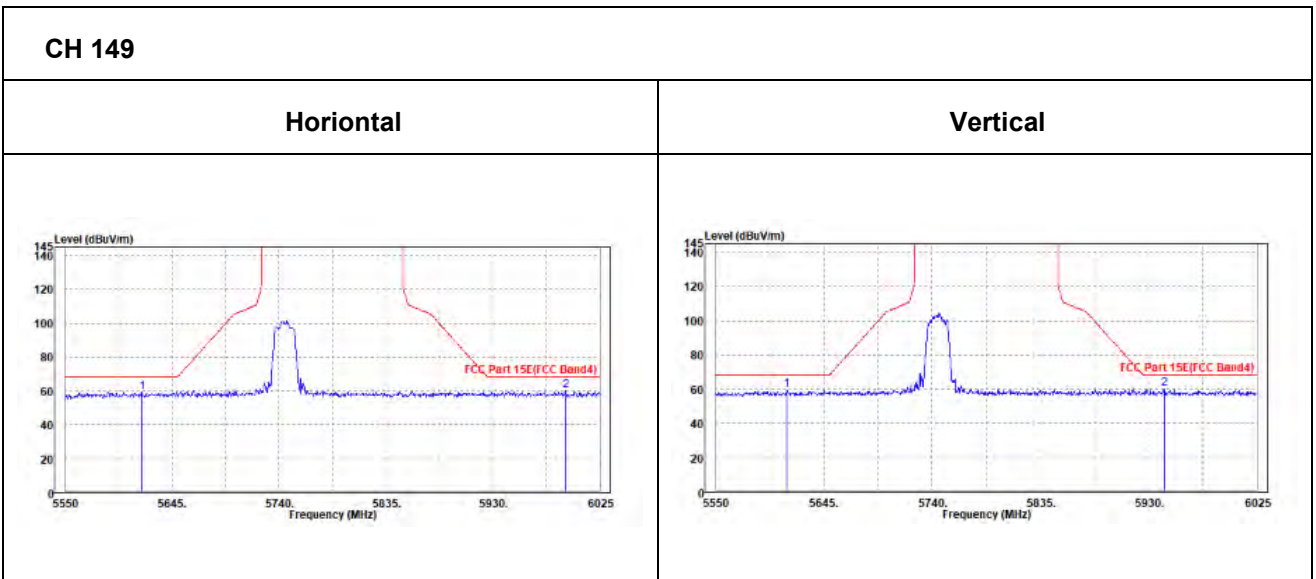
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5745MHz: Fundamental frequency.



Oobe Data

802.11n (20MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5617.925	59.09	59.81	68.2	-9.11	34.94	9.84	45.5	200	0	Peak
5994.6	60.07	60.21	68.2	-8.13	35.39	9.97	45.5	200	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
5612.7	59.28	60.2	68.2	-8.92	34.74	9.84	45.5	100	360	Peak
5943.3	60.02	60.44	68.2	-8.18	35.13	9.95	45.5	100	360	Peak





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	102.41	102.87	/	/	35.14	9.9	45.5	100	60	Peak
5785	96.1	96.56	/	/	35.14	9.9	45.5	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5785	104.55	105.21	/	/	34.94	9.9	45.5	100	80	Peak
5785	98.54	99.2	/	/	34.94	9.9	45.5	100	80	Average

REMARKS:

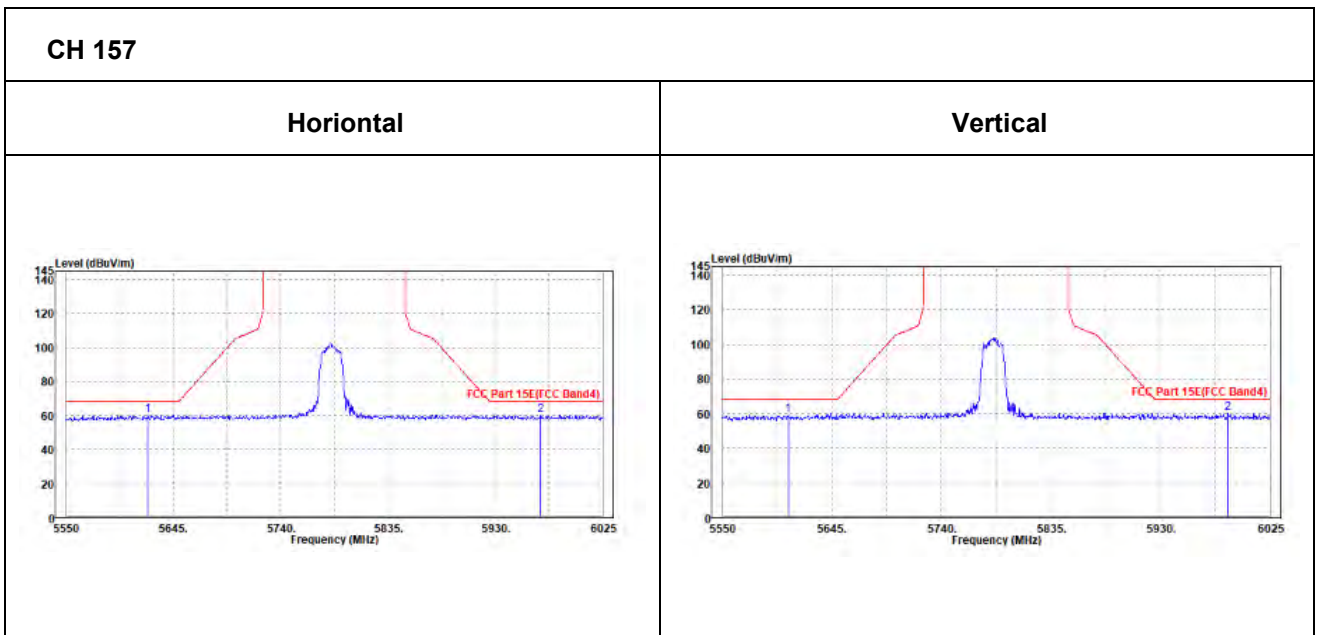
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5785MHz: Fundamental frequency.



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802.11n (20MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5622.675	59.93	60.64	68.2	-8.27	34.95	9.84	45.5	200	360	Peak
5969.9	60.03	60.21	68.2	-8.17	35.36	9.96	45.5	200	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV /m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5607	59.14	60.07	68.2	-9.06	34.73	9.84	45.5	100	0	Peak
5988.425	59.93	60.27	68.2	-8.27	35.19	9.97	45.5	100	0	Peak





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	101.88	102.28	/	/	35.19	9.91	45.5	100	60	Peak
5825	96.06	96.46	/	/	35.19	9.91	45.5	100	60	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5825	105.59	106.19	/	/	34.99	9.91	45.5	100	80	Peak
5825	100.01	100.61	/	/	34.99	9.91	45.5	100	80	Average

REMARKS:

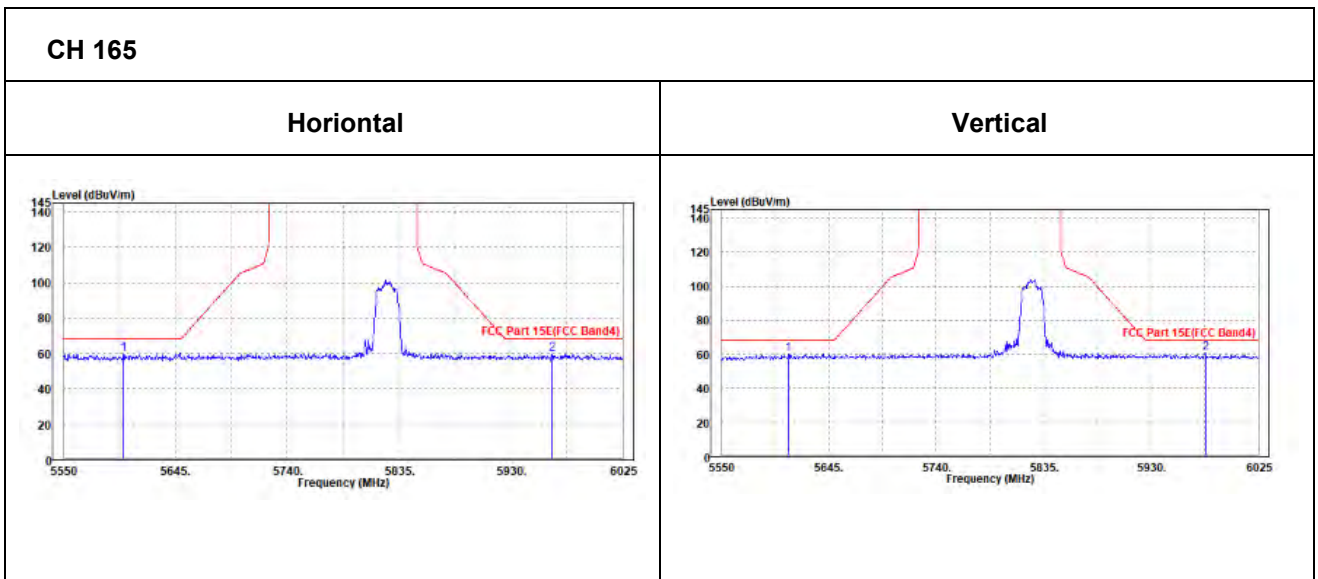
- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
- 5825MHz: Fundamental frequency.



Oobe Data

802.11n (20MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5600.825	59.33	60.08	68.2	-8.87	34.92	9.83	45.5	100	0	Peak
5965.15	59.56	59.74	68.2	-8.64	35.36	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
5609.375	60.14	61.07	68.2	-8.06	34.73	9.84	45.5	100	360	Peak
5977.975	60.77	61.14	68.2	-7.43	35.17	9.96	45.5	100	360	Peak





802.11n (40MHz)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	96.95	97.45	/	/	35.11	9.89	45.5	100	60	Peak
5755	93.38	93.88	/	/	35.11	9.89	45.5	100	60	Average
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5755	101.69	102.39	/	/	34.91	9.89	45.5	100	80	Peak
5755	96.26	96.96	/	/	34.91	9.89	45.5	100	80	Average

REMARKS:

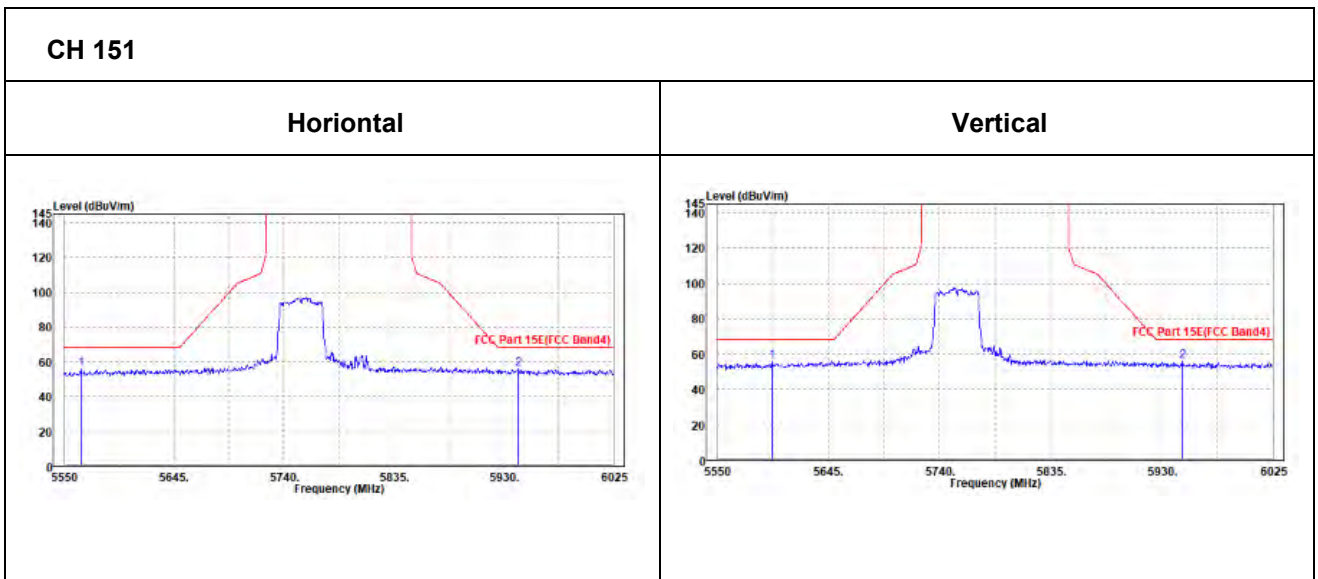
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Emission level – Limit value.
2. 5755MHz: Fundamental frequency.



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802.11n (40MHz)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5564.725	55.48	56.28	68.2	-12.72	34.88	9.82	45.5	100	360	Peak
5942.825	55.75	55.97	68.2	-12.45	35.33	9.95	45.5	100	360	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5597.025	55.46	56.41	68.2	-12.74	34.72	9.83	45.5	100	0	Peak
5948.05	55.71	56.12	68.2	-12.49	35.14	9.95	45.5	100	0	Peak





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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	97.88	98.33	/	/	35.15	9.9	45.5	100	60	Peak
5795	93.71	94.16	/	/	35.15	9.9	45.5	100	60	Average

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
5795	100.25	100.9	/	/	34.95	9.9	45.5	100	80	Peak
5795	96.19	96.84	/	/	34.95	9.9	45.5	100	80	Average

REMARKS:

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