



# FCC RADIO TEST REPORT

**FCC ID** : HLZA22002  
**Equipment** : Tablet PC  
**Brand Name** : acer  
**Model Name** : A22002  
**Marketing Name** : Iconia Tab A10;A10-11  
**Applicant** : Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,  
New Taipei City 22181, Taiwan (R.O.C)  
**Manufacturer** : Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,  
New Taipei City 22181, Taiwan (R.O.C)  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Apr. 06, 2023 and testing was performed from Apr. 21, 2023 to May 22, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

*Louis Wu*

Approved by: Louis Wu

**Sporton International Inc. Wensan Laboratory**

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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### History of this test report

Report No.	Version	Description	Issue Date
FR333113E	01	Initial issue of report	May 25, 2023
FR333113E	02	Revise Antenna information and appendix A This report is an updated version, replacing the report issued on May 25, 2023.	May 29, 2023



### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i)	6dB & 26dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)	Maximum Conducted Output Power	Pass	-
3.3	15.407(a)	Power Spectral Density	Pass	-
3.4	15.407(b)	Unwanted Emissions	Pass	5.69 dB under the limit at 17235.000 MHz
3.5	15.207	AC Conducted Emission	Pass	9.41 dB under the limit at 0.151 MHz
3.6	15.203	Antenna Requirement	Pass	-

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

**Reviewed by: Danny Lee**  
**Report Producer: Clio Lo**



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
<b>General Specs</b> Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, and GNSS.	
<b>Antenna Type</b> WLAN: PCB Antenna Bluetooth: PCB Antenna GPS / Glonass / BDS: PIFA Antenna	

Antenna information		
5725 MHz ~ 5850 MHz	Peak Gain (dBi)	3.07

**Remark:** The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.



### 1.3 Testing Location

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH05-HY, CO07-HY, 03CH12-HY

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW3786

### 1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

**Remark:**

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5850 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

**Note:**

1. The above Frequency and Channel with "\*" are 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80.



## 2.2 Test Mode

The power for 802.11ac VHT20/VHT40 mode is smaller than 802.11n HT20/HT40 mode, so all other conducted and radiated test is covered by 802.11n mode.

The final test modes include the worst data rates for each modulation shown in the table below.

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0

Test Cases	
<b>AC Conducted Emission</b>	Mode 1 : Bluetooth Link + WLAN (2.4GHz) Link + H-Pattern + Earphone + SD Card + USB Cable (Charging from Adapter)
	Mode 2 : Bluetooth Link + WLAN (5GHz) Link + MPEG4 + Earphone + SD Card + USB Cable (Charging from Adapter)
	Mode 3 : Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Front) + Earphone + SD Card + USB Cable (Data Link with Notebook)
	Mode 4 : Bluetooth Idle + WLAN (5GHz) Idle + Camera (Rear) + Earphone + SD Card + USB Cable (Data Link with Notebook)
<b>Remark:</b>	
1. The worst case of Conducted Emission is mode 3; only the test data of it was reported.	
2. Data Link with Notebook means data application transferred mode between EUT and Notebook.	

Ch. #	Band IV : 5725-5850 MHz			
	802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L Low	149	149	151	-
M Middle	157	157	-	155
H High	165	165	159	-

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.



### 2.3 Connection Diagram of Test System



### 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY700A2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC52	MSQ-RTAC4A00	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Earphone + Mic	Samsung	Ecouteur	N/A	Unshielded, 1.2m	N/A
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0m	N/A
6.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0m	N/A



## 2.5 EUT Operation Test Setup

The RF test items, make the EUT (SW: sys\_mssi\_t\_64\_ab-userdebug 12 SP1A.210812.016 1681386744 releas-keys) get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

##### 3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

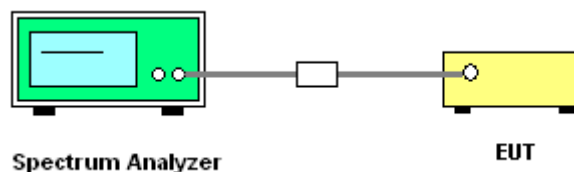
##### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85 GHz
2. Set RBW = 100 kHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

##### 3.1.4 Test Setup

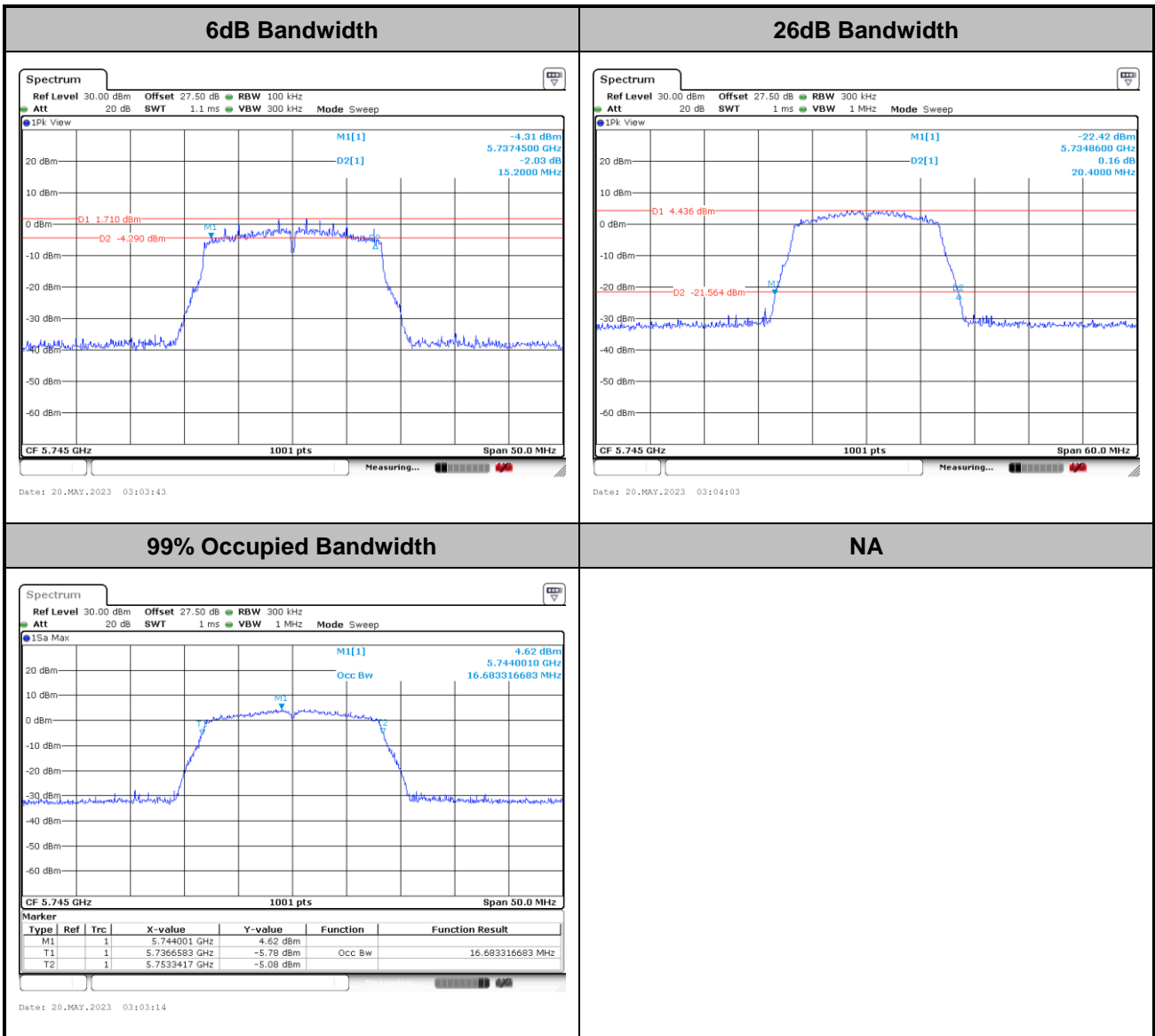


##### 3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.



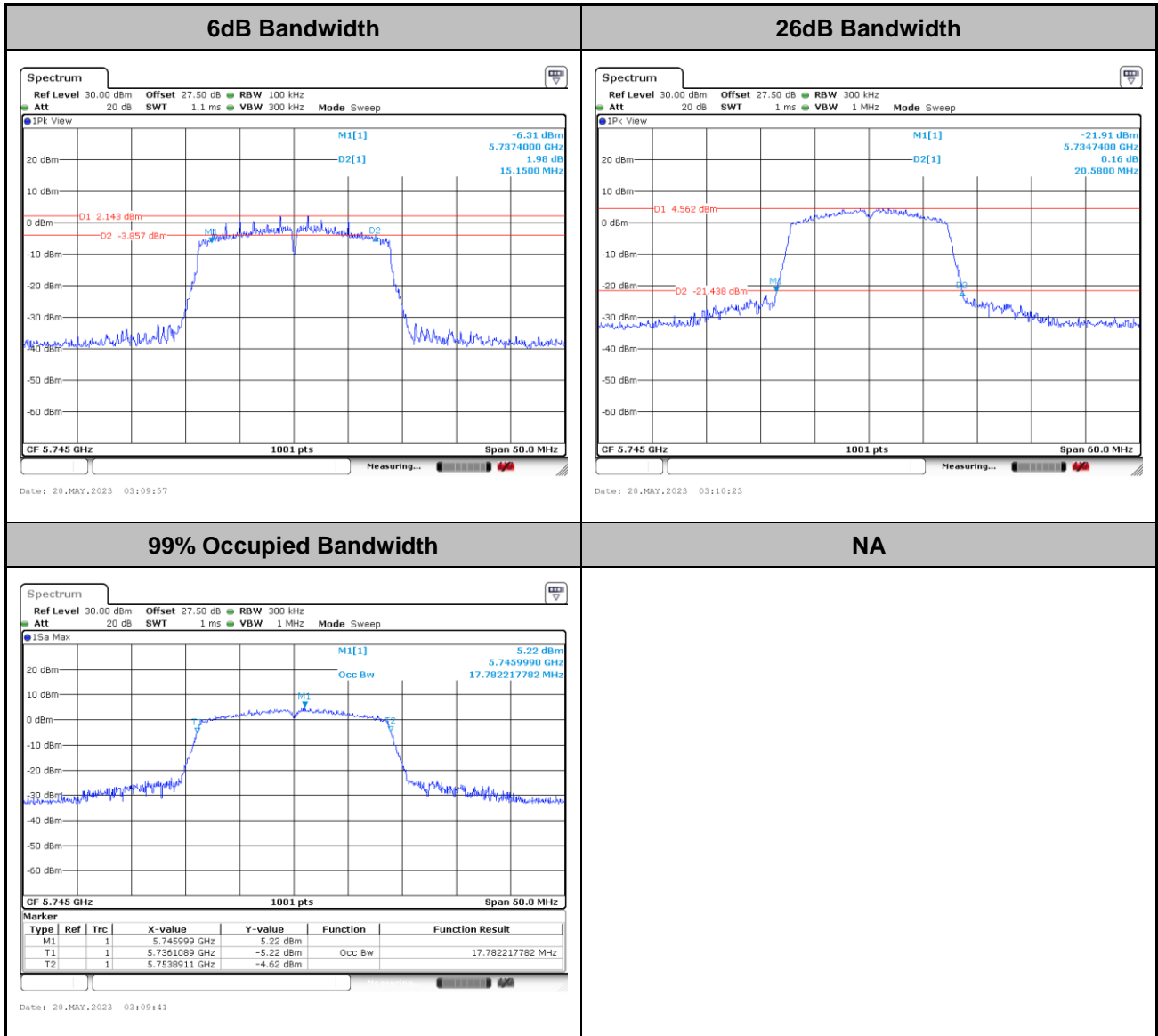
<802.11a>



**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



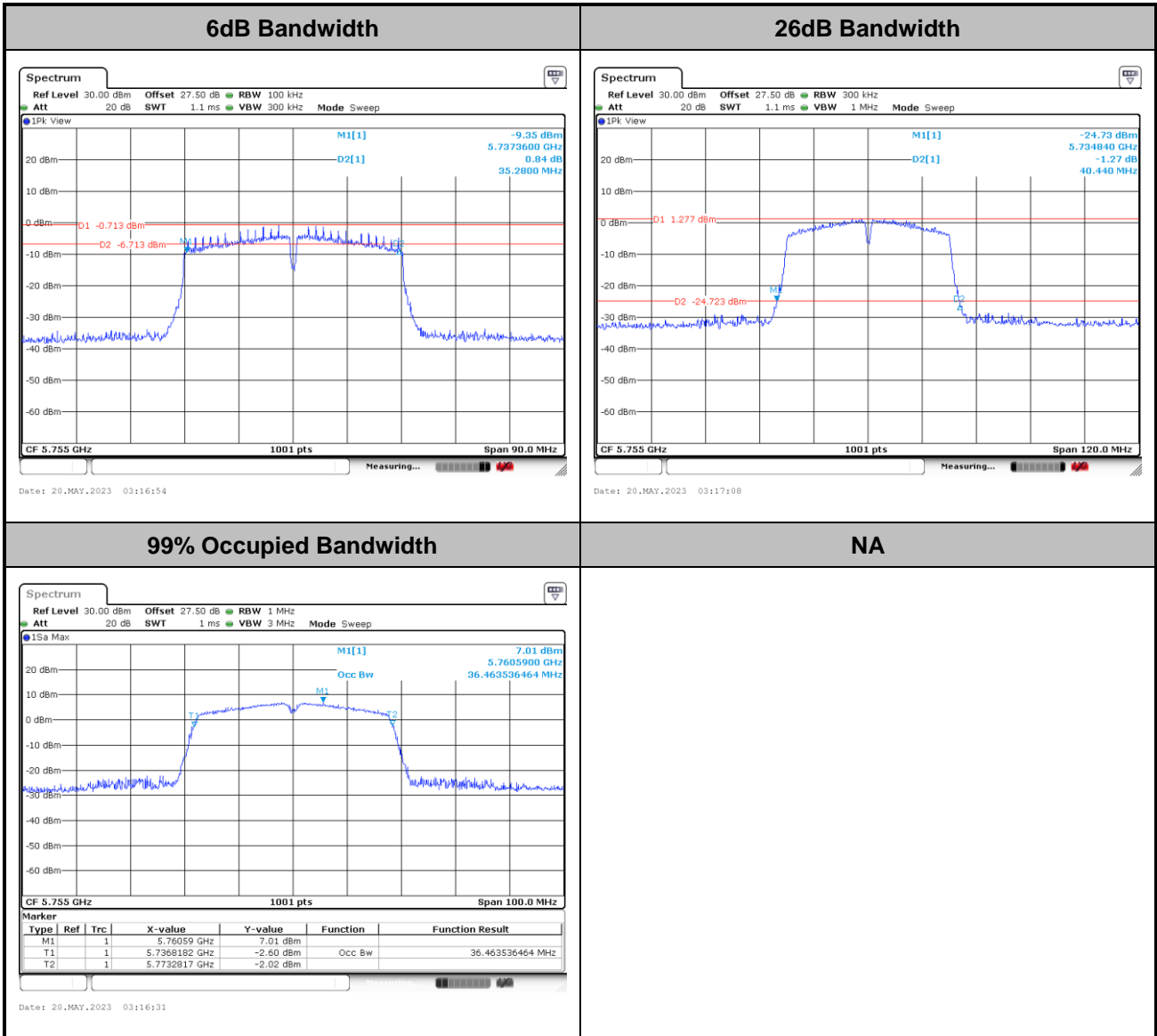
<802.11n HT20>



**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



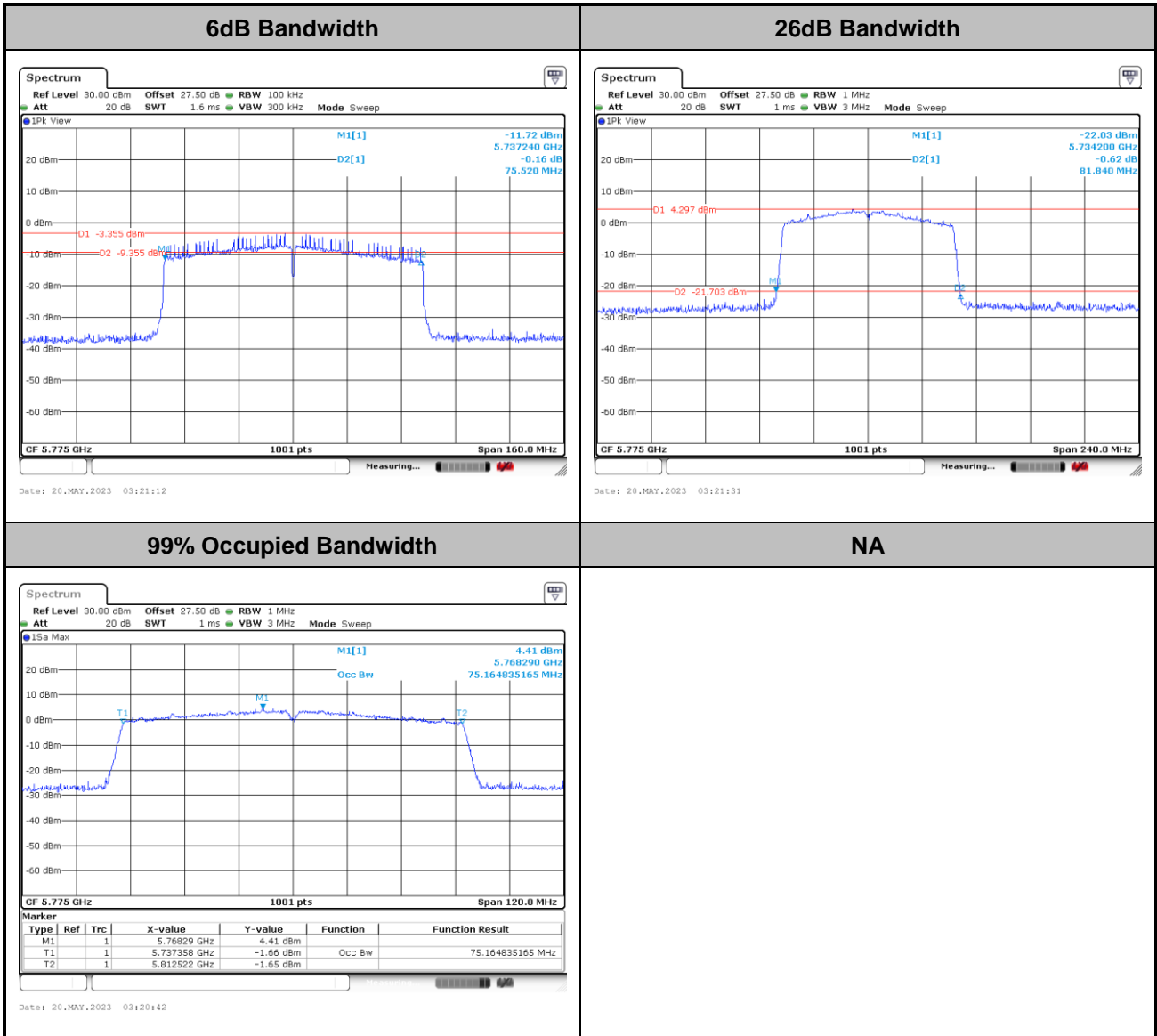
<802.11n HT40>



**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<802.11ac VHT80>



**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

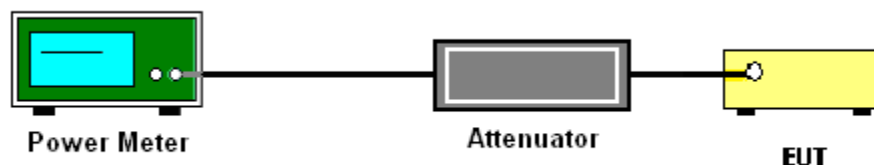
### 3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.





### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.3.3 Test Procedures

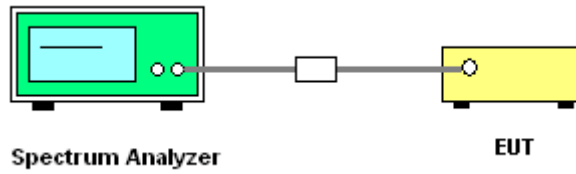
The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

##### # Method SA-3 #

(power averaging (rms) detection with max hold):

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
  - Set RBW = 300 kHz.
  - Set VBW  $\geq$  1 MHz.
  - Number of points in sweep  $\geq$  2 Span / RBW.
  - Add  $10 \log(500 \text{ kHz/RBW})$  to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement
  - Sweep time  $\leq$  (number of points in sweep)  $\times$  T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.  
Detector = power averaging (rms).
  - Trace mode = max hold.
  - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
  2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

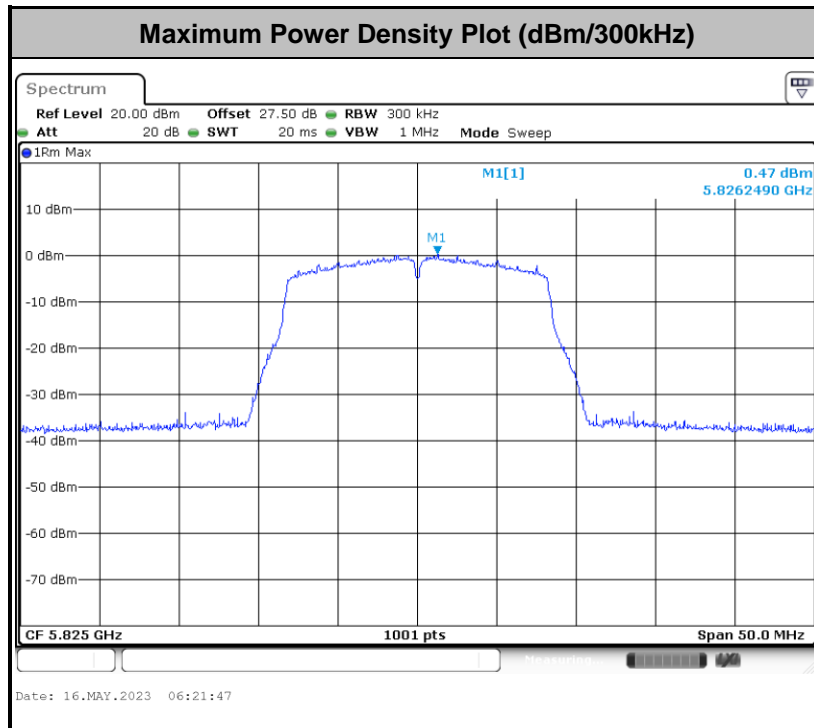
### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

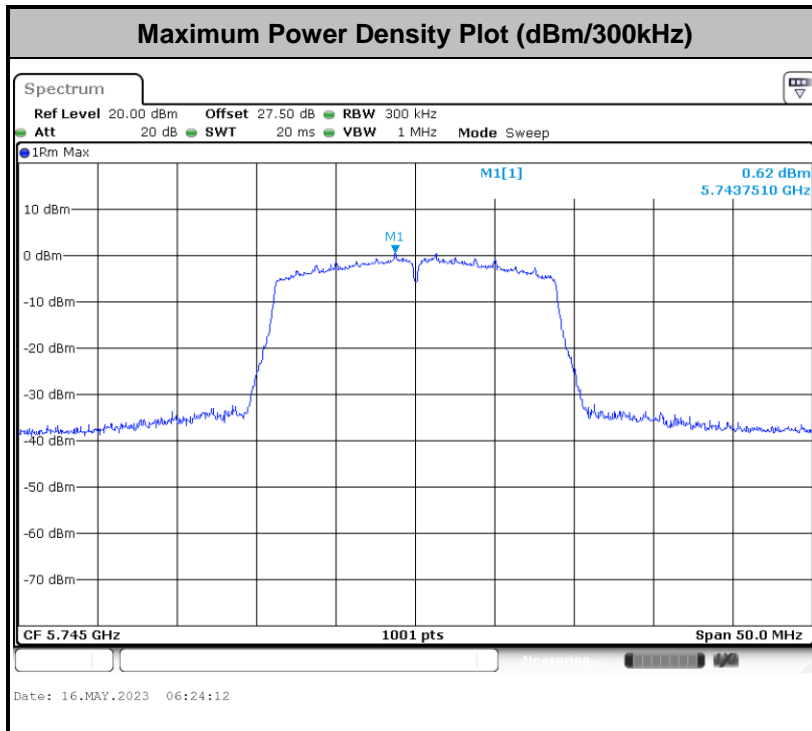
Please refer to Appendix A.

<802.11a>

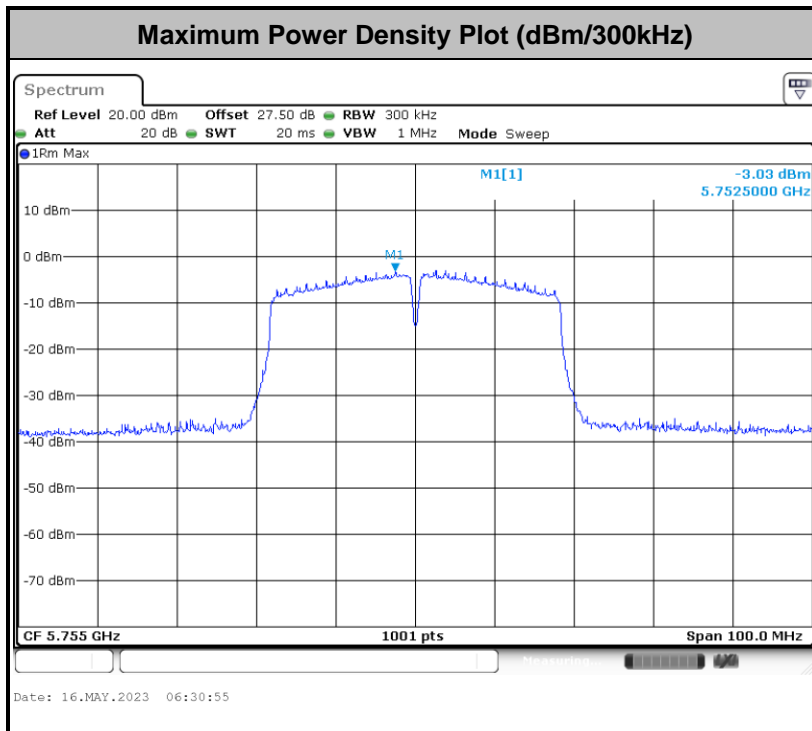




<802.11n HT20>

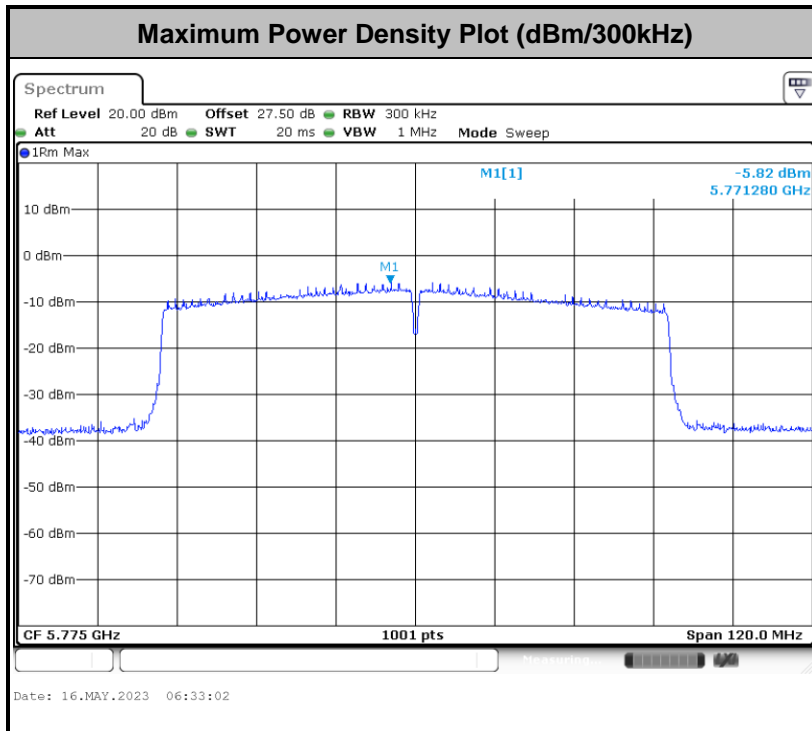


<802.11n HT40>





<802.11ac VHT80>





### 3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

#### 3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) 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.

(2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table,

Frequency (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:** The following formula is used to convert the EIRP to field strength.

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.



### 3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.4.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading.  
When there is no suspected emission found and the emission level is with at least 6 dB margin

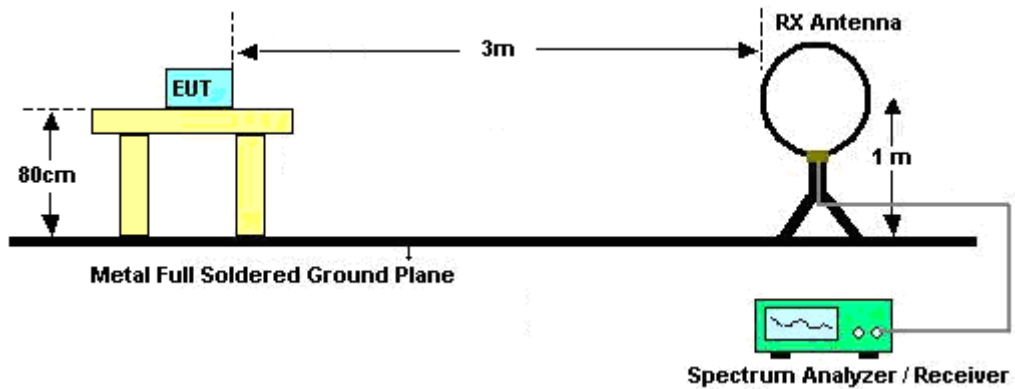
against QP limit line, the position is marked as “-”.

- Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies.

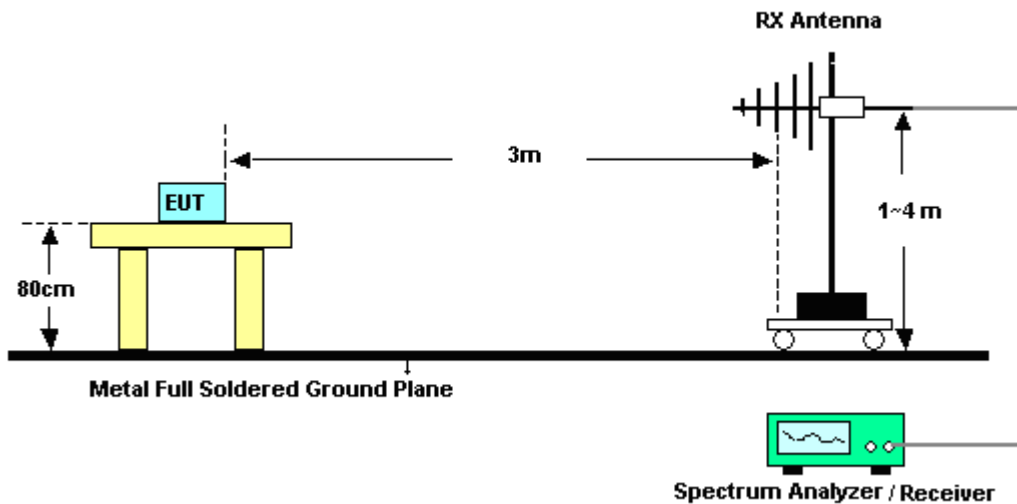
When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

### 3.4.4 Test Setup

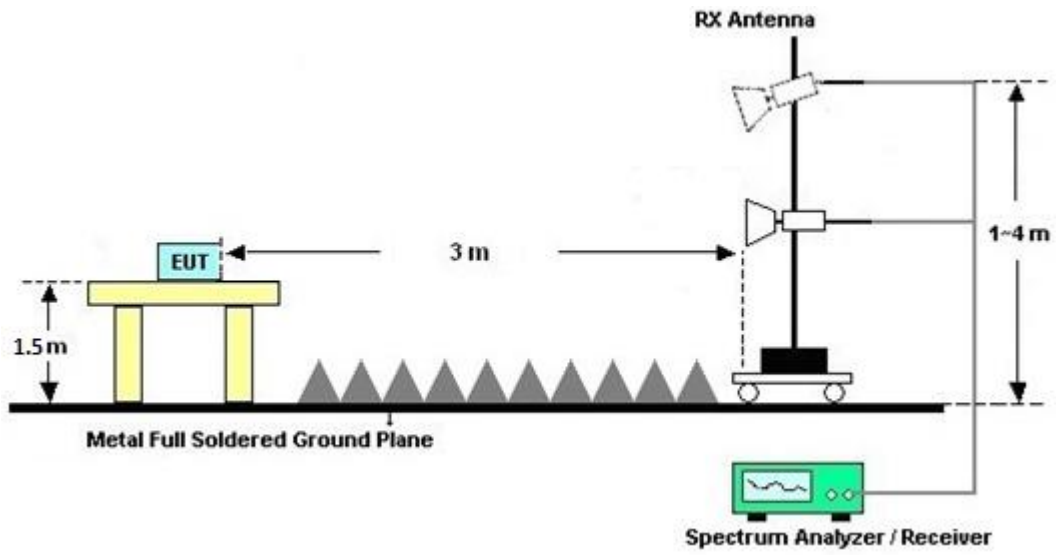
**For radiated emissions below 30MHz**



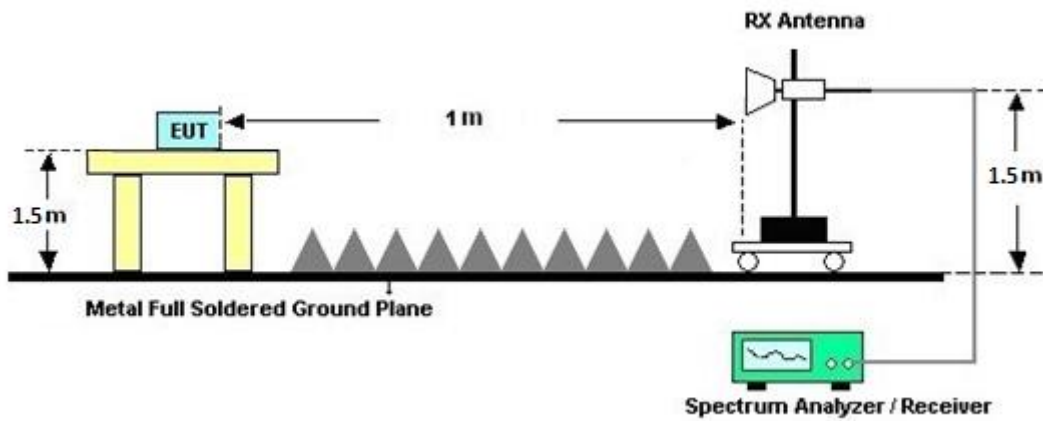
**For radiated emissions from 30MHz to 1GHz**



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz







### **3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)**

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

### **3.4.6 Test Result of Radiated Band Edges**

Please refer to Appendix C and D.

### **3.4.7 Duty Cycle**

Please refer to Appendix E.

### **3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic)**

Please refer to Appendix C and D.



### 3.5 AC Conducted Emission Measurement

#### 3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBµV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

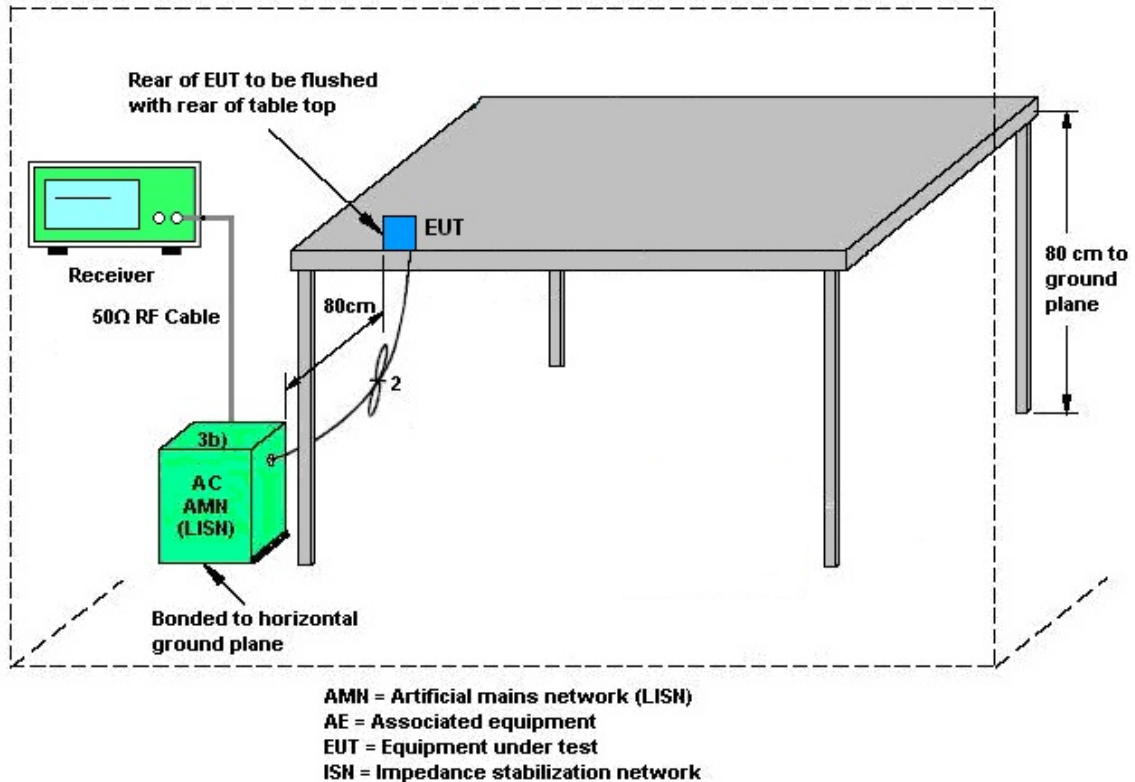
#### 3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

#### 3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.6 Antenna Requirements**

### **3.6.1 Standard Applicable**

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

### **3.6.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.



## 4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	May 10, 2023~ May 22, 2023	Sep. 19, 2023	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	37059 & 01	30MHz~1GHz	Nov. 10, 2022	May 10, 2023~ May 22, 2023	Nov. 09, 2023	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Aug. 09, 2022	May 10, 2023~ May 22, 2023	Aug. 08, 2023	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	00993	18GHz~40GHz	Nov. 24, 2022	May 10, 2023~ May 22, 2023	Nov. 23, 2023	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 21, 2023	May 10, 2023~ May 22, 2023	Mar. 20, 2024	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 24, 2022	May 10, 2023~ May 22, 2023	May 23, 2023	Radiation (03CH12-HY)
Preamplifier	E-INSTRUME NT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz~18GHz	Dec. 21, 2022	May 10, 2023~ May 22, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 07, 2022	May 10, 2023~ May 22, 2023	Dec. 06, 2023	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	May 10, 2023~ May 22, 2023	Jan. 09, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-12 SS	SN2	1.2GHz Low Pass Filter	Mar. 13, 2023	May 10, 2023~ May 22, 2023	Mar. 12, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 0ST	SN2	3GHz High Pass Filter	Jul. 11, 2022	May 10, 2023~ May 22, 2023	Jul. 10, 2023	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000- 40ST	SN2	6.75GHz High Pass Filter	Mar. 13, 2023	May 10, 2023~ May 22, 2023	Mar. 12, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	May 10, 2023~ May 22, 2023	Mar. 14, 2024	Radiation (03CH12-HY)
RF Cable	TUYUE	RG142D-NmB NCm-3000	H0620	9kHz~30MHz	Mar. 14, 2023	May 10, 2023~ May 22, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	May 10, 2023~ May 22, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/4	30MHz~18GHz	Dec. 20, 2022	May 10, 2023~ May 22, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	May 10, 2023~ May 22, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	May 10, 2023~ May 22, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	May 10, 2023~ May 22, 2023	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 10, 2023~ May 22, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	May 10, 2023~ May 22, 2023	N/A	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 13, 2022	Apr. 27, 2023~ May 20, 2023	Dec. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101905	10Hz - 40GHz(amp)	Aug. 03, 2022	Apr. 27, 2023~ May 20, 2023	Aug. 02, 2023	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Apr. 21, 2023	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 21, 2023	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 01, 2022	Apr. 21, 2023	Oct. 31, 2023	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 15, 2023	Apr. 21, 2023	Mar. 14, 2024	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 05, 2023	Apr. 21, 2023	Mar. 04, 2024	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 13, 2023	Apr. 21, 2023	Mar. 12, 2024	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 06, 2022	Apr. 21, 2023	Oct. 05, 2023	Conduction (CO07-HY)



## 5 Measurement Uncertainty

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.46 dB
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	6.40 dB
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.40 dB
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### Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.60 dB
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.20 dB
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**Appendix A. Test Result of Conducted Test Items**

Test Engineer:	Hank Hsu	Temperature:	21~25	°C
Test Date:	2023/4/27~2023/5/20	Relative Humidity:	51~54	%



**TEST RESULTS DATA**  
**6dB and 26dB EBW and 99% OBW**

U-NII-3 single antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	1	149	5745	16.68	-	20.40	-	15.20	-	0.5	Pass
11a	6Mbps	1	157	5785	16.68	-	20.34	-	15.25	-	0.5	Pass
11a	6Mbps	1	165	5825	16.68	-	20.22	-	15.20	-	0.5	Pass
HT20	MCS0	1	149	5745	17.78	-	20.58	-	15.15	-	0.5	Pass
HT20	MCS0	1	157	5785	17.78	-	20.58	-	15.25	-	0.5	Pass
HT20	MCS0	1	165	5825	17.73	-	20.52	-	15.20	-	0.5	Pass
HT40	MCS0	1	151	5755	36.46	-	40.44	-	35.28	-	0.5	Pass
HT40	MCS0	1	159	5795	36.56	-	40.56	-	35.28	-	0.5	Pass
VHT80	MCS0	1	155	5775	75.16	-	81.84	-	75.52	-	0.5	Pass

**TEST RESULTS DATA**  
**Average Power Table**

U-NII-3 single antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)		FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	13.20	-	30.00	-	3.07	-	Pass
11a	6Mbps	1	157	5785	13.40	-	30.00	-	3.07	-	Pass
11a	6Mbps	1	165	5825	13.50	-	30.00	-	3.07	-	Pass
HT20	MCS0	1	149	5745	13.50	-	30.00	-	3.07	-	Pass
HT20	MCS0	1	157	5785	13.30	-	30.00	-	3.07	-	Pass
HT20	MCS0	1	165	5825	13.40	-	30.00	-	3.07	-	Pass
HT40	MCS0	1	151	5755	13.00	-	30.00	-	3.07	-	Pass
HT40	MCS0	1	159	5795	12.80	-	30.00	-	3.07	-	Pass
VHT20	MCS0	1	149	5745	13.40	-	30.00	-	3.07	-	Pass
VHT20	MCS0	1	157	5785	13.20	-	30.00	-	3.07	-	Pass
VHT20	MCS0	1	165	5825	13.30	-	30.00	-	3.07	-	Pass
VHT40	MCS0	1	151	5755	12.90	-	30.00	-	3.07	-	Pass
VHT40	MCS0	1	159	5795	12.70	-	30.00	-	3.07	-	Pass
VHT80	MCS0	1	155	5775	12.90	-	30.00	-	3.07	-	Pass

**TEST RESULTS DATA**  
**Power Spectral Density**

U-NII-3 single antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)		Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	1	149	5745	2.22	-	2.33	-	30.00	-	3.07	-	Pass
11a	6Mbps	1	157	5785	2.22	-	2.38	-	30.00	-	3.07	-	Pass
11a	6Mbps	1	165	5825	2.22	-	2.69	-	30.00	-	3.07	-	Pass
HT20	MCS0	1	149	5745	2.22	-	2.84	-	30.00	-	3.07	-	Pass
HT20	MCS0	1	157	5785	2.22	-	2.73	-	30.00	-	3.07	-	Pass
HT20	MCS0	1	165	5825	2.22	-	2.78	-	30.00	-	3.07	-	Pass
HT40	MCS0	1	151	5755	2.22	-	-0.81	-	30.00	-	3.07	-	Pass
HT40	MCS0	1	159	5795	2.22	-	-1.09	-	30.00	-	3.07	-	Pass
VHT80	MCS0	1	155	5775	2.22	-	-3.60	-	30.00	-	3.07	-	Pass



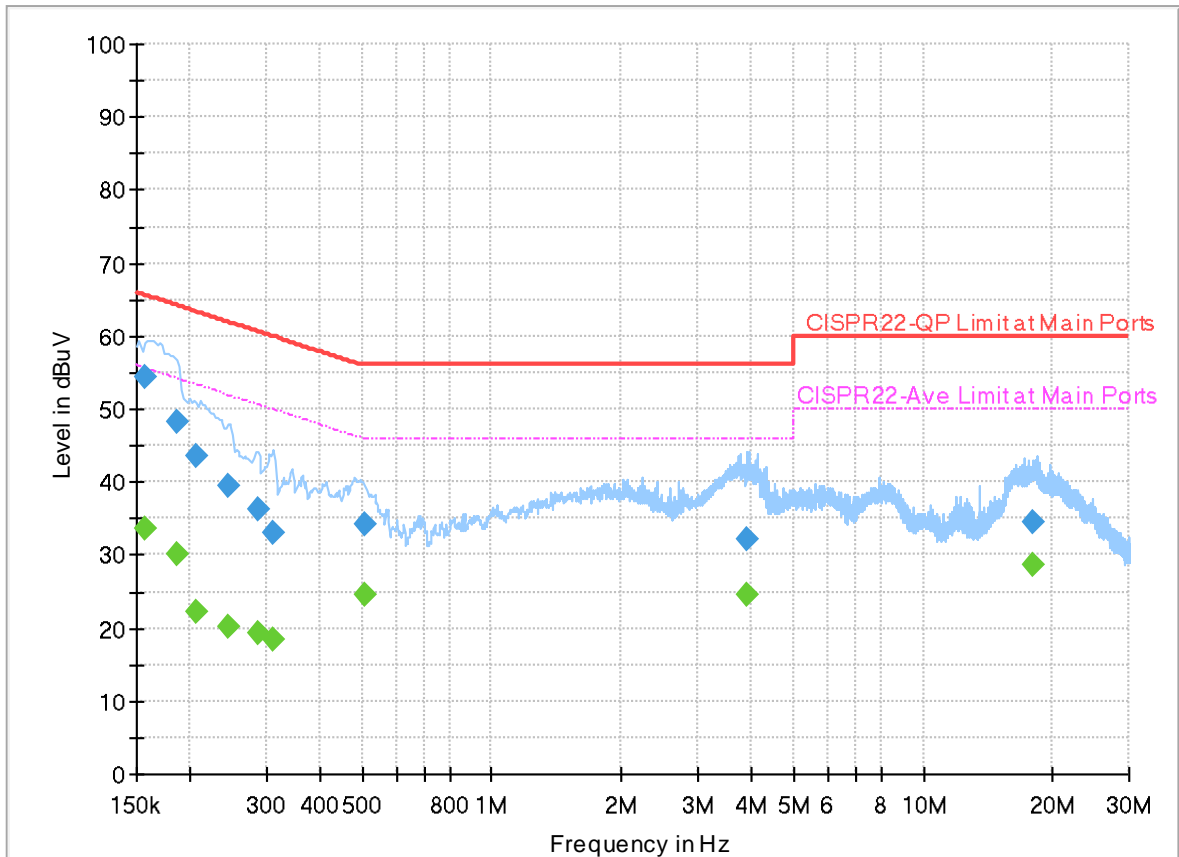
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	20.3~23°C
		Relative Humidity :	65.8~72.4%

# EUT Information

Report NO : 333113  
 Test Mode : Mode 3  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



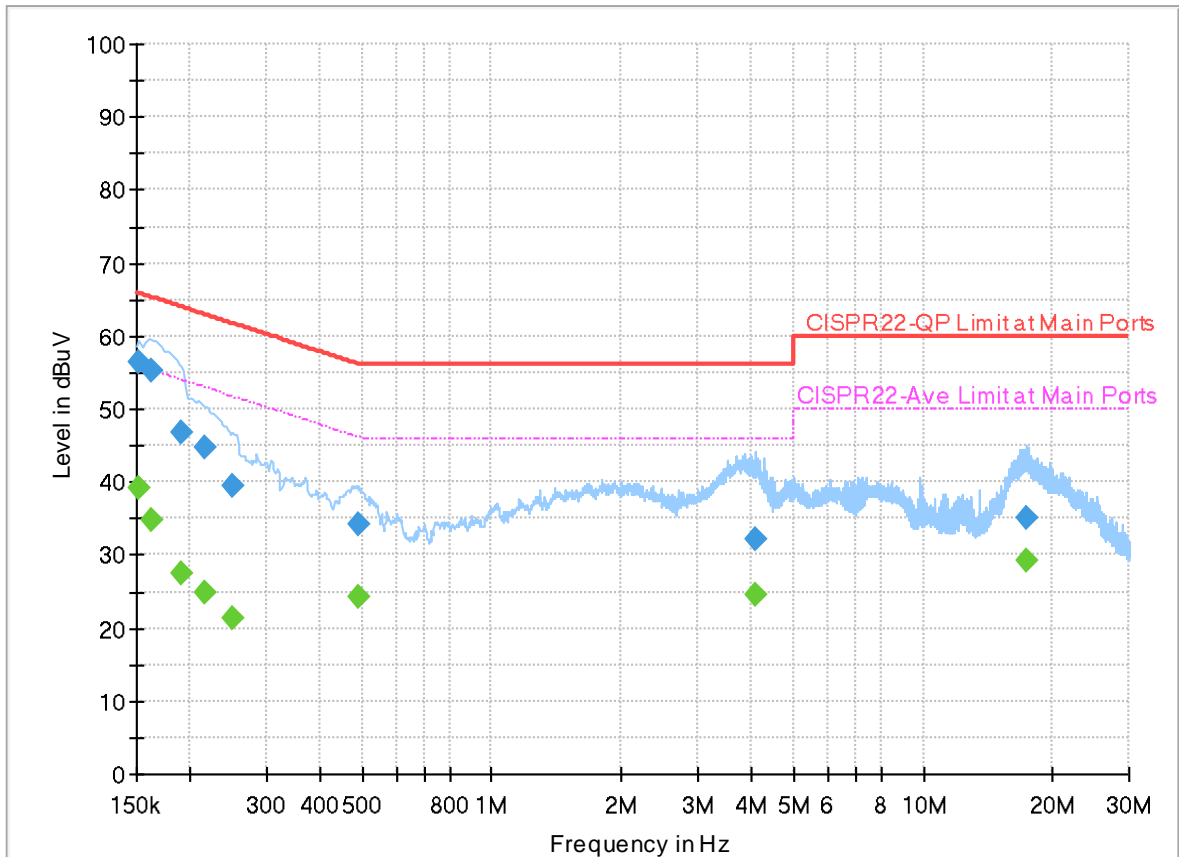
## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	33.77	55.63	21.86	L1	OFF	19.9
0.156750	54.24	---	65.63	11.39	L1	OFF	19.9
0.186000	---	30.06	54.21	24.15	L1	OFF	19.9
0.186000	48.12	---	64.21	16.09	L1	OFF	19.9
0.207240	---	22.29	53.32	31.03	L1	OFF	20.0
0.207240	43.50	---	63.32	19.82	L1	OFF	20.0
0.244500	---	20.21	51.94	31.73	L1	OFF	20.0
0.244500	39.60	---	61.94	22.34	L1	OFF	20.0
0.286260	---	19.43	50.63	31.20	L1	OFF	20.0
0.286260	36.28	---	60.63	24.35	L1	OFF	20.0
0.311730	---	18.40	49.92	31.52	L1	OFF	20.0
0.311730	33.15	---	59.92	26.77	L1	OFF	20.0
0.506130	---	24.45	46.00	21.55	L1	OFF	20.0
0.506130	34.27	---	56.00	21.73	L1	OFF	20.0
3.891750	---	24.44	46.00	21.56	L1	OFF	20.0
3.891750	32.10	---	56.00	23.90	L1	OFF	20.0
18.033090	---	28.68	50.00	21.32	L1	OFF	20.2
18.033090	34.40	---	60.00	25.60	L1	OFF	20.2

# EUT Information

Report NO : 333113  
 Test Mode : Mode 3  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.151215	---	39.24	55.93	16.69	N	OFF	20.0
0.151215	56.52	---	65.93	9.41	N	OFF	20.0
0.163140	---	34.67	55.30	20.63	N	OFF	20.0
0.163140	55.38	---	65.30	9.92	N	OFF	20.0
0.190590	---	27.50	54.01	26.51	N	OFF	20.0
0.190590	46.72	---	64.01	17.29	N	OFF	20.0
0.215250	---	24.93	53.00	28.07	N	OFF	20.0
0.215250	44.63	---	63.00	18.37	N	OFF	20.0
0.250530	---	21.42	51.74	30.32	N	OFF	20.0
0.250530	39.47	---	61.74	22.27	N	OFF	20.0
0.491730	---	24.28	46.14	21.86	N	OFF	20.0
0.491730	34.16	---	56.14	21.98	N	OFF	20.0
4.076790	---	24.45	46.00	21.55	N	OFF	20.0
4.076790	32.04	---	56.00	23.96	N	OFF	20.0
17.346300	---	29.11	50.00	20.89	N	OFF	20.2
17.346300	35.19	---	60.00	24.81	N	OFF	20.2



### Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Fan, Tim Lee and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI Ant.	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 149 5745MHz		5627.4	51.56	-16.64	68.2	41.67	33.05	10.43	33.59	103	34	P	H	
		5695.4	53.14	-48.67	101.81	42.86	33.37	10.51	33.6	103	34	P	H	
		5717.2	54.39	-55.63	110.02	43.96	33.5	10.53	33.6	103	34	P	H	
		5724.4	59.59	-61.24	120.83	49.1	33.55	10.54	33.6	103	34	P	H	
	*	5745	104.08	-	-	93.44	33.67	10.57	33.6	103	34	P	H	
	*	5745	97.56	-	-	86.92	33.67	10.57	33.6	103	34	A	H	
														H
														H
			5640.4	52.81	-15.39	68.2	42.87	33.08	10.45	33.59	112	209	P	V
			5687.8	53.85	-42.35	96.2	43.62	33.33	10.5	33.6	112	209	P	V
			5707.8	53.95	-53.44	107.39	43.58	33.45	10.52	33.6	112	209	P	V
			5721.4	56.12	-57.87	113.99	45.65	33.53	10.54	33.6	112	209	P	V
	*	5745	99.57	-	-	88.93	33.67	10.57	33.6	112	209	P	V	
	*	5745	93.18	-	-	82.54	33.67	10.57	33.6	112	209	A	V	
														V
														V



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5626.2	52.29	-15.91	68.2	42.4	33.05	10.43	33.59	127	36	P	H
		5692.6	53.56	-46.18	99.74	43.29	33.36	10.51	33.6	127	36	P	H
		5708.4	53.29	-54.26	107.55	42.92	33.45	10.52	33.6	127	36	P	H
		5723.2	52.96	-65.14	118.1	42.48	33.54	10.54	33.6	127	36	P	H
	*	5785	104.53	-	-	93.69	33.84	10.61	33.61	127	36	P	H
	*	5785	98.25	-	-	87.41	33.84	10.61	33.61	127	36	A	H
		5853.2	53.11	-61.79	114.9	42.04	34.01	10.68	33.62	127	36	P	H
		5873.2	53.47	-52.23	105.7	42.3	34.09	10.7	33.62	127	36	P	H
		5877.4	53.77	-49.65	103.42	42.58	34.11	10.7	33.62	127	36	P	H
		5940.6	53.7	-14.5	68.2	42.36	34.2	10.76	33.62	127	36	P	H
													H
													H
<b>802.11a</b>													
<b>CH 157</b>													
<b>5785MHz</b>		5641	51.25	-16.95	68.2	41.31	33.08	10.45	33.59	127	212	P	V
		5697.8	53.04	-50.54	103.58	42.74	33.39	10.51	33.6	127	212	P	V
		5715.4	52.37	-57.14	109.51	41.95	33.49	10.53	33.6	127	212	P	V
		5725	52.65	-69.55	122.2	42.16	33.55	10.54	33.6	127	212	P	V
	*	5785	98.95	-	-	88.11	33.84	10.61	33.61	127	212	P	V
	*	5785	92.3	-	-	81.46	33.84	10.61	33.61	127	212	A	V
		5850.6	52.38	-68.45	120.83	41.32	34	10.68	33.62	127	212	P	V
		5867	52.9	-54.54	107.44	41.76	34.07	10.69	33.62	127	212	P	V
		5893.8	53.6	-37.65	91.25	42.33	34.18	10.71	33.62	127	212	P	V
		5934.6	53.55	-14.65	68.2	42.22	34.2	10.75	33.62	127	212	P	V
													V
													V





WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 165 5825MHz	*	5825	103.9	-	-	92.91	33.95	10.65	33.61	136	35	P	H	
	*	5825	98.16	-	-	87.17	33.95	10.65	33.61	136	35	A	H	
		5854.8	57.73	-53.53	111.26	46.65	34.02	10.68	33.62	136	35	P	H	
		5857.8	54.51	-55.5	110.01	43.42	34.03	10.68	33.62	136	35	P	H	
		5906.8	54.6	-27.03	81.63	43.29	34.2	10.73	33.62	136	35	P	H	
		5937.8	54.29	-13.91	68.2	42.96	34.2	10.75	33.62	136	35	P	H	
														H
														H
	*	5825	99.84	-	-	88.85	33.95	10.65	33.61	100	214	P	V	
	*	5825	93.4	-	-	82.41	33.95	10.65	33.61	100	214	A	V	
		5853.2	53.27	-61.63	114.9	42.2	34.01	10.68	33.62	100	214	P	V	
		5857.4	53.38	-56.75	110.13	42.29	34.03	10.68	33.62	100	214	P	V	
		5899	53.83	-33.57	87.4	42.53	34.2	10.72	33.62	100	214	P	V	
		5950	53.63	-14.57	68.2	42.28	34.2	10.77	33.62	100	214	P	V	
														V
														V
														V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 149 5745MHz		11490	56.38	-17.62	74	66.41	38.92	17.14	66.09	214	313	P	H	
		11490	45.57	-8.43	54	55.6	38.92	17.14	66.09	214	313	A	H	
		17235	60.57	-7.63	68.2	67.18	37.8	22.42	66.83	100	28	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11490	56.08	-17.92	74	66.11	38.92	17.14	66.09	100	307	P	V
			11490	45.73	-8.27	54	55.76	38.92	17.14	66.09	100	307	A	V
			17235	57.14	-11.06	68.2	63.75	37.8	22.42	66.83	388	35	P	V
														V
														V
														V
														V
														V
													V	
													V	



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11a CH 157 5785MHz		11570	56.71	-17.29	74	66.79	38.76	17.2	66.04	209	311	P	H	
		11570	46.05	-7.95	54	56.13	38.76	17.2	66.04	209	311	A	H	
		17355	60.71	-7.49	68.2	67.36	38.02	22.49	67.16	100	27	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11570	56.06	-17.94	74	66.14	38.76	17.2	66.04	100	306	P	V
			11570	46.05	-7.95	54	56.13	38.76	17.2	66.04	100	306	A	V
			17355	57	-11.2	68.2	63.65	38.02	22.49	67.16	397	35	P	V
														V
														V
														V
														V
													V	
													V	
													V	



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11a CH 165 5825MHz		11650	56.88	-17.12	74	66.96	38.65	17.27	66	208	314	P	H	
		11650	45.47	-8.53	54	55.55	38.65	17.27	66	208	314	A	H	
		17475	59.27	-8.93	68.2	65.86	38.35	22.55	67.49	100	25	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11650	55.2	-18.8	74	65.28	38.65	17.27	66	100	332	P	V
			11650	44.19	-9.81	54	54.27	38.65	17.27	66	100	332	A	V
			17475	58.72	-9.48	68.2	65.31	38.35	22.55	67.49	398	34	P	V
														V
														V
														V
														V
														V
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 149 5745MHz		5630	51.9	-16.3	68.2	42	33.06	10.43	33.59	100	51	P	H	
		5692.8	53.83	-46.06	99.89	43.56	33.36	10.51	33.6	100	51	P	H	
		5713.8	59.23	-49.84	109.07	48.82	33.48	10.53	33.6	100	51	P	H	
		5722	56.11	-59.25	115.36	45.64	33.53	10.54	33.6	100	51	P	H	
	*	5745	103.46	-	-	92.82	33.67	10.57	33.6	100	51	P	H	
	*	5745	97.52	-	-	86.88	33.67	10.57	33.6	100	51	A	H	
														H
														H
			5632.8	51.98	-16.22	68.2	42.06	33.07	10.44	33.59	101	96	P	V
			5687.2	52.47	-43.29	95.76	42.25	33.32	10.5	33.6	101	96	P	V
			5716.8	55.43	-54.48	109.91	45	33.5	10.53	33.6	101	96	P	V
			5724	56.5	-63.42	119.92	46.02	33.54	10.54	33.6	101	96	P	V
	*		5745	100.19	-	-	89.55	33.67	10.57	33.6	101	96	P	V
	*		5745	93.29	-	-	82.65	33.67	10.57	33.6	101	96	A	V
													V	
													V	



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5638.6	52.27	-15.93	68.2	42.34	33.08	10.44	33.59	137	37	P	H
		5693	52.89	-47.15	100.04	42.62	33.36	10.51	33.6	137	37	P	H
		5702.8	52.74	-53.25	105.99	42.4	33.42	10.52	33.6	137	37	P	H
		5724.6	53.39	-67.9	121.29	42.9	33.55	10.54	33.6	137	37	P	H
	*	5785	104.76	-	-	93.92	33.84	10.61	33.61	137	37	P	H
	*	5785	97.94	-	-	87.1	33.84	10.61	33.61	137	37	A	H
		5851.4	53.38	-65.63	119.01	42.31	34.01	10.68	33.62	137	37	P	H
		5863	55.45	-53.11	108.56	44.33	34.05	10.69	33.62	137	37	P	H
		5923.6	54.18	-15.05	69.23	42.86	34.2	10.74	33.62	137	37	P	H
		5944.2	54.86	-13.34	68.2	43.52	34.2	10.76	33.62	137	37	P	H
802.11n													H
HT20													H
CH 157		5602.8	52.44	-15.76	68.2	42.62	33.01	10.4	33.59	107	89	P	V
5785MHz		5667	52.44	-28.38	80.82	42.36	33.2	10.48	33.6	107	89	P	V
		5702.6	53.02	-52.91	105.93	42.68	33.42	10.52	33.6	107	89	P	V
		5722.6	53.87	-62.86	116.73	43.39	33.54	10.54	33.6	107	89	P	V
	*	5785	98.41	-	-	87.57	33.84	10.61	33.61	107	89	P	V
	*	5785	92.63	-	-	81.79	33.84	10.61	33.61	107	89	A	V
		5850.4	52.56	-68.73	121.29	41.5	34	10.68	33.62	107	89	P	V
		5856	53.3	-57.22	110.52	42.22	34.02	10.68	33.62	107	89	P	V
		5887.4	53.37	-42.62	95.99	42.13	34.15	10.71	33.62	107	89	P	V
		5927.4	53	-15.2	68.2	41.68	34.2	10.74	33.62	107	89	P	V
													V
													V



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 165 5825MHz	*	5825	103.85	-	-	92.86	33.95	10.65	33.61	136	37	P	H	
	*	5825	96.83	-	-	85.84	33.95	10.65	33.61	136	37	A	H	
		5851.4	55.29	-63.72	119.01	44.22	34.01	10.68	33.62	136	37	P	H	
		5855.2	54.19	-56.55	110.74	43.11	34.02	10.68	33.62	136	37	P	H	
		5900.6	54.44	-31.78	86.22	43.14	34.2	10.72	33.62	136	37	P	H	
		5946.2	54.01	-14.19	68.2	42.67	34.2	10.76	33.62	136	37	P	H	
														H
														H
	*	5825	98.69	-	-	87.7	33.95	10.65	33.61	114	254	P	V	
	*	5825	92.35	-	-	81.36	33.95	10.65	33.61	114	254	A	V	
		5855	54.08	-56.72	110.8	43	34.02	10.68	33.62	114	254	P	V	
		5859.4	54.93	-54.64	109.57	43.83	34.04	10.68	33.62	114	254	P	V	
		5918.4	53.69	-19.38	73.07	42.37	34.2	10.74	33.62	114	254	P	V	
		5926.4	53.69	-14.51	68.2	42.37	34.2	10.74	33.62	114	254	P	V	
														V
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 4 5725~5850MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149		11490	57.9	-16.1	74	67.93	38.92	17.14	66.09	206	316	P	H
		11490	45.53	-8.47	54	55.56	38.92	17.14	66.09	206	316	A	H
		17235	62.51	-5.69	68.2	69.12	37.8	22.42	66.83	100	26	P	H
													H
													H
													H
													H
													H
													H
													H
													H
	5745MHz		11490	58.22	-15.78	74	68.25	38.92	17.14	66.09	100	310	P
		11490	46.2	-7.8	54	56.23	38.92	17.14	66.09	100	310	A	V
		17235	51.62	-16.58	68.2	58.23	37.8	22.42	66.83	125	99	P	V
													V
													V
													V
													V
													V
													V
													V
													V





WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
802.11n HT20		11570	56.39	-17.61	74	66.47	38.76	17.2	66.04	206	314	P	H
		11570	45.93	-8.07	54	56.01	38.76	17.2	66.04	206	314	A	H
		17355	55.51	-12.69	68.2	62.16	38.02	22.49	67.16	153	185	P	H
													H
													H
													H
													H
													H
													H
													H
CH 157 5785MHz		11570	57.49	-16.51	74	67.57	38.76	17.2	66.04	100	308	P	V
		11570	46.34	-7.66	54	56.42	38.76	17.2	66.04	100	308	A	V
		17355	50.41	-17.79	68.2	57.06	38.02	22.49	67.16	-	-	P	V
													V
													V
													V
													V
													V
													V
													V



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 165 5825MHz		11650	55.69	-18.31	74	65.77	38.65	17.27	66	211	311	P	H	
		11650	45.34	-8.66	54	55.42	38.65	17.27	66	211	311	A	H	
		17475	54.78	-13.42	68.2	61.37	38.35	22.55	67.49	165	188	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11650	55.54	-18.46	74	65.62	38.65	17.27	66	100	310	P	V
			11650	44.96	-9.04	54	55.04	38.65	17.27	66	100	310	A	V
			17475	53.13	-15.07	68.2	59.72	38.35	22.55	67.49	126	93	P	V
														V
														V
														V
														V
														V
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.													



**Band 4 5725~5850MHz**  
**WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5605.6	52.95	-15.25	68.2	43.12	33.01	10.41	33.59	140	35	P	H
		5665.4	54.15	-25.48	79.63	44.08	33.19	10.48	33.6	140	35	P	H
		5719.8	58.84	-51.9	110.74	48.38	33.52	10.54	33.6	140	35	P	H
		5724	59.92	-60	119.92	49.44	33.54	10.54	33.6	140	35	P	H
	*	5755	101.15	-	-	90.46	33.72	10.58	33.61	140	35	P	H
	*	5755	94.39	-	-	83.7	33.72	10.58	33.61	140	35	A	H
		5853	52.98	-62.38	115.36	41.91	34.01	10.68	33.62	140	35	P	H
		5864	53.32	-54.96	108.28	42.19	34.06	10.69	33.62	140	35	P	H
		5887.6	54.14	-41.71	95.85	42.9	34.15	10.71	33.62	140	35	P	H
		5931.6	54.13	-14.07	68.2	42.8	34.2	10.75	33.62	140	35	P	H
<b>802.11n</b>													H
<b>HT40</b>													H
<b>CH 151</b>		5648.6	53.12	-15.08	68.2	43.15	33.1	10.46	33.59	116	209	P	V
<b>5755MHz</b>		5694.6	54.6	-46.62	101.22	44.32	33.37	10.51	33.6	116	209	P	V
		5712.8	54.92	-53.87	108.79	44.51	33.48	10.53	33.6	116	209	P	V
		5722.4	53.6	-62.67	116.27	43.13	33.53	10.54	33.6	116	209	P	V
	*	5755	96.77	-	-	86.08	33.72	10.58	33.61	116	209	P	V
	*	5755	89.96	-	-	79.27	33.72	10.58	33.61	116	209	A	V
		5852.4	53.53	-63.2	116.73	42.46	34.01	10.68	33.62	116	209	P	V
		5870.8	54.47	-51.9	106.37	43.32	34.08	10.69	33.62	116	209	P	V
		5912.4	54.16	-23.33	77.49	42.85	34.2	10.73	33.62	116	209	P	V
		5930.6	53.27	-14.93	68.2	41.94	34.2	10.75	33.62	116	209	P	V
													V
													V



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBµV/m )	Margin ( dB )	Limit Line ( dBµV/m )	Read Level ( dBµV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5608.8	52.3	-15.9	68.2	42.46	33.02	10.41	33.59	138	35	P	H
		5678.6	53.99	-35.41	89.4	43.83	33.27	10.49	33.6	138	35	P	H
		5718	52.5	-57.74	110.24	42.05	33.51	10.54	33.6	138	35	P	H
		5720.2	54.22	-57.04	111.26	43.76	33.52	10.54	33.6	138	35	P	H
	*	5795	100.94	-	-	90.05	33.88	10.62	33.61	138	35	P	H
	*	5795	94.04	-	-	83.15	33.88	10.62	33.61	138	35	A	H
		5854.8	52.88	-58.38	111.26	41.8	34.02	10.68	33.62	138	35	P	H
		5865.8	53.71	-54.06	107.77	42.58	34.06	10.69	33.62	138	35	P	H
		5889	54.09	-40.72	94.81	42.84	34.16	10.71	33.62	138	35	P	H
		5927.6	53.26	-14.94	68.2	41.94	34.2	10.74	33.62	138	35	P	H
802.11n													H
HT40													H
CH 159		5640.8	52.43	-15.77	68.2	42.49	33.08	10.45	33.59	100	208	P	V
5795MHz		5699.4	54.16	-50.6	104.76	43.85	33.4	10.51	33.6	100	208	P	V
		5709.2	53.01	-54.77	107.78	42.62	33.46	10.53	33.6	100	208	P	V
		5723.2	53.3	-64.8	118.1	42.82	33.54	10.54	33.6	100	208	P	V
	*	5795	97.1	-	-	86.21	33.88	10.62	33.61	100	208	P	V
	*	5795	89.79	-	-	78.9	33.88	10.62	33.61	100	208	A	V
		5853.8	53.72	-59.82	113.54	42.64	34.02	10.68	33.62	100	208	P	V
		5859.6	53.96	-55.55	109.51	42.86	34.04	10.68	33.62	100	208	P	V
		5882.6	54.39	-45.17	99.56	43.18	34.13	10.7	33.62	100	208	P	V
		5935	53.44	-14.76	68.2	42.11	34.2	10.75	33.62	100	208	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT40 CH 151 5755MHz		11510	53.36	-20.64	74	63.39	38.88	17.16	66.07	210	316	P	H	
		11510	43.99	-10.01	54	54.02	38.88	17.16	66.07	210	316	A	H	
		17265	52.36	-15.84	68.2	59.04	37.8	22.44	66.92	158	195	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11510	47.87	-26.13	74	57.9	38.88	17.16	66.07	-	-	P	V
			17265	50.58	-17.62	68.2	57.26	37.8	22.44	66.92	-	-	P	V
														V
														V
														V
														V
														V
													V	



WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT40 CH 159 5795MHz		11590	53.76	-20.24	74	63.85	38.72	17.22	66.03	210	313	P	H	
		11590	43.7	-10.3	54	53.79	38.72	17.22	66.03	210	313	A	H	
		17385	54.29	-13.91	68.2	60.88	38.14	22.51	67.24	161	189	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11590	47.61	-26.39	74	57.7	38.72	17.22	66.03	-	-	P	V
			17385	50.09	-18.11	68.2	56.68	38.14	22.51	67.24	-	-	P	V
														V
														V
														V
														V
														V
														V
													V	
<b>Remark</b>	<ol style="list-style-type: none"> <li>No other spurious found.</li> <li>All results are PASS against Peak and Average limit line.</li> <li>The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.</li> </ol>													



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )
		5623.4	53.26	-14.94	68.2	43.37	33.05	10.43	33.59	100	352	P	H
		5690.6	65.78	-32.49	98.27	55.54	33.34	10.5	33.6	100	352	P	H
		5719.6	71.33	-39.36	110.69	60.87	33.52	10.54	33.6	100	352	P	H
		5724.8	71.99	-49.75	121.74	61.5	33.55	10.54	33.6	100	352	P	H
	*	5775	98.38	-	-	87.59	33.8	10.6	33.61	100	352	P	H
	*	5775	92.31	-	-	81.52	33.8	10.6	33.61	100	352	A	H
		5854.2	64.85	-47.77	112.62	53.77	34.02	10.68	33.62	100	352	P	H
		5857.6	61.97	-48.1	110.07	50.88	34.03	10.68	33.62	100	352	P	H
		5875.6	56.78	-47.97	104.75	45.6	34.1	10.7	33.62	100	352	P	H
		5945.6	54.77	-13.43	68.2	43.43	34.2	10.76	33.62	100	352	P	H
													H
													H
<b>802.11ac VHT80 CH 155 5775MHz</b>		5645.8	53.05	-15.15	68.2	43.1	33.09	10.45	33.59	100	207	P	V
		5680.4	61.15	-29.58	90.73	50.98	33.28	10.49	33.6	100	207	P	V
		5719.2	66.69	-43.89	110.58	56.23	33.52	10.54	33.6	100	207	P	V
		5721	67.37	-45.71	113.08	56.9	33.53	10.54	33.6	100	207	P	V
	*	5775	93.22	-	-	82.43	33.8	10.6	33.61	100	207	P	V
	*	5775	87.28	-	-	76.49	33.8	10.6	33.61	100	207	A	V
		5854.8	60	-51.26	111.26	48.92	34.02	10.68	33.62	100	207	P	V
		5855.6	58.86	-51.77	110.63	47.78	34.02	10.68	33.62	100	207	P	V
		5913.6	55.28	-21.33	76.61	43.97	34.2	10.73	33.62	100	207	P	V
		5947.8	54.56	-13.64	68.2	43.22	34.2	10.76	33.62	100	207	P	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Margin ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11ac VHT80 CH 155 5775MHz		11550	47.88	-26.12	74	57.94	38.8	17.19	66.05	-	-	P	H	
		17325	50.35	-17.85	68.2	57.05	37.9	22.48	67.08	-	-	P	H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
													H	
			11550	47.89	-26.11	74	57.95	38.8	17.19	66.05	-	-	P	V
			17325	50.85	-17.35	68.2	57.55	37.9	22.48	67.08	-	-	P	V
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
													V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.													





Emission above 18GHz

WIFI 802.11n HT20 (SHF @ 1m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11n HT20 SHF		26447.1	40.34	-27.86	68.2	39.7	39.42	14.04	52.82	-	-	P	H
		39989	50.92	-23.08	74	38.26	44.5	19.88	51.72	-	-	P	H
													H
													H
													H
													H
													H
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													H
													H
													H
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													H
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													H
													H
													H
		28356.3	40.43	-27.77	68.2	39.31	40.21	14.94	54.03	-	-	P	V
		39945	50.67	-23.33	74	38.09	44.5	19.88	51.8	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V

**Remark**

- No other spurious found.
- All results are PASS against limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.



Emission below 1GHz

5GHz WIFI 802.11n HT20 (LF @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)	
802.11n HT20 LF		169.68	28.64	-14.86	43.5	40.66	15.83	1.86	29.71	-	-	P	H	
		302.57	29.71	-16.29	46	37.31	19.3	2.57	29.47	-	-	P	H	
		730.34	36.18	-9.82	46	33.07	27.72	3.98	28.59	-	-	P	H	
		839.95	37.02	-8.98	46	32.21	29.1	4.29	28.58	-	-	P	H	
		902.03	38.55	-7.45	46	33.12	29.3	4.6	28.47	-	-	P	H	
		949.56	36.64	-9.36	46	29.15	31.08	4.65	28.24	-	-	P	H	
														H
														H
														H
														H
														H
														H
			31.94	33.81	-6.19	40	38.75	24.22	0.61	29.77	-	-	P	V
			47.46	30	-10	40	43.01	15.82	0.98	29.81	-	-	P	V
			164.83	28.5	-15	43.5	40.1	16.22	1.85	29.67	-	-	P	V
			492.69	32.78	-13.22	46	34.67	23.9	3.26	29.05	-	-	P	V
			839.95	35.16	-10.84	46	30.35	29.1	4.29	28.58	-	-	P	V
			903	38.39	-7.61	46	32.96	29.3	4.6	28.47	-	-	P	V
														V
														V
													V	
													V	
													V	
													V	

**Remark**

- No other spurious found.
- All results are PASS against limit line.
- The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.



**Note symbol**

*	<b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is <b>Margin</b> line.
P/A	<b>Peak</b> or <b>Average</b>
H/V	<b>Horizontal</b> or <b>Vertical</b>



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBµV/m )	( dB )	( dBµV/m )	( dBµV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11a CH 149 5745MHz		5650	55.45	-12.75	68.2	54.51	32.22	4.58	35.86	103	308	P	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBµV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)
3. Margin(dB) = Level(dBµV/m) – Limit Line(dBµV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBµV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBµV) – 35.86 (dB)  
= 55.45 (dBµV/m)
2. Margin(dB)  
= Level(dBµV/m) – Limit Line(dBµV/m)  
= 55.45(dBµV/m) – 68.2(dBµV/m)  
= -12.75 (dB)

Peak measured complies with the limit line, so test result is "PASS".



## Appendix D. Radiated Spurious Emission Plots

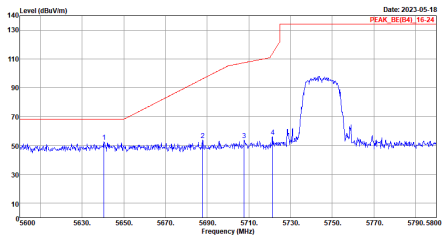
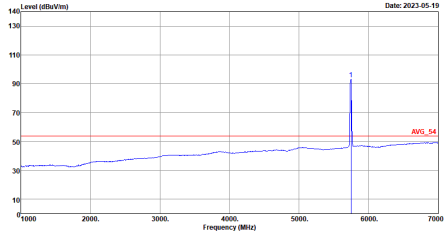
Test Engineer :	Jesse Fan, Tim Lee and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%



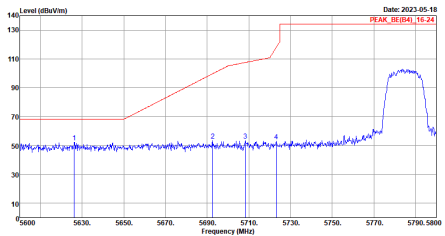
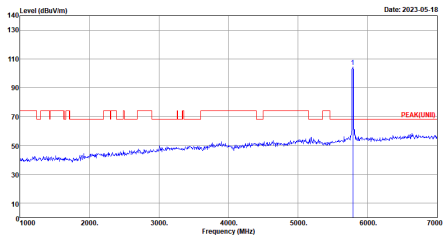
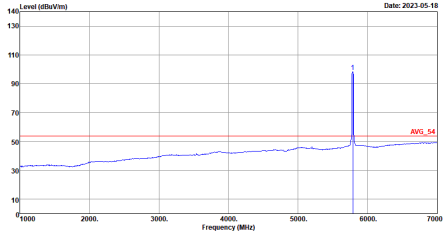
**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH12-HY            Condition : PEAK_BE(B4)_16-24 3m HORN_91200_02114 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH12-HY            Condition : PEAK(FUNDI)_3m HORN_91200_02114 HORIZONTAL            : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
<b>Avg</b>	<b>Left blank</b>	<p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL            : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH149 5745MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2023-05-18 PEAK_BE(4)_15.24</p> <p>Site : 03CH12-HY Condition : PEAK_BE(4)_15-24 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-05-18 PEAK(UNI)</p> <p>Site : 03CH12-HY Condition : PEAK(UNI) 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Date: 2023-05-18 AVG_54</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 <p>Date: 2023-05-18 PEAK_BE04_15.24</p> <p>Site : 03CH12-HY Condition : PEAK_BE04_15-24 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-05-18 PEAK(FUN1)</p> <p>Site : 03CH12-HY Condition : PEAK(FUN1) 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Date: 2023-05-18 AVG_04</p> <p>Site : 03CH12-HY Condition : AVG_04 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>





<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11a CH157 5785MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH12-14Y Condition : PEAK_08104_15-24 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<b>Left blank</b>

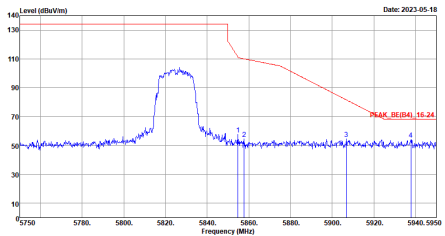
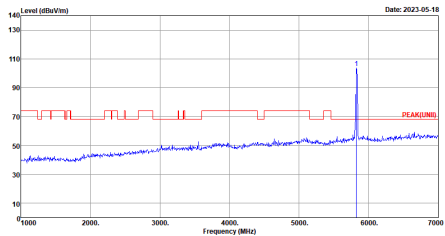
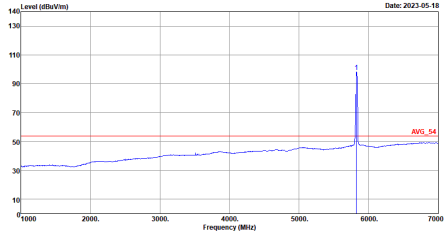


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH12-HY Condition : PEAK_BE(4)_15-24 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH12-HY Condition : PEAK(UNI) 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		<p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH157 5785MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH12-14Y Condition : PEAK_0E10A4_15-24 3m HORN_9120D_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



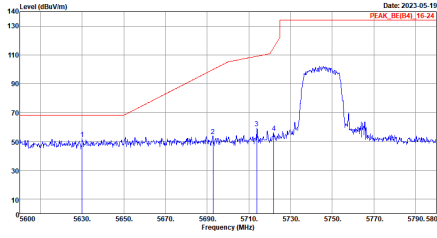
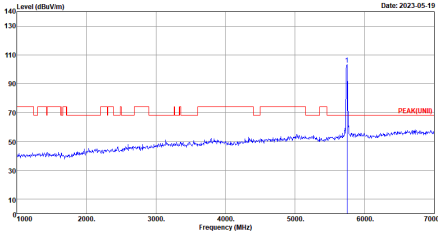
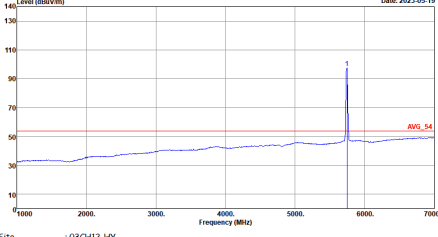
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11a CH165 5825MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH12-HY Condition : PEAK(FUN1) 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		<p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



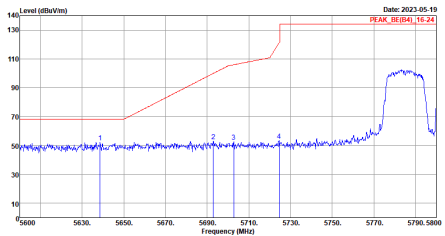
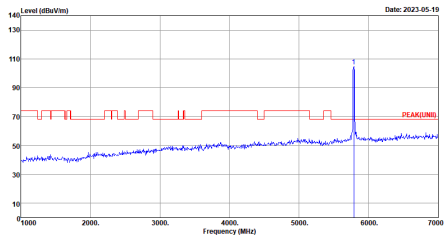
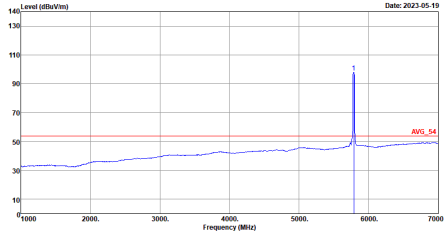
**Band 4 5725~5850MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH149 5745MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	 <p>Date: 2023-05-19 PEAK_BE(B4)_16-24</p> <p>Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-05-19 PEAK(UNIT)</p> <p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
<b>Avg</b>	<p align="center"><b>Left blank</b></p>  <p>Date: 2023-05-19 AVG_54</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>	



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH12-HY Condition : PEAK_BE(4)_15-24 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH12-HY Condition : PEAK(UNI) 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		<p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



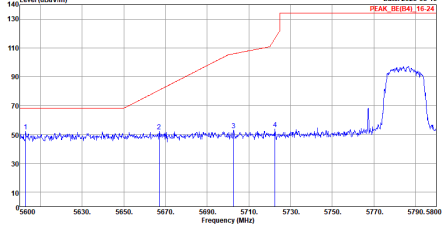
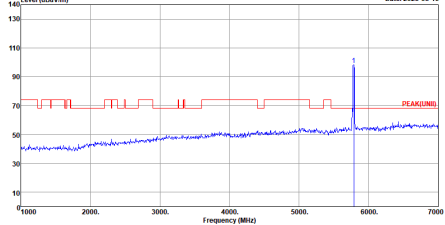
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	 <p>Date: 2023-05-19 PEAK_BE(04)_15_24</p> <p>Site : 03CH12-HY Condition : PEAK_BE(04)_15-24 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-05-19 PEAK(UNI)</p> <p>Site : 03CH12-HY Condition : PEAK(UNI) 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Date: 2023-05-19 AVG_54</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



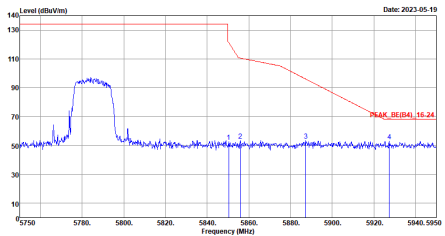


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH12-14Y Condition : PEAK_BE(04)_15-24 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

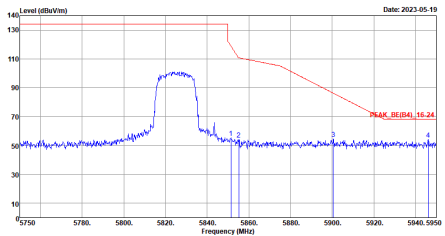
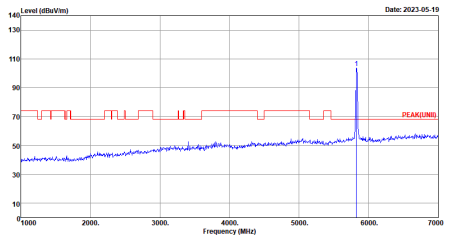
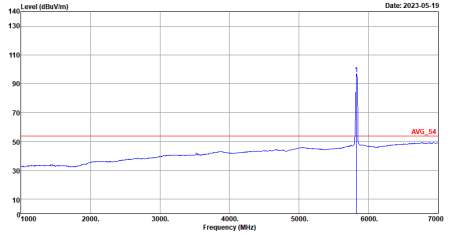


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2023-05-19 PEAK_BE(4)_15_24</p> <p>Site : 03CH12-HY Condition : PEAK_BE(4)_15-24 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-05-19 PEAK(UNI)</p> <p>Site : 03CH12-HY Condition : PEAK(UNI) 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Date: 2023-05-19 AVG_54</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH2-14Y Condition : PEAK_BE(04)_15-24 3m HORN_9120D_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



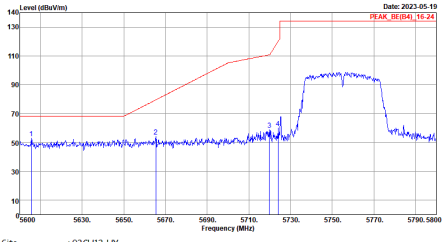
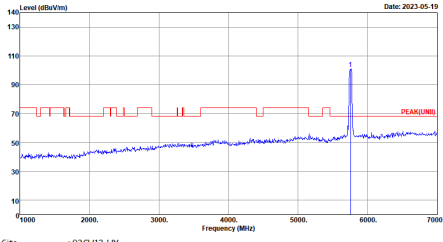
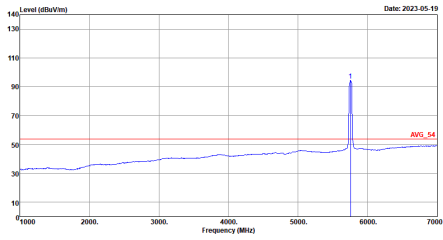
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Site : 03CH12-HY Condition : PEAK(F11) 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	<p>Left blank</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>	



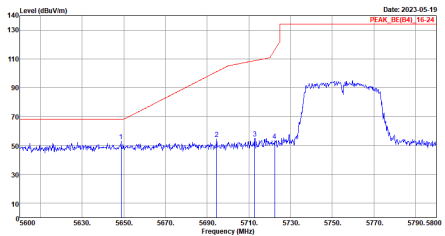
**Band 4 5725~5850MHz  
WIFI 802.11n HT40 (Band Edge @ 3m)**

WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE(B4)_16-24 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH12-14Y Condition : PEAK_BE(04)_15-24 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2023-05-19 PEAK_BE(4)_15.24</p> <p>Site : 03CH12-HY Condition : PEAK_BE(4)_15-24 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-05-19 PEAK(UNI)</p> <p>Site : 03CH12-HY Condition : PEAK(UNI) 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Date: 2023-05-19 AVG_54</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>





WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH12-14Y Condition : PEAK_BE(04)_15-24 3m HORN_9120D_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank

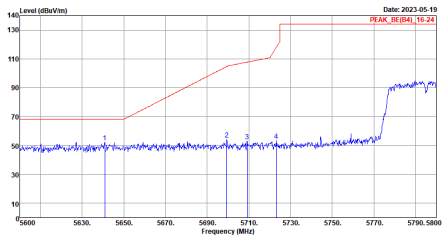


WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE(04)_16-24 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



<b>WIFI</b>	<b>Band 4 5725~5850MHz Band Edge @ 3m</b>	
<b>ANT</b>	<b>802.11n HT40 CH159 5795MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Fundamental</b>
<b>Peak</b>	<p>Site : 03CH2-14Y Condition : PEAK_BE(04)_15-24 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<b>Left blank</b>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2023-05-19 PEAK_BE(4)_15_24</p> <p>Site : 03CH12-HY Condition : PEAK_BE(4)_15-24 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-05-19 PEAK(UNI)</p> <p>Site : 03CH12-HY Condition : PEAK(UNI) 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Date: 2023-05-19 AVG_54</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH2-14Y Condition : PEAK_BE(04)_15-24 3m HORN_9120D_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



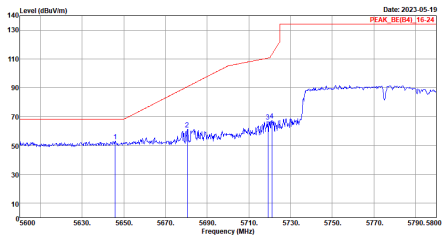
Band 4 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

Table with 2 columns (WIFI, ANT) and 2 rows (Peak, Avg). The Peak row contains two plots: 'Horizontal' and 'Fundamental'. The Avg row contains one plot labeled 'Left blank'. Each plot shows Level (dBuV/m) vs Frequency (MHz) with various annotations and site/condition details.



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH2-14Y Condition : PEAK_BE(04)_15-24 3m HORN_9120D_02114 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	 <p>Date: 2023-05-19 PEAK_BE(4)_15_24</p> <p>Site : 03CH12-HY Condition : PEAK_BE(4)_15-24 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Date: 2023-05-19 PEAK(FUN1)</p> <p>Site : 03CH12-HY Condition : PEAK(FUN1) 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg	Left blank	
		 <p>Date: 2023-05-19 AVG_54</p> <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL : RBW:1000.000kHz VBW:10.000kHz SWT:Auto</p>





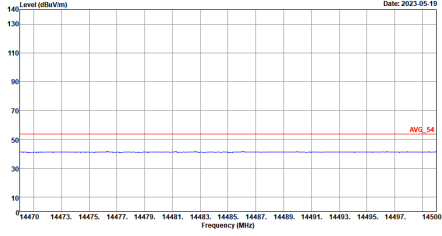
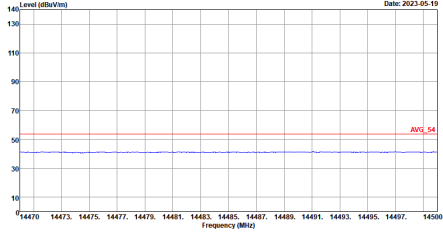
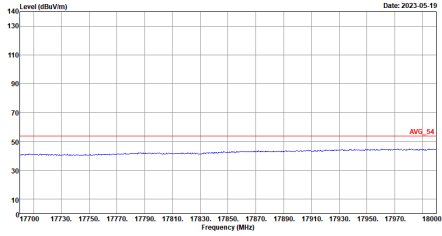
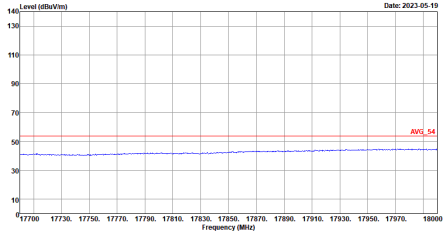
WIFI	Band 4 5725~5850MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH2-14Y Condition : PEAK_0E104_10.24 3m HORN_9120D_02114 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	Left blank



**Band 4 - 5725~5850MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

<b>WIFI</b>	<b>Band 4 5725~5850MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11a CH149 5745MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK[UNITE] 3m HORN_9120D_02114 HORIZONTAL</p>	<p>Site : 03CH12-HY Condition : PEAK[UNITE] 3m HORN_9120D_02114 VERTICAL</p>

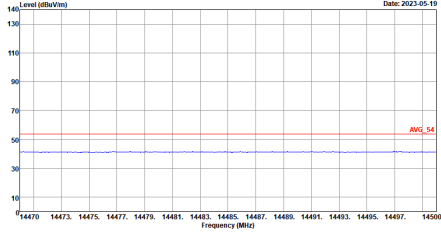
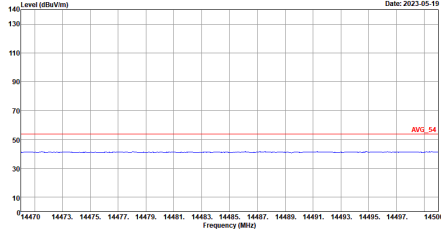
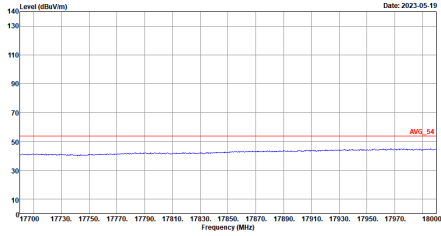
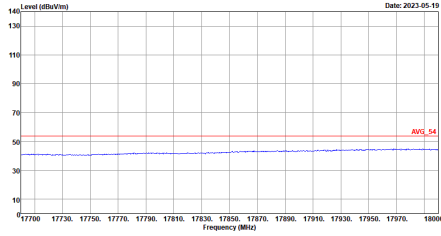


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH149 5745MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 HORIZONTAL</p>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 VERTICAL</p>

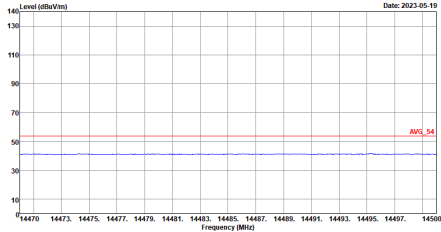
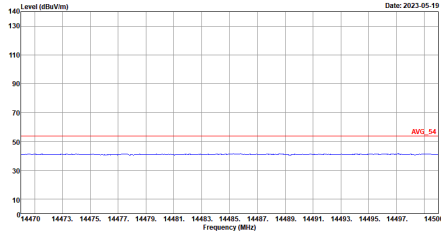
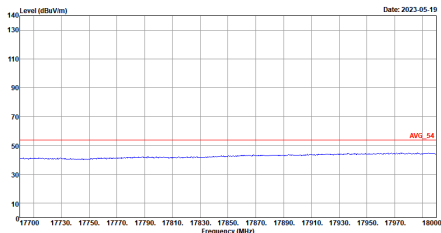
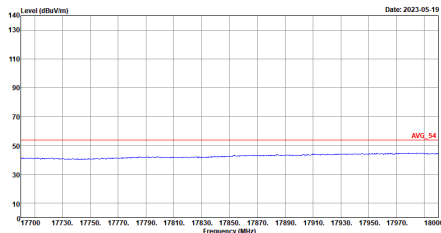


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 HORIZONTAL</p>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH165 5825MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL</p>

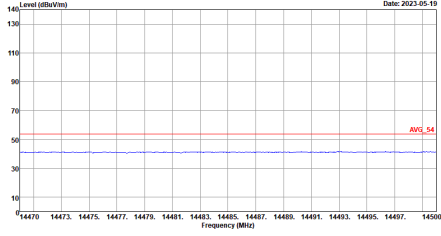
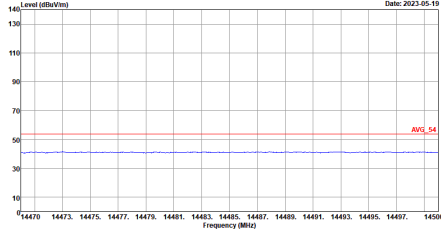
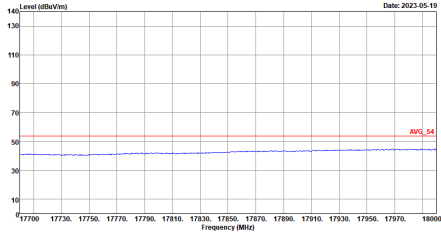
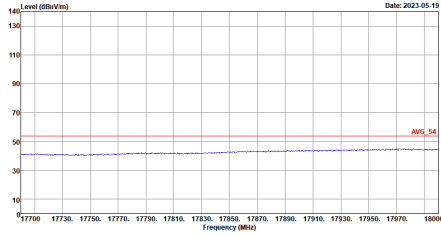


**Band 4 5725~5850MHz**  
**WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_02114 HORIZONTAL :</p>	<p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_02114 VERTICAL :</p>



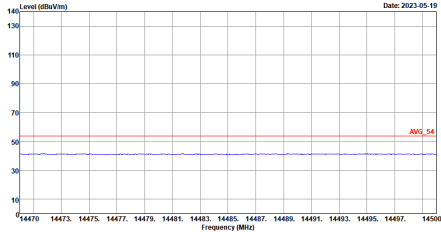
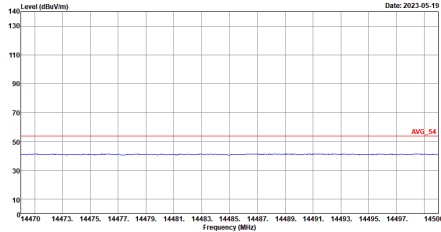
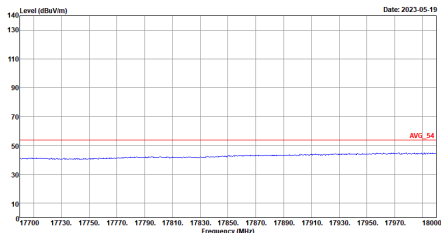
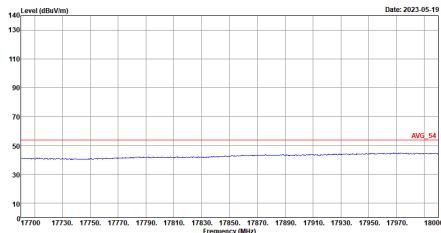


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH149 5745MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 HORIZONTAL</p>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 VERTICAL</p>

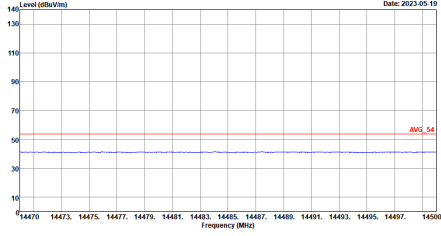
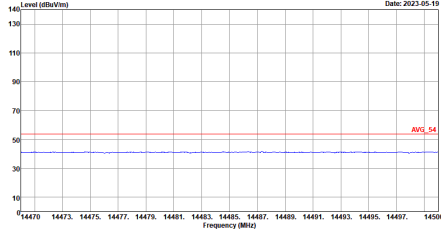
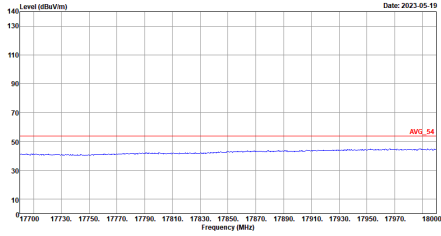
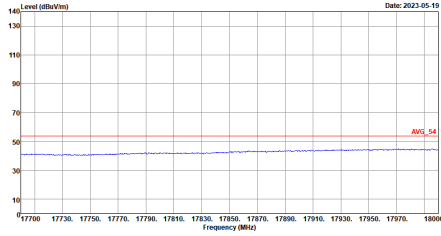


WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 HORIZONTAL</p>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 VERTICAL</p>



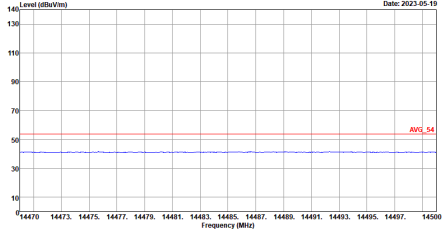
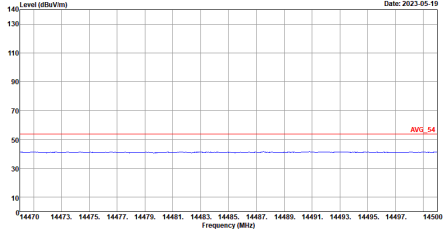
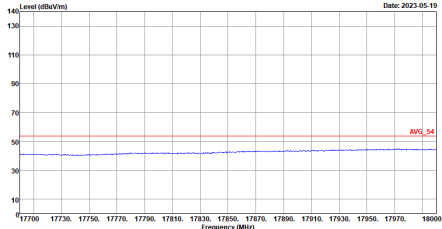
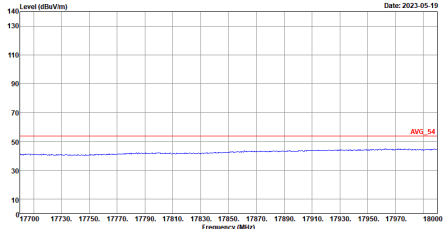
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH165 5825MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>



**Band 4 5725~5850MHz  
WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
<b>Peak Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_02114 HORIZONTAL :</p>	<p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_02114 VERTICAL :</p>



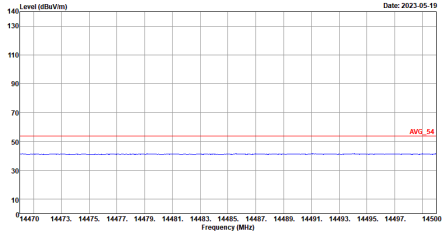
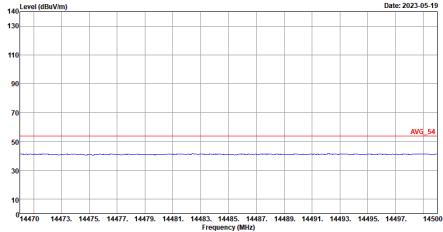
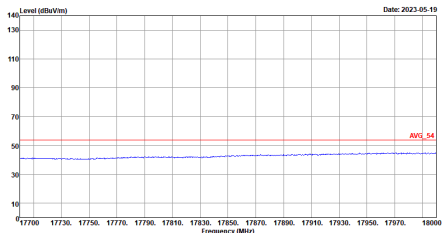
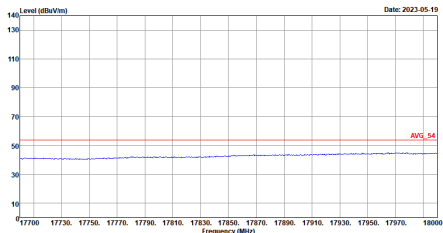
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 HORIZONTAL</p>	<p>Site : 03CH12-HY Condition : PEAK[UNIT] 3m HORN_9120D_02114 VERTICAL</p>





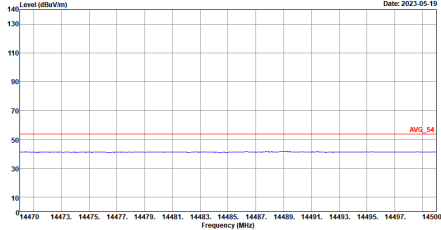
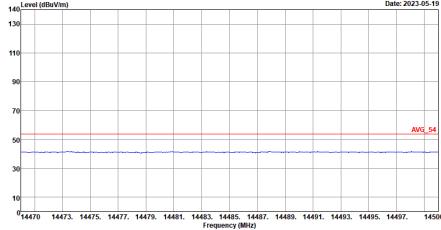
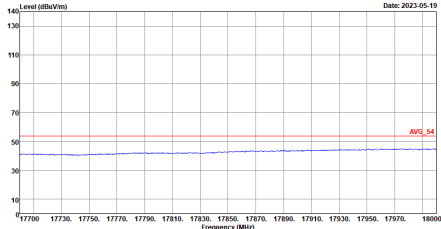
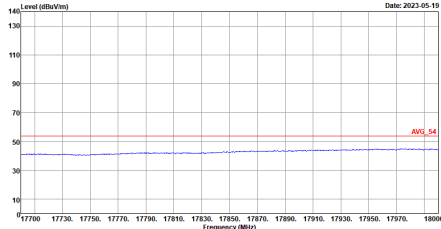
WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_02114 VERTICAL</p>



**Band 4 5725~5850MHz**  
**WIFI 802.11ac VHT80 (Harmonic @ 3m)**

WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_02114 HORIZONTAL :</p>	<p>Site : 03CH12-HY Condition : PEAK(UNIT) 3m HORN_9120D_02114 VERTICAL :</p>



WIFI	Band 4 5725~5850MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH155 5775MHz	
1	Horizontal	Vertical
Peak	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 HORIZONTAL</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_02114 VERTICAL</p>



Emission above 18GHz  
 5GHz WIFI 802.11n HT20 (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11n HT20 SHF	
1	Horizontal	Vertical
<b>Peak</b>  <b>Avg.</b>	<p>Site : 03CH12-HY          Condition : PEAK(LINE) 1m SHF HORN BBHA9170993 HORIZONTAL</p>	<p>Site : 03CH12-HY          Condition : PEAK(LINE) 1m SHF HORN BBHA9170993 VERTICAL</p>



Emission below 1GHz  
5GHz WIFI 802.11n HT20 (LF @ 3m)

WIFI	5GHz WIFI	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak	<p>Site : 03CH12-HY Condition : QP 3m 81LOG_61110_37059 HORIZONTAL</p>	<p>Site : 03CH12-HY Condition : QP 3m 81LOG_61110_37059 VERTICAL</p>



## Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11a	96.86	1390	0.72	1kHz
5GHz 802.11n HT20	96.65	1300	0.77	1kHz
5GHz 802.11n HT40	93.51	648	1.54	3kHz
5GHz 802.11ac VHT80	87.80	324	3.09	10kHz

