

ATC

TEST REPORT

Applicant Name : Shenzhen Youmi Intelligent Technology Co., Ltd.
Address : 406-407 Jinqi Zhigu Building, 4/F, 1 Tangling Road, Nanshan District, Shenzhen, China
Report Number : SZNS220126-03831E-RF-00B
FCC ID: 2ATZ4-BIXSG

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type: RP05
Model No.: BISON X10S
Multiple Model(s) No.: BISON X10G (Please refer to DOS for Model difference)
Trade Mark: UMIDIGI
Date Received: 2022/01/26
Date of Test: 2022/02/22~2022/03/01
Report Date: 2022/03/04

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Handwritten signature of Ting Lü.

Ting Lü
EMC Engineer

Approved By:

Handwritten signature of Robert Li.

Robert Li
EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk “*”.

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk “**”. Customer model name, addresses, names, trademarks etc. are not considered data.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	5G Wi-Fi: 5150-5250MHz; 5725-5850MHz
Mode	802.11a/n20/n40/ac20/ac40/ac80
Maximum Conducted Average Output Power	5150-5250 MHz: 15.94dBm 5725-5850 MHz: 16.32dBm
Modulation Technique	OFDM
Antenna Specification*	2.2 dBi (It is provided by the applicant)
Voltage Range	DC 3.87V from battery or DC 5V from adapter
Sample serial number	SZNS220126-03831E-RFA1-S1 (Assigned by ATC)
Sample/EUT Status	Good condition
Adapter information	Model: HJ-0502000W2-US Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5 V, 2A

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter	Uncertainty	
Occupied Channel Bandwidth	5%	
RF Frequency	0.082×10^{-7}	
RF output power, conducted	0.73dB	
Unwanted Emission, conducted	1.6dB	
AC Power Lines Conducted Emissions	2.72dB	
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature	1°C	
Humidity	6%	
Supply voltages	0.4%	

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

Listed by Innovation, Science and Economic Development Canada (ISED), the Registration Number is 5077A.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

The device support 5G Wi-Fi 802.11a/n20/n40/ac20/ac40/ac80 modes.

For 5150-5250MHz Band, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
38	5190	46	5230
40	5200	48	5240
42	5210	/	/

For 802.11a/n20/ac20 mode: channel 36, 40, 48 were tested;

For 802.11n40/ac40 mode: channel 38, 46 were tested;

For 802.11ac80 mode, channel 42 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a/n20/ac20 mode: channel 149, 157, 165 were tested;

For 802.11n40/ac40 mode: channel 151, 159 were tested;

For 802.11ac80 mode, channel 155 was tested.

EUT Exercise Software

EUT was test in engineering mode. The software and power level was provided by the applicant.

The worst case was performed under:

U-NII	Mode	Date rate	Power Level*		
			Low Channel	Middle Channel	High Channel
5150 – 5250MHz	802.11a	6Mbps	14	14	14
	802.11n-HT20	MCS0	14	14	14
	802.11n-HT40	MCS0	14	/	14
	802.11ac20	MCS0	14	14	14
	802.11ac40	MCS0	14	/	14
	802.11ac80	MCS0	/	14	/
5725 – 5850MHz	802.11a	6Mbps	14	14	14
	802.11n-HT20	MCS0	14	14	14
	802.11n-HT40	MCS0	14	/	14
	802.11ac20	MCS0	14	14	14
	802.11ac40	MCS0	14	/	14
	802.11ac80	MCS0	/	14	/

The worse-case data rates are determined to be as follows for each mode based upon investigations by measuring the output power and PSD across all data rated bandwidths, and modulations.

The software and power level was provided by the applicant.

Duty cycle

Test Result: Pass. Please refer to report SZNS211231-68438E-RF-00B.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

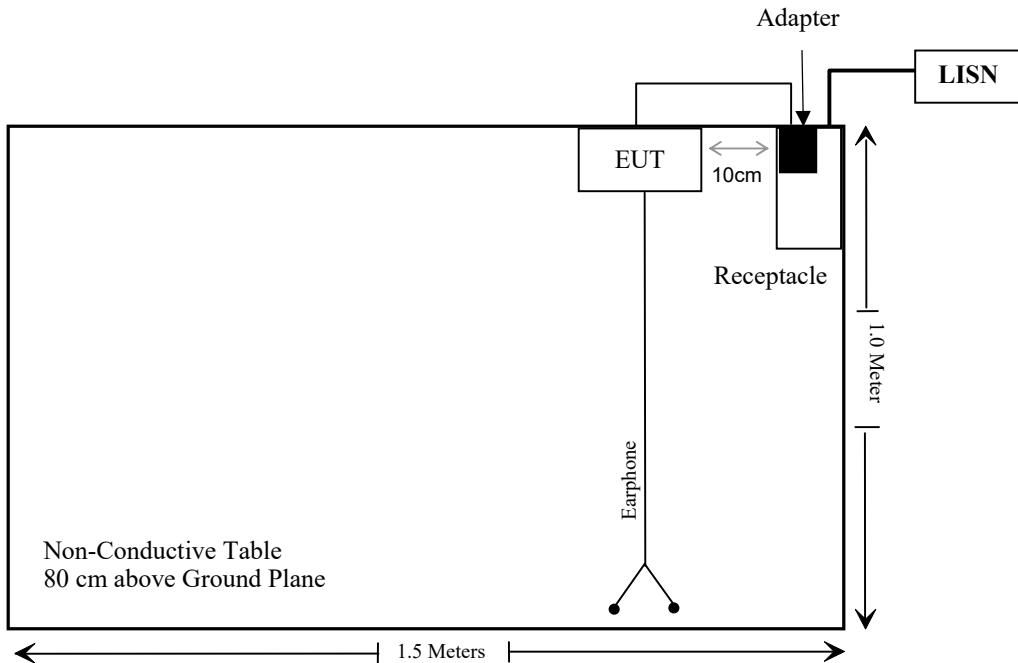
Manufacturer	Description	Model	Serial Number
Unknown	Earphone	Unknown	Earphone

External I/O Cable

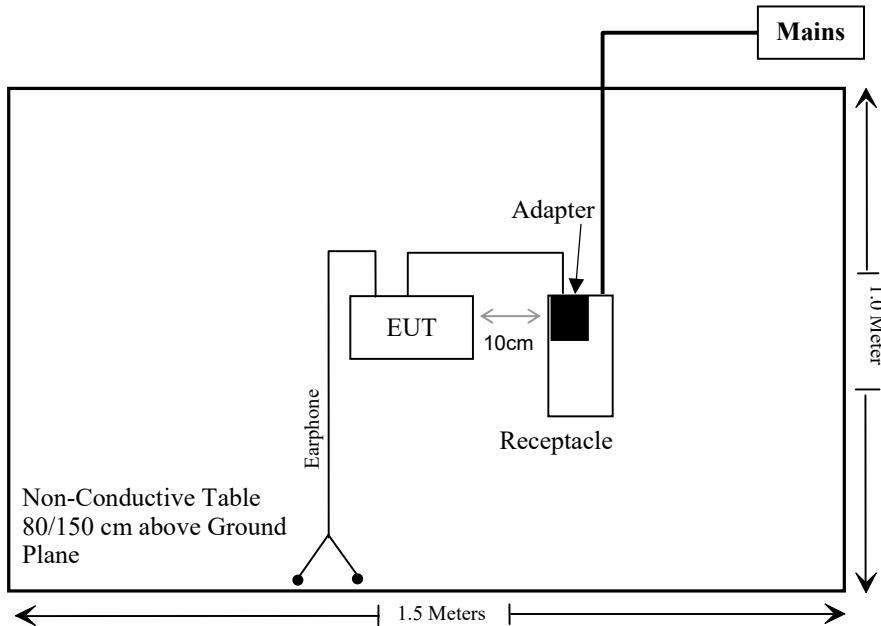
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For conducted emission:



For radiated emission:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307 (b) (1) & §2.1093	RF Exposure	Compliant
§15.203	Antenna Requirement	Compliant
§15.407(b)(9)& §15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant*
§15.407(a)	Conducted Transmitter Output Power	Compliant*
§15.407 (a)	Power Spectral Density	Compliant*
§15.407 (h)	Transmit Power Control (TPC)	Not Applicable
§15.407 (h)	Dynamic Frequency Selection (DFS)	Not Applicable*

Not Applicable: the EUT has no TPC function which was declared by the applicant.

Not Applicable*: the EUT not operating within frequency range of 5250-5350MHz&5470-5725MHz.

Compliant*: The EUT is identical with the certified device (model name: RP05, model number: BISON X10S NFC, BISON X10G NFC, FCC ID: 2ATZ4-BIXSGN), except for the NFC chip was removed. The output power of EUT was tested and verified remain within the tune-up tolerance range, so the test data please refer to the report SZNS211231-68438E-RF-00B.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
Conducted Emission Test Software: e3 19821b (V9)					
Radiated Emissions Test					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2021/11/11	2022/11/10
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Schwarzbeck	Horn Antenna	BBHA9120 D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
CD	Band Reject Filter	BRM-5.15/5.35g-45	075	2021/12/14	2022/12/13
CD	Band Reject Filter	BRM-5.725/5.875 G-45	065	2021/12/14	2022/12/13

* **Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307(b) & §2.1093 - RF EXPOSURE INFORMATION

Applicable Standard

FCC§1.1310 and §2.1093.

Test Result

Compliant, please refer to the SAR report: SZNS220126-03831E-20A1.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has one internal antenna arrangement for 5G Wi-Fi which were permanently attached. Please refer to the EUT photos.

Type	Antenna Gain	Impedance	Frequency Range
FPC	2.2dBi	50 Ω	5150-5850MHz

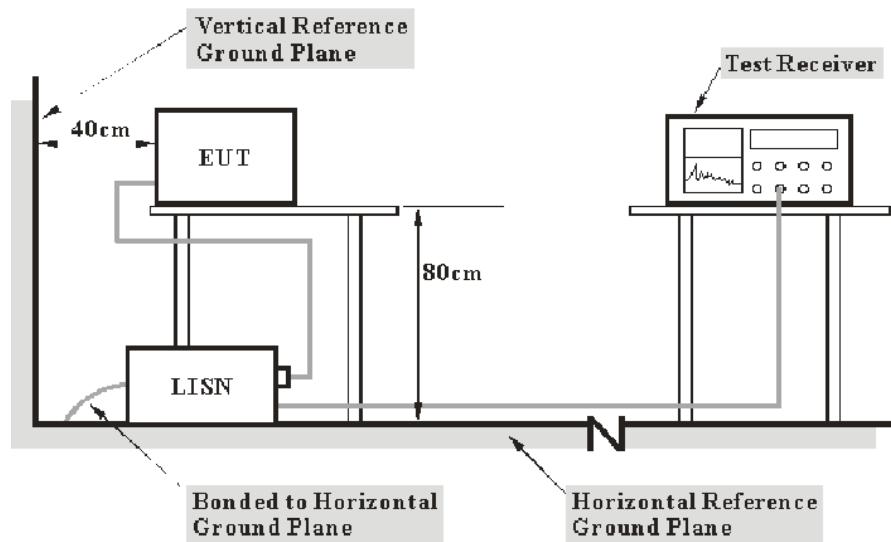
Result: Compliant.

FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (6)

EUT Setup



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

Corrected Factor & Margin Calculation

The Transd factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Test Data

Environmental Conditions

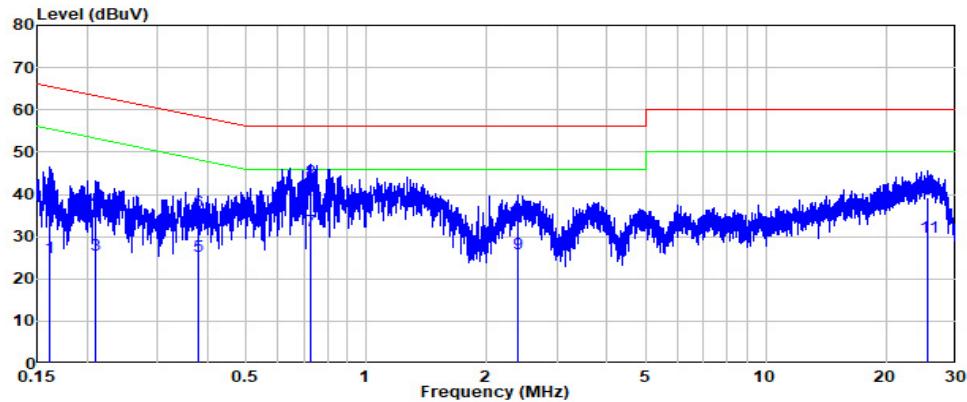
Temperature:	23 °C
Relative Humidity:	53 %
ATM Pressure:	101.0 kPa

The testing was performed by Bin Duan on 2022-02-22.

EUT operation mode: Transmitting (worst case is 802.11a, 5745MHz)

AC 120V/60 Hz, Line:

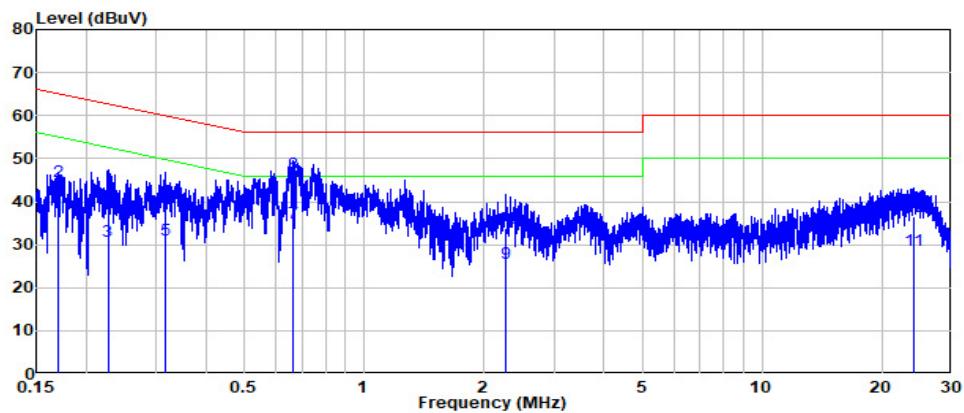
Site :Shielding Room
Condition :Line
Model :BISON X10S
Power :AC 120V 60Hz



No.	Frequency	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.161	9.80	15.28	25.08	55.41	-30.33	Average
2	0.161	9.80	27.55	37.35	65.41	-28.06	QP
3	0.211	9.80	15.87	25.67	53.16	-27.49	Average
4	0.211	9.80	27.03	36.83	63.16	-26.33	QP
5	0.380	9.80	15.63	25.43	48.28	-22.85	Average
6	0.380	9.80	26.11	35.91	58.28	-22.37	QP
7	0.724	9.81	21.56	31.37	46.00	-14.63	Average
8	0.724	9.81	33.31	43.12	56.00	-12.88	QP
9	2.407	9.82	16.05	25.87	46.00	-20.13	Average
10	2.407	9.82	23.97	33.79	56.00	-22.21	QP
11	25.507	10.06	19.69	29.75	50.00	-20.25	Average
12	25.507	10.06	29.15	39.21	60.00	-20.79	QP

AC 120V/60 Hz, Neutral:

Site :Shielding Room
Condition :Neutral
Model :BISON X10S
Power :AC 120V 60Hz



No.	Frequency	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.171	9.80	26.88	36.68	54.92	-18.24	Average
2	0.171	9.80	34.98	44.78	64.92	-20.14	QP
3	0.227	9.80	21.04	30.84	52.55	-21.71	Average
4	0.227	9.80	28.57	38.37	62.55	-24.18	QP
5	0.316	9.80	21.27	31.07	49.81	-18.74	Average
6	0.316	9.80	30.31	40.11	59.81	-19.70	QP
7	0.661	9.81	25.15	34.96	46.00	-11.04	Average
8	0.661	9.81	36.76	46.57	56.00	-9.43	QP
9	2.265	9.82	15.78	25.60	46.00	-20.40	Average
10	2.265	9.82	23.84	33.66	56.00	-22.34	QP
11	24.015	10.14	18.51	28.65	50.00	-21.35	Average
12	24.015	10.14	26.45	36.59	60.00	-23.41	QP

§15.205 & §15.209 & §15.407(B) – UNDESIRABLE EMISSION

Applicable Standard

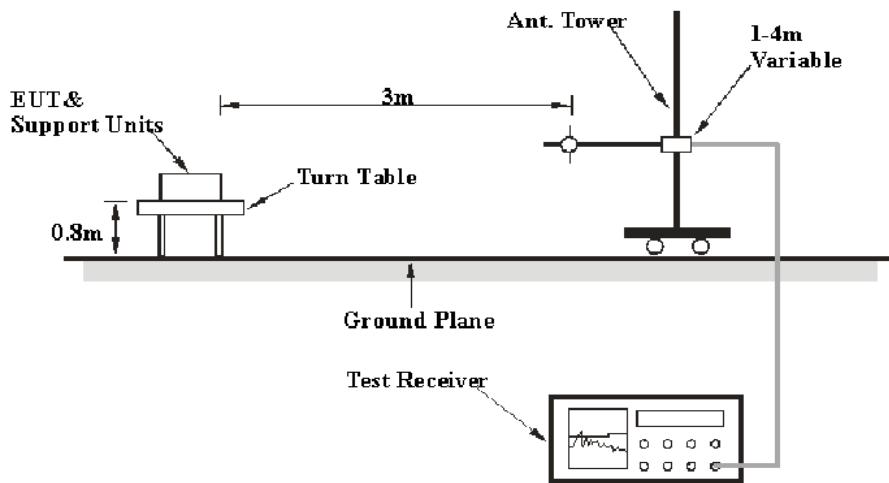
FCC §15.407 (b); §15.209; §15.205;

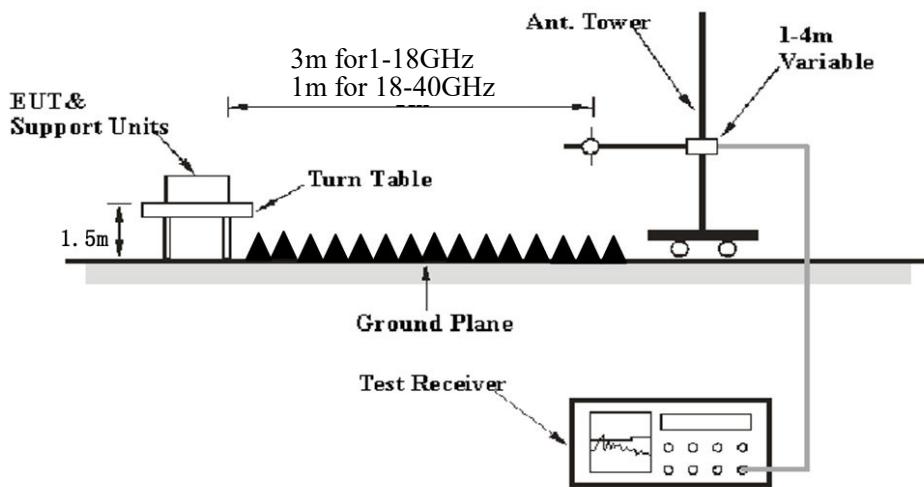
- (b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
 - (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (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.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

Below 1 GHz:



Above 1 GHz:

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1MHz	10 Hz ^{Note 1}	/	Average
	1MHz	>1/T ^{Note 2}	/	Average

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

Test Procedure**Radiated Spurious Emission**

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\text{SpecLimit}} = E_{\text{Meas}} + 20 \log \left(\frac{d_{\text{Meas}}}{d_{\text{SpecLimit}}} \right)$$

where

- $E_{\text{SpecLimit}}$ is the field strength of the emission at the distance specified by the limit, in dB μ V/m
- E_{Meas} is the field strength of the emission at the measurement distance, in dB μ V/m
- d_{Meas} is the measurement distance, in m
- $d_{\text{SpecLimit}}$ is the distance specified by the limit, in m

So the extrapolation factor of 1m is $20 * \log(1/3) = -9.5$ dB, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

Factor & Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Over Limit/Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned} \text{Over Limit/Margin} &= \text{Level} / \text{Corrected Amplitude} - \text{Limit} \\ \text{Level} / \text{Corrected Amplitude} &= \text{Read Level} + \text{Factor} \end{aligned}$$

Test Data

Environmental Conditions

Temperature:	19~28.6 °C
Relative Humidity:	54~58 %
ATM Pressure:	100.9~101.0 kPa

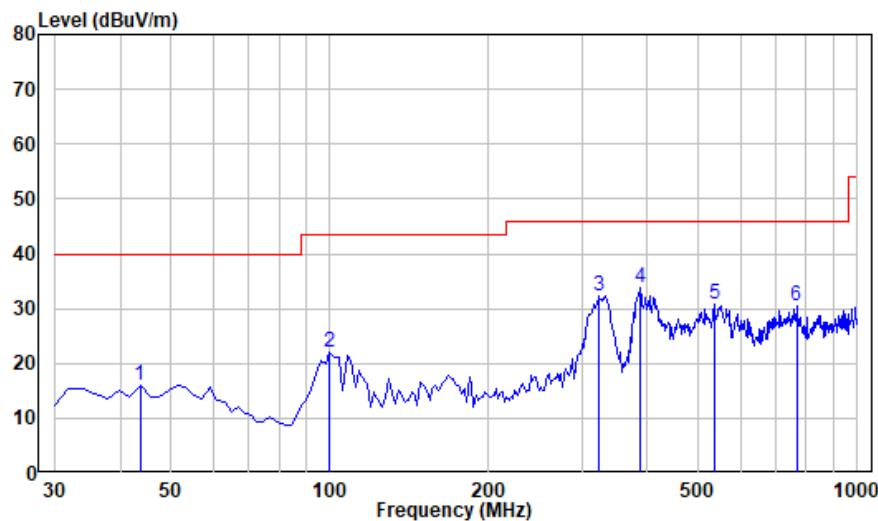
The testing was performed by Chao Mo on 2022-02-26 for below 1GHz, Chao Mo and Bin Deng on 2022-03-01 for above 1GHz.

EUT operation mode: Transmitting(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)

30 MHz – 1 GHz: (worst case is 802.11a, 5745MHz)

Note: When the result of Peak less than the limit of QP by more than 6dB, just the peak value was recorded.

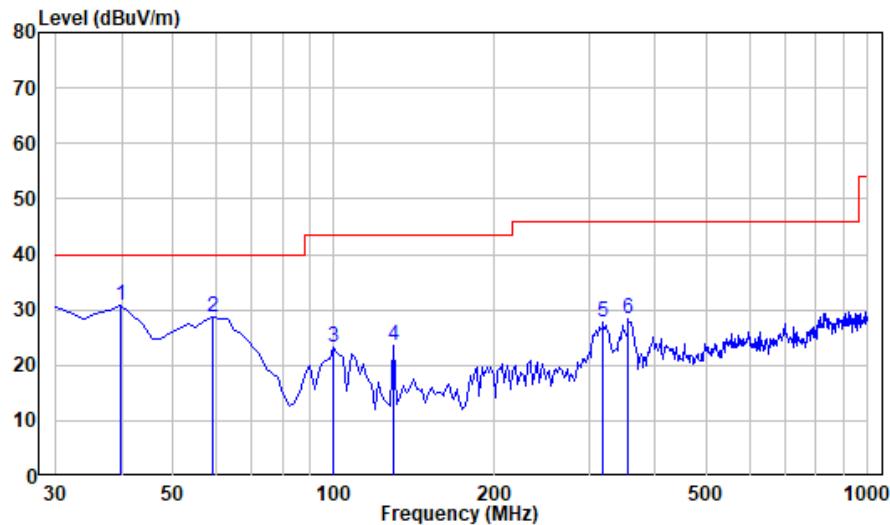
Horizontal



Site : chamber
Condition: 3m HORIZONTAL
:
Job No. : SZNS220126-03831E-RF
Test Mode: TX 5G WIFI
Model : BISON X10S

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	43.607	-9.84	25.89	16.05	40.00	-23.95	Peak
2	99.980	-11.89	33.88	21.99	43.50	-21.51	Peak
3	323.527	-8.08	40.50	32.42	46.00	-13.58	Peak
4	387.675	-7.07	40.75	33.68	46.00	-12.32	Peak
5	535.411	-4.63	35.40	30.77	46.00	-15.23	Peak
6	766.734	-0.25	30.61	30.36	46.00	-15.64	Peak

Vertical



Site : chamber
Condition: 3m VERTICAL
:
Job No. : SZNS220126-03831E-RF
Test Mode: TX 5G WIFI
Model : BISON X10S

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39.719	-10.33	41.07	30.74	40.00	-9.26	Peak
2	59.158	-10.28	38.99	28.71	40.00	-11.29	Peak
3	99.980	-11.89	35.28	23.39	43.50	-20.11	Peak
4	129.138	-14.72	38.18	23.46	43.50	-20.04	Peak
5	319.639	-8.21	35.99	27.78	46.00	-18.22	Peak
6	356.573	-7.58	36.08	28.50	46.00	-17.50	Peak

Above 1GHz:**5150-5250 MHz:**

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	PK/QP/AV		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11a												
5180 MHz												
4500	63.09	PK	146	2.0	H	-4.72	58.37	74	-15.63			
4500	50.36	AV	146	2.0	H	-4.72	45.64	54	-8.36			
4500	62.64	PK	35	1.6	V	-4.72	57.92	74	-16.08			
4500	50.01	AV	35	1.6	V	-4.72	45.29	54	-8.71			
5150	63.27	PK	229	2.1	H	-2.73	60.54	74	-13.46			
5150	50.19	AV	229	2.1	H	-2.73	47.46	54	-6.54			
5150	63.13	PK	141	1.5	V	-2.73	60.40	74	-13.60			
5150	50.09	AV	141	1.5	V	-2.73	47.36	54	-6.64			
10360	56.83	PK	172	2.1	H	8.12	64.95	68.2	-3.25			
10360	53.89	PK	233	1.9	V	8.12	62.01	68.2	-6.19			
5200 MHz												
10400	55.32	PK	15	1.8	H	8.24	63.56	68.2	-4.64			
10400	53.61	PK	204	1.7	V	8.24	61.85	68.2	-6.35			
5240 MHz												
5350	63.97	PK	119	1.6	H	-2.33	61.64	74	-12.36			
5350	50.53	AV	119	1.6	H	-2.33	48.20	54	-5.80			
5350	63.71	PK	90	2.1	V	-2.33	61.38	74	-12.62			
5350	50.63	AV	90	2.1	V	-2.33	48.30	54	-5.70			
5460	62.69	PK	67	1.7	H	-2.26	60.43	74	-13.57			
5460	50.47	AV	67	1.7	H	-2.26	48.21	54	-5.79			
5460	62.50	PK	88	1.6	V	-2.26	60.24	74	-13.76			
5460	50.68	AV	88	1.6	V	-2.26	48.42	54	-5.58			
10480	53.58	PK	242	2.0	H	8.56	62.14	68.2	-6.06			
10480	51.72	PK	335	1.5	V	8.56	60.28	68.2	-7.92			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	PK/QP/AV		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11n20												
5180 MHz												
4500	62.97	PK	309	1.6	H	-4.72	58.25	74	-15.75			
4500	50.54	AV	309	1.6	H	-4.72	45.82	54	-8.18			
4500	63.09	PK	94	1.7	V	-4.72	58.37	74	-15.63			
4500	50.42	AV	94	1.7	V	-4.72	45.70	54	-8.30			
5150	63.69	PK	207	1.9	H	-2.73	60.96	74	-13.04			
5150	50.14	AV	207	1.9	H	-2.73	47.41	54	-6.59			
5150	63.29	PK	228	1.6	V	-2.73	60.56	74	-13.44			
5150	50.40	AV	228	1.6	V	-2.73	47.67	54	-6.33			
10360	55.78	PK	165	2.1	H	8.12	63.90	68.2	-4.30			
10360	54.07	PK	68	1.9	V	8.12	62.19	68.2	-6.01			
5200 MHz												
10400	55.33	PK	199	1.7	H	8.24	63.57	68.2	-4.63			
10400	53.96	PK	344	1.8	V	8.24	62.20	68.2	-6.00			
5240 MHz												
5350	64.30	PK	116	1.8	H	-2.33	61.97	74	-12.03			
5350	51.02	AV	116	1.8	H	-2.33	48.69	54	-5.31			
5350	63.73	PK	187	1.9	V	-2.33	61.40	74	-12.60			
5350	50.67	AV	187	1.9	V	-2.33	48.34	54	-5.66			
5460	62.86	PK	193	2.1	H	-2.26	60.60	74	-13.40			
5460	50.69	AV	193	2.1	H	-2.26	48.43	54	-5.57			
5460	62.81	PK	195	2.0	V	-2.26	60.55	74	-13.45			
5460	50.78	AV	195	2.0	V	-2.26	48.52	54	-5.48			
10480	53.99	PK	118	1.7	H	8.56	62.55	68.2	-5.65			
10480	51.88	PK	344	1.6	V	8.56	60.44	68.2	-7.76			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	PK/QP/AV		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11n40												
5190 MHz												
4500	66.64	PK	24	1.6	H	-4.72	61.92	74	-12.08			
4500	53.18	AV	24	1.6	H	-4.72	48.46	54	-5.54			
4500	65.99	PK	176	2.0	V	-4.72	61.27	74	-12.73			
4500	53.35	AV	176	2.0	V	-4.72	48.63	54	-5.37			
5150	63.13	PK	13	1.6	H	-2.73	60.40	74	-13.60			
5150	51.34	AV	13	1.6	H	-2.73	48.61	54	-5.39			
5150	63.32	PK	314	1.7	V	-2.73	60.59	74	-13.41			
5150	51.45	AV	314	1.7	V	-2.73	48.72	54	-5.28			
10380	54.35	PK	250	2.0	H	8.18	62.53	68.2	-5.67			
10380	52.10	PK	194	1.8	V	8.18	60.28	68.2	-7.92			
5230 MHz												
5350	64.80	PK	37	1.9	H	-2.33	62.47	74	-11.53			
5350	51.29	AV	37	1.9	H	-2.33	48.96	54	-5.04			
5350	64.43	PK	34	2.1	V	-2.33	62.10	74	-11.9			
5350	51.04	AV	34	2.1	V	-2.33	48.71	54	-5.29			
5460	63.59	PK	210	1.7	H	-2.26	61.33	74	-12.67			
5460	51.03	AV	210	1.7	H	-2.26	48.77	54	-5.23			
5460	63.46	PK	208	1.5	V	-2.26	61.20	74	-12.8			
5460	50.67	AV	208	1.5	V	-2.26	48.41	54	-5.59			
10460	52.41	PK	216	1.8	H	8.47	60.88	68.2	-7.32			
10460	49.74	PK	45	1.5	V	8.47	58.21	68.2	-9.99			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	PK/QP/AV		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11ac20												
5180 MHz												
4500	63.39	PK	272	1.9	H	-4.72	58.67	74	-15.33			
4500	50.06	AV	272	1.9	H	-4.72	45.34	54	-8.66			
4500	63.05	PK	23	1.9	V	-4.72	58.33	74	-15.67			
4500	49.97	AV	23	1.9	V	-4.72	45.25	54	-8.75			
5150	64.11	PK	3	2.1	H	-2.73	61.38	74	-12.62			
5150	50.55	AV	3	2.1	H	-2.73	47.82	54	-6.18			
5150	63.58	PK	336	1.7	V	-2.73	60.85	74	-13.15			
5150	50.18	AV	336	1.7	V	-2.73	47.45	54	-6.55			
10360	55.77	PK	357	1.9	H	8.12	63.89	68.2	-4.31			
10360	53.29	PK	228	1.9	V	8.12	61.41	68.2	-6.79			
5200 MHz												
10400	54.86	PK	202	2.0	H	8.24	63.10	68.2	-5.10			
10400	52.50	PK	277	1.8	V	8.24	60.74	68.2	-7.46			
5240 MHz												
5350	64.51	PK	43	1.9	H	-2.33	62.18	74	-11.82			
5350	51.15	AV	43	1.9	H	-2.33	48.82	54	-5.18			
5350	64.30	PK	8	1.9	V	-2.33	61.97	74	-12.03			
5350	51.26	AV	8	1.9	V	-2.33	48.93	54	-5.07			
5460	63.49	PK	319	1.6	H	-2.26	61.23	74	-12.77			
5460	50.67	AV	319	1.6	H	-2.26	48.41	54	-5.59			
5460	63.60	PK	7	2.0	V	-2.26	61.34	74	-12.66			
5460	50.60	AV	7	2.0	V	-2.26	48.34	54	-5.66			
10480	54.60	PK	150	1.6	H	8.56	63.16	68.2	-5.04			
10480	51.91	PK	351	1.8	V	8.56	60.47	68.2	-7.73			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	Detector (PK/QP/AV)		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11ac40												
5190 MHz												
4500	64.11	PK	274	2.1	H	-4.72	59.39	74	-14.61			
4500	50.94	AV	274	2.1	H	-4.72	46.22	54	-7.78			
4500	63.83	PK	91	1.6	V	-4.72	59.11	74	-14.89			
4500	51.00	AV	91	1.6	V	-4.72	46.28	54	-7.72			
5150	64.03	PK	130	1.7	H	-2.73	61.30	74	-12.70			
5150	50.85	AV	130	1.7	H	-2.73	48.12	54	-5.88			
5150	63.50	PK	75	1.9	V	-2.73	60.77	74	-13.23			
5150	50.59	AV	75	1.9	V	-2.73	47.86	54	-6.14			
10380	55.17	PK	68	1.7	H	8.18	63.35	68.2	-4.85			
10380	52.69	PK	194	1.7	V	8.18	60.87	68.2	-7.33			
5230 MHz												
5350	64.55	PK	117	1.9	H	-2.33	62.22	74	-11.78			
5350	51.85	AV	117	1.9	H	-2.33	49.52	54	-4.48			
5350	64.29	PK	9	1.7	V	-2.33	61.96	74	-12.04			
5350	51.37	AV	9	1.7	V	-2.33	49.04	54	-4.96			
5460	63.96	PK	134	1.8	H	-2.26	61.70	74	-12.30			
5460	51.01	AV	134	1.8	H	-2.26	48.75	54	-5.25			
5460	63.81	PK	292	1.7	V	-2.26	61.55	74	-12.45			
5460	51.25	AV	292	1.7	V	-2.26	48.99	54	-5.01			
10460	53.52	PK	67	1.8	H	8.47	61.99	68.2	-6.21			
10460	51.73	PK	354	1.6	V	8.47	60.20	68.2	-8.00			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	Detector (PK/QP/AV)		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11ac80												
5210MHz												
4500	63.47	PK	308	1.6	H	-4.72	58.75	74	-15.25			
4500	51.62	AV	308	1.6	H	-4.72	46.90	54	-7.10			
4500	63.15	PK	47	1.6	V	-4.72	58.43	74	-15.57			
4500	51.81	AV	47	1.6	V	-4.72	47.09	54	-6.91			
5150	63.51	PK	52	1.7	H	-2.73	60.78	74	-13.22			
5150	51.98	AV	52	1.7	H	-2.73	49.25	54	-4.75			
5150	63.47	PK	13	1.6	V	-2.73	60.74	74	-13.26			
5150	51.74	AV	13	1.6	V	-2.73	49.01	54	-4.99			
5350	64.75	PK	14	1.7	H	-2.33	62.42	74	-11.58			
5350	52.69	AV	14	1.7	H	-2.33	50.36	54	-3.64			
5350	64.37	PK	78	1.9	V	-2.33	62.04	74	-11.96			
5350	52.21	AV	78	1.9	V	-2.33	49.88	54	-4.12			
5460	63.63	PK	257	1.6	H	-2.26	61.37	74	-12.63			
5460	51.47	AV	257	1.6	H	-2.26	49.21	54	-4.79			
5460	63.68	PK	257	1.6	V	-2.26	61.42	74	-12.58			
5460	51.27	AV	257	1.6	V	-2.26	49.01	54	-4.99			
10420	52.06	PK	107	2.1	H	8.32	60.38	68.2	-7.82			
10420	50.04	PK	321	1.6	V	8.32	58.36	68.2	-9.84			

5725-5850 MHz:

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	Detector (PK/QP/AV)		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11a												
5745 MHz												
5725	68.17	PK	186	1.8	H	-1.96	66.21	122.2	-55.99			
5725	67.81	PK	110	2.0	V	-1.96	65.85	122.2	-56.35			
5720	66.42	PK	305	1.6	H	-1.97	64.45	110.8	-46.35			
5720	66.98	PK	337	1.8	V	-1.97	65.01	110.8	-45.79			
5700	65.18	PK	200	1.9	H	-2.02	63.16	105.2	-42.04			
5700	66.5	PK	320	2.1	V	-2.02	64.48	105.2	-40.72			
5650	65.76	PK	186	2.0	H	-1.95	63.81	68.2	-4.39			
5650	65.65	PK	10	1.7	V	-1.95	63.7	68.2	-4.5			
11490	50.11	PK	300	2.0	H	6.63	56.74	74	-17.26			
11490	35.86	AV	300	2.0	H	6.63	42.49	54	-11.51			
11490	48.33	PK	2	1.7	V	6.63	54.96	74	-19.04			
11490	33.75	AV	2	1.7	V	6.63	40.38	54	-13.62			
5785 MHz												
11570	49.76	PK	322	1.6	H	6.59	56.35	74	-17.65			
11570	37.19	AV	322	1.6	H	6.59	43.78	54	-10.22			
11570	47.95	PK	165	2.0	V	6.59	54.54	74	-19.46			
11570	35.26	AV	165	2.0	V	6.59	41.85	54	-12.15			
5825 MHz												
5850	68.64	PK	140	1.5	H	-1.81	66.83	122.2	-55.37			
5850	69.1	PK	265	1.6	V	-1.81	67.29	122.2	-54.91			
5855	66.3	PK	329	2.0	H	-1.82	64.48	110.8	-46.32			
5855	66.75	PK	103	1.7	V	-1.82	64.93	110.8	-45.87			
5875	67.62	PK	105	2.1	H	-1.84	65.78	105.2	-39.42			
5875	68.12	PK	13	1.6	V	-1.84	66.28	105.2	-38.92			
5925	66.4	PK	165	1.6	H	-1.82	64.58	68.2	-3.62			
5925	66.2	PK	217	2.1	V	-1.82	64.38	68.2	-3.82			
11650	48.21	PK	76	1.5	H	6.77	54.98	74	-19.02			
11650	35.16	AV	76	1.5	H	6.77	41.93	54	-12.07			
11650	47.41	PK	56	2.0	V	6.77	54.18	74	-19.82			
11650	35.01	AV	56	2.0	V	6.77	41.78	54	-12.22			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	Detector (PK/QP/AV)		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11n20												
5745 MHz												
5725	67.09	PK	246	2.0	H	-1.96	65.13	122.2	-57.07			
5725	66.64	PK	27	2.0	V	-1.96	64.68	122.2	-57.52			
5720	66.11	PK	168	1.6	H	-1.97	64.14	110.8	-46.66			
5720	65.99	PK	137	1.9	V	-1.97	64.02	110.8	-46.78			
5700	63.64	PK	62	2.1	H	-2.02	61.62	105.2	-43.58			
5700	65.76	PK	263	2.0	V	-2.02	63.74	105.2	-41.46			
5650	65.86	PK	113	2.0	H	-1.95	63.91	68.2	-4.29			
5650	65.31	PK	245	1.9	V	-1.95	63.36	68.2	-4.84			
11490	48.12	PK	284	1.8	H	6.63	54.75	74	-19.25			
11490	33.9	AV	284	1.8	H	6.63	40.53	54	-13.47			
11490	45.39	PK	338	1.9	H	6.63	52.02	74	-21.98			
11490	32.57	AV	338	1.9	V	6.63	39.2	54	-14.8			
5785 MHz												
11570	47.44	PK	315	1.8	H	6.59	54.03	74	-19.97			
11570	33.47	AV	315	1.8	H	6.59	40.06	54	-13.94			
11570	45.6	PK	347	1.8	V	6.59	52.19	74	-21.81			
11570	33.07	AV	347	1.8	V	6.59	39.66	54	-14.34			
5825 MHz												
5850	67.62	PK	136	1.7	H	-1.81	65.81	122.2	-56.39			
5850	67.65	PK	77	1.7	V	-1.81	65.84	122.2	-56.36			
5855	65.12	PK	339	2.0	H	-1.82	63.3	110.8	-47.5			
5855	65.58	PK	344	1.7	V	-1.82	63.76	110.8	-47.04			
5875	66.66	PK	136	1.8	H	-1.84	64.82	105.2	-40.38			
5875	66.3	PK	317	2.0	V	-1.84	64.46	105.2	-40.74			
5925	66.84	PK	127	2.0	H	-1.82	65.02	68.2	-3.18			
5925	66.6	PK	201	1.6	V	-1.82	64.78	68.2	-3.42			
11650	45.46	PK	147	1.9	H	6.77	52.23	74	-21.77			
11650	31.5	AV	147	1.9	H	6.77	38.27	54	-15.73			
11650	44.63	PK	17	1.7	V	6.77	51.40	74	-22.60			
11650	29.71	AV	17	1.7	V	6.77	36.48	54	-17.52			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	Detector (PK/QP/AV)		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11n40												
5755 MHz												
5725	67.15	PK	91	1.8	H	-1.96	65.19	122.2	-57.01			
5725	66.19	PK	45	1.7	V	-1.96	64.23	122.2	-57.97			
5720	68.47	PK	24	1.7	H	-1.97	66.5	110.8	-44.3			
5720	69.18	PK	269	1.6	V	-1.97	67.21	110.8	-43.59			
5700	64.89	PK	153	1.5	H	-2.02	62.87	105.2	-42.33			
5700	67.18	PK	291	1.9	V	-2.02	65.16	105.2	-40.04			
5650	65.52	PK	207	1.7	H	-1.95	63.57	68.2	-4.63			
5650	65.59	PK	196	1.6	V	-1.95	63.64	68.2	-4.56			
11510	47.78	PK	345	1.6	H	6.57	54.35	74	-19.65			
11510	34.36	AV	97	1.8	H	6.57	40.93	54	-13.07			
11510	47.34	PK	142	1.9	V	6.57	53.91	74	-20.09			
11510	33.41	AV	170	2.1	V	6.57	39.98	54	-14.02			
5795 MHz												
5850	66.93	PK	91	1.8	H	-1.81	65.12	122.2	-57.08			
5850	67.17	PK	5	1.6	V	-1.81	65.36	122.2	-56.84			
5855	67.41	PK	12	1.8	H	-1.82	65.59	110.8	-45.21			
5855	67.72	PK	228	1.8	V	-1.82	65.9	110.8	-44.9			
5875	67.21	PK	261	1.6	H	-1.84	65.37	105.2	-39.83			
5875	66.55	PK	49	1.5	V	-1.84	64.71	105.2	-40.49			
5925	66.36	PK	216	1.8	H	-1.82	64.54	68.2	-3.66			
5925	66.85	PK	240	1.9	V	-1.82	65.03	68.2	-3.17			
11590	47.28	PK	86	2.0	H	6.57	53.85	74	-20.15			
11590	34.67	AV	94	1.5	H	6.57	41.24	54	-12.76			
11590	46.43	PK	188	1.8	V	6.57	53	74	-21.00			
11590	33.3	AV	286	1.6	V	6.57	39.87	54	-14.13			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	Detector (PK/QP/AV)		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11ac20												
5745 MHz												
5725	68.36	PK	41	1.9	H	-1.96	66.4	122.2	-55.8			
5725	67.97	PK	107	2.1	V	-1.96	66.01	122.2	-56.19			
5720	67.13	PK	193	1.7	H	-1.97	65.16	110.8	-45.64			
5720	67.99	PK	152	2.0	V	-1.97	66.02	110.8	-44.78			
5700	64.97	PK	100	1.6	H	-2.02	62.95	105.2	-42.25			
5700	67.11	PK	180	1.6	V	-2.02	65.09	105.2	-40.11			
5650	65.8	PK	284	1.9	H	-1.95	63.85	68.2	-4.35			
5650	65.79	PK	49	1.7	V	-1.95	63.84	68.2	-4.36			
11490	49.9	PK	29	1.7	H	6.63	56.53	74	-17.47			
11490	35.92	AV	29	1.7	H	6.63	42.55	54	-11.45			
11490	47.93	PK	120	1.8	H	6.63	54.56	74	-19.44			
11490	33.44	AV	120	1.8	V	6.63	40.07	54	-13.93			
5785 MHz												
11570	50.36	PK	348	1.9	H	6.59	56.95	74	-17.05			
11570	36.78	AV	348	1.9	H	6.59	43.37	54	-10.63			
11570	48.04	PK	68	1.9	V	6.59	54.63	74	-19.37			
11570	35.07	AV	68	1.9	V	6.59	41.66	54	-12.34			
5825 MHz												
5850	68.05	PK	218	2.0	H	-1.81	66.24	122.2	-55.96			
5850	68.34	PK	203	1.9	V	-1.81	66.53	122.2	-55.67			
5855	65.99	PK	186	1.7	H	-1.82	64.17	110.8	-46.63			
5855	66.41	PK	33	1.7	V	-1.82	64.59	110.8	-46.21			
5875	67.34	PK	182	2.0	H	-1.84	65.5	105.2	-39.7			
5875	66.84	PK	156	2.0	V	-1.84	65	105.2	-40.2			
5925	66.96	PK	177	1.8	H	-1.82	65.14	68.2	-3.06			
5925	66.53	PK	7	1.8	V	-1.82	64.71	68.2	-3.49			
11650	49.89	PK	59	1.7	H	6.77	56.66	74	-17.34			
11650	34.91	AV	59	1.7	H	6.77	41.68	54	-12.32			
11650	48.34	PK	134	1.5	V	6.77	55.11	74	-18.89			
11650	34.88	AV	134	1.5	V	6.77	41.65	54	-12.35			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	Detector (PK/QP/AV)		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11ac40												
5755 MHz												
5725	66.88	PK	212	1.8	H	-1.96	64.92	122.2	-57.28			
5725	66.43	PK	31	1.7	V	-1.96	64.47	122.2	-57.73			
5720	68.63	PK	167	1.6	H	-1.97	66.66	110.8	-44.14			
5720	70.19	PK	227	1.5	V	-1.97	68.22	110.8	-42.58			
5700	66.14	PK	148	1.8	H	-2.02	64.12	105.2	-41.08			
5700	67.54	PK	121	1.9	V	-2.02	65.52	105.2	-39.68			
5650	65.65	PK	272	2.0	H	-1.95	63.7	68.2	-4.5			
5650	65.76	PK	194	1.5	V	-1.95	63.81	68.2	-4.39			
11510	48.99	PK	341	1.7	H	6.59	55.58	74	-18.42			
11510	35.42	AV	341	1.7	H	6.59	42.01	54	-11.99			
11510	46.85	PK	278	1.7	V	6.59	53.44	74	-20.56			
11510	34.1	AV	278	1.7	V	6.59	40.69	54	-13.31			
5795 MHz												
5850	67.8	PK	121	1.6	H	-1.81	65.99	122.2	-56.21			
5850	68.01	PK	260	1.6	V	-1.81	66.2	122.2	-56.00			
5855	67.66	PK	263	2.0	H	-1.82	65.84	110.8	-44.96			
5855	69.76	PK	294	1.5	V	-1.82	67.94	110.8	-42.86			
5875	67.73	PK	315	1.9	H	-1.84	65.89	105.2	-39.31			
5875	66.6	PK	348	1.6	V	-1.84	64.76	105.2	-40.44			
5925	66.32	PK	194	1.8	H	-1.82	64.5	68.2	-3.70			
5925	66.37	PK	315	2.0	V	-1.82	64.55	68.2	-3.65			
11590	47.74	PK	277	1.8	H	6.57	54.31	74	-19.69			
11590	35.09	AV	140	1.6	H	6.57	41.66	54	-12.34			
11590	47.36	PK	342	1.5	V	6.57	53.93	74	-20.07			
11590	34.5	AV	12	1.6	V	6.57	41.07	54	-12.93			

Frequency (MHz)	Receiver		Turn- Table	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15.407				
	Reading (dB μ V)	Detector (PK/QP/AV)		Angle Degree	Height (m)			Limit (dB μ V/m)	Margin (dB)			
802.11ac80												
5775 MHz												
5725	69.61	PK	308	1.8	H	-1.96	67.65	122.2	-54.55			
5725	68.12	PK	88	1.9	V	-1.96	66.16	122.2	-56.04			
5720	69.67	PK	169	1.8	H	-1.97	67.7	110.8	-43.1			
5720	69.13	PK	149	1.6	V	-1.97	67.16	110.8	-43.64			
5700	66.28	PK	342	1.9	H	-2.02	64.26	105.2	-40.94			
5700	68.61	PK	337	1.5	V	-2.02	66.59	105.2	-38.61			
5650	66.39	PK	318	1.8	H	-1.95	64.44	68.2	-3.76			
5650	66.66	PK	93	1.5	V	-1.95	64.71	68.2	-3.49			
5850	67.34	PK	115	2.0	H	-1.81	65.53	122.2	-56.67			
5850	69.3	PK	325	1.6	V	-1.81	67.49	122.2	-54.71			
5855	68.31	PK	301	1.9	H	-1.82	66.49	110.8	-44.31			
5855	68.56	PK	17	1.8	V	-1.82	66.74	110.8	-44.06			
5875	68.53	PK	321	2.1	H	-1.84	66.69	105.2	-38.51			
5875	68.9	PK	59	2.1	V	-1.84	67.06	105.2	-38.14			
5925	65.71	PK	342	1.8	H	-1.82	63.89	68.2	-4.31			
5925	66.63	PK	275	2.0	V	-1.82	64.81	68.2	-3.39			
11550	46.79	PK	307	1.9	H	6.61	53.4	74	-20.6			
11550	33.85	AV	307	1.9	H	6.61	40.46	54	-13.54			
11550	45.21	PK	292	1.5	V	6.61	51.82	74	-22.18			
11550	32.95	AV	292	1.5	V	6.61	39.56	54	-14.44			

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Corrected. Amplitude - Limit

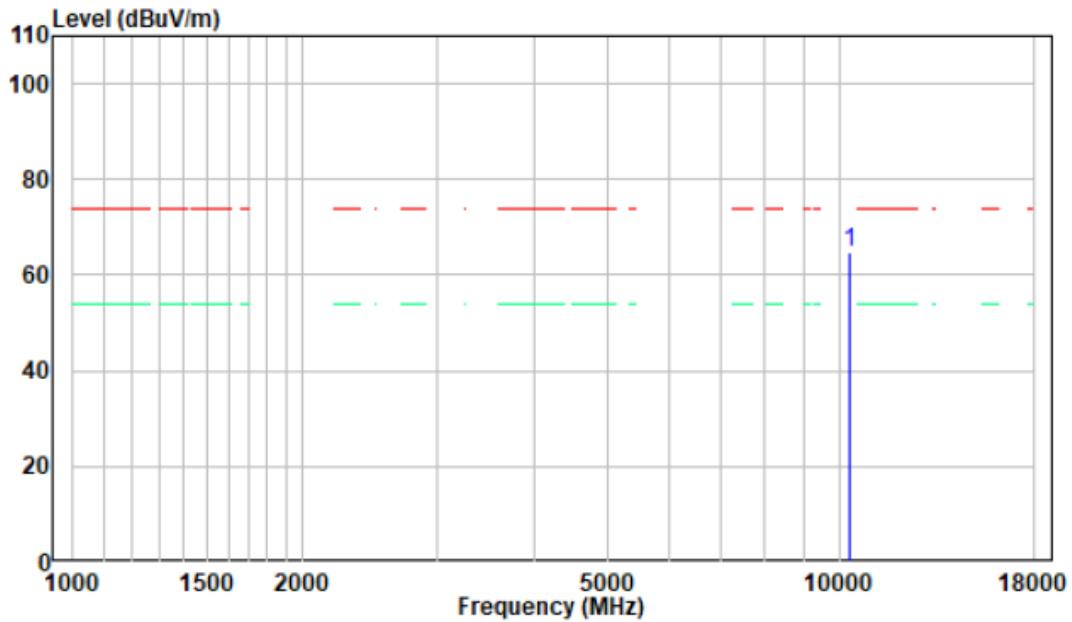
The other spurious emission which is in the noise floor level was not recorded.

The test result of peak was less than the limit of average, so just peak values were recorded.

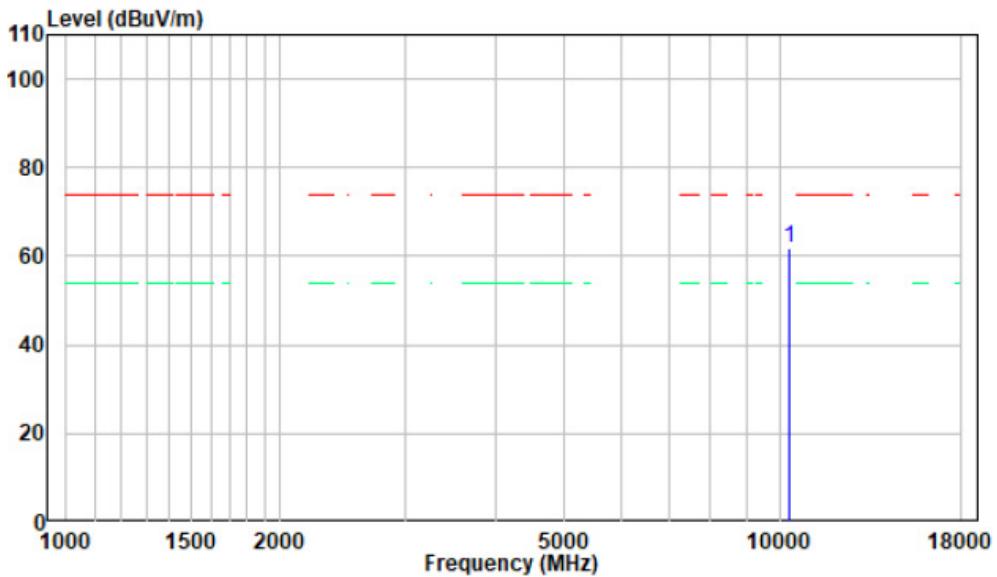
1 GHz - 18 GHz: (Pre-Scan plots)

802.11 a, 5180MHz

Horizontal



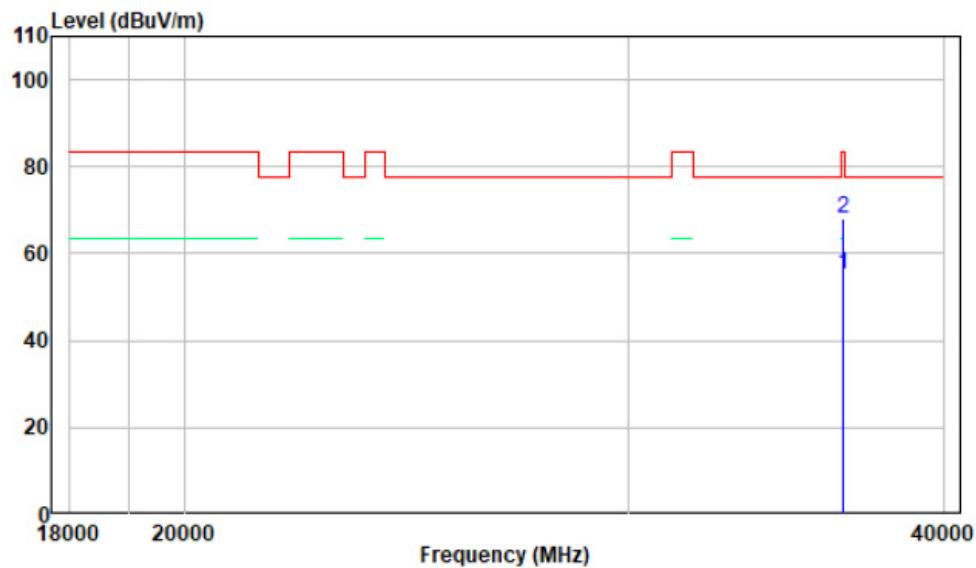
Vertical



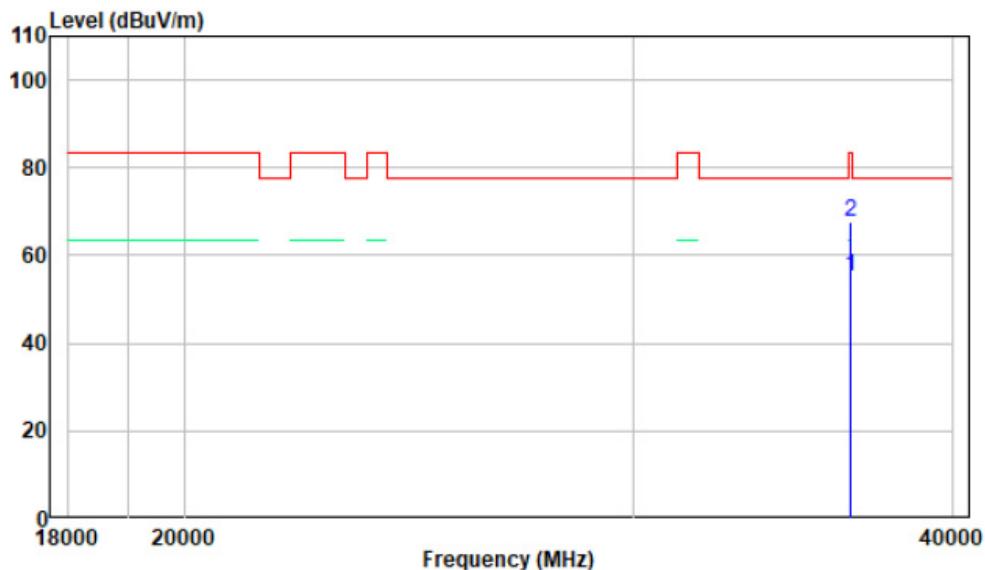
18-40GHz: (Pre-Scan plots)

802.11 a, 5180MHz

Horizontal



Vertical

******* END OF REPORT *******