## FCC 47 CFR PART 15 SUBPART C

Report No.: C180125Z01-S

## TEST REPORT

For

Smart TV Box
Model: SS-1000
Brand: N/A

Test Report Number:
C180125Z01-S

Issued for

# ATN Media Group FZ LLC Business Bay-alabrj st Business Towar By Damac.office-807, Dubai/UAE

Issued by:

#### COMPLIANCE CERTIFICATION SERVICES (SHENZHEN) INC.

No.10-1, Mingkeda Logistics Park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen China

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E-Mail: service@ccssz.com Issued Date: January 25, 2018



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FCC ID: 2AORJSS1000 Page 1 / 17

## **Revision History**

Report No.: C180125Z01-S

	. 5		Effect	
Rev.	Issue Date	Revisions	Page	Revised By
00	January 25, 2018	Initial Issue	ALL	Anna Liu

FCC ID: 2AORJSS1000 Page 2 / 17

## **TABLE OF CONTENTS**

Report No.: C180125Z01-S

1.	. TEST RESULT CERTIFICATION	4
2.	. EUT DESCRIPTION	5
3.	. TEST METHODOLOGY	6
	3.1 DESCRIPTION OF TEST MODES	6
	3.2 SETUP CONFIGURATION OF EUT	6
	3.3 SUPPORT EQUIPMENT	6
4.	. FACILITIES AND ACCREDITATIONS	7
	4.1 FACILITIES	7
	4.2 ACCREDITATIONS	7
	4.3 MEASUREMENT UNCERTAINTY	7
5.	. FCC PART 15.247 REQUIREMENTS	8
	5.1 RADIATED EMISSIONS	8

## 1. TEST RESULT CERTIFICATION

Product	Smart TV Box	
Model	SS-1000	
Brand	N/A	
Tested	January 25, 2018	
Applicant	ATN Media Group FZ LLC Business Bay-alabrj st Business Towar By Damac.office-807, Dubai/UAE	
Manufacturer	ATN Media Group FZ LLC Business Bay-alabrj st Business Towar By Damac.office-807, Dubai/UAE	

APPLICABLE STANDARDS			
STANDARD TEST RESULT			
FCC 47 CFR Part 15 Subpart C	No non-compliance noted		

## We hereby certify that:

The above equipment was tested by Compliance Certification Services (Shenzhen) Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.207, 15.209 and 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Reviewed by:

**Eve Wang** 

Supervisor of EMC Dept.

Compliance Certification Services (Shenzhen) Inc.

Nancy Fu

Supervisor of Report Dept.

Compliance Certification Services (Shenzhen) Inc.

Report No.: C180125Z01-S

## 2. EUT DESCRIPTION

Product	Smart TV Box
Model Number	SS-1000
Brand	N/A
Model Discrepancy	N/A
Identify Number	C180125Z01-S
Received Date	January 25, 2018
Power Supply	DC5V supplied by the adapter
Adapter I/P: AC100-240V, 50/60 Hz 0.7A MAX O/P: DC5V, 2A	
Modulation Technique	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Number of Channels	IEEE 802.11b mode: 11 Channels IEEE 802.11g mode: 11 Channels IEEE 802.11n HT20 MHz mode: 11 Channels IEEE 802.11n HT40 MHz mode: 7 Channels
Antenna Specification External Antenna with 3dBi gain (Max)	
Hardware Version V1.1	
Software Version	ATN-3.0.0 2017-03-18.134627

Report No.: C180125Z01-S

**Note:** This submittal(s) (test report) is intended for FCC ID: <u>2AORJSS1000</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

FCC ID: 2AORJSS1000 Page 5 / 17

## 3. TEST METHODOLOGY

## 3.1 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Use Certification Tool 1.26 to control the EUT for staying in continuous transmitting and receiving mode.

Report No.: C180125Z01-S

· <u> </u>	= -	
Test Item	Test mode	Worse mode
Radiated	Mode 1: TX	$\square$
Emission	Wode 1. 1A	

#### Note:

- 1. Channel Low (2402MHz), Mid (2441MHz) and High (2480MHz) were chosen for pre-testing for GFSK,  $\pi$ /4-DQPSK and 8DPSK, GFSK and 8DPSK were the worse case and print in the report.
- 2. Radiated band edges were tested with both fixed and hopping mode; the fixed mode was the worse case and recorded in the report.
- 3. For  $\pi/4$  QPSK its same modulation type with 8-DPSK, and based exploratory test, there is no significant difference of that two types test result, so except output power, all other items final test were only performed with the worst case 8-DPSK and GFSK.

## 3.2 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

#### 3.3 SUPPORT EQUIPMENT

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	LCD monitor	P2317H	NA	DoC	DELL	NA	Unshielded, 1.58m

#### Notes:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

FCC ID: 2AORJSS1000 Page 6 / 17

## 4. FACILITIES AND ACCREDITATIONS

## 4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.10-1, Mingkeda Logistics Park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.10:2013, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

Report No.: C180125Z01-S

## 4.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA A2LA China CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

**USA** FCC

**Japan** VCCI(C-4815, R-4320, T-2317, G-10624)

Canada INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, <a href="http://www.ccssz.com">http://www.ccssz.com</a>

#### 4.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Uncertainty
Radiated Emission, 30 to 200 MHz Test Site: 966(2)	+/-3.6880dB
Radiated Emission, 200 to 1000 MHz Test Site: 966(2)	+/-3.6695dB
Radiated Emission, 1 to 8 GHz	+/-5.1782dB
Radiated Emission, 8 to 18 GHz	+/-5.2173dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The measured result is above (below) the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the 95% level of confidence. However, the result indicates that compliance (non-compliance) is more probable than non-compliance) with the specification limit.

FCC ID: 2AORJSS1000 Page 7 / 17

## 5. FCC PART 15.247 REQUIREMENTS

## **5.1 RADIATED EMISSIONS**

## LIMIT

1. Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Report No.: C180125Z01-S

Frequency (MHz)	Field Strength (mV/m)	Measurement Distance (m)
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:** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the above emission table, the tighter limit applies at the band edges.

Frequency (Hz)	Field Strength (µV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

FCC ID: 2AORJSS1000 Page 8 / 17

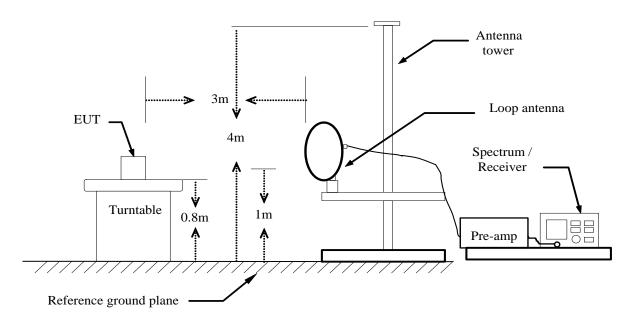
## **MEASUREMENT EQUIPMENT USED**

Radiated Emission Test Site 966(2)						
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration	
PSA Series Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2017	02/20/2018	
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2017	02/20/2018	
Amplifier	EMEC	EM330	060661	03/18/2017	03/17/2018	
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2017	02/20/2018	
Loop Antenna	COM-POWER	AL-130	121044	09/25/2017	09/24/2018	
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2017	02/20/2018	
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/27/2017	02/27/2018	
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/27/2017	02/27/2018	
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R	
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R	
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R	
Controller	СТ	N/A	N/A	N.C.R	N.C.R	
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2017	02/20/2018	
Test S/W FARAD			LZ-RF / CCS	S-SZ-3A2		

Report No.: C180125Z01-S

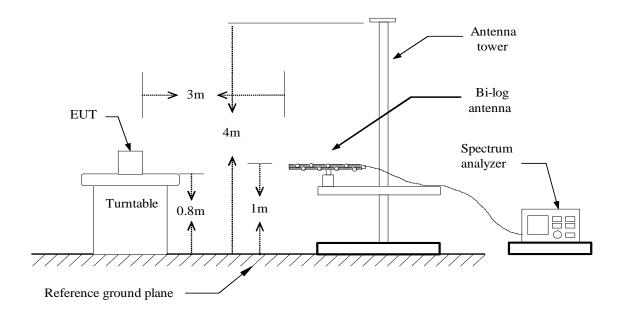
Remark: Each piece of equipment is scheduled for calibration once a year.

# Test Configuration Below 30MHz



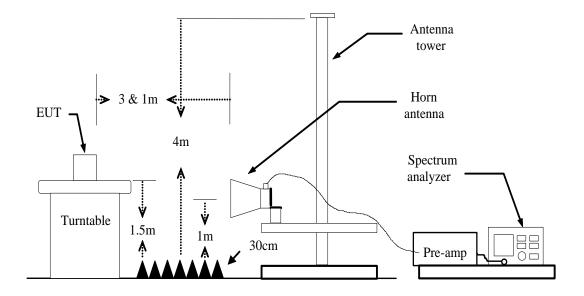
FCC ID: 2AORJSS1000 Page 9 / 17

## **Below 1 GHz**



Report No.: C180125Z01-S

## **Above 1 GHz**



FCC ID: 2AORJSS1000 Page 10 / 17

## **MEASURING SETTING**

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted	1MHz / 1MHz for Peak, 1 MHz / 1/T for
band)	Average
RB / VB (Emission in non-restricted	1MHz / 1MHz for Peak, 1 MHz / 1/T for
band)	Average

Report No.: C180125Z01-S

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

## **TEST PROCEDURE**

## 1) Sequence of testing 9 kHz to 30 MHz

## Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

## Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 0.8 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

FCC ID: 2AORJSS1000 Page 11 / 17

#### **Final measurement:**

- --- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).
- --- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

Report No.: C180125Z01-S

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

## 2) Sequence of testing 30 MHz to 1 GHz

## Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

#### Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 3 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

FCC ID: 2AORJSS1000 Page 12 / 17

#### **Final measurement:**

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

Report No.: C180125Z01-S

- --- The final measurement will be done with QP detector with an EMI receiver.
- --- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

## 3) Sequence of testing 1 GHz to 18 GHz

## Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.
- --- The EUT was set into operation.

#### Pre measurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height scan range is 1 meter to 2.5 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

FCC ID: 2AORJSS1000 Page 13 / 17

#### **Final measurement:**

- --- The final measurement will be performed with minimum the six highest peaks.
- --- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

Report No.: C180125Z01-S

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector. --- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement with marked maximum final measurements and the limit will be stored.

## 4) Sequence of testing above 18 GHz Setup:

- --- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- --- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.
- --- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.
- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 1 meter.
- --- The EUT was set into operation.

#### Pre measurement:

--- The antenna is moved spherical over the EUT in different polarisations of the antenna.

#### **Final measurement:**

- --- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.
- --- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

FCC ID: 2AORJSS1000 Page 14 / 17

## **TEST RESULTS**

**Above 1 GHz** 

Test Mode: TX / IEEE 802.11b (CH Low) Tested by: Darry Wu

Report No.: C180125Z01-S

Ambient temperature: 24°C Relative humidity: 52% RH Date: January 11, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1414.000	48.69	-7.03	41.66	74.00	-32.34	V	peak
1855.000	51.39	-5.92	45.47	74.00	-28.53	V	peak
2224.000	44.32	-3.77	40.55	74.00	-33.45	V	peak
2971.000	45.44	-1.41	44.03	74.00	-29.97	V	peak
3709.000	43.76	0.36	44.12	74.00	-29.88	V	peak
4879.000	40.99	4.59	45.58	74.00	-28.42	V	peak
1027.000	55.56	-8.45	47.11	74.00	-26.89	Н	Peak
1855.000	54.90	-5.92	48.98	74.00	-25.02	Н	Peak
2971.000	47.55	-1.41	46.14	74.00	-27.86	Н	Peak
3709.000	44.99	0.36	45.35	74.00	-28.65	Н	Peak
4825.000	41.48	4.41	45.89	74.00	-28.11	Н	peak
6058.000	40.46	6.17	46.63	74.00	-27.37	Н	peak

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
  - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 3MHz, Sweep time = auto. b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto.
- 5. Frequency (MHz). = Emission frequency in MHz
  - Reading (dB $\mu$ V/m) = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain
  - Limit ( $dB\mu V/m$ ) = Limit stated in standard

Margin (dB) = Result (dB $\mu$ V/m)- Limit (dB $\mu$ V/m)

Peak =Peak Reading AVG. =Average Reading

Remark = Mark Peak Reading or Average Reading

FCC ID: 2AORJSS1000 Page 15 / 17

Test Mode: TX / IEEE 802.11b (CH Mid)

Tested by: Darry Wu

Report No.: C180125Z01-S

Ambient temperature: 24°C Relative humidity: 52% RH Date: January 11, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1261.000	46.42	-7.57	38.85	74.00	-35.15	V	peak
2512.000	44.08	-2.24	41.84	74.00	-32.16	V	peak
3061.000	42.44	-1.26	41.18	74.00	-32.82	V	peak
3781.000	41.85	0.67	42.52	74.00	-31.48	V	peak
4357.000	41.65	2.85	44.50	74.00	-29.50	V	peak
4870.000	42.33	4.56	46.89	74.00	-27.11	V	peak
1909.000	47.59	-5.58	42.01	74.00	-31.99	Н	Peak
2512.000	43.70	-2.24	41.46	74.00	-32.54	Н	Peak
3376.000	41.65	-0.73	40.92	74.00	-33.08	Н	Peak
4024.000	40.58	1.67	42.25	74.00	-31.75	Н	peak
5140.000	41.07	5.23	46.30	74.00	-27.70	Н	peak
6814.000	40.30	7.40	47.70	74.00	-26.30	Н	peak

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
  - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 3MHz, Sweep time = auto. b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto.
- 5. Frequency (MHz). = Emission frequency in MHz

Reading (dBµV/m) = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

Limit ( $dB\mu V/m$ ) = Limit stated in standard

Margin (dB) = Result (dB $\mu$ V/m)- Limit (dB $\mu$ V/m)

Peak =Peak Reading AVG. =Average Reading

Remark = Mark Peak Reading or Average Reading

FCC ID: 2AORJSS1000 Page 16 / 17

Test Mode: TX / IEEE 802.11b (CH High)
Tested by: Darry Wu

Report No.: C180125Z01-S

Ambient temperature: 24°C Relative humidity: 52% RH Date: January 11, 2018

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
1324.000	46.38	-7.34	39.04	74.00	-34.96	V	peak
2557.000	43.41	-2.16	41.25	74.00	-32.75	V	peak
3691.000	41.02	0.29	41.31	74.00	-32.69	V	peak
4177.000	40.98	2.21	43.19	74.00	-30.81	V	peak
5149.000	41.41	5.25	46.66	74.00	-27.34	V	peak
6175.000	39.61	6.36	45.97	74.00	-28.03	V	peak
1504.000	46.30	-6.87	39.43	74.00	-34.57	Н	Peak
2251.000	43.72	-3.62	40.10	74.00	-33.90	Н	Peak
2503.000	44.19	-2.25	41.94	74.00	-32.06	Н	Peak
4249.000	41.27	2.47	43.74	74.00	-30.26	Н	peak
5329.000	40.29	5.57	45.86	74.00	-28.14	Н	peak
6949.000	40.55	7.62	48.17	74.00	-25.83	Н	peak

#### Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
  - a. Peak Setting 1GHz 26GHz, RBW = 1MHz, VBW = 3MHz, Sweep time = auto. b. AV Setting 1GH z- 26GHz, RBW = 1MHz, VBW = 10Hz, Sweep time = auto.
- 5. Frequency (MHz). = Emission frequency in MHz

Reading (dB $\mu$ V/m) = Uncorrected Analyzer / Receiver Reading Correction Factor (dB) = Antenna factor + Cable loss – Amplifier gain

Limit ( $dB\mu V/m$ ) = Limit stated in standard

Margin (dB) = Result (dB $\mu$ V/m)- Limit (dB $\mu$ V/m)

Peak =Peak Reading AVG. =Average Reading

Remark = Mark Peak Reading or Average Reading

FCC ID: 2AORJSS1000 Page 17 / 17