



FCC RF Test Report

APPLICANT : Volansys Technologies Pvt Ltd.
EQUIPMENT : Modular IoT Gateway
BRAND NAME : Volansys
MODEL NAME : VT-GTWY-6UL01-M2-M4
MARKETING NAME : Modular IoT Gateway
FCC ID : 2AKNO-GW6UL01M2M4
STANDARD : FCC Part 15 Subpart C §15.225
CLASSIFICATION : (DXX) Low Power Communication Device Transmitter

The product was received on Jul. 12, 2017 and testing was completed on Aug. 22, 2017. We, Sporton International (Shenzhen) Inc., 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 of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.

Approved by: Eric Shih / Manager



Sporton International (Shenzhen) Inc.

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Guangdong Province 518055 China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR771202D	Rev. 01	Initial issue of report	Aug. 24, 2017



SUMMARY OF THE TEST RESULT

Applied Standard: 47 CFR FCC Part 15 Subpart C / IC RSS-210 issue 9					
Part	FCC Rule	IC Rule	Description of Test	Result	Remark
3.1	15.207	RSS-GEN 8.8	AC Power Line Conducted Emissions	Complies	Under limit 3.83 dB at 13.560MHz
3.2	15.225(a)(b)(c)	B.6	Field Strength of Fundamental Emissions	Complies	Max level 58.59 dB μ V/m at 13.560 MHz
3.3	15.225(d) 15.209	B.6	Radiated Emissions	Complies	Under limit 16.51 dB at 40.670 MHz
3.4	15.203	-	Antenna Requirements	Complies	-

Test Items	Uncertainty	Remark
AC Power Line Conducted Emissions	± 2.5 dB	Confidence levels of 95%
Radiated Emissions (30MHz~1000MHz)	± 5.1 dB	Confidence levels of 95%



1. GENERAL INFORMATION

1.1 Applicant

Volansys Technologies Pvt Ltd.

Block A-7th Floor, Safal Profitaire, Corporate Road, Prahaladnagar, Ahmedabad-380 015, Gujarat.
India

1.2 Manufacturer

Volansys Technologies Pvt Ltd.

Block A-7th Floor, Safal Profitaire, Corporate Road, Prahaladnagar, Ahmedabad-380 015, Gujarat.
India

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Modular IoT Gateway
Brand Name	Volansys
Model Name	VT-GTWY-6UL01-M2-M4
Marketing Name	Modular IoT Gateway
FCC ID	2AKNO-GW6UL01M2M4
EUT supports Radios application	NFC WLAN 2.4G 802.11b/g/n HT20/ Bluetooth 4.1 LE / v4.2 LE Zigbee/Thread: 250kpbs
HW Version	1.0
SW Version	test 1.2.0
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	13.553 ~ 13.567MHz
Channel Number	1
Antenna Type	PCB trace Antenna
Type of Modulation	ASK

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Re-use of Measured Data

1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: VT-GTWY-6UL01-M2-M4, FCC ID: 2AKNO-GW6UL01M2M4) is electrically identical to the reference device (Model:VT-GTWY-6UL01-M4, FCC ID: 2AKNO-GW6UL01M4) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 178919 D01.

1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Operational Description.

The re-used RF data includes the following bands provided in Appendix D (RF Report No. C170223Z01-RP1-4 for the reference device Model:VT-GTWY-6UL01-M4, FCC ID: 2AKNO-GW6UL01M4):

1.6.3 Spot Check Verification Data Section

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for radiated spurious emission, the test result were consistent with FCC ID: 2AKNO-GW6UL01M4.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

1.6.4 Reference detail Section:

Equipment Class	Reference FCC ID	Folder Test/RF Exposure	Report Title/Section
DTS (BLE)	2AKNO-GW6UL01M4	Part15C(C170223Z01-RP1-2)	All conducted sections applicable for Bluetooth 4.1 LE
DTS (WLAN)	2AKNO-GW6UL01M4	Part15C(C170223Z01-RP1-1)	All conducted sections applicable
DTS (Zigbee)	2AKNO-GW6UL01M4	Part15C(C170223Z01-RP1-3)	All conducted sections applicable
DXX (NFC)	2AKNO-GW6UL01M4	Part15C(C170223Z01-RP1-4)	All conducted sections applicable

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600156-0) and the FCC designation No are CN5018 and CN5019.

Test Site	Sporton International (Shenzhen) Inc.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.
	CO01-SZ	251365
Test Engineer	Haohai Ye	
Temperature	22~25°C	
Relative Humidity	50~55%	

Test Site	SPORTON International (ShenZhen) INC.	
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan District Shenzhen City Guangdong Province 518055 China TEL: +86-755-3320-2398	
Test Site No.	Sporton Site No.	FCC Test Firm Registration No.
	03CH01-SZ	577730
Test Engineer	Lun Liu	
Temperature	24~25°C	
Relative Humidity	48~49%	

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

1.8 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.225
- ♦ ANSI C63.10-2013
- ♦ IC RSS-210 Issue 9
- ♦ IC RSS-Gen Issue 4

2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations for searching the worst cases.

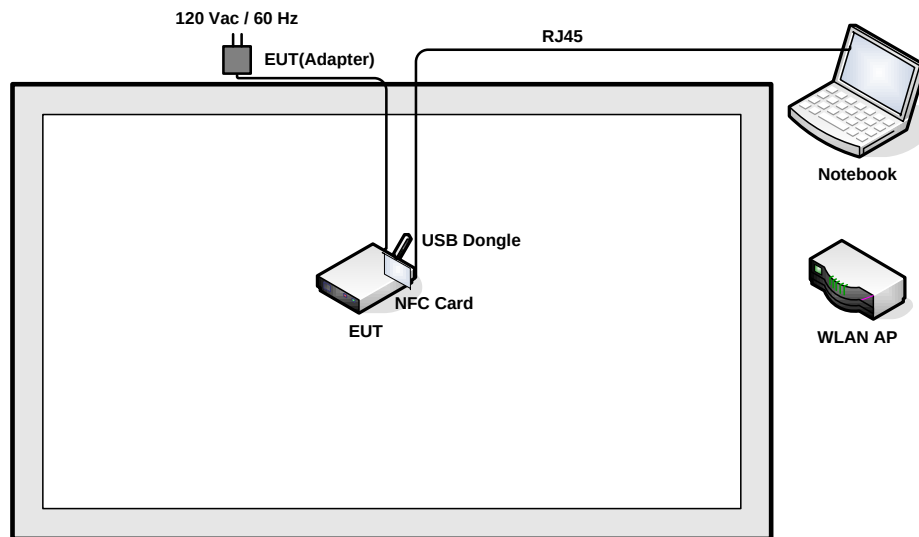
The following table is a list of the test modes shown in this test report.

Test Items	
AC Power Line Conducted Emissions	Field Strength of Fundamental Emissions
Radiated Emissions 9kHz~30MHz	Radiated Emissions 30MHz~1GHz

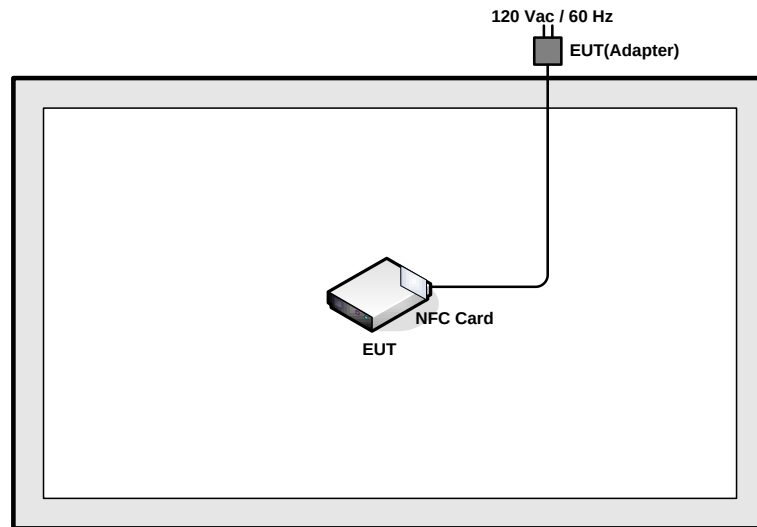
The EUT pre-scanned in four NFC type, A, B, F, V. The worst type (type A) was recorded in this report.

2.2 Connection Diagram of Test System

<AC Conducted Emissions>



< For Fundamental Emissions and Mask and Radiated Emissions Measurement >



2.3 Table for Supporting Units

Support Unit	Manufacturer	Model	FCC ID
WLAN AP	D-Link	DIR-855	KA2DIR855A2
Notebook	Lenovo	E450	FCC DoC
SD Card	Kingstone	8G	N/A
USB Dongle	N/A	N/A	N/A
NFC Card	N/A	N/A	N/A

2.4 EUT Operation Test Setup

The EUT was programmed to be in continuously transmitting mode.

The ancillary equipment, NFC card, is used to make the EUT (NFC) continuously transmit at 13.56MHz and is placed around 3 cm gap to the EUT.

3. TEST RESULTS

3.1 AC Power Line Conducted Emissions Measurement

3.1.1 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 (dB μ V)	
	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.

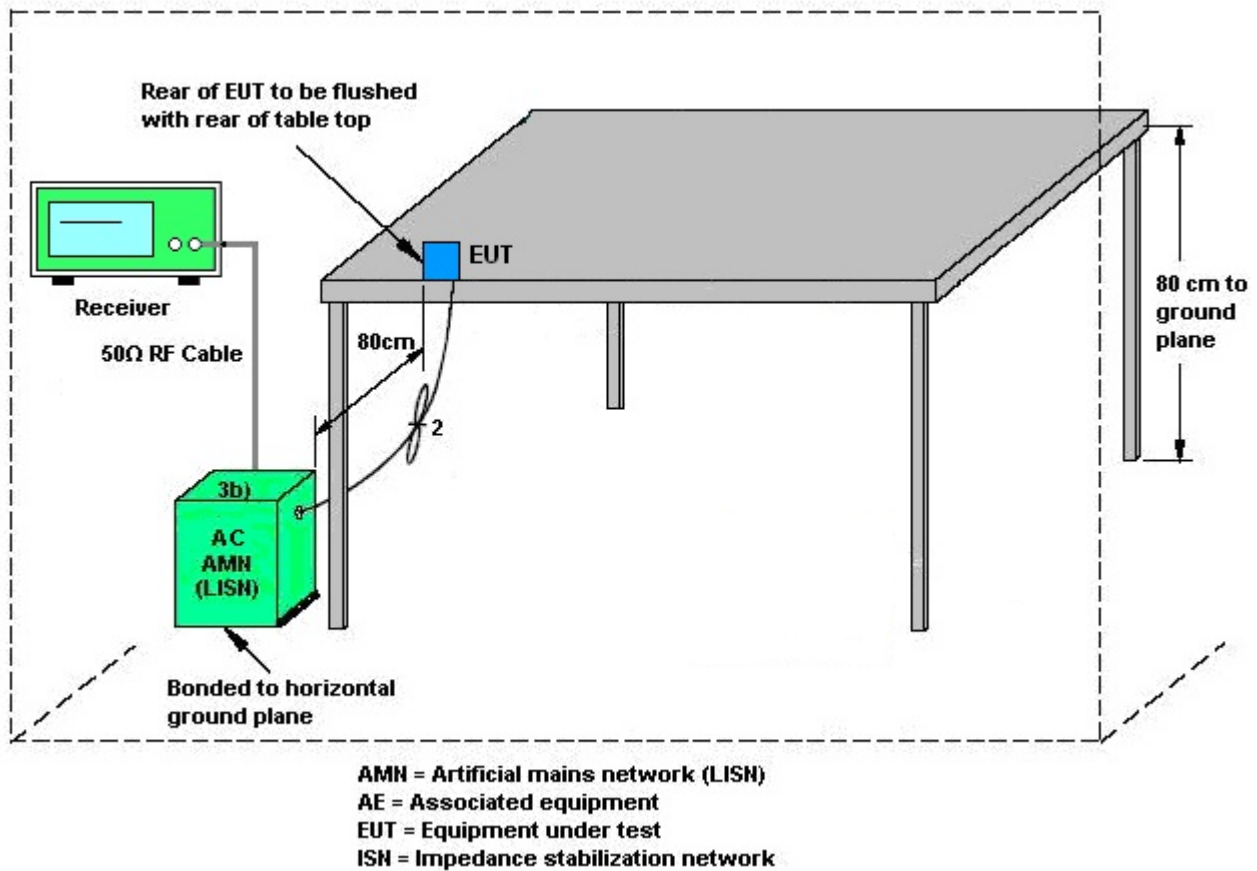
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was 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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4 Test setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

3.2 Field Strength of Fundamental Emissions and Mask Measurement

3.2.1 Limit

Rules and specifications	FCC CFR 47 Part 15 section 15.225			
	IC RSS-210 B.6			
Description	Compliance with the spectrum mask is tested with RBW set to 9kHz.			
Freq. of Emission (MHz)	Field Strength (μ V/m) at 30m	Field Strength (dB μ V/m) at 30m	Field Strength (dB μ V/m) at 10m	Field Strength (dB μ V/m) at 3m
1.705~13.110	30	29.5	48.58	69.5
13.110~13.410	106	40.5	59.58	80.5
13.410~13.553	334	50.5	69.58	90.5
13.553~13.567	15848	84.0	103.08	124.0
13.567~13.710	334	50.5	69.58	90.5
13.710~14.010	106	40.5	59.58	80.5
14.010~30.000	30	29.5	48.58	69.5

3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure QP reading.

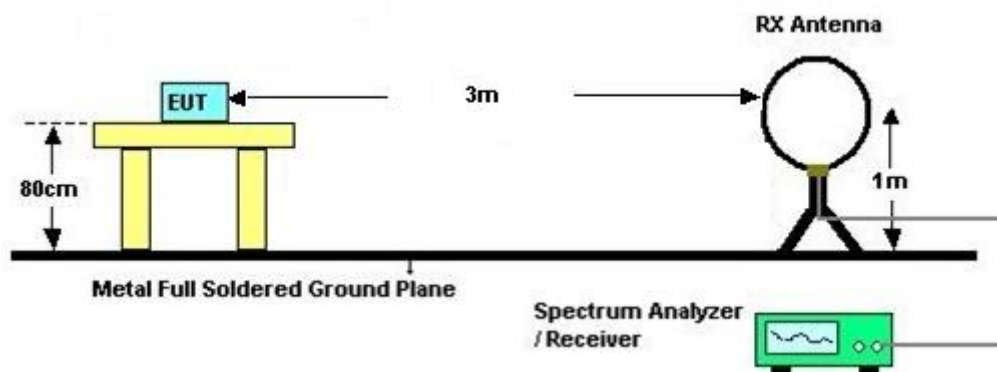
5. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

6. Compliance with the spectrum mask is tested with RBW set to 9kHz.

Note: Emission level (dB μ V/m) = 20 log Emission level (μ V/m).

3.2.4 Test Setup

For radiated emissions below 30MHz



3.2.5 Test Result of Field Strength of Fundamental Emissions and Mask

Please refer to Appendix B.

3.3 Radiated Emissions Measurement

3.3.1 Limit

The field strength of any emissions which appear outside of 13.110 ~14.010MHz band shall not exceed the general radiated emissions limits.

Frequencies (MHz)	Field Strength (μ V/m)	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

3.3.2 Measuring Instruments

See list of measuring instruments of this test report.

3.3.3 Measuring Instrument Setting

The following table is the setting of receiver.

Receiver Parameter	Setting
Attenuation	Auto
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

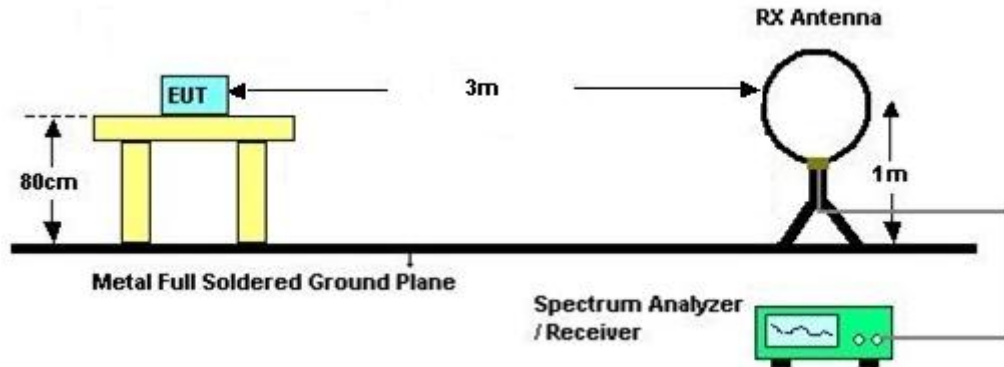
Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

3.3.4 Test Procedures

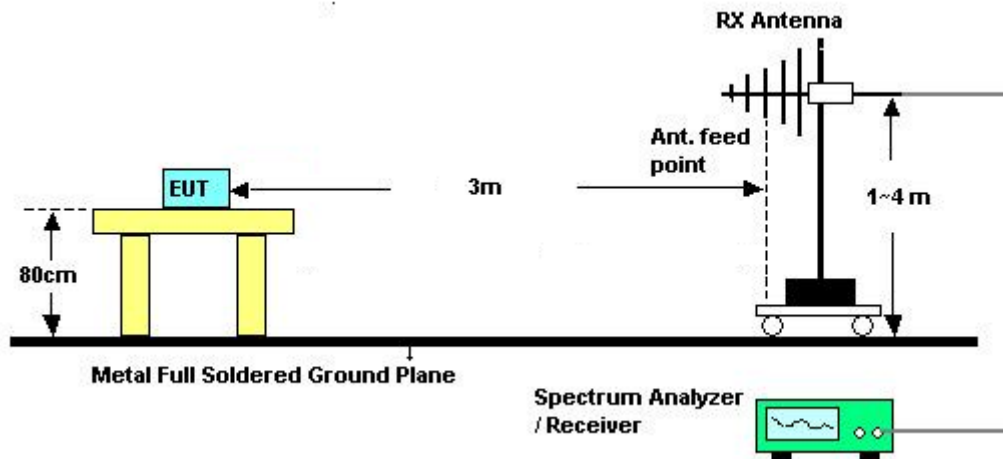
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
7. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. Antenna Requirements

3.3.5 Test Setup

For radiated emissions below 30MHz



For radiated emissions above 30MHz



3.3.6 Test Result of Radiated Emissions Measurement

Please refer to Appendix B.



3.4 Antenna Requirements

3.4.1 Standard Applicable

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. 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 the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

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 FCC rule.

3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.



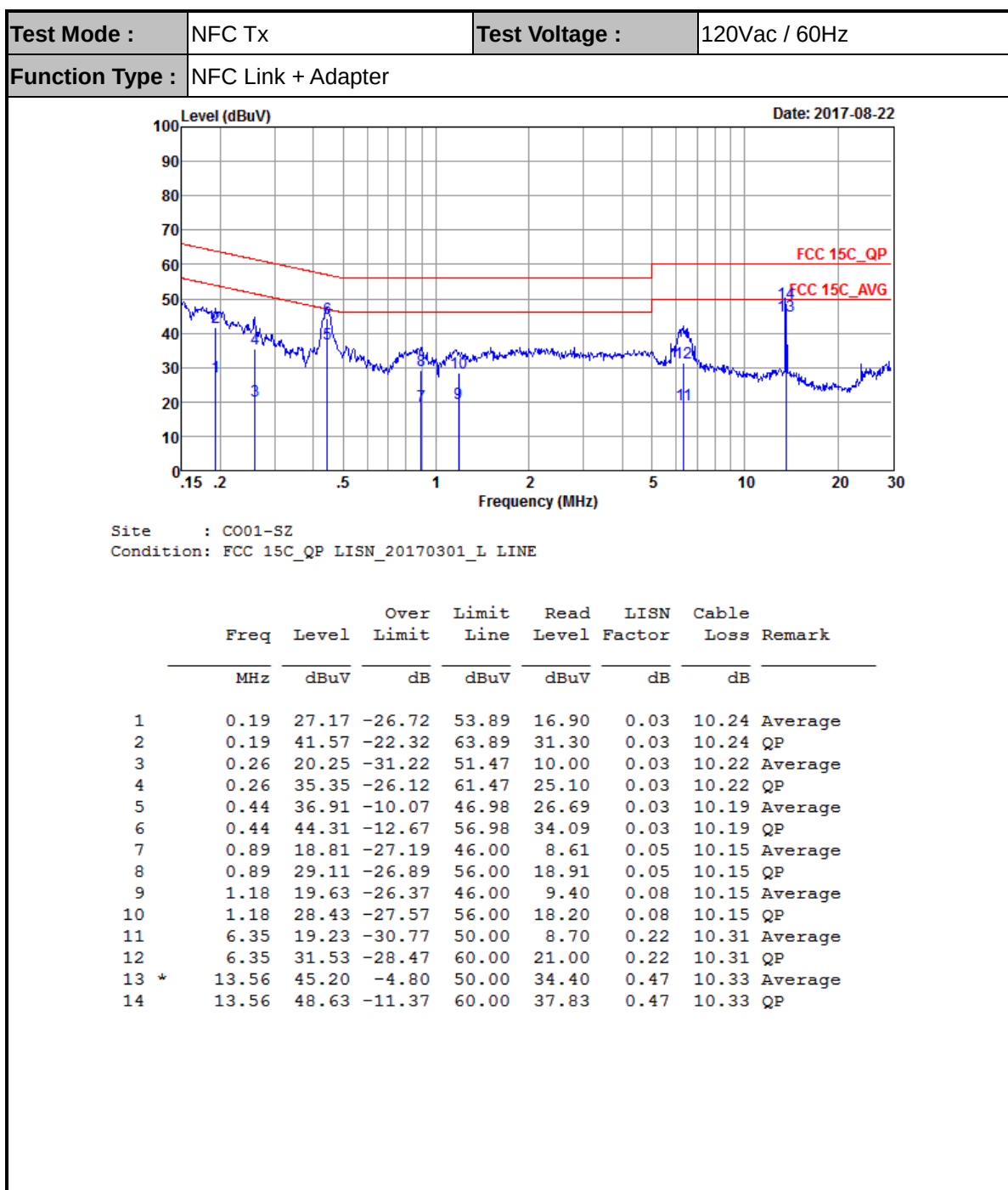
4. LIST OF MEASURING EQUIPMENT

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Apr. 20, 2017	Aug. 07, 2017~ Aug. 22, 2017	Apr. 19, 2018	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	May 14, 2017	Aug. 07, 2017~ Aug. 22, 2017	May 13, 2018	Radiation (03CH01-KS)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz-2GHz	Apr. 25, 2017	Aug. 07, 2017~ Aug. 22, 2017	Apr. 24, 2018	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 20, 2017	Aug. 07, 2017~ Aug. 22, 2017	Apr. 19, 2018	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Aug. 07, 2017~ Aug. 22, 2017	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 07, 2017~ Aug. 22, 2017	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 07, 2017~ Aug. 22, 2017	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jan. 06, 2017	Aug. 22, 2017	Jan. 05, 2018	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2SH	00103912	9kHz~30MHz	Jan. 05, 2017	Aug. 22, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	MessTec	3816/2SH	00103892	9kHz~30MHz	Jan. 05, 2017	Aug. 22, 2017	Jan. 04, 2018	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 19, 2017	Aug. 22, 2017	Jul. 18, 2018	Conduction (CO01-SZ)

NCR: No Calibration Required

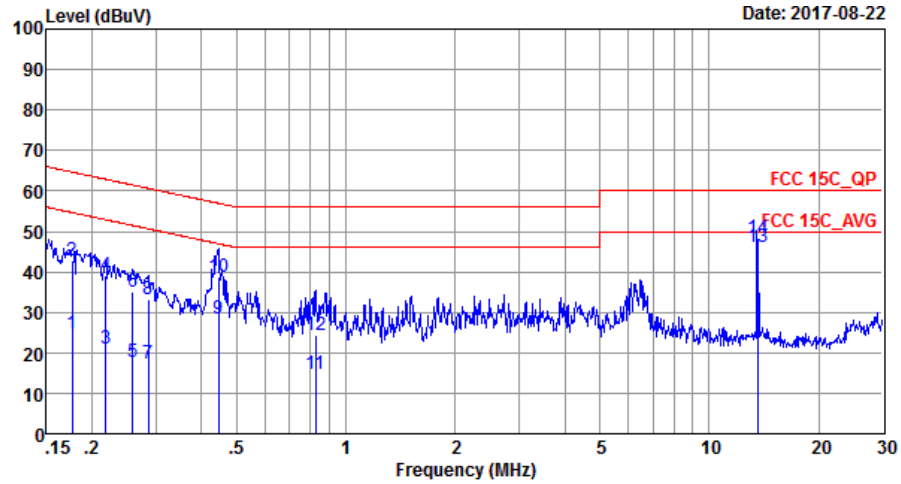


Appendix A. Test Results of Conducted Emission Test





Test Mode :	NFC Tx	Test Voltage :	120Vac / 60Hz
Function Type :	NFC Link + Adapter		



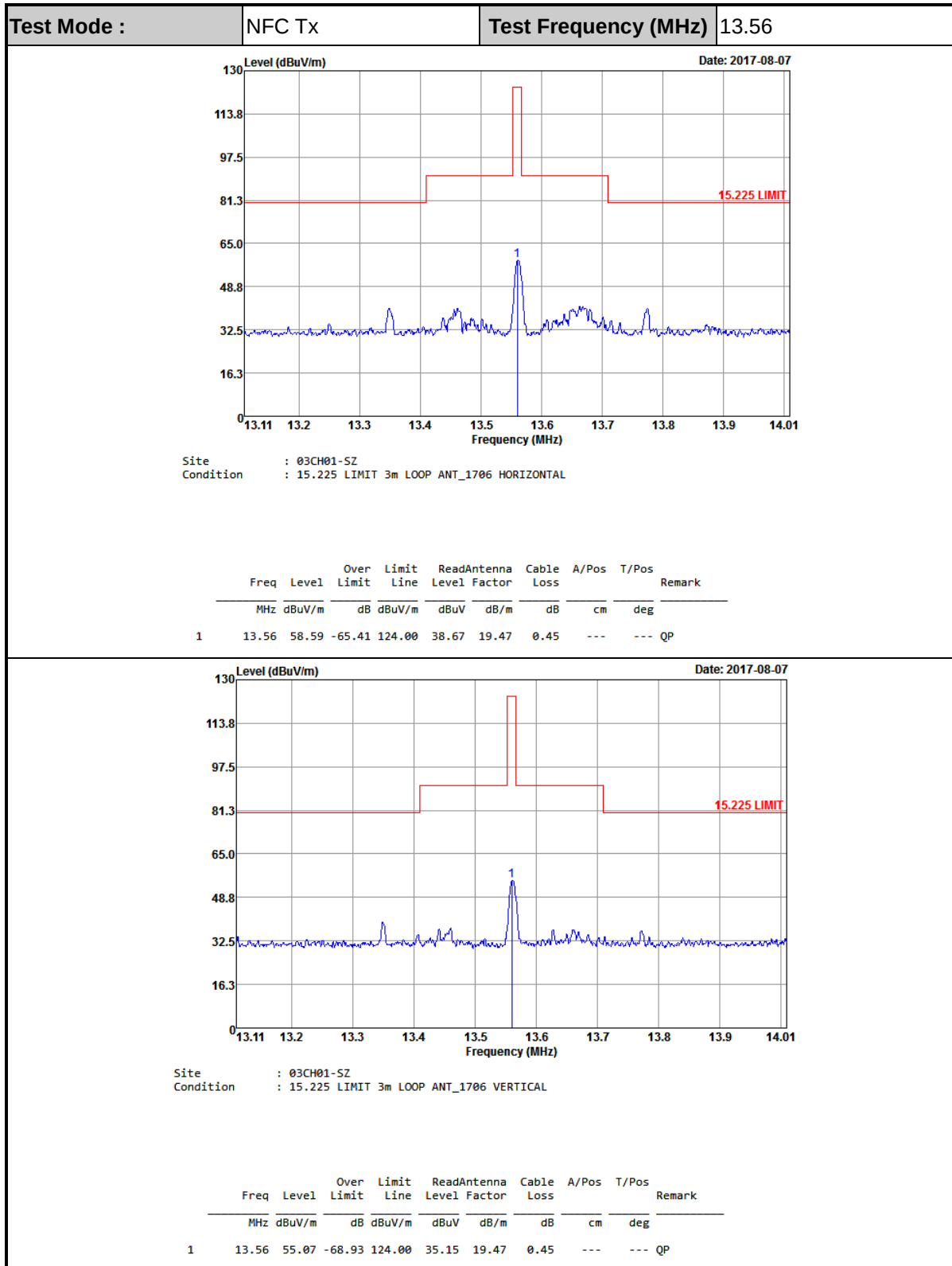
Site : CO01-SZ
Condition: FCC 15C_QP LISN_20170301_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.18	24.73	-29.91	54.64	14.40	0.03	10.30	Average
2	0.18	42.63	-22.01	64.64	32.30	0.03	10.30	QP
3	0.22	21.05	-31.83	52.88	10.80	0.03	10.22	Average
4	0.22	39.25	-23.63	62.88	29.00	0.03	10.22	QP
5	0.26	17.65	-33.82	51.47	7.40	0.03	10.22	Average
6	0.26	35.15	-26.32	61.47	24.90	0.03	10.22	QP
7	0.29	17.35	-33.28	50.63	7.10	0.03	10.22	Average
8	0.29	33.25	-27.38	60.63	23.00	0.03	10.22	QP
9	0.45	28.51	-18.42	46.93	18.30	0.02	10.19	Average
10	0.45	38.61	-18.32	56.93	28.40	0.02	10.19	QP
11	0.83	14.79	-31.21	46.00	4.60	0.03	10.16	Average
12	0.83	24.49	-31.51	56.00	14.30	0.03	10.16	QP
13 *	13.56	46.17	-3.83	50.00	35.55	0.29	10.33	Average
14	13.56	48.30	-11.70	60.00	37.68	0.29	10.33	QP



Appendix B. Test Results of Radiated Test Items

B1. Test Result of Field Strength of Fundamental Emissions



B2. Results of Radiated Spurious Emissions (9 kHz~30MHz)

Test Mode :	NFC Tx	Polarization :	Horizontal
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Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01	50.03	-77.6	127.63	28.98	21	0.05	-	-	Average
0.06	45.49	-66.31	111.8	24.93	20.5	0.06	-	-	Average
0.09	41.31	-66.84	108.15	20.54	20.7	0.07	-	-	QP
0.13	37.84	-67.4	105.24	17.16	20.6	0.08	-	-	Average
0.22	57.39	-43.43	100.82	36.97	20.32	0.1	-	-	Average
2.01	40.12	-29.88	70	19.39	20.55	0.18	-	-	QP
23.61	34.57	-35.43	70	14.65	19.35	0.57	-	-	QP
26.12	34.23	-35.77	70	14.03	19.59	0.61	-	-	QP

Test Mode :	NFC Tx	Polarization :	Vertical
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Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
0.01	49.09	-79.14	128.23	28.04	21	0.05	-	-	Average
0.06	38.72	-73.06	111.78	18.16	20.5	0.06	-	-	Average
0.12	38.98	-67.36	106.34	18.3	20.6	0.08	-	-	Average
0.12	34.45	-71.27	105.72	13.77	20.6	0.08	-	-	Average
0.69	54.26	-16.56	70.82	33.69	20.48	0.09	-	-	QP
2.01	36.22	-33.78	70	15.49	20.55	0.18	-	-	QP
18.09	34.16	-35.84	70	14.1	19.55	0.51	-	-	QP
29.70	36.34	-33.66	70	16.09	19.58	0.67	-	-	QP

Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
3. Limit line = specific limits (dBμV) + distance extrapolation factor.

B3. Results of Radiated Spurious Emissions (30MHz~1GHz)

Test Mode :	NFC Tx	Polarization :	Horizontal
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Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
33.88	24.56	-24.98	49.54	30.95	24.96	0.3	31.65	-	-	Peak
190.05	28.78	-25.2	53.98	42.23	16.24	1.55	31.24	-	-	Peak
217.21	29.63	-27.27	56.9	42.54	16.55	1.7	31.16	-	-	Peak
400.54	34.1	-22.8	56.9	41.59	21.42	2.39	31.3	-	-	Peak
500.45	34.92	-21.98	56.9	40.31	23.3	2.71	31.4	-	-	Peak
792.42	37.1	-19.8	56.9	38.06	26.95	3.59	31.5	100	155	Peak

Test Mode :	NFC Tx	Polarization :	Vertical
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Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Remark
40.67	33.03	-16.51	49.54	42.31	21.78	0.39	31.45	155	203	Peak
190.05	23.71	-30.27	53.98	37.16	16.24	1.55	31.24	-	-	Peak
217.21	25.45	-31.45	56.9	38.36	16.55	1.7	31.16	-	-	Peak
299.66	28.34	-28.56	56.9	39.4	18.2	2.04	31.3	-	-	Peak
400.54	33.55	-23.35	56.9	41.04	21.42	2.39	31.3	-	-	Peak
500.45	37.05	-19.85	56.9	42.44	23.3	2.71	31.4	-	-	Peak

Note:

1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Emission level (dBμV/m) = 20 log Emission level (μV/m).
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor= Level.



Appendix D. Reference Report

Please refer to report number C170223Z01-RP1-4 which is issued separately.