

TEST REPORT

Product Name : SMART QX/V4 NFC Module

Model Number : IDNMOD1

FCC ID : QCI-IDNMOD1

Prepared for : SMART Technologies ULC

Address : 3636 Research Road NW, Calgary AB T2L 1Y1, Canada

Prepared by : EMTEK (SHENZHEN) CO., LTD.

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Report Number : ENS2207110035W00301R

Date(s) of Tests : July 13, 2022 to September 16, 2022

Date of issue : September 17, 2022



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TEST RESULT CERTIFICATION

Applicant : SMART Technologies ULC

Address: 3636 Research Road NW, Calgary AB T2L 1Y1, Canada

Manufacturer : SMART Technologies ULC

Address: 3636 Research Road NW, Calgary AB T2L 1Y1, Canada

EUT : SMART QX/V4 NFC Module

Model Name : IDNMOD1

Trademark : SMAT

Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD TEST RESULT			
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS		

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD. 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 the requirements of FCC Rules Part 2 and Part 15.225.

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

Date of Test :	July 13, 2022 to September 16, 2022
Prepared by :	Una yu
	Una Yu /Editor
	Foe Xid
Reviewer:	SHENZHEN
	Joe Xia /Supervisor
Approve & Authorized Signer :	
	Lisa Wang/Manager



1 EUT TECHNICAL DESCRIPTION

Characteristics	Description		
Device Type:	RFID		
Modulation:	ASK modulation		
Operating Frequency Range(s):	13.553-13.567MHz		
Channel Frequency:	13.56MHz		
Number of Channels:	1 channel		
Antenna Type :	PCB antenna		
Host device brand name	SMART Board		
Host Device model	IDX86-4, SBID-MX086-V4, IDQX86-1, SBID-QX086, SBID-QX086-P, SBID-QX286, SBID-QX286-P IDX75-4, SBID-MX075-V4, IDQX75-1, SBID-QX075, SBID-QX075-P, SBID-QX275, SBID-QX275-P IDX65-4, SBID-MX065-V4, IDQX65-1, SBID-QX065, SBID-QX065-P, SBID-QX265, SBID-QX265-P IDX55-4, SBID-MX055-V4		
Test Voltage	5V-,1A		
Temperature Range	-20°C ~ +60°C		

Note: for more details, please refer to the User's manual of the EUT.



2 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark		
2.1049	Occupied Bandwidth	PASS			
15.225(e)	Frequency stability	PASS			
15.225(d) 15.209	Radiated Spurious Emissions	PASS			
15.207	Conducted Emission	PASS			
NOTE1: N/A (Not Applicable)					

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: QCI-IDNMOD1 filing to comply with Section 15.225 of the FCC Part 15, Subpart C Rules.



3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C

3.2 MEASUREMENT EQUIPMENT USED

3.2.1 Conducted Emission Test Equipment

EQUIPMENT	MFR	MODEL	SERIAL	LAST CAL.
TYPE		NUMBER	NUMBER	
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/14/2022
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/14/2022
50Ω Coaxial Switch	Anritsu	MP59B	M20531	N/A

3.2.2 Radiated Emission Test Equipment

EQUIPMENT	MFR	MODEL	SERIAL	LAST CAL.
TYPE		NUMBER	NUMBER	
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/14/2022
Pre-Amplifier	HP	8447D	2944A07999	05/14/2022
Bilog Antenna	Schwarzbeck	VULB9163	142	05/14/2022
Loop Antenna	ARA	PLA-1030/B	1029	05/14/2022
Cable	Schwarzbeck	AK9513	ACRX1	05/14/2022
Cable	Rosenberger	N/A	FP2RX2	05/14/2022
Cable	Schwarzbeck	AK9513	CRPX1	05/14/2022
Cable	Schwarzbeck	AK9513	CRRX2	05/14/2022

3.2.3 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.
		Y		
Spectrum Analyzer	Agilent	E4407B	88156318	05/14/2022
Signal Analyzer	Agilent	N9010A	My53470879	05/14/2022
Power meter	Anritsu	ML2495A	0824006	05/14/2022
Power sensor	Anritsu	MA2411B	0738172	05/14/2022

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



3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting mode is programmed.





4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

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

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS

The Certificate Registration Number is L2291.

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC

Designation Number: CN1204

Test Firm Registration Number: 882943

Accredited by A2LA

The Certificate Number is 4321.01.

Accredited by Industry Canada

The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK (SHENZHEN) CO., LTD.

Site Location : Building 69, Majialong Industry Zone,

Nanshan District, Shenzhen, Guangdong, China



5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Occupied Bandwidth Test	±1.0dB
All emission, radiated	±3dB
Temperature	±0.5°C
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%

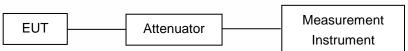




6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

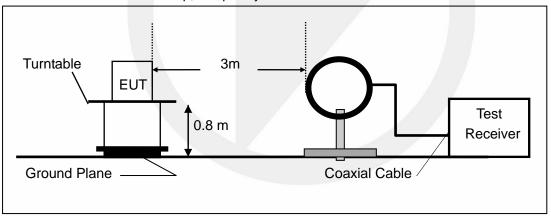
Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

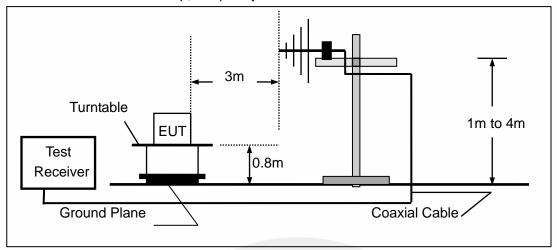
The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

(a) Radiated Emission Test Set-Up, Frequency Below 30MHz





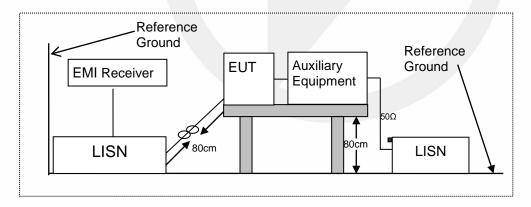
(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



6.3 CONDUCTED EMISSION TEST SETUP

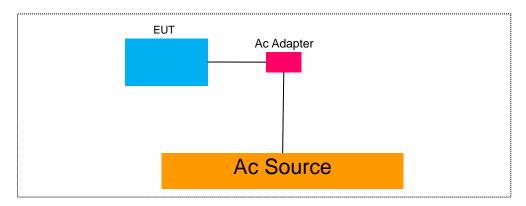
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN. Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



6.5 SUPPORT EQUIPMENT

EUT Cable List and Details						
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite			
1	1	/	/			
1	/_	1				

Auxiliary Cable List and Details						
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite			
/	/	/ /	/			

Auxiliary Equipment List and Details						
Description	Manufacturer	Model	Serial Number			
/	/	1	/			

Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. Unless otherwise denoted as EUT in <code>[Remark]</code> column, device(s) used in tested system is a support equipment



7 TEST REQUIREMENTS

7.1 OCCUPIED BANDWIDTH

7.1.1 Applicable Standard

According to FCC Part 2.1049

7.1.2 Conformance Limit

No limit requirement.

7.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.1.4 Test Procedure

The EUT was operating in transmit mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 1% occupied bandwidth (30Hz).

Set the video bandwidth (VBW) =3 times RBW.

Set Span= approximately 2 to 3 times the occupied bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 99% down one side of the emission. Reset the markerdelta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 99% bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

7.1.5 Test Results

	remperature :		25°C	rest Dat	e: Septer	nber 14, 2	022
	Humidity:		65 %	Test By:		XW	
Α							
	Modulation	Channel	Channel Frequ	iency	-20dB Measurement	Limit	
	Mode	Number	(MHz)		Bandwidth	(kHz)	Verdict
					(kHz)		
	ASK	0	13.56		0.467	N/A	PASS
	Note: N/A (Not	Applicable))				

В						
	Modulation Mode	Channel Number	Channel Frequency (MHz)	-20dB Measurement Bandwidth (kHz)	Limit (kHz)	Verdict
	ASK	0	13.56	0.483	N/A	PASS
	Note: N/A (Not	Applicable)				

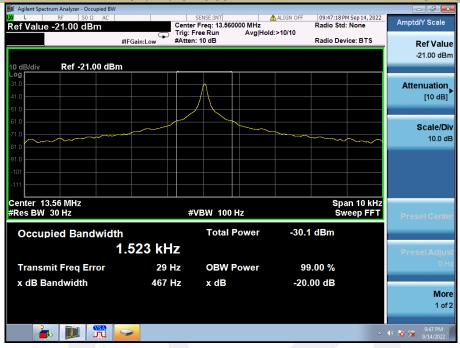


Α

Test Model

Occupied Bandwidth Channel 0: 13.56MHz

ASK Modulation



В

Test Model

Occupied Bandwidth

ASK Modulation





7.2 FREQUENCY STABILITY

7.2.1 Applicable Standard

According to FCC Part 2.1055

7.2.2 Conformance Limit

According to part 15.225(e), The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to ± 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

7.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

7.2.4 Test Procedures

Connect the EUT to frequency analyzer via the antenna connector.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

- (a) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. The short-term transient effects on the frequency of the transmitter due to keying (except for broadcast transmitters) and any heating element cycling normally occurring at each ambient temperature level also shall be shown. Only the portion or portions of the transmitter containing the frequency determining and stabilizing circuitry need be subjected to the temperature variation test.
- (b) The frequency stability shall be measured with variation of primary supply voltage as follows:
- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point, which shall be specified by the manufacturer.

7.2.5 Test Results



		Test Co Voltage (V)	ndition Temp (°C)	Channel Frequency (MHz)	Freq.Dev. (Hz)	Deviation (ppm)	Limit (ppm)
		(•)		40.500070	70.0	F 7F	400
			-20	13.560078	78.0	5.75	100
			-10	13.560049	49.0	3.61	100
			0	13.560061	61.0	4.50	100
Operation	Channel Number	\/====	10	13.560070	70.0	5.16	100
Mode		Vnom	20	13.560079	79.0	5.83	100
			30	13.560072	72.0	5.31	100
			40	13.560067	67.0	4.94	100
			50	13.560094	94.0	6.93	100
		85% Vnom	20	13.560076	76.0	5.60	100
			20	13.560073	73.0	5.38	100
	VERDICT				PAS	SS	



7.3 RADIATED SPURIOUS EMISSION

7.3.1 Applicable Standard

According to FCC Part 15.225 and 15.209

7.3.2 Conformance Limit

	Field Strength of Fundamental Emissions and Spectrum Mask										
Emissions	Emissions (uV/m)@30m (dBuV/m)@30m (dBuV/m)@10m (dBuV/m)@3m (dBuV/m)@1m										
Fundamental 15848 84.0 103.1 124.0 143.1											
Quasi peak measurement of the fundamental.											

	Spectrum Mask Freq. of (uV/m)@30m (dBuV/m)@30m (dBuV/m)@10m (dBuV/m)@3m (dBuV/m)@1m											
Freq. of	(dBuV/m)@1m											
Emission (MHz)												
1.705~13.110	30	29.5	48.6	69.5	88.6							
13.110~13.410	106	40.5	59.6	80.5	99.6							
13.410~13.553	334	50.5	69.6	90.5	109.6							
13.553~13.567	15848	84.0	103.1	124.0	143.1							
13.567~13.710	334	50.5	69.6	90.5	109.6							
13.710~14.010	106	40.5	59.6	80.5	99.6							
14.010~30.000	30	29.5	48.6	69.5	88.6							

According to FCC Part15,205. Restricted bands

710001ailig to 1 00 1 ait 10.	200, 110011101001001		
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

### ### ##############################			
Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	48.5 - 13.8	300
0.490-1.705	24000/F(KHz)	33.8 – 23.0	30
1.705-30	30	29.5	30
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3



7.3.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2

7.3.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for f < 1 GHz(30MHz to 1GHz), 200Hz for f<150KHz(9KHz to 150KHz), 9KHz for f<30MHz(150KHz to 30KHz)

VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

7.3.5 Test Results



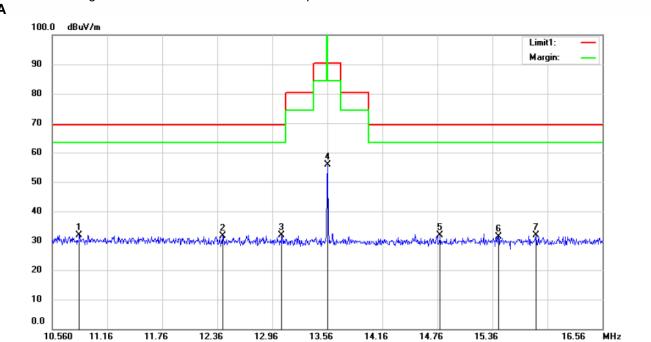
Temperature:

Humidity:

28.1 C

43 %

■ Field Strength of Fundamental Emissions and Spectrum Mask



Site 3m Chamber #1

Limit: (RE)FCC PART 15.225(Mask)

Mode:NFC(8.18)
Note: configuration A

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	10.8540	11.36	20.56	31.92	69.50	-37.58	peak			
2		12.4200	11.19	20.42	31.61	69.50	-37.89	peak			
3		13.0620	11.52	20.34	31.86	69.50	-37.64	peak			
4		13.5600	35.44	20.32	55.76	124.00	-68.24	peak			
5		14.7900	11.59	20.25	31.84	69.50	-37.66	peak			
6		15.4260	11.24	20.24	31.48	69.50	-38.02	peak			
7		15.8340	11.54	20.24	31.78	69.50	-37.72	peak			

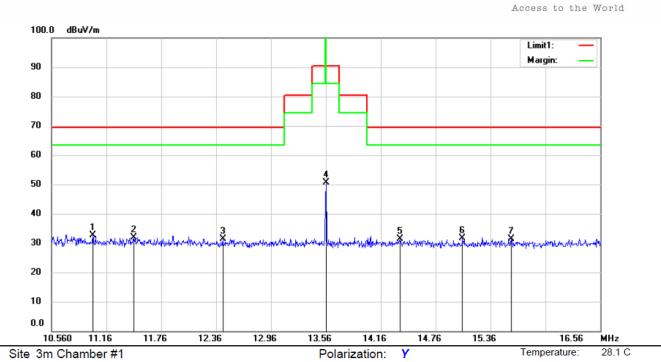
Polarization:

Power:

AC 120V/60Hz



43 %



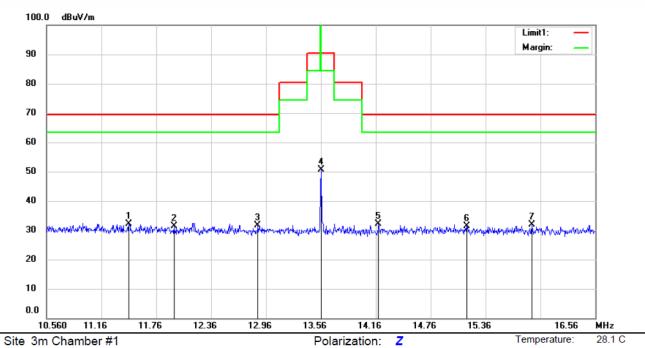
Limit: (RE)FCC PART 15.225(Mask)

Mode:NFC(8.18)
Note: configuration A

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	11.0100	12.03	20.56	32.59	69.50	-36.91	peak			
2		11.4600	11.44	20.51	31.95	69.50	-37.55	peak			
3		12.4320	11.03	20.42	31.45	69.50	-38.05	peak			
4		13.5600	30.31	20.32	50.63	124.00	-73.37	peak			
5		14.3700	11.20	20.27	31.47	69.50	-38.03	peak			
6		15.0540	11.36	20.24	31.60	69.50	-37.90	peak			
7		15.5880	11.11	20.24	31.35	69.50	-38.15	peak			



43 %



Site 3m Chamber #1

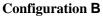
Limit: (RE)FCC PART 15.225(Mask)

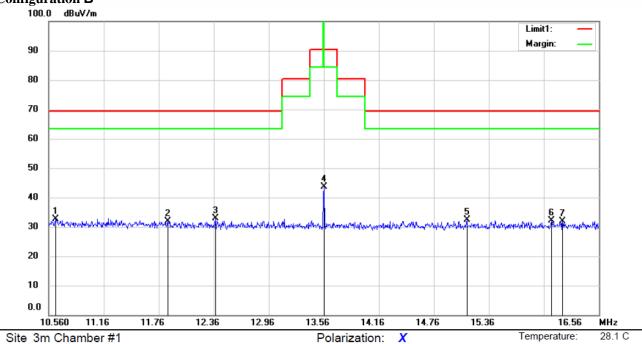
Mode:NFC(8.18) Note: configuration A

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		11.4600	11.55	20.51	32.06	69.50	-37.44	peak			
2		11.9520	10.95	20.47	31.42	69.50	-38.08	peak			
3		12.8700	11.38	20.37	31.75	69.50	-37.75	peak			
4		13.5600	30.21	20.32	50.53	124.00	-73.47	peak			
5	*	14.1900	11.80	20.28	32.08	69.50	-37.42	peak			
6		15.1560	11.20	20.24	31.44	69.50	-38.06	peak			
7		15.8640	11.67	20.24	31.91	69.50	-37.59	peak			



43 %





Site 3m Chamber #1 Limit: (RE)FCC PART 15.225(Mask)

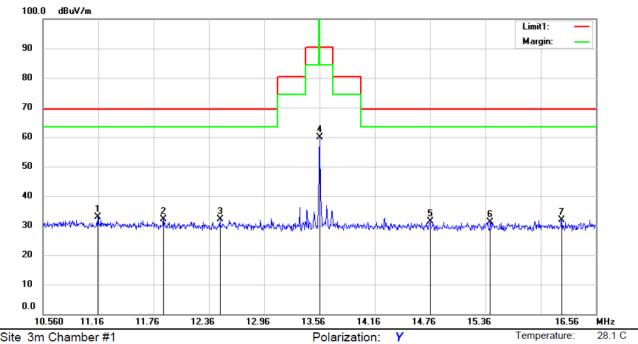
Mode:NFC(| B)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		10.6380	12.04	20.55	32.59	69.50	-36.91	peak			
2		11.8560	11.41	20.47	31.88	69.50	-37.62	peak			
3	*	12.3780	12.43	20.41	32.84	69.50	-36.66	peak			
4		13.5600	23.34	20.32	43.66	124.00	-80.34	peak			
5		15.1200	12.03	20.24	32.27	69.50	-37.23	peak			
6		16.0440	11.89	20.24	32.13	69.50	-37.37	peak			
7		16.1640	11.68	20.23	31.91	69.50	-37.59	peak			



43 %



Site 3m Chamber #1

Limit: (RE)FCC PART 15.225(Mask)

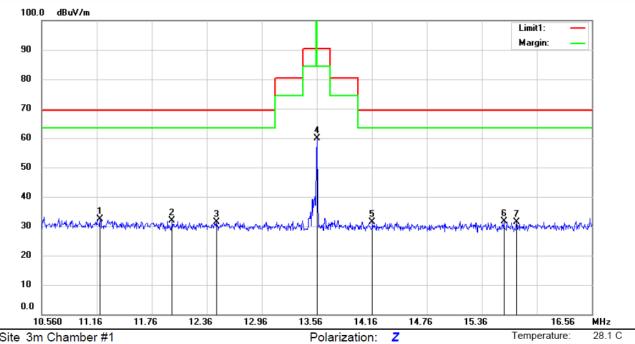
Mode:NFC(B)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	11.1540	12.27	20.55	32.82	69.50	-36.68	peak			
2		11.8680	11.62	20.47	32.09	69.50	-37.41	peak			
3		12.4800	11.68	20.41	32.09	69.50	-37.41	peak			
4		13.5600	39.50	20.32	59.82	124.00	-64.18	peak			
5		14.7600	11.04	20.25	31.29	69.50	-38.21	peak			
6		15.4140	10.90	20.24	31.14	69.50	-38.36	peak			
7		16.1880	11.63	20.23	31.86	69.50	-37.64	peak			



43 %



Site 3m Chamber #1

Limit: (RE)FCC PART 15.225(Mask)

Mode:NFC(B)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	11.1960	11.92	20.54	32.46	69.50	-37.04	peak			
2		11.9820	11.33	20.46	31.79	69.50	-37.71	peak			
3		12.4680	11.09	20.41	31.50	69.50	-38.00	peak			
4		13.5600	39.61	20.32	59.93	124.00	-64.07	peak			
5		14.1660	11.12	20.28	31.40	69.50	-38.10	peak			
6		15.6000	11.40	20.24	31.64	69.50	-37.86	peak			
7		15.7380	11.06	20.23	31.29	69.50	-38.21	peak			

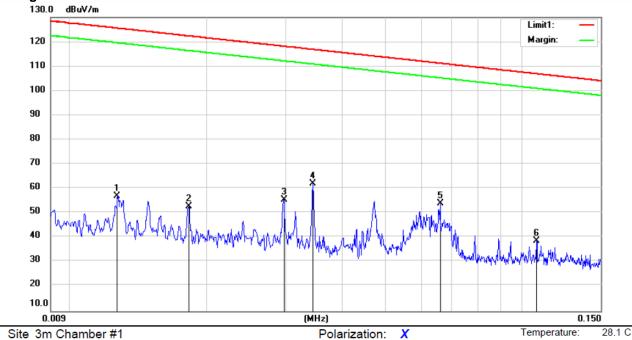


43 %

Spurious Emission below 150kHz (9KHz to 150kHz)

All mode have been tested, and the worst result was report as below:

Configuration A

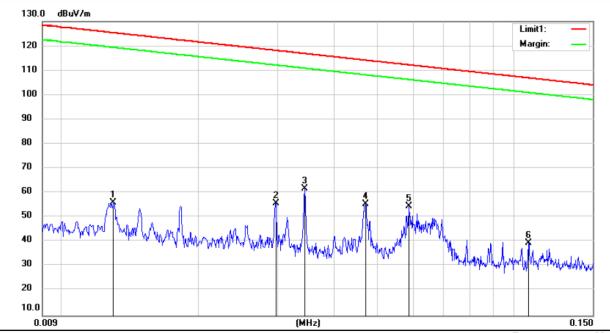


Limit: (RE)FCC PART 15.209(9K-30M)

Mode:NFC(8.18)
Note: configuration A

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0126	36.45	20.59	57.04	125.58	-68.54	peak			
2	0.0182	32.13	20.59	52.72	122.39	-69.67	peak			
3	0.0297	34.76	20.59	55.35	118.14	-62.79	peak			
4 *	0.0343	41.30	20.65	61.95	116.89	-54.94	peak			
5	0.0660	33.24	20.73	53.97	111.20	-57.23	peak			
6	0.1080	18.05	20.61	38.66	106.93	-68.27	peak			



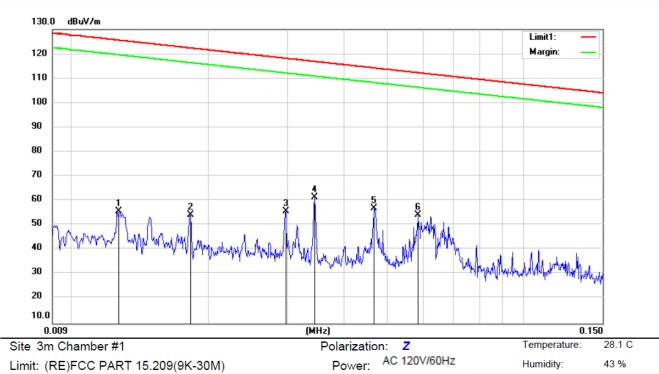


Site 3m Chamber #1 Polarization: Y Temperature: 28.1 C
Limit: (RE)FCC PART 15.209(9K-30M) Power: AC 120V/60Hz Humidity: 43 %

Mode:NFC(8.18)
Note: configuration A

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0130	35.49	20.59	56.08	125.31	-69.23	peak			
2		0.0296	35.22	20.59	55.81	118.16	-62.35	peak			
3	*	0.0343	41.07	20.65	61.72	116.89	-55.17	peak			
4		0.0470	34.62	20.84	55.46	114.15	-58.69	peak			
5		0.0586	33.87	20.80	54.67	112.24	-57.57	peak			
6		0.1080	18.91	20.61	39.52	106.93	-67.41	peak			





Limit: (RE)FCC PART 15.209(9K-30M)

Mode:NFC(8.18) Note: configuration A

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0126	35.16	20.59	55.75	125.58	-69.83	peak			
2	0.0182	33.56	20.59	54.15	122.39	-68.24	peak			
3	0.0297	35.05	20.59	55.64	118.14	-62.50	peak			
4 *	0.0343	40.93	20.65	61.58	116.89	-55.31	peak			
5	0.0466	36.09	20.84	56.93	114.22	-57.29	peak			
6	0.0584	33.39	20.81	54.20	112.27	-58.07	peak			

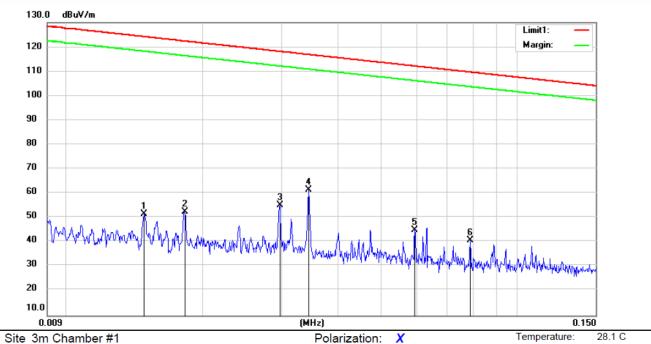
43 %

Humidity:



43 %

Configuration B



Limit: (RE)FCC PART 15.209(9K-30M)

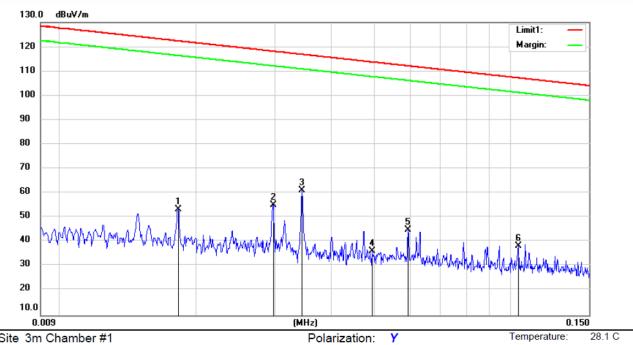
Mode:NFC((B)

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0148	30.96	20.59	51.55	124.18	-72.63	peak			
2	0.0182	31.94	20.59	52.53	122.39	-69.86	peak			
3	0.0297	34.62	20.59	55.21	118.14	-62.93	peak			
4 *	0.0343	40.94	20.65	61.59	116.89	-55.30	peak			
5	0.0593	24.21	20.80	45.01	112.13	-67.12	peak			
6	0.0788	20.10	20.73	40.83	109.66	-68.83	peak			



43 %



Site 3m Chamber #1

Limit: (RE)FCC PART 15.209(9K-30M)

Mode:NFC((B)

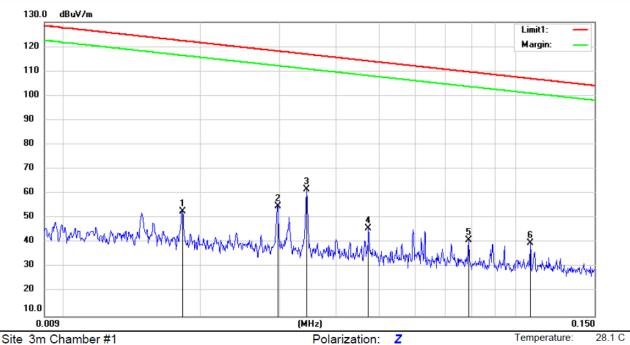
Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0182	32.66	20.59	53.25	122.39	-69.14	peak			
2	0.0297	34.48	20.59	55.07	118.14	-63.07	peak			
3 *	0.0343	40.58	20.65	61.23	116.89	-55.66	peak			
4	0.0492	15.23	20.88	36.11	113.75	-77.64	peak			
5	0.0593	24.18	20.80	44.98	112.13	-67.15	peak			
6	0.1043	17.58	20.65	38.23	107.23	-69.00	peak			



43 %

Humidity:



Site 3m Chamber #1

Limit: (RE)FCC PART 15.209(9K-30M)

Mode:NFC(B)

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.0182	32.28	20.59	52.87	122.39	-69.52	peak			
2		0.0297	34.37	20.59	54.96	118.14	-63.18	peak			
3	*	0.0343	41.03	20.65	61.68	116.89	-55.21	peak			
4		0.0472	24.91	20.85	45.76	114.11	-68.35	peak			
5		0.0788	20.24	20.73	40.97	109.66	-68.69	peak			
6		0.1080	19.17	20.61	39.78	106.93	-67.15	peak			

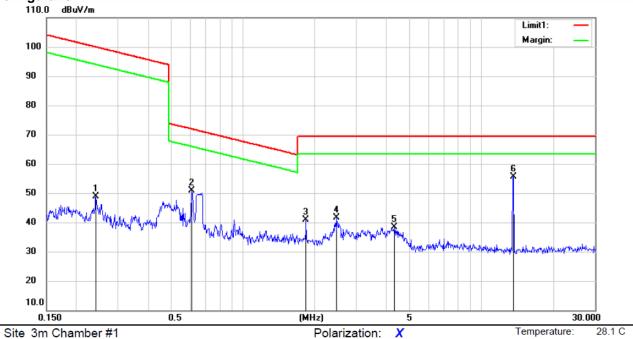


43 %

■ Spurious Emission below 30MHz (150KHz to 30MHz)

All mode have been tested, and the worst result was report as below:

Configuration A



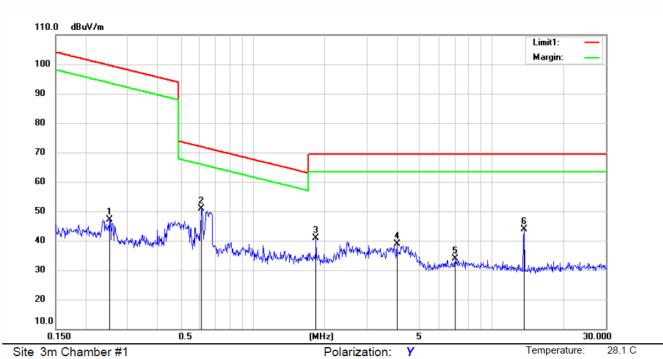
Limit: (RE)FCC PART 15.209(9K-30M)

Mode:NFC(8.18)
Note: configuration A

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.2416	28.31	20.47	48.78	99.94	-51.16	peak			
2	0.6108	29.90	21.00	50.90	71.89	-20.99	peak			
3	1.8386	20.01	20.84	40.85	69.50	-28.65	peak			
4	2.4736	20.78	20.73	41.51	69.50	-27.99	peak			
5	4.3146	17.75	20.58	38.33	69.50	-31.17	peak			
6 *	13.6228	35.41	20.32	55.73	69.50	-13.77	peak			



43 %



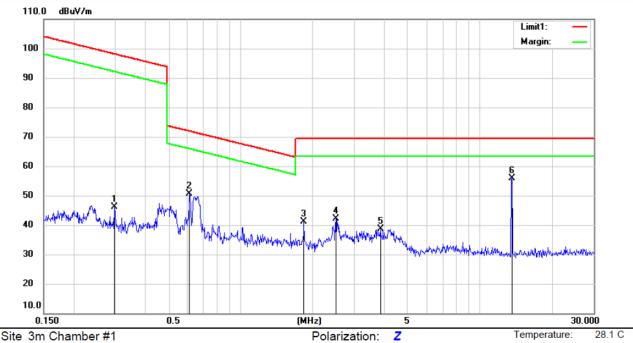
Limit: (RE)FCC PART 15.209(9K-30M)

Mode:NFC(8.18)
Note: configuration A

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.2521	26.72	20.49	47.21	99.57	-52.36	peak			
2 *	0.6108	29.97	21.00	50.97	71.89	-20.92	peak			
3	1.8386	20.14	20.84	40.98	69.50	-28.52	peak			
4	4.0062	18.34	20.59	38.93	69.50	-30.57	peak			
5	7.0250	13.26	20.68	33.94	69.50	-35.56	peak			
6	13.6228	23.50	20.32	43.82	69.50	-25.68	peak			



43 %



Site 3m Chamber #1

Limit: (RE)FCC PART 15.209(9K-30M)

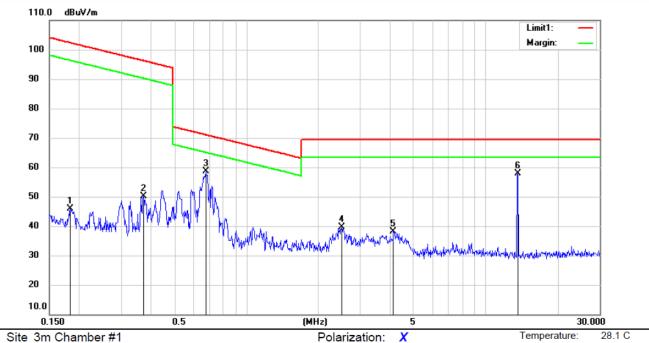
Mode: NFC(8.18) Note: configuration A

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.2971	25.48	20.58	46.06	98.14	-52.08	peak			
2	0.6108	29.74	21.00	50.74	71.89	-21.15	peak			
3	1.8386	20.19	20.84	41.03	69.50	-28.47	peak			
4	2.5000	21.45	20.72	42.17	69.50	-27.33	peak			
5	3.8400	18.07	20.60	38.67	69.50	-30.83	peak			
6 *	13.6228	35.44	20.32	55.76	69.50	-13.74	peak			



43 %

Configuration B



Site 3m Chamber #1

Limit: (RE)FCC PART 15.209(9K-30M)

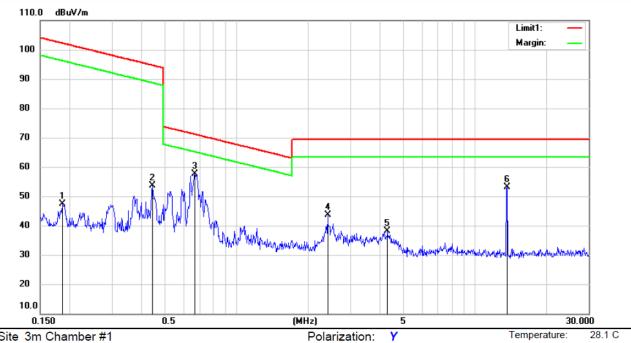
Mode:NFC(

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.1835	25.50	20.36	45.86	102.33	-56.47	peak			
2	0.3712	29.38	20.73	50.11	96.21	-46.10	peak			
3	0.6753	37.55	21.00	58.55	71.02	-12.47	peak			
4	2.5000	18.89	20.72	39.61	69.50	-29.89	peak			
5	4.1137	17.63	20.58	38.21	69.50	-31.29	peak			
6 *	13.6228	37.68	20.32	58.00	69.50	-11.50	peak			



43 %



Site 3m Chamber #1

Limit: (RE)FCC PART 15.209(9K-30M)

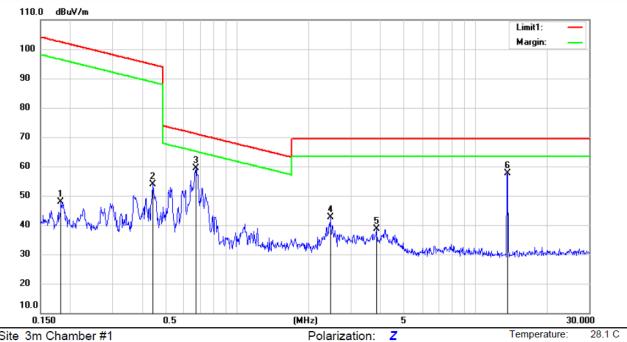
Mode:NFC(

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.1853	26.91	20.36	47.27	102.24	-54.97	peak			
2		0.4421	32.87	20.88	53.75	94.69	-40.94	peak			
3	*	0.6683	36.67	21.00	57.67	71.11	-13.44	peak			
4		2.4090	22.92	20.74	43.66	69.50	-25.84	peak			
5		4.2918	17.59	20.59	38.18	69.50	-31.32	peak			
6		13.6228	32.74	20.32	53.06	69.50	-16.44	peak			



43 %



Site 3m Chamber #1

Limit: (RE)FCC PART 15.209(9K-30M)

Mode:NFC((B)

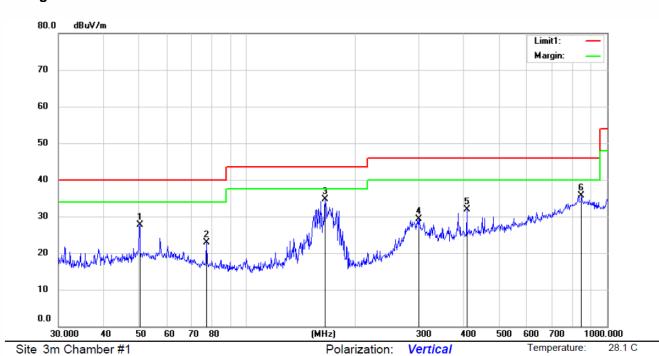
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		0.1825	27.61	20.36	47.97	102.37	-54.40	peak			
2		0.4421	33.01	20.88	53.89	94.69	-40.80	peak			
3	*	0.6720	38.31	21.00	59.31	71.06	-11.75	peak			
4		2.4606	21.78	20.73	42.51	69.50	-26.99	peak			
5		3.8400	18.08	20.60	38.68	69.50	-30.82	peak			
6		13.6228	37.42	20.32	57.74	69.50	-11.76	peak			



43 %

■ Spurious Emission Above 30MHz (30MHz to 1GHz) Configuration A



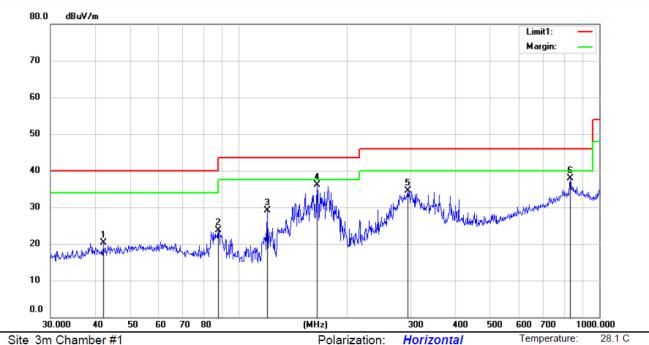
Limit: (RE)FCC PART 15 CLASS B

Mode:NFC(8.18)
Note: configuration A

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		50.4310	35.29	-7.49	27.80	40.00	-12.20	QP			
2		77.4230	32.99	-10.05	22.94	40.00	-17.06	QP			
3	*	164.9798	44.81	-10.08	34.73	43.50	-8.77	QP			
4		299.7097	34.30	-5.06	29.24	46.00	-16.76	QP			
5		408.0507	34.32	-2.34	31.98	46.00	-14.02	QP			
6		850.2896	28.94	6.71	35.65	46.00	-10.35	QP			



43 %



Limit: (RE)FCC PART 15 CLASS B

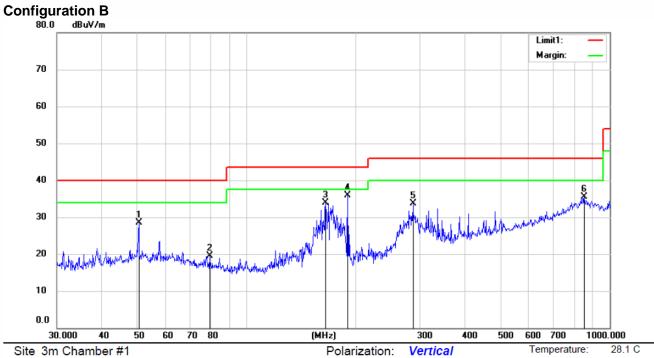
Mode:NFC(8.18)
Note: configuration A

Correct Antenna Table Reading Measure-Limit Over No. Mk. Freq. Level Factor Height ment Degree MHz dBuV dB dBuV/m dBuV/m dΒ Detector degree Comment 42.0803 28.62 -8.38 20.24 40.00 -19.76 QP 1 87.7632 34.78 -11.05 -16.27 2 23.73 40.00 QP 39.23 3 119.9607 -10.08 29.15 43.50 -14.35 QP 4 165.0520 46.10 -10.06 36.04 43.50 -7.46 QP 5 295.0174 39.59 -5.16 34.43 46.00 -11.57 QP 37.92 6 832.9520 31.50 6.42 46.00 -8.08 QP



43 %





Site 3m Chamber #1

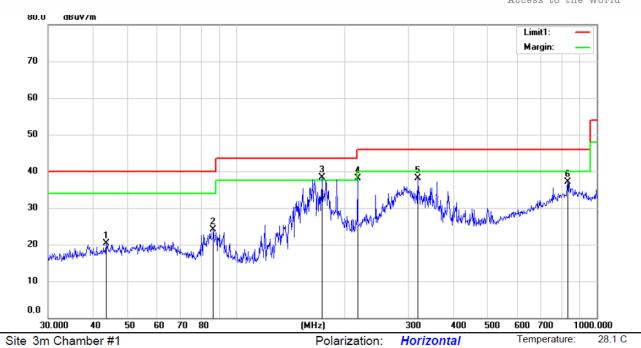
Limit: (RE)FCC PART 15 CLASS B

Mode:NFC((B) Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		50.4090	36.07	-7.49	28.58	40.00	-11.42	QP			
2		78.9998	29.73	-10.28	19.45	40.00	-20.55	QP			
3		165.0520	44.03	-10.06	33.97	43.50	-9.53	QP			
4	*	189.8217	45.62	-9.78	35.84	43.50	-7.66	QP			
5		286.9823	39.33	-5.59	33.74	46.00	-12.26	QP			
6		853.2764	29.04	6.48	35.52	46.00	-10.48	QP			



43 %



Limit: (RE)FCC PART 15 CLASS B

Mode:NFC(B)

Note: B

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		43.6203	28.32	-8.00	20.32	40.00	-19.68	QP			
2		86.4271	35.18	-11.03	24.15	40.00	-15.85	QP			
3	*	172.9017	47.96	-9.70	38.26	43.50	-5.24	QP			
4		216.9730	47.44	-9.25	38.19	46.00	-7.81	QP			
5		319.7968	42.71	-4.66	38.05	46.00	-7.95	QP			
6		830.4002	30.73	6.37	37.10	46.00	-8.90	QP			

Power:

AC 120V/60Hz



7.4 CONDUCTED EMISSION TEST

7.4.1 Applicable Standard

According to FCC Part 15.207(a)

7.4.2 Conformance Limit

Conducted Emission Limit								
Frequency(MHz)	Quasi-peak	Average						
0.15-0.5	66-56	56-46						
0.5-5.0	56	46						
5.0-30.0	60	50						

Note: 1. The lower limit shall apply at the transition frequencies

7.4.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

7.4.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

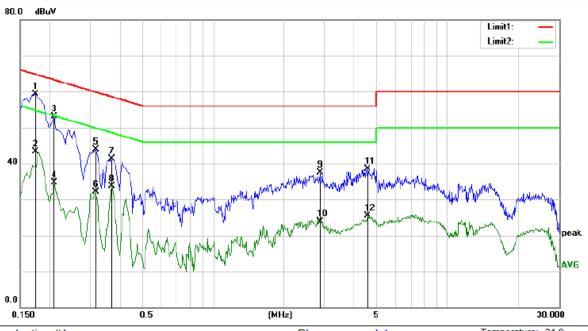
7.4.5 Test Results

Pass

The 120V voltagehave been tested, and the worst result recorded was report as below:

^{2.} The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

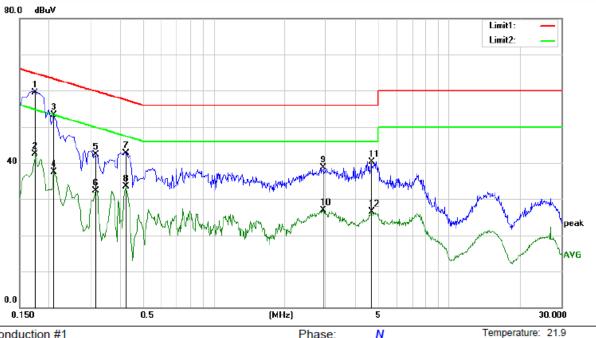




Site Conduction #1 Phase: L1 Temperature: 21.9
Limit: (CE)FCC PART 15 class B_QP Power: DC 5V/1A Humidity: 58 %

MHz dBuV dB dBuV dB uV dA uVG du uV dA uVG du uV da uVG da uVG da uVG da uVG du uVG	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
2 0.1750 33.69 9.54 43.23 54.72 -11.49 AVG 3 0.2100 43.50 9.54 53.04 63.21 -10.17 QP 4 0.2100 25.16 9.54 34.70 53.21 -18.51 AVG 5 0.3150 34.44 9.53 43.97 59.84 -15.87 QP 6 0.3150 22.57 9.53 32.10 49.84 -17.74 AVG 7 0.3700 31.87 9.53 41.40 58.50 -17.10 QP 8 0.3700 24.09 9.53 33.62 48.50 -14.88 AVG 9 2.8450 27.94 9.56 37.50 56.00 -18.50 QP 10 2.8450 14.38 9.56 23.94 46.00 -22.06 AVG 11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
3 0.2100 43.50 9.54 53.04 63.21 -10.17 QP 4 0.2100 25.16 9.54 34.70 53.21 -18.51 AVG 5 0.3150 34.44 9.53 43.97 59.84 -15.87 QP 6 0.3150 22.57 9.53 32.10 49.84 -17.74 AVG 7 0.3700 31.87 9.53 41.40 58.50 -17.10 QP 8 0.3700 24.09 9.53 33.62 48.50 -14.88 AVG 9 2.8450 27.94 9.56 37.50 56.00 -18.50 QP 10 2.8450 14.38 9.56 23.94 46.00 -22.06 AVG 11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP	1	*	0.1750	49.68	9.54	59.22	64.72	-5.50	QP	
4 0.2100 25.16 9.54 34.70 53.21 -18.51 AVG 5 0.3150 34.44 9.53 43.97 59.84 -15.87 QP 6 0.3150 22.57 9.53 32.10 49.84 -17.74 AVG 7 0.3700 31.87 9.53 41.40 58.50 -17.10 QP 8 0.3700 24.09 9.53 33.62 48.50 -14.88 AVG 9 2.8450 27.94 9.56 37.50 56.00 -18.50 QP 10 2.8450 14.38 9.56 23.94 46.00 -22.06 AVG 11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP	2		0.1750	33.69	9.54	43.23	54.72	-11.49	AVG	
5 0.3150 34.44 9.53 43.97 59.84 -15.87 QP 6 0.3150 22.57 9.53 32.10 49.84 -17.74 AVG 7 0.3700 31.87 9.53 41.40 58.50 -17.10 QP 8 0.3700 24.09 9.53 33.62 48.50 -14.88 AVG 9 2.8450 27.94 9.56 37.50 56.00 -18.50 QP 10 2.8450 14.38 9.56 23.94 46.00 -22.06 AVG 11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP	3		0.2100	43.50	9.54	53.04	63.21	-10.17	QP	
6 0.3150 22.57 9.53 32.10 49.84 -17.74 AVG 7 0.3700 31.87 9.53 41.40 58.50 -17.10 QP 8 0.3700 24.09 9.53 33.62 48.50 -14.88 AVG 9 2.8450 27.94 9.56 37.50 56.00 -18.50 QP 10 2.8450 14.38 9.56 23.94 46.00 -22.06 AVG 11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP	4		0.2100	25.16	9.54	34.70	53.21	-18.51	AVG	
7 0.3700 31.87 9.53 41.40 58.50 -17.10 QP 8 0.3700 24.09 9.53 33.62 48.50 -14.88 AVG 9 2.8450 27.94 9.56 37.50 56.00 -18.50 QP 10 2.8450 14.38 9.56 23.94 46.00 -22.06 AVG 11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP	5		0.3150	34.44	9.53	43.97	59.84	-15.87	QP	
8 0.3700 24.09 9.53 33.62 48.50 -14.88 AVG 9 2.8450 27.94 9.56 37.50 56.00 -18.50 QP 10 2.8450 14.38 9.56 23.94 46.00 -22.06 AVG 11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP	6		0.3150	22.57	9.53	32.10	49.84	-17.74	AVG	
9 2.8450 27.94 9.56 37.50 56.00 -18.50 QP 10 2.8450 14.38 9.56 23.94 46.00 -22.06 AVG 11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP	7		0.3700	31.87	9.53	41.40	58.50	-17.10	QP	
10 2.8450 14.38 9.56 23.94 46.00 -22.06 AVG 11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP	8		0.3700	24.09	9.53	33.62	48.50	-14.88	AVG	
11 4.5850 28.96 9.57 38.53 56.00 -17.47 QP	9		2.8450	27.94	9.56	37.50	56.00	-18.50	QP	
	10		2.8450	14.38	9.56	23.94	46.00	-22.06	AVG	
	11		4.5850	28.96	9.57	38.53	56.00	-17.47	QP	
12 4.5850 15.85 9.57 25.42 46.00 -20.58 AVG	12		4.5850	15.85	9.57	25.42	46.00	-20.58	AVG	





Site Conduction #1 Phase: N Temperature: 21.9

Limit: (CE)FCC PART 15 class B_QP Power: DC 5V/1A Humidity: 58 %

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1 *	0.1750	49.96	9.54	59.50	64.72	-5.22	QP	
2	0.1750	32.97	9.54	42.51	54.72	-12.21	AVG	
3	0.2100	43.68	9.54	53.22	63.21	-9.99	QP	
4	0.2100	27.94	9.54	37.48	53.21	-15.73	AVG	
5	0.3150	32.71	9.53	42.24	59.84	-17.60	QP	
6	0.3150	22.82	9.53	32.35	49.84	-17.49	AVG	
7	0.4250	33.26	9.53	42.79	57.35	-14.56	QP	
8	0.4250	24.05	9.53	33.58	47.35	-13.77	AVG	
9	2.9050	29.09	9.56	38.65	56.00	-17.35	QP	
10	2.9050	17.40	9.56	26.96	46.00	-19.04	AVG	
11	4.7150	30.83	9.57	40.40	56.00	-15.60	QP	
12	4.7150	16.91	9.57	26.48	46.00	-19.52	AVG	



8 ANTENNA APPLICATION

8.1.1 Antenna Requirement

Standard Requirement

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 use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

FCC CRF Part 15.203

For intentional device, according to FCC 47 CFR Section 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. if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.2 RESULT

The EUT'S antenna is coil antenna, The antenna's gain is 0dBi and meets the requirement. and the antenna can't be replaced by the user, which in accordance to section 15.203.