



Origins Technology Limited Kaiterra Sensedge Go Air Quality Monitor Test Model: SE-300

Prepared for : Origins Technology Limited

Address : 603 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road,

· Hong Kong

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

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Date of receipt of test sample : September 09, 2024

Number of tested samples : 2

Sample No. : A240909136-1, A240909136-2

Serial number : Prototype

Date of Test : September 09, 2024 ~ November 19, 2024

Date of Report : November 20, 2024



FCC TEST REPORT

FCC CFR 47 PART 15 C (15.247)

Report Reference No.: LCSA09064105EA

Date of Issue.....: November 20, 2024

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

Report No.: LCSA09064105EA

· Full application of Harmonised standards ■

Applicant's Name.....: Origins Technology Limited

603 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan Road,

Hong Kong

Test Specification

Standard...... : FCC CFR 47 PART 15 C (15.247)

Test Report Form No.....: TRF-4-E-208 A/0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.....: Kaiterra Sensedge Go Air Quality Monitor

Trade Mark.....: Kaiterra
Test Model....: SE-300

Ratings.....: Input: DC 5V, 500mA

Result: Positive

Compiled by:

Supervised by:

Approved by:

Martin Lee/ Administrator

Vartin bel

Cary Luo/ Technique principal

Gavin Liang/ Manager



FCC -- TEST REPORT

Test Report No. : LCSA09064105EA November 20, 2024

Date of issue

Test Model.....: SE-300

EUT.....: Kaiterra Sensedge Go Air Quality Monitor

Applicant.....: : Origins Technology Limited

Address.....:: 603 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan

Road, Hong Kong

Manufacturer.....: : Origins Technology Limited

Address.....:: 603 6/F, Laws Commercial Plaza, 788 Cheung Sha Wan

Road, Hong Kong

Test Result Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



















Revision History

	Revision		
Report Version	Issue Date	Revision Content	Revised By
000	November 20, 2024	Initial Issue	

















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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT : Kaiterra Sensedge Go Air Quality Monitor

Test Model : SE-300

Power Supply : Input: DC 5V, 500mA

Hardware Version : V6.1 Software Version : V0.2.7

Frequency Range : 902.3MHz~914.9MHz

Channel Number : 64 channels
Channel Spacing : 200kHz
Modulation Type : FSK

Antenna Description : ANT1: External Antenna, 4.4dBi(Max),

ANT2: Internal Antenna, -0.04dBi(Max)

Frequency Range : 904.6MHz~914.2MHz

Channel Number : 8 channels
Channel Spacing : 1.6MHz
Modulation Type : FSK

Antenna Description : ANT1: External Antenna, 4.4dBi(Max),

ANT2: Internal Antenna, -0.04dBi(Max)





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1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO., LTD	Power Adapter	TPA-46050200U U		FCC

Note: Auxiliary equipment is provided by the laboratory.

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Type-C Port	1	N/A
Antenna Port	1	N/A

1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10:2013 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.









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1.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
ting Lab	9KHz~30MHz	±3.10dB	(1)
Wai To	30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	: 200MHz~1000MHz	±3.10dB	(1)
-	1GHz~26.5GHz	±3.80dB	(1)
	26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	: 150kHz~30MHz	±1.63dB	(1)
Power disturbance	: 30MHz~300MHz	±1.60dB	(1)
Output power	: 1GHz-40GHz	±0.57dB	(1)
Occupied Channel Bandwidth	: 1GHz-40GHz	±5%	(1)
Conducted RF Spurious Emission	: 9kHz-40GHz	±1.80dB	(1)
Emissions in Restricted Bands	: 1GHz-40GHz	±2.47dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

























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1.7 Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

All test modes were tested, only the result of the worst case was recorded in the report.

***Note: Using a temporary antenna connector for the EUT when conducted measurements are performed.

Operation	Frequency each o	f channel					
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	902.3	17	905.5	33	908.7	49	911.9
2	902.5	18	905.7	34	908.9	50	912.1
3	902.7	19	905.9	35	909.1	51	912.3
4	902.9	20	906.1	36	909.3	52	912.5
5	903.1	21	906.3	37	909.5	53	912.7
6	903.3	22	906.5	38	909.7	54	912.9
7	903.5	23	906.7	39	909.9	55	913.1
8	903.7	24	906.9	40	910.1	56	913.3
9	903.9	25	907.1	41	910.3	57	913.5
10	904.1	26	907.3	42	910.5	58	913.7
11/6	904.3	27	907.5	43	910.7	59	913.9
12	904.5	28	907.7	44	910.9	60	914.1
13	904.7	29	907.9	45	911.1	61	914.3
14	904.9	30	908.1	46	911.3	62	914.5
15	905.1	31	908.3	47	911.5	63	914.7
16	905.3	32	908.5	48	911.7	64	914.9

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle

frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
Channel 1	902.3MHz
Channel 32	908.5MHz
Channel 64	914.9MHz



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR PART 15C 15.207, 15.209 and 15.247.

2.1 EUT Configuration

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

2.2 EUT Exercise

The EUT was operated in the normal operating mode for Hopping Numbers and Dwell Time test and a continuous transmits mode for other tests.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209, 15.247 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.1.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.4 of ANSI C63.10-2013

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(A240909136-1)	Engineer sample – continuous transmit
Sample 2(A240909136-2)	Normal sample – Intermittent transmit







3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a continuous transmits condition.

3.2 EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by application. Power setting Default.

3.3 Special Accessories

Manufacturer	Description	Model	Serial Number	Certificate
	1		1	

3.4 Block Diagram/Schematics

Please refer to the related document.

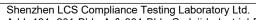
3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.





4. SUMMARY OF TEST RESULTS

de	OF TEST RESULTS		Mr. In	Title man			
Applied Standard: FCC Part 15 Subpart C							
FCC Rules	Description of Test	Test Sample	Result	Remark			
§15.247(a)(1)	20dB Bandwidth	Sample 1	Compliant	Appendix A.1			
§15.247(b)(2)	Maximum Peak Conducted Output Power	Sample 1	Compliant	Appendix A.2			
§15.247(a)(1)	Frequency Separation	Sample 1	Compliant	Appendix A.3			
§15.247(a)(1)	Time Of Occupancy (Dwell Time)	Sample 1	Compliant	Appendix A.4			
§15.247(a)(1)	Number Of Hopping Frequency	Sample 1	Compliant	Appendix A.5			
§15.209(a)	Radiated Spurious Emissions	Sample 1 Sample 2	Compliant	Note 1			
§15.247(d)	Band Edges Measurements and Conducted Spurious Emissions	Sample 1	Compliant	Appendix A.6 Appendix A.7			
§15.205	Emissions at Restricted Band	Sample 2	Compliant	Note 1			
§15.207(a)	AC Mains Conducted Emissions	N/A	N/A	N/A			
§15.203	Antenna Requirements	Sample 2	Compliant	Note 1			
§15.247(i)§1.1310 §15.247(i)§2.1091	RF Exposure	N/A	Compliant	Note 2			

Remark:

- 1. Note 1 Test results inside test report;
- 2. Note 2 Test results in other test report (RF Exposure Evaluation);
- 3. N/A Not Applicable!!! 在 LCS Testing Lab

















5. SUMMARY OF TEST EQUIPMENT

Power Meter Power Sensor Power Sensor Test Software F Control Unit A Signal Analyzer C Power Supply	R&S R&S R&S Tonscend Tonscend Agilent	NRVS NRV-Z81 NRV-Z32 JS1120-2 JS0806-2	100444 100458 10057	2024-06-06 2024-06-06 2024-06-06 N/A	2025-06-05 2025-06-05 2025-06-05
Power Sensor Test Software F Control Unit A Signal Analyzer C Power Supply	R&S Tonscend Tonscend	NRV-Z32 JS1120-2	10057	2024-06-06	
Test Software F Control Unit A Signal Analyzer C Power Supply	Tonscend Tonscend	JS1120-2	1		2025-06-05
F Control Unit A Signal Analyzer C Power Supply	Tonscend		/	NI/A	
A Signal Analyzer C Power Supply		JS0806-2		IN/A	N/A
C Power Supply	Agilent		N/A	2024-06-06	2025-06-05
- 12		N9020A	MY50510140	2023-10-09 2024-10-08	2024-10-08 2025-10-07
II Test Software	Agilent	E3642A	N/A	2023-10-09 2024-10-08	2024-10-08 2025-10-07
CONTRACTOR OF THE CONTRACTOR O	AUDIX	E3	1	N/A	N/A
ni Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2024-06-06	2025-06-05
tioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
ve Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2024-07-13	2027-07-12
y-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
band Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024-07-13	2027-07-12
dband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2024-07-30	2025-07-29
II Test Receiver	R&S	ESR 7	101181	2024-06-06	2025-06-05
CTRUM ANALYZER	R&S	FSP40	100503	2024-06-06	2025-06-05
requency amplifier	SchwarzZBECK	BBV9745	00253	2023-10-09 2024-10-08	2024-10-08 2025-10-07
requency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2023-10-09 2024-10-08	2024-10-08 2025-10-07
dB Attenuator	1	100W/6dB	1172040	2024-06-06	2025-06-05
dB Attenuator	1	2N-3dB	/	2023-10-09 2024-10-08	2024-10-08 2025-10-07
II Test Receiver	R&S	ESPI	101940	2024-06-06	2025-06-05
Artificial Mains	R&S	ENV216	101288	2024-06-06	2025-06-05
OdB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2024-06-06	2025-06-05
II Test Software	Farad	EZ	1	N/A	N/A
Antenna Mast	Max-Full	MFA-515BSN	1308572	N/A	N/A
Pulse Limiter	R&S	ESH3-Z2	102750-NB	2024-06-06	2025-06-0
II T Anto Pul	est Software enna Mast	est Software Farad enna Mast Max-Full se Limiter R&S	Fest Software Farad EZ enna Mast Max-Full MFA-515BSN se Limiter R&S ESH3-Z2	fest Software Farad EZ / enna Mast Max-Full MFA-515BSN 1308572 se Limiter R&S ESH3-Z2 102750-NB	Fest Software Farad EZ / N/A enna Mast Max-Full MFA-515BSN 1308572 N/A se Limiter R&S ESH3-Z2 102750-NB 2024-06-06











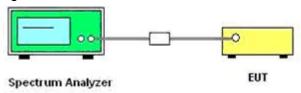
6. MEASUREMENT RESULTS

6.1. Frequency Separation and 20 dB Bandwidth

6.1.1 Limit

According to §15.247(a), Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

6.1.2 Block Diagram of Test Setu



6.1.3 Test Procedure

Frequency separation test procedure:

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = middle of hopping channel.
- 4). Set the Spectrum Analyzer as RBW = 100 kHz, VBW = 300 kHz, Span = wide enough to capture the peaks of two adjacent channels, Sweep = auto.
- 5). Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

20dB bandwidth test procedure:

- 1). Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel.
- 2). RBW ≥1% of the 20 dB bandwidth, VBW ≥RBW.
- 3). Detector function = peak.
- 4). Trace = max hold.

6.1.4 Test Results

6.1.4.1 20dB Bandwidth

PASS

Please refer to Appendix A.1

Remark:

- 1. Test results including cable loss;
- 2. Measured 20dB Bandwidth at difference Packet Type for each mode and recorded worst case for each mode.

6.1.4.2 Frequency Separation

PASS

Please refer to Appendix A.3

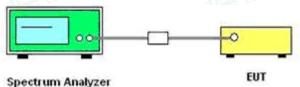


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6.2. Peak Power

6.2.1 Block Diagram of Test Setup



6.2.2 Limit

According to §15.247(b)(2), For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

6.2.3 Test Procedure

The transmitter output is connected to the spectrum.

6.2.4. Test Procedures

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW ≥ RBW.
- 4) Sweep: Auto.
- 5) Detector function: Peak.
- 6) Trace: Max hold.

6.2.5 Test Results

PASS

Please refer to Appendix A.2

Remark:

- 1. Test results including cable loss;
- Measured output power at difference Packet Type for each mode and recorded worst case for each mode.



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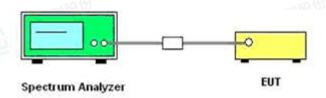


6.3. Time of Occupancy (Dwell Time)

6.3.1 Limit

According to §15.247(a)(1), For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

6.3.2 Block Diagram of Test Setup



6.3.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = operating frequency.
- 4). Set the Spectrum Analyzer as RBW=1MHz, VBW=3MHz, Span = 0Hz, Sweep = auto.
- 5). Repeat above procedures until all frequency measured was complete.

6.3.4 Test Results

PASS

Please refer to Appendix A.4

Remark:

- Test results including cable loss;
- 2. Measured at difference Packet Type for each mode and recorded worst case for each mode.



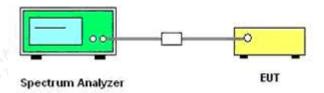


6.4. Number of Hopping Frequency

6.4.1 Limit

According to §15.247(a)(1), For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies.

6.4.2 Block Diagram of Test Setup



6.4.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set Spectrum Analyzer Start=902MHz, Stop = 915.2MHz, Sweep = auto.
- 4). Set the Spectrum Analyzer as RBW=100KHz, VBW=300KHz.
- 5). Max hold, view and count how many channel in the band.

6.4.4 Test Results

PASS

Please refer to Appendix A.5

Remark:

- 1. Test results including cable loss;
- 2. Measured number of hopping channels at difference Packet Type for each mode and recorded worst case for each mode.



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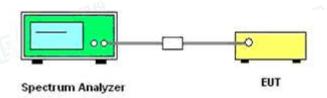
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6.5. Band Edges Measurements and Conducted Spurious Emissions Test

6.5.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

6.5.2 Block Diagram of Test Setup



6.5.3 Test Procedure

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz.

Measurements are made over the 30 MHz to 25GHz range with the transmitter set to the lowest, middle, and highest channels

6.5.4 Test Results of Conducted Spurious Emissions

No non-compliance noted. Only record the worst test result in this report. The test data refer to the following page.

PASS

Please refer to Appendix A.6 for Band Edges Measurements.

Please refer to Appendix A.7 for Conducted Spurious Emission.

Remark:

- 1. Test results including cable loss;
- 2. Measured at difference Packet Type for each mode and recorded worst case for each mode.



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6.6. Restricted Band Emission Limit

6.6.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz		MHz	GHz
16.42-16.423	399.9-410	4.5-5.15	
16.69475-16.69525	608-614	5.35-5.46	
16.80425-16.80475	960-1240	7.25-7.75	
25.5-25.67	1300-1427	8.025-8.5	
37.5-38.25	1435-1626.5	9.0-9.2	
73-74.6	1645.5-1646.5	9.3-9.5	
74.8-75.2	1660-1710	10.6-12.7	
108-121.94	1718.8-1722.2	13.25-13.4	
123-138	2200-2300	14.47-14.5	
149.9-150.05	2310-2390	15.35-16.2	
156.52475-156.52525	2483.5-2500	17.7-21.4	
156.7-156.9	2690-2900	22.01-23.12	
162.0125-167.17	3260-3267	23.6-24.0	
167.72-173.2	3332-3339	31.2-31.8	
240-285	3345.8-3358	36.43-36.5	
322-335.4	3600-4400	(\2\)	
		_n.Kh	
	16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 108-121.94 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	16.42-16.423 399.9-410 16.69475-16.69525 608-614 16.80425-16.80475 960-1240 25.5-25.67 1300-1427 37.5-38.25 1435-1626.5 73-74.6 1645.5-1646.5 74.8-75.2 1660-1710 108-121.94 1718.8-1722.2 123-138 2200-2300 149.9-150.05 2310-2390 156.52475-156.52525 2483.5-2500 156.7-156.9 2690-2900 162.0125-167.17 3260-3267 167.72-173.2 3332-3339 240-285 3345.8-3358	16.42-16.423 399.9-410 4.5-5.15 16.69475-16.69525 608-614 5.35-5.46 16.80425-16.80475 960-1240 7.25-7.75 25.5-25.67 1300-1427 8.025-8.5 37.5-38.25 1435-1626.5 9.0-9.2 73-74.6 1645.5-1646.5 9.3-9.5 74.8-75.2 1660-1710 10.6-12.7 108-121.94 1718.8-1722.2 13.25-13.4 123-138 2200-2300 14.47-14.5 149.9-150.05 2310-2390 15.35-16.2 156.52475-156.52525 2483.5-2500 17.7-21.4 156.7-156.9 2690-2900 22.01-23.12 162.0125-167.17 3260-3267 23.6-24.0 167.72-173.2 3332-3339 31.2-31.8 240-285 3345.8-3358 36.43-36.5

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

According to §15.247 (d): 20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30 (1)	30
30~88	100	3 ill lang Lab
88~216	150	MSA 3 CS Test
216~960	200	3
Above 960	500	3

6.6.2. Measuring Instruments and Setting

Please refer to of equipment list in this report. The following table is the setting of spectrum analyzer and receiver.



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

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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

6.6.3. Test Procedures

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.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna height is 1.0 meter.
- --- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

- --- Identified emissions during the premeasurement 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.
- --- 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 premeasurement 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.

Premeasurement:

- --- The turntable rotates from 0° to 315° using 45° steps.
- --- The antenna is polarized vertical and horizontal.
- --- The antenna height changes from 1 to 4 meter.
- --- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

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.
- --- 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.



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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.

Premeasurement:

- --- 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 4 meter.
- --- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

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.
- --- 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 premeasurement 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.

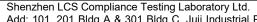
Premeasurement:

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

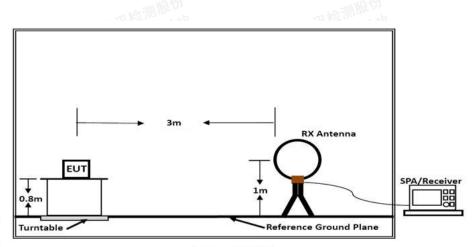
Final measurement:

- --- 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.

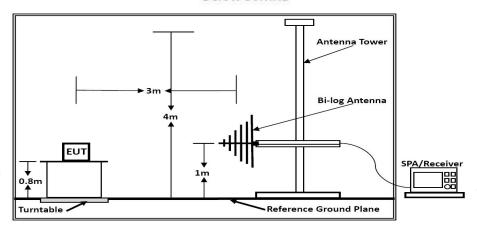




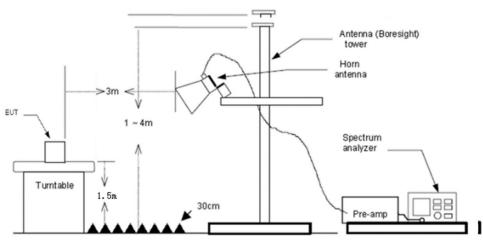
6.6.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.











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6.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.6.6. Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) - AG (dB)

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	· 小桥

6.6.7. Results of Radiated Emissions (9 KHz~30MHz)

Temperature 23.8℃		Humidity	52.1%	
Test Engineer	Paddi Chen			

Freq.	Level	Over Limit	Over Limit	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

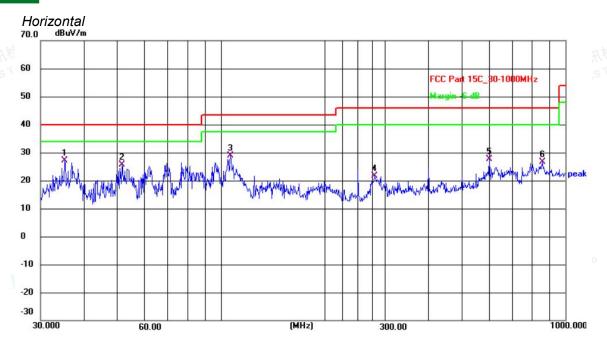
6.6.8. Results of Radiated Emissions (30 MHz~1000 MHz)

Temperature	23.8℃	Humidity	52.1%	
Test Engineer	Paddi Chen			

PASS.

The test data please refer to following page.





No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	35.2511	44.85	-17.76	27.09	40.00	-12.91	QP
2	51.6613	41.72	-16.12	25.60	40.00	-14.40	QP
3	106.7587	46.40	-17.40	29.00	43.50	-14.50	QP
4	279.0436	37.94	-16.25	21.69	46.00	-24.31	QP
5	601.4265	37.64	-9.96	27.68	46.00	-18.32	QP
6	857.0244	34.74	-8.21	26.53	46.00	-19.47	QP







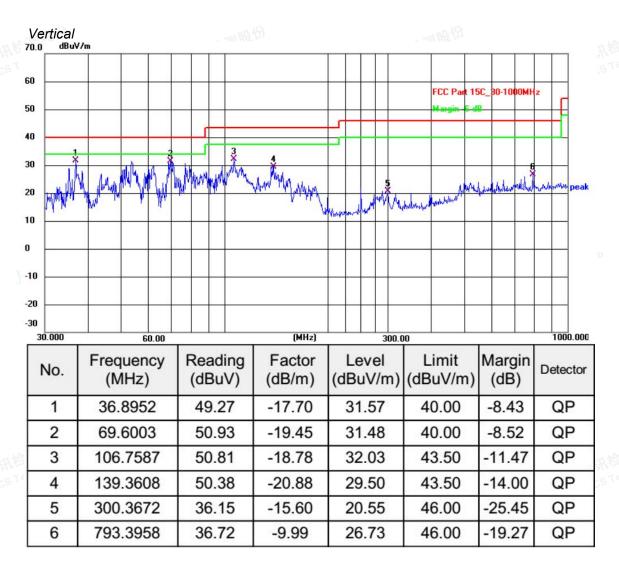












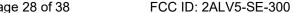
Note:

- 1). Pre-scan all modes and recorded the worst case results in this report .
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Level = Reading + Factor, Margin = Level–Limit, Factor = Antenna Factor + Cable Loss Preamp Factor.



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6.6.9. Results of Radiated Emissions (1 GHz~26 GHz)

Note: All the modes have been tested and recorded worst mode in the report.

Ant 1 Channel 1 / 902.3MHz

	Freq. MHz	Reading dBuv	Factor dB/m	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
	1804.6	65.16	-14.15	51.01	74.00	-22.99	Peak	Horizontal
	2706.9	60.22	-10.64	49.58	74.00	-24.42	Peak	Horizontal
ĺ	1804.6	65.13	-14.15	50.98	74.00	-23.02	Peak	Vertical
	2706.9	60.74	-10.64	50.10	74.00	-23.90	Peak	Vertical

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Channel 32 / 908.5MHz

Freq. MHz	Reading dBuv	Factor dB/m	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
1817.0	65.51	-14.07	51.44	74.00	-22.56	Peak	Horizontal
2725.5	60.81	-10.53	50.28	74.00	-23.72	Peak	Horizontal
1817.0	65.72	-14.07	51.65	74.00	-22.35	Peak	Vertical
2725.5	60.14	-10.53	49.61	74.00	-24.39	Peak	Vertical

Channel 64 / 914.9MHz

Freq. MHz	Reading dBuv	Factor dB/m	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
1829.8	64.04	-13.99	50.05	74.00	-23.95	Peak	Horizontal
2744.7	60.51	-10.46	50.05	74.00	-23.95	Peak	Horizontal
1829.8	65.60	-13.99	51.61	74.00	-22.39	Peak	Vertical
2744.7	60.46	-10.46	50.00	74.00	-24.00	Peak	Vertical

Ant 2 Channel 1 / 902.3MHz

	, =		o = . o =					
	Freq. MHz	Reading dBuv	Factor dB/m	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
	1804.6	65.31	-14.15	51.16	74.00	-22.84	Peak	Horizontal
	2706.9	60.38	-10.64	49.74	74.00	-24.26	Peak	Horizontal
6	1804.6	65.33	-14.15	51.18	74.00	-22.82	Peak	Vertical
100	2706.9	60.69	-10.64	50.05	74.00	-23.95	Peak	Vertical

Channel 32 / 908 5MHz

Gharmer 32 / 300:3Wi 12								
Freq. MHz	Reading dBuv	Factor dB/m	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.	
IVITIZ	ивич	ub/III	II ubuv/III ubuv/III ub					
1817.0	64.90	-14.07	50.83	74.00	-23.17	Peak	Horizontal	
2725.5	60.05	-10.53	49.52	74.00	-24.48	Peak	Horizontal	
1817.0	64.17	-14.07	50.10	74.00	-23.90	Peak	Vertical	
2725.5	60.54	-10.53	50.01	74.00	-23.99	Peak	Vertical	

Channel 64 / 914.9MHz

Oriar	Chamber 617 61 1:5Wit 12							
Freq. MHz	Reading dBuv	Factor dB/m	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.	
1829.8	64.93	-13.99	50.94	74.00	-23.06	Peak	Horizontal	
2744.7	60.77	-10.46	50.31	74.00	-23.69	Peak	Horizontal	
1829.8	64.56	-13.99	50.57	74.00	-23.43	Peak	Vertical	
2744.7	60.58	-10.46	50.12	74.00	-23.88	Peak	Vertical	

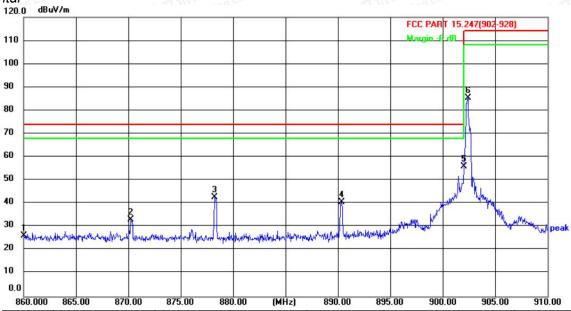
Notes:

- 1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), at least have 20dB margin found between lowest internal used/generated frequency to 30MHz.
- 2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.
- 3). Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4). Measured Level = Reading Level + Factor, Margin = Measured Level Limit, Factor = Antenna Factor + Cable Loss Preamp Factor



Restricted bands:

902.3MHz Horizontal



	VOTOR TO							(47.0000000000)
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	860.0000	34.44	-8.22	26.22	74.00	-47.78	peak
Mar.	2	870.2000	41.34	-8.27	33.07	74.00	-40.93	peak
MST LCST	3	878.2500	50.96	-8.21	42.75	74.00	-31.25	peak
	4	890.3500	48.72	-7.93	40.79	74.00	-33.21	peak
	5	902.0000	63.51	-7.67	55.84	74.00	-18.16	peak
	6	902.4000	93.09	-7.67	85.42	114.00	-28.58	peak

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LEST 立语检测股份





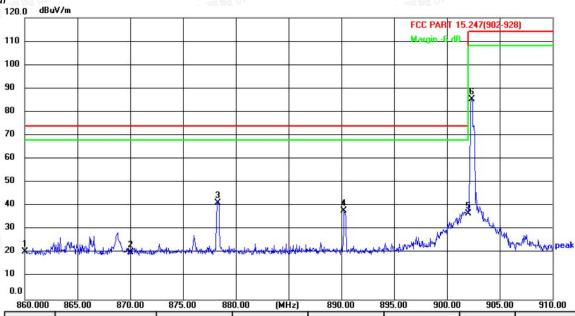












	000.000	000.00		(*********************************			000.00	0.0.00
	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	860.0000	29.48	-8.86	20.62	74.00	-53.38	peak
	2	870.0000	28.94	-8.75	20.19	74.00	-53.81	peak
* THIS TO THE	3	878.3000	49.98	-8.64	41.34	74.00	-32.66	peak
VIST LOST	4	890.2500	46.49	-8.46	38.03	74.00	-35.97	peak
(Assert	5	902.0000	45.08	-8.27	36.81	74.00	-37.19	peak
	6	902.3500	93.70	-8.26	85.44	114.00	-28.56	peak

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LEST THE MER Lab









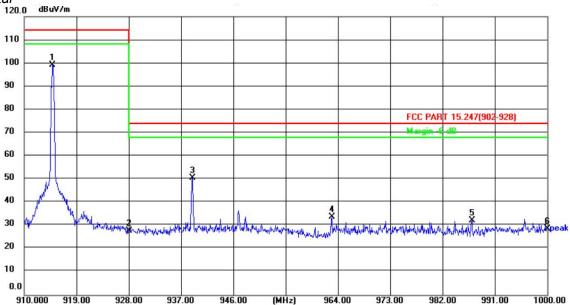






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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	914.8600	106.72	-7.54	99.18	114.00	-14.82	peak
2	928.0000	35.18	-7.35	27.83	74.00	-46.17	peak
3	938.9800	57.57	-7.05	50.52	74.00	-23.48	peak
4	962.9200	40.37	-6.75	33.62	74.00	-40.38	peak
5	987.0400	38.98	-6.72	32.26	74.00	-41.74	peak
6	1000.0000	35.49	-6.72	28.77	74.00	-45.23	peak









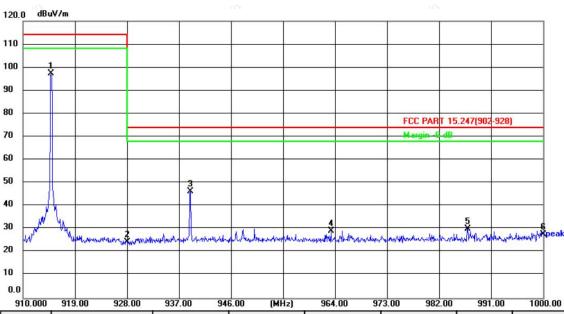








Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	914.8600	105.37	-8.08	97.29	114.00	-16.71	peak
2	928.0000	32.34	-7.96	24.38	74.00	-49.62	peak
3	938.9800	54.44	-8.06	46.38	74.00	-27.62	peak
4	963.2800	37.22	-7.96	29.26	74.00	-44.74	peak
5	986.9500	37.71	-7.51	30.20	74.00	-43.80	peak
6	1000.0000	35.01	-7.22	27.79	74.00	-46.21	peak

Notes:

- 1) Level (dBuv/m) =Reading+Factor;
- 2) Margin(dB)=Level-Limit;
- 3) Factor=Ant Fac-Pre Fac+Cab Loss.
- 4) All ANT were tested, but we only recorded the worst case ANT1 in this report.











6.7. AC Power Line Conducted Emissions

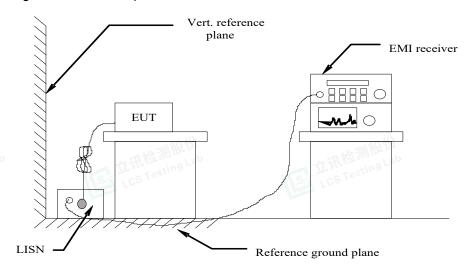
6.7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range	Limits (dBµV)				
(MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

^{*} Decreasing linearly with the logarithm of the frequency

6.7.2 Block Diagram of Test Setup



6.7.3 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

10 10 407 10 1 1 1 1	11 th 621 th 1 t 2	U 10.50 U 1 U 2
Where	CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Re	eading Amplitude	PL = 10 dB Pulse Limiter Factor

6.7.4 Test Results

Temperature	22.5℃	Humidity	53.7%	
Test Engineer Paddi Chen				

PASS.

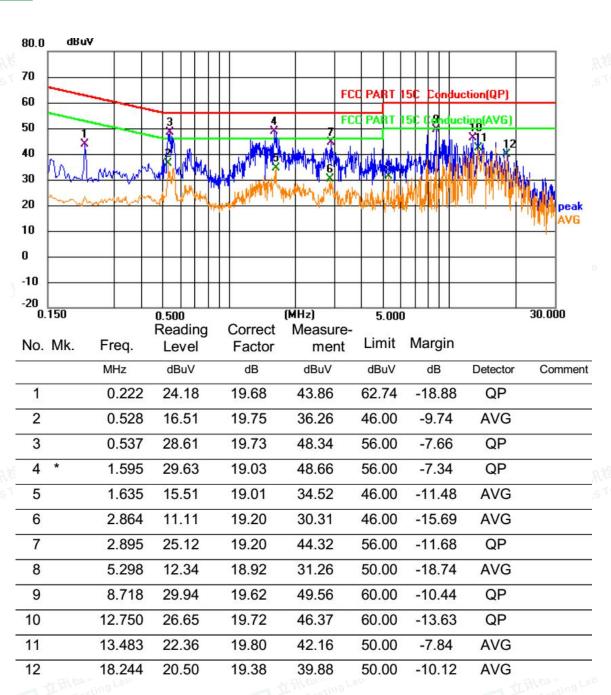
The test data please refer to following page.







Line







Scan code to check authenticity

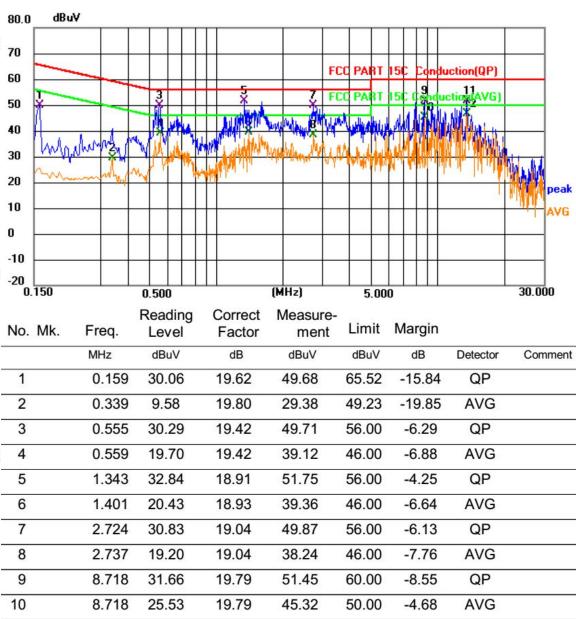






Neutral

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51.75

46.62

19.68

19.68

32.07

26.94



11

12

13.560

13.560





-8.25

-3.38

60.00

50.00

QP

AVG





^{***}Note: 1). Pre-scan all modes and recorded the worst case results in this report.
2). Measurement = Reading + Correct Factor, Margin = Measurement – Limit,
Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter.



6.8. Pseudorandom Frequency Hopping Sequence

6.8.1 Standard Applicable

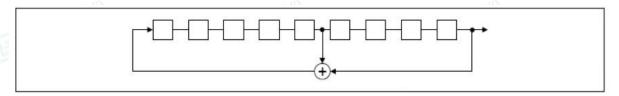
For 47 CFR Part 15C sections 15.247 (a) (1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.8.2 EUT Pseudorandom Frequency Hopping Sequence Requirement

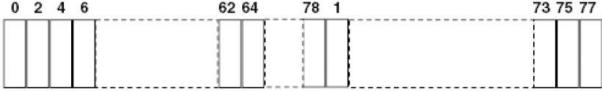
The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.











6.9. Antenna Requirement

6.9.1 Standard Applicable

According to antenna requirement of §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 re-placed 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 Sections 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 Section 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.

6.9.2 Antenna Connected Construction

6.9.2.1. Standard Applicable

According to § 15.203 & RSS-Gen, 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.

6.9.2.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is Antenna1: 4.4dBi(Max.), and the antenna is an External Antenna and no consideration of replacement. Please see EUT photo for details. Antenna2: -0.04dBi(Max.) and the antenna is an Internal Antenna and no consideration of replacement. Please see EUT photo for details.

6.9.2.3. Results: Compliance.



7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT-----





Scan code to check authenticity





