

**FCC 47 CFR PART 15 SUBPART C AND ANSI C63.10:2013  
TEST REPORT**

**For**

**USB Z-Wave Dongle**

**Model: WD6050Z2**

**Trade Name: GOOD WAY**

**Issued for**

**GOOD WAY TECHNOLOGY CO., LTD.**

**3F, No. 135, Lane 235, BAOCIAO Rd., SINDIAN District, New Taipei 231,  
Taiwan**

**Issued by**

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**Issued Date: February 19, 2016**



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## Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	02/19/2016	Initial Issue	All Page 28	Tiffany Liu

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# 1. TEST REPORT CERTIFICATION

**Applicant** : GOOD WAY TECHNOLOGY CO., LTD.  
**Address** : 3F, No. 135, Lane 235, BAOCIAO Rd., SINDIAN District,  
New Taipei 231, Taiwan  
**Equipment Under Test** : USB Z-Wave Dongle  
**Model** : WD6050Z2  
**Trade Name** : GOOD WAY  
**Tested Date** : January 13 ~ February 16, 2016

APPLICABLE STANDARD	
Standard	Test Result
FCC Part 15 Subpart C AND ANSI C63.10:2013	PASS

WE HEREBY CERTIFY THAT: The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

**Approved by:**



Sb. Lu  
Sr. Engineer

**Reviewed by:**



Gunden Lin  
Sr. Engineer

## 2. EUT DESCRIPTION

<b>Product Name</b>	USB Z-Wave Dongle
<b>Model Number</b>	WD6050Z2
<b>Identify Number</b>	T160113D06
<b>Received Date</b>	January 13, 2016
<b>Frequency Range</b>	908.42MHz
<b>Transmit Power</b>	92.39 dBµV/m @ 3m
<b>Channel Number</b>	1 Channel
<b>Transmit Data Rate</b>	40kbps
<b>Type of Modulation</b>	FSK
<b>Antenna Type</b>	Chip Antenna, Antenna Gain: -0.5 dBi
<b>Power Rating</b>	5Vdc
<b>Test Voltage</b>	120Vac, 60Hz
<b>I/O Port</b>	USB Port × 1

**Remark:**

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. For more details, please refer to the User's manual of the EUT.
3. This submittal(s) (test report) is intended for FCC ID: SW8WD6050Z2 filing to comply with Section 15.207, 15.209 and 15.249 of the FCC Part 15, Subpart C Rules.

### 3. DESCRIPTION OF TEST MODES

The EUT had been tested under operating condition.

Following channel(s) was (were) selected for the final test as listed below.

Channel	Frequency (MHz)
1	908.42

#### Conducted Emission / Radiated Emission Test (Below 1 GHz)

1. The following test modes were scanned during the preliminary test:

No.	Pre-Test mode
1	TX Mode

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test mode		
Emission	Radiated Emission	Mode 1
	Conducted Emission	

*Remark: Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.*

#### Conducted / Radiated Emission Test (Above 1 GHz):

TX Mode

*Remark : The field strength of spurious emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X, Y axis). The worst emission was found in lie-down position(X axis) and the worst case was recorded.*

### 4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10:2013, FCC CFR 47, 15.207, 15.209 and 15.249.

## 5. FACILITIES AND ACCREDITATION

### 5.1 FACILITIES

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

No.989-1, Wenshan Rd., Shangshan Village,  
Qionglin Township, Hsinchu County 30741, Taiwan (R.O.C.)

The sites are constructed in conformance with the requirements of ANSI C63.10:2013 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

### 5.2 ACCREDITATIONS

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

<b>Taiwan</b>	TAF
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The measuring facility of laboratories has been authorized or registered by the following approval agencies.

<b>Canada</b>	INDUSTRY CANADA
<b>Japan</b>	VCCI
<b>Taiwan</b>	BSMI
<b>USA</b>	FCC MRA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

**Remark:** FCC Designation Number TW1027.

### 5.3 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4-2.

PARAMETER	UNCERTAINTY
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 30 to 1000 MHz	+/- 3.97
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 1 to 18GHz	+/- 3.58
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 18 to 26 GHz	+/- 3.59
Semi Anechoic Chamber (966 Chamber_B) / Radiated Emission, 26 to 40 GHz	+/- 3.81
Conducted Emission (Mains Terminals), 9kHz to 30MHz	+/- 2.48

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

Consistent with industry standard (e.g. CISPR 22, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than  $U_{CISPR}$  which is 3.6dB and 5.2dB respectively. CCS values (called  $U_{Lab}$  in CISPR 16-4-2) is less than  $U_{CISPR}$  as shown in the table above. Therefore, MU need not be considered for compliance.



## 6. SETUP OF EQUIPMENT UNDER TEST

### SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	Serial No.
1	Notebook PC	TOSHIBA	PORTEGE R30-A	7F097011H

No.	Signal Cable Description
1	Shielded USB cable, 1.5m × 1

### SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

### EUT OPERATING CONDITION

1. EUT & peripherals setup diagram is shown in appendix setup photos.
2. Turn on the power of all equipments.
3. TX Mode:  
⇒ **Power control:**  
Frequency: 908.42MHz  
Power set : 09
4. All of the functions are under run.
5. Start test.

## 7. FCC PART 15.249 REQUIREMENTS

### 7.1 20 dB BANDWIDTH

#### LIMITS

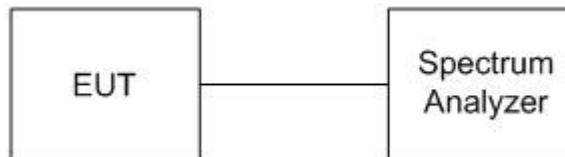
None: For reporting purposes only.

#### TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EXA Signal Analyzer	Agilent	N9010A	MY52220817	03/19/2016

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

#### TEST SETUP



#### TEST PROCEDURE

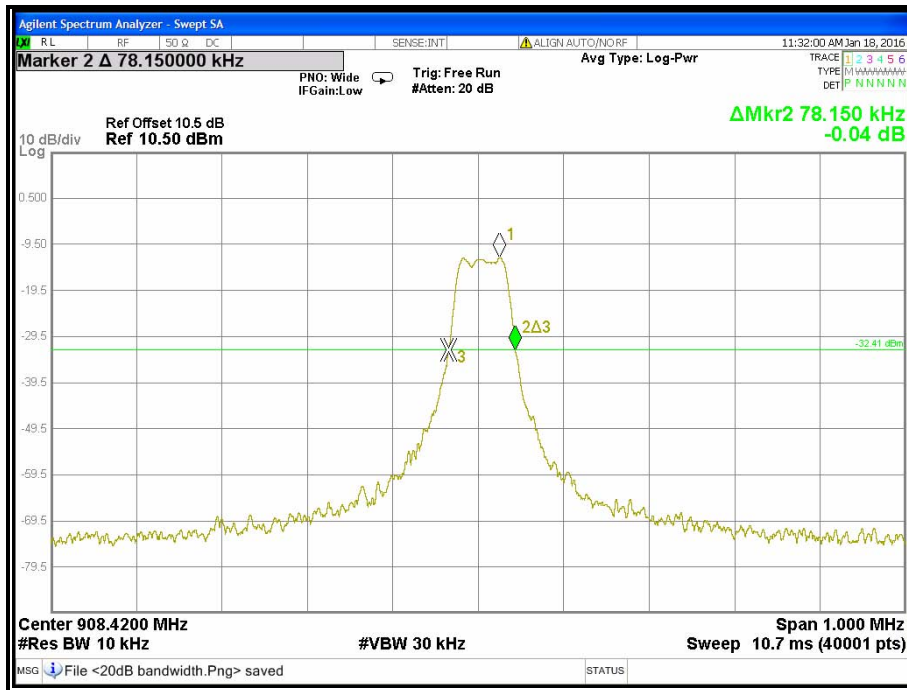
The 20dB band width was measured with a spectrum analyzer connected to RF antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate center frequency. The analyzer center frequency was set to the EUT carrier frequency, using the analyzer. Display Line and Marker Delta functions, the 20dB band width of the emission was determined.

**TEST RESULTS**

<b>Product Name</b>	USB Z-Wave Dongle	<b>Test By</b>	Davis Tseng
<b>Test Model</b>	WD6050Z2	<b>Test Date</b>	2016/01/18
<b>Test Mode</b>	Mode 1	<b>Temp. &amp; Humidity</b>	25°C, 50%

<b>Frequency (MHz)</b>	<b>20dB Bandwidth (kHz)</b>
908.42	78.15

**20dB BANDWIDTH**



## 7.2 RADIATED EMISSION

### LIMITS

(1) According to § 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	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 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	108 -121.94	1718.8 - 1722.2	13.25 -13.4
6.31175 - 6.31225	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	2655 - 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 - 3338	36.43 - 36.5
12.57675 - 12.57725	322 -335.4	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41			

**Remark:**

1. <sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
2. <sup>2</sup> Above 38.6

(2) According to § 15.205 (b) except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

(3) According to § 15.209 (a) except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (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	30
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

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

(4) According to § 15.209 (b) in the emission table above, the tighter limit applies at the band edges.

(5) According to § 15.249 (a) Except as provided in paragraph (b) of this section, the field strength of emission from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (millivolts/meter)	Measurement Distance of Harmonics (microvolts/meter)
902 - 928	50	500
2400 - 2483.5	50	500
5725 - 5875	50	500
24000 - 24250	250	2500

**TEST EQUIPMENT**

**Radiated Emission / 966Chamber\_B**

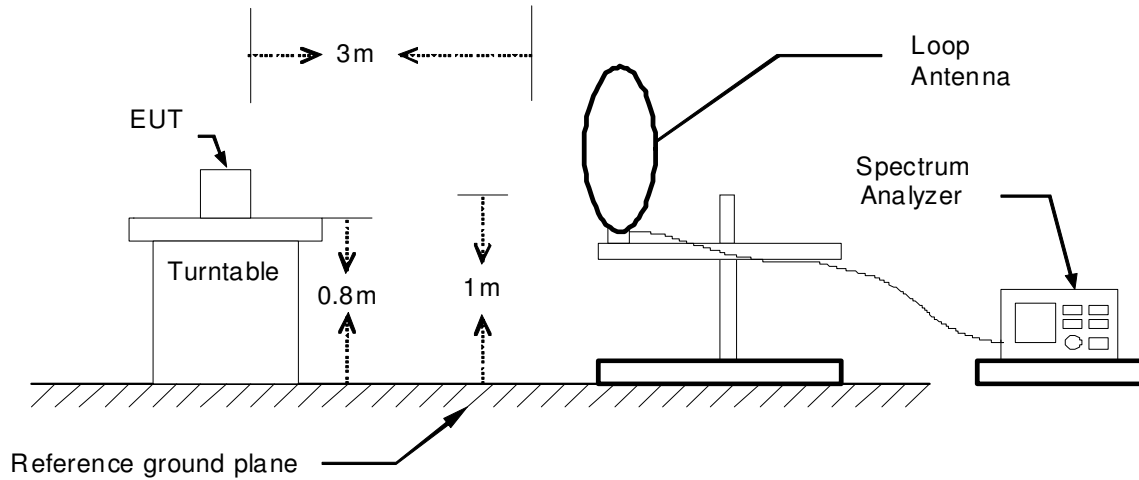
<b>Name of Equipment</b>	<b>Manufacture</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Due</b>
Spectrum Analyzer	Agilent	E4446A	MY46180323	04/14/2016
EMI Test Receiver	Rohde & Schwarz	ESCI	101131	03/19/2016
Bi-log Antenna	TESEQ	CBL 6112D	35403	08/04/2016
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-778	08/09/2016
Double-Ridged Waveguide Horn	ETS-LINDGREN	3117	00078733	11/25/2016
Horn Antenna	COM-POWER	AH-840	03077	12/08/2016
Pre-Amplifier	Agilent	8447D	2944A10052	07/14/2016
Pre-Amplifier	Agilent	8449B	3008A01916	07/14/2016
LOOP Antenna	COM-POWER	AL-130	121060	05/24/2016

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

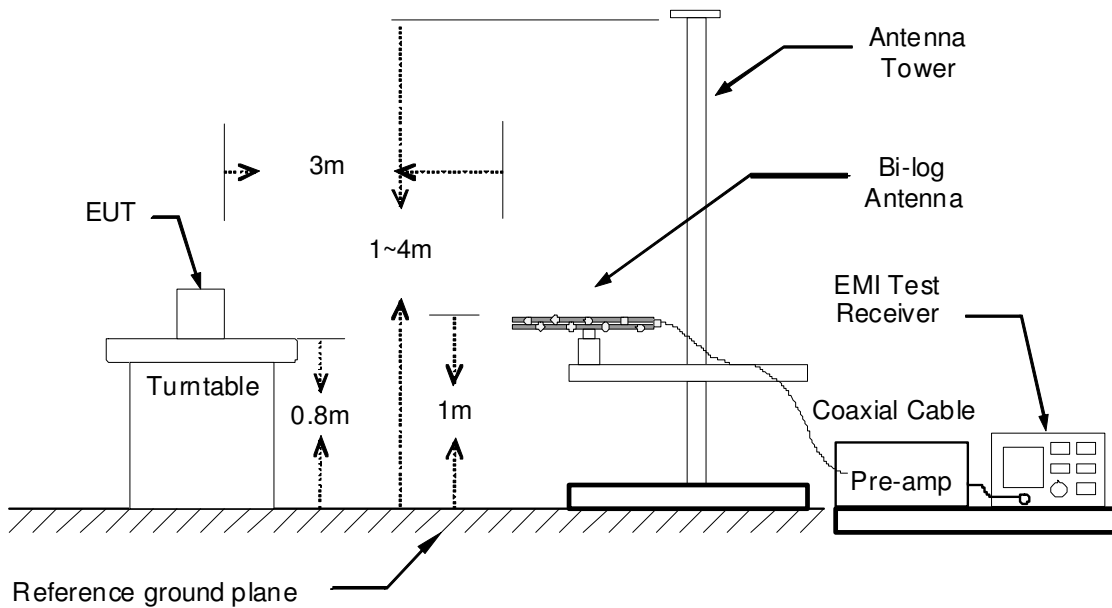
**TEST SETUP**

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

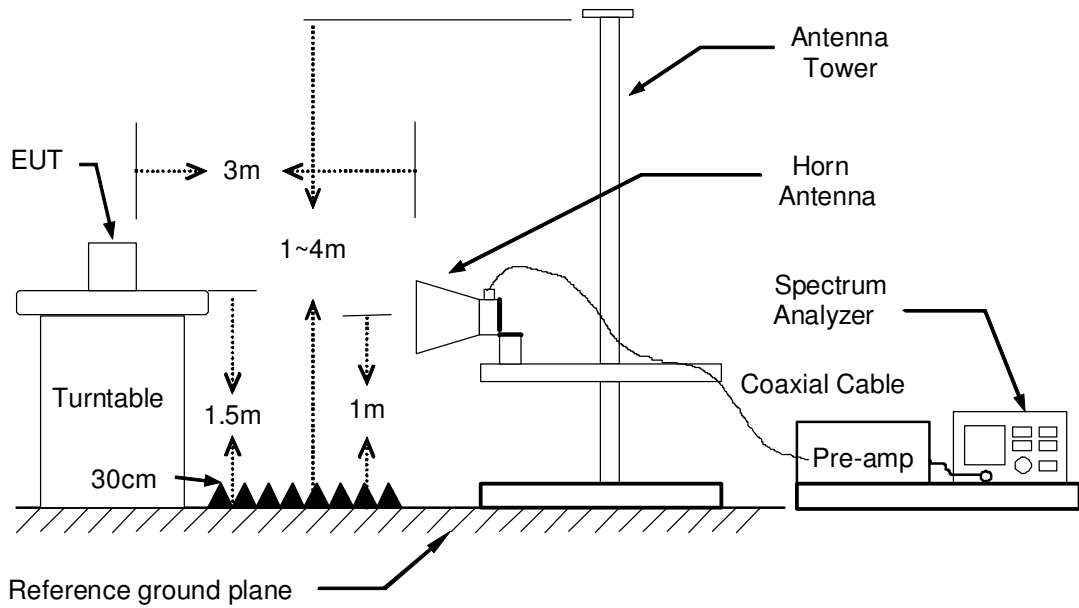
**9kHz ~ 30MHz**



**30MHz ~ 1GHz**



The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.





## **TEST PROCEDURE**

1. The EUT was placed on the top of a rotating table 0.8 and 1.5 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. While measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. While measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
3. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

### **Remark:**

1. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.*
2. *The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.*
3. *The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.*

**TEST RESULTS**

**Below 1 GHz (9kHz ~ 30MHz)**

No emission found between lowest internal used/generated frequency to 30MHz.

**Below 1 GHz (30MHz ~ 1GHz)**

<b>Product Name</b>	USB Z-Wave Dongle	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	WD6050Z2	<b>Test Date</b>	2016/02/04
<b>Test Mode</b>	Mode 1	<b>Temp. &amp; Humidity</b>	25°C, 50%

**966Chamber\_B at 3Meter / Horizontal**

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
124.09	41.10	-14.32	26.78	43.50	-16.72	1	100	Peak
260.86	42.11	-11.77	30.34	46.00	-15.66	14	100	Peak
302.57	42.00	-11.45	30.55	46.00	-15.45	3	100	Peak
536.34	42.54	-7.52	35.02	46.00	-10.98	12	100	Peak
681.84	42.11	-5.88	36.23	46.00	-9.77	360	100	Peak
826.37	41.17	-3.84	37.33	46.00	-8.67	49	200	Peak
908.82	95.20	-2.81	92.39	94.00	-1.61	208	100	QP

**966Chamber\_B at 3Meter / Vertical**

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
58.13	45.40	-20.65	24.75	40.00	-15.25	328	100	Peak
115.36	41.57	-14.53	27.04	43.50	-16.46	26	100	Peak
357.86	41.97	-10.05	31.92	46.00	-14.08	80	200	Peak
557.68	42.31	-7.21	35.10	46.00	-10.90	198	100	Peak
657.59	41.65	-6.06	35.59	46.00	-10.41	322	200	Peak
832.19	41.59	-3.76	37.83	46.00	-8.17	59	200	Peak
908.82	87.38	-2.81	84.57	94.00	-9.43	111	100	Peak

**Remark:**

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – PreAmp.Gain (dB)
3. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
4. Margin (dB) = Remark result (dBuV/m) - Quasi-peak limit (dBuV/m).

**Above 1 GHz**

<b>Product Name</b>	USB Z-Wave Dongle	<b>Test By</b>	Rex Chiu
<b>Test Model</b>	WD6050Z2	<b>Test Date</b>	2015/01/28
<b>Test Mode</b>	Mode 1	<b>Temp. &amp; Humidity</b>	25°C, 50%

**966Chamber\_B at 3Meter / Horizontal**

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1108.00	45.50	-2.73	42.77	74.00	-31.23	298	200	Peak
1999.00	42.11	2.09	44.20	74.00	-29.80	65	100	Peak
2386.00	41.94	2.83	44.77	74.00	-29.23	246	200	Peak
3232.00	42.15	4.36	46.51	74.00	-27.49	1	100	Peak
4033.00	41.09	6.51	47.60	74.00	-26.40	331	200	Peak
4717.00	40.59	8.04	48.63	74.00	-25.37	197	100	Peak
5518.00	39.88	9.58	49.46	74.00	-24.54	60	100	Peak
8173.00	37.50	13.01	50.51	54.00	-3.49	58	100	Average
8173.00	41.91	13.01	54.92	74.00	-19.08	58	100	Peak

**966Chamber\_B at 3Meter / Vertical**

Freq. MHz	Reading dBuV	C.F. dB/m	Result dBuV/m	Limit dBuV/m	Margin dB	Azimuth deg	Height cm	Remark
1081.00	45.91	-2.73	43.18	74.00	-30.82	96	200	Peak
1963.00	42.01	1.74	43.75	74.00	-30.25	244	100	Peak
2422.00	42.05	2.90	44.95	74.00	-29.05	320	100	Peak
3241.00	42.98	4.37	47.35	74.00	-26.65	3	200	Peak
4168.00	42.13	6.87	49.00	74.00	-25.00	358	200	Peak
4699.00	40.96	8.02	48.98	74.00	-25.02	329	100	Peak
5662.00	39.03	9.91	48.94	74.00	-25.06	120	100	Peak
6400.00	40.16	11.37	51.53	74.00	-22.47	180	100	Peak

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Average test would be performed if the peak result were greater than the average limit.
3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
4. Result = Reading + Correction Factor  
 Margin = Result - Limit  
 Remark Peak = Result(PK) - Limit(PK)  
 Remark AVG = Result(AV) - Limit(AV)

### 7.3 CONDUCTED EMISSION

#### LIMITS

§ 15.207 (a) Except as shown in paragraph (b) and (c) this section, for an intentional radiator 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, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

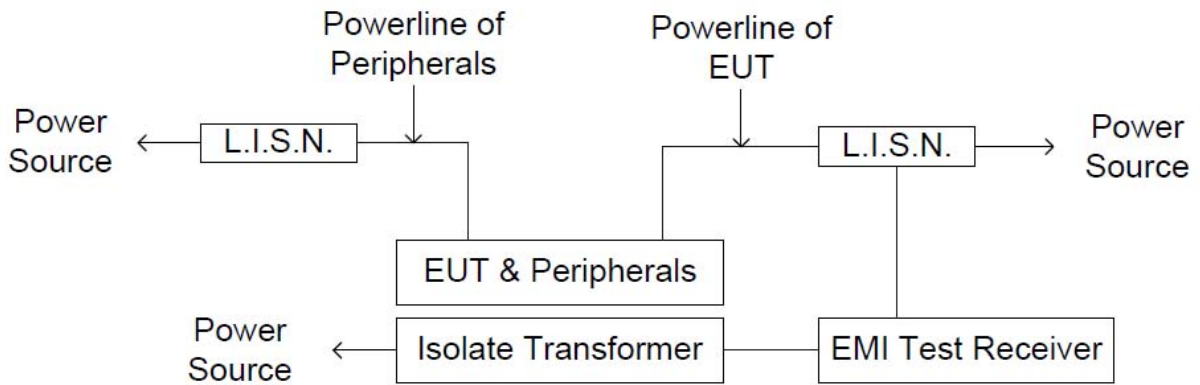
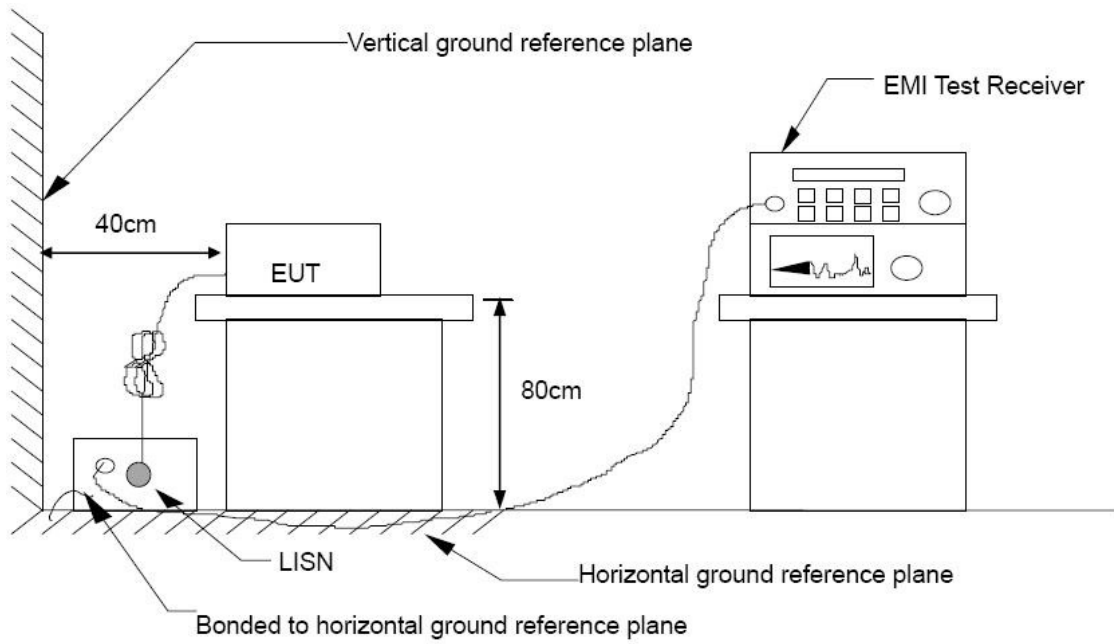
Frequency Range (MHz)	Conducted Limit (dBµv)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5.00	56	46
5.00 - 30.0	60	50

#### TEST EQUIPMENT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
L.I.S.N	Schwarzbeck	NSLK 8127	8127 465	08/05/2016
L.I.S.N	Schwarzbeck	NSLK 8127	8127 473	03/09/2016
EMI Test Receiver	Rohde & Schwarz	ESHS 30	838550/003	10/31/2016
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100111	06/28/2016

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

**TEST SETUP**



## **TEST PROCEDURE**

The basic test procedure was in accordance with ANSI C63.10:2013.

The test procedure is performed in a 4m × 3m × 2.4m (L×W×H) shielded room.

The EUT along with its peripherals were placed on a 1.0m (W) × 1.5m (L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.

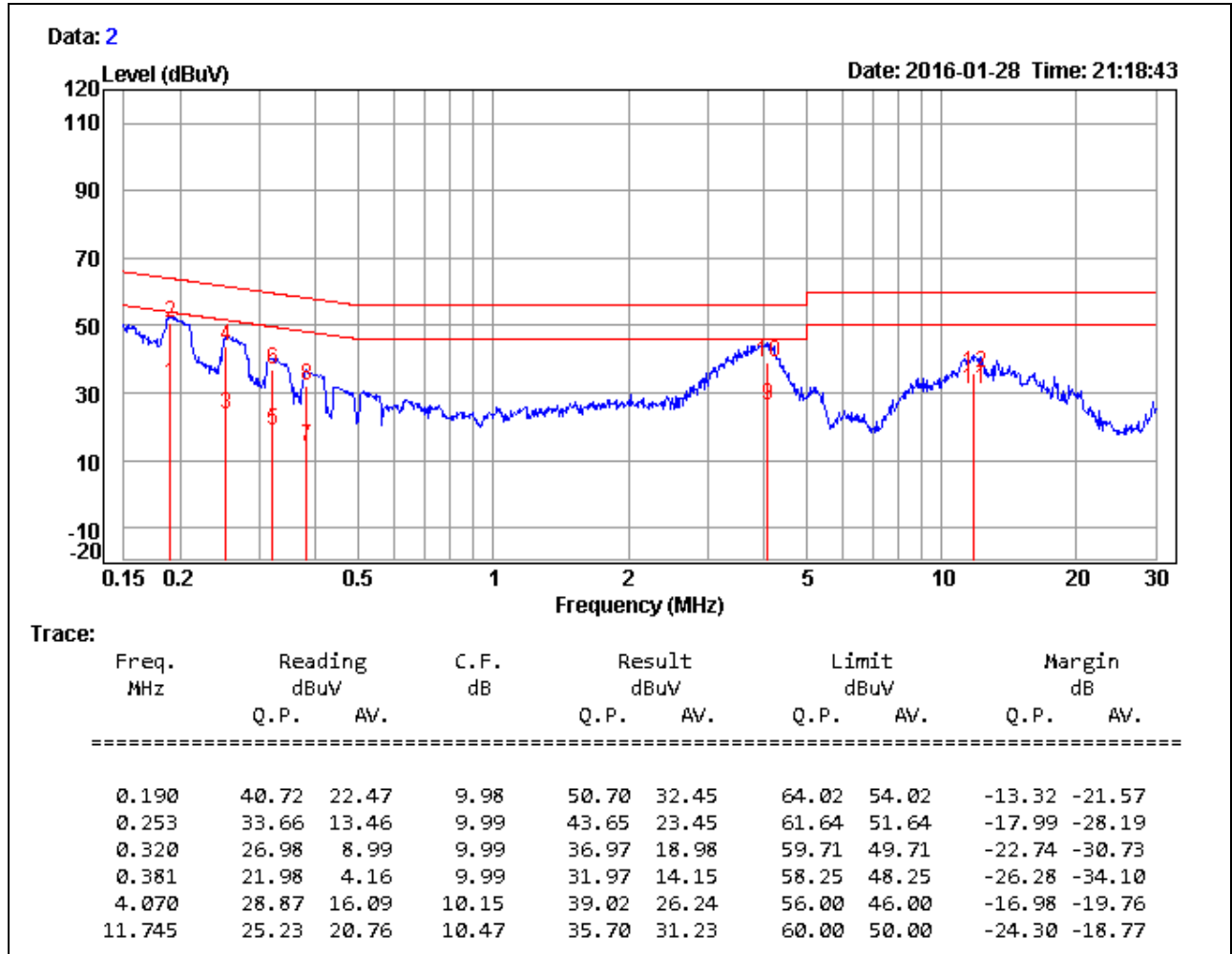
The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.

The EUT was located so that the distance between the boundary of the EUT and the closest surface of the LISN is 0.8 m. Where a mains flexible cord was provided by the manufacturer shall be 1 m long, or if in excess of 1 m, the excess cable was folded back and forth as far as possible so as to form a bundle not exceeding 0.4 m in length.

**TEST RESULTS**

<b>Product Name</b>	USB Z-Wave Dongle	<b>Test By</b>	Jey Li
<b>Test Model</b>	WD6050Z2	<b>Test Date</b>	2016/01/28
<b>Test mode</b>	Mode 1	<b>Temp. &amp; Humidity</b>	24°C, 50%

**LINE**

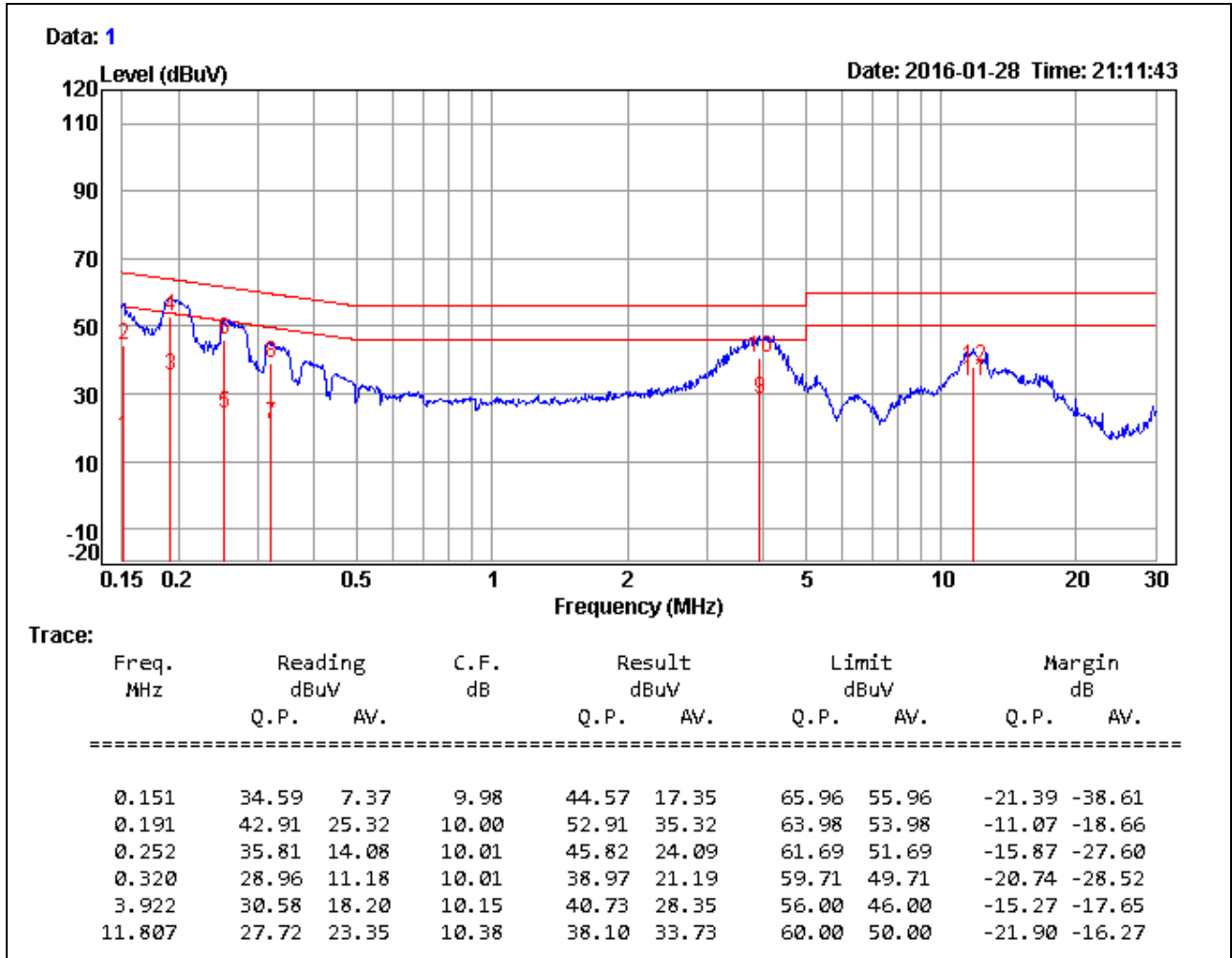


**Remark:**

1. Correction Factor = Insertion loss + Cable loss
2. Result level = Reading Value + Correction factor
3. Margin value = Result level – Limit value

<b>Product Name</b>	USB Z-Wave Dongle	<b>Test By</b>	Jey Li
<b>Test Model</b>	WD6050Z2	<b>Test Date</b>	2016/01/28
<b>Test Mode</b>	Mode 1	<b>Temp. &amp; Humidity</b>	24°C, 50%

**NEUTRAL**



**Remark:**

1. Correction Factor = Insertion loss + Cable loss
2. Result level = Reading Value + Correction factor
3. Margin value = Result level – Limit value