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EMC TEST REPORT

Report No. : TS09070032-EME

Model No. : TTD-47T

Issued Date : Sep. 29, 2009

Applicant: Tranwo Technology Corp.

6F., No. 49, Guangming 6th Rd., Jubei City, Hsinchu,

Taiwan

Test Method/ FCC Part 15 Subpart C Section §15.205 \ §15.207 \

Standard: §15.209 \ §15.247, DA 00-705 and ANSI C63.4/2003.

Test By: Intertek Testing Services Taiwan Ltd.

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Summary of Tests

2.4GHz Digital Wireless USB Camera-Model: TTD-47T FCC ID: O6LTTD-47T

Test	Reference	Results
20dB Bandwidth test	15.247(a)(1)	Pass
Carrier Frequency Separation test	15.247(a)(1)	Pass
Number of hopping frequencies test	15.247(a)(1)	Pass
Time of Occupancy (dwell time) test	15.247(a)(1)	Pass
Maximum Output Power test	15.247(b)	Pass
RF Antenna Conducted Spurious test	15.247(d)	Pass
Radiated Spurious Emission test	15.205, 15.209	Pass
Emission on the Band Edge test	15.247(d)	Pass
AC Power Line Conducted Emission test	15.207	Pass



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1. General information

1.1 Identification of the EUT

Product: 2.4GHz Digital Wireless USB Camera

Model No.: TTD-47T

FCC ID: O6LTTD-47T

Rated Power: DC 6 V from adapter (Model No: HK-X10-A06)

I/P Voltage: 100-240 Vac, 50/60 Hz

Operating Frequency: 2408.625MHz ~ 2469.375 MHz

Channel Number: 18 Channel
Type of Modulation: GFSK, FHSS

Power Cord: N/A
Data Cable: N/A

Sample receiving date: Jul.13, 2009

Testing date: Jul.13, 2009 ~ Sep. 29, 2009

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Note 2: When determining the test conclusion, the Measurement

Uncertainty of test has been considered.

A FCC DoC report has been generated for the client.





1.2 Additional information about the EUT

The EUT is a 2.4GHz Digital Wireless USB Camera, and was defined as information technology equipment.

Channel Table

Channel	TX Freq	Channel	TX Freq
0	2408.625 MHz	45	2440.125 MHz
4	2412.000 MHz	32	2444.625 MHz
8	2415.375 MHz	36	2448.000 MHz
12	2418.750 MHz	40	2451.375 MHz
16	2423.250 MHz	44	2454.750 MHz
20	2426.625 MHz	48	2458.125 MHz
24	2430.000 MHz	52	2462.625 MHz
19	2433.375 MHz	56	2466.000 MHz
28	2436.750 MHz	60	2469.375 MHz

For more detail features, please refer to User's manual as file name "Installation guide.pdf"

1.3 Antenna description

The EUT uses a permanently connected antenna.

Antenna Gain : 1.5 dBi max

Antenna Type : Monopole antenna

Connector Type : N/A

1.4 Peripherals equipment

Peripherals	Manufacturer	Product No.	Serial No.
Notebook PC	DELL	Latitude D610	2YWZK1S
USB Dongle	Tranwo	TTD-52R	N/A





2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Section § 15.205 \ §15.207 \ §15.209 \ §15.247, DA 00-705 and ANSI C63.4/2003.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

The EUT was supplied DC 6 V from adapter (Test voltage: 120 Vac, 60 Hz) and it was run in TX mode that was controlled by "RF Engineer tools" program.

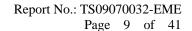




2.3 Test equipment

Equipment	Brand	Frequency range	Model No.
EMI Test Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCS 30
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30
Spectrum Analyzer	Rohde & Schwarz	20Hz~40GHz	FSEK 30
Horn Antenna	SCHWARZBECK	1GHz~18GHz	BBHA 9120 D
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170
Bilog Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9168
Pre-Amplifier	MITEQ	100MHz~26.5GHz	919981
Pre-Amplifier	MITEQ	26GHz~40GHz	828825
Wideband Peak Power Meter/ Sensor	Anritsu	100MHz~18GHz	ML2487A/ MA2491A
Controller	HDGmbH	N/A	HD 100
Antenna Tower	HDGmbH	N/A	MA 240
Turn Table	HDGmbH	N/A	DS 420S
LISN	Rohde & Schwarz	9KHz~30MHz	ESH3-Z5

Note: The above equipments are within the valid calibration period.





3. 20dB Bandwidth test

3.1 Operating environment

Temperature: 25 °C Relative Humidity: 55 % Atmospheric Pressure: 1023 hPa

3.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The 20dB bandwidth per FCC §15.247(a)(1) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at 100 kHz, the video bandwidth ≥ RBW, and the SPAN may equal to approximately 2 to 3 times the 20dB bandwidth. The test was performed at 3 channels (lowest, middle and highest channel). The maximum 20dB modulation bandwidth is in the following Table.

3.3 Measured data of modulated bandwidth test results

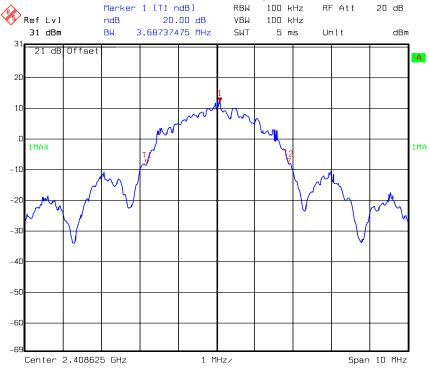
Channel	Frequency (MHz)	Bandwidth (kHz)
0	2408.625	3687.375
28	2436.750	3687.375
60	2469.375	3687.375

Please see the plot below.





20 dB Bandwidth @ channel 0, 2408.625 MHz



Date: 29.SEP.2009 14:00:18

20 dB Bandwidth @ channel 28, 2436.750 MHz



Date: 29.SEP.2009 14:02:20





20 dB Bandwidth @ channel 60, 2469.375 MHz







4. Carrier Frequency Separation test

4.1 Operating environment

Temperature: 25 °C Relative Humidity: 55 % Atmospheric Pressure: 1023 hPa

4.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The carrier frequency separation per FCC $\S15.247(a)(1)$ was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at $\ge 1\%$ of the span, the video bandwidth \ge RBW, and the SPAN was wide enough to capture the peaks of two adjacent channels. The carrier frequency separation result is in the following Table.

4.3 Measured data of Carrier Frequency Separation test result

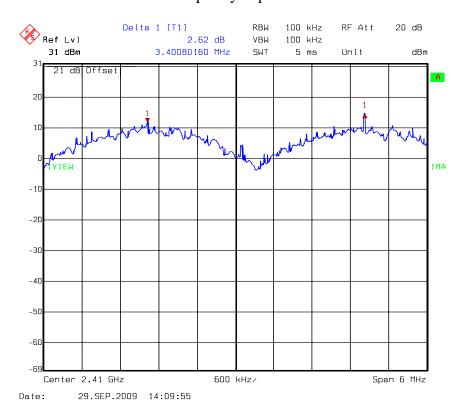
	Measurement
Frequency (MHz)	Frequency separation
	(kHz)
2408.625	3400.802
2412.000	3400.802

Please see the plot below.





Carrier Frequency Separation test







5. Number of hopping frequencies test

5.1 Operating environment

Temperature: 25 °C Relative Humidity: 55 % Atmospheric Pressure: 1023 hPa

5.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The number of hopping frequencies per FCC $\S15.247(a)(1)$ was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at $\ge 1\%$ of the span, the video bandwidth \ge RBW, and the SPAN was the frequency band of operation. The carrier frequency separation result is in the following Table.

5.3 Measured data of number of hopping frequencies test result

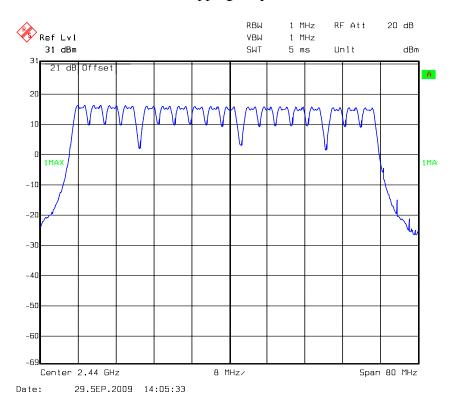
Frequency Range (MHz)	Total hopping channels
2408.625 ~ 2469.375	18

Please see the plot below.





Number of hopping frequencies test







6. Time of Occupancy (dwell time) test

6.1 Operating environment

Temperature: 25 °C Relative Humidity: 55 % Atmospheric Pressure: 1023 hPa

6.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The time of occupancy (dwell time) per FCC §15.247(a)(1) was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at 1MHz, the video bandwidth ≥ RBW, and the zero span function of spectrum analyzer was enable. The EUT has its hopping function enable.

Total sweep time=0.4*18ch=7.2 seconds

We determined to reduce the sweep time to 720ms,

Count the number of hops and multiply by 10, the total number of hops will be multiplied by the measured time of one pulse.

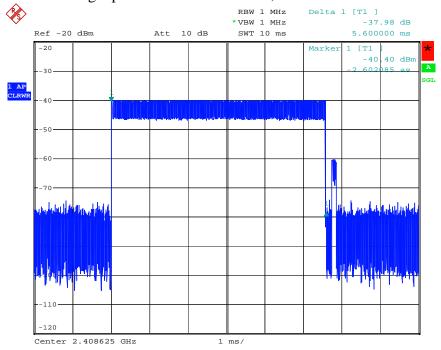
Number of hops in 720ms=7, total number of hops in 7.2s=7(10)=70 Single pulse width=0.0056s, time of occupancy=70*(0.0056)=0.392s <0.4sec

Please see the plot below.



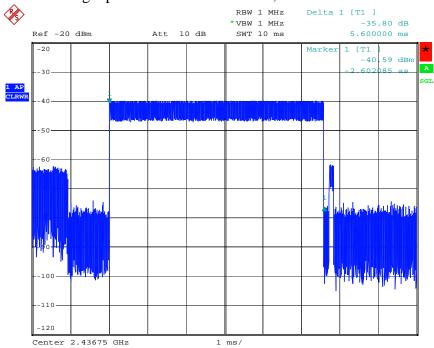


Single pulse width @ channel 0, 2408.625 MHz



Date: 29.SEP.2009 11:13:53

Single pulse width @ channel 28, 2436.750 MHz

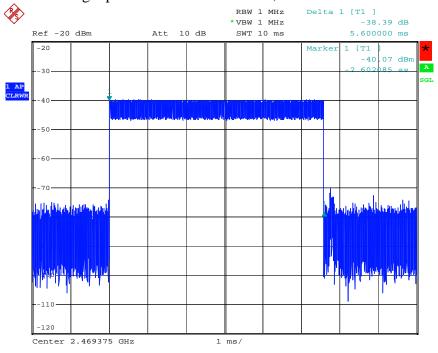


Date: 29.SEP.2009 11:13:26



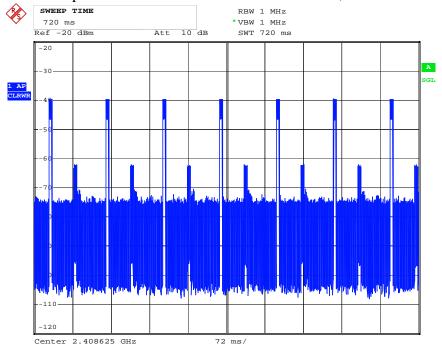


Single pulse width @ channel 60, 2469.375 MHz



Date: 29.SEP.2009 11:12:49

Number of pulses observed in 720ms=7 @ channel 0, 2408.625 MHz

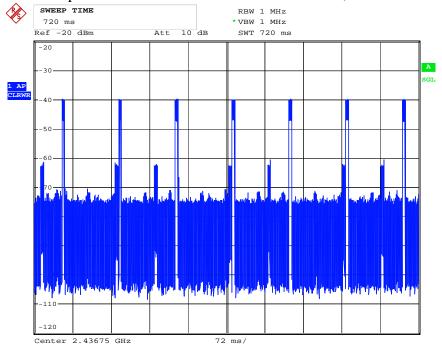


Date: 29.SEP.2009 11:07:13



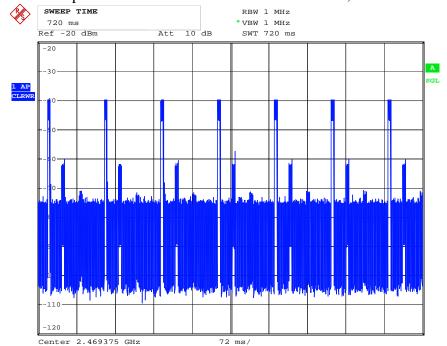


Number of pulses observed in 720ms=7 @ channel 28, 2436.750 MHz



Date: 29.SEP.2009 11:08:33

Number of pulses observed in 720ms=7 @ channel 60, 2469.375 MHz



Date: 29.SEP.2009 11:09:14





7. Maximum Output Power test

7.1 Operating environment

Temperature: 25 °C Relative Humidity: 50 % Atmospheric Pressure: 1022 hPa

7.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The power output per FCC §15.247(b) was measured on the EUT using a 50 ohm SMA cable connected to peak power meter via power sensor. Power was read directly and cable loss correction (1.0 dB) was added to the reading to obtain power at the EUT antenna terminals. The test was performed at 3 channels (lowest, middle and highest channel).

7.3 Measured data of Maximum Output Power test results

Freq.	C.L.	Reading		ted Peak t Power	Limit
(MHz)	(dB)	(dBm)	(dBm)	(mW)	(dBm)
2408.625	1.0	15.91	16.91	49.09	21
2436.750	1.0	15.65	16.65	46.24	21
2469.375	1.0	15.55	16.55	45.19	21

Remark: Conducted Peak Output Power = Reading + C.L.



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8. RF Antenna Conducted Spurious test

8.1 Operating environment

Temperature: 25 °C Relative Humidity: 58 %

8.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines DA 00-705.

The measurements were performed from 30MHz to 25GHz RF antenna conducted per FCC 15.247 (c) was measured from the EUT antenna port using a 50ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set at 100 kHz.

Harmonics and spurious noise must be at least 20dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The table below is the results from the highest emission for each channel within the authorized band. This table was used to determine the spurious limits for each channel.

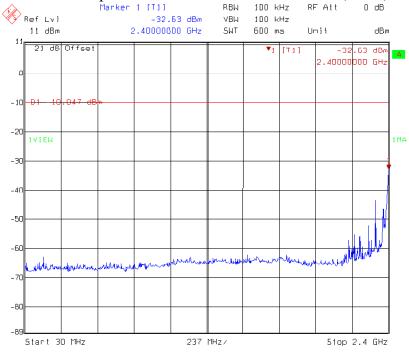
8.3 Measured data of the highest RF Antenna Conducted Spurious test result

The test results please see the plot below.



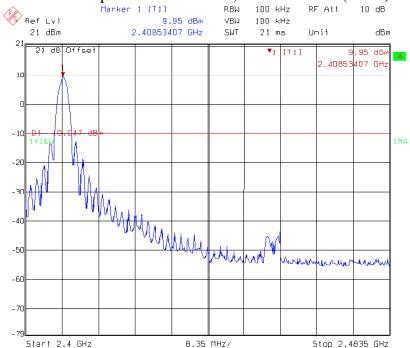


conducted spurious @ channel 0, 2408.625 MHz (1 of 3)



Title: Conductive-Spurious
Comment A: 30MHz~2400MHz
Date: 29.5EP.2009 14:12:25

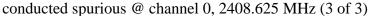
conducted spurious @ channel 0, 2408.625 MHz (2 of 3)

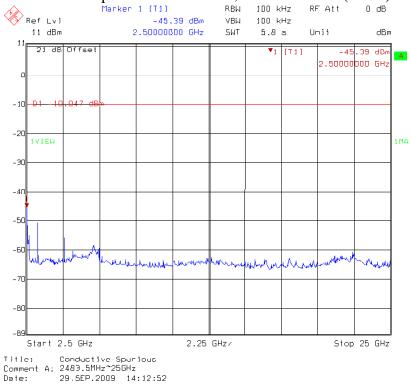


Title: Conductive-Spurious Comment A: 2400MHz~2483.5MHz Date: 29.5EP.2009 14:12:04

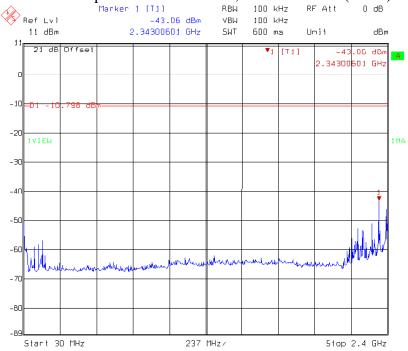








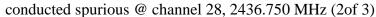
conducted spurious @ channel 28, 2436.750 MHz (1 of 3)

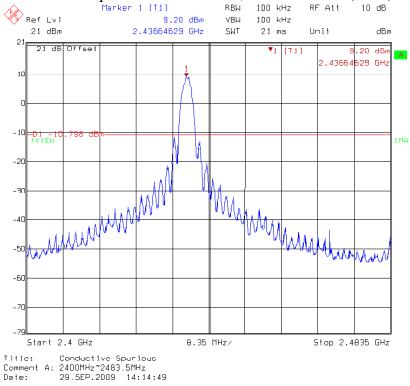


Title: Conductive-Spurious
Comment A: 30MHz~2400MHz
Date: 29.5EP.2009 14:15:09

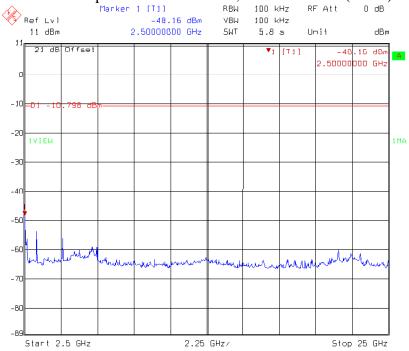








conducted spurious @ channel 28, 2436.750 MHz (3 of 3)

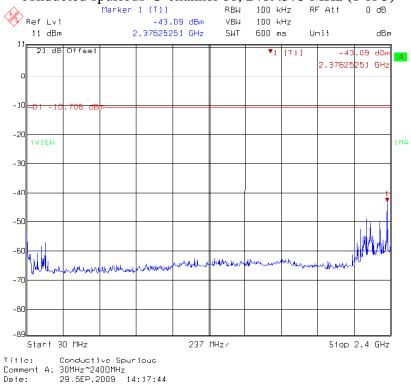


Title: Conductive-Spurious
Comment A: 2483.5MHz~25GHz
Date: 29.5EP.2009 14:15:36

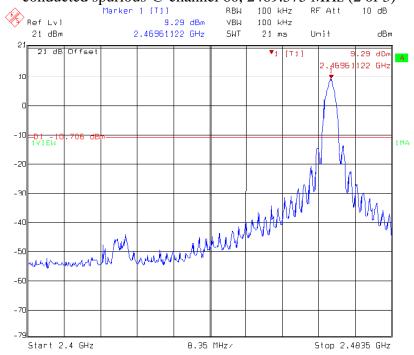








conducted spurious @ channel 60, 2469.375 MHz (2 of 3)

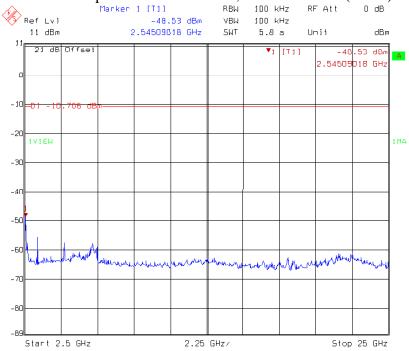


Title: Conductive-Spurious Comment A: 2400MHz~2483.5MHz Date: 29.5EP.2009 14:17:24





conducted spurious @ channel 60, 2469.375 MHz (3 of 3)



Title: Conductive-Spurious Comment A: 2483.5MHz~25GHz Date: 29.5EP.2009 14:18:11





9. Radiated Emission test

9.1 Operating environment

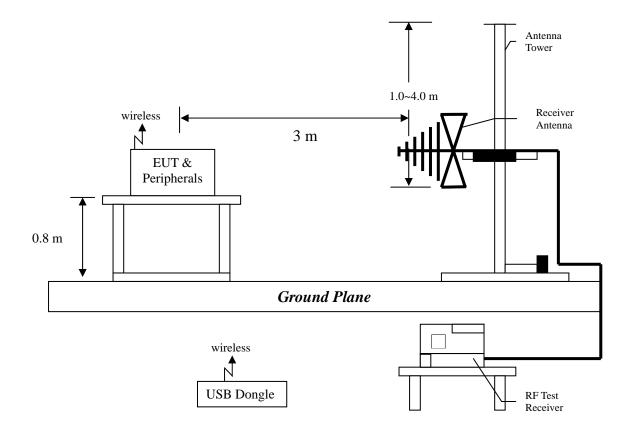
Temperature: 23 °C Relative Humidity: 53 % Atmospheric Pressure: 1023 hPa

9.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines DA 00-705 and $ANSI\ C63.4/2003$.

The Diagram below shows the test setup, which is utilized to make these measurements.

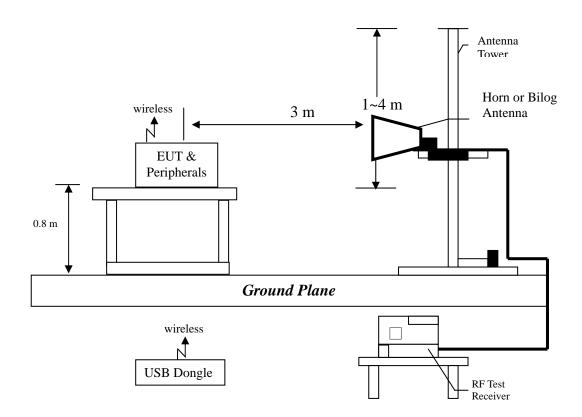
The frequency spectrum from 30MHz to 1000MHz was investigated.







The frequency spectrum from over 1GHz was investigated.



Radiated emission measurements were performed from 30MHz to 25GHz. Spectrum Analyzer Resolution Bandwidth is 100kHz or greater for frequencies 30MHz to 1GHz, 1MHz – for frequencies above 1GHz.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.





The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent 3 meter reading using inverse scaling with distance.

The EUT configuration please refer to the "Spurious set-up photo.pdf".

9.3 Emission limits

The spurious Emission shall test through the 10th harmonic. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Frequency	Limits
(MHz)	$(dB \mu V/m@3m)$
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:

- 1. In the above table, the tighter limit applies at the band edges.
- 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Measurement uncertainty was calculated in accordance with TR 100 028-1.

Parameter	Uncertainty
Radiated Emission	±5.056 dB





9.4 Radiated spurious emission test data

9.4.1 Measurement results: frequencies equal to or less than 1 GHz

The test was performed on EUT under 2408.625 MHz, 2436.750 MHz and 2469.375 MHz continuously transmitting mode. The worst case occurred at 2408.625 MHz.

EUT : TTD-47T

Worst Case : TX channel 0, 2408.625 MHz

Antenna	Freq.	Receiver	Corr.	Reading	Corrected	Limit	Margin
Polariz.			Factor		Level	@ 3 m	
(V/H)	(MHz)	Detector	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)
V	527.610	QP	19.46	23.77	43.23	46.00	-2.77
V	551.860	QP	19.53	18.13	37.66	46.00	-8.34
V	576.110	QP	20.71	22.09	42.80	46.00	-3.20
V	599.390	QP	20.71	14.64	35.35	46.00	-10.65
V	623.640	QP	20.75	15.08	35.83	46.00	-10.17
V	671.170	QP	21.50	15.40	36.90	46.00	-9.10
Н	119.240	QP	10.54	24.73	35.26	43.50	-8.24
Н	167.740	QP	13.84	17.70	31.53	43.50	-11.97
Н	335.550	QP	14.40	20.91	35.30	46.00	-10.70
Н	575.140	QP	20.84	14.54	35.37	46.00	-10.63
Н	671.170	QP	21.52	16.07	37.58	46.00	-8.42
Н	719.670	QP	22.44	11.86	34.30	46.00	-11.70

Remark:

- 1. Corr. Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Corr. Factor



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9.4.2 Measurement results: frequency above 1GHz

EUT : TTD-47T

Test Condition : Tx at channel 0, 2408.625 MHz

Frequency	Spectrum	Antenna	Correction	Reading	Duty cycle	Corrected	Limit	Margin
	Analyzer	Polariz.	Factor		correction factor	Level	@ 3 m	
(MHz)	Detector	(H/V)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4816.00	PK	V	-3.93	49.84	0.00	45.91	74.00	-28.09
4816.00	AV	V	-3.93	49.84	-25.03	20.88	54.00	-33.12
7224.00	PK	V	1.07	57.15	0.00	58.22	74.00	-15.78
7224.00	AV	V	1.07	57.15	-25.03	33.19	54.00	-20.81
4816.00	PK	Н	-3.93	45.98	0.00	42.05	74.00	-31.95
4816.00	AV	Н	-3.93	45.98	-25.03	17.02	54.00	-36.98
7224.00	PK	Н	1.07	62.53	0.00	63.60	74.00	-10.40
7224.00	AV	Н	1.07	62.53	-25.03	38.57	54.00	-15.43

Remark:

- 1. Correction Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Correction Factor Preamp. Gain
- 3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.
- 4.Duty cycle correction factor = 20log (dwell time/100ms)

 $= 20\log (5.6 \text{ms}/100 \text{ms}) = -25.03$

Please see dwell time test in page 34 of this report.



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EUT : TTD-47T

Test Condition : Tx at channel 28, 2436.750 MHz

Frequency	Spectrum	Antenna	Correction	Reading	Duty cycle	Corrected	Limit	Margin
	Analyzer	Polariz.	Factor		correction factor	Level	@ 3 m	
(MHz)	Detector	(H/V)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4872.00	PK	V	-3.86	50.76	0.00	46.90	74.00	-27.10
4872.00	AV	V	-3.86	50.76	-25.03	21.87	54.00	-32.13
7308.00	PK	V	1.24	57.11	0.00	58.35	74.00	-15.65
7308.00	AV	V	1.24	57.11	-25.03	33.32	54.00	-20.68
4872.00	PK	Н	-3.86	50.73	0.00	46.87	74.00	-27.13
4872.00	AV	Н	-3.86	50.73	-25.03	21.84	54.00	-32.16
7308.00	PK	Н	1.24	65.29	0.00	66.53	74.00	-7.47
7308.00	AV	Н	1.24	65.29	-25.03	41.50	54.00	-12.50

Remark:

- 1. Correction Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Correction Factor Preamp. Gain
- 3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.
- 4.Duty cycle correction factor = 20log (dwell time/100ms)

$$= 20\log (5.6 \text{ms}/100 \text{ms}) = -25.03$$

Please see dwell time test in page 34 of this report.



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EUT : TTD-47T

Test Condition : Tx at channel 60, 2469.375 MHz

Frequency	Spectrum	Antenna	Correction	Reading	Duty cycle	Corrected	Limit	Margin
	Analyzer	Polariz.	Factor		correction factor	Level	@ 3 m	
(MHz)	Detector	(H/V)	(dB/m)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
4938.00	PK	V	-3.79	57.63	0.00	53.84	74.00	-20.16
4938.00	AV	V	-3.79	57.63	-25.03	28.81	54.00	-25.19
7407.00	PK	V	1.57	59.87	0.00	61.44	74.00	-12.56
7407.00	AV	V	1.57	59.87	-25.03	36.41	54.00	-17.59
4938.00	PK	Н	-3.79	54.45	0.00	50.66	74.00	-23.34
4938.00	AV	Н	-3.79	54.45	-25.03	25.63	54.00	-28.37
7407.00	PK	Н	1.57	67.89	0.00	69.46	74.00	-4.54
7407.00	AV	Н	1.57	67.89	-25.03	44.43	54.00	-9.57

Remark:

- 1. Correction Factor = Antenna Factor + Cable Loss
- 2. Corrected Level = Reading + Correction Factor Preamp. Gain
- 3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.
- 4. Duty cycle correction factor = 20log (dwell time/100ms)

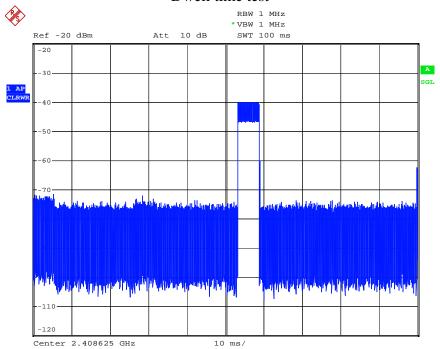
 $= 20\log (5.6 \text{ms}/100 \text{ms}) = -25.03$

Please see dwell time test in page 34 of this report.



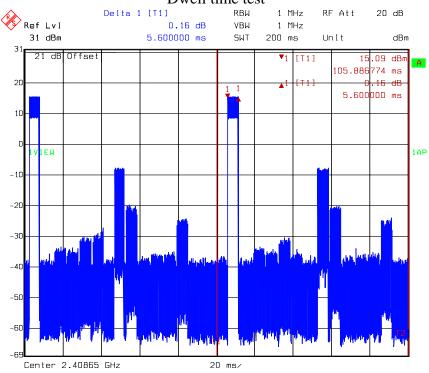


Dwell time test



Date: 29.SEP.2009 11:16:53

Dwell time test



Date: 29.SEP.2009 15:58:38





10. Emission on the band edge §FCC 15.247(d)

In any 100kHz bandwidth outside the frequency band in which the spread spectrum 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.

10.1 Test setup & procedure

Please refer to the clause 9.2 of this report.

Please see the plot below.





10.2 Test Result

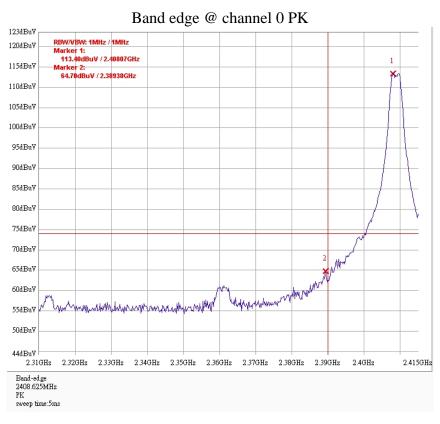
Channel	Measurement Freq.Band (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
0 (lowest)	2310-2390	PK	62.67	74	-11.33
		AV	37.64	54	-16.36
60 (highest)	2483.5-2500	PK	64.45	74	-9.55
		AV	39.42	54	-14.58

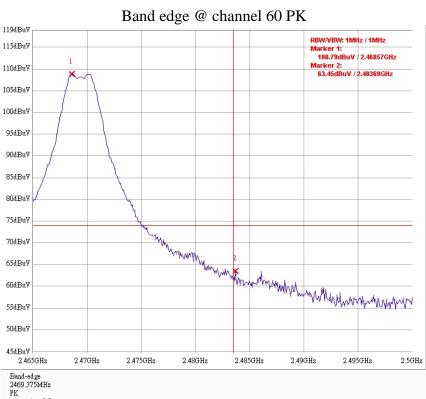
Note: Duty cycle correction factor = -25.03 dB





10.2.1 Band-edge





sweep time:2.5ms



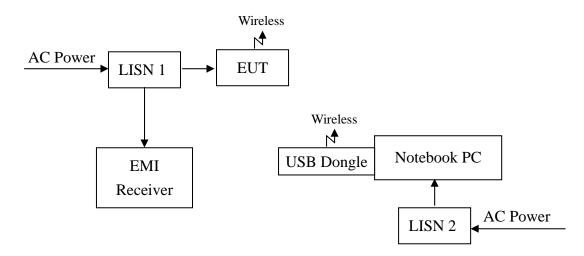


11. Power Line Conducted Emission test §FCC 15.207

11.1 Operating environment

Temperature: 25 °C Relative Humidity: 60 % Atmospheric Pressure 1023 hPa

11.2 Test setup & procedure



The test procedure was according to ANSI C63.4/2003.

The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement. The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

The EUT configuration please refer to the "Conducted set-up photo.pdf".



11.3 Emission limit

Freq.	Conducted Limit (dBuV)					
(MHz)	Q.P.	Ave.				
0.15~0.50	66 – 56*	56 – 46*				
0.50~5.00	56	46				
5.00~30.0	60	50				

^{*}Decreases with the logarithm of the frequency.

11.4 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of conducted emission measurement is ± 2.6 dB.





11.5 Power Line Conducted Emission test data

Phase : Line

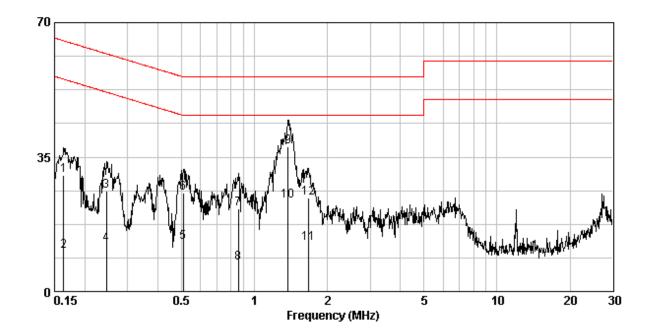
EUT : TTD-47T

Test Condition : Normal operating mode

Frequency	Corr. Factor	Level Qp	Limit Qp	Level AV	Limit Av		rgin HB)
(MHz)	(dB)	(ďBuV)	(ďBu∜)	(dBuV)	(dBuV)	Qp	Av
0.16	0.81	30.34	65.30	10.53	55.30	-34.96	-44.77
0.25	0.60	26.25	61.91	12.39	51.91	-35.66	-39.52
0.51	0.11	25.65	56.00	12.82	46.00	-30.35	-33.18
0.86	0.11	21.59	56.00	7.47	46.00	-34.41	-38.53
1.37	0.12	37.70	56.00	23.65	46.00	-18.30	-22.35
1.67	0.13	24.33	56.00	12.65	46.00	-31.67	-33.35

Remark:

- 1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) = Level (dBuV) Limit (dBuV)







Phase : Neutral EUT : TTD-47T

Test Condition : Normal operating mode

Frequency	Corr. Factor	Level Qp	Limit Qp	Level AV	Limit Av		rgin dB)
(MHz)	(dB)	(ďBuV)	(ďBu∀)	(dBuV)	(dBuV)	Qp	Av
0.17	0.11	26.88	64.81	8.53	54.81	-37.94	-46.29
0.25	0.11	23.37	61.78	8.11	51.78	-38.41	-43.67
0.32	0.11	21.22	59.62	5.25	49.62	-38.40	-44.37
0.50	0.11	22.49	56.05	5.87	46.05	-33.57	-40.19
1.37	0.12	31.91	56.00	13.97	46.00	-24.09	-32.03
1.64	0.13	23.61	56.00	10.24	46.00	-32.39	-35.76

Remark:

1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = Level (dBuV) – Limit (dBuV)

