

FCC Radio Test Report

FCC ID: V7T4G630

This report concerns (check o	one): Original Gra	nt Class II Change
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Project No. : 1403C127A

Equipment: 3G/4G Wireless N300 Router

Model Name : 4G630

Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan
Road, Nanshan District, Shenzhen, China. 518052

Date of Receipt : Mar. 03, 2016

Date of Test : Mar. 03, 2016 ~ Mar. 15, 2016

Issued Date : Mar. 15, 2016 Tested by : BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FCCP-1-1403C127A	Original Report.	Apr. 04, 2014
BTL-FCCP-1-1403C127A	Compared with the previous report (NEI-FCCP-1-1403C127), added an adapter (HEWEISHUN / BN036-A12012U), the conducted emission and radiated emission below 1 GHz has been re-evaluated and recorded in the test report, the original adapters' test results please refer to original report. This test report only in valid when be combined with previous test report(s).	Mar. 15, 2016

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1. CERTIFICATION

Equipment : 3G/4G Wireless N300 Router

Brand Name: Tenda Model Name: 4G630

Applicant SHENZHEN TENDA TECHNOLOGY CO.,LTD

Date of Test : Mar. 03, 2016 ~ Mar. 15, 2016 Test Item : ENGINEERING SAMPLE

Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.10-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1403C127A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C						
Standard(s) Section FCC	Test Item	Judgment	Remark			
15.207	Conducted Emission	PASS				
15.247(d)	Antenna conducted Spurious Emission	PASS				
15.247(a)(2)	6dB Bandwidth	PASS				
15.247(b)(3)	Peak Output Power	PASS				
15.247(e)	Power Spectral Density	PASS				
15.203	Antenna Requirement	PASS				
15.209/15.205	Transmitter Radiated Emissions	PASS				

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r01 (Measurement Guidelines of DTS)

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2,providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C02	CISPR	150 KHz ~ 30MHz	1.94

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Ι	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03		200MHz ~ 1,000MHz	Ι	3.94	
		1GHz~18GHz	V	3.12	
				1GHz~18GHz	Ι
		18GHz~40GHz	V	4.15	
	18GHz~40GHz	Н	4.14		

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	3G/4G Wireless N300 Router		
Brand Name	Tenda		
Model Name	4G630		
Model Difference	N/A		
	Operation Frequency	2412~2462 MHz	
Product Description	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM	
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps	
Power Source	DC Voltage supplied from adapter. #1 Brand/Model: HEWEISHUN / TEA12U-12100 #2 Brand/Model: HEWEISHUN / BN036-A12012U		
Power Rating	#1 I/P:100-240V~50/60Hz 0.3A O/P: 12V/1A #2 I/P:100-240V~50/60Hz 0.4A O/P: 12V/1.0A		

Note

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2. Channel List:

_	marrier List.							
	CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 for 802.11n(40MHz)							
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
	01	2412	04	2427	07	2442	10	2457
	02	2417	05	2432	80	2447	11	2462
	03	2422	06	2437	09	2452		

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Length
1	Tenda	Q5138	Dipole	N/A	5	80mm
2	Tenda	Q5142	Dipole	N/A	5	165mm

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R).

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4.

Operating Mode TX Mode	1TX	2TX
802.11b	V (ANT 1 or ANT 2)	-
802.11g	V (ANT 1 or ANT 2)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX MODE

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test		
Final Test Mode	Description	
Mode 5	TX MODE	

For Radiated Test				
Final Test Mode	Description			
Mode 1	TX B MODE CHANNEL 01/06/11			

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)

802.11g mode: OFDM (6Mbps)

802.11n HT20 mode : BPSK (13Mbps) 802.11n HT40 mode : BPSK (27Mbps)

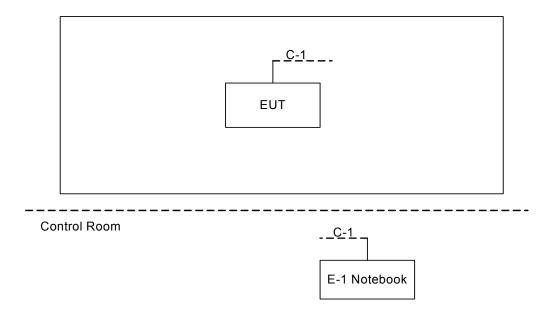
For radiated emission tests, the highest output powers were set for final test.

(3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
E-1	Notebook	DELL	HP NB 331	DOC	N/A

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10m	RJ45 Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Fraguency (MHz)	Class A	(dBuV)	Class B	Standard	
Frequency (MHz)	Quasi-peak	Average	Quasi-pe k	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

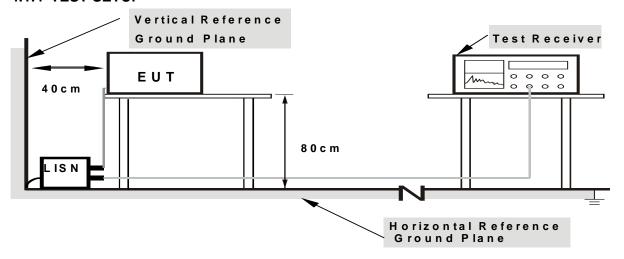
4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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4.1.4 TEST SETUP



Note: 1. Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 18°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

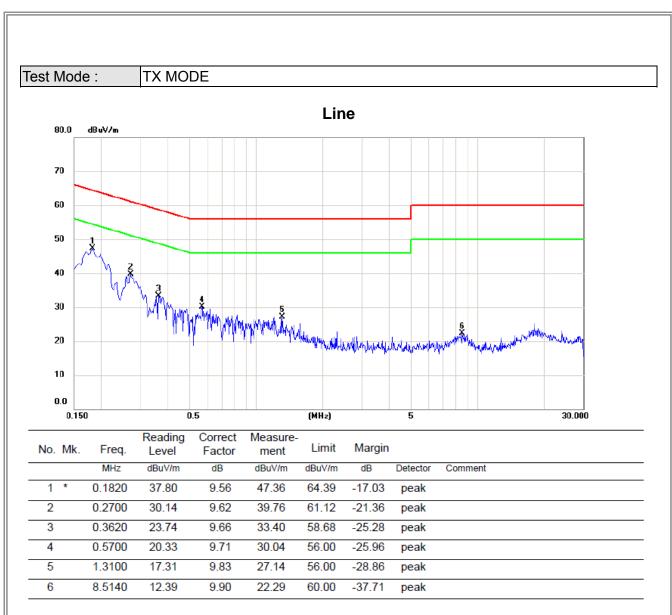
4.1.7 TEST RESULTS

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.

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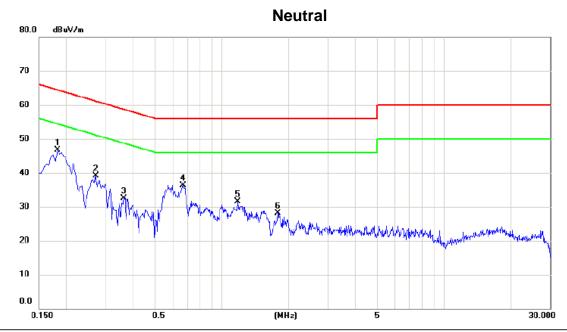




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No	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.1820	37.25	9.49	46.74	64.39	-17.65	peak	
2		0.2700	29.50	9.51	39.01	61.12	-22.11	peak	
3		0.3620	23.01	9.54	32.55	58.68	-26.13	peak	
4		0.6660	26.84	9.54	36.38	56.00	-19.62	peak	
5		1.1780	21.90	9.62	31.52	56.00	-24.48	peak	
6		1.7780	18.45	9.70	28.15	56.00	-27.85	peak	

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz-1000MHz)

20dB 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.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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
960~1000	500	3

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	AND I / AND I for Dook A MUI / ADD I for Average	
(Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average	

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

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4.2.2 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- d. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

122	DEVIATION	FROM TEST	CLVNDVBD
7.2.3	DEVIALION		JIANDAND

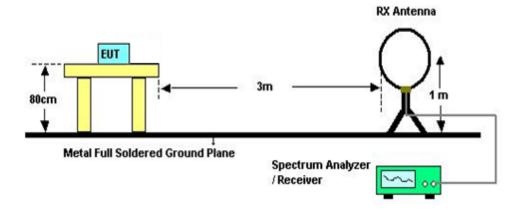
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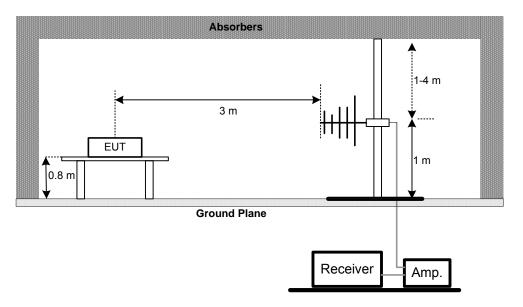


4.2.4 TEST SETUP

(A) For radiated emissions below 30MHz



(B) Radiated Emission Test Set-Up Frequency Below 1 GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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4.2.7 TEST RESULTS (9K~ 30MHZ)

Test Mode: TX Mode 2412MHz

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0113	0°	11.72	24.85	36.57	126.54	-89.97	AVG
0.0113	0°	13.91	24.85	38.76	146.54	-107.78	PEAK
0.0241	0°	6.19	24.04	30.23	119.96	-89.73	AVG
0.0241	0°	8.23	24.04	32.27	139.96	-107.69	PEAK
0.0363	0°	3.71	23.27	26.98	116.41	-89.43	AVG
0.0363	0°	5.92	23.27	29.19	136.41	-107.22	PEAK
0.0518	0°	1.34	22.36	23.70	113.32	-89.61	AVG
0.0518	0°	2.29	22.36	24.65	133.32	-108.66	PEAK
0.5033	0°	19.54	19.81	39.35	73.57	-34.22	QP
1.9513	0°	23.34	19.50	42.84	69.54	-26.70	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0152	90°	13.72	24.30	38.02	123.97	-85.95	AVG
0.0152	90°	14.38	24.30	38.68	143.97	-105.29	PEAK
0.0237	90°	7.71	24.07	31.78	120.11	-88.33	AVG
0.0237	90°	8.52	24.07	32.59	140.11	-107.52	PEAK
0.0462	90°	4.64	22.64	27.28	114.31	-87.03	AVG
0.0462	90°	6.83	22.64	29.47	134.31	-104.84	PEAK
0.0552	90°	1.49	22.30	23.79	112.77	-88.98	AVG
0.0552	90°	2.56	22.30	24.86	132.77	-107.91	PEAK
0.6224	90°	22.21	20.19	42.40	71.72	-29.32	QP
2.0578	90°	24.52	19.47	43.99	69.54	-25.55	QP

Remark:

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

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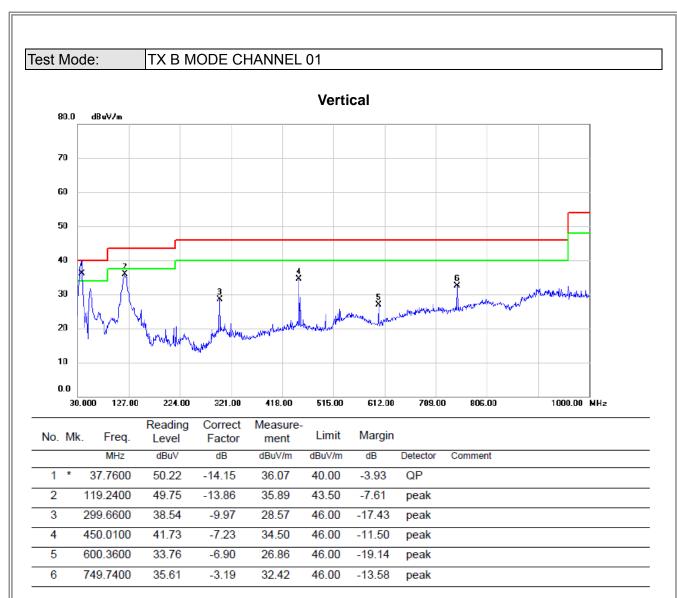
4.2.8 TEST RESULTS (BETWEEN 30-1000 MHZ)

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

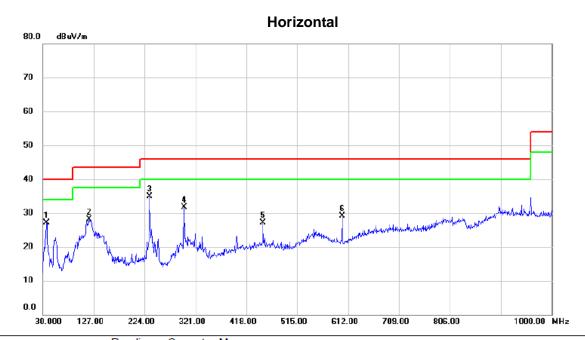
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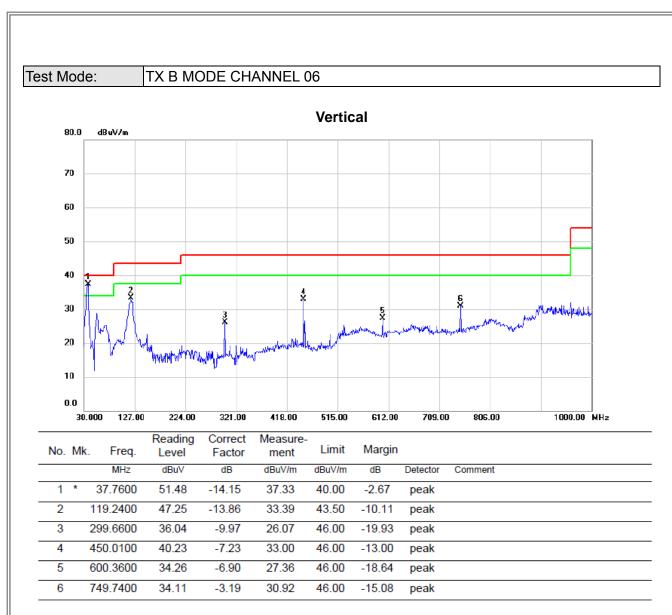




No	. M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		3	86.7900	41.17	-14.16	27.01	40.00	-12.99	peak	
2		11	8.2700	42.08	-14.01	28.07	43.50	-15.43	peak	
3	*	23	33.7000	48.84	-13.84	35.00	46.00	-11.00	peak	
4		29	9.6600	41.73	-9.97	31.76	46.00	-14.24	peak	
5		45	0.0100	34.33	-7.23	27.10	46.00	-18.90	peak	
6		60	0.3600	35.97	-6.90	29.07	46.00	-16.93	peak	

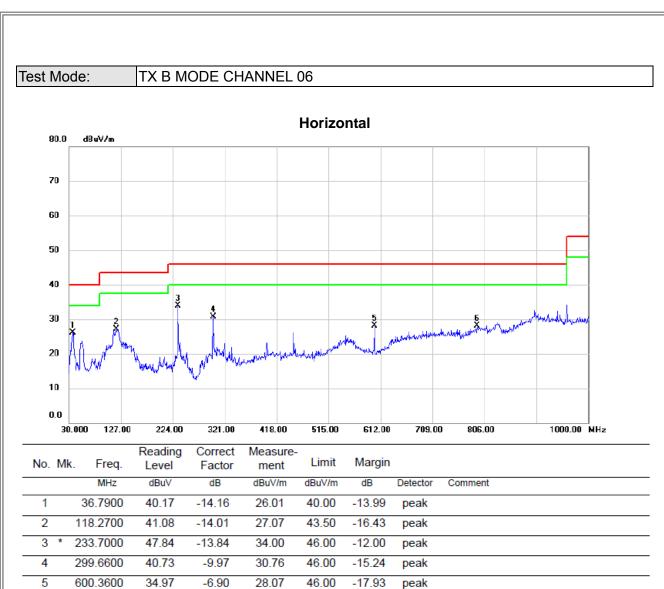
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6

-0.89

28.02

46.00

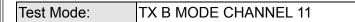
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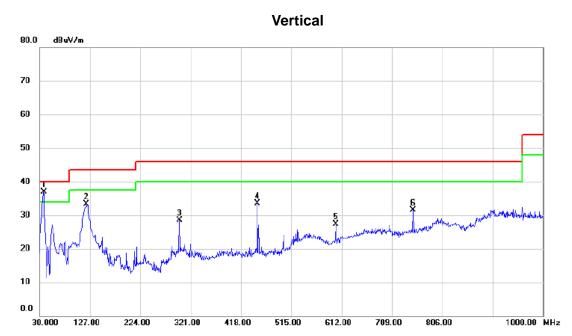
peak

28.91

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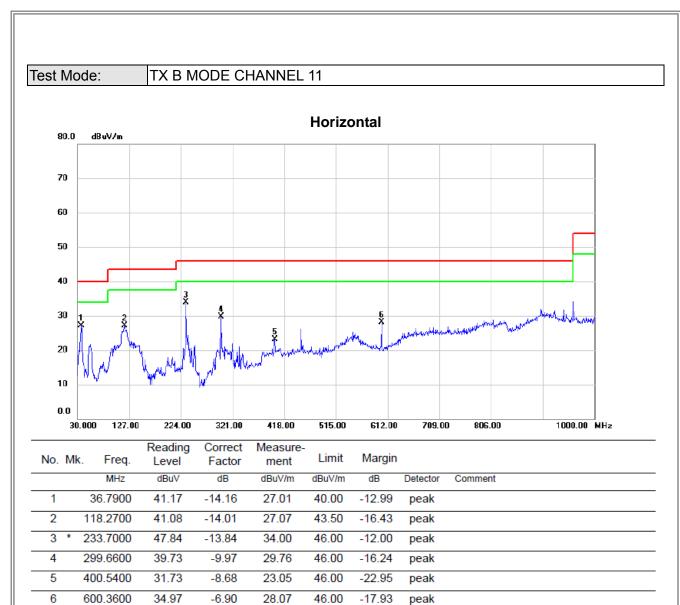




No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	37.7600	50.98	-14.15	36.83	40.00	-3.17	peak	
2		119.2400	47.25	-13.86	33.39	43.50	-10.11	peak	
3		299.6600	38.54	-9.97	28.57	46.00	-17.43	peak	
4		450.0100	40.73	-7.23	33.50	46.00	-12.50	peak	
5		600.3600	34.26	-6.90	27.36	46.00	-18.64	peak	
6		749.7400	34.61	-3.19	31.42	46.00	-14.58	peak	

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5. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	LISN	EMCO	3816/2	0052765	Mar. 28, 2016				
2	LISN	R&S	ENV216	101447	Mar. 28, 2016				
3	Test Cable	emci	RG223(9KHz -30MHz)	C_17	Mar. 13, 2016				
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 28, 2016				
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 28, 2016				
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A				

	Radiated Emission Measurement								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016				
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016				
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016				
4	Test Cable	emci	LMR-400(30M Hz-1GHz)	C-01	Jun. 28, 2016				
5	Controller	СТ	SC100	N/A	N/A				
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-0 1	N/A	N/A				

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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6. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos 9K~30MHz



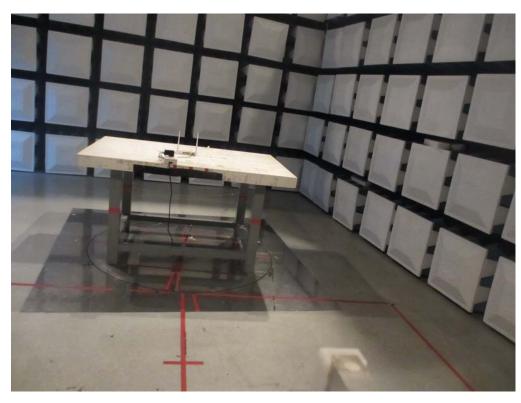


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Radiated Measurement Photos 30~1000MHz





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