

FCC Radio Test Report

FCC ID: V7T4G600

This report concerns (check one): Original Grant Class II Change

Issued Date : Mar. 28, 2014 Project No. : 1403C126

Equipment: 3G/4G Wireless N150 Router

Model Name: 4G600

Applicant: SHENZHEN TENDA TECHNOLOGY

CO.,LTD

Address: 6-8 Floor, Tower E3, No. 1001,

Zhongshanyuan Road, Nanshan District,

Shenzhen, China. 518052

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Mar. 17, 2014

Date of Test: Mar. 17, 2014 ~ Mar. 27, 2014

Testing Engineer : Yourd Man

(David Mao)

Technical Manager

(Leo Hung)

Authorized Signatory:

(Steven Lu)

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL: 0769-8318-3000 FAX: 0769-8319-6000



Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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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-1-1403C126	Original Issue.	Mar. 28, 2014

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1. CERTIFICATION

Equipment : 3G/4G Wireless N150 Router

Brand Name: Tenda Model Name: 4G600

Applicant SHENZHEN TENDA TECHNOLOGY CO.,LTD

Date of Test : Mar. 17, 2014 ~ Mar. 27, 2014 Test Item : ENGINEERING SAMPLE

Standard(s) : FCC Part15, Subpart C(15.247) / ANSI C63.4-2009

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1403C126) 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 Neutron'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 reported uncertainty of measurement y \pm U, where expended 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)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
	CISPR	30MHz ~ 200MHz	Н	3.60	
DG-CB03		200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CISER	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	3G/4G Wireless N150 Router			
Brand Name	Tenda			
Model Name	4G600	4G600		
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 150 Mbps		
	Output Power (Max.)	802.11b: 14.26dBm 802.11g: 19.07dBm 802.11n(20MHz): 18.51 dBm 802.11n(40MHz): 19.22 dBm		
Power Source	DC Voltage supplied from AC/DC adapter. Brand/Model:HEWEISHUN/TEA09U-09100			
Power Rating	I/P:100-240V~50/60Hz 0.3A O/P:9V/1.0A			
Connecting I/O Port(s)	Please refer to the User's Manual			

Note:

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

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2. CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz) CH 03 – CH 09 for 802.11n(40MHz)

	Channel List						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Tenda	N/A	Dipole	N/A	5	TX/RX

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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	
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	

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 (6.5Mbps) 802.11n HT40 mode : BPSK (6.5Mbps)

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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3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

Test software version	GUI	_Demo_01.05.29_8	3192
Frequency	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11b DSSS	0	1	3
IEEE 802.11g OFDM	11	12	14

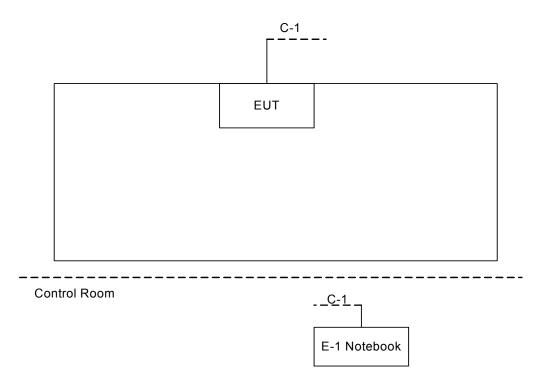
Test software version	GUI_Demo_01.05.29_8192			
Frequency (MHz)	2412 MHz 2437 MHz 2462 MHz			
IEEE 802.11n (20MHz)	0E	10	12	
Frequency (MHz)	2422 MHz	2437 MHz	2452 MHz	
IEEE 802.11n (40MHz)	10	11	12	

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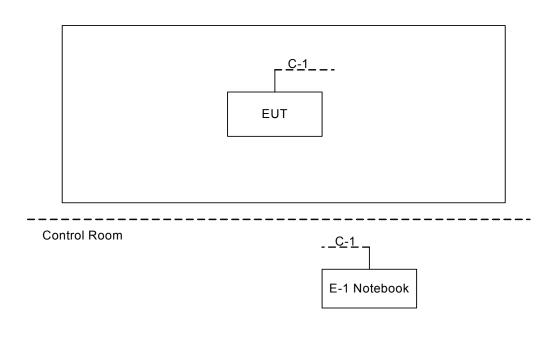


3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted TX Mode:



Radiated TX Mode:



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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.	Note
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)

Frequency (MHz)	Class A	(dBuV)	Class B	Standard	
Frequency (Miriz)	Quasi-peak	Average	Quasi-peak	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.

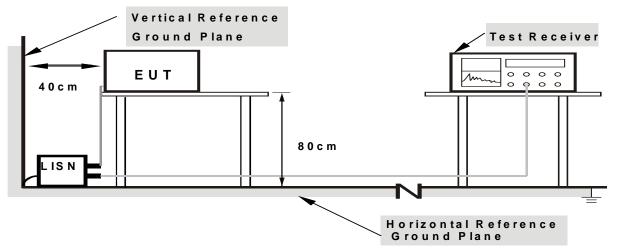
4.1.3 DEVIATION FROM TEST STANDARD

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

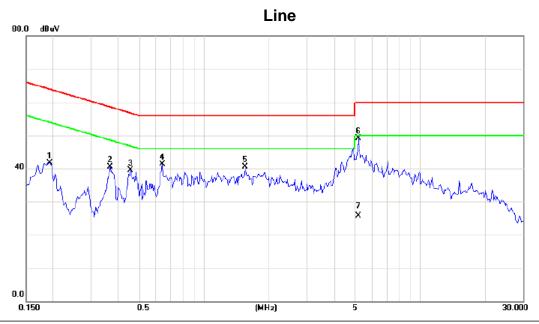
Remark:

- (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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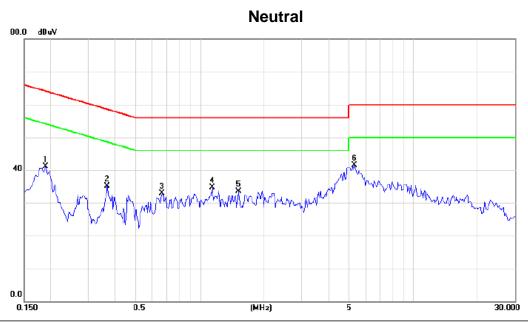


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1930	32.13	9.65	41.78	63.91	-22.13	peak	
2	0.3688	30.89	9.68	40.57	58.53	-17.96	peak	
3	0.4586	29.76	9.70	39.46	56.72	-17.26	peak	
4	0.6422	31.51	9.72	41.23	56.00	-14.77	peak	
5	1.5444	30.67	9.79	40.46	56.00	-15.54	peak	
6 *	5.1913	39.13	9.92	49.05	60.00	-10.95	peak	
7	5.1913	15.80	9.92	25.72	50.00	-24.28	AVG	

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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1891	31.32	9.71	41.03	64.08	-23.05	peak	
2	0.3688	25.42	9.73	35.15	58.53	-23.38	peak	
3	0.6617	23.18	9.75	32.93	56.00	-23.07	peak	
4	1.1461	24.93	9.78	34.71	56.00	-21.29	peak	
5	1.5133	23.67	9.82	33.49	56.00	-22.51	peak	
6 *	5.2930	31.59	9.96	41.55	60.00	-18.45	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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Fraguanay (MHz)	(dBuV/m) (at 3 meters)		
Frequency (MHz)	PEAK	AVERAGE	
Above 1000	74	54	

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 MI I AND 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 EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. 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.
- d. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3	DEVIAI	ION FRO)W E2	STANDARD

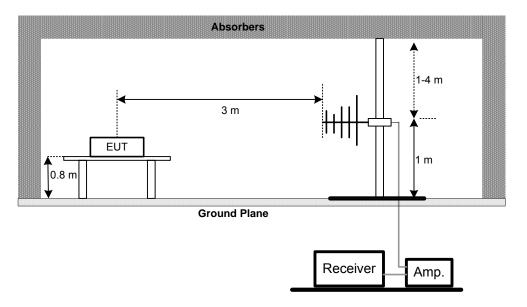
No deviation

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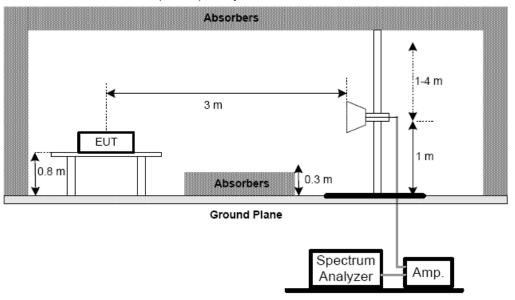


4.2.4 TEST SETUP

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



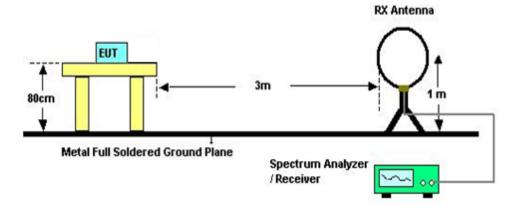
(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



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(C) For radiated emissions below 30MHz



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)

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
0.0096	0°	68.74	24.30	93.04	128.00	-34.96	AV
0.0096	0°	74.35	24.30	98.65	148.00	-49.35	PK
0.0138	0°	71.38	24.30	95.68	124.81	-29.13	AV
0.0138	0°	80.26	24.30	104.56	144.81	-40.25	PK
0.0275	0°	54.16	23.83	77.99	118.82	-40.83	AV
0.0275	0°	60.72	23.83	84.55	138.82	-54.27	PK
0.0338	0°	60.54	23.43	83.97	117.03	-33.06	AV
0.0338	0°	65.78	23.43	89.21	137.03	-47.82	PK
0.5680	0°	19.32	20.02	39.34	72.52	-33.18	QP
1.7536	0°	18.82	19.52	38.34	69.54	-31.20	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.0094	90°	74.35	24.30	98.65	128.12	-29.47	AVG
0.0094	90°	82.76	24.30	107.06	148.12	-41.06	PK
0.0238	90°	54.18	24.06	78.24	120.07	-41.83	AVG
0.0238	90°	59.65	24.06	83.71	140.07	-56.36	PK
0.0342	90°	54.75	23.40	78.15	116.92	-38.77	AVG
0.0342	90°	58.85	23.40	82.25	136.92	-54.67	PK
0.0419	90°	57.45	22.91	80.36	115.16	-34.80	AVG
0.0419	90°	66.75	22.91	89.66	135.16	-45.50	PK
0.4962	90°	18.75	19.81	38.56	73.69	-35.13	QP
1.7246	90°	18.63	19.53	38.16	69.54	-31.38	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)

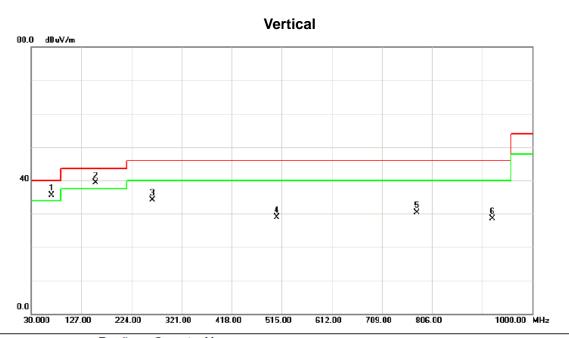
Remark:

- (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 <code>『Note』</code>. 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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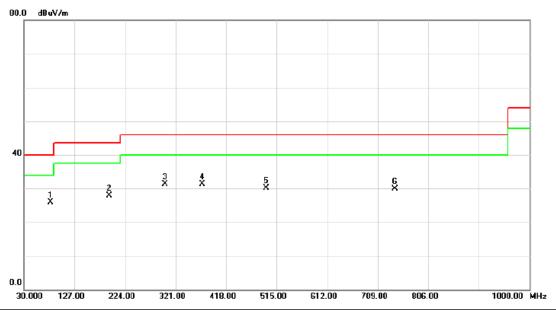
	No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
_			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	İ	68.8000	51.61	-16.14	35.47	40.00	-4.53	peak	
_	2	*	155.1300	52.94	-13.69	39.25	43.50	-4.25	peak	
_	3		264.7400	48.35	-14.34	34.01	46.00	-11.99	peak	
	4		505.3000	38.92	-10.06	28.86	46.00	-17.14	peak	
_	5		776.9000	34.15	-3.94	30.21	46.00	-15.79	peak	
_	6		922.4000	29.43	-0.94	28.49	46.00	-17.51	peak	
_										

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Test Mode: TX B MODE CHANNEL 01

Horizontal



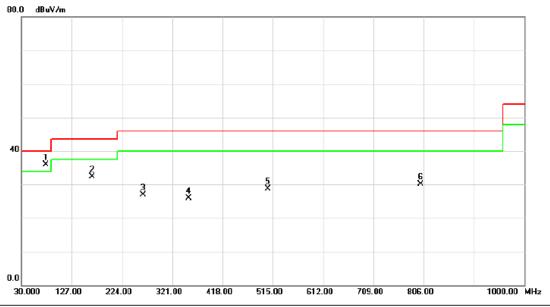
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	80.4400	43.47	-17.55	25.92	40.00	-14.08	peak	
2	,	193.9300	42.56	-14.66	27.90	43.50	-15.60	peak	
3	;	300.6300	42.52	-11.25	31.27	46.00	-14.73	peak	
4	,	371.4400	42.14	-10.78	31.36	46.00	-14.64	peak	
5	4	494.6300	40.22	-10.18	30.04	46.00	-15.96	peak	
6	1	741.9800	34.83	-4.89	29.94	46.00	-16.06	peak	

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Test Mode: TX B MODE CHANNEL 06





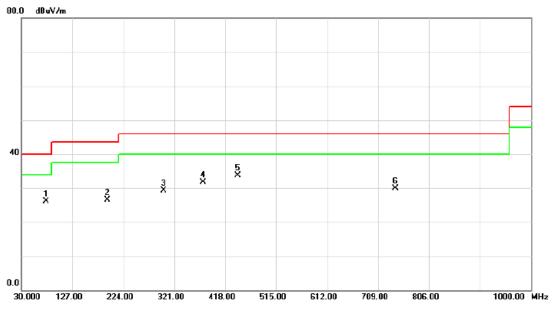
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	77.5300	53.06	-17.13	35.93	40.00	-4.07	peak	
2	,	166.7700	45.30	-13.02	32.28	43.50	-11.22	peak	
3	2	264.7400	41.25	-14.34	26.91	46.00	-19.09	peak	
4		353.0100	37.28	-11.37	25.91	46.00	-20.09	peak	
5	į	505.3000	38.75	-10.06	28.69	46.00	-17.31	peak	
6	8	800.1800	33.16	-3.11	30.05	46.00	-15.95	peak	

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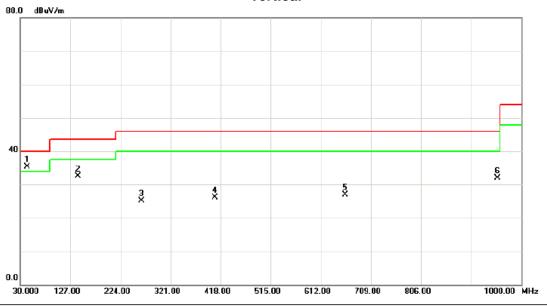
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
-			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
_	1		77.5300	43.27	-17.13	26.14	40.00	-13.86	peak	
-	2		193.9300	41.17	-14.66	26.51	43.50	-16.99	peak	
_	3		300.6300	40.52	-11.25	29.27	46.00	-16.73	peak	
_	4		376.2900	42.40	-10.63	31.77	46.00	-14.23	peak	
_	5	*	441.2800	42.82	-9.08	33.74	46.00	-12.26	peak	
-	6		741.9800	34.75	-4.89	29.86	46.00	-16.14	peak	

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Test Mode: TX B MODE CHANNEL 11

Vertical



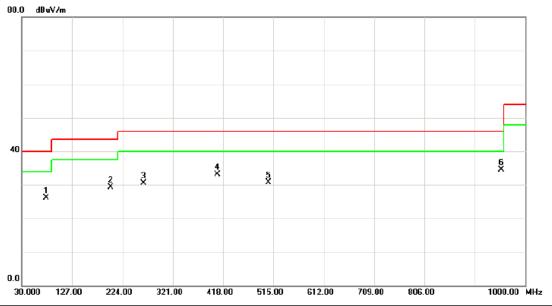
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	43.5800	49.44	-14.22	35.22	40.00	-4.78	peak	
	2		141.5500	46.29	-13.78	32.51	43.50	-10.99	peak	
Ī	3	:	264.7400	39.48	-14.34	25.14	46.00	-20.86	peak	
	4	-	406.3600	35.95	-9.75	26.20	46.00	-19.80	peak	
	5	(659.5300	32.35	-5.42	26.93	46.00	-19.07	peak	
	6	,	953.4400	32.30	-0.48	31.82	46.00	-14.18	peak	

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Test Mode: TX B MODE CHANNEL 11

Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		77.5300	43.20	-17.13	26.07	40.00	-13.93	peak	
2		200.7200	44.43	-15.21	29.22	43.50	-14.28	peak	
3		264.7400	44.88	-14.34	30.54	46.00	-15.46	peak	
4		406.3600	42.88	-9.75	33.13	46.00	-12.87	peak	
5		505.3000	40.69	-10.06	30.63	46.00	-15.37	peak	
6	*	953.4400	34.90	-0.48	34.42	46.00	-11.58	peak	

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4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Remark:

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency;"H" denotes spurious frequency;"E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) 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.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis: "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

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Test Mode: TX B MODE 2412MHz

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ad	ct.	Lir		
i ieq.	Ant.Foi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.28	14.16	34.09	57.37	48.25	74.00	54.00	X/E
2414.70	٧	65.91	63.51	34.16	100.07	97.67			X/F
4824.08	V	40.15	33.16	6.43	46.58	39.59	74.00	54.00	X/H

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
i ieq.	AHLFUI.	Peak	AV	Ant./Ci	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	24.02	13.92	34.09	58.11	48.01	74.00	54.00	X/E
2409.30	Н	60.69	58.58	34.14	94.83	92.72			X/F
4824.04	Н	39.37	33.43	6.43	45.80	39.86	74.00	54.00	X/H

Test Mode: TX B MODE 2437MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2438.80	V	68.61	66.36	34.23	102.84	100.59			X/F
4874.00	V	39.40	30.50	6.58	45.98	37.08	74.00	54.00	X/H

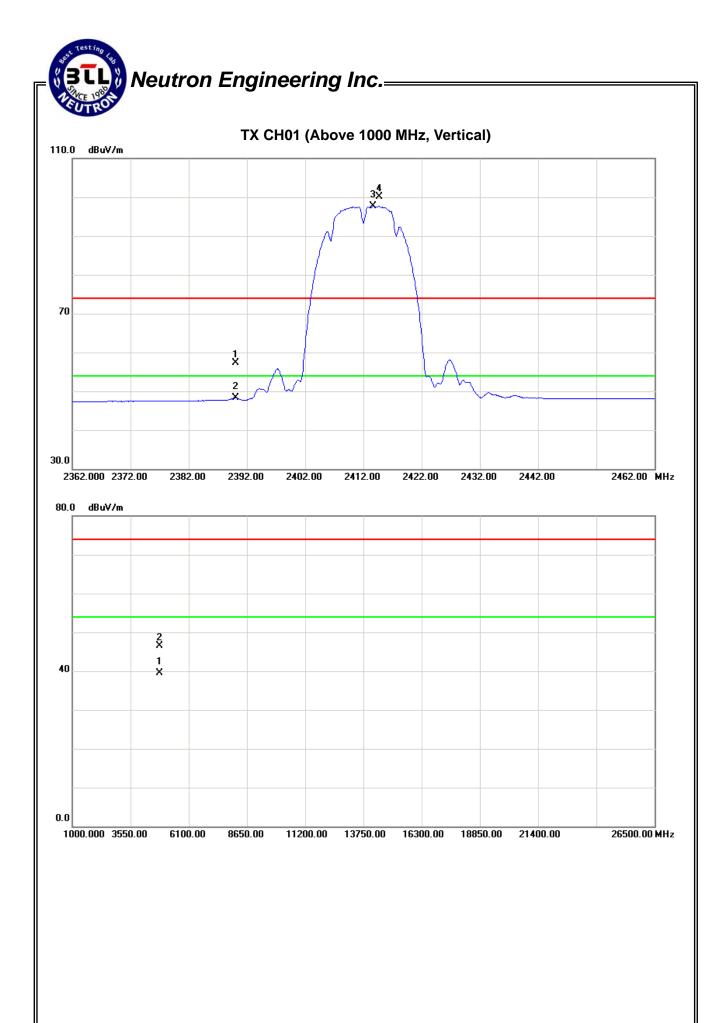
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV	KIII./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2436.20	Н	68.52	59.87	34.23	102.75	94.10			X/F
4874.00	Н	39.68	30.42	6.58	46.26	37.00	74.00	54.00	X/H

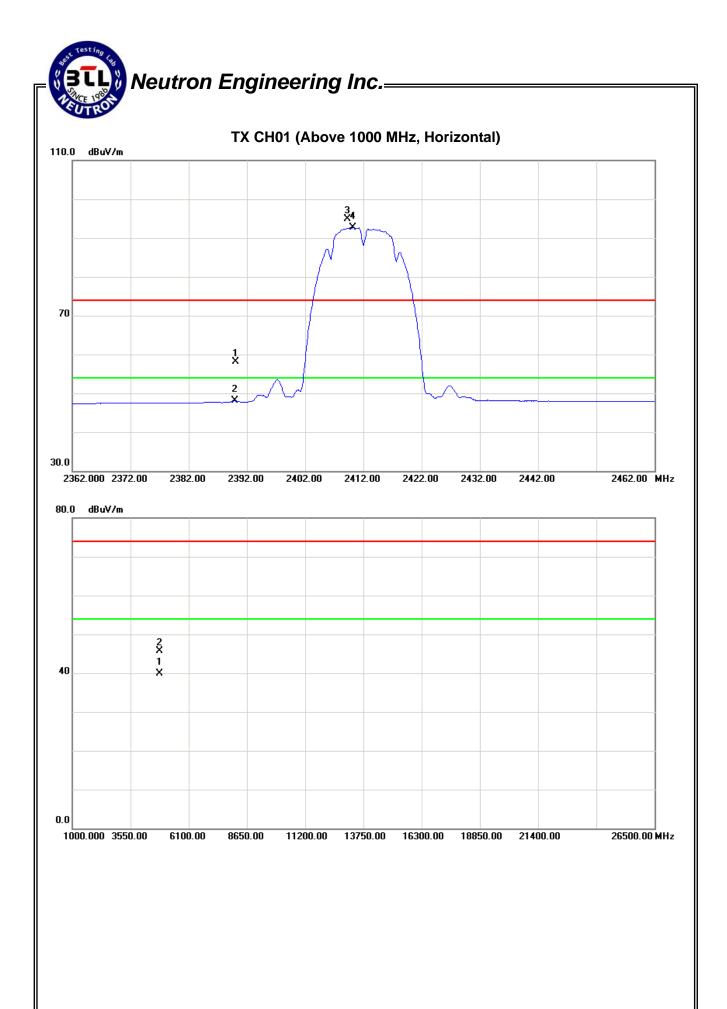
Test Mode: TX B MODE 2462MHz

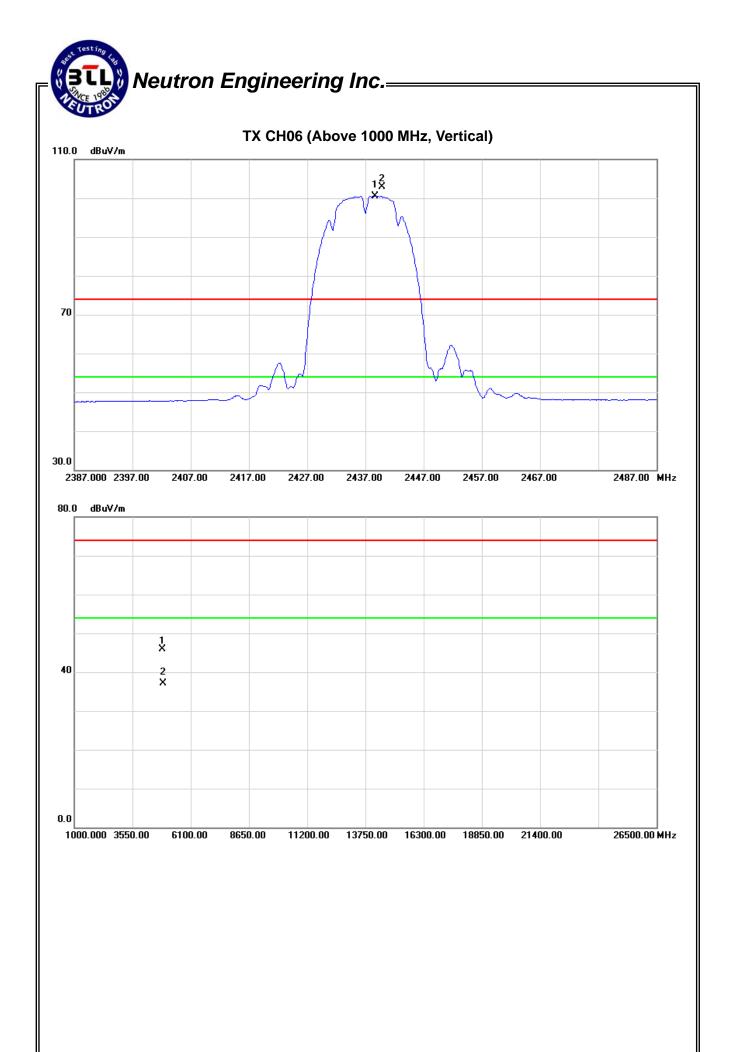
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV	Ant./O	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2463.70	V	71.15	66.29	34.31	105.46	100.60			X/F
2483.50	V	25.87	17.32	34.37	60.24	51.69	74.00	54.00	X/E
4924.00	V	38.73	30.38	6.72	45.45	37.10	74.00	54.00	X/H

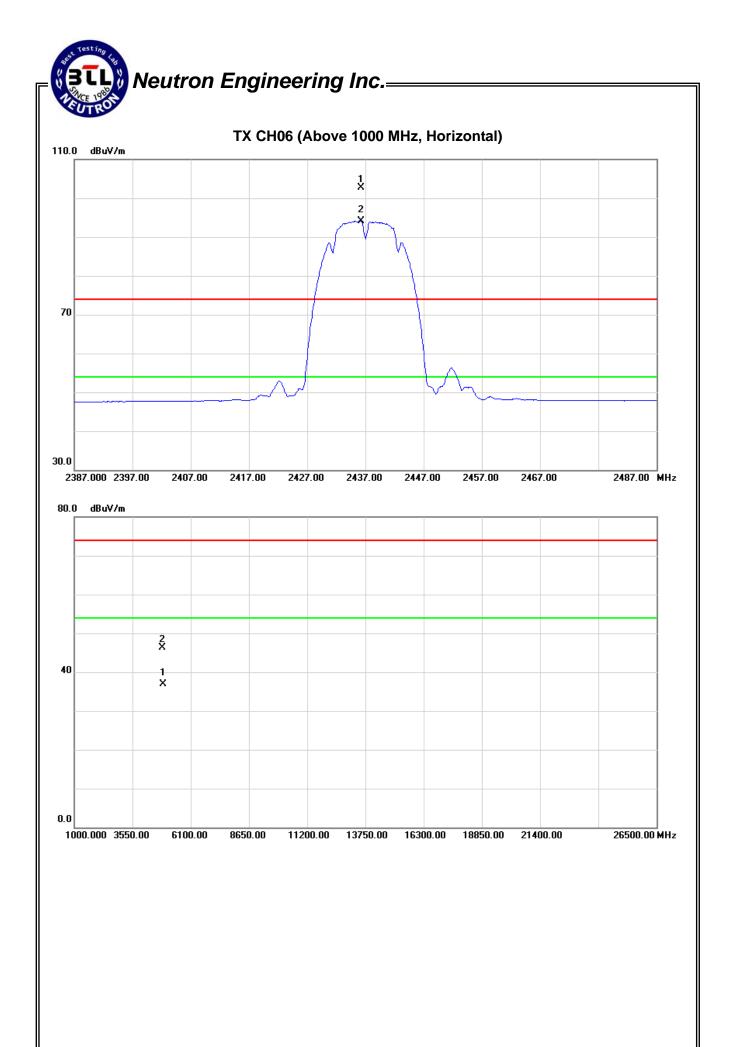
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV	KIII./GI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.80	Н	63.69	61.44	34.31	98.00	95.75			X/F
2483.50	Н	24.92	15.42	34.37	59.29	49.79	74.00	54.00	X/E
4923.68	Н	38.38	27.81	6.72	45.10	34.53	74.00	54.00	X/H

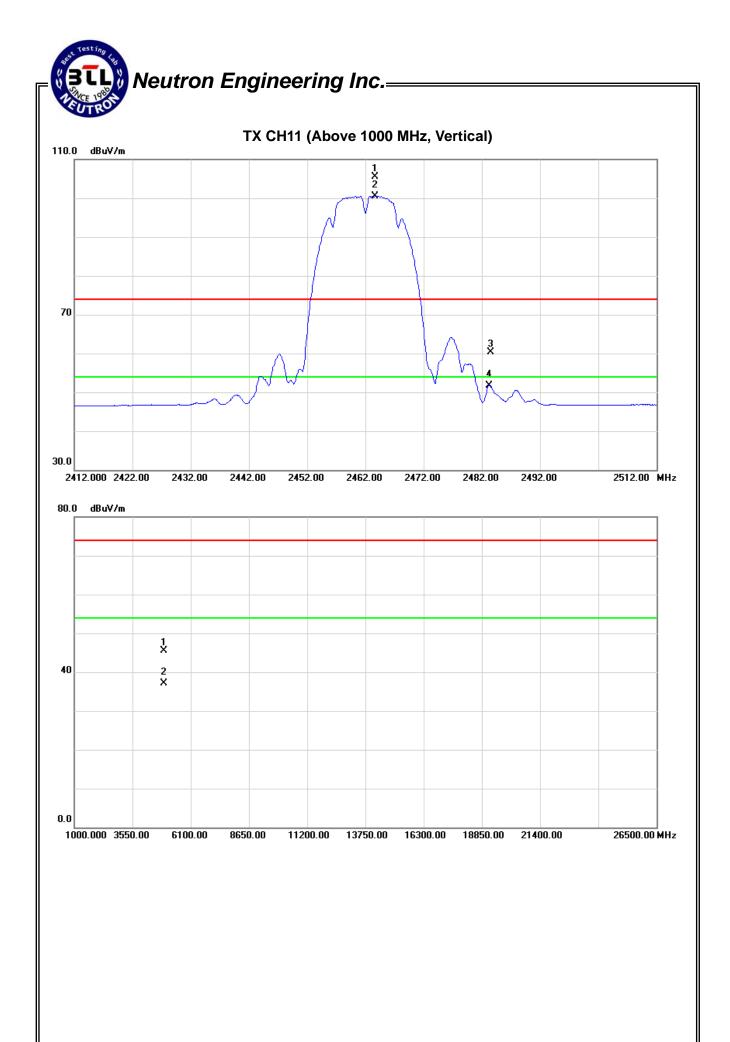
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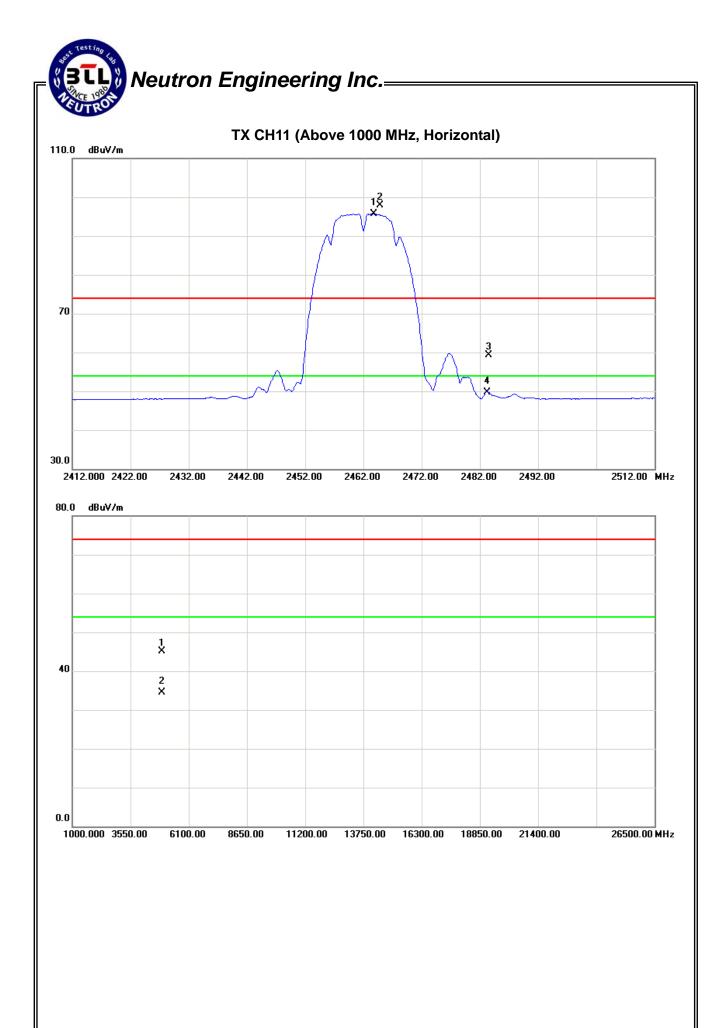














Test Mode :	TX G MODE 2412MHz

Freq.	Ant.Pol.	Rea	ding Ant./CF		Act.		Limit		
·	Ant.Foi.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	26.82	14.64	34.09	60.91	48.73	74.00	54.00	X/E
2417.10	٧	68.69	59.42	34.17	102.86	93.59			X/F
4823.70	V	37.27	27.45	6.43	43.70	33.88	74.00	54.00	X/H

Freq.	Ant.Pol.	Rea	Reading Ant./CF		Act.		Limit		
·		Peak	AV	Ant./Ci	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	23.98	14.27	34.09	58.07	48.36	74.00	54.00	X/E
2407.10	Н	64.31	54.07	34.14	98.45	88.21			X/F
4824.22	Н	37.53	27.48	6.43	43.96	33.91	74.00	54.00	X/H

Test Mode: TX G MODE 2437MHz

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		
rieq.	AIIL.FUI.	Peak	AV	Ant./CF	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2442.10	٧	71.74	62.44	34.25	105.99	96.69			X/F
4874.06	V	39.56	30.47	6.58	46.14	37.05	74.00	54.00	X/H

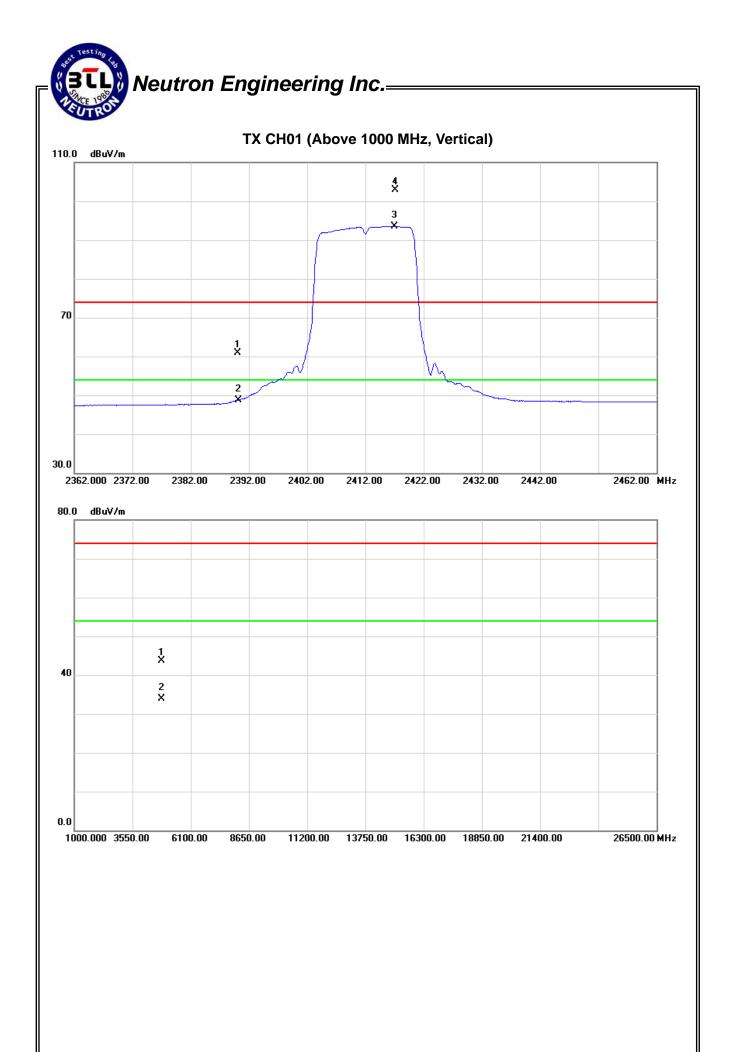
Erog	Ant.Pol.	Rea	ading Ant./CF		Ad	Act.		Limit		
Freq.	Ant.Foi.	Peak	AV	Ant./CF	Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2432.20	Н	65.73	55.64	34.22	99.95	89.86			X/F	
4874.06	Н	39.68	30.42	6.58	46.26	37.00	74.00	54.00	X/H	

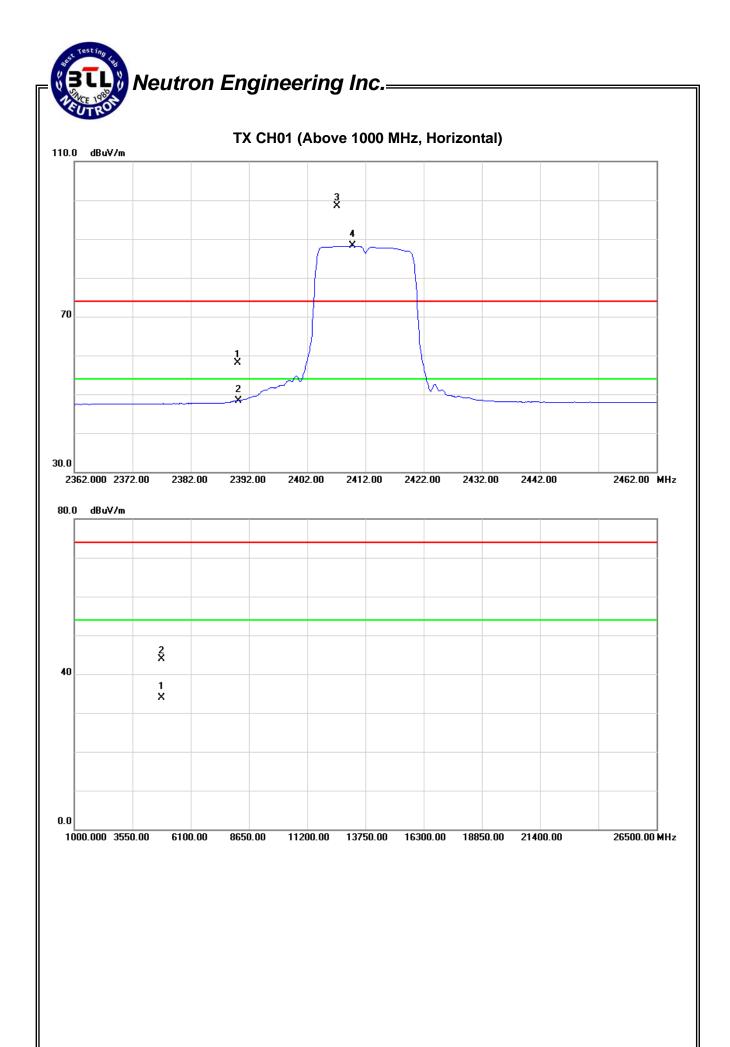
Test Mode: TX G MODE 2462MHz

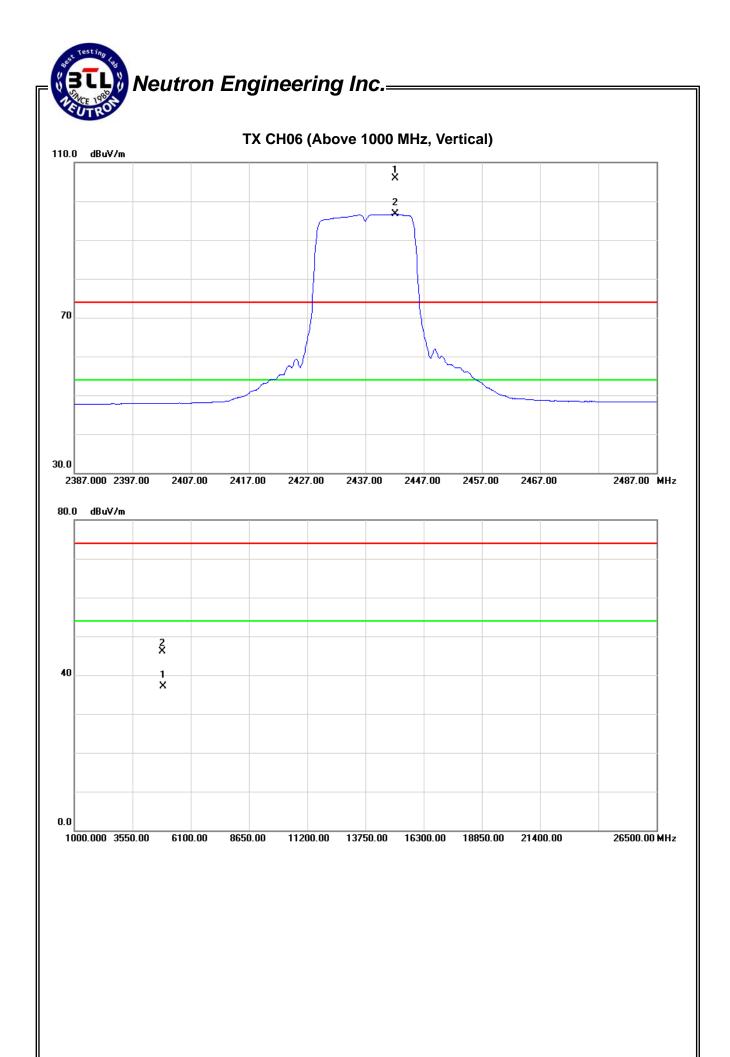
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
i ieq.	AIII.FUI.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2457.20	V	73.89	63.67	34.29	108.18	97.96			X/F
2483.50	V	32.83	18.02	34.37	67.20	52.39	74.00	54.00	X/E
4924.06	V	39.52	30.76	6.72	46.24	37.48	74.00	54.00	X/H

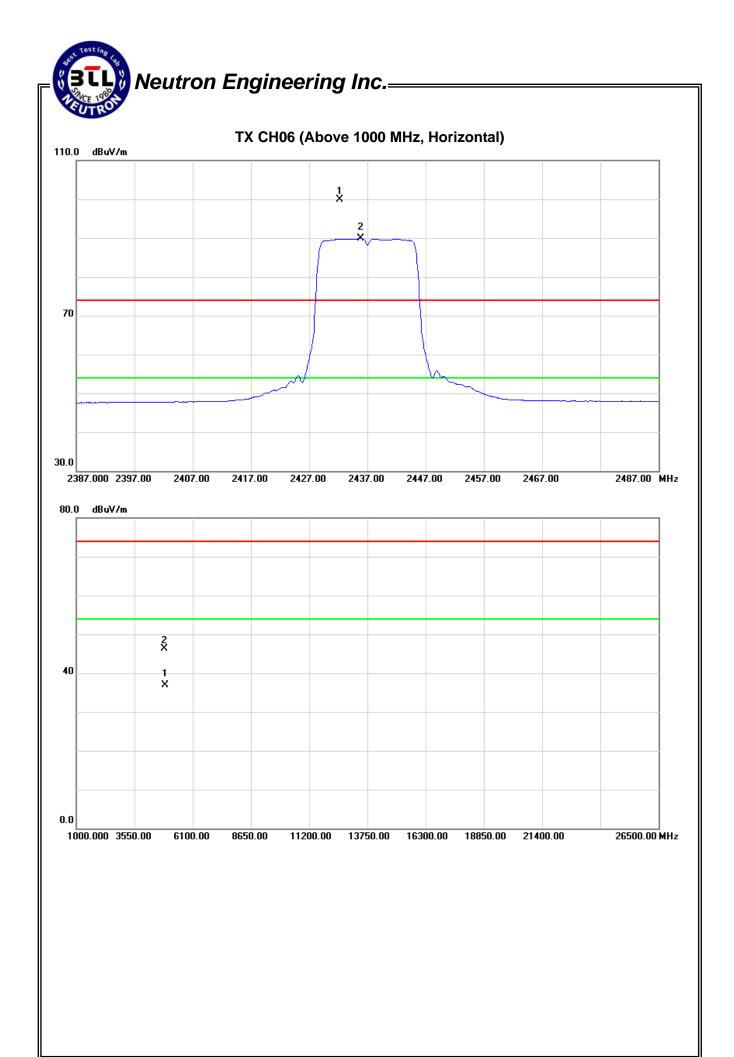
Freq.	Ant.Pol.	Rea	ading Ant./CF		Act.		Limit		
rieq.	AIIL.FUL	Peak	AV	Ant./O	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2457.20	Н	67.91	57.73	34.29	102.20	92.02			X/F
2483.50	Н	27.94	15.42	34.37	62.31	49.79	74.00	54.00	X/E
4924.09	Н	39.46	27.61	6.72	46.18	34.33	74.00	54.00	X/H

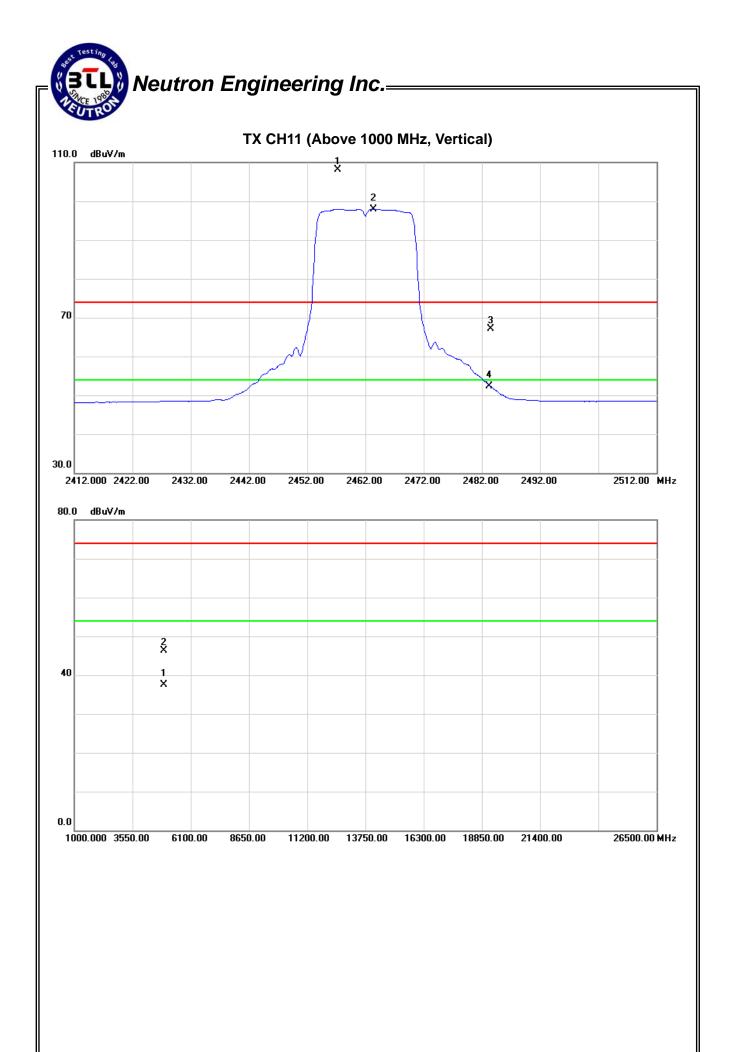
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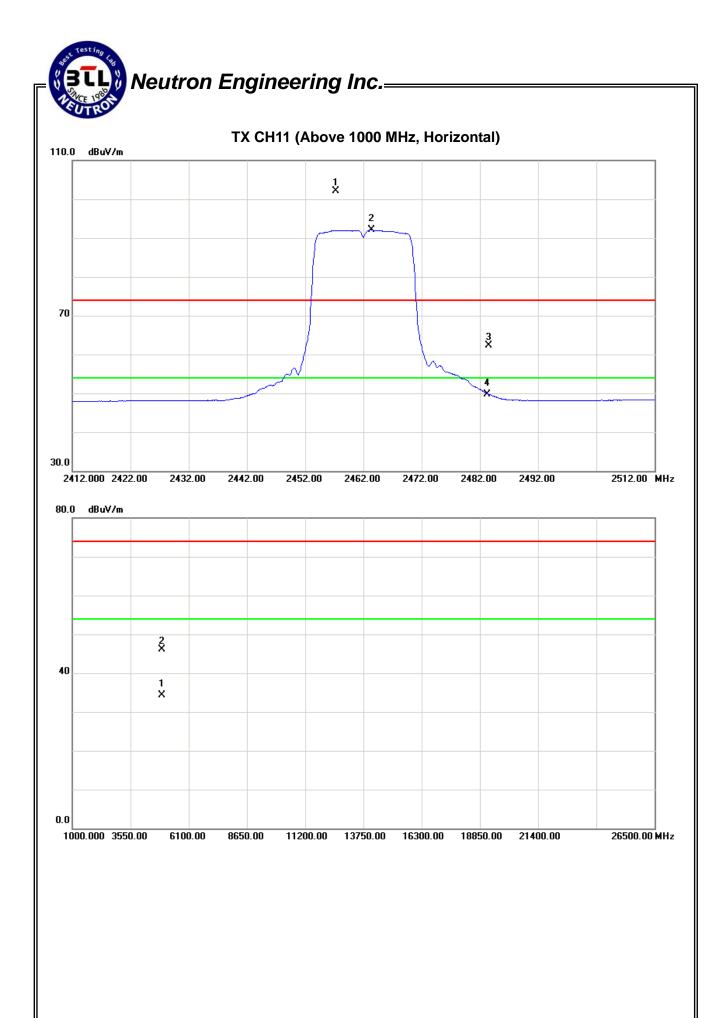














	Test Mode:	TX N-20M MODE 2412MH:	7
ı	TEST MIDGE.		_

Freq.	Ant.Pol.	Reading		Ant./CF Act.		ct.	t. Limit		
i ieq.		Peak	AV	Ant./Ci	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	28.83	14.75	34.09	62.92	48.84	74.00	54.00	X/E
2417.50	V	67.47	57.96	34.17	101.64	92.13			X/F
4823.78	V	38.63	27.52	6.43	45.06	33.95	74.00	54.00	X/H

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ad	Act.		nit	
1164.	Ant.For.	Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00) H	24.66	13.98	34.09	58.75	48.07	74.00	54.00	X/E
2417.50) H	61.33	51.89	37.17	98.50	89.06			X/F
4824.51	Н	38.47	27.74	6.43	44.90	34.17	74.00	54.00	X/H

Test Mode: TX N-20M MODE 2437MHz

Freq.	Ant.Pol.	Rea	ading Ant./CF		Ad	Act.		nit	
·	Ant.i Oi.	Peak	AV	Ant./Ci	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2439.00	V	69.90	61.02	34.24	104.14	95.26			X/F
4873.07	V	37.12	27.30	6.58	43.70	33.88	74.00	54.00	X/H

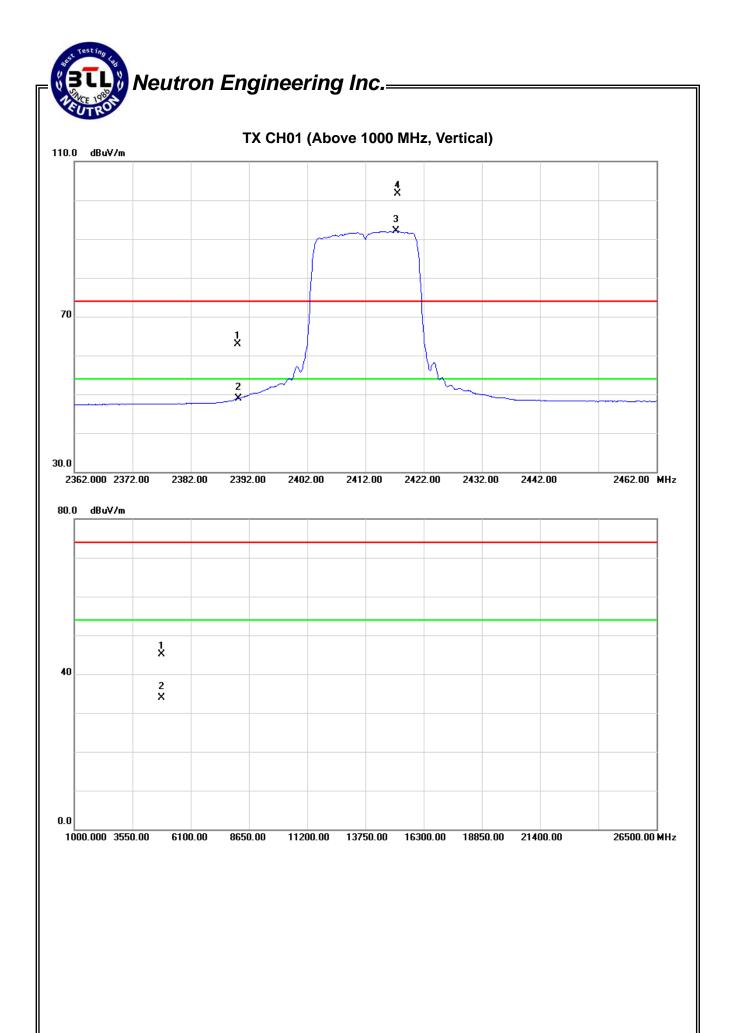
Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Lir		
'	Ant.i Oi.	Peak	AV	Ant./O	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2431.20	Н	63.23	54.45	34.21	97.44	88.66			X/F
4874.03	Н	39.18	28.73	6.58	45.76	35.31	74.00	54.00	X/H

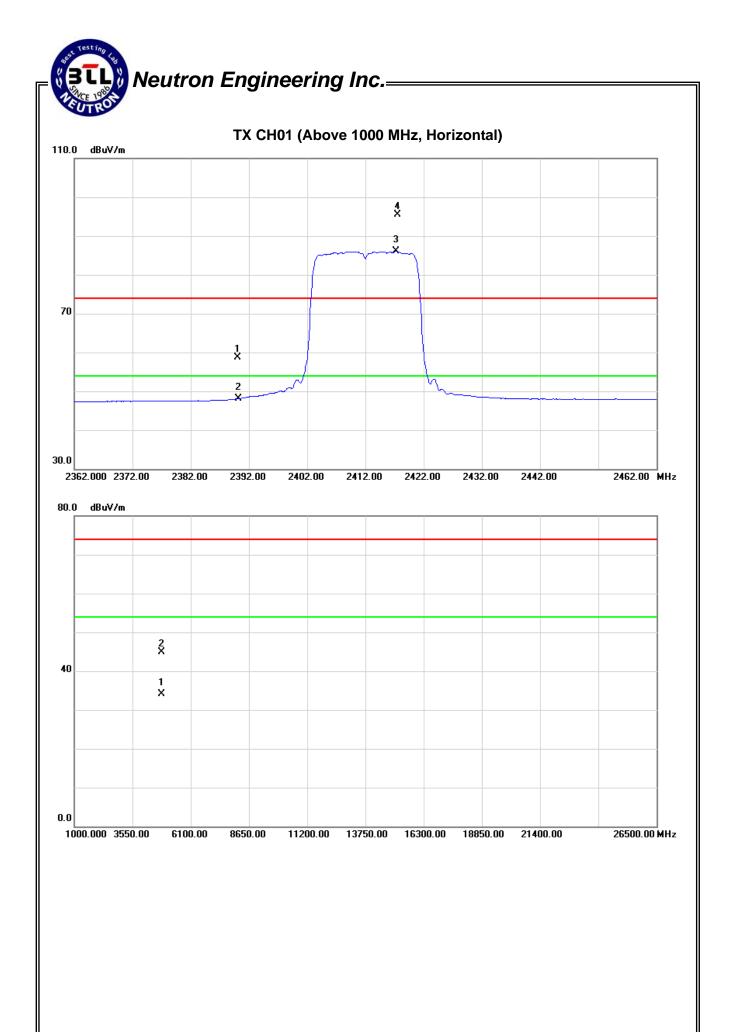
Test Mode: TX N-20M MODE 2462MHz

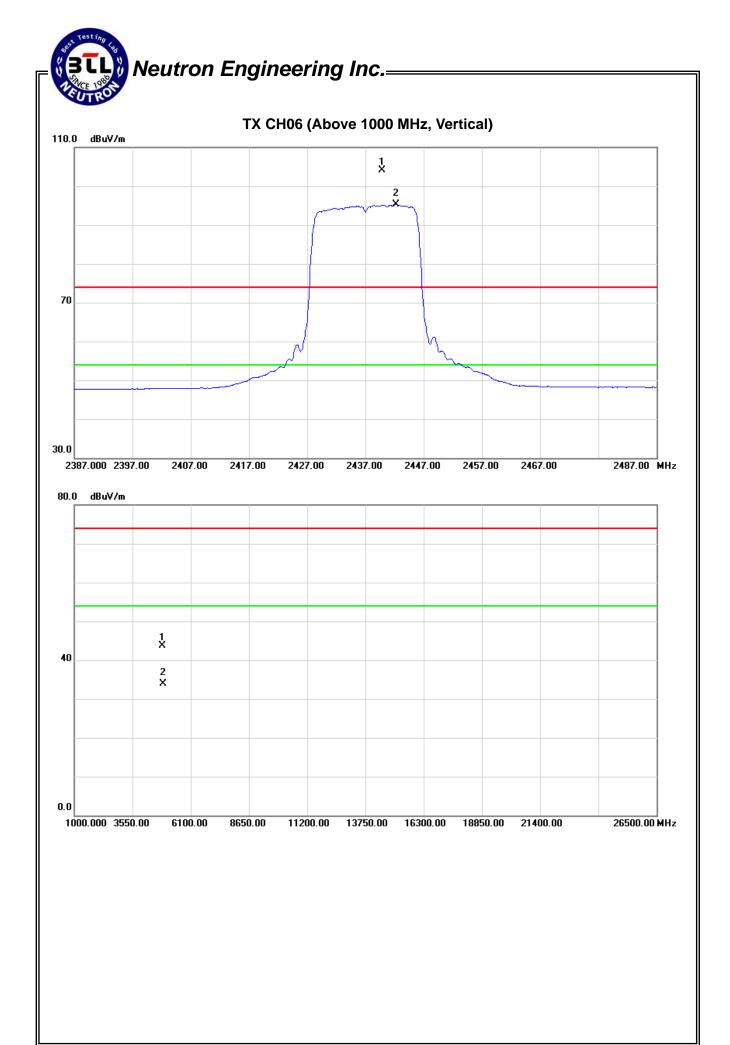
	Freq.	Ant.Pol.	Reading		Ant./CF	Ad	ct.	Limit		
			Peak	AV	Ant./O	Peak	AV	Peak	AV	Note
Γ	(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
	2466.60	V	72.26	62.48	34.32	106.58	96.80			X/F
I	2483.50	V	34.27	18.07	34.37	68.64	52.44	74.00	54.00	X/E
	4924.03	V	39.58	30.12	6.72	46.30	36.84	74.00	54.00	X/H

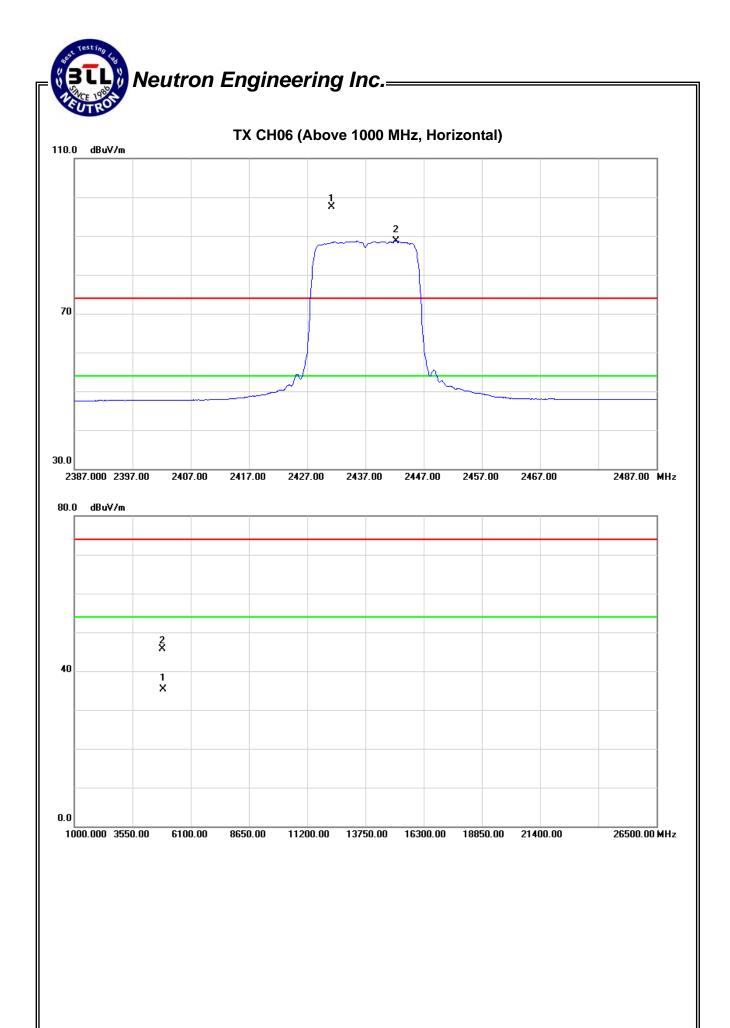
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
1 164.		Peak	AV	711.70	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2464.90	Н	65.04	55.72	34.31	99.35	90.03			X/F
2483.50	Н	29.46	15.39	34.37	63.83	49.76	74.00	54.00	X/E
4923.68	Н	39.52	28.79	6.72	46.24	35.51	74.00	54.00	X/H

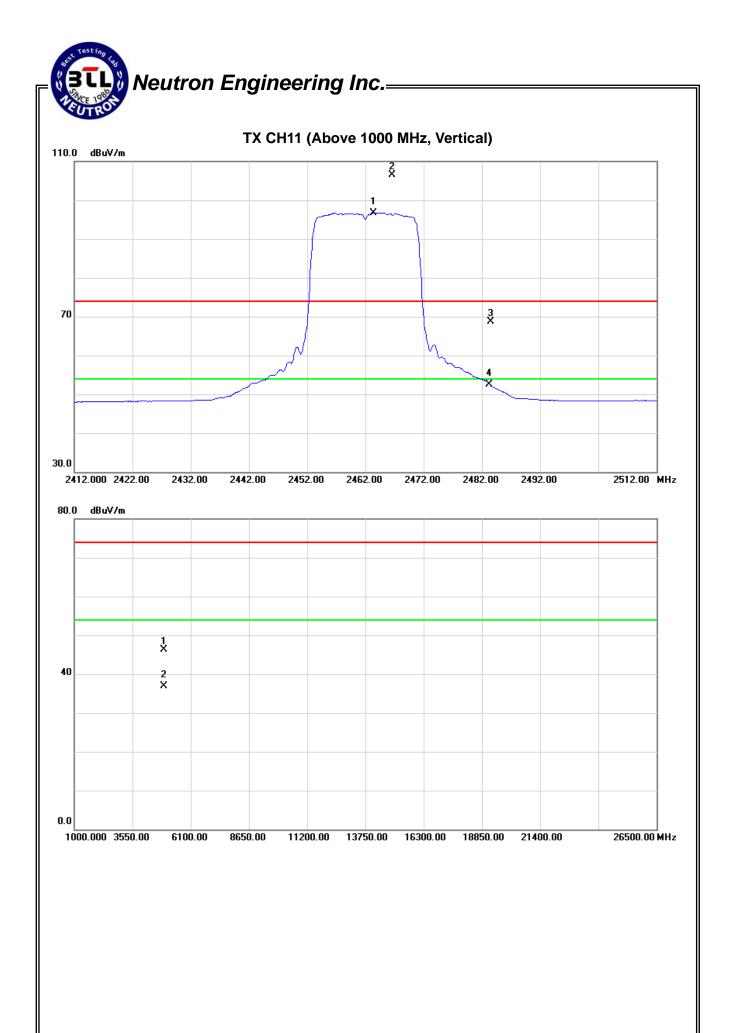
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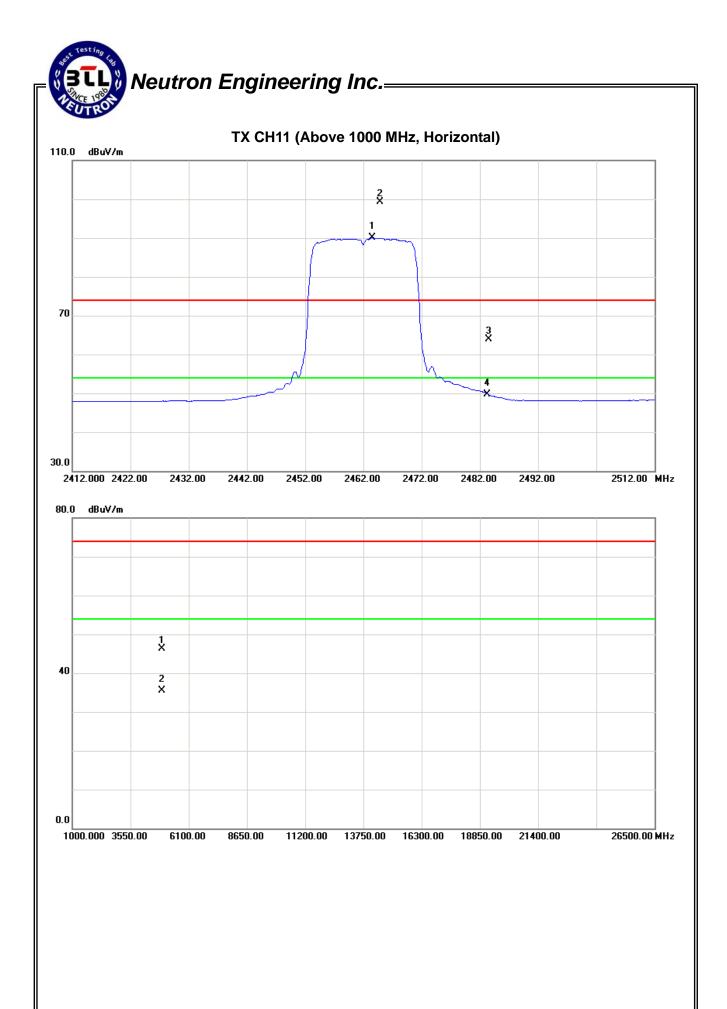














Freq.	Ant.Pol.	nt.Pol. Reading Ant./CF		Act.		Lir	nit		
1 164.	Ant.i oi.	Peak	ak AV Ant./Cr	KIII./OI	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	31.99	18.17	34.09	66.08	52.26	74.00	54.00	X/E
2437.60	V	67.07	57.26	34.23	101.30	91.49			X/F
4843.89	V	39.20	28.38	6.50	45.70	34.88	74.00	54.00	X/H

Freq.	. Ant.Pol. Reading Peak AV	Reading		Ant./CF	Act.		Limit		
1 164.		AV	Peak		AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	29.05	15.98	34.09	63.14	50.07	74.00	54.00	X/E
2431.20	Н	60.35	50.42	34.21	94.56	84.63			X/F
4844.02	Н	39.32	29.54	6.50	45.82	36.04	74.00	54.00	X/H

Test Mode: TX N-40M MODE 2437MHz

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2449.80	V	68.48	58.48	34.27	102.75	92.75			X/F
4874.02	V	39.58	30.82	6.58	46.16	37.40	74.00	54.00	X/H

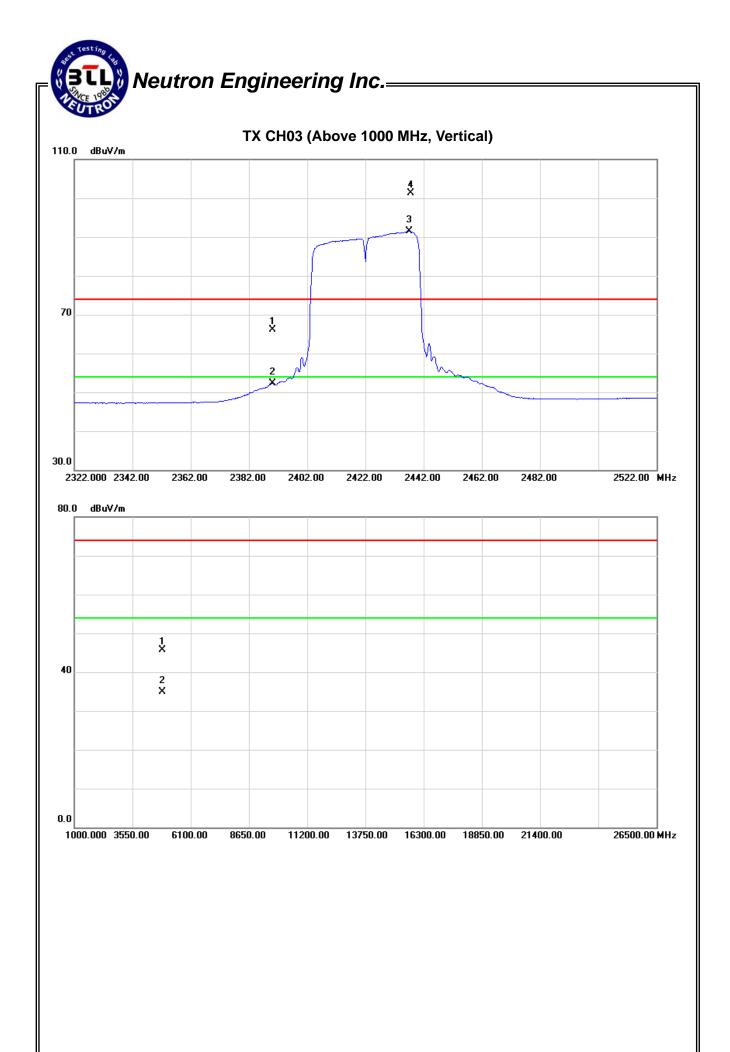
Freq.	Ant.Pol.	Reading		Ant./CF	Ad	Act.		Limit	
		Peak	AV	Ant./Oi	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2450.00	Н	61.45	51.47	34.27	95.72	85.74			X/F
4873.56	Н	39.68	30.42	6.58	46.26	37.00	74.00	54.00	X/H

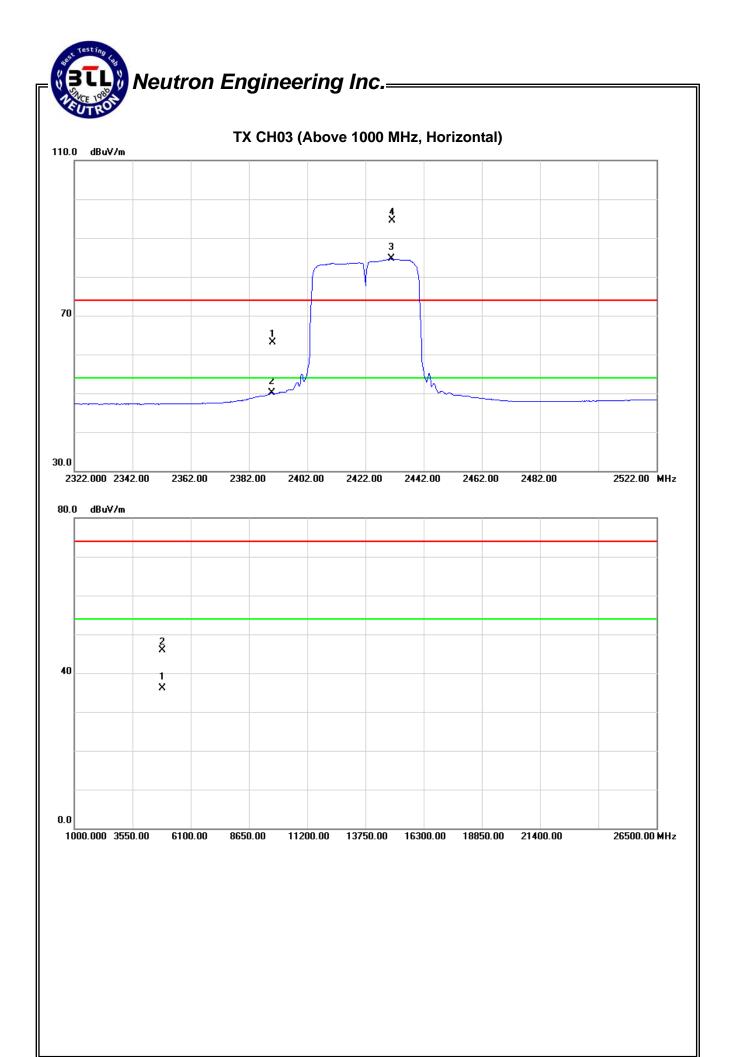
Test Mode: TX N-40M MODE 2452MHz

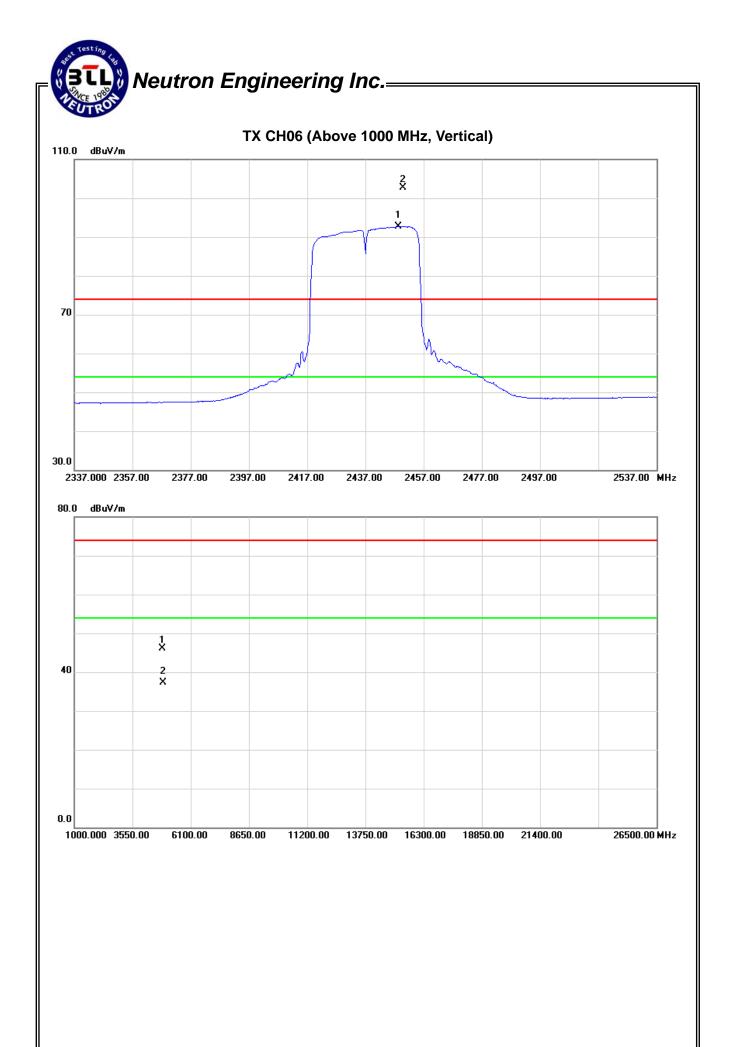
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV	Ant./O	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2461.20	٧	62.66	52.53	34.31	96.97	86.84			X/F
2483.50	V	31.61	17.25	34.37	65.98	51.62	74.00	54.00	X/E
4904.01	V	39.26	30.57	6.67	45.93	37.24	74.00	54.00	X/H

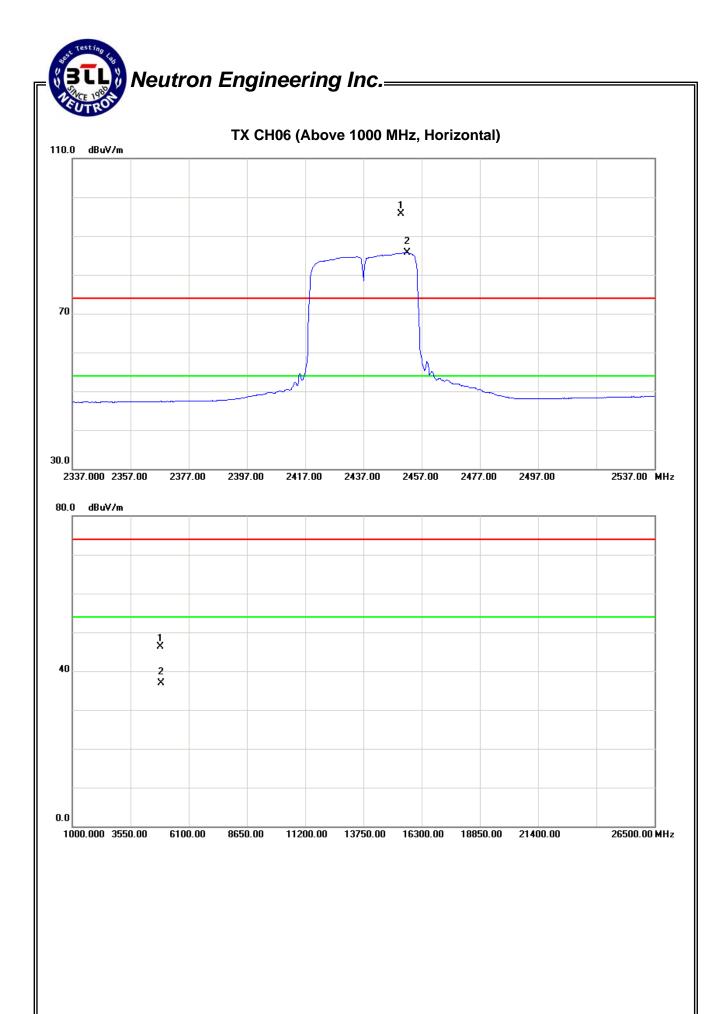
Freq.	Ant.Pol.	Reading		Ant./CF	Ad	Act.		Limit	
		Peak	AV	Ant./O	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2465.00	Н	60.38	50.38	34.31	94.69	84.69			X/F
2483.50	Н	30.44	17.01	34.37	64.81	51.38	74.00	54.00	X/E
4903.82	Н	39.43	28.55	6.67	46.10	35.22	74.00	54.00	X/H

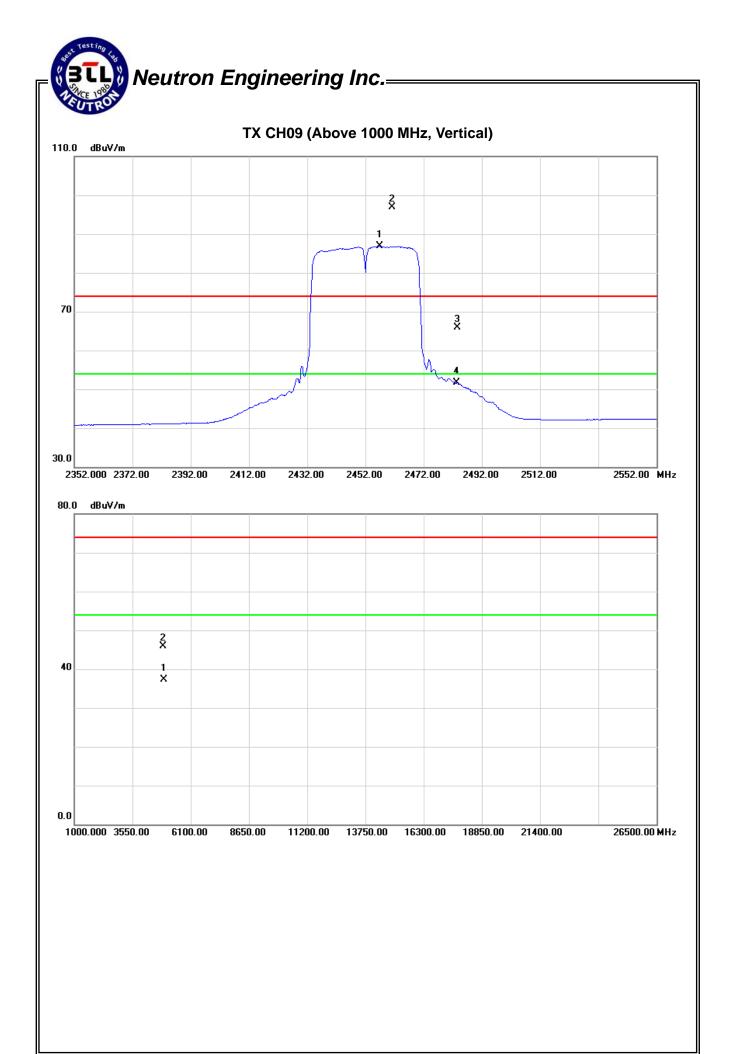
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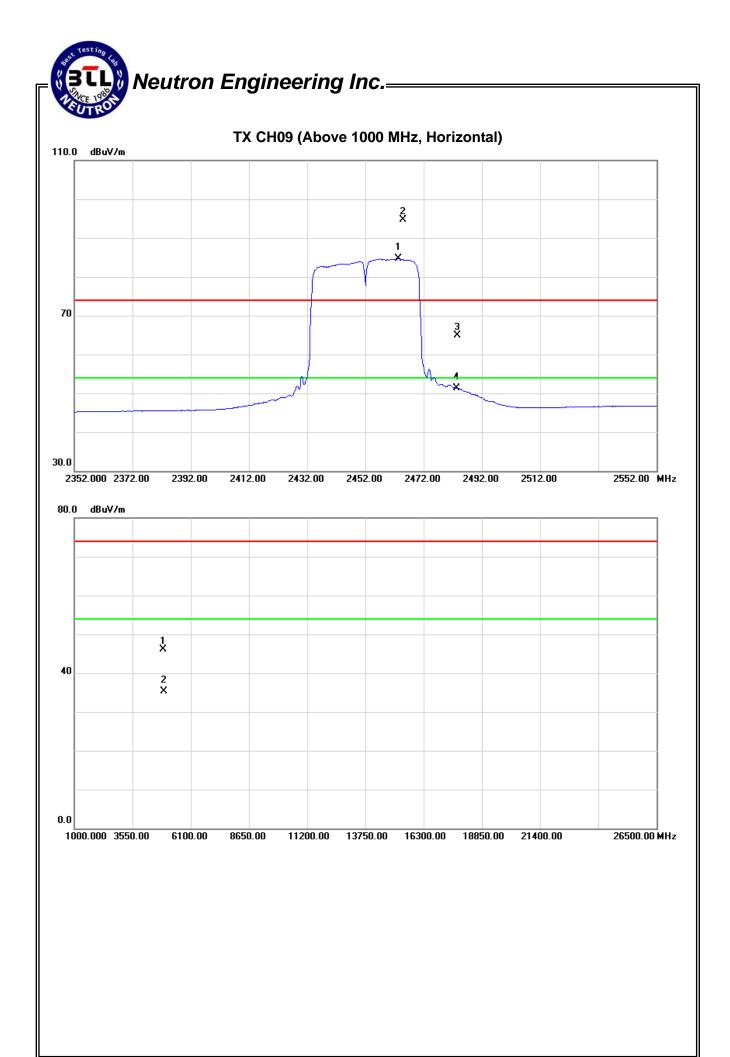












5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C						
Section	Frequency Range (MHz)	Result				
15.247(a)(2)	2400-2483.5	PASS				

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION 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.

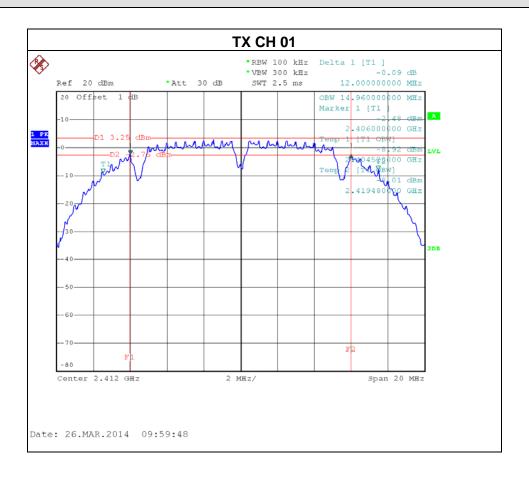
5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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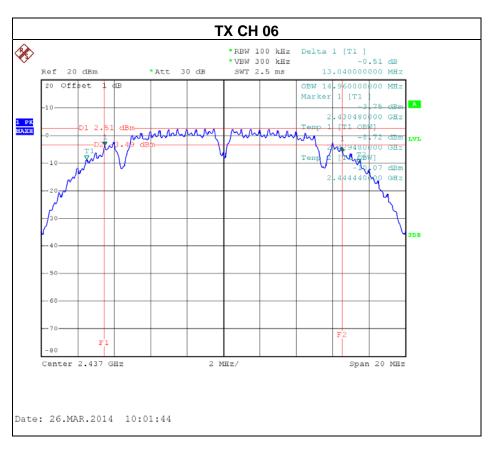
5.1.6 TEST RESULTS

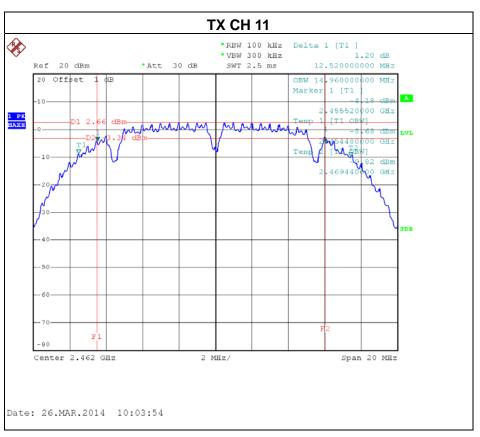
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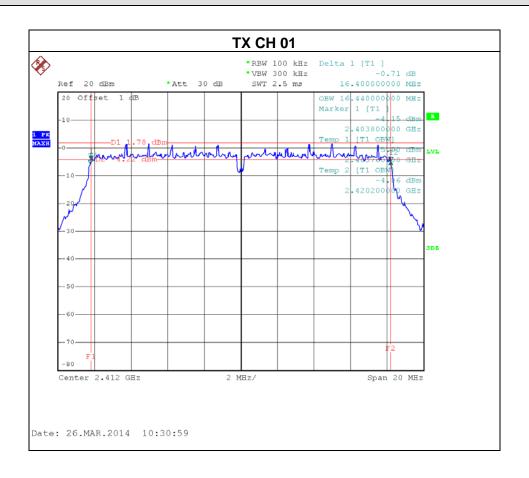
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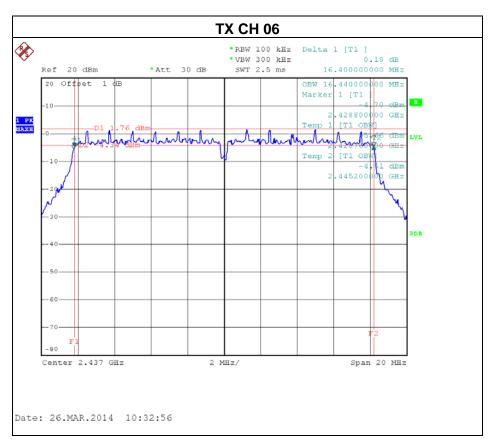


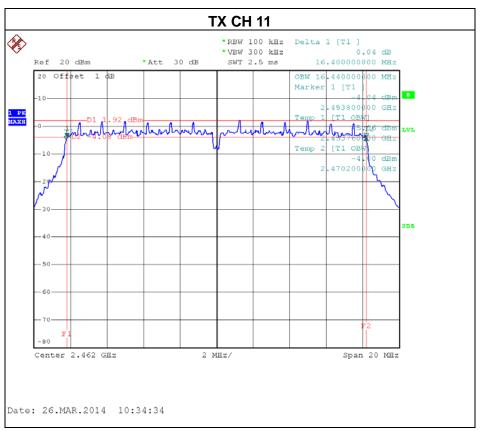
Test Mode: TX G Mode_CH01/06/11



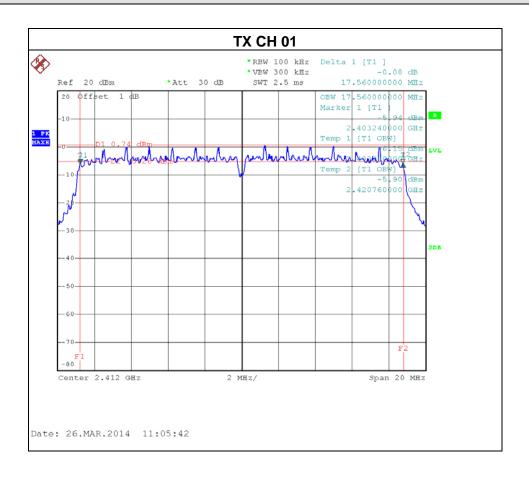
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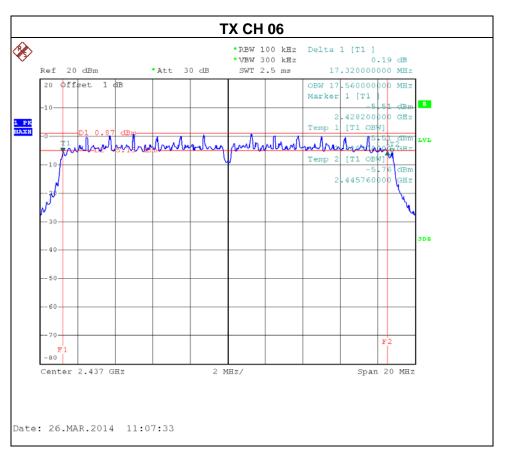


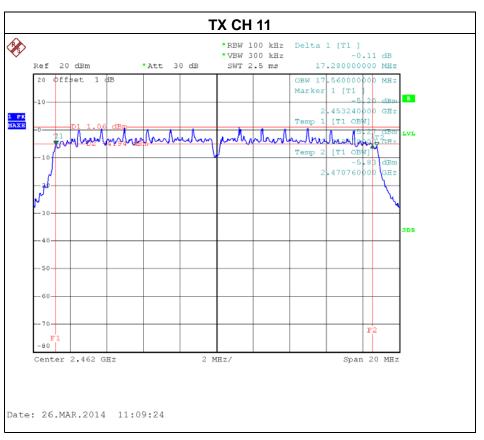
Test Mode: TX N-20MHz Mode_CH01/06/11



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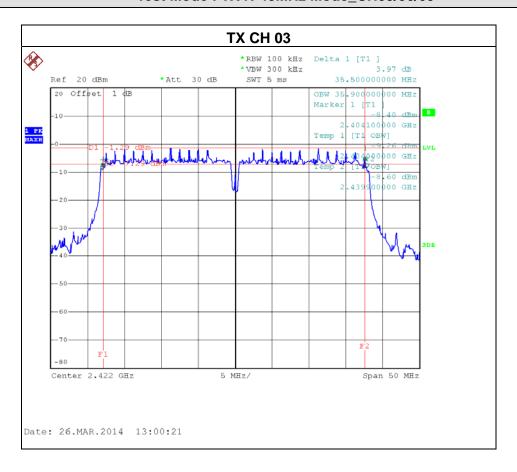






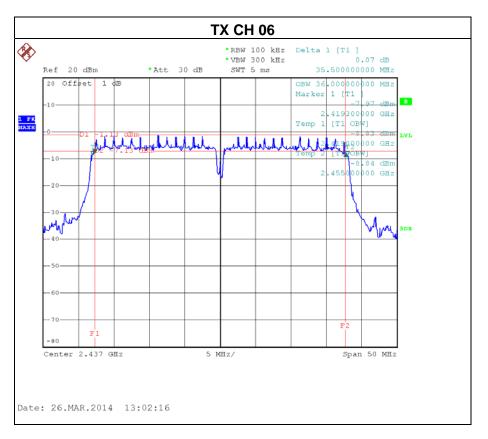
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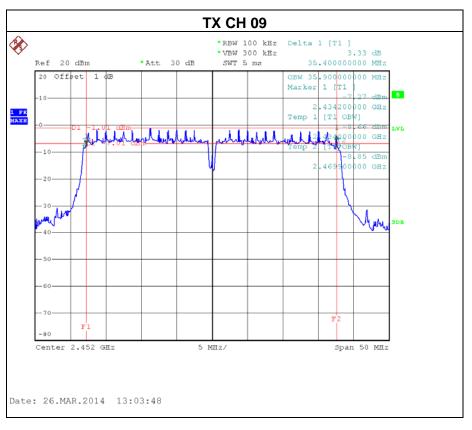
Test Mode: TX N-40MHz Mode_CH03/06/09



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6. MAXIMUM OUTPUT POWER TEST

6.1 Applied procedures / limit

	FCC Part15 (15.247) , Subpart C									
S	ection	Test Item	Limit	Frequency Range (MHz)	Result					
15.2	47(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS					

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.3 of FCC KDB 558074 D01 DTS Meas Guidance v03r01.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 Circi meter

6.1.4 EUT OPERATION 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.

Transmit output power was measured while the host equipment supply voltage was varied from 85 % to 115 % of the nominal rated supply voltage. No change in transmit output power was observed.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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6.1.6 TEST RESULTS

Test Mode : TX B Mode				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	14.26	30	1
CH06	2437	14.03	30	1
CH11	2462	13.89	30	1

Test Mode : TX G Mode				
Test Channel	Frequency	Peak Output Power	Limit	Limit
	(MHz)	(dBm)	(dBm)	(Watt)
CH01	2412	19.05	30	1
CH06	2437	18.87	30	1
CH11	2462	19.07	30	1

Test Mode : TX N-20M Mode				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH01	2412	18.42	30	1
CH06	2437	18.44	30	1
CH11	2462	18.51	30	1

Test Mode : TX N-40M Mode				
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Limit (Watt)
CH03	2422	19.22	30	1
CH06	2437	19.11	30	1
CH09	2452	19.02	30	1

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7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 Applied procedures / 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 measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

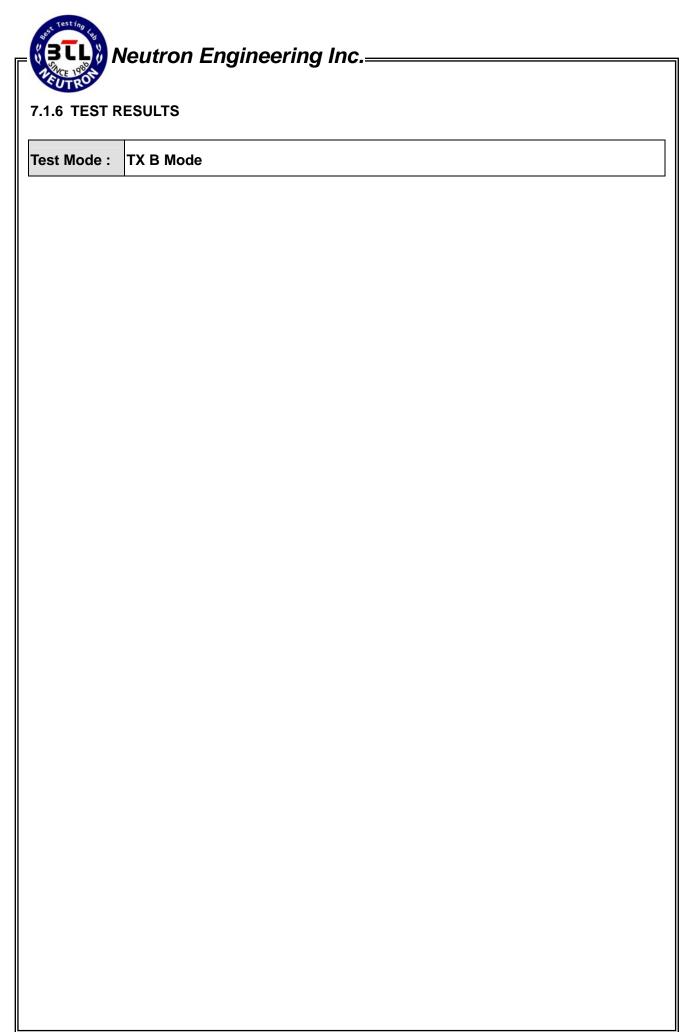
7.1.4 EUT OPERATION CONDITIONS

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.

7.1.5 EUT TEST CONDITIONS

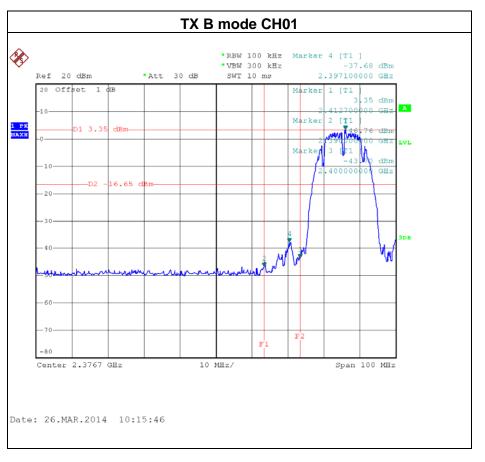
Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

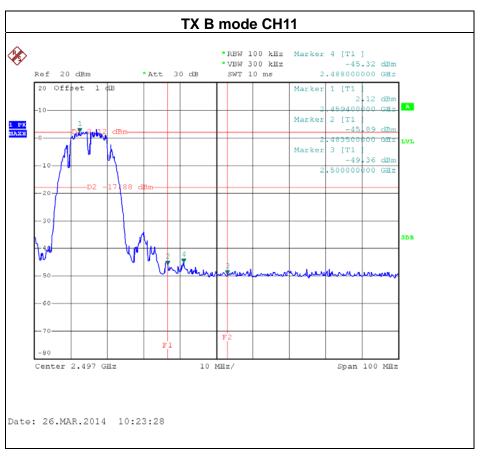
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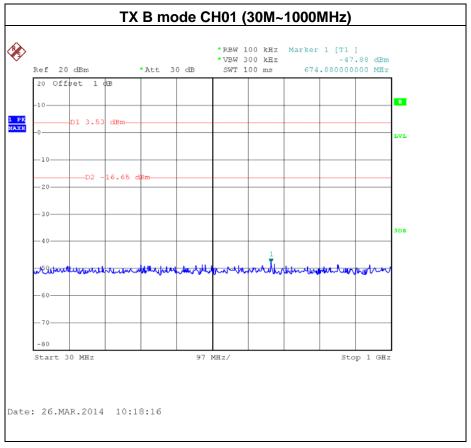


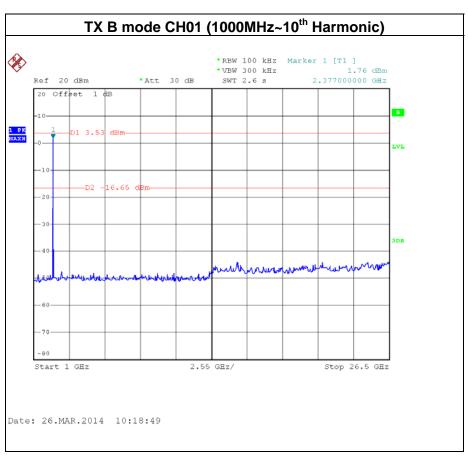




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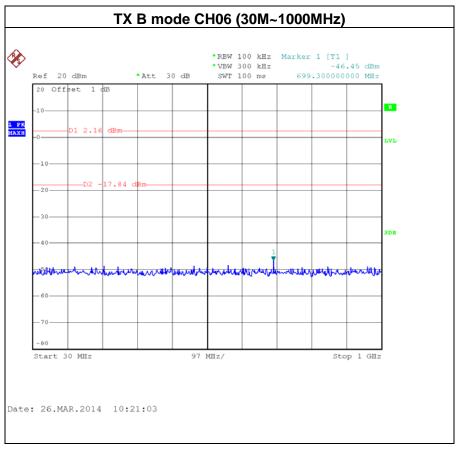


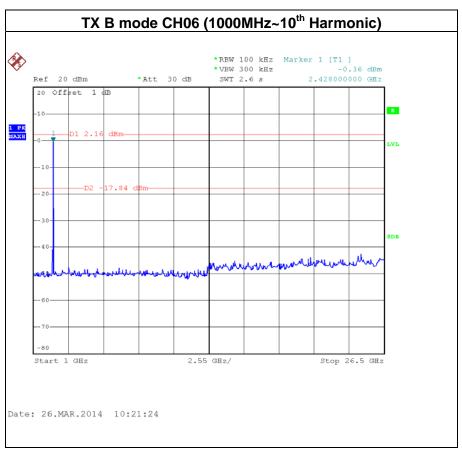




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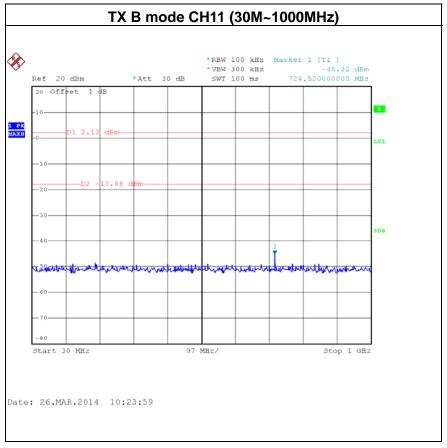


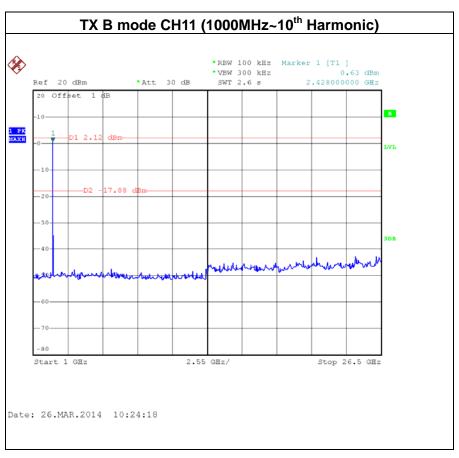




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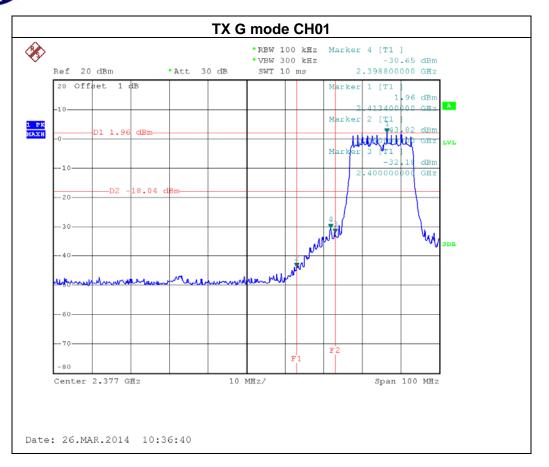


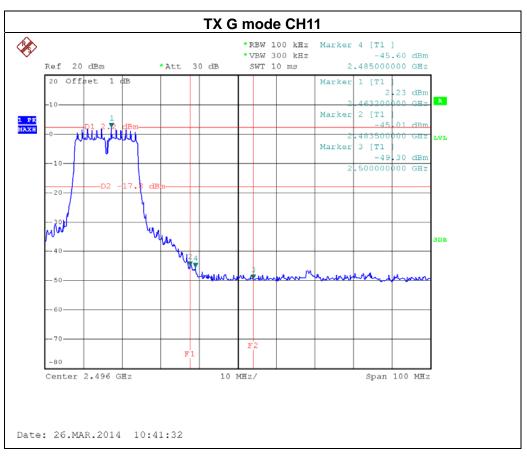


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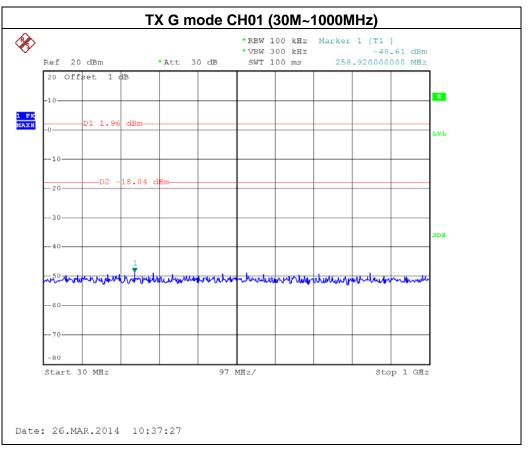
est Mode :	TX G Mode	

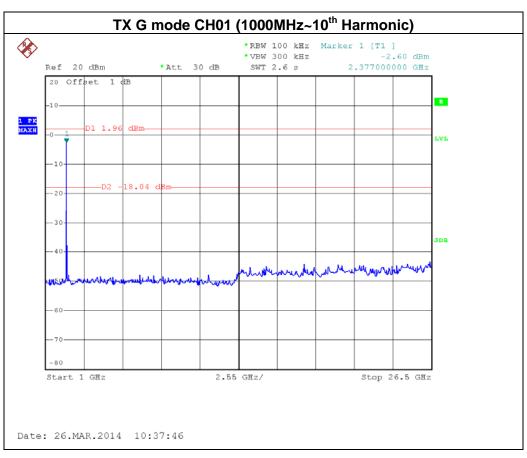
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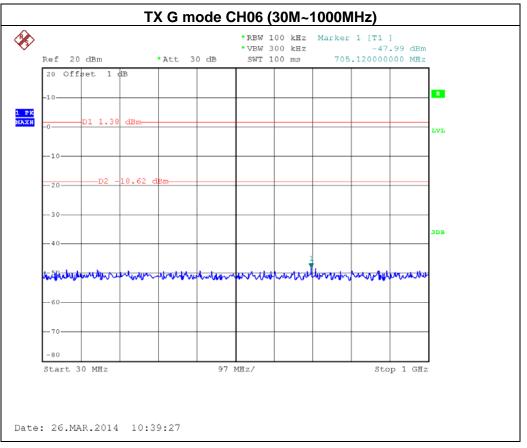


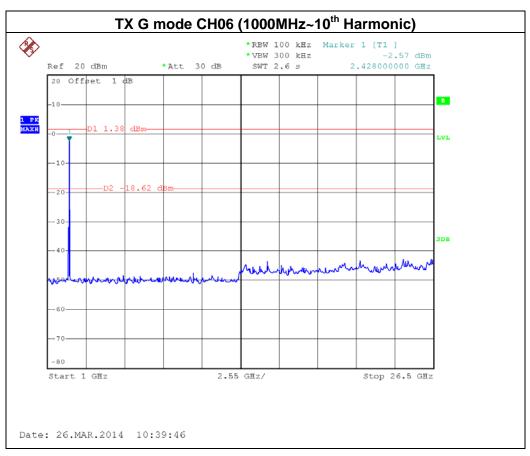
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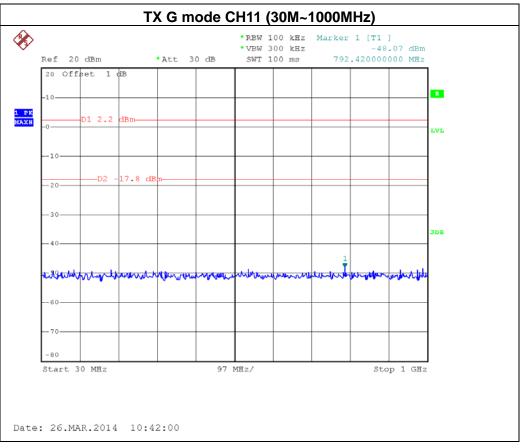


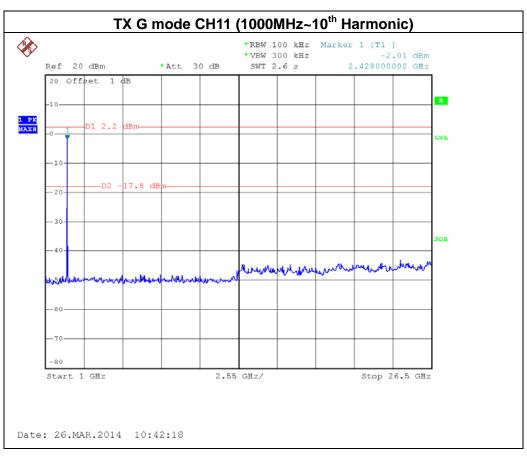
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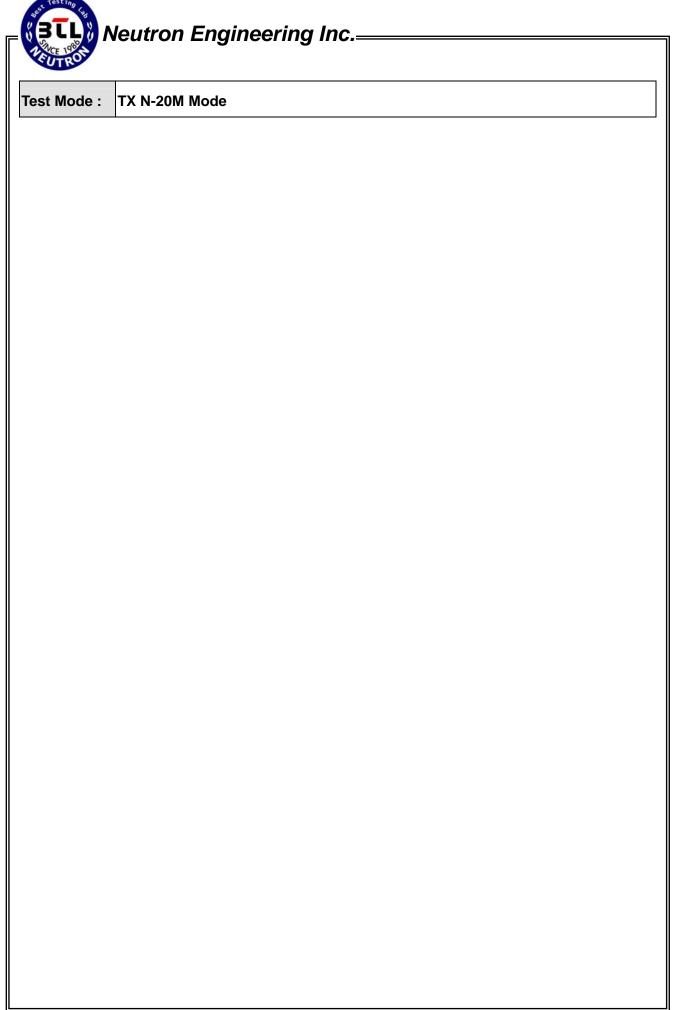


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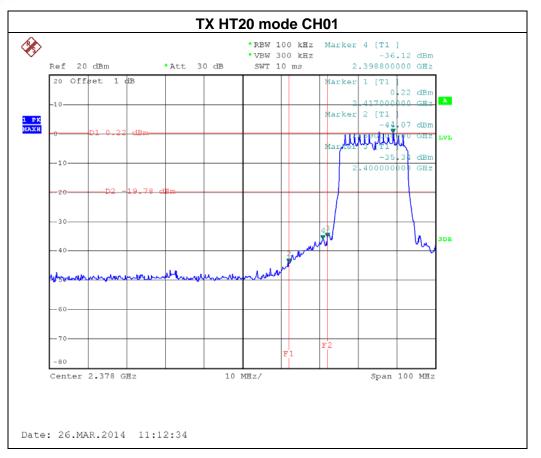


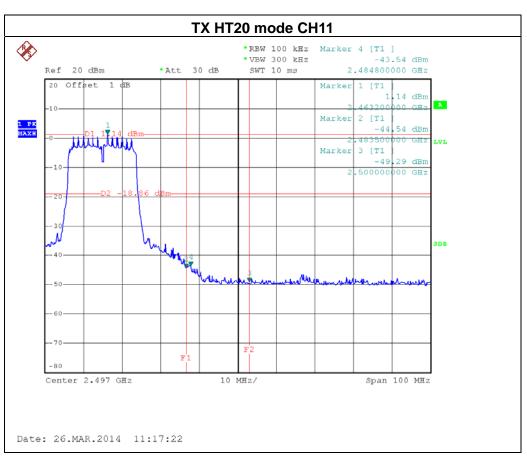


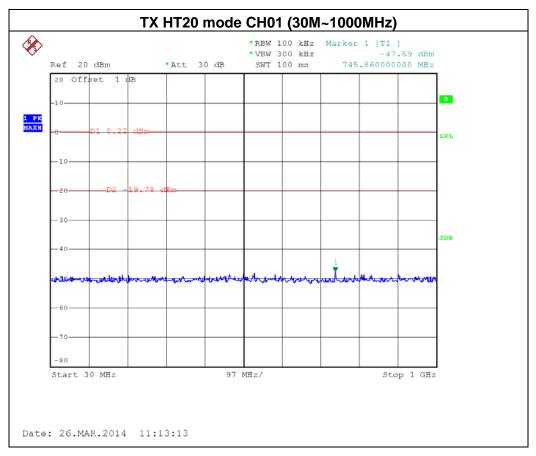
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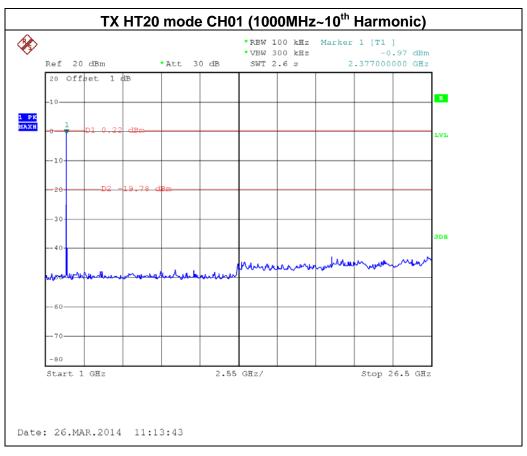


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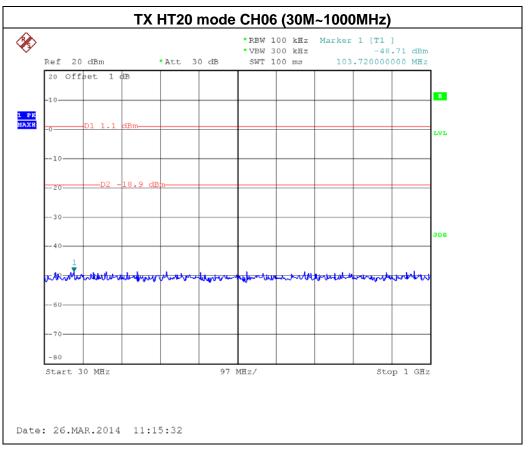


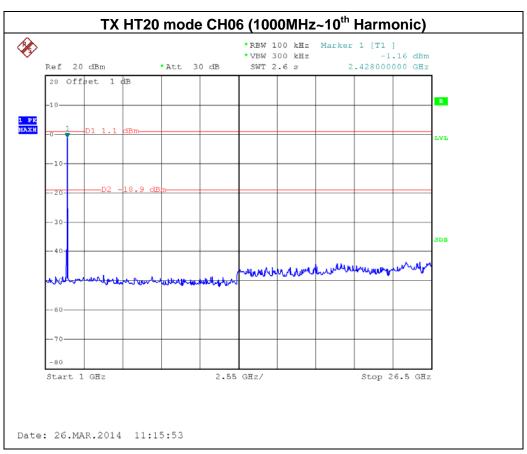




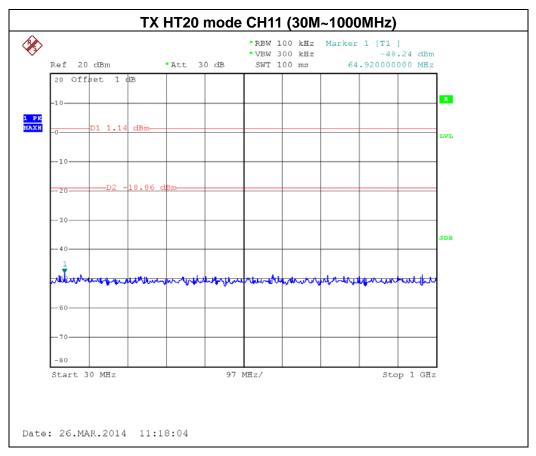


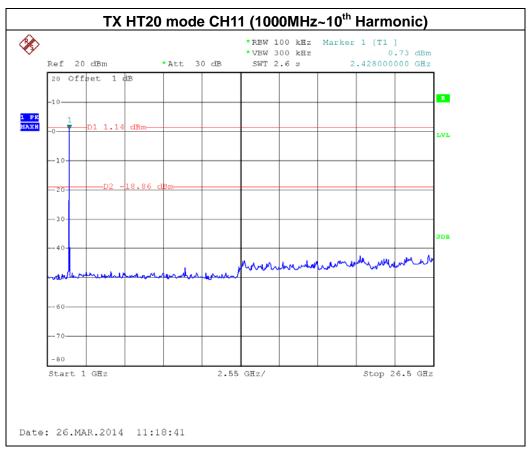
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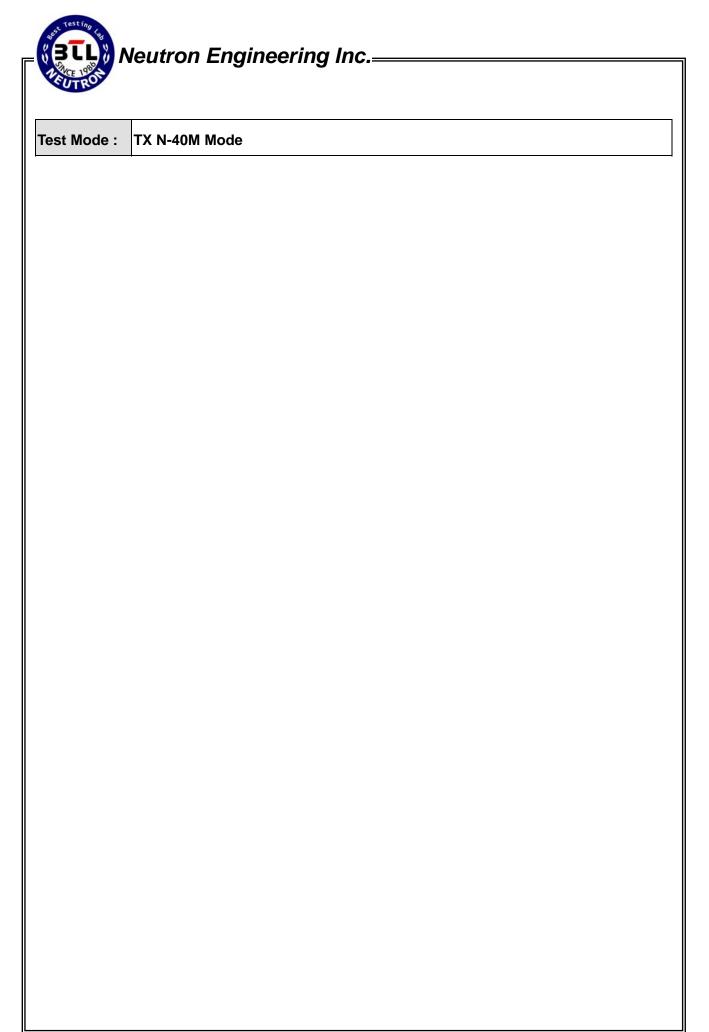




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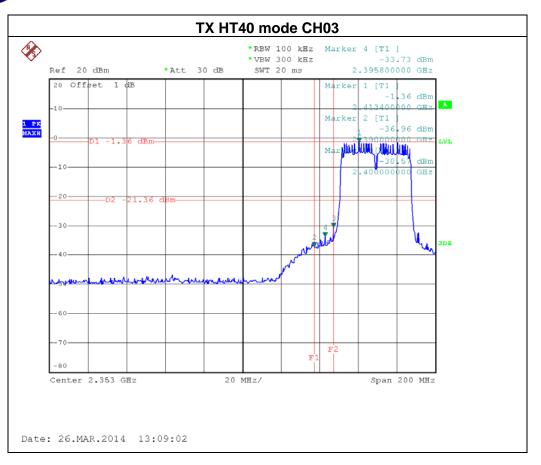


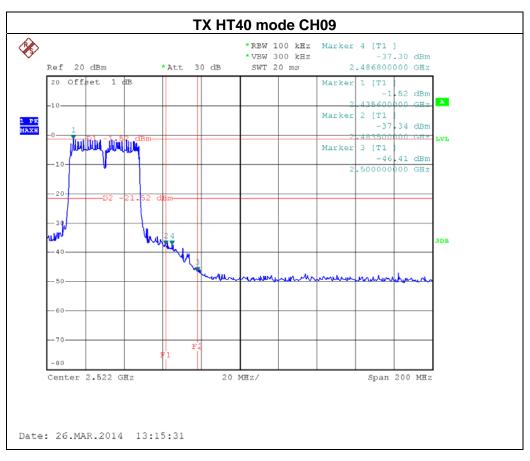




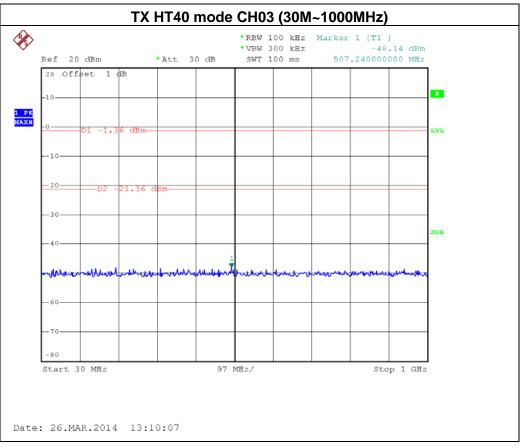
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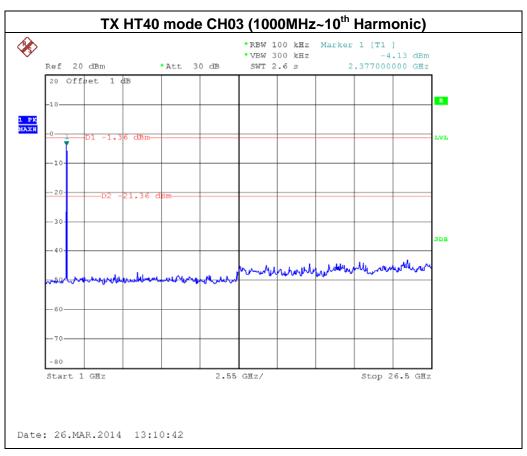




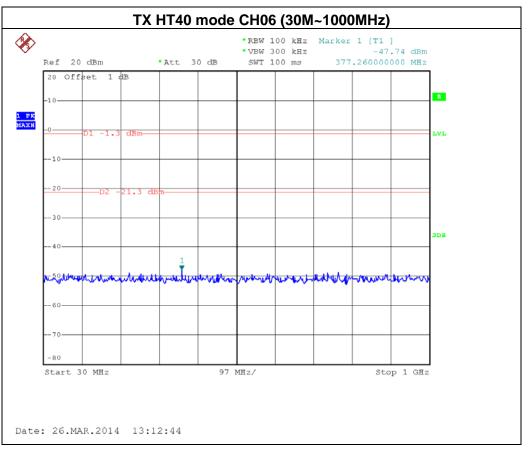


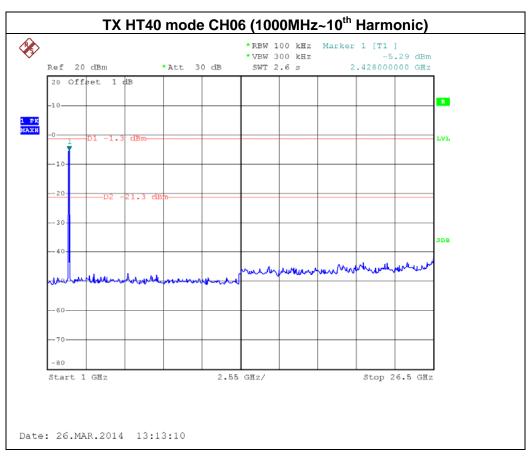
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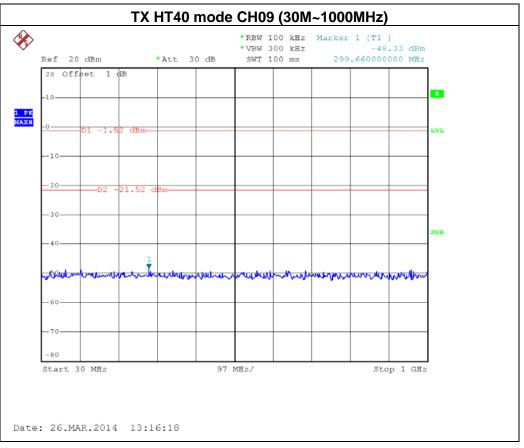


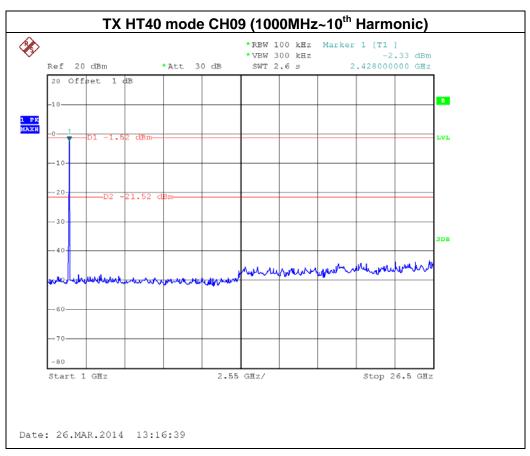
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8. POWER SPECTRAL DENSITY TEST

8.1 Applied procedures / limit

FCC Part15 (15.247) , Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION 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.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

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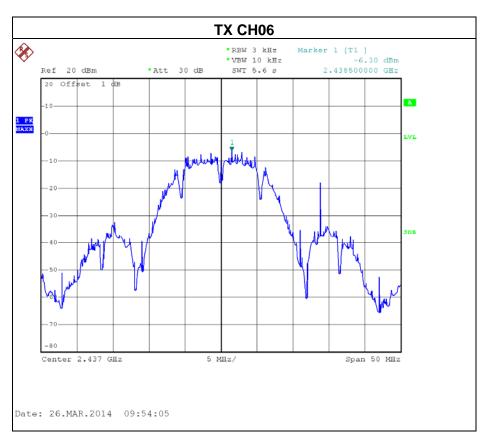
8.1.6 TEST RESULTS

Test Mode :TX B Mode_CH01/06/11



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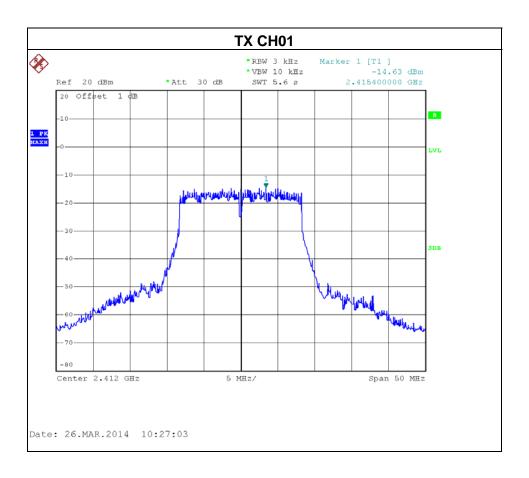






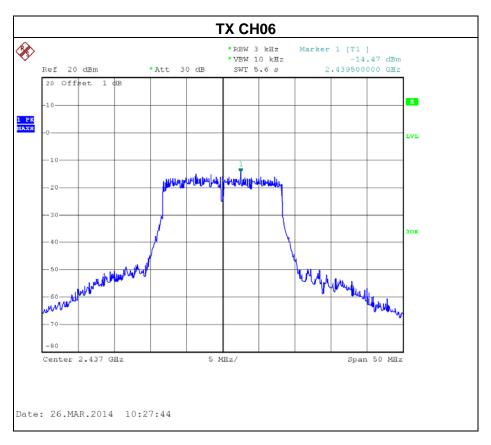
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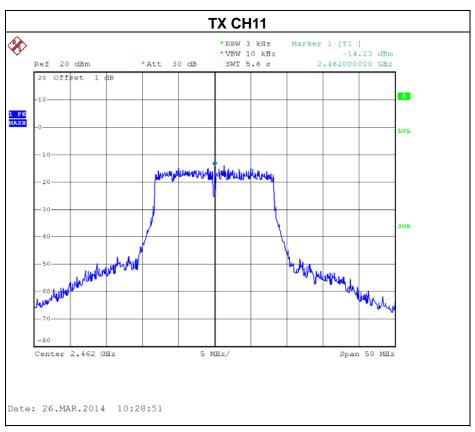
Test Mode :TX G Mode_CH01/06/11



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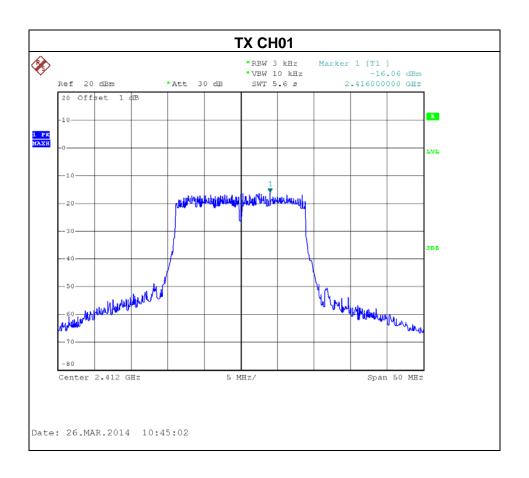






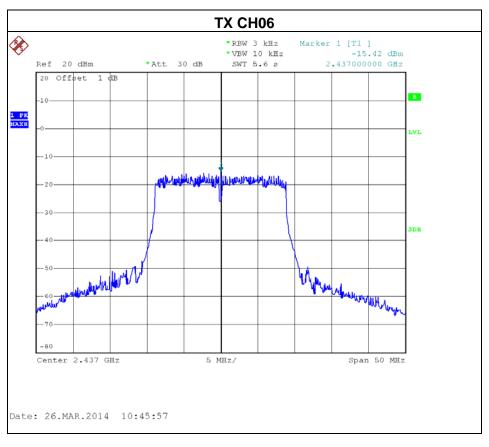
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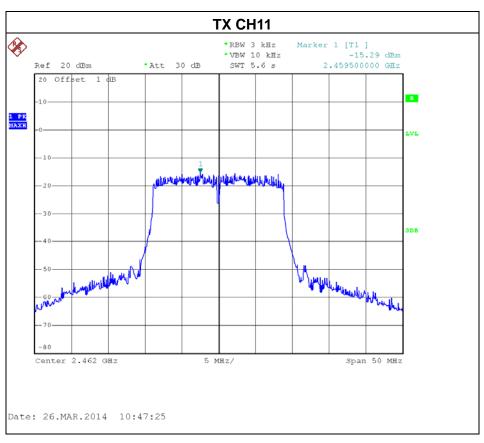
Test Mode: TX N-20M Mode_CH01/06/11



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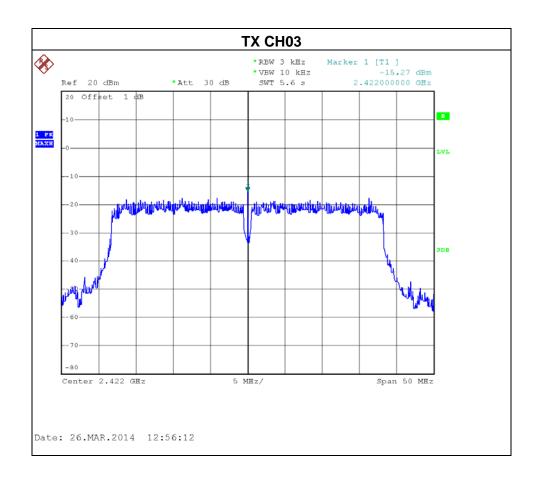






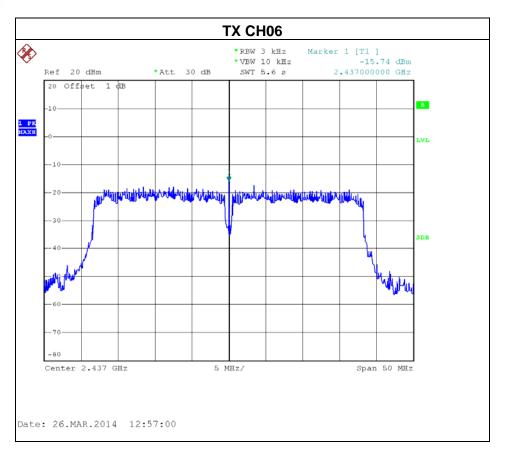
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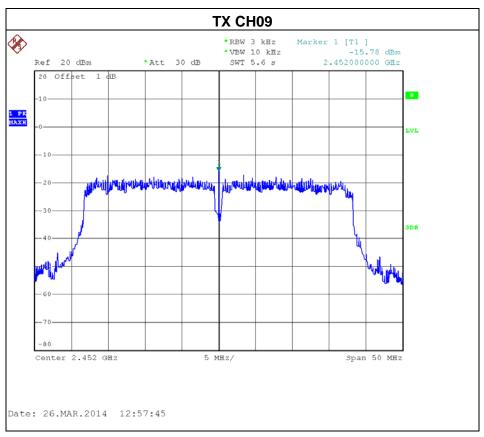
Test Mode: TX N-40M Mode_CH03/06/09



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9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	LISN	EMCO	3816/2	00052765	Apr. 25, 2014	
2	LISN	R&S	ENV216	100087	Nov. 09, 2014	
3	Test Cable	N/A	C_17	N/A	Mar.14, 2015	
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Apr. 25, 2014	
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Apr. 25, 2014	

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Apr. 25, 2014		
2	Amplifier	HP	8447D	2944A09673	Apr. 25, 2014		
3	Test Receiver	R&S	ESCI	100382	Apr. 25, 2014		
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 02, 2014		
5	Antenna	ETS	3115	00075789	Apr. 25, 2014		
6	Amplifier	Agilent	8449B	3008A02274	Apr. 25, 2014		
7	Spectrum	Agilent	E4408B	US39240143	Nov. 09, 2014		
8	Test Cable	HUBER+SUHNER	C-45	N/A	Apr. 30, 2014		
9	Controller	СТ	SC100	N/A	N/A		
10	Horn Antenna	EMCO	3115	9605-4803	Apr. 25, 2014		
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Apr. 25, 2014		
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct. 22, 2014		

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014

	Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	P-series Power meter	Agilent	N1911A	MY45100473	Apr. 25, 2014	
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Apr. 25, 2014	

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	Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014	

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 09, 2014

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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10. EUT TEST PHOTO

Conducted Measurement Photos





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Radiated Measurement Photos 9K~30MHz





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Radiated Measurement Photos 30~1000MHz

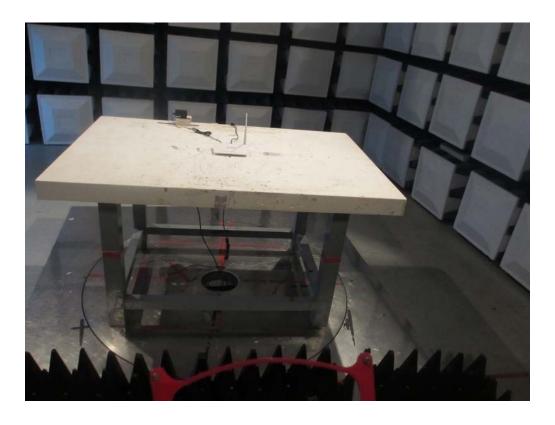


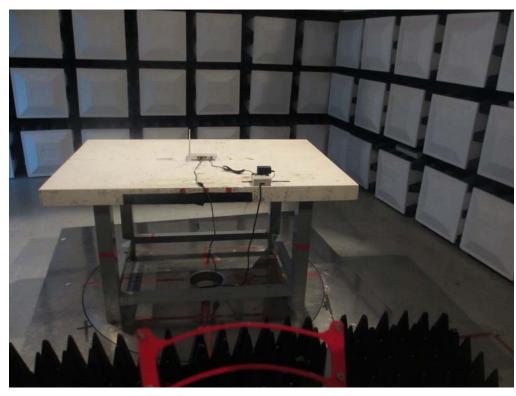


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Radiated Measurement Photos Above 1000MHz





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