

FCC Radio Test Report

FCC ID: NDD9562281408

This report conce	rns (check one): ⊠Original Grant
Project No. Equipment Model Name Applicant Address	 : 1412C250 : 5-in-1 N150 Wi-Fi Router, Access Point & Range Extender : BR-6238nS; BR-6228nS V3 : EDIMAX TECHNOLOGY CO., LTD : No.3, Wu-Chuan 3rd Road, Wu-Ku, New Taipei city 24891, Taiwan
Date of Receipt Date of Test Issued Date Tested by	 Jan. 06, 2015 Jan. 06, 2015~Jan. 20, 2015 Jan. 21, 2015 BTL Inc.
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Declaration

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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
BTL-FCCP-1-1412C250	Original Issue.	Jan. 21, 2015

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1. CERTIFICATION

Equipment : 5-in-1 N150 Wi-Fi Router, Access Point & Range Extender

Brand Name: Edimax

Model Name: BR-6238nS; BR-6228nS V3

Applicant : EDIMAX TECHNOLOGY CO., LTD Manufacturer : EDIMAX TECHNOLOGY CO., LTD

Address : No.3, Wu-Chuan 3rd Road, Wu-Ku, New Taipei city 24891, Taiwan

Factory: 1)Shenzhen Gongjin Electronics Co.,Ltd

2) Taicang T&W Electronics Co., Ltd

Address : 1)No 2&3 Buildings, Mingwei Factory Area, Songgang Road West, No. A

Building, 1#Songgang Road Songgang Sub-District, Shenzhen, Guangdong,

518105, P.R. China

2) Jiangnan Road 89, Ludu Town, Taicang, Suzhou, Jiangsu, 215412, P.R. China

Date of Test : Jan. 06, 2015~Jan. 20, 2015 Test Sample : ENGINEERING SAMPLE

Standard(s): FCC Part15, Subpart C: 2013 (15.247) / ANSI C63.4-2009

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1412C250) 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: 2013					
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 v03r02 (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, Dongguan, Guangdong, 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 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 % $^{\circ}$

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 Ant. Range H / V U, (dB) NC		NOTE		
		9KHz~30MHz	V	3.79		
		9KHz~30MHz	Н	3.57		
		30MHz ~ 200MHz	V	3.82		
	02 CIEDD	30MHz ~ 200MHz	Н	3.60		
DG-C 03		CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-C 03	CISEIX	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	5-in-1 N150 Wi-Fi Router, Access Point & Range Extender		
Brand Name	Edimax		
Model Name	BR-6238nS; BR-6228nS	V3	
Model Difference	The market distribution is	different only.	
	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: 20.97dBm 802.11g: 23.90dBm 802.11n(20MHz): 23.99dBm 802.11n(40MHz): 23.90dBm	
Power Source	DC voltage supplied from AC/DC adapter. Brand/Model: shenzhen Gongjin Electronics /S06A12-050A100-P4		
Power Rating	I/P: AC 100-240V~50/60Hz max 0.3A O/P: DC 5V 1A		

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. Channel List:

	CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 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	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	TONGWEI	AAT150000001	Dipole	N/A	4.67	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 (13.5Mbps)
 - 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.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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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		CMD	
Frequency (MHz)	2412	2437	2462
802.11b	43	42	41
802.11g	43	41	41
802.11n (20MHz)	42	42	39
Frequency	2422	2437	2452
802.11n (40MHz)	40	40	39

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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/IC	Series No.	Note
-	-	-		-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

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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 of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.5	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	60	50	

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

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.

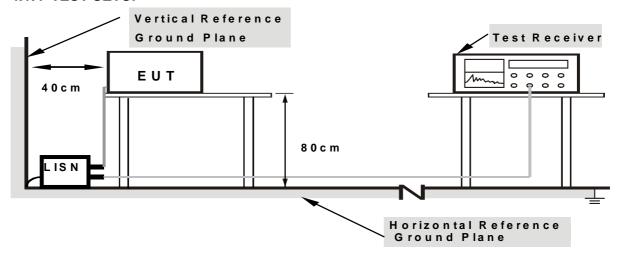
4.1.3 DEVIATION FROM TEST STANDARD

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

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)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
r requericy (ivil 12)	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).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value
(Emission in restricted band)	RMS detector for AV value

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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

4.2.2 TEST PROCEDURE

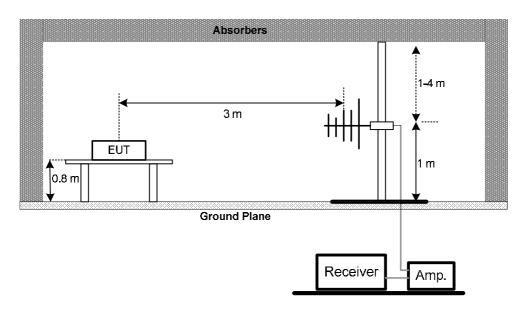
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 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 DEVIATION FROM TEST STANDARD

No deviation

4.2.4 TEST SETUP

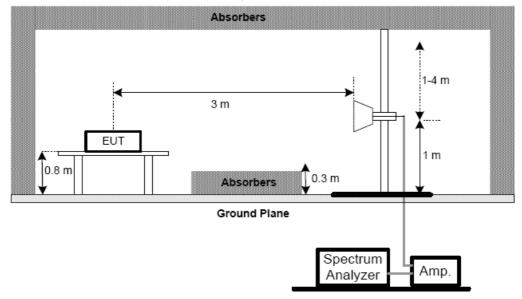
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



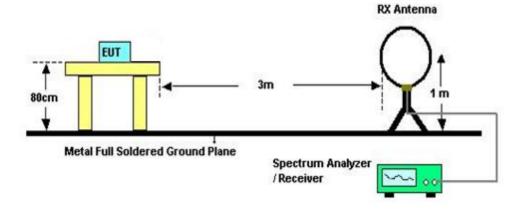
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(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5 Unless** otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

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

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4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

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.

4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

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5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247), Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	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 4.1.5 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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(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 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	, on on motor

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

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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



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

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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 4.1.5 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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

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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	Mar. 29, 2015			
2	LISN	R&S	ENV216	101447	Mar. 29, 2015			
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015			
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015			
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015			
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. 29, 2015			
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015			
3	Receiver	AGILENT	N9038A	MY5213003 9	Sep. 30, 2015			
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015			
5	Controller	Controller CT SC100		N/A	N/A			
6	Antenna	ETS 3111		00075789	Mar. 29, 2015			
7	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015			
8	Receiver	AGILENT	N9038A	MY5213003 9	Sep. 30, 2015			
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015			
10	Controller	СТ	SC100	N/A	N/A			
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015			
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 22, 2015			
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015			
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A			

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6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

	Peak Output Power Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015		
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015		

	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. 02, 2015	

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

9KHz to 30MHz





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Radiated Measurement Photos

30MHz to 1000MHz





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Radiated Measurement Photos

Above 1000MHz





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ATTACHMENT A - CONDUCTED EMISSION

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30.000



Line 80.0 dBuV 0.0

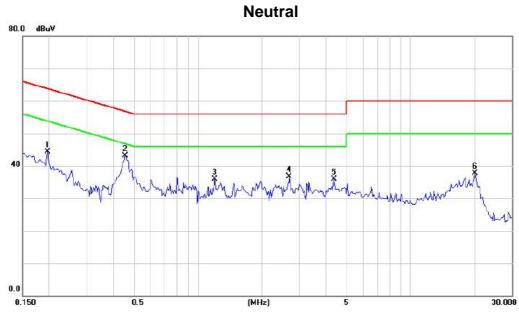
(MHz)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1968	34.16	9.50	43.66	63.74	-20.08	peak	
2	*	0.4391	36.86	9.61	46.47	57.08	-10.61	peak	
3		0.4391	23.20	9.61	32.81	47.08	-14.27	AVG	
4		0.8882	31.38	9.59	40.97	56.00	-15.03	peak	
5		1.4585	28.42	9.61	38.03	56.00	-17.97	peak	
6		2.7360	27.49	9.61	37.10	56.00	-18.90	peak	
7		4.3163	27.27	9.66	36.93	56.00	-19.07	peak	

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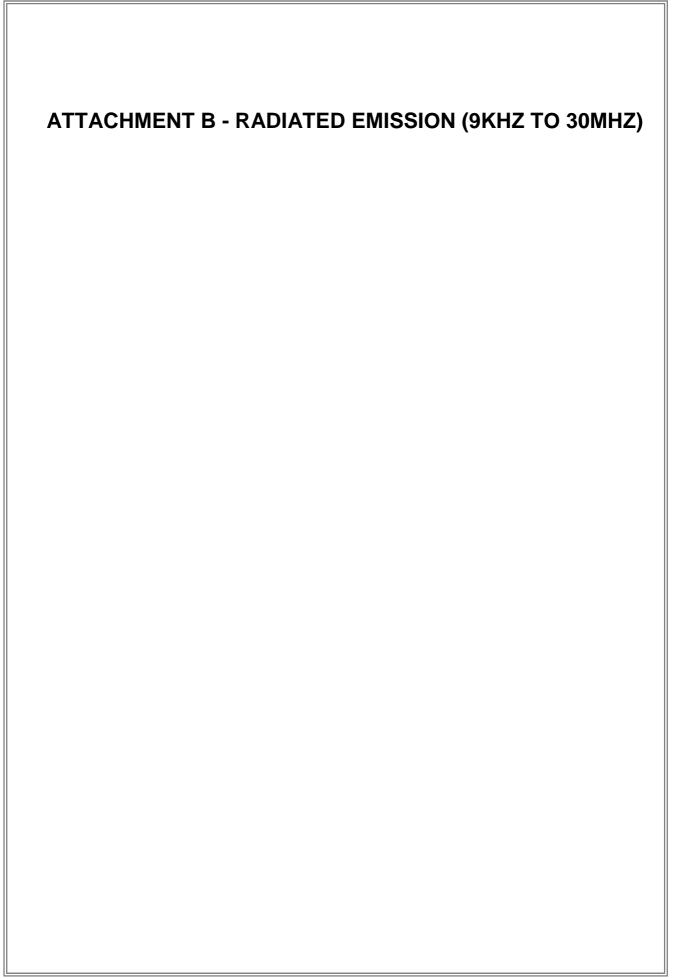




No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1		0.1970	34.73	9.57	44.30	63.74	-19.44	peak		
2	*	0.4586	33.45	9.58	43.03	56.72	-13.69	peak		
3		1.2047	26.37	9.61	35.98	56.00	-20.02	peak		
4		2.6970	27.04	9.64	36.68	56.00	-19.32	peak		
5		4.3750	26.21	9.67	35.88	56.00	-20.12	peak		
6	- 1	20.1094	27.71	10.03	37.74	60.00	-22.26	peak		

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Test Mode: TX Mode 2412MHz

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0072	0°	13.47	25.11	38.58	110.46	-71.88	AVG
0.0072	0°	14.52	25.11	39.63	130.46	-90.83	PEAK
0.0168	0°	5.52	24.50	30.02	103.10	-73.08	AVG
0.0168	0°	7.17	24.50	31.67	123.10	-91.43	PEAK
0.0271	0°	3.23	23.85	27.08	98.94	-71.86	AVG
0.0271	0°	5.59	23.85	29.44	118.94	-89.50	PEAK
0.0352	0°	0.96	23.34	24.30	96.67	-72.38	AVG
0.0352	0°	2.57	23.34	25.91	116.67	-90.77	PEAK
0.5340	0°	30.08	19.91	49.99	73.05	-23.06	QP
1.8650	0°	21.34	19.51	40.85	69.54	-28.69	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit(QP) (dBuV/m)	Margin (dB)	Note
0.0065	90°	12.34	24.30	36.64	131.35	-94.71	AVG
0.0065	90°	14.23	24.30	38.53	151.35	-112.82	PEAK
0.0213	90°	6.88	24.22	31.10	121.04	-89.94	AVG
0.0213	90°	8.46	24.22	32.68	141.04	-108.36	PEAK
0.0478	90°	3.31	22.54	25.85	114.02	-88.17	AVG
0.0478	90°	5.68	22.54	28.22	134.02	-105.80	PEAK
0.0532	90°	0.79	22.34	23.13	113.09	-89.96	AVG
0.0532	90°	2.43	22.34	24.77	133.09	-108.32	PEAK
0.4820	90°	30.41	19.84	50.25	93.94	-43.69	QP
1.9570	90°	20.15	19.50	39.65	69.54	-29.89	QP

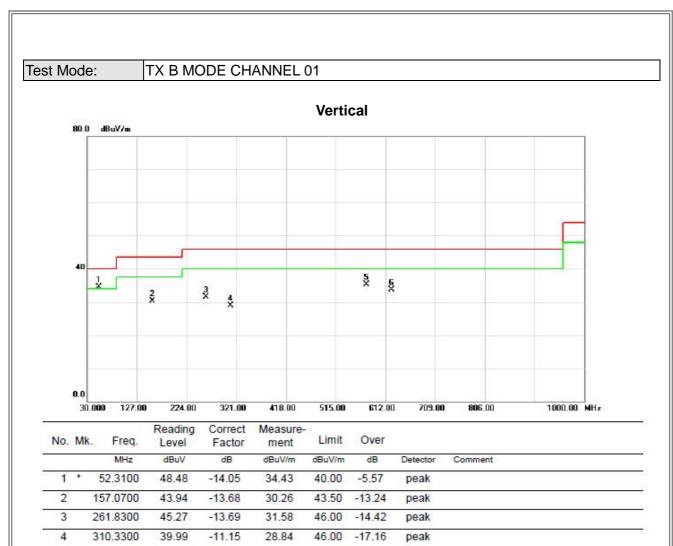
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ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

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5

6

575.1400

624.6100

43.22

40.20

-7.92

-6.55

35.30

33.65

46.00

-10.70

46.00 -12.35

peak

peak

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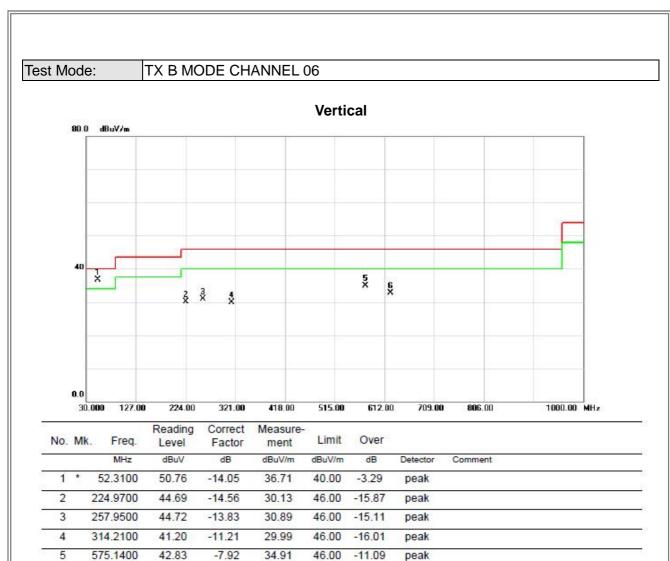




No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		52.3100	38.43	-14.05	24.38	40.00	-15.62	peak	
2		209.4500	48.00	-15.37	32.63	43.50	-10.87	peak	
3	*	261.8300	52.70	-13.69	39.01	46.00	-6.99	peak	
4		314.2100	49.43	-11.21	38.22	46.00	-7.78	peak	
5		414.1200	43.27	-9.27	34.00	46.00	-12.00	peak	
6		786.6000	34.25	-3.36	30.89	46.00	-15.11	peak	

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624.6100

6

39.32

-6.55

32.77

46.00 -13.23

peak

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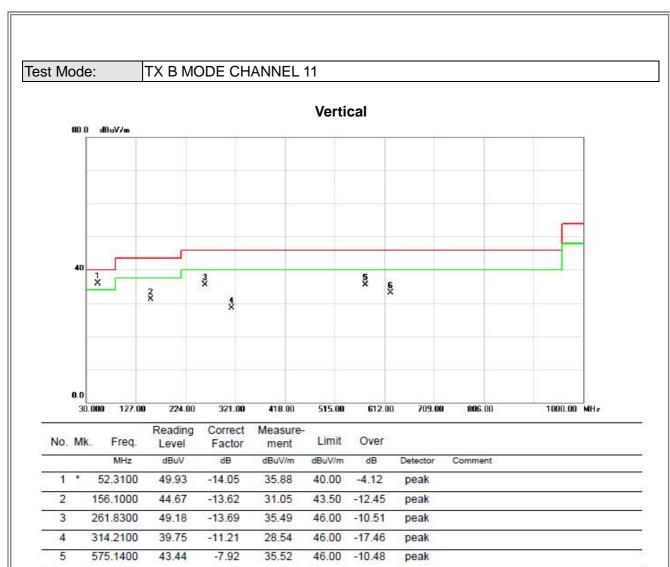




No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5	237.5800	46.66	-14.08	32.58	46.00	-13.42	peak	
2		257.9500	49.74	-13.83	35.91	46.00	-10.09	peak	
3	*	314.2100	49.26	-11.21	38.05	46.00	-7.95	peak	
4		362.7100	43.11	-11.21	31.90	46.00	-14.10	peak	
5		450.0100	35.83	-8.62	27.21	46.00	-18.79	peak	
6	- 3	786.6000	34.31	-3.36	30.95	46.00	-15.05	peak	

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624.6100

6

39.56

-6.55

33.01

46.00 -12.99

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	ŝ	156.1000	36.82	-13.62	23.20	43.50	-20.30	peak	
2	1	258.9200	49.67	-13.81	35.86	46.00	-10.14	peak	
3	*	314.2100	49.52	-11.21	38.31	46.00	-7.69	peak	
4		366.5900	42.73	-11.03	31.70	46.00	-14.30	peak	
5		419.9400	40.34	-9.17	31.17	46.00	-14.83	peak	
6	- 3	775.9300	33.89	-3.73	30.16	46.00	-15.84	peak	

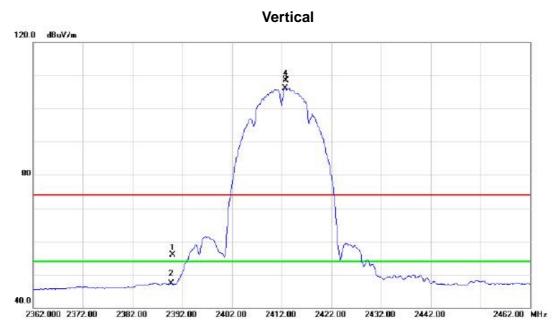
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ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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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		2390.000	24.11	31.88	55.99	74.00	-18.01	peak		
2		2390.000	15.34	31.88	47.22	54.00	-6.78	AVG		
3	*	2412.700	74.19	31.91	106.10	54.00	52.10	AVG	no limit	
4	X	2412.900	76.60	31.91	108.51	74.00	34.51	peak	no milit	

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Vertical

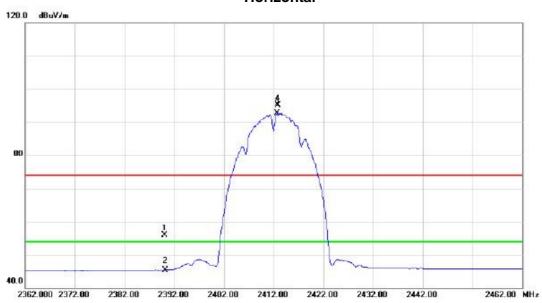


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4824.000	41.56	3.62	45.18	74.00	-28.82	peak		
2	*	4824.000	36.97	3.62	40.59	54.00	-13.41	AVG		

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Horizontal

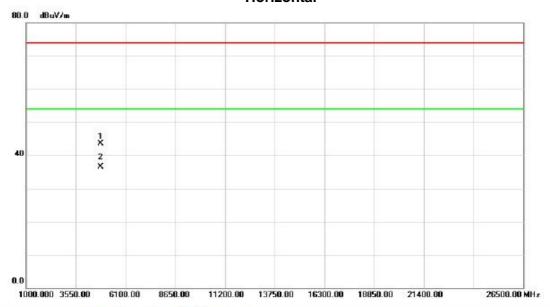


No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	24.02	31.88	55.90	74.00	-18.10	peak		
2		2390.000	13.51	31.88	45.39	54.00	-8.61	AVG		
3	*	2412.700	60.73	31.91	92.64	54.00	38.64	AVG	no milit	
4	Х	2412.900	63,10	31.91	95.01	74.00	21.01	peak	no milit	

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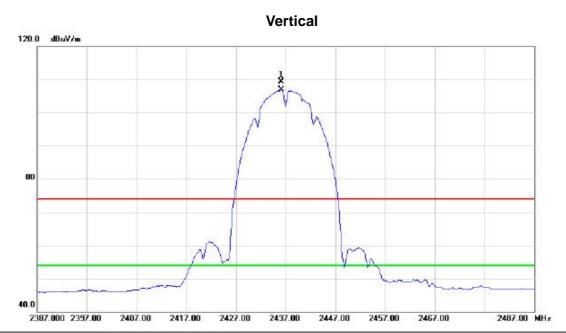
Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4823.950	39.88	3.62	43.50	74.00	-30.50	peak		
2	*	4823.950	32.93	3.62	36.55	54.00	-17.45	AVG		

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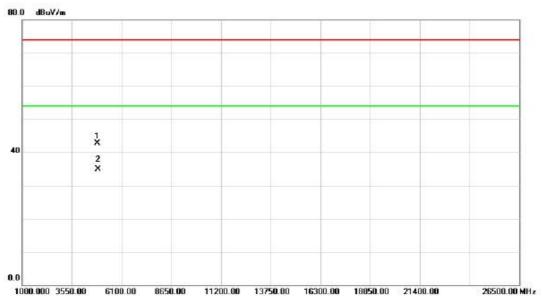


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2436.100	77.27	31.94	109.21	74.00	35.21	peak	no milit	
2	*	2436.100	74.93	31.94	106.87	54.00	52.87	AVG	no milit	

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Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment		Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4874.000	39.01	3.72	42.73	74.00	-31.27	peak		
2	*	4874.000	31.13	3.72	34.85	54.00	-19.15	AVG		

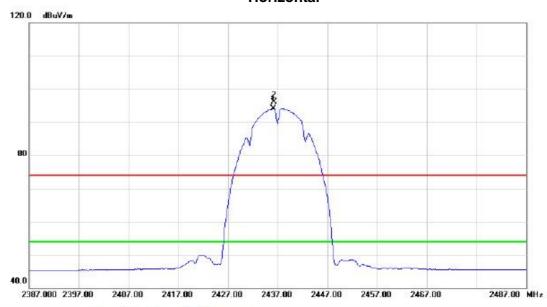
Report No.: BTL-FCCP-1-1412C250 Page 48 of 127



Orthogonal Axis: X

Test Mode: TX B MODE 2437MHz

Horizontal

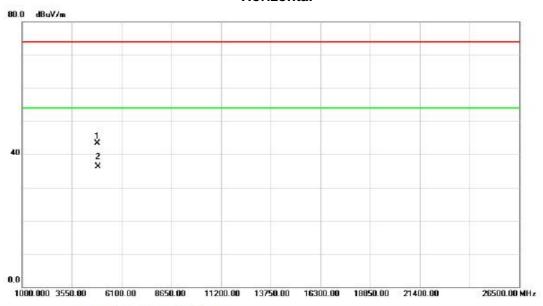


No	. N	Λk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2	436.100	62.23	31.94	94.17	54.00	40.17	AVG	no milit	
2	Х	(2	436.200	64.24	31.94	96.18	74.00	22.18	peak	no milit	

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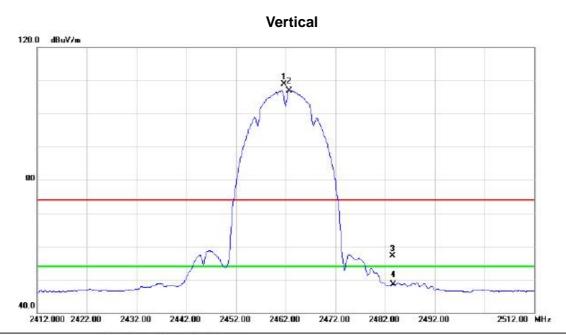
Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4874.000	39.67	3.72	43.39	74.00	-30.61	peak		
2	*	4874.000	32.67	3.72	36.39	54.00	-17.61	AVG		

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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	X	2461.600	76.97	31.98	108.95	74.00	34.95	peak	no milit	
2	*	2462.700	74.96	31.98	106.94	54.00	52.94	AVG	no milit	
3		2483.500	25.03	32.01	57.04	74.00	-16.96	peak		
4		2483.500	16.53	32.01	48.54	54.00	-5.46	AVG		

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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		4923.950	38.49	3.80	42.29	74.00	-31.71	peak		
2	*	4923.950	30.47	3.80	34.27	54.00	-19.73	AVG		

13750.00

16300.00 18850.00 21400.00

26500.00 MHz

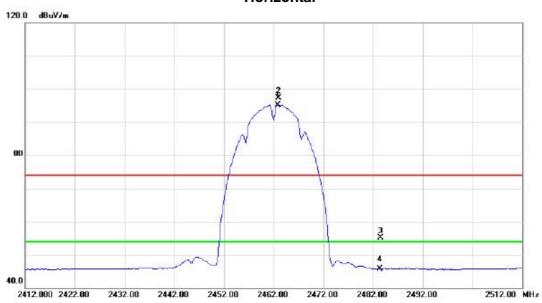
11200.00

1000.000 3550.00

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Horizontal

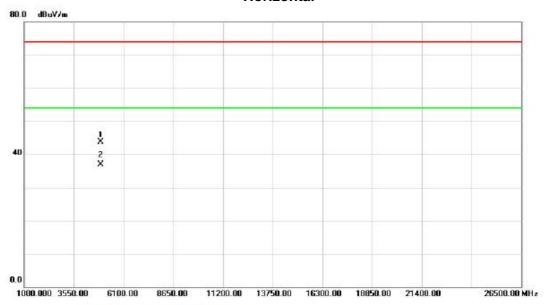


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2462.800	63.20	31.98	95.18	54.00	41.18	AVG	no milit	
2	Х	2463.000	65.31	31.98	97.29	74.00	23.29	peak	no milit	
3		2483.500	23.15	32.01	55.16	74.00	-18.84	peak		
4		2483.500	13.76	32.01	45.77	54.00	-8.23	AVG		

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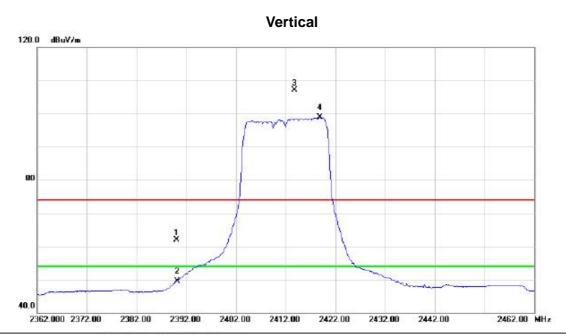
Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4923.950	39.91	3.80	43.71	74.00	-30.29	peak		
2	*	4923.950	33.02	3.80	36.82	54.00	-17.18	AVG		

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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		2390.000	30.12	31.88	62.00	74.00	-12.00	peak		
2		2390.000	17.67	31.88	49.55	54.00	-4.45	AVG		
3	Χ	2413.800	75.27	31.91	107.18	74.00	33.18	peak	no milit	
4	*	2418.900	66.89	31.92	98.81	54.00	44.81	AVG	no milit	

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Vertical

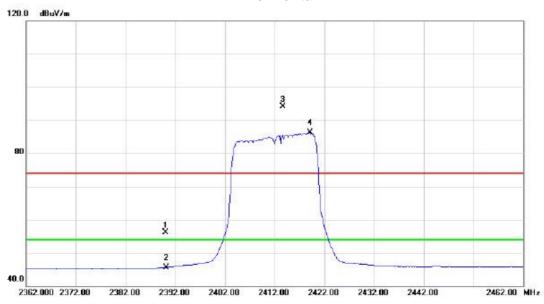


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4823.950	37.82	3.62	41.44	74.00	-32.56	peak	
2	*	4823.950	29.07	3.62	32.69	54.00	-21.31	AVG	

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Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	24.15	31.88	56.03	74.00	-17.97	peak		
2		2390.000	13.65	31.88	45.53	54.00	-8.47	AVG		
3	Χ	2413.700	62.28	31.91	94.19	74.00	20.19	peak	no milit	
4	*	2419.100	54.34	31.92	86.26	54.00	32.26	AVG	no milit	

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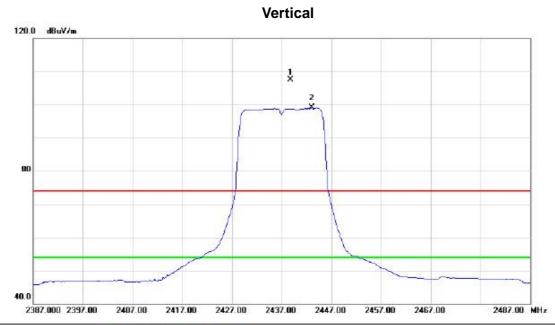
Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4823.960	36.94	3.62	40.56	74.00	-33.44	peak		
2	*	4823.960	27.31	3.62	30.93	54.00	-23.07	AVG		

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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	X	2438.800	75.47	31.94	107.41	74.00	33.41	peak	no milit	
2	*	2443.100	67.08	31.95	99.03	54.00	45.03	AVG	no milit	

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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		4873.950	37.96	3.72	41.68	74.00	-32.32	peak		
2	*	4873.950	29.72	3.72	33.44	54.00	-20.56	AVG		

13750.00

16300.00 18850.00 21400.00

26500.00 MHz

8650.00

11200.00

0.0

1000.000 3550.00

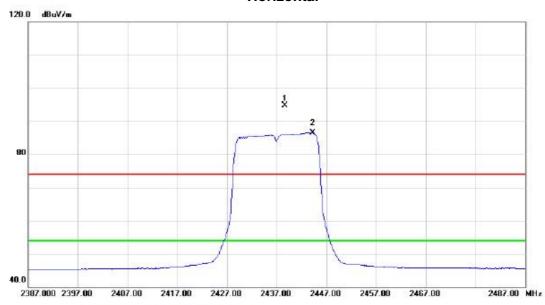
Report No.: BTL-FCCP-1-1412C250 Page 60 of 127



Orthogonal Axis: X

Test Mode: TX G MODE 2437MHz

Horizontal

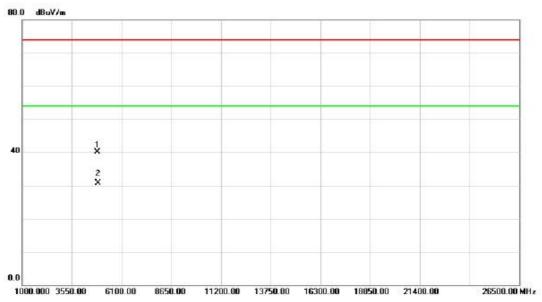


No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2438.700	62.73	31.94	94.67	74.00	20.67	peak	no milit	
2	*	2444.200	54.56	31.96	86.52	54.00	32.52	AVG	no milit	

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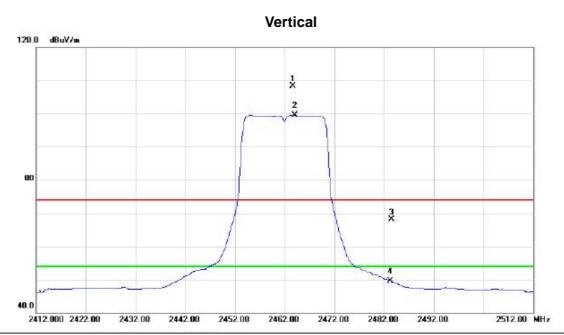
Horizontal



No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4873.920	36.33	3.72	40.05	74.00	-33.95	peak		
2	*	4873.920	26.89	3.72	30.61	54.00	-23.39	AVG		

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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	X	2463.700	76.25	31.98	108.23	74.00	34.23	peak	no milit	
2	*	2464.000	67.52	31.98	99.50	54.00	45.50	AVG	no milit	
3		2483.500	36.18	32.01	68.19	74.00	-5.81	peak		
4		2483.500	17.44	32.01	49.45	54.00	-4.55	AVG		

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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		4923.850	39.03	3.80	42.83	74.00	-31.17	peak		
2	*	4923.850	30.48	3.80	34.28	54.00	-19.72	AVG		

13750.00

16300.00 18850.00 21400.00

26500.00 MHz

8650.00

11200.00

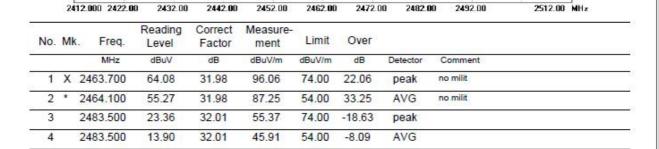
1000.000 3550.00

Report No.: BTL-FCCP-1-1412C250 Page 64 of 127



Horizontal 120.0 dBuV/m

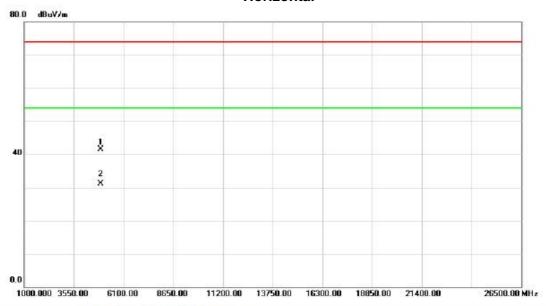
40.0



Report No.: BTL-FCCP-1-1412C250 Page 65 of 127



Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4923.050	37.62	3.80	41.42	74.00	-32.58	peak	
2	*	4923.050	27.39	3.80	31.19	54.00	-22.81	AVG	

Report No.: BTL-FCCP-1-1412C250 Page 66 of 127



No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	36.06	31.88	67.94	74.00	-6.06	peak		
2		2390.000	19.43	31.88	51.31	54.00	-2.69	AVG		
3	Χ	2417.300	76.23	31.91	108.14	74.00	34.14	peak	no milit	
4	*	2418.800	67.13	31.92	99.05	54.00	45.05	AVG	no milit	

Report No.: BTL-FCCP-1-1412C250 Page 67 of 127



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4823.920	38.83	3.62	42.45	74.00	-31.55	peak		
2	*	4823.920	30.82	3.62	34.44	54.00	-19.56	AVG		

13750.00

16300.00 18850.00 21400.00

26500.00 MHz

8650.00

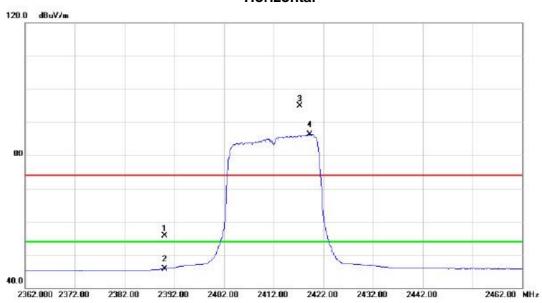
11200.00

1000.000 3550.00

Report No.: BTL-FCCP-1-1412C250 Page 68 of 127



Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	23.78	31.88	55.66	74.00	-18.34	peak		
2		2390.000	13.91	31.88	45.79	54.00	-8.21	AVG		
3	Χ	2417.200	63.04	31.91	94.95	74.00	20.95	peak	no milit	
4	*	2419.200	54.42	31.92	86.34	54.00	32.34	AVG	no milit	

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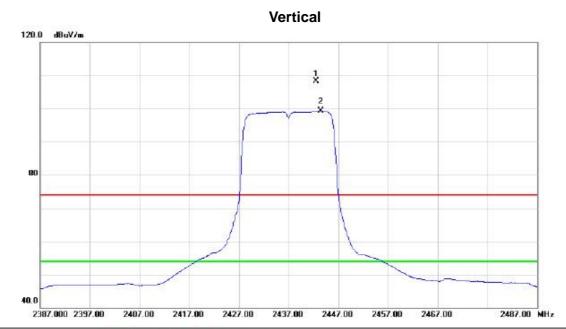
Horizontal



No.	Mk	Court Management	Reading Level	Correct Factor	Measure- ment	Limit	Over	_		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4824.040	37.03	3.62	40.65	74.00	-33.35	peak		
2	*	4824.040	27.25	3.62	30.87	54.00	-23.13	AVG		

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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	X	2442.500	76.35	31.95	108.30	74.00	34.30	peak	no milit	
2	*	2443.500	67.44	31.95	99.39	54.00	45.39	AVG	no milit	

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Vertical

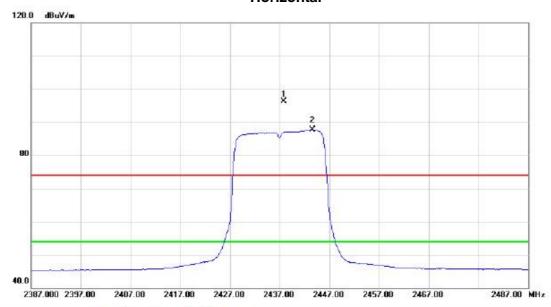


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4823.920	38.56	3.62	42.18	74.00	-31.82	peak		
2	*	4823.920	30.78	3.62	34.40	54.00	-19.60	AVG		

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Horizontal



No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2437.900	64.32	31.94	96.26	74.00	22.26	peak	no milit	
2	*	2443.600	55.73	31.95	87.68	54.00	33.68	AVG	no milit	

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Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4873.960	35.93	3.72	39.65	74.00	-34.35	peak		
2	*	4873.960	26.93	3.72	30.65	54.00	-23.35	AVG		

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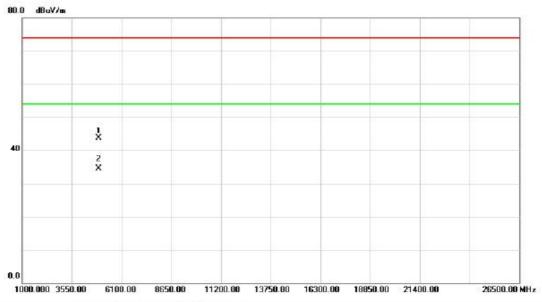
Vertical 120.0 dBuV/m 2 X 40.0 2412.000 2422.00 2432.00 2442.00 2452.00 2462.00 2472.00 2482.00 2492.00 2512.00 MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2454.900	67.21	31.96	99.17	54.00	45.17	AVG	no milit	
2	Х	2467.300	76.42	31.98	108.40	74.00	34.40	peak	no milit	
3		2483.500	36.03	32.01	68.04	74.00	-5.96	peak		
4		2483.500	18.14	32.01	50.15	54.00	-3.85	AVG		

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Vertical

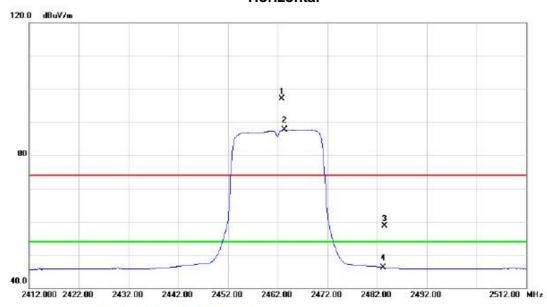


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4923.920	39.95	3.80	43.75	74.00	-30.25	peak		
2	*	4923.920	30.64	3.80	34.44	54.00	-19.56	AVG		

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Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2462.800	65.06	31.98	97.04	74.00	23.04	peak	no milit	
2	*	2463.400	55.74	31.98	87.72	54.00	33.72	AVG	no milit	
3		2483.500	26.75	32.01	58.76	74.00	-15.24	peak		
4		2483.500	14.17	32.01	46.18	54.00	-7.82	AVG		

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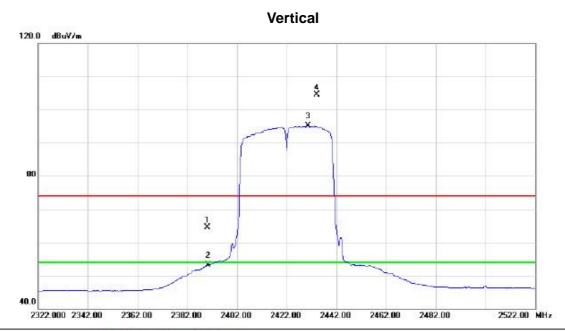
Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4923.920	36.31	3.80	40.11	74.00	-33.89	peak		
2	*	4923.920	27.09	3.80	30.89	54.00	-23.11	AVG		

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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		2390.000	32.54	31.88	64.42	74.00	-9.58	peak		
2		2390.000	21.18	31.88	53.06	54.00	-0.94	AVG		
3	*	2430.600	63.18	31.93	95.11	54.00	41.11	AVG	no milit	
4	X	2434.000	72.62	31.94	104.56	74.00	30.56	peak	no milit	

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26500.00 MHz

Orthogonal Axis: X
Test Mode: TX N-40M MODE 2422MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4843.960	38.09	3.66	41.75	74.00	-32.25	peak		
2	*	4843.960	30.14	3.66	33.80	54.00	-20.20	AVG		

13750.00 16300.00 18850.00 21400.00

8650.00

11200.00

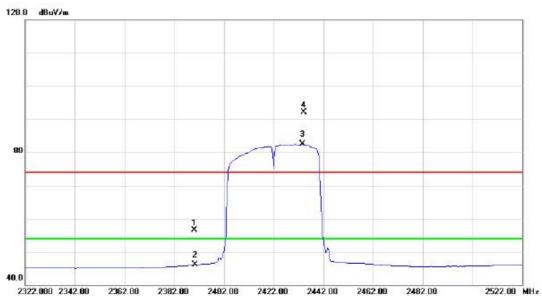
0.0

1000.000 3550.00

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Horizontal



No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		2390.000	24.58	31.88	56.46	74.00	-17.54	peak		
2		2390.000	14.18	31.88	46.06	54.00	-7.94	AVG		
3	*	2433.600	50.48	31.94	82.42	54.00	28.42	AVG	no milit	
4	Х	2434.200	60.23	31.94	92.17	74.00	18.17	peak	no milit	

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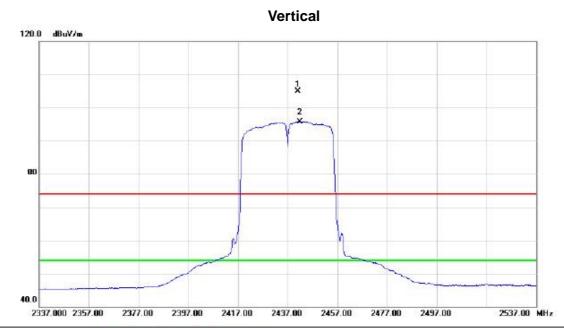
Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4843.825	37.37	3.66	41.03	74.00	-32.97	peak		
2	*	4843.825	26.97	3.66	30.63	54.00	-23.37	AVG		

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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	X	2441.200	72.86	31.95	104.81	74.00	30.81	peak	no milit	
2	*	2441.800	63.79	31.95	95.74	54.00	41.74	AVG	no milit	

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26500.00 MHz

Orthogonal Axis: X
Test Mode: TX N-40M MODE 2437MHz

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4873.900	37.19	3.72	40.91	74.00	-33.09	peak		
2	*	4873.900	29.04	3.72	32.76	54.00	-21.24	AVG		

13750.00 16300.00 18850.00 21400.00

8650.00

11200.00

0.0

1000.000 3550.00

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Horizontal 120.0 dBuV/m 1 x 2 x

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	X	2443.800	61.61	31.96	93.57	74.00	19.57	peak	no milit	
2	*	2443.800	52.07	31.96	84.03	54.00	30.03	AVG	no milit	

2437.00

2457.00

2477.00

2537.00 MHz

40.0

2337.000 2357.00

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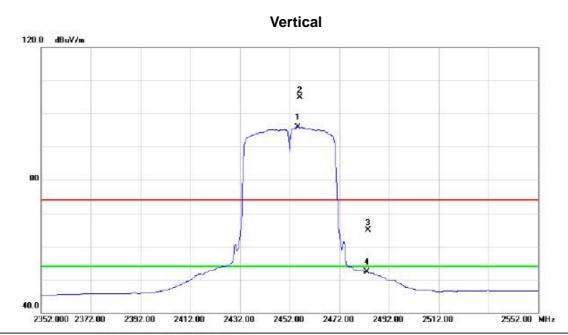
Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4873.990	36.64	3.72	40.36	74.00	-33.64	peak		
2	*	4873.990	26.75	3.72	30.47	54.00	-23.53	AVG		

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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	*	2455.400	63.97	31.96	95.93	54.00	41.93	AVG	no milit	
2	Х	2456.200	72.99	31.96	104.95	74.00	30.95	peak	no milit	
3		2483.500	32.99	32.01	65.00	74.00	-9.00	peak		
4		2483.500	20.20	32.01	52.21	54.00	-1.79	AVG		

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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		4903.960	36.26	3.77	40.03	74.00	-33.97	peak		
2	*	4903.960	28.49	3.77	32.26	54.00	-21.74	AVG		

13750.00

16300.00 18850.00 21400.00

26500.00 MHz

8650.00

11200.00

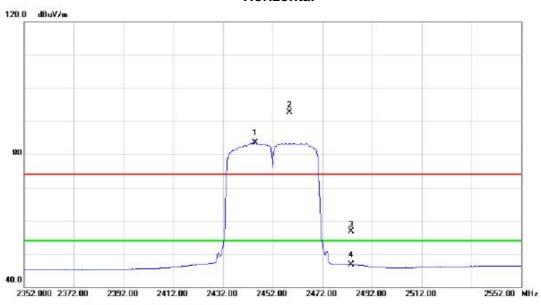
0.0

1000.000 3550.00

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Horizontal

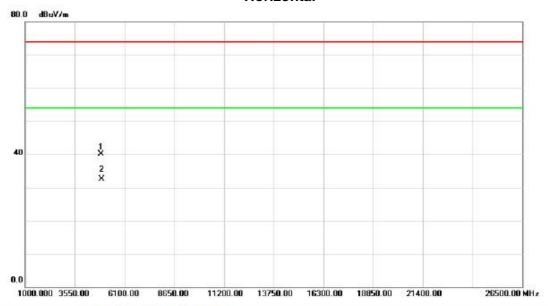


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2445.000	51.48	31.96	83.44	54.00	29.44	AVG	no milit	
2	Х	2458.800	60.73	31.98	92.71	74.00	18.71	peak	no milit	
3		2483.500	24.62	32.01	56.63	74.00	-17.37	peak		
4		2483.500	14.65	32.01	46.66	54.00	-7.34	AVG		

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Horizontal



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		4904.160	36.25	3.77	40.02	74.00	-33.98	peak		
2	*	4904.160	28.79	3.77	32.56	54.00	-21.44	AVG		

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ATTACHMENT E - BANDWIDTH

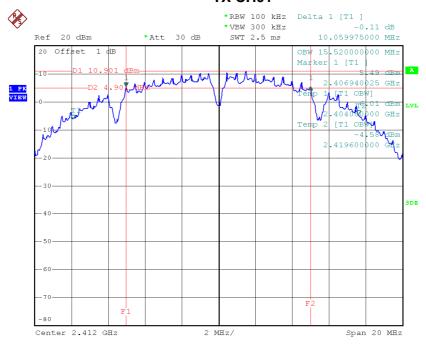
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Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.06	15.52	500	Complies
2437	10.10	15.44	500	Complies
2462	10.06	15.40	500	Complies

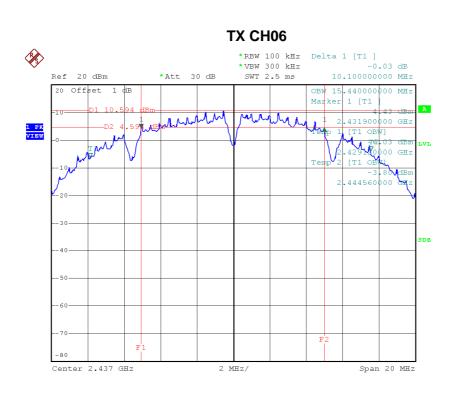
TX CH01



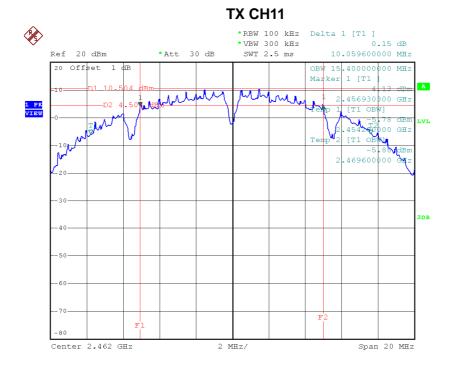
Date: 13.JAN.2015 11:05:38

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Date: 13.JAN.2015 11:07:24



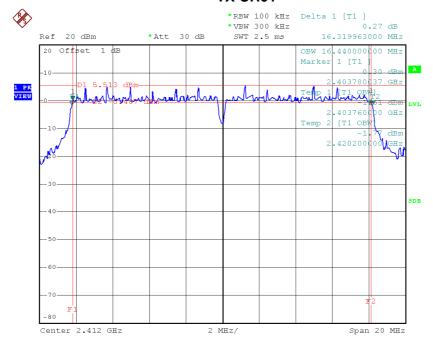
Date: 13.JAN.2015 11:08:10



Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.32	16.44	500	Complies
2437	16.42	16.48	500	Complies
2462	16.64	16.52	500	Complies

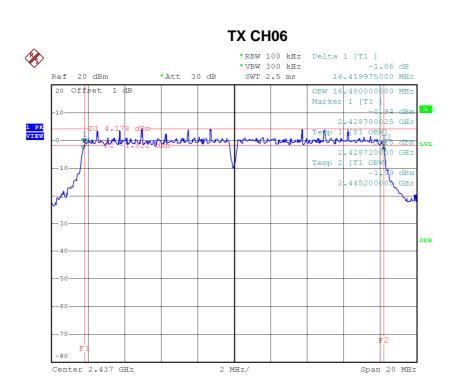
TX CH01



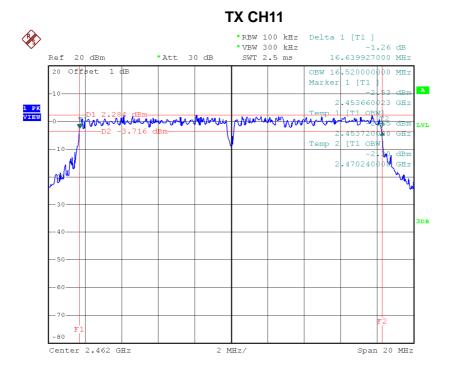
Date: 13.JAN.2015 11:14:39

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Date: 13.JAN.2015 11:15:41



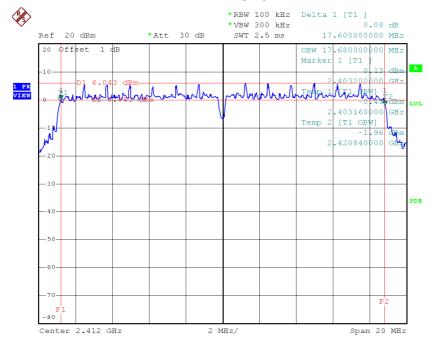
Date: 13.JAN.2015 11:16:35



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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.60	17.68	500	Complies
2437	17.50	17.64	500	Complies
2462	17.38	17.64	500	Complies

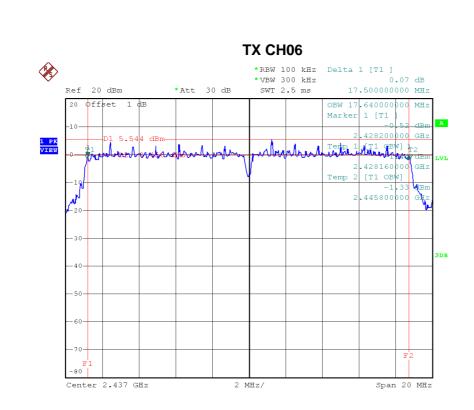
TX CH01



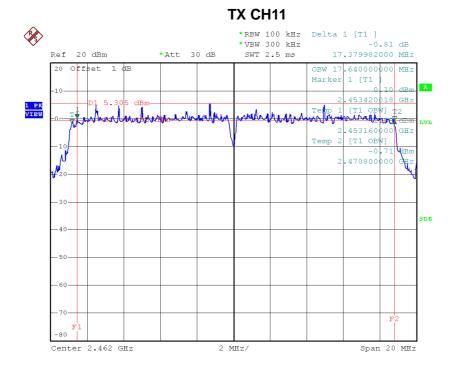
Date: 13.JAN.2015 11:21:34

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Date: 13.JAN.2015 11:22:34



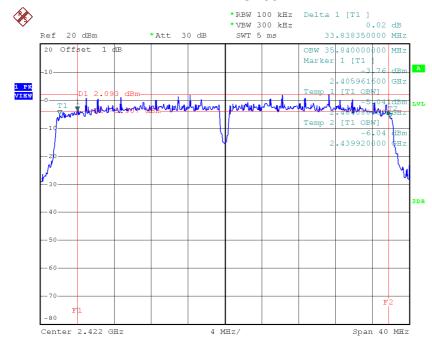
Date: 13.JAN.2015 11:23:26



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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	33.84	35.84	500	Complies
2437	34.16	35.84	500	Complies
2452	35.16	35.84	500	Complies

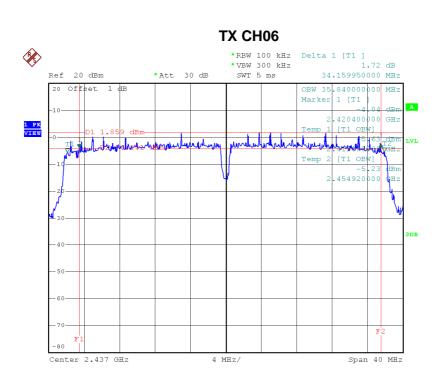
TX CH03



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Date: 13.JAN.2015 12:57:05



ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

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Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.94	0.12	30.00	1.00	Complies
2437	20.97	0.13	30.00	1.00	Complies
2462	20.60	0.11	30.00	1.00	Complies

Test Mode:TX G Mode_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.90	0.25	30.00	1.00	Complies
2437	23.65	0.23	30.00	1.00	Complies
2462	23.84	0.24	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.99	0.25	30.00	1.00	Complies
2437	23.95	0.25	30.00	1.00	Complies
2462	23.97	0.25	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	23.81	0.24	30.00	1.00	Complies
2437	23.90	0.25	30.00	1.00	Complies
2452	23.85	0.24	30.00	1.00	Complies

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ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

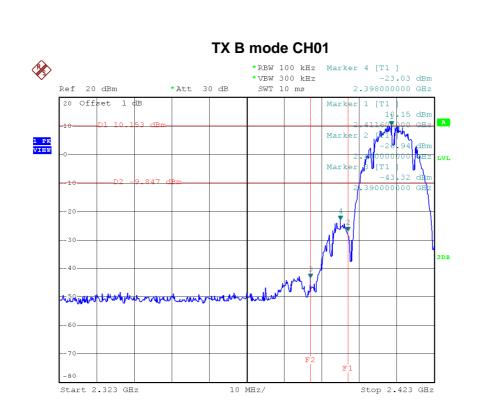
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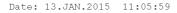


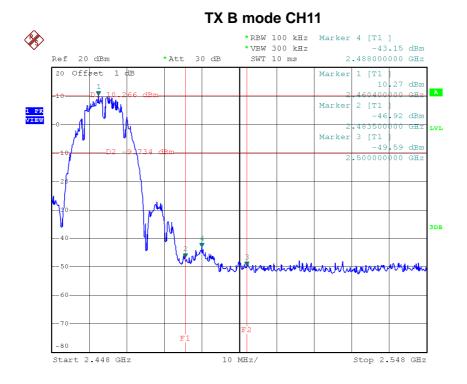
est Mode :	TX B Mode	

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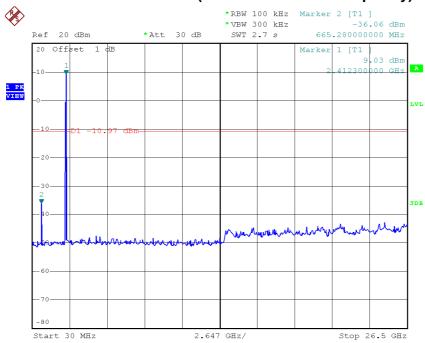


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Date: 13.JAN.2015 11:08:31

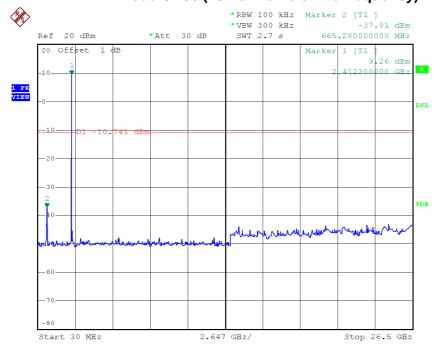






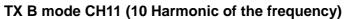
Date: 13.JAN.2015 11:05:52

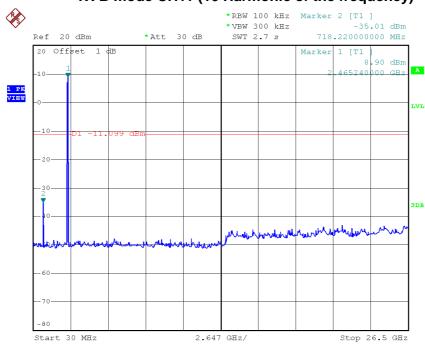
TX B mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 11:07:38







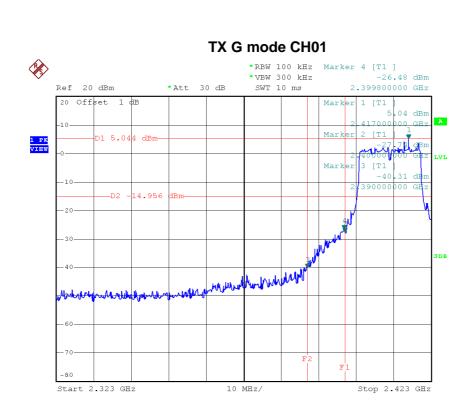
Date: 13.JAN.2015 11:08:24



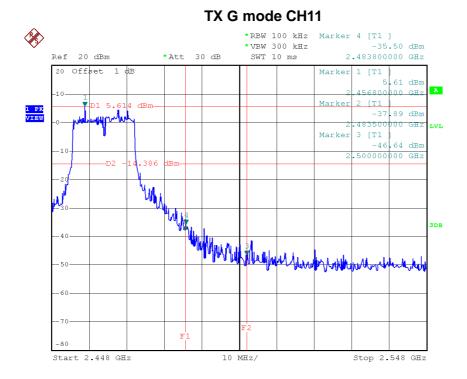
Test Mode :	TX G Mode

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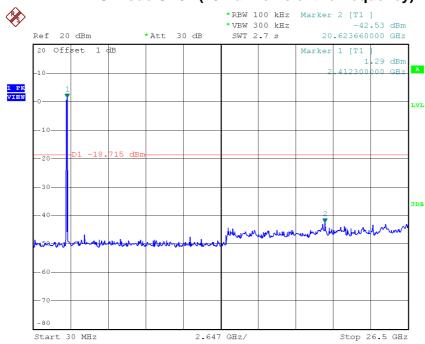
Date: 13.JAN.2015 11:15:01



Date: 13.JAN.2015 11:17:00

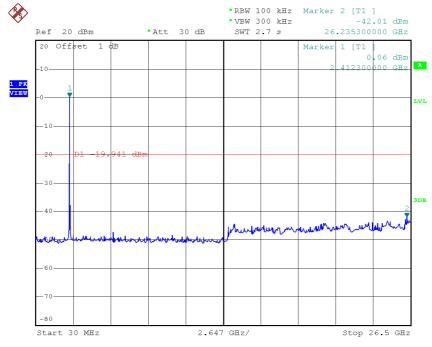






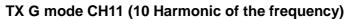
Date: 13.JAN.2015 11:14:53

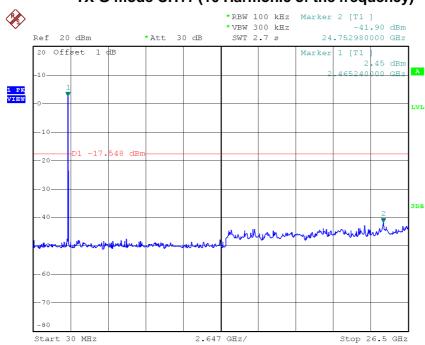
TX G mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 11:15:55







Date: 13.JAN.2015 11:16:52

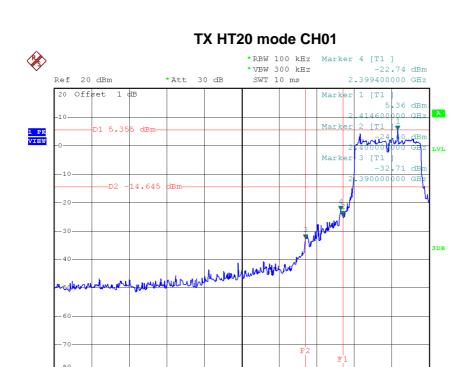
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Test Mode:	TX N-20M Mode

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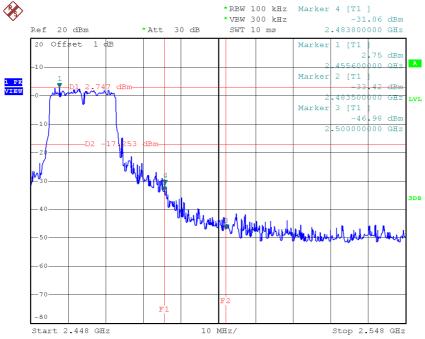
Date: 13.JAN.2015 11:21:56

Start 2.323 GHz

TX HT20 mode CH11

10 MHz/

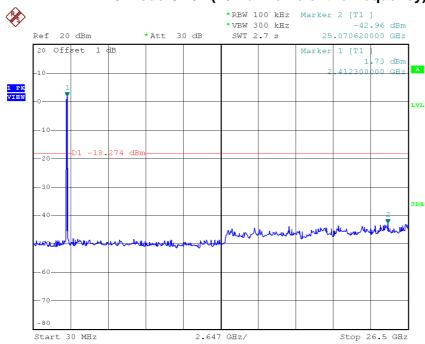
Stop 2.423 GHz



Date: 13.JAN.2015 11:24:05

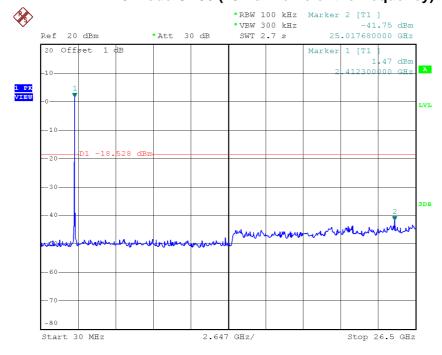






Date: 13.JAN.2015 11:21:48

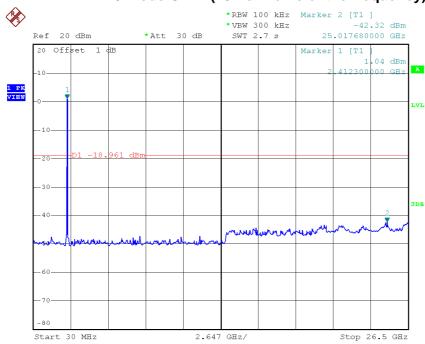
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 11:22:48



TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 13.JAN.2015 11:23:56

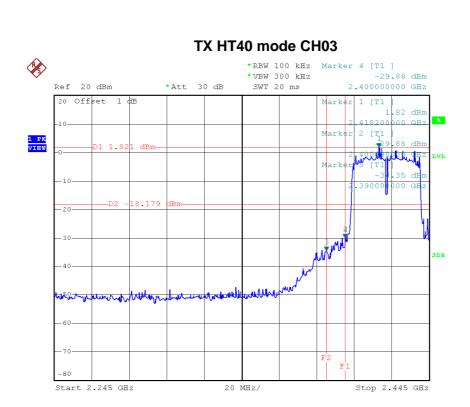
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Test Mode :	TX N-40M Mode
	<u> </u>

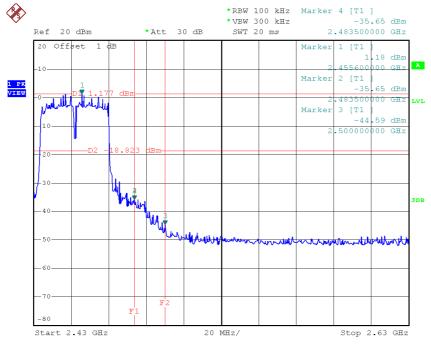
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Date: 13.JAN.2015 11:25:10

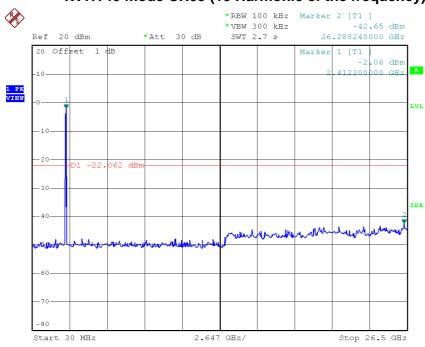
TX HT40 mode CH09



Date: 13.JAN.2015 12:57:28

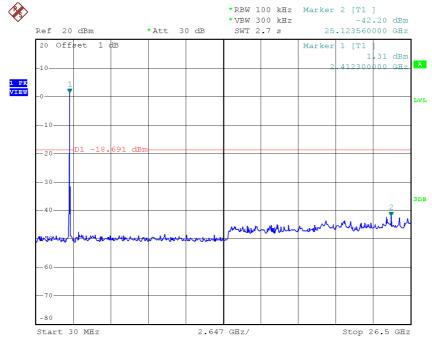






Date: 13.JAN.2015 11:25:02

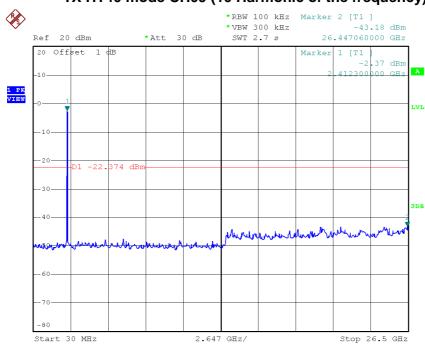
TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 13.JAN.2015 12:56:21







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ATTACHMENT H - POWER SPECTRAL DENSITY				

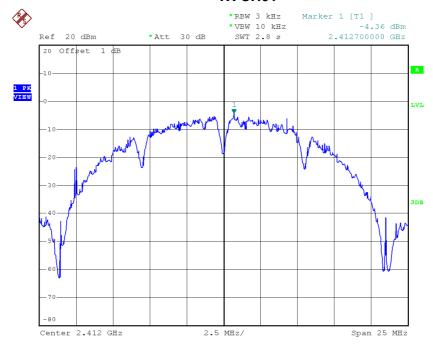
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Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-4.36	0.37	8.00	Complies
2437	-5.32	0.29	8.00	Complies
2462	-3.42	0.45	8.00	Complies

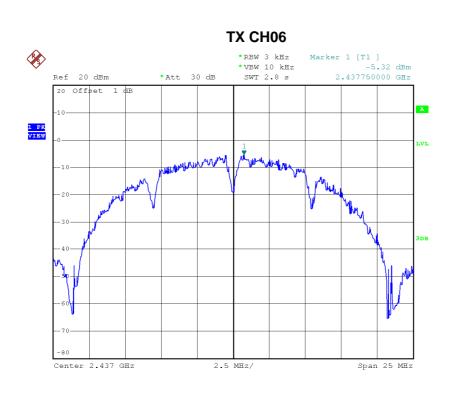
TX CH01



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Date: 13.JAN.2015 11:07:47

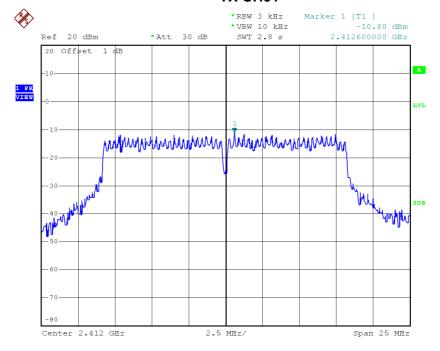
Date: 13.JAN.2015 11:14:08



Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.80	0.08	8.00	Complies
2437	-11.87	0.07	8.00	Complies
2462	-10.72	0.08	8.00	Complies

TX CH01

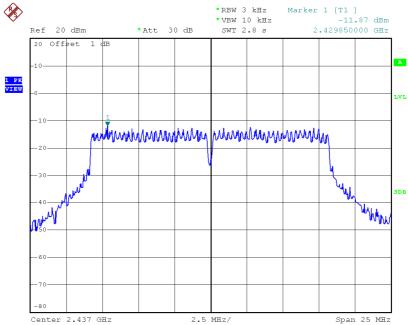


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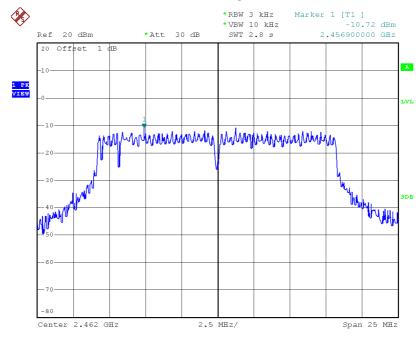






Date: 13.JAN.2015 11:16:12

TX CH11



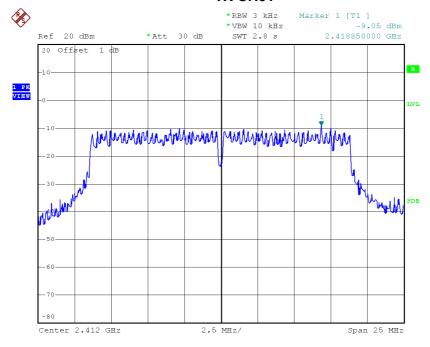
Date: 13.JAN.2015 11:17:52



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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.05	0.12	8.00	Complies
2437	-10.75	0.08	8.00	Complies
2462	-10.47	0.09	8.00	Complies

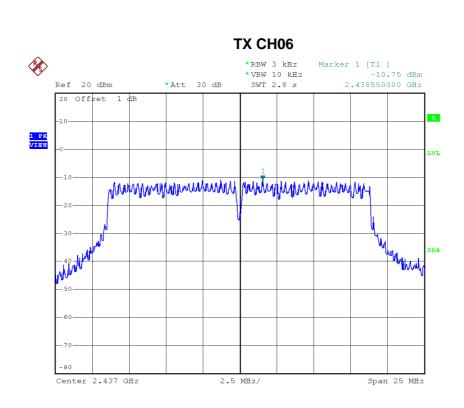
TX CH01



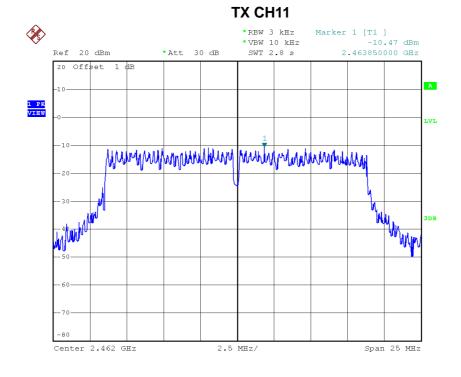
Date: 13.JAN.2015 11:22:14

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Date: 13.JAN.2015 11:23:06



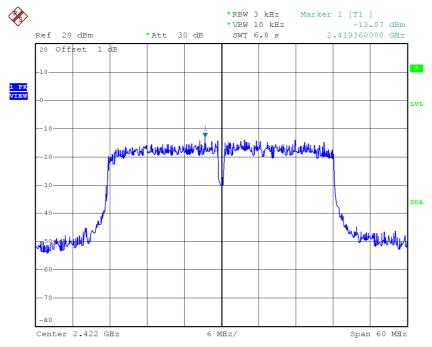
Date: 13.JAN.2015 11:24:22



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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-13.07	0.05	8.00	Complies
2437	-13.30	0.05	8.00	Complies
2452	-14.02	0.04	8.00	Complies

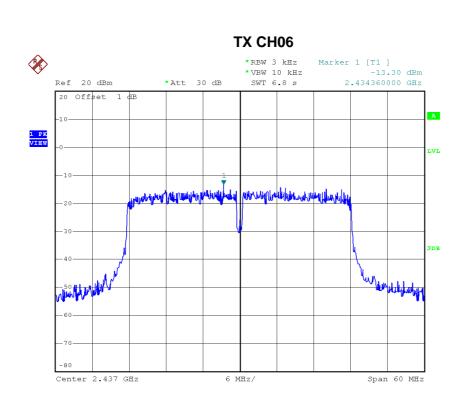
TX CH03



Date: 13.JAN.2015 11:25:30

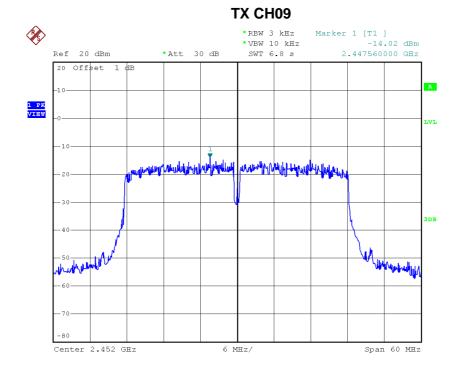
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Date: 13.JAN.2015 12:56:42

Date: 13.JAN.2015 12:57:48



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