



Change

FCC Radio Test Report

FCC ID: TVE-24100045

This report concerns (che	eck	one): ⊠Original Grant
Project No. Equipment Model Name Series Model	:	1611C131 Wireless Access Point FAP-C24JE FORTIAP-C24JExxxxxx,FortiAP C24JEXXXXXX, FAP-C24JExxxxxx(where "x" can be used as "A-Z", or "0-9", or "-", or blank for software changes or marketing purposes only)
Applicant Address	:	Fortinet, Inc. 899 Kifer Road, Sunnyvale, CA 94086 USA
Date of Receipt Date of Test Issued Date Tested by	:	Nov. 18, 2016 Nov. 18, 2016 ~ Feb. 20, 2017 Feb. 21, 2017 BTL Inc.
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I imitation

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-1-1611C131	Original Issue.	Feb. 21, 2017

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1. CERTIFICATION

Equipment : Wireless Access Point

Brand Name: FORTINET Model Name: FAP-C24JE

Series Model: FORTIAP-C24JExxxxxx,FortiAP C24JEXXXXXX, FAP-C24JExxxxxx(where "x"

can be used as "A-Z", or "0-9", or "-", or blank for software changes or

marketing purposes only)

Applicant: Fortinet, Inc.

Manufacturer: Shenzhen Netcore Industrial Ltd.

Address : 4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan,

Shenzhen, China.

Factory : Dongguan City Netcore Network Technology Co.,Ltd.

Address : No.10-1, Sankeng Road, Qinghutou, Tangxia Town, Dongguan City

Date of Test : Nov. 18, 2016 ~ Feb. 20, 2017

Test Sample: Engineering Sample

Standard(s) : FCC Part15, Subpart C:(15.247) / ANSI C63.10-2013

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-1-1611C131) 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	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		
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS		

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

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

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9KHz~30MHz	V	3.79
		9KHz~30MHz	Н	3.57
		30MHz ~ 200MHz	V	3.82
	DG-CB03 CISPR	30MHz ~ 200MHz	Ι	3.78
DG CB03		200MHz ~ 1,000MHz	٧	4.10
DG-CB03		200MHz ~ 1,000MHz	Ι	4.06
		1GHz~18GHz	٧	3.12
		1GHz~18GHz	Ι	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	Η	4.14

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

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Access Point			
Brand Name	FORTINET			
Model Name	FAP-C24JE			
Series Model	FORTIAP-C24JExxxxxx,F FAP-C24JExxxxxx	FortiAP C24JEXXXXXX,		
Model Difference	Where "x" can be used as software changes or mark	s "A-Z", or "0-9", or "-", or blank for keting purposes only.		
	Operation Frequency	2412~2462 MHz		
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM		
Product Description	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps		
	Output Power (Max.)	802.11b: 18.96dBm 802.11g: 25.92dBm 802.11n(20MHz): 24.08dBm 802.11n(40MHz): 23.68dBm		
Power Source	1# DC voltage supplied from AC/DC adapter. (support unit) 2# PoE supplied.			
Power Rating	1# EUT I/P: 12Vdc 1A 2# 48Vdc 0.32A(PoE)			

Note

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

2. Channel List:

	CH		for 802.11b, - CH09 for			Hz)	
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		

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3. Table for Filed Antenna

Ant.	Brand / Mfr	Model Name	Antenna Type	Connector	Gain (dBi)
1	ACX	AT3216-T2R4PAAT/LF	Chip	N/A	2
2	ACX	AT3216-T2R4PAAT/LF	Chip	N/A	2

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

4.

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





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	

For Band Edge 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	

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6dB Spectrum Bandwidth		
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	

Maximum Conducted Output Power		
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	

Power Spectral Density		
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 (13Mbps) 802.11n HT40 mode : BPSK (27Mbps)

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

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

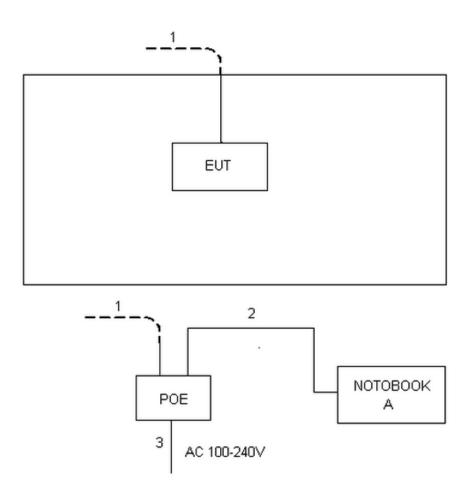
Test software version	MPTOOL		
Frequency (MHz)	2412	2437	2462
802.11b	43,40	46,42	47,43
802.11g	37,36	38,37	39,37
802.11n (20MHz)	35,34	36,35	37,37
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	35,34	35,35	36,36

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3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
Α	NOTEBOOK	Dell 745	DCSM	DOC	G7K832X

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45 Cable
2	NO	NO	1m	RJ45 Cable
3	NO	NO	1.5m	AC Cable

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Fraguency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.50	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

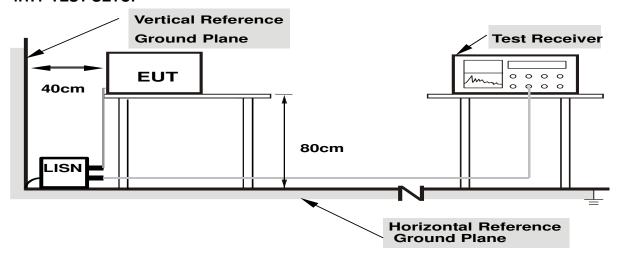
No deviation

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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 placed on the test table and programmed in normal function.

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

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)		
	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

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Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	1MHz / 3MHz for Peak,
(Emission in restricted band)	1MHz / 1/T 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

4.2.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter 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 measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-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 0.8m or 1.5m; 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. 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. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

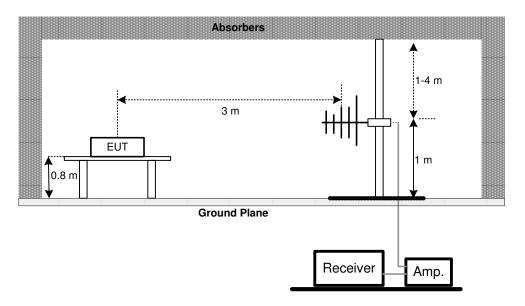
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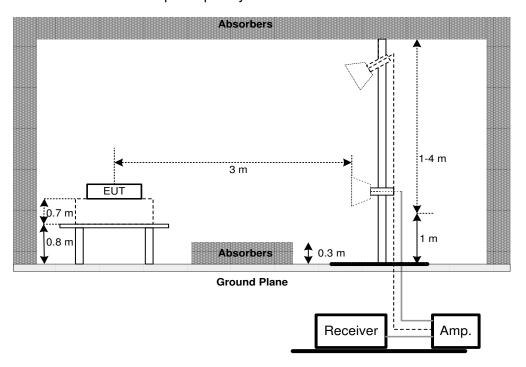


4.2.4 TEST SETUP

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



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

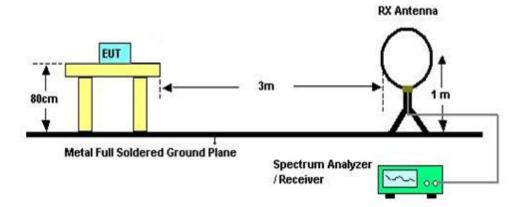


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(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9 KHZ TO 30 MHZ)

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 (30 MHZ 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) Resul					
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 was programmed to be in continuously transmitting mode.

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 and FCC KDB 662911 D01 Multiple Transmitter Output.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 Ower weter

6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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 device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that 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.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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) Resul					
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 was programmed to be in continuously transmitting mode.

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	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017		
2	LISN	EMCO	3816/2	52765	Mar. 27, 2017		
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 27, 2017		
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 27, 2017		
5	Cable	emci	RG223(9KHz-30 MHz)(5m)	N/A	Mar. 10, 2017		
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. 27, 2017		
2	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017		
3	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017		
4	Cable	emci	LMR-400(30MHz- 1GHz)(8m+5m)	N/A	Jun. 27, 2017		
5	Controller	CT	SC100	N/A	N/A		
6	Controller	MF	MF-7802	MF780208416	N/A		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
8	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 27, 2017		
9	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017		
10	Amplifier	Agilent	8449B	3008A02274	Mar. 10, 2017		
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017		
12	Antenna	EM	EM-6876-1	230	Jul. 08, 2017		
13	Controller	CT	SC100	N/A	N/A		
14	Controller	MF	MF-7802	MF780208416	N/A		
15	Cable	emci	EMC104-SM-SM- 12000(12m)	N/A	Jul. 06, 2017		

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	6dB Bandwidth Measurement								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017				

	Peak Output Power Measurement									
Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated u										
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 27, 2017					
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 27, 2017					

Antenna Conducted Spurious Emission Measurement									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017				

Power Spectral Density Measurement									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Spectrum Analyzer	R&S	FSP40	100185	Sep. 04, 2017				

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







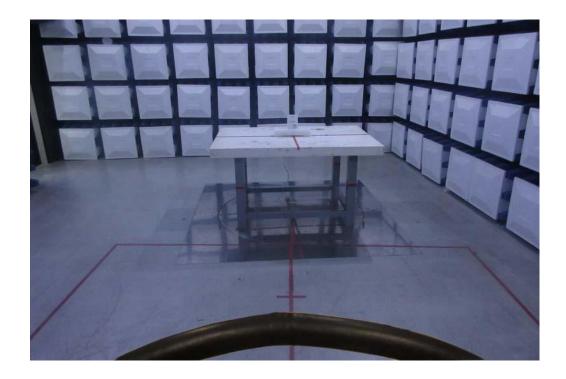
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Radiated Measurement Photos

9kHz to 30MHz





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Radiated Measurement Photos

30MHz to 1000MHz





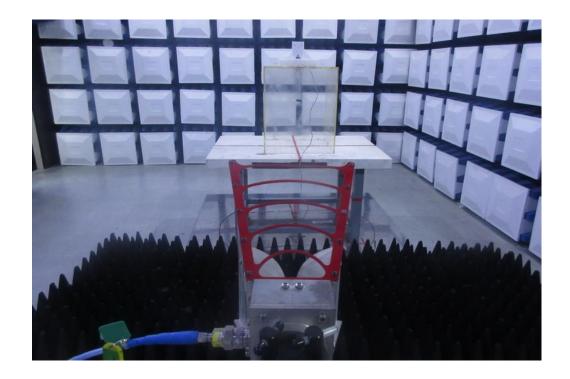
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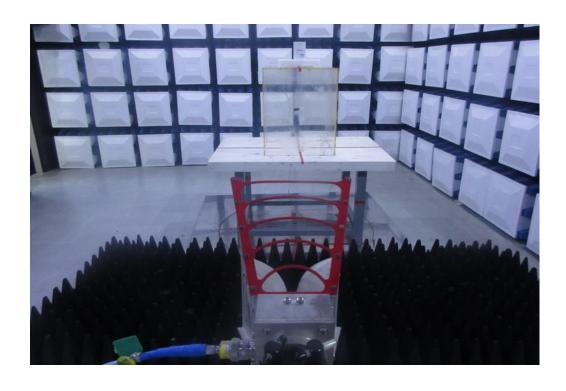




Radiated Measurement Photos

Above 1000MHz





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ATTACHMENT A - CONDUCTED EMISSION

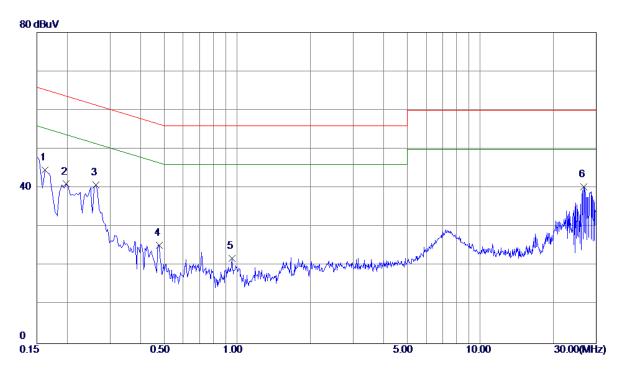
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Test Mode: TX MODE.

Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1620	35. 14	9. 52	44. 66	65. 36	-20. 70	Peak	
2	0. 1980	31. 51	9. 53	41. 04	63. 69	-22. 65	Peak	
3	0. 2620	31. 33	9. 53	40.86	61. 37	-20. 51	Peak	
4	0.4780	15. 66	9. 62	25. 28	56. 37	-31. 09	Peak	
5	0. 9500	12. 10	9. 76	21. 86	56. 00	-34. 14	Peak	
6 *	26. 6340	29. 95	10. 39	40. 34	60.00	-19. 66	Peak	

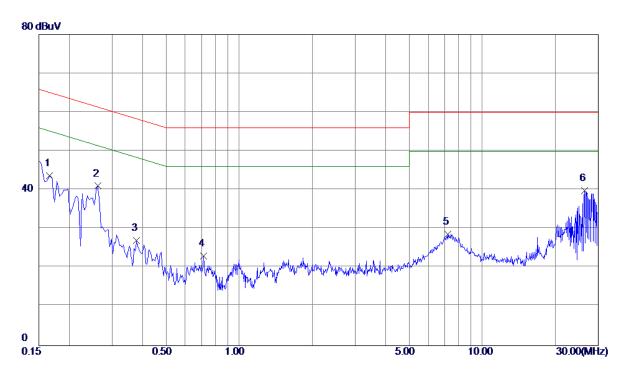
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Test Mode: TX MODE.

Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1660	34. 25	9. 44	43. 69	65. 16	-21. 47	Peak	
2	0. 2620	31. 51	9. 53	41.04	61. 37	-20. 33	Peak	
3	0. 3780	17. 58	9. 48	27. 06	58. 32	-31. 26	Peak	
4	0.7140	13. 56	9. 46	23. 02	56.00	-32. 98	Peak	
5	7. 2100	18. 67	9. 98	28. 65	60.00	-31. 35	Peak	
6 *	26. 4020	29. 22	10. 55	39. 77	60. 00	-20. 23	Peak	

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ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)

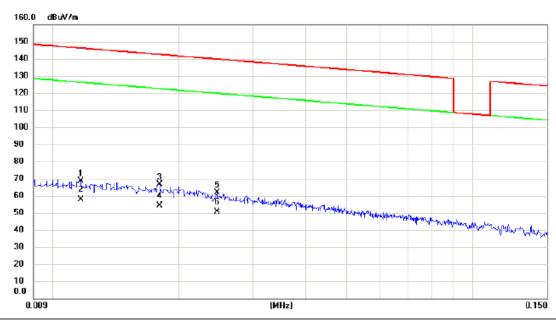
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Test Mode: TX MODE

Ant 0°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.012	44.76	24.02	68.78	146.24	-77.46	peak	
2	0.012	33.60	24.02	57.62	126.24	-68.62	AVG	
3	0.018	42.85	23.64	66.49	142.50	-76.01	peak	
4 *	0.018	30.51	23.64	54.15	122.50	-68.35	AVG	
5	0.025	38.80	22.95	61.75	139.79	-78.04	peak	
6	0.025	27.50	22.95	50.45	119.79	-69.34	AVG	

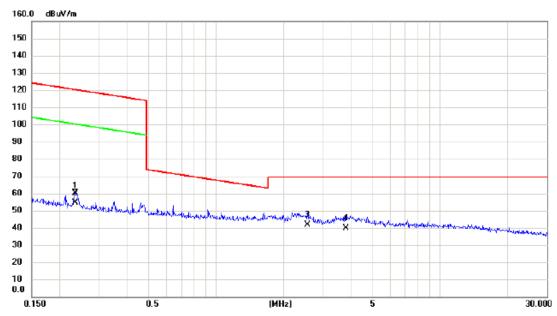
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Test Mode: TX MODE

Ant 0°



No. Mk.	Freq.	Reading Level		Measure- ment	- Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.235	41.51	18.66	60.17	120.17	-60.00	peak	
2	0.235	35.90	18.66	54.56	100.17	-45.61	AVG	
3 *	2.567	24.50	17.18	41.68	69.54	-27.86	QP	
4	3.799	21.40	18.33	39.73	69.54	-29.81	QP	

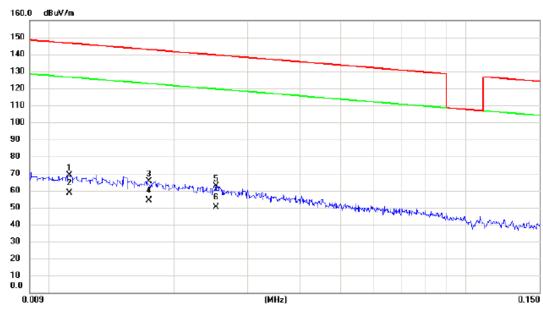
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Test Mode: TX MODE

Ant 90°



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.011	45.04	24.05	69.09	146.62	-77.53	peak	
2 *	0.011	34.70	24.05	58.75	126.62	-67.87	AVG	
3	0.017	41.89	23.68	65.57	142.79	-77.22	peak	
4	0.017	30.40	23.68	54.08	122.79	-68.71	AVG	
5	0.025	39.55	22.88	62.43	139.58	-77.15	peak	
6	0.025	27.30	22.88	50.18	119.58	-69.40	AVG	

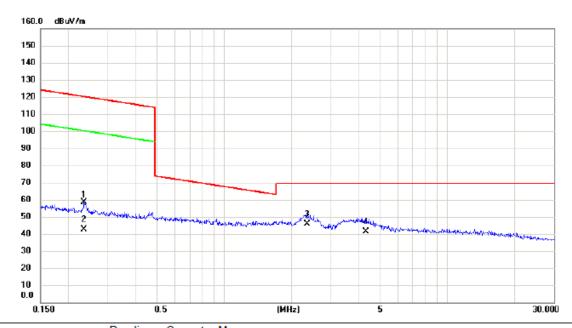
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Test Mode: TX MODE

Ant 90°



No. Mk.	Freq.	_	Correct Factor	Measure ment		Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.235	40.04	18.66	58.70	120.17	-61.47	peak	
2	0.235	23.80	18.66	42.46	100.17	-57.71	AVG	
3 *	2.346	28.50	17.46	45.96	69.54	-23.58	QP	
4	4.315	23.50	18.10	41.60	69.54	-27.94	QP	

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

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6

624.6100 40.09

-5. 64

34. 45

46.00

-11. 55

Peak



Test Mode: TX B MODE CHANNEL 01 **Vertical** 80 dBuV/m 40 5 3 0 30.00 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 (MHz) Correct Reading Measure Limit No. Freq. Margin Leve1 Factor ment MHzdBuV/m dBuV/mdBuV/m dB Detector Comment dΒ 1 * 45. 5200 48. 66 -12.6036.06 40.00 -3.94Peak 2 125.0600 43.01 -12.9030.11 43.50 -13.39Peak 3 250. 1900 39. 13 -14.2024. 93 46.00 -21.07Peak 4 299.6600 38.84 -10.2028.64 46.00 -17.36Peak 5 500. 4500 40. 57 30.90 46.00 -15. 10 -9. 67 Peak

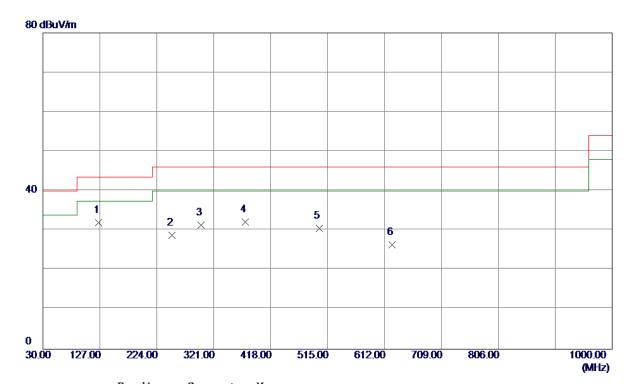
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Test Mode: TX B MODE CHANNEL 01

Horizontal

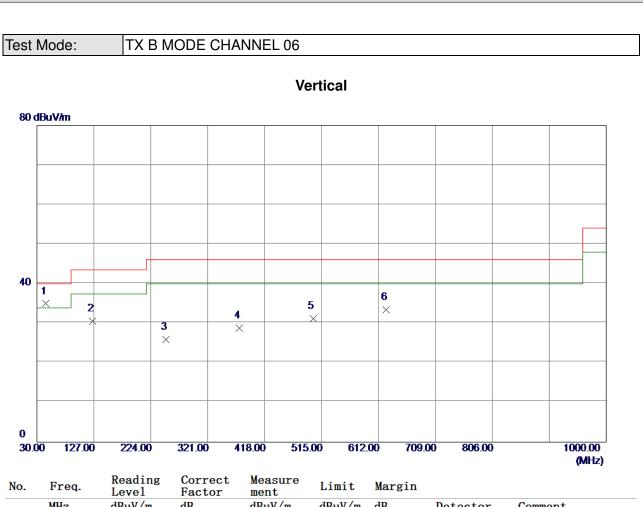


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	125.0600	44. 94	-12. 90	32. 04	43. 50	-11. 46	Peak	
2	250. 1900	43. 03	-14. 20	28. 83	46.00	-17. 17	Peak	
3	299. 6600	41.62	-10. 20	31. 42	46.00	-14. 58	Peak	
4	375. 3200	41. 57	−9. 48	32. 09	46.00	-13. 91	Peak	
5	500. 4500	40. 28	-9. 67	30. 61	46.00	-15. 39	Peak	
6	624. 6100	32. 03	-5. 64	26. 39	46.00	-19. 61	Peak	

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No.	Freq.	Leve1	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	45. 5200	47. 56	-12. 60	34. 96	40.00	-5. 04	Peak	
2	125. 0600	43. 46	-12. 90	30. 56	43. 50	-12. 94	Peak	
3	250. 1900	40. 12	-14. 20	25. 92	46.00	-20. 08	Peak	
4	375. 3200	38. 24	-9. 48	28. 76	46.00	-17. 24	Peak	
5	500. 4500	40. 92	-9. 67	31. 25	46.00	−14. 75	Peak	
6	624. 6100	39. 11	-5. 64	33. 47	46.00	-12. 53	Peak	
6	624. 6100	39. 11	-5. 64	33. 47	46. 00	-12. 53	Peak	

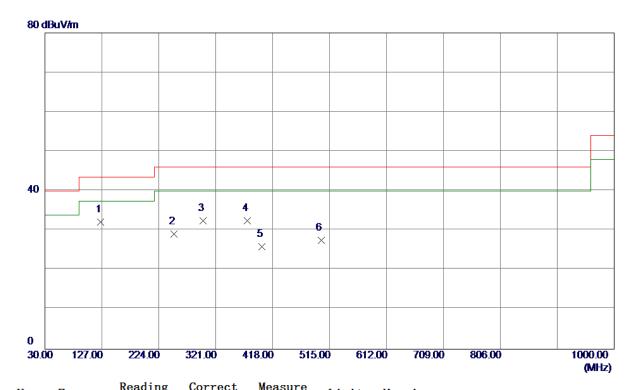
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Test Mode: TX B MODE CHANNEL 06

Horizontal

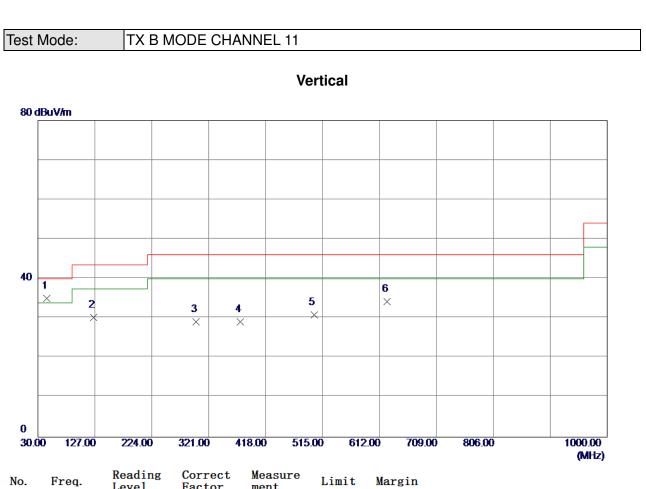


No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	125. 0600	45. 03	-12. 90	32. 13	43. 50	-11. 37	Peak	
2	250. 1900	43. 35	-14. 20	29. 15	46.00	-16. 85	Peak	
3	299. 6600	42. 63	-10. 20	32. 43	46.00	-13. 57	Peak	
4	375. 3200	42. 02	−9. 48	32. 54	46.00	−13. 46	Peak	
5	399. 5700	33. 69	-7. 81	25. 88	46.00	-20. 12	Peak	
6	500. 4500	37. 20	-9. 67	27. 53	46.00	-18. 47	Peak	

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No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	45. 5200	47. 66	-12. 60	35. 06	40.00	-4. 94	Peak	
2	125. 0600	43. 16	-12. 90	30. 26	43. 50	-13. 24	Peak	
3	299. 6600	39. 37	-10. 20	29. 17	46.00	-16. 83	Peak	
4	375. 3200	38. 56	-9. 48	29. 08	46.00	-16. 92	Peak	
5	500. 4500	40. 55	-9. 67	30. 88	46.00	-15. 12	Peak	
6	624 6100	39 85	-5 64	34 21	46 00	-11 79	Peak	

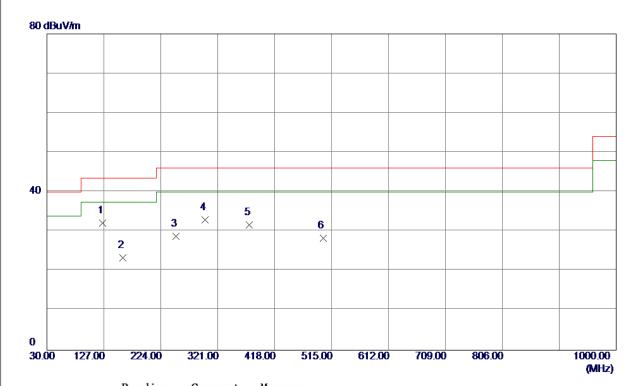
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Test Mode: TX B MODE CHANNEL 11

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	125. 0600	45. 03	-12. 90	32. 13	43. 50	-11. 37	Peak	
2	159. 0100	35. 61	-12. 23	23. 38	43. 50	-20. 12	Peak	
3	250. 1900	42. 95	-14. 20	28. 75	46.00	-17. 25	Peak	
4	299. 6600	43. 15	-10. 20	32. 95	46.00	-13. 05	Peak	
5	375. 3200	41. 23	-9. 48	31. 75	46.00	-14. 25	Peak	
6	500. 4500	38. 05	-9. 67	28. 38	46.00	-17. 62	Peak	

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ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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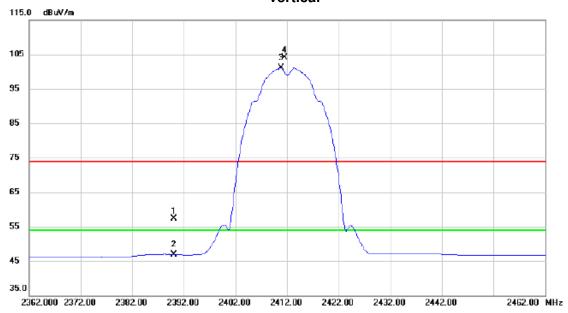




Orthogonal Axis: X

Test Mode: TX B MODE 2412MHz

Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.28	33.01	57.29	74.00	-16.71	peak	
2		2390.000	13.94	33.01	46.95	54.00	-7.05	AVG	
3	*	2410.800	68.05	33.09	101.14	54.00	47.14	AVG	No Limit
4	Х	2411.600	71.03	33.10	104.13	74.00	30.13	peak	No Limit

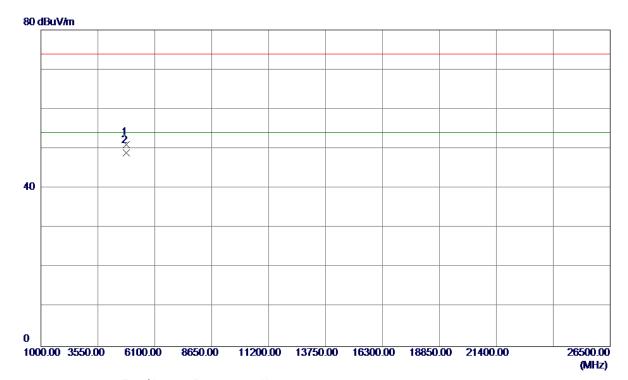
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Orthogonal Axis:	X
Test Mode:	TX B MODE 2412MHz

Vertical



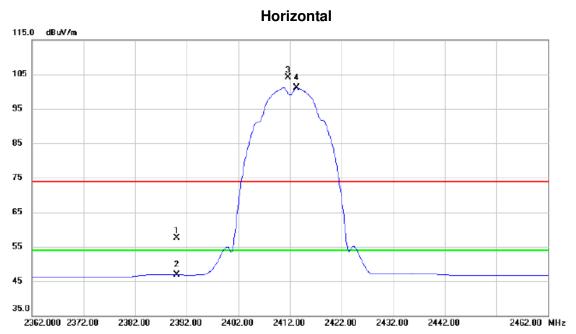
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824. 0000	46. 14	4. 87	51. 01	74.00	-22.99	Peak	
2 *	4824. 0000	44. 09	4. 87	48. 96	54.00	-5. 04	AVG	

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Orthogonal Axis: X
Test Mode: TX B MODE 2412MHz



No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	24.43	33.01	57.44	74.00	-16.56	peak	
2		2390.000	13.93	33.01	46.94	54.00	-7.06	AVG	
3	Χ	2411.700	70.93	33.10	104.03	74.00	30.03	peak	No Limit
4	*	2413.300	68.06	33.11	101.17	54.00	47.17	AVG	No Limit

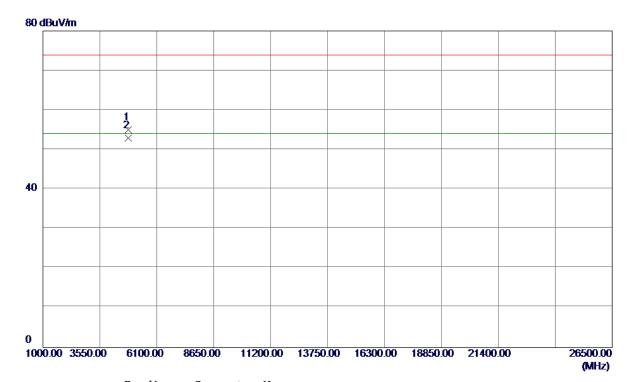
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Orthogonal Axis:	X
Test Mode :	TX B MODE 2412MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824. 0000	50. 14	4. 87	55. 01	74.00	-18. 99	Peak	
2 *	4824. 0000	48. 09	4. 87	52. 96	54.00	-1. 04	AVG	

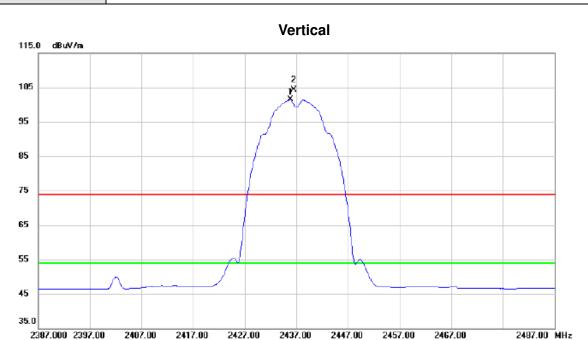
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Orthogonal Axis: X

Test Mode: TX B MODE 2437MHz



No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X	2435.800	68.22	33.20	101.42	74.00	27.42	peak	No Limit
2 *	2436.600	71.11	33.21	104.32	54.00	50.32	AVG	No Limit

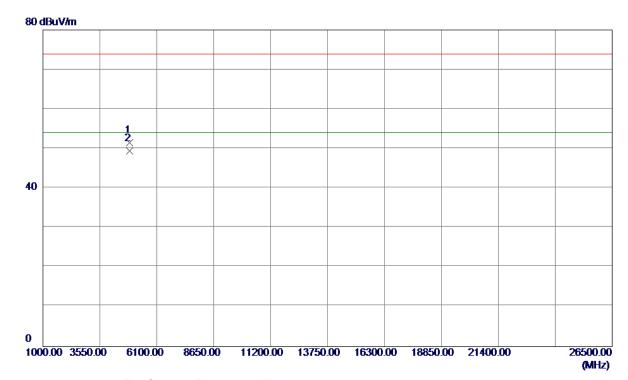
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Orthogonal Axis:	X
Test Mode:	TX B MODE 2437MHz

Vertical



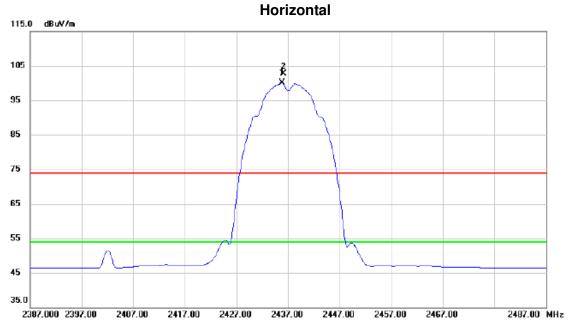
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874. 0000	46. 47	5. 08	51. 55	74.00	-22. 45	Peak	
2 *	4874. 0000	44. 31	5. 08	49. 39	54.00	-4. 61	AVG	

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Orthogonal Axis: X
Test Mode: TX B MODE 2437MHz



No. Mk	. Freq.			Measure- ment		Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2435.800	66.83	33.20	100.03	54.00	46.03	AVG	No Limit
2 X	2436.200	69.53	33.21	102.74	74.00	28.74	peak	No Limit

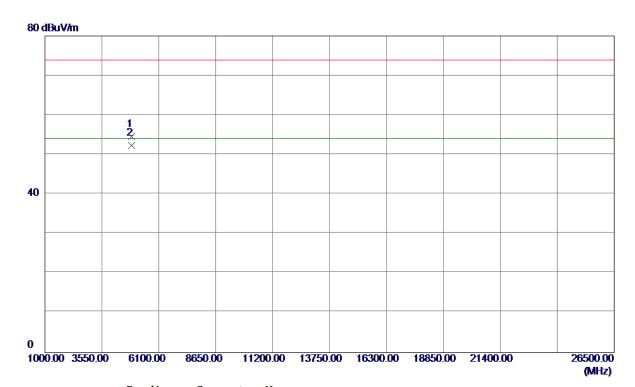
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Orthogonal Axis:	X
Test Mode:	TX B MODE 2437MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874. 0000	49. 47	5. 08	54. 55	74.00	-19. 45	Peak	
2 *	4874. 0000	47. 31	5. 08	52. 39	54. 00	-1. 61	AVG	

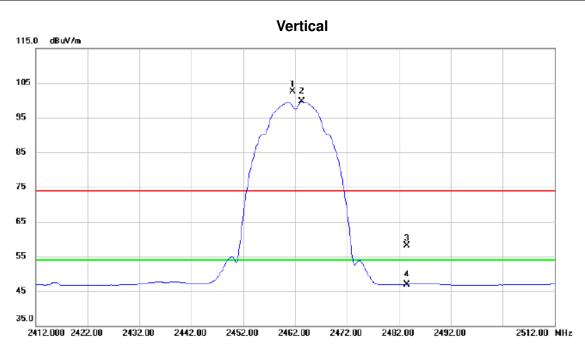
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Orthogonal Axis: X

Test Mode: TX B MODE 2462MHz



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	2461.600	69.19	33.31	102.50	74.00	28.50	peak	No Limit
2	*	2463.300	66.47	33.31	99.78	54.00	45.78	AVG	No Limit
3		2483.500	24.79	33.40	58.19	74.00	-15.81	peak	
4		2483.500	13.59	33.40	46.99	54.00	-7.01	AVG	

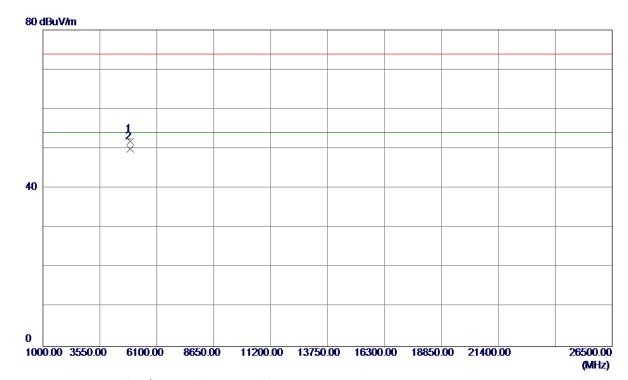
Report No.: BTL-FCCP-1-1611C131 Page 55 of 178





Orthogonal Axis:	X
Test Mode:	TX B MODE 2462MHz

Vertical



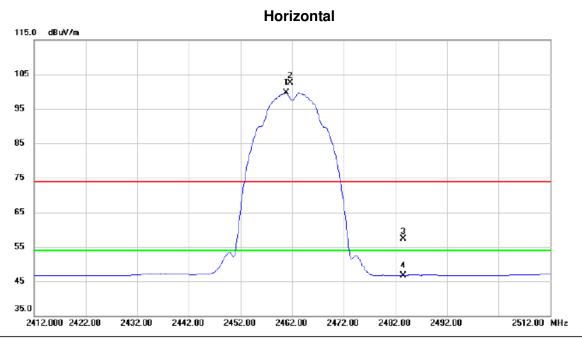
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 9500	46. 52	5. 29	51. 81	74.00	-22. 19	Peak	
2 *	4924. 0000	44. 55	5. 29	49. 84	54.00	-4. 16	AVG	

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Orthogonal Axis: X
Test Mode: TX B MODE 2462MHz



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment		Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2460.800	66.37	33.30	99.67	54.00	45.67	AVG	No Limit
2	Χ	2461.700	69.25	33.31	102.56	74.00	28.56	peak	No Limit
3		2483.500	23.95	33.40	57.35	74.00	-16.65	peak	
4		2483.500	13.35	33.40	46.75	54.00	-7.25	AVG	

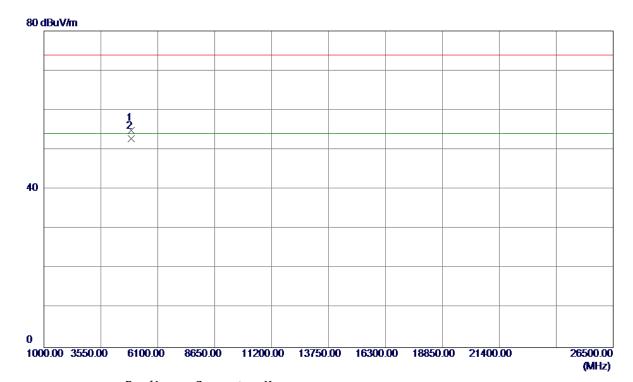
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Orthogonal Axis:	X
Test Mode:	TX B MODE 2462MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 9500	49. 52	5. 29	54. 81	74.00	-19. 19	Peak	
2 *	4924. 0000	47. 55	5. 29	52. 84	54.00	-1. 16	AVG	

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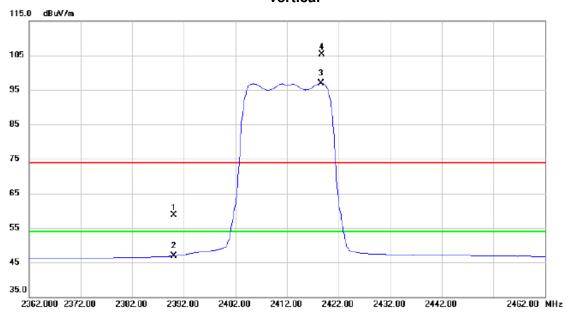




Orthogonal Axis: X

Test Mode: TX G MODE 2412MHz

Vertical



No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	25.68	33.01	58.69	74.00	-15.31	peak	
2		2390.000	13.90	33.01	46.91	54.00	-7.09	AVG	
3	*	2418.600	63.77	33.13	96.90	54.00	42.90	AVG	No Limit
4	X	2418.700	72.10	33.13	105.23	74.00	31.23	peak	No Limit

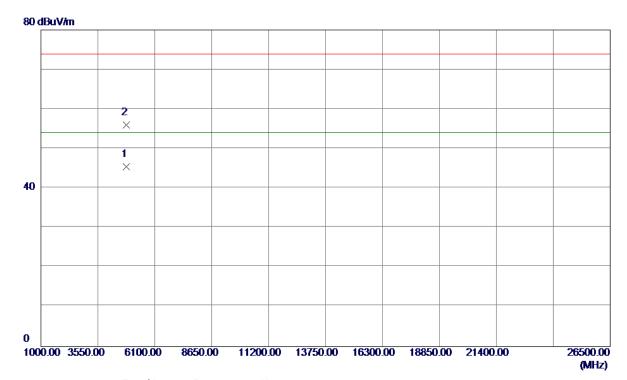
Report No.: BTL-FCCP-1-1611C131 Page 59 of 178





Orthogonal Axis:	X
Test Mode :	TX G MODE 2412MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824. 2000	40. 62	4. 87	45. 49	54.00	-8. 51	AVG	
2	4824. 9500	51. 12	4. 88	56. 00	74. 00	-18. 00	Peak	

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Orthogonal Axis: X
Test Mode: TX G MODE 2412MHz

Horizontal 115.0 dBuV/m \$ 105 95 85 65 X 55 45 2362.000 2372.00 2382.00 2392.00 2402.00 2412.00 2422.00 2432.00 2442.00 2462.00 MHz

No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	23.30	33.01	56.31	74.00	-17.69	peak	
2		2390.000	13.94	33.01	46.95	54.00	-7.05	AVG	
3	*	2418.600	63.77	33.13	96.90	54.00	42.90	AVG	No Limit
4	X	2418.700	72.01	33.13	105.14	74.00	31.14	peak	No Limit

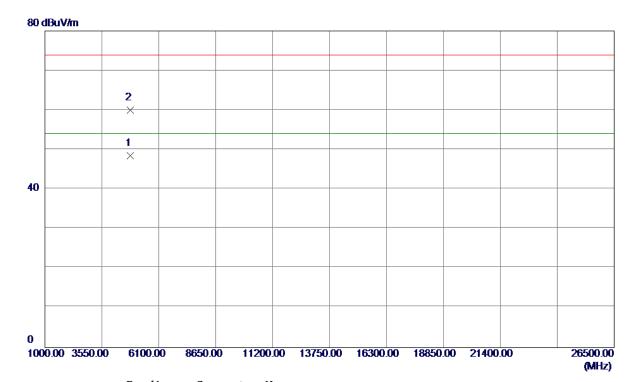
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Orthogonal Axis:	x
Test Mode:	TX G MODE 2412MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4824. 2000	43. 62	4. 87	48. 49	54.00	-5. 51	AVG	
2	4824. 9500	55. 12	4. 88	60. 00	74. 00	-14.00	Peak	

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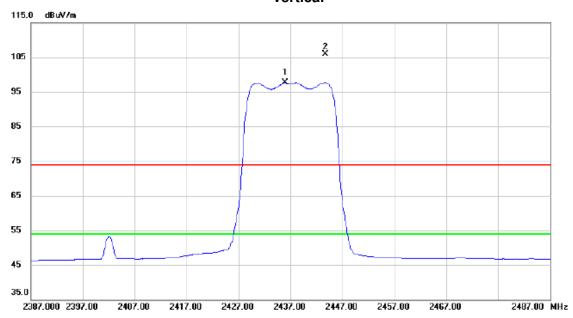




Orthogonal Axis: X

Test Mode: TX G MODE 2437MHz

Vertical



No).	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1 '	k	2436.000	64.55	33.21	97.76	54.00	43.76	AVG	No Limit
2	2)	X	2443.700	72.71	33.23	105.94	74.00	31.94	peak	No Limit

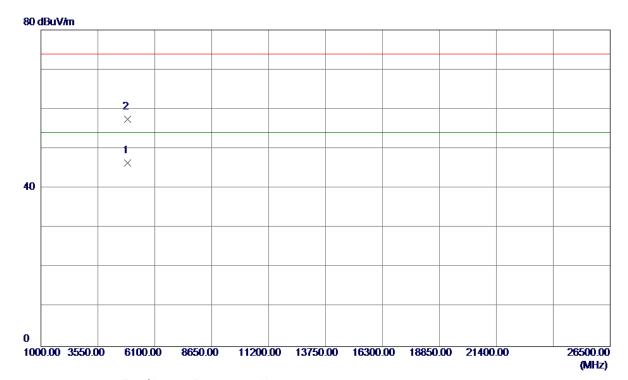
Report No.: BTL-FCCP-1-1611C131 Page 63 of 178





Orthogonal Axis:	X
Test Mode:	TX G MODE 2437MHz

Vertical



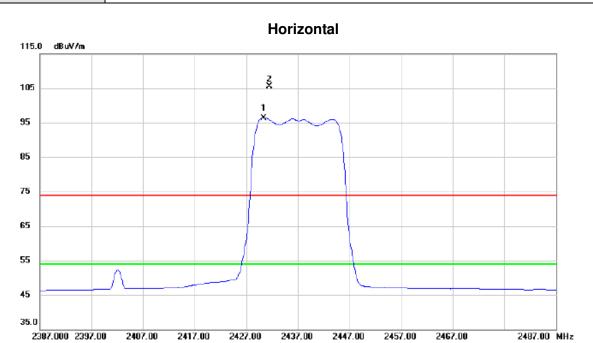
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874. 2000	41. 25	5. 08	46. 33	54.00	-7. 67	AVG	
2	4874. 2500	52. 33	5. 08	57. 41	74. 00	-16. 59	Peak	

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Orthogonal Axis: X
Test Mode: TX G MODE 2437MHz



No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	2430.400	63.21	33.18	96.39	54.00	42.39	AVG	No Limit	
2 X	2431.500	72.40	33.18	105.58	74.00	31.58	peak	No Limit	

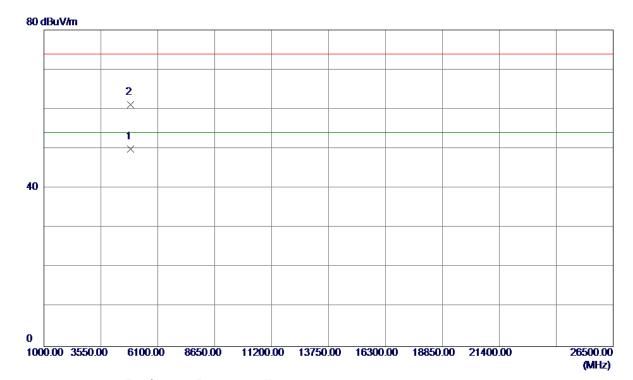
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Orthogonal Axis:	X
Test Mode:	TX G MODE 2437MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874. 3000	44. 89	5. 08	49. 97	54.00	-4. 03	AVG	
2	4875. 0000	56. 08	5. 08	61. 16	74.00	-12. 84	Peak	

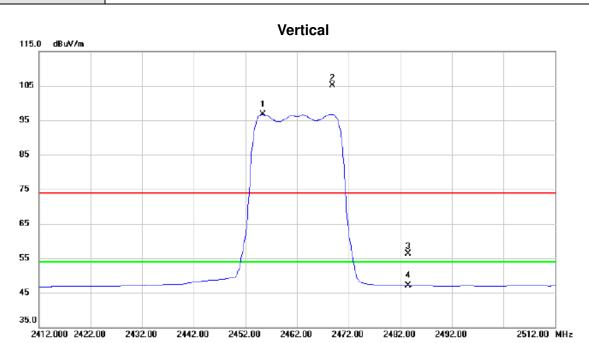
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Orthogonal Axis: X

Test Mode: TX G MODE 2462MHz



No. Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2455.400	63.46	33.29	96.75	54.00	42.75	AVG	No Limit
2 X	2468.800	71.68	33.34	105.02	74.00	31.02	peak	No Limit
3	2483.500	22.83	33.40	56.23	74.00	-17.77	peak	
4	2483.500	13.62	33.40	47.02	54.00	-6.98	AVG	

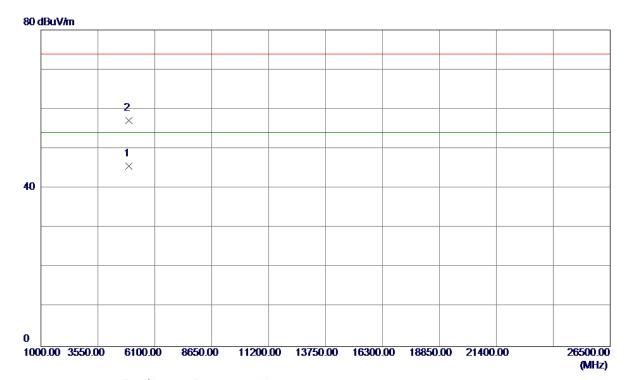
Report No.: BTL-FCCP-1-1611C131 Page 67 of 178





Orthogonal Axis:	X
Test Mode:	TX G MODE 2462MHz

Vertical



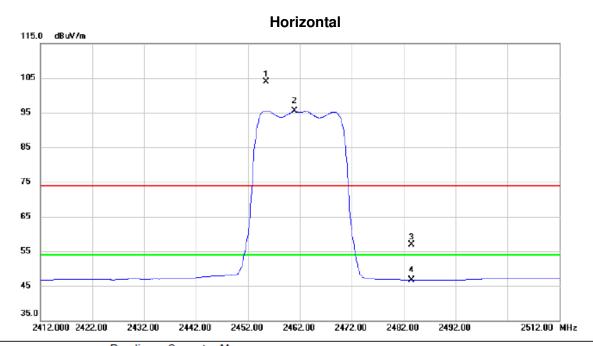
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 3000	40. 32	5. 29	45. 61	54.00	-8. 39	AVG	
2	4925. 0000	51. 84	5. 29	57. 13	74.00	-16. 87	Peak	

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Orthogonal Axis: X
Test Mode: TX G MODE 2462MHz



No. M	c. Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X	2455.600	70.54	33.29	103.83	74.00	29.83	peak	No Limit
2 *	2461.000	62.23	33.31	95.54	54.00	41.54	AVG	No Limit
3	2483.500	23.60	33.40	57.00	74.00	-17.00	peak	
4	2483.500	13.32	33.40	46.72	54.00	-7.28	AVG	

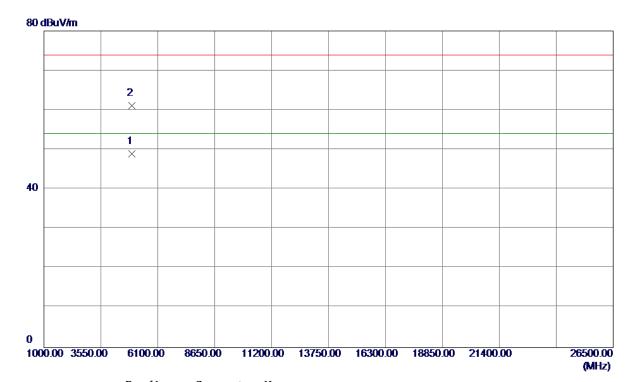
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Orthogonal Axis:	X
Test Mode:	TX G MODE 2462MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4924. 3000	43. 66	5. 29	48. 95	54.00	−5. 0 5	AVG	
2	4925. 0000	55. 84	5. 29	61. 13	74.00	-12. 87	Peak	

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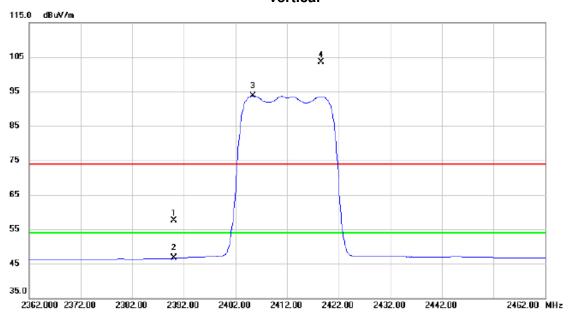




Orthogonal Axis: X

Test Mode: TX N-20M MODE 2412MHz

Vertical



N	o. N	∕lk. Freq.	Reading Level		Measure- ment	Limit	Margin			
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
	1	2390.000	24.54	33.01	57.55	74.00	-16.45	peak		
	2	2390.000	13.59	33.01	46.60	54.00	-7.40	AVG		
	3 *	2405.400	60.70	33.08	93.78	54.00	39.78	AVG	No Limit	
	4 X	2418.600	70.42	33.13	103.55	74.00	29.55	peak	No Limit	

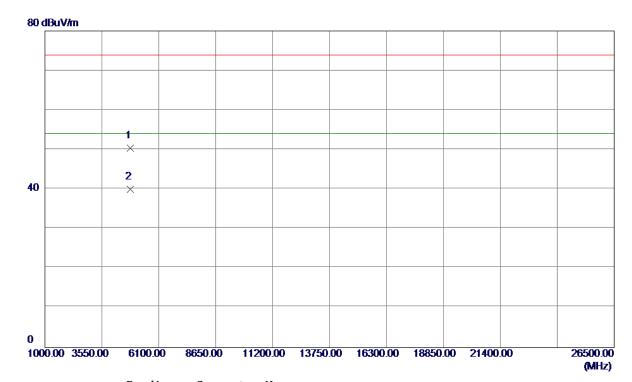
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Orthogonal Axis:	X
Test Mode :	TX N-20M MODE 2412MHz

Vertical



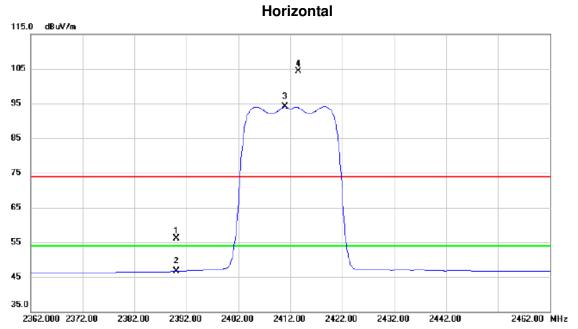
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824. 3000	45. 51	4. 87	50. 38	74.00	-23. 62	Peak	
2 *	4824. 6500	35. 11	4. 87	39. 98	54. 00	-14. 02	AVG	

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2412MHz



No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	23.11	33.01	56.12	74.00	-17.88	peak	
2		2390.000	13.63	33.01	46.64	54.00	-7.36	AVG	
3	*	2411.000	61.01	33.10	94.11	54.00	40.11	AVG	No Limit
4	Х	2413.600	71.16	33.11	104.27	74.00	30.27	peak	No Limit

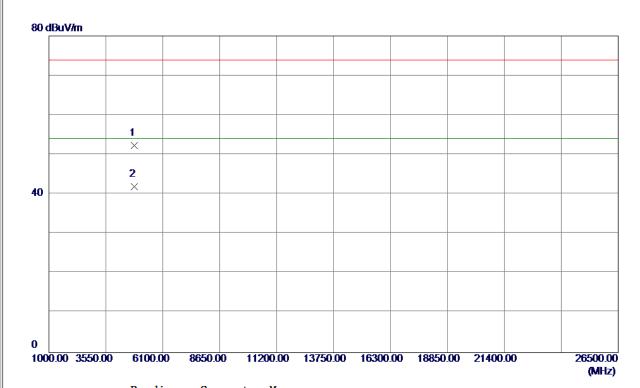
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Orthogonal Axis:	X
Test Mode:	TX N-20M MODE 2412MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824. 3000	47. 51	4. 87	52. 38	74.00	-21. 62	Peak	
2 *	4824. 6500	37. 11	4. 87	41. 98	54. 00	-12. 0 2	AVG	

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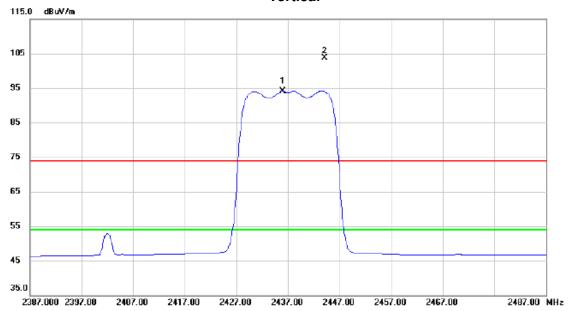




Orthogonal Axis: X

Test Mode: TX N-20M MODE 2437MHz

Vertical



No.	Mk	c. Freq.			Measure- ment		Margin		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2436.000	60.97	33.21	94.18	54.00	40.18	AVG	No Limit
2	Х	2444.200	70.52	33.24	103.76	74.00	29.76	peak	No Limit

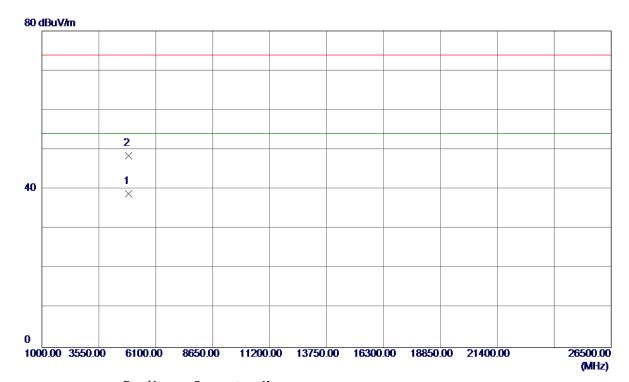
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Orthogonal Axis:	X
Test Mode:	TX N-20M MODE 2437MHz

Vertical



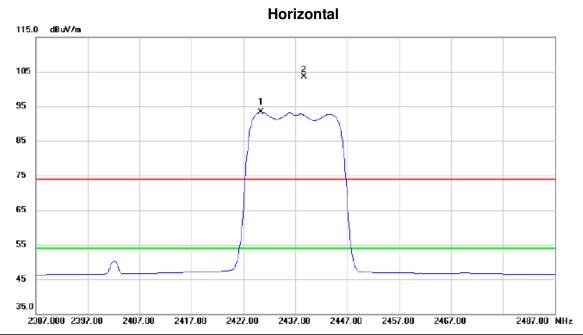
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874. 1500	33. 78	5. 08	38. 86	54.00	-15. 14	AVG	
2	4874. 2500	43. 33	5. 08	48. 41	74.00	-25. 59	Peak	

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2437MHz



No.	Mk	ι. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	*	2430.400	60.12	33.18	93.30	54.00	39.30	AVG	No Limit	
2	Х	2438.700	70.24	33.21	103.45	74.00	29.45	peak	No Limit	

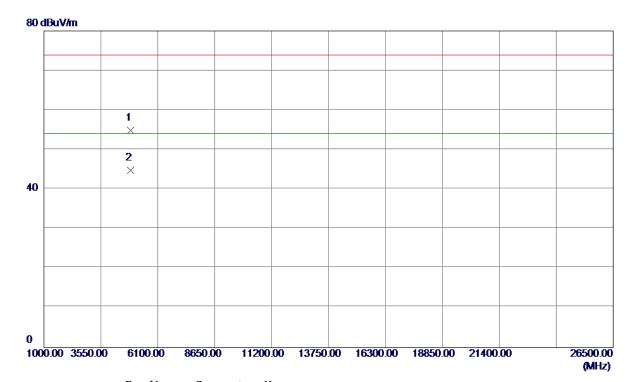
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Orthogonal Axis:	X
Test Mode :	TX N-20M MODE 2437MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874. 0000	49. 85	5. 08	54. 93	74.00	-19. 07	Peak	
2 *	4874. 0000	39. 78	5. 08	44. 86	54.00	-9. 14	AVG	

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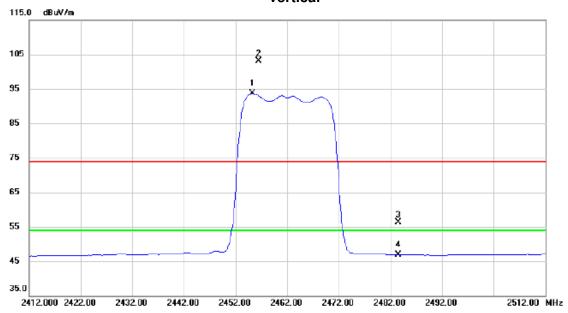




Orthogonal Axis: X

Test Mode: TX N-20M MODE 2462MHz

Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2455.300	60.39	33.29	93.68	54.00	39.68	AVG	No Limit
2	Χ	2456.500	69.72	33.29	103.01	74.00	29.01	peak	No Limit
3		2483.500	22.86	33.40	56.26	74.00	-17.74	peak	
4		2483.500	13.49	33.40	46.89	54.00	-7.11	AVG	

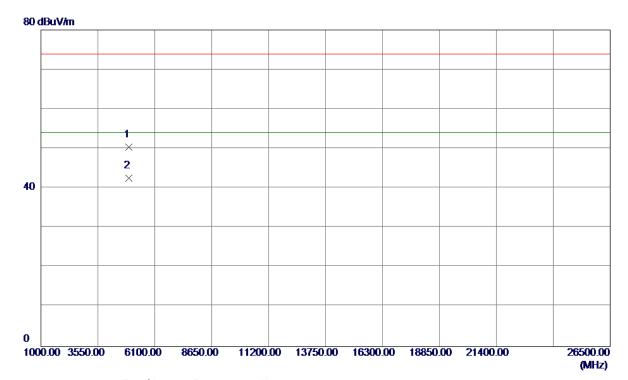
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Orthogonal Axis:	X
Test Mode:	TX N-20M MODE 2462MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924. 3000	45. 14	5. 29	50. 43	74.00	-23. 57	Peak	
2 *	4924. 6500	37. 31	5. 29	42. 60	54.00	-11. 40	AVG	

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Orthogonal Axis: X
Test Mode: TX N-20M MODE 2462MHz

Horizontal 115.0 dBuV/m 105 X 95 85 **75** 65 3 55 45 2512.00 MHz 2412.000 2422.00 2432.00 2442.00 2452.00 2462.00 2472.00 2482.00 2492.00

No. M	lk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X	24	455.700	69.81	33.29	103.10	74.00	29.10	peak	No Limit
2 *	24	463.100	60.14	33.31	93.45	54.00	39.45	AVG	No Limit
3	24	483.500	24.87	33.40	58.27	74.00	-15.73	peak	
4	24	483.500	13.28	33.40	46.68	54.00	-7.32	AVG	

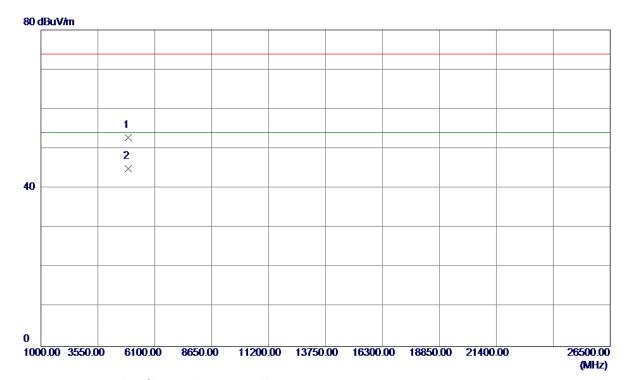
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Orthogonal Axis:	X
Test Mode:	TX N-20M MODE 2462MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923. 9250	47. 53	5. 28	52. 81	74.00	-21. 19	Peak	
2 *	4924. 0150	39. 65	5. 29	44. 94	54.00	-9. 06	AVG	

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2522.00 MHz

Orthogonal Axis: X

35.0

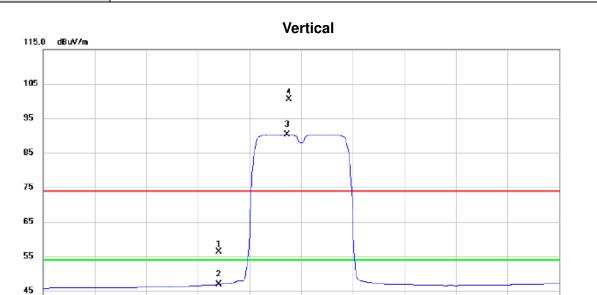
2322.000 2342.00

Test Mode: TX N-40M MODE 2422MHz

2362.00

2382.00

2402.00



No.	Mk	. Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	23.27	33.01	56.28	74.00	-17.72	peak	
2		2390.000	13.86	33.01	46.87	54.00	-7.13	AVG	
3	*	2416.400	57.18	33.12	90.30	54.00	36.30	AVG	No Limit
4	Χ	2417.400	67.43	33.13	100.56	74.00	26.56	peak	No Limit

2422.00

2442.00

2462.00

2482.00

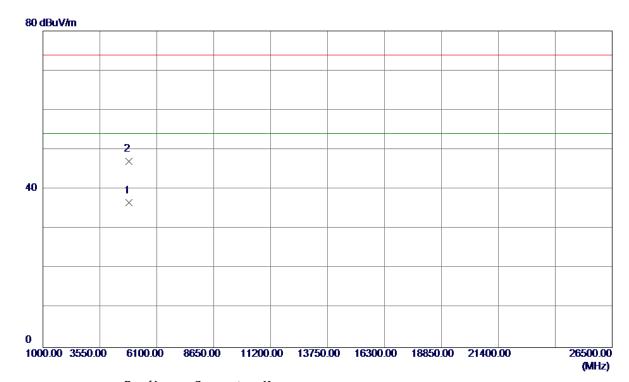
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Orthogonal Axis:	X
Test Mode:	TX N-40M MODE 2422MHz

Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4844. 0000	31. 61	4. 95	36. 56	54.00	-17. 44	AVG	
2	4844. 4000	42. 03	4. 96	46. 99	74. 00	-27. 01	Peak	

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2322.000 2342.00

2362.00

2382.00

2402.00



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

Horizontal 115.0 dBuW/m 105 95 65 75 45 22 45 38.0

N	0.	Mk.	Freq.	_	Correct Factor	Measure- ment		Margin		
			MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		2390.000	24.03	33.01	57.04	74.00	-16.96	peak	
	2		2390.000	13.88	33.01	46.89	54.00	-7.11	AVG	
	3	X	2408.000	67.19	33.09	100.28	74.00	26.28	peak	No Limit
	4	*	2416.600	57.46	33.12	90.58	54.00	36.58	AVG	No Limit

2422.00

2442.00

2462.00

2482.00

2522.00 MHz

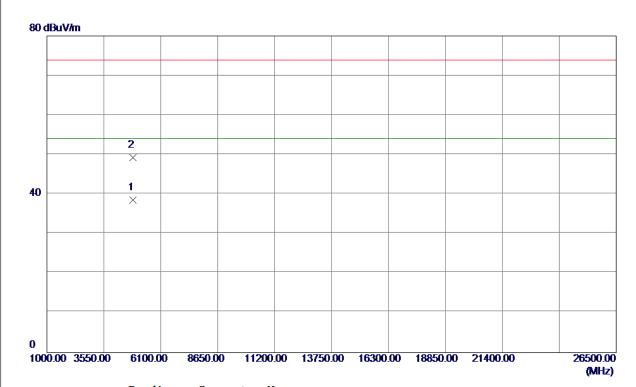
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Orthogonal Axis:	X
Test Mode:	TX N-40M MODE 2422MHz

Horizontal



No.	Freq.	Reading Level	Correct Measure Factor ment		Limit	Limit Margin			
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	4844. 1500	33. 67	4. 95	38. 62	54.00	-15. 38	AVG		
2	4844. 3250	44. 33	4. 96	49. 29	74.00	-24. 71	Peak		

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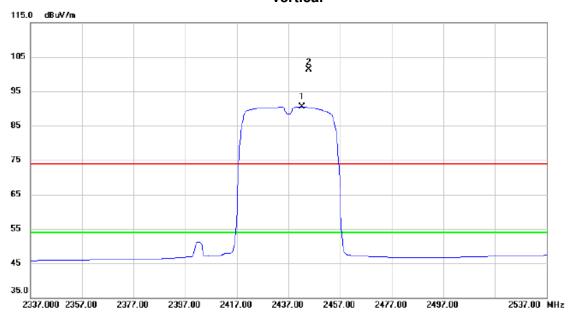




Orthogonal Axis: X

Test Mode: TX N-40M MODE 2437MHz

Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2442.200	57.32	33.23	90.55	54.00	36.55	AVG	No Limit
2	Χ	2444.800	68.15	33.24	101.39	74.00	27.39	peak	No Limit

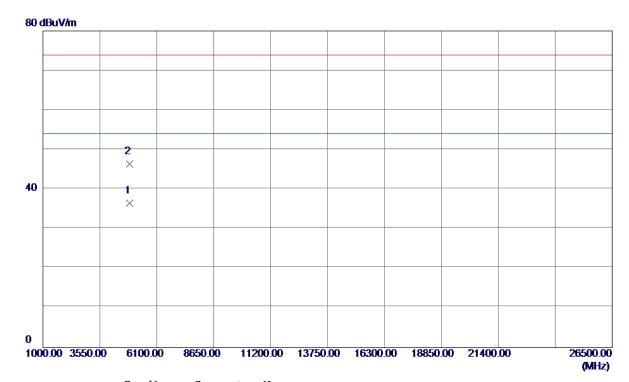
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Orthogonal Axis:	X
Test Mode:	TX N-40M MODE 2437MHz

Vertical



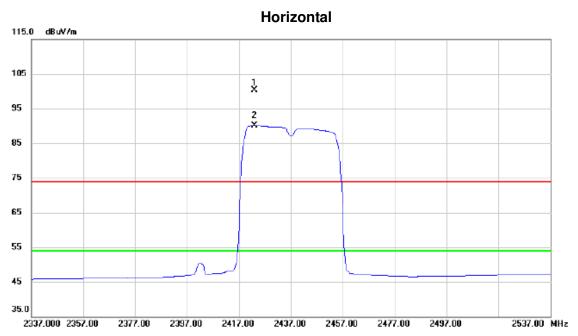
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4874. 1500	31. 45	5. 0 8	36. 53	54.00	-17. 47	AVG	
2	4874. 4500	41. 33	5. 08	46. 41	74. 00	-27. 59	Peak	

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



No. Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 X	2423.000	67.07	33.14	100.21	74.00	26.21	peak	No Limit
2 *	2423.000	56.96	33.14	90.10	54.00	36.10	AVG	No Limit

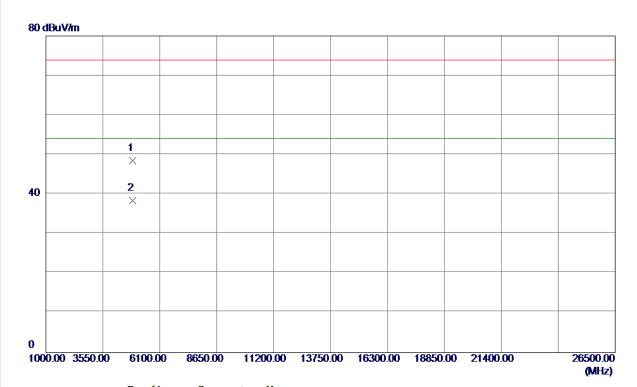
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Orthogonal Axis:	X
Test Mode:	TX N-40M MODE 2437MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874. 0000	43. 45	5. 08	48. 53	74.00	-25. 47	Peak	
2 *	4874. 0000	33. 32	5. 08	38. 40	54.00	-15. 60	AVG	

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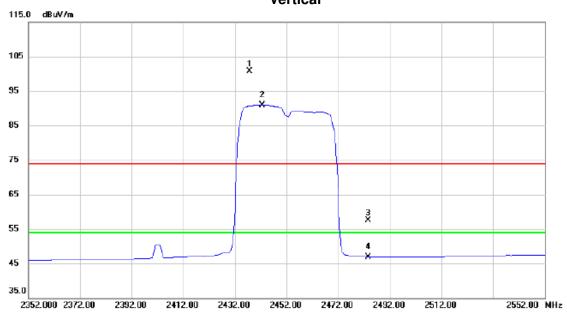




Orthogonal Axis: X

Test Mode: TX N-40M MODE 2452MHz

Vertical



No. M	k. Freq.	Reading Level		Measure- ment	Limit	Margin			
	MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 X	2437.800	67.54	33.21	100.75	74.00	26.75	peak	No Limit	
2 *	2442.600	57.74	33.23	90.97	54.00	36.97	AVG	No Limit	
3	2483.500	24.19	33.40	57.59	74.00	-16.41	peak		
4	2483.500	13.57	33.40	46.97	54.00	-7.03	AVG		

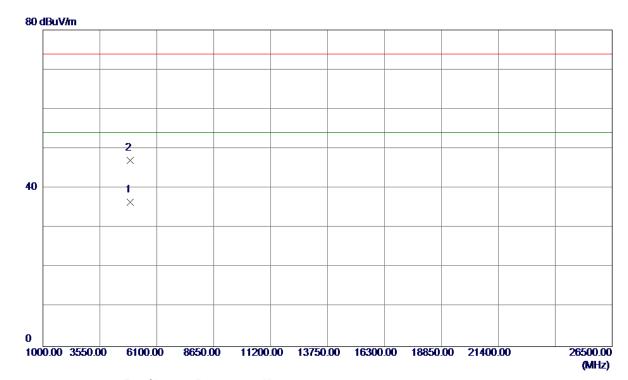
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Orthogonal Axis:	X
Test Mode:	TX N-40M MODE 2452MHz

Vertical



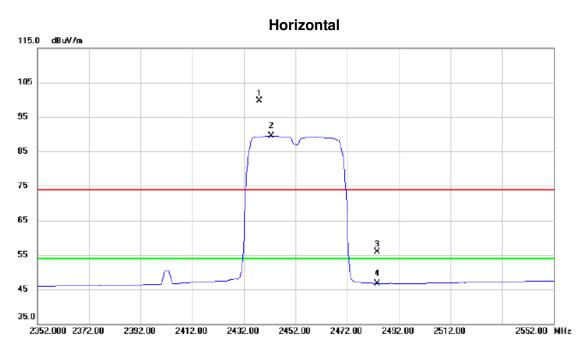
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4901.0000	31. 32	5. 19	36. 51	54.00	-17. 49	AVG	
2	4908. 4000	41. 89	5. 22	47. 11	74. 00	-26. 89	Peak	

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Orthogonal Axis: X
Test Mode: TX N-40M MODE 2452MHz



	No.	М	k. Freq.	_	Correct Factor	Measure- ment		Margin			
			MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
_	1	Х	2438.000	66.55	33.21	99.76	74.00	25.76	peak	No Limit	
	2	*	2442.600	56.27	33.23	89.50	54.00	35.50	AVG	No Limit	
	3		2483.500	22.51	33.40	55.91	74.00	-18.09	peak		
_	4		2483.500	13.38	33.40	46.78	54.00	-7.22	AVG		

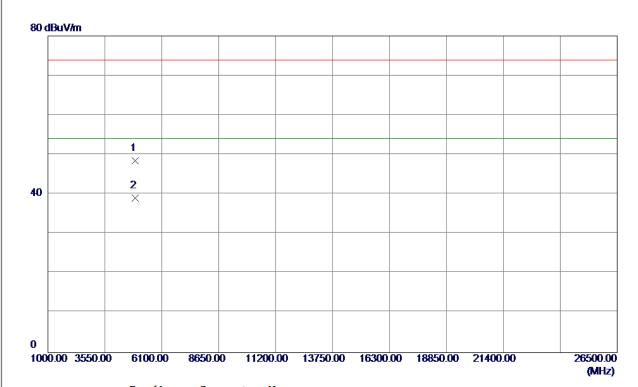
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Orthogonal Axis:	X
Test Mode:	TX N-40M MODE 2452MHz

Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4904. 2150	43. 29	5. 20	48. 49	74.00	-25. 51	Peak	
2 *	4904. 9250	33. 79	5. 21	39. 00	54.00	-15. 00	AVG	

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ATTACHMENT E - BANDWIDTH

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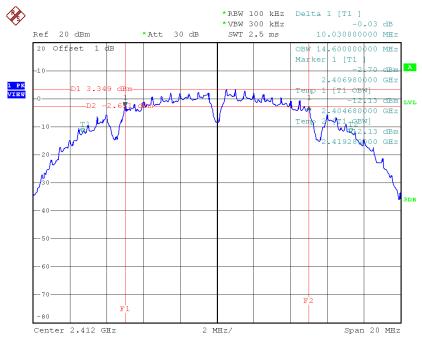




Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.03	14.60	500	Complies
2437	10.10	14.60	500	Complies
2462	9.62	14.60	500	Complies

TX CH01

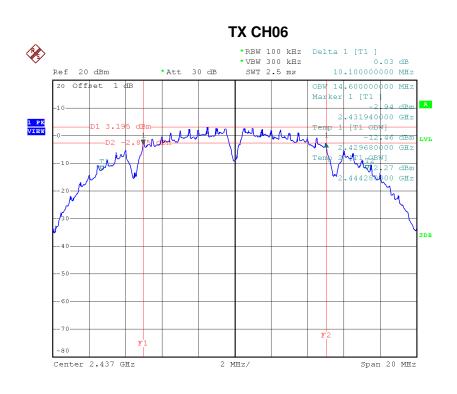


Date: 4.DEC.2016 09:50:56

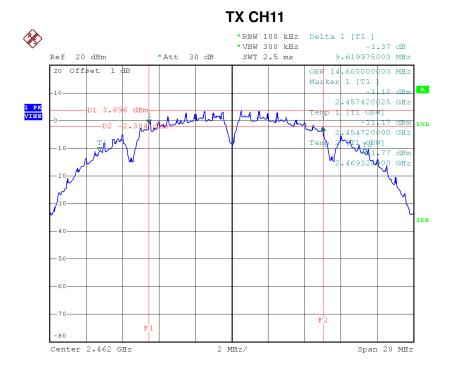
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Date: 4.DEC.2016 09:54:42

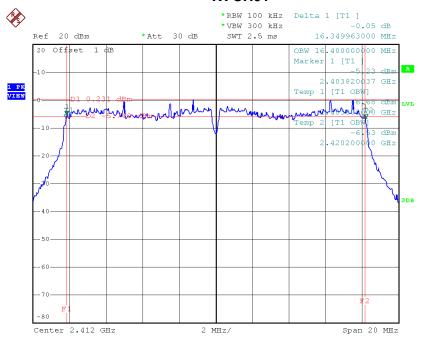




Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.35	16.40	500	Complies
2437	16.38	16.40	500	Complies
2462	16.35	16.40	500	Complies

TX CH01

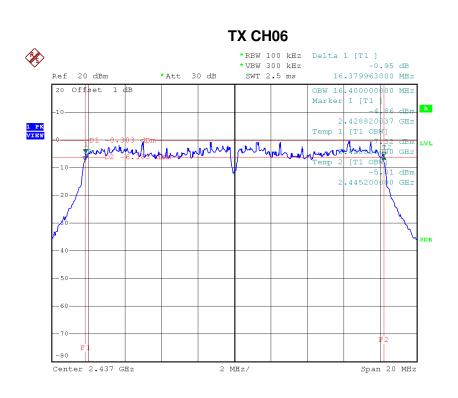


Date: 4.DEC.2016 10:02:24

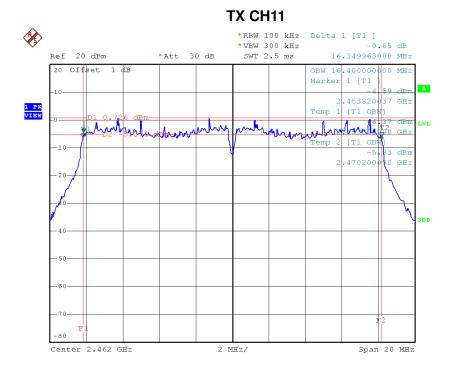
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Date: 4.DEC.2016 10:03:57



Date: 4.DEC.2016 10:05:12

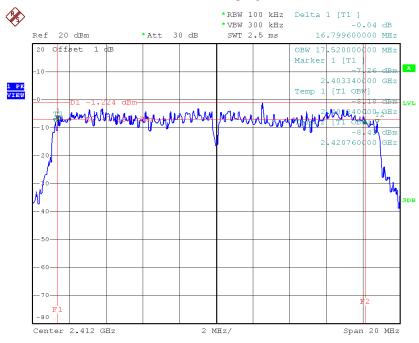




Test Mode: TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.80	17.52	500	Complies
2437	16.12	17.40	500	Complies
2462	16.32	17.44	500	Complies

TX CH01

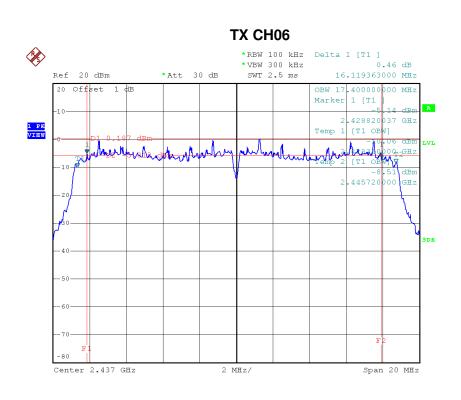


Date: 4.DEC.2016 10:11:28

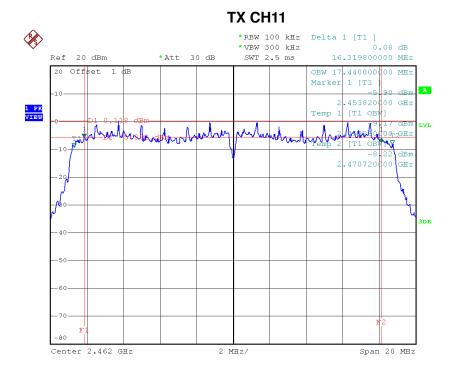
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Date: 4.DEC.2016 10:12:42



Date: 4.DEC.2016 10:13:47

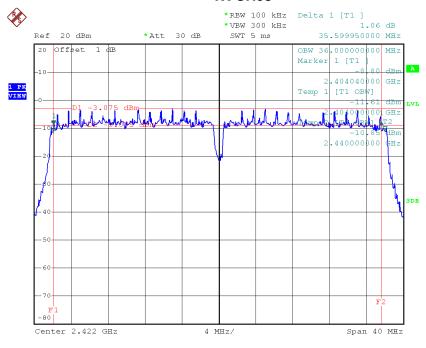




Test Mode: TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.60	36.00	500	Complies
2437	35.84	36.00	500	Complies
2452	35.60	36.00	500	Complies

TX CH03

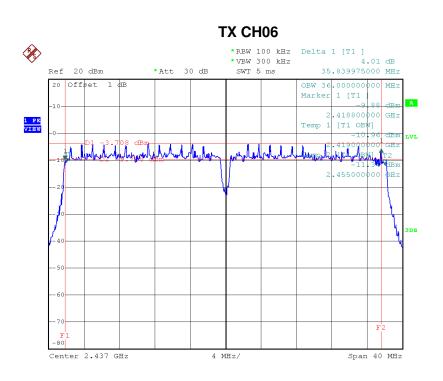


Date: 4.DEC.2016 10:19:50

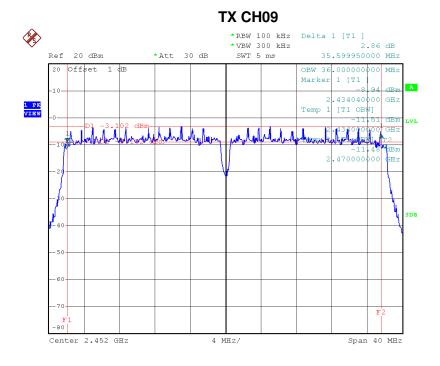
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Date: 4.DEC.2016 10:21:38



Date: 4.DEC.2016 10:23:10

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ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

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Test Mode :TX B Mode_CH01/06/11_ANT 1						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	15.52	0.04	30.00	1.00	Complies	
2437	16.16	0.04	30.00	1.00	Complies	
2462	15.86	0.04	30.00	1.00	Complies	

Test Mode :TX B Mode_CH01/06/11_ANT 2						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	15.64	0.04	30.00	1.00	Complies	
2437	15.72	0.04	30.00	1.00	Complies	
2462	15.42	0.03	30.00	1.00	Complies	

Test Mode :TX B Mode_CH01/06/11_Total						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Dogult	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Result	
2412	18.59	0.07	30.00	1.00	Complies	
2437	18.96	0.08	30.00	1.00	Complies	
2462	18.66	0.07	30.00	1.00	Complies	

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Test Mode :TX G Mode_CH01/06/11_ANT 1						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	22.19	0.17	30.00	1.00	Complies	
2437	22.34	0.17	30.00	1.00	Complies	
2462	22.36	0.17	30.00	1.00	Complies	

Test Mode :TX G Mode_CH01/06/11_ANT 2						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	22.77	0.19	30.00	1.00	Complies	
2437	23.41	0.22	30.00	1.00	Complies	
2462	22.42	0.17	30.00	1.00	Complies	

Test Mode :TX G Mode_CH01/06/11_Total						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	25.50	0.35	30.00	1.00	Complies	
2437	25.92	0.39	30.00	1.00	Complies	
2462	25.40	0.35	30.00	1.00	Complies	

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Test Mode :TX N20 Mode_CH01/06/11_ANT 1						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	21.15	0.13	30.00	1.00	Complies	
2437	21.14	0.13	30.00	1.00	Complies	
2462	21.02	0.13	30.00	1.00	Complies	

Test Mode :TX N20 Mode_CH01/06/11_ANT 2						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	20.98	0.13	30.00	1.00	Complies	
2437	20.90	0.12	30.00	1.00	Complies	
2462	20.83	0.12	30.00	1.00	Complies	

Test Mode :TX N20 Mode_CH01/06/11_Total						
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result	
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit	
2412	24.08	0.26	30.00	1.00	Complies	
2437	24.03	0.25	30.00	1.00	Complies	
2462	23.94	0.25	30.00	1.00	Complies	

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Test Mode :TX N40 Mode_CH03/06/09_ANT 1							
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result		
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit		
2422	20.27	0.11	30.00	1.00	Complies		
2437	20.56	0.11	30.00	1.00	Complies		
2452	20.12	0.10	30.00	1.00	Complies		

Test Mode :TX N40 Mode_CH03/06/09_ANT 2							
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result		
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	nesuit		
2422	20.66	0.12	30.00	1.00	Complies		
2437	20.78	0.12	30.00	1.00	Complies		
2452	20.85	0.12	30.00	1.00	Complies		

Test Mode :TX N40 Mode_CH03/06/09_Total							
Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Result		
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)			
2422	23.48	0.22	30.00	1.00	Complies		
2437	23.68	0.23	30.00	1.00	Complies		
2452	23.51	0.22	30.00	1.00	Complies		

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ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

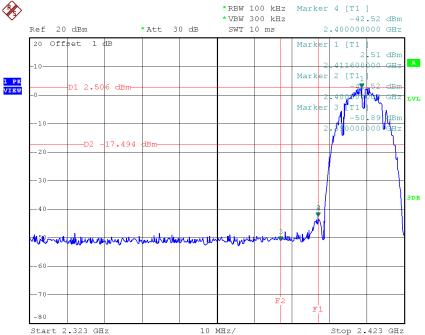
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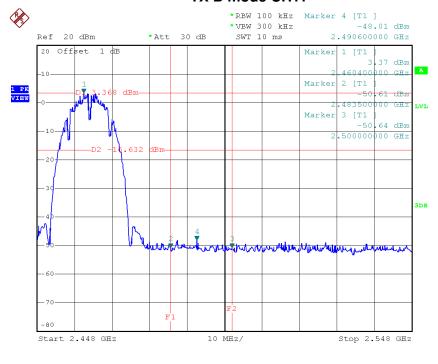


TX B mode CH01



Date: 4.DEC.2016 09:51:35

TX B mode CH11

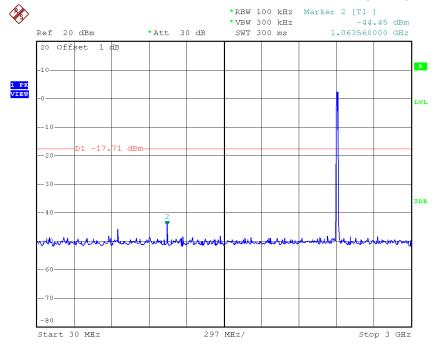


Date: 4.DEC.2016 09:55:21

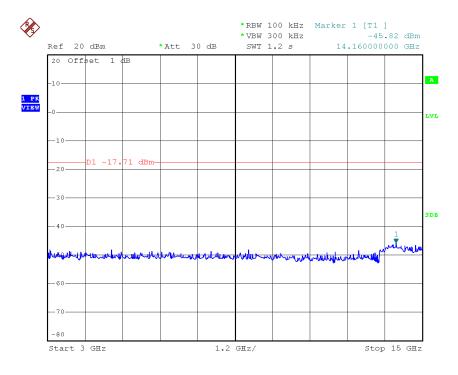




TX B mode CH01 (10 Harmonic of the frequency)



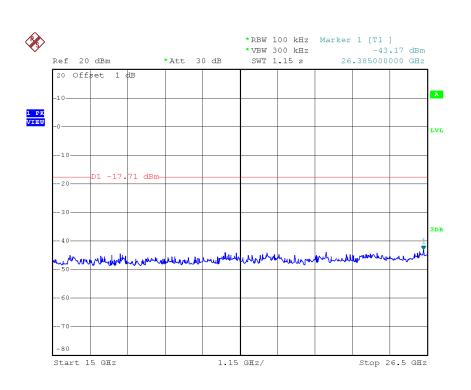
Date: 4.DEC.2016 09:51:10



Date: 4.DEC.2016 09:51:18

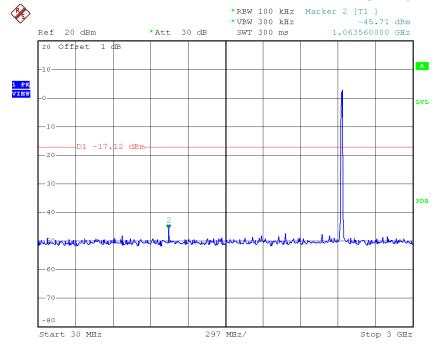






Date: 4.DEC.2016 09:51:27

TX B mode CH06 (10 Harmonic of the frequency)

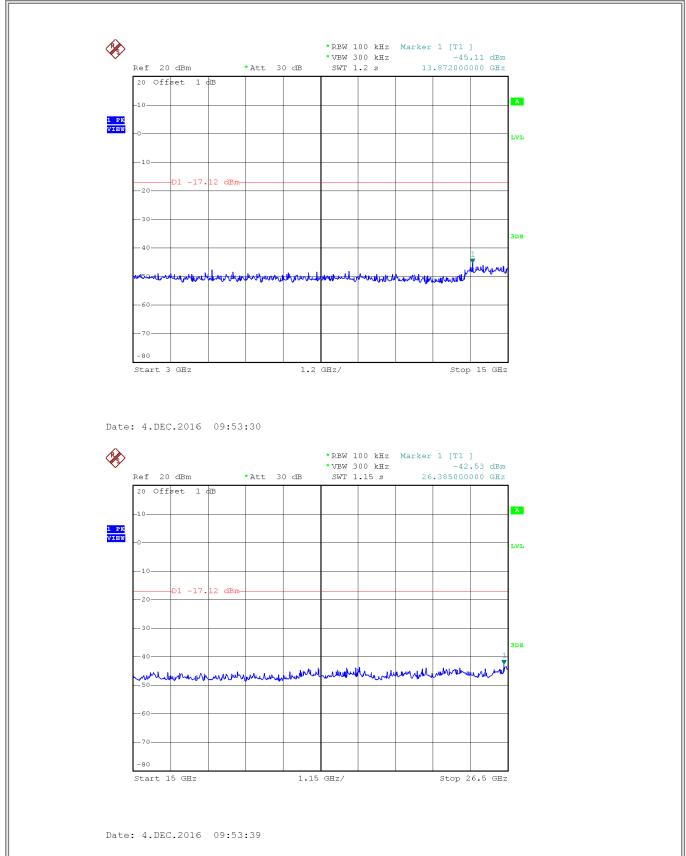


Date: 4.DEC.2016 09:53:22

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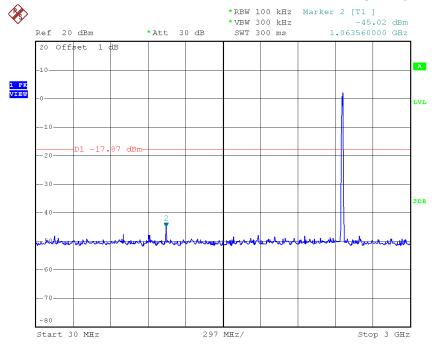


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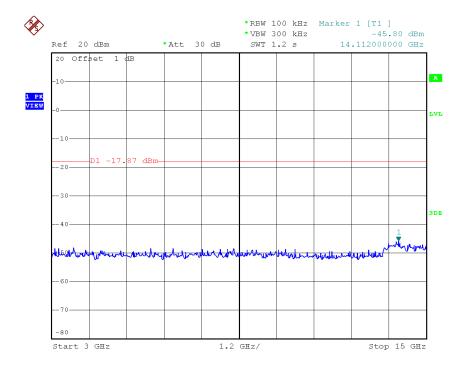




TX B mode CH11 (10 Harmonic of the frequency)



Date: 4.DEC.2016 09:54:56

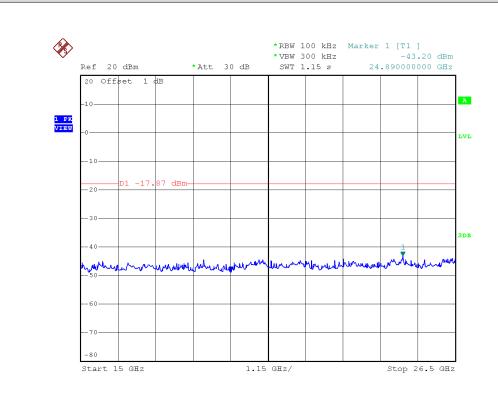


Date: 4.DEC.2016 09:55:04

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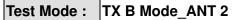


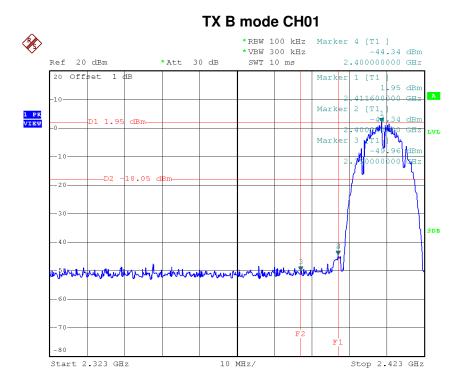
Date: 4.DEC.2016 09:55:13

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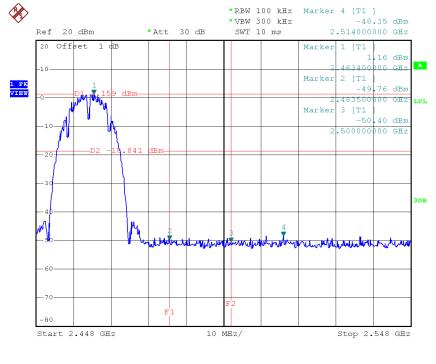






Date: 4.DEC.2016 09:57:21

TX B mode CH11

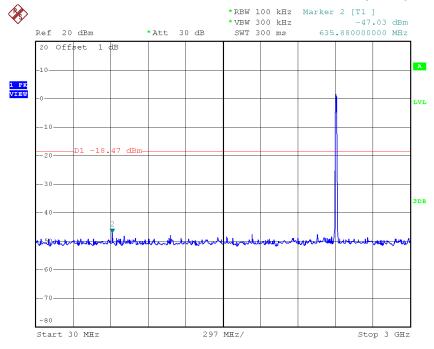


Date: 4.DEC.2016 10:00:45

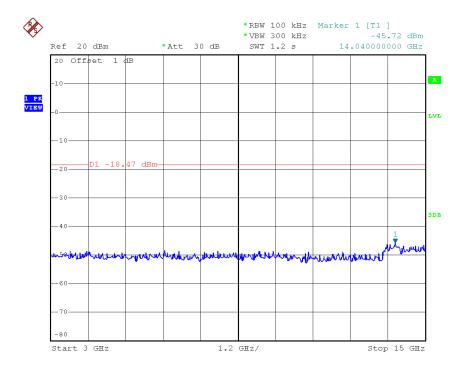




TX B mode CH01 (10 Harmonic of the frequency)



Date: 4.DEC.2016 09:56:56

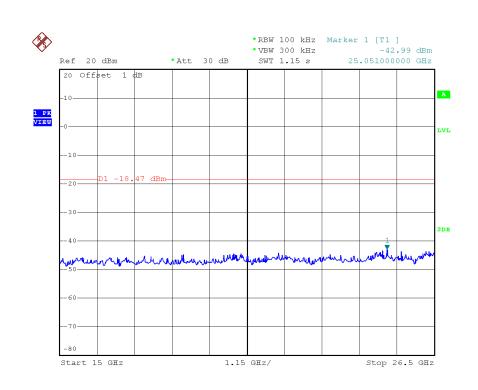


Date: 4.DEC.2016 09:57:04

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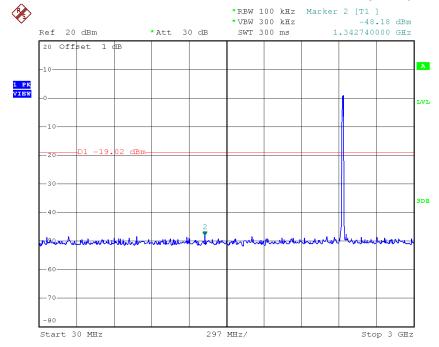






Date: 4.DEC.2016 09:57:13

TX B mode CH06 (10 Harmonic of the frequency)

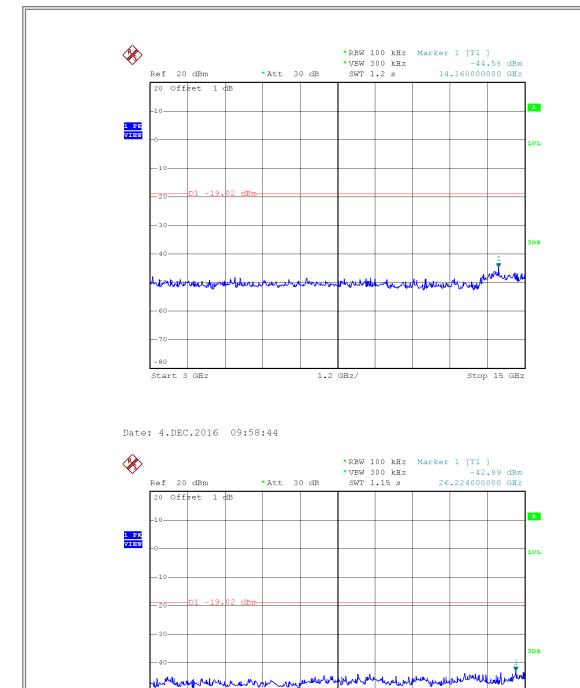


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1.15 GHz/

Date: 4.DEC.2016 09:58:52

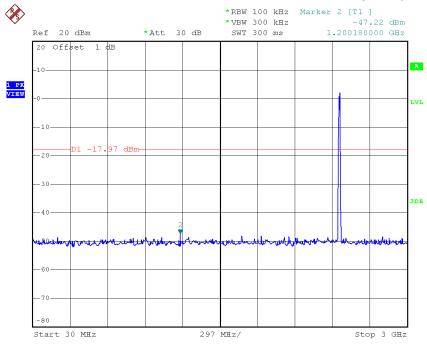
Start 15 GHz

Stop 26.5 GHz

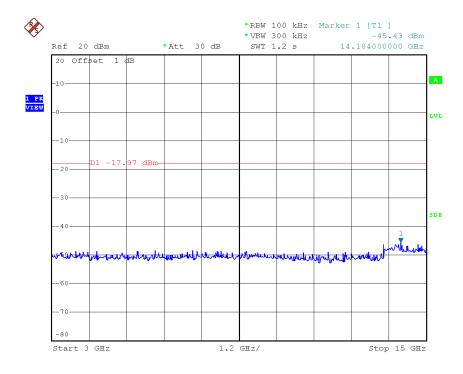




TX B mode CH11 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:00:20

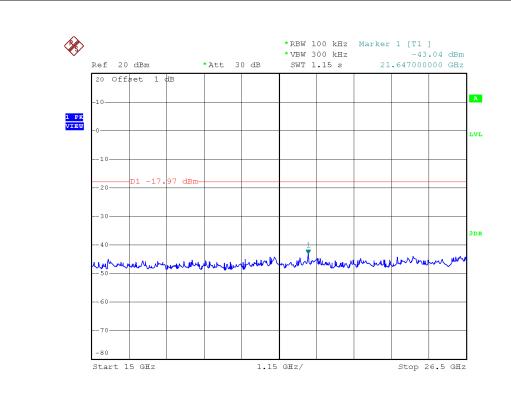


Date: 4.DEC.2016 10:00:29

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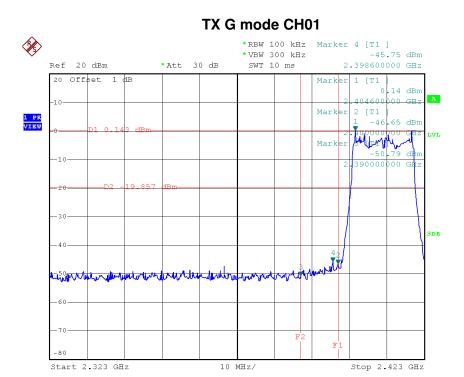
Date: 4.DEC.2016 10:00:37

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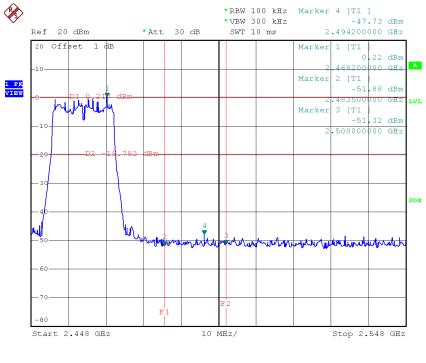






Date: 4.DEC.2016 10:03:02

TX G mode CH11

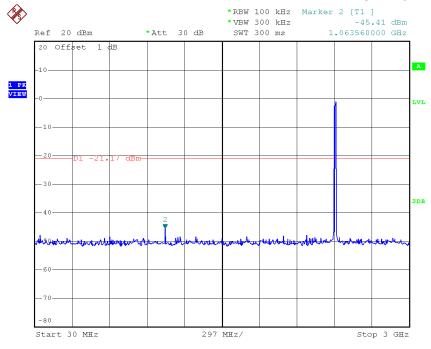


Date: 4.DEC.2016 10:05:51

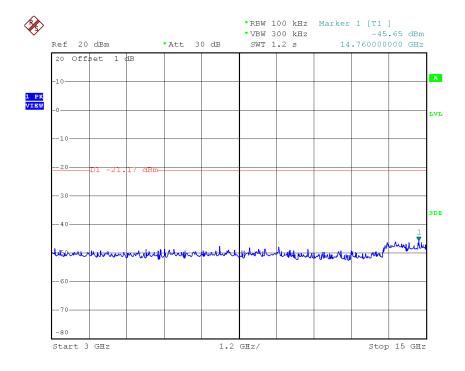




TX G mode CH01 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:02:38

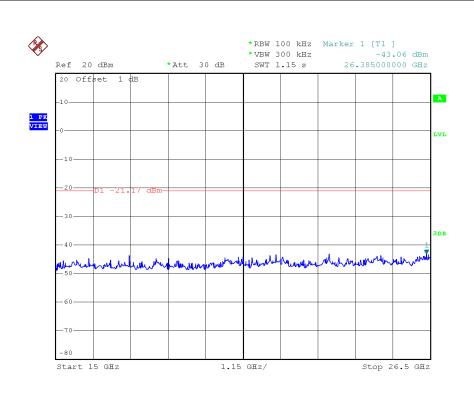


Date: 4.DEC.2016 10:02:46

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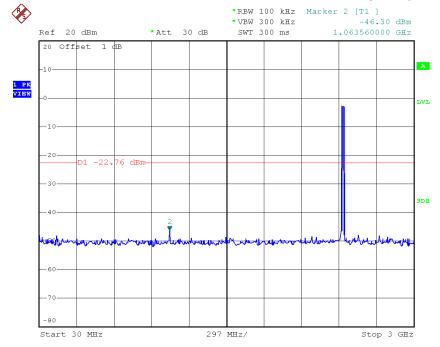






Date: 4.DEC.2016 10:02:54

TX G mode CH06 (10 Harmonic of the frequency)

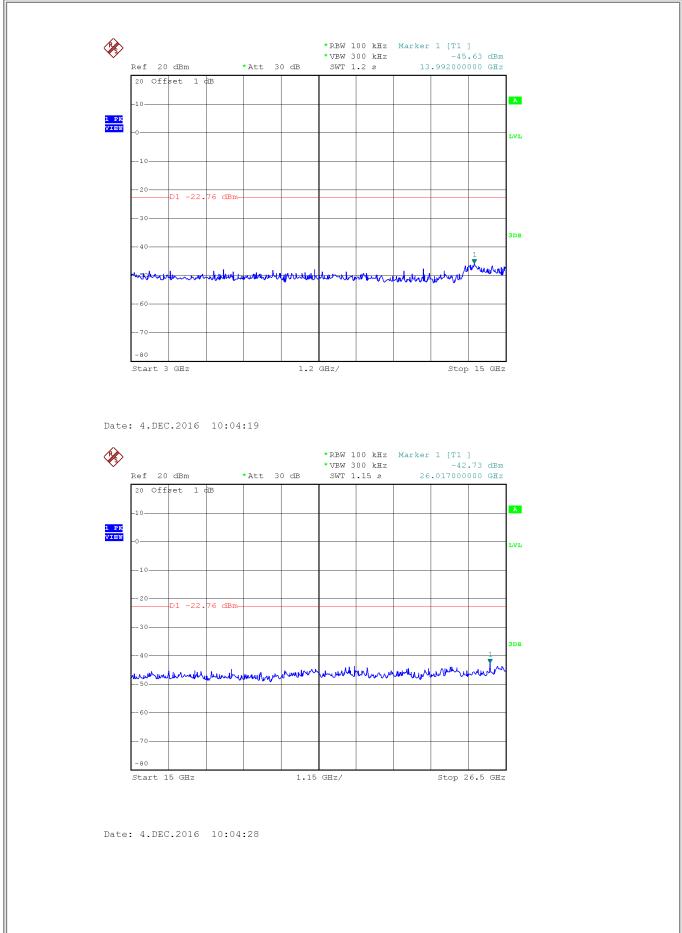


Date: 4.DEC.2016 10:04:11

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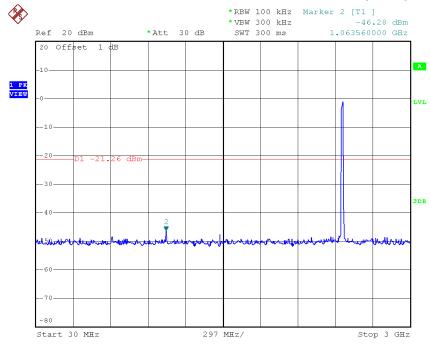
Report No.: BTL-FCCP-1-1611C131

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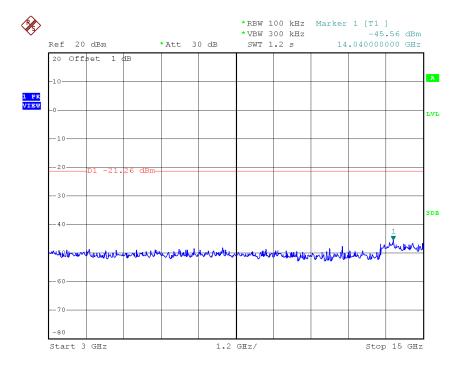




TX G mode CH11 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:05:26

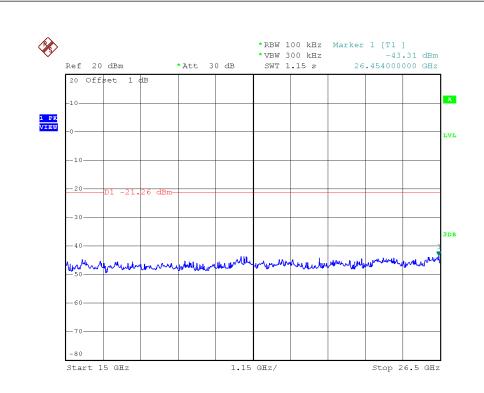


Date: 4.DEC.2016 10:05:35

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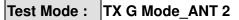


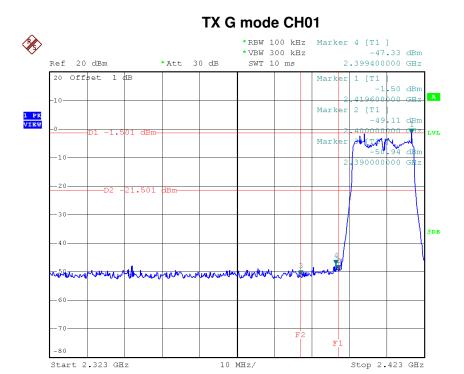
Date: 4.DEC.2016 10:05:43

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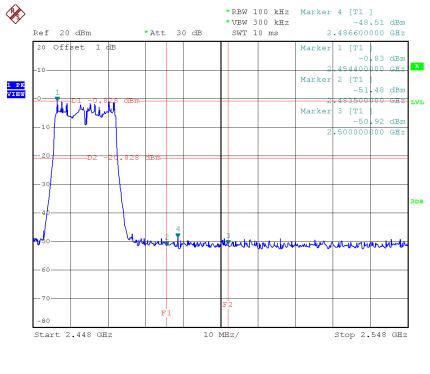






Date: 4.DEC.2016 10:07:21

TX G mode CH11

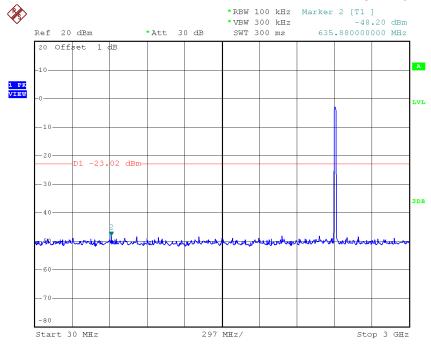


Date: 4.DEC.2016 10:09:55

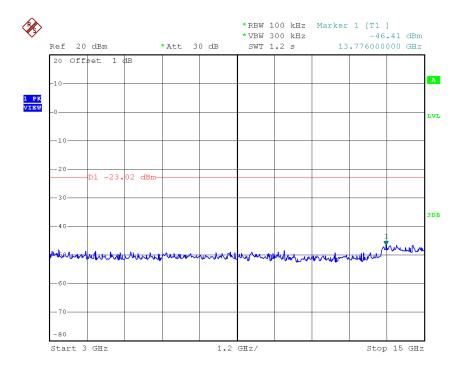




TX G mode CH01 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:06:56

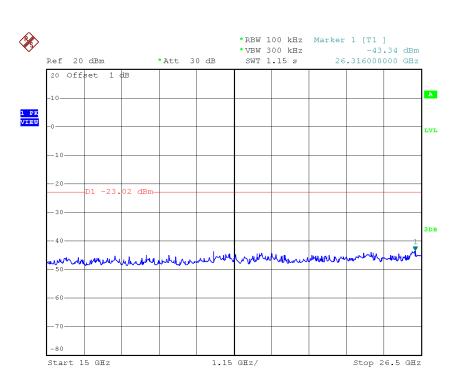


Date: 4.DEC.2016 10:07:04

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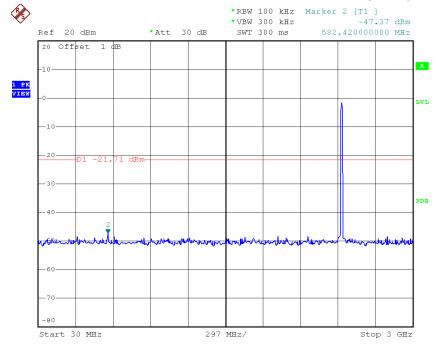






Date: 4.DEC.2016 10:07:13

TX G mode CH06 (10 Harmonic of the frequency)

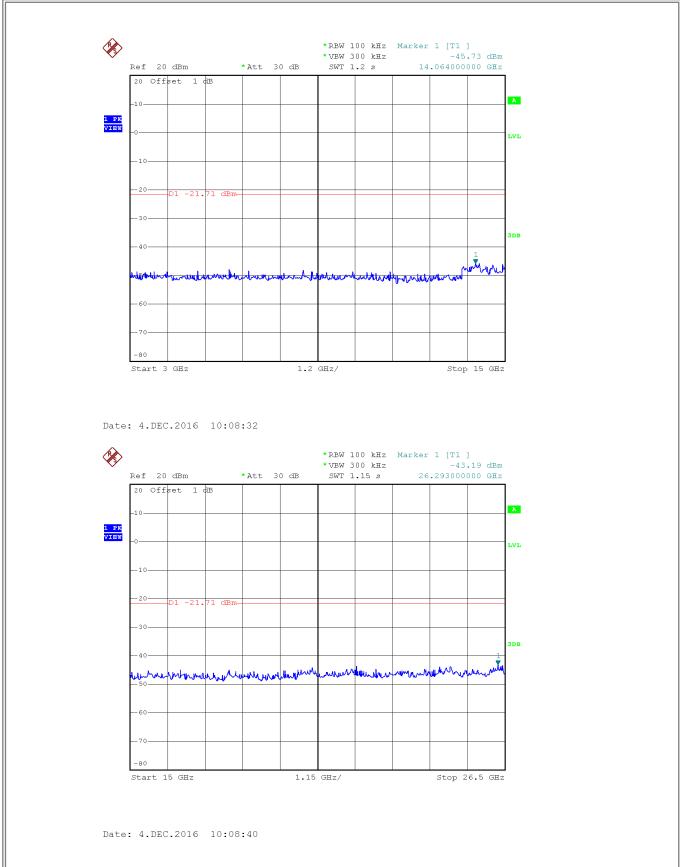


Date: 4.DEC.2016 10:08:24

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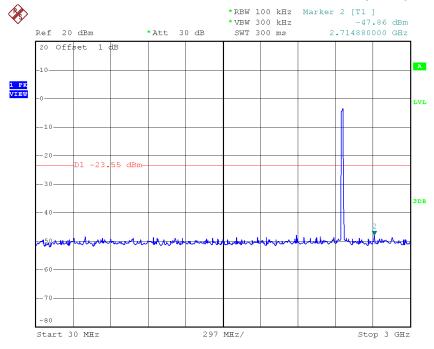


Report No.: BTL-FCCP-1-1611C131

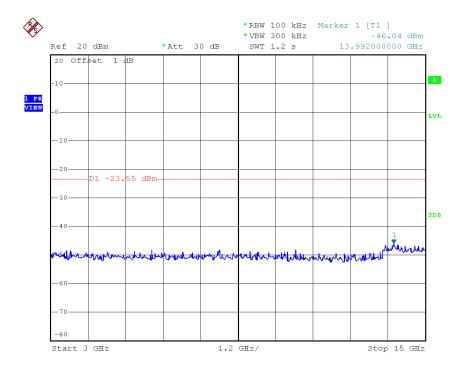




TX G mode CH11 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:09:30

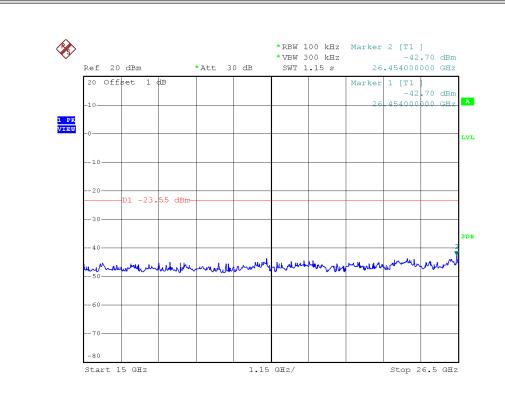


Date: 4.DEC.2016 10:09:39

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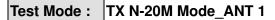


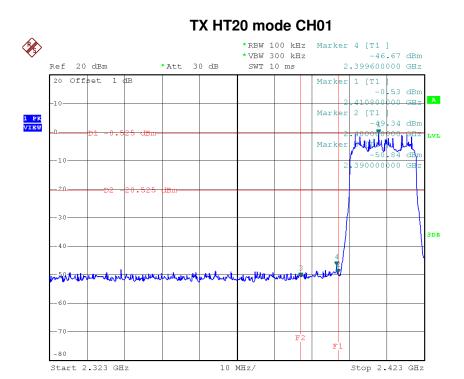
Date: 4.DEC.2016 10:09:47

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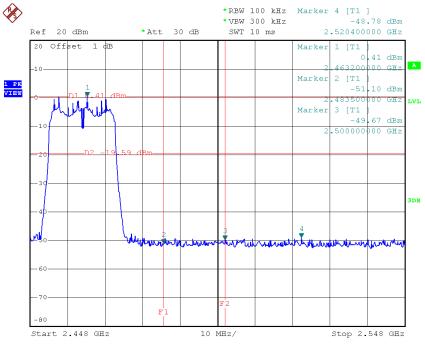






Date: 4.DEC.2016 10:12:07

TX HT20 mode CH11

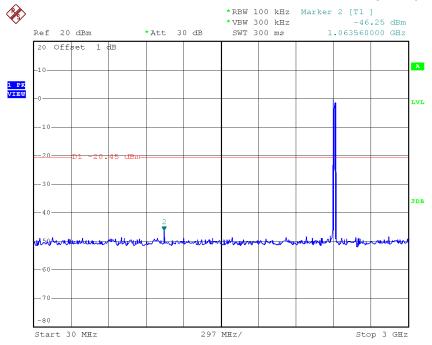


Date: 4.DEC.2016 10:14:26

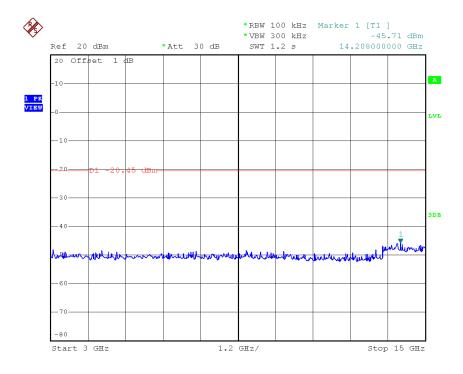




TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:11:43

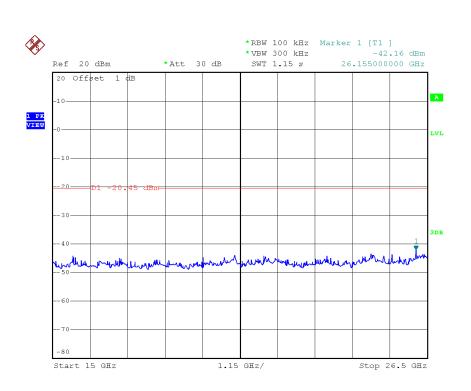


Date: 4.DEC.2016 10:11:51

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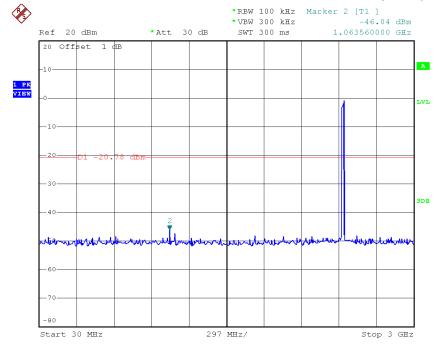






Date: 4.DEC.2016 10:11:59

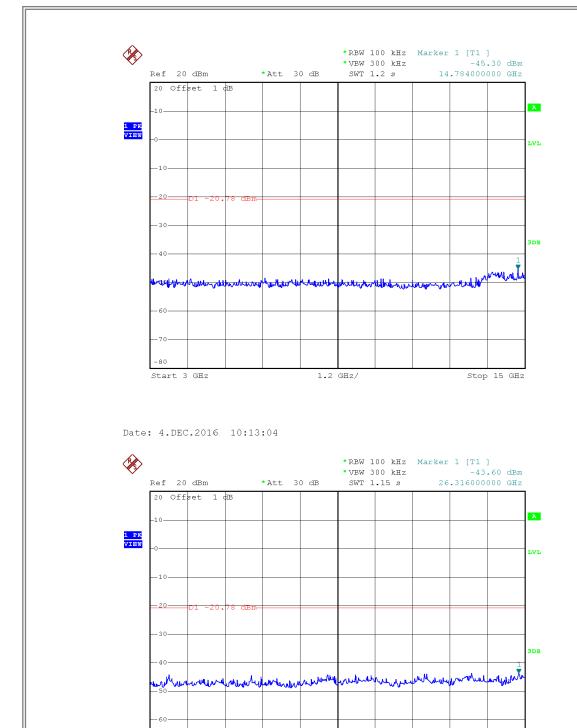
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:12:56







1.15 GHz/

Date: 4.DEC.2016 10:13:21

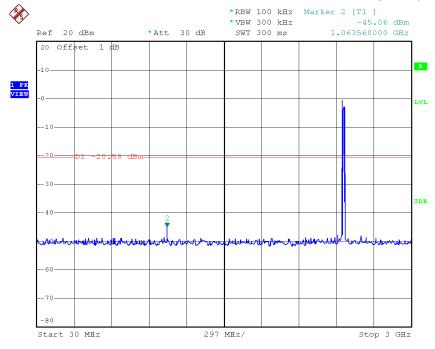
Start 15 GHz

Stop 26.5 GHz

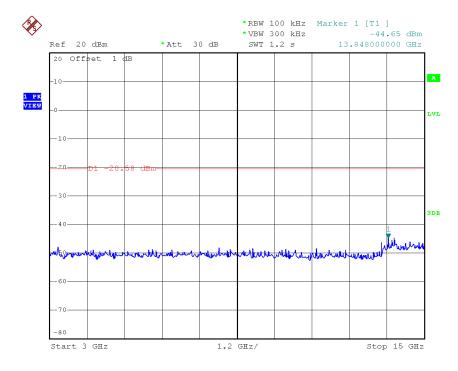




TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:14:01

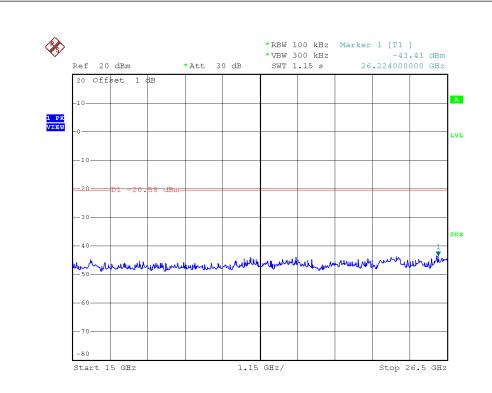


Date: 4.DEC.2016 10:14:10

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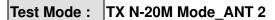


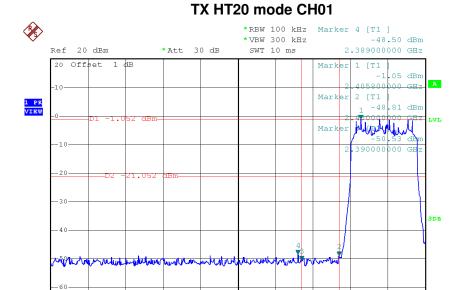
Date: 4.DEC.2016 10:14:18

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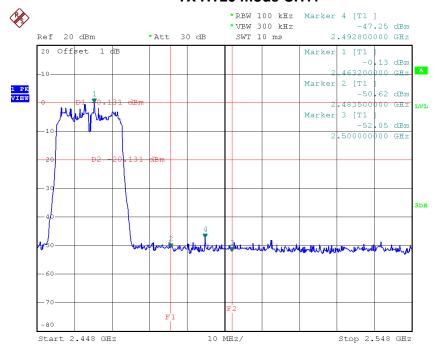
Date: 4.DEC.2016 10:15:55

Start 2.323 GHz

TX HT20 mode CH11

Stop 2.423 GHz

10 MHz/

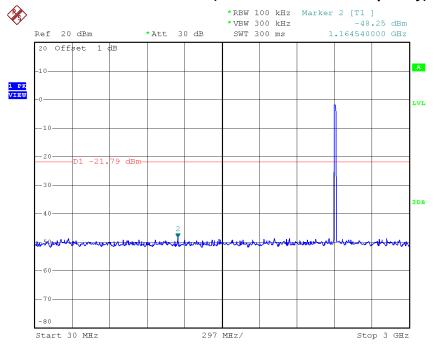


Date: 4.DEC.2016 10:18:31

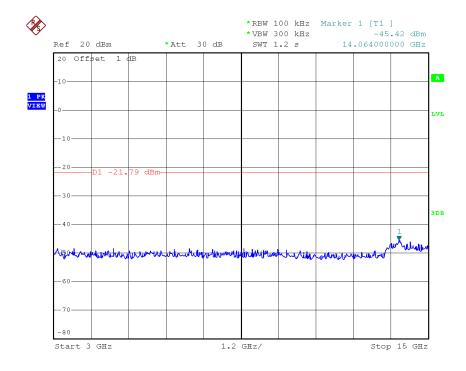




TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:15:31

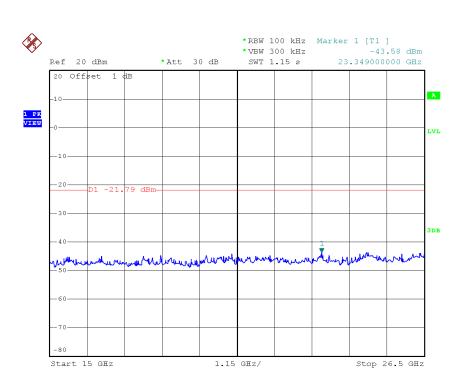


Date: 4.DEC.2016 10:15:39

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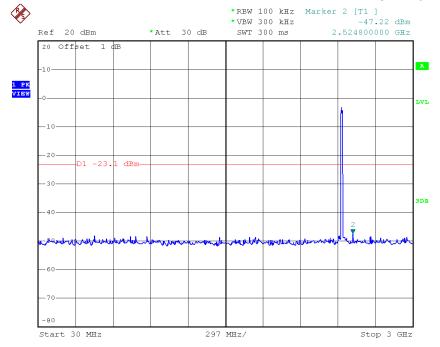






Date: 4.DEC.2016 10:15:47

TX HT20 mode CH06 (10 Harmonic of the frequency)

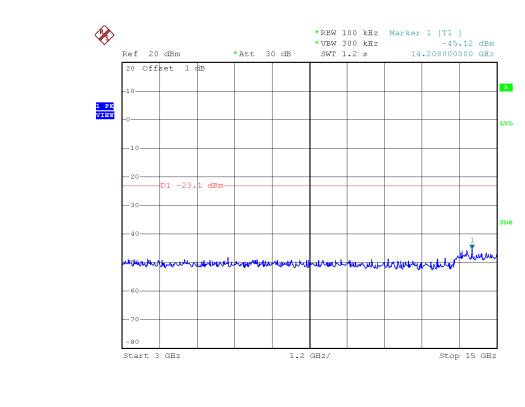


Date: 4.DEC.2016 10:16:49

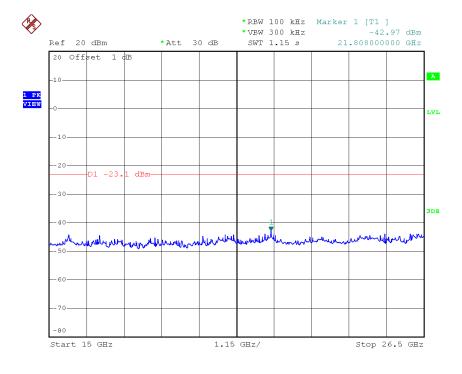
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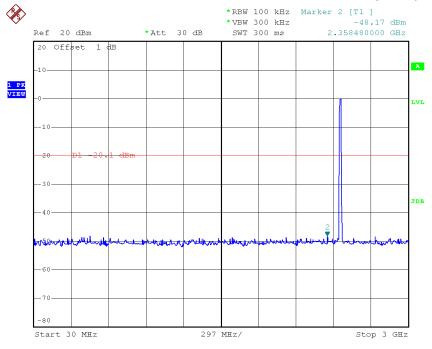
Date: 4.DEC.2016 10:17:06

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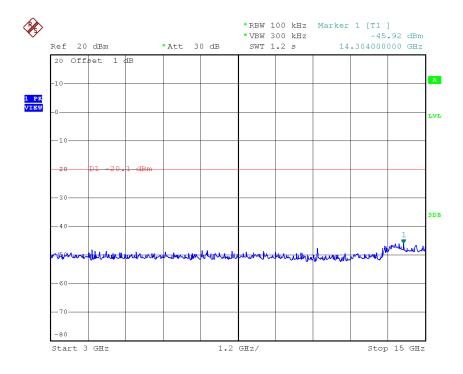




TX HT20 mode CH11 (10 Harmonic of the frequency)



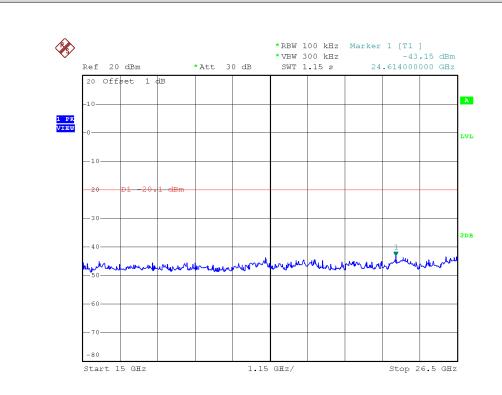
Date: 4.DEC.2016 10:18:06



Date: 4.DEC.2016 10:18:14





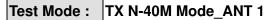


Date: 4.DEC.2016 10:18:23

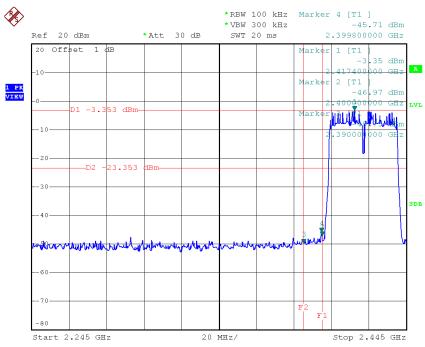
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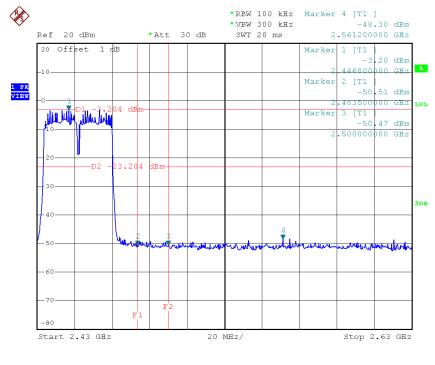






Date: 4.DEC.2016 10:20:29

TX HT40 mode CH09

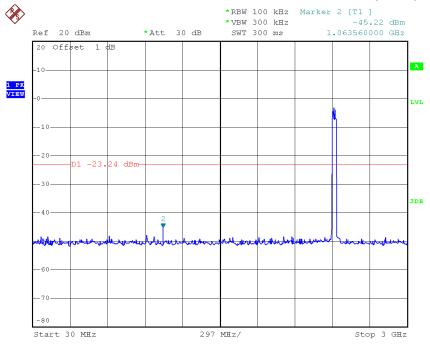


Date: 4.DEC.2016 10:23:48

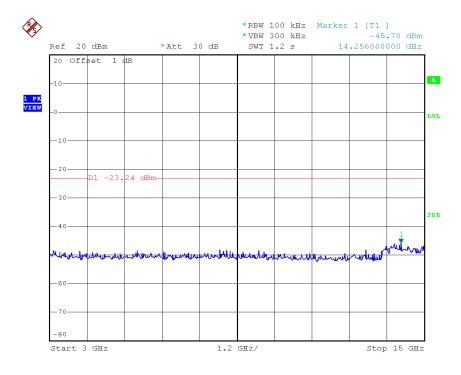




TX HT40 mode CH03 (10 Harmonic of the frequency)



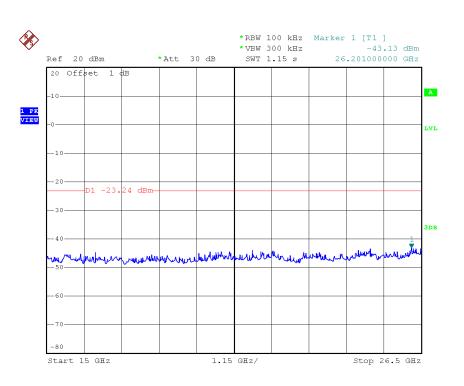
Date: 4.DEC.2016 10:20:04



Date: 4.DEC.2016 10:20:13

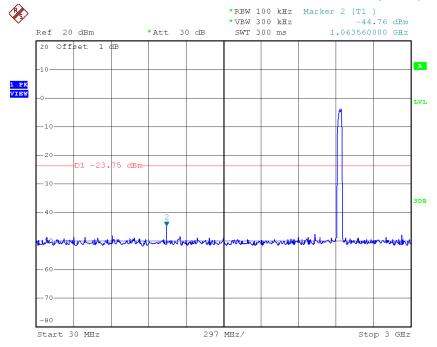






Date: 4.DEC.2016 10:20:21

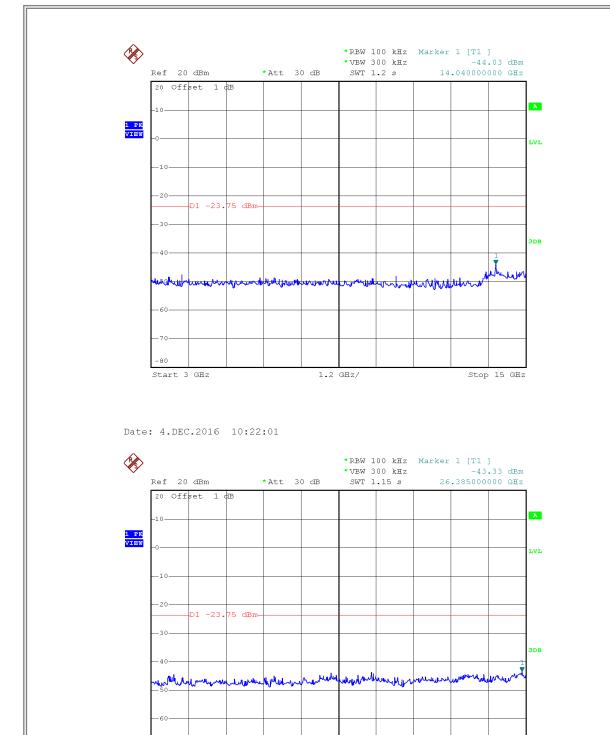
TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:21:53







1.15 GHz/

Stop 26.5 GHz

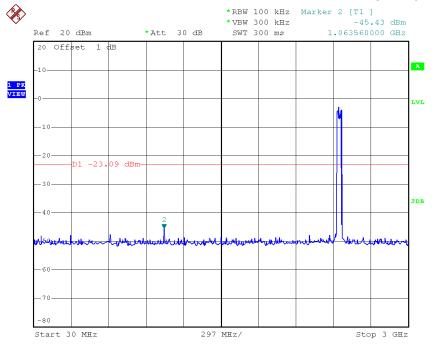
Date: 4.DEC.2016 10:22:09

Start 15 GHz

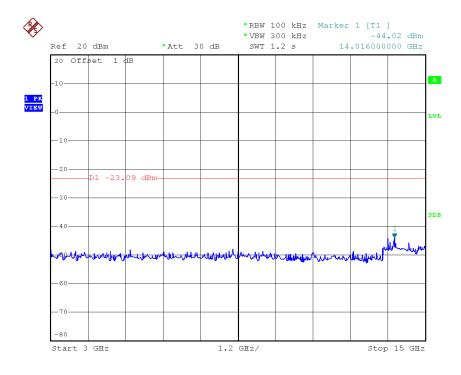




TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:23:24

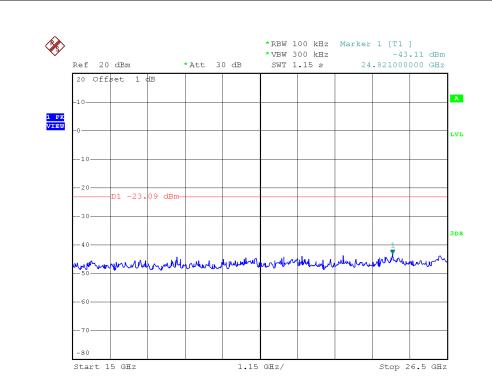


Date: 4.DEC.2016 10:23:32

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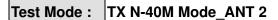


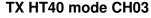
Date: 4.DEC.2016 10:23:41

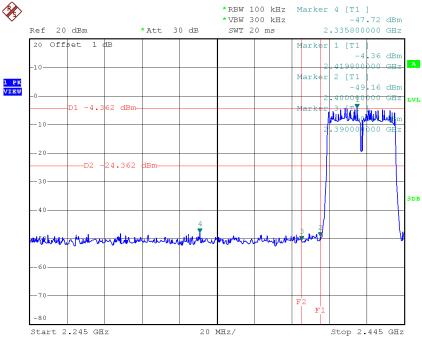
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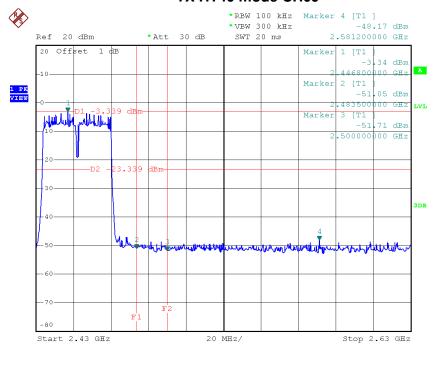






Date: 4.DEC.2016 10:27:01

TX HT40 mode CH09

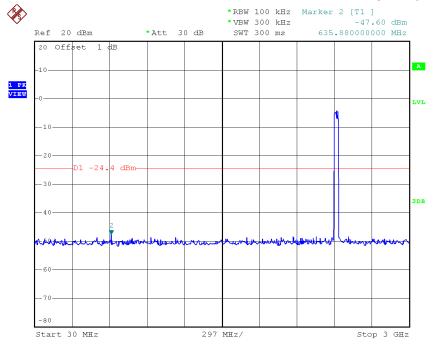


Date: 4.DEC.2016 10:29:22

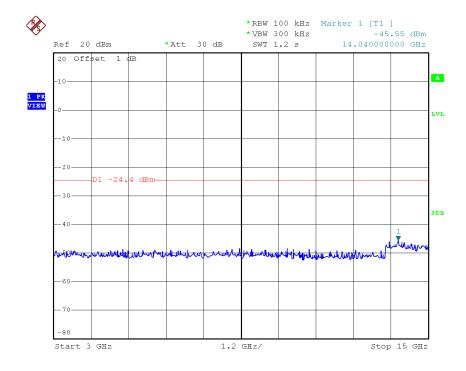




TX HT40 mode CH03 (10 Harmonic of the frequency)



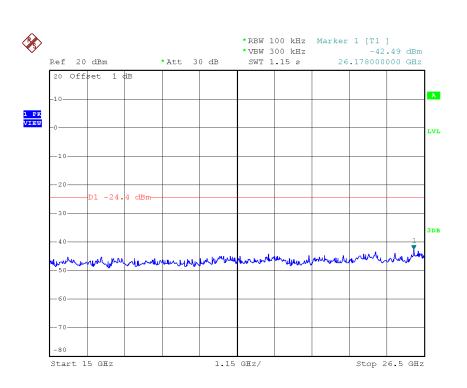
Date: 4.DEC.2016 10:26:36



Date: 4.DEC.2016 10:26:45

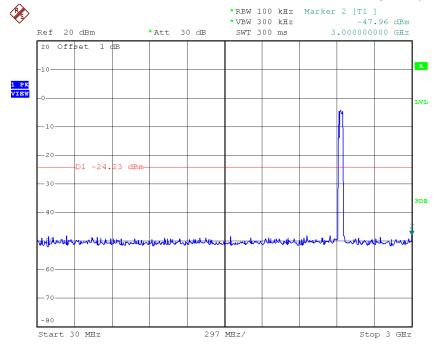






Date: 4.DEC.2016 10:26:53

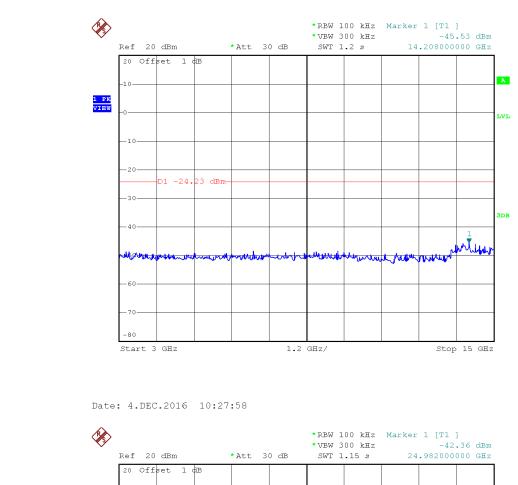
TX HT40 mode CH06 (10 Harmonic of the frequency)

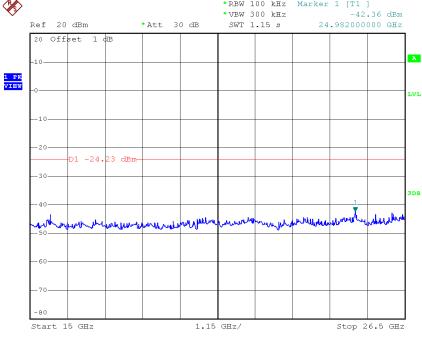


Date: 4.DEC.2016 10:27:50









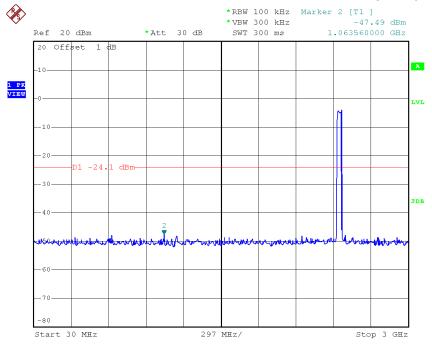
Date: 4.DEC.2016 10:28:07

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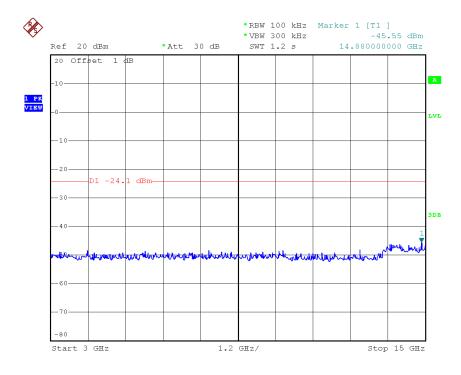




TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 4.DEC.2016 10:28:58

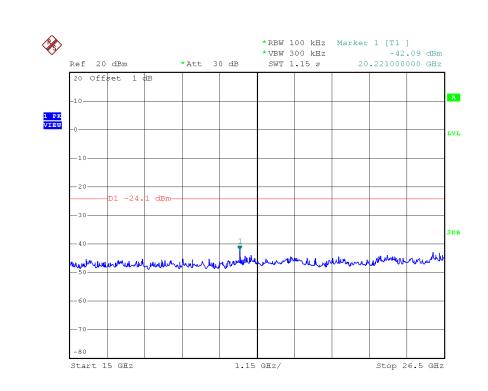


Date: 4.DEC.2016 10:29:06

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Date: 4.DEC.2016 10:29:15

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ATTACHMENT H - POWER SPECTRAL DENSITY

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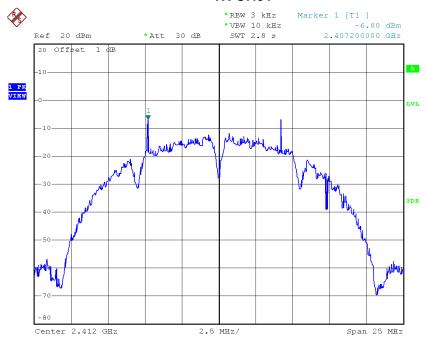




Test Mode :TX B Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-6.80	0.2089	8.00	Complies
2437	-10.30	0.0933	8.00	Complies
2462	-10.59	0.0873	8.00	Complies

TX CH01

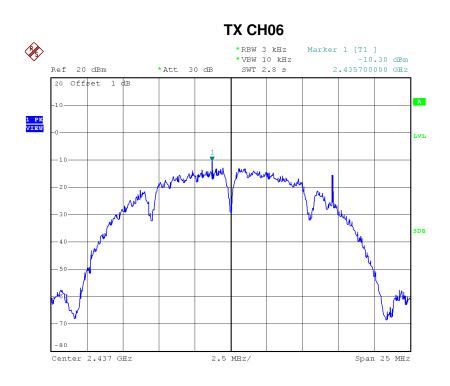


Date: 4.DEC.2016 09:51:44

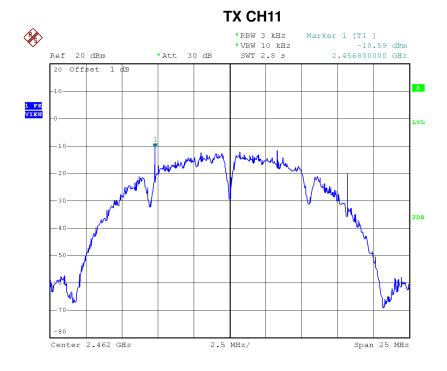
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Date: 4.DEC.2016 09:53:48



Date: 4.DEC.2016 09:55:30

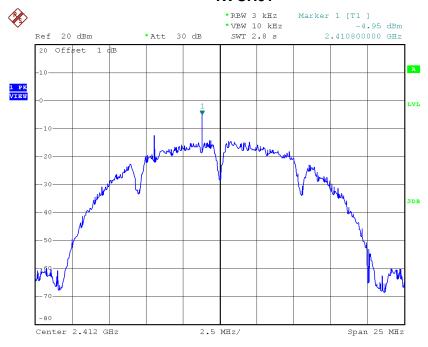




Test Mode :TX B Mode_CH01/06/11_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-4.95	0.3199	8.00	Complies
2437	-5.26	0.2979	8.00	Complies
2462	-7.72	0.1690	8.00	Complies

TX CH01

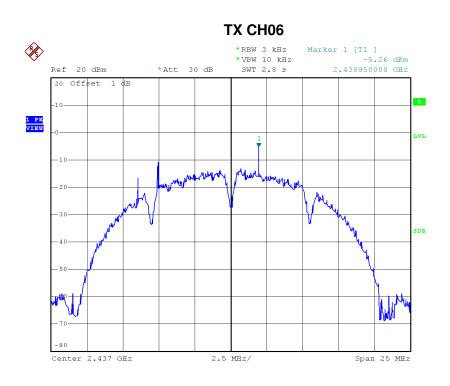


Date: 4.DEC.2016 09:57:30

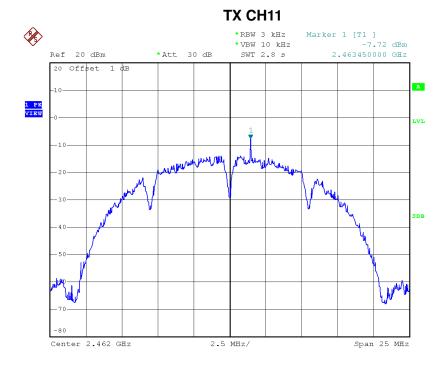
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Date: 4.DEC.2016 09:59:02



Date: 4.DEC.2016 10:00:54





Test Mode :TX B Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-2.77	0.5288	8.00	Complies
2437	-4.08	0.3912	8.00	Complies
2462	-5.91	0.2563	8.00	Complies

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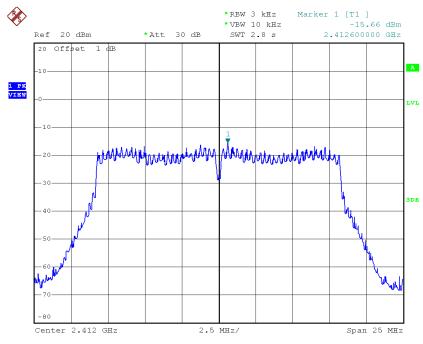




Test Mode :TX G Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.66	0.0272	8.00	Complies
2437	-16.07	0.0247	8.00	Complies
2462	-16.07	0.0247	8.00	Complies

TX CH01

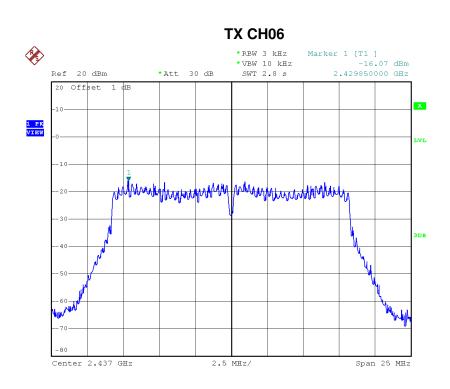


Date: 4.DEC.2016 10:03:11

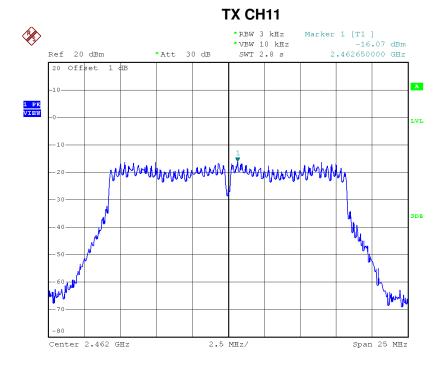
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Date: 4.DEC.2016 10:06:00

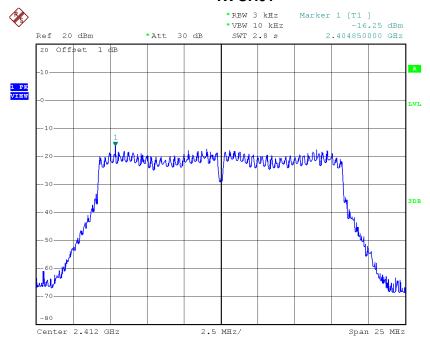




Test Mode :TX G Mode_CH01/06/11_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.25	0.0237	8.00	Complies
2437	-16.85	0.0207	8.00	Complies
2462	-17.05	0.0197	8.00	Complies

TX CH01

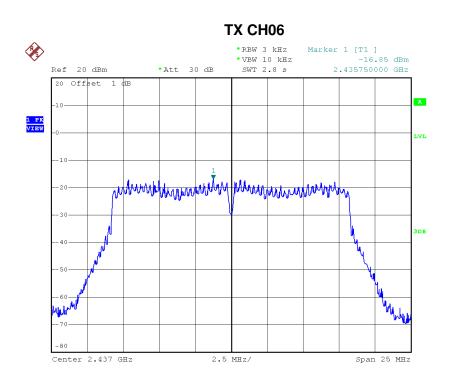


Date: 4.DEC.2016 10:07:30

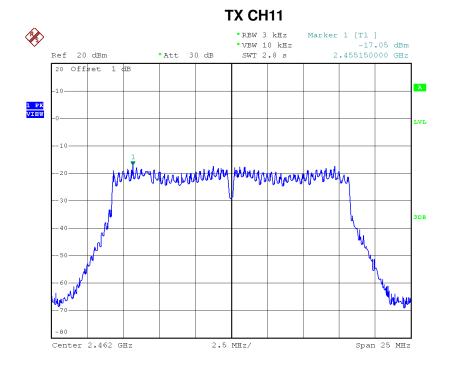
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Date: 4.DEC.2016 10:08:50



Date: 4.DEC.2016 10:10:04





Test Mode :TX G Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.93	0.0509	8.00	Complies
2437	-13.43	0.0454	8.00	Complies
2462	-13.53	0.0444	8.00	Complies

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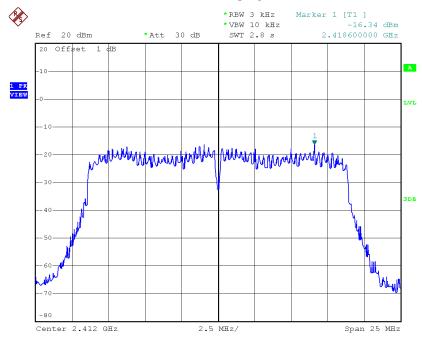




Test Mode: TX N-20M Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.34	0.0232	8.00	Complies
2437	-16.67	0.0215	8.00	Complies
2462	-16.31	0.0234	8.00	Complies

TX CH01

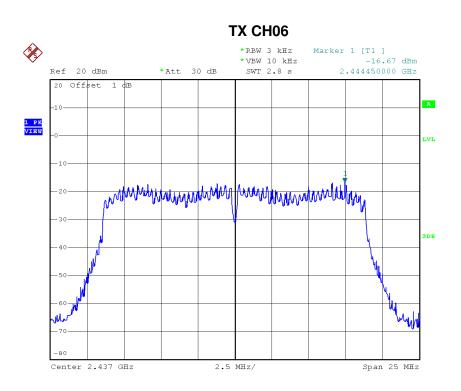


Date: 4.DEC.2016 10:12:16

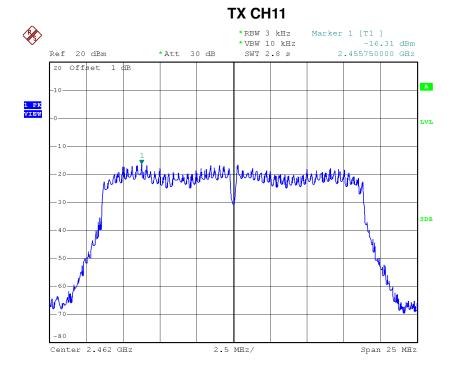
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Date: 4.DEC.2016 10:14:35

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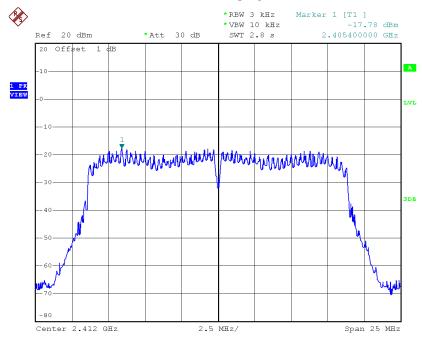




Test Mode: TX N-20M Mode_CH01/06/11_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-17.78	0.0167	8.00	Complies
2437	-17.55	0.0176	8.00	Complies
2462	-16.32	0.0233	8.00	Complies

TX CH01

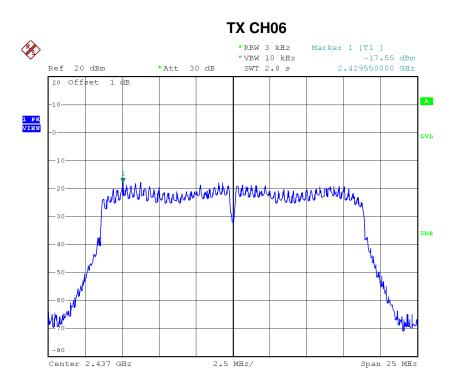


Date: 4.DEC.2016 10:16:04

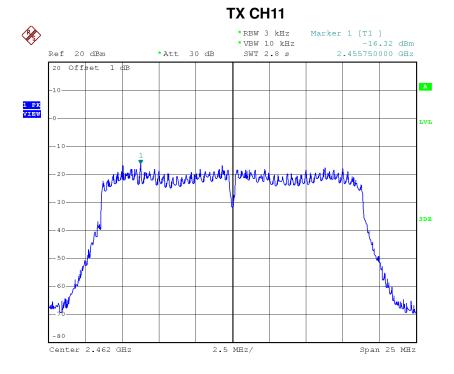
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Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency	Power Density	Power Density	Max. Limit	Result
(MHz)	(dBm/3kHz)	(mW/3kHz)	(dBm/3kHz)	
2412	-13.99	0.0399	8.00	Complies
2437	-14.08	0.0391	8.00	Complies
2462	-13.31	0.0467	8.00	Complies

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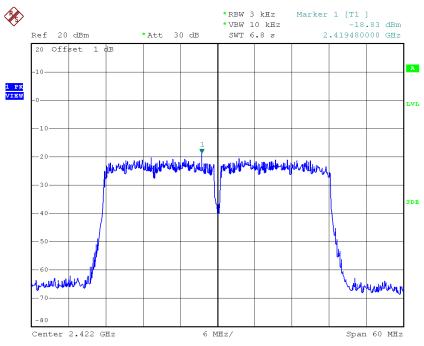




Test Mode: TX N-40M Mode_CH03/06/09_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.83	0.0131	8.00	Complies
2437	-19.52	0.0112	8.00	Complies
2452	-19.15	0.0122	8.00	Complies

TX CH03

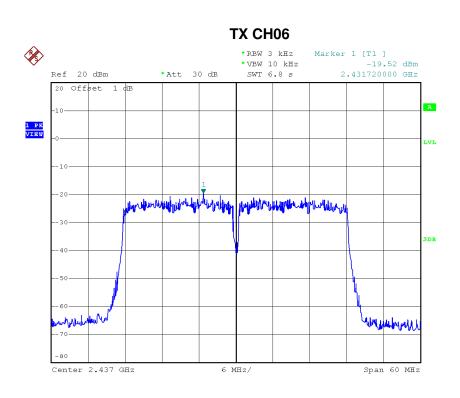


Date: 4.DEC.2016 10:20:41

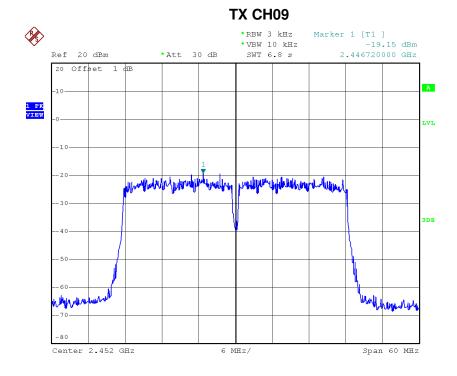
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Date: 4.DEC.2016 10:24:01

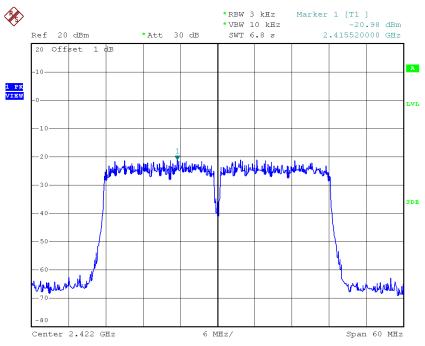




Test Mode: TX N-40M Mode_CH03/06/09_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-20.98	0.0080	8.00	Complies
2437	-19.06	0.0124	8.00	Complies
2452	-18.97	0.0127	8.00	Complies

TX CH03

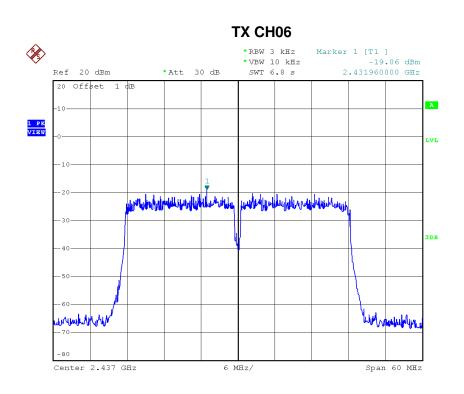


Date: 4.DEC.2016 10:27:13

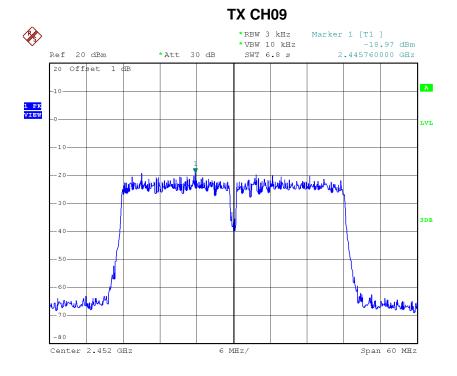
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Date: 4.DEC.2016 10:29:35





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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.76	0.0211	8.00	Complies
2437	-16.27	0.0236	8.00	Complies
2452	-16.04	0.0249	8.00	Complies

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