

FCC Radio Test Report

FCC ID: Q87-RE6250

This report concerns (check one): Original Grant Changed in ID

Project No. : 1702159
Equipment : WiFi repeater
Model Name : RE6250
Applicant : Linksys LLC
Address : 121 Theory Drive, Irvine, CA, 92617, USA

Date of Receipt : Jul. 29, 2016
Date of Test : Jul. 29, 2016 ~ Oct. 10, 2016
Issued Date : Nov. 04, 2016
Tested by : BTL Inc.

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Table of Contents	Page
1 . CERTIFICATION	7
2 . SUMMARY OF TEST RESULTS	8
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	9
3 . GENERAL INFORMATION	10
3.1 GENERAL DESCRIPTION OF EUT	10
3.2 DESCRIPTION OF TEST MODES	12
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	15
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	15
3.5 DESCRIPTION OF SUPPORT UNITS	15
4 . EMC EMISSION TEST	16
4.1 CONDUCTED EMISSION MEASUREMENT	16
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	16
4.1.2 TEST PROCEDURE	16
4.1.3 DEVIATION FROM TEST STANDARD	16
4.1.4 TEST SETUP	17
4.1.5 EUT OPERATING CONDITIONS	17
4.1.6 EUT TEST CONDITIONS	17
4.1.7 TEST RESULTS	17
4.2 RADIATED EMISSION MEASUREMENT	18
4.2.1 RADIATED EMISSION LIMITS	18
4.2.2 TEST PROCEDURE	19
4.2.3 DEVIATION FROM TEST STANDARD	19
4.2.4 TEST SETUP	20
4.2.5 EUT OPERATING CONDITIONS	21
4.2.6 EUT TEST CONDITIONS	21
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	22
4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)	22
4.2.9 TEST RESULTS (1GHZ~10TH HARMONIC)	22
4.3 BAND EDGE MEASUREMENT	23
4.3.1 RADIATED EMISSION LIMITS	23
4.3.2 TEST PROCEDURE	24
4.3.3 TEST SETUP LAYOUT	24
4.3.4 DEVIATION FROM TEST STANDARD	24
4.3.5 EUT OPERATING CONDITIONS	24
4.3.6 TEST RESULTS (BAND EDGE AND FUNDAMENTAL EMISSIONS)	24
5 . BANDWIDTH TEST	25
5.1 APPLIED PROCEDURES	25
5.1.1 TEST PROCEDURE	25

Table of Contents

	Page
5.1.2 DEVIATION FROM STANDARD	25
5.1.3 TEST SETUP	25
5.1.4 EUT OPERATION CONDITIONS	25
5.1.5 EUT TEST CONDITIONS	25
5.1.6 TEST RESULTS	25
6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST	26
6.1 APPLIED PROCEDURES / LIMIT	26
6.1.1 TEST PROCEDURE	26
6.1.2 DEVIATION FROM STANDARD	26
6.1.3 TEST SETUP	26
6.1.4 EUT OPERATION CONDITIONS	26
6.1.5 EUT TEST CONDITIONS	26
6.1.6 TEST RESULTS	26
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	27
7.1 APPLIED PROCEDURES / LIMIT	27
7.1.1 TEST PROCEDURE	27
7.1.2 DEVIATION FROM STANDARD	27
7.1.3 TEST SETUP	27
7.1.4 EUT OPERATION CONDITIONS	27
7.1.5 EUT TEST CONDITIONS	27
7.1.6 TEST RESULTS	27
8 . POWER SPECTRAL DENSITY TEST	28
8.1 APPLIED PROCEDURES / LIMIT	28
8.1.1 TEST PROCEDURE	28
8.1.2 DEVIATION FROM STANDARD	28
8.1.3 TEST SETUP	28
8.1.4 EUT OPERATION CONDITIONS	28
8.1.5 EUT TEST CONDITIONS	28
8.1.6 TEST RESULTS	28
9 . MEASUREMENT INSTRUMENTS LIST	29
10 . EUT TEST PHOTO	31
ATTACHMENT A - CONDUCTED EMISSION	35
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	42
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	55
ATTACHMENT D - RADIATED EMISSION (1GHZ~10TH HARMONIC)	62
ATTACHMENT E - BAND EDGE AND FUNDAMENTAL EMISSIONS	87
ATTACHMENT F - BANDWIDTH	112
ATTACHMENT G – MAXIMUM PEAK CONDUCTED OUTPUT POWER	121

Table of Contents**Page**

ATTACHMENT H - ANTENNA CONDUCTED SPURIOUS EMISSION	125
ATTACHMENT I - POWER SPECTRAL DENSITY	168

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-3-1702159	Original Issue.	Mar. 06, 2017

1. CERTIFICATION

Equipment : WiFi repeater
Brand Name : Linksys
Model Name : RE6250
Applicant : Linksys LLC
Date of Test : Jul. 29, 2016 ~ Oct. 10, 2016
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-3-1702159) 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).

Test results included in this report is only for the 2.4G WIFI part.

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15 (15.247), Subpart C			
Standard(s) Section	Test Item	Judgment	Under Limit
15.207	Conducted Emission	PASS	Limit Minimum passing margin is -4.63 dB at 0.5540 MHz
15.247(d)	Antenna conducted Spurious Emission	PASS	-----
15.247(a)(2)	6dB Bandwidth	PASS	-----
15.247(b)(3)	Peak Output Power	PASS	Limit Maximum output power is 25.68 dBm
15.247(e)	Power Spectral Density	PASS	-----
15.203	Antenna Requirement	PASS	-----
15.209/15.205	Transmitter Radiated Emissions	PASS	Limit Minimum passing margin is -3.00 dB at 4874.000 MHz
15.247(d)	Band Edge Emissions	PASS	Limit Minimum passing margin is -1.01 dB at 2389.932 MHz

NOTE:

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

2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

Conducted emission Test:

C05: (VCCI RN: C-4742; FCC RN:965108; FCC DN:TW1082)
 No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Below 1 GHz):

CB11: (VCCI RN: R-4260; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088)
 No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

Radiated emission Test (Above 1 GHz):

CB11: (VCCI RN: G-868; FCC RN:949005; FCC DN:TW1082; IC Assigned Code:20088)
 No. 68-1, Ln. 169, Sec.2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

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_{cisp}^r 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 emission test:

Test Site	Method	Measurement Frequency Range	$U, (\text{dB})$
C05	CISPR	150 kHz~30MHz	3.20

B. Radiated emission test:

Test Site	Method	Measurement Frequency Range	$U, (\text{dB})$
CB11 (3m)	CISPR	9kHz ~ 150kHz	2.66
		150kHz ~ 30MHz	2.42

Test Site	Method	Measurement Frequency Range	Ant. H / V	$U, (\text{dB})$
CB11 (3m)	CISPR	30MHz ~ 200MHz	V	4.04
		30MHz ~ 200MHz	H	3.76
		200MHz ~ 1,000MHz	V	4.24
		200MHz ~ 1,000MHz	H	3.84

Test Site	Method	Measurement Frequency Range	Ant. H / V	$U, (\text{dB})$
CB11 (3m)	CISPR	1GHz ~ 6GHz	V	4.46
		1GHz ~ 6GHz	H	4.40
		6GHz ~ 18GHz	V	4.18
		6GHz ~ 18GHz	H	4.34

Test Site	Method	Measurement Frequency Range	$U, (\text{dB})$
CB11 (1m)	CISPR	18 ~ 26.5 GHz	4.80
		26.5 ~ 40 GHz	5.28

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) – 150 kHz – 30 MHz: 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz: 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	WiFi repeater				
Brand Name	Linksys				
Model Name	RE6250				
Model Difference	N/A				
Product Description	Operation Frequency	2412~2462 MHz			
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM			
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps			
	Output Power (Max.)	802.11b: 14.61 dBm 802.11g: 25.68 dBm 802.11n(20MHz): 25.36 dBm 802.11n(40MHz): 25.62 dBm			
Power Source	AC Mains Power Board: #1 Brand / Model: HON-KWANG / HK-XX12-A12 #2 Brand / Model: AMIGO / AMS174-1201000F #3 Brand / Model: UMEC / UP0121B-12				
Power Rating	I/P: 100-240V~50/60Hz 500mA O/P: 12V 1A				

Note:

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

CH01 – CH11 for 802.11b, 802.11g, 802.11n(20MHz) CH03 – CH09 for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

3. Table for Filed Antenna:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Airgain	N/A	PCB	N/A	2.5	TX/RX
2	Airgain	N/A	PCB	N/A	2.5	TX/RX

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).
- (2) For Conducted Output Power (CDD mode)
 - * 802.11b : Gain = 2.5 dBi < 6dBi
 - * 802.11g : Directional Gain = Gain = 2.5 dBi < 6dBi
 - * 802.11n_HT20 : Directional Gain = Gain = 2.5 dBi < 6dBi
 - * 802.11n_HT40 : Directional Gain = Gain = 2.5 dBi < 6dBi
- (3) For Power Spectral Density (CDD mode)
 - * 802.11b : Gain = 2.5 dBi < 6dBi
 - * 802.11g : Directional Gain =

$$10 \log \{ [10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / NANT \} = 5.51 \text{ dBi} < 6 \text{ dBi}$$
 - * 802.11n_HT20 : Directional Gain =

$$10 \log \{ [10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / NANT \} = 5.51 \text{ dBi} < 6 \text{ dBi}$$
 - * 802.11n_HT40 : Directional Gain =

$$10 \log \{ [10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / NANT \} = 5.51 \text{ dBi} < 6 \text{ dBi}$$

4.

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

Note:

For IEEE 802.11b mode (1TX/1RX):

The EUT supports the antenna with TX and RX diversity functions.

Both Ant. 1 and Ant. 2 support transmit and receive functions, but only one of them will be used at one time.

The Ant. 1 generated the worst case, so it was selected to test and record in the report.

For IEEE 802.11g/n mode (2TX/2RX):

Both Ant. 1 and Ant. 2 can be used as transmitting/receiving antenna.

Ant. 1 and Ant. 2 could both transmit/receive simultaneously.

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	Normal Link

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	Normal Link

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

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

Antenna conducted Spurious Emission	
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:

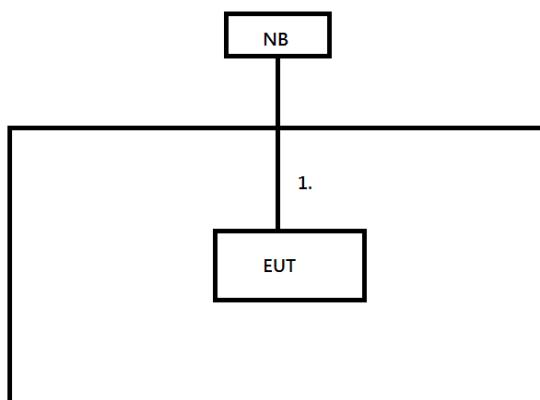
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For 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%.
- (5) The EUT was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

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	ART		
Frequency (MHz)	2412	2437	2462
802.11b	16	16	16
802.11g	22	22	22
802.11n (20MHz)	1D	1D	1D
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	19	19	19

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.
A	Notebook PC	Acer	TravelMate P446	DOC	NXVAJTA0015520042 C7600

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

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)

Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

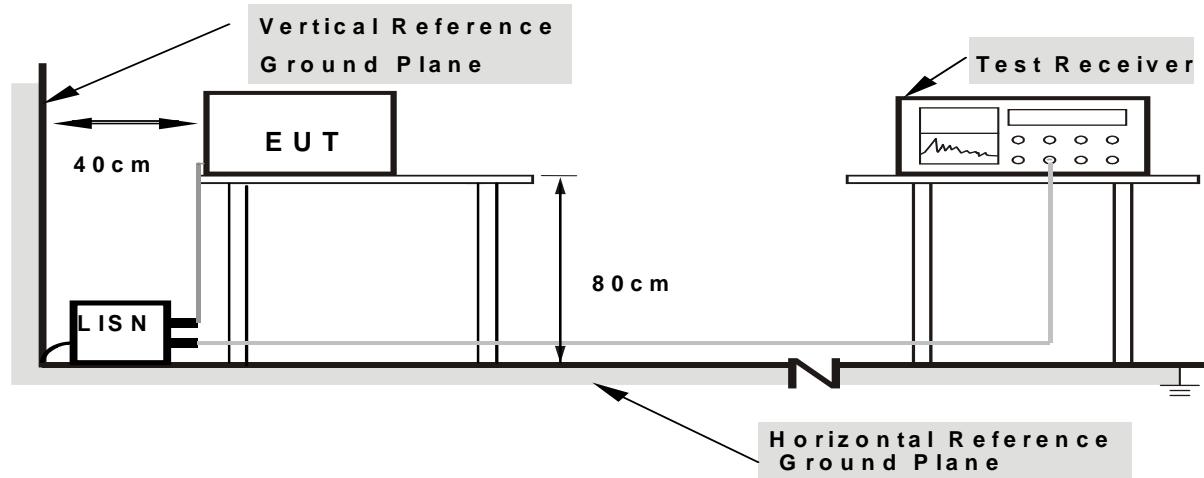
4.1.2 TEST PROCEDURE

- 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 equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.
- 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.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

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 cm 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.

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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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)	(dB _{UV} /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 (dB_{UV}/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

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

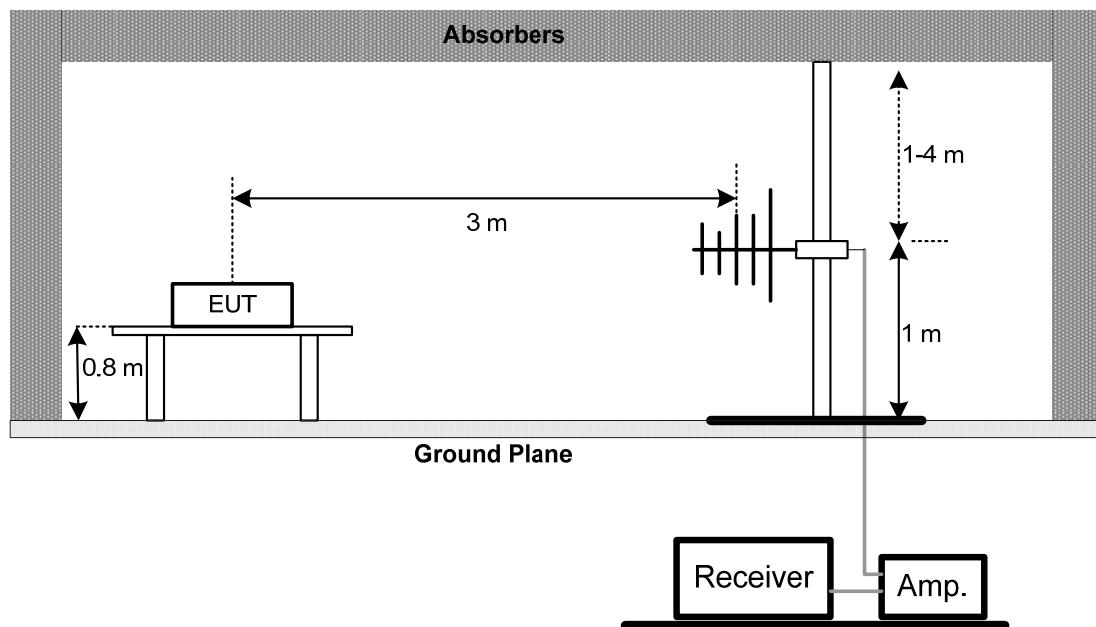
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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).
- 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.
- 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.
- 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)
- 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)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

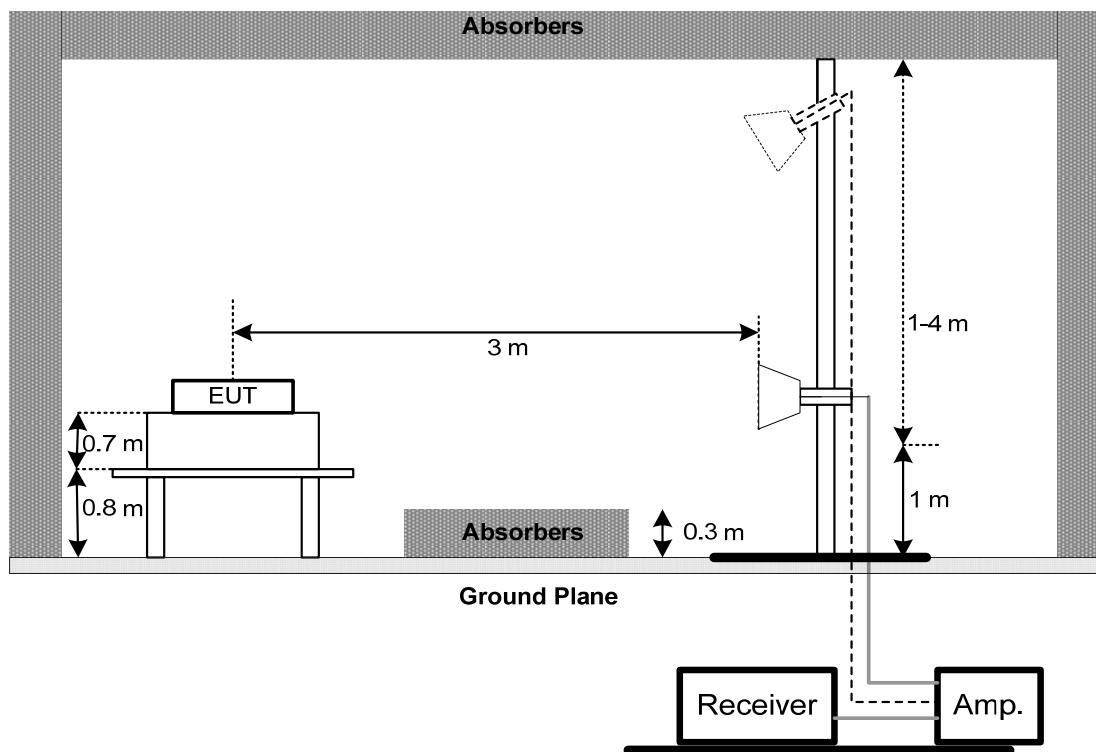
No deviation

4.2.4 TEST SETUP

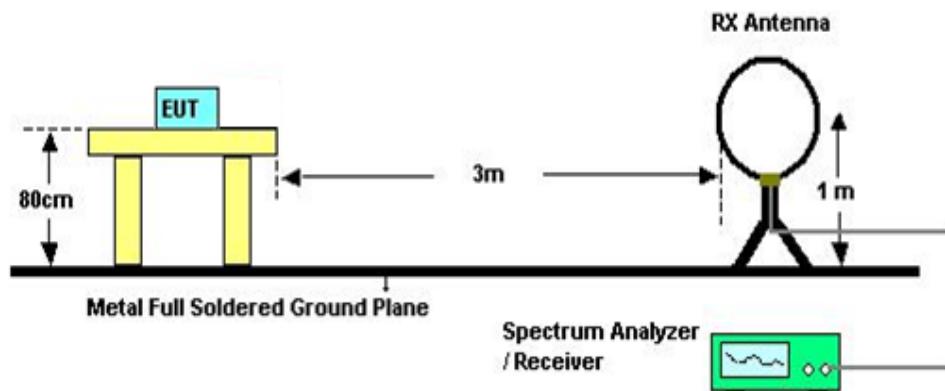
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(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: 65% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (1GHZ~10TH HARMONIC)

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.

4.3 BAND EDGE MEASUREMENT

4.3.1 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 (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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

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

4.3.2 TEST PROCEDURE

For Radiated band edges Measurement:

- a. The test procedure is the same as section 4.2.2, only the frequency range investigated is limited to 100MHz around band edges.

For Radiated Out of Band Emission Measurement:

- a. Test was performed in accordance with KDB 558074 D01 v03r05 for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 10.1 Unwanted Emissions into Non-Restricted Frequency Bands Measurement Procedure.

4.3.3 TEST SETUP LAYOUT

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.2.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.2.4.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.3.6 TEST RESULTS (BAND EDGE AND FUNDAMENTAL EMISSIONS)

Please refer to the Attachment E.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



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: 65% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment F.

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

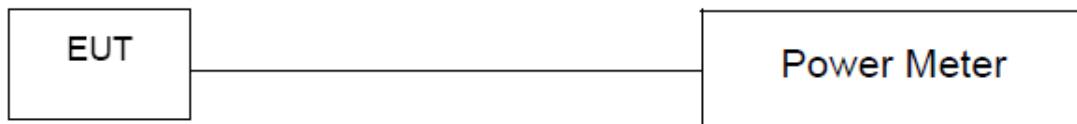
6.1.1 TEST PROCEDURE

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r05 and FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



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: 65% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment G.

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



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: 65% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment H.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

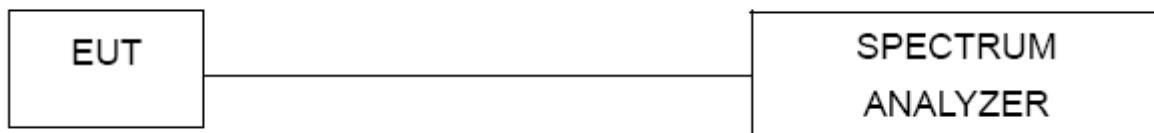
8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



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: 65% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment I.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	TWO-LINE V-NETWORK	R&S	ENV216	101050	Jan. 26, 2017
2	Test Cable	TIMES	CFD300-NL	C02	Jun. 15, 2017
3	EMI Test Receiver	R&S	ESR7	101433	Dec. 10, 2016
4	Measurement Software	EZ	EZ_EMC (Version NB-03A)	N/A	N/A

Radiated Emission & Band edge Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB9168-352	9168-352	Feb. 04, 2017
2	Horn Antenna	Schwarzbeck	BBHA 9120	D-546	Nov. 05, 2017
3	Pre-Amplifier	HP	8447D	2944A08891	Mar. 09 2017
4	Pre-Amplifier	Agilent	8449B	3008A02331	Jan. 24, 2017
5	Test Cable	EMCI	EMC8D-NM-NM-8000	150301	Mar. 09, 2017
6	Test Cable	EMCI	EMC104-SM-SM-2500	150303	Mar. 09, 2017
7	Test Cable	EMCI	EMC104-NM-SM-1000	150304	Mar. 09, 2017
8	Test Cable	EMCI	EMC104-SM-SM-5000	150302	Mar. 29, 2017
9	Test Cable	EMCI	EMC104-SM-SM-800	150305	Mar. 29, 2017
10	EXA Spectrum Analyzer	Agilent	N9010A	MY52220990	Feb. 24, 2017
11	EMI Test Receiver	Agilent	N9038A	MY51210215	Jan. 08, 2017
12	Loop Antenna	EMCO	6502	00042960	Nov. 06. 2016

6dB Bandwidth Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

Peak Output Power Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2495A	1128008	Aug. 17, 2017
2	Power Meter Sensor	Anritsu	MA2491A	034138	Aug. 17, 2017
3	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

Antenna Conducted Spurious Emission Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

Power Spectral Density Measurement

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-40	100129	Jan. 17, 2017

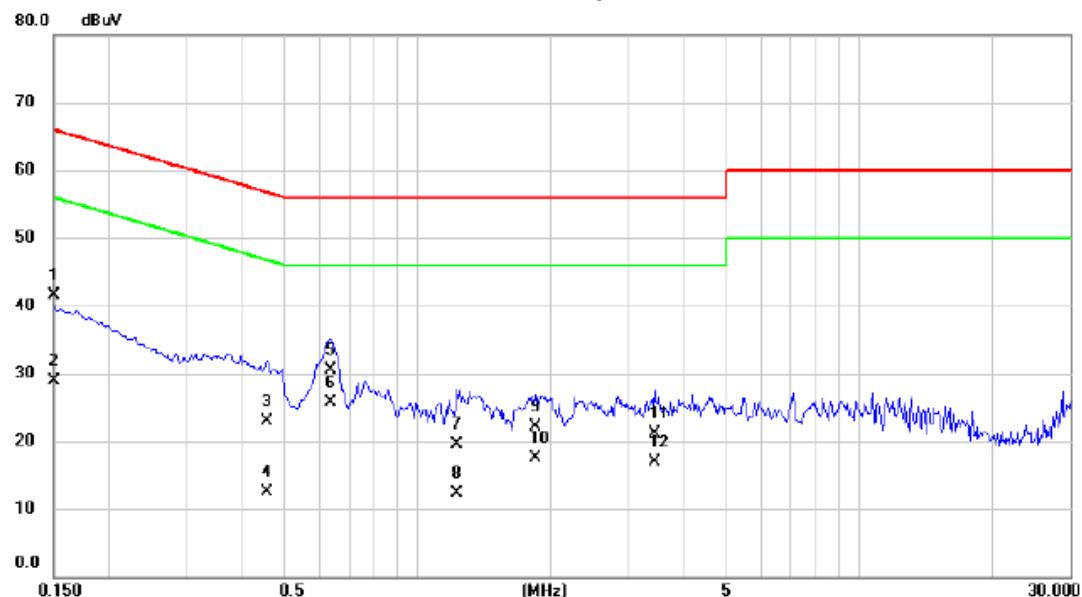
Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

ATTACHMENT A - CONDUCTED EMISSION

Test Mode: Normal Link_Adapter: HON-KWANG / HK-XX12-A12

Line

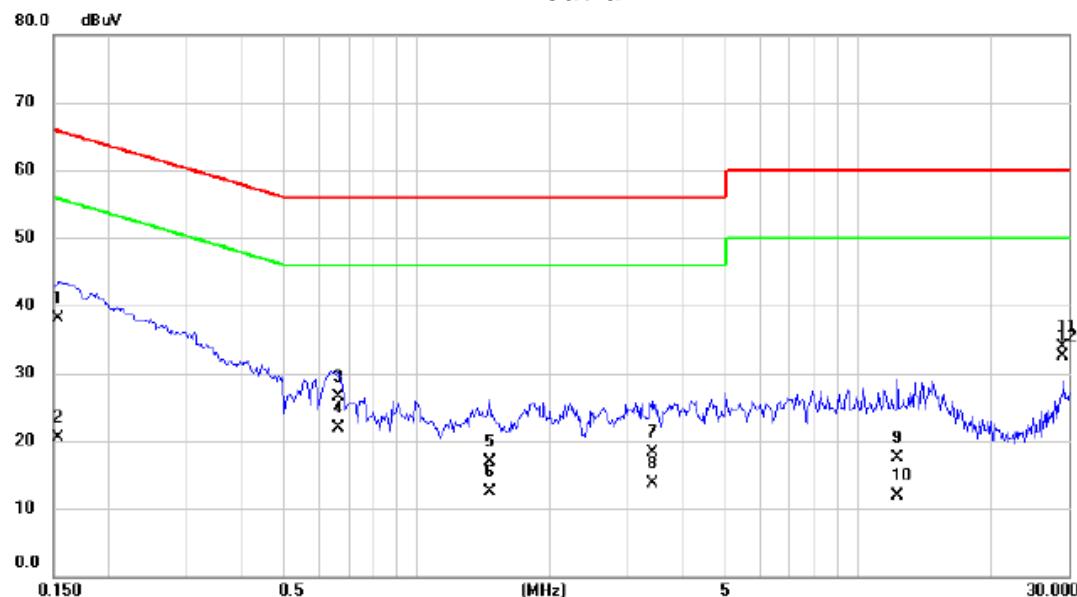


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.1500	31.80	9.66	41.46	66.00	-24.54	QP	
2		0.1500	19.20	9.66	28.86	56.00	-27.14	AVG	
3		0.4573	13.30	9.67	22.97	56.74	-33.77	QP	
4		0.4573	2.90	9.67	12.57	46.74	-34.17	AVG	
5		0.6350	20.80	9.67	30.47	56.00	-25.53	QP	
6	*	0.6350	16.10	9.67	25.77	46.00	-20.23	AVG	
7		1.2290	9.90	9.68	19.58	56.00	-36.42	QP	
8		1.2290	2.70	9.68	12.38	46.00	-33.62	AVG	
9		1.8500	12.40	9.72	22.12	56.00	-33.88	QP	
10		1.8500	7.80	9.72	17.52	46.00	-28.48	AVG	
11		3.4340	11.30	9.77	21.07	56.00	-34.93	QP	
12		3.4340	7.10	9.77	16.87	46.00	-29.13	AVG	

Test Mode:

Normal Link_Adapter: HON-KWANG / HK-XX12-A12

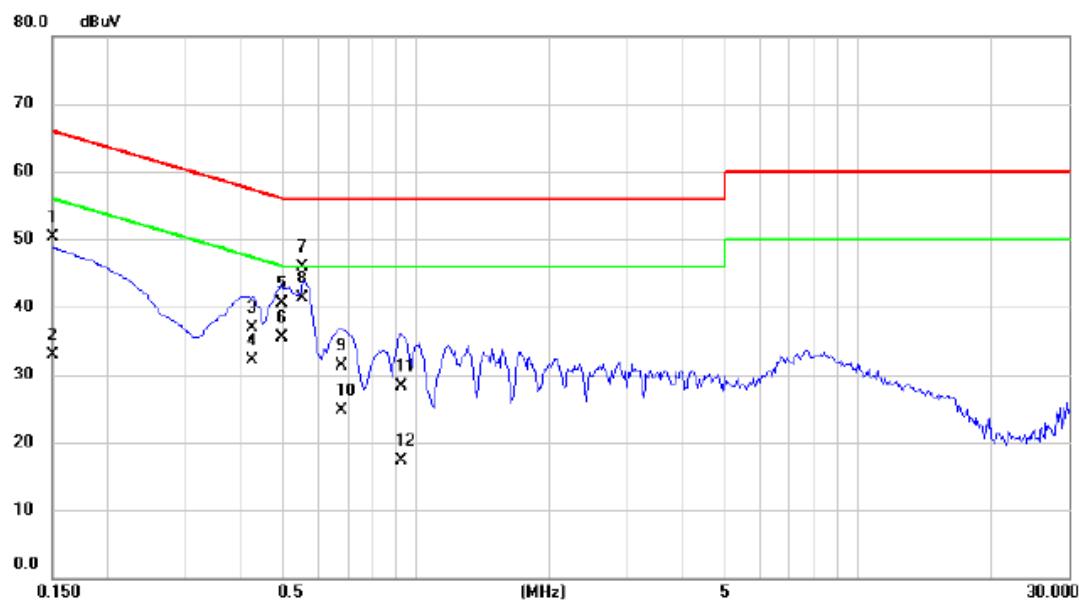
Neutral



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.1542	28.40	9.67	38.07	65.77	-27.70	QP	
2		0.1542	10.90	9.67	20.57	55.77	-35.20	AVG	
3		0.6620	16.90	9.67	26.57	56.00	-29.43	QP	
4		0.6620	12.30	9.67	21.97	46.00	-24.03	AVG	
5		1.4630	7.20	9.70	16.90	56.00	-39.10	QP	
6		1.4630	2.80	9.70	12.50	46.00	-33.50	AVG	
7		3.4250	8.60	9.78	18.38	56.00	-37.62	QP	
8		3.4250	4.00	9.78	13.78	46.00	-32.22	AVG	
9		12.3000	7.70	9.88	17.58	60.00	-42.42	QP	
10		12.3000	2.00	9.88	11.88	50.00	-38.12	AVG	
11		29.1500	24.00	9.99	33.99	60.00	-26.01	QP	
12	*	29.1500	22.50	9.99	32.49	50.00	-17.51	AVG	

Test Mode: Normal Link_Adapter: AMIGO / AMS174-1201000F

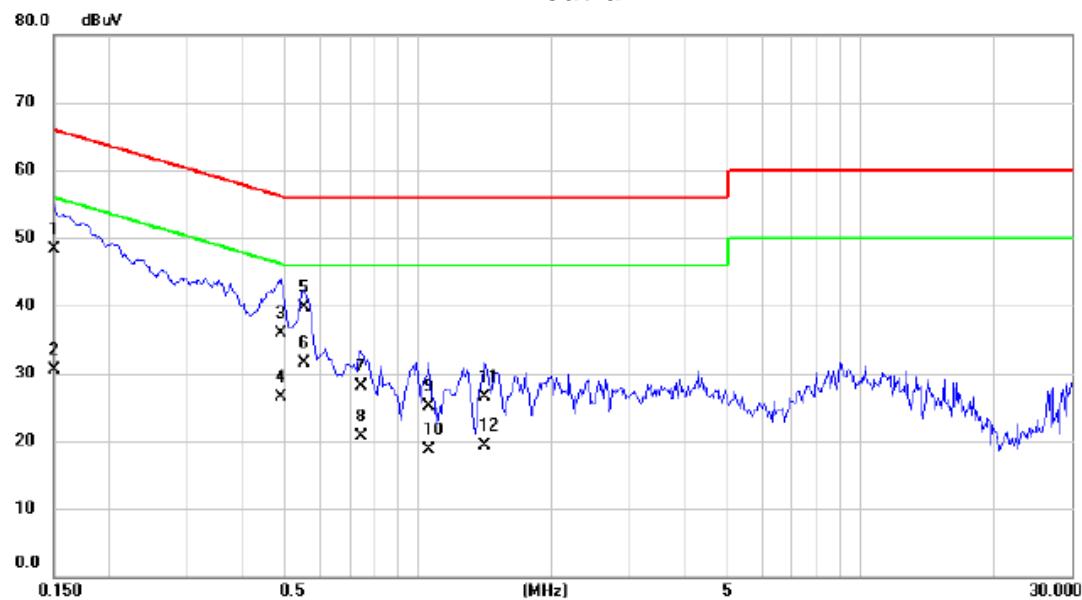
Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Margin	Detector	Comment
1		0.1500	40.60	9.66	50.26	66.00	-15.74	QP	
2		0.1500	23.30	9.66	32.96	56.00	-23.04	AVG	
3		0.4265	27.20	9.67	36.87	57.32	-20.45	QP	
4		0.4265	22.50	9.67	32.17	47.32	-15.15	AVG	
5		0.4972	30.80	9.67	40.47	56.05	-15.58	QP	
6		0.4972	25.80	9.67	35.47	46.05	-10.58	AVG	
7		0.5540	36.20	9.67	45.87	56.00	-10.13	QP	
8	*	0.5540	31.70	9.67	41.37	46.00	-4.63	AVG	
9		0.6800	21.60	9.67	31.27	56.00	-24.73	QP	
10		0.6800	15.10	9.67	24.77	46.00	-21.23	AVG	
11		0.9230	18.60	9.67	28.27	56.00	-27.73	QP	
12		0.9230	7.70	9.67	17.37	46.00	-28.63	AVG	

Test Mode: Normal Link_Adapter: AMIGO / AMS174-1201000F

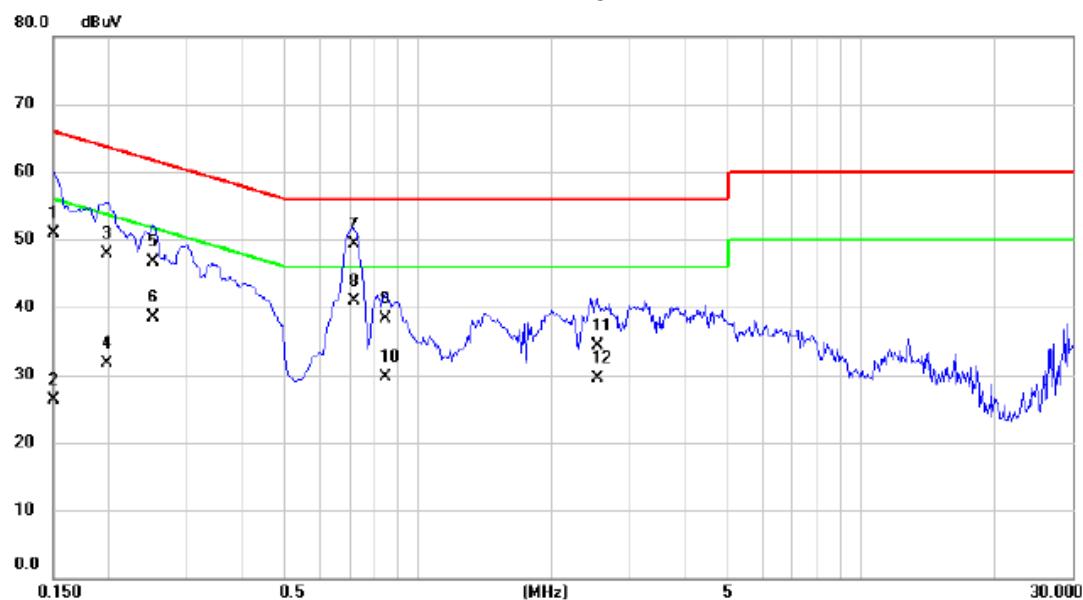
Neutral



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.1500	38.60	9.67	48.27	66.00	-17.73	QP	
2		0.1500	20.80	9.67	30.47	56.00	-25.53	AVG	
3		0.4888	26.30	9.67	35.97	56.19	-20.22	QP	
4		0.4888	16.90	9.67	26.57	46.19	-19.62	AVG	
5		0.5540	30.00	9.67	39.67	56.00	-16.33	QP	
6	*	0.5540	21.90	9.67	31.57	46.00	-14.43	AVG	
7		0.7430	18.40	9.68	28.08	56.00	-27.92	QP	
8		0.7430	11.10	9.68	20.78	46.00	-25.22	AVG	
9		1.0580	15.50	9.68	25.18	56.00	-30.82	QP	
10		1.0580	9.00	9.68	18.68	46.00	-27.32	AVG	
11		1.4180	16.80	9.70	26.50	56.00	-29.50	QP	
12		1.4180	9.70	9.70	19.40	46.00	-26.60	AVG	

Test Mode: Normal Link_Adapter: UMEC / UP0121B-12

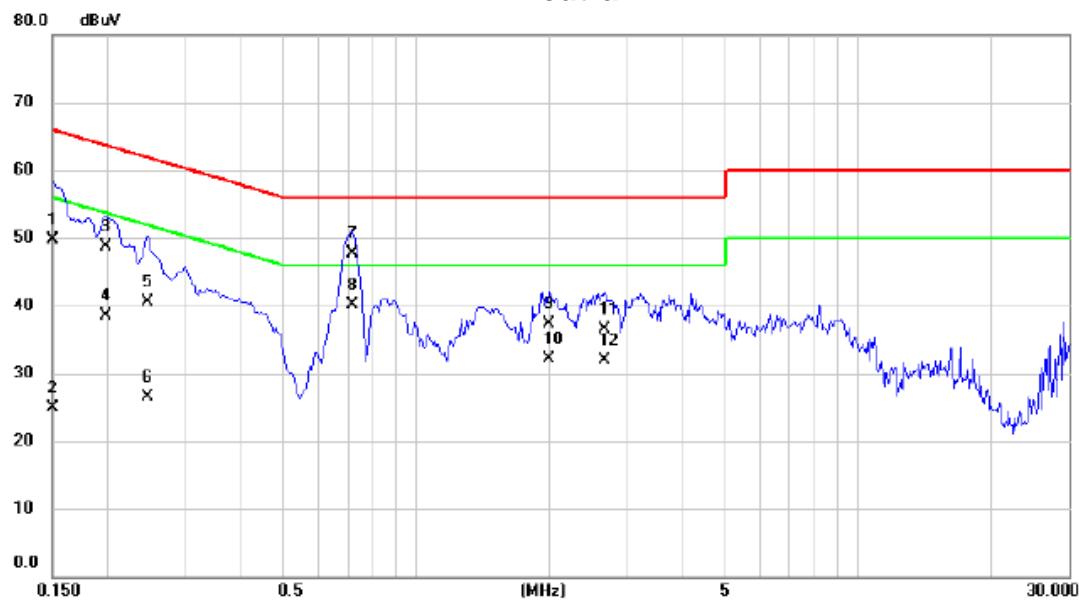
Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.1507	41.20	9.66	50.86	65.96	-15.10	QP	
2		0.1507	16.70	9.66	26.36	55.96	-29.60	AVG	
3		0.1976	38.30	9.66	47.96	63.71	-15.75	QP	
4		0.1976	22.10	9.66	31.76	53.71	-21.95	AVG	
5		0.2515	37.00	9.66	46.66	61.71	-15.05	QP	
6		0.2515	28.80	9.66	38.46	51.71	-13.25	AVG	
7		0.7160	39.60	9.67	49.27	56.00	-6.73	QP	
8	*	0.7160	31.30	9.67	40.97	46.00	-5.03	AVG	
9		0.8420	28.60	9.67	38.27	56.00	-17.73	QP	
10		0.8420	20.10	9.67	29.77	46.00	-16.23	AVG	
11		2.5340	24.60	9.75	34.35	56.00	-21.65	QP	
12		2.5340	19.70	9.75	29.45	46.00	-16.55	AVG	

Test Mode: Normal Link_Adapter: UMEC / UP0121B-12

Neutral

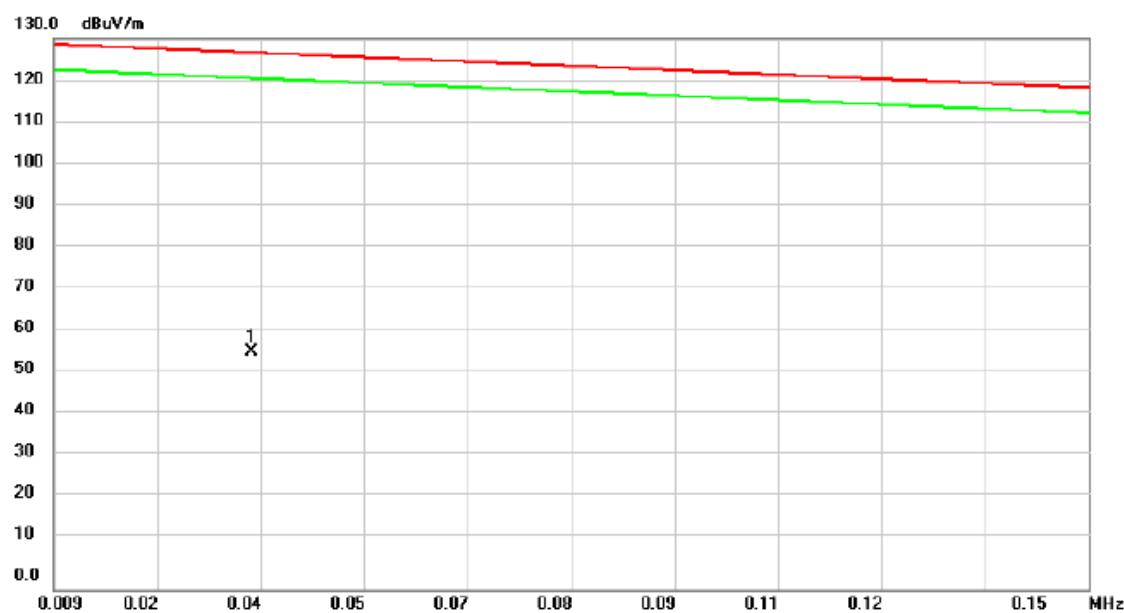


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.1507	40.00	9.67	49.67	65.96	-16.29	QP
2		0.1507	15.20	9.67	24.87	55.96	-31.09	AVG
3		0.1976	39.00	9.66	48.66	63.71	-15.05	QP
4		0.1976	28.80	9.66	38.46	53.71	-15.25	AVG
5		0.2466	30.80	9.66	40.46	61.87	-21.41	QP
6		0.2466	16.90	9.66	26.56	51.87	-25.31	AVG
7		0.7160	38.00	9.68	47.68	56.00	-8.32	QP
8	*	0.7160	30.40	9.68	40.08	46.00	-5.92	AVG
9		2.0030	27.50	9.74	37.24	56.00	-18.76	QP
10		2.0030	22.30	9.74	32.04	46.00	-13.96	AVG
11		2.6600	26.80	9.75	36.55	56.00	-19.45	QP
12		2.6600	22.20	9.75	31.95	46.00	-14.05	AVG

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

Test Mode: TX_Adapter: HON-KWANG / HK-XX12-A12

OPEN



No.	Mk.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	*	0.0360	41.75	14.40	56.15	126.57	-70.42 peak

Test Mode: TX_Adapter: HON-KWANG / HK-XX12-A12

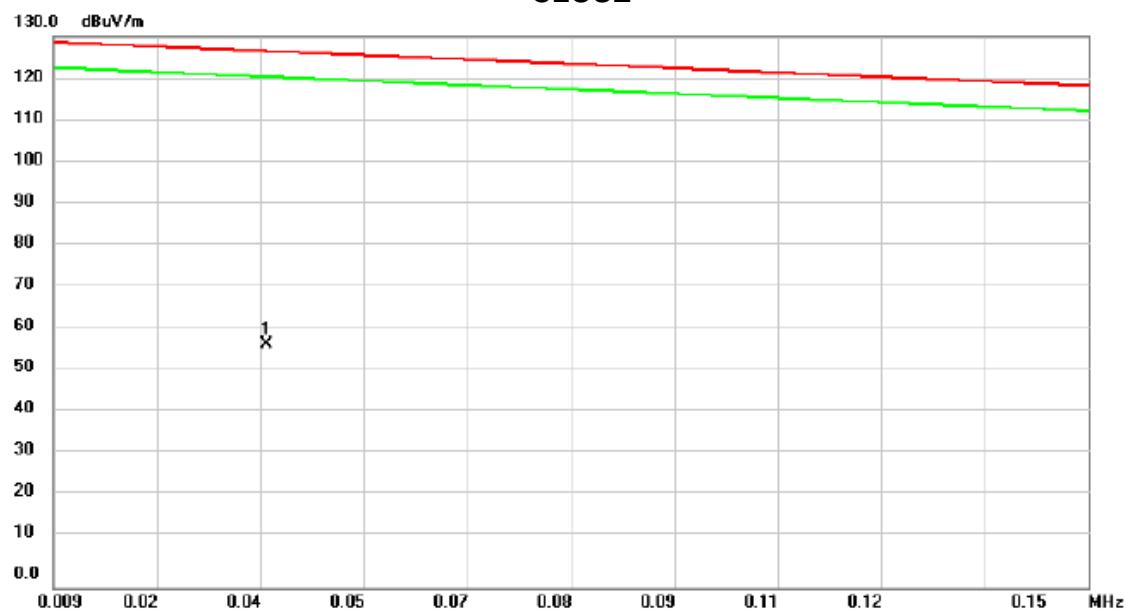
OPEN



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2691	41.84	11.85	53.69	109.75	-56.06	peak	
2	*	1.0750	30.36	11.97	42.33	68.59	-26.26	peak	
3		1.5530	25.58	11.75	37.33	64.32	-26.99	peak	
4		2.6274	21.29	11.27	32.56	69.54	-36.98	peak	
5		4.3290	18.38	11.30	29.68	69.54	-39.86	peak	
6		5.0750	16.98	11.40	28.38	69.54	-41.16	peak	

Test Mode: TX_Adapter: HON-KWANG / HK-XX12-A12

CLOSE



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	0.0380	43.20	14.20	57.40	126.43	-69.03	peak

Test Mode: TX_Adapter: HON-KWANG / HK-XX12-A12

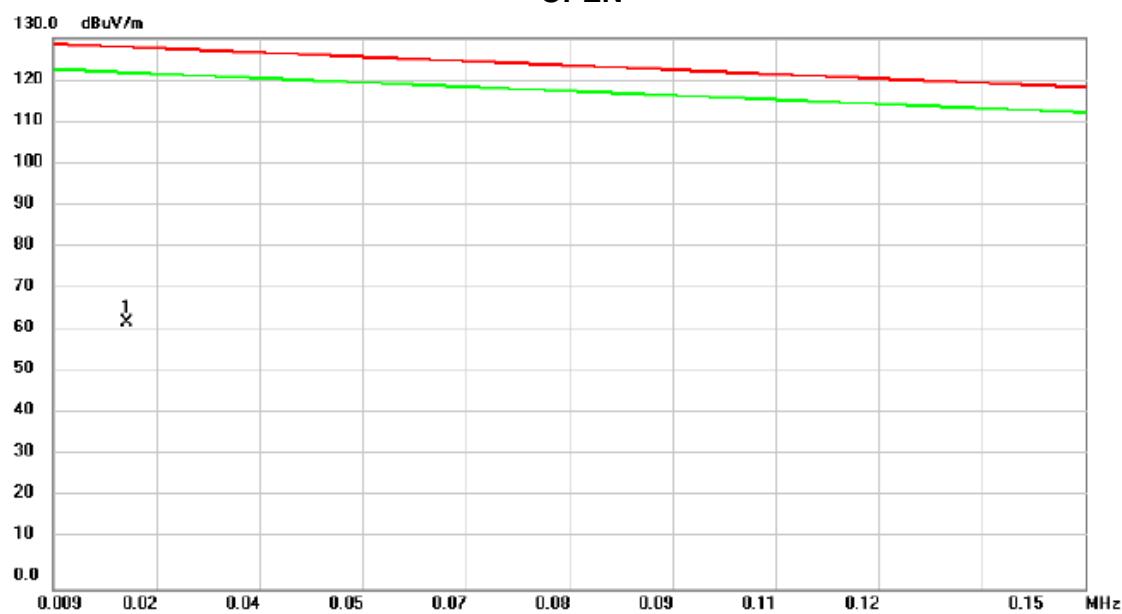
CLOSE



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.3291	40.16	11.80	51.96	105.41	-53.45	peak	
2	*	2.2395	24.62	11.44	36.06	69.54	-33.48	peak	
3		2.8664	21.25	11.16	32.41	69.54	-37.13	peak	
4		5.2842	16.97	11.39	28.36	69.54	-41.18	peak	
5		6.4782	15.08	11.37	26.45	69.54	-43.09	peak	
6		8.4780	13.54	11.33	24.87	69.54	-44.67	peak	

Test Mode: TX_Adapter: AMIGO / AMS174-1201000F

OPEN



No.	Mk.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	0.0190	44.79	18.02	62.81	127.80	-64.99 peak

Test Mode: TX_Adapter: AMIGO / AMS174-1201000F

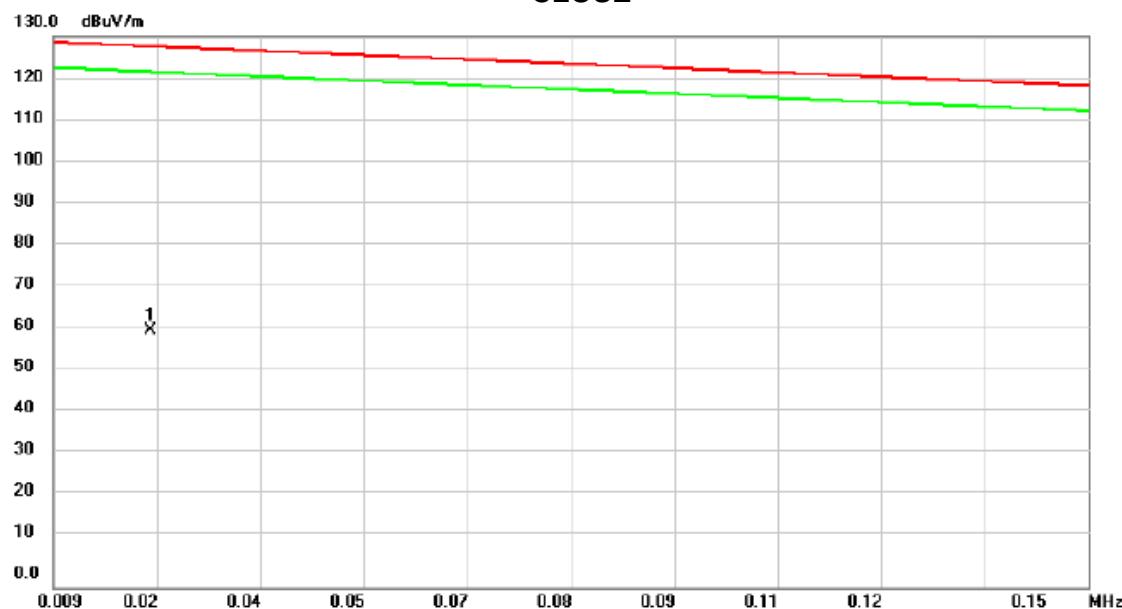
OPEN



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		0.1500	47.93	12.03	59.96	118.34	-58.38	peak
2	*	0.5675	35.40	11.83	47.23	73.11	-25.88	peak
3		1.3440	27.36	11.85	39.21	66.19	-26.98	peak
4		4.5380	17.03	11.33	28.36	69.54	-41.18	peak
5		8.7170	12.70	11.33	24.03	69.54	-45.51	peak
6		11.5228	11.36	11.25	22.61	69.54	-46.93	peak

Test Mode: TX_Adapter: AMIGO / AMS174-1201000F

CLOSE



No.	Mk.	Reading Level MHz	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0223	43.54	17.12	60.66	127.56	-66.90	peak

Test Mode: TX_Adapter: AMIGO / AMS174-1201000F

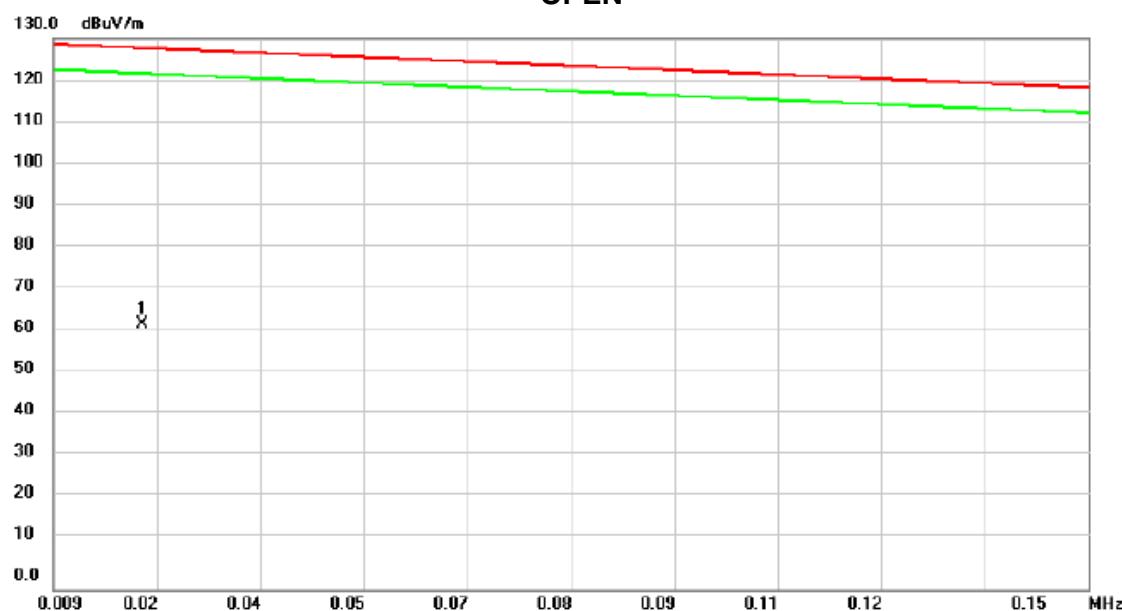
CLOSE



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1500	47.16	12.03	59.19	118.34	-59.15	peak	
2		0.6276	33.40	11.85	45.25	72.57	-27.32	peak	
3	*	1.7022	24.41	11.68	36.09	62.99	-26.90	peak	
4		5.4434	14.33	11.39	25.72	69.54	-43.82	peak	
5		10.1398	10.50	11.30	21.80	69.54	-47.74	peak	
6		13.0850	9.75	11.21	20.96	69.54	-48.58	peak	

Test Mode: TX_Adapter: UMEC / UP0121B-12

OPEN



No.	Mk.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0212	45.16	17.42	62.58	127.64	-65.06	peak

Test Mode: TX_Adapter: UMEC / UP0121B-12

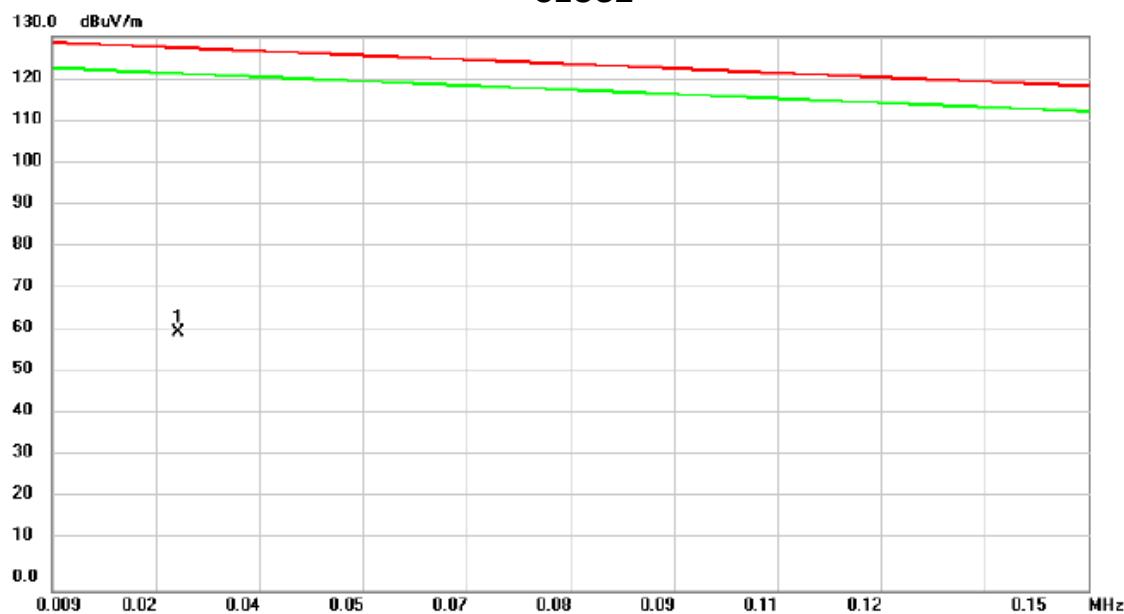
OPEN



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.1500	47.93	12.03	59.96	118.34	-58.38	peak
2		0.4485	37.41	11.80	49.21	96.80	-47.59	peak
3		1.0750	30.36	11.97	42.33	68.59	-26.26	peak
4	*	1.7020	25.41	11.68	37.09	63.00	-25.91	peak
5		2.3887	22.56	11.38	33.94	69.54	-35.60	peak
6		3.9110	18.67	11.24	29.91	69.54	-39.63	peak

Test Mode: TX_Adapter: UMEC / UP0121B-12

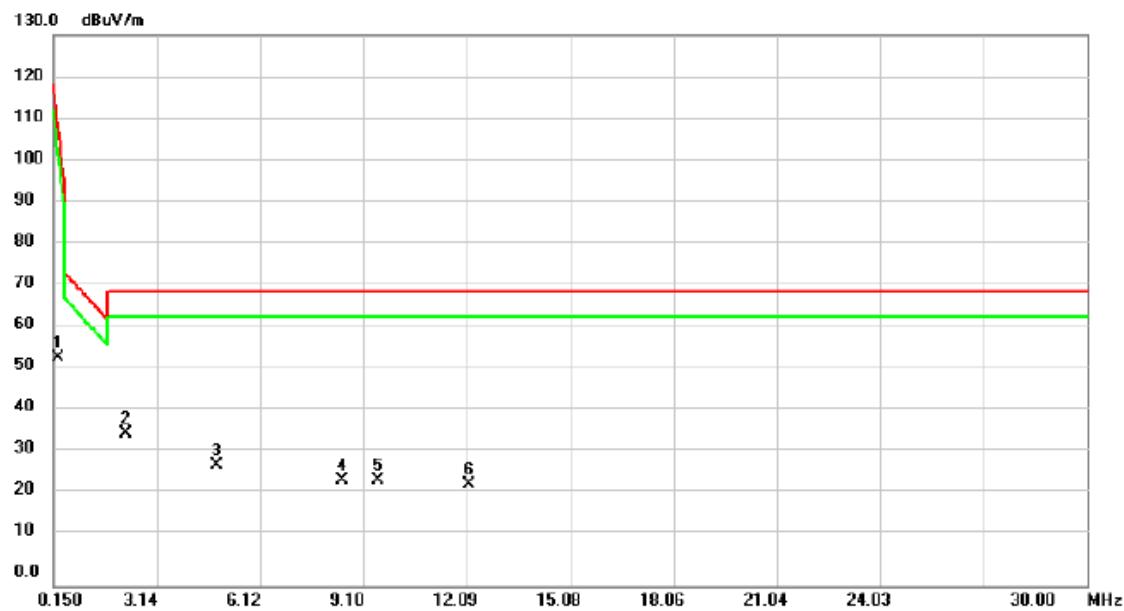
CLOSE



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	0.0262	44.44	16.04	60.48	127.28	-66.80	peak

Test Mode: TX_Adapter: UMEC / UP0121B-12

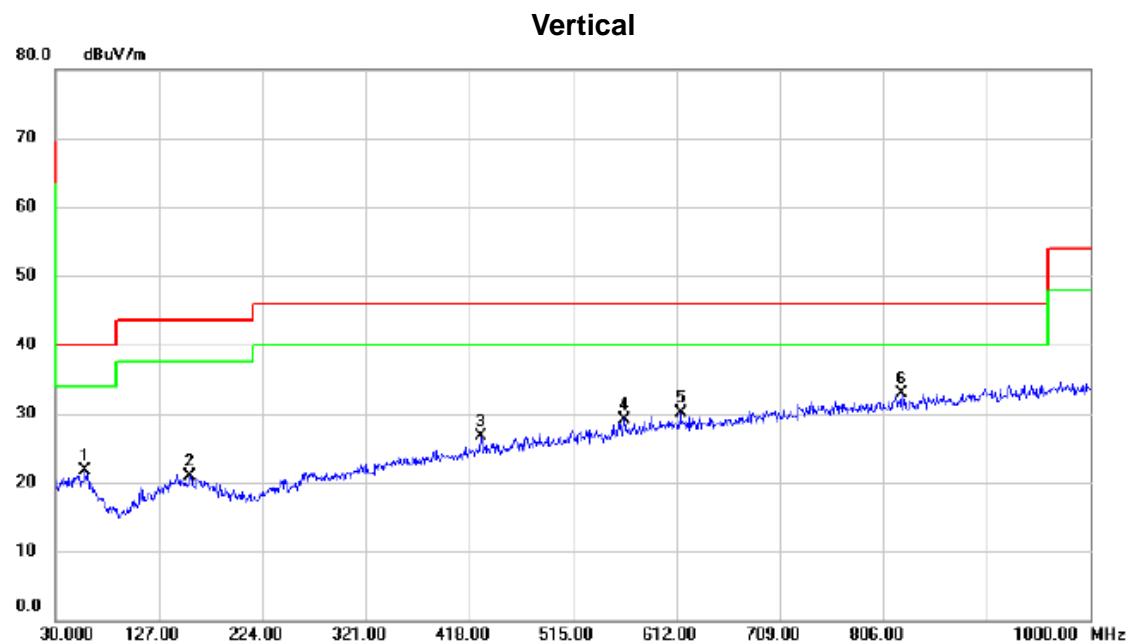
CLOSE



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		0.2993	41.85	11.80	53.65	107.57	-53.92	peak
2	*	2.2395	24.62	11.44	36.06	69.54	-33.48	peak
3		4.8662	16.94	11.38	28.32	69.54	-41.22	peak
4		8.4780	13.54	11.33	24.87	69.54	-44.67	peak
5		9.5228	13.44	11.31	24.75	69.54	-44.79	peak
6		12.1493	12.61	11.24	23.85	69.54	-45.69	peak

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

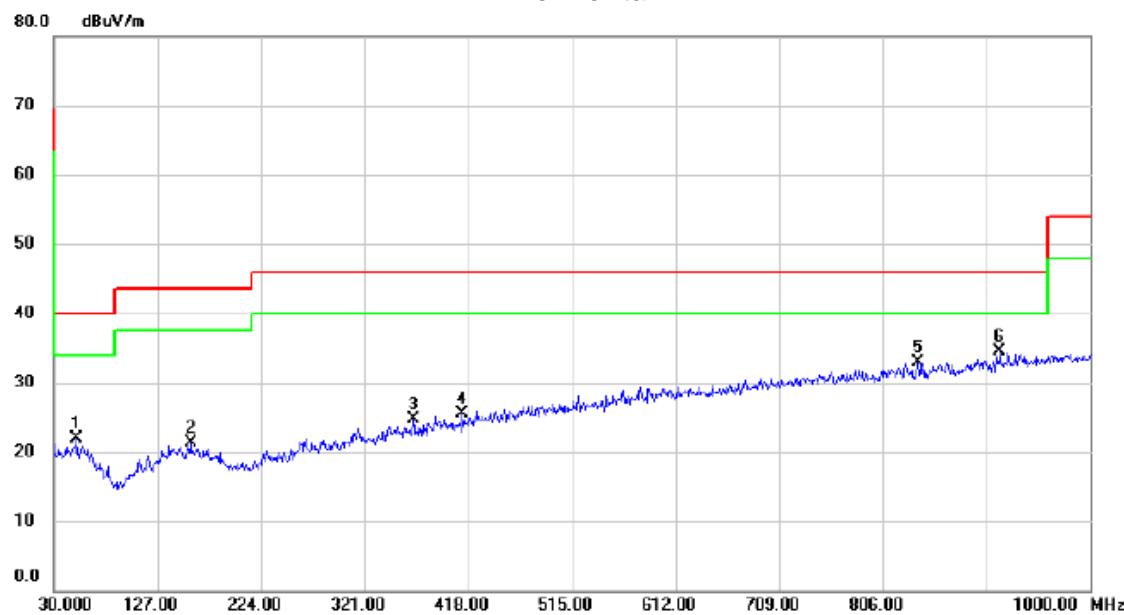
Test Mode: TX_Adapter: HON-KWANG / HK-XX12-A12



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin Detector	Comment
1		58.1300	30.38	-8.72	21.66	40.00	-18.34	peak
2		156.1000	29.51	-8.63	20.88	43.50	-22.62	peak
3		428.6700	30.89	-4.10	26.79	46.00	-19.21	peak
4		563.5000	30.38	-1.18	29.20	46.00	-16.80	peak
5		615.8800	30.20	-0.10	30.10	46.00	-15.90	peak
6	*	823.4600	29.76	3.21	32.97	46.00	-13.03	peak

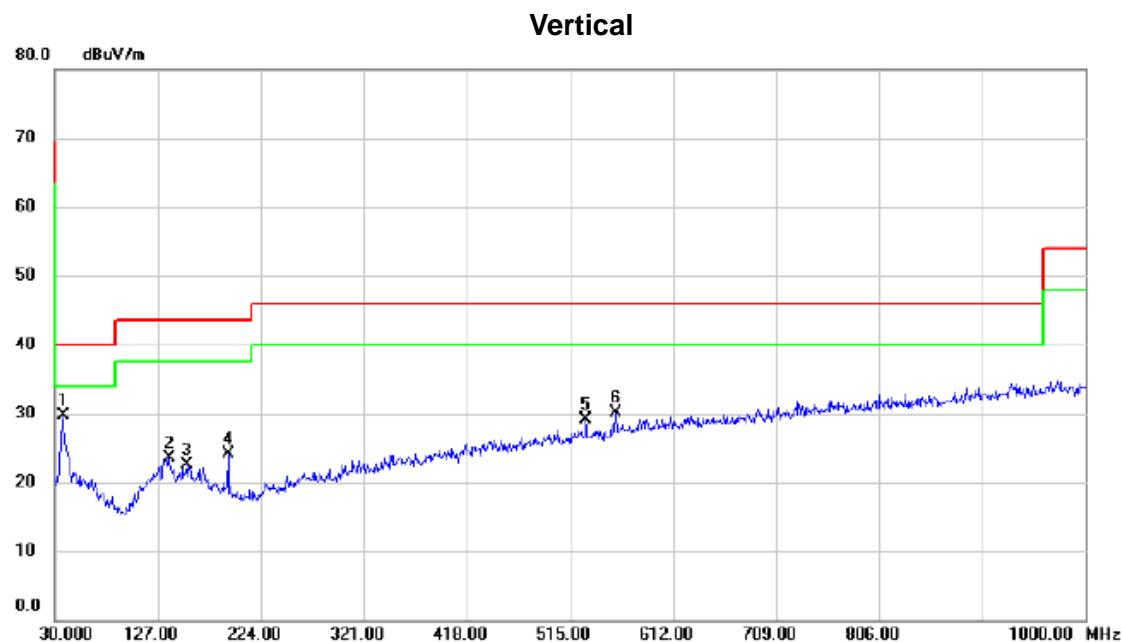
Test Mode: TX_Adapter: HON-KWANG / HK-XX12-A12

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	
1		51.3400	30.31	-8.33	21.98	40.00	-18.02	peak
2		158.0400	29.82	-8.59	21.23	43.50	-22.27	peak
3		366.5900	30.38	-5.64	24.74	46.00	-21.26	peak
4		412.1800	30.03	-4.57	25.46	46.00	-20.54	peak
5		838.9800	29.44	3.44	32.88	46.00	-13.12	peak
6	*	915.6100	29.52	4.89	34.41	46.00	-11.59	peak

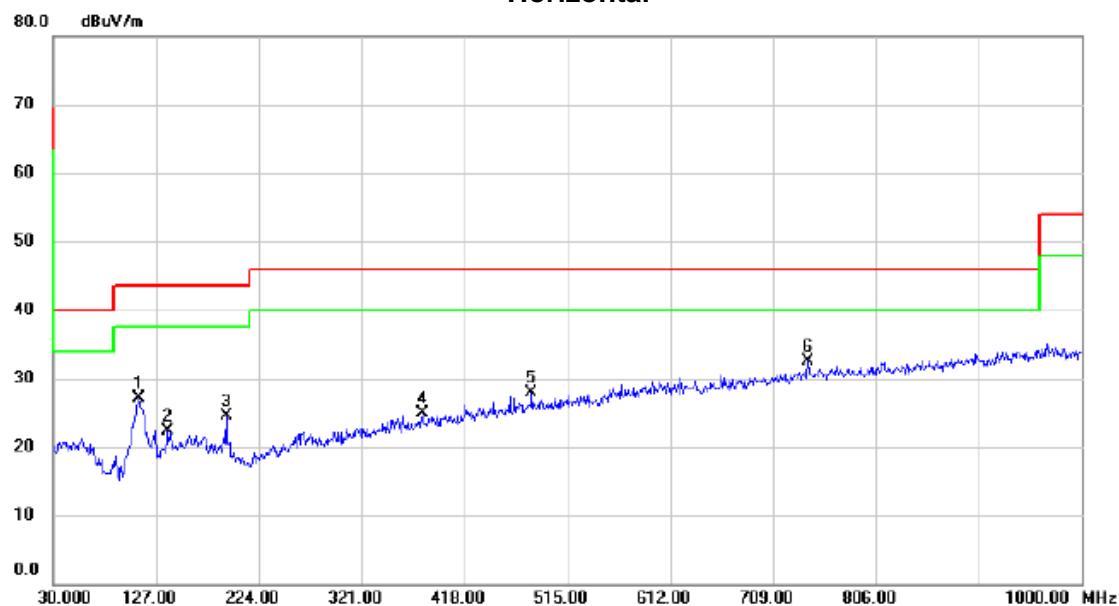
Test Mode: TX_Adapter: AMIGO / AMS174-1201000F



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1	*	37.7600	38.60	-8.81	29.79	40.00	-10.21	peak	
2		137.6700	32.42	-8.86	23.56	43.50	-19.94	peak	
3		154.1600	31.11	-8.66	22.45	43.50	-21.05	peak	
4		192.9600	34.83	-10.66	24.17	43.50	-19.33	peak	
5		529.5500	31.08	-1.99	29.09	46.00	-16.91	peak	
6		558.6500	31.50	-1.30	30.20	46.00	-15.80	peak	

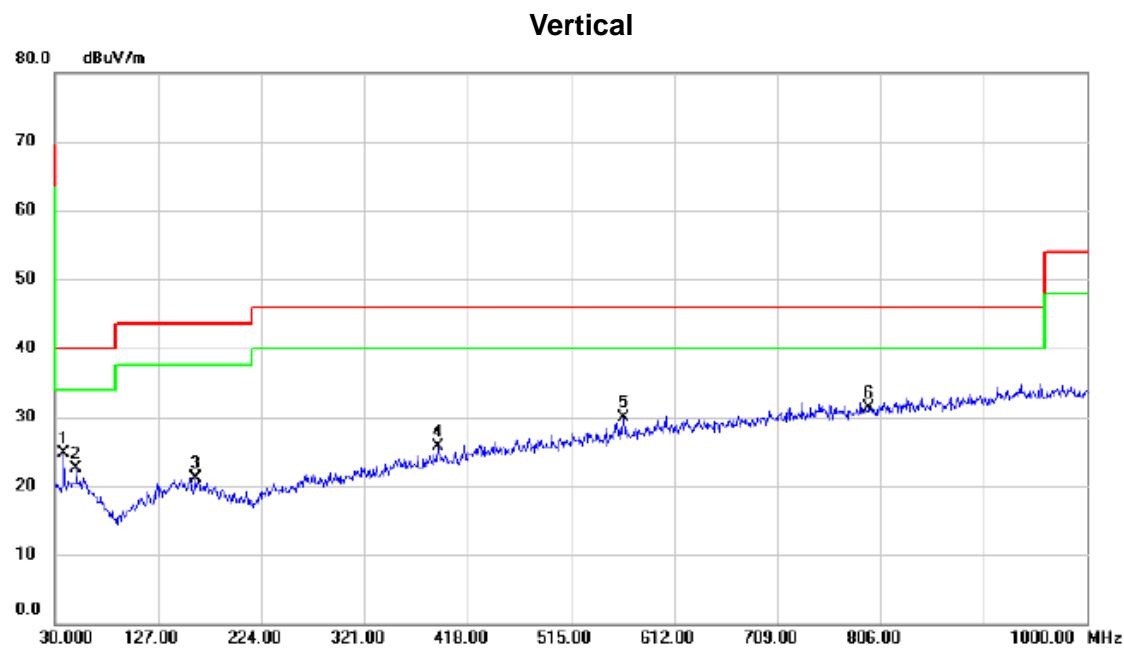
Test Mode: TX_Adapter: AMIGO / AMS174-1201000F

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin
		MHz	dBuV	dB	dBuV/m	dB	Detector Comment
1		110.5100	38.15	-11.05	27.10	43.50	-16.40 peak
2		138.6400	30.98	-8.77	22.21	43.50	-21.29 peak
3		192.9600	35.19	-10.66	24.53	43.50	-18.97 peak
4		378.2300	30.22	-5.39	24.83	46.00	-21.17 peak
5		481.0500	30.82	-2.98	27.84	46.00	-18.16 peak
6	*	741.9800	30.39	2.16	32.55	46.00	-13.45 peak

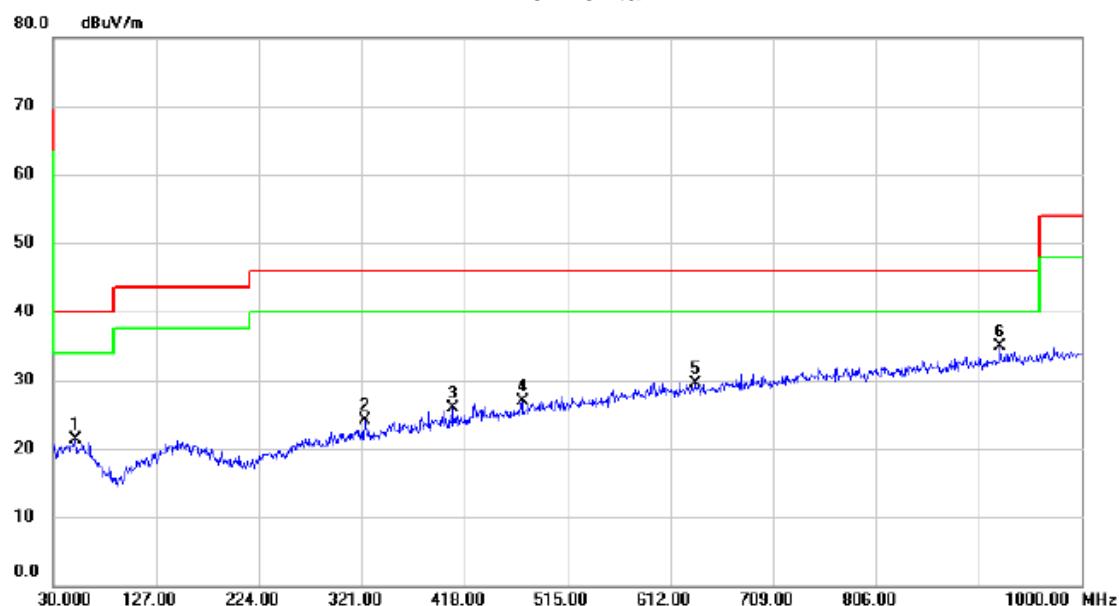
Test Mode: TX_Adapter: UMEC / UP0121B-12



No.	Mk.	Reading		Correct Factor	Measure- ment	Limit	Margin	Comment
		MHz	dBuV	dB	dBuV/m	dB	Detector	
1	38.7300	33.38	33.38	-8.75	24.63	40.00	-15.37	peak
2	50.3700	30.75	30.75	-8.28	22.47	40.00	-17.53	peak
3	161.9200	29.67	29.67	-8.61	21.06	43.50	-22.44	peak
4	389.8700	30.80	30.80	-5.13	25.67	46.00	-20.33	peak
5	564.4700	30.98	30.98	-1.15	29.83	46.00	-16.17	peak
6	* 795.3300	28.41	28.41	2.83	31.24	46.00	-14.76	peak

Test Mode: TX_Adapter: UMEC / UP0121B-12

Horizontal

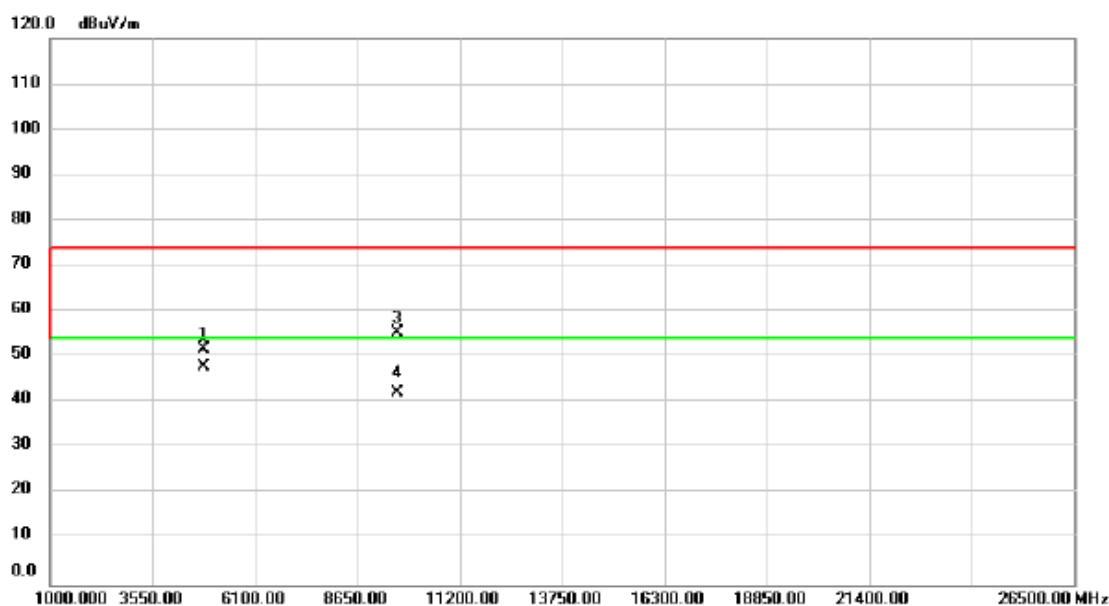


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Comment
		MHz	dBuV	dB	dBuV/m	dB	Detector	
1		51.3400	29.72	-8.33	21.39	40.00	-18.61	peak
2		323.9100	30.89	-6.78	24.11	46.00	-21.89	peak
3		406.3600	30.63	-4.73	25.90	46.00	-20.10	peak
4		472.3200	30.07	-3.12	26.95	46.00	-19.05	peak
5		635.2800	29.45	0.06	29.51	46.00	-16.49	peak
6	*	923.3700	29.82	5.01	34.83	46.00	-11.17	peak

ATTACHMENT D - RADIATED EMISSION (1GHZ~10TH HARMONIC)

Test Mode: TX B MODE 2412MHz

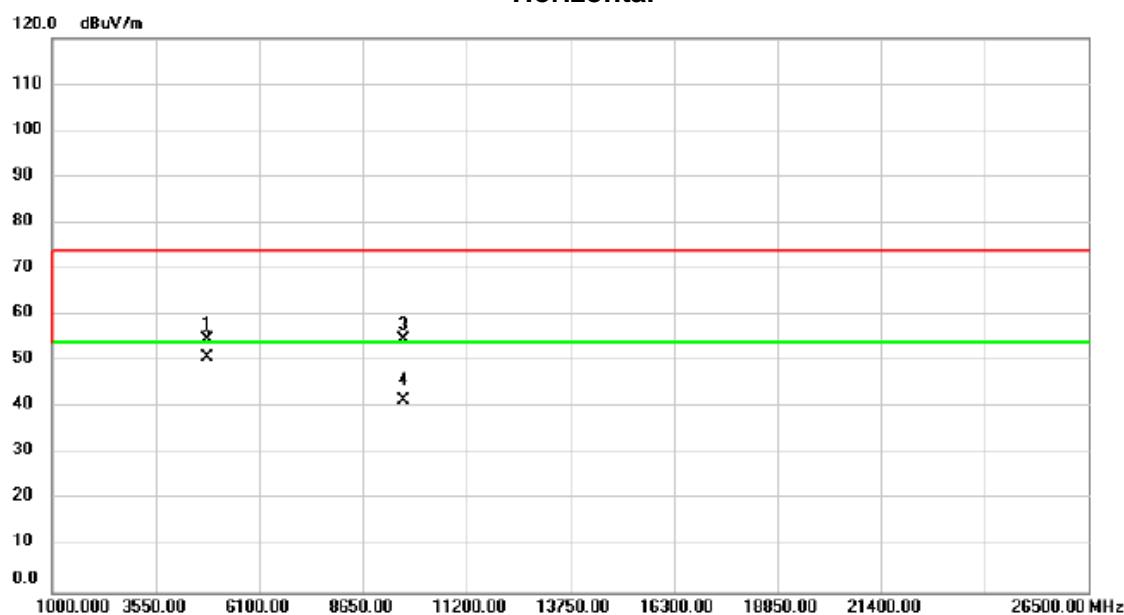
Vertical



No.	Mk.	Reading Level MHz	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.000	63.12	-11.47	51.65	74.00	-22.35	peak
2	*	4824.000	59.47	-11.47	48.00	54.00	-6.00	AVG
3		9648.000	54.60	0.81	55.41	74.00	-18.59	peak
4		9648.000	41.20	0.81	42.01	54.00	-11.99	AVG

Test Mode: TX B MODE 2412MHz

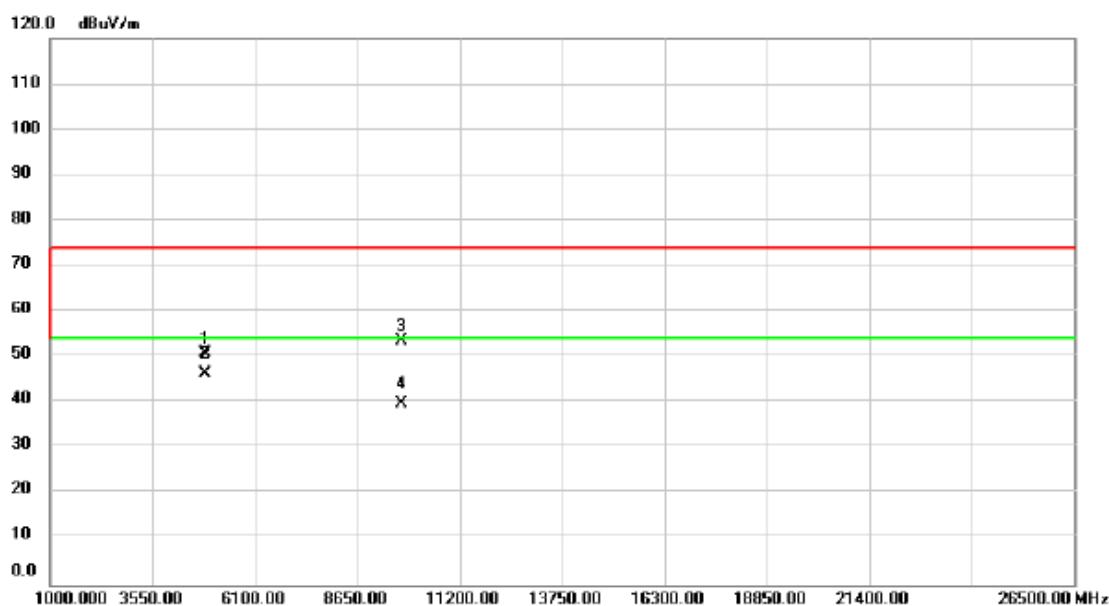
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	66.20	-11.47	54.73	74.00	-19.27	peak	
2	*	4824.000	62.42	-11.47	50.95	54.00	-3.05	AVG	
3		9648.000	54.06	0.81	54.87	74.00	-19.13	peak	
4		9648.000	40.85	0.81	41.66	54.00	-12.34	AVG	

Test Mode: TX B MODE 2437MHz

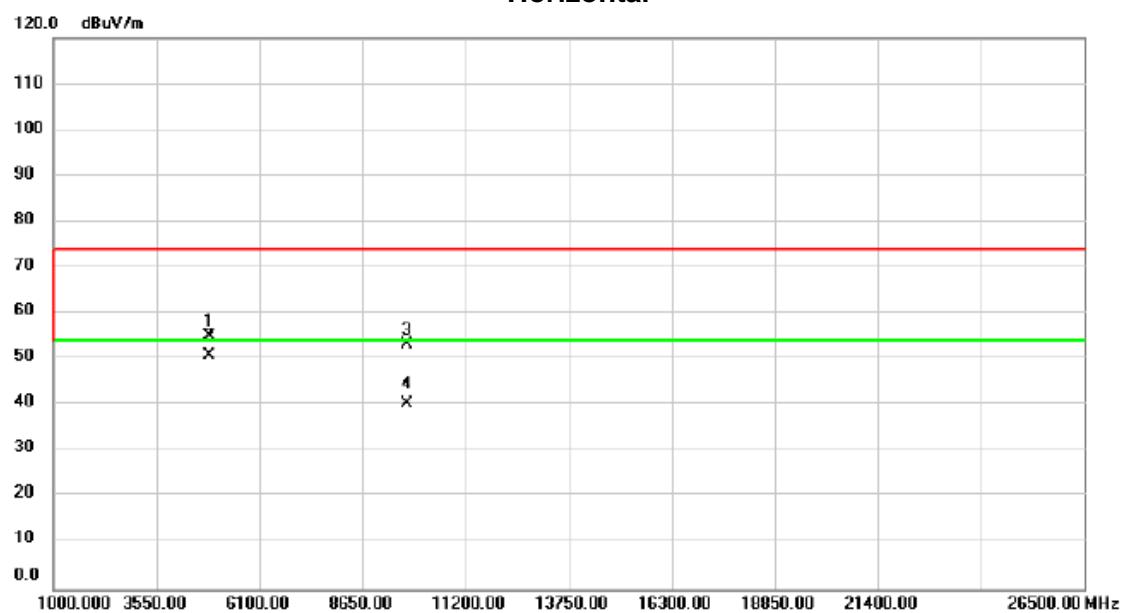
Vertical



No.	Mk.	Reading Level MHz	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
		dBuV	dB	dBuV/m	dBuV/m	dB		
1	4874.000	62.10	-11.39	50.71	74.00	-23.29	peak	
2	*	57.72	-11.39	46.33	54.00	-7.67	AVG	
3	9748.000	52.37	1.10	53.47	74.00	-20.53	peak	
4	9748.000	38.70	1.10	39.80	54.00	-14.20	AVG	

Test Mode: TX B MODE 2437MHz

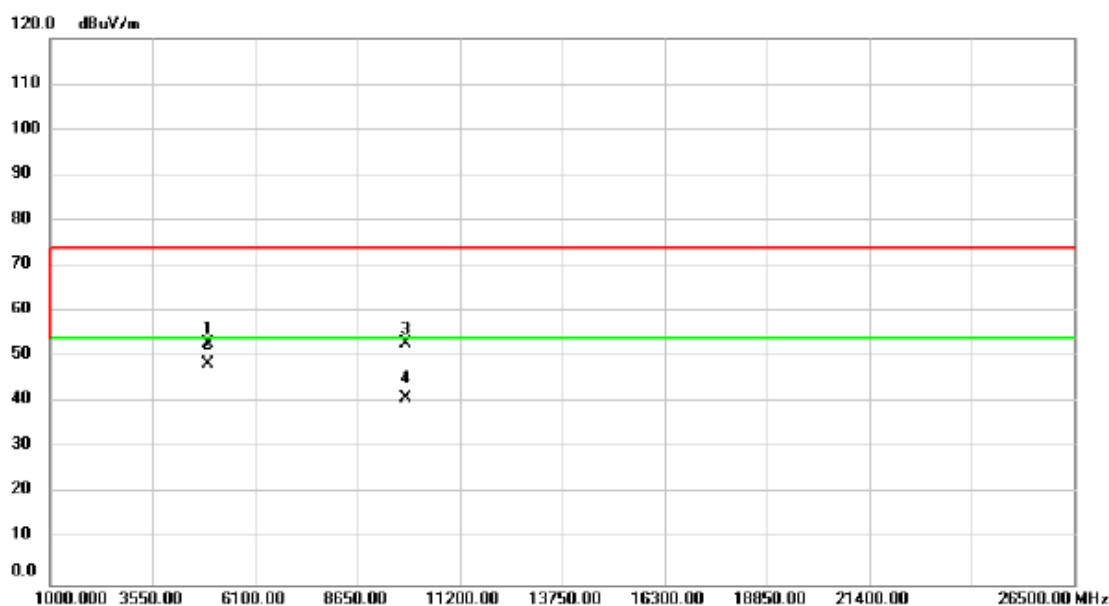
Horizontal



No.	Mk.	Reading		Correct Factor	Measure- ment	Limit	Margin	Comment
		MHz	dBuV					
1		4874.000	66.53	-11.39	55.14	74.00	-18.86	peak
2	*	4874.000	62.39	-11.39	51.00	54.00	-3.00	AVG
3		9748.000	52.30	1.10	53.40	74.00	-20.60	peak
4		9748.000	39.33	1.10	40.43	54.00	-13.57	AVG

Test Mode: TX B MODE 2462MHz

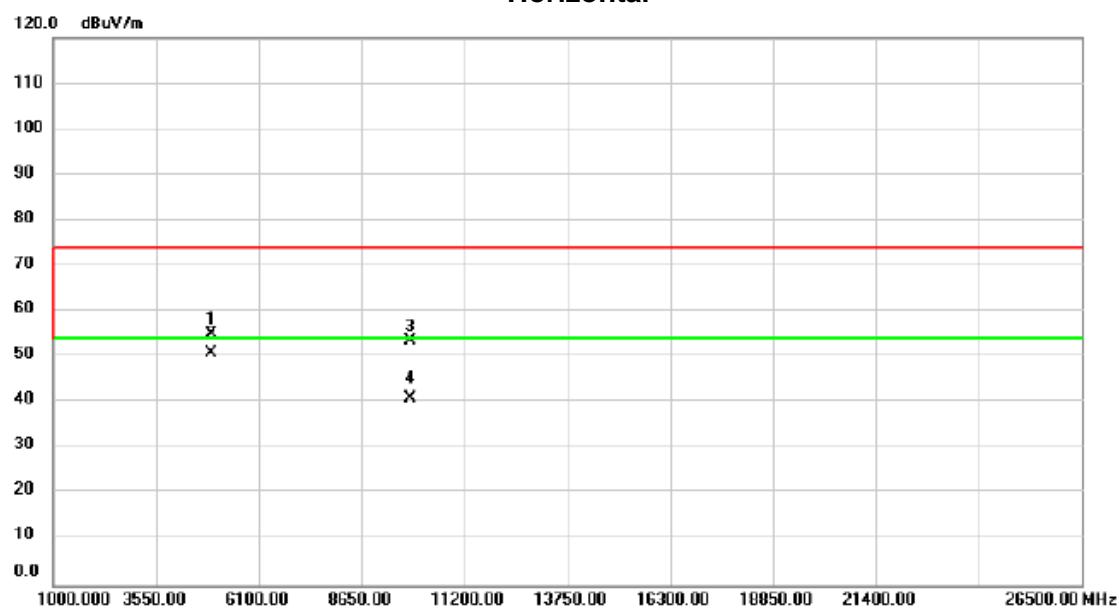
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	64.14	-11.32	52.82	74.00	-21.18	peak	
2	*	4924.000	59.91	-11.32	48.59	54.00	-5.41	AVG	
3		9848.000	51.65	1.39	53.04	74.00	-20.96	peak	
4		9848.000	39.62	1.39	41.01	54.00	-12.99	AVG	

Test Mode: TX B MODE 2462MHz

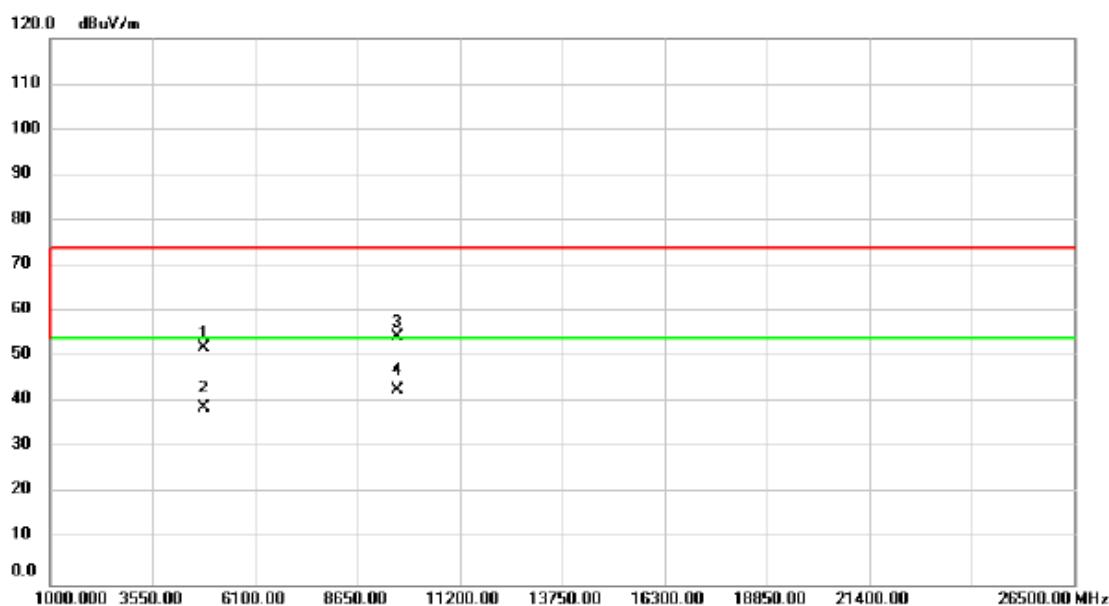
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4924.000	66.36	-11.32	55.04	74.00	-18.96	peak	
2	*	4924.000	62.30	-11.32	50.98	54.00	-3.02	AVG	
3		9848.000	52.27	1.39	53.66	74.00	-20.34	peak	
4		9848.000	39.50	1.39	40.89	54.00	-13.11	AVG	

Test Mode: TX G MODE 2412MHz

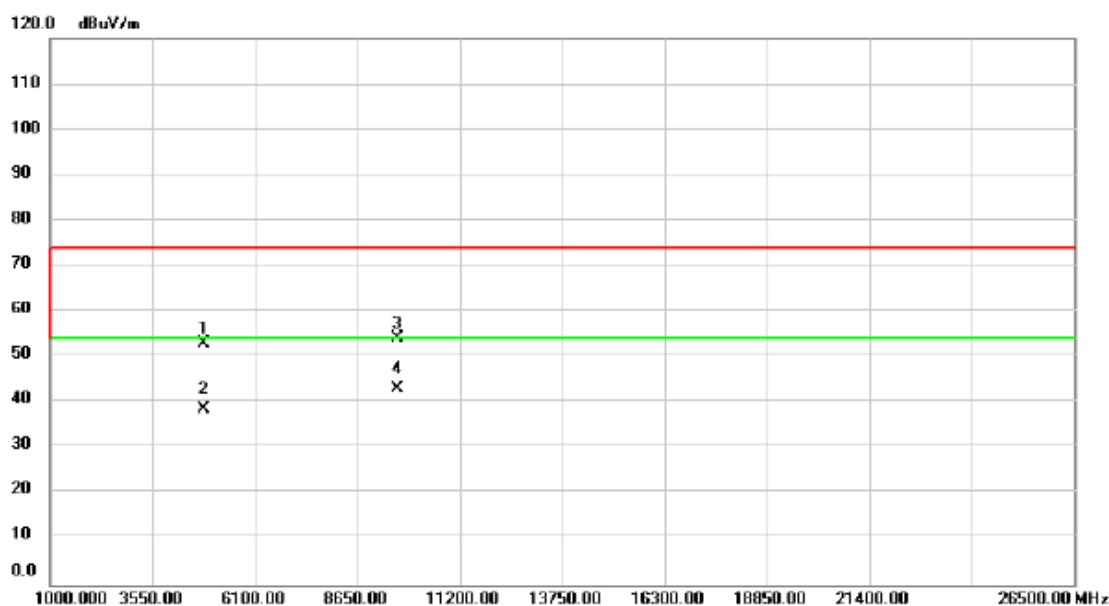
Vertical



No.	Mk.	Reading Level MHz	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.000	63.40	-11.47	51.93	74.00	-22.07	peak	
2	4824.000	50.29	-11.47	38.82	54.00	-15.18	AVG	
3	9648.000	53.57	0.81	54.38	74.00	-19.62	peak	
4	* 9648.000	41.86	0.81	42.67	54.00	-11.33	AVG	

Test Mode: TX G MODE 2412MHz

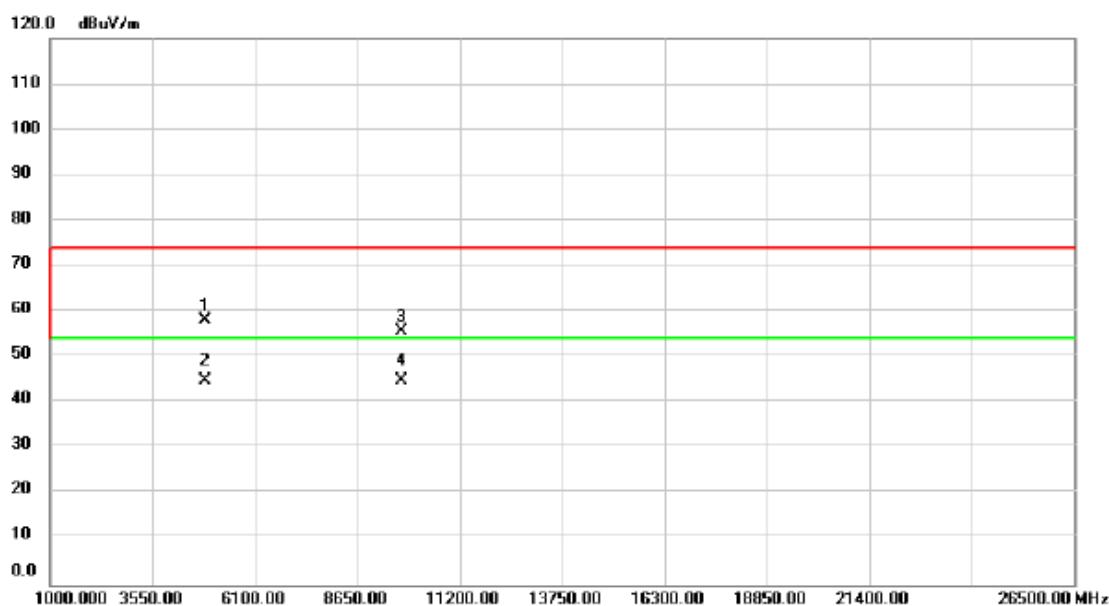
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4824.000	64.40	-11.47	52.93	74.00	-21.07	peak	
2		4824.000	49.97	-11.47	38.50	54.00	-15.50	AVG	
3		9648.000	53.41	0.81	54.22	74.00	-19.78	peak	
4	*	9648.000	42.31	0.81	43.12	54.00	-10.88	AVG	

Test Mode: TX G MODE 2437MHz

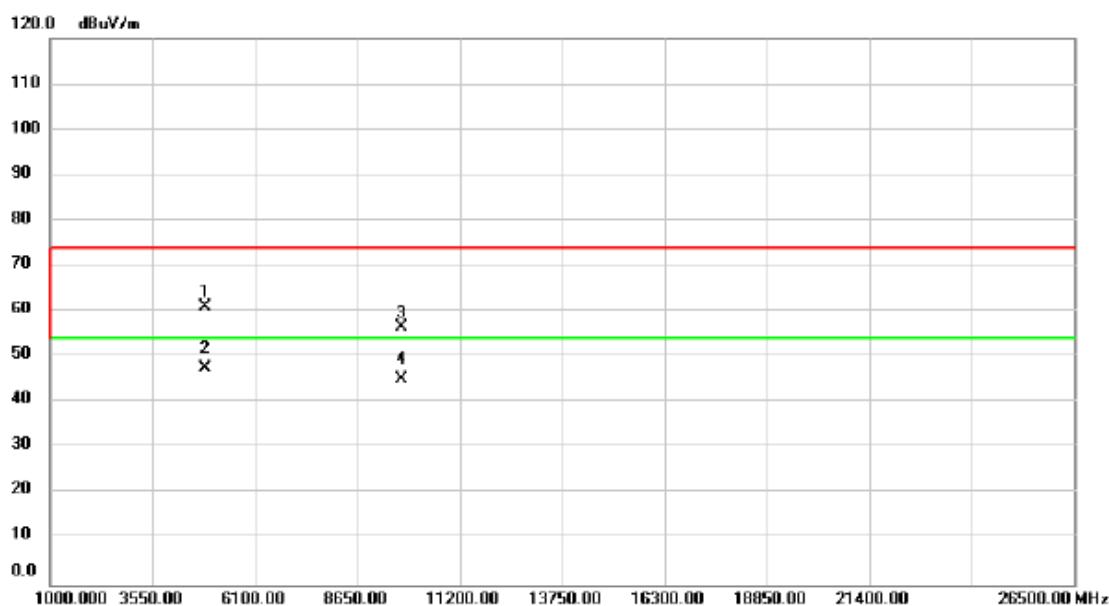
Vertical



No.	Mk.	Reading Level MHz	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	69.57	-11.39	58.18	74.00	-15.82	peak
2		4874.000	56.19	-11.39	44.80	54.00	-9.20	AVG
3		9748.000	54.46	1.10	55.56	74.00	-18.44	peak
4	*	9748.000	43.78	1.10	44.88	54.00	-9.12	AVG

Test Mode: TX G MODE 2437MHz

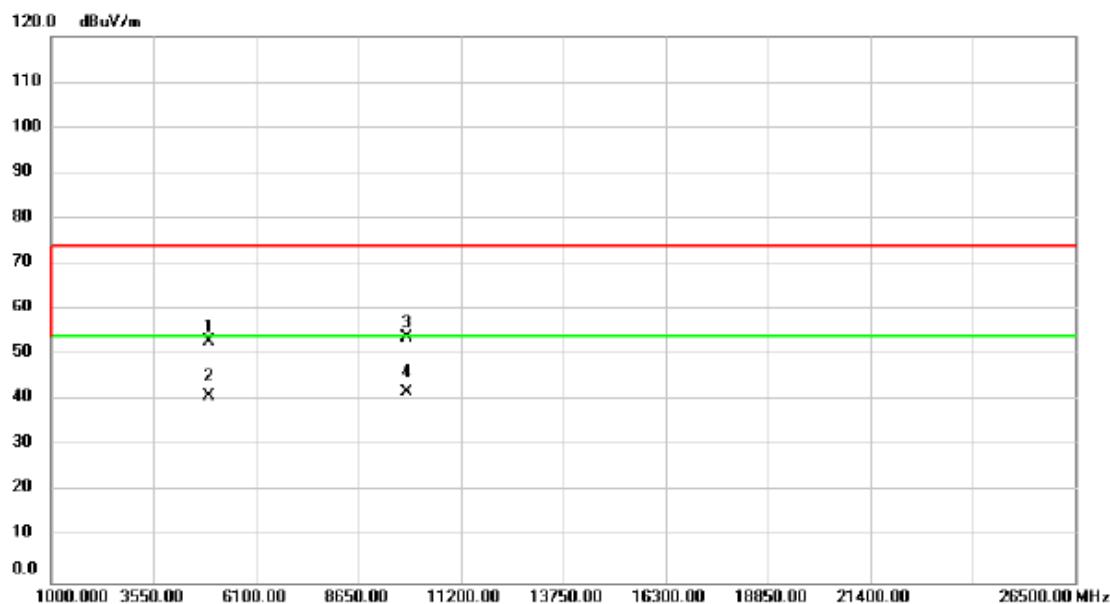
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4874.000	72.36	-11.39	60.97	74.00	-13.03	peak	
2	*	4874.000	58.88	-11.39	47.49	54.00	-6.51	AVG	
3		9748.000	55.56	1.10	56.66	74.00	-17.34	peak	
4		9748.000	43.91	1.10	45.01	54.00	-8.99	AVG	

Test Mode: TX G MODE 2462MHz

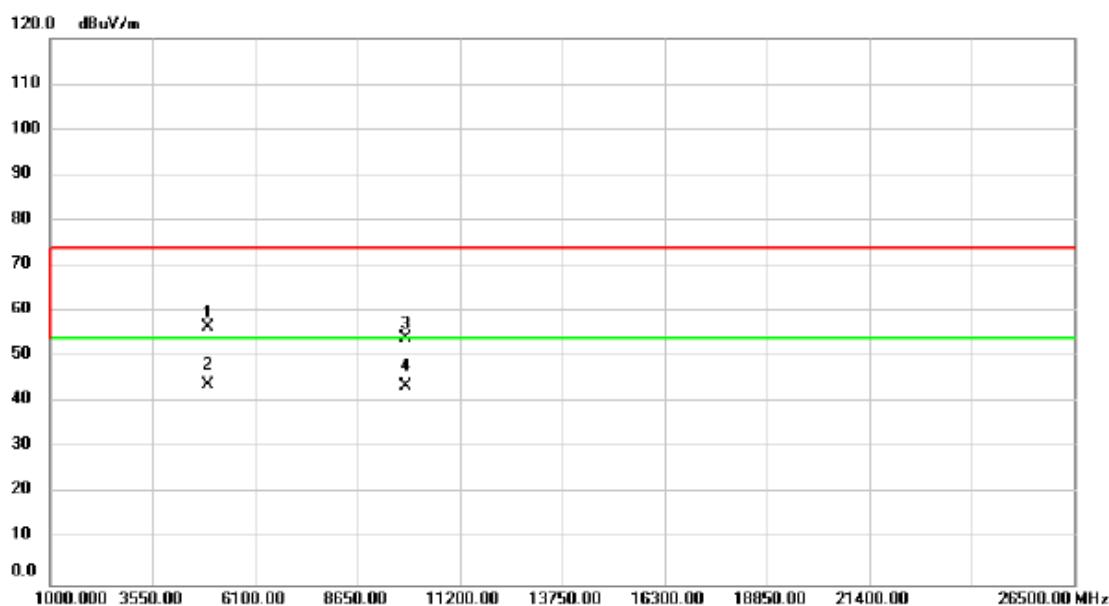
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4924.000	64.31	-11.32	52.99	74.00	-21.01	peak
2		4924.000	52.17	-11.32	40.85	54.00	-13.15	AVG
3		9848.000	52.61	1.39	54.00	74.00	-20.00	peak
4	*	9848.000	40.51	1.39	41.90	54.00	-12.10	AVG

Test Mode: TX G MODE 2462MHz

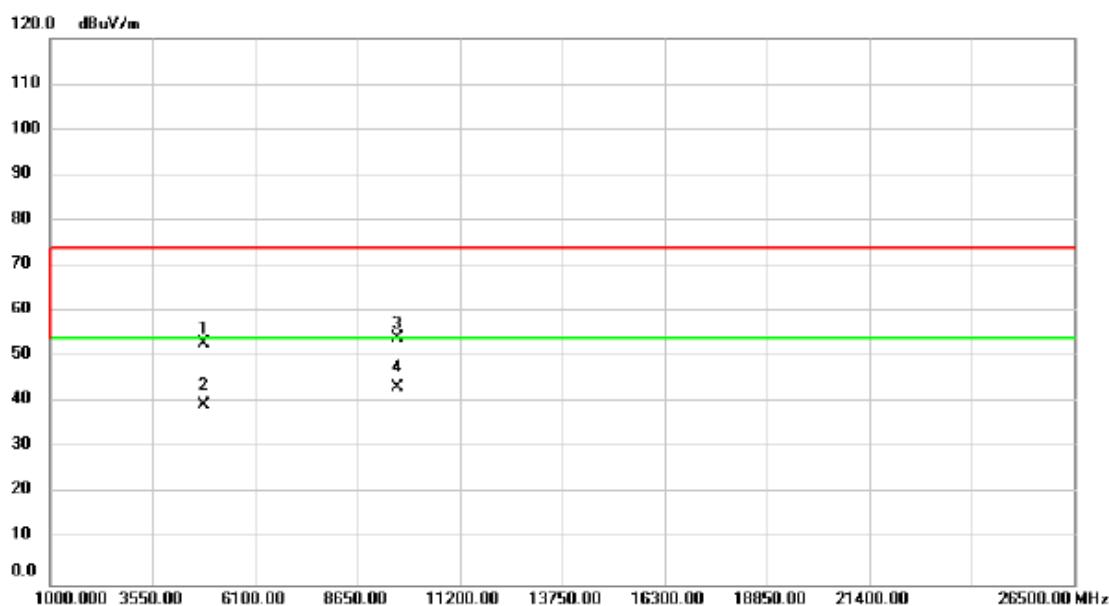
Horizontal



No.	Mk.	Reading Level MHz	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.000	67.92	-11.32	56.60	74.00	-17.40	peak	
2	*	4924.000	55.26	-11.32	43.94	54.00	-10.06	AVG
3	9848.000	52.73	1.39	54.12	74.00	-19.88	peak	
4	9848.000	42.30	1.39	43.69	54.00	-10.31	AVG	

Test Mode: TX N-20M MODE 2412MHz

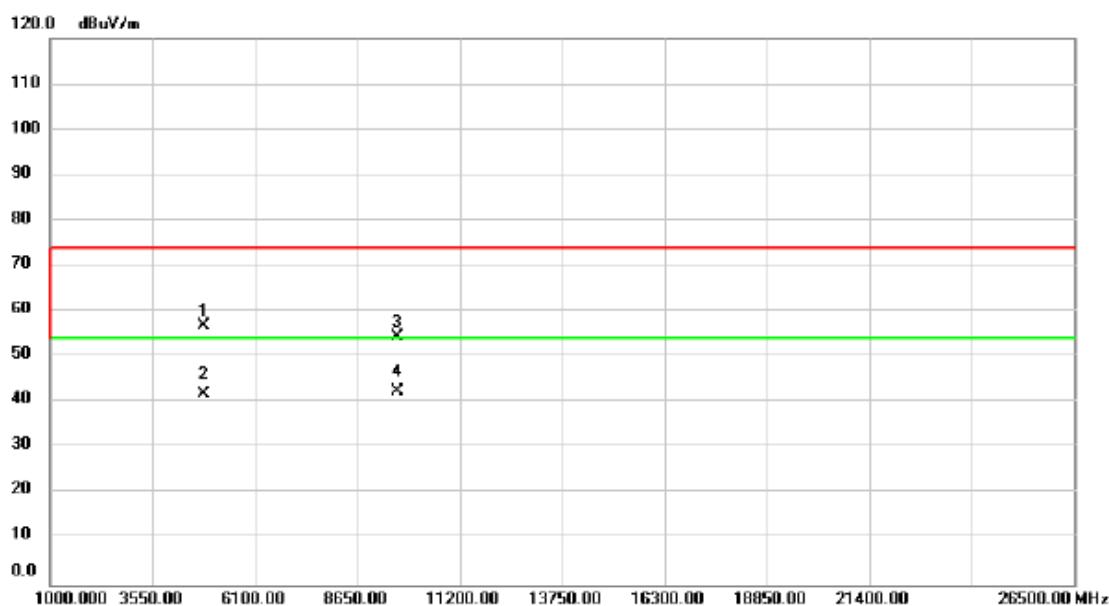
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4824.000	64.43	-11.47	52.96	74.00	-21.04	peak
2		4824.000	50.91	-11.47	39.44	54.00	-14.56	AVG
3		9648.000	53.27	0.81	54.08	74.00	-19.92	peak
4	*	9648.000	42.61	0.81	43.42	54.00	-10.58	AVG

Test Mode: TX N-20M MODE 2412MHz

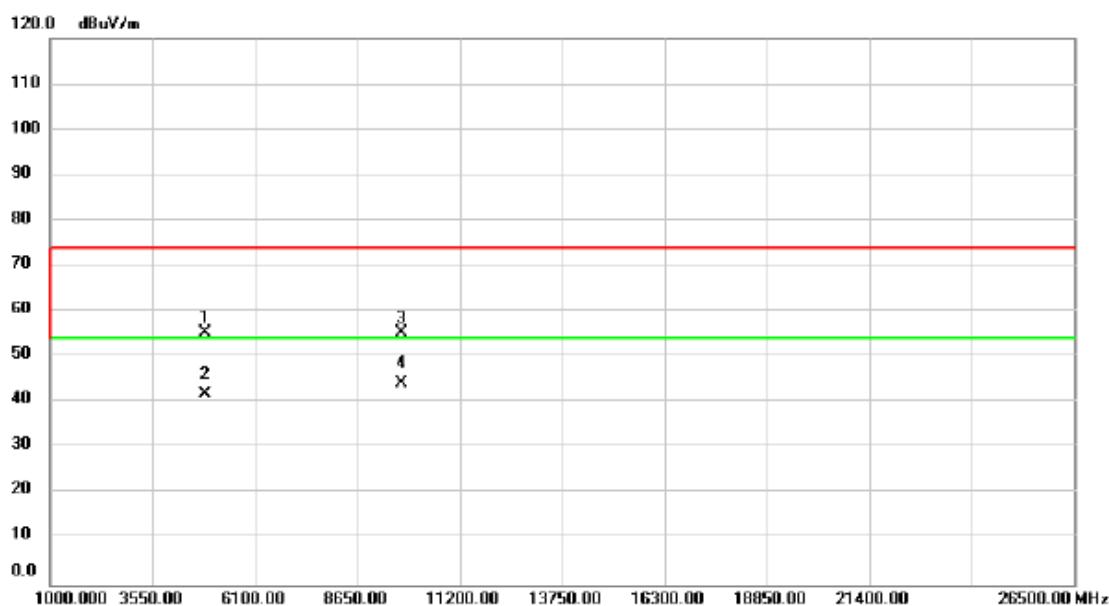
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	68.29	-11.47	56.82	74.00	-17.18	peak	
2		4824.000	53.30	-11.47	41.83	54.00	-12.17	AVG	
3		9648.000	53.55	0.81	54.36	74.00	-19.64	peak	
4	*	9648.000	41.64	0.81	42.45	54.00	-11.55	AVG	

Test Mode: TX N-20M MODE 2437MHz

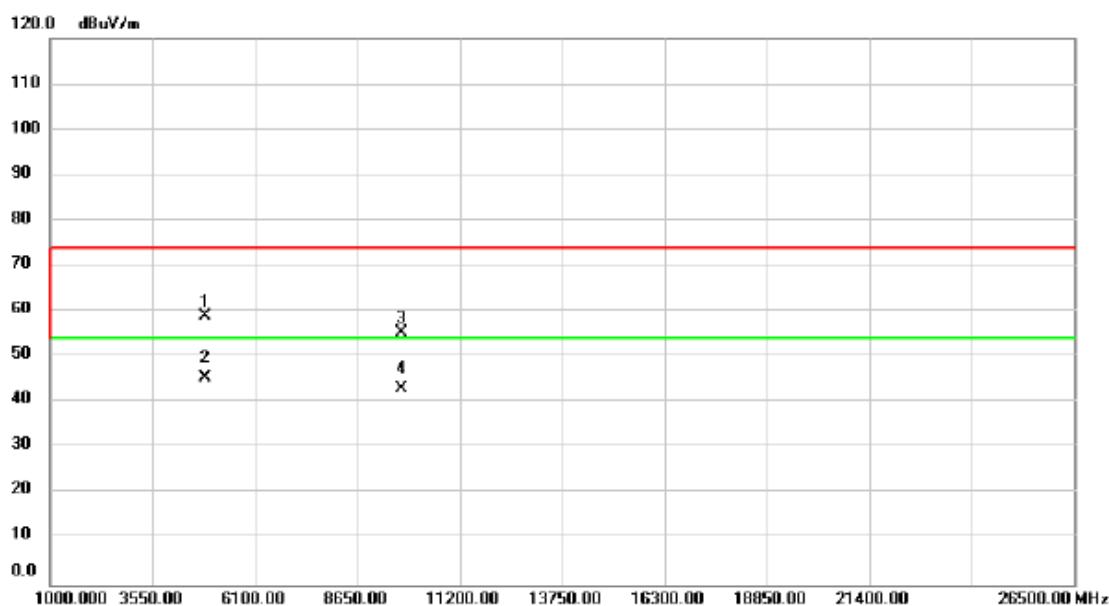
Vertical



No.	Mk.	Reading Level MHz	Correct Factor	Measure- ment dB	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	66.77	-11.39	55.38	74.00	-18.62	peak
2		4874.000	53.22	-11.39	41.83	54.00	-12.17	AVG
3		9748.000	54.37	1.10	55.47	74.00	-18.53	peak
4	*	9748.000	43.11	1.10	44.21	54.00	-9.79	AVG

Test Mode: TX N-20M MODE 2437MHz

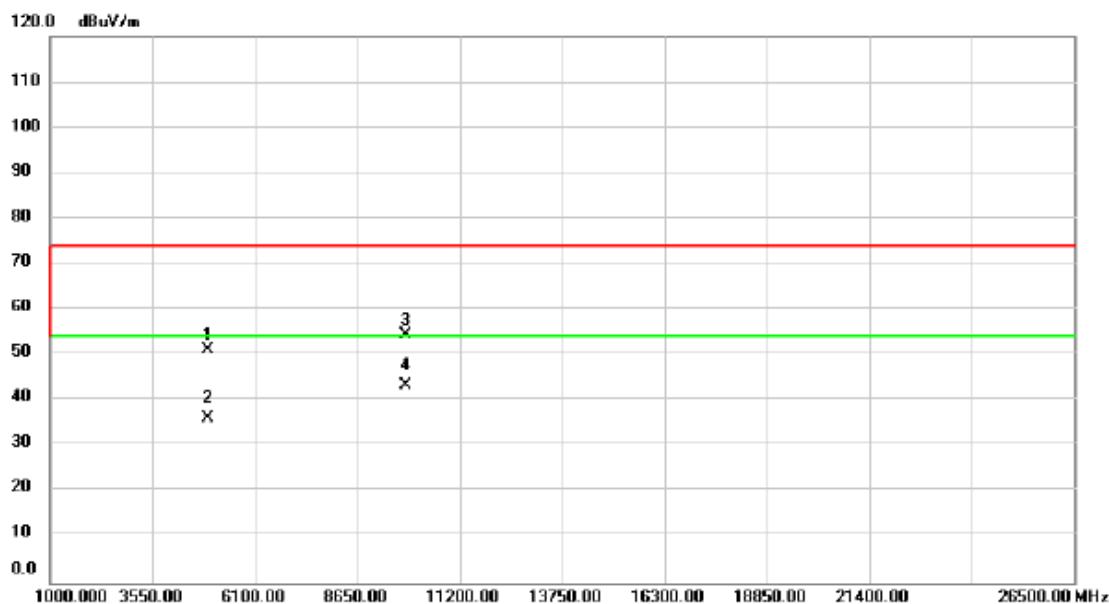
Horizontal



No.	Mk.	Reading Level MHz	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	70.33	-11.39	58.94	74.00	-15.06	peak
2	*	4874.000	56.84	-11.39	45.45	54.00	-8.55	AVG
3		9748.000	54.21	1.10	55.31	74.00	-18.69	peak
4		9748.000	42.02	1.10	43.12	54.00	-10.88	AVG

Test Mode: TX N-20M MODE 2462MHz

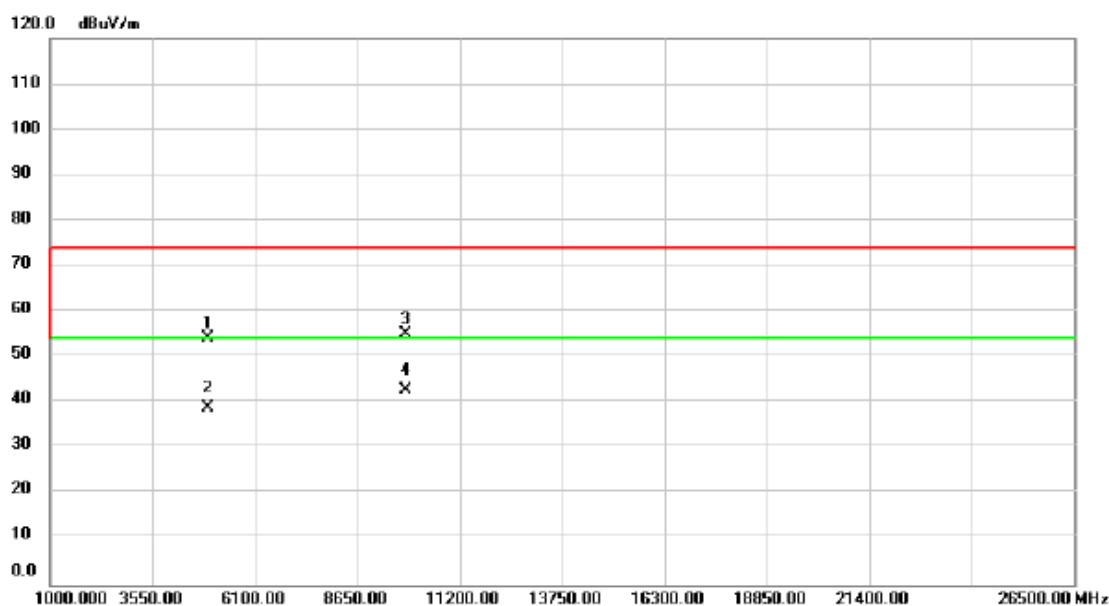
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	62.56	-11.32	51.24	74.00	-22.76	peak	
2		4924.000	47.39	-11.32	36.07	54.00	-17.93	AVG	
3		9848.000	53.05	1.39	54.44	74.00	-19.56	peak	
4	*	9848.000	42.11	1.39	43.50	54.00	-10.50	AVG	

Test Mode: TX N-20M MODE 2462MHz

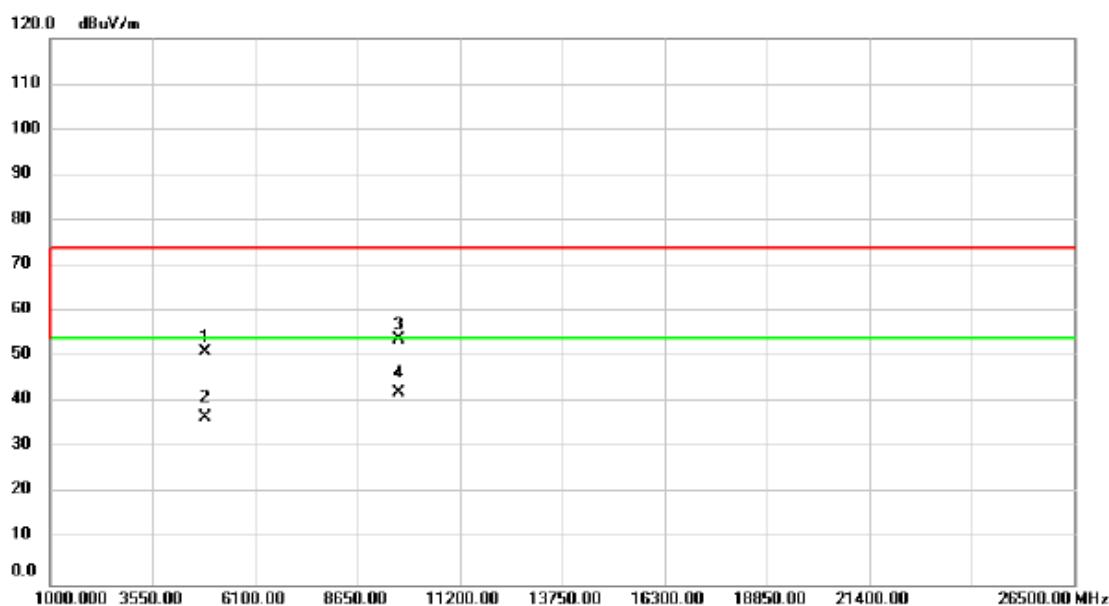
Horizontal



No.	Mk.	Reading Level MHz	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.000	65.37	-11.32	54.05	74.00	-19.95	peak	
2	4924.000	50.31	-11.32	38.99	54.00	-15.01	AVG	
3	9848.000	53.73	1.39	55.12	74.00	-18.88	peak	
4	* 9848.000	41.44	1.39	42.83	54.00	-11.17	AVG	

Test Mode: TX N-40M MODE 2422MHz

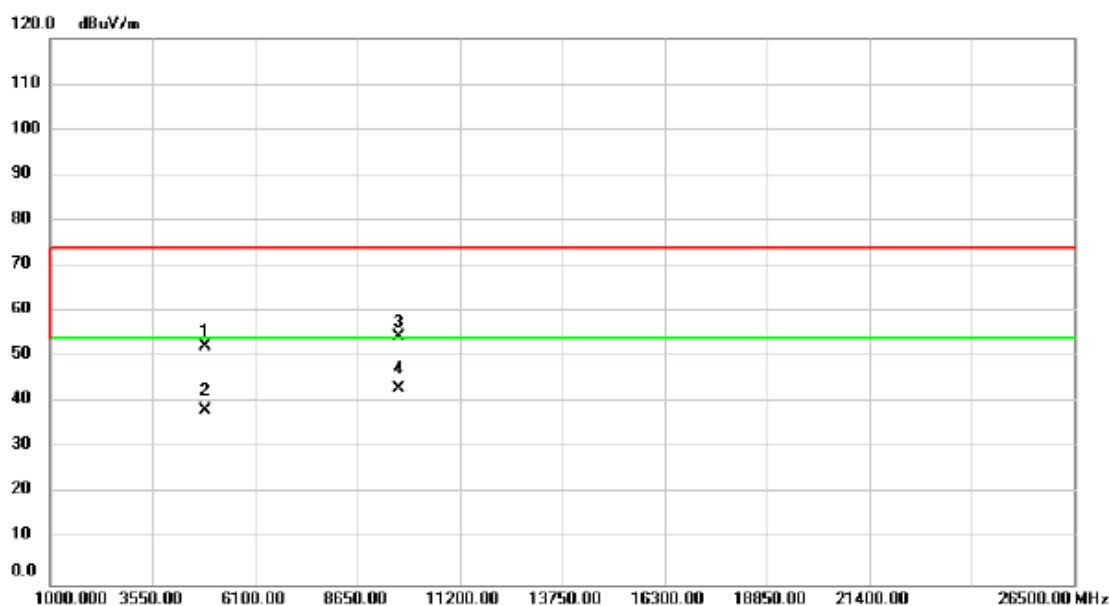
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4844.000	62.73	-11.44	51.29	74.00	-22.71	peak	
2		4844.000	48.15	-11.44	36.71	54.00	-17.29	AVG	
3		9688.000	52.92	0.93	53.85	74.00	-20.15	peak	
4	*	9688.000	41.23	0.93	42.16	54.00	-11.84	AVG	

Test Mode: TX N-40M MODE 2422MHz

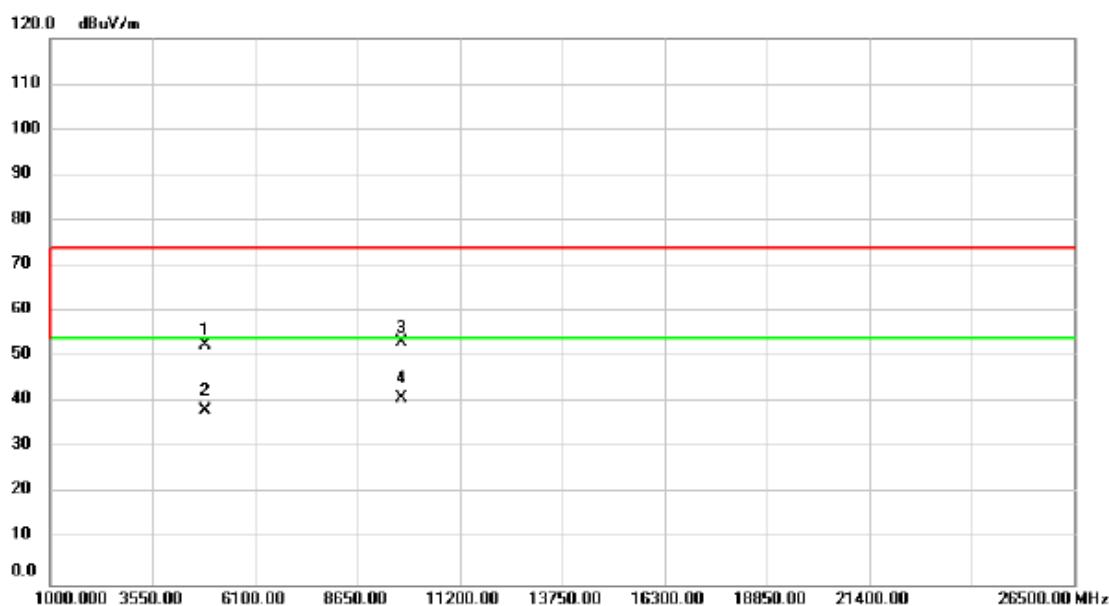
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4844.000	63.64	-11.44	52.20	74.00	-21.80	peak
2		4844.000	49.80	-11.44	38.36	54.00	-15.64	AVG
3		9688.000	53.57	0.93	54.50	74.00	-19.50	peak
4	*	9688.000	42.02	0.93	42.95	54.00	-11.05	AVG

Test Mode: TX N-40M MODE 2437MHz

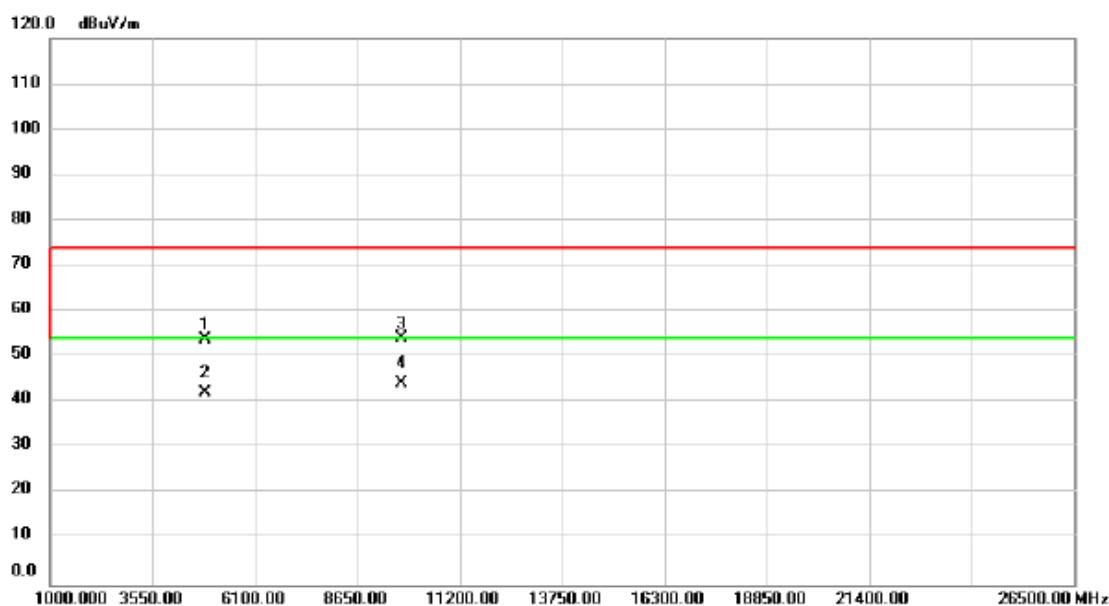
Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4874.000	64.14	-11.39	52.75	74.00	-21.25	peak	
2		4874.000	49.76	-11.39	38.37	54.00	-15.63	AVG	
3		9748.000	52.15	1.10	53.25	74.00	-20.75	peak	
4	*	9748.000	39.94	1.10	41.04	54.00	-12.96	AVG	

Test Mode: TX N-40M MODE 2437MHz

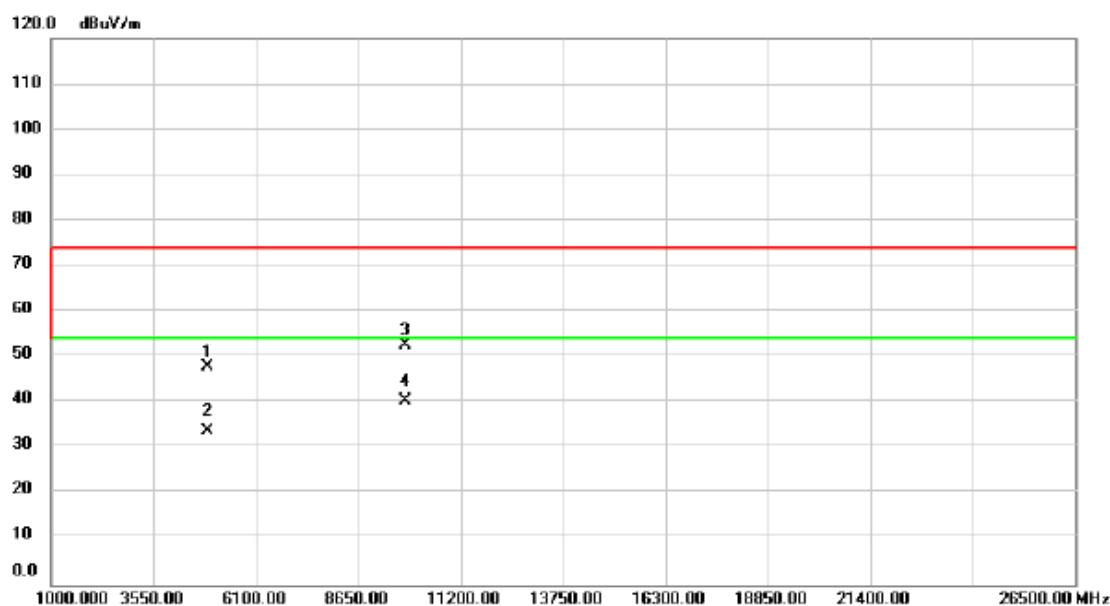
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		4874.000	65.25	-11.39	53.86	74.00	-20.14	peak
2		4874.000	53.40	-11.39	42.01	54.00	-11.99	AVG
3		9748.000	53.14	1.10	54.24	74.00	-19.76	peak
4	*	9748.000	43.02	1.10	44.12	54.00	-9.88	AVG

Test Mode: TX N-40M MODE 2452MHz

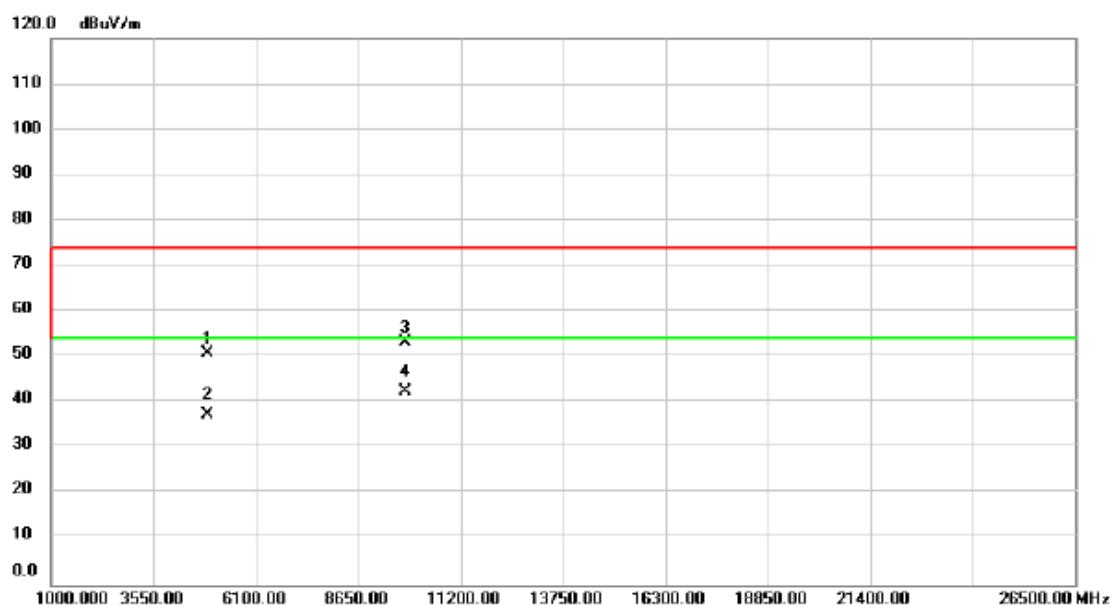
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4904.000	59.18	-11.34	47.84	74.00	-26.16	peak	
2		4904.000	44.99	-11.34	33.65	54.00	-20.35	AVG	
3		9808.000	51.47	1.27	52.74	74.00	-21.26	peak	
4	*	9808.000	39.00	1.27	40.27	54.00	-13.73	AVG	

Test Mode: TX N-40M MODE 2452MHz

Horizontal

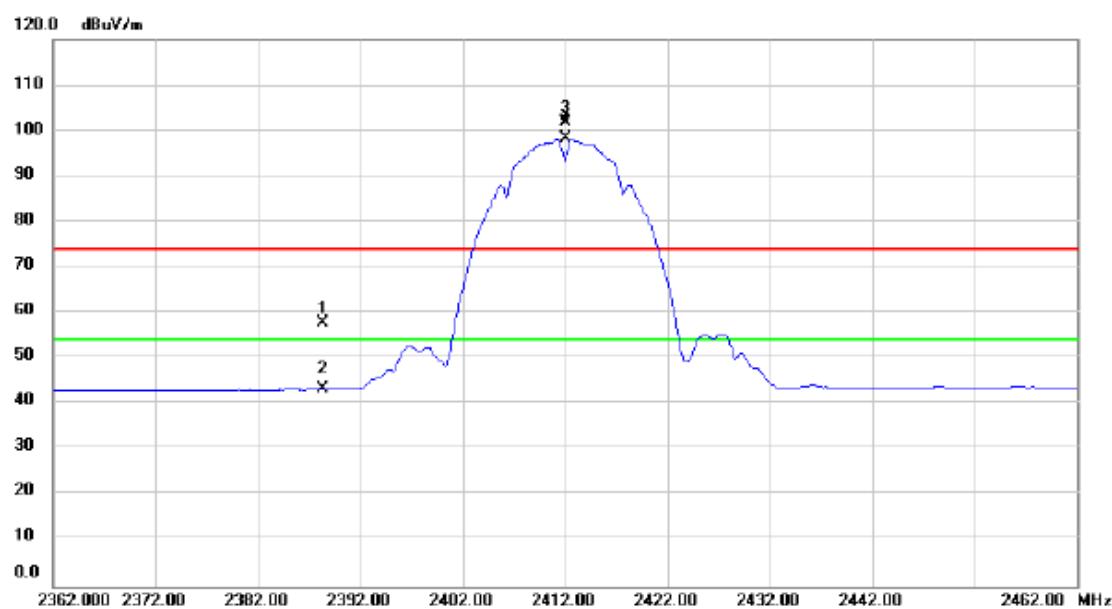


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4904.000	62.34	-11.34	51.00	74.00	-23.00	peak	
2		4904.000	48.63	-11.34	37.29	54.00	-16.71	AVG	
3		9808.000	51.84	1.27	53.11	74.00	-20.89	peak	
4	*	9808.000	41.06	1.27	42.33	54.00	-11.67	AVG	

ATTACHMENT E - BAND EDGE AND FUNDAMENTAL EMISSIONS

Test Mode: TX B MODE 2412MHz

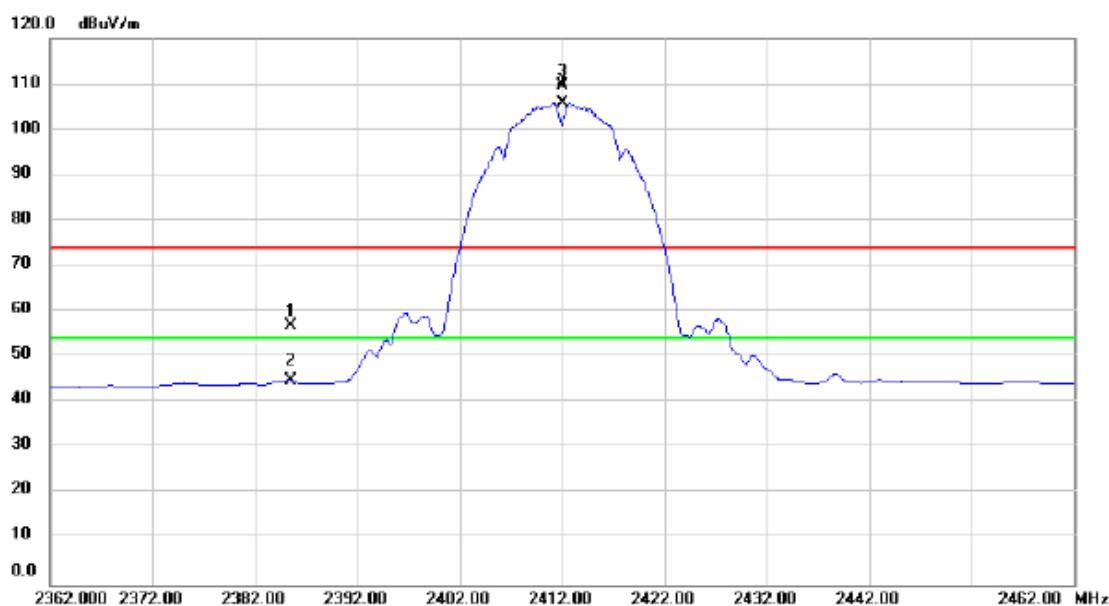
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		2388.300	26.75	30.96	57.71	74.00	-16.29	peak
2		2388.300	12.40	30.96	43.36	54.00	-10.64	AVG
3	X	2412.000	70.73	31.04	101.77	74.00	27.77	peak No Limit
4	*	2412.000	67.08	31.04	98.12	54.00	44.12	AVG No Limit

Test Mode: TX B MODE 2412MHz

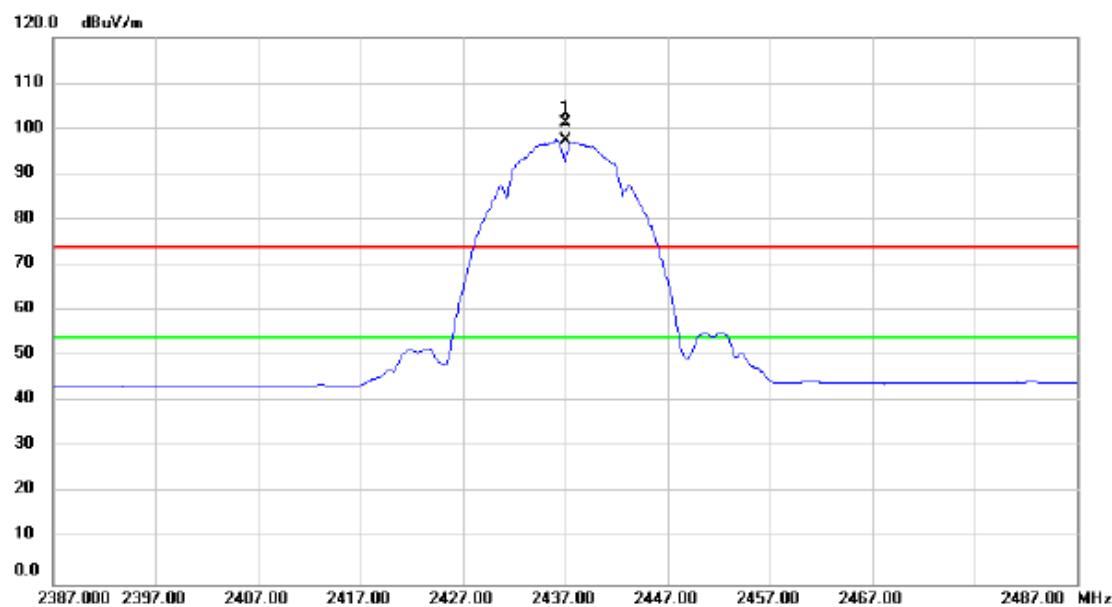
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2385.576	25.82	30.95	56.77	74.00	-17.23	peak	
2		2385.576	13.99	30.95	44.94	54.00	-9.06	AVG	
3	X	2412.000	78.64	31.04	109.68	74.00	35.68	peak	No Limit
4	*	2412.000	74.74	31.04	105.78	54.00	51.78	AVG	No Limit

Test Mode: TX B MODE 2437MHz

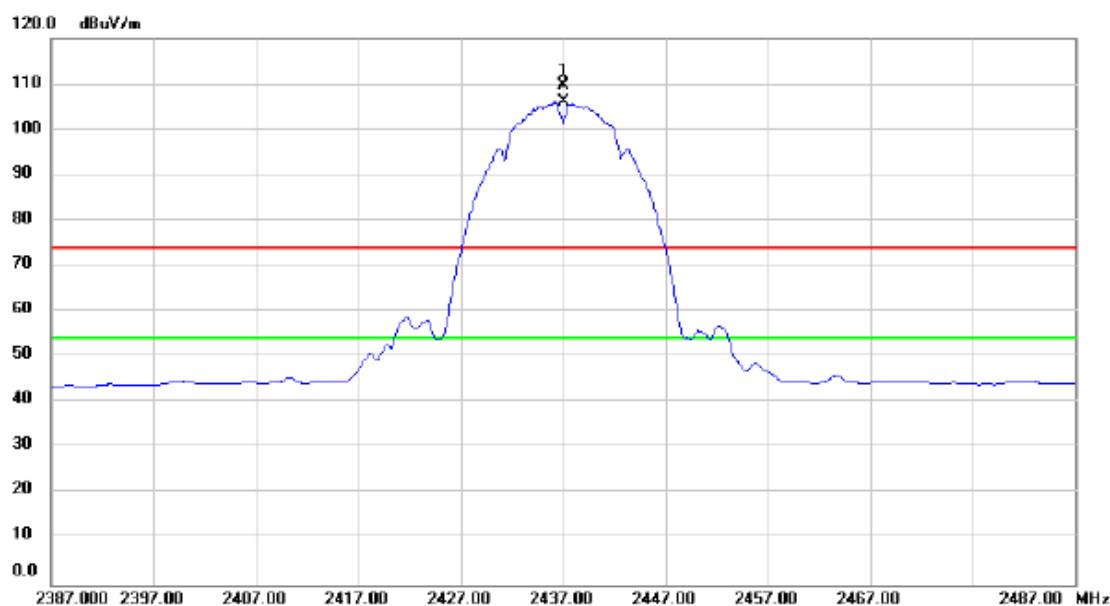
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2437.000	70.14	31.13	101.27	74.00	27.27	peak No Limit
2	*	2437.000	66.37	31.13	97.50	54.00	43.50	AVG No Limit

Test Mode: TX B MODE 2437MHz

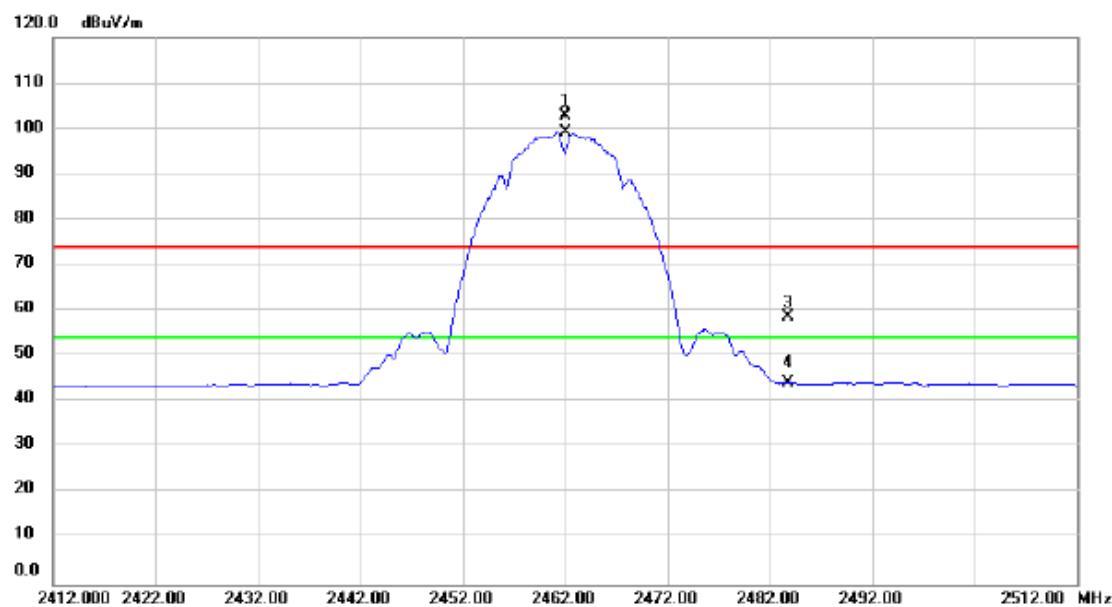
Horizontal



No.	Mk.	Reading	Correct	Measure-	Limit	Margin		
		Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2437.000	78.58	31.13	109.71	74.00	35.71	peak No Limit
2	*	2437.000	74.85	31.13	105.98	54.00	51.98	AVG No Limit

Test Mode: TX B MODE 2462MHz

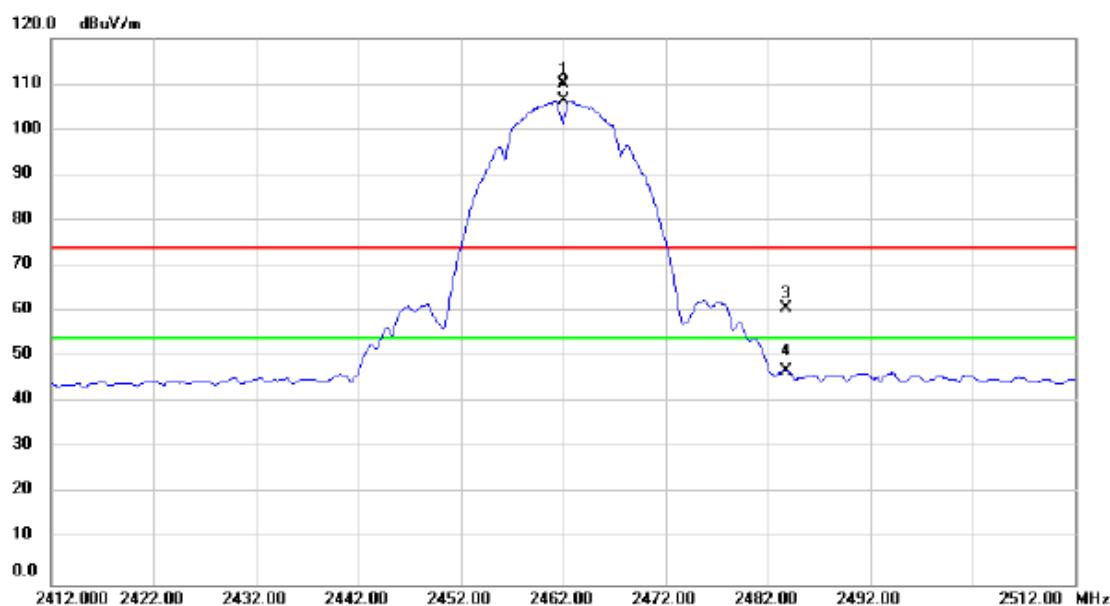
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2462.000	71.63	31.23	102.86	74.00	28.86	peak No Limit
2	*	2462.000	67.90	31.23	99.13	54.00	45.13	AVG No Limit
3		2483.800	27.29	31.31	58.60	74.00	-15.40	peak
4		2483.800	13.07	31.31	44.38	54.00	-9.62	AVG

Test Mode: TX B MODE 2462MHz

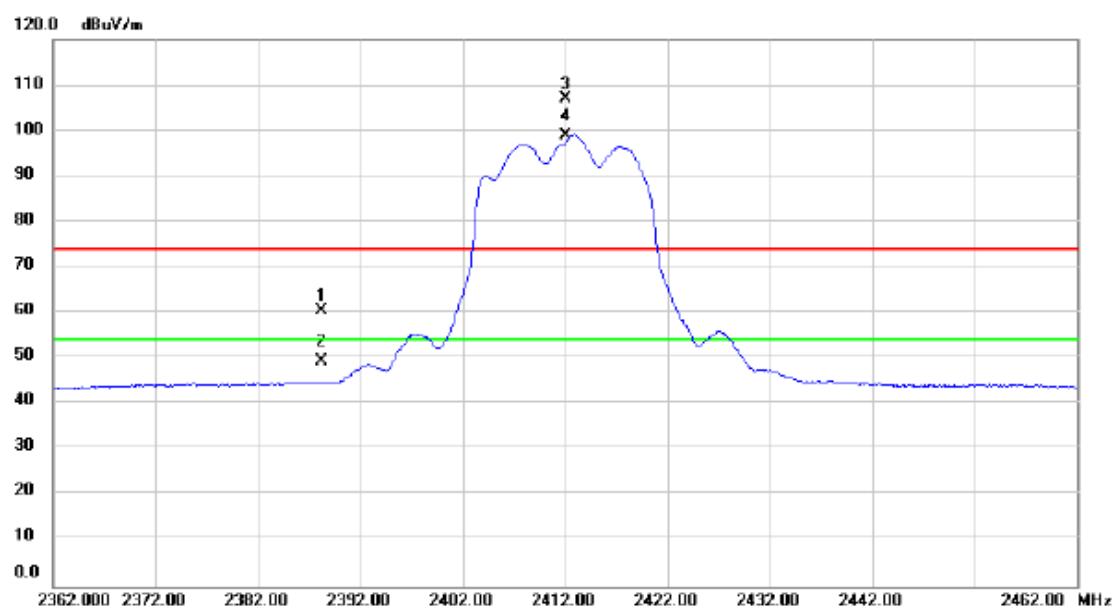
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	X	2462.000	78.85	31.23	110.08	74.00	36.08	peak	No Limit
2	*	2462.000	75.06	31.23	106.29	54.00	52.29	AVG	No Limit
3		2483.800	29.40	31.31	60.71	74.00	-13.29	peak	
4		2483.800	15.65	31.31	46.96	54.00	-7.04	AVG	

Test Mode: TX G MODE 2412MHz

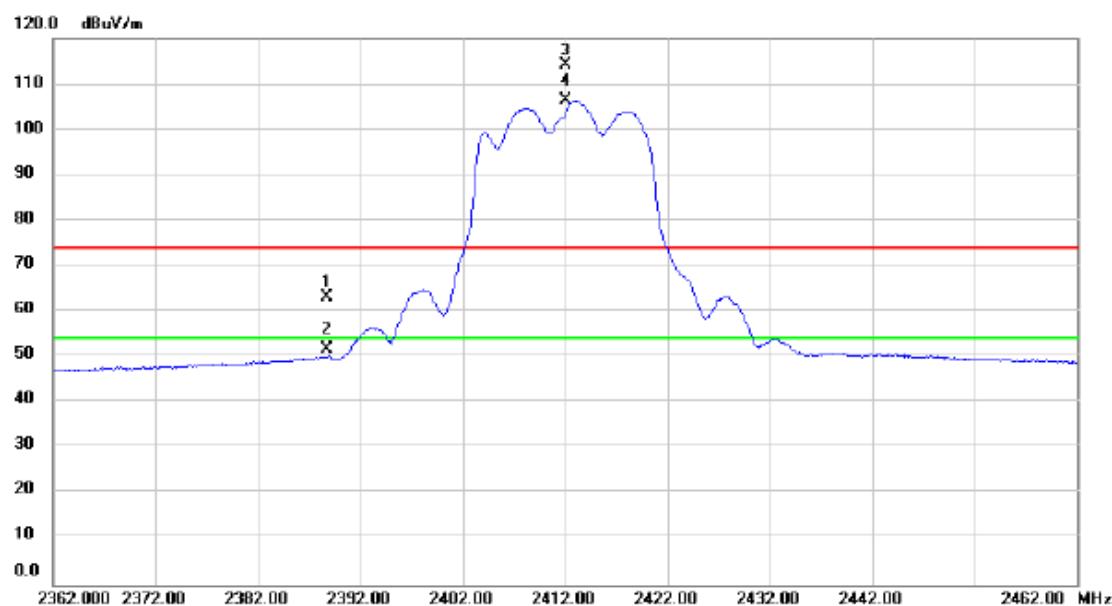
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		2388.152	29.45	30.96	60.41	74.00	-13.59	peak
2		2388.152	18.32	30.96	49.28	54.00	-4.72	AVG
3	X	2412.000	75.81	31.04	106.85	74.00	32.85	peak No Limit
4	*	2412.000	67.96	31.04	99.00	54.00	45.00	AVG No Limit

Test Mode: TX G MODE 2412MHz

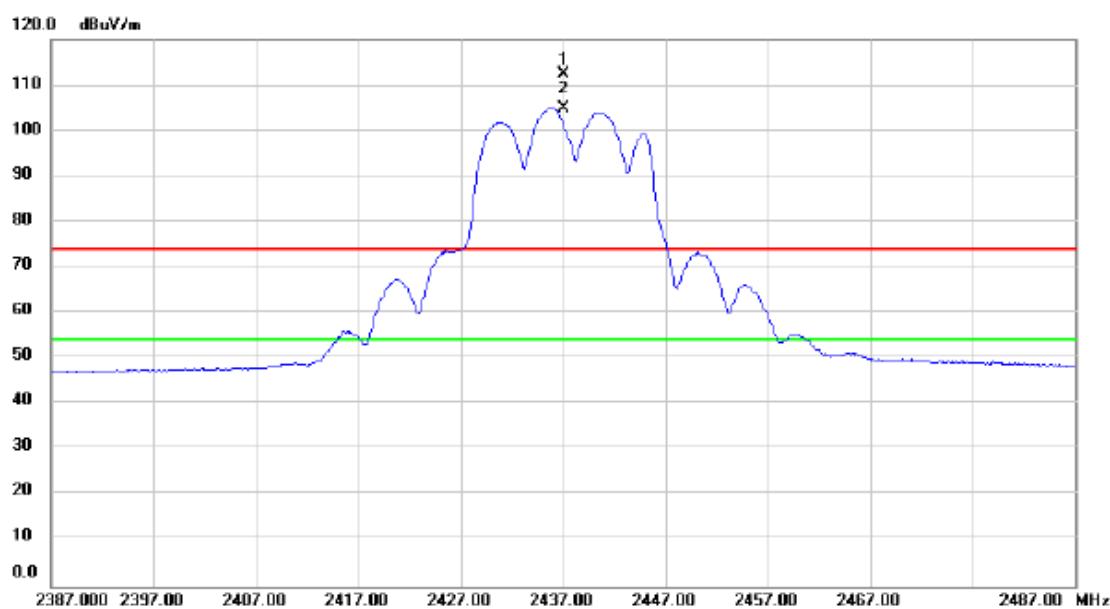
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2388.740	32.17	30.96	63.13	74.00	-10.87	peak	
2		2388.740	20.92	30.96	51.88	54.00	-2.12	AVG	
3	X	2412.000	83.13	31.04	114.17	74.00	40.17	peak	No Limit
4	*	2412.000	75.33	31.04	106.37	54.00	52.37	AVG	No Limit

Test Mode: TX G MODE 2437MHz

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2437.000	81.24	31.13	112.37	74.00	38.37	peak No Limit
2	*	2437.000	73.69	31.13	104.82	54.00	50.82	AVG No Limit

Test Mode: TX G MODE 2437MHz

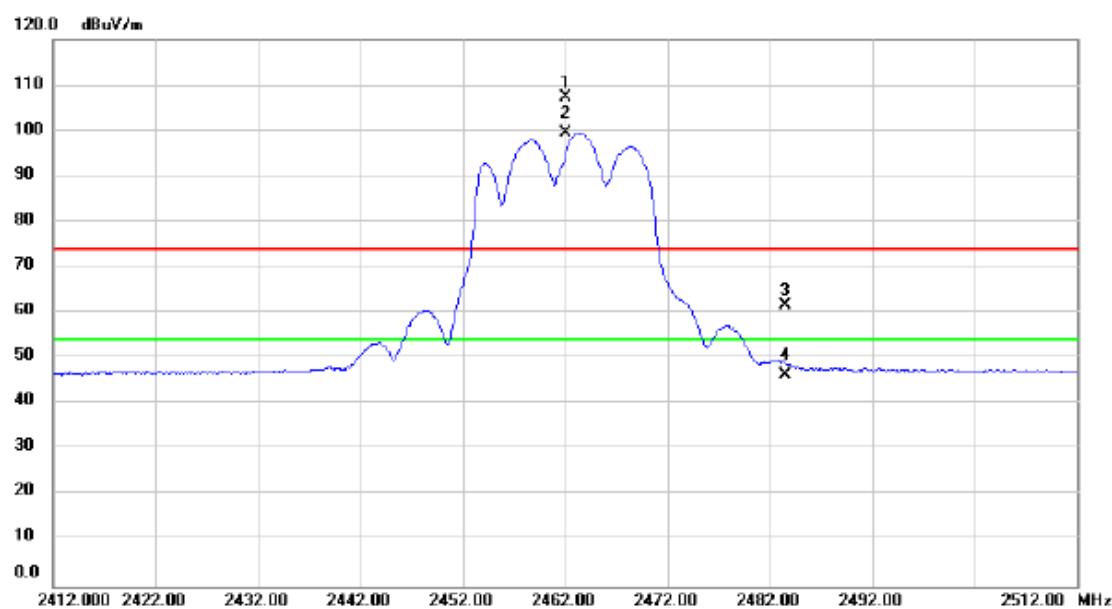
Horizontal



No.	Mk.	Reading	Correct	Measure-	Limit	Margin		
		Freq.	Level	Factor				
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2437.000	87.77	31.13	118.90	74.00	44.90	peak No Limit
2	*	2437.000	79.60	31.13	110.73	54.00	56.73	AVG No Limit

Test Mode: TX G MODE 2462MHz

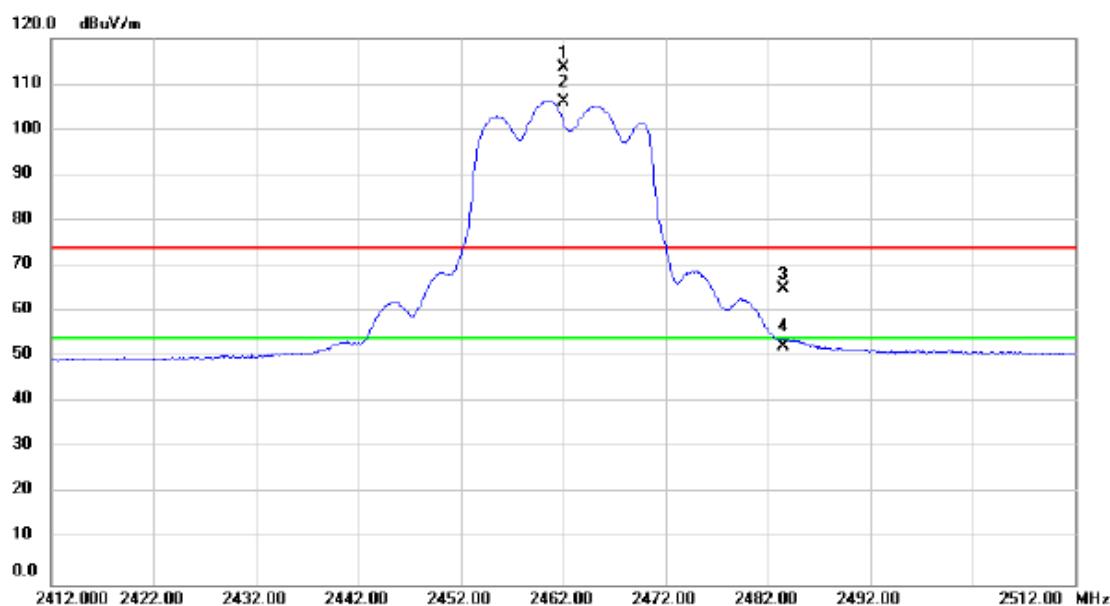
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2462.000	76.08	31.23	107.31	74.00	33.31	peak No Limit
2	*	2462.000	68.19	31.23	99.42	54.00	45.42	AVG No Limit
3		2483.500	30.24	31.31	61.55	74.00	-12.45	peak
4		2483.500	14.96	31.31	46.27	54.00	-7.73	AVG

Test Mode: TX G MODE 2462MHz

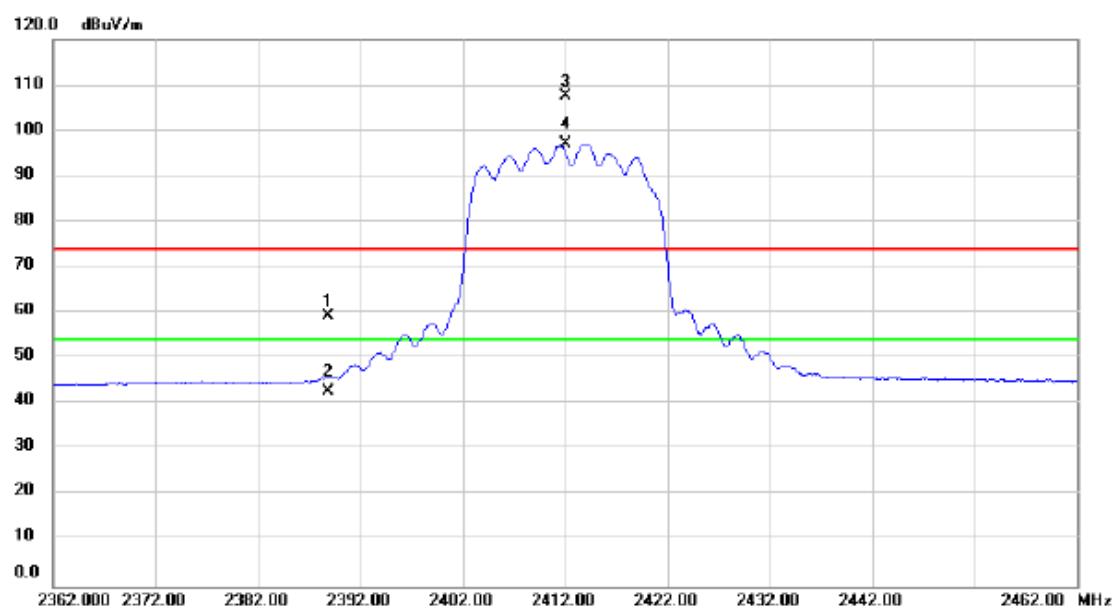
Horizontal



No.	Mk.	Reading Level MHz	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.000	82.45	31.23	113.68	74.00	39.68	peak No Limit
2	*	2462.000	74.96	31.23	106.19	54.00	52.19	AVG No Limit
3		2483.599	33.50	31.31	64.81	74.00	-9.19	peak
4		2483.599	21.04	31.31	52.35	54.00	-1.65	AVG

Test Mode: TX N-20M MODE 2412MHz

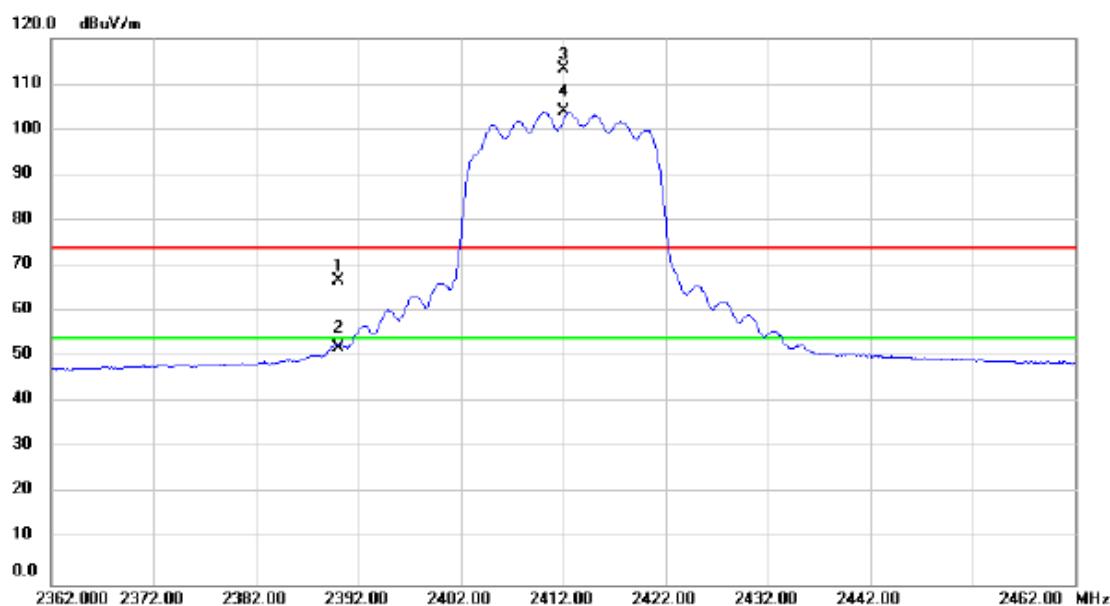
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		2388.852	28.15	30.96	59.11	74.00	-14.89	peak
2		2388.852	11.74	30.96	42.70	54.00	-11.30	AVG
3	X	2412.000	76.49	31.04	107.53	74.00	33.53	peak No Limit
4	*	2412.000	66.03	31.04	97.07	54.00	43.07	AVG No Limit

Test Mode: TX N-20M MODE 2412MHz

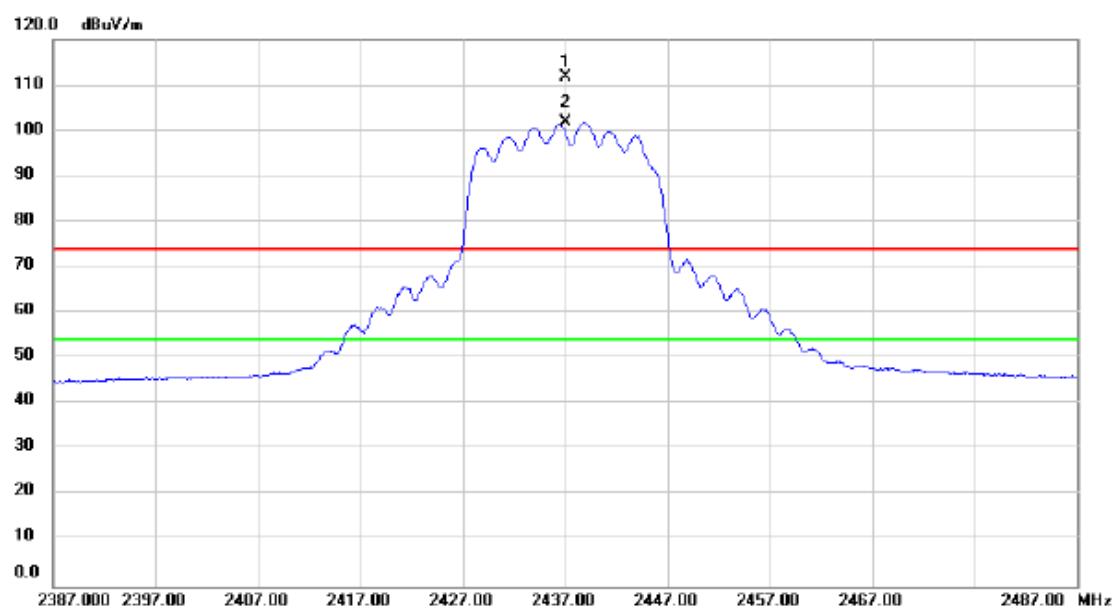
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	
1		2390.000	35.65	30.96	66.61	74.00	-7.39	peak
2		2390.000	21.21	30.96	52.17	54.00	-1.83	AVG
3	X	2412.000	82.14	31.04	113.18	74.00	39.18	peak No Limit
4	*	2412.000	72.81	31.04	103.85	54.00	49.85	AVG No Limit

Test Mode: TX N-20M MODE 2437MHz

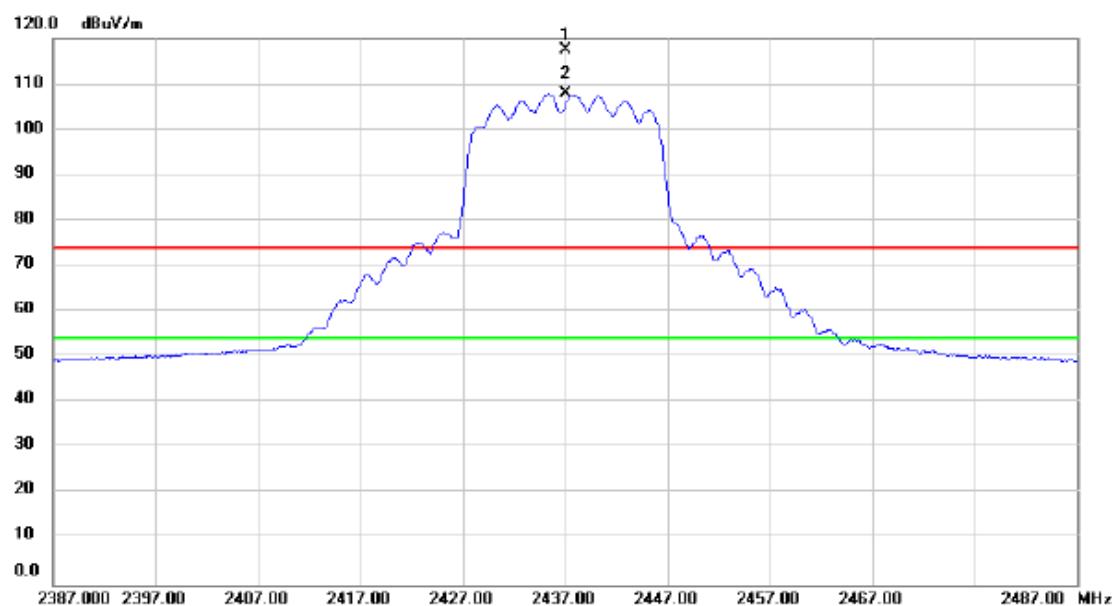
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2437.000	80.62	31.13	111.75	74.00	37.75	peak No Limit
2	*	2437.000	70.76	31.13	101.89	54.00	47.89	AVG No Limit

Test Mode: TX N-20M MODE 2437MHz

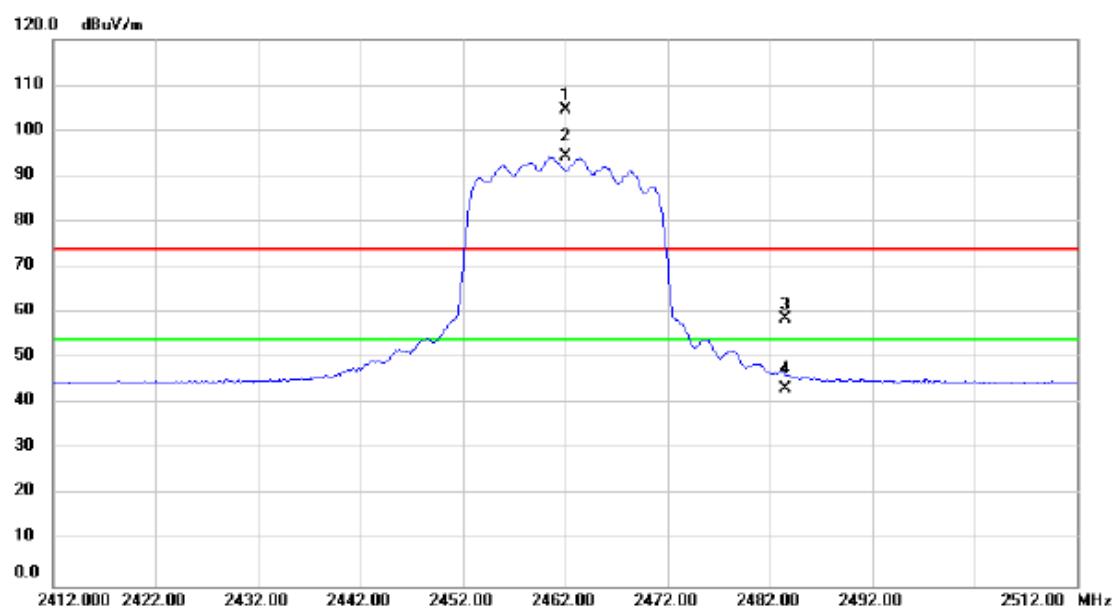
Horizontal



No.	Mk.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X 2437.000	86.34	31.13	117.47	74.00	43.47	peak	No Limit
2	* 2437.000	76.78	31.13	107.91	54.00	53.91	AVG	No Limit

Test Mode: TX N-20M MODE 2462MHz

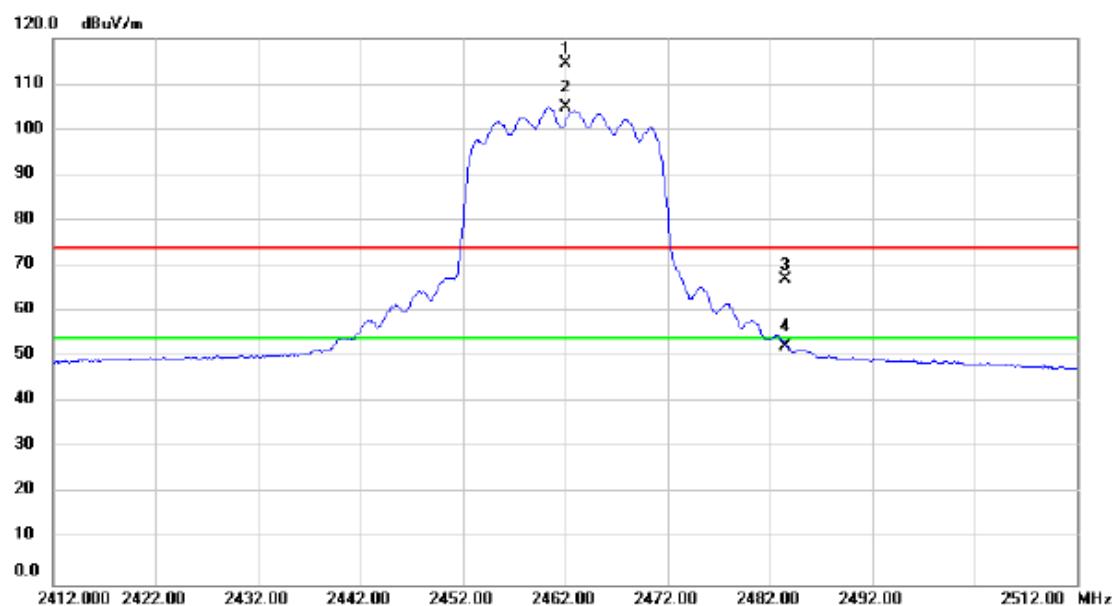
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2462.000	73.17	31.23	104.40	74.00	30.40	peak No Limit
2	*	2462.000	63.01	31.23	94.24	54.00	40.24	AVG No Limit
3		2483.500	27.21	31.31	58.52	74.00	-15.48	peak
4		2483.500	12.18	31.31	43.49	54.00	-10.51	AVG

Test Mode: TX N-20M MODE 2462MHz

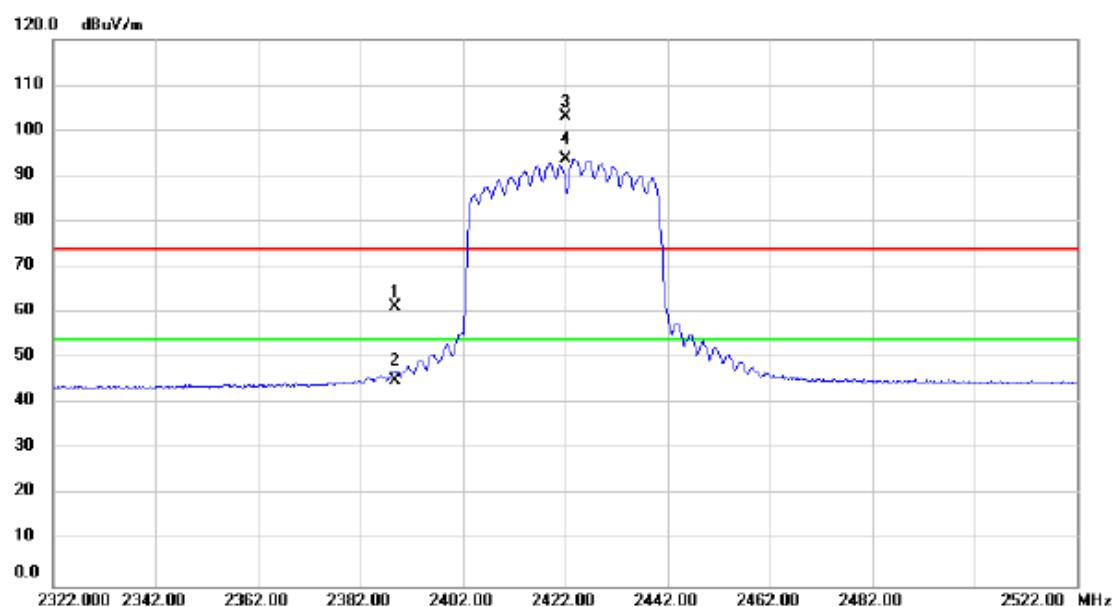
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Comment
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	
1	X	2462.000	83.11	31.23	114.34	74.00	40.34	peak No Limit
2	*	2462.000	73.64	31.23	104.87	54.00	50.87	AVG No Limit
3		2483.500	35.59	31.31	66.90	74.00	-7.10	peak
4		2483.500	21.16	31.31	52.47	54.00	-1.53	AVG

Test Mode: TX N-40M MODE 2422MHz

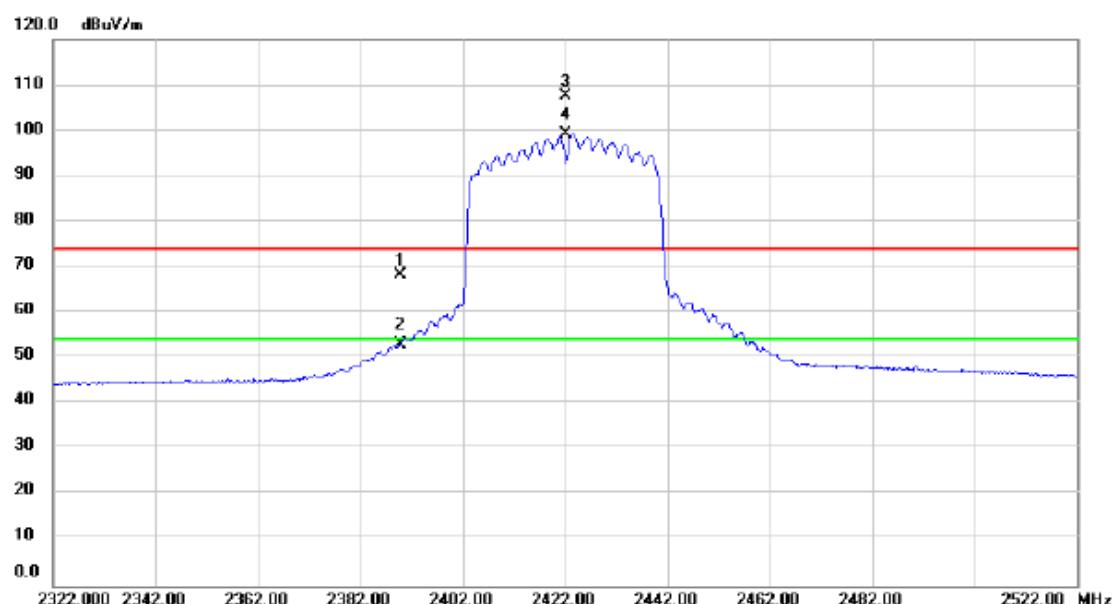
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1		2388.776	30.52	30.96	61.48	74.00	-12.52	peak
2		2388.776	14.14	30.96	45.10	54.00	-8.90	AVG
3	X	2422.000	72.04	31.08	103.12	74.00	29.12	peak No Limit
4	*	2422.000	62.73	31.08	93.81	54.00	39.81	AVG No Limit

Test Mode: TX N-40M MODE 2422MHz

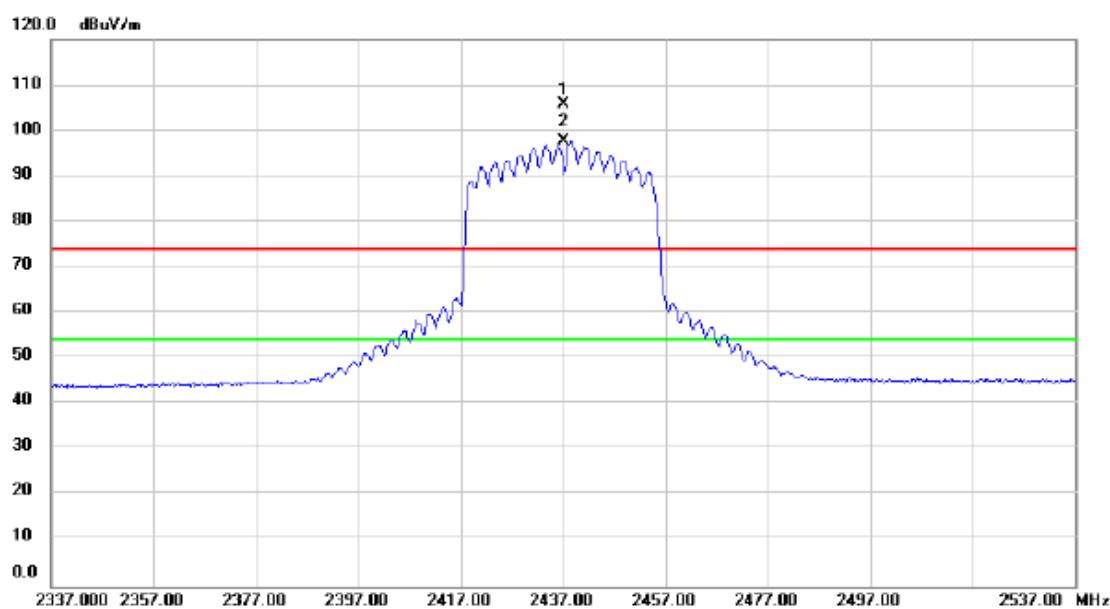
Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dB			
1		2389.932	37.21	30.96	68.17	74.00	-5.83	peak	
2		2389.932	22.03	30.96	52.99	54.00	-1.01	AVG	
3	X	2422.000	76.55	31.08	107.63	74.00	33.63	peak	No Limit
4	*	2422.000	68.13	31.08	99.21	54.00	45.21	AVG	No Limit

Test Mode: TX N-40M MODE 2437MHz

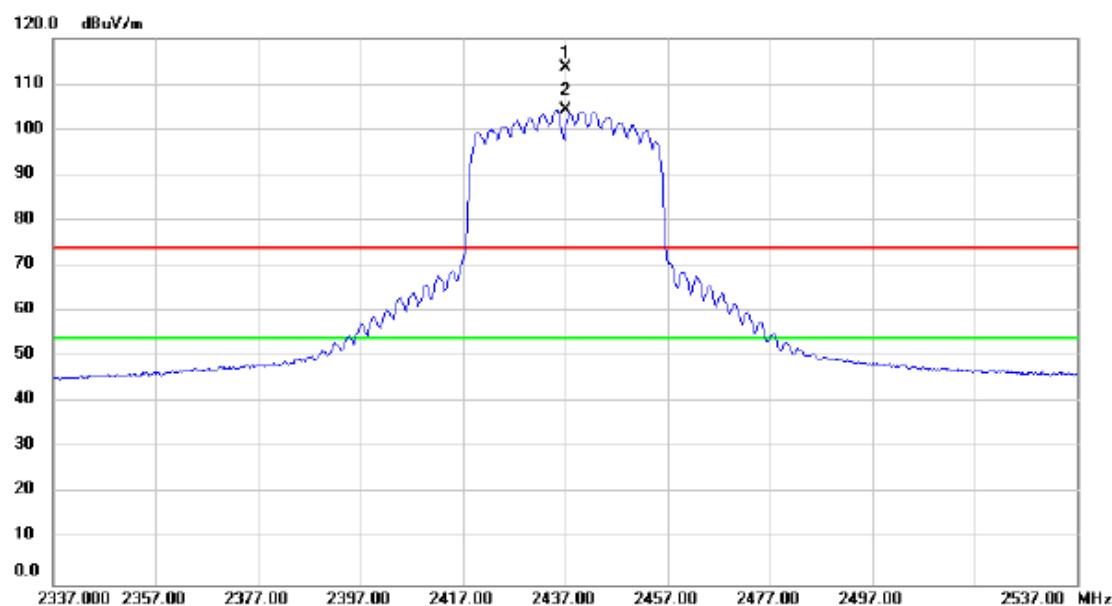
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2437.000	74.67	31.13	105.80	74.00	31.80	peak No Limit
2	*	2437.000	66.48	31.13	97.61	54.00	43.61	AVG No Limit

Test Mode: TX N-40M MODE 2437MHz

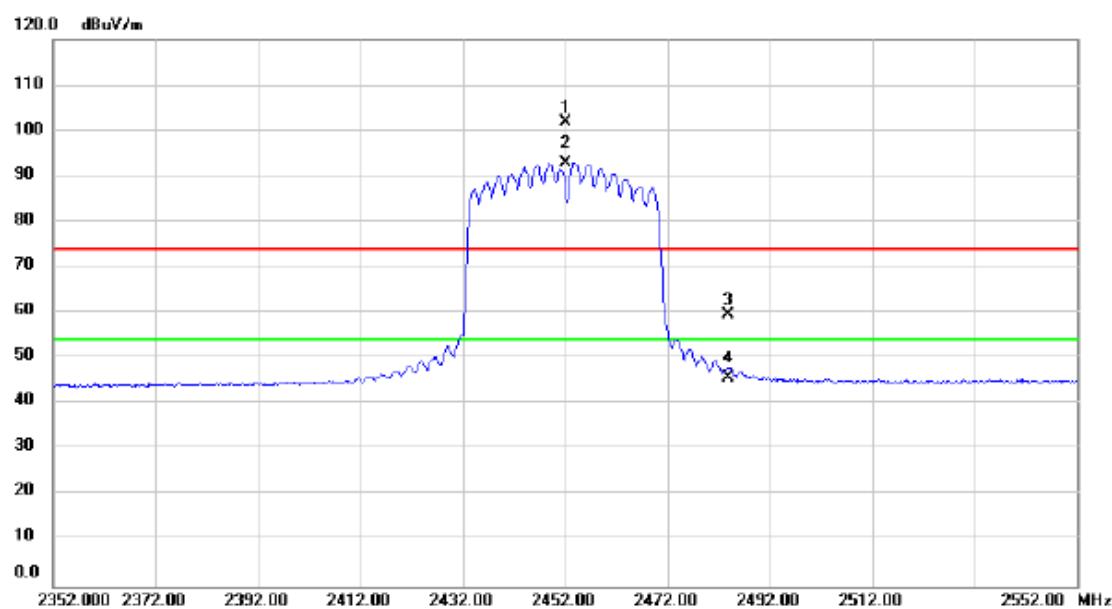
Horizontal



No.	Mk.	Reading	Correct	Measure-	Limit	Margin		
		Level	Factor	ment	dBuV/m	dB	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dB		
1	X	2437.000	82.28	31.13	113.41	74.00	39.41	peak No Limit
2	*	2437.000	73.02	31.13	104.15	54.00	50.15	AVG No Limit

Test Mode: TX N-40M MODE 2452MHz

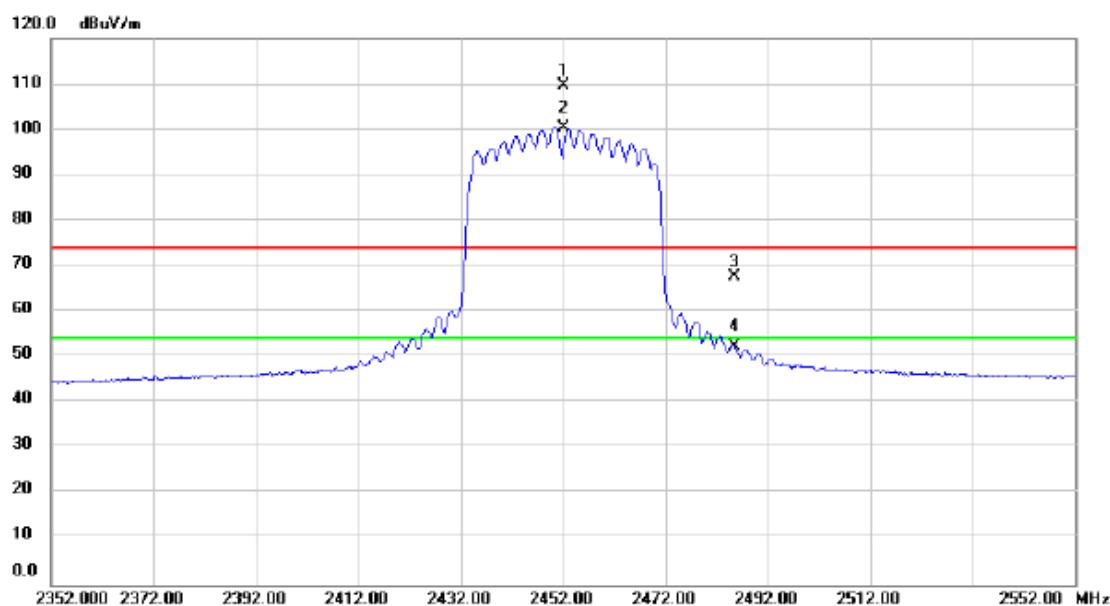
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2452.000	70.56	31.20	101.76	74.00	27.76	peak No Limit
2	*	2452.000	61.66	31.20	92.86	54.00	38.86	AVG No Limit
3		2483.843	28.17	31.31	59.48	74.00	-14.52	peak
4		2483.843	14.36	31.31	45.67	54.00	-8.33	AVG

Test Mode: TX N-40M MODE 2452MHz

Horizontal

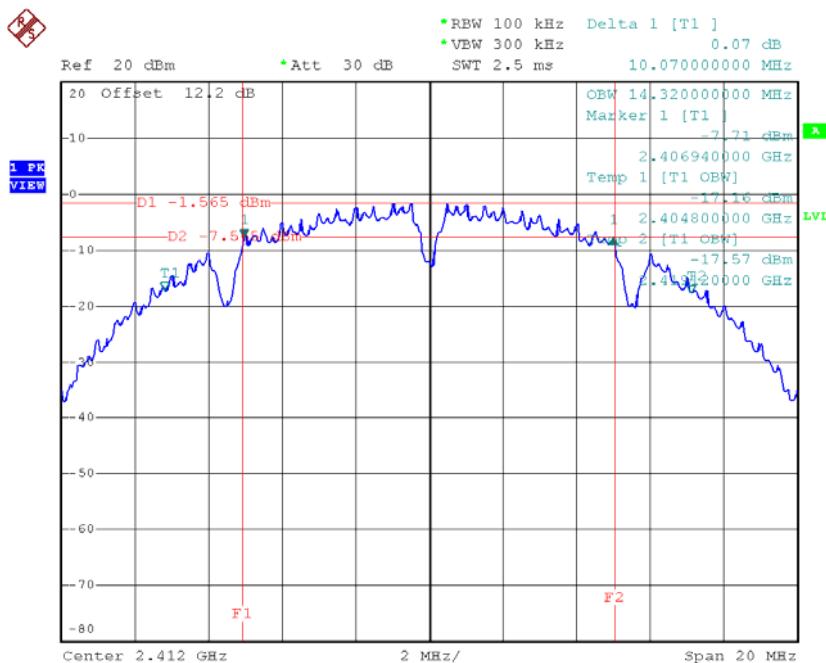


No.	Mk.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X 2452.000	78.31	31.20	109.51	74.00	35.51	peak	No Limit
2	* 2452.000	69.29	31.20	100.49	54.00	46.49	AVG	No Limit
3	2485.398	36.45	31.32	67.77	74.00	-6.23	peak	
4	2485.398	20.98	31.32	52.30	54.00	-1.70	AVG	

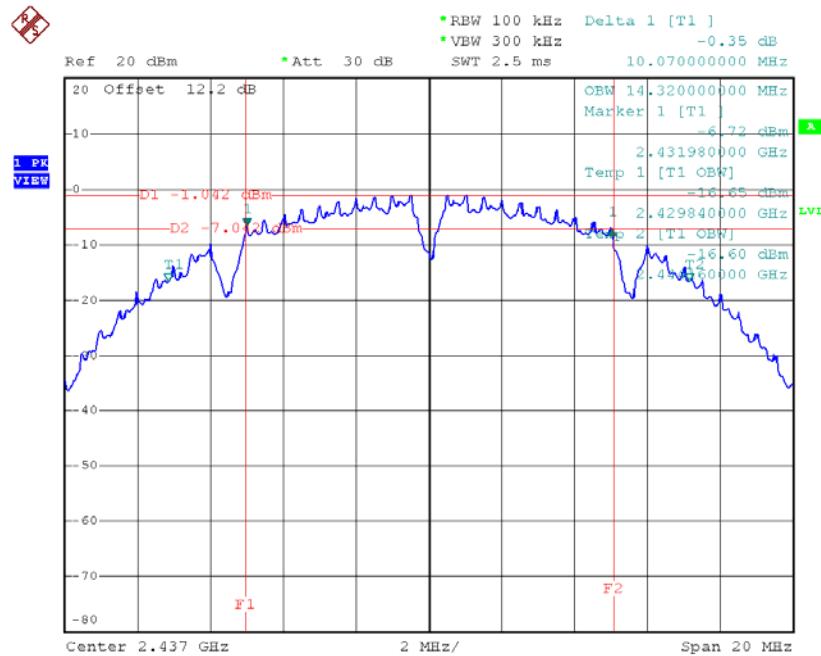
ATTACHMENT F - BANDWIDTH

Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.07	14.32	500	Complies
2437	10.07	14.32	500	Complies
2462	8.64	14.32	500	Complies

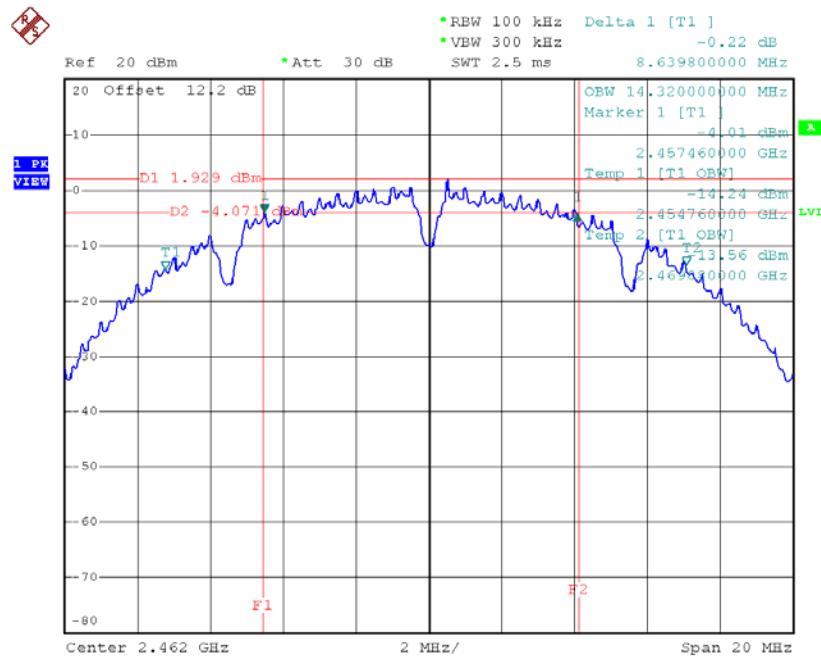
TX CH01


TX CH06



Date: 3.OCT.2016 10:11:33

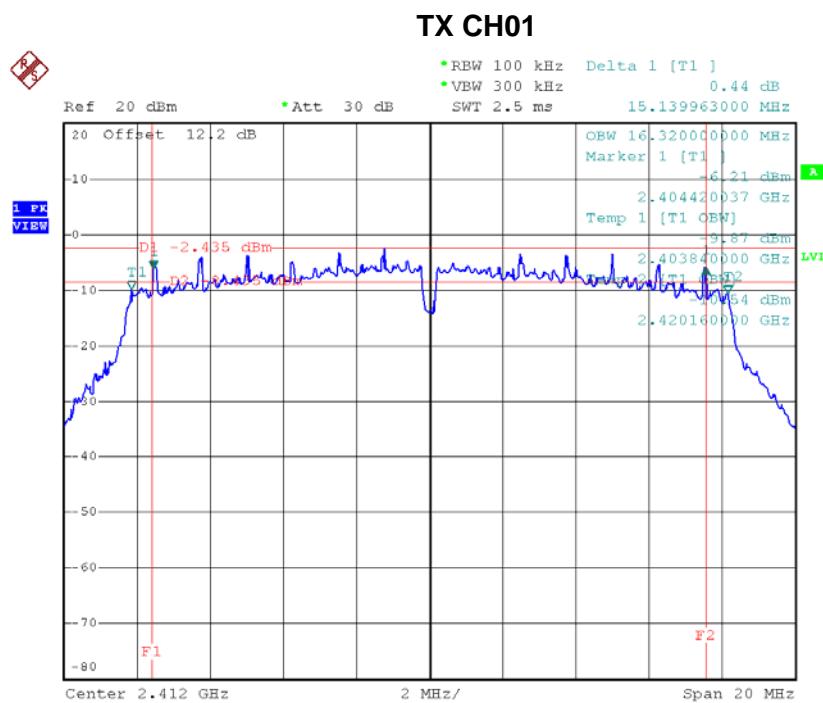
TX CH11



Date: 3.OCT.2016 10:13:30

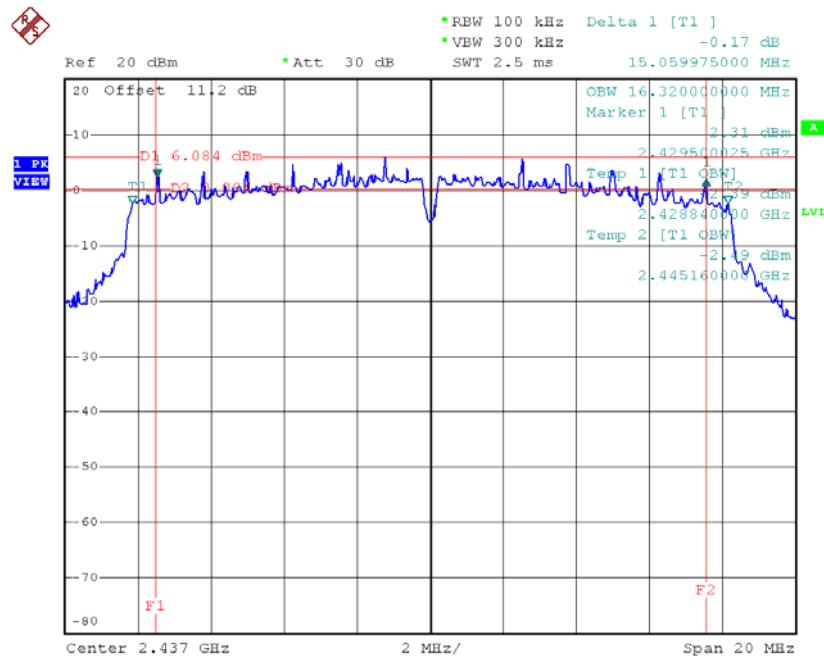
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.14	16.32	500	Complies
2437	15.06	16.32	500	Complies
2462	15.14	16.32	500	Complies



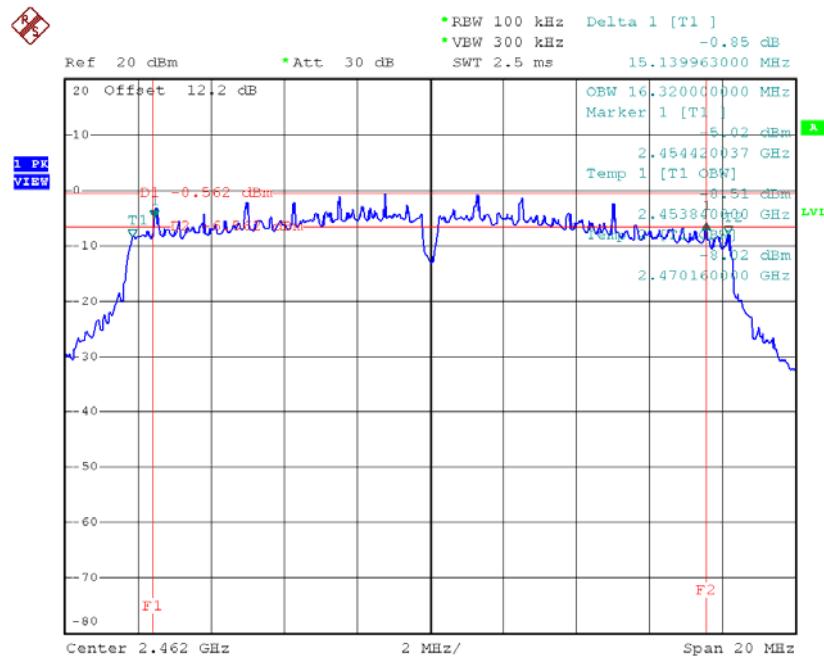
Date: 3.OCT.2016 10:39:05

TX CH06



Date: 30.JUL.2016 15:22:15

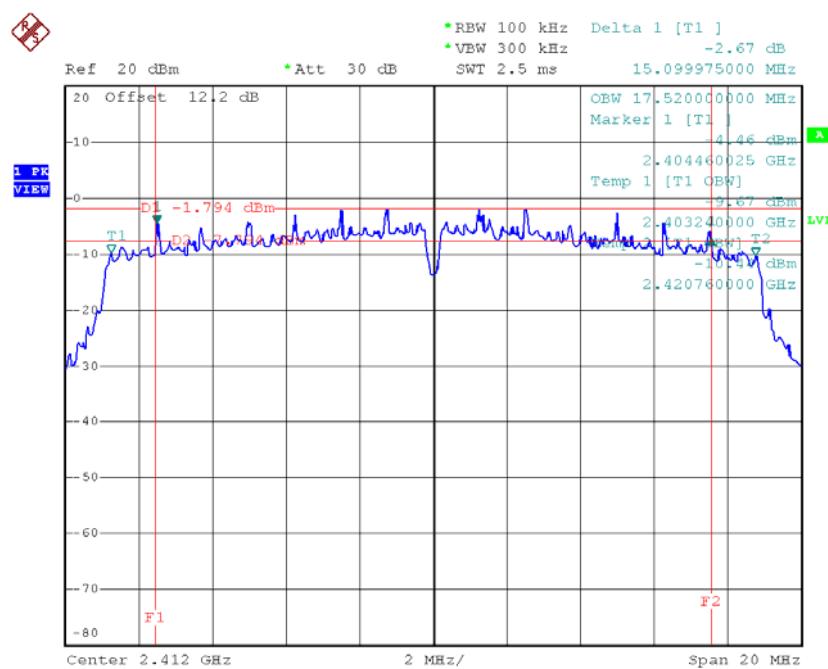
TX CH11



Date: 3.OCT.2016 10:43:07

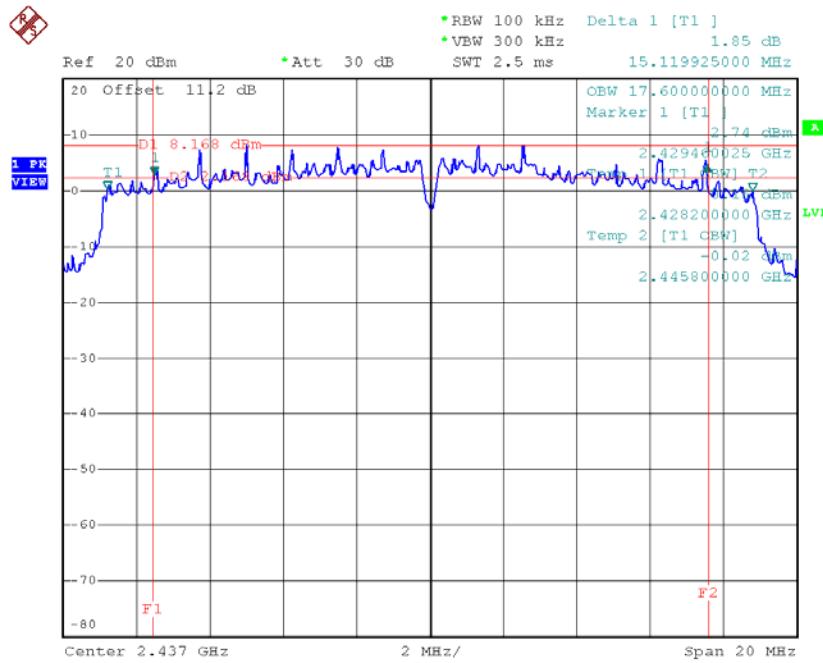
Test Mode: TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.10	17.52	500	Complies
2437	15.12	17.60	500	Complies
2462	15.06	17.48	500	Complies

TX CH01


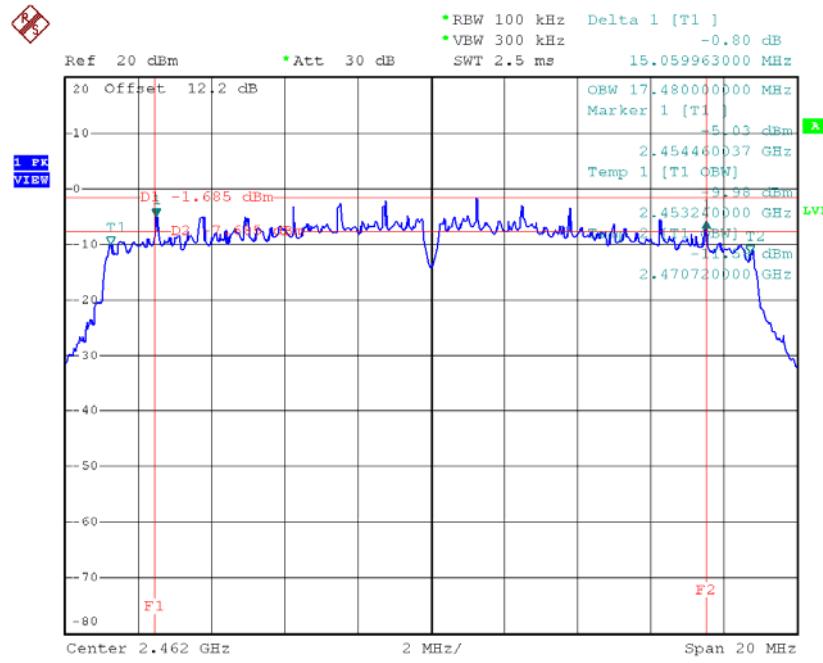
Date: 3.OCT.2016 10:56:39

TX CH06



Date: 30.JUL.2016 15:36:44

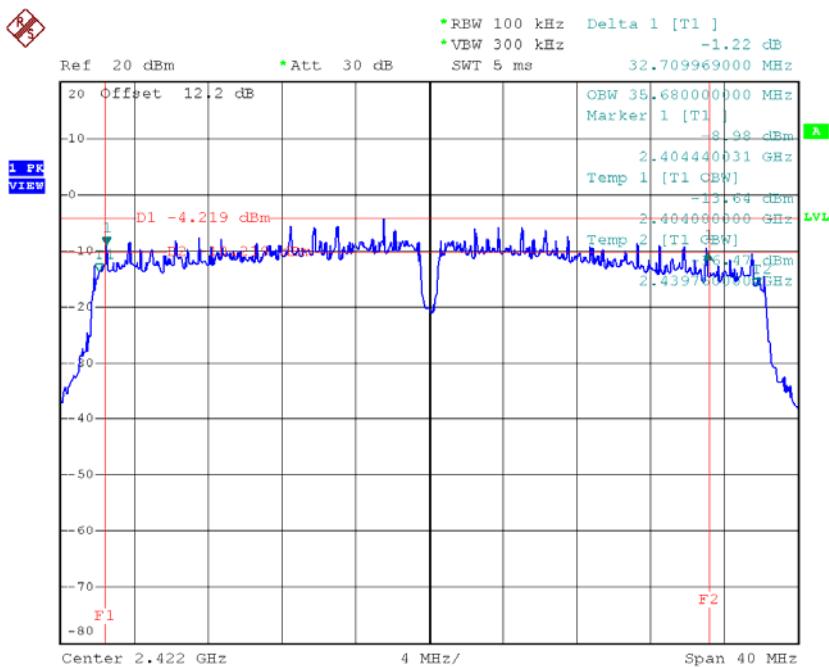
TX CH11



Date: 3.OCT.2016 10:59:39

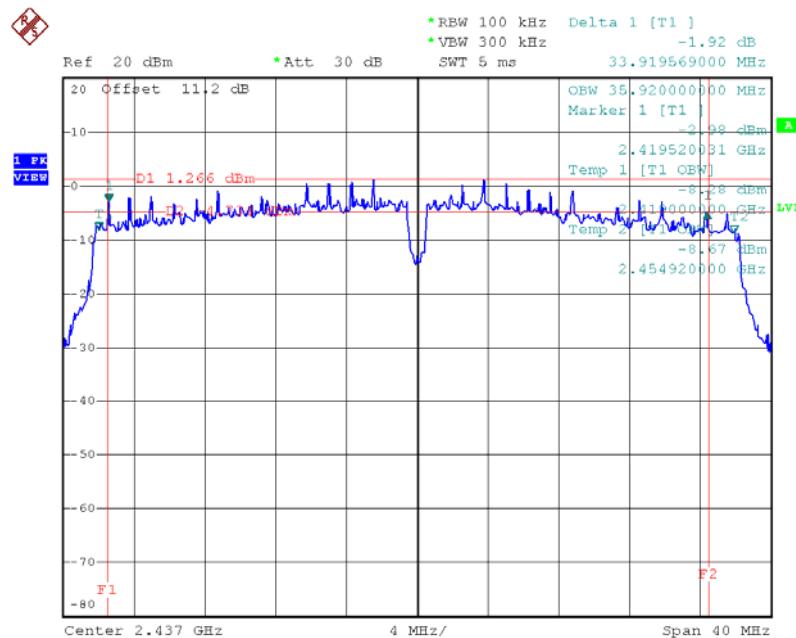
Test Mode: TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	32.71	35.68	500	Complies
2437	33.92	35.92	500	Complies
2452	35.12	35.68	500	Complies

TX CH03


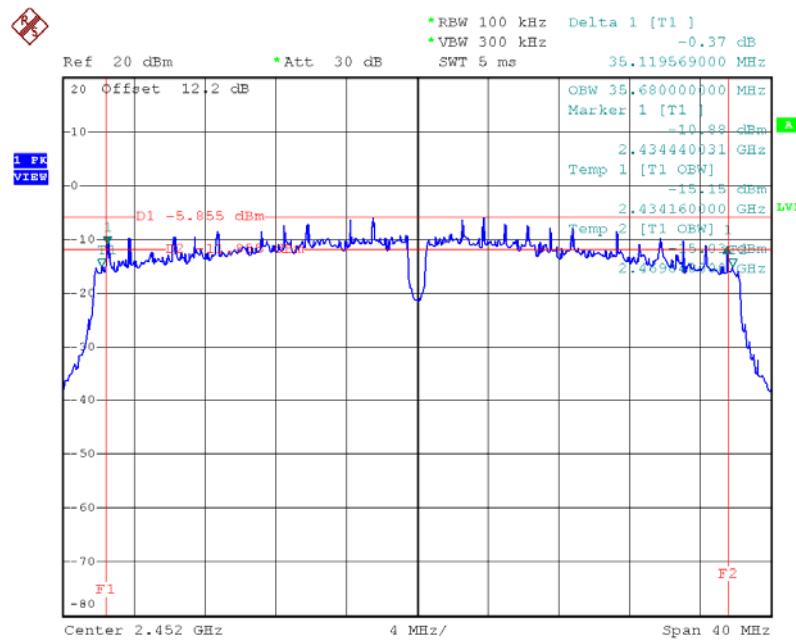
Date: 3.OCT.2016 11:17:12

TX CH06



Date: 30.JUL.2016 15:45:35

TX CH09



Date: 3.OCT.2016 11:20:35

ATTACHMENT G – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode: TX B Mode_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	14.61	0.0289	30.00	1.00	Complies
2437	14.59	0.0288	30.00	1.00	Complies
2462	14.08	0.0256	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.83	0.0482	30.00	1.00	Complies
2437	22.73	0.1875	30.00	1.00	Complies
2462	18.83	0.0764	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.23	0.0420	30.00	1.00	Complies
2437	22.61	0.1824	30.00	1.00	Complies
2462	18.46	0.0701	30.00	1.00	Complies

Test Mode: TX G Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.55	0.0902	30.00	1.00	Complies
2437	25.68	0.3699	30.00	1.00	Complies
2462	21.66	0.1465	30.00	1.00	Complies

Test Mode: TX N20 Mode_CH01/06/11_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.05	0.0638	30.00	1.00	Complies
2437	22.49	0.1774	30.00	1.00	Complies
2462	16.71	0.0469	30.00	1.00	Complies

Test Mode: TX N20 Mode_CH01/06/11_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.93	0.0493	30.00	1.00	Complies
2437	22.21	0.1663	30.00	1.00	Complies
2462	15.87	0.0386	30.00	1.00	Complies

Test Mode: TX N20 Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.54	0.1131	30.00	1.00	Complies
2437	25.36	0.3438	30.00	1.00	Complies
2462	19.32	0.0855	30.00	1.00	Complies

Test Mode: TX N40 Mode_CH03/06/09_ANT 1

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	19.66	0.0925	30.00	1.00	Complies
2437	22.65	0.1841	30.00	1.00	Complies
2452	18.49	0.0706	30.00	1.00	Complies

Test Mode: TX N40 Mode_CH03/06/09_ANT 2

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	19.55	0.0902	30.00	1.00	Complies
2437	22.56	0.1803	30.00	1.00	Complies
2452	18.33	0.0681	30.00	1.00	Complies

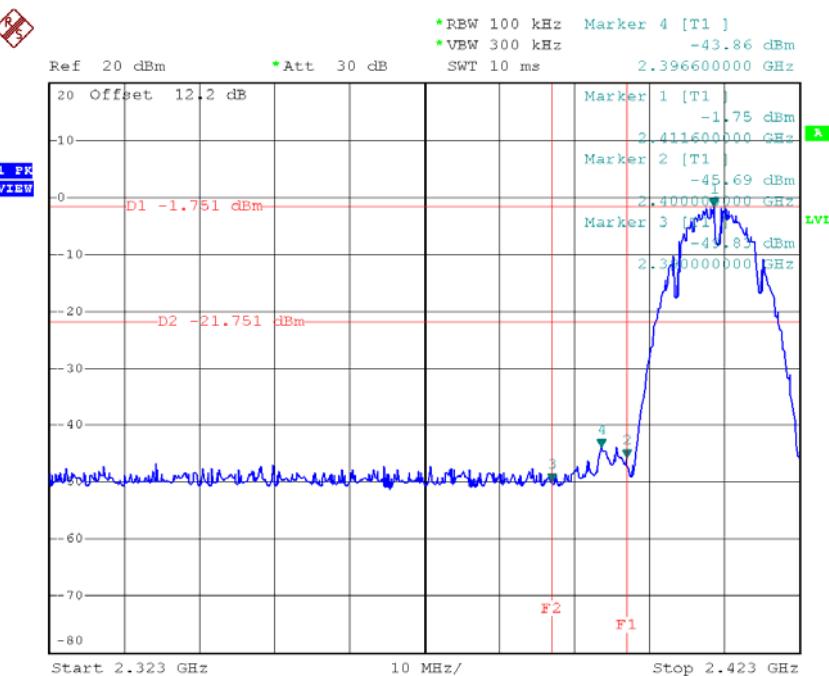
Test Mode: TX N40 Mode_CH03/06/09_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	22.62	0.1826	30.00	1.00	Complies
2437	25.62	0.3644	30.00	1.00	Complies
2452	21.42	0.1387	30.00	1.00	Complies

ATTACHMENT H - ANTENNA CONDUCTED SPURIOUS EMISSION

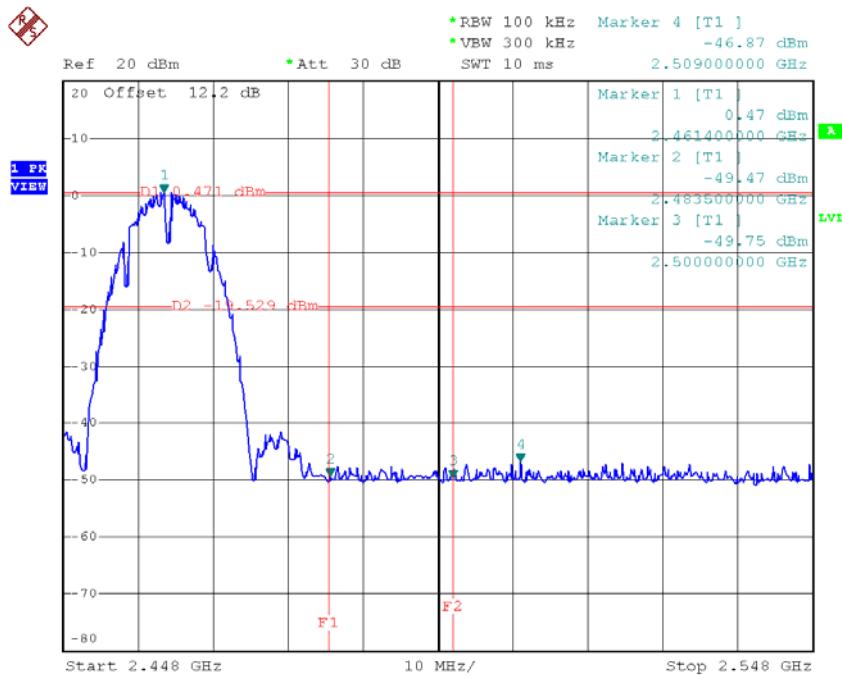
Test Mode: TX B Mode

TX B mode CH01



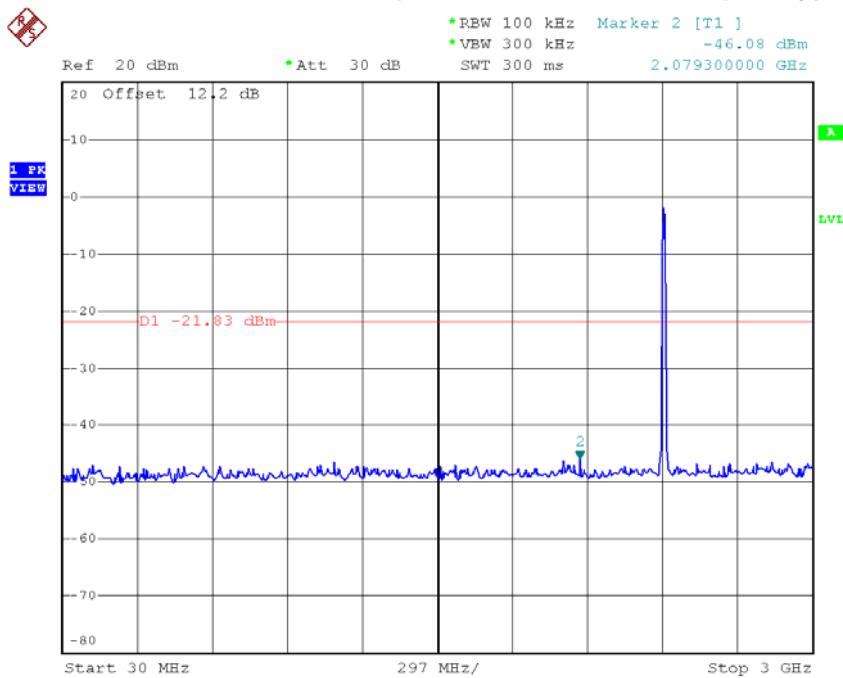
Date: 3.OCT.2016 09:57:06

TX B mode CH11

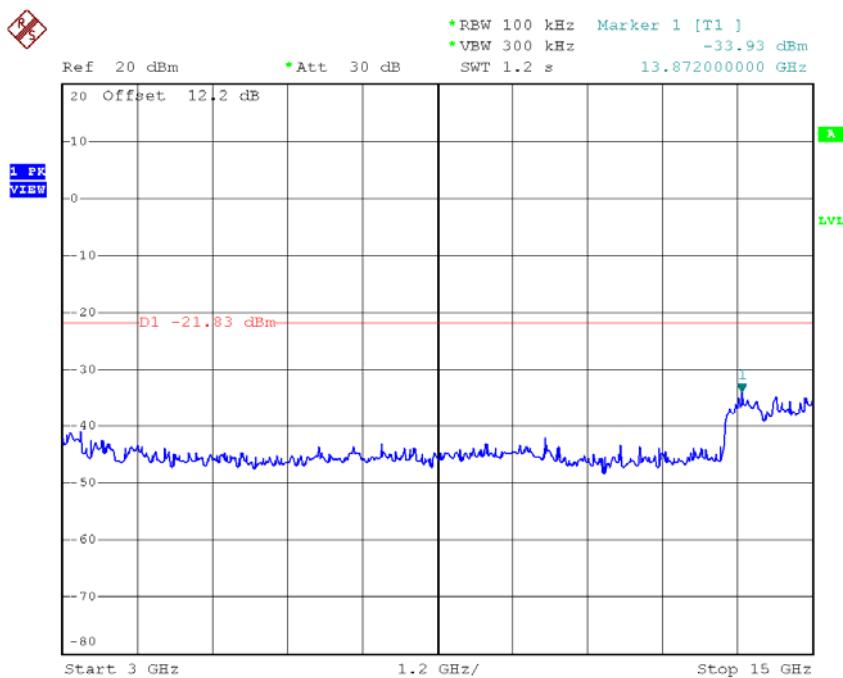


Date: 3.OCT.2016 10:14:19

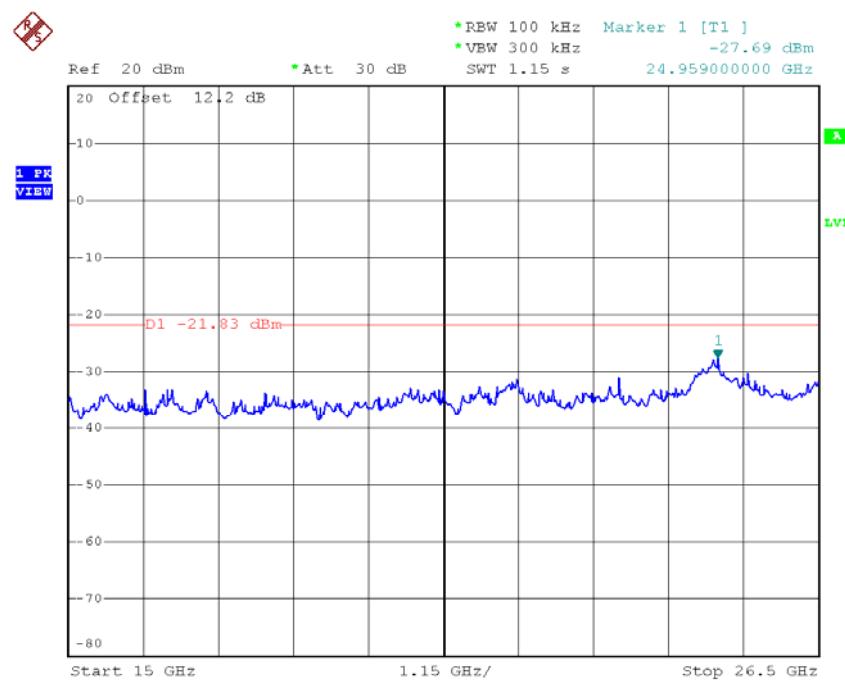
TX B mode CH01 (10 Harmonic of the frequency)



Date: 3.OCT.2016 09:56:28

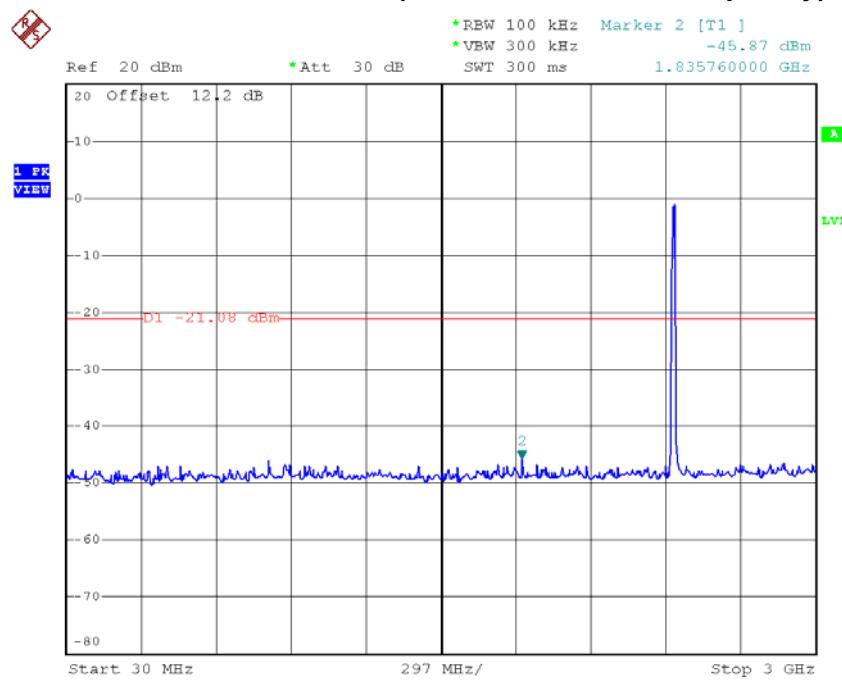


Date: 3.OCT.2016 09:56:35

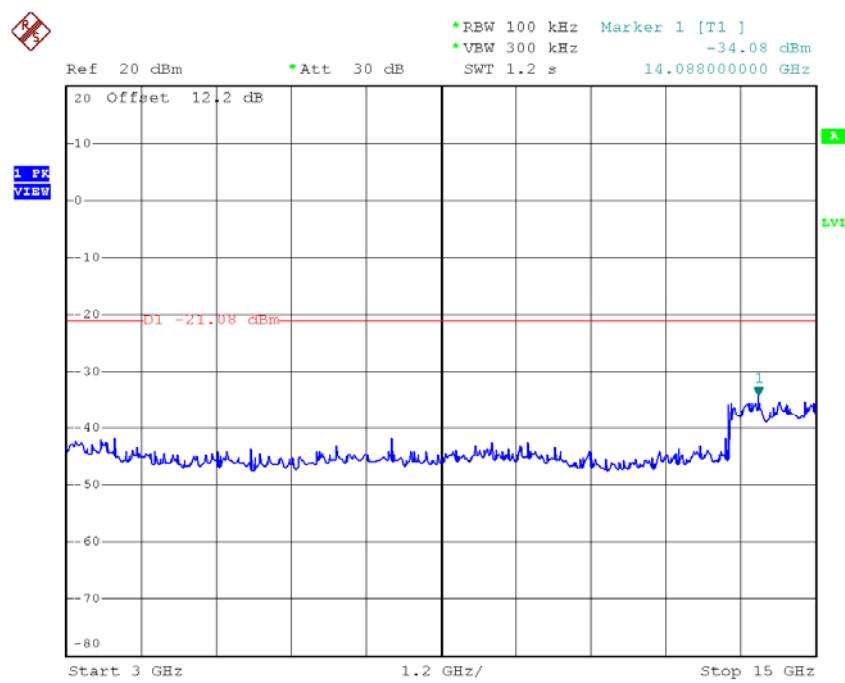


Date: 3.OCT.2016 09:56:42

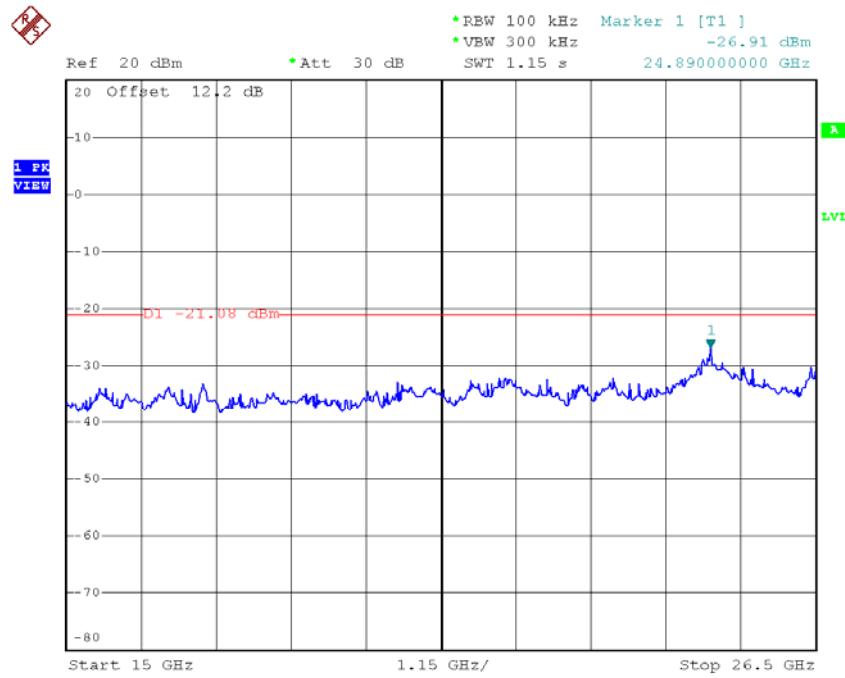
TX B mode CH06 (10 Harmonic of the frequency)



Date: 3.OCT.2016 10:11:47

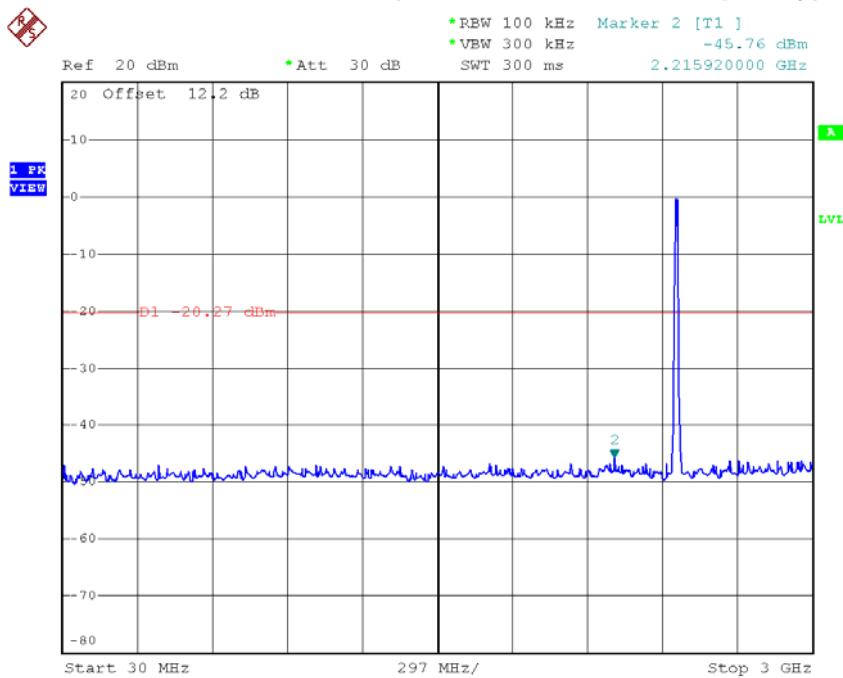


Date: 3.OCT.2016 10:11:54

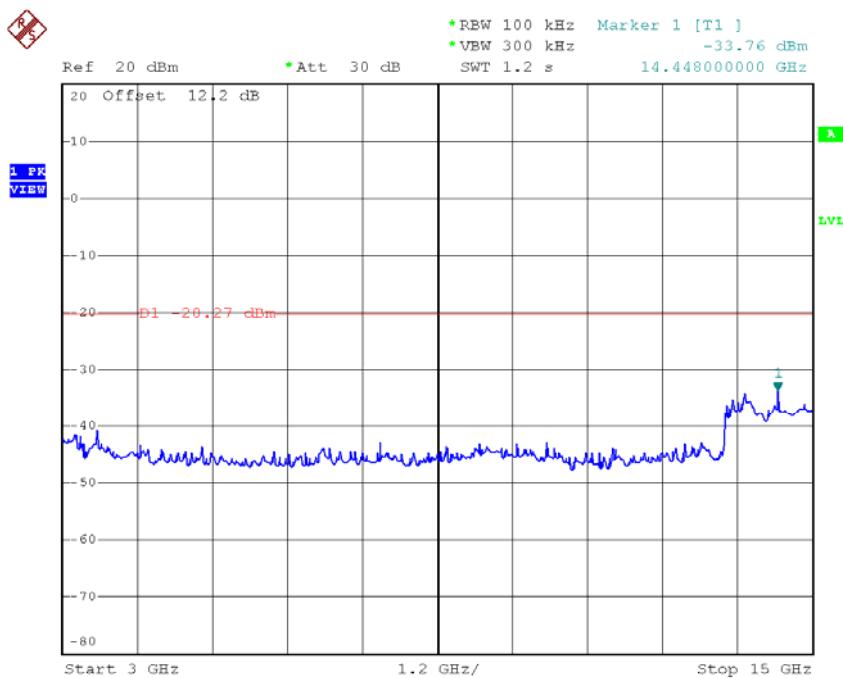


Date: 3.OCT.2016 10:12:01

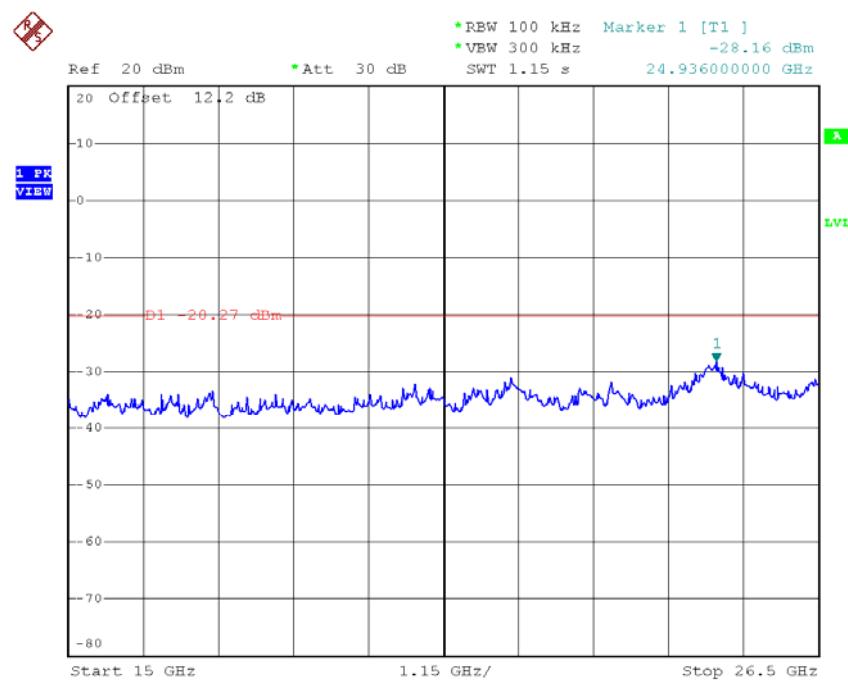
TX B mode CH11 (10 Harmonic of the frequency)



Date: 3.OCT.2016 10:13:43



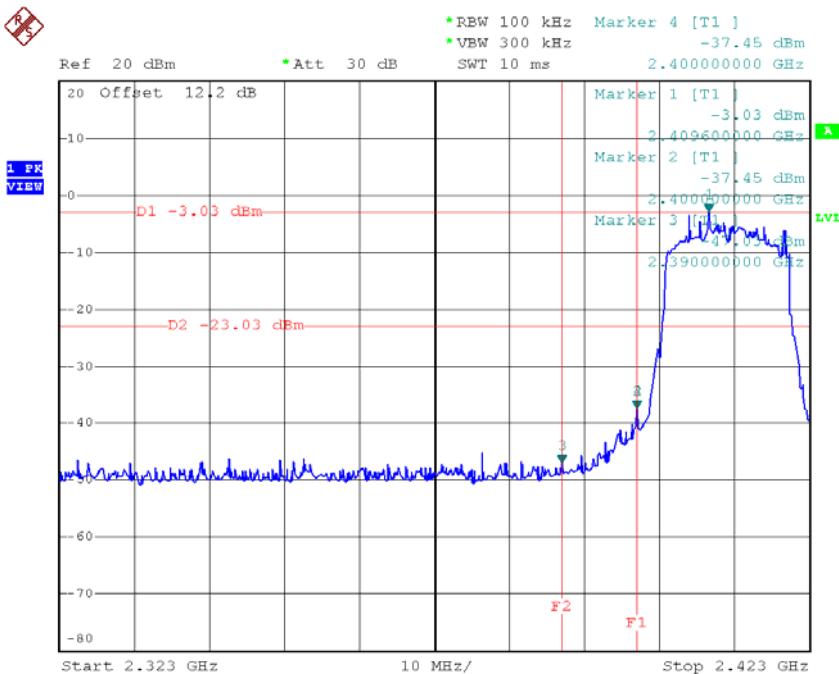
Date: 3.OCT.2016 10:13:49



Date: 3.OCT.2016 10:13:55

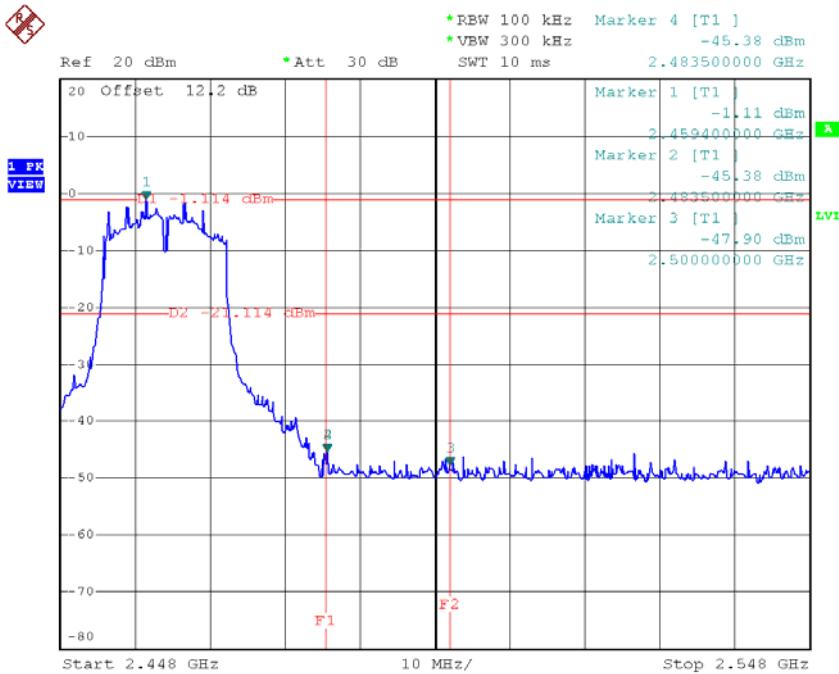
Test Mode: TX G Mode_ANT 1

TX G mode CH01



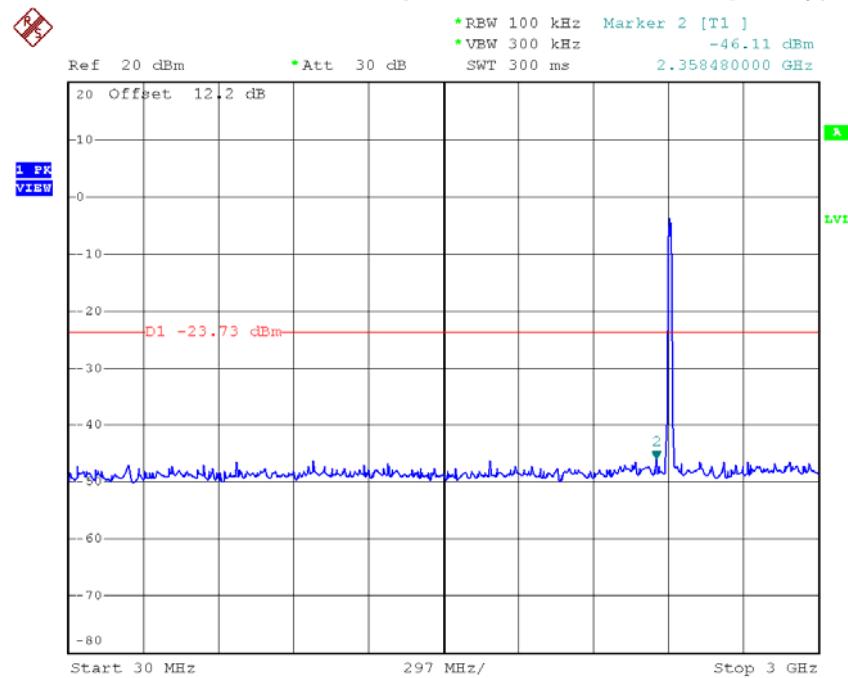
Date: 3.OCT.2016 10:39:56

TX G mode CH11

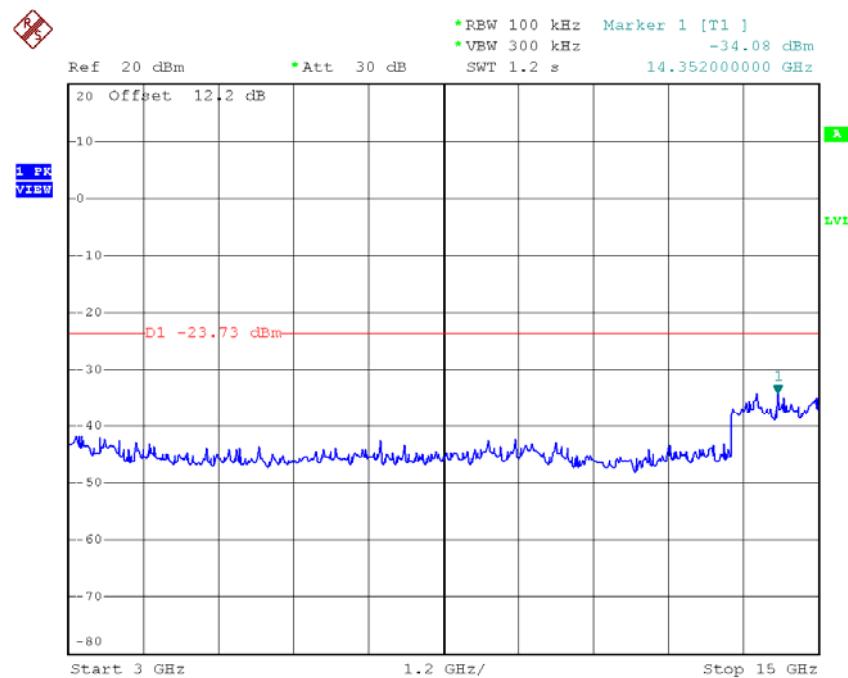


Date: 3.OCT.2016 10:43:58

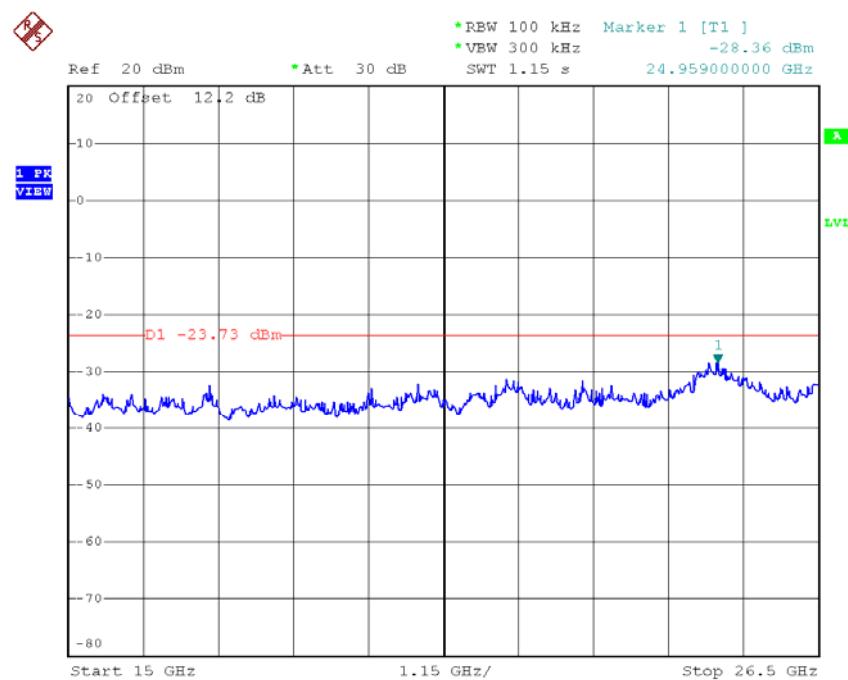
TX G mode CH01 (10 Harmonic of the frequency)



Date: 3.OCT.2016 10:39:18

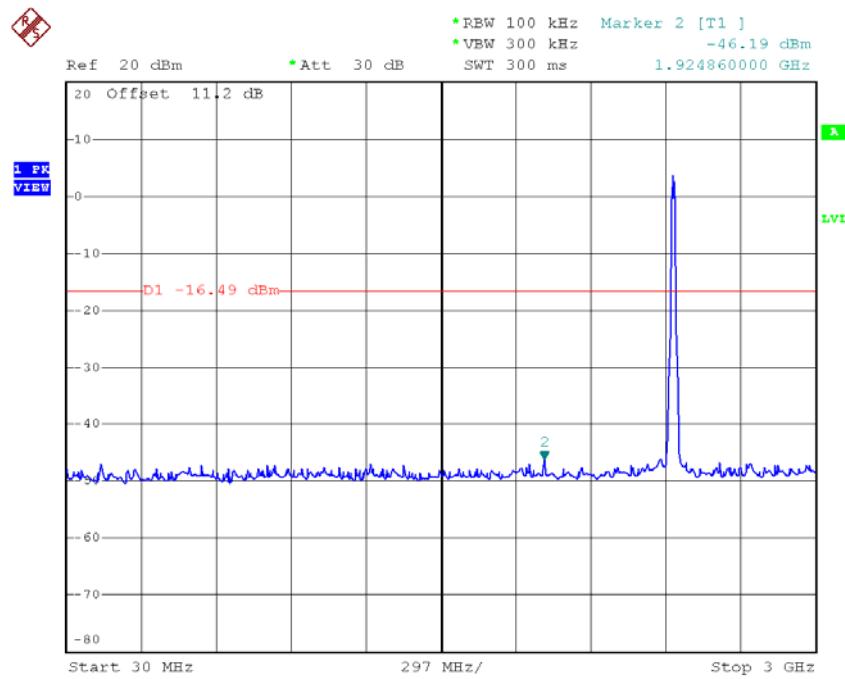


Date: 3.OCT.2016 10:39:25

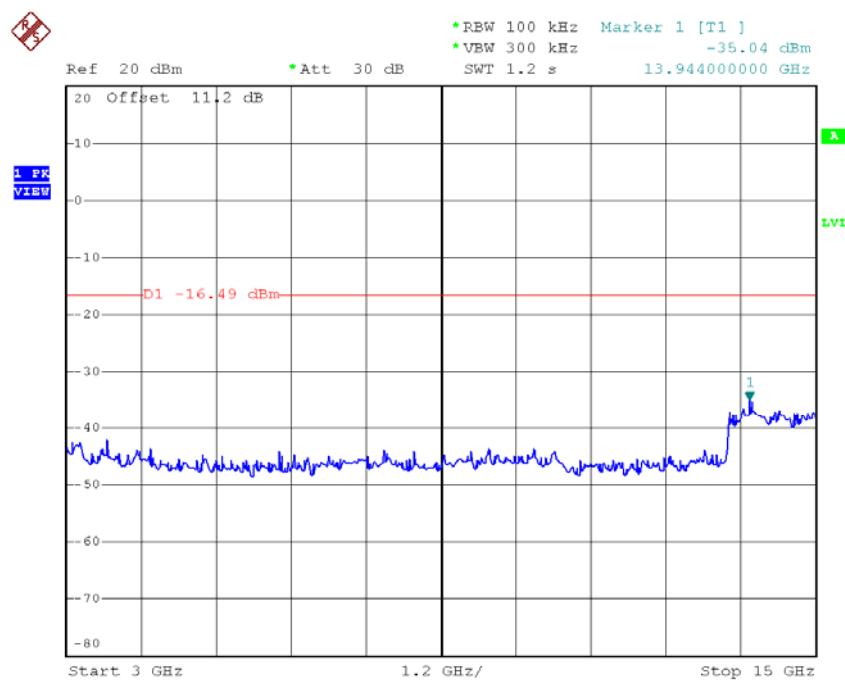


Date: 3.OCT.2016 10:39:32

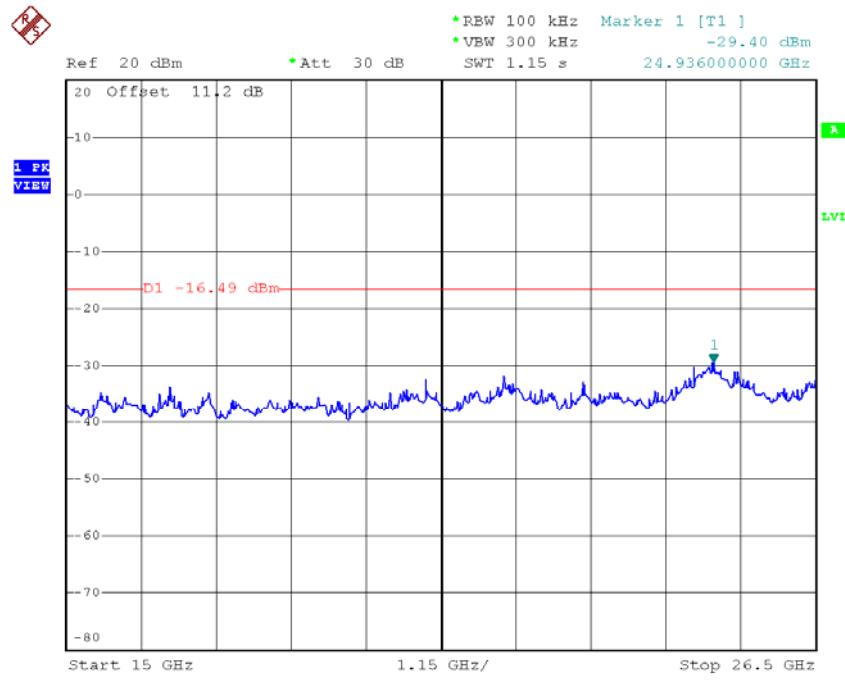
TX G mode CH06 (10 Harmonic of the frequency)



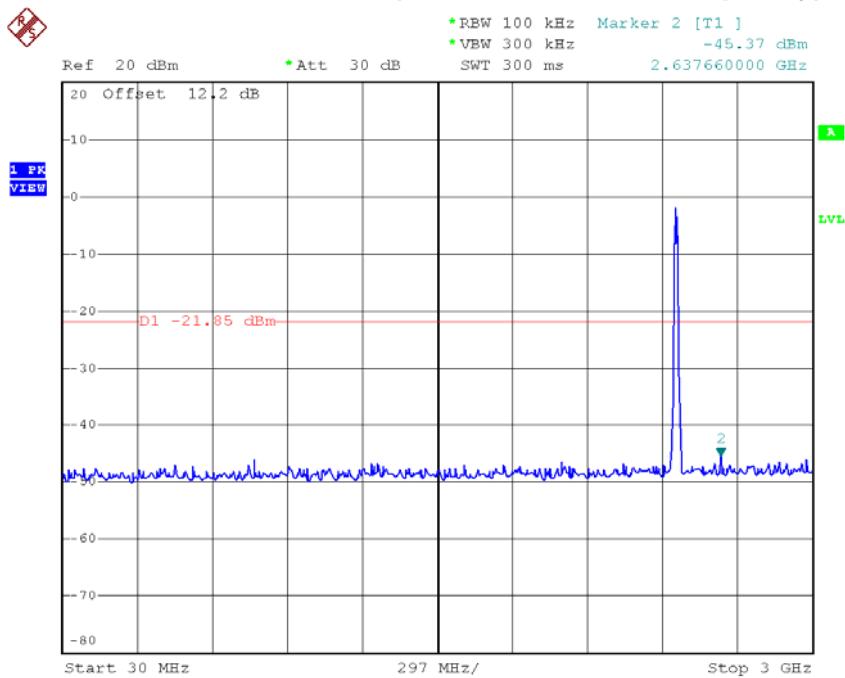
Date: 30.JUL.2016 15:22:28



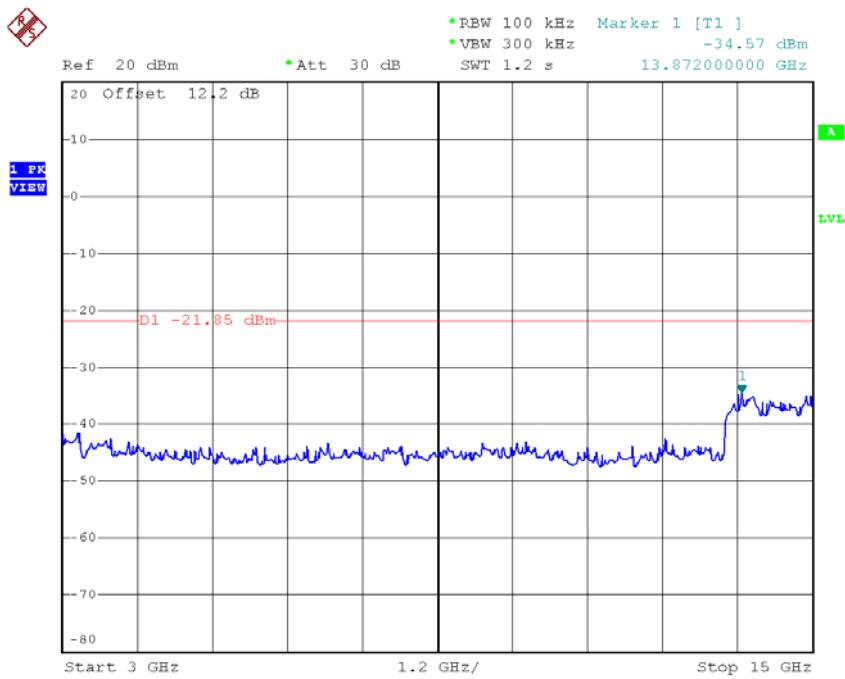
Date: 30.JUL.2016 15:22:35



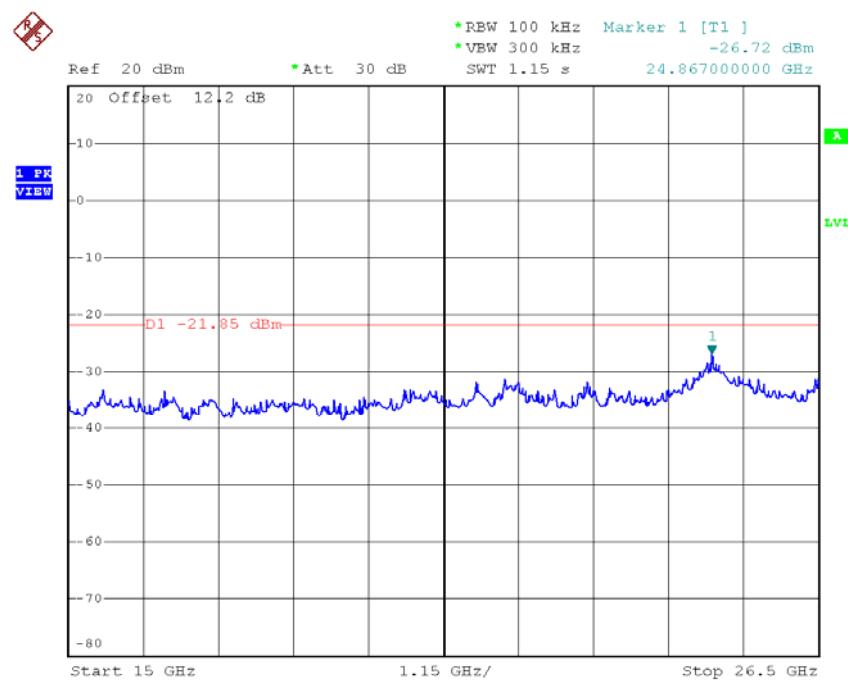
Date: 30.JUL.2016 15:22:42

TX G mode CH11 (10 Harmonic of the frequency)


Date: 3.OCT.2016 10:43:20



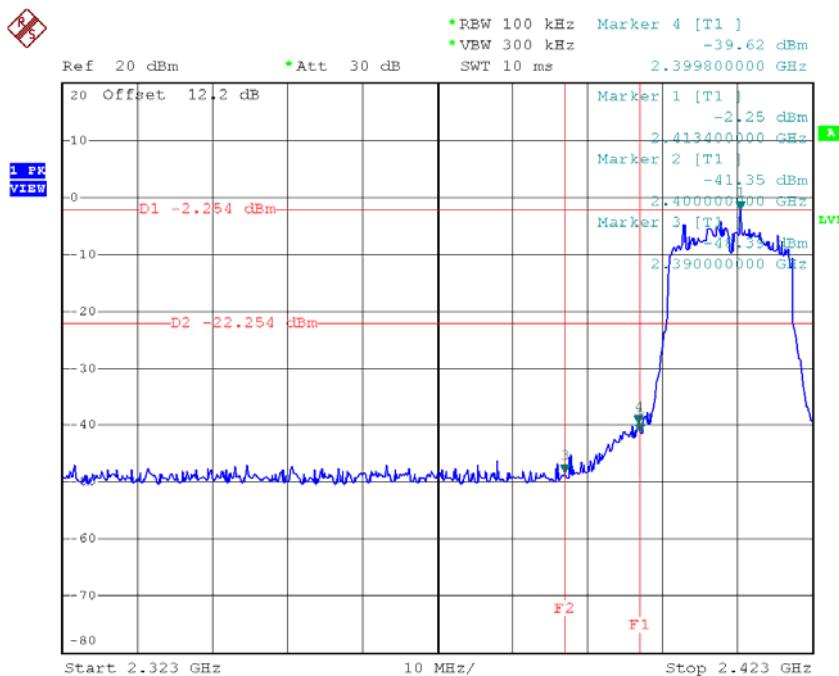
Date: 3.OCT.2016 10:43:27



Date: 3.OCT.2016 10:43:34

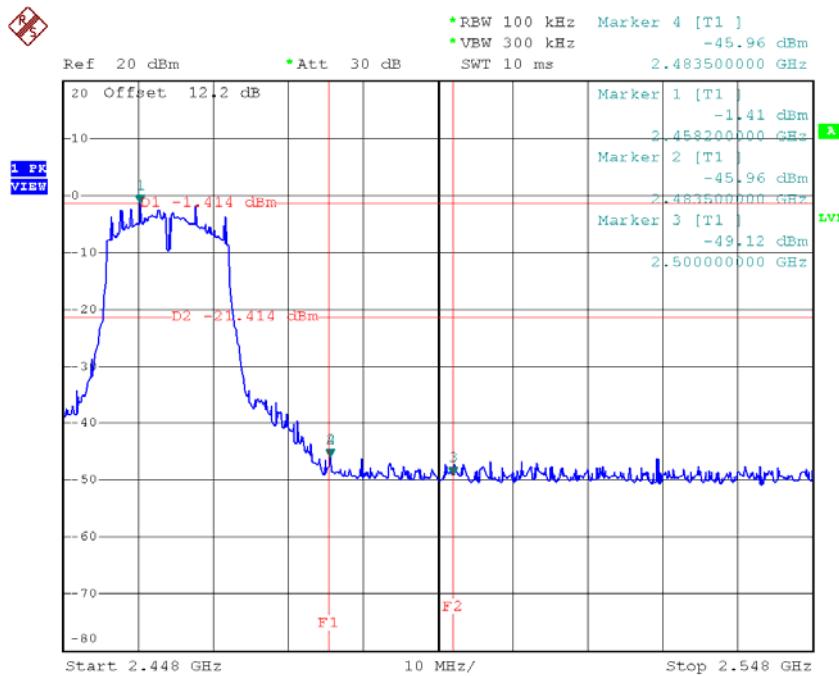
Test Mode: TX G Mode_ANT 2

TX G mode CH01



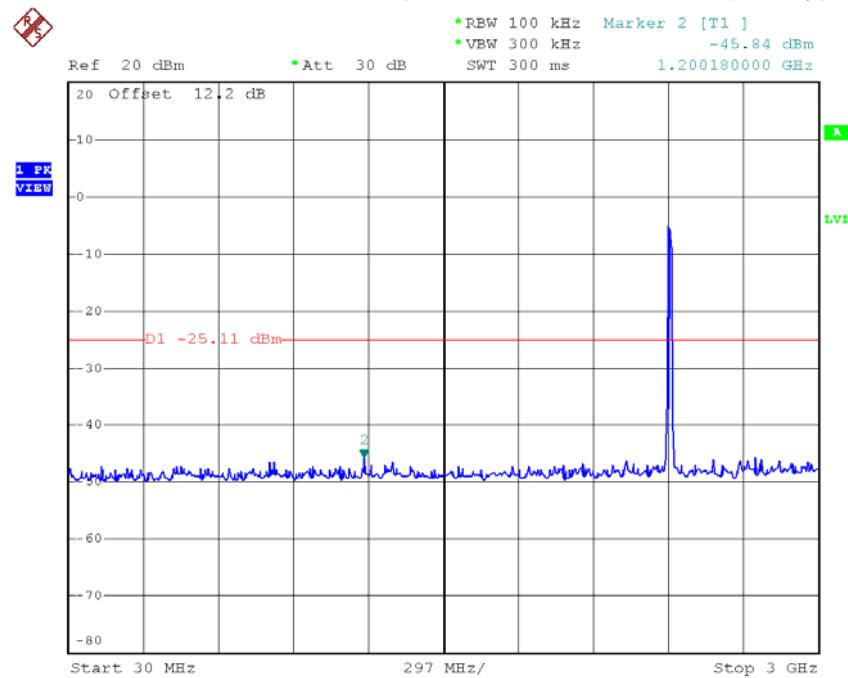
Date: 3.OCT.2016 10:41:09

TX G mode CH11

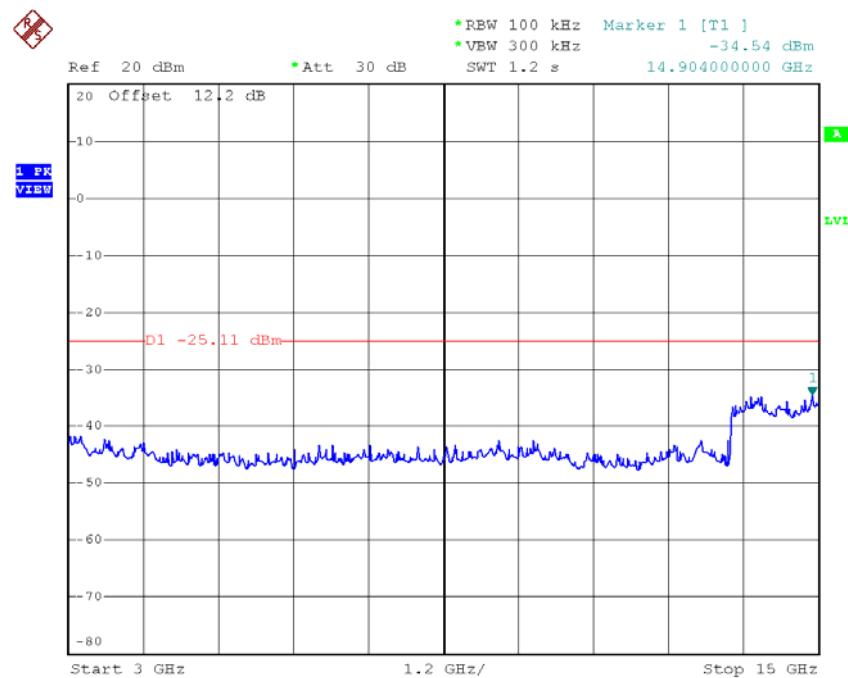


Date: 3.OCT.2016 10:45:28

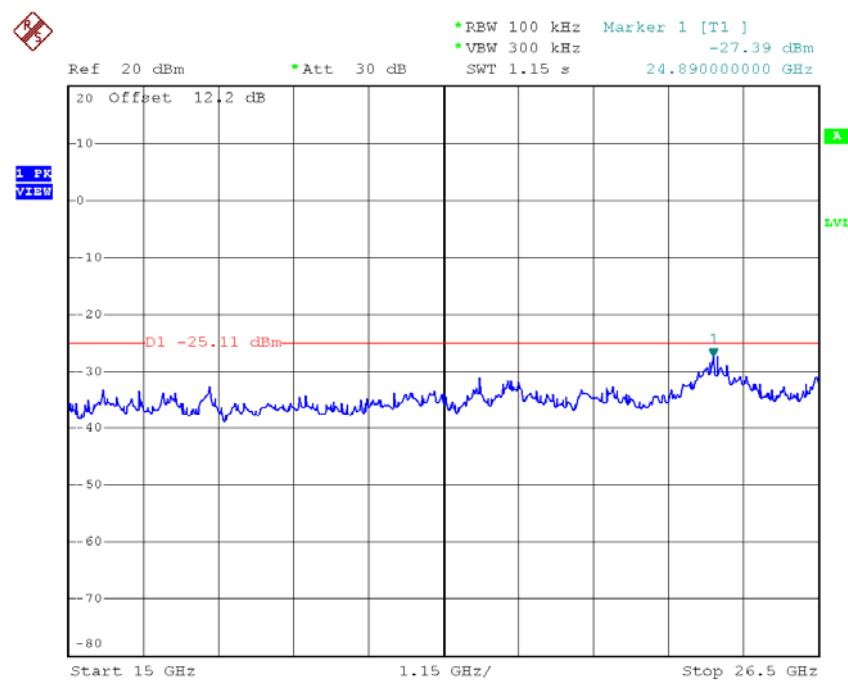
TX G mode CH01 (10 Harmonic of the frequency)



Date: 3.OCT.2016 10:40:48

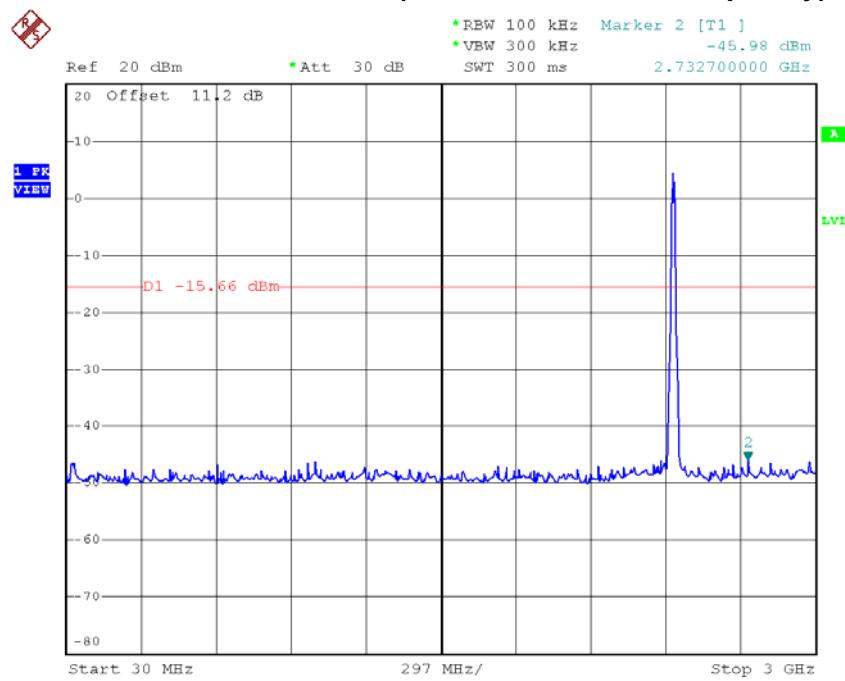


Date: 3.OCT.2016 10:40:55

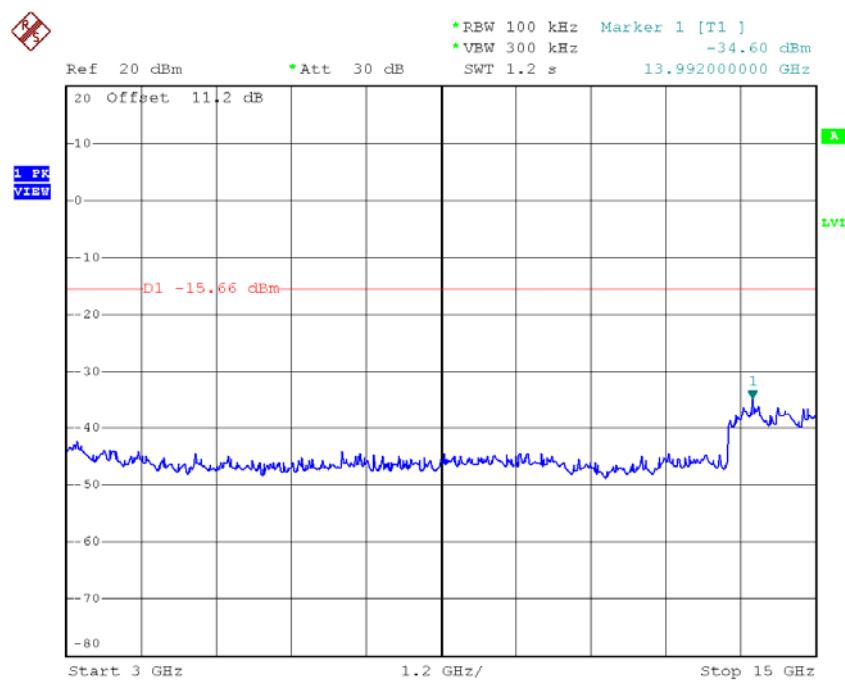


Date: 3.OCT.2016 10:41:02

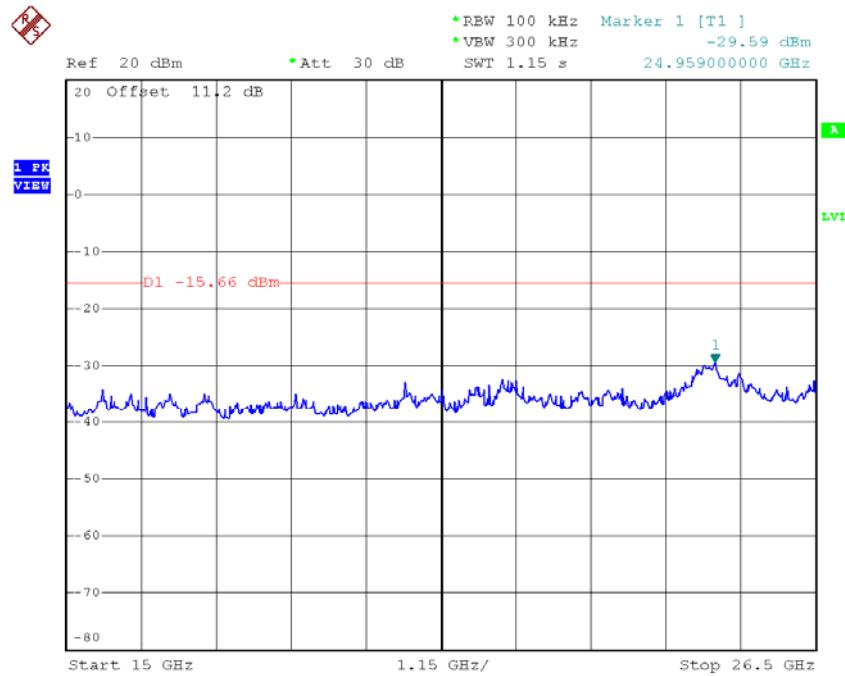
TX G mode CH06 (10 Harmonic of the frequency)



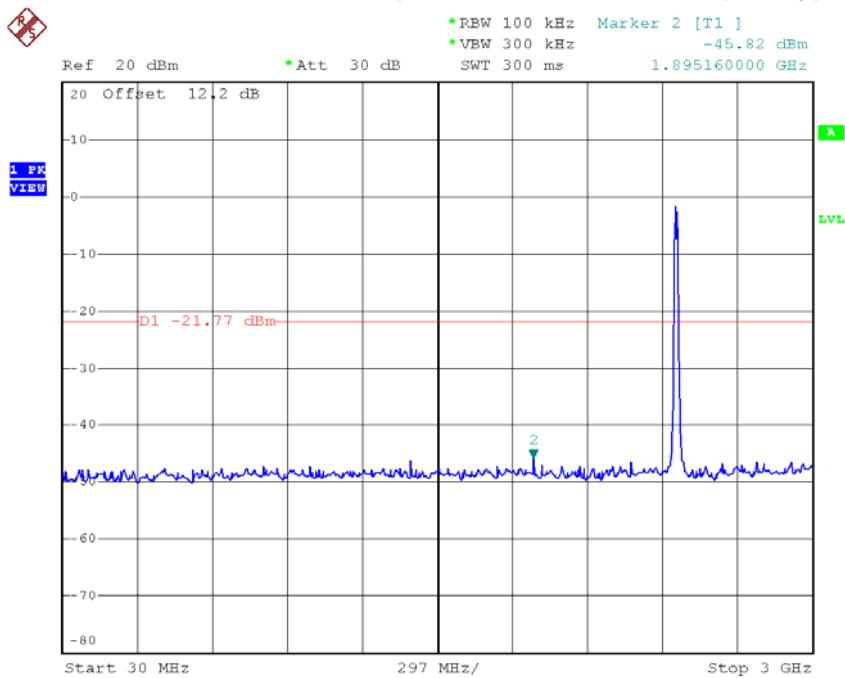
Date: 30.JUL.2016 16:36:50



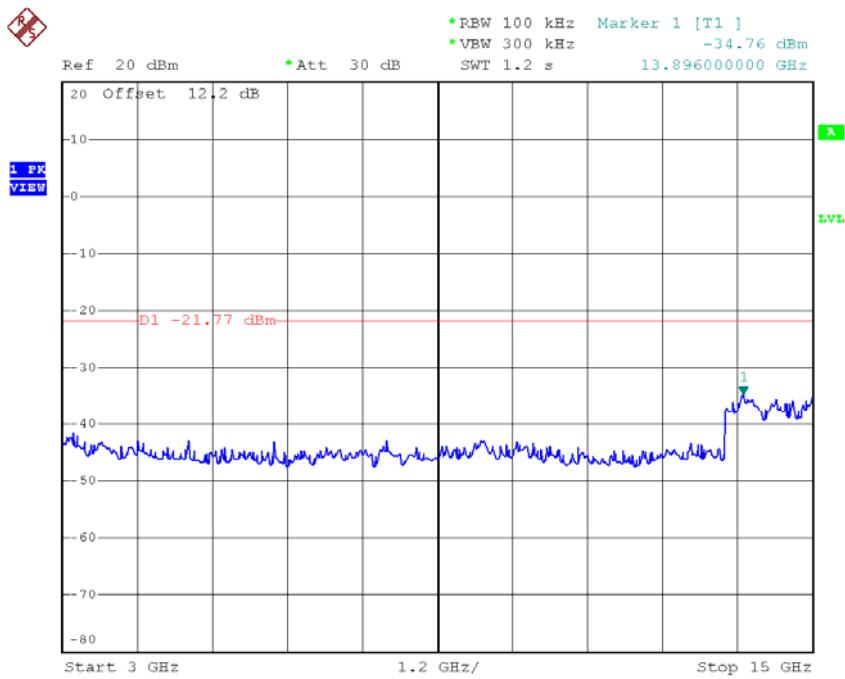
Date: 30.JUL.2016 16:36:57



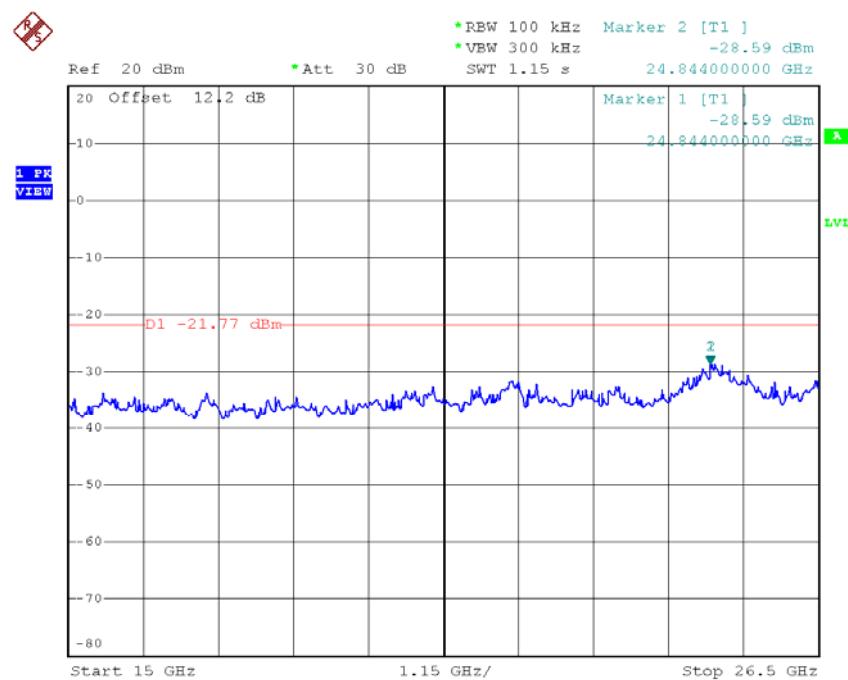
Date: 30.JUL.2016 16:37:04

TX G mode CH11 (10 Harmonic of the frequency)


Date: 3.OCT.2016 10:44:51



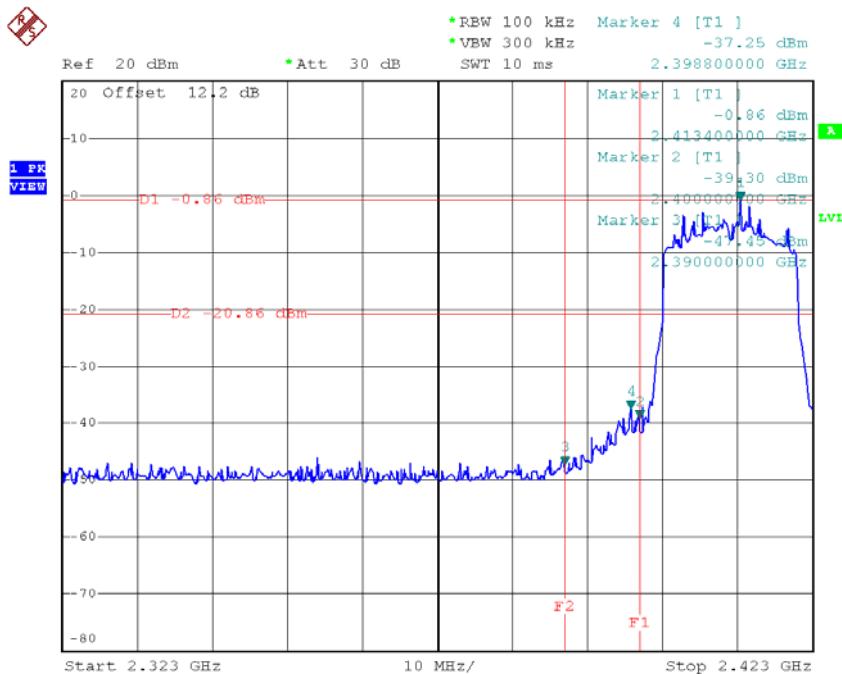
Date: 3.OCT.2016 10:44:58



Date: 3.OCT.2016 10:45:05

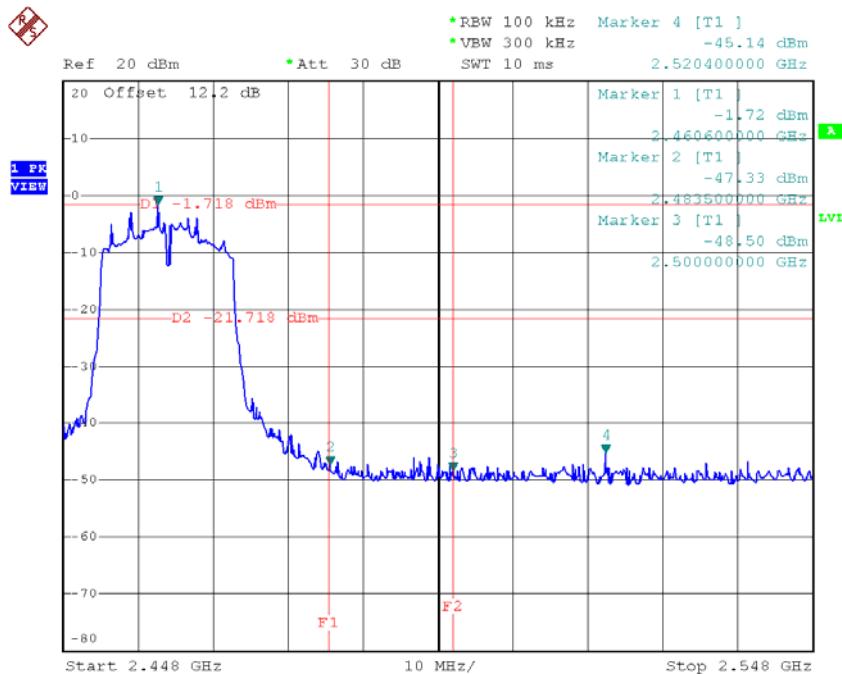
Test Mode: TX N-20M Mode_ANT 1

TX HT20 mode CH01



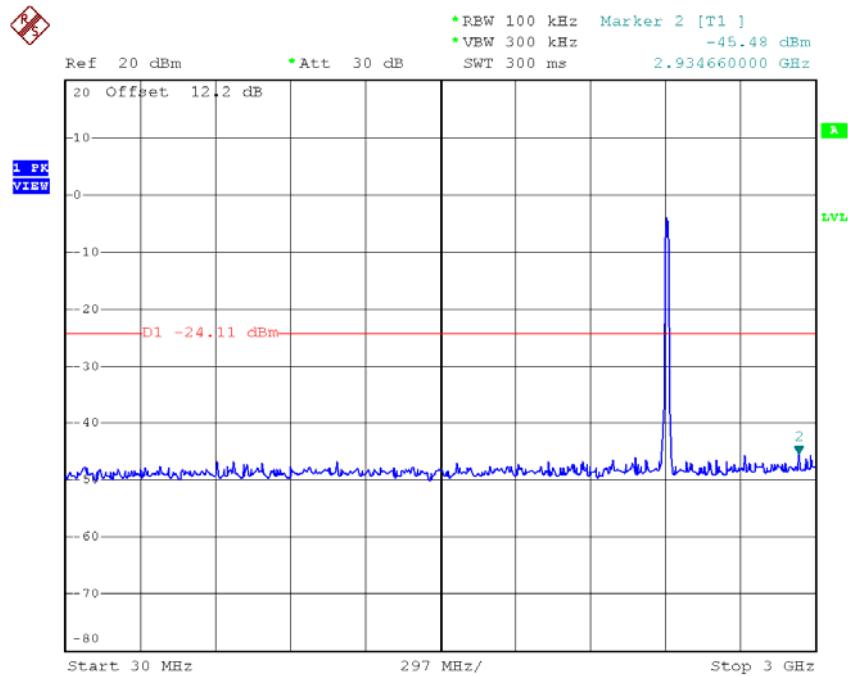
Date: 3.OCT.2016 10:57:12

TX HT20 mode CH11

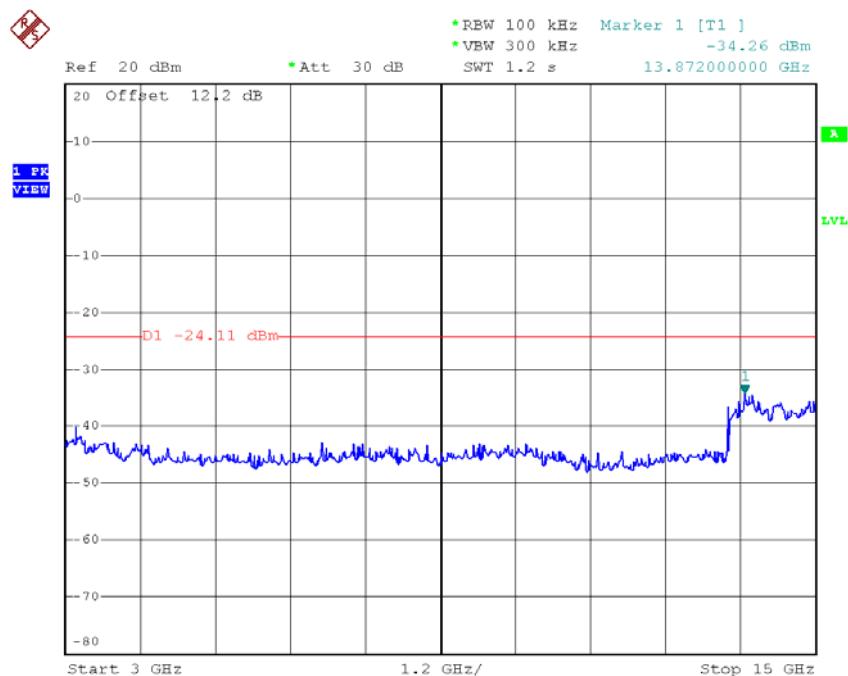


Date: 3.OCT.2016 11:00:28

TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 3.OCT.2016 10:56:52

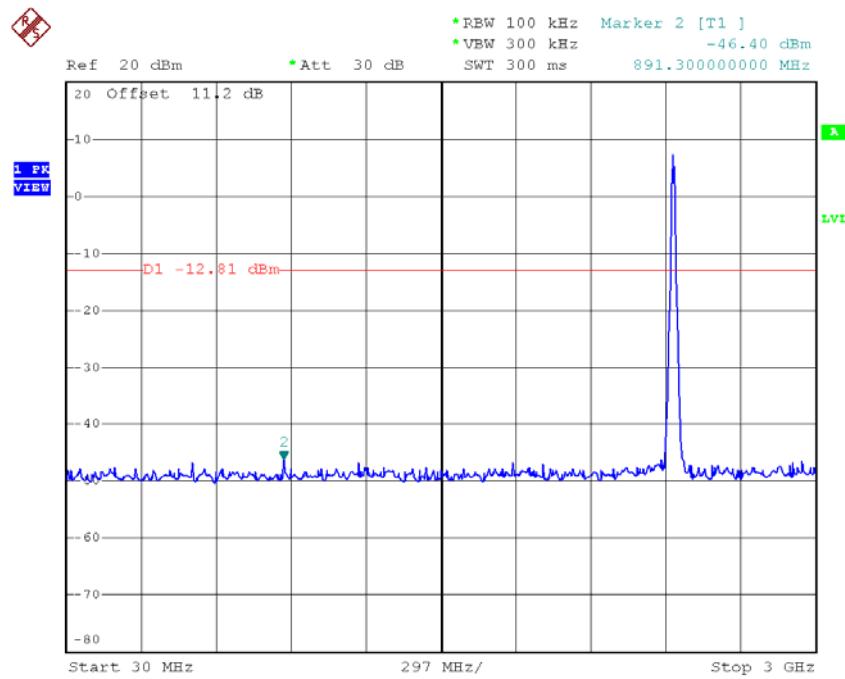


Date: 3.OCT.2016 10:56:58

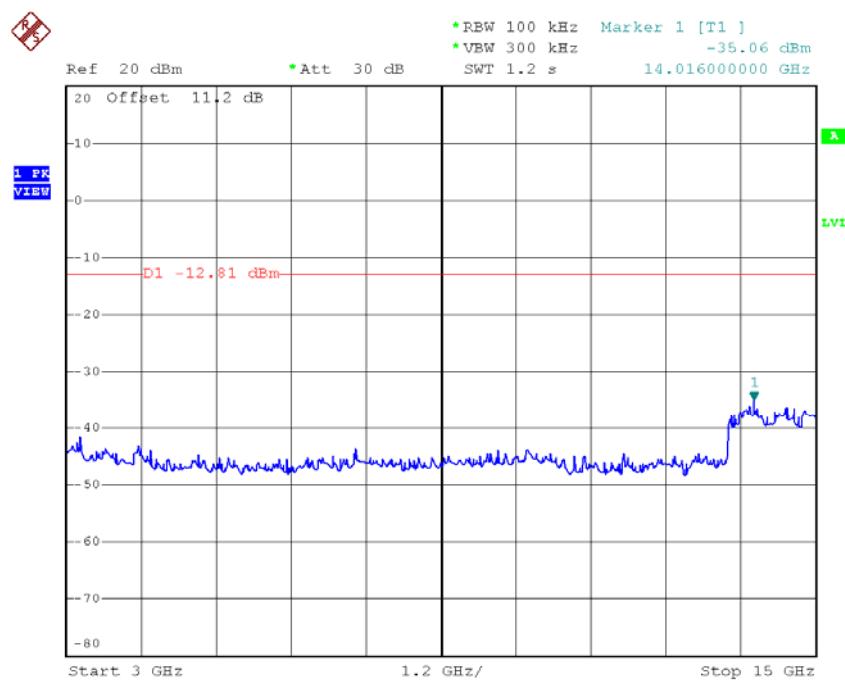


Date: 3.OCT.2016 10:57:05

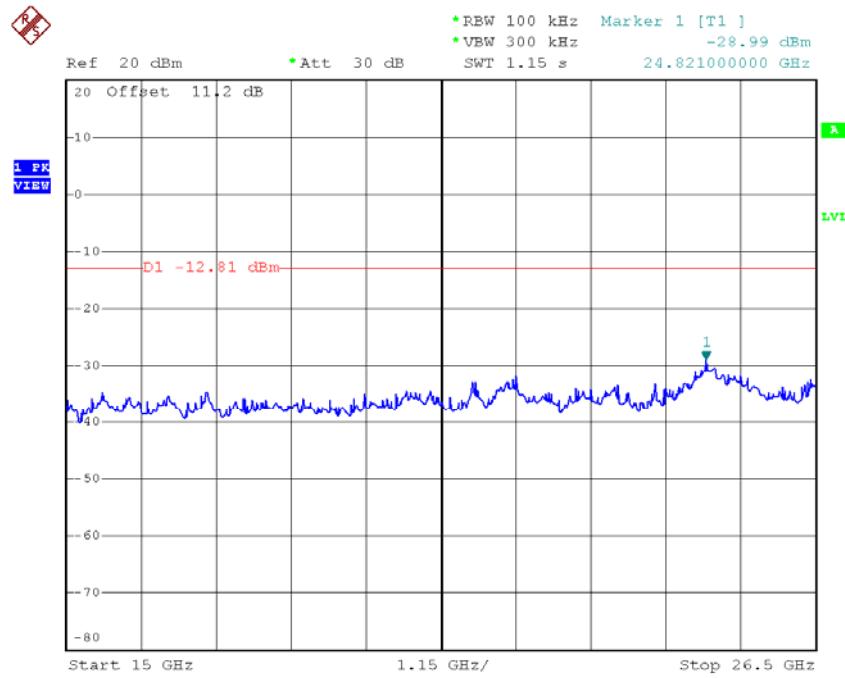
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 30.JUL.2016 15:36:58

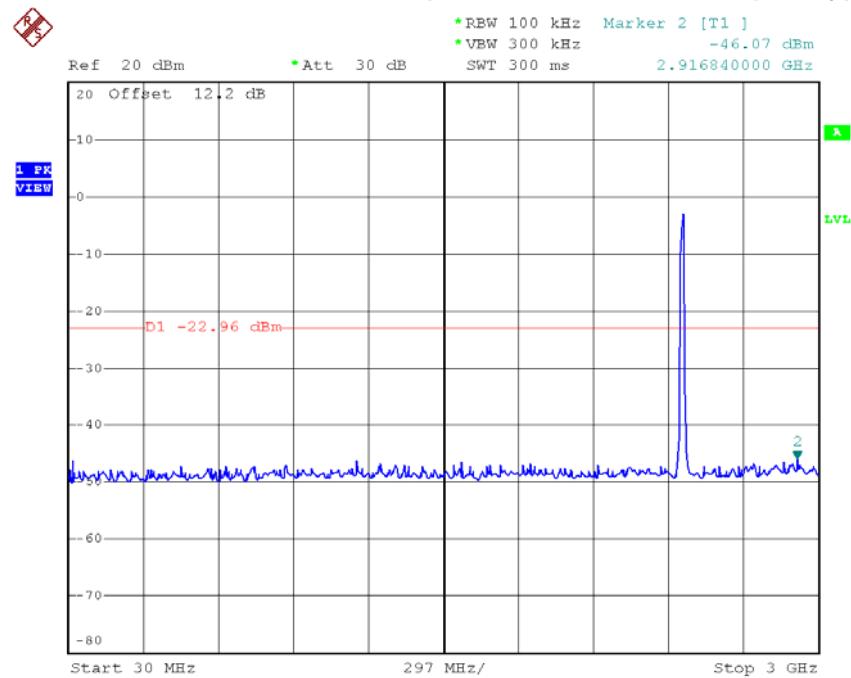


Date: 30.JUL.2016 15:37:05

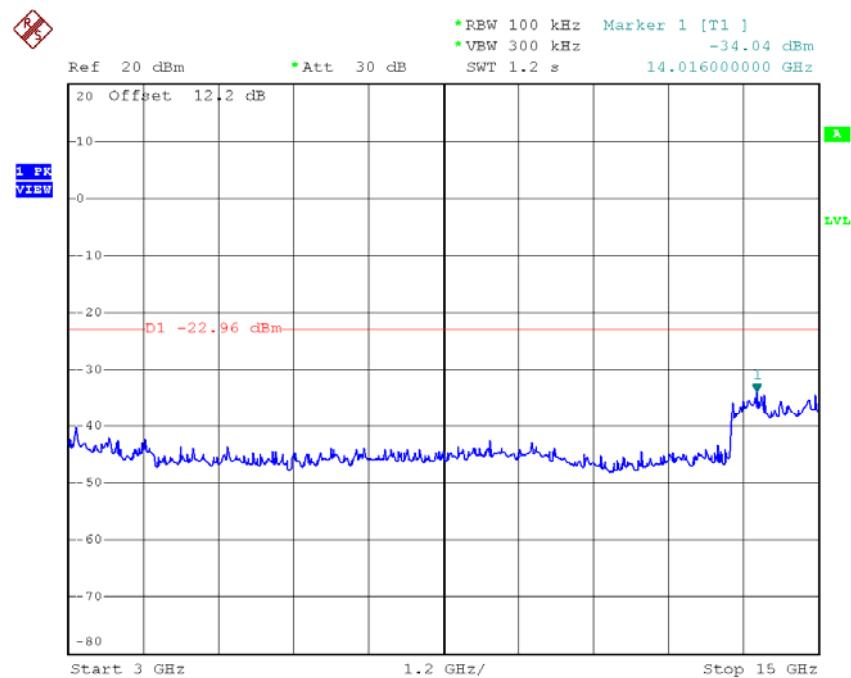


Date: 30.JUL.2016 15:37:20

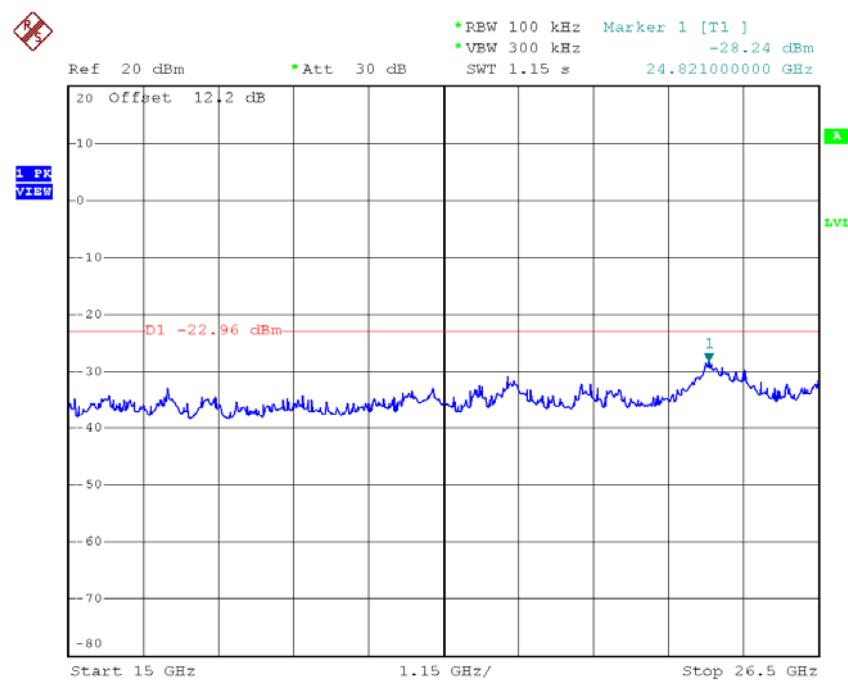
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 3.OCT.2016 10:59:52



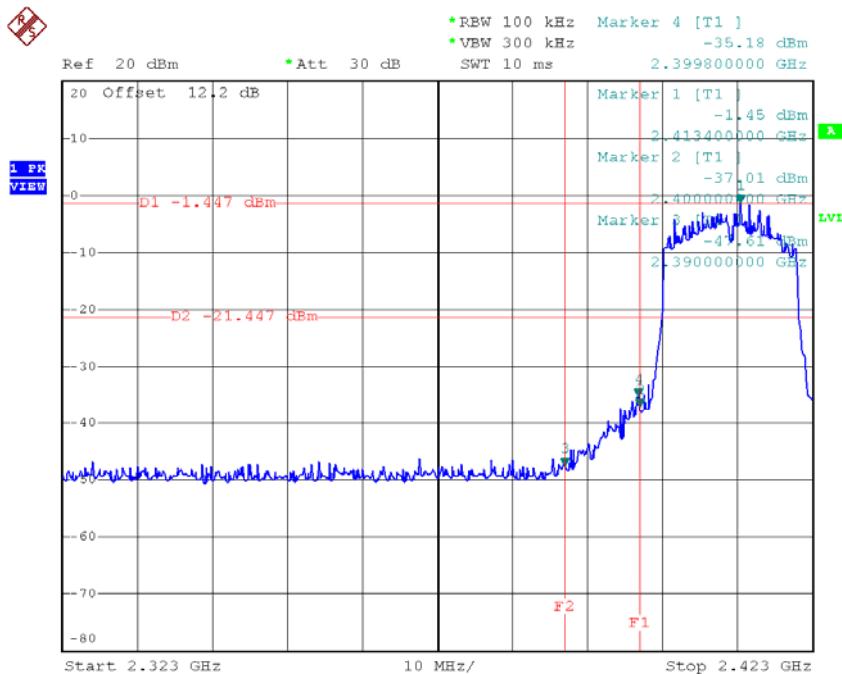
Date: 3.OCT.2016 10:59:58



Date: 3.OCT.2016 11:00:05

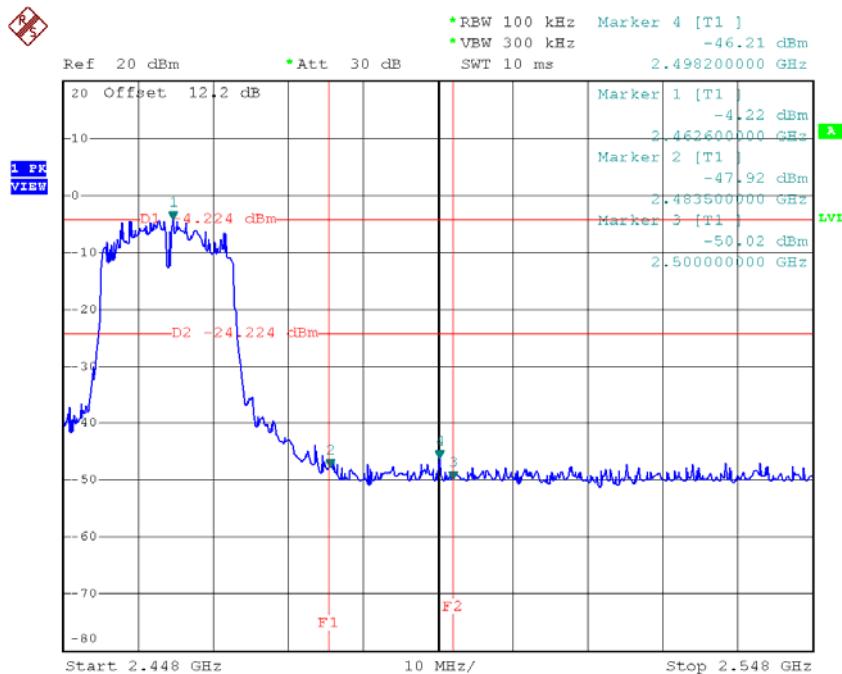
Test Mode: TX N-20M Mode_ANT 2

TX HT20 mode CH01



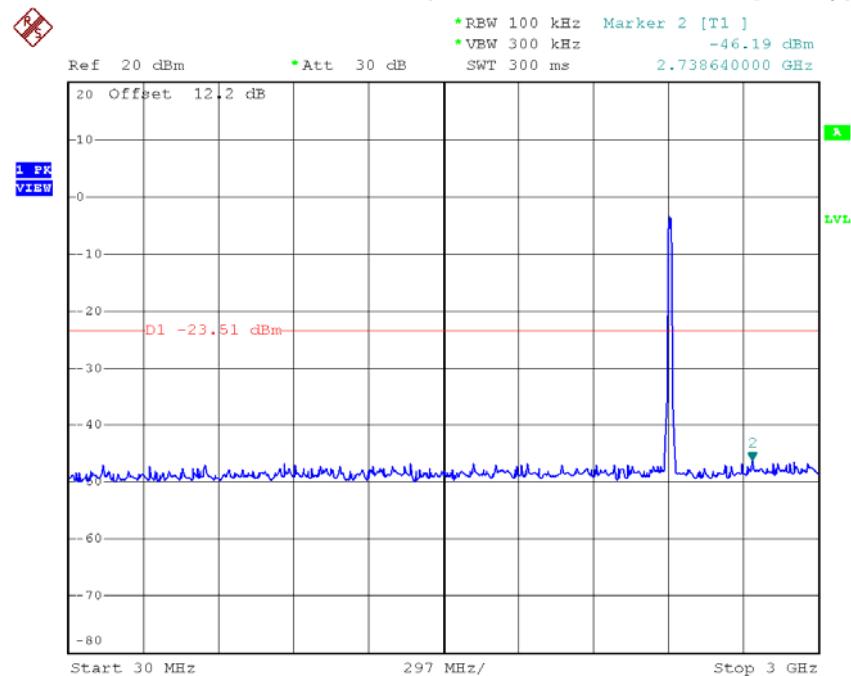
Date: 3.OCT.2016 10:58:37

TX HT20 mode CH11

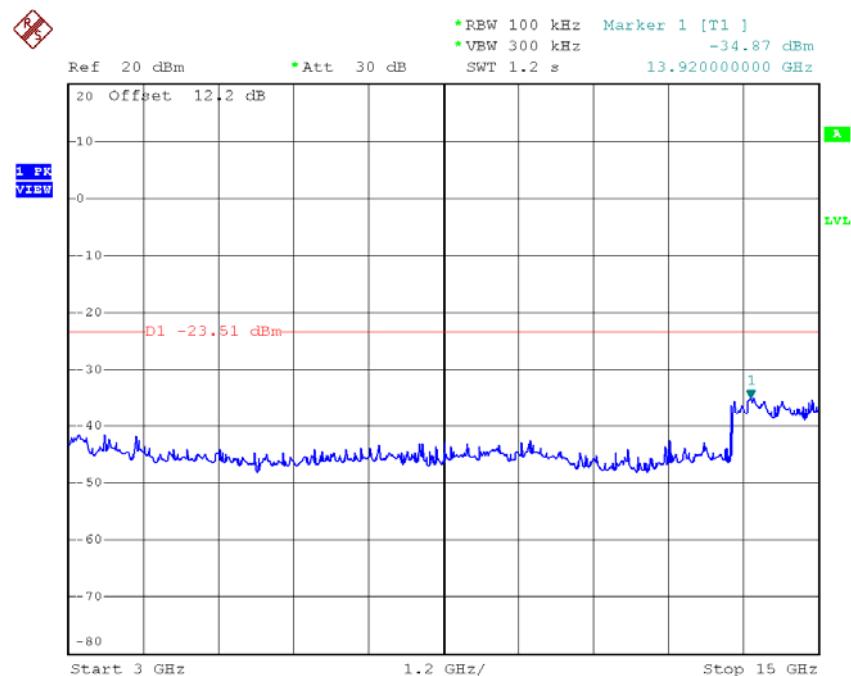


Date: 3.OCT.2016 11:02:03

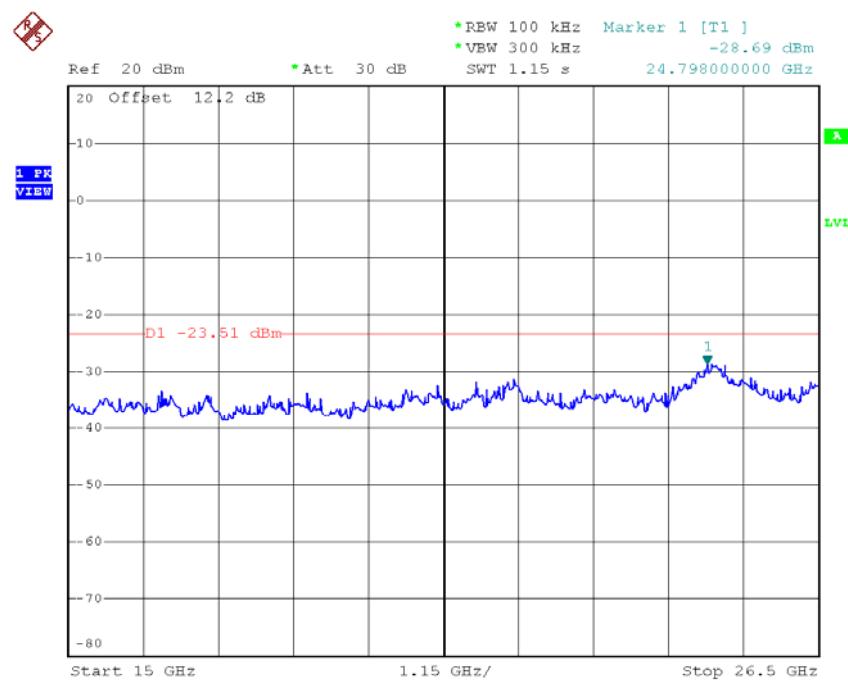
TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 3.OCT.2016 10:58:00

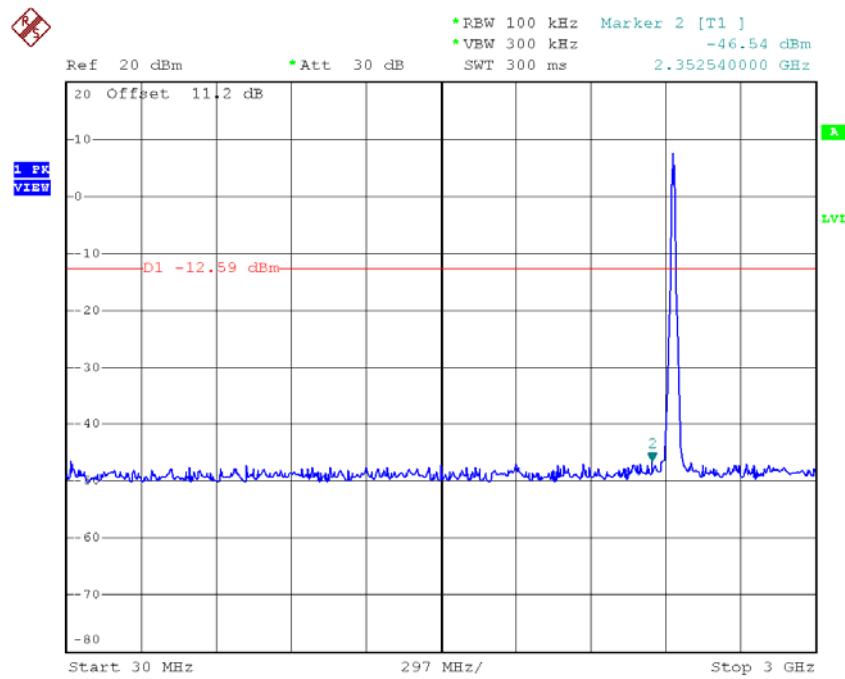


Date: 3.OCT.2016 10:58:07

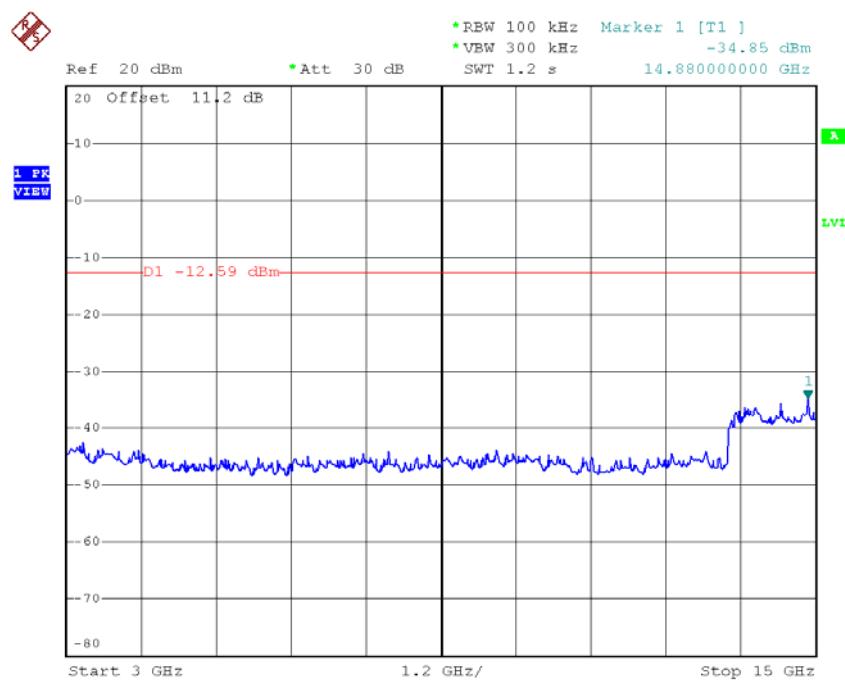


Date: 3.OCT.2016 10:58:13

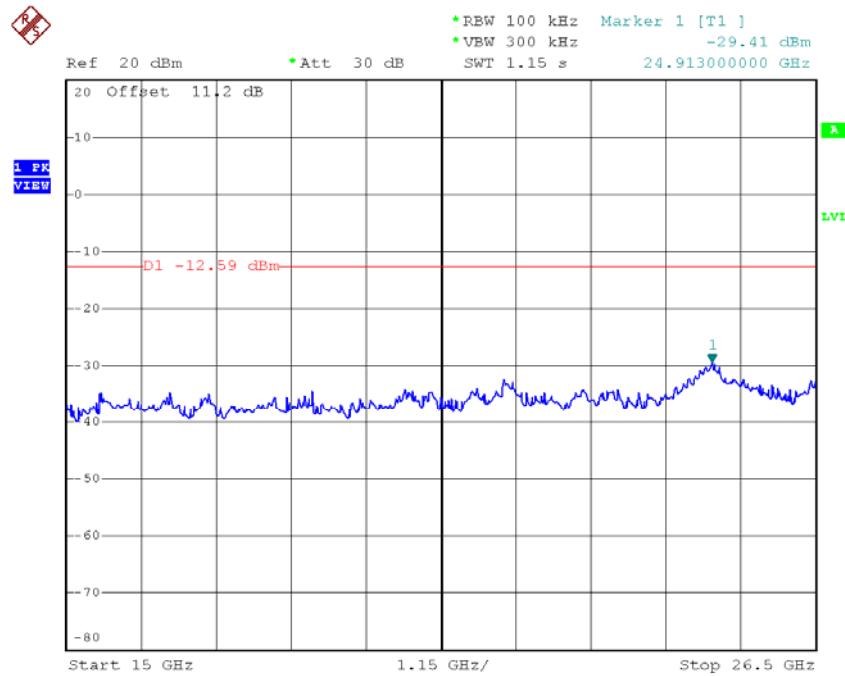
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 30.JUL.2016 16:30:53

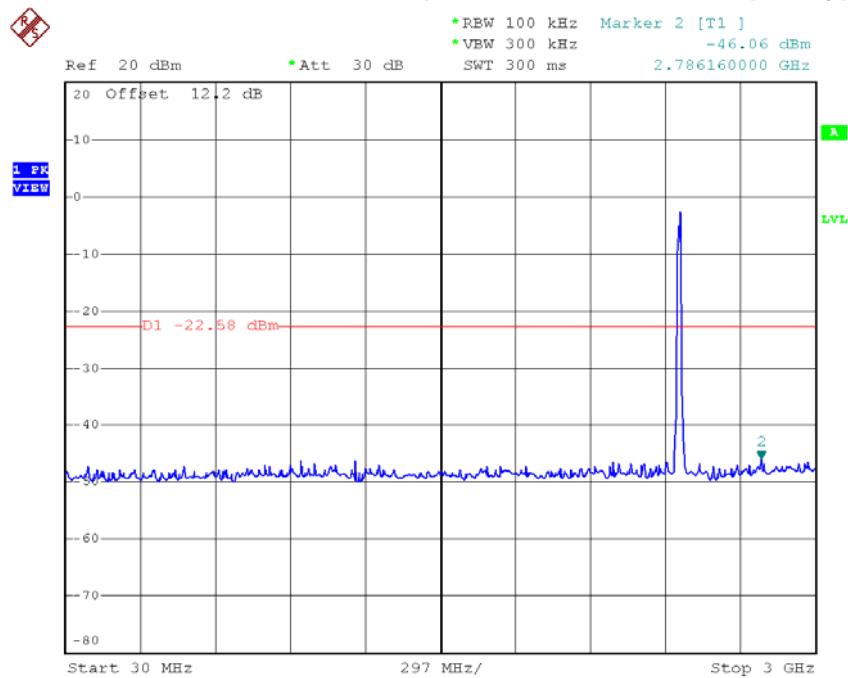


Date: 30.JUL.2016 16:31:00

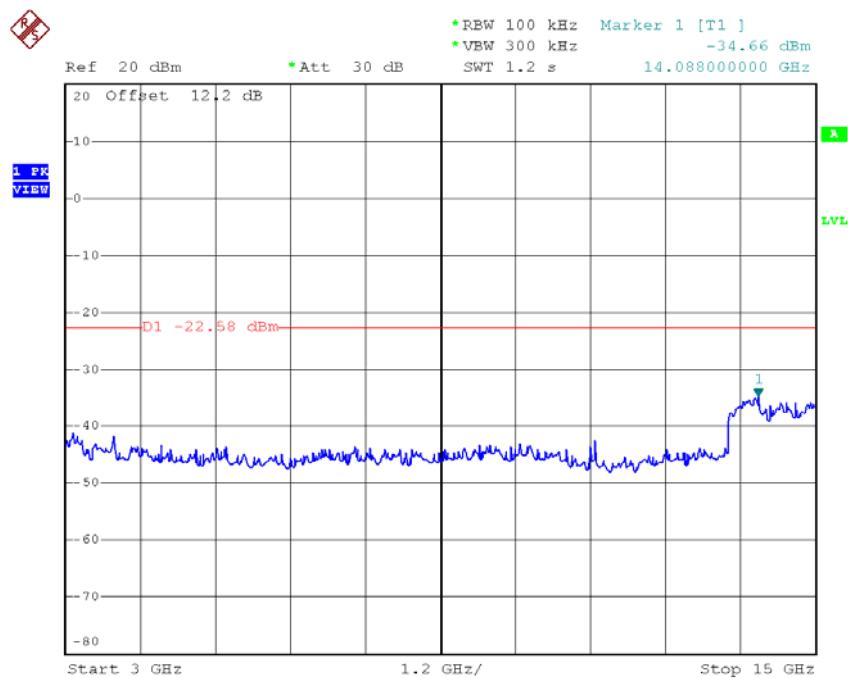


Date: 30.JUL.2016 16:31:07

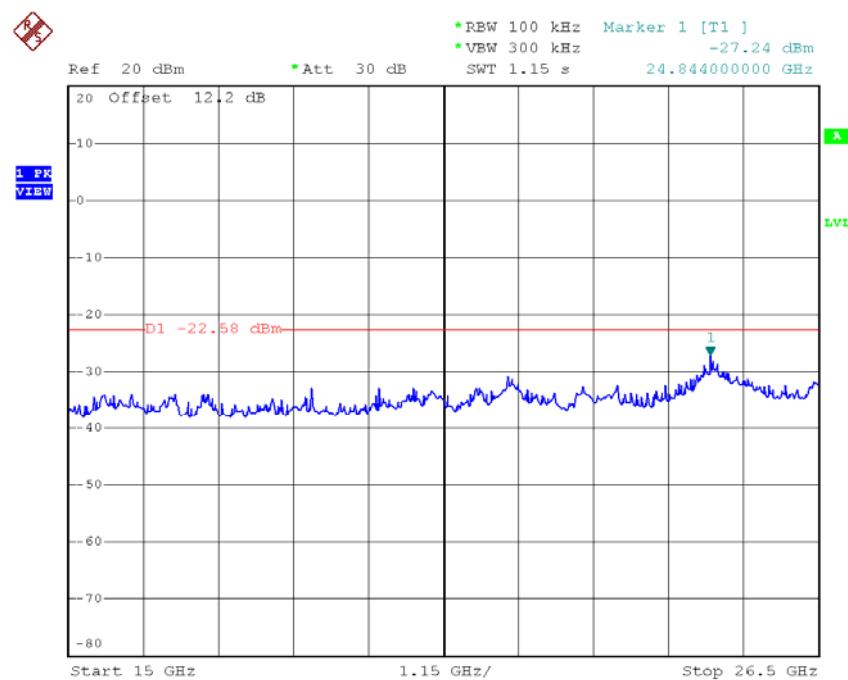
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 3.OCT.2016 11:01:27



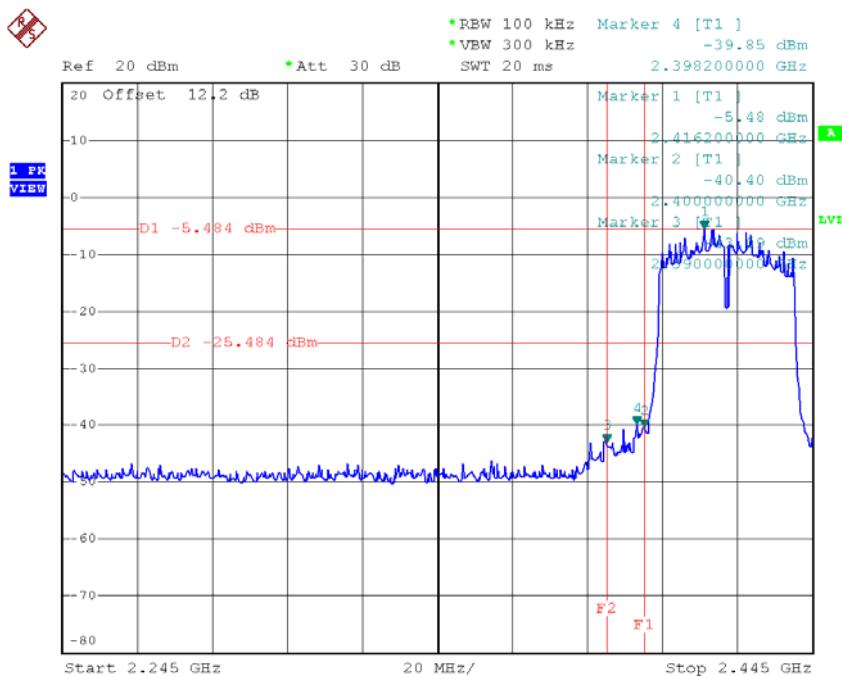
Date: 3.OCT.2016 11:01:33



Date: 3.OCT.2016 11:01:40

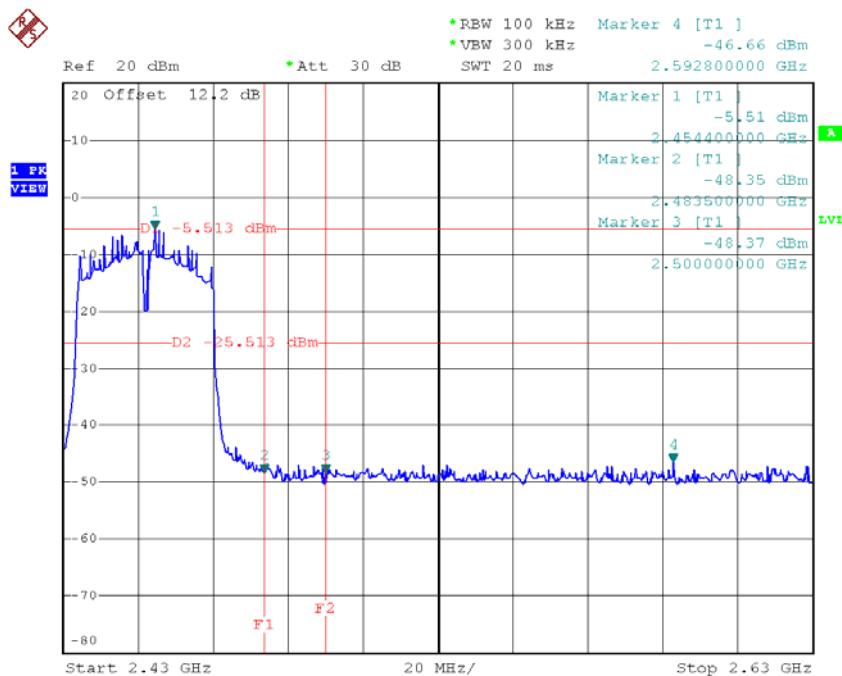
Test Mode: TX N-40M Mode_AN1

TX HT40 mode CH03



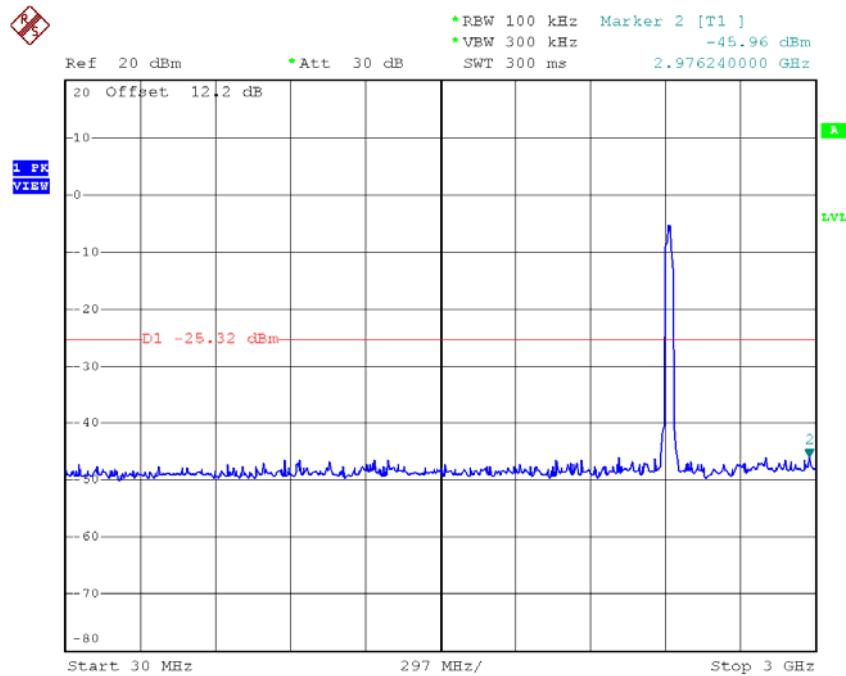
Date: 3.OCT.2016 11:18:03

TX HT40 mode CH09

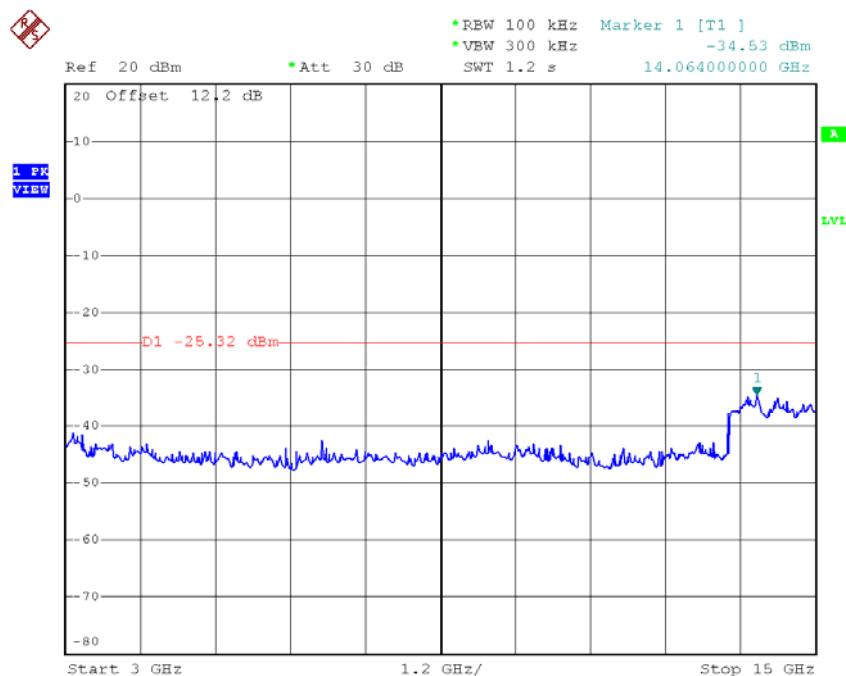


Date: 3.OCT.2016 11:21:26

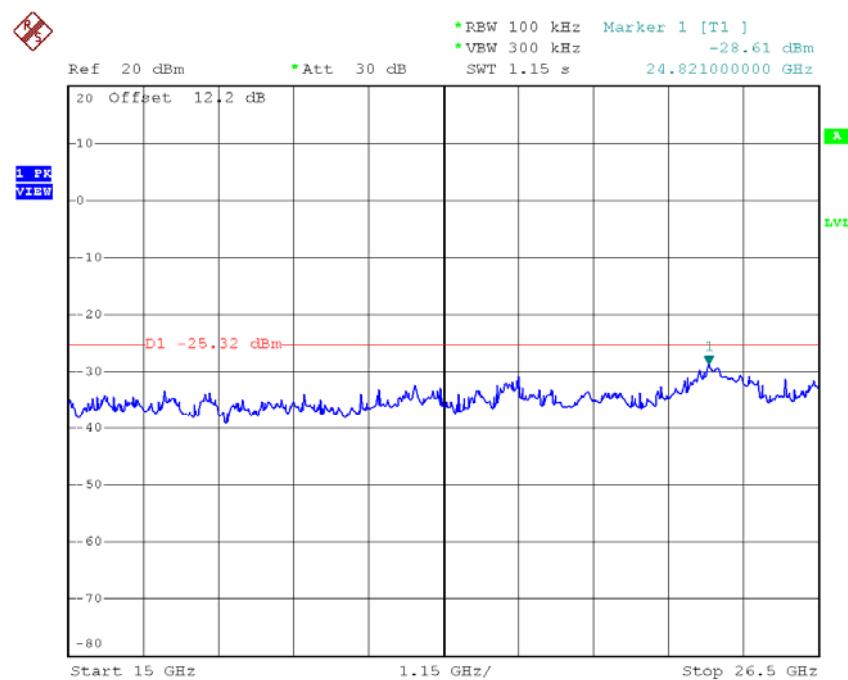
TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 3.OCT.2016 11:17:25

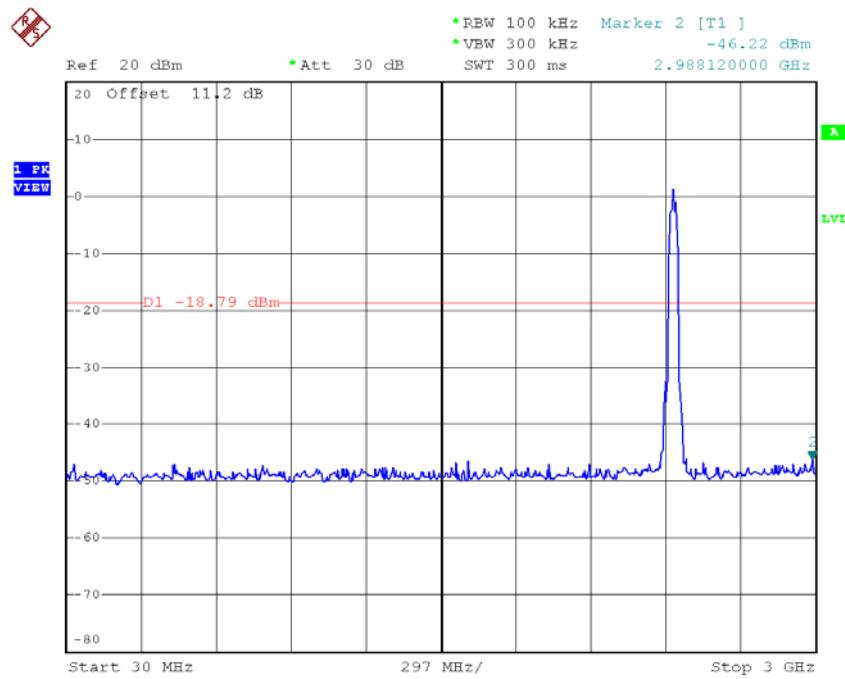


Date: 3.OCT.2016 11:17:32

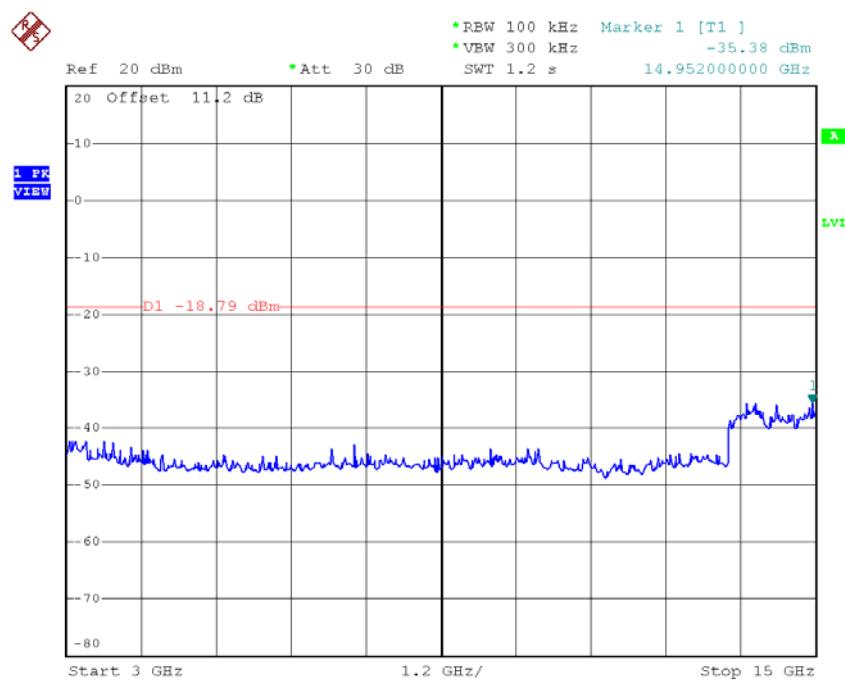


Date: 3.OCT.2016 11:17:39

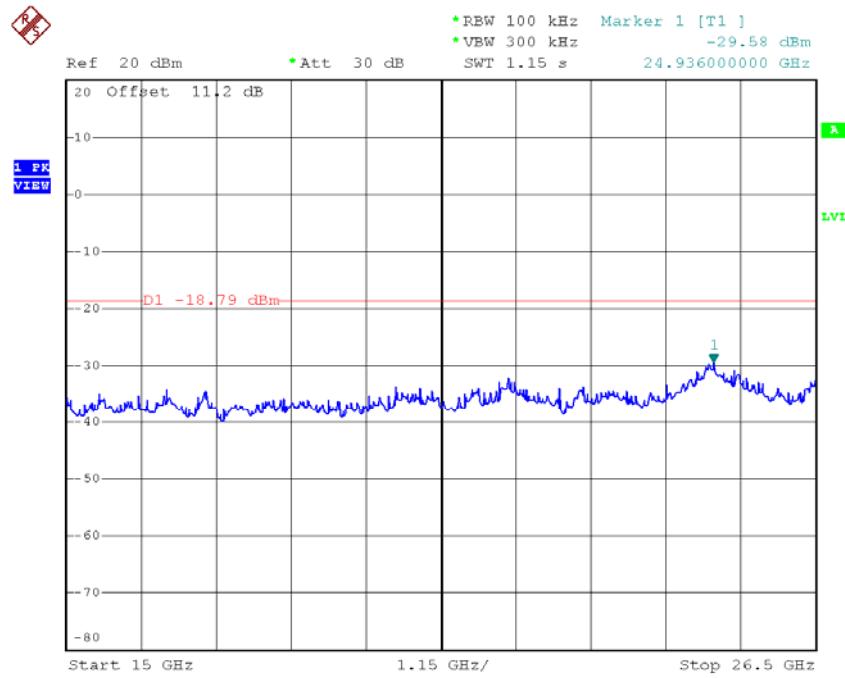
TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 30.JUL.2016 15:45:48

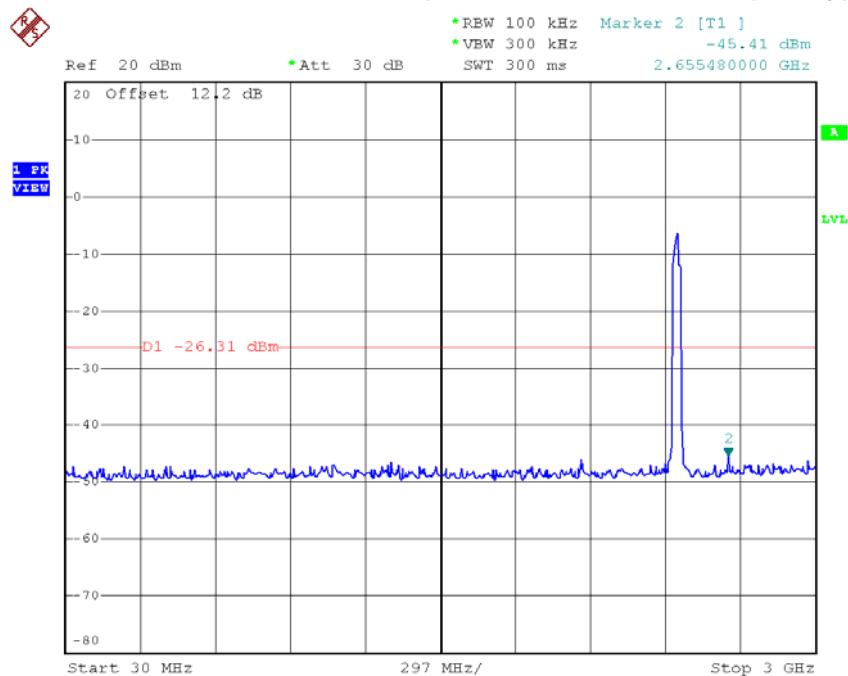


Date: 30.JUL.2016 15:45:55

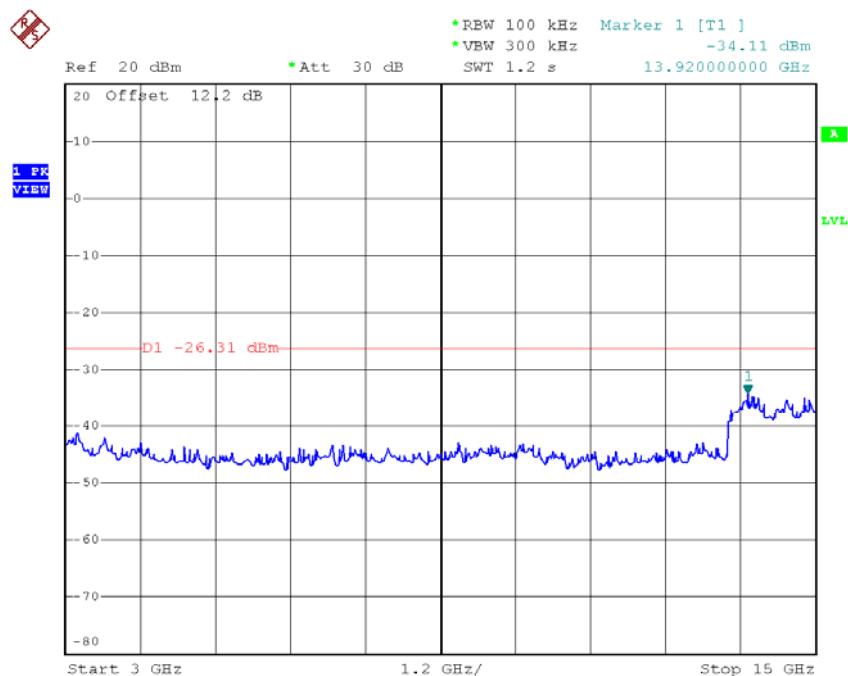


Date: 30.JUL.2016 15:46:02

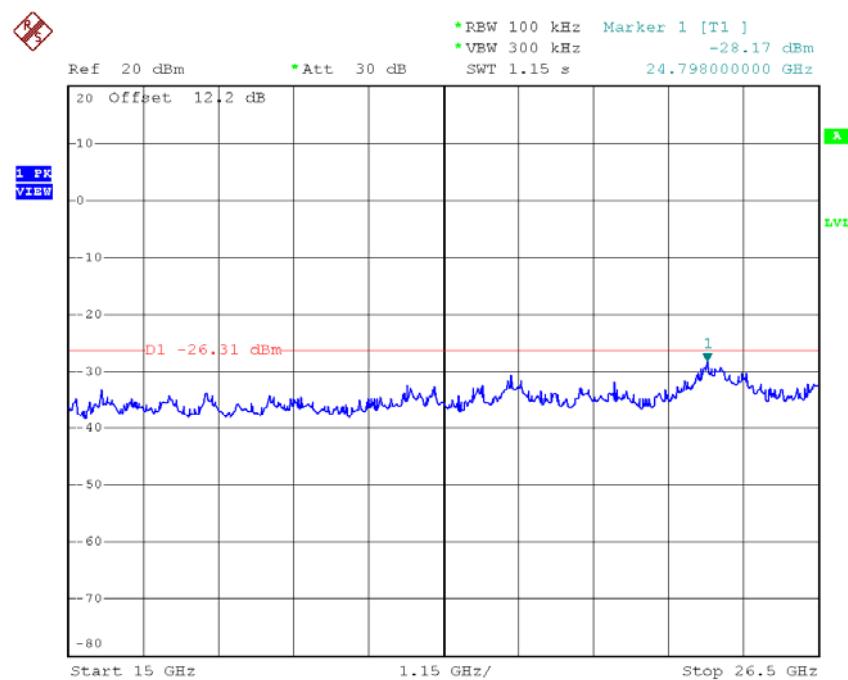
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 3.OCT.2016 11:20:48



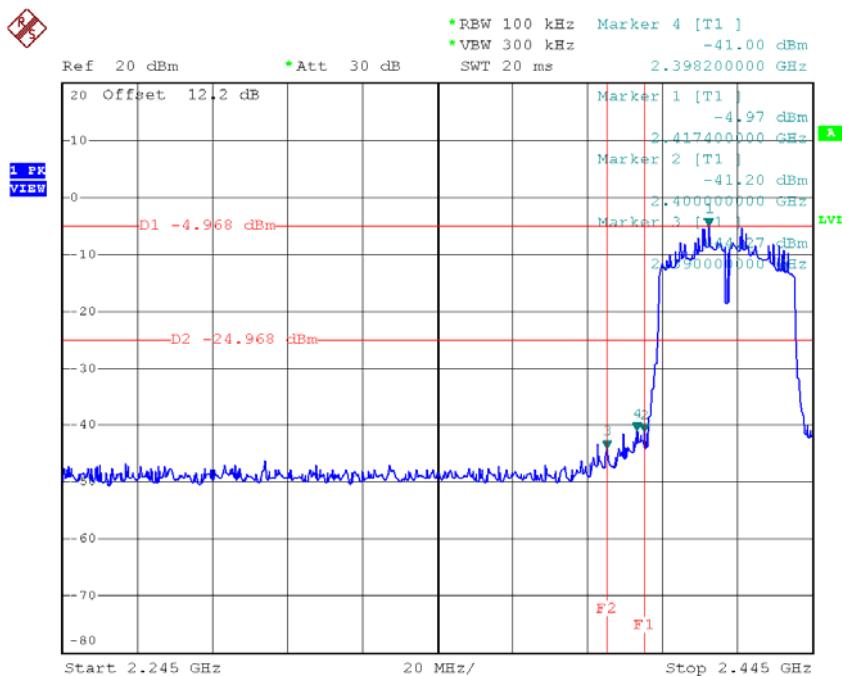
Date: 3.OCT.2016 11:20:55



Date: 3.OCT.2016 11:21:02

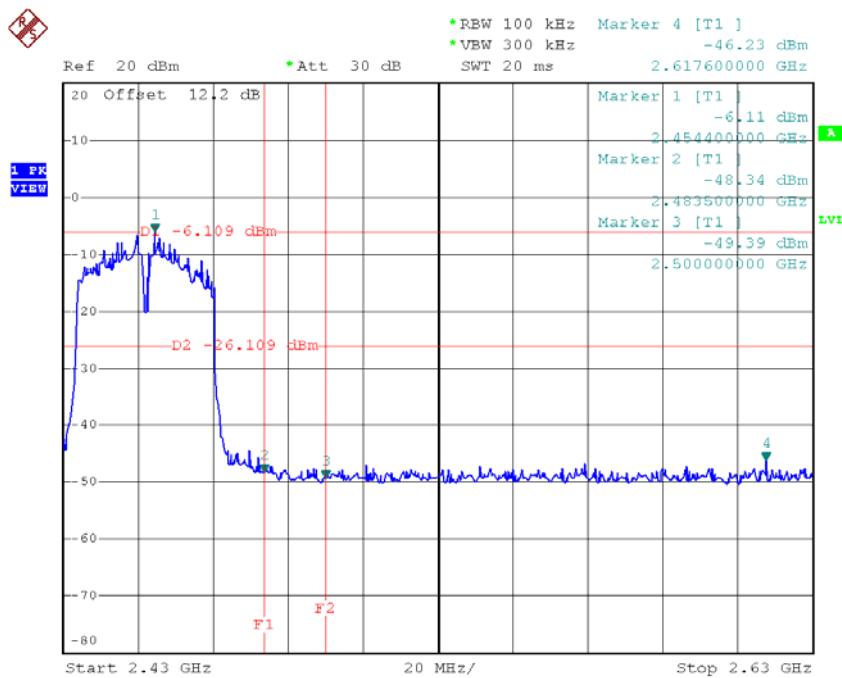
Test Mode: TX N-40M Mode_ANT 2

TX HT40 mode CH03



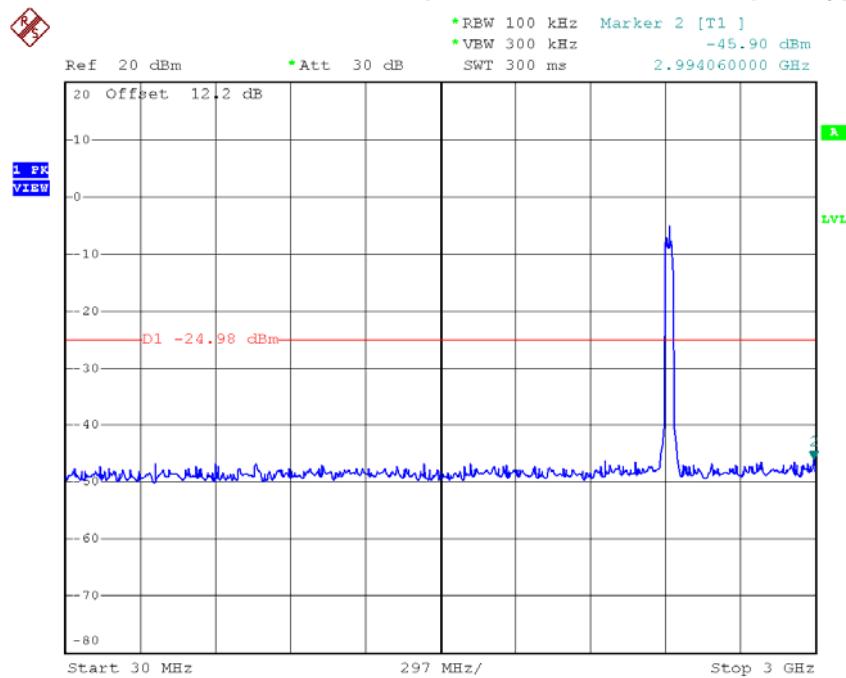
Date: 3.OCT.2016 11:19:26

TX HT40 mode CH09

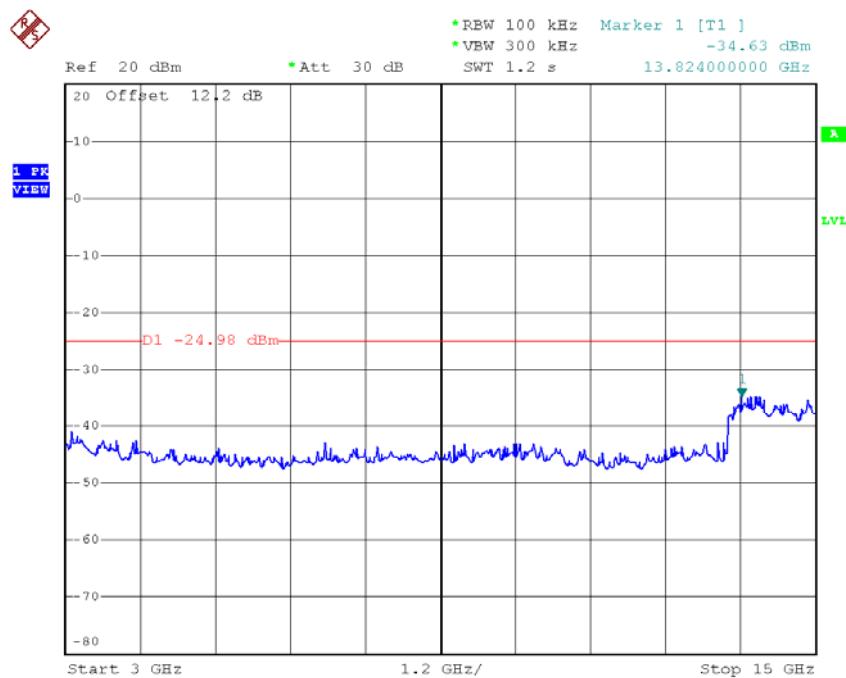


Date: 3.OCT.2016 11:26:54

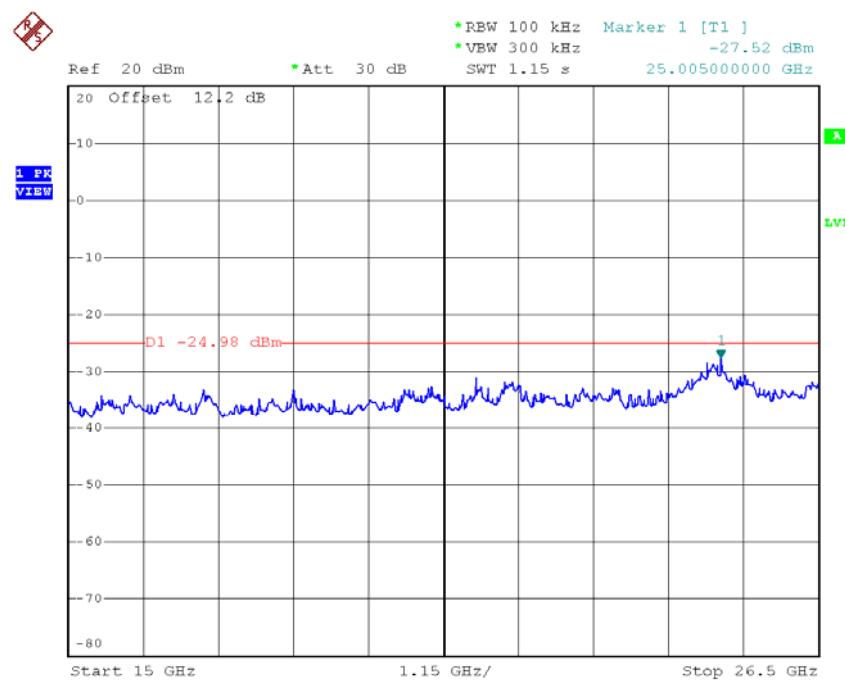
TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 3.OCT.2016 11:18:48

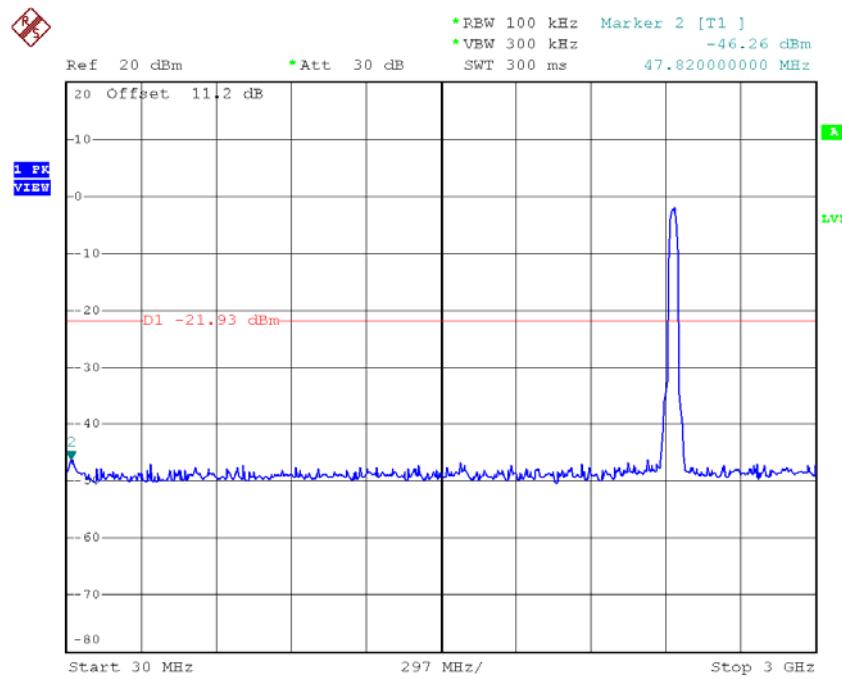


Date: 3.OCT.2016 11:18:55

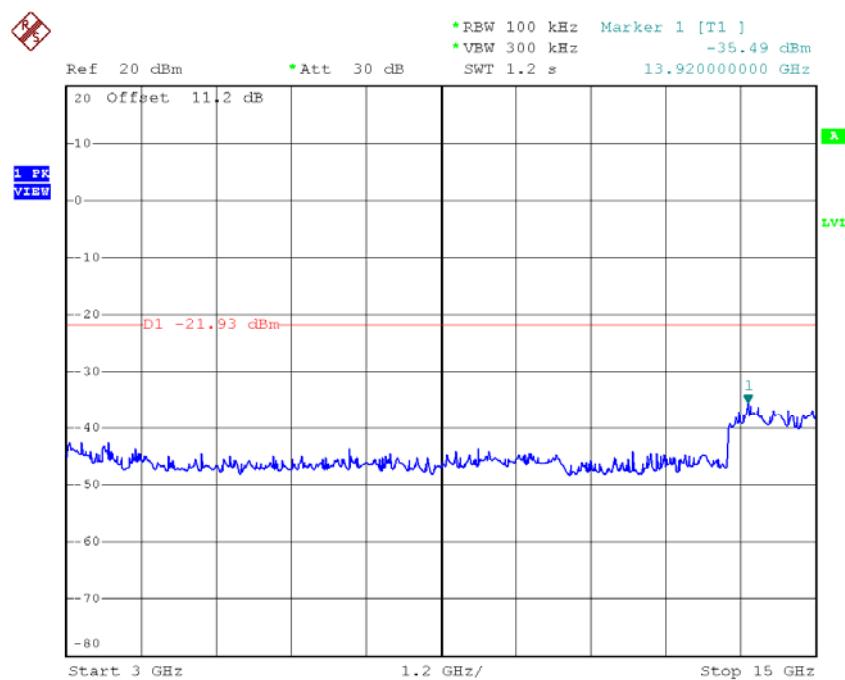


Date: 3.OCT.2016 11:19:02

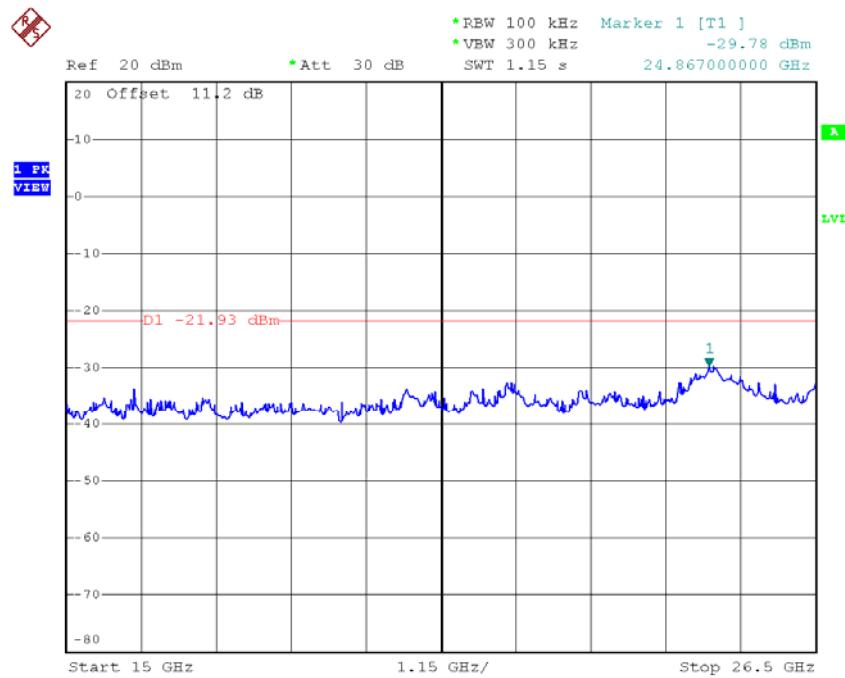
TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 30.JUL.2016 16:13:11

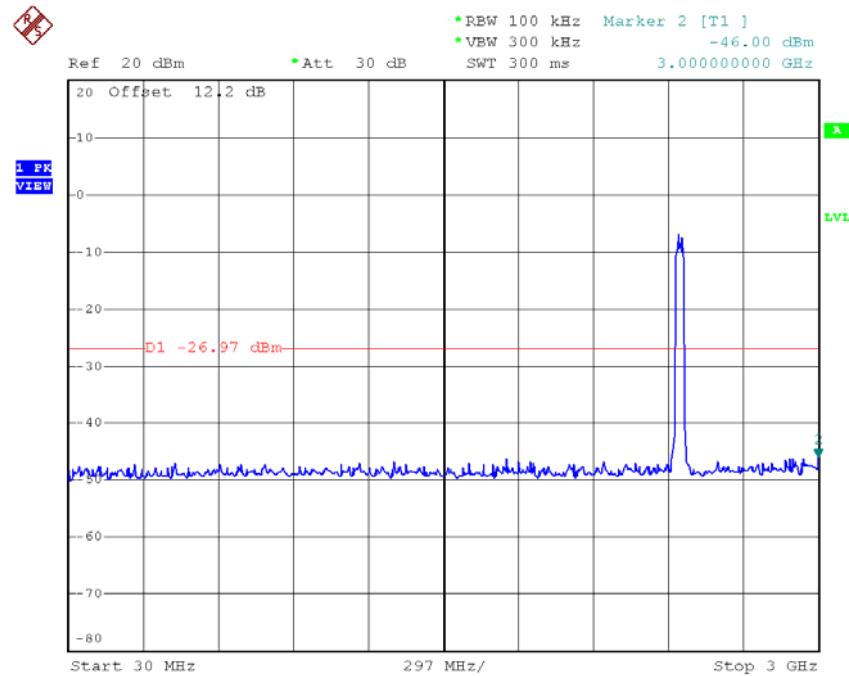


Date: 30.JUL.2016 16:13:18

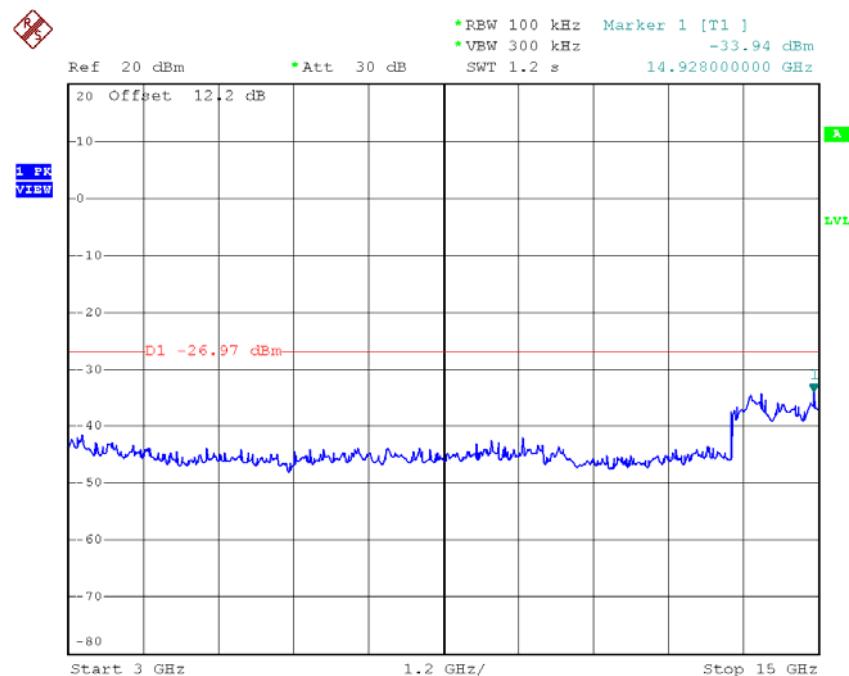


Date: 30.JUL.2016 16:13:26

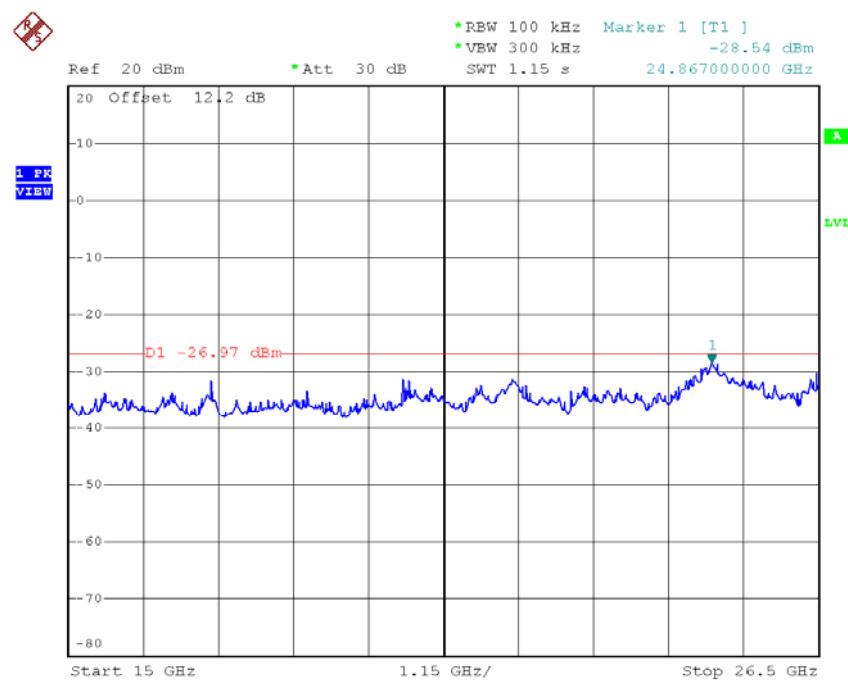
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 3.OCT.2016 11:26:16



Date: 3.OCT.2016 11:26:23



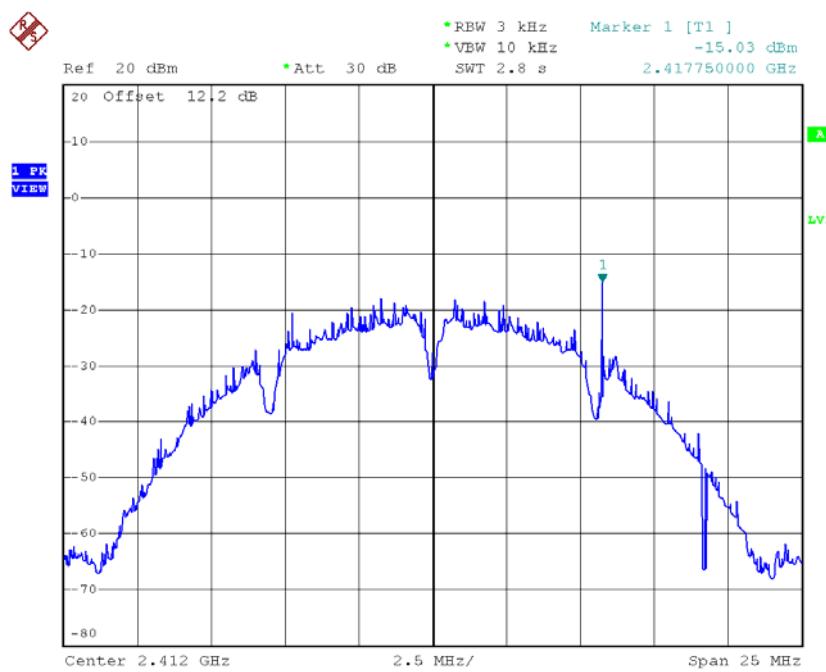
Date: 3.OCT.2016 11:26:30

ATTACHMENT I - POWER SPECTRAL DENSITY

Test Mode: TX B Mode_CH01/06/11

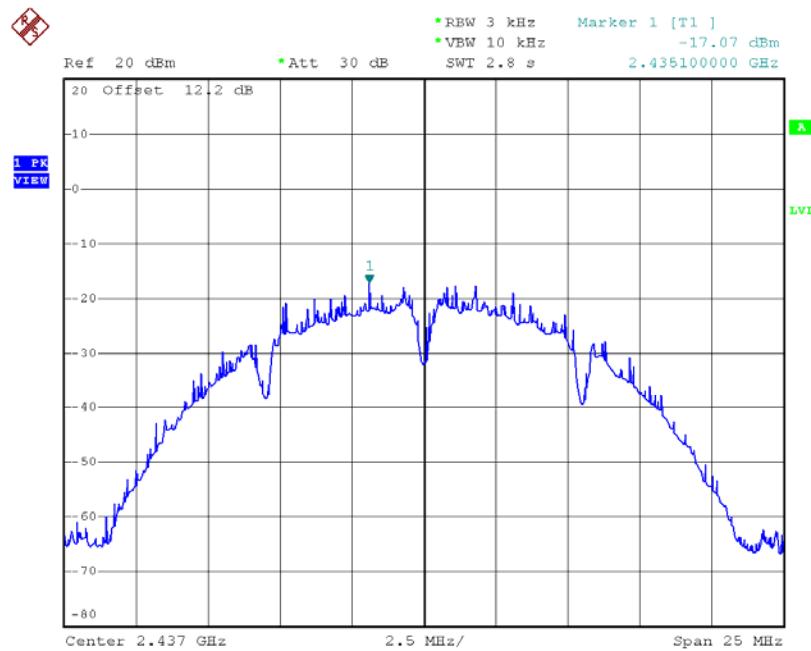
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.03	0.03	8.00	Complies
2437	-17.07	0.02	8.00	Complies
2462	-15.31	0.03	8.00	Complies

TX CH01



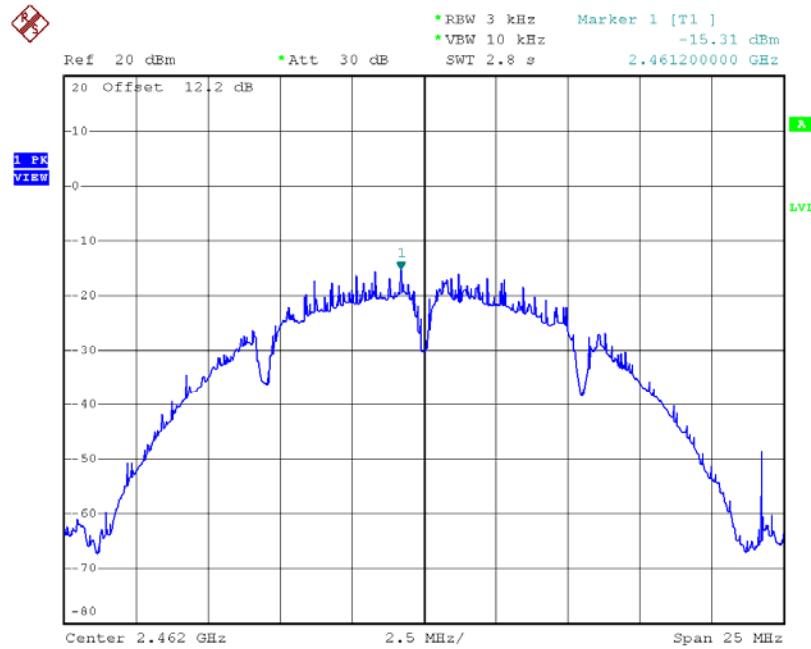
Date: 3.OCT.2016 09:57:15

TX CH06



Date: 3.OCT.2016 10:12:09

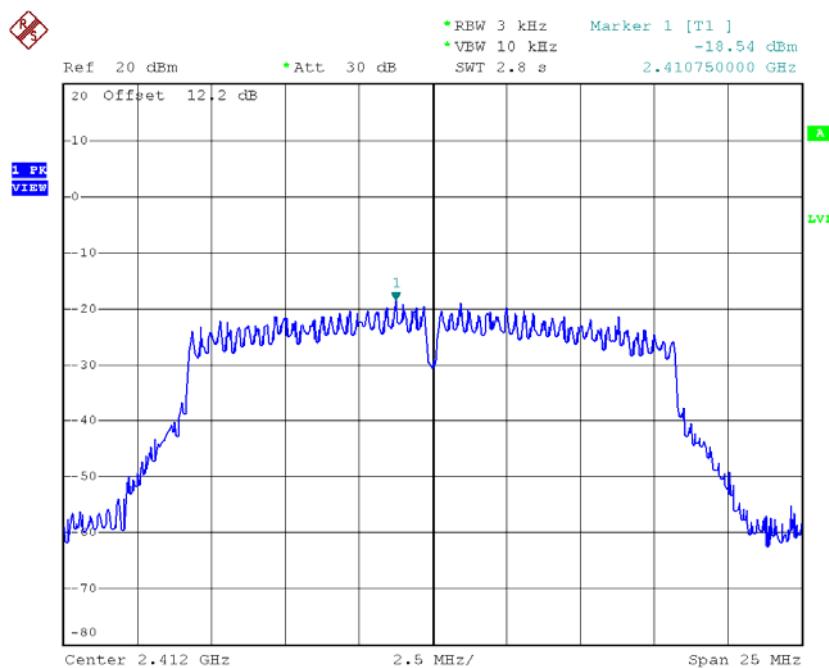
TX CH11



Date: 3.OCT.2016 10:14:26

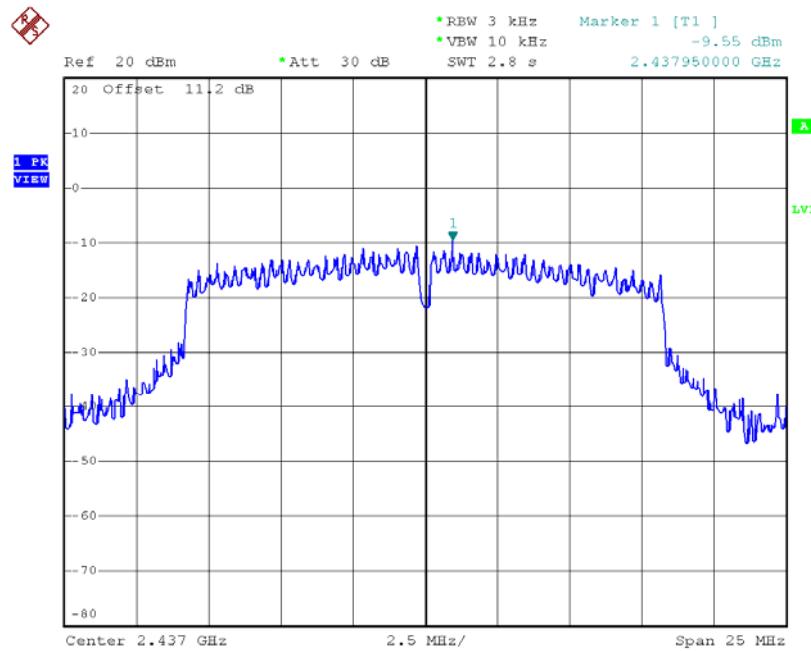
Test Mode: TX G Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-18.54	0.01	8.00	Complies
2437	-9.55	0.11	8.00	Complies
2462	-15.79	0.03	8.00	Complies

TX CH01

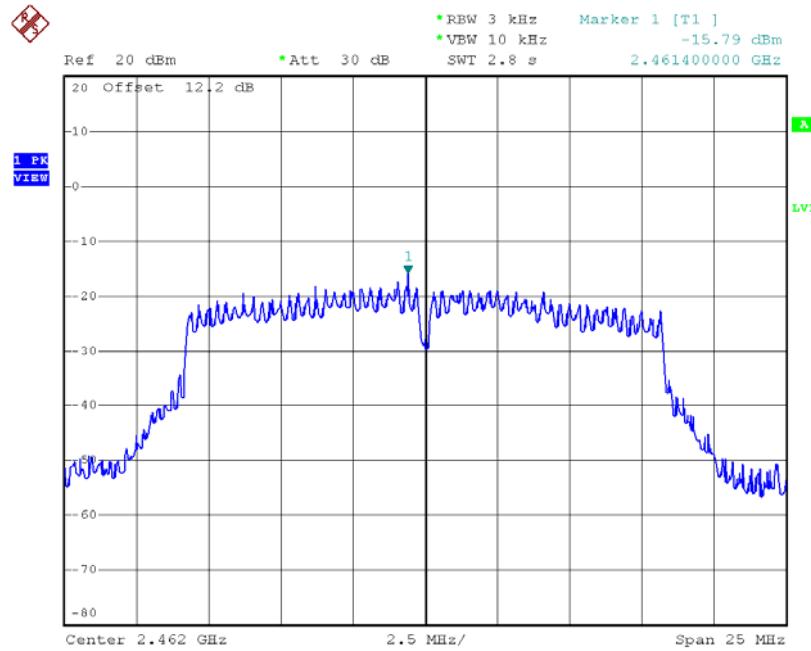
Date: 3.OCT.2016 10:40:04

TX CH06



Date: 30.JUL.2016 15:22:51

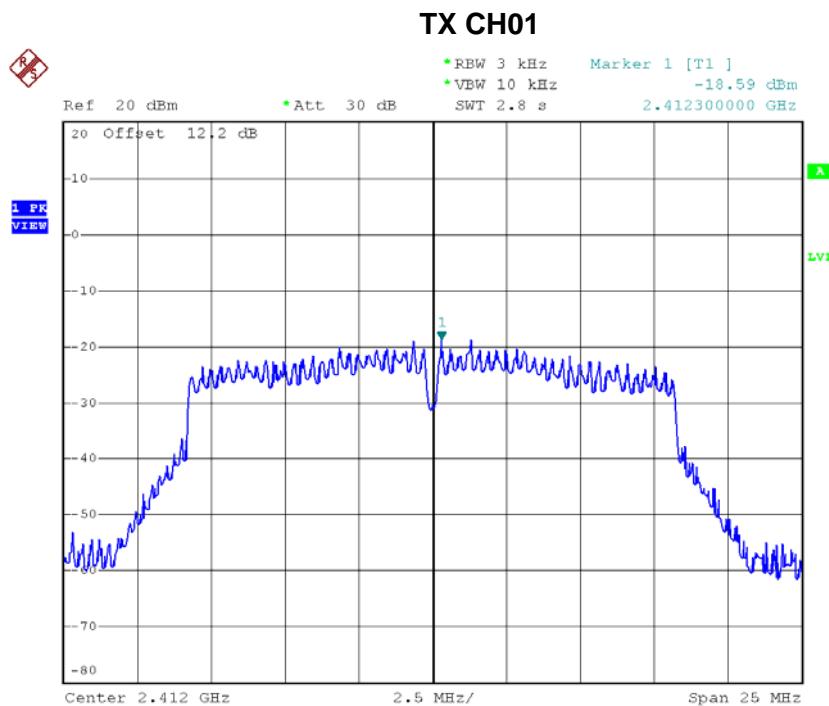
TX CH11



Date: 3.OCT.2016 10:44:06

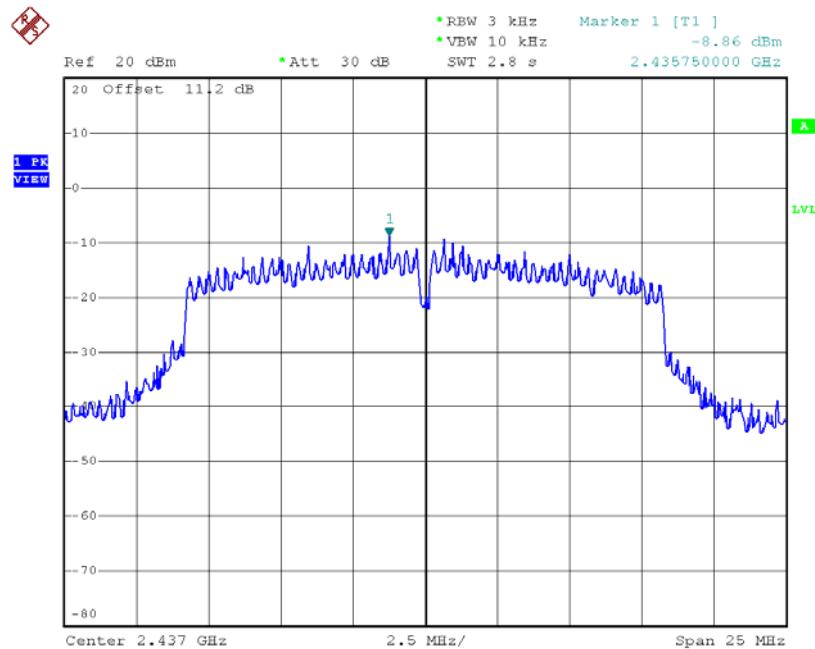
Test Mode: TX G Mode_CH01/06/11_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-18.59	0.01	8.00	Complies
2437	-8.86	0.13	8.00	Complies
2462	-17.06	0.02	8.00	Complies



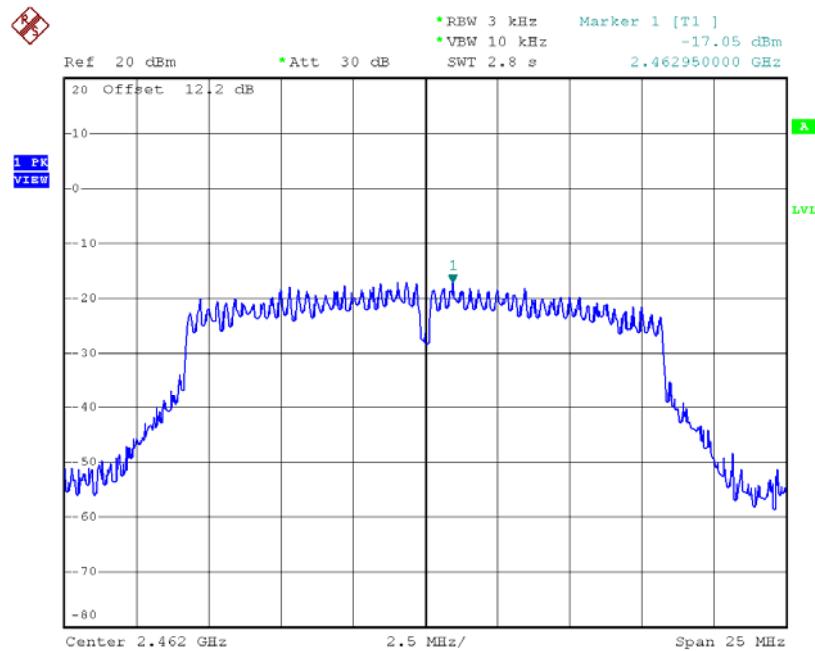
Date: 3.OCT.2016 10:41:17

TX CH06



Date: 30.JUL.2016 16:37:13

TX CH11



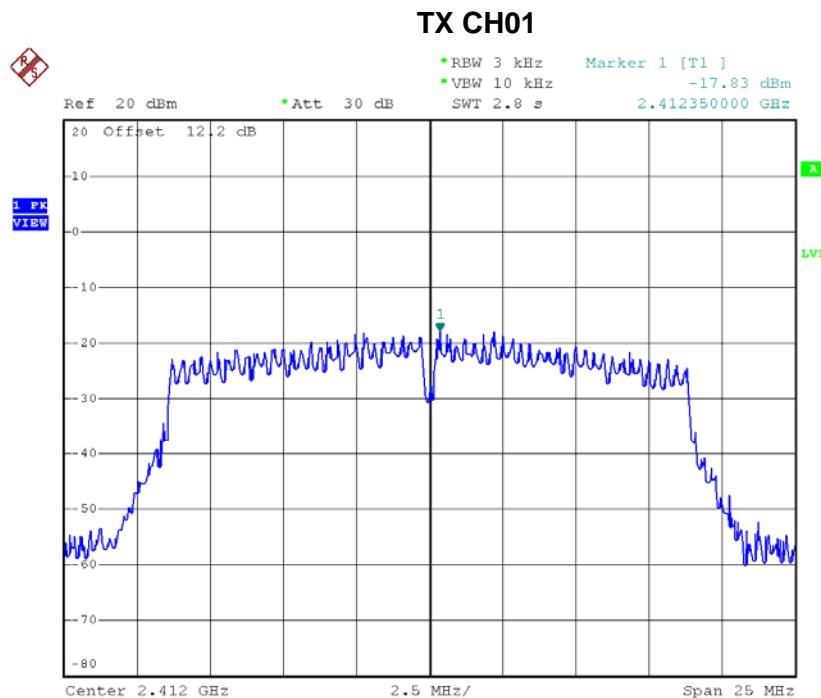
Date: 3.OCT.2016 10:45:37

Test Mode: TX G Mode_CH01/06/11_Total

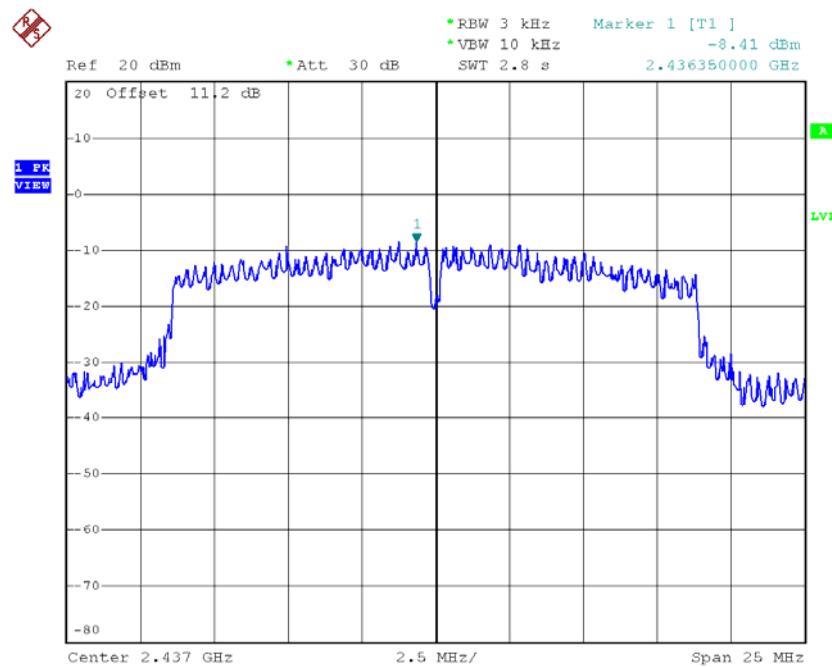
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.55	0.03	8.00	Complies
2437	-6.18	0.24	8.00	Complies
2462	-13.37	0.05	8.00	Complies

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

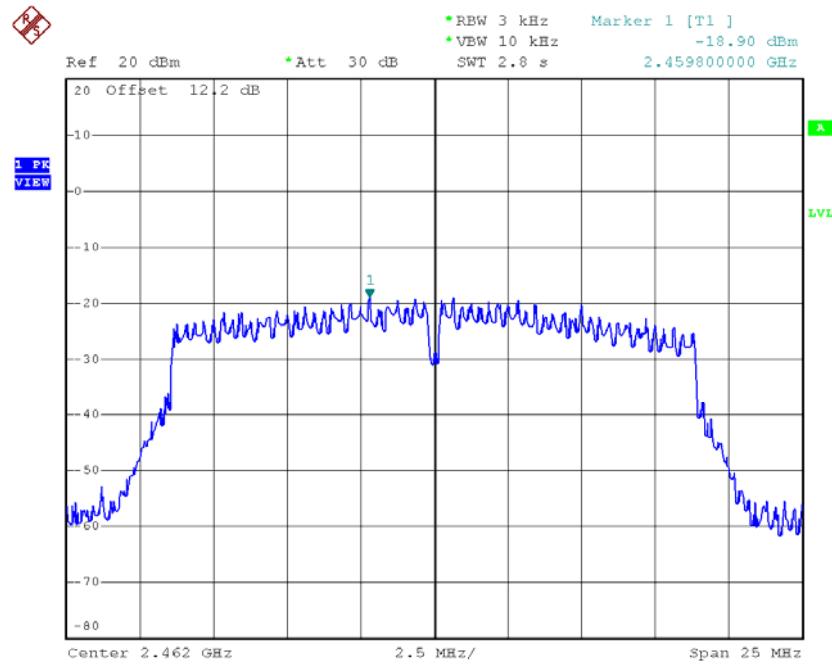
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-17.83	0.02	8.00	Complies
2437	-8.41	0.14	8.00	Complies
2462	-18.90	0.01	8.00	Complies



Date: 3.OCT.2016 10:57:20

TX CH06


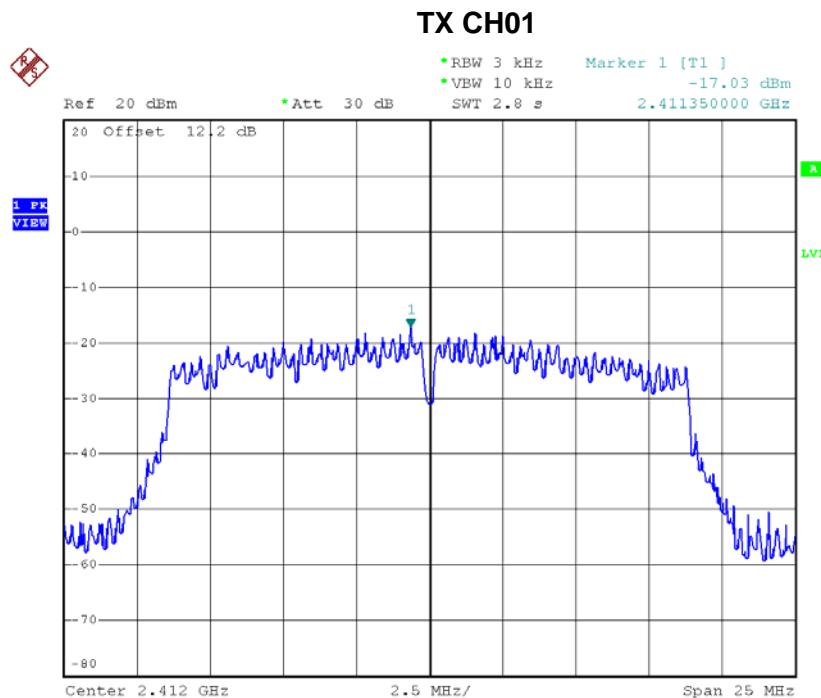
Date: 30.JUL.2016 15:37:13

TX CH11


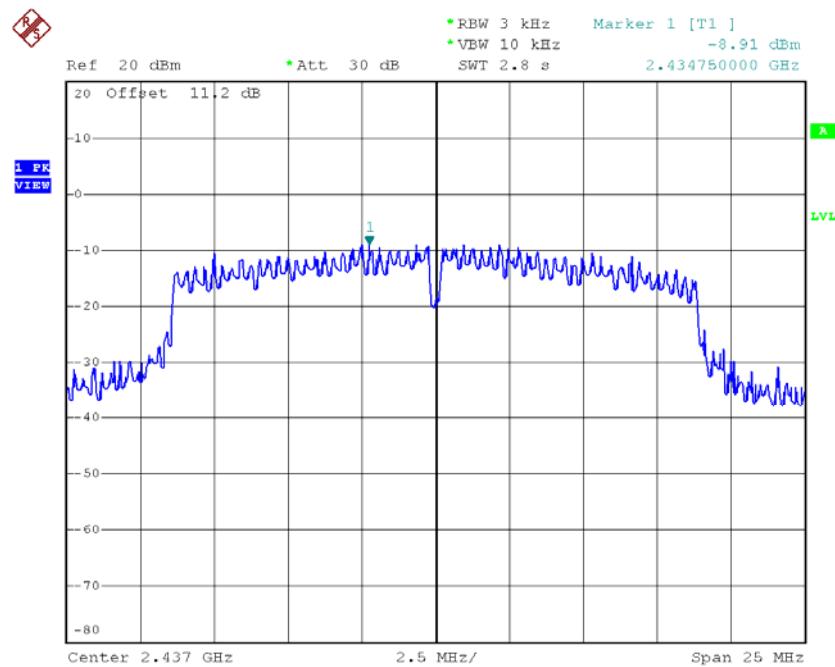
Date: 3.OCT.2016 11:00:37

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

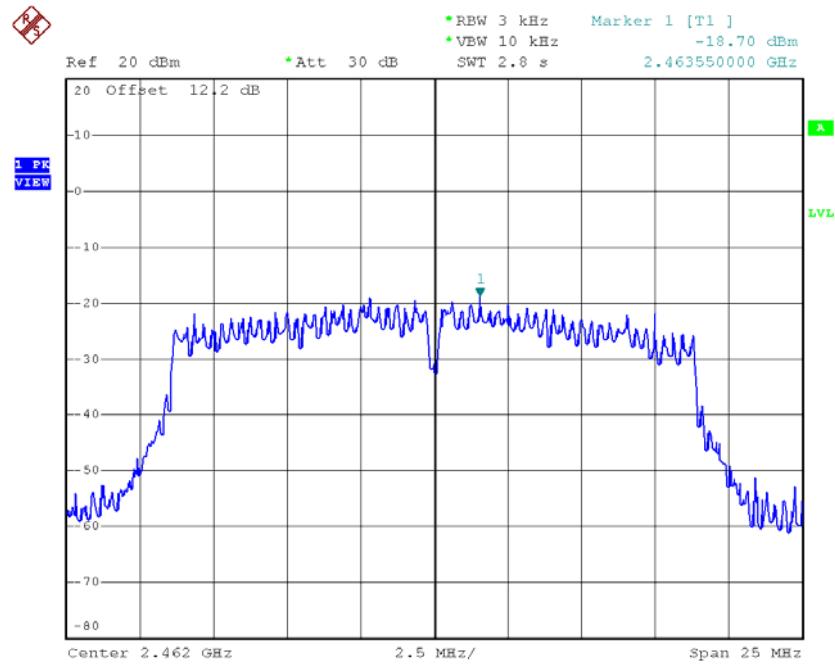
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-17.03	0.02	8.00	Complies
2437	-8.91	0.13	8.00	Complies
2462	-18.70	0.01	8.00	Complies



Date: 3.OCT.2016 10:58:45

TX CH06


Date: 30.JUL.2016 16:31:16

TX CH11


Date: 3.OCT.2016 11:02:12

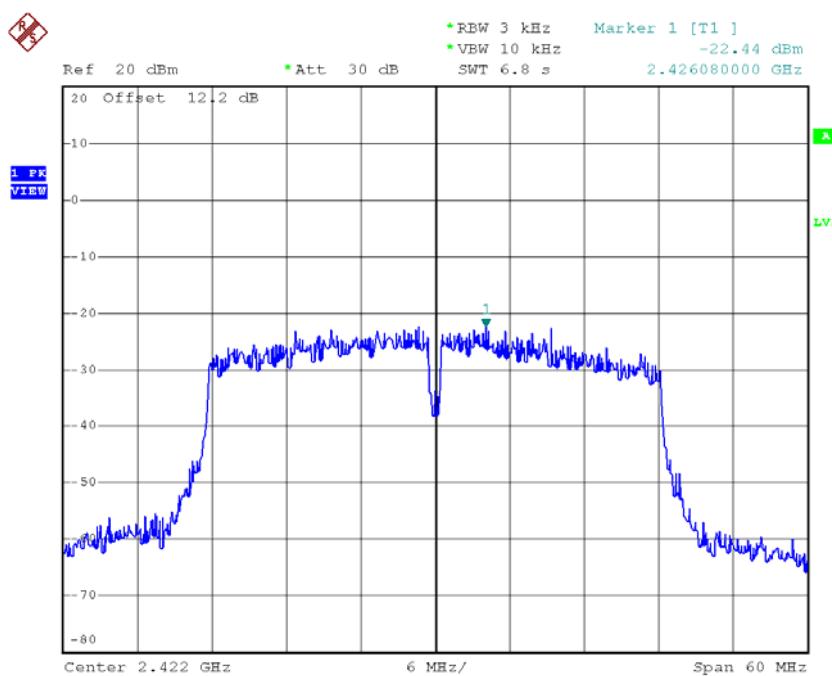
Test Mode: TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.40	0.04	8.00	Complies
2437	-5.64	0.27	8.00	Complies
2462	-15.79	0.03	8.00	Complies

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

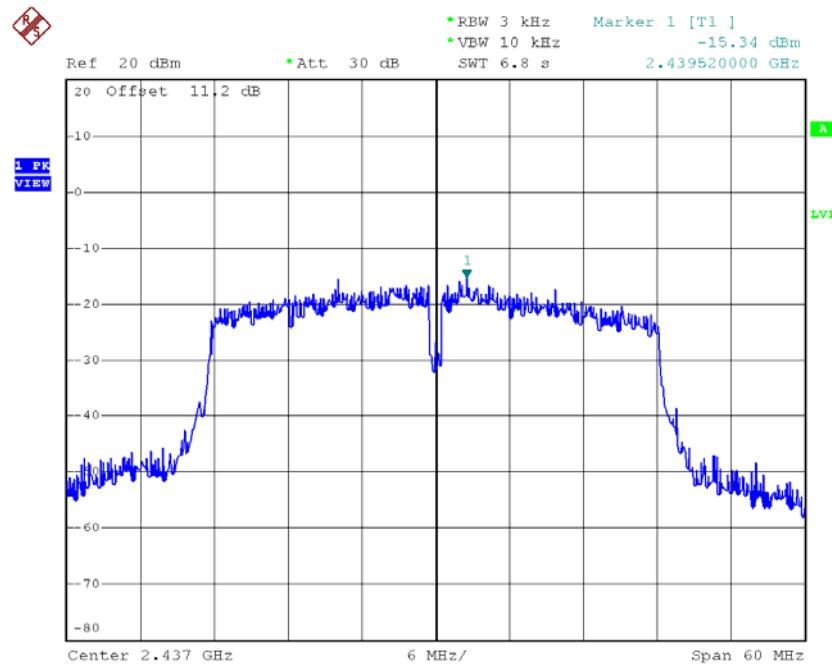
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-22.44	0.01	8.00	Complies
2437	-15.34	0.03	8.00	Complies
2452	-22.72	0.01	8.00	Complies

TX CH03



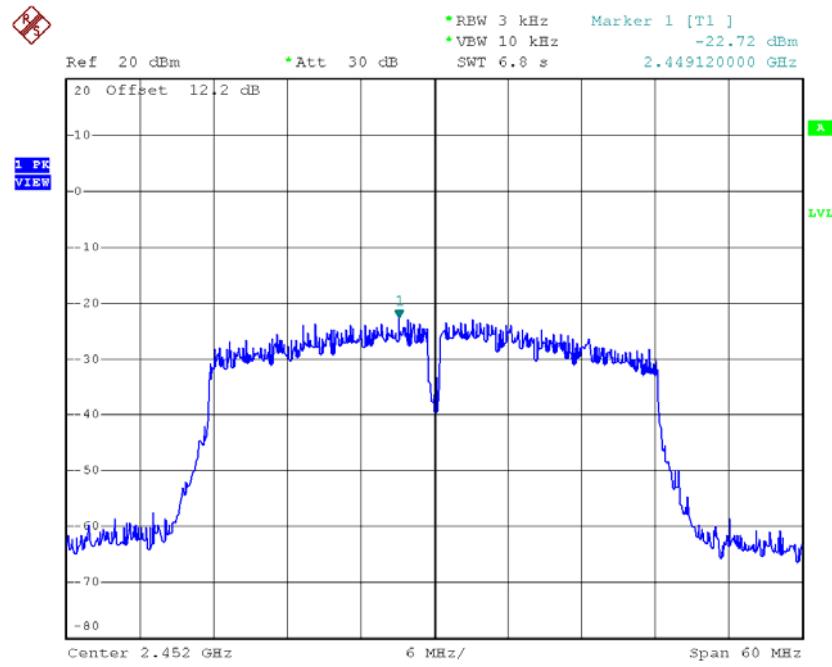
Date: 3.OCT.2016 11:18:14

TX CH06



Date: 30.JUL.2016 15:46:14

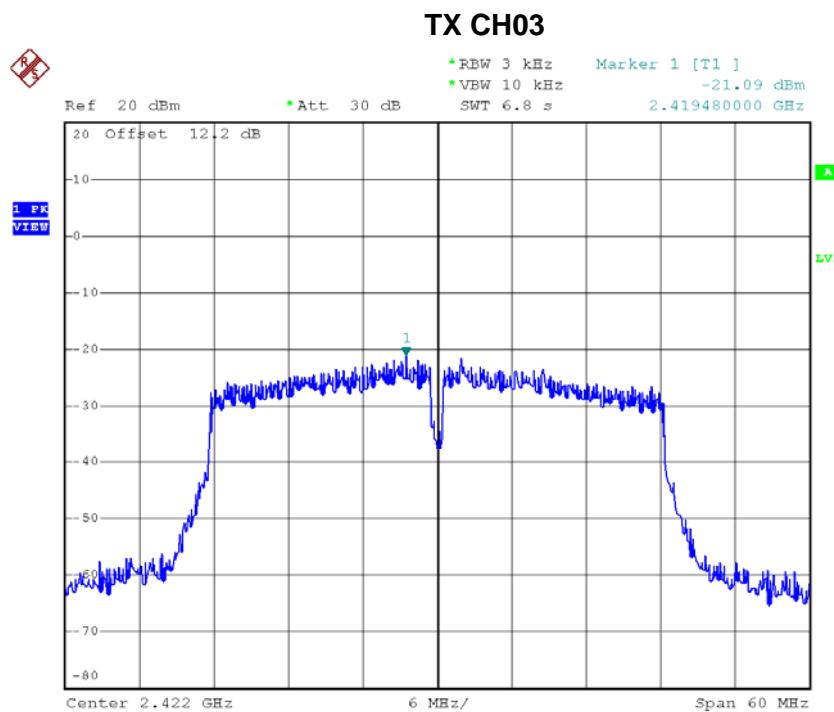
TX CH09



Date: 3.OCT.2016 11:21:37

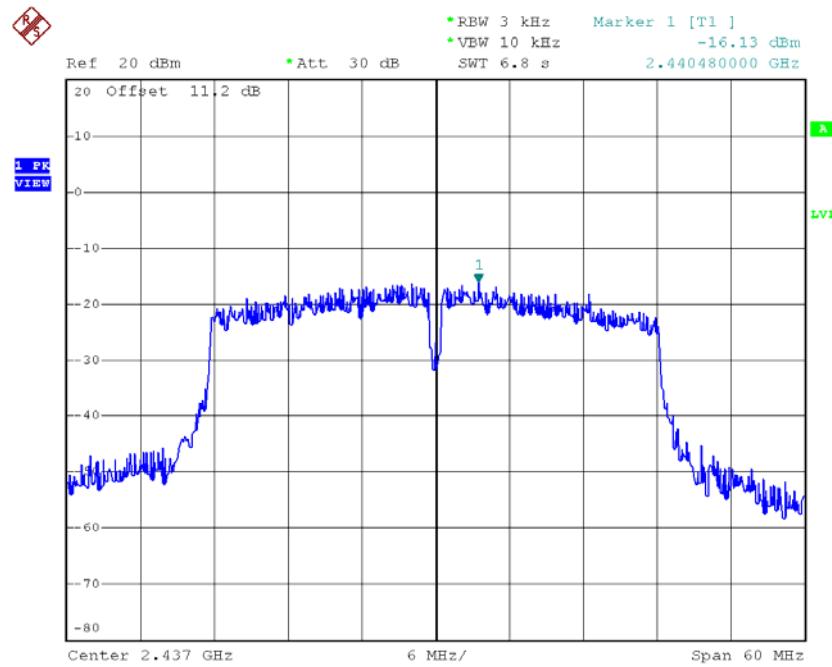
Test Mode: TX N-40M Mode_CH03/06/09_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-21.09	0.01	8.00	Complies
2437	-16.13	0.02	8.00	Complies
2452	-24.18	0.00	8.00	Complies



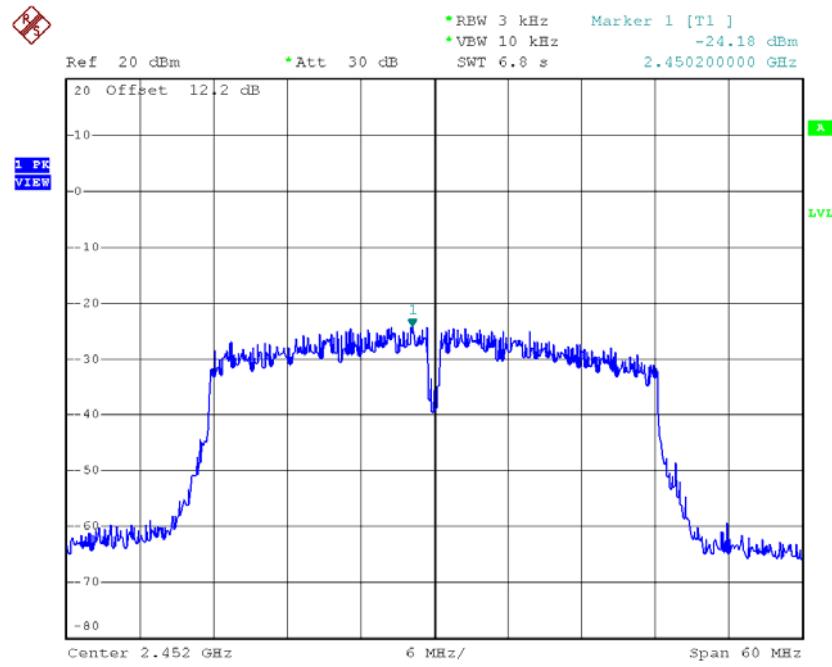
Date: 3.OCT.2016 11:19:37

TX CH06



Date: 30.JUL.2016 16:13:37

TX CH09



Date: 3.OCT.2016 11:24:10

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	-18.70	0.01	8.00	Complies
2437	-12.71	0.05	8.00	Complies
2452	-20.38	0.01	8.00	Complies