

FCC Radio Test Report

FCC ID: 2ABZMW175AP

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

Project No. : 1502C009
Equipment : 1350M 11AC High Power Ceiling Access Point
Model Name : W175AP
Applicant : SHENZHEN IP-COM NETWORKS CO.,LTD.
Address : Room 101,Unit A,First Floor, Tower E3, No. 1001,
Zhongshanyuan Road, Nanshan District,Shenzhen,
China. 518052

Date of Receipt : Feb. 02, 2015
Date of Test : Feb. 02, 2015 ~ Apr. 14, 2015
Issued Date : Apr. 15, 2015
Tested by : BTL Inc.

Testing Engineer : David Mao
(David Mao)

Technical Manager : Leo Hung
(Leo Hung)

Authorized Signatory : Steven Lu
(Steven Lu)

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan,
Guangdong, China.

TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

Declaration

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

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

BTL's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **BTL-self**, extracts from the test report shall not be reproduced except in full with **BTL**'s authorized written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

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

Table of Contents	Page
1 . CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3 . GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	12
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	13
3.5 DESCRIPTION OF SUPPORT UNITS	13
4 . EMC EMISSION TEST	14
4.1 CONDUCTED EMISSION MEASUREMENT	14
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	14
4.1.2 TEST PROCEDURE	14
4.1.3 DEVIATION FROM TEST STANDARD	14
4.1.4 TEST SETUP	15
4.1.5 EUT OPERATING CONDITIONS	15
4.1.6 EUT TEST CONDITIONS	15
4.1.7 TEST RESULTS	15
4.2 RADIATED EMISSION MEASUREMENT	16
4.2.1 RADIATED EMISSION LIMITS	16
4.2.2 TEST PROCEDURE	17
4.2.3 DEVIATION FROM TEST STANDARD	17
4.2.4 TEST SETUP	17
4.2.5 EUT OPERATING CONDITIONS	18
4.2.6 EUT TEST CONDITIONS	18
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	19
4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)	19
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	19
5 . BANDWIDTH TEST	20
5.1 APPLIED PROCEDURES	20
5.1.1 TEST PROCEDURE	20
5.1.2 DEVIATION FROM STANDARD	20
5.1.3 TEST SETUP	20
5.1.4 EUT OPERATION CONDITIONS	20
5.1.5 EUT TEST CONDITIONS	20
5.1.6 TEST RESULTS	20

Table of Contents	Page
6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST	21
6.1 APPLIED PROCEDURES / LIMIT	21
6.1.1 TEST PROCEDURE	21
6.1.2 DEVIATION FROM STANDARD	21
6.1.3 TEST SETUP	21
6.1.4 EUT OPERATION CONDITIONS	21
6.1.5 EUT TEST CONDITIONS	21
6.1.6 TEST RESULTS	21
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	22
7.1 APPLIED PROCEDURES / LIMIT	22
7.1.1 TEST PROCEDURE	22
7.1.2 DEVIATION FROM STANDARD	22
7.1.3 TEST SETUP	22
7.1.4 EUT OPERATION CONDITIONS	22
7.1.5 EUT TEST CONDITIONS	22
7.1.6 TEST RESULTS	22
8 . POWER SPECTRAL DENSITY TEST	23
8.1 APPLIED PROCEDURES / LIMIT	23
8.1.1 TEST PROCEDURE	23
8.1.2 DEVIATION FROM STANDARD	23
8.1.3 TEST SETUP	23
8.1.4 EUT OPERATION CONDITIONS	23
8.1.5 EUT TEST CONDITIONS	23
8.1.6 TEST RESULTS	23
9 . MEASUREMENT INSTRUMENTS LIST	24
10 . EUT TEST PHOTO	26
ATTACHMENT A - CONDUCTED EMISSION	30
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	33
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	35
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)	42
ATTACHMENT E - BANDWIDTH	91
ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER	100
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION	104
ATTACHMENT H - POWER SPECTRAL DENSITY	129

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1502C009	Original Issue.	Apr. 15, 2015

1. CERTIFICATION

Equipment : 1350M 11AC High Power Ceiling Access Point
Brand Name : IP-COM
Model Name : W175AP
Applicant : SHENZHEN IP-COM NETWORKS CO.,LTD.
Manufacturer : SHENZHEN IP-COM NETWORKS CO.,LTD.
Address : Room 101,Unit A,First Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,Shenzhen,China. 518052
Date of Test : Feb. 02, 2015 ~ Apr. 14, 2015
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.4-2009

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

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1502C009) 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).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247) , Subpart C: 2014			
Standard(s)	Section	Test Item	Judgment
	15.207	Conducted Emission	PASS
	15.247(d)	Antenna conducted Spurious Emission	PASS
	15.247(a)(2)	6dB Bandwidth	PASS
	15.247(b)(3)	Peak Output Power	PASS
	15.247(e)	Power Spectral Density	PASS
	15.203	Antenna Requirement	PASS
	15.209/15.205	Transmitter Radiated Emissions	PASS

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3,Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.523792
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement :

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

B. Radiated Measurement :

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	1350M 11AC High Power Ceiling Access Point	
Brand Name	IP-COM	
Model Name	W175AP	
Model Difference	N/A	
Product Description	For the information of EUT's HW version/SW version/ Serial number, please refer to the operation description file.	
	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 450Mbps
	Output Power (Max.)	802.11b: 19.84dBm 802.11g: 21.04dBm 802.11n(20MHz): 23.73dBm 802.11n(40MHz): 22.03dBm
Power Source	Supplied from PoE Brand/Model: GOSPELL DIGITAL TECHNOLOGY CO.,LTD./ GP306A-510-125	
Power Rating	I/P: 100-240V ~1.5A MAX 50/60Hz O/P: 51V /1.25A I/P: AC 100-240V 1.5A 50/60Hz O/P: DC 51V 1.25A	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The product will be sold with 2 kinds of base plates, the test results would not be affected by the appearance difference.

2. Channel List:

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

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	IP-COM	N/A	Internal	N/A	3.00	2.4G
2	IP-COM	N/A	Internal	N/A	3.00	2.4G
3	IP-COM	N/A	Internal	N/A	3.00	2.4G

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides three completed transmitters and receivers (3T3R).
- (2) ANT 1 is the worst case for 1TX

4.

Operating Mode TX Mode	1TX	3TX
802.11b	V (ANT 1)	-
802.11g	V (ANT 1)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2+ANT 3)
802.11n(40MHz)	-	V (ANT 1 + ANT 2+ANT 3)

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

For Radiated Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09

Note:

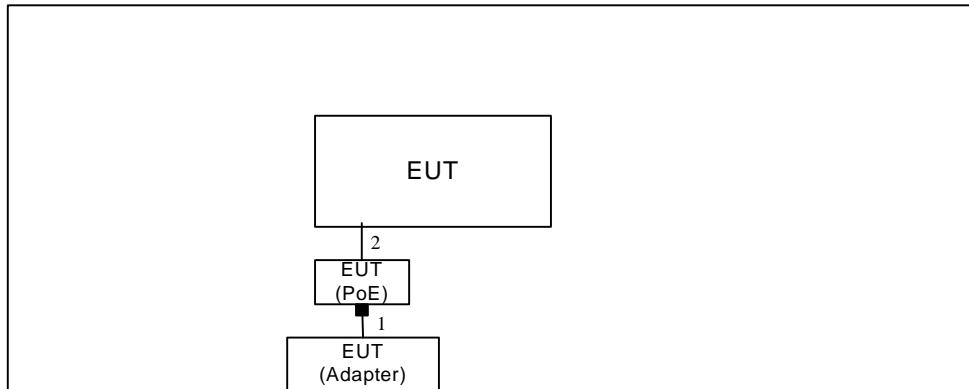
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (19.50Mbps)
802.11n HT40 mode : BPSK (40.50Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) 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%.

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	MTOOL		
Frequency (MHz)	2412	2437	2462
802.11b	83	83	83
802.11g	60	70	60
802.11n (20MHz)	56	56	56
Frequency	2422	2437	2452
802.11n (40MHz)	42	50	41

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	YES	1m	DC cable
2	NO	NO	1m	RJ45 cable

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

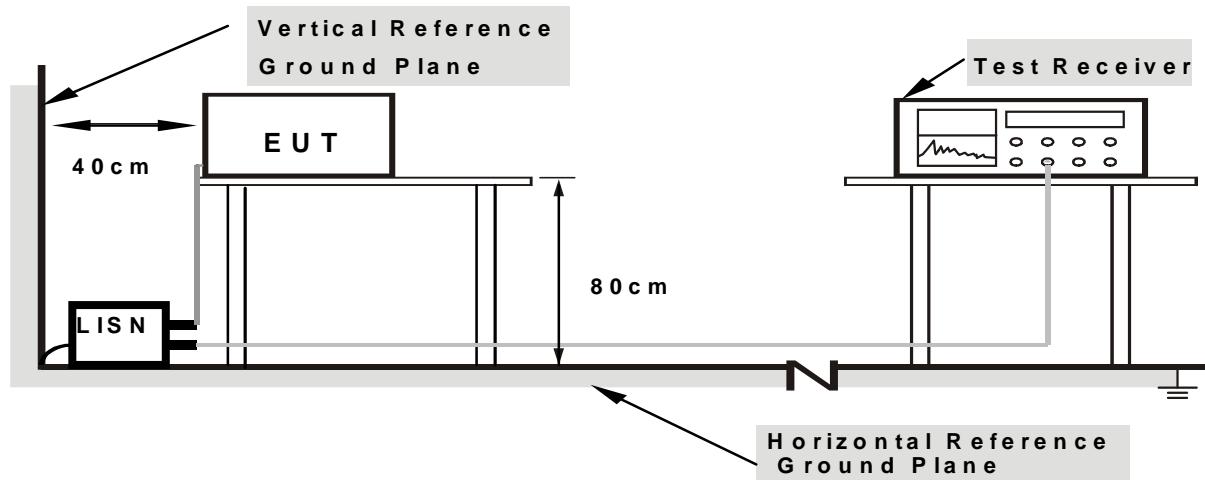
4.1.2 TEST PROCEDURE

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

Frequency (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)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

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

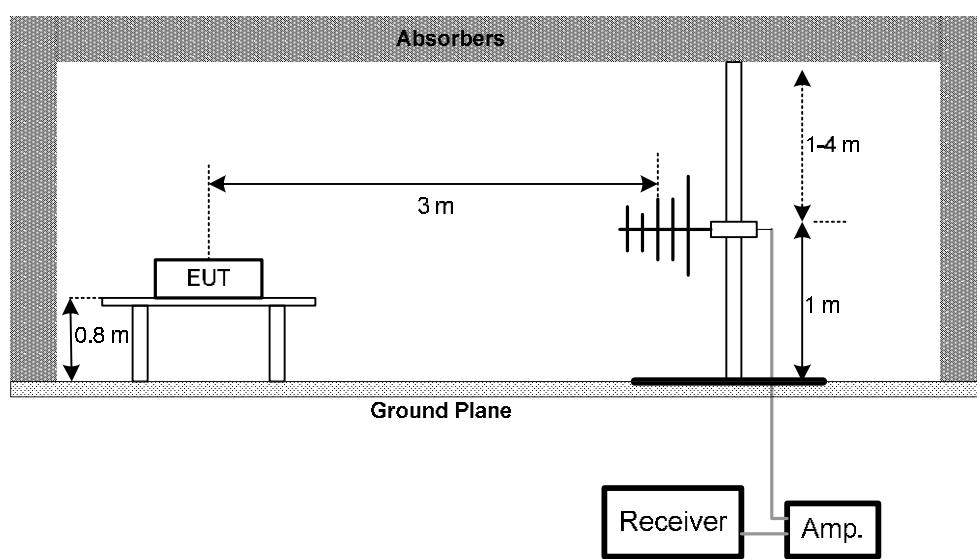
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3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

4.2.3 DEVIATION FROM TEST STANDARD

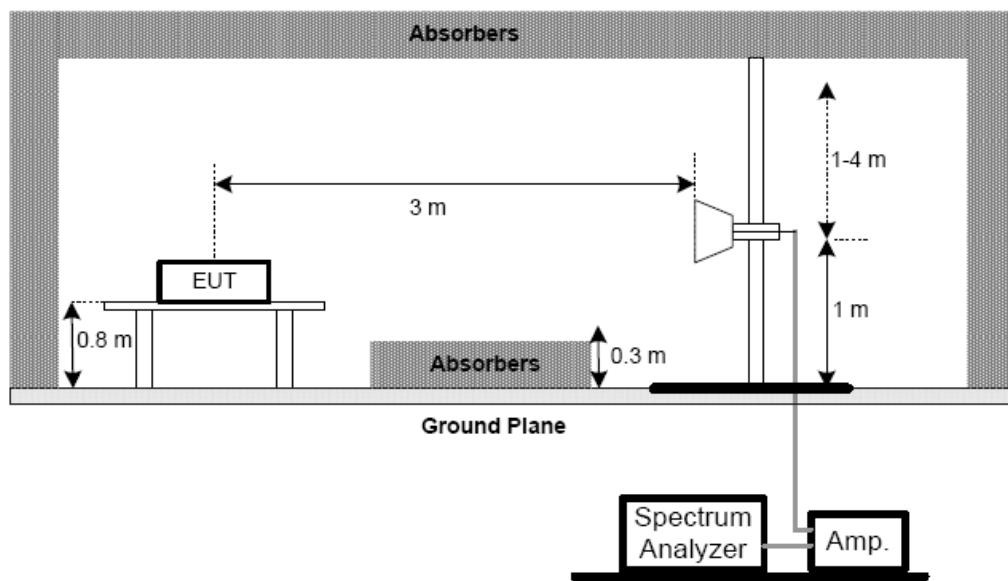
No deviation

4.2.4 TEST SETUP

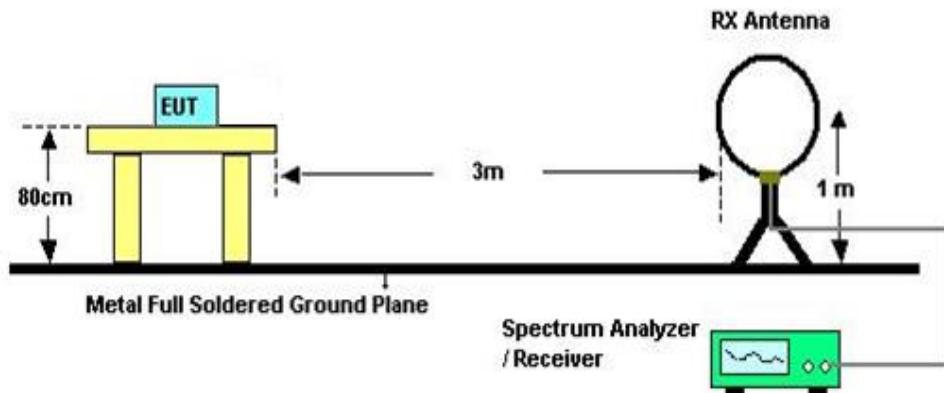
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

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

4.2.6 EUT TEST CONDITIONS

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

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 (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

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

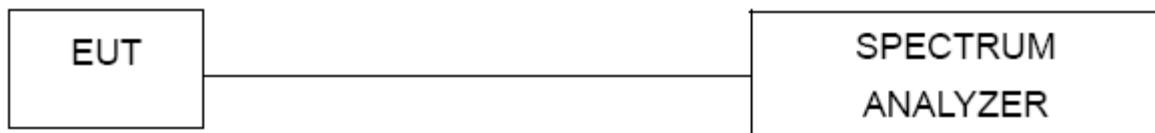
5.1.1 TEST PROCEDURE

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

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

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

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r02.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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

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

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

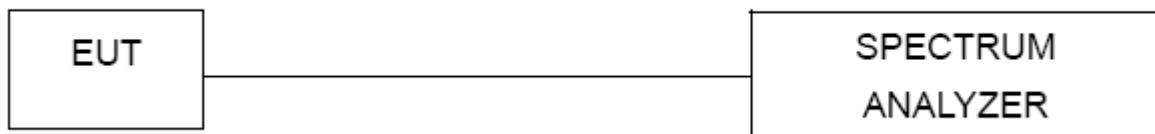
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

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

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

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

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	N/A	C_17	N/A	Mar. 13, 2016
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1 -01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Mar. 28, 2016
3	Receiver	AGILENT	N9038A	MY5213003 9	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 28, 2016
7	Amplifier	Agilent	8449B	3008A02274	Mar. 28, 2016
8	Receiver	AGILENT	N9038A	MY5213003 9	Sep. 30, 2015
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 21, 2016
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 21, 2016
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 28, 2016
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 28, 2016
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 28, 2016

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

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

All calibration period of equipment list is one year.

10. EUT TEST PHOTO**Conducted Measurement Photos**

Radiated Measurement Photos

9KHz to 30MHz



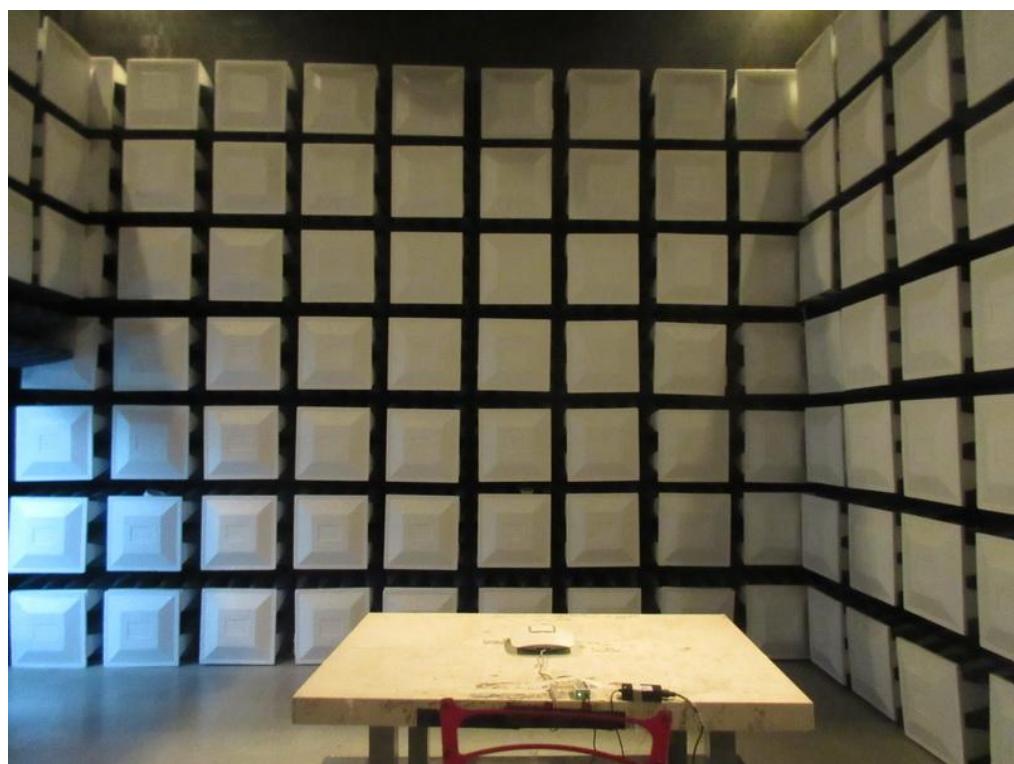
Radiated Measurement Photos

30MHz to 1000MHz



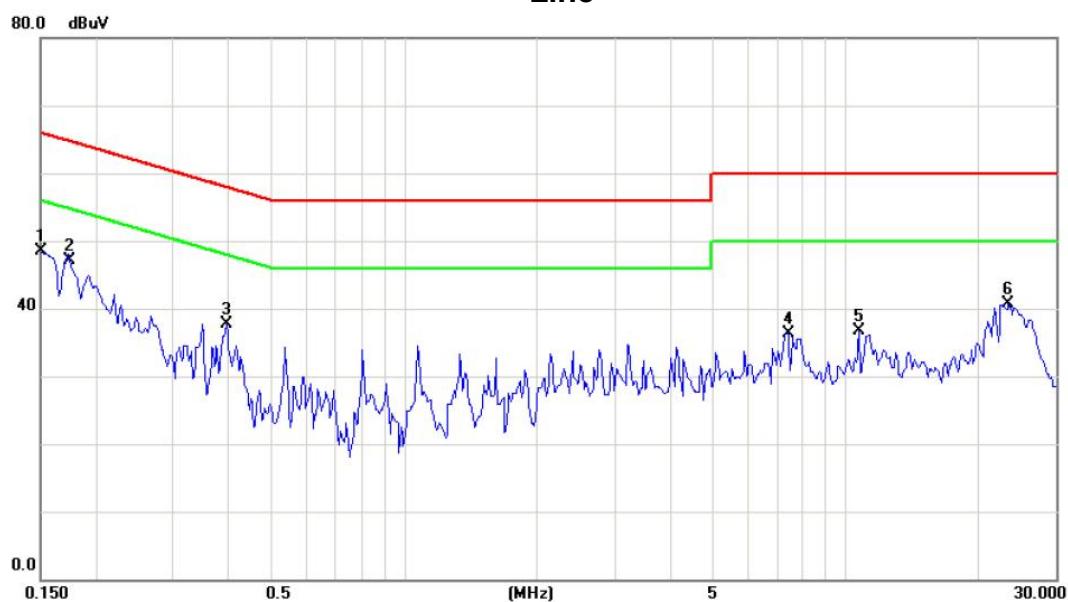
Radiated Measurement Photos

Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

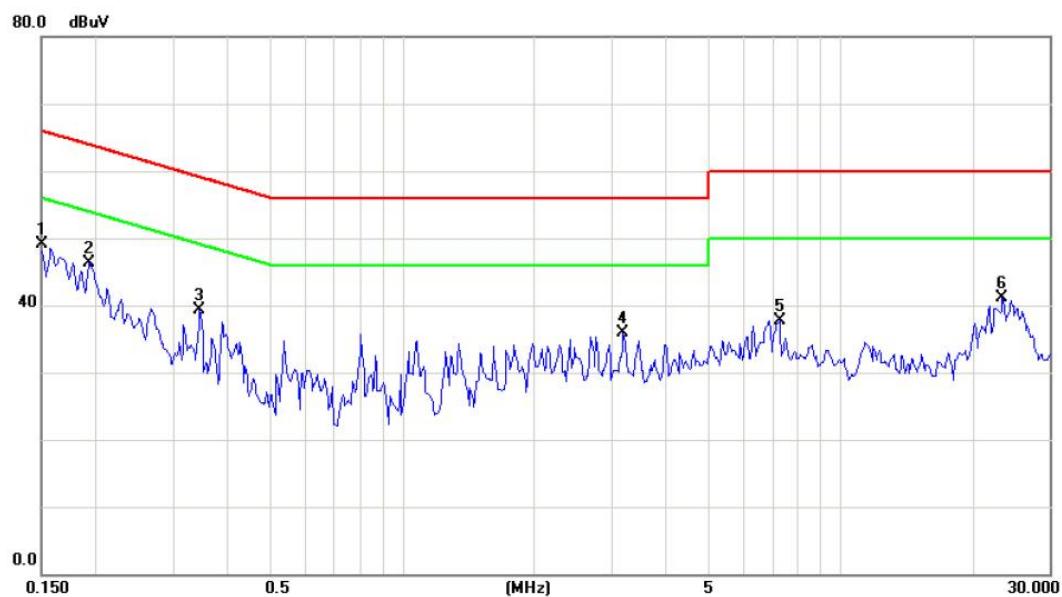
Test Mode : TX MODE

Line

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Margin	Detector	Comment
1		0.1500	38.96	9.49	48.45	66.00	-17.55	peak	
2	*	0.1750	37.70	9.50	47.20	64.72	-17.52	peak	
3		0.3960	28.05	9.60	37.65	57.94	-20.29	peak	
4		7.4257	26.55	9.75	36.30	60.00	-23.70	peak	
5		10.7577	26.89	9.80	36.69	60.00	-23.31	peak	
6		23.5000	30.55	10.09	40.64	60.00	-19.36	peak	

Test Mode : TX MODE

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	39.45	9.60	49.05	66.00	-16.95	peak	
2		0.1930	36.80	9.58	46.38	63.91	-17.53	peak	
3		0.3453	29.78	9.58	39.36	59.07	-19.71	peak	
4		3.2031	26.17	9.65	35.82	56.00	-20.18	peak	
5		7.2656	28.07	9.72	37.79	60.00	-22.21	peak	
6		23.5040	30.77	10.26	41.03	60.00	-18.97	peak	

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

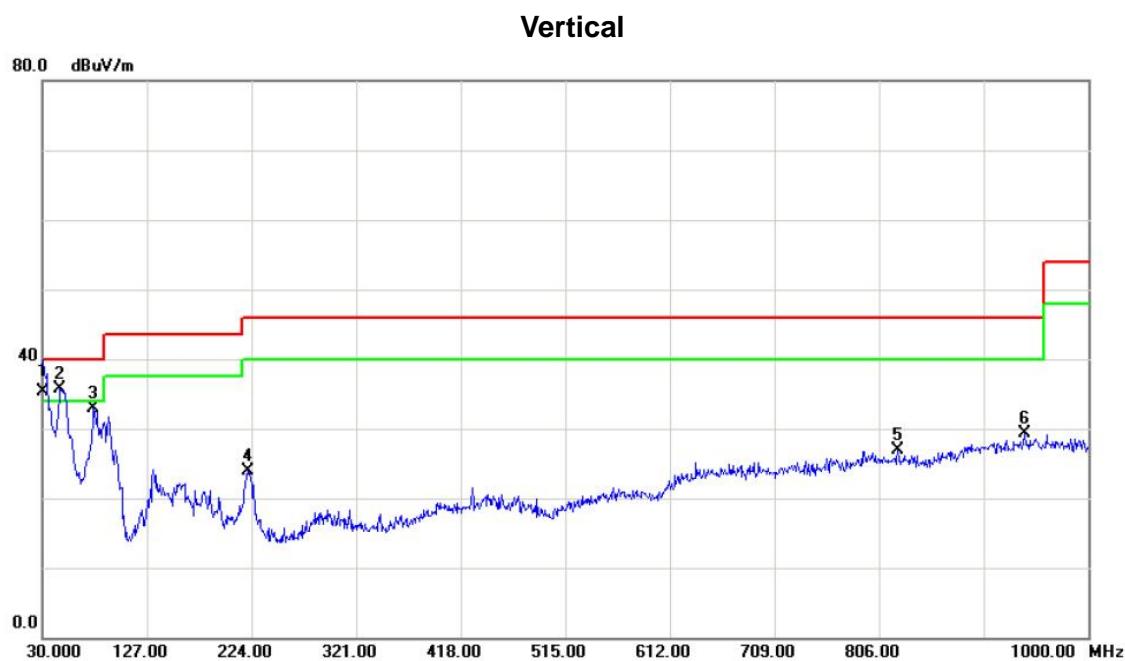
Test Mode:	TX Mode 2412MHz
------------	-----------------

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.0093	0°	14.13	24.98	39.11	128.22	-89.11	AVG
0.0093	0°	15.64	24.98	40.62	148.22	-107.60	PEAK
0.0221	0°	6.47	24.17	30.64	120.72	-90.08	AVG
0.0221	0°	8.02	24.17	32.19	140.72	-108.53	PEAK
0.0317	0°	3.34	23.56	26.90	117.58	-90.68	AVG
0.0317	0°	5.71	23.56	29.27	137.58	-108.31	PEAK
0.0428	0°	1.42	22.86	24.28	114.98	-90.70	AVG
0.0428	0°	2.69	22.86	25.55	134.98	-109.43	PEAK
0.4912	0°	19.86	19.82	39.68	73.78	-34.10	QP
1.7151	0°	22.78	19.53	42.31	69.54	-27.23	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Note
0.0095	90°	13.79	24.30	38.09	128.02	-89.93	AVG
0.0095	90°	14.86	24.30	39.16	148.02	-108.86	PEAK
0.0251	90°	7.35	23.98	31.33	119.61	-88.28	AVG
0.0251	90°	8.74	23.98	32.72	139.61	-106.89	PEAK
0.0318	90°	5.39	23.55	28.94	117.56	-88.61	AVG
0.0318	90°	6.48	23.55	30.03	137.56	-107.52	PEAK
0.0425	90°	1.62	22.88	24.50	115.04	-90.54	AVG
0.0425	90°	2.91	22.88	25.79	135.04	-109.25	PEAK
0.4913	90°	22.58	19.82	42.40	73.78	-31.38	QP
1.7167	90°	23.71	19.53	43.24	69.54	-26.30	QP

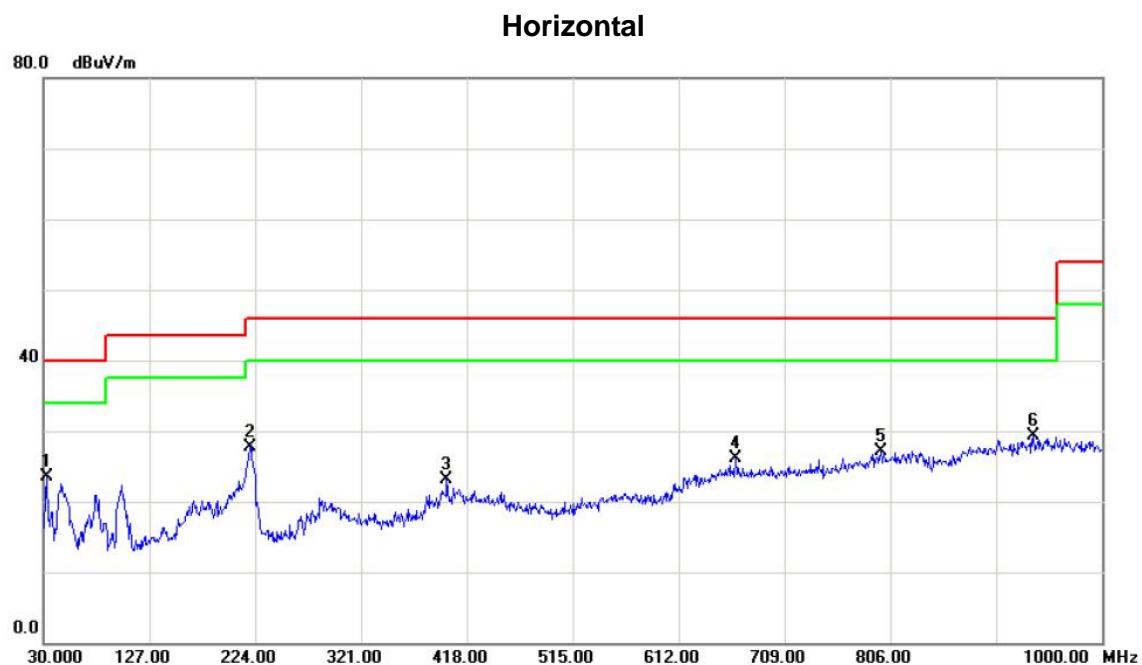
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX B MODE CHANNEL 01



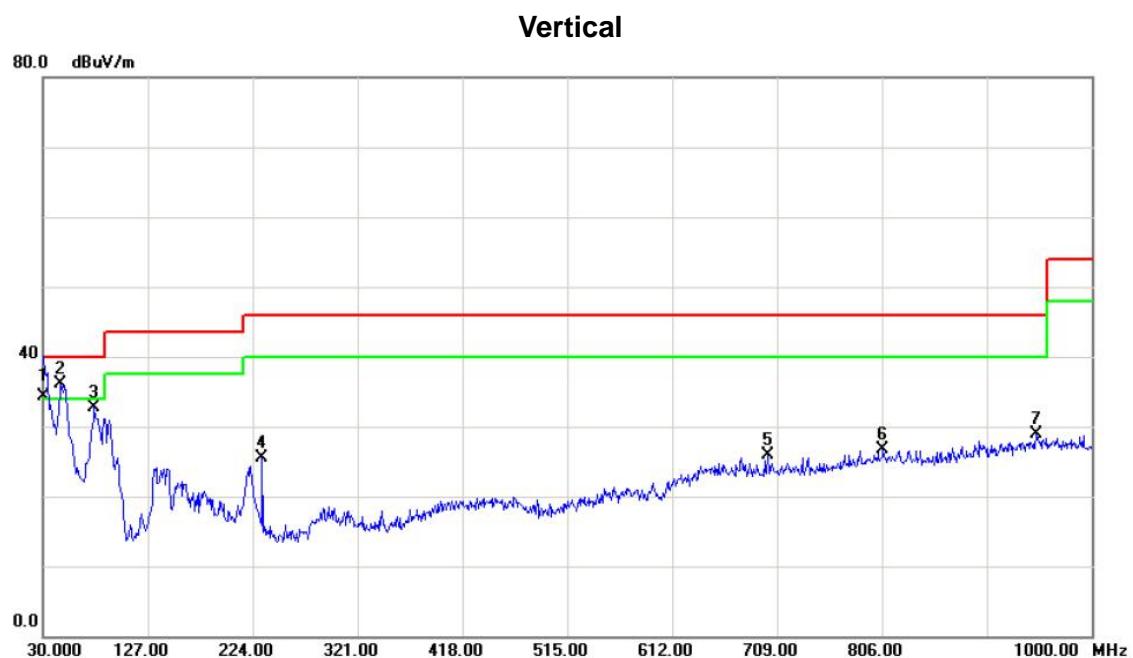
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	!	30.0000	51.14	-15.74	35.40	40.00	-4.60	QP	
2	*	46.4900	49.42	-13.71	35.71	40.00	-4.29	peak	
3		77.5300	49.69	-16.87	32.82	40.00	-7.18	peak	
4		220.1200	38.78	-14.87	23.91	46.00	-22.09	peak	
5		823.4600	29.84	-3.01	26.83	46.00	-19.17	peak	
6		940.8300	29.66	-0.45	29.21	46.00	-16.79	peak	

Test Mode: TX B MODE CHANNEL 01



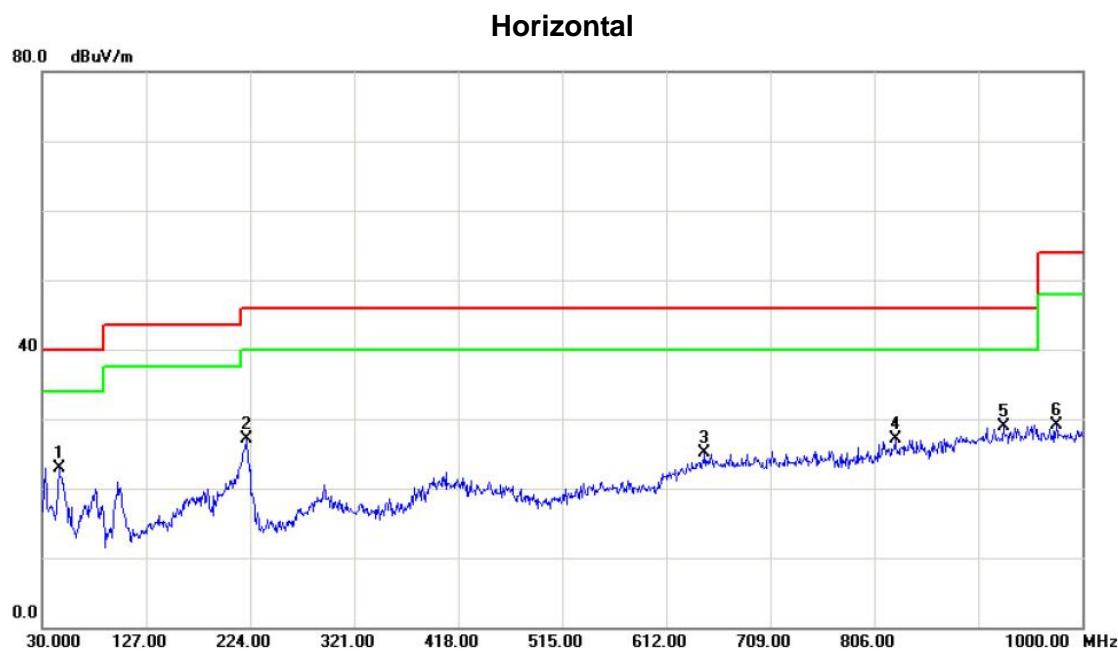
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1	*	32.9100	38.70	-15.17	23.53	40.00	-16.47	peak
2		219.1500	42.60	-14.92	27.68	46.00	-18.32	peak
3		399.5700	32.59	-9.55	23.04	46.00	-22.96	peak
4		664.3800	31.26	-5.09	26.17	46.00	-19.83	peak
5		797.2700	30.17	-2.99	27.18	46.00	-18.82	peak
6		936.9500	29.94	-0.55	29.39	46.00	-16.61	peak

Test Mode: TX B MODE CHANNEL 06



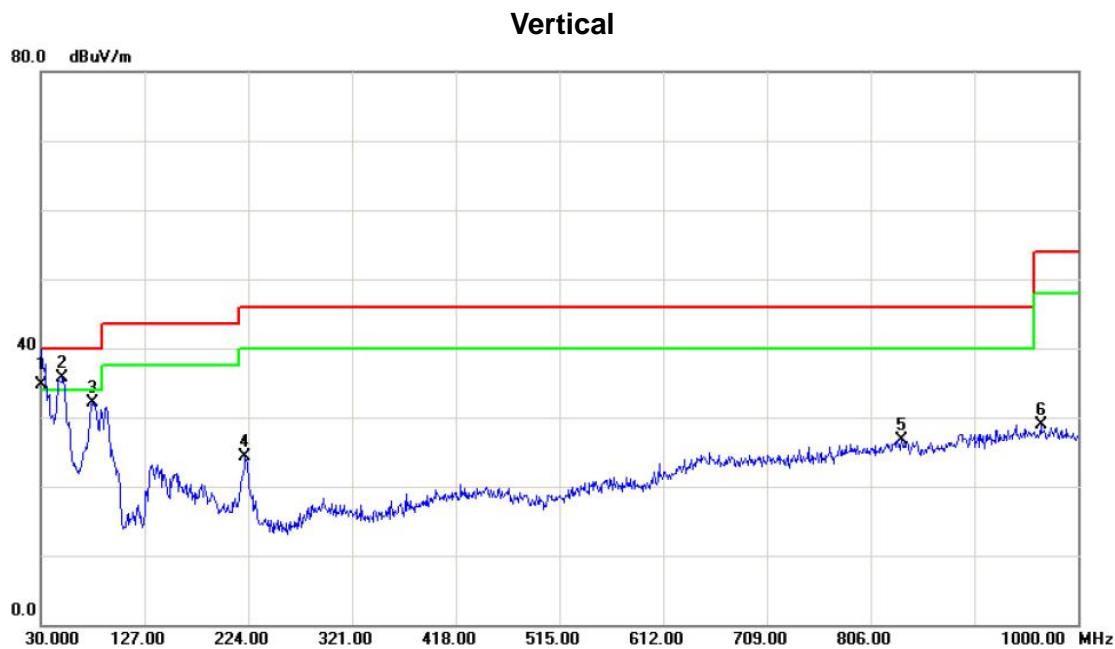
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1	!	30.0000	50.12	-15.74	34.38	40.00	-5.62	QP
2	*	46.4900	49.73	-13.71	36.02	40.00	-3.98	peak
3		77.5300	49.52	-16.87	32.65	40.00	-7.35	peak
4		232.7300	39.67	-14.18	25.49	46.00	-20.51	peak
5		700.2700	30.81	-4.93	25.88	46.00	-20.12	peak
6		806.9700	29.71	-2.92	26.79	46.00	-19.21	peak
7		948.5900	29.20	-0.25	28.95	46.00	-17.05	peak

Test Mode: TX B MODE CHANNEL 06



No.	Mk.	Freq.	Reading	Correct Factor	Measure- ment	Limit	Margin	
			Level				dBuV	dB
1		45.5200	36.50	-13.67	22.83	40.00	-17.17	peak
2		220.1200	41.91	-14.87	27.04	46.00	-18.96	peak
3		647.8900	30.47	-5.27	25.20	46.00	-20.80	peak
4		825.4000	30.21	-3.01	27.20	46.00	-18.80	peak
5	*	926.2800	29.67	-0.83	28.84	46.00	-17.16	peak
6		975.7500	29.50	-0.32	29.18	54.00	-24.82	peak

Test Mode: TX B MODE CHANNEL 11



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	!	30.0000	50.46	-15.74	34.72	40.00	-5.28	QP	
2	*	50.3700	49.81	-14.09	35.72	40.00	-4.28	peak	
3		78.5000	49.09	-16.98	32.11	40.00	-7.89	peak	
4		221.0900	39.03	-14.81	24.22	46.00	-21.78	peak	
5		835.1000	29.77	-3.07	26.70	46.00	-19.30	peak	
6		965.0800	29.23	-0.27	28.96	54.00	-25.04	peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

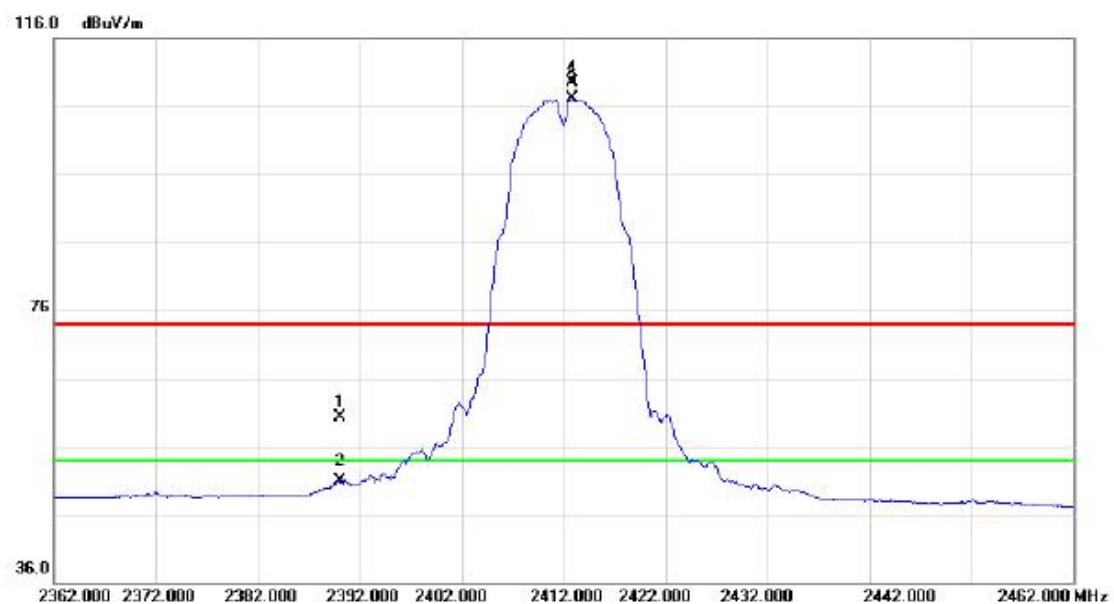


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1		45.5200	35.85	-13.67	22.18	40.00	-17.82	peak
2		220.1200	41.51	-14.87	26.64	46.00	-19.36	peak
3		401.5100	31.28	-9.50	21.78	46.00	-24.22	peak
4		675.0500	29.94	-5.04	24.90	46.00	-21.10	peak
5		818.6100	29.66	-2.98	26.68	46.00	-19.32	peak
6	*	953.4400	29.56	-0.23	29.33	46.00	-16.67	peak

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

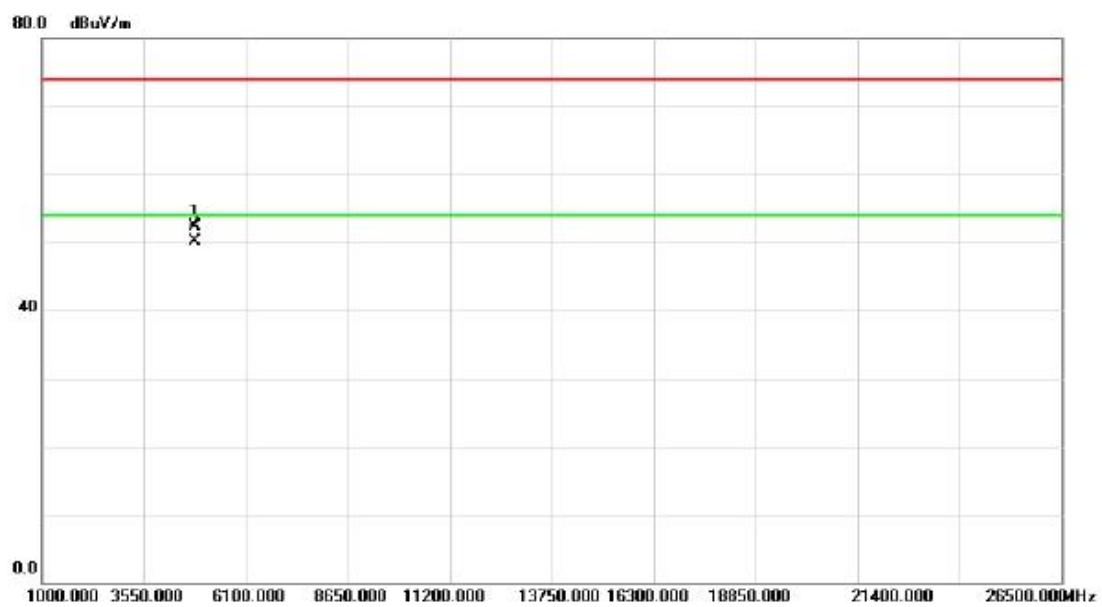
Orthogonal Axis : X

Test Mode : TX B MODE 2412MHz

Vertical

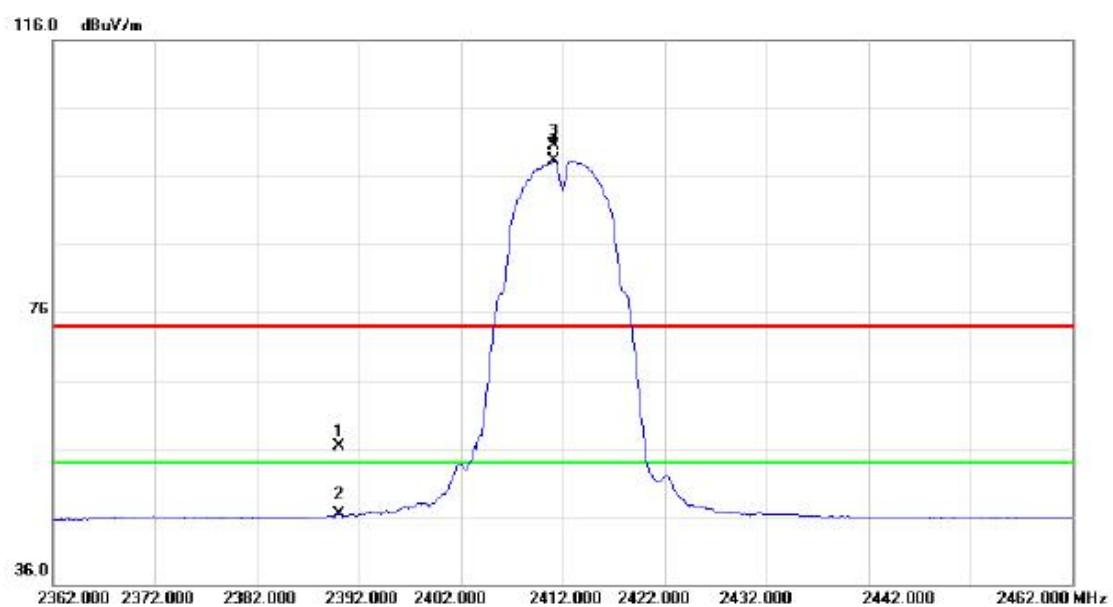
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	28.43	31.88	60.31	74.00	-13.69	peak	
2		2390.000	18.99	31.88	50.87	54.00	-3.13	AVG	
3	*	2412.800	75.10	31.91	107.01	54.00	53.01	AVG	No Limit
4	X	2412.900	77.67	31.91	109.58	74.00	35.58	peak	No Limit

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

Vertical

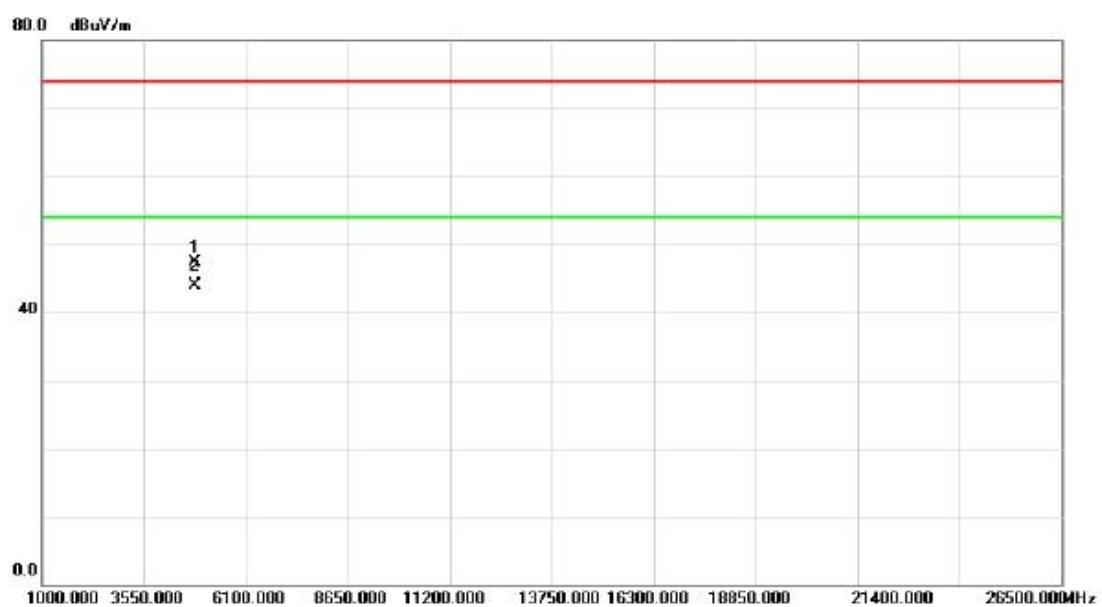
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.098	48.71	3.62	52.33	74.00	-21.67	peak	
2	*	4824.098	46.53	3.62	50.15	54.00	-3.85	AVG	

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.34	31.88	56.22	74.00	-17.78	peak	
2		2390.000	14.40	31.88	46.28	54.00	-7.72	AVG	
3	X	2411.200	68.52	31.91	100.43	74.00	26.43	peak	No Limit
4	*	2411.200	66.35	31.91	98.26	54.00	44.26	AVG	No Limit

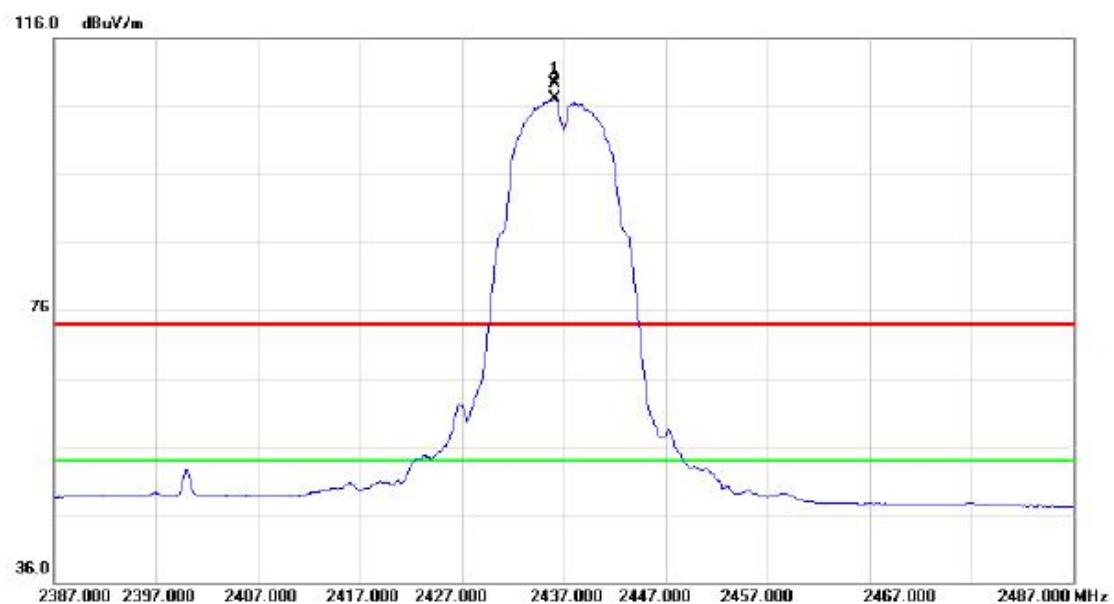
Orthogonal Axis :	X
Test Mode :	TX B MODE 2412MHz

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.930	43.61	3.62	47.23	74.00	-26.77	peak	
2	*	4823.930	40.27	3.62	43.89	54.00	-10.11	AVG	

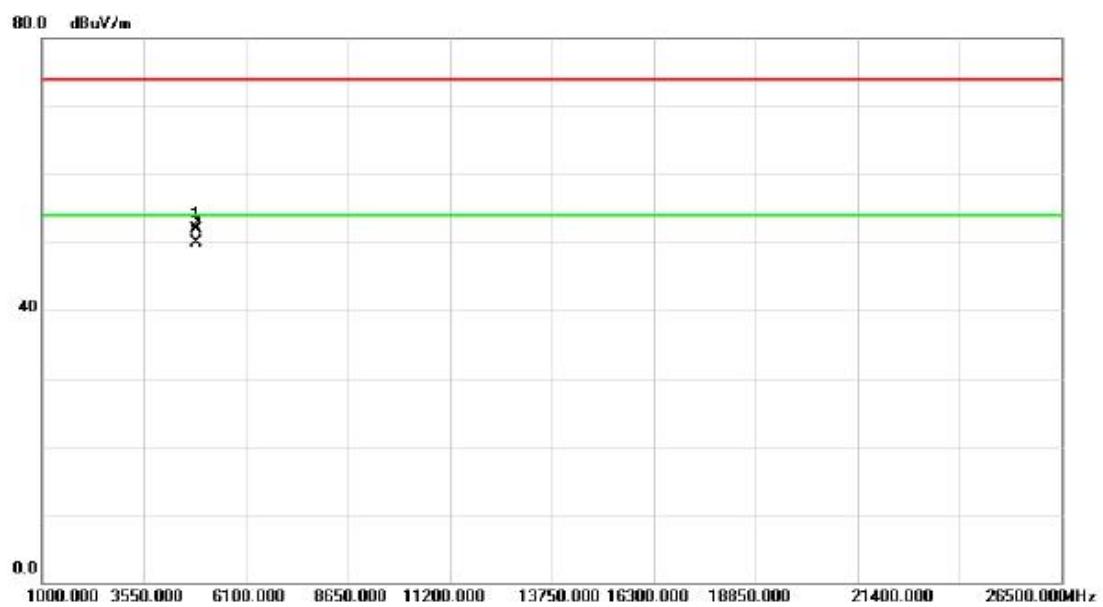
Orthogonal Axis : X

Test Mode : TX B MODE 2437MHz

Vertical

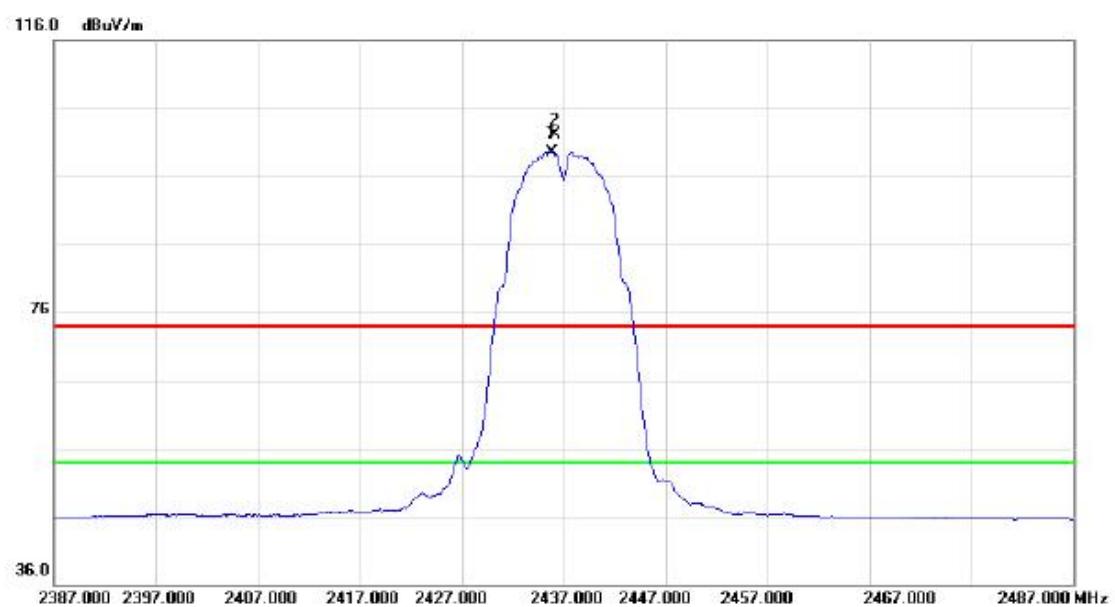
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2436.200	77.42	31.94	109.36	74.00	35.36	peak	No Limit
2	*	2436.200	75.22	31.94	107.16	54.00	53.16	AVG	No Limit

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

Vertical

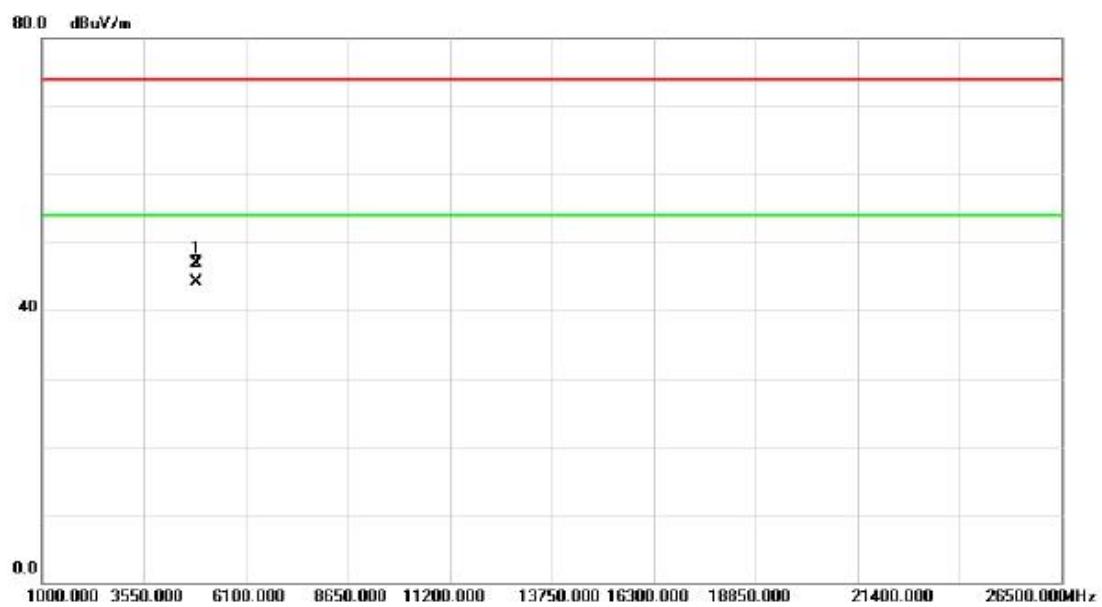
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.110	48.17	3.72	51.89	74.00	-22.11	peak	
2	*	4874.110	46.09	3.72	49.81	54.00	-4.19	AVG	

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2435.800	67.66	31.94	99.60	54.00	45.60	AVG	No Limit
2	X	2436.100	70.24	31.94	102.18	74.00	28.18	peak	No Limit

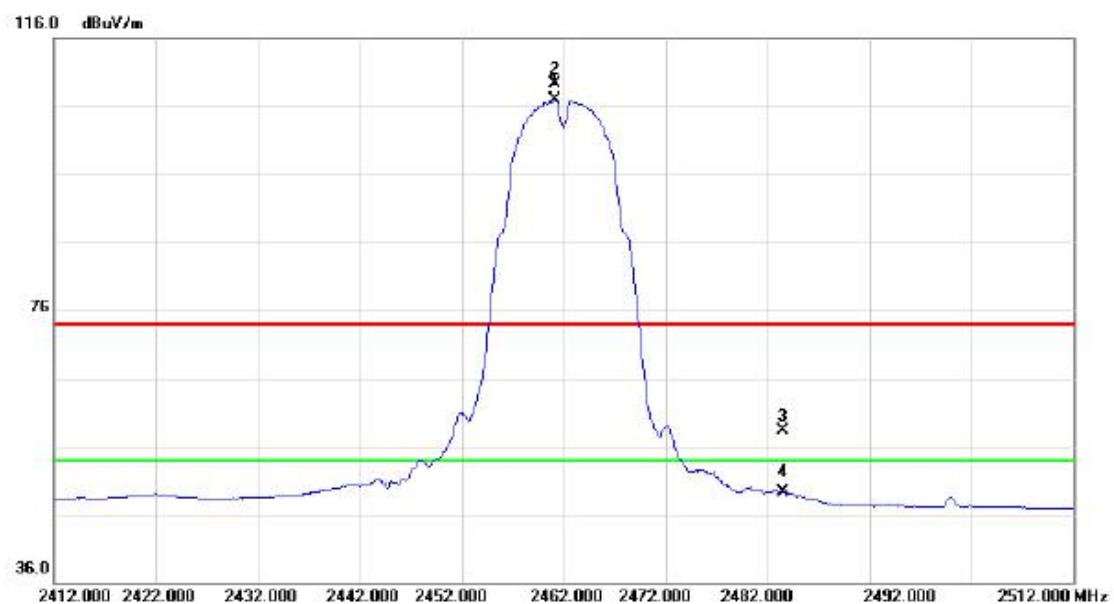
Orthogonal Axis :	X
Test Mode :	TX B MODE 2437MHz

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.000	43.21	3.72	46.93	74.00	-27.07	peak	
2	*	4874.000	40.36	3.72	44.08	54.00	-9.92	AVG	

Orthogonal Axis : X

Test Mode : TX B MODE 2462MHz

Vertical

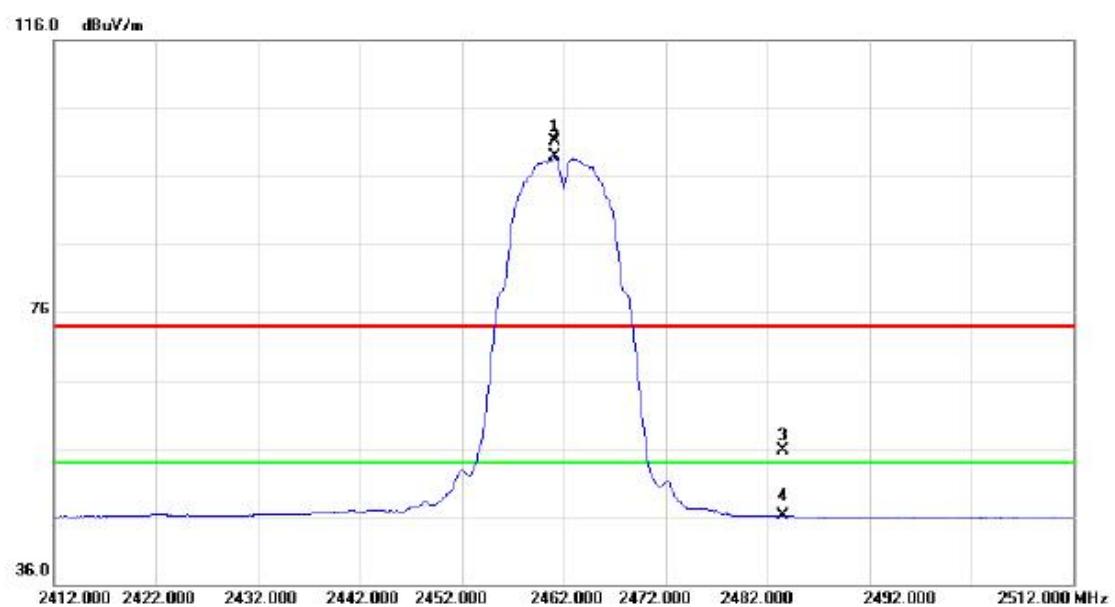
No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit	Margin	Detector	Comment
			dBuV	dB	dBuV/m				
1	*	2461.100	74.96	31.98	106.94	54.00	52.94	AVG	No Limit
2	X	2461.200	77.23	31.98	109.21	74.00	35.21	peak	No Limit
3		2483.500	26.39	32.01	58.40	74.00	-15.60	peak	
4		2483.500	17.36	32.01	49.37	54.00	-4.63	AVG	

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

Vertical

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.210	48.95	3.80	52.75	74.00	-21.25	peak	
2	*	4924.210	46.31	3.80	50.11	54.00	-3.89	AVG	

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1	X	2461.200	69.14	31.98	101.12	74.00	27.12	peak No Limit
2	*	2461.200	66.90	31.98	98.88	54.00	44.88	AVG No Limit
3		2483.500	23.64	32.01	55.65	74.00	-18.35	peak
4		2483.500	14.14	32.01	46.15	54.00	-7.85	AVG

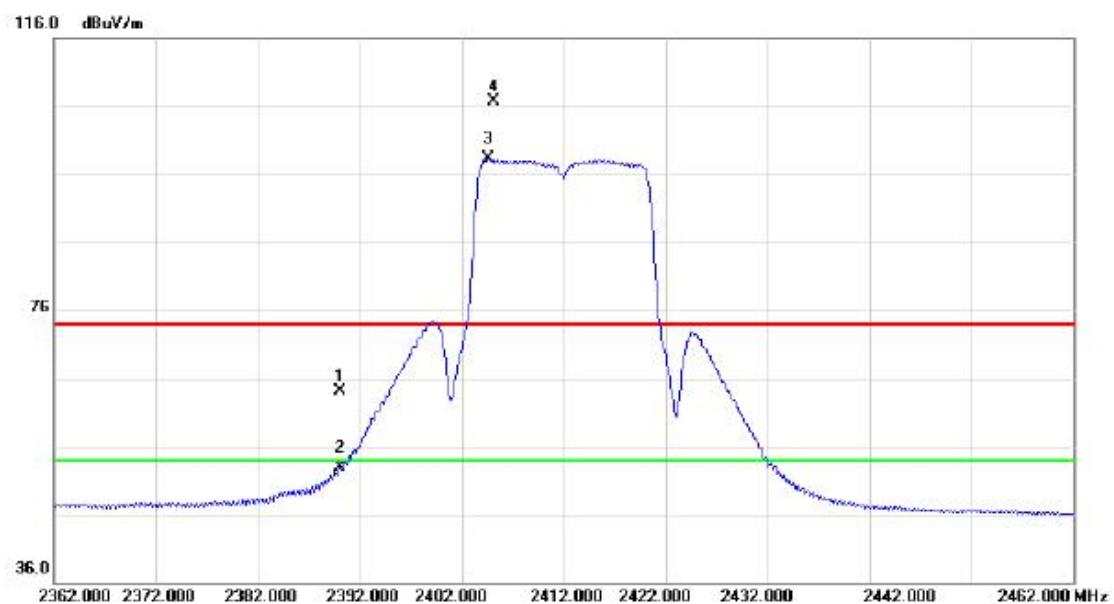
Orthogonal Axis :	X
Test Mode :	TX B MODE 2462MHz

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.870	42.89	3.80	46.69	74.00	-27.31	peak	
2	*	4923.870	40.34	3.80	44.14	54.00	-9.86	AVG	

Orthogonal Axis : X

Test Mode : TX G MODE 2412MHz

Vertical

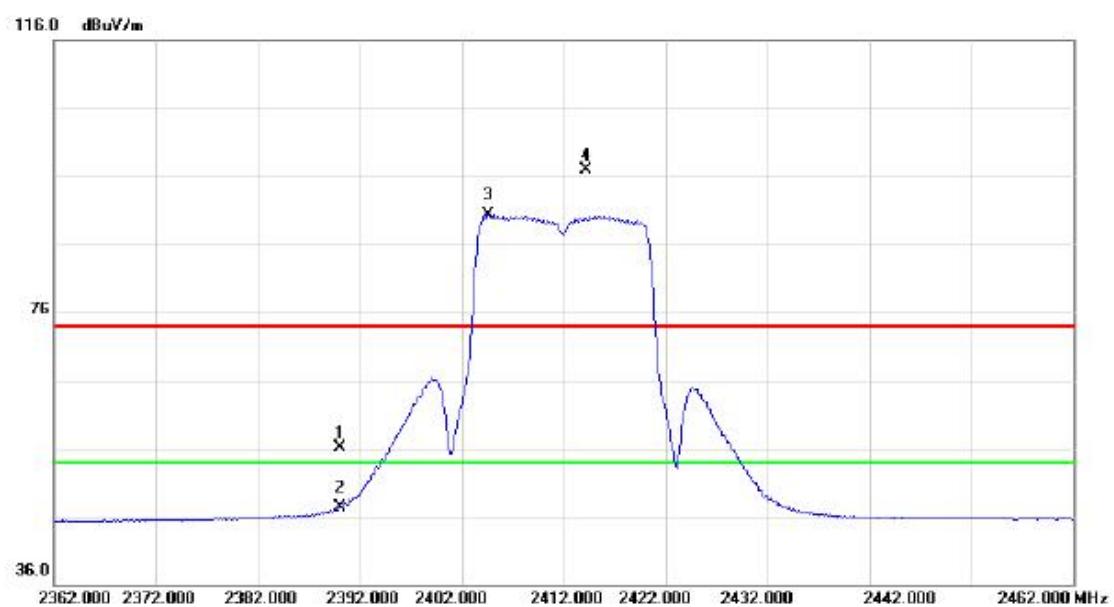
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	32.18	31.88	64.06	74.00	-9.94	peak	
2		2390.000	20.98	31.88	52.86	54.00	-1.14	AVG	
3	*	2404.600	66.42	31.89	98.31	54.00	44.31	AVG	No Limit
4	X	2405.200	74.85	31.90	106.75	74.00	32.75	peak	No Limit

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

Vertical

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.070	41.98	3.62	45.60	74.00	-28.40	peak	
2	*	4824.070	32.86	3.62	36.48	54.00	-17.52	AVG	

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.28	31.88	56.16	74.00	-17.84	peak	
2		2390.000	15.51	31.88	47.39	54.00	-6.61	AVG	
3	*	2404.600	58.48	31.89	90.37	54.00	36.37	AVG	No Limit
4	X	2414.200	64.93	31.91	96.84	74.00	22.84	peak	No Limit

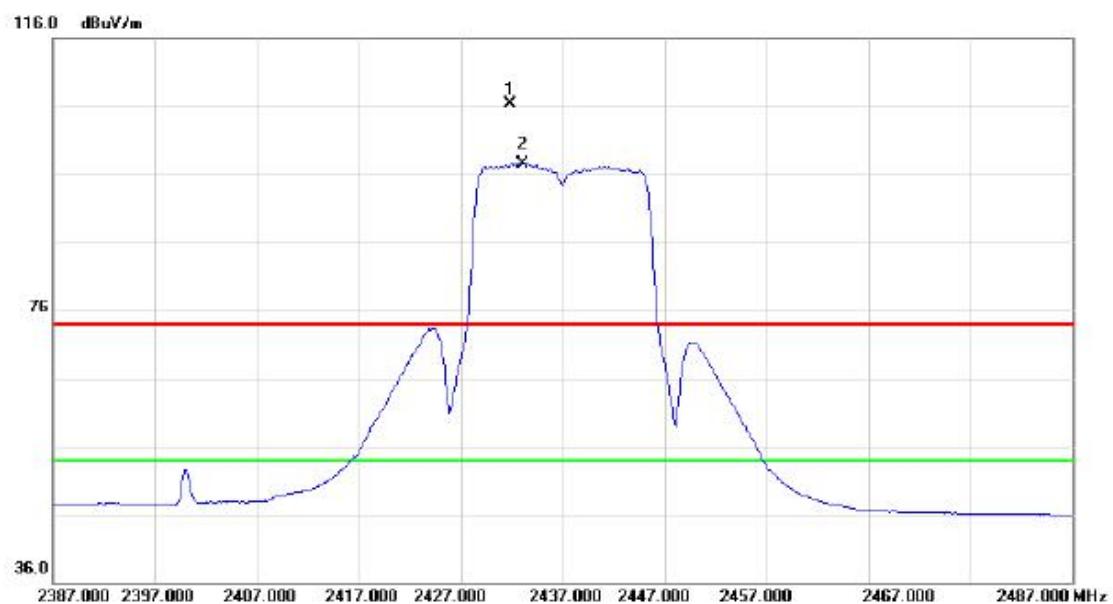
Orthogonal Axis :	X
Test Mode :	TX G MODE 2412MHz

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.790	36.94	3.62	40.56	74.00	-33.44	peak	
2	*	4823.790	27.02	3.62	30.64	54.00	-23.36	AVG	

Orthogonal Axis : X

Test Mode : TX G MODE 2437MHz

Vertical

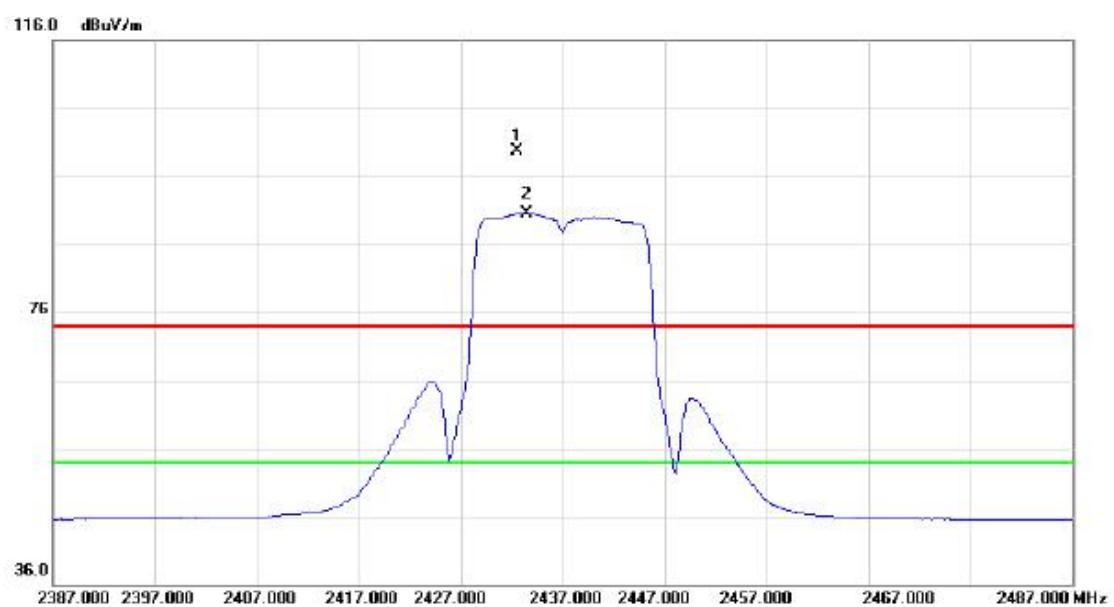
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	X	2431.900	74.31	31.94	106.25	74.00	32.25	peak No Limit
2	*	2433.100	65.65	31.94	97.59	54.00	43.59	AVG No Limit

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

Vertical

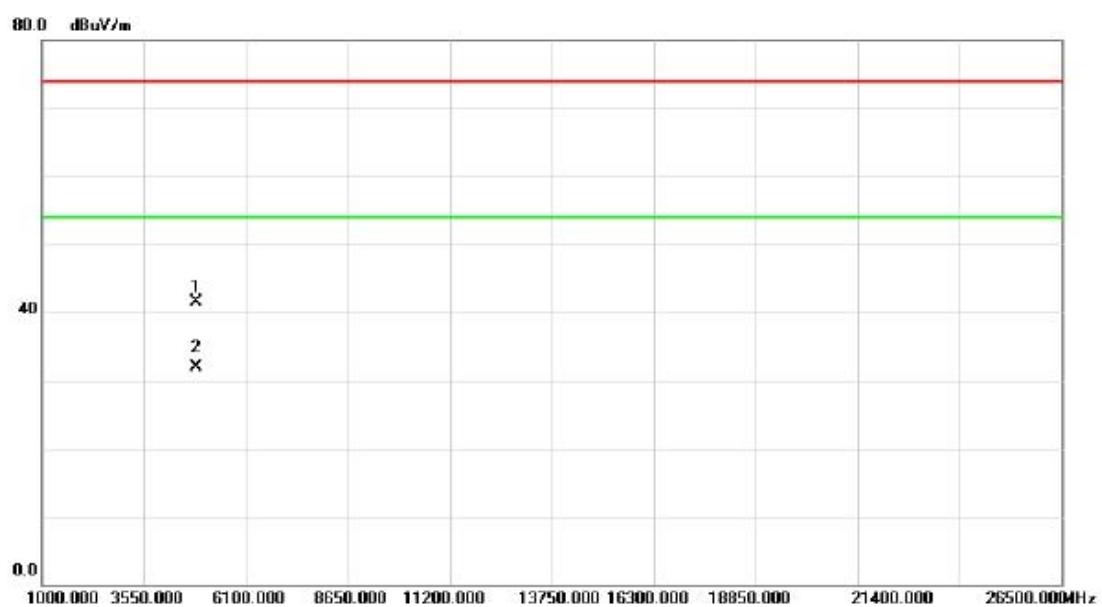
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.680	42.64	3.72	46.36	74.00	-27.64	peak	
2	*	4873.680	33.01	3.72	36.73	54.00	-17.27	AVG	

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1	X	2432.500	67.74	31.94	99.68	74.00	25.68	peak No Limit
2	*	2433.400	58.63	31.94	90.57	54.00	36.57	AVG No Limit

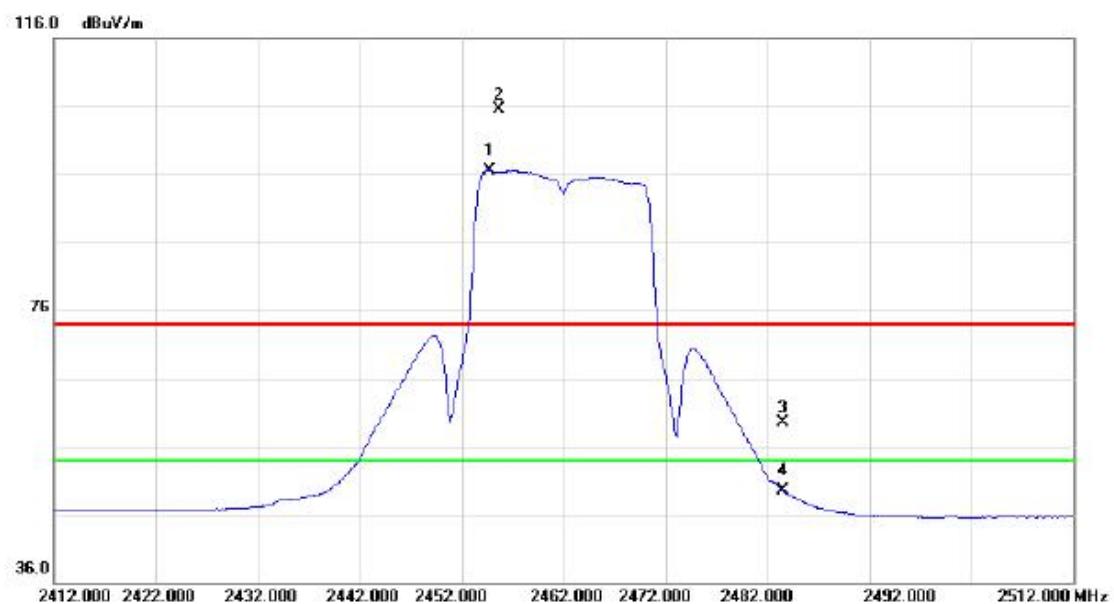
Orthogonal Axis :	X
Test Mode :	TX G MODE 2437MHz

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.250	37.85	3.72	41.57	74.00	-32.43	peak	
2	*	4873.250	28.14	3.72	31.86	54.00	-22.14	AVG	

Orthogonal Axis : X

Test Mode : TX G MODE 2462MHz

Vertical

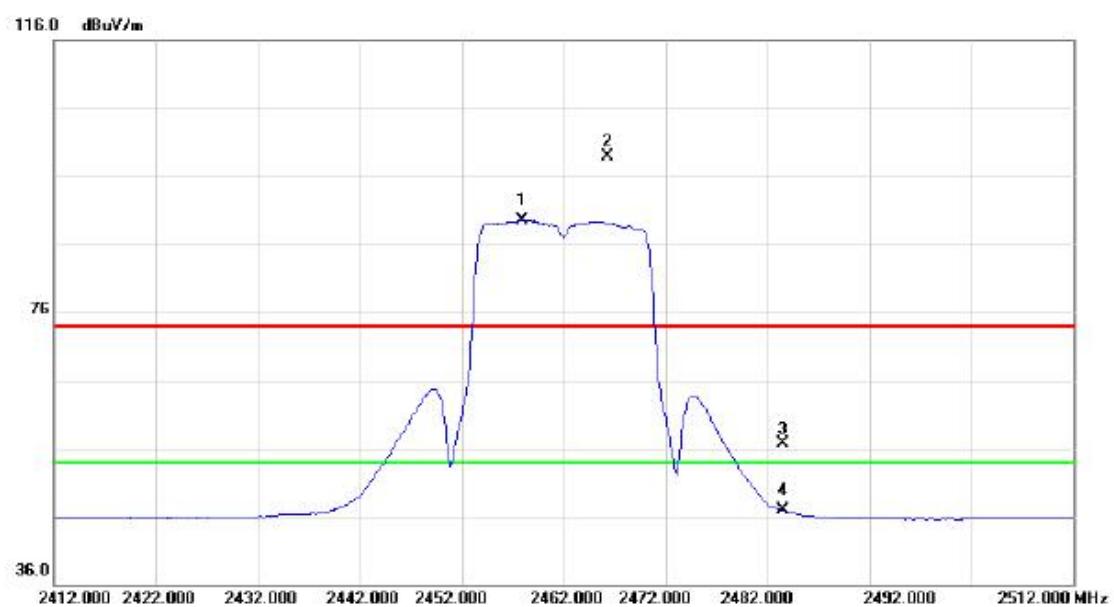
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB	Detector	Comment
1	*	2454.700	64.61	31.96	96.57	54.00	42.57	AVG No Limit
2	X	2455.700	73.57	31.96	105.53	74.00	31.53	peak No Limit
3		2483.500	27.53	32.01	59.54	74.00	-14.46	peak
4		2483.500	17.57	32.01	49.58	54.00	-4.42	AVG

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

Vertical

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.000	41.27	3.80	45.07	74.00	-28.93	peak	
2	*	4924.000	33.25	3.80	37.05	54.00	-16.95	AVG	

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2457.900	57.58	31.98	89.56	54.00	35.56	AVG	No Limit
2	X	2466.300	66.97	31.98	98.95	74.00	24.95	peak	No Limit
3		2483.500	24.62	32.01	56.63	74.00	-17.37	peak	
4		2483.500	14.91	32.01	46.92	54.00	-7.08	AVG	

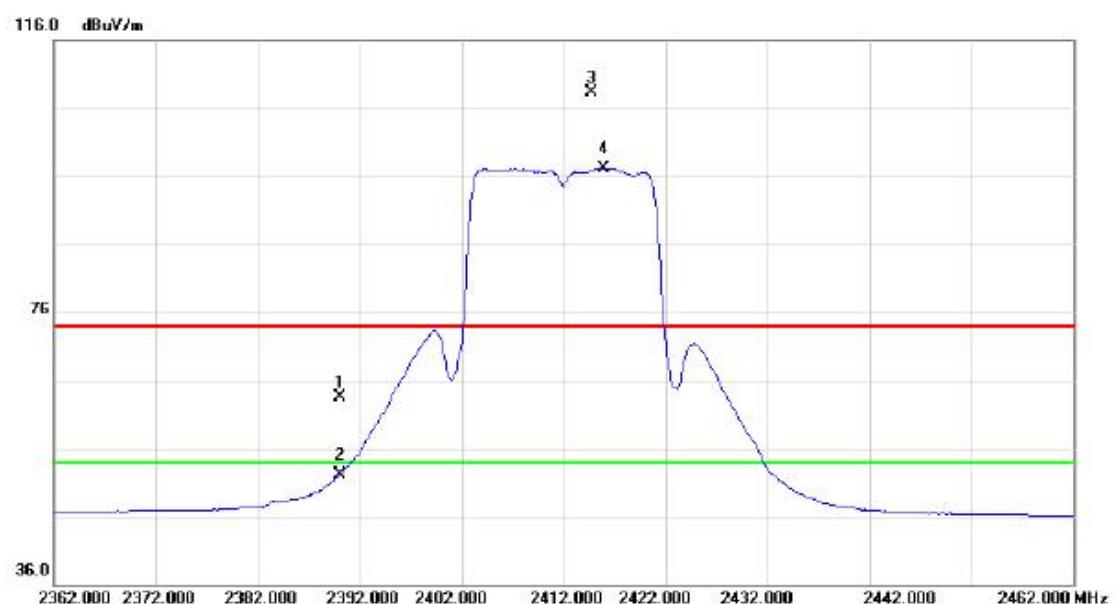
Orthogonal Axis :	X
Test Mode :	TX G MODE 2462MHz

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4924.190	38.71	3.80	42.51	74.00	-31.49	peak	
2	*	4924.190	29.14	3.80	32.94	54.00	-21.06	AVG	

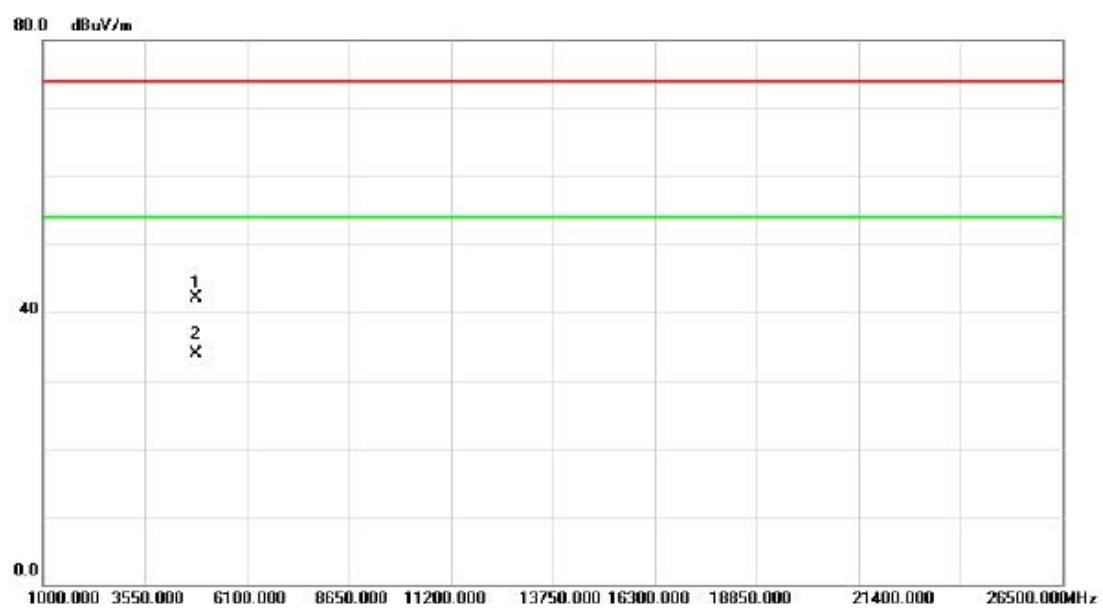
Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

Vertical

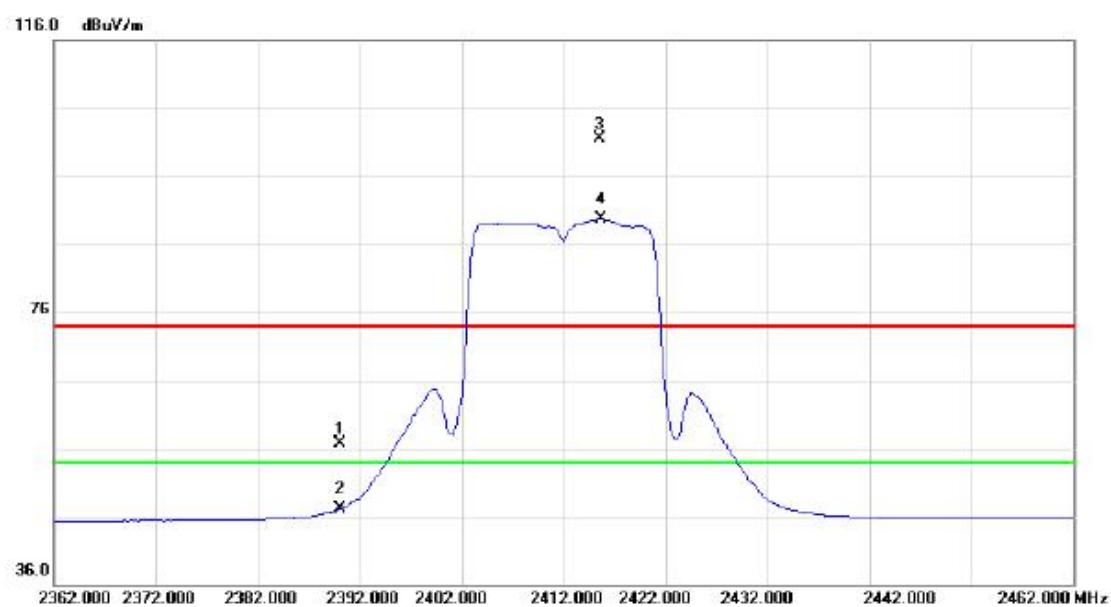
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2390.000	31.62	31.88	63.50	74.00	-10.50	peak	
2		2390.000	20.14	31.88	52.02	54.00	-1.98	Avg	
3	X	2414.700	76.40	31.91	108.31	74.00	34.31	peak	No Limit
4	*	2415.900	65.27	31.91	97.18	54.00	43.18	Avg	No Limit

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

Vertical

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4823.800	38.46	3.62	42.08	74.00	-31.92	peak	
2	*	4823.800	30.35	3.62	33.97	54.00	-20.03	AVG	

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

Horizontal

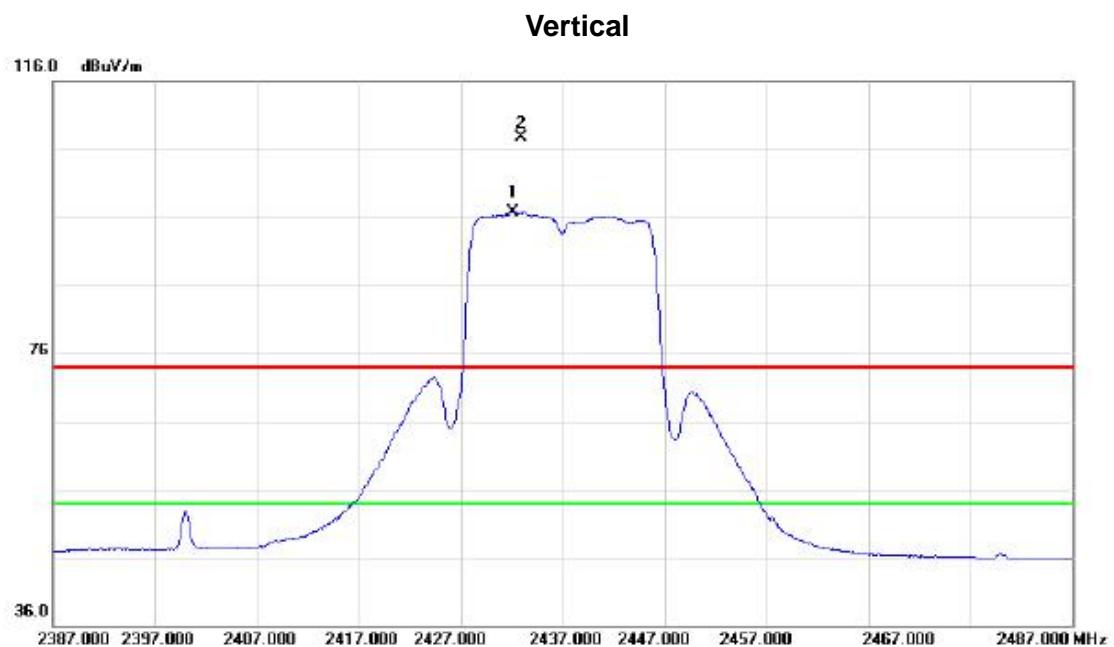
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.83	31.88	56.71	74.00	-17.29	peak	
2		2390.000	15.17	31.88	47.05	54.00	-6.95	AVG	
3	X	2415.500	69.50	31.91	101.41	74.00	27.41	peak	No Limit
4	*	2415.700	57.86	31.91	89.77	54.00	35.77	AVG	No Limit

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

Horizontal

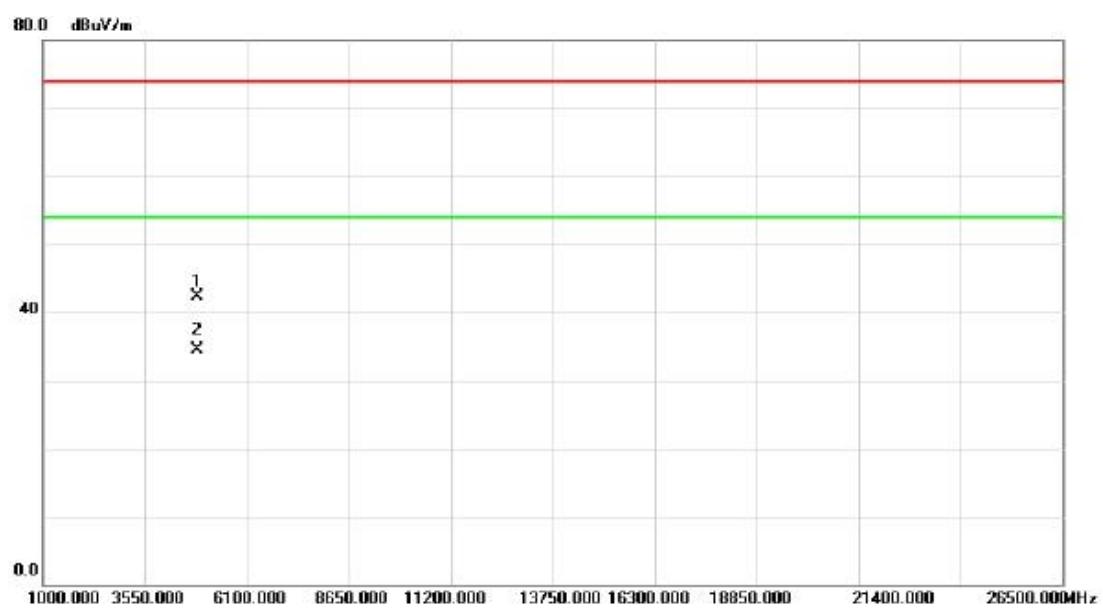
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4824.210	35.71	3.62	39.33	74.00	-34.67	peak	
2	*	4824.210	26.45	3.62	30.07	54.00	-23.93	AVG	

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



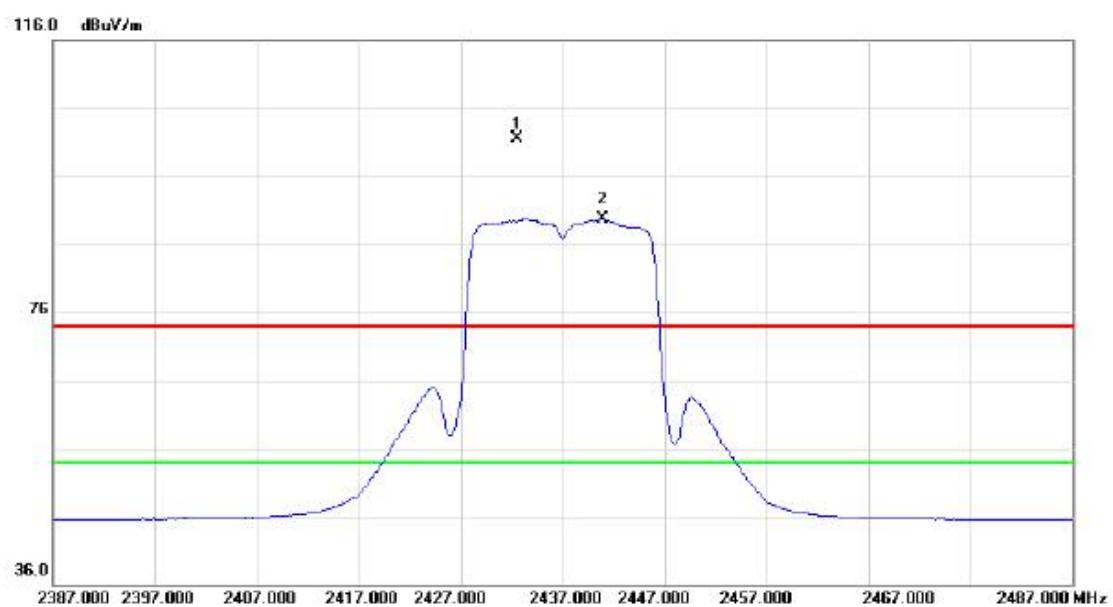
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2432.200	64.82	31.94	96.76	54.00	42.76	AVG	No Limit
2	X	2432.900	75.73	31.94	107.67	74.00	33.67	peak	No Limit

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

Vertical

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.100	38.56	3.72	42.28	74.00	-31.72	peak	
2	*	4874.100	30.87	3.72	34.59	54.00	-19.41	AVG	

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

Horizontal

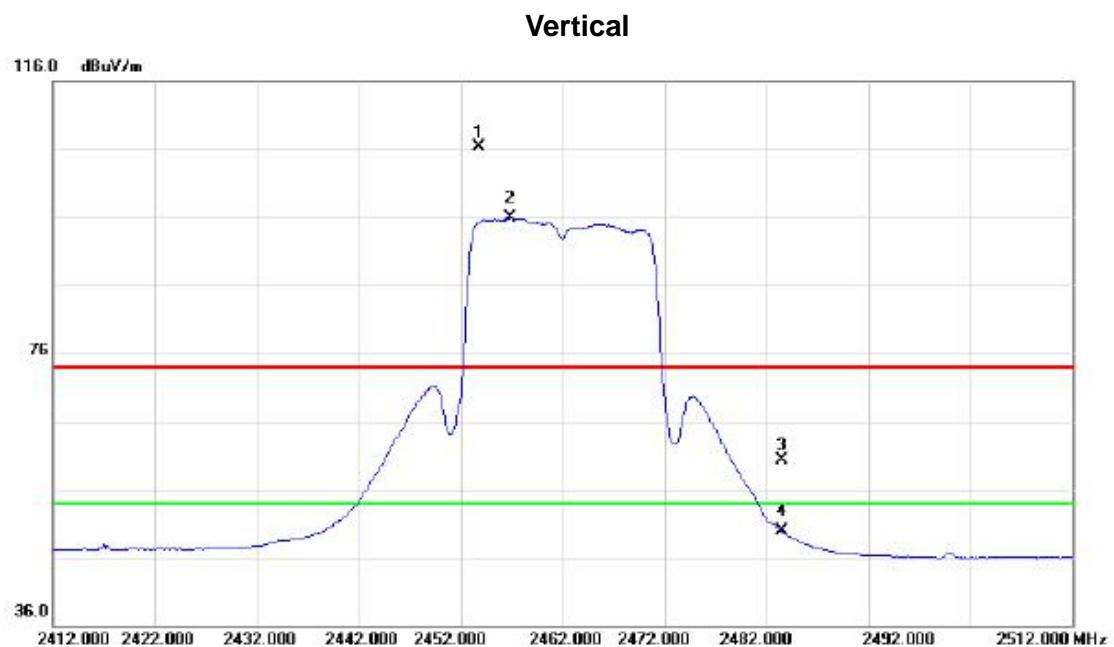
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1	X	2432.600	69.49	31.94	101.43	74.00	27.43	peak No Limit
2	*	2440.900	57.74	31.95	89.69	54.00	35.69	AVG No Limit

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.900	35.27	3.72	38.99	74.00	-35.01	peak	
2	*	4873.900	26.15	3.72	29.87	54.00	-24.13	AVG	

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



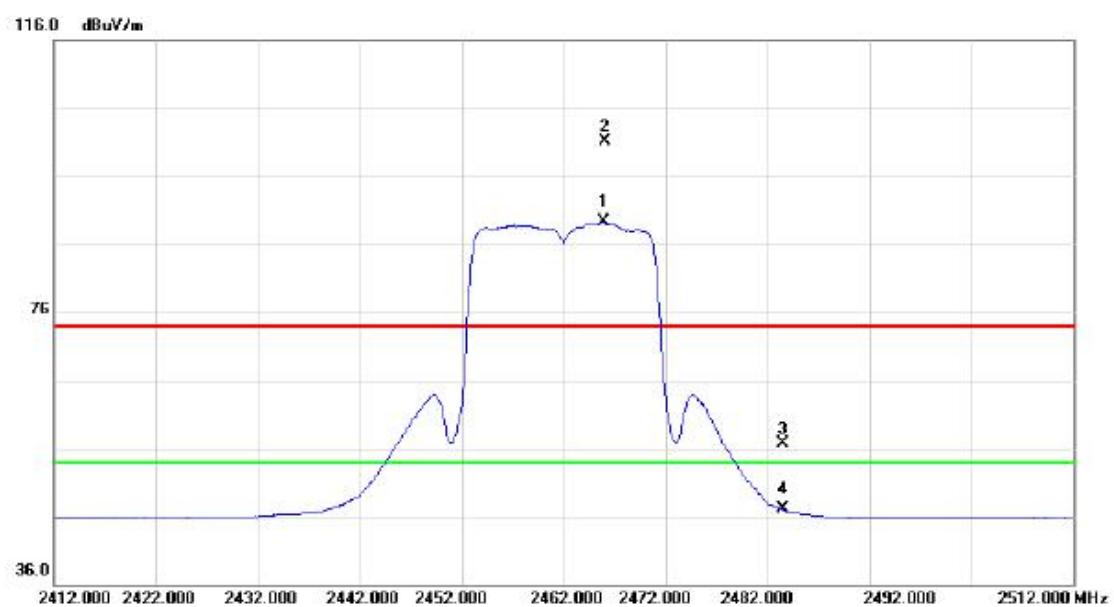
No.	Mk.	Freq. MHz	Reading Level	Correct Factor	Measure- ment	Limit dBuV/m	Margin dB	Detector	Comment
			dBuV	dB	dBuV/m				
1	X	2453.800	74.44	31.96	106.40	74.00	32.40	peak	No Limit
2	*	2456.900	63.92	31.98	95.90	54.00	41.90	AVG	No Limit
3		2483.500	28.21	32.01	60.22	74.00	-13.78	peak	
4		2483.500	17.84	32.01	49.85	54.00	-4.15	AVG	

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

Vertical

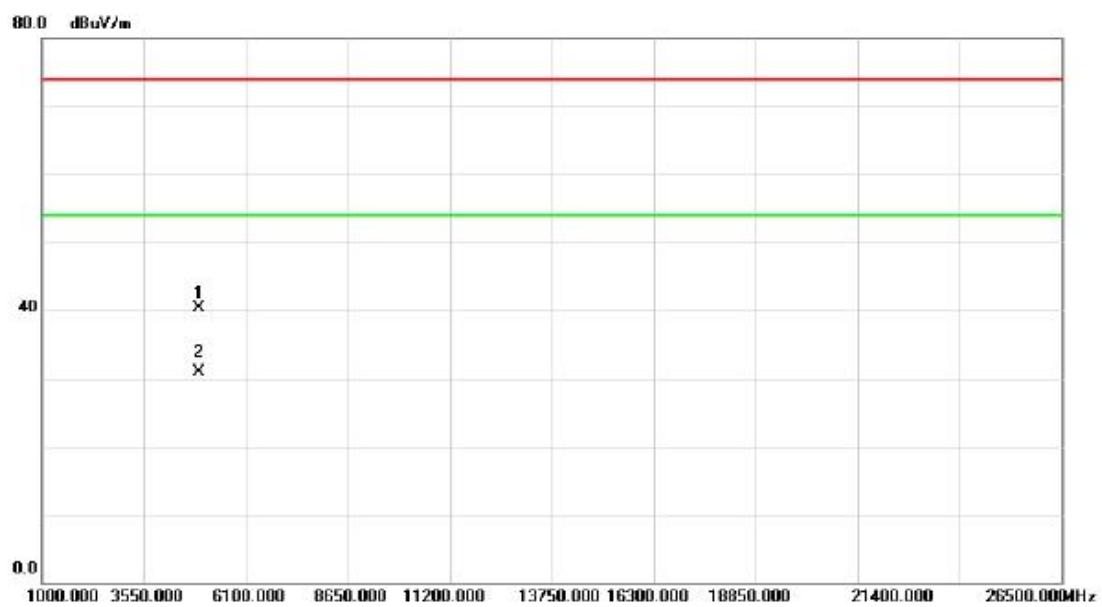
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.800	40.59	3.80	44.39	74.00	-29.61	peak	
2	*	4923.800	31.31	3.80	35.11	54.00	-18.89	AVG	

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

Horizontal

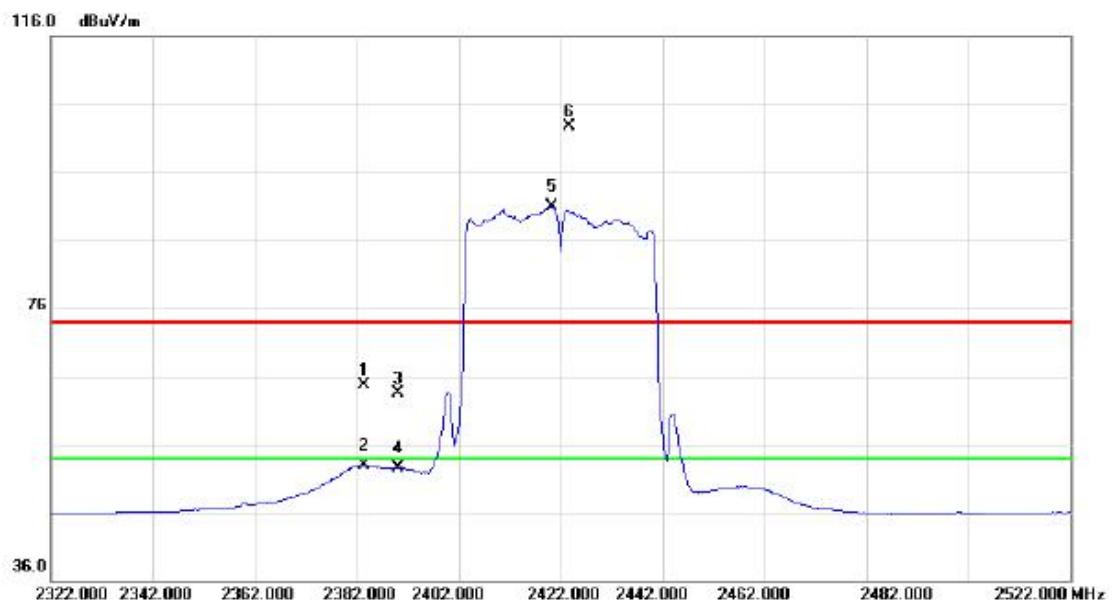
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2465.900	57.31	31.98	89.29	54.00	35.29	AVG	No Limit
2	X	2466.000	69.16	31.98	101.14	74.00	27.14	peak	No Limit
3		2483.500	24.72	32.01	56.73	74.00	-17.27	peak	
4		2483.500	15.06	32.01	47.07	54.00	-6.93	AVG	

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

Horizontal

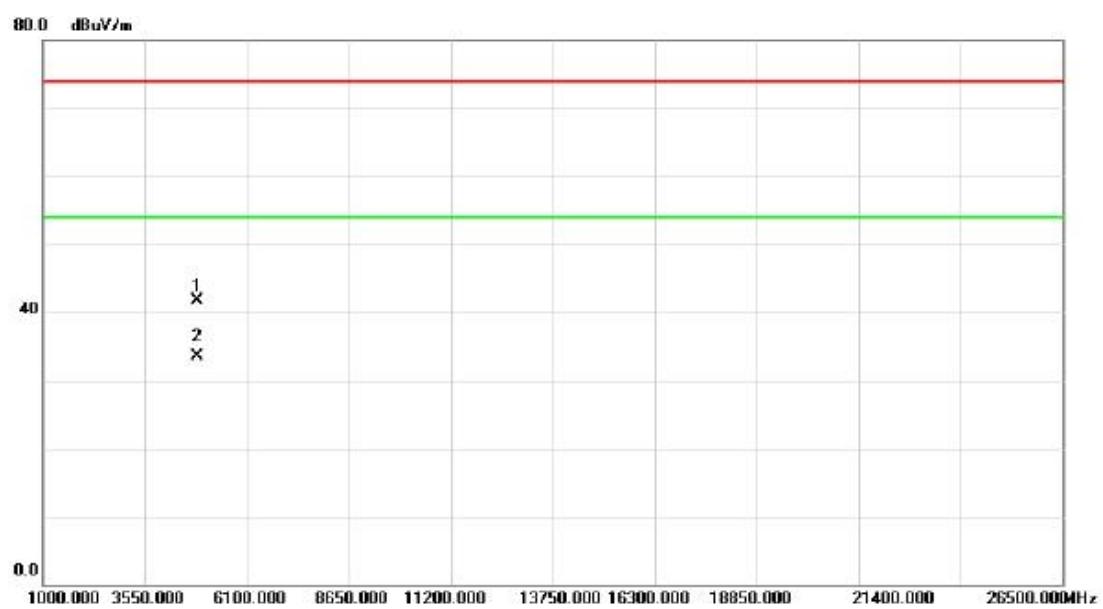
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4923.950	36.50	3.80	40.30	74.00	-33.70	peak	
2	*	4923.950	27.03	3.80	30.83	54.00	-23.17	AVG	

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

Vertical

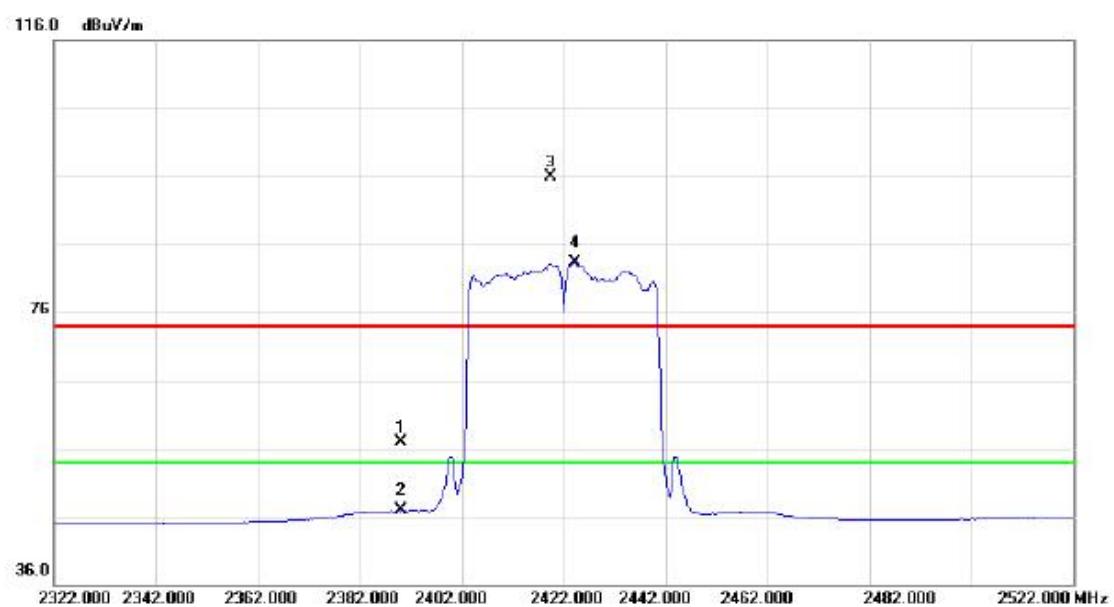
No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level dBuV	Factor dB	ment dBuV/m				
1		2383.400	32.77	31.87	64.64	74.00	-9.36	peak	
2		2383.400	21.08	31.87	52.95	54.00	-1.05	AVG	
3		2390.000	31.69	31.88	63.57	74.00	-10.43	peak	
4		2390.000	20.61	31.88	52.49	54.00	-1.51	AVG	
5	*	2420.200	59.08	31.92	91.00	54.00	37.00	AVG	No Limit
6	X	2423.800	70.69	31.93	102.62	74.00	28.62	peak	No Limit

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

Vertical

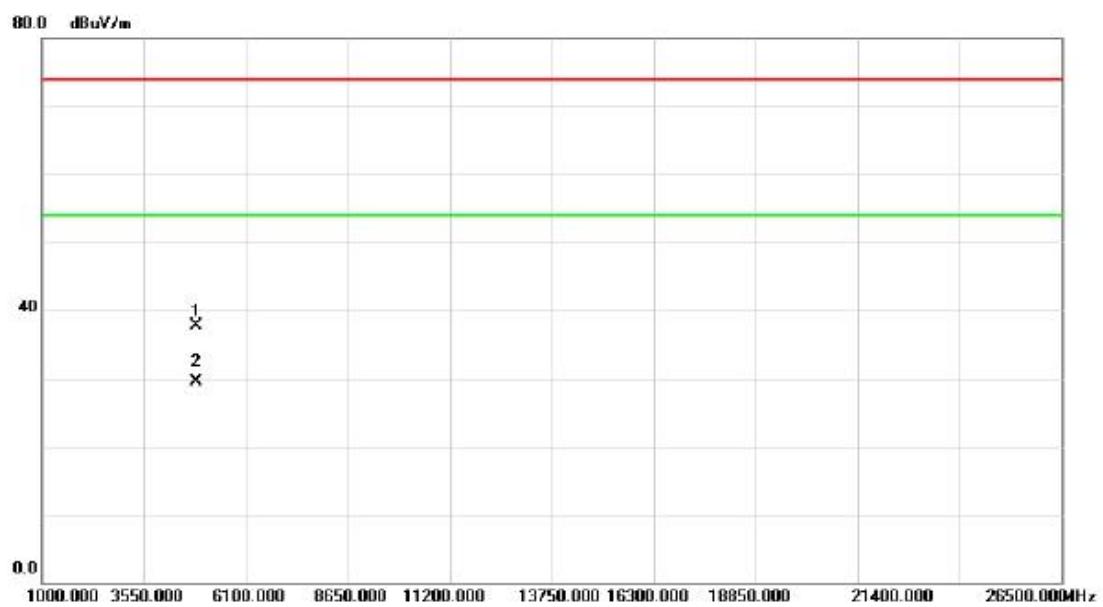
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.110	38.06	3.66	41.72	74.00	-32.28	peak	
2	*	4844.110	29.84	3.66	33.50	54.00	-20.50	AVG	

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	24.98	31.88	56.86	74.00	-17.14	peak	
2		2390.000	14.95	31.88	46.83	54.00	-7.17	AVG	
3	X	2419.400	63.96	31.92	95.88	74.00	21.88	peak	No Limit
4	*	2424.200	51.33	31.93	83.26	54.00	29.26	AVG	No Limit

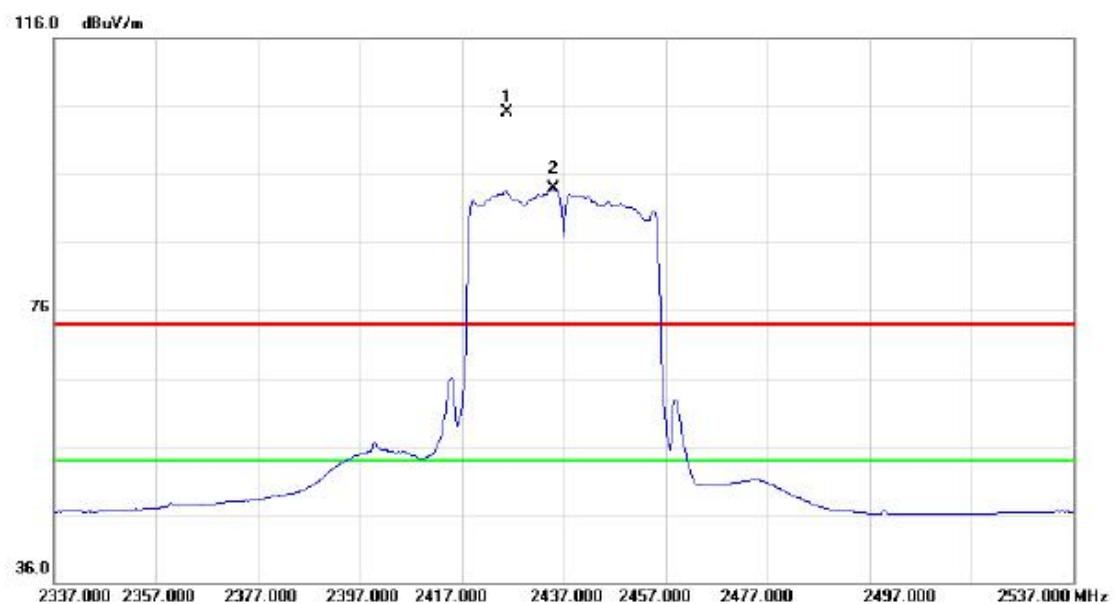
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2422MHz

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4844.400	34.10	3.66	37.76	74.00	-36.24	peak	
2	*	4844.400	25.83	3.66	29.49	54.00	-24.51	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

Vertical

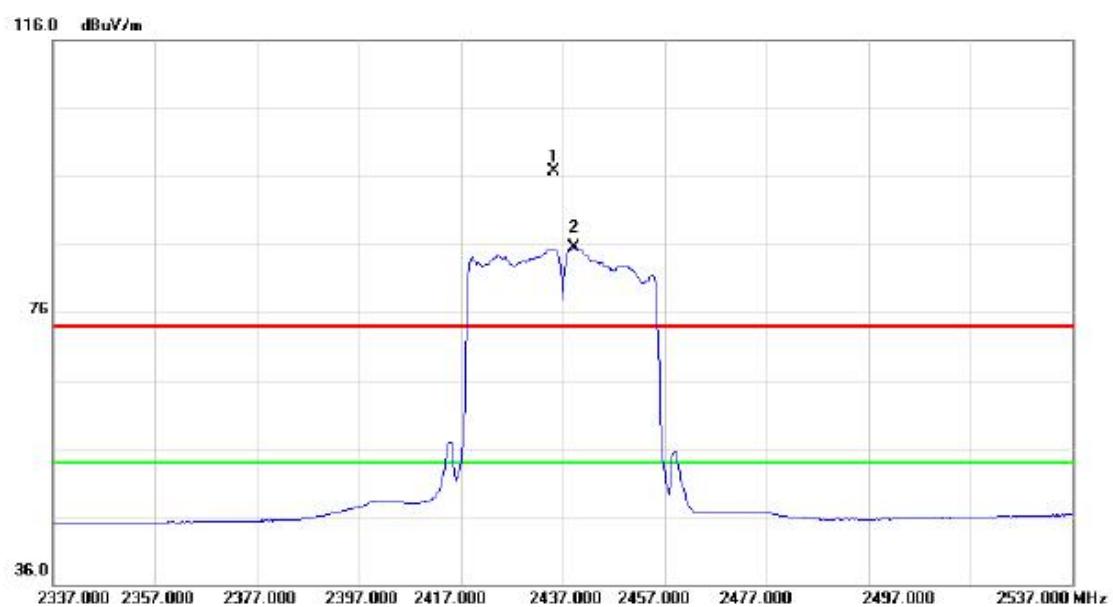
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2425.800	73.25	31.93	105.18	74.00	31.18	peak	No Limit
2	*	2435.000	61.92	31.94	93.86	54.00	39.86	AVG	No Limit

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

Vertical

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4873.650	38.14	3.72	41.86	74.00	-32.14	peak	
2	*	4873.650	29.32	3.72	33.04	54.00	-20.96	AVG	

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2435.200	64.69	31.94	96.63	74.00	22.63	peak	No Limit
2	*	2439.200	53.50	31.94	85.44	54.00	31.44	AVG	No Limit

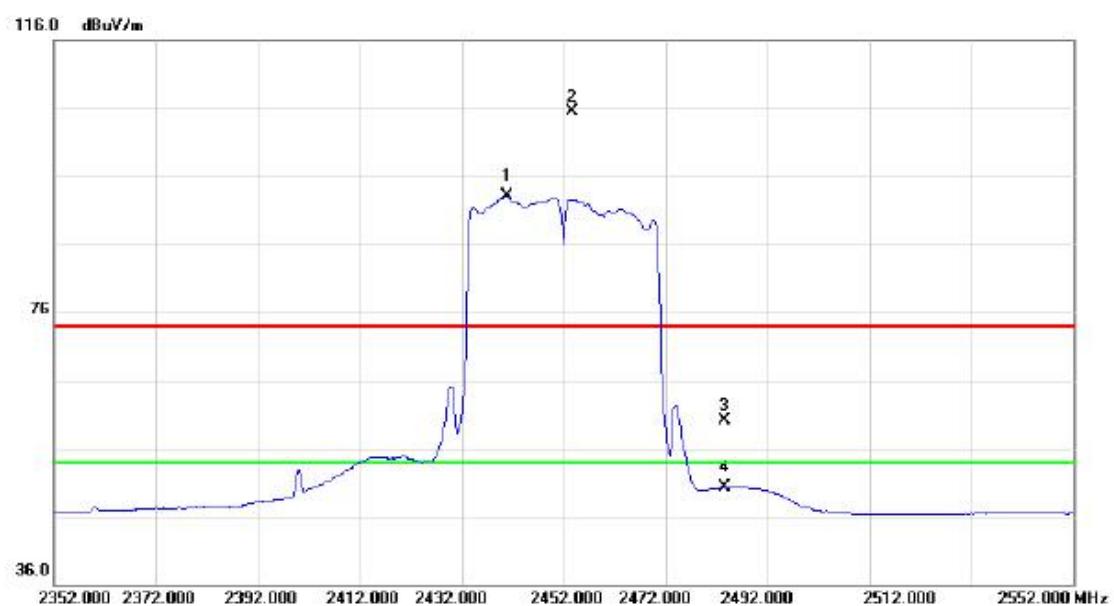
Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2437MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector Comment
1		4873.260	34.30	3.72	38.02	74.00	-35.98	peak
2	*	4873.260	25.59	3.72	29.31	54.00	-24.69	AVG

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

Vertical

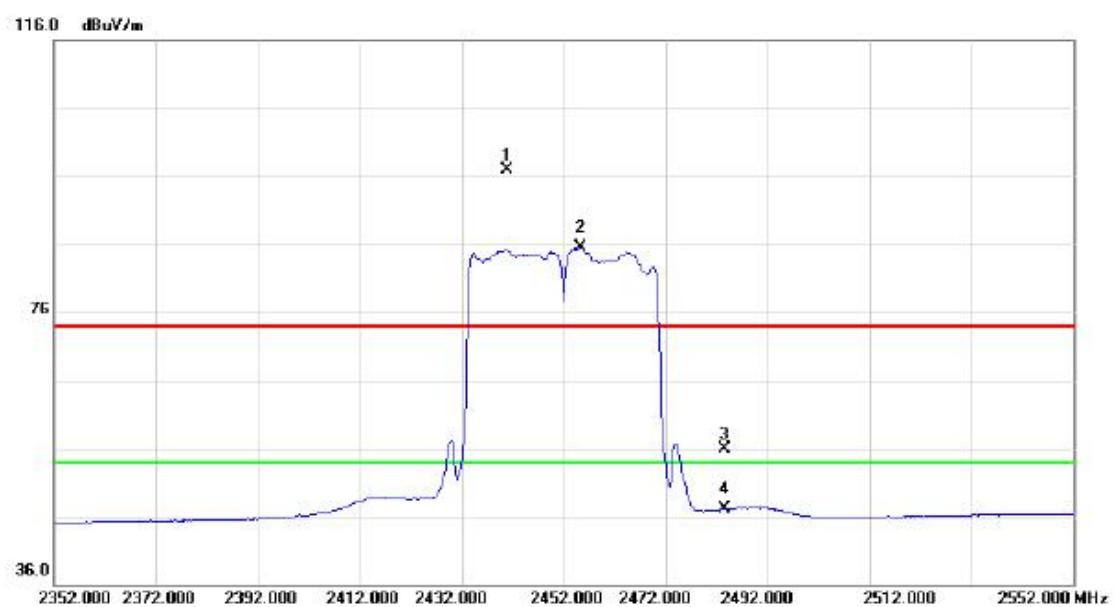
No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	2440.800	61.22	31.95	93.17	54.00	39.17	AVG	No Limit
2	X	2453.800	73.51	31.96	105.47	74.00	31.47	peak	No Limit
3		2483.500	28.12	32.01	60.13	74.00	-13.87	peak	
4		2483.500	18.19	32.01	50.20	54.00	-3.80	AVG	

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

Vertical

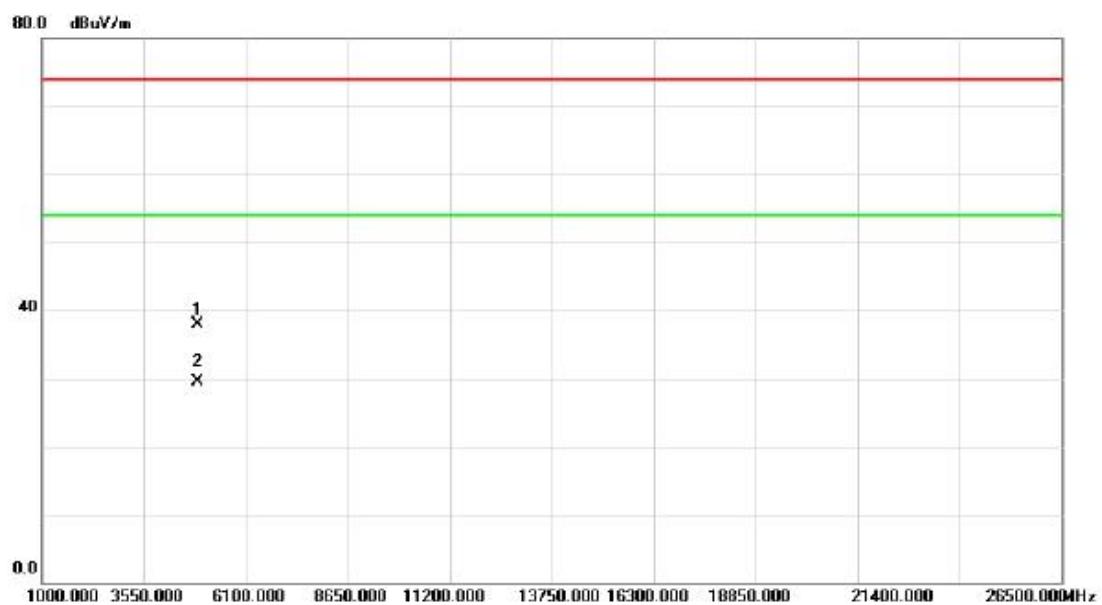
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4903.930	38.13	3.77	41.90	74.00	-32.10	peak	
2	*	4903.930	28.76	3.77	32.53	54.00	-21.47	AVG	

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

Horizontal

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2440.800	64.94	31.95	96.89	74.00	22.89	peak	No Limit
2	*	2455.400	53.53	31.96	85.49	54.00	31.49	AVG	No Limit
3		2483.500	23.80	32.01	55.81	74.00	-18.19	peak	
4		2483.500	15.08	32.01	47.09	54.00	-6.91	AVG	

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

Horizontal

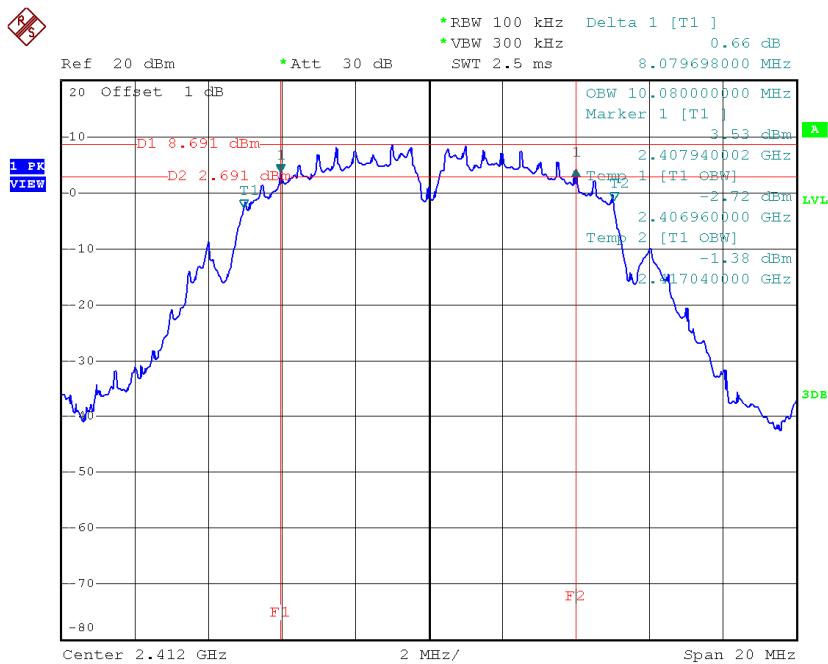
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4904.000	34.21	3.77	37.98	74.00	-36.02	peak	
2	*	4904.000	25.80	3.77	29.57	54.00	-24.43	AVG	

ATTACHMENT E - BANDWIDTH

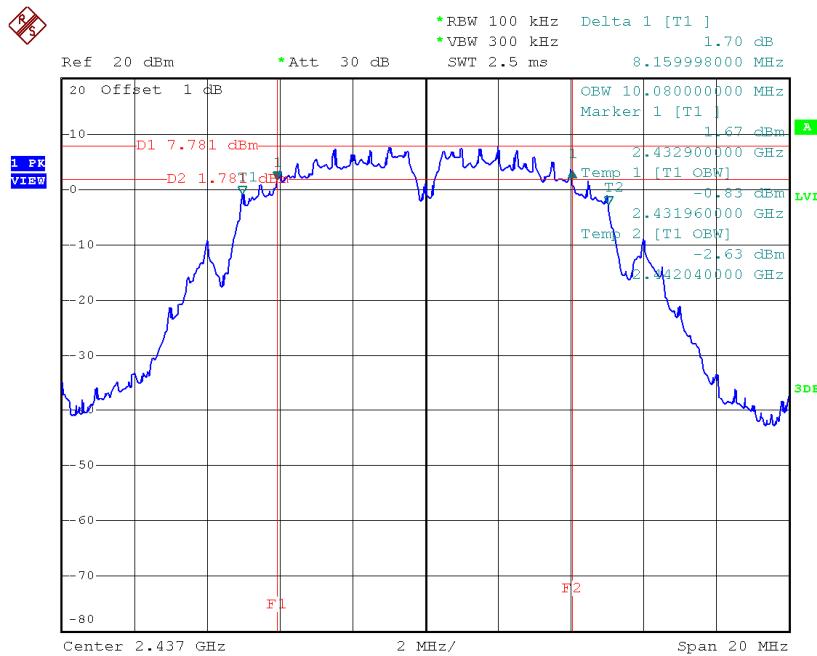
Test Mode : TX B Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	8.08	10.08	500	Complies
2437	8.16	10.08	500	Complies
2462	8.06	10.08	500	Complies

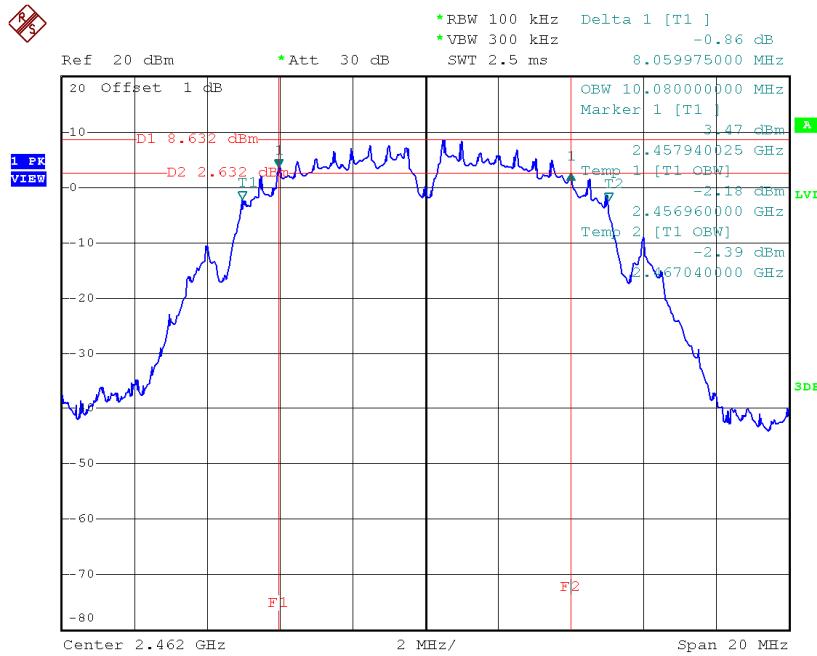
TX CH01



Date: 13.MAR.2015 13:50:48

TX CH06

Date: 13.MAR.2015 13:51:49

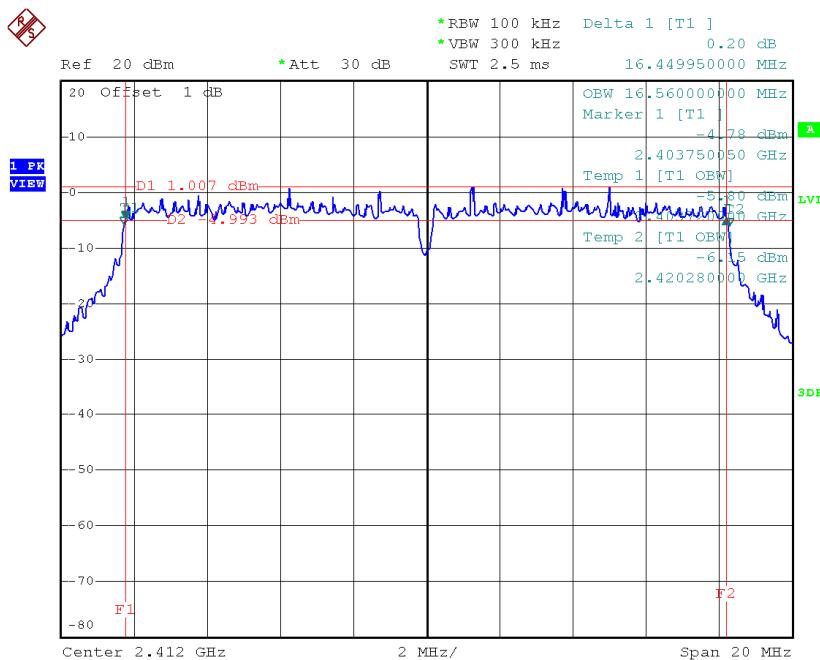
TX CH11

Date: 13.MAR.2015 13:52:51

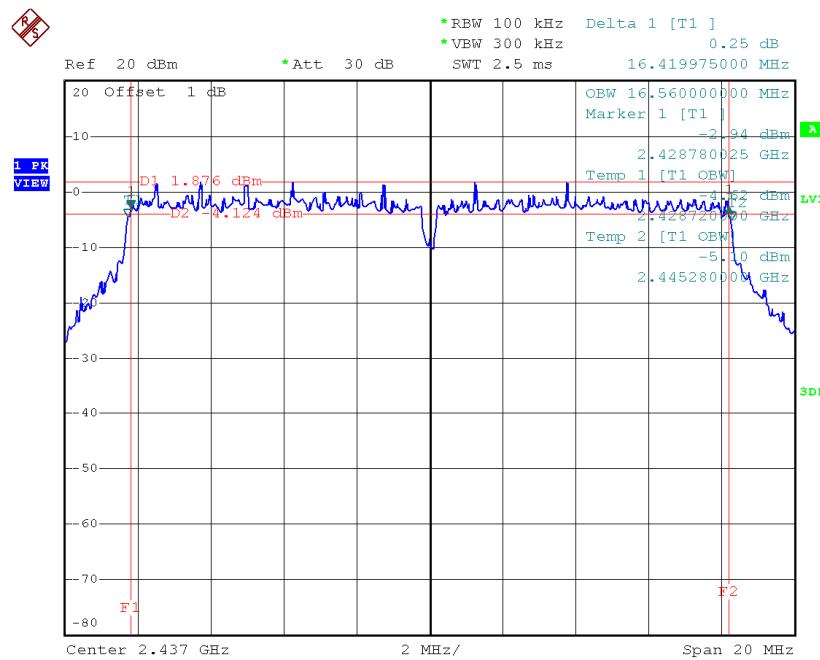
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.45	16.56	500	Complies
2437	16.42	16.56	500	Complies
2462	16.45	16.56	500	Complies

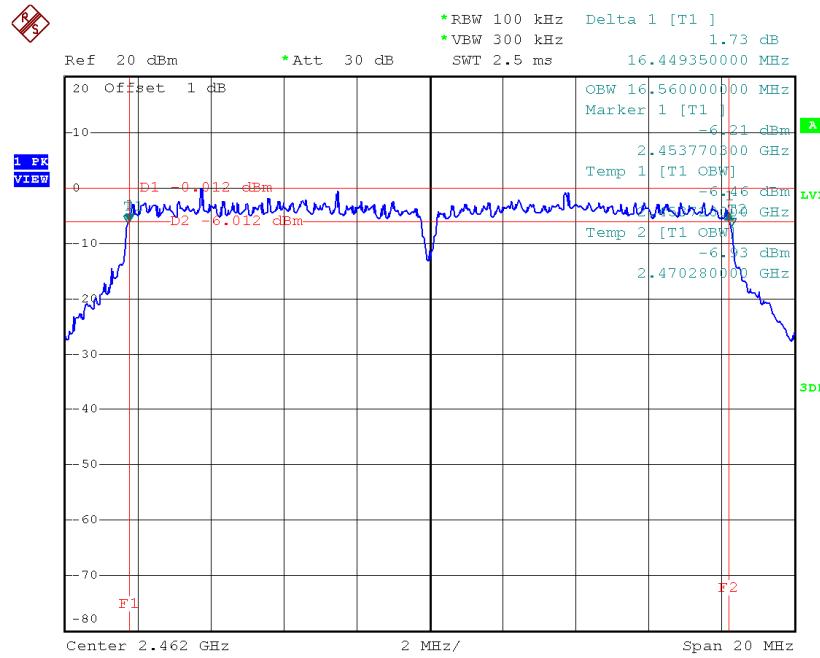
TX CH01



Date: 13.MAR.2015 13:55:08

TX CH06

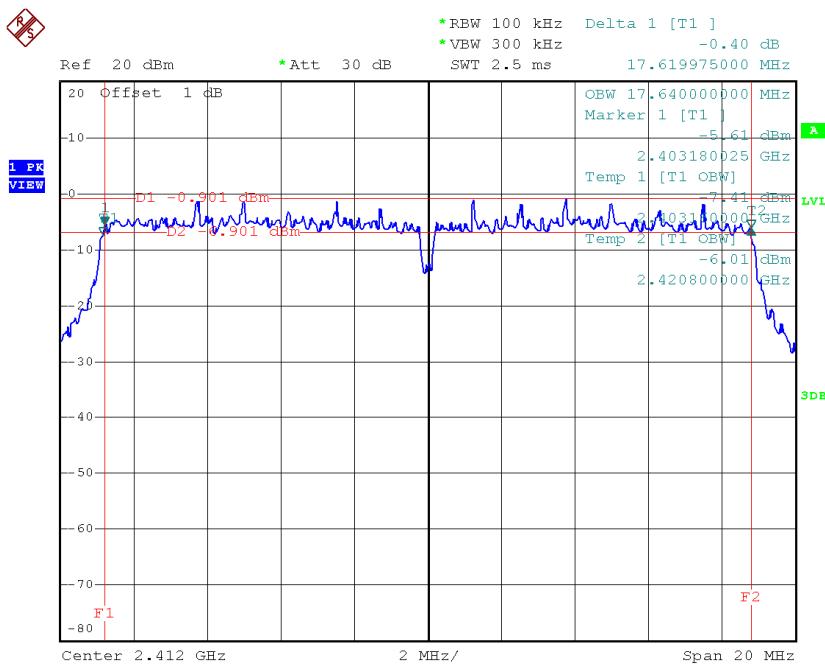
Date: 13.MAR.2015 13:56:04

TX CH11

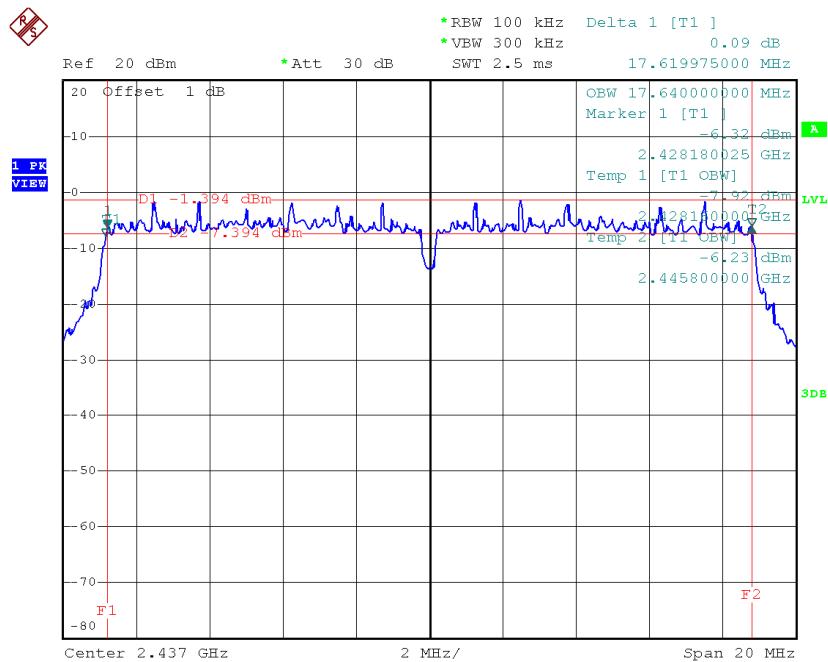
Date: 13.MAR.2015 13:57:12

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

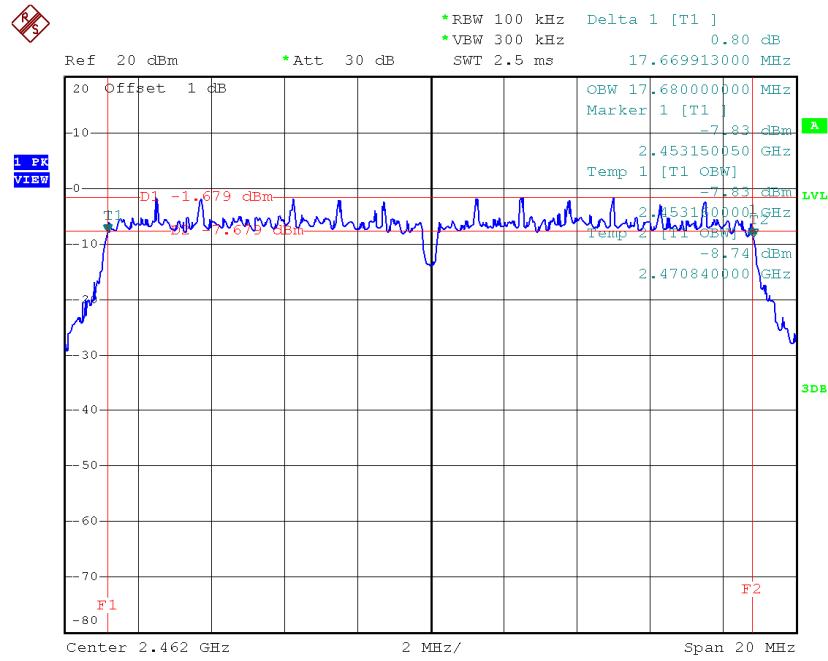
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.62	17.64	500	Complies
2437	17.62	17.64	500	Complies
2462	17.67	17.68	500	Complies

TX CH01


Date: 13.MAR.2015 14:03:59

TX CH06

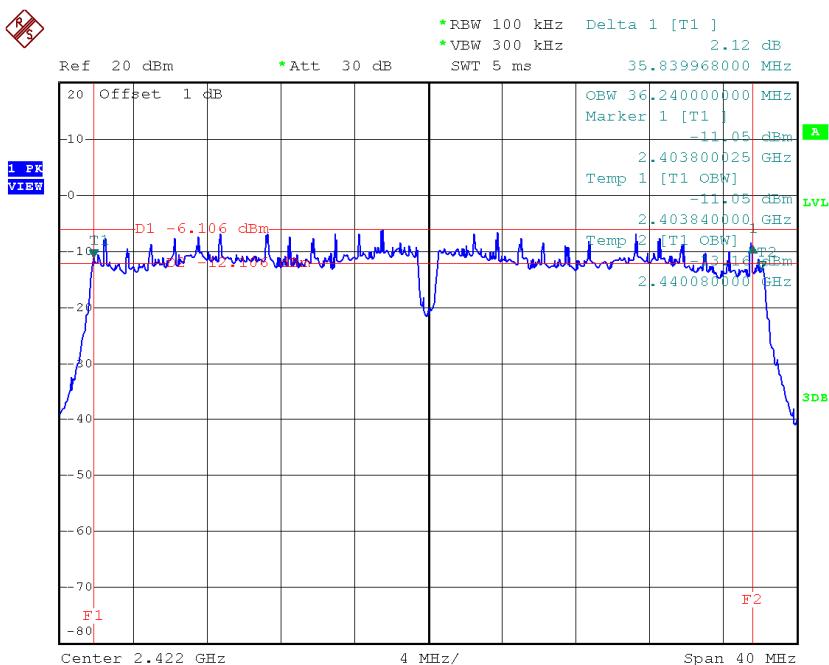
Date: 13.MAR.2015 14:05:02

TX CH11

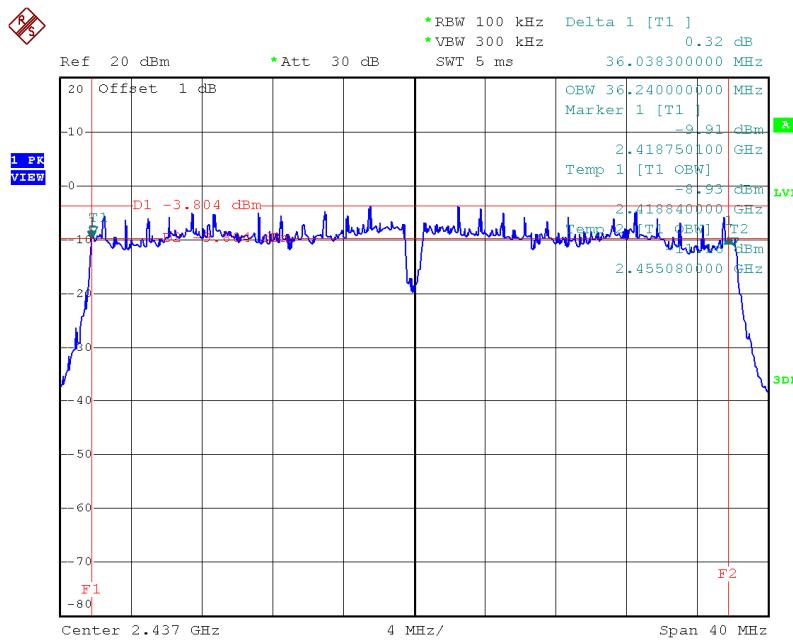
Date: 13.MAR.2015 14:05:51

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

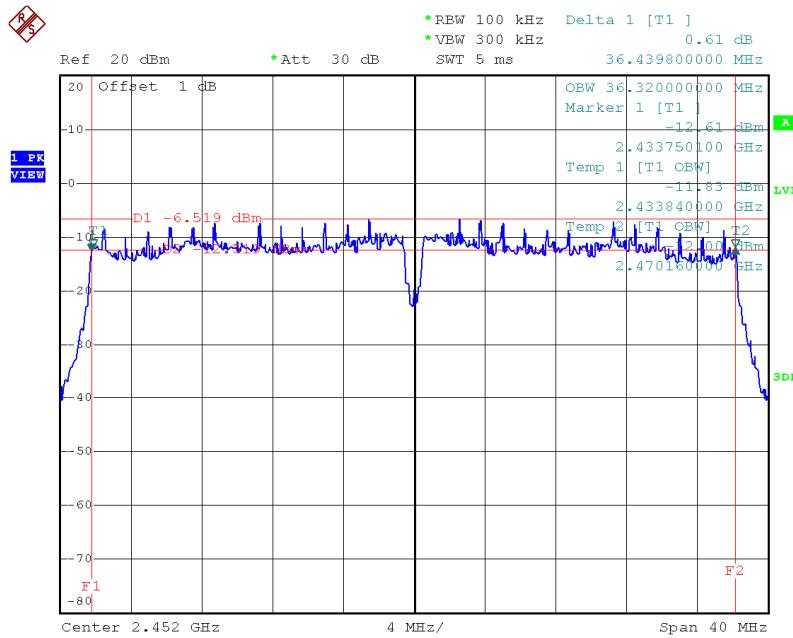
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.84	36.24	500	Complies
2437	36.04	36.24	500	Complies
2452	36.44	36.32	500	Complies

TX CH03


Date: 13.MAR.2015 14:28:13

TX CH06

Date: 13.MAR.2015 14:29:23

TX CH09

Date: 13.MAR.2015 14:30:34

**ATTACHMENT F – 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	19.84	0.10	30.00	1.00	Complies
2437	19.38	0.09	30.00	1.00	Complies
2462	18.74	0.07	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.24	0.08	30.00	1.00	Complies
2437	21.04	0.13	30.00	1.00	Complies
2462	17.74	0.06	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	18.03	0.06	30.00	1.00	Complies
2437	17.83	0.06	30.00	1.00	Complies
2462	16.79	0.05	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	18.95	0.08	30.00	1.00	Complies
2437	18.38	0.07	30.00	1.00	Complies
2462	17.56	0.06	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 3

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.74	0.09	30.00	1.00	Complies
2437	19.72	0.09	30.00	1.00	Complies
2462	17.74	0.06	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	23.73	0.24	30.00	1.00	Complies
2437	23.49	0.22	30.00	1.00	Complies
2462	22.15	0.16	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	14.33	0.03	30.00	1.00	Complies
2437	16.41	0.04	30.00	1.00	Complies
2452	12.48	0.02	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	15.10	0.03	30.00	1.00	Complies
2437	17.48	0.06	30.00	1.00	Complies
2452	14.21	0.03	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 3

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	15.19	0.03	30.00	1.00	Complies
2437	17.76	0.06	30.00	1.00	Complies
2452	14.16	0.03	30.00	1.00	Complies

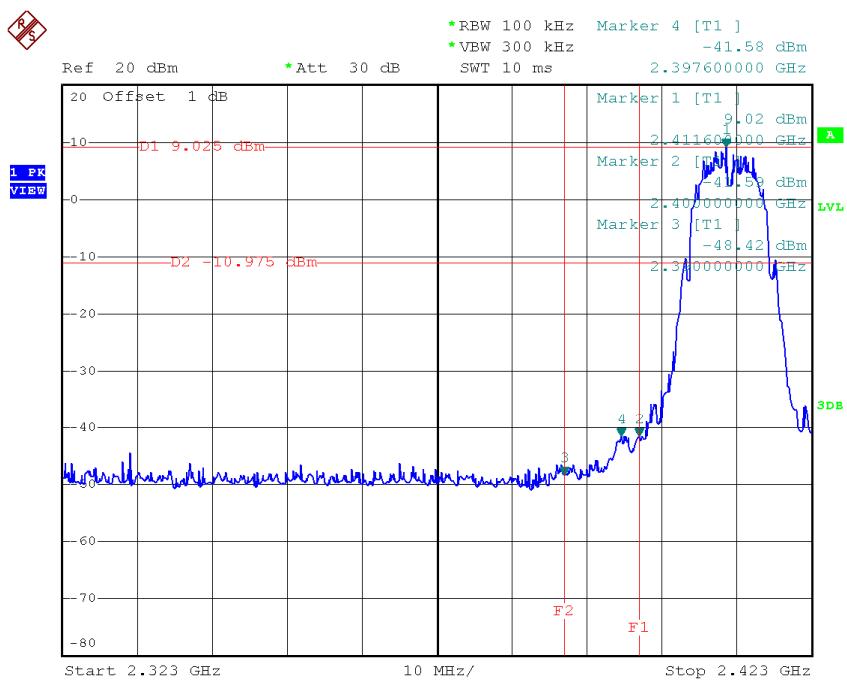
Test Mode :TX N40 Mode_CH03/06/09_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	19.66	0.09	30.00	1.00	Complies
2437	22.03	0.16	30.00	1.00	Complies
2452	18.46	0.07	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS
EMISSION**

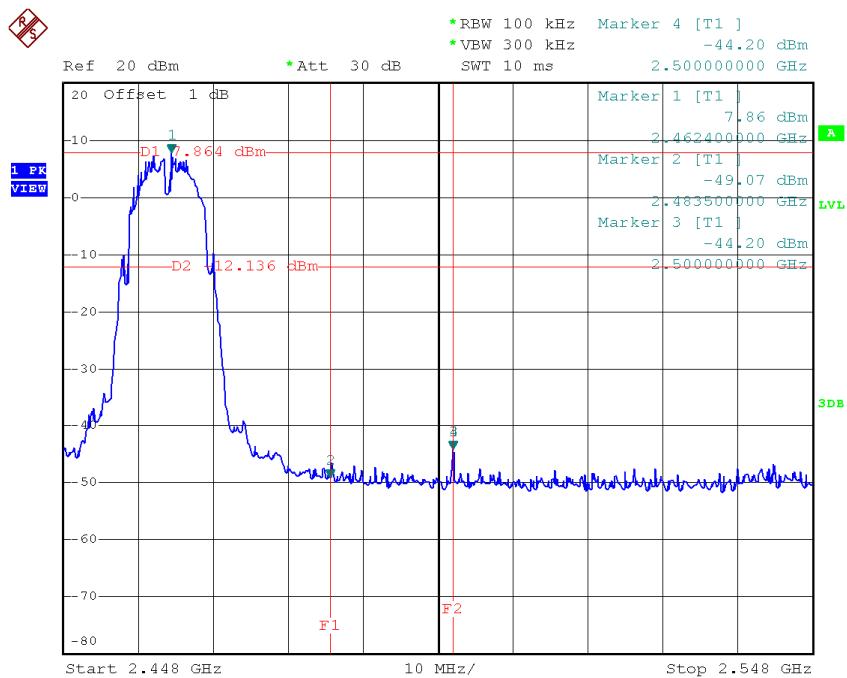
Test Mode : TX B Mode

TX B mode CH01

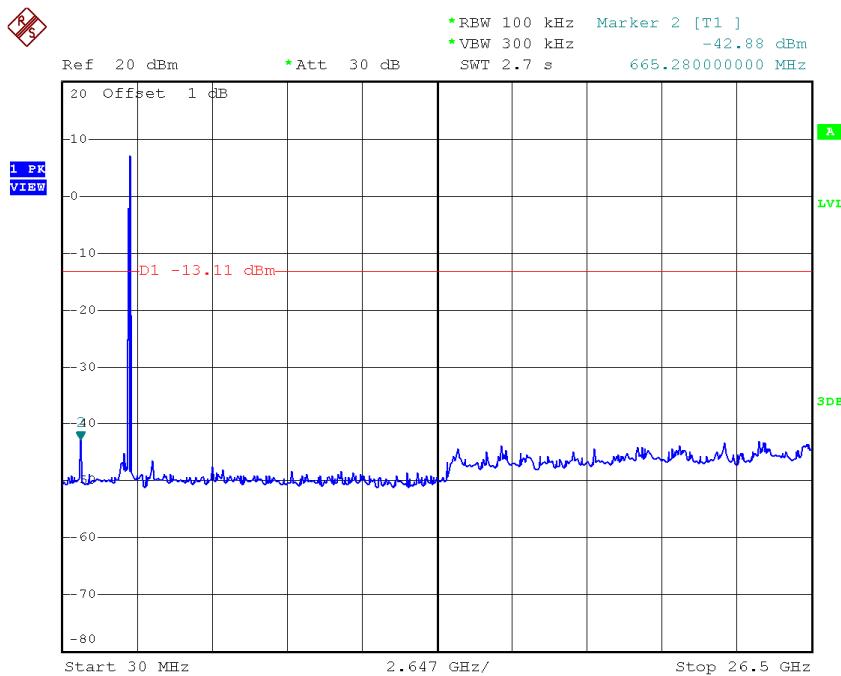


Date: 13.MAR.2015 13:51:09

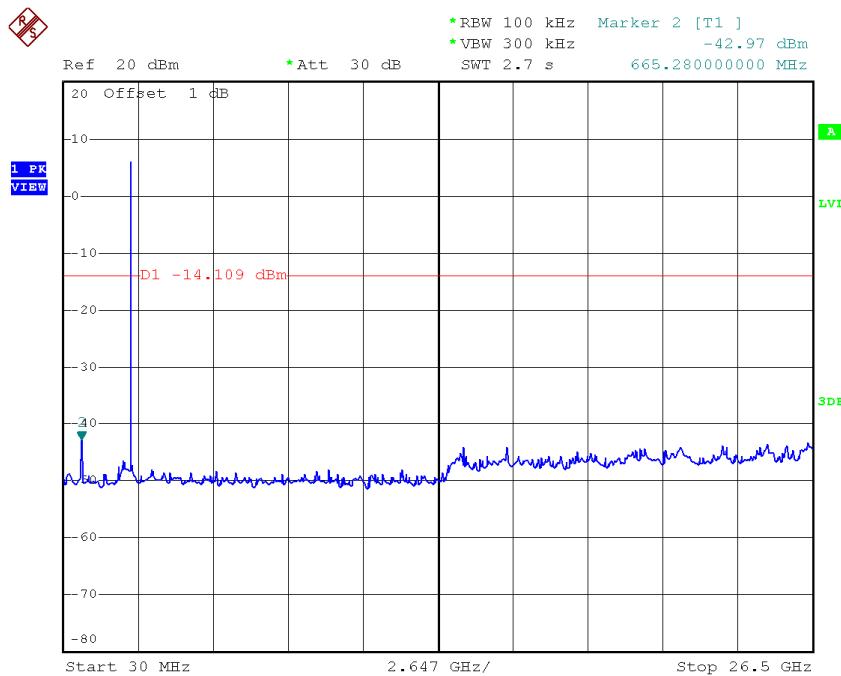
TX B mode CH11



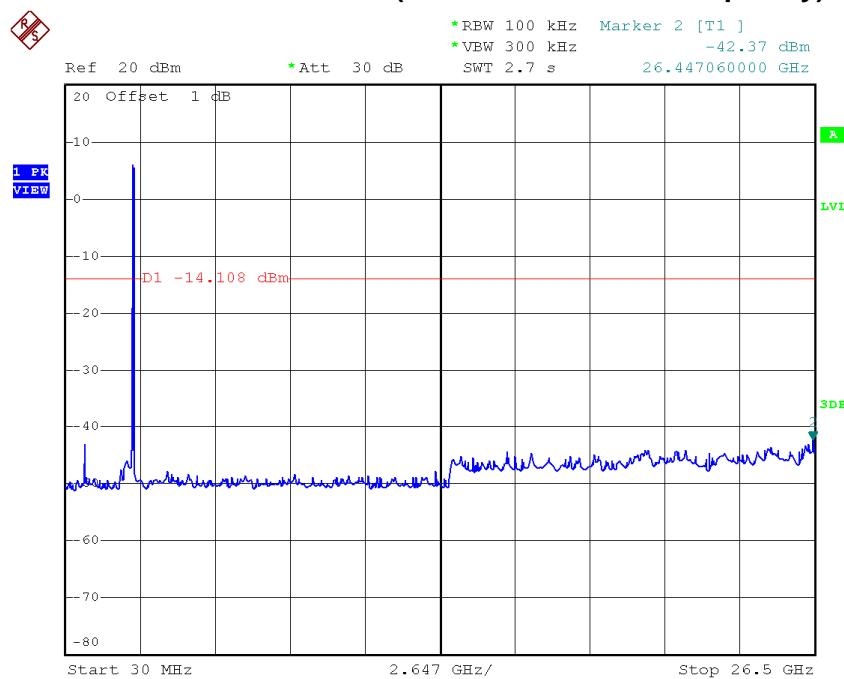
Date: 13.MAR.2015 13:53:12

TX B mode CH01 (10 Harmonic of the frequency)

Date: 13.MAR.2015 13:51:02

TX B mode CH06 (10 Harmonic of the frequency)

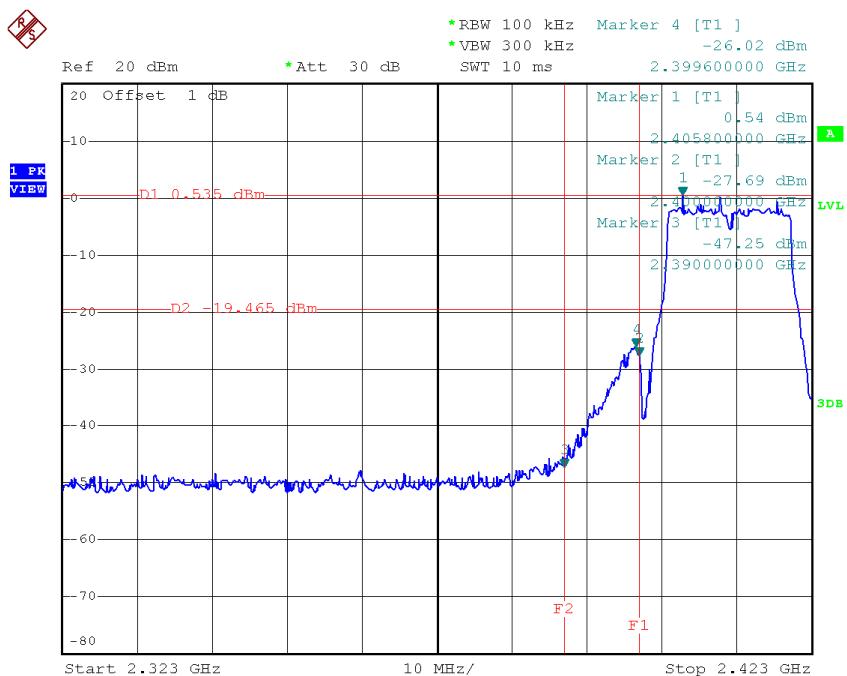
Date: 13.MAR.2015 13:52:02

TX B mode CH11 (10 Harmonic of the frequency)

Date: 13.MAR.2015 13:53:05

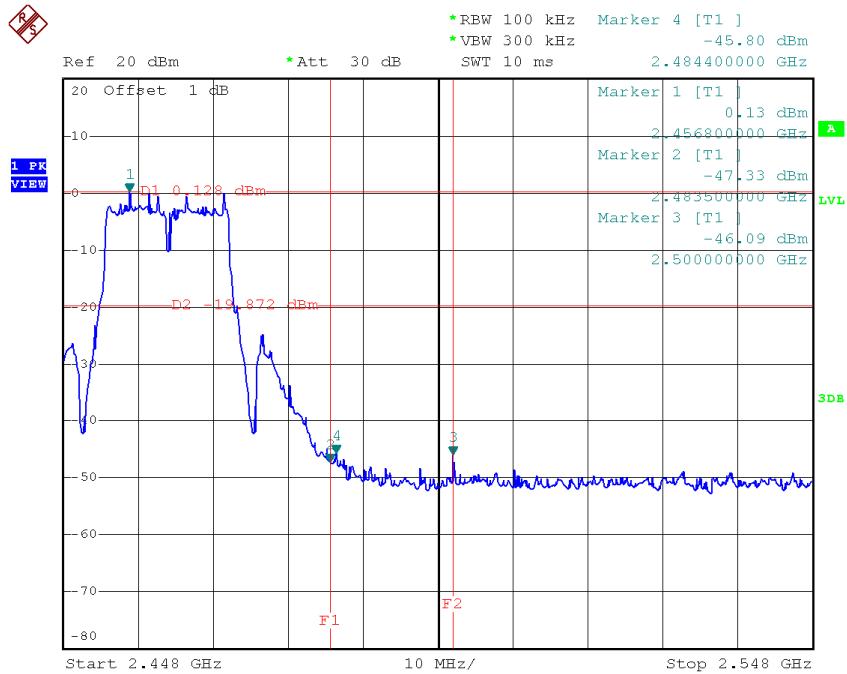
Test Mode : TX G Mode

TX G mode CH01

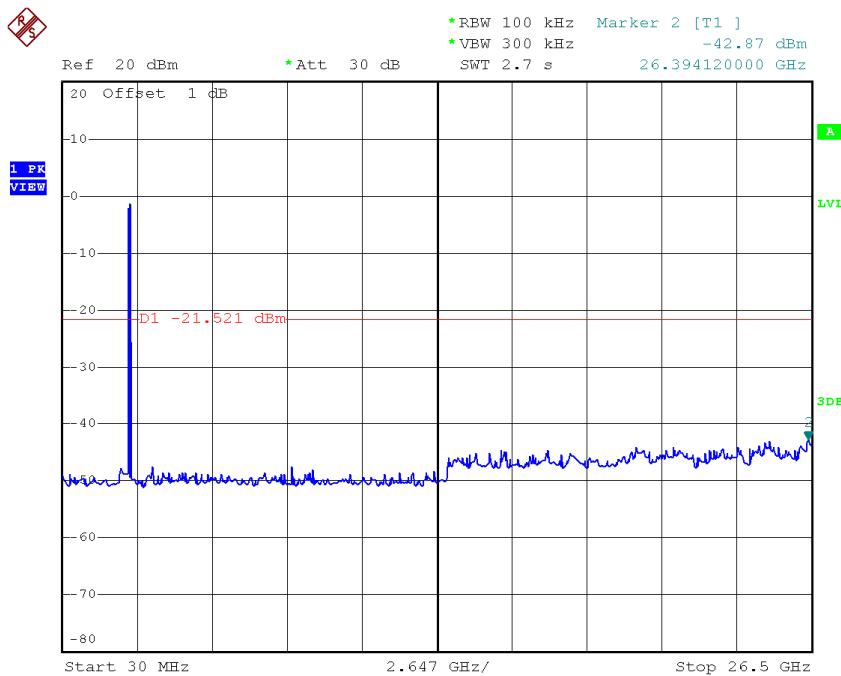


Date: 13.MAR.2015 13:55:30

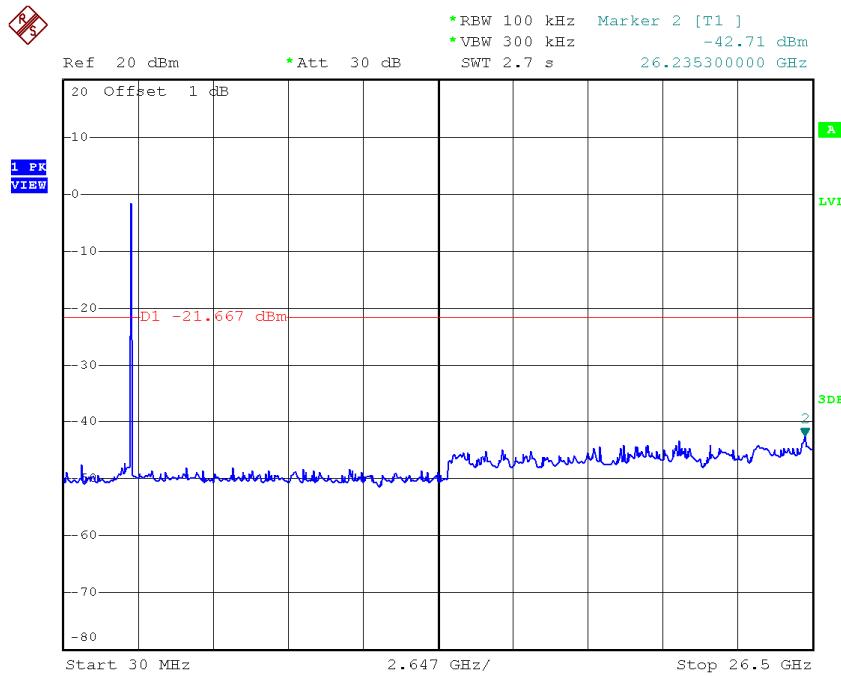
TX G mode CH11



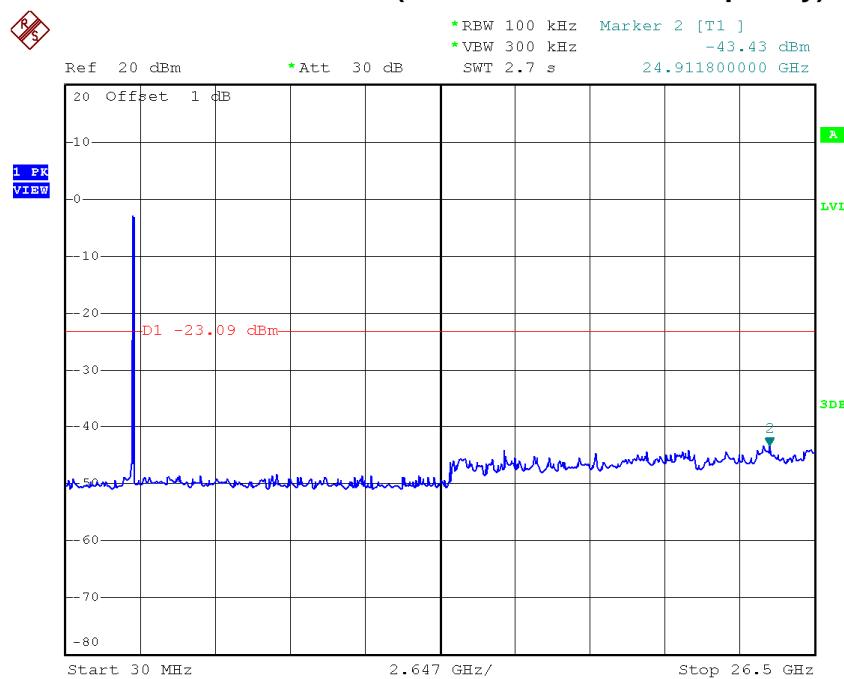
Date: 13.MAR.2015 13:57:33

TX G mode CH01 (10 Harmonic of the frequency)

Date: 13.MAR.2015 13:55:22

TX G mode CH06 (10 Harmonic of the frequency)

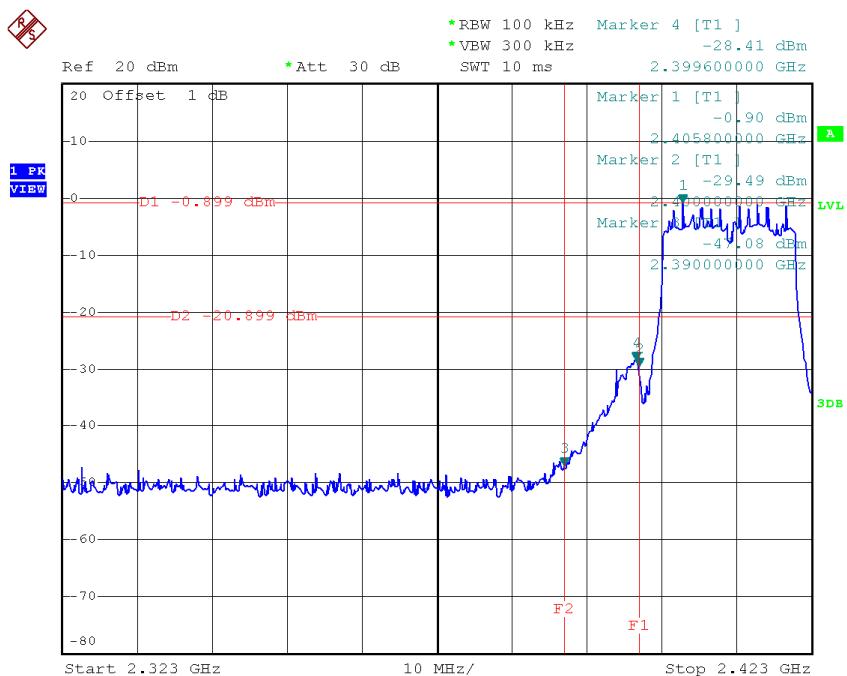
Date: 13.MAR.2015 13:56:18

TX G mode CH11 (10 Harmonic of the frequency)

Date: 13.MAR.2015 13:57:26

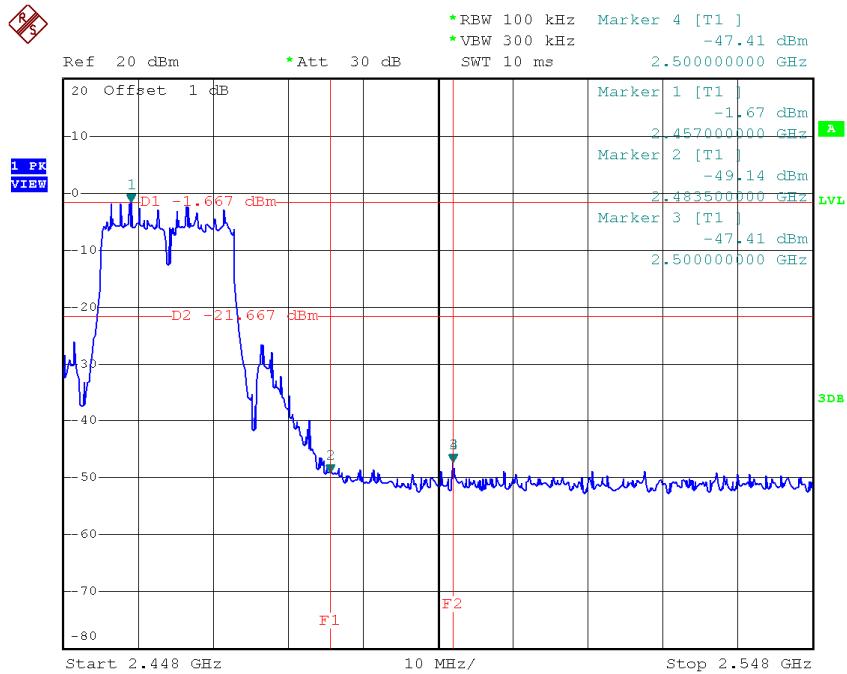
Test Mode : TX N-20M Mode_ANT 1

TX HT20 mode CH01

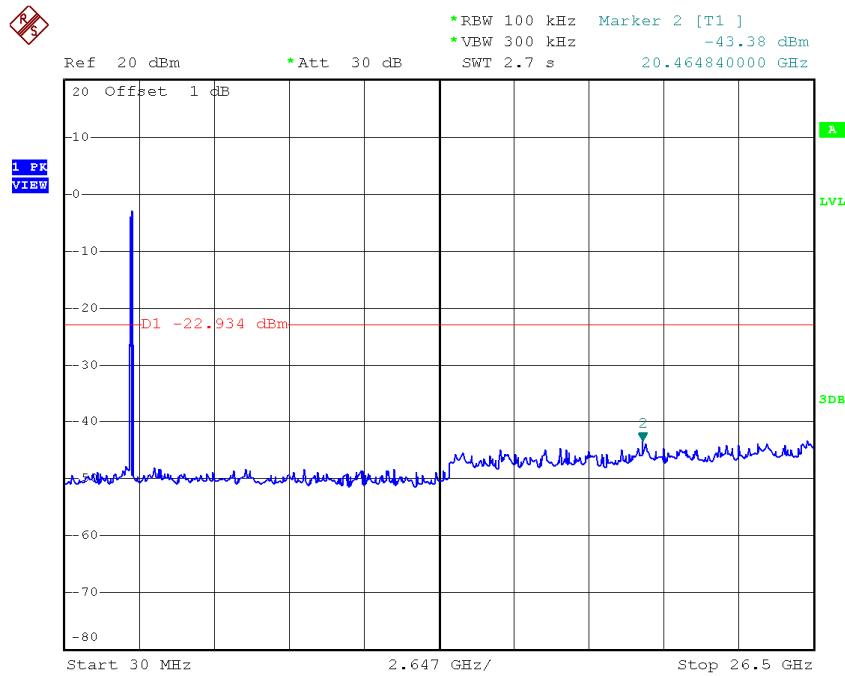


Date: 13.MAR.2015 14:04:20

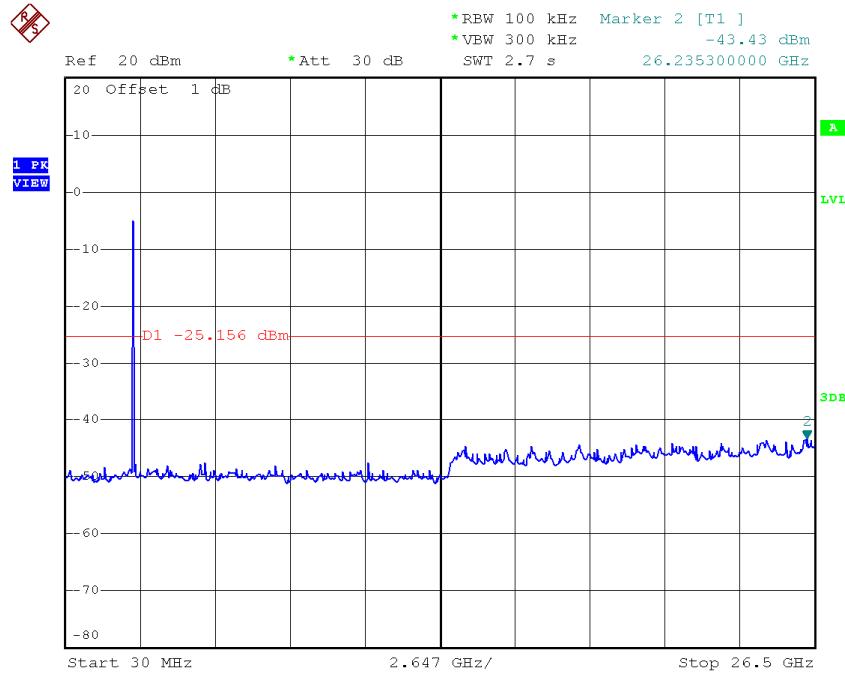
TX HT20 mode CH11



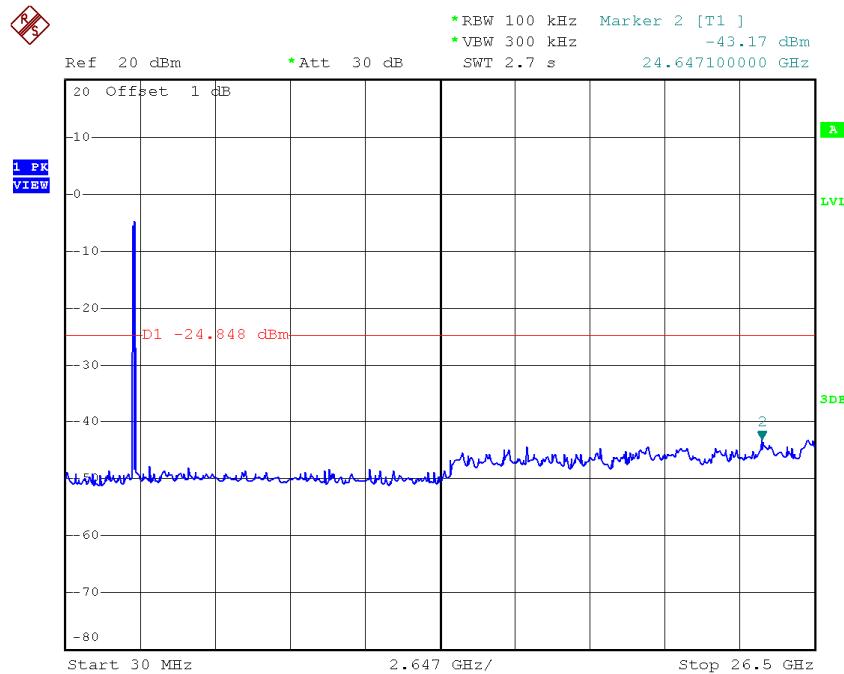
Date: 13.MAR.2015 14:06:12

TX HT20 mode CH01 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:04:12

TX HT20 mode CH06 (10 Harmonic of the frequency)

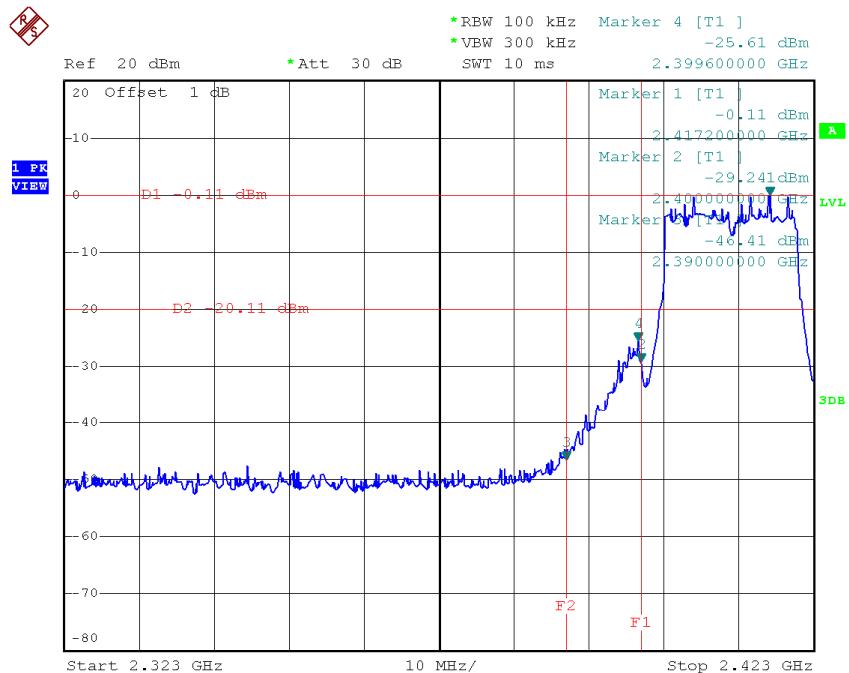
Date: 13.MAR.2015 14:05:16

TX HT20 mode CH11 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:06:05

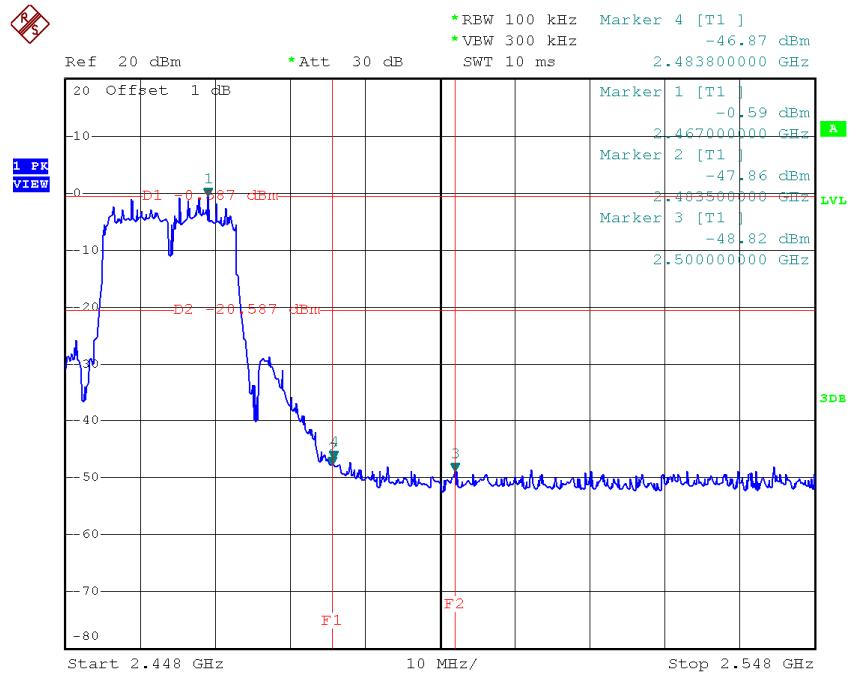
Test Mode : TX N-20M Mode_ANT 2

TX HT20 mode CH01

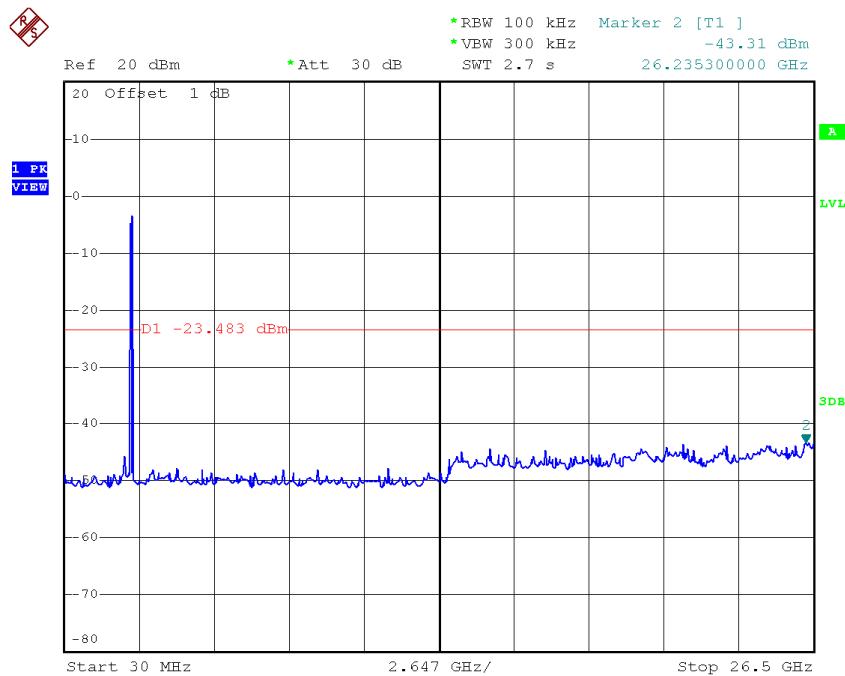


Date: 13.MAR.2015 14:08:18

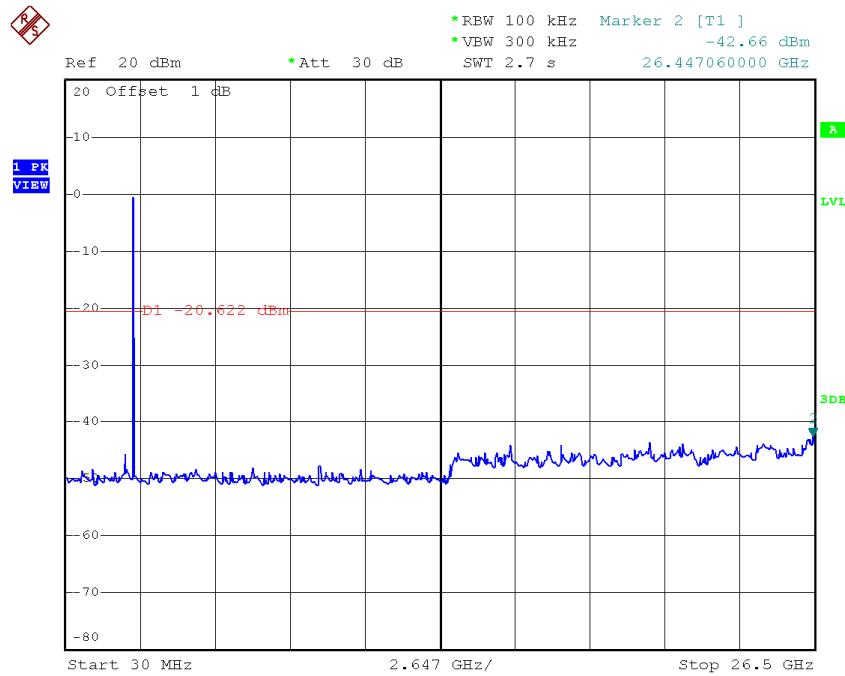
TX HT20 mode CH11



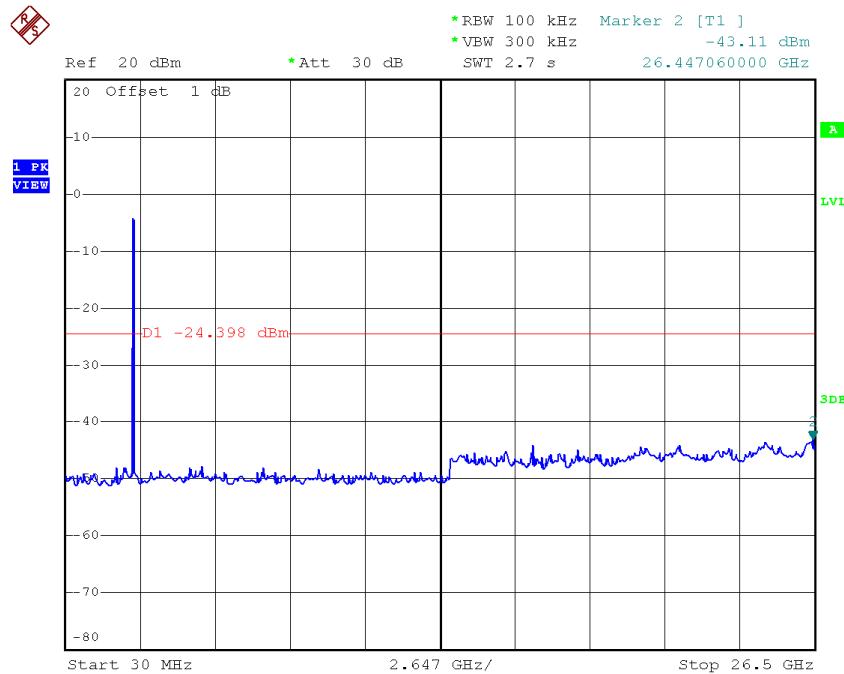
Date: 13.MAR.2015 14:10:03

TX HT20 mode CH01 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:08:10

TX HT20 mode CH06 (10 Harmonic of the frequency)

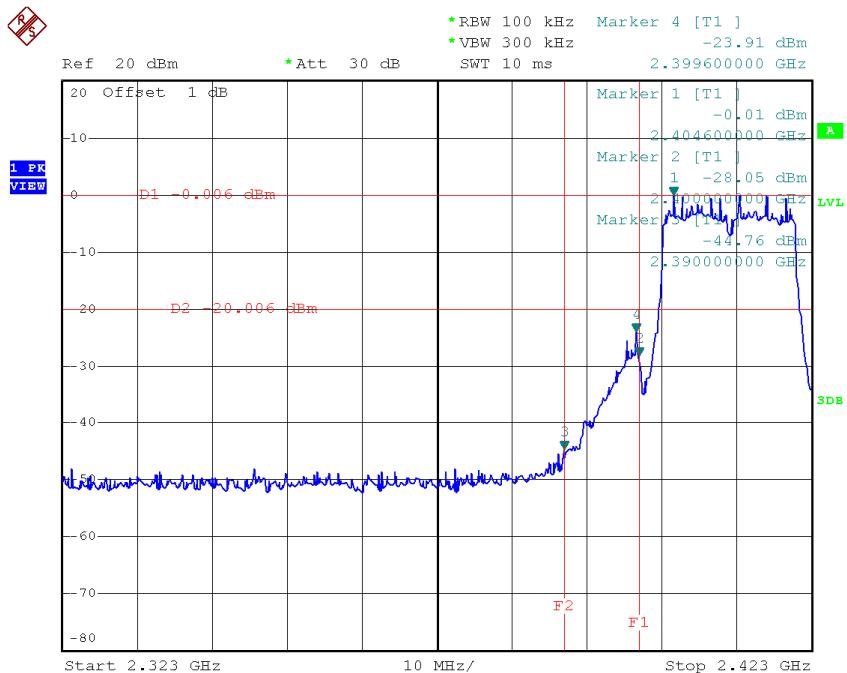
Date: 13.MAR.2015 14:09:05

TX HT20 mode CH11 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:09:55

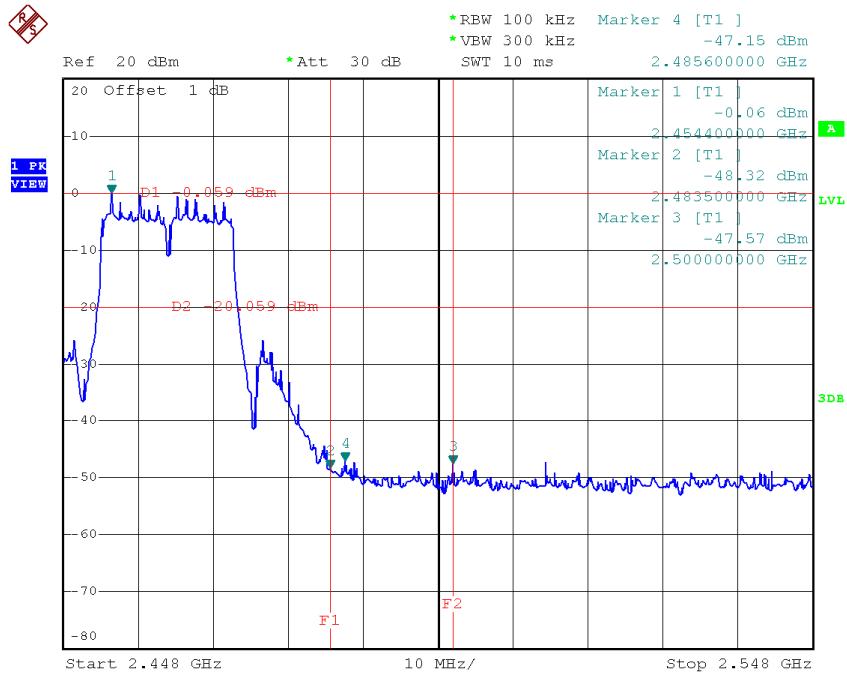
Test Mode : TX N-20M Mode_ANT 3

TX HT20 mode CH01

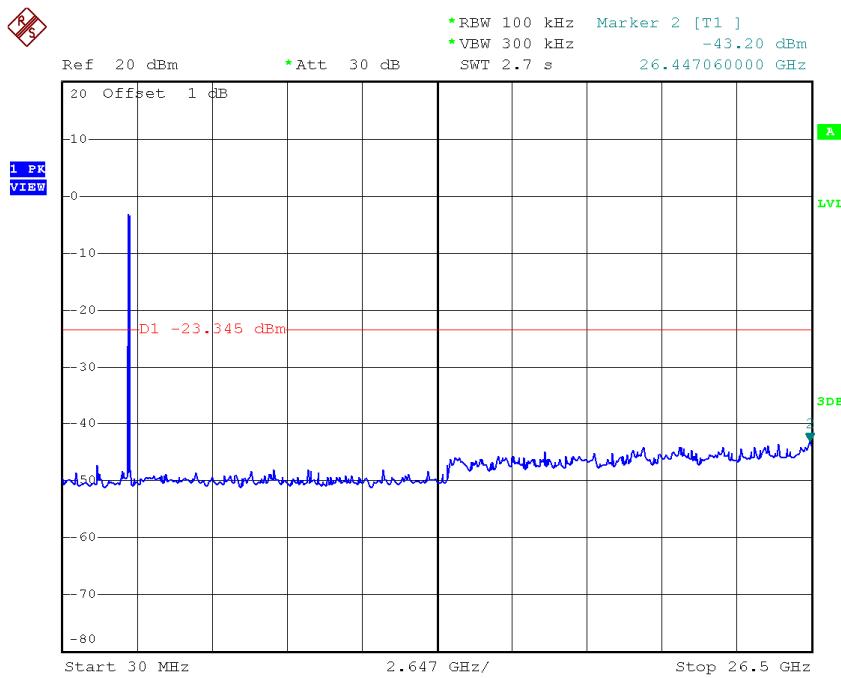


Date: 13.MAR.2015 14:13:11

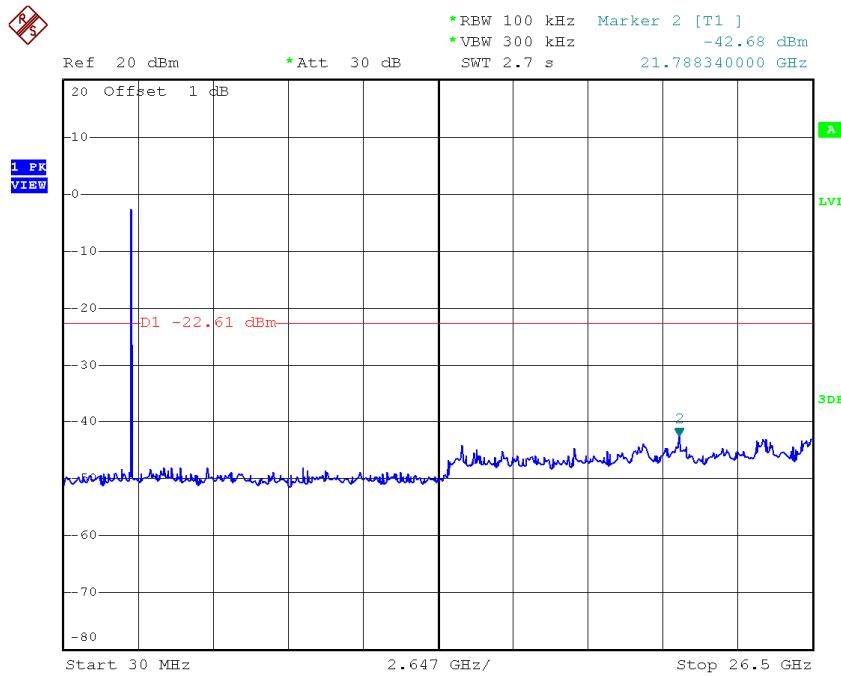
TX HT20 mode CH11



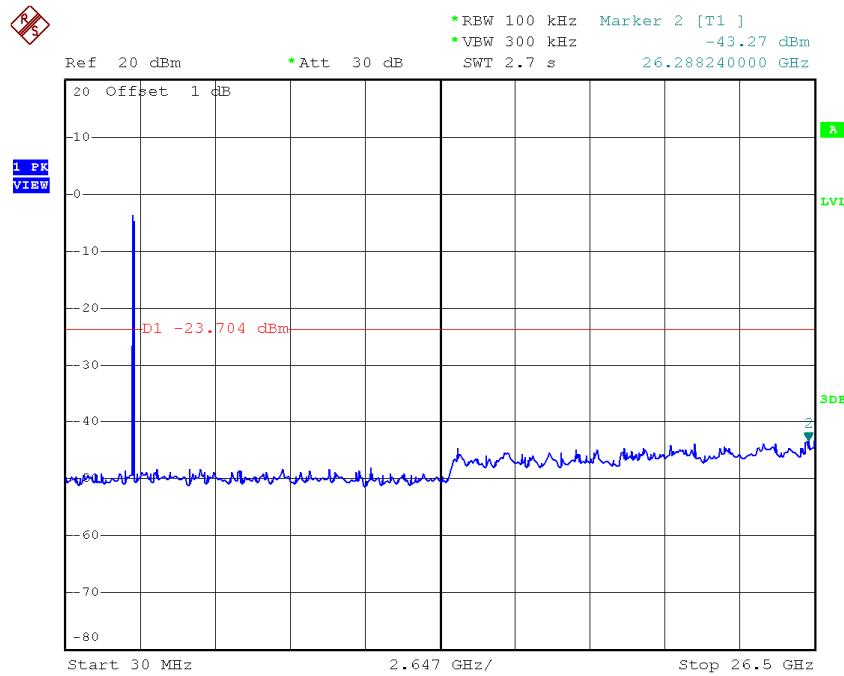
Date: 13.MAR.2015 14:15:23

TX HT20 mode CH01 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:13:04

TX HT20 mode CH06 (10 Harmonic of the frequency)

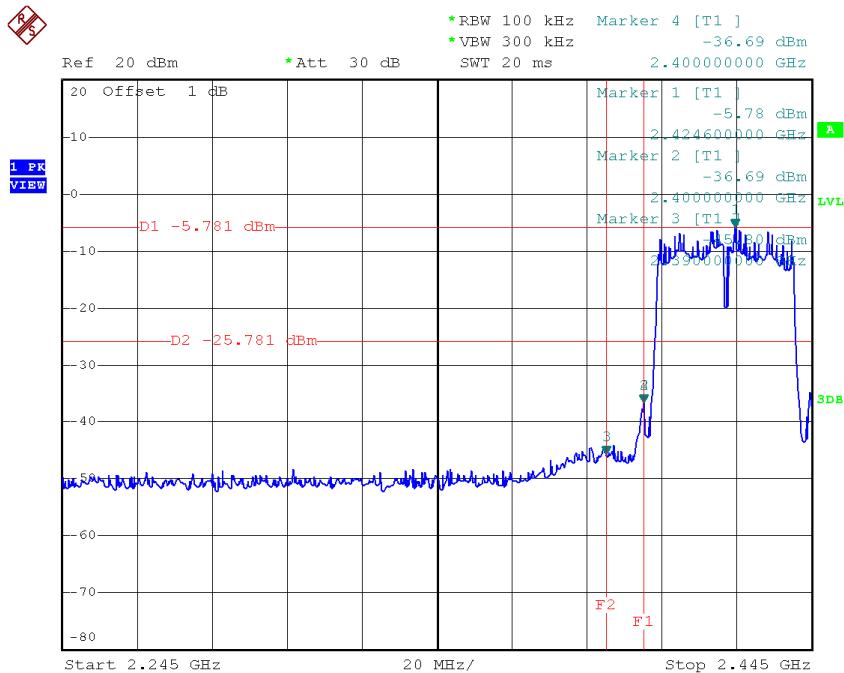
Date: 13.MAR.2015 14:14:10

TX HT20 mode CH11 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:15:15

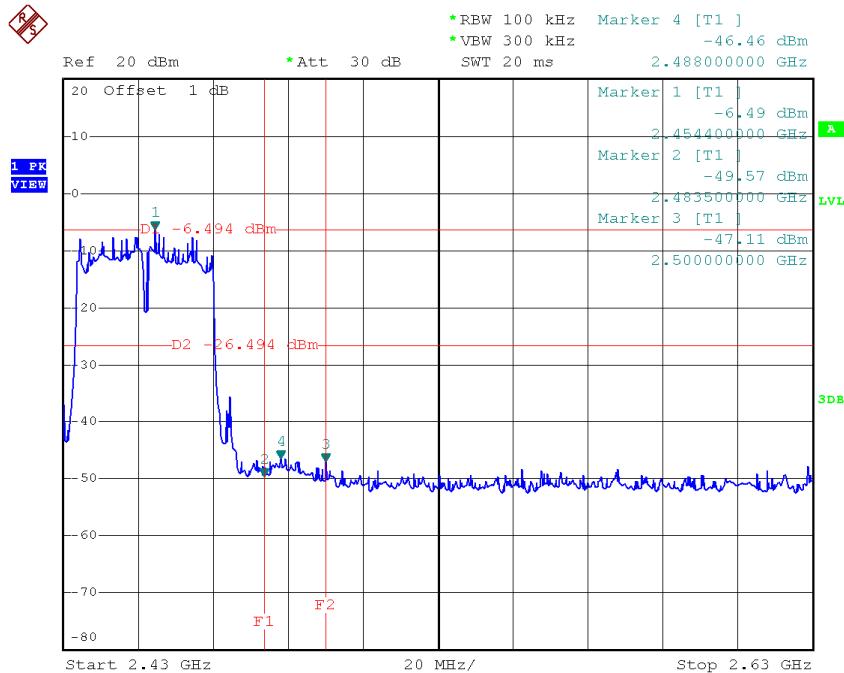
Test Mode : TX N-40M Mode_ANT 1

TX HT40 mode CH03

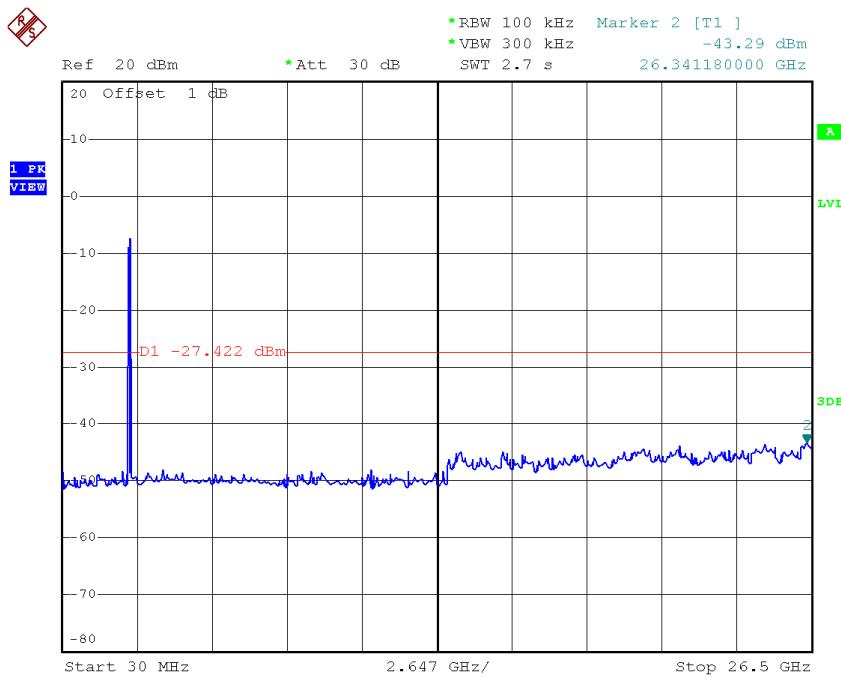


Date: 13.MAR.2015 14:28:35

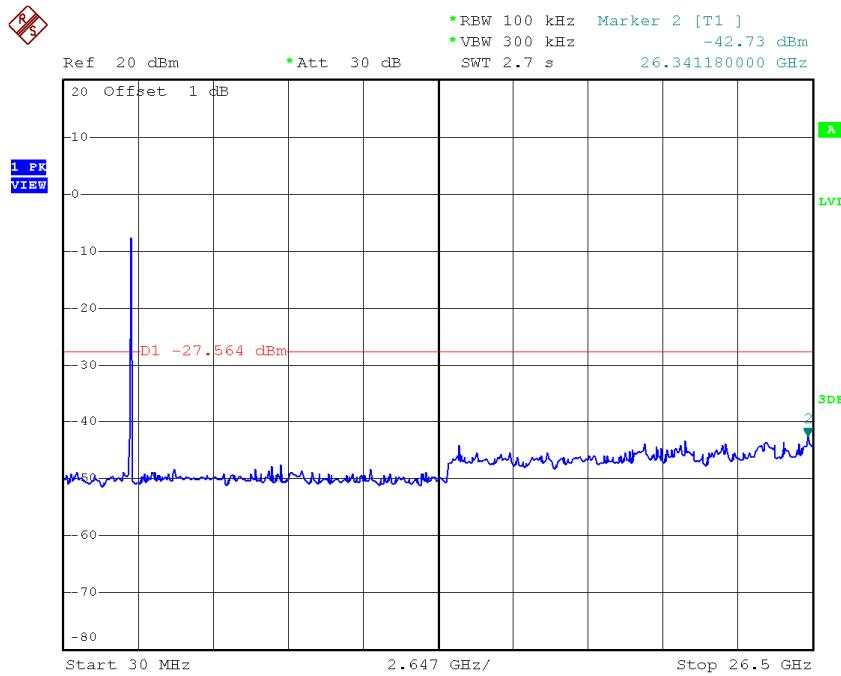
TX HT40 mode CH09



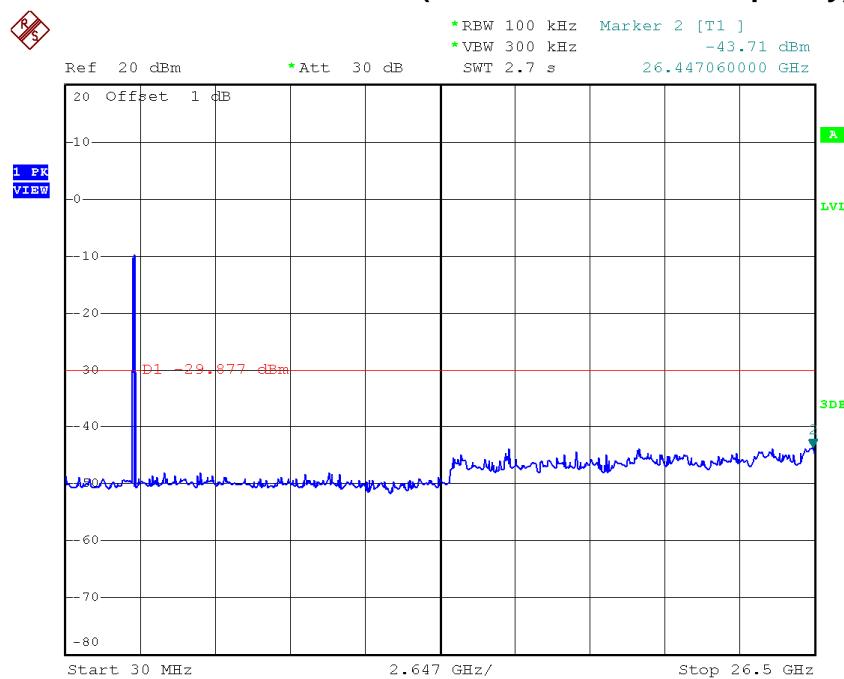
Date: 13.MAR.2015 14:30:55

TX HT40 mode CH03 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:28:27

TX HT40 mode CH06 (10 Harmonic of the frequency)

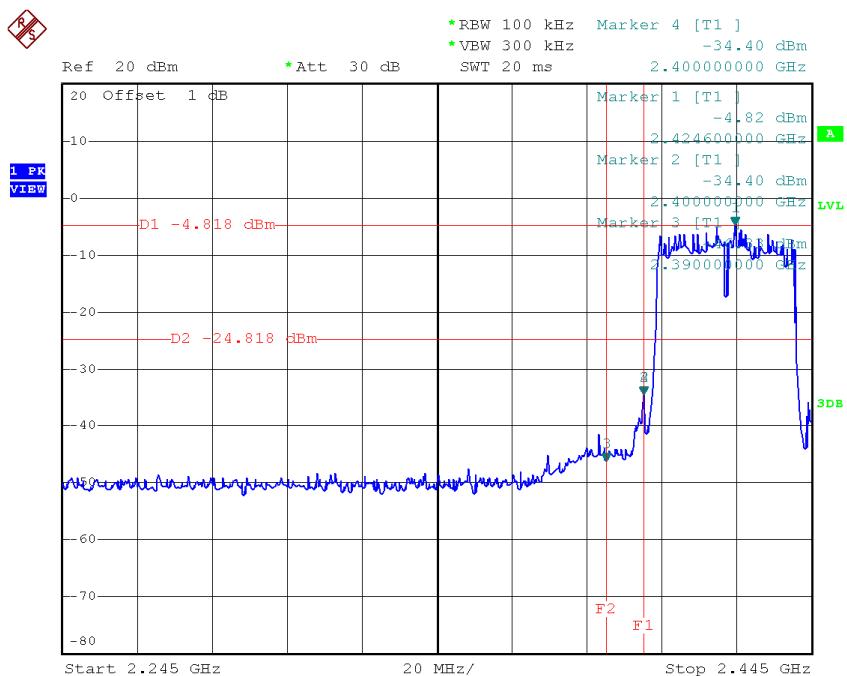
Date: 13.MAR.2015 14:29:37

TX HT40 mode CH09 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:30:48

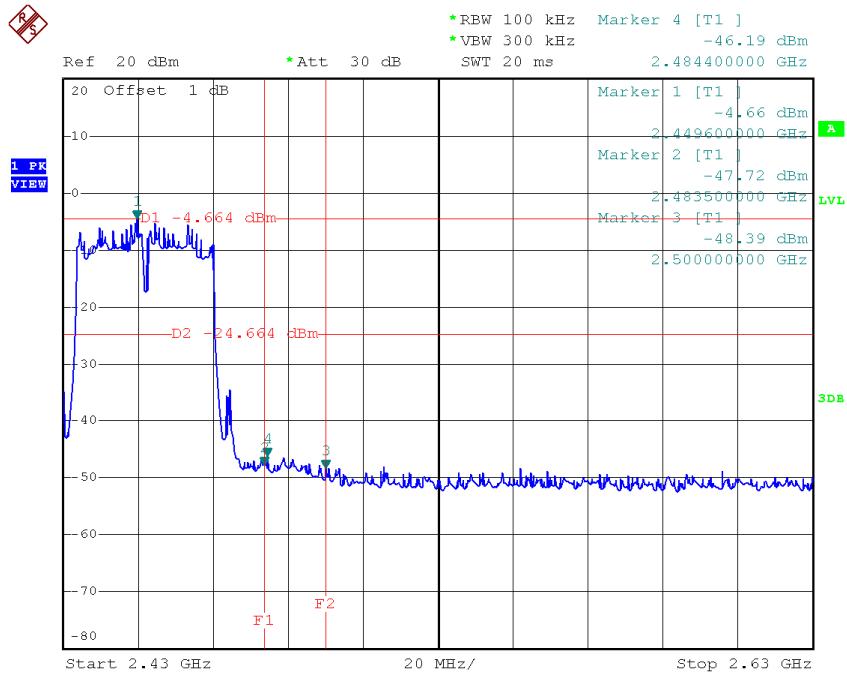
Test Mode : TX N-40M Mode_ANT 2

TX HT40 mode CH03

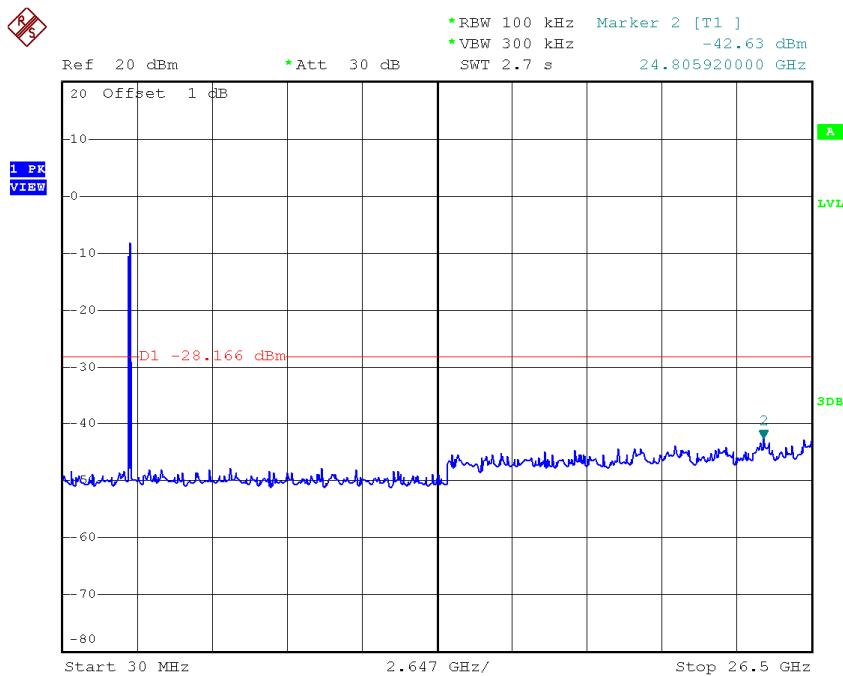


Date: 13.MAR.2015 14:23:24

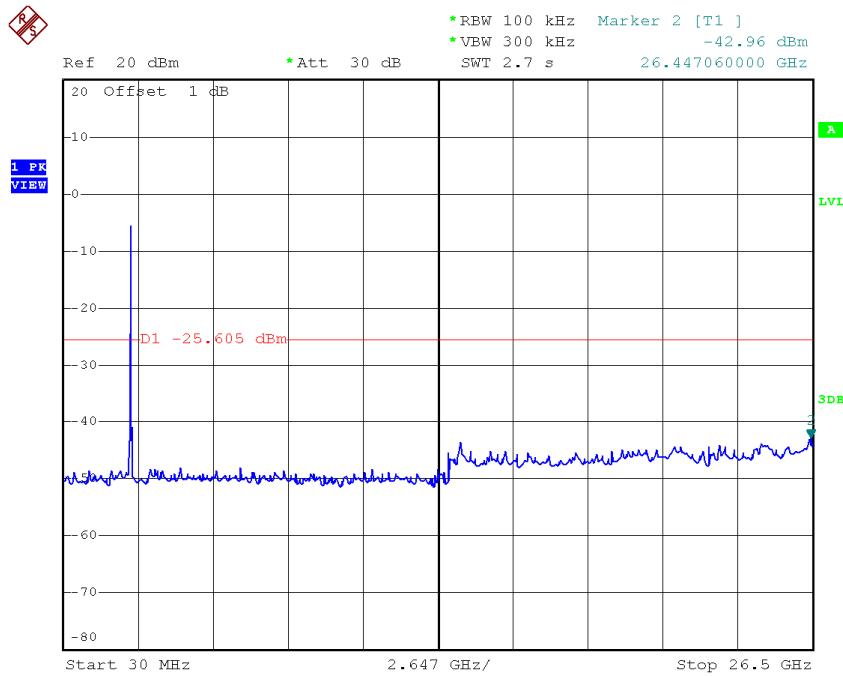
TX HT40 mode CH09



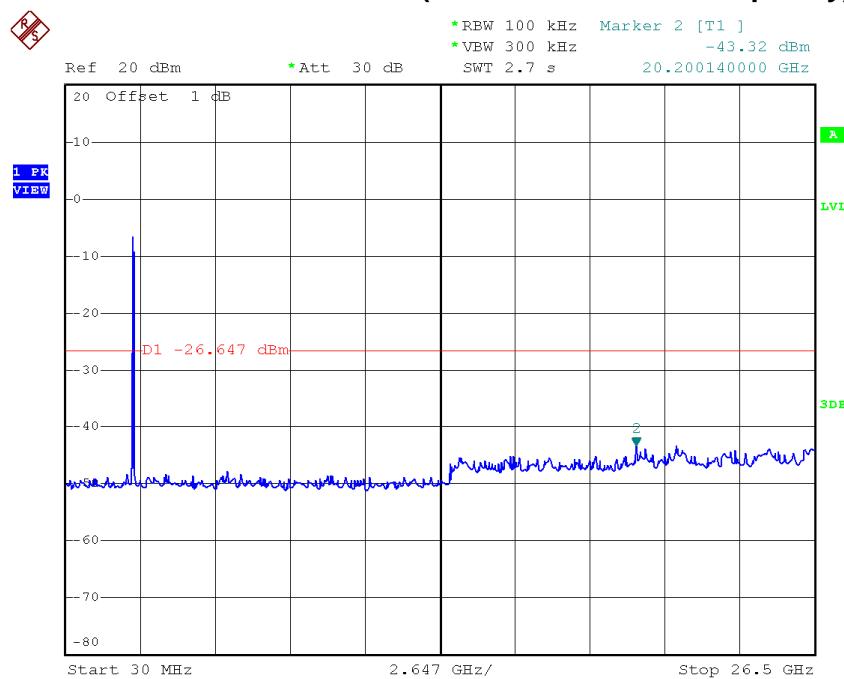
Date: 13.MAR.2015 14:26:14

TX HT40 mode CH03 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:23:17

TX HT40 mode CH06 (10 Harmonic of the frequency)

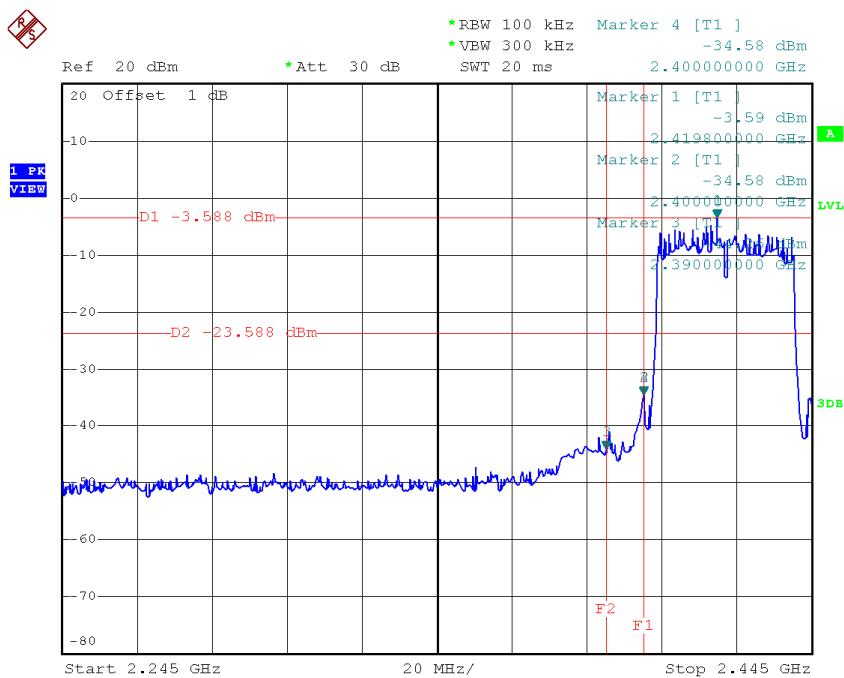
Date: 13.MAR.2015 14:24:21

TX HT40 mode CH09 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:26:06

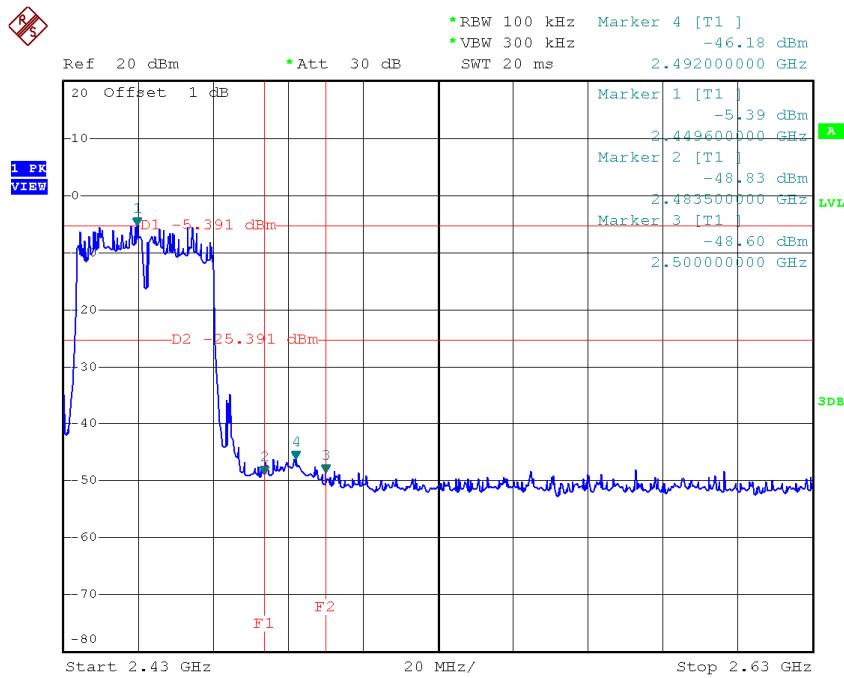
Test Mode : TX N-40M Mode_ANT 3

TX HT40 mode CH03

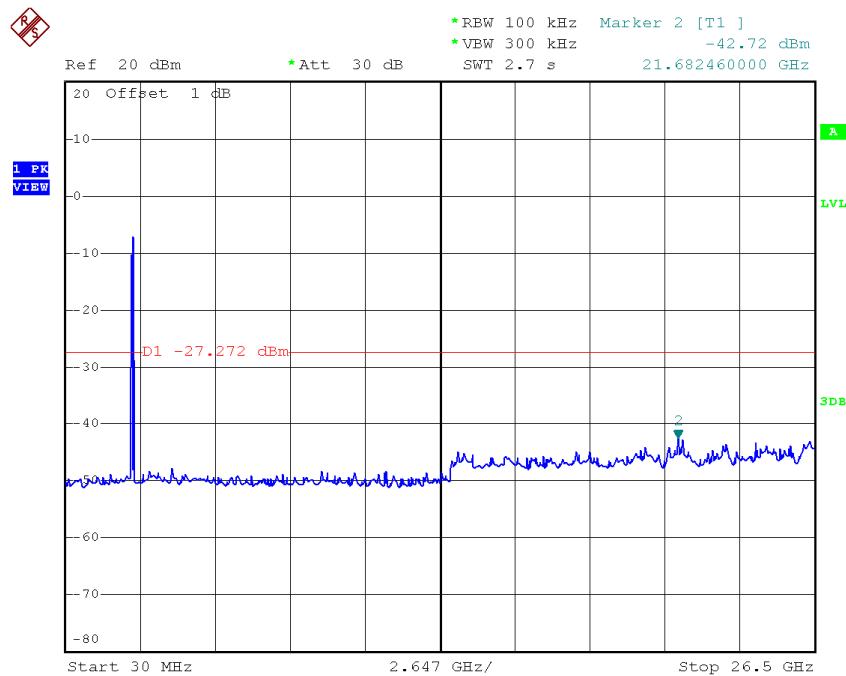


Date: 13.MAR.2015 14:19:08

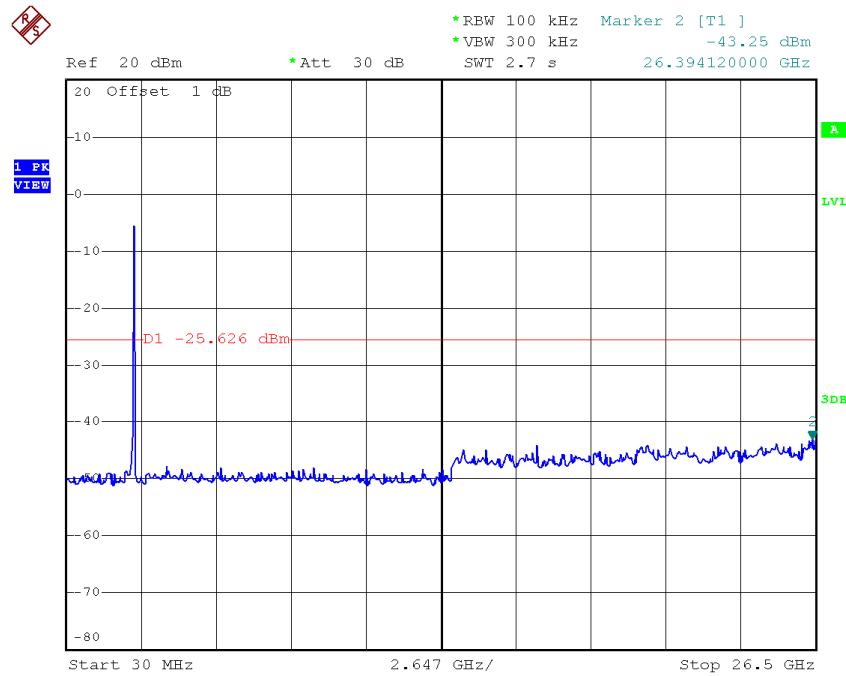
TX HT40 mode CH09



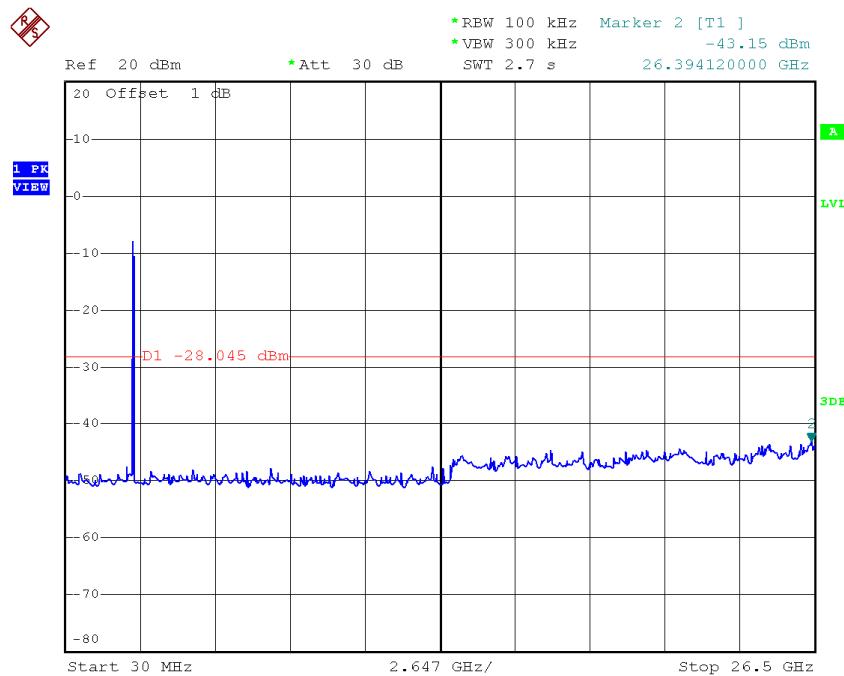
Date: 13.MAR.2015 14:21:17

TX HT40 mode CH03 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:19:01

TX HT40 mode CH06 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:20:03

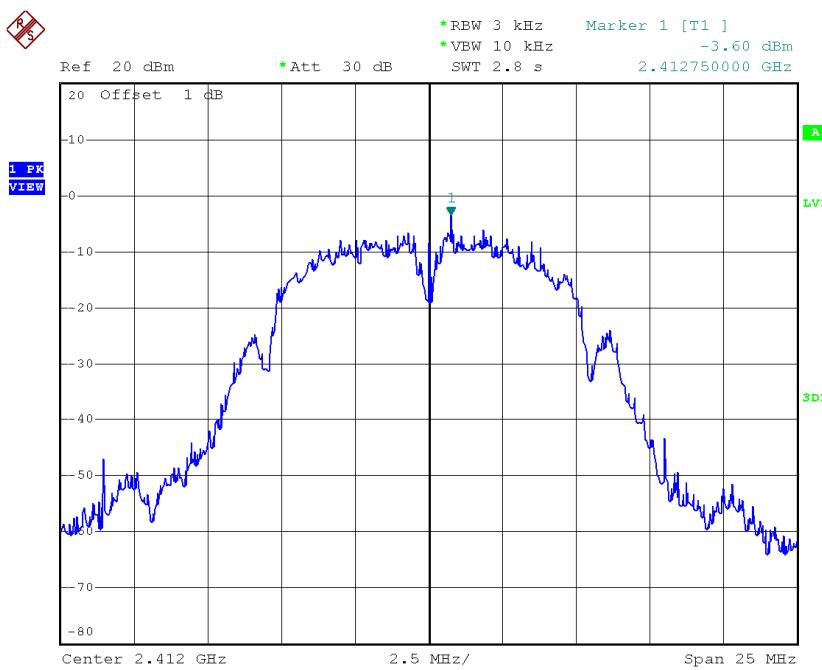
TX HT40 mode CH09 (10 Harmonic of the frequency)

Date: 13.MAR.2015 14:21:09

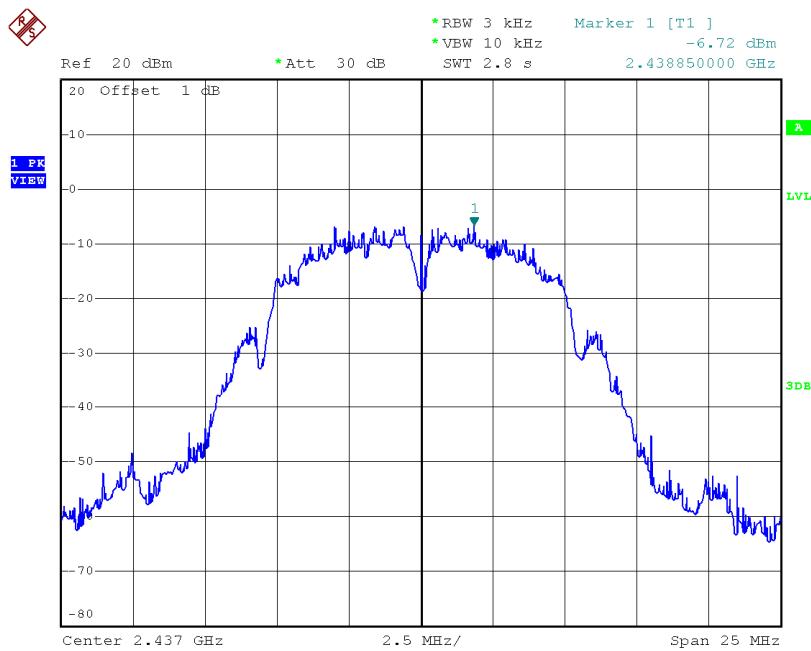
ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

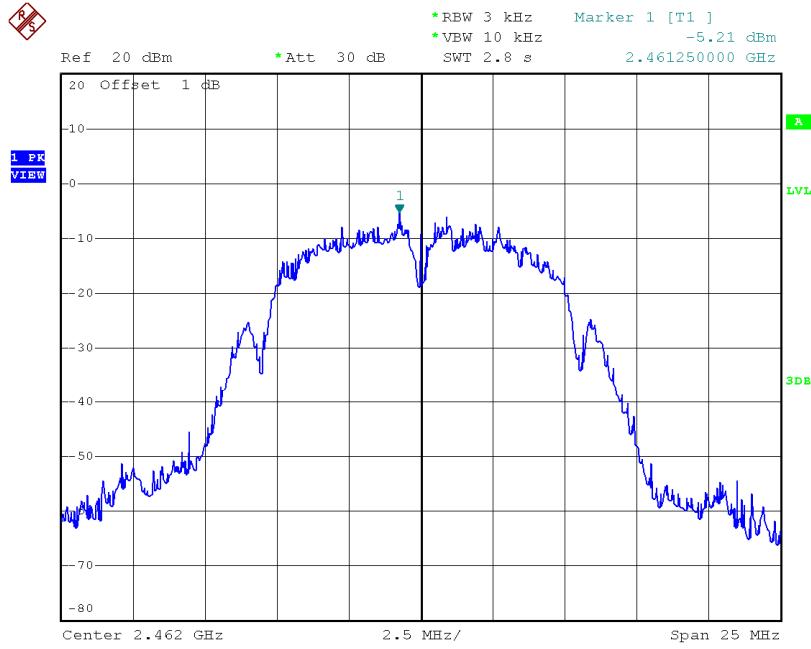
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-3.60	0.44	8.00	Complies
2437	-6.72	0.21	8.00	Complies
2462	-5.21	0.30	8.00	Complies

TX CH01


Date: 13.MAR.2015 13:51:18

TX CH06

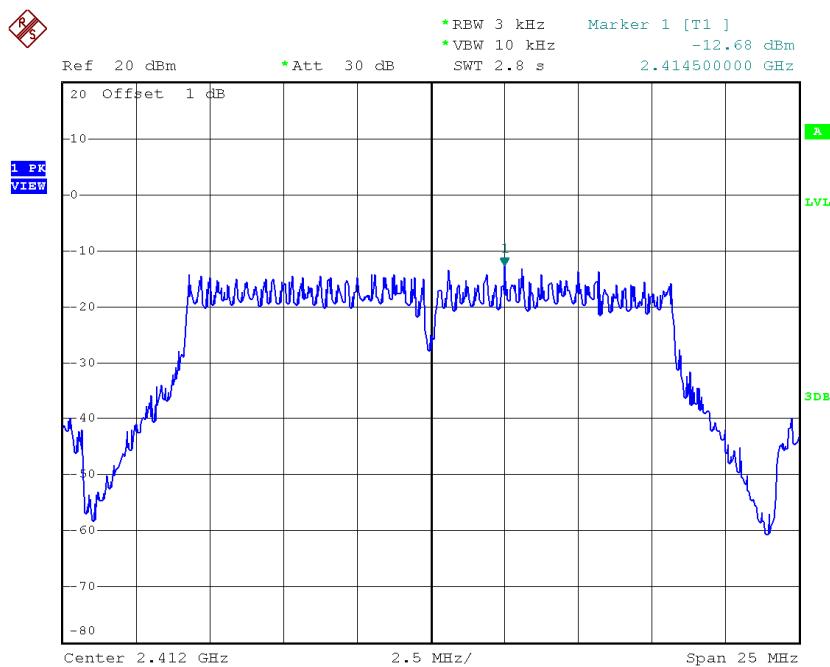
Date: 13.MAR.2015 13:52:11

TX CH11

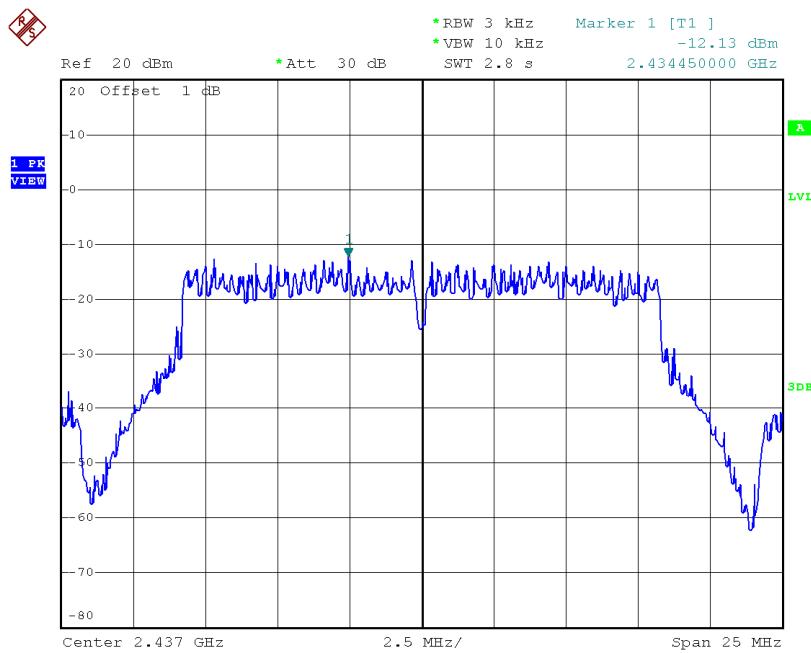
Date: 13.MAR.2015 13:53:21

Test Mode :TX G Mode_CH01/06/11

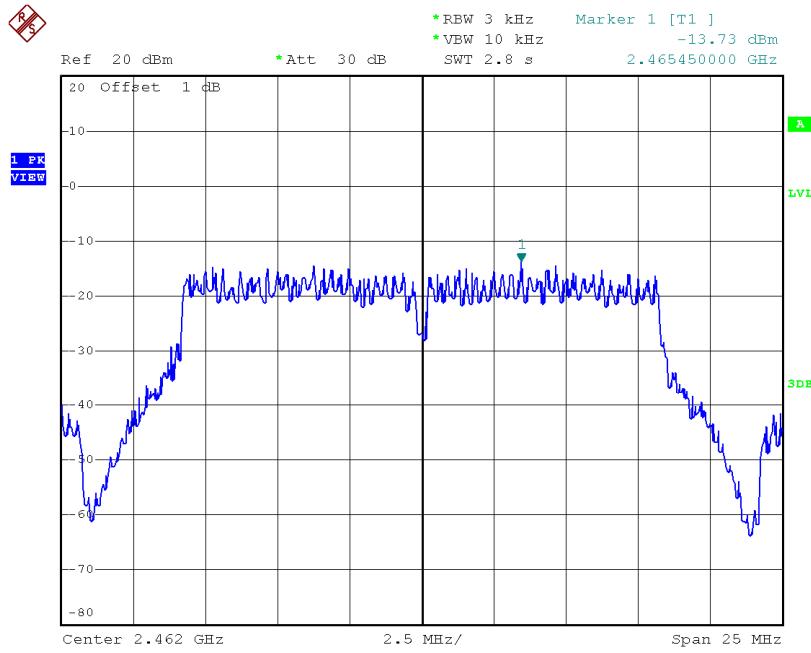
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.68	0.05	8.00	Complies
2437	-12.13	0.06	8.00	Complies
2462	-13.73	0.04	8.00	Complies

TX CH01

Date: 13.MAR.2015 13:55:38

TX CH06

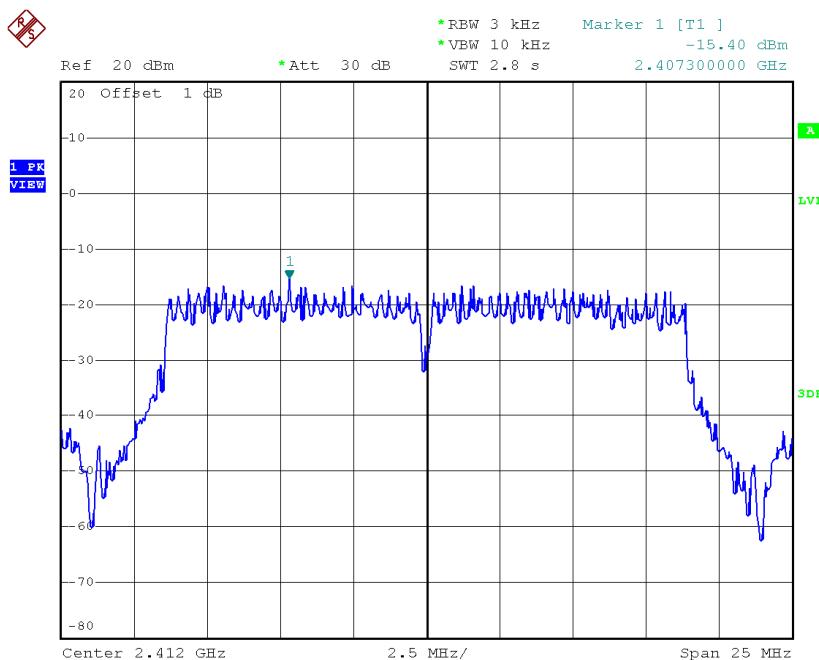
Date: 13.MAR.2015 13:56:27

TX CH11

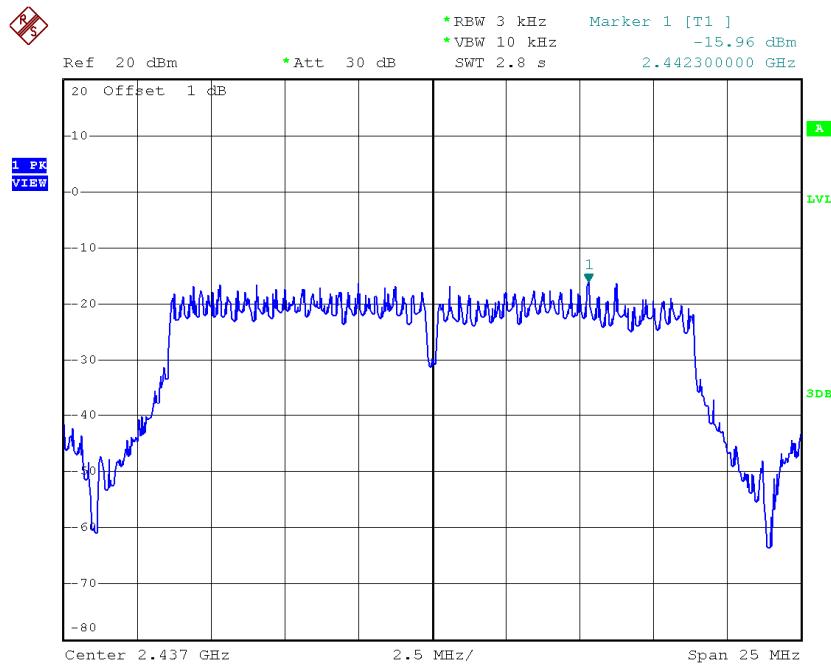
Date: 13.MAR.2015 13:57:42

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

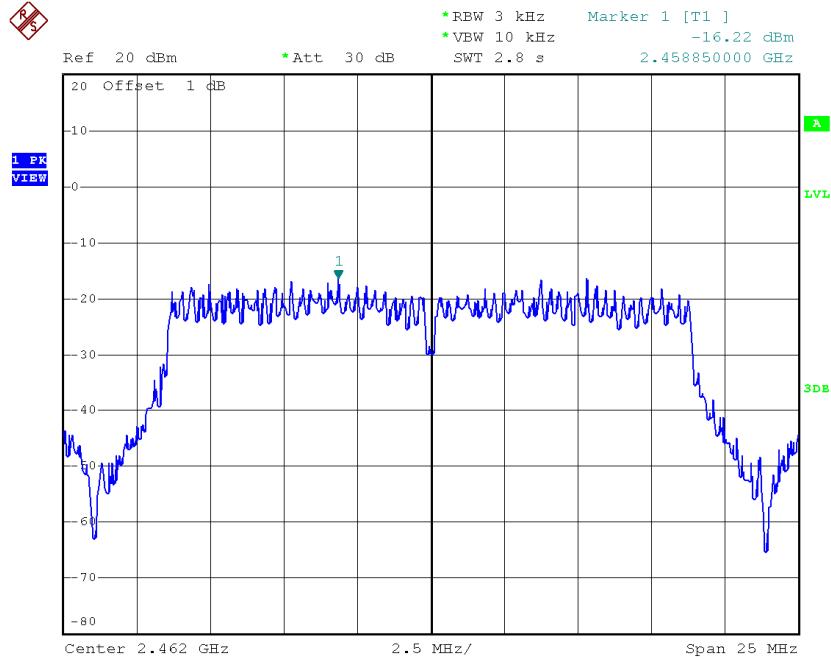
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.40	0.03	8.00	Complies
2437	-15.96	0.03	8.00	Complies
2462	-16.22	0.02	8.00	Complies

TX CH01


Date: 13.MAR.2015 14:04:29

TX CH06

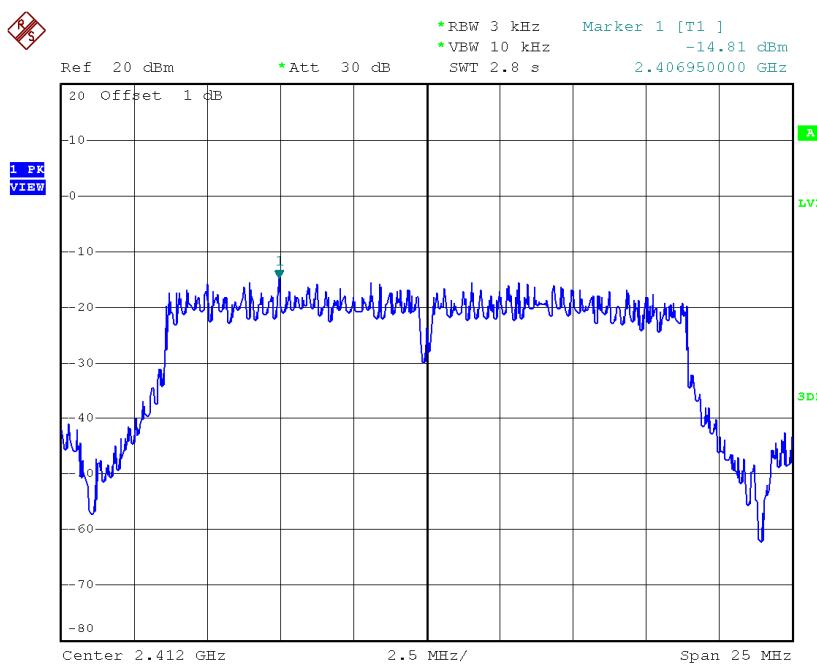
Date: 13.MAR.2015 14:05:24

TX CH11

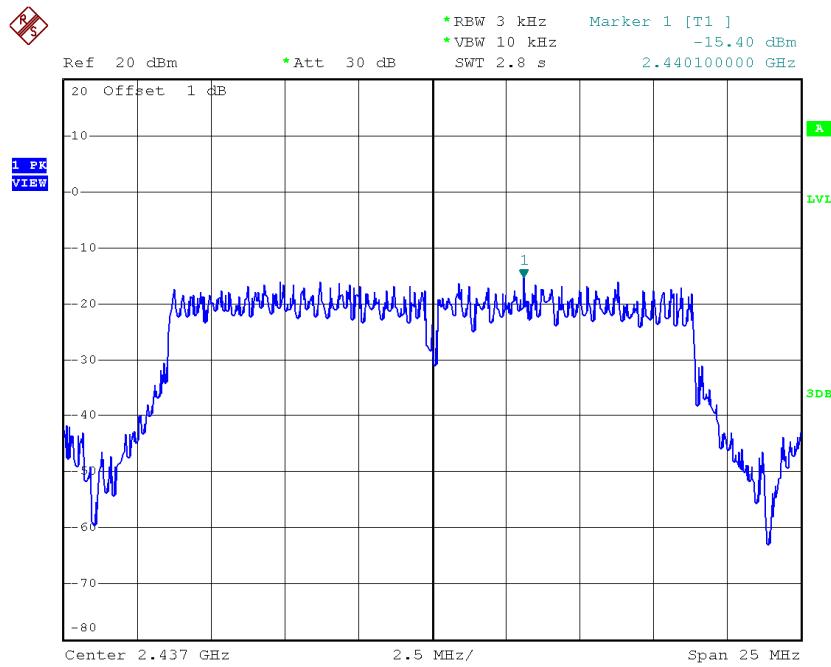
Date: 13.MAR.2015 14:06:21

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

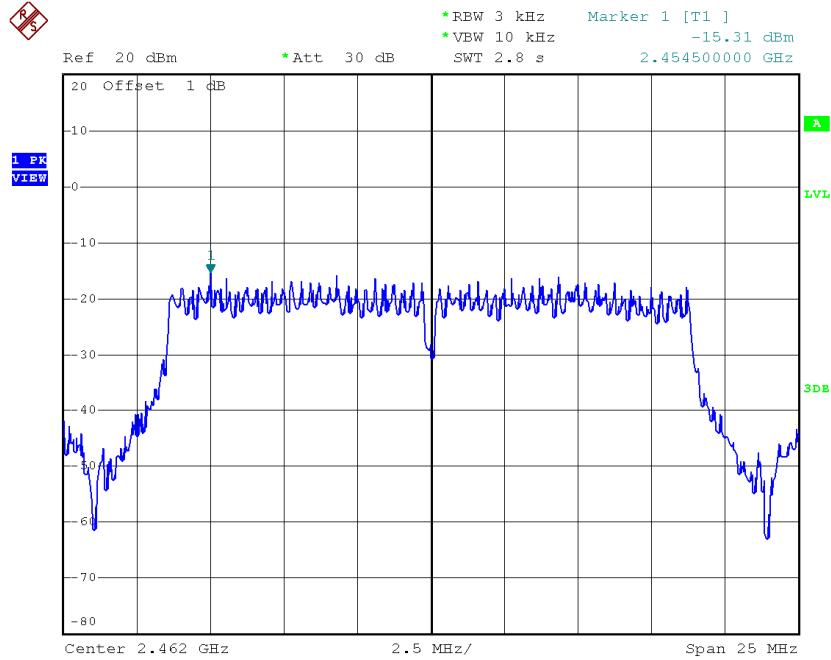
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.81	0.03	8.00	Complies
2437	-15.40	0.03	8.00	Complies
2462	-15.31	0.03	8.00	Complies

TX CH01


Date: 13.MAR.2015 14:08:27

TX CH06

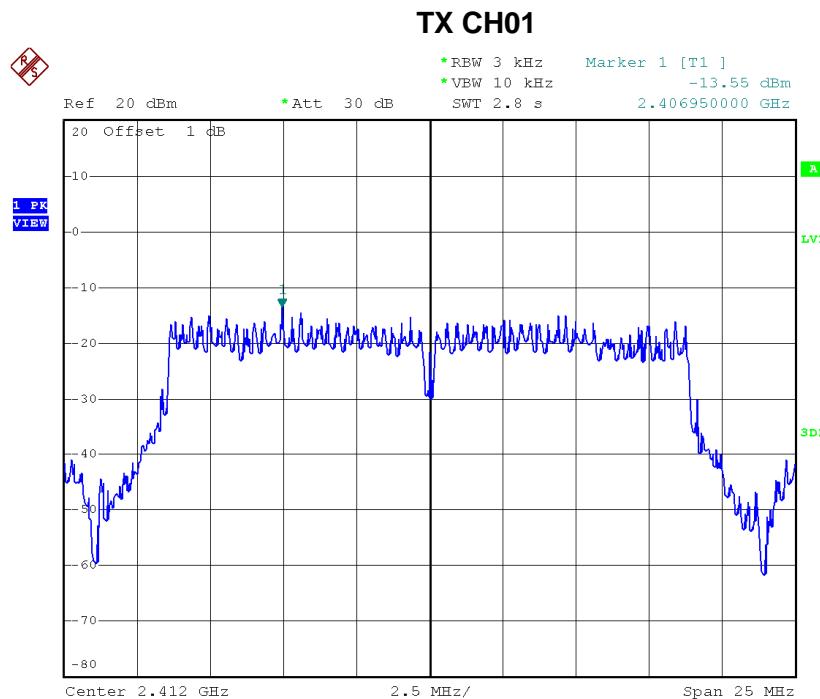
Date: 13.MAR.2015 14:09:14

TX CH11

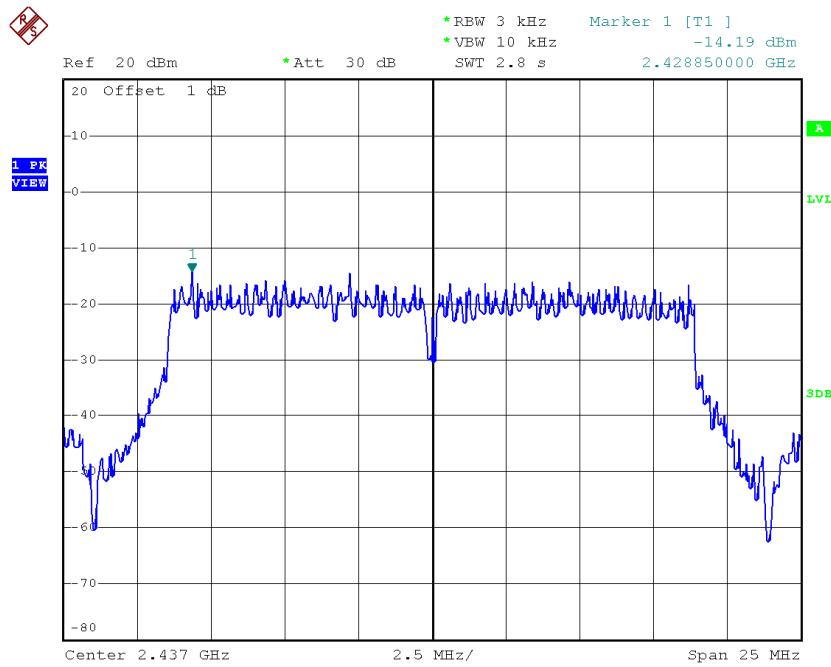
Date: 13.MAR.2015 14:10:11

Test Mode : TX N-20M Mode_CH01/06/11_ANT 3

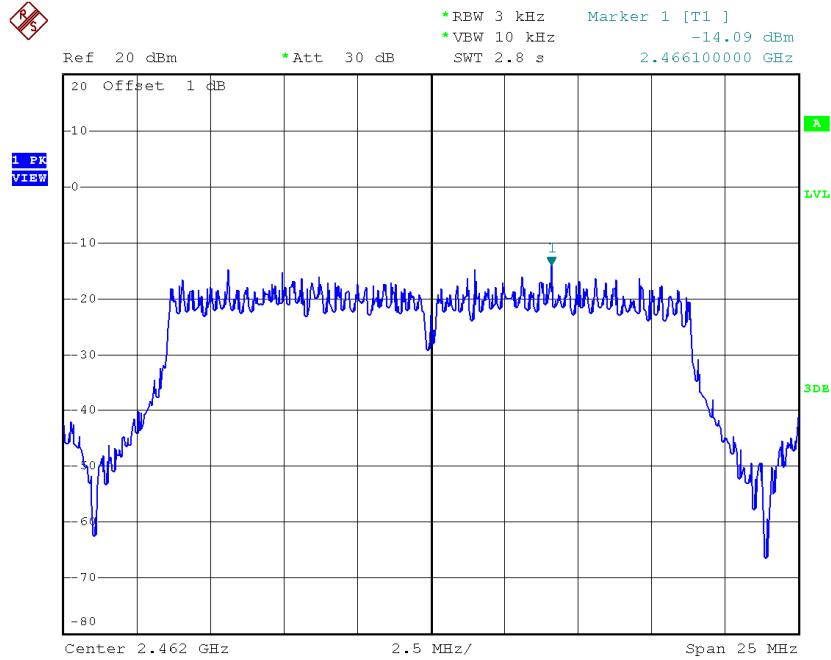
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.55	0.04	8.00	Complies
2437	-14.19	0.04	8.00	Complies
2462	-14.09	0.04	8.00	Complies



Date: 13.MAR.2015 14:13:20

TX CH06

Date: 13.MAR.2015 14:14:19

TX CH11

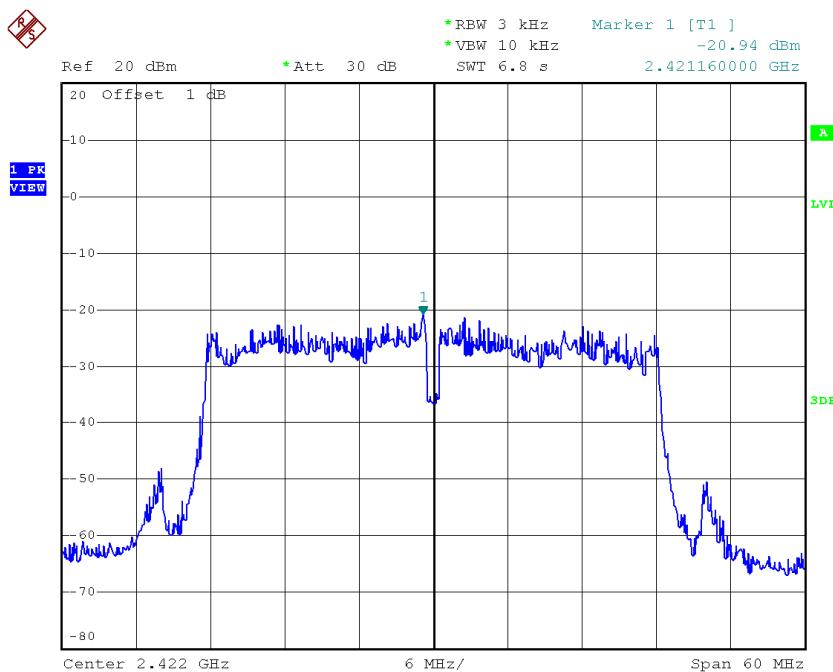
Date: 13.MAR.2015 14:15:32

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

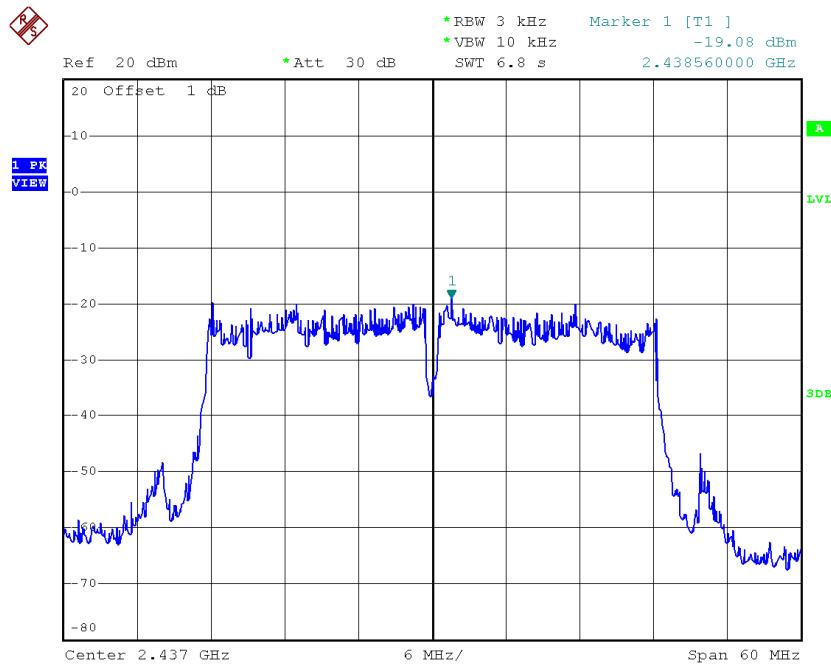
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.75	0.11	8.00	Complies
2437	-10.35	0.09	8.00	Complies
2462	-10.35	0.09	8.00	Complies

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

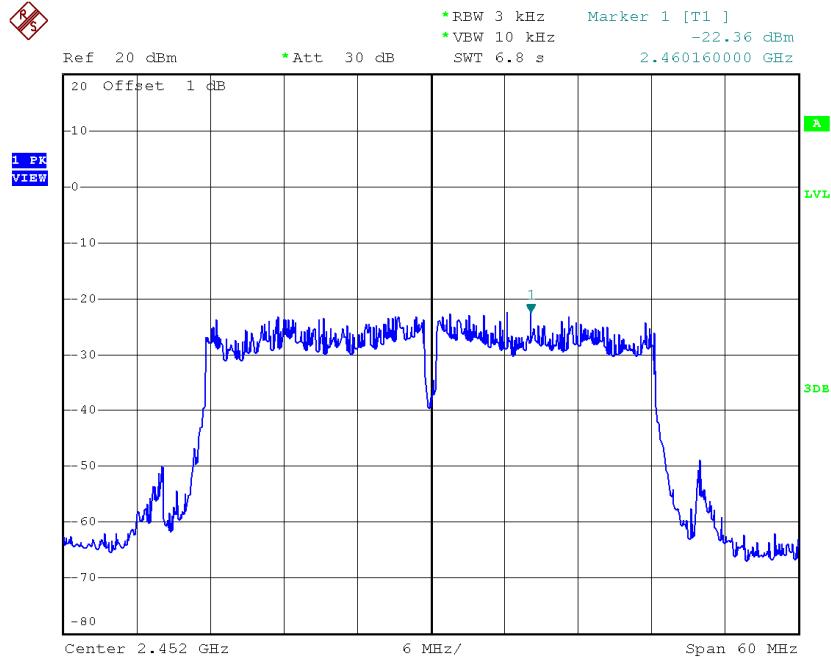
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-20.94	0.01	8.00	Complies
2437	-19.08	0.01	8.00	Complies
2452	-22.36	0.01	8.00	Complies

TX CH03

Date: 13.MAR.2015 14:28:46

TX CH06

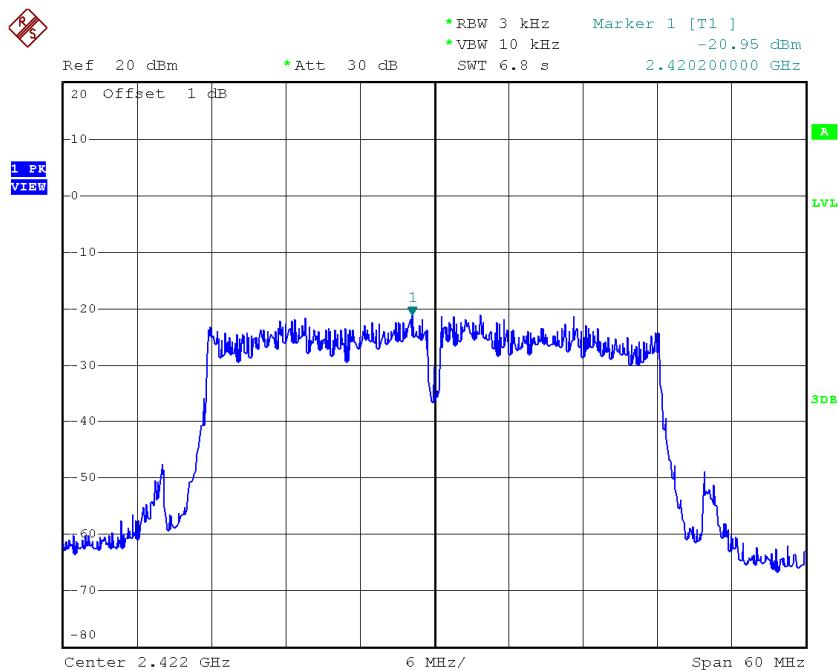
Date: 13.MAR.2015 14:29:49

TX CH09

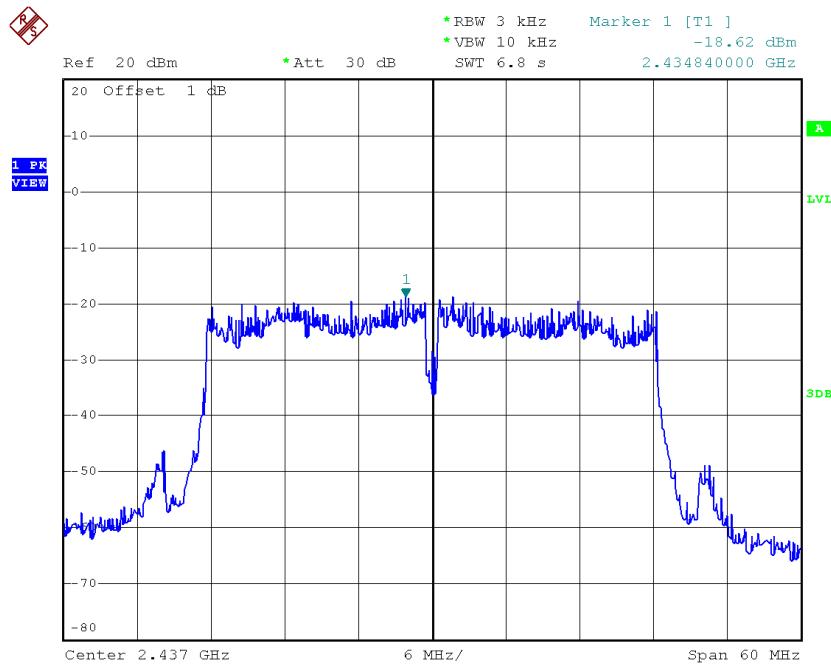
Date: 13.MAR.2015 14:31:07

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

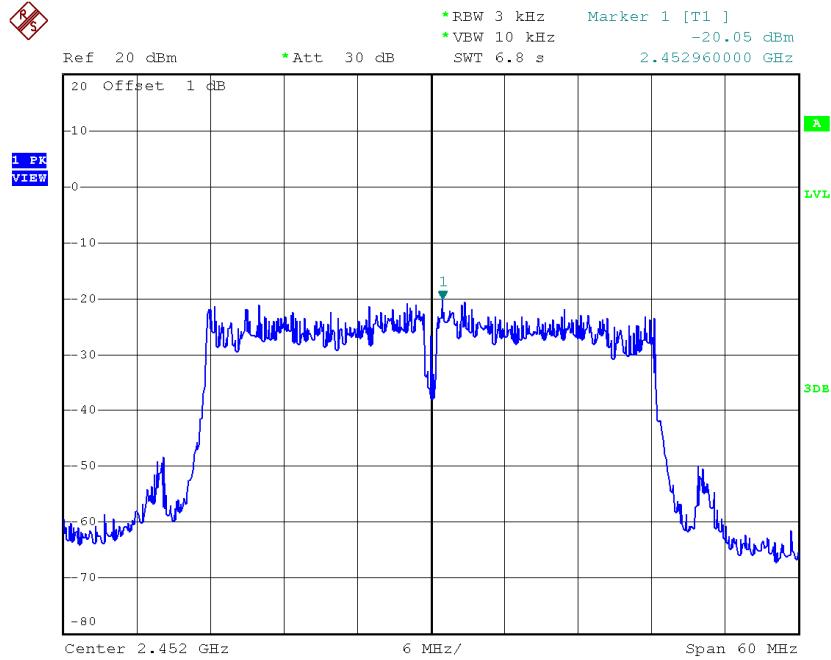
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-20.95	0.01	8.00	Complies
2437	-18.62	0.01	8.00	Complies
2452	-20.05	0.01	8.00	Complies

TX CH03


Date: 13.MAR.2015 14:23:36

TX CH06

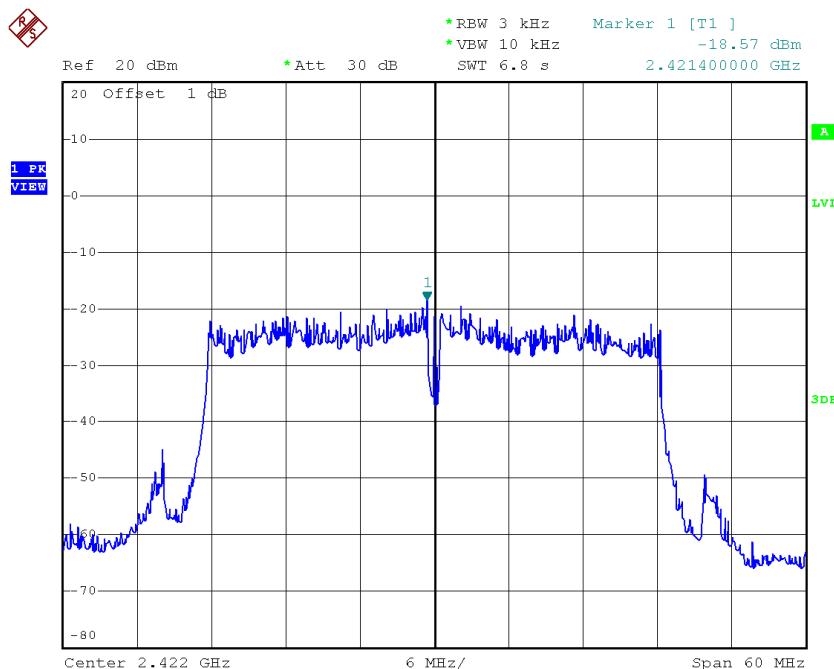
Date: 13.MAR.2015 14:24:33

TX CH09

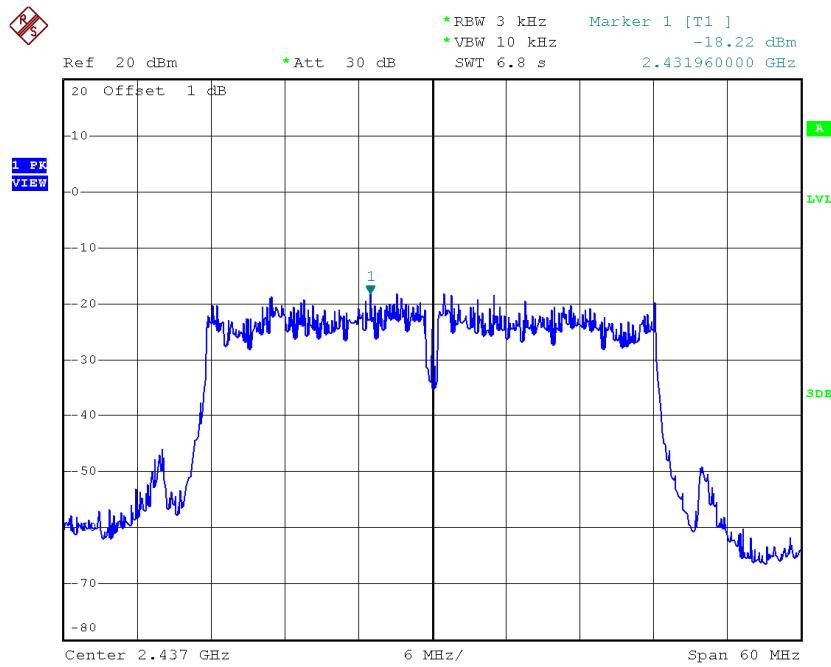
Date: 13.MAR.2015 14:26:25

Test Mode : TX N-40M Mode_CH03/06/09_ANT 3

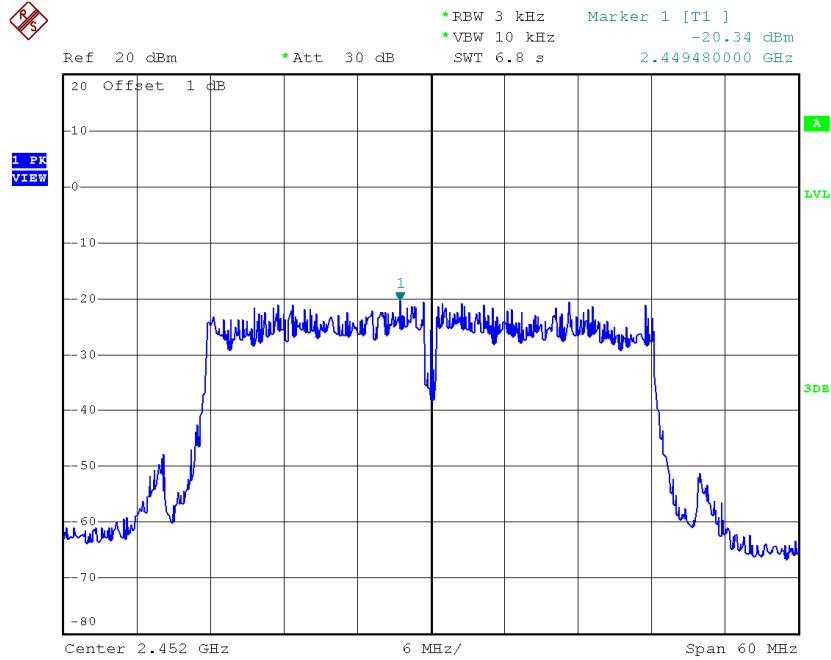
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.57	0.01	8.00	Complies
2437	-18.22	0.02	8.00	Complies
2452	-20.34	0.01	8.00	Complies

TX CH03


Date: 13.MAR.2015 14:19:20

TX CH06

Date: 13.MAR.2015 14:20:15

TX CH09

Date: 13.MAR.2015 14:21:29

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	-15.23	0.03	8.00	Complies
2437	-13.85	0.04	8.00	Complies
2452	-16.03	0.02	8.00	Complies