FCC Radio Test Report

FCC ID: 2ACIP-RP-WD03

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

Project No.	:	1503C264
Equipment	:	ALL-IN-1 FILEHUB
Model Name	:	RP-WD03
Applicant	:	Hootoo.com Inc
Address	:	2880 Zanker Road STE 203 San Jose, CA95134

Date of Receipt	:	Apr. 03, 2015
Date of Test	:	Apr. 03, 2015 ~ Apr. 15, 2015
Issued Date	:	Apr. 16, 2015
Tested by	:	BTL Inc.

Testing Engineer : David Mao
(David Mao)

Technical Manager : Leo Hung
(Leo Hung)

Authorized Signatory : Steven Lu
(Steven Lu)

BTL INC.

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 manufacture'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 105
ATTACHMENT H - POWER SPECTRAL DENSITY 138

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1503C264	Original Issue.	Apr. 16, 2015

1. CERTIFICATION

Equipment	:	ALL-IN-1 FILEHUB
Brand Name	:	RAVPOWER
Model Name	:	RP-WD03
Applicant	:	Hootoo.com Inc
Manufacturer	:	Power7 Technology(Dongguan)Co., Ltd
Address	:	No.28 Binjiang St.shishuikou Village, Qiaotou Town, Dongguan City,GuangDong Province P.R.China
Factory Address	:	Power7 Technology(Dongguan)Co., Ltd No.28 Binjiang St.shishuikou Village, Qiaotou Town, Dongguan City,GuangDong Province P.R.China
Date of Test	:	Apr. 03, 2015 ~ Apr. 15, 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-1-1503C264) 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 **FCC**	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.209/15.205	Transmitter Radiated Emissions	PASS	

NOTE:

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

(2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r02 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

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

The reported uncertainty of measurement y ± 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-C 03	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	ALL-IN-1 FILEHUB	
Brand Name	RAVPOWER	
Model Name	RP-WD03	
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
	Peak Output Power (Max.)	802.11b: 20.19dBm 802.11g: 22.06dBm 802.11n(20MHz): 22.69dBm 802.11n(40MHz): 22.54dBm
	Average Output Power (Max.)	802.11b: 16.73dBm 802.11g: 14.56dBm 802.11n(20MHz): 14.69dBm 802.11n(40MHz): 14.56dBm
Power Source	#1 Supplied from Battery. Brand / Model: SAMSUNG / ICR18650-30B #2 Supplied from USB port for charging. #3 DC voltage supplied from AC/DC adapter.(support unit)	
Power Rating	#1 DC 3.7V / 1A #2 DC 5V / 1A #3 EUT I/P DC 5V	

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.	Brand	Model Name	Antenna	Connect	Gain	Note
1	RIMON TECHNOLOGY CO., LTD	WAN3216F2 45C04	Internal	N/A	2.00	TX/RX
2	DONGGUAN SENLING INDUSTRIAL CO.,	2G4321612C	Internal	N/A	0.50	TX/RX

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

4.

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

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

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%.

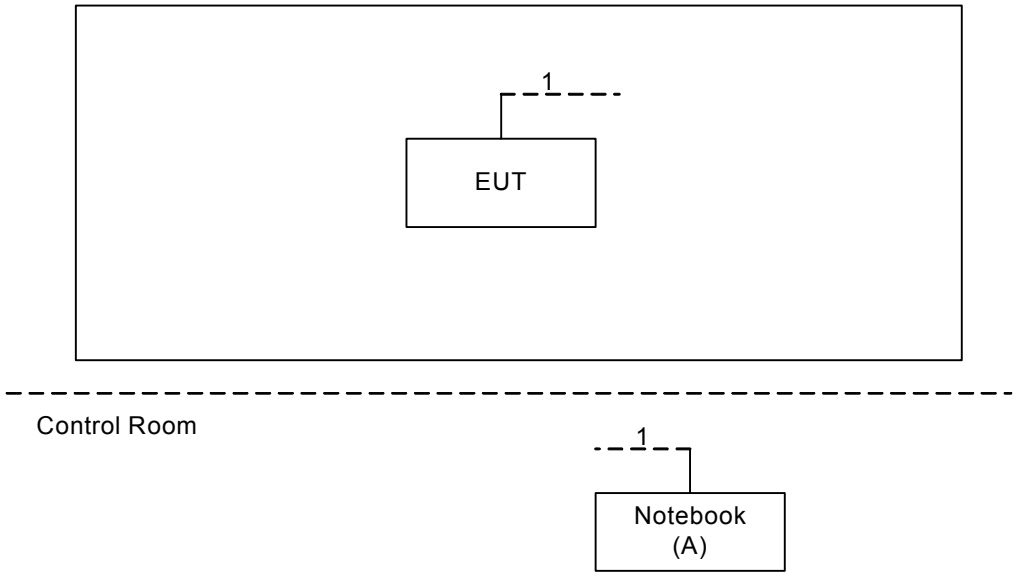
(5) Radiated testing mode: Keeping MIMO TX mode.

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	RT5x7xQA		
Frequency (MHz)	2412	2437	2462
802.11b	6,12	6,12	6,12
802.11g	0,0A	0,0A	0,0A
802.11n (20MHz)	0,0B	0,0B	0,0B
Frequency	2422	2437	2452
802.11n (40MHz)	3,0E	3,0E	3,0E

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
A	Notebook	DELL	Inspiron 14-3437	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	8m	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 (dBμV)	
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

(2) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

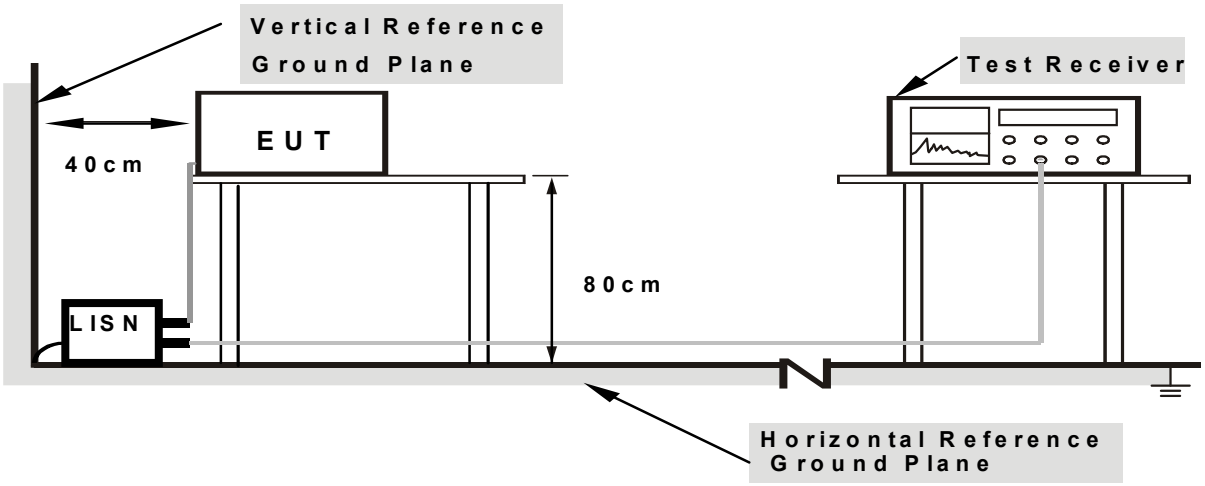
d. LISN at least 80 cm from nearest part of EUT chassis.

e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

Temperature: 21°C Relative Humidity: 51% 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

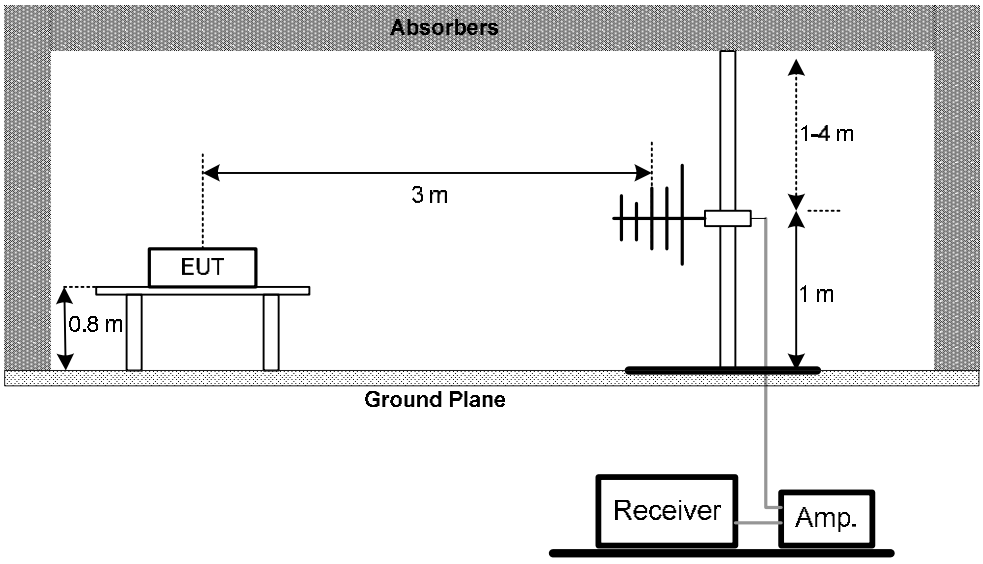
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a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

4.2.3 DEVIATION FROM TEST STANDARD

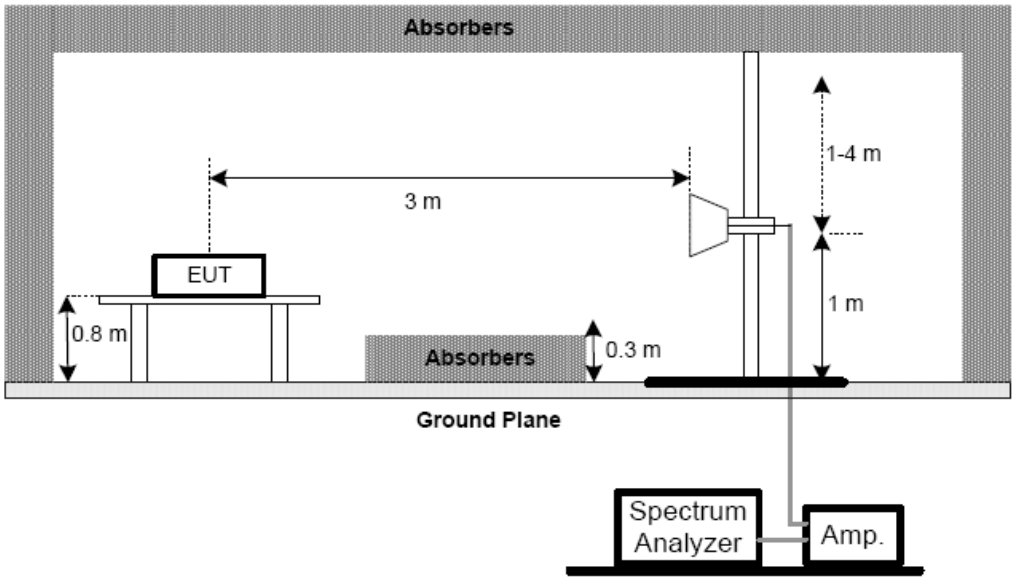
No deviation

4.2.4 TEST SETUP

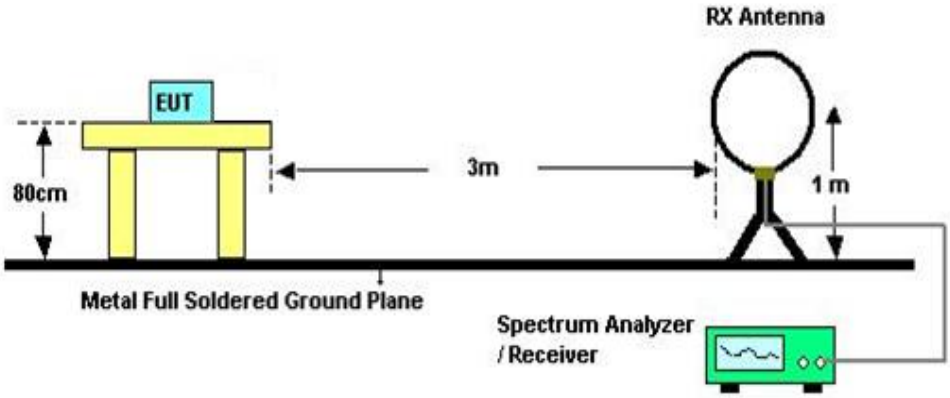
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: 24°C Relative Humidity: 52% Test Voltage: DC 3.7V

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

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

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

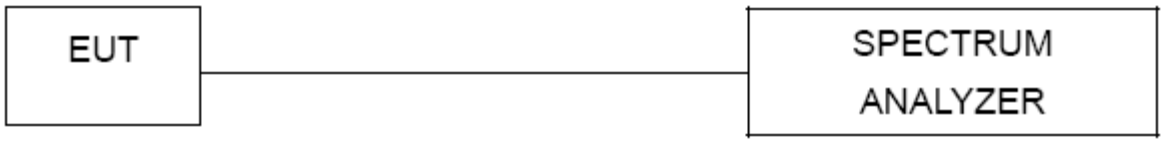
5.1.1 TEST PROCEDURE

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: 24°C Relative Humidity: 52% Test Voltage: DC 3.7V

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

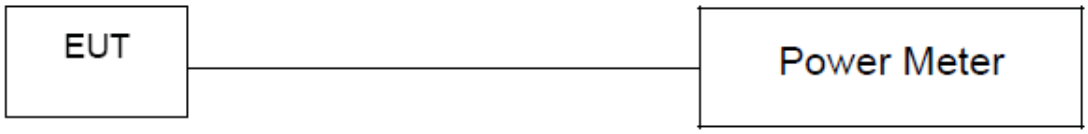
6.1.1 TEST PROCEDURE

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: 24°C Relative Humidity: 52% Test Voltage: DC 3.7V

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.

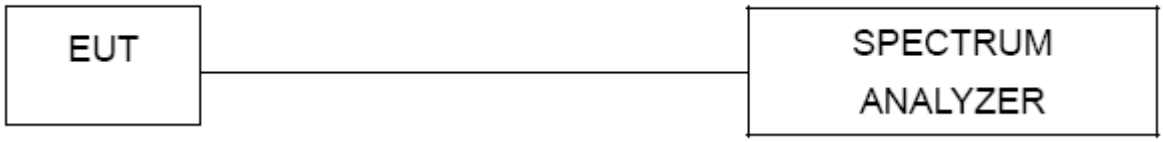
7.1.1 TEST PROCEDURE

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: 24°C Relative Humidity: 52% Test Voltage: DC 3.7V

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

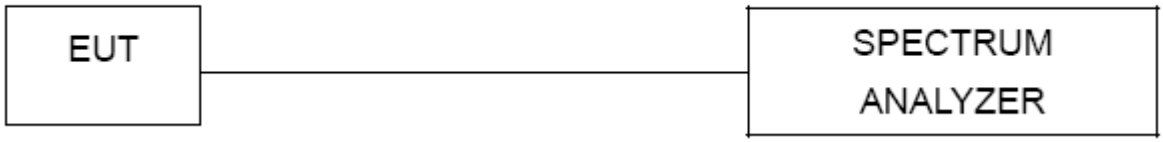
8.1.1 TEST PROCEDURE

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: 24°C Relative Humidity: 52% Test Voltage: DC 3.7V

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	Nov. 17, 2015
3	Receiver	AGILENT	N9038A	MY52130039	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	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
7	Antenna	ETS	3115	00075789	Mar. 28, 2016
8	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
9	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
10	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
11	Controller	CT	SC100	N/A	N/A
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
14	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 16, 2015

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	power Meter	ANRITSU	ML2495A	1128009	Mar. 28, 2016
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 28, 2016

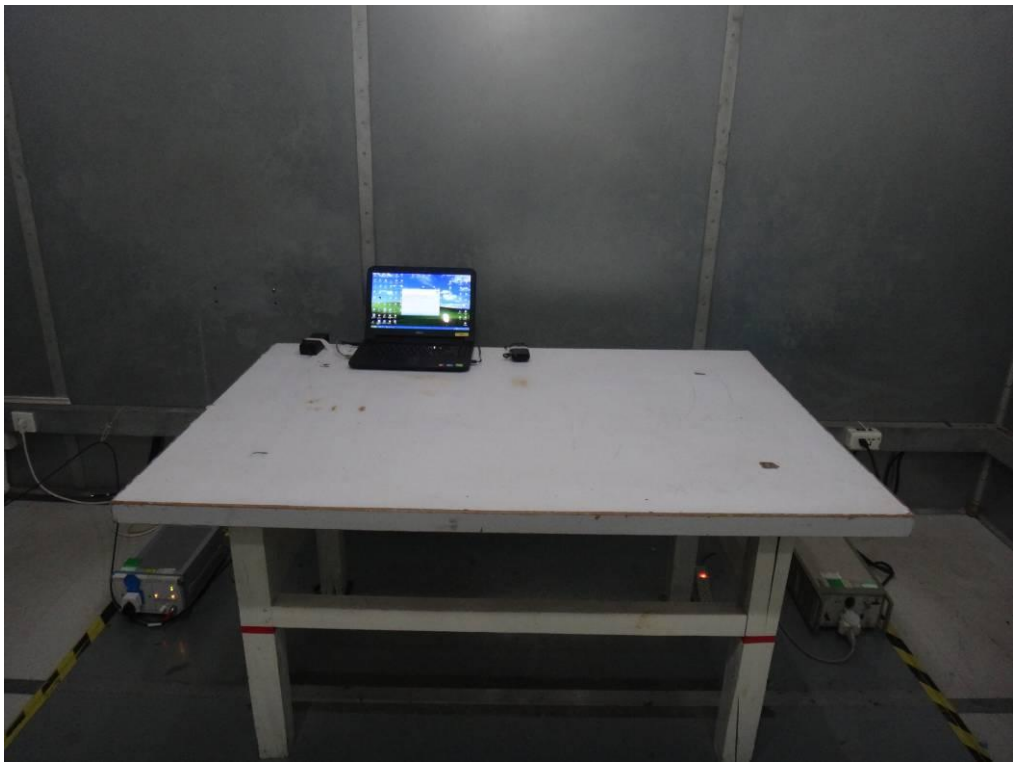
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

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

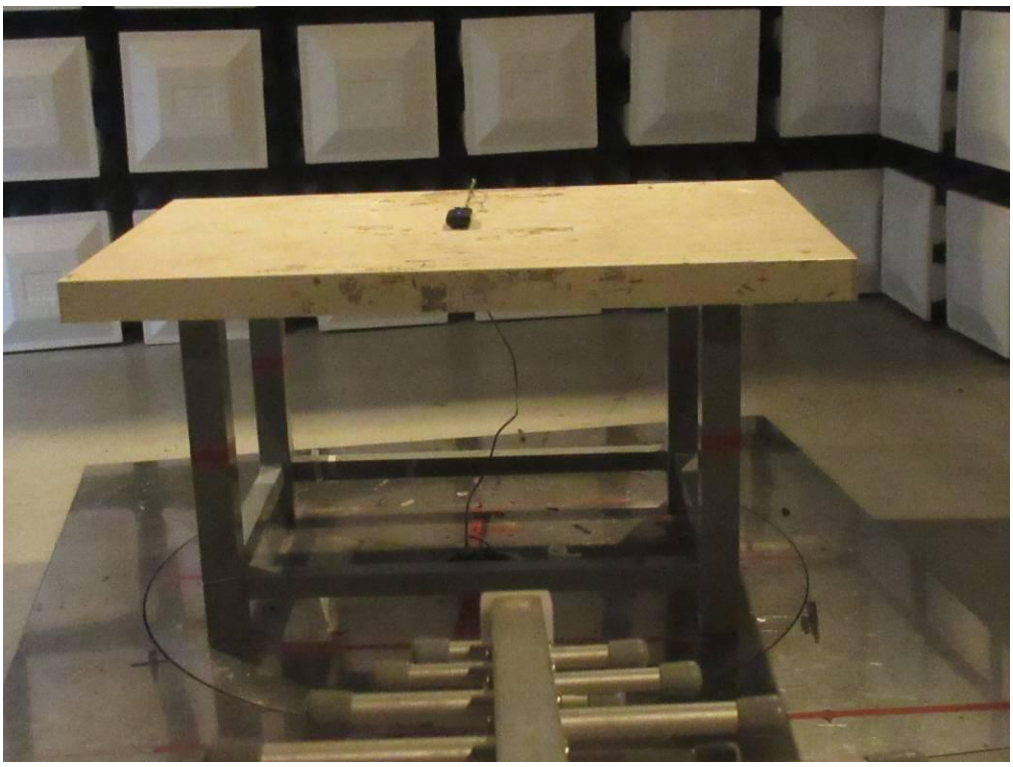


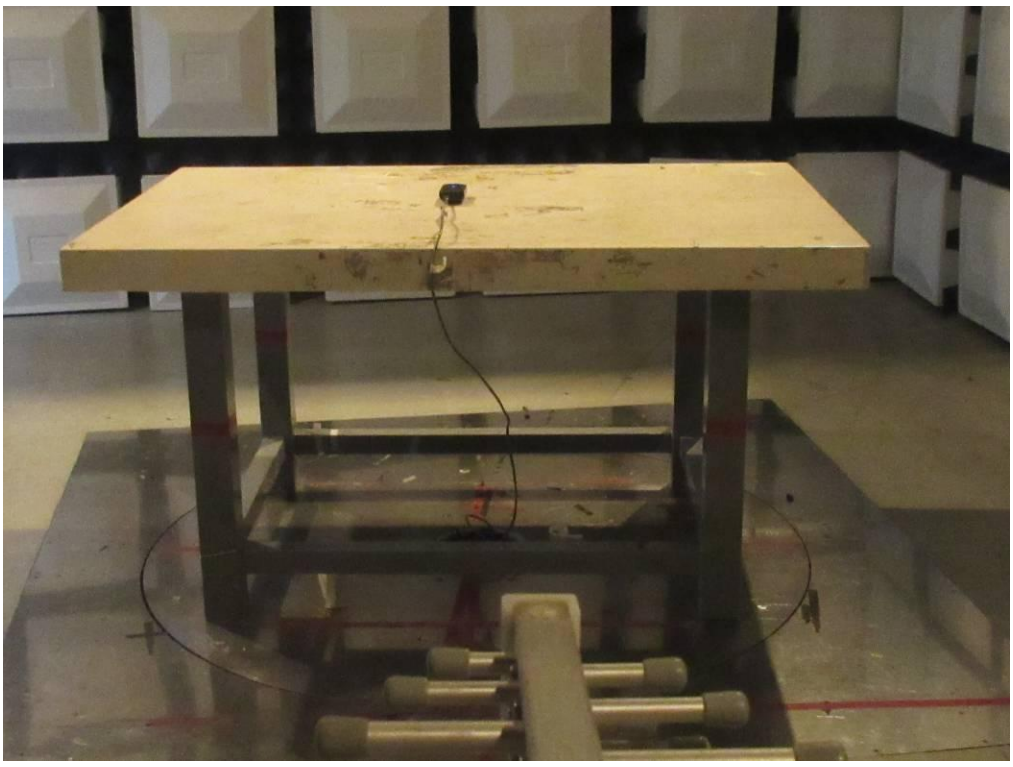
Radiated Measurement Photos

9KHz to 30MHz

Radiated Measurement Photos

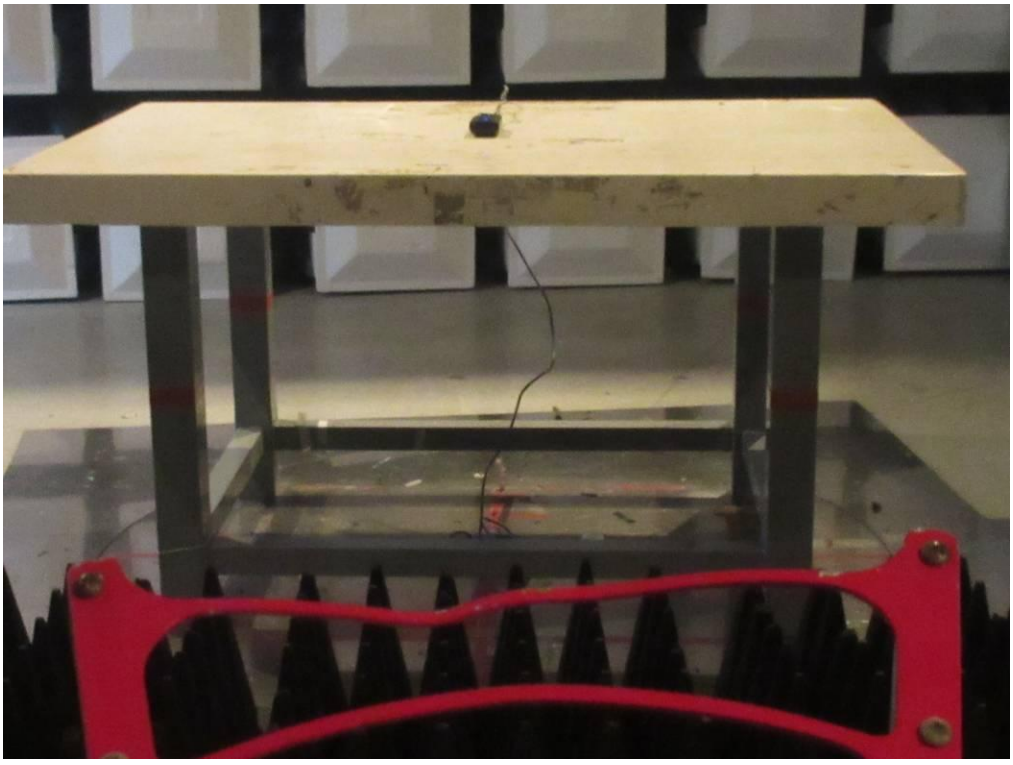
30MHz to 1000MHz

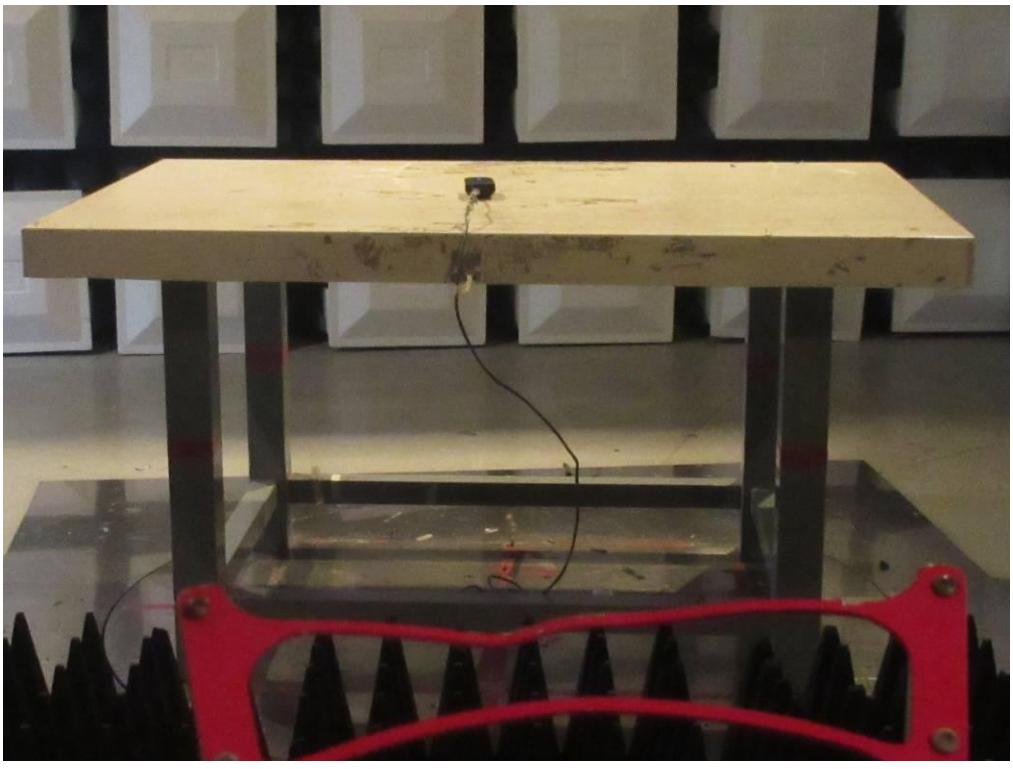




Radiated Measurement Photos

Above 1000MHz

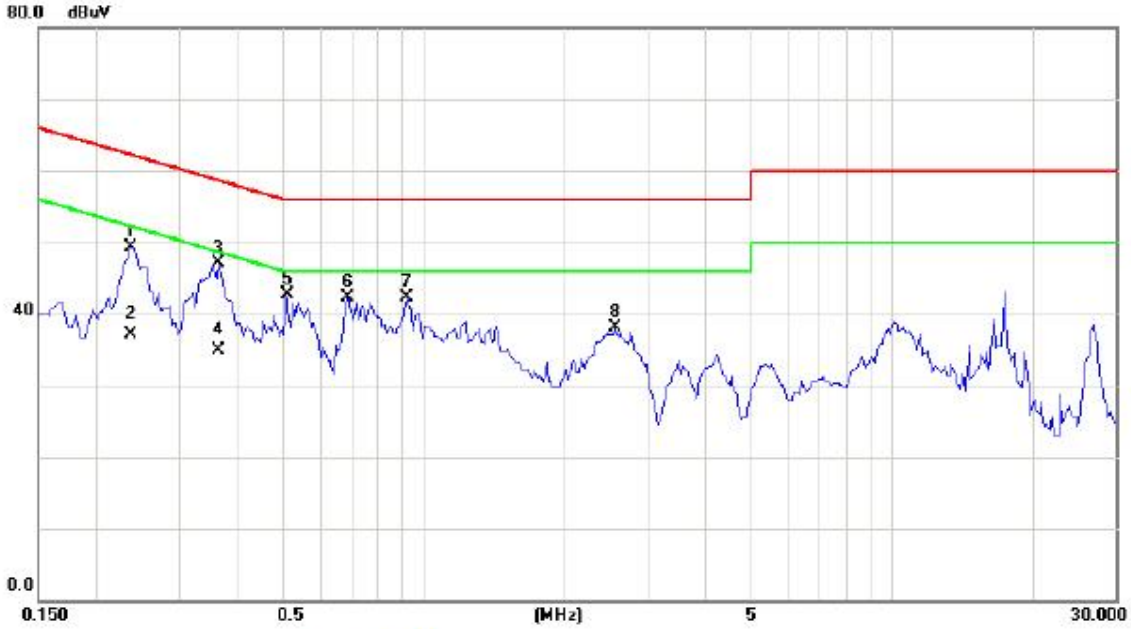




ATTACHMENT A - CONDUCTED EMISSION

Test Mode :	TX MODE

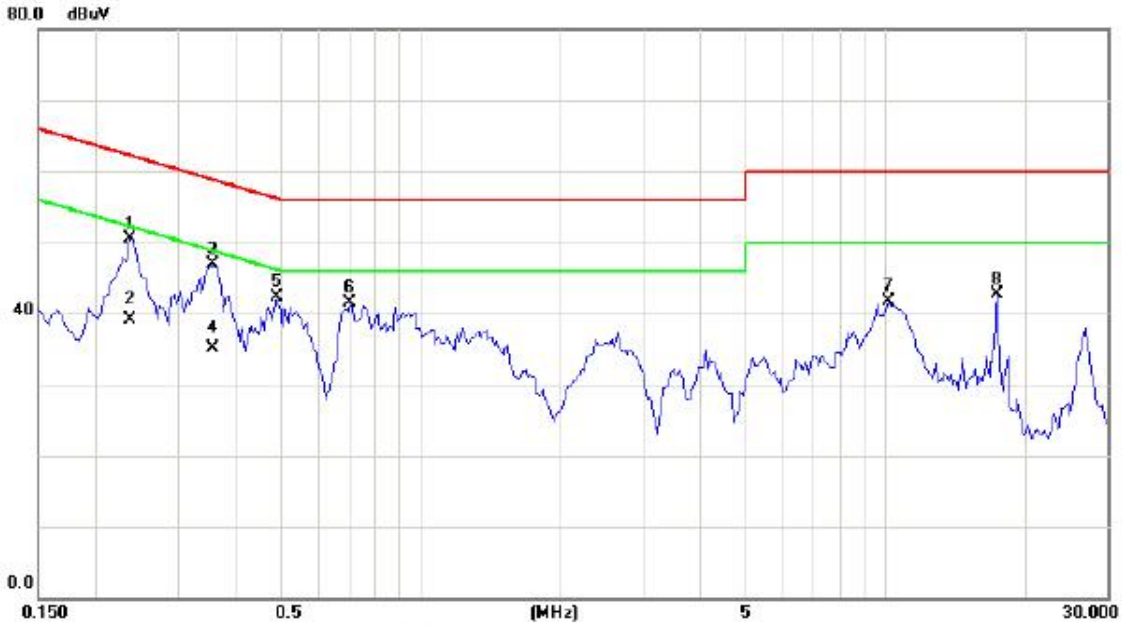
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2360	39.80	9.54	49.34	62.24	-12.90	peak	
2		0.2360	27.61	9.54	37.15	52.24	-15.09	AVG	
3	*	0.3648	37.52	9.57	47.09	58.62	-11.53	peak	
4		0.3648	25.32	9.57	34.89	48.62	-13.73	AVG	
5		0.5094	33.16	9.59	42.75	56.00	-13.25	peak	
6		0.6852	32.74	9.62	42.36	56.00	-13.64	peak	
7		0.9195	32.58	9.64	42.22	56.00	-13.78	peak	
8		2.5602	28.26	9.76	38.02	56.00	-17.98	peak	

Test Mode :	TX MODE

Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2360	41.02	9.53	50.55	62.24	-11.69	peak	
2		0.2360	29.55	9.53	39.08	52.24	-13.16	AVG	
3		0.3570	37.28	9.56	46.84	58.80	-11.96	peak	
4		0.3570	25.62	9.56	35.18	48.80	-13.62	AVG	
5		0.4898	32.80	9.58	42.38	56.17	-13.79	peak	
6		0.7007	31.98	9.60	41.58	56.00	-14.42	peak	
7		10.1758	31.56	10.17	41.73	60.00	-18.27	peak	
8		17.3905	32.06	10.55	42.61	60.00	-17.39	peak	

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

Test Mode:	TX Mode 2412MHz

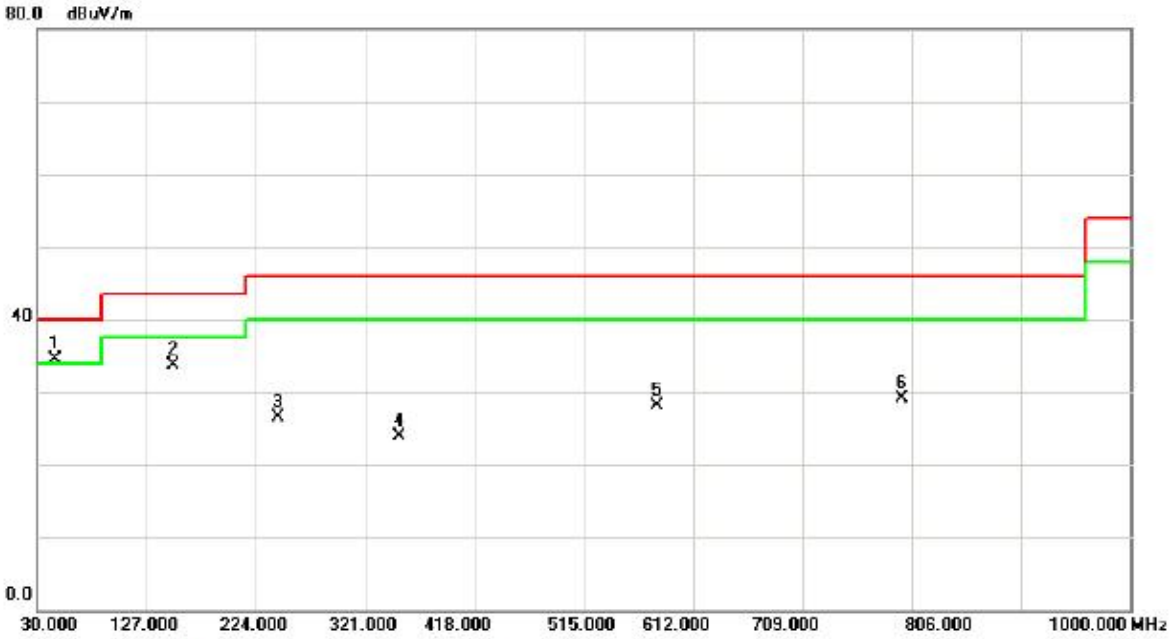
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0046	0°	11.83	25.28	37.11	114.35	-77.24	AVG
0.0046	0°	13.56	25.28	38.84	134.35	-95.51	PEAK
0.0357	0°	5.37	23.31	28.68	96.55	-67.88	AVG
0.0357	0°	6.85	23.31	30.16	116.55	-86.40	PEAK
0.0526	0°	4.32	22.35	26.67	93.18	-66.52	AVG
0.0526	0°	4.88	22.35	27.23	113.18	-85.96	PEAK
0.0752	0°	0.95	21.90	22.85	90.08	-67.23	AVG
0.0752	0°	3.18	21.90	25.08	110.08	-85.00	PEAK
0.4960	0°	29.25	19.81	49.06	73.69	-24.63	QP
1.8340	0°	21.79	19.52	41.31	69.54	-28.23	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0037	90°	11.52	24.30	35.82	136.24	-100.42	AVG
0.0037	90°	13.86	24.30	38.16	156.24	-118.08	PEAK
0.0147	90°	7.01	24.30	31.31	124.26	-92.95	AVG
0.0147	90°	9.03	24.30	33.33	144.26	-110.93	PEAK
0.0343	90°	4.25	23.39	27.64	116.90	-89.25	AVG
0.0343	90°	5.42	23.39	28.81	136.90	-108.08	PEAK
0.0412	90°	1.21	22.96	24.17	115.31	-91.14	AVG
0.0412	90°	2.51	22.96	25.47	135.31	-109.84	PEAK
0.7210	90°	29.83	20.51	50.34	70.45	-20.11	QP
1.3080	90°	22.48	19.57	42.05	65.27	-23.22	QP

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

Test Mode:	TX B MODE CHANNEL 01

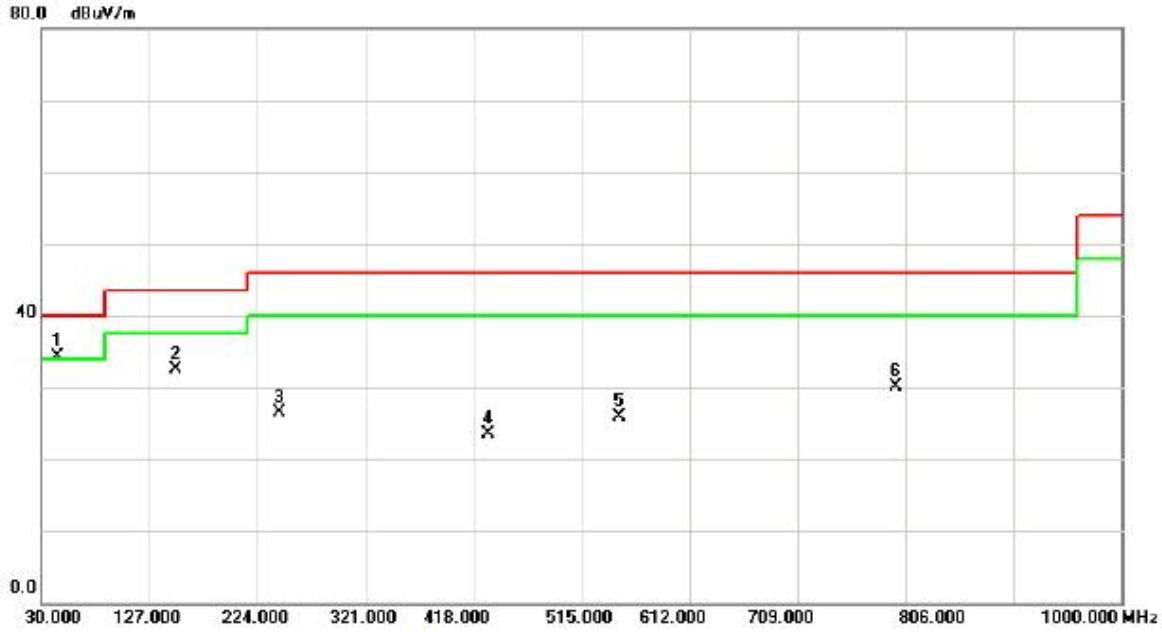
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	45.5200	46.36	-11.93	34.43	40.00	-5.57	peak	
2		151.2500	45.33	-11.55	33.78	43.50	-9.72	peak	
3		243.4000	39.58	-13.10	26.48	46.00	-19.52	peak	
4		351.0700	33.91	-9.97	23.94	46.00	-22.06	peak	
5		579.9900	32.29	-4.14	28.15	46.00	-17.85	peak	
6		797.2700	27.38	1.68	29.06	46.00	-16.94	peak	

Test Mode:	TX B MODE CHANNEL 01

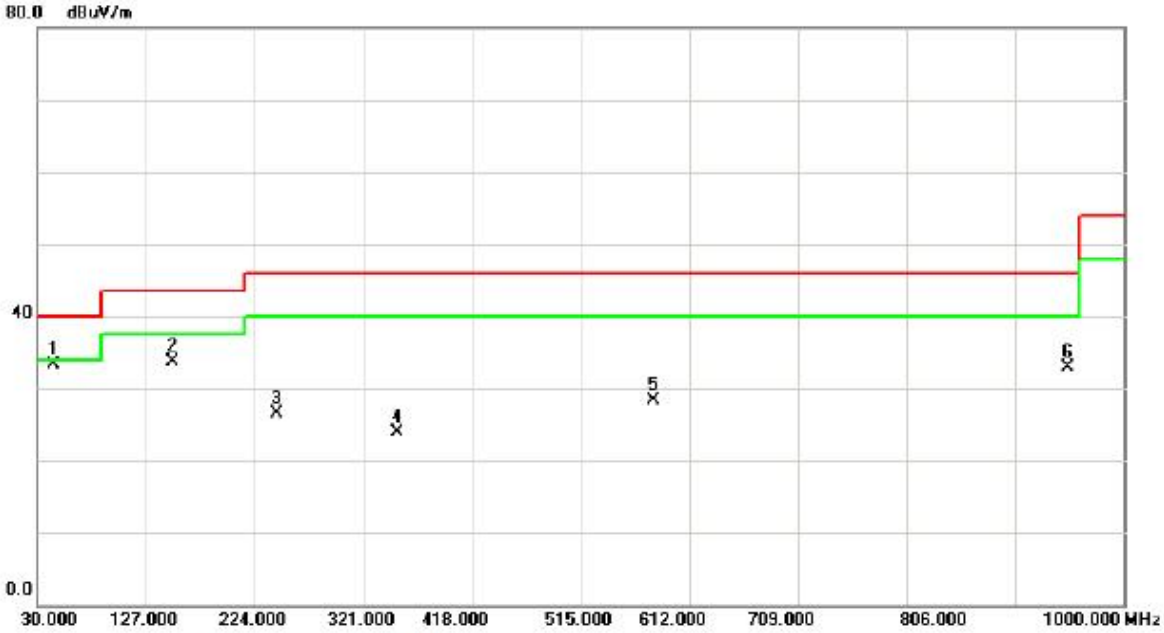
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	44.5500	46.35	-11.98	34.37	40.00	-5.63	peak	
2		150.2800	44.11	-11.60	32.51	43.50	-10.99	peak	
3		243.4000	39.59	-13.10	26.49	46.00	-19.51	peak	
4		431.5800	30.00	-6.46	23.54	46.00	-22.46	peak	
5		549.9200	28.87	-2.88	25.99	46.00	-20.01	peak	
6		797.2700	28.39	1.68	30.07	46.00	-15.93	peak	

Test Mode:	TX B MODE CHANNEL 06

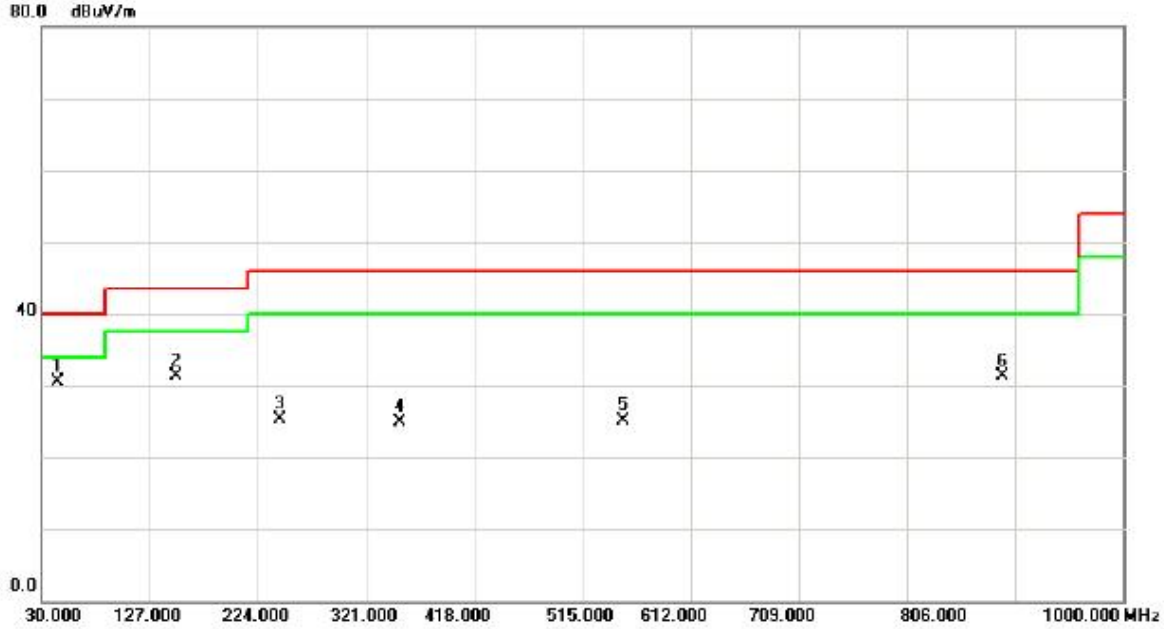
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	44.5500	45.19	-11.98	33.21	40.00	-6.79	peak	
2		150.2800	45.38	-11.60	33.78	43.50	-9.72	peak	
3		243.4000	39.61	-13.10	26.51	46.00	-19.49	peak	
4		351.0700	33.81	-9.97	23.84	46.00	-22.16	peak	
5		579.9900	32.54	-4.14	28.40	46.00	-17.60	peak	
6		949.5600	30.28	2.70	32.98	46.00	-13.02	peak	

Test Mode:	TX B MODE CHANNEL 06

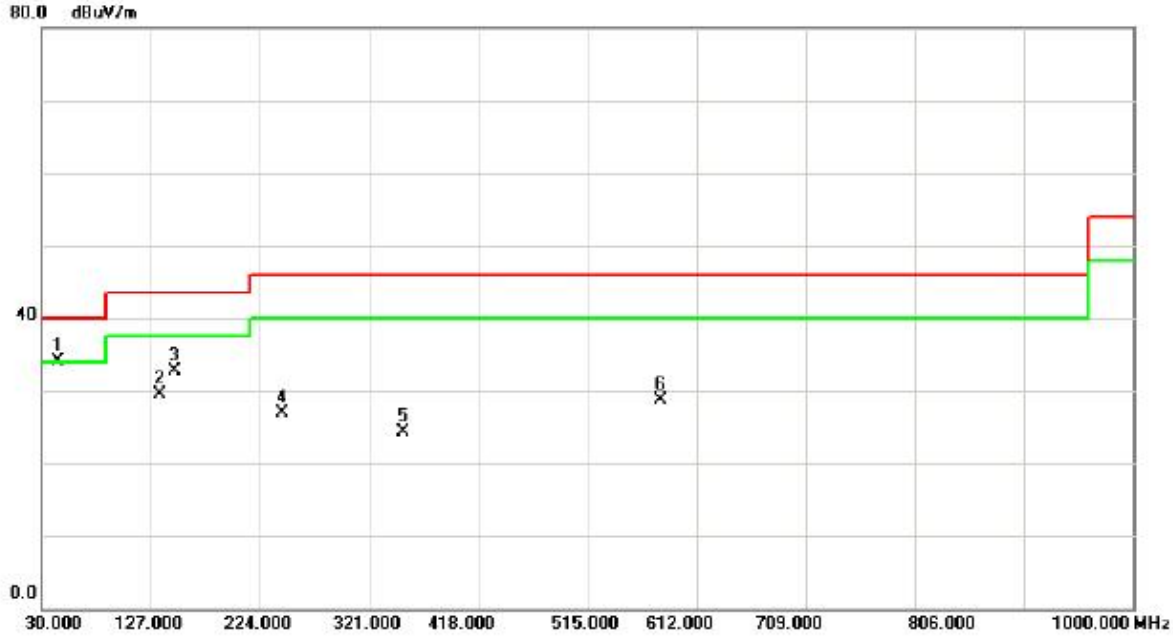
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	44.5500	42.56	-11.98	30.58	40.00	-9.42	peak	
2		151.2500	42.81	-11.55	31.26	43.50	-12.24	peak	
3		243.4000	38.38	-13.10	25.28	46.00	-20.72	peak	
4		351.0700	34.88	-9.97	24.91	46.00	-21.09	peak	
5		551.8600	28.07	-2.95	25.12	46.00	-20.88	peak	
6		891.3600	28.16	3.13	31.29	46.00	-14.71	peak	

Test Mode:	TX B MODE CHANNEL 11

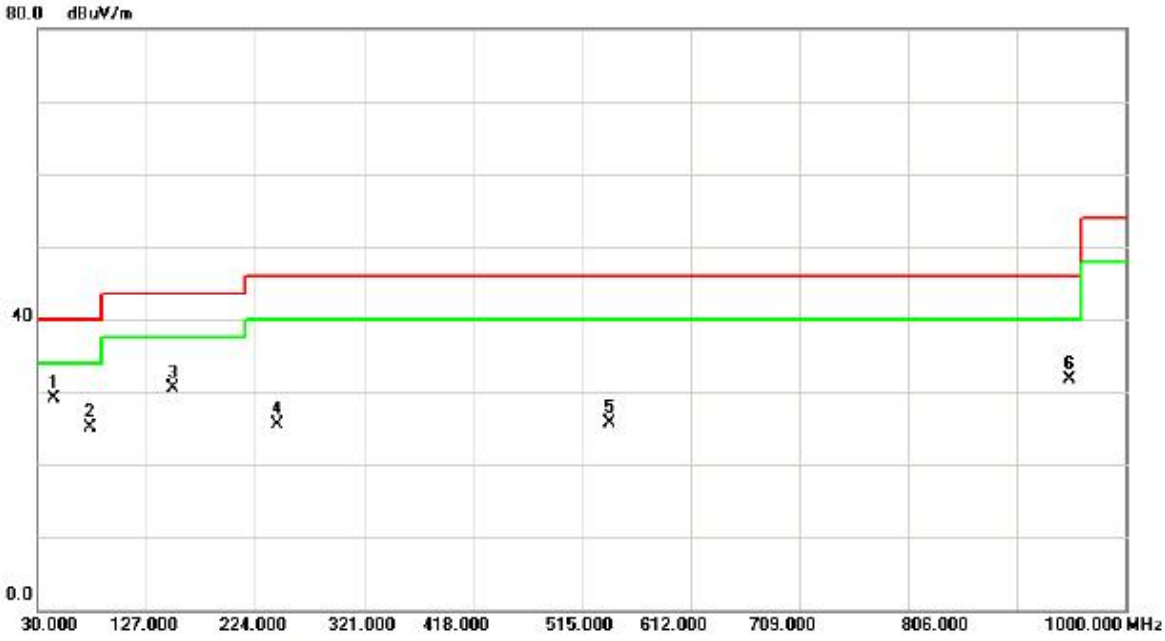
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	44.5500	46.18	-11.98	34.20	40.00	-5.80	peak	
2		134.7600	41.72	-12.28	29.44	43.50	-14.06	peak	
3		148.3400	44.51	-11.79	32.72	43.50	-10.78	peak	
4		243.4000	40.02	-13.10	26.92	46.00	-19.08	peak	
5		351.0700	34.33	-9.97	24.36	46.00	-21.64	peak	
6		579.9900	32.91	-4.14	28.77	46.00	-17.23	peak	

Test Mode:	TX B MODE CHANNEL 11

Horizontal

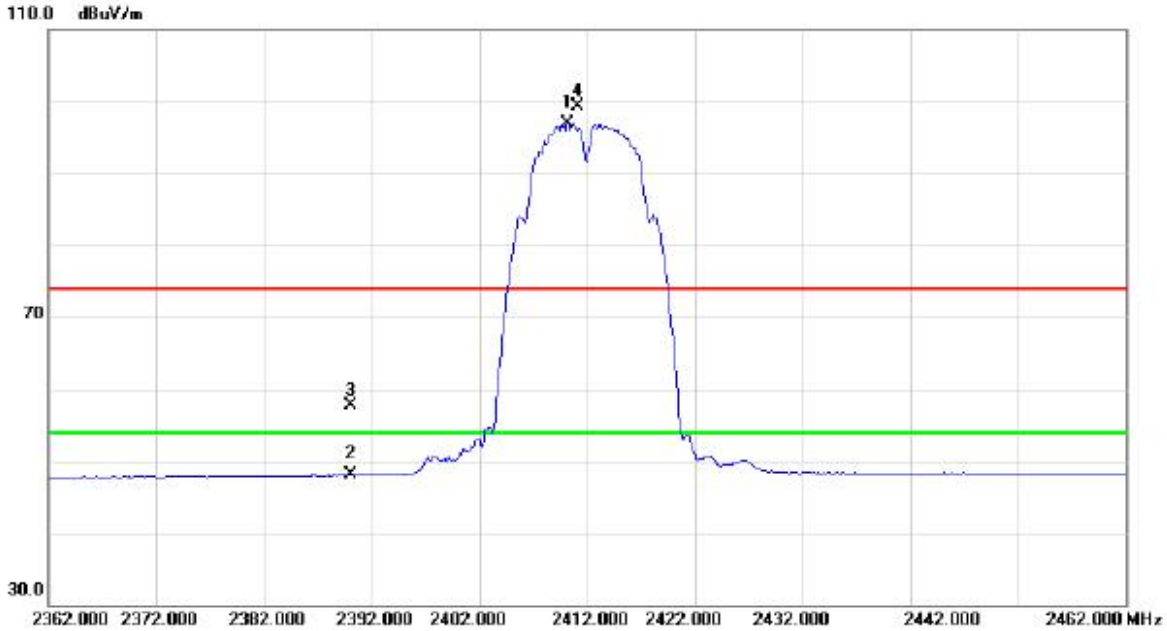


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	44.5500	40.99	-11.98	29.01	40.00	-10.99	peak	
2		76.5600	39.83	-14.79	25.04	40.00	-14.96	peak	
3		150.2800	42.19	-11.60	30.59	43.50	-12.91	peak	
4		243.4000	38.51	-13.10	25.41	46.00	-20.59	peak	
5		540.2200	29.47	-3.79	25.68	46.00	-20.32	peak	
6		950.5300	29.04	2.69	31.73	46.00	-14.27	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

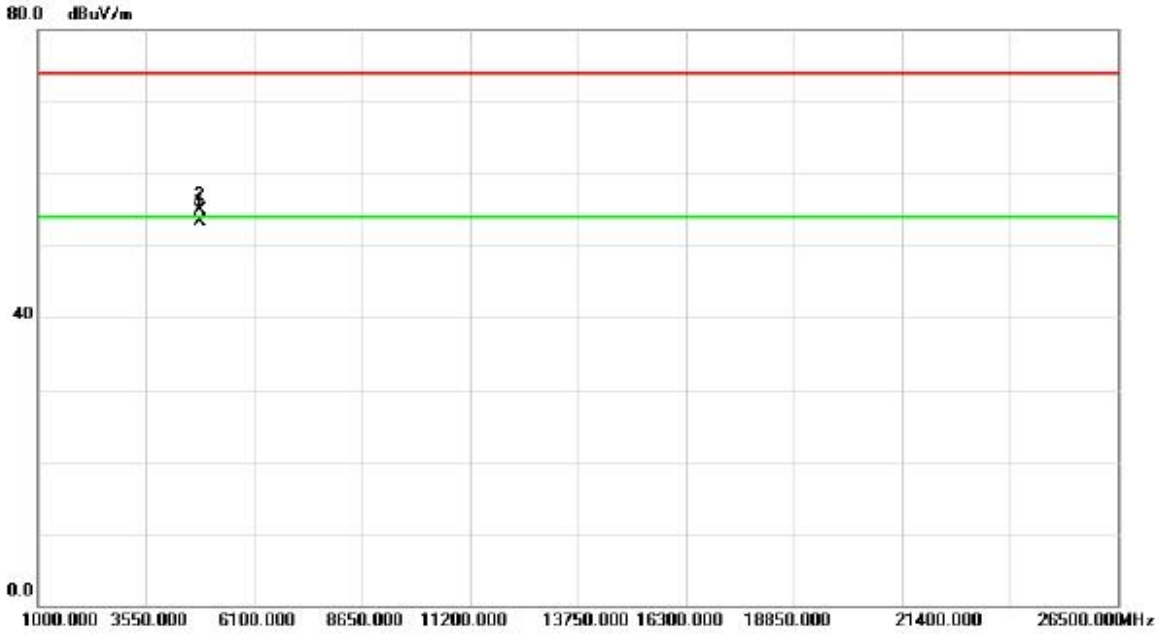
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2410.200	62.70	34.22	96.92	54.00	42.92	AVG	NO LIMIT
2		2390.000	13.84	34.17	48.01	54.00	-5.99	AVG	
3		2390.000	23.63	34.17	57.80	74.00	-16.20	peak	
4	X	2411.100	65.09	34.23	99.32	74.00	25.32	peak	NO LIMIT

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

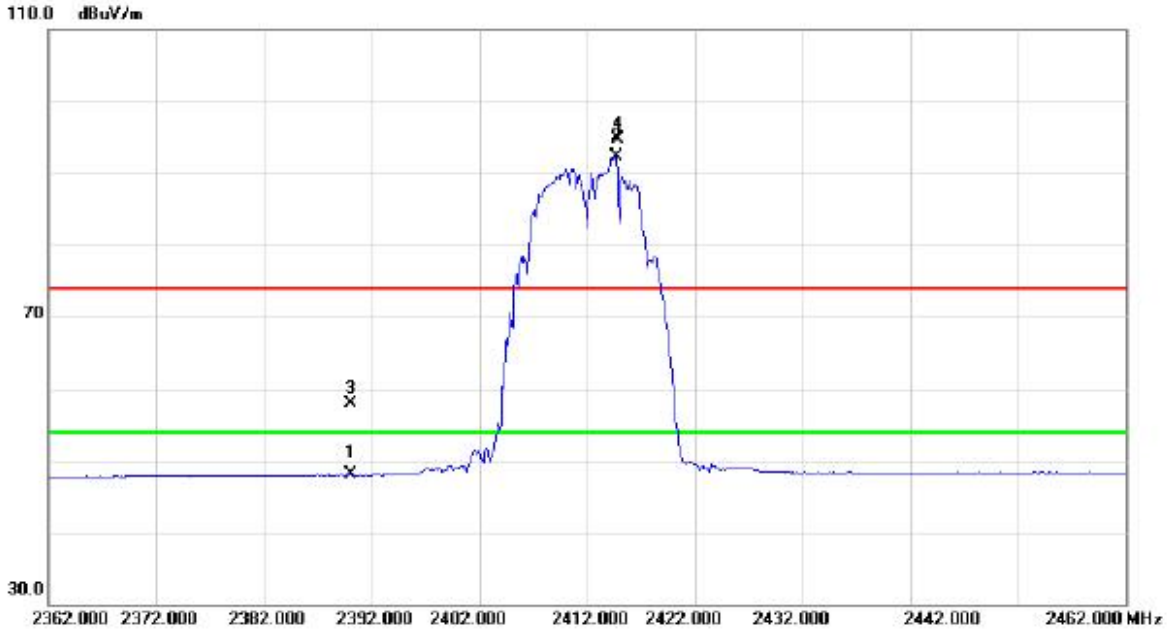
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.040	49.61	3.62	53.23	54.00	-0.77	AVG	
2		4824.000	51.35	3.62	54.97	74.00	-19.03	peak	

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

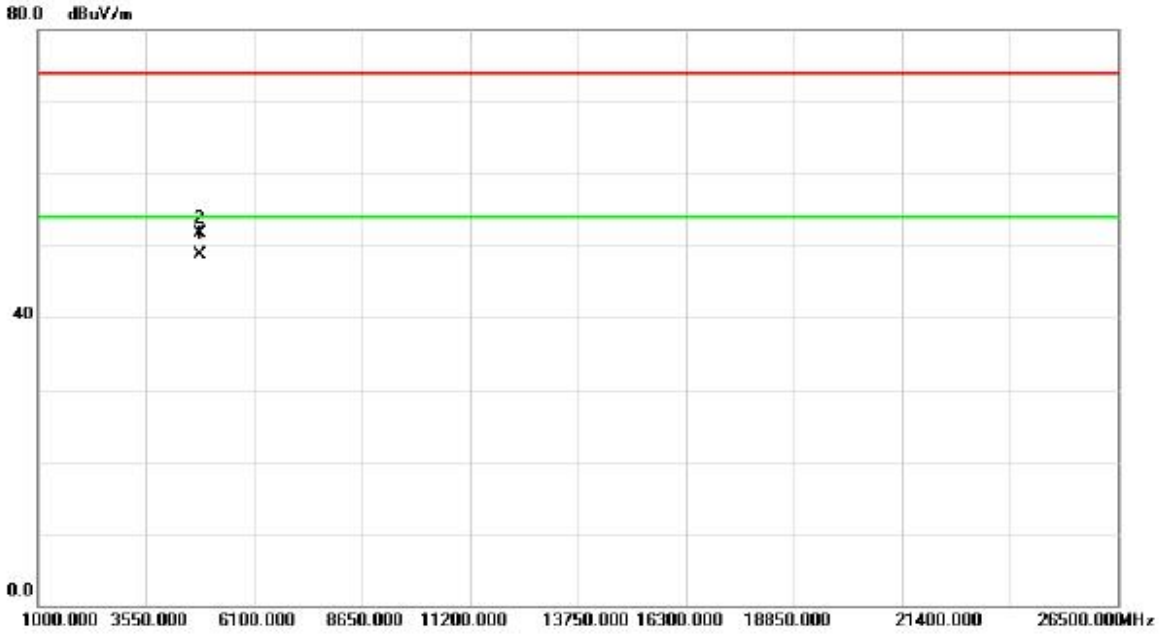
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	13.84	34.17	48.01	54.00	-5.99	AVG	
2	*	2414.700	58.01	34.24	92.25	54.00	38.25	AVG	NO LIMIT
3		2390.000	23.65	34.17	57.82	74.00	-16.18	peak	
4	X	2414.800	60.51	34.24	94.75	74.00	20.75	peak	NO LIMIT

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

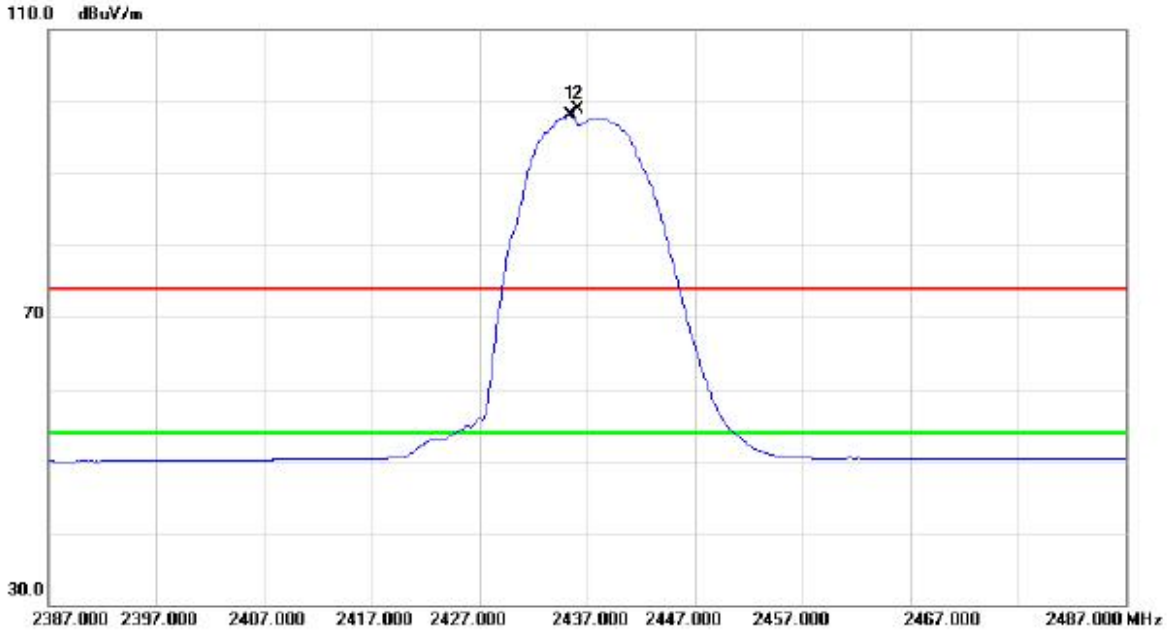
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.940	45.05	3.62	48.67	54.00	-5.33	AVG	
2		4824.020	48.15	3.62	51.77	74.00	-22.23	peak	

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

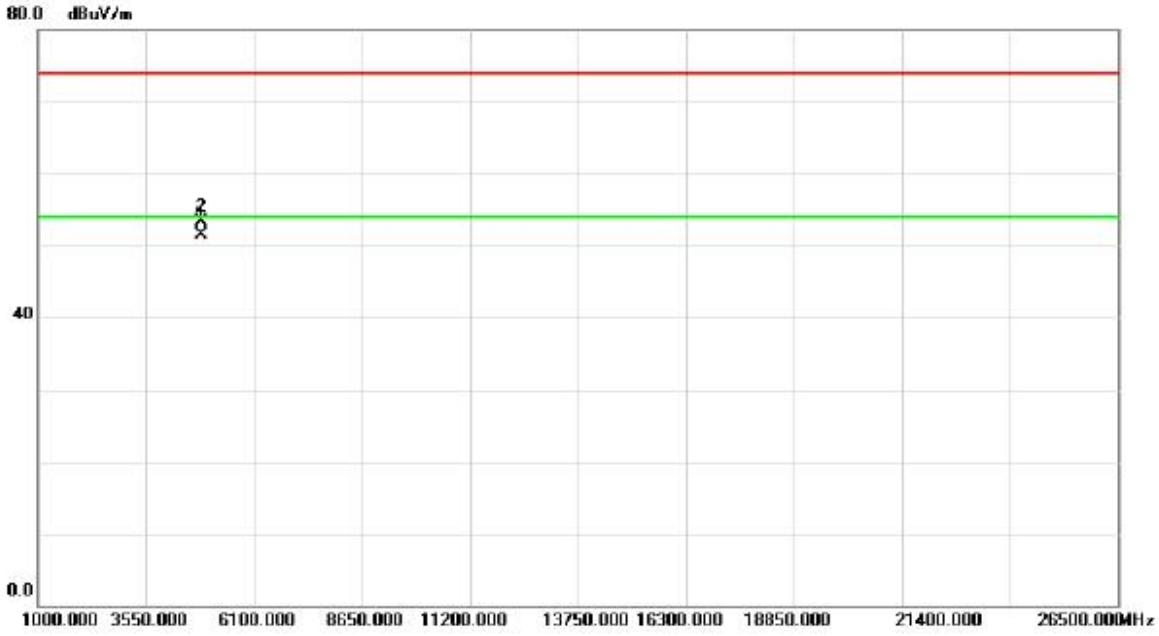
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2435.400	63.78	34.29	98.07	54.00	44.07	AVG	NO LIMIT
2	X	2436.200	64.65	34.30	98.95	74.00	24.95	peak	NO LIMIT

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

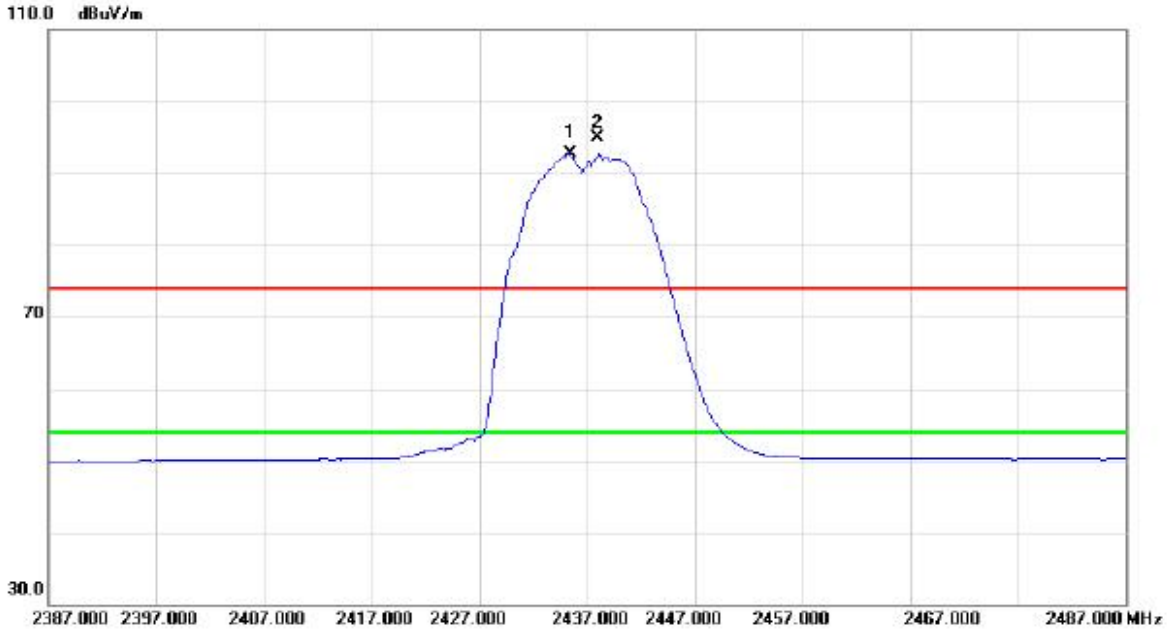
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.000	47.86	3.72	51.58	54.00	-2.42	AVG	
2		4873.960	49.54	3.72	53.26	74.00	-20.74	peak	

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

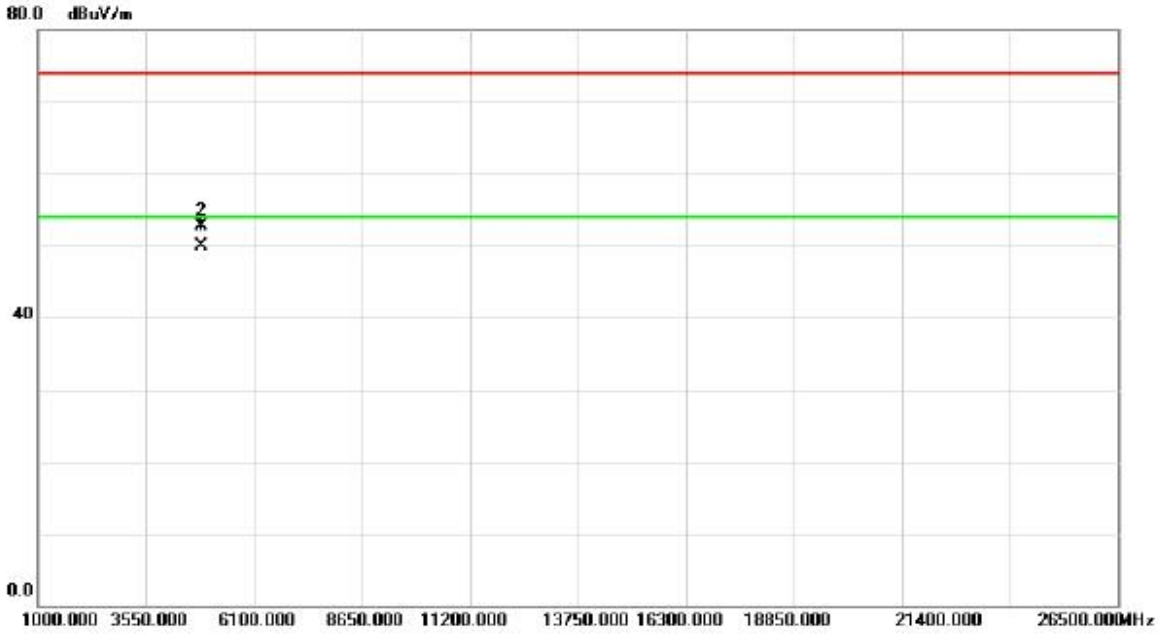
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2435.500	58.45	34.30	92.75	54.00	38.75	AVG	NO LIMIT
2	X	2438.000	60.58	34.30	94.88	74.00	20.88	peak	NO LIMIT

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

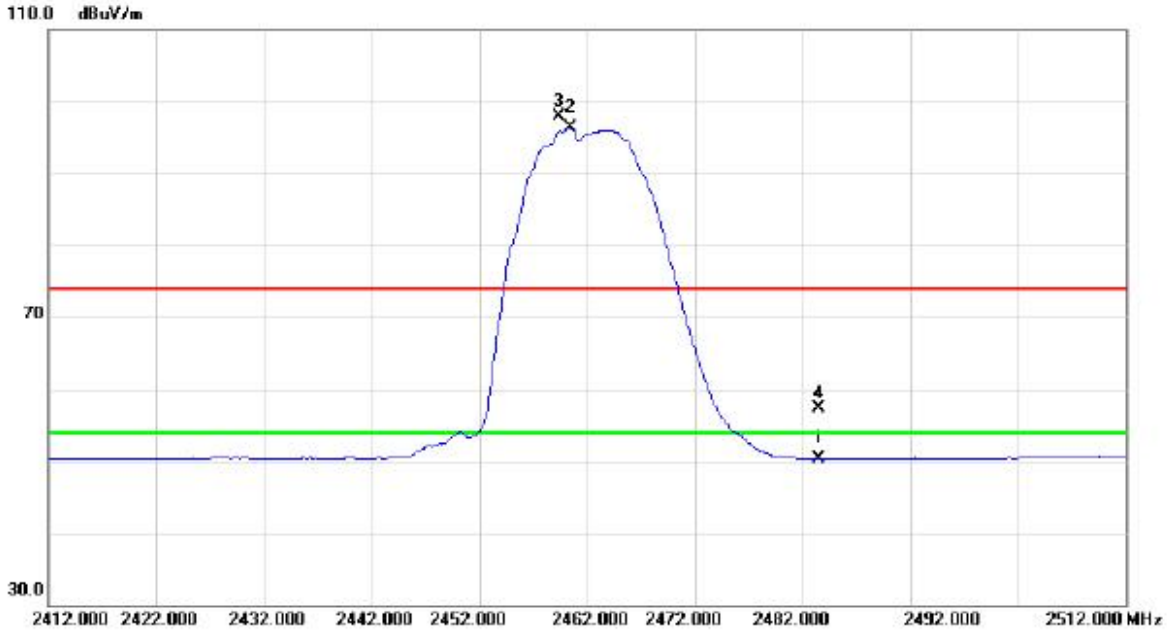
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.980	46.28	3.72	50.00	54.00	-4.00	AVG	
2		4874.120	49.05	3.72	52.77	74.00	-21.23	peak	

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

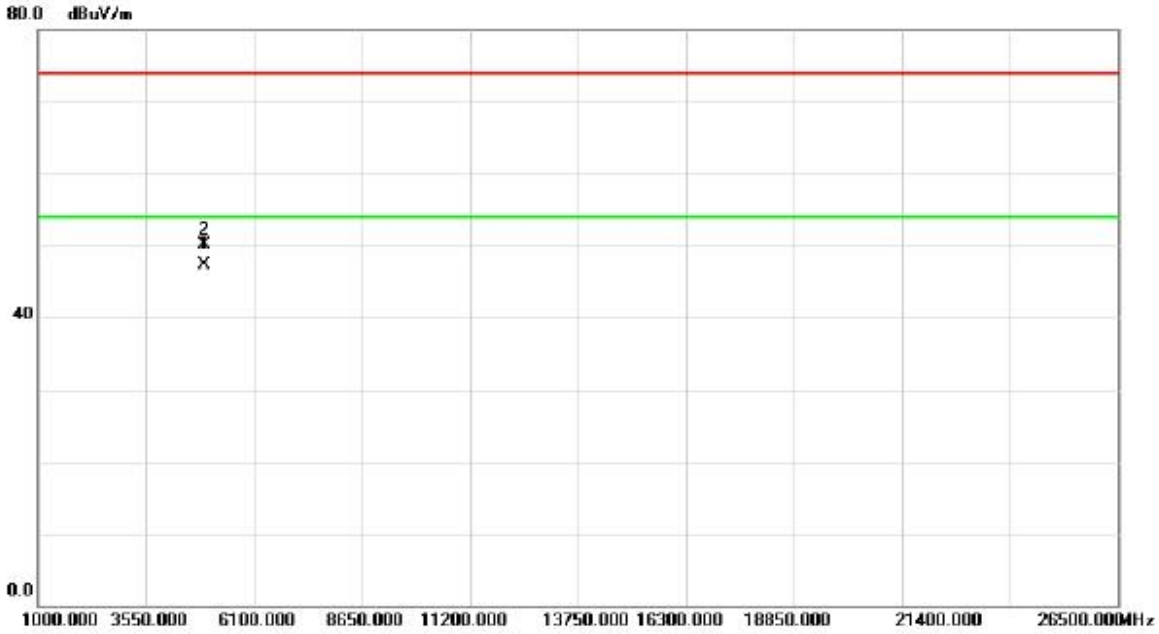
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	15.88	34.43	50.31	54.00	-3.69	AVG	
2	*	2460.400	61.95	34.36	96.31	54.00	42.31	AVG	NO LIMIT
3	X	2459.400	63.46	34.36	97.82	74.00	23.82	peak	NO LIMIT
4		2483.500	22.86	34.43	57.29	74.00	-16.71	peak	

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

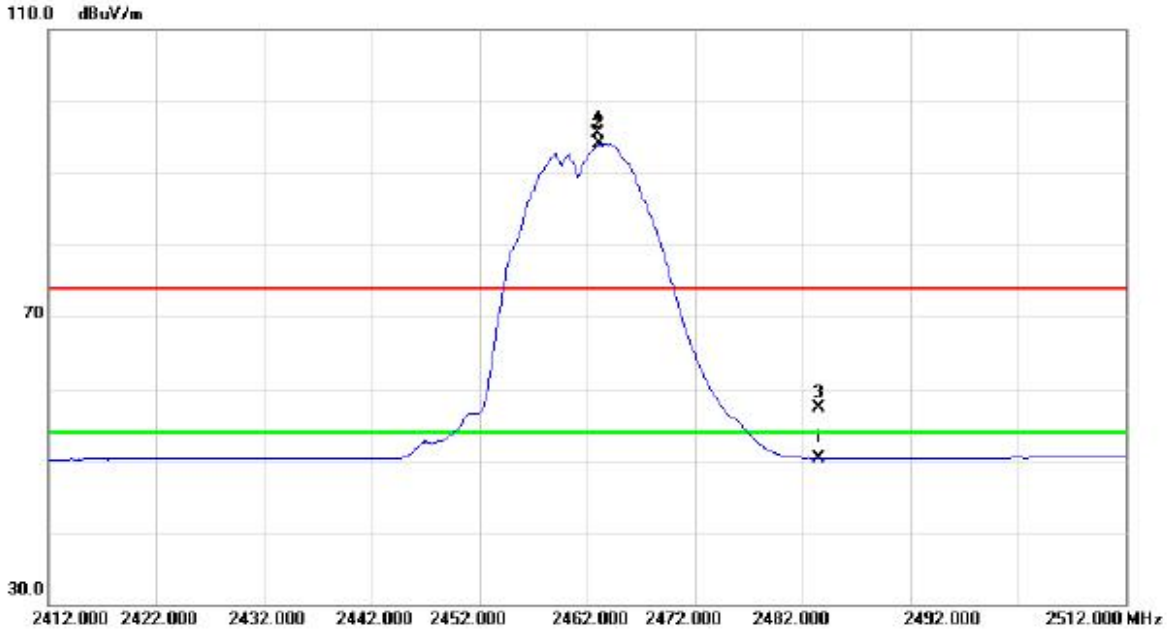
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.000	43.57	3.80	47.37	54.00	-6.63	AVG	
2		4923.860	46.35	3.80	50.15	74.00	-23.85	peak	

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

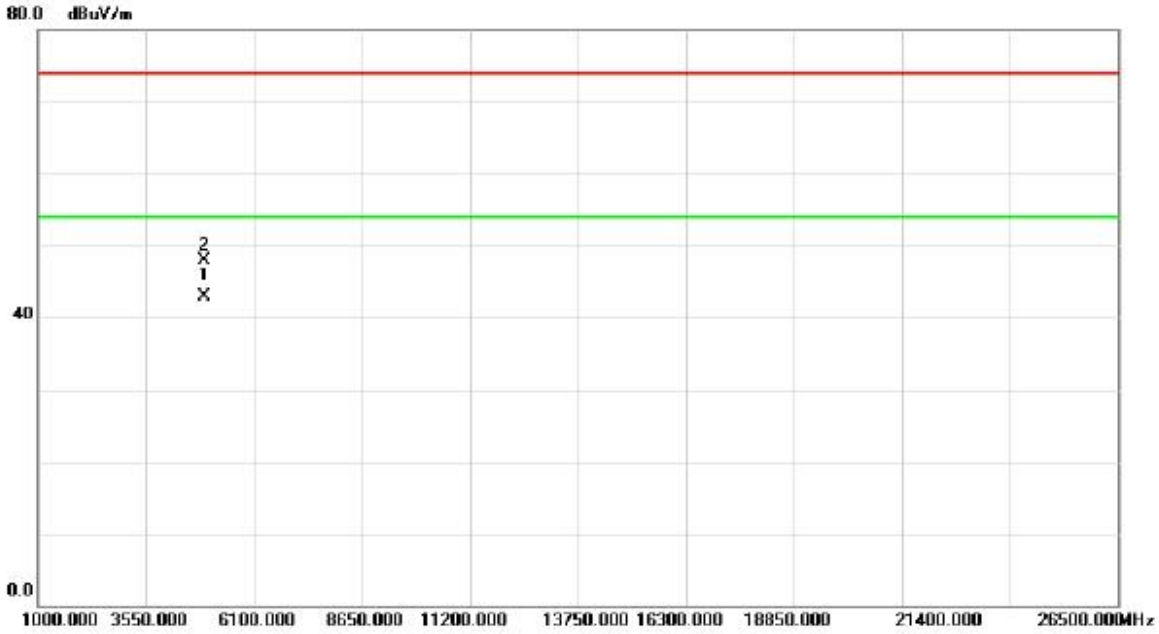
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	15.89	34.43	50.32	54.00	-3.68	AVG	
2	*	2463.200	59.70	34.37	94.07	54.00	40.07	AVG	NO LIMIT
3		2483.500	22.80	34.43	57.23	74.00	-16.77	peak	
4	X	2463.000	61.05	34.37	95.42	74.00	21.42	peak	NO LIMIT

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

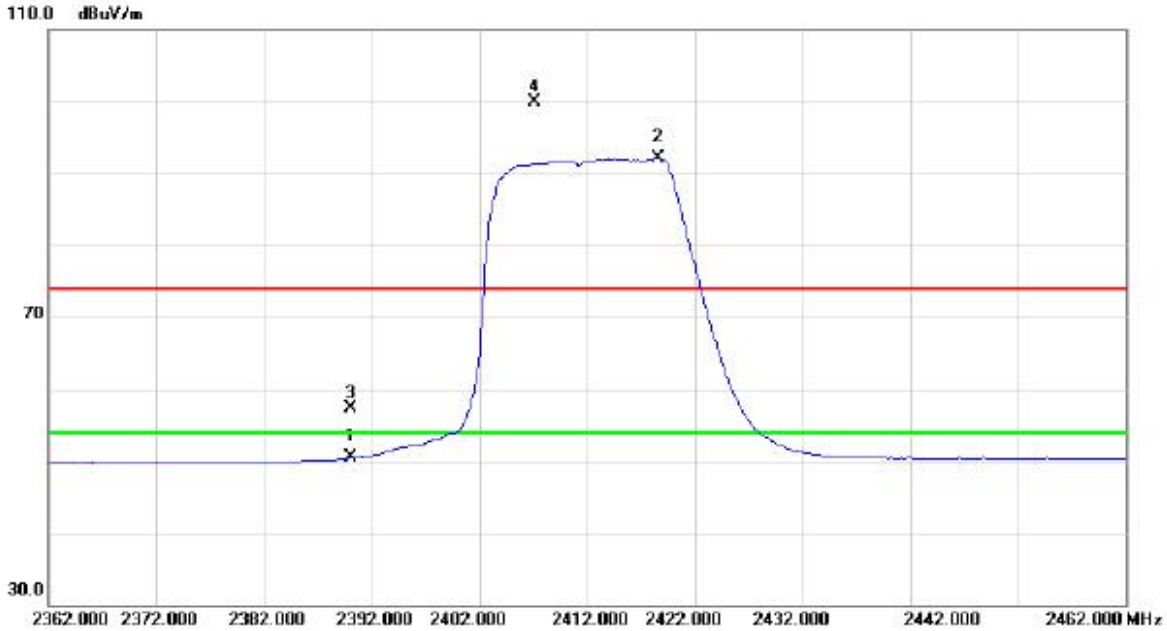
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.020	39.20	3.80	43.00	54.00	-11.00	AVG	
2		4924.160	44.12	3.80	47.92	74.00	-26.08	peak	

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

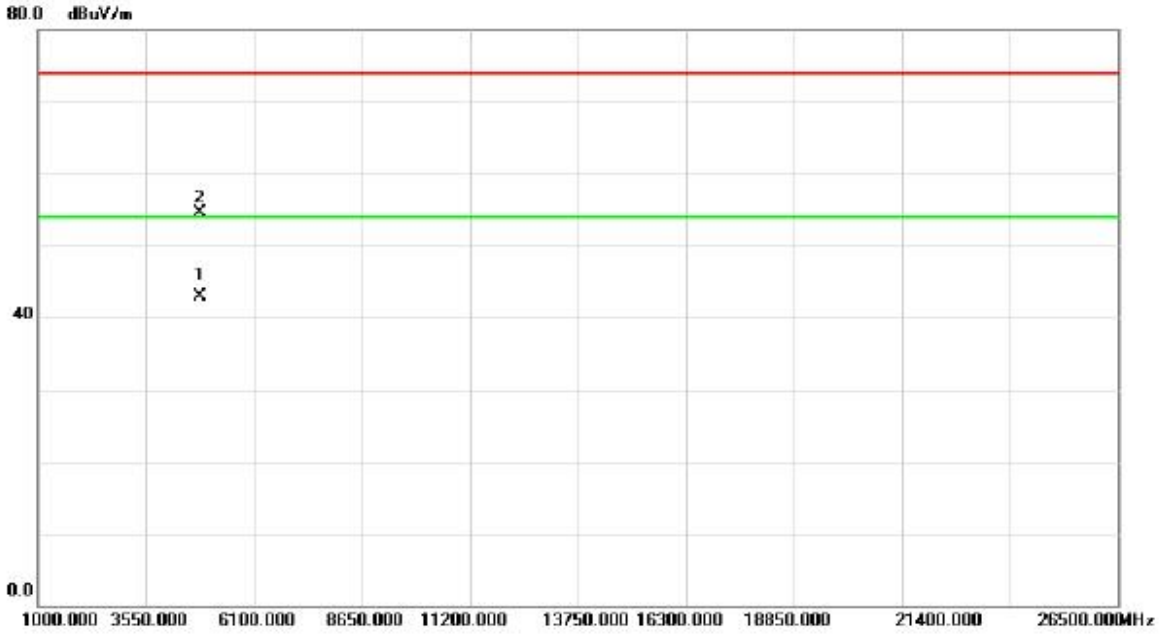
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	16.25	34.17	50.42	54.00	-3.58	AVG	
2	*	2418.600	57.81	34.24	92.05	54.00	38.05	AVG	NO LIMIT
3		2390.000	23.05	34.17	57.22	74.00	-16.78	peak	
4	X	2407.100	65.76	34.22	99.98	74.00	25.98	peak	NO LIMIT

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

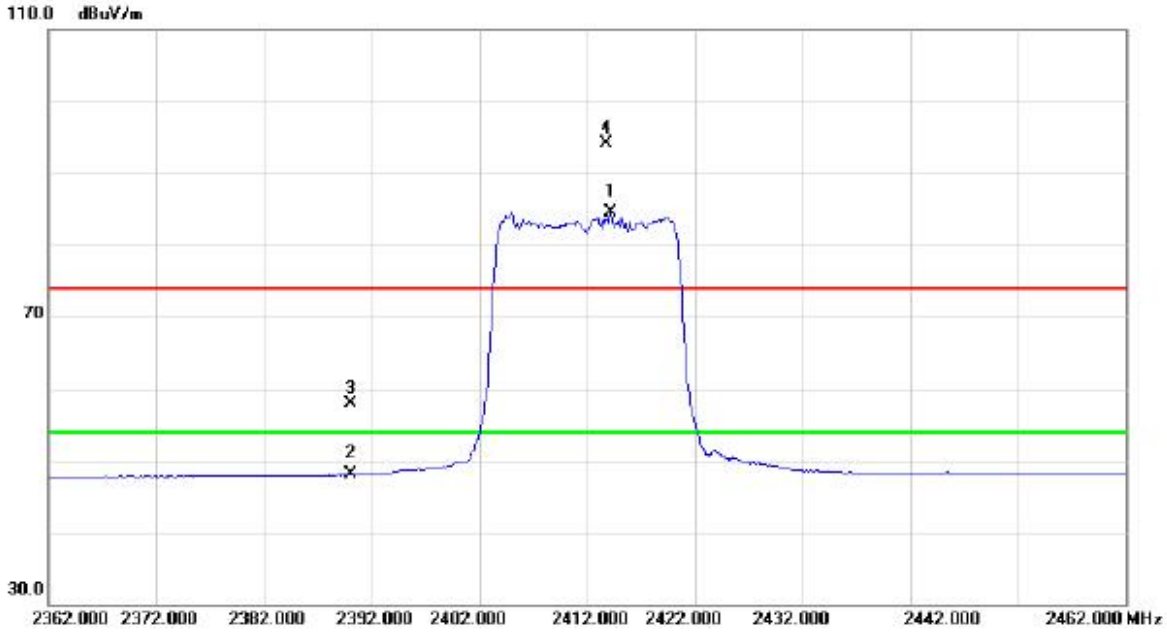
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.000	39.32	3.62	42.94	54.00	-11.06	AVG	
2		4823.940	50.85	3.62	54.47	74.00	-19.53	peak	

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

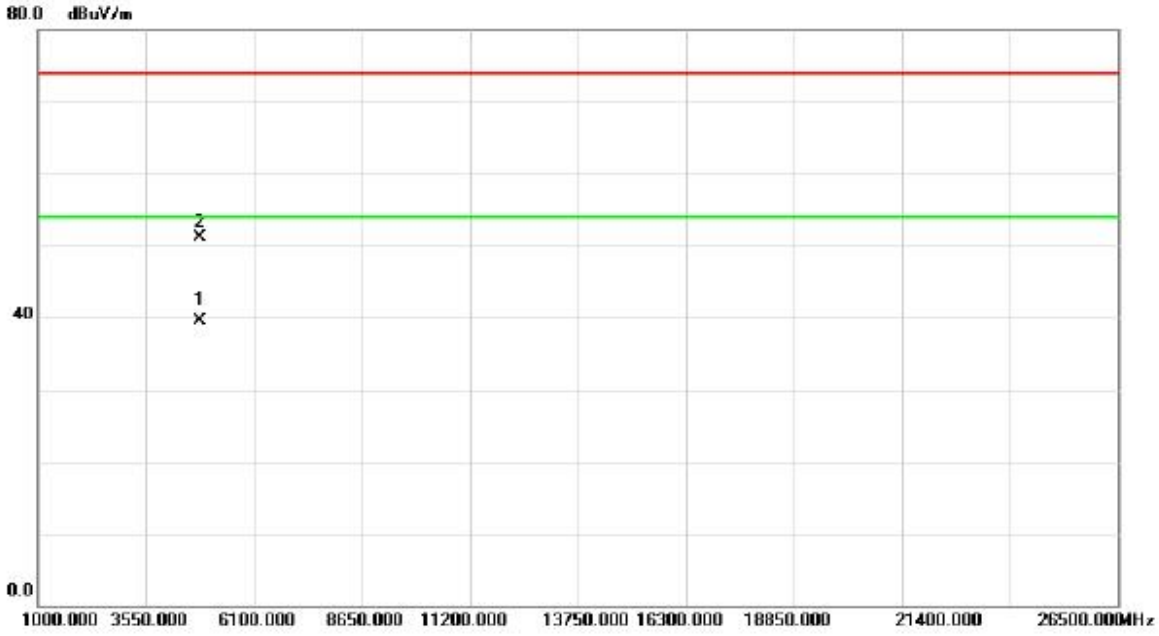
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2414.200	50.35	34.23	84.58	54.00	30.58	AVG	NO LIMIT
2		2390.000	13.89	34.17	48.06	54.00	-5.94	AVG	
3		2390.000	23.79	34.17	57.96	74.00	-16.04	peak	
4	X	2413.800	59.84	34.23	94.07	74.00	20.07	peak	NO LIMIT

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

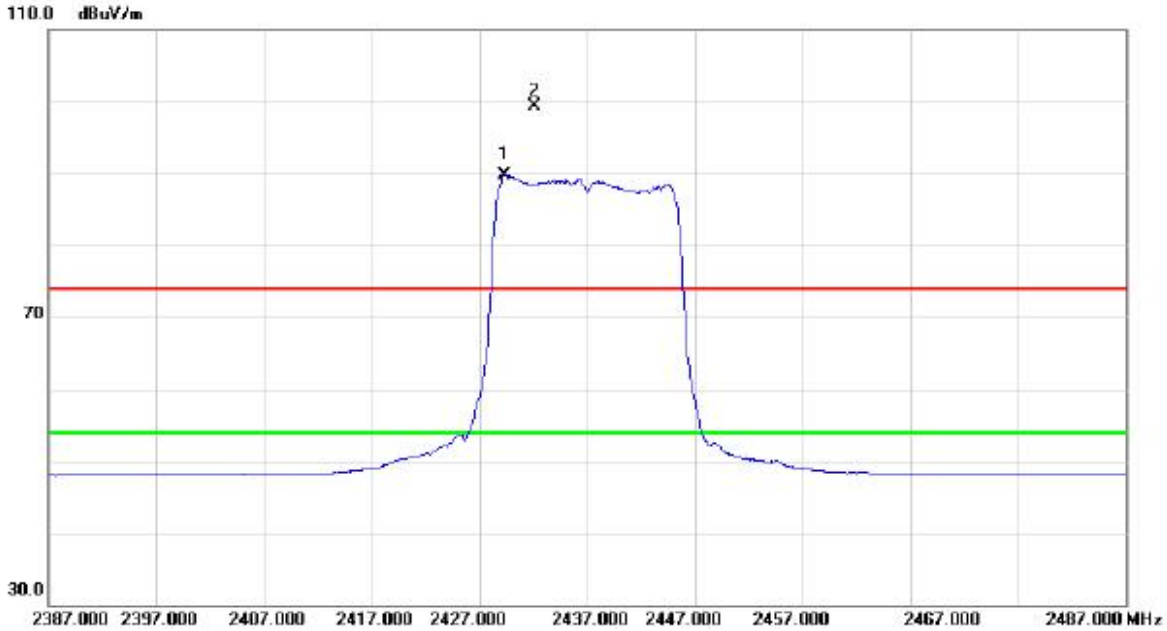
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4823.980	35.84	3.62	39.46	54.00	-14.54	AVG	
2		4824.040	47.49	3.62	51.11	74.00	-22.89	peak	

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

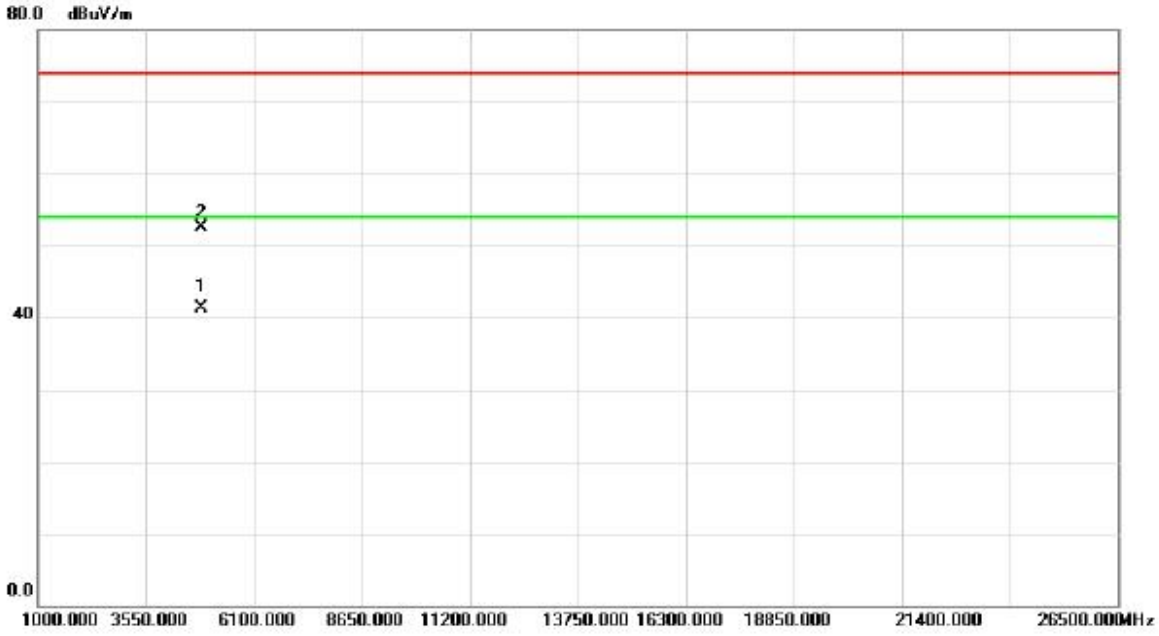
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2429.300	55.46	34.28	89.74	54.00	35.74	AVG	NO LIMIT
2	X	2432.200	65.01	34.29	99.30	74.00	25.30	peak	NO LIMIT

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

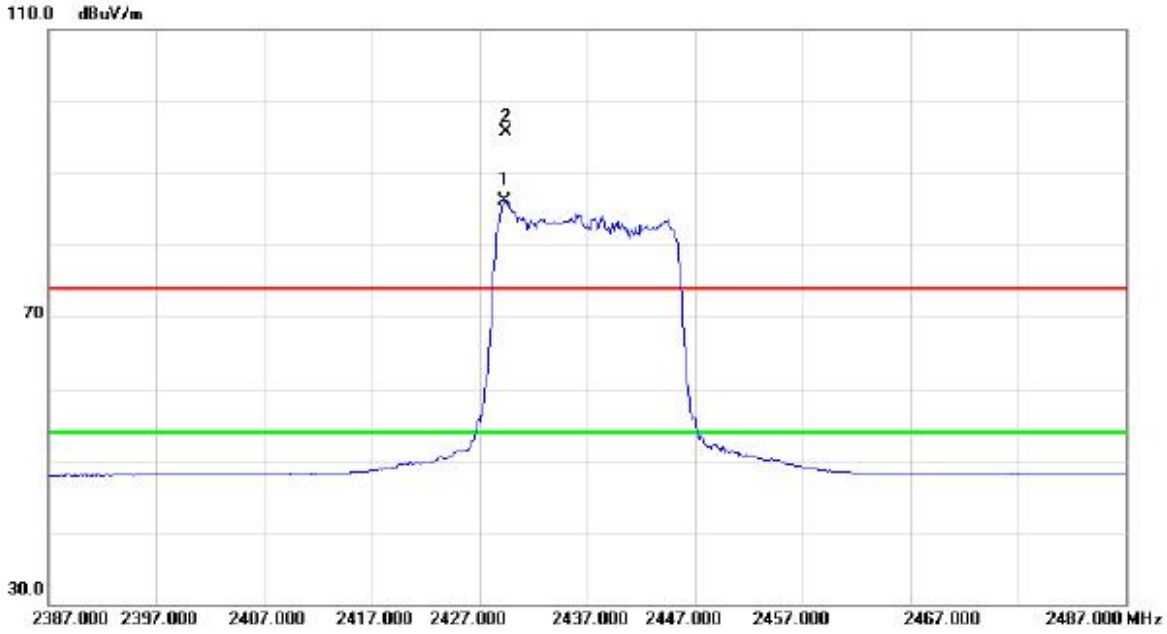
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4873.960	37.68	3.72	41.40	54.00	-12.60	AVG	
2		4874.020	48.74	3.72	52.46	74.00	-21.54	peak	

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

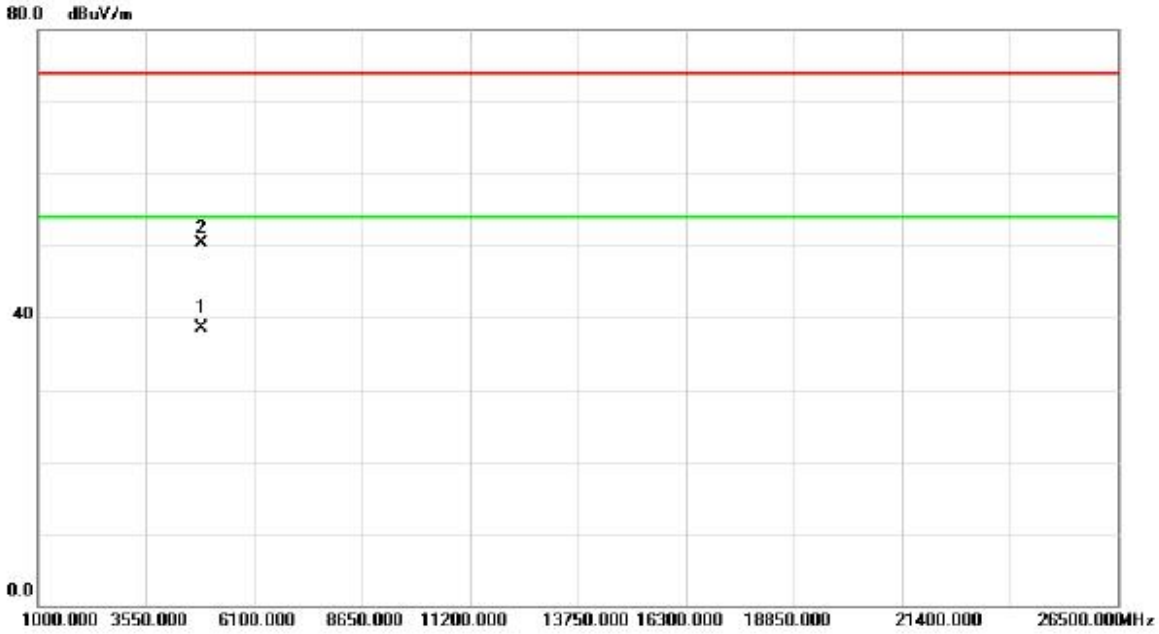
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2429.300	51.77	34.28	86.05	54.00	32.05	AVG	NO LIMIT
2	X	2429.500	61.36	34.28	95.64	74.00	21.64	peak	NO LIMIT

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

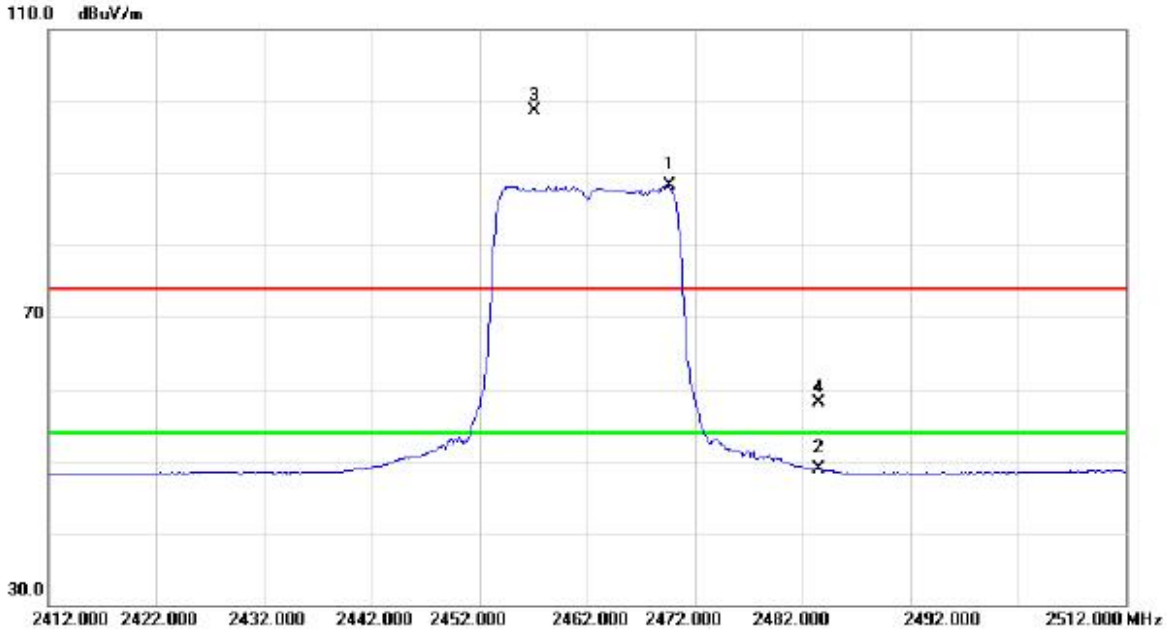
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.020	34.84	3.72	38.56	54.00	-15.44	AVG	
2		4873.880	46.54	3.72	50.26	74.00	-23.74	peak	

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

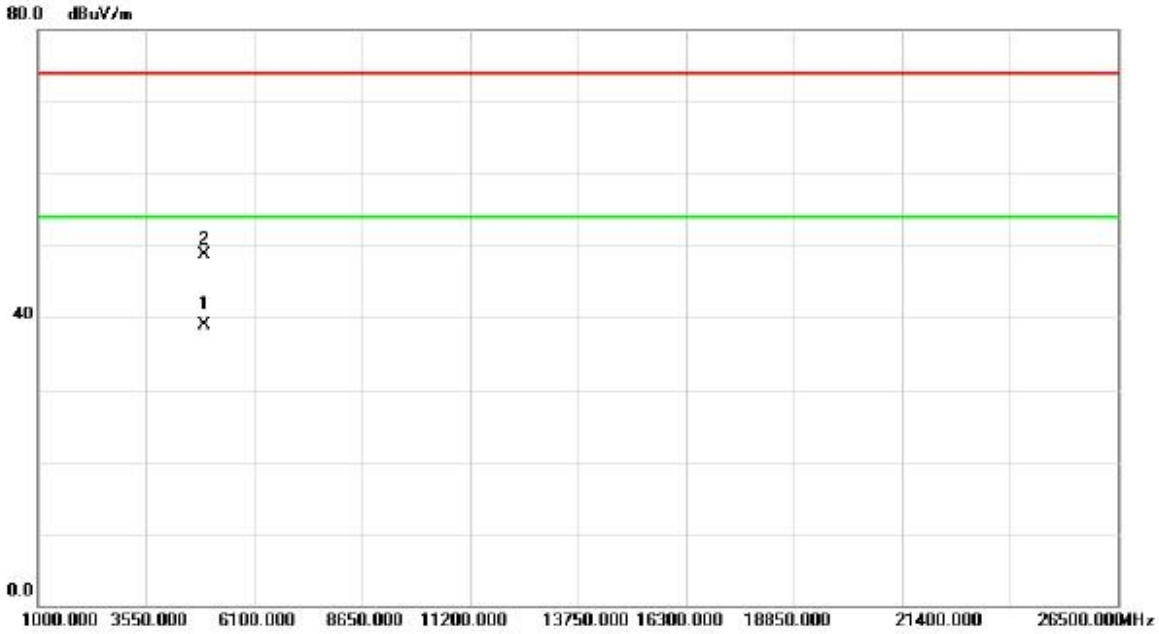
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2469.700	53.91	34.40	88.31	54.00	34.31	AVG	NO LIMIT
2		2483.500	14.46	34.43	48.89	54.00	-5.11	AVG	
3	X	2457.200	64.25	34.36	98.61	74.00	24.61	peak	NO LIMIT
4		2483.500	23.69	34.43	58.12	74.00	-15.88	peak	

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

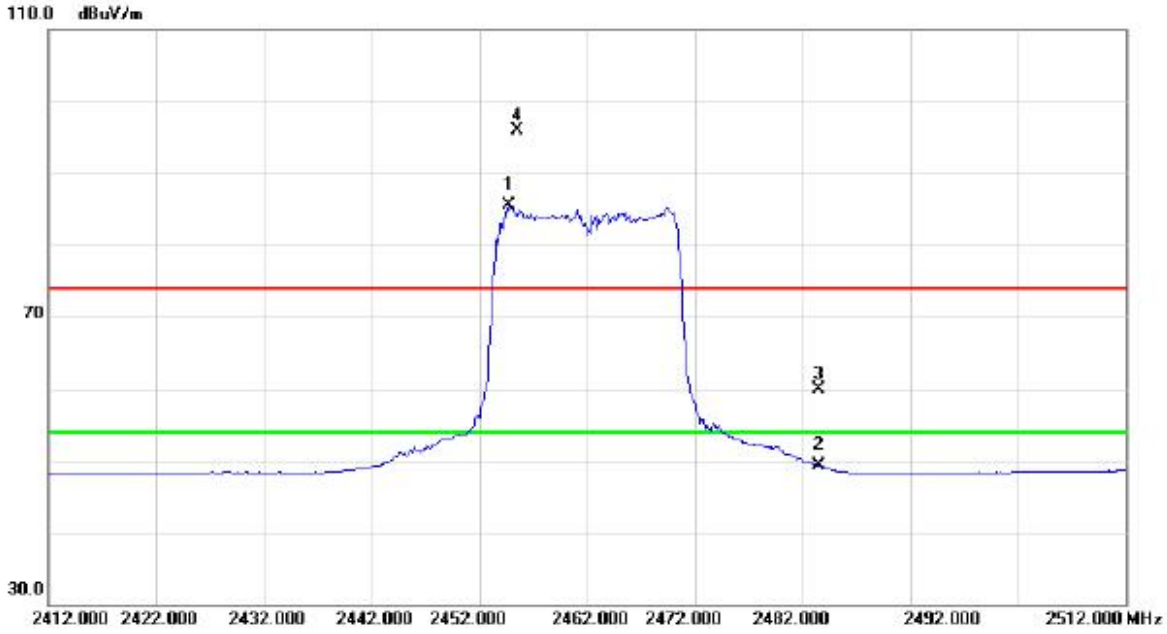
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.000	35.14	3.80	38.94	54.00	-15.06	AVG	
2		4924.000	44.95	3.80	48.75	74.00	-25.25	peak	

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

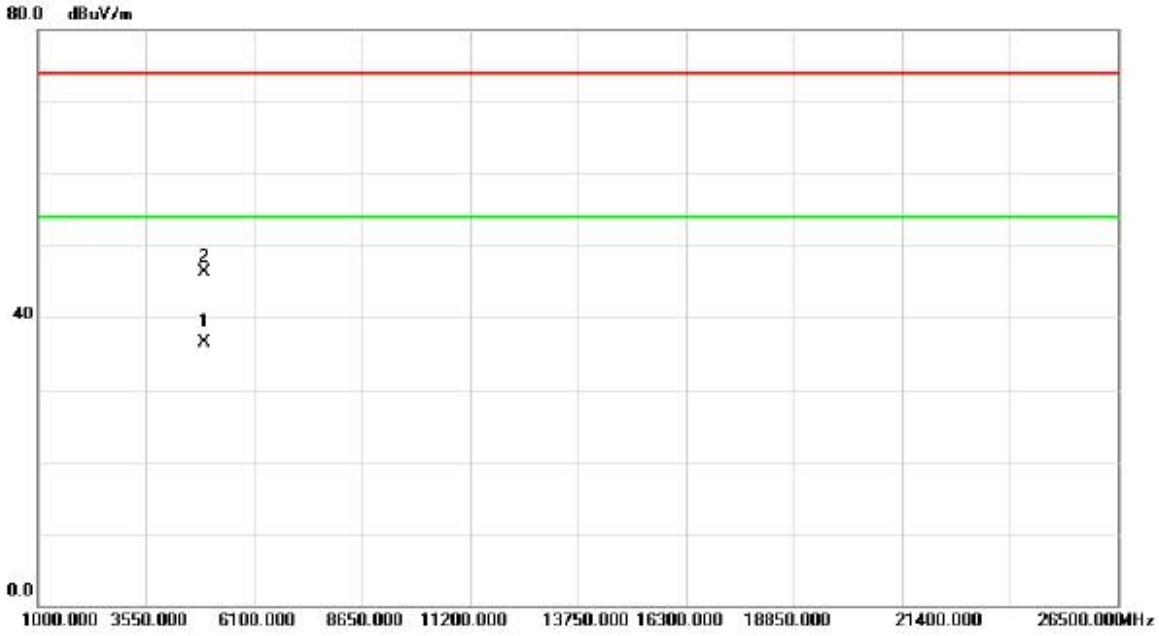
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2454.700	51.10	34.35	85.45	54.00	31.45	AVG	NO LIMIT
2		2483.500	14.93	34.43	49.36	54.00	-4.64	AVG	
3		2483.500	25.45	34.43	59.88	74.00	-14.12	peak	
4	X	2455.600	61.54	34.35	95.89	74.00	21.89	peak	NO LIMIT

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

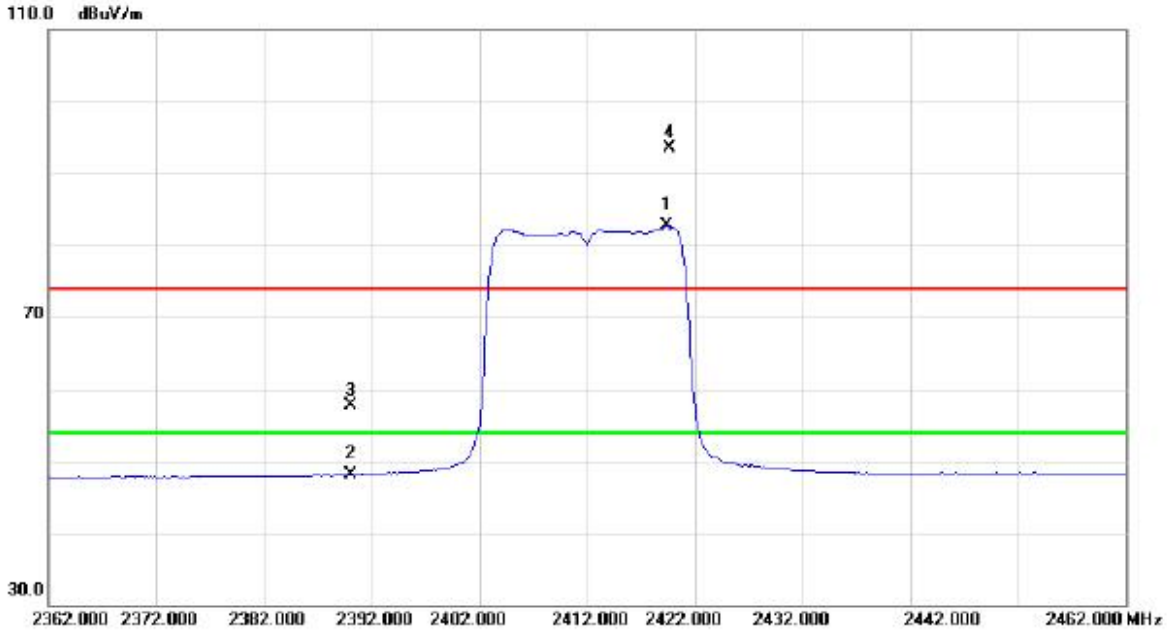
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.000	32.67	3.80	36.47	54.00	-17.53	AVG	
2		4923.820	42.58	3.80	46.38	74.00	-27.62	peak	

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

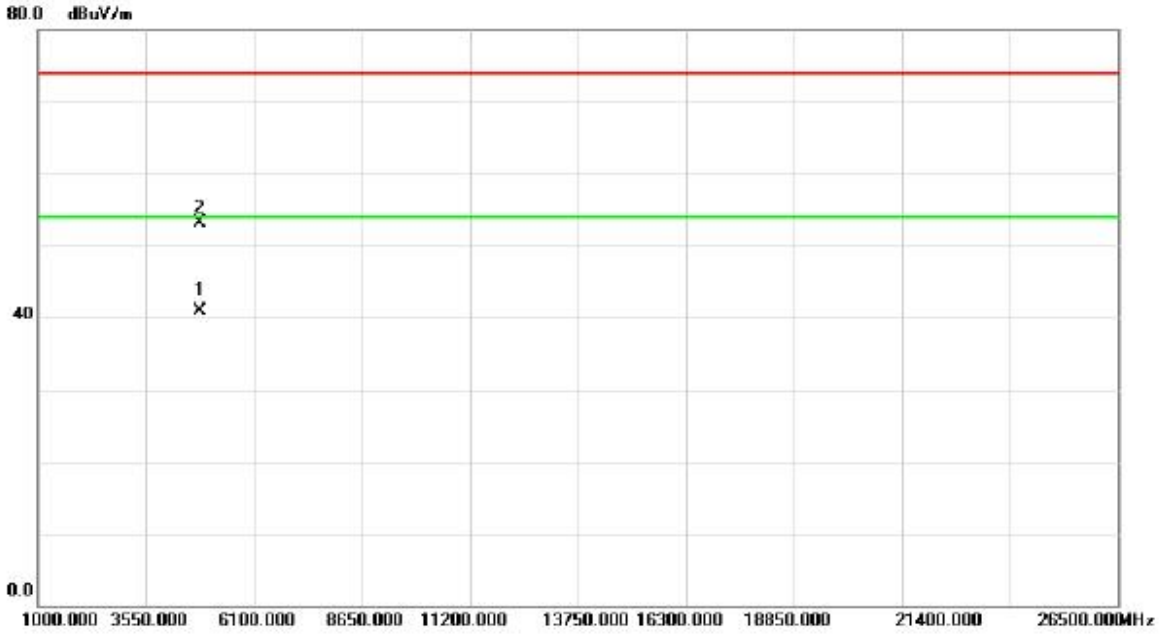
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2419.400	48.53	34.25	82.78	54.00	28.78	AVG	NO LIMIT
2		2390.000	14.00	34.17	48.17	54.00	-5.83	AVG	
3		2390.000	23.59	34.17	57.76	74.00	-16.24	peak	
4	X	2419.700	59.31	34.25	93.56	74.00	19.56	peak	NO LIMIT

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

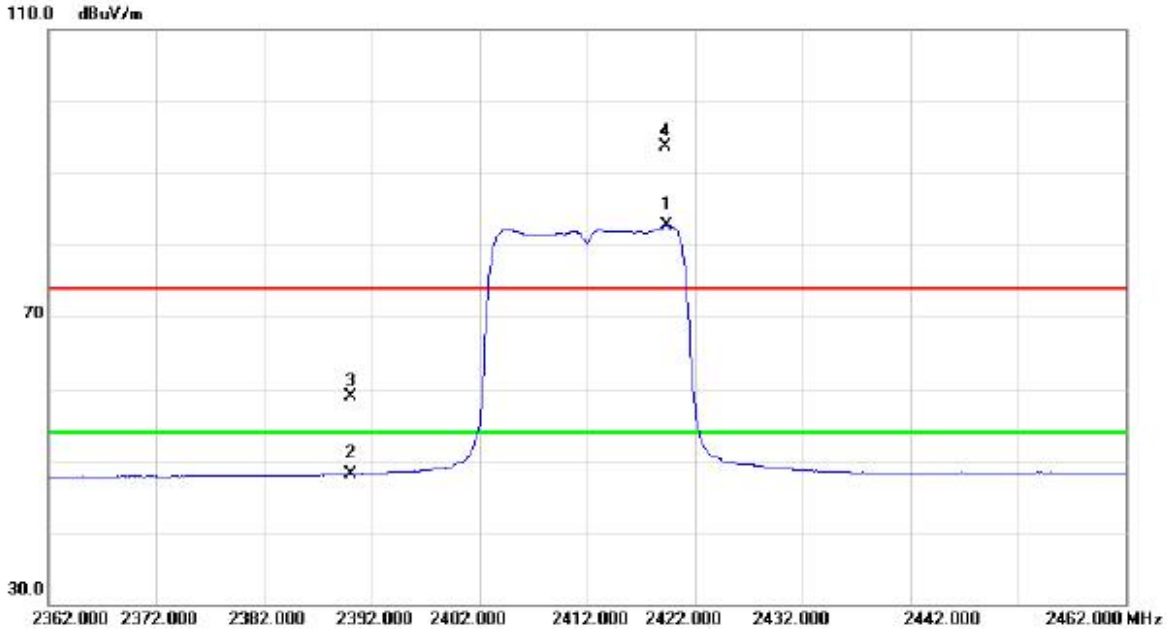
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.000	37.20	3.62	40.82	54.00	-13.18	AVG	
2		4823.880	49.55	3.62	53.17	74.00	-20.83	peak	

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

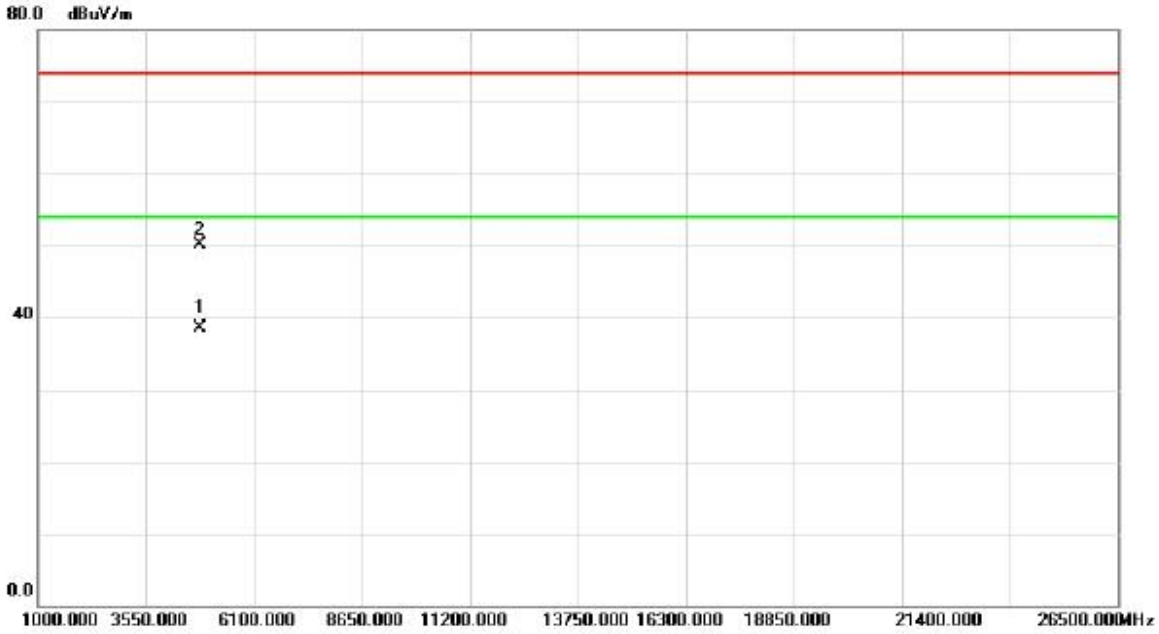
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2419.400	48.52	34.25	82.77	54.00	28.77	AVG	NO LIMIT
2		2390.000	13.99	34.17	48.16	54.00	-5.84	AVG	
3		2390.000	24.70	34.17	58.87	74.00	-15.13	peak	
4	X	2419.300	59.54	34.25	93.79	74.00	19.79	peak	NO LIMIT

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

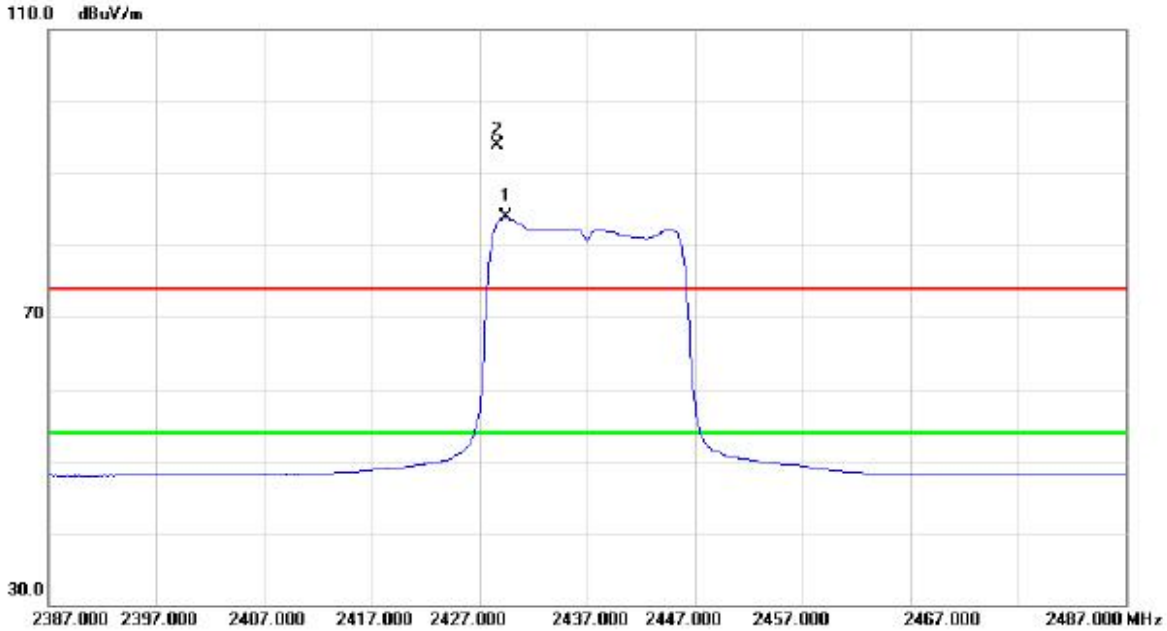
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4824.000	34.96	3.62	38.58	54.00	-15.42	AVG	
2		4823.960	46.46	3.62	50.08	74.00	-23.92	peak	

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

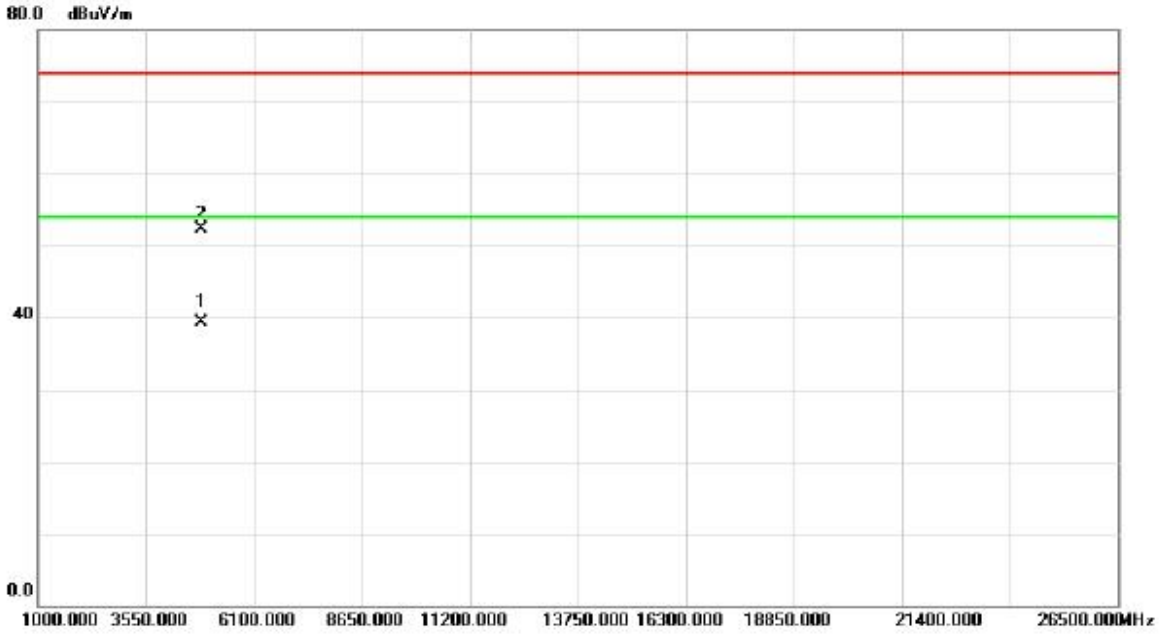
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2429.400	49.61	34.28	83.89	54.00	29.89	AVG	NO LIMIT
2	X	2428.700	59.56	34.28	93.84	74.00	19.84	peak	NO LIMIT

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

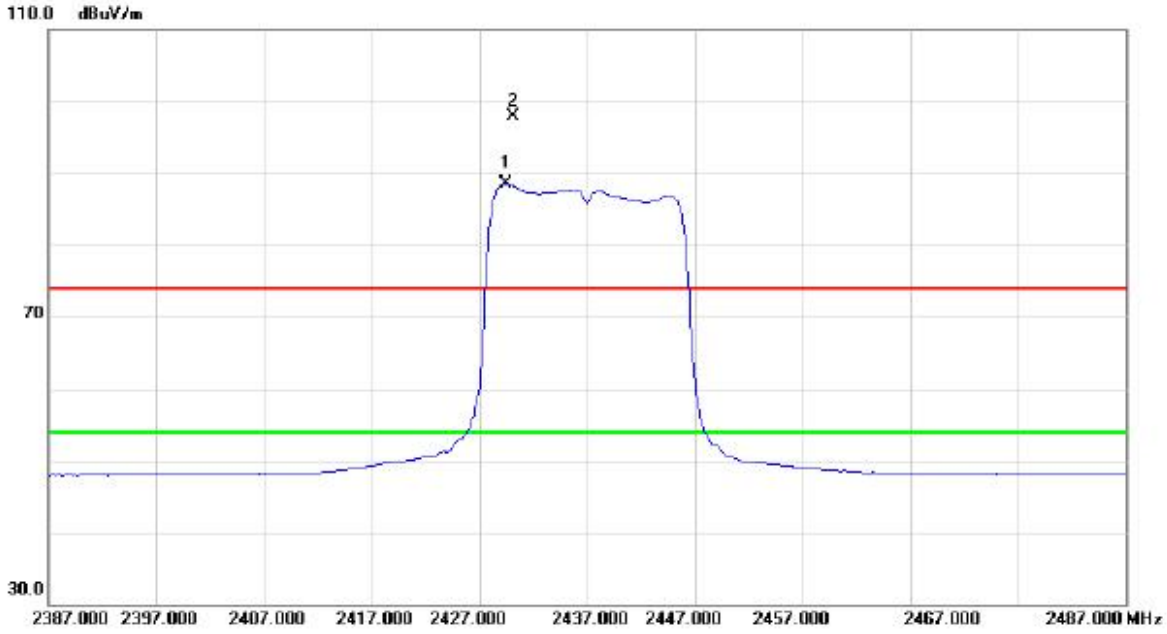
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.040	35.60	3.72	39.32	54.00	-14.68	AVG	
2		4873.820	48.53	3.72	52.25	74.00	-21.75	peak	

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

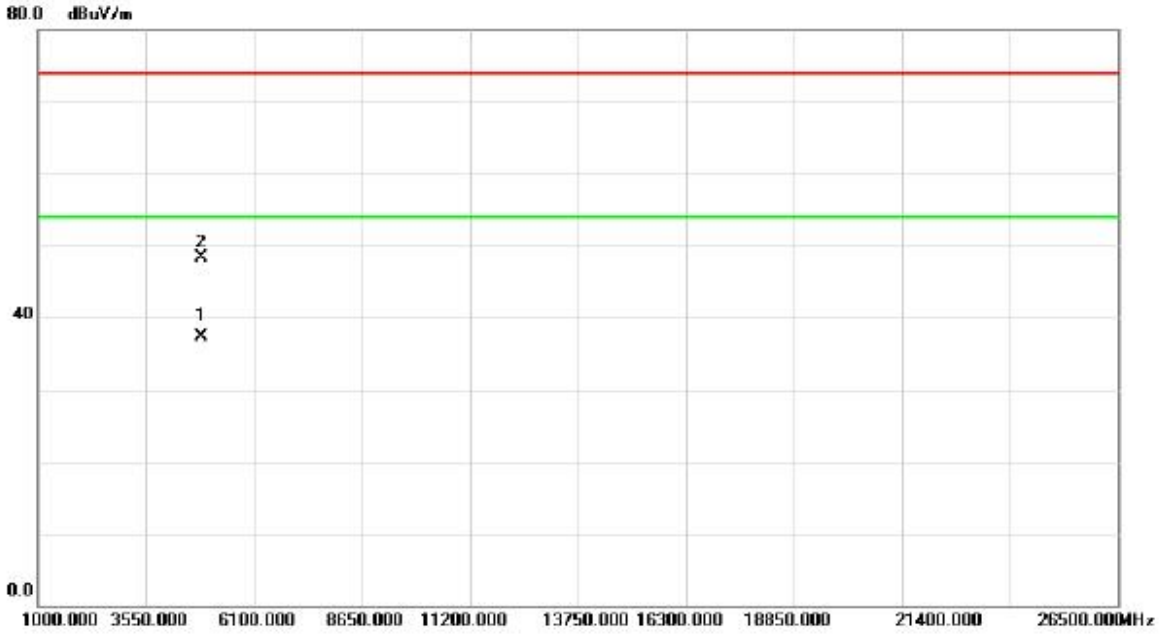
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2429.500	54.27	34.28	88.55	54.00	34.55	AVG	NO LIMIT
2	X	2430.200	63.53	34.28	97.81	74.00	23.81	peak	NO LIMIT

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

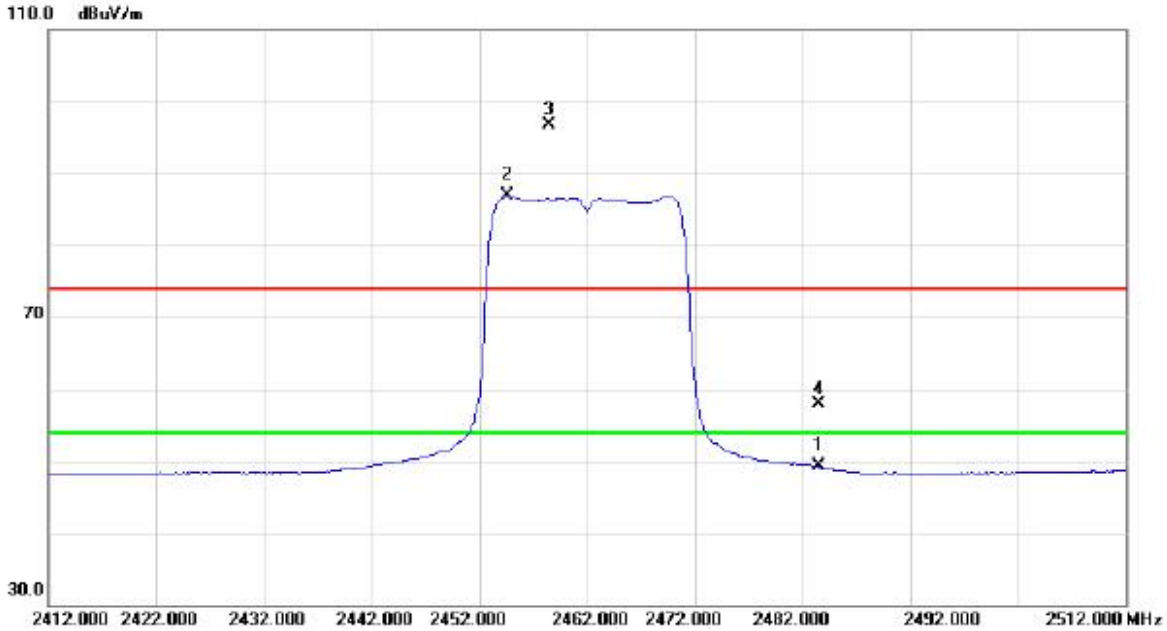
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.000	33.66	3.72	37.38	54.00	-16.62	AVG	
2		4873.880	44.50	3.72	48.22	74.00	-25.78	peak	

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

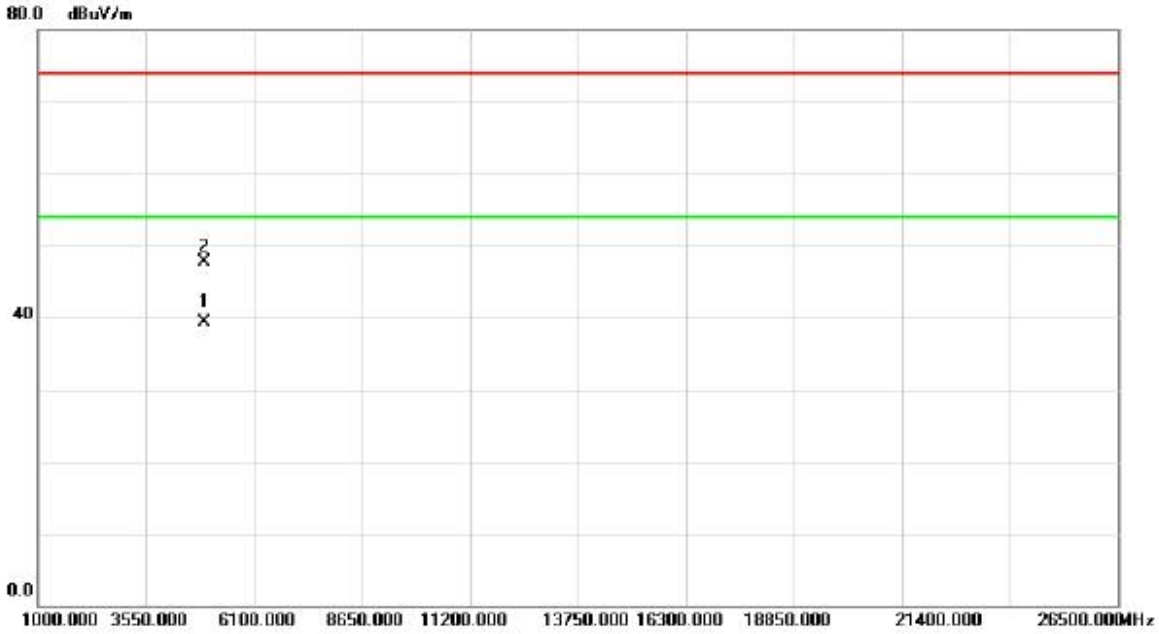
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	14.77	34.43	49.20	54.00	-4.80	AVG	
2	*	2454.600	52.54	34.35	86.89	54.00	32.89	AVG	NO LIMIT
3	X	2458.500	62.32	34.36	96.68	74.00	22.68	peak	NO LIMIT
4		2483.500	23.54	34.43	57.97	74.00	-16.03	peak	

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

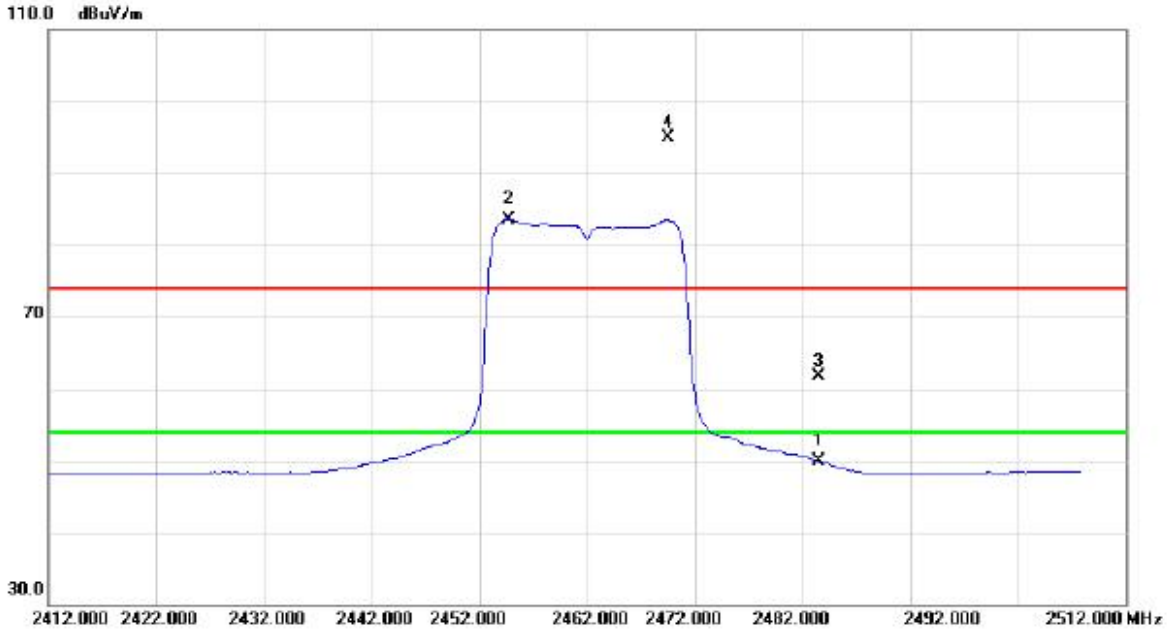
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.000	35.56	3.80	39.36	54.00	-14.64	AVG	
2		4924.040	43.92	3.80	47.72	74.00	-26.28	peak	

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

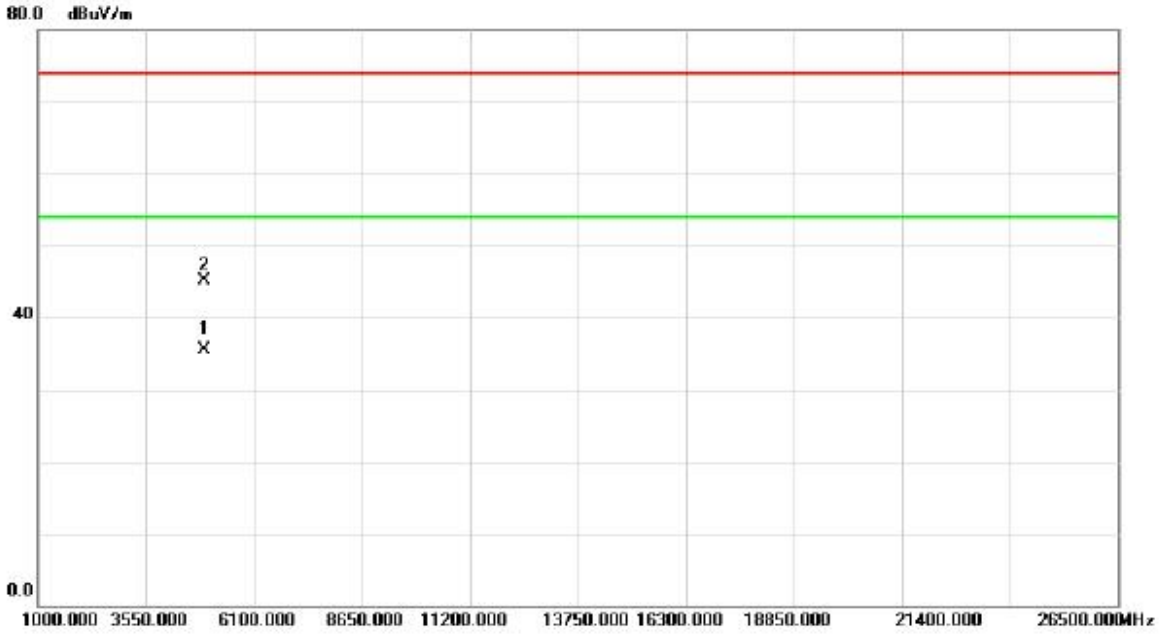
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	15.45	34.43	49.88	54.00	-4.12	AVG	
2	*	2454.700	49.24	34.35	83.59	54.00	29.59	AVG	NO LIMIT
3		2483.500	27.27	34.43	61.70	74.00	-12.30	peak	
4	X	2469.500	60.60	34.40	95.00	74.00	21.00	peak	NO LIMIT

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

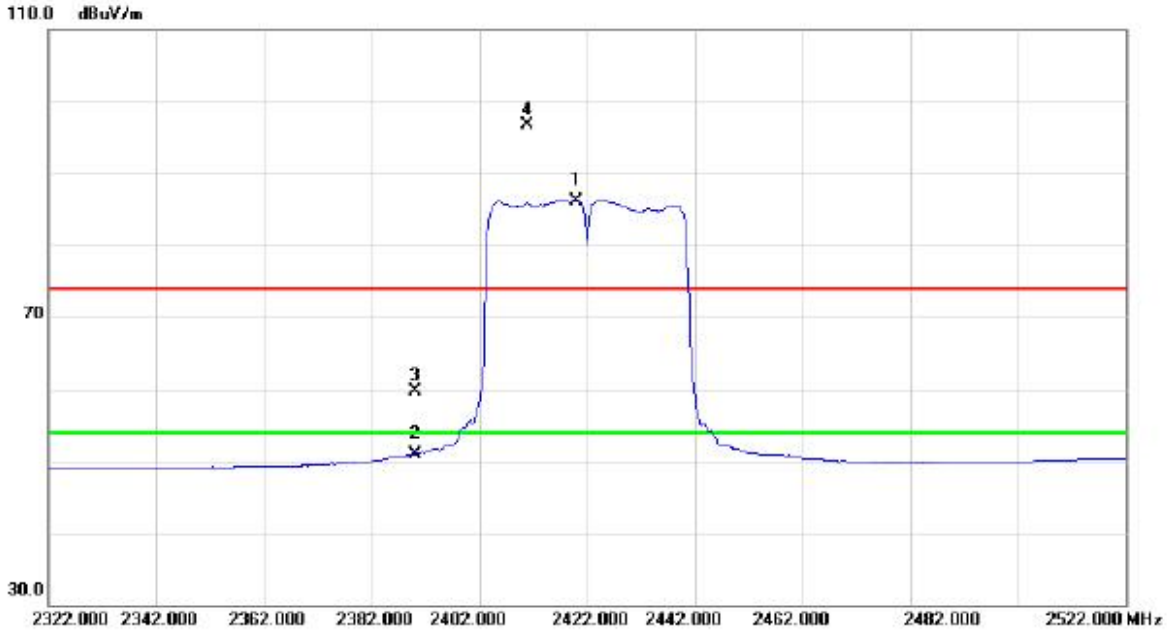
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4924.060	31.67	3.80	35.47	54.00	-18.53	AVG	
2		4924.160	41.21	3.80	45.01	74.00	-28.99	peak	

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

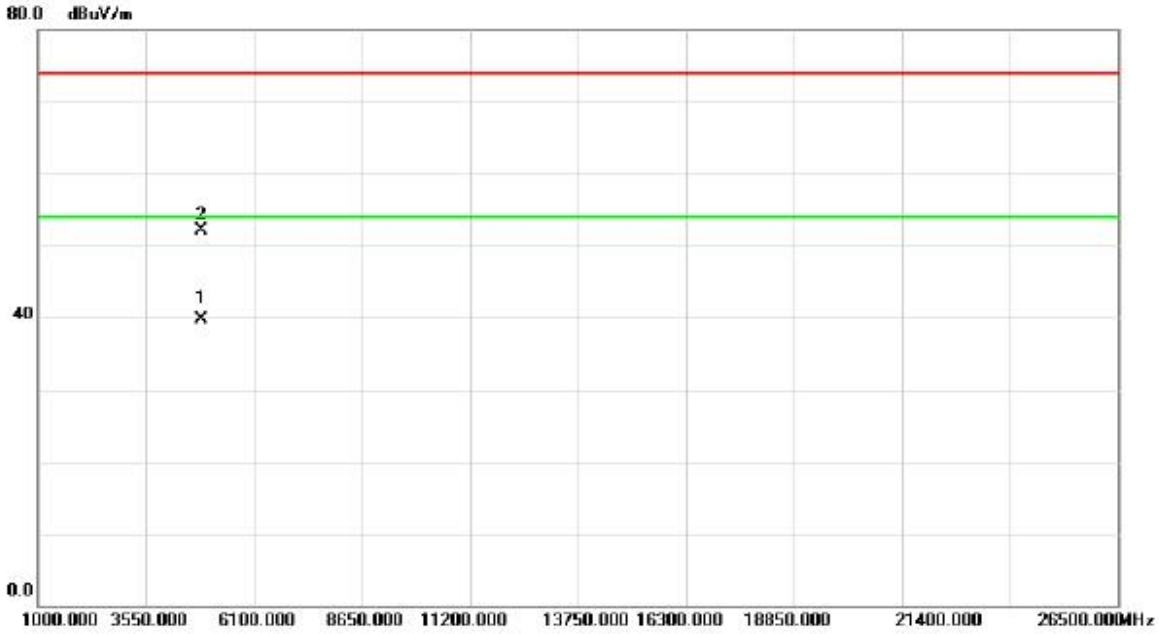
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2420.000	51.94	34.25	86.19	54.00	32.19	AVG	NO LIMIT
2		2390.000	16.82	34.17	50.99	54.00	-3.01	AVG	
3		2390.000	25.60	34.17	59.77	74.00	-14.23	peak	
4	X	2410.800	62.40	34.23	96.63	74.00	22.63	peak	NO LIMIT

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

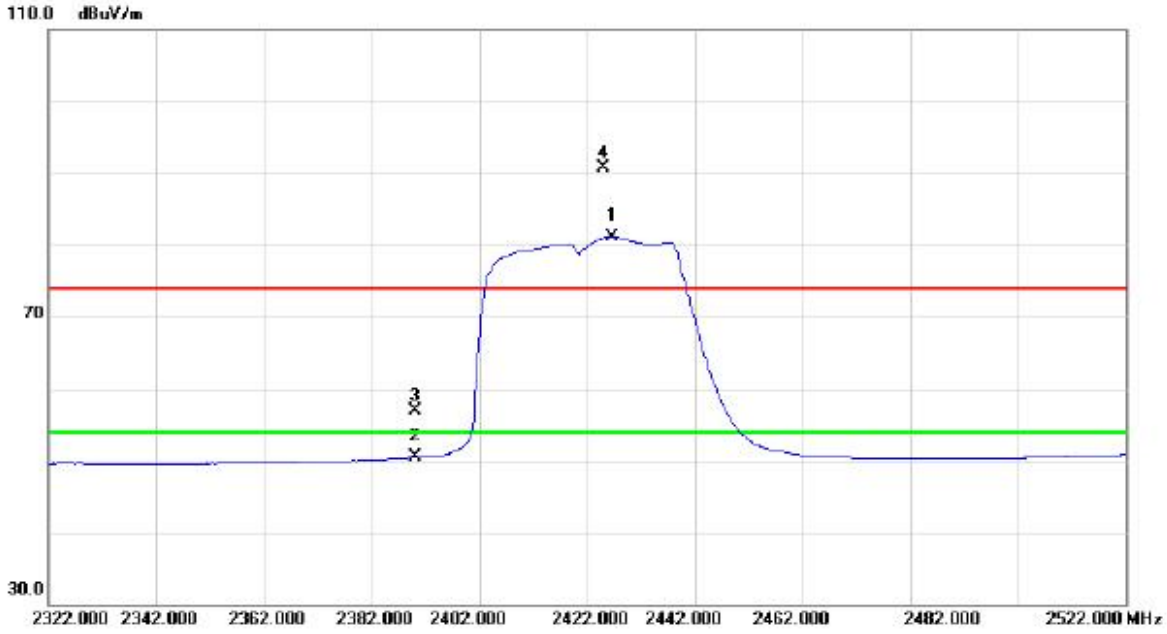
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4844.000	36.09	3.66	39.75	54.00	-14.25	AVG	
2		4843.700	48.52	3.66	52.18	74.00	-21.82	peak	

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

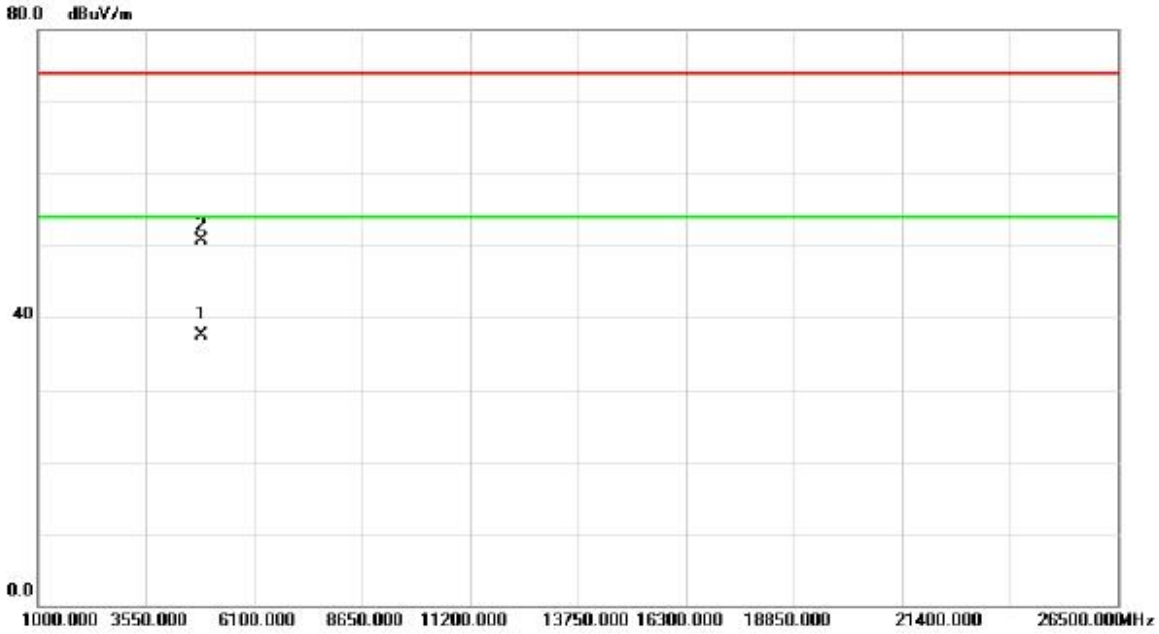
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2426.600	46.84	34.26	81.10	54.00	27.10	AVG	NO LIMIT
2		2390.000	16.30	34.17	50.47	54.00	-3.53	AVG	
3		2390.000	22.72	34.17	56.89	74.00	-17.11	peak	
4	X	2425.000	56.40	34.26	90.66	74.00	16.66	peak	NO LIMIT

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

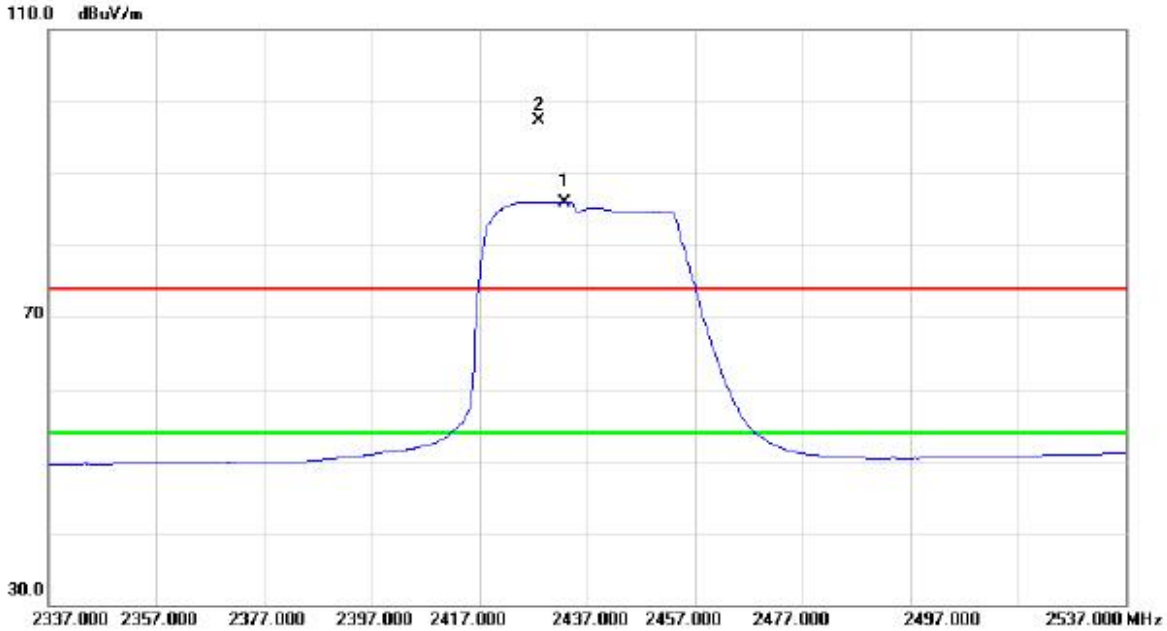
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4844.000	33.92	3.66	37.58	54.00	-16.42	AVG	
2		4843.450	46.97	3.66	50.63	74.00	-23.37	peak	

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

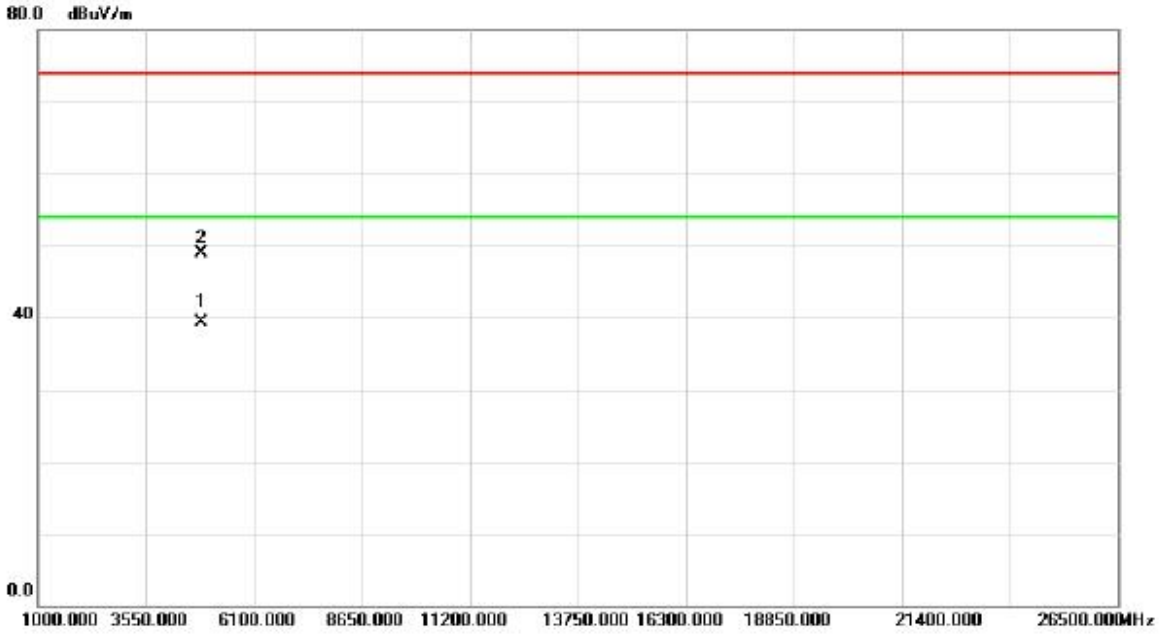
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2432.800	51.65	34.29	85.94	54.00	31.94	AVG	NO LIMIT
2	X	2428.000	63.00	34.28	97.28	74.00	23.28	peak	NO LIMIT

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

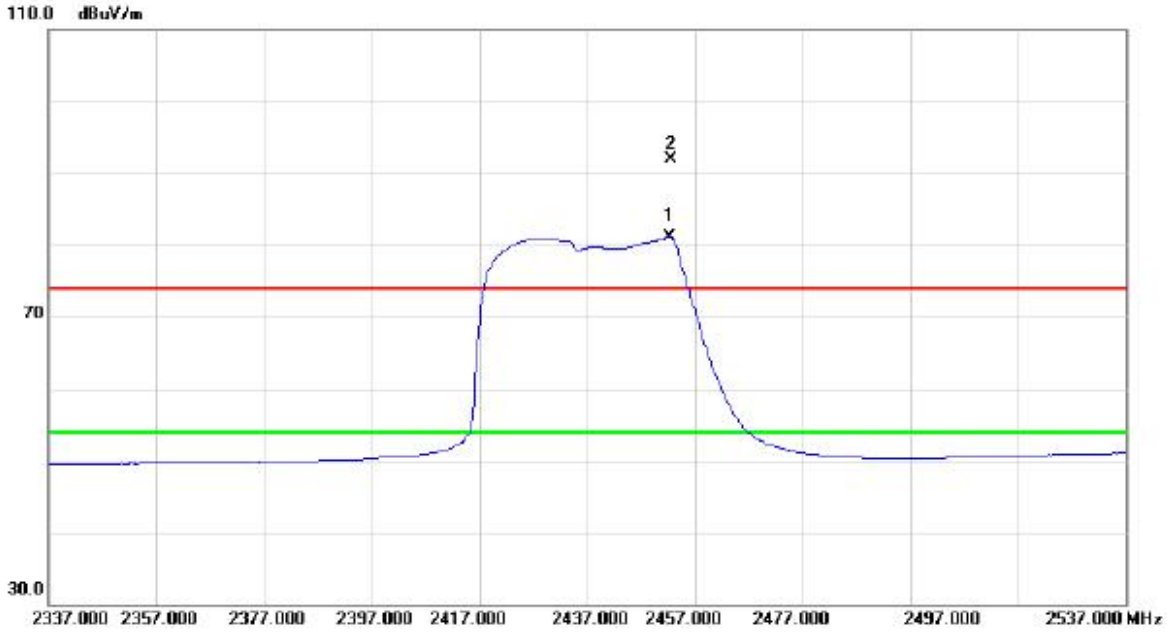
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.000	35.54	3.72	39.26	54.00	-14.74	AVG	
2		4874.350	45.25	3.72	48.97	74.00	-25.03	peak	

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

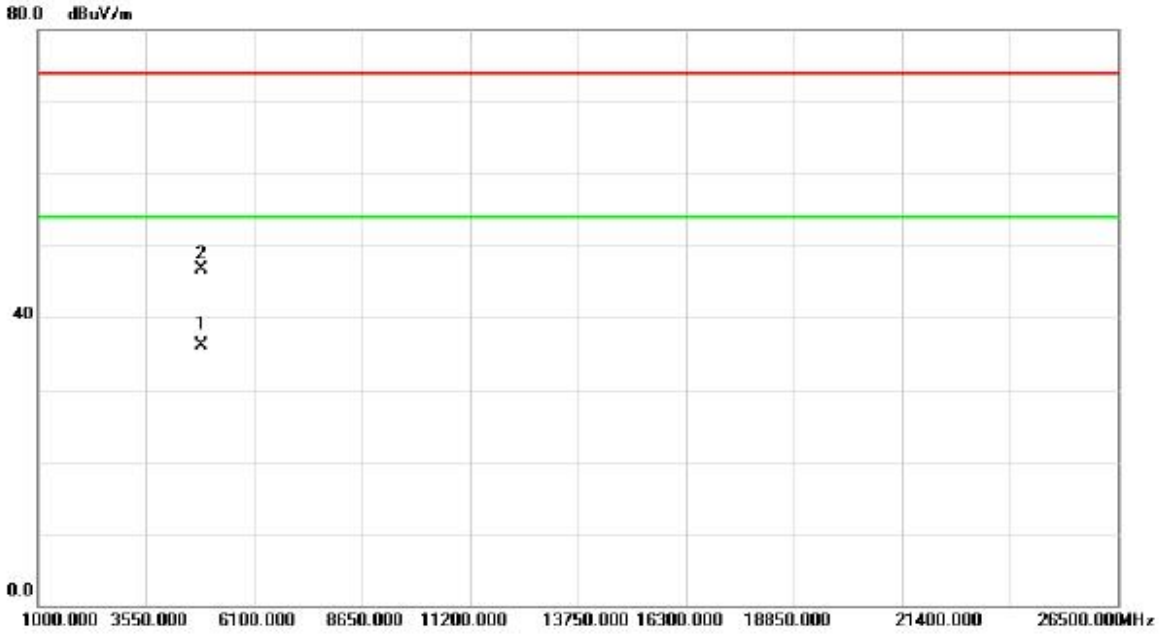
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2452.400	46.78	34.35	81.13	54.00	27.13	AVG	NO LIMIT
2	X	2452.600	57.63	34.35	91.98	74.00	17.98	peak	NO LIMIT

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

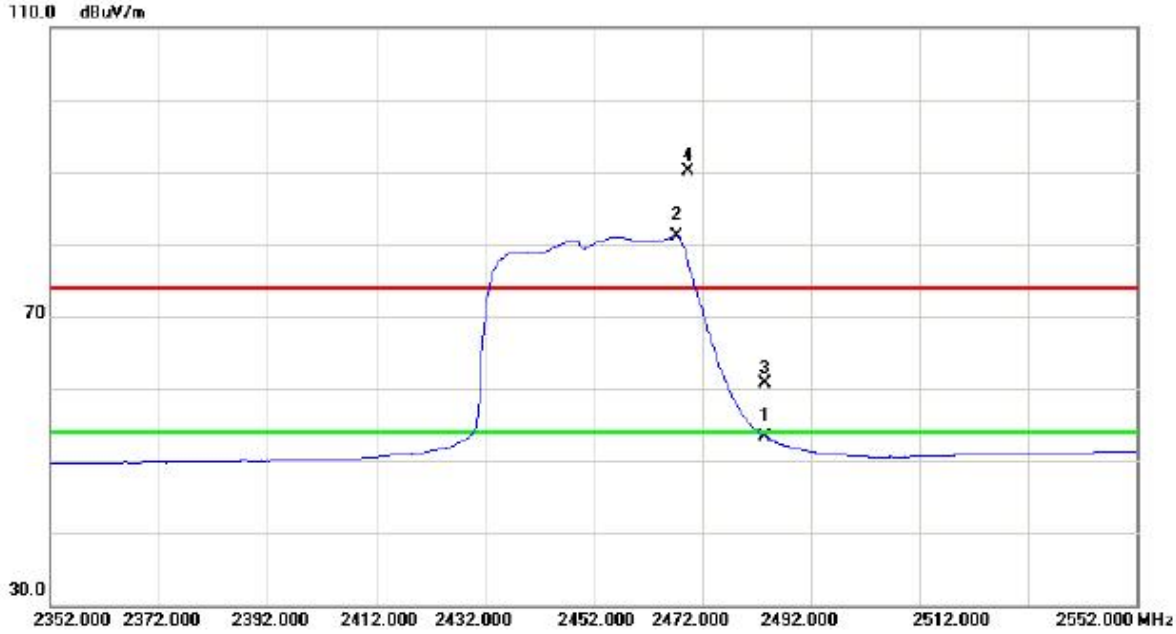
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4874.000	32.34	3.72	36.06	54.00	-17.94	AVG	
2		4874.160	42.99	3.72	46.71	74.00	-27.29	peak	

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

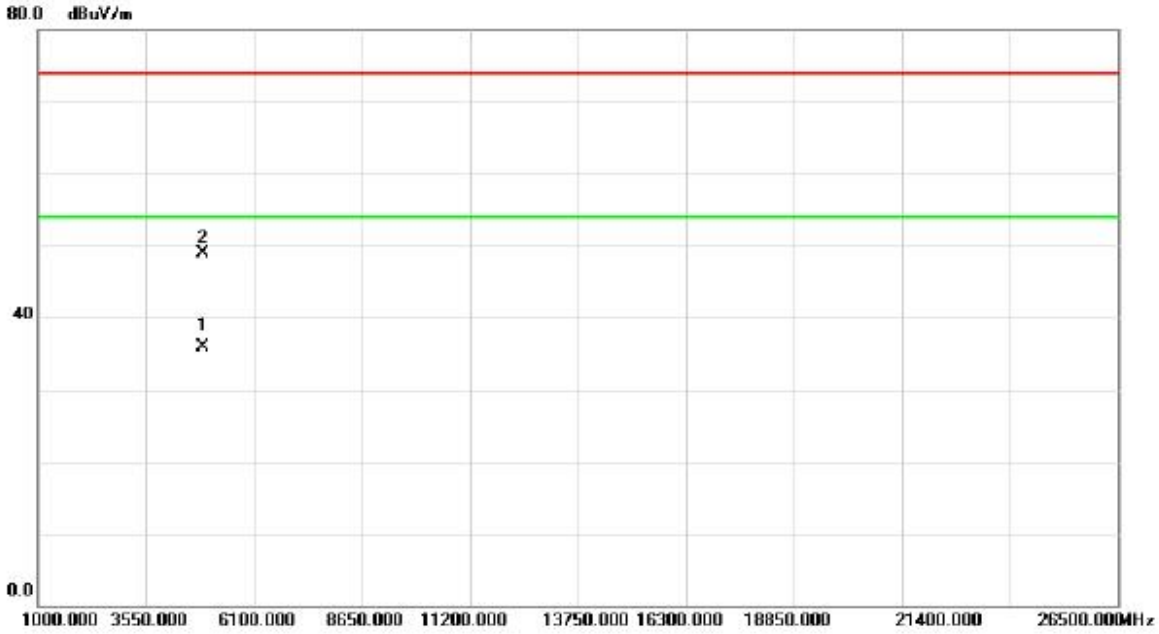
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	18.97	34.43	53.40	54.00	-0.60	AVG	
2	*	2467.400	46.63	34.38	81.01	54.00	27.01	AVG	NO LIMIT
3		2483.500	26.18	34.43	60.61	74.00	-13.39	peak	
4	X	2469.400	55.76	34.40	90.16	74.00	16.16	peak	NO LIMIT

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

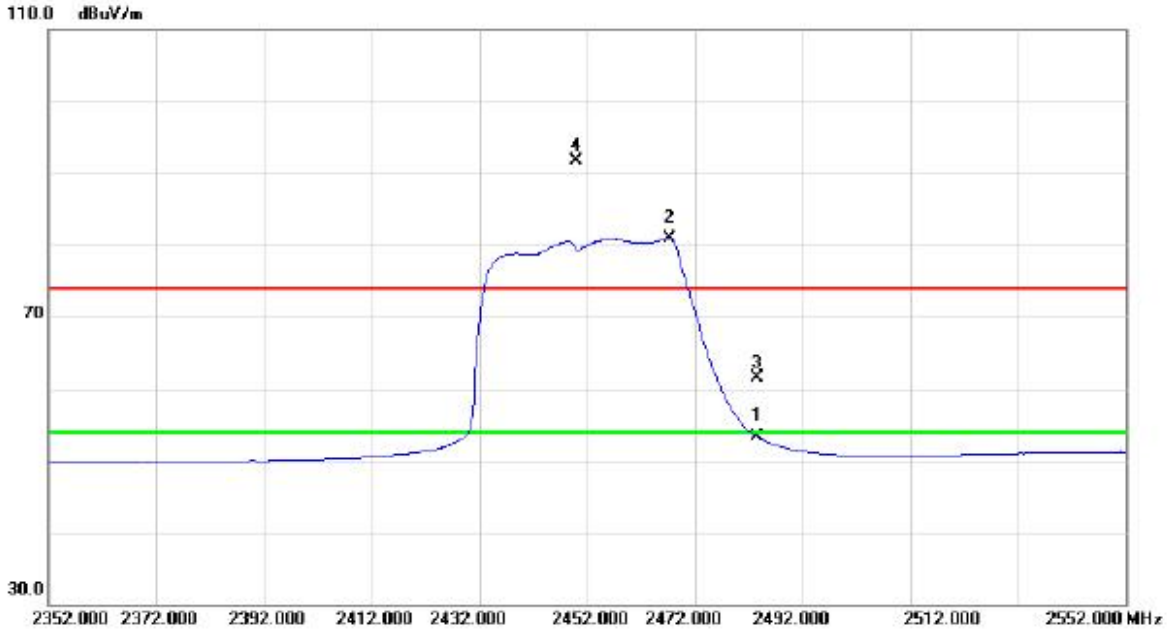
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4903.950	32.16	3.77	35.93	54.00	-18.07	AVG	
2		4904.800	45.16	3.77	48.93	74.00	-25.07	peak	

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

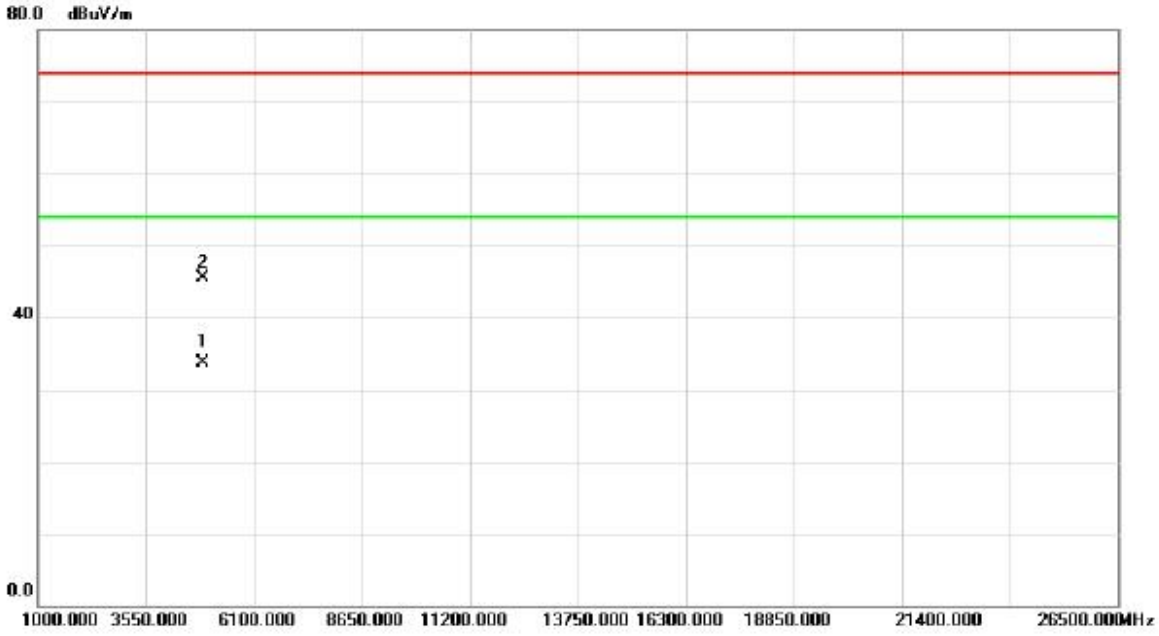
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	18.92	34.43	53.35	54.00	-0.65	AVG	
2	*	2467.400	46.56	34.38	80.94	54.00	26.94	AVG	NO LIMIT
3		2483.500	27.02	34.43	61.45	74.00	-12.55	peak	NO LIMIT
4	X	2450.000	57.41	34.34	91.75	74.00	17.75	peak	

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

Horizontal



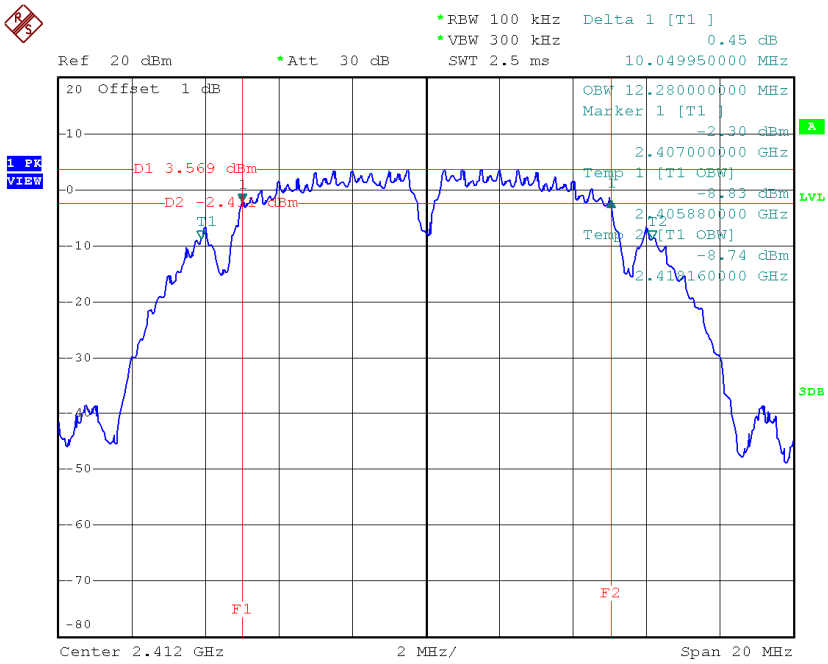
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4903.950	29.97	3.77	33.74	54.00	-20.26	AVG	
2		4904.450	41.71	3.77	45.48	74.00	-28.52	peak	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

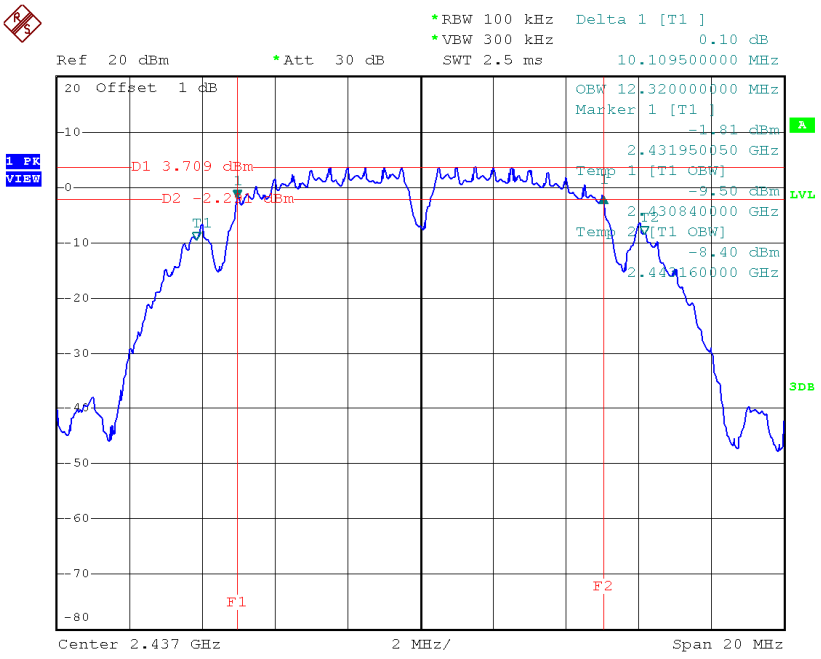
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.04	12.28	500	Complies
2437	10.10	12.32	500	Complies
2462	10.05	12.28	500	Complies

TX CH01



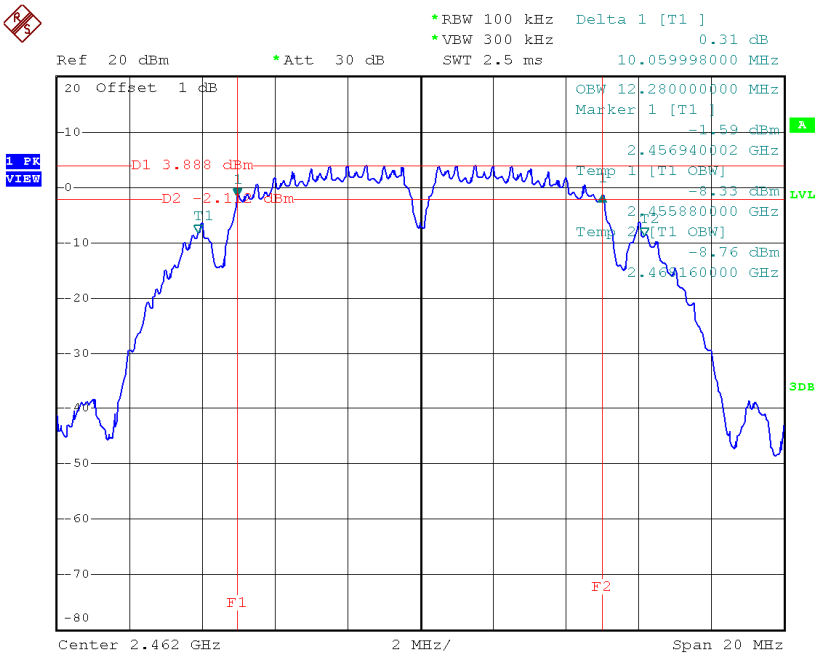
Date: 10.APR.2015 17:49:27

TX CH06



Date: 10.APR.2015 17:52:11

TX CH11

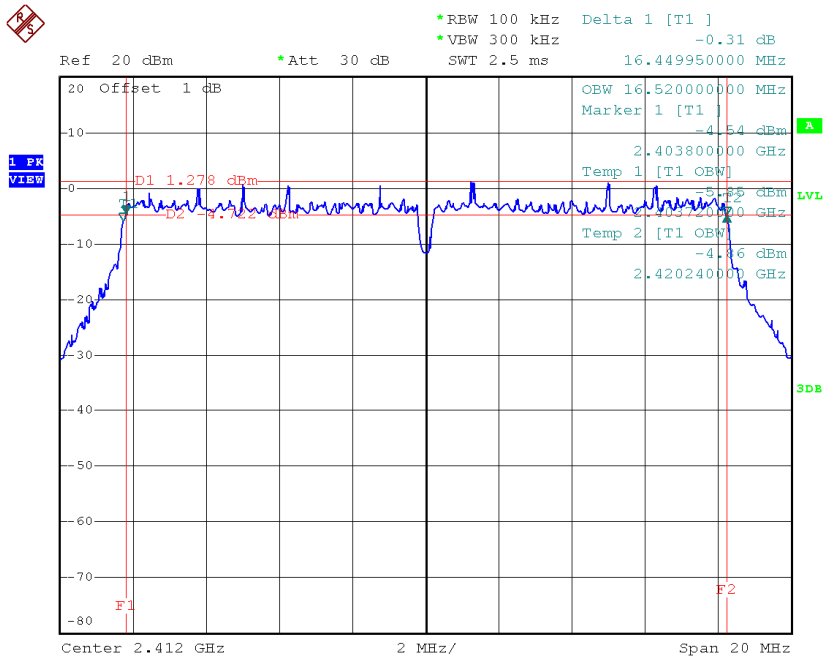


Date: 10.APR.2015 17:55:40

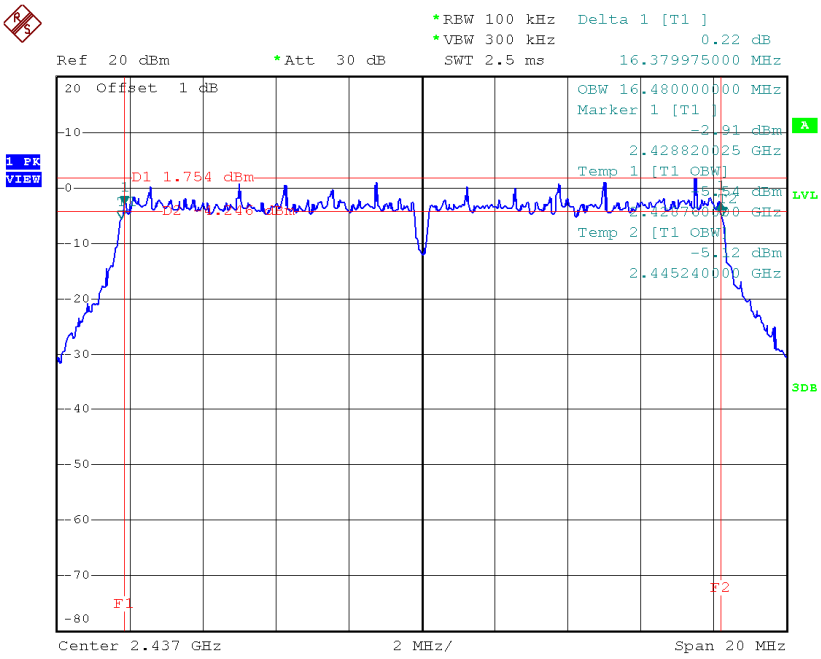
Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.44	16.52	500	Complies
2437	16.37	16.48	500	Complies
2462	16.41	16.52	500	Complies

TX CH01

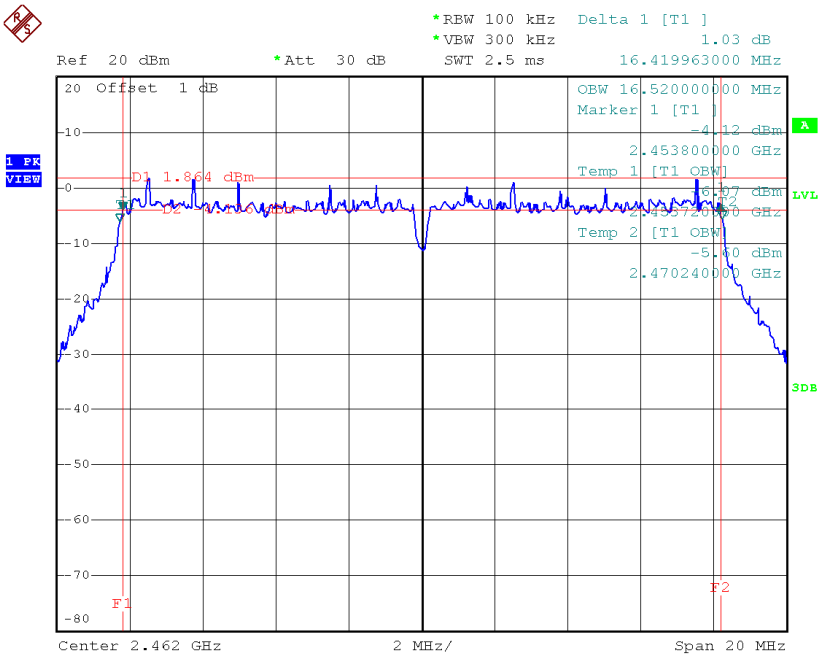


TX CH06



Date: 10.APR.2015 18:00:09

TX CH11

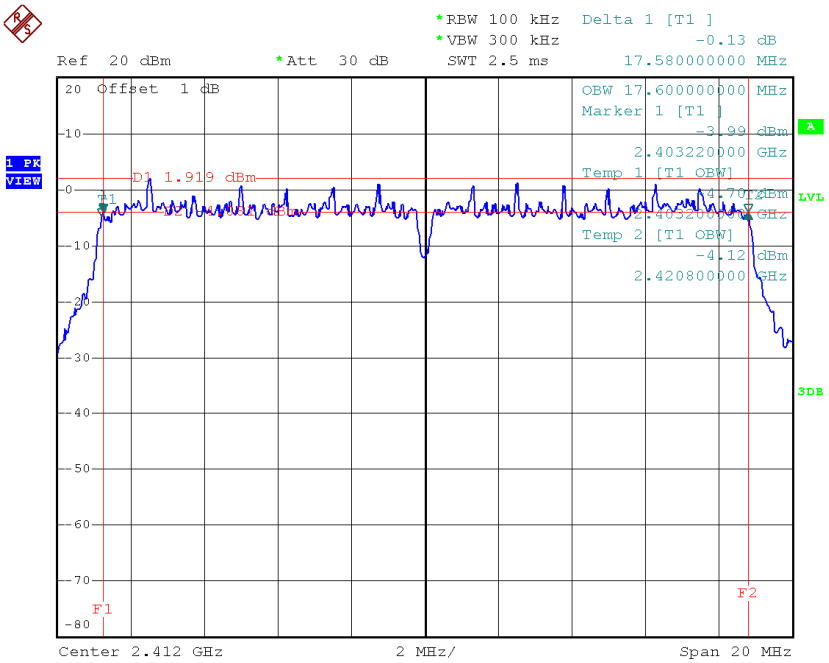


Date: 10.APR.2015 18:01:35

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

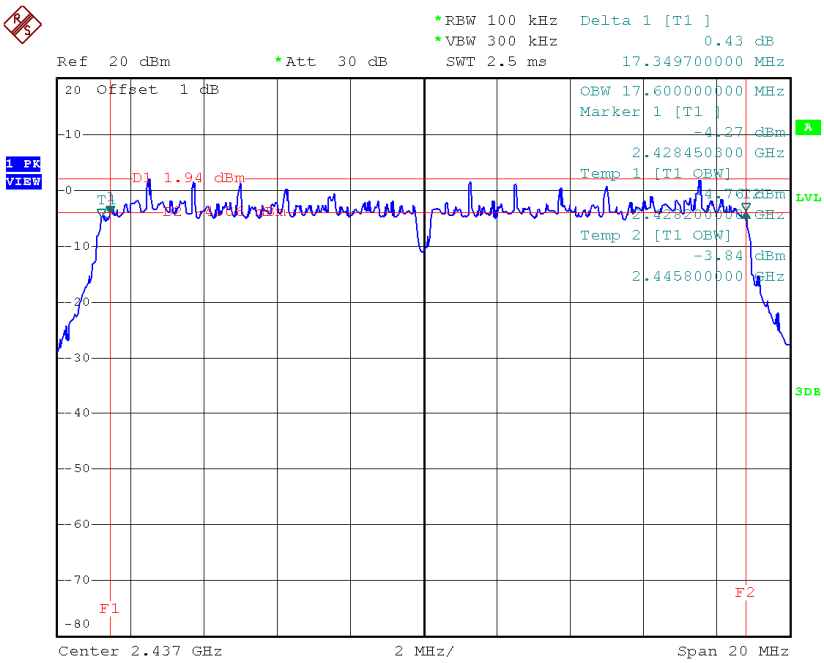
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.58	17.60	500	Complies
2437	17.34	17.60	500	Complies
2462	17.33	17.60	500	Complies

TX CH01



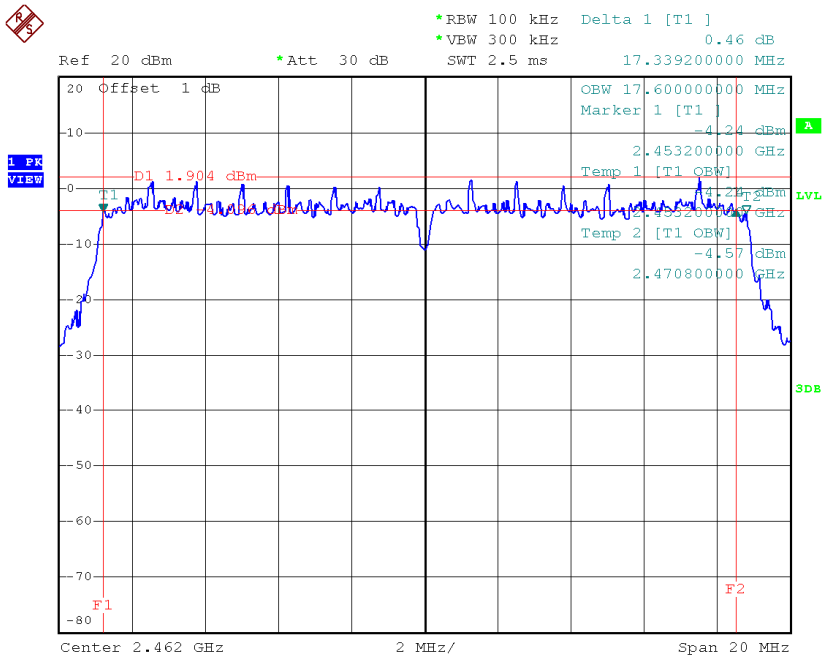
Date: 10.APR.2015 18:03:49

TX CH06



Date: 10.APR.2015 18:05:24

TX CH11

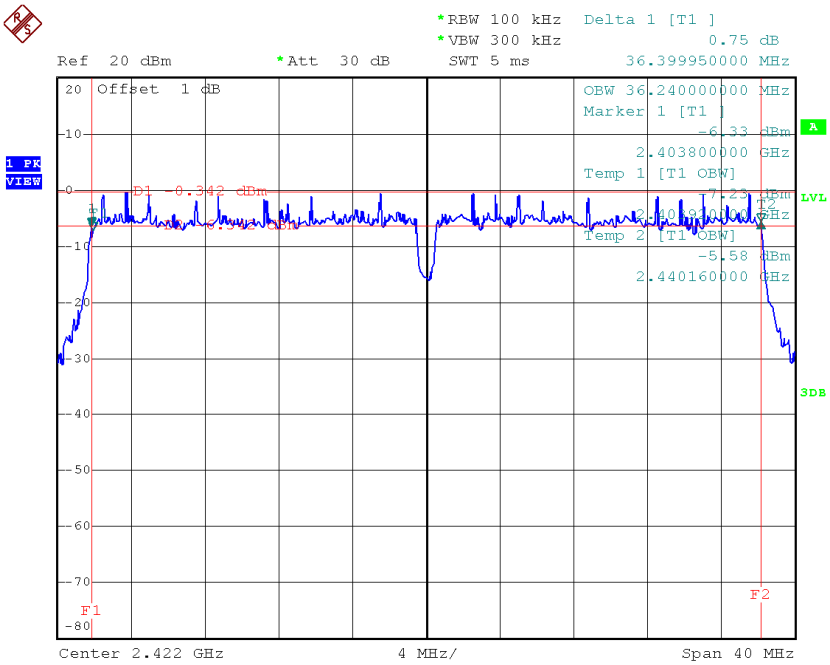


Date: 10.APR.2015 18:06:53

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

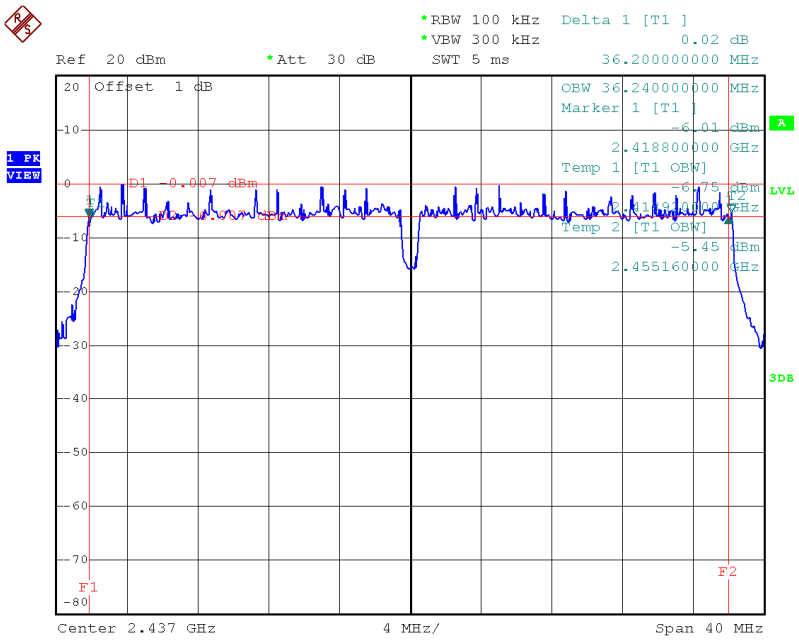
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.39	36.24	500	Complies
2437	36.20	36.24	500	Complies
2452	36.40	36.24	500	Complies

TX CH03



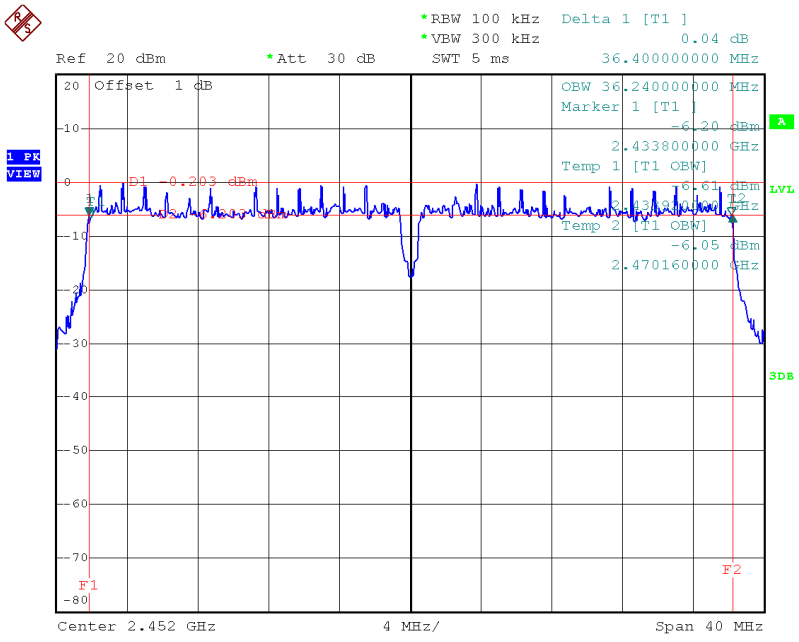
Date: 10.APR.2015 18:08:52

TX CH06



Date: 10.APR.2015 18:10:29

TX CH09



Date: 10.APR.2015 18:11:51

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

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

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.62	13.37	30.00	1.00	Complies
2437	17.38	13.62	30.00	1.00	Complies
2462	16.67	13.41	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.22	13.68	30.00	1.00	Complies
2437	16.96	13.82	30.00	1.00	Complies
2462	17.34	13.78	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.94	16.54	30.00	1.00	Complies
2437	20.19	16.73	30.00	1.00	Complies
2462	20.03	16.61	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.98	11.31	30.00	1.00	Complies
2437	19.38	11.73	30.00	1.00	Complies
2462	18.71	11.43	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.89	10.72	30.00	1.00	Complies
2437	18.11	11.37	30.00	1.00	Complies
2462	19.36	10.84	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.95	14.04	30.00	1.00	Complies
2437	21.80	14.56	30.00	1.00	Complies
2462	22.06	14.16	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.68	11.27	30.00	1.00	Complies
2437	19.05	11.53	30.00	1.00	Complies
2462	19.35	11.73	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.67	11.82	30.00	1.00	Complies
2437	19.07	11.58	30.00	1.00	Complies
2462	19.34	11.63	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.69	14.56	30.00	1.00	Complies
2437	22.07	14.57	30.00	1.00	Complies
2462	22.36	14.69	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	19.34	11.59	30.00	1.00	Complies
2437	19.24	11.74	30.00	1.00	Complies
2452	19.66	11.34	30.00	1.00	Complies

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

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	19.71	11.48	30.00	1.00	Complies
2437	19.16	11.36	30.00	1.00	Complies
2452	19.06	11.51	30.00	1.00	Complies

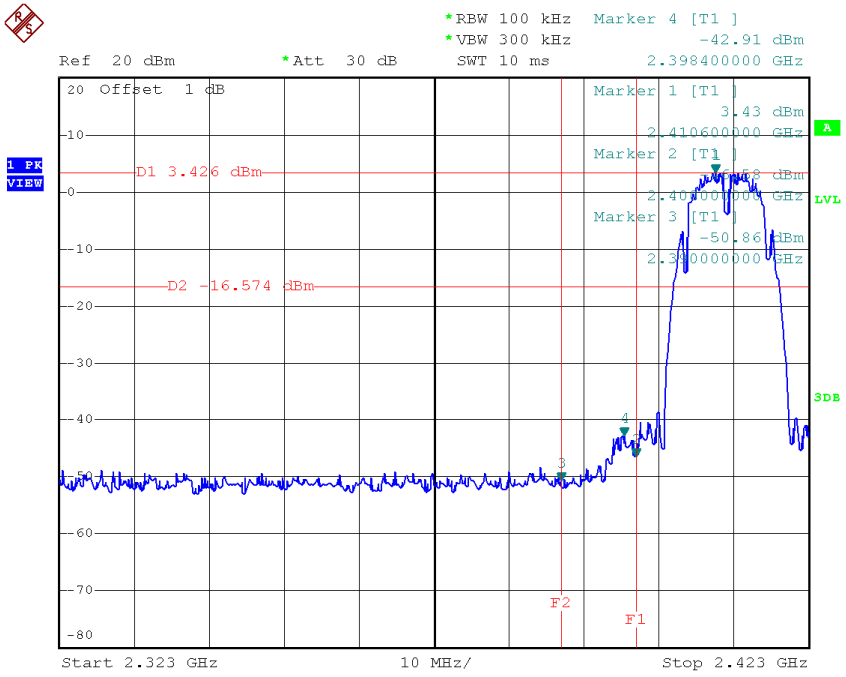
Test Mode :TX N40 Mode_CH03/06/09_Total

Frequency (MHz)	Conducted Peak Power (dBm)	Conducted Average Power (dBm)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	22.54	14.55	30.00	1.00	Complies
2437	22.21	14.56	30.00	1.00	Complies
2452	22.38	14.44	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

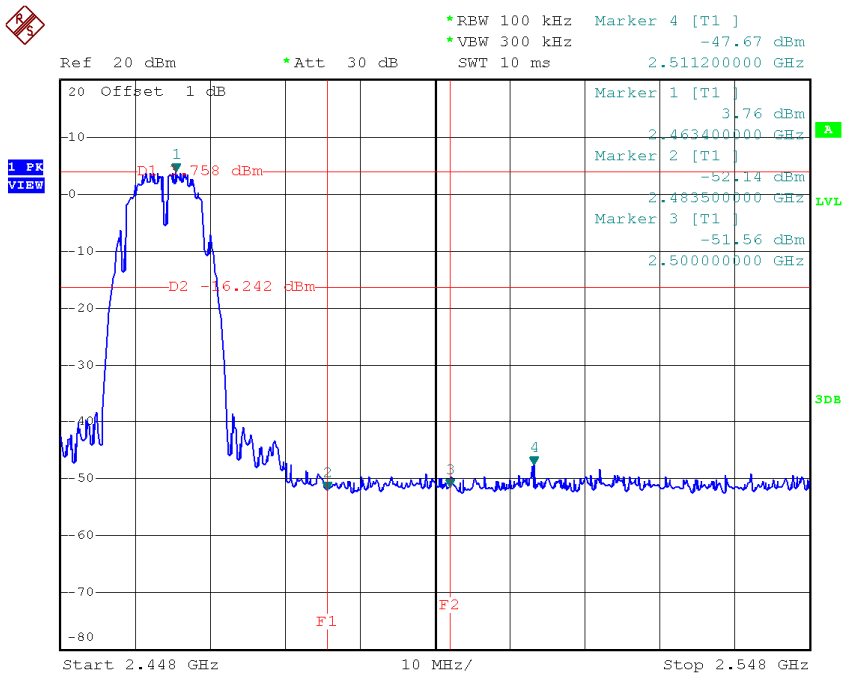
Test Mode :	TX B Mode_ANT 1

TX B mode CH01



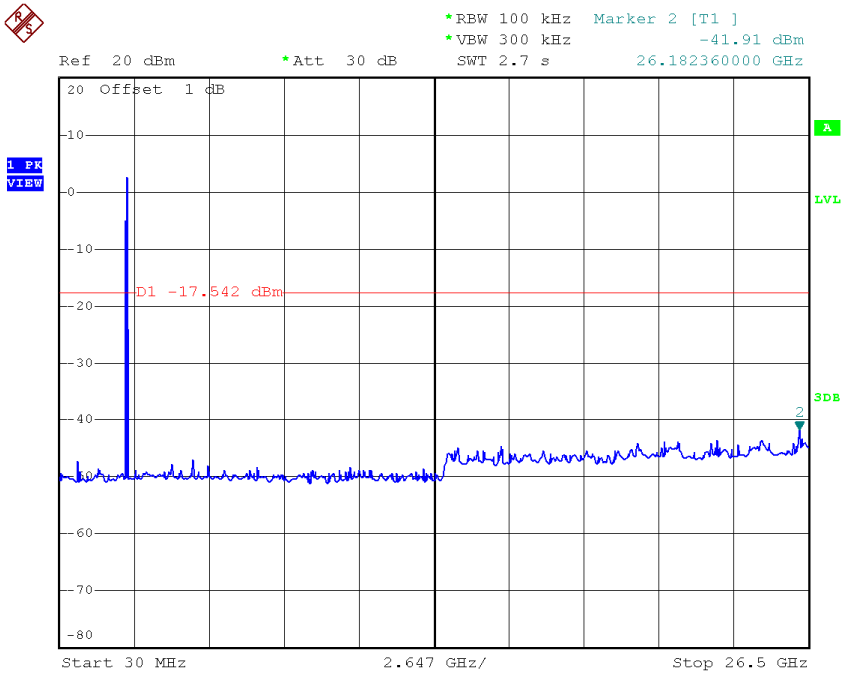
Date: 10.APR.2015 17:49:48

TX B mode CH11



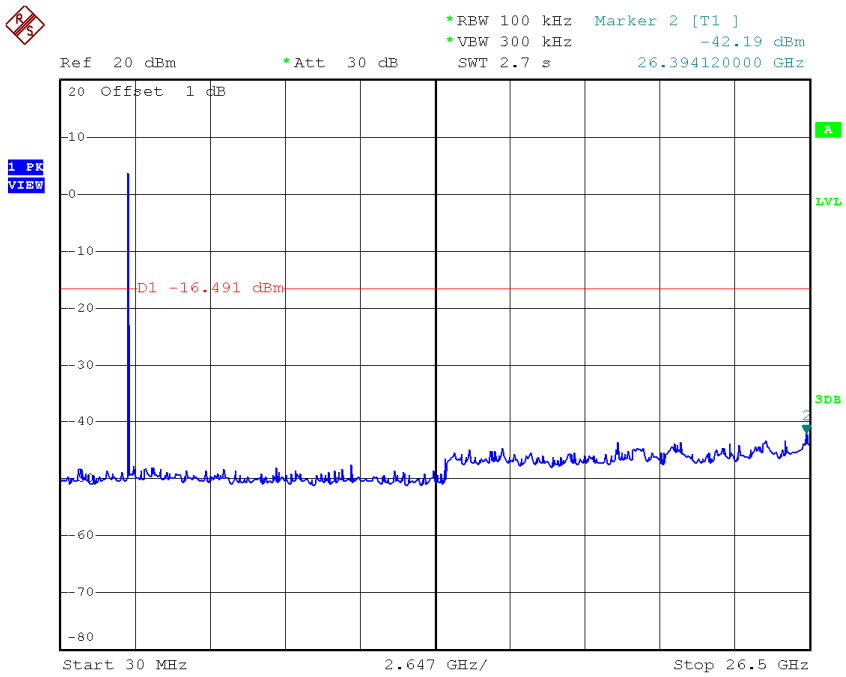
Date: 10.APR.2015 17:56:01

TX B mode CH01 (10 Harmonic of the frequency)



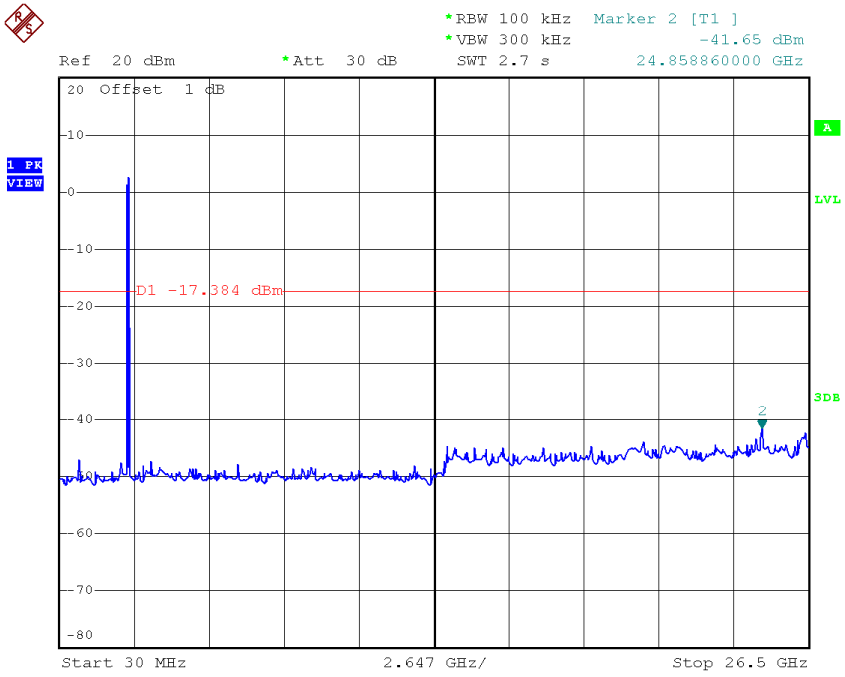
Date: 10.APR.2015 17:49:41

TX B mode CH06 (10 Harmonic of the frequency)



Date: 10.APR.2015 17:52:26

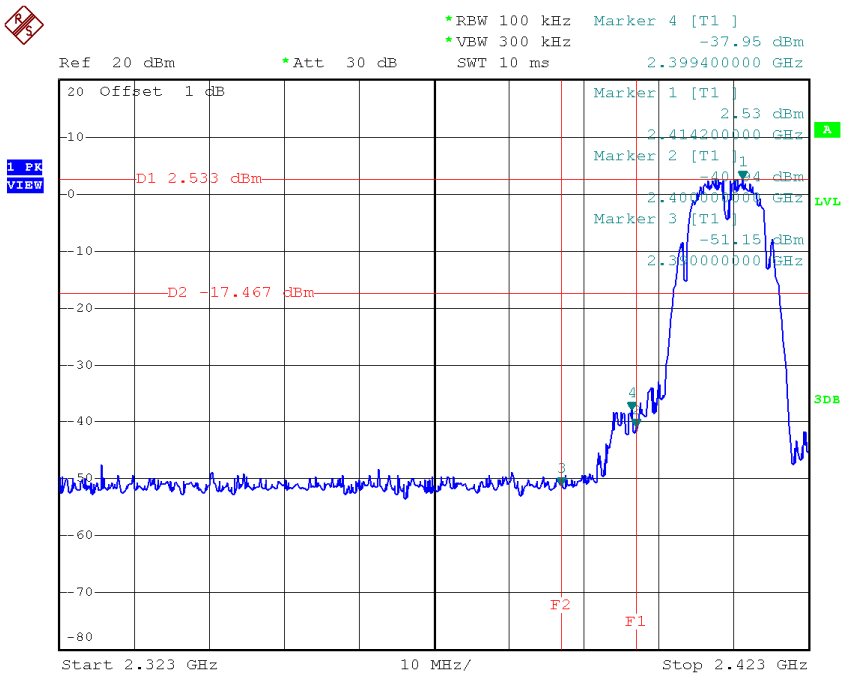
TX B mode CH11 (10 Harmonic of the frequency)



Date: 10.APR.2015 17:55:53

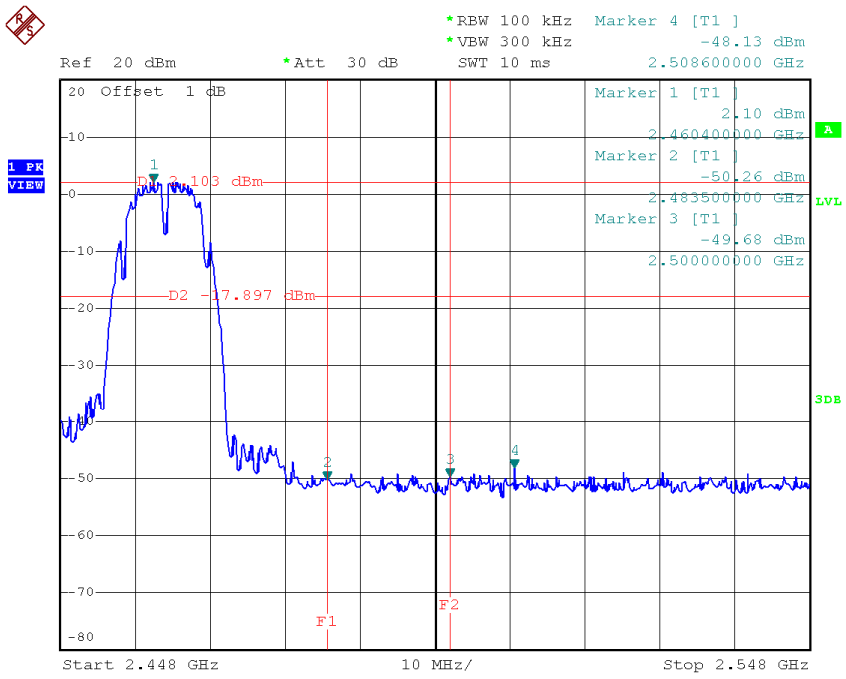
Test Mode :	TX B Mode_ANT 2

TX B mode CH01



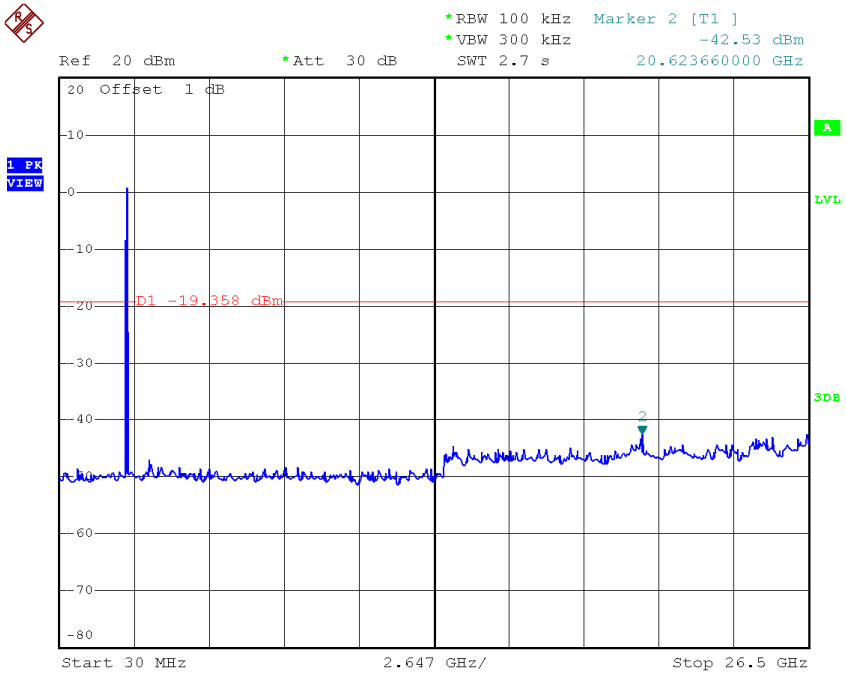
Date: 10.APR.2015 18:18:48

TX B mode CH11



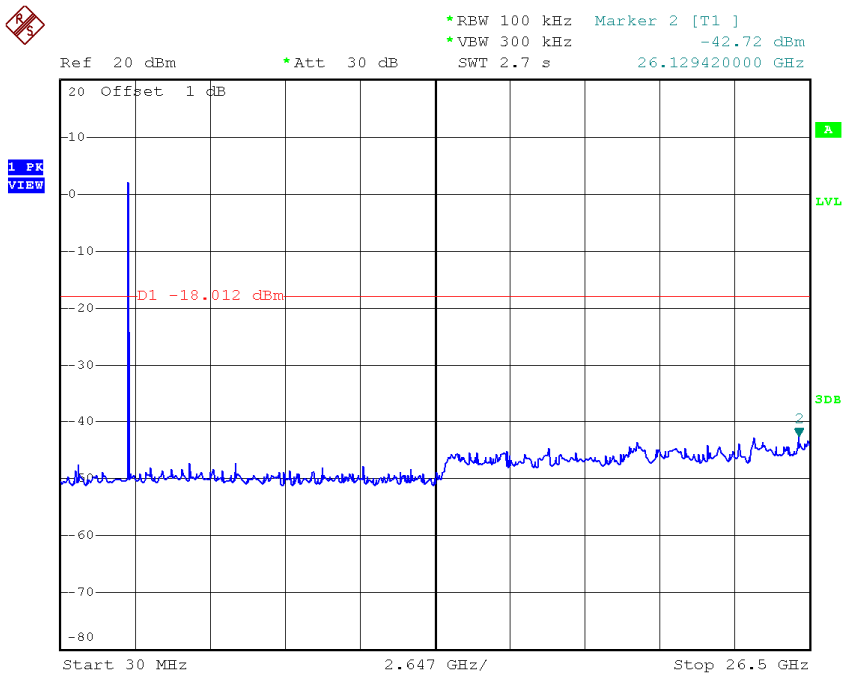
Date: 10.APR.2015 18:22:00

TX B mode CH01 (10 Harmonic of the frequency)



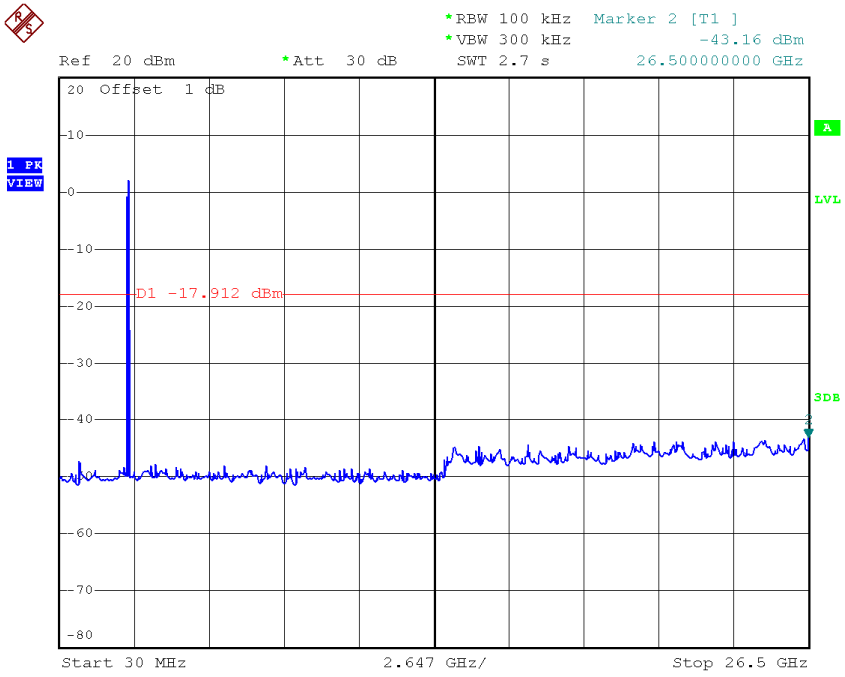
Date: 10.APR.2015 18:18:41

TX B mode CH06 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:20:21

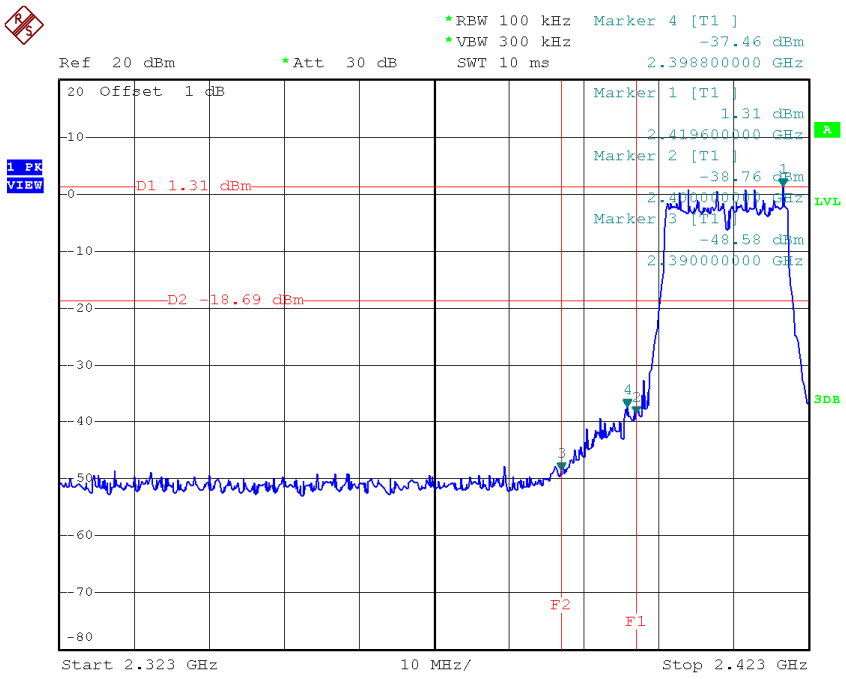
TX B mode CH11 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:21:53

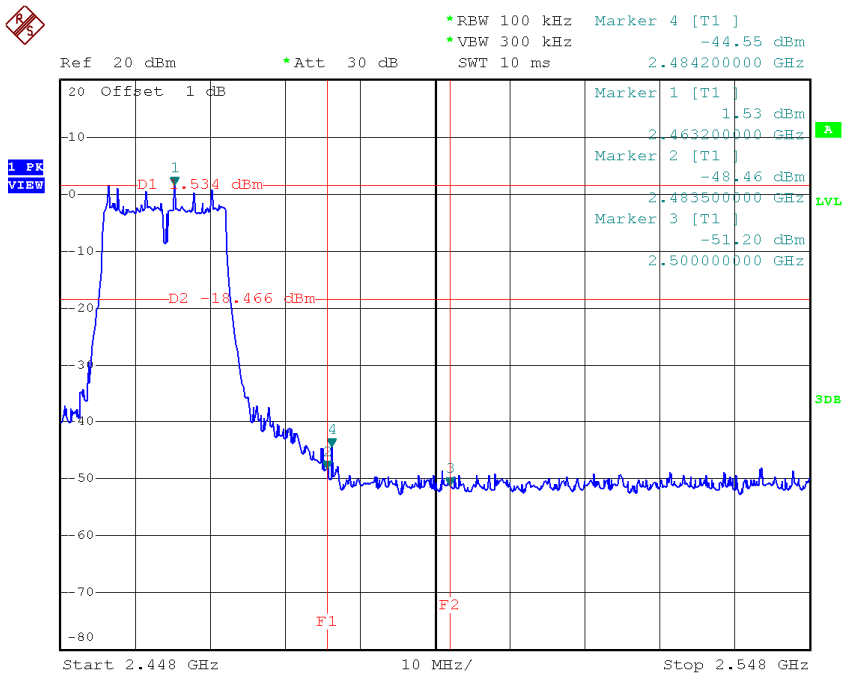
Test Mode :	TX G Mode_ANT 1

TX G mode CH01



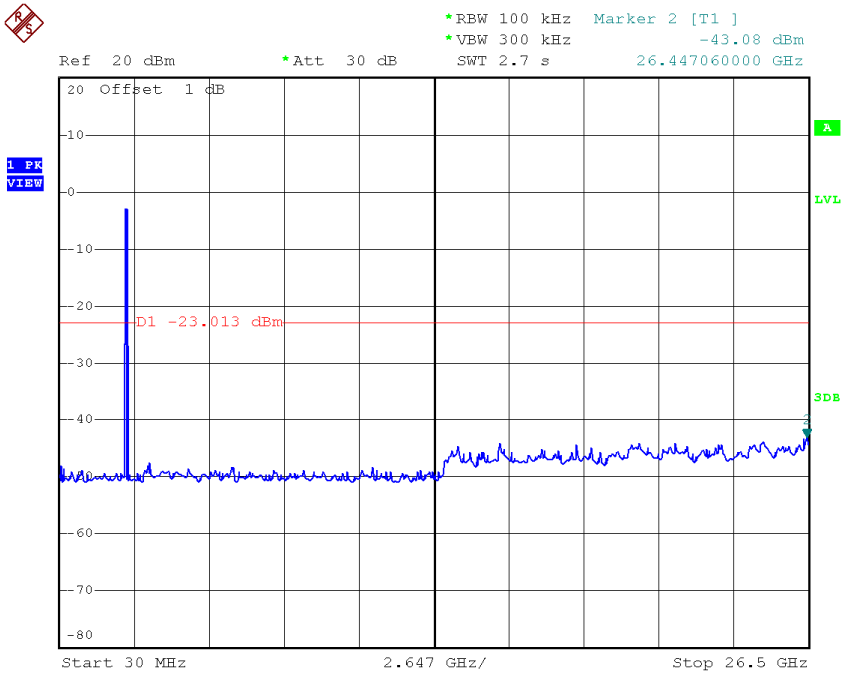
Date: 10.APR.2015 17:57:53

TX G mode CH11



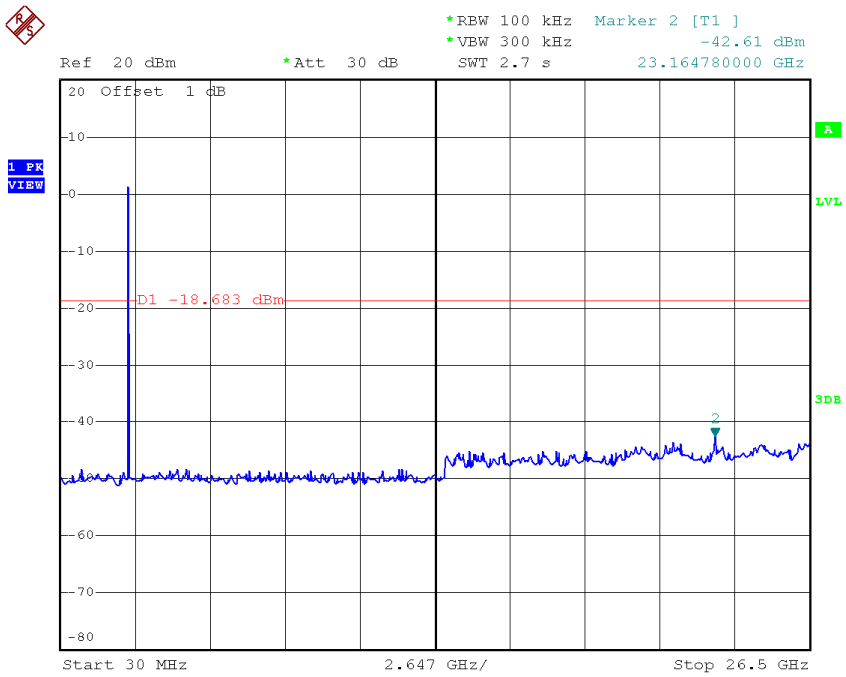
Date: 10.APR.2015 18:01:57

TX G mode CH01 (10 Harmonic of the frequency)



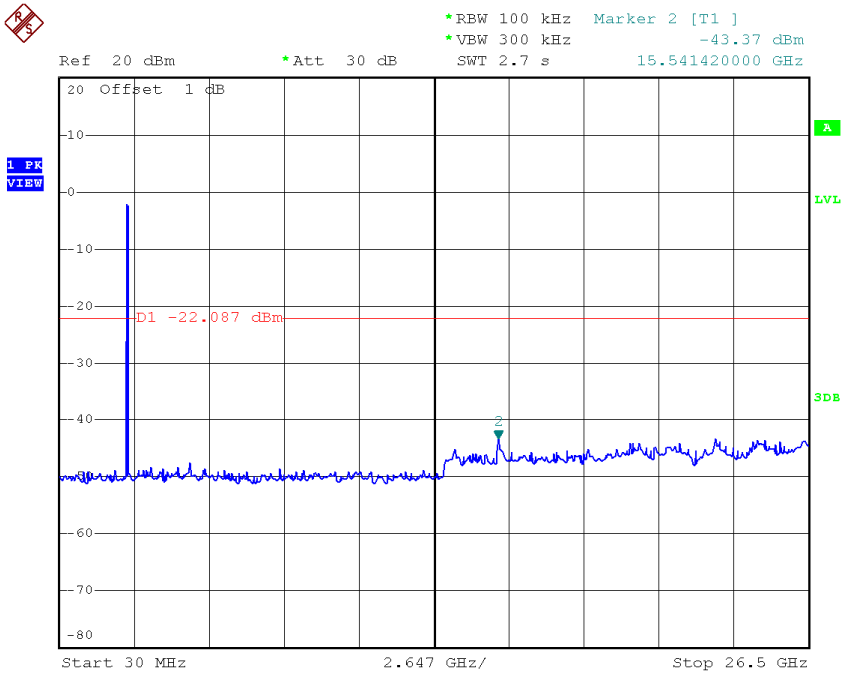
Date: 10.APR.2015 17:57:46

TX G mode CH06 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:00:23

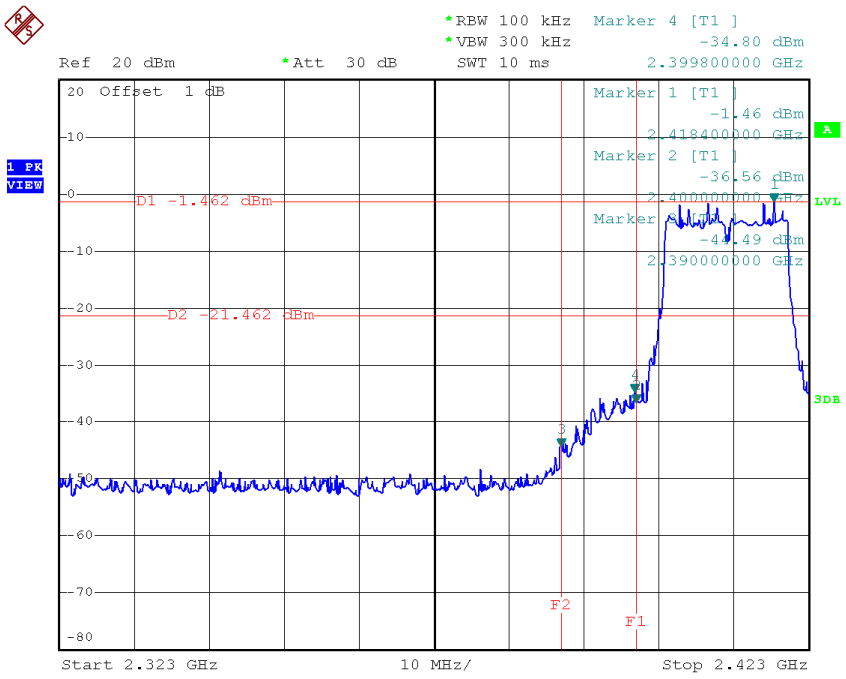
TX G mode CH11 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:01:49

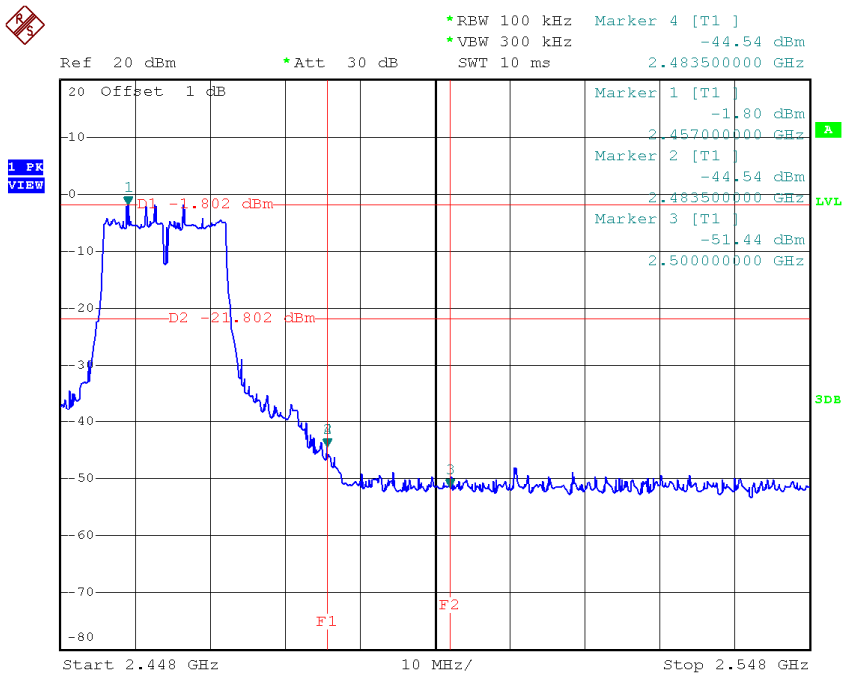
Test Mode :	TX G Mode_ANT 2

TX G mode CH01



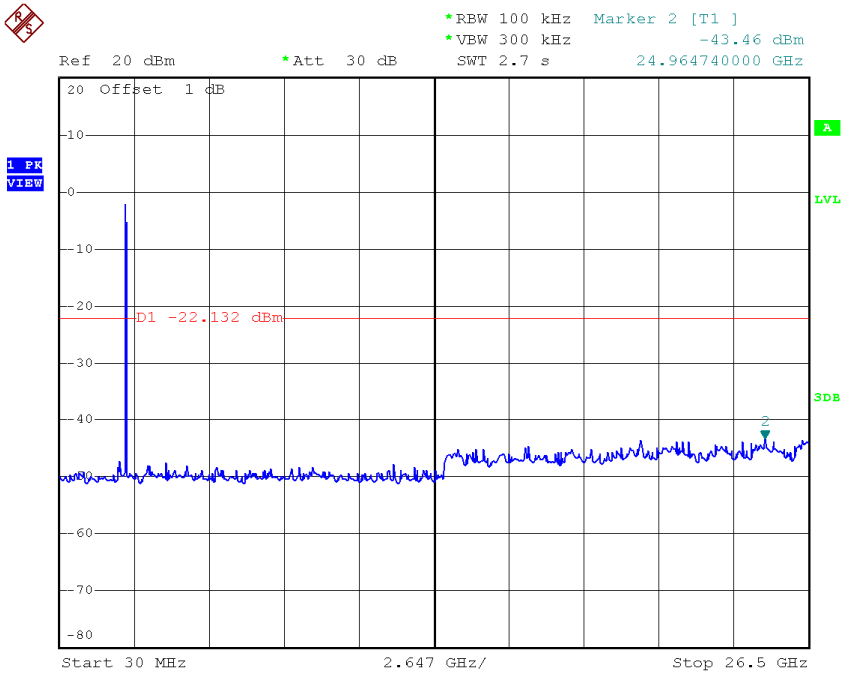
Date: 10.APR.2015 18:23:46

TX G mode CH11



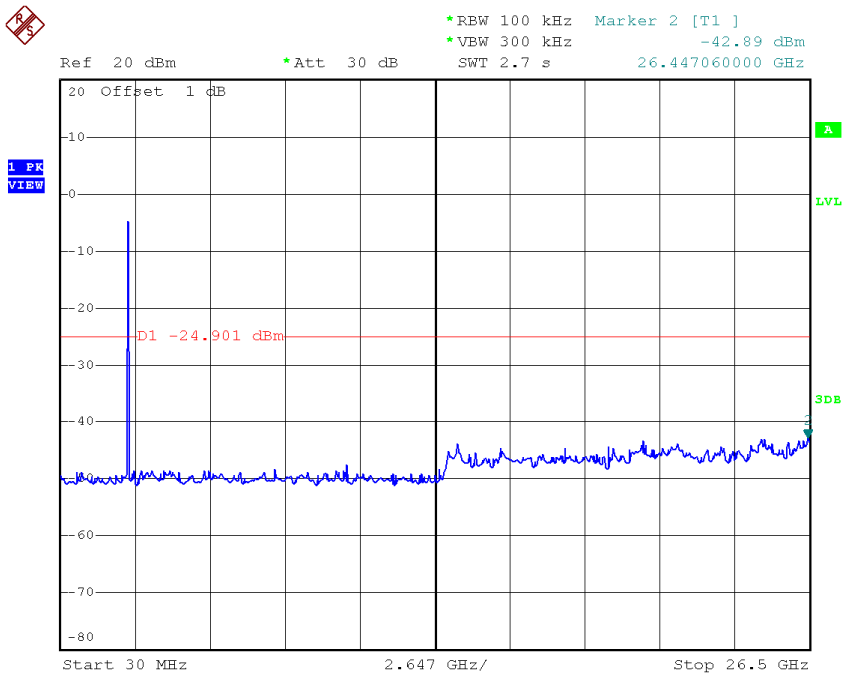
Date: 10.APR.2015 18:26:46

TX G mode CH01 (10 Harmonic of the frequency)



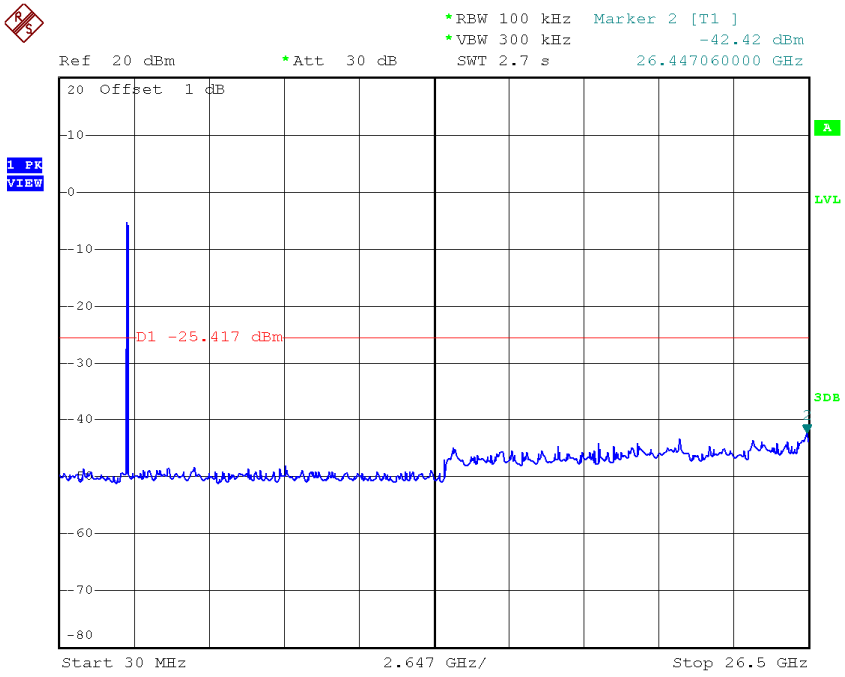
Date: 10.APR.2015 18:23:39

TX G mode CH06 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:25:11

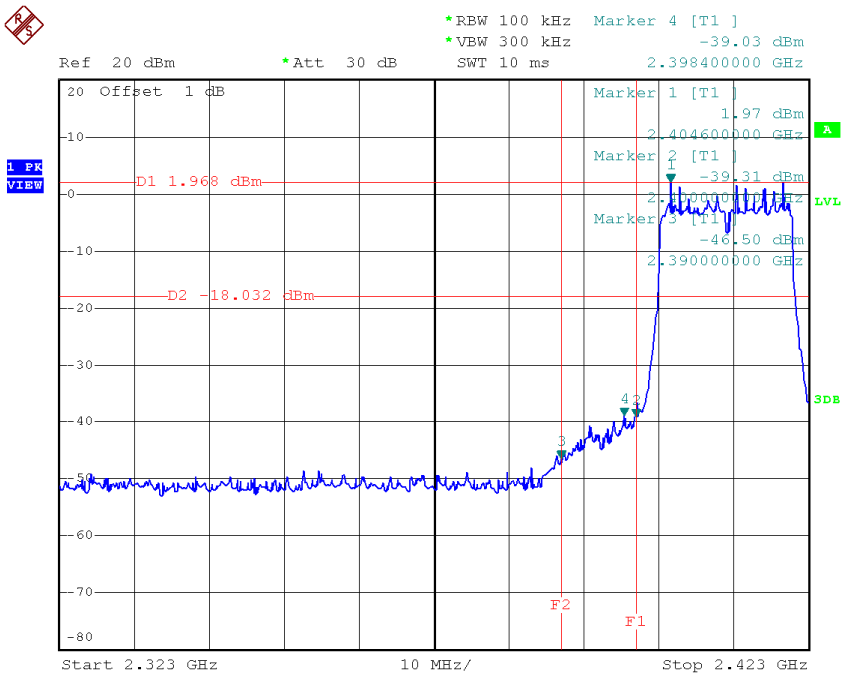
TX G mode CH11 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:26:39

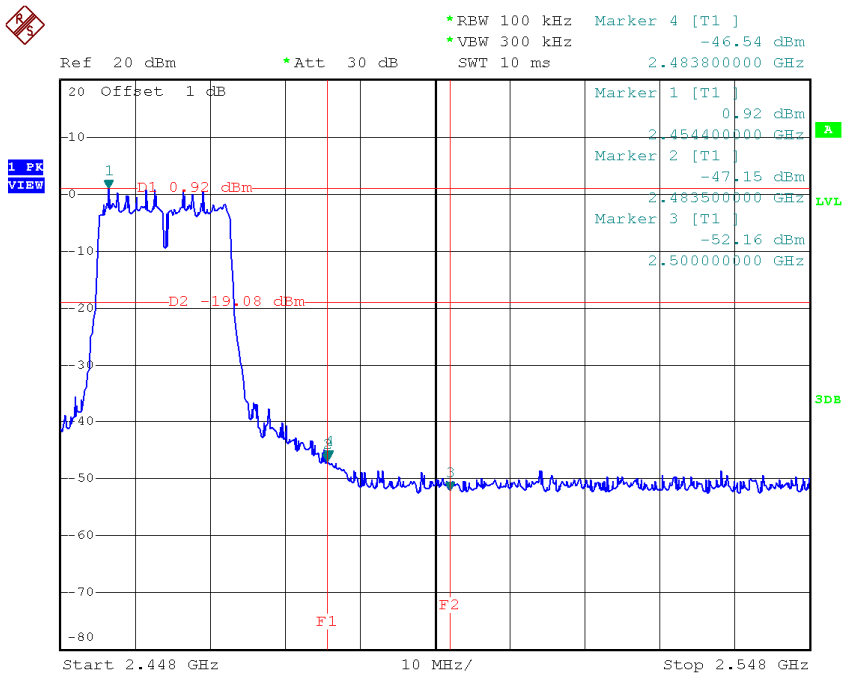
Test Mode :	TX N-20M Mode_ANT 1

TX HT20 mode CH01



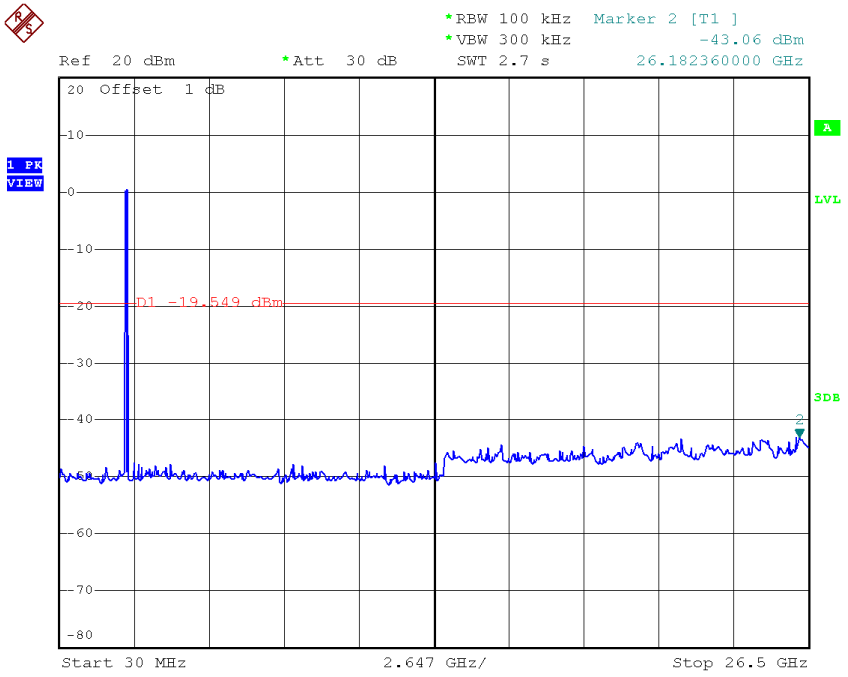
Date: 10.APR.2015 18:04:10

TX HT20 mode CH11



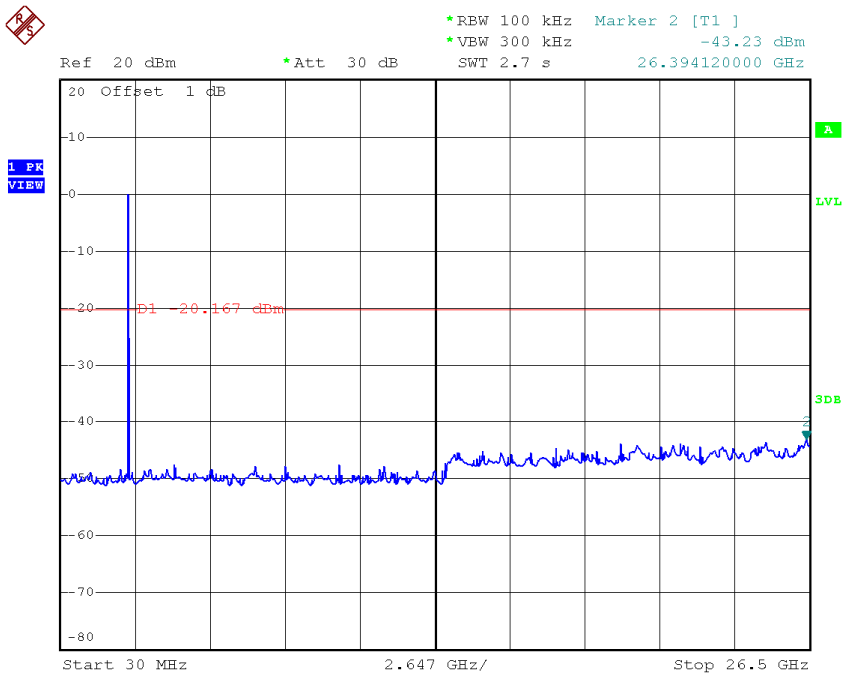
Date: 10.APR.2015 18:07:14

TX HT20 mode CH01 (10 Harmonic of the frequency)



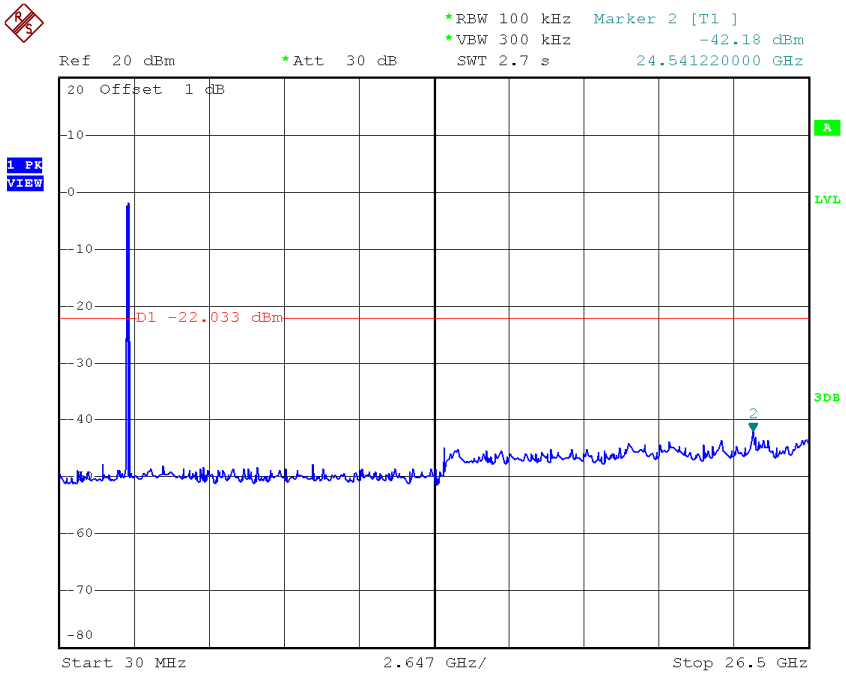
Date: 10.APR.2015 18:04:03

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:05:38

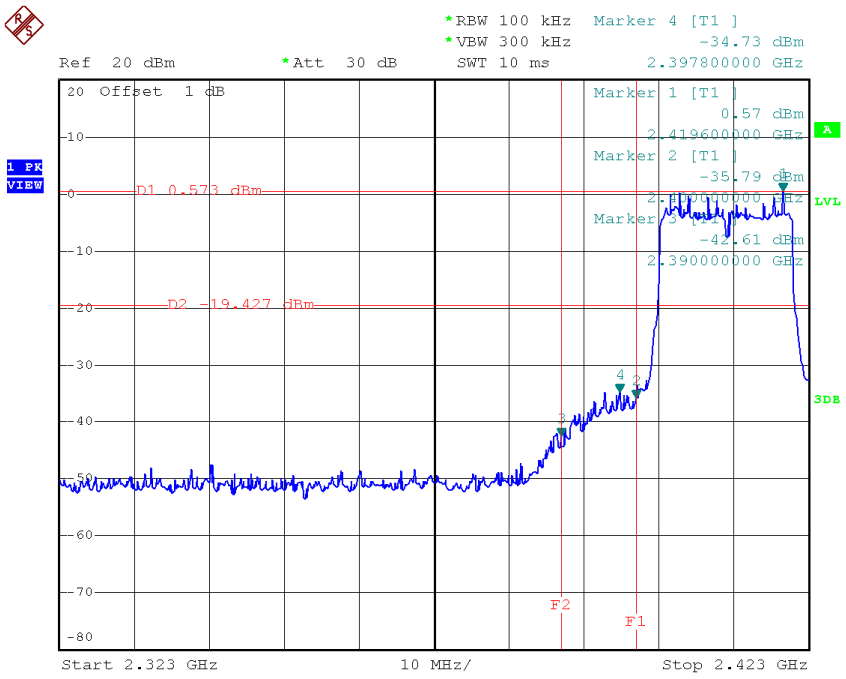
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:07:06

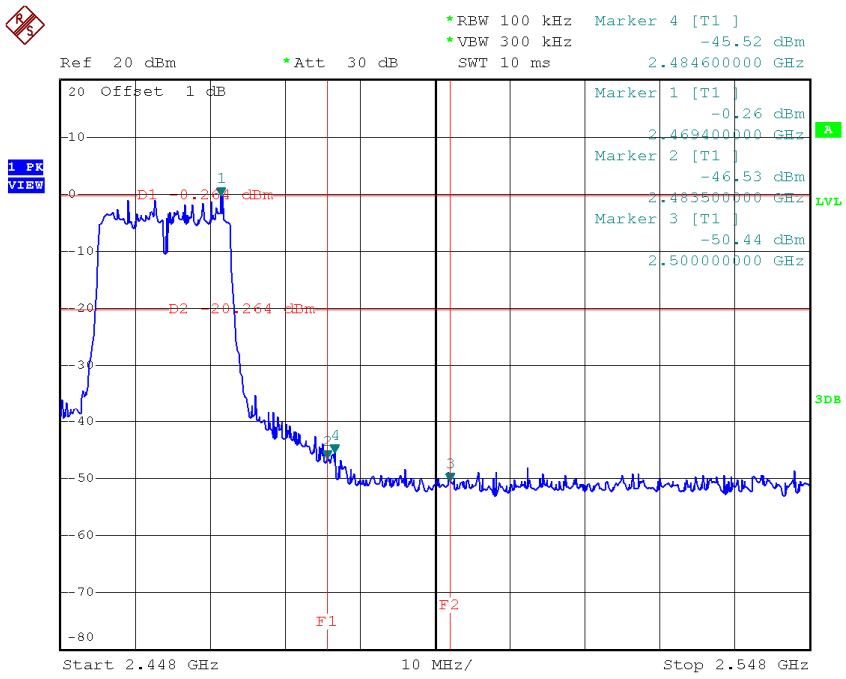
Test Mode :	TX N-20M Mode_ANT 2

TX HT20 mode CH01



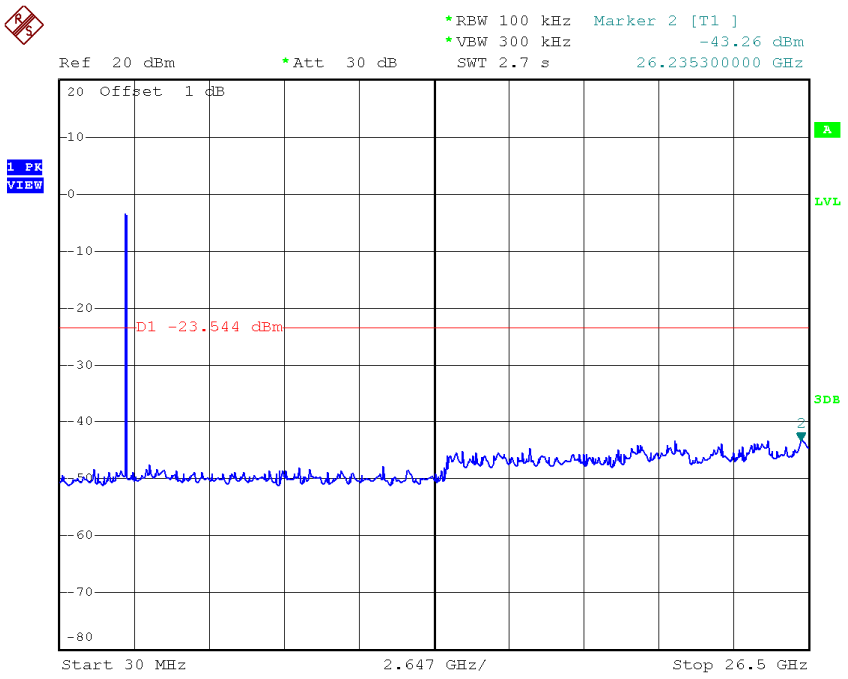
Date: 10.APR.2015 18:28:19

TX HT20 mode CH11



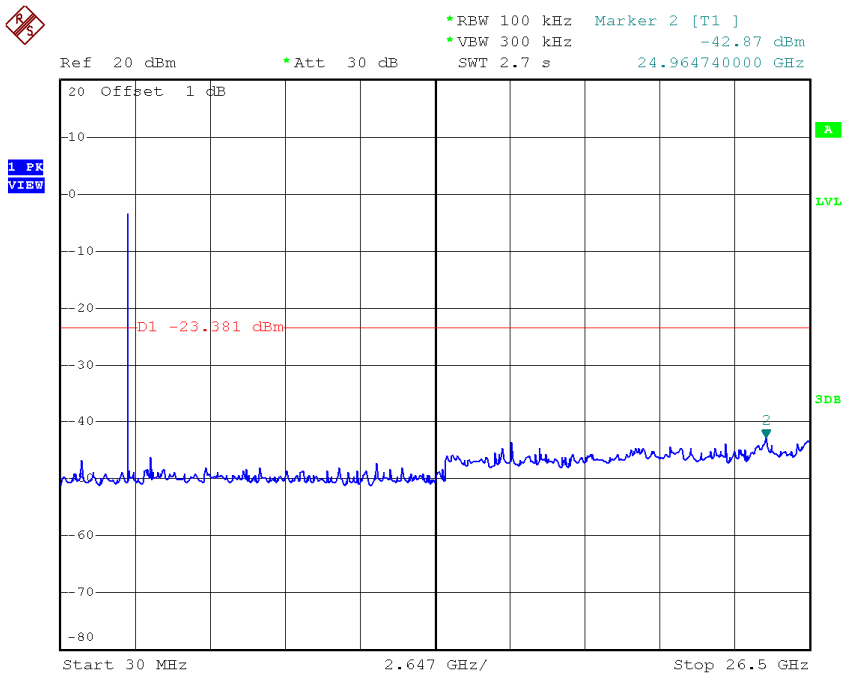
Date: 10.APR.2015 18:52:20

TX HT20 mode CH01 (10 Harmonic of the frequency)



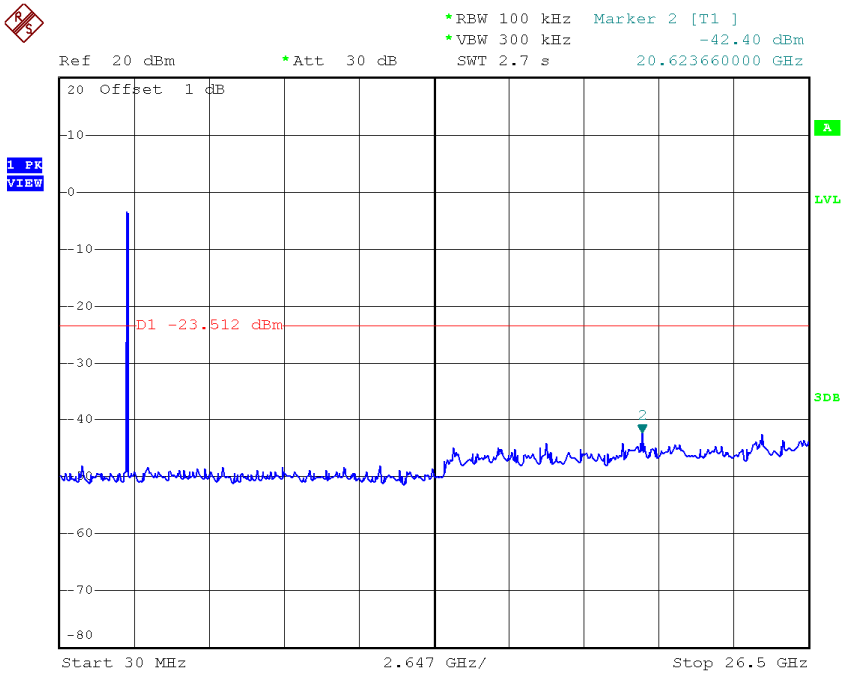
Date: 10.APR.2015 18:28:12

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:50:37

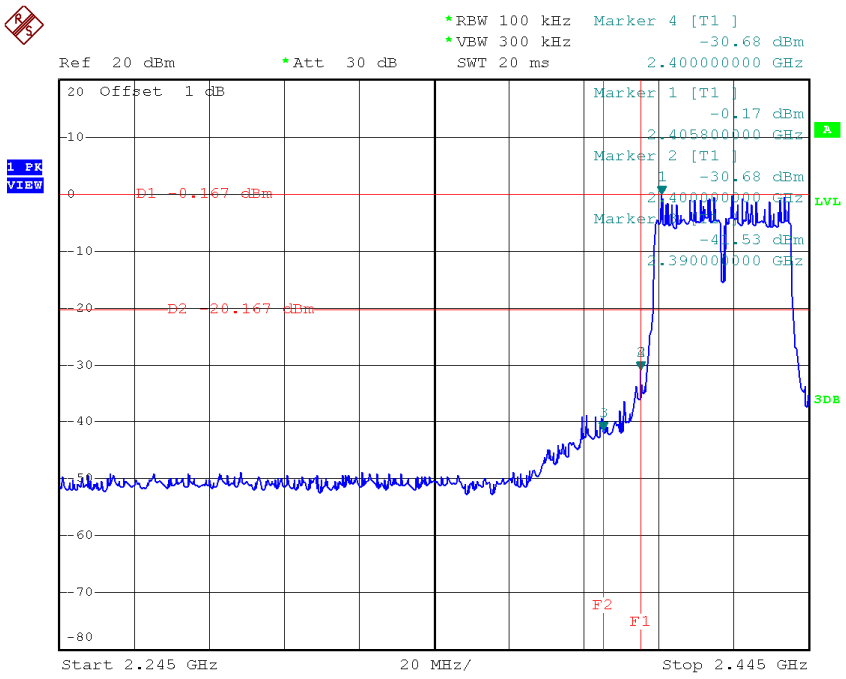
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:52:13

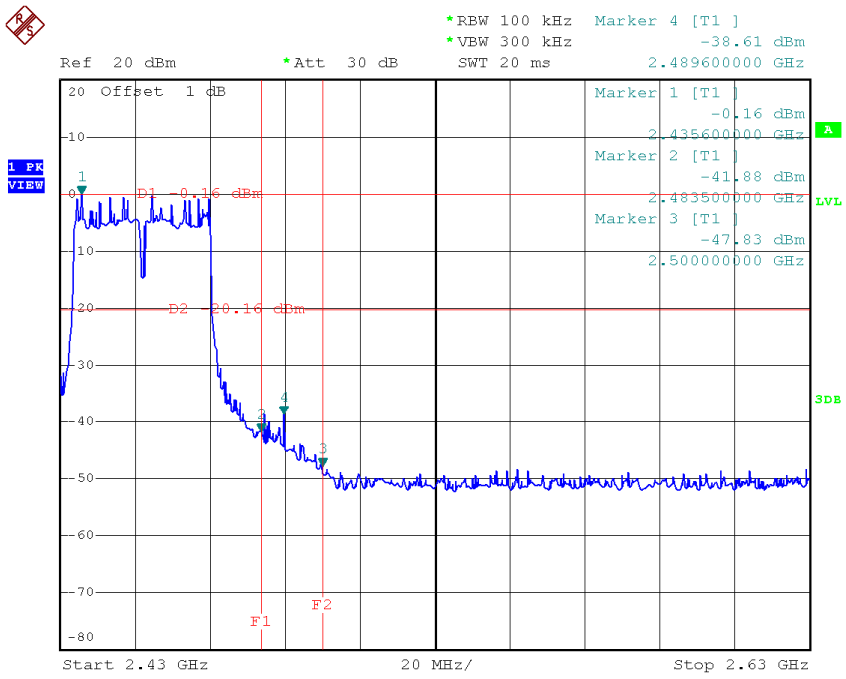
Test Mode :	TX N-40M Mode_ANT 1

TX HT40 mode CH03



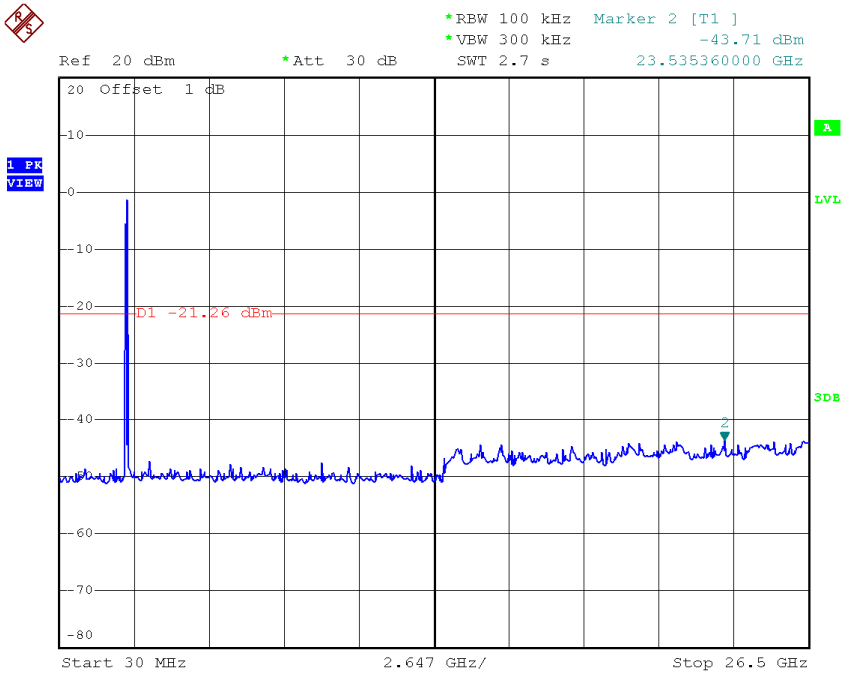
Date: 10.APR.2015 18:09:14

TX HT40 mode CH09



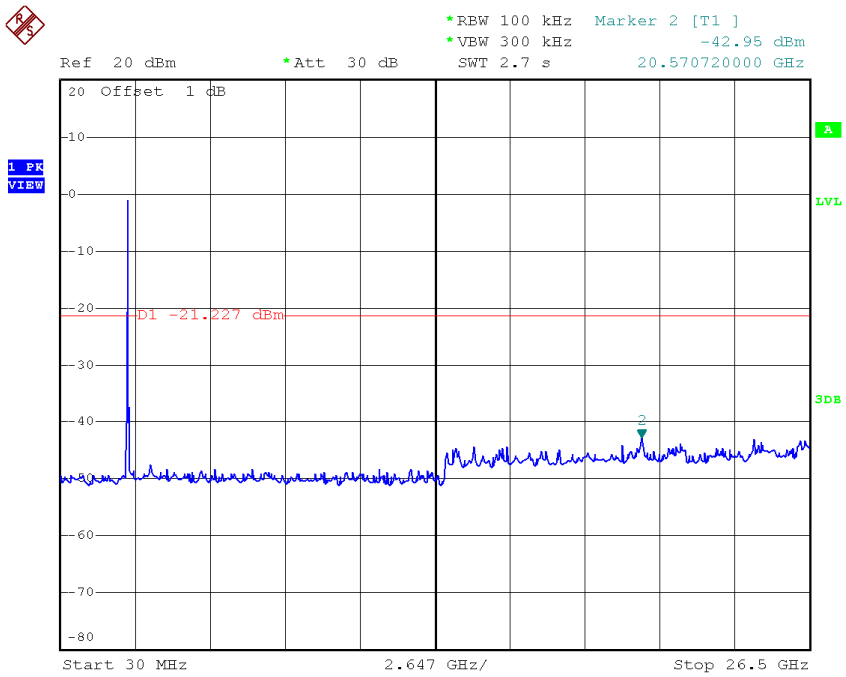
Date: 10.APR.2015 18:12:12

TX HT40 mode CH03 (10 Harmonic of the frequency)



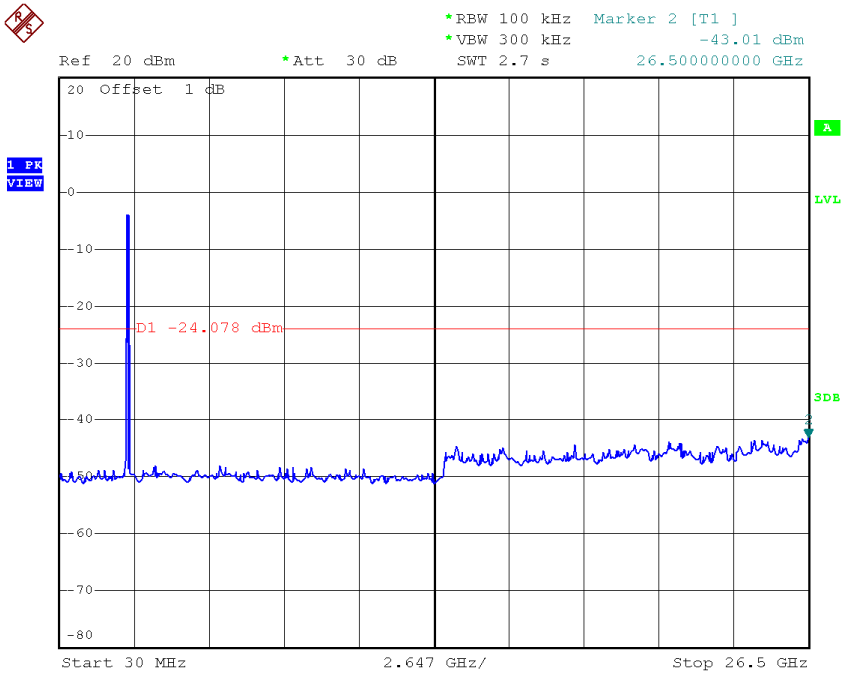
Date: 10.APR.2015 18:09:06

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:10:43

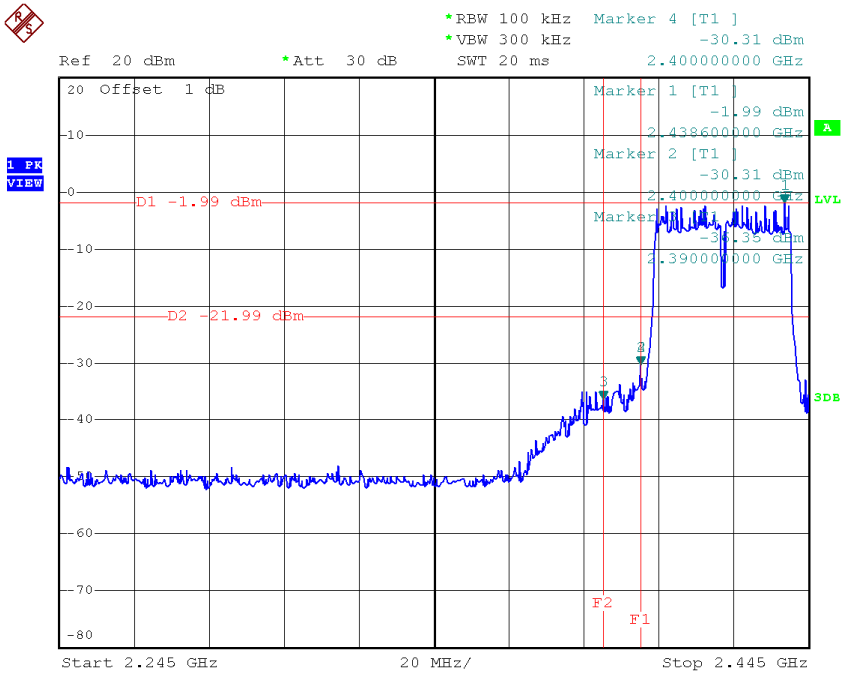
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:12:04

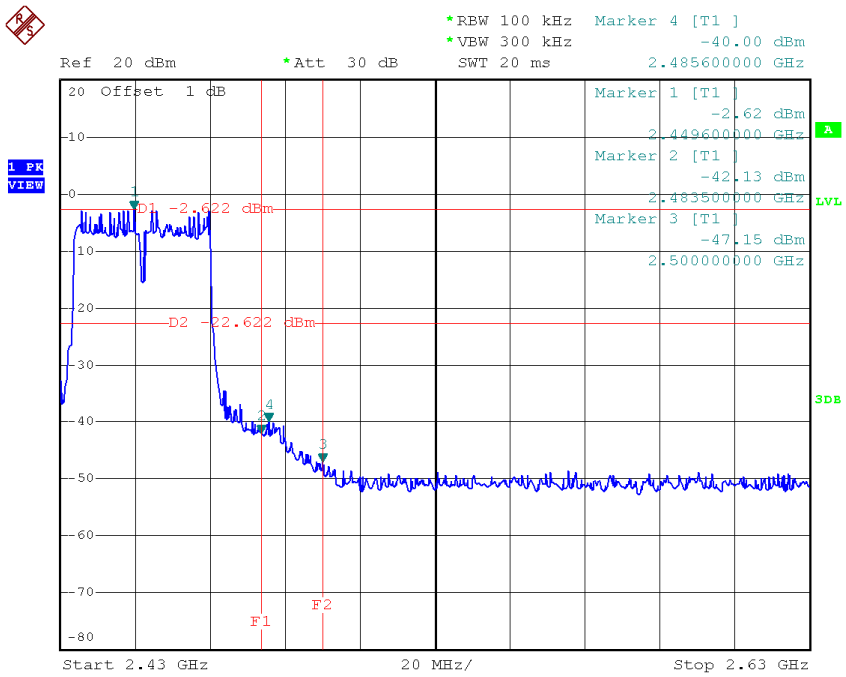
Test Mode :	TX N-40M Mode_ANT 2

TX HT40 mode CH03



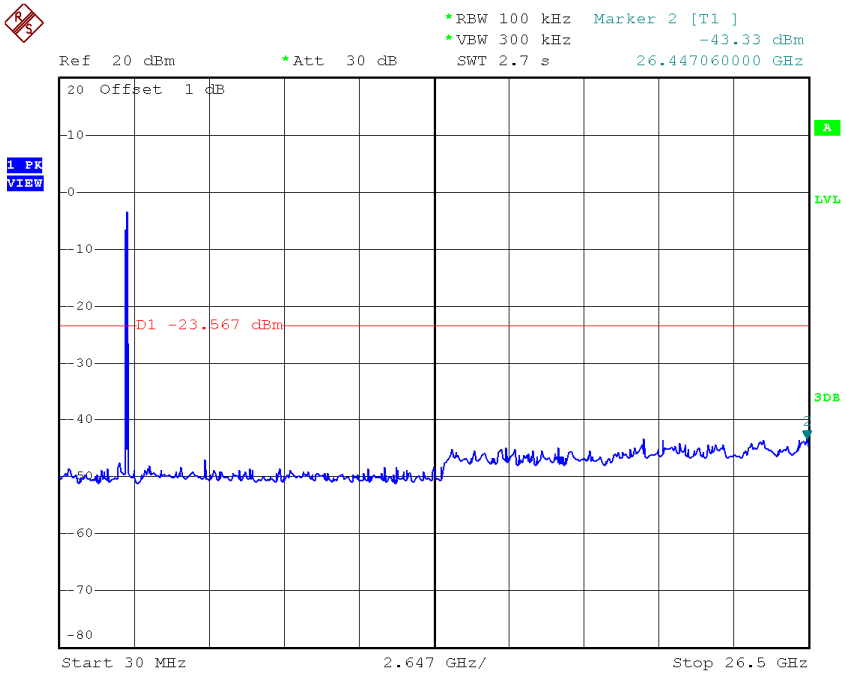
Date: 10.APR.2015 18:54:02

TX HT40 mode CH09



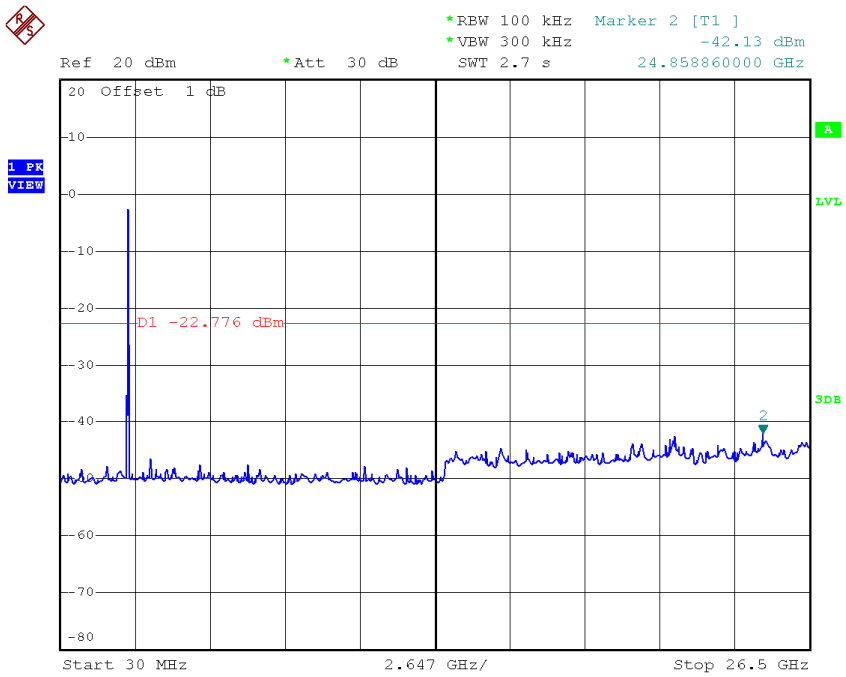
Date: 10.APR.2015 18:57:17

TX HT40 mode CH03 (10 Harmonic of the frequency)



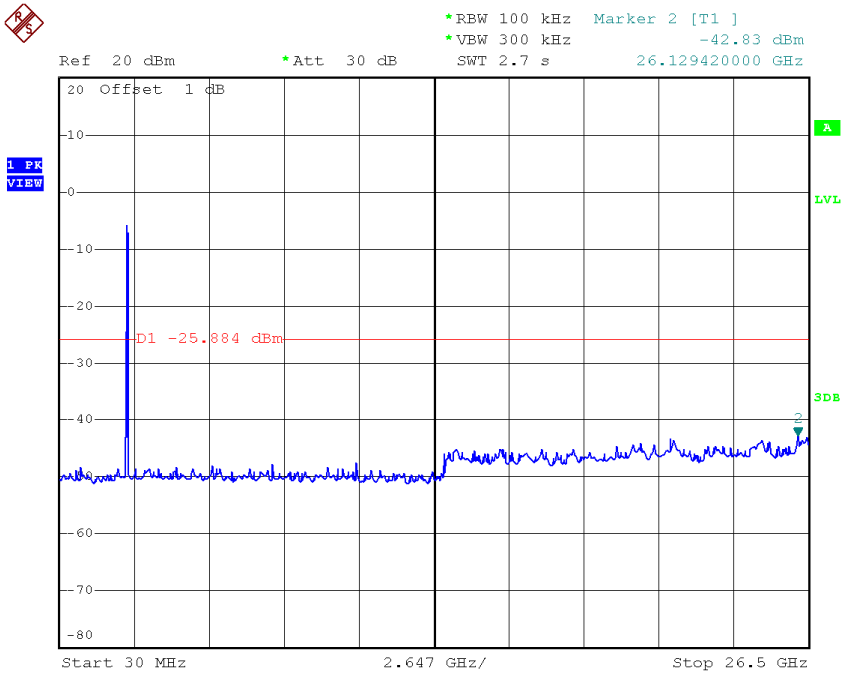
Date: 10.APR.2015 18:53:55

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 10.APR.2015 18:55:29

TX HT40 mode CH09 (10 Harmonic of the frequency)



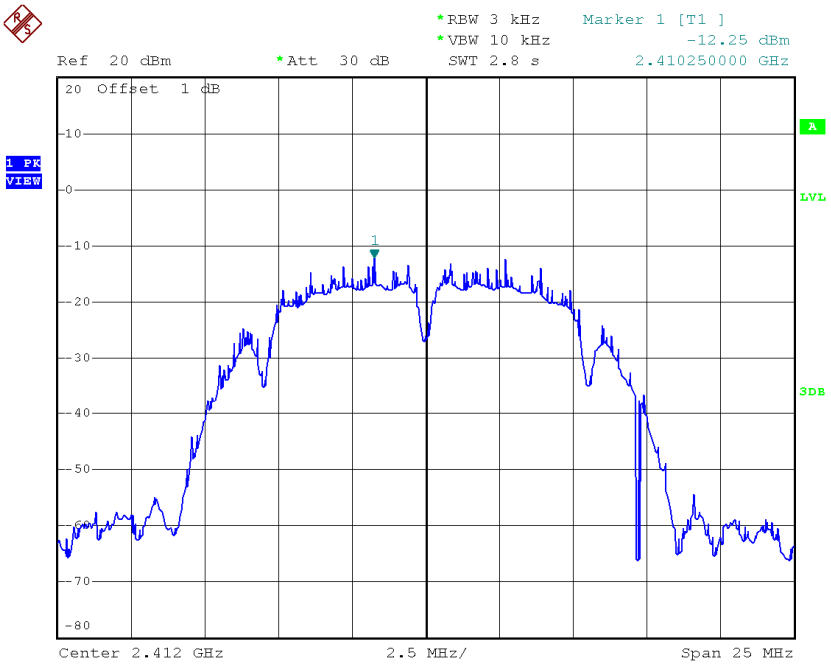
Date: 10.APR.2015 18:57:09

ATTACHMENT H - POWER SPECTRAL DENSITY

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

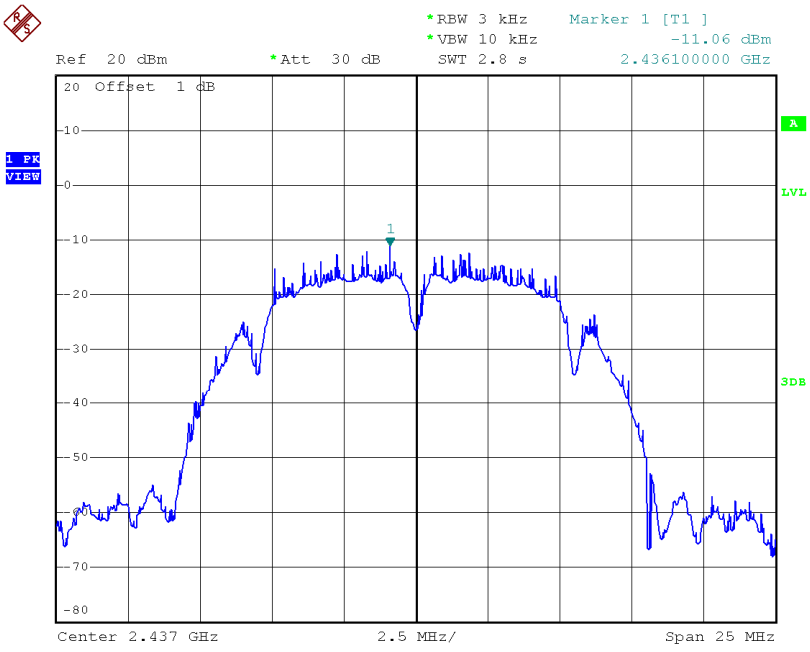
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.25	0.06	8.00	Complies
2437	-11.06	0.08	8.00	Complies
2462	-11.31	0.07	8.00	Complies

TX CH01



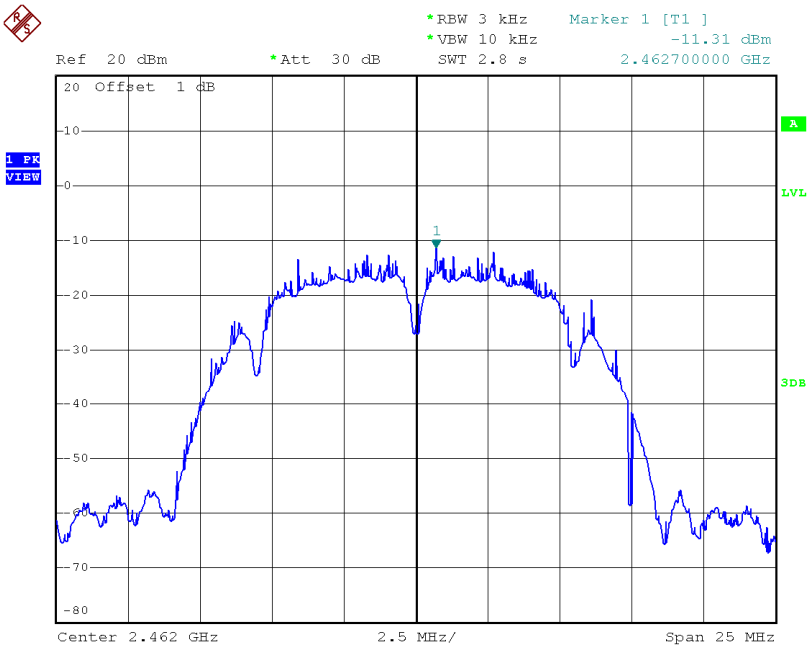
Date: 10.APR.2015 17:49:57

TX CH06



Date: 10.APR.2015 17:52:34

TX CH11

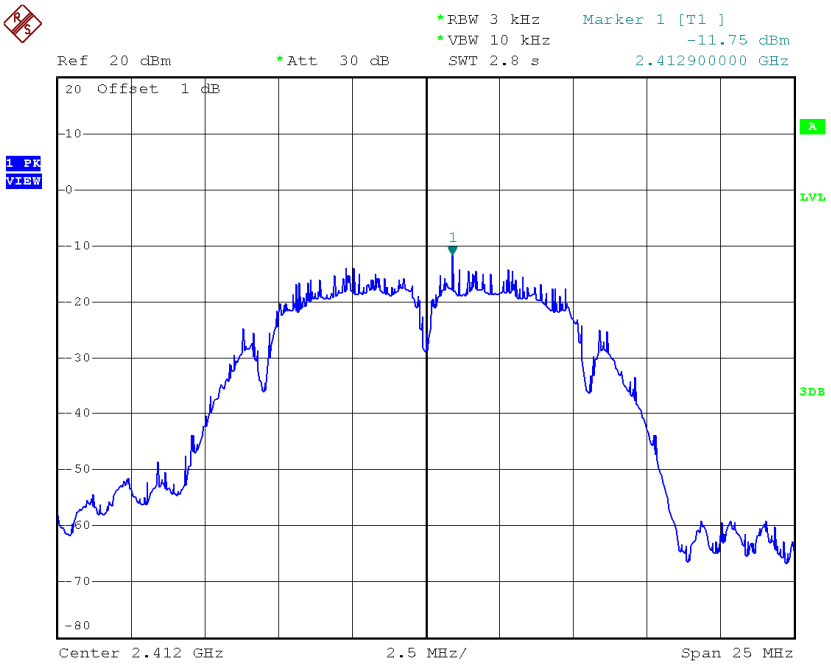


Date: 10.APR.2015 17:56:10

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

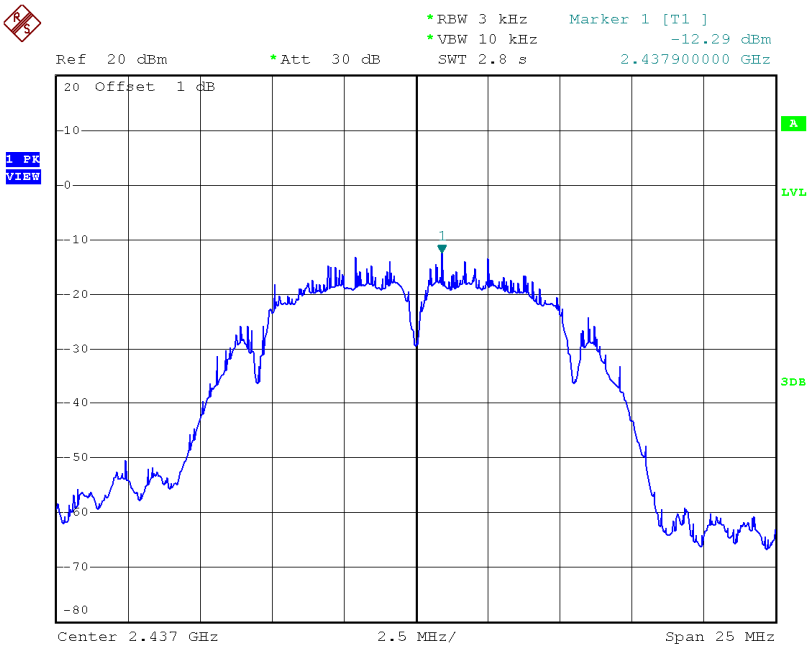
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.75	0.07	8.00	Complies
2437	-12.29	0.06	8.00	Complies
2462	-12.81	0.05	8.00	Complies

TX CH01



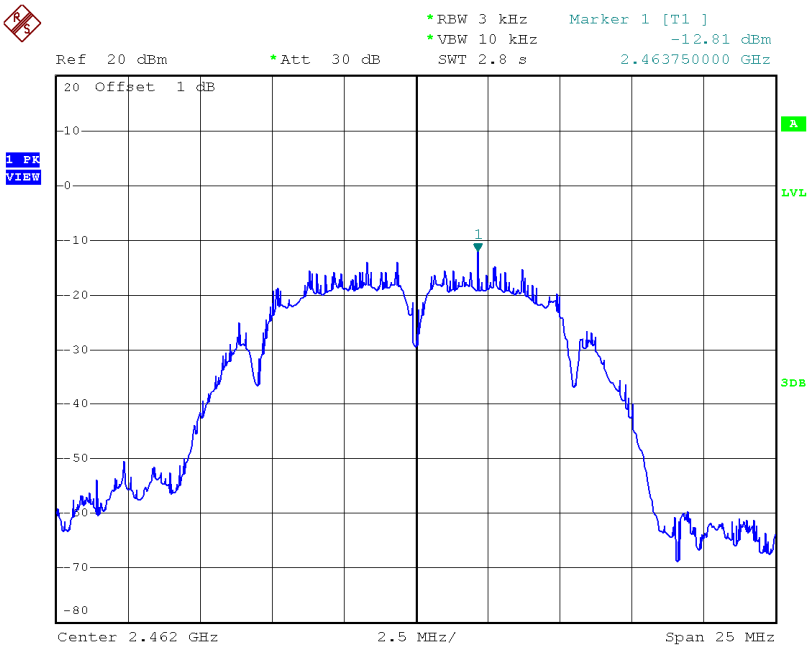
Date: 10.APR.2015 18:18:57

TX CH06



Date: 10.APR.2015 18:20:30

TX CH11



Date: 10.APR.2015 18:22:09

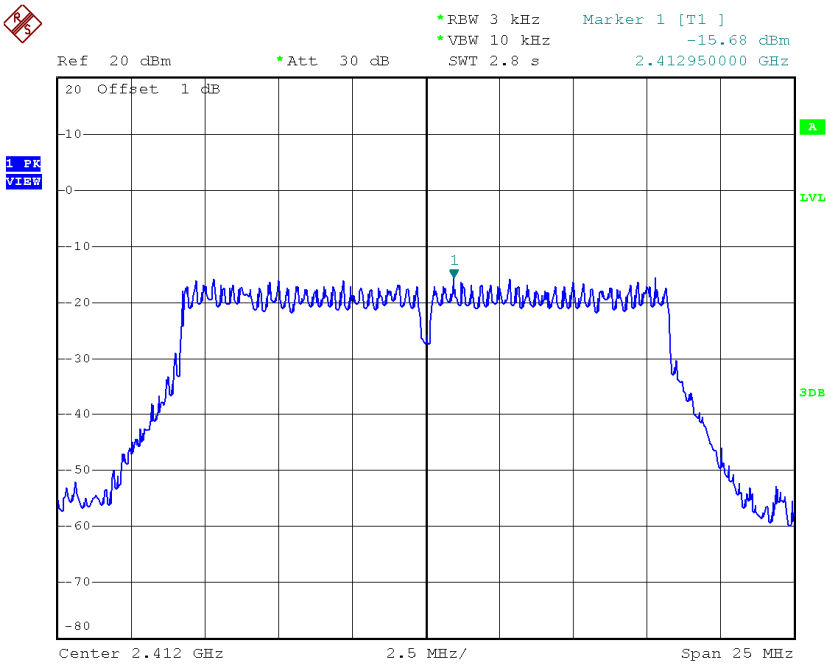
Test Mode :TX B Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.98	0.13	8.00	Complies
2437	-8.62	0.14	8.00	Complies
2462	-8.99	0.13	8.00	Complies

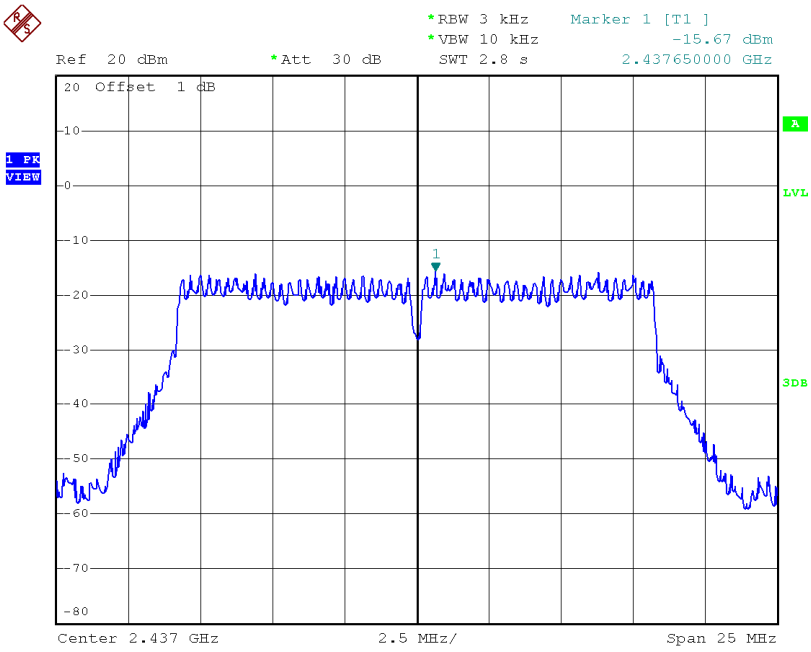
Test Mode :TX G Mode_CH01/06/11_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.68	0.03	8.00	Complies
2437	-15.67	0.03	8.00	Complies
2462	-14.82	0.03	8.00	Complies

TX CH01

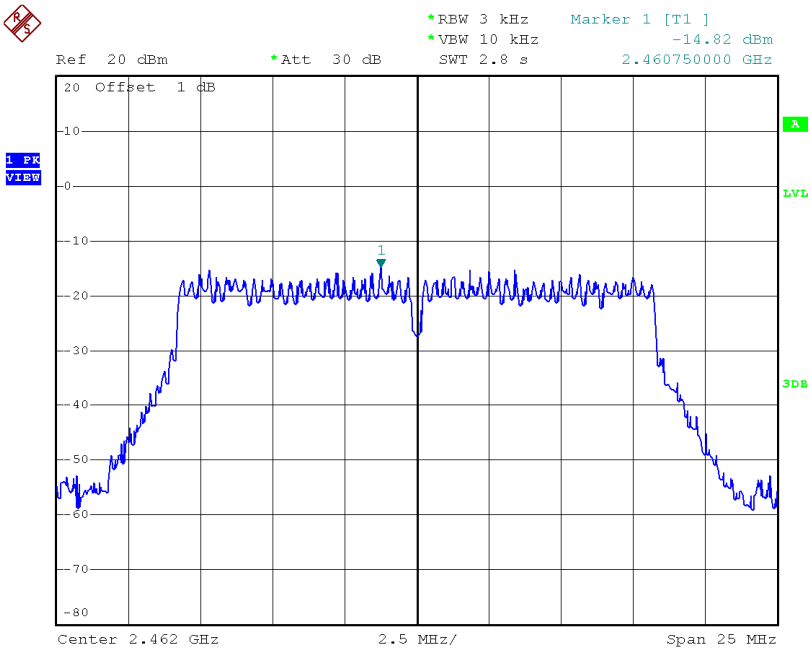


TX CH06



Date: 10.APR.2015 18:00:32

TX CH11

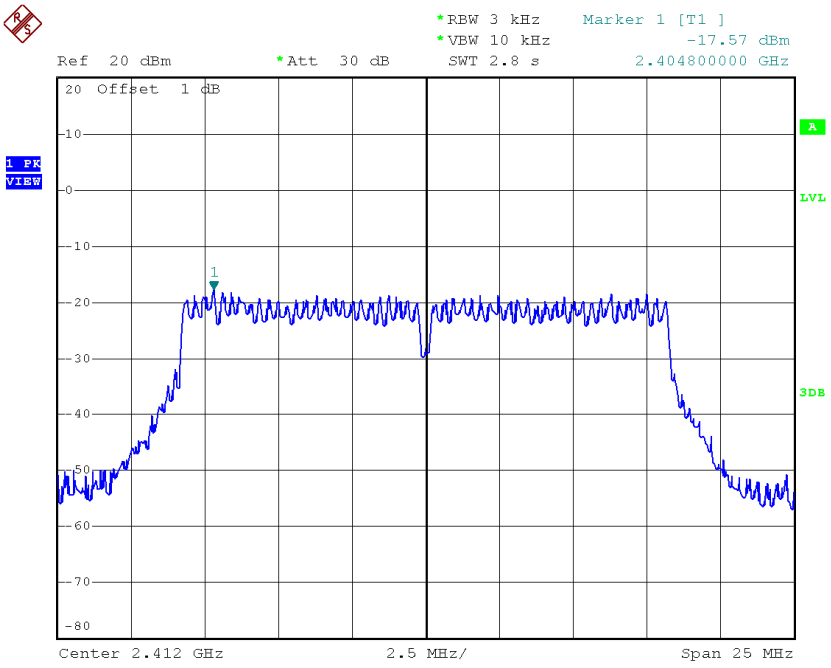


Date: 10.APR.2015 18:02:05

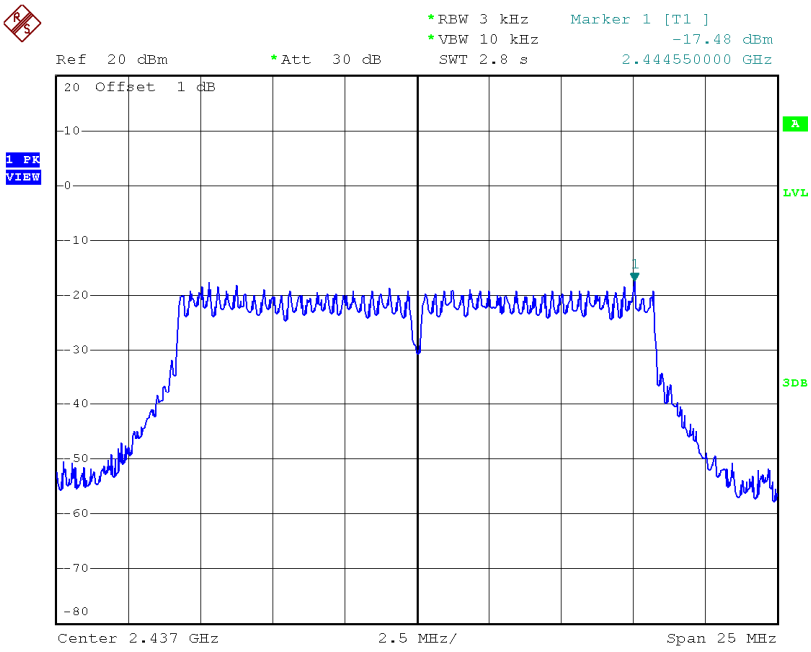
Test Mode :TX G Mode_CH01/06/11_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-17.57	0.02	8.00	Complies
2437	-17.48	0.02	8.00	Complies
2462	-18.30	0.01	8.00	Complies

TX CH01

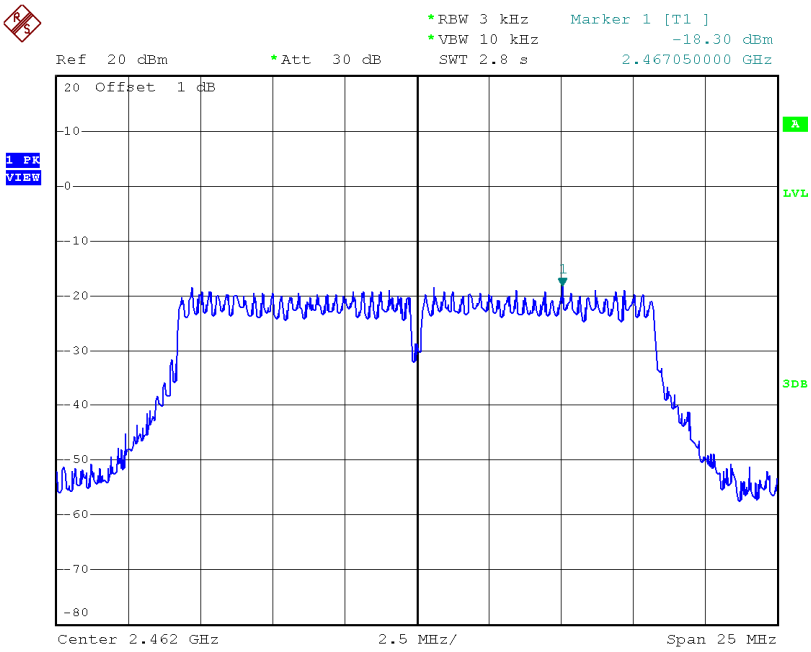


TX CH06



Date: 10.APR.2015 18:25:20

TX CH11



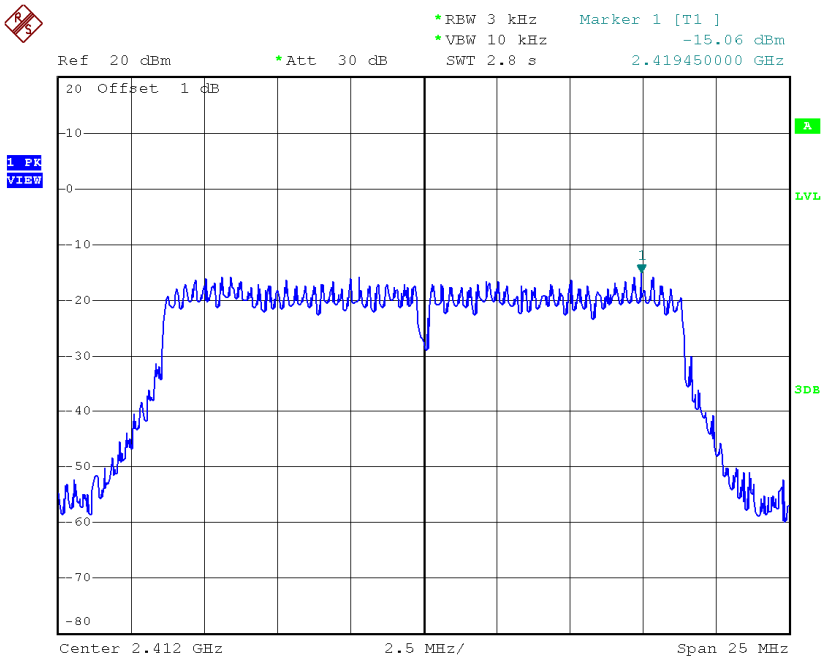
Date: 10.APR.2015 18:26:55

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	-13.51	0.04	8.00	Complies
2437	-13.47	0.04	8.00	Complies
2462	-13.21	0.05	8.00	Complies

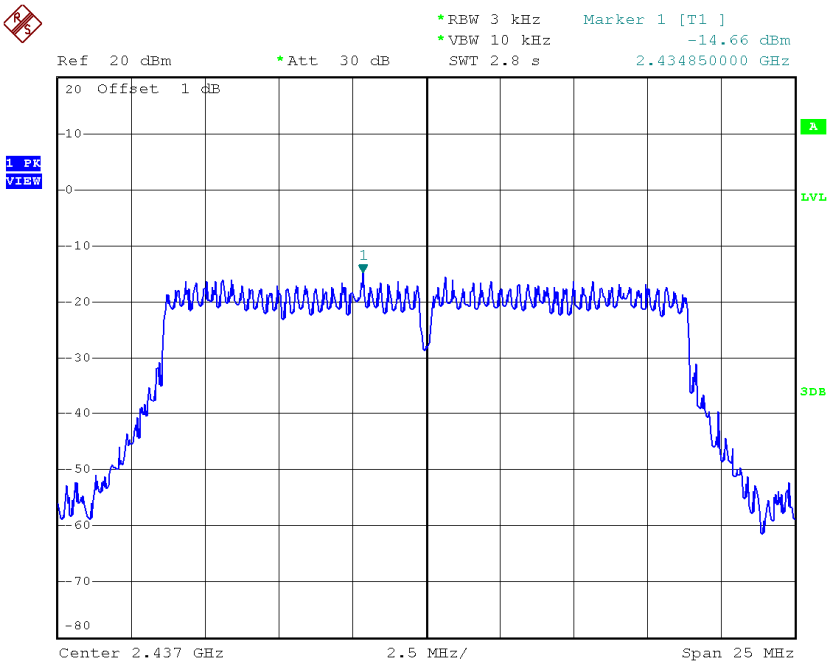
Test Mode : TX N-20M Mode_CH01/06/11_ANT 1				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.06	0.03	8.00	Complies
2437	-14.66	0.03	8.00	Complies
2462	-14.56	0.03	8.00	Complies

TX CH01



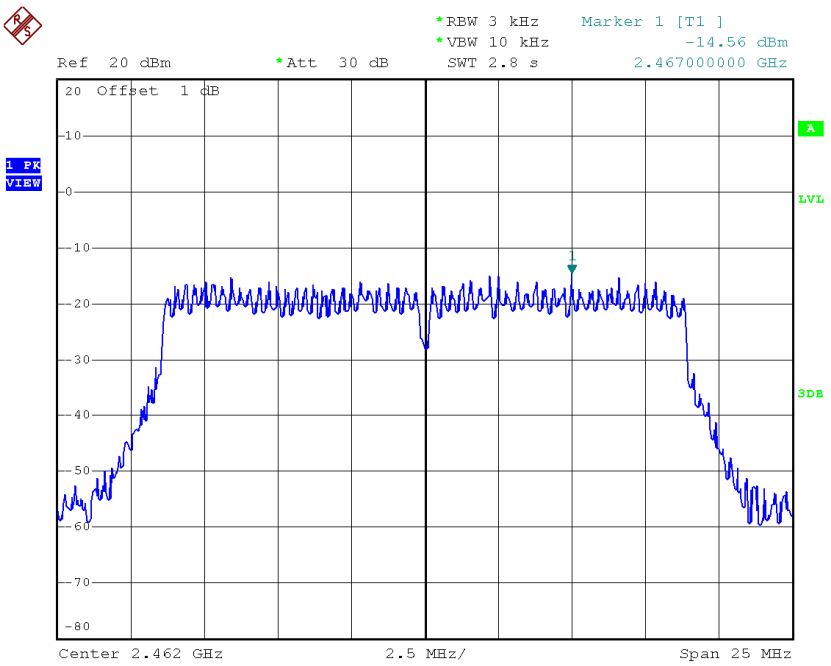
Date: 10.APR.2015 18:04:19

TX CH06



Date: 10.APR.2015 18:05:47

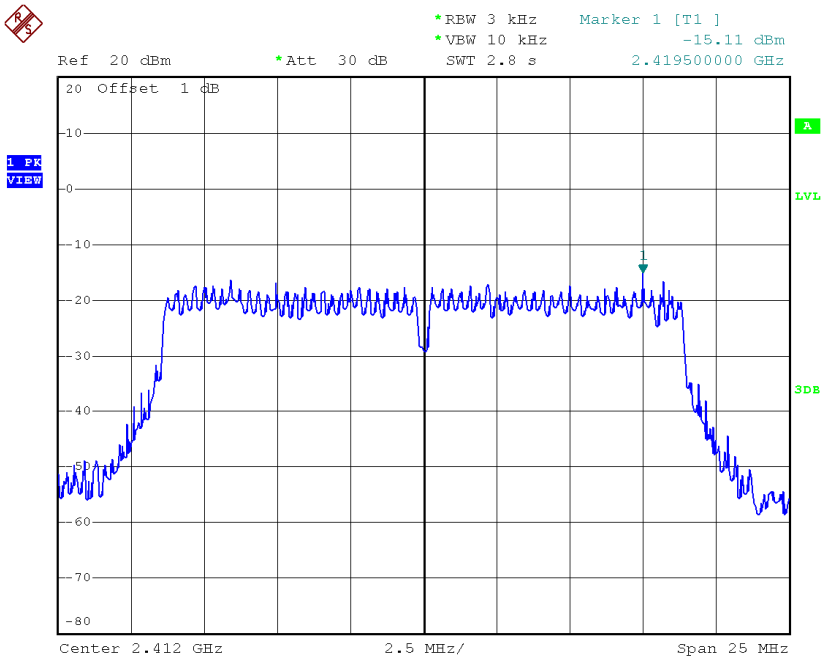
TX CH11



Date: 10.APR.2015 18:07:23

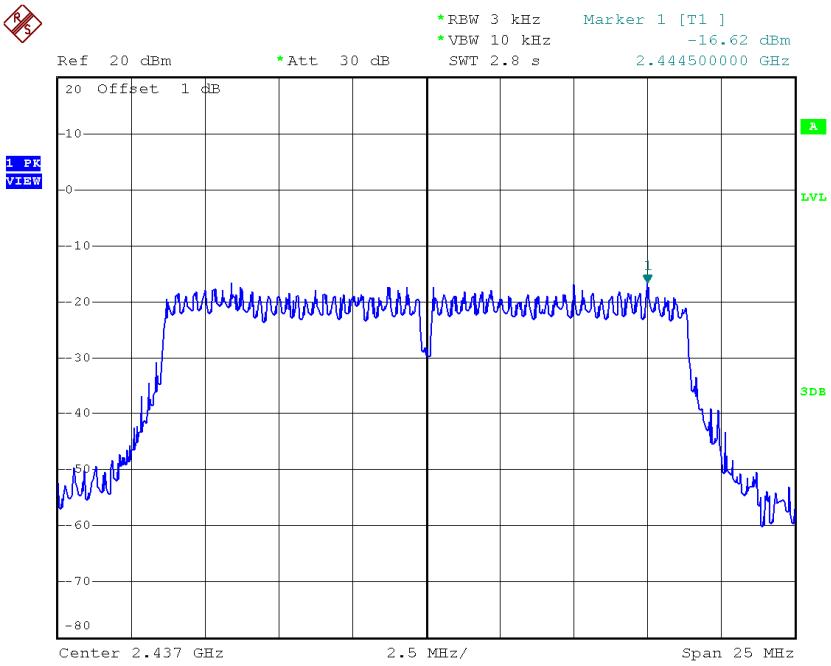
Test Mode : TX N-20M Mode_CH01/06/11_ANT 2				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.11	0.03	8.00	Complies
2437	-16.62	0.02	8.00	Complies
2462	-16.26	0.02	8.00	Complies

TX CH01



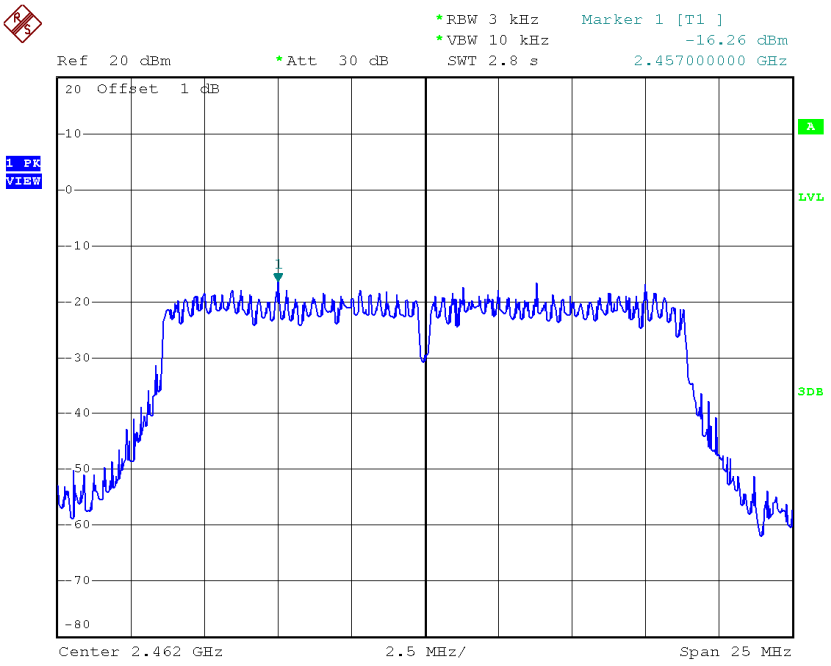
Date: 10.APR.2015 18:28:28

TX CH06



Date: 10.APR.2015 18:50:46

TX CH11



Date: 10.APR.2015 18:52:29

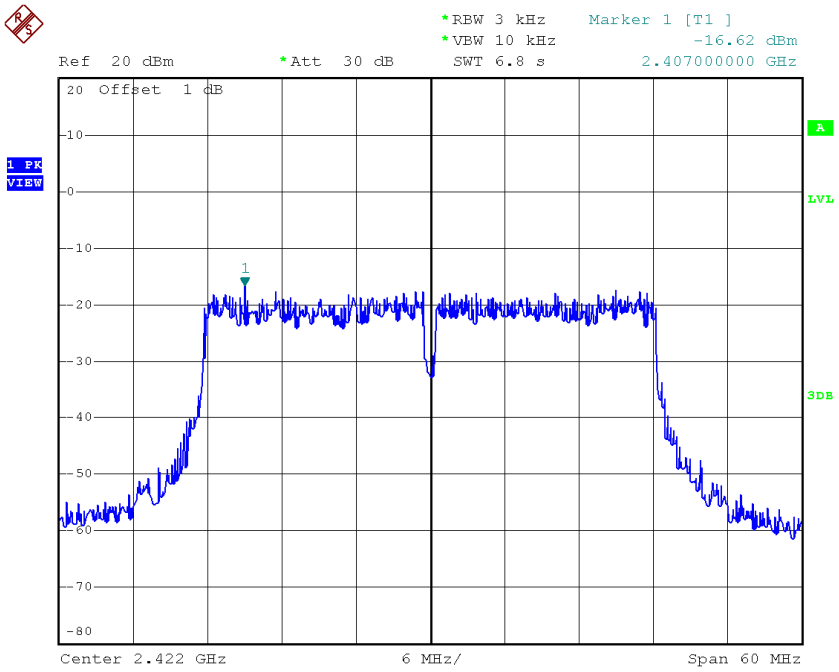
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.07	0.06	8.00	Complies
2437	-12.52	0.06	8.00	Complies
2462	-12.32	0.06	8.00	Complies

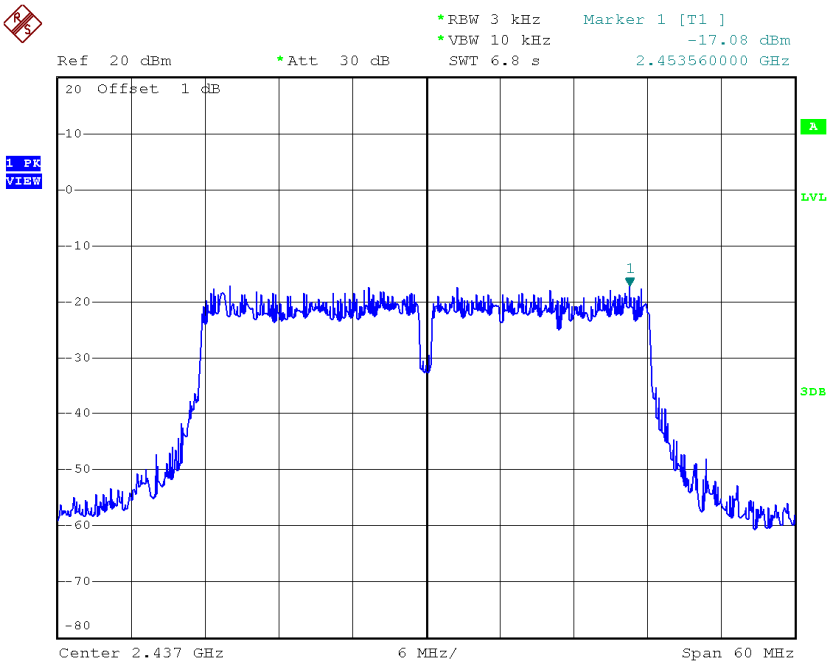
Test Mode : TX N-40M Mode_CH03/06/09_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.62	0.02	8.00	Complies
2437	-17.08	0.02	8.00	Complies
2452	-17.10	0.02	8.00	Complies

TX CH03

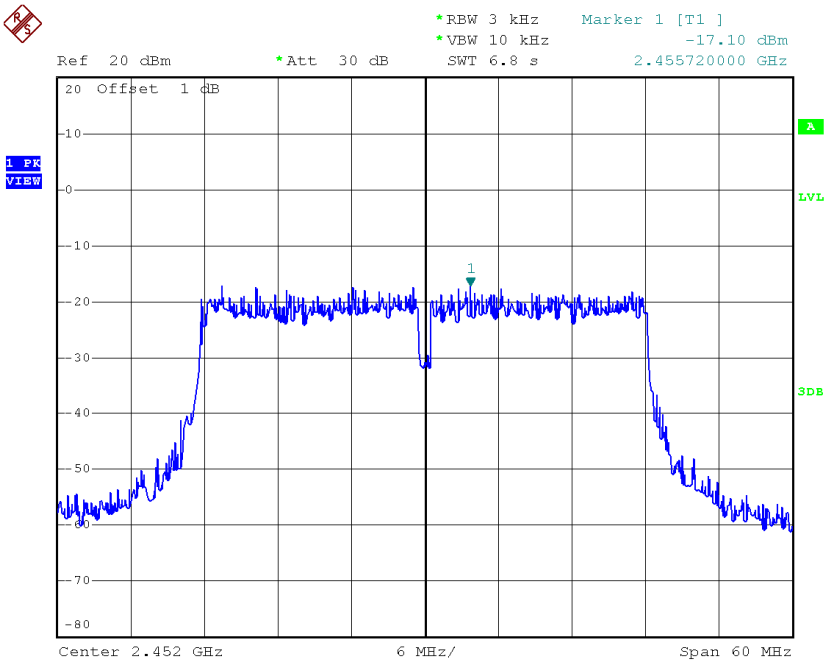


TX CH06



Date: 10.APR.2015 18:10:55

TX CH09

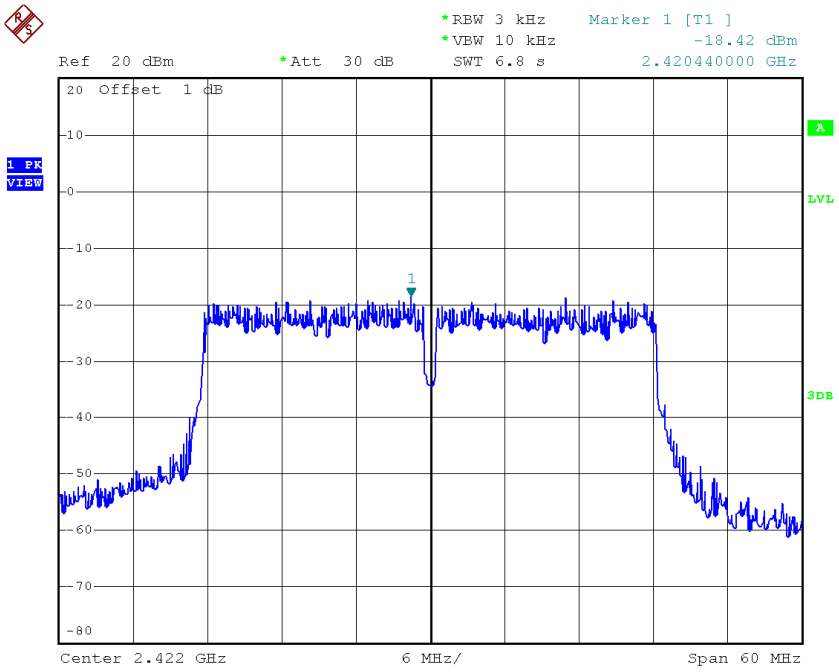


Date: 10.APR.2015 18:12:24

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

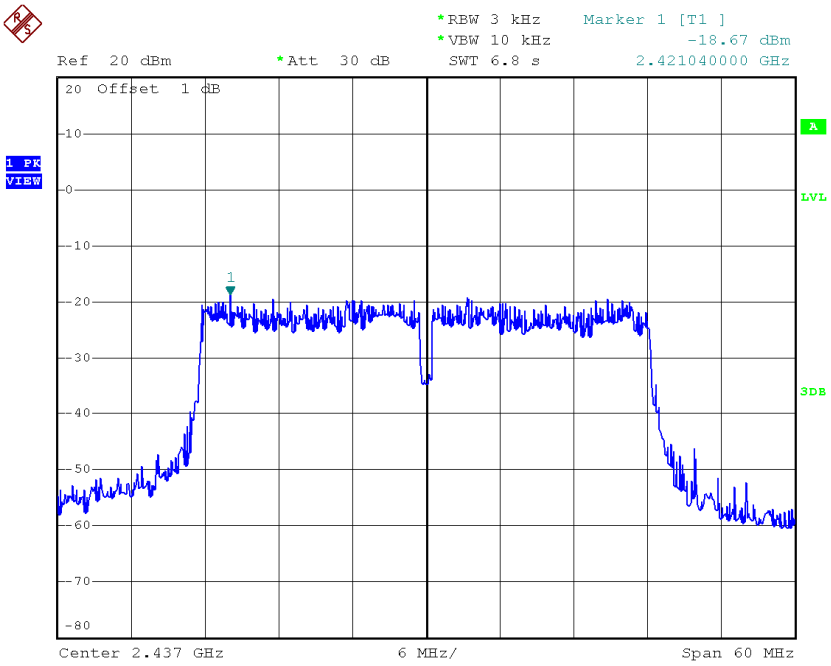
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.42	0.01	8.00	Complies
2437	-18.67	0.01	8.00	Complies
2452	-19.25	0.01	8.00	Complies

TX CH03



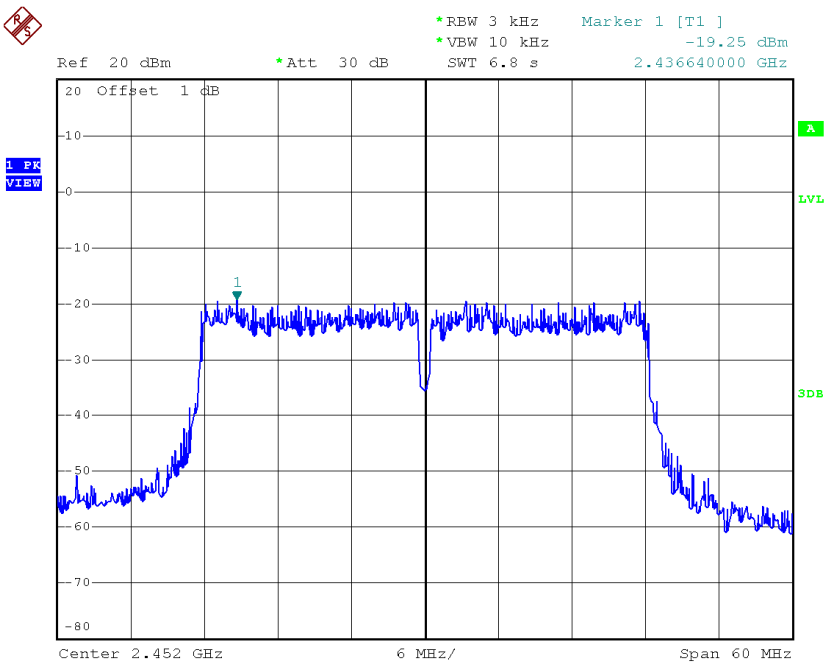
Date: 10.APR.2015 18:54:14

TX CH06



Date: 10.APR.2015 18:55:41

TX CH09



Date: 10.APR.2015 18:57:28

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	-14.42	0.04	8.00	Complies
2437	-14.79	0.03	8.00	Complies
2452	-15.03	0.03	8.00	Complies