FCC Radio Test Report

FCC ID: V7TW311MI2

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

Project No.	:	1511C015
Equipment	:	150M Mini Wireless USB Adapter
Model Name	:	W311MI
Applicant	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address	:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Date of Receipt	:	Nov. 03, 2015
Date of Test	:	Nov. 03, 2015 ~ Nov. 18, 2015
Issued Date	:	Nov. 19, 2015
Tested by	:	BTL Inc.

Testing Engineer : Shawn xiao
(Shawn Xiao)

Technical Manager : David Mao
(David Mao)

Authorized Signatory : Steven Lu
(Steven Lu)

BTL INC.

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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.**

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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.

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1511C015	Original Issue.	Nov. 19, 2015

1. CERTIFICATION

Equipment	:	150M Mini Wireless USB Adapter
Brand Name	:	Tenda
Model Name	:	W311MI
Applicant	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD
Manufacturer	:	SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address	:	6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Date of Test	:	Nov. 03, 2015 ~ Nov. 18, 2015
Test Sample	:	Engineering Sample
Standard(s)	:	FCC Part15, Subpart C: 2014 (15.247) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-1-1511C015) 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	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.

2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06
		1GHz ~ 18GHz	V	3.12
		1GHz ~ 18GHz	H	3.68
		18GHz ~ 40GHz	V	4.15
		18GHz ~ 40GHz	H	4.14

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	150M Mini Wireless USB Adapter	
Brand Name	Tenda	
Model Name	W311MI	
Model Difference	NA	
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 150 Mbps
	AVG Output Power (Max.)	802.11b: 9.61dBm 802.11g: 9.57dBm 802.11n(20MHz): 9.54dBm 802.11n(40MHz): 9.71dBm
Power Source	Supplied from host system.	
Power Rating	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 – CH11 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	N/A	N/A	Internal	N/A	1.0	TX/RX

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

Note:

(1) The measurements are performed at the high, middle, low available channels.

(2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (6.5Mbps)
802.11n HT40 mode : BPSK (13.5Mbps)
For radiated emission tests, the highest output powers were set for final test.

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

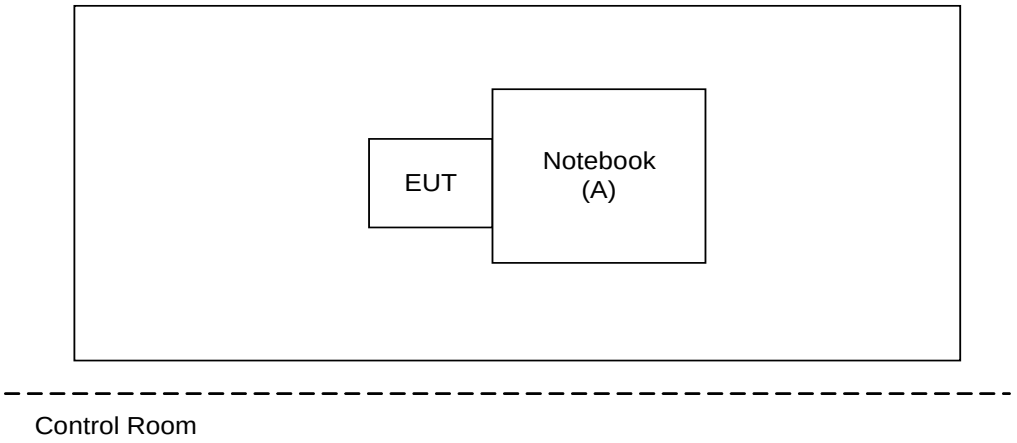
(4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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	MT7601USB		
Frequency (MHz)	2412	2437	2462
802.11b	0C	0C	0C
802.11g	0C	0C	0C
802.11n (20MHz)	0F	0F	0F
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	10	10	11

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.
A	Notebook	Lenevo	G410AT	DOC	N/A

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

Note:

(1) For detachable type I/O cable should be specified the length in m in 『Length』 column.

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 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

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

The following table is the setting of the receiver

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

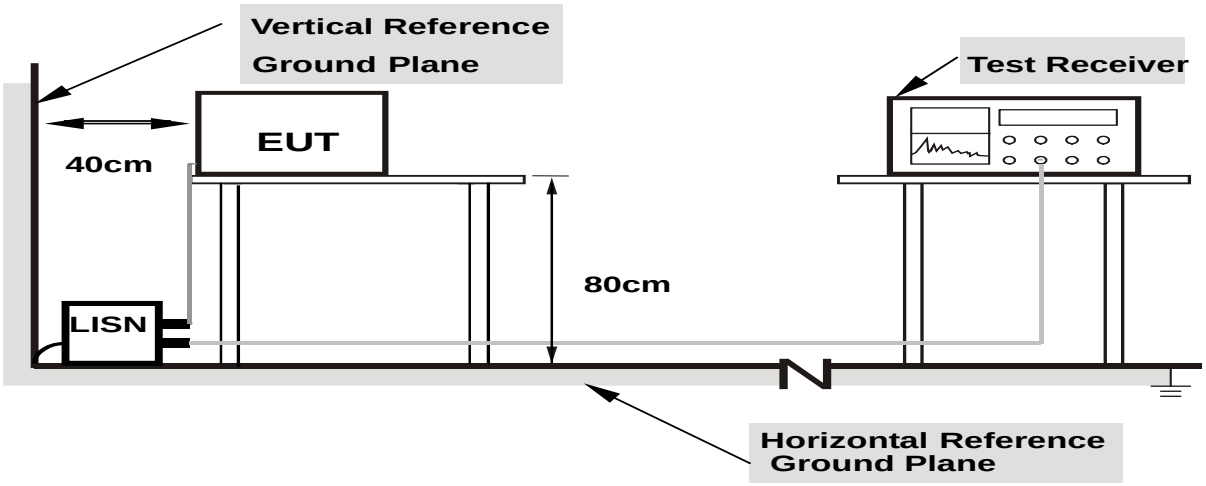
4.1.2 TEST PROCEDURE

a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

The EUT was placed on the test table and programmed in normal function.

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

(4) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

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

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

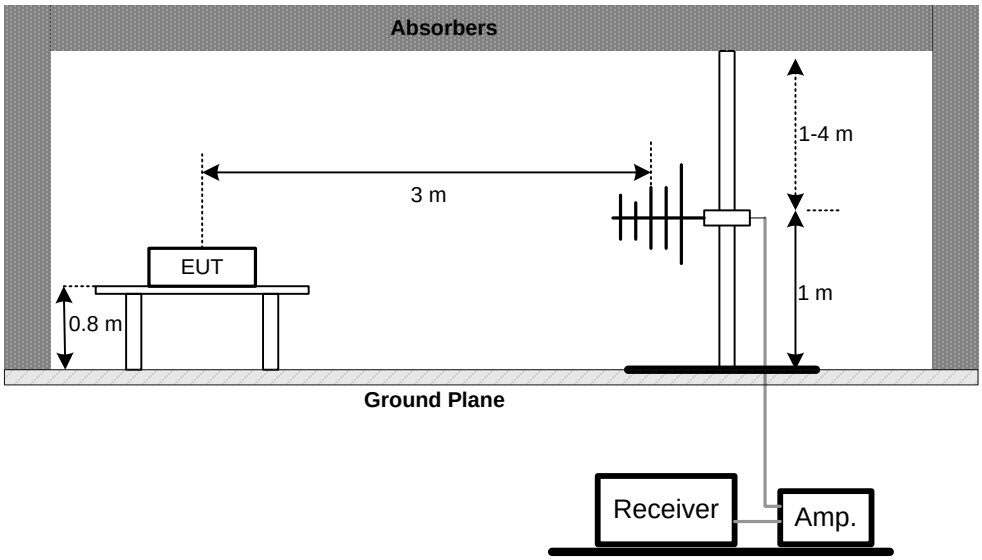
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn‘t perform. (below 1GHz)
f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn‘t perform. (above 1GHz)
g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

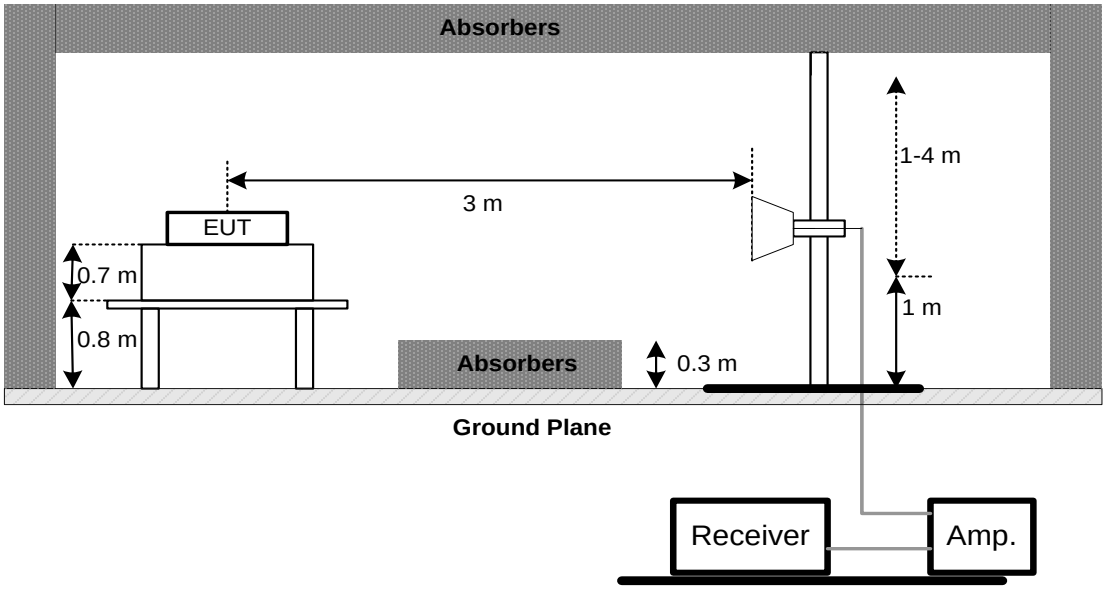
No deviation

4.2.4 TEST SETUP

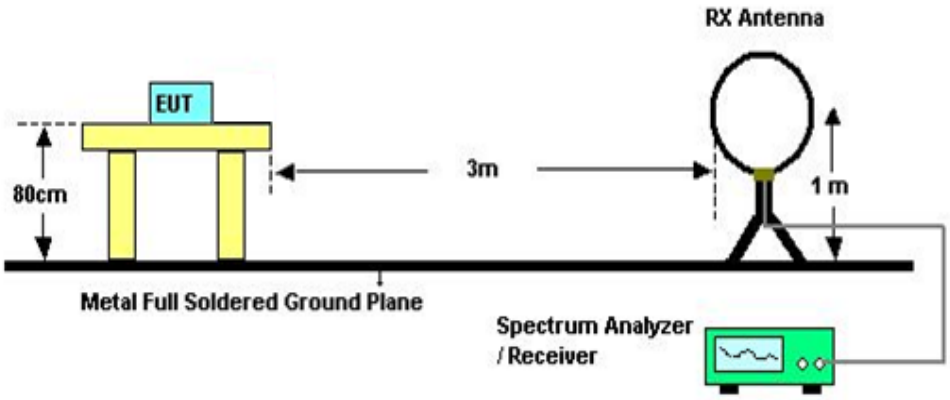
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 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 (specific distance / test distance) (dB).
(3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (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

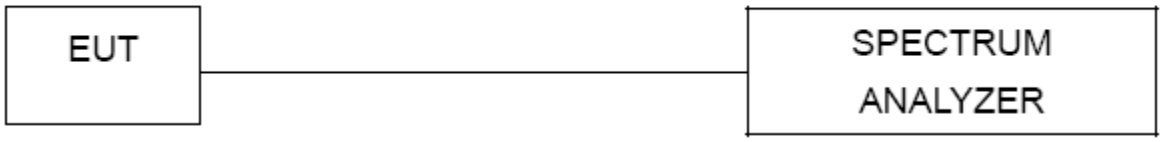
5.1.1 TEST PROCEDURE

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 was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

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

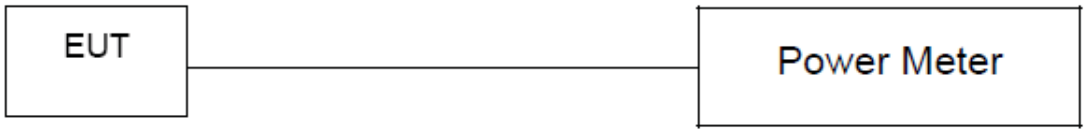
6.1.1 TEST PROCEDURE

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 v03r03.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 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 device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

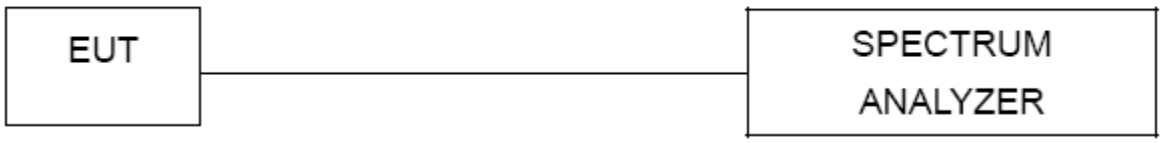
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 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 was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	699837	0052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	emci	RG223(9KHz -30MHz)	C_17	Mar. 13, 2016
4	EMI Test Receiver	R&S	ESCS30	826547/022	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122901	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. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
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. 01, 2016
9	Test Cable	emci	EMC104-SM-SM-10000(1GHz－26.5GHz)	C-68	Jun. 28, 2016
10	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016

6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

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

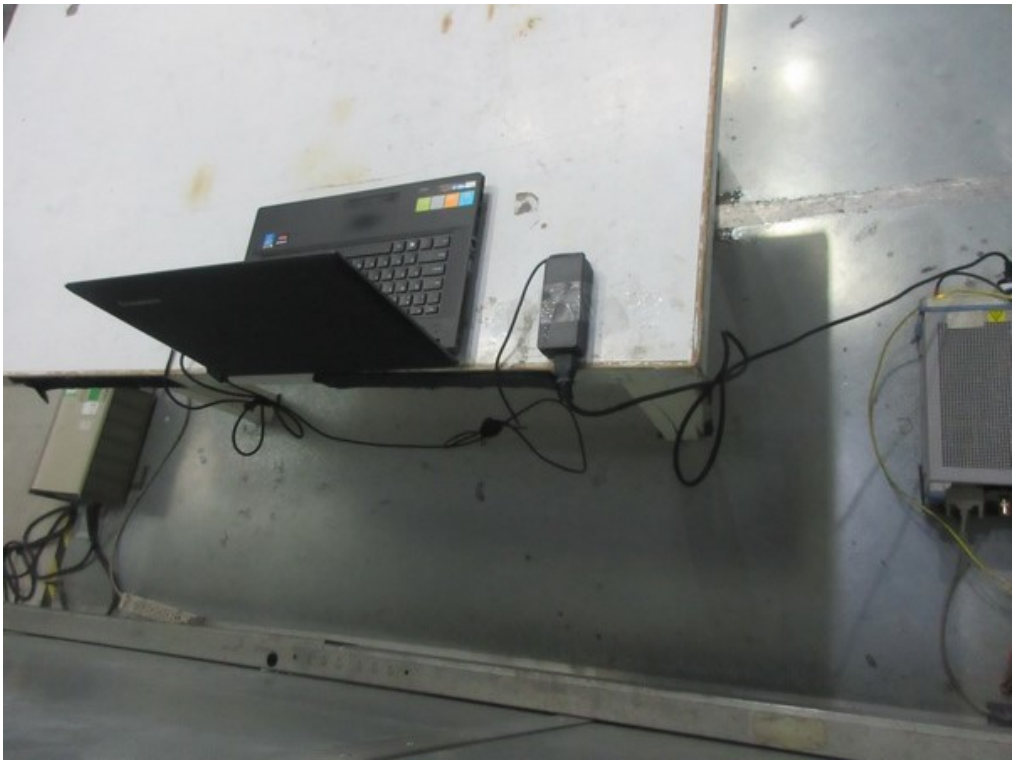
Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016

Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

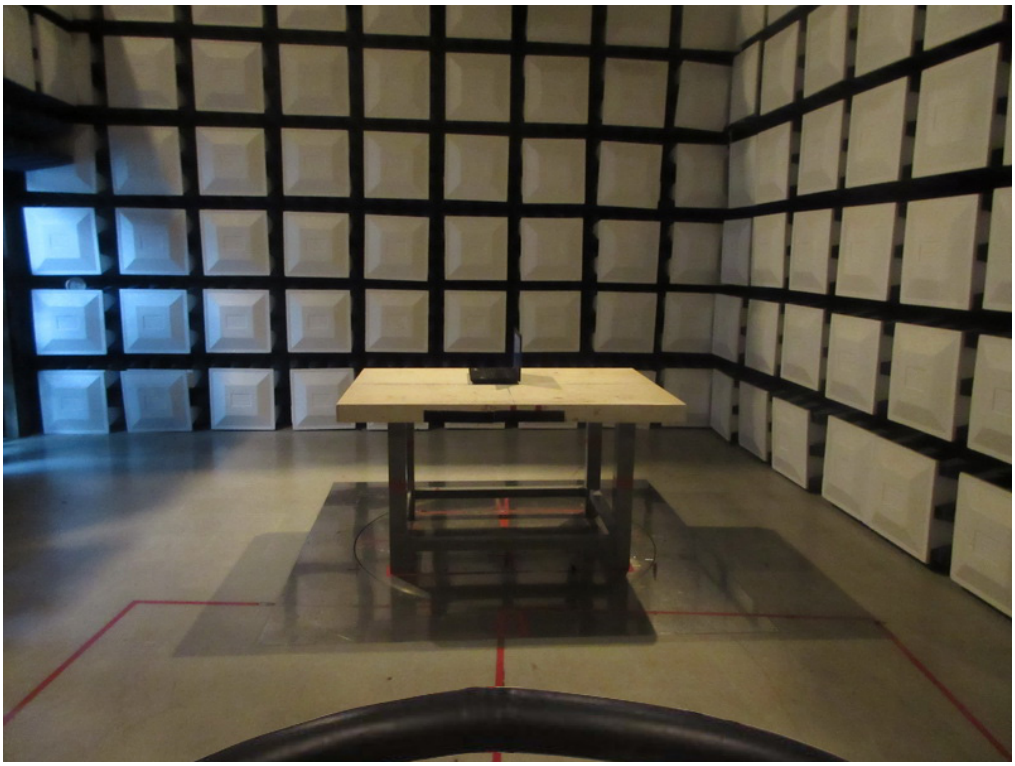
10. EUT TEST PHOTO

Conducted Measurement Photos



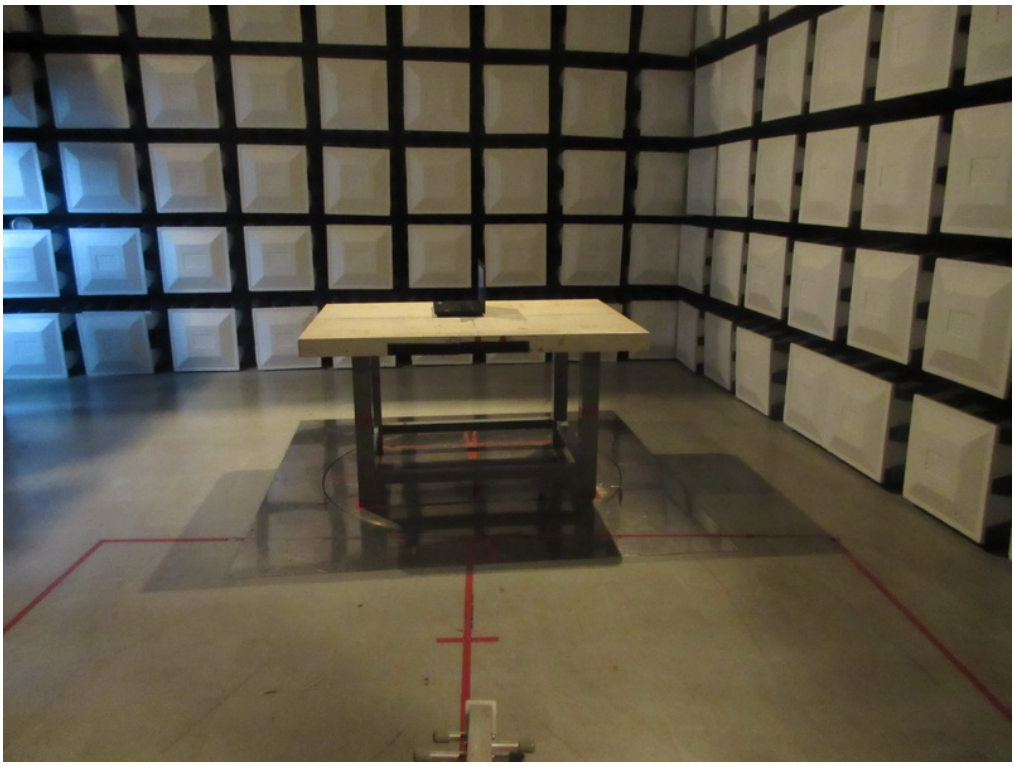
Radiated Measurement Photos

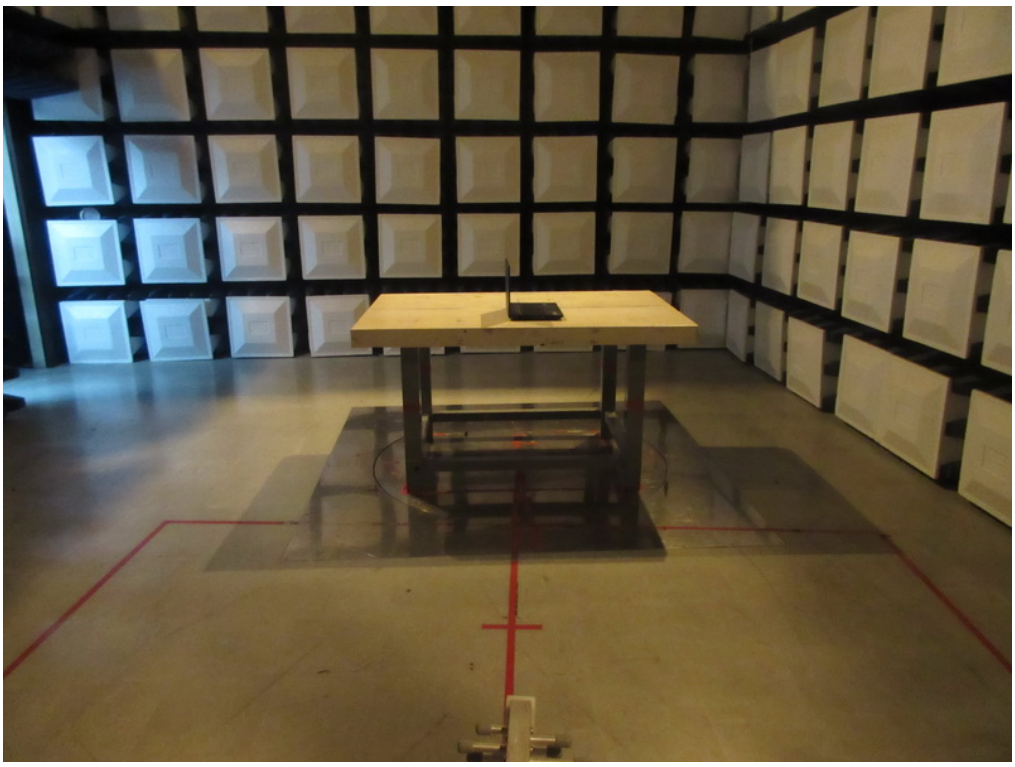
9KHz to 30MHz



Radiated Measurement Photos

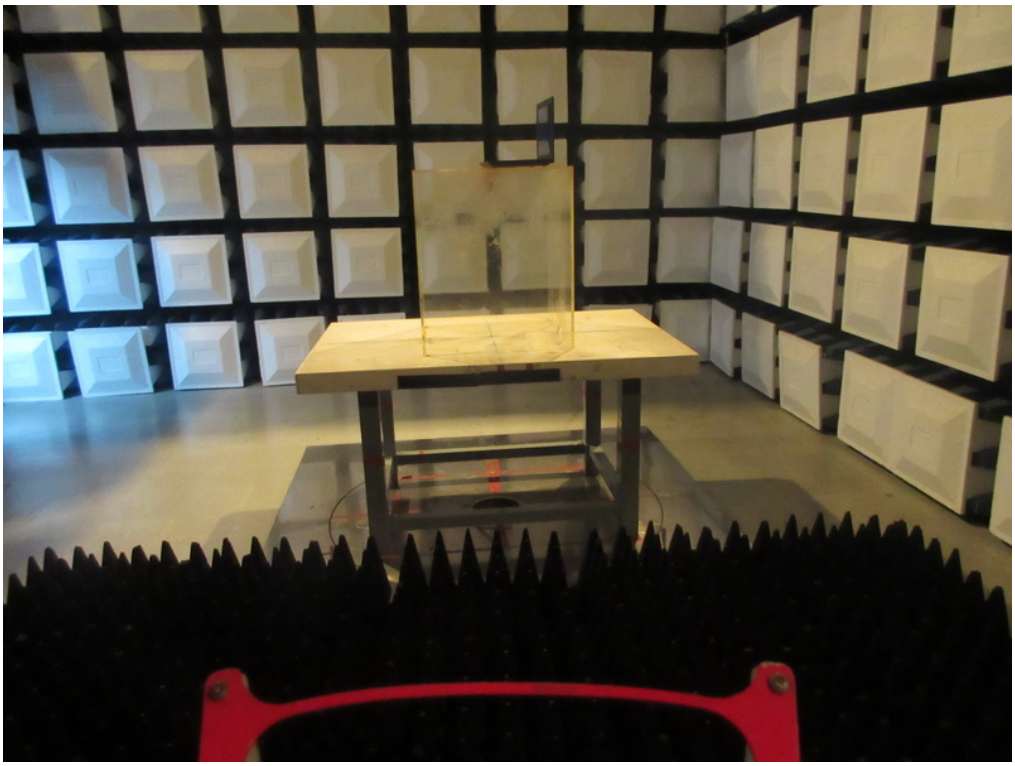
30MHz to 1000MHz





Radiated Measurement Photos

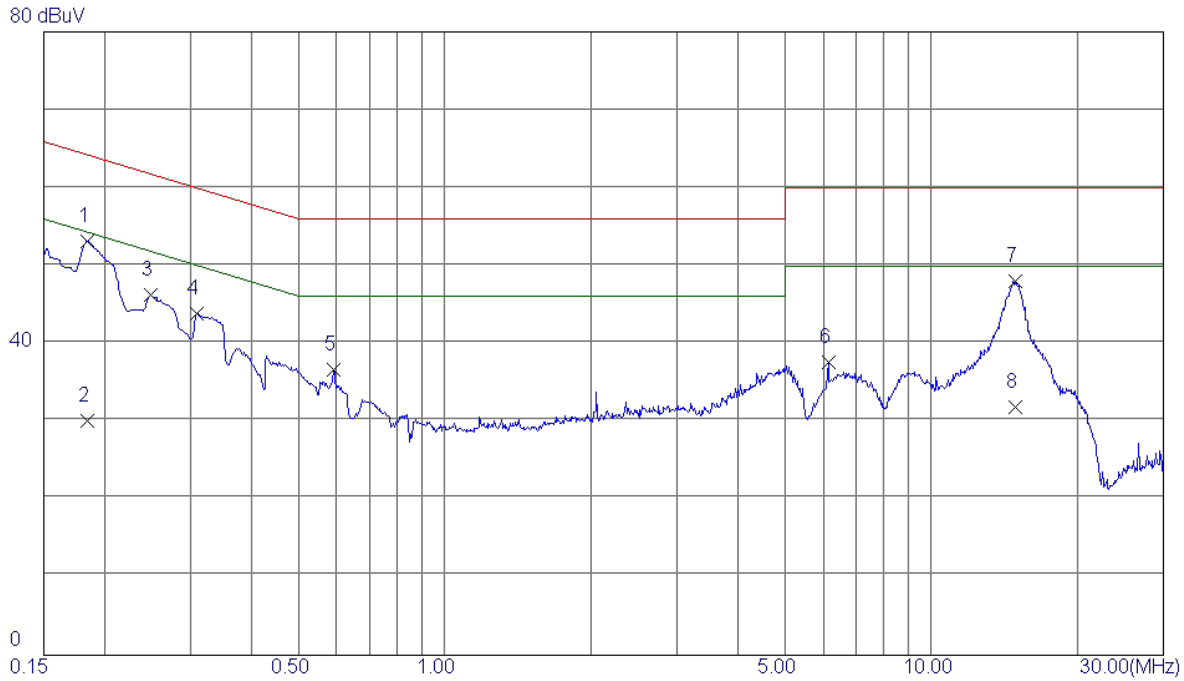
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode :	Normal Link

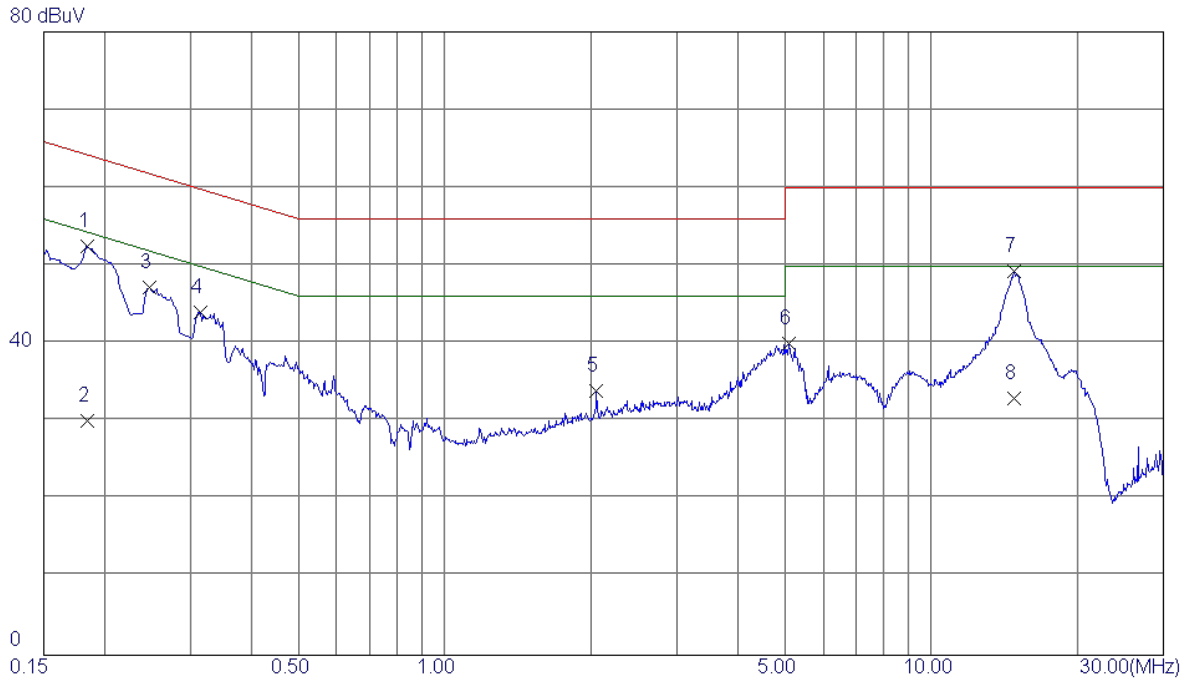
Line



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1838	43.46	9.70	53.16	64.31	-11.15	Peak	
2	0.1838	20.40	9.70	30.10	54.31	-24.21	AVG	
3	0.2490	36.53	9.73	46.26	61.79	-15.53	Peak	
4	0.3097	34.12	9.77	43.89	59.98	-16.09	Peak	
5	0.5910	26.73	9.85	36.58	56.00	-19.42	Peak	
6	6.1440	28.05	9.53	37.58	60.00	-22.42	Peak	
7	14.9145	37.78	10.28	48.06	60.00	-11.94	Peak	
8	14.9145	21.50	10.28	31.78	50.00	-18.22	AVG	

Test Mode :	Normal Link

Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1838	42.83	9.61	52.44	64.31	-11.87	Peak	
2	0.1838	20.49	9.61	30.10	54.31	-24.21	AVG	
3	0.2468	37.57	9.62	47.19	61.86	-14.67	Peak	
4	0.3141	34.44	9.63	44.07	59.86	-15.79	Peak	
5	2.0490	24.04	9.92	33.96	56.00	-22.04	Peak	
6	5.1023	29.90	10.10	40.00	60.00	-20.00	Peak	
7	14.8178	39.07	10.26	49.33	60.00	-10.67	Peak	
8	14.8178	22.71	10.26	32.97	50.00	-17.03	AVG	

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

Test Mode:	TX B MODE CHANNEL 01

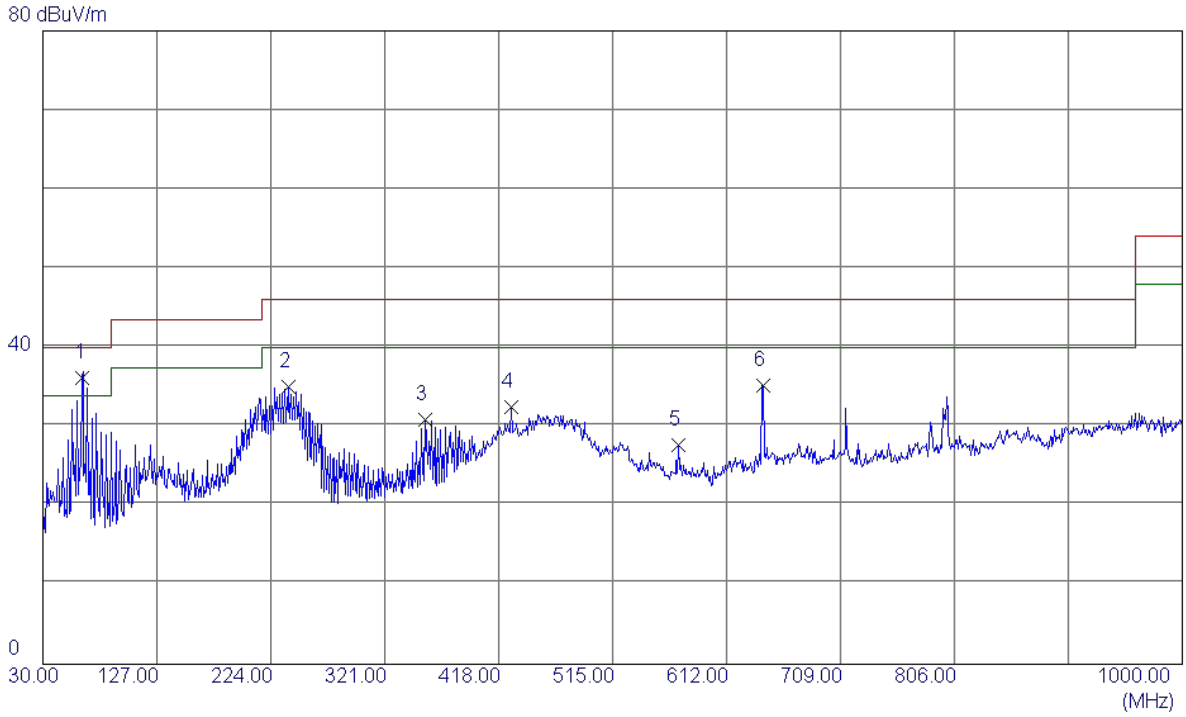
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0121	0°	13.79	24.8003	38.5903	125.9485	-87.3582	AVG
0.0121	0°	14.56	24.8003	39.3603	145.9485	-106.5882	PEAK
0.0293	0°	6.92	23.7110	30.6310	118.2669	-87.6359	AVG
0.0293	0°	8.37	23.7110	32.0810	138.2669	-106.1859	PEAK
0.0377	0°	3.36	23.1790	26.5390	116.0774	-89.5384	AVG
0.0377	0°	5.71	23.1790	28.8890	136.0774	-107.1884	PEAK
0.0621	0°	1.55	22.1580	23.7080	111.7424	-88.0344	AVG
0.0621	0°	2.91	22.1580	25.0680	131.7424	-106.6744	PEAK
0.5134	0°	19.57	19.8429	39.4129	73.3951	-33.9822	QP
1.9545	0°	23.46	19.5045	42.9646	69.5400	-26.5754	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0137	90°	13.47	24.3000	37.7700	124.8698	-87.0998	AVG
0.0137	90°	14.92	24.3000	39.2200	144.8698	-105.6498	PEAK
0.0295	90°	7.46	23.6983	31.1583	118.2078	-87.0495	AVG
0.0295	90°	9.03	23.6983	32.7283	138.2078	-105.4795	PEAK
0.0447	90°	5.47	22.7357	28.2057	114.5981	-86.3924	AVG
0.0447	90°	6.89	22.7357	29.6257	134.5981	-104.9724	PEAK
0.0592	90°	1.72	22.2160	23.9360	112.1578	-88.2218	AVG
0.0592	90°	2.96	22.2160	25.1760	132.1578	-106.9818	PEAK
0.6237	90°	22.38	20.1958	42.5758	71.7047	-29.1289	QP
2.0567	90°	24.73	19.4660	44.1960	69.5400	-25.3440	QP

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

Test Mode:	TX B MODE CHANNEL 01

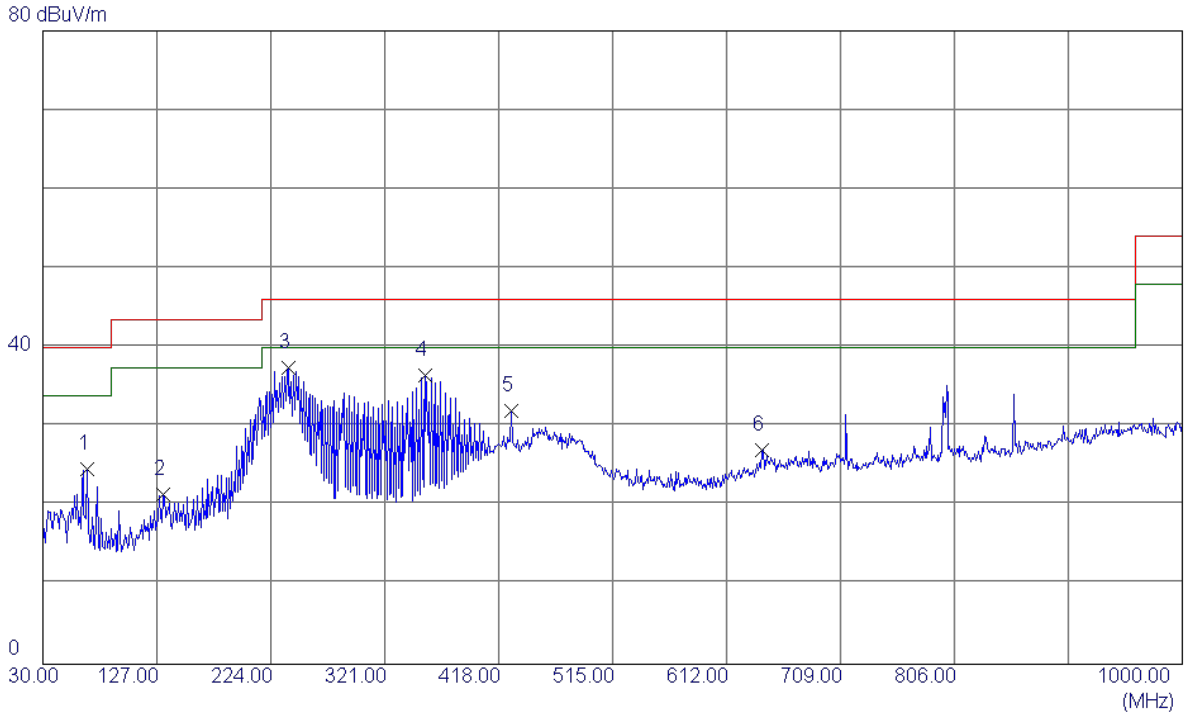
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	63.9500	50.09	-13.96	36.13	40.00	-3.87	QP	
2	239.5200	47.40	-12.42	34.98	46.00	-11.02	Peak	
3	355.9200	40.53	-9.61	30.92	46.00	-15.08	Peak	
4	428.6700	38.98	-6.48	32.50	46.00	-13.50	Peak	
5	571.2600	32.33	-4.63	27.70	46.00	-18.30	Peak	
6	643.0400	37.32	-2.06	35.26	46.00	-10.74	Peak	

Test Mode:	TX B MODE CHANNEL 01

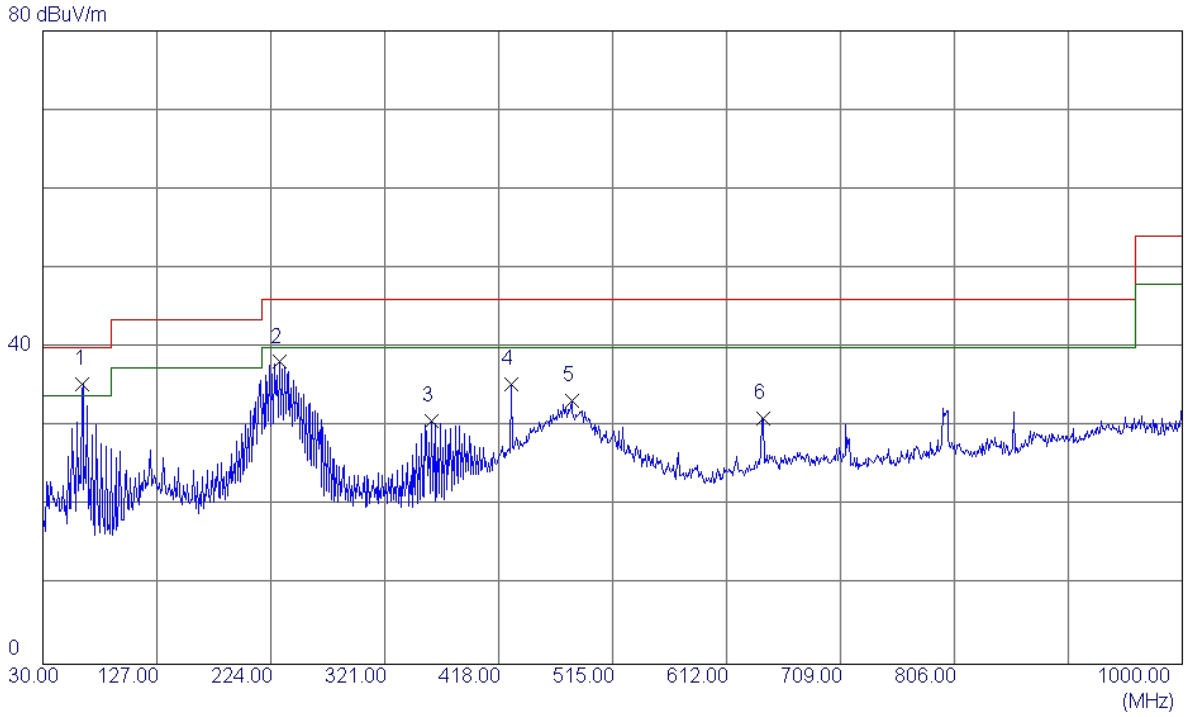
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	67.8300	39.05	-14.46	24.59	40.00	-15.41	Peak	
2	132.8200	32.93	-11.52	21.41	43.50	-22.09	Peak	
3	239.5200	49.84	-12.42	37.42	46.00	-8.58	Peak	
4	355.9200	46.16	-9.61	36.55	46.00	-9.45	Peak	
5	428.6700	38.51	-6.48	32.03	46.00	-13.97	Peak	
6	642.0700	29.23	-2.12	27.11	46.00	-18.89	Peak	

Test Mode:	TX B MODE CHANNEL 06

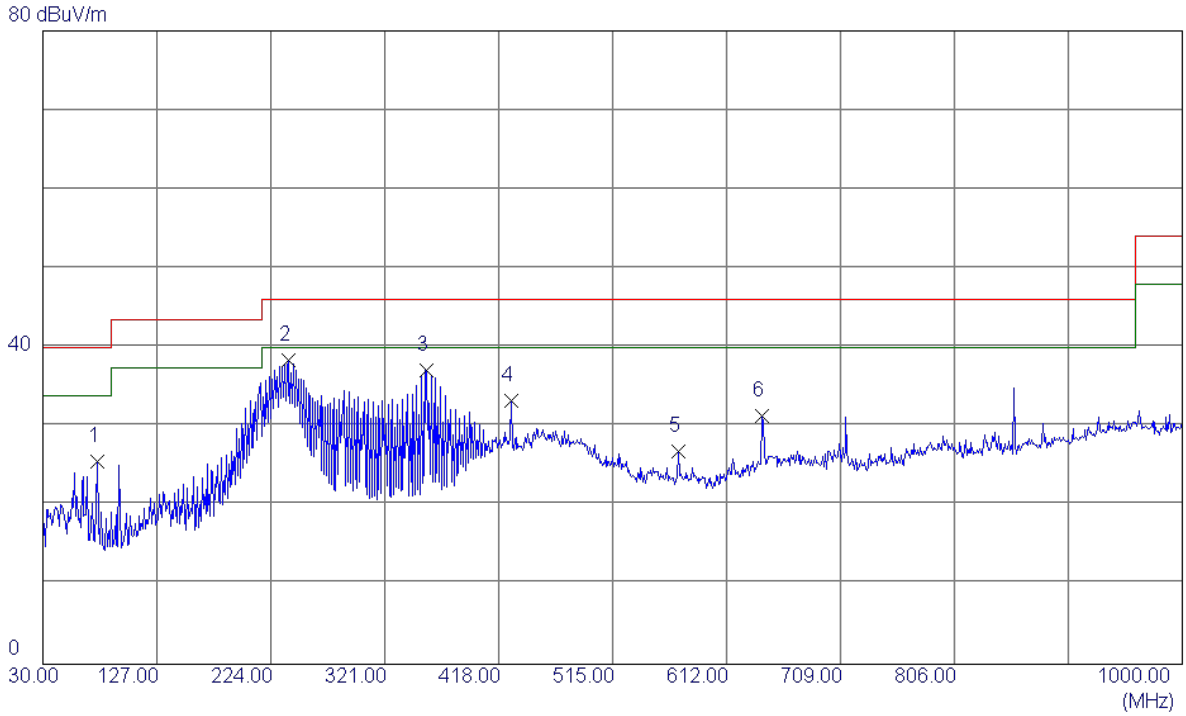
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	63.9500	49.27	-13.96	35.31	40.00	-4.69	Peak	
2	231.7600	50.86	-12.70	38.16	46.00	-7.84	Peak	
3	360.7700	40.03	-9.35	30.68	46.00	-15.32	Peak	
4	428.6700	41.88	-6.48	35.40	46.00	-10.60	Peak	
5	480.0800	40.13	-6.79	33.34	46.00	-12.66	Peak	
6	643.0400	33.12	-2.06	31.06	46.00	-14.94	Peak	

Test Mode:	TX B MODE CHANNEL 06

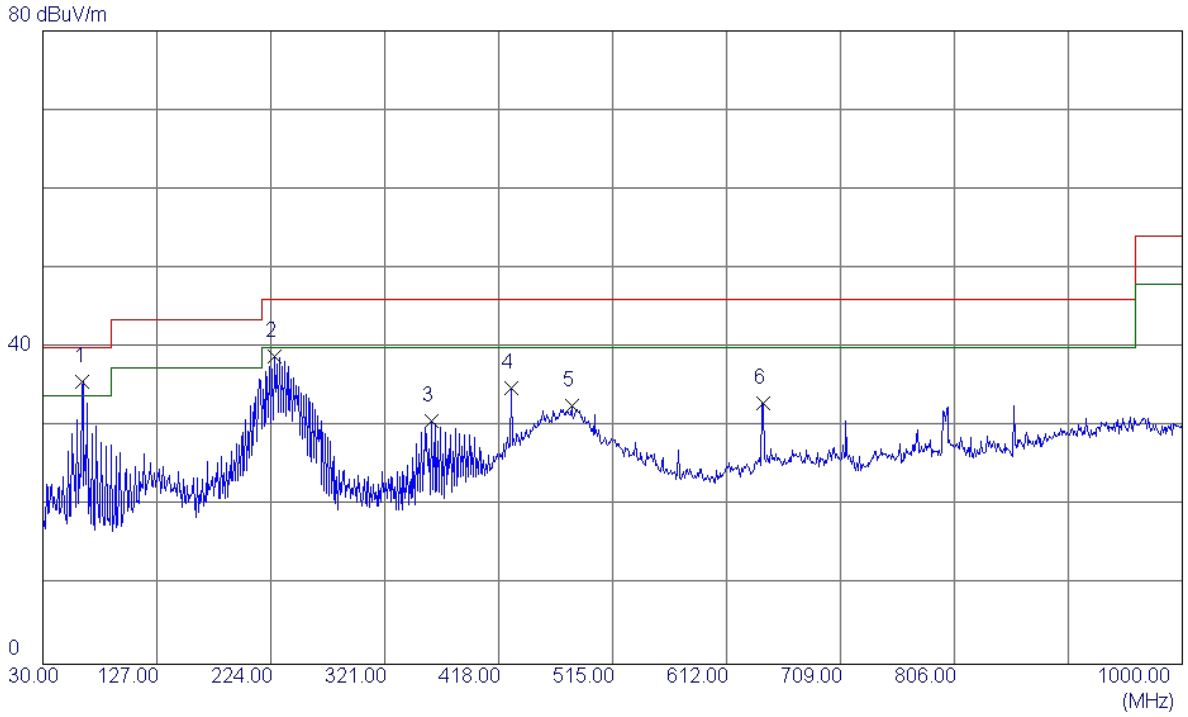
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	76.5600	40.92	-15.39	25.53	40.00	-14.47	Peak	
2	239.5200	50.81	-12.42	38.39	46.00	-7.61	Peak	
3	356.8900	46.74	-9.56	37.18	46.00	-8.82	Peak	
4	428.6700	39.71	-6.48	33.23	46.00	-12.77	Peak	
5	571.2600	31.51	-4.63	26.88	46.00	-19.12	Peak	
6	642.0700	33.41	-2.12	31.29	46.00	-14.71	Peak	

Test Mode:	TX B MODE CHANNEL 11

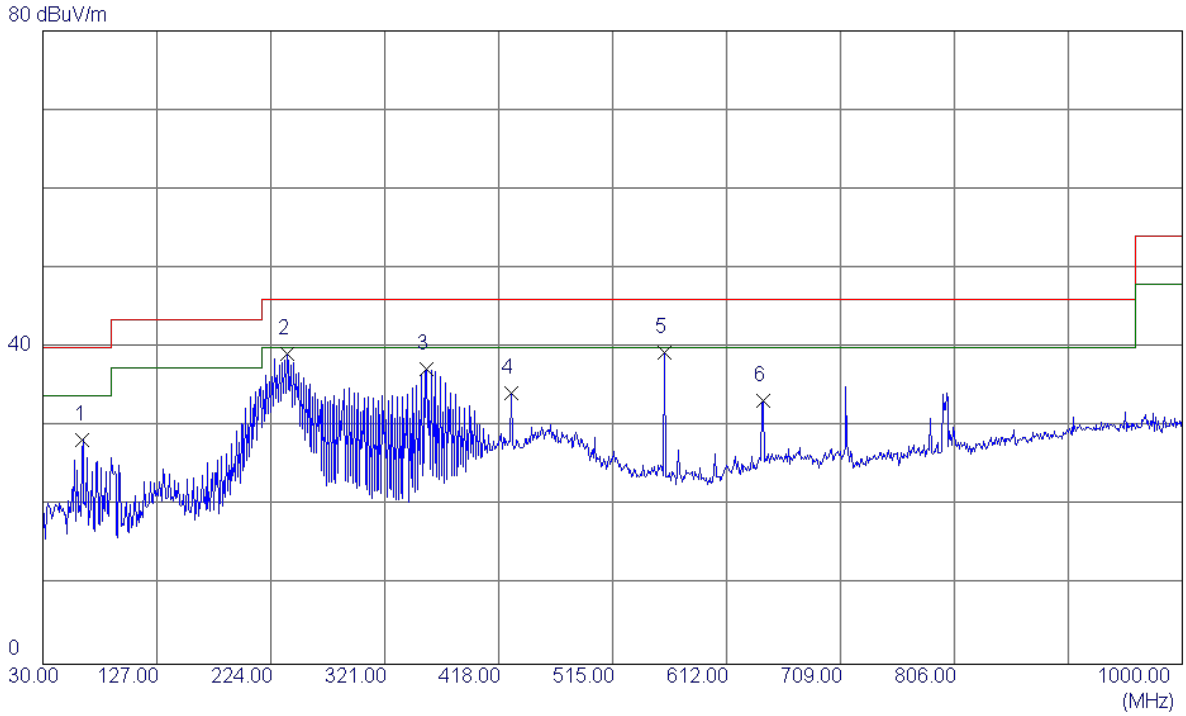
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	63.9500	49.65	-13.96	35.69	40.00	-4.31	Peak	
2	226.9100	51.82	-12.95	38.87	46.00	-7.13	Peak	
3	360.7700	40.06	-9.35	30.71	46.00	-15.29	Peak	
4	428.6700	41.31	-6.48	34.83	46.00	-11.17	Peak	
5	480.0800	39.39	-6.79	32.60	46.00	-13.40	Peak	
6	643.0400	35.07	-2.06	33.01	46.00	-12.99	Peak	

Test Mode:	TX B MODE CHANNEL 11

Horizontal

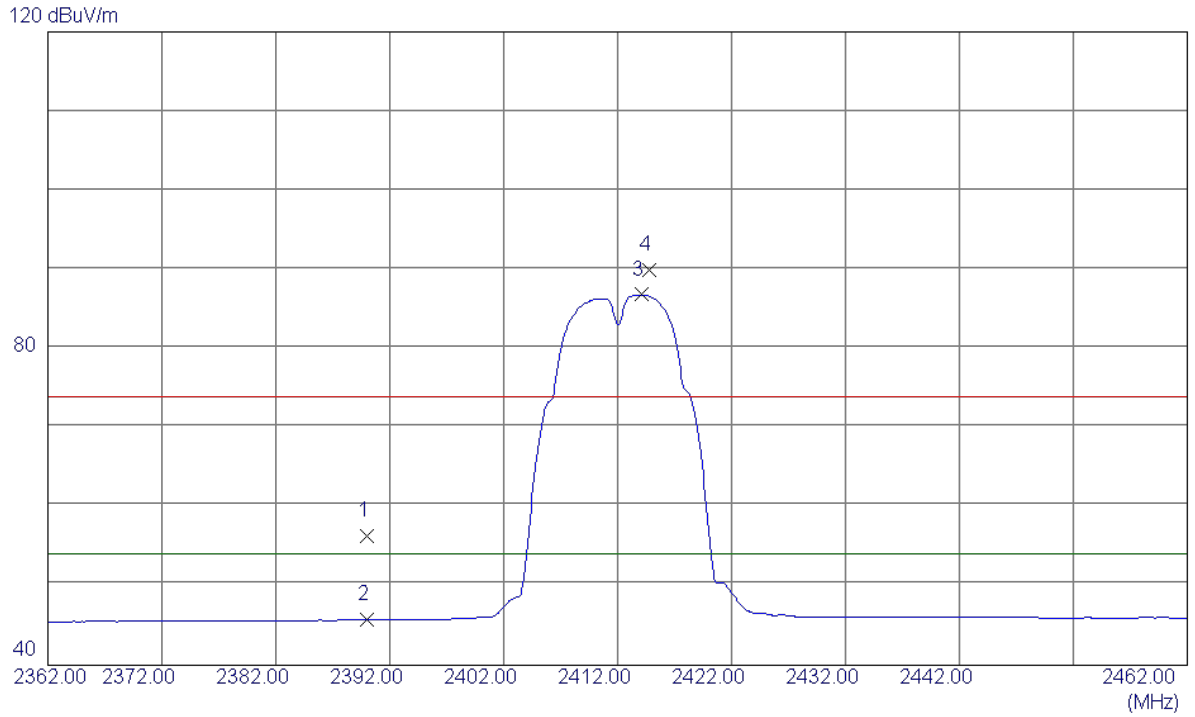


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	63.9500	42.35	-13.96	28.39	40.00	-11.61	Peak	
2	237.5800	51.66	-12.49	39.17	46.00	-6.83	Peak	
3	356.8900	46.79	-9.56	37.23	46.00	-8.77	Peak	
4	428.6700	40.77	-6.48	34.29	46.00	-11.71	Peak	
5	559.6200	43.98	-4.62	39.36	46.00	-6.64	Peak	
6	643.0400	35.28	-2.06	33.22	46.00	-12.78	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

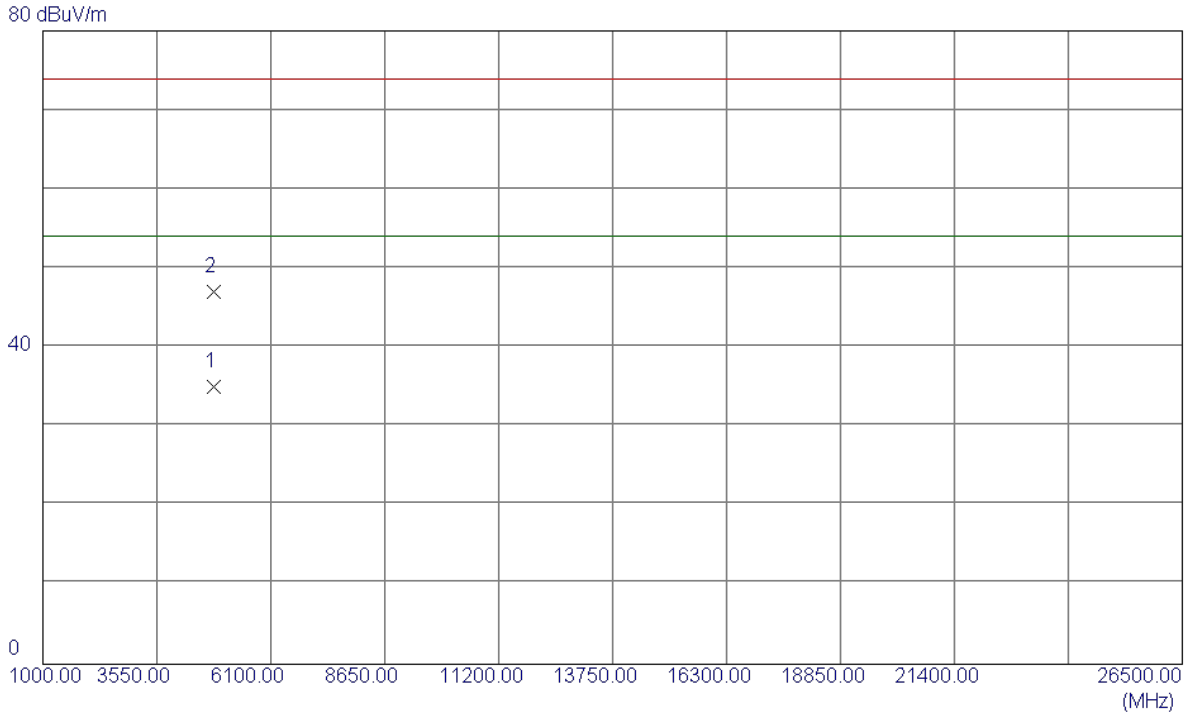
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23.59	32.68	56.27	74.00	-17.73	Peak	
2	2390.0000	13.06	32.68	45.74	54.00	-8.26	AVG	
3	2414.1000	54.09	32.71	86.80	54.00	32.80	AVG	No Limit
4	2414.8000	57.26	32.71	89.97	74.00	15.97	Peak	No Limit

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

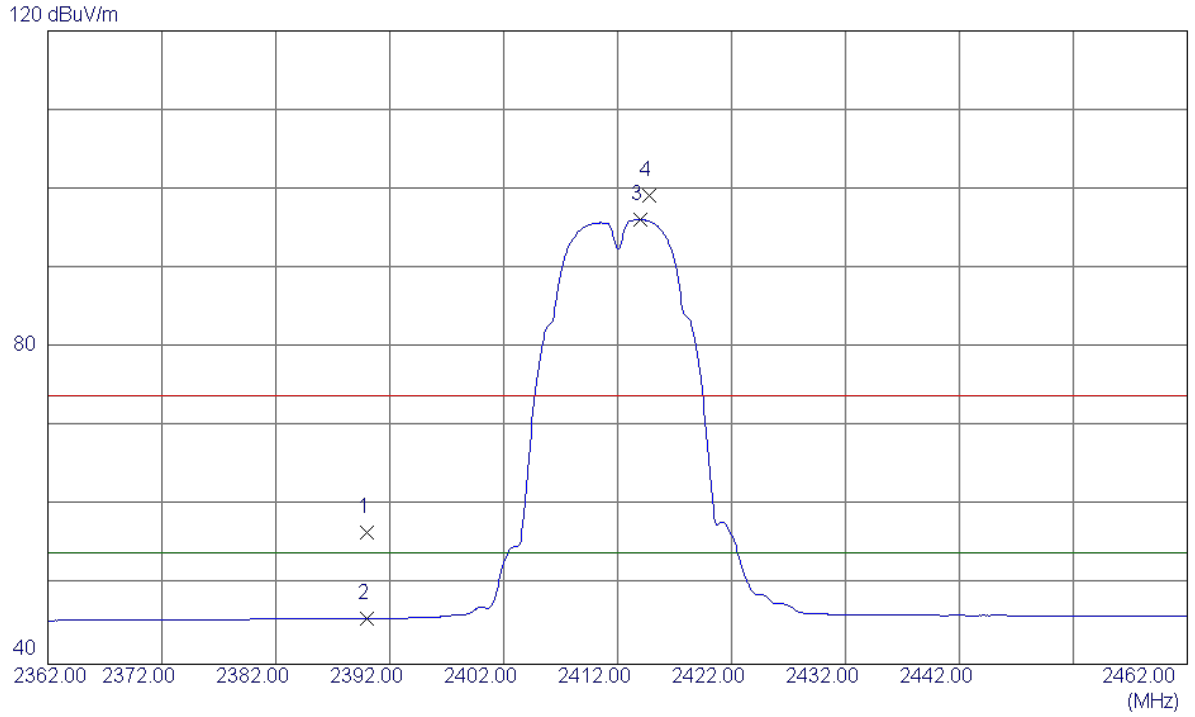
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9200	29.12	5.87	34.99	54.00	-19.01	AVG	
2	4824.4600	41.20	5.87	47.07	74.00	-26.93	Peak	

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

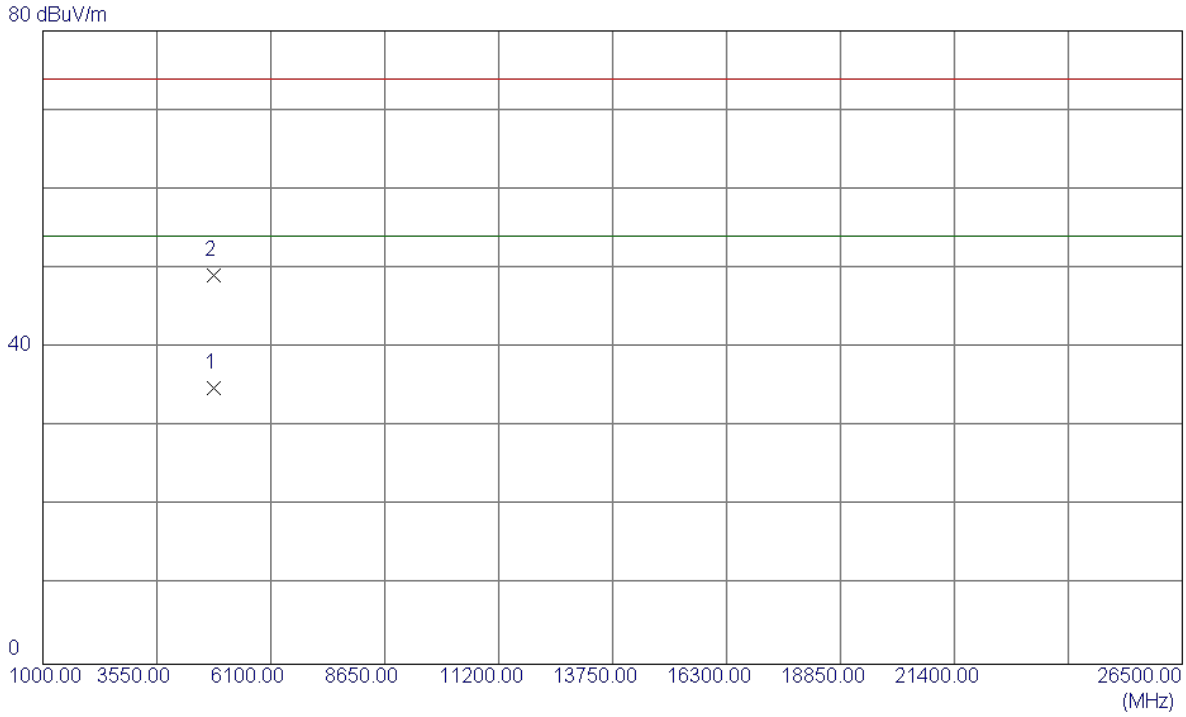
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23.89	32.68	56.57	74.00	-17.43	Peak	
2	2390.0000	13.11	32.68	45.79	54.00	-8.21	AVG	
3	2414.0000	63.46	32.71	96.17	54.00	42.17	AVG	No Limit
4	2414.8000	66.54	32.71	99.25	74.00	25.25	Peak	No Limit

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

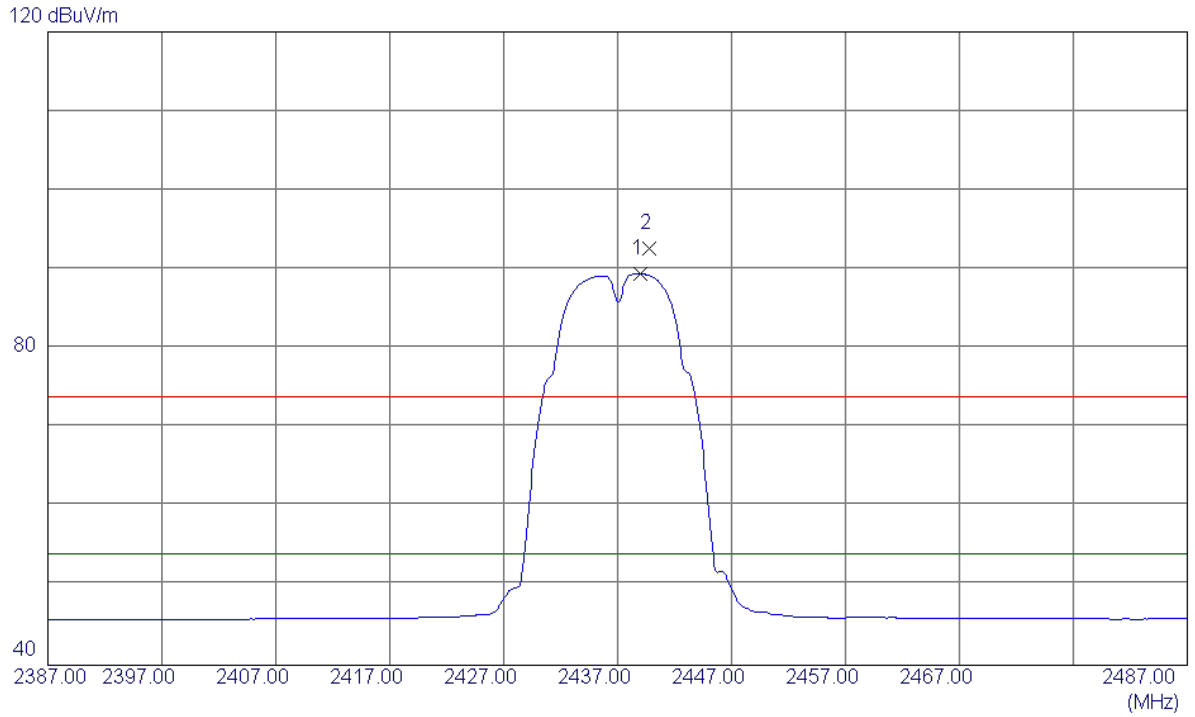
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.4600	29.07	5.87	34.94	54.00	-19.06	AVG	
2	4825.7000	43.22	5.87	49.09	74.00	-24.91	Peak	

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

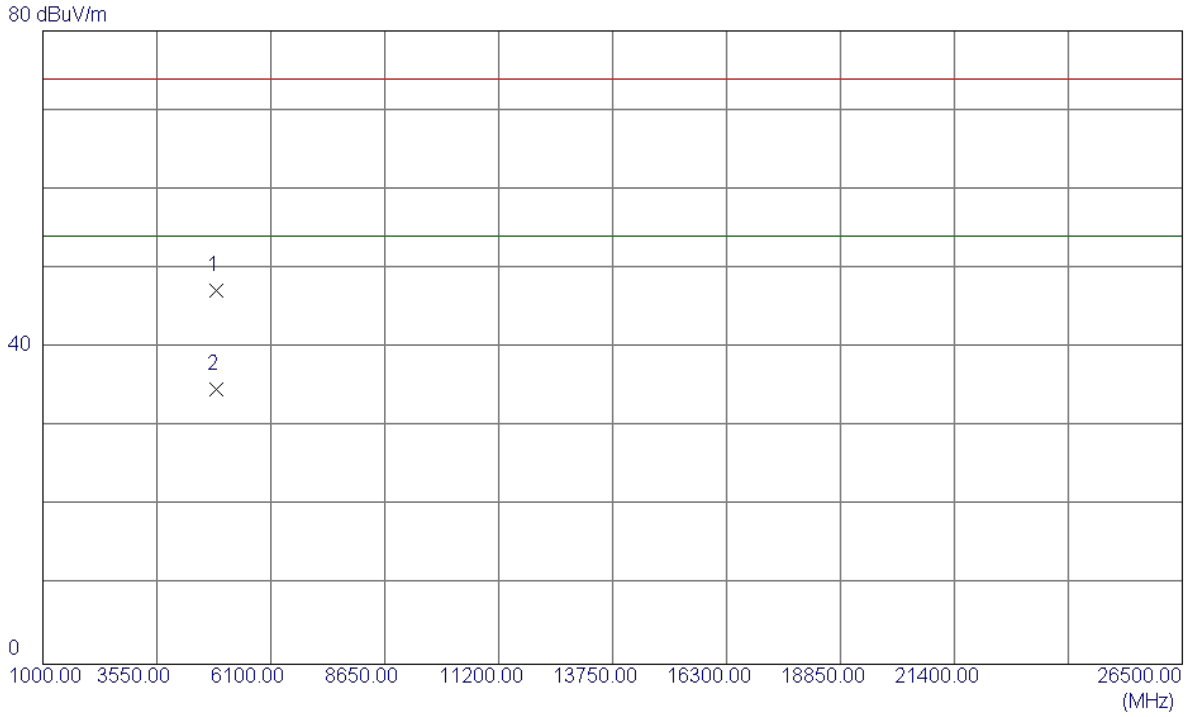
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439.0000	56.72	32.75	89.47	54.00	35.47	AVG	No Limit
2	2439.8000	59.86	32.75	92.61	74.00	18.61	Peak	No Limit

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

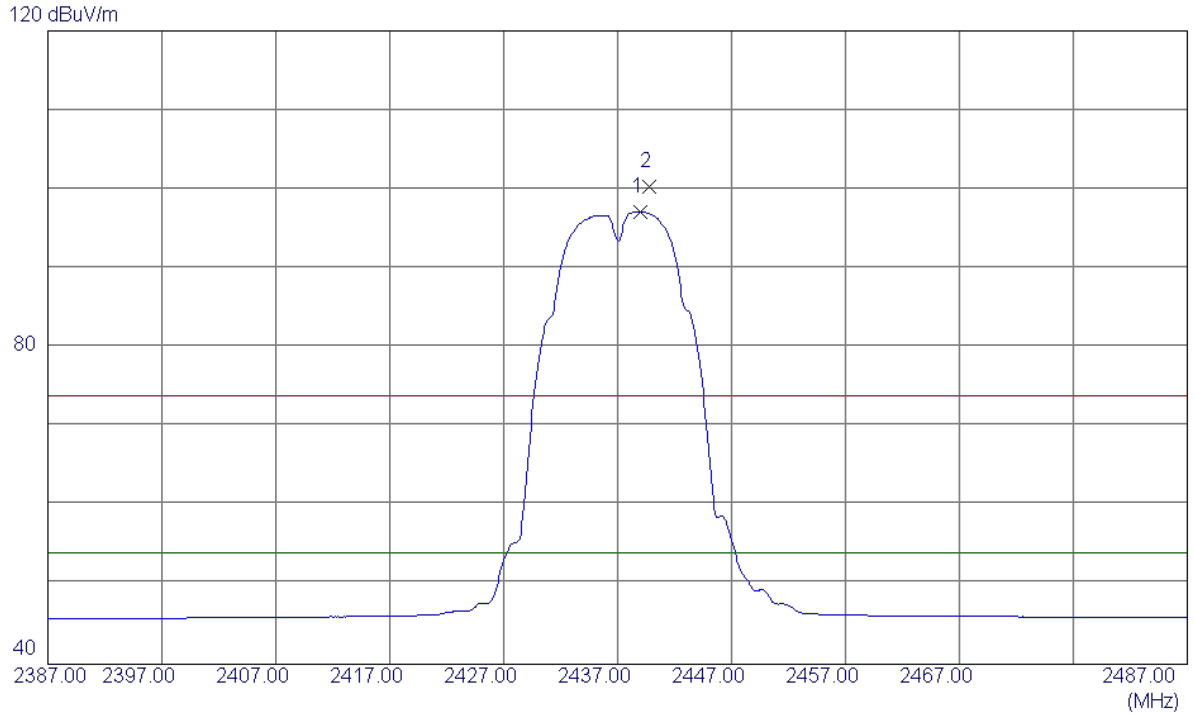
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.2300	41.15	6.00	47.15	74.00	-26.85	Peak	
2	4875.0400	28.73	6.01	34.74	54.00	-19.26	AVG	

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

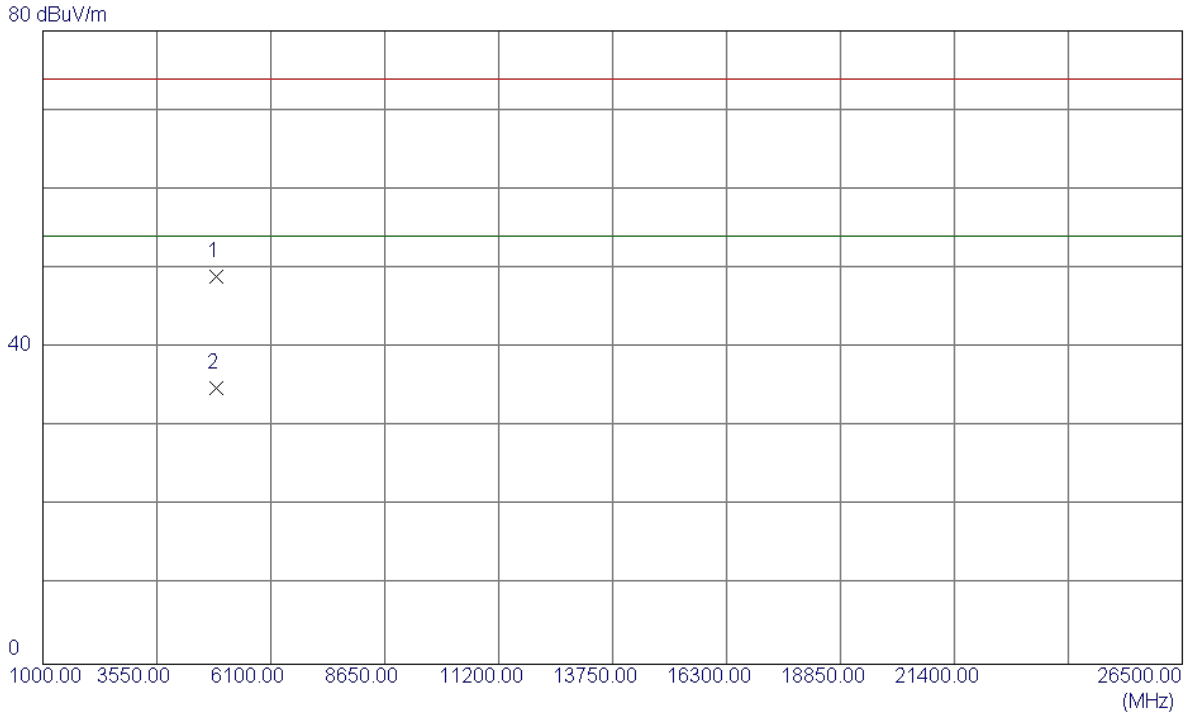
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439.0000	64.42	32.75	97.17	54.00	43.17	AVG	No Limit
2	2439.8000	67.51	32.75	100.26	74.00	26.26	Peak	No Limit

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

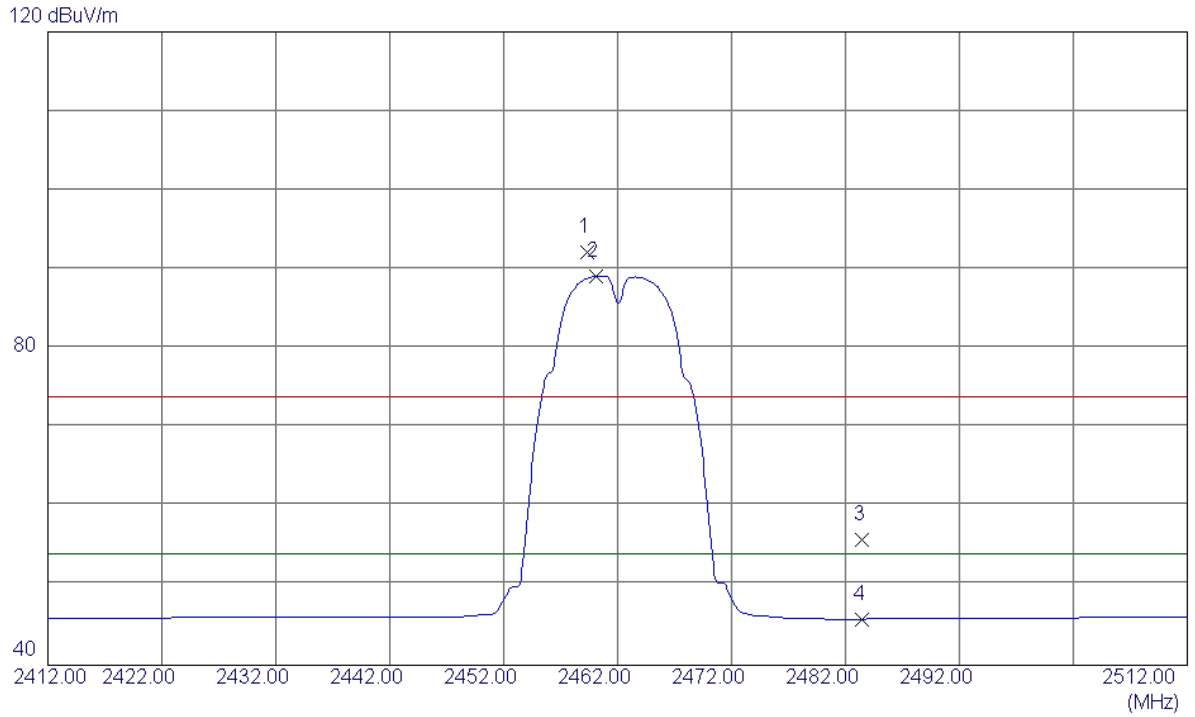
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.6800	43.03	6.00	49.03	74.00	-24.97	Peak	
2	4874.5500	28.85	6.00	34.85	54.00	-19.15	AVG	

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

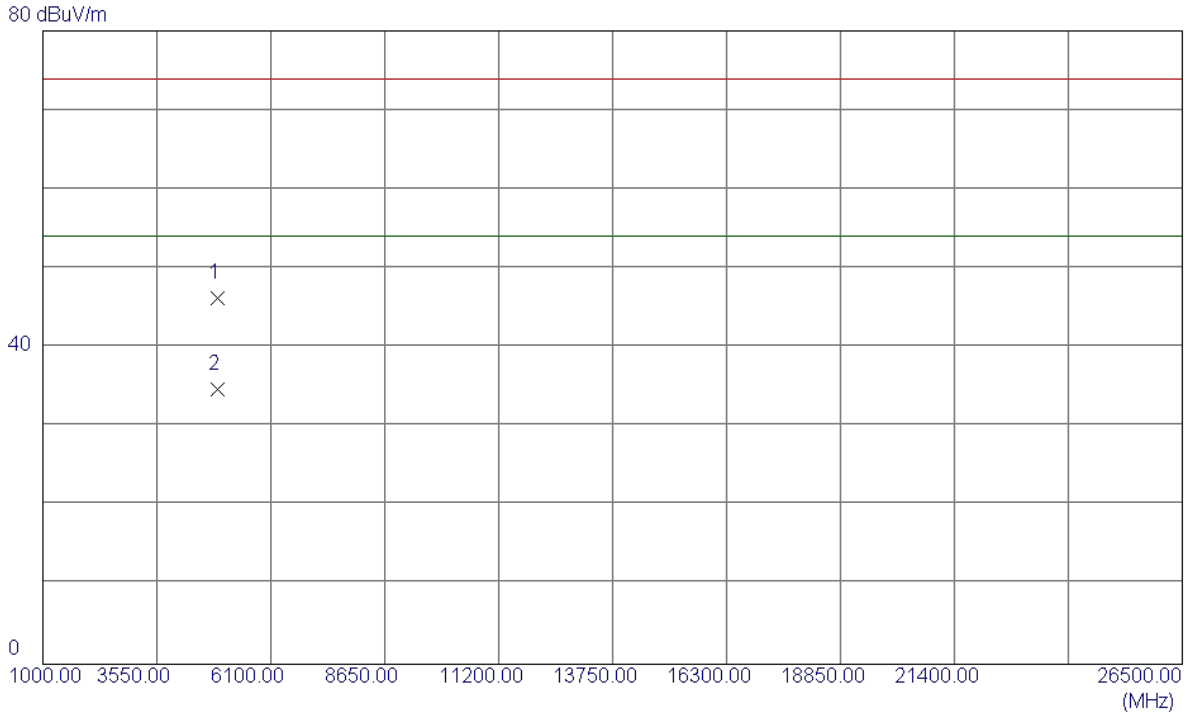
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459.3000	59.40	32.77	92.17	74.00	18.17	Peak	No Limit
2	2460.1000	56.40	32.77	89.17	54.00	35.17	AVG	No Limit
3	2483.5000	23.00	32.81	55.81	74.00	-18.19	Peak	
4	2483.5000	13.02	32.81	45.83	54.00	-8.17	AVG	

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

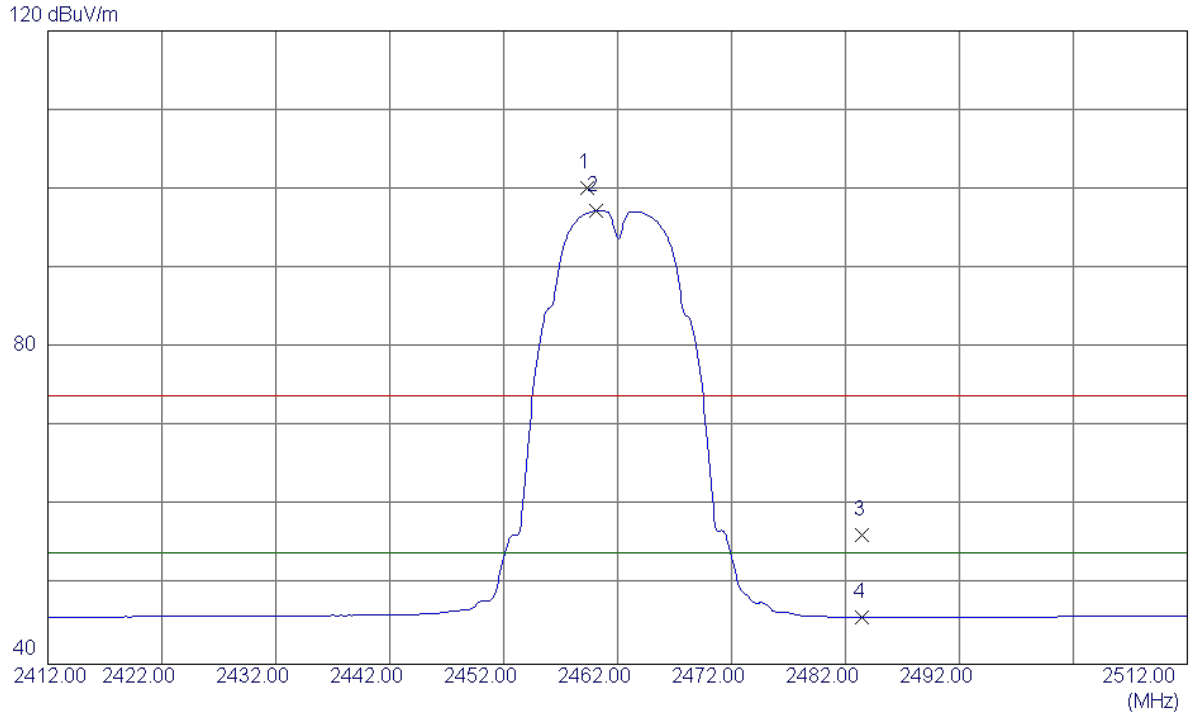
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0099	40.11	6.14	46.25	74.00	-27.75	Peak	
2	4924.1300	28.51	6.14	34.65	54.00	-19.35	AVG	

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

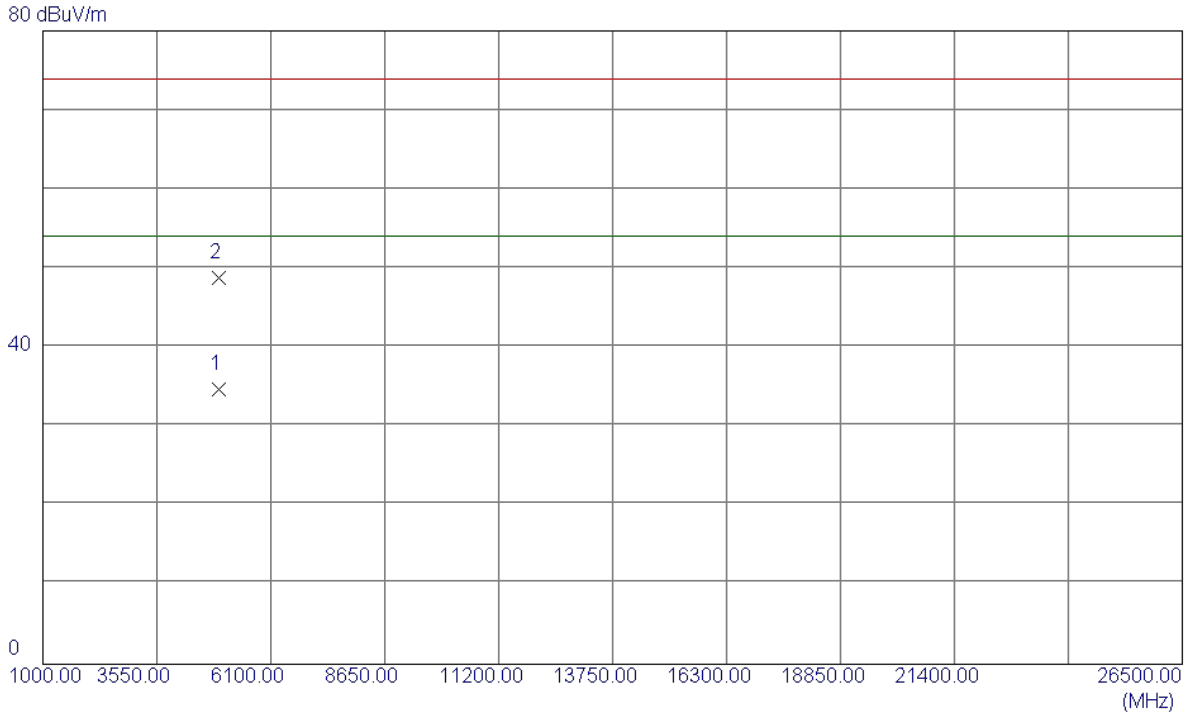
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459.3000	67.45	32.77	100.22	74.00	26.22	Peak	No Limit
2	2460.1000	64.51	32.77	97.28	54.00	43.28	AVG	No Limit
3	2483.5000	23.49	32.81	56.30	74.00	-17.70	Peak	
4	2483.5000	13.13	32.81	45.94	54.00	-8.06	AVG	

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

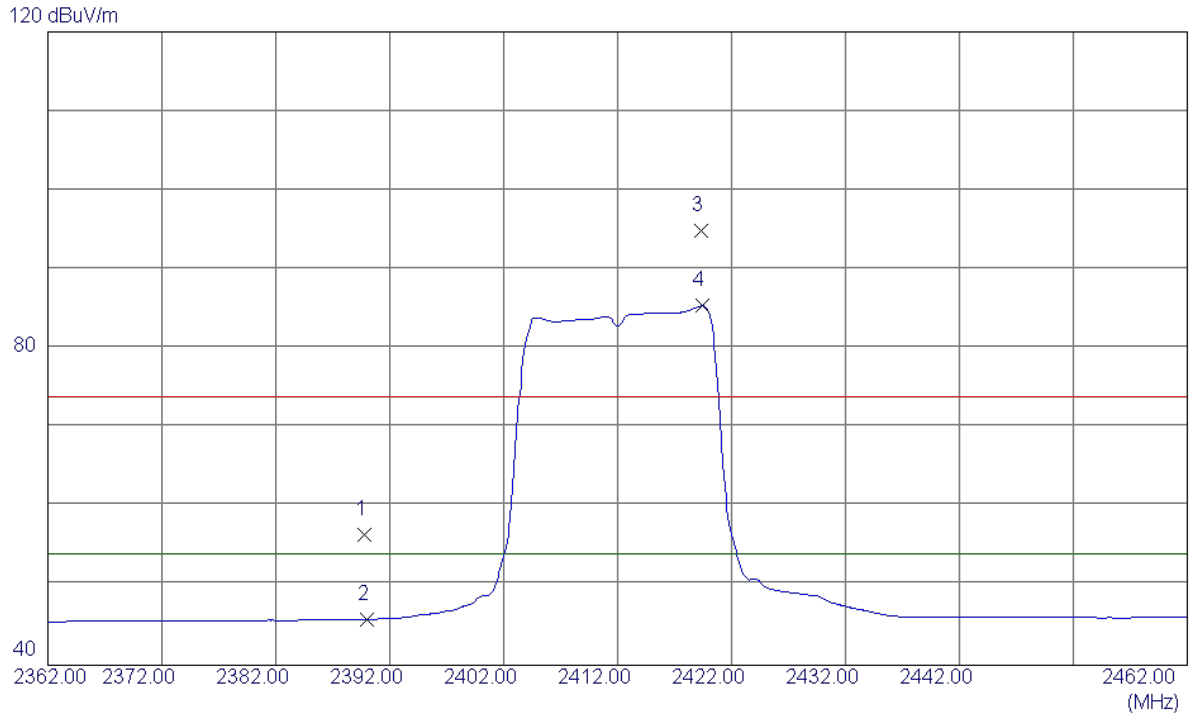
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.4200	28.62	6.14	34.76	54.00	-19.24	AVG	
2	4925.1100	42.64	6.14	48.78	74.00	-25.22	Peak	

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

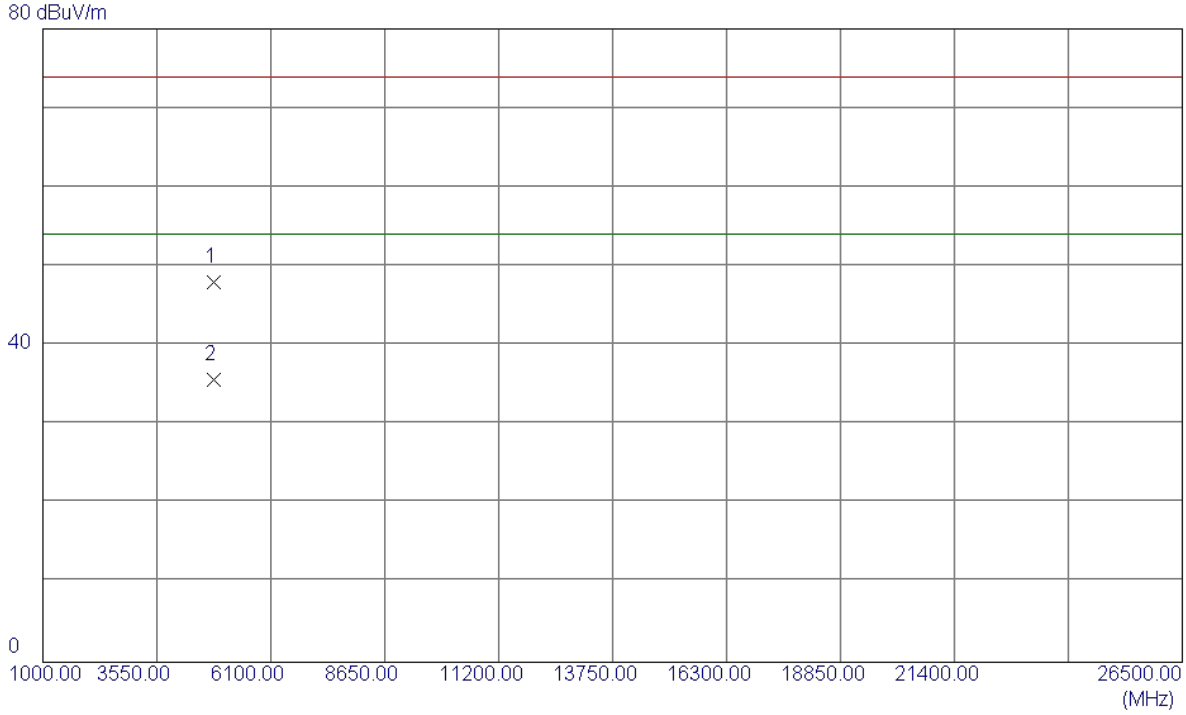
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2389.8000	23.78	32.68	56.46	74.00	-17.54	Peak	
2	2390.0000	13.13	32.68	45.81	54.00	-8.19	AVG	
3	2419.3000	62.13	32.72	94.85	74.00	20.85	Peak	No Limit
4	2419.4000	52.65	32.72	85.37	54.00	31.37	AVG	No Limit

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

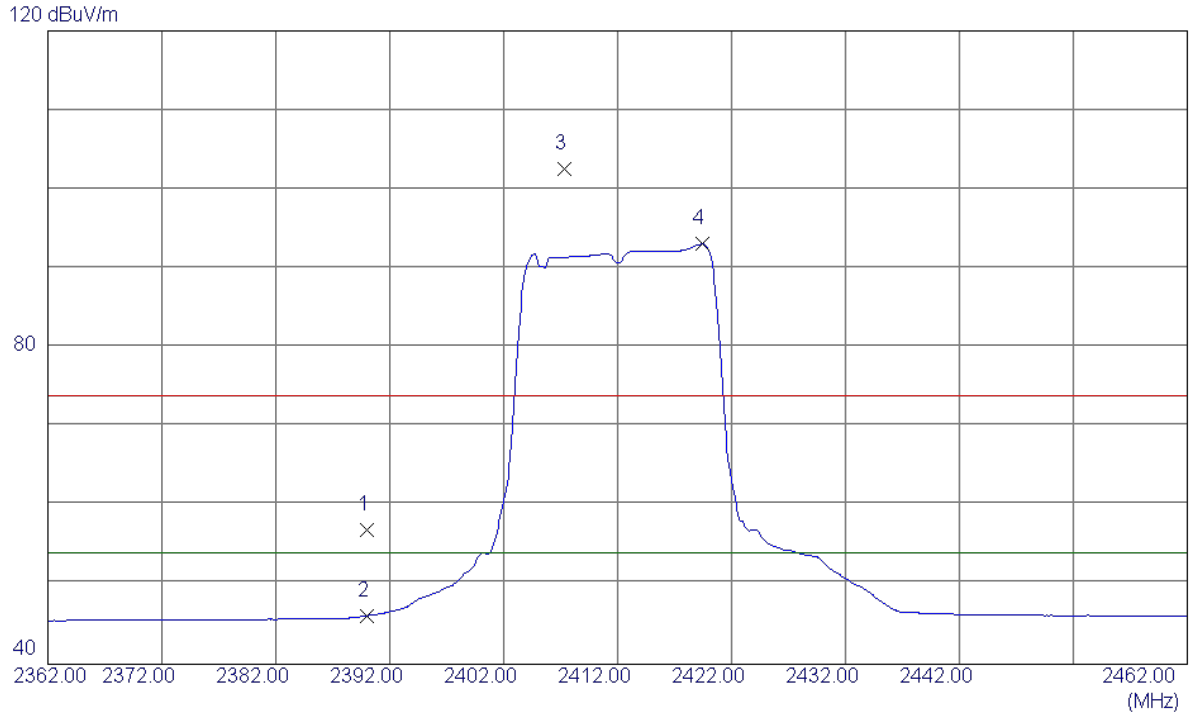
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4822.9200	42.07	5.87	47.94	74.00	-26.06	Peak	
2	4824.6200	29.77	5.87	35.64	54.00	-18.36	AVG	

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

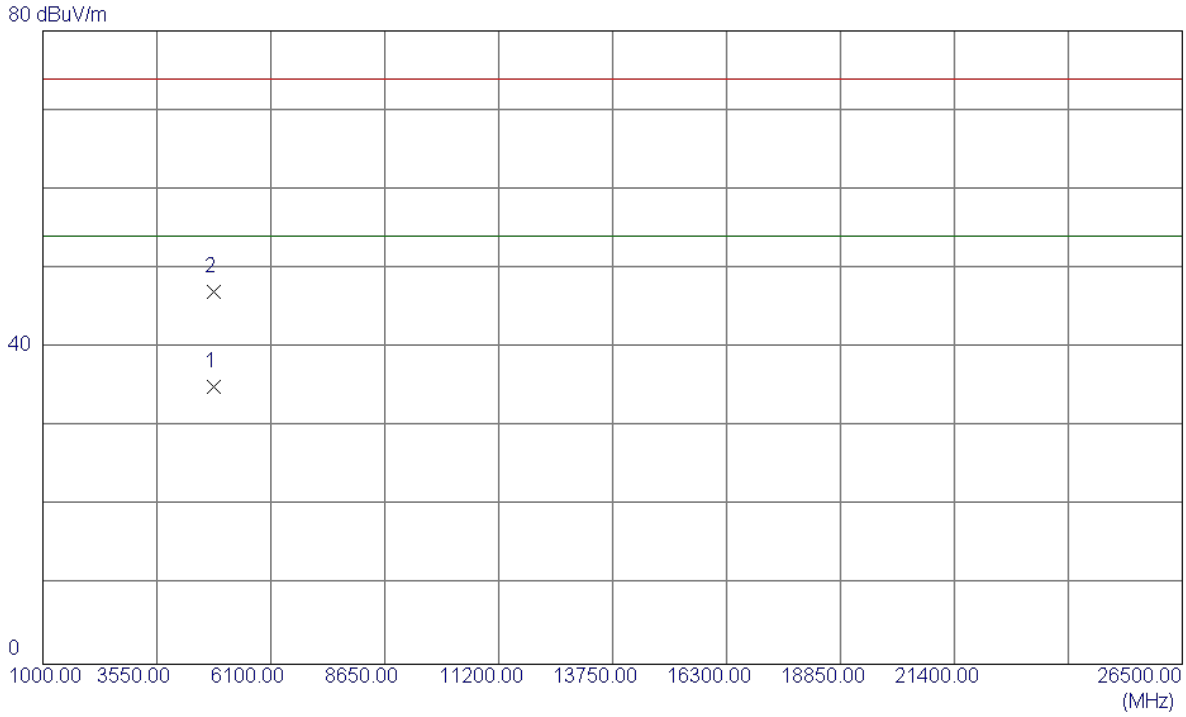
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24.21	32.68	56.89	74.00	-17.11	Peak	
2	2390.0000	13.45	32.68	46.13	54.00	-7.87	AVG	
3	2407.3000	69.91	32.70	102.61	74.00	28.61	Peak	No Limit
4	2419.4000	60.35	32.72	93.07	54.00	39.07	AVG	No Limit

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

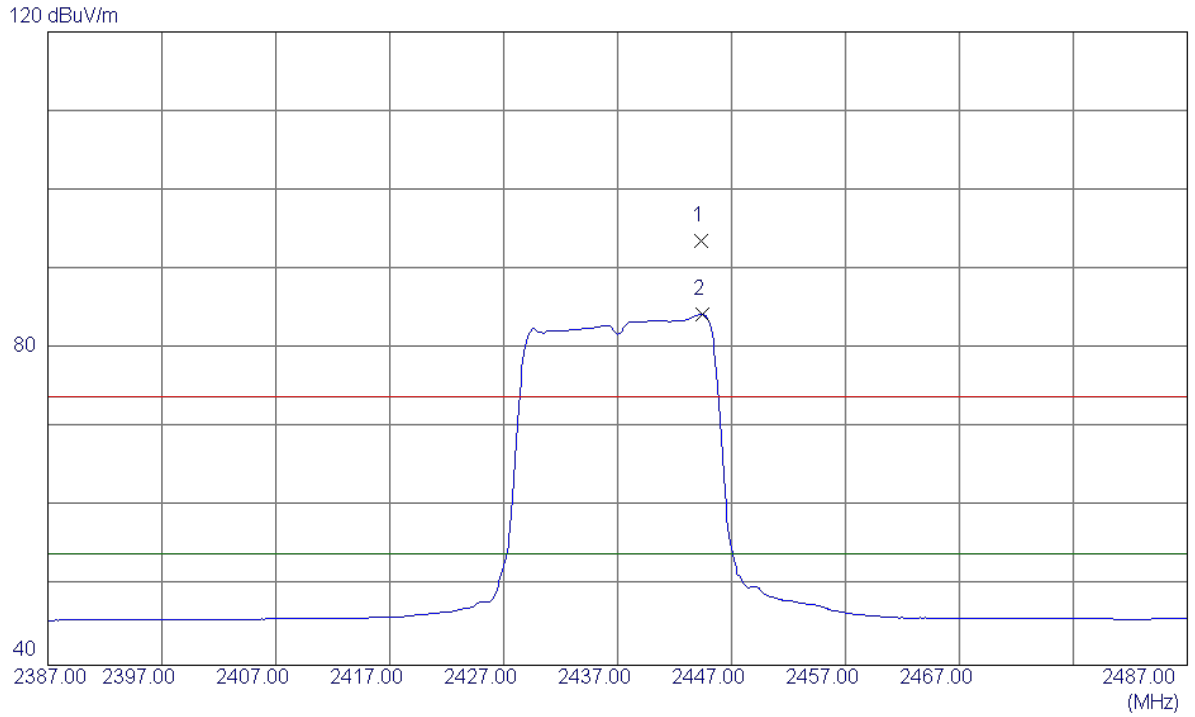
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.1300	29.18	5.87	35.05	54.00	-18.95	AVG	
2	4824.5700	41.22	5.87	47.09	74.00	-26.91	Peak	

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

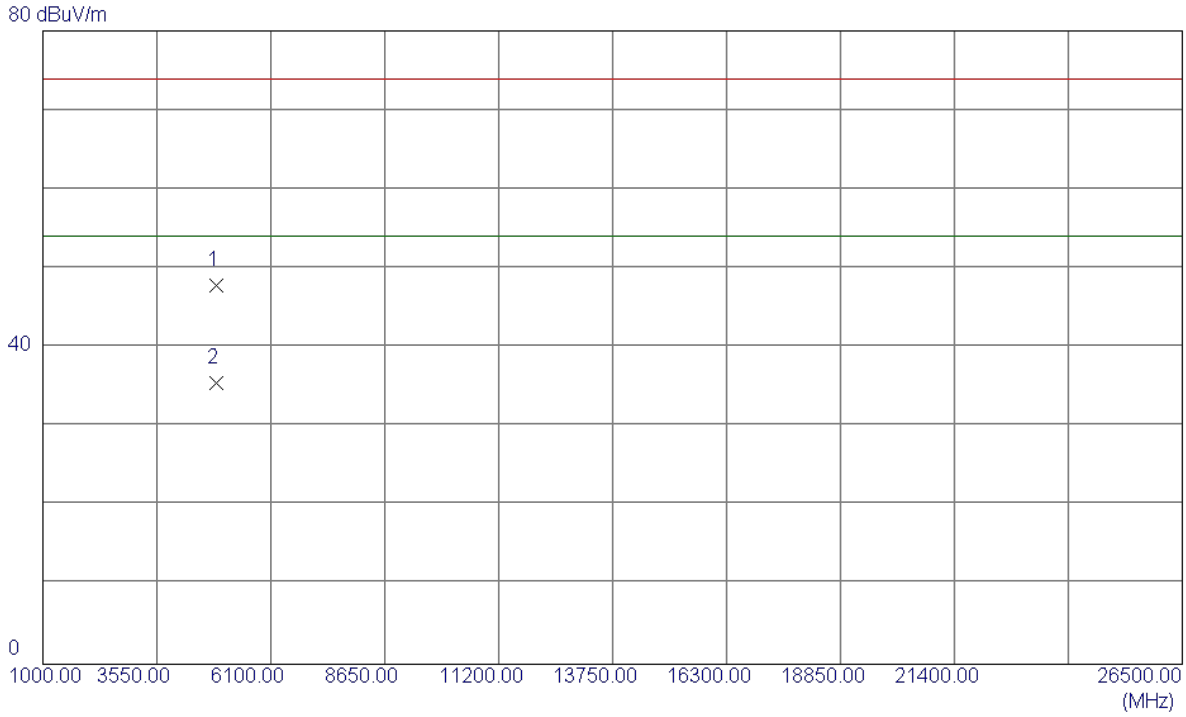
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2444.3000	60.79	32.75	93.54	74.00	19.54	Peak	No Limit
2	2444.4000	51.59	32.75	84.34	54.00	30.34	AVG	No Limit

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

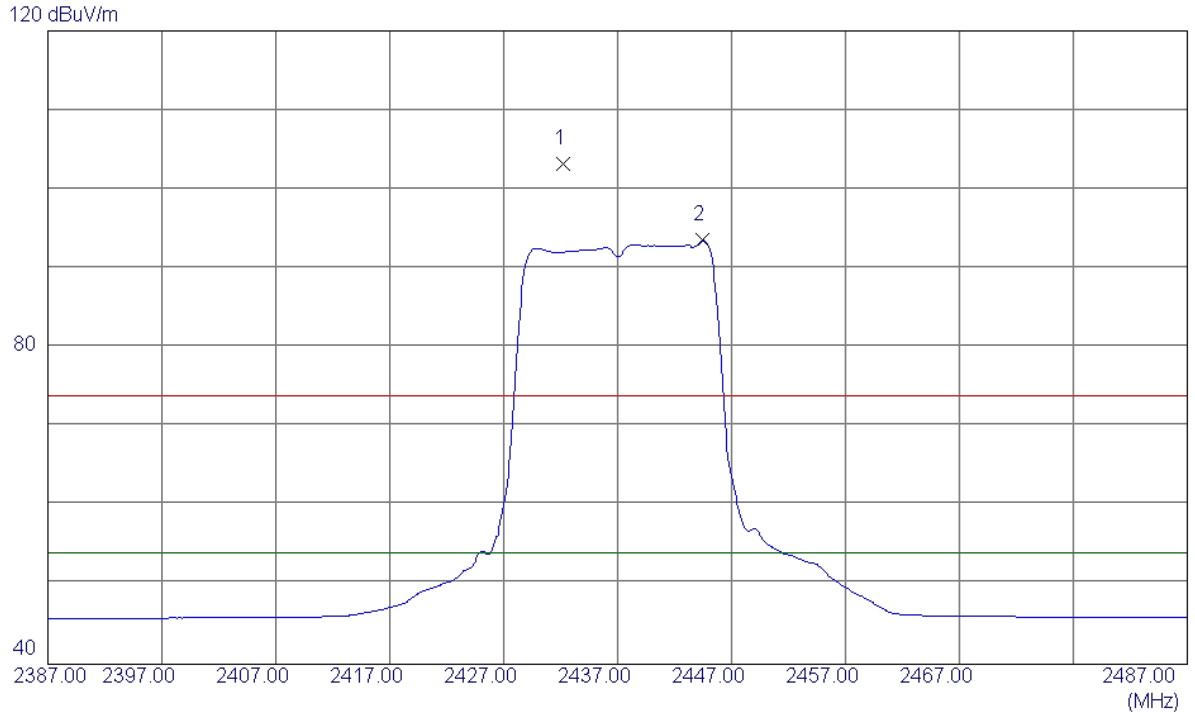
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.8700	41.79	6.00	47.79	74.00	-26.21	Peak	
2	4874.5000	29.49	6.00	35.49	54.00	-18.51	AVG	

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

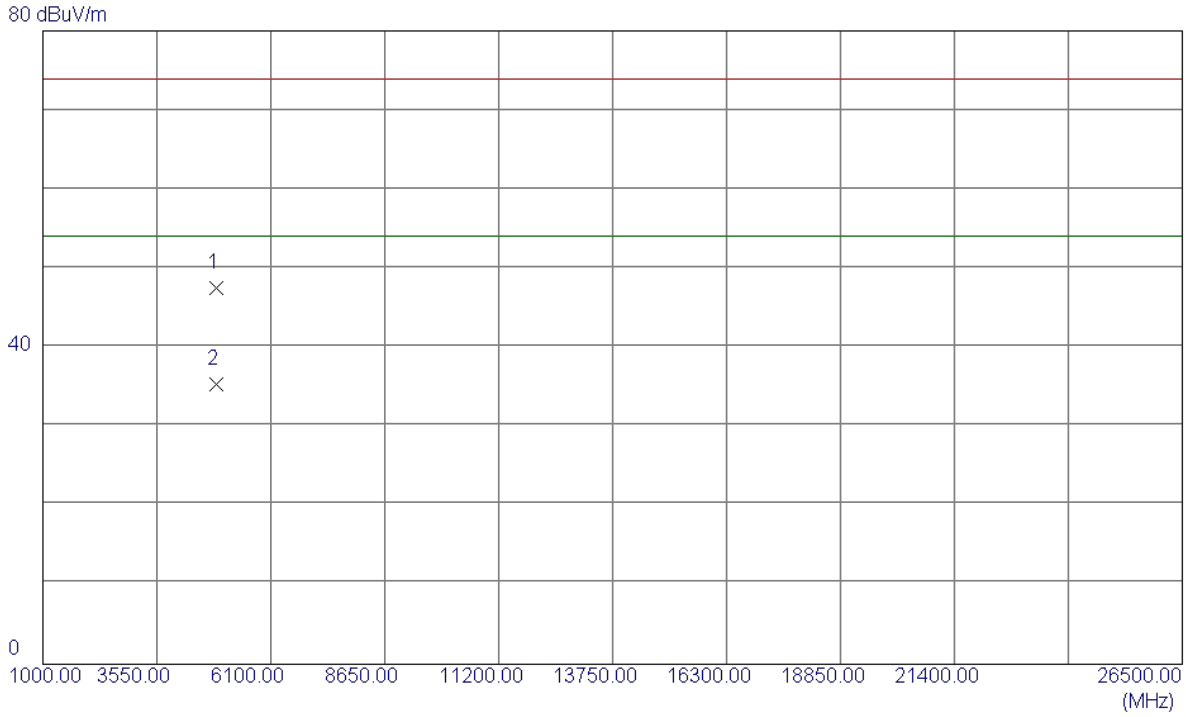
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2432.2000	70.50	32.74	103.24	74.00	29.24	Peak	No Limit
2	2444.4000	60.81	32.75	93.56	54.00	39.56	AVG	No Limit

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

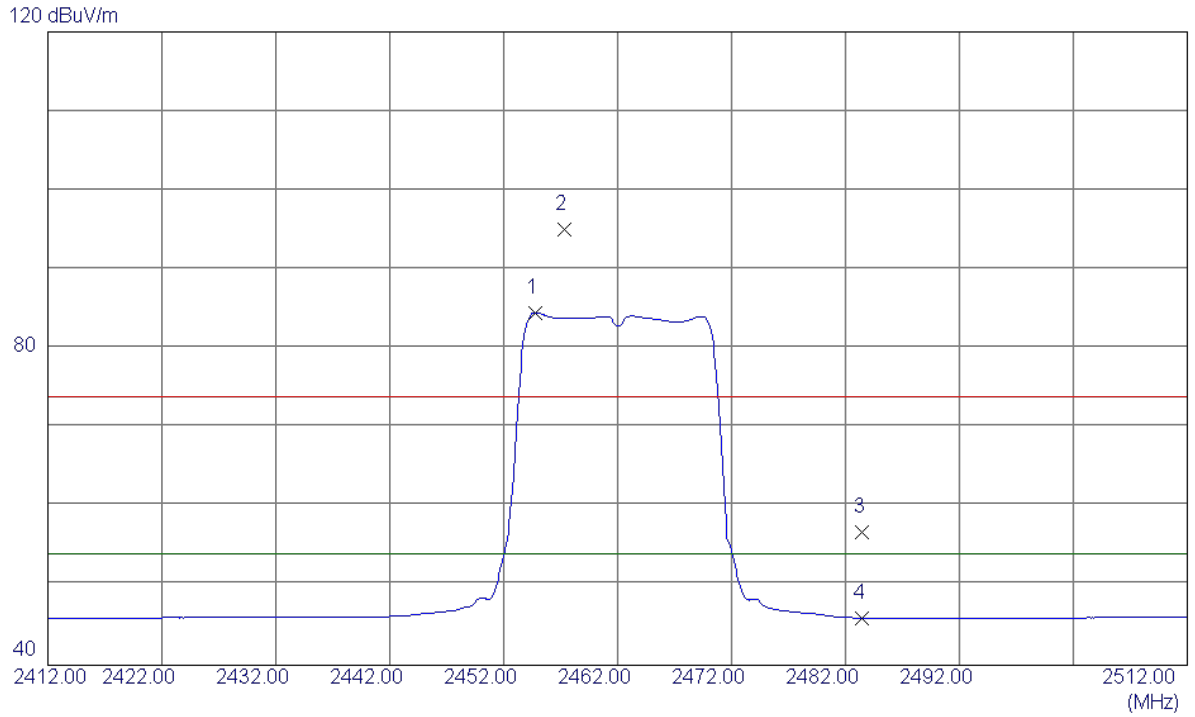
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4872.6700	41.51	6.00	47.51	74.00	-26.49	Peak	
2	4873.6400	29.38	6.00	35.38	54.00	-18.62	AVG	

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

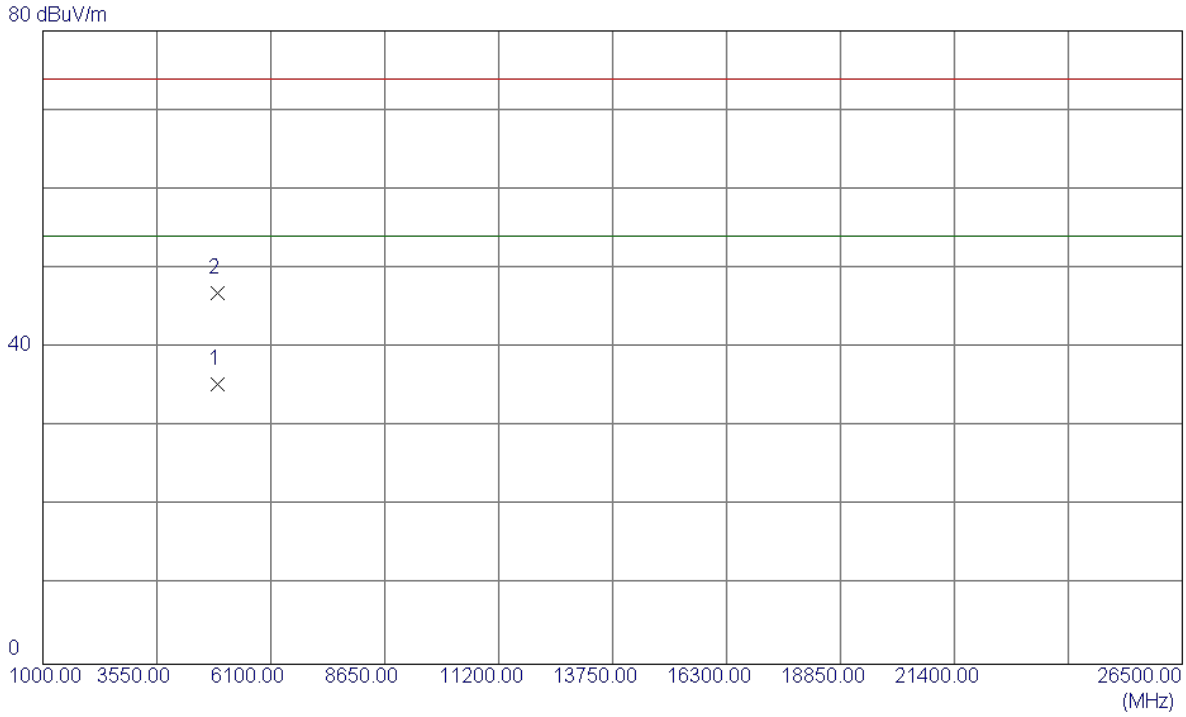
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2454.8000	51.77	32.77	84.54	54.00	30.54	AVG	No Limit
2	2457.3000	62.26	32.77	95.03	74.00	21.03	Peak	No Limit
3	2483.5000	23.97	32.81	56.78	74.00	-17.22	Peak	
4	2483.5000	13.14	32.81	45.95	54.00	-8.05	AVG	

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

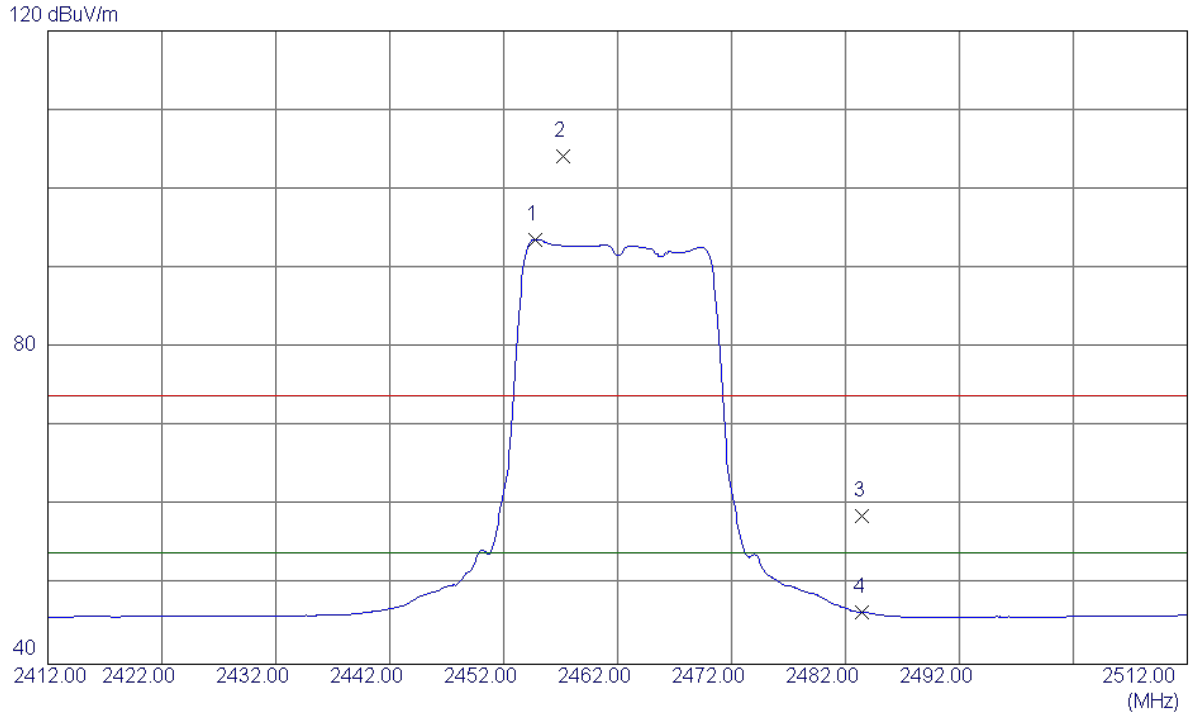
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9400	29.20	6.14	35.34	54.00	-18.66	AVG	
2	4924.1600	40.73	6.14	46.87	74.00	-27.13	Peak	

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

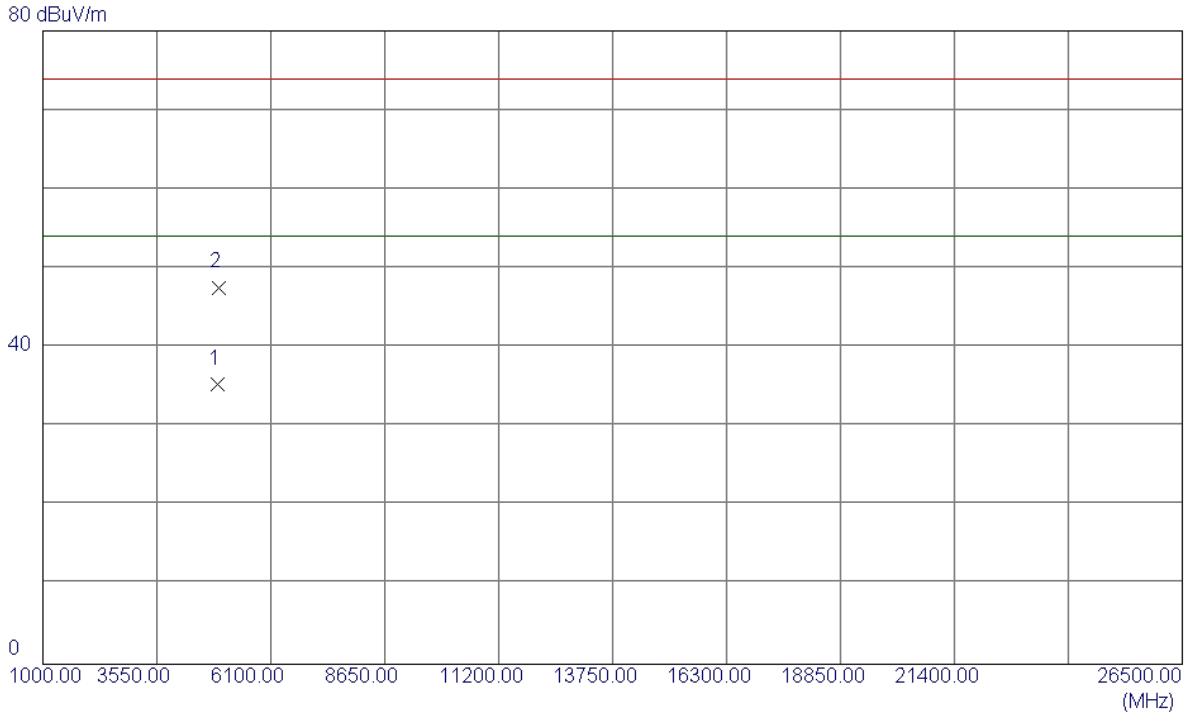
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2454.8000	60.90	32.77	93.67	54.00	39.67	AVG	No Limit
2	2457.2000	71.35	32.77	104.12	74.00	30.12	Peak	No Limit
3	2483.5000	25.89	32.81	58.70	74.00	-15.30	Peak	
4	2483.5000	13.81	32.81	46.62	54.00	-7.38	AVG	

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

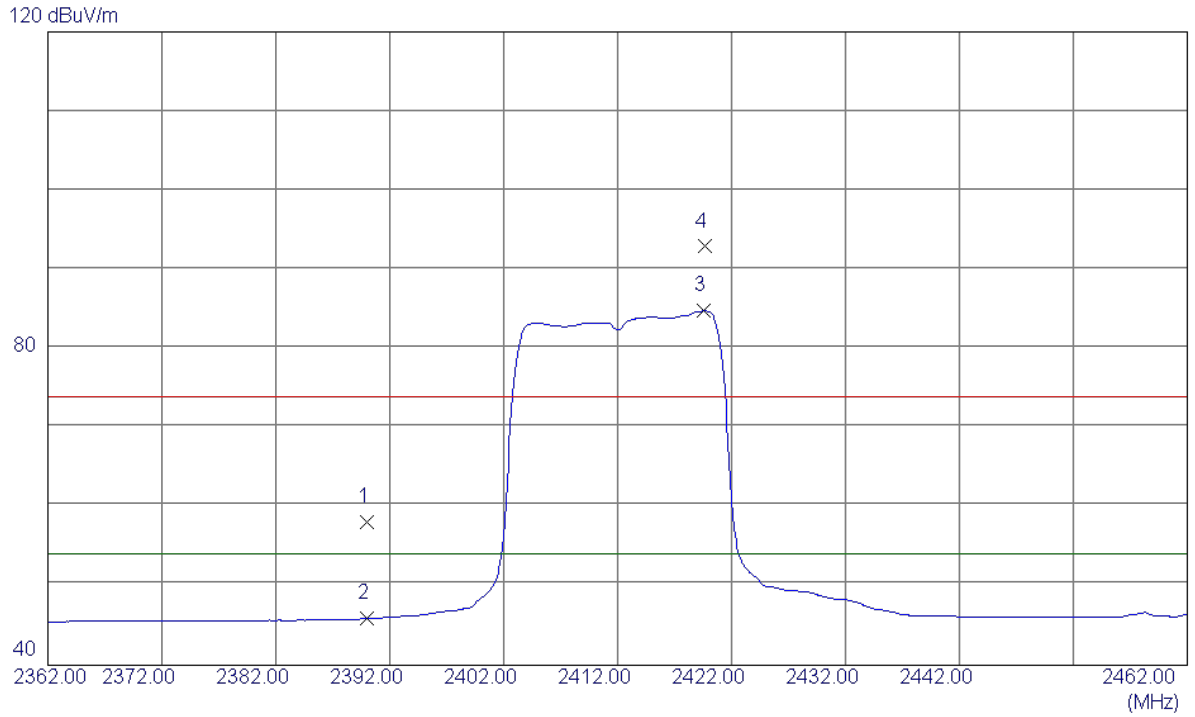
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0400	29.25	6.14	35.39	54.00	-18.61	AVG	
2	4925.0800	41.46	6.14	47.60	74.00	-26.40	Peak	

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

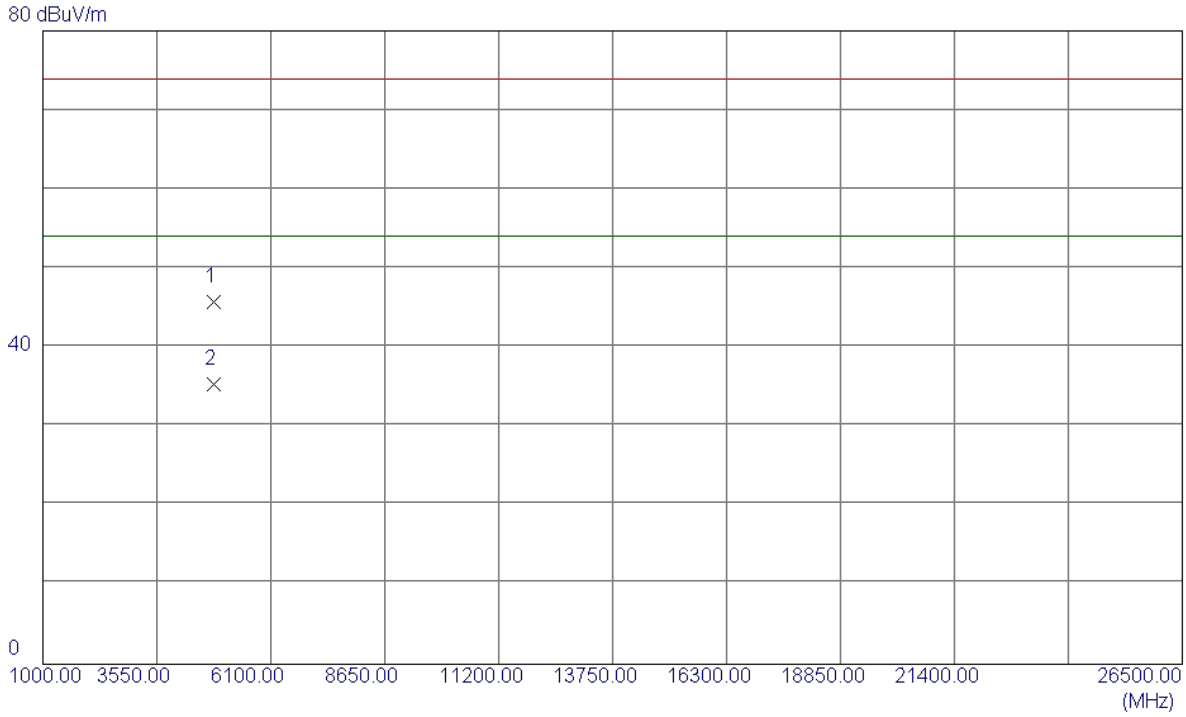
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25.42	32.68	58.10	74.00	-15.90	Peak	
2	2390.0000	13.20	32.68	45.88	54.00	-8.12	AVG	
3	2419.6000	52.03	32.72	84.75	54.00	30.75	AVG	No Limit
4	2419.7000	60.16	32.72	92.88	74.00	18.88	Peak	No Limit

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

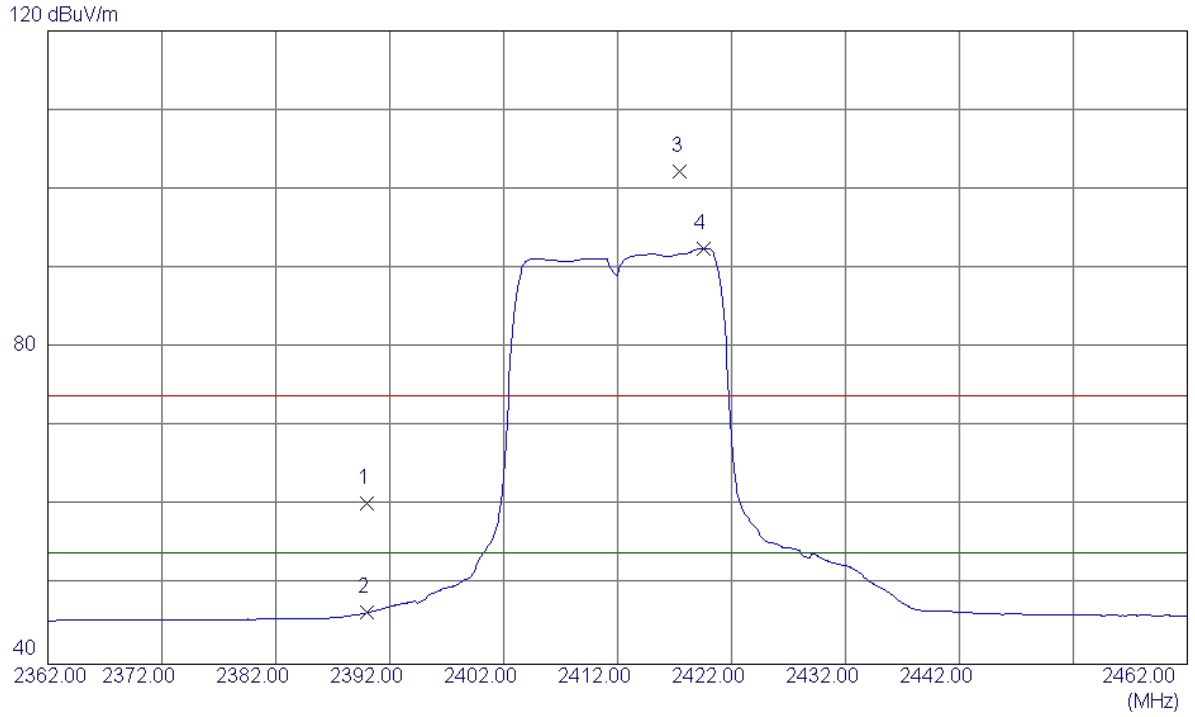
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0700	39.96	5.87	45.83	74.00	-28.17	Peak	
2	4824.2500	29.47	5.87	35.34	54.00	-18.66	AVG	

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

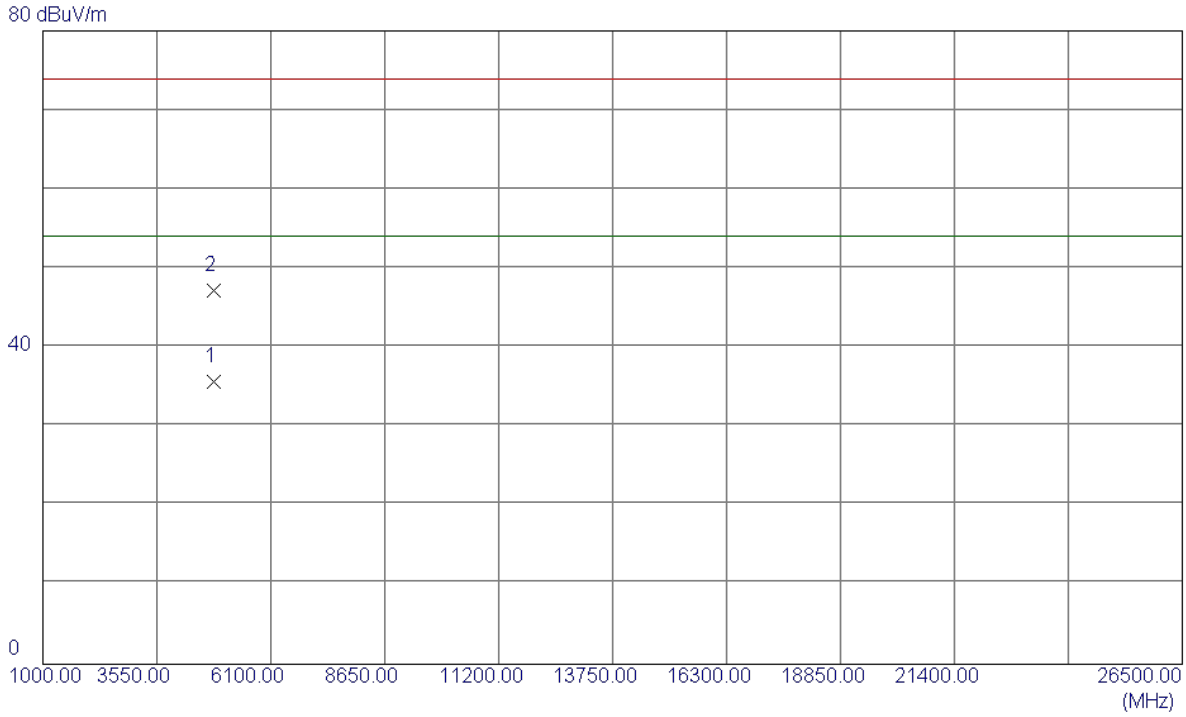
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	27.68	32.68	60.36	74.00	-13.64	Peak	
2	2390.0000	13.82	32.68	46.50	54.00	-7.50	AVG	
3	2417.5000	69.53	32.72	102.25	74.00	28.25	Peak	No Limit
4	2419.6000	59.80	32.72	92.52	54.00	38.52	AVG	No Limit

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

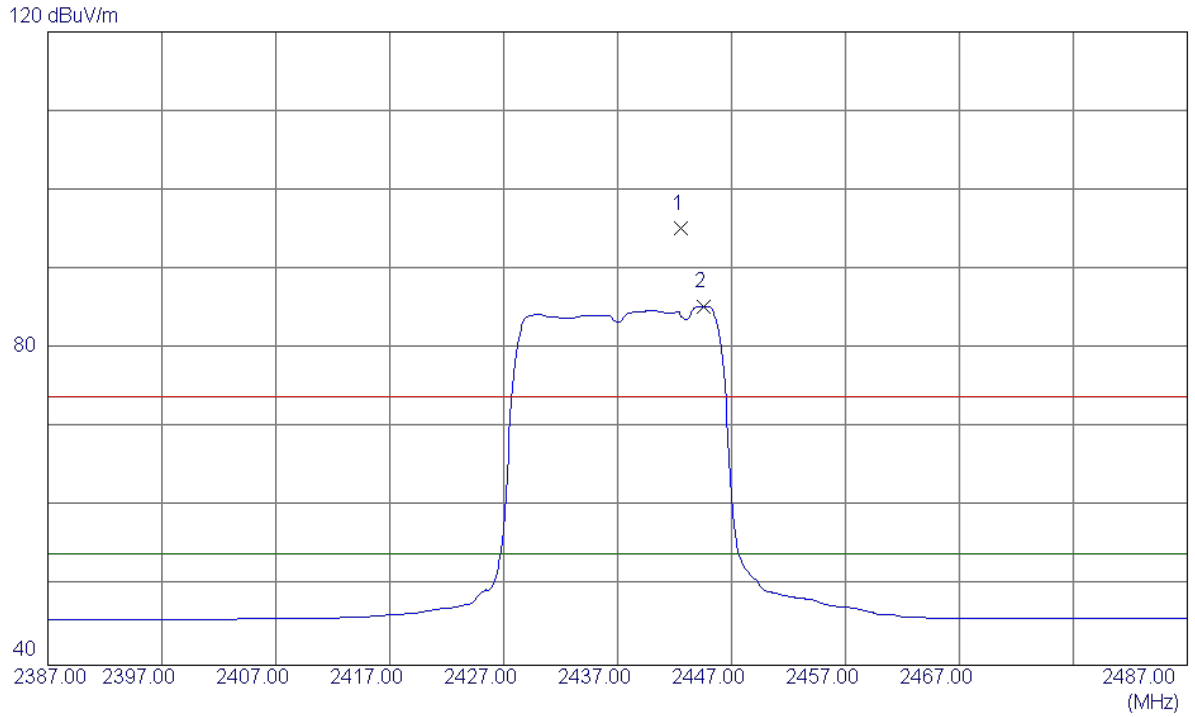
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.2200	29.74	5.87	35.61	54.00	-18.39	AVG	
2	4824.5099	41.36	5.87	47.23	74.00	-26.77	Peak	

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

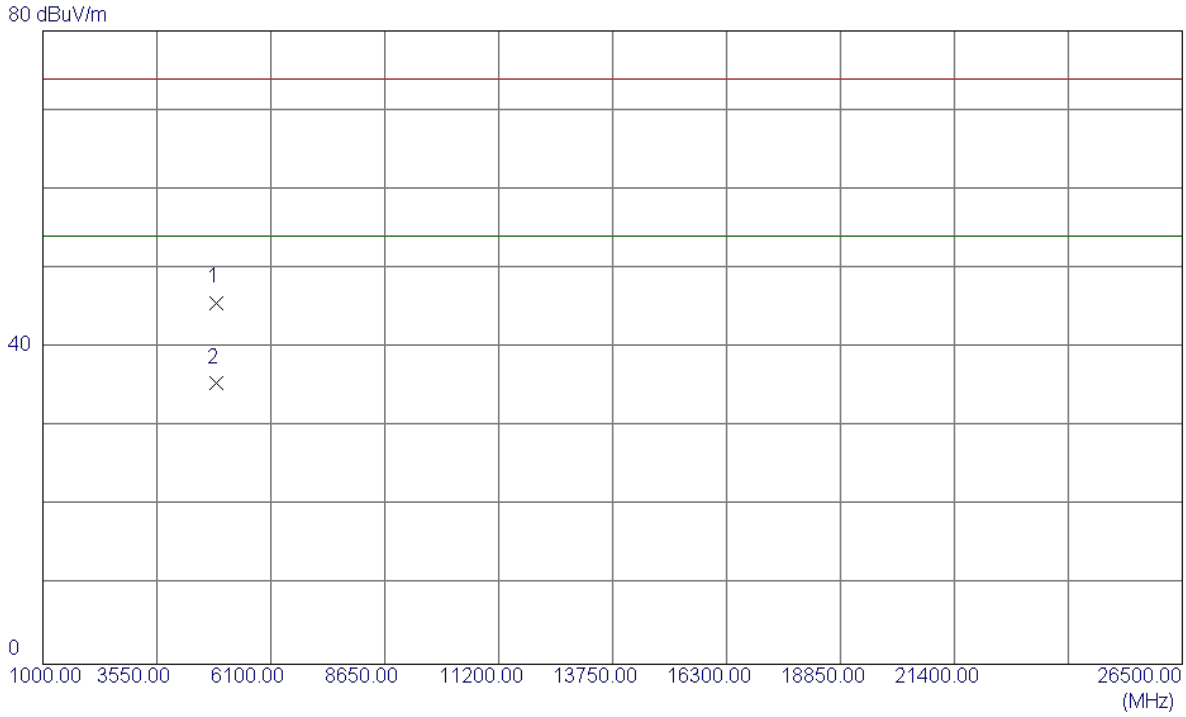
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2442.6000	62.37	32.75	95.12	74.00	21.12	Peak	No Limit
2	2444.6000	52.58	32.75	85.33	54.00	31.33	AVG	No Limit

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

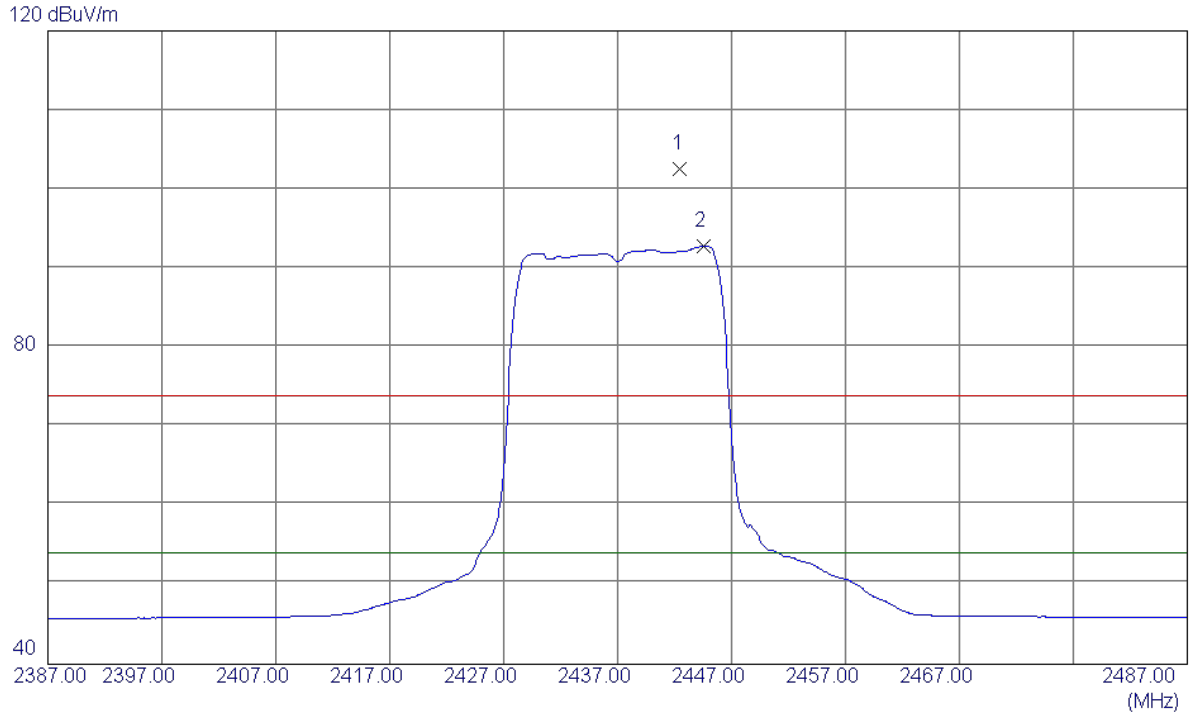
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.3600	39.68	6.00	45.68	74.00	-28.32	Peak	
2	4874.6000	29.52	6.01	35.53	54.00	-18.47	AVG	

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

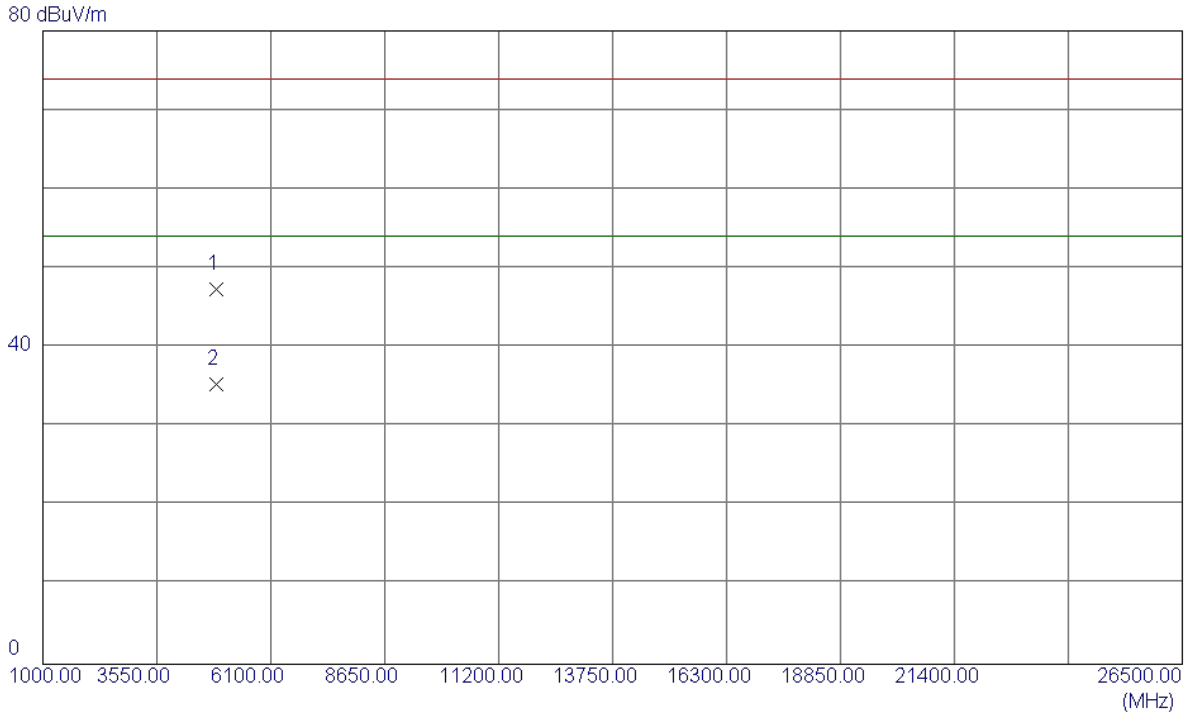
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2442.5000	69.74	32.75	102.49	74.00	28.49	Peak	No Limit
2	2444.6000	60.05	32.75	92.80	54.00	38.80	AVG	No Limit

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

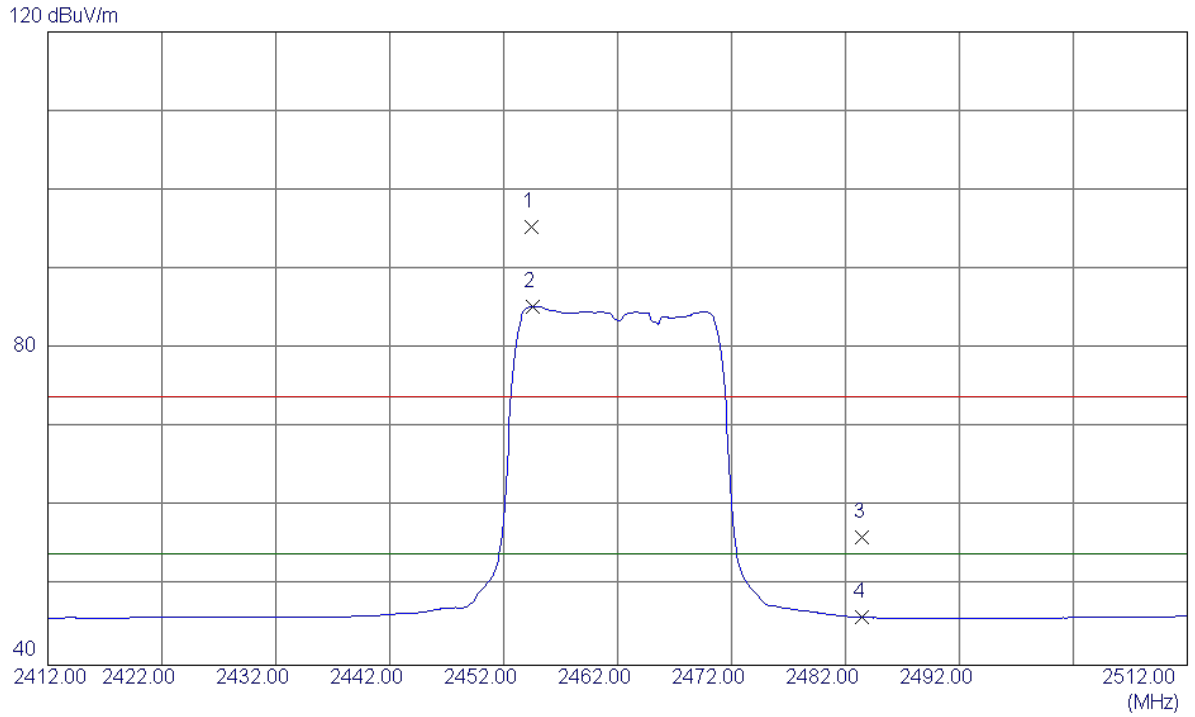
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0400	41.31	6.00	47.31	74.00	-26.69	Peak	
2	4874.1000	29.36	6.00	35.36	54.00	-18.64	AVG	

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

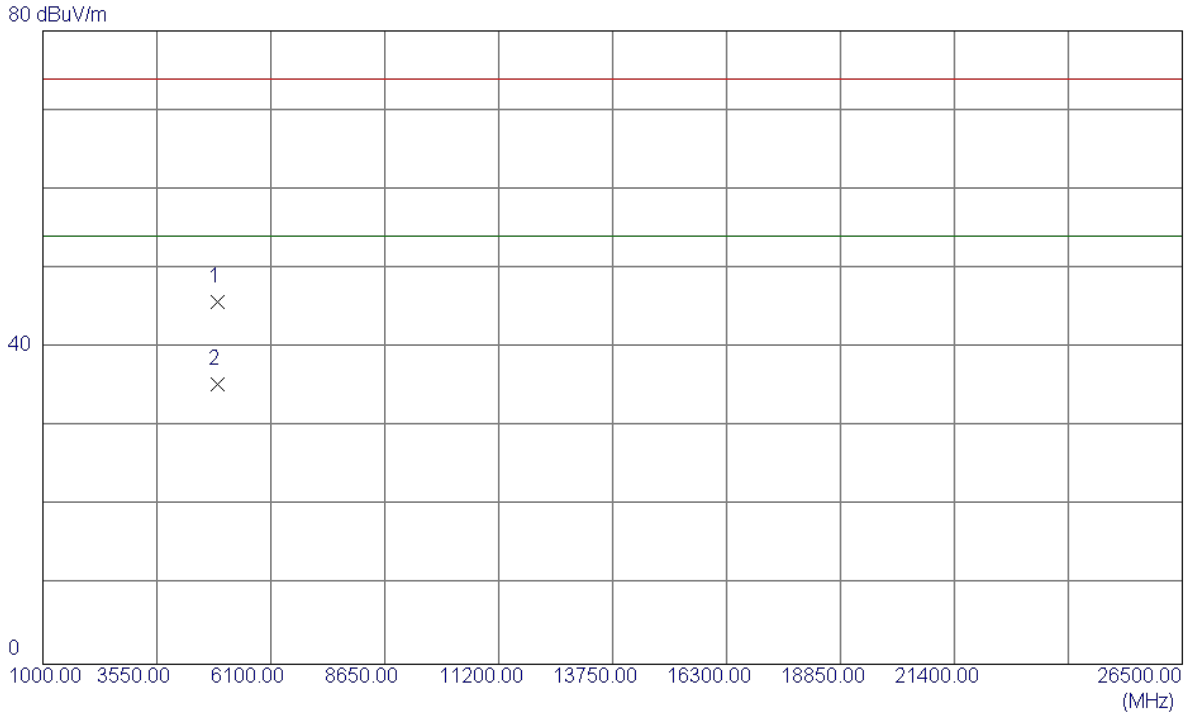
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2454.4000	62.54	32.77	95.31	74.00	21.31	Peak	No Limit
2	2454.6000	52.55	32.77	85.32	54.00	31.32	AVG	No Limit
3	2483.5000	23.39	32.81	56.20	74.00	-17.80	Peak	
4	2483.5000	13.26	32.81	46.07	54.00	-7.93	AVG	

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

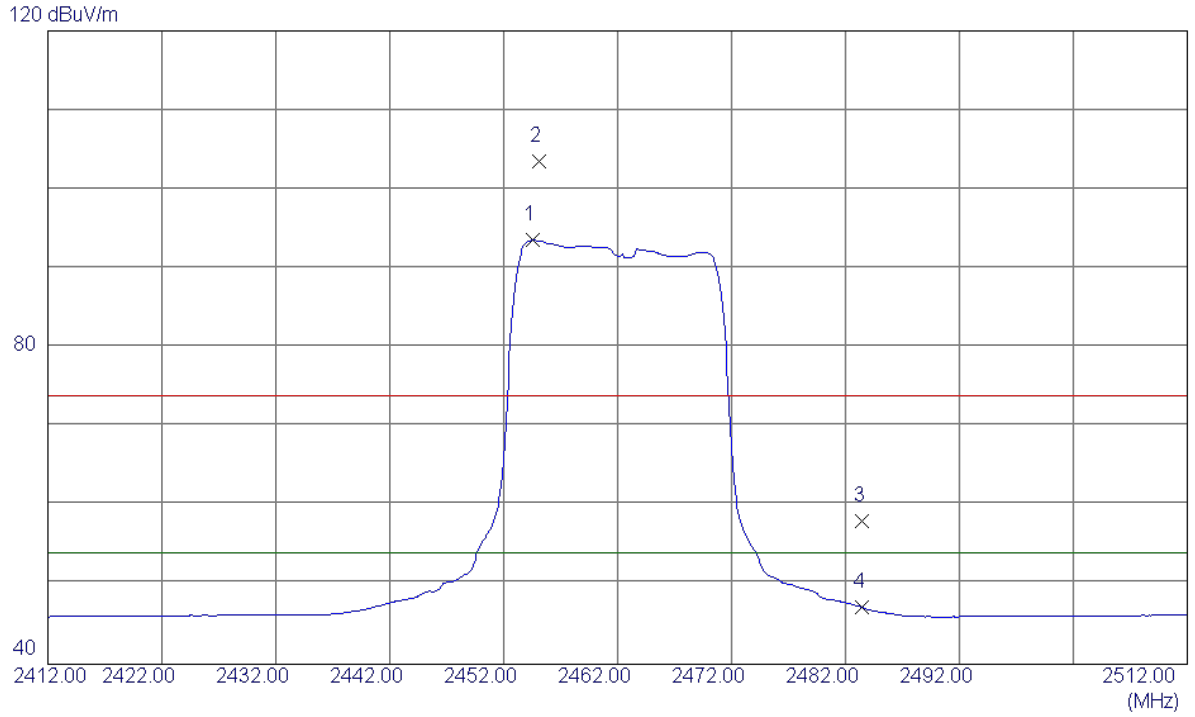
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.8800	39.60	6.14	45.74	74.00	-28.26	Peak	
2	4923.8800	29.19	6.14	35.33	54.00	-18.67	AVG	

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

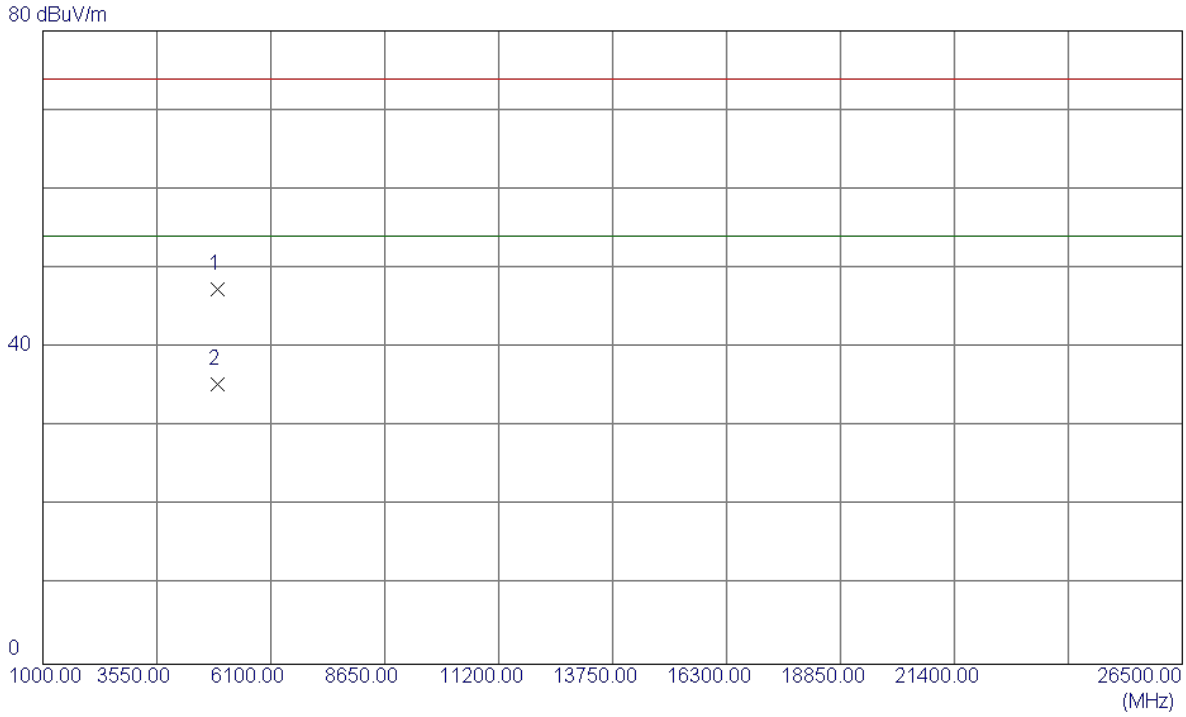
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2454.6000	60.76	32.77	93.53	54.00	39.53	AVG	No Limit
2	2455.1000	70.83	32.77	103.60	74.00	29.60	Peak	No Limit
3	2483.5000	25.33	32.81	58.14	74.00	-15.86	Peak	
4	2483.5000	14.32	32.81	47.13	54.00	-6.87	AVG	

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

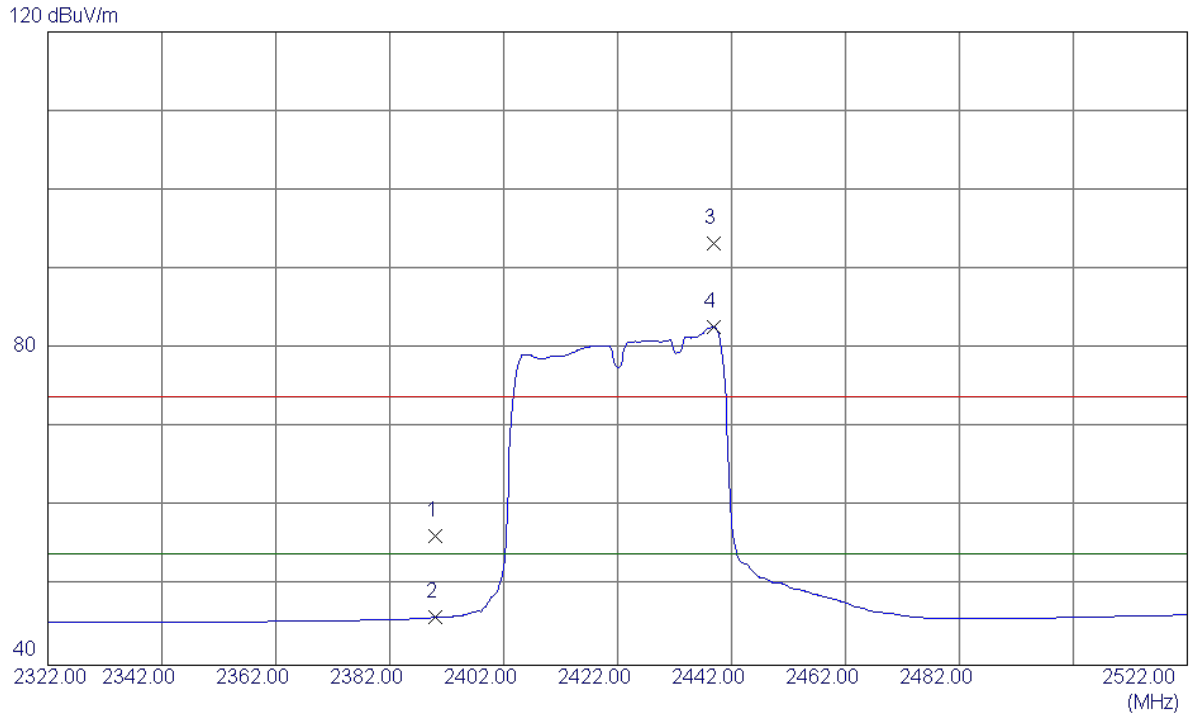
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9800	41.17	6.14	47.31	74.00	-26.69	Peak	
2	4924.0800	29.22	6.14	35.36	54.00	-18.64	AVG	

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

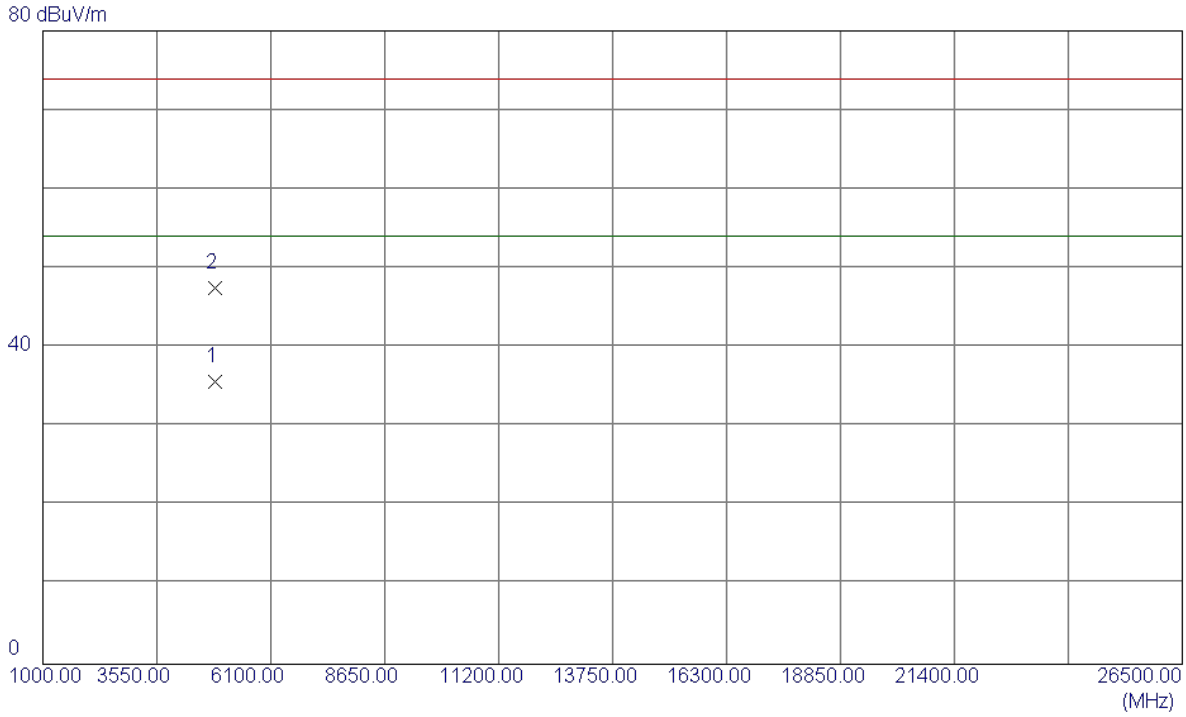
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23.68	32.68	56.36	74.00	-17.64	Peak	
2	2390.0000	13.36	32.68	46.04	54.00	-7.96	AVG	
3	2438.8000	60.51	32.75	93.26	74.00	19.26	Peak	No Limit
4	2438.8000	50.03	32.75	82.78	54.00	28.78	AVG	No Limit

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

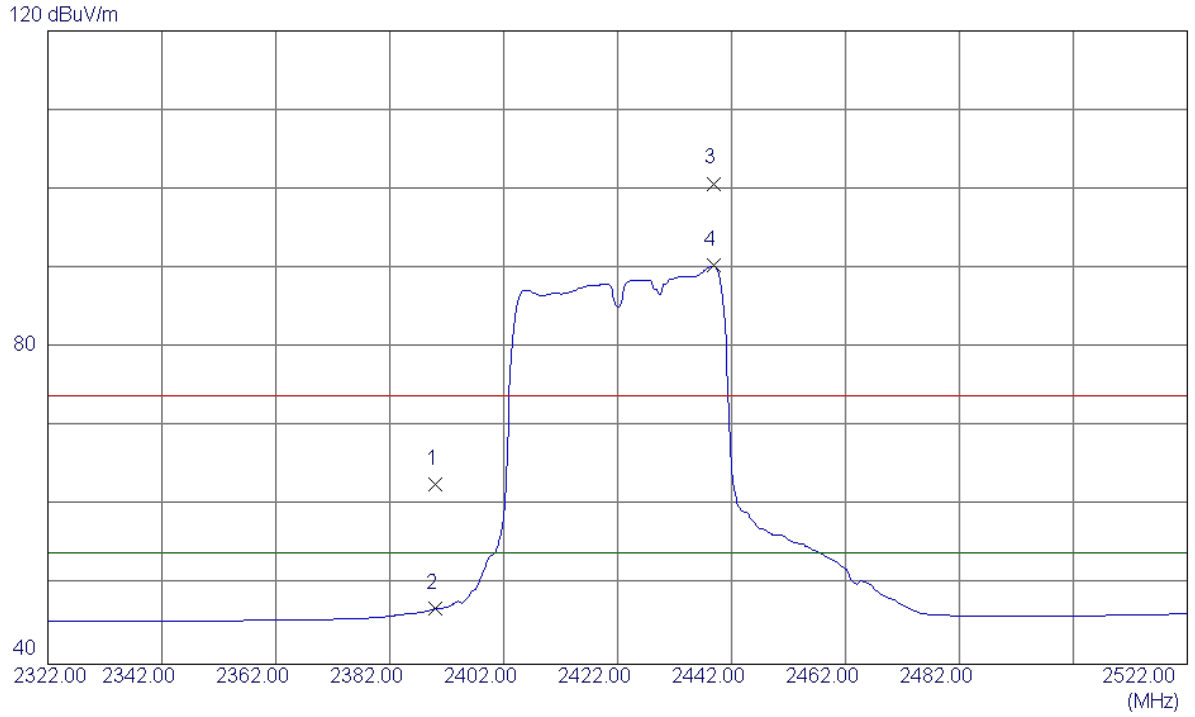
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4844.0000	29.84	5.92	35.76	54.00	-18.24	AVG	
2	4844.7700	41.57	5.93	47.50	74.00	-26.50	Peak	

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

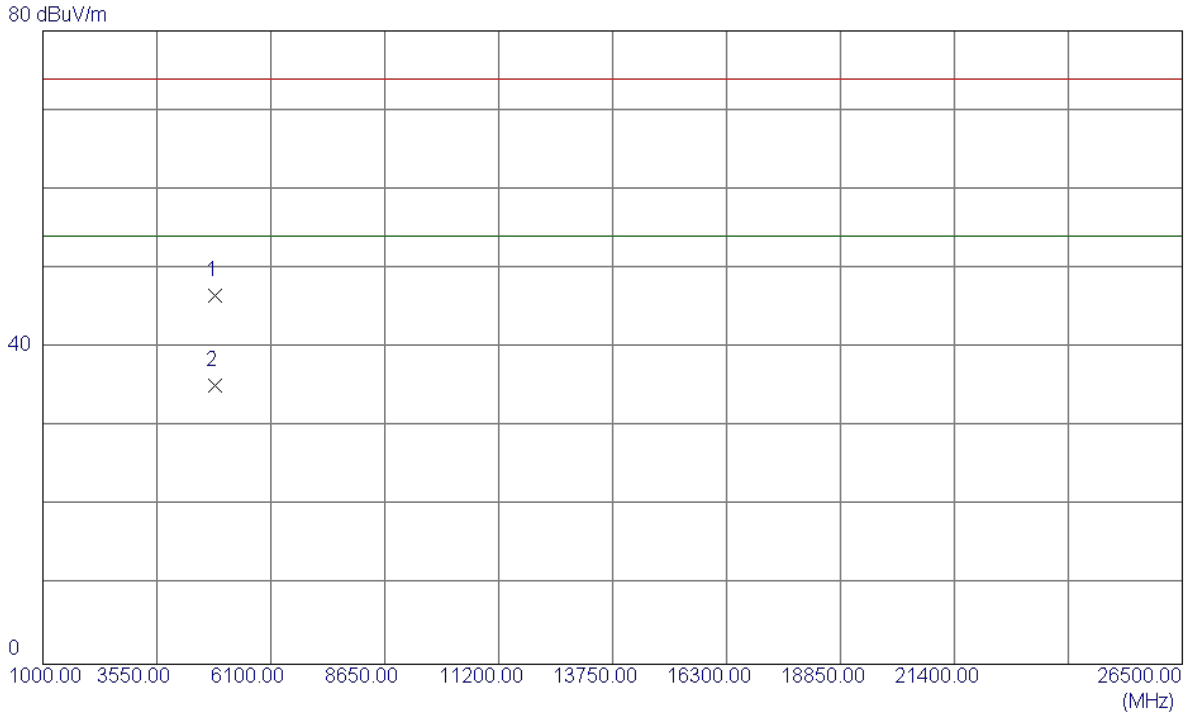
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	30.02	32.68	62.70	74.00	-11.30	Peak	
2	2390.0000	14.32	32.68	47.00	54.00	-7.00	AVG	
3	2438.8000	67.97	32.75	100.72	74.00	26.72	Peak	No Limit
4	2438.8000	57.59	32.75	90.34	54.00	36.34	AVG	No Limit

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

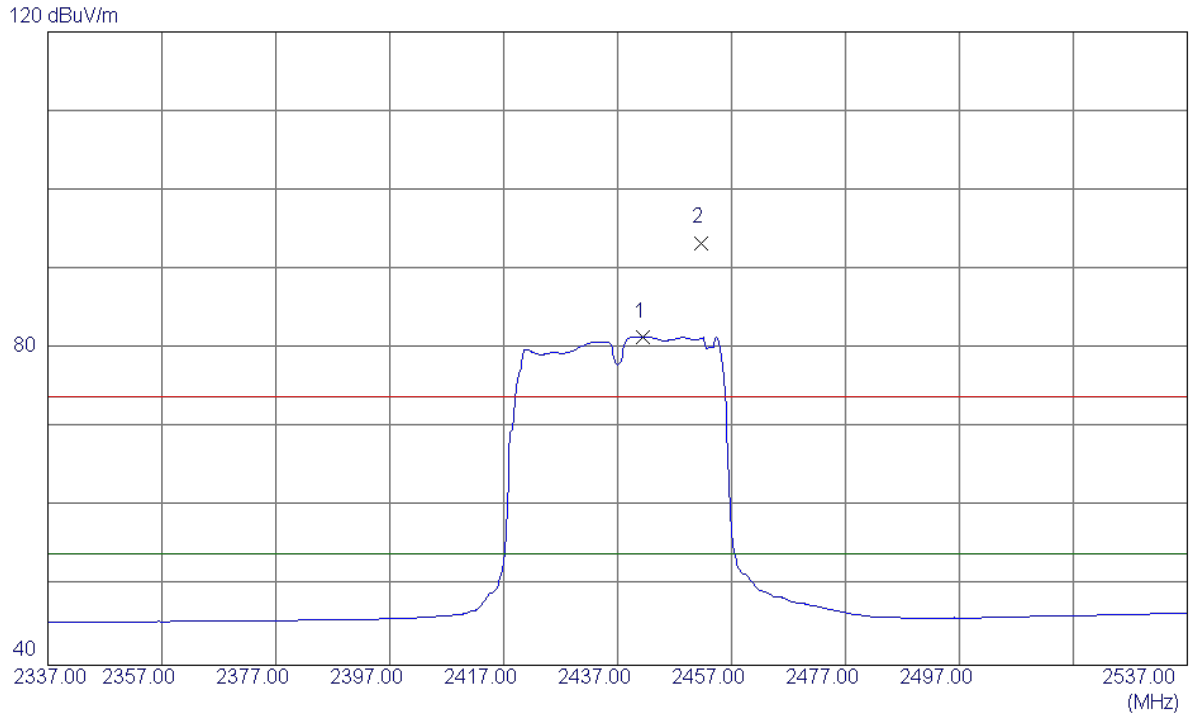
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.1100	40.67	5.92	46.59	74.00	-27.41	Peak	
2	4844.0600	29.34	5.92	35.26	54.00	-18.74	AVG	

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

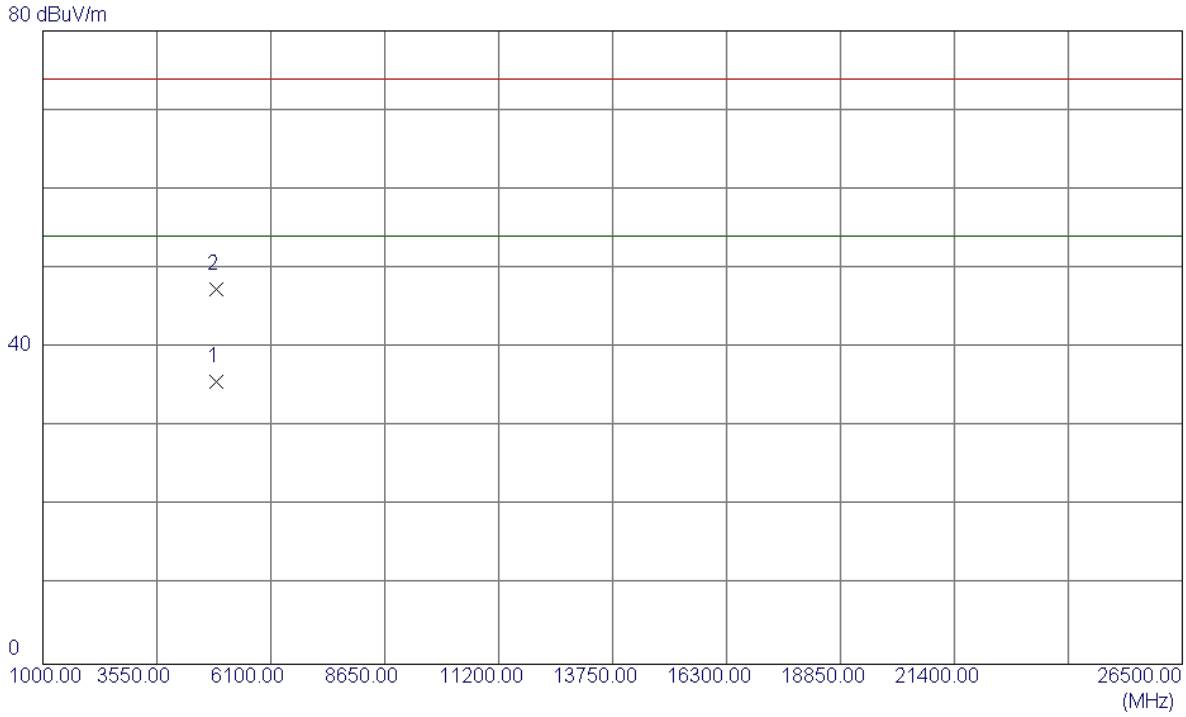
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2441.4000	48.75	32.75	81.50	54.00	27.50	AVG	No Limit
2	2451.6000	60.60	32.76	93.36	74.00	19.36	Peak	No Limit

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

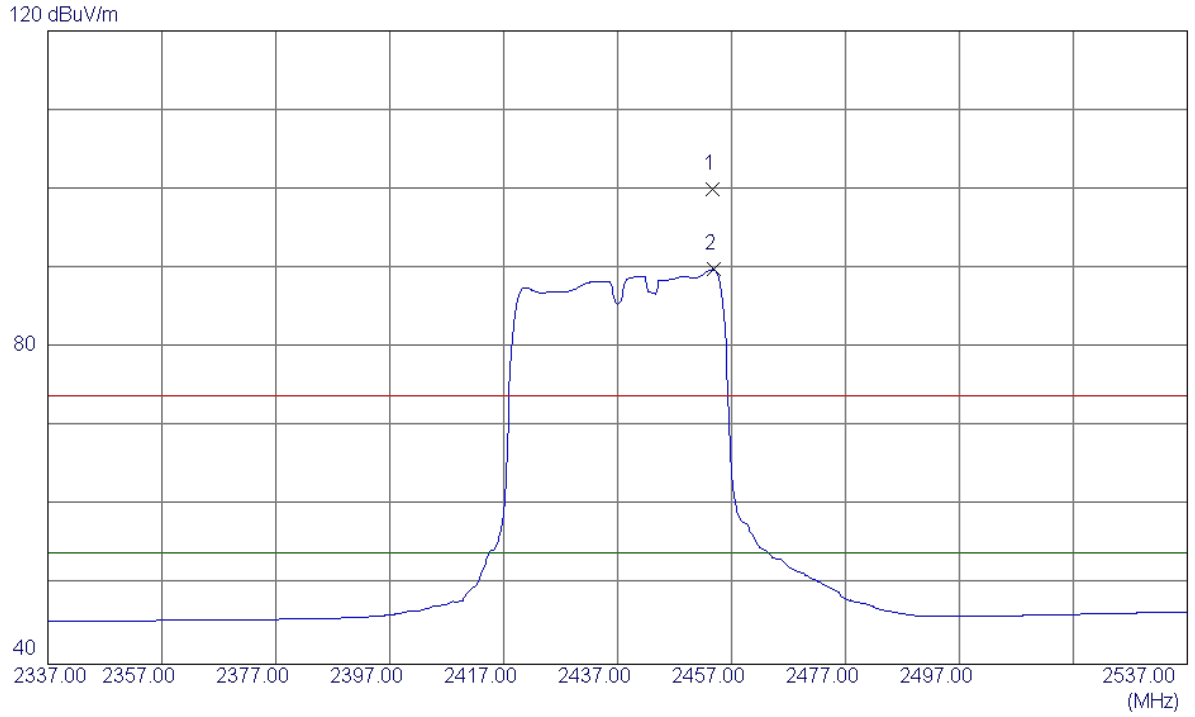
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.1700	29.76	6.00	35.76	54.00	-18.24	AVG	
2	4874.3600	41.34	6.00	47.34	74.00	-26.66	Peak	

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

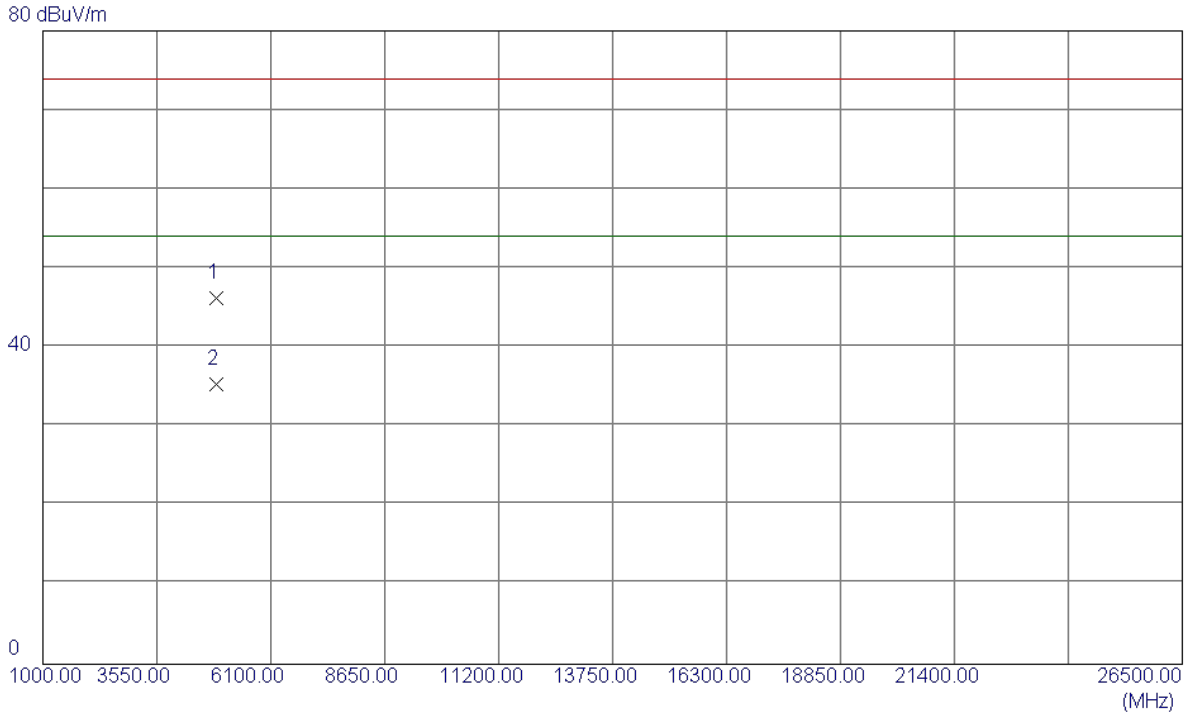
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2453.6000	67.17	32.77	99.94	74.00	25.94	Peak	No Limit
2	2453.8000	57.08	32.77	89.85	54.00	35.85	AVG	No Limit

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

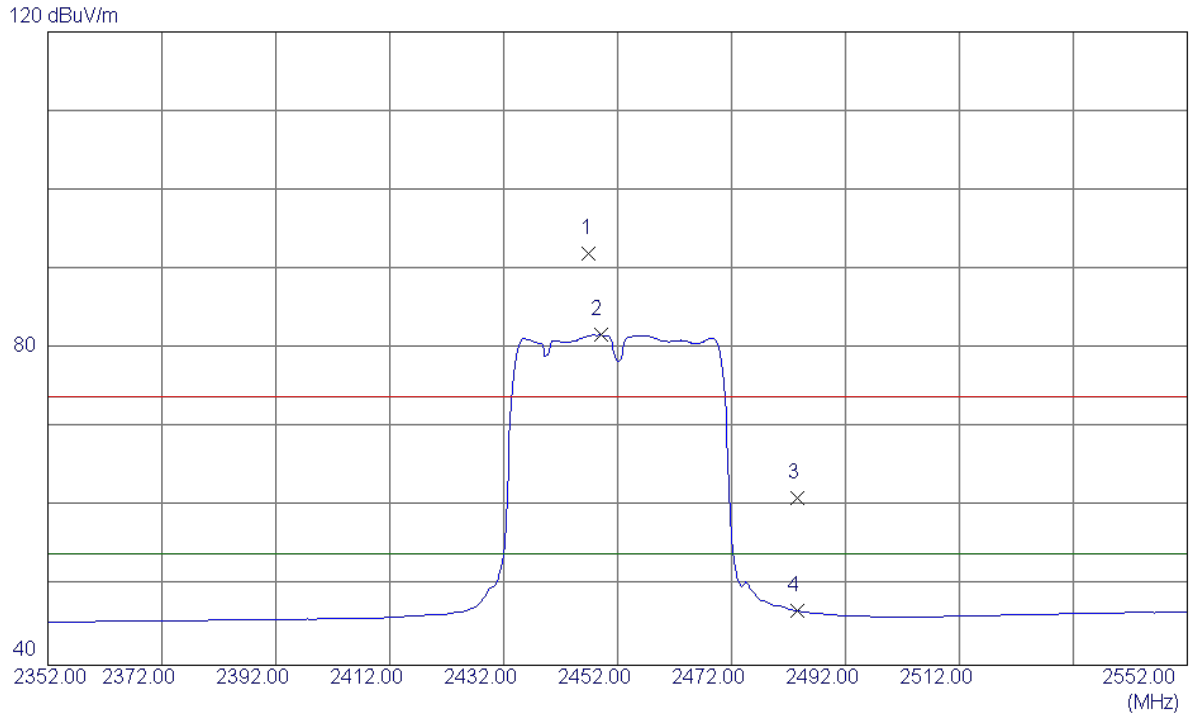
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.2400	40.18	6.00	46.18	74.00	-27.82	Peak	
2	4874.2400	29.38	6.00	35.38	54.00	-18.62	AVG	

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

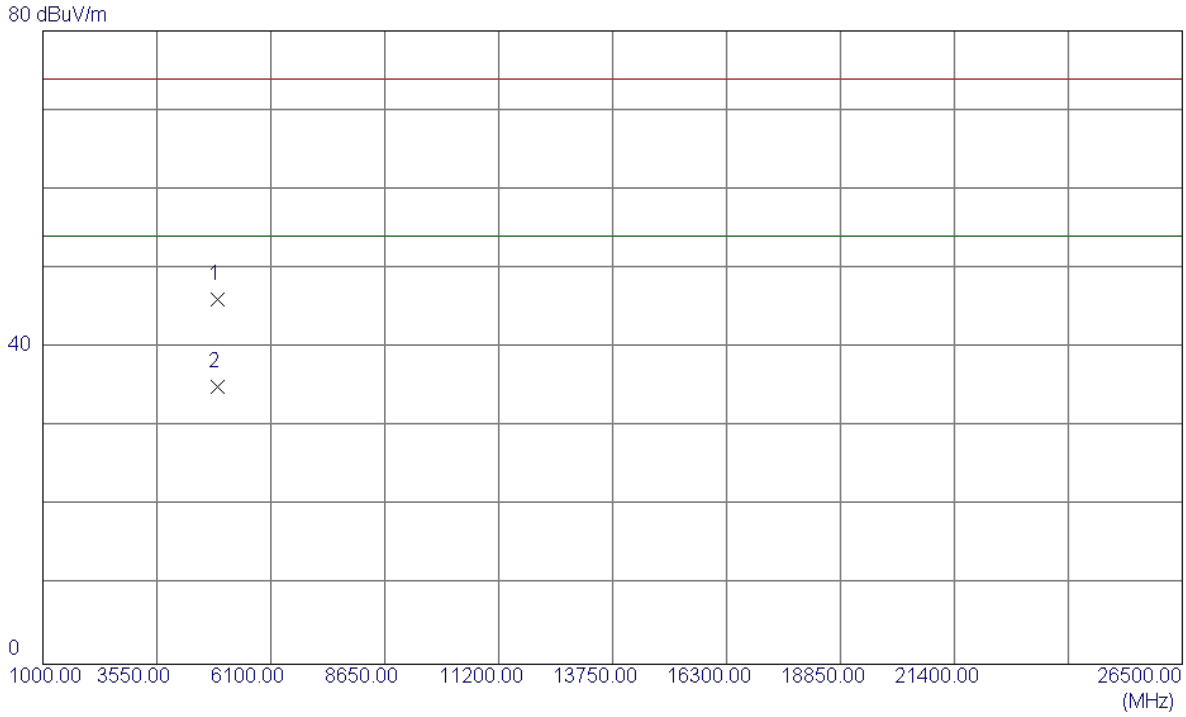
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2447.0000	59.26	32.76	92.02	74.00	18.02	Peak	No Limit
2	2449.0000	48.93	32.76	81.69	54.00	27.69	AVG	No Limit
3	2483.5000	28.37	32.81	61.18	74.00	-12.82	Peak	
4	2483.5000	14.02	32.81	46.83	54.00	-7.17	AVG	

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

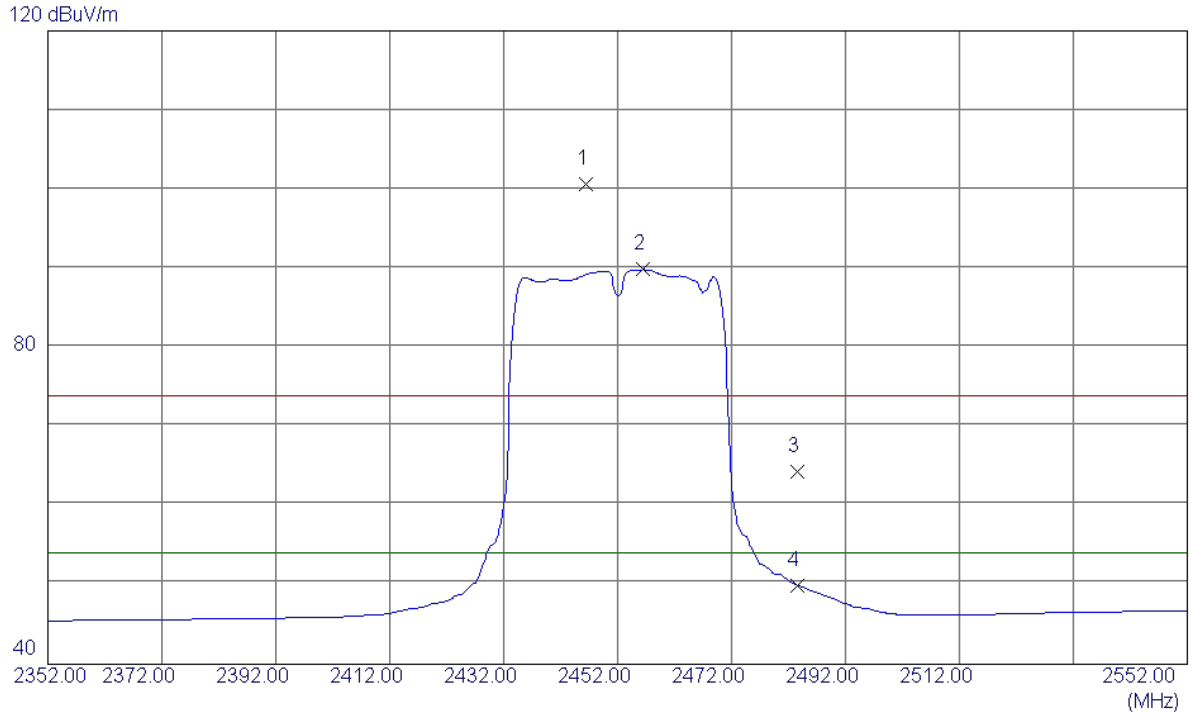
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4903.2000	40.07	6.08	46.15	74.00	-27.85	Peak	
2	4903.7000	29.02	6.08	35.10	54.00	-18.90	AVG	

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

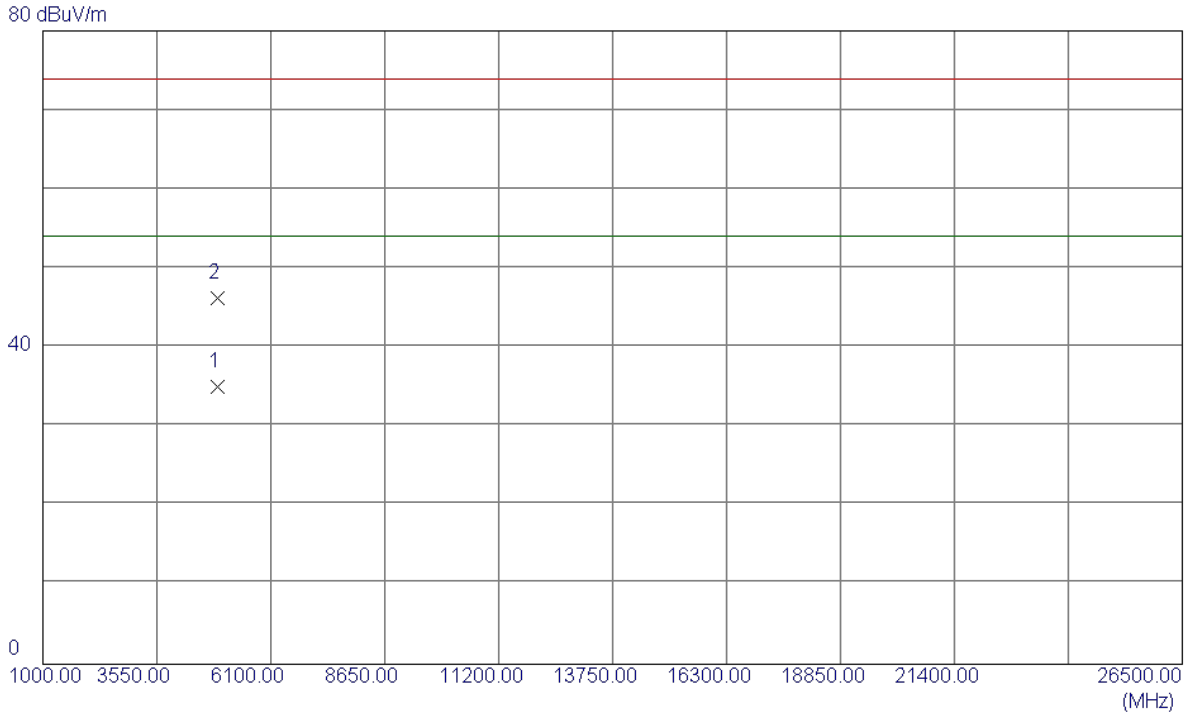
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2446.4000	67.85	32.76	100.61	74.00	26.61	Peak	No Limit
2	2456.4000	57.08	32.77	89.85	54.00	35.85	AVG	No Limit
3	2483.5000	31.55	32.81	64.36	74.00	-9.64	Peak	
4	2483.5000	17.14	32.81	49.95	54.00	-4.05	AVG	

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

Horizontal



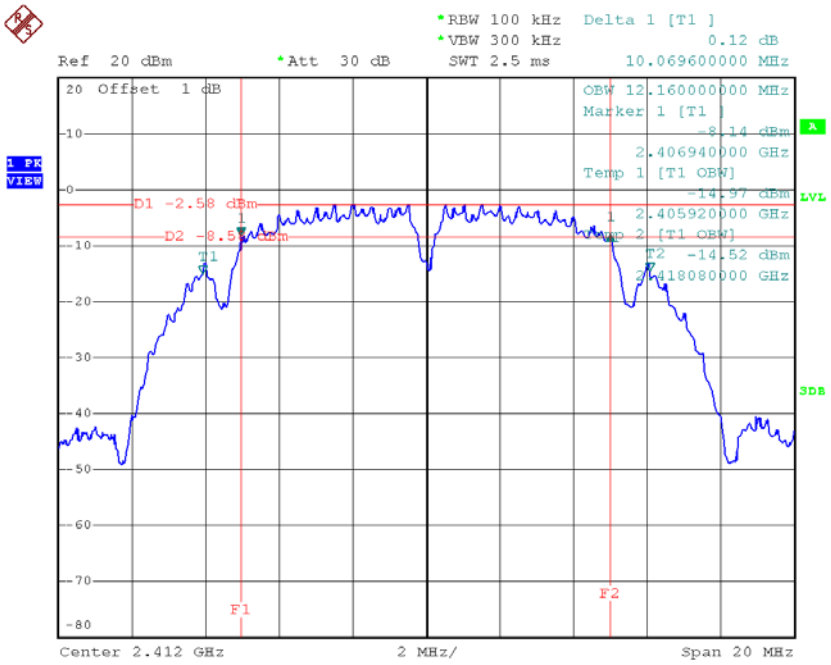
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4904.4000	29.03	6.08	35.11	54.00	-18.89	AVG	
2	4905.4000	40.17	6.09	46.26	74.00	-27.74	Peak	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

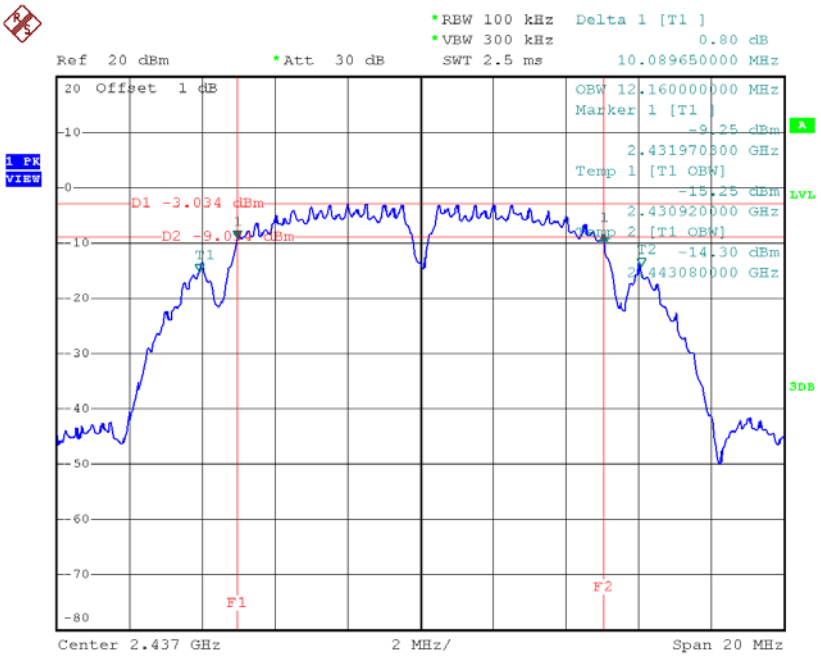
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.07	12.16	500	Complies
2437	10.09	12.16	500	Complies
2462	10.06	12.20	500	Complies

TX CH01



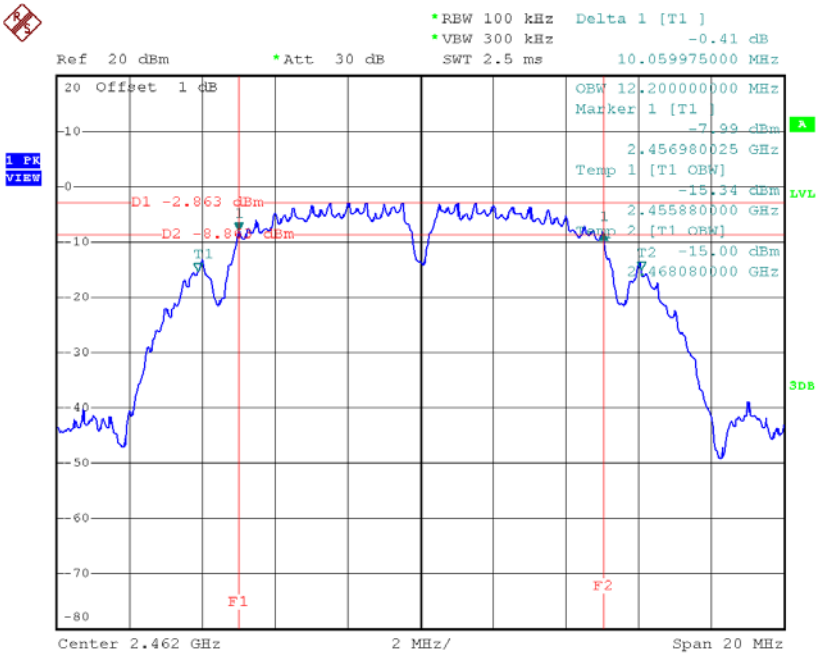
Date: 10.NOV.2015 21:05:51

TX CH06



Date: 10.NOV.2015 21:07:07

TX CH11

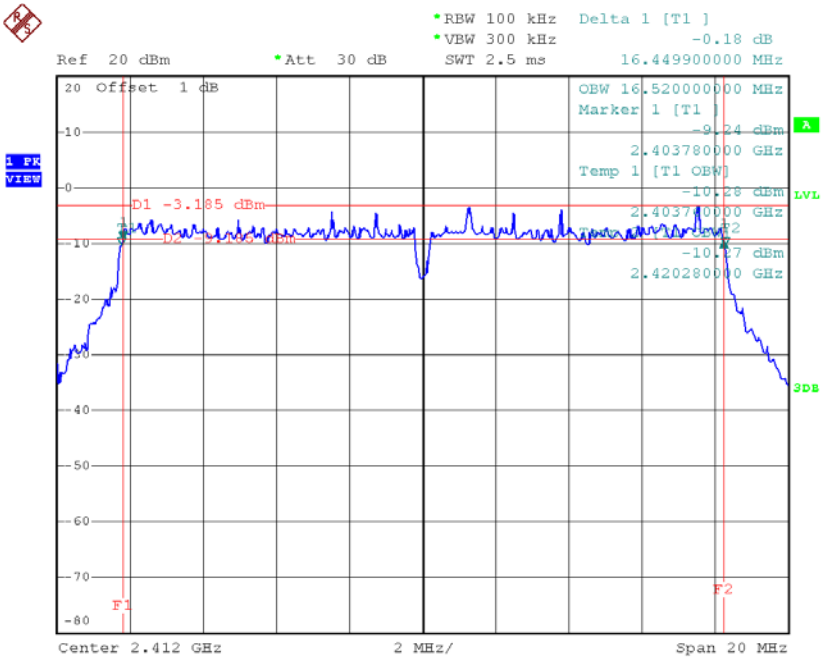


Date: 10.NOV.2015 21:08:20

Test Mode: TX G Mode_CH01/06/11

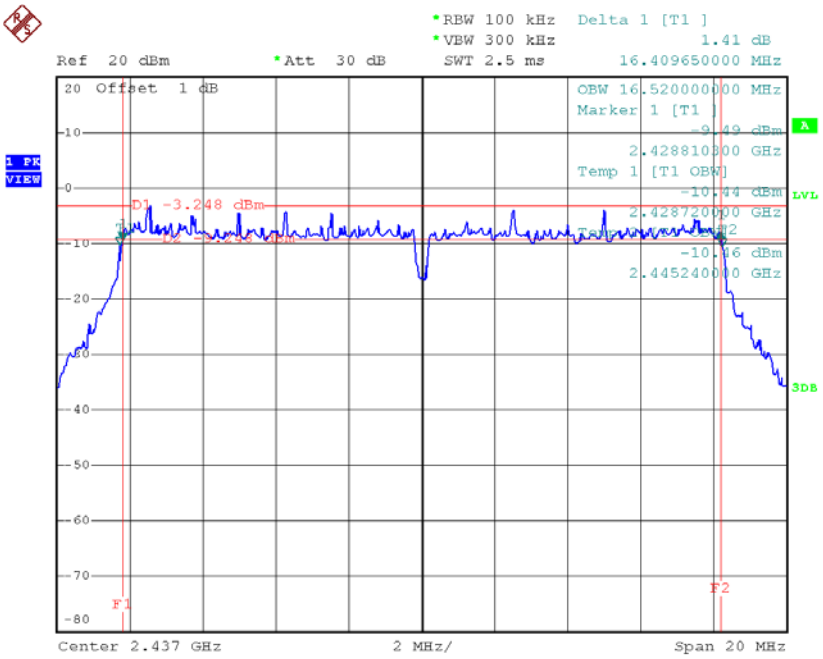
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.45	16.52	500	Complies
2437	16.41	16.52	500	Complies
2462	16.41	16.52	500	Complies

TX CH01



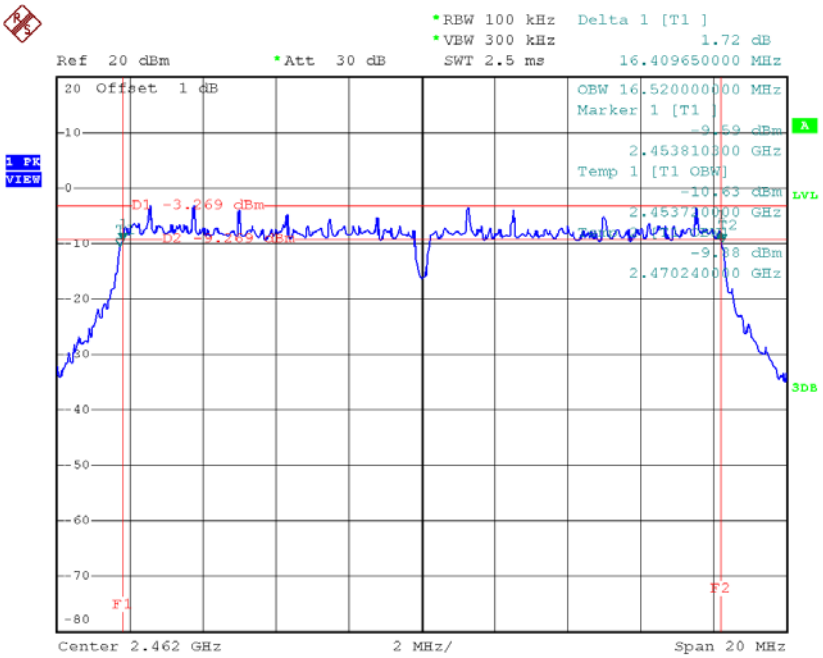
Date: 10.NOV.2015 21:09:32

TX CH06



Date: 10.NOV.2015 21:10:32

TX CH11

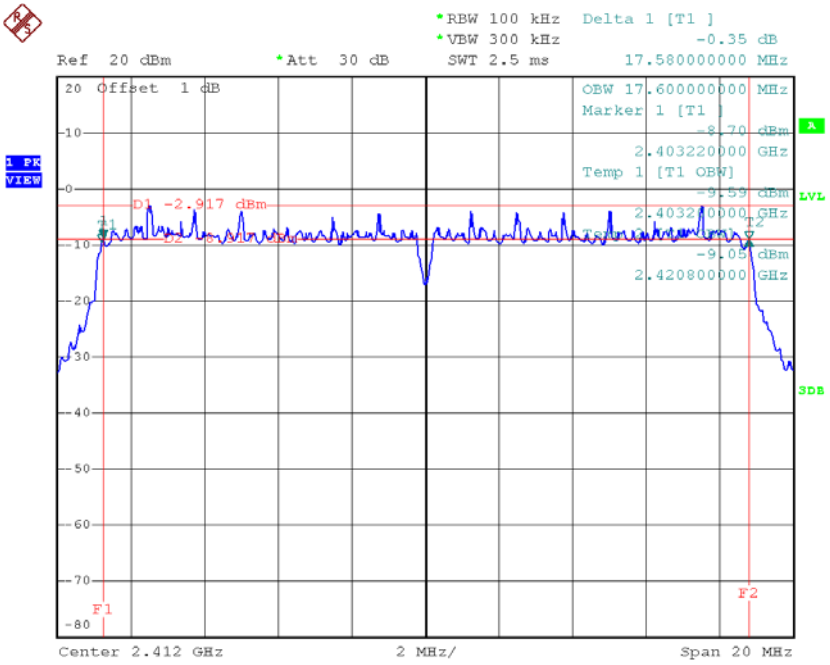


Date: 10.NOV.2015 21:11:31

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

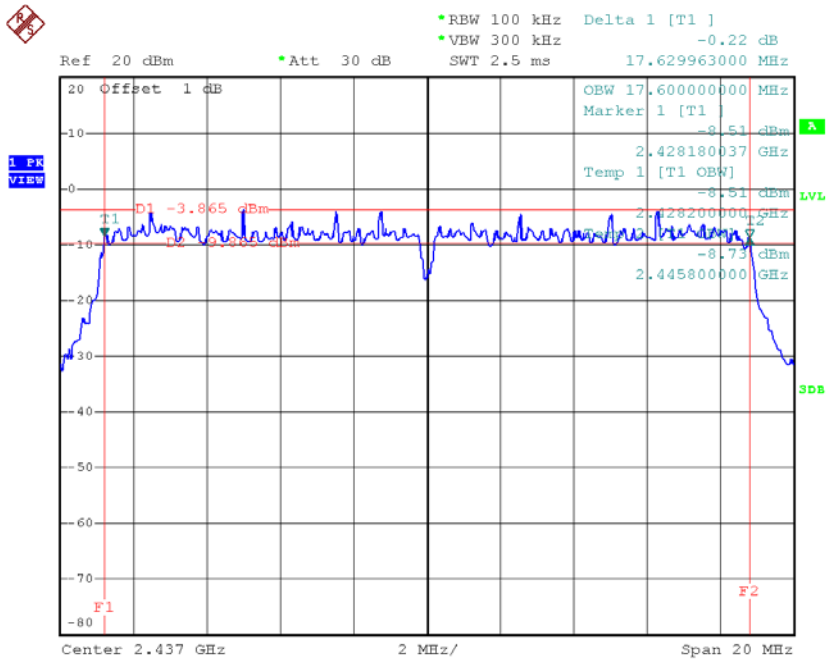
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.58	17.60	500	Complies
2437	17.63	17.60	500	Complies
2462	17.62	17.60	500	Complies

TX CH01



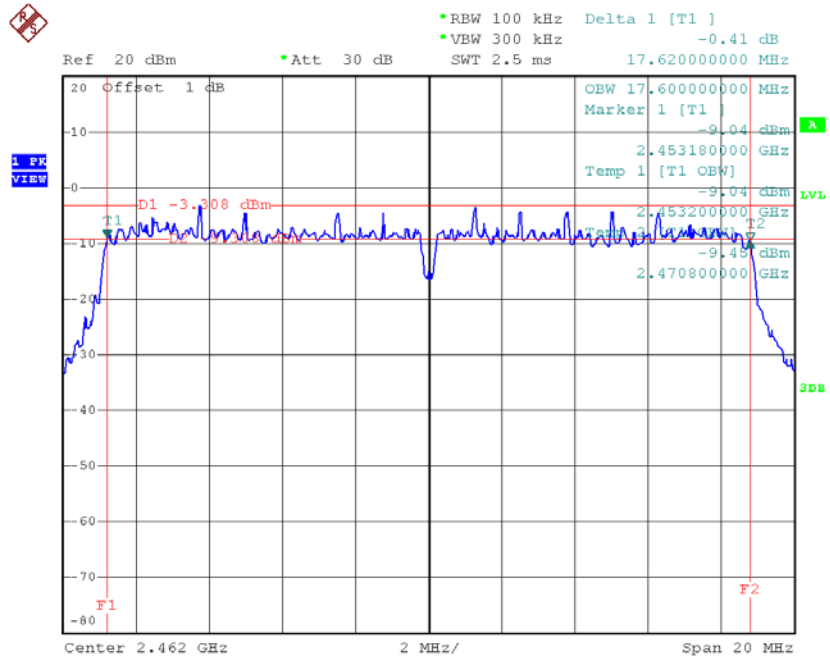
Date: 10.NOV.2015 21:12:46

TX CH06



Date: 10.NOV.2015 21:13:58

TX CH11

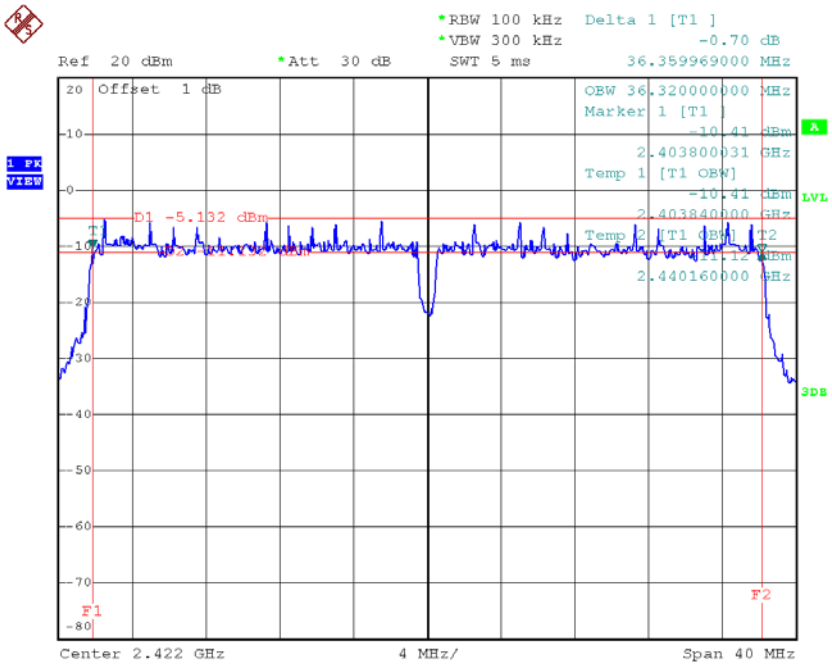


Date: 10.NOV.2015 21:14:50

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

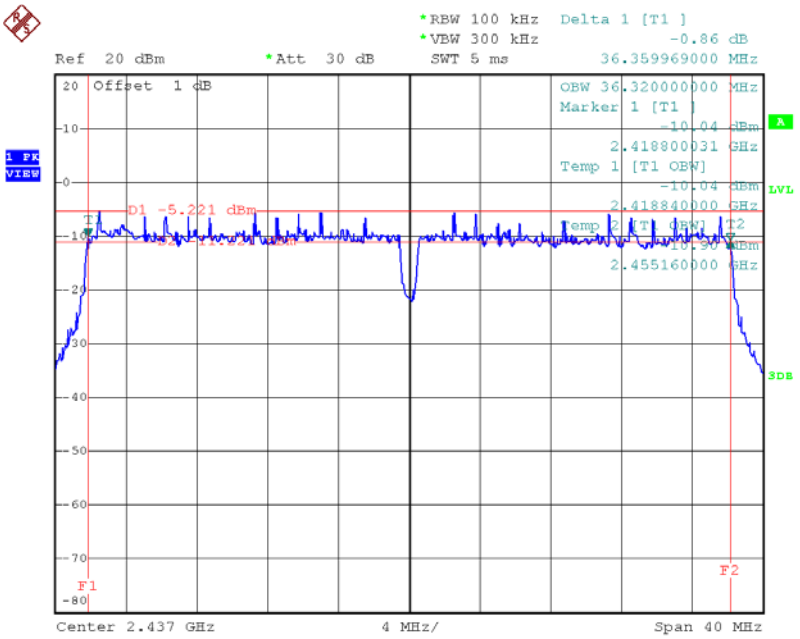
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.36	36.32	500	Complies
2437	36.36	36.32	500	Complies
2452	36.07	36.16	500	Complies

TX CH03



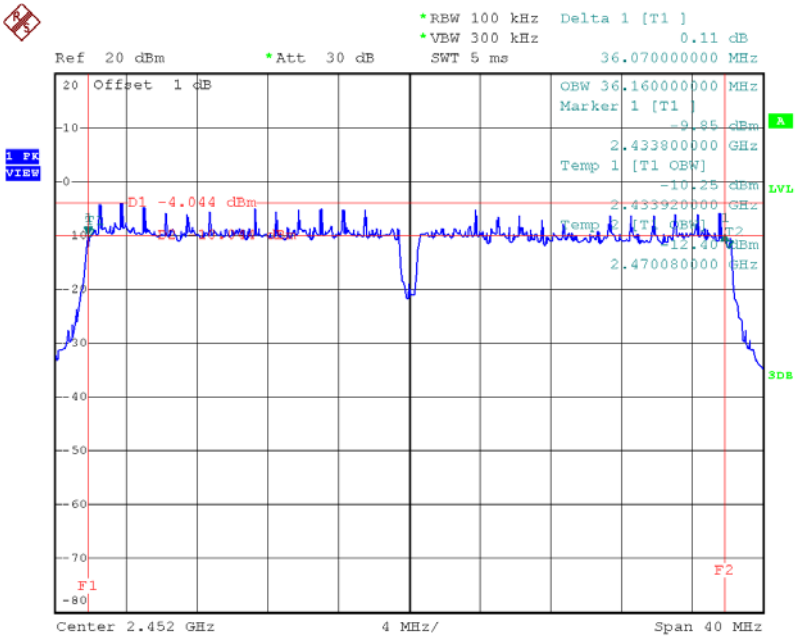
Date: 10.NOV.2015 21:16:04

TX CH06



Date: 10.NOV.2015 21:18:25

TX CH09



Date: 10.NOV.2015 21:20:21

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11						
Frequency (MHz)	Conducted Peak Power (dBm)	Conducted AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	13.64	9.61	0.02	30.00	1.00	Complies
2437	13.55	9.52	0.02	30.00	1.00	Complies
2462	13.31	9.32	0.02	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11						
Frequency (MHz)	Conducted Peak Power (dBm)	Conducted AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.74	9.57	0.09	30.00	1.00	Complies
2437	19.65	9.54	0.09	30.00	1.00	Complies
2462	19.35	9.28	0.09	30.00	1.00	Complies

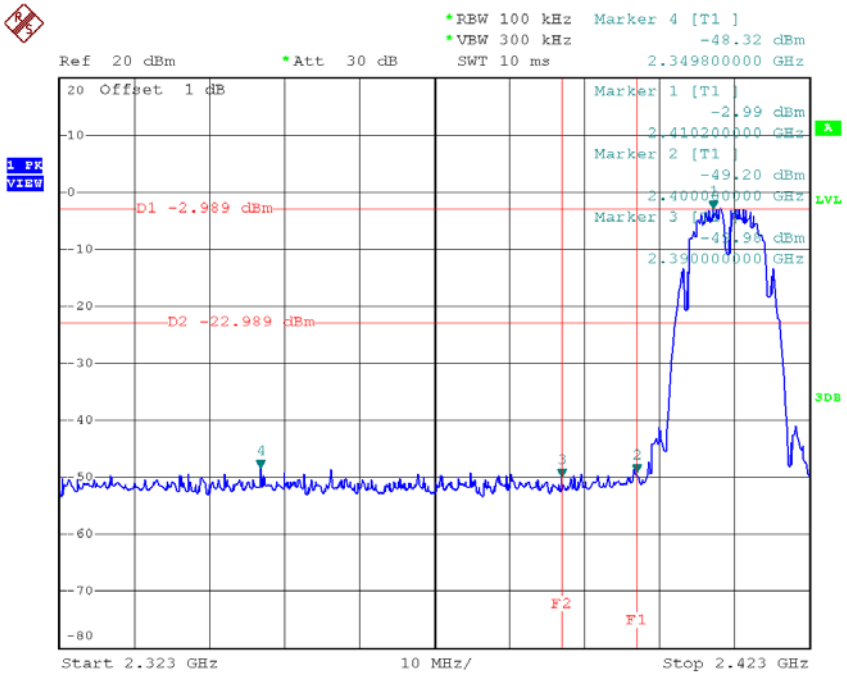
Test Mode :TX N20 Mode_CH01/06/11						
Frequency (MHz)	Conducted Peak Power (dBm)	Conducted AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.59	9.54	0.11	30.00	1.00	Complies
2437	20.80	9.49	0.12	30.00	1.00	Complies
2462	20.44	9.28	0.11	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09						
Frequency (MHz)	Conducted Peak Power (dBm)	Conducted AVG Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	20.11	9.44	0.10	30.00	1.00	Complies
2437	20.25	9.42	0.11	30.00	1.00	Complies
2452	20.55	9.71	0.11	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

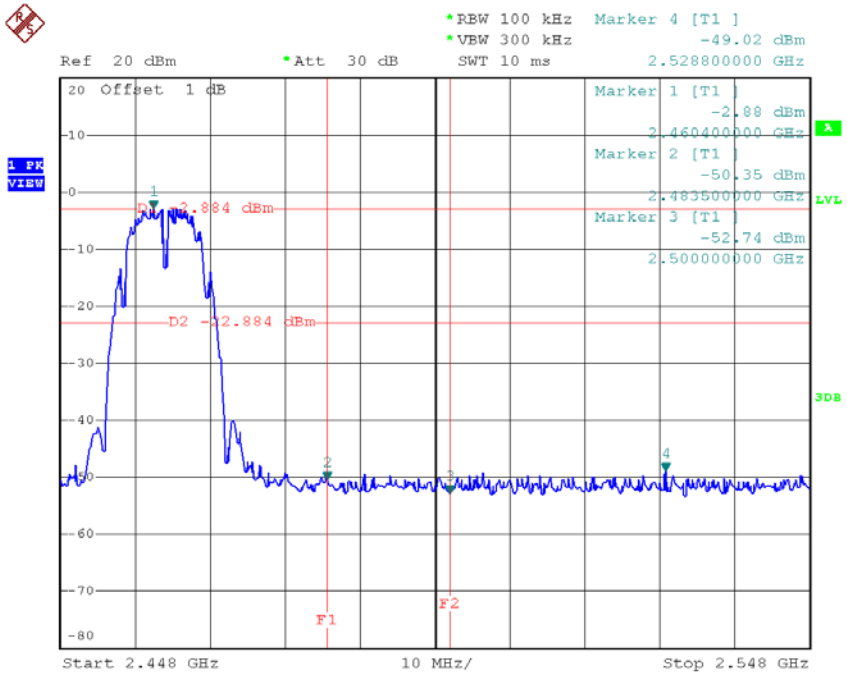
Test Mode :	TX B Mode

TX B mode CH01



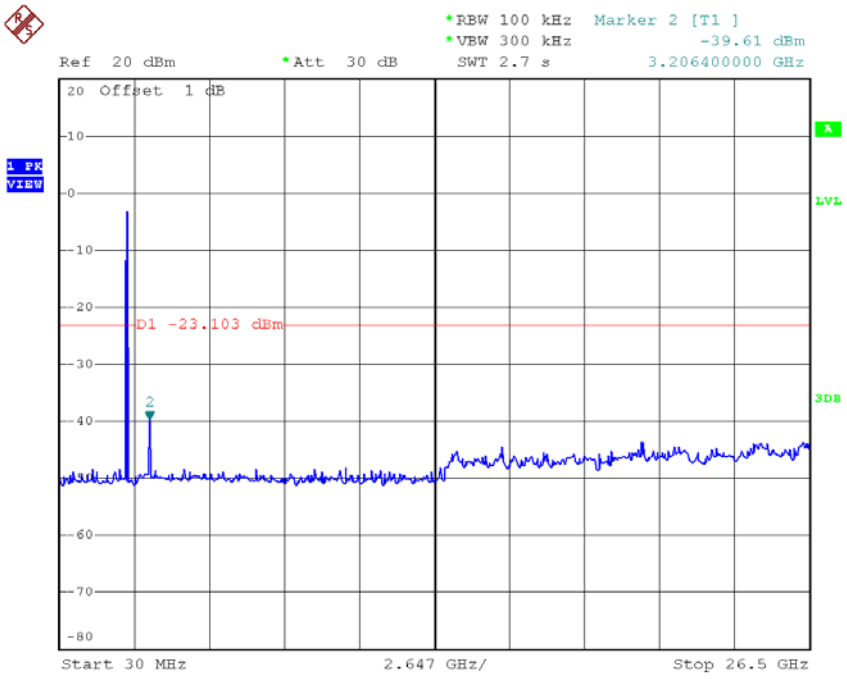
Date: 10.NOV.2015 21:06:13

TX B mode CH11



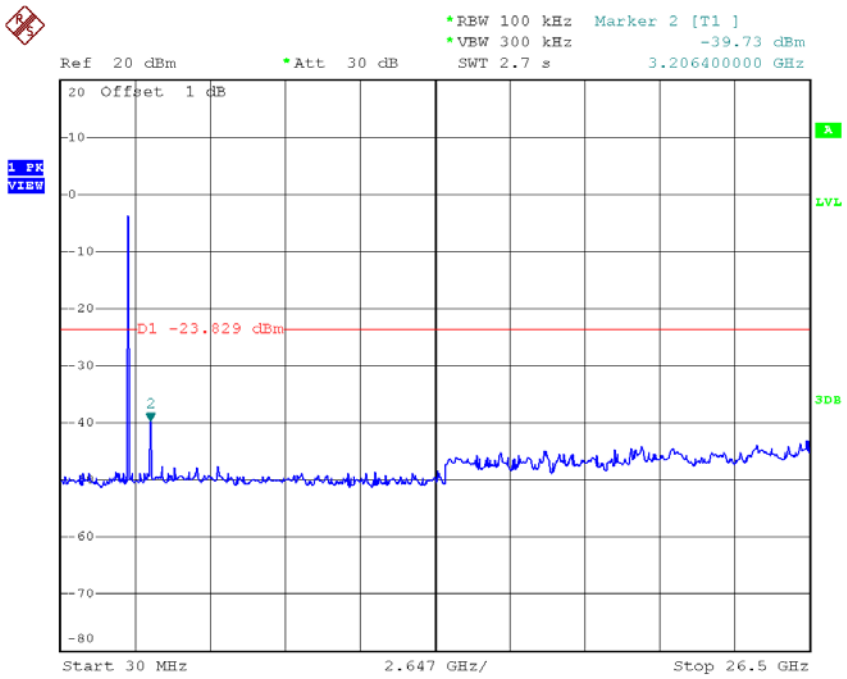
Date: 10.NOV.2015 21:08:42

TX B mode CH01 (10 Harmonic of the frequency)



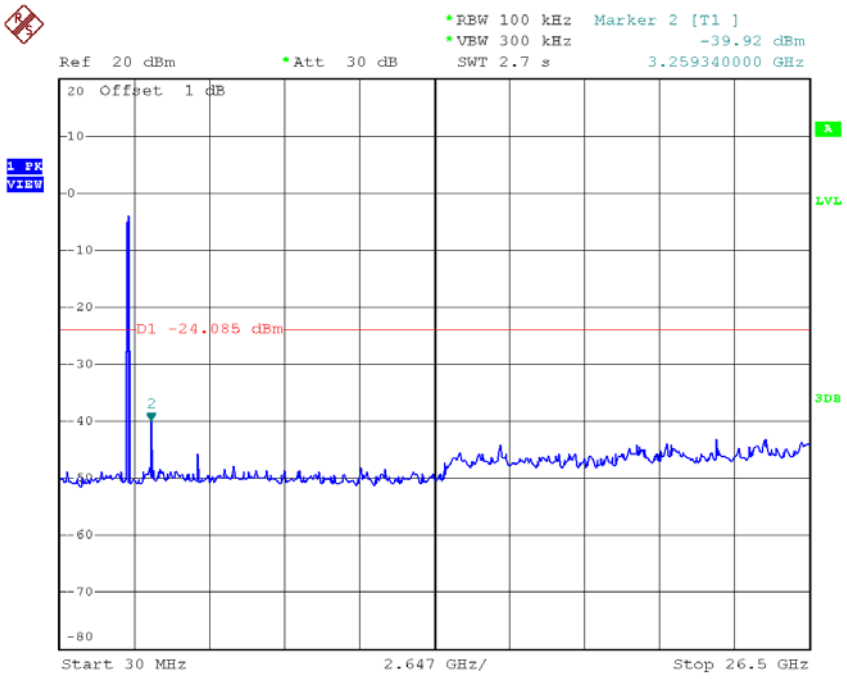
Date: 10.NOV.2015 21:06:05

TX B mode CH06 (10 Harmonic of the frequency)



Date: 10.NOV.2015 21:07:21

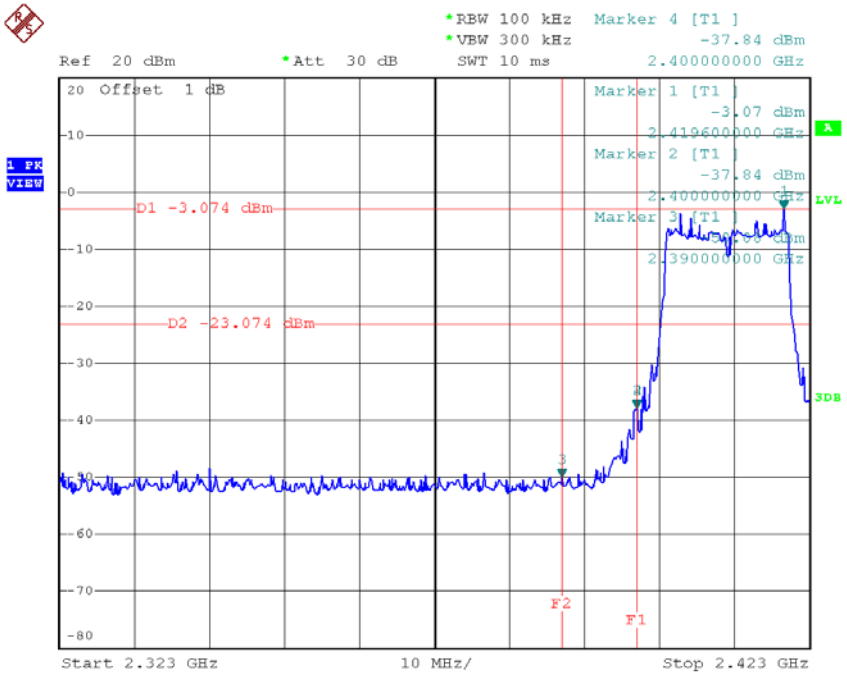
TX B mode CH11 (10 Harmonic of the frequency)



Date: 10.NOV.2015 21:08:34

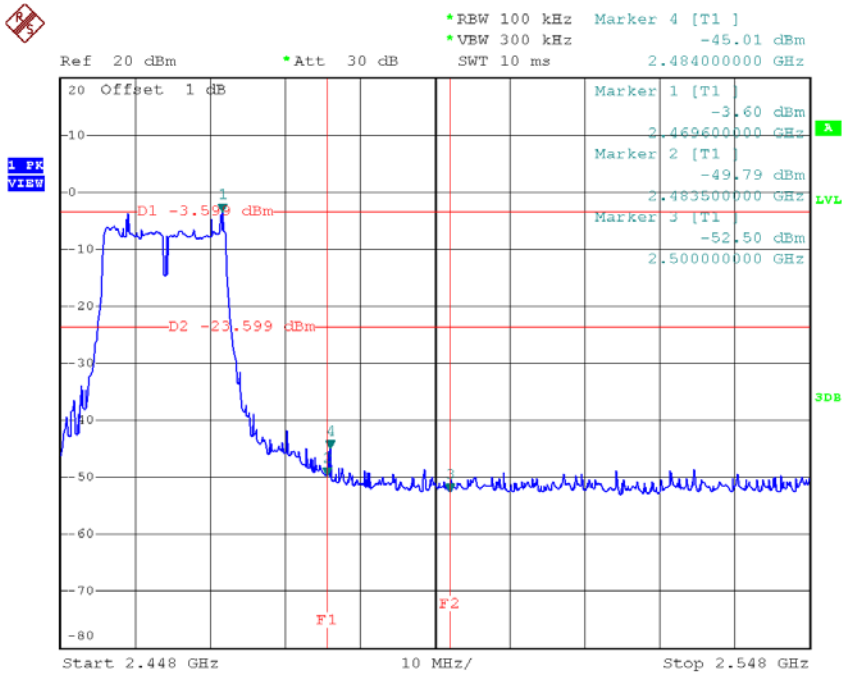
Test Mode :	TX G Mode

TX G mode CH01



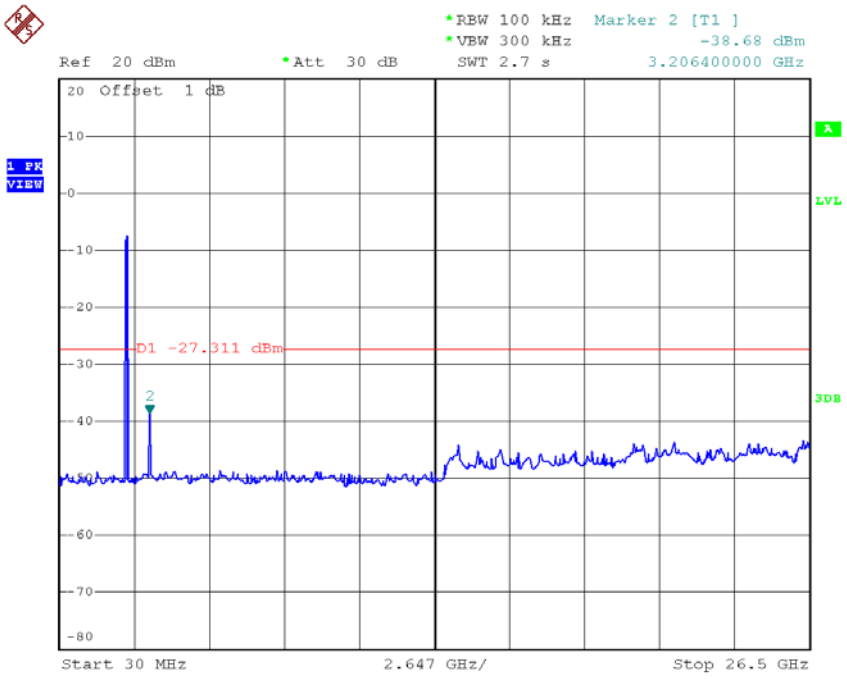
Date: 10.NOV.2015 21:09:54

TX G mode CH11



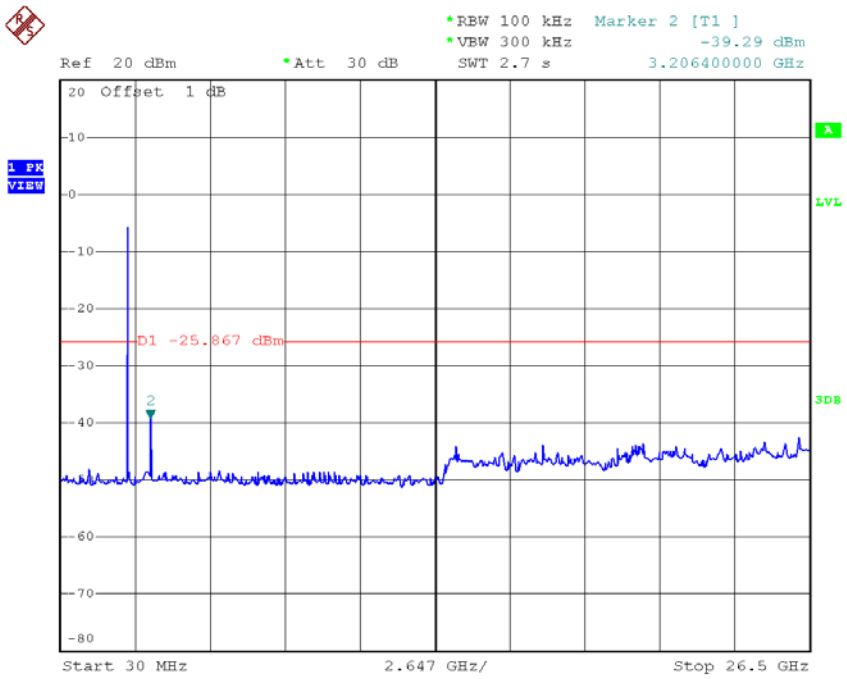
Date: 10.NOV.2015 21:11:52

TX G mode CH01 (10 Harmonic of the frequency)



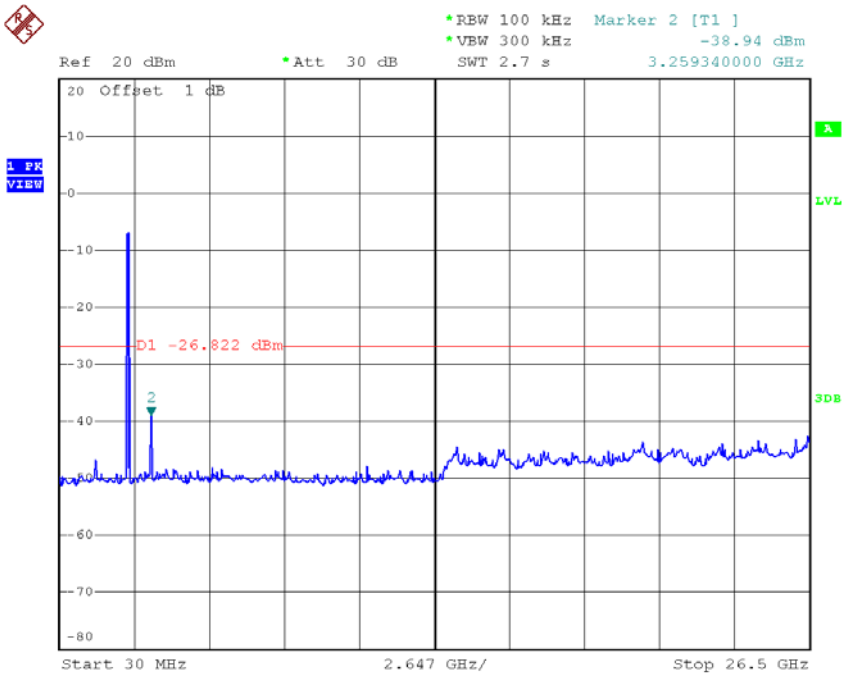
Date: 10.NOV.2015 21:09:46

TX G mode CH06 (10 Harmonic of the frequency)



Date: 10.NOV.2015 21:10:46

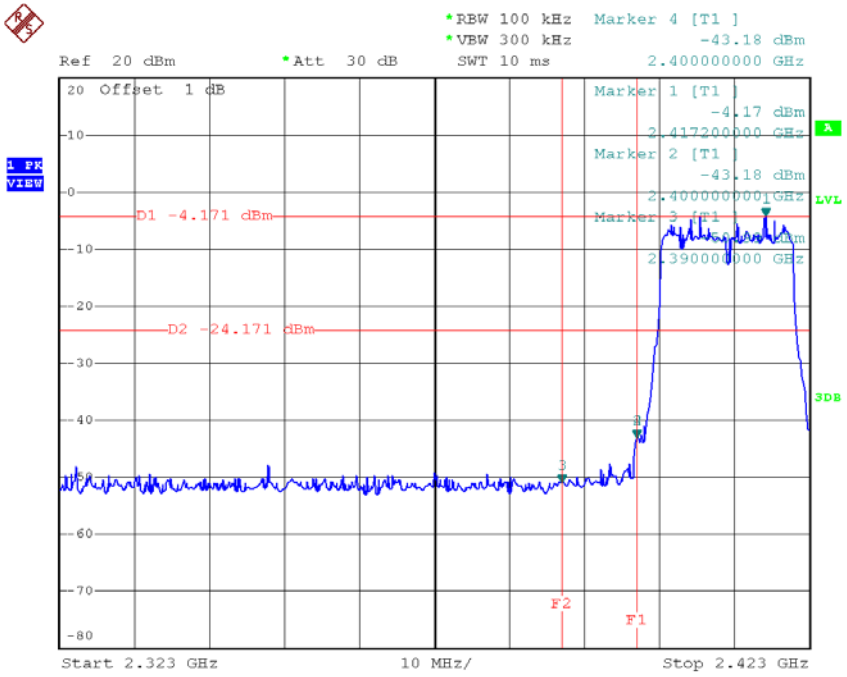
TX G mode CH11 (10 Harmonic of the frequency)



Date: 10.NOV.2015 21:11:45

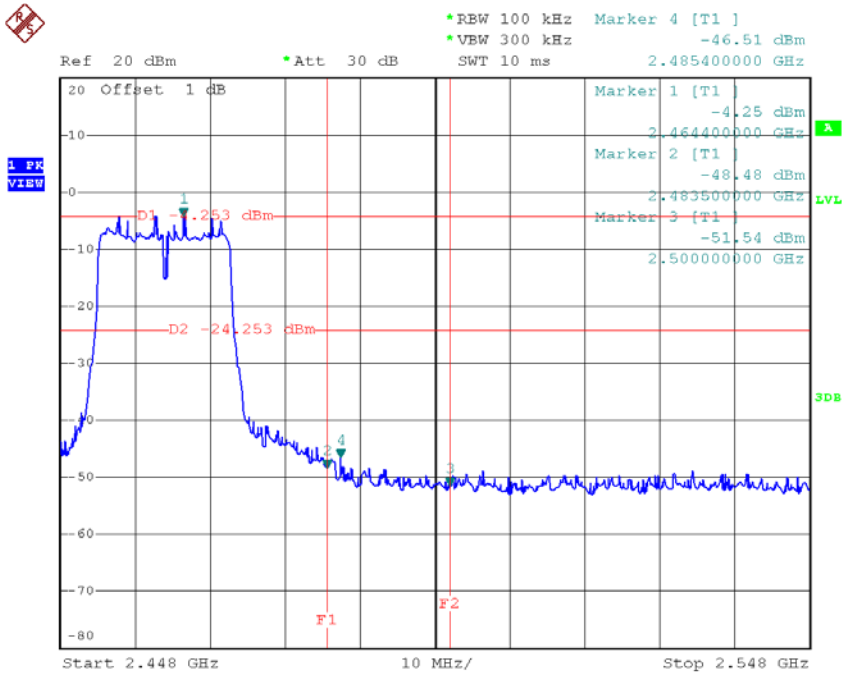
Test Mode :	TX N-20M Mode

TX HT20 mode CH01



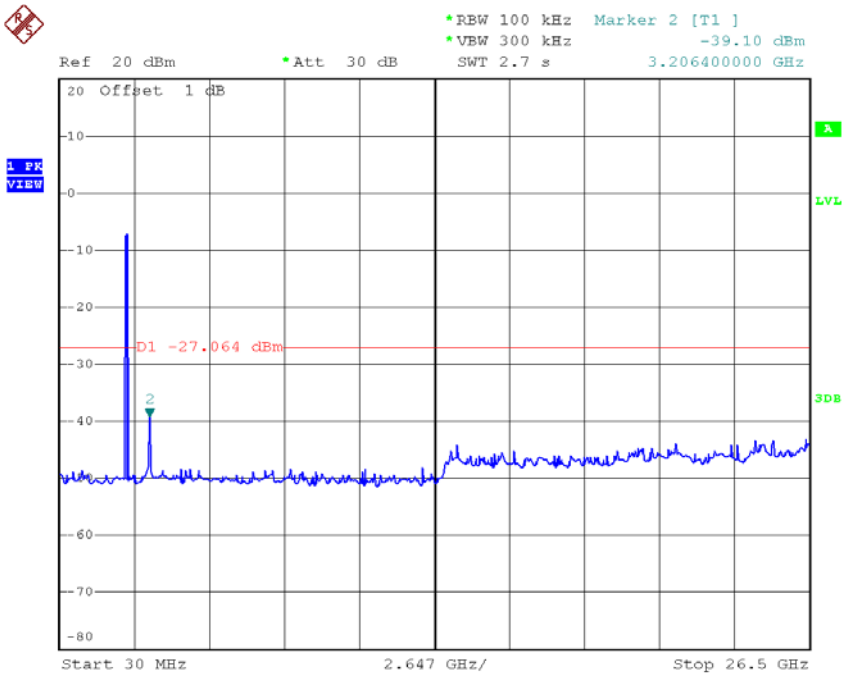
Date: 10.NOV.2015 21:13:07

TX HT20 mode CH11



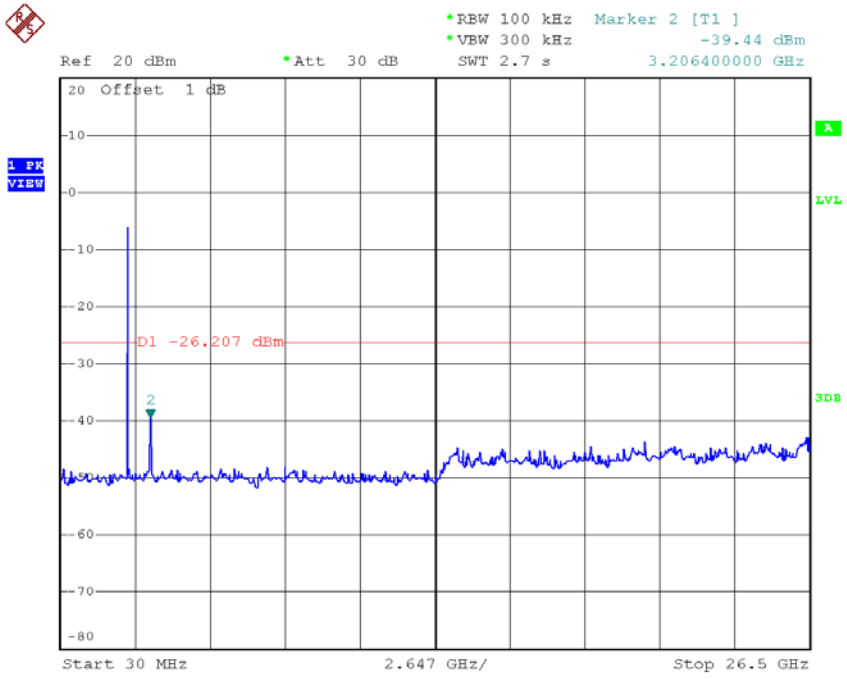
Date: 10.NOV.2015 21:15:11

TX HT20 mode CH01 (10 Harmonic of the frequency)



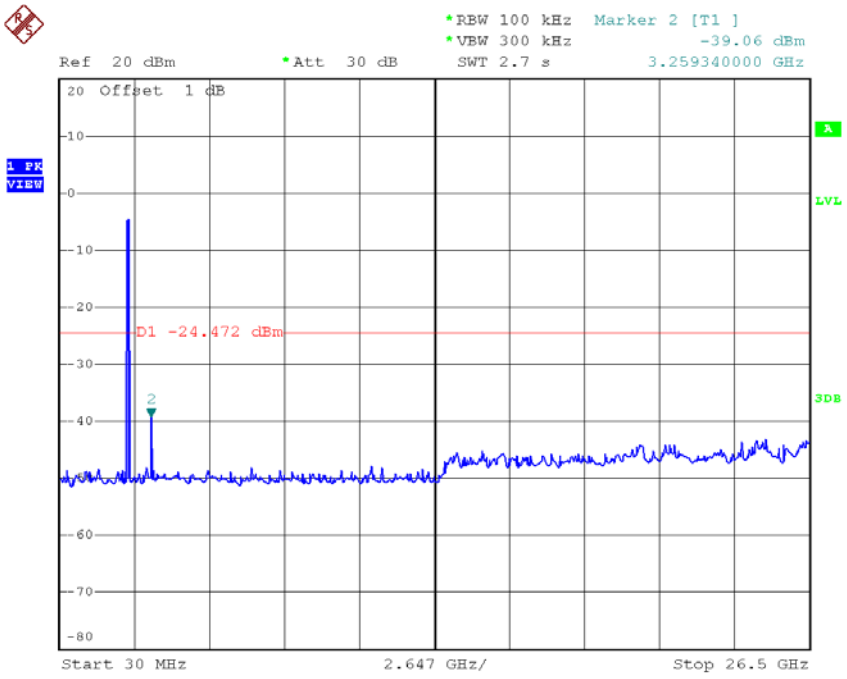
Date: 10.NOV.2015 21:13:00

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 10.NOV.2015 21:14:12

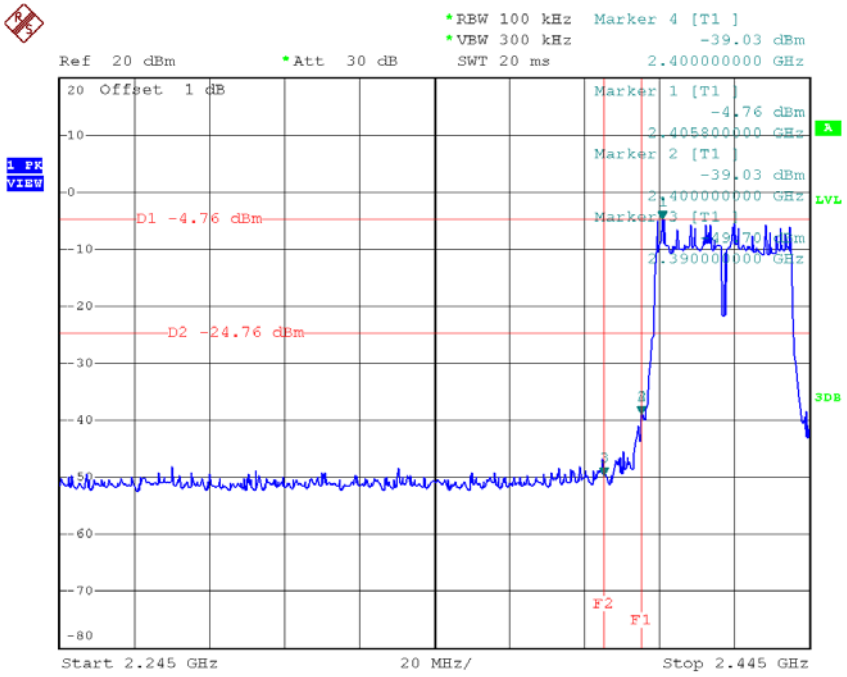
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 10.NOV.2015 21:15:04

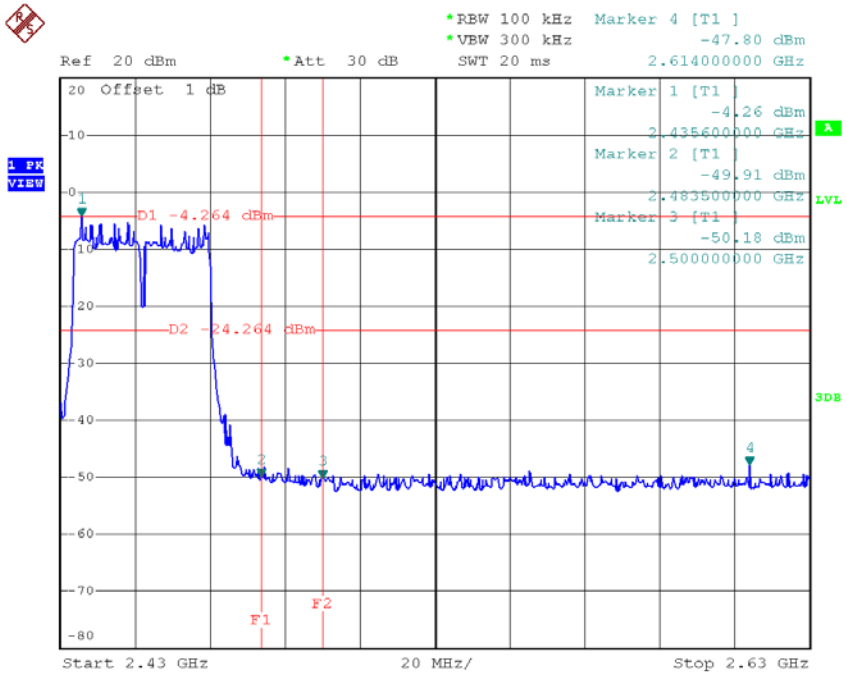
Test Mode :	TX N-40M Mode

TX HT40 mode CH03



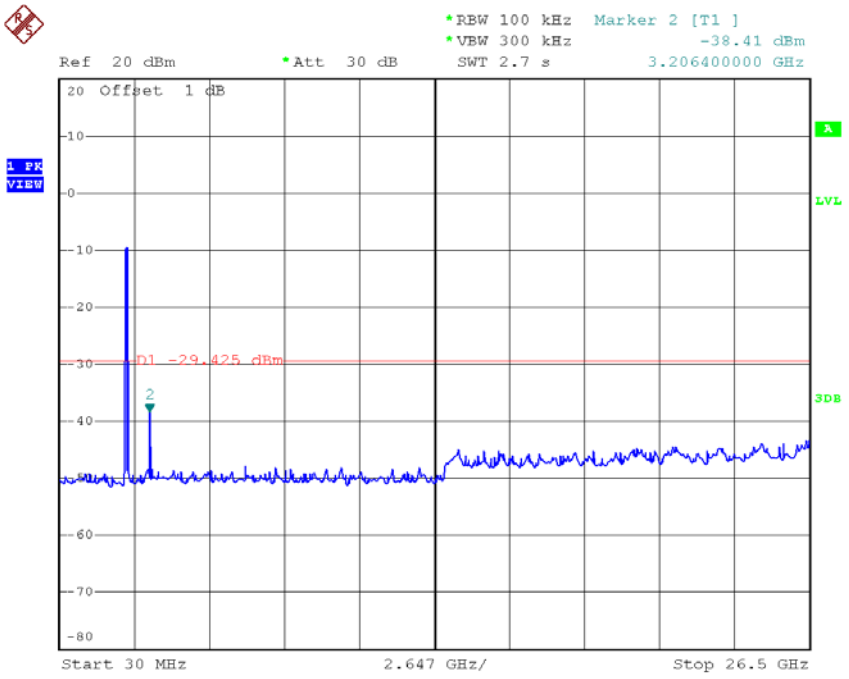
Date: 10.NOV.2015 21:17:40

TX HT40 mode CH09



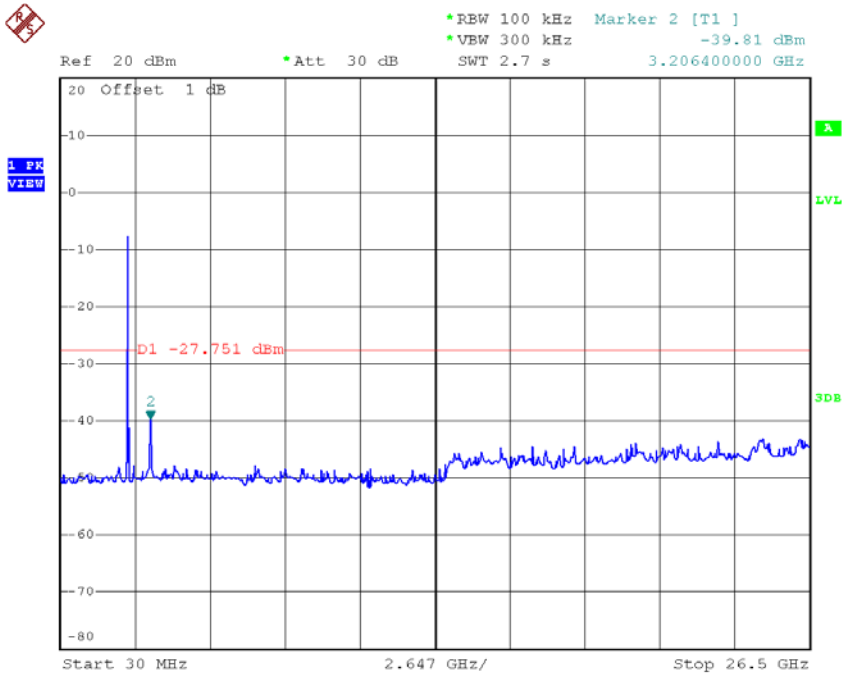
Date: 10.NOV.2015 21:20:43

TX HT40 mode CH03 (10 Harmonic of the frequency)



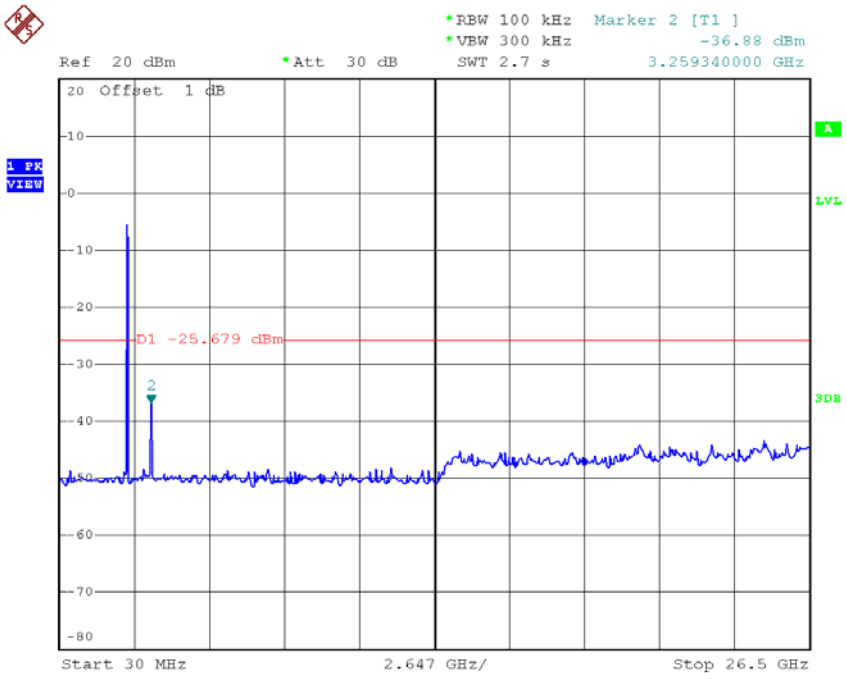
Date: 10.NOV.2015 21:16:18

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 10.NOV.2015 21:18:38

TX HT40 mode CH09 (10 Harmonic of the frequency)



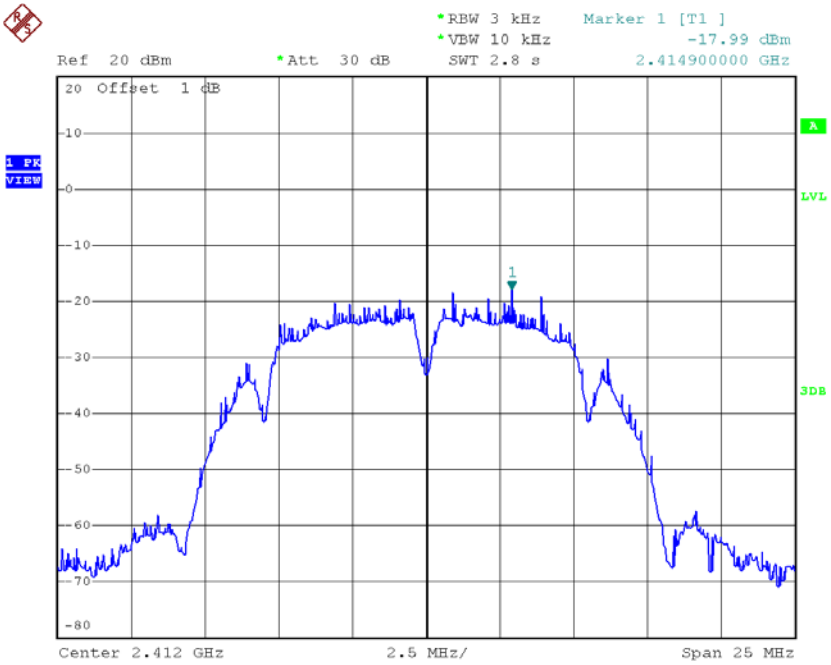
Date: 10.NOV.2015 21:20:35

ATTACHMENT H - POWER SPECTRAL DENSITY

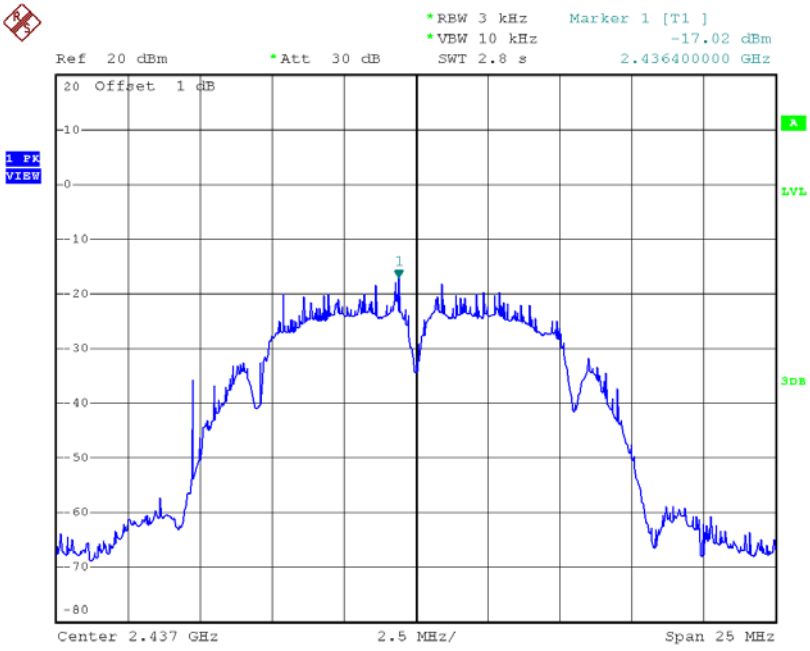
Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-17.99	0.02	8.00	Complies
2437	-17.02	0.02	8.00	Complies
2462	-19.13	0.01	8.00	Complies

TX CH01

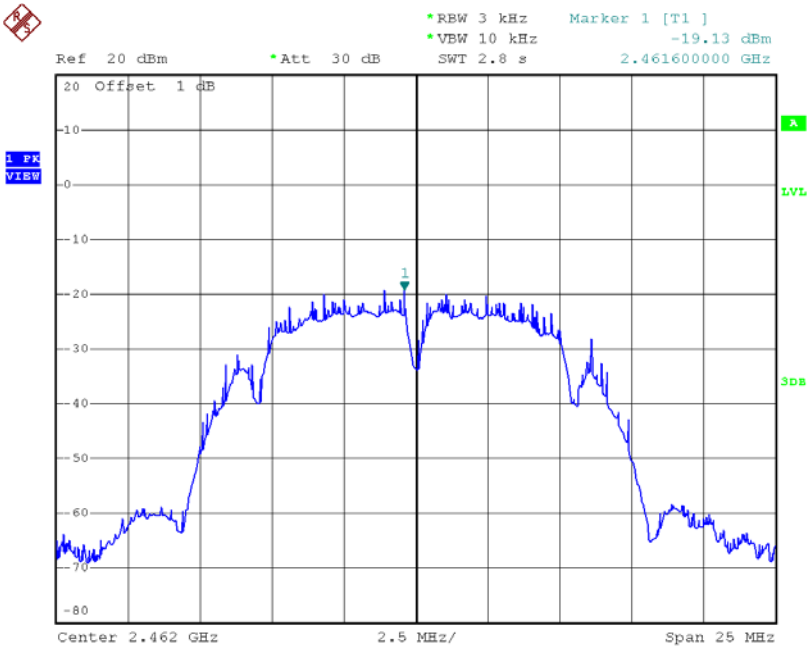


TX CH06



Date: 10.NOV.2015 21:07:30

TX CH11

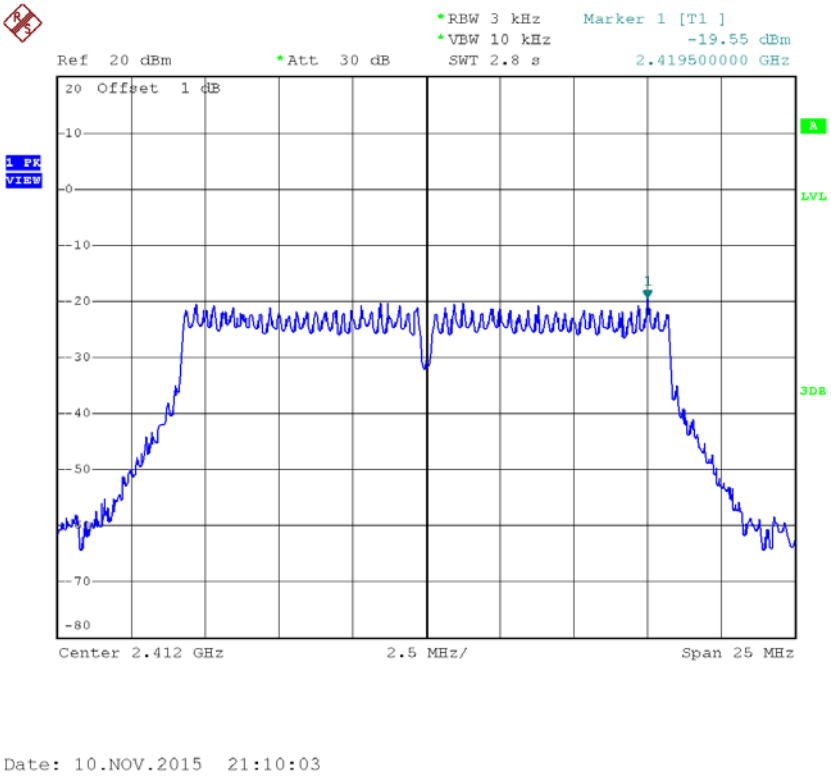


Date: 10.NOV.2015 21:08:51

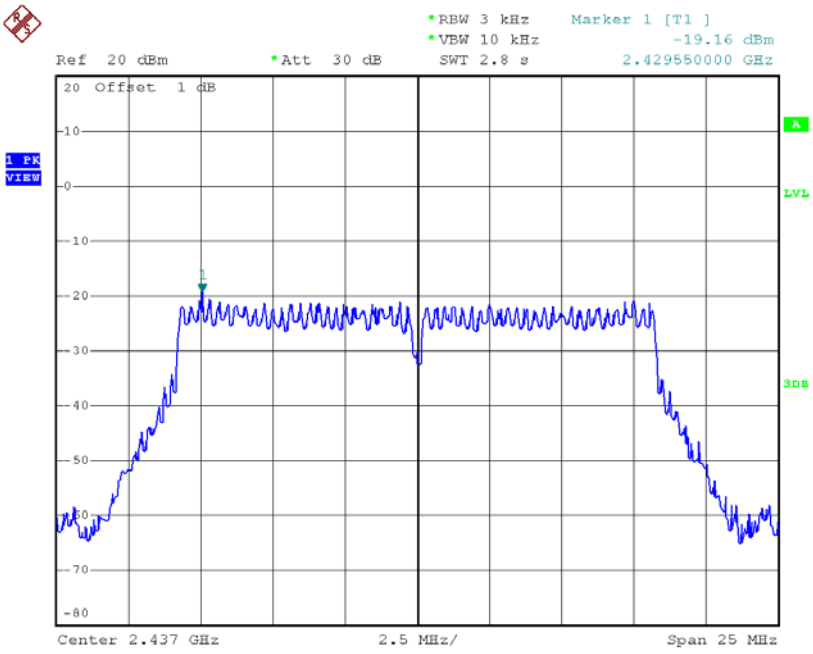
Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-19.55	0.01	8.00	Complies
2437	-19.16	0.01	8.00	Complies
2462	-20.29	0.01	8.00	Complies

TX CH01

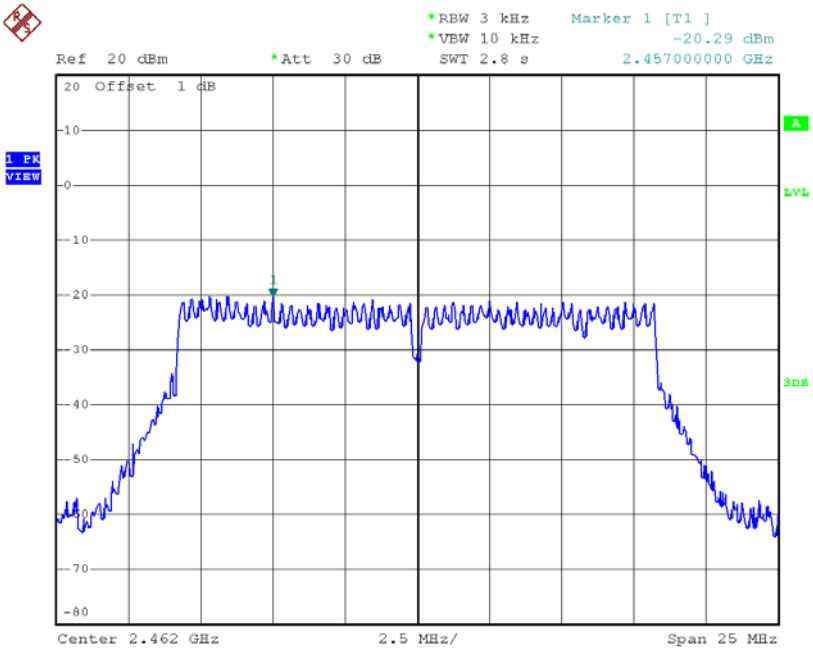


TX CH06



Date: 10.NOV.2015 21:10:55

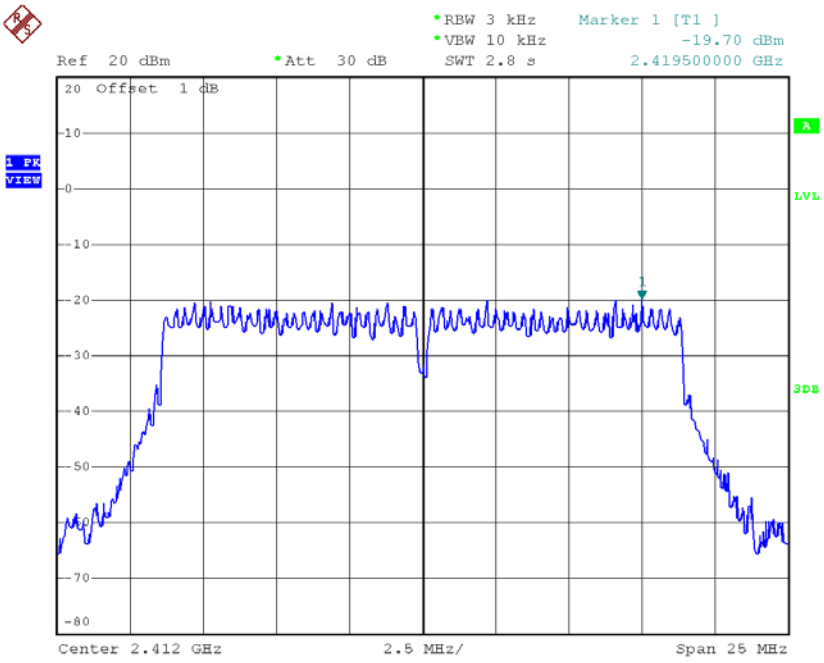
TX CH11



Date: 10.NOV.2015 21:12:01

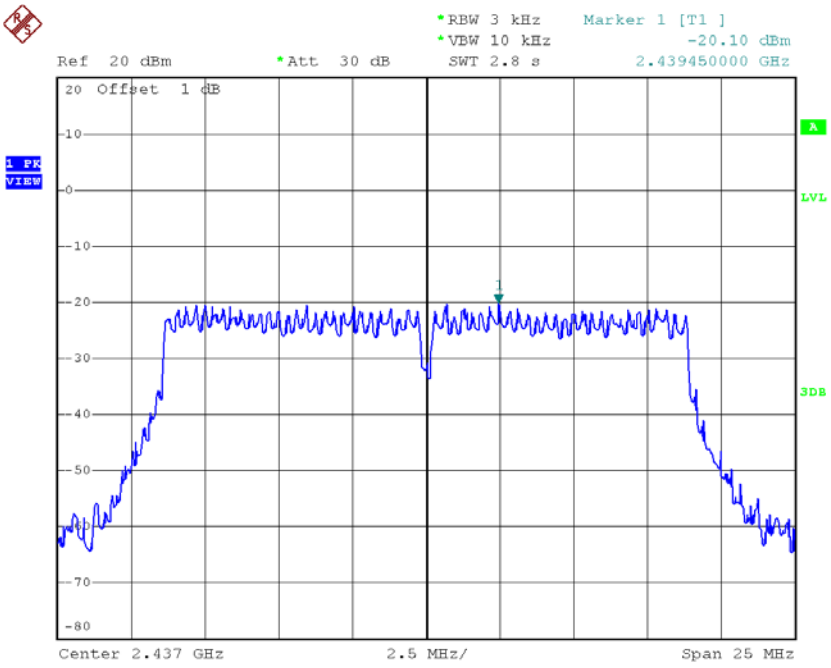
Test Mode : TX N-20M Mode_CH01/06/11				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-19.70	0.01	8.00	Complies
2437	-20.10	0.01	8.00	Complies
2462	-19.31	0.01	8.00	Complies

TX CH01



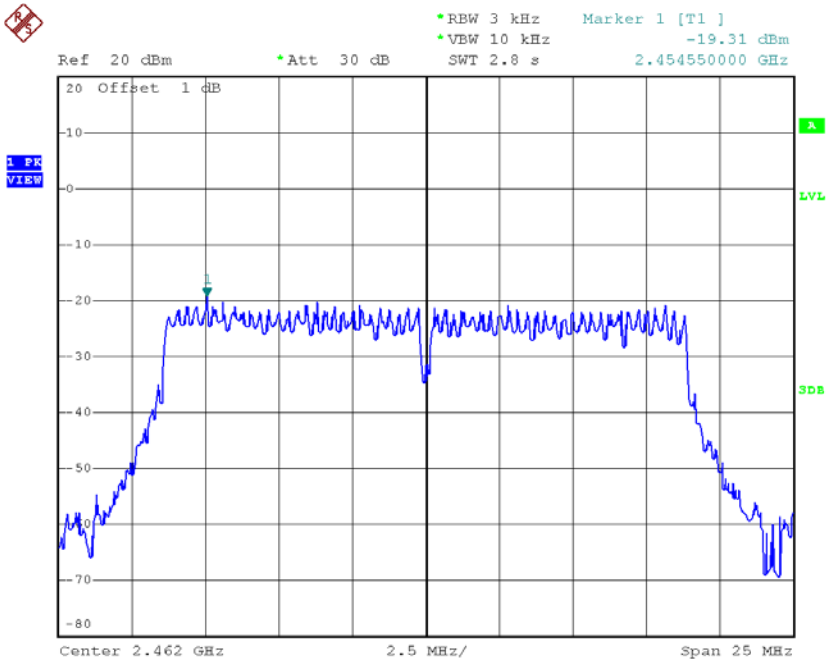
Date: 10.NOV.2015 21:13:17

TX CH06



Date: 10.NOV.2015 21:14:21

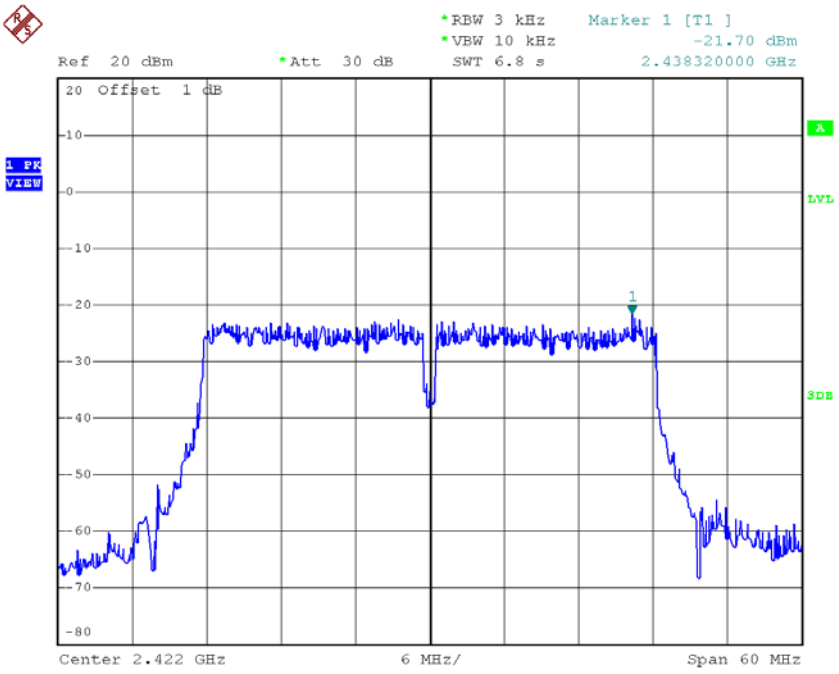
TX CH11



Date: 10.NOV.2015 21:15:21

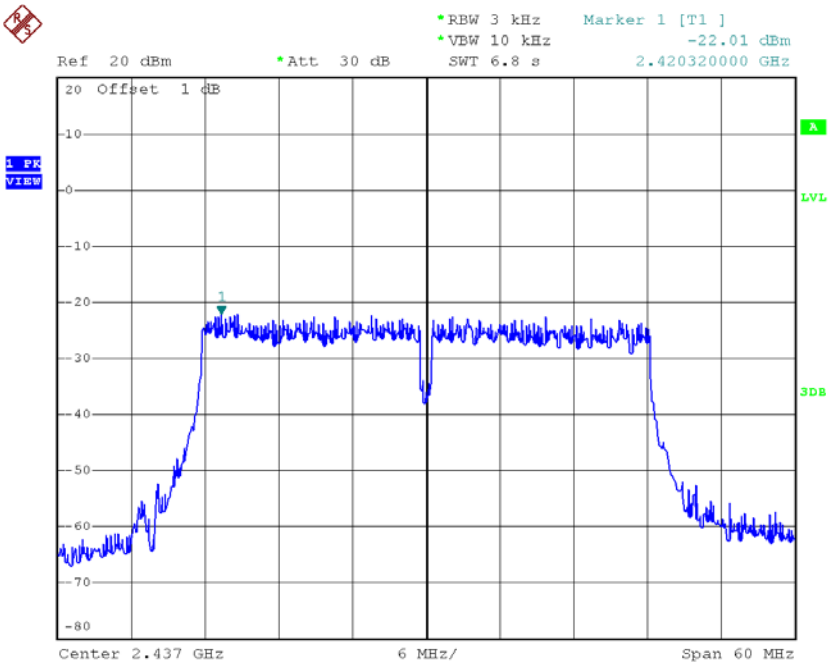
Test Mode : TX N-40M Mode_CH03/06/09				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-21.70	0.01	8.00	Complies
2437	-22.01	0.01	8.00	Complies
2452	-20.85	0.01	8.00	Complies

TX CH03



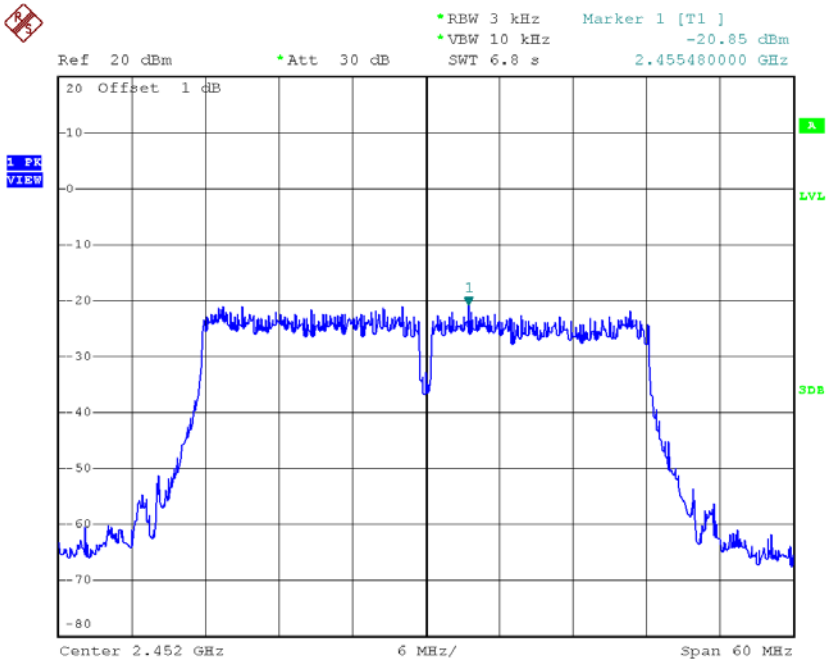
Date: 10.NOV.2015 21:17:53

TX CH06



Date: 10.NOV.2015 21:19:55

TX CH09



Date: 10.NOV.2015 21:22:02