

FCC Radio Test Report

FCC ID: Q78-ZXHNF680

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

Project No. : 1511C185
Equipment : GPON ONT
Model Name : ZXHN F680
Applicant : ZTE Corporation
Address : ZTE Plaza, Hi-Tech Park, Nanshan District,
Shenzhen, Guangdong, P.R.China

Date of Receipt : Nov. 12, 2015
Date of Test : Nov. 12, 2015 ~ Jan. 05, 2016
Issued Date : Jan. 06, 2016
Tested by : BTL Inc.

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Declaration

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1511C185	Original Issue.	Jan. 06, 2016

1. CERTIFICATION

Equipment : GPON ONT
Brand Name : ZTE 中兴, ZTE
Model Name : ZXHN F680
Applicant : ZTE Corporation
Manufacturer: ZTE Corporation
Address : ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Factory : ZTE Corporation
Address : ZTE Plaza, Hi-Tech Park, Nanshan District, Shenzhen, Guangdong, P.R.China
Date of Test : Nov. 12, 2015 ~ Jan. 05, 2016
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-1-1511C185) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	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	GPON ONT	
Brand Name	ZTE 中兴, ZTE	
Model Name	ZXHN F680	
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 450 Mbps
	Output Power (Max.)	802.11b: 20.31dBm 802.11g: 25.37dBm 802.11n(20MHz): 27.24dBm 802.11n(40MHz): 27.03dBm
Power Source	DC Voltage supplied from AC/DC adapter. Mode: RD1202000-C55-29MG	
Power Rating	I/P: 100-240V~ 50/60Hz 0.6A O/P: DC 12V 2.0A	

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 Type	Connector	Gain (dBi)	Note
1	Airgain	N2430GND	Internal	N/A	3.3	2.4G
2	Airgain	N2430GNS	Internal	N/A	2.7	2.4G
3	Airgain	N2430GND	Internal	N/A	3.1	2.4G

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides three completed transmitters and receivers (3T3R), all transmit signals are completely uncorrelated, then, **Direction gain = G_{ANT}** , that is Directional gain=3.3.

4.

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

3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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:

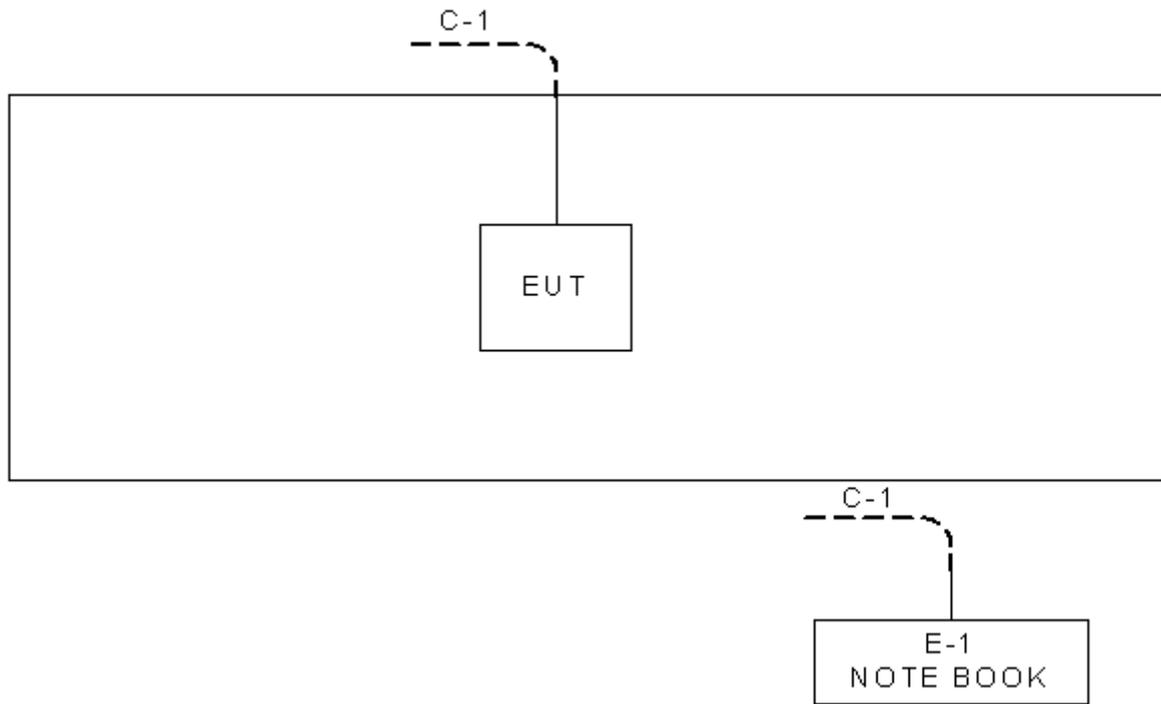
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (19.5Mbps)
 802.11n HT40 mode : BPSK (40.5Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (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	ART		
Frequency (MHz)	2412	2437	2462
802.11b	18	19	18
802.11g	15	19	14
802.11n (20MHz)	12	12	12
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	12	12	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	Series No.
E-1	NOTEBOOK	Lenovo	H2510	DOC	SS07999198

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NA	NA	10m	RJ-45 Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

- (1) The limit of " * " decreases with the logarithm of the frequency
- (2) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

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

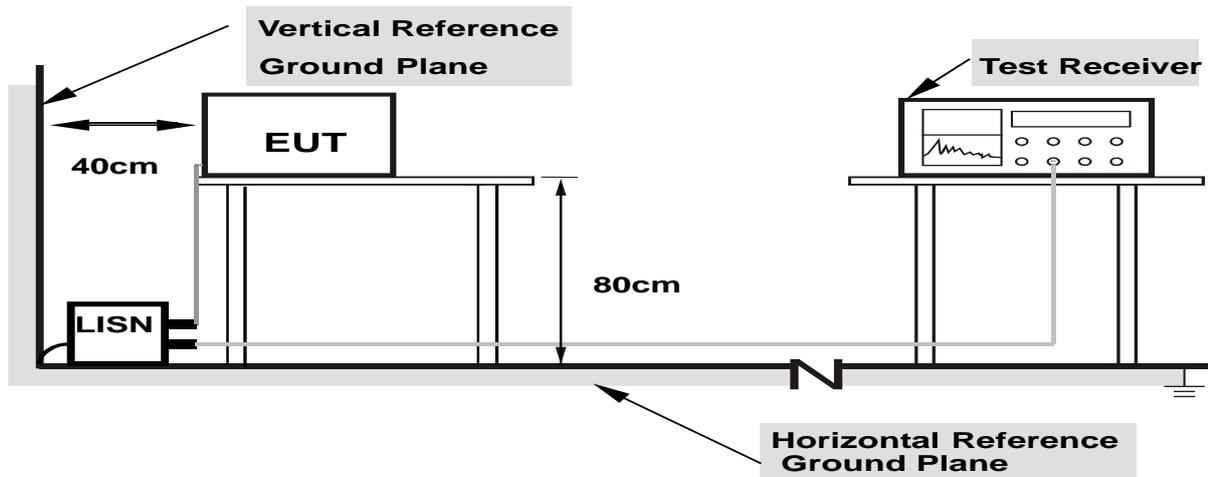
4.1.2 TEST PROCEDURE

- 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

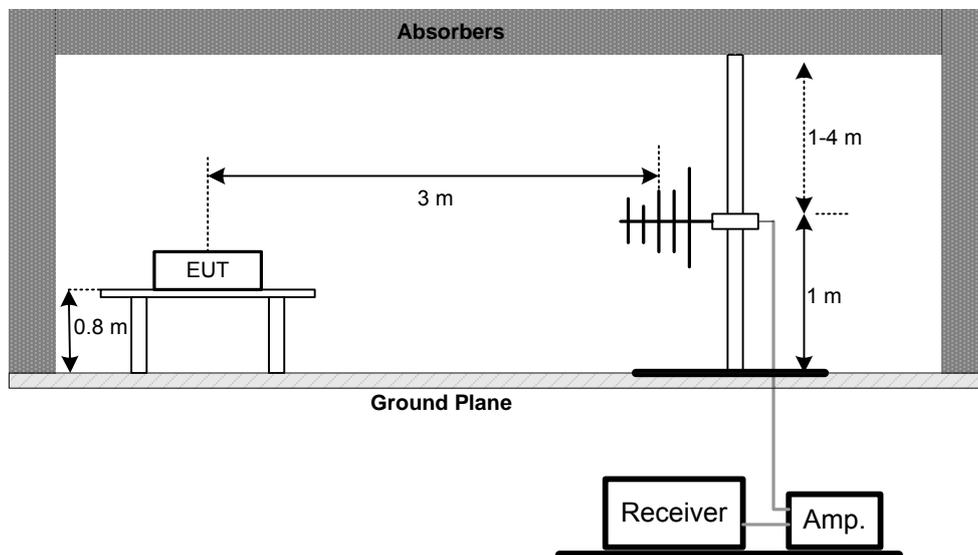
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance 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

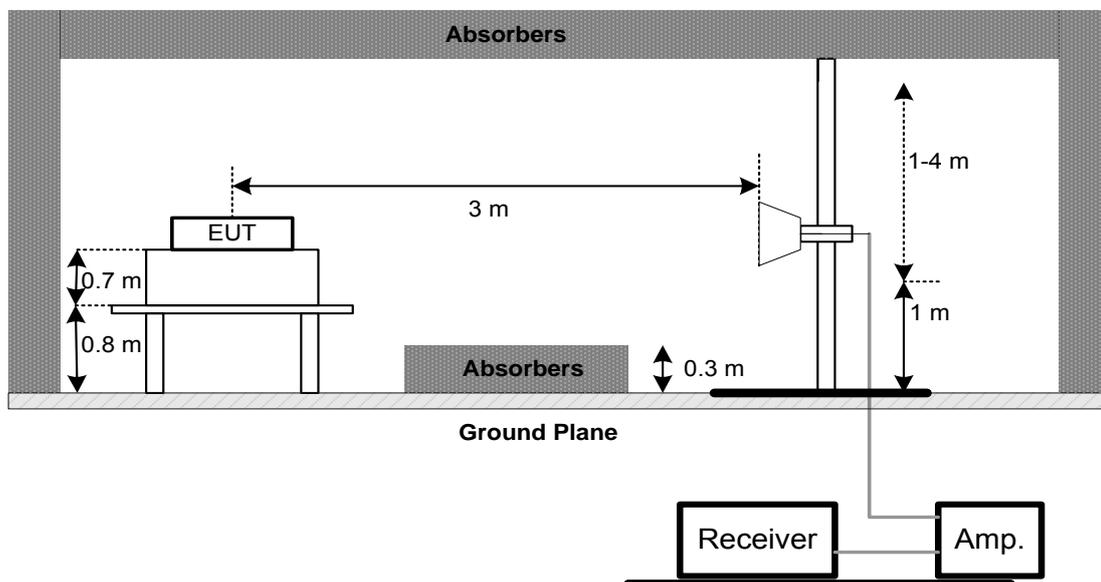
No deviation

4.2.4 TEST SETUP

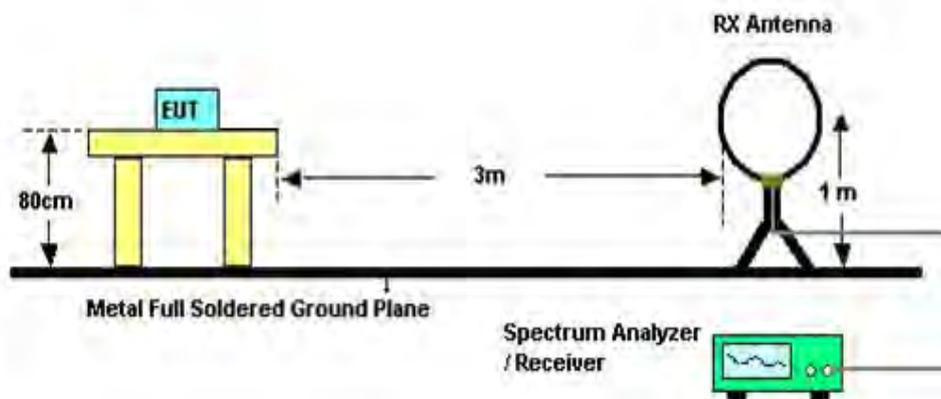
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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 = $40 \log(\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (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

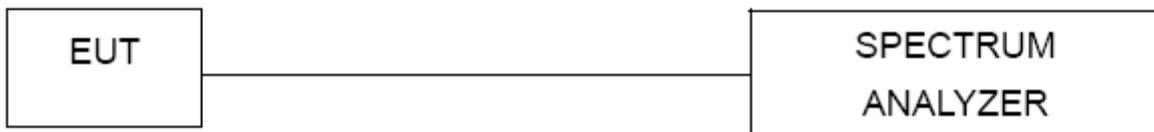
5.1.1 TEST PROCEDURE

- 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.

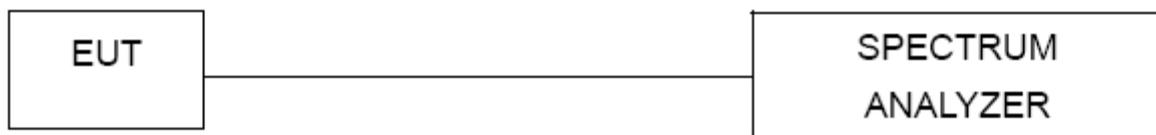
7.1.1 TEST PROCEDURE

- 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	3816/2	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	MY5213003 9	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MH z-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	Receiver	AGILENT	N9038A	MY5213003 9	Oct. 11, 2016
10	Test Cable	emci	EMC104-SM-S M-10000(1GHz -26.5GHz)	C-68	Jun. 28, 2016
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
13	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

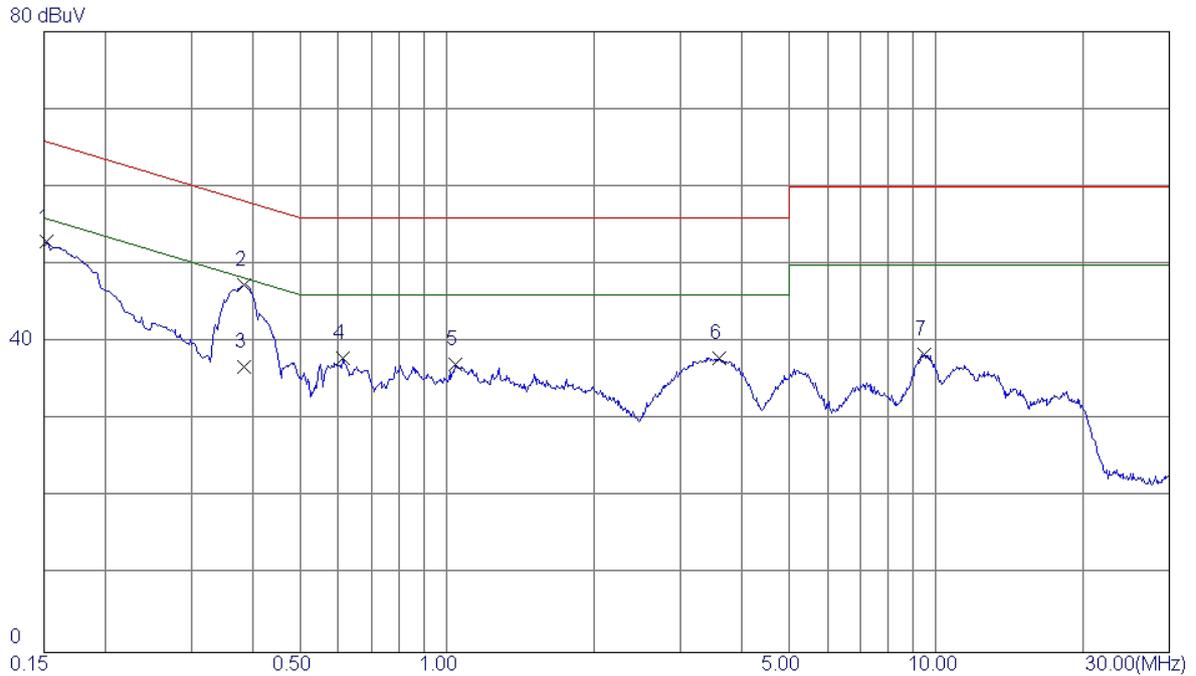
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

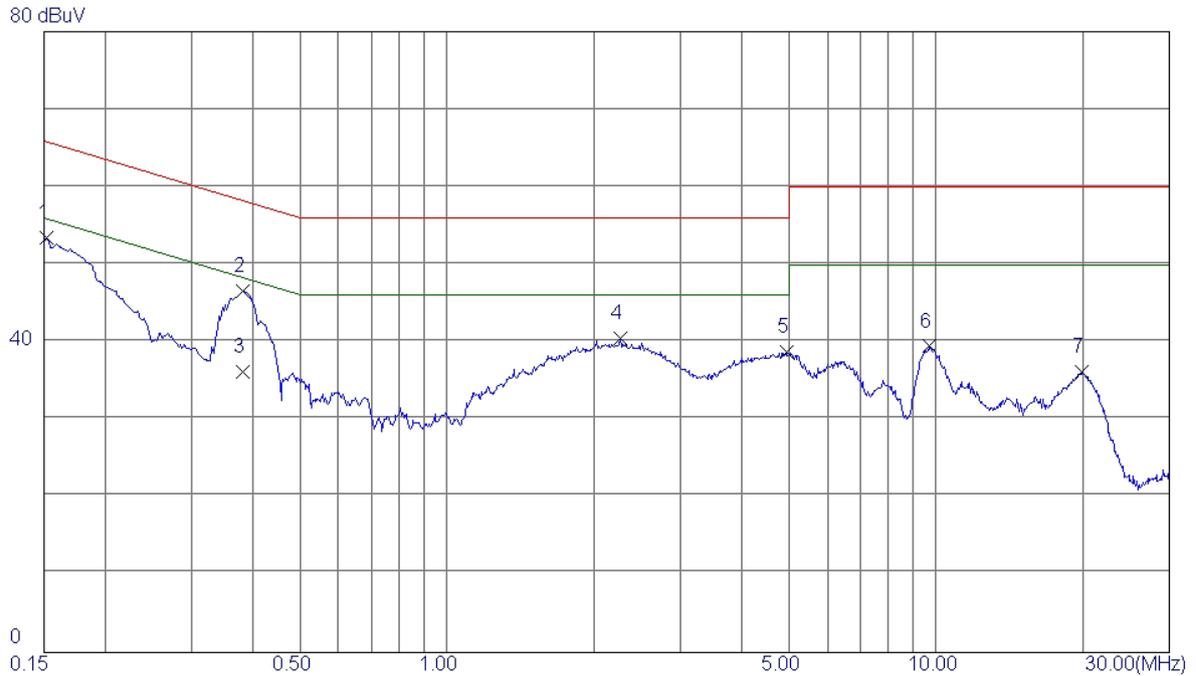
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1522	43.20	9.68	52.88	65.88	-13.00	Peak	
2	0.3840	37.56	9.80	47.36	58.19	-10.83	Peak	
3	0.3840	27.00	9.80	36.80	48.19	-11.39	AVG	
4	0.6134	28.02	9.86	37.88	56.00	-18.12	Peak	
5	1.0387	27.14	9.99	37.13	56.00	-18.87	Peak	
6	3.6105	28.12	9.85	37.97	56.00	-18.03	Peak	
7	9.4627	28.31	10.04	38.35	60.00	-21.65	Peak	

Test Mode : TX MODE

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1522	43.82	9.60	53.42	65.88	-12.46	Peak	
2	0.3817	36.87	9.63	46.50	58.24	-11.74	Peak	
3	0.3817	26.50	9.63	36.13	48.24	-12.11	AVG	
4	2.2650	30.65	9.90	40.55	56.00	-15.45	Peak	
5	4.9403	28.65	10.09	38.74	56.00	-17.26	Peak	
6	9.6833	29.39	10.05	39.44	60.00	-20.56	Peak	
7	19.8623	25.85	10.28	36.13	60.00	-23.87	Peak	

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

Test Mode:	TX B MODE CHANNEL 01
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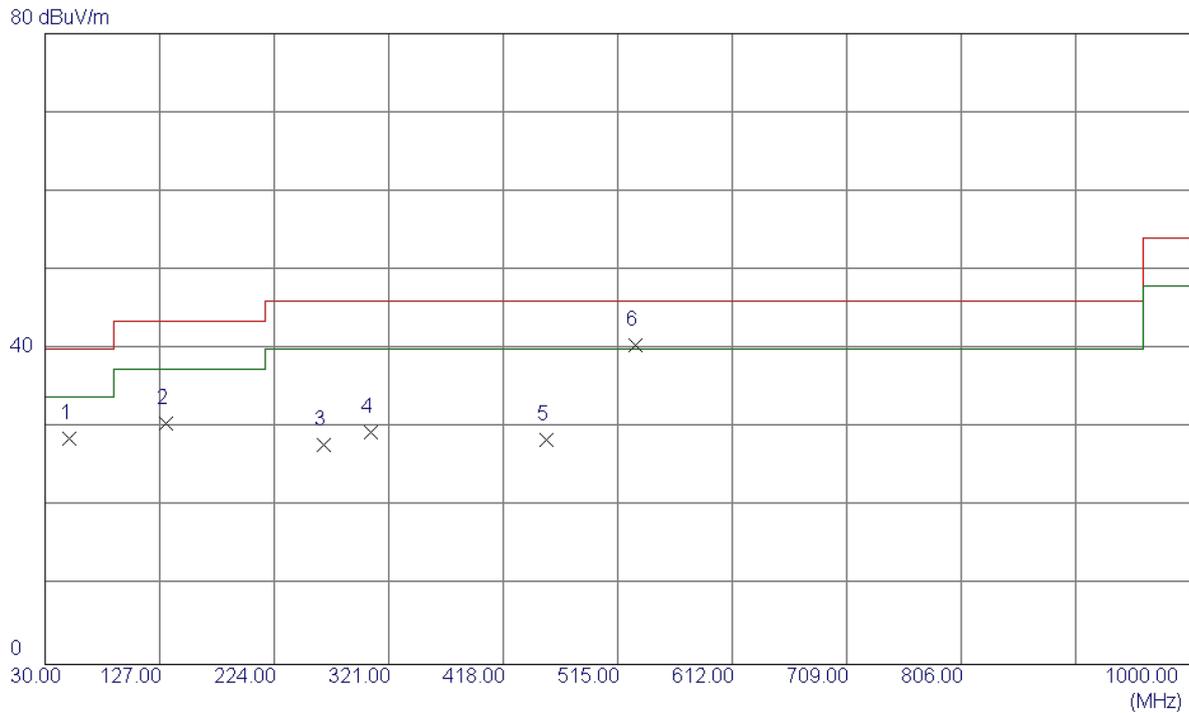
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0093	0°	13.3	24.9777	38.2777	128.2346	-89.9569	AVG
0.0093	0°	14.15	24.9777	39.1277	148.2346	-109.1069	PEAK
0.0262	0°	6.7	23.9073	30.6073	119.2382	-88.6309	AVG
0.0262	0°	8.36	23.9073	32.2673	139.2382	-106.9709	PEAK
0.0357	0°	3.5	23.3057	26.8057	116.5509	-89.7452	AVG
0.0357	0°	5.42	23.3057	28.7257	136.5509	-107.8252	PEAK
0.0548	0°	1.05	22.3040	23.3540	112.8286	-89.4746	AVG
0.0548	0°	2.28	22.3040	24.5840	132.8286	-108.2446	PEAK
0.5102	0°	19.46	19.8326	39.2926	73.4494	-34.1568	QP
1.935	0°	23.8	19.5065	43.3065	69.5400	-26.2335	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0113	90°	13.12	24.3000	37.4200	126.5427	-89.1227	AVG
0.0113	90°	14.75	24.3000	39.0500	146.5427	-107.4927	PEAK
0.0246	90°	7.14	24.0087	31.1487	119.7855	-88.6369	AVG
0.0246	90°	8.8	24.0087	32.8087	139.7855	-106.9769	PEAK
0.042	90°	5.25	22.9067	28.1567	115.1392	-86.9826	AVG
0.042	90°	6.34	22.9067	29.2467	135.1392	-105.8926	PEAK
0.0568	90°	1.29	22.2640	23.5540	112.5173	-88.9633	AVG
0.0568	90°	2.53	22.2640	24.7940	132.5173	-107.7233	PEAK
0.6106	90°	22.2	20.1539	42.3539	71.8891	-29.5352	QP
2.0425	90°	24.36	19.4745	43.8345	69.5400	-25.7055	QP

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

Test Mode: TX B MODE CHANNEL 01

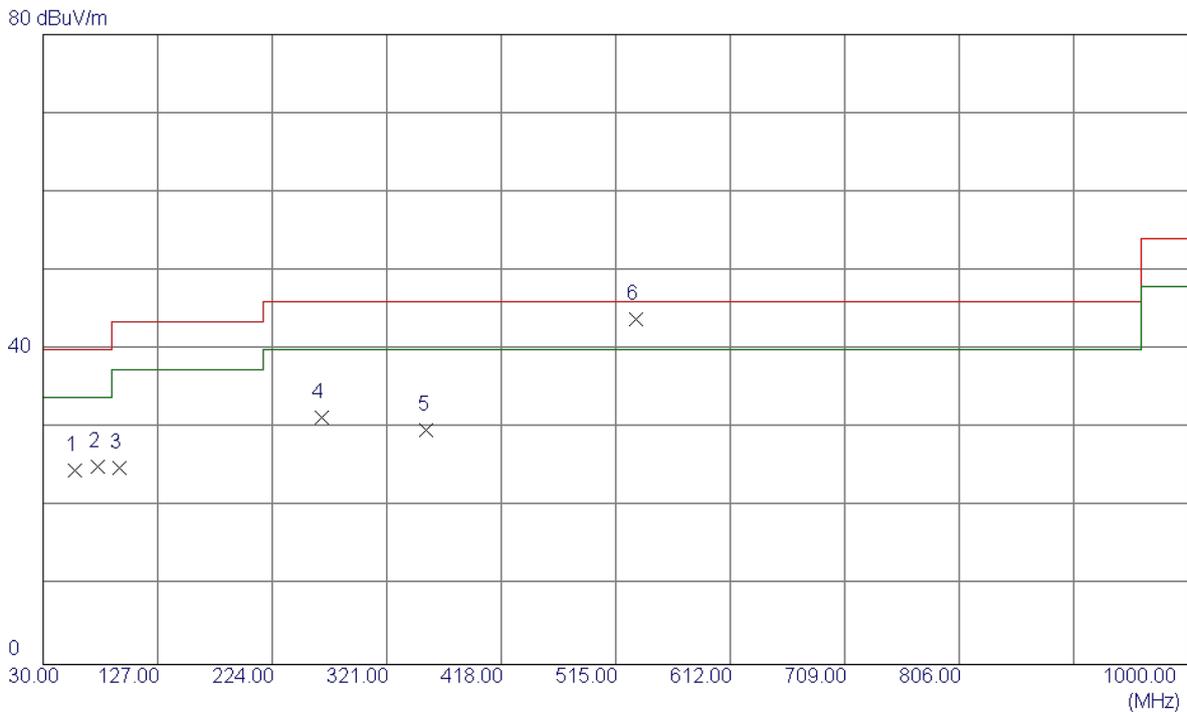
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	50.3700	41.14	-12.48	28.66	40.00	-11.34	Peak	
2	132.8200	42.10	-11.52	30.58	43.50	-12.92	Peak	
3	265.7100	39.97	-12.15	27.82	46.00	-18.18	Peak	
4	305.4800	39.13	-9.62	29.51	46.00	-16.49	Peak	
5	454.8600	34.59	-6.04	28.55	46.00	-17.45	Peak	
6	530.5200	46.11	-5.70	40.41	46.00	-5.59	Peak	

Test Mode: TX B MODE CHANNEL 01

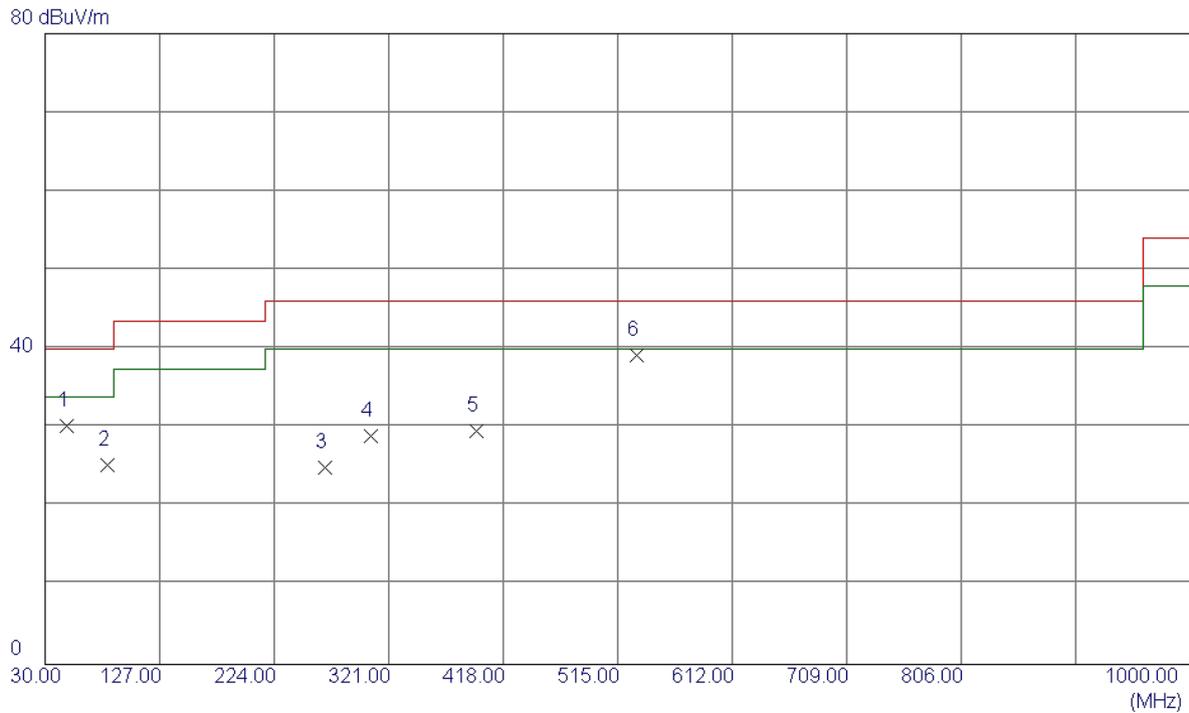
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	57.1600	37.71	-13.02	24.69	40.00	-15.31	Peak	
2	76.5600	40.57	-15.39	25.18	40.00	-14.82	Peak	
3	94.9900	40.40	-15.51	24.89	43.50	-18.61	Peak	
4	265.7100	43.45	-12.15	31.30	46.00	-14.70	Peak	
5	354.9500	39.44	-9.66	29.78	46.00	-16.22	Peak	
6	532.4600	49.51	-5.59	43.92	46.00	-2.08	Peak	

Test Mode: TX B MODE CHANNEL 06

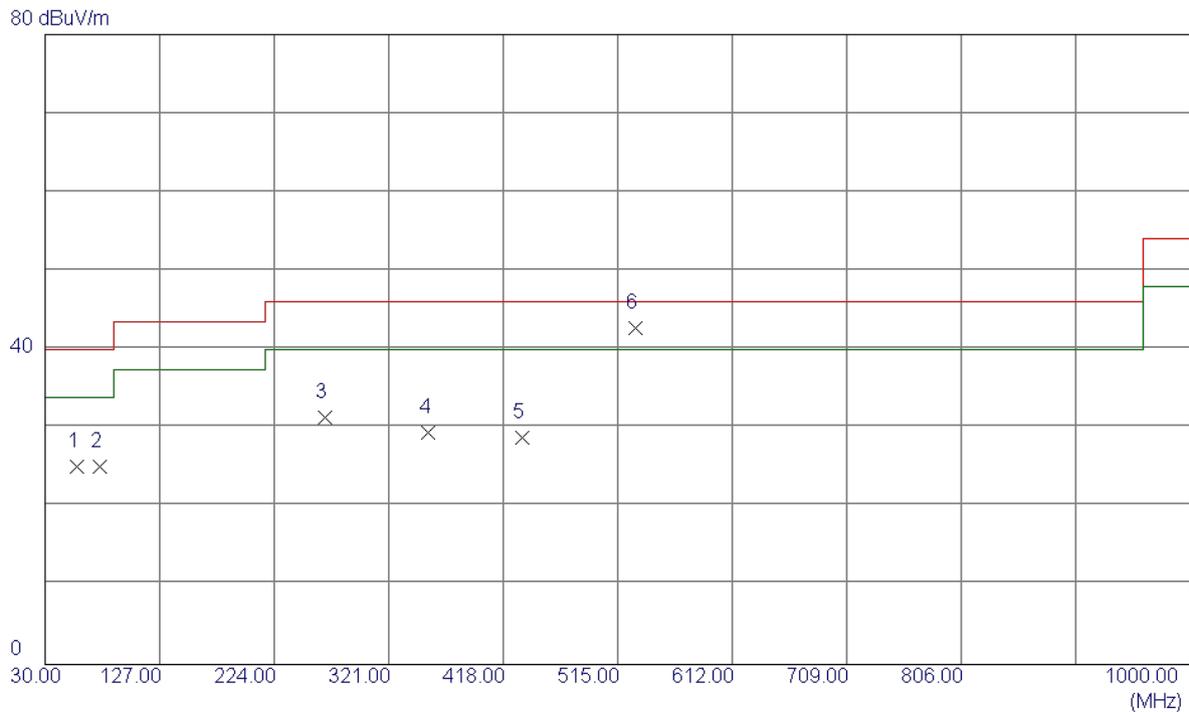
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	48.4300	42.60	-12.39	30.21	40.00	-9.79	Peak	
2	82.3800	41.14	-15.79	25.35	40.00	-14.65	Peak	
3	266.6800	37.02	-12.07	24.95	46.00	-21.05	Peak	
4	305.4800	38.61	-9.62	28.99	46.00	-17.01	Peak	
5	395.6900	37.03	-7.49	29.54	46.00	-16.46	Peak	
6	531.4900	44.87	-5.64	39.23	46.00	-6.77	Peak	

Test Mode: TX B MODE CHANNEL 06

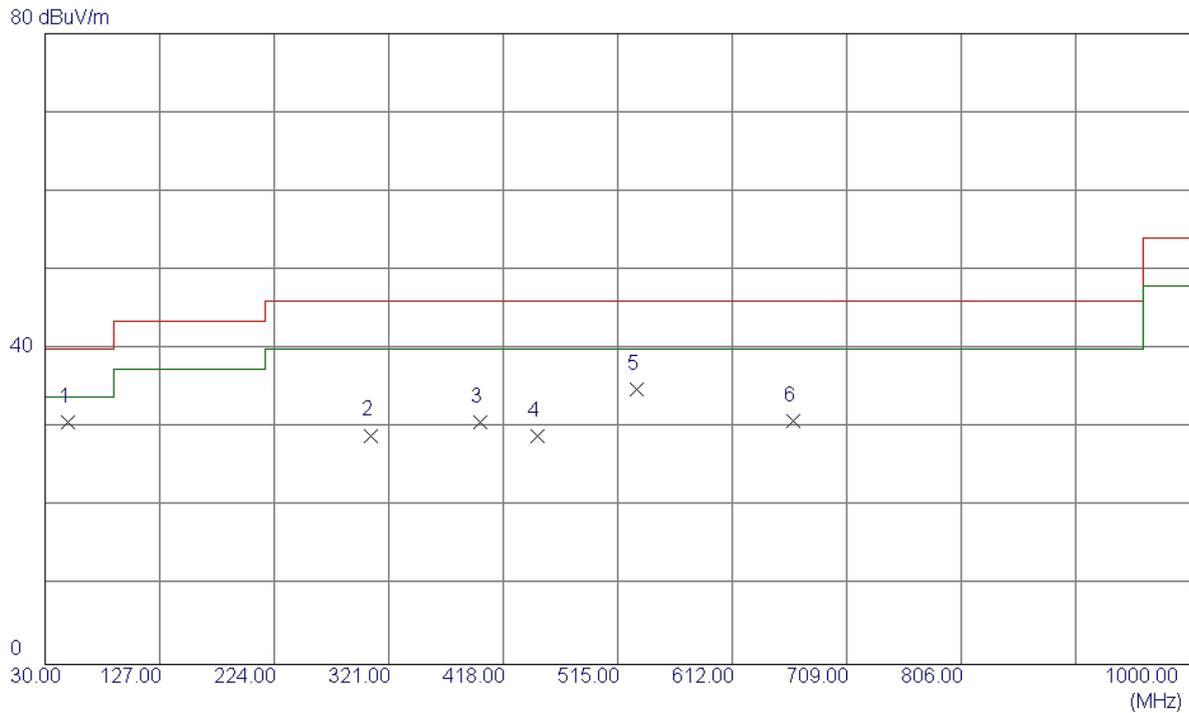
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	57.1600	38.18	-13.02	25.16	40.00	-14.84	Peak	
2	76.5600	40.54	-15.39	25.15	40.00	-14.85	Peak	
3	266.6800	43.39	-12.07	31.32	46.00	-14.68	Peak	
4	354.9500	39.15	-9.66	29.49	46.00	-16.51	Peak	
5	434.4900	35.07	-6.32	28.75	46.00	-17.25	Peak	
6	530.5200	48.38	-5.70	42.68	46.00	-3.32	Peak	

Test Mode: TX B MODE CHANNEL 11

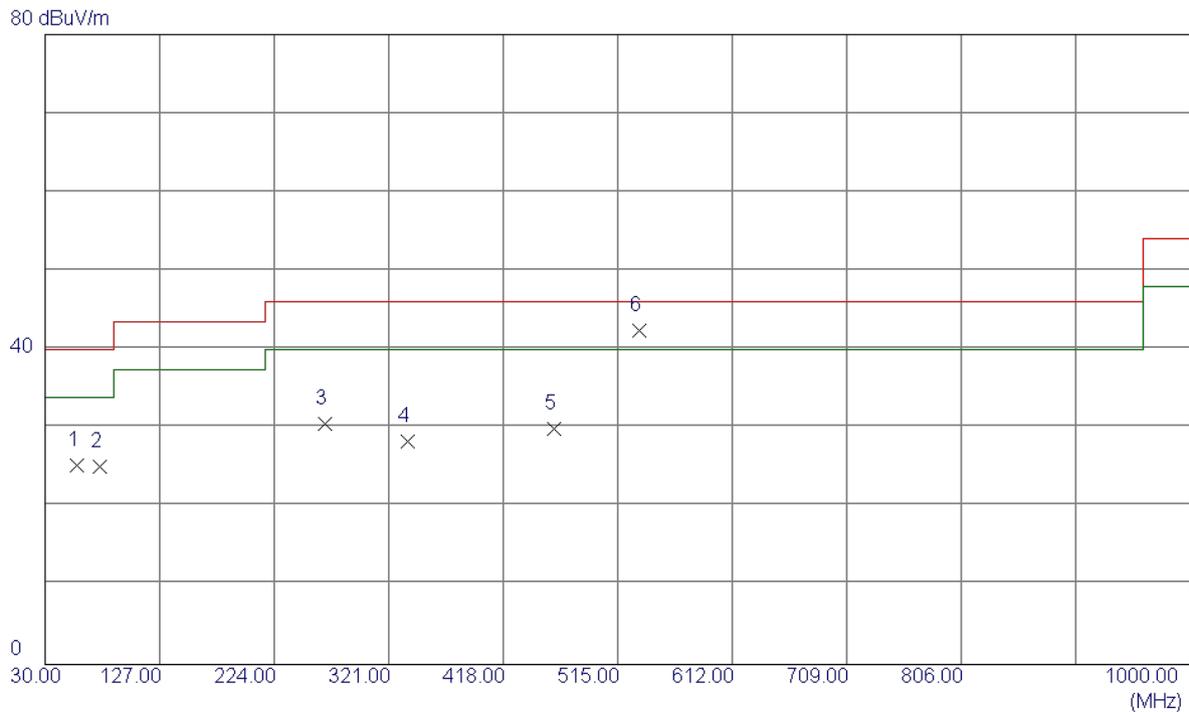
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	49.4000	43.09	-12.43	30.66	40.00	-9.34	Peak	
2	305.4800	38.66	-9.62	29.04	46.00	-16.96	Peak	
3	398.6000	38.01	-7.34	30.67	46.00	-15.33	Peak	
4	447.1000	34.90	-5.97	28.93	46.00	-17.07	Peak	
5	531.4900	40.53	-5.64	34.89	46.00	-11.11	Peak	
6	663.4099	32.50	-1.59	30.91	46.00	-15.09	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

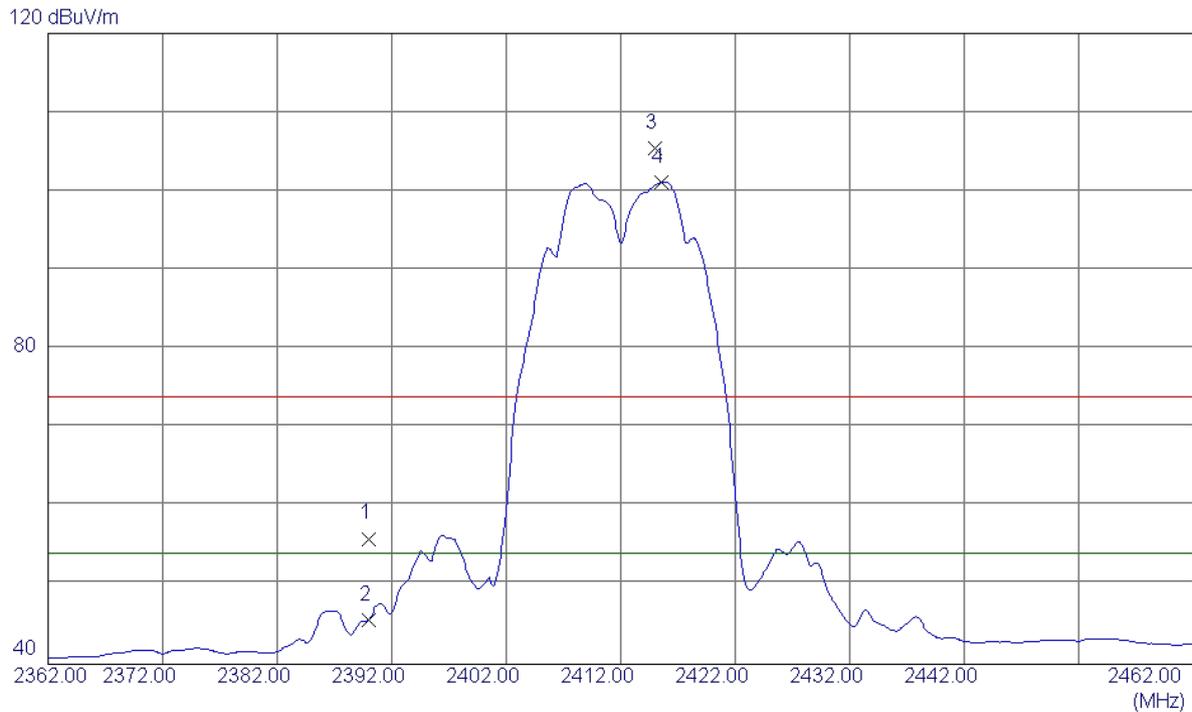


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	57.1600	38.31	-13.02	25.29	40.00	-14.71	Peak	
2	76.5600	40.49	-15.39	25.10	40.00	-14.90	Peak	
3	266.6800	42.62	-12.07	30.55	46.00	-15.45	Peak	
4	337.4900	38.09	-9.84	28.25	46.00	-17.75	Peak	
5	460.6800	36.09	-6.21	29.88	46.00	-16.12	Peak	
6	533.4300	48.00	-5.54	42.46	46.00	-3.54	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

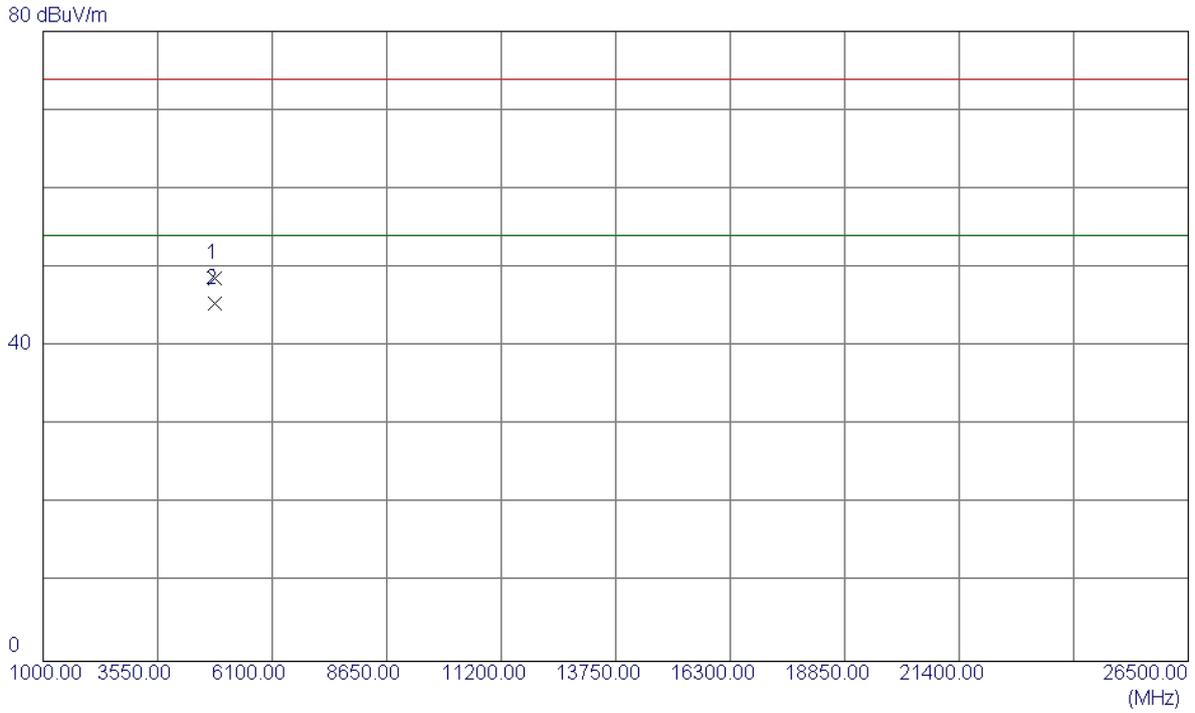
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	21.69	34.23	55.92	74.00	-18.08	Peak	
2	2390.0000	11.44	34.23	45.67	54.00	-8.33	AVG	
3	2415.0000	70.99	34.38	105.37	74.00	31.37	Peak	No Limit
4	2415.6000	66.79	34.38	101.17	54.00	47.17	AVG	No Limit

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

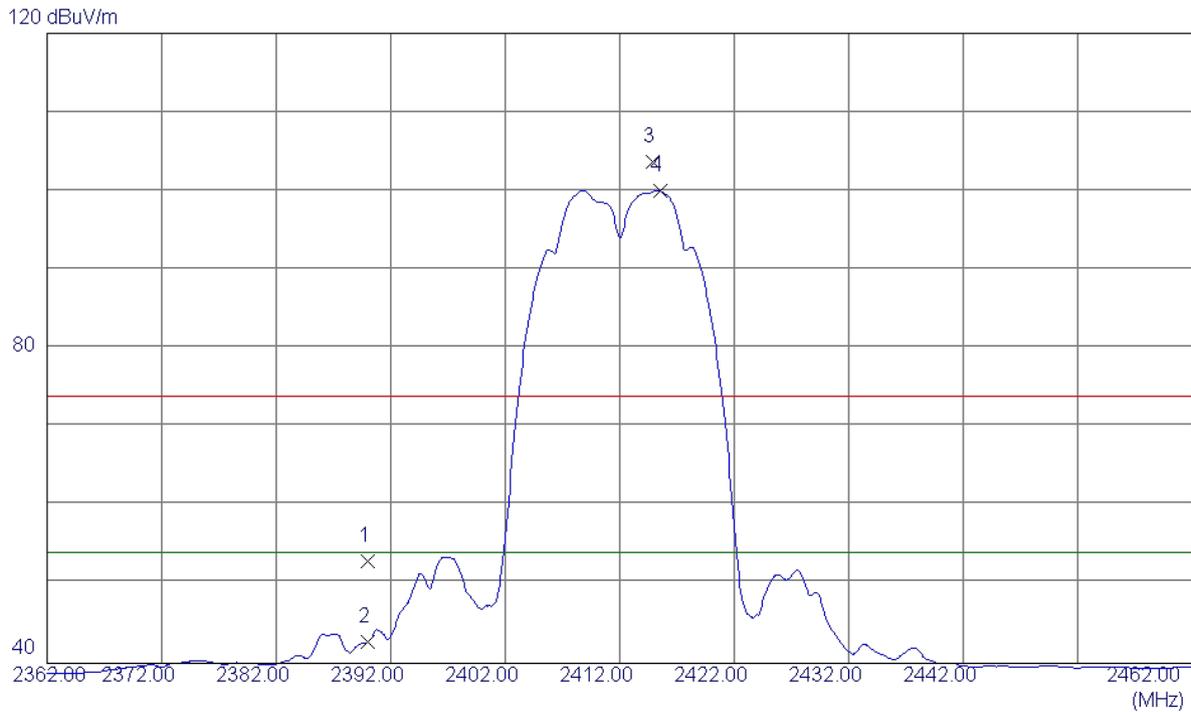
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0400	45.67	3.00	48.67	74.00	-25.33	Peak	
2	4824.0400	42.43	3.00	45.43	54.00	-8.57	AVG	

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

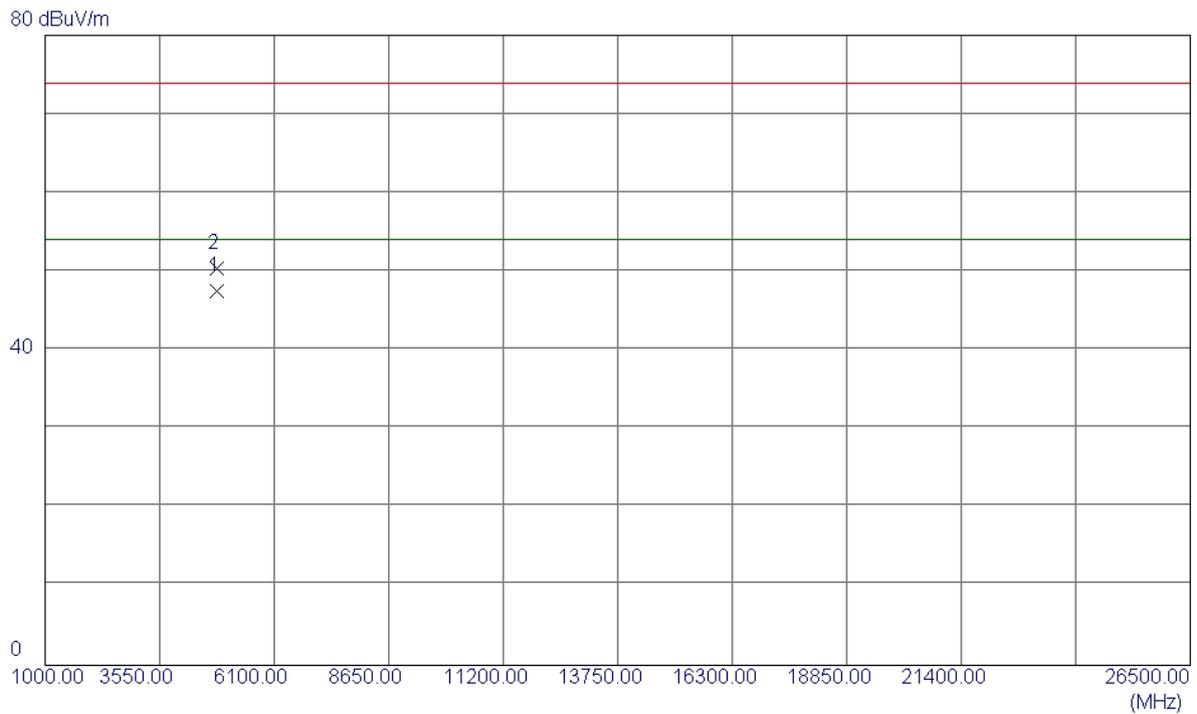
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	18.69	34.23	52.92	74.00	-21.08	Peak	
2	2390.0000	8.51	34.23	42.74	54.00	-11.26	AVG	
3	2414.9000	69.37	34.38	103.75	74.00	29.75	Peak	No Limit
4	2415.6000	65.60	34.38	99.98	54.00	45.98	AVG	No Limit

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

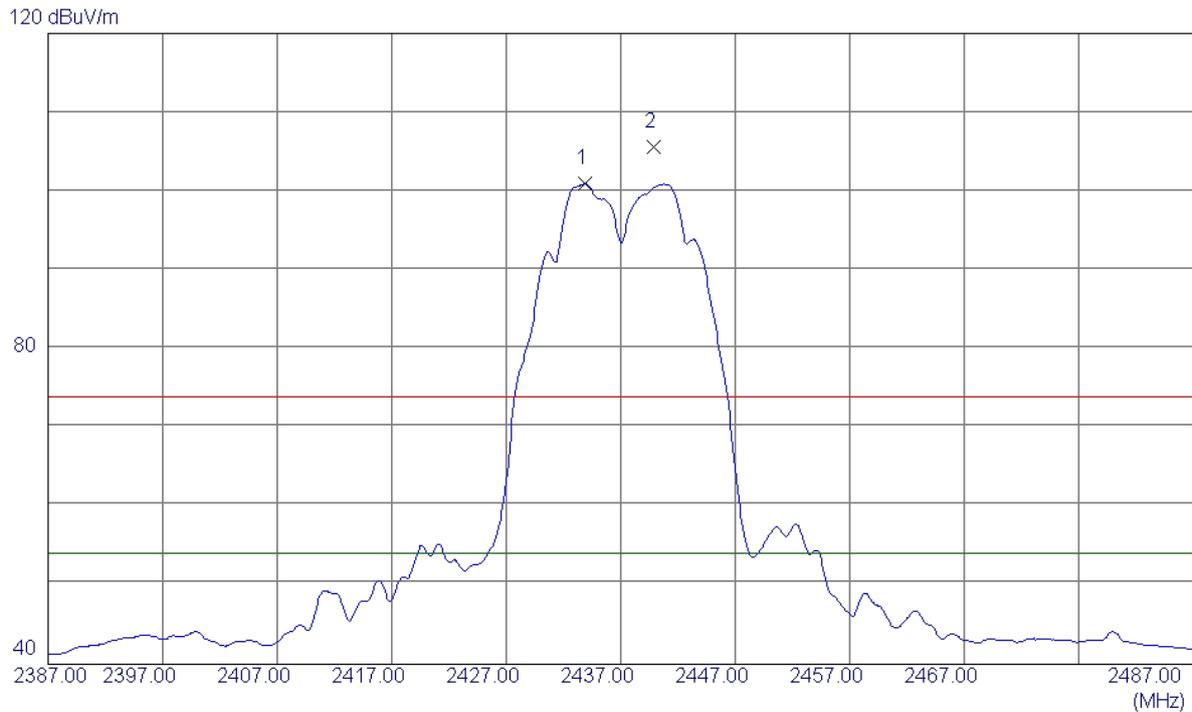
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.0000	44.49	3.00	47.49	54.00	-6.51	AVG	
2	4824.0400	47.41	3.00	50.41	74.00	-23.59	Peak	

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

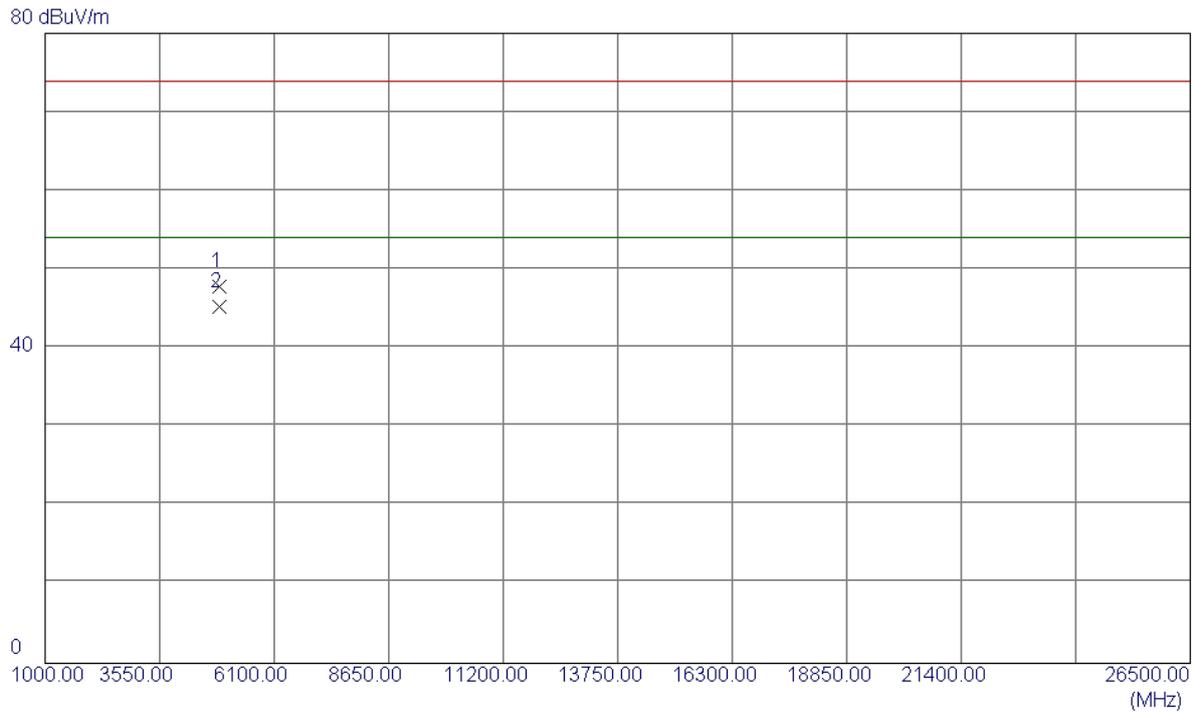
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.9000	66.47	34.49	100.96	54.00	46.96	AVG	No Limit
2	2439.9000	71.02	34.52	105.54	74.00	31.54	Peak	No Limit

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

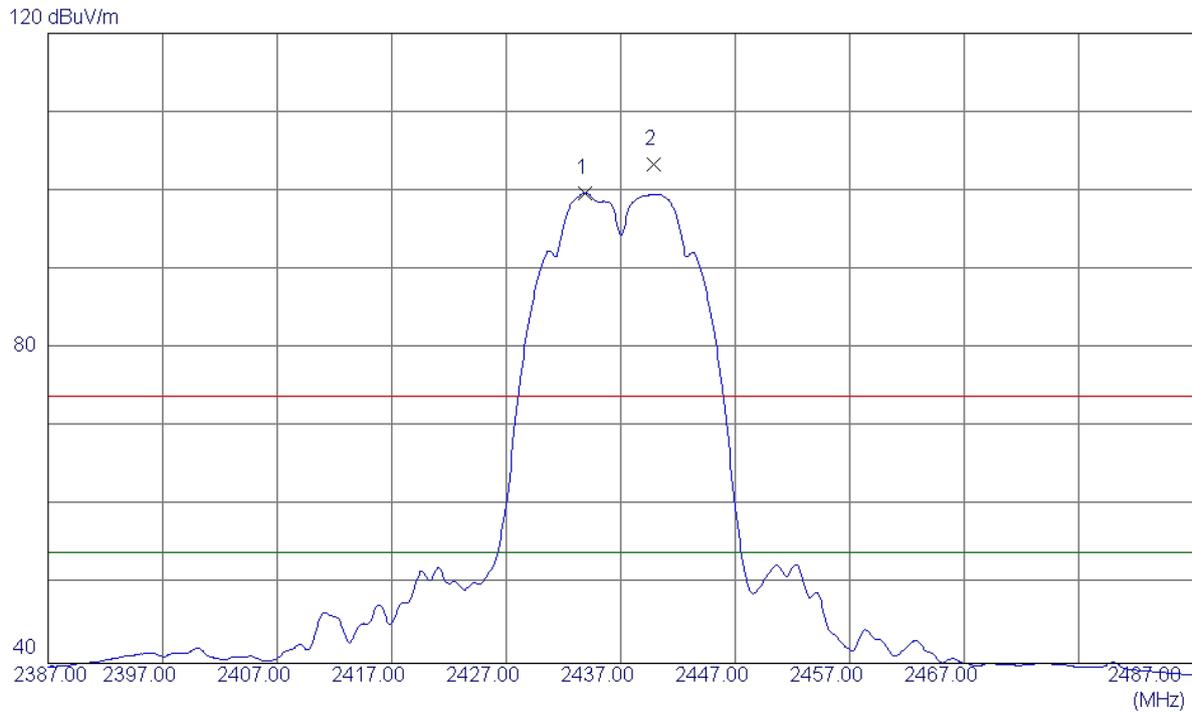
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.1200	44.85	3.03	47.88	74.00	-26.12	Peak	
2	4874.3000	42.18	3.03	45.21	54.00	-8.79	AVG	

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

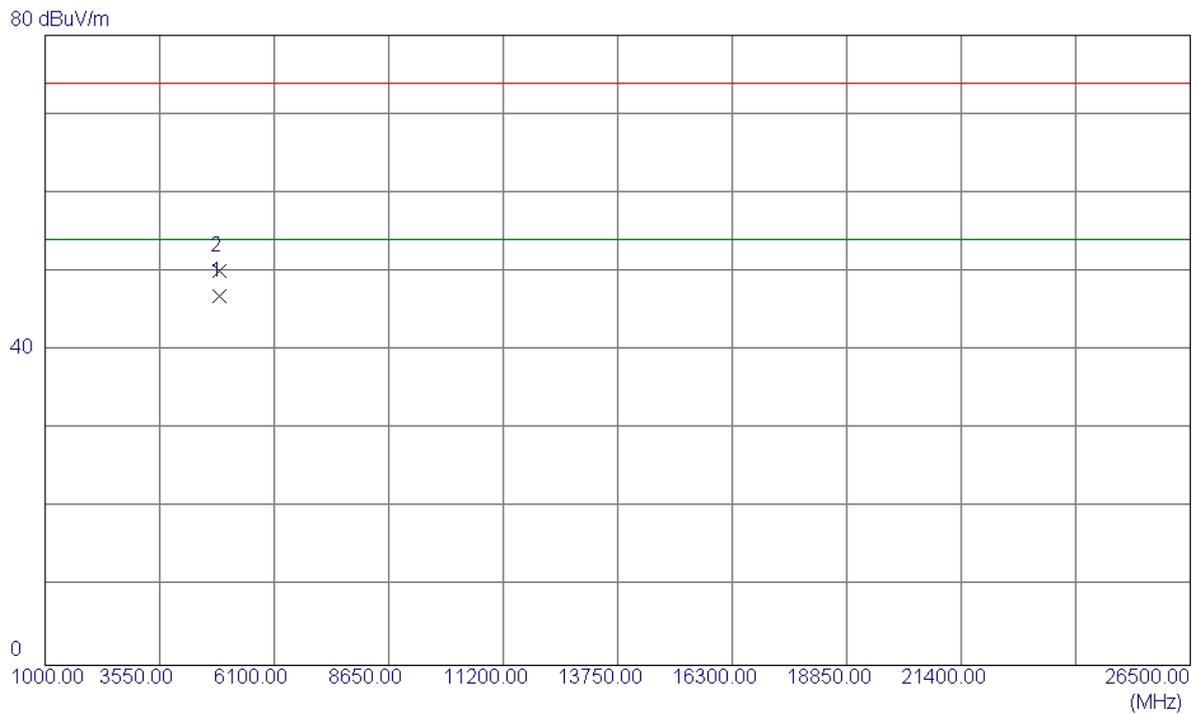
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2433.9000	65.23	34.49	99.72	54.00	45.72	AVG	No Limit
2	2439.9000	68.85	34.52	103.37	74.00	29.37	Peak	No Limit

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

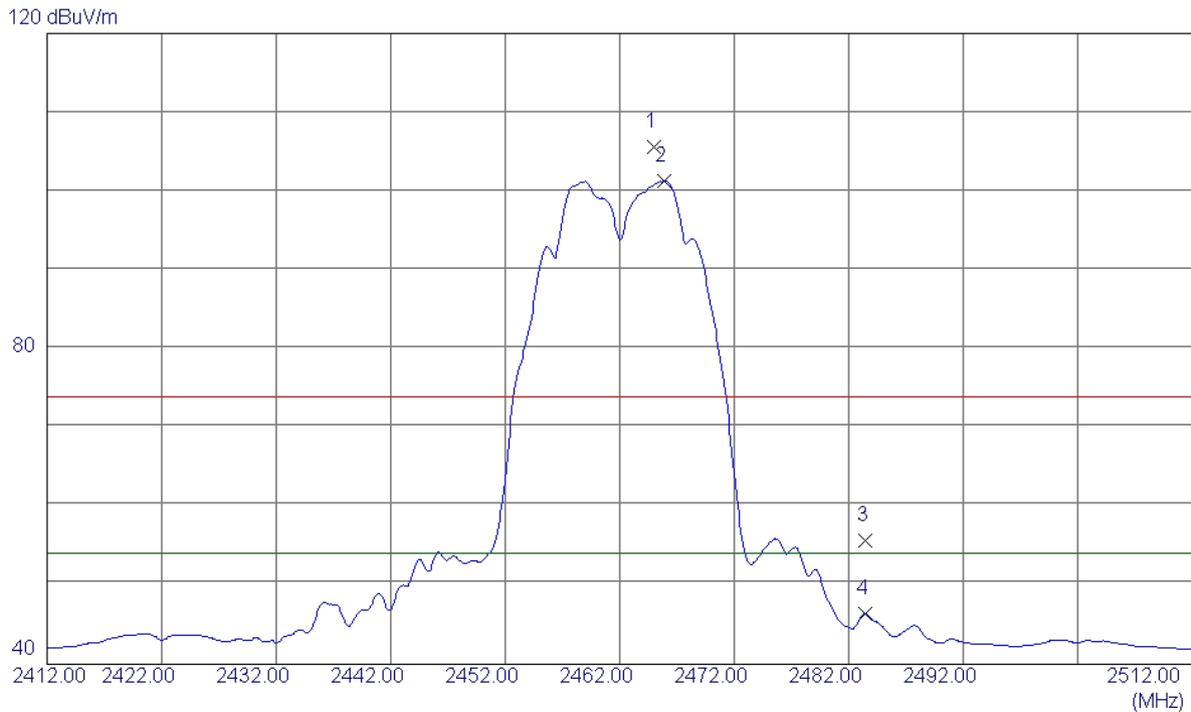
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.8500	43.90	3.03	46.93	54.00	-7.07	AVG	
2	4874.0200	47.08	3.03	50.11	74.00	-23.89	Peak	

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

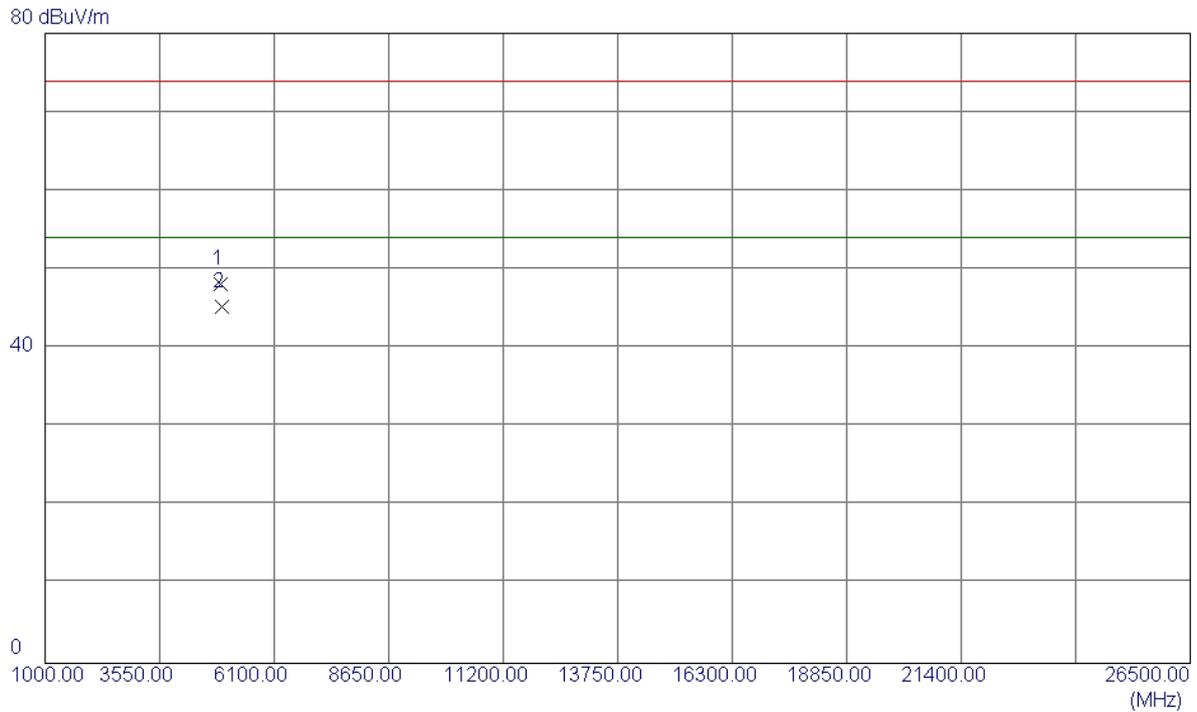
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2465.0000	70.89	34.67	105.56	74.00	31.56	Peak	No Limit
2	2465.9000	66.61	34.67	101.28	54.00	47.28	AVG	No Limit
3	2483.5000	20.90	34.77	55.67	74.00	-18.33	Peak	
4	2483.5000	11.59	34.77	46.36	54.00	-7.64	AVG	

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

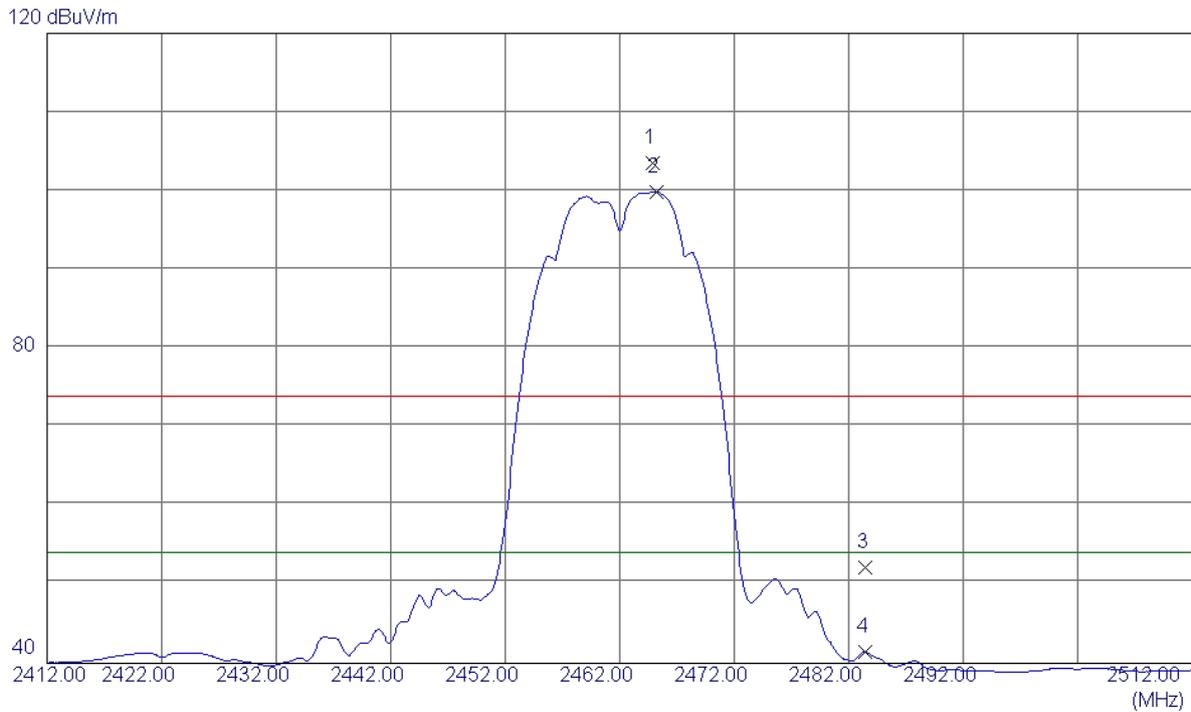
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.6000	45.11	3.05	48.16	74.00	-25.84	Peak	
2	4924.3000	42.16	3.05	45.21	54.00	-8.79	AVG	

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

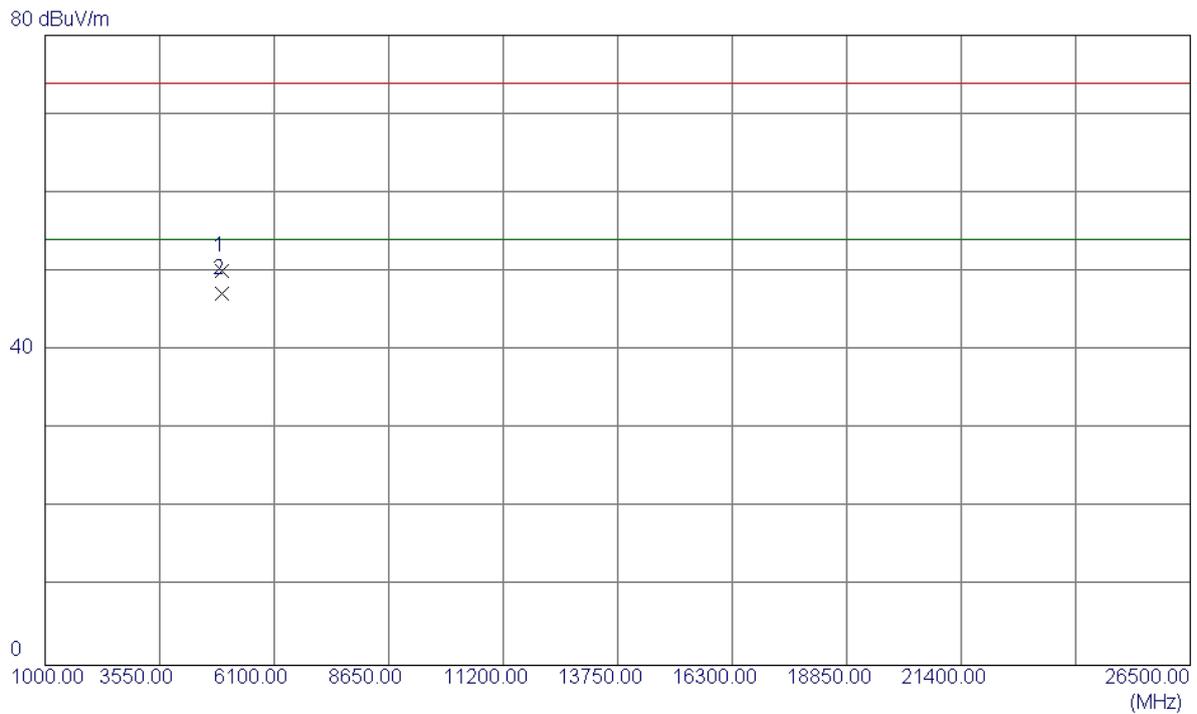
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.9000	68.82	34.67	103.49	74.00	29.49	Peak	No Limit
2	2465.2000	65.22	34.67	99.89	54.00	45.89	AVG	No Limit
3	2483.5000	17.38	34.77	52.15	74.00	-21.85	Peak	
4	2483.5000	6.73	34.77	41.50	54.00	-12.50	AVG	

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

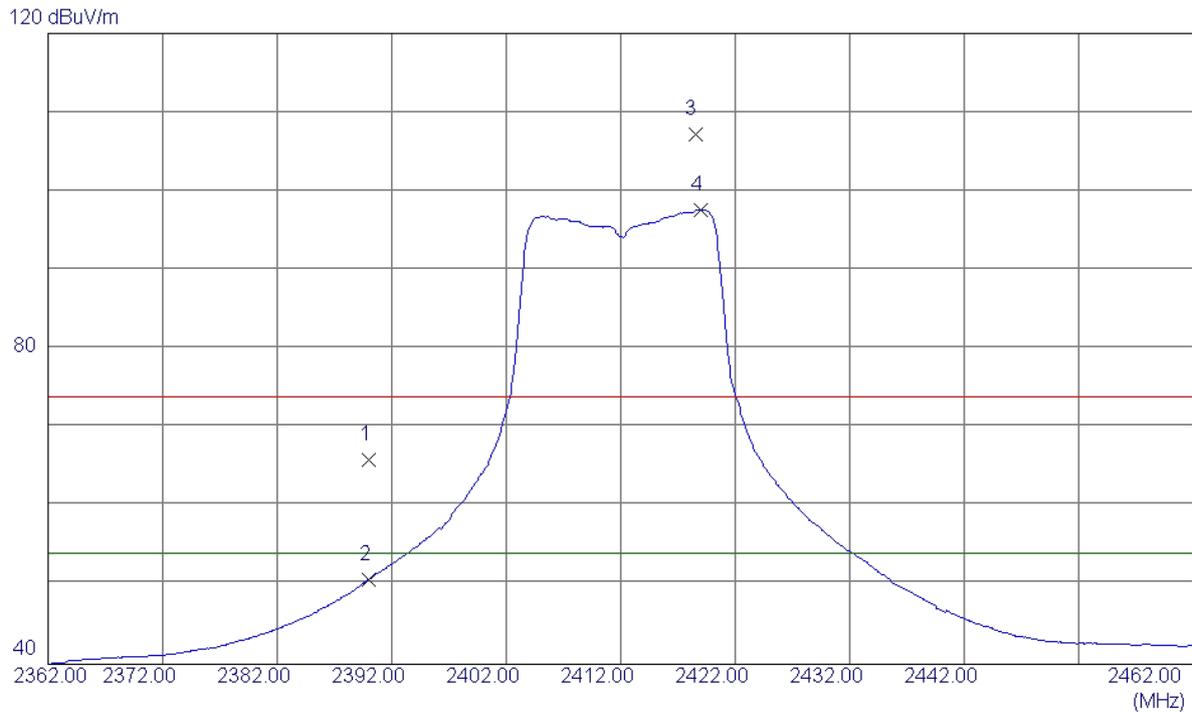
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.3000	46.96	3.05	50.01	74.00	-23.99	Peak	
2	4924.7500	44.21	3.05	47.26	54.00	-6.74	AVG	

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

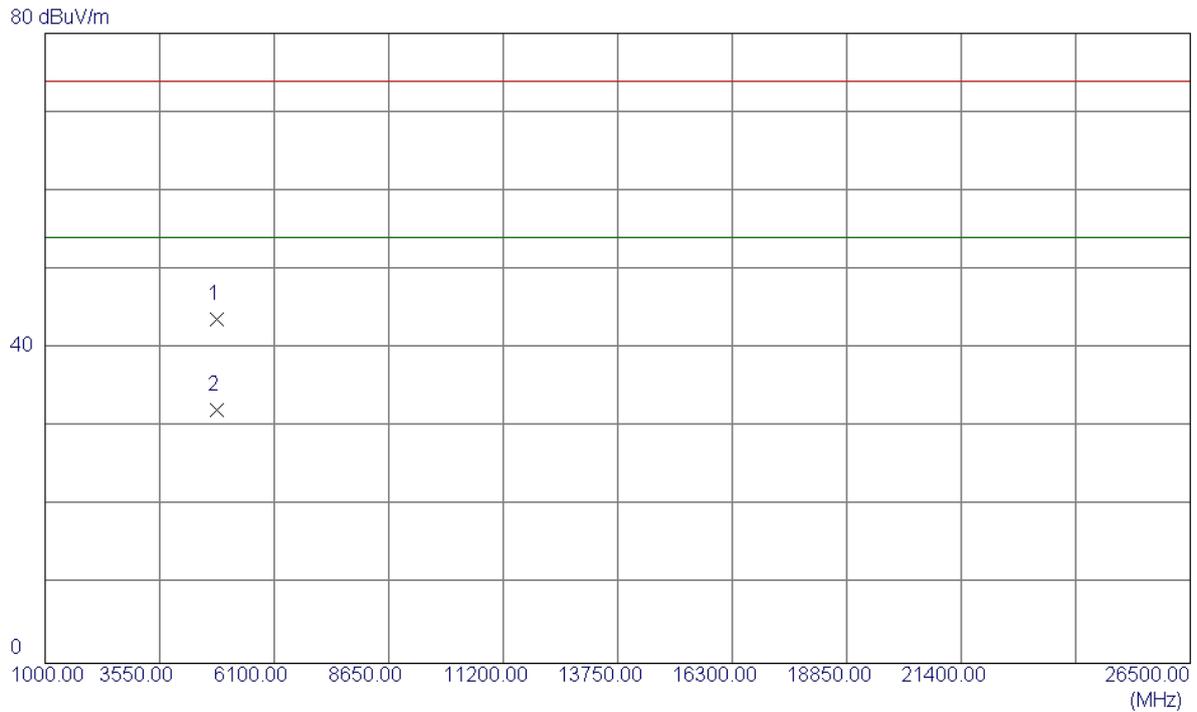
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	31.72	34.23	65.95	74.00	-8.05	Peak	
2	2390.0000	16.51	34.23	50.74	54.00	-3.26	AVG	
3	2418.5000	72.79	34.40	107.19	74.00	33.19	Peak	No Limit
4	2419.0000	63.24	34.40	97.64	54.00	43.64	AVG	No Limit

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

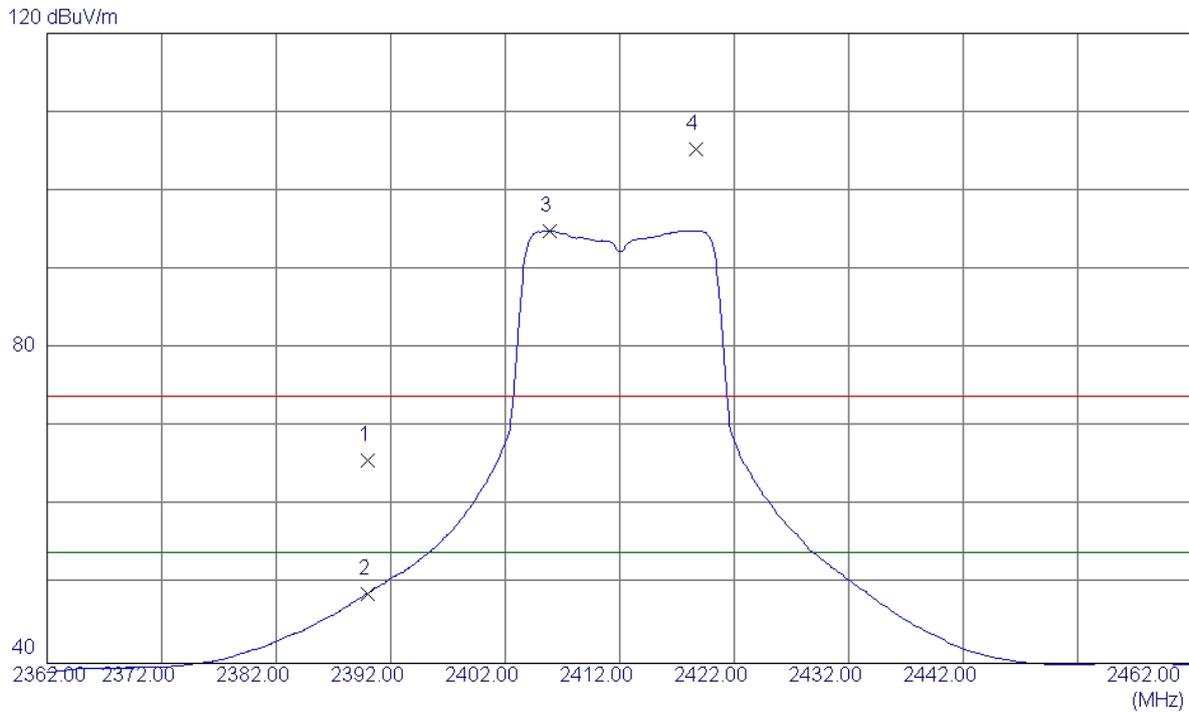
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9200	40.64	3.00	43.64	74.00	-30.36	Peak	
2	4824.7000	29.11	3.00	32.11	54.00	-21.89	AVG	

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

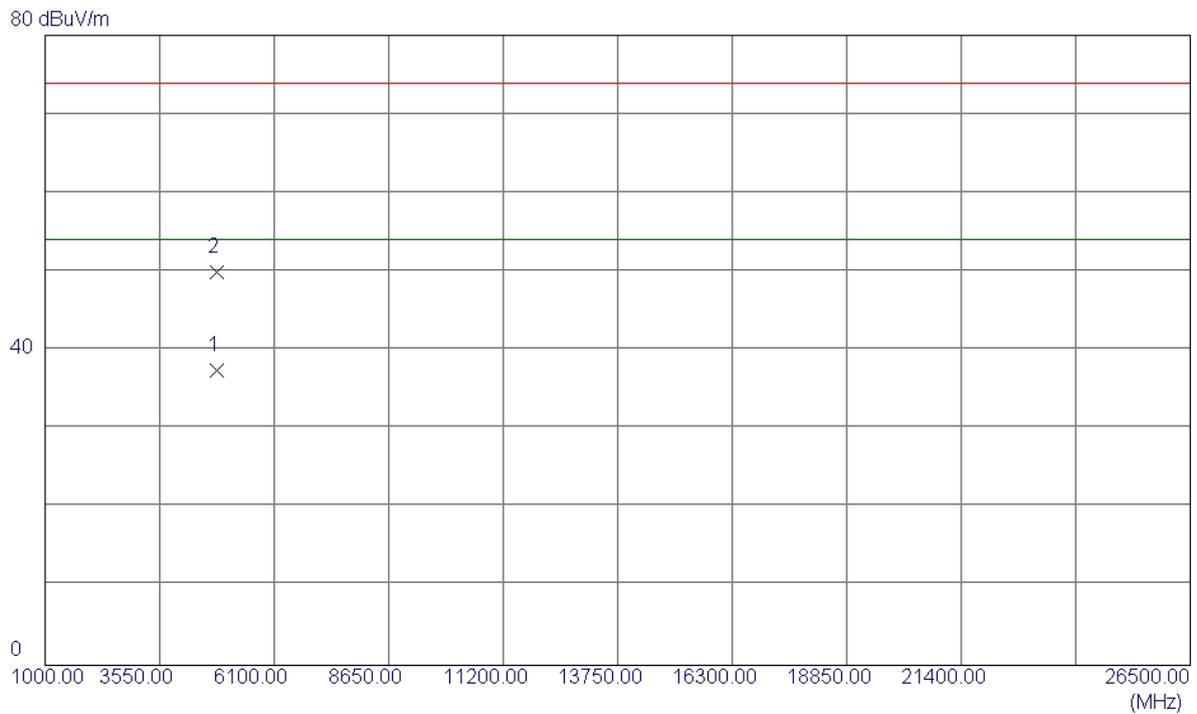
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	31.47	34.23	65.70	74.00	-8.30	Peak	
2	2390.0000	14.62	34.23	48.85	54.00	-5.15	AVG	
3	2405.9000	60.63	34.32	94.95	54.00	40.95	AVG	No Limit
4	2418.7000	70.84	34.40	105.24	74.00	31.24	Peak	No Limit

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

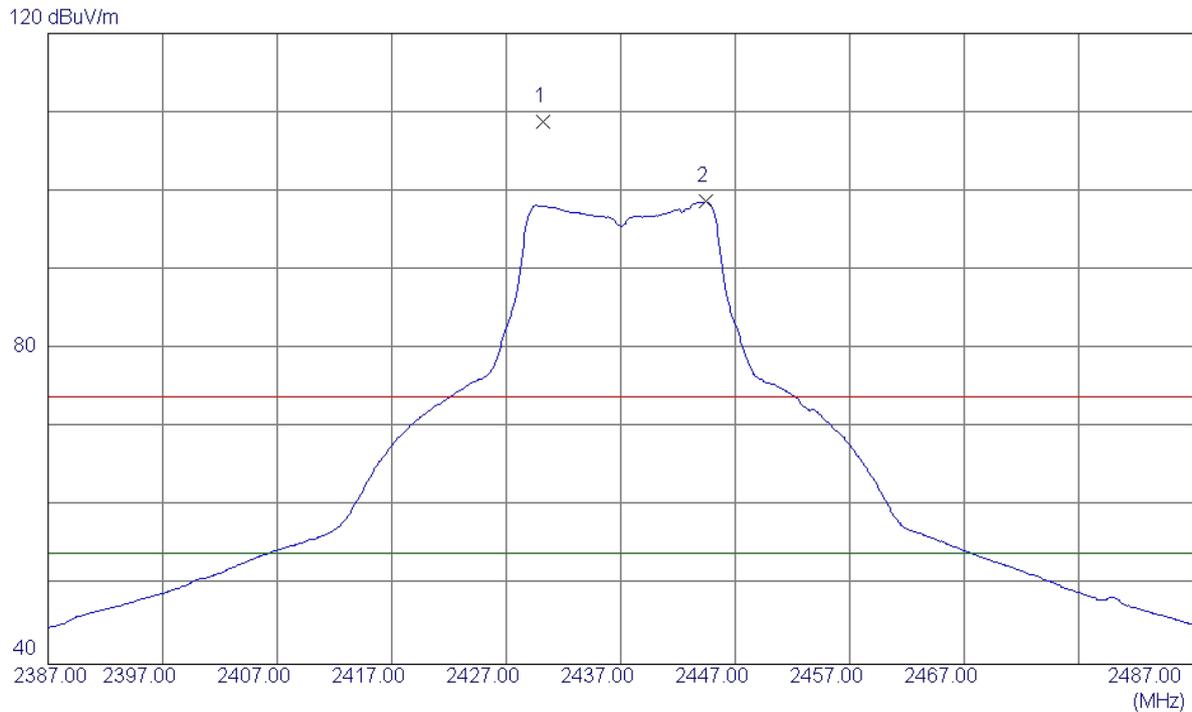
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.0000	34.46	3.00	37.46	54.00	-16.54	AVG	
2	4824.2000	46.97	3.00	49.97	74.00	-24.03	Peak	

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

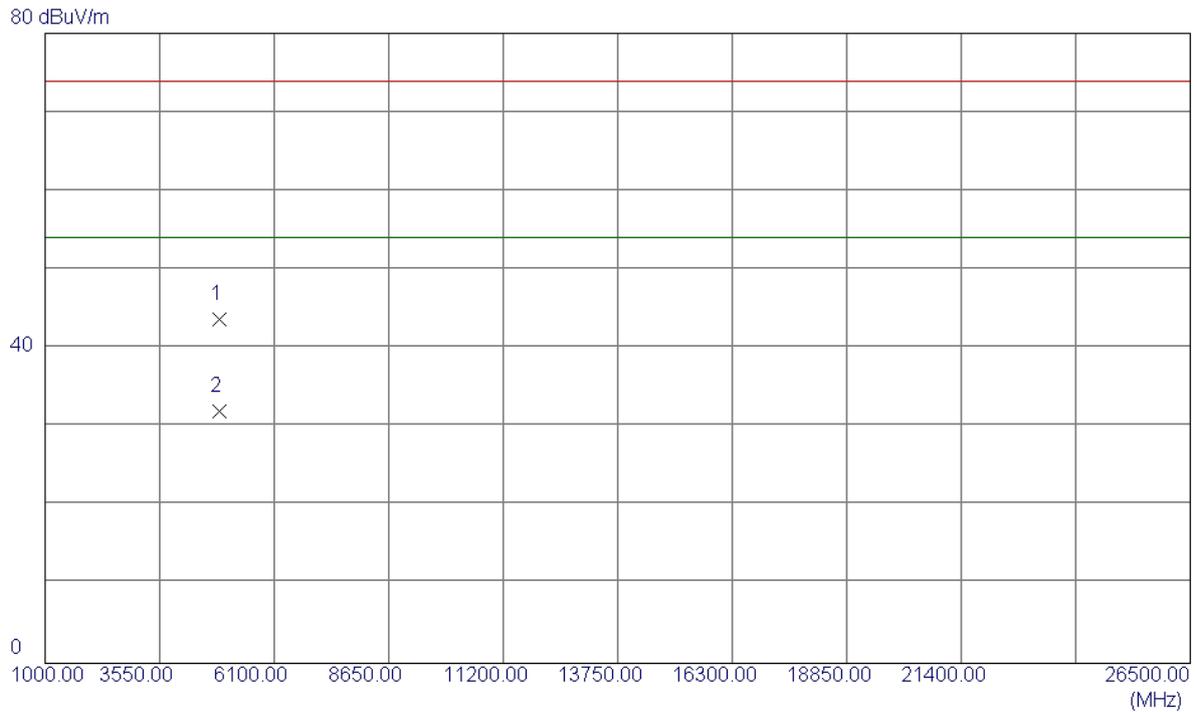
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2430.2000	74.26	34.47	108.73	74.00	34.73	Peak	No Limit
2	2444.4000	64.10	34.55	98.65	54.00	44.65	AVG	No Limit

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

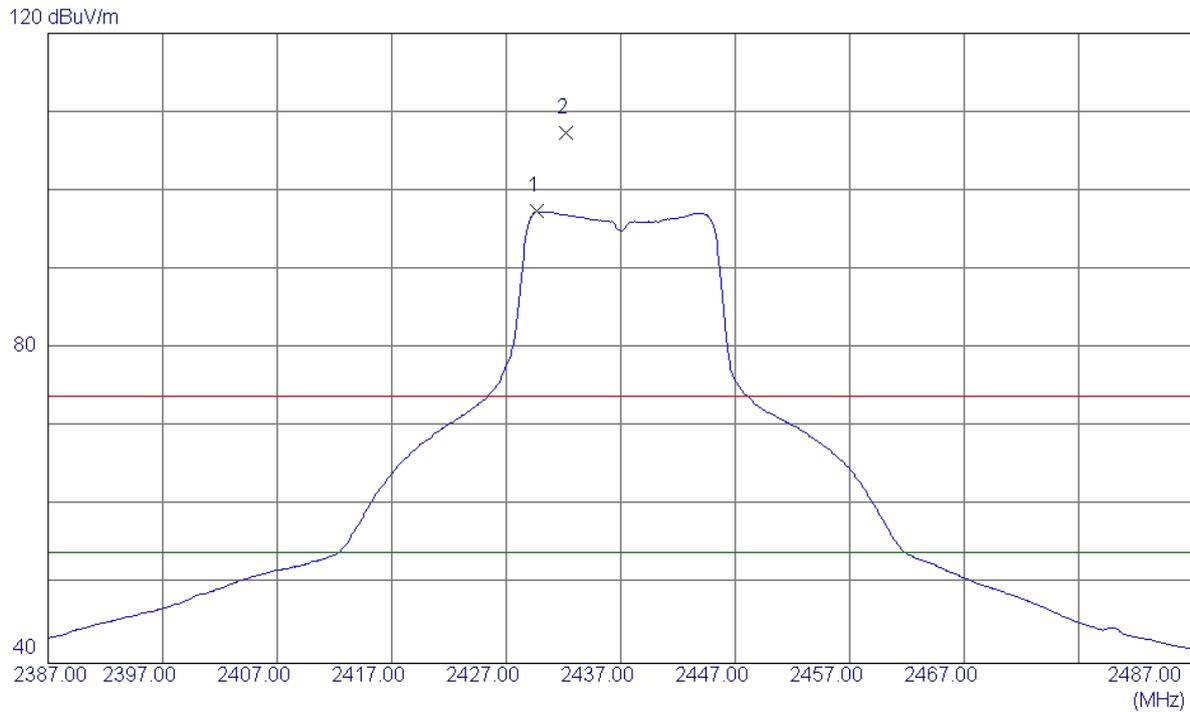
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9200	40.61	3.03	43.64	74.00	-30.36	Peak	
2	4874.7000	29.02	3.03	32.05	54.00	-21.95	AVG	

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

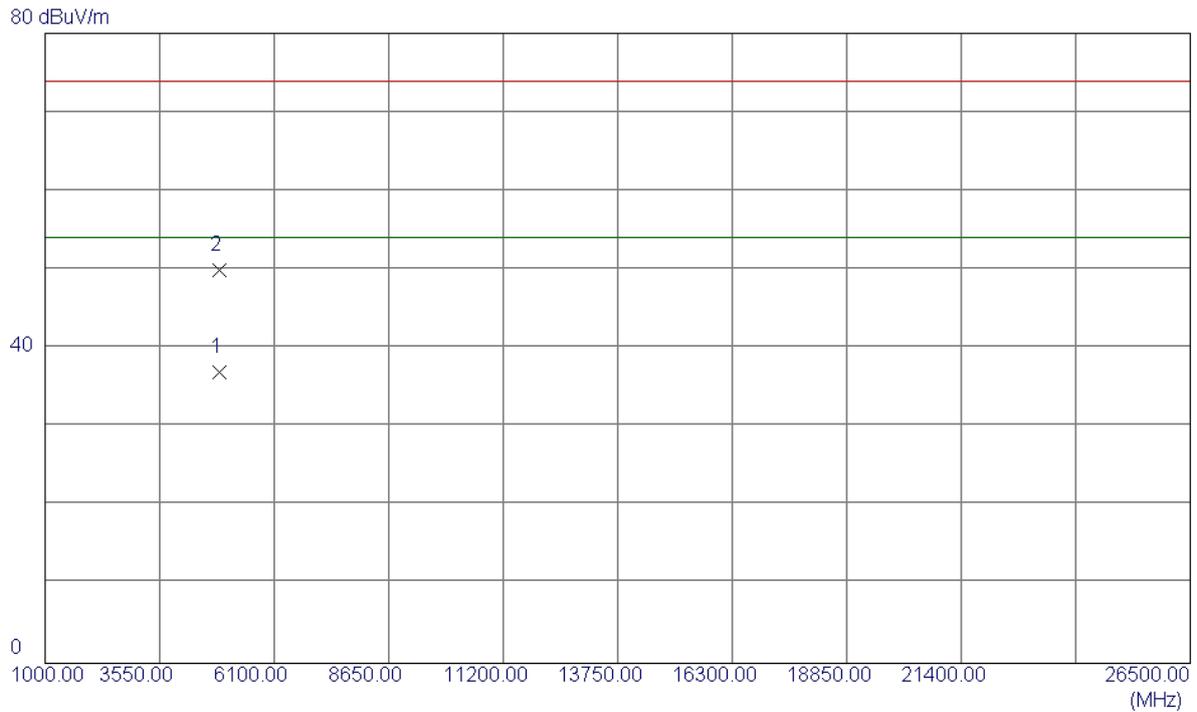
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2429.7000	62.94	34.46	97.40	54.00	43.40	AVG	No Limit
2	2432.2000	72.93	34.48	107.41	74.00	33.41	Peak	No Limit

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

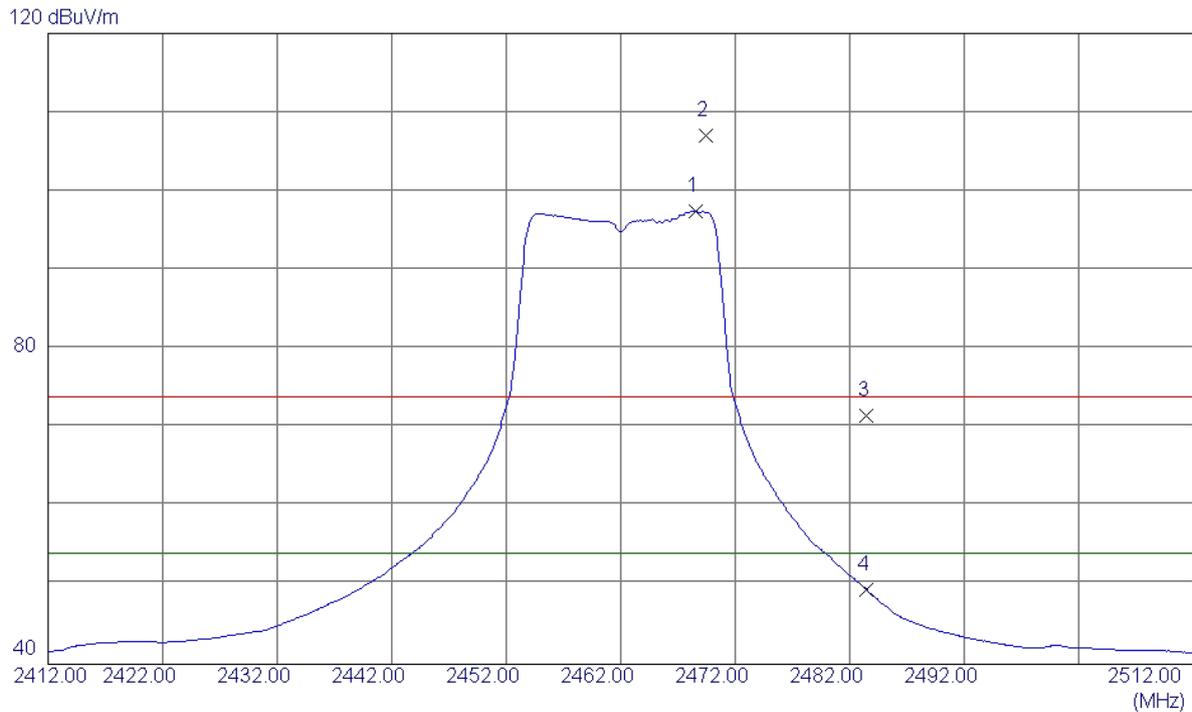
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.0000	33.98	3.03	37.01	54.00	-16.99	AVG	
2	4874.2100	46.94	3.03	49.97	74.00	-24.03	Peak	

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

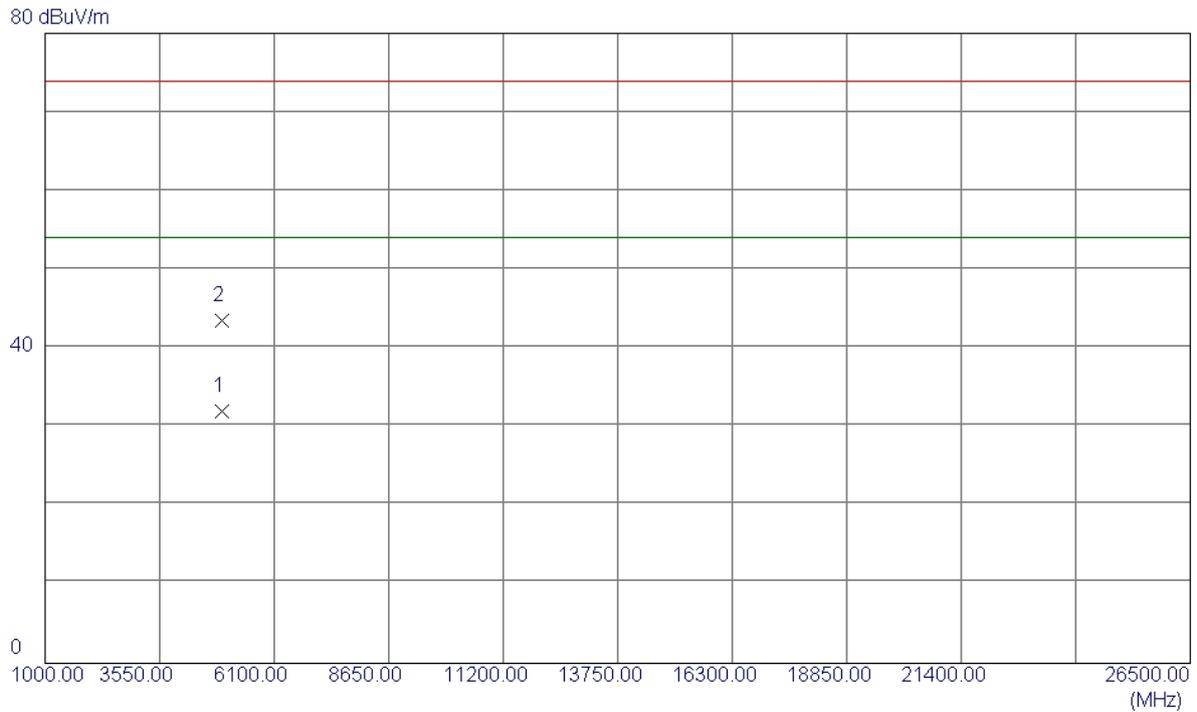
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2468.6000	62.78	34.69	97.47	54.00	43.47	AVG	No Limit
2	2469.4000	72.36	34.69	107.05	74.00	33.05	Peak	No Limit
3	2483.5000	36.74	34.77	71.51	74.00	-2.49	Peak	
4	2483.5000	14.66	34.77	49.43	54.00	-4.57	AVG	

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

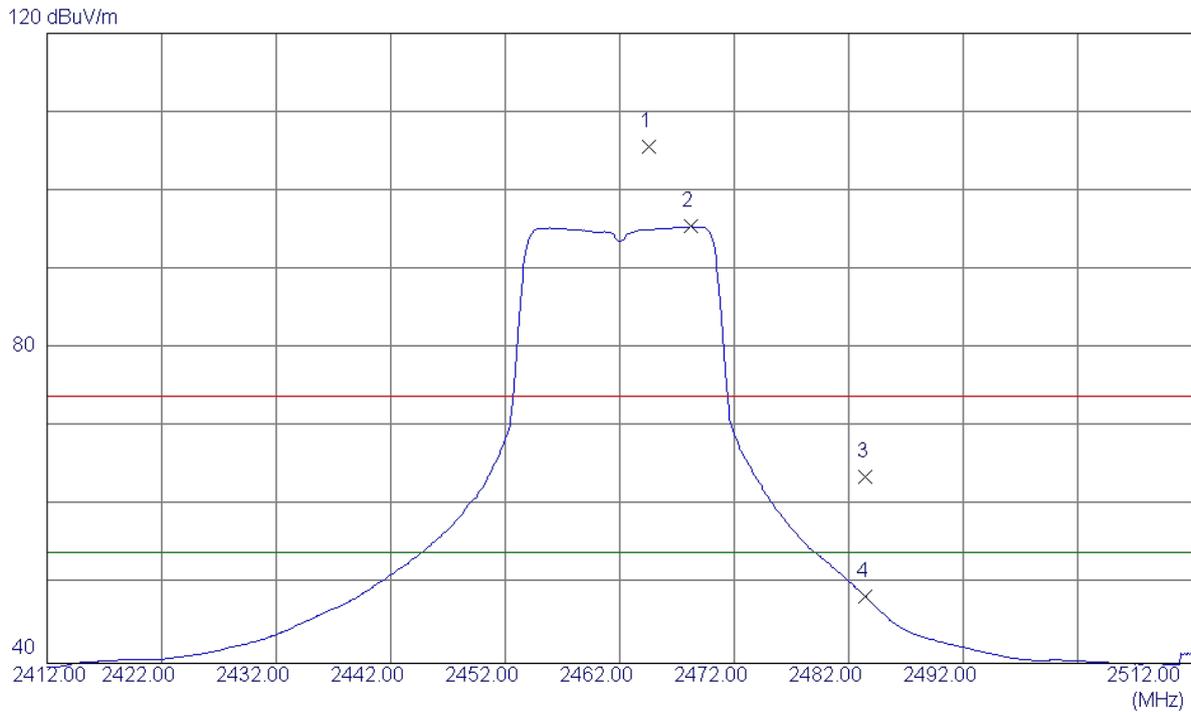
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.6300	29.00	3.05	32.05	54.00	-21.95	AVG	
2	4924.9200	40.49	3.05	43.54	74.00	-30.46	Peak	

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

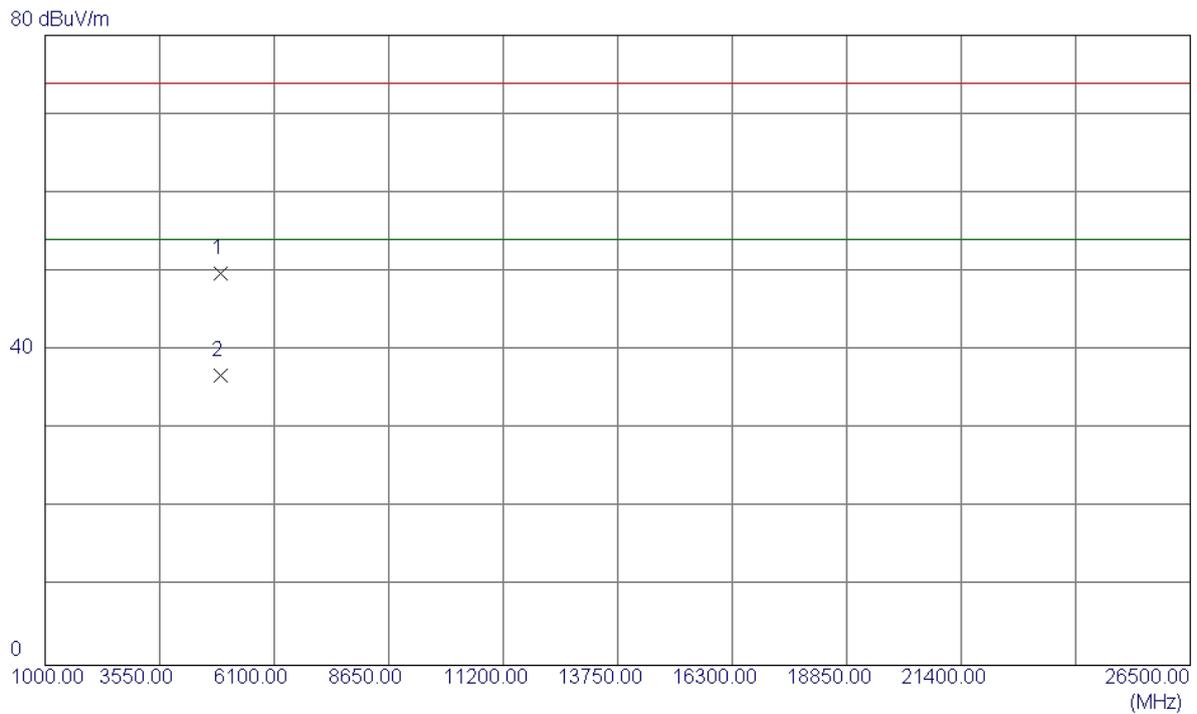
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2464.6000	70.88	34.66	105.54	74.00	31.54	Peak	No Limit
2	2468.2000	60.79	34.69	95.48	54.00	41.48	AVG	No Limit
3	2483.5000	28.91	34.77	63.68	74.00	-10.32	Peak	
4	2483.5000	13.64	34.77	48.41	54.00	-5.59	AVG	

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

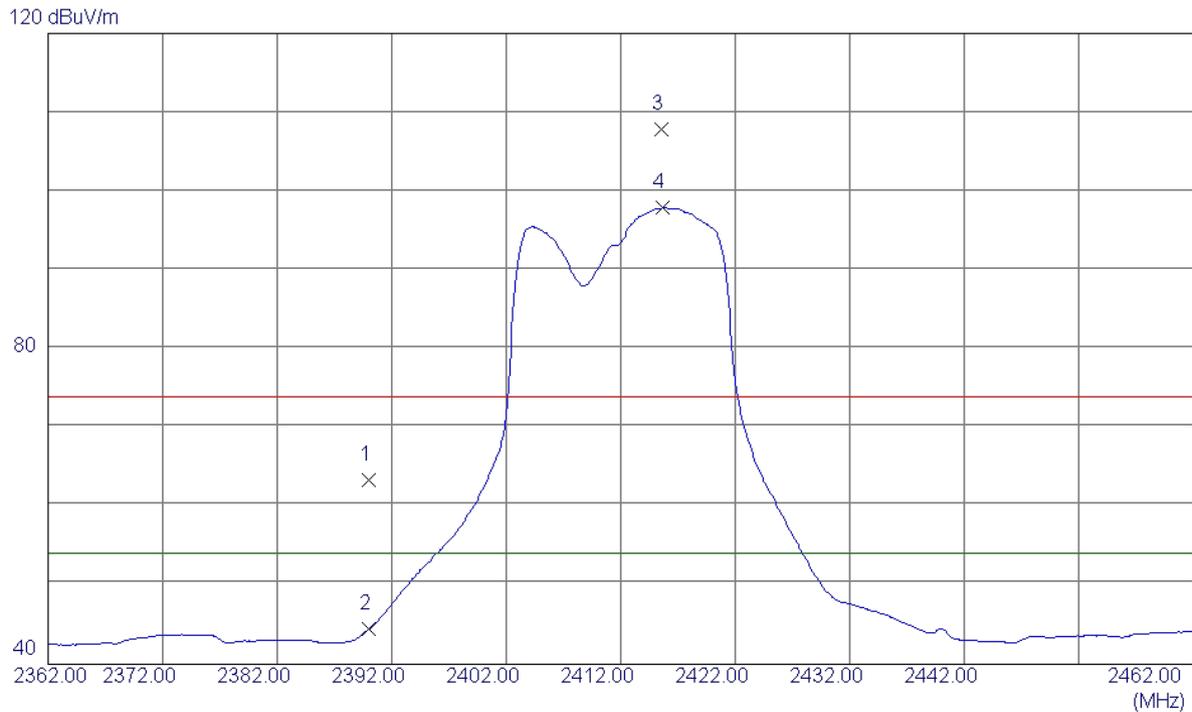
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.2000	46.69	3.05	49.74	74.00	-24.26	Peak	
2	4923.4100	33.79	3.05	36.84	54.00	-17.16	AVG	

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

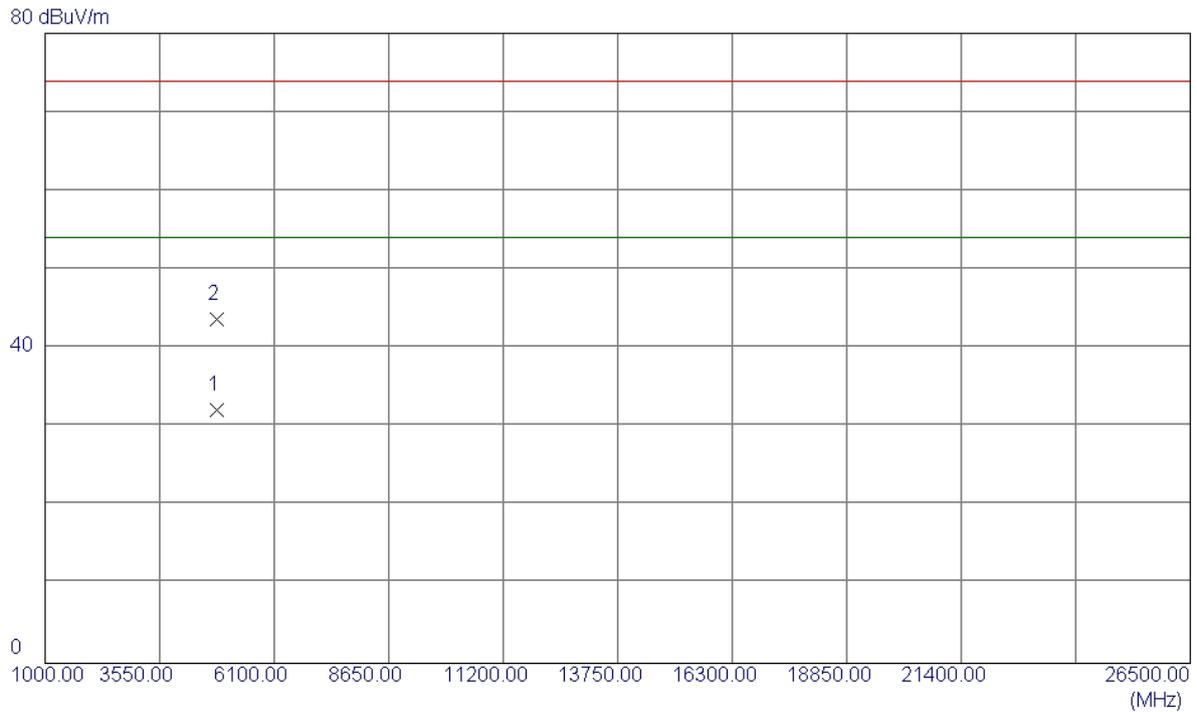
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.10	34.23	63.33	74.00	-10.67	Peak	
2	2390.0000	10.19	34.23	44.42	54.00	-9.58	AVG	
3	2415.6000	73.38	34.38	107.76	74.00	33.76	Peak	No Limit
4	2415.7000	63.54	34.38	97.92	54.00	43.92	AVG	No Limit

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

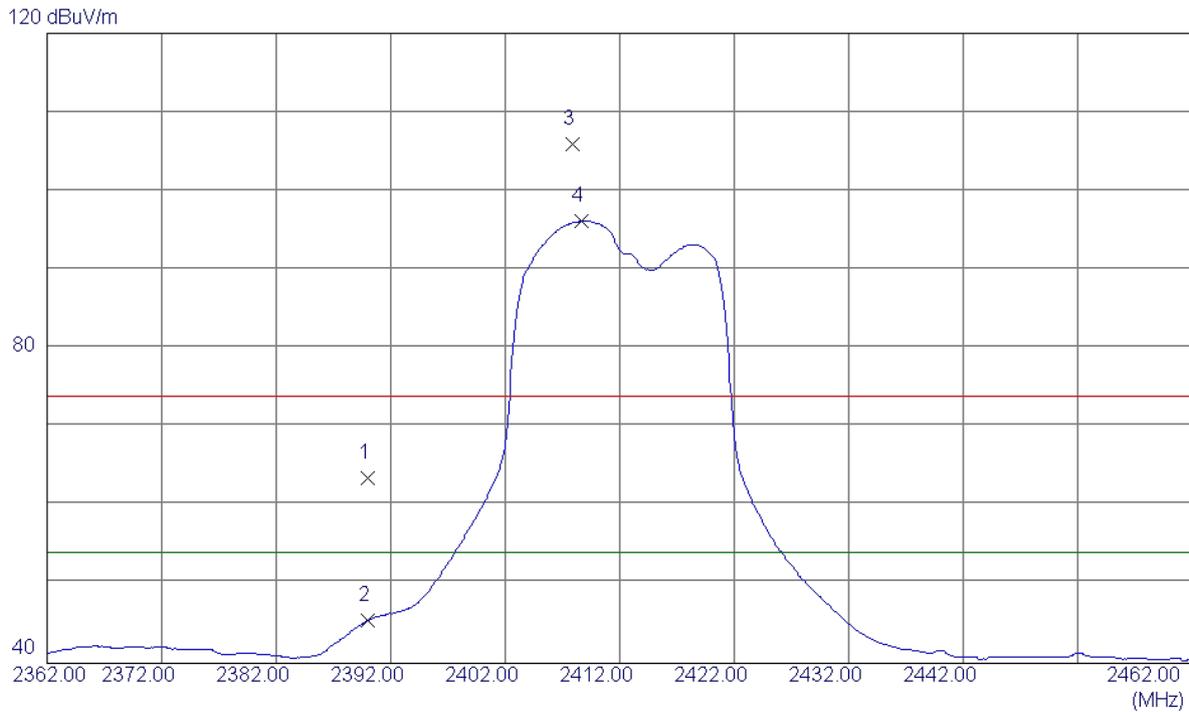
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4824.3800	29.13	3.00	32.13	54.00	-21.87	AVG	
2	4824.4600	40.66	3.00	43.66	74.00	-30.34	Peak	

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

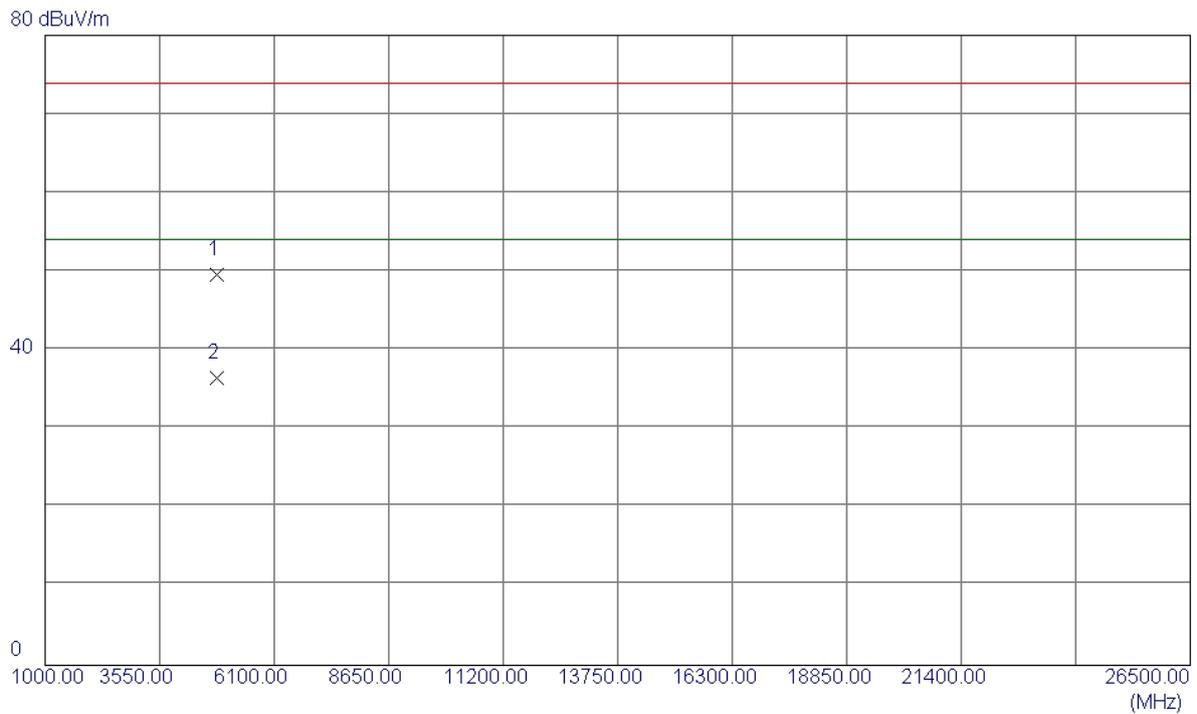
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	29.31	34.23	63.54	74.00	-10.46	Peak	
2	2390.0000	11.18	34.23	45.41	54.00	-8.59	AVG	
3	2407.9000	71.63	34.34	105.97	74.00	31.97	Peak	No Limit
4	2408.7000	61.84	34.34	96.18	54.00	42.18	AVG	No Limit

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

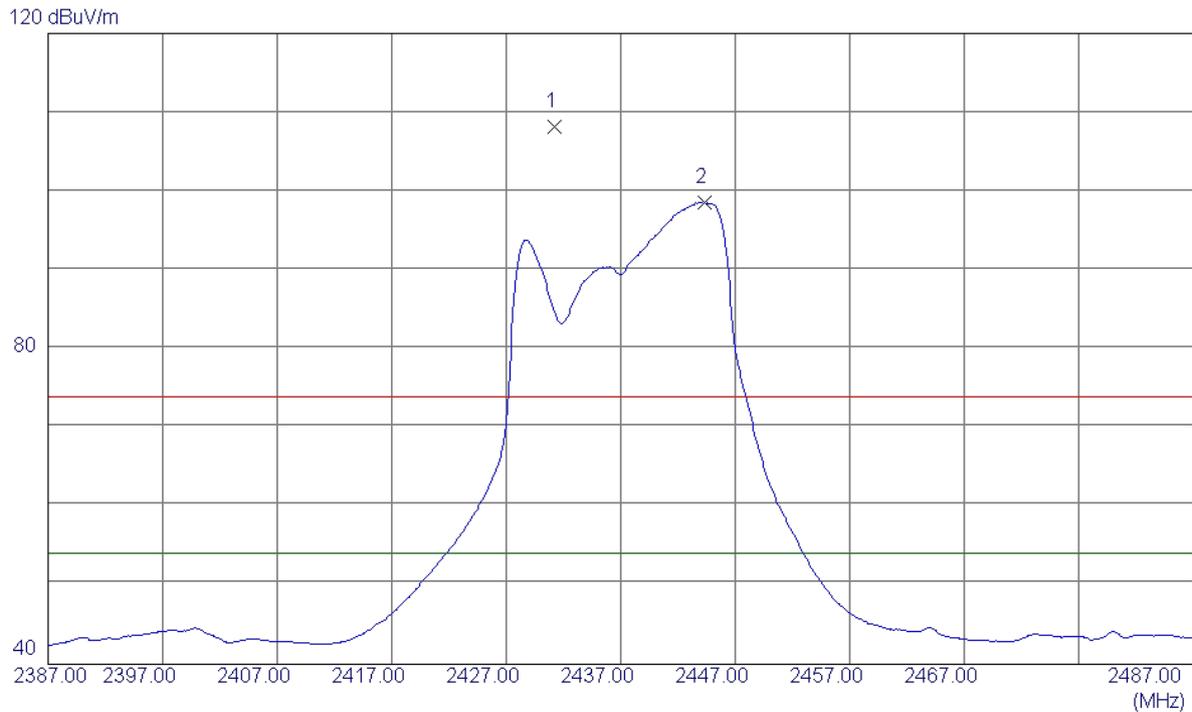
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.3300	46.63	3.00	49.63	74.00	-24.37	Peak	
2	4823.5700	33.48	3.00	36.48	54.00	-17.52	AVG	

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

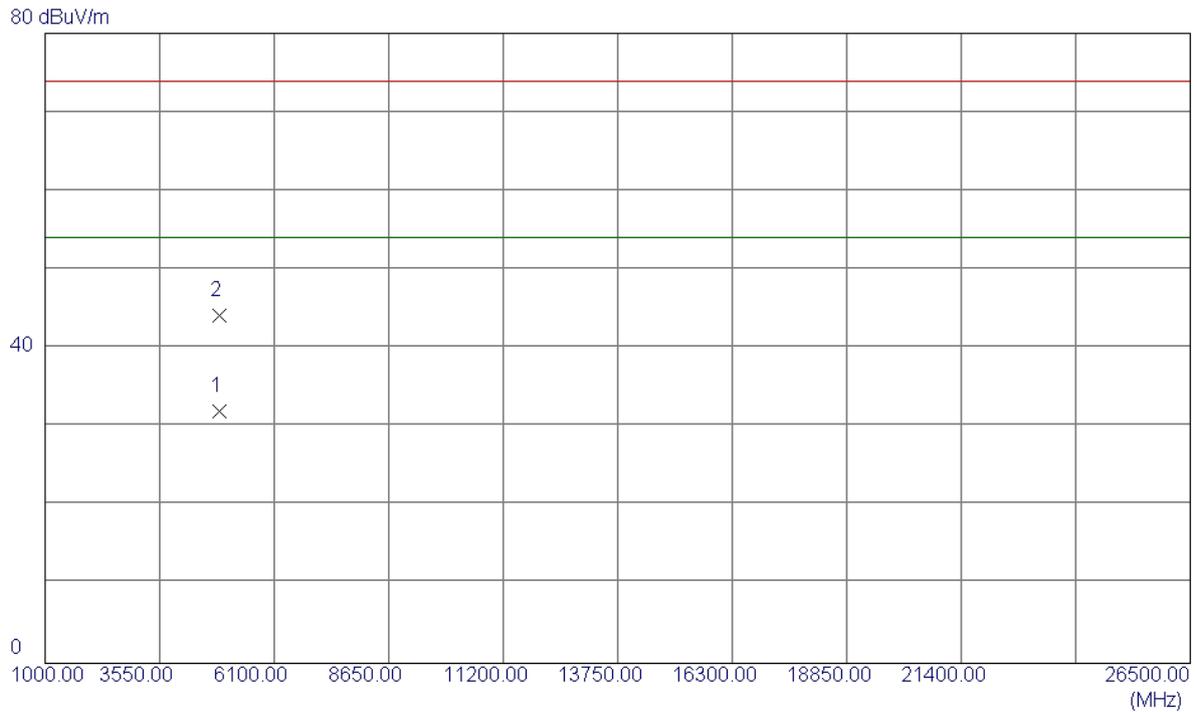
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2431.2000	73.73	34.47	108.20	74.00	34.20	Peak	No Limit
2	2444.3000	63.99	34.55	98.54	54.00	44.54	AVG	No Limit

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

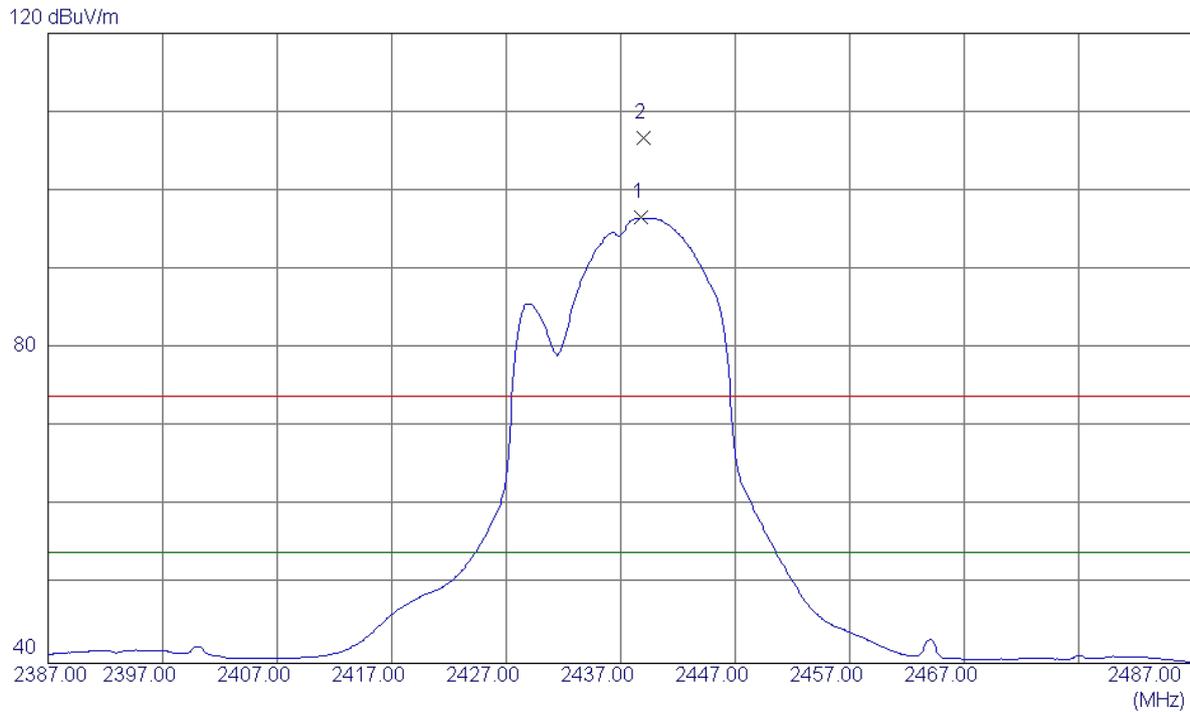
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.5200	28.92	3.03	31.95	54.00	-22.05	AVG	
2	4874.8500	41.08	3.03	44.11	74.00	-29.89	Peak	

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

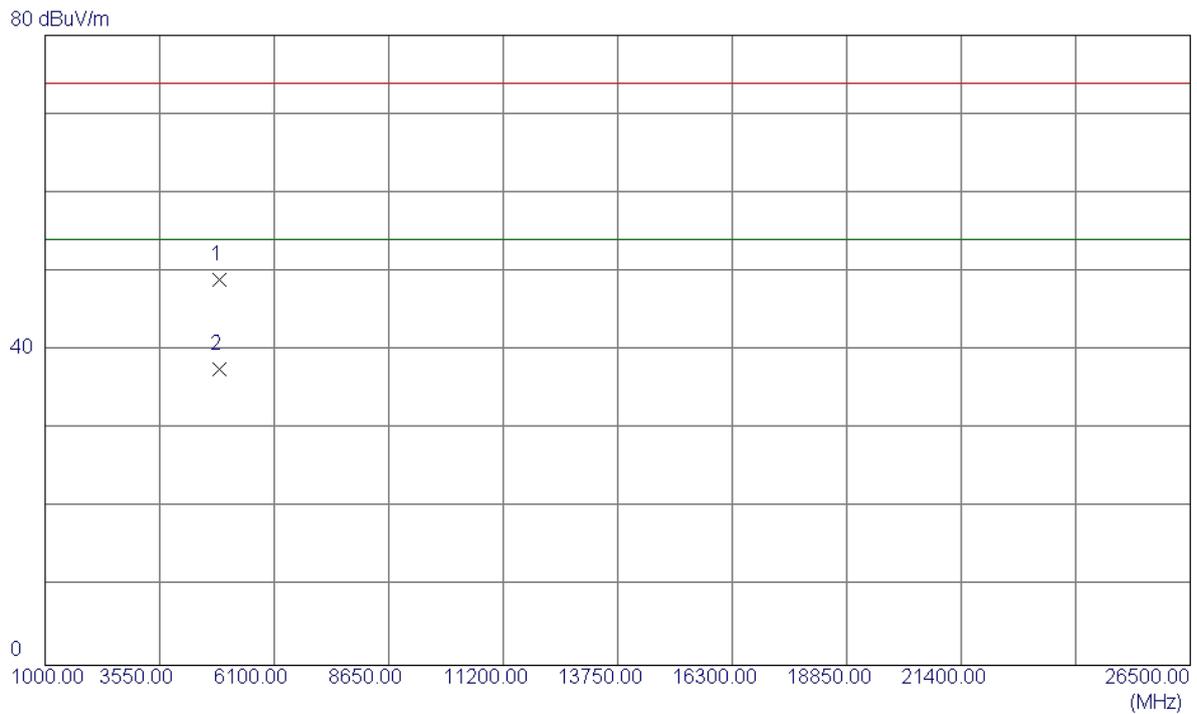
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2438.8000	62.09	34.52	96.61	54.00	42.61	AVG	No Limit
2	2439.0000	72.19	34.52	106.71	74.00	32.71	Peak	No Limit

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

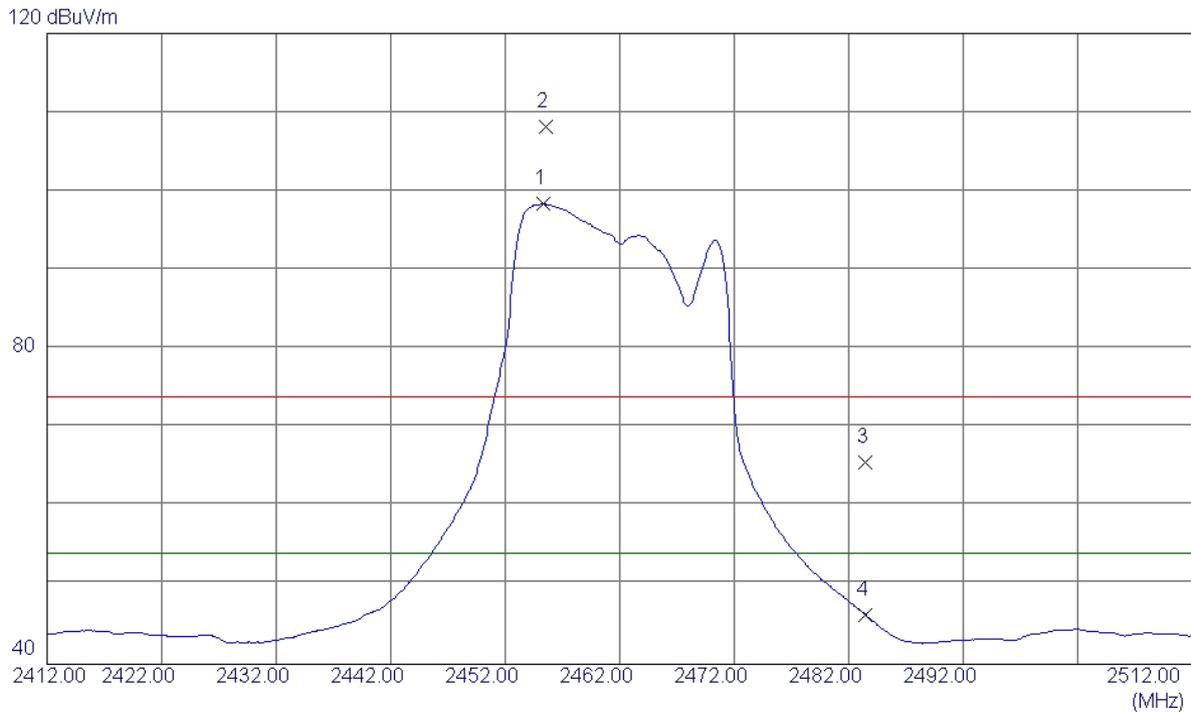
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.3300	45.87	3.03	48.90	74.00	-25.10	Peak	
2	4873.5700	34.50	3.03	37.53	54.00	-16.47	AVG	

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

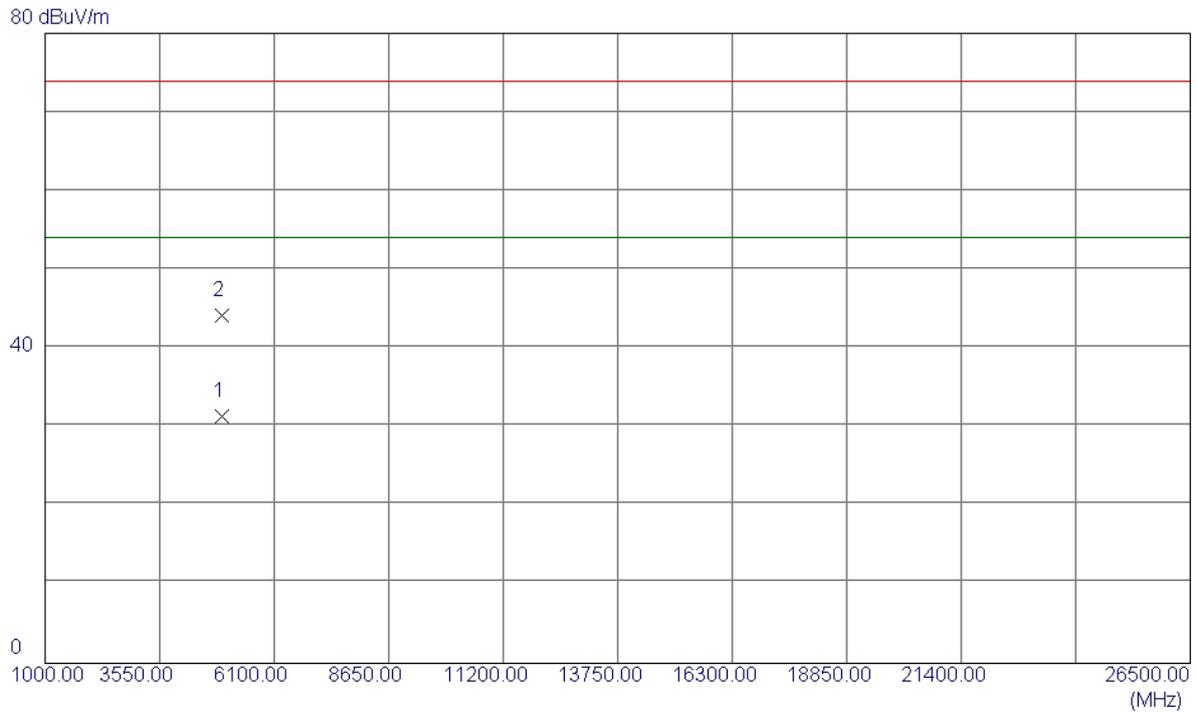
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.3000	63.75	34.61	98.36	54.00	44.36	AVG	No Limit
2	2455.6000	73.51	34.61	108.12	74.00	34.12	Peak	No Limit
3	2483.5000	30.82	34.77	65.59	74.00	-8.41	Peak	
4	2483.5000	11.45	34.77	46.22	54.00	-7.78	AVG	

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

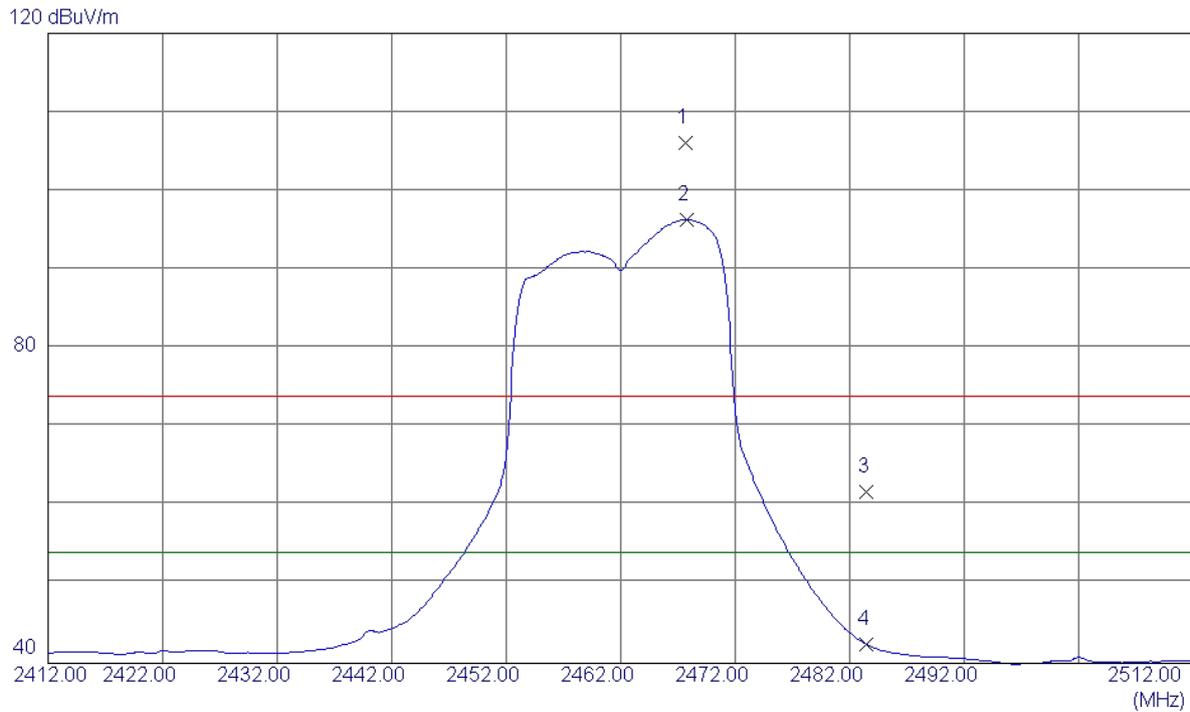
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.5200	28.24	3.05	31.29	54.00	-22.71	AVG	
2	4924.8500	41.17	3.05	44.22	74.00	-29.78	Peak	

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

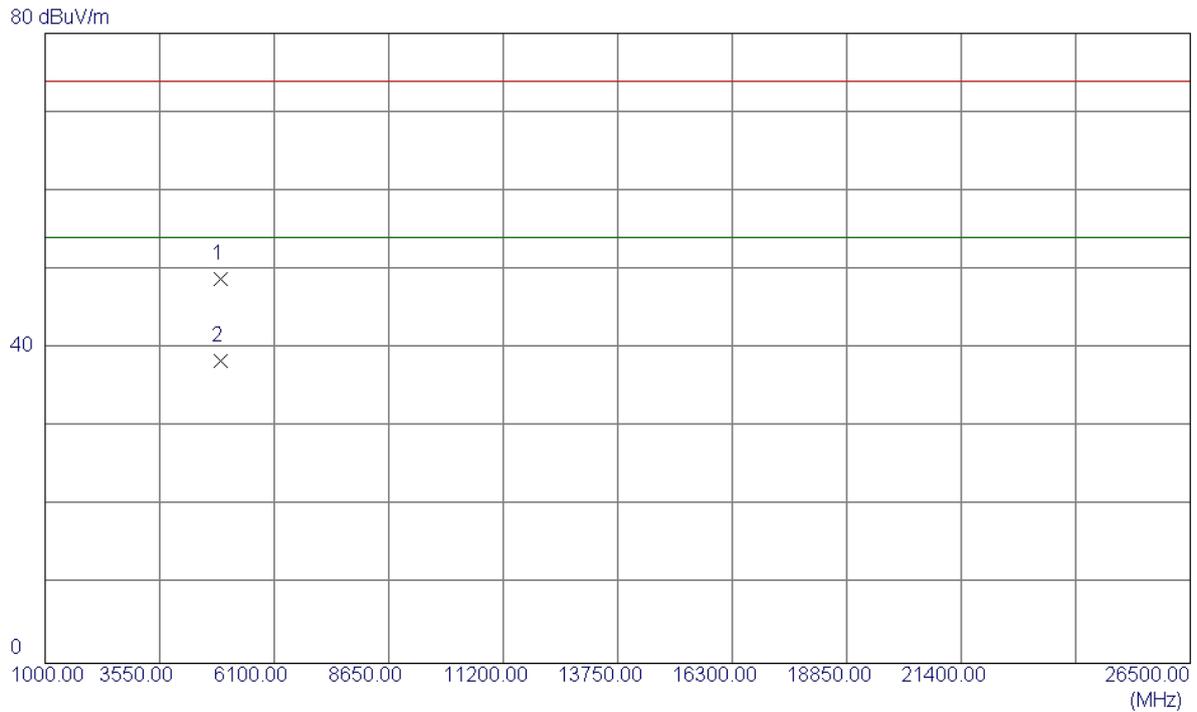
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2467.7000	71.40	34.68	106.08	74.00	32.08	Peak	No Limit
2	2467.8000	61.66	34.68	96.34	54.00	42.34	AVG	No Limit
3	2483.5000	27.05	34.77	61.82	74.00	-12.18	Peak	
4	2483.5000	7.64	34.77	42.41	54.00	-11.59	AVG	

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

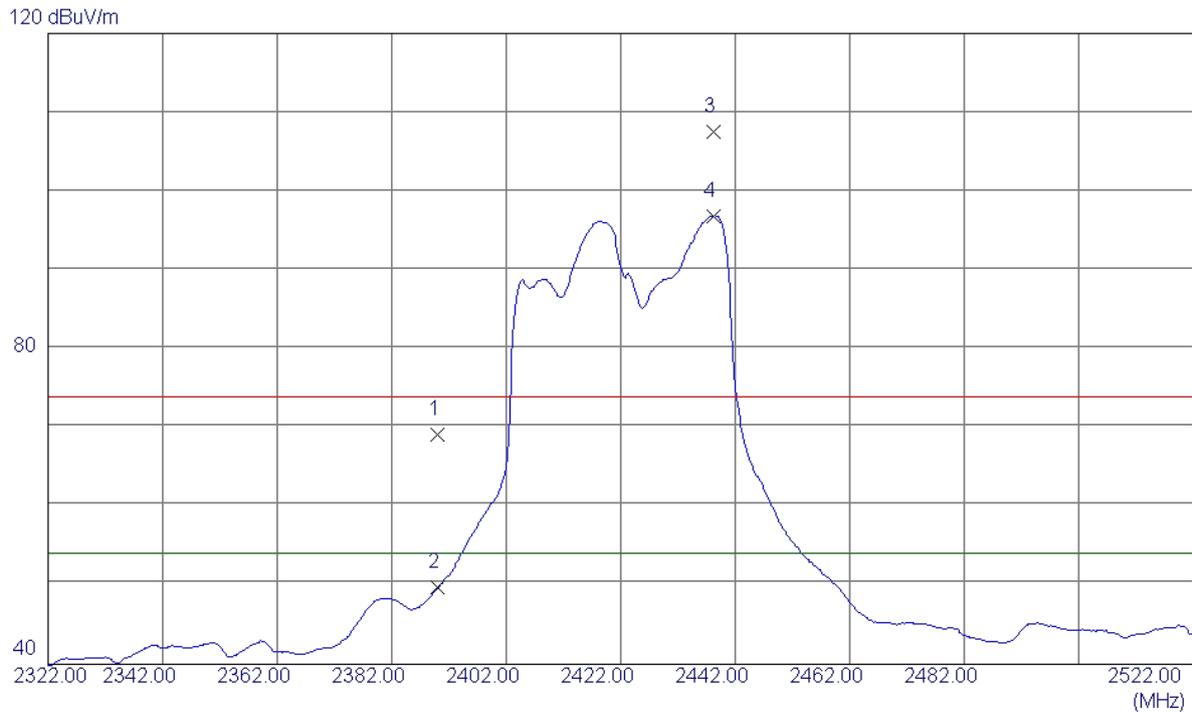
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.3100	45.76	3.05	48.81	74.00	-25.19	Peak	
2	4923.4200	35.41	3.05	38.46	54.00	-15.54	AVG	

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

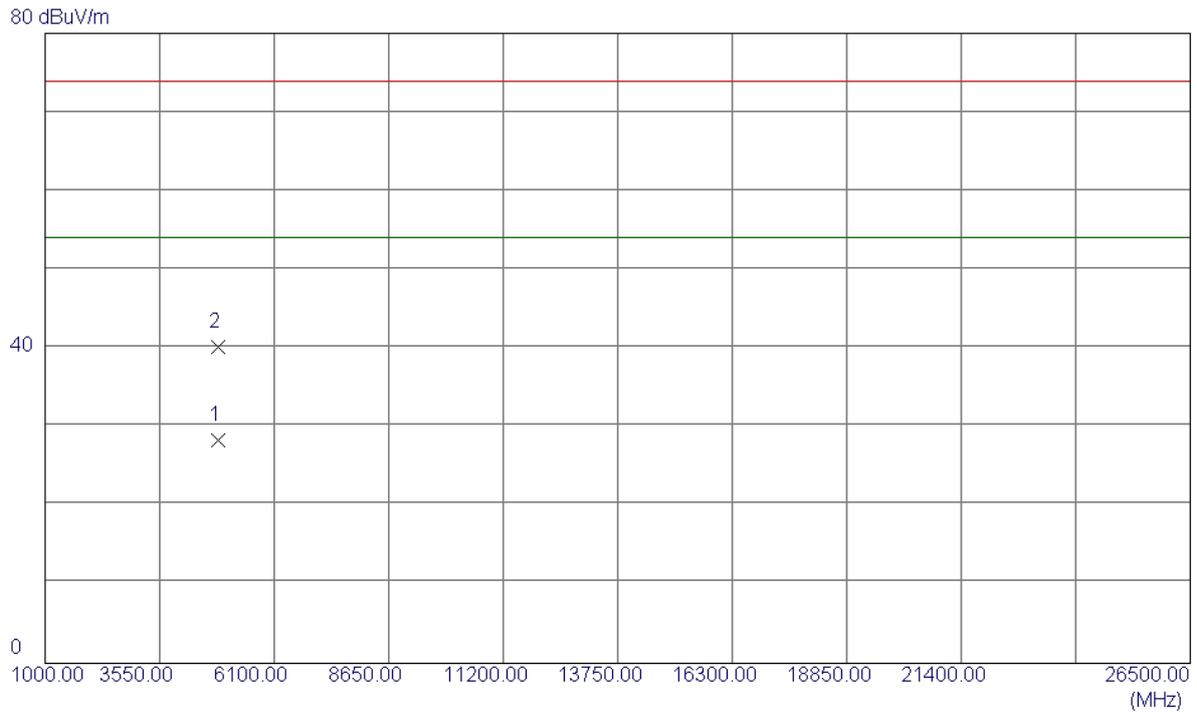
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	34.84	34.23	69.07	74.00	-4.93	Peak	
2	2390.0000	15.55	34.23	49.78	54.00	-4.22	AVG	
3	2438.2000	72.97	34.51	107.48	74.00	33.48	Peak	No Limit
4	2438.2000	62.29	34.51	96.80	54.00	42.80	AVG	No Limit

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

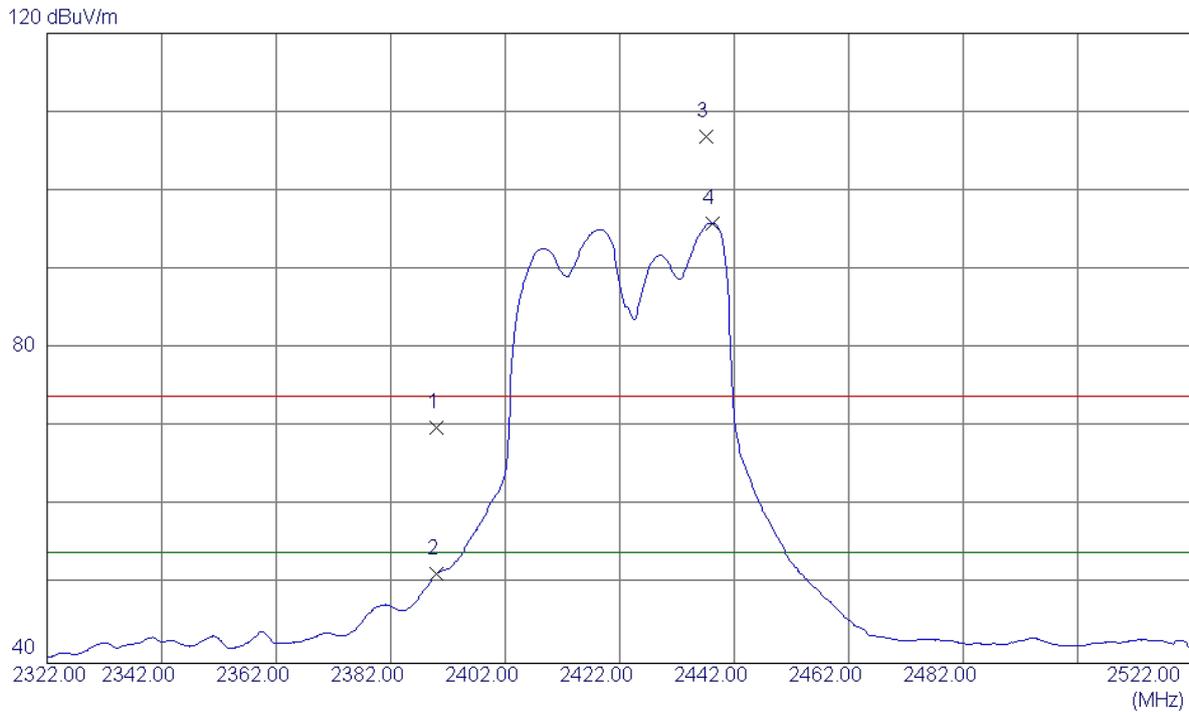
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4843.2000	25.32	3.01	28.33	54.00	-25.67	AVG	
2	4843.4500	37.15	3.01	40.16	74.00	-33.84	Peak	

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

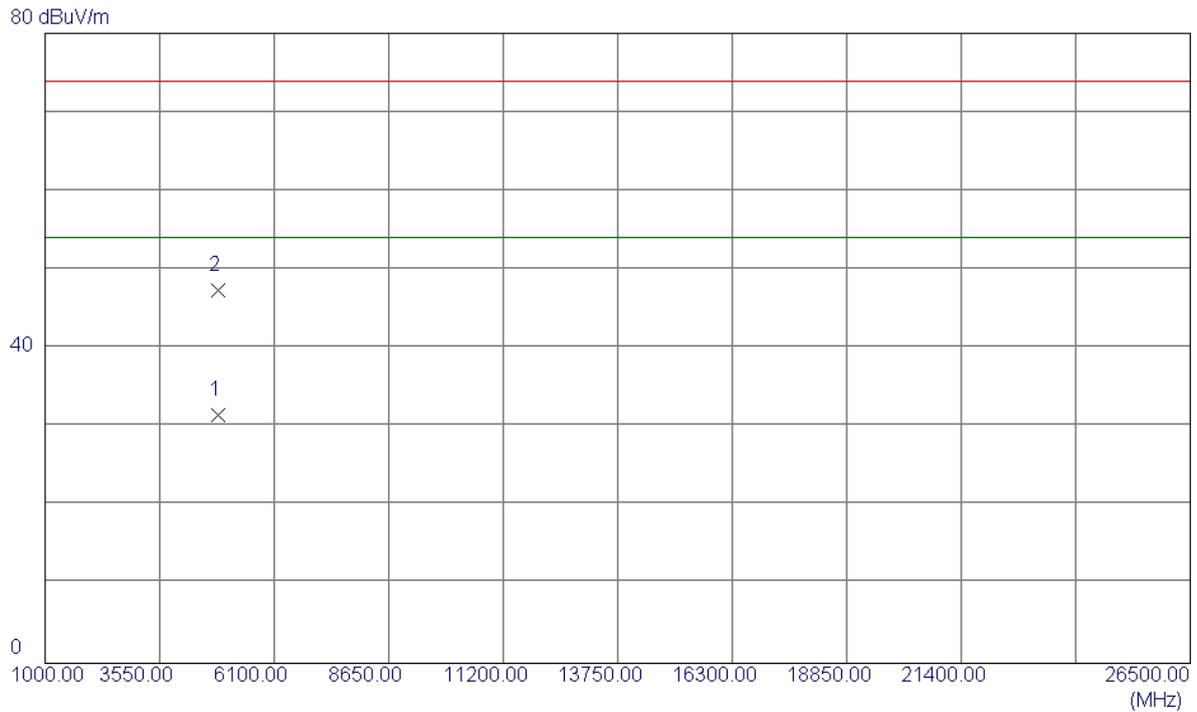
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	35.66	34.23	69.89	74.00	-4.11	Peak	
2	2390.0000	17.14	34.23	51.37	54.00	-2.63	AVG	
3	2437.2000	72.42	34.51	106.93	74.00	32.93	Peak	No Limit
4	2438.2000	61.38	34.51	95.89	54.00	41.89	AVG	No Limit

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

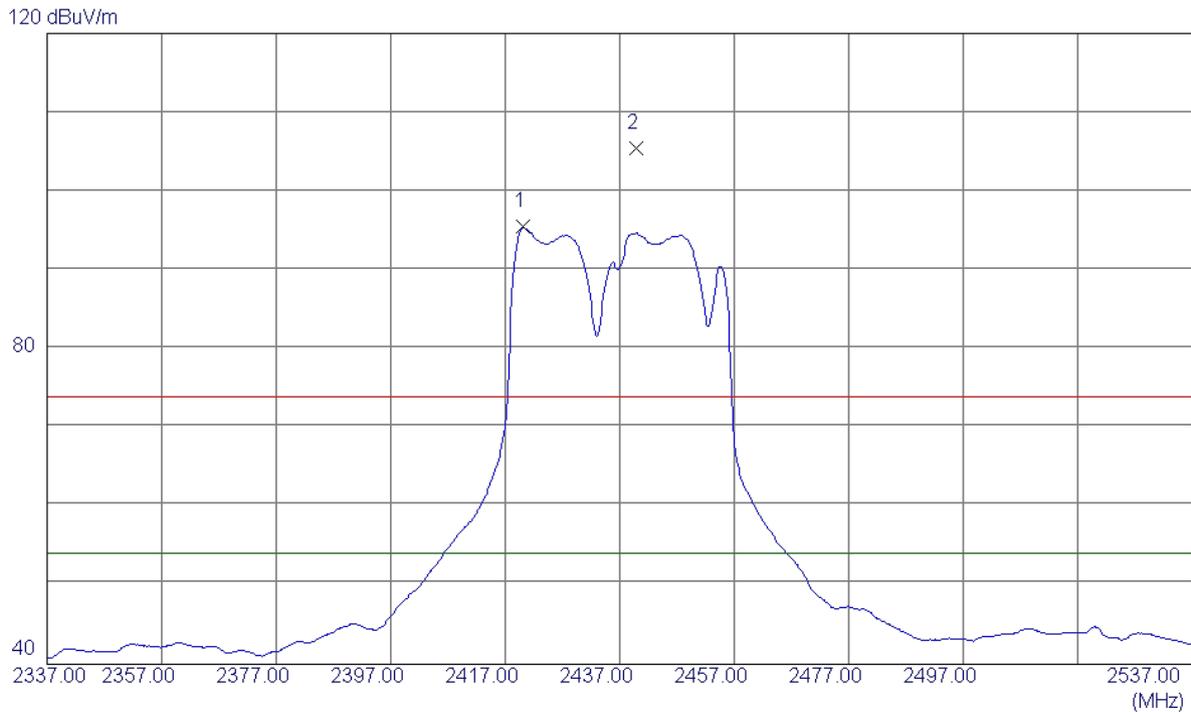
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No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4844.1000	28.52	3.01	31.53	54.00	-22.47	AVG	
2	4844.2500	44.30	3.01	47.31	74.00	-26.69	Peak	

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

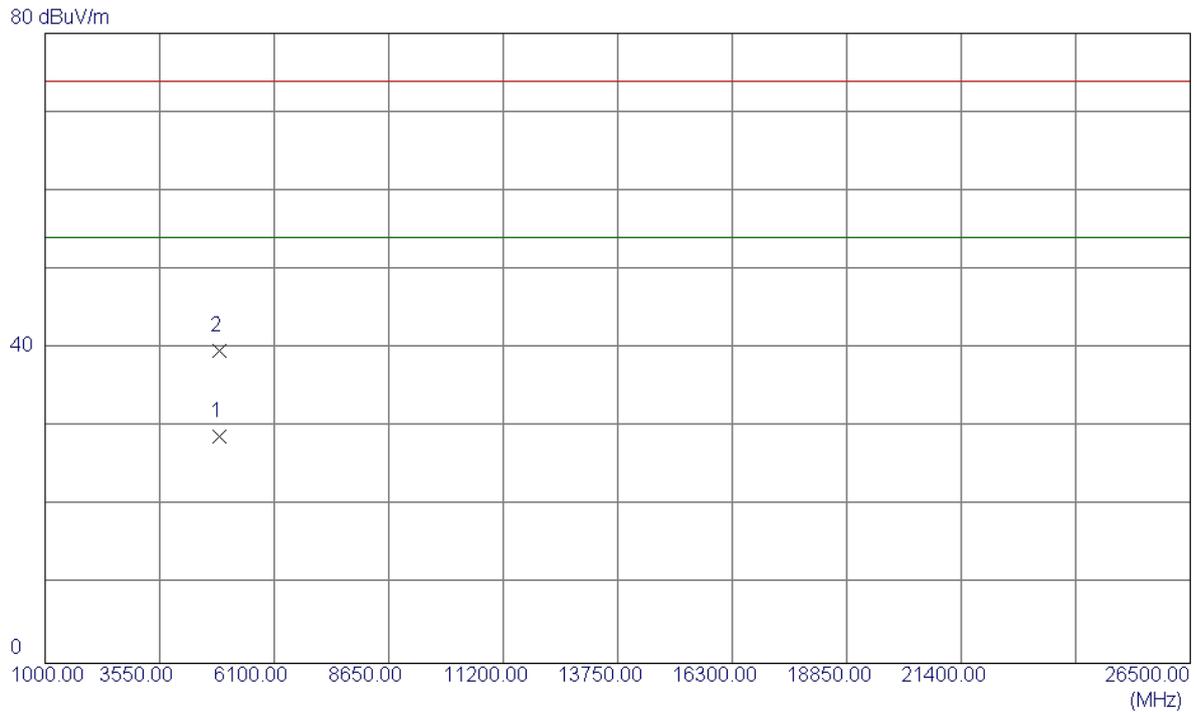
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2420.2000	61.04	34.41	95.45	54.00	41.45	AVG	No Limit
2	2439.8000	70.93	34.52	105.45	74.00	31.45	Peak	No Limit

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

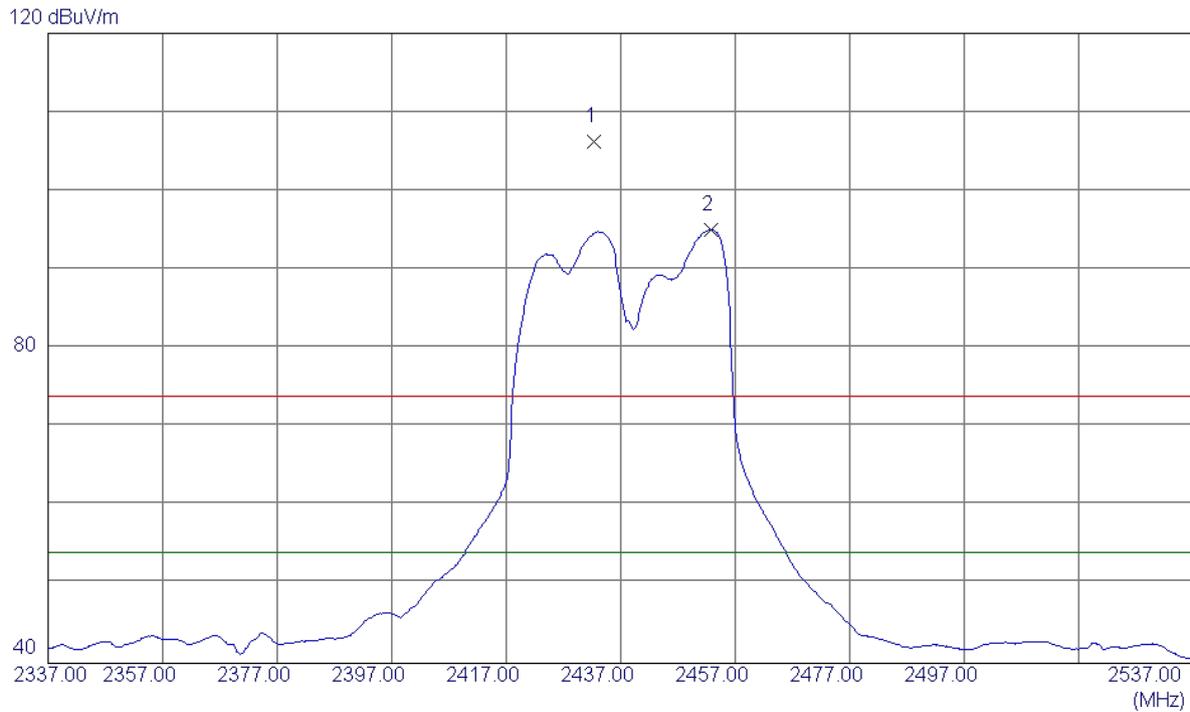
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.1000	25.70	3.03	28.73	54.00	-25.27	AVG	
2	4873.6000	36.65	3.03	39.68	74.00	-34.32	Peak	

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

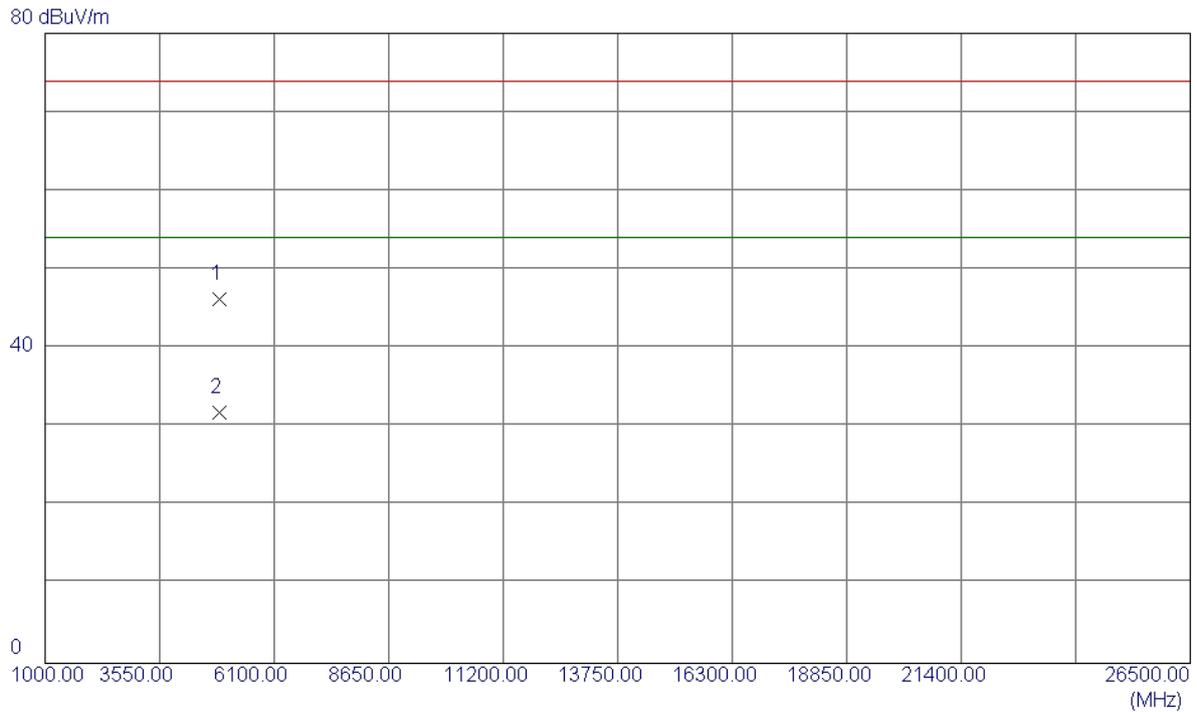
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2432.4000	71.80	34.48	106.28	74.00	32.28	Peak	No Limit
2	2452.8000	60.50	34.60	95.10	54.00	41.10	AVG	No Limit

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

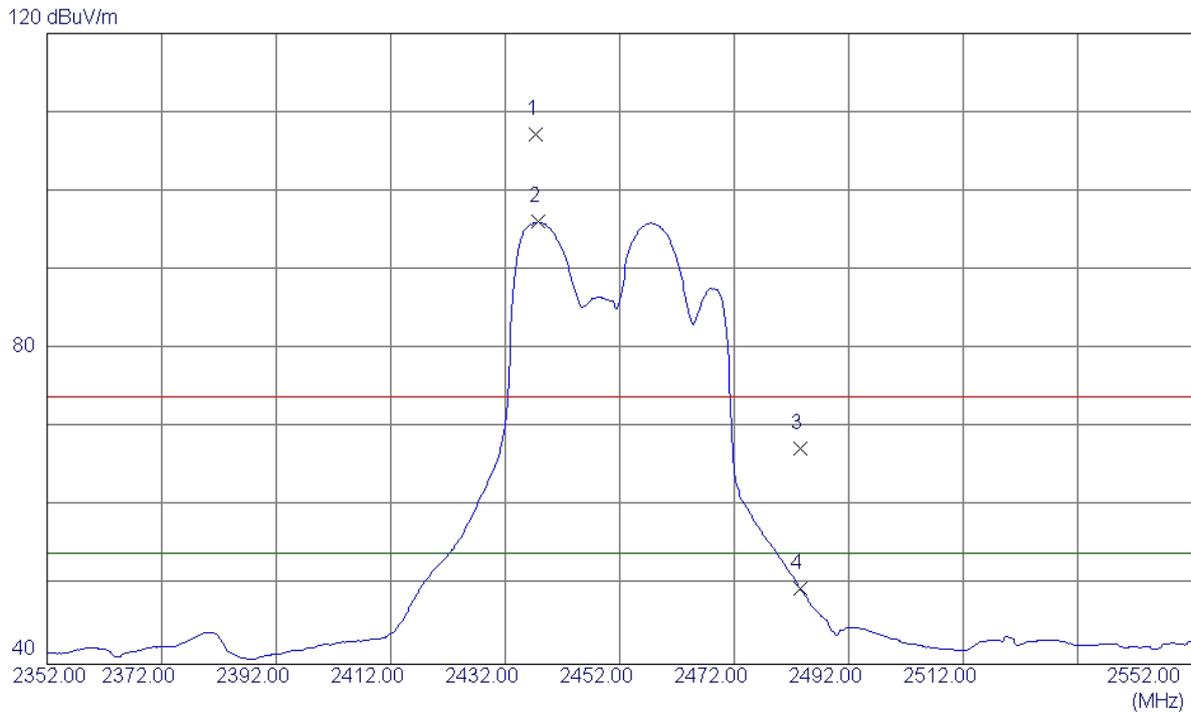
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.5000	43.15	3.03	46.18	74.00	-27.82	Peak	
2	4874.6000	28.82	3.03	31.85	54.00	-22.15	AVG	

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

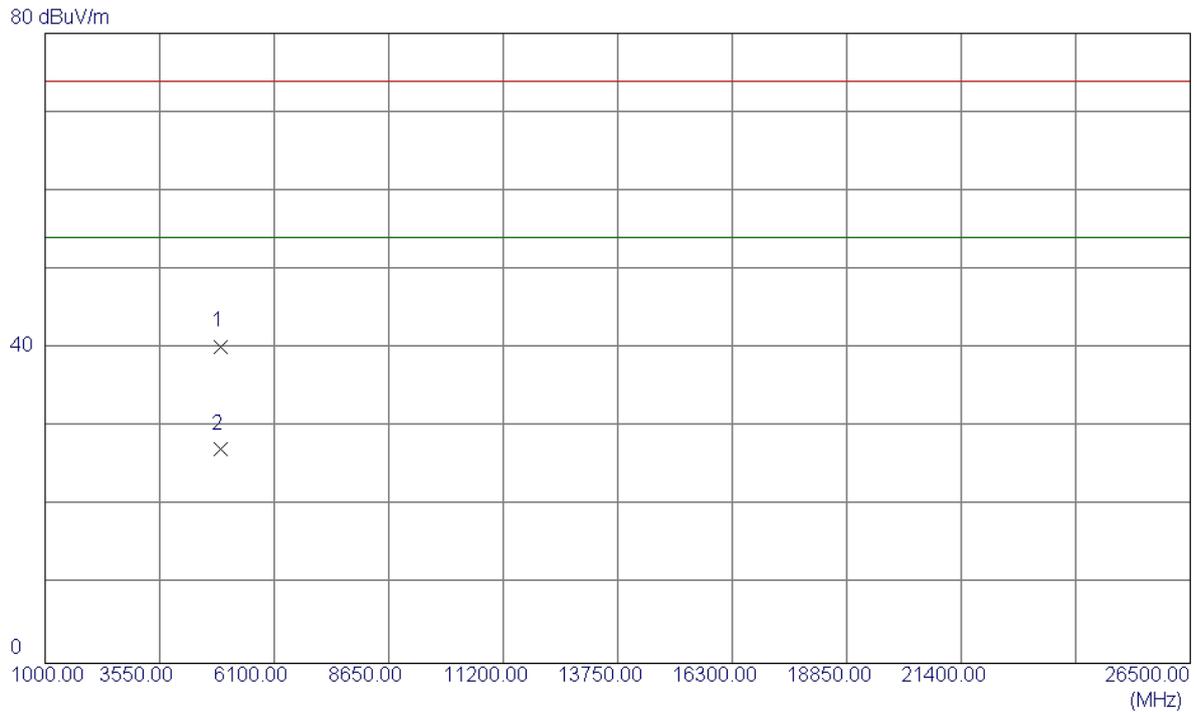
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2437.4000	72.68	34.51	107.19	74.00	33.19	Peak	No Limit
2	2437.8000	61.58	34.51	96.09	54.00	42.09	AVG	No Limit
3	2483.5000	32.59	34.77	67.36	74.00	-6.64	Peak	
4	2483.5000	14.85	34.77	49.62	54.00	-4.38	AVG	

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

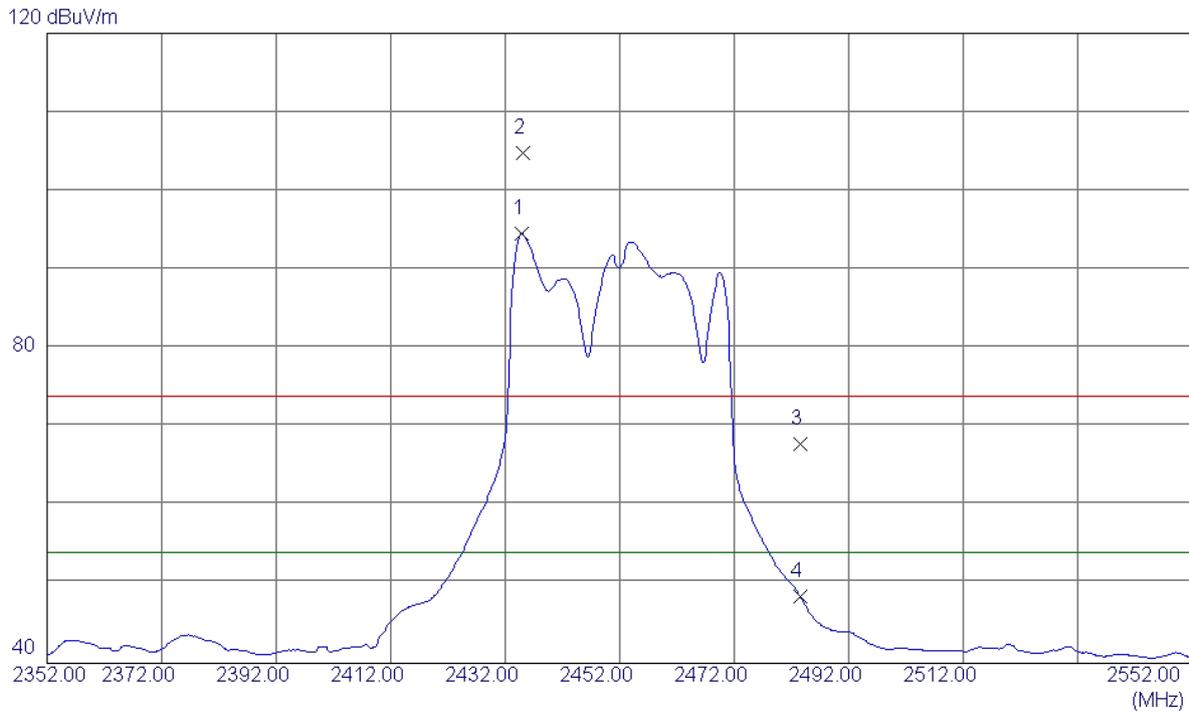
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.0000	37.20	3.04	40.24	74.00	-33.76	Peak	
2	4904.4000	24.12	3.04	27.16	54.00	-26.84	AVG	

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

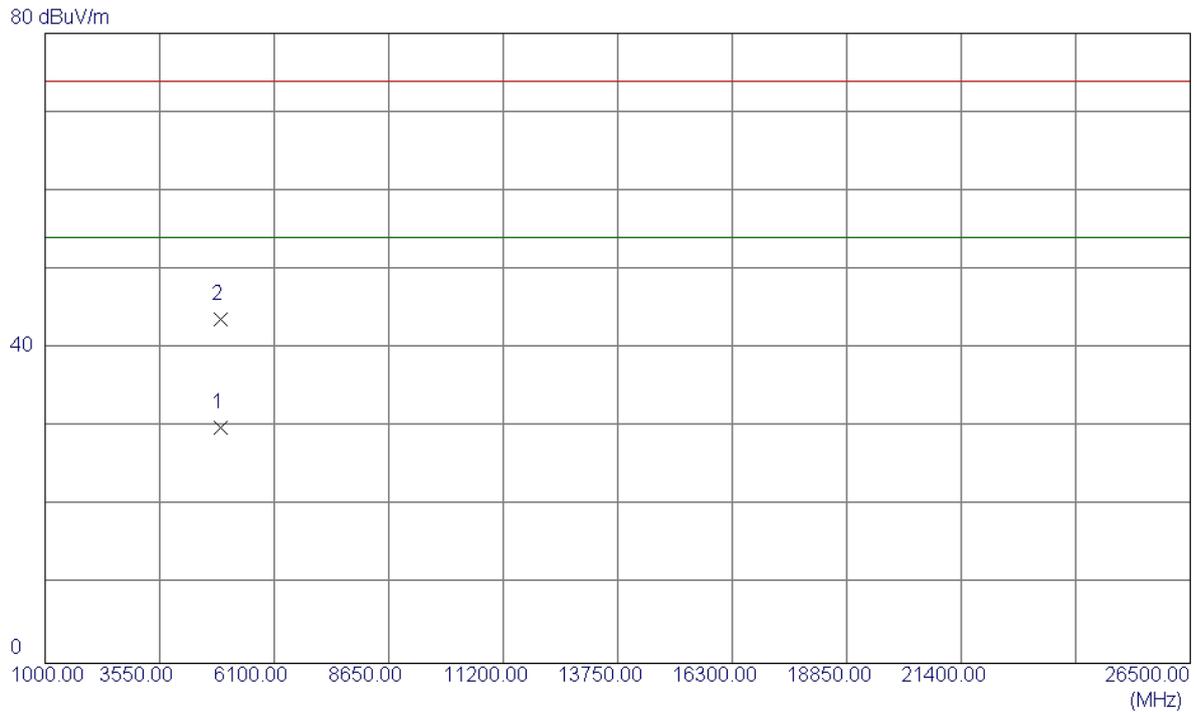
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2434.8000	60.13	34.49	94.62	54.00	40.62	AVG	No Limit
2	2435.2000	70.36	34.49	104.85	74.00	30.85	Peak	No Limit
3	2483.5000	33.04	34.77	67.81	74.00	-6.19	Peak	
4	2483.5000	13.64	34.77	48.41	54.00	-5.59	AVG	

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

Horizontal



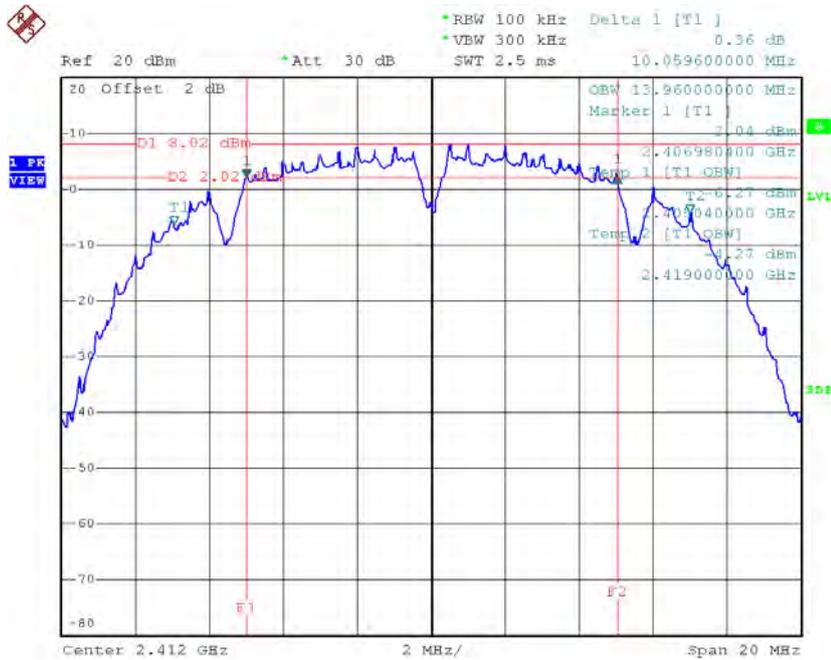
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4905.1000	26.85	3.04	29.89	54.00	-24.11	AVG	
2	4905.5000	40.61	3.04	43.65	74.00	-30.35	Peak	

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	10.06	13.96	500	Complies
2437	10.10	14.00	500	Complies
2462	10.11	14.00	500	Complies

TX CH01

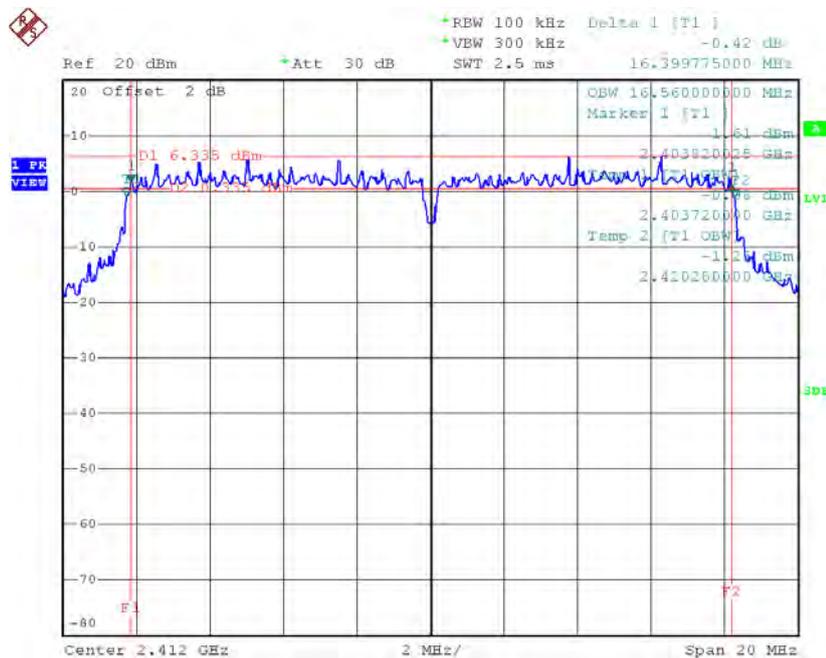


Date: 1.DEC.2015 15:22:35

Test Mode: TX G Mode_CH01/06/11

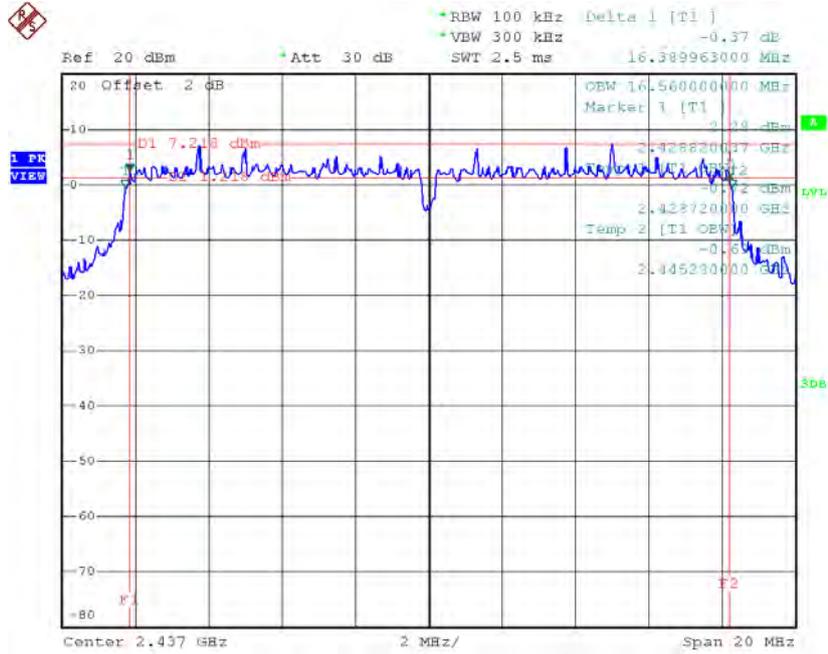
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.40	16.56	500	Complies
2437	16.39	16.56	500	Complies
2462	16.38	16.56	500	Complies

TX CH01



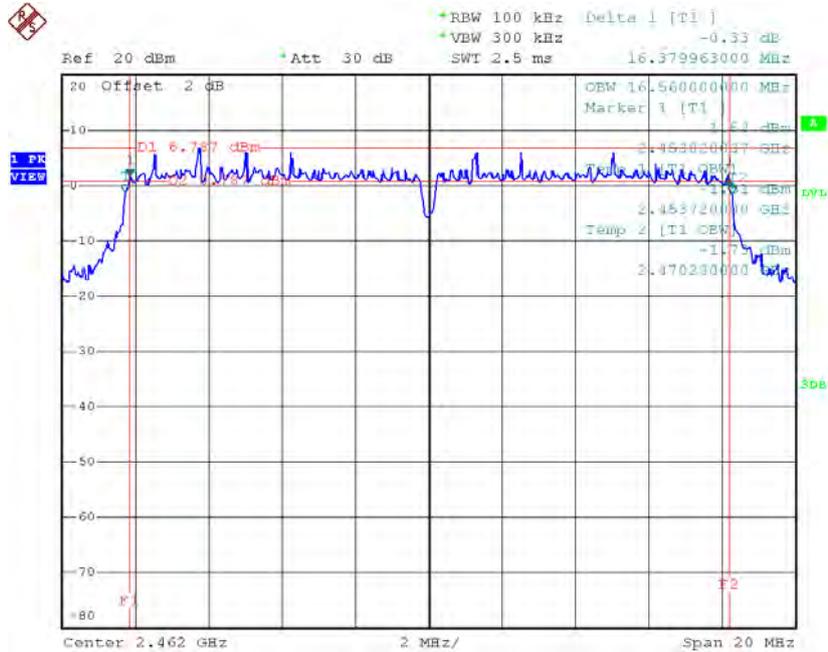
Date: 1.DEC.2015 15:27:38

TX CH06



Date: 1.DEC.2015 15:29:07

TX CH11

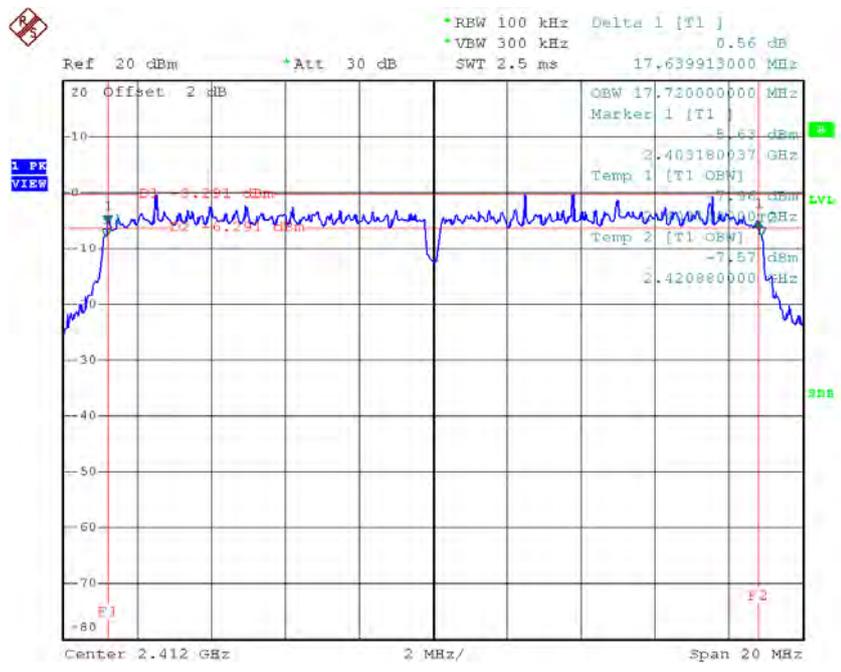


Date: 1.DEC.2015 15:30:35

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

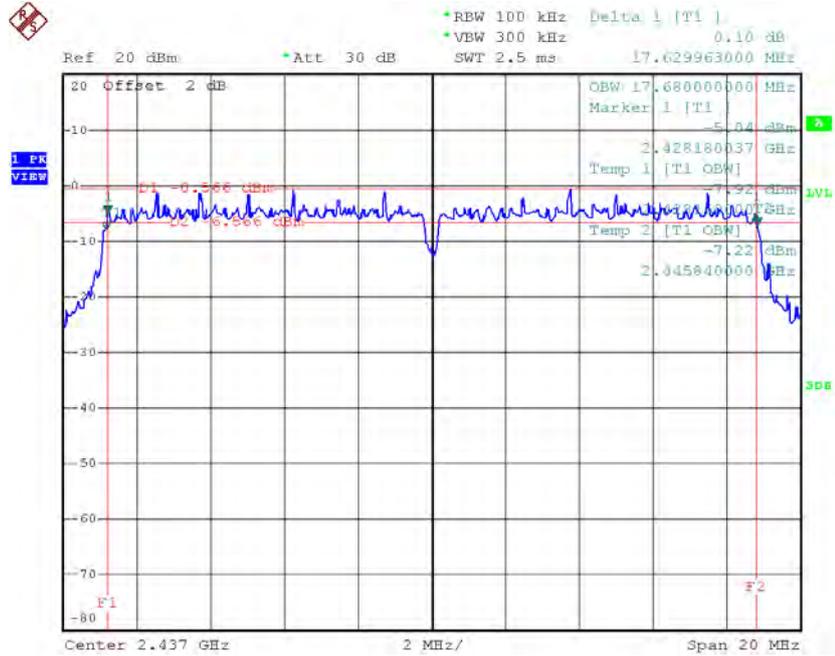
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.64	17.72	500	Complies
2437	17.63	17.68	500	Complies
2462	17.63	17.68	500	Complies

TX CH01



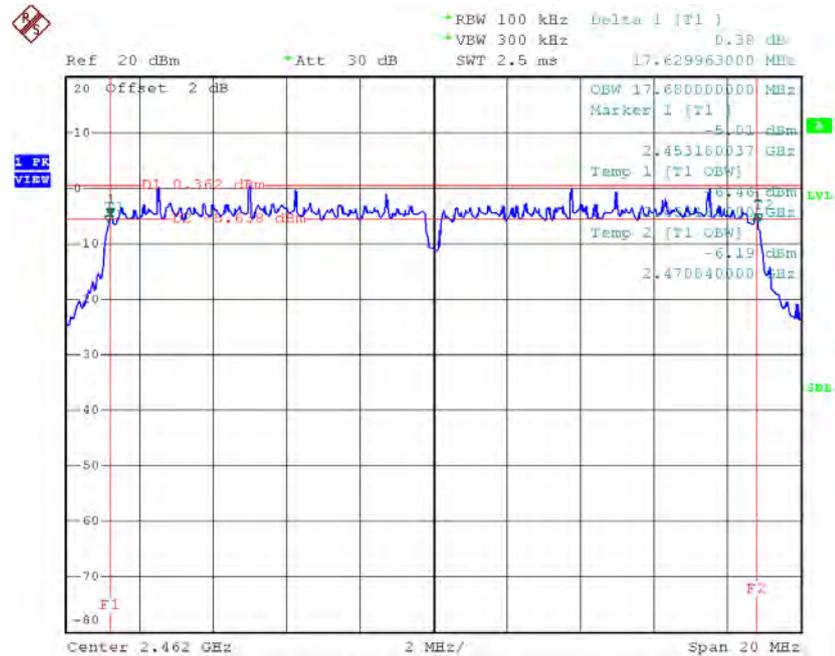
Date: 1.DEC.2015 15:44:09

TX CH06



Date: 1.DEC.2015 15:45:12

TX CH11

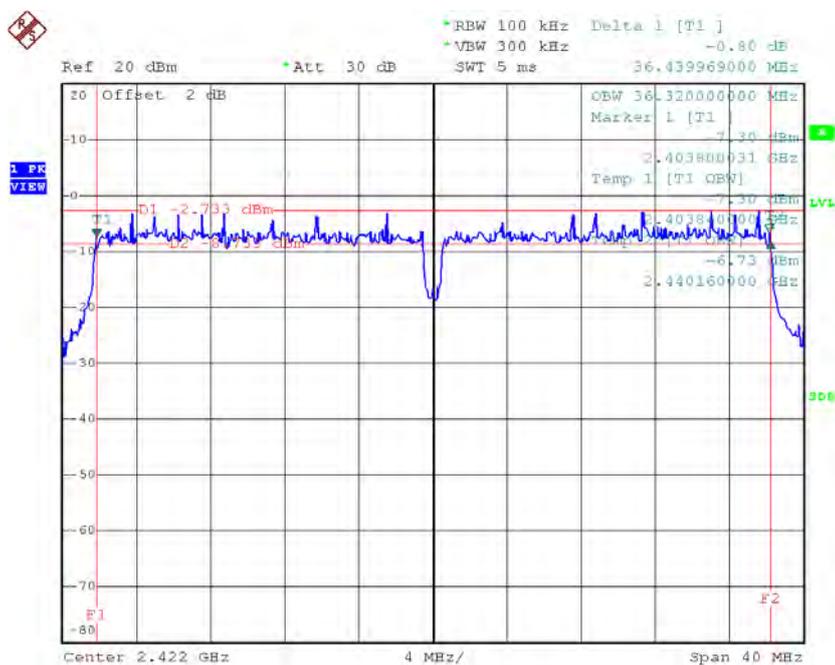


Date: 1.DEC.2015 15:46:04

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

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.44	36.32	500	Complies
2437	36.49	36.32	500	Complies
2452	36.52	36.32	500	Complies

TX CH03



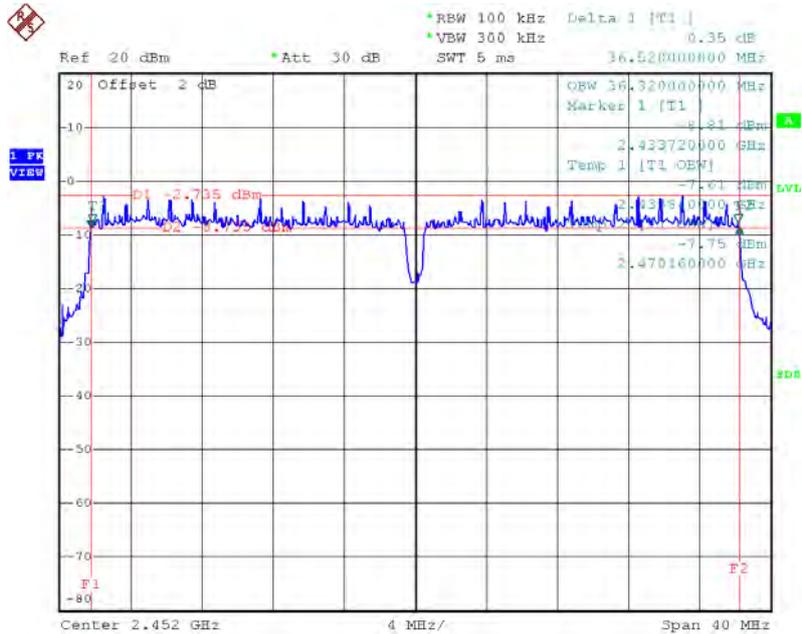
Date: 1.DEC.2015 15:47:08

TX CH06



Date: 1.DEC.2015 15:48:13

TX CH09



Date: 1.DEC.2015 15:49:07

ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	20.14	0.10	30.00	1.00	Complies
2437	20.31	0.11	30.00	1.00	Complies
2462	19.88	0.10	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.53	0.28	30.00	1.00	Complies
2437	25.37	0.34	30.00	1.00	Complies
2462	22.68	0.19	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.09	0.16	30.00	1.00	Complies
2437	22.22	0.17	30.00	1.00	Complies
2462	22.82	0.19	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.38	0.17	30.00	1.00	Complies
2437	21.81	0.15	30.00	1.00	Complies
2462	21.65	0.15	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 3					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.76	0.15	30.00	1.00	Complies
2437	22.57	0.18	30.00	1.00	Complies
2462	22.82	0.19	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	26.86	0.48	30.00	1.00	Complies
2437	26.98	0.50	30.00	1.00	Complies
2462	27.24	0.53	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	22.21	0.17	30.00	1.00	Complies
2437	22.07	0.16	30.00	1.00	Complies
2452	21.73	0.15	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	21.94	0.16	30.00	1.00	Complies
2437	21.28	0.13	30.00	1.00	Complies
2452	20.05	0.10	30.00	1.00	Complies

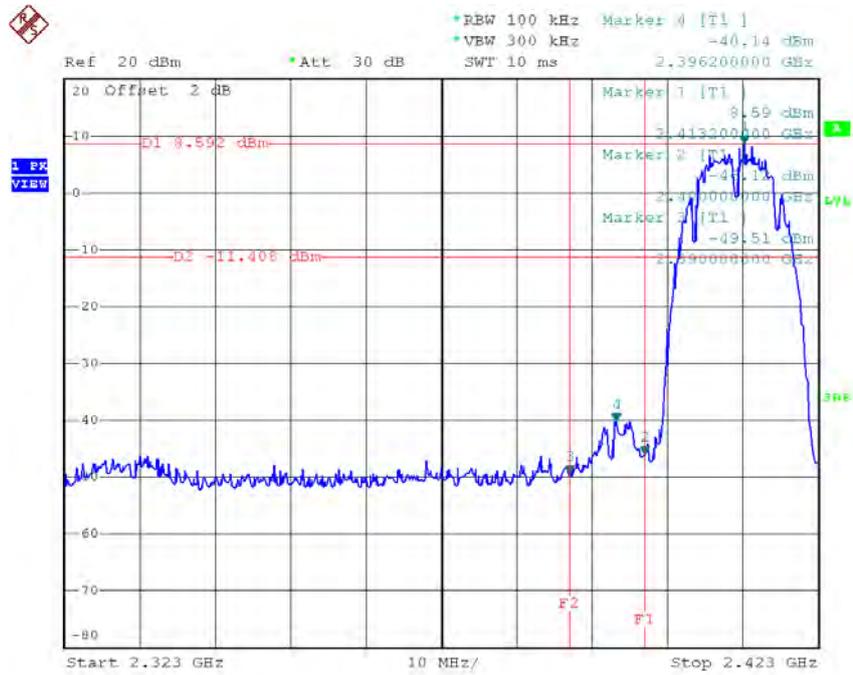
Test Mode :TX N40 Mode_CH03/06/09_ANT 3					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	22.61	0.18	30.00	1.00	Complies
2437	22.83	0.19	30.00	1.00	Complies
2452	22.09	0.16	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	27.03	0.51	30.00	1.00	Complies
2437	26.88	0.49	30.00	1.00	Complies
2452	26.15	0.41	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS
EMISSION**

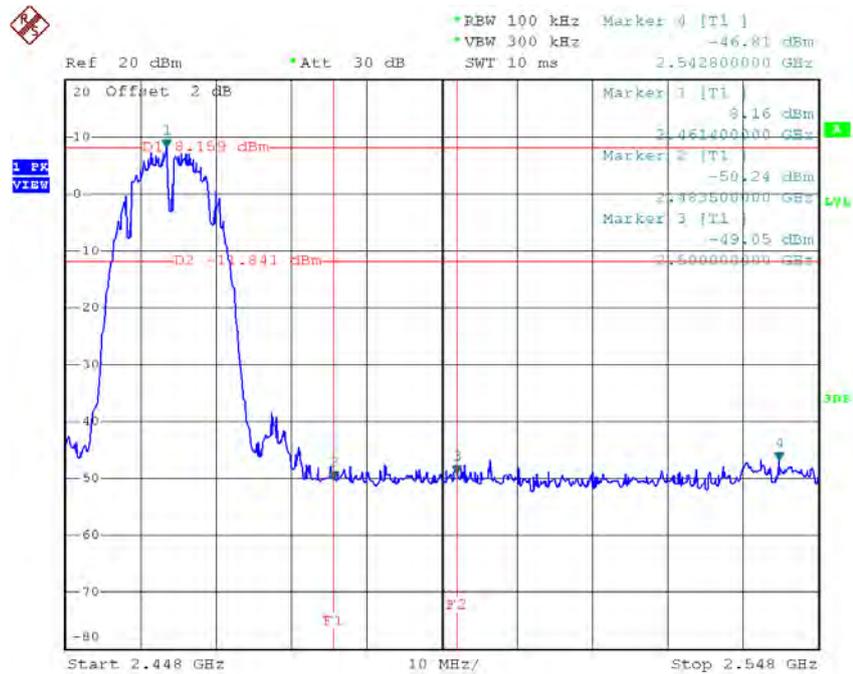
Test Mode :	TX B Mode
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TX B mode CH01



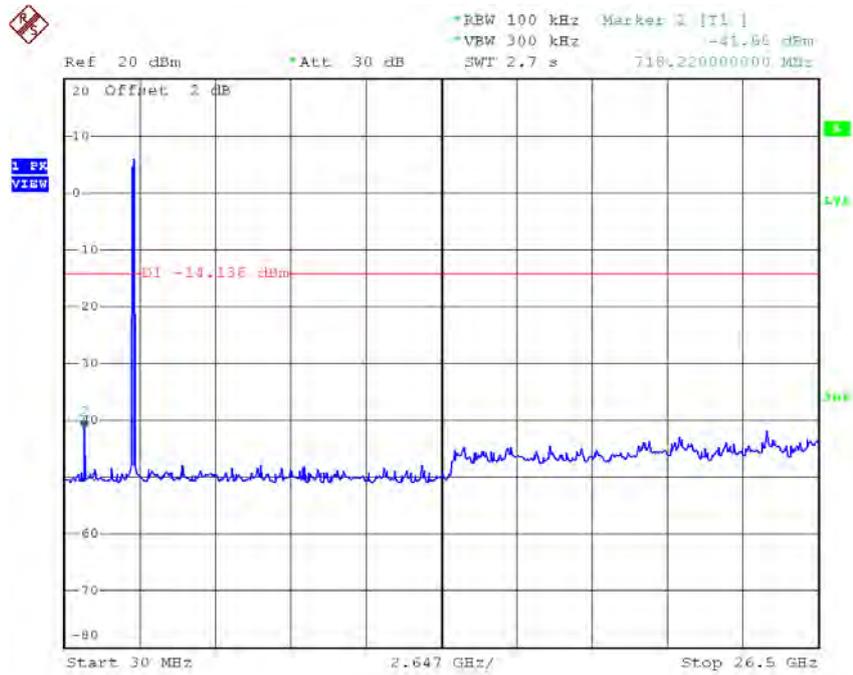
Date: 1.DEC.2015 15:22:57

TX B mode CH11



Date: 1.DEC.2015 15:26:44

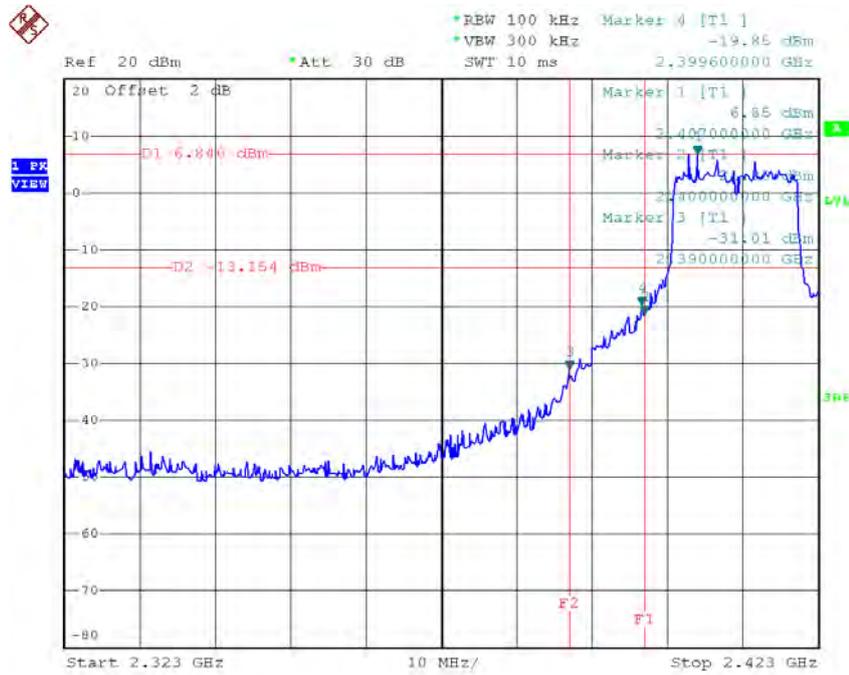
TX B mode CH11 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:26:36

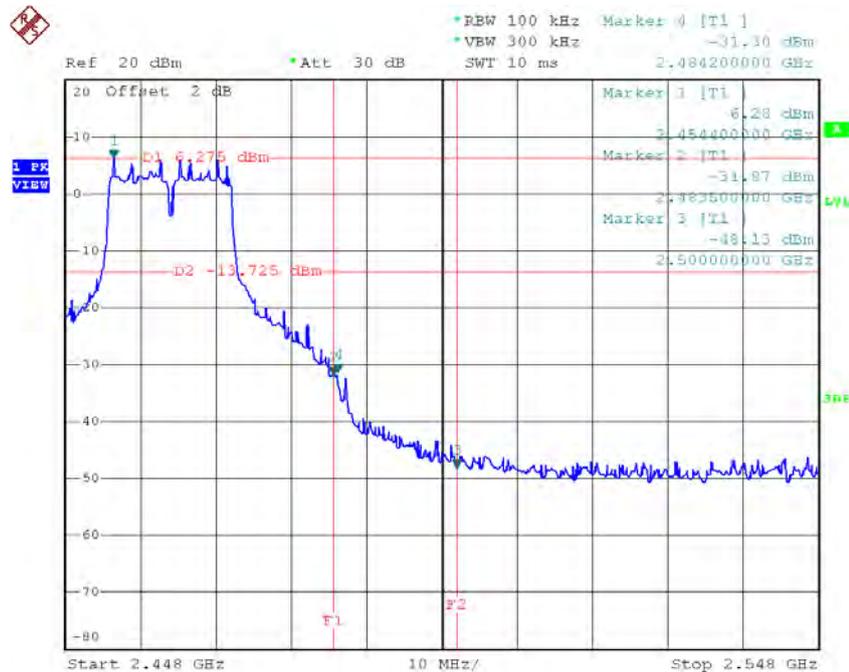
Test Mode :	TX G Mode
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TX G mode CH01



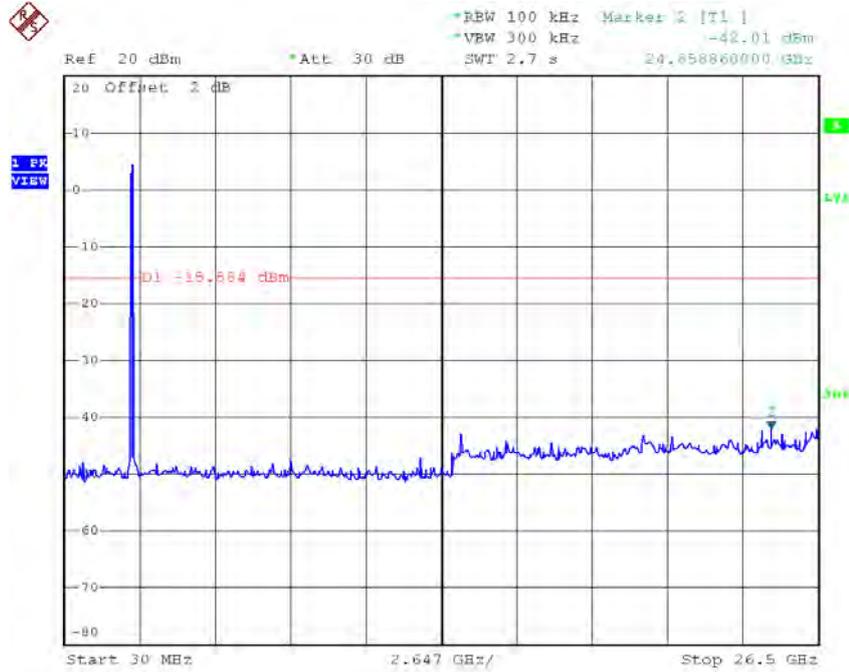
Date: 1.DEC.2015 15:28:00

TX G mode CH11



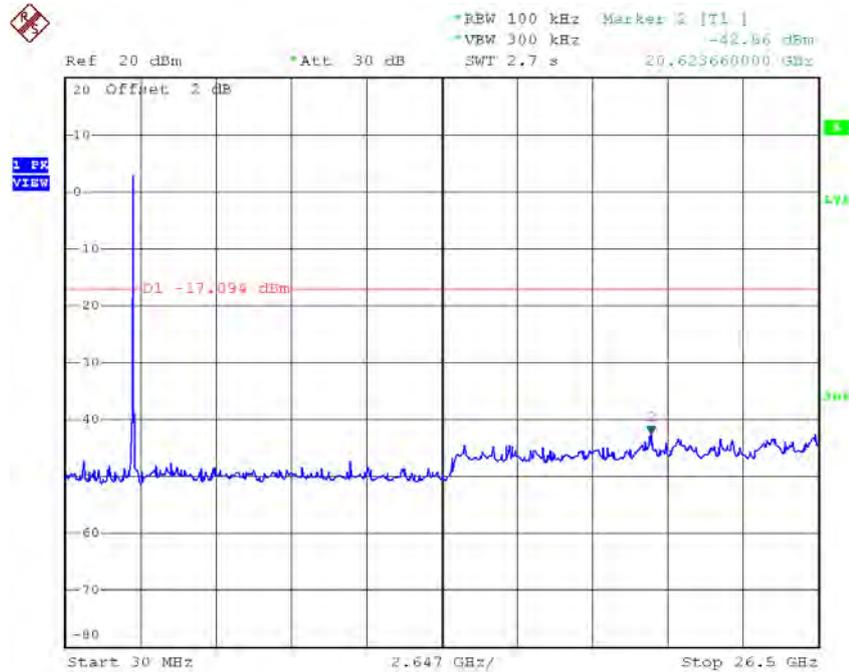
Date: 1.DEC.2015 15:30:57

TX G mode CH01 (10 Harmonic of the frequency)



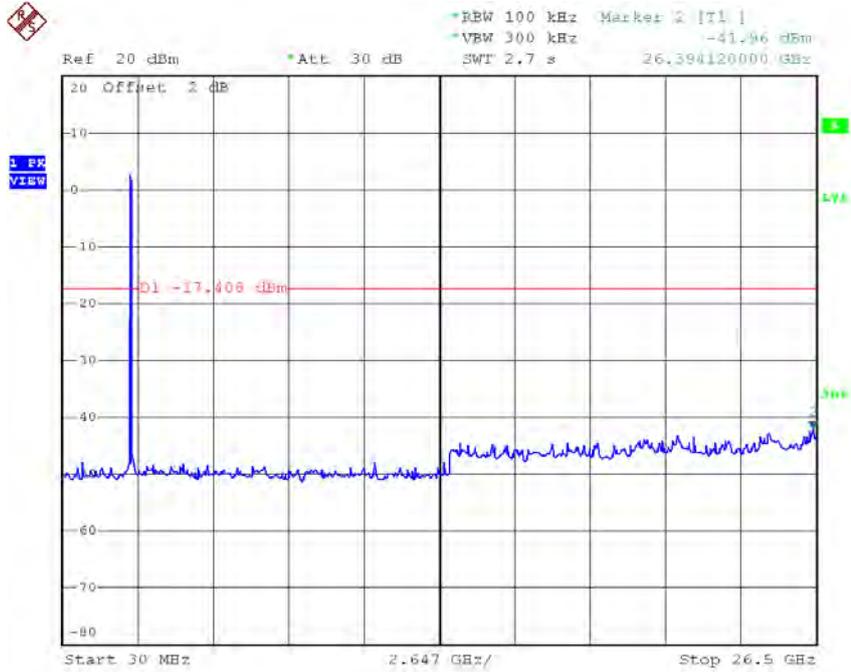
Date: 1.DEC.2015 15:27:52

TX G mode CH06 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:29:21

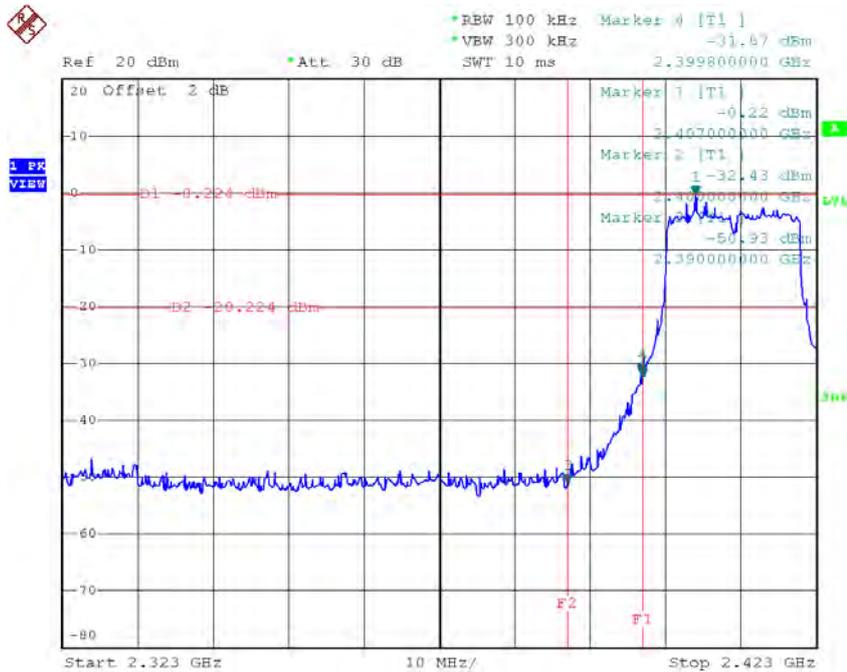
TX G mode CH11 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:30:49

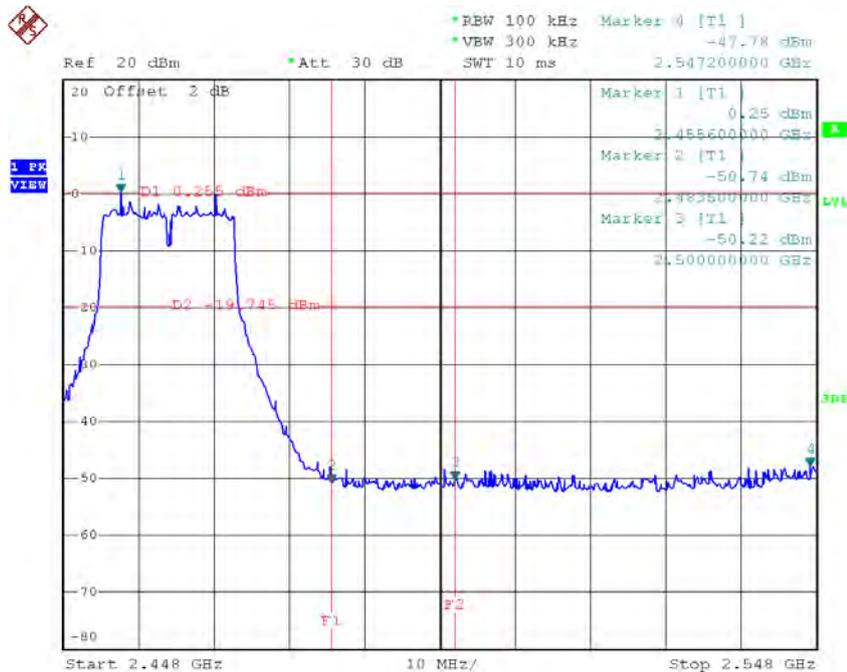
Test Mode :	TX N-20M Mode_ANT 1
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TX HT20 mode CH01



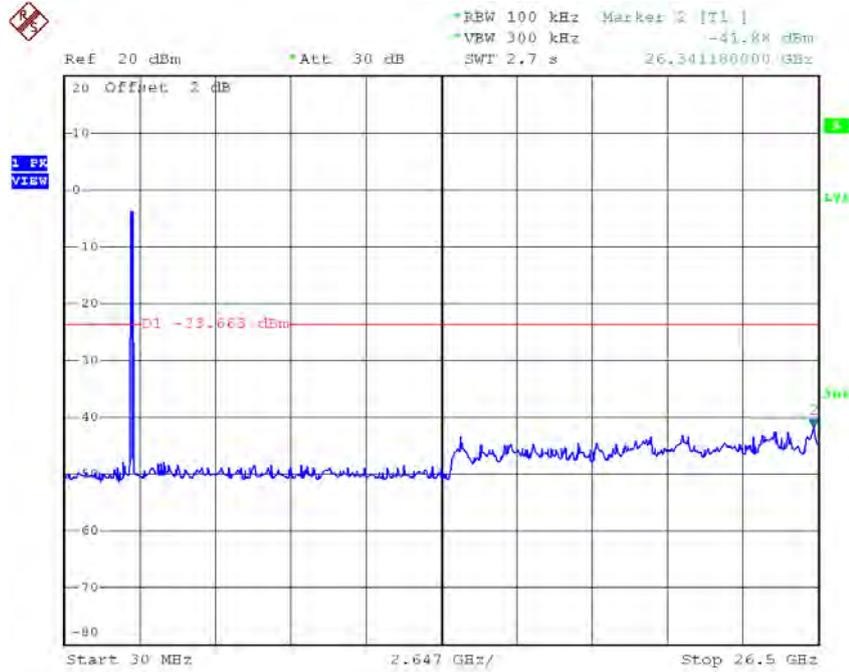
Date: 1.DEC.2015 15:44:31

TX HT20 mode CH11



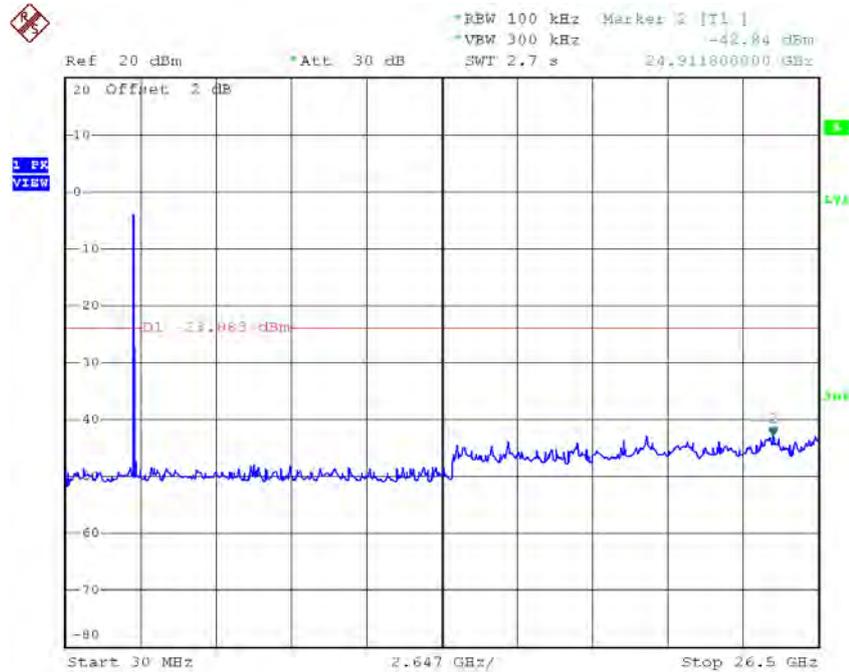
Date: 1.DEC.2015 15:46:25

TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:44:23

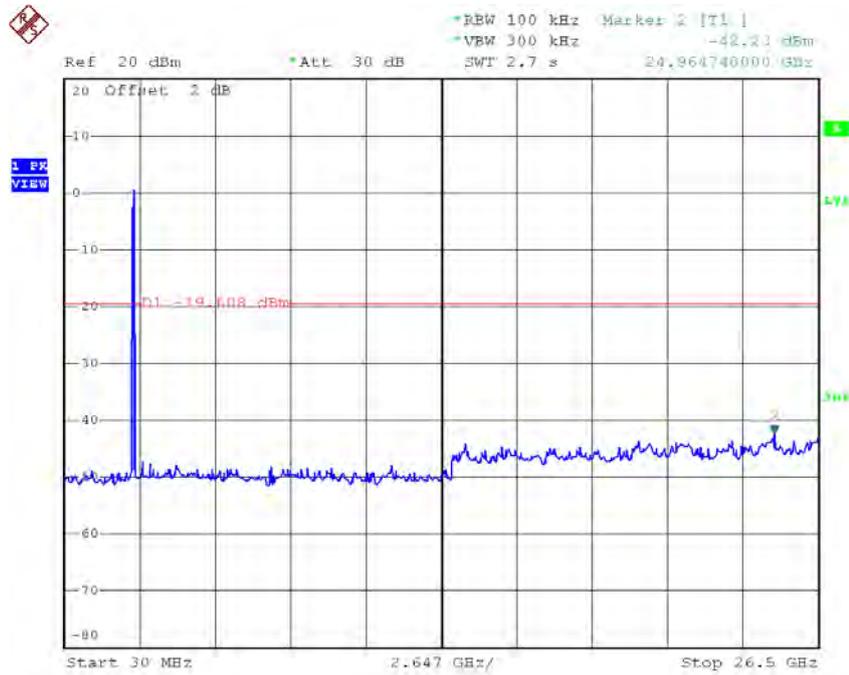
TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:45:26

Test Mode :	TX N-20M Mode_ANT 2
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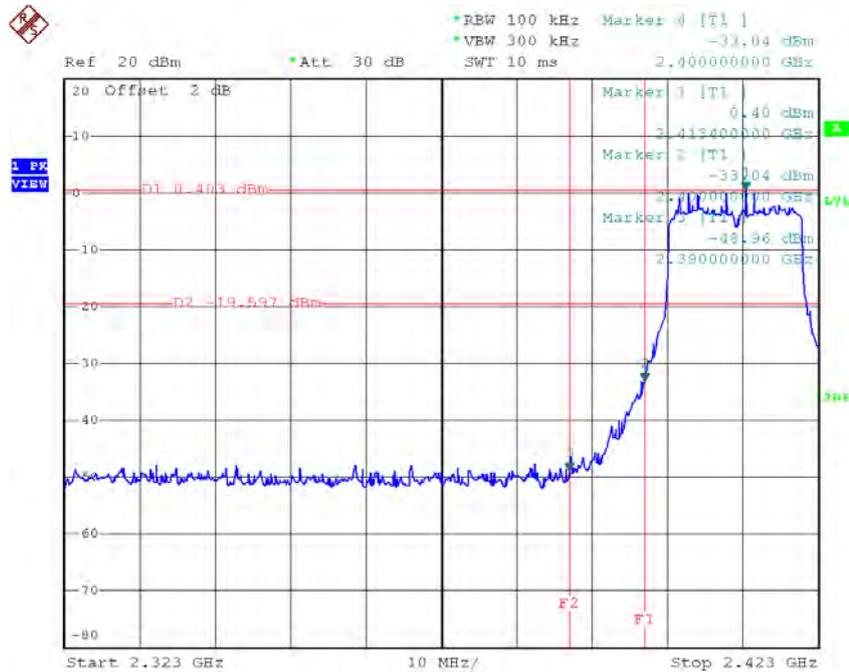
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:35:34

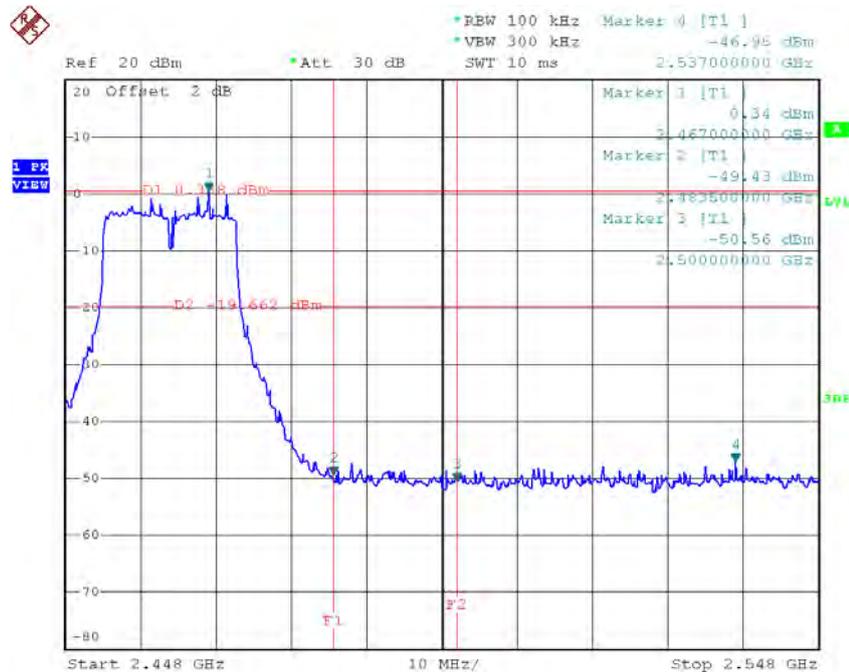
Test Mode :	TX N-20M Mode_ANT 3
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TX HT20 mode CH01



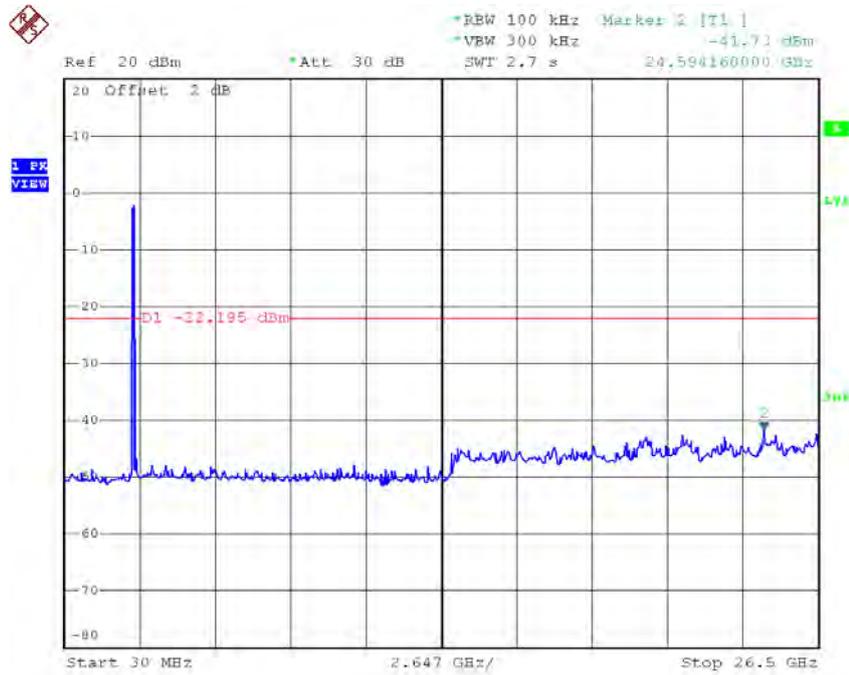
Date: 1.DEC.2015 15:52:04

TX HT20 mode CH11



Date: 1.DEC.2015 15:53:57

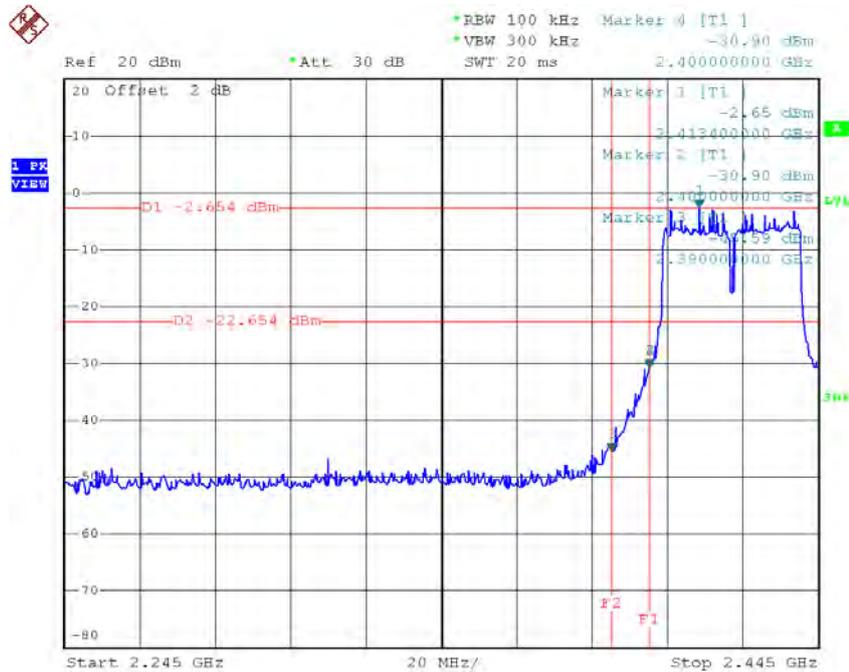
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:53:49

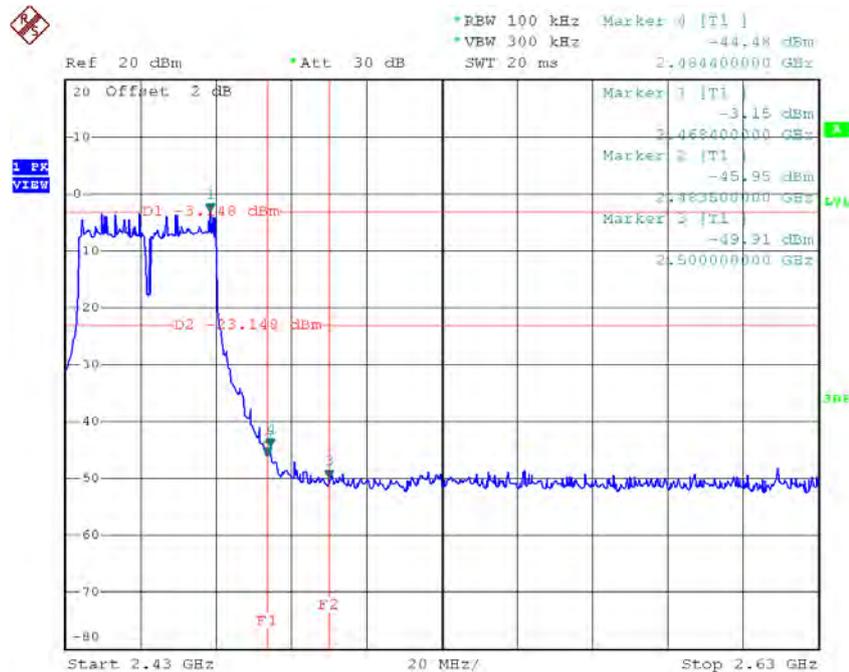
Test Mode :	TX N-40M Mode_ANT 1
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TX HT40 mode CH03



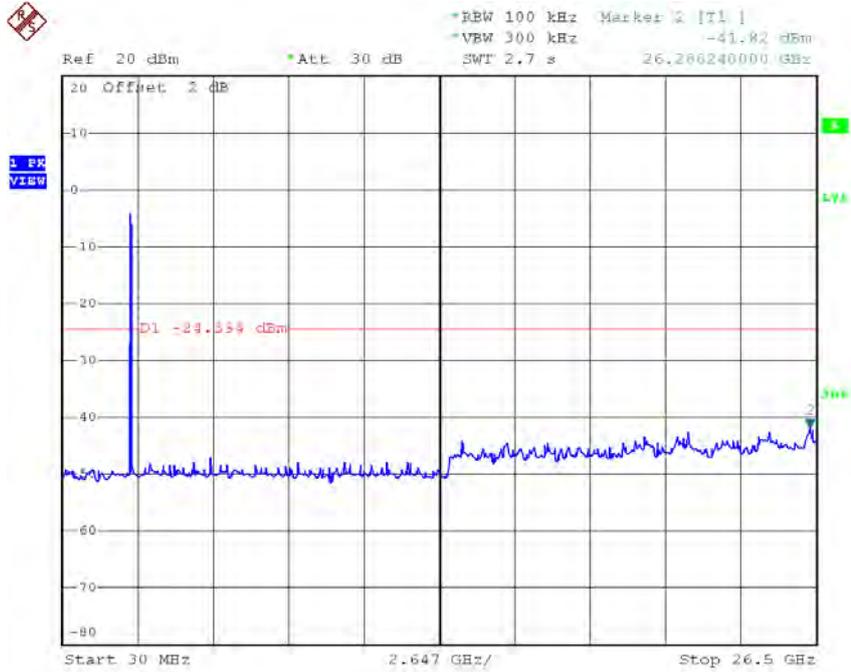
Date: 1.DEC.2015 15:47:30

TX HT40 mode CH09



Date: 1.DEC.2015 15:49:29

TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:49:21

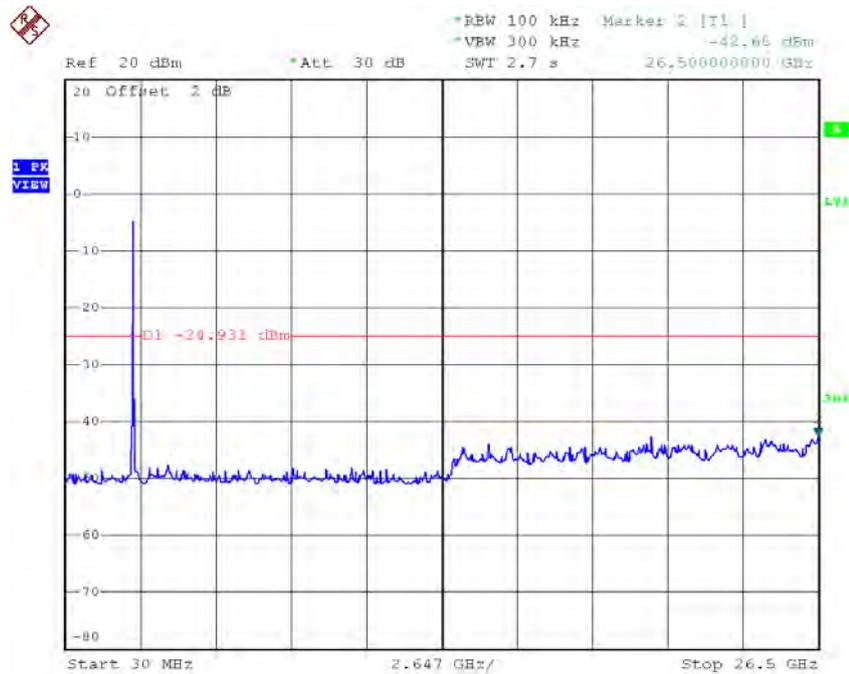
Test Mode :	TX N-40M Mode_ANT 2
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TX HT40 mode CH03 (10 Harmonic of the frequency)



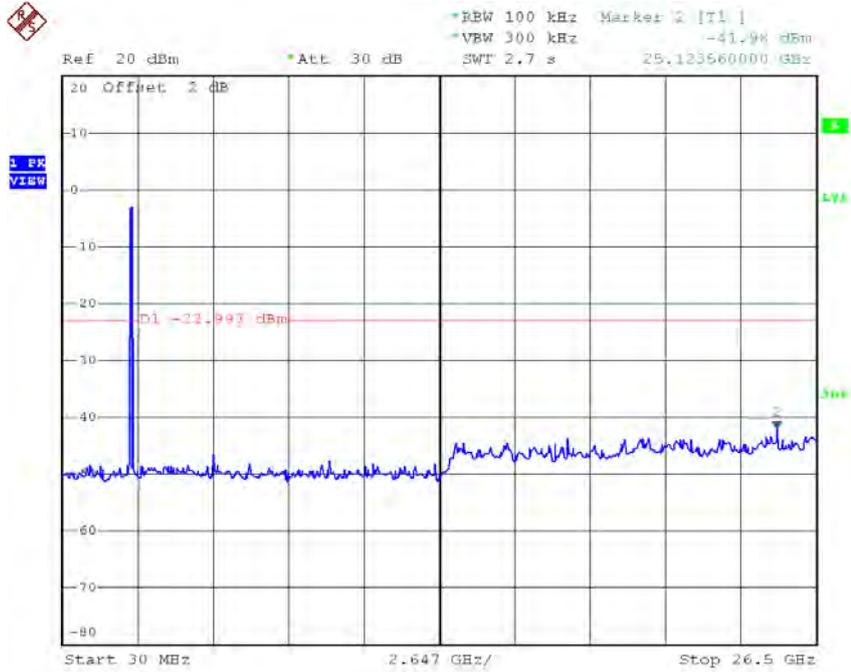
Date: 1.DEC.2015 15:37:10

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:39:10

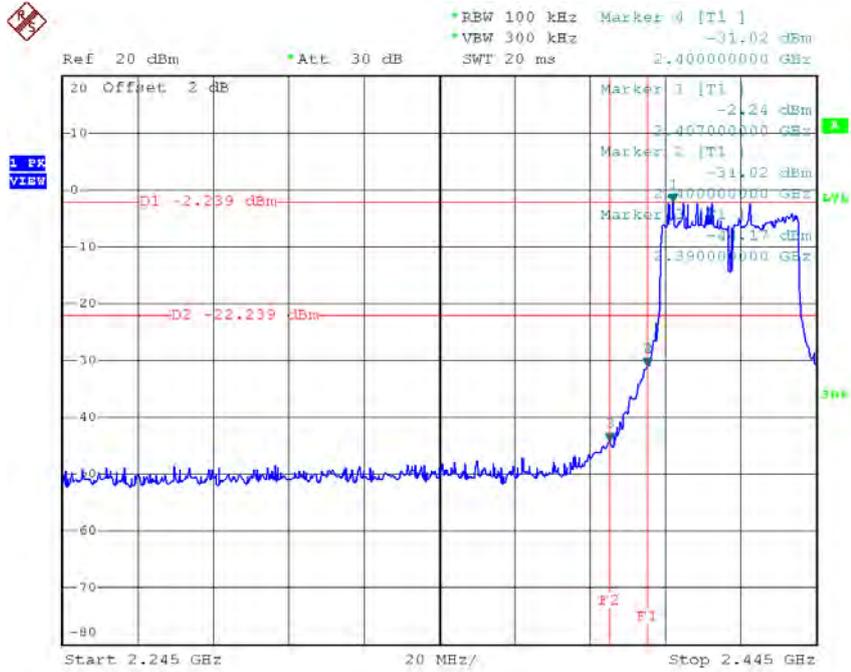
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:40:06

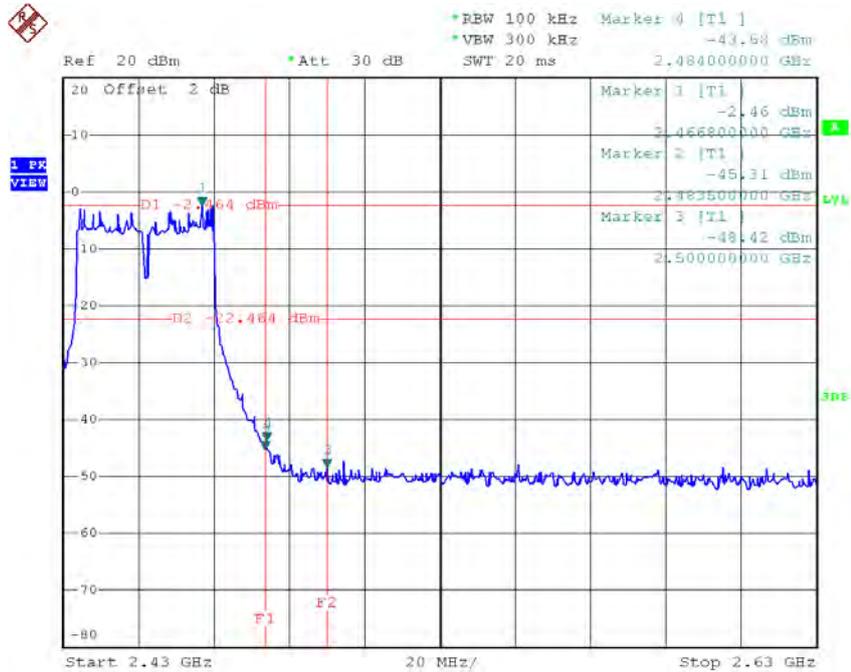
Test Mode :	TX N-40M Mode_ANT 3
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TX HT40 mode CH03



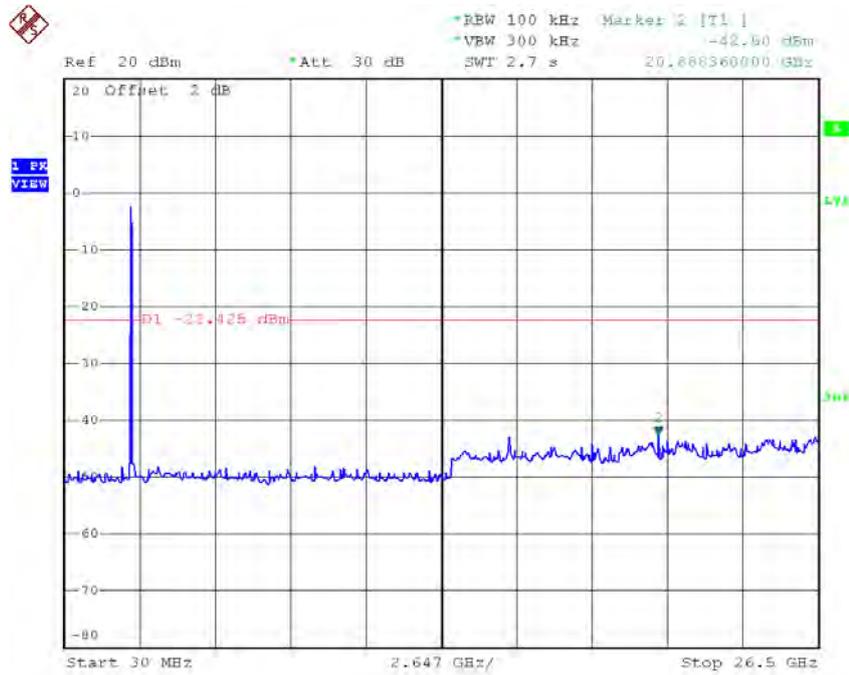
Date: 1.DEC.2015 15:55:11

TX HT40 mode CH09



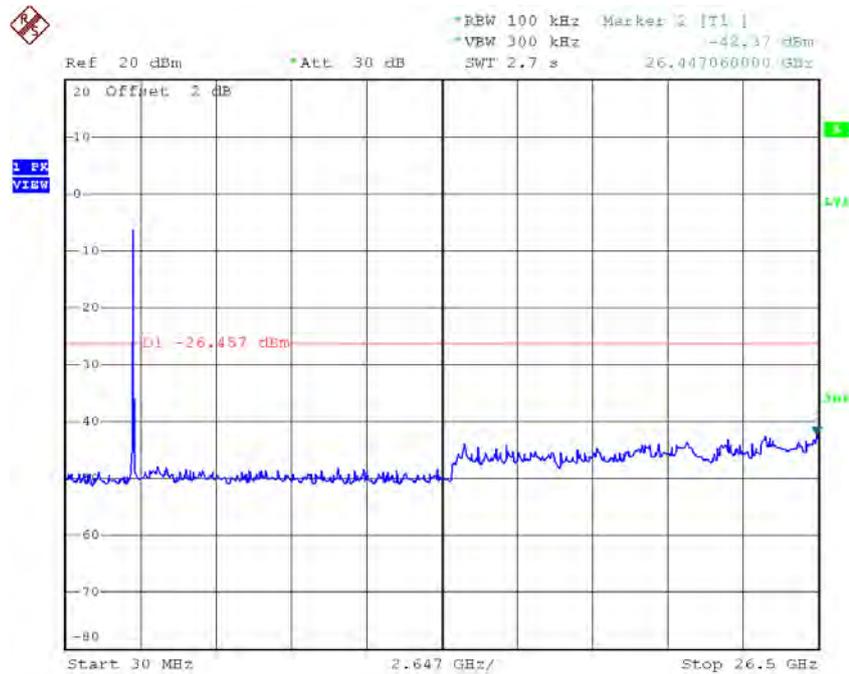
Date: 1.DEC.2015 15:57:33

TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 1.DEC.2015 15:55:03

TX HT40 mode CH06 (10 Harmonic of the frequency)



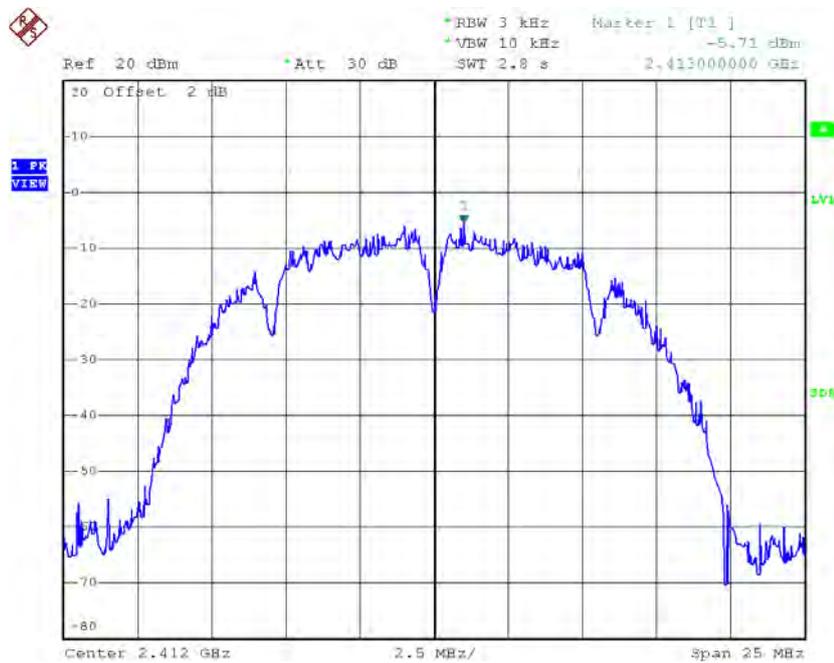
Date: 1.DEC.2015 15:56:31

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	-5.71	0.27	8.00	Complies
2437	-5.89	0.26	8.00	Complies
2462	-6.83	0.21	8.00	Complies

TX CH01



Date: 1.DEC.2015 15:23:06

TX CH06



Date: 1.DEC.2015 15:25:20

TX CH11

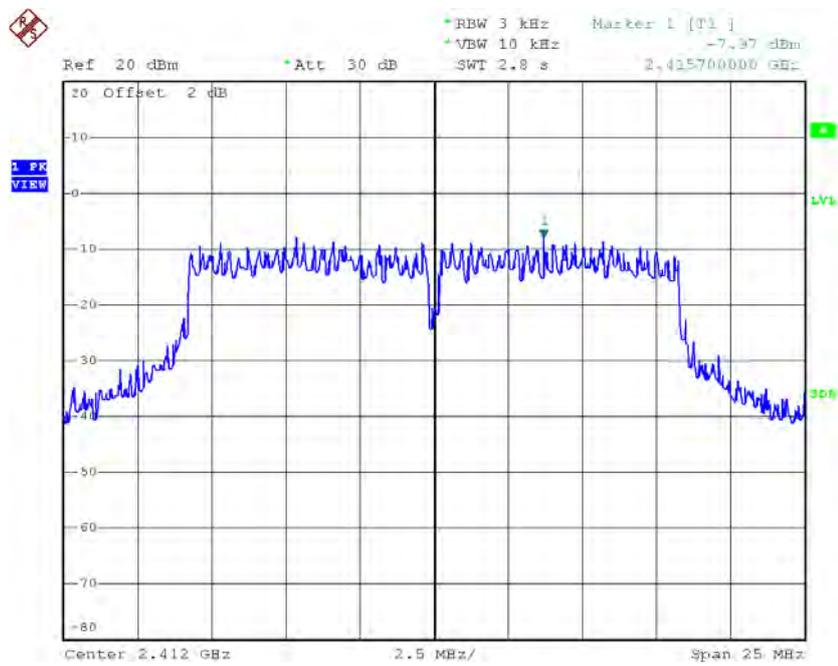


Date: 1.DEC.2015 15:26:53

Test Mode :TX G Mode_CH01/06/11

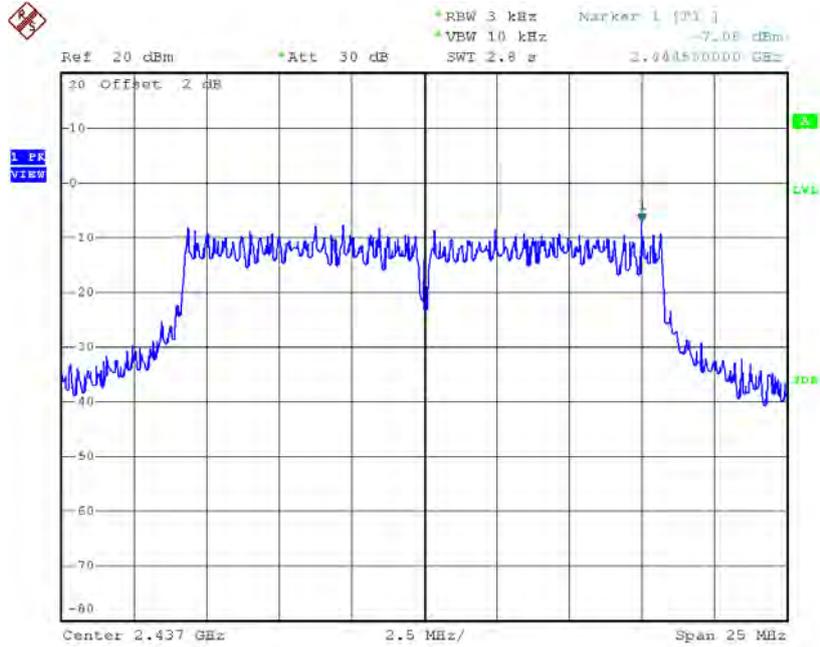
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-7.97	0.16	8.00	Complies
2437	-7.08	0.20	8.00	Complies
2462	-7.70	0.17	8.00	Complies

TX CH01



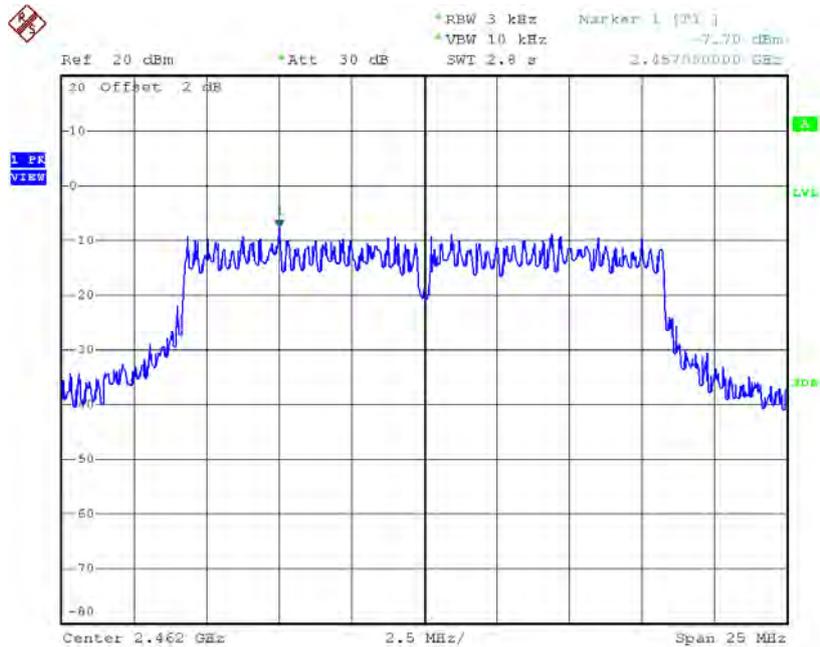
Date: 1.DEC.2015 15:28:09

TX CH06



Date: 1.DEC.2015 15:29:50

TX CH11

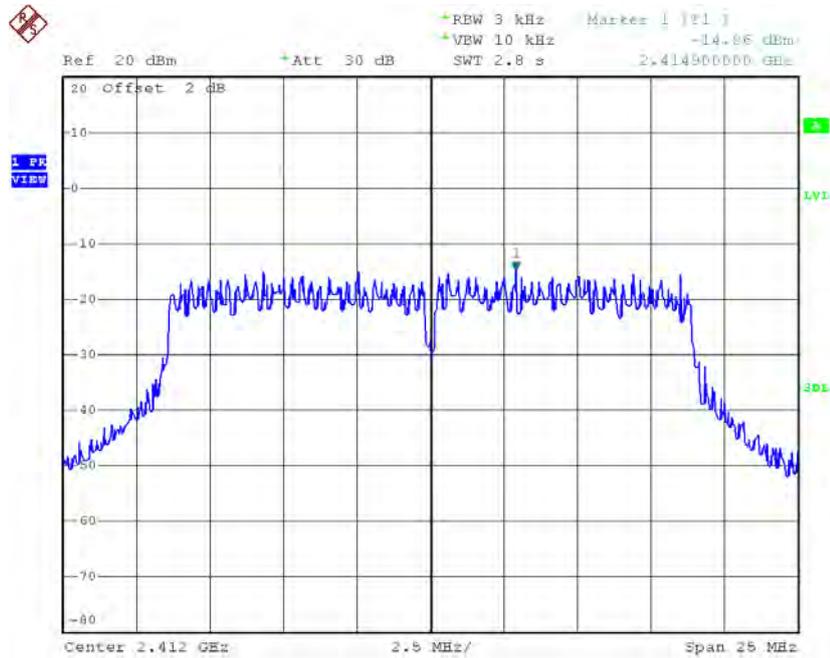


Date: 1.DEC.2015 15:31:06

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

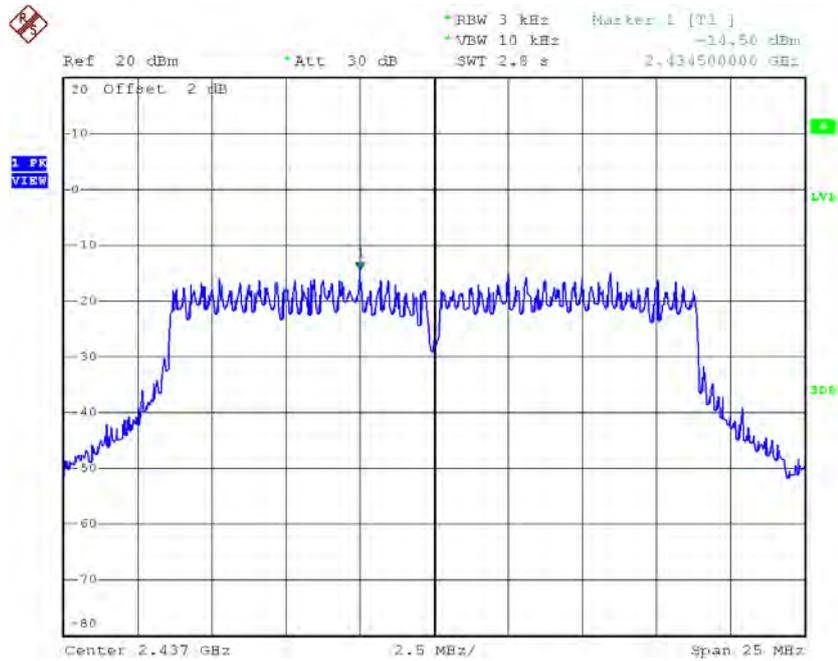
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.86	0.03	8.00	Complies
2437	-14.50	0.04	8.00	Complies
2462	-13.58	0.04	8.00	Complies

TX CH01



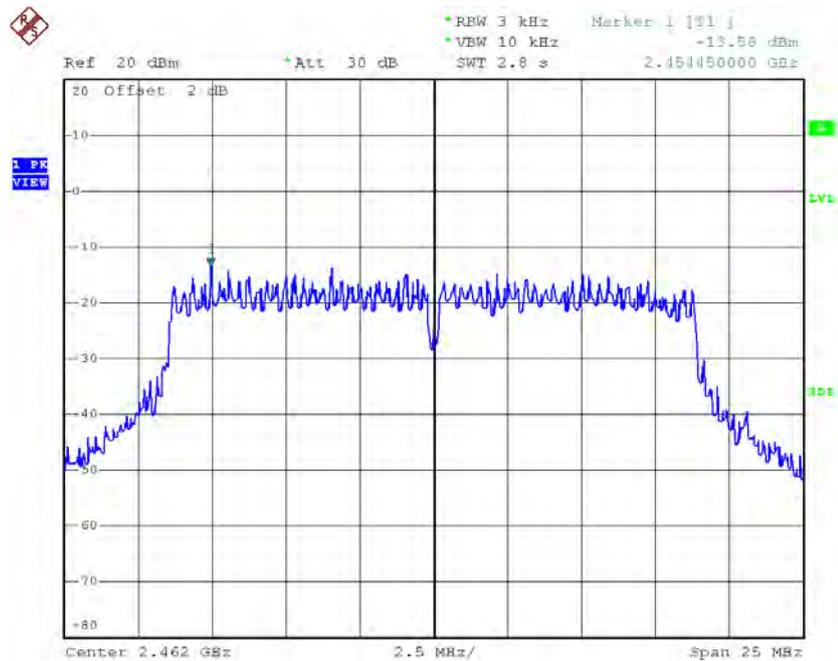
Date: 1.DEC.2015 15:44:40

TX CH06



Date: 1.DEC.2015 15:45:35

TX CH11

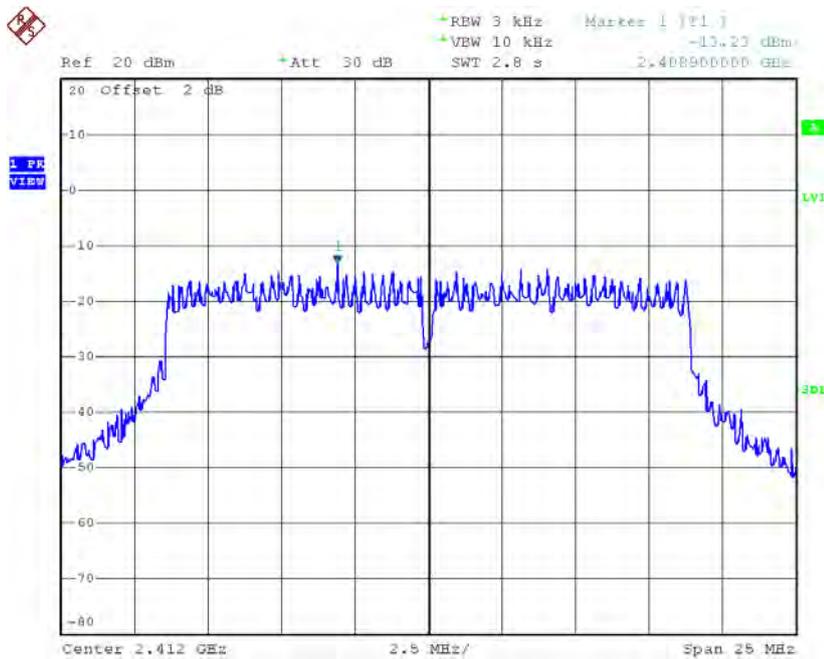


Date: 1.DEC.2015 15:46:34

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

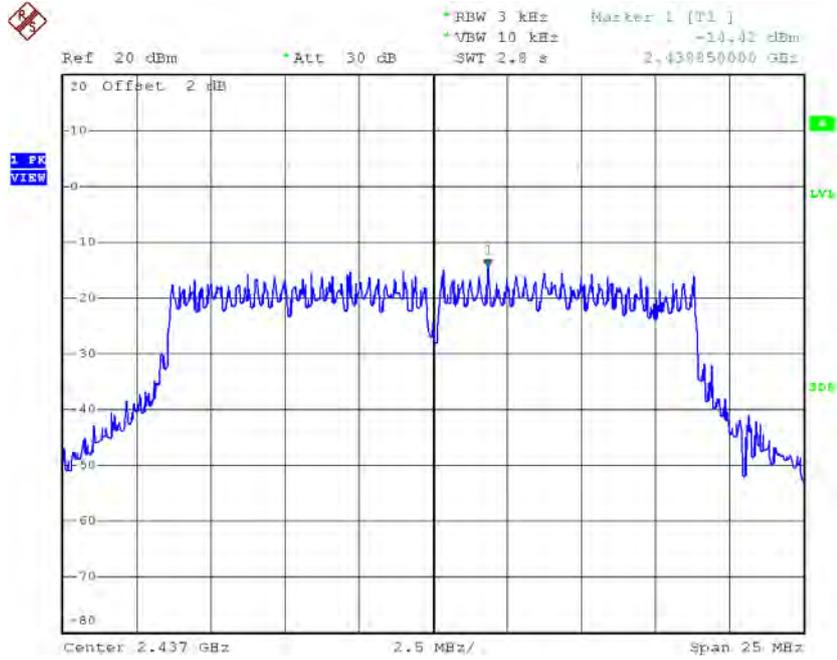
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.23	0.05	8.00	Complies
2437	-14.42	0.04	8.00	Complies
2462	-14.20	0.04	8.00	Complies

TX CH01



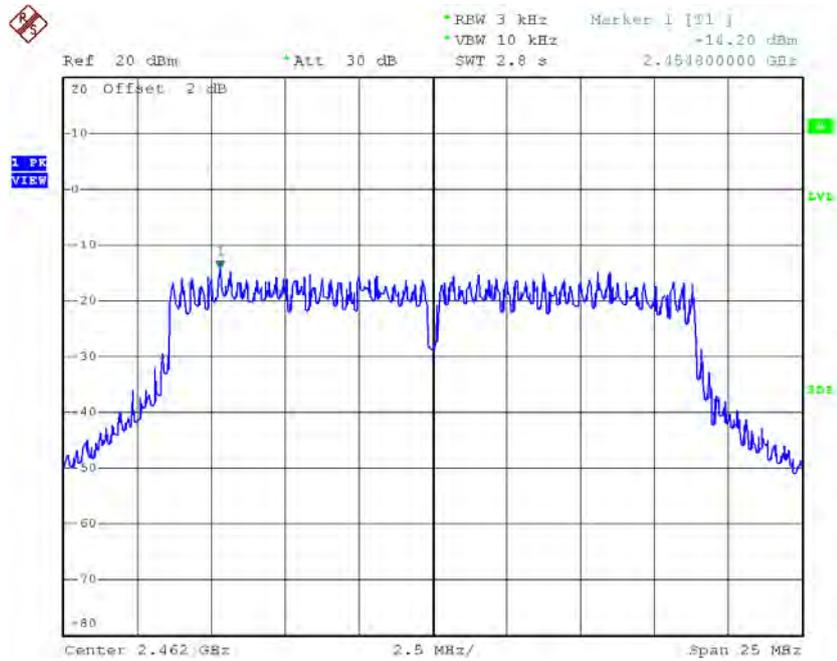
Date: 1.DEC.2015 15:33:29

TX CH06



Date: 1.DEC.2015 15:34:28

TX CH11

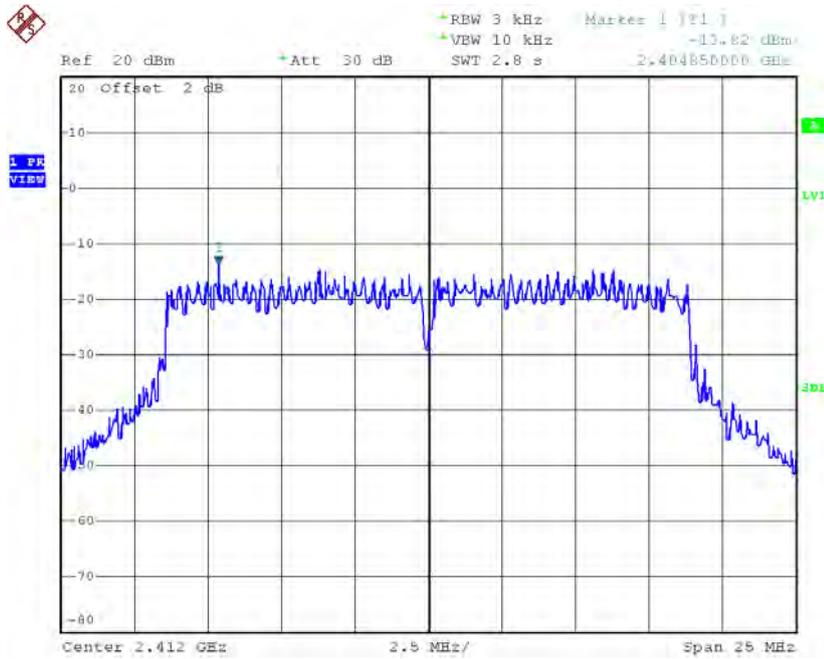


Date: 1.DEC.2015 15:35:51

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

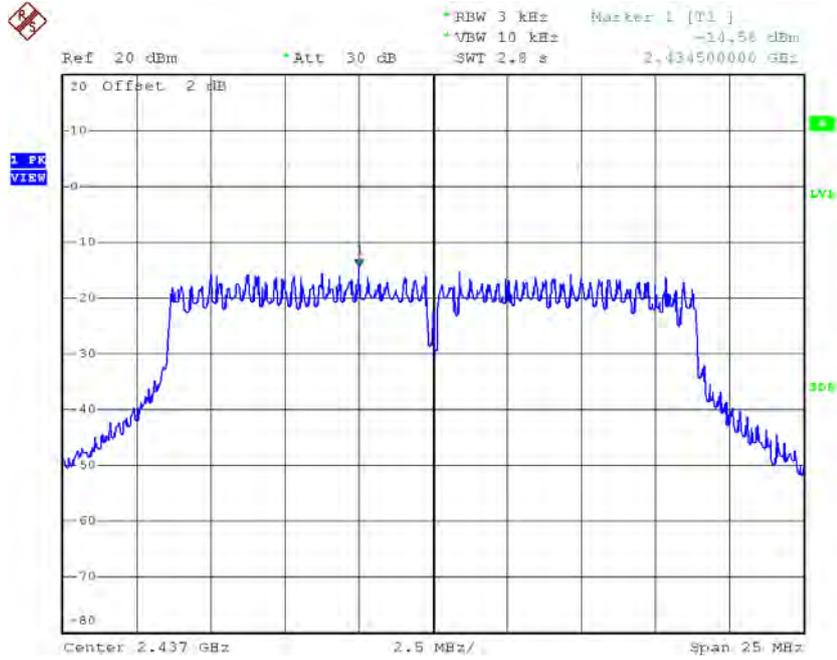
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-13.82	0.04	8.00	Complies
2437	-14.58	0.03	8.00	Complies
2462	-14.48	0.04	8.00	Complies

TX CH01



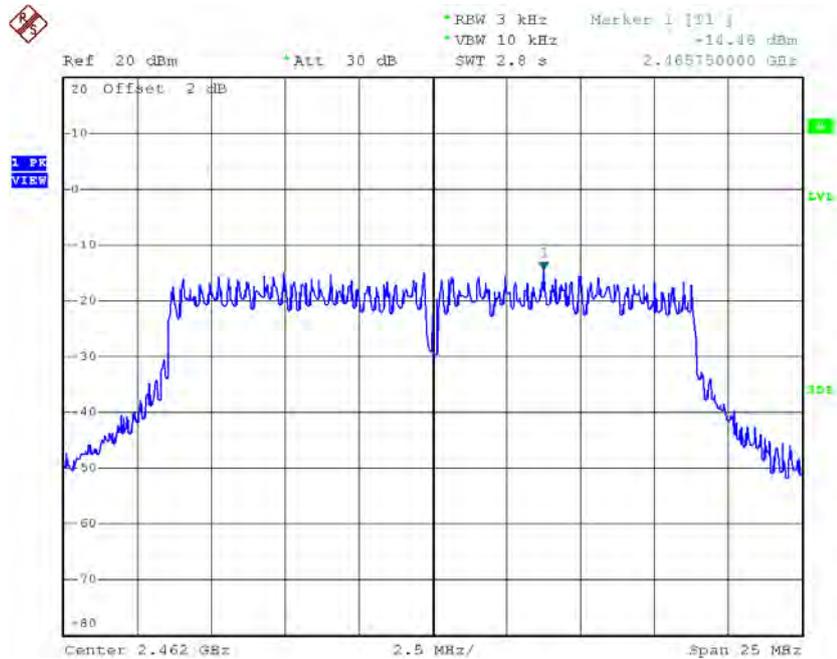
Date: 1.DEC.2015 15:52:13

TX CH06



Date: 1.DEC.2015 15:53:06

TX CH11



Date: 1.DEC.2015 15:54:06

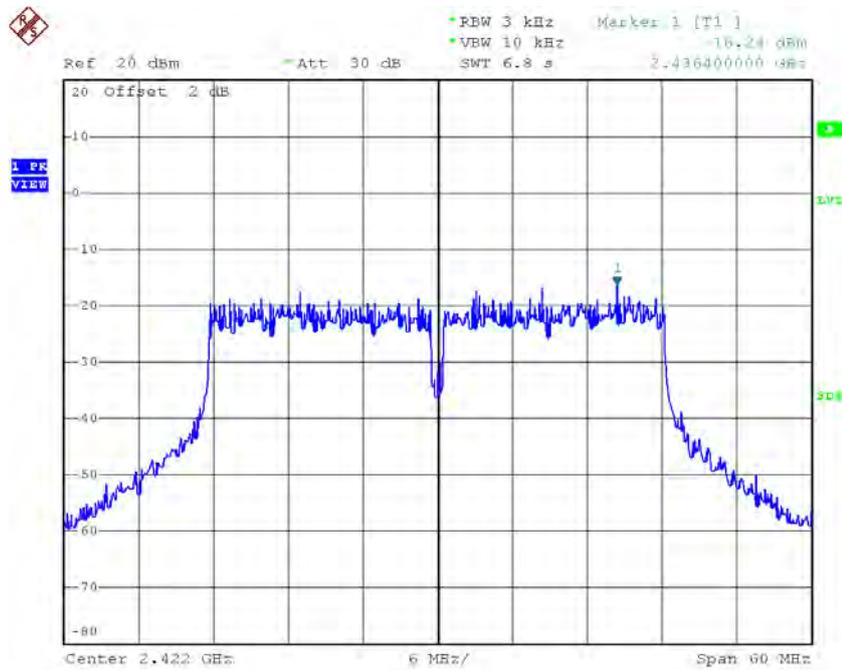
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-9.21	0.12	8.00	Complies
2437	-9.59	0.11	8.00	Complies
2462	-9.21	0.12	8.00	Complies

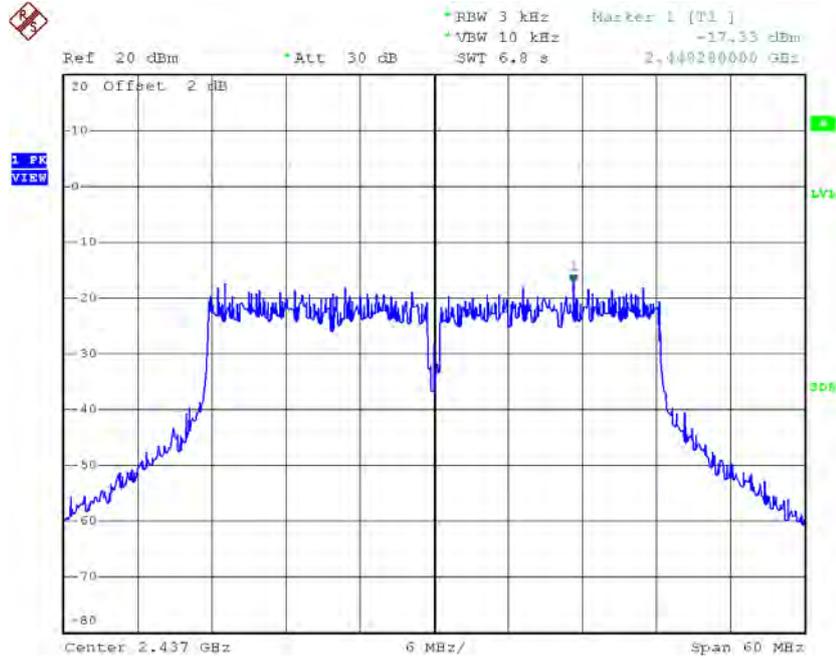
Test Mode : TX N-40M Mode_CH03/06/09_ANT 1

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.24	0.02	8.00	Complies
2437	-17.33	0.02	8.00	Complies
2452	-15.95	0.03	8.00	Complies

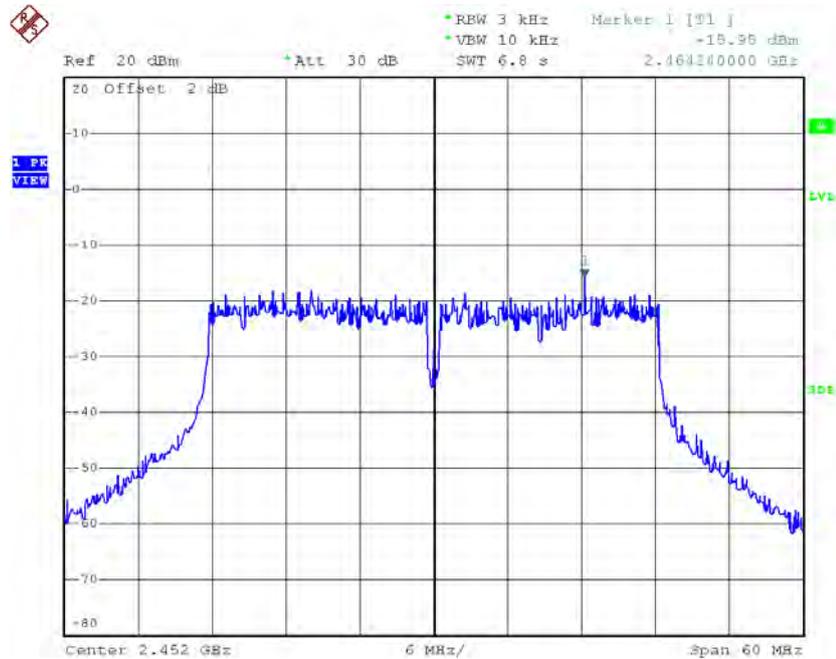
TX CH03



Date: 1.DEC.2015 15:47:42

TX CH06

Date: 1.DEC.2015 15:48:39

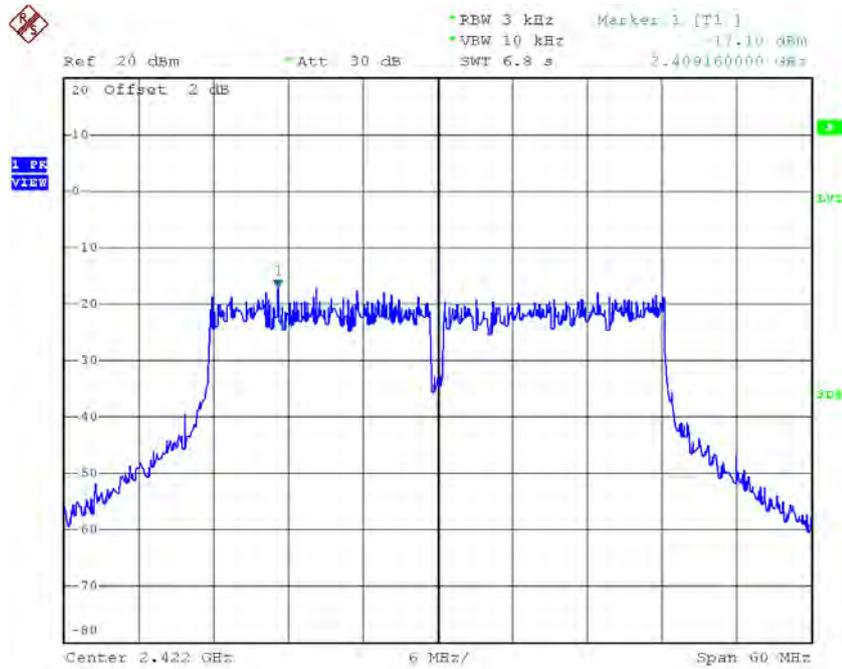
TX CH09

Date: 1.DEC.2015 15:49:41

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

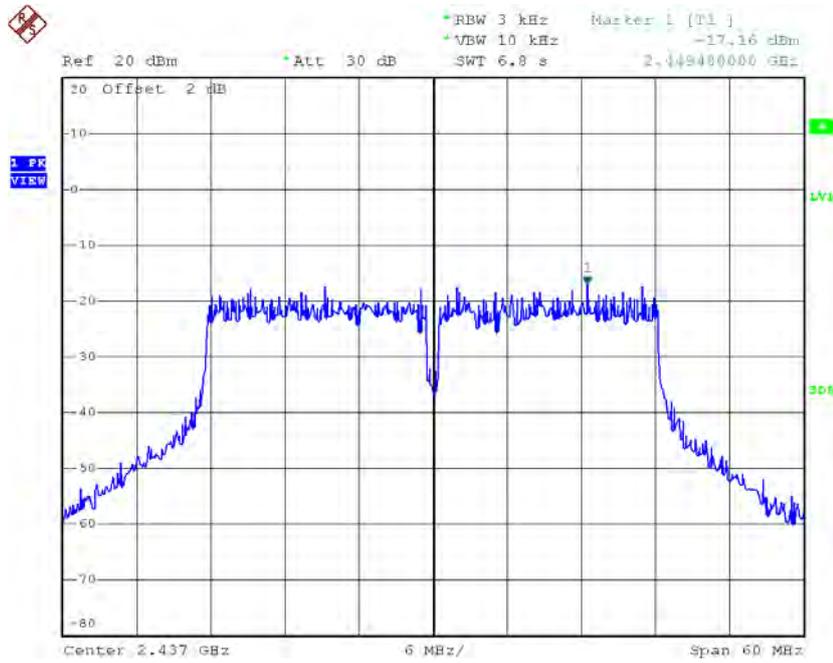
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-17.10	0.02	8.00	Complies
2437	-17.16	0.02	8.00	Complies
2452	-17.31	0.02	8.00	Complies

TX CH03



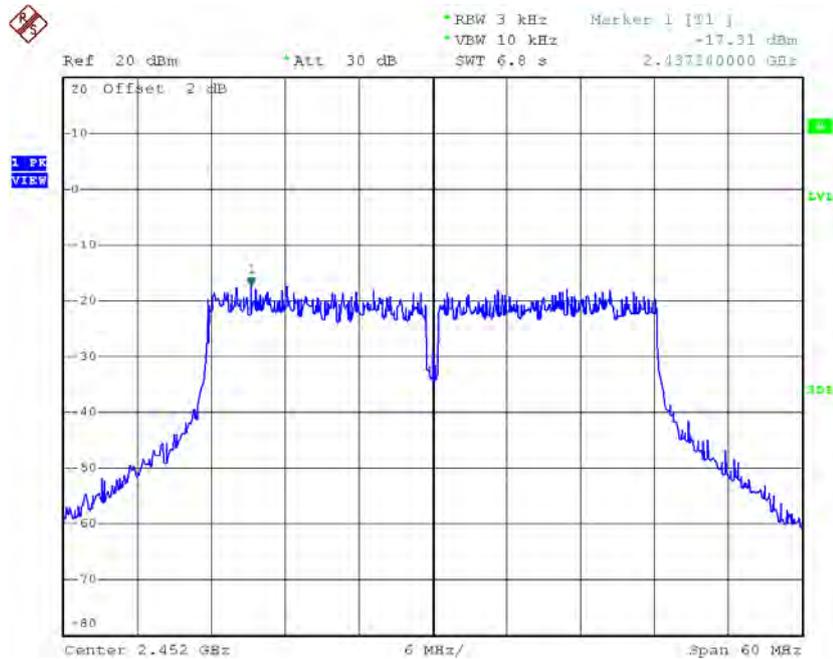
Date: 1.DEC.2015 15:37:30

TX CH06



Date: 1.DEC.2015 15:39:22

TX CH09

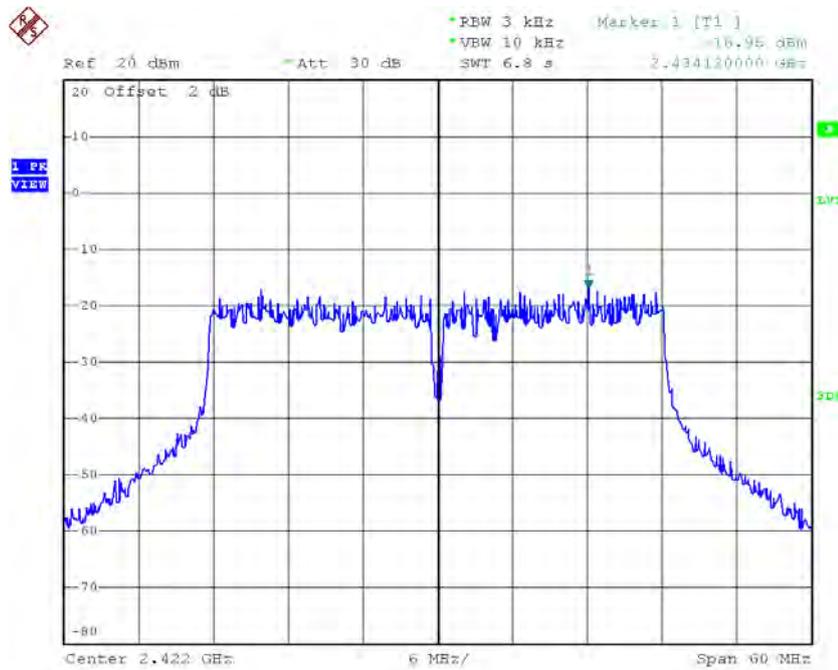


Date: 1.DEC.2015 15:41:20

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

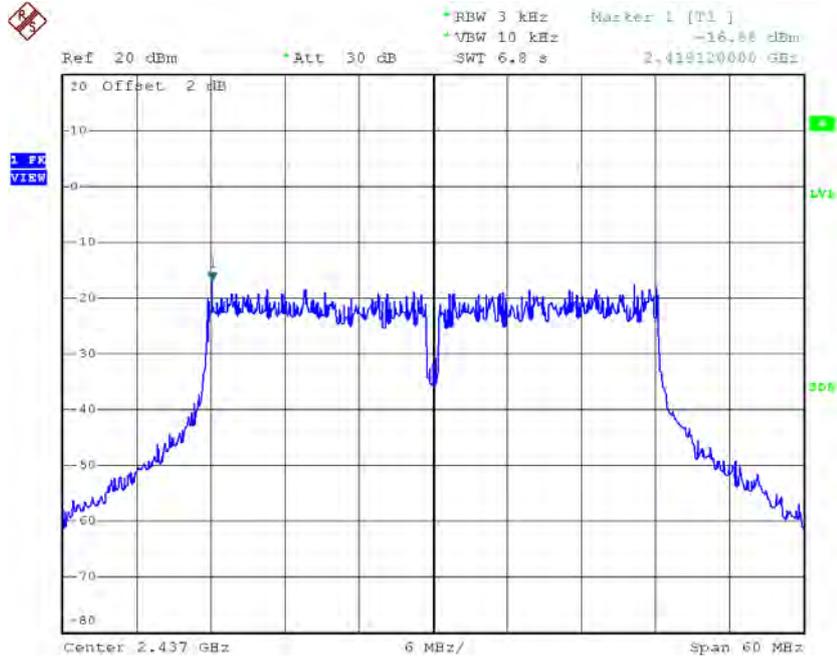
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.95	0.02	8.00	Complies
2437	-16.88	0.02	8.00	Complies
2452	-16.98	0.02	8.00	Complies

TX CH03



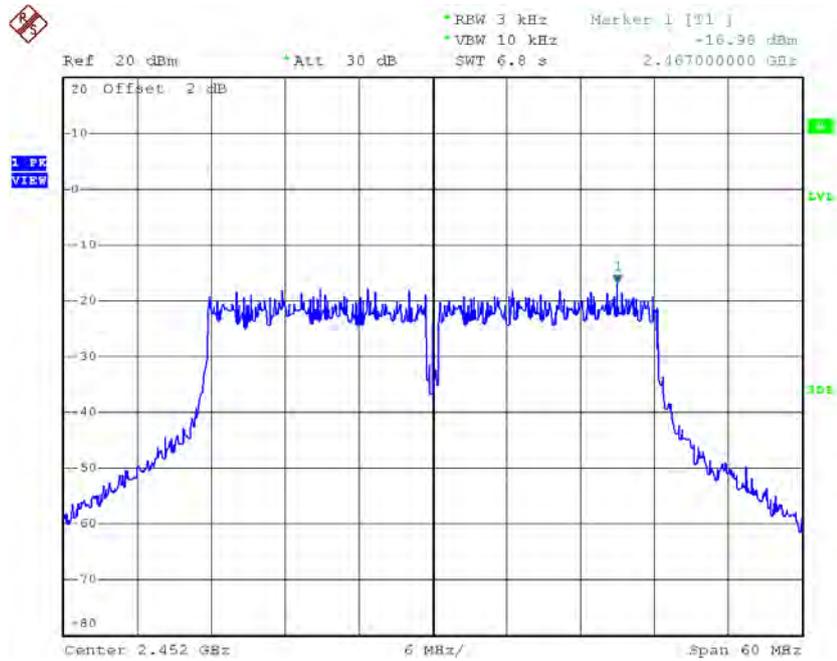
Date: 1.DEC.2015 15:55:47

TX CH06



Date: 1.DEC.2015 15:56:43

TX CH09



Date: 1.DEC.2015 15:57:45

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	-12.22	0.06	8.00	Complies
2437	-12.22	0.06	8.00	Complies
2452	-11.55	0.07	8.00	Complies