

FCC Radio Test Report

FCC ID: T58SEC111H

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

Project No. : 1503C202A
Equipment : 720P HD Wireless IP Camera / 4CH Wireless IP Camera & NVR Security Kit
Model Name : SEC111; SEK204
Applicant : NETIS SYSTEMS CO., LTD
Address : 4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan, Shenzhen, China.

Date of Receipt : Jul. 06, 2015
Date of Test : Jul. 06, 2015~Aug. 07, 2015
Issued Date : Aug. 10, 2015
Tested by : 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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Table of Contents	Page
1 . CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3 . GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	10
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	11
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	12
3.5 DESCRIPTION OF SUPPORT UNITS	12
4 . EMC EMISSION TEST	13
4.1 CONDUCTED EMISSION MEASUREMENT	13
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	13
4.1.2 TEST PROCEDURE	13
4.1.3 DEVIATION FROM TEST STANDARD	13
4.1.4 TEST SETUP	14
4.1.5 EUT OPERATING CONDITIONS	14
4.1.6 EUT TEST CONDITIONS	14
4.1.7 TEST RESULTS	14
4.2 RADIATED EMISSION MEASUREMENT	15
4.2.1 RADIATED EMISSION LIMITS	15
4.2.2 TEST PROCEDURE	16
4.2.3 DEVIATION FROM TEST STANDARD	16
4.2.4 TEST SETUP	17
4.2.5 EUT OPERATING CONDITIONS	18
4.2.6 EUT TEST CONDITIONS	18
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	19
4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)	19
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	19
5 . BANDWIDTH TEST	20
5.1 APPLIED PROCEDURES	20
5.1.1 TEST PROCEDURE	20
5.1.2 DEVIATION FROM STANDARD	20
5.1.3 TEST SETUP	20
5.1.4 EUT OPERATION CONDITIONS	20
5.1.5 EUT TEST CONDITIONS	20
5.1.6 TEST RESULTS	20
6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST	21

Table of Contents	Page
6.1 APPLIED PROCEDURES / LIMIT	21
6.1.1 TEST PROCEDURE	21
6.1.2 DEVIATION FROM STANDARD	21
6.1.3 TEST SETUP	21
6.1.4 EUT OPERATION CONDITIONS	21
6.1.5 EUT TEST CONDITIONS	21
6.1.6 TEST RESULTS	21
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	22
7.1 APPLIED PROCEDURES / LIMIT	22
7.1.1 TEST PROCEDURE	22
7.1.2 DEVIATION FROM STANDARD	22
7.1.3 TEST SETUP	22
7.1.4 EUT OPERATION CONDITIONS	22
7.1.5 EUT TEST CONDITIONS	22
7.1.6 TEST RESULTS	22
8 . POWER SPECTRAL DENSITY TEST	23
8.1 APPLIED PROCEDURES / LIMIT	23
8.1.1 TEST PROCEDURE	23
8.1.2 DEVIATION FROM STANDARD	23
8.1.3 TEST SETUP	23
8.1.4 EUT OPERATION CONDITIONS	23
8.1.5 EUT TEST CONDITIONS	23
8.1.6 TEST RESULTS	23
9 . MEASUREMENT INSTRUMENTS LIST	24
10 . EUT TEST PHOTO	26
ATTACHMENT A - CONDUCTED EMISSION	30
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	33
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	35
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)	42
ATTACHMENT E - BANDWIDTH	91
ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER	100
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION	102
ATTACHMENT H - POWER SPECTRAL DENSITY	119

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1503C202A	Original Issue.	Aug. 10, 2015

1. CERTIFICATION

Equipment : 720P HD Wireless IP Camera / 4CH Wireless IP Camera & NVR Security Kit
Brand Name : netis
Model Name : SEC111, SEK204
Applicant : NETIS SYSTEMS CO., LTD
Manufacturer : Shenzhen Netcore Industrial Ltd.
Address : 4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan, Shenzhen, China.
Factory : Dongguan City Netcore Network Technology Co.,Ltd.
Address : No.10-1,Sankeng Road,Qinghutou,Tangxia Town,Dongguan City
Date of Test : Jul. 06, 2015~Aug. 07, 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-1-1503C202A) 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 $y \pm U$, 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)	Note
DG-C02	CISPR	150 KHz ~ 30MHz	2.32	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.78	
		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	720P HD Wireless IP Camera / 4CH Wireless IP Camera & NVR Security Kit	
Brand Name	netis	
Model Name	SEC111, SEK204	
Model Difference	SEK204 is suit models,including the SEC111 and SEV204 camera. Model SEV204 Please refer to BTL-FCCP-1-1503C201A.	
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
	Output Power (Max.)	802.11b: 16.67dBm 802.11g: 23.82dBm 802.11n(20MHz): 23.36dBm 802.11n(40MHz): 23.18dBm
Power Source	DC voltage supplied from AC/DC Adapter. Brand/ Model: tenpao/ NT12V1AUL	
Power Rating	I/P: 100-240V~ 0.3A 50/60Hz O/P: DC 12V 1A	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		RF21S00002A	Dipole	R-SMA	5.19

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	TX MODE

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

Note:

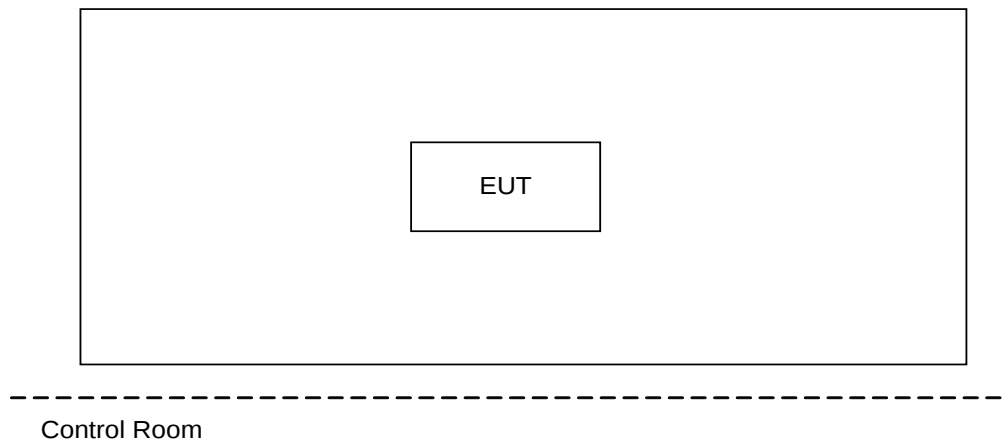
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (6.5Mbps)
802.11n HT40 mode : BPSK (13.5Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For 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	REALTEK n11		
Frequency (MHz)	2412	2437	2462
802.11b	44	43	42
802.11g	54	53	52
802.11n (20MHz)	55	54	42
Frequency	2422	2437	2452
802.11n (40MHz)	45	54	43

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.	Note
-	-	-	-	-	-	-

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

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.□	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

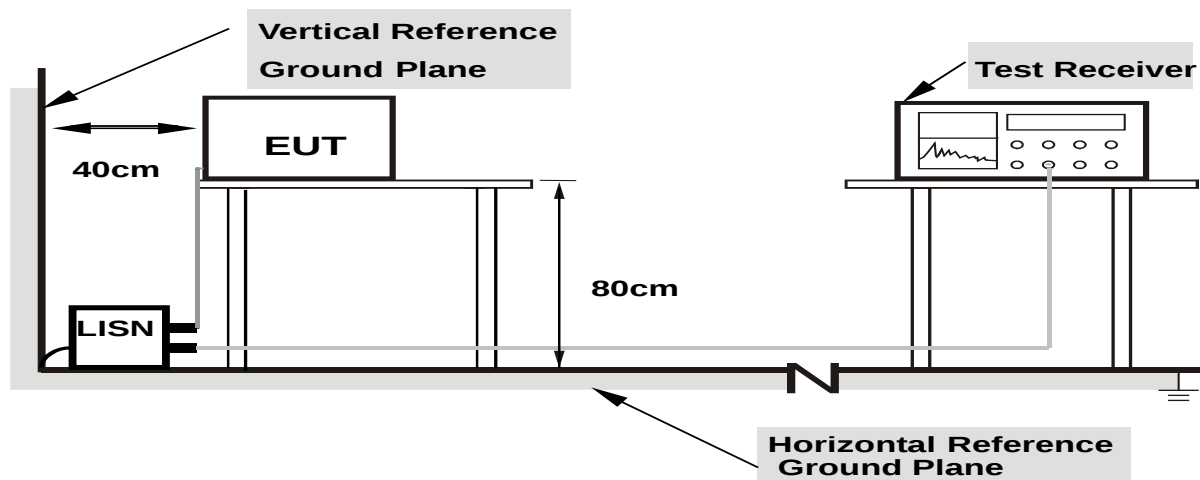
4.1.2 TEST PROCEDURE

- 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

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

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

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

4.2.2 TEST PROCEDURE

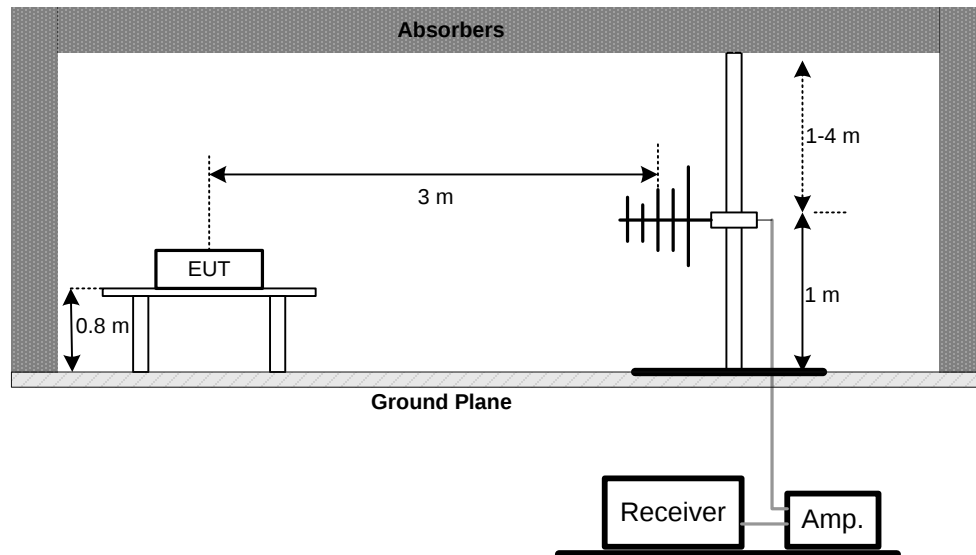
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of at 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, 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.
- The initial step in collecting conducted emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

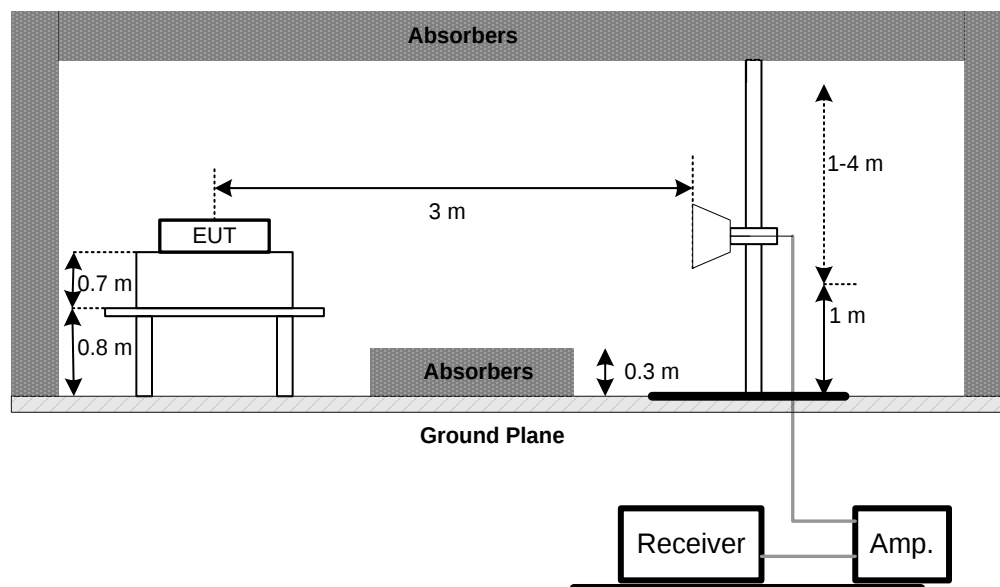
No deviation

4.2.4 TEST SETUP

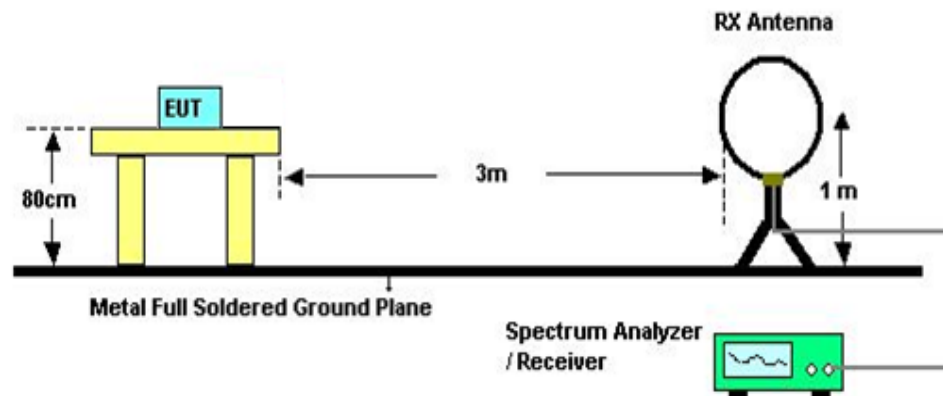
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 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

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

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

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

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	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	08122902	Mar. 28, 2016
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015
3	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
4	Antenna	ETS	3115	00075789	Mar. 28, 2016
5	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
6	Test Cable	emci	EMC104-SM-S M-10000(1GHz-26.5GHz)	C-68	Jun. 28, 2016
7	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
8	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
9	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 16, 2015
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

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

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

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

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

10. EUT TEST PHOTO

Conducted Measurement Photos



Radiated Measurement Photos

9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

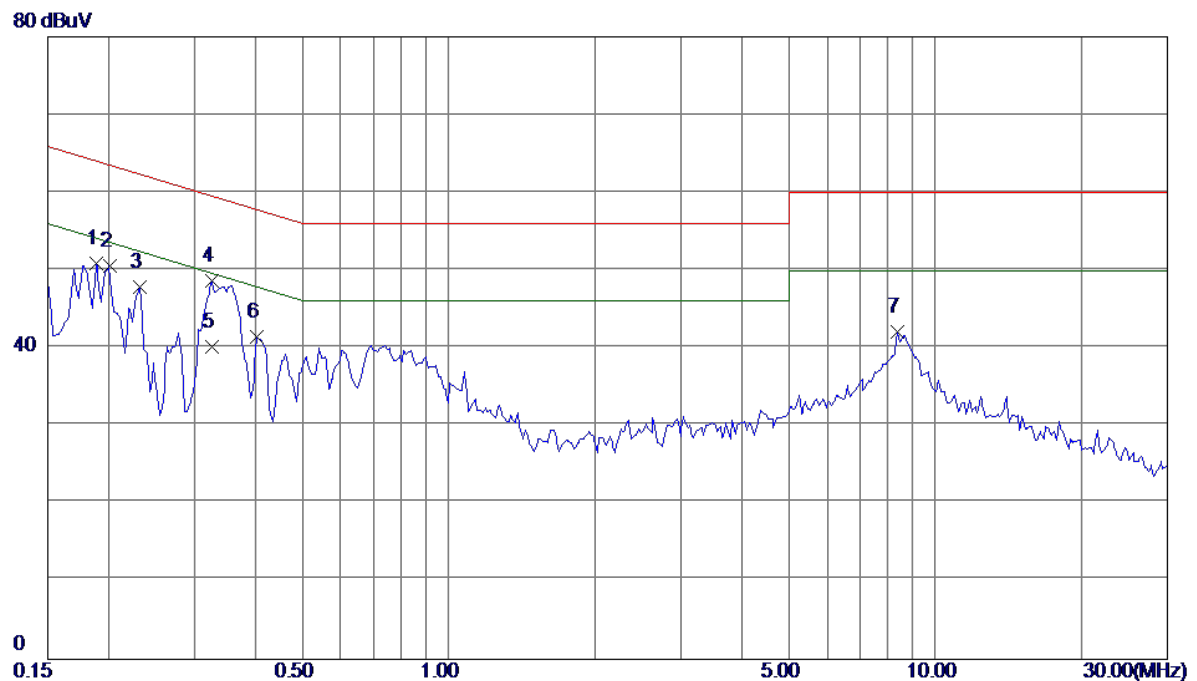
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : TX MODE

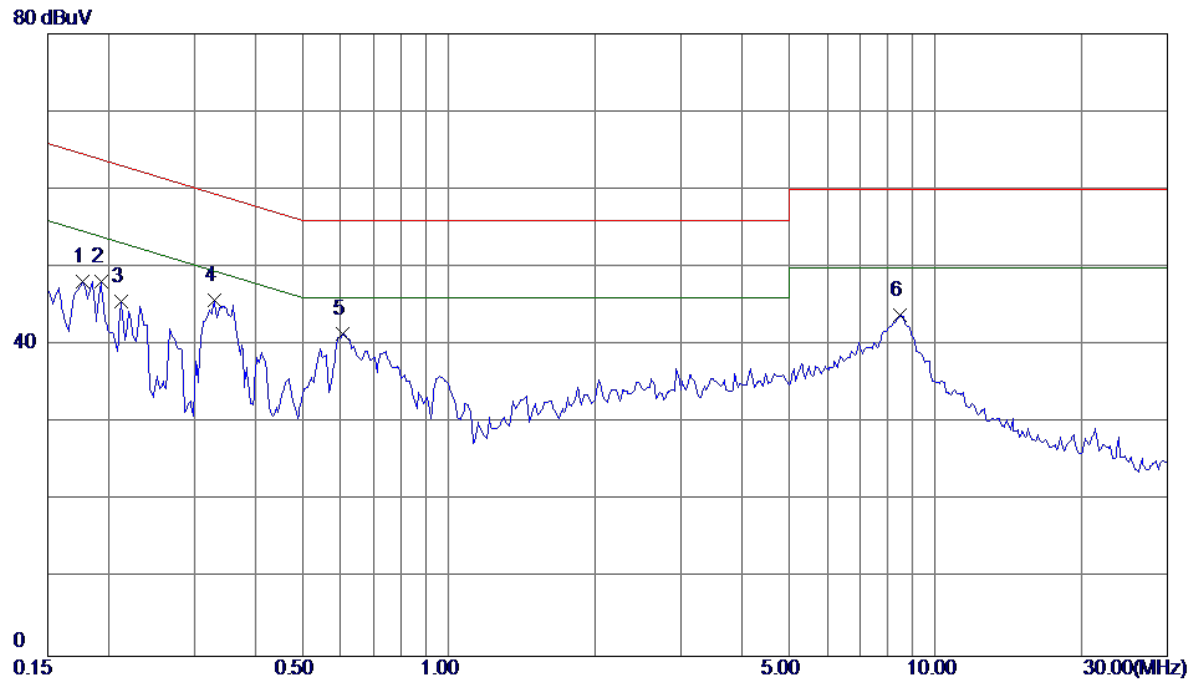
Line



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
1	0.1891	41.36	9.57	50.93	64.08	-13.15	Peak	
2	0.2008	41.06	9.57	50.63	63.58	-12.95	Peak	
3	0.2320	38.20	9.60	47.80	62.38	-14.58	Peak	
4	0.3258	39.01	9.64	48.65	59.56	-10.91	Peak	
5	0.3258	30.50	9.64	40.14	49.56	-9.42	AVG	
6	0.4039	31.83	9.68	41.51	57.77	-16.26	Peak	
7	8.3672	32.25	9.90	42.15	60.00	-17.85	Peak	

Test Mode : TX MODE

Neutral



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	Level	Factor	ment			Detector	Comment
1	0.1773	38.68	9.48	48.16	64.61	-16.45	Peak	
2	0.1930	38.62	9.50	48.12	63.91	-15.79	Peak	
3	0.2125	36.11	9.50	45.61	63.11	-17.50	Peak	
4	0.3297	36.22	9.53	45.75	59.46	-13.71	Peak	
5	0.6070	31.84	9.55	41.39	56.00	-14.61	Peak	
6	8.4688	33.99	9.85	43.84	60.00	-16.16	Peak	

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

Test Mode:	TX MODE
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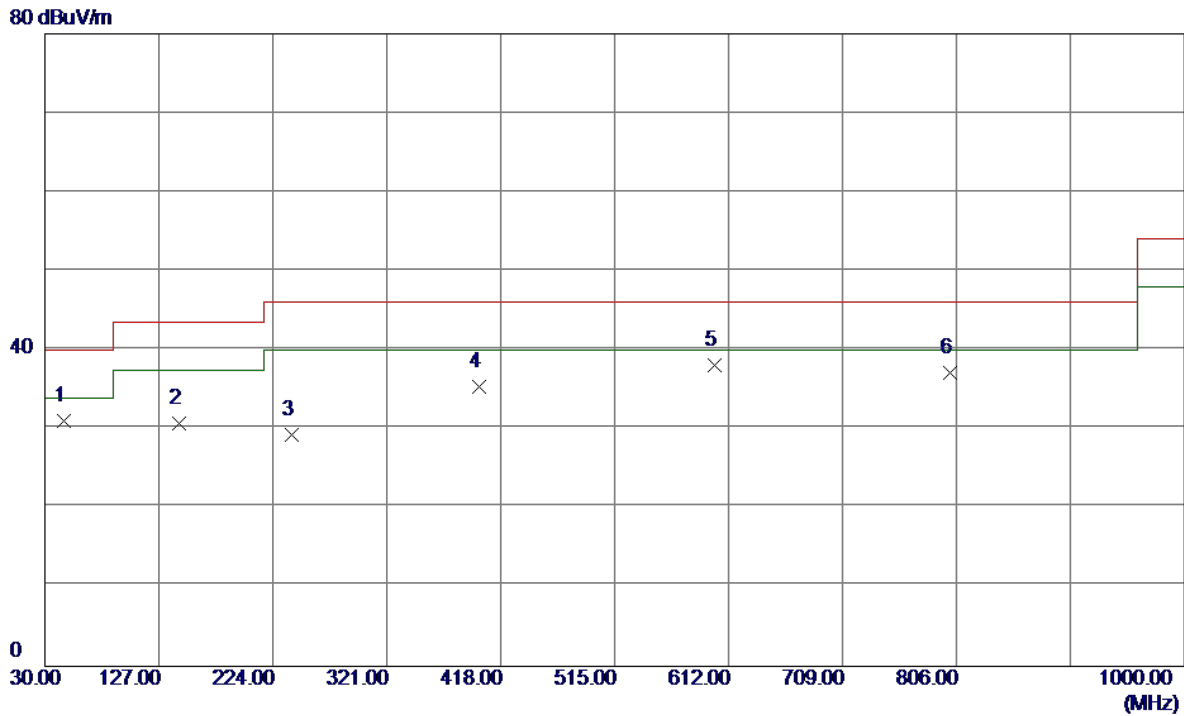
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00931	0°	13.21	24.9770	38.1870	128.2252	-90.0382	AVG
0.00931	0°	14.38	24.9770	39.3570	148.2252	-108.8682	PEAK
0.0235	0°	6.63	24.0783	30.7083	120.1829	-89.4745	AVG
0.0235	0°	8.02	24.0783	32.0983	140.1829	-108.0845	PEAK
0.0345	0°	3.27	23.3817	26.6517	116.8478	-90.1962	AVG
0.0345	0°	5.48	23.3817	28.8617	136.8478	-107.9862	PEAK
0.0422	0°	1.26	22.8940	24.1540	115.0980	-90.9440	AVG
0.0422	0°	2.43	22.8940	25.3240	135.0980	-109.7740	PEAK
0.4984	0°	19.26	19.8038	39.0638	73.6527	-34.5888	QP
1.7179	0°	23.61	19.5282	43.1382	69.5400	-26.4018	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00949	90°	13.25	24.3000	37.5500	128.0589	-90.5089	AVG
0.00949	90°	14.77	24.3000	39.0700	148.0589	-108.9889	PEAK
0.0233	90°	7.11	24.0910	31.2010	120.2571	-89.0561	AVG
0.0233	90°	8.28	24.0910	32.3710	140.2571	-107.8861	PEAK
0.0318	90°	5.69	23.5527	29.2427	117.5557	-88.3130	AVG
0.0318	90°	6.37	23.5527	29.9227	137.5557	-107.6330	PEAK
0.0437	90°	1.26	22.7990	24.0590	114.7946	-90.7356	AVG
0.0437	90°	2.48	22.7990	25.2790	134.7946	-109.5156	PEAK
0.4956	90°	22.16	19.8106	41.9706	73.7016	-31.7310	QP
1.7175	90°	24.32	19.5282	43.8482	69.5400	-25.6918	QP

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

Test Mode: TX B MODE CHANNEL 01

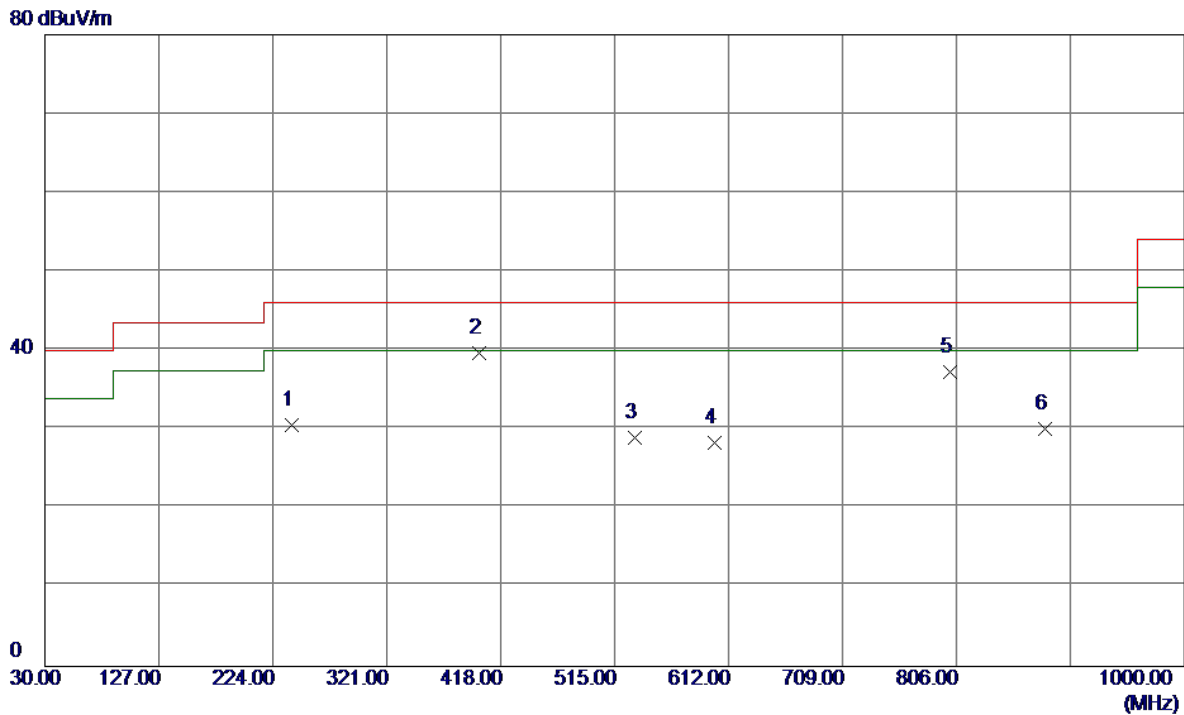
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	46.4900	50.87	-19.88	30.99	40.00	-9.01	Peak	
2	144.4600	50.35	-19.68	30.67	43.50	-12.83	Peak	
3	240.4900	45.83	-16.58	29.25	46.00	-16.75	Peak	
4	399.5700	49.17	-13.84	35.33	46.00	-10.67	Peak	
5	600.3600	51.97	-13.83	38.14	46.00	-7.86	Peak	
6	800.1800	43.93	-6.87	37.06	46.00	-8.94	Peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

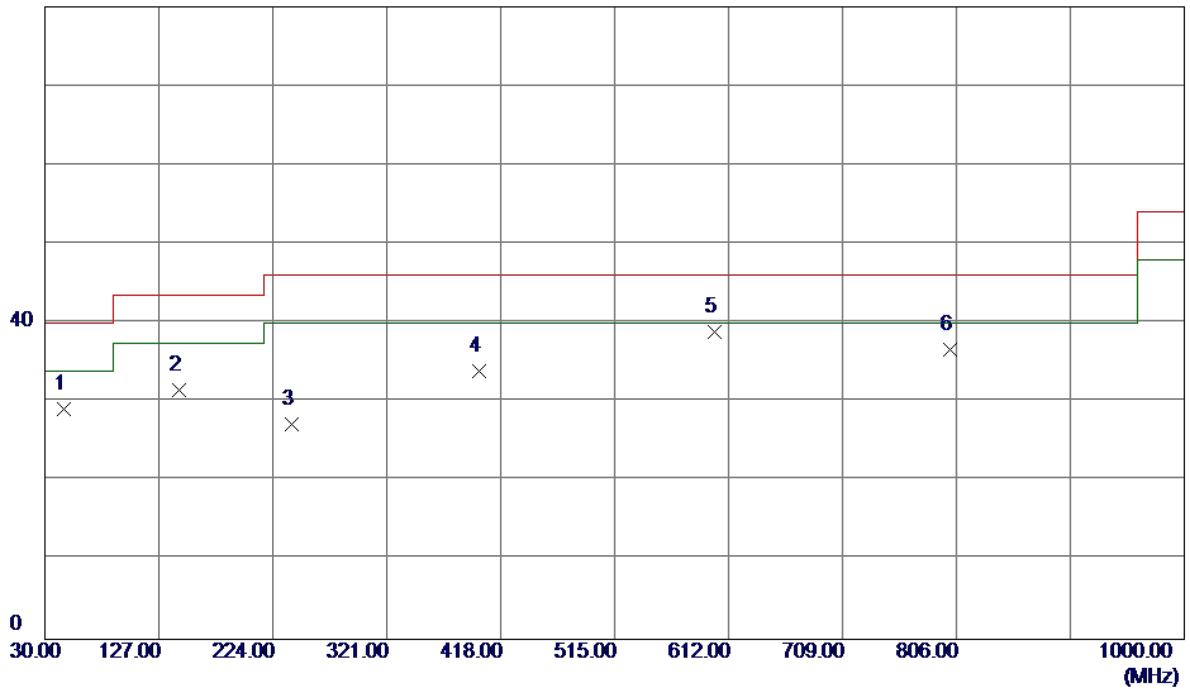


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	240.4900	52.93	-22.33	30.60	46.00	-15.40	Peak	
2	399.5700	54.01	-14.32	39.69	46.00	-6.31	Peak	
3	532.4600	39.72	-10.73	28.99	46.00	-17.01	Peak	
4	600.3600	41.63	-13.36	28.27	46.00	-17.73	Peak	
5	800.1800	44.85	-7.54	37.31	46.00	-8.69	Peak	
6	881.6600	37.94	-7.90	30.04	46.00	-15.96	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

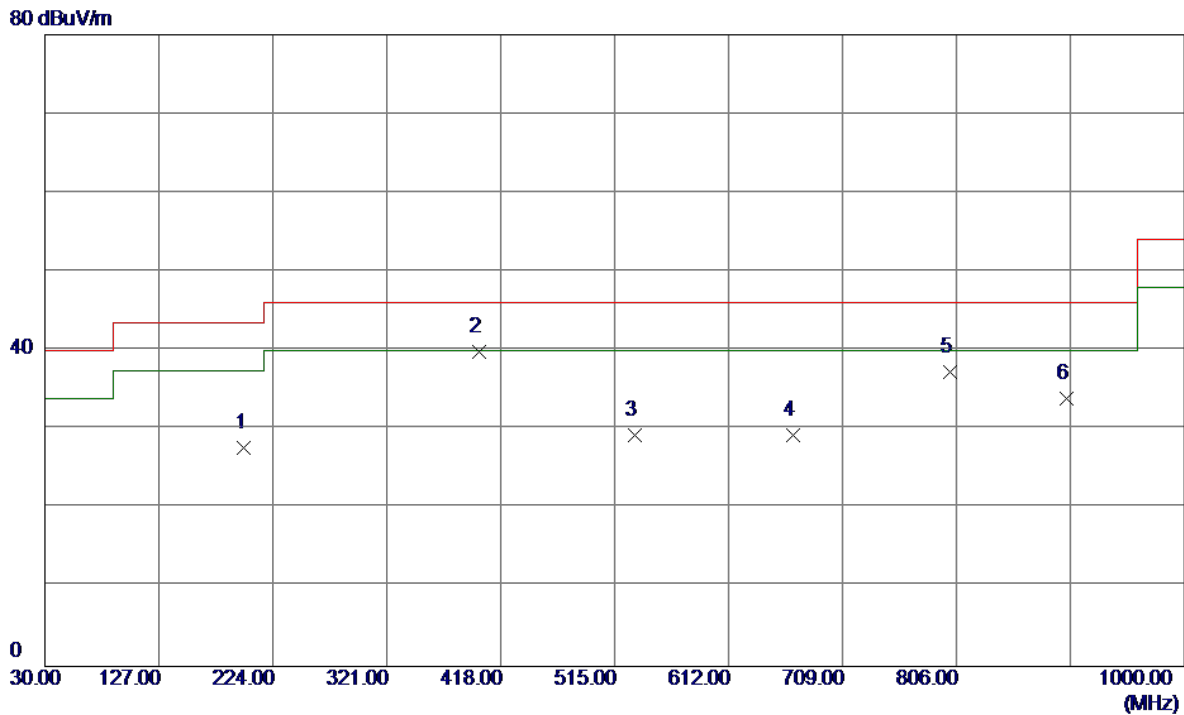
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	46.4900	48.94	-19.88	29.06	40.00	-10.94	Peak	
2	144.4600	51.23	-19.68	31.55	43.50	-11.95	Peak	
3	240.4900	43.74	-16.58	27.16	46.00	-18.84	Peak	
4	399.5700	47.79	-13.84	33.95	46.00	-12.05	Peak	
5	600.3600	52.67	-13.83	38.84	46.00	-7.16	Peak	
6	800.1800	43.50	-6.87	36.63	46.00	-9.37	Peak	

Test Mode: TX B MODE CHANNEL 06

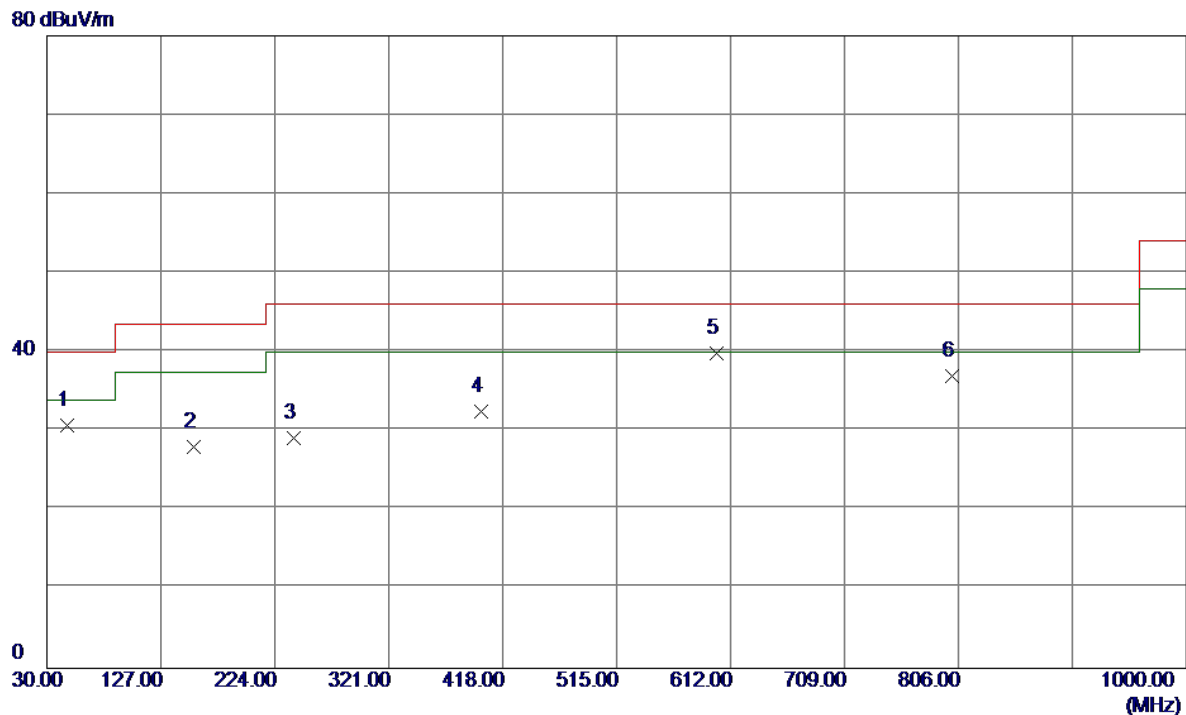
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	199.7500	50.87	-23.14	27.73	43.50	-15.77	Peak	
2	399.5700	54.11	-14.32	39.79	46.00	-6.21	Peak	
3	532.4600	40.06	-10.73	29.33	46.00	-16.67	Peak	
4	667.2900	39.52	-10.20	29.32	46.00	-16.68	Peak	
5	800.1800	44.82	-7.54	37.28	46.00	-8.72	Peak	
6	900.0900	39.09	-5.16	33.93	46.00	-12.07	Peak	

Test Mode:	TX B MODE CHANNEL 11
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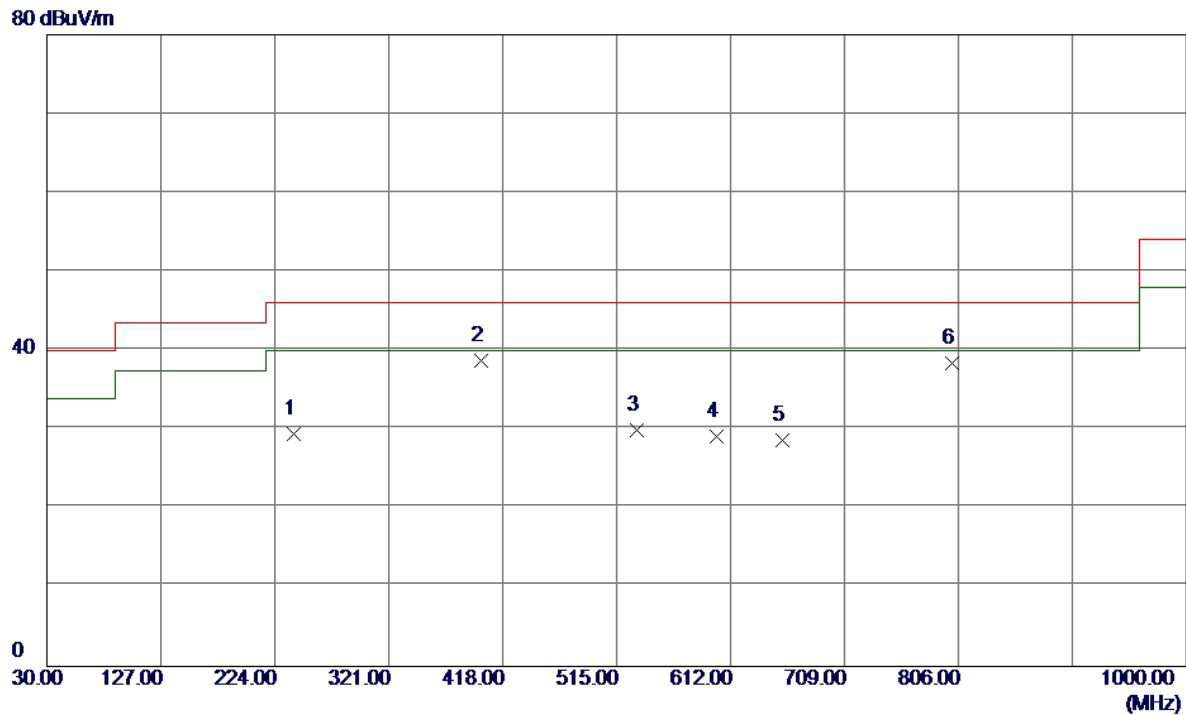
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	47.4600	50.85	-20.18	30.67	40.00	-9.33	Peak	
2	155.1300	46.14	-18.07	28.07	43.50	-15.43	Peak	
3	240.4900	45.65	-16.58	29.07	46.00	-16.93	Peak	
4	399.5700	46.39	-13.84	32.55	46.00	-13.45	Peak	
5	600.3600	53.63	-13.83	39.80	46.00	-6.20	Peak	
6	800.1800	43.83	-6.87	36.96	46.00	-9.04	Peak	

Test Mode:	TX B MODE CHANNEL 11
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Horizontal

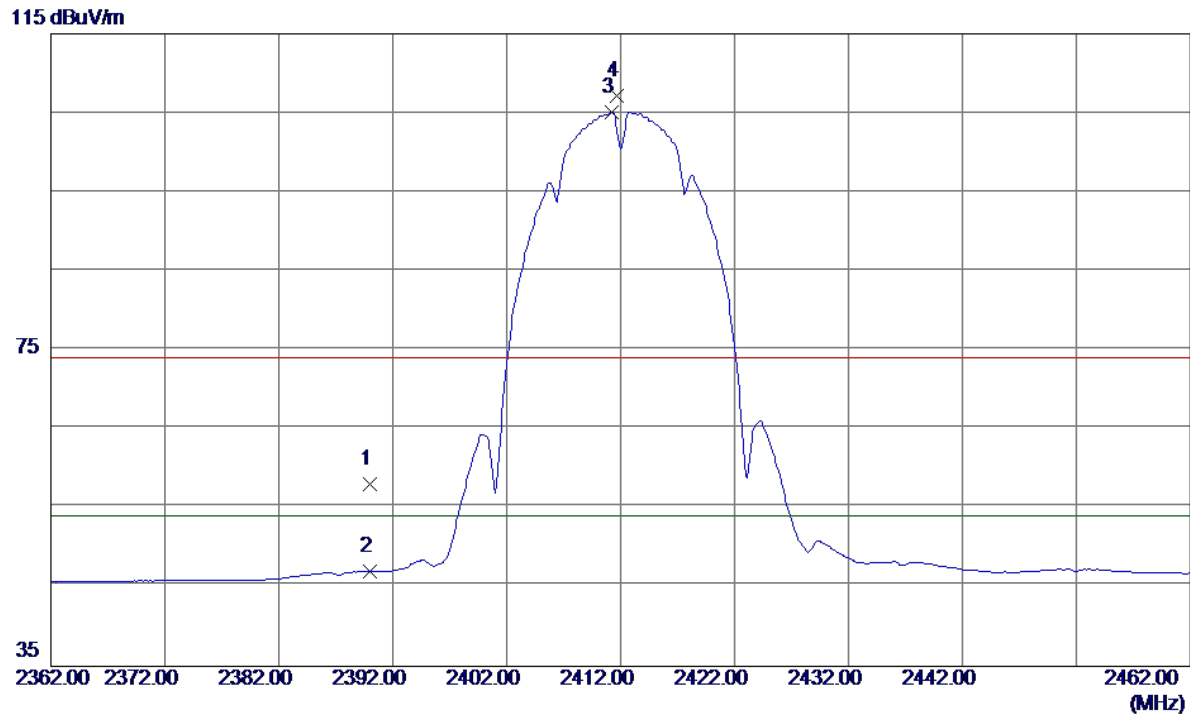


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	240.4900	51.81	-22.33	29.48	46.00	-16.52	Peak	
2	399.5700	53.05	-14.32	38.73	46.00	-7.27	Peak	
3	532.4600	40.59	-10.73	29.86	46.00	-16.14	Peak	
4	600.3600	42.54	-13.36	29.18	46.00	-16.82	Peak	
5	656.6200	39.20	-10.51	28.69	46.00	-17.31	Peak	
6	800.1800	45.88	-7.54	38.34	46.00	-7.66	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

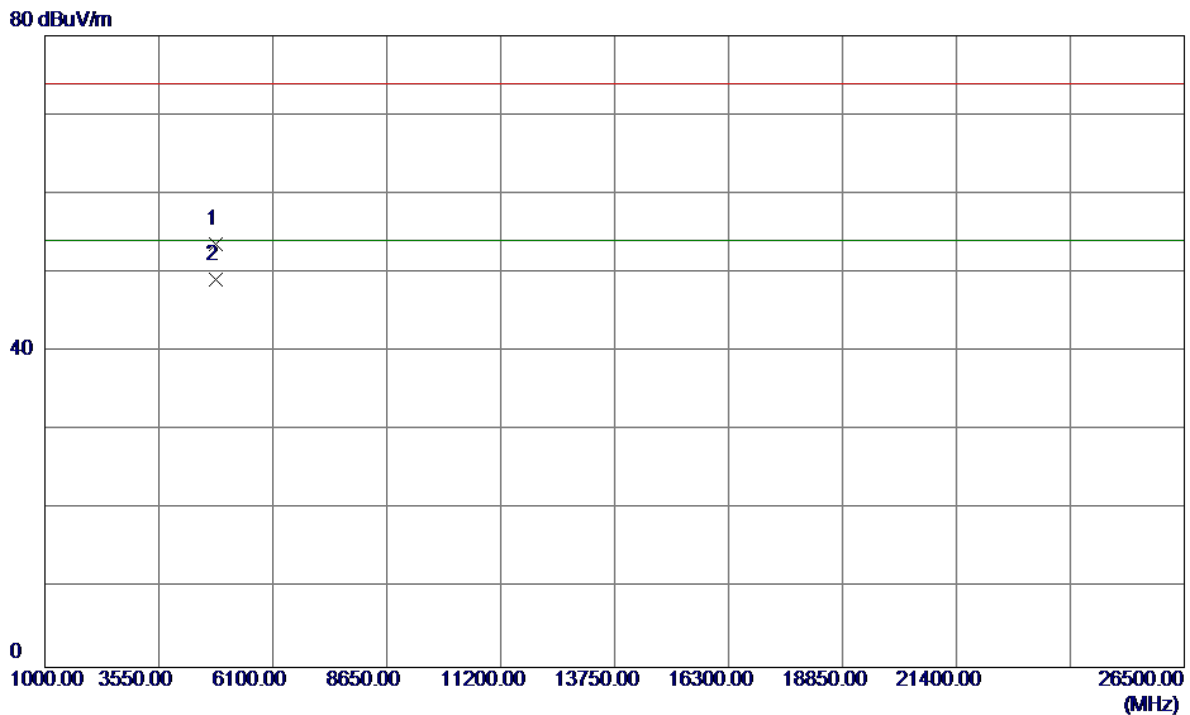
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	24.60	33.43	58.03	74.00	-15.97	Peak	
2	2390.0000	13.52	33.43	46.95	54.00	-7.05	AVG	
3	2411.2000	71.67	33.47	105.14	54.00	51.14	AVG	NO LIMIT
4	2411.7000	73.77	33.47	107.24	74.00	33.24	Peak	NO LIMIT

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

Vertical

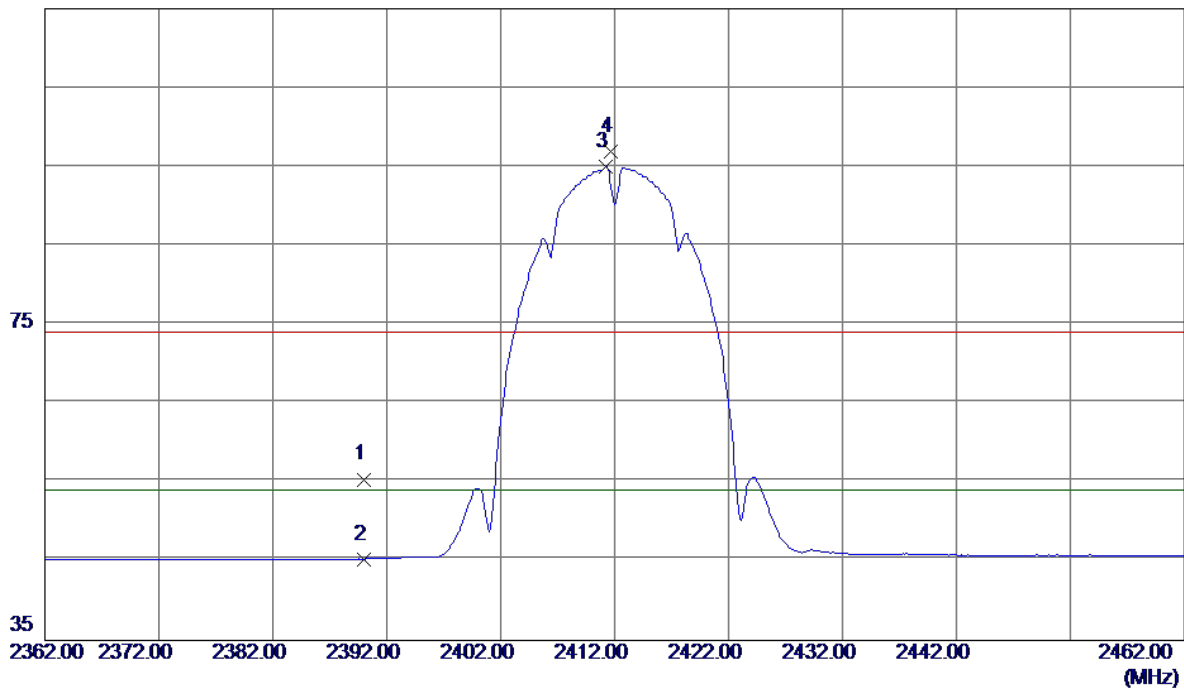


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0000	46.75	6.82	53.57	74.00	-20.43	Peak	
2	4824.0000	42.24	6.82	49.06	54.00	-4.94	AVG	

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

Horizontal

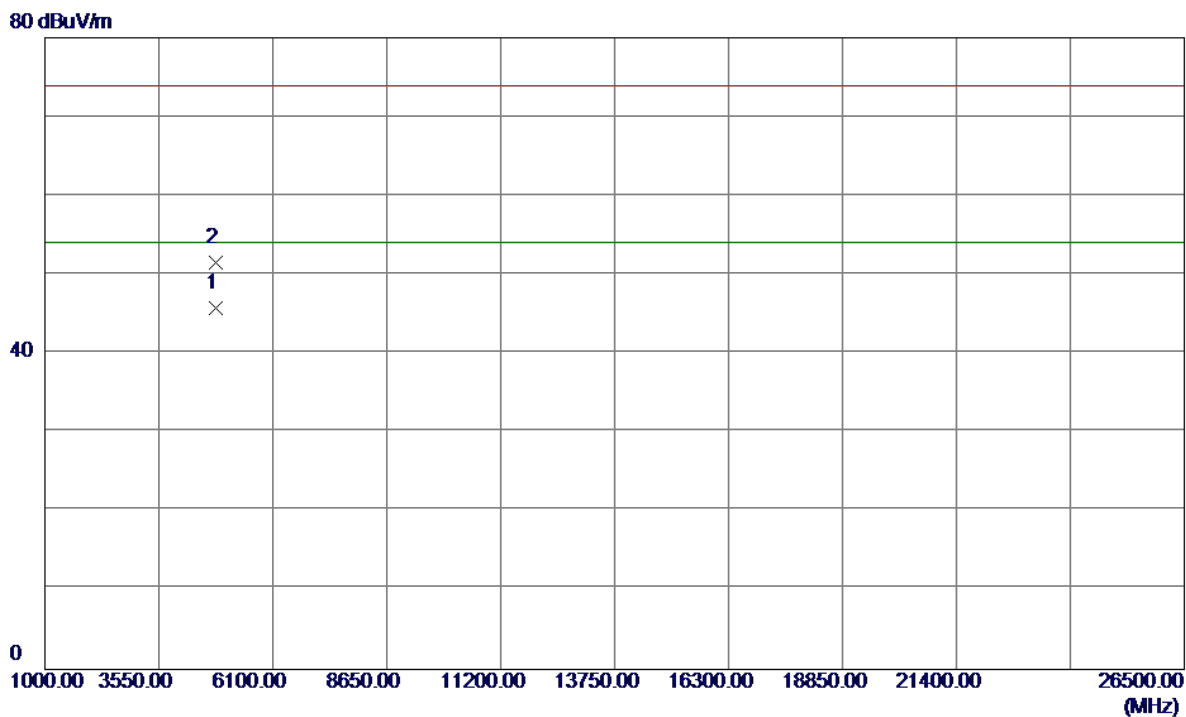
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	21.97	33.43	55.40	74.00	-18.60	Peak	
2	2390.0000	11.87	33.43	45.30	54.00	-8.70	AVG	
3	2411.2000	61.48	33.47	94.95	54.00	40.95	AVG	NO LIMIT
4	2411.7000	63.47	33.47	96.94	74.00	22.94	Peak	NO LIMIT

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

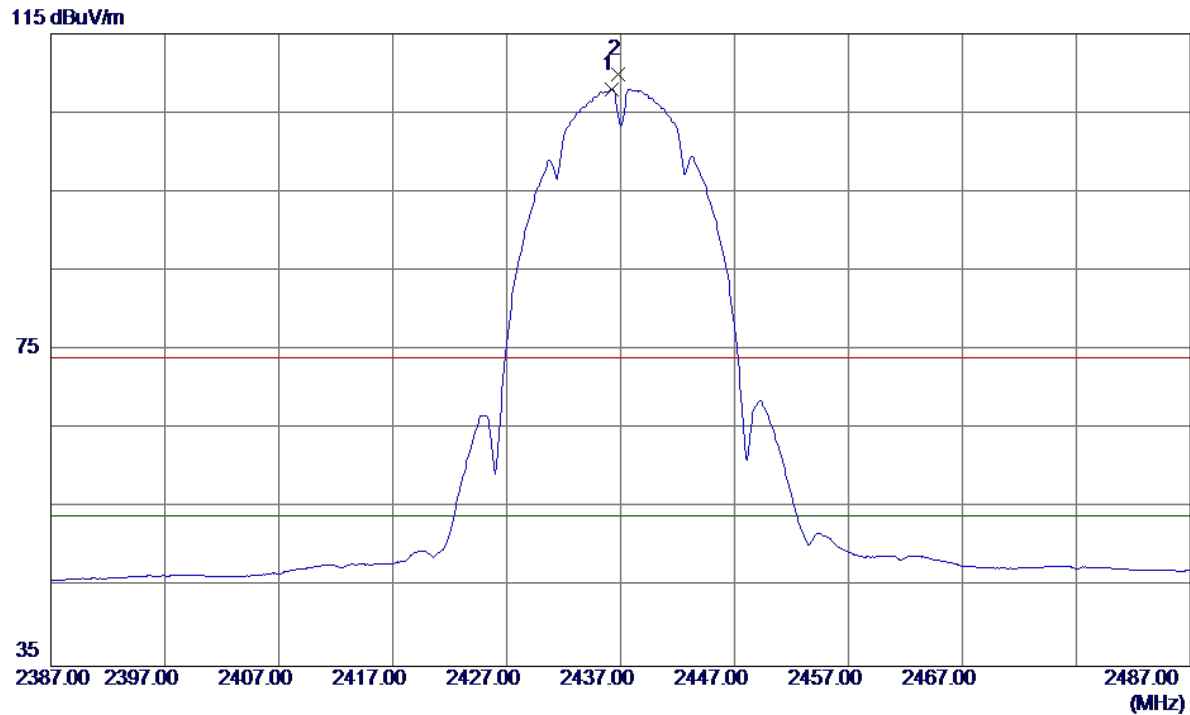
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0000	39.01	6.82	45.83	54.00	-8.17	AVG	
2	4824.0500	44.71	6.82	51.53	74.00	-22.47	Peak	

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

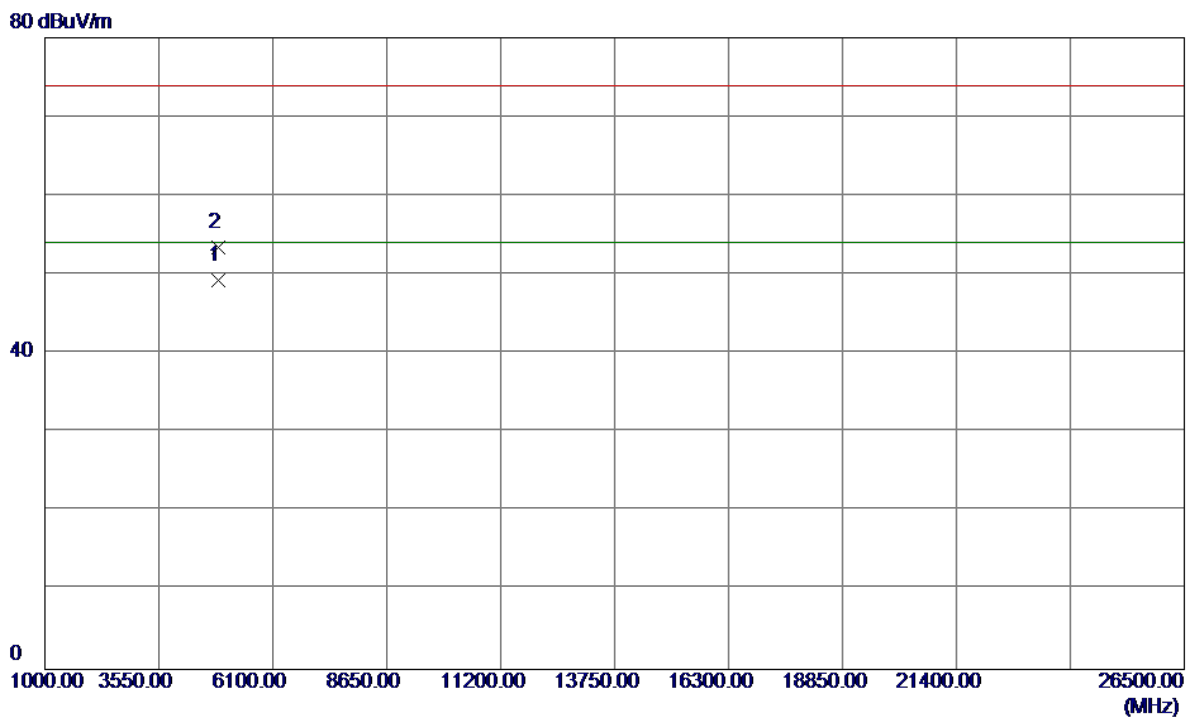
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2436.2000	74.51	33.51	108.02	54.00	54.02	AVG	NO LIMIT
2	2436.8000	76.35	33.51	109.86	74.00	35.86	Peak	NO LIMIT

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

Vertical

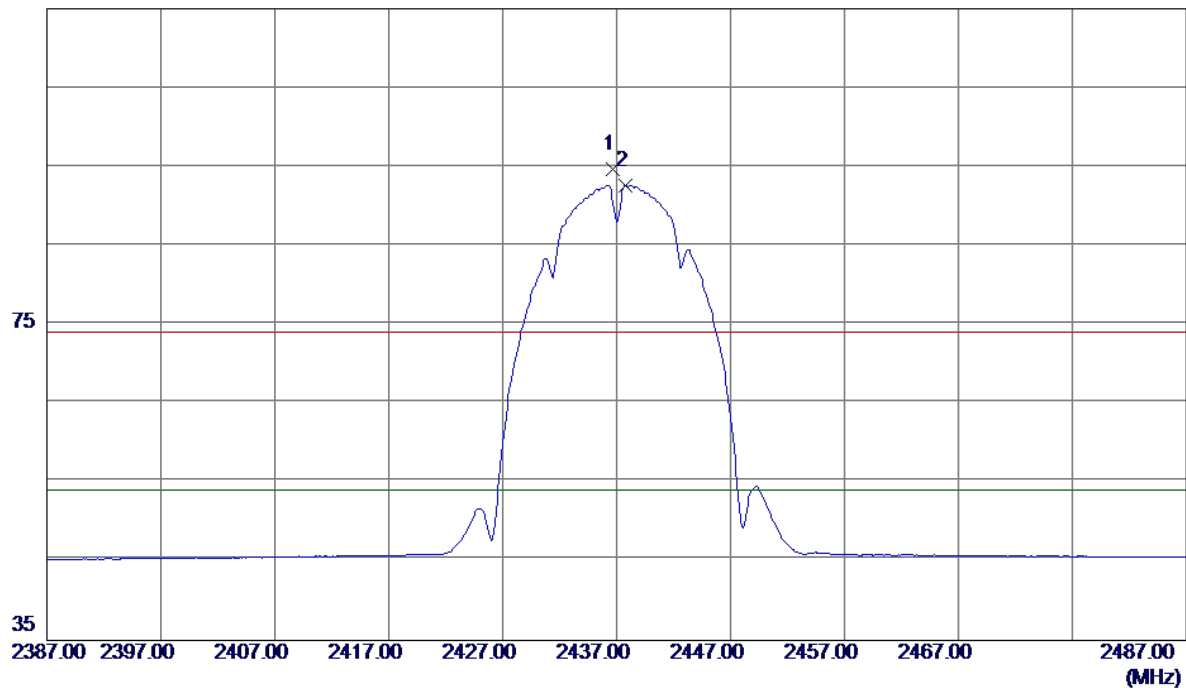


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0000	42.35	6.97	49.32	54.00	-4.68	AVG	
2	4874.0500	46.48	6.97	53.45	74.00	-20.55	Peak	

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

Horizontal

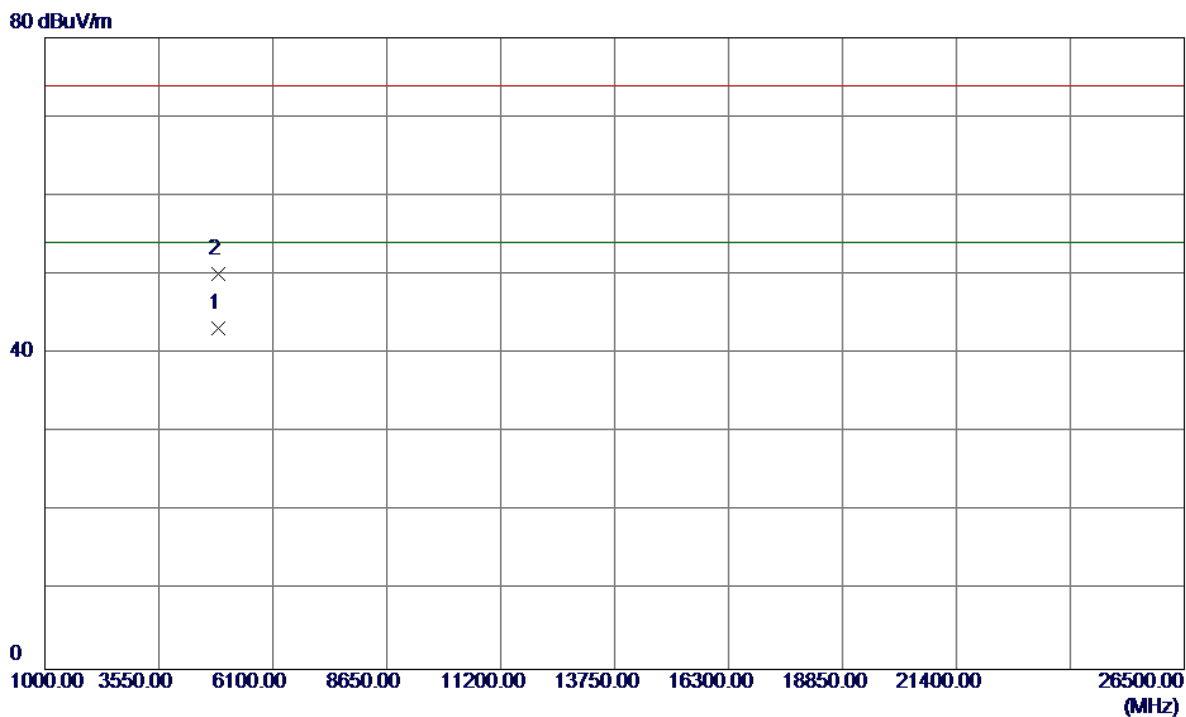
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2436.7000	61.18	33.51	94.69	74.00	20.69	Peak	NO LIMIT
2	2437.8000	59.14	33.51	92.65	54.00	38.65	AVG	NO LIMIT

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

Horizontal

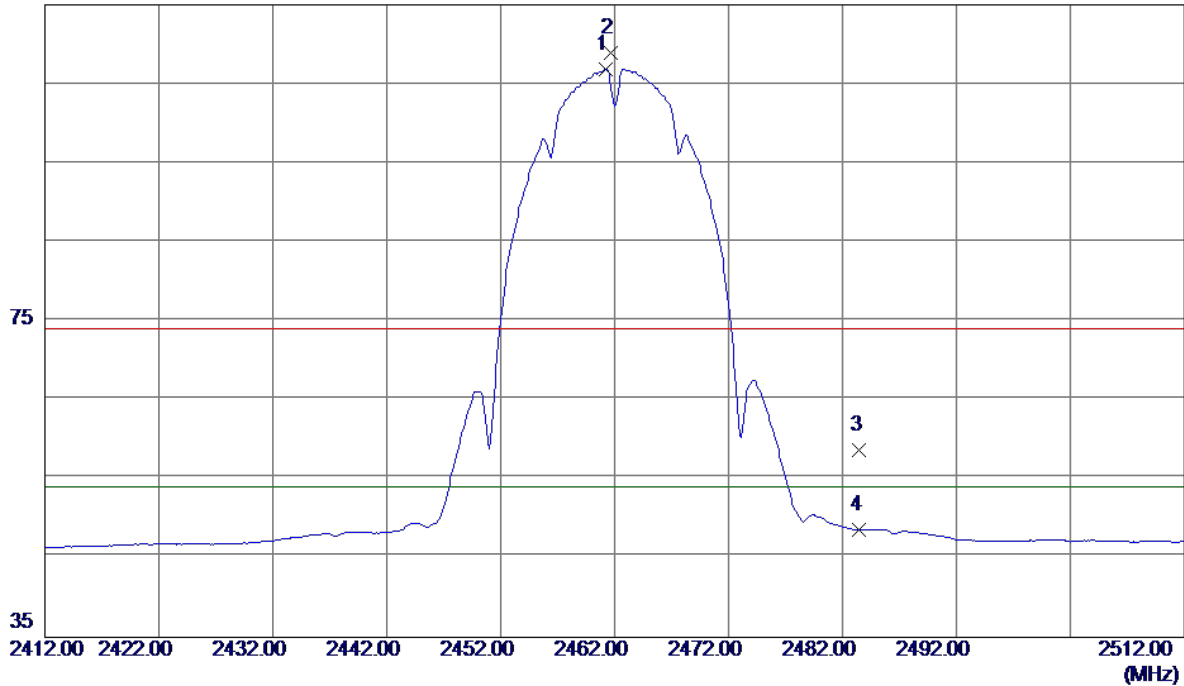


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.0000	36.25	6.97	43.22	54.00	-10.78	AVG	
2	4874.0500	43.06	6.97	50.03	74.00	-23.97	Peak	

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

Vertical

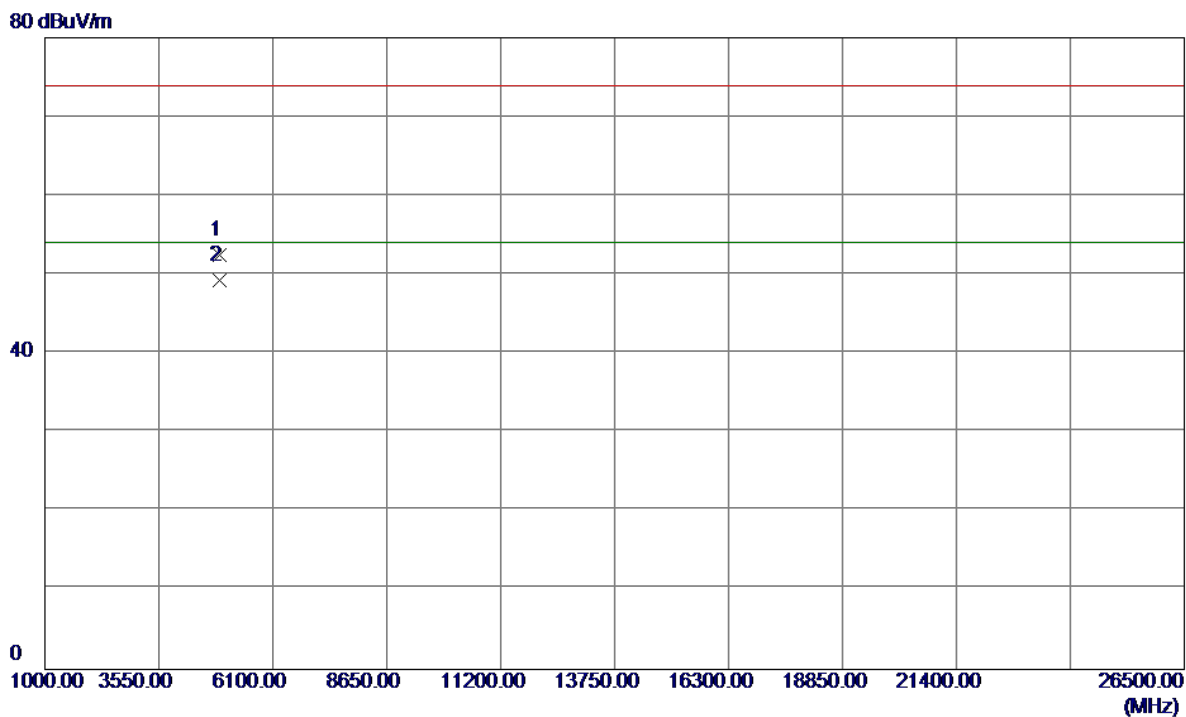
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.2000	73.32	33.55	106.87	54.00	52.87	AVG	NO LIMIT
2	2461.7000	75.40	33.55	108.95	74.00	34.95	Peak	NO LIMIT
3	2483.5000	25.03	33.59	58.62	74.00	-15.38	Peak	
4	2483.5000	15.01	33.59	48.60	54.00	-5.40	AVG	

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

Vertical

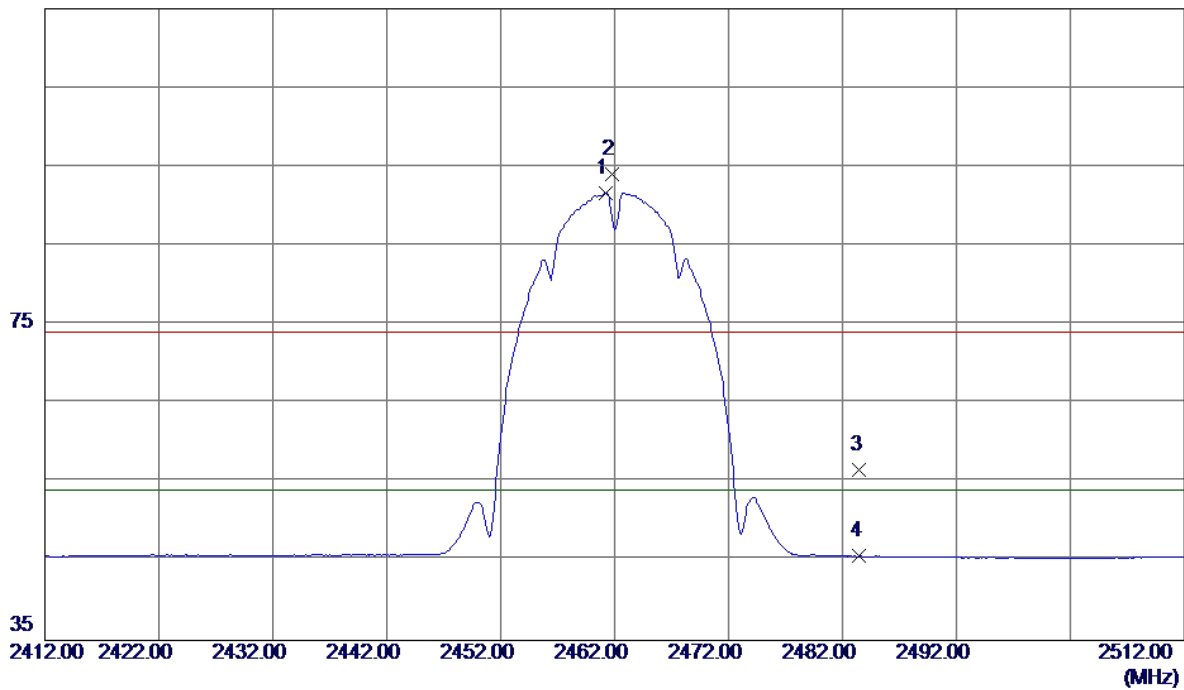


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.8000	45.35	7.12	52.47	74.00	-21.53	Peak	
2	4924.0000	42.13	7.12	49.25	54.00	-4.75	AVG	

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

Horizontal

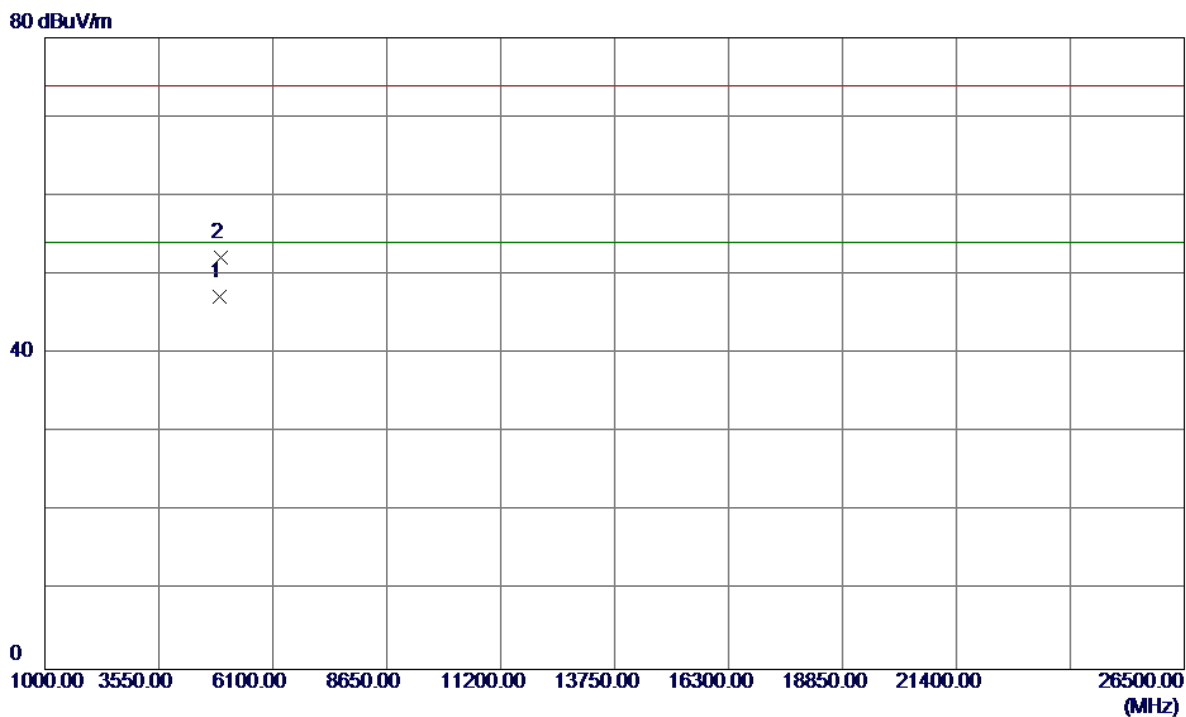
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2461.2000	58.13	33.55	91.68	54.00	37.68	AVG	NO LIMIT
2	2461.8000	60.52	33.55	94.07	74.00	20.07	Peak	NO LIMIT
3	2483.5000	22.99	33.59	56.58	74.00	-17.42	Peak	
4	2483.5000	12.08	33.59	45.67	54.00	-8.33	AVG	

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

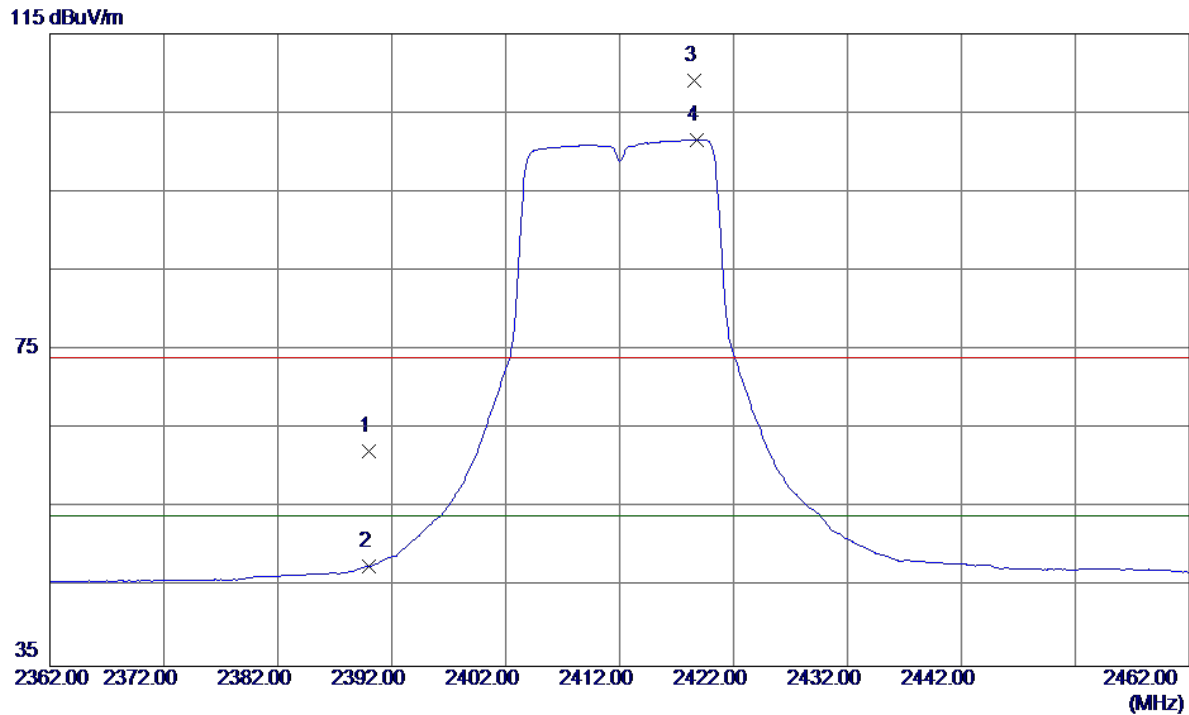
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	40.04	7.12	47.16	54.00	-6.84	AVG	
2	4924.3000	45.08	7.12	52.20	74.00	-21.80	Peak	

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

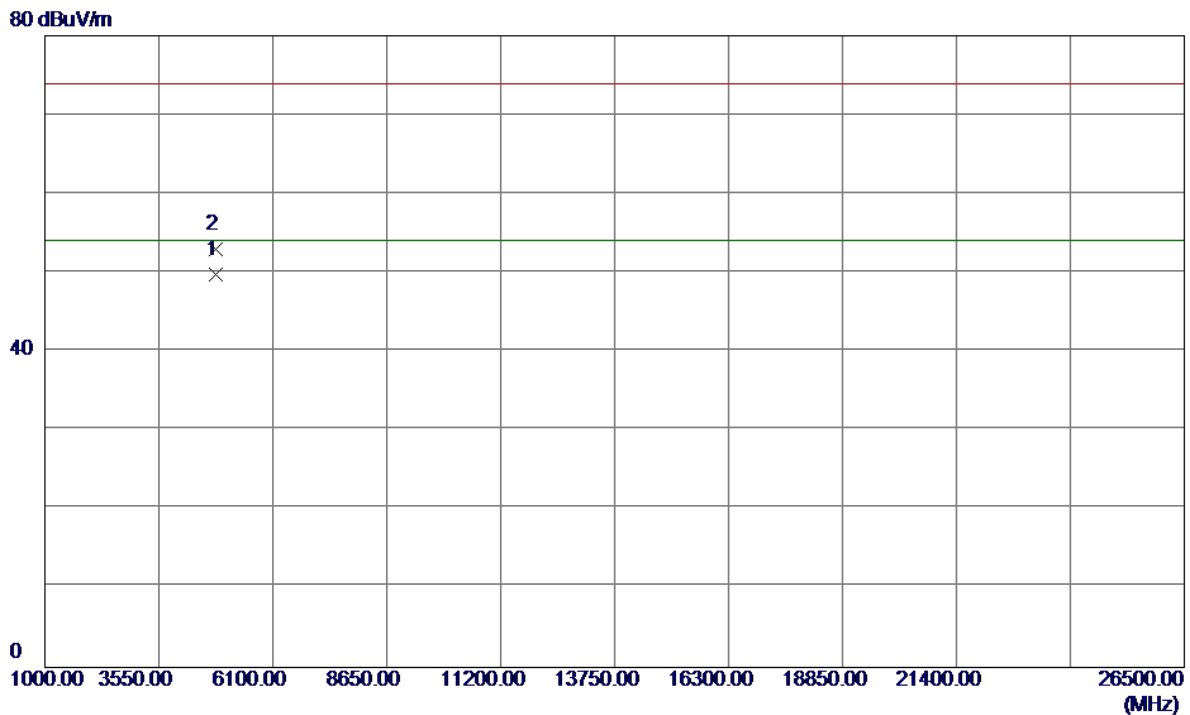
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	28.73	33.43	62.16	74.00	-11.84	Peak	
2	2390.0000	14.23	33.43	47.66	54.00	-6.34	AVG	
3	2418.6000	75.55	33.48	109.03	74.00	35.03	Peak	NO LIMIT
4	2418.8000	68.13	33.48	101.61	54.00	47.61	AVG	NO LIMIT

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

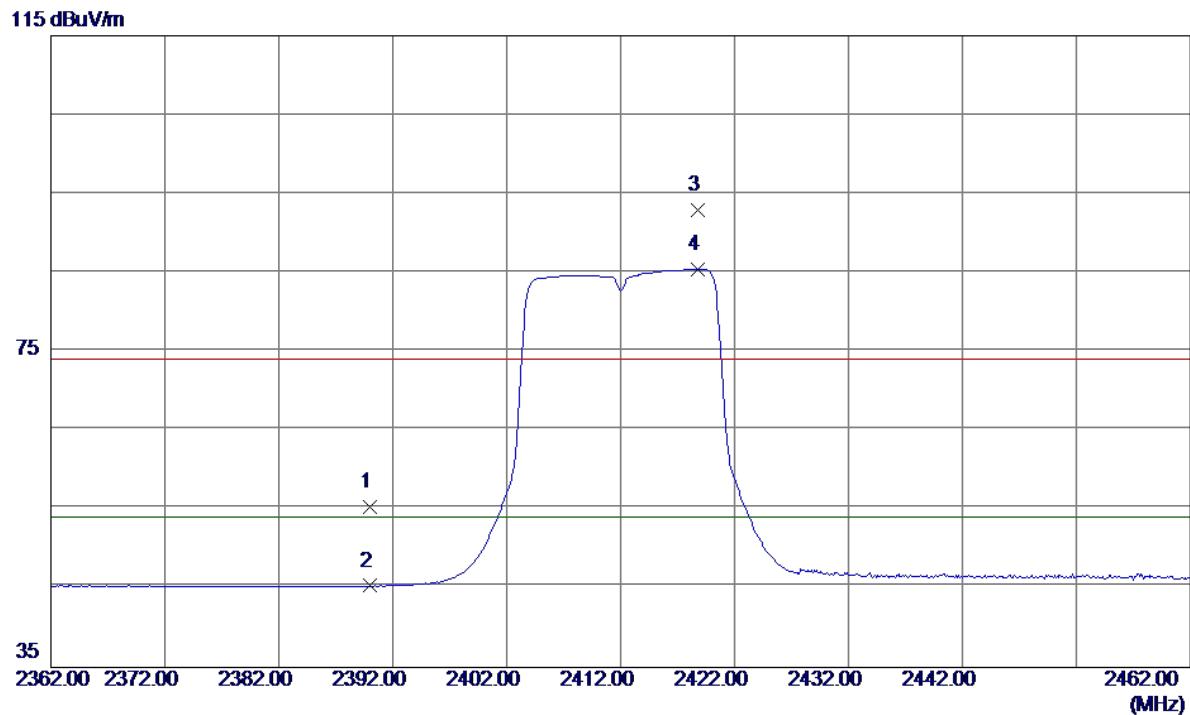
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0000	42.88	6.82	49.70	54.00	-4.30	AVG	
2	4824.1000	46.18	6.82	53.00	74.00	-21.00	Peak	

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

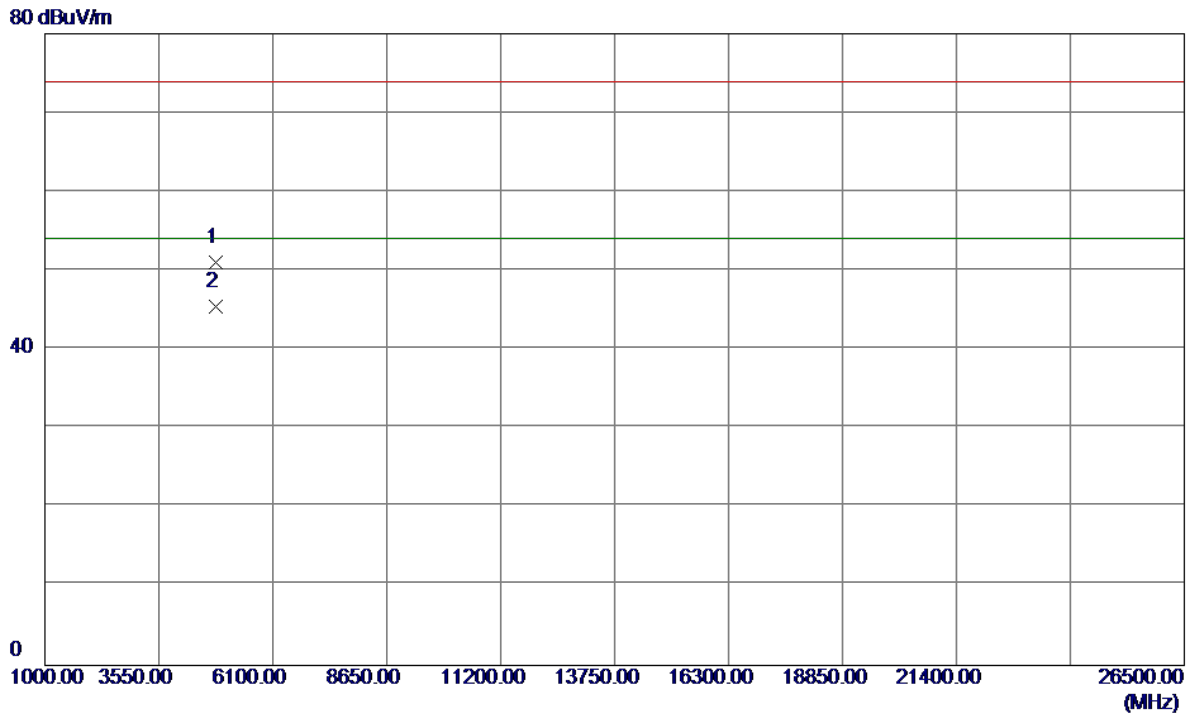
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	21.96	33.43	55.39	74.00	-18.61	Peak	
2	2390.0000	11.89	33.43	45.32	54.00	-8.68	AVG	
3	2418.8000	59.45	33.48	92.93	74.00	18.93	Peak	NO LIMIT
4	2418.8000	51.92	33.48	85.40	54.00	31.40	AVG	NO LIMIT

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

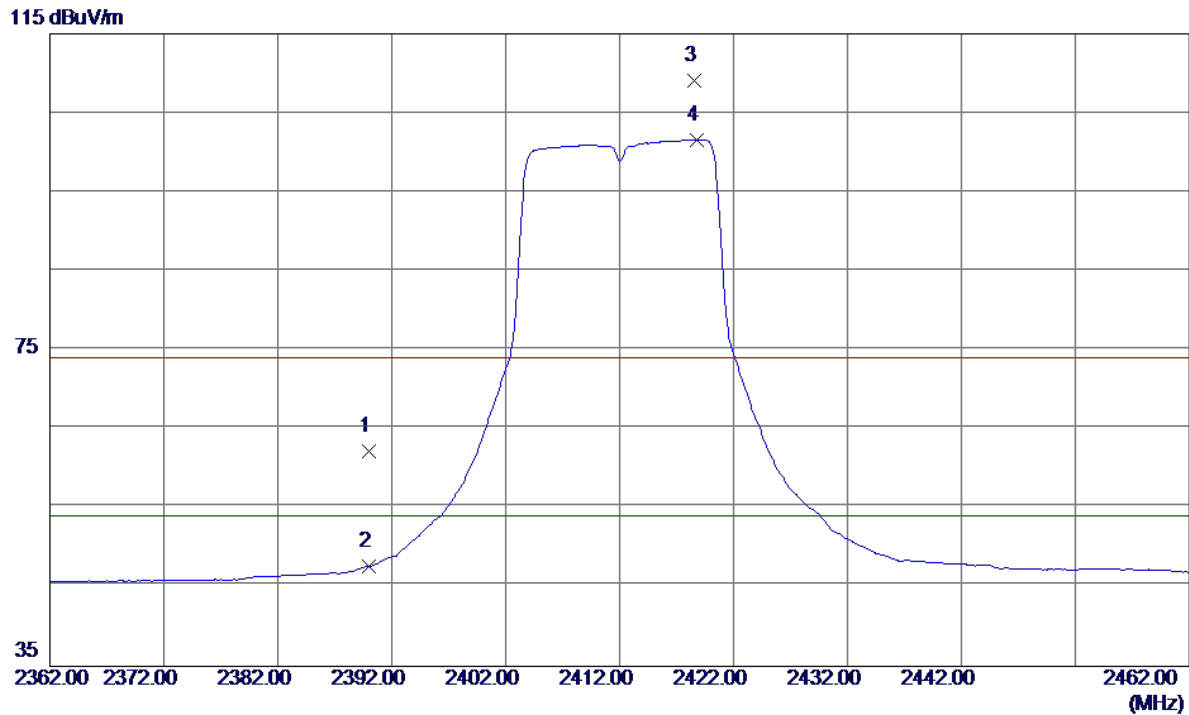
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.9000	44.22	6.82	51.04	74.00	-22.96	Peak	
2	4824.0000	38.61	6.82	45.43	54.00	-8.57	AVG	

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

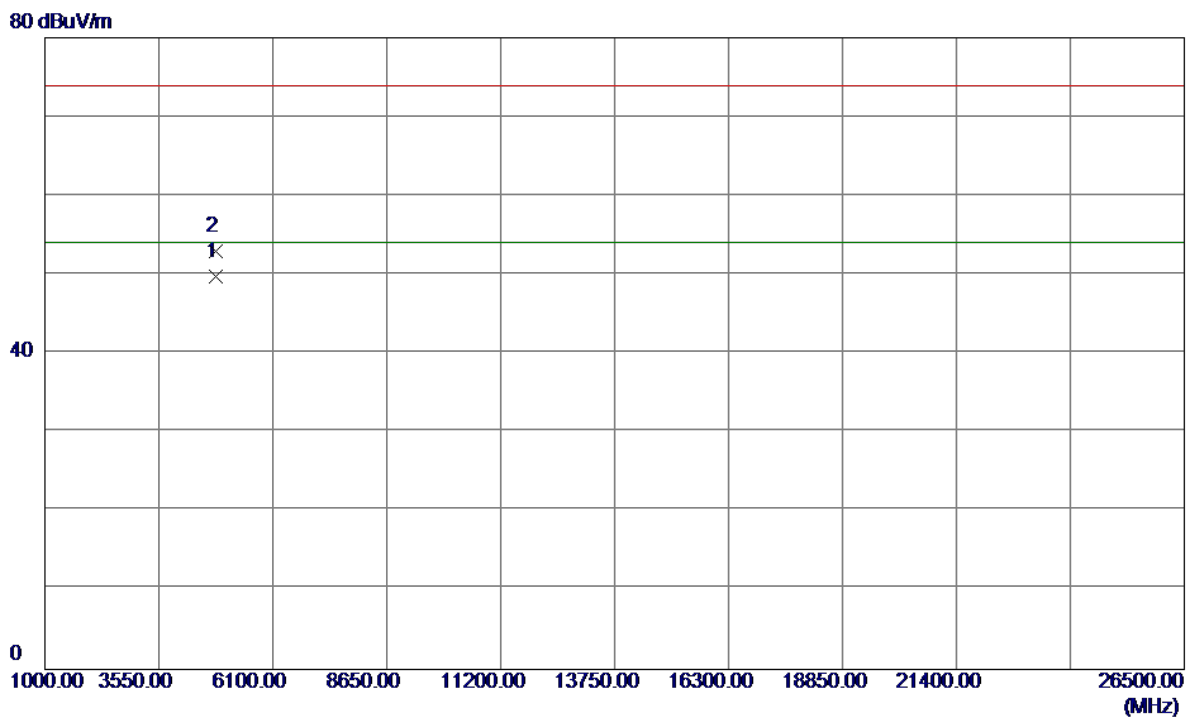
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	28.73	33.43	62.16	74.00	-11.84	Peak	
2	2390.0000	14.23	33.43	47.66	54.00	-6.34	AVG	
3	2418.6000	75.55	33.48	109.03	74.00	35.03	Peak	NO LIMIT
4	2418.8000	68.13	33.48	101.61	54.00	47.61	AVG	NO LIMIT

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

Vertical

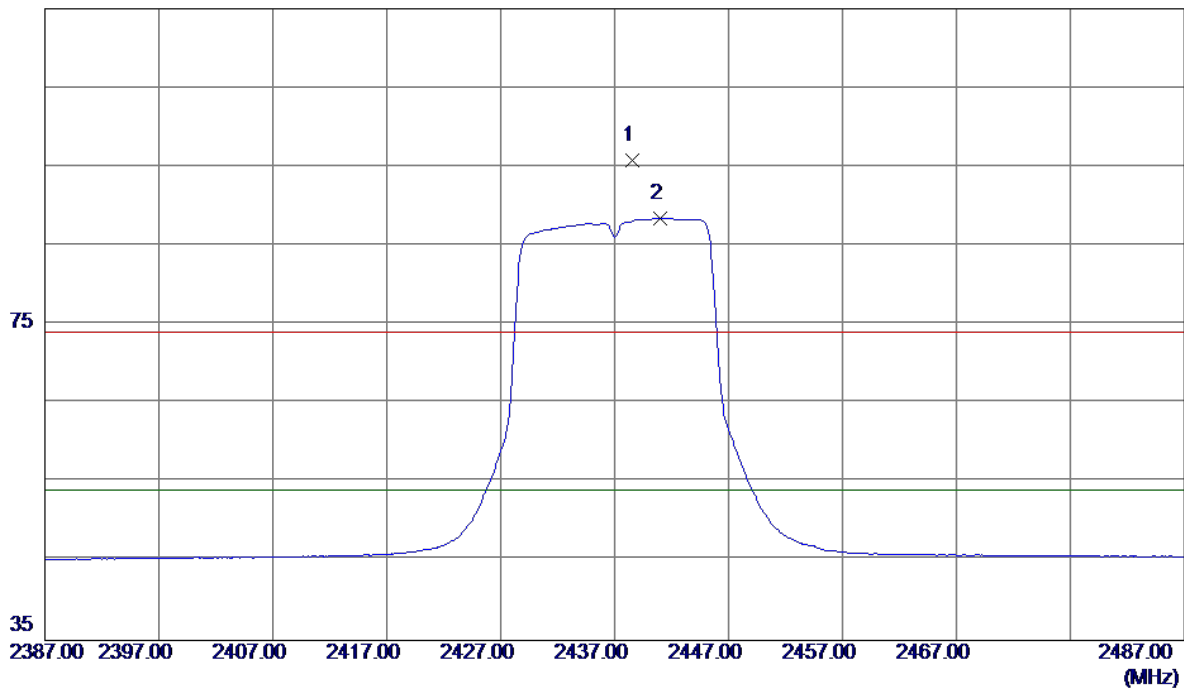


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0000	42.88	6.82	49.70	54.00	-4.30	AVG	
2	4824.1000	46.18	6.82	53.00	74.00	-21.00	Peak	

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

Horizontal

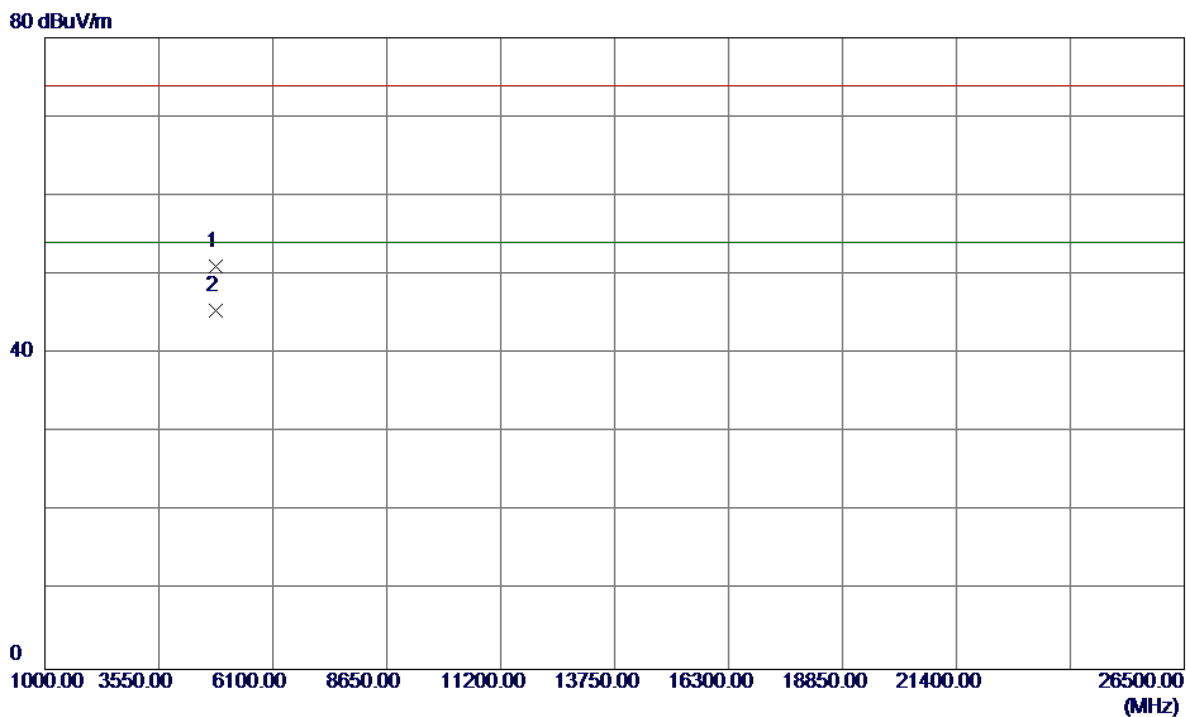
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2438.6000	62.34	33.51	95.85	74.00	21.85	Peak	NO LIMIT
2	2441.0000	54.90	33.52	88.42	54.00	34.42	AVG	NO LIMIT

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

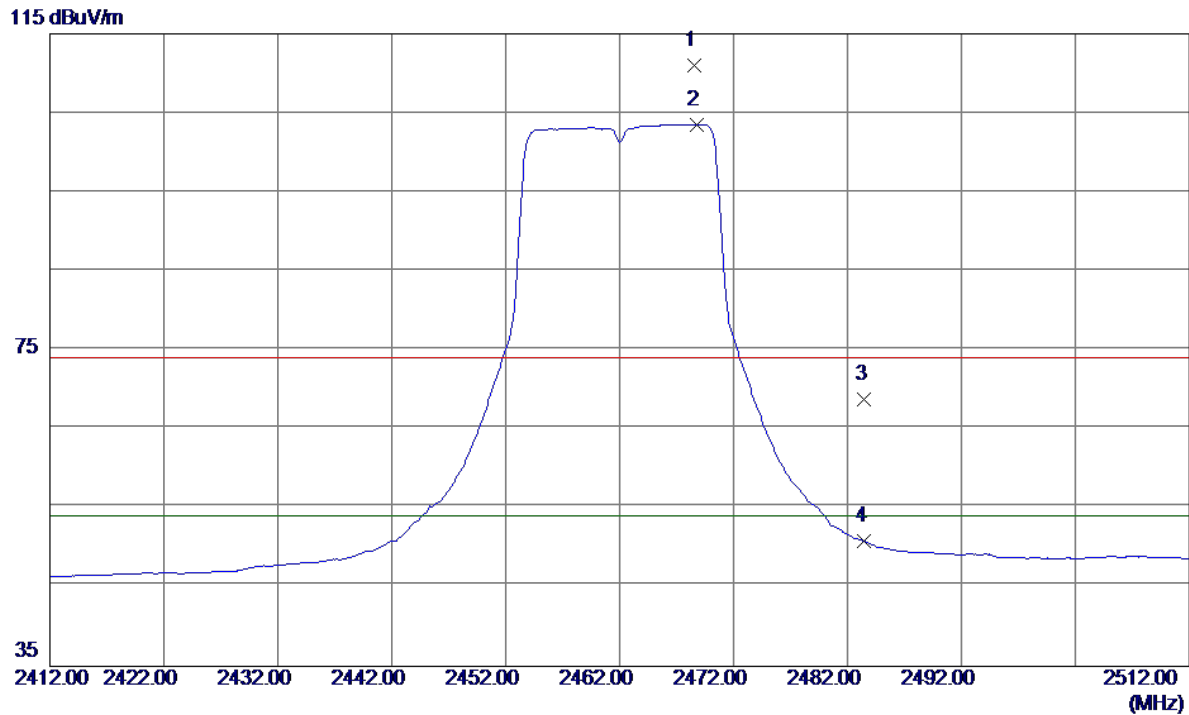
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.9000	44.22	6.82	51.04	74.00	-22.96	Peak	
2	4824.0000	38.61	6.82	45.43	54.00	-8.57	AVG	

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

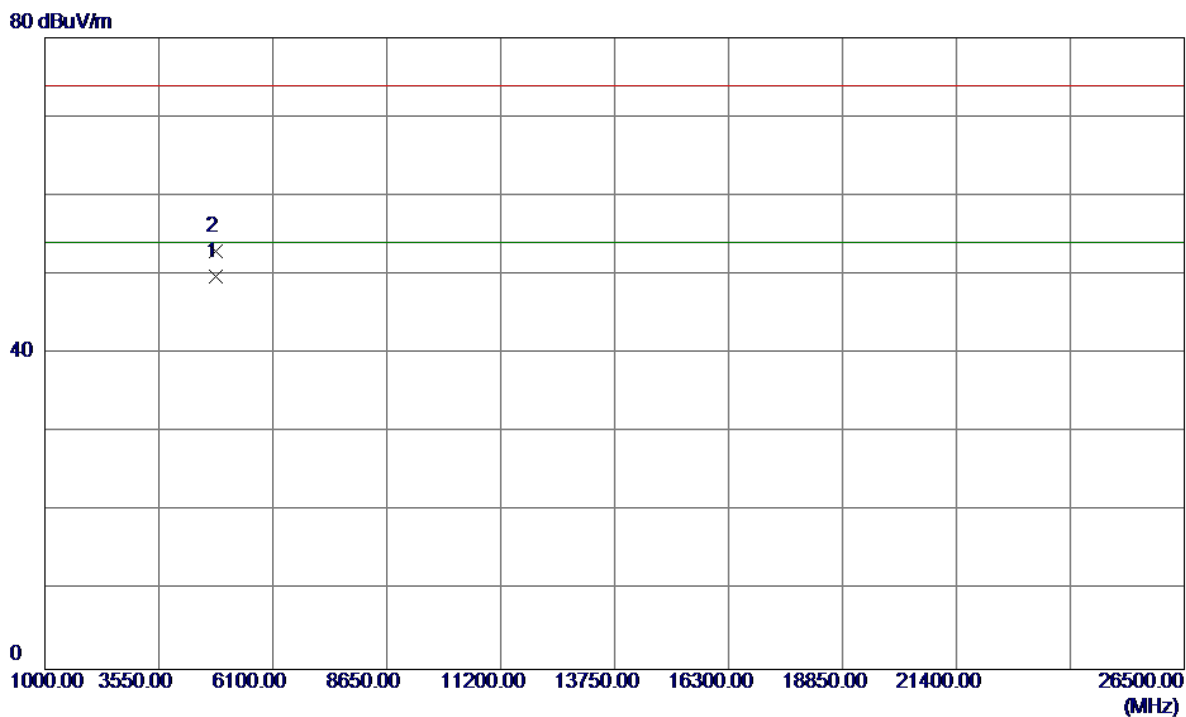
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2468.6000	77.38	33.57	110.95	74.00	36.95	Peak	NO LIMIT
2	2468.8000	69.92	33.57	103.49	54.00	49.49	AVG	NO LIMIT
3	2483.5000	35.21	33.59	68.80	74.00	-5.20	Peak	
4	2483.5000	17.19	33.59	50.78	54.00	-3.22	AVG	

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

Vertical

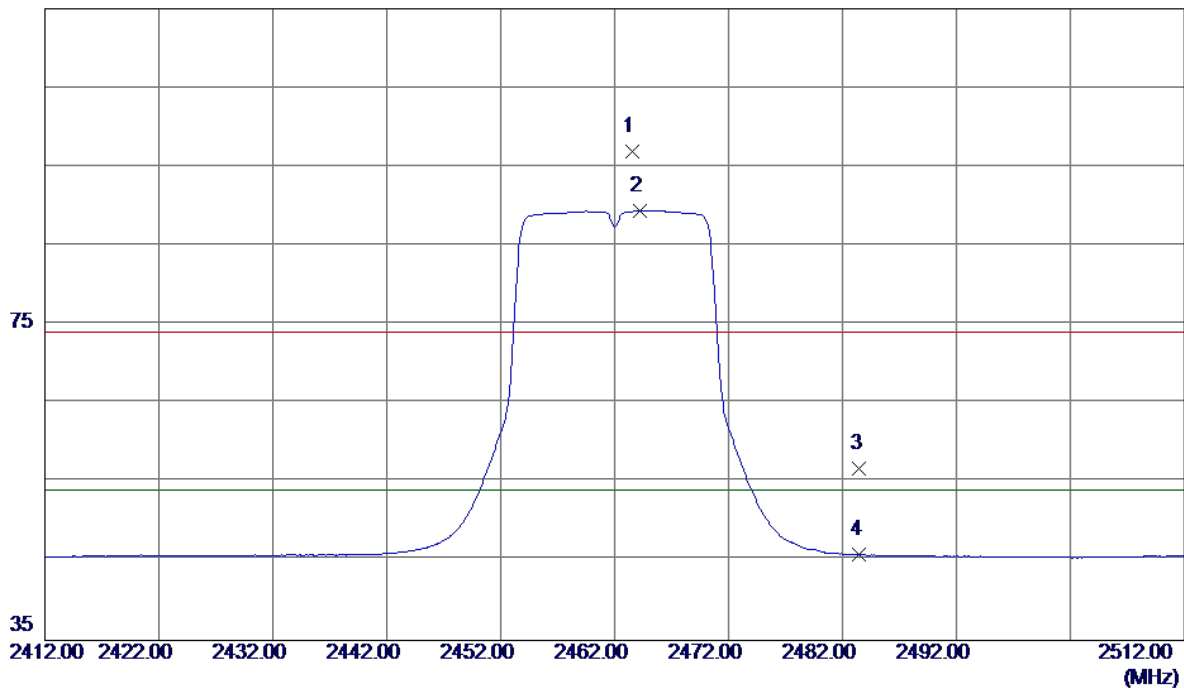


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0000	42.88	6.82	49.70	54.00	-4.30	AVG	
2	4824.1000	46.18	6.82	53.00	74.00	-21.00	Peak	

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

Horizontal

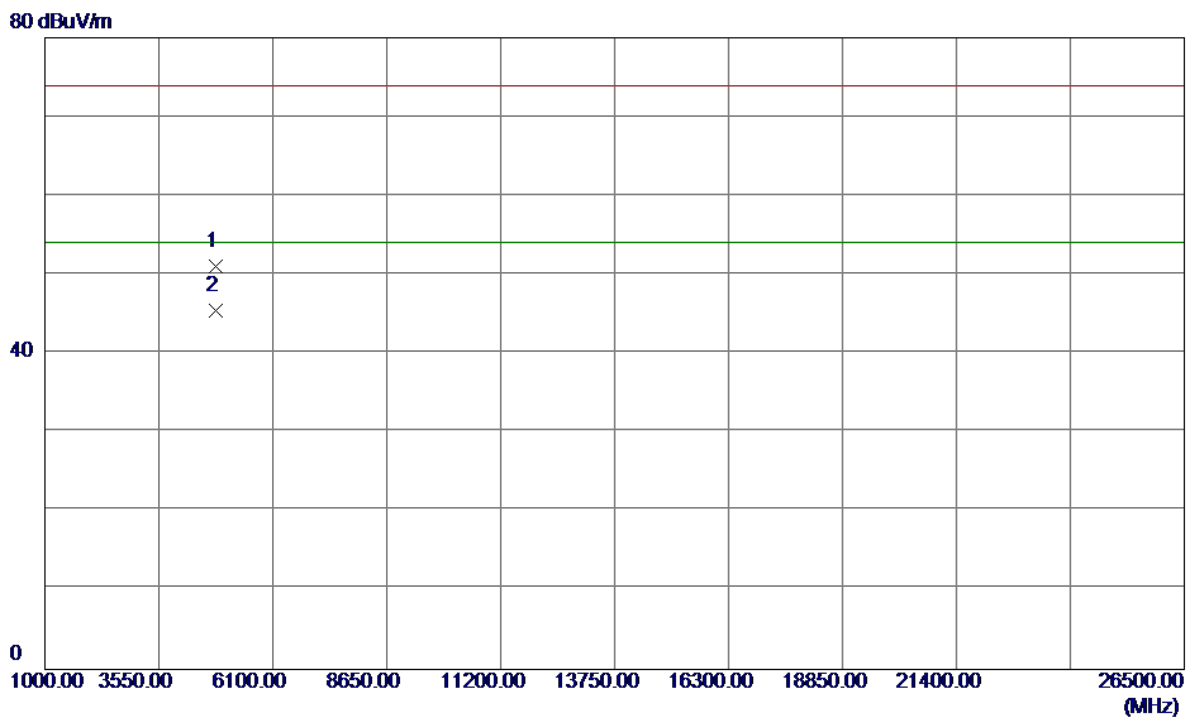
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2463.6000	63.43	33.56	96.99	74.00	22.99	Peak	NO LIMIT
2	2464.2000	55.86	33.56	89.42	54.00	35.42	AVG	NO LIMIT
3	2483.5000	23.24	33.59	56.83	74.00	-17.17	Peak	
4	2483.5000	12.23	33.59	45.82	54.00	-8.18	AVG	

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

Horizontal

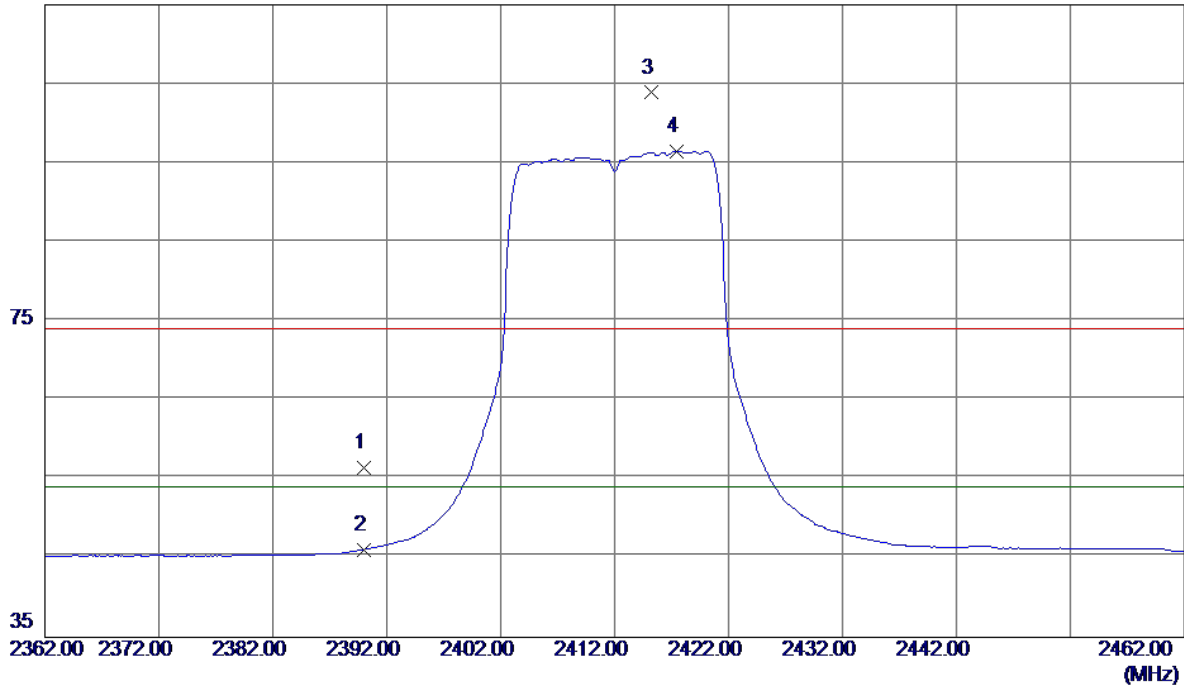


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.9000	44.22	6.82	51.04	74.00	-22.96	Peak	
2	4824.0000	38.61	6.82	45.43	54.00	-8.57	AVG	

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

Vertical

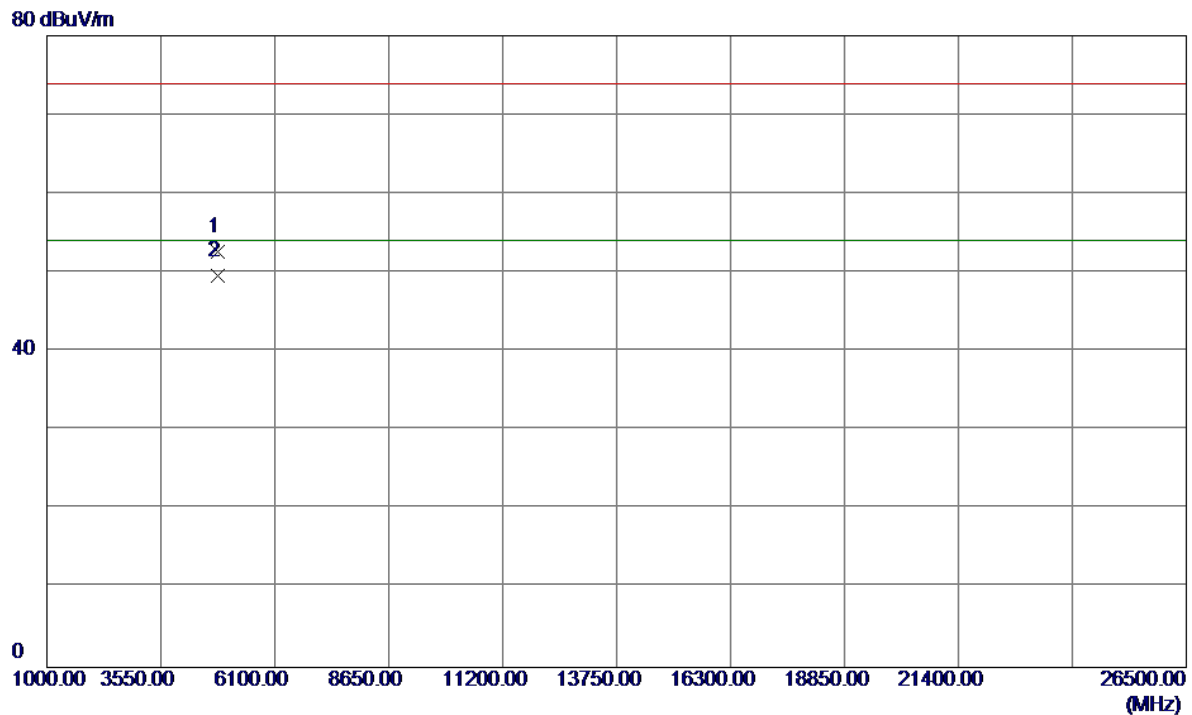
115 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	22.99	33.43	56.42	74.00	-17.58	Peak	
2	2390.0000	12.67	33.43	46.10	54.00	-7.90	AVG	
3	2415.2000	70.41	33.47	103.88	74.00	29.88	Peak	NO LIMIT
4	2417.4000	63.01	33.48	96.49	54.00	42.49	AVG	NO LIMIT

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

Vertical

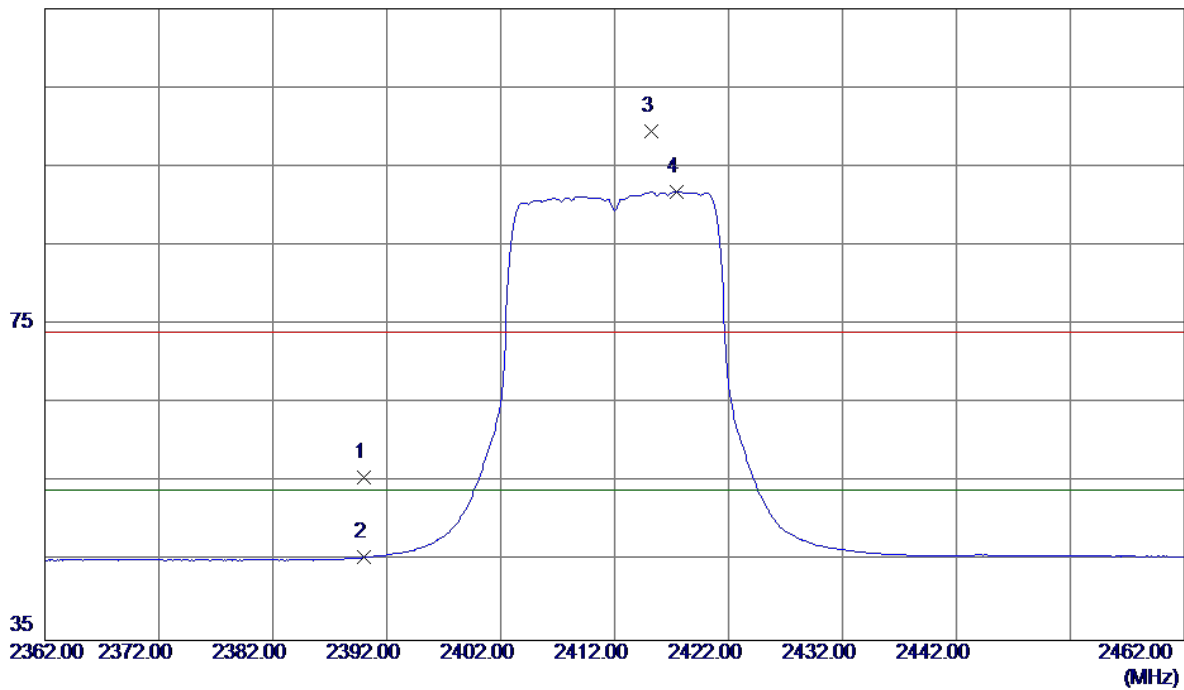


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.8000	45.76	6.82	52.58	74.00	-21.42	Peak	
2	4824.0500	42.82	6.82	49.64	54.00	-4.36	AVG	

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

Horizontal

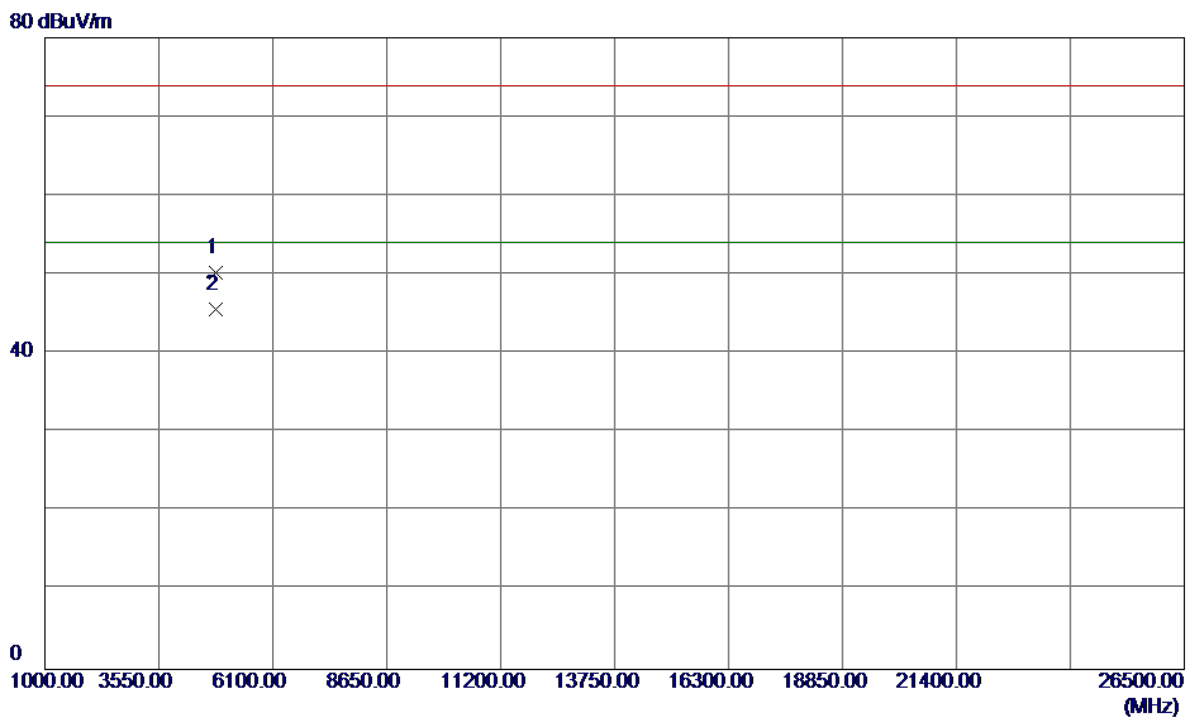
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	22.16	33.43	55.59	74.00	-18.41	Peak	
2	2390.0000	12.11	33.43	45.54	54.00	-8.46	AVG	
3	2415.2000	65.95	33.47	99.42	74.00	25.42	Peak	NO LIMIT
4	2417.4000	58.39	33.48	91.87	54.00	37.87	AVG	NO LIMIT

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

Horizontal

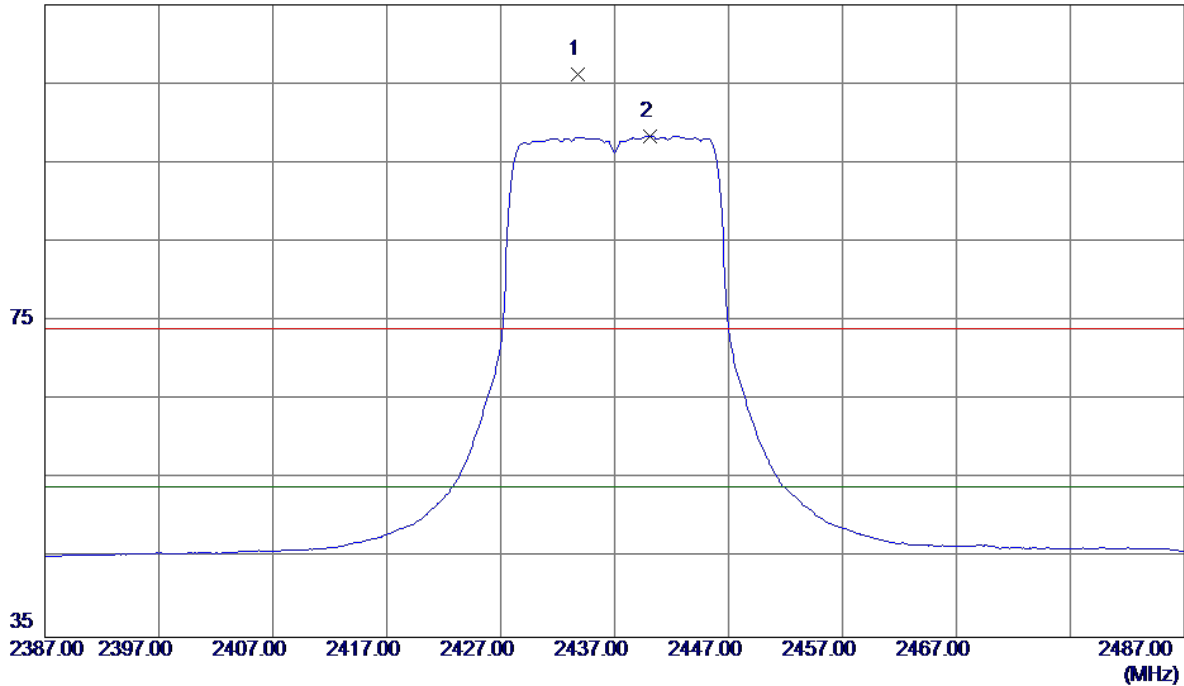


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0000	43.46	6.82	50.28	74.00	-23.72	Peak	
2	4824.0500	38.77	6.82	45.59	54.00	-8.41	AVG	

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

Vertical

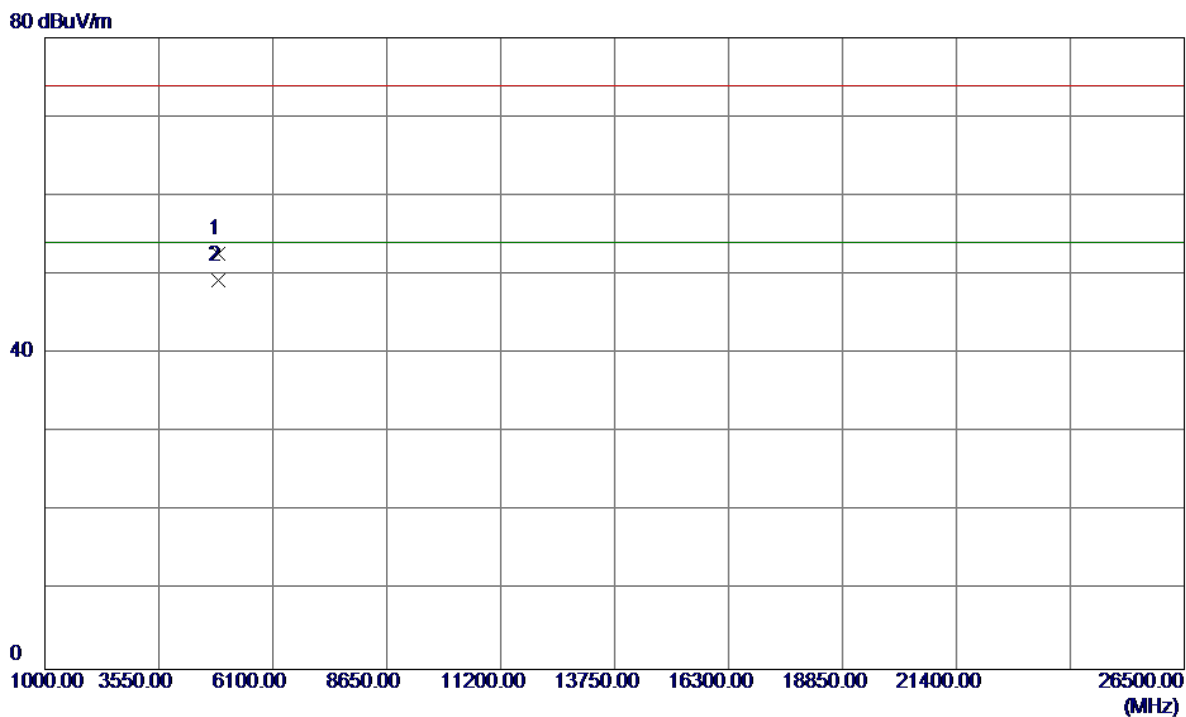
115 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over		
	MHz	dBuV/m	Factor	dBuV/m	dBuV/m	dB	Detector	Comment
1	2433.8000	72.67	33.51	106.18	74.00	32.18	Peak	NO LIMIT
2	2440.1000	64.89	33.52	98.41	54.00	44.41	AVG	NO LIMIT

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

Vertical

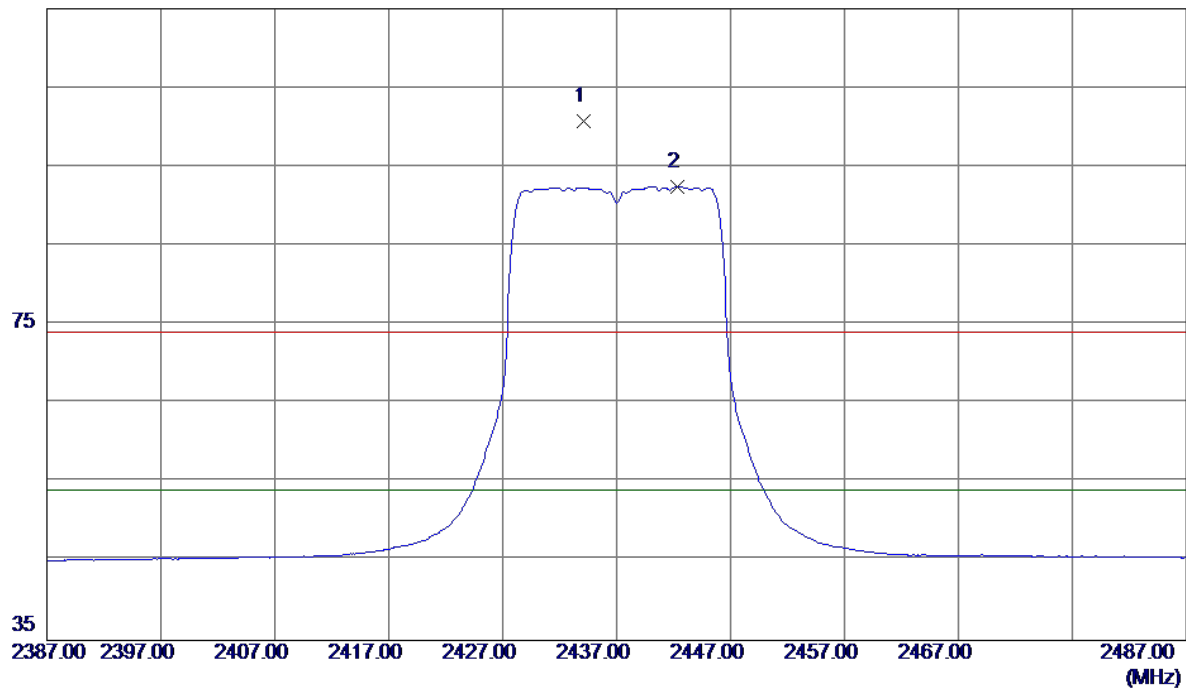


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.8000	45.64	6.97	52.61	74.00	-21.39	Peak	
2	4874.0500	42.29	6.97	49.26	54.00	-4.74	AVG	

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

Horizontal

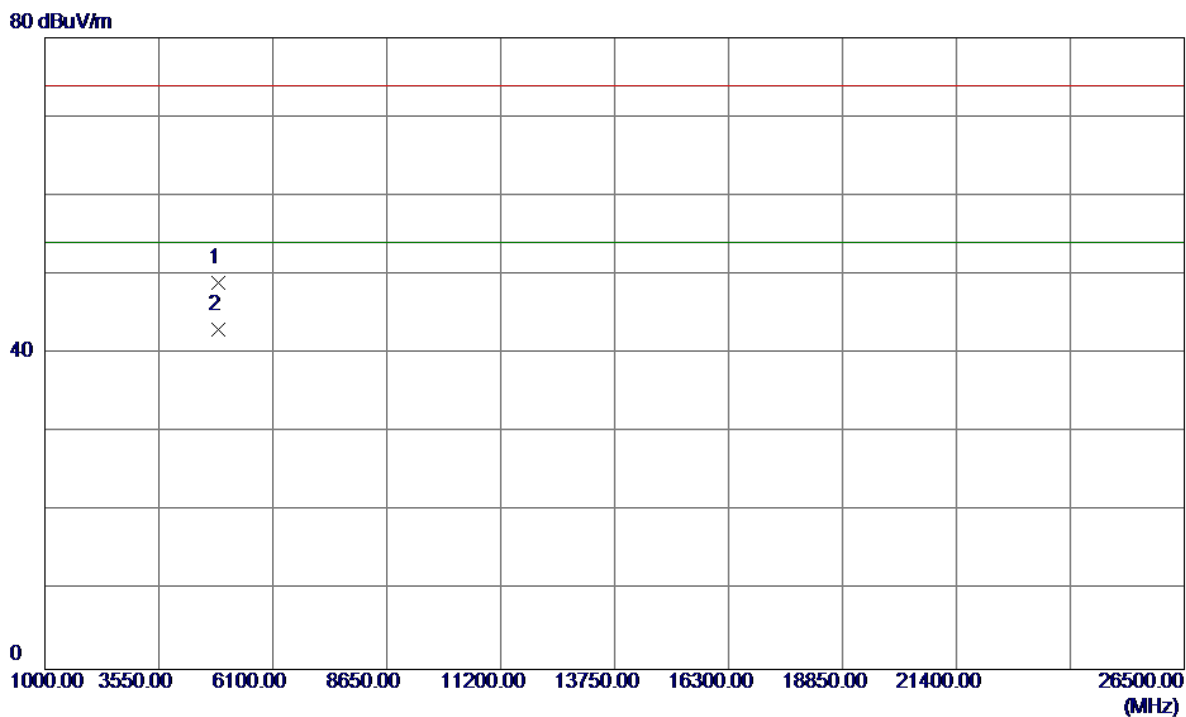
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2434.1000	67.23	33.51	100.74	74.00	26.74	Peak	NO LIMIT
2	2442.3000	58.96	33.52	92.48	54.00	38.48	AVG	NO LIMIT

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

Horizontal

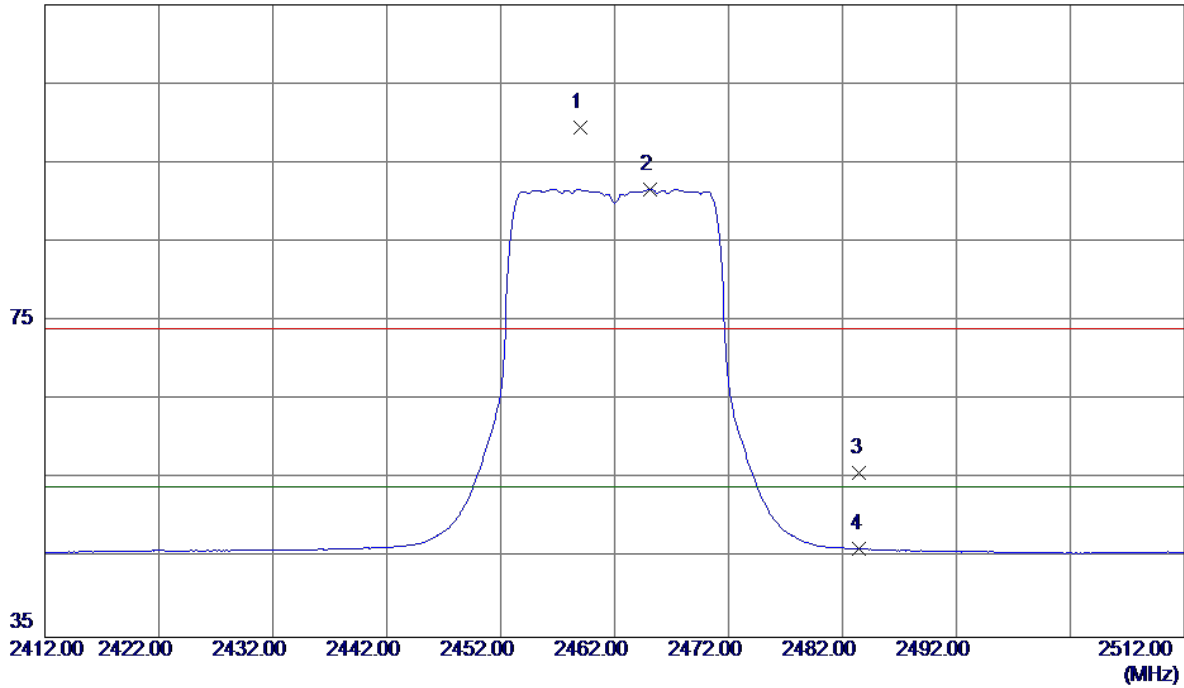


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4873.8500	42.02	6.97	48.99	74.00	-25.01	Peak	
2	4874.0500	36.10	6.97	43.07	54.00	-10.93	AVG	

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

Vertical

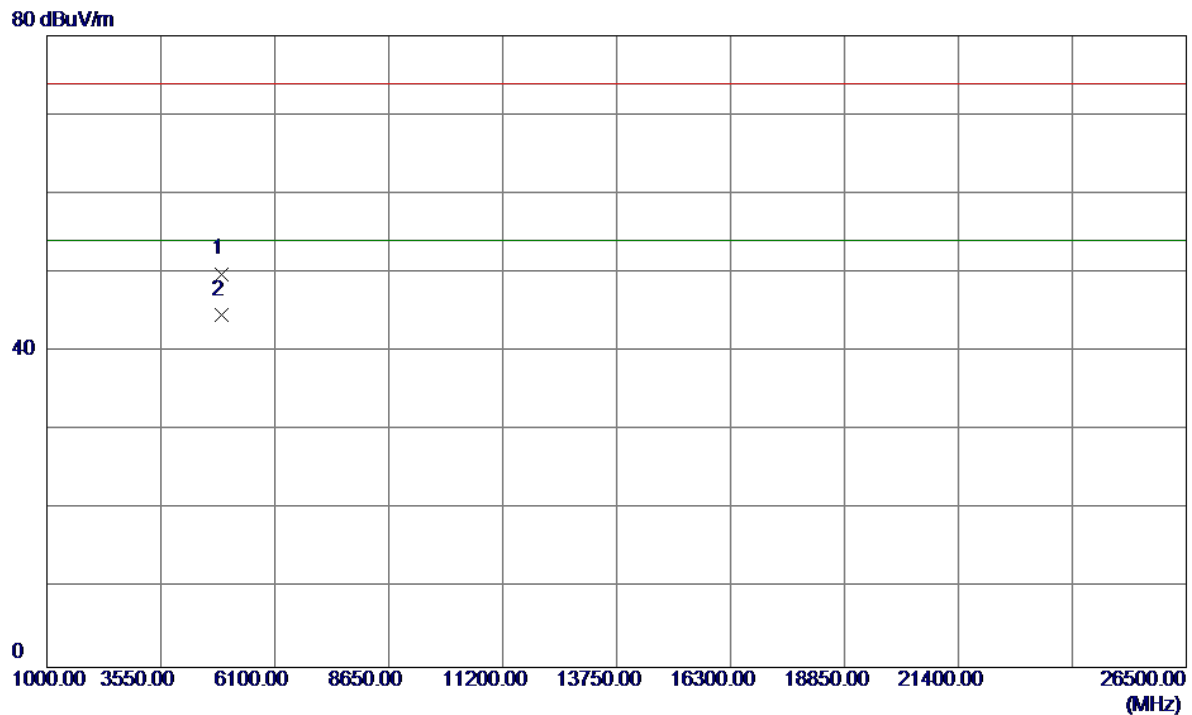
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2459.0000	65.87	33.55	99.42	74.00	25.42	Peak	NO LIMIT
2	2465.1000	58.08	33.56	91.64	54.00	37.64	AVG	NO LIMIT
3	2483.5000	22.20	33.59	55.79	74.00	-18.21	Peak	
4	2483.5000	12.56	33.59	46.15	54.00	-7.85	AVG	

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

Vertical

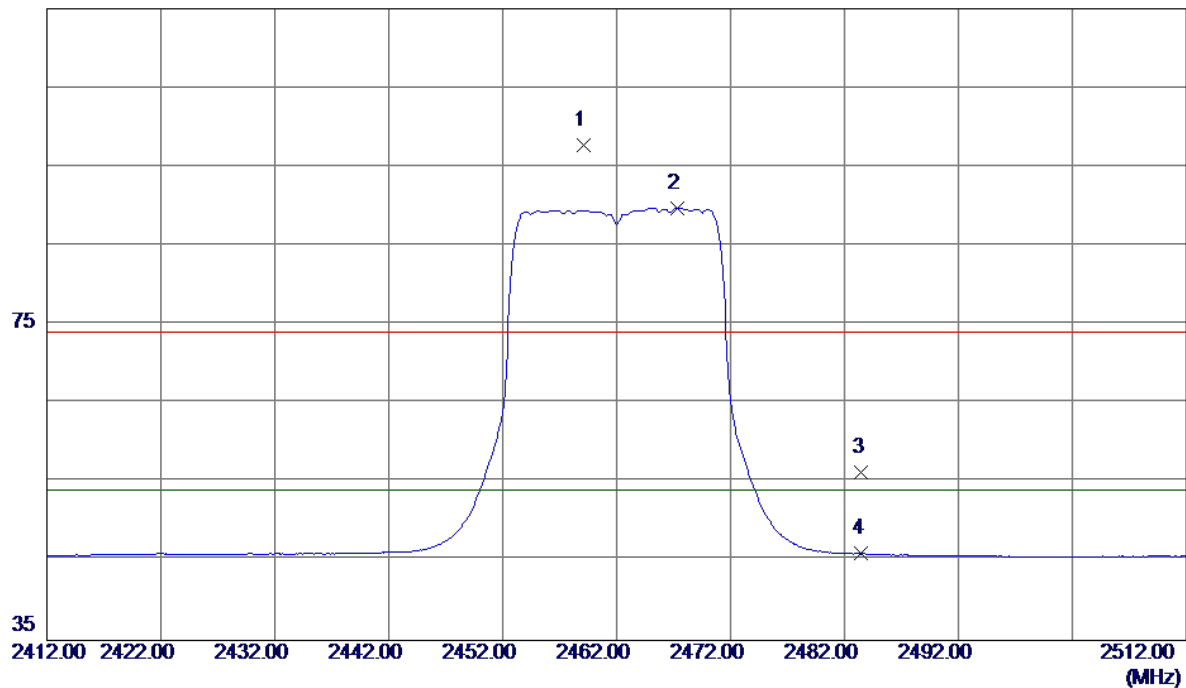


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4923.9500	42.72	7.12	49.84	74.00	-24.16	Peak	
2	4924.0500	37.53	7.12	44.65	54.00	-9.35	AVG	

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

Horizontal

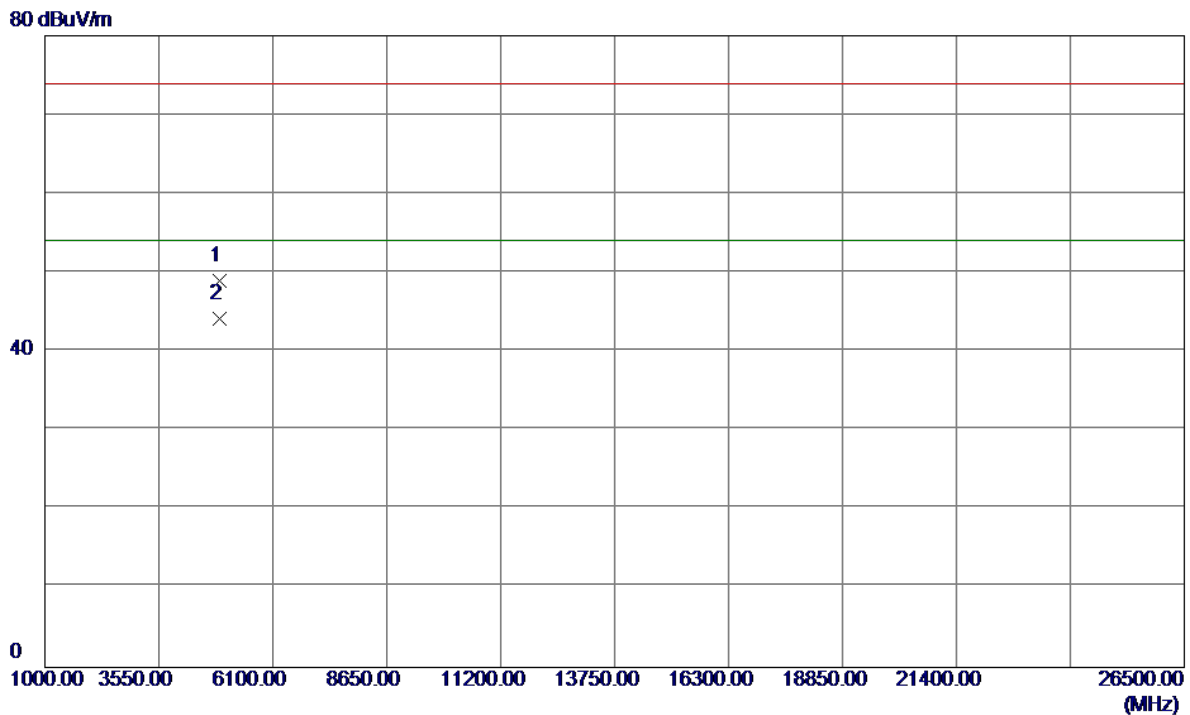
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2459.1000	64.21	33.55	97.76	74.00	23.76	Peak	NO LIMIT
2	2467.3000	56.21	33.56	89.77	54.00	35.77	AVG	NO LIMIT
3	2483.5000	22.73	33.59	56.32	74.00	-17.68	Peak	
4	2483.5000	12.39	33.59	45.98	54.00	-8.02	AVG	

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

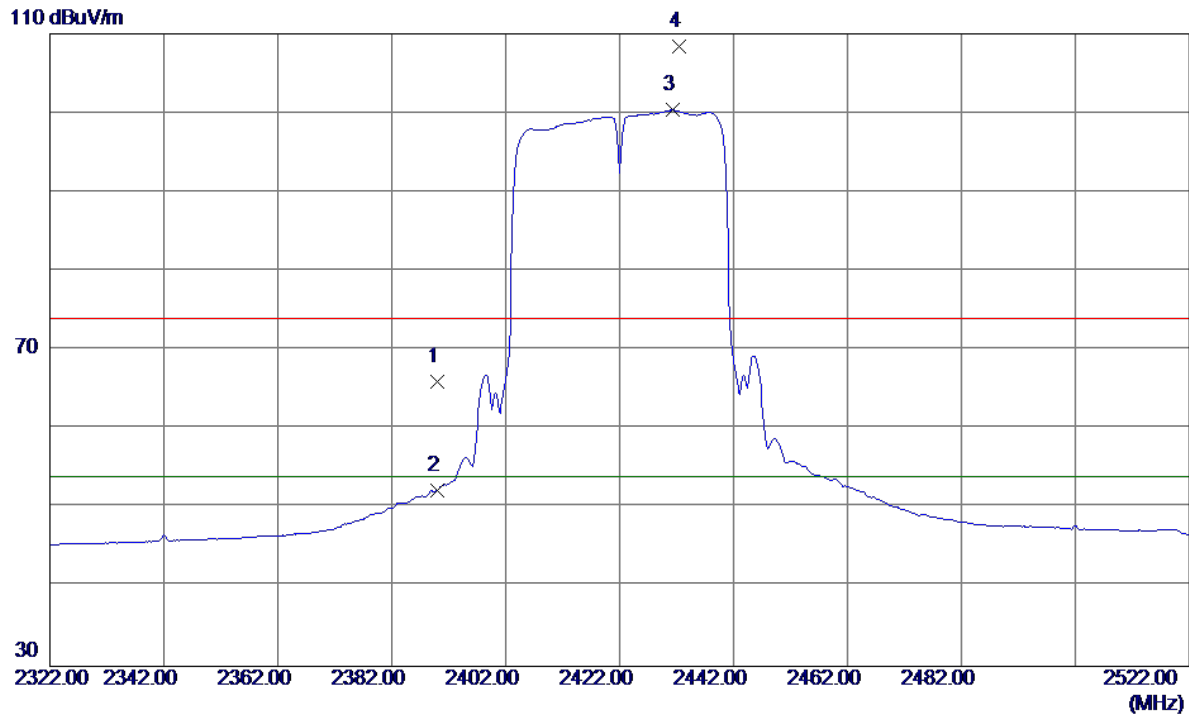
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0000	41.77	7.12	48.89	74.00	-25.11	Peak	
2	4924.0500	37.00	7.12	44.12	54.00	-9.88	AVG	

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

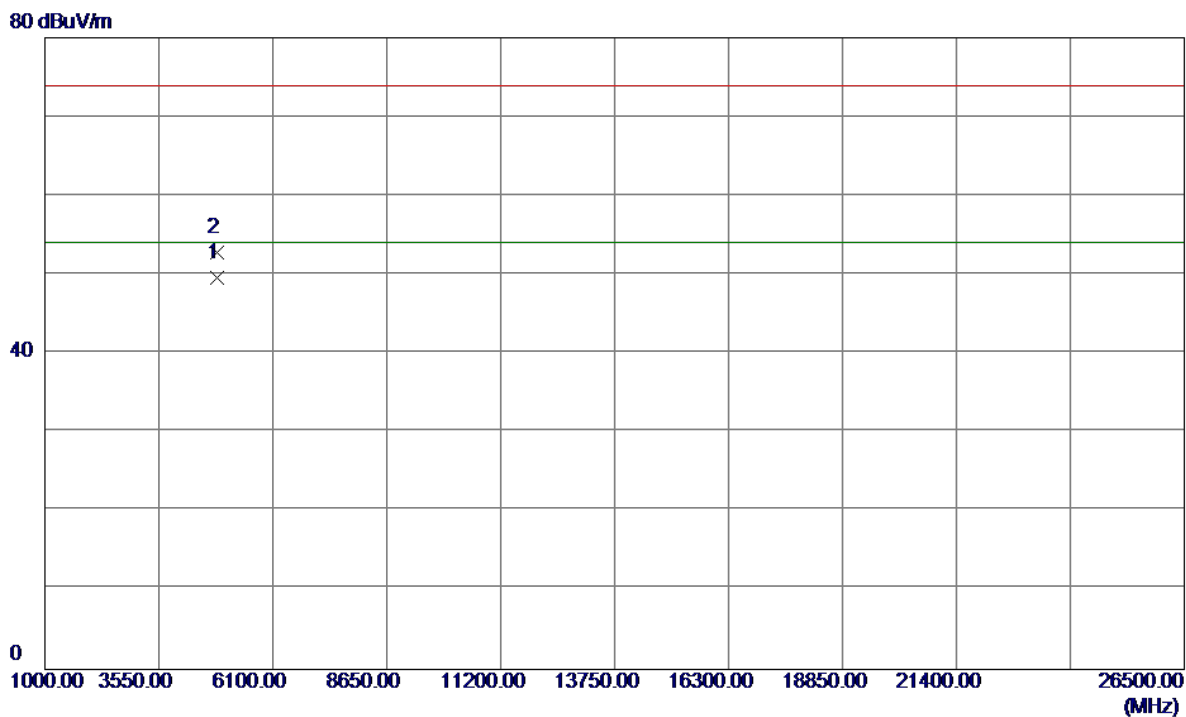
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	32.57	33.43	66.00	74.00	-8.00	Peak	
2	2390.0000	18.86	33.43	52.29	54.00	-1.71	AVG	
3	2431.4000	66.88	33.50	100.38	54.00	46.38	AVG	NO LIMIT
4	2432.4000	74.94	33.50	108.44	74.00	34.44	Peak	NO LIMIT

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

Vertical

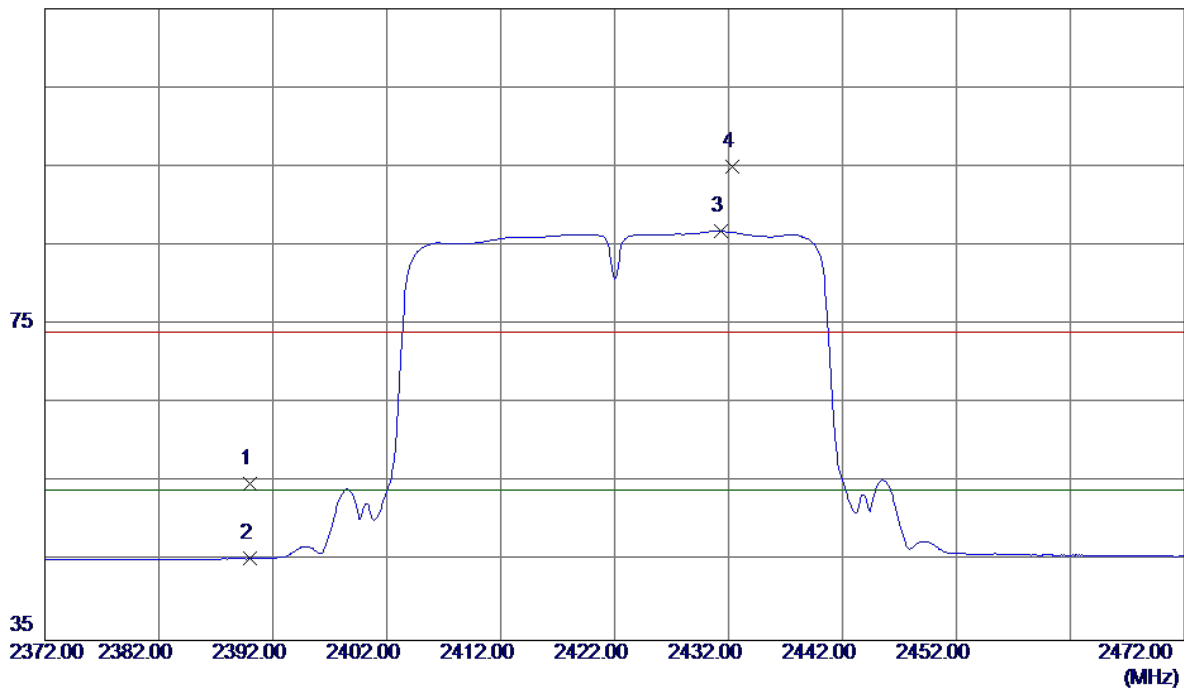


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4844.0500	42.74	6.88	49.62	54.00	-4.38	AVG	
2	4844.2000	45.85	6.88	52.73	74.00	-21.27	Peak	

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

Horizontal

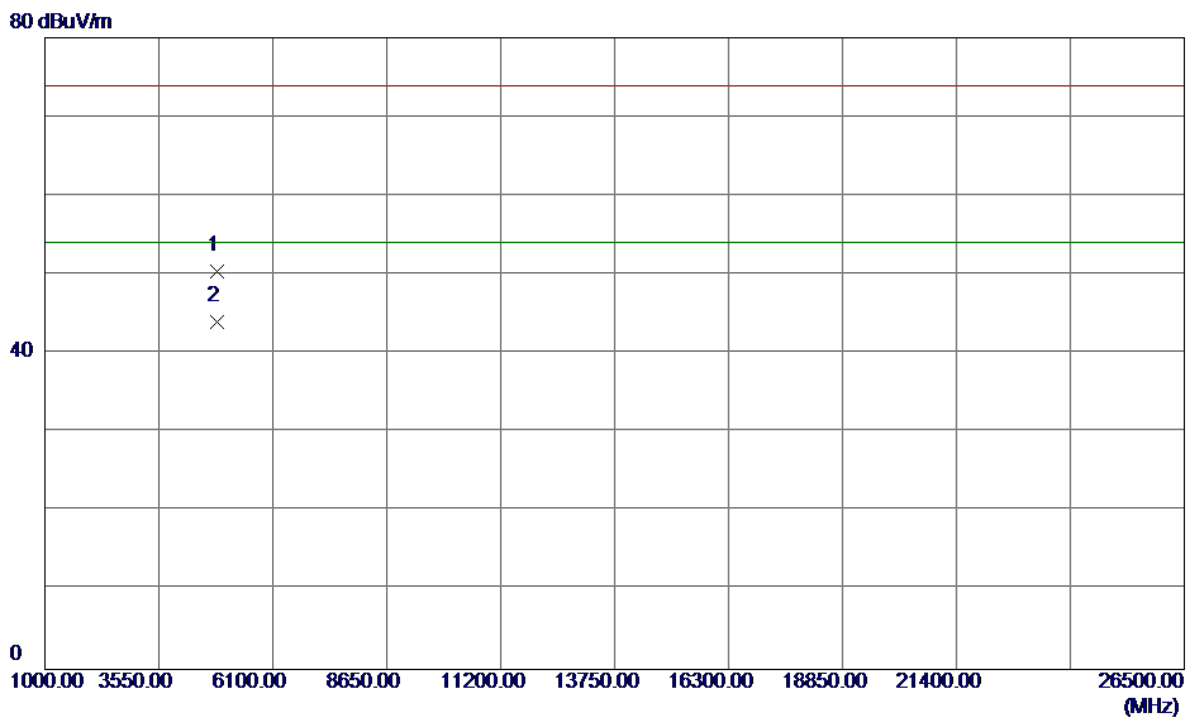
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	21.38	33.43	54.81	74.00	-19.19	Peak	
2	2390.0000	11.94	33.43	45.37	54.00	-8.63	AVG	
3	2431.3000	53.39	33.50	86.89	54.00	32.89	AVG	NO LIMIT
4	2432.3000	61.52	33.50	95.02	74.00	21.02	Peak	NO LIMIT

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

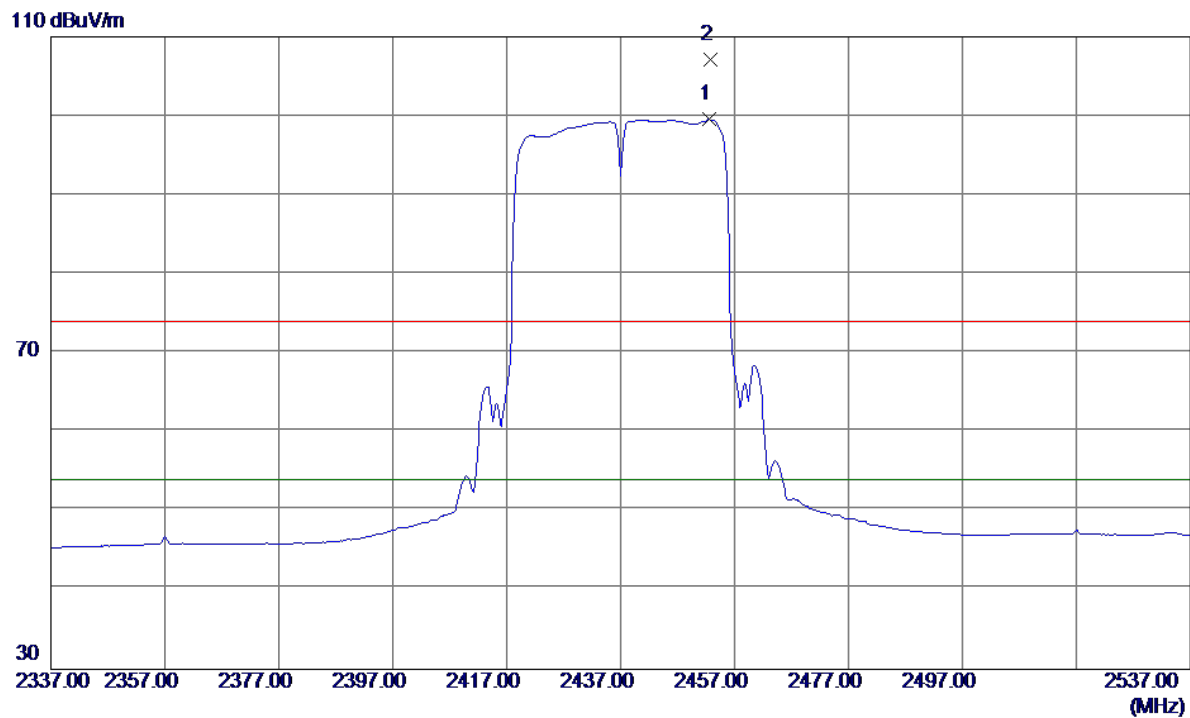
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.9500	43.60	6.88	50.48	74.00	-23.52	Peak	
2	4844.0500	37.20	6.88	44.08	54.00	-9.92	AVG	

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

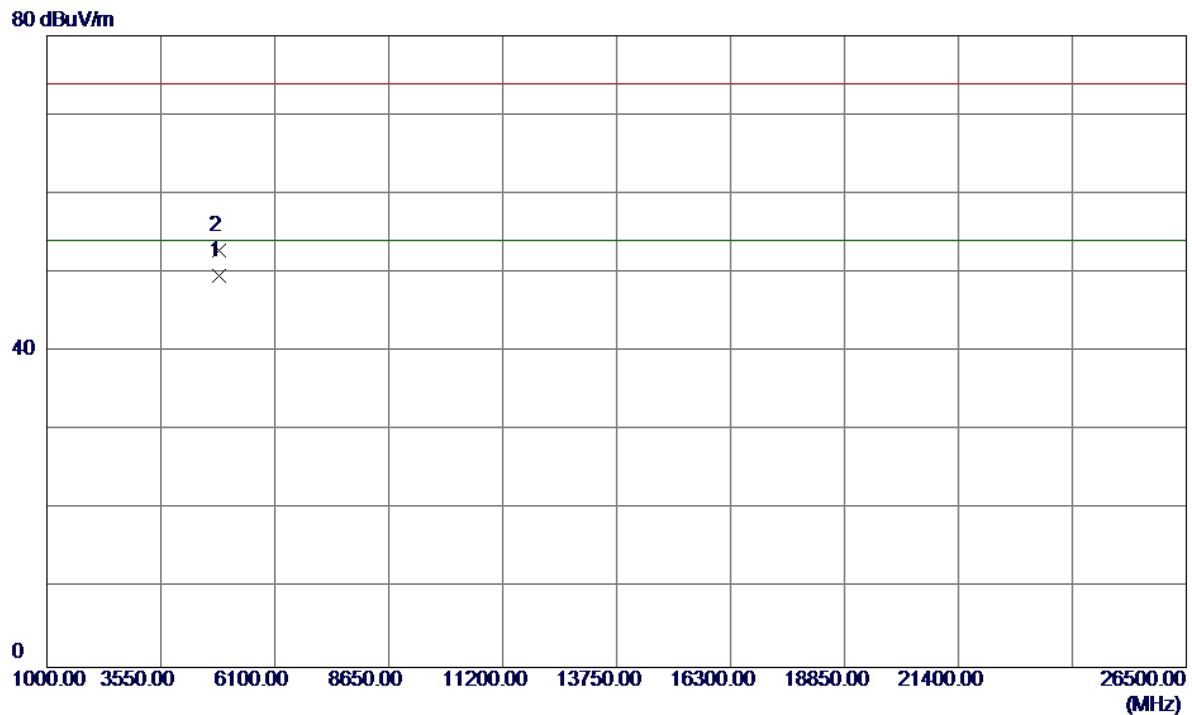
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2452.6000	65.99	33.54	99.53	54.00	45.53	AVG	NO LIMIT
2	2452.8000	73.53	33.54	107.07	74.00	33.07	Peak	NO LIMIT

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

Vertical

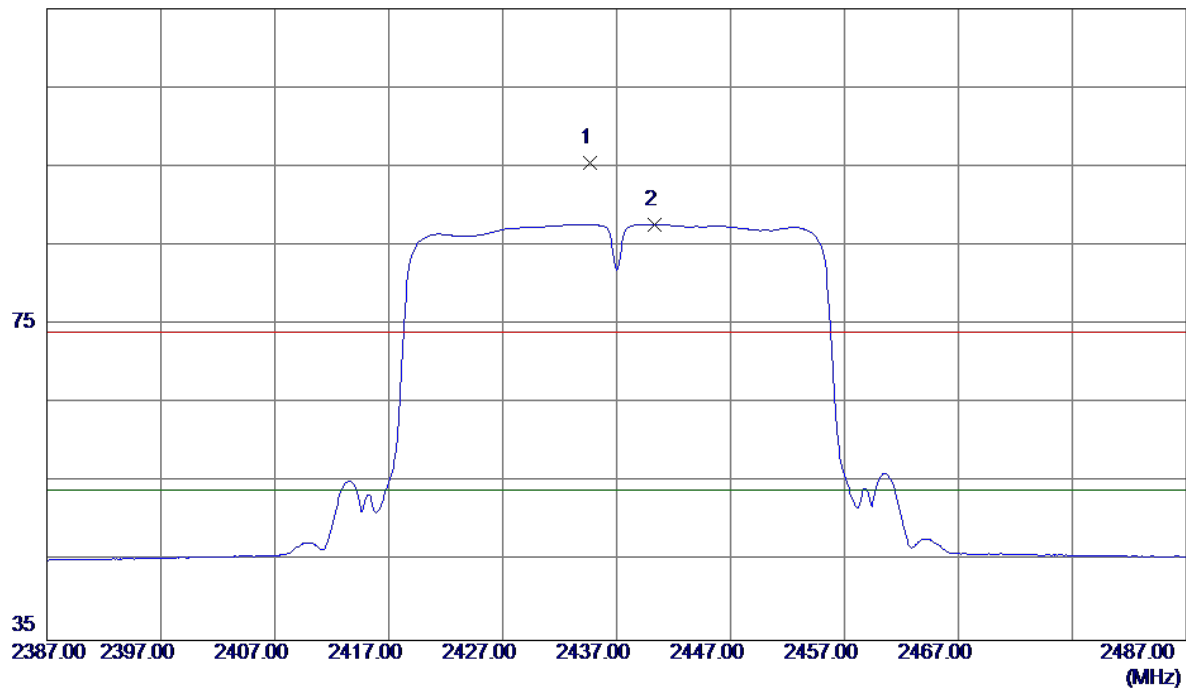


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4844.0500	42.74	6.88	49.62	54.00	-4.38	AVG	
2	4844.2000	45.85	6.88	52.73	74.00	-21.27	Peak	

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

Horizontal

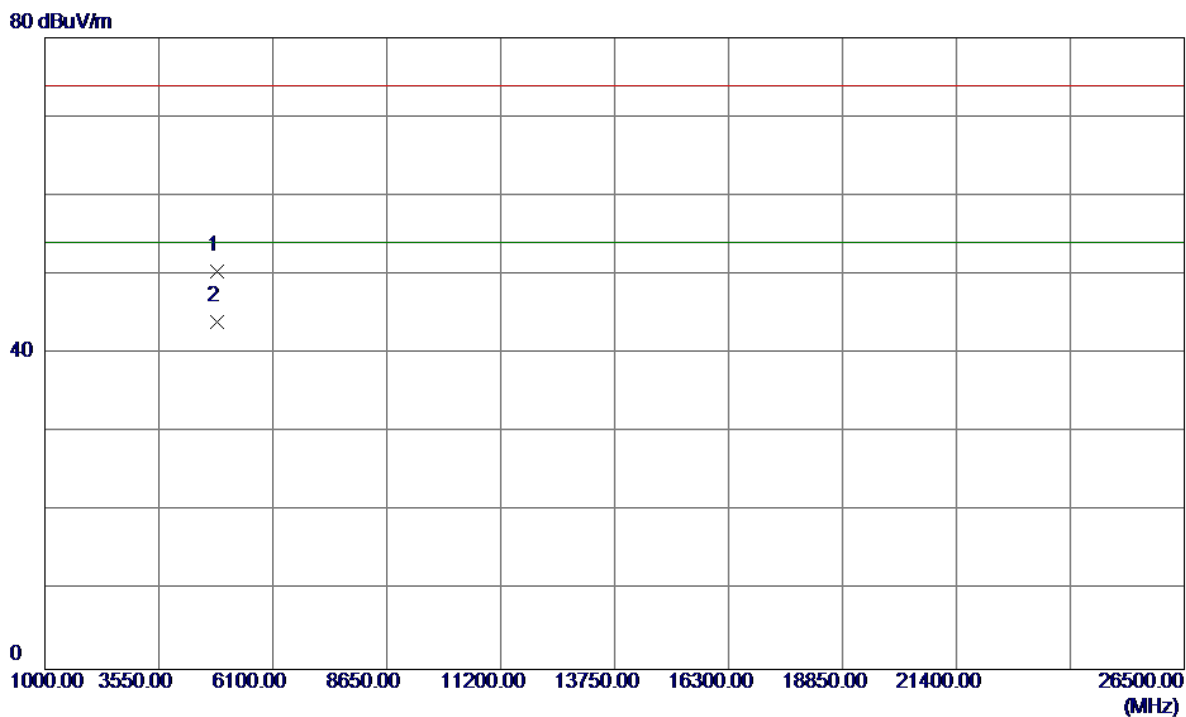
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2434.7000	61.95	33.51	95.46	74.00	21.46	Peak	NO LIMIT
2	2440.3000	54.16	33.52	87.68	54.00	33.68	AVG	NO LIMIT

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

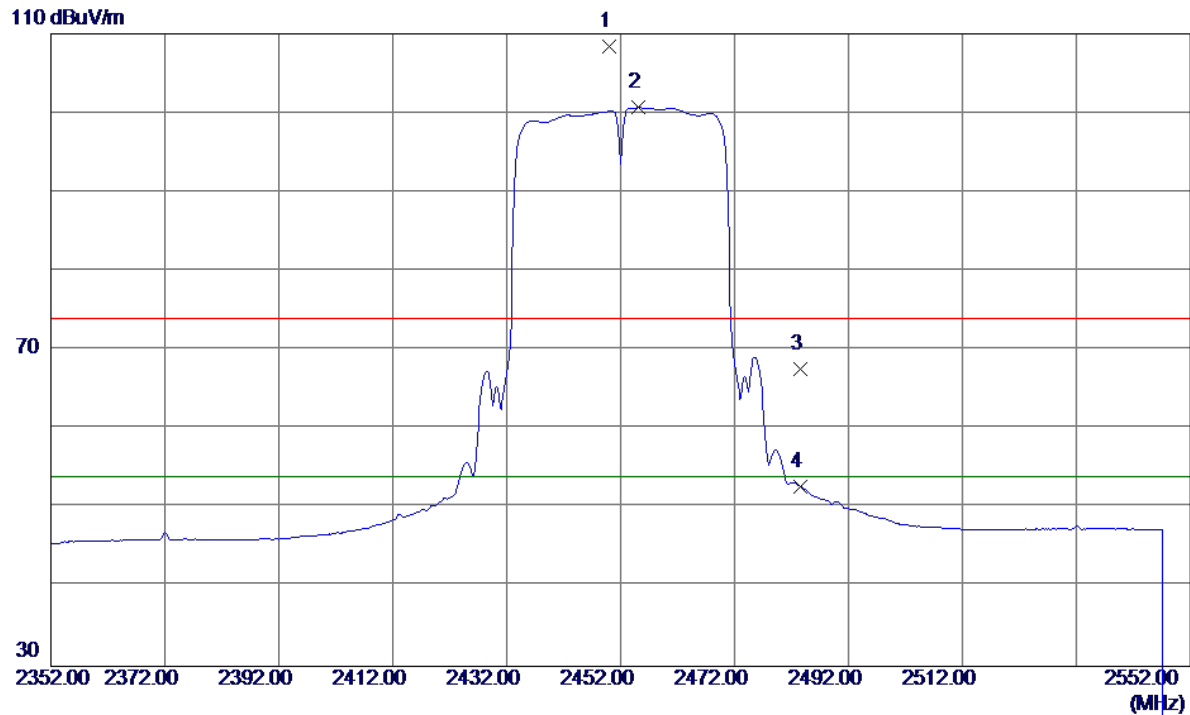
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.9500	43.60	6.88	50.48	74.00	-23.52	Peak	
2	4844.0500	37.20	6.88	44.08	54.00	-9.92	AVG	

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

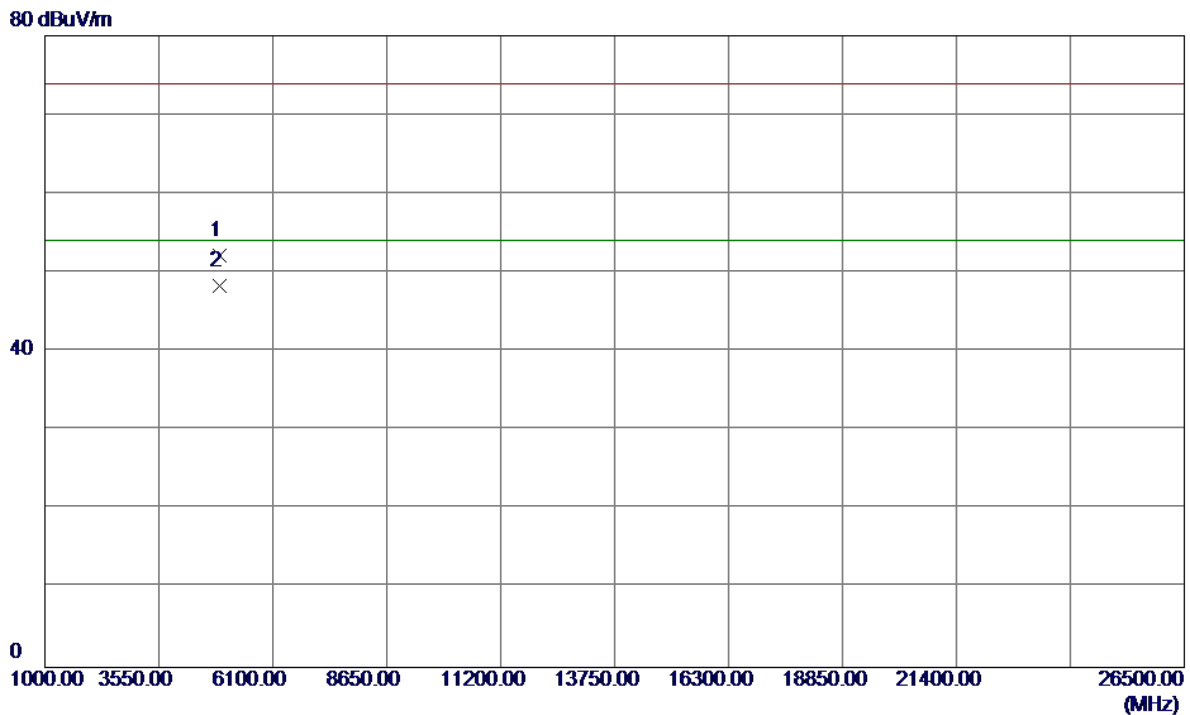
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2450.0000	74.86	33.53	108.39	74.00	34.39	Peak	NO LIMIT
2	2455.2000	67.14	33.54	100.68	54.00	46.68	AVG	NO LIMIT
3	2483.5000	34.04	33.59	67.63	74.00	-6.37	Peak	
4	2483.5000	19.20	33.59	52.79	54.00	-1.21	AVG	

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

Vertical

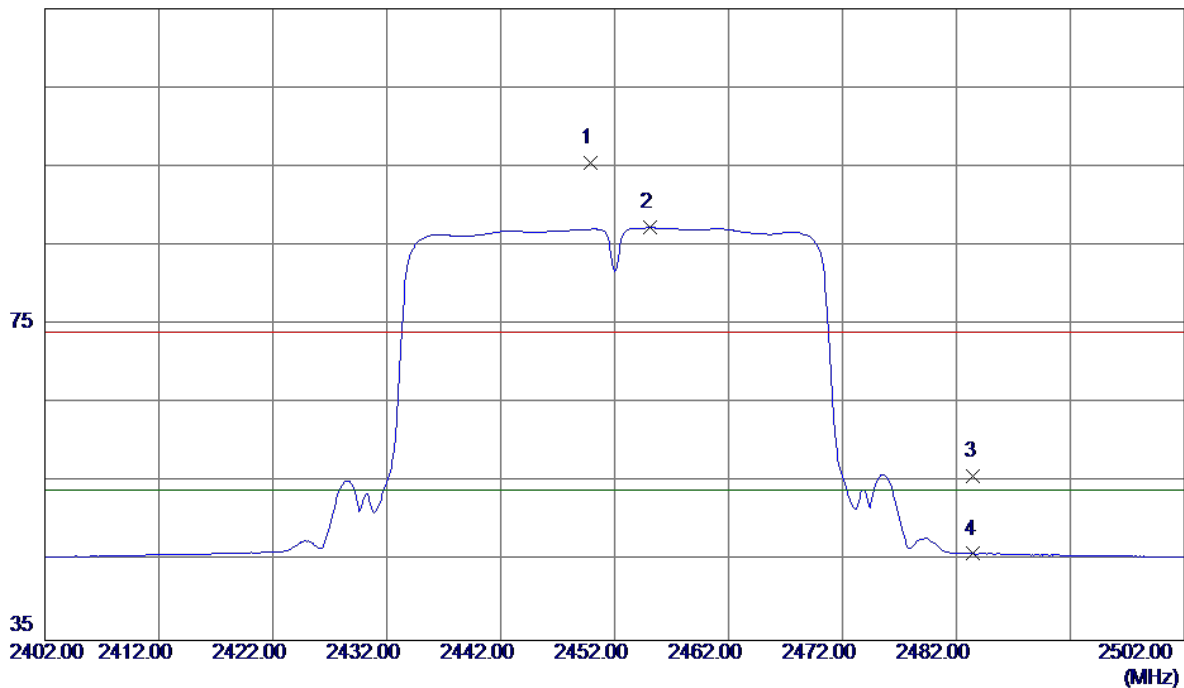


No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4904.0000	45.07	7.06	52.13	74.00	-21.87	Peak	
2	4904.0500	41.26	7.06	48.32	54.00	-5.68	AVG	

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

Horizontal

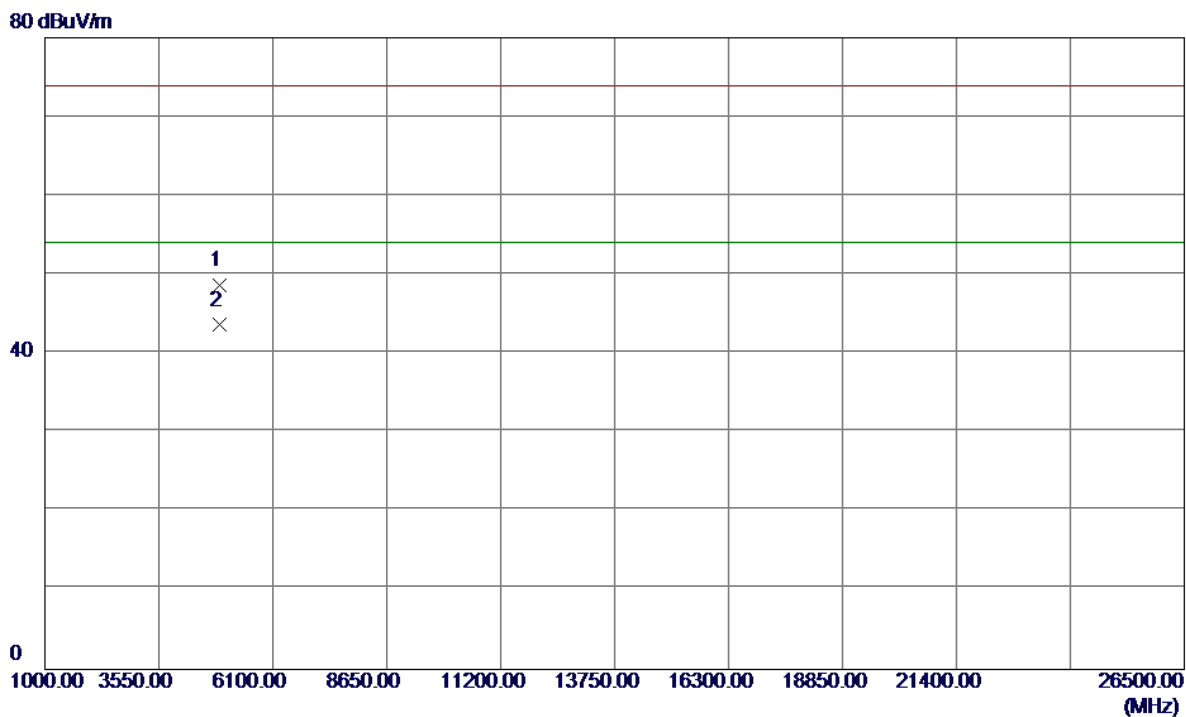
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2449.9000	61.87	33.53	95.40	74.00	21.40	Peak	NO LIMIT
2	2455.1000	53.73	33.54	87.27	54.00	33.27	AVG	NO LIMIT
3	2483.5000	22.20	33.59	55.79	74.00	-18.21	Peak	
4	2483.5000	12.37	33.59	45.96	54.00	-8.04	AVG	

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

Horizontal



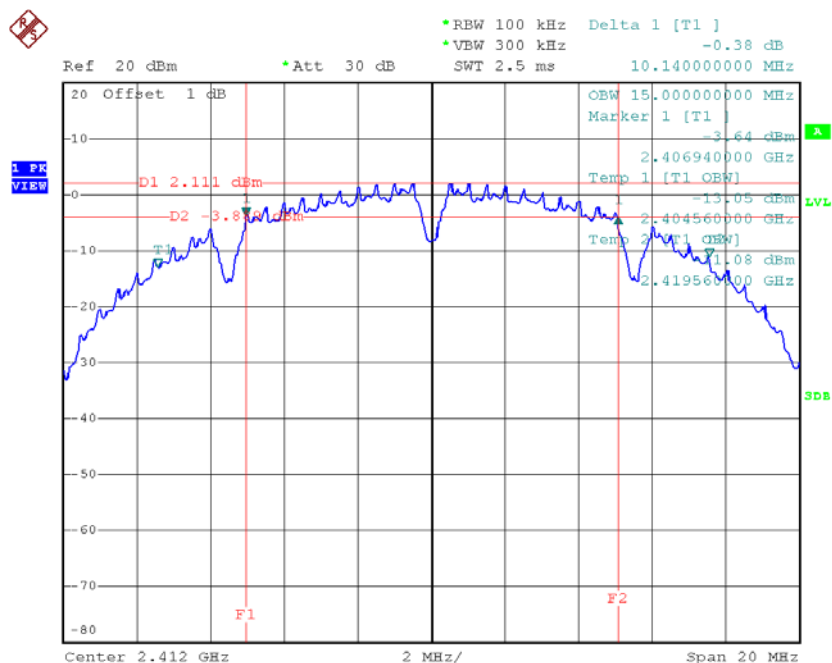
No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4904.0500	41.60	7.06	48.66	74.00	-25.34	Peak	
2	4904.0500	36.54	7.06	43.60	54.00	-10.40	AVG	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

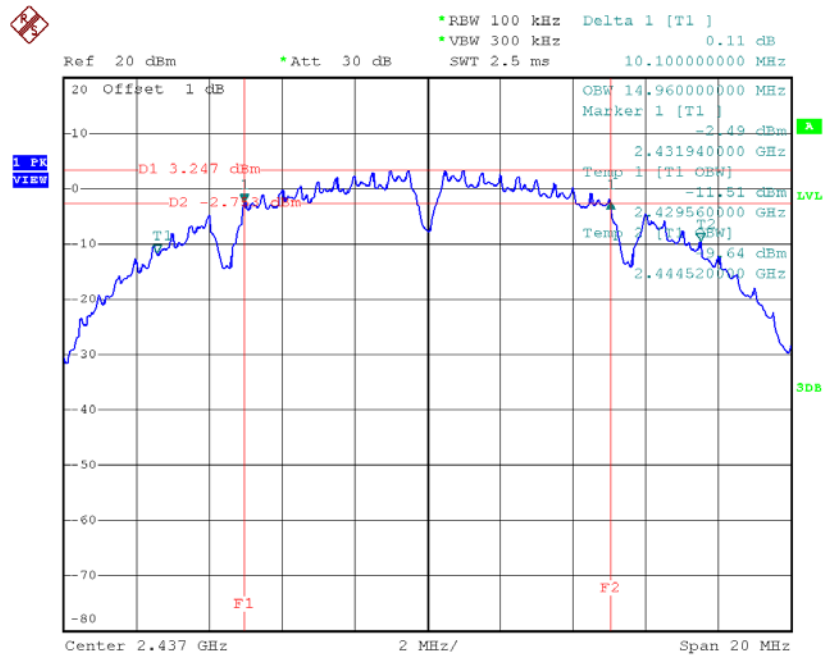
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.14	15.00	500	Complies
2437	10.10	14.96	500	Complies
2462	10.11	15.04	500	Complies

TX CH01



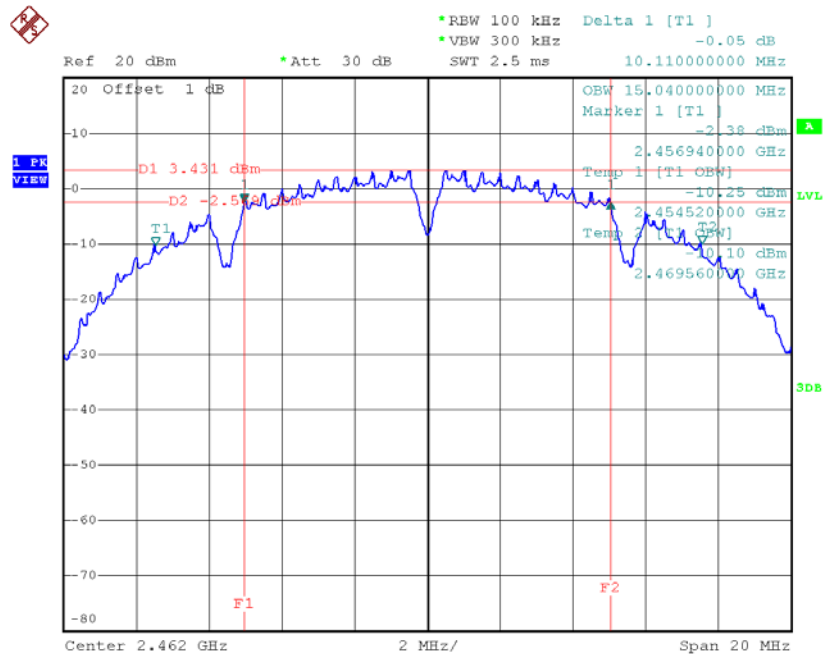
Date: 24.JUL.2015 15:05:33

TX CH06



Date: 24.JUL.2015 15:10:19

TX CH11

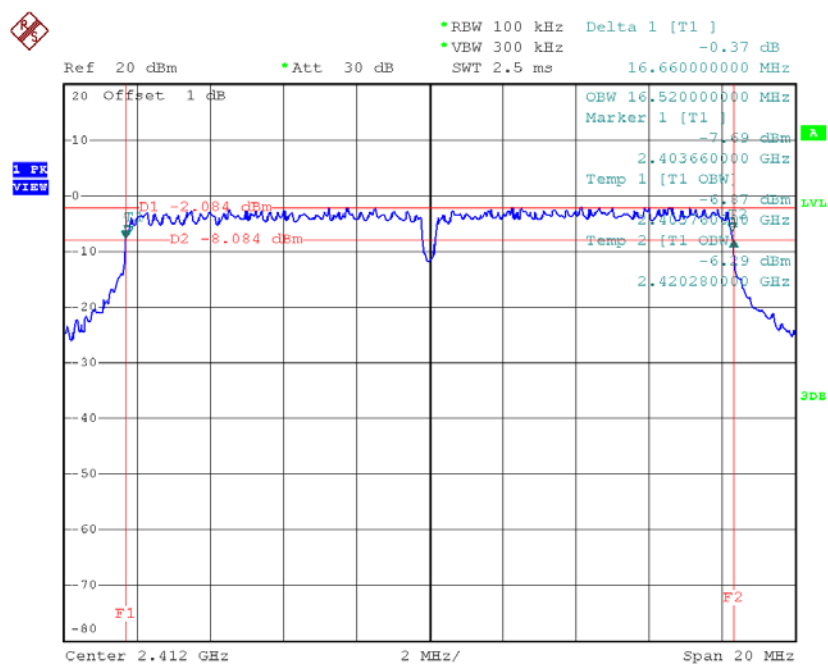


Date: 24.JUL.2015 15:12:53

Test Mode: TX G Mode_CH01/06/11

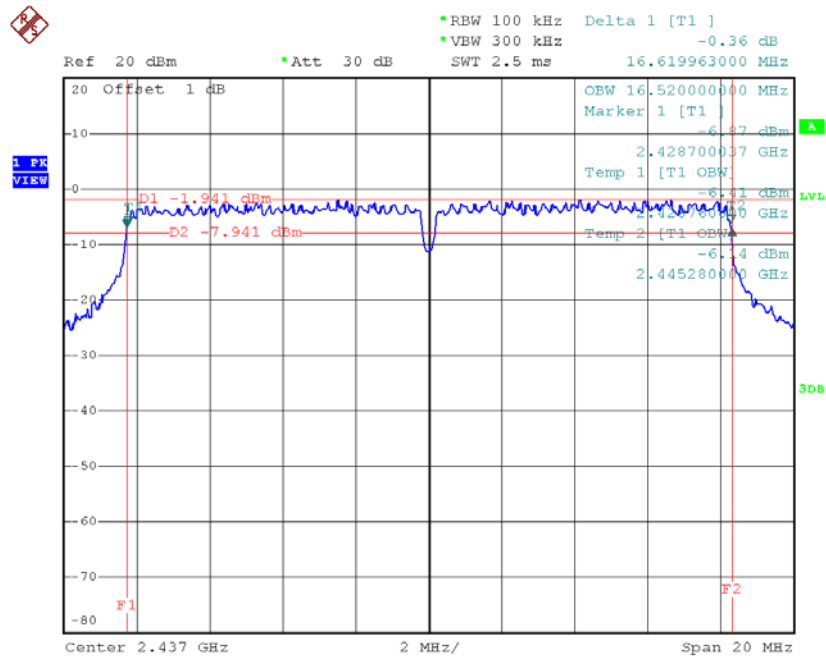
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.66	16.52	500	Complies
2437	16.62	16.52	500	Complies
2462	16.62	16.52	500	Complies

TX CH01



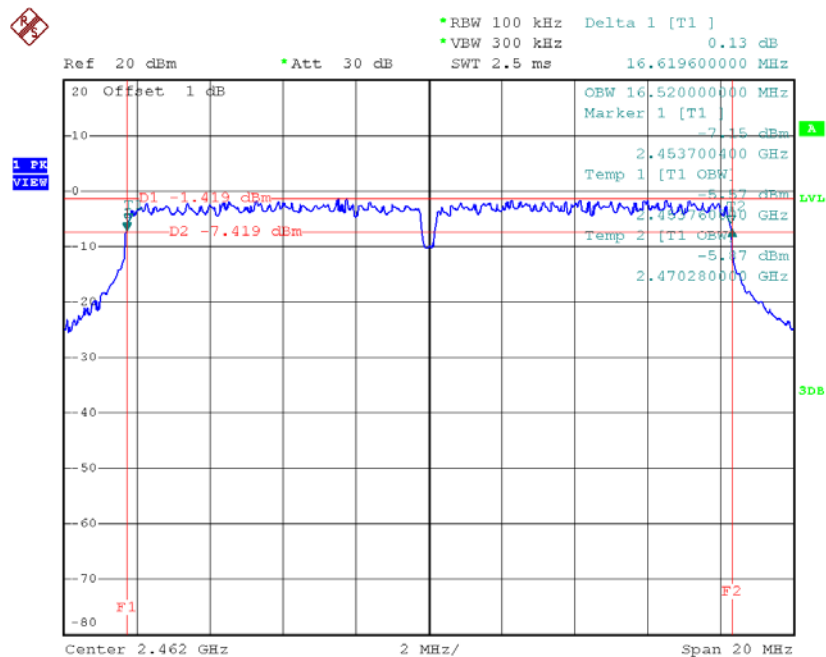
Date: 24.JUL.2015 15:14:38

TX CH06



Date: 24.JUL.2015 15:17:19

TX CH11

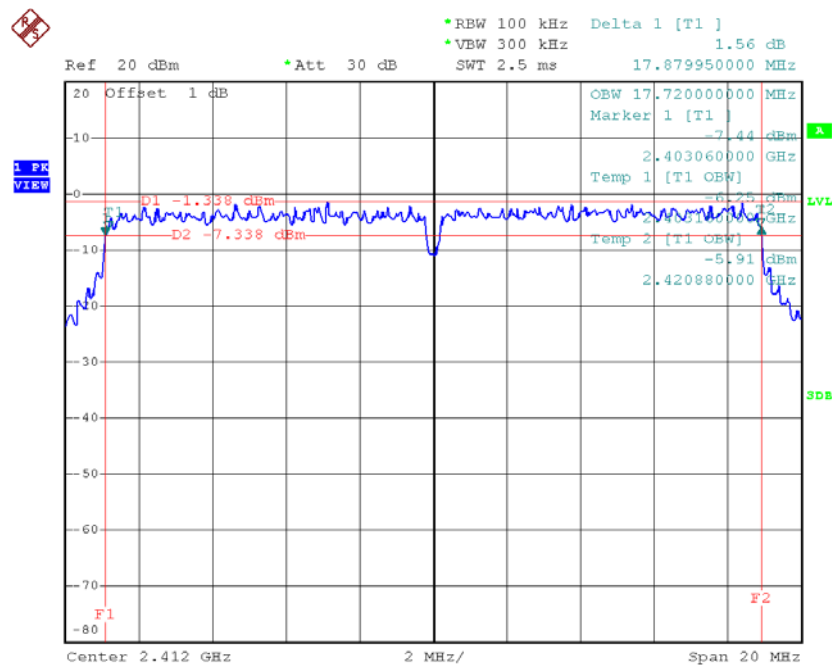


Date: 24.JUL.2015 15:18:12

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

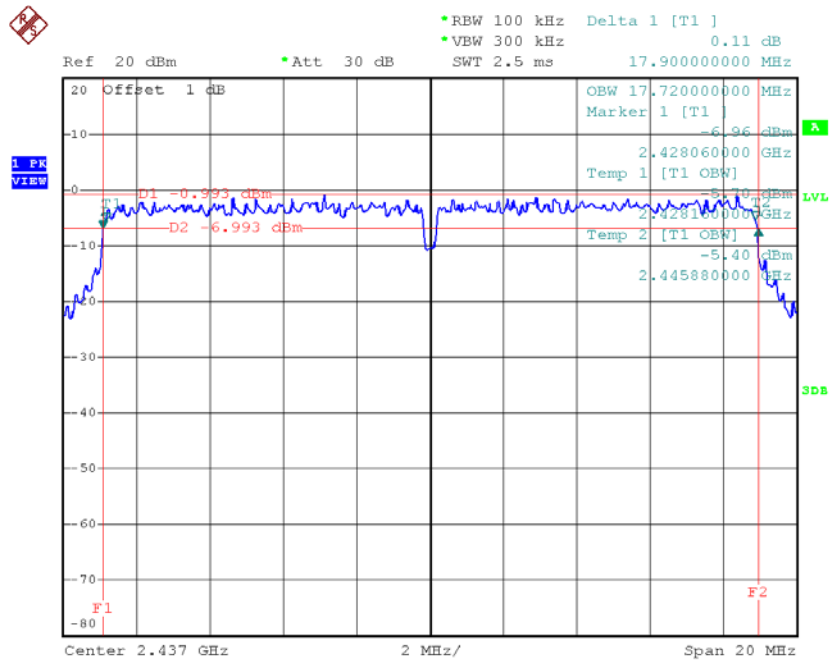
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.88	17.72	500	Complies
2437	17.90	17.72	500	Complies
2462	17.84	17.72	500	Complies

TX CH01



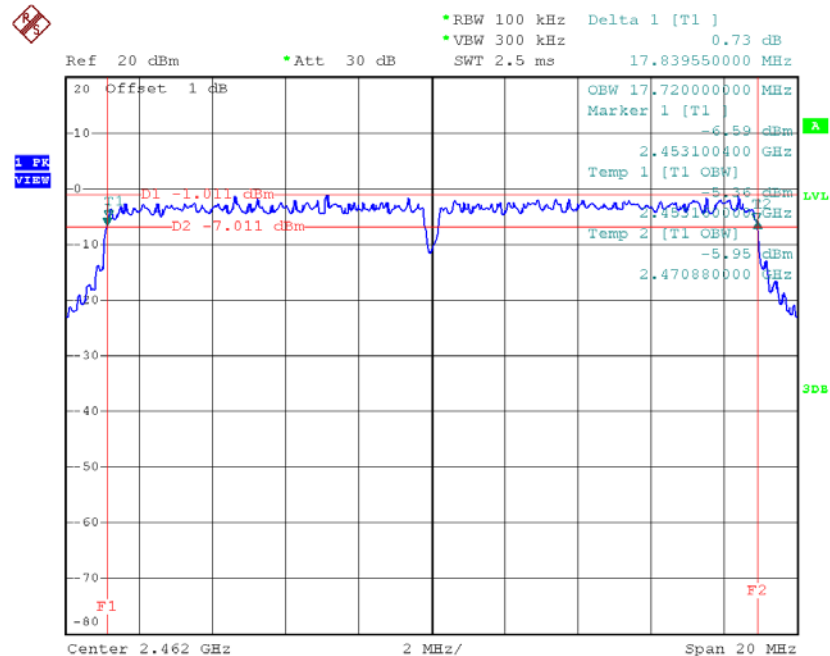
Date: 24.JUL.2015 15:26:01

TX CH06



Date: 24.JUL.2015 15:29:46

TX CH11

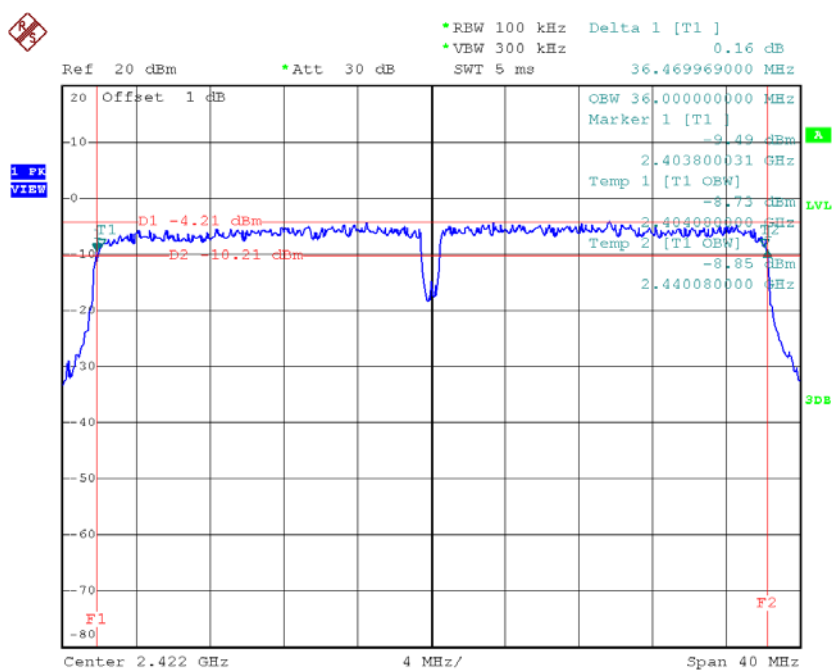


Date: 24.JUL.2015 15:30:49

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

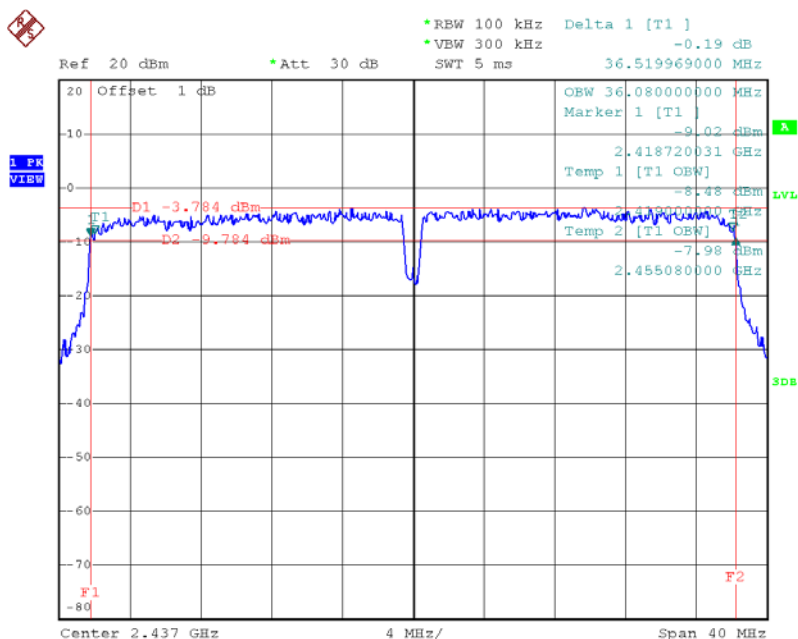
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.47	36.00	500	Complies
2437	36.52	36.08	500	Complies
2452	36.49	36.08	500	Complies

TX CH03



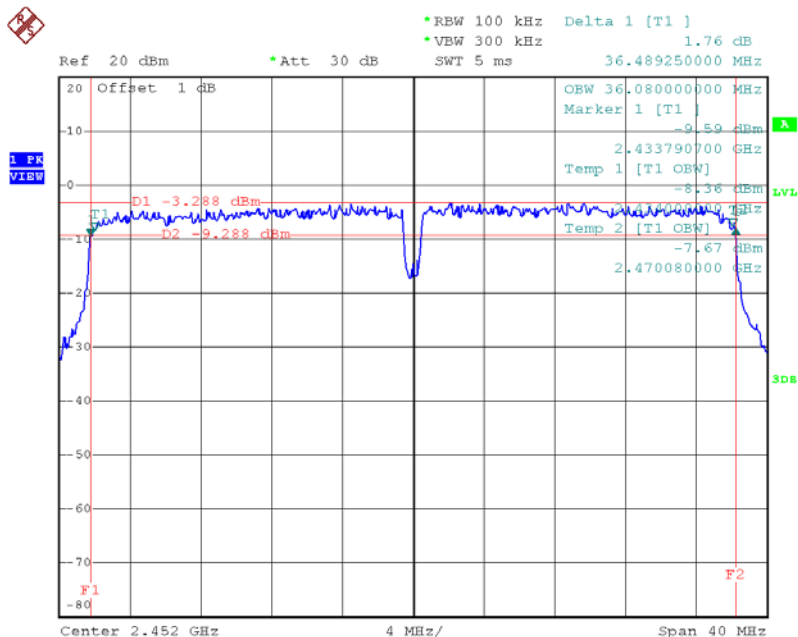
Date: 29.JUL.2015 12:56:15

TX CH06



Date: 29.JUL.2015 12:59:56

TX CH09



Date: 29.JUL.2015 13:01:08

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	16.12	0.04	30.00	1.00	Complies
2437	16.67	0.05	30.00	1.00	Complies
2462	16.41	0.04	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	23.25	0.21	30.00	1.00	Complies
2437	23.71	0.23	30.00	1.00	Complies
2462	23.82	0.24	30.00	1.00	Complies

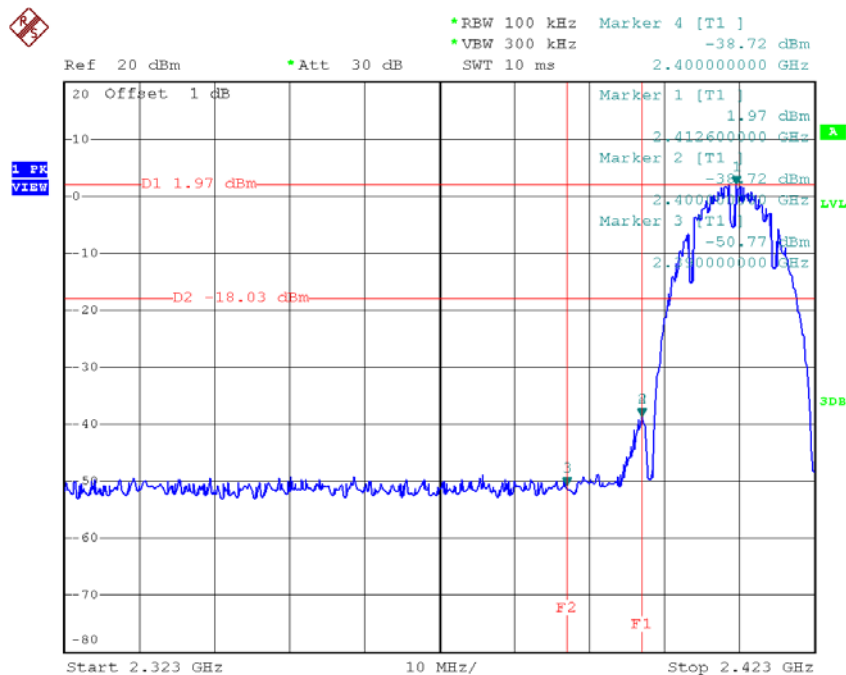
Test Mode :TX N20 Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	23.09	0.20	30.00	1.00	Complies
2437	23.36	0.22	30.00	1.00	Complies
2462	18.41	0.07	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.46	0.07	30.00	1.00	Complies
2437	23.18	0.21	30.00	1.00	Complies
2452	17.96	0.06	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

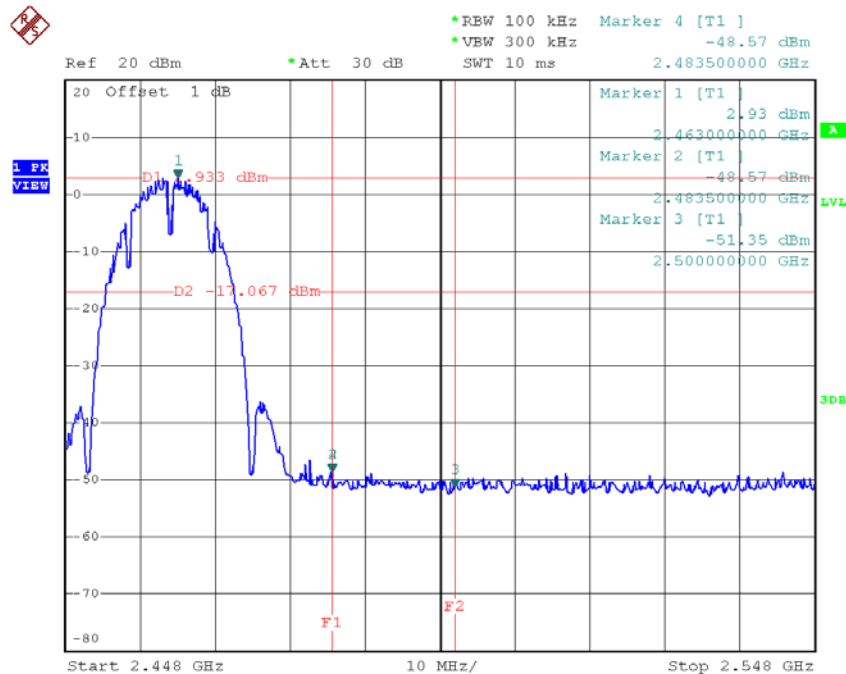
Test Mode :	TX B Mode
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TX B mode CH01



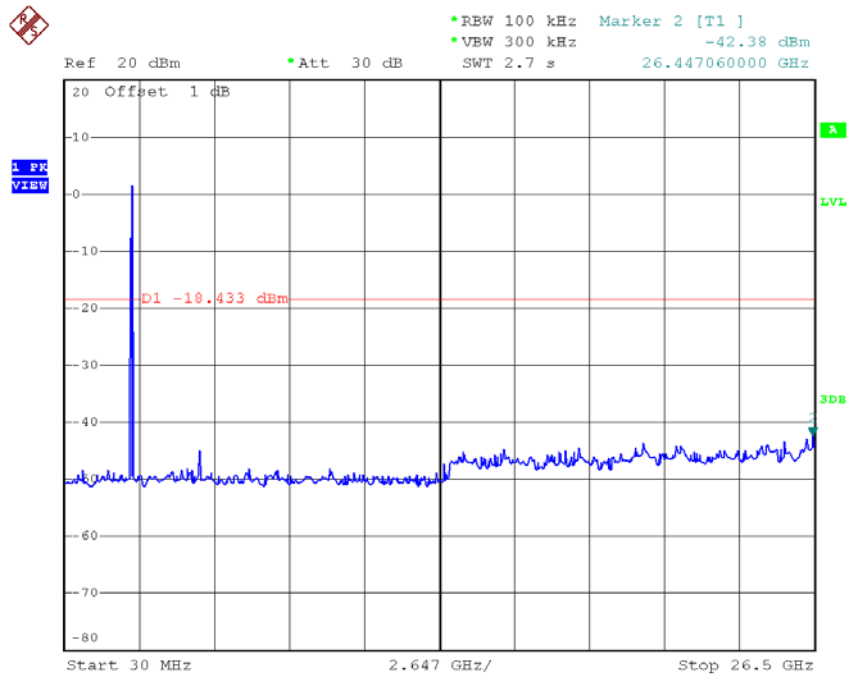
Date: 24.JUL.2015 15:05:55

TX B mode CH11



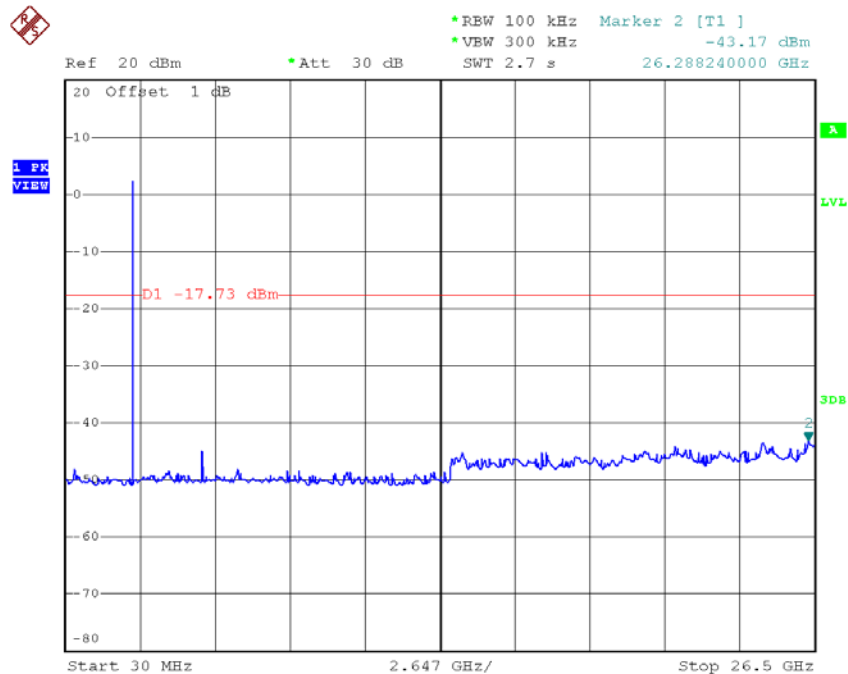
Date: 24.JUL.2015 15:13:15

TX B mode CH01 (10 Harmonic of the frequency)



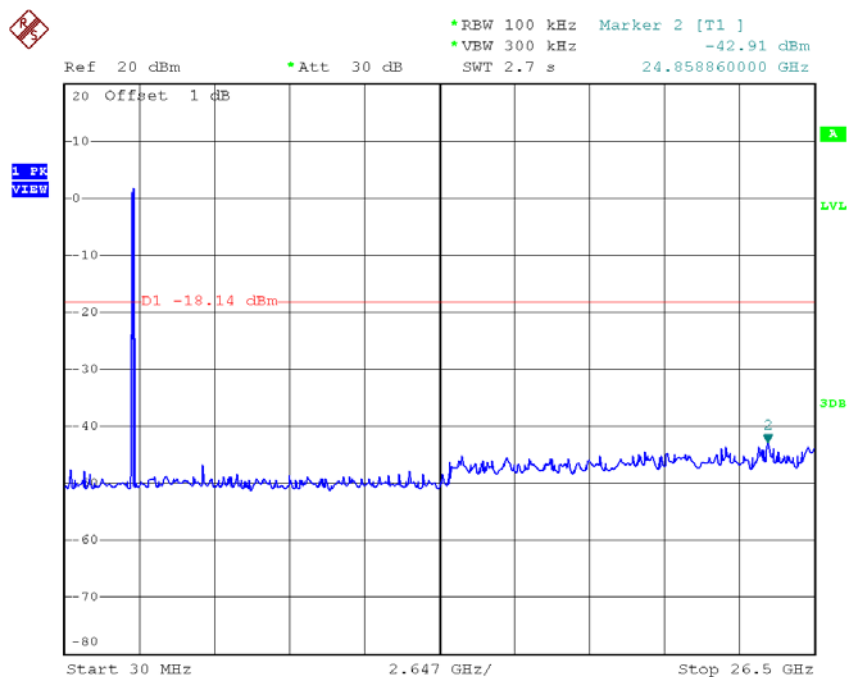
Date: 24.JUL.2015 15:05:47

TX B mode CH06 (10 Harmonic of the frequency)



Date: 24.JUL.2015 15:10:33

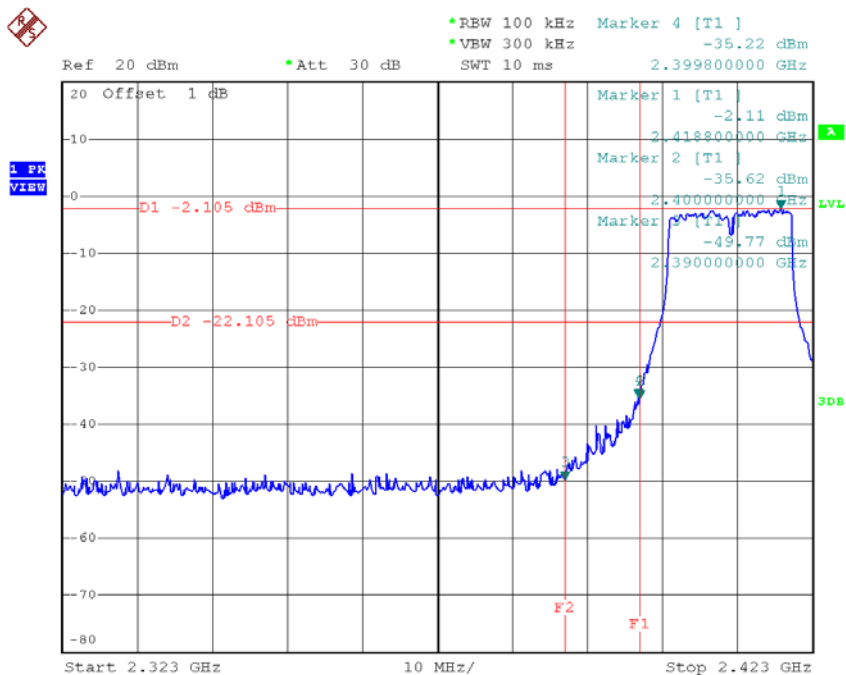
TX B mode CH11 (10 Harmonic of the frequency)



Date: 24.JUL.2015 15:13:07

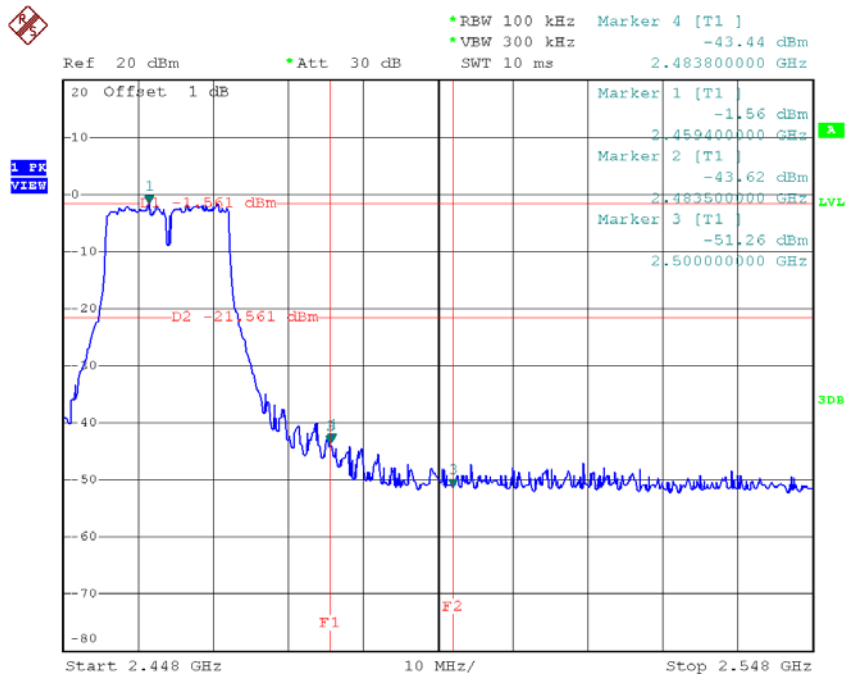
Test Mode :	TX G Mode
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TX G mode CH01



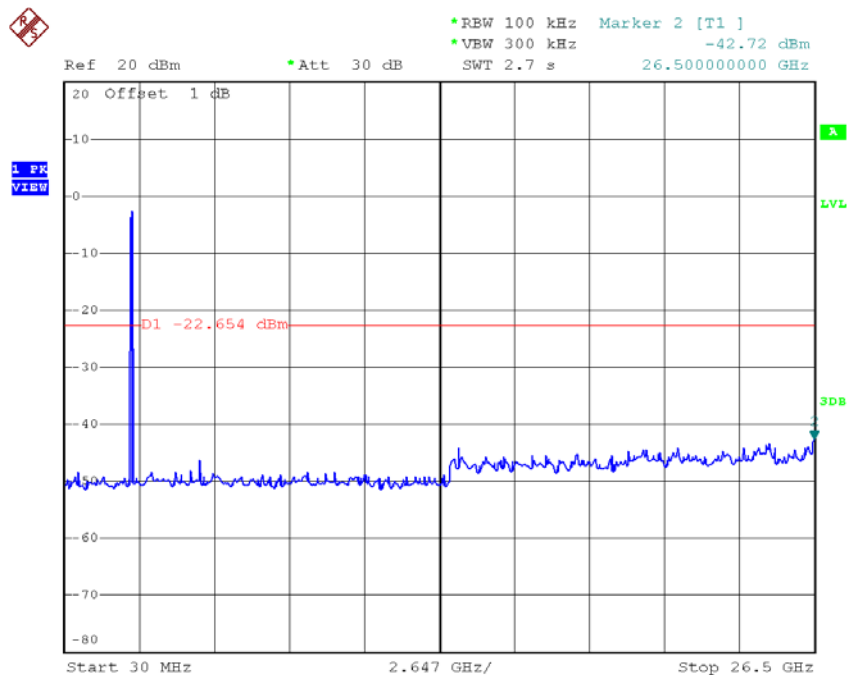
Date: 24.JUL.2015 15:15:00

TX G mode CH11



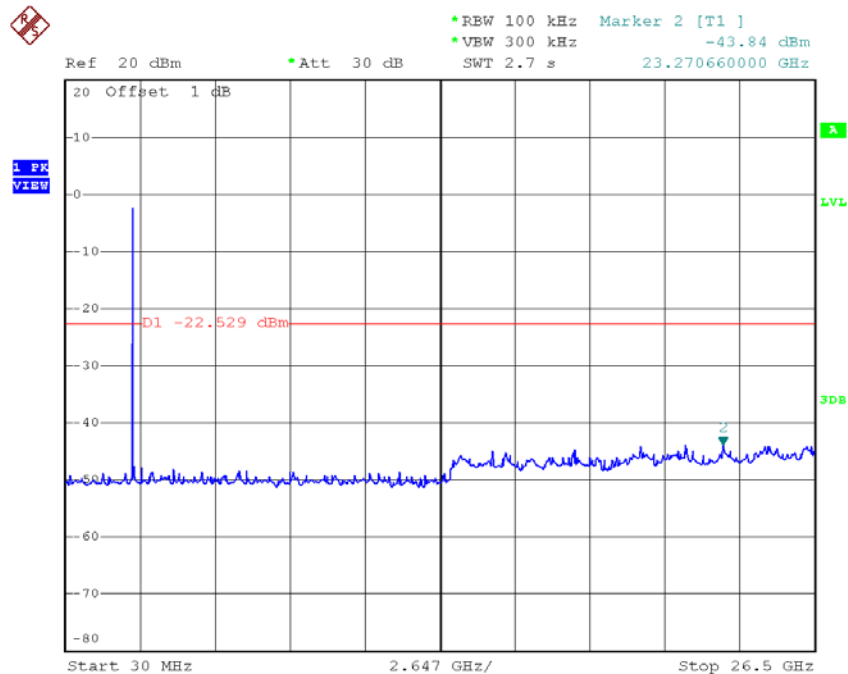
Date: 24.JUL.2015 15:18:34

TX G mode CH01 (10 Harmonic of the frequency)



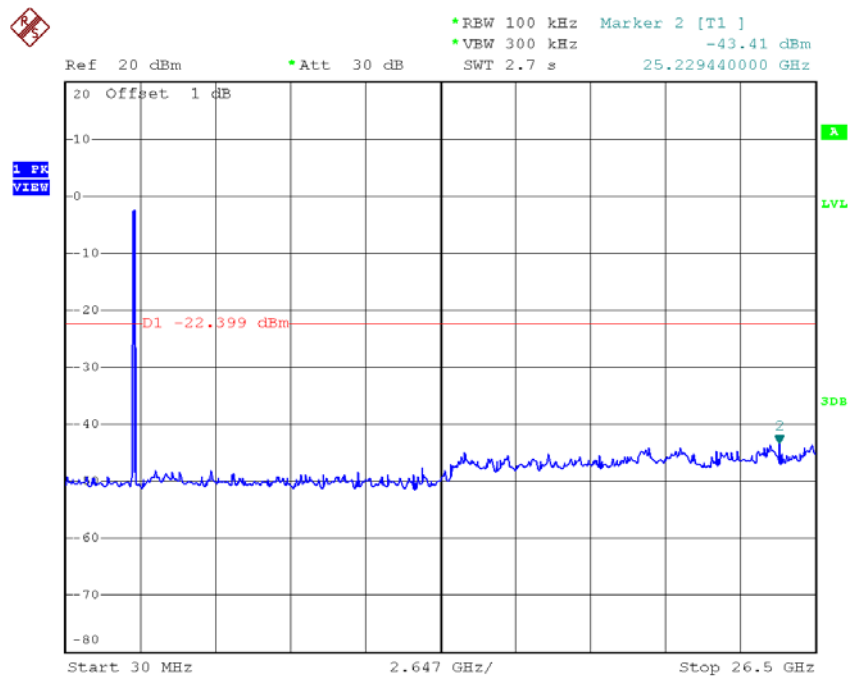
Date: 24.JUL.2015 15:14:52

TX G mode CH06 (10 Harmonic of the frequency)



Date: 24.JUL.2015 15:17:34

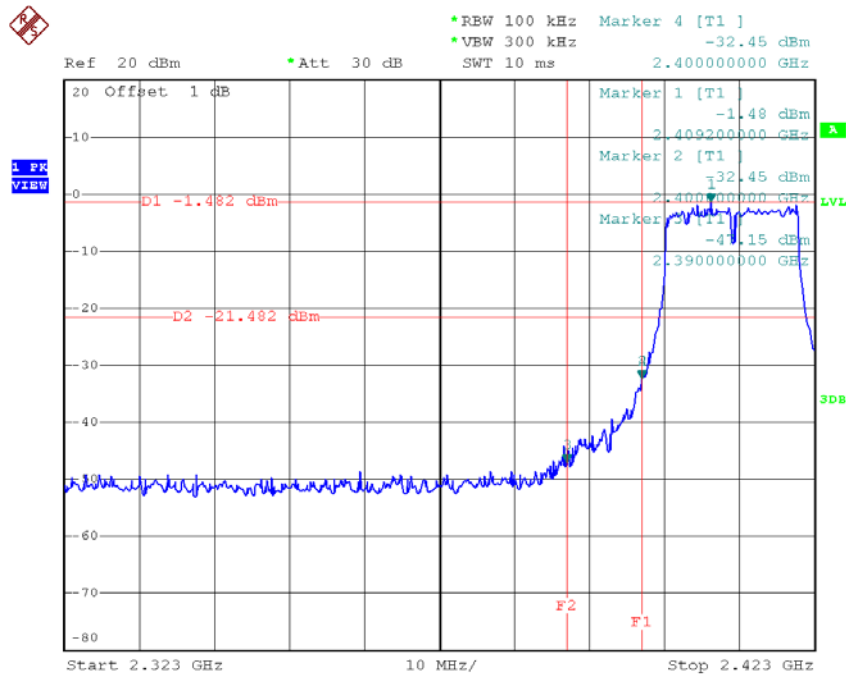
TX G mode CH11 (10 Harmonic of the frequency)



Date: 24.JUL.2015 15:18:26

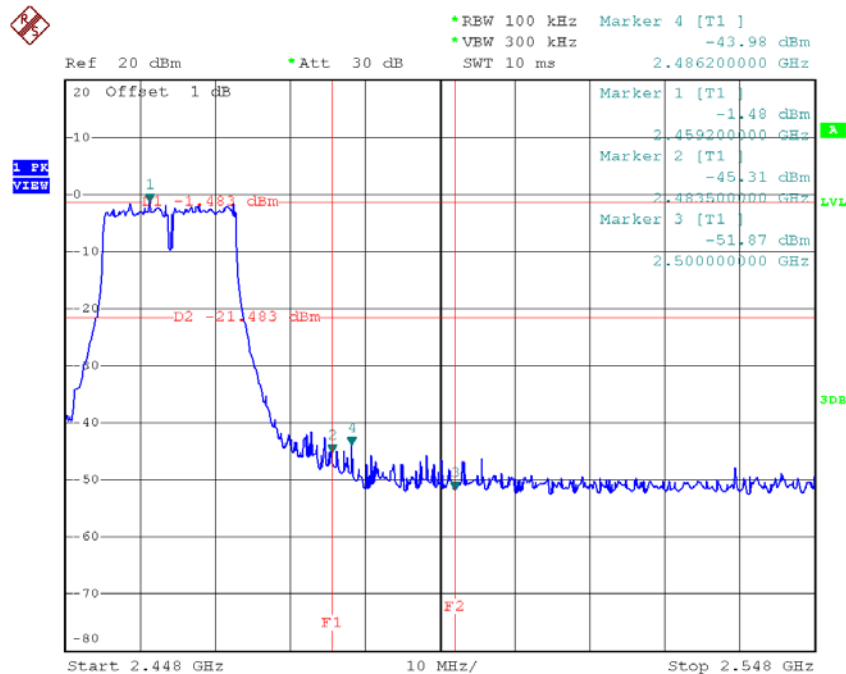
Test Mode :	TX N-20M Mode
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TX HT20 mode CH01



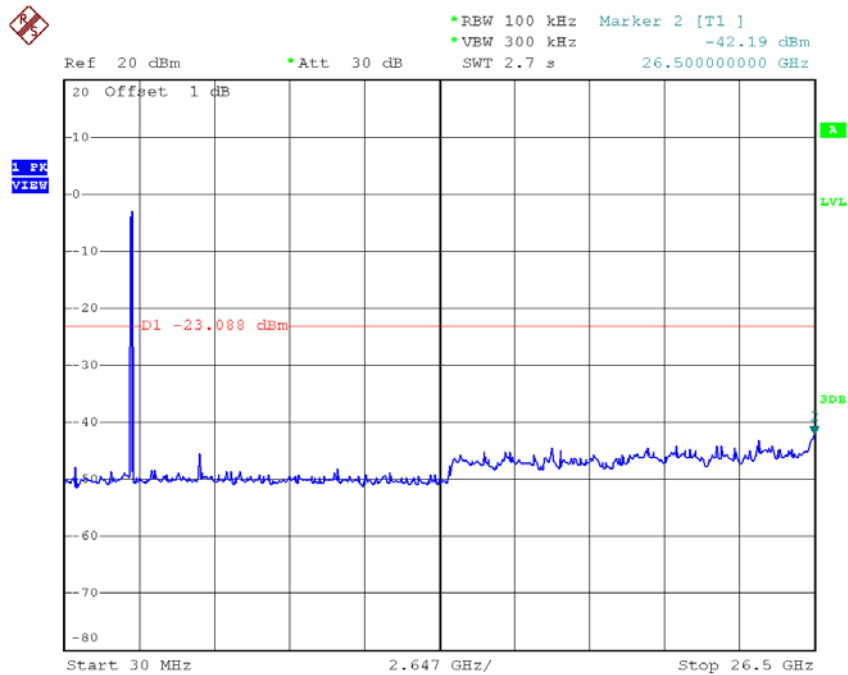
Date: 24.JUL.2015 15:26:22

TX HT20 mode CH11



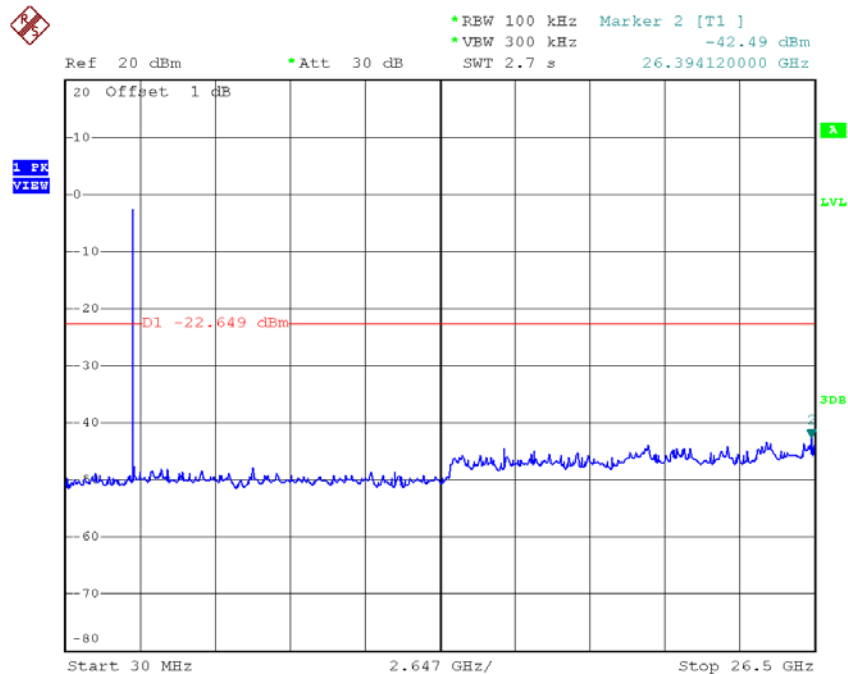
Date: 24.JUL.2015 15:31:11

TX HT20 mode CH01 (10 Harmonic of the frequency)



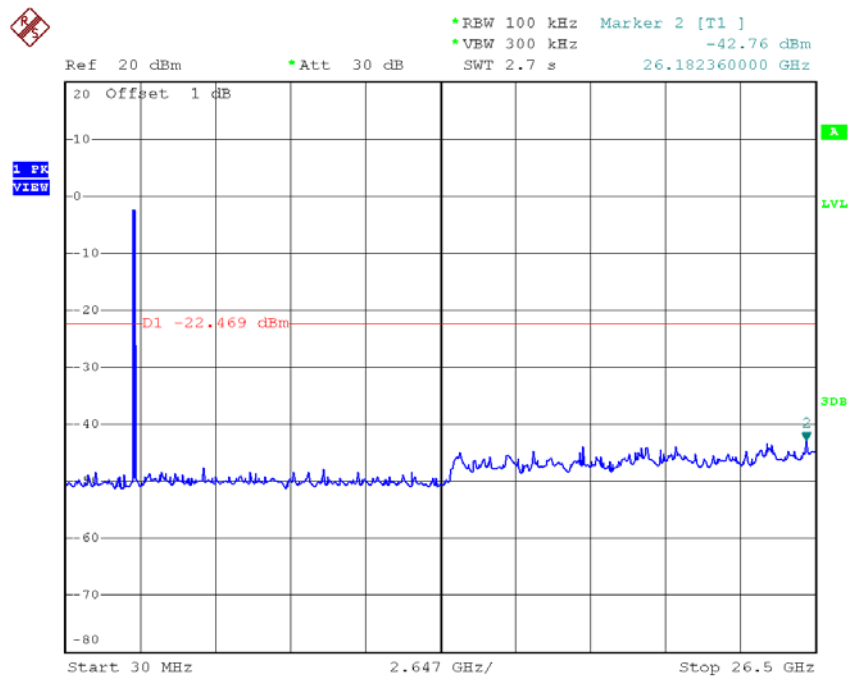
Date: 24.JUL.2015 15:26:14

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 24.JUL.2015 15:30:00

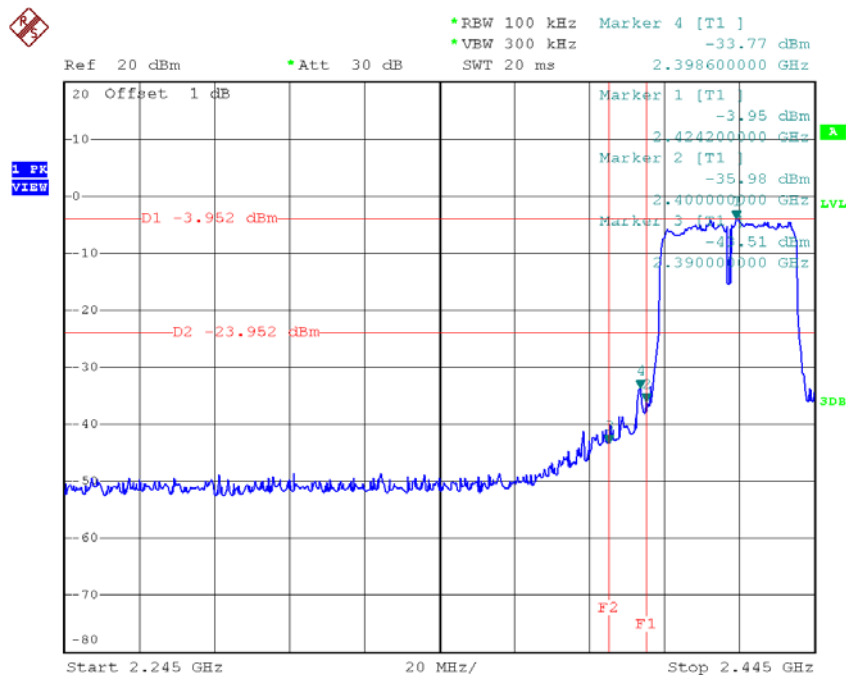
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 24.JUL.2015 15:31:03

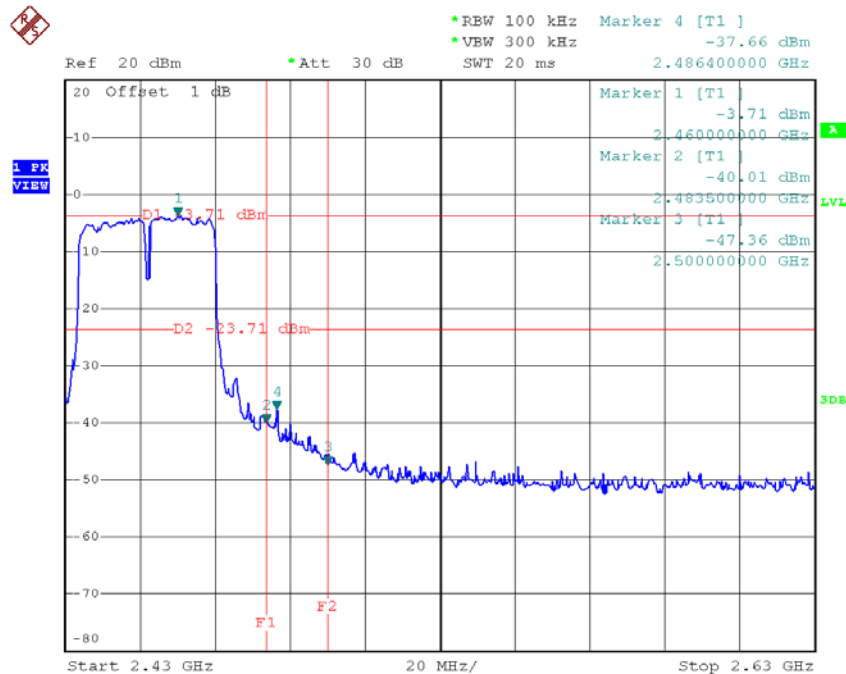
Test Mode :	TX N-40M Mode
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TX HT40 mode CH03



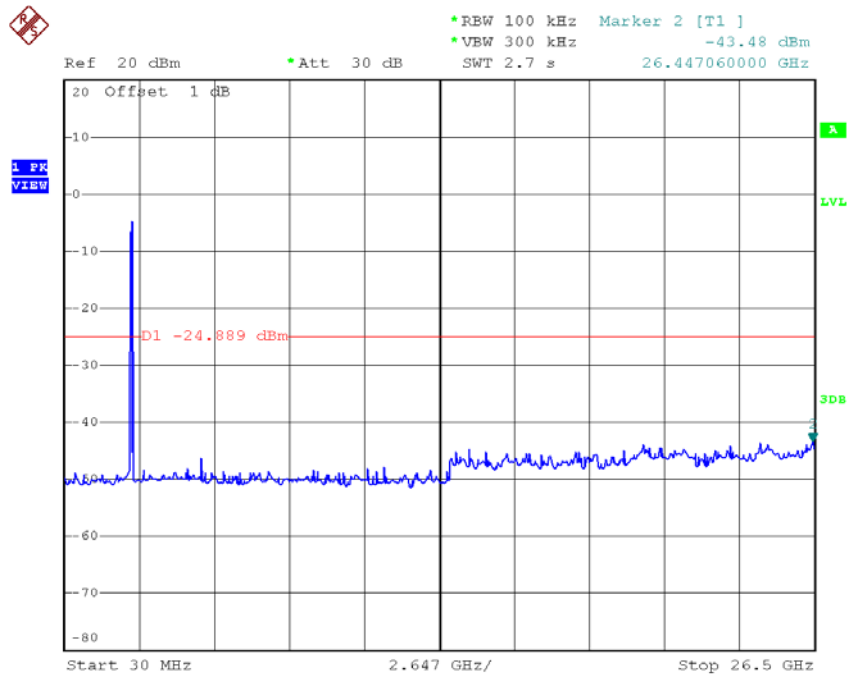
Date: 29.JUL.2015 12:56:37

TX HT40 mode CH09



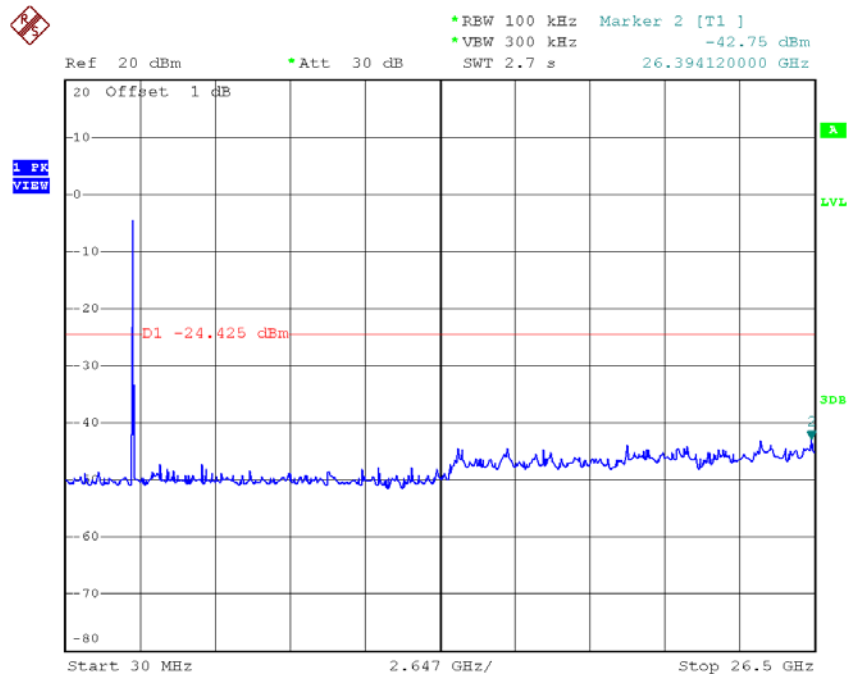
Date: 29.JUL.2015 13:01:30

TX HT40 mode CH03 (10 Harmonic of the frequency)



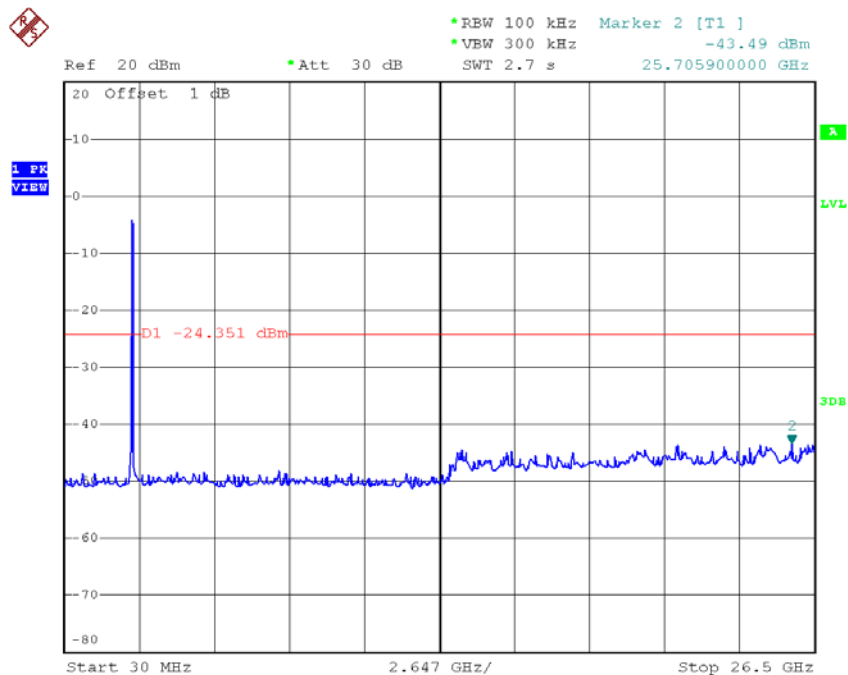
Date: 29.JUL.2015 12:56:29

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 29.JUL.2015 13:00:10

TX HT40 mode CH09 (10 Harmonic of the frequency)



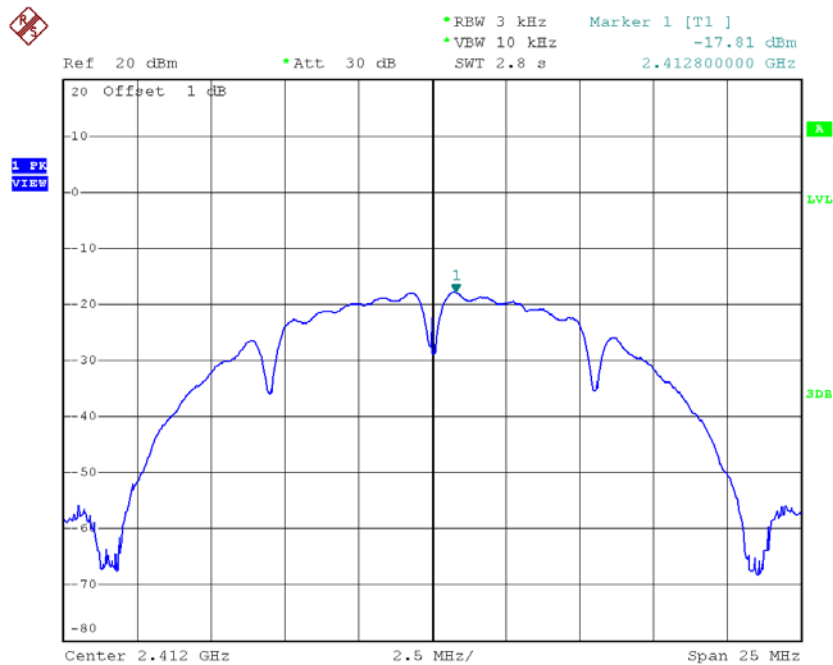
Date: 29.JUL.2015 13:01:22

ATTACHMENT H - POWER SPECTRAL DENSITY

Test Mode :TX B Mode_CH01/06/11

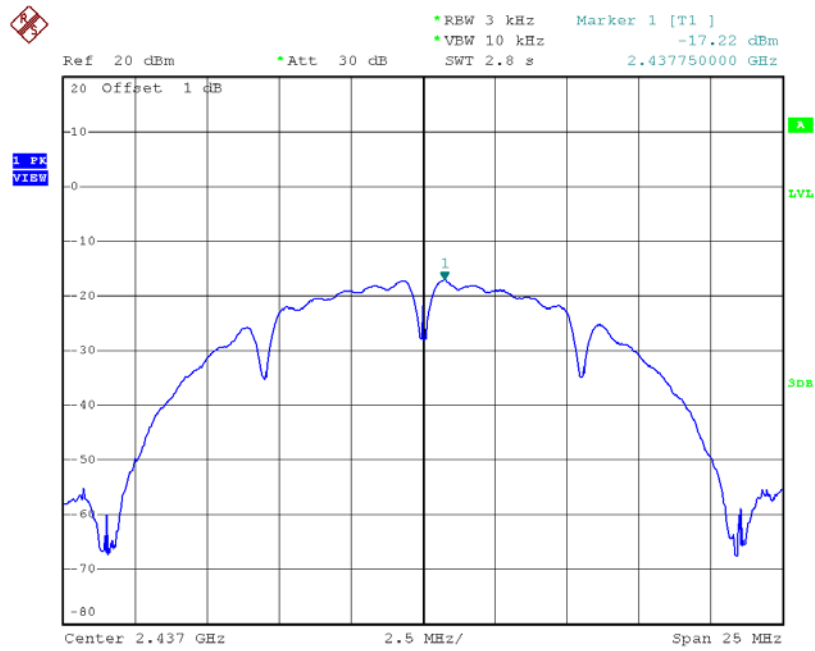
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-17.81	0.02	8.00	Complies
2437	-17.22	0.02	8.00	Complies
2462	-16.96	0.02	8.00	Complies

TX CH01



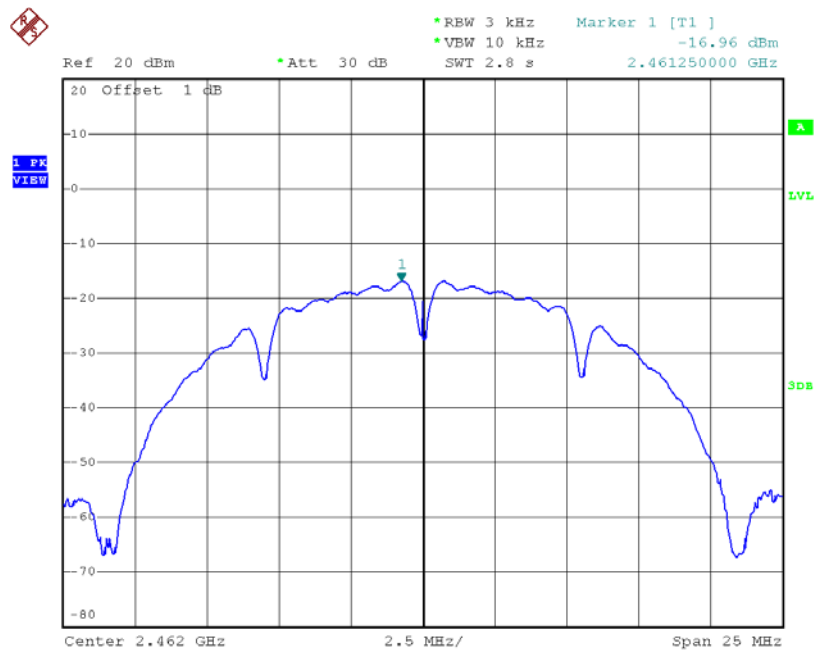
Date: 24.JUL.2015 15:06:04

TX CH06



Date: 24.JUL.2015 15:10:42

TX CH11

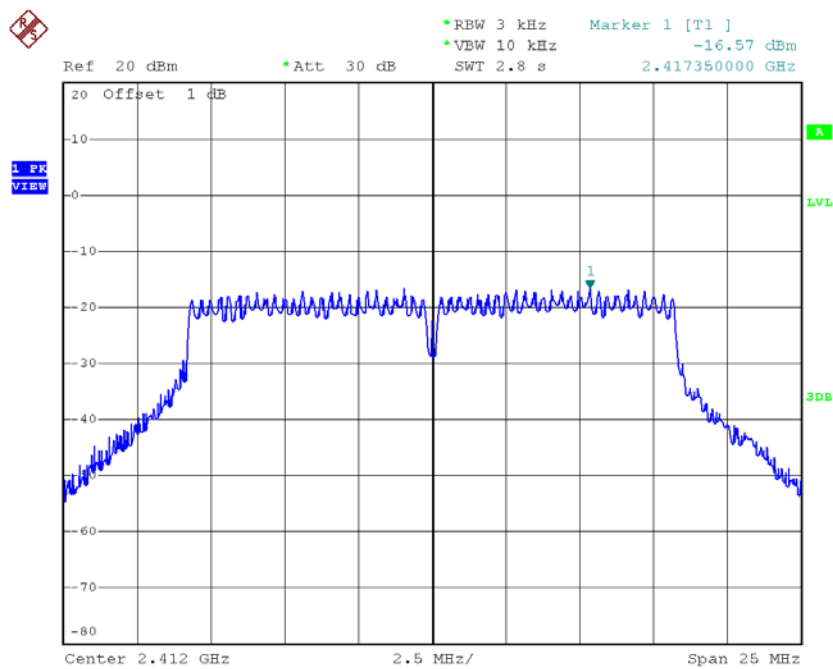


Date: 24.JUL.2015 15:13:24

Test Mode :TX G Mode_CH01/06/11

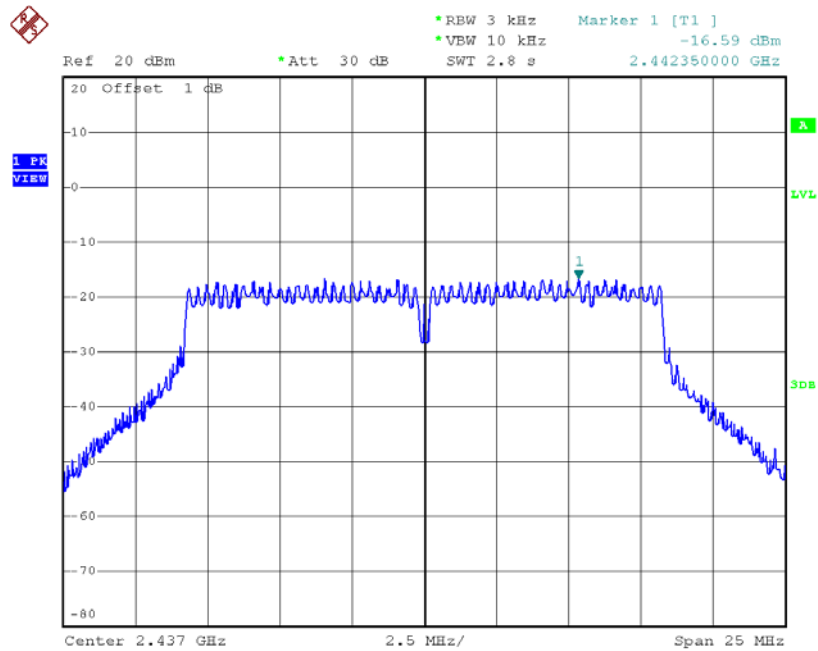
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.57	0.02	8.00	Complies
2437	-16.59	0.02	8.00	Complies
2462	-16.11	0.02	8.00	Complies

TX CH01



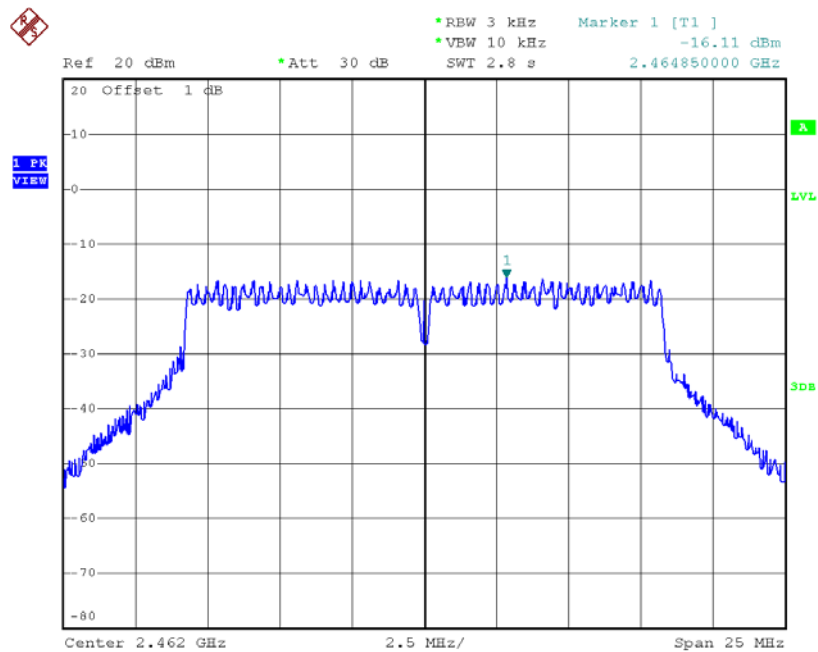
Date: 24.JUL.2015 15:15:09

TX CH06



Date: 24.JUL.2015 15:17:43

TX CH11

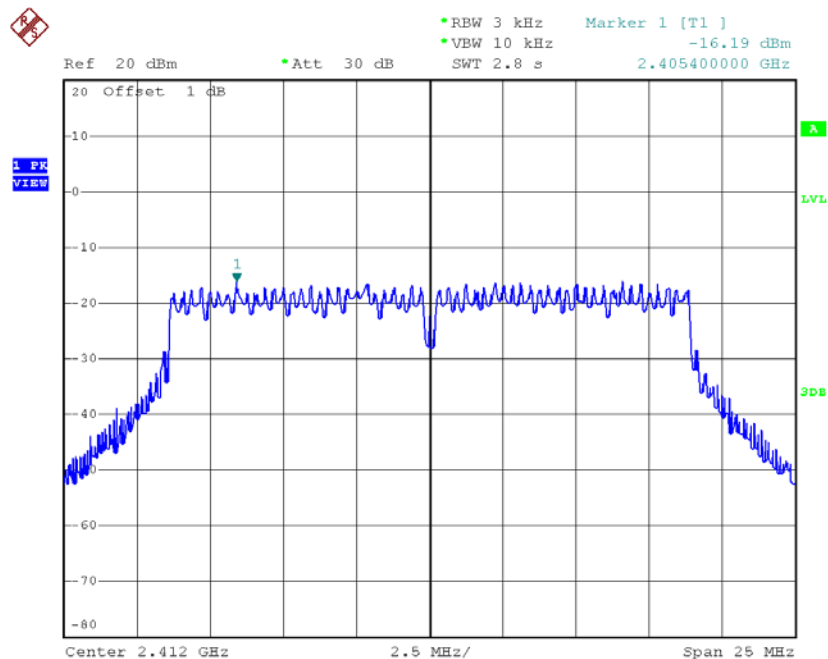


Date: 24.JUL.2015 15:18:43

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

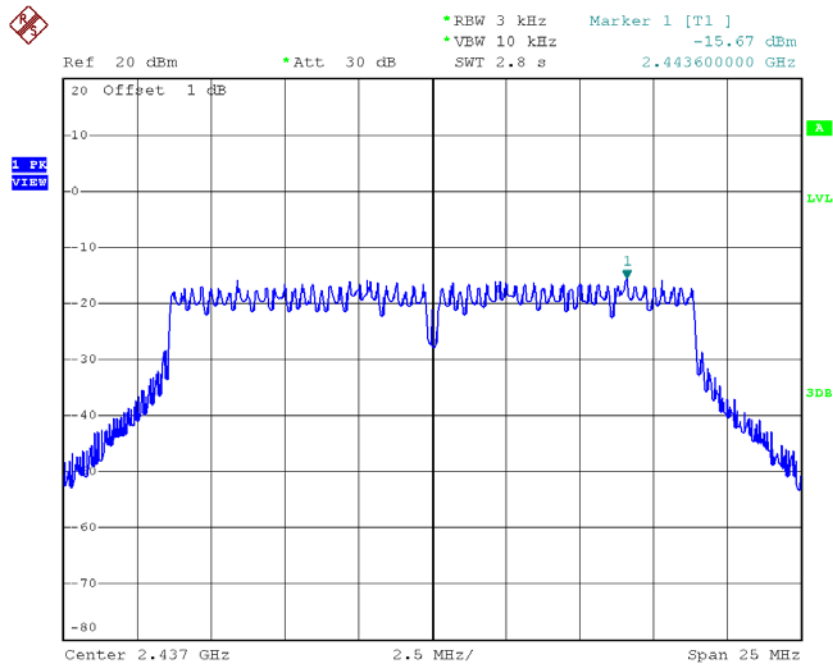
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-16.19	0.02	8.00	Complies
2437	-15.67	0.03	8.00	Complies
2462	-15.31	0.03	8.00	Complies

TX CH01



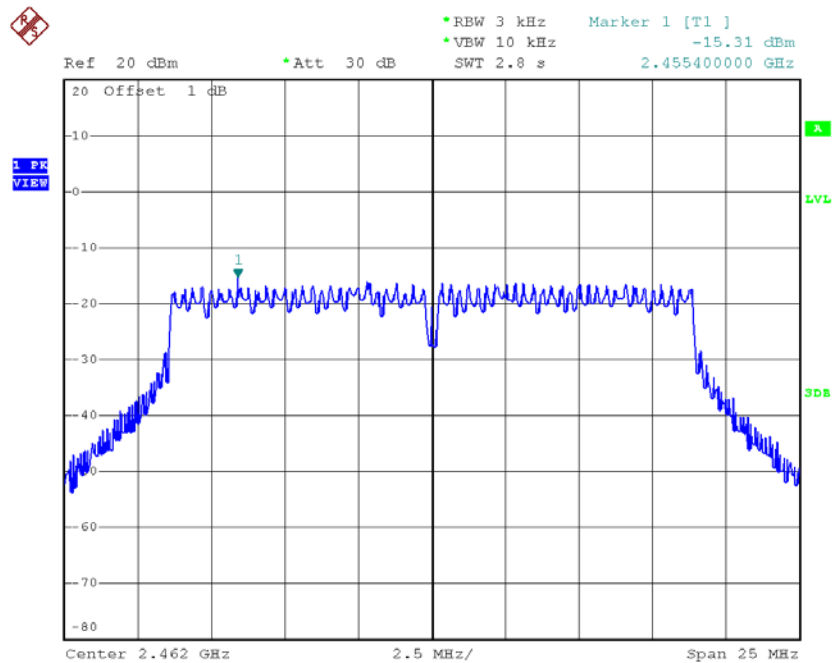
Date: 24.JUL.2015 15:26:31

TX CH06



Date: 24.JUL.2015 15:30:10

TX CH11

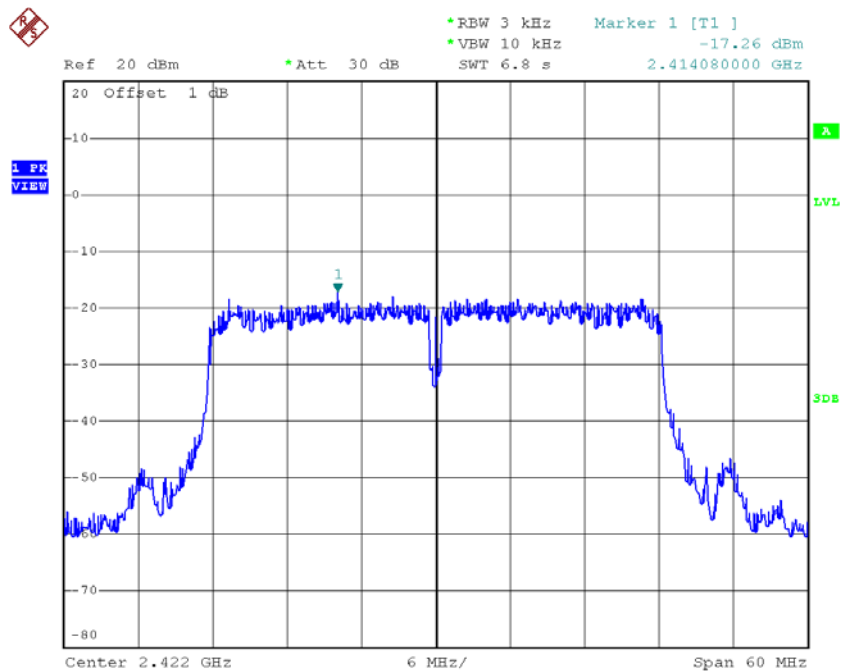


Date: 24.JUL.2015 15:31:20

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

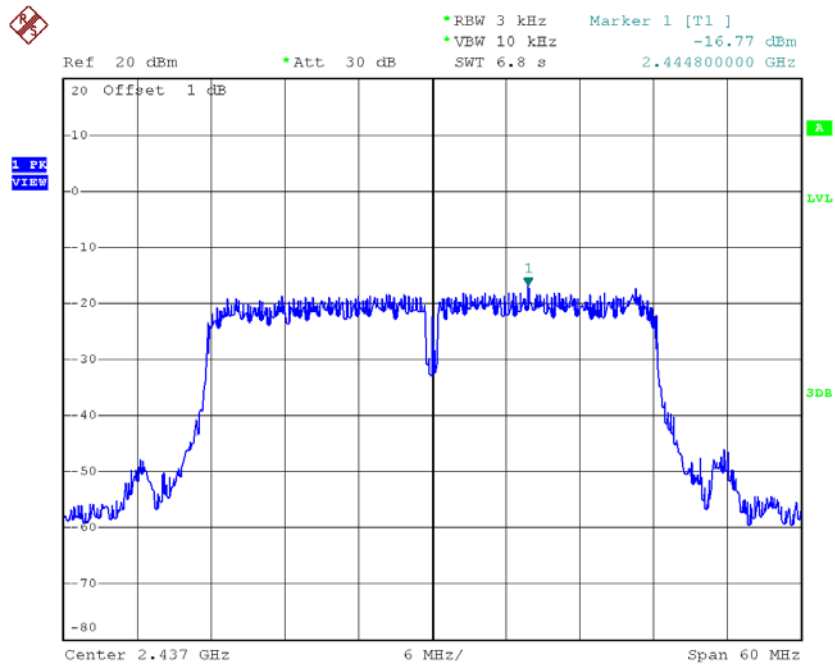
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-17.26	0.02	8.00	Complies
2437	-16.77	0.02	8.00	Complies
2452	-15.56	0.03	8.00	Complies

TX CH03



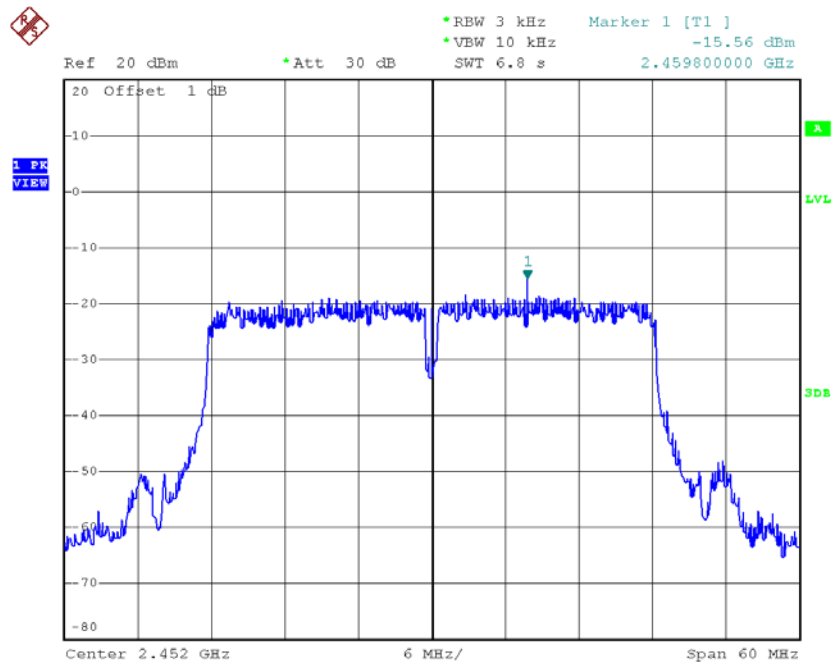
Date: 29.JUL.2015 12:56:50

TX CH06



Date: 29.JUL.2015 13:00:23

TX CH09



Date: 24.JUL.2015 15:39:23