

FCC Radio Test Report

FCC ID: KA2WR118A1

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

Project No. : 1411C008A
Equipment : Dual Band Wi-Fi AC Multi-WAN Router
Model Name : DWR-118
Applicant : D-Link Corporation
Address : No.289,Xinhu 3Rd.,Neihu District, Taipei City 11494,
Taiwan, ROC

Date of Receipt : Sep. 02, 2015
Date of Test : Sep. 02, 2015~ Oct. 28, 2015
Issued Date : Oct. 29, 2015
Tested by : BTL Inc.

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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	12
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	13
3.5 DESCRIPTION OF SUPPORT UNITS	13
4 . EMC EMISSION TEST	14
4.1 CONDUCTED EMISSION MEASUREMENT	14
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	14
4.1.2 TEST PROCEDURE	14
4.1.3 DEVIATION FROM TEST STANDARD	14
4.1.4 TEST SETUP	15
4.1.5 EUT OPERATING CONDITIONS	15
4.1.6 EUT TEST CONDITIONS	15
4.1.7 TEST RESULTS	15
4.2 RADIATED EMISSION MEASUREMENT	16
4.2.1 RADIATED EMISSION LIMITS	16
4.2.2 TEST PROCEDURE	17
4.2.3 DEVIATION FROM TEST STANDARD	17
4.2.4 TEST SETUP	18
4.2.5 EUT OPERATING CONDITIONS	19
4.2.6 EUT TEST CONDITIONS	19
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	20
4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)	20
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)	20
5 . BANDWIDTH TEST	21
5.1 APPLIED PROCEDURES	21
5.1.1 TEST PROCEDURE	21
5.1.2 DEVIATION FROM STANDARD	21
5.1.3 TEST SETUP	21
5.1.4 EUT OPERATION CONDITIONS	21
5.1.5 EUT TEST CONDITIONS	21
5.1.6 TEST RESULTS	21
6 . MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST	22

Table of Contents	Page
6.1 APPLIED PROCEDURES / LIMIT	22
6.1.1 TEST PROCEDURE	22
6.1.2 DEVIATION FROM STANDARD	22
6.1.3 TEST SETUP	22
6.1.4 EUT OPERATION CONDITIONS	22
6.1.5 EUT TEST CONDITIONS	22
6.1.6 TEST RESULTS	22
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	23
7.1 APPLIED PROCEDURES / LIMIT	23
7.1.1 TEST PROCEDURE	23
7.1.2 DEVIATION FROM STANDARD	23
7.1.3 TEST SETUP	23
7.1.4 EUT OPERATION CONDITIONS	23
7.1.5 EUT TEST CONDITIONS	23
7.1.6 TEST RESULTS	23
8 . POWER SPECTRAL DENSITY TEST	24
8.1 APPLIED PROCEDURES / LIMIT	24
8.1.1 TEST PROCEDURE	24
8.1.2 DEVIATION FROM STANDARD	24
8.1.3 TEST SETUP	24
8.1.4 EUT OPERATION CONDITIONS	24
8.1.5 EUT TEST CONDITIONS	24
8.1.6 TEST RESULTS	24
9 . MEASUREMENT INSTRUMENTS LIST	25
10 . EUT TEST PHOTO	27
ATTACHMENT A - CONDUCTED EMISSION	31
ATTACHMENT B - RADIATED EMISSION (9KHZ TO 30MHZ)	34
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	36
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)	43
ATTACHMENT E - BANDWIDTH	92
ATTACHMENT F – MAXIMUM PEAK CONDUCTED OUTPUT POWER	101
ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION	105
ATTACHMENT H - POWER SPECTRAL DENSITY	130

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1411C008A	Original Issue.	Oct. 29, 2015

1. CERTIFICATION

Equipment : Dual Band Wi-Fi AC Multi-WAN Router
Brand Name : D-LINK
Model Name : DWR-118
Applicant : D-Link Corporation
Manufacturer : D-Link Corporation
Address : No.289,Xinhu 3Rd.,Neihu District, Taipei City 11494, Taiwan, ROC
Factory : SHENZHEN ZOWEE TECHNOLOGY CO.,LTD. BAOAN SUBSIDIARY CO.
Address : ZOWEE Factory ,Tongfuyu Industrial Zone, Songgang, Baoan District,
Shenzhen 518105 P.R.China
Date of Test : Sep. 02, 2015~ Oct. 28, 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-1-1411C008A) 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)
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	Dual Band Wi-Fi AC Multi-WAN Router	
Brand Name	D-LINK	
Model Name	DWR-118	
Model Difference	N/A	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	Output Power (Max.)	802.11b: 18.02dBm 802.11g: 21.92dBm 802.11n(20MHz): 21.29dBm 802.11n(40MHz): 23.13dBm
Power Source	DC voltage supplied from AC/DC adapter. Brand/Model: D-Link/AMS115-1201500FU	
Power Rating	I/P: 100-240V~50/60Hz 0.8A Max O/P: 12V --- 1.5A	

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	N/A	N/A	Dipole	N/A	5.00	N/A
2	N/A	N/A	Dipole	N/A	4.00	N/A

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R). All transmit signals are completely uncorrelated, then, Direction gain = G_{ANT} , that is Directional gain=5.00.
- (2) ANT 1 is the most case for 1TX.

4.

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

3.2 DESCRIPTION OF TEST MODES

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

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

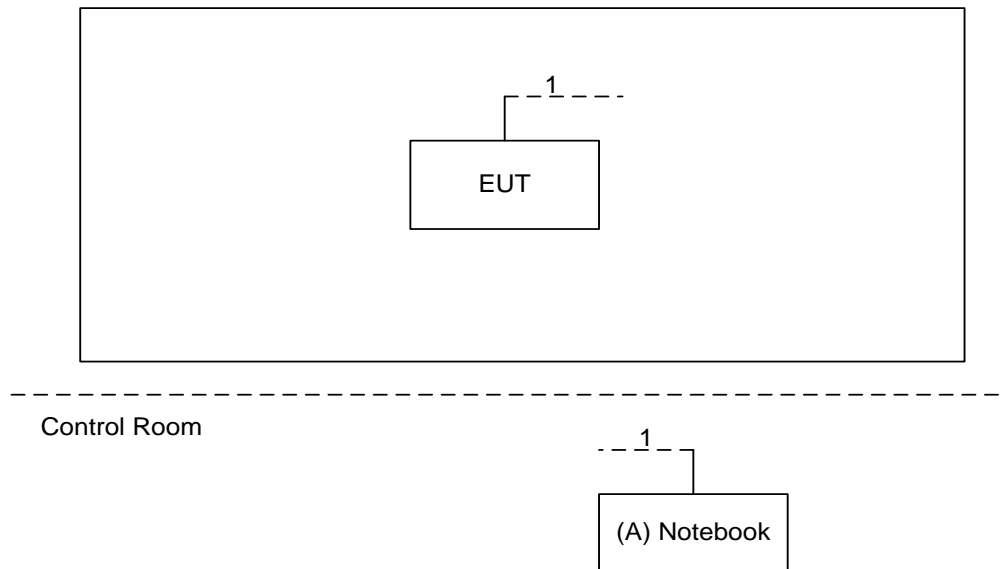
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

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	MT7620QA		
Frequency (MHz)	2412	2437	2462
802.11b	1C	1D	23
802.11g	1B	20	23
802.11n (20MHz)	13	15	1B
Frequency	2422	2437	2452
802.11n (40MHz)	16	12	23

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
A	Notebook	Lenovo	H2510	DOC	SS07999198	

Item	Shielded Type	Ferrite Core	Length	Note
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 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

The following table is the setting of the receiver

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

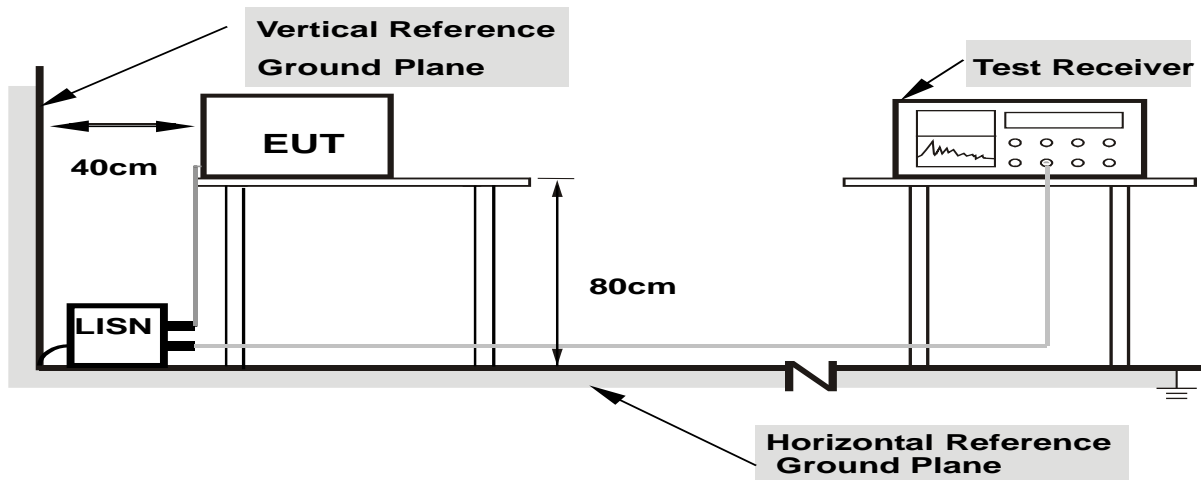
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

Temperature: 27°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

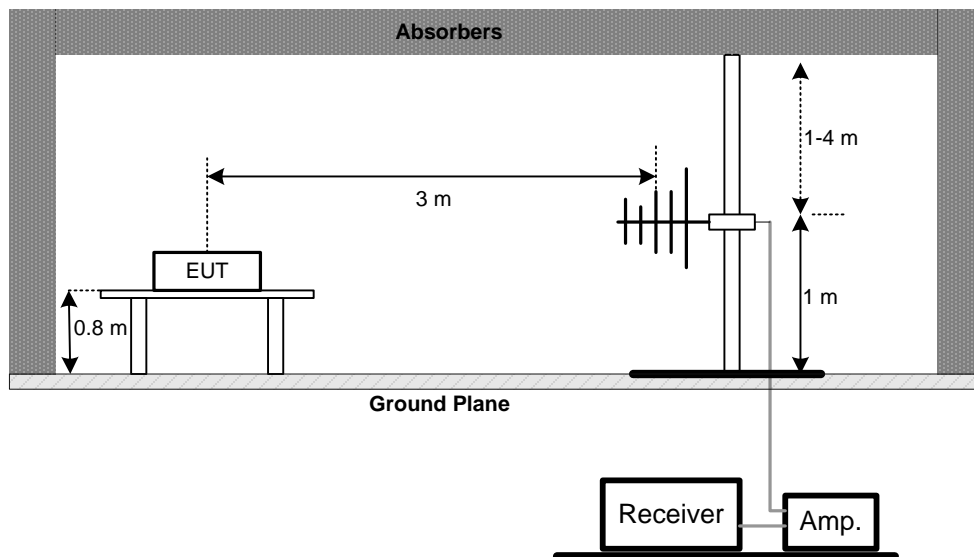
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

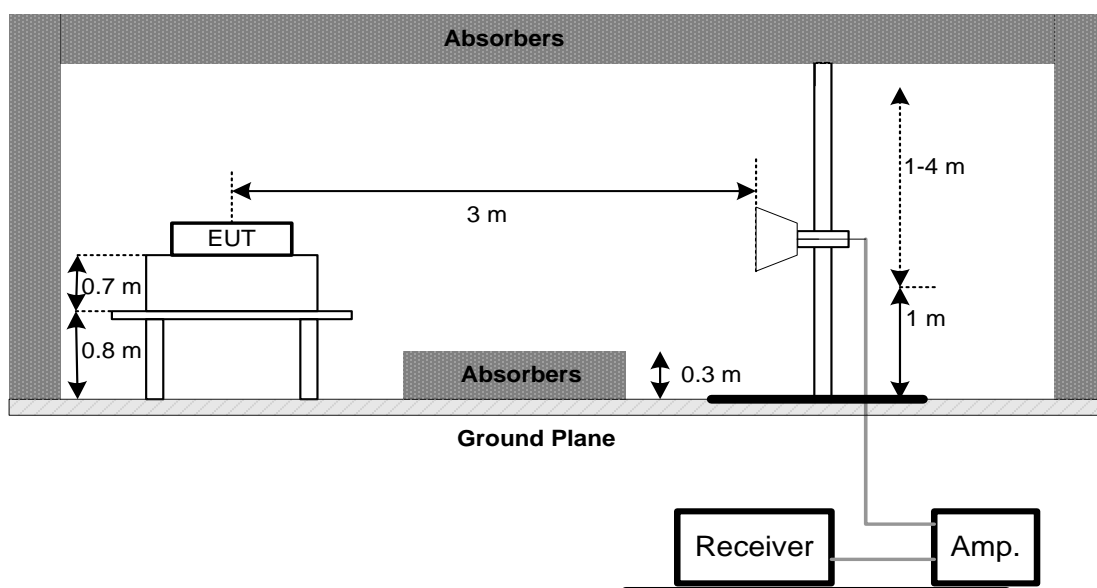
No deviation

4.2.4 TEST SETUP

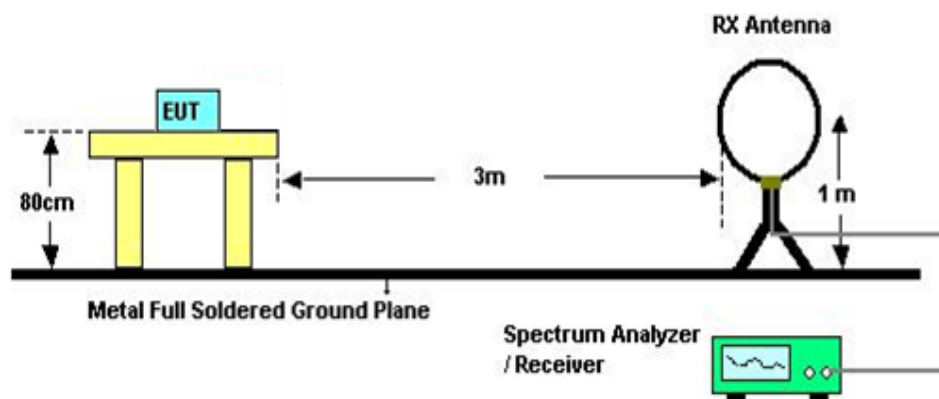
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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: 27°C Relative Humidity: 58% 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: 27°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 v03r04.

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: 27°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: 27°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: 27°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	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. 02, 2015
9	Test Cable	emci	EMC104-SM-S M-10000(1GHz -26.5GHz)	C-68	Jun. 28, 2016
10	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
11	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016

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

Peak Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	power Meter	ANRITSU	ML2495A	1128009	Mar. 28, 2016
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 28, 2016

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

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

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

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

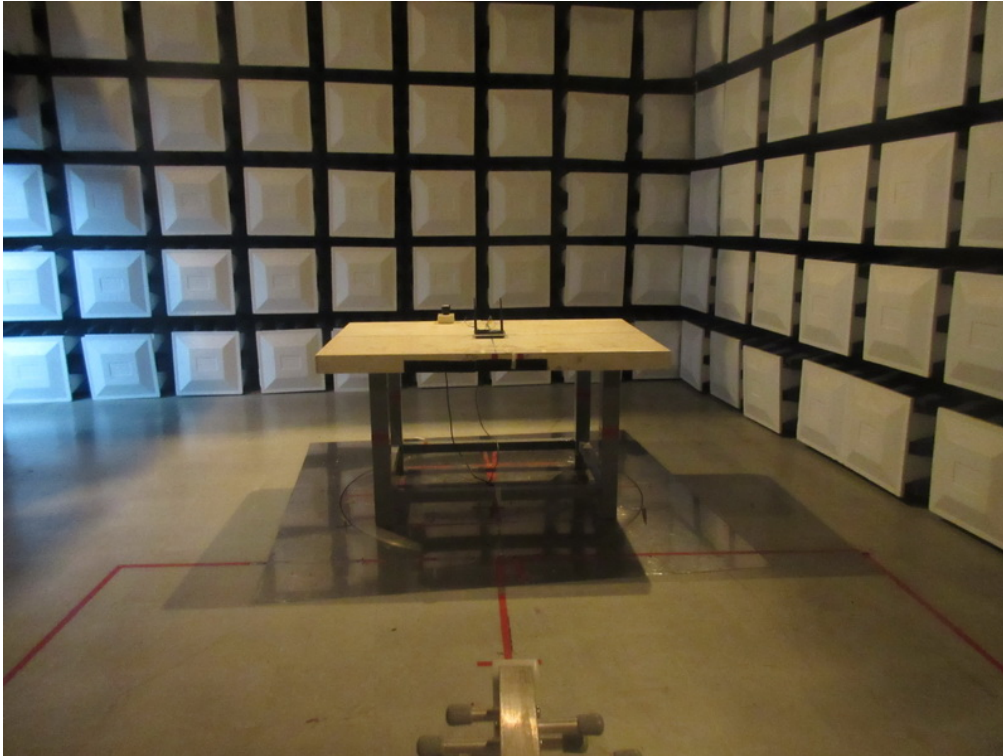
Radiated Measurement Photos

9KHz to 30MHz



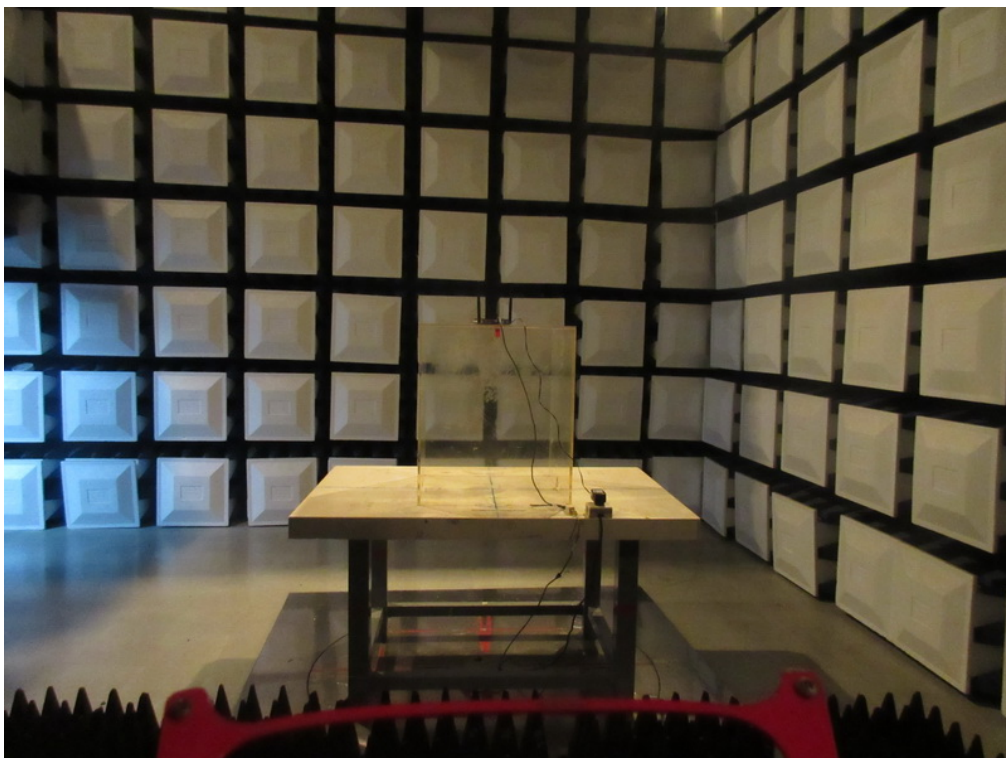
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

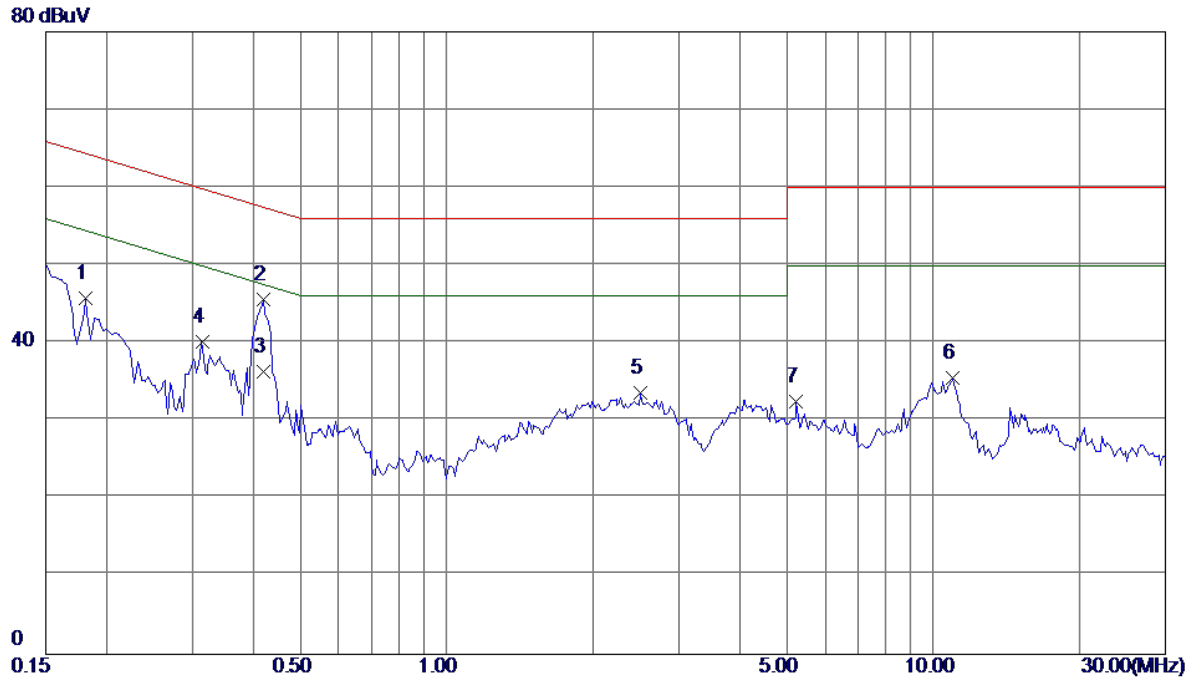
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

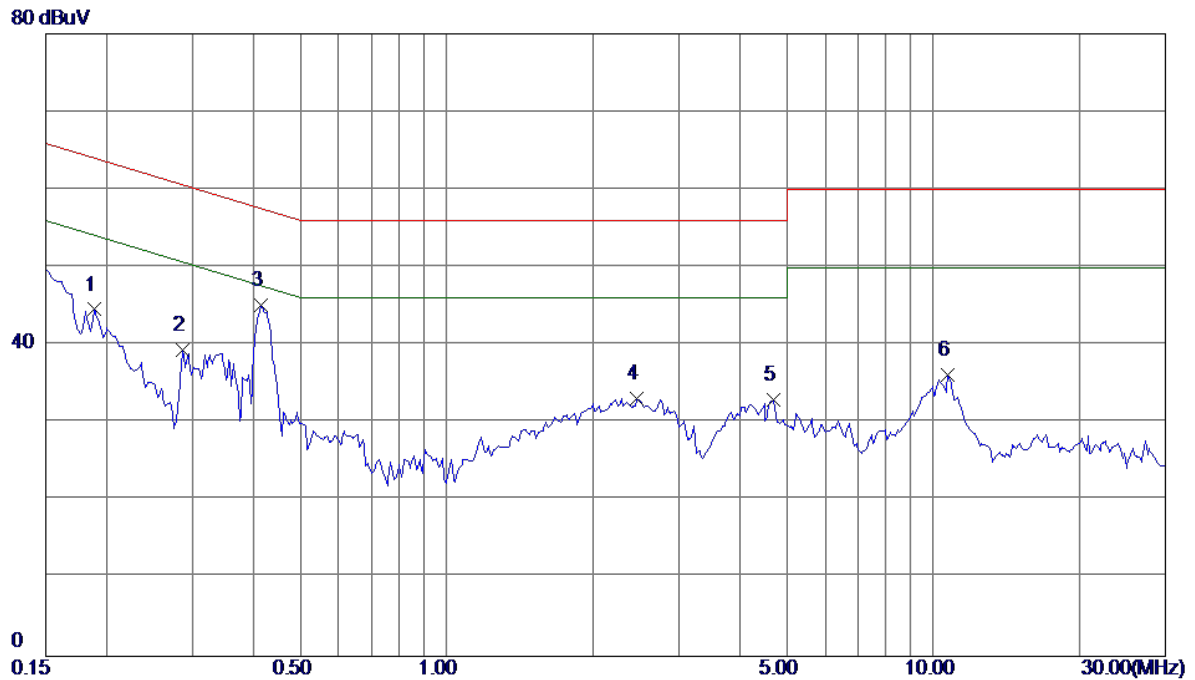
Line



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	0.1812	36.19	9.56	45.75	64.43	-18.68	Peak	
2	0.4195	35.87	9.68	45.55	57.46	-11.91	Peak	
3	0.4195	26.60	9.68	36.28	47.46	-11.18	AVG	
4	0.3141	30.54	9.64	40.18	59.86	-19.68	Peak	
5	2.4977	23.53	10.00	33.53	56.00	-22.47	Peak	
6	10.9647	25.65	9.87	35.52	60.00	-24.48	Peak	
7	5.2266	22.46	9.98	32.44	60.00	-27.56	Peak	

Test Mode : Normal Link

Neutral



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	0.1891	35.07	9.49	44.56	64.08	-19.52	Peak	
2	0.2867	29.82	9.52	39.34	60.62	-21.28	Peak	
3	0.4156	35.57	9.53	45.10	57.54	-12.44	Peak	
4	2.4547	23.41	9.76	33.17	56.00	-22.83	Peak	
5	4.6953	23.10	9.91	33.01	56.00	-22.99	Peak	
6	10.7344	26.37	9.86	36.23	60.00	-23.77	Peak	

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

Test Mode:	TX B MODE CHANNEL 01
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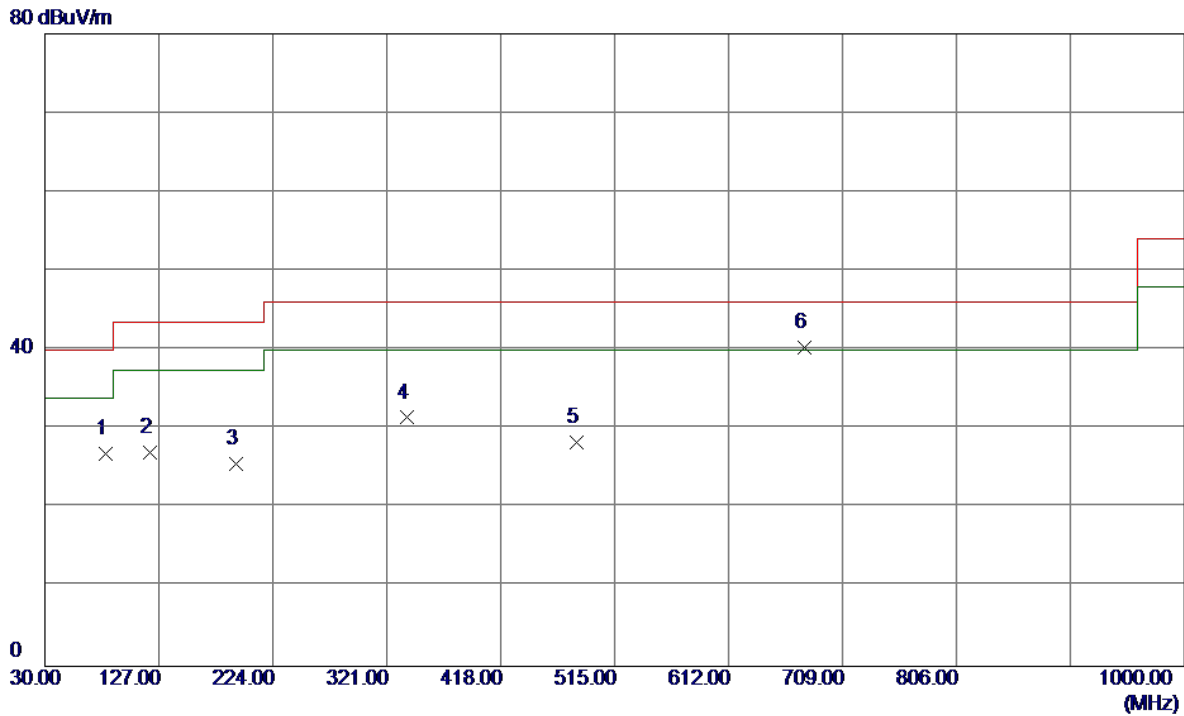
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0164	0°	13.51	24.5280	38.0380	123.3073	-85.2693	AVG
0.0164	0°	14.37	24.5280	38.8980	143.3073	-104.4093	PEAK
0.0241	0°	6.01	24.0403	30.0503	119.9639	-89.9136	AVG
0.0241	0°	8.32	24.0403	32.3603	139.9639	-107.6036	PEAK
0.0393	0°	3.27	23.0777	26.3477	115.7164	-89.3687	AVG
0.0393	0°	5.09	23.0777	28.1677	135.7164	-107.5487	PEAK
0.0538	0°	1.84	22.3240	24.1640	112.9886	-88.8246	AVG
0.0538	0°	2.65	22.3240	24.9740	132.9886	-108.0146	PEAK
0.54352	0°	19.46	19.9393	39.3993	72.8999	-33.5007	QP
1.9356	0°	23.44	19.5064	42.9464	69.5400	-26.5936	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0089	90°	13.62	24.3000	37.9200	128.6164	-90.6964	AVG
0.0089	90°	14.37	24.3000	38.6700	148.6164	-109.9464	PEAK
0.0216	90°	7.34	24.1987	31.5387	120.9151	-89.3765	AVG
0.0216	90°	8.41	24.1987	32.6087	140.9151	-108.3065	PEAK
0.0468	90°	5.08	22.6027	27.6827	114.1993	-86.5166	AVG
0.0468	90°	6.29	22.6027	28.8927	134.1993	-105.3066	PEAK
0.0573	90°	1.44	22.2540	23.6940	112.4411	-88.7471	AVG
0.0573	90°	2.69	22.2540	24.9440	132.4411	-107.4971	PEAK
0.6391	90°	22.19	20.2451	42.4351	71.4928	-29.0577	QP
2.0384	90°	24.64	19.4770	44.1170	69.5400	-25.4230	QP

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

Test Mode: TX B MODE CHANNEL 01

Vertical

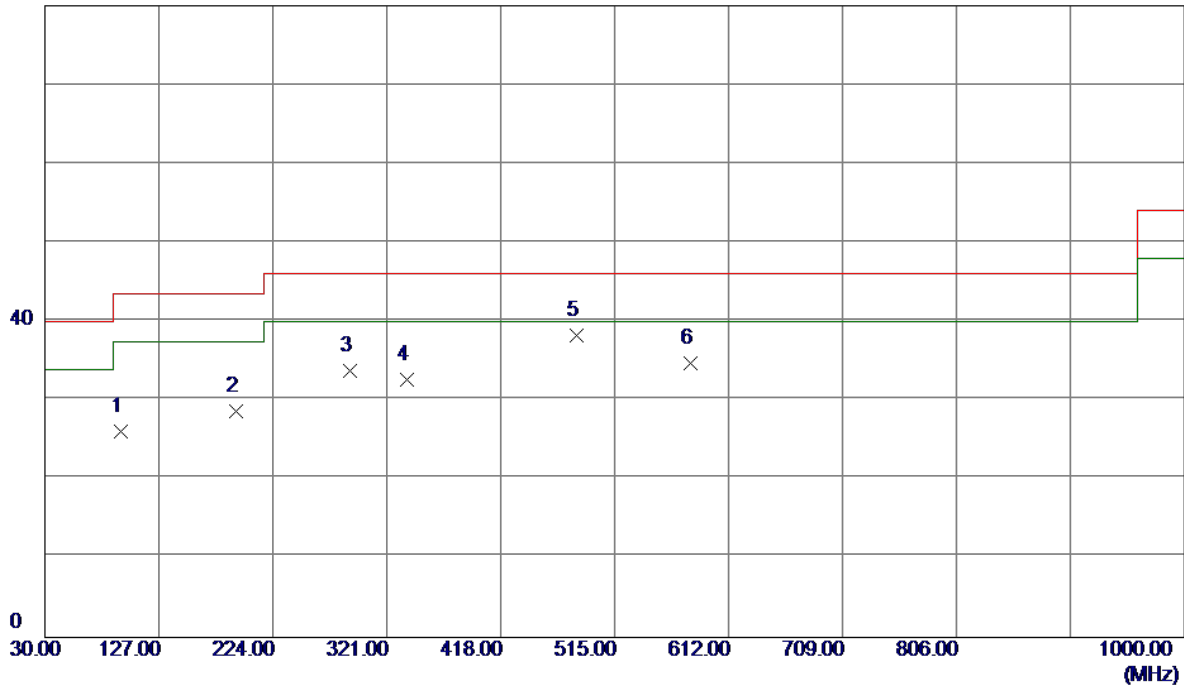


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	81.4100	42.67	-15.76	26.91	40.00	-13.09	Peak	
2	119.2400	39.63	-12.65	26.98	43.50	-16.52	Peak	
3	192.9600	38.78	-13.16	25.62	43.50	-17.88	Peak	
4	338.4600	41.28	-9.84	31.44	46.00	-14.56	Peak	
5	482.9900	35.23	-6.88	28.35	46.00	-17.65	Peak	
6	676.9900	41.85	-1.55	40.30	46.00	-5.70	Peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

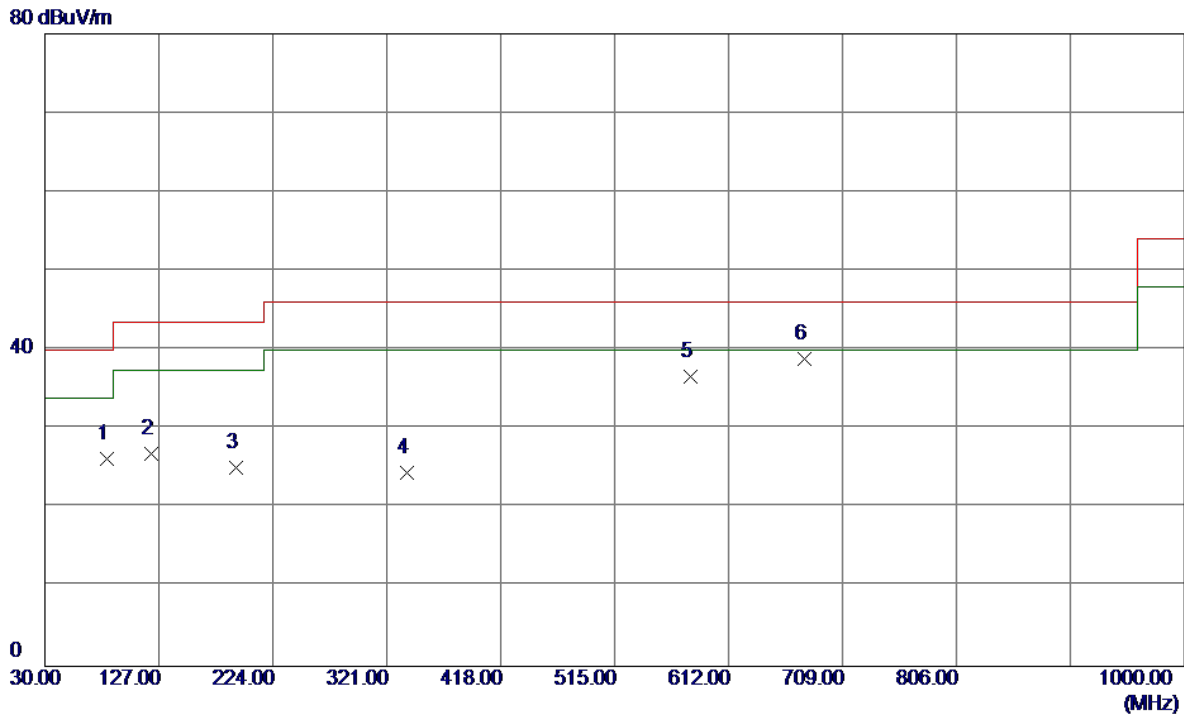
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	94.9900	41.60	-15.51	26.09	43.50	-17.41	Peak	
2	192.9600	41.73	-13.16	28.57	43.50	-14.93	Peak	
3	289.9600	43.61	-9.83	33.78	46.00	-12.22	Peak	
4	338.4600	42.54	-9.84	32.70	46.00	-13.30	Peak	
5	482.9900	45.19	-6.88	38.31	46.00	-7.69	Peak	
6	579.9900	39.39	-4.63	34.76	46.00	-11.24	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

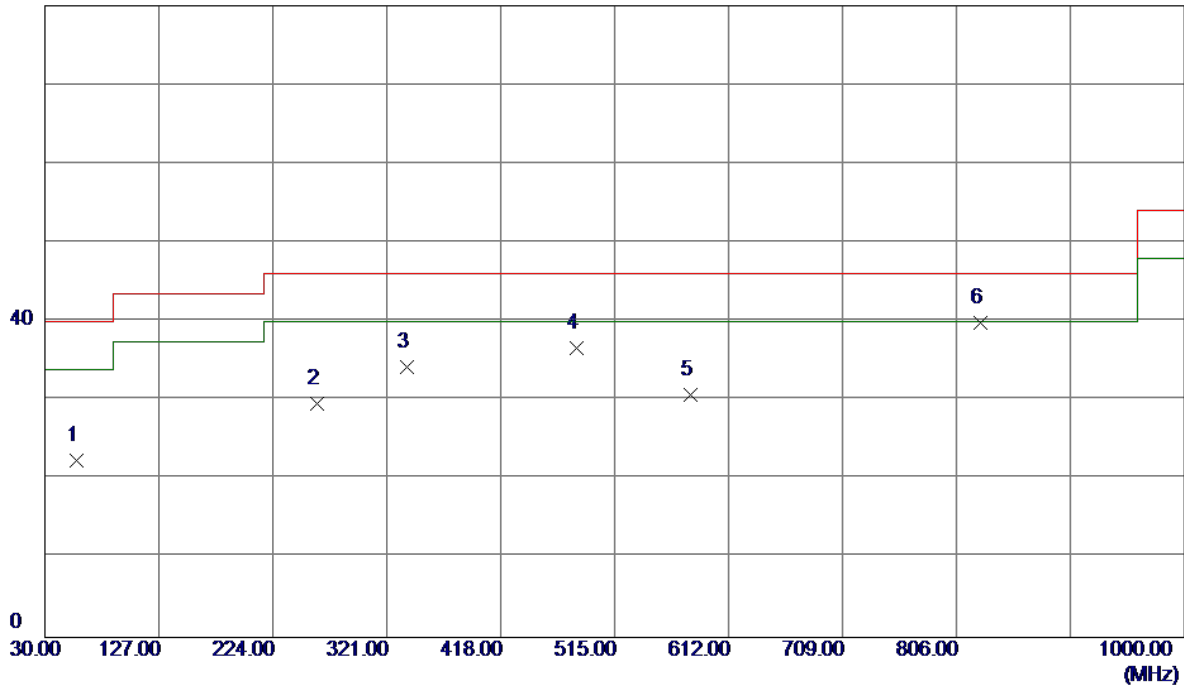


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	82.3800	41.96	-15.79	26.17	40.00	-13.83	Peak	
2	120.2100	39.44	-12.54	26.90	43.50	-16.60	Peak	
3	192.9600	38.21	-13.16	25.05	43.50	-18.45	Peak	
4	338.4600	34.33	-9.84	24.49	46.00	-21.51	Peak	
5	579.9900	41.32	-4.63	36.69	46.00	-9.31	Peak	
6	676.9900	40.42	-1.55	38.87	46.00	-7.13	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

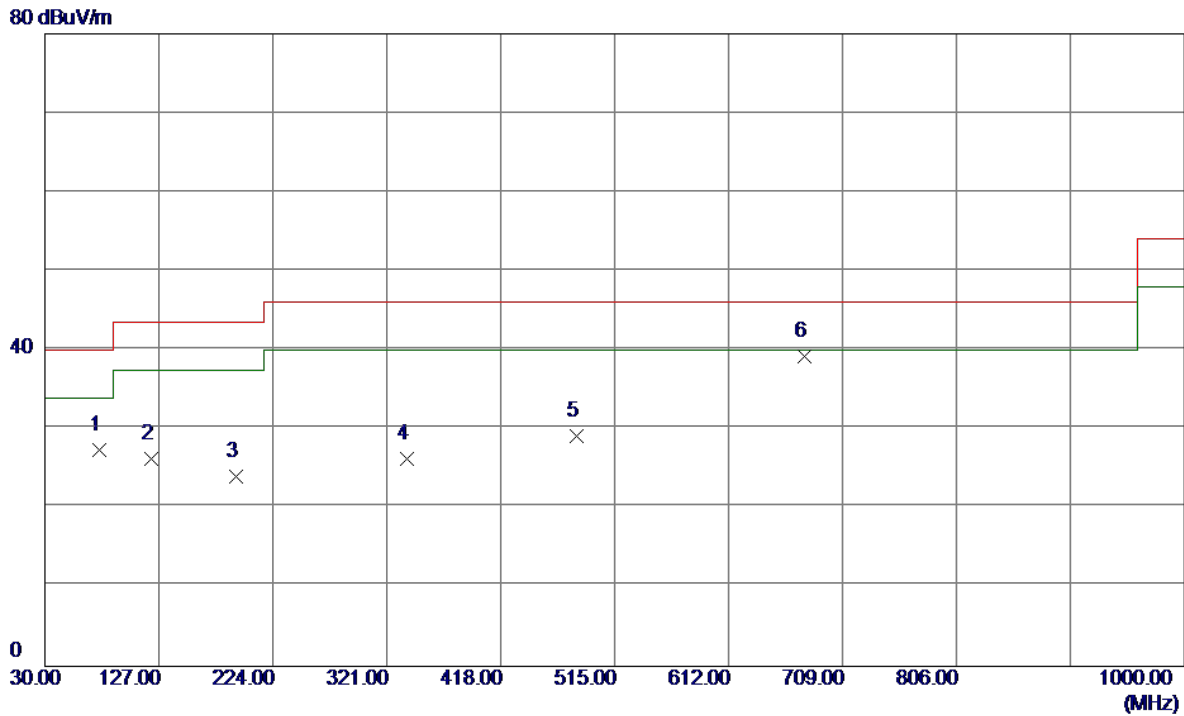
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	57.1600	35.48	-13.02	22.46	40.00	-17.54	Peak	
2	261.8299	42.09	-12.48	29.61	46.00	-16.39	Peak	
3	338.4600	44.02	-9.84	34.18	46.00	-11.82	Peak	
4	482.9900	43.52	-6.88	36.64	46.00	-9.36	Peak	
5	579.9900	35.35	-4.63	30.72	46.00	-15.28	Peak	
6	826.3700	39.75	0.14	39.89	46.00	-6.11	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

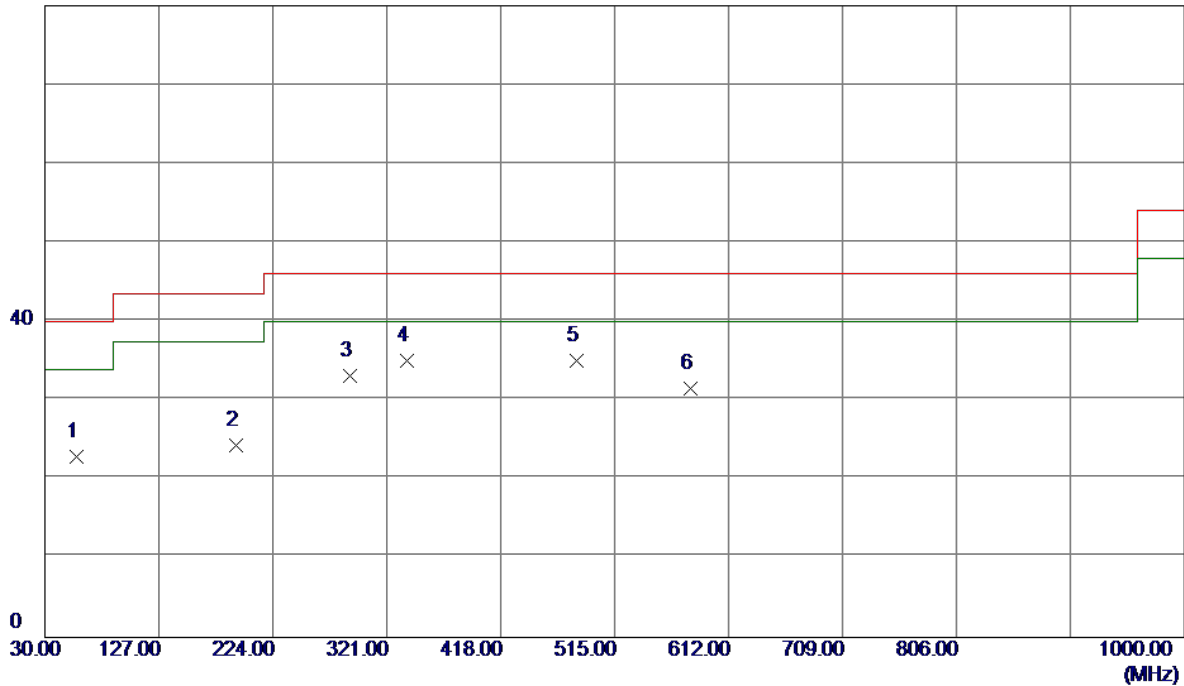


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	76.5600	42.77	-15.39	27.38	40.00	-12.62	Peak	
2	120.2100	38.75	-12.54	26.21	43.50	-17.29	Peak	
3	192.9600	37.11	-13.16	23.95	43.50	-19.55	Peak	
4	338.4600	36.11	-9.84	26.27	46.00	-19.73	Peak	
5	482.9900	36.04	-6.88	29.16	46.00	-16.84	Peak	
6	676.9900	40.82	-1.55	39.27	46.00	-6.73	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

80 dBuV/m

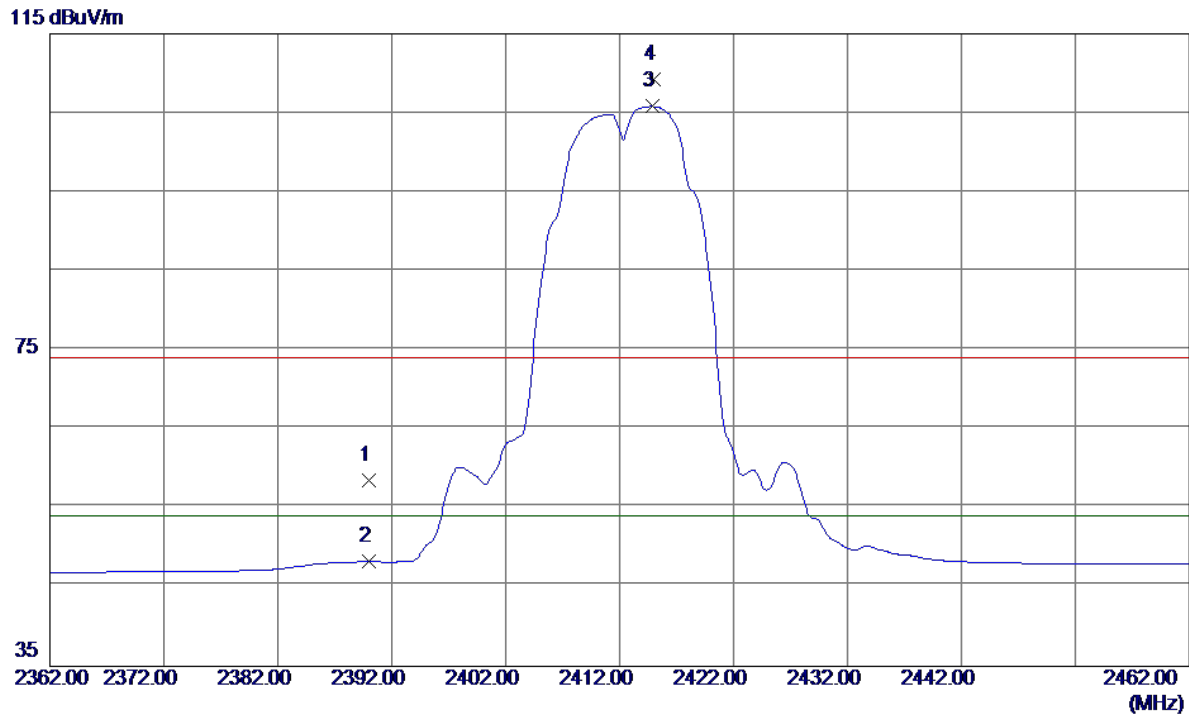


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	57.1600	35.84	-13.02	22.82	40.00	-17.18	Peak	
2	192.9600	37.41	-13.16	24.25	43.50	-19.25	Peak	
3	289.9600	42.91	-9.83	33.08	46.00	-12.92	Peak	
4	338.4600	44.89	-9.84	35.05	46.00	-10.95	Peak	
5	482.9900	41.92	-6.88	35.04	46.00	-10.96	Peak	
6	579.9900	36.08	-4.63	31.45	46.00	-14.55	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

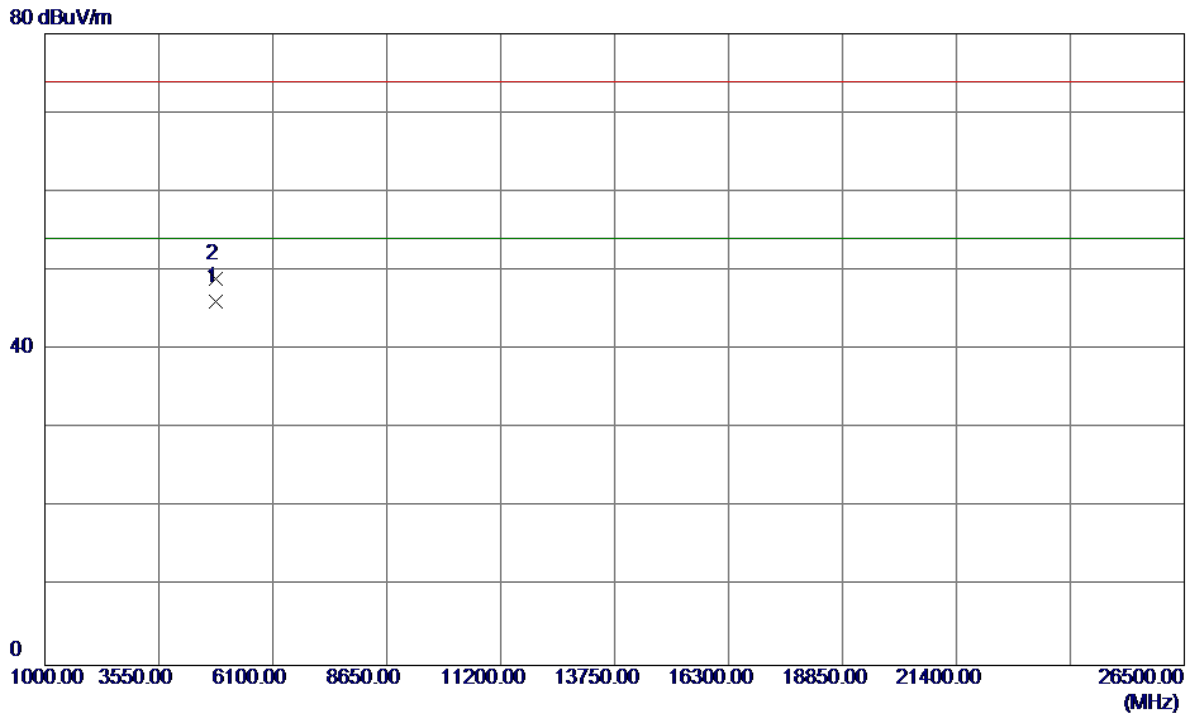
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	24.25	34.23	58.48	74.00	-15.52	Peak	
2	2390.0000	14.09	34.23	48.32	54.00	-5.68	AVG	
3	2414.9000	71.44	34.38	105.82	54.00	51.82	AVG	NO LIMIT
4	2415.0000	74.81	34.38	109.19	74.00	35.19	Peak	NO LIMIT

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

Vertical

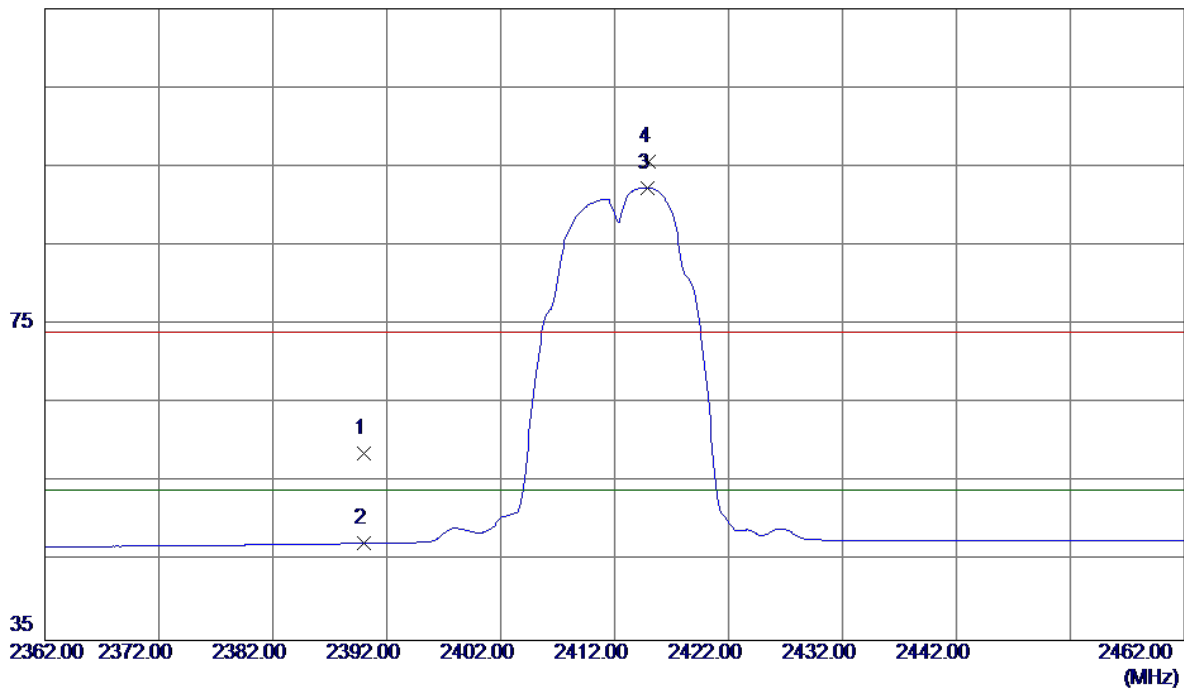


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.6600	43.06	3.00	46.06	54.00	-7.94	AVG	
2	4824.6800	45.97	3.00	48.97	74.00	-25.03	Peak	

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

Horizontal

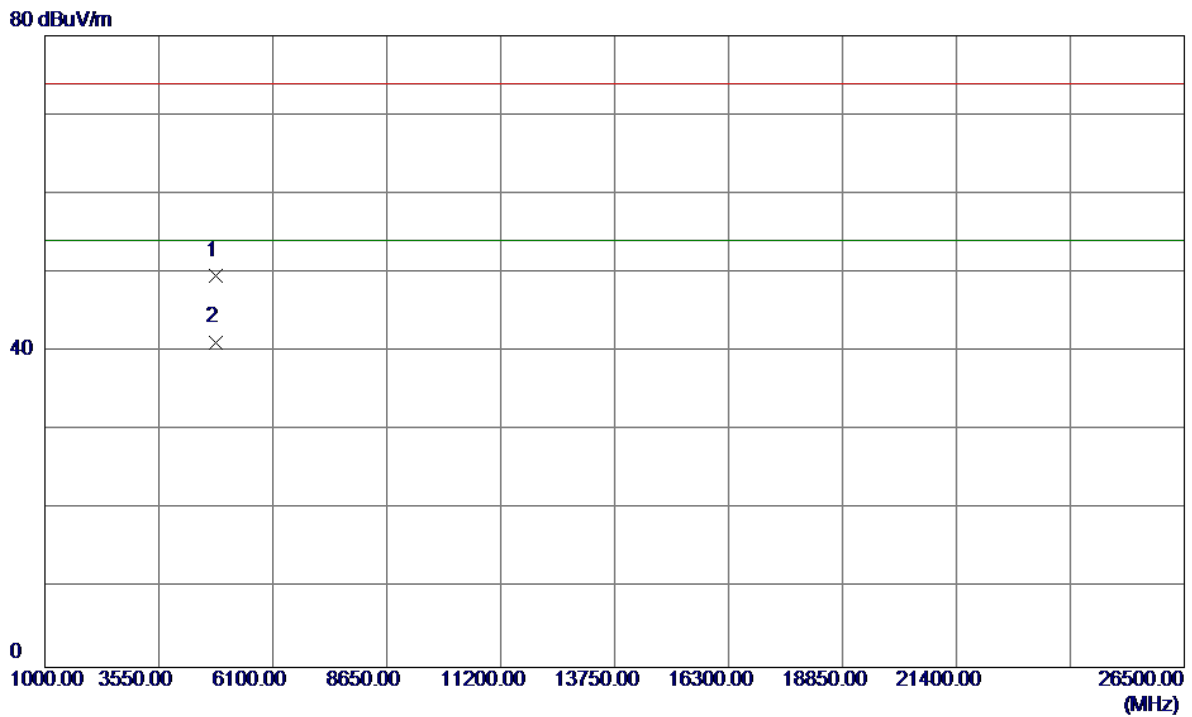
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	24.45	34.23	58.68	74.00	-15.32	Peak	
2	2390.0000	13.05	34.23	47.28	54.00	-6.72	AVG	
3	2414.9000	57.95	34.38	92.33	54.00	38.33	AVG	NO LIMIT
4	2415.0000	61.28	34.38	95.66	74.00	21.66	Peak	NO LIMIT

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

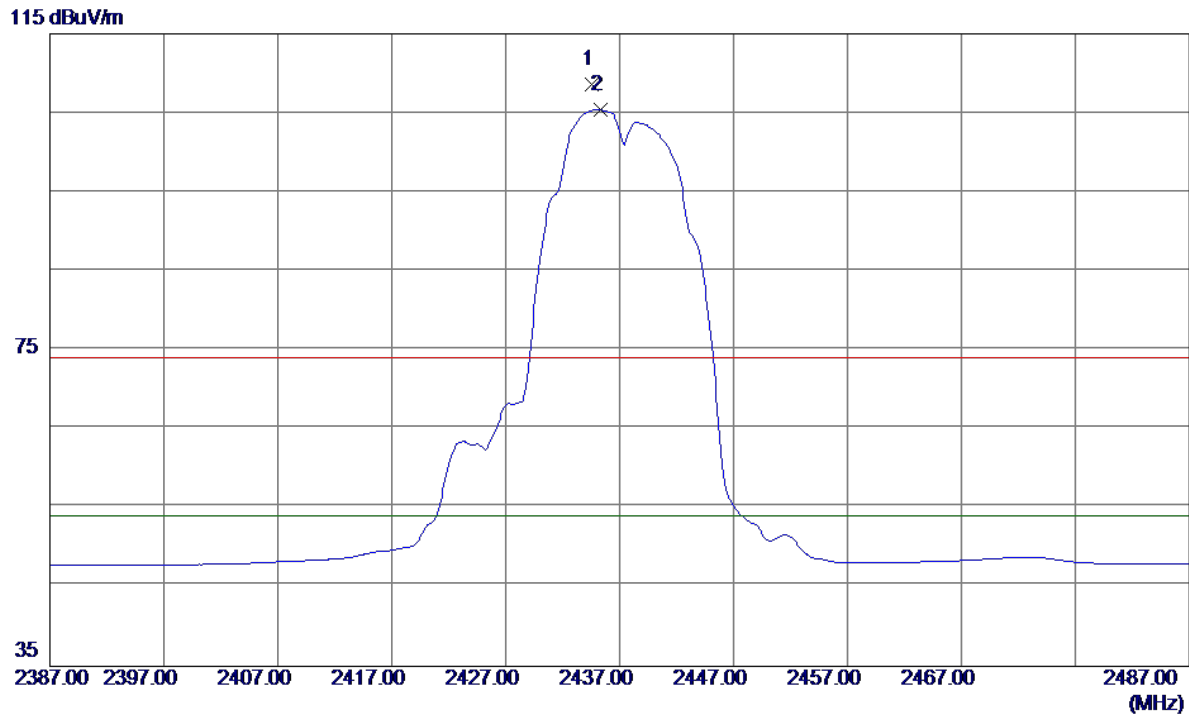
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.5500	46.64	3.00	49.64	74.00	-24.36	Peak	
2	4824.7000	38.20	3.00	41.20	54.00	-12.80	AVG	

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

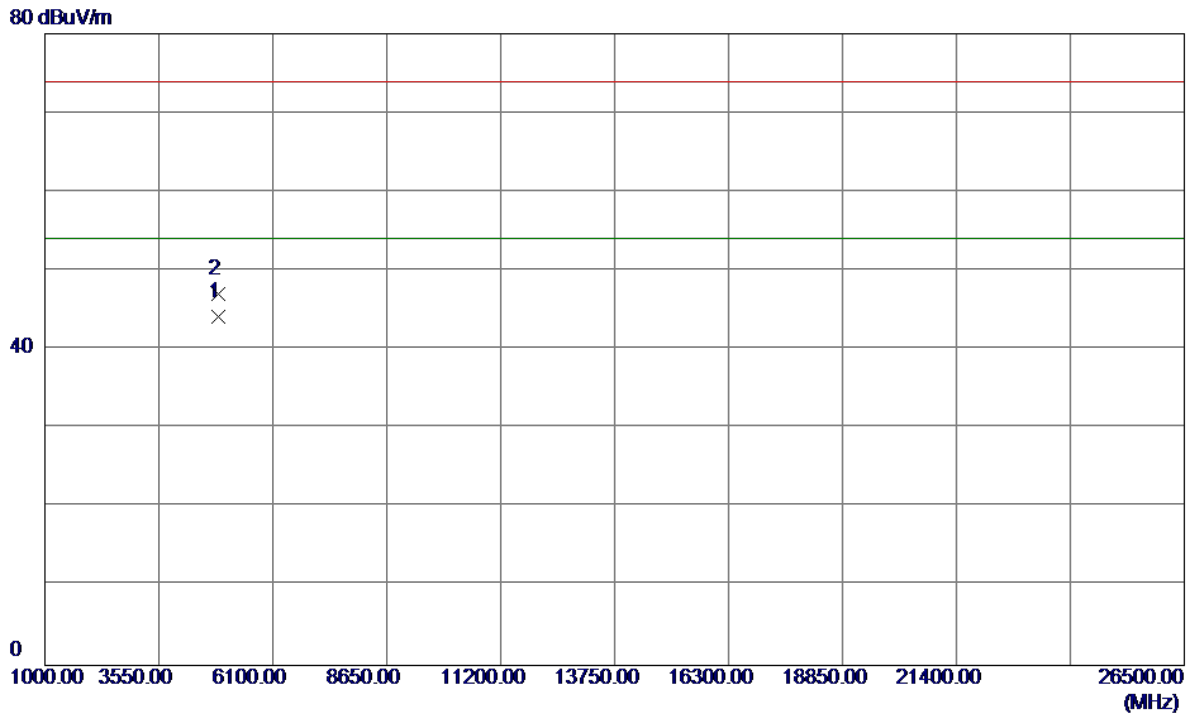
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2434.6000	74.06	34.49	108.55	74.00	34.55	Peak	NO LIMIT
2	2435.3000	70.88	34.49	105.37	54.00	51.37	AVG	NO LIMIT

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

Vertical

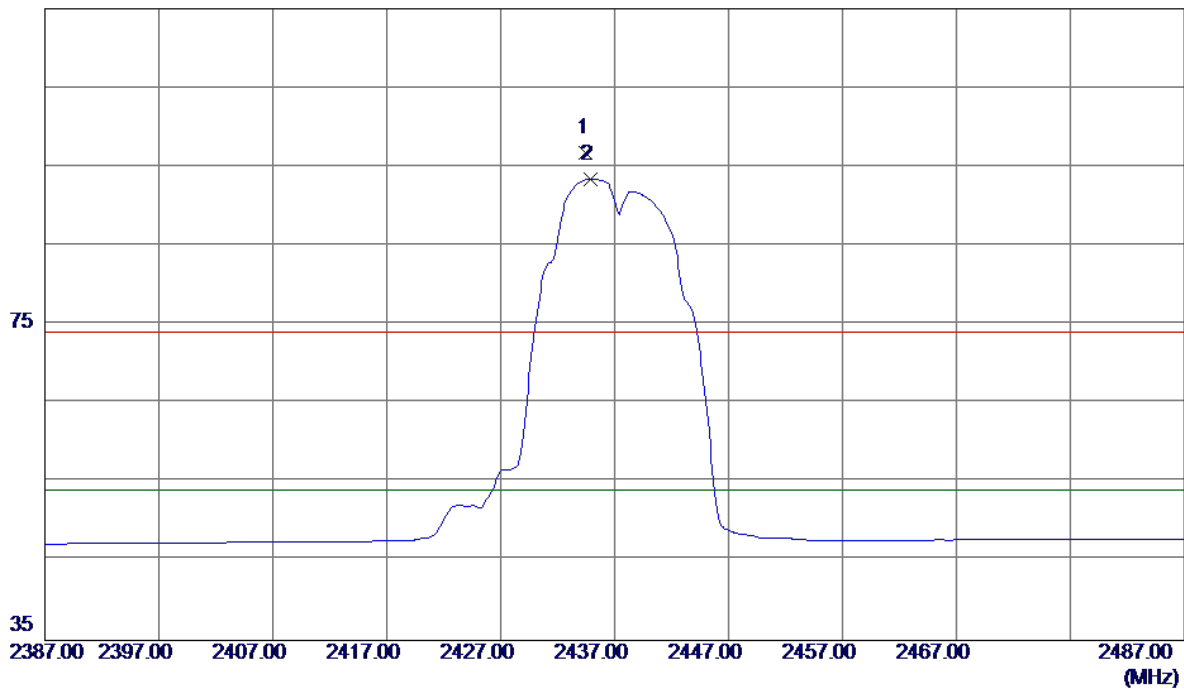


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.6600	41.19	3.03	44.22	54.00	-9.78	AVG	
2	4874.7200	44.08	3.03	47.11	74.00	-26.89	Peak	

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

Horizontal

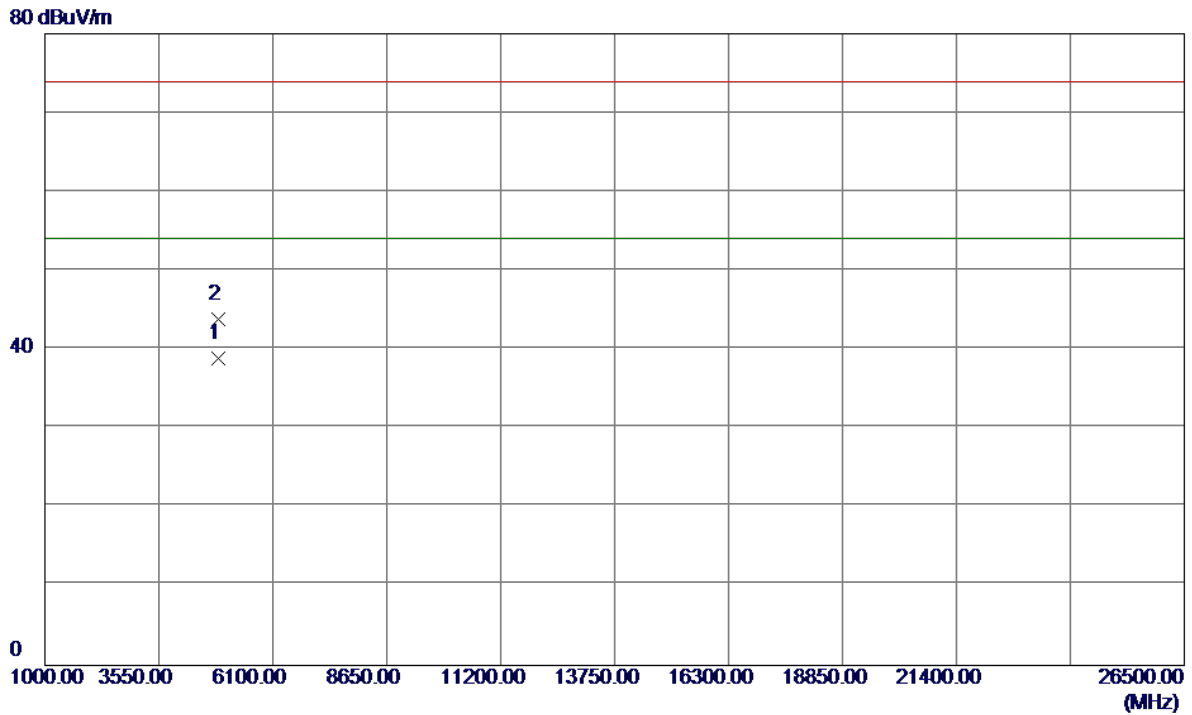
115 dBuV/m



No.	Freq.	Reading	Correct	Measure	Limit	Over	Detector	Comment
	MHz	dBuV/m	Factor	ment	dBuV/m	dB		
1	2434.5000	62.23	34.49	96.72	74.00	22.72	Peak	NO LIMIT
2	2434.9000	58.95	34.49	93.44	54.00	39.44	AVG	NO LIMIT

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

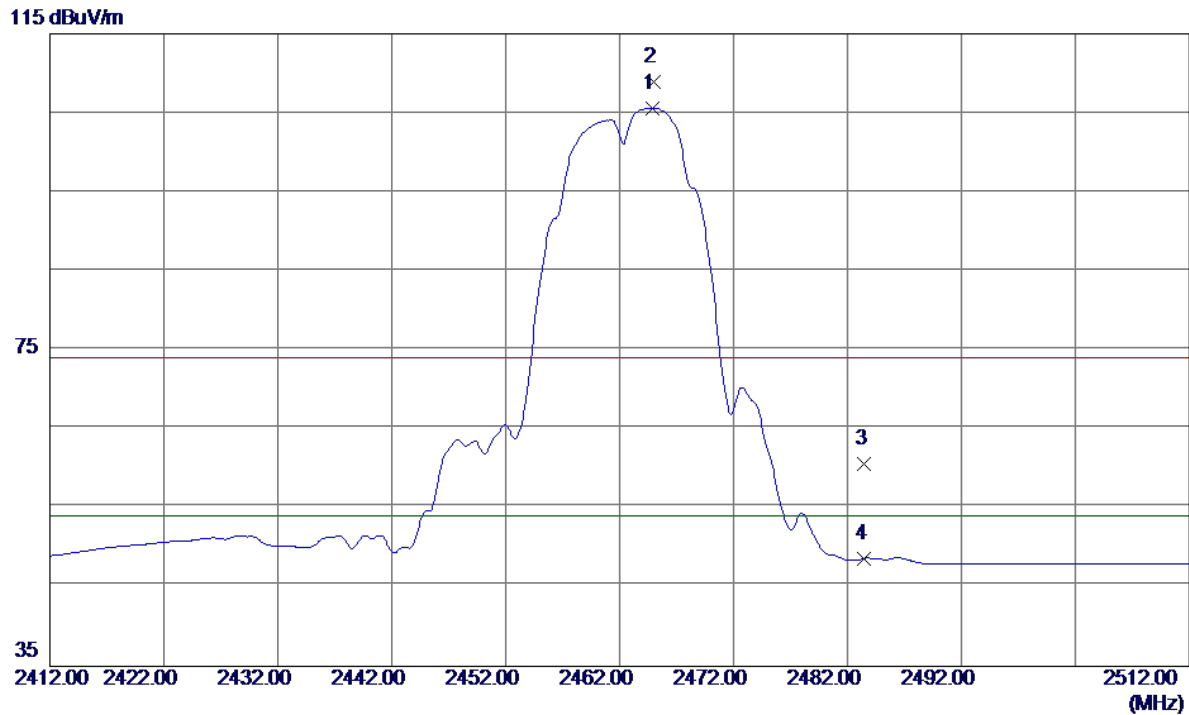
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.6600	35.85	3.03	38.88	54.00	-15.12	AVG	
2	4874.7000	40.84	3.03	43.87	74.00	-30.13	Peak	

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

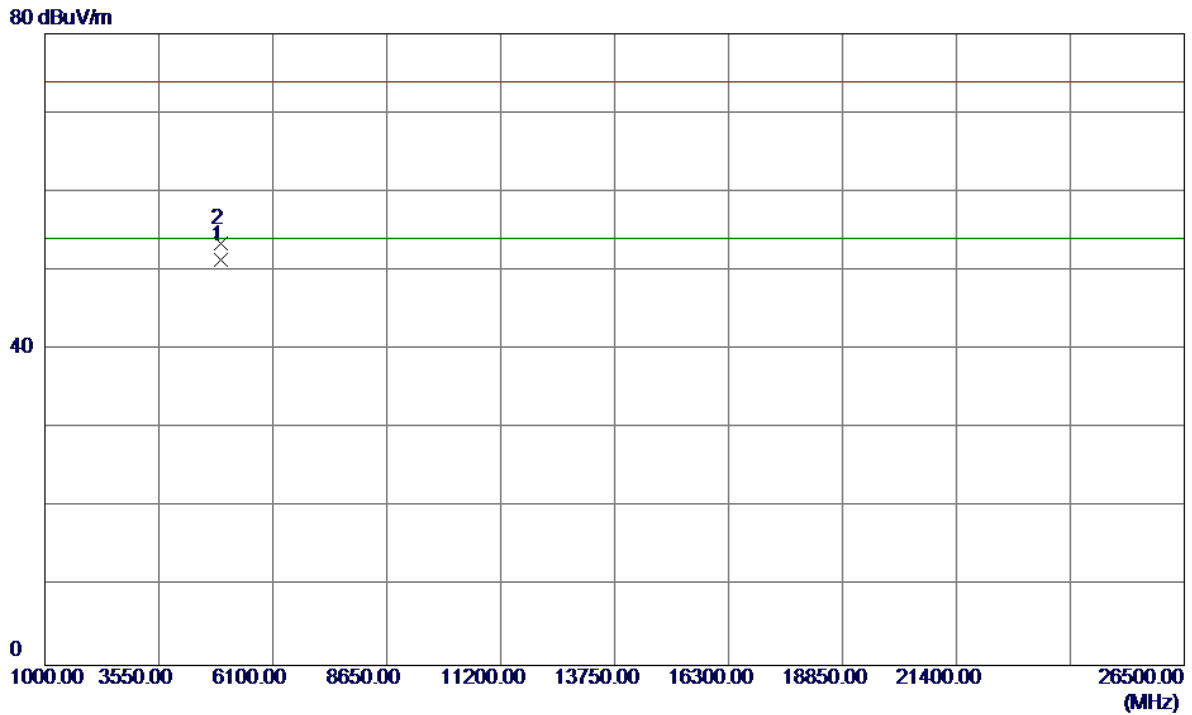
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2464.9000	70.90	34.67	105.57	54.00	51.57	AVG	NO LIMIT
2	2465.0000	74.27	34.67	108.94	74.00	34.94	Peak	NO LIMIT
3	2483.5000	25.79	34.77	60.56	74.00	-13.44	Peak	
4	2483.5000	13.87	34.77	48.64	54.00	-5.36	AVG	

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

Vertical

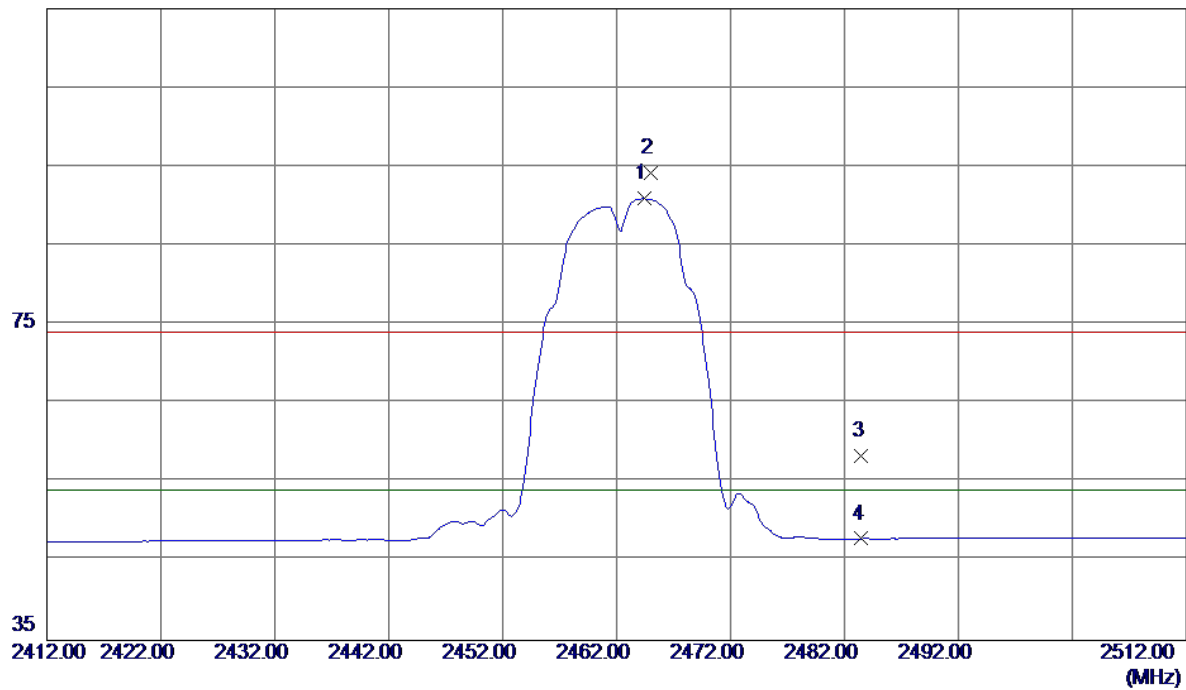


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.6800	48.26	3.05	51.31	54.00	-2.69	AVG	
2	4924.8600	50.46	3.05	53.51	74.00	-20.49	Peak	

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

Horizontal

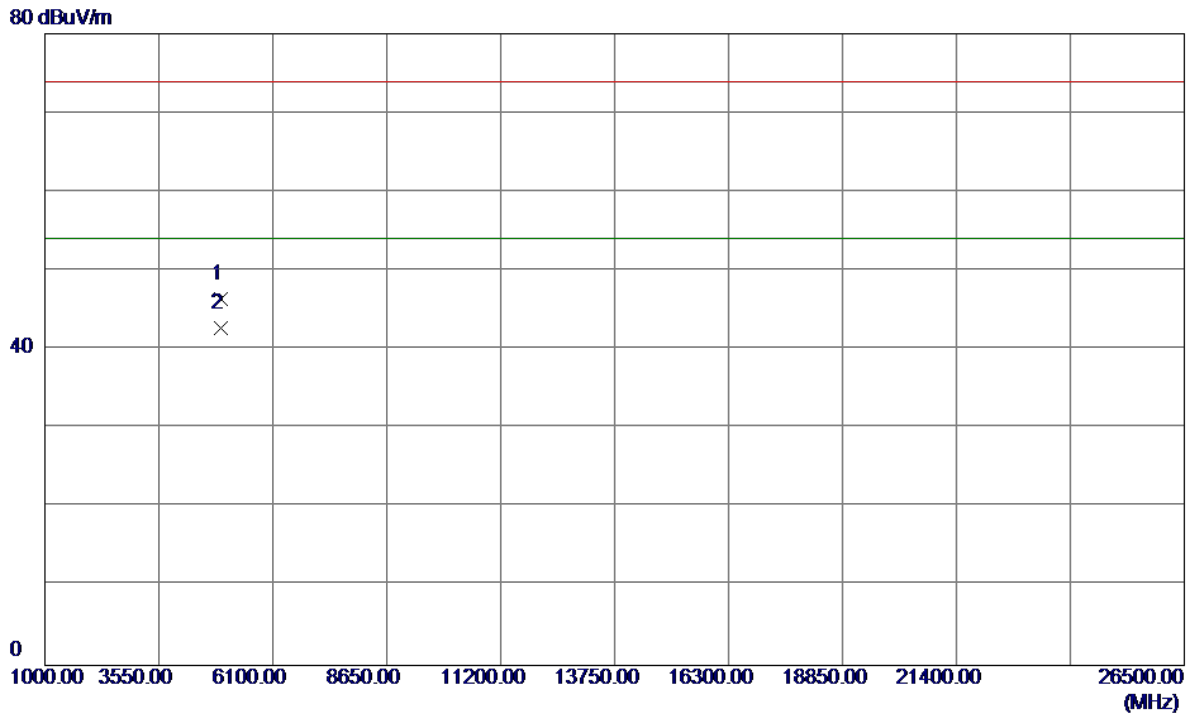
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2464.4000	56.30	34.66	90.96	54.00	36.96	AVG	NO LIMIT
2	2465.0000	59.53	34.67	94.20	74.00	20.20	Peak	NO LIMIT
3	2483.5000	23.63	34.77	58.40	74.00	-15.60	Peak	
4	2483.5000	13.11	34.77	47.88	54.00	-6.12	AVG	

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

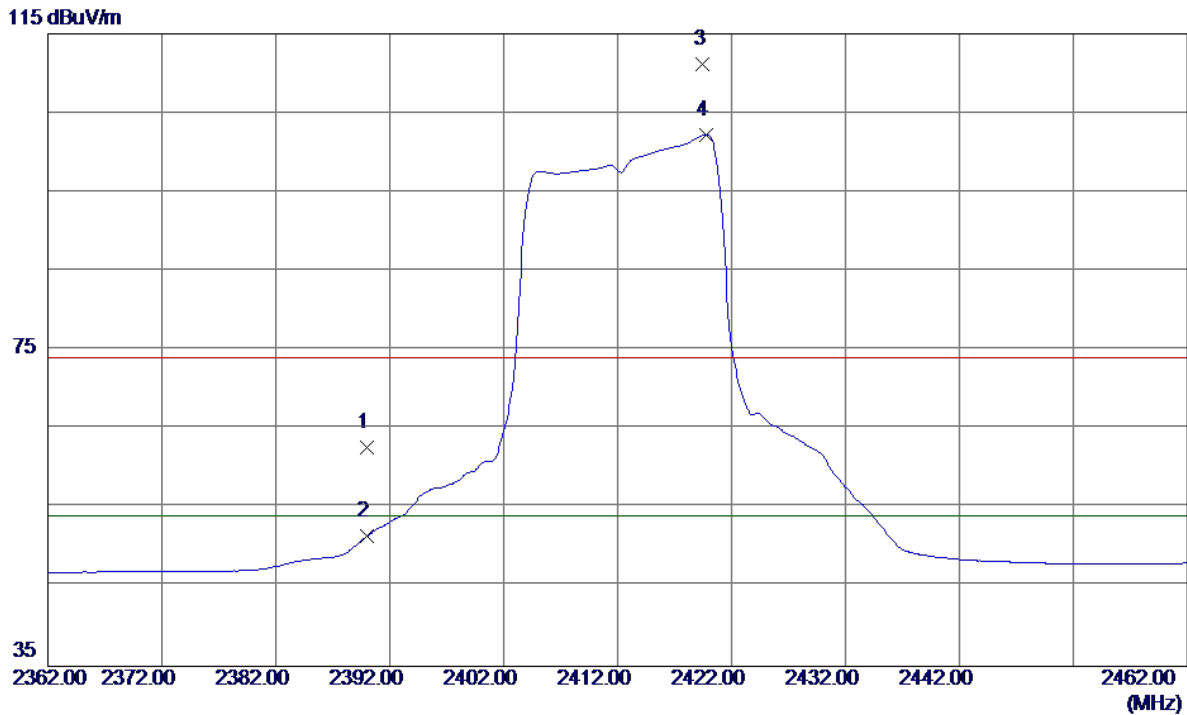
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.6600	43.34	3.05	46.39	74.00	-27.61	Peak	
2	4924.6800	39.71	3.05	42.76	54.00	-11.24	AVG	

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

Vertical

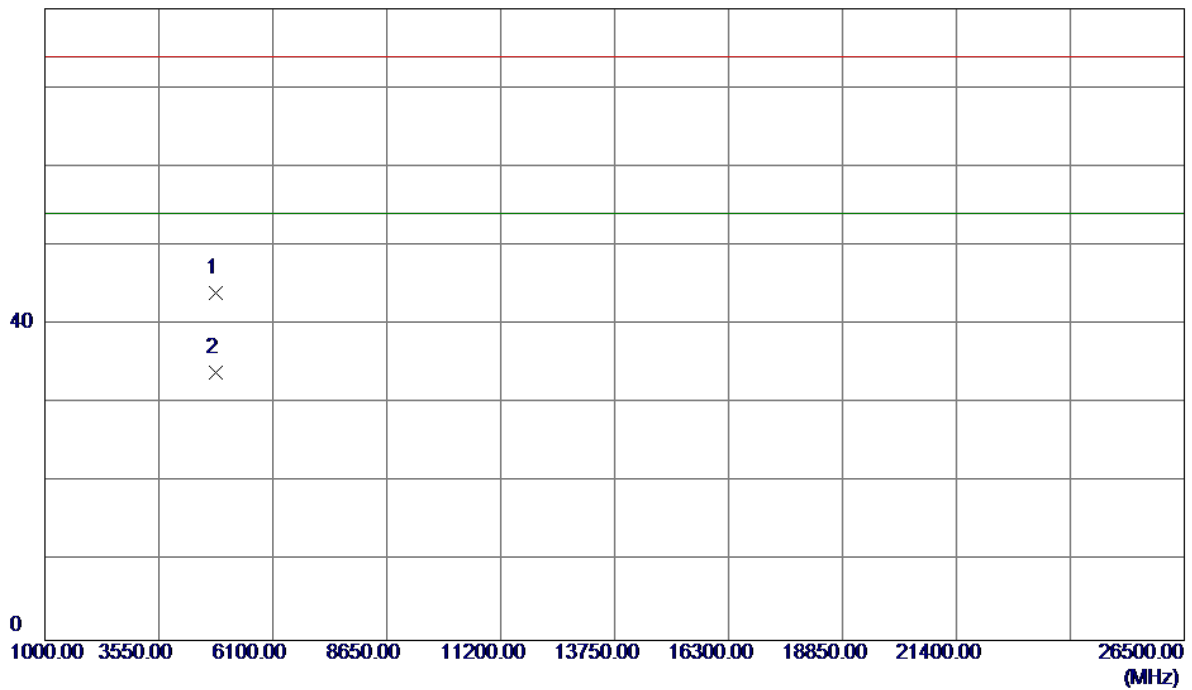


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	28.49	34.23	62.72	74.00	-11.28	Peak	
2	2390.0000	17.20	34.23	51.43	54.00	-2.57	AVG	
3	2419.5000	76.84	34.40	111.24	74.00	37.24	Peak	NO LIMIT
4	2419.8000	67.85	34.40	102.25	54.00	48.25	AVG	NO LIMIT

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

Vertical

80 dBuV/m

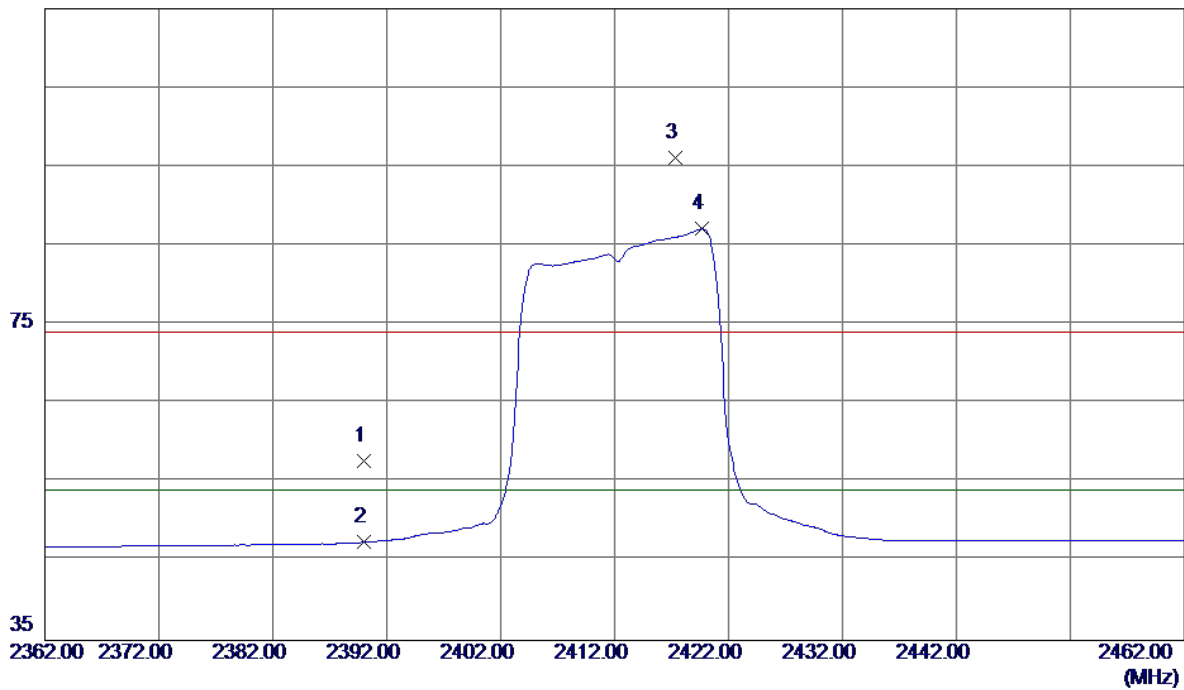


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4823.0000	40.96	3.00	43.96	74.00	-30.04	Peak	
2	4824.0000	30.95	3.00	33.95	54.00	-20.05	AVG	

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

Horizontal

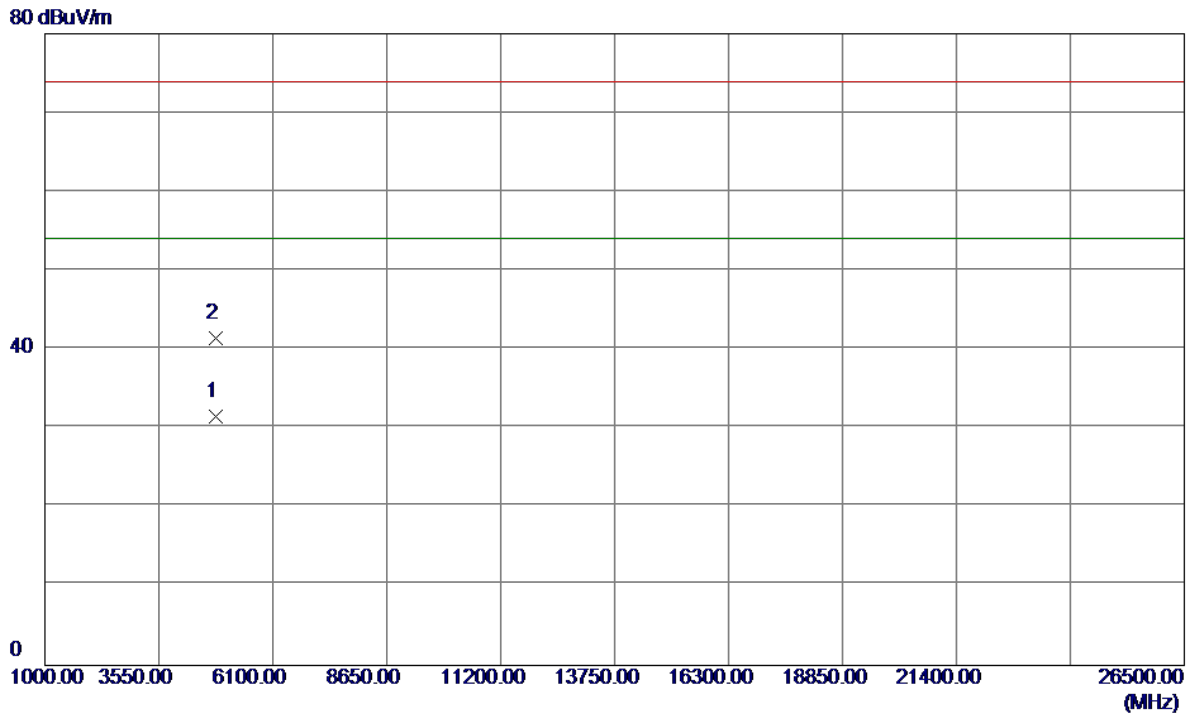
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	23.55	34.23	57.78	74.00	-16.22	Peak	
2	2390.0000	13.19	34.23	47.42	54.00	-6.58	AVG	
3	2417.3000	61.80	34.39	96.19	74.00	22.19	Peak	NO LIMIT
4	2419.7000	52.70	34.40	87.10	54.00	33.10	AVG	NO LIMIT

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

Horizontal

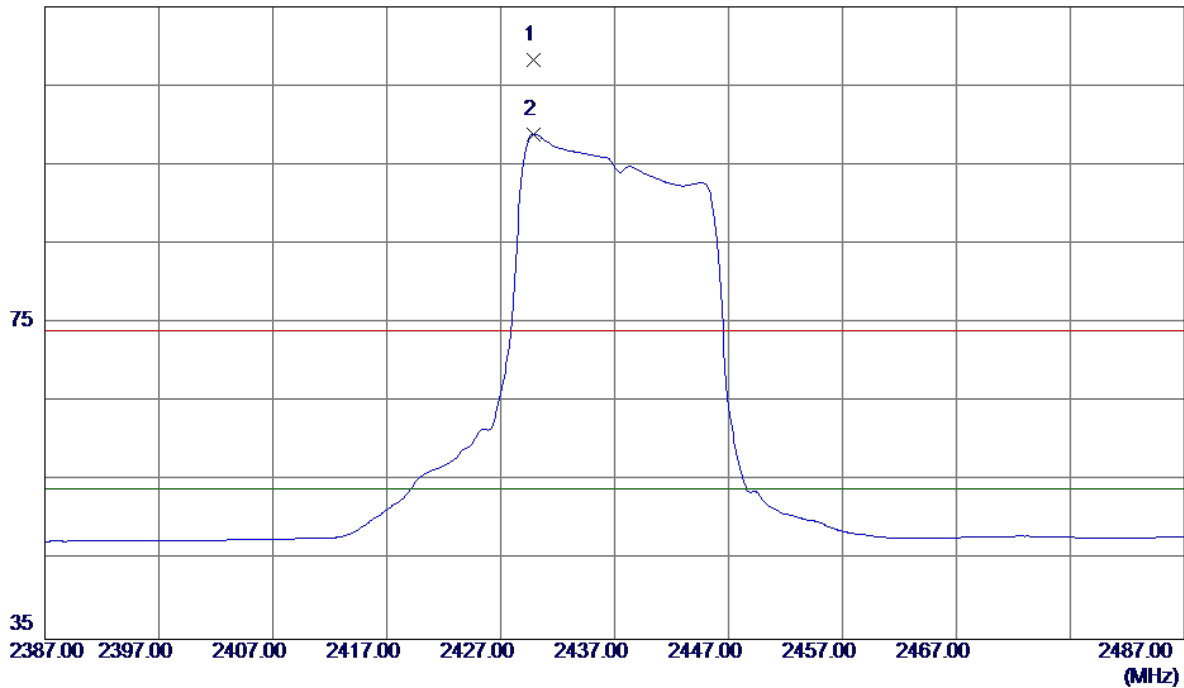


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0000	28.50	3.00	31.50	54.00	-22.50	AVG	
2	4824.5000	38.42	3.00	41.42	74.00	-32.58	Peak	

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

Vertical

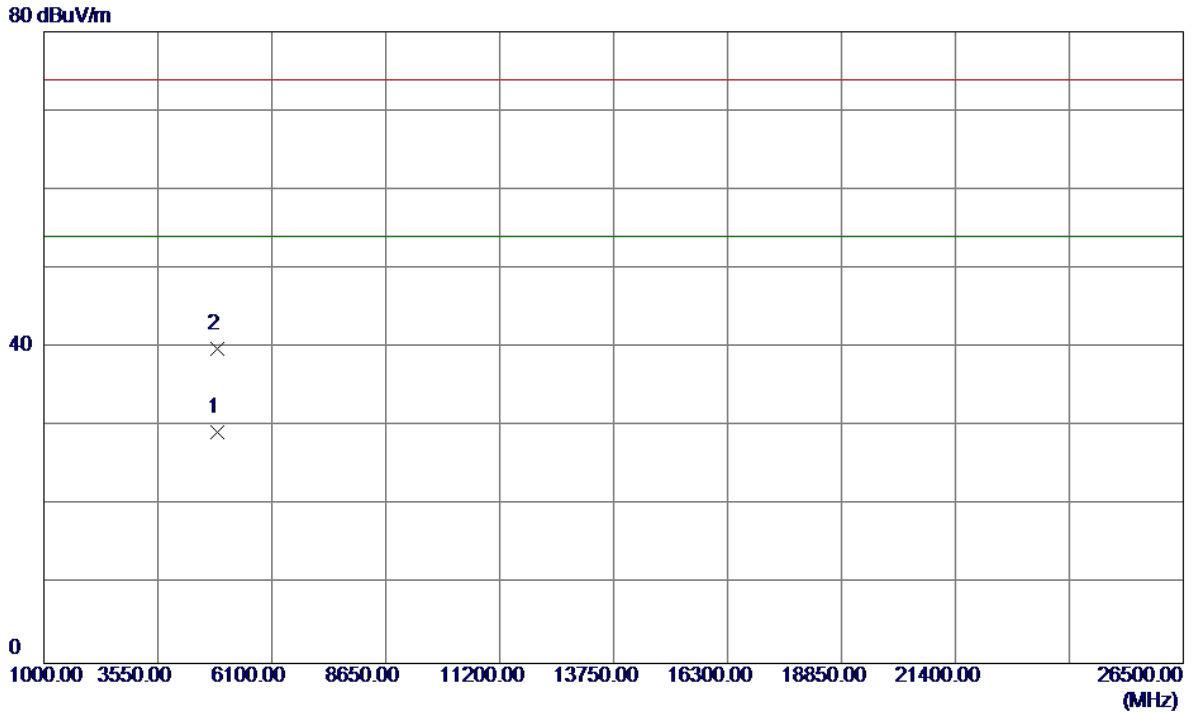
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2429.9000	73.88	34.46	108.34	74.00	34.34	Peak	NO LIMIT
2	2429.9000	64.41	34.46	98.87	54.00	44.87	AVG	NO LIMIT

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

Vertical

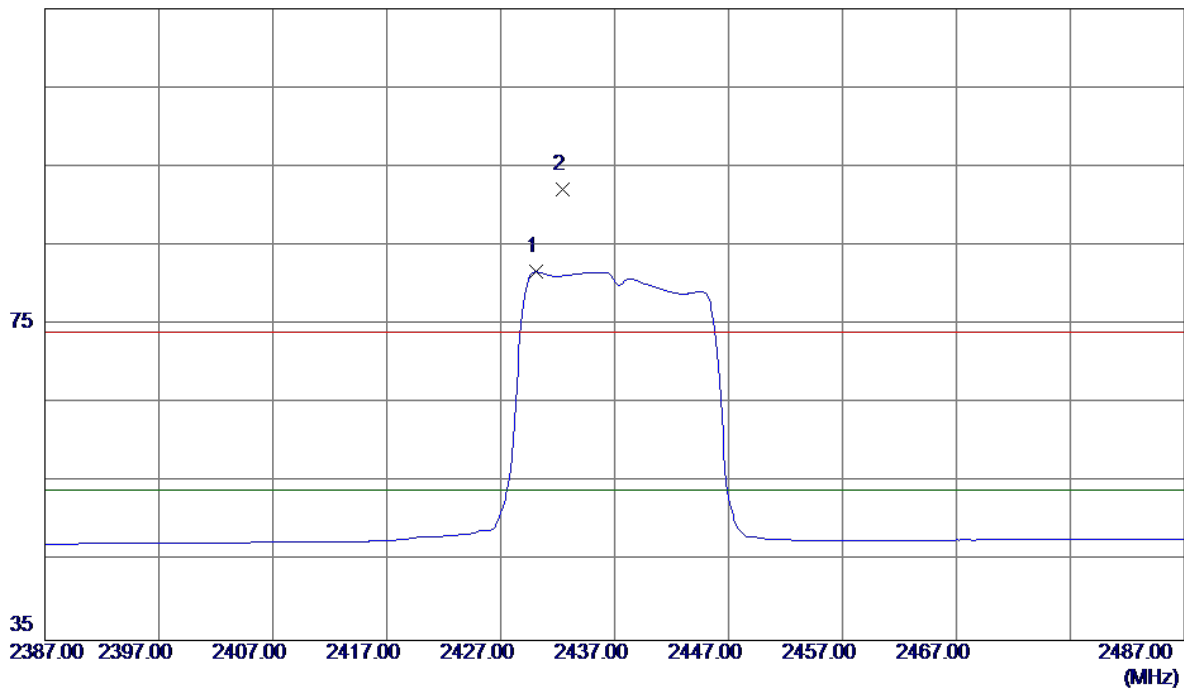


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.5000	26.30	3.03	29.33	54.00	-24.67	AVG	
2	4875.0000	36.89	3.03	39.92	74.00	-34.08	Peak	

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

Horizontal

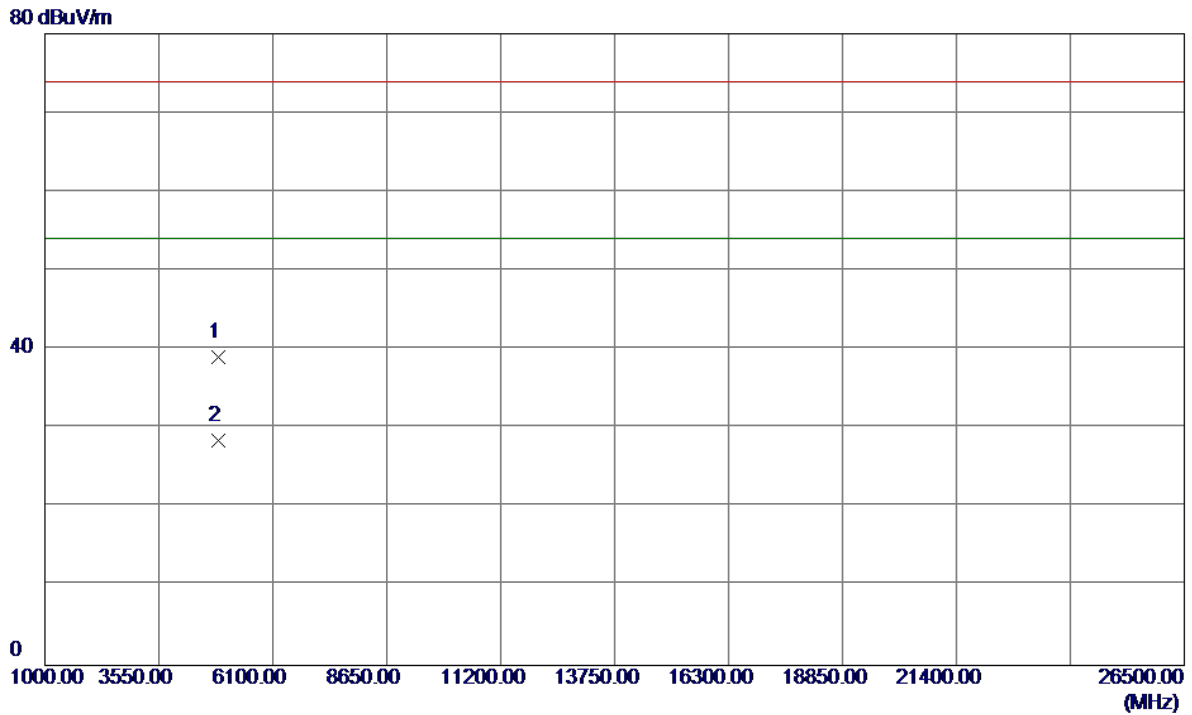
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2430.1000	47.19	34.46	81.65	54.00	27.65	AVG	NO LIMIT
2	2432.4000	57.65	34.48	92.13	74.00	18.13	Peak	NO LIMIT

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

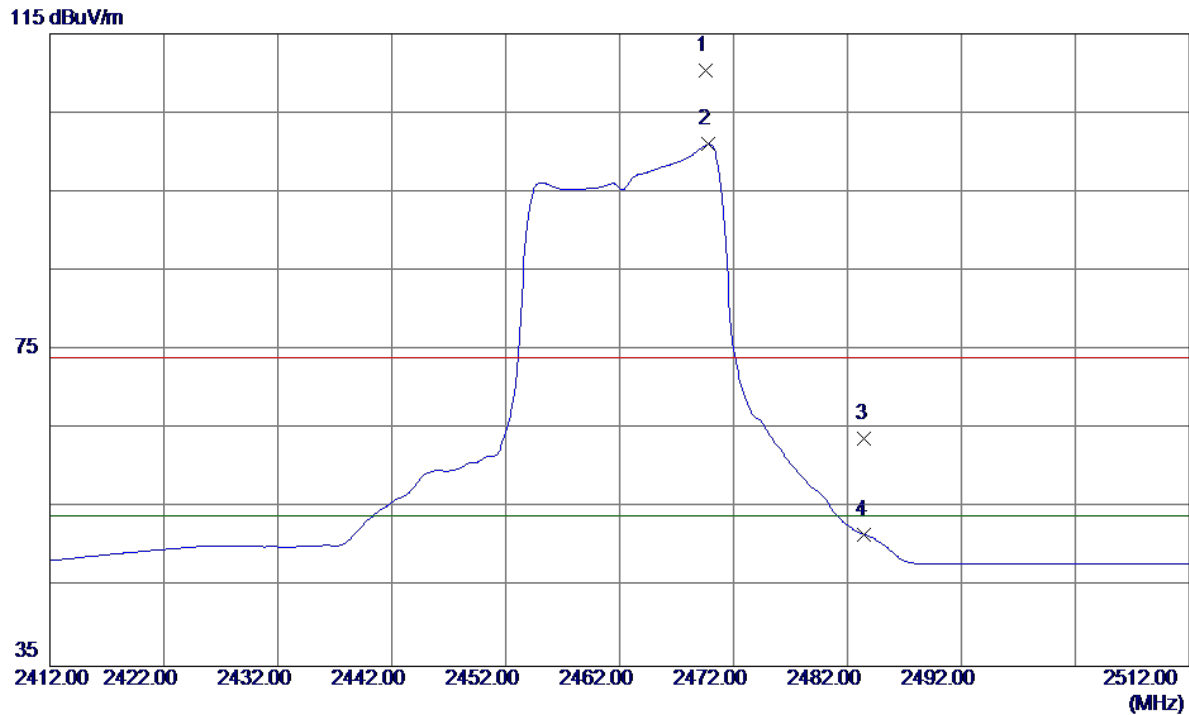
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.0000	35.95	3.03	38.98	74.00	-35.02	Peak	
2	4875.5000	25.41	3.03	28.44	54.00	-25.56	AVG	

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

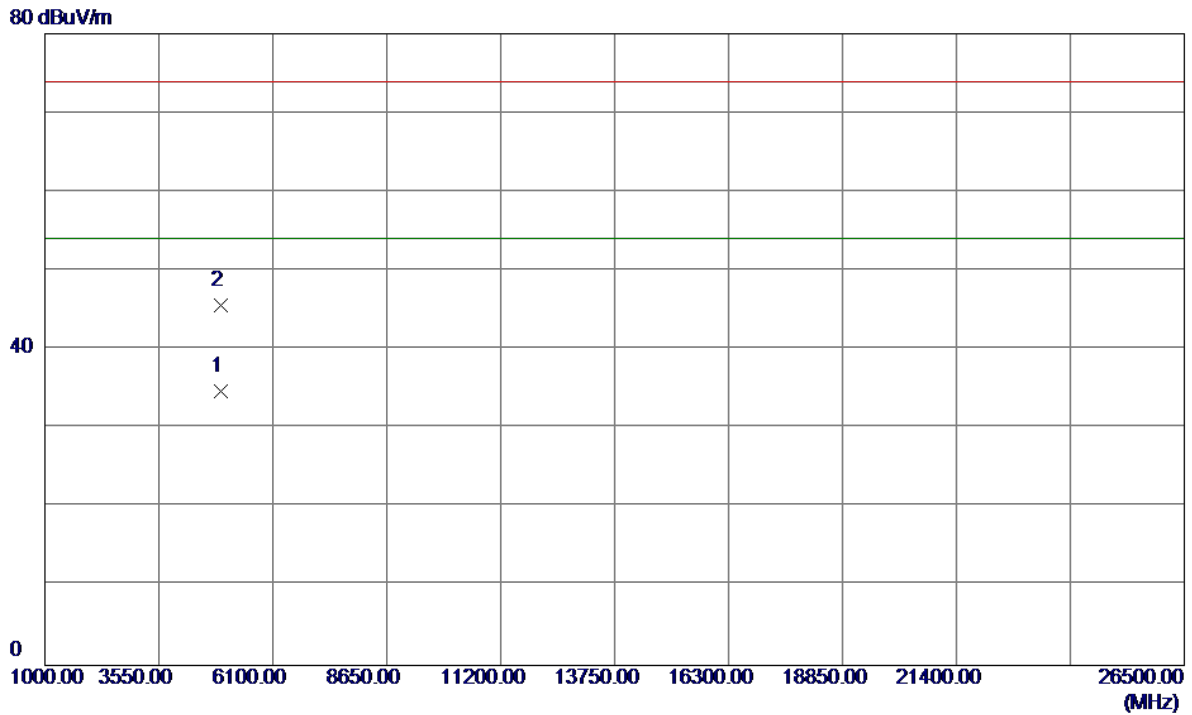
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2469.6000	75.61	34.69	110.30	74.00	36.30	Peak	NO LIMIT
2	2469.8000	66.32	34.69	101.01	54.00	47.01	AVG	NO LIMIT
3	2483.5000	28.96	34.77	63.73	74.00	-10.27	Peak	
4	2483.5000	16.89	34.77	51.66	54.00	-2.34	AVG	

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

Vertical

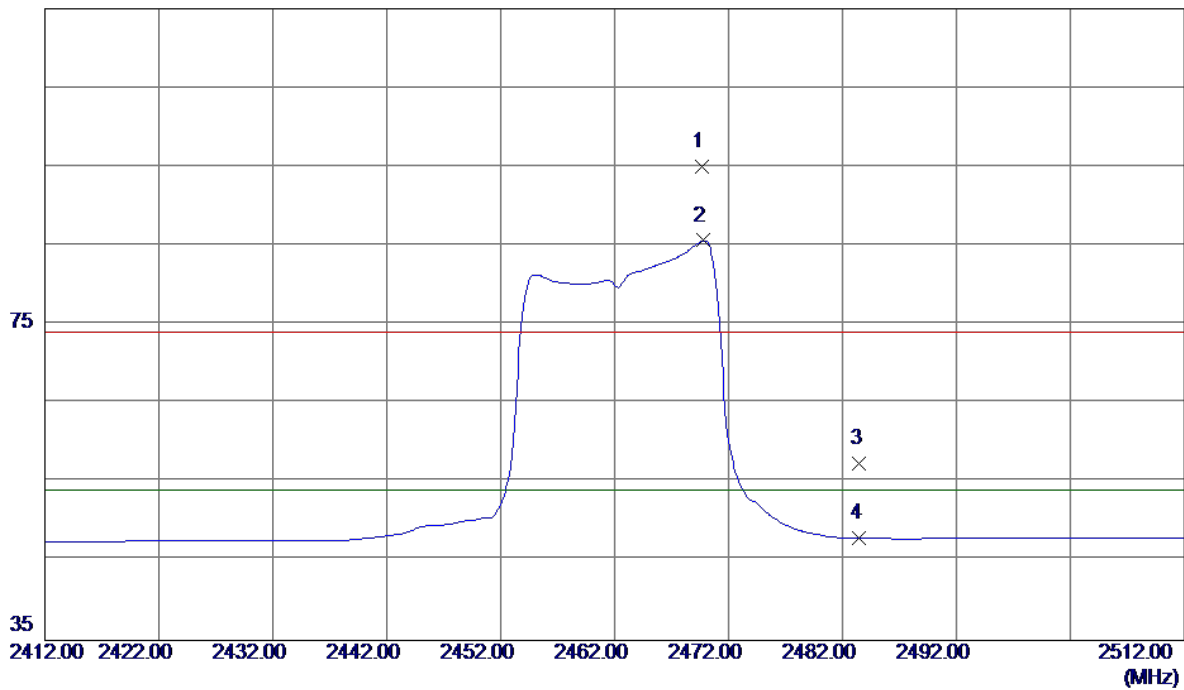


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4925.0000	31.71	3.05	34.76	54.00	-19.24	AVG	
2	4927.0000	42.57	3.05	45.62	74.00	-28.38	Peak	

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

Horizontal

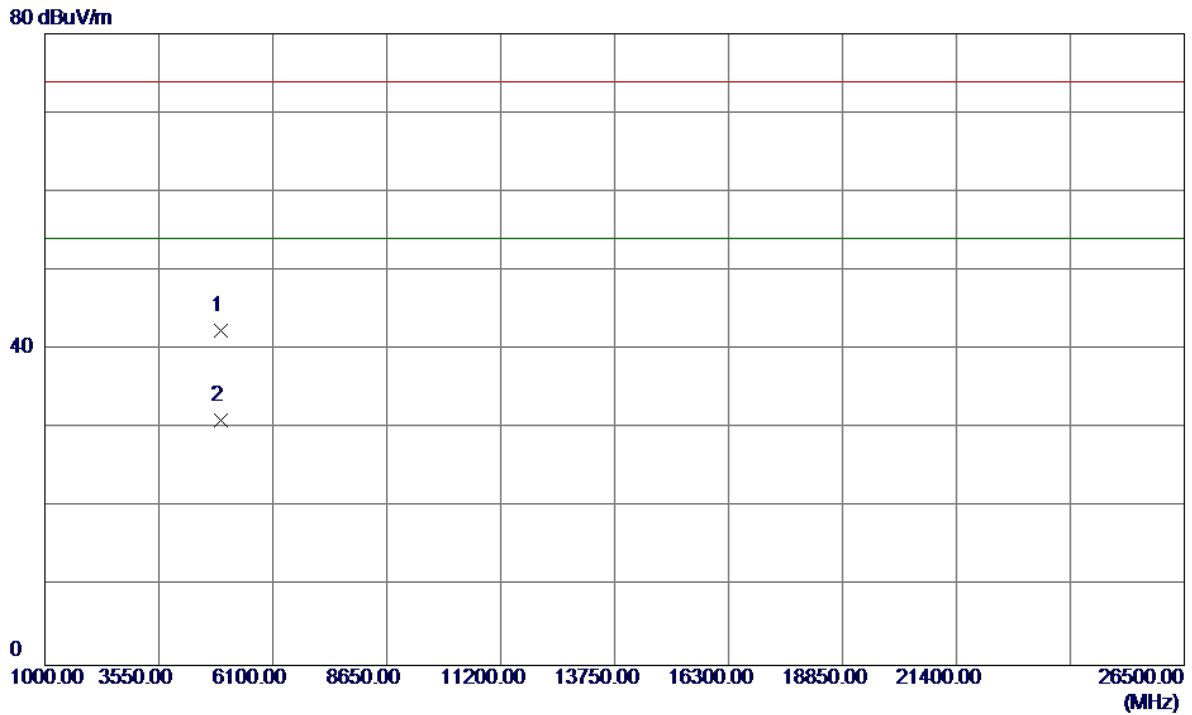
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2469.7000	60.28	34.69	94.97	74.00	20.97	Peak	NO LIMIT
2	2469.8000	50.95	34.69	85.64	54.00	31.64	AVG	NO LIMIT
3	2483.5000	22.65	34.77	57.42	74.00	-16.58	Peak	
4	2483.5000	13.16	34.77	47.93	54.00	-6.07	AVG	

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

Horizontal

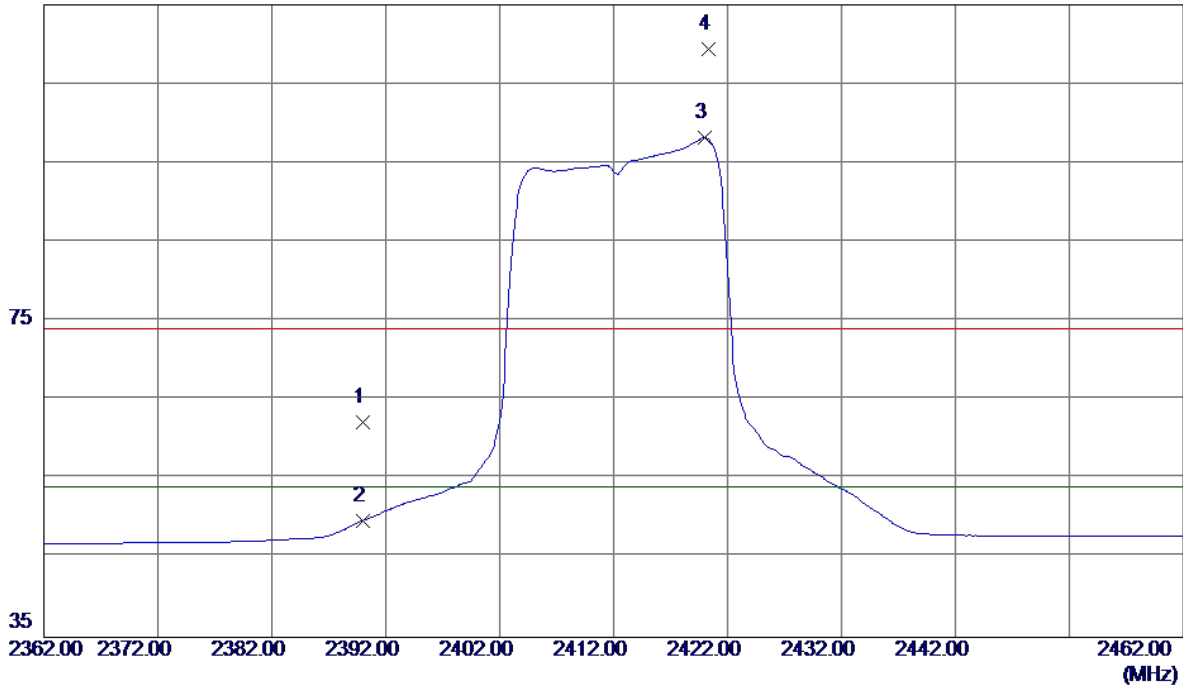


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.5000	39.33	3.05	42.38	74.00	-31.62	Peak	
2	4924.5000	27.92	3.05	30.97	54.00	-23.03	AVG	

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

Vertical

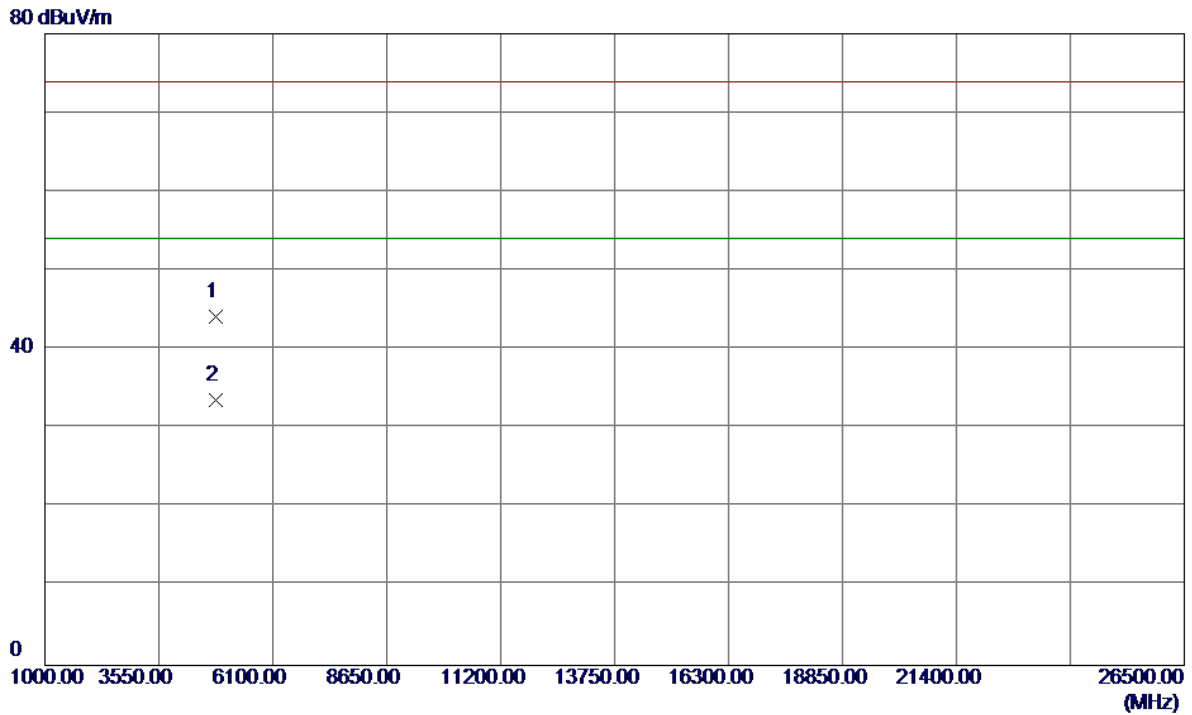
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	27.95	34.23	62.18	74.00	-11.82	Peak	
2	2390.0000	15.54	34.23	49.77	54.00	-4.23	AVG	
3	2420.0000	63.74	34.41	98.15	54.00	44.15	AVG	NO LIMIT
4	2420.3000	75.03	34.41	109.44	74.00	35.44	Peak	NO LIMIT

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

Vertical

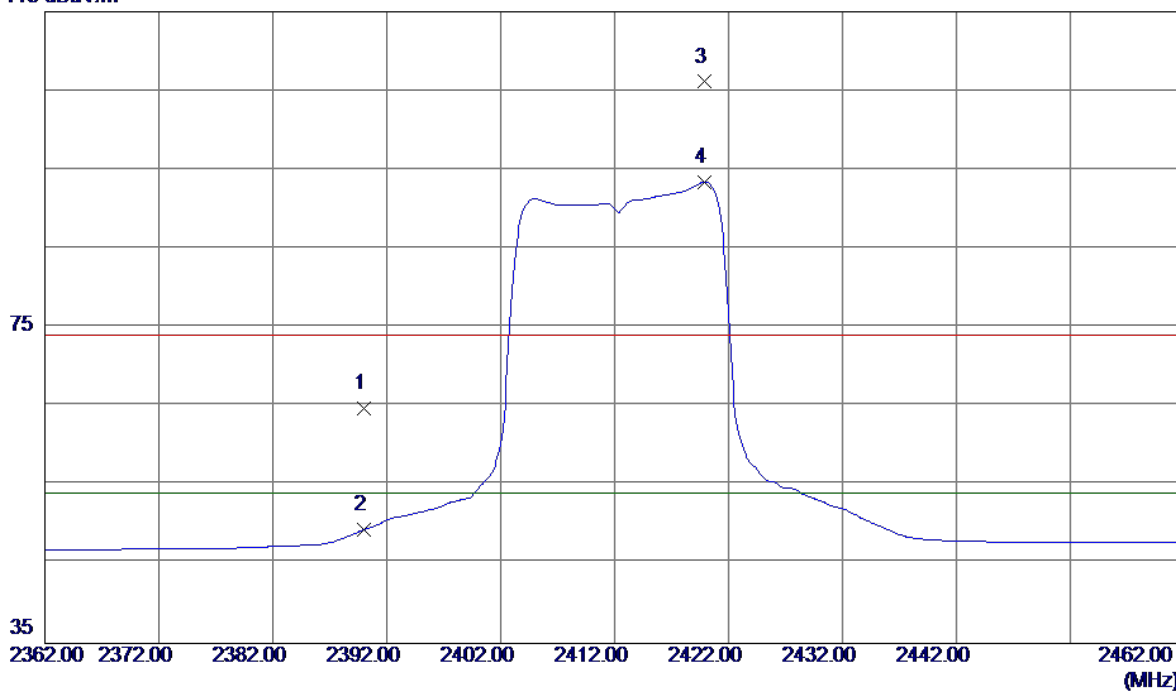


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0000	41.13	3.00	44.13	74.00	-29.87	Peak	
2	4824.0000	30.63	3.00	33.63	54.00	-20.37	AVG	

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

Horizontal

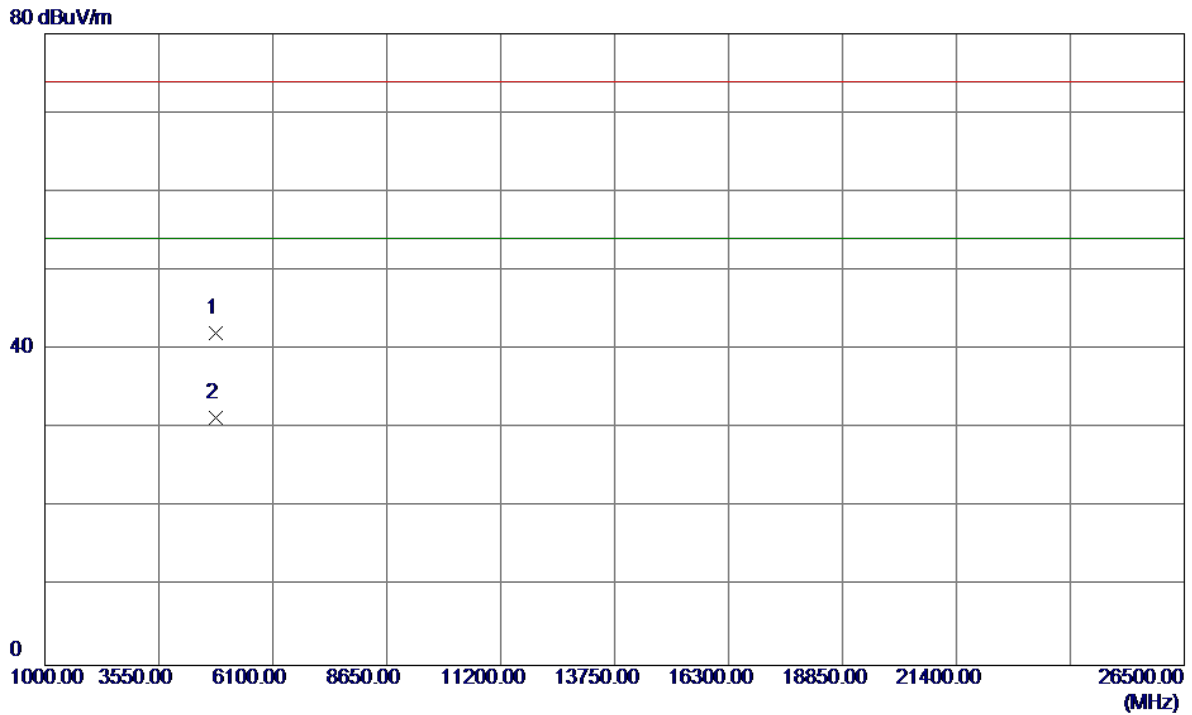
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	30.59	34.23	64.82	74.00	-9.18	Peak	
2	2390.0000	15.17	34.23	49.40	54.00	-4.60	AVG	
3	2419.9000	71.71	34.41	106.12	74.00	32.12	Peak	NO LIMIT
4	2419.9000	59.02	34.41	93.43	54.00	39.43	AVG	NO LIMIT

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

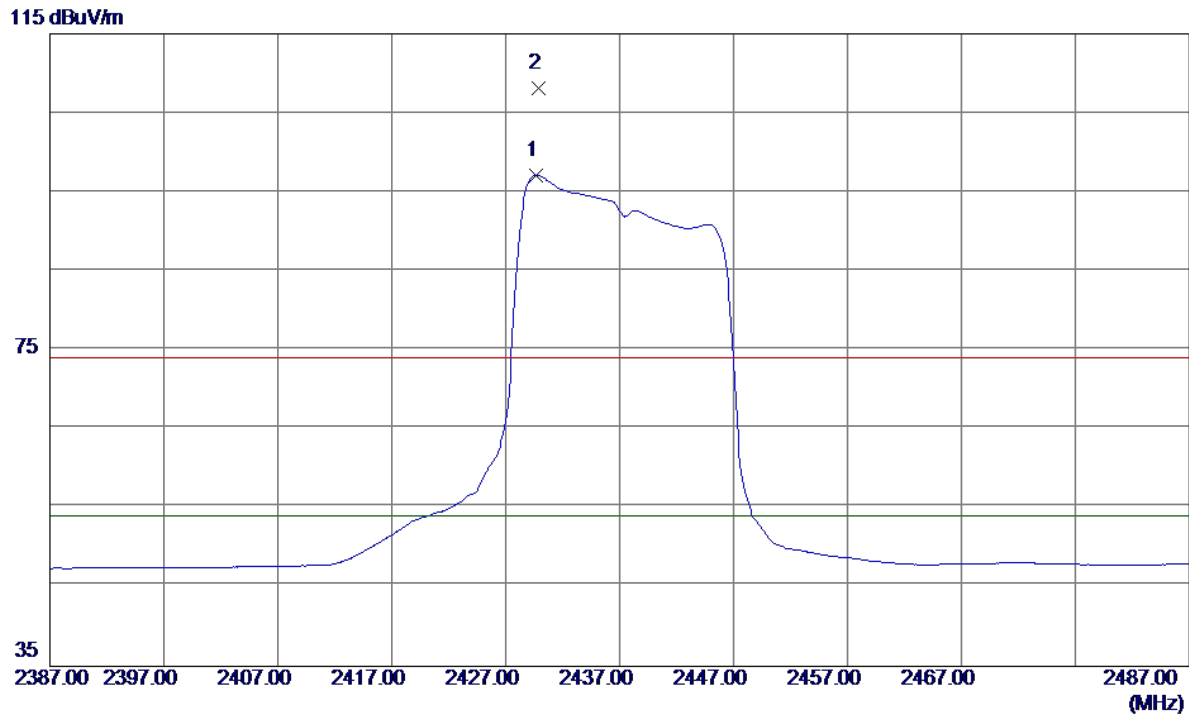
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4824.0000	39.01	3.00	42.01	74.00	-31.99	Peak	
2	4824.5000	28.33	3.00	31.33	54.00	-22.67	AVG	

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

Vertical

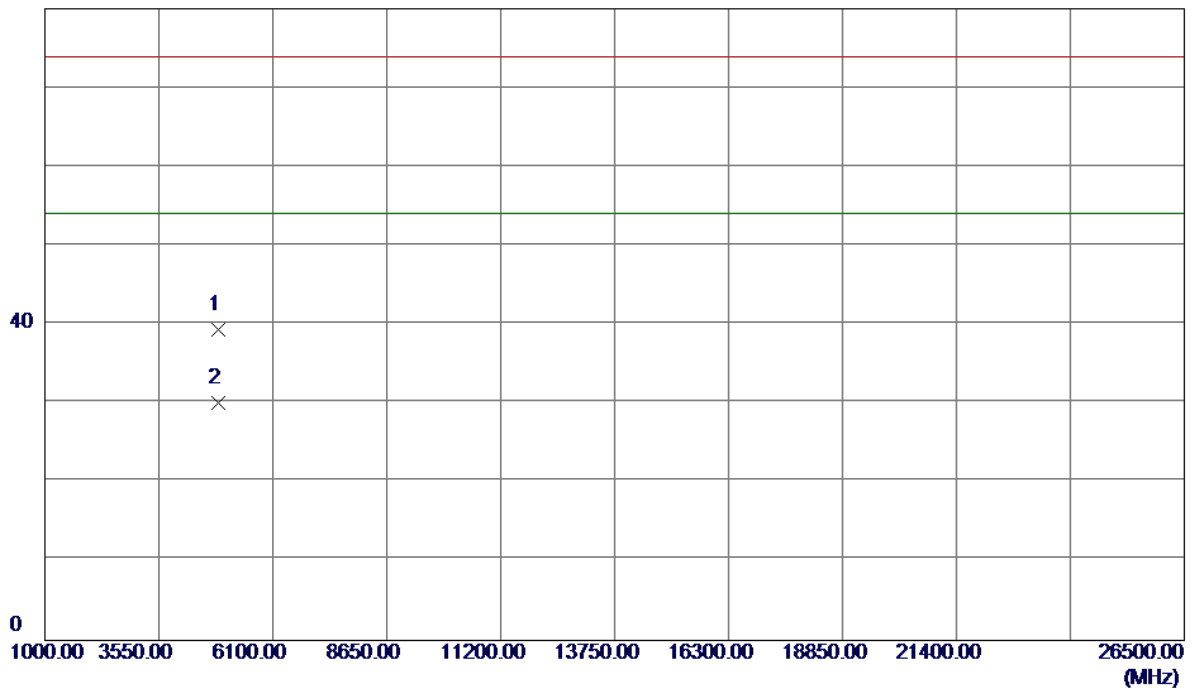


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2429.7000	62.65	34.46	97.11	54.00	43.11	AVG	NO LIMIT
2	2429.9000	73.66	34.46	108.12	74.00	34.12	Peak	NO LIMIT

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

Vertical

80 dBuV/m

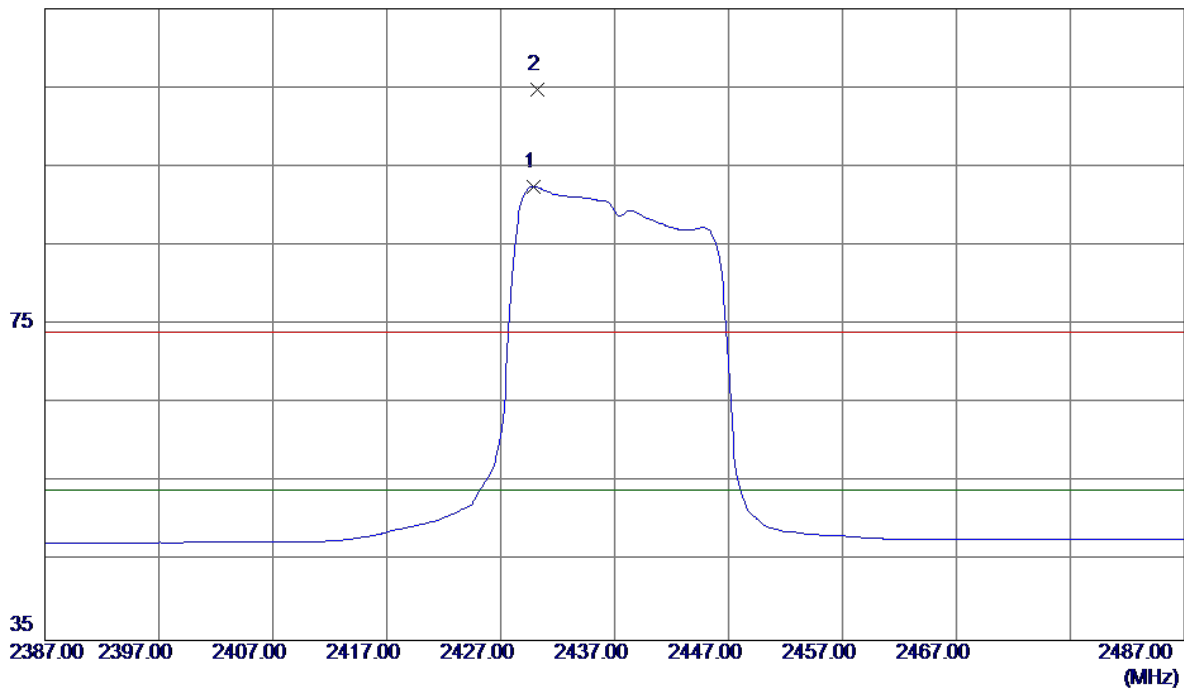


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.0000	36.39	3.03	39.42	74.00	-34.58	Peak	
2	4874.0000	27.01	3.03	30.04	54.00	-23.96	AVG	

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

Horizontal

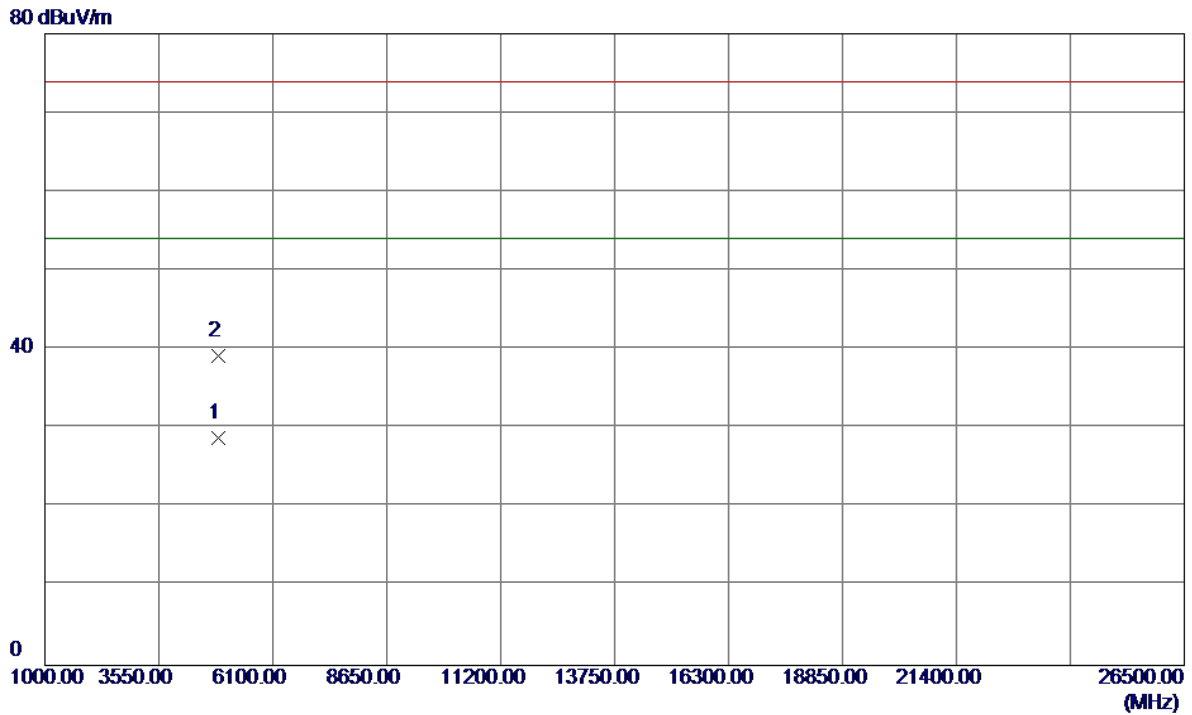
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2429.9000	58.03	34.46	92.49	54.00	38.49	AVG	NO LIMIT
2	2430.2000	70.23	34.47	104.70	74.00	30.70	Peak	NO LIMIT

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

Horizontal

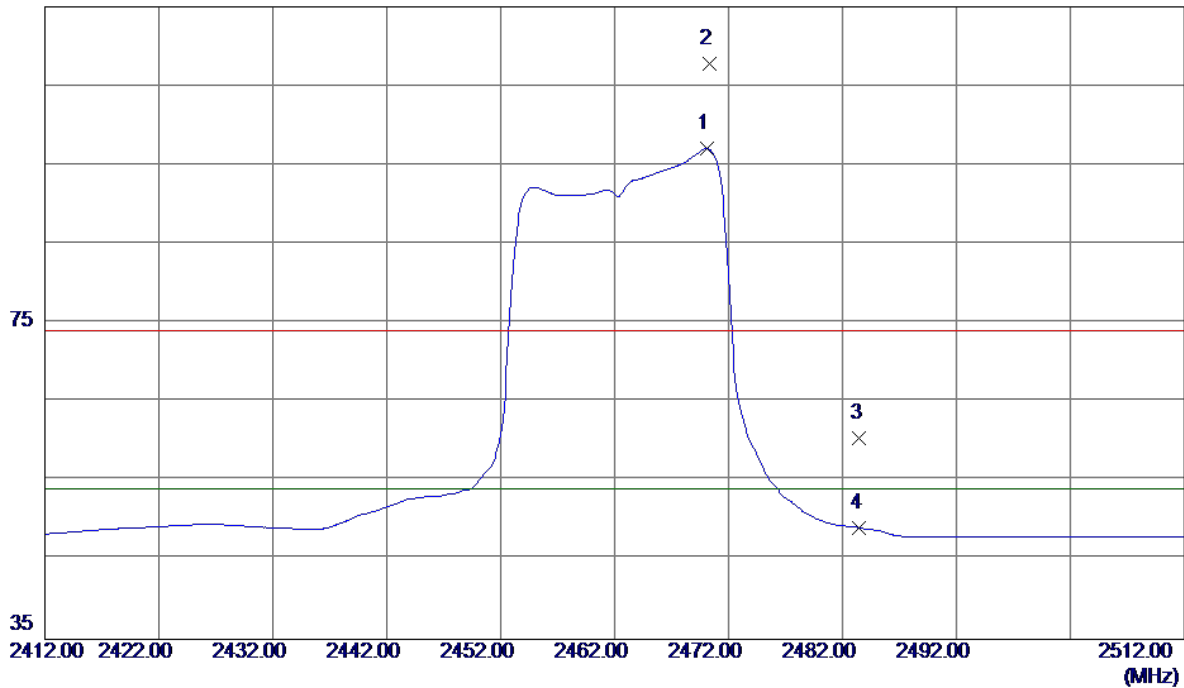


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.0000	25.75	3.03	28.78	54.00	-25.22	AVG	
2	4874.5000	36.11	3.03	39.14	74.00	-34.86	Peak	

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

Vertical

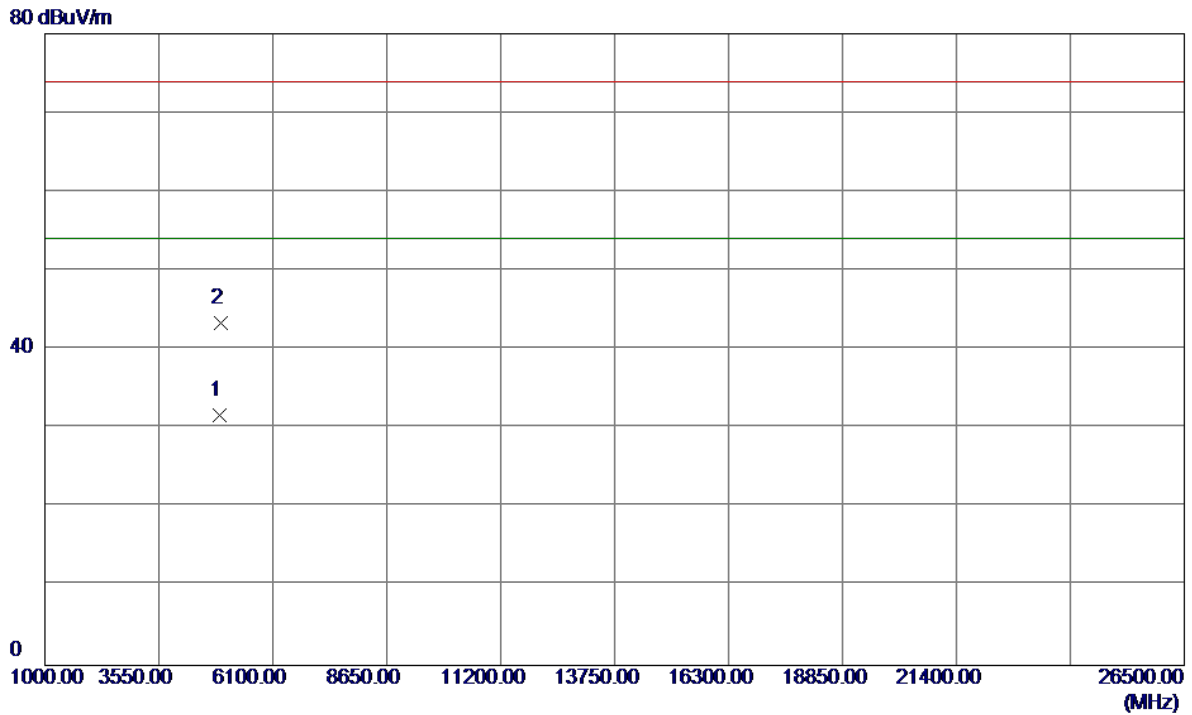
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2470.1000	62.34	34.70	97.04	54.00	43.04	AVG	NO LIMIT
2	2470.3000	73.14	34.70	107.84	74.00	33.84	Peak	NO LIMIT
3	2483.5000	25.74	34.77	60.51	74.00	-13.49	Peak	
4	2483.5000	14.32	34.77	49.09	54.00	-4.91	AVG	

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

Vertical

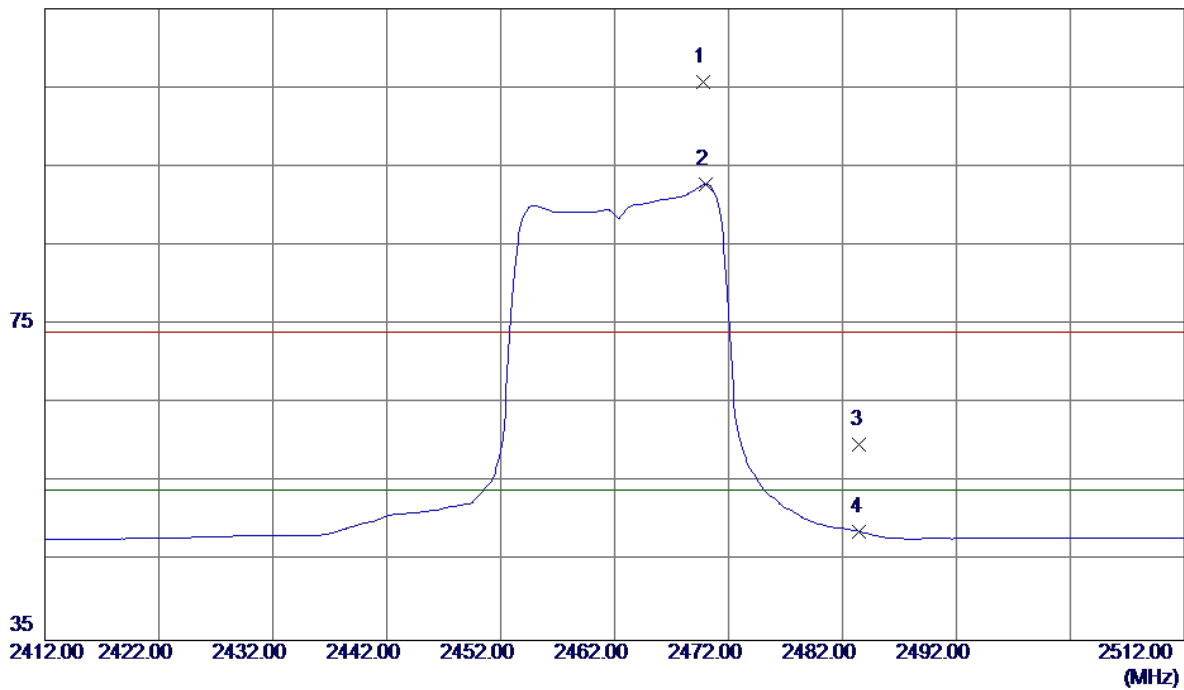


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4924.0000	28.64	3.05	31.69	54.00	-22.31	AVG	
2	4924.5000	40.24	3.05	43.29	74.00	-30.71	Peak	

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

Horizontal

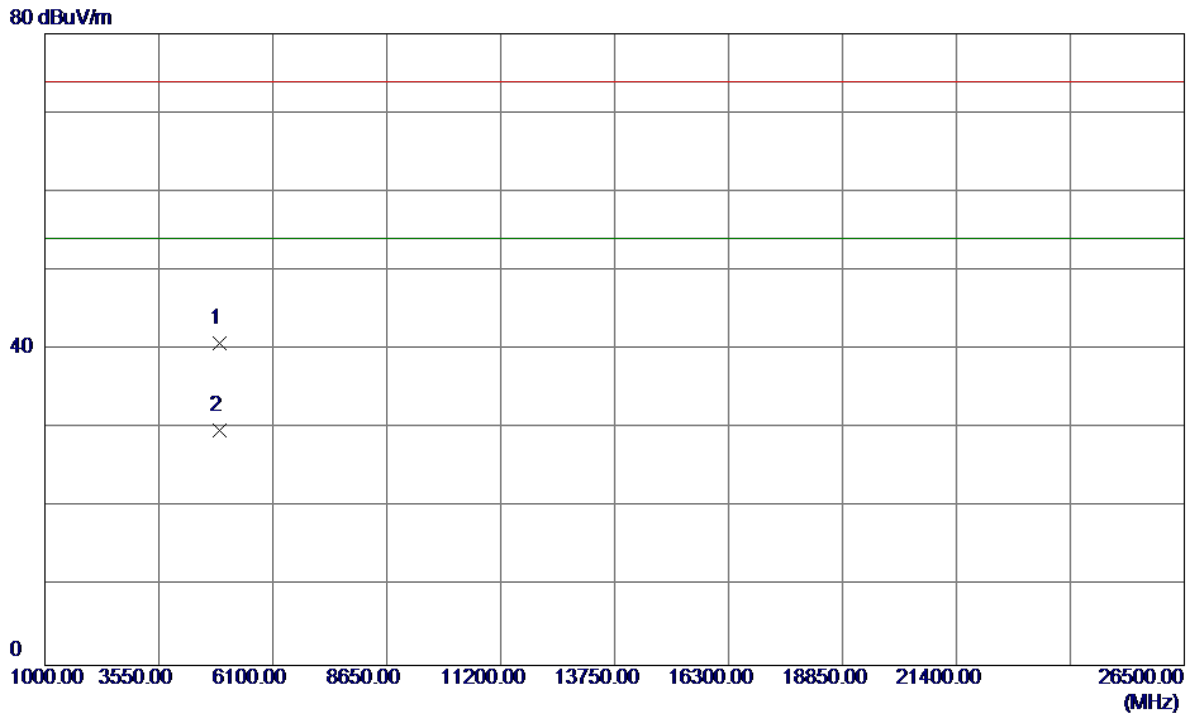
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2469.8000	71.08	34.69	105.77	74.00	31.77	Peak	NO LIMIT
2	2470.0000	58.04	34.70	92.74	54.00	38.74	AVG	NO LIMIT
3	2483.5000	25.07	34.77	59.84	74.00	-14.16	Peak	
4	2483.5000	14.01	34.77	48.78	54.00	-5.22	AVG	

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

Horizontal

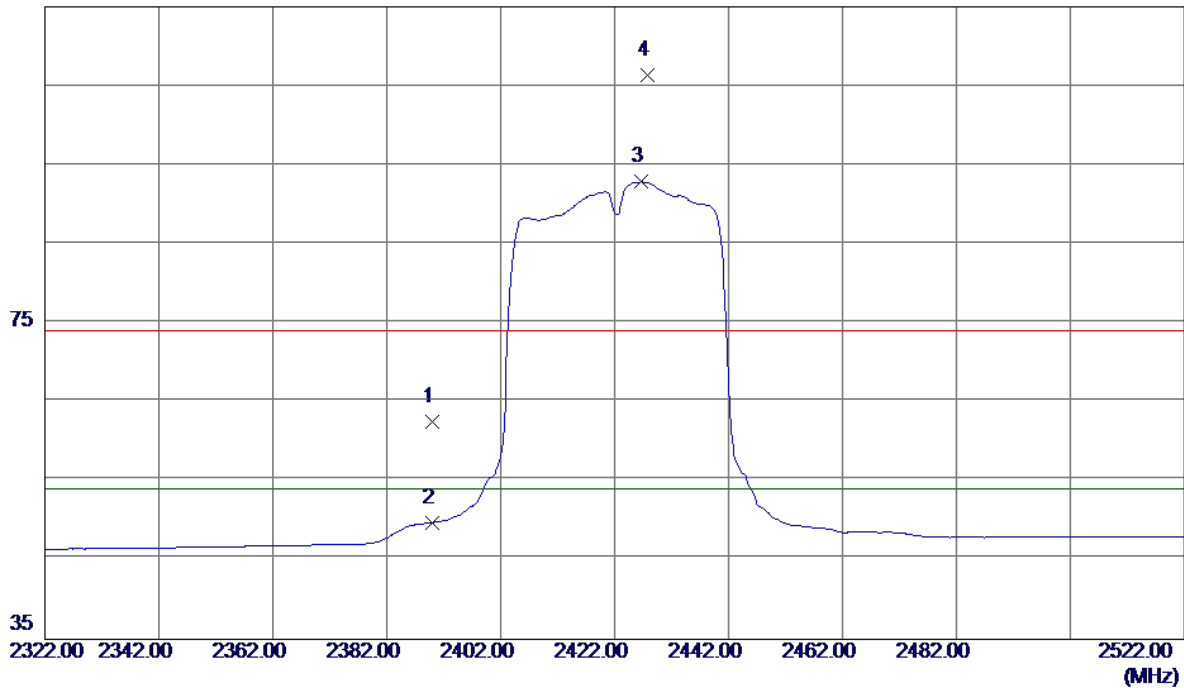


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4922.0000	37.82	3.05	40.87	74.00	-33.13	Peak	
2	4923.5000	26.65	3.05	29.70	54.00	-24.30	AVG	

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

Vertical

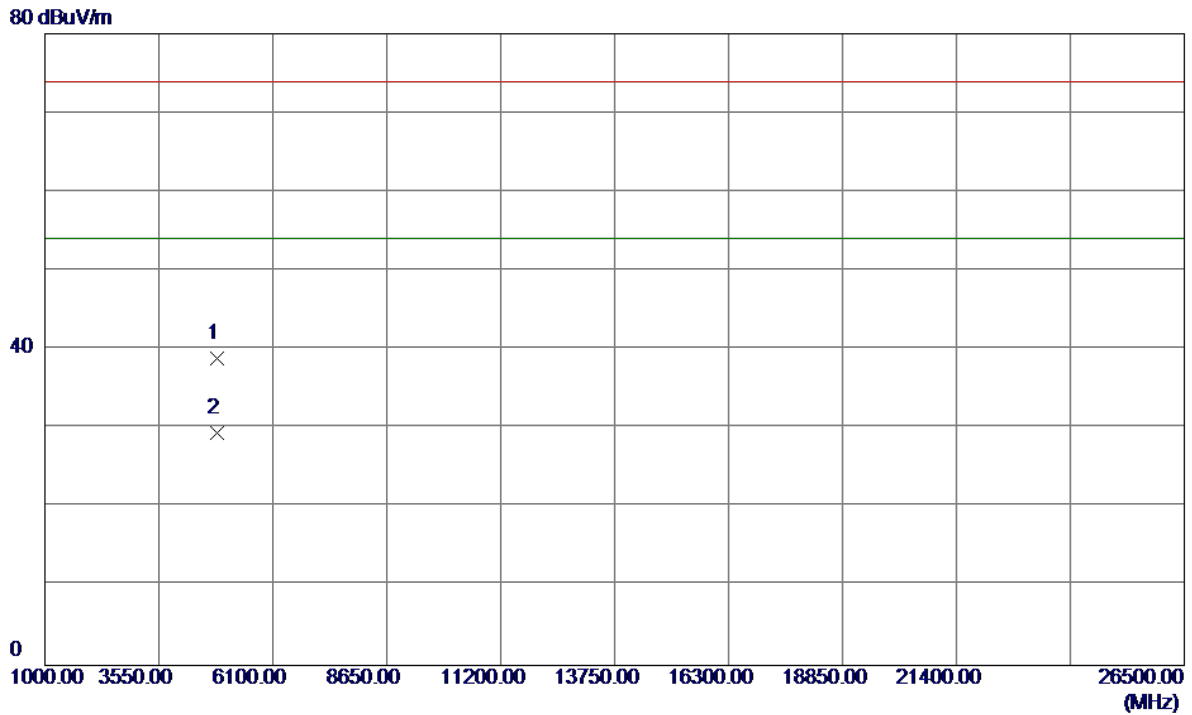
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	28.25	34.23	62.48	74.00	-11.52	Peak	
2	2390.0000	15.52	34.23	49.75	54.00	-4.25	AVG	
3	2426.6000	58.41	34.44	92.85	54.00	38.85	AVG	NO LIMIT
4	2427.8000	71.97	34.45	106.42	74.00	32.42	Peak	NO LIMIT

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

Vertical

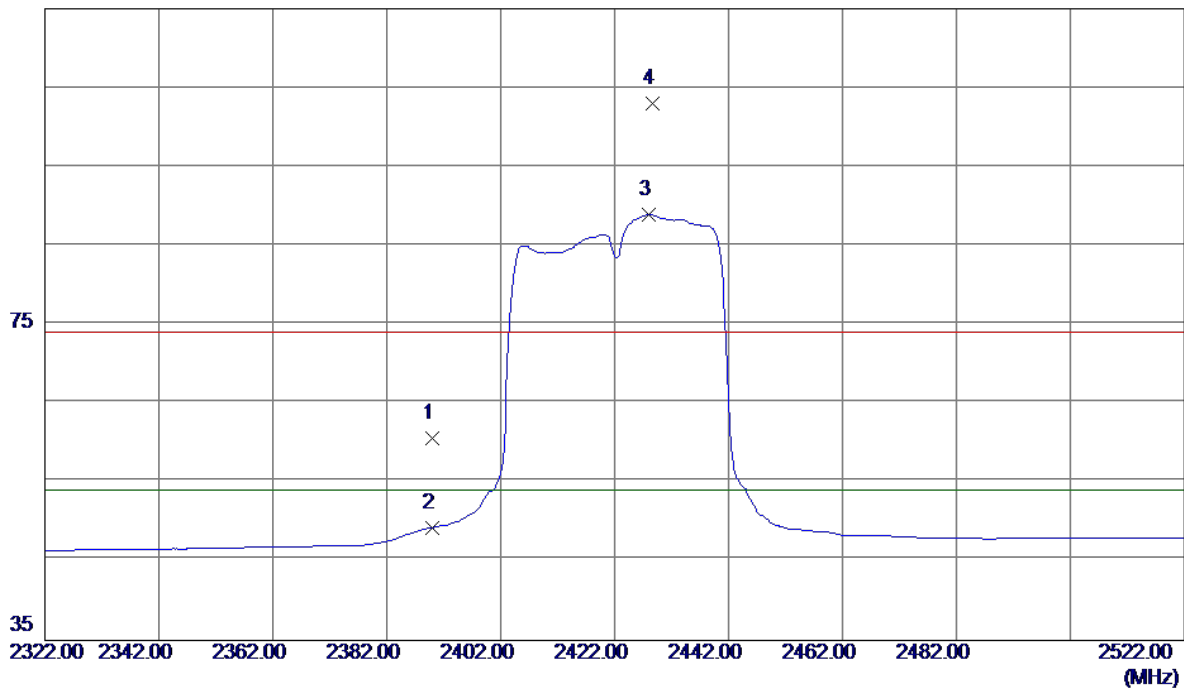


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4844.0000	35.91	3.01	38.92	74.00	-35.08	Peak	
2	4844.0000	26.44	3.01	29.45	54.00	-24.55	AVG	

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

Horizontal

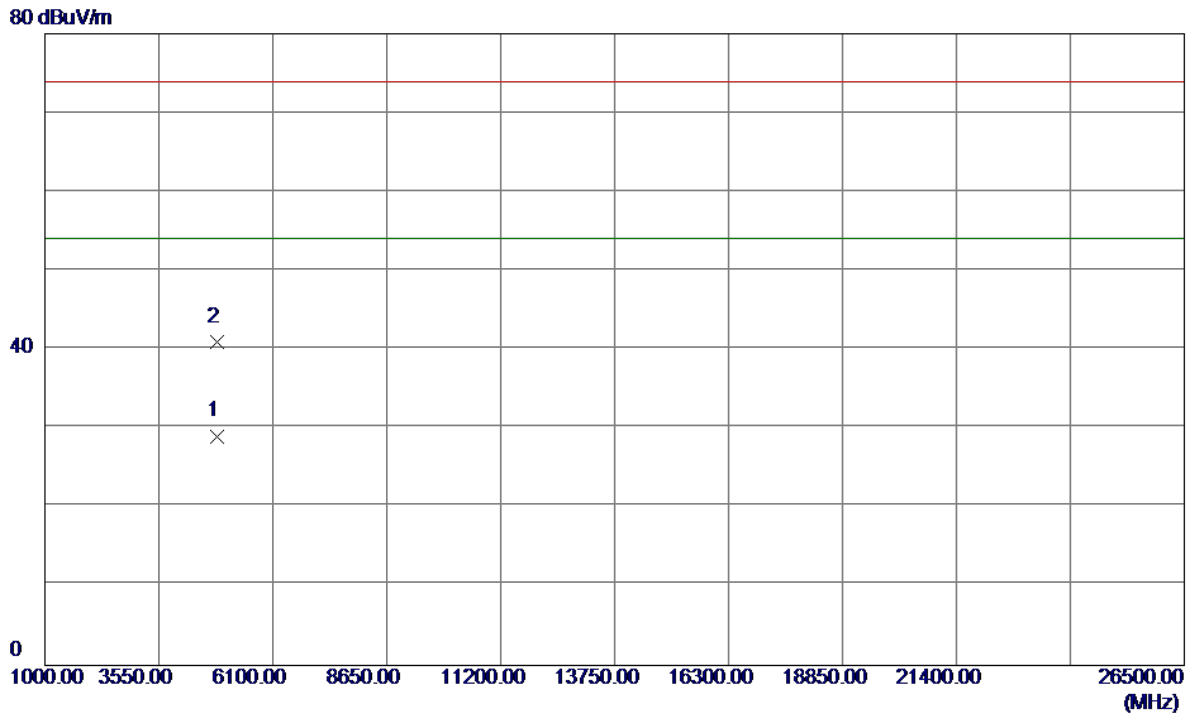
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2390.0000	26.40	34.23	60.63	74.00	-13.37	Peak	
2	2390.0000	15.04	34.23	49.27	54.00	-4.73	AVG	
3	2428.0000	54.49	34.45	88.94	54.00	34.94	AVG	NO LIMIT
4	2428.6000	68.52	34.46	102.98	74.00	28.98	Peak	NO LIMIT

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

Horizontal

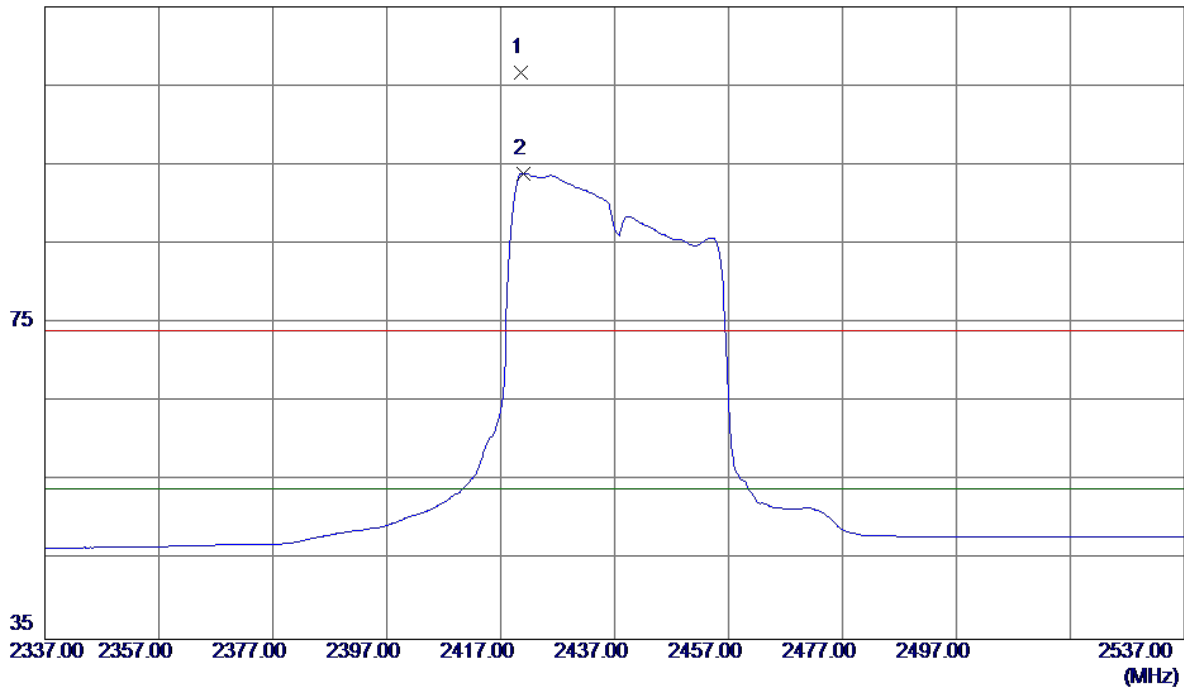


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4843.1500	26.03	3.01	29.04	54.00	-24.96	AVG	
2	4844.0500	37.94	3.01	40.95	74.00	-33.05	Peak	

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

Vertical

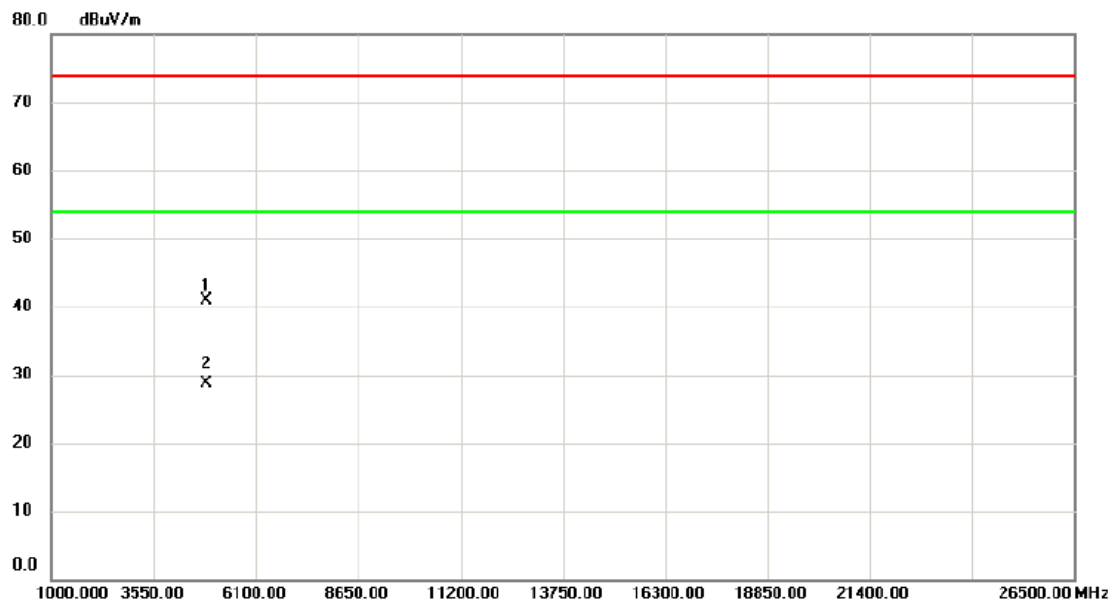
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2420.6000	72.27	34.41	106.68	74.00	32.68	Peak	NO LIMIT
2	2421.0000	59.53	34.41	93.94	54.00	39.94	AVG	NO LIMIT

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

Vertical

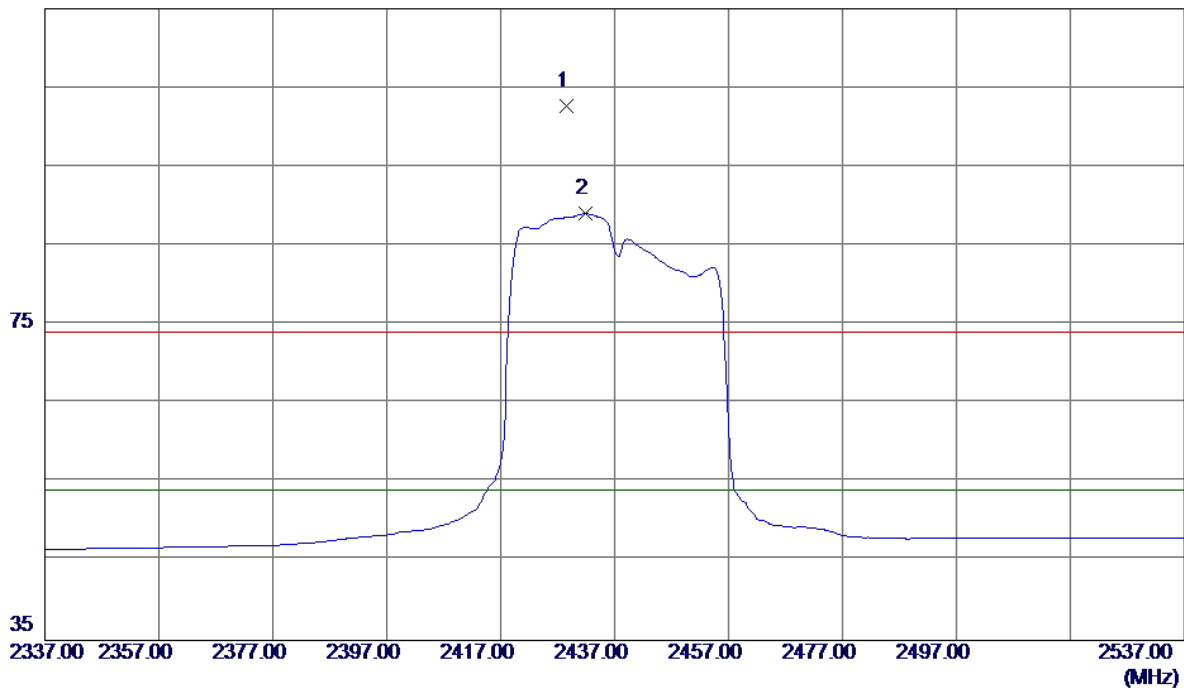


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4874.100	37.97	3.03	41.00	74.00	-33.00	peak	
2	*	4874.260	25.64	3.03	28.67	54.00	-25.33	AVG	

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

Horizontal

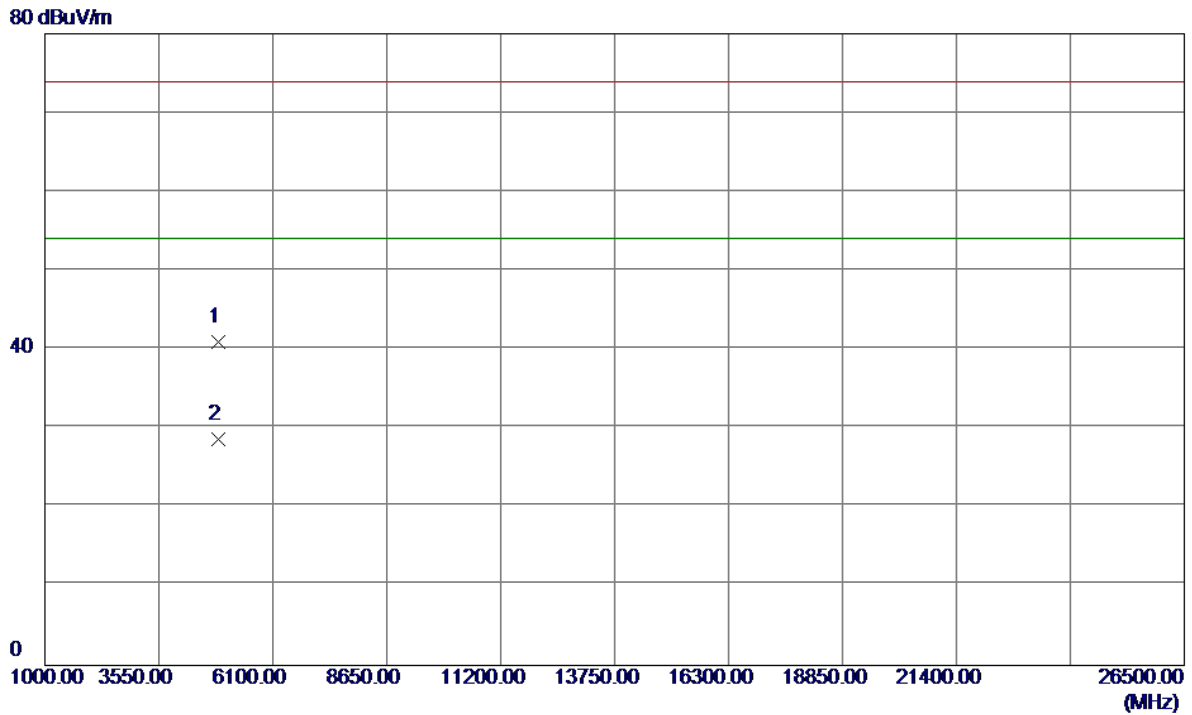
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2428.6000	68.17	34.46	102.63	74.00	28.63	Peak	NO LIMIT
2	2431.8000	54.59	34.47	89.06	54.00	35.06	AVG	NO LIMIT

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

Horizontal

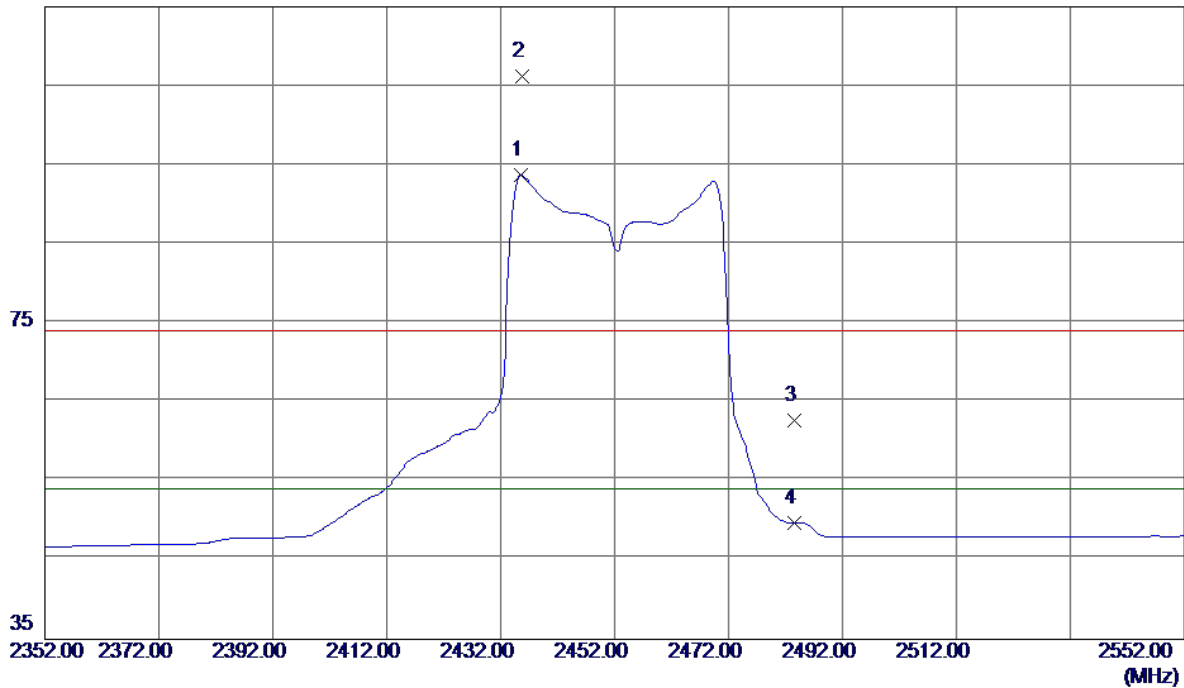


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4874.1000	37.97	3.03	41.00	74.00	-33.00	Peak	
2	4874.2599	25.64	3.03	28.67	54.00	-25.33	AVG	

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

Vertical

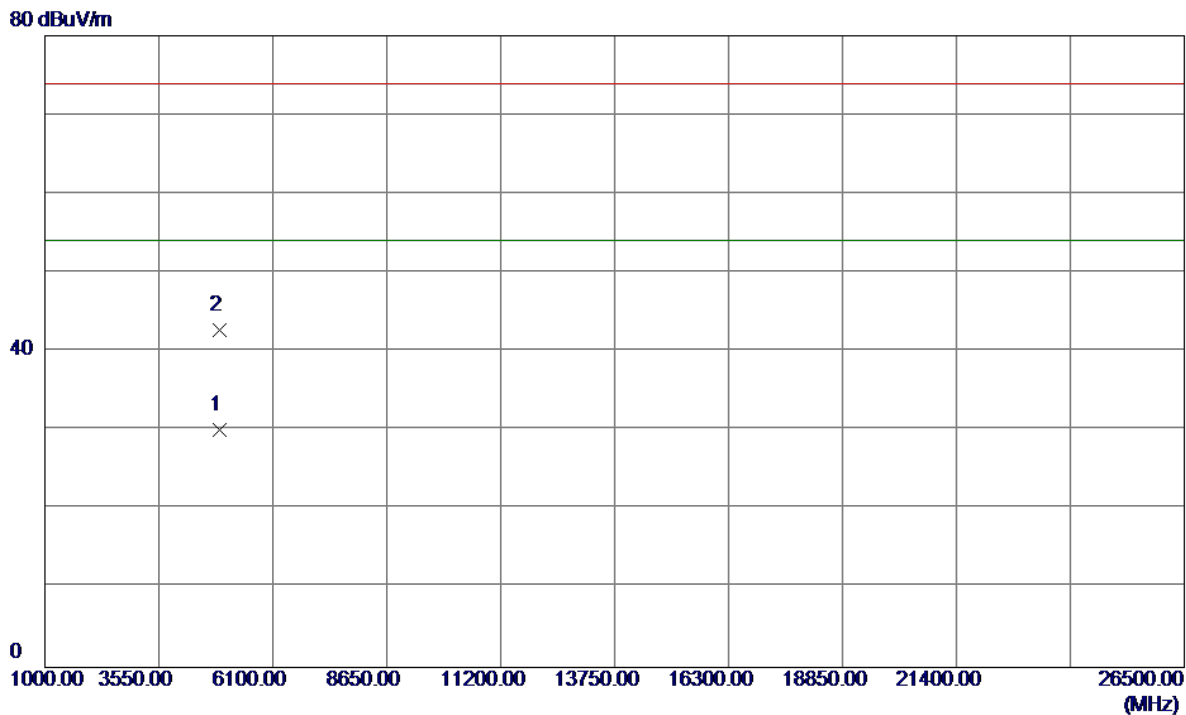
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2435.6000	59.20	34.50	93.70	54.00	39.70	AVG	NO LIMIT
2	2435.8000	71.70	34.50	106.20	74.00	32.20	Peak	NO LIMIT
3	2483.5000	27.94	34.77	62.71	74.00	-11.29	Peak	
4	2483.5000	14.91	34.77	49.68	54.00	-4.32	AVG	

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

Vertical

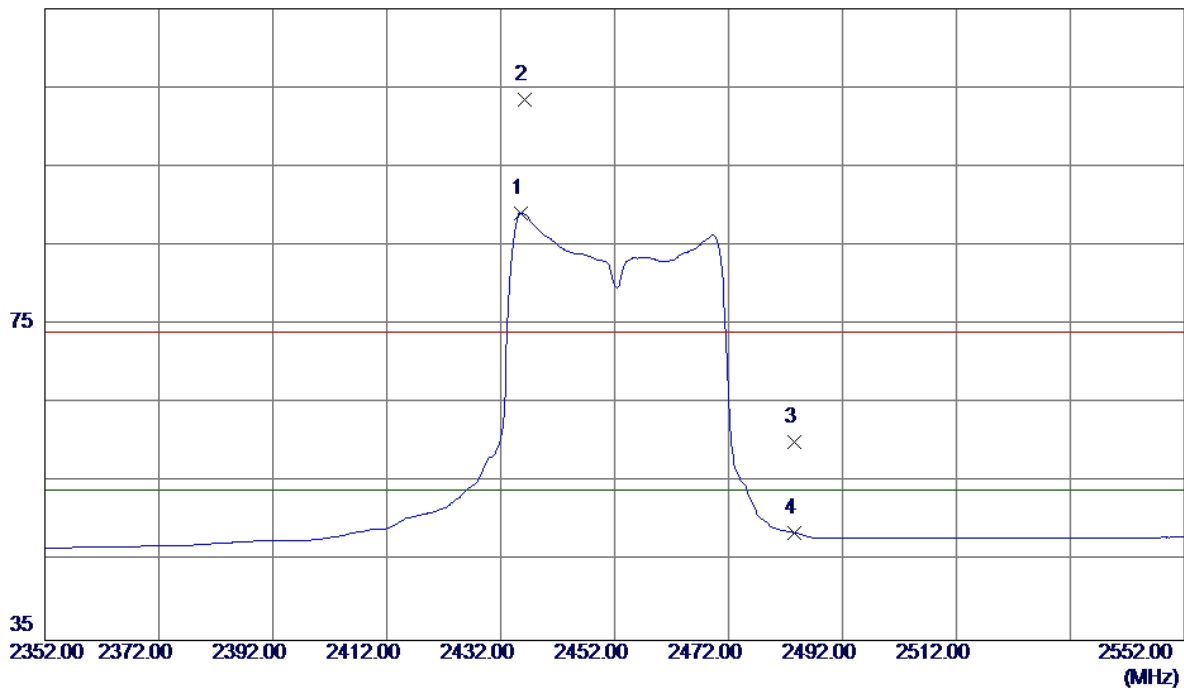


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4903.9960	27.02	3.04	30.06	54.00	-23.94	AVG	
2	4903.9760	39.62	3.04	42.66	74.00	-31.34	Peak	

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

Horizontal

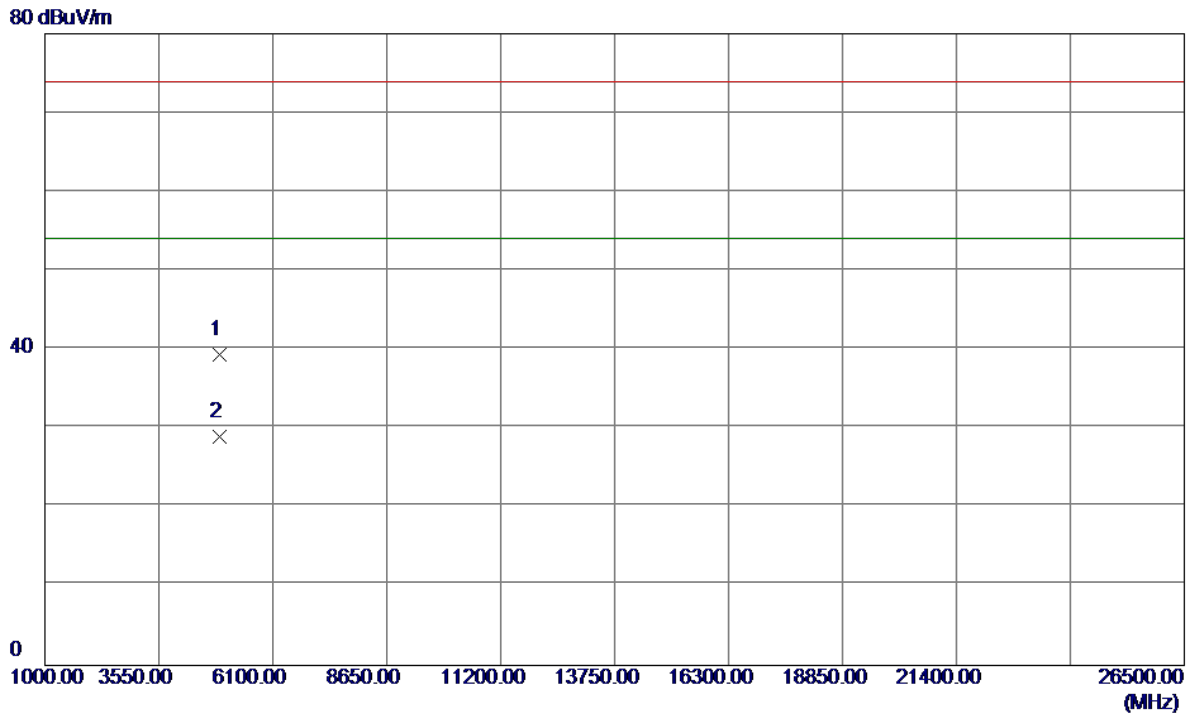
115 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	2435.6000	54.63	34.50	89.13	54.00	35.13	AVG	NO LIMIT
2	2436.2000	68.94	34.50	103.44	74.00	29.44	Peak	NO LIMIT
3	2483.5000	25.35	34.77	60.12	74.00	-13.88	Peak	
4	2483.5000	13.88	34.77	48.65	54.00	-5.35	AVG	

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

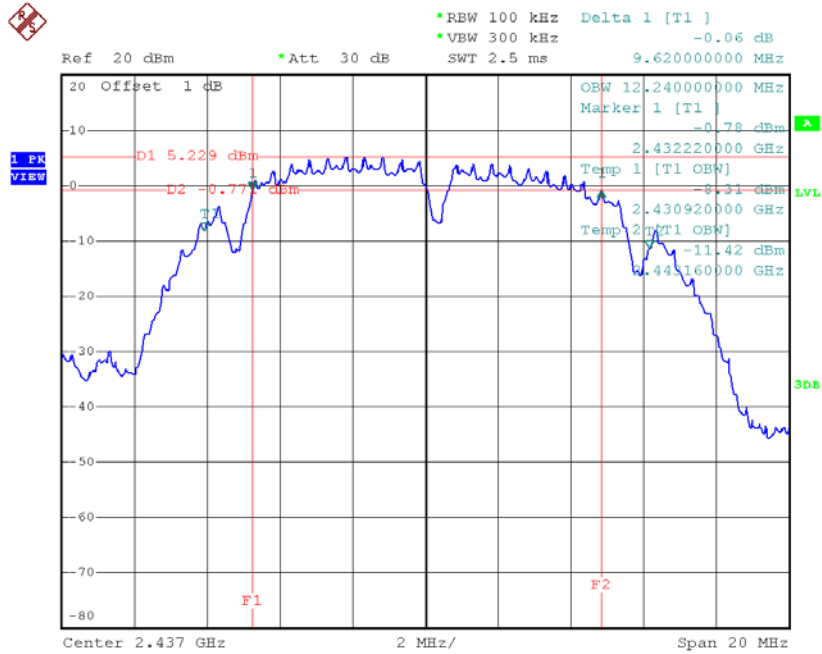
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	4904.0110	36.32	3.04	39.36	74.00	-34.64	Peak	
2	4904.0110	25.87	3.04	28.91	54.00	-25.09	AVG	

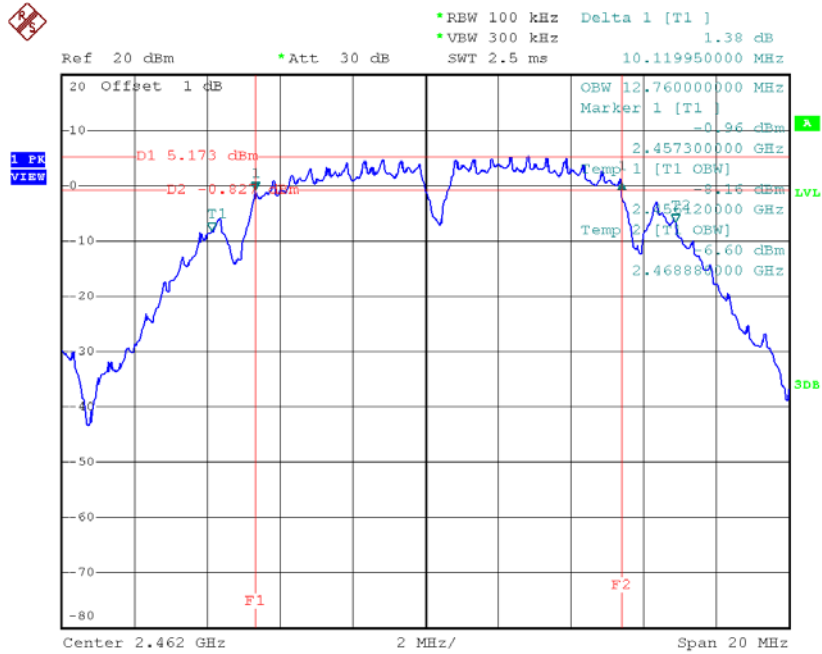
ATTACHMENT E - BANDWIDTH

TX CH06



Date: 14.SEP.2015 10:10:23

TX CH11

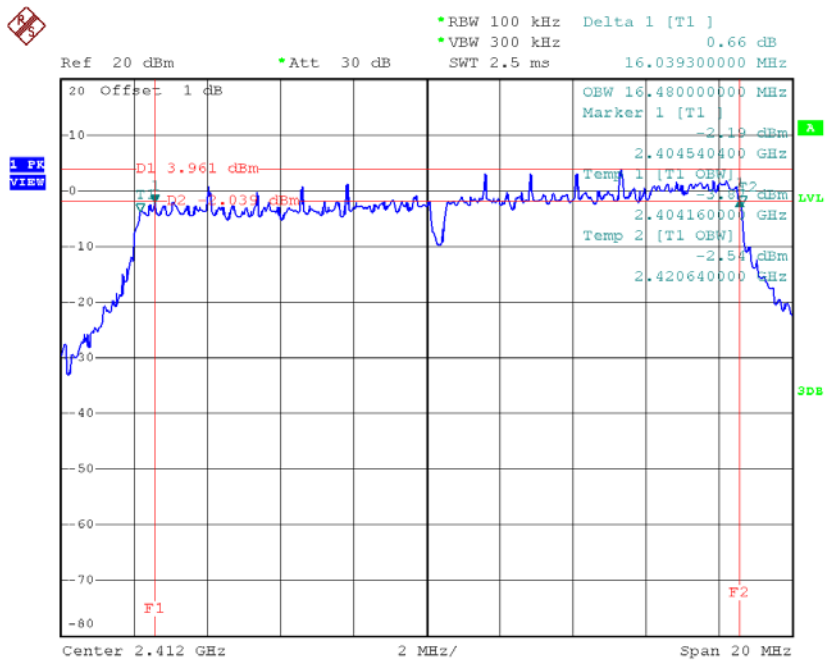


Date: 14.SEP.2015 10:12:43

Test Mode: TX G Mode_CH01/06/11

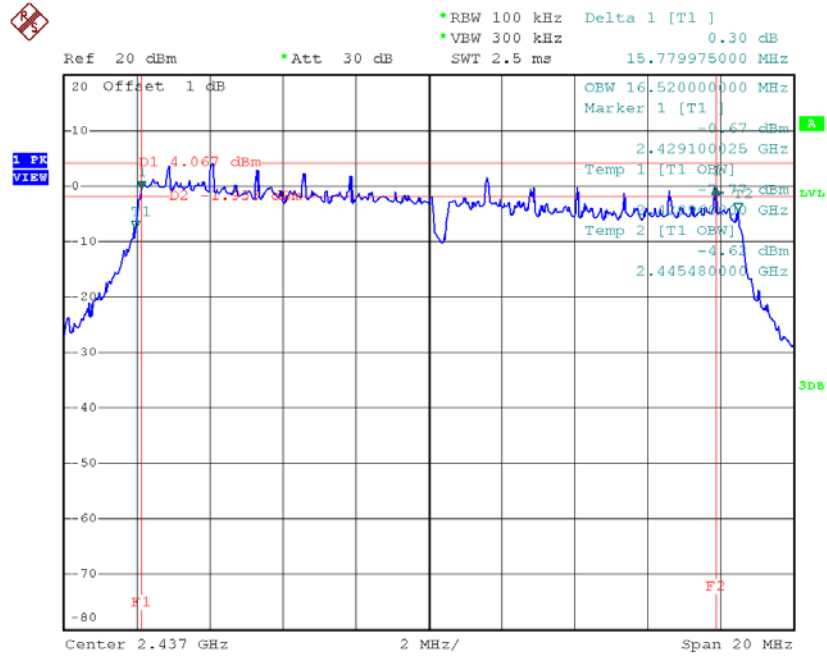
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.04	16.48	500	Complies
2437	15.78	16.52	500	Complies
2462	16.50	16.60	500	Complies

TX CH01



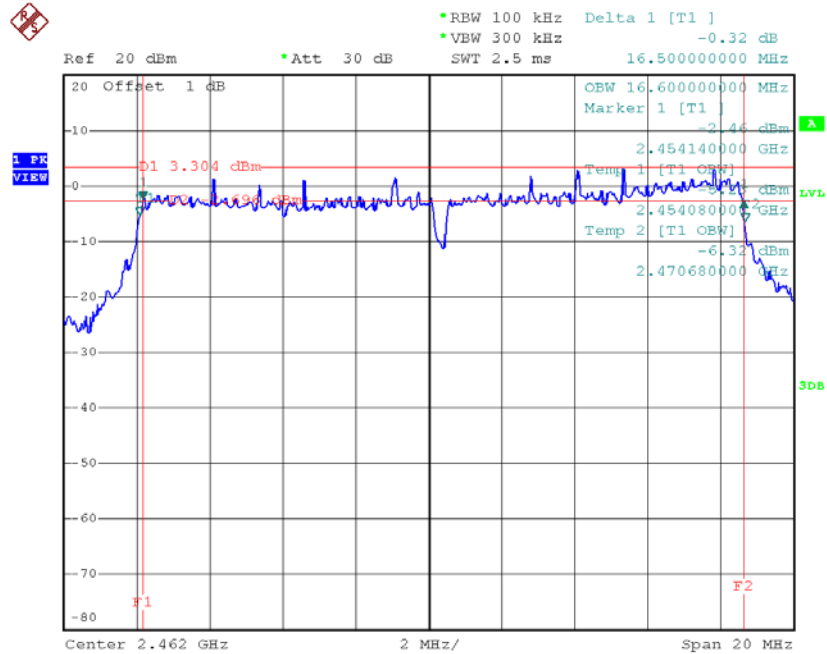
Date: 14.SEP.2015 10:40:52

TX CH06



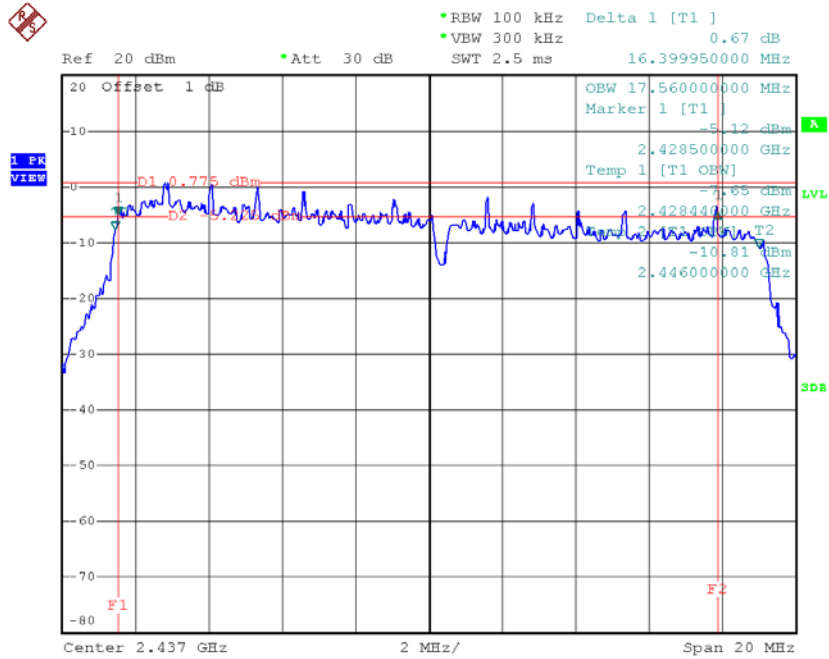
Date: 14.SEP.2015 10:42:35

TX CH11



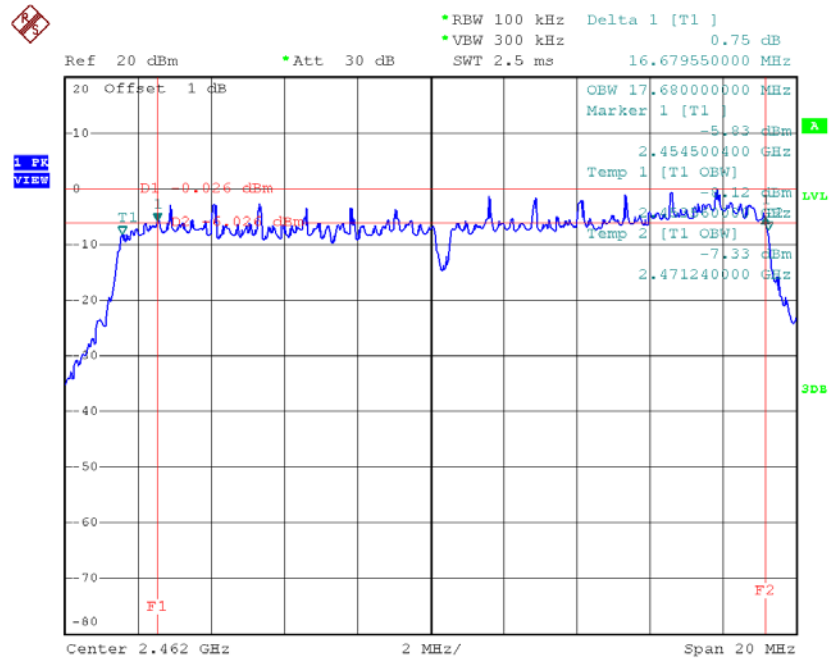
Date: 14.SEP.2015 10:44:02

TX CH06



Date: 14.SEP.2015 10:54:20

TX CH11

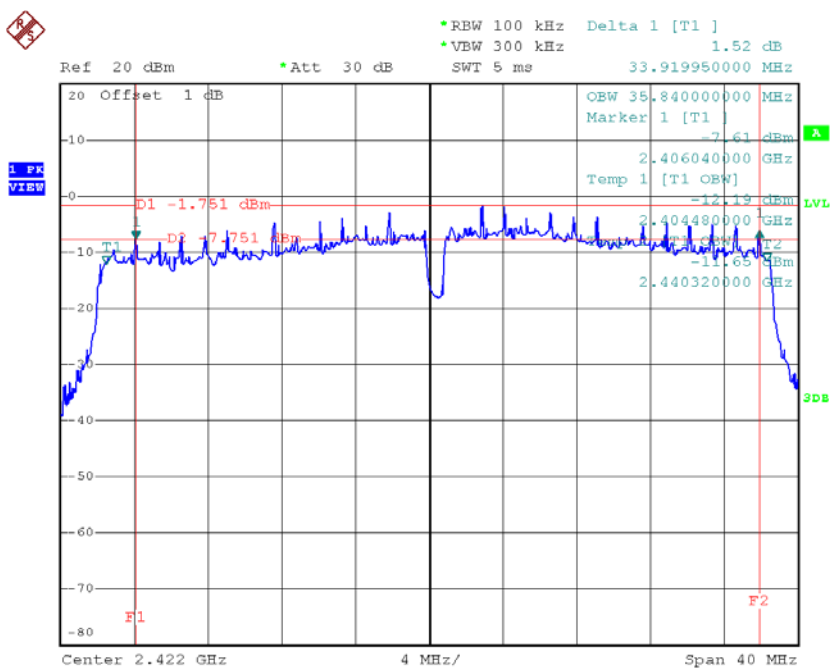


Date: 14.SEP.2015 10:56:09

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

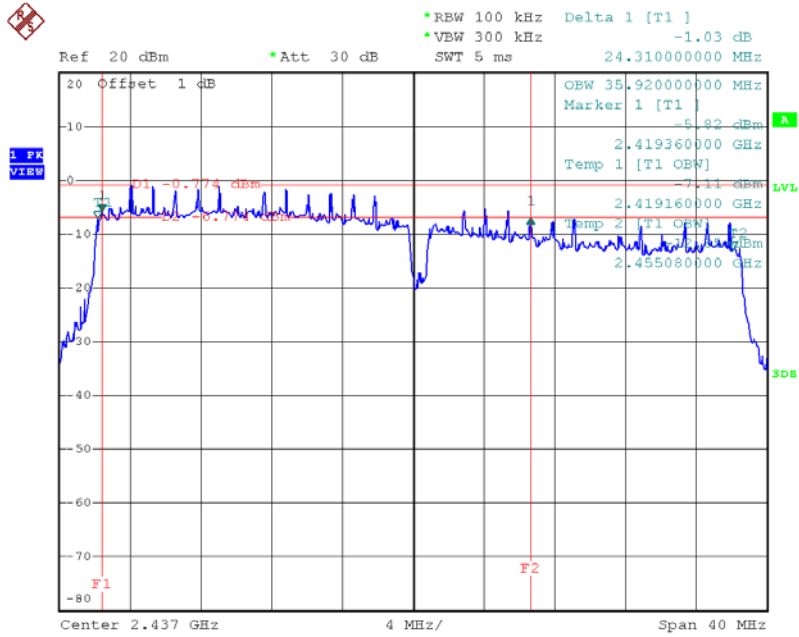
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	33.92	35.84	500	Complies
2437	24.31	35.92	500	Complies
2452	35.84	36.48	500	Complies

TX CH03



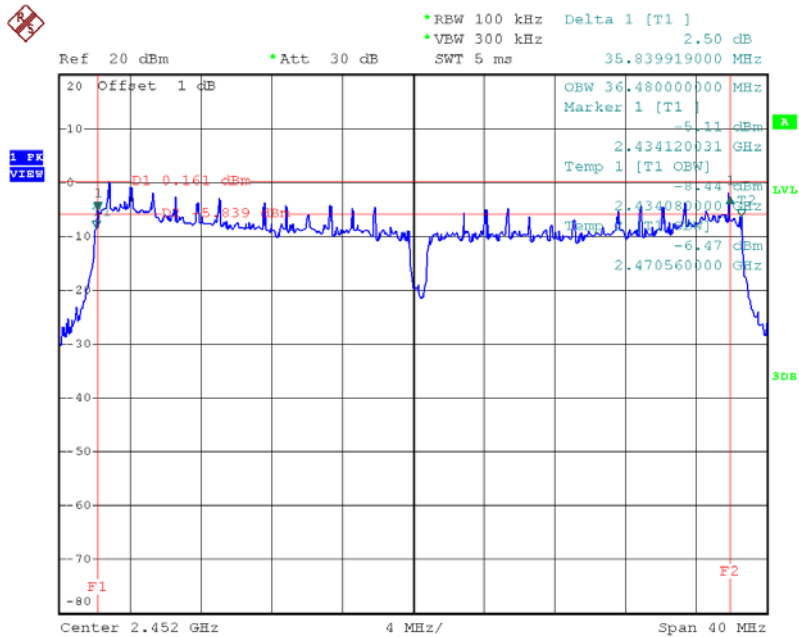
Date: 14.SEP.2015 11:25:23

TX CH06



Date: 14.SEP.2015 11:27:44

TX CH09



Date: 14.SEP.2015 11:30:07

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	18.02	0.06	30.00	1.00	Complies
2437	17.83	0.06	30.00	1.00	Complies
2462	17.78	0.06	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	21.92	0.16	30.00	1.00	Complies
2437	21.50	0.14	30.00	1.00	Complies
2462	21.14	0.13	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.71	0.07	30.00	1.00	Complies
2437	17.96	0.06	30.00	1.00	Complies
2462	18.64	0.07	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	17.80	0.06	30.00	1.00	Complies
2437	18.01	0.06	30.00	1.00	Complies
2462	17.43	0.06	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.29	0.13	30.00	1.00	Complies
2437	21.00	0.13	30.00	1.00	Complies
2462	21.09	0.13	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	20.52	0.11	30.00	1.00	Complies
2437	18.72	0.07	30.00	1.00	Complies
2452	20.80	0.12	30.00	1.00	Complies

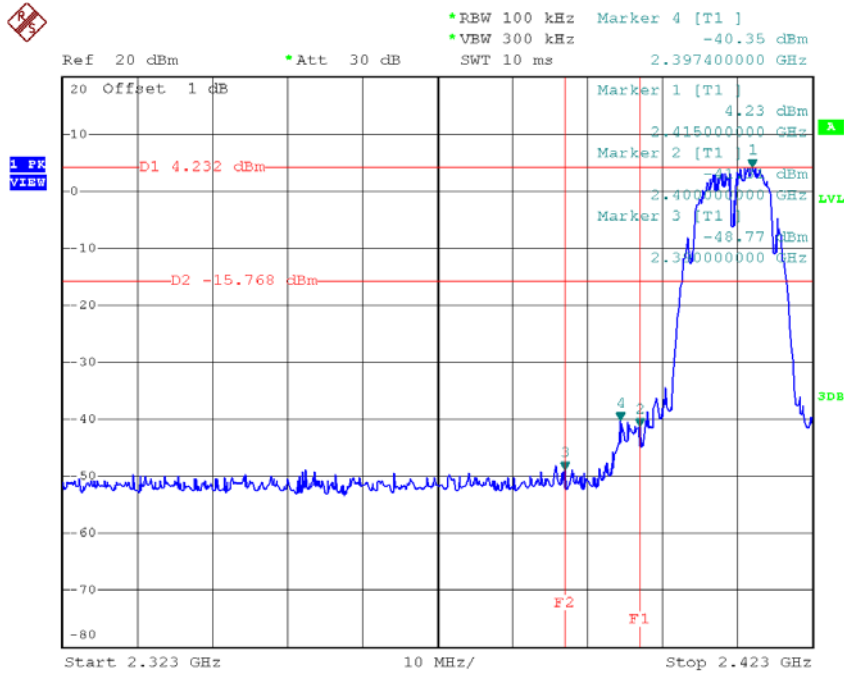
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	18.02	0.06	30.00	1.00	Complies
2437	18.27	0.07	30.00	1.00	Complies
2452	19.32	0.09	30.00	1.00	Complies

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	22.46	0.18	30.00	1.00	Complies
2437	21.51	0.14	30.00	1.00	Complies
2452	23.13	0.21	30.00	1.00	Complies

**ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS
EMISSION**

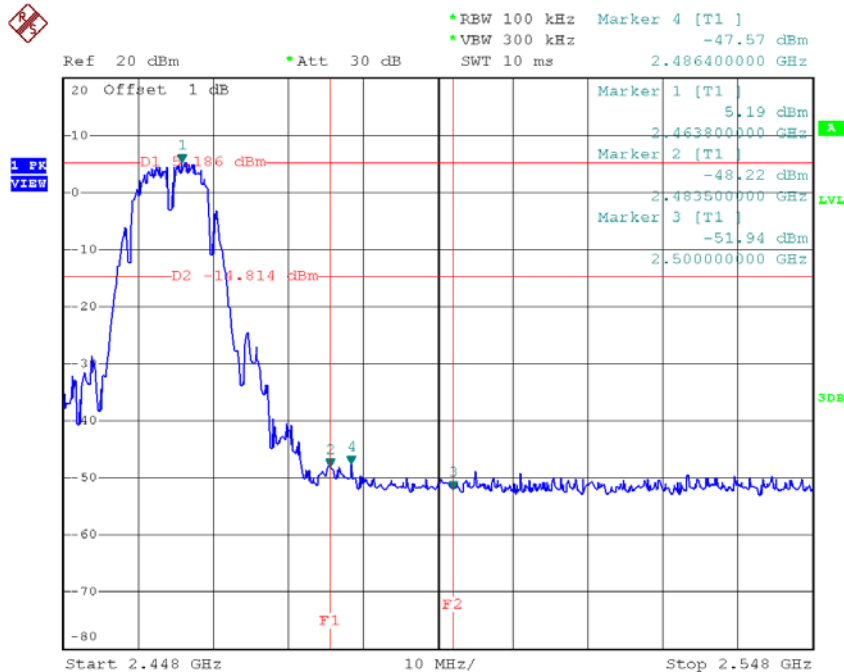
Test Mode :	TX B Mode
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TX B mode CH01



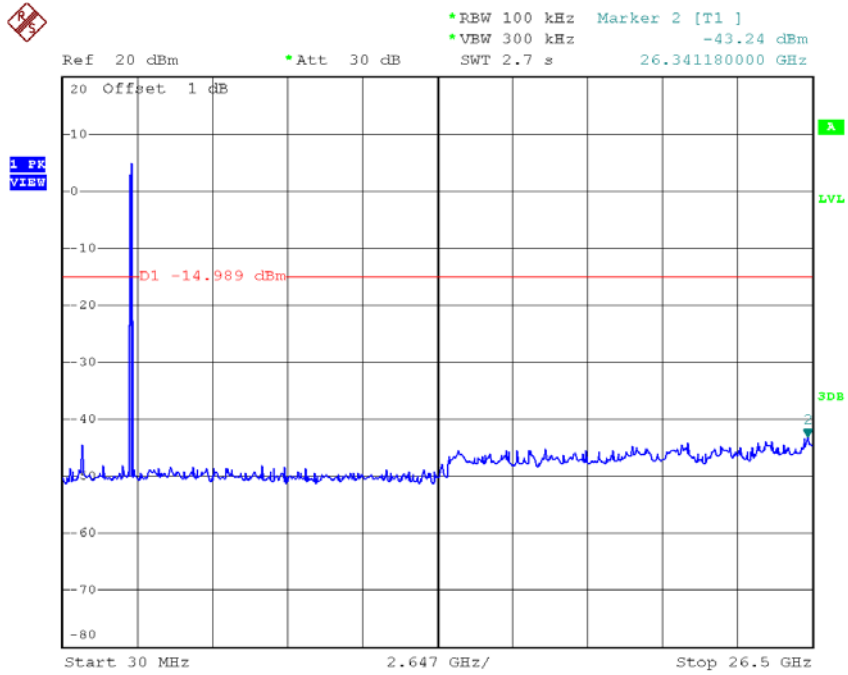
Date: 14.SEP.2015 10:07:39

TX B mode CH11



Date: 14.SEP.2015 10:13:05

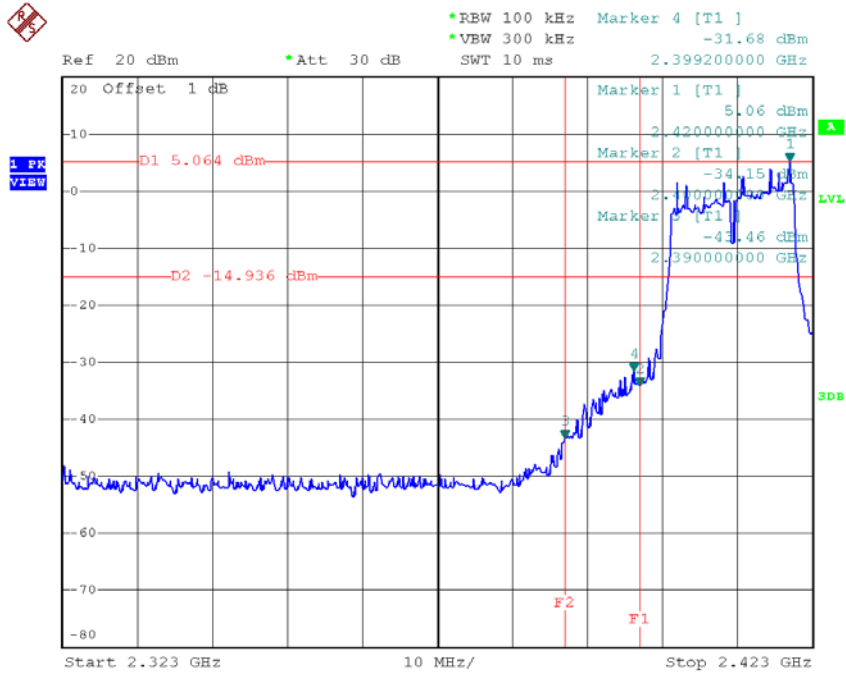
TX B mode CH11 (10 Harmonic of the frequency)



Date: 14.SEP.2015 10:12:57

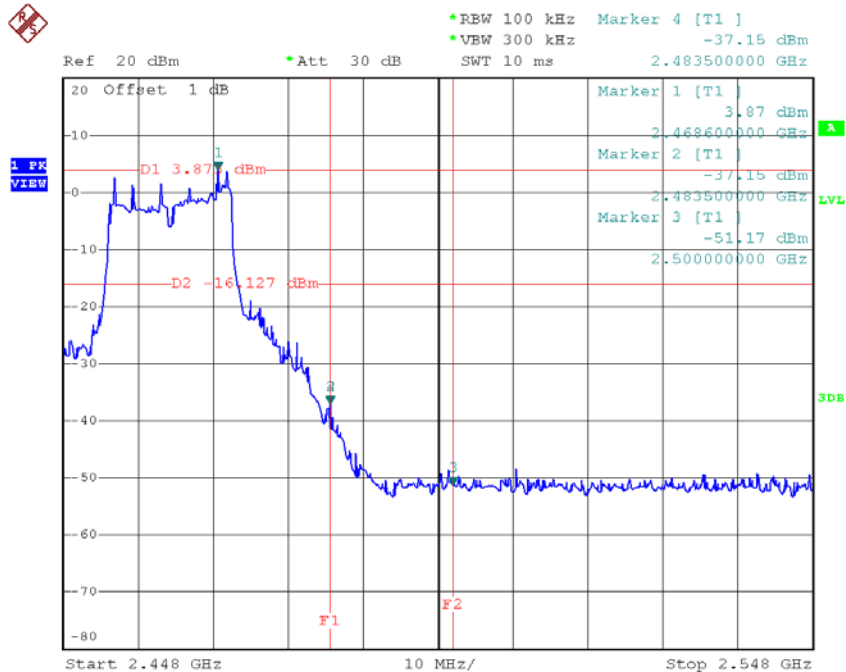
Test Mode :	TX G Mode
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TX G mode CH01



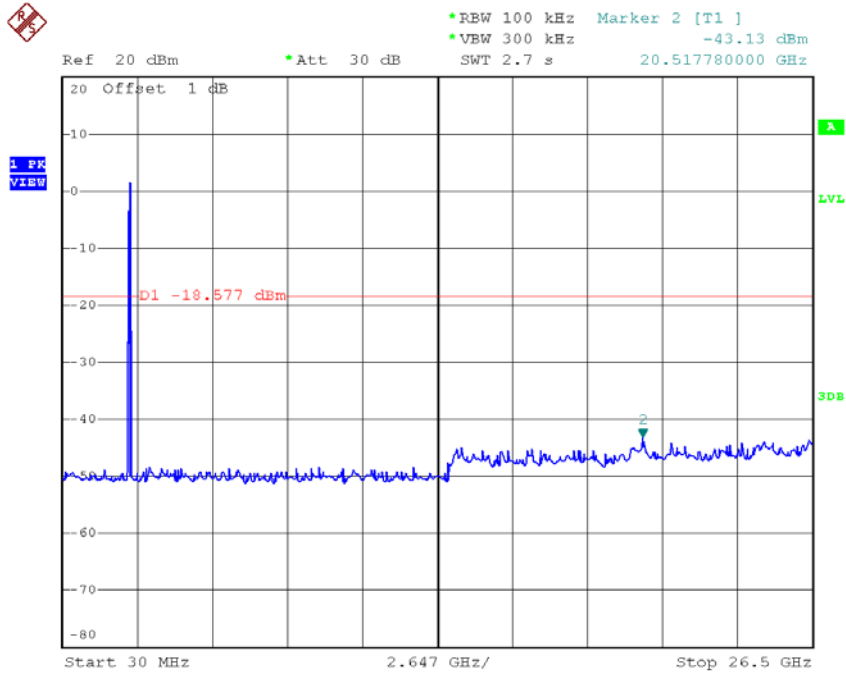
Date: 14.SEP.2015 10:41:13

TX G mode CH11



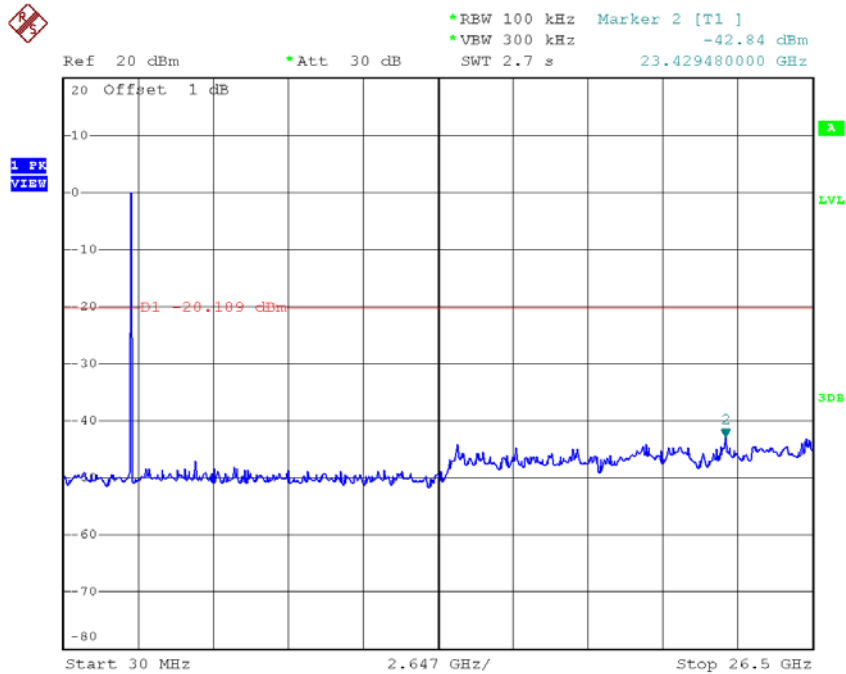
Date: 14.SEP.2015 10:44:24

TX G mode CH01 (10 Harmonic of the frequency)



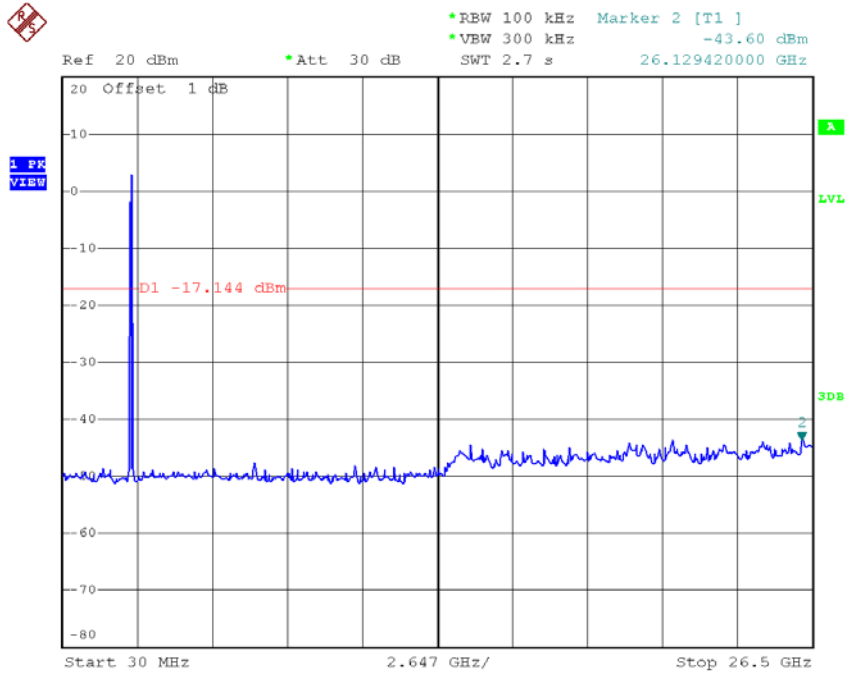
Date: 14.SEP.2015 10:41:06

TX G mode CH06 (10 Harmonic of the frequency)



Date: 14.SEP.2015 10:42:49

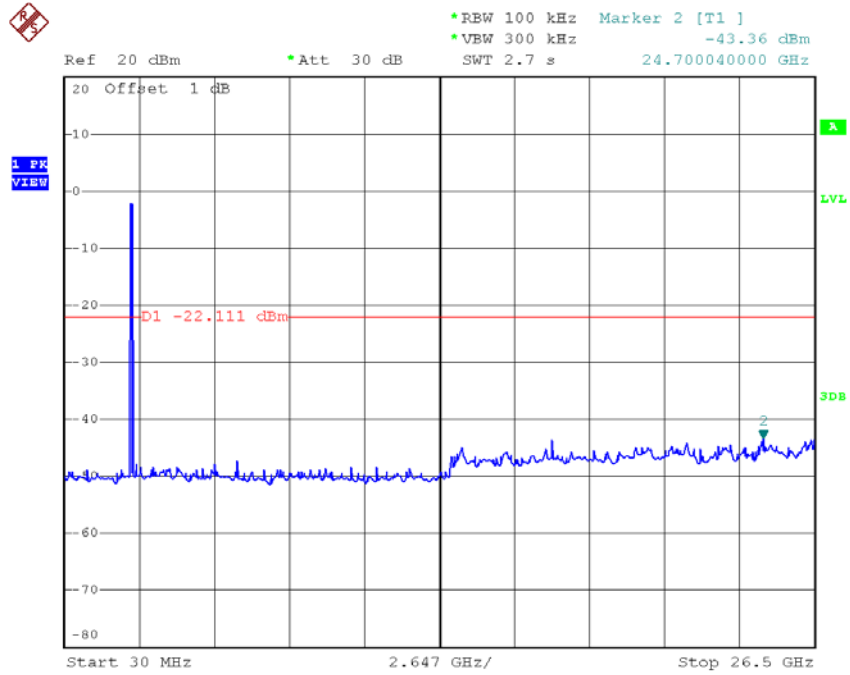
TX G mode CH11 (10 Harmonic of the frequency)



Date: 14.SEP.2015 10:44:17

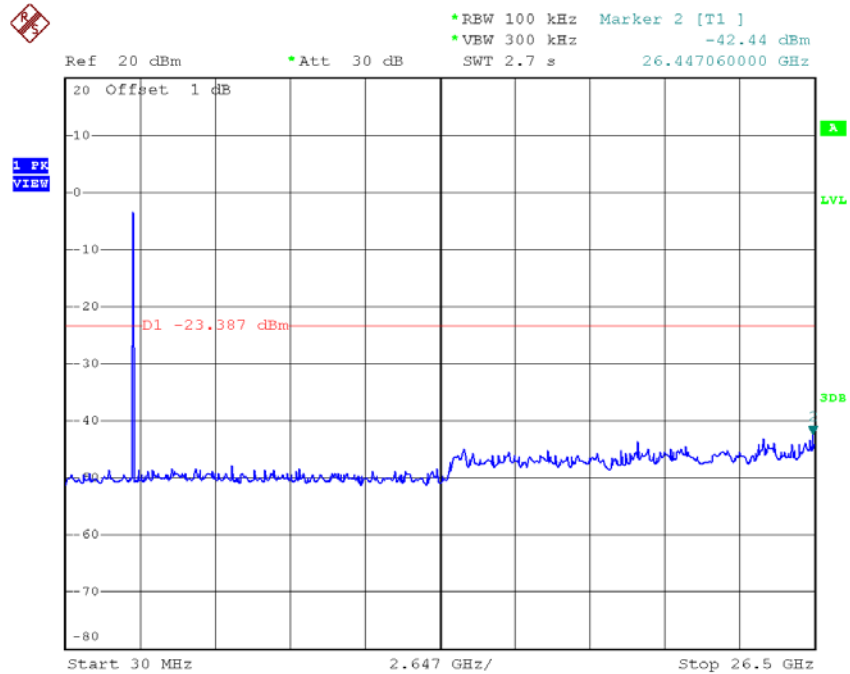
Test Mode :	TX N-20M Mode_ANT 1
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TX HT20 mode CH01 (10 Harmonic of the frequency)



Date: 14.SEP.2015 10:52:32

TX HT20 mode CH06 (10 Harmonic of the frequency)

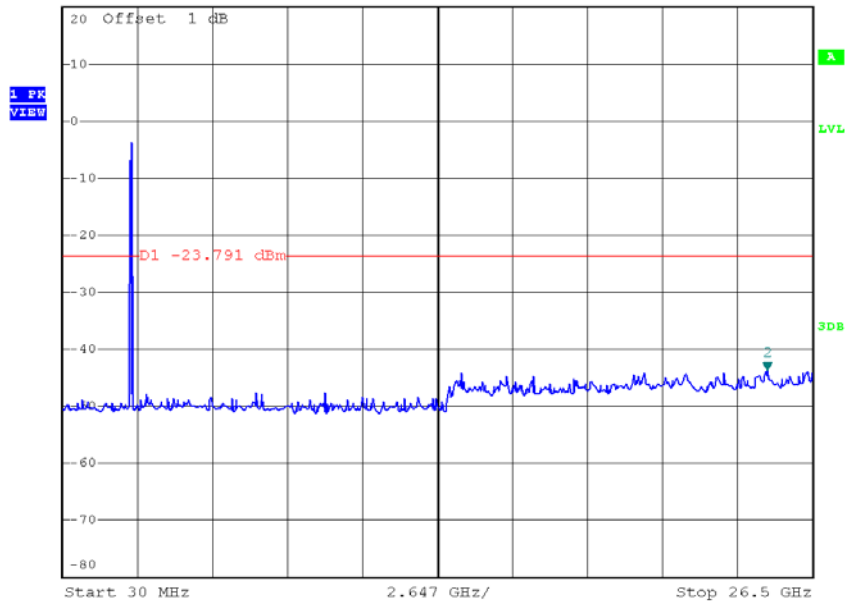


Date: 14.SEP.2015 10:54:35

TX HT20 mode CH11 (10 Harmonic of the frequency)



*REW 100 kHz Marker 2 [T1]
 *VBW 300 kHz -43.69 dBm
 Ref 20 dBm *Att 30 dB SWT 2.7 s 24.911800000 GHz



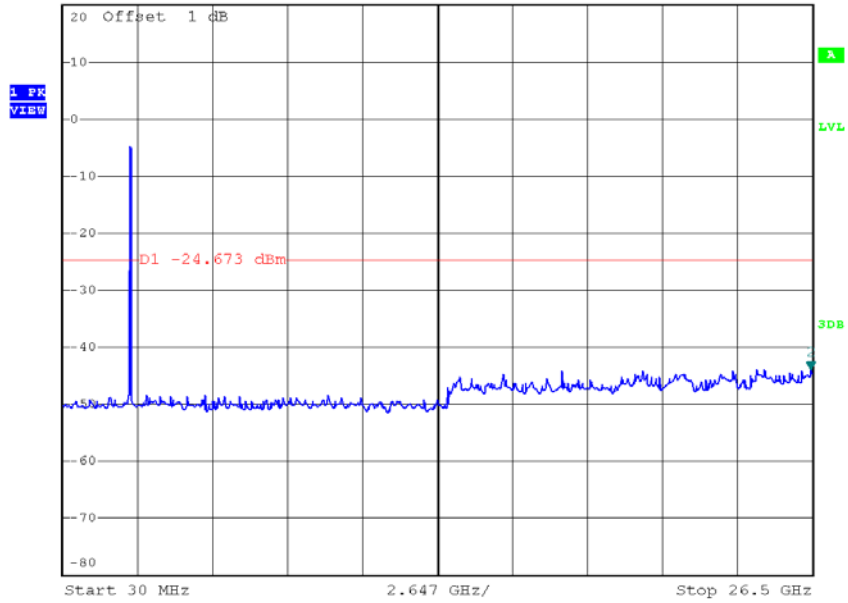
Date: 14.SEP.2015 10:56:24

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



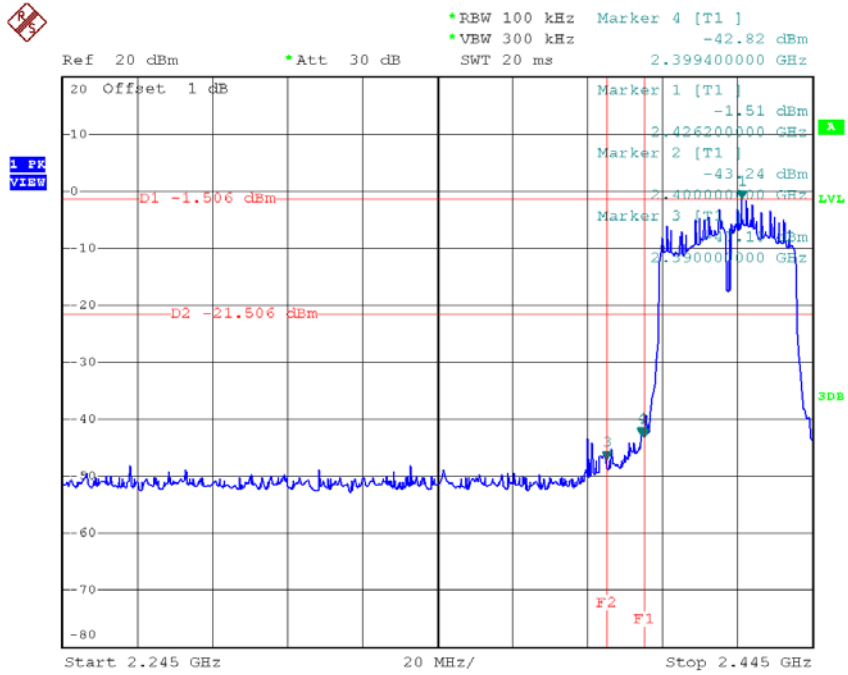
Ref 20 dBm *Att 30 dB *REW 100 kHz Marker 2 [T1]
*VBW 300 kHz -43.82 dBm
SWT 2.7 s 26.447060000 GHz



Date: 14.SEP.2015 11:36:03

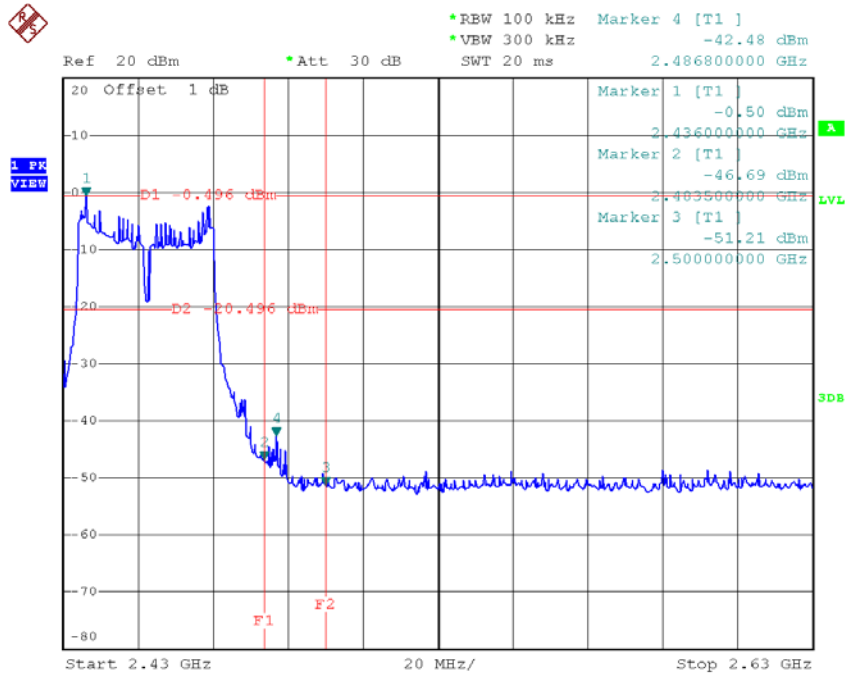
Test Mode :	TX N-40M Mode_ANT 1
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TX HT40 mode CH03



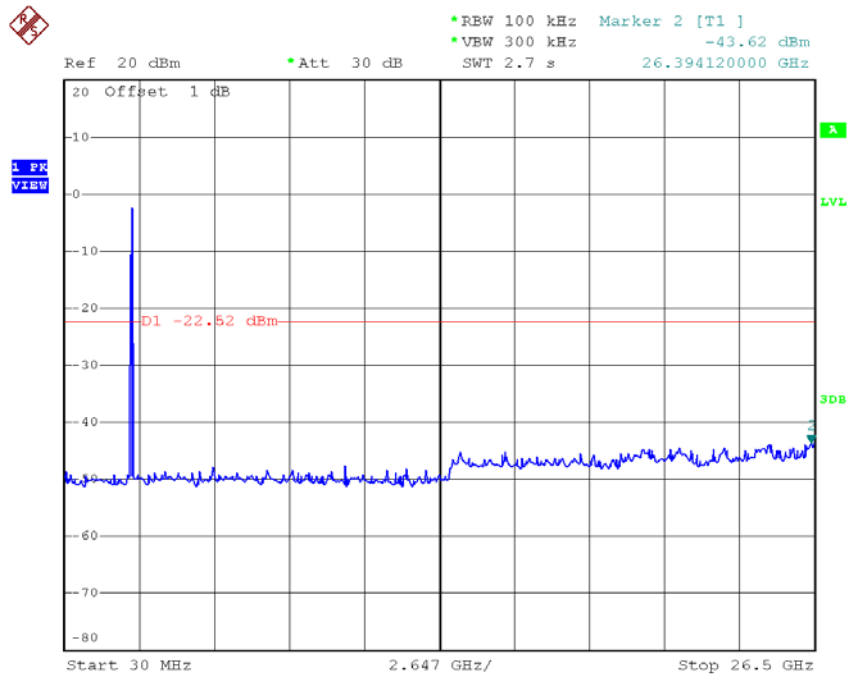
Date: 14.SEP.2015 11:25:45

TX HT40 mode CH09



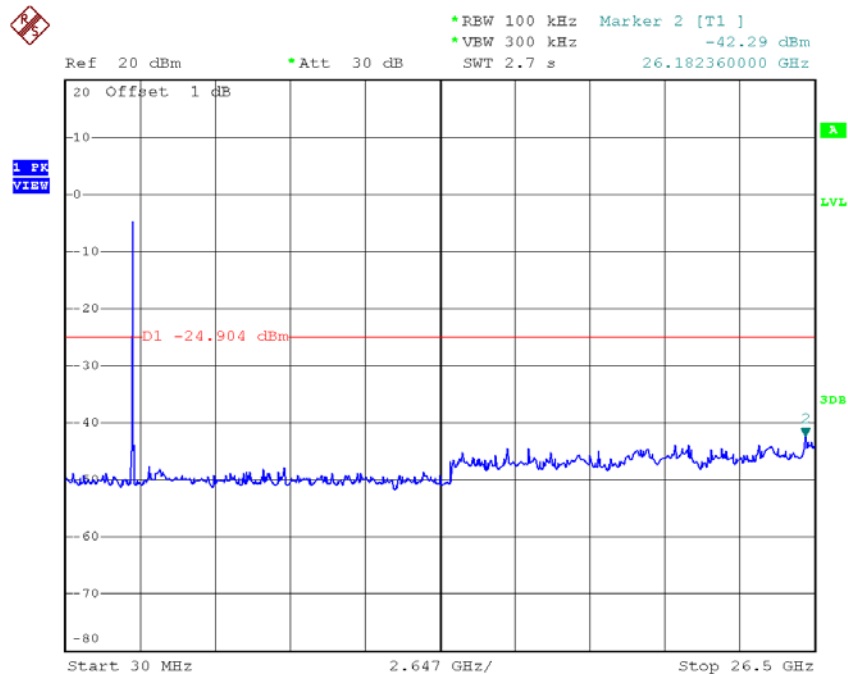
Date: 14.SEP.2015 11:30:29

TX HT40 mode CH03 (10 Harmonic of the frequency)



Date: 14.SEP.2015 11:25:38

TX HT40 mode CH06 (10 Harmonic of the frequency)

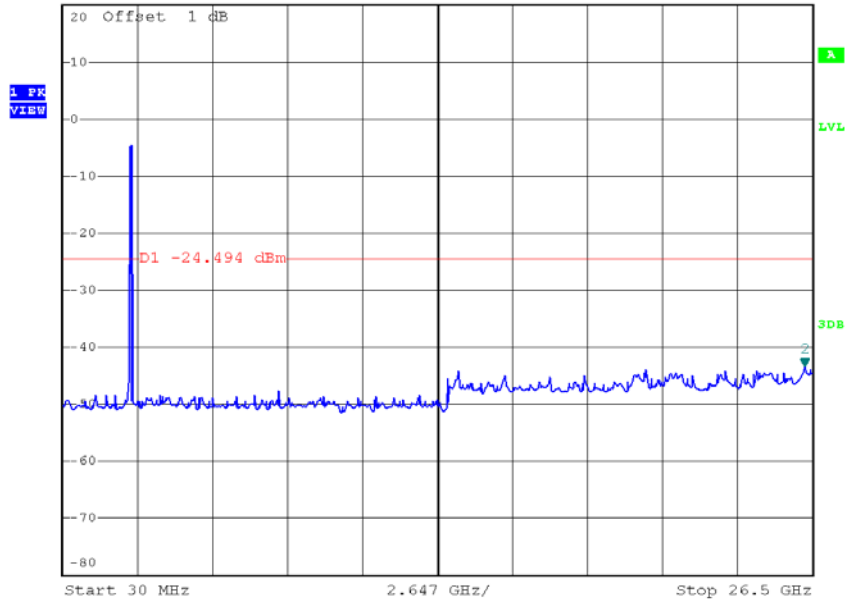


Date: 14.SEP.2015 11:27:58

TX HT40 mode CH09 (10 Harmonic of the frequency)



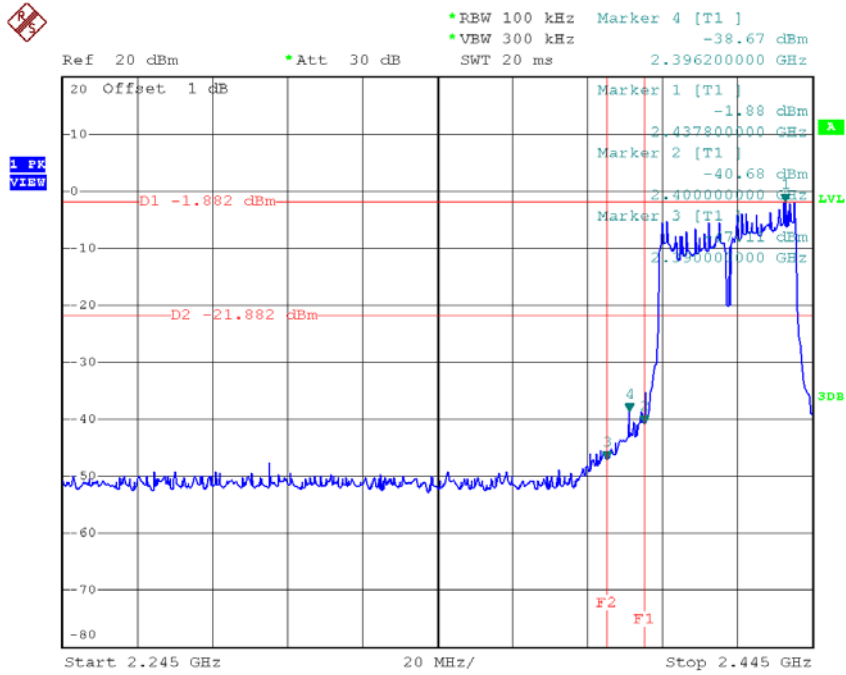
Ref 20 dBm *Att 30 dB *REW 100 kHz Marker 2 [T1]
*VBW 300 kHz -43.35 dBm
SWT 2.7 s 26.235300000 GHz



Date: 14.SEP.2015 11:30:21

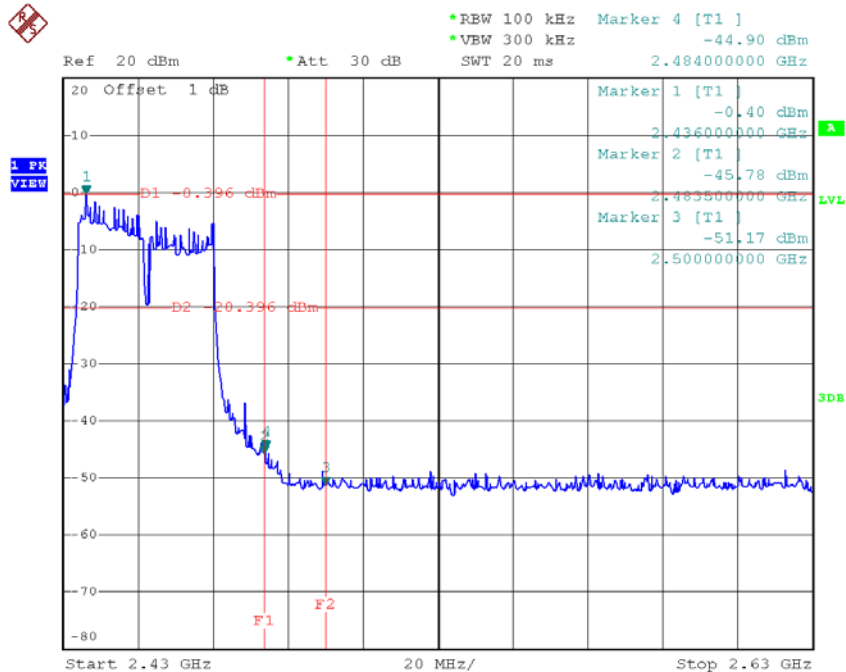
Test Mode :	TX N-40M Mode_ANT 2
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TX HT40 mode CH03



Date: 14.SEP.2015 11:37:38

TX HT40 mode CH09

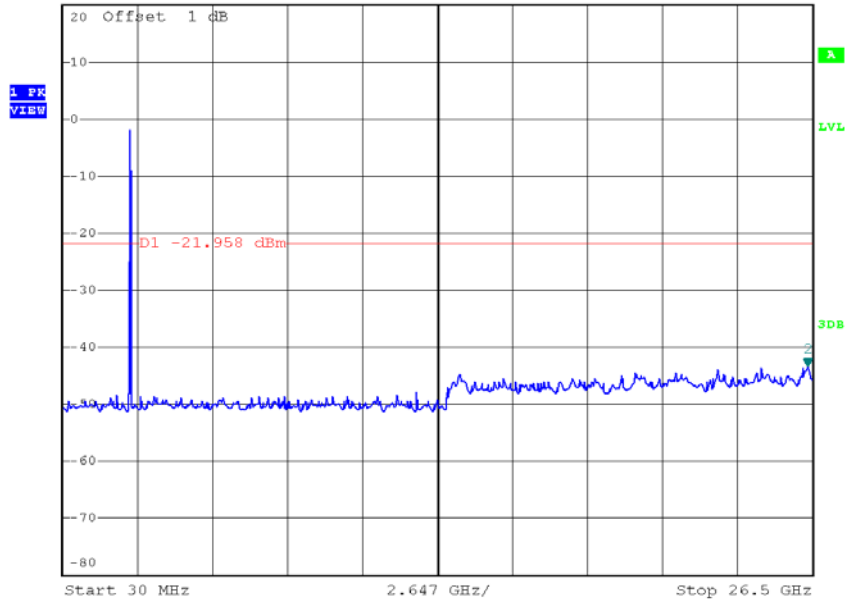


Date: 14.SEP.2015 11:40:46

TX HT40 mode CH09 (10 Harmonic of the frequency)



*REW 100 kHz Marker 2 [T1]
 *VBW 300 kHz -43.26 dBm
 Ref 20 dBm *Att 30 dB SWT 2.7 s 26.341180000 GHz

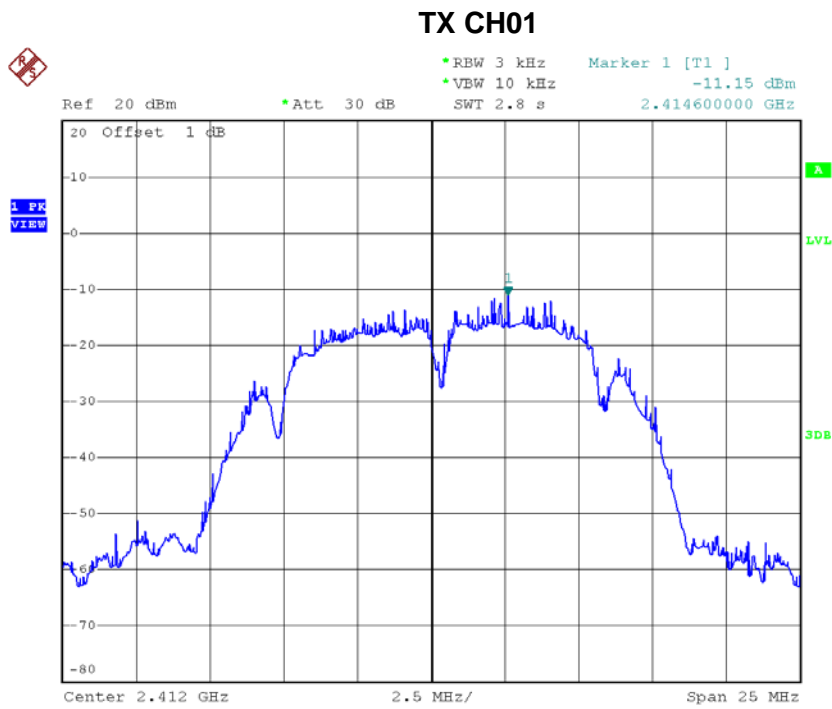


Date: 14.SEP.2015 11:40:39

ATTACHMENT H - POWER SPECTRAL DENSITY

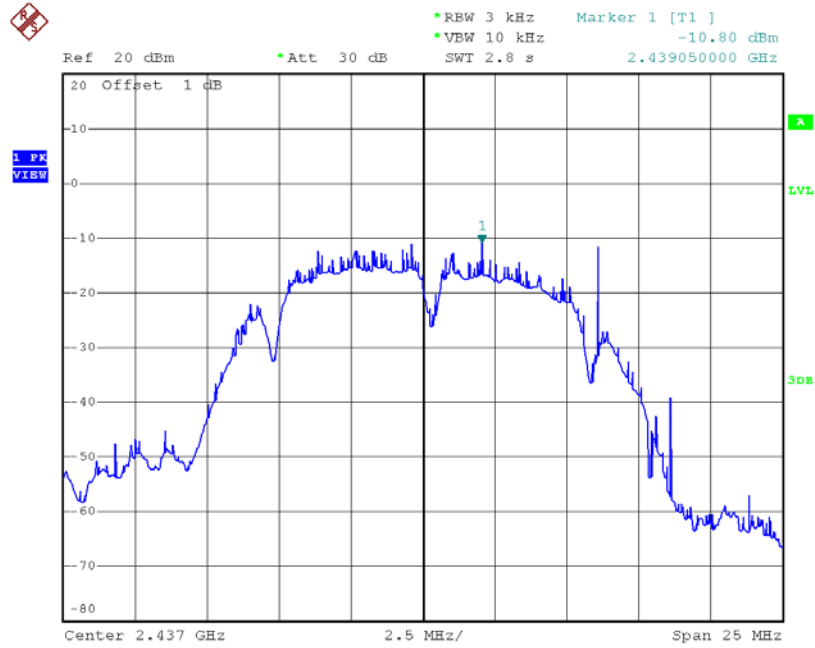
Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-11.15	0.08	8.00	Complies
2437	-10.80	0.08	8.00	Complies
2462	-9.78	0.11	8.00	Complies



Date: 14.SEP.2015 10:07:48

TX CH06



Date: 14.SEP.2015 10:10:46

TX CH11

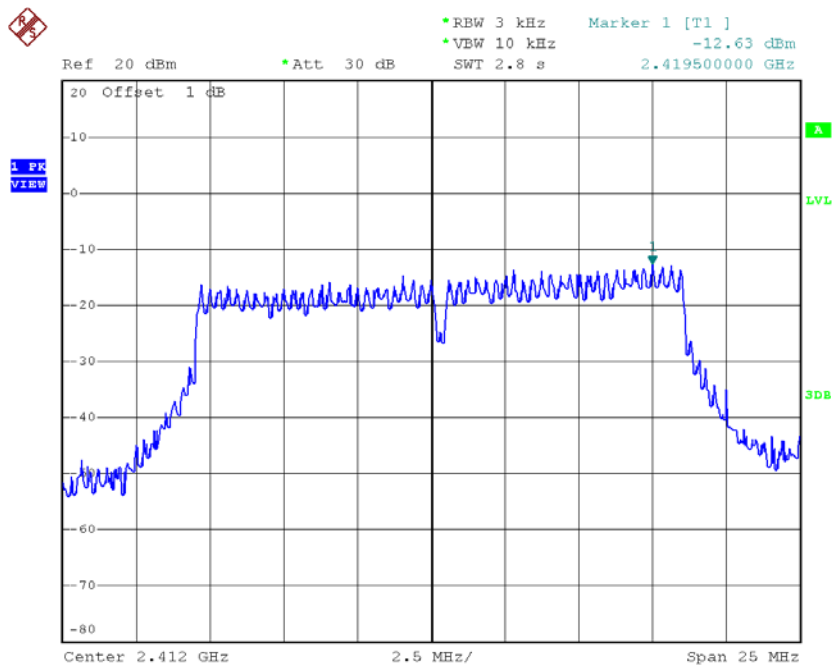


Date: 14.SEP.2015 10:39:50

Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.63	0.05	8.00	Complies
2437	-12.55	0.06	8.00	Complies
2462	-13.08	0.05	8.00	Complies

TX CH01

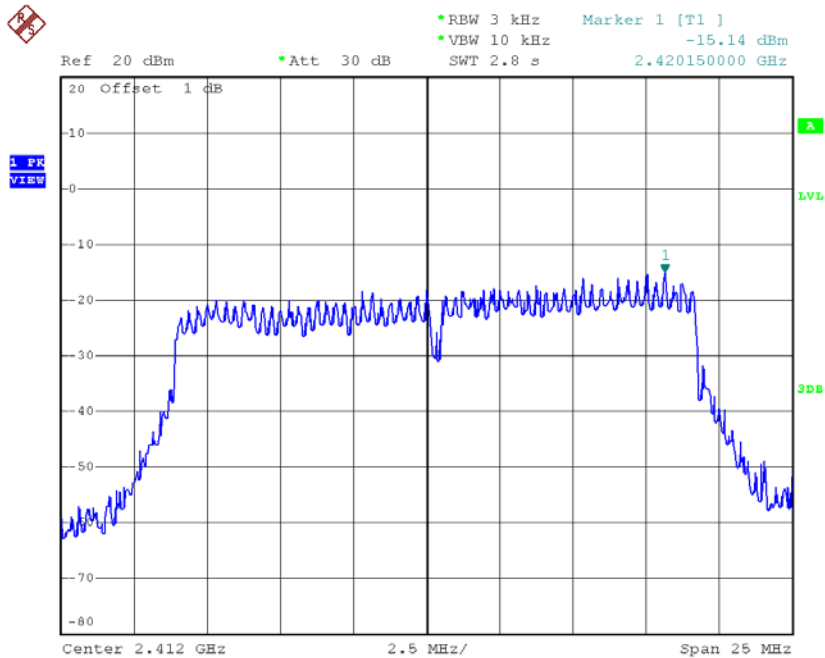


Date: 14.SEP.2015 10:41:23

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-15.14	0.03	8.00	Complies
2437	-15.16	0.03	8.00	Complies
2462	-17.32	0.02	8.00	Complies

TX CH01

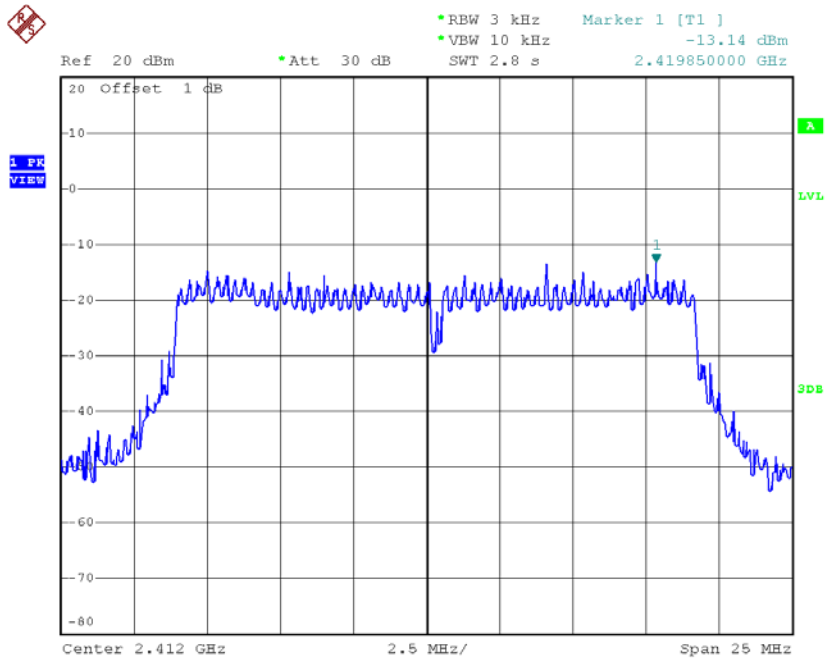


Date: 14.SEP.2015 10:52:49

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	-13.14	0.05	8.00	Complies
2437	-16.71	0.02	8.00	Complies
2462	-18.26	0.01	8.00	Complies

TX CH01



Date: 14.SEP.2015 11:33:00

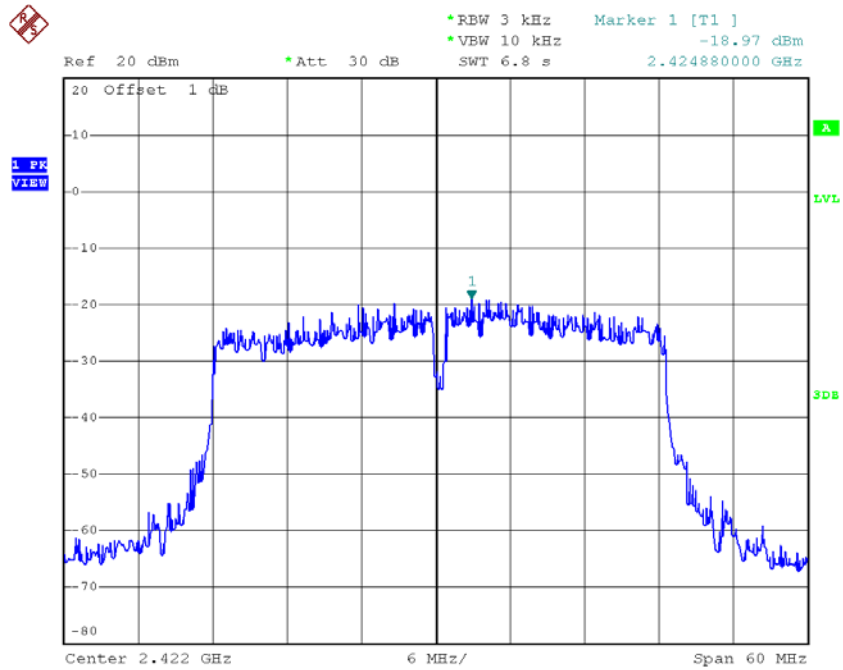
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.97	0.08	8.00	Complies
2437	-13.01	0.05	8.00	Complies
2462	-15.23	0.03	8.00	Complies

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

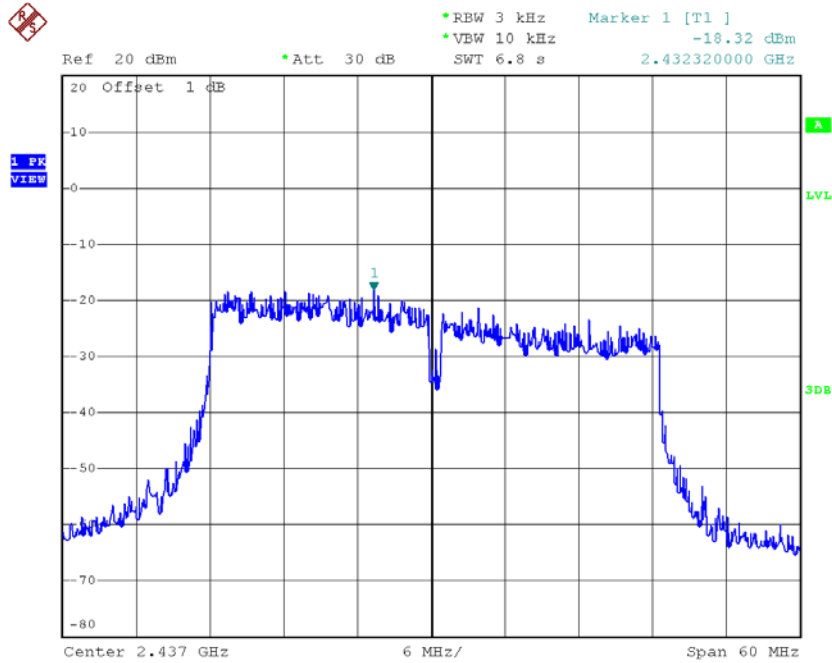
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-18.97	0.01	8.00	Complies
2437	-18.32	0.01	8.00	Complies
2452	-17.48	0.02	8.00	Complies

TX CH03



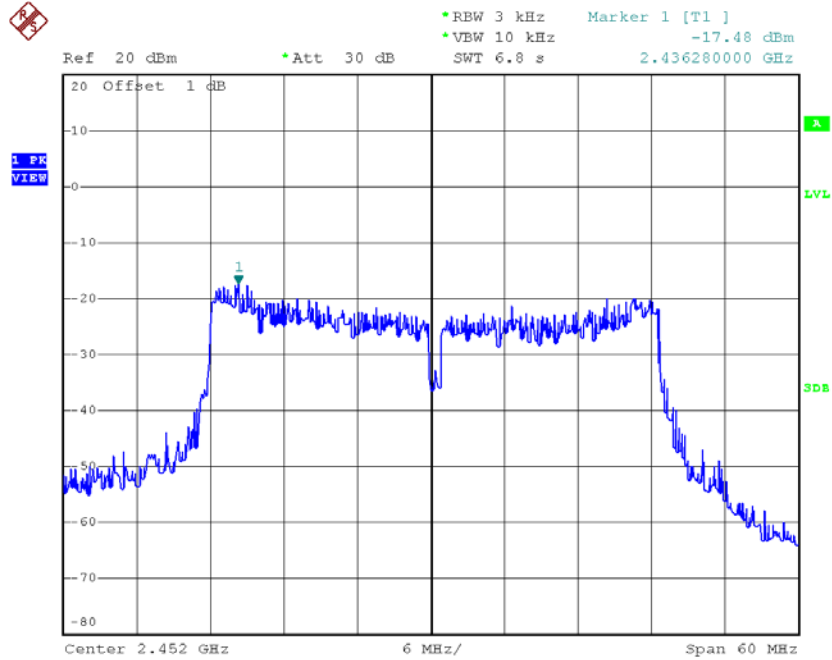
Date: 14.SEP.2015 11:25:57

TX CH06



Date: 14.SEP.2015 11:28:10

TX CH09

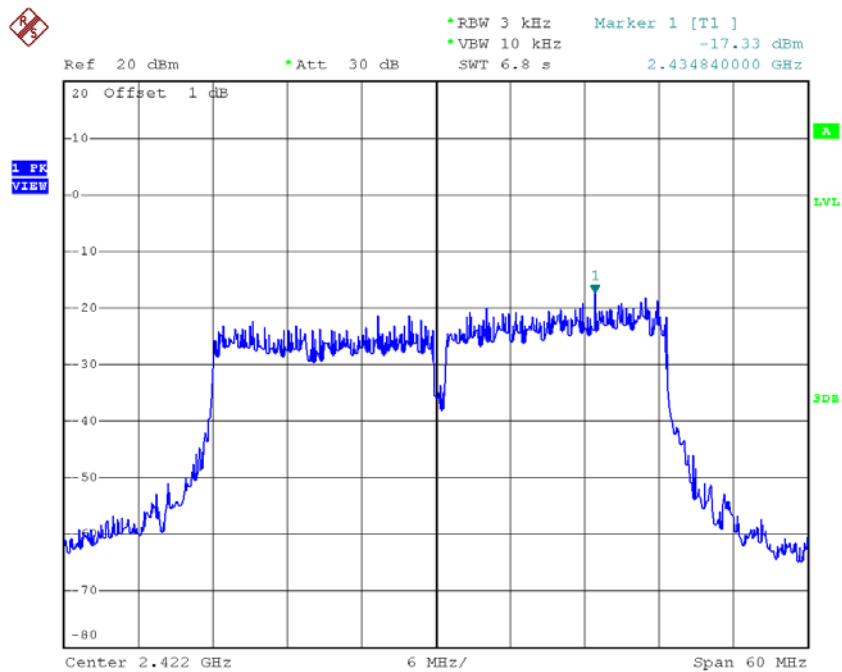


Date: 14.SEP.2015 11:30:41

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

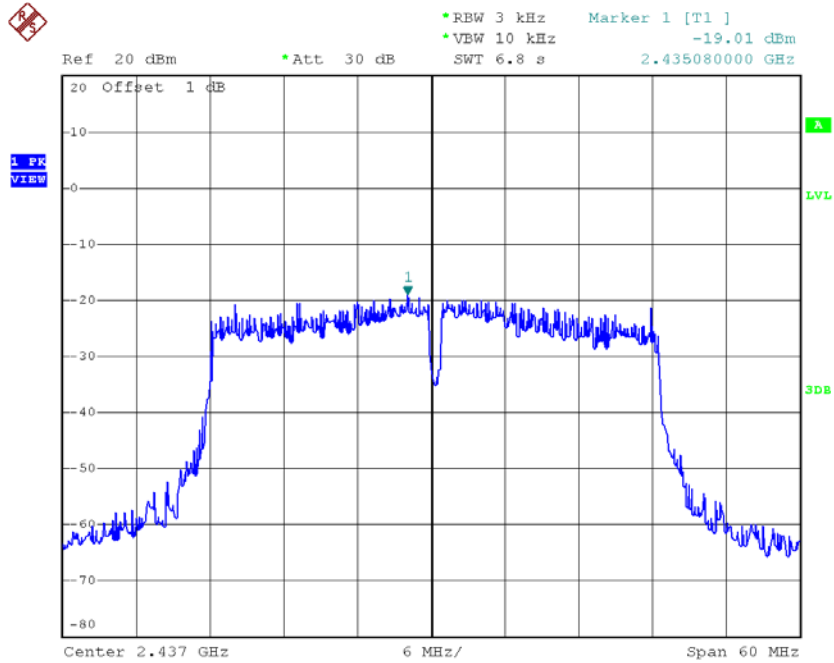
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-17.33	0.02	8.00	Complies
2437	-19.01	0.01	8.00	Complies
2452	-15.43	0.03	8.00	Complies

TX CH03



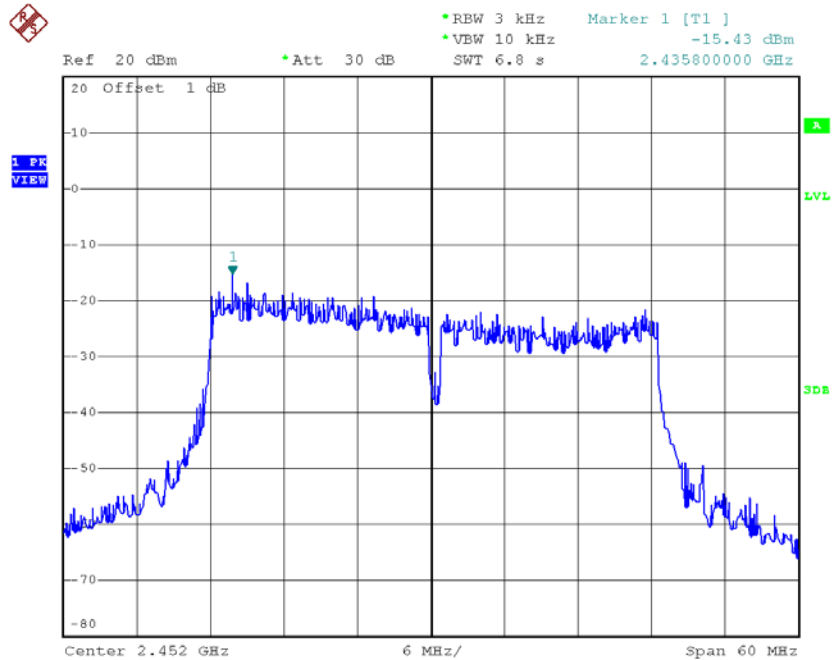
Date: 14.SEP.2015 11:37:50

TX CH06



Date: 14.SEP.2015 11:39:26

TX CH09



Date: 14.SEP.2015 11:40:59

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

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.23	0.03	8.00	Complies
2437	-16.99	0.02	8.00	Complies
2452	-13.01	0.05	8.00	Complies