

FCC Radio Test Report

FCC ID: V7TI12

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

Project No. : 1406C040C
Equipment : Wireless Access Point
Model Name : i12
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
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Road, Nanshan District, Shenzhen, China. 518052

Date of Receipt : Oct. 22, 2015
Date of Test : Oct. 22, 2015 ~ Nov. 02, 2015
Issued Date : Nov. 05, 2015
Tested by : BTL Inc.

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Declaration

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1406C040C	Original Issue.	Nov. 05, 2015

1. CERTIFICATION

Equipment : Wireless Access Point
Brand Name : Tenda
Model Name : i12
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Manufacturer : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,
Shenzhen, China. 518052
Date of Test : Oct. 22, 2015 ~ Nov. 02, 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-1-1406C040C) 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 (3m)	CISPR	9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03 (3m)	CISPR	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	Wireless Access Point	
Brand Name	Tenda	
Model Name	i12	
Model Difference	NA	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 300 Mbps
	Output Power (Max.)	802.11b: 24.18 dBm 802.11g: 29.95 dBm 802.11n(20MHz): 29.52 dBm 802.11n(40MHz): 28.50 dBm
Power Source	DC voltage supplied from AC/DC adapter. Model: BN036-A12012U	
Power Rating	I/P: 100-240V~50/60Hz 0.4A O/P: DC 12V 1.0A	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	2
2	N/A	N/A	Printed	N/A	2

Note:

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

(2) ANT 1 was the worst 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 generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

Note:

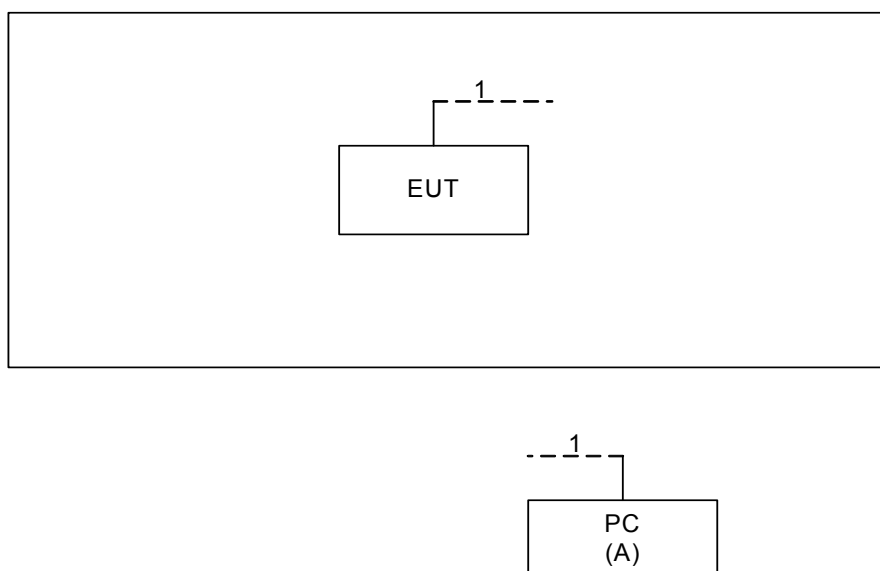
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For radiated below 1G test, the 802.11b is found to be the worst case and recorded.
- (4) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.
- (5) This device can be configured by a ceiling mount and used as a table-top. All installation configurations are tested and table-top is the worst case and recorded only.
- (6) The EUT was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

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.

Test software version	MTOOL		
Frequency (MHz)	2412	2437	2462
802.11b	81	82	82
802.11g	60	89	75
802.11n (20MHz)	58	76	63
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	45	67	59

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.
A	PC	Lenovo	H2510	DOC	SS07999198

Item	Shielded Type	Ferrite Core	Length	Note
1	NA	NA	10M	C-1

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

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

The following table is the setting of the receiver

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

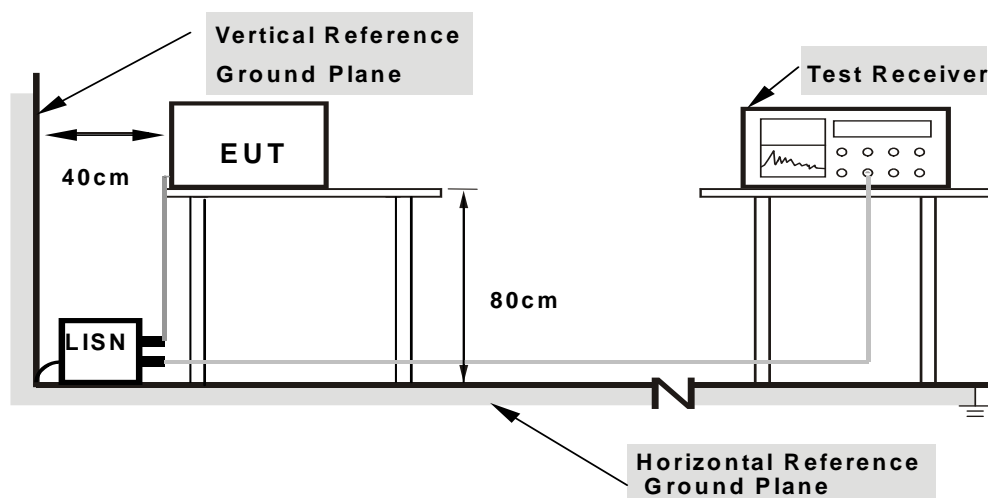
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

Notes:

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW (Emission in restricted band)	RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value

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

4.2.2 TEST PROCEDURE

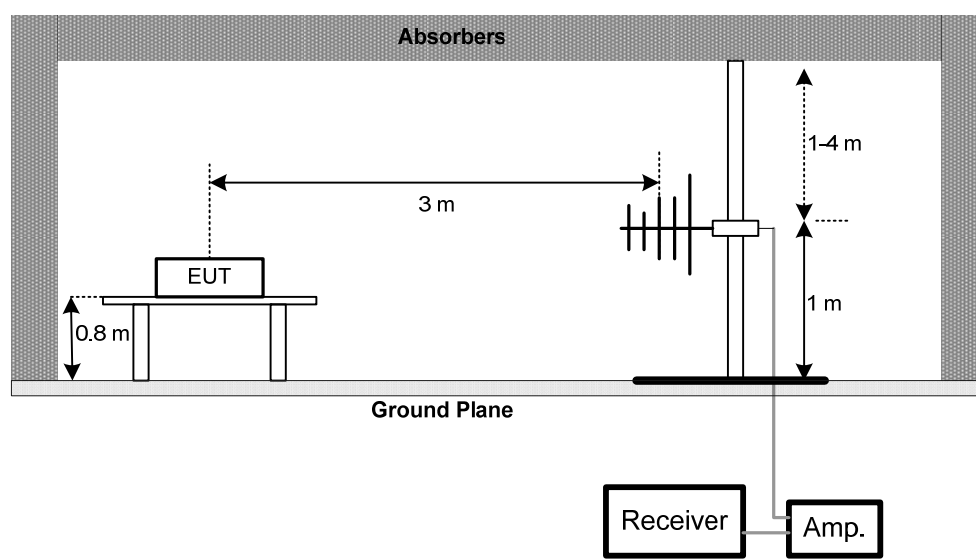
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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)
- 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 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.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

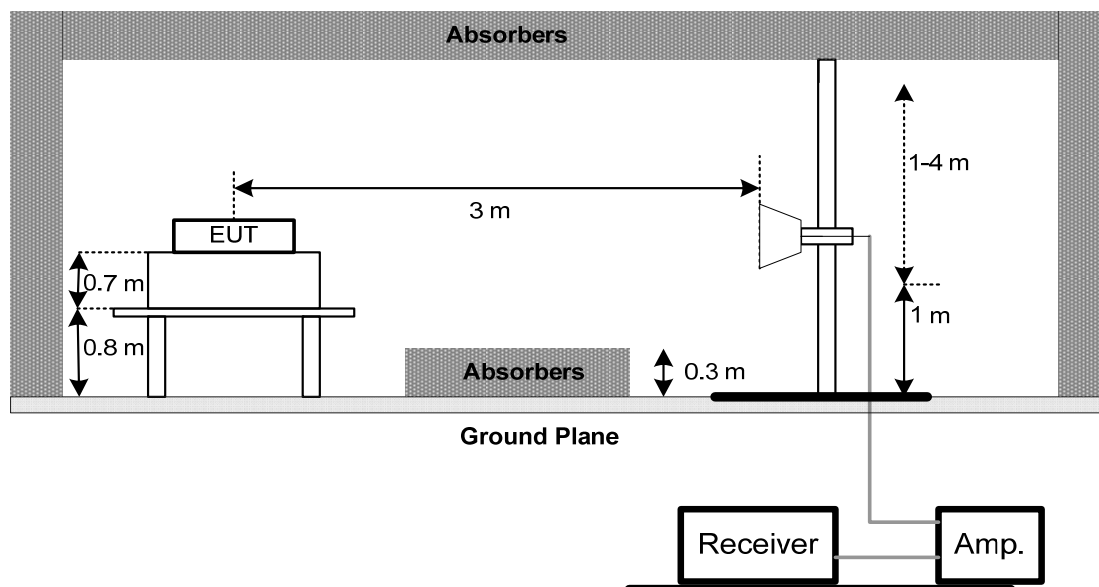
No deviation

4.2.4 TEST SETUP

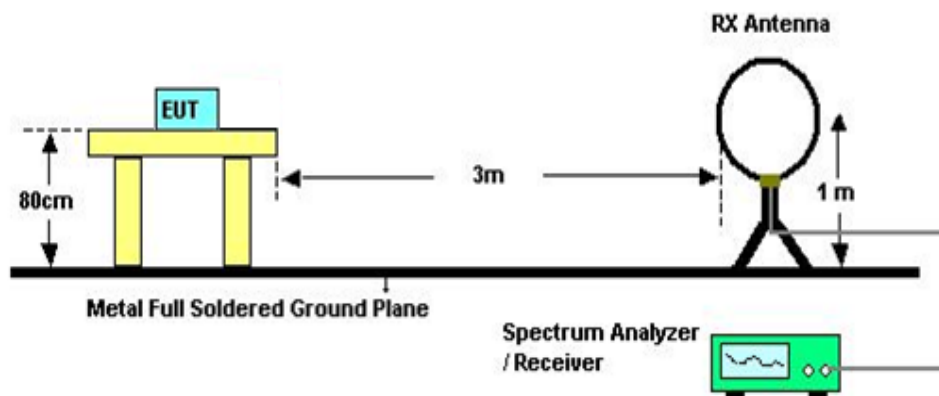
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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

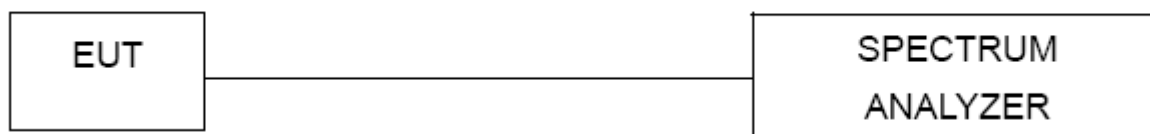
5.1.1 TEST PROCEDURE

- 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.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

8.1.1 TEST PROCEDURE

- 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	699837	0052765	Mar. 28, 2016
2	LISN	R&S	ENV216	101447	Mar. 28, 2016
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 13, 2016
4	EMI Test Receiver	R&S	ESCS30	826547/022	Mar. 28, 2016
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 28, 2016
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Antenna	ETS	3115	00075789	Mar. 28, 2016
6	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
7	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
8	Test Cable	emci	EMC104-SM-SM-10000(1GHz — 26.5GHz)	C-68	Jun. 28, 2016
9	Controller	CT	SC100	N/A	N/A
10	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
11	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
12	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	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



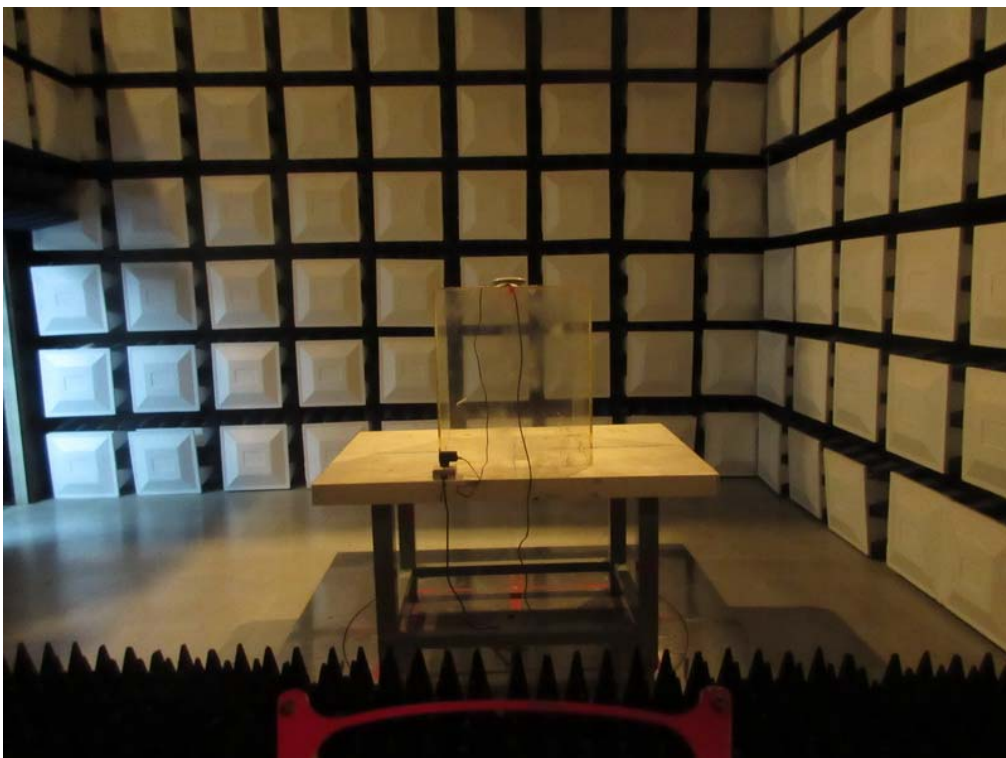
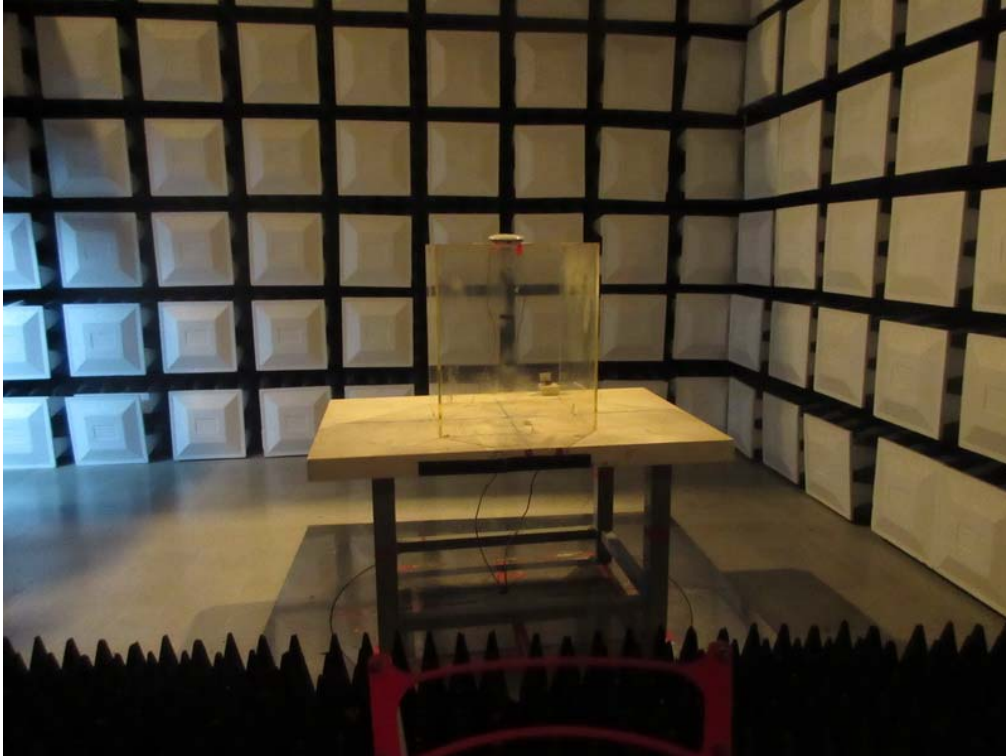
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

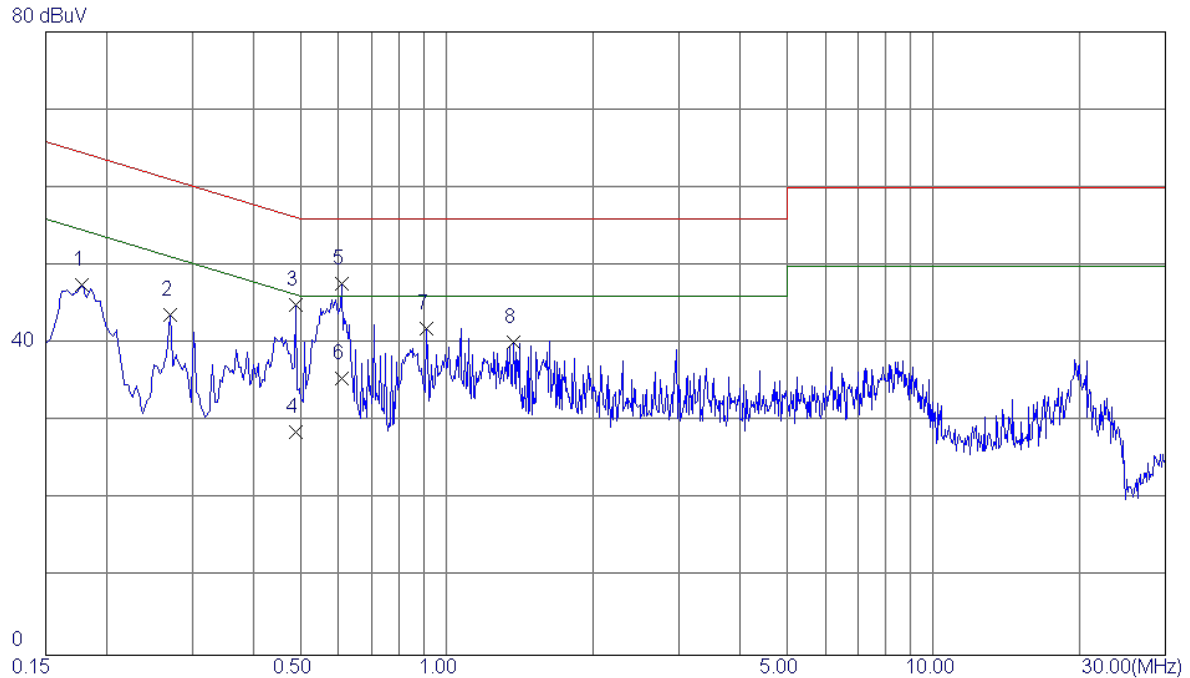
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode : Normal Link

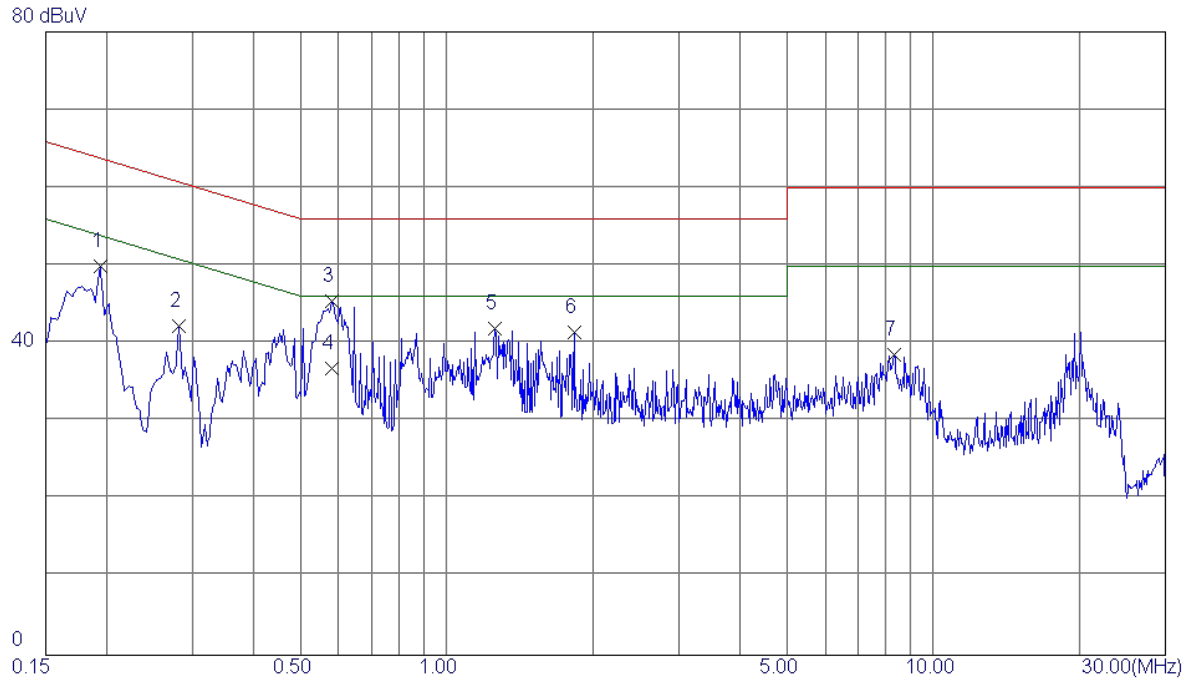
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1780	38.02	9.56	47.58	64.58	-17.00	Peak	
2	0.2700	34.01	9.62	43.63	61.12	-17.49	Peak	
3	0.4900	35.32	9.68	45.00	56.17	-11.17	Peak	
4	0.4900	19.00	9.68	28.68	46.17	-17.49	AVG	
5	0.6100	37.93	9.72	47.65	56.00	-8.35	Peak	
6	0.6100	25.80	9.72	35.52	46.00	-10.48	AVG	
7	0.9100	32.07	9.78	41.85	56.00	-14.15	Peak	
8	1.3700	30.32	9.83	40.15	56.00	-15.85	Peak	

Test Mode : Normal Link

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1940	40.47	9.50	49.97	63.86	-13.89	Peak	
2	0.2819	32.78	9.52	42.30	60.76	-18.46	Peak	
3	0.5820	35.94	9.56	45.50	56.00	-10.50	Peak	
4	0.5820	27.30	9.56	36.86	46.00	-9.14	AVG	
5	1.2579	32.34	9.63	41.97	56.00	-14.03	Peak	
6	1.8260	31.79	9.70	41.49	56.00	-14.51	Peak	
7	8.3139	28.71	9.85	38.56	60.00	-21.44	Peak	

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

Test Mode:	TX B MODE CHANNEL 01
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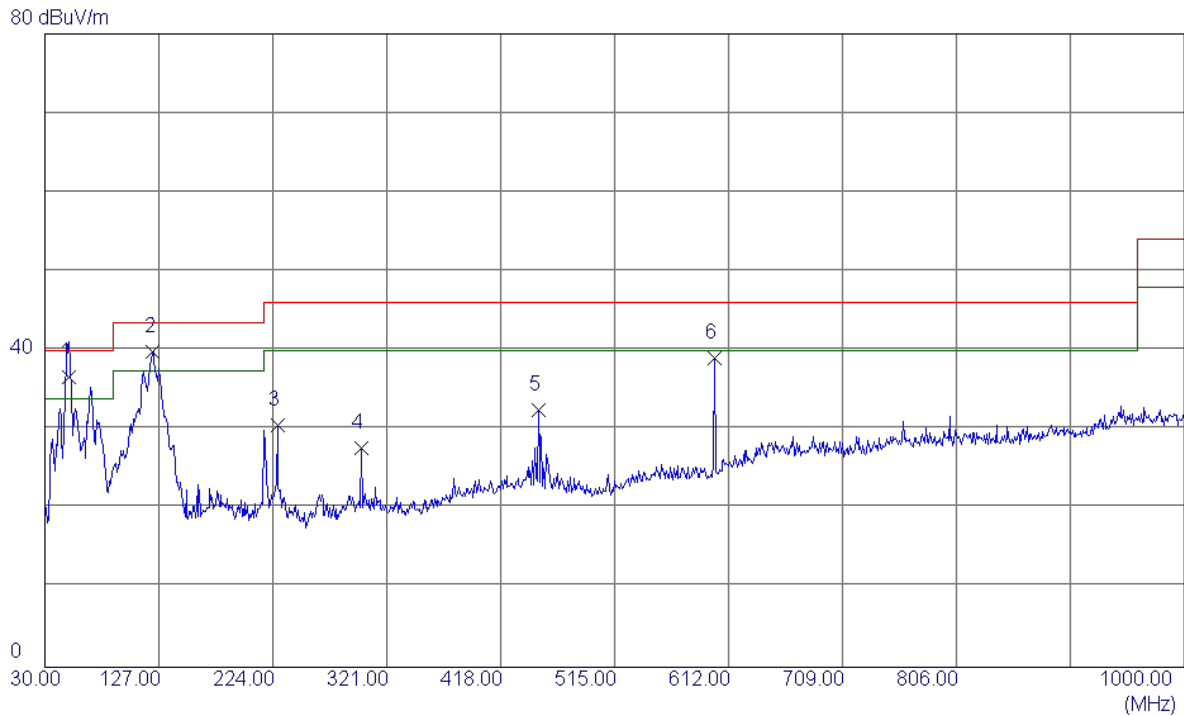
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0122	0°	13.89	24.7940	38.6840	125.8770	-87.1930	AVG
0.0122	0°	14.62	24.7940	39.4140	145.8770	-106.4630	PEAK
0.0293	0°	6.91	23.7110	30.6210	118.2669	-87.6459	AVG
0.0293	0°	8.44	23.7110	32.1510	138.2669	-106.1159	PEAK
0.0382	0°	3.52	23.1473	26.6673	115.9630	-89.2956	AVG
0.0382	0°	5.73	23.1473	28.8773	135.9630	-107.0856	PEAK
0.0596	0°	1.51	22.2080	23.7180	112.0993	-88.3813	AVG
0.0596	0°	2.95	22.2080	25.1580	132.0993	-106.9413	PEAK
0.5227	0°	19.85	19.8726	39.7226	73.2392	-33.5165	QP
1.9745	0°	24.07	19.5026	43.5726	69.5400	-25.9674	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0168	90°	13.59	24.3000	37.8900	123.0980	-85.2080	AVG
0.0168	90°	15.21	24.3000	39.5100	143.0980	-103.5880	PEAK
0.0295	90°	7.63	23.6983	31.3283	118.2078	-86.8795	AVG
0.0295	90°	9.12	23.6983	32.8183	138.2078	-105.3895	PEAK
0.0477	90°	5.57	22.5457	28.1157	114.0339	-85.9182	AVG
0.0477	90°	6.46	22.5457	29.0057	134.0339	-105.0282	PEAK
0.0627	90°	1.87	22.1460	24.0160	111.6589	-87.6429	AVG
0.0627	90°	3.02	22.1460	25.1660	131.6589	-106.4929	PEAK
0.6459	90°	22.55	20.2669	42.8169	71.4009	-28.5840	QP
2.1473	90°	24.83	19.4116	44.2416	69.5400	-25.2984	QP

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

Test Mode: TX B MODE CHANNEL 01

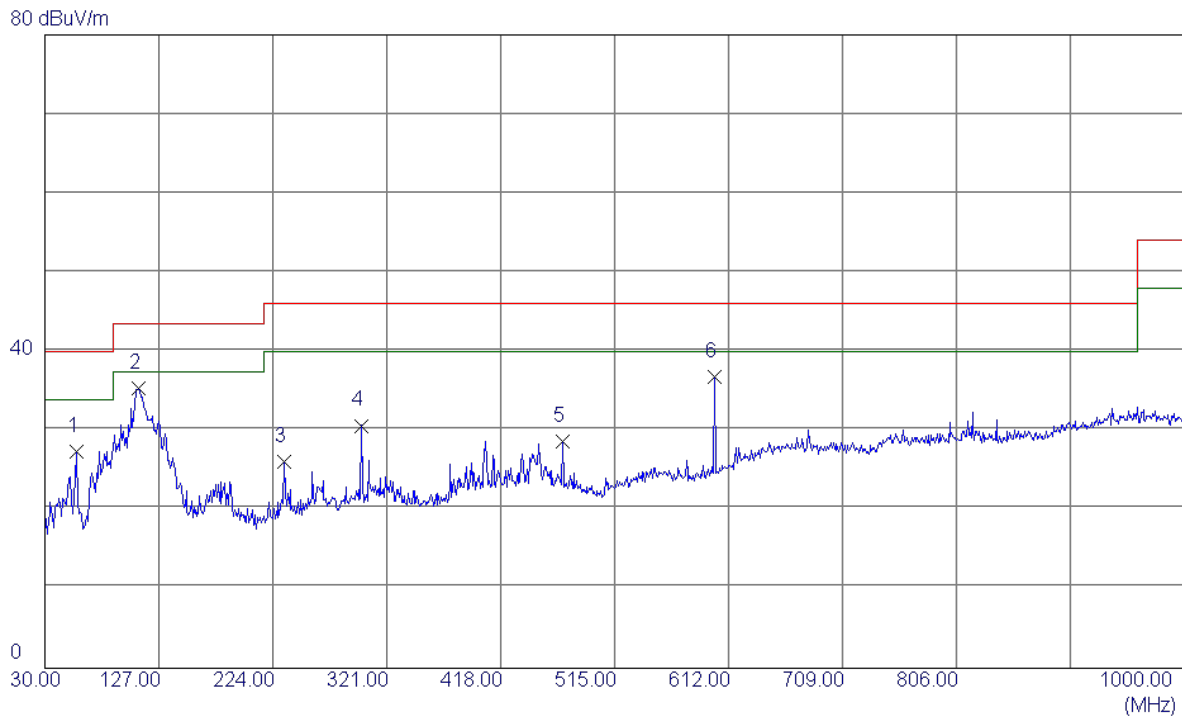
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	50.3700	49.15	-12.48	36.67	40.00	-3.33	QP	
2	122.1500	52.17	-12.33	39.84	43.50	-3.66	Peak	
3	227.8800	43.40	-12.89	30.51	46.00	-15.49	Peak	
4	299.6600	37.26	-9.59	27.67	46.00	-18.33	Peak	
5	450.0100	38.33	-5.90	32.43	46.00	-13.57	Peak	
6	600.3600	43.68	-4.62	39.06	46.00	-6.94	Peak	

Test Mode: TX B MODE CHANNEL 01

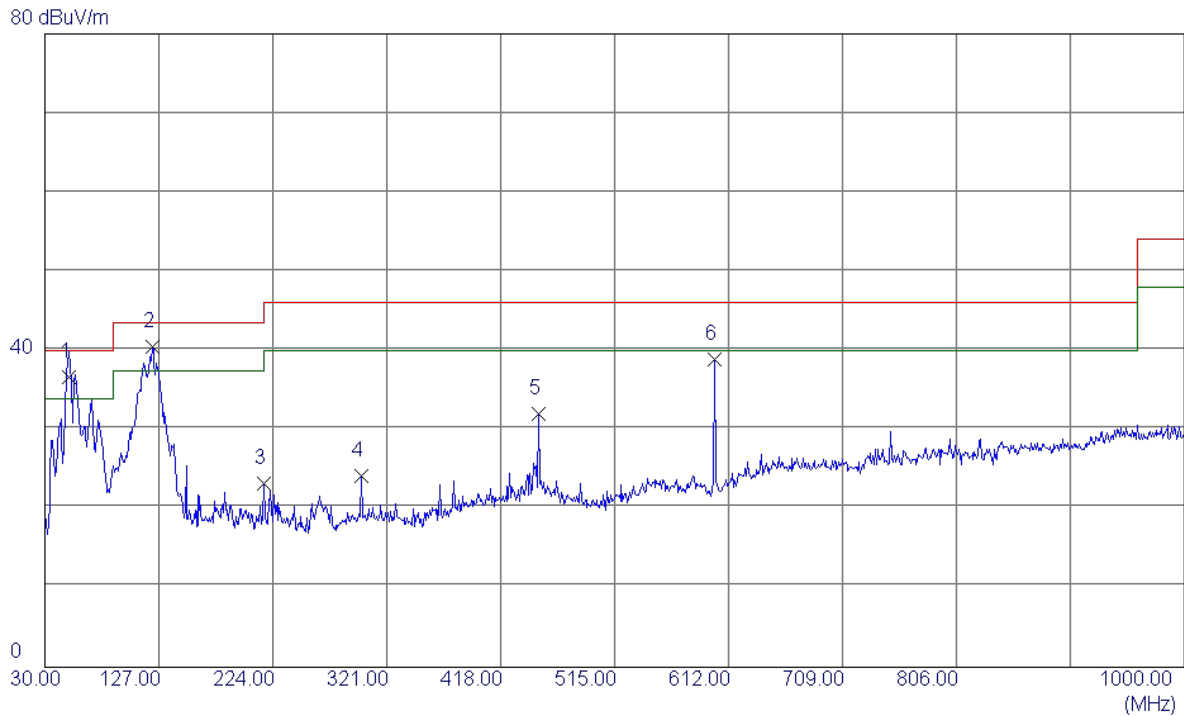
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	57.1600	40.32	-13.02	27.30	40.00	-12.70	Peak	
2	109.5400	49.21	-13.84	35.37	43.50	-8.13	Peak	
3	233.7000	38.78	-12.63	26.15	46.00	-19.85	Peak	
4	299.6600	40.23	-9.59	30.64	46.00	-15.36	Peak	
5	470.3800	35.20	-6.50	28.70	46.00	-17.30	Peak	
6	600.3600	41.46	-4.62	36.84	46.00	-9.16	Peak	

Test Mode: TX B MODE CHANNEL 06

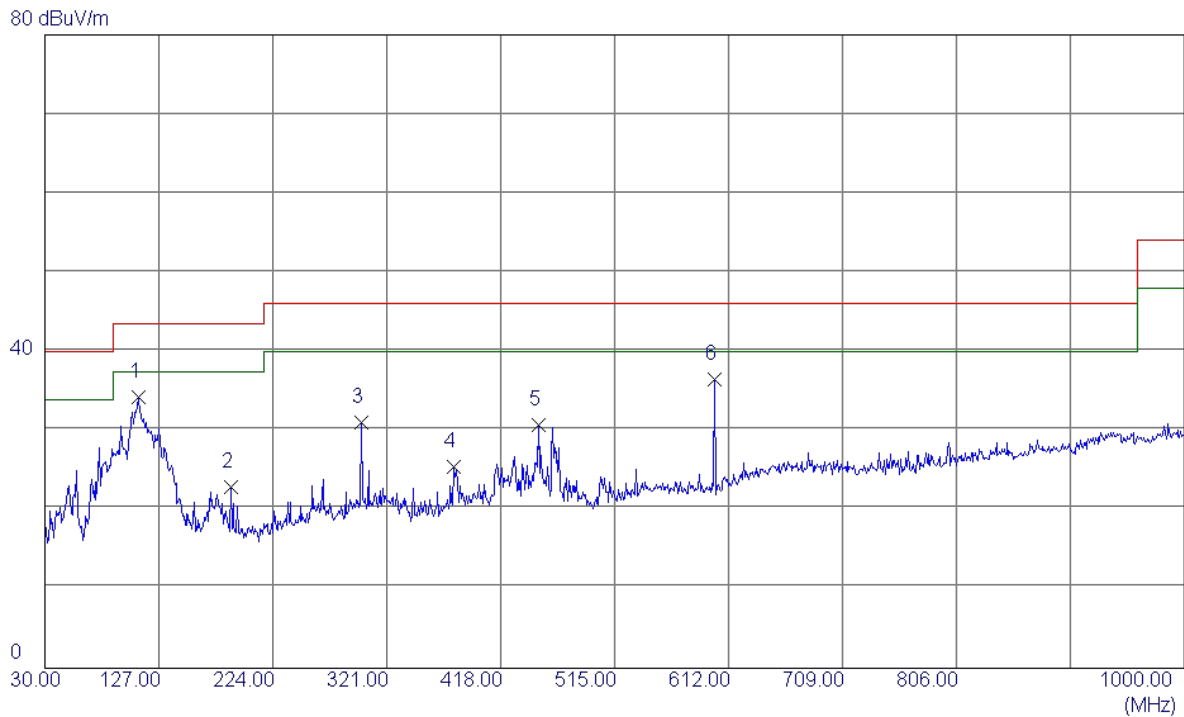
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	50.3700	49.18	-12.48	36.70	40.00	-3.30	QP	
2	121.1800	52.91	-12.44	40.47	43.50	-3.03	Peak	
3	216.2400	36.78	-13.52	23.26	46.00	-22.74	Peak	
4	299.6600	33.74	-9.59	24.15	46.00	-21.85	Peak	
5	450.0100	37.90	-5.90	32.00	46.00	-14.00	Peak	
6	600.3600	43.50	-4.62	38.88	46.00	-7.12	Peak	

Test Mode: TX B MODE CHANNEL 06

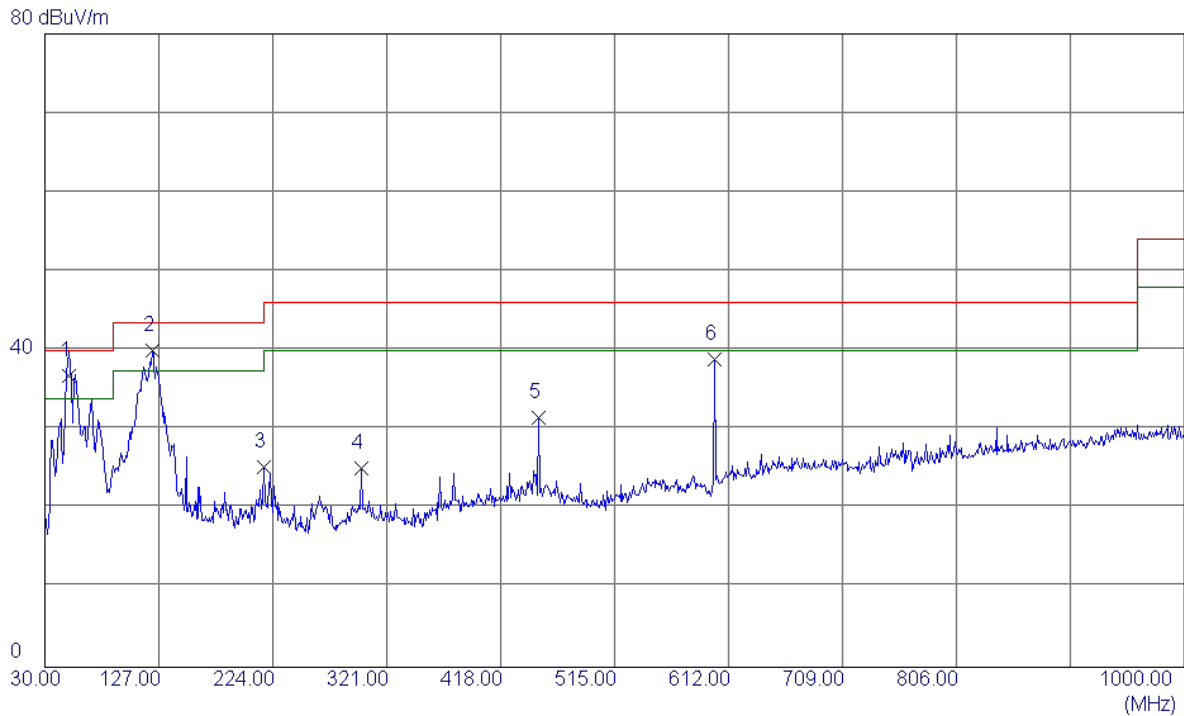
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	109.5400	48.08	-13.84	34.24	43.50	-9.26	Peak	
2	188.1100	35.64	-12.70	22.94	43.50	-20.56	Peak	
3	299.6600	40.57	-9.59	30.98	46.00	-15.02	Peak	
4	378.2300	33.85	-8.42	25.43	46.00	-20.57	Peak	
5	450.0100	36.68	-5.90	30.78	46.00	-15.22	Peak	
6	600.3600	41.07	-4.62	36.45	46.00	-9.55	Peak	

Test Mode: TX B MODE CHANNEL 11

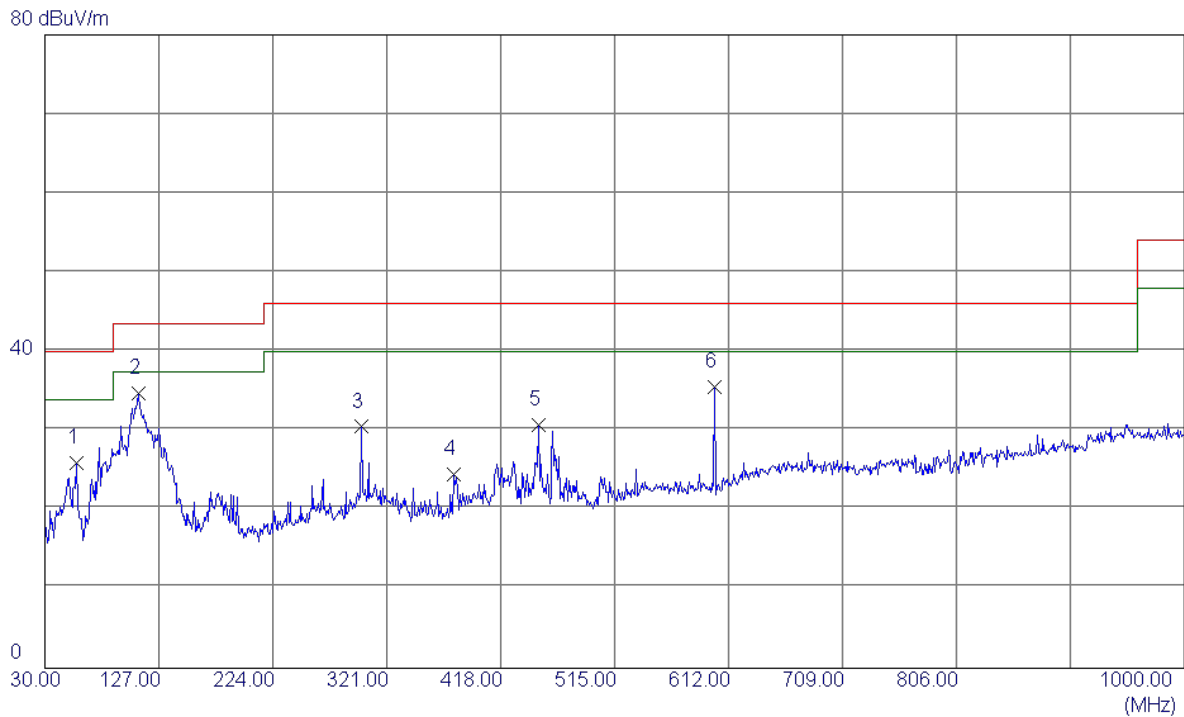
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	50.3700	49.21	-12.48	36.73	40.00	-3.27	QP	
2	121.1800	52.41	-12.44	39.97	43.50	-3.53	Peak	
3	216.2400	38.78	-13.52	25.26	46.00	-20.74	Peak	
4	299.6600	34.74	-9.59	25.15	46.00	-20.85	Peak	
5	450.0100	37.40	-5.90	31.50	46.00	-14.50	Peak	
6	600.3600	43.50	-4.62	38.88	46.00	-7.12	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

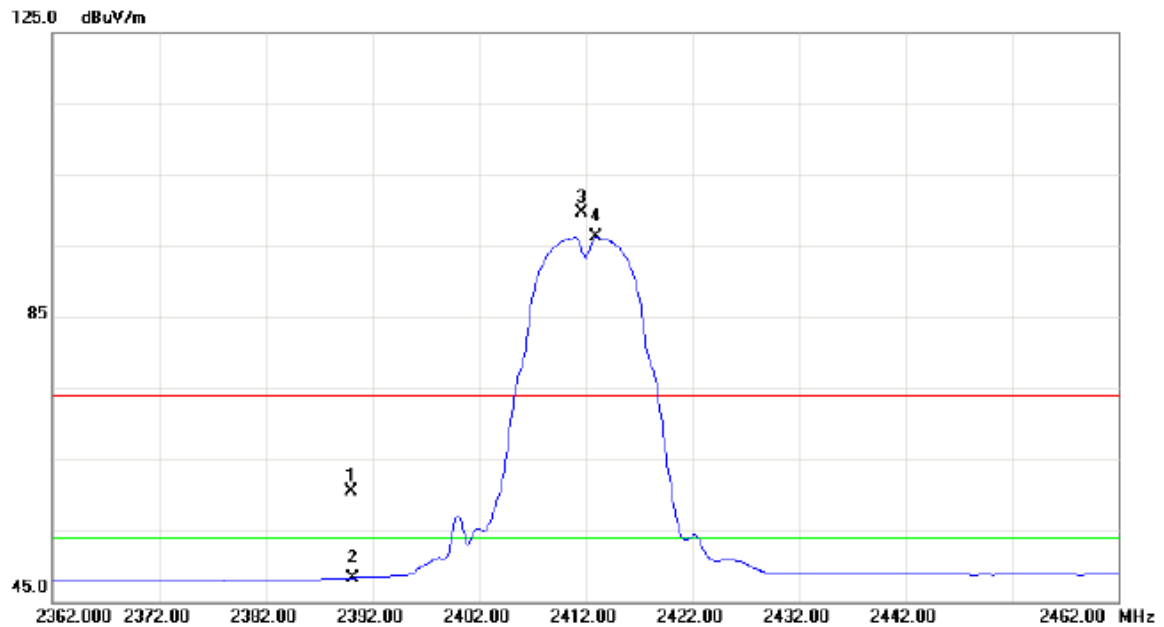


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	57.1600	38.95	-13.02	25.93	40.00	-14.07	Peak	
2	109.5400	48.58	-13.84	34.74	43.50	-8.76	Peak	
3	299.6600	40.07	-9.59	30.48	46.00	-15.52	Peak	
4	378.2300	32.85	-8.42	24.43	46.00	-21.57	Peak	
5	450.0100	36.68	-5.90	30.78	46.00	-15.22	Peak	
6	600.3600	40.07	-4.62	35.45	46.00	-10.55	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

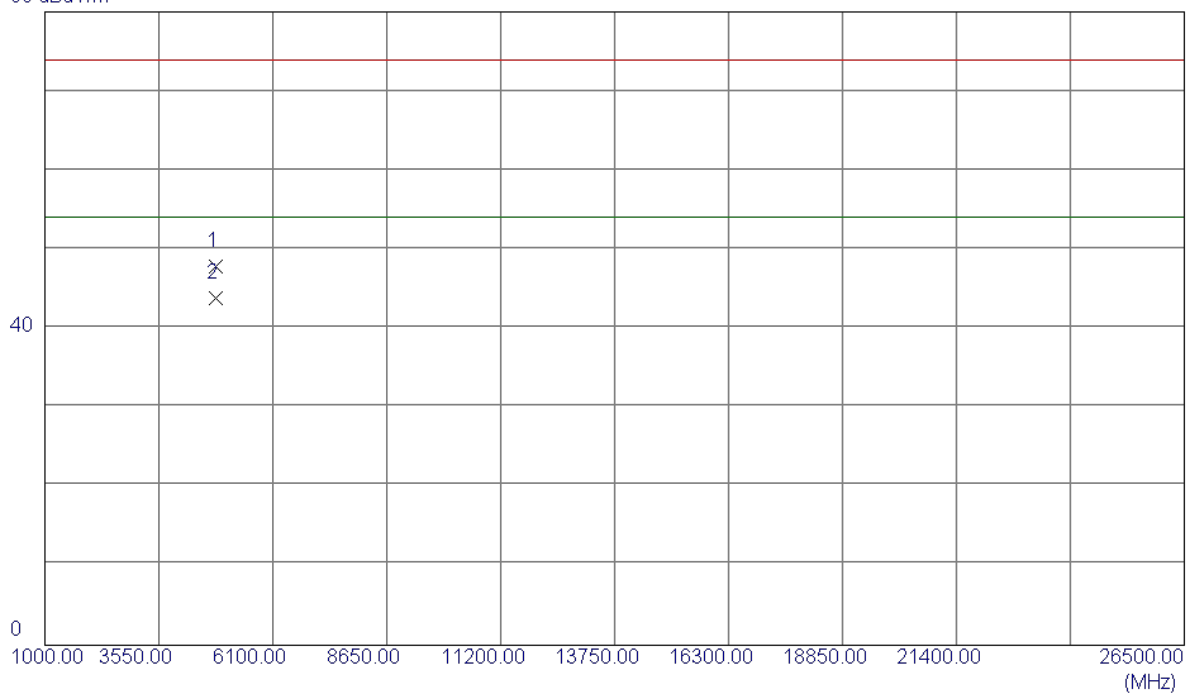


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	26.29	34.23	60.52	74.00	-13.48	peak	
2		2390.000	14.15	34.23	48.38	54.00	-5.62	AVG	
3	X	2411.700	65.30	34.36	99.66	74.00	25.66	peak	No Limit
4	*	2413.000	61.89	34.37	96.26	54.00	42.26	AVG	No Limit

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

Vertical

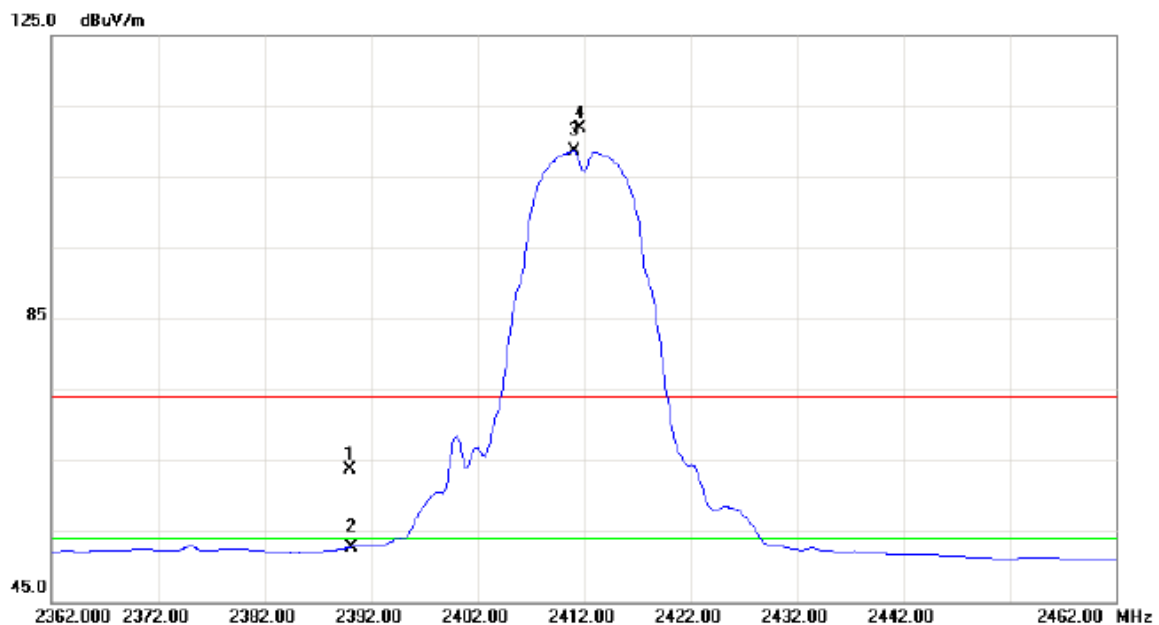
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.9600	44.80	3.00	47.80	74.00	-26.20	Peak	
2	4824.0000	40.87	3.00	43.87	54.00	-10.13	AVG	

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

Horizontal

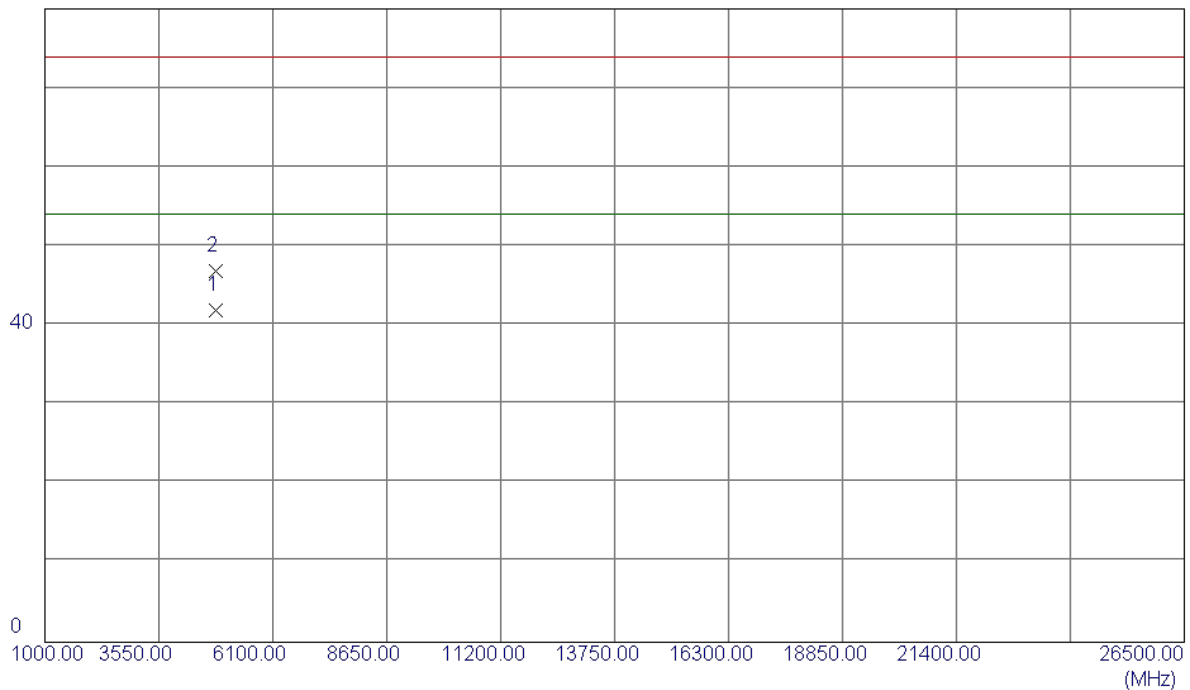


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	29.47	34.23	63.70	74.00	-10.30	peak	
2		2390.000	18.49	34.23	52.72	54.00	-1.28	AVG	
3	*	2411.100	74.26	34.36	108.62	54.00	54.62	AVG	No Limit
4	X	2411.600	77.59	34.36	111.95	74.00	37.95	peak	No Limit

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

Horizontal

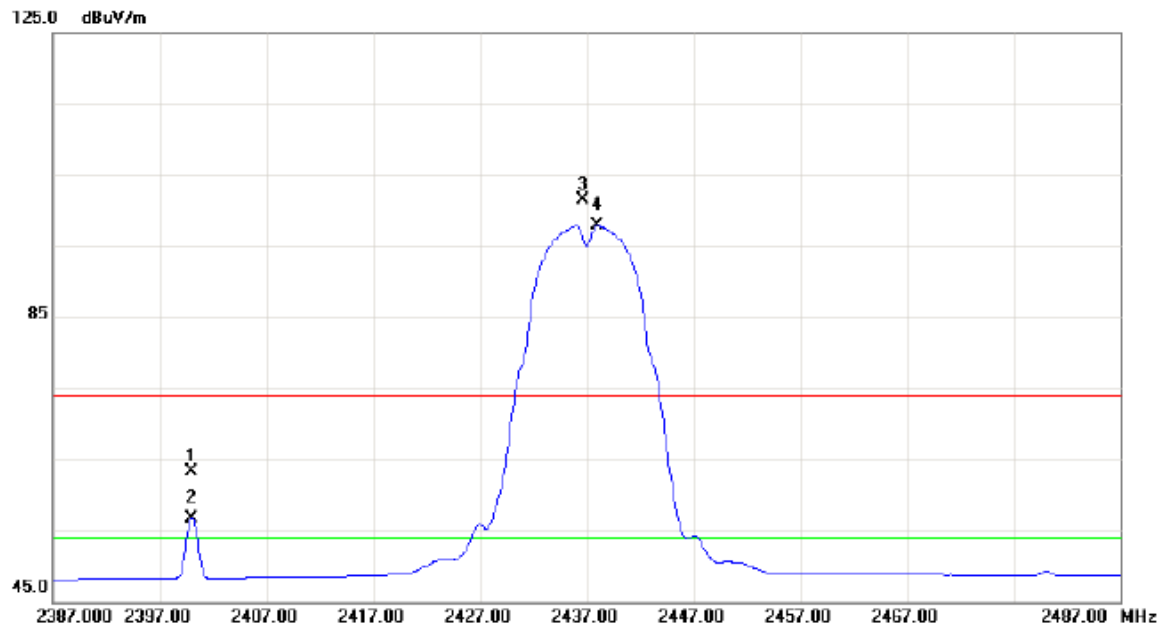
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0200	38.86	3.00	41.86	54.00	-12.14	AVG	
2	4823.9200	43.84	3.00	46.84	74.00	-27.16	Peak	

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

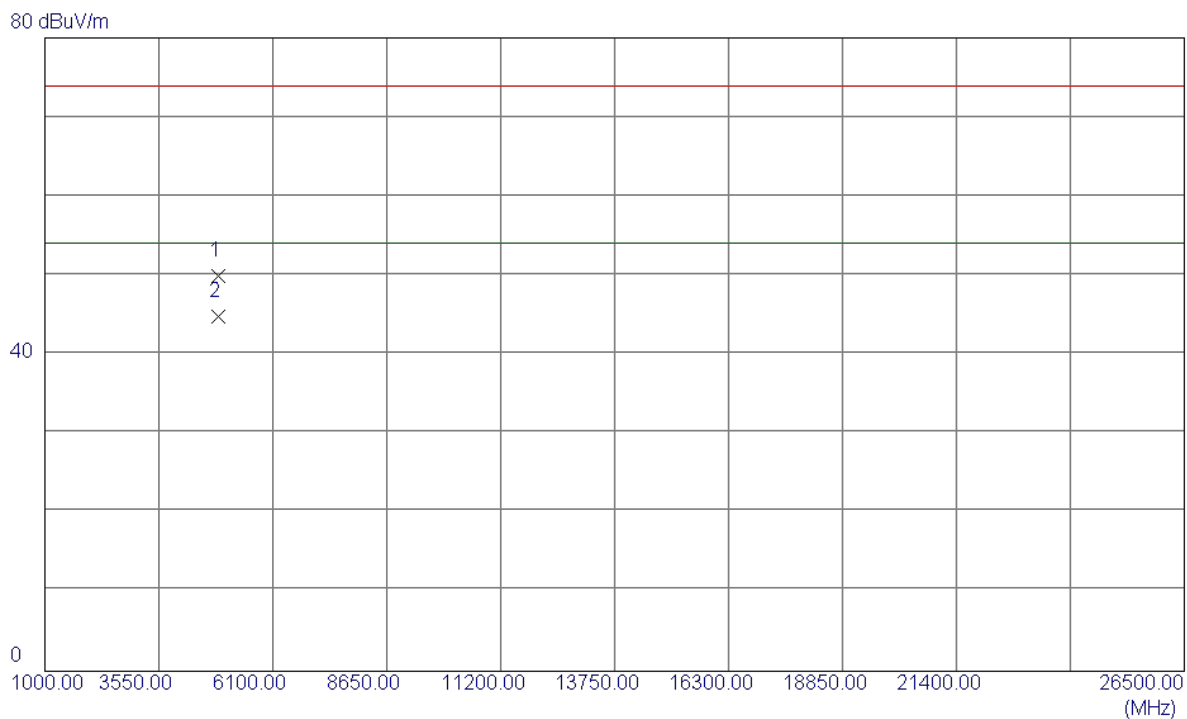
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2400.000	29.03	34.29	63.32	74.00	-10.68	peak	No Limit
2	X	2400.000	22.33	34.29	56.62	54.00	2.62	AVG	No Limit
3	X	2436.600	67.08	34.50	101.58	74.00	27.58	peak	No Limit
4	*	2438.000	63.37	34.51	97.88	54.00	43.88	AVG	No Limit

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

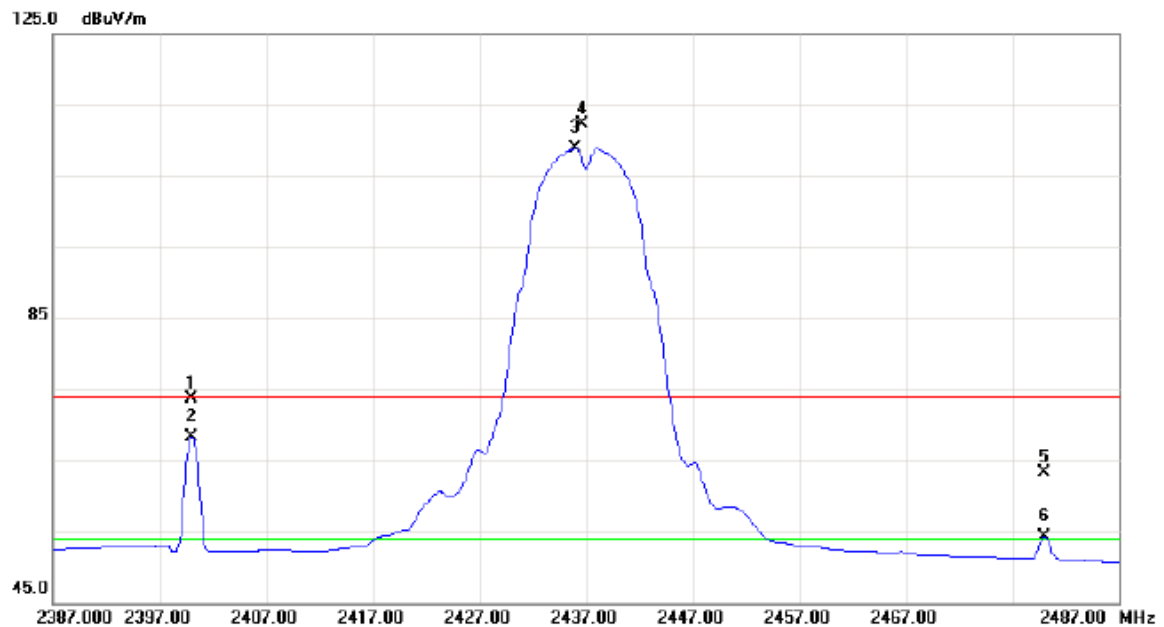
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9600	46.95	3.03	49.98	74.00	-24.02	Peak	
2	4874.0200	41.82	3.03	44.85	54.00	-9.15	AVG	

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

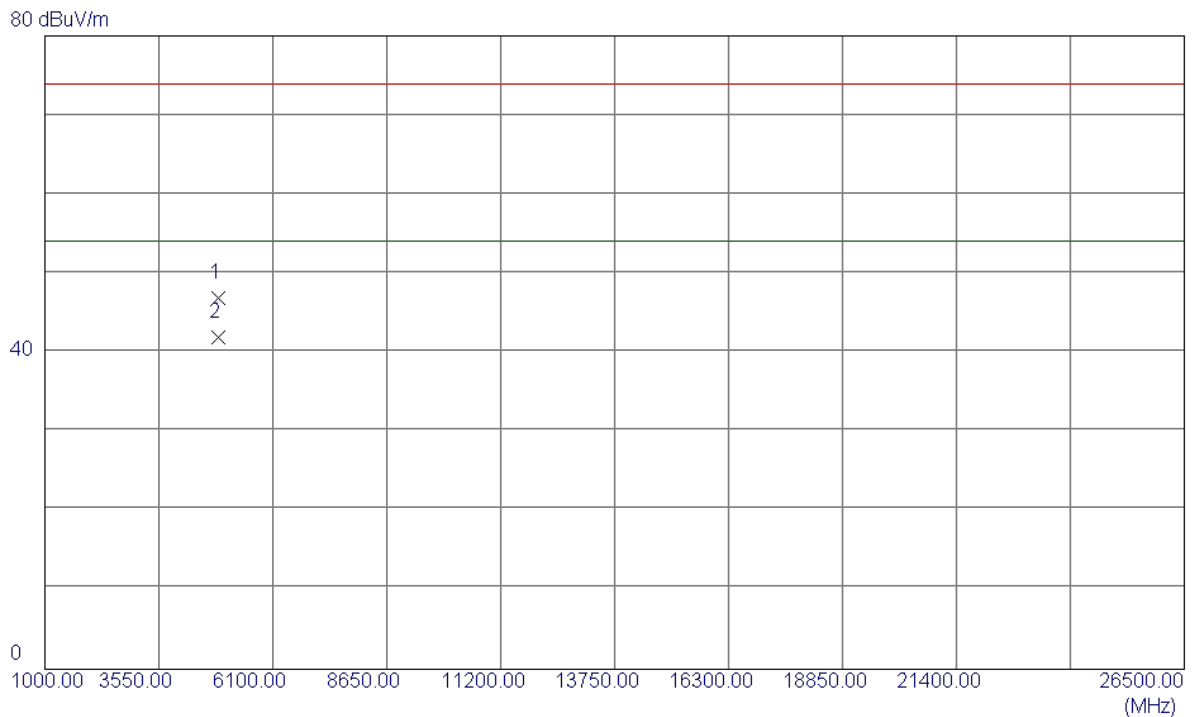
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2400.000	39.46	34.29	73.75	74.00	-0.25	peak	No Limit
2	X	2400.000	34.02	34.29	68.31	54.00	14.31	AVG	No Limit
3	*	2436.000	74.38	34.50	108.88	54.00	54.88	AVG	No Limit
4	X	2436.600	77.89	34.50	112.39	74.00	38.39	peak	No Limit
5		2480.000	28.64	34.75	63.39	74.00	-10.61	peak	No Limit
6	X	2480.000	19.54	34.75	54.29	54.00	0.29	AVG	No Limit

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

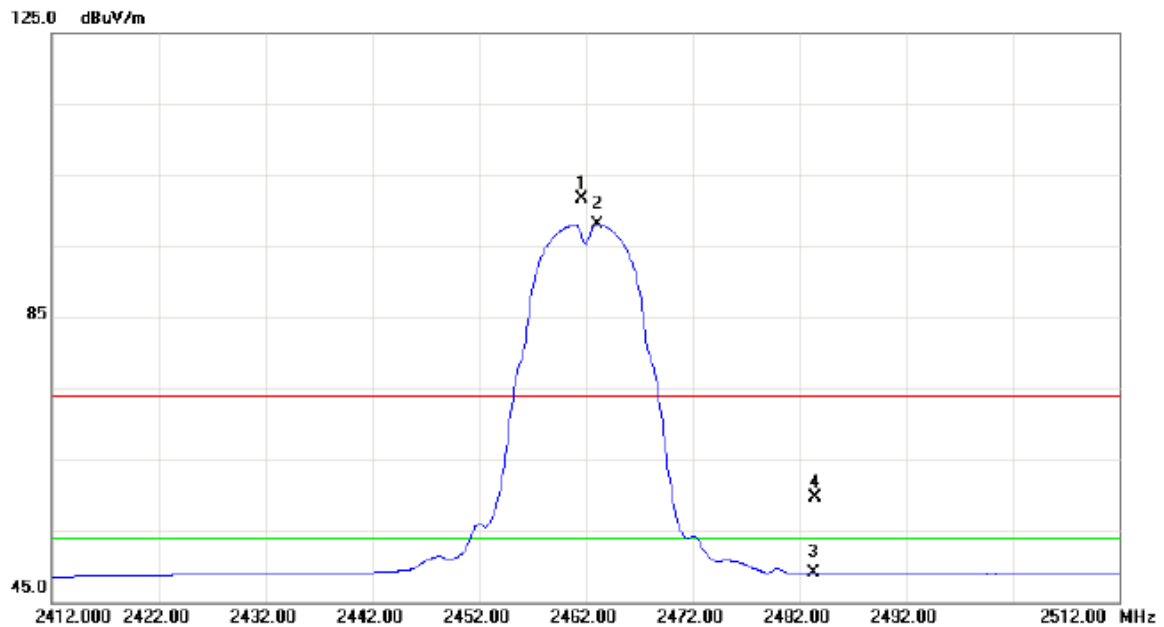
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9600	43.85	3.03	46.88	74.00	-27.12	Peak	
2	4874.0200	38.86	3.03	41.89	54.00	-12.11	AVG	

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

Vertical

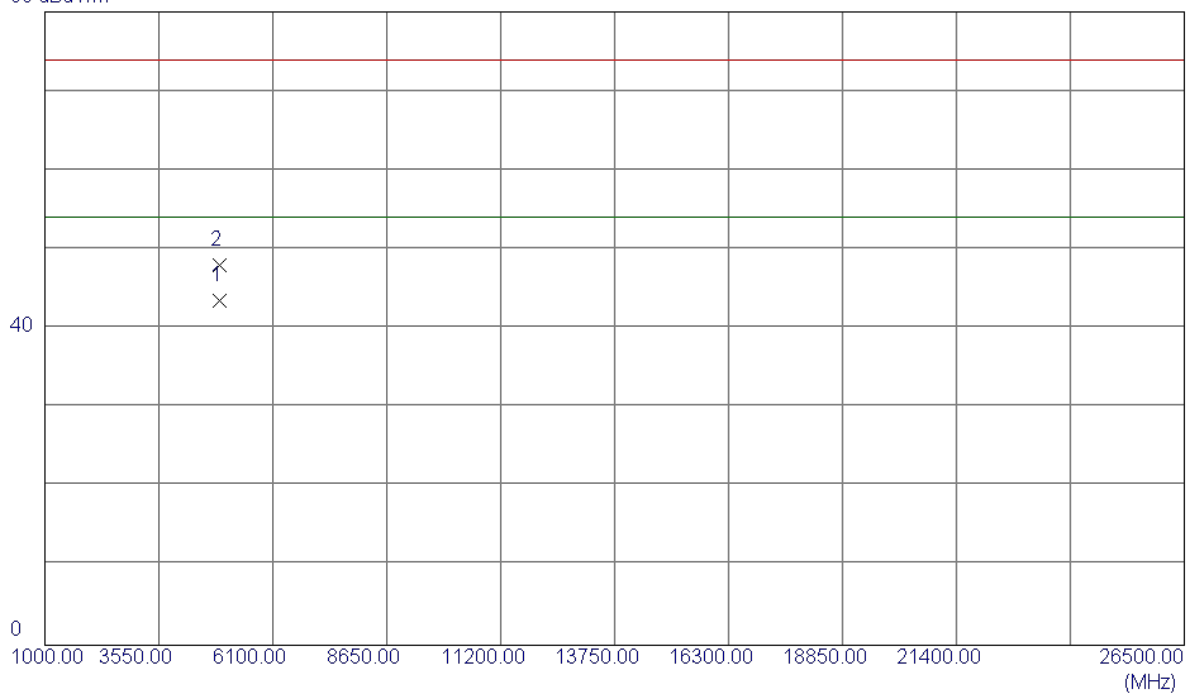


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2461.600	67.05	34.65	101.70	74.00	27.70	peak	No Limit
2	*	2463.100	63.53	34.66	98.19	54.00	44.19	AVG	No Limit
3		2483.250	14.27	34.78	49.05	54.00	-4.95	AVG	
4		2483.500	24.94	34.78	59.72	74.00	-14.28	peak	

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

Vertical

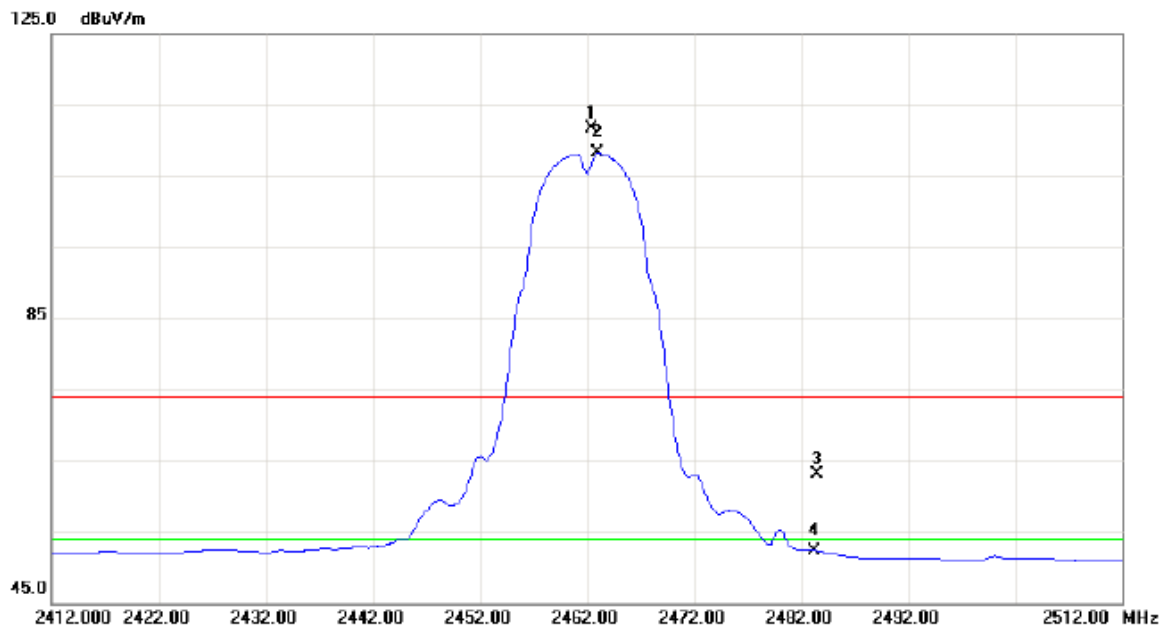
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4924.0200	40.53	3.05	43.58	54.00	-10.42	AVG	
2	4924.0600	44.96	3.05	48.01	74.00	-25.99	Peak	

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

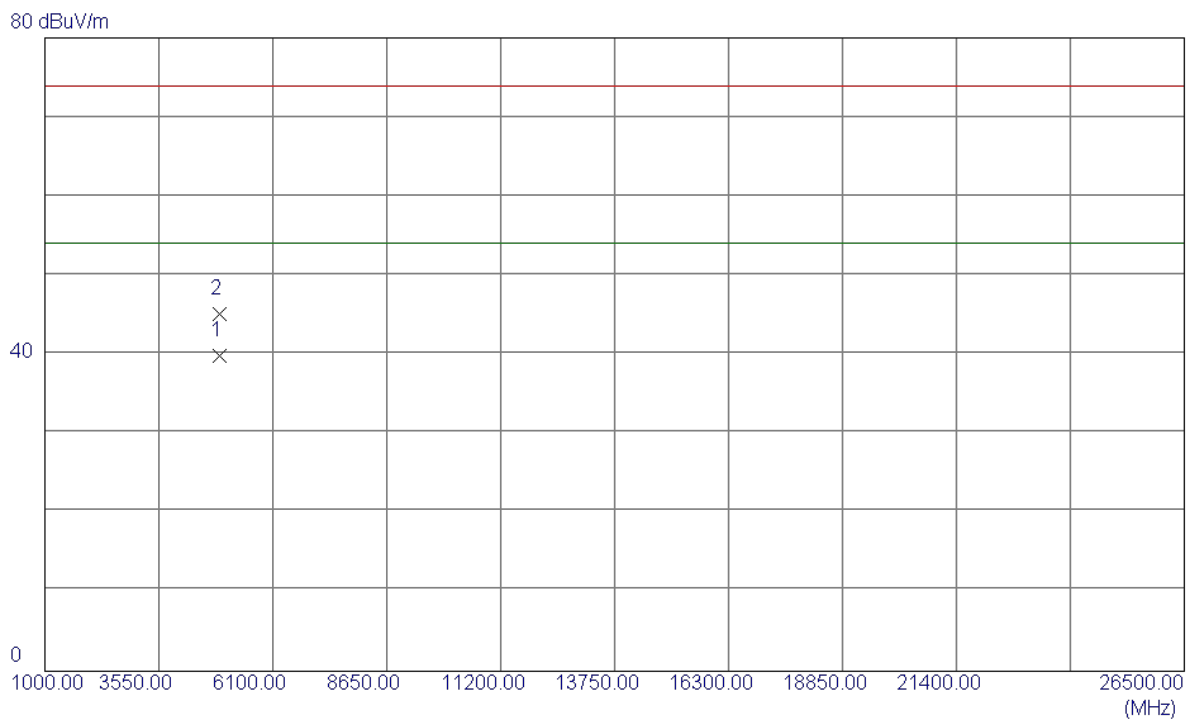
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2462.400	77.07	34.65	111.72	74.00	37.72	peak	No Limit
2	*	2463.000	73.62	34.66	108.28	54.00	54.28	AVG	No Limit
3		2483.500	28.34	34.78	63.12	74.00	-10.88	peak	
4		2483.500	17.61	34.78	52.39	54.00	-1.61	AVG	

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

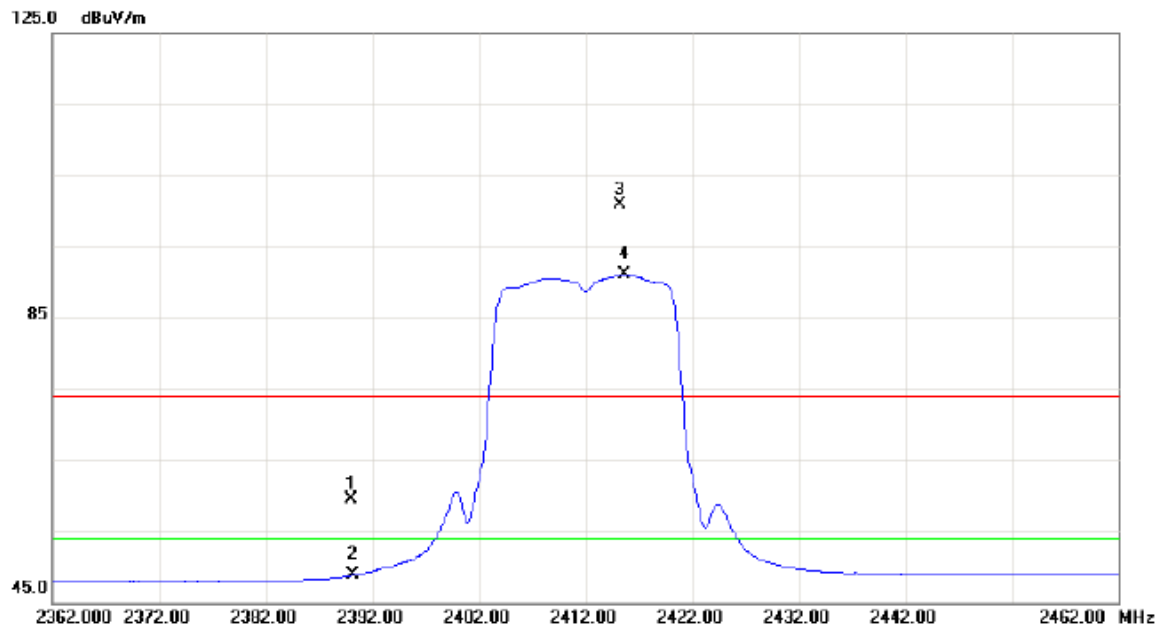
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0200	36.73	3.05	39.78	54.00	-14.22	AVG	
2	4924.0400	42.02	3.05	45.07	74.00	-28.93	Peak	

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

Vertical

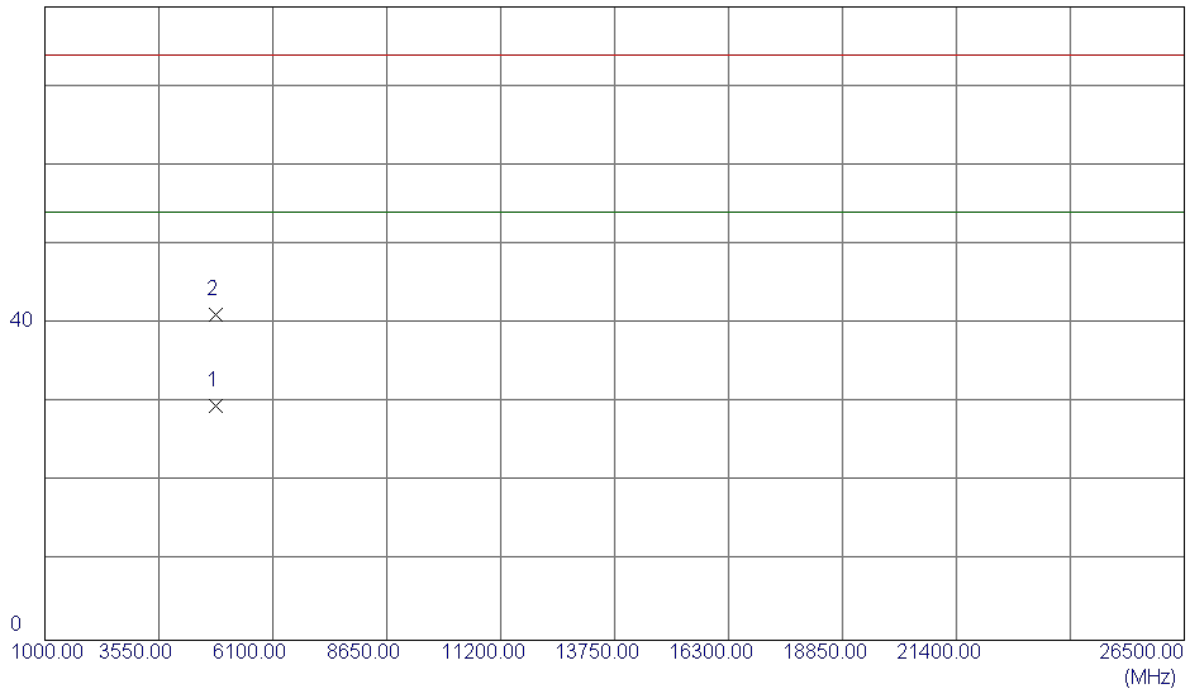


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.23	34.23	59.46	74.00	-14.54	peak	
2		2390.000	14.58	34.23	48.81	54.00	-5.19	AVG	
3	X	2415.200	66.61	34.38	100.99	74.00	26.99	peak	No Limit
4	*	2415.700	56.65	34.38	91.03	54.00	37.03	AVG	No Limit

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

Vertical

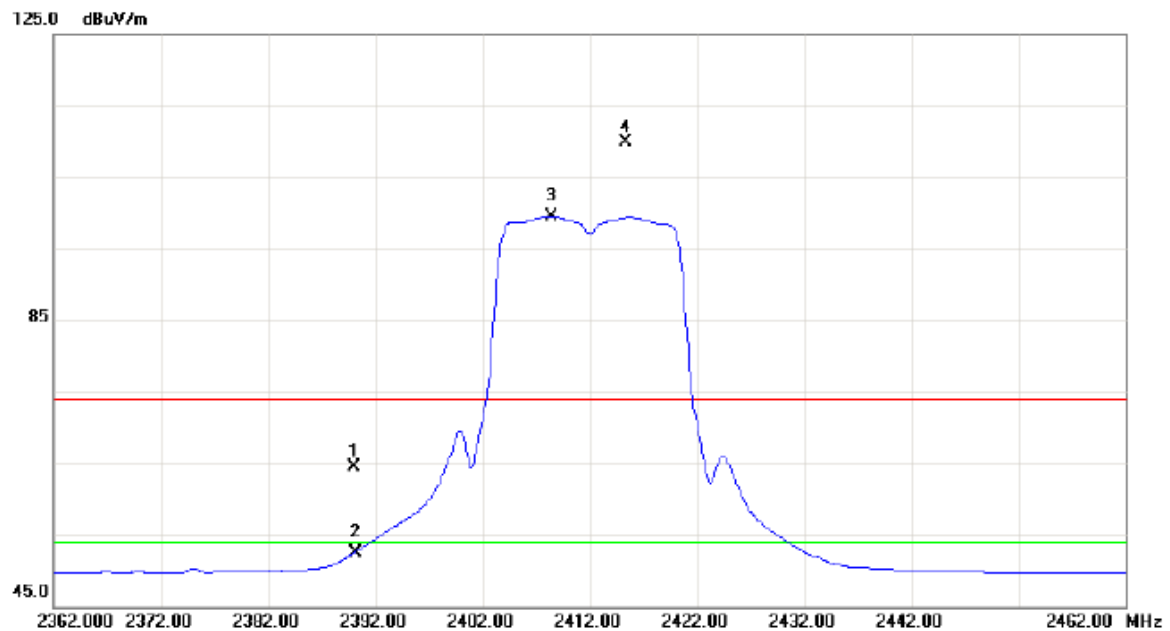
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4822.5000	26.59	3.00	29.59	54.00	-24.41	AVG	
2	4829.5000	38.15	3.01	41.16	74.00	-32.84	Peak	

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

Horizontal

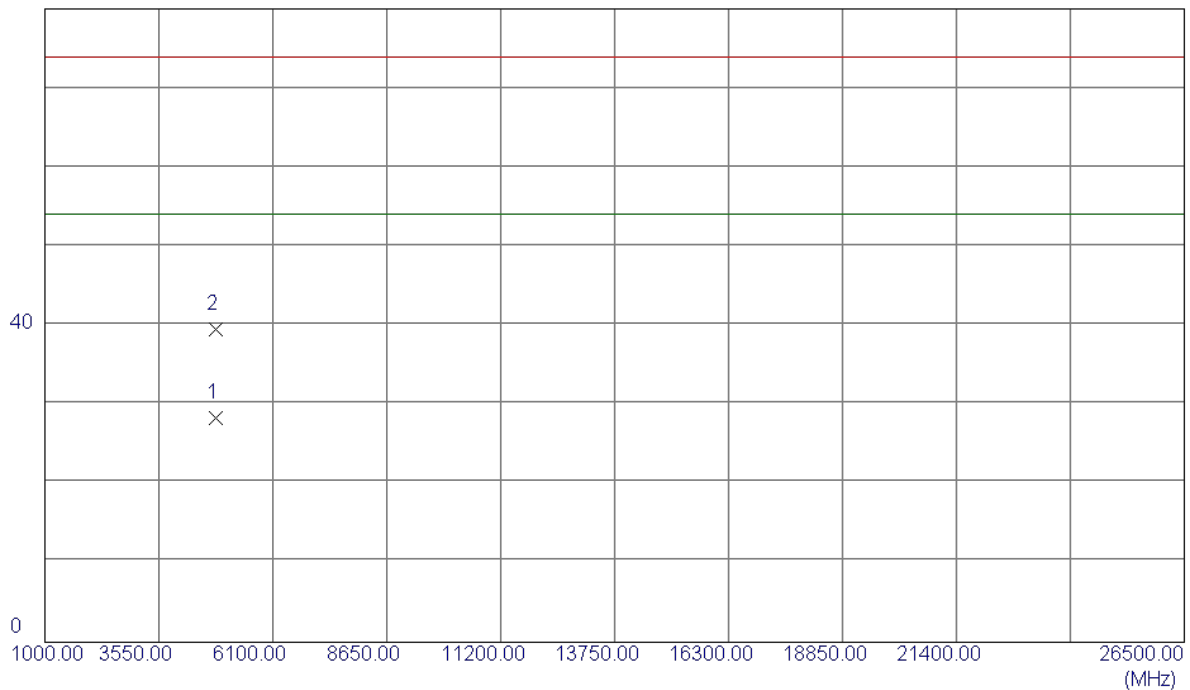


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	30.23	34.23	64.46	74.00	-9.54	peak	
2		2390.000	18.29	34.23	52.52	54.00	-1.48	AVG	
3	*	2408.400	65.21	34.34	99.55	54.00	45.55	AVG	No Limit
4	X	2415.400	75.47	34.38	109.85	74.00	35.85	peak	No Limit

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

Horizontal

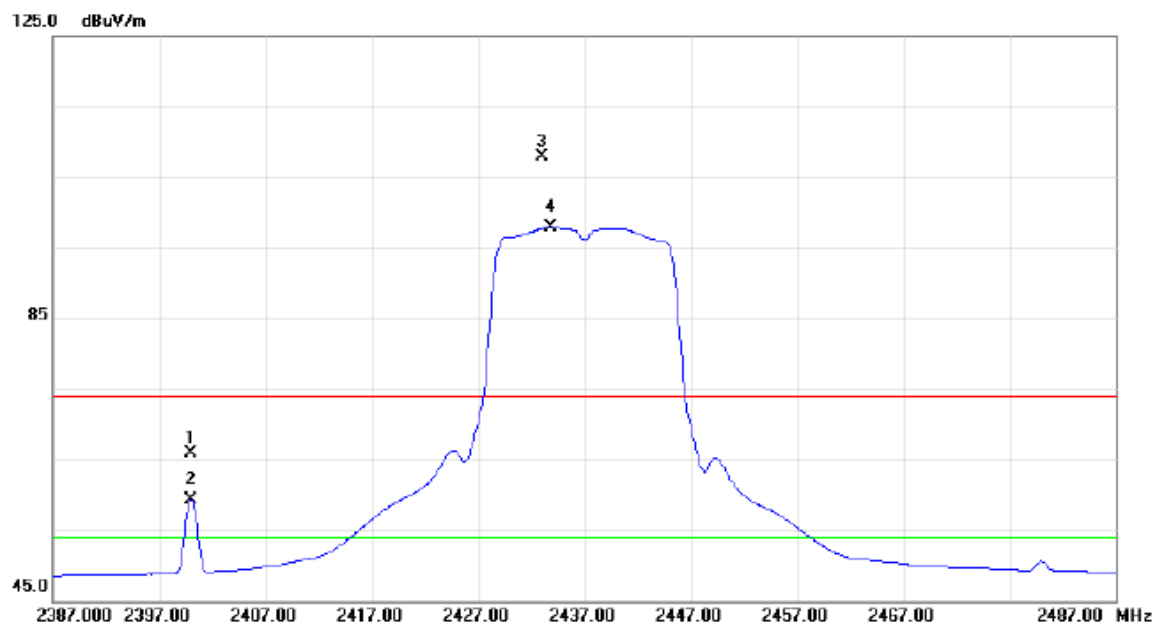
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4822.0000	25.30	3.00	28.30	54.00	-25.70	AVG	
2	4825.5000	36.47	3.00	39.47	74.00	-34.53	Peak	

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

Vertical

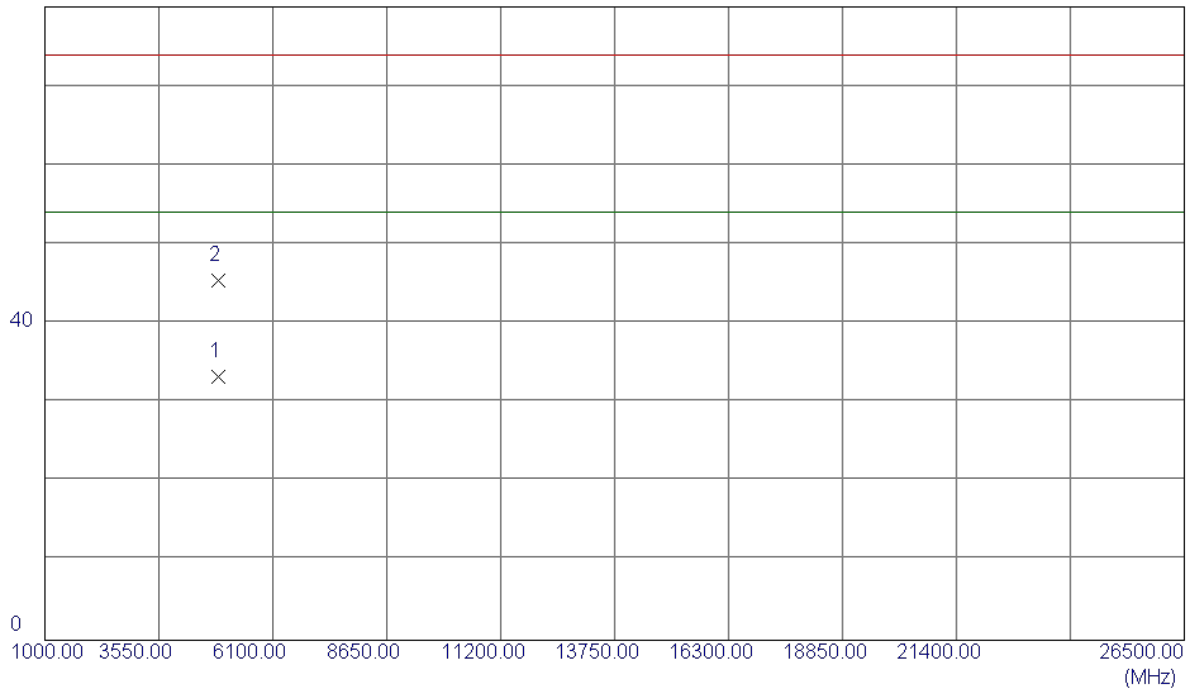


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2400.000	31.61	34.29	65.90	74.00	-8.10	peak	No Limit
2	X	2400.000	24.98	34.29	59.27	54.00	5.27	AVG	No Limit
3	X	2433.000	73.40	34.49	107.89	74.00	33.89	peak	No Limit
4	*	2433.900	63.41	34.49	97.90	54.00	43.90	AVG	No Limit

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

Vertical

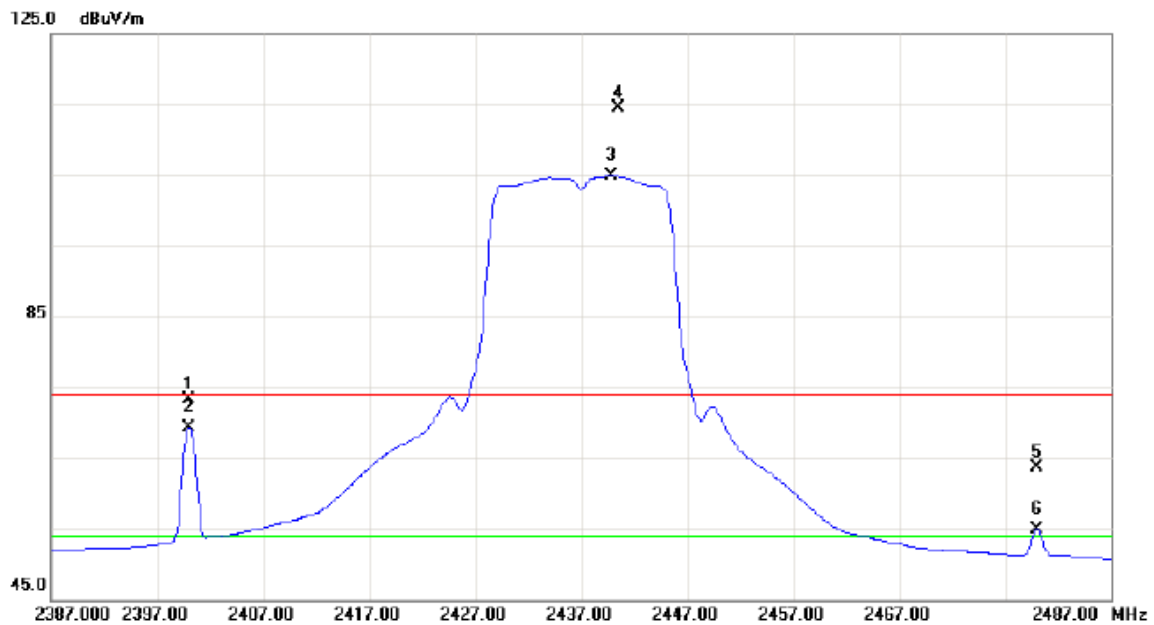
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4875.0000	30.25	3.03	33.28	54.00	-20.72	AVG	
2	4875.5000	42.40	3.03	45.43	74.00	-28.57	Peak	

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

Horizontal

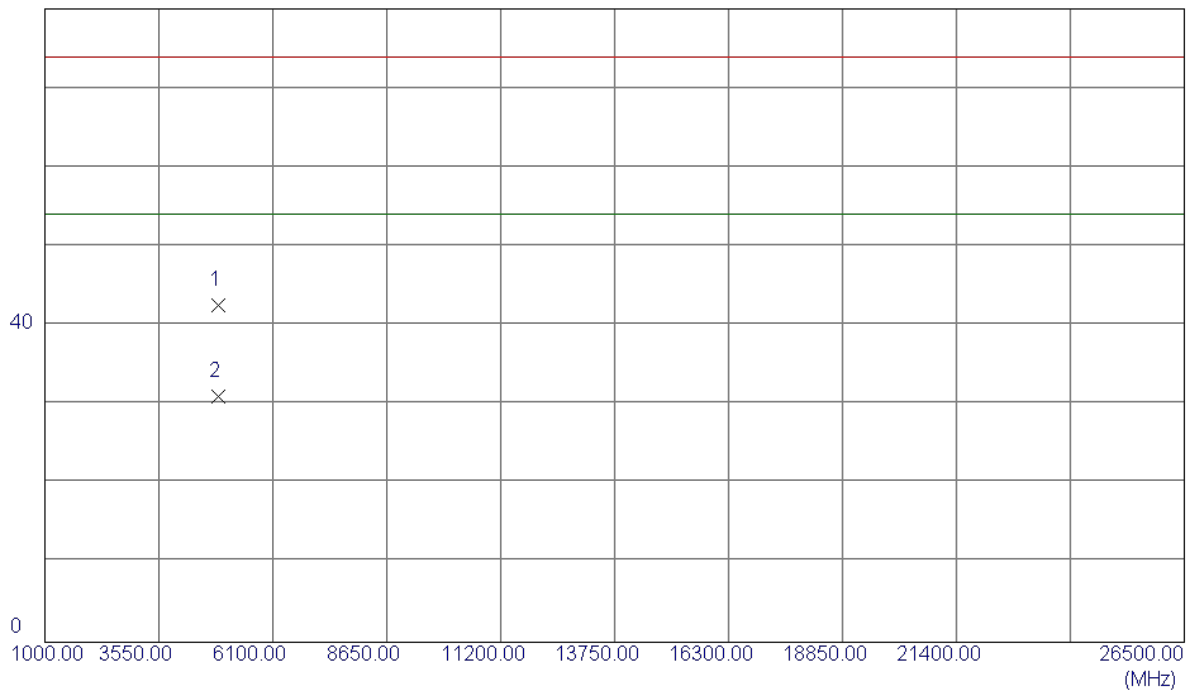


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2400.000	38.95	34.29	73.24	74.00	-0.76	peak	No Limit
2	X	2400.000	34.99	34.29	69.28	54.00	15.28	AVG	No Limit
3	*	2439.800	70.33	34.52	104.85	54.00	50.85	AVG	No Limit
4	X	2440.500	80.01	34.52	114.53	74.00	40.53	peak	No Limit
5		2480.000	28.98	34.75	63.73	74.00	-10.27	peak	No Limit
6	X	2480.000	20.14	34.75	54.89	54.00	0.89	AVG	No Limit

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

Horizontal

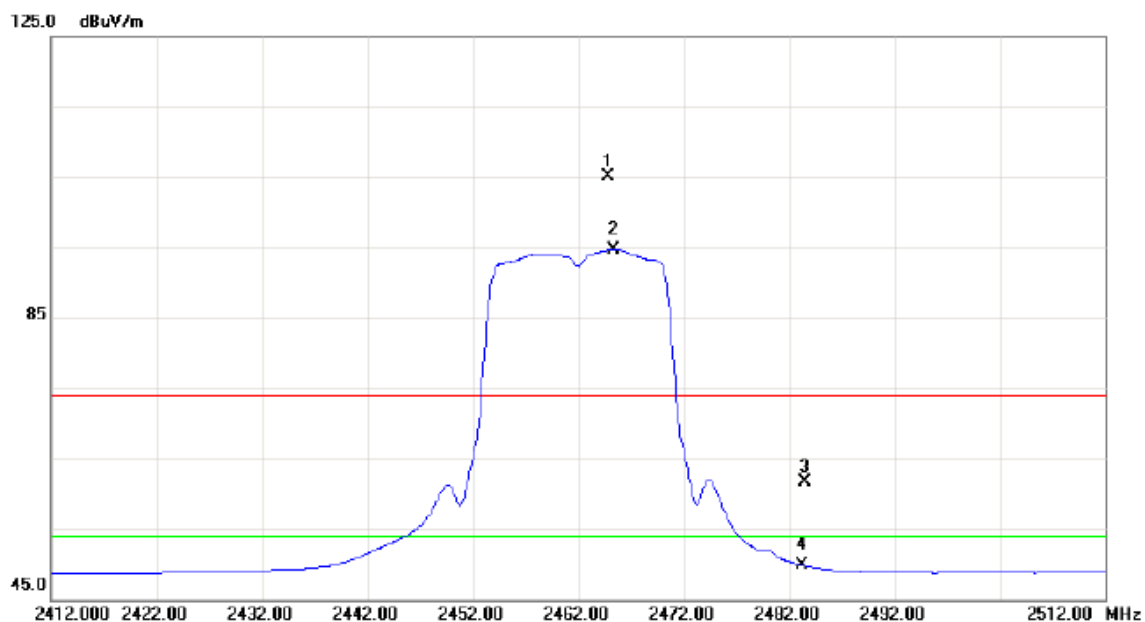
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.5000	39.49	3.03	42.52	74.00	-31.48	Peak	
2	4873.5000	27.96	3.03	30.99	54.00	-23.01	AVG	

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

Vertical

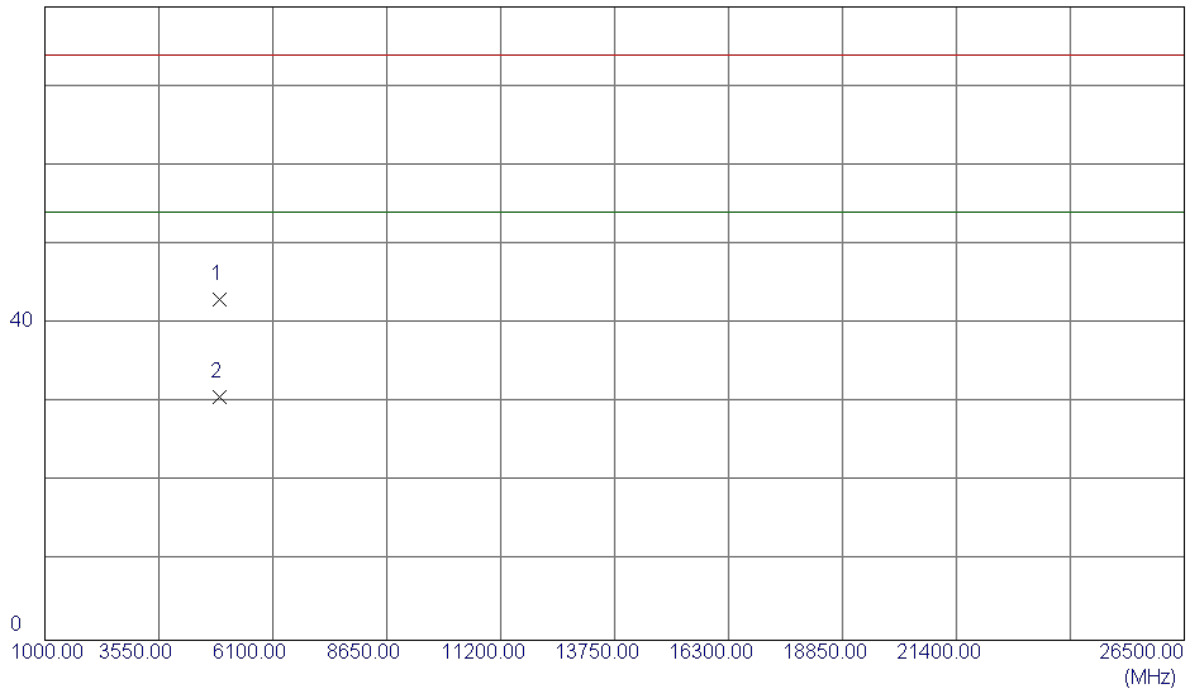


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2464.900	70.37	34.66	105.03	74.00	31.03	peak	No Limit
2	*	2465.400	60.03	34.67	94.70	54.00	40.70	AVG	No Limit
3		2483.500	26.95	34.78	61.73	74.00	-12.27	peak	
4		2483.500	15.04	34.78	49.82	54.00	-4.18	AVG	

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

Vertical

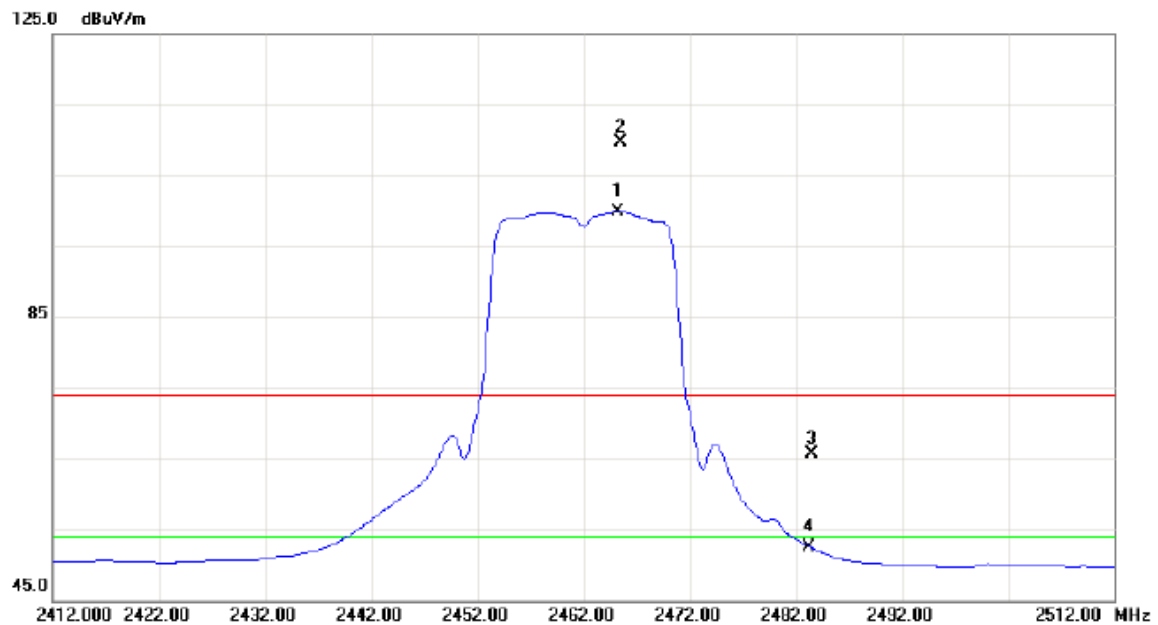
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.5000	39.95	3.05	43.00	74.00	-31.00	Peak	
2	4924.0000	27.65	3.05	30.70	54.00	-23.30	AVG	

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

Horizontal

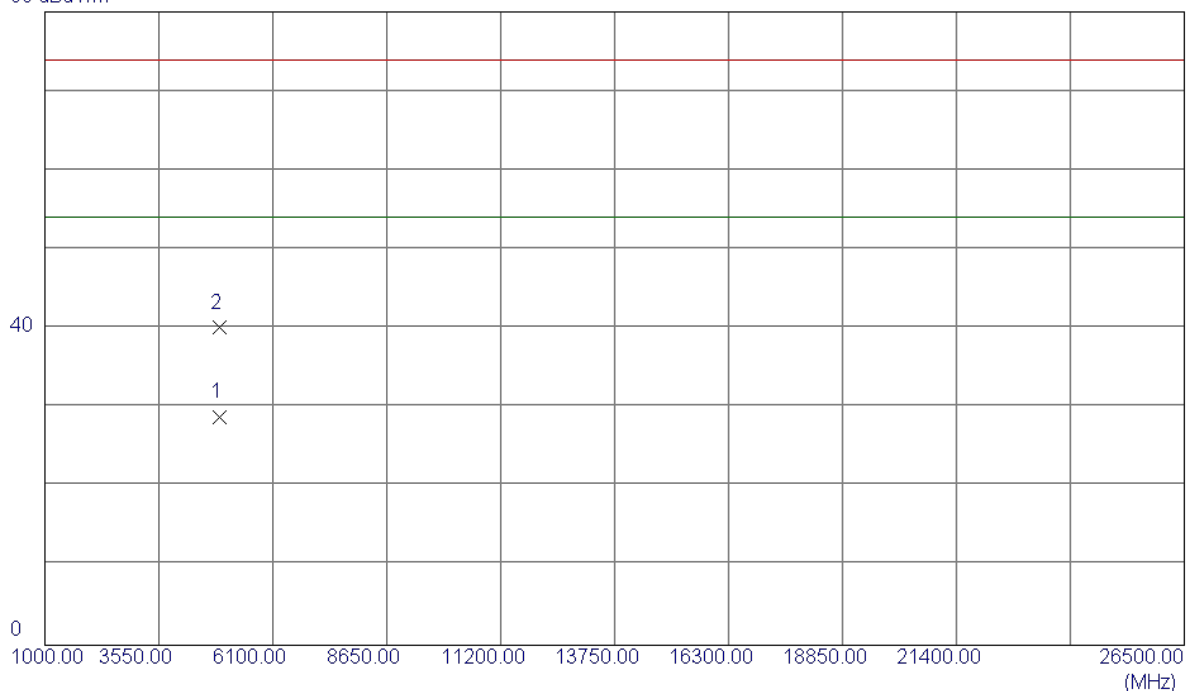


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2465.200	65.21	34.67	99.88	54.00	45.88	AVG	No Limit
2	X	2465.500	75.12	34.67	109.79	74.00	35.79	peak	No Limit
3		2483.500	30.97	34.78	65.75	74.00	-8.25	peak	
4		2483.500	17.72	34.78	52.50	54.00	-1.50	AVG	

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

Horizontal

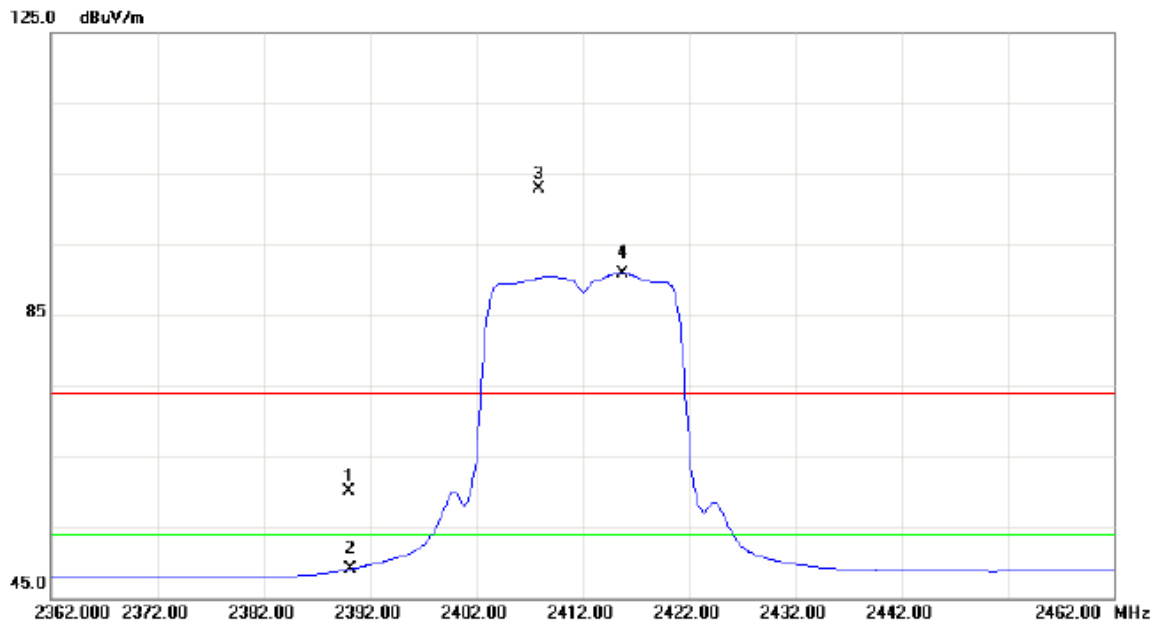
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4921.5000	25.80	3.05	28.85	54.00	-25.15	AVG	
2	4922.0000	37.03	3.05	40.08	74.00	-33.92	Peak	

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

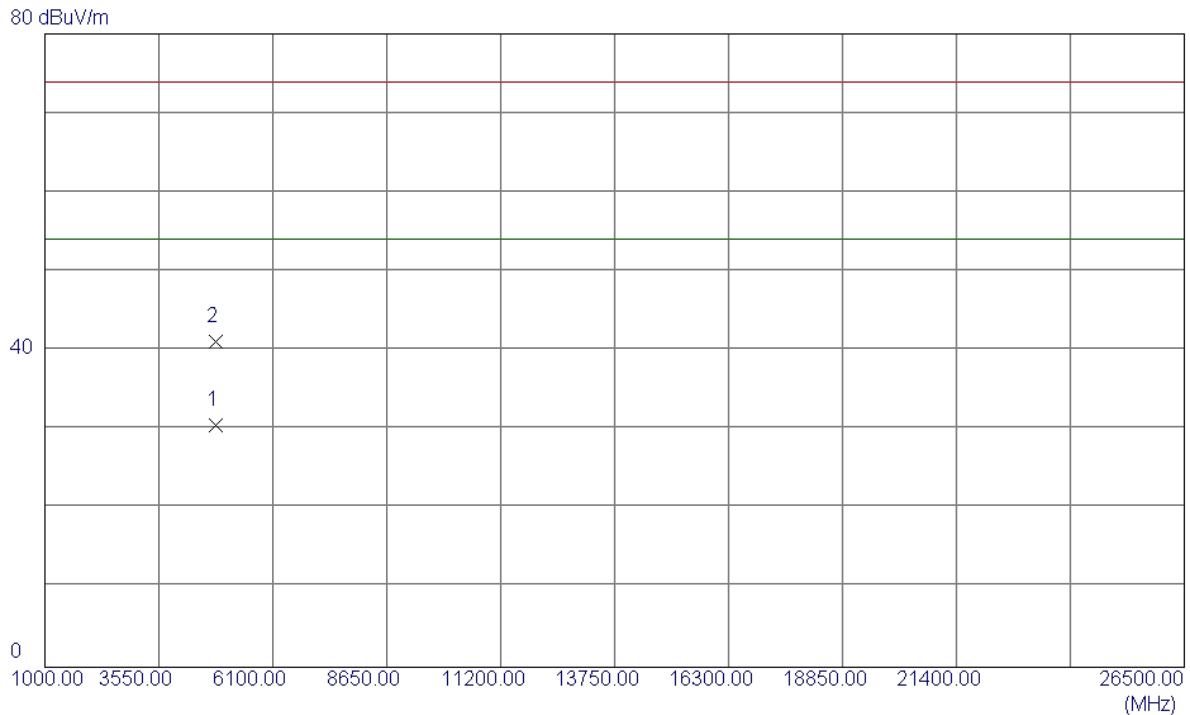
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	25.79	34.23	60.02	74.00	-13.98	peak	
2		2390.000	14.83	34.23	49.06	54.00	-4.94	AVG	
3	X	2407.900	68.50	34.34	102.84	74.00	28.84	peak	No Limit
4	*	2415.800	56.61	34.38	90.99	54.00	36.99	AVG	No Limit

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

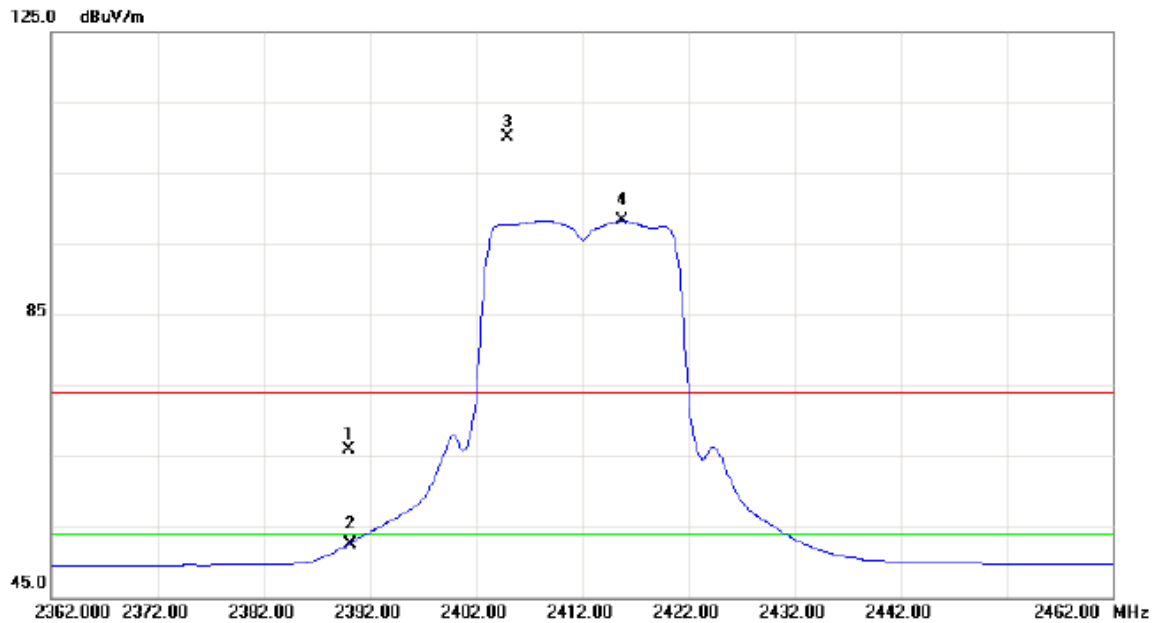
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4824.0000	27.62	3.00	30.62	54.00	-23.38	AVG	
2	4826.0000	38.13	3.01	41.14	74.00	-32.86	Peak	

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

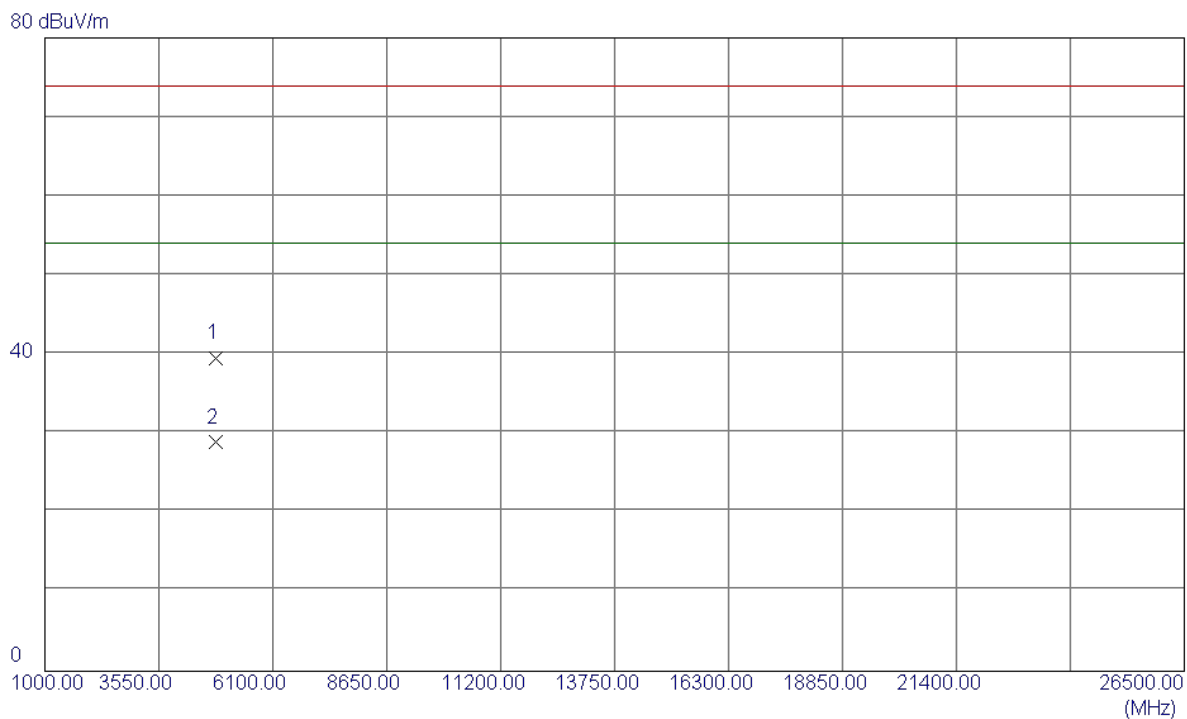
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	31.69	34.23	65.92	74.00	-8.08	peak	
2		2390.000	18.35	34.23	52.58	54.00	-1.42	AVG	
3	X	2405.000	75.72	34.32	110.04	74.00	36.04	peak	No Limit
4	*	2415.800	63.95	34.38	98.33	54.00	44.33	AVG	No Limit

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

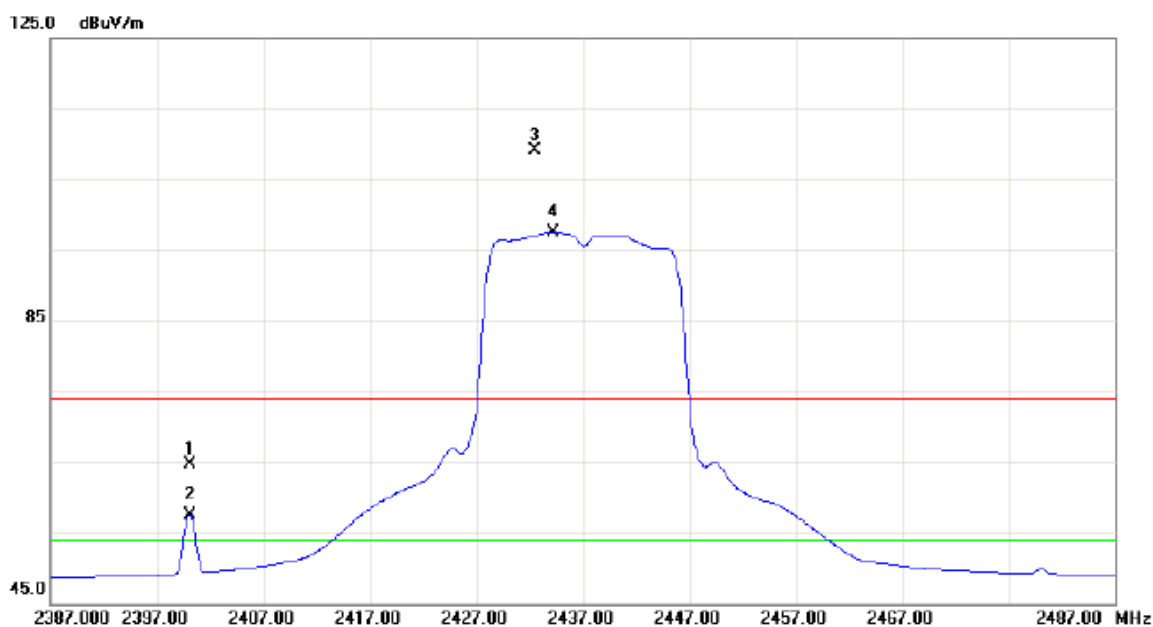
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.0000	36.49	3.00	39.49	74.00	-34.51	Peak	
2	4823.5000	25.88	3.00	28.88	54.00	-25.12	AVG	

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

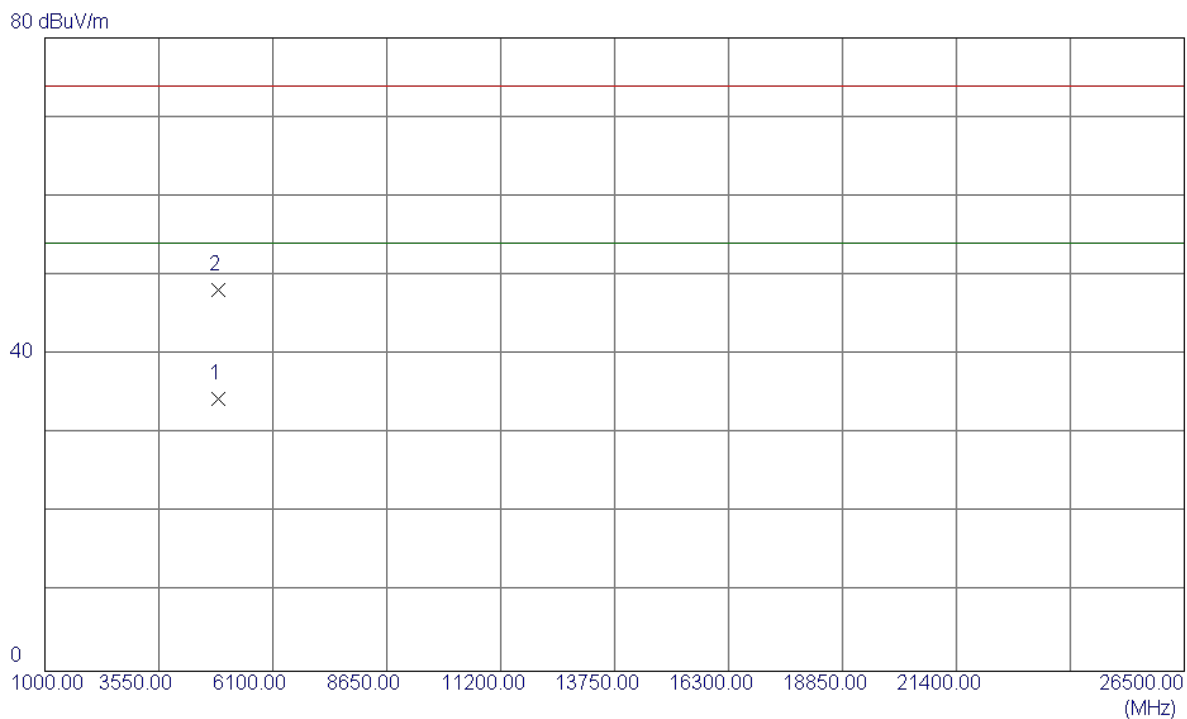
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2400.100	30.36	34.29	64.65	74.00	-9.35	peak	No Limit
2	X	2400.100	23.28	34.29	57.57	54.00	3.57	AVG	No Limit
3	X	2432.500	74.56	34.48	109.04	74.00	35.04	peak	No Limit
4	*	2434.300	63.06	34.49	97.55	54.00	43.55	AVG	No Limit

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

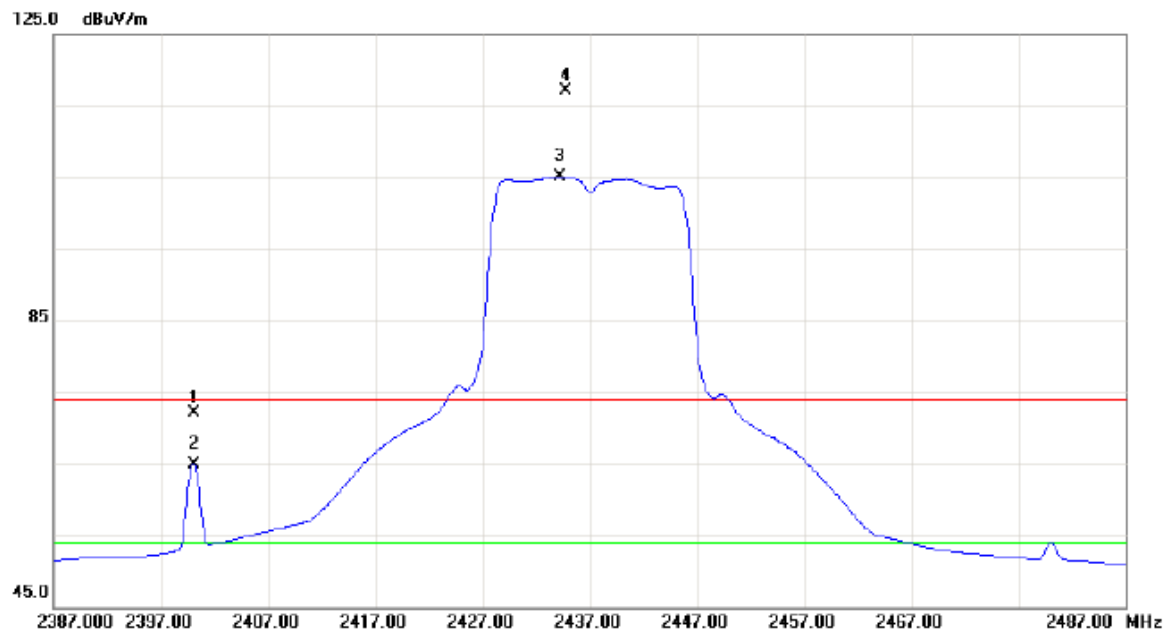
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.5000	31.34	3.03	34.37	54.00	-19.63	AVG	
2	4876.0000	45.06	3.03	48.09	74.00	-25.91	Peak	

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

Horizontal

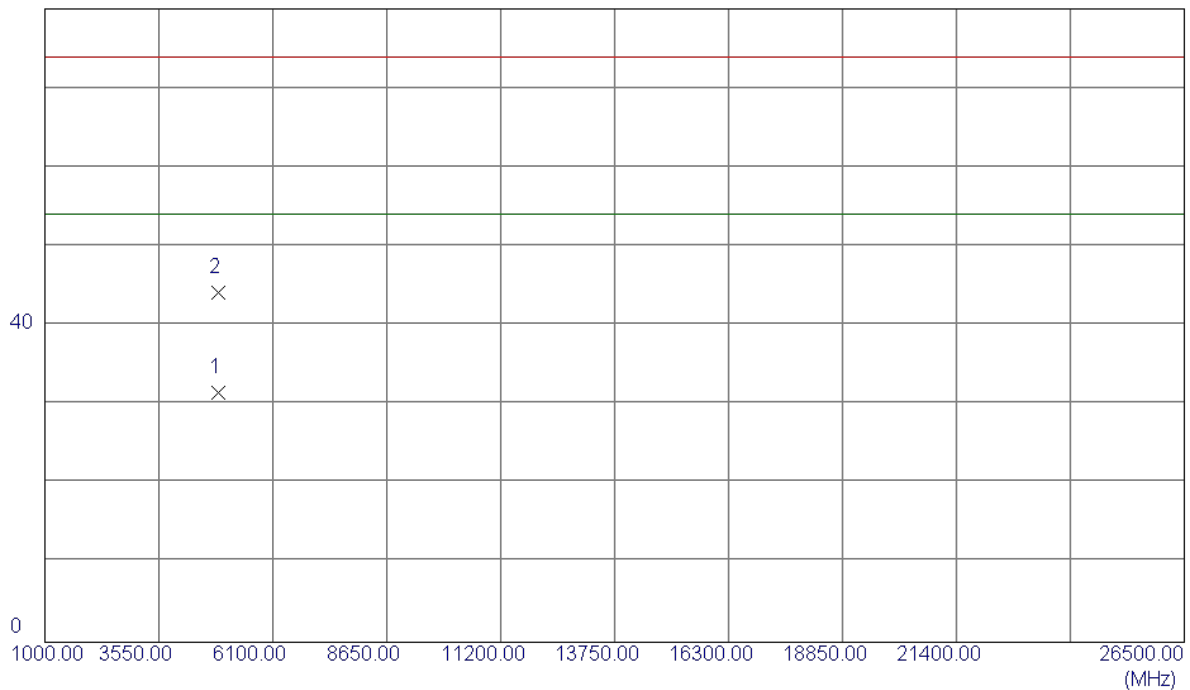


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2400.100	37.86	34.29	72.15	74.00	-1.85	peak	No Limit
2	X	2400.100	30.59	34.29	64.88	54.00	10.88	AVG	No Limit
3	*	2434.200	70.59	34.49	105.08	54.00	51.08	AVG	No Limit
4	X	2434.800	82.54	34.49	117.03	74.00	43.03	peak	No Limit

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

Horizontal

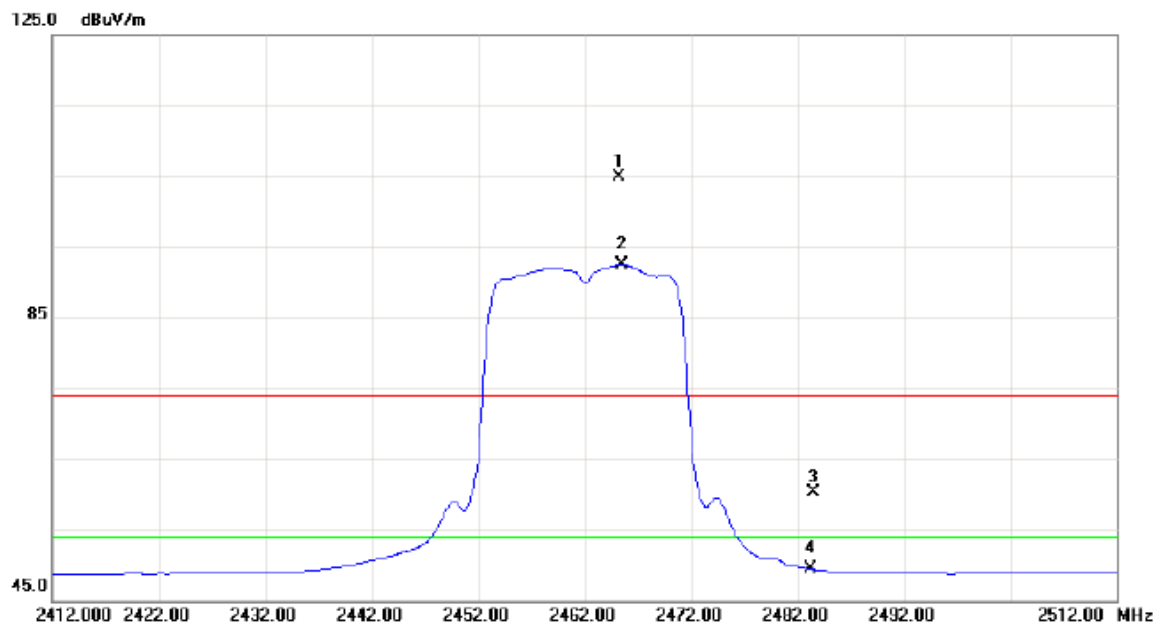
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.5000	28.50	3.03	31.53	54.00	-22.47	AVG	
2	4876.0000	41.17	3.03	44.20	74.00	-29.80	Peak	

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

Vertical

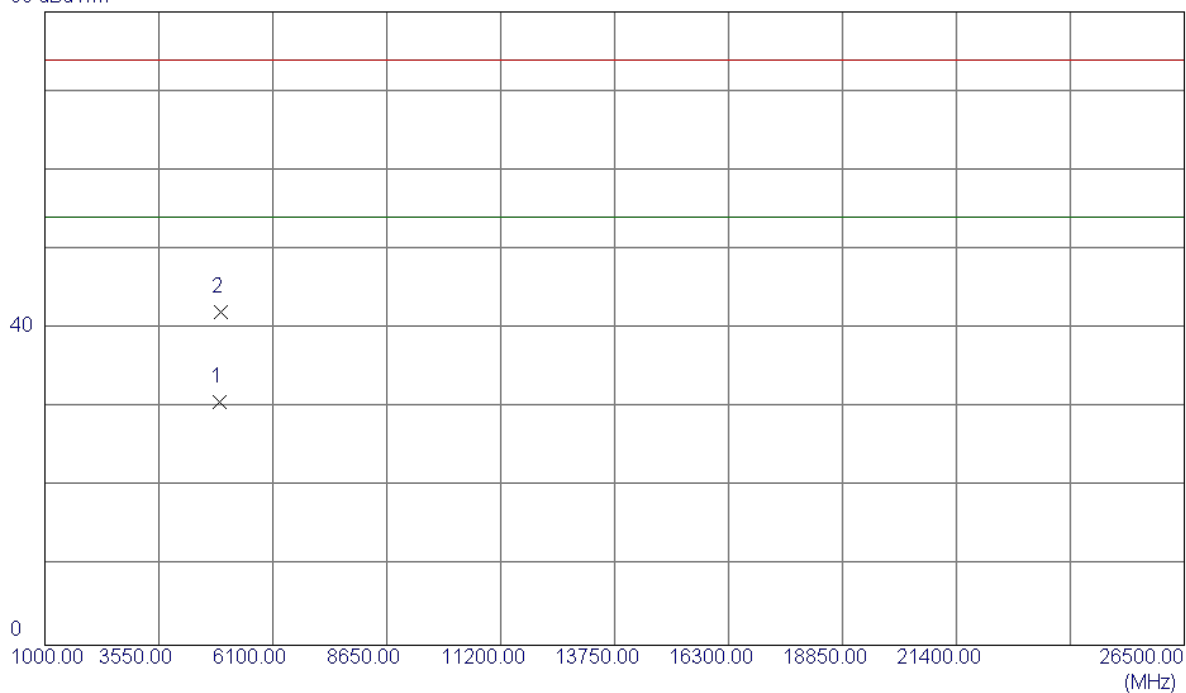


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2465.300	70.29	34.67	104.96	74.00	30.96	peak	No Limit
2	*	2465.500	57.86	34.67	92.53	54.00	38.53	AVG	No Limit
3		2483.500	25.49	34.78	60.27	74.00	-13.73	peak	
4		2483.500	14.66	34.78	49.44	54.00	-4.56	AVG	

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

Vertical

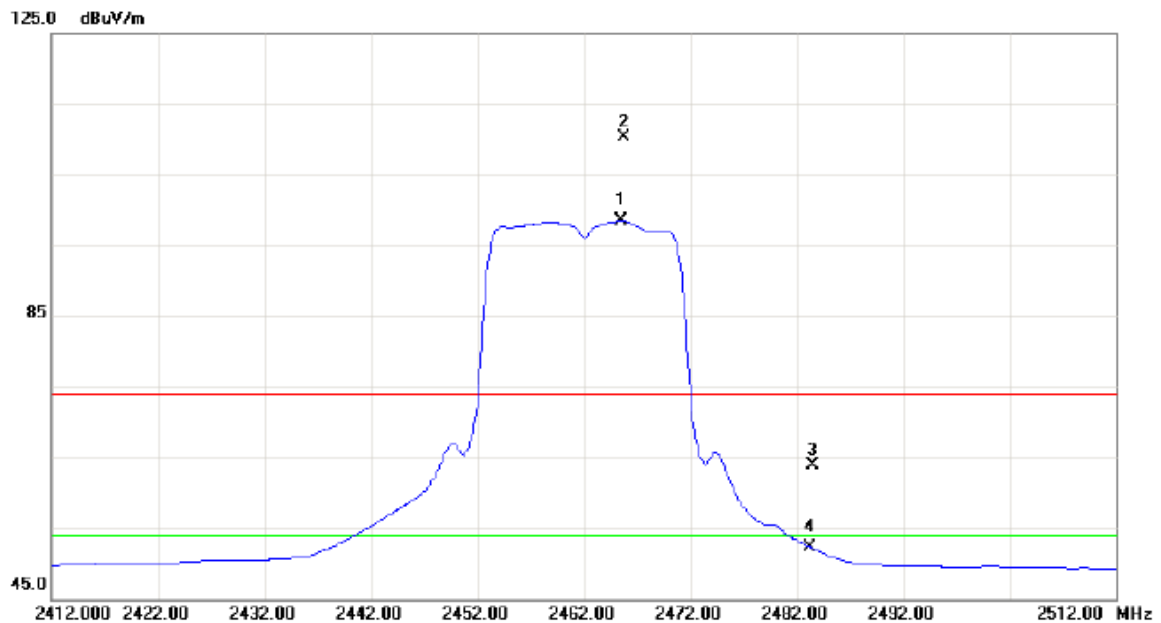
80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	27.60	3.05	30.65	54.00	-23.35	AVG	
2	4924.5000	38.97	3.05	42.02	74.00	-31.98	Peak	

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

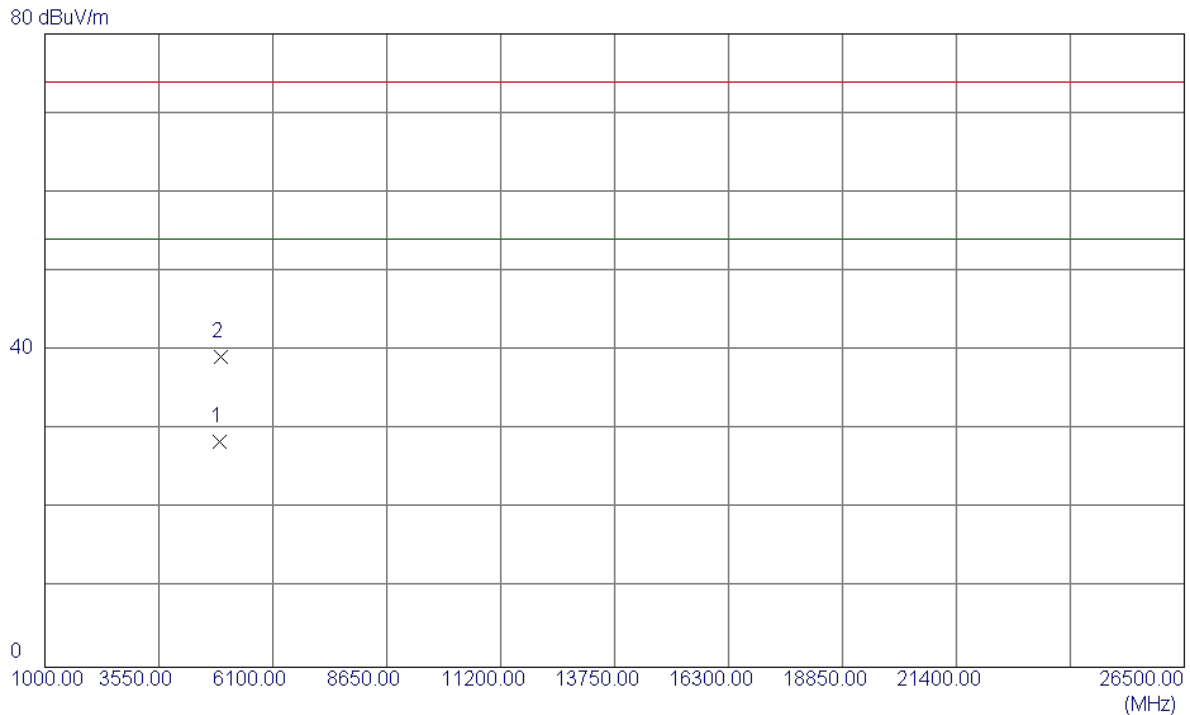
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2465.500	63.81	34.67	98.48	54.00	44.48	AVG	No Limit
2	X	2465.800	75.71	34.67	110.38	74.00	36.38	peak	No Limit
3		2483.500	29.09	34.78	63.87	74.00	-10.13	peak	
4		2483.500	17.43	34.78	52.21	54.00	-1.79	AVG	

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

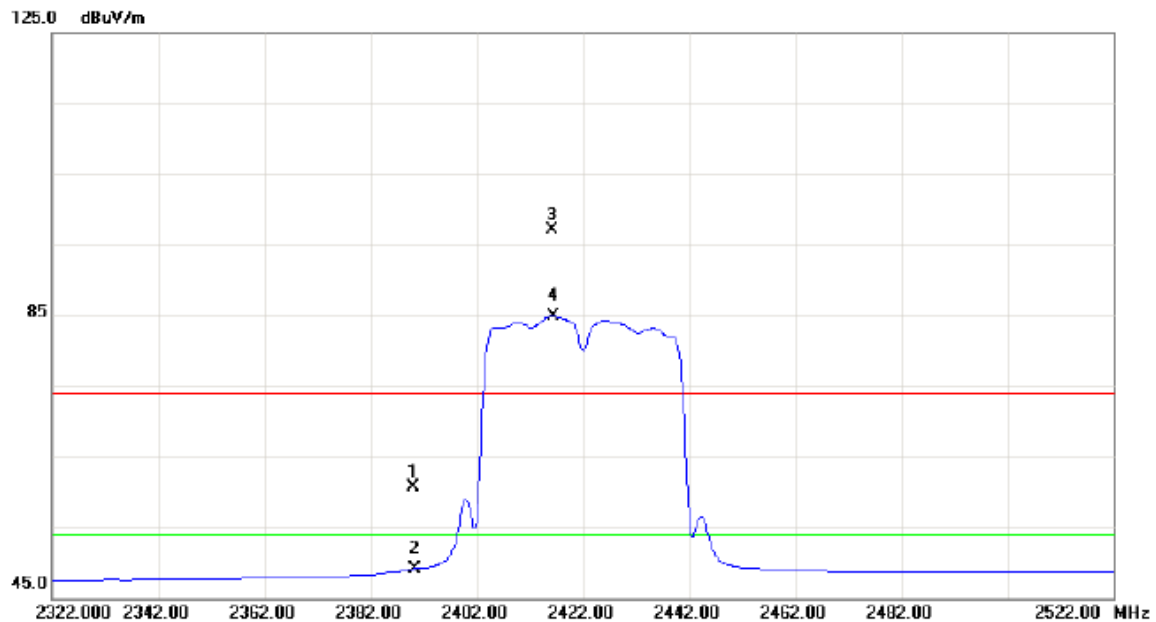
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.0000	25.37	3.05	28.42	54.00	-25.58	AVG	
2	4926.5000	36.13	3.05	39.18	74.00	-34.82	Peak	

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

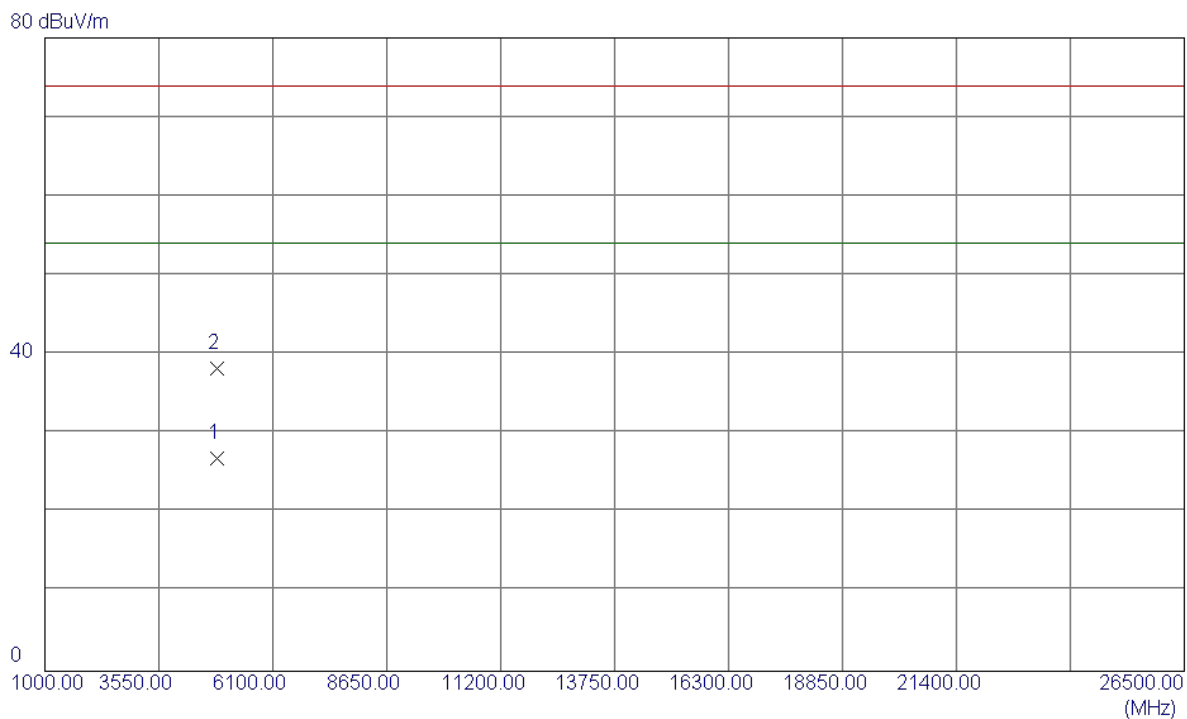
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	26.42	34.23	60.65	74.00	-13.35	peak	
2		2390.000	14.97	34.23	49.20	54.00	-4.80	AVG	
3	X	2416.200	62.73	34.38	97.11	74.00	23.11	peak	No Limit
4	*	2416.400	50.56	34.38	84.94	54.00	30.94	AVG	No Limit

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

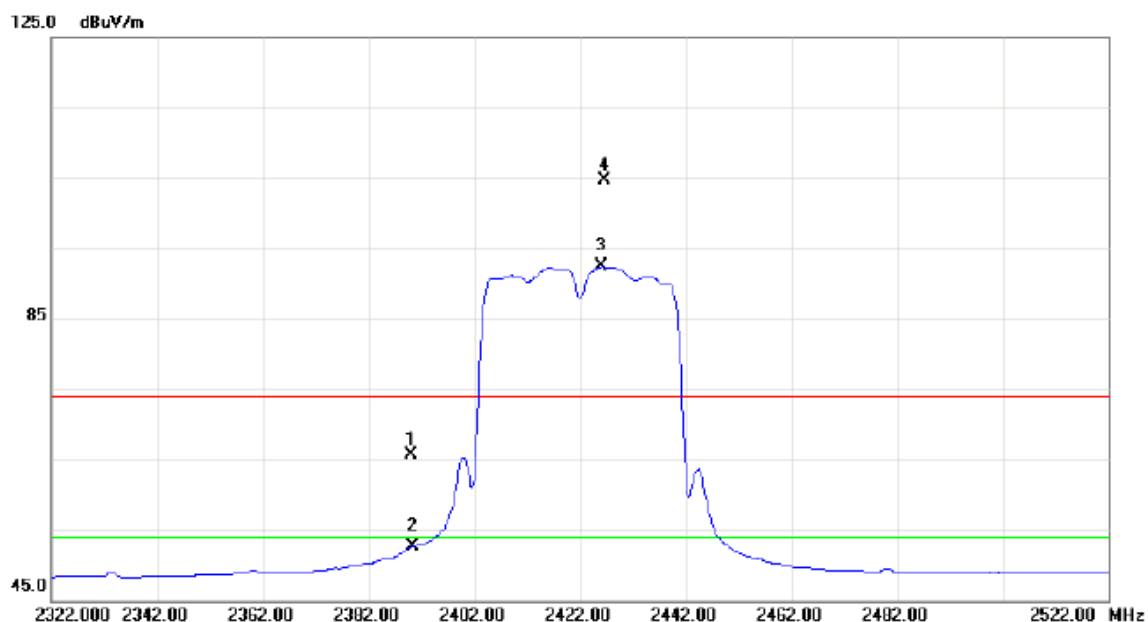
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4844.2000	23.81	3.01	26.82	54.00	-27.18	AVG	
2	4844.4000	35.17	3.01	38.18	74.00	-35.82	Peak	

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

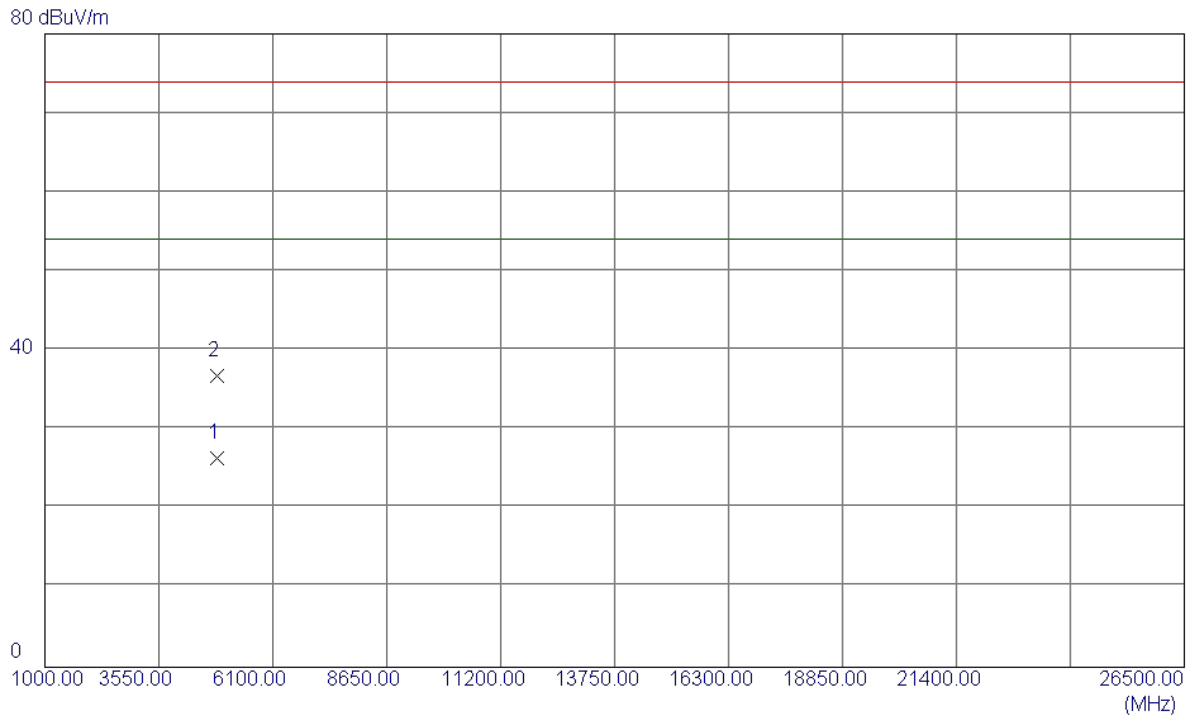
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	31.54	34.23	65.77	74.00	-8.23	peak	
2		2390.000	18.38	34.23	52.61	54.00	-1.39	AVG	
3	*	2426.200	58.00	34.44	92.44	54.00	38.44	AVG	No Limit
4	X	2426.600	70.20	34.44	104.64	74.00	30.64	peak	No Limit

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

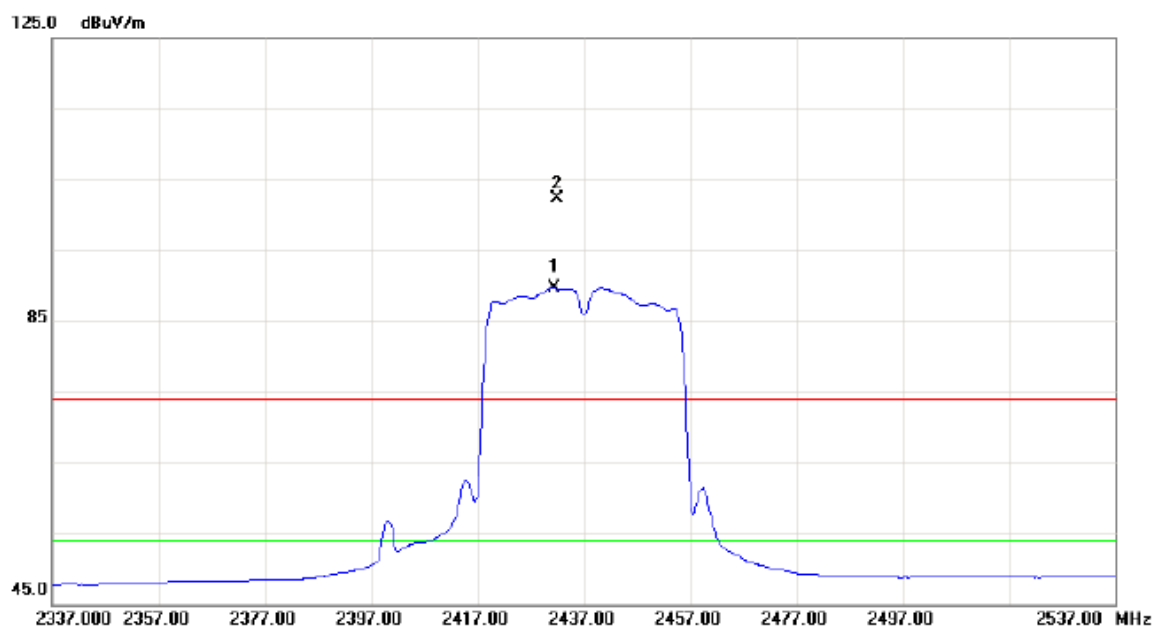
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.6000	23.38	3.01	26.39	54.00	-27.61	AVG	
2	4843.8000	33.83	3.01	36.84	74.00	-37.16	Peak	

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

Vertical

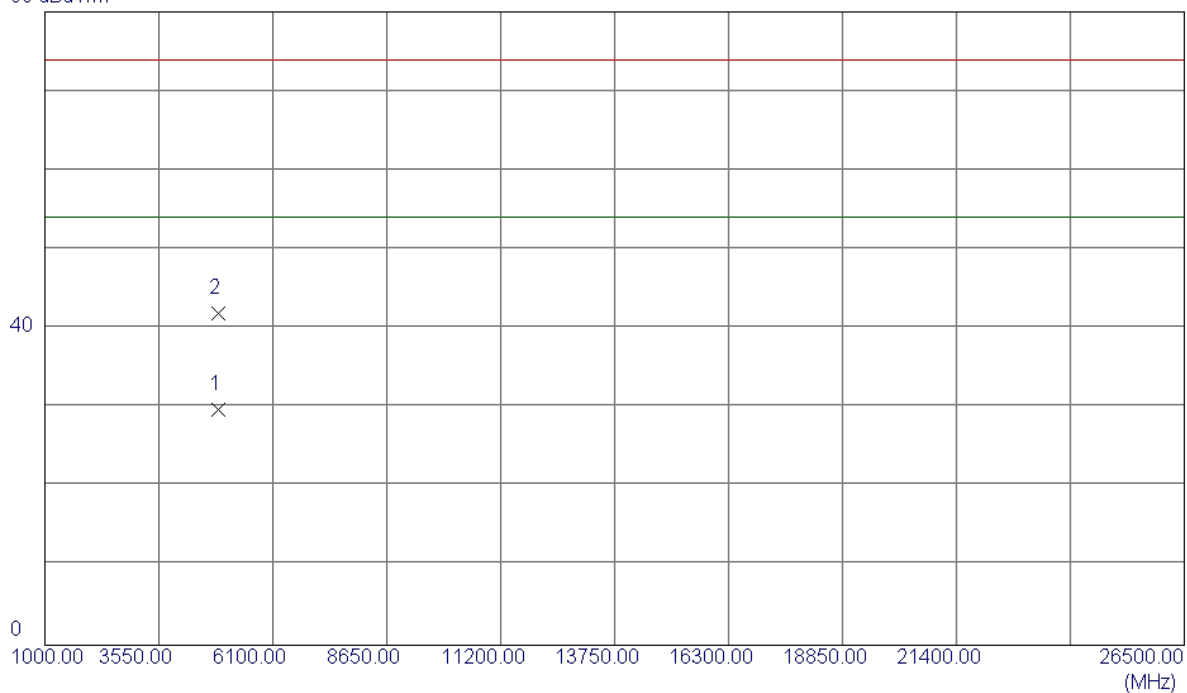


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2431.400	55.16	34.48	89.64	54.00	35.64	AVG	No Limit
2	X	2432.000	67.80	34.48	102.28	74.00	28.28	peak	No Limit

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

Vertical

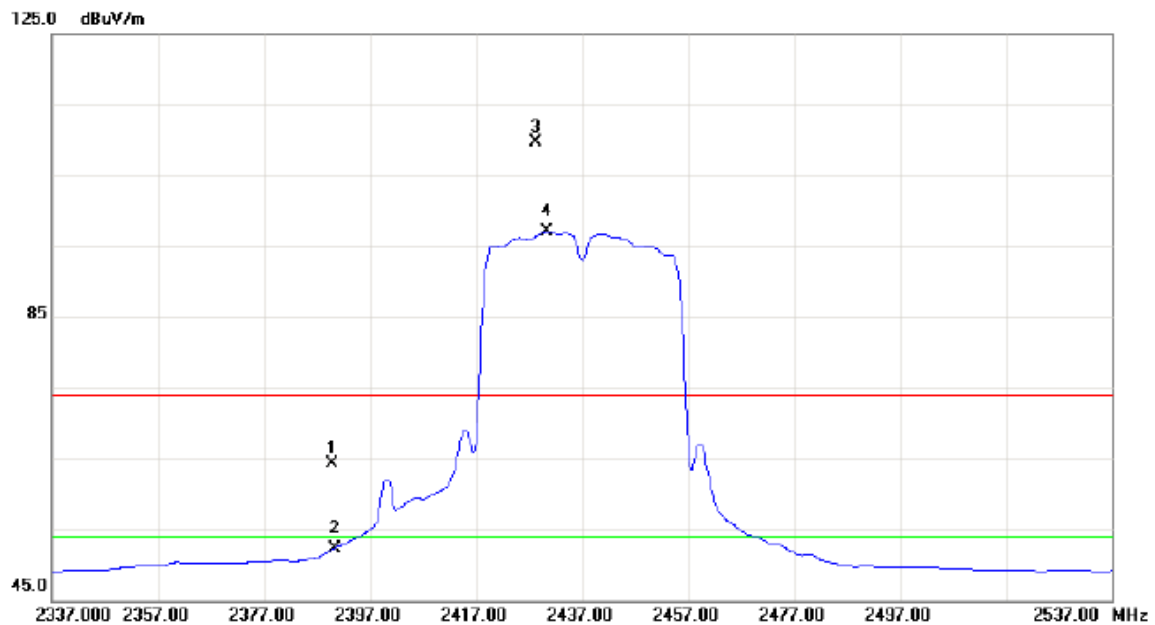
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4869.5000	26.79	3.02	29.81	54.00	-24.19	AVG	
2	4875.0000	38.93	3.03	41.96	74.00	-32.04	Peak	

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

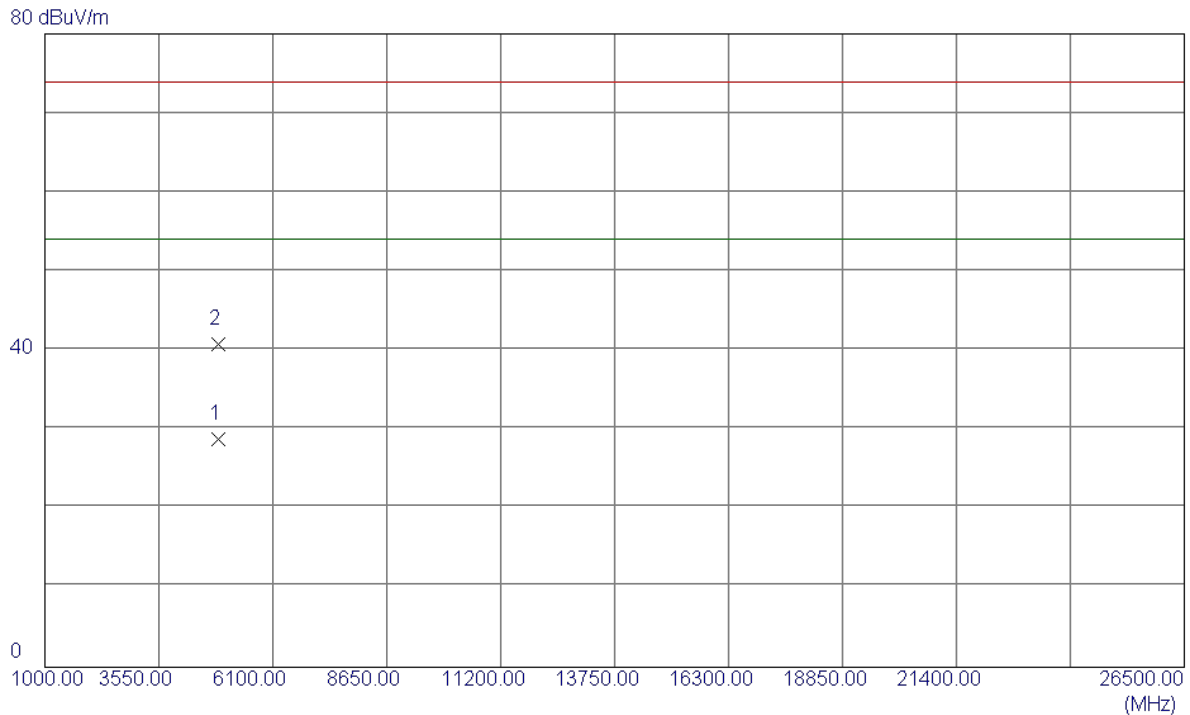
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	30.07	34.23	64.30	74.00	-9.70	peak	
2		2390.000	18.10	34.23	52.33	54.00	-1.67	AVG	
3	X	2428.200	75.32	34.45	109.77	74.00	35.77	peak	No Limit
4	*	2430.400	62.59	34.46	97.05	54.00	43.05	AVG	No Limit

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

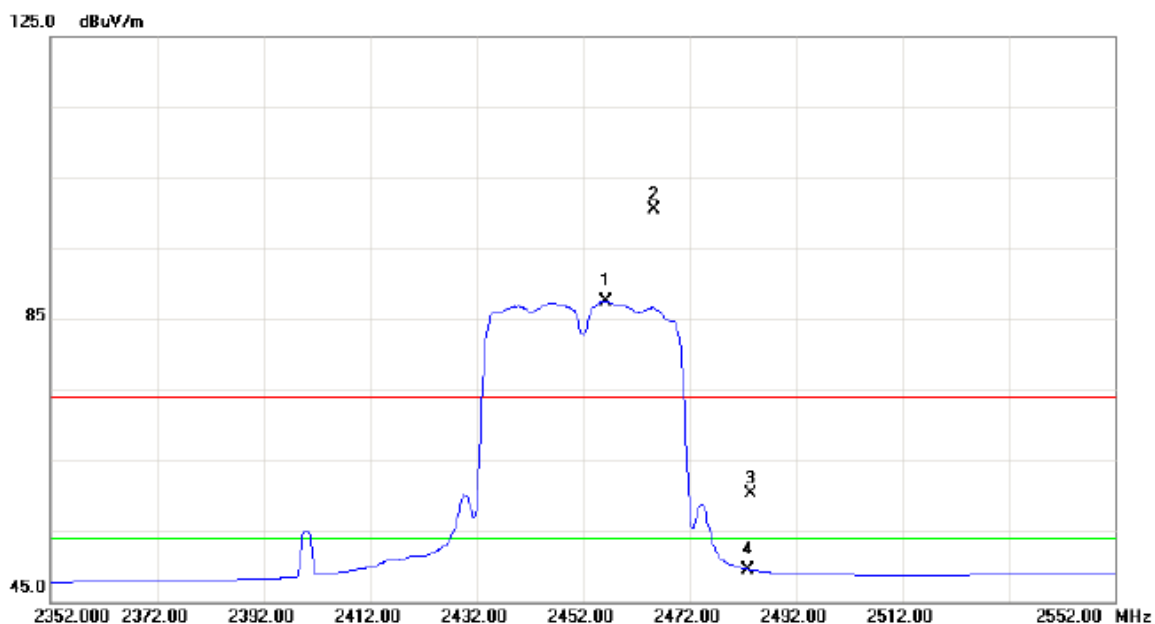
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.5000	25.77	3.03	28.80	54.00	-25.20	AVG	
2	4875.5000	37.71	3.03	40.74	74.00	-33.26	Peak	

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

Vertical

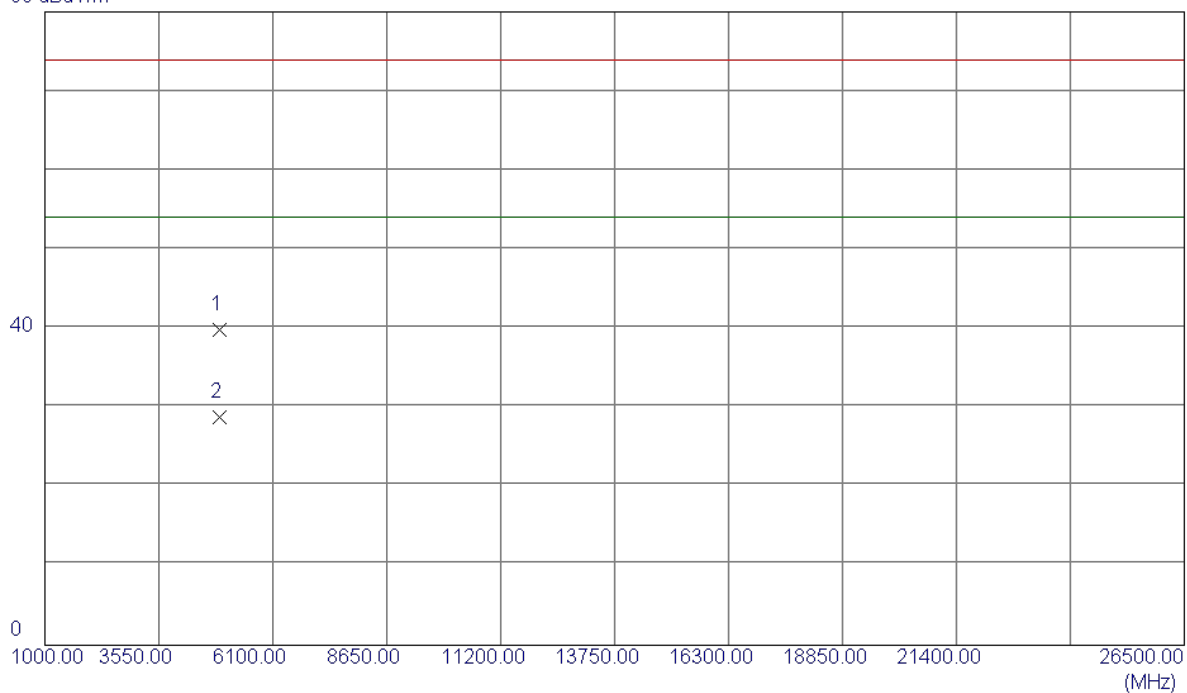


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.400	52.94	34.62	87.56	54.00	33.56	AVG	No Limit
2	X	2465.400	65.77	34.67	100.44	74.00	26.44	peak	No Limit
3		2483.500	25.61	34.78	60.39	74.00	-13.61	peak	
4		2483.500	14.76	34.78	49.54	54.00	-4.46	AVG	

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

Vertical

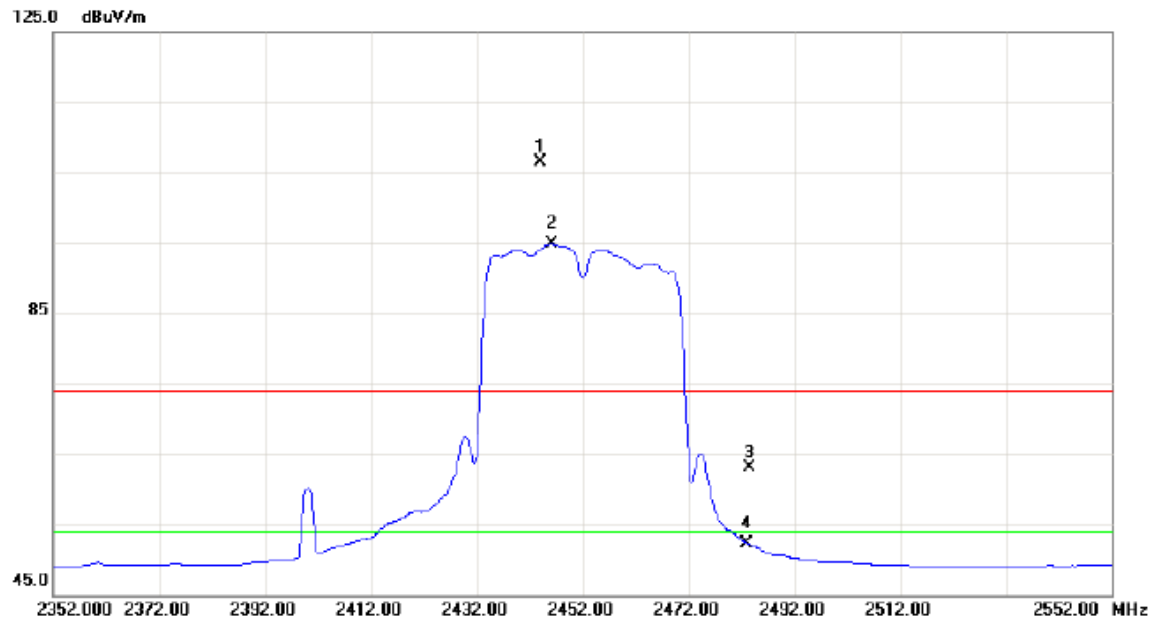
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4904.5000	36.80	3.04	39.84	74.00	-34.16	Peak	
2	4904.5000	25.75	3.04	28.79	54.00	-25.21	AVG	

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

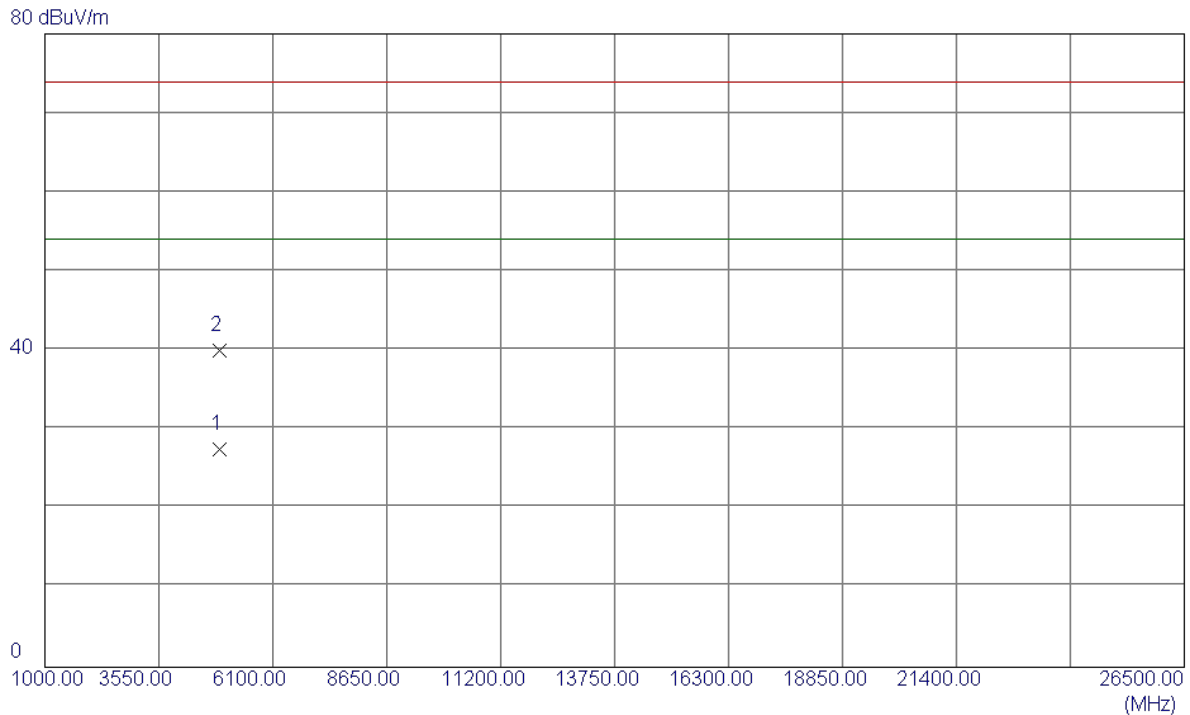
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2444.200	72.03	34.55	106.58	74.00	32.58	peak	No Limit
2	*	2446.200	60.28	34.56	94.84	54.00	40.84	AVG	No Limit
3		2483.500	28.24	34.78	63.02	74.00	-10.98	peak	
4		2483.500	17.43	34.78	52.21	54.00	-1.79	AVG	

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

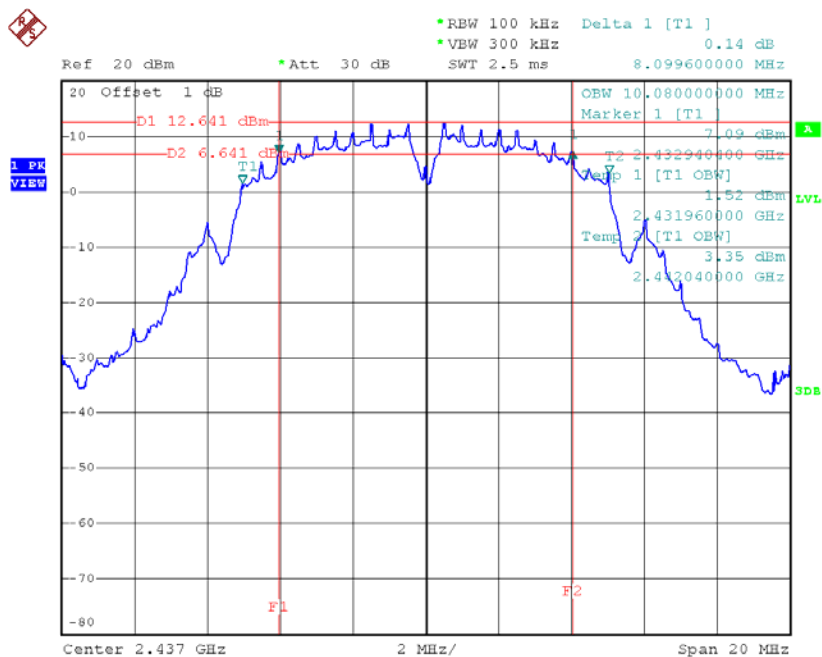
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4904.0000	24.43	3.04	27.47	54.00	-26.53	AVG	
2	4906.0000	37.03	3.04	40.07	74.00	-33.93	Peak	

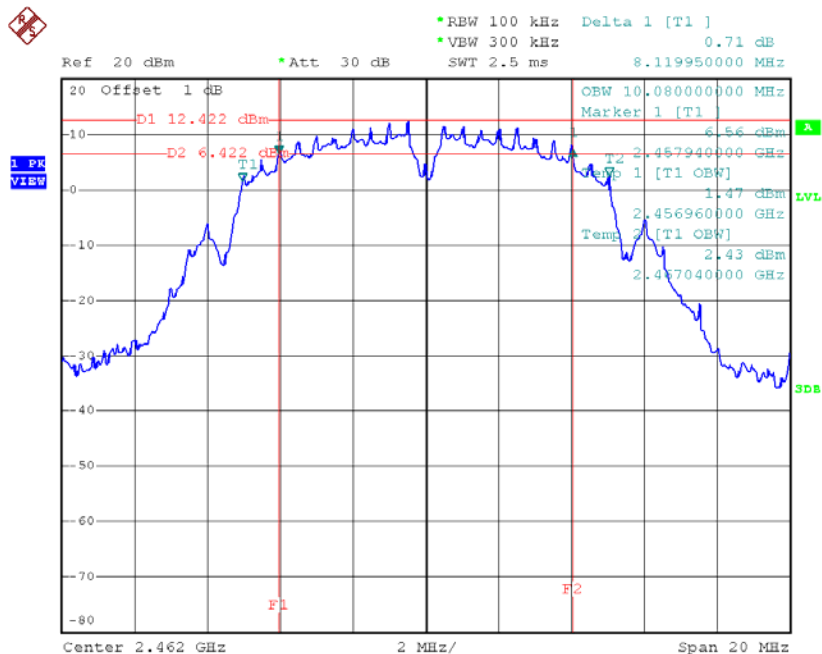
ATTACHMENT E - BANDWIDTH

TX CH06



Date: 28.OCT.2015 23:00:01

TX CH11

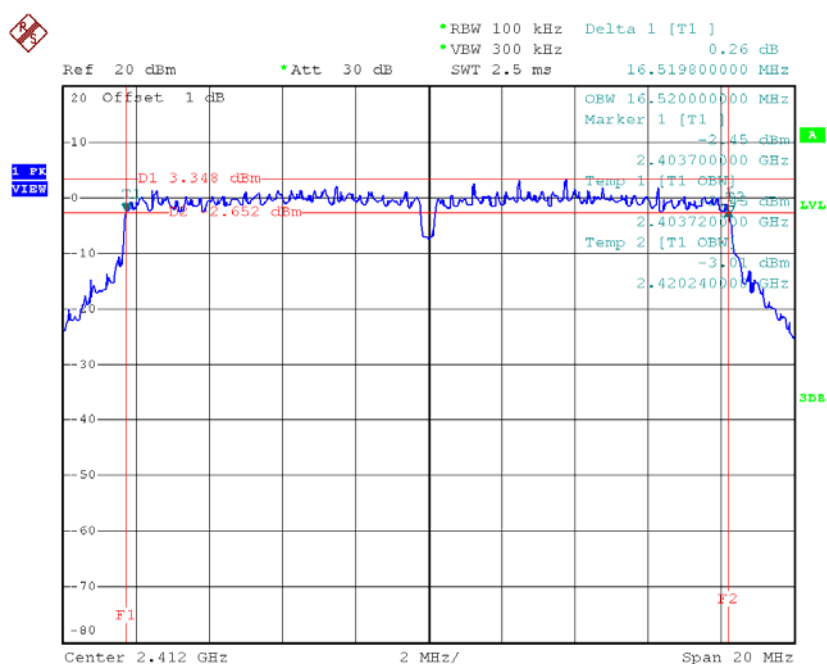


Date: 28.OCT.2015 23:01:12

Test Mode: TX G Mode_CH01/06/11

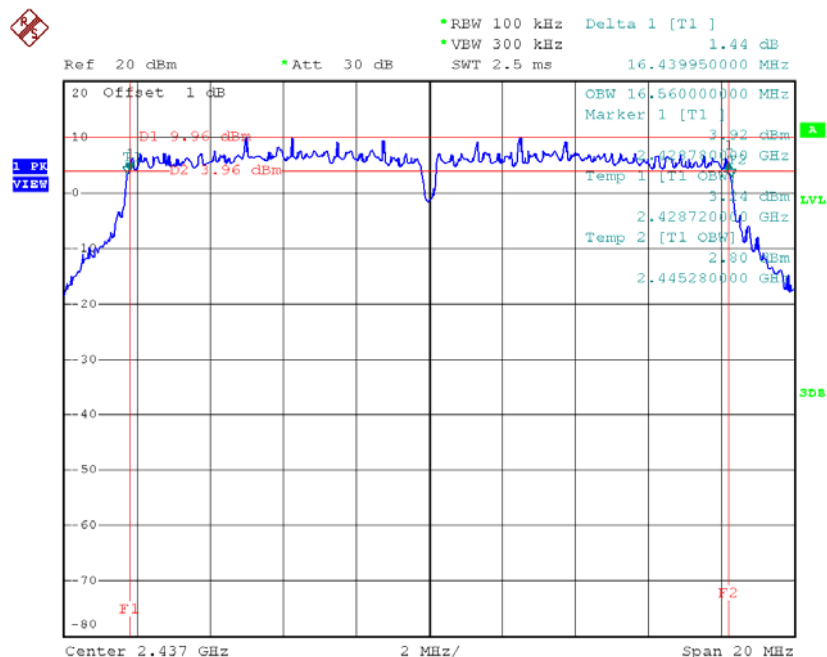
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.52	16.52	500	Complies
2437	16.44	16.56	500	Complies
2462	16.45	16.56	500	Complies

TX CH01



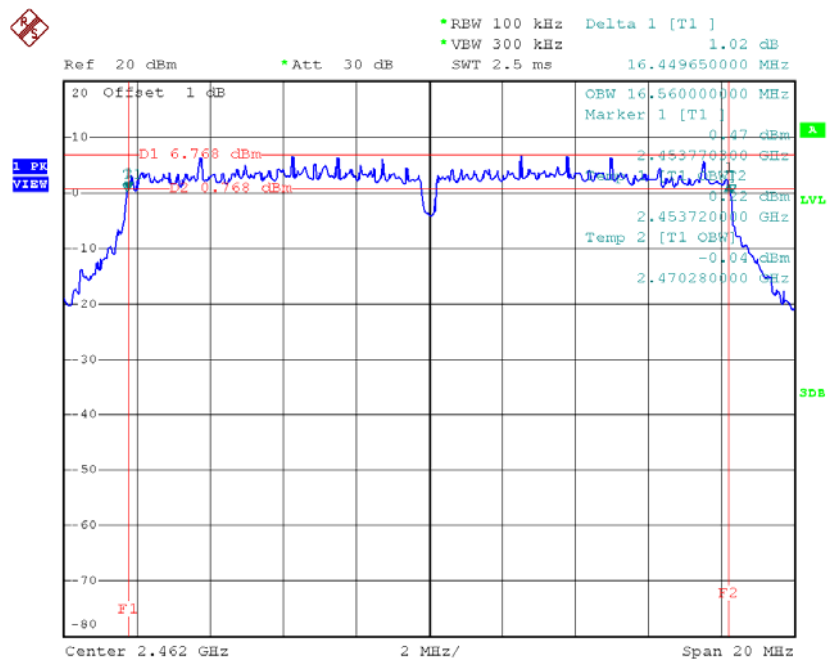
Date: 28.OCT.2015 23:02:18

TX CH06



Date: 28.OCT.2015 23:03:28

TX CH11

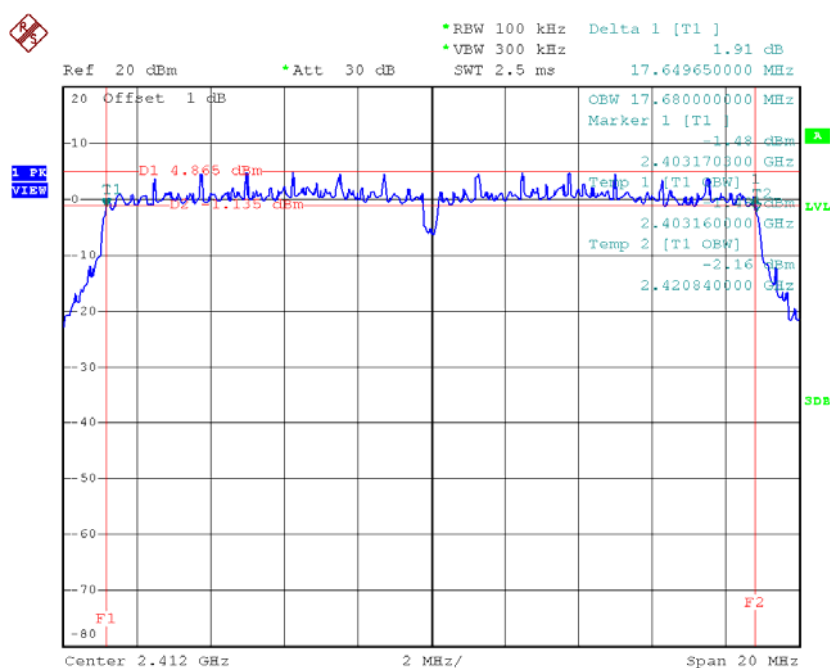


Date: 28.OCT.2015 23:04:32

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

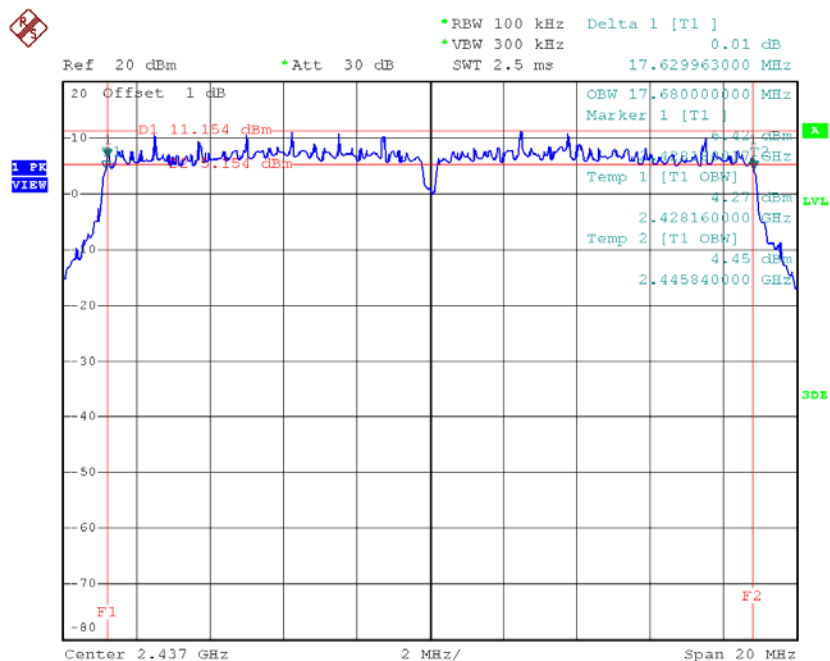
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.65	17.68	500	Complies
2437	17.63	17.68	500	Complies
2462	17.69	17.68	500	Complies

TX CH01



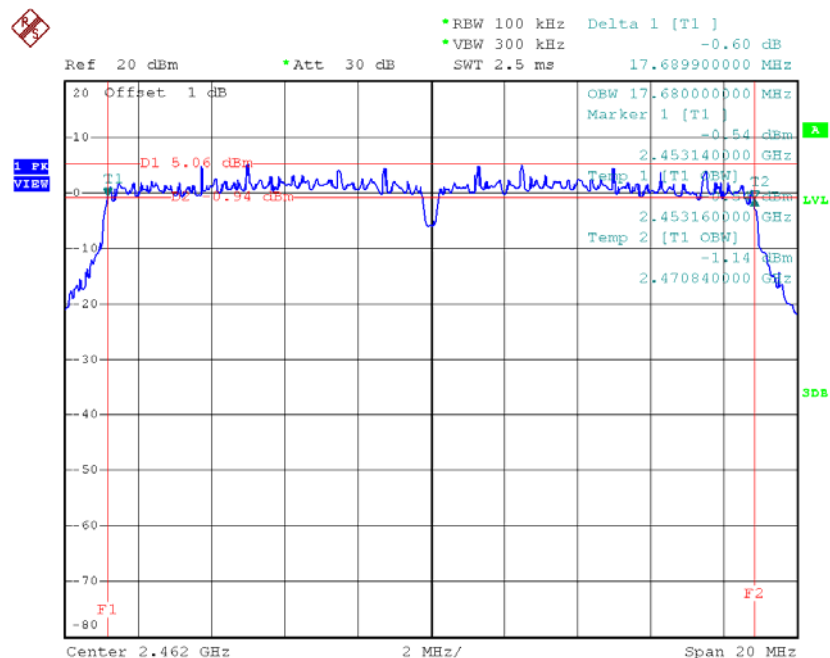
Date: 28.OCT.2015 23:15:21

TX CH06



Date: 28.OCT.2015 23:16:37

TX CH11

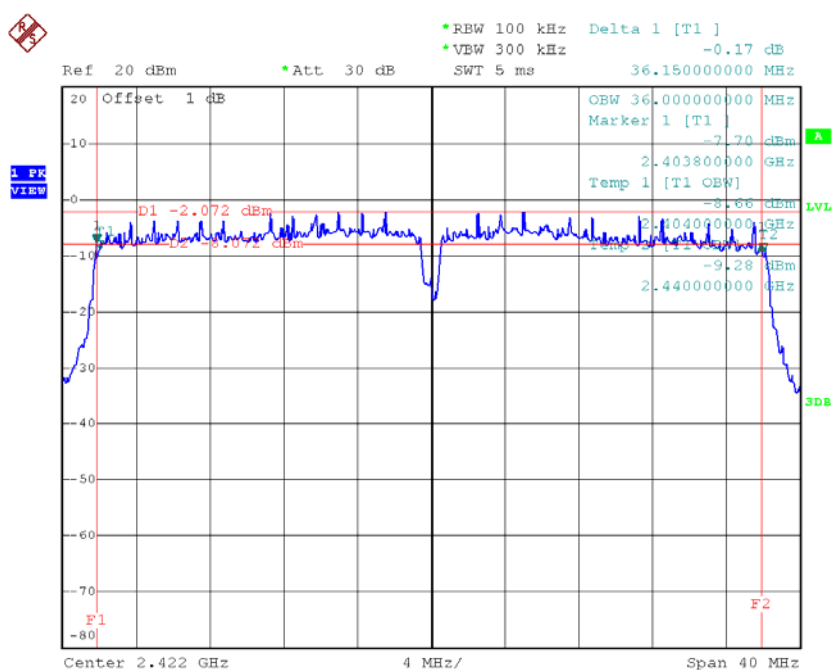


Date: 28.OCT.2015 23:17:43

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

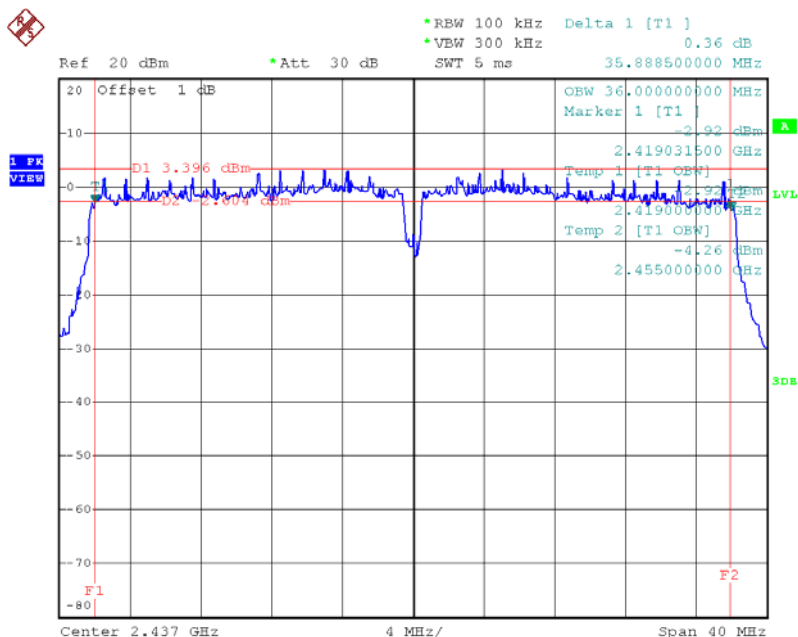
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.15	36.00	500	Complies
2437	35.89	36.00	500	Complies
2452	35.84	36.08	500	Complies

TX CH03



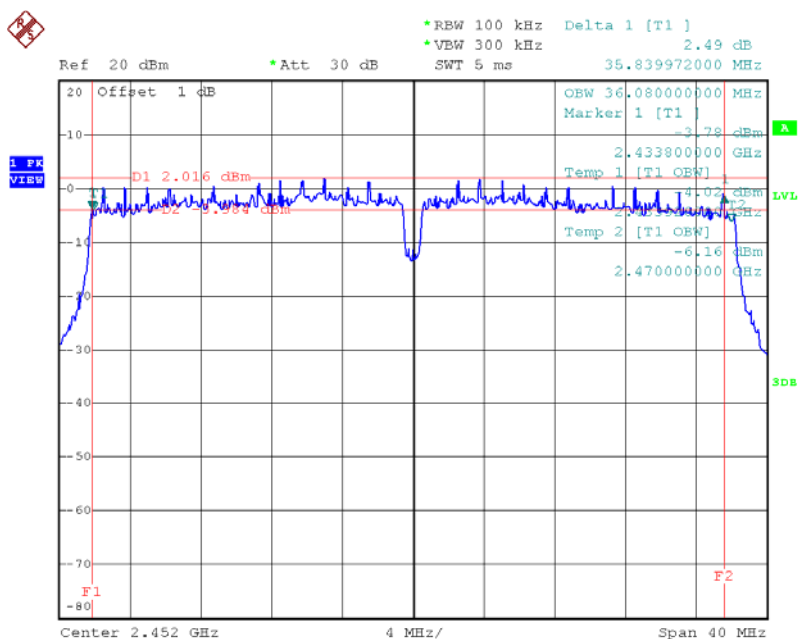
Date: 28.OCT.2015 23:19:06

TX CH06



Date: 28.OCT.2015 23:20:52

TX CH09



Date: 28.OCT.2015 23:22:00

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	24.14	0.26	30.00	1.00	Complies
2437	24.18	0.26	30.00	1.00	Complies
2462	23.95	0.25	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.03	0.25	30.00	1.00	Complies
2437	29.95	0.99	30.00	1.00	Complies
2462	26.79	0.48	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	23.58	0.23	30.00	1.00	Complies
2437	26.82	0.48	30.00	1.00	Complies
2462	24.14	0.26	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	22.28	0.17	30.00	1.00	Complies
2437	26.17	0.41	30.00	1.00	Complies
2462	22.96	0.20	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	25.99	0.40	30.00	1.00	Complies
2437	29.52	0.89	30.00	1.00	Complies
2462	26.60	0.46	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	20.59	0.11	30.00	1.00	Complies
2437	25.66	0.37	30.00	1.00	Complies
2452	24.15	0.26	30.00	1.00	Complies

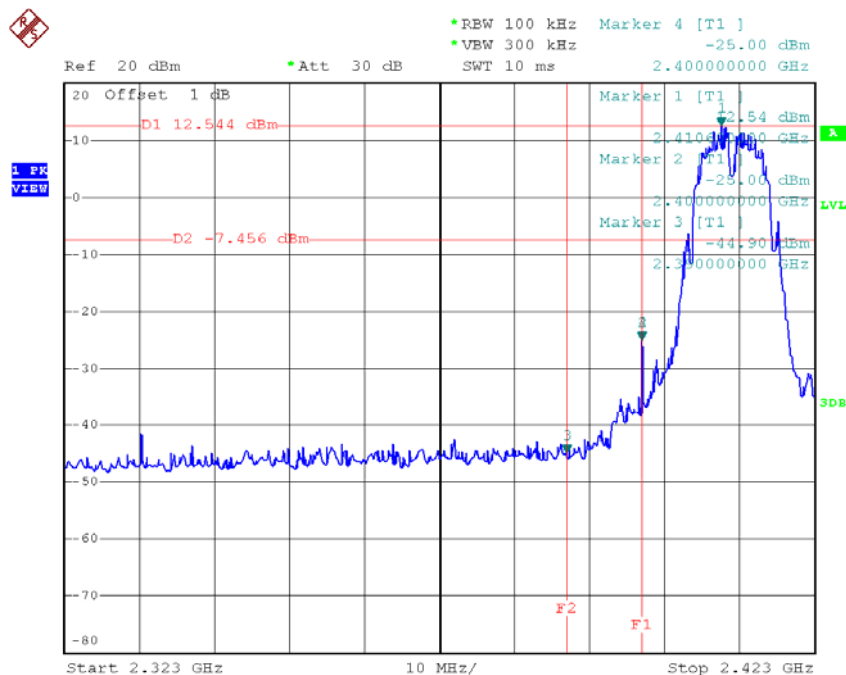
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	20.52	0.11	30.00	1.00	Complies
2437	25.32	0.34	30.00	1.00	Complies
2452	23.39	0.22	30.00	1.00	Complies

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	23.57	0.23	30.00	1.00	Complies
2437	28.50	0.71	30.00	1.00	Complies
2452	26.80	0.48	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

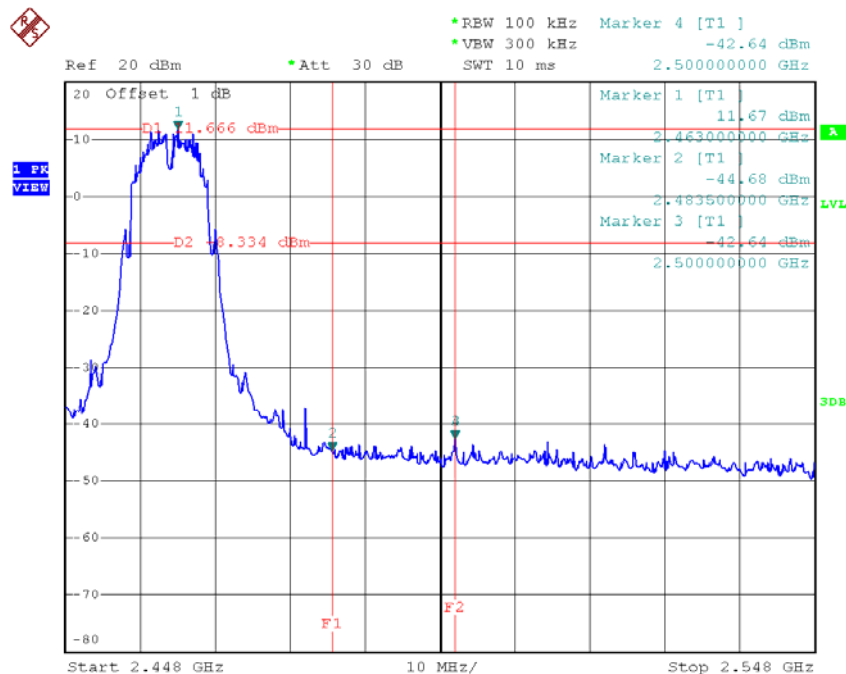
Test Mode :	TX B Mode
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TX B mode CH01



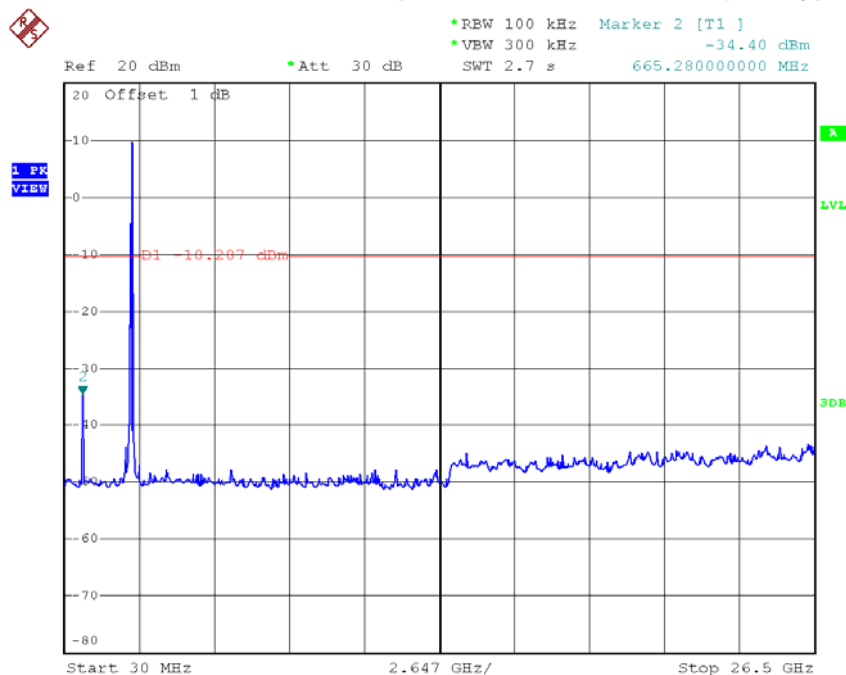
Date: 28.OCT.2015 22:58:54

TX B mode CH11



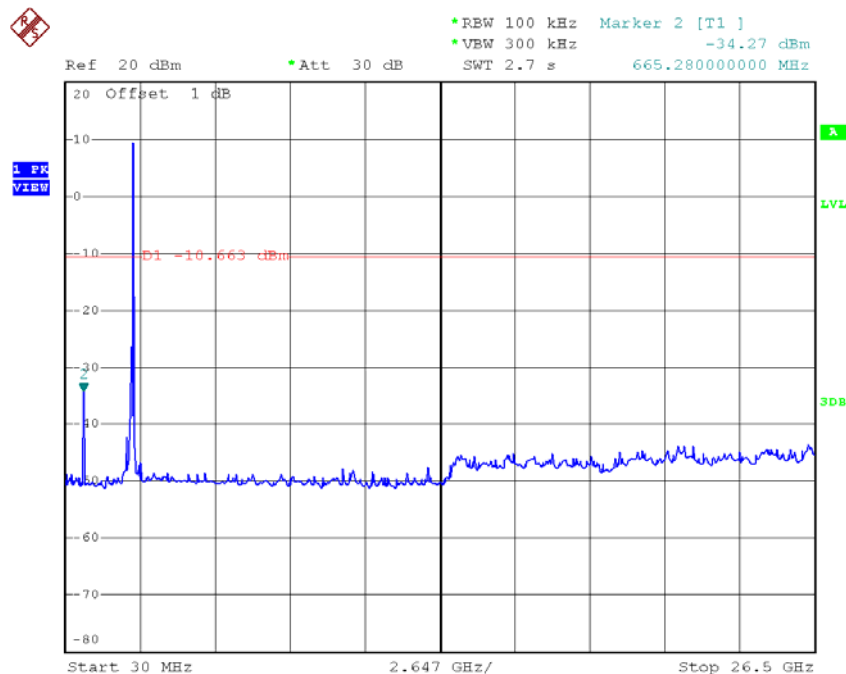
Date: 28.OCT.2015 23:01:33

TX B mode CH01 (10 Harmonic of the frequency)



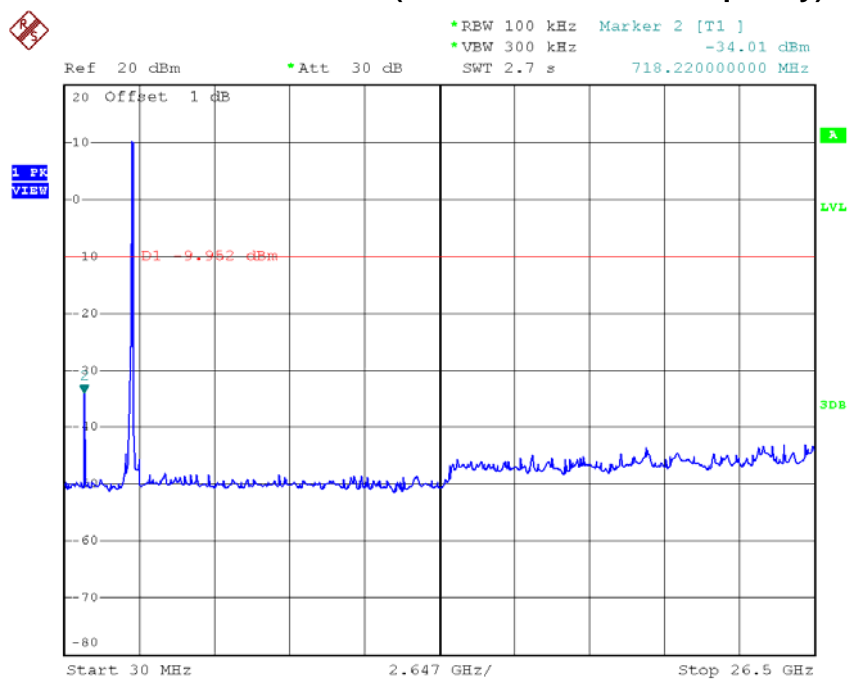
Date: 28.OCT.2015 22:58:47

TX B mode CH06 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:00:15

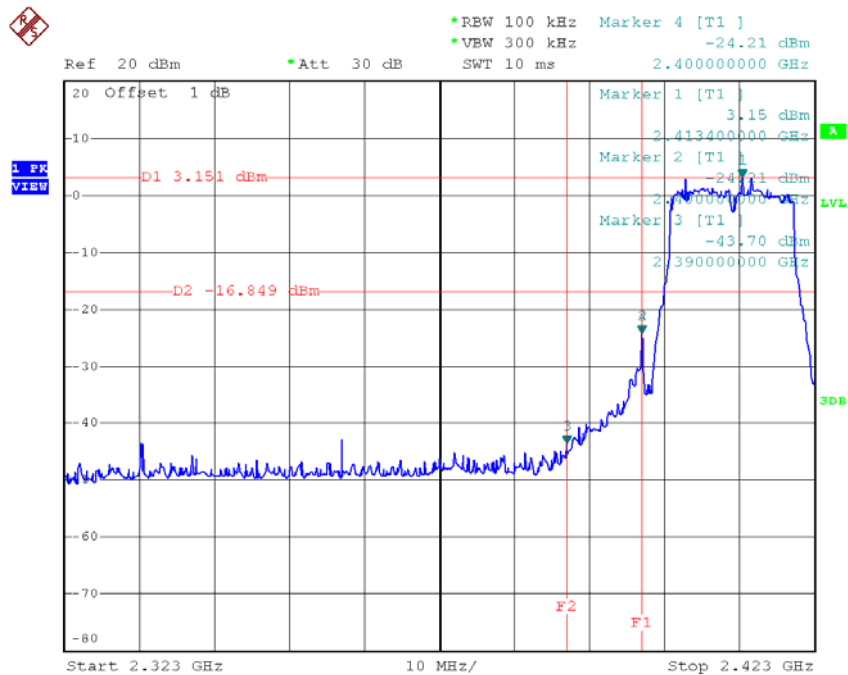
TX B mode CH11 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:01:25

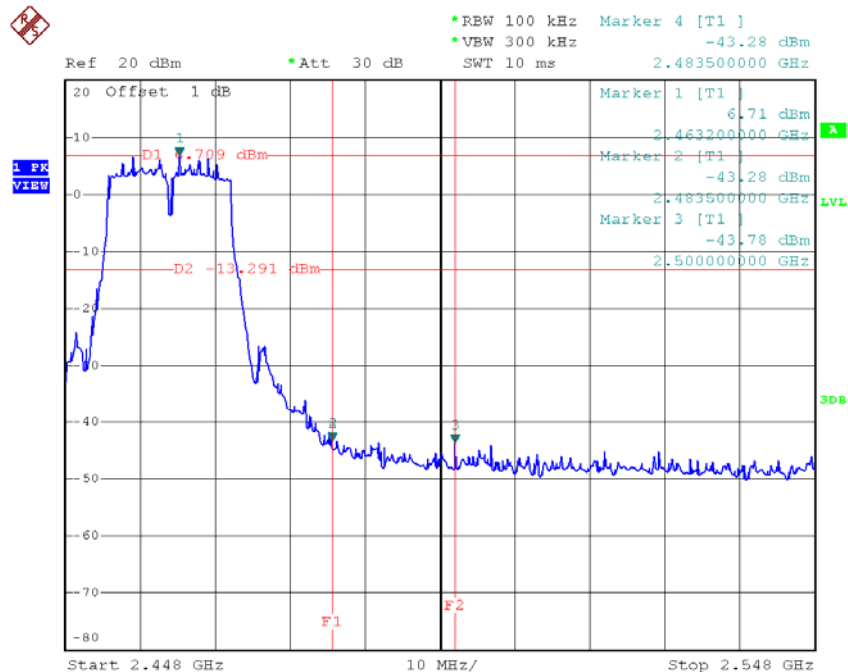
Test Mode :	TX G Mode
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TX G mode CH01



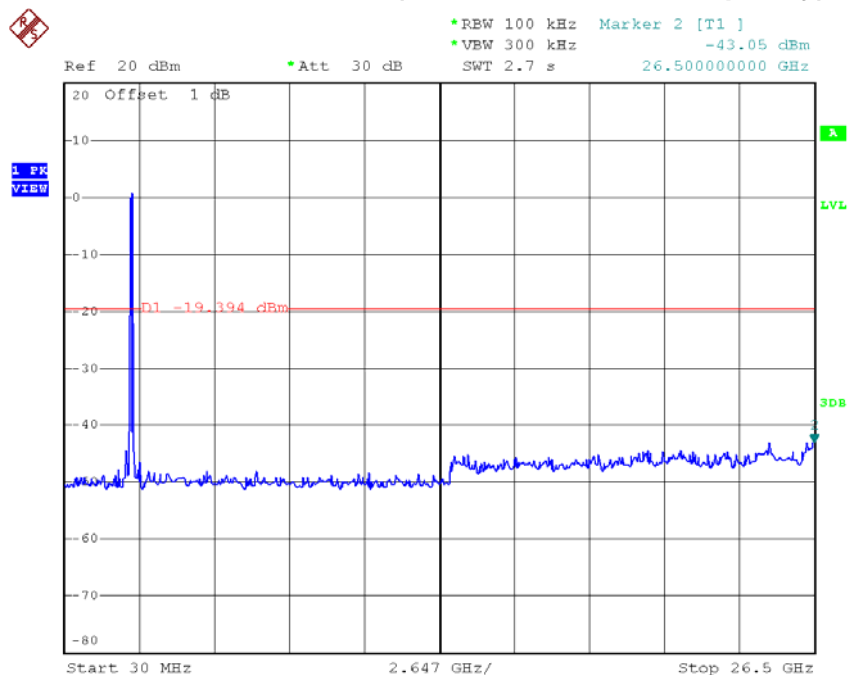
Date: 28.OCT.2015 23:02:40

TX G mode CH11



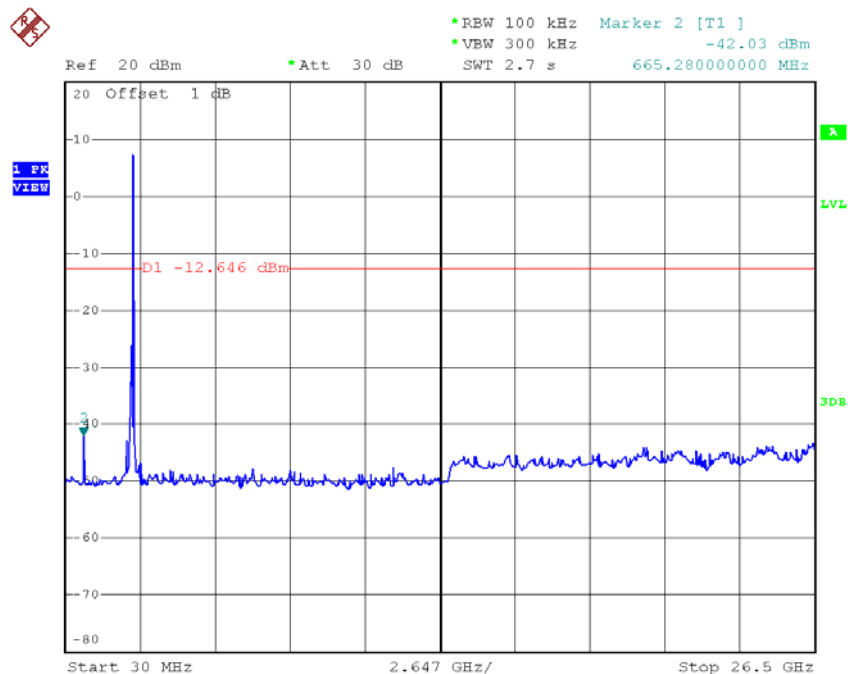
Date: 28.OCT.2015 23:04:54

TX G mode CH01 (10 Harmonic of the frequency)



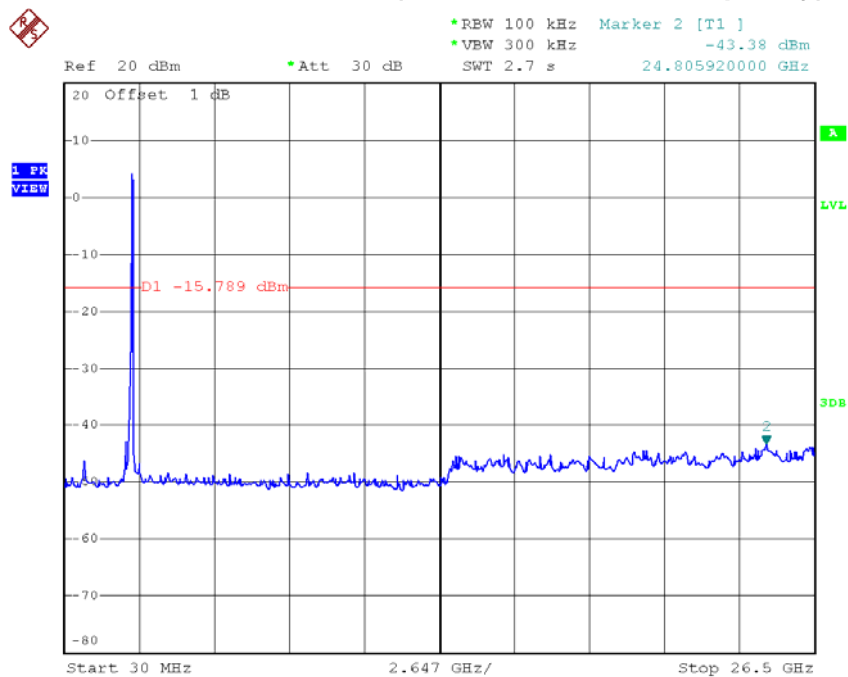
Date: 28.OCT.2015 23:02:32

TX G mode CH06 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:03:42

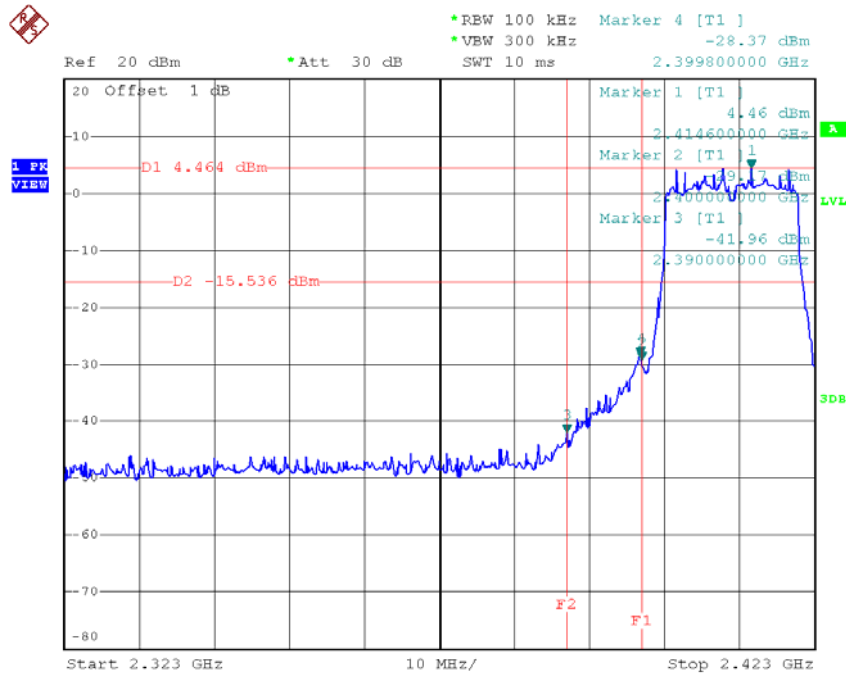
TX G mode CH11 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:04:46

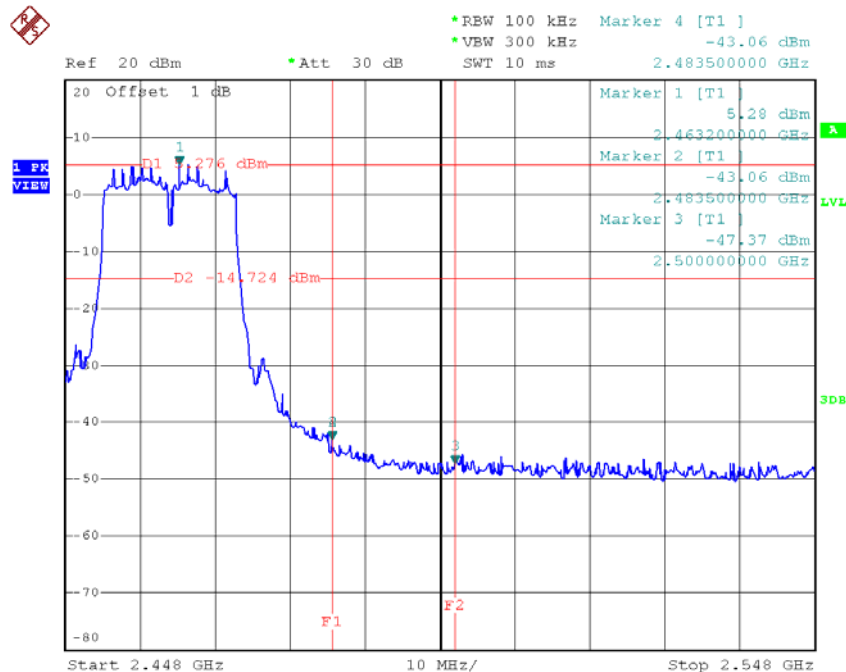
Test Mode :	TX N-20M Mode_ANT 1
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TX HT20 mode CH01



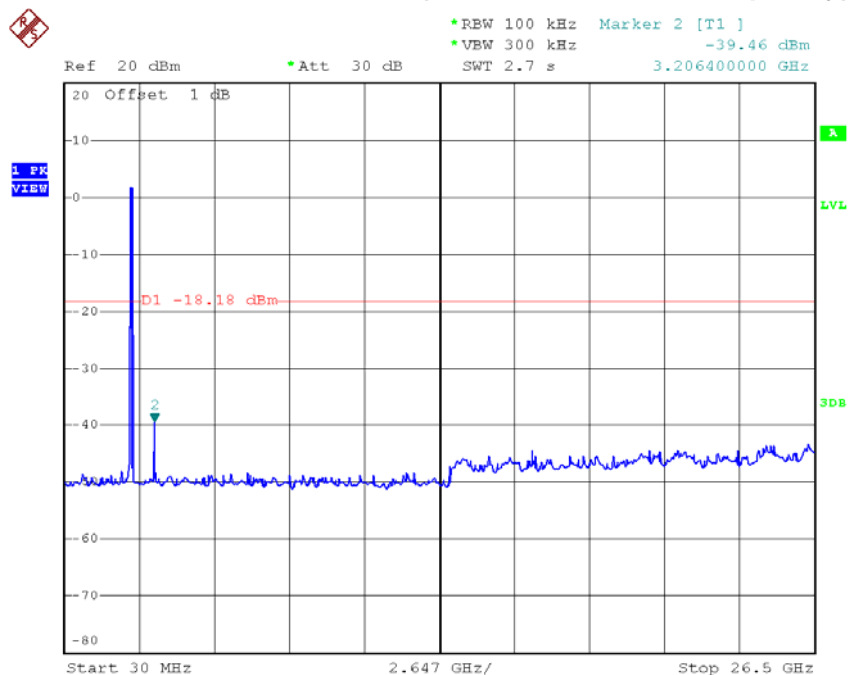
Date: 28.OCT.2015 23:15:43

TX HT20 mode CH11



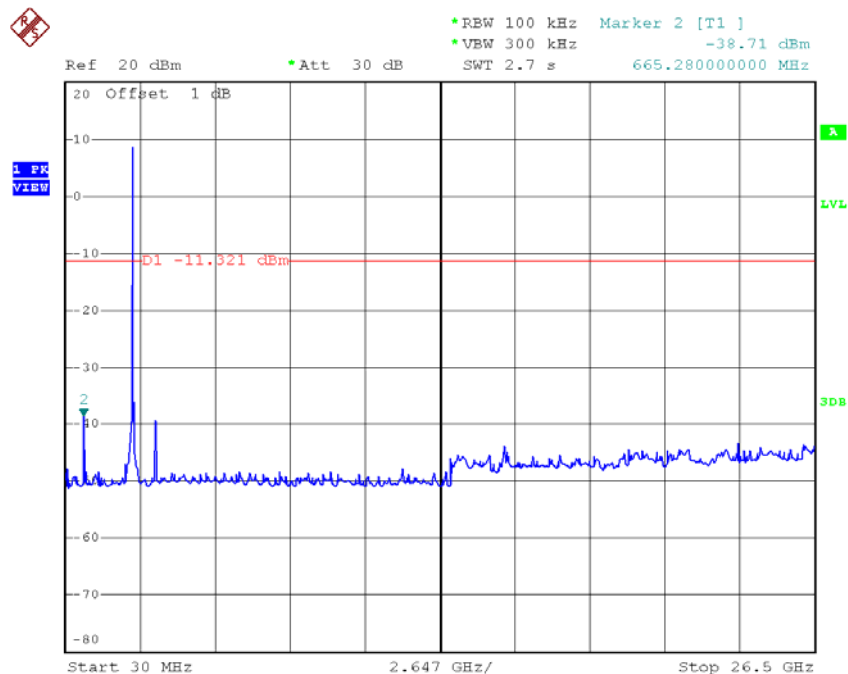
Date: 28.OCT.2015 23:18:05

TX HT20 mode CH01 (10 Harmonic of the frequency)



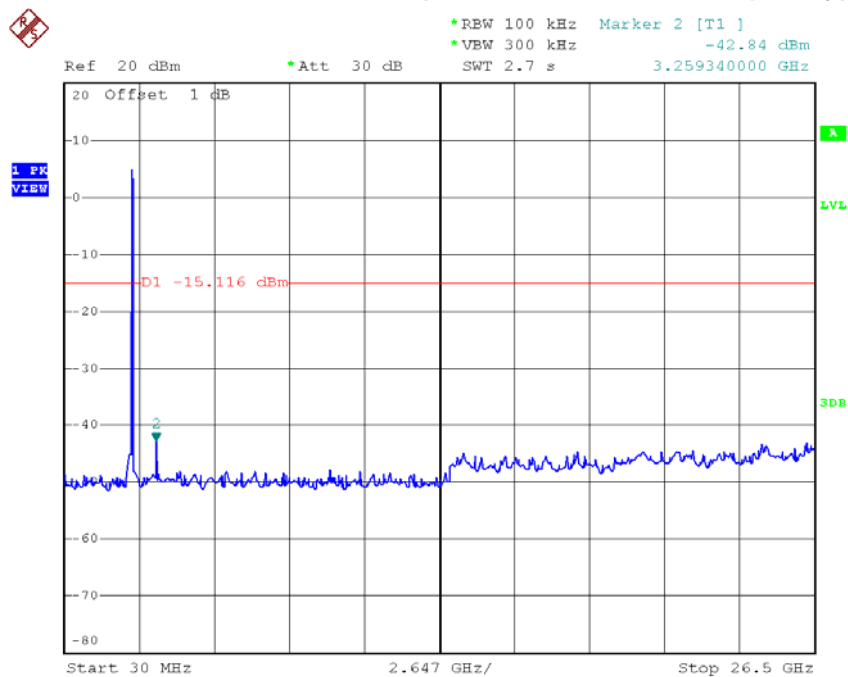
Date: 28.OCT.2015 23:15:36

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:16:51

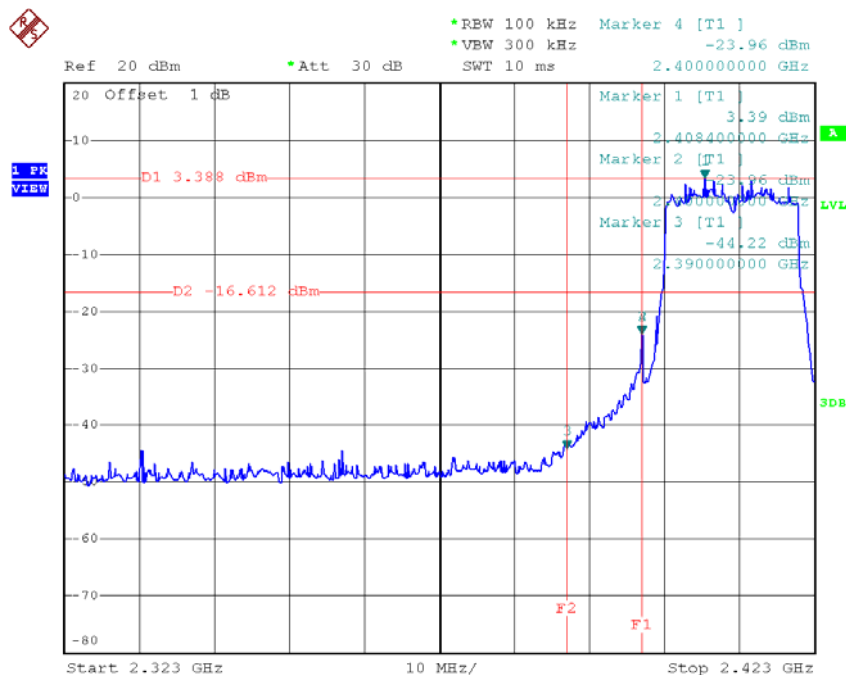
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:17:57

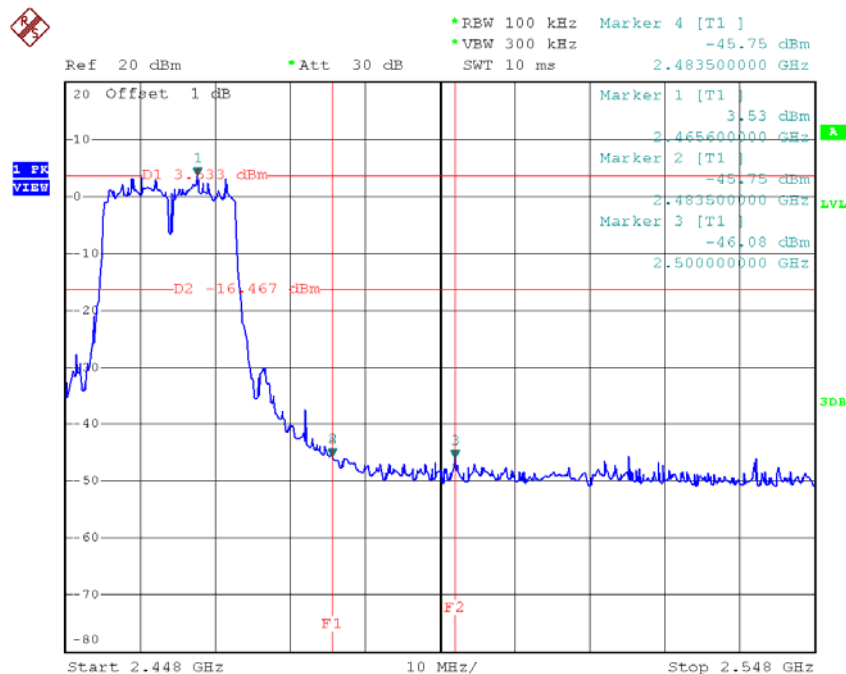
Test Mode :	TX N-20M Mode_ANT 2
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TX HT20 mode CH01



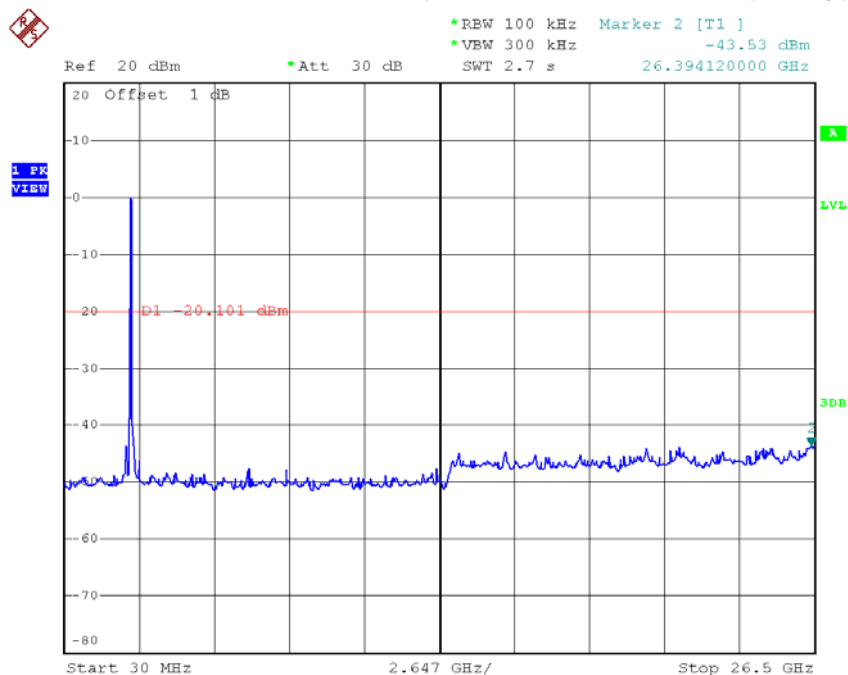
Date: 28.OCT.2015 23:07:02

TX HT20 mode CH11



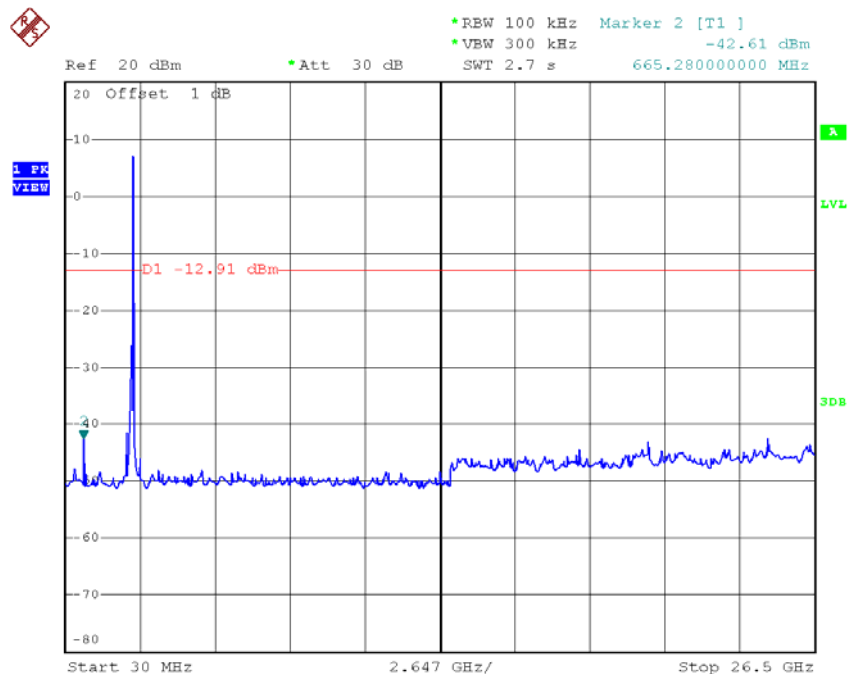
Date: 28.OCT.2015 23:09:45

TX HT20 mode CH01 (10 Harmonic of the frequency)



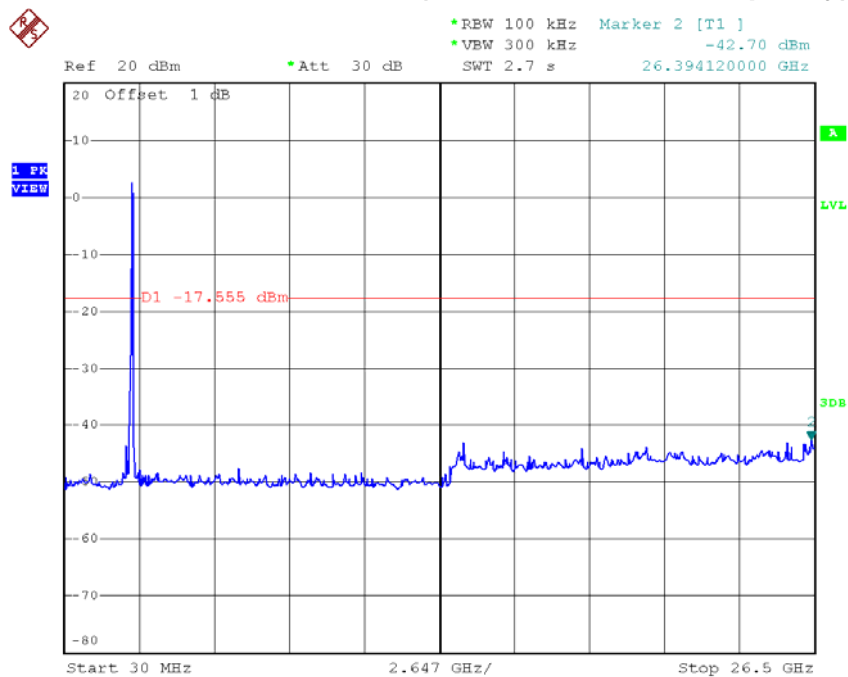
Date: 28.OCT.2015 23:06:54

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:08:40

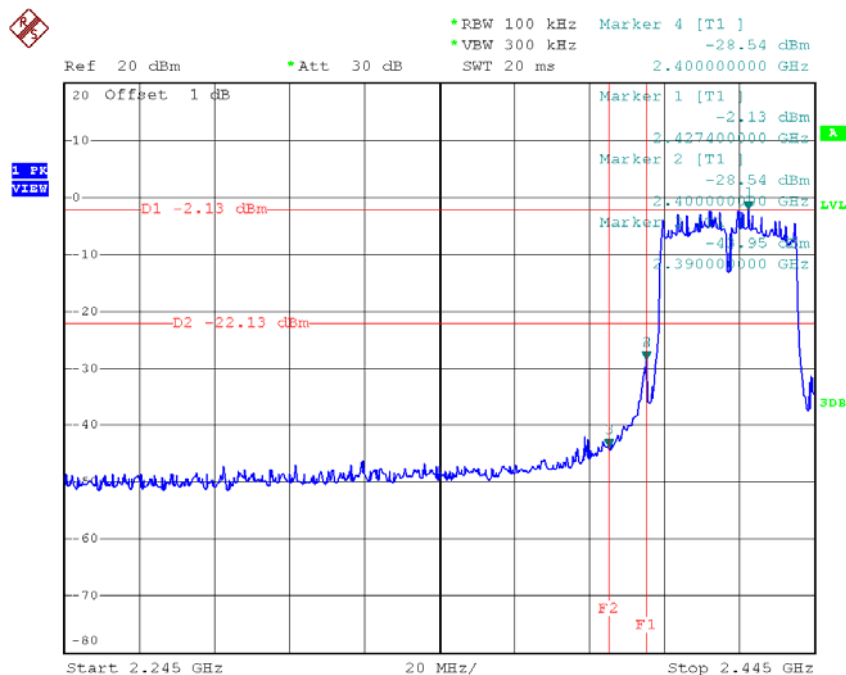
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:09:37

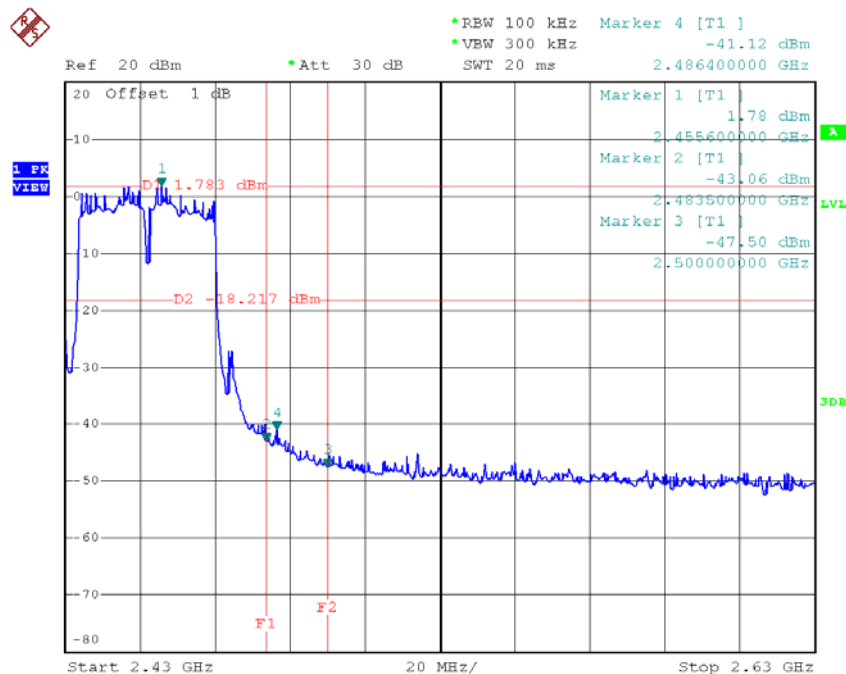
Test Mode :	TX N-40M Mode_ANT 1
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TX HT40 mode CH03



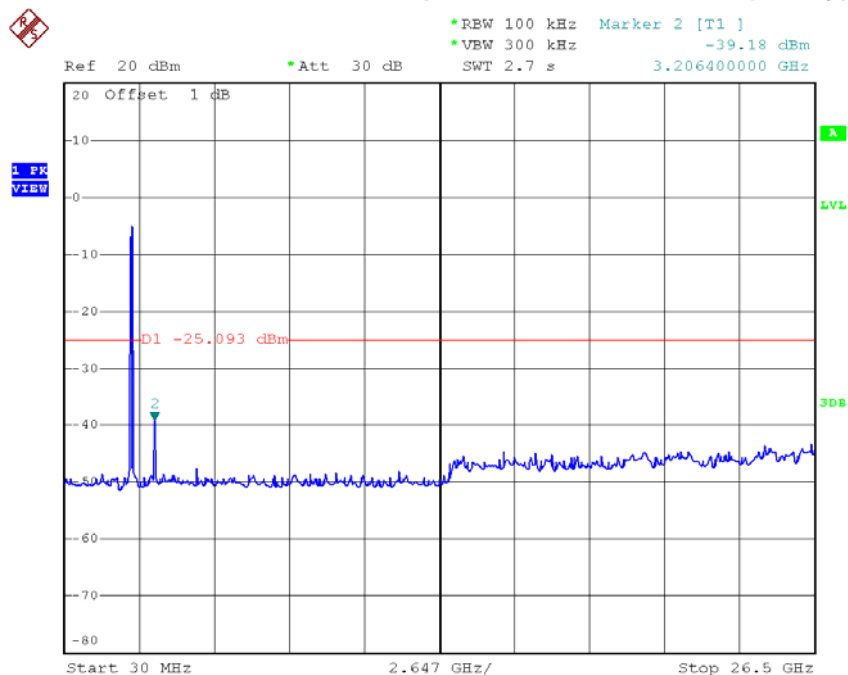
Date: 28.OCT.2015 23:19:27

TX HT40 mode CH09



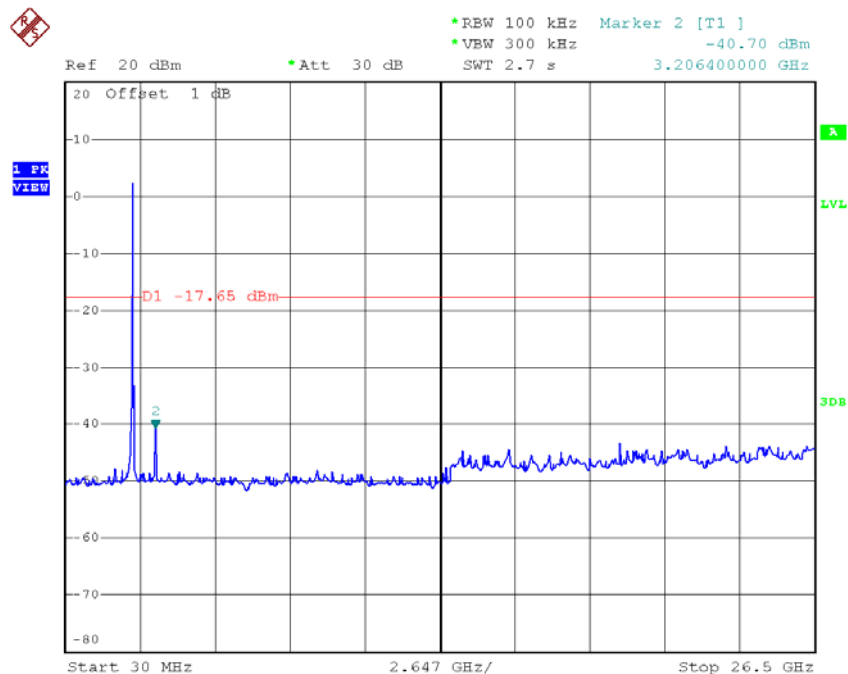
Date: 28.OCT.2015 23:22:21

TX HT40 mode CH03 (10 Harmonic of the frequency)



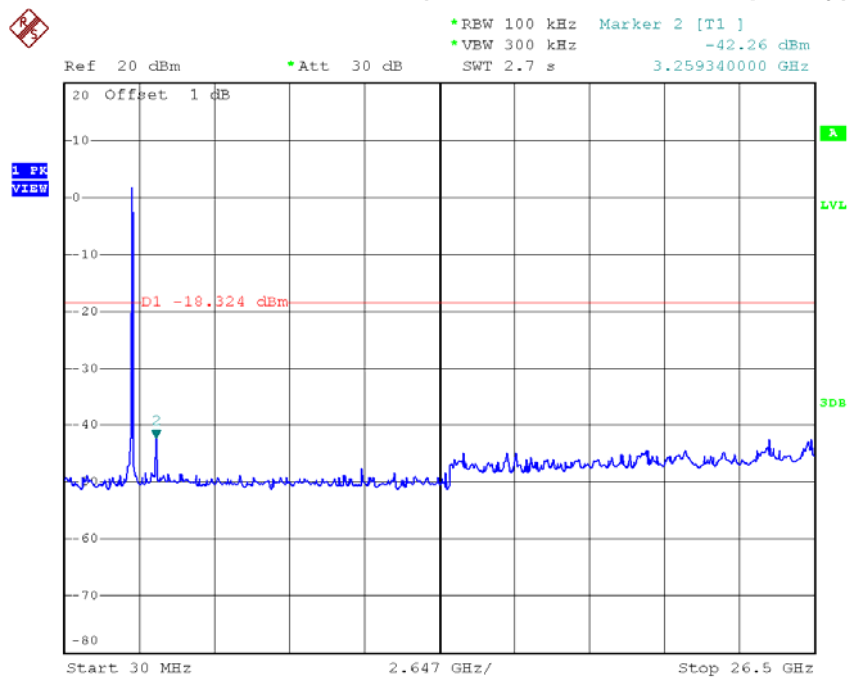
Date: 28.OCT.2015 23:19:19

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:21:06

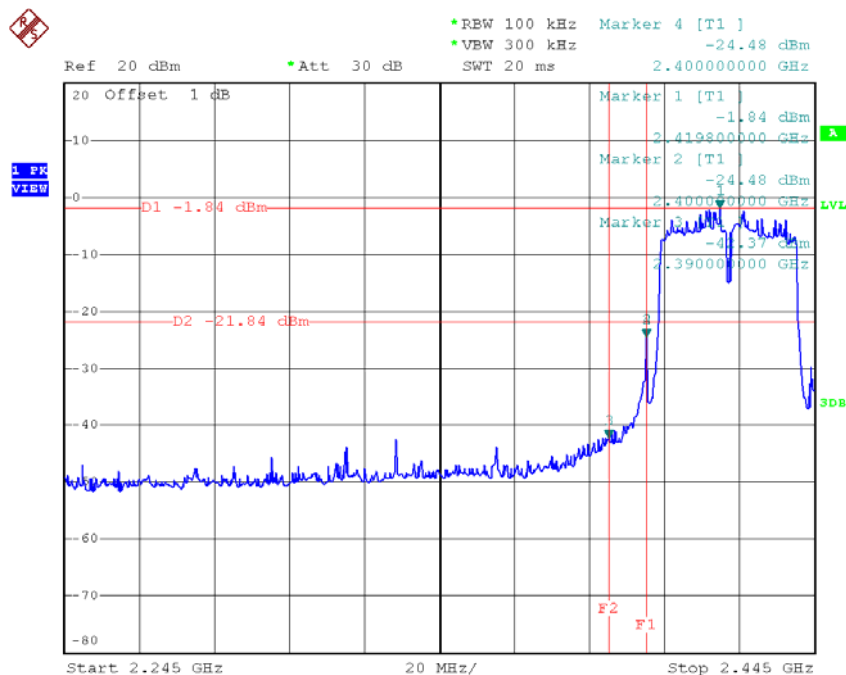
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:22:14

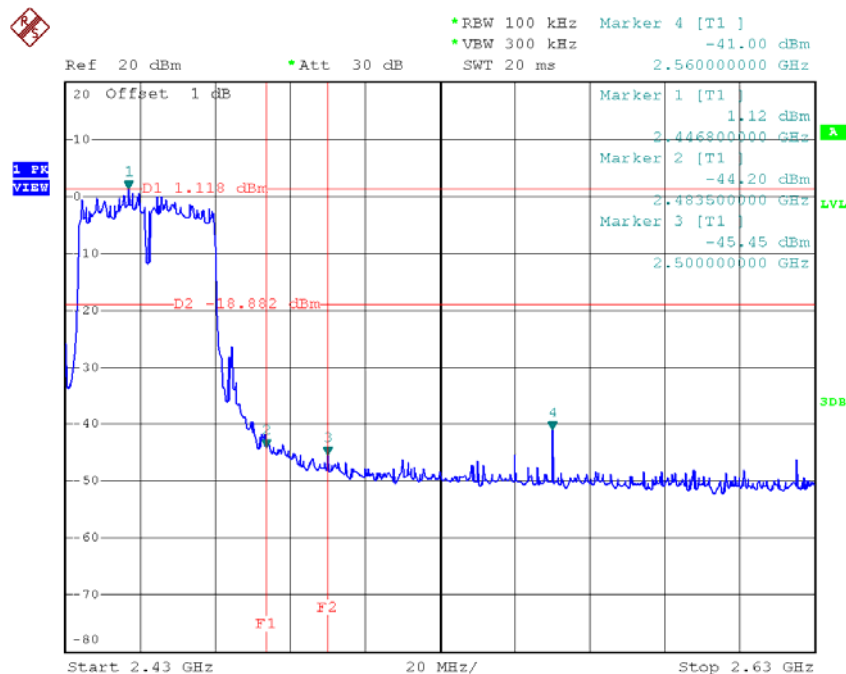
Test Mode :	TX N-40M Mode_ANT 2
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TX HT40 mode CH03



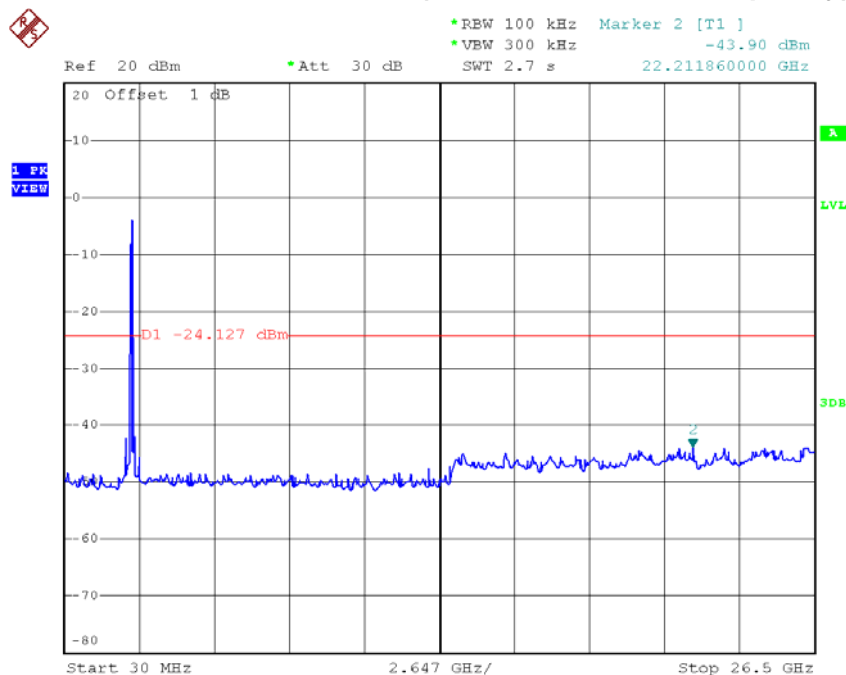
Date: 28.OCT.2015 23:10:56

TX HT40 mode CH09



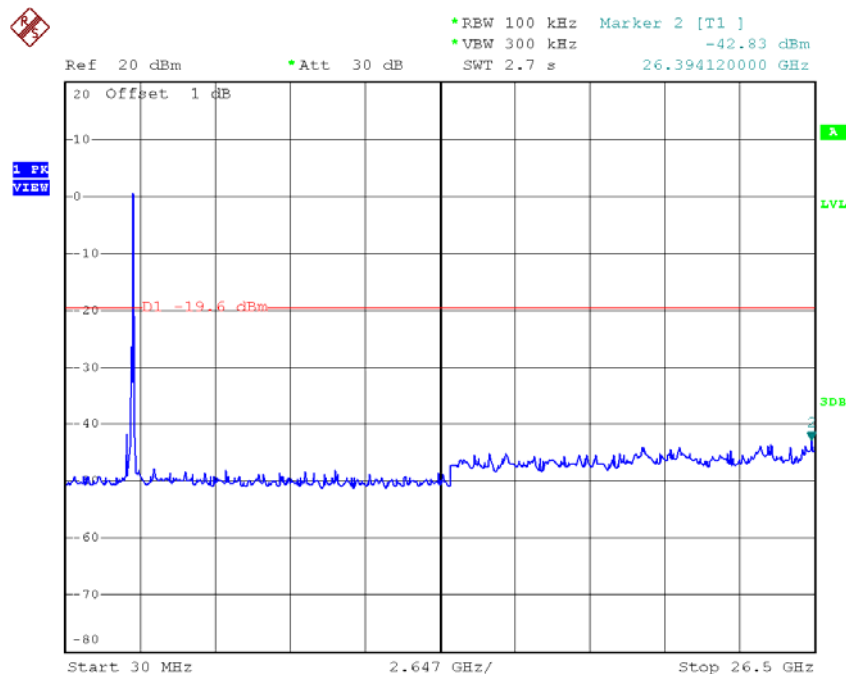
Date: 28.OCT.2015 23:13:13

TX HT40 mode CH03 (10 Harmonic of the frequency)



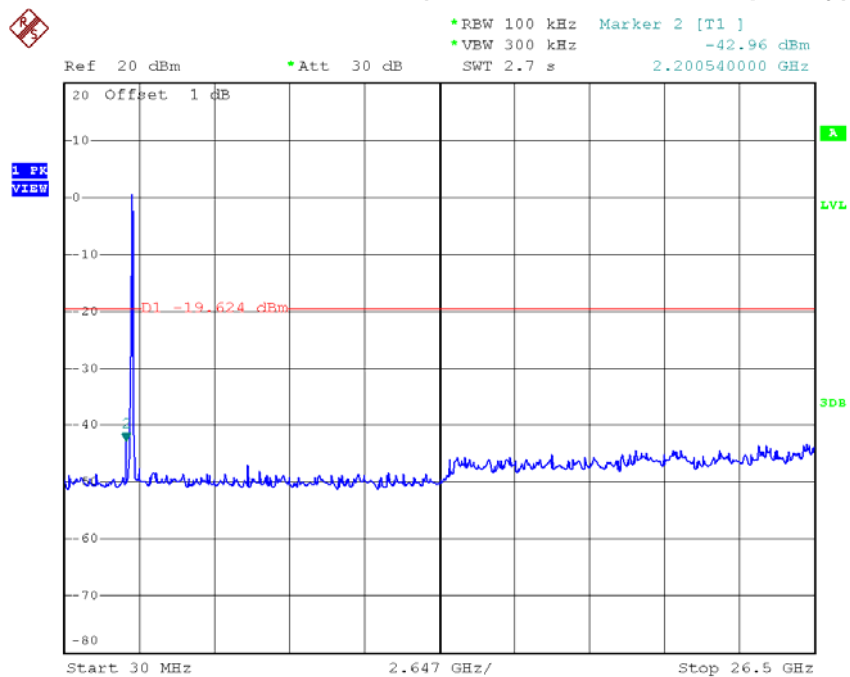
Date: 28.OCT.2015 23:10:48

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:12:02

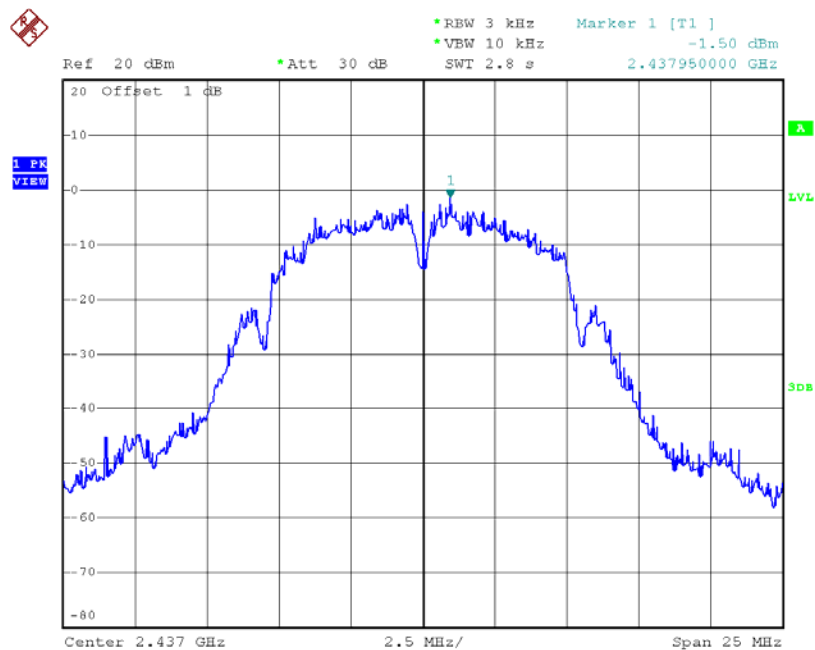
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 28.OCT.2015 23:13:05

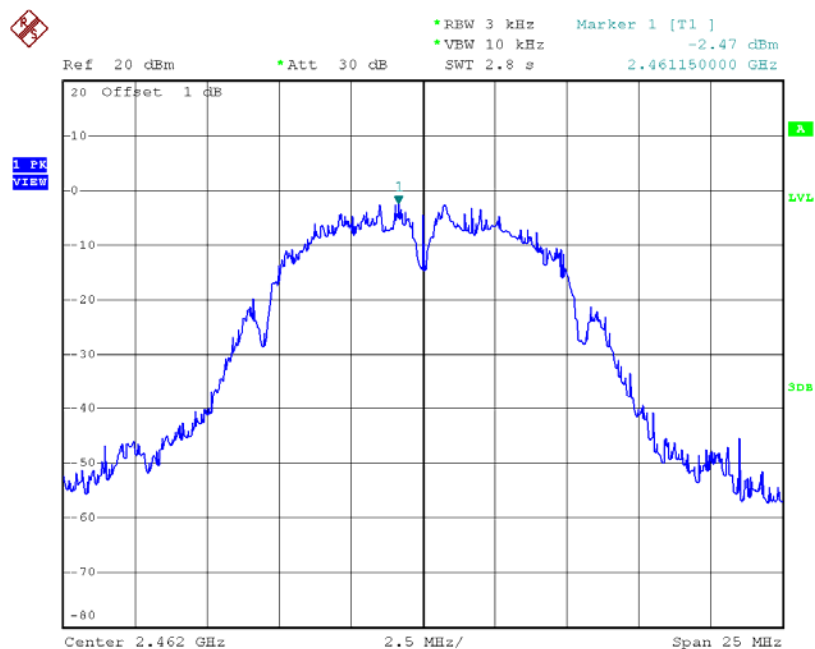
ATTACHMENT H - POWER SPECTRAL DENSITY

TX CH06



Date: 28.OCT.2015 23:00:24

TX CH11

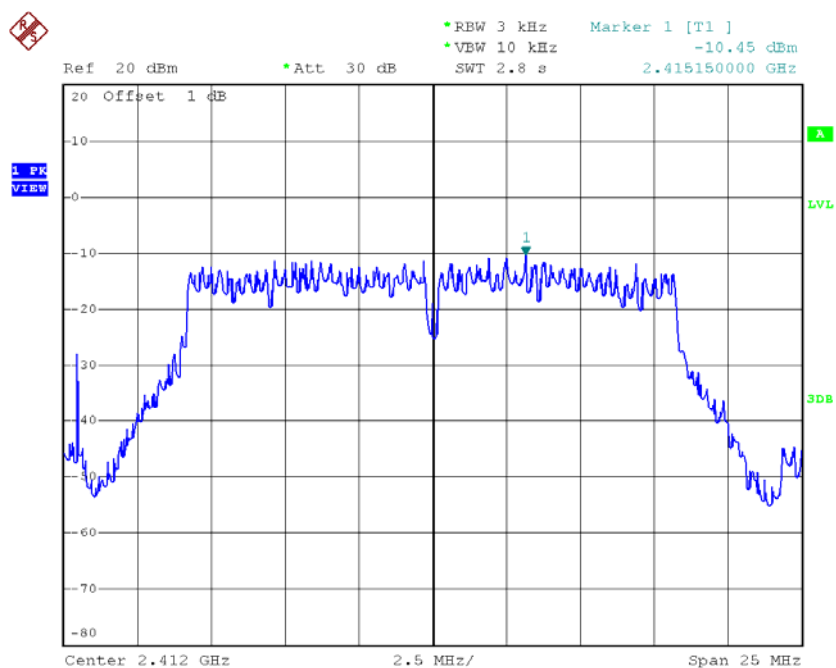


Date: 28.OCT.2015 23:01:42

Test Mode :TX G Mode_CH01/06/11

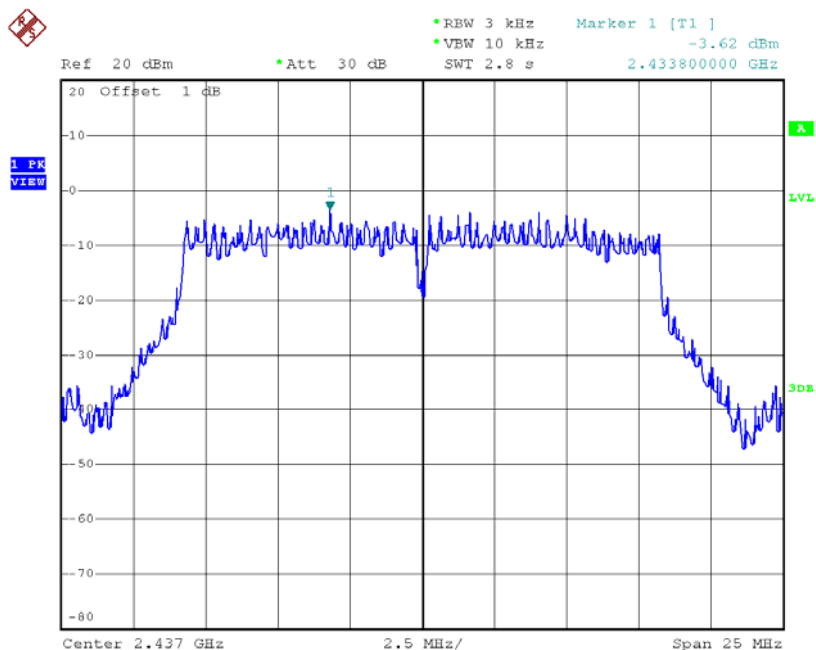
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.45	0.09	8.00	Complies
2437	-3.62	0.43	8.00	Complies
2462	-7.31	0.19	8.00	Complies

TX CH01



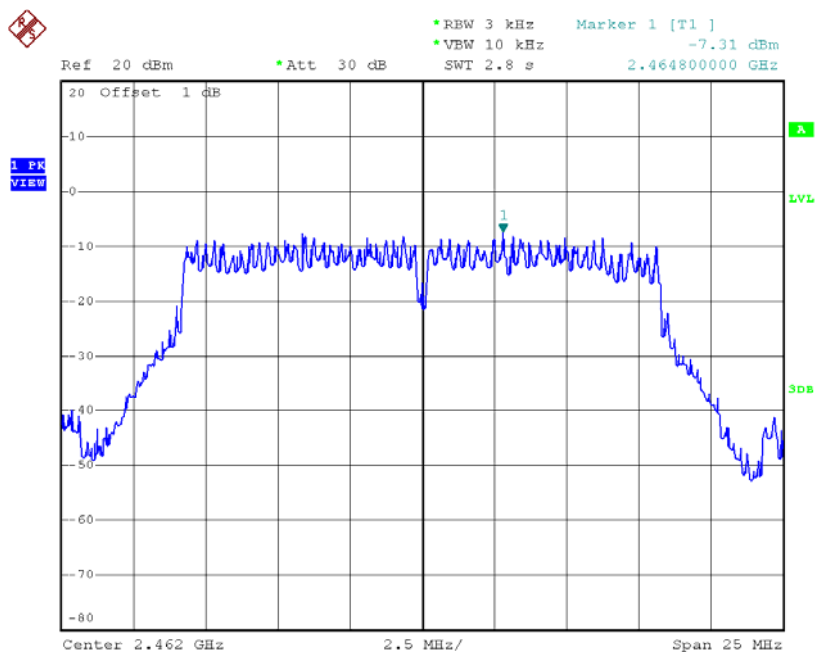
Date: 28.OCT.2015 23:02:49

TX CH06



Date: 28.OCT.2015 23:03:51

TX CH11

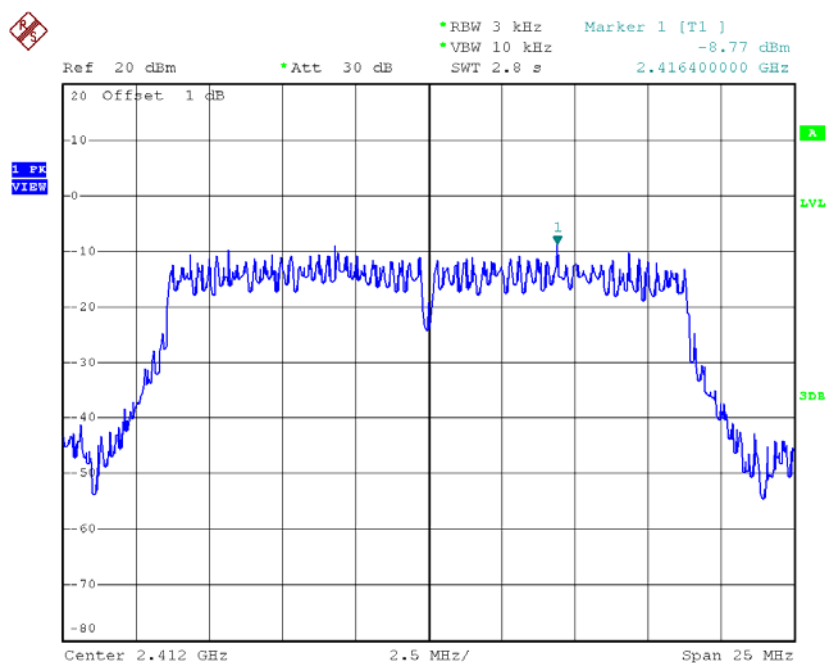


Date: 28.OCT.2015 23:05:03

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

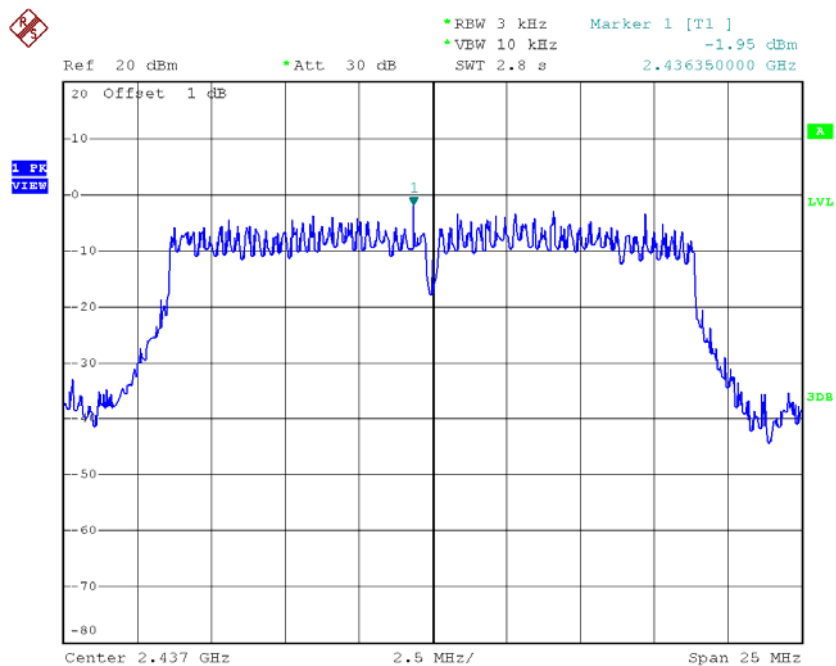
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-8.77	0.13	8.00	Complies
2437	-1.95	0.64	8.00	Complies
2462	-8.77	0.13	8.00	Complies

TX CH01



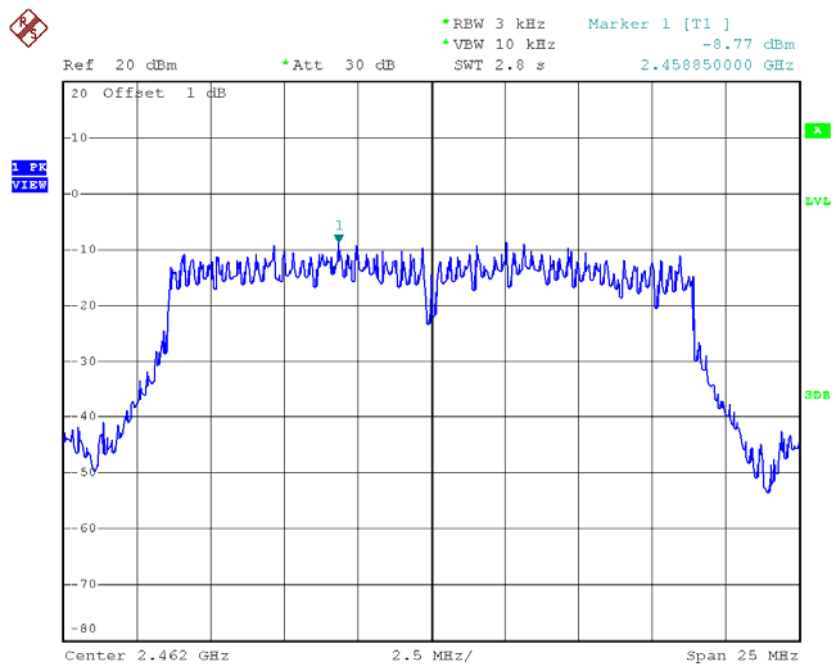
Date: 28.OCT.2015 23:15:52

TX CH06



Date: 28.OCT.2015 23:17:00

TX CH11

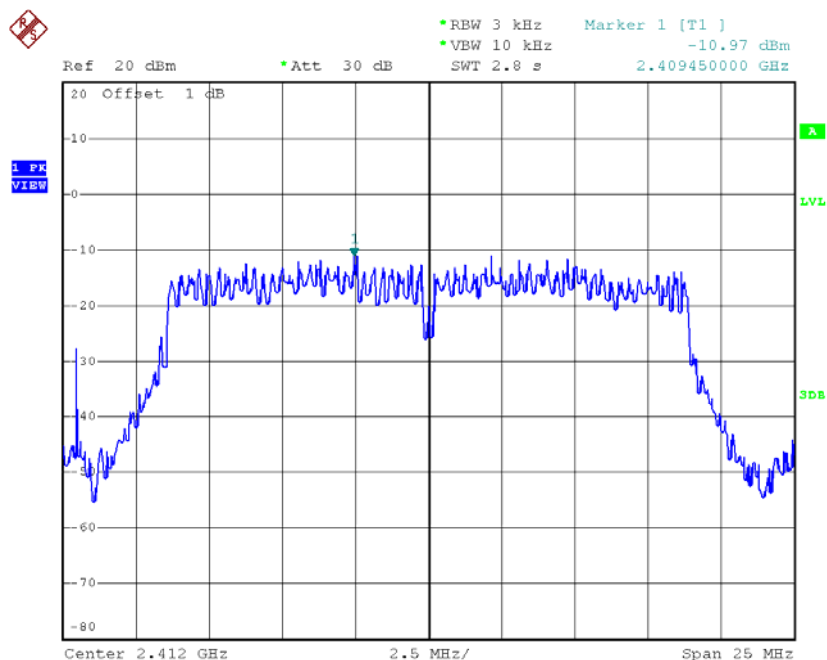


Date: 28.OCT.2015 23:18:14

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

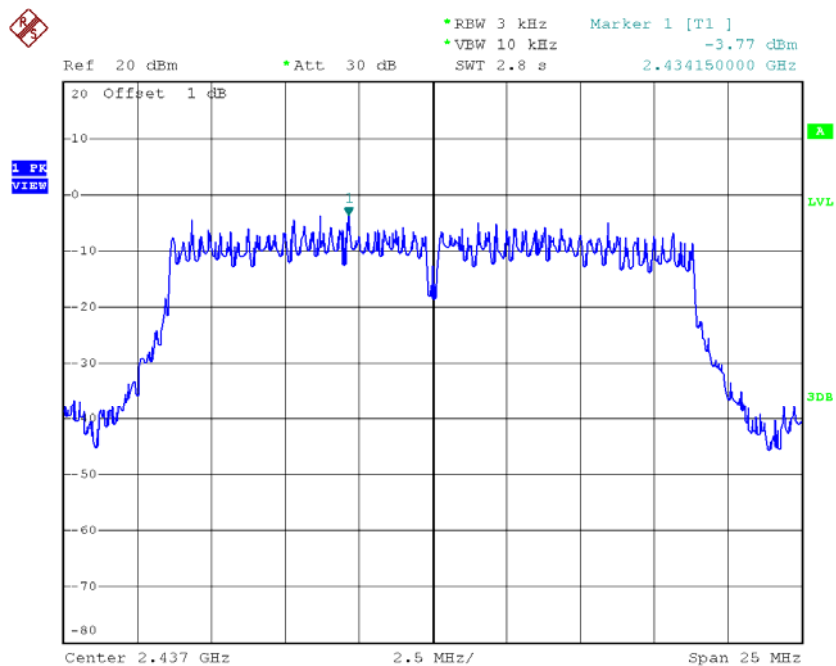
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-10.97	0.08	8.00	Complies
2437	-3.77	0.42	8.00	Complies
2462	-9.64	0.11	8.00	Complies

TX CH01



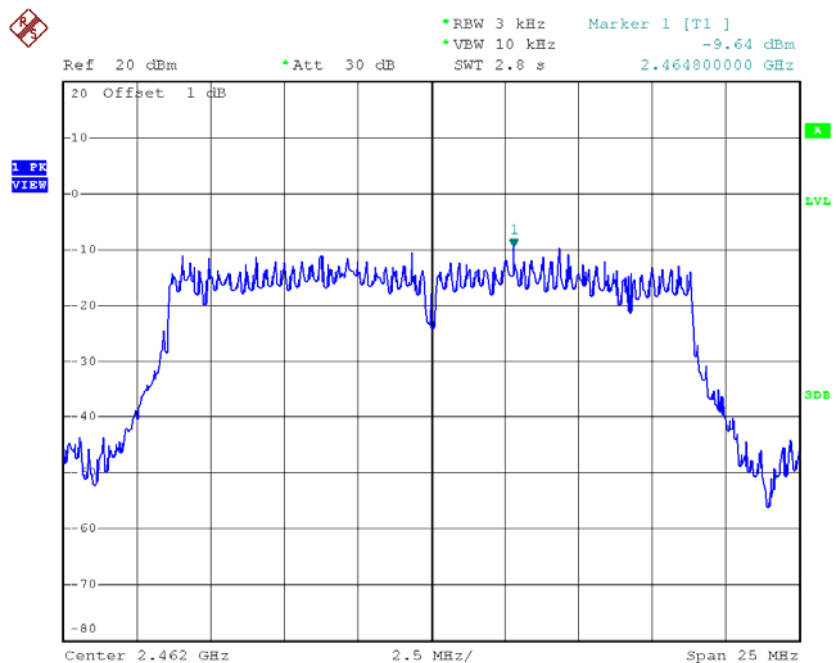
Date: 28.OCT.2015 23:07:11

TX CH06



Date: 28.OCT.2015 23:08:49

TX CH11



Date: 28.OCT.2015 23:09:54

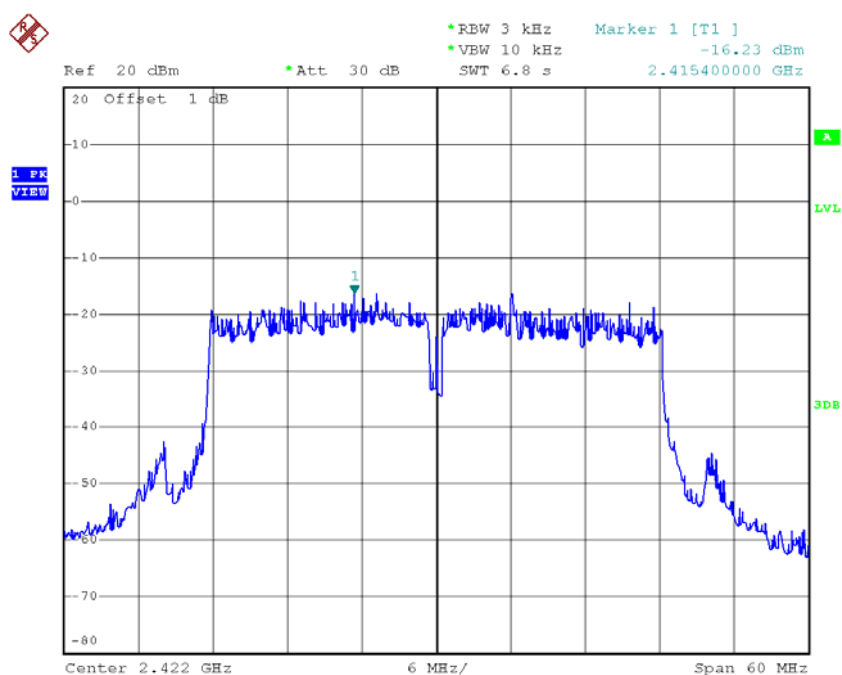
Test Mode : TX N-20M Mode_CH01/06/11_Total

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-6.78	0.21	8.00	Complies
2437	0.25	1.06	8.00	Complies
2462	-6.20	0.24	8.00	Complies

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

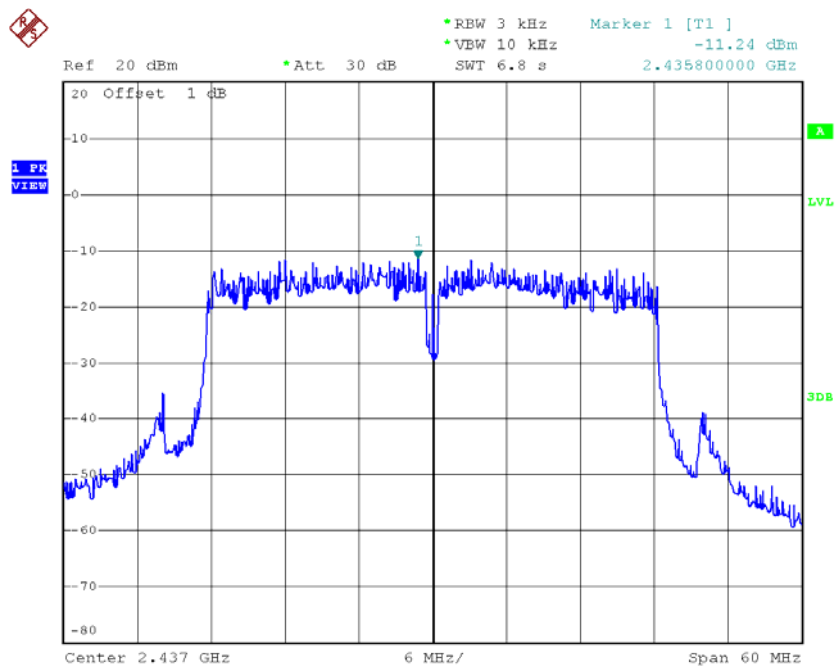
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.23	0.02	8.00	Complies
2437	-11.24	0.08	8.00	Complies
2452	-13.51	0.04	8.00	Complies

TX CH03



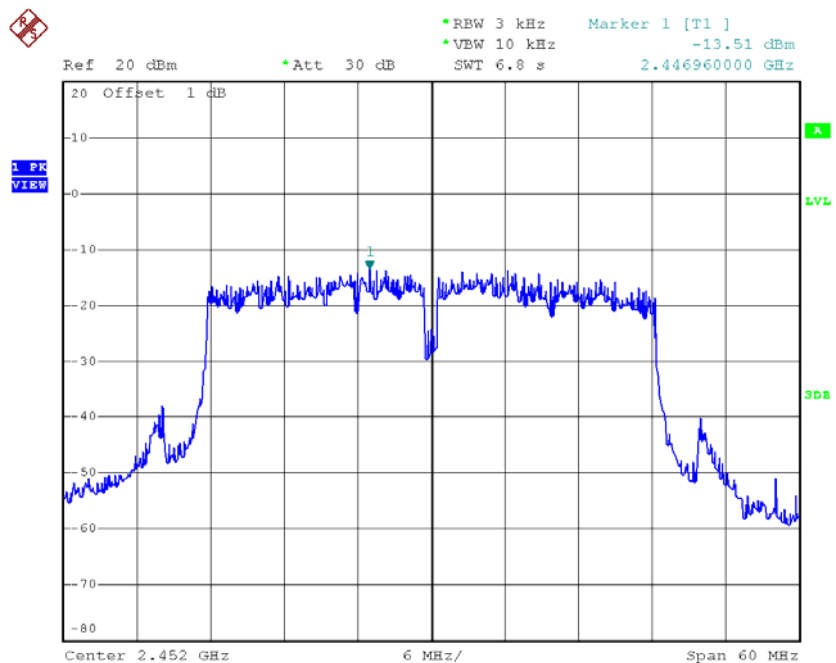
Date: 28.OCT.2015 23:19:39

TX CH06



Date: 28.OCT.2015 23:21:19

TX CH09

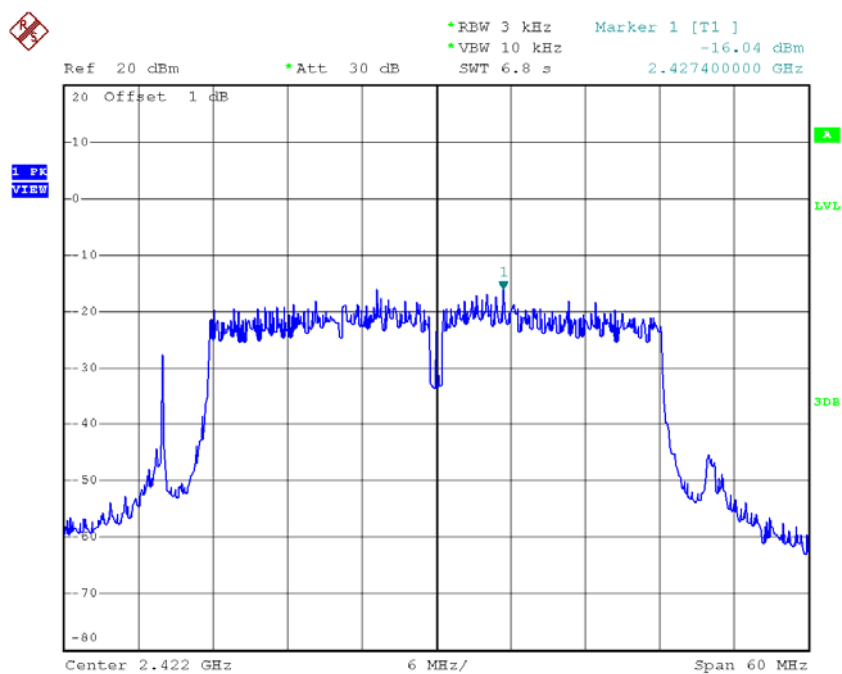


Date: 28.OCT.2015 23:22:33

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

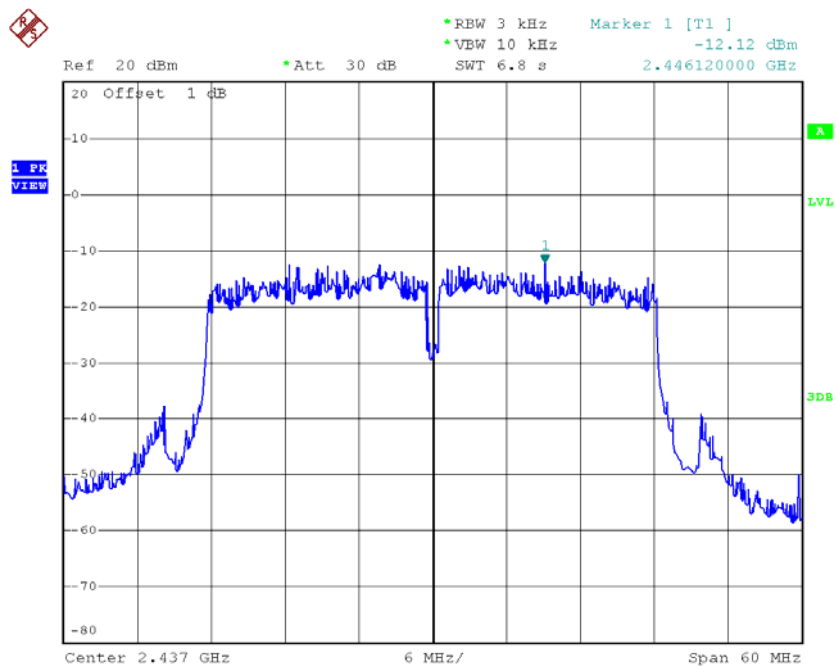
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-16.04	0.02	8.00	Complies
2437	-12.12	0.06	8.00	Complies
2452	-11.75	0.07	8.00	Complies

TX CH03



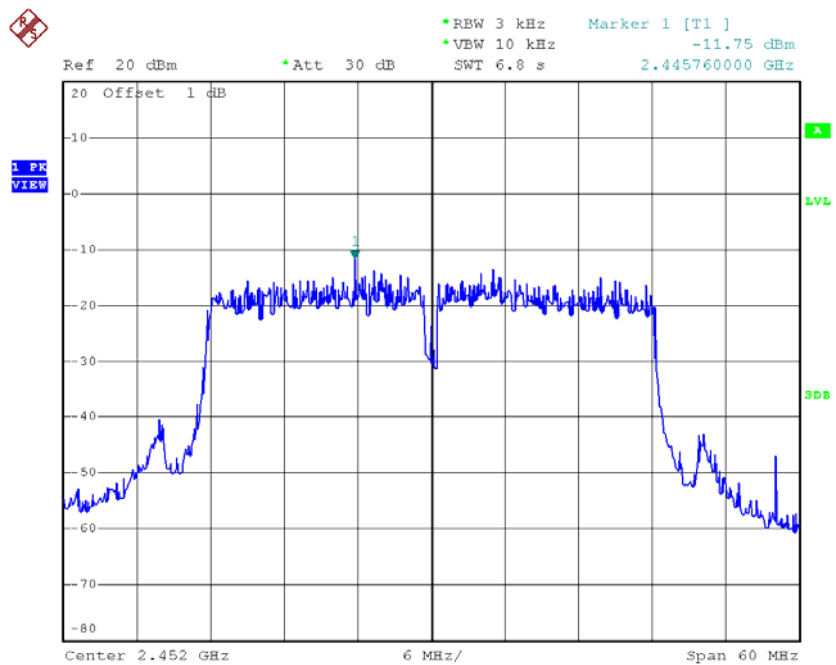
Date: 28.OCT.2015 23:11:08

TX CH06



Date: 28.OCT.2015 23:12:14

TX CH09



Date: 28.OCT.2015 23:13:25

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	-13.98	0.04	8.00	Complies
2437	-8.54	0.14	8.00	Complies
2452	-9.59	0.11	8.00	Complies