FCC Radio Test Report

FCC ID: KA2WR116A2

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

Project No.	:	1411C277A
Equipment	:	Wireless N300 3G/4G Multi-WAN Router
Model Name	:	DWR-116
Applicant	:	D-Link Inc.
Address	:	No.289,Xinhu 3Rd.,Neihu District, Taipei City 11494, Taiwan, ROC

Date of Receipt	:	Jul. 03, 2015
Date of Test	:	Jul. 03, 2015 ~ Jul. 21, 2015
Issued Date	:	Jul. 22, 2015
Tested by	:	BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-1-1411C277A	Original Issue.	Jul. 22, 2015

1. CERTIFICATION

Equipment	:	Wireless N300 3G/4G Multi-WAN Router
Brand Name	:	D-Link
Model Name	:	DWR-116
Applicant	:	D-Link Inc.
Manufacturer	:	D-Link Inc.
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	:	Jul. 03, 2015 ~ Jul. 21, 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-1-1411C277A) 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) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r03 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
DG-CB03	CISPR	9KHz~30MHz	V	3.79	
		9KHz~30MHz	H	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	H	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	H	3.94	
		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 N300 3G/4G Multi-WAN Router	
Brand Name	D-Link	
Model Name	DWR-116	
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: 19.96dBm 802.11g: 19.82dBm 802.11n(20MHz): 23.01dBm 802.11n(40MHz): 23.22dBm
Power Source	DC Voltage supplied from AC/DC adapter. #1 Manufacturer: SHENZHEN FRECOM ELECTRONICS CO., LTD Model: F12W3-050200SPAU #2 Brand: D-Link Model: AMS9-0502000FU2	
Power Rating	#1 I/P: 100-240V~50/60Hz 0.3A O/P:DC 5V 2.0A #2 I/P: 100-240V~50/60Hz 0.5A O/P:DC 5V 2.0A	

Note:

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

2. Channel List:

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Dipole	N/A	5.0
2	N/A	N/A	Dipole	N/A	5.0

Note:
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.

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	TX MODE

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

For Conducted Test	
Final Test Mode	Description
Mode 5	TX MODE

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

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

(2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.

(3) The EUT was pre-tested on 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.

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

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

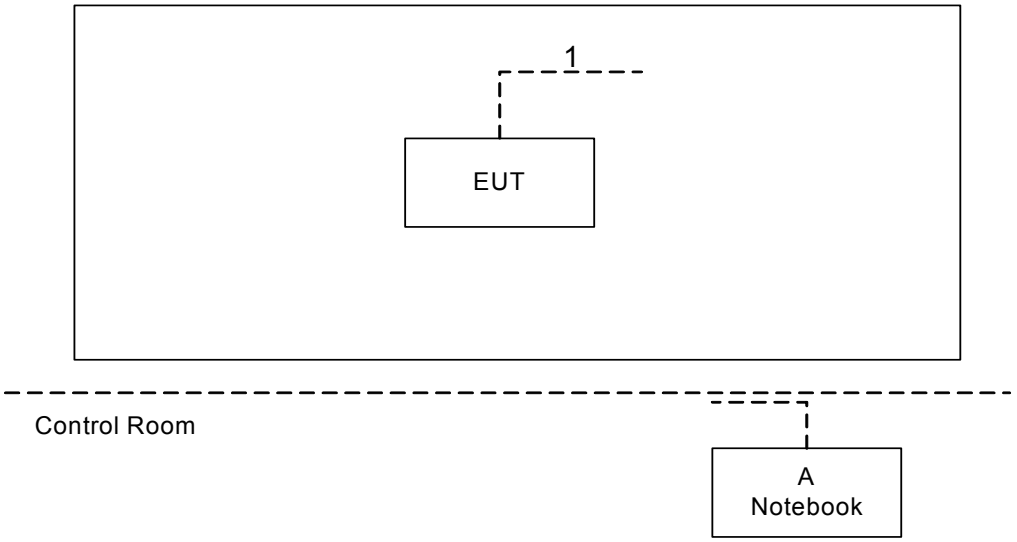
(6) The two power supply model (F12W3-050200SPAU) and model (AMS9-0502000FU2) were test, the model (AMS9-0502000FU2) is worst case for and included in the test report.

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	QA		
Frequency (MHz)	2412	2437	2462
802.11b	12	0B	15
802.11g	8	1	0E
802.11n (20MHz)	9	0A	0D
Frequency	2422	2437	2452
802.11n (40MHz)	7	0C	9

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID/IC	Series No.	Note
A	Notebook	DELL	INSPIRON 14-3437	DOC	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	10m	RJ45 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 (dBμV)	
	Quasi-peak	Average
0.15 -0.	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

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

The following table is the setting of the receiver

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

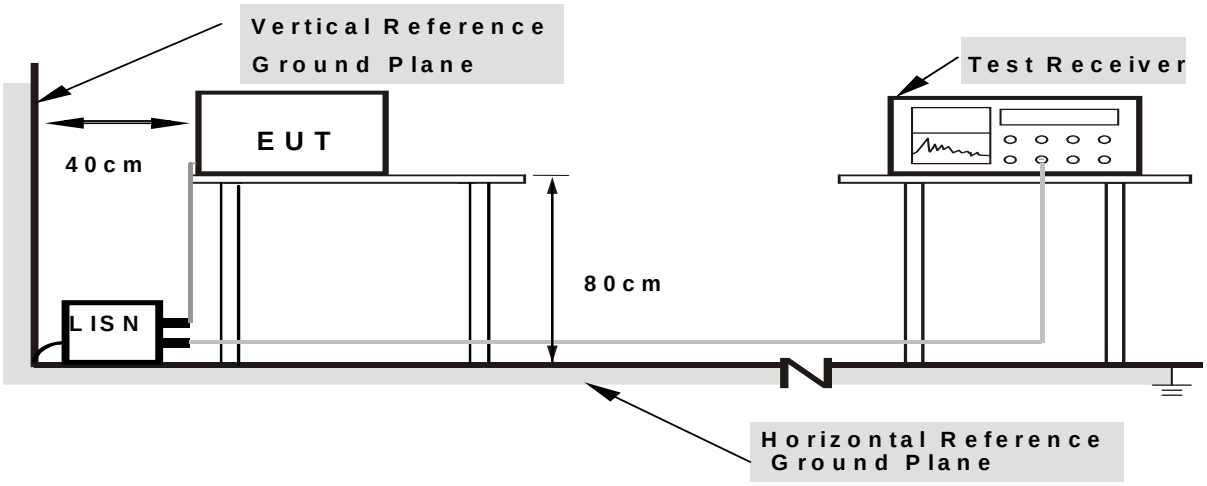
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C47.

(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

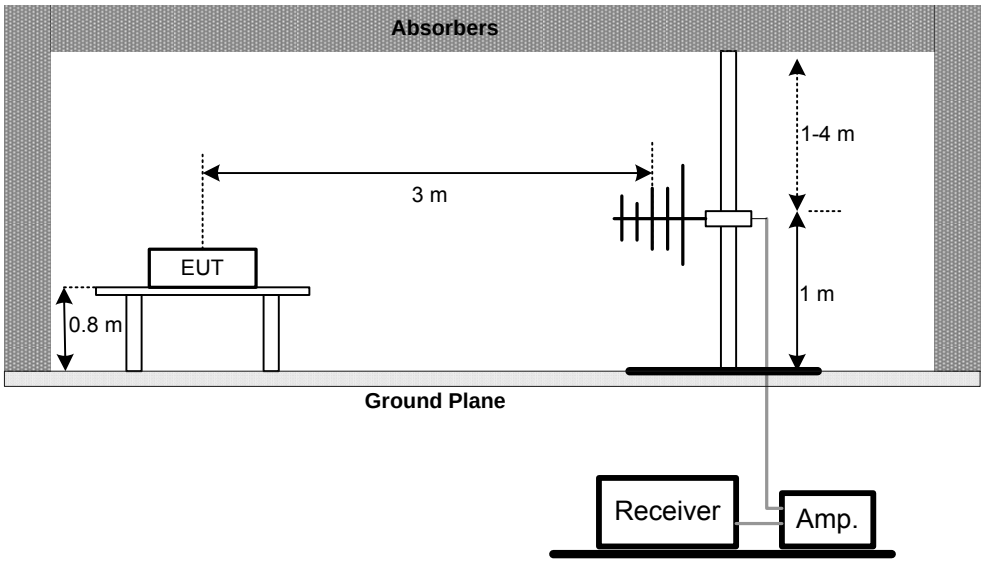
a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
b. The measuring distance 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 1.5 m; 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. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
g All modes of operation were investigated and the worst-case emissions are reported.
h For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

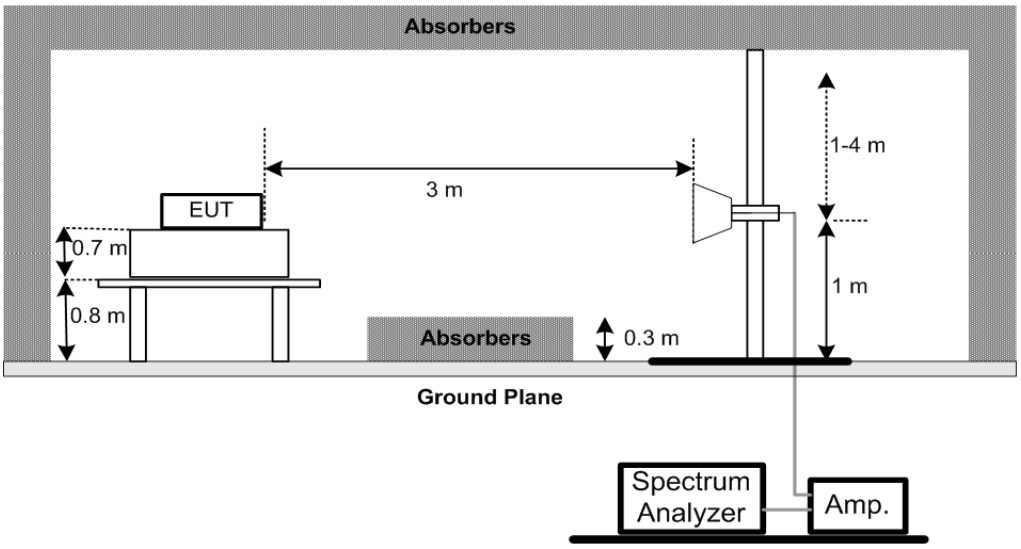
No deviation

4.2.4 TEST SETUP

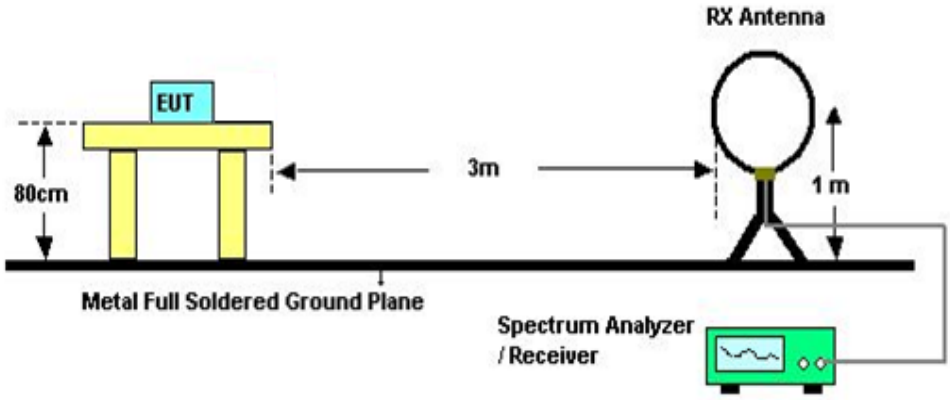
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

(1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
(2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C47			
Section	Test Item	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	2400-2483.5	PASS

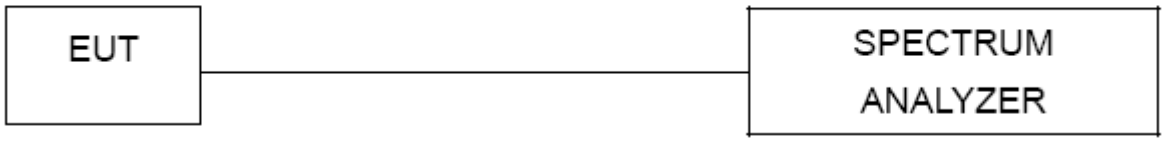
5.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.1.5 EUT TEST CONDITIONS

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

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM PEAK CONDUCTED OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Maximum Output Power	1 Watt or 30dBm	2400-2483.5	PASS

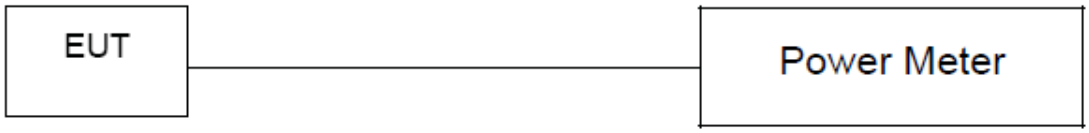
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance v03r03.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

6.1.5 EUT TEST CONDITIONS

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

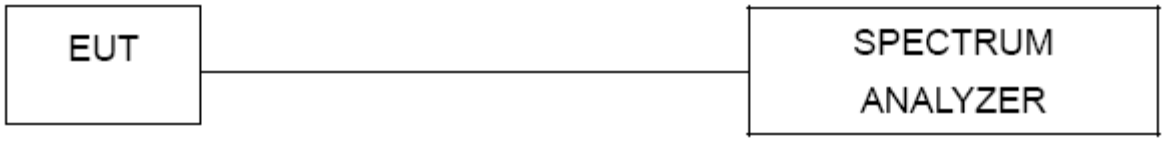
7.1.1 TEST PROCEDURE

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

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

7.1.5 EUT TEST CONDITIONS

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

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

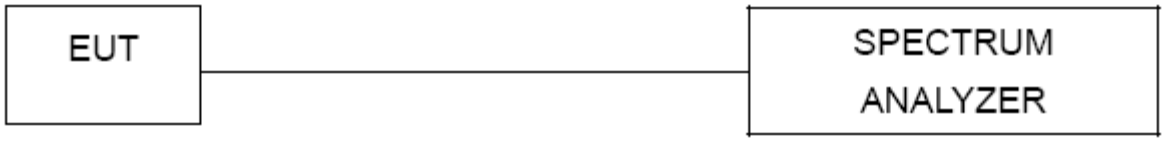
8.1.1 TEST PROCEDURE

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

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

8.1.5 EUT TEST CONDITIONS

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

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	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	833364/017	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	MY52130039	Sep. 30, 2015
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 28, 2016
7	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015
8	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
9	Test Cable	emci	EMC104-SM-SM-10000(1GHz ─ 26.5GHz)	C-68	Jun. 28, 2016
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 28, 2016
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 16, 2015
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

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

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

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

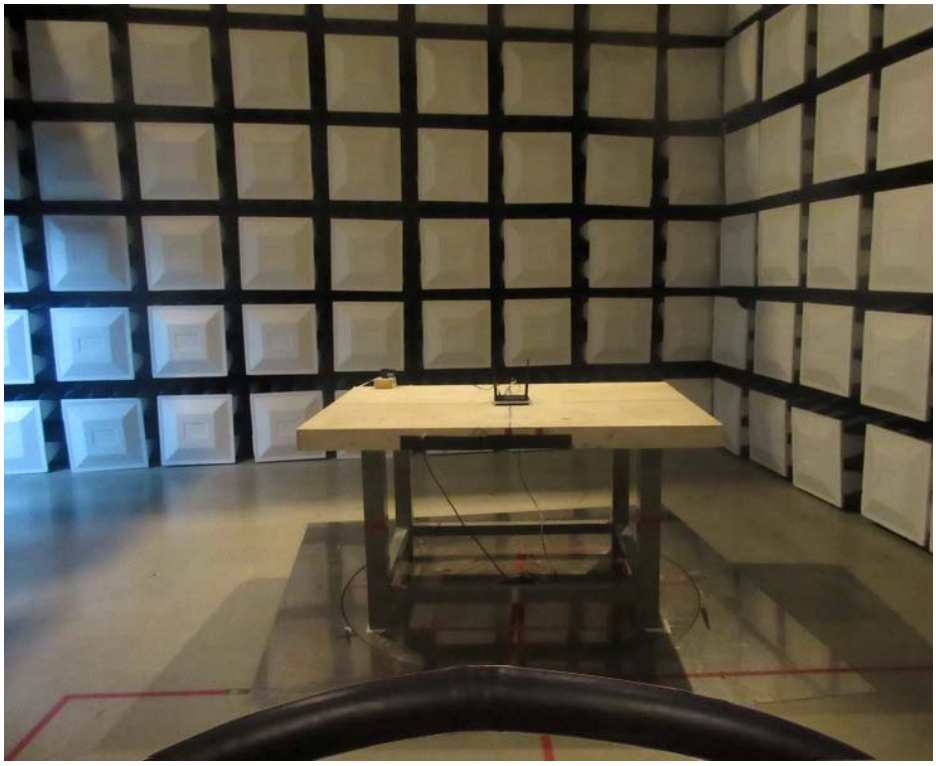
Remark: ”N/A” denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

10. EUT TEST PHOTO

Conducted Measurement Photos

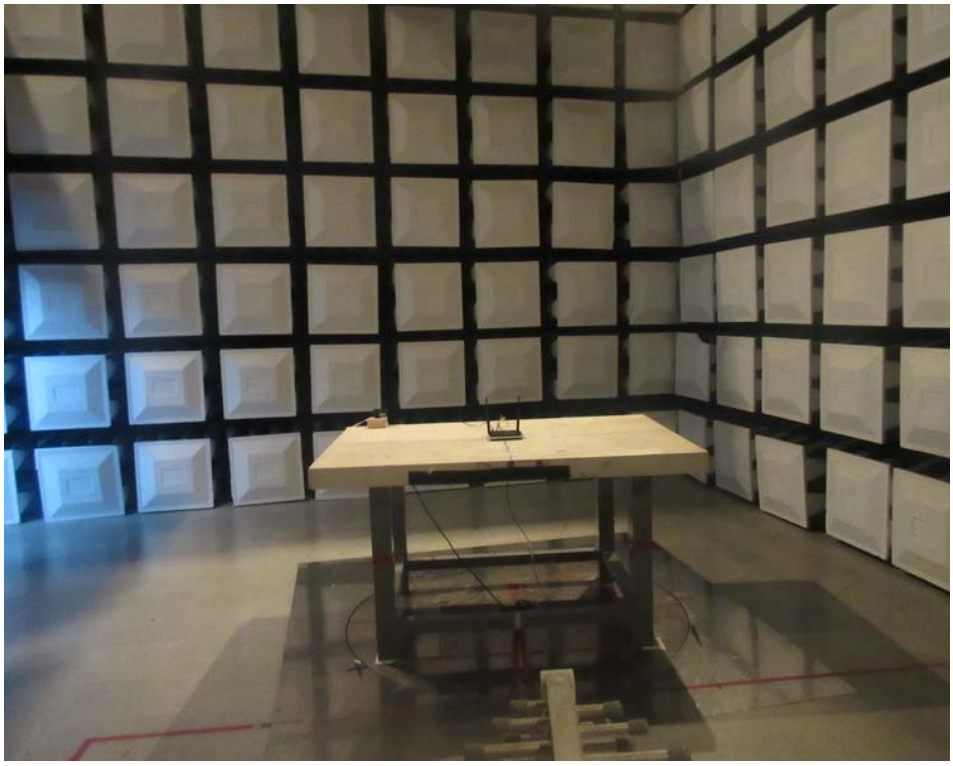
Radiated Measurement Photos

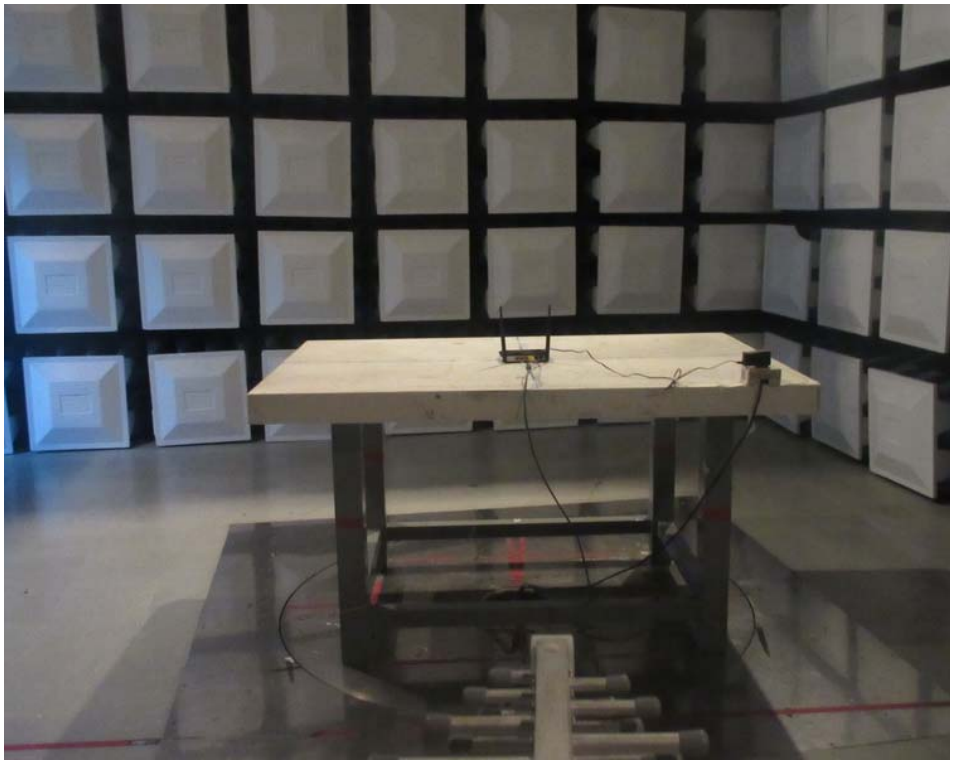
9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz





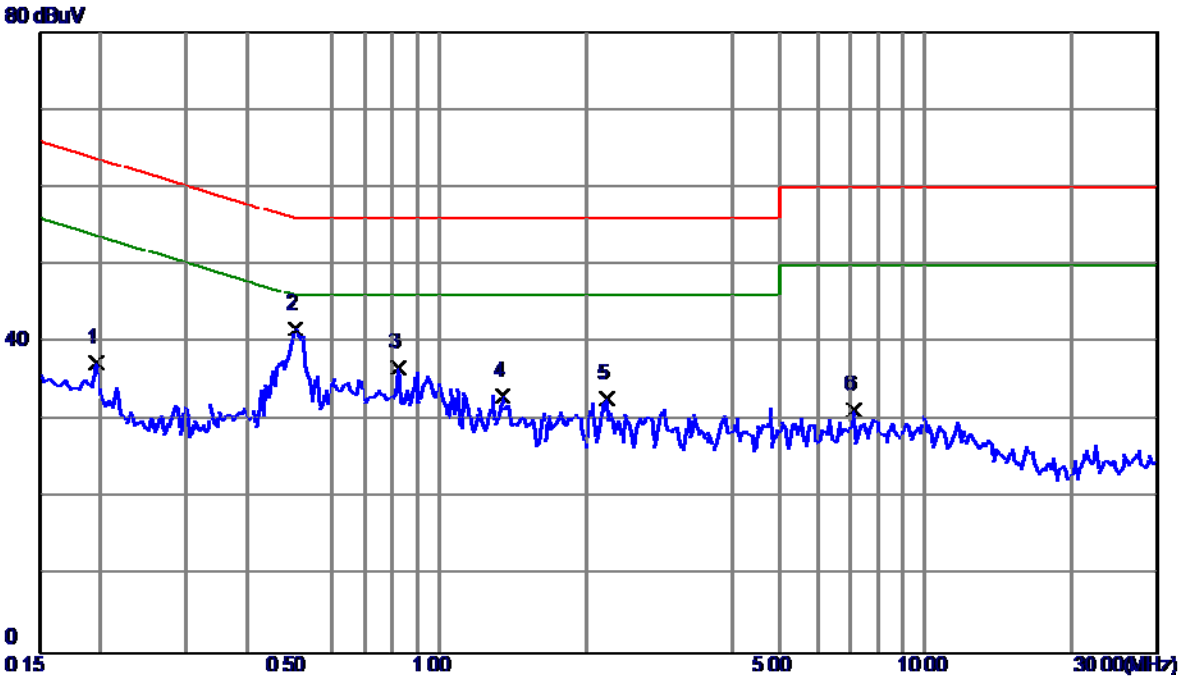
Radiated Measurement Photos

Above 1000MHz

ATTACHMENT A - CONDUCTED EMISSION

Test Mode :	TX MODE

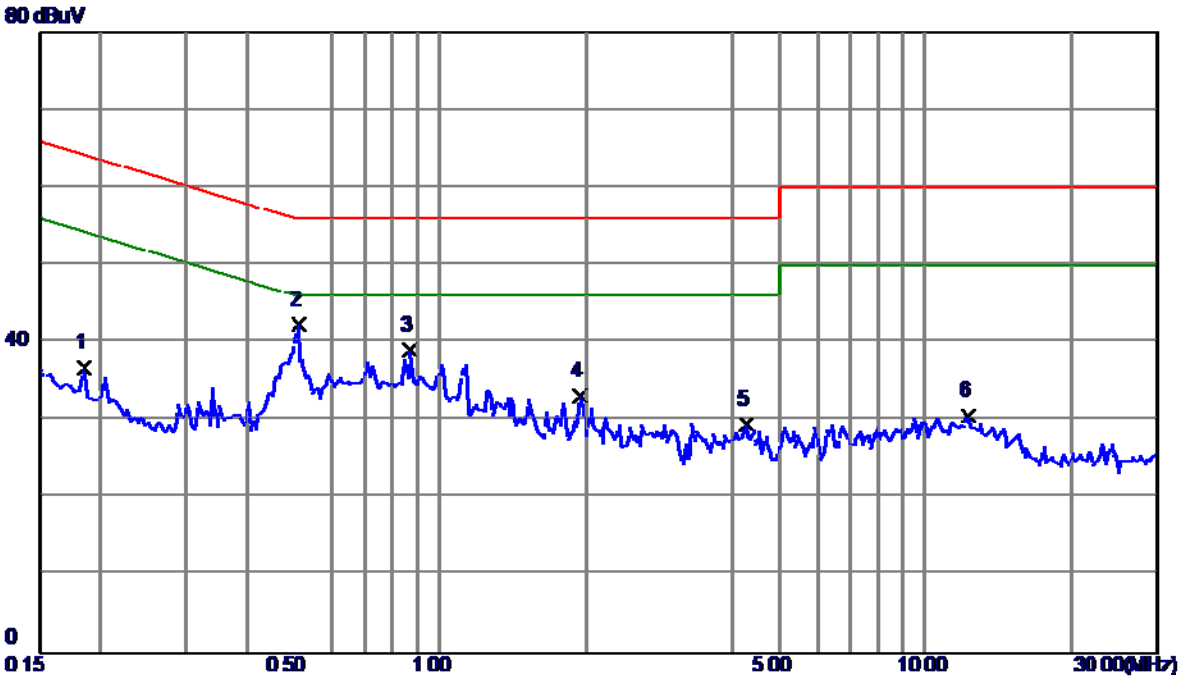
Line



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1970	27.80	9.57	37.37	63.74	-26.37	Peak	
2	0.5055	32.08	9.68	41.76	56.00	-14.24	Peak	
3	0.8220	27.05	9.76	36.81	56.00	-19.19	Peak	
4	1.3453	23.33	9.83	33.16	56.00	-22.84	Peak	
5	2.2047	22.91	9.95	32.86	56.00	-23.14	Peak	
6	7.1445	21.45	9.91	31.36	60.00	-28.64	Peak	

Test Mode :	TX MODE

Neutral



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1852	27.33	9.49	36.82	64.25	-27.43	Peak	
2	0.5132	32.76	9.56	42.32	56.00	-13.68	Peak	
3	0.8648	29.47	9.58	39.05	56.00	-16.95	Peak	
4	1.9391	23.35	9.71	33.06	56.00	-22.94	Peak	
5	4.2733	19.55	9.91	29.46	56.00	-26.54	Peak	
6	12.2772	20.69	9.88	30.57	60.00	-29.43	Peak	

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

Test Mode:	TX MODE

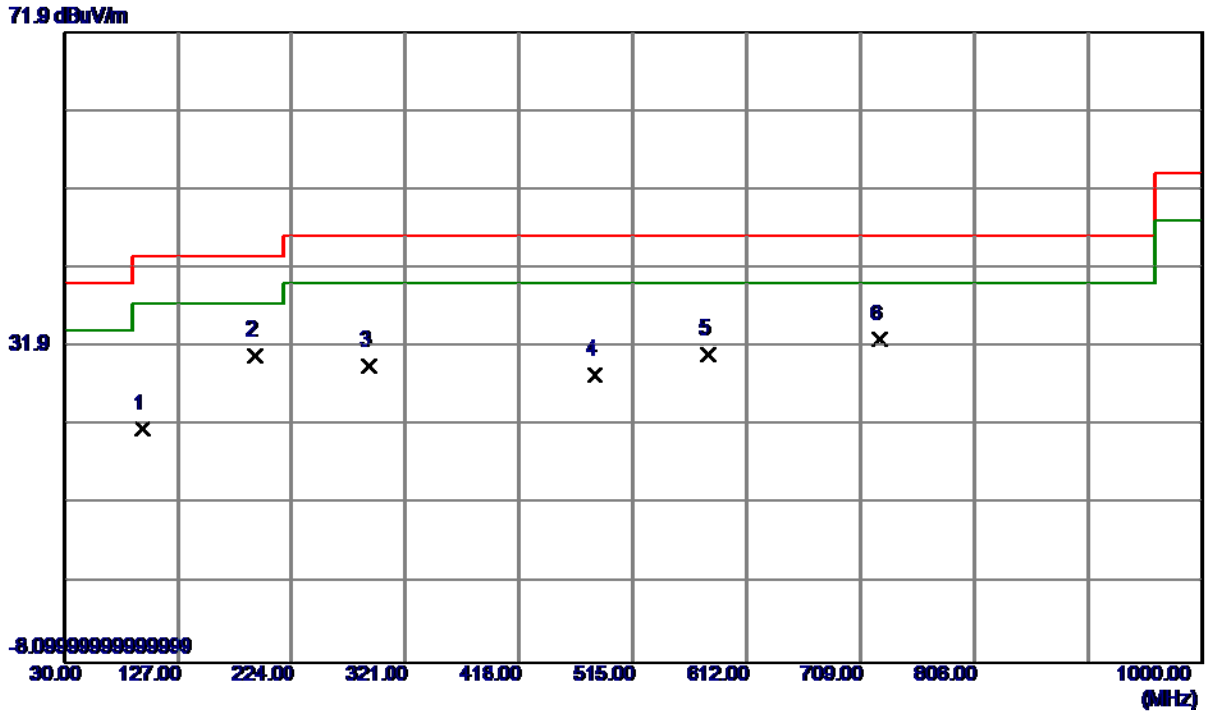
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0102	0°	13.42	24.9207	38.3407	127.4322	-89.0916	AVG
1.0102	0°	14.55	24.9207	39.4707	147.4322	-107.9616	PEAK
0.0254	0°	6.72	23.9580	30.6780	119.5076	-88.8296	AVG
0.0254	0°	8.24	23.9580	32.1980	139.5076	-107.3096	PEAK
0.0342	0°	3.29	23.4007	26.6907	116.9237	-90.2330	AVG
0.0342	0°	5.72	23.4007	29.1207	136.9237	-107.8030	PEAK
0.0451	0°	1.26	22.7103	23.9703	114.5207	-90.5504	AVG
0.0451	0°	2.68	22.7103	25.3903	134.5207	-109.1304	PEAK
0.4943	0°	19.53	19.8137	39.3437	73.7244	-34.3807	QP
1.7172	0°	23.69	19.5283	43.2183	69.5400	-26.3217	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.00962	90°	13.26	24.3000	37.5600	127.9407	-90.3807	AVG
0.00962	90°	14.93	24.3000	39.2300	147.9407	-108.7107	PEAK
0.0283	90°	7.46	23.7743	31.2343	118.5685	-87.3342	AVG
0.0283	90°	8.84	23.7743	32.6143	138.5685	-105.9542	PEAK
0.0346	90°	5.49	23.3753	28.8653	116.8227	-87.9574	AVG
0.0346	90°	6.21	23.3753	29.5853	136.8227	-107.2374	PEAK
0.0432	90°	1.61	22.8307	24.4407	114.8945	-90.4539	AVG
0.0432	90°	2.76	22.8307	25.5907	134.8945	-109.3039	PEAK
0.4924	90°	22.31	19.8182	42.1282	73.7579	-31.6296	QP
1.7134	90°	24.43	19.5287	43.9587	69.5400	-25.5813	QP

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

Test Mode:	TX B MODE CHANNEL 01

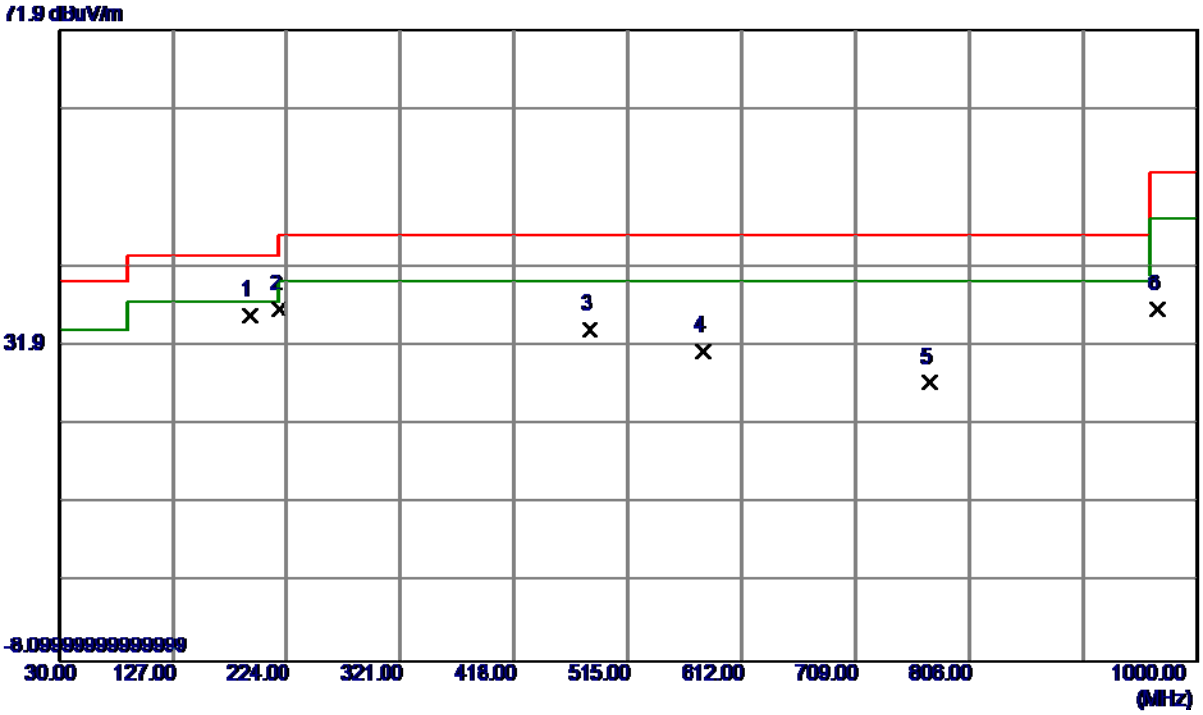
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	96.9300	46.71	-25.28	21.43	43.50	-22.07	Peak	
2	192.9600	51.93	-21.13	30.80	43.50	-12.70	Peak	
3	289.9600	45.30	-15.76	29.54	46.00	-16.46	Peak	
4	482.9900	44.43	-16.07	28.36	46.00	-17.64	Peak	
5	579.9900	44.08	-13.16	30.92	46.00	-15.08	Peak	
6	725.4900	40.90	-8.08	32.82	46.00	-13.18	Peak	

Test Mode:	TX B MODE CHANNEL 01

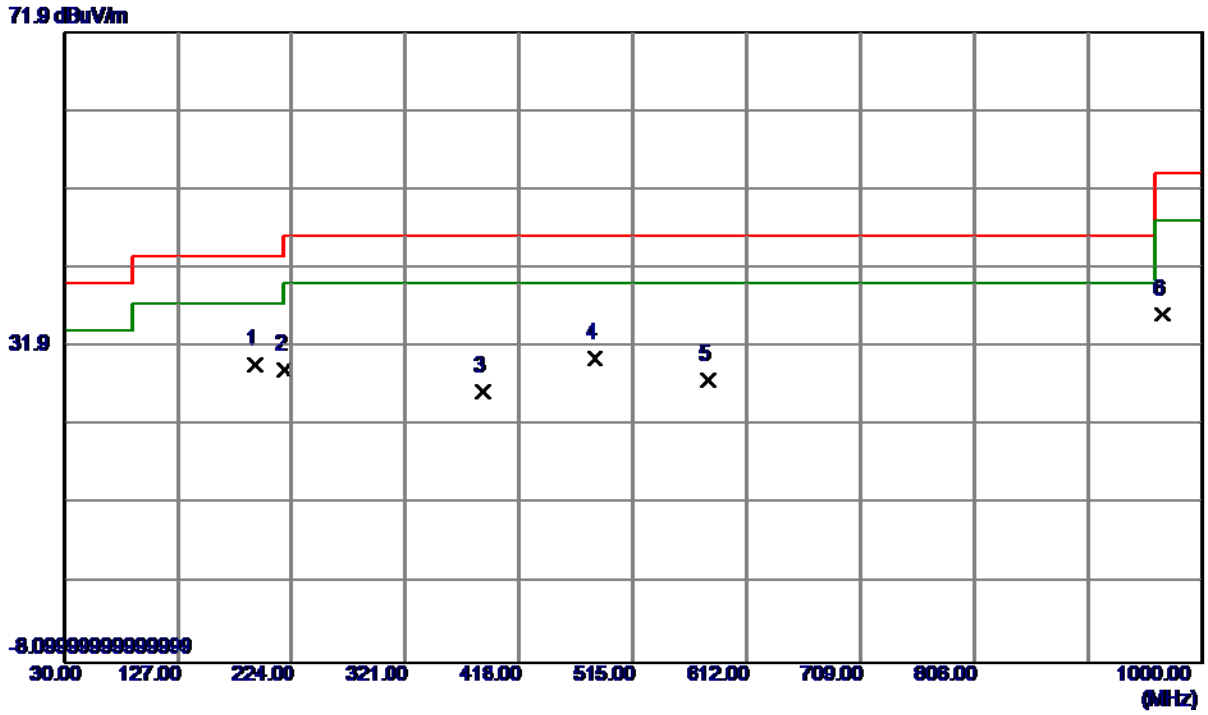
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	192.9600	58.54	-22.87	35.67	43.50	-7.83	Peak	
2	217.2100	58.29	-21.74	36.55	46.00	-9.45	Peak	
3	482.9900	47.71	-13.69	34.02	46.00	-11.98	Peak	
4	579.9900	42.96	-11.69	31.27	46.00	-14.73	Peak	
5	773.0200	35.21	-7.90	27.31	46.00	-18.69	Peak	
6	967.0200	41.67	-5.16	36.51	54.00	-17.49	Peak	

Test Mode:	TX B MODE CHANNEL 06

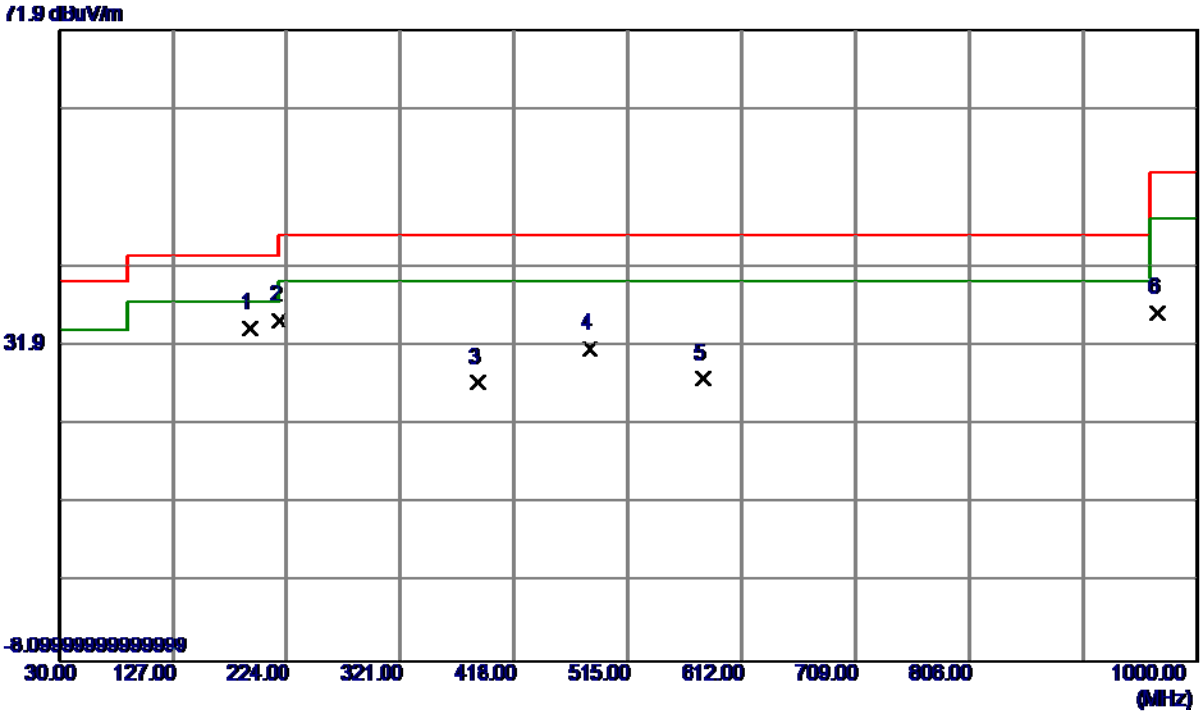
Vertical



No.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	192.9600	52.54	-22.87	29.67	43.50	-13.83	Peak	
2	217.2100	50.79	-21.74	29.05	46.00	-16.95	Peak	
3	386.9600	41.97	-15.71	26.26	46.00	-19.74	Peak	
4	482.9900	44.21	-13.69	30.52	46.00	-15.48	Peak	
5	579.9900	39.46	-11.69	27.77	46.00	-18.23	Peak	
6	967.0200	41.17	-5.16	36.01	54.00	-17.99	Peak	

Test Mode:	TX B MODE CHANNEL 06

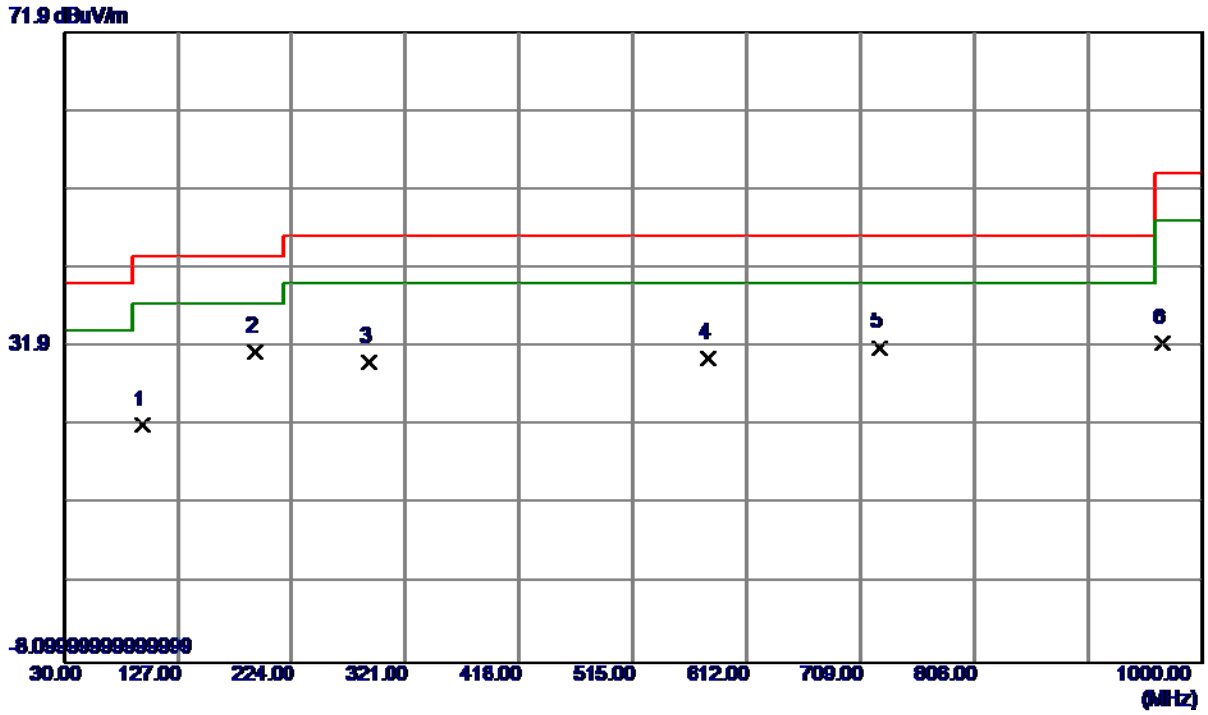
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	192.9600	57.04	-22.87	34.17	43.50	-9.33	Peak	
2	217.2100	56.79	-21.74	35.05	46.00	-10.95	Peak	
3	386.9600	42.97	-15.71	27.26	46.00	-18.74	Peak	
4	482.9900	45.21	-13.69	31.52	46.00	-14.48	Peak	
5	579.9900	39.46	-11.69	27.77	46.00	-18.23	Peak	
6	967.0200	41.17	-5.16	36.01	54.00	-17.99	Peak	

Test Mode:	TX B MODE CHANNEL 11

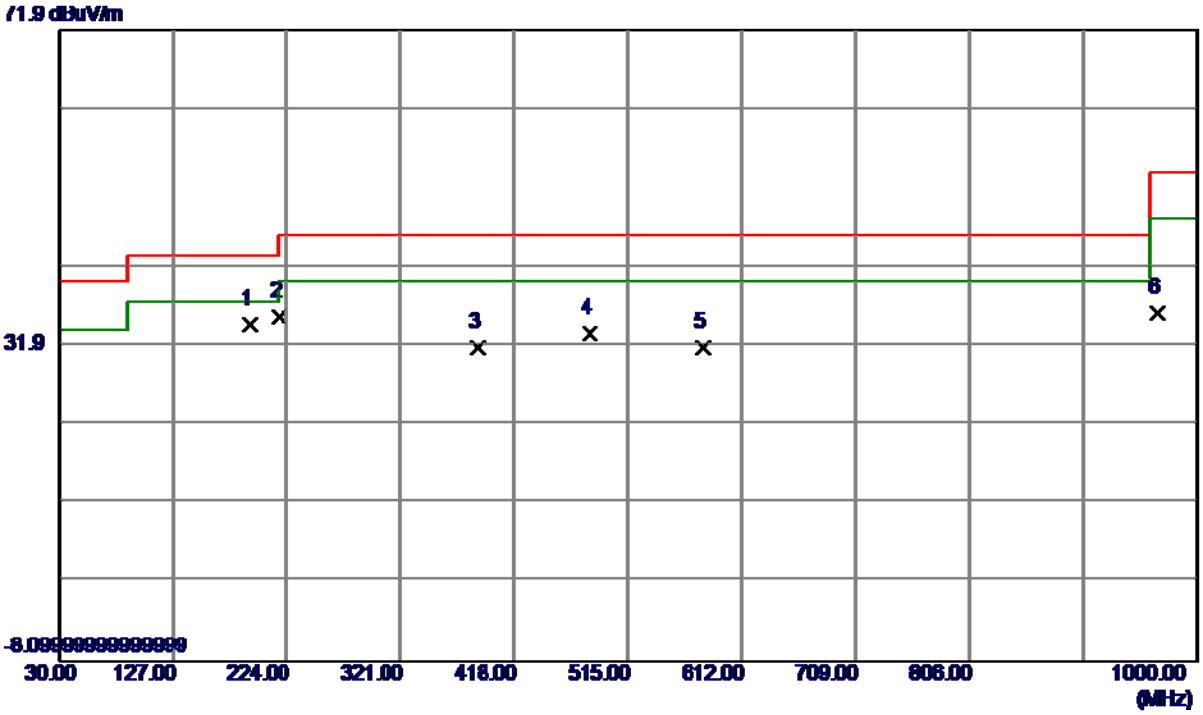
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	96.9300	47.21	-25.28	21.93	43.50	-21.57	Peak	
2	192.9600	52.43	-21.13	31.30	43.50	-12.20	Peak	
3	289.9600	45.80	-15.76	30.04	46.00	-15.96	Peak	
4	579.9900	43.58	-13.16	30.42	46.00	-15.58	Peak	
5	725.4900	39.90	-8.08	31.82	46.00	-14.18	Peak	
6	967.0200	37.54	-5.23	32.31	54.00	-21.69	Peak	

Test Mode:	TX B MODE CHANNEL 11

Horizontal

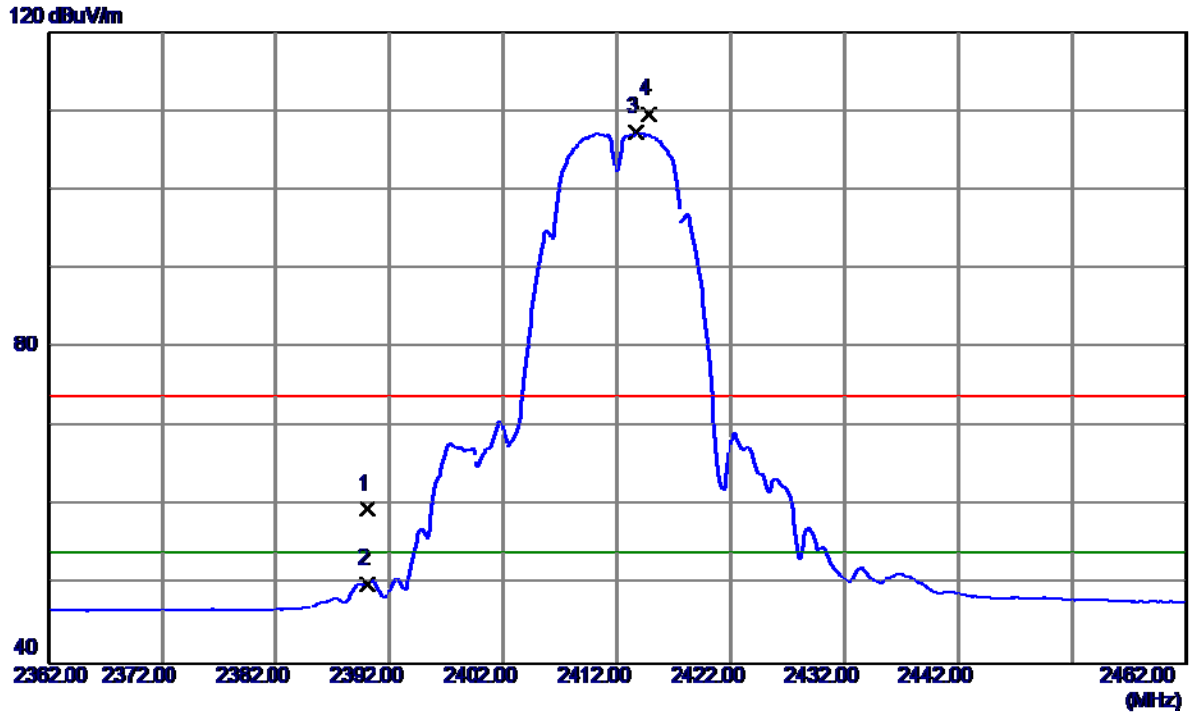


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	192.9600	57.54	-22.87	34.67	43.50	-8.83	Peak	
2	217.2100	57.29	-21.74	35.55	46.00	-10.45	Peak	
3	386.9600	47.47	-15.71	31.76	46.00	-14.24	Peak	
4	482.9900	47.21	-13.69	33.52	46.00	-12.48	Peak	
5	579.9900	43.46	-11.69	31.77	46.00	-14.23	Peak	
6	967.0200	41.17	-5.16	36.01	54.00	-17.99	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

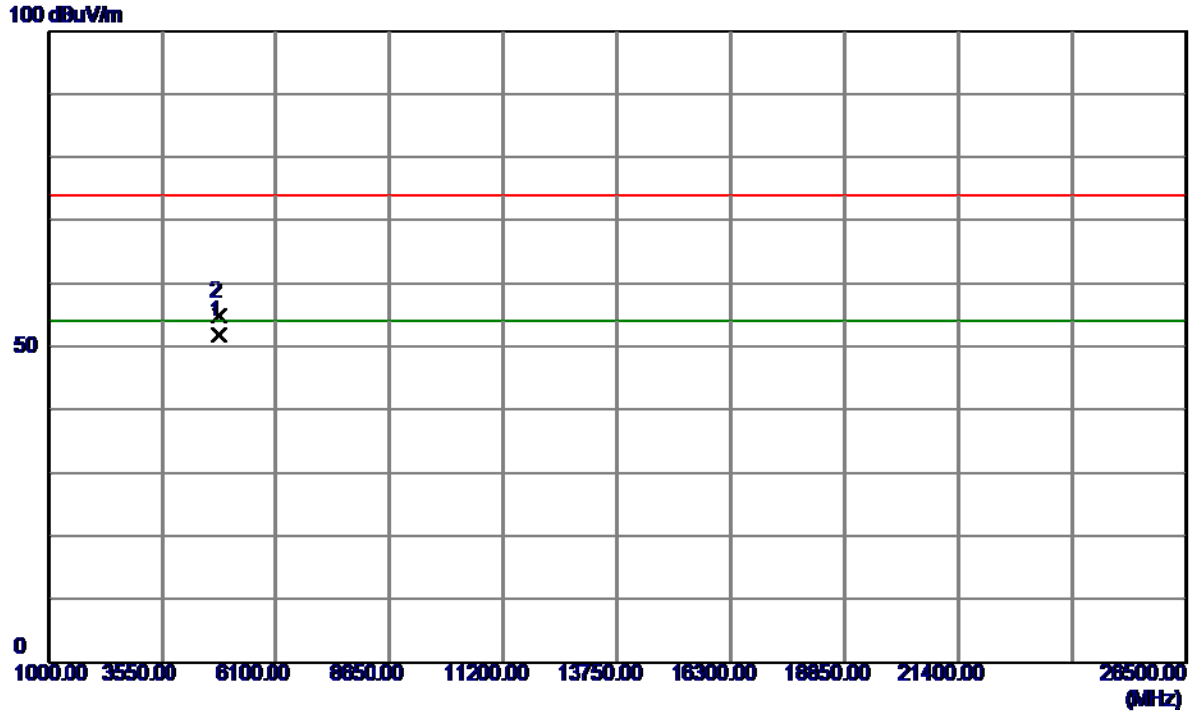
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	26.92	32.68	59.60	74.00	-14.40	Peak	
2	2390.0000	17.41	32.68	50.09	54.00	-3.91	AVG	
3	2413.7000	74.64	32.71	107.35	54.00	53.35	AVG	No Limit
4	2414.8000	76.90	32.71	109.61	74.00	35.61	Peak	No Limit

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

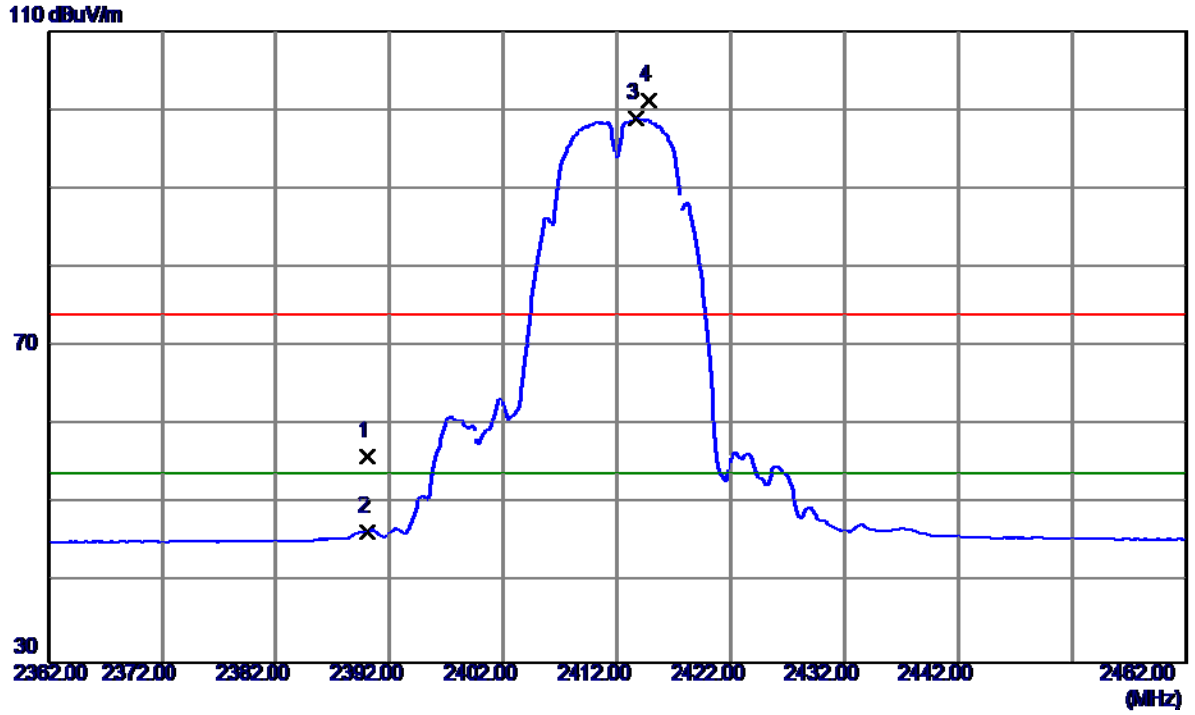
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9800	51.93	-0.07	51.86	54.00	-2.14	AVG	
2	4824.0200	54.84	-0.07	54.77	74.00	-19.23	Peak	

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

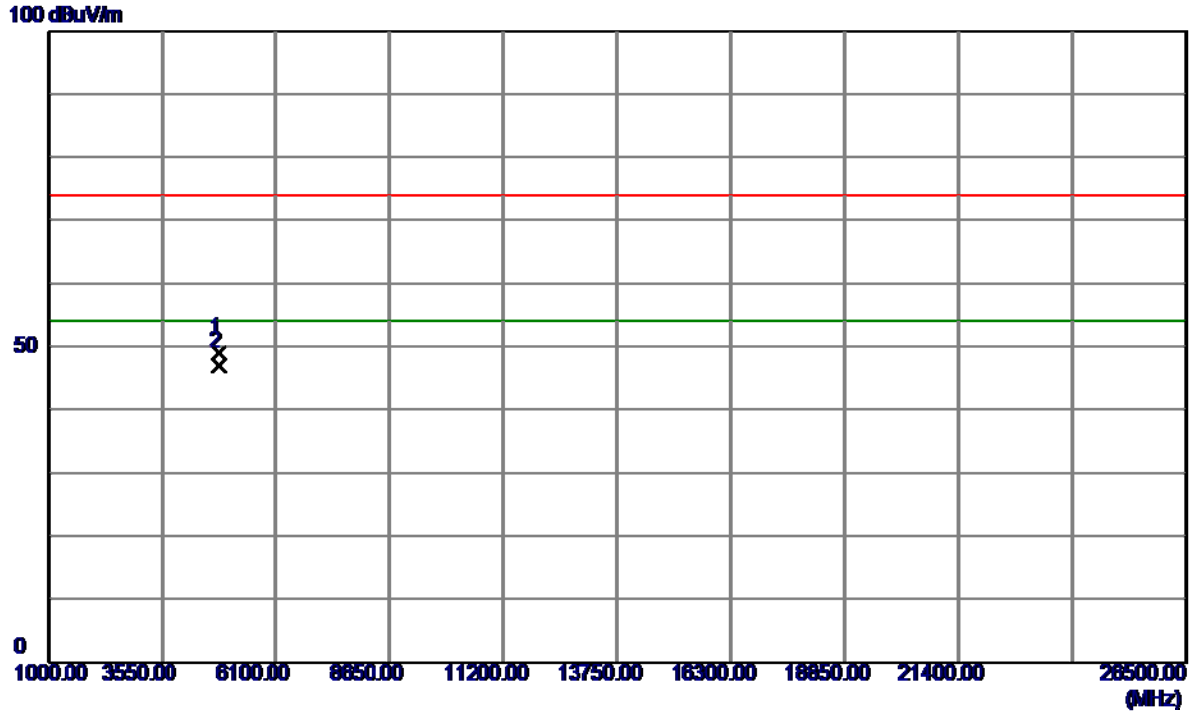
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	23.38	32.68	56.06	74.00	-17.94	Peak	
2	2390.0000	13.86	32.68	46.54	54.00	-7.46	AVG	
3	2413.7000	66.24	32.71	98.95	54.00	44.95	AVG	No Limit
4	2414.8000	68.45	32.71	101.16	74.00	27.16	Peak	No Limit

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

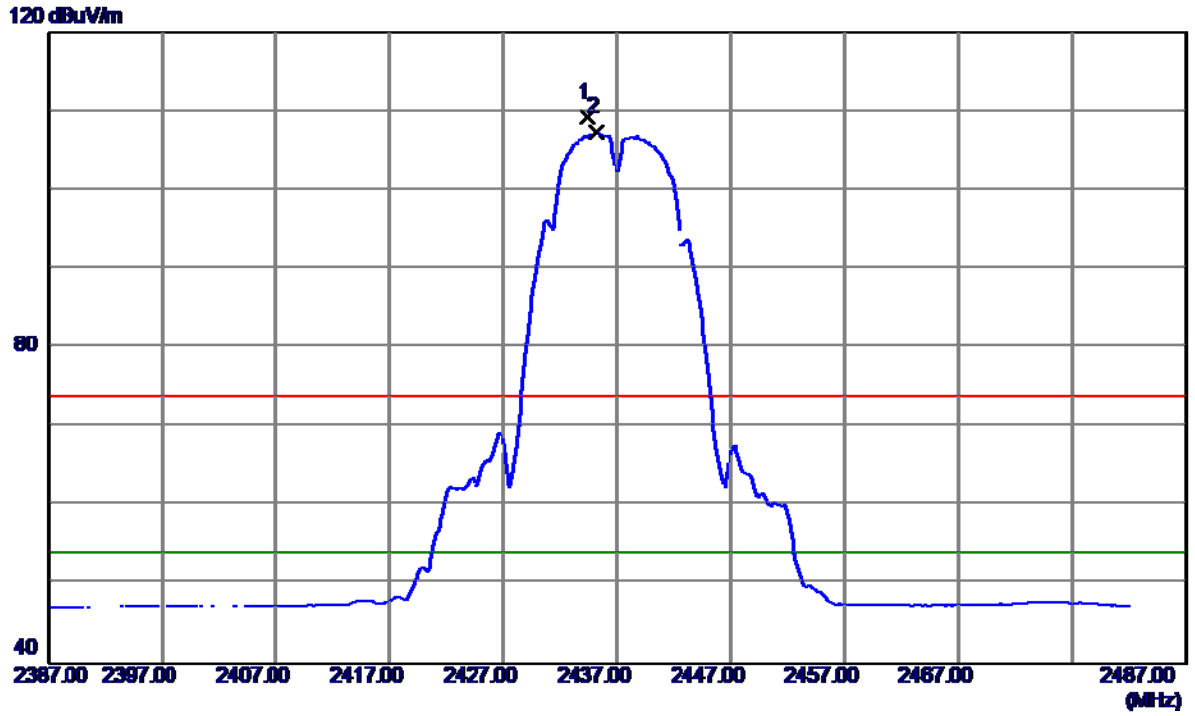
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.9800	48.98	-0.07	48.91	74.00	-25.09	Peak	
2	4823.9800	46.97	-0.07	46.90	54.00	-7.10	AVG	

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

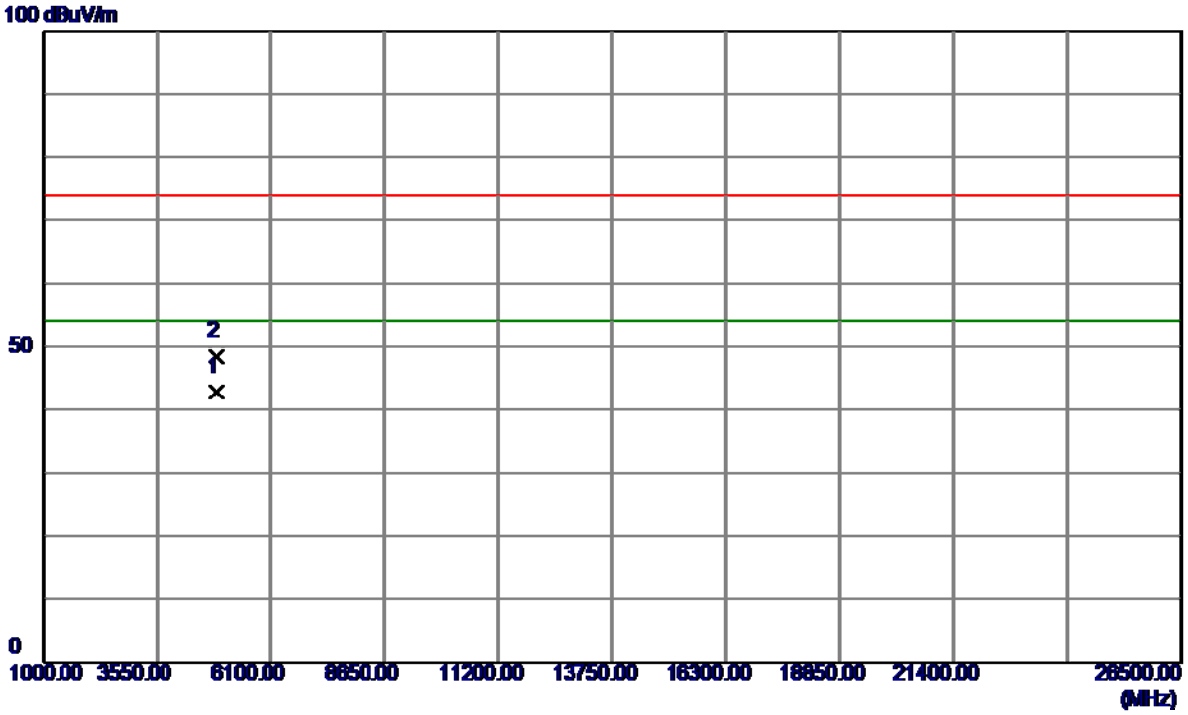
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2434.4000	76.46	32.74	109.20	74.00	35.20	Peak	No Limit
2	2435.2000	74.57	32.74	107.31	54.00	53.31	AVG	No Limit

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

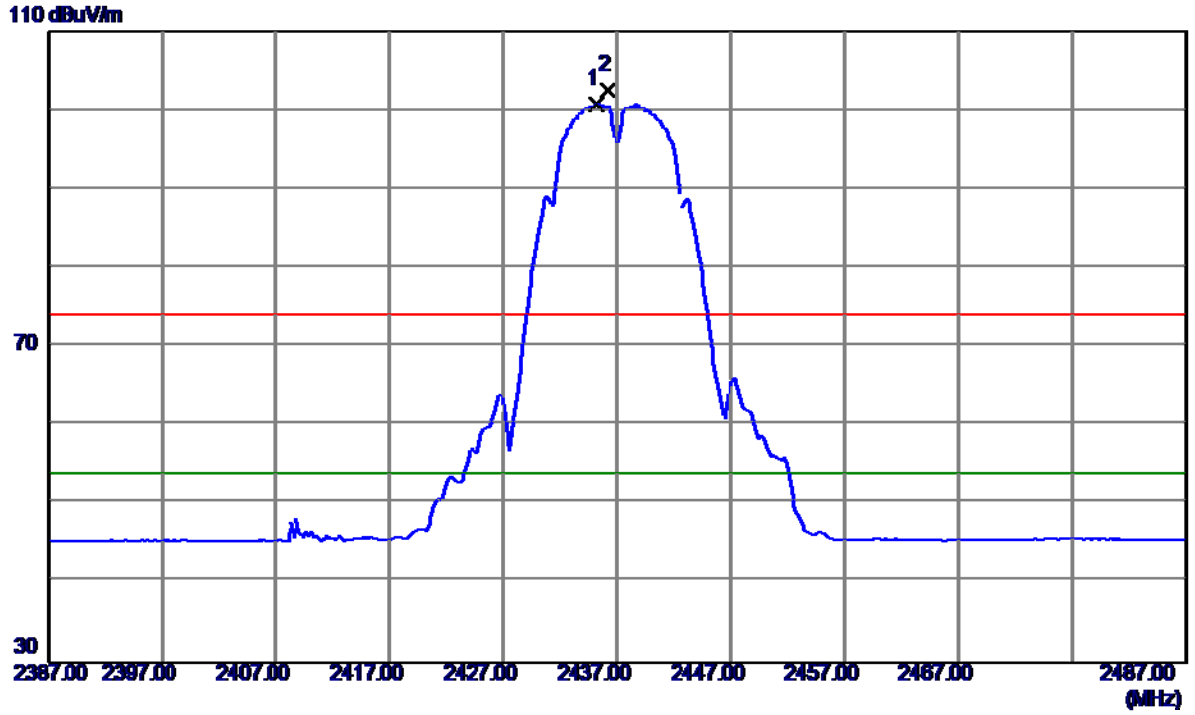
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.9600	42.74	0.05	42.79	54.00	-11.21	AVG	
2	4874.2200	48.37	0.05	48.42	74.00	-25.58	Peak	

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

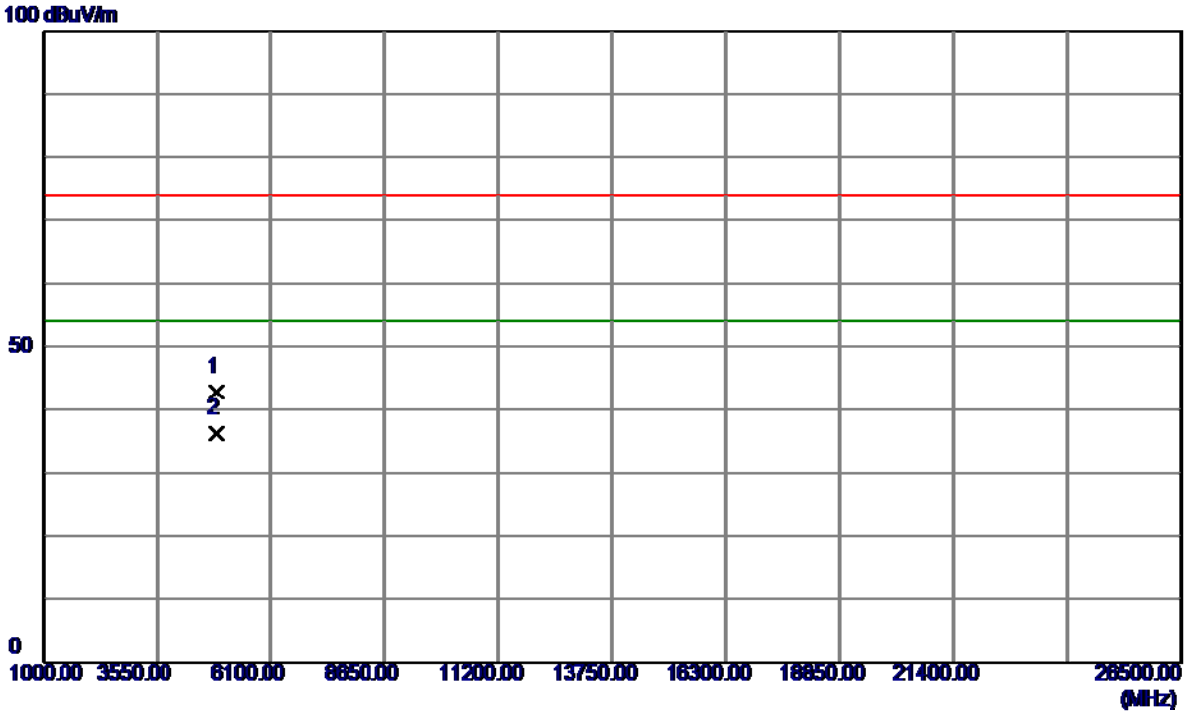
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435.2000	68.04	32.74	100.78	54.00	46.78	AVG	No Limit
2	2436.2000	69.80	32.74	102.54	74.00	28.54	Peak	No Limit

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

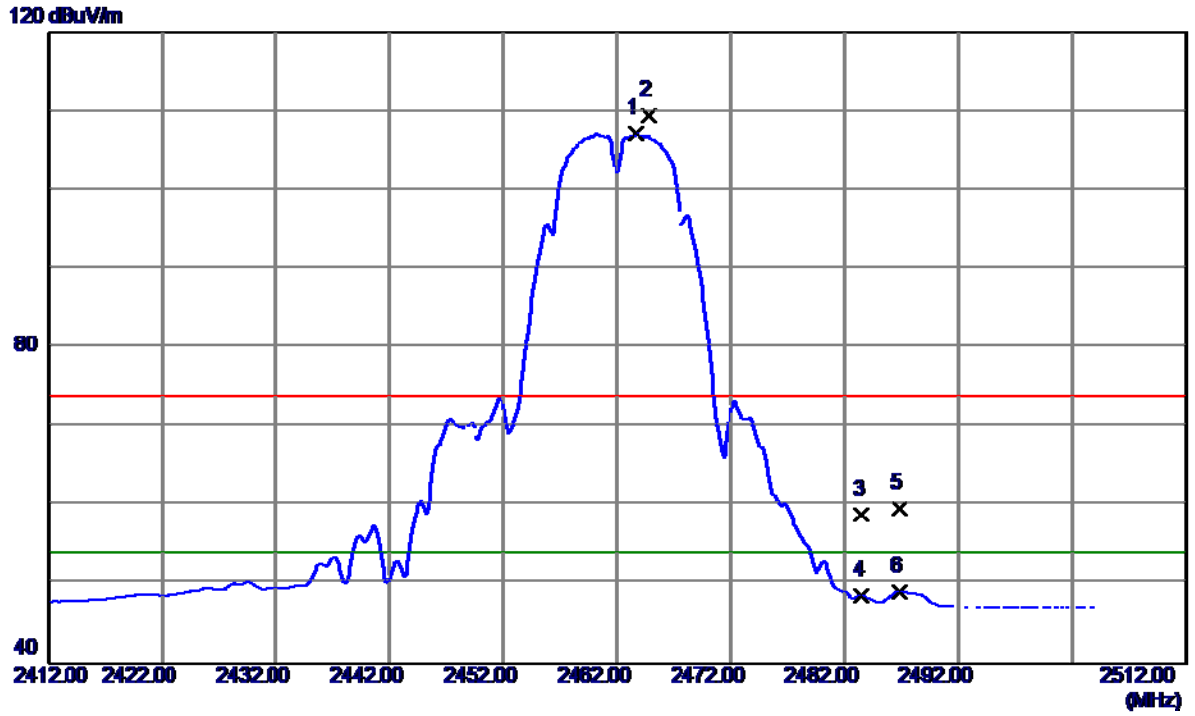
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.8800	42.82	0.05	42.87	74.00	-31.13	Peak	
2	4874.0000	36.11	0.05	36.16	54.00	-17.84	AVG	

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

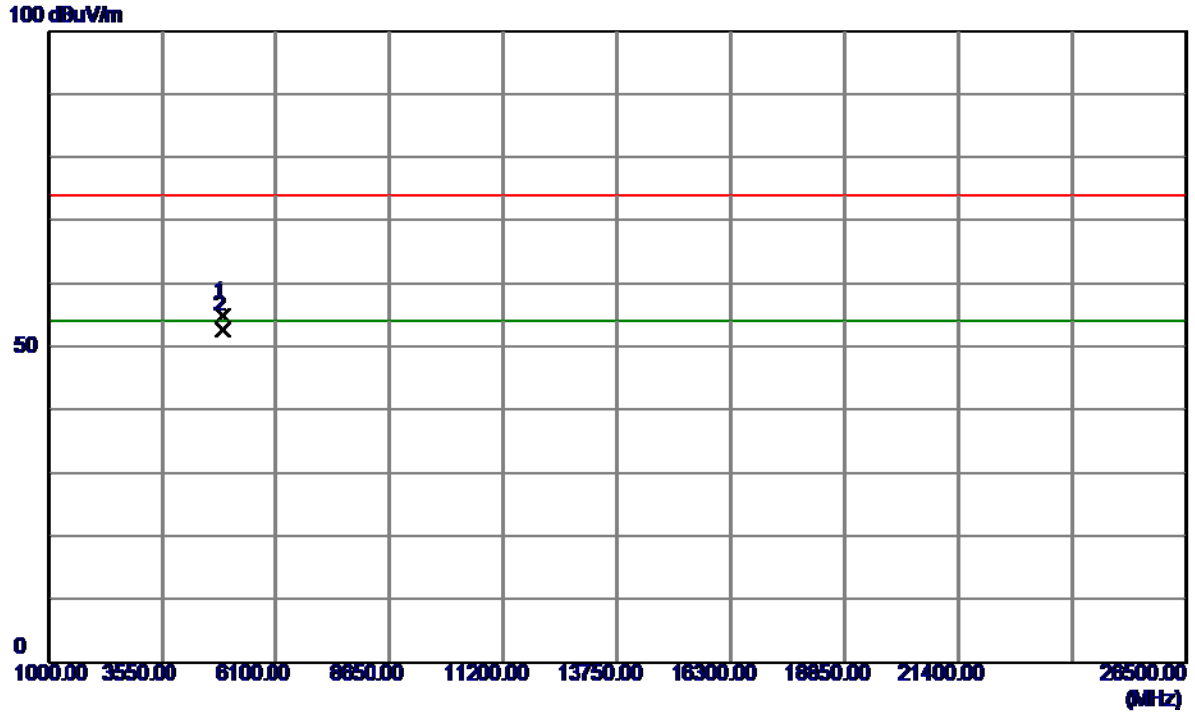
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2463.7000	74.39	32.78	107.17	54.00	53.17	AVG	No Limit
2	2464.8000	76.61	32.78	109.39	74.00	35.39	Peak	No Limit
3	2483.5000	26.05	32.81	58.86	74.00	-15.14	Peak	
4	2483.5000	15.86	32.81	48.67	54.00	-5.33	AVG	
5	2486.9000	26.93	32.81	59.74	74.00	-14.26	Peak	
6	2486.9000	16.37	32.81	49.18	54.00	-4.82	AVG	

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

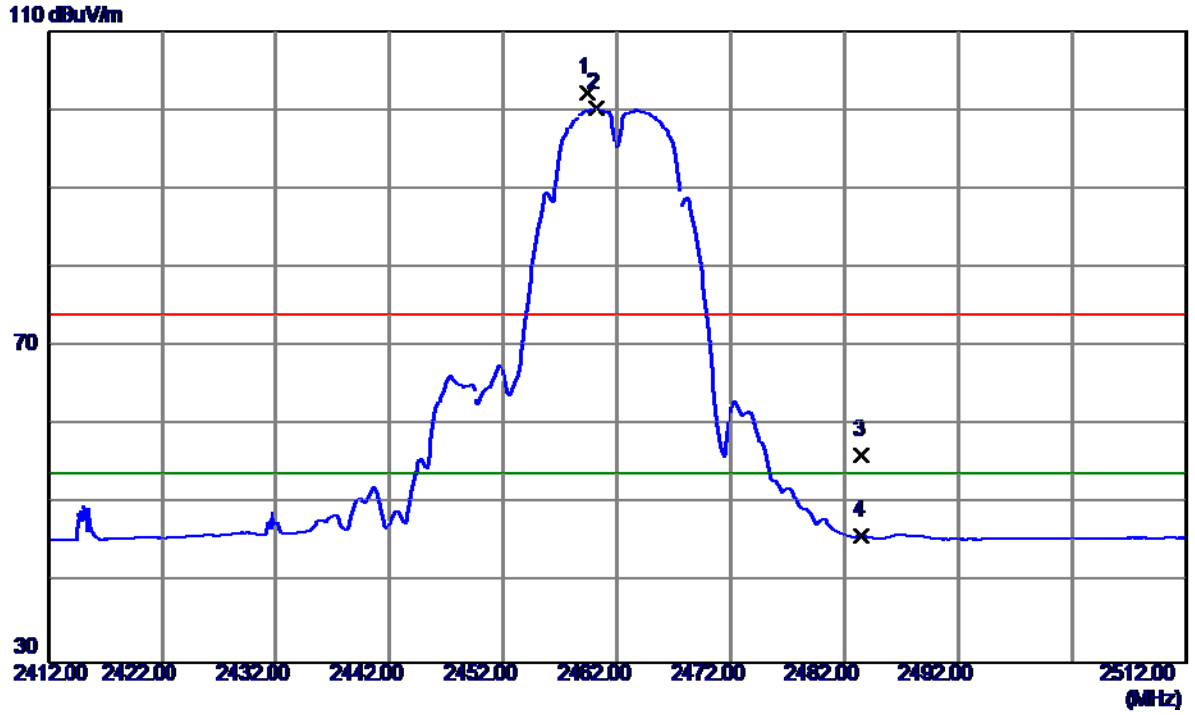
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9600	54.60	0.16	54.76	74.00	-19.24	Peak	
2	4923.9600	52.41	0.16	52.57	54.00	-1.43	AVG	

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

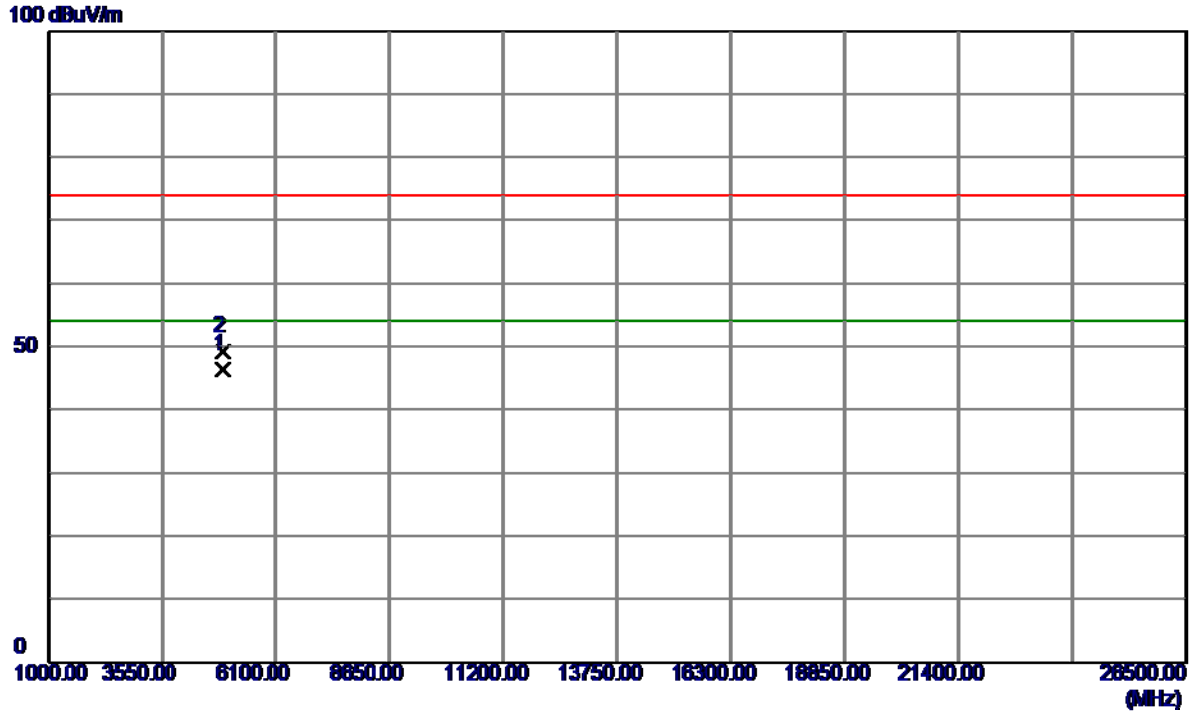
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2459.4000	69.41	32.77	102.18	74.00	28.18	Peak	No Limit
2	2460.2000	67.48	32.78	100.26	54.00	46.26	AVG	No Limit
3	2483.5000	23.48	32.81	56.29	74.00	-17.71	Peak	
4	2483.5000	13.24	32.81	46.05	54.00	-7.95	AVG	

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

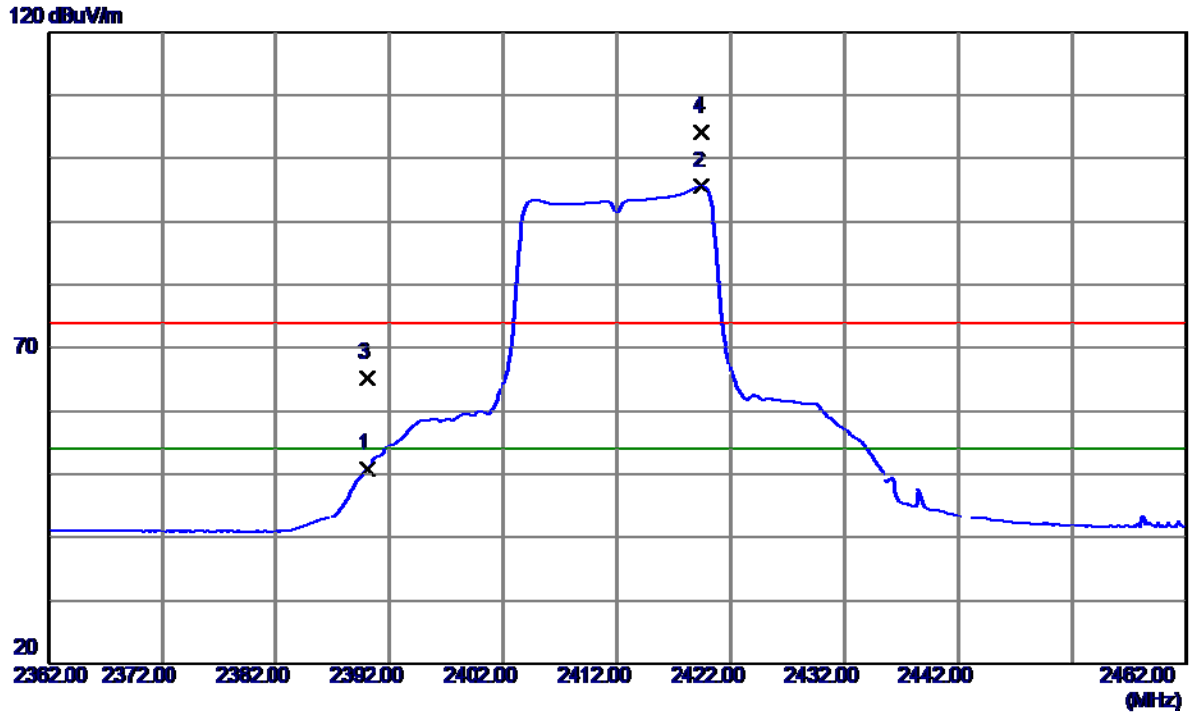
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9800	46.18	0.16	46.34	54.00	-7.66	AVG	
2	4924.0200	49.04	0.16	49.20	74.00	-24.80	Peak	

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

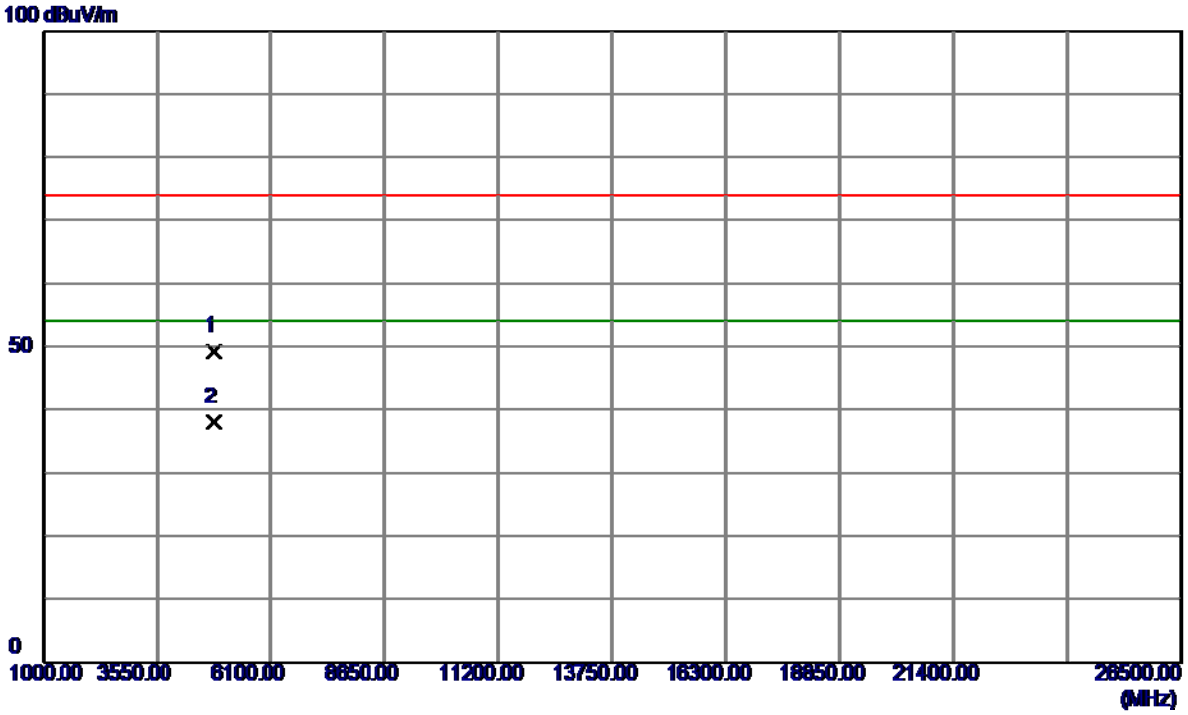
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	21.98	28.91	50.89	54.00	-3.11	AVG	
2	2419.5000	66.64	28.94	95.58	54.00	41.58	AVG	No Limit
3	2390.0000	36.26	28.91	65.17	74.00	-8.83	Peak	
4	2419.5000	75.21	28.94	104.15	74.00	30.15	Peak	No Limit

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

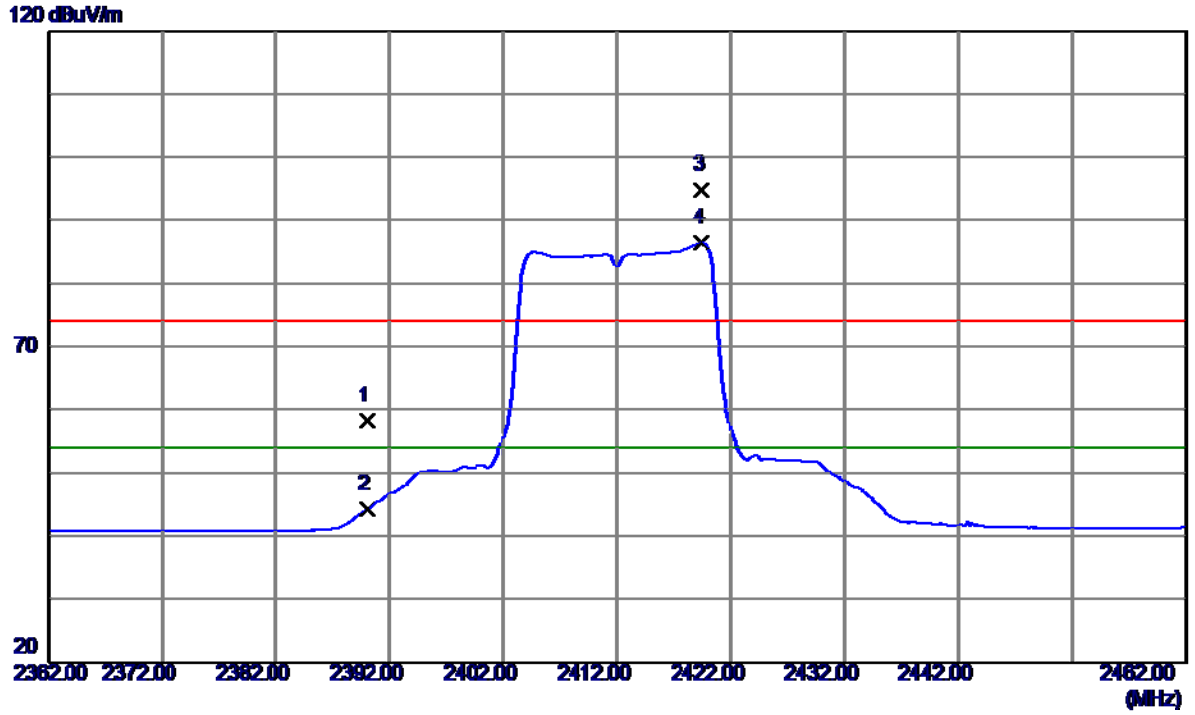
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4822.1000	49.25	-0.07	49.18	74.00	-24.82	Peak	
2	4823.9000	37.98	-0.07	37.91	54.00	-16.09	AVG	

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

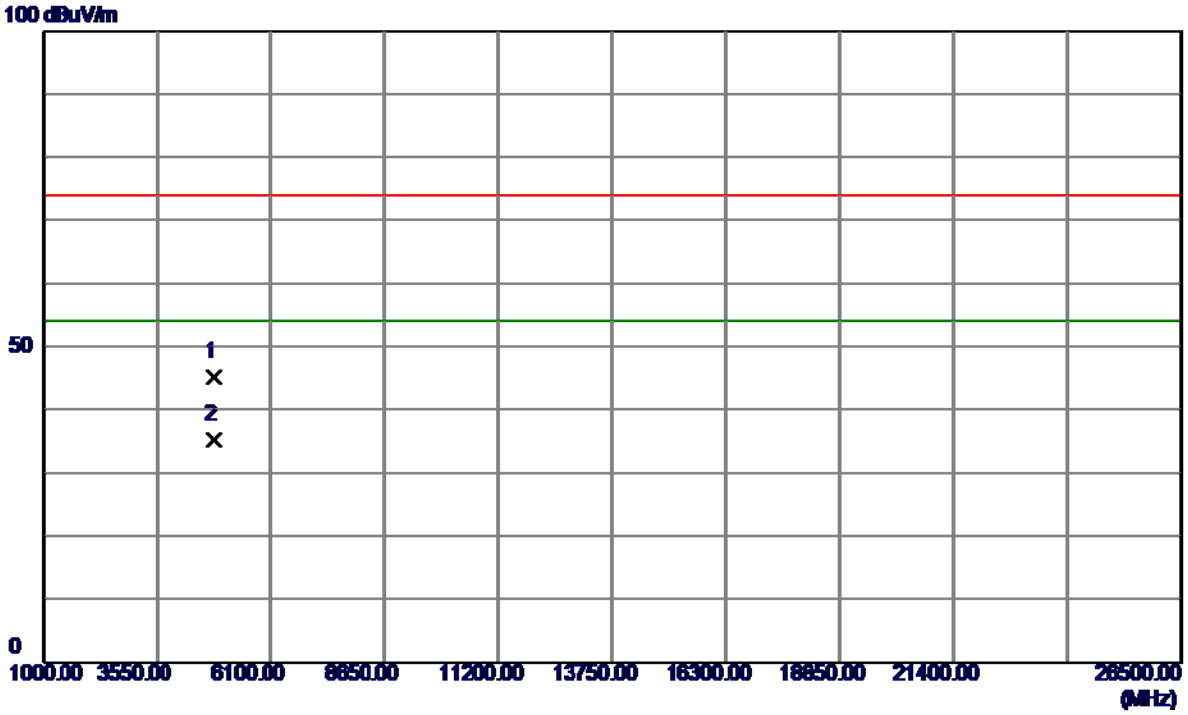
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	29.29	28.91	58.20	74.00	-15.80	Peak	
2	2390.0000	15.29	28.91	44.20	54.00	-9.80	AVG	
3	2419.5000	65.94	28.94	94.88	74.00	20.88	Peak	No Limit
4	2419.5000	57.41	28.94	86.35	54.00	32.35	AVG	No Limit

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

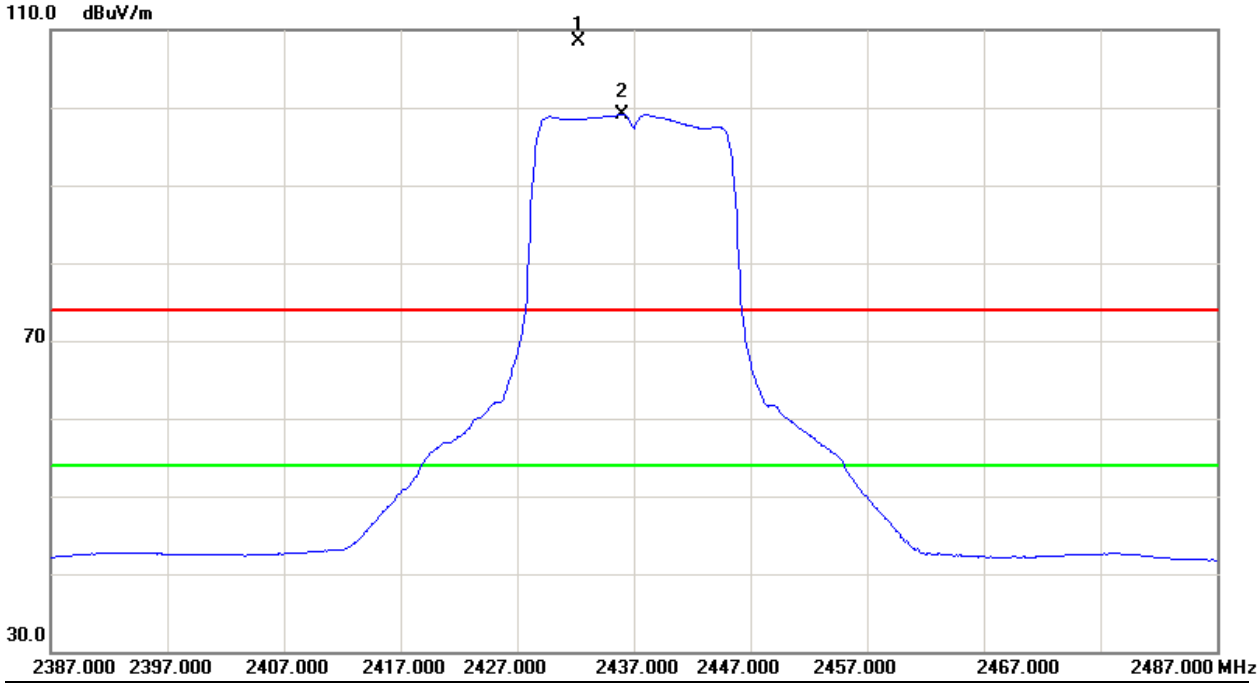
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4823.6000	45.34	-0.07	45.27	74.00	-28.73	Peak	
2	4823.8000	35.20	-0.07	35.13	54.00	-18.87	AVG	

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

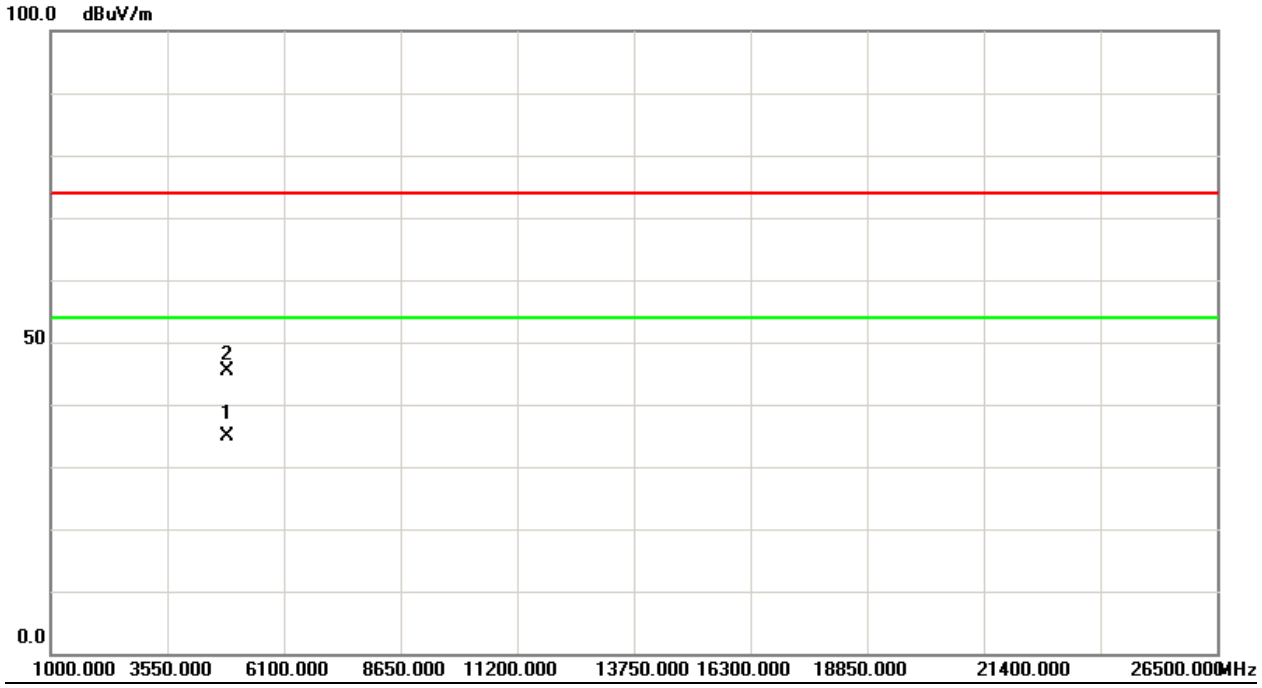
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2432.2000	69.52	32.74	102.26	74.00	28.26	Peak	No Limit
2	2438.1000	59.87	32.74	92.61	54.00	38.61	AVG	No Limit

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

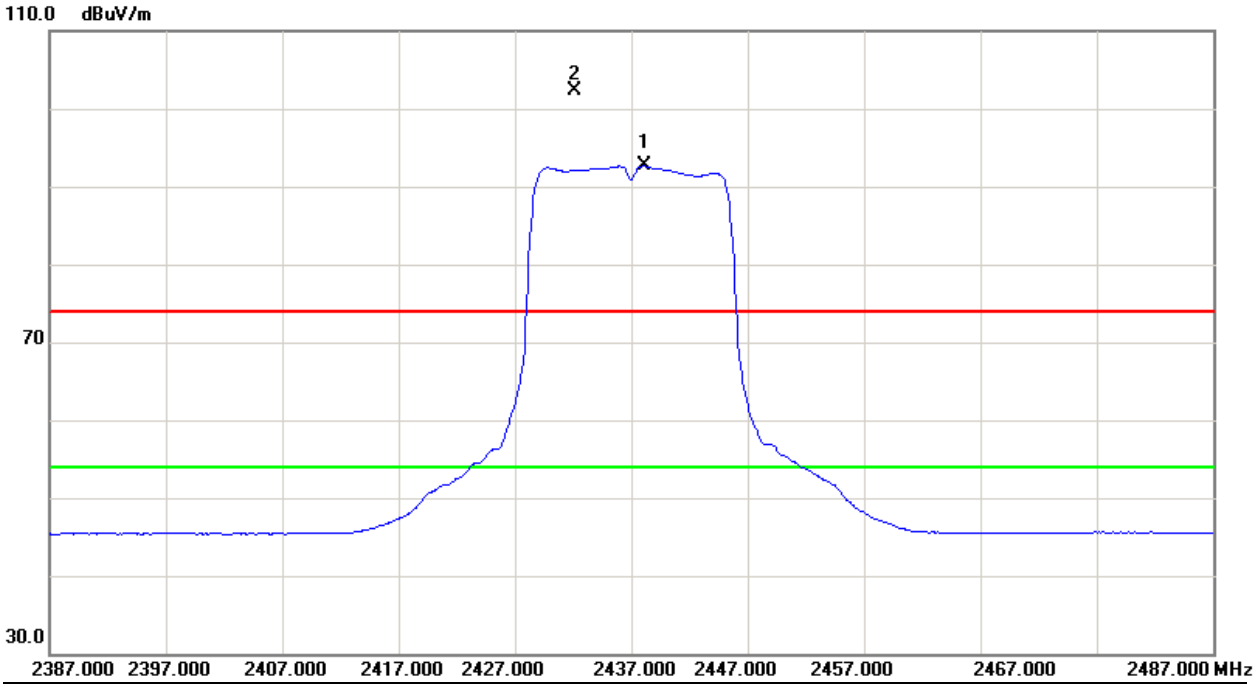
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4873.8000	34.85	0.05	34.90	54.00	--19.10	AVG	
2	4873.9000	45.38	0.05	45.43	74.00	-28.57	AVG	

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

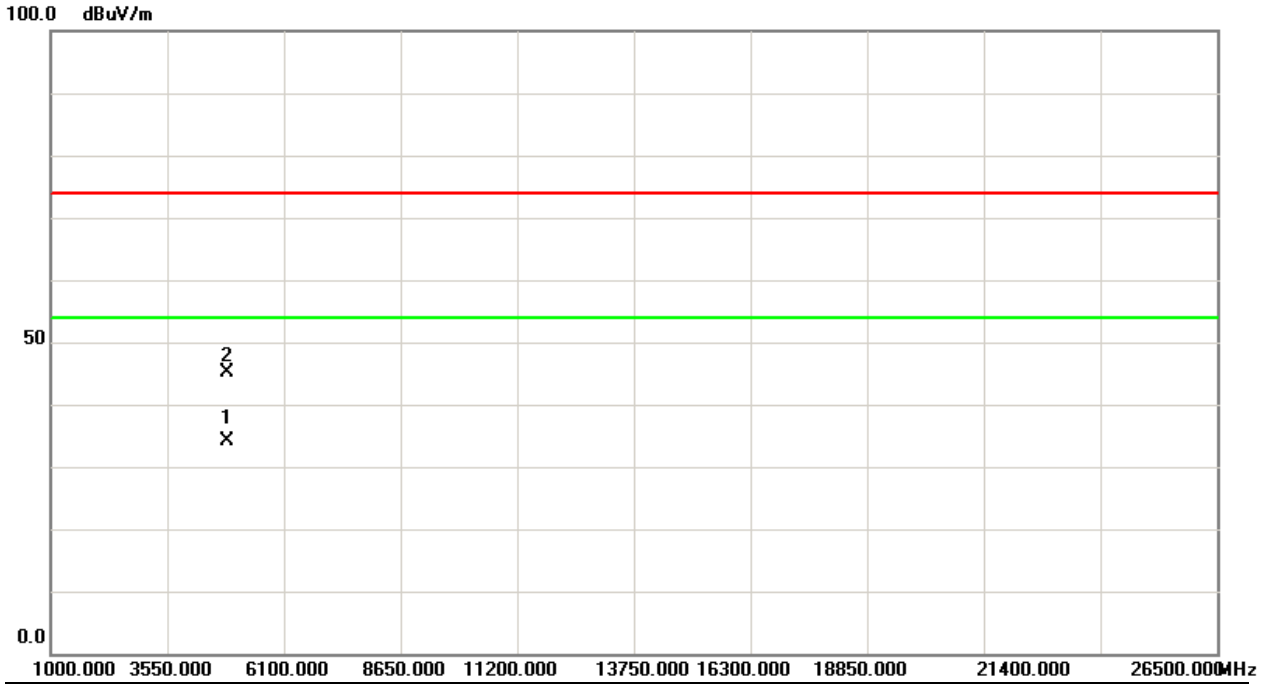
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2438.1000	59.87	32.74	92.61	54.00	38.61	AVG	No Limit
2	2432.2000	69.52	32.74	102.26	74.00	28.26	Peak	No Limit

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

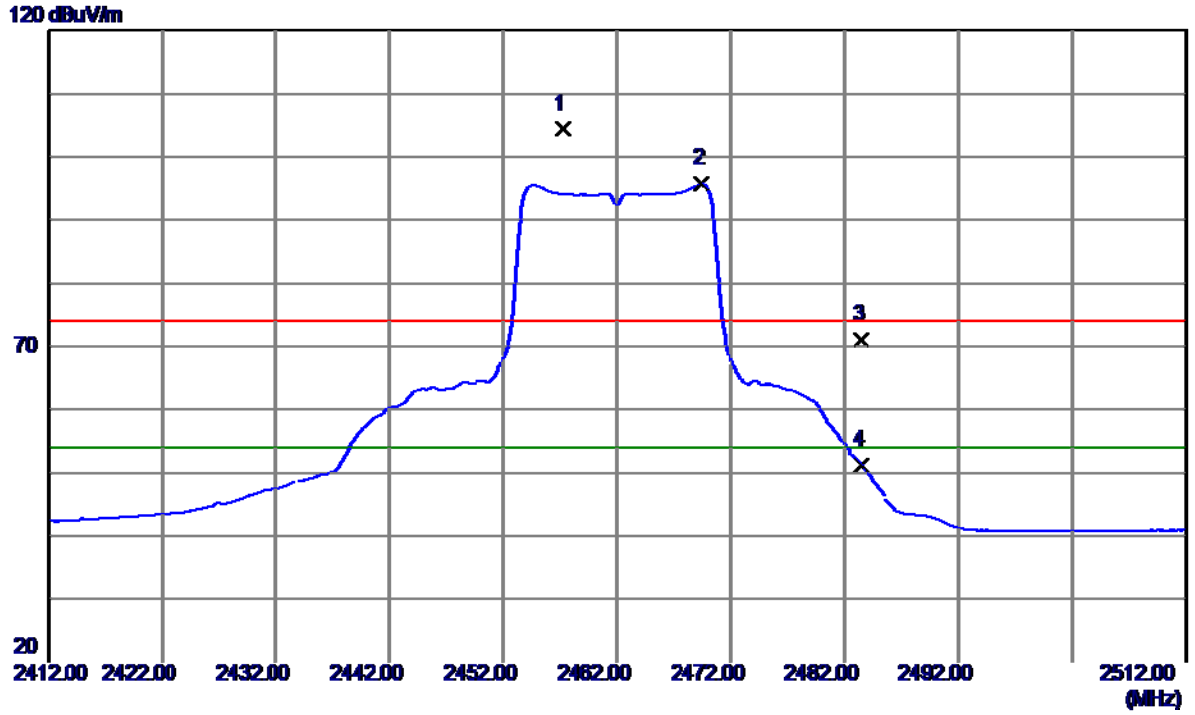
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4874.6000	45.18	0.05	45.23	74.00	-28.77	Peak	
2	4873.8000	34.18	0.05	34.23	54.00	-19.77	AVG	

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

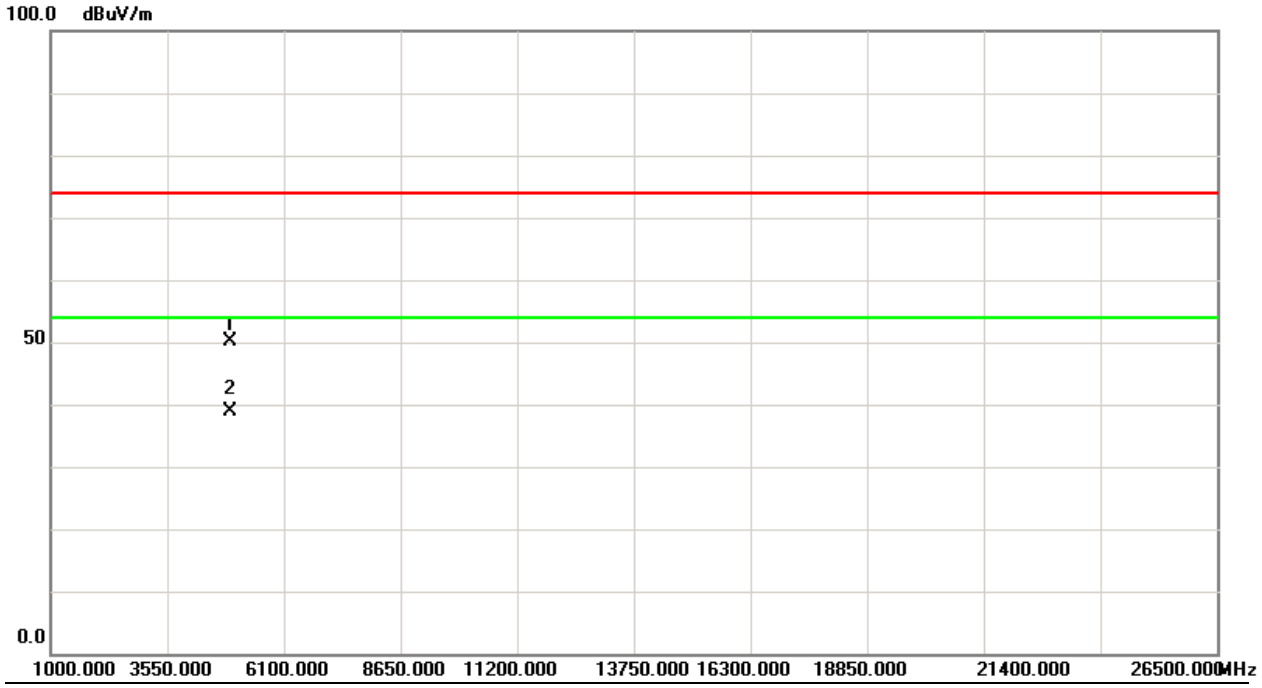
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2457.2000	75.43	28.97	104.40	74.00	30.40	Peak	No Limit
2	2469.5000	66.74	28.98	95.72	54.00	41.72	AVG	No Limit
3	2483.5000	41.92	28.99	70.91	74.00	-3.09	Peak	
4	2483.5000	22.21	28.99	51.20	54.00	-2.80	AVG	

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

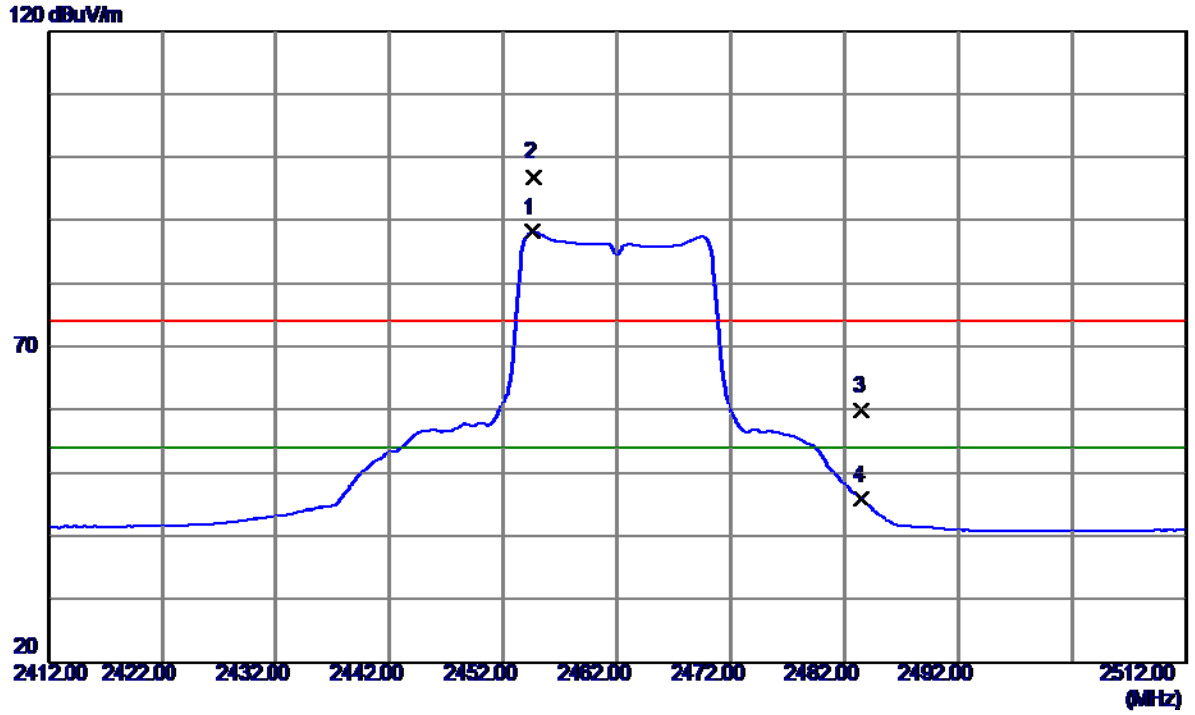
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4923.9000	49.94	0.17	50.11	74.00	-23.89	Peak	
2	4925.9000	38.73	0.17	38.90	54.00	-15.10	AVG	

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

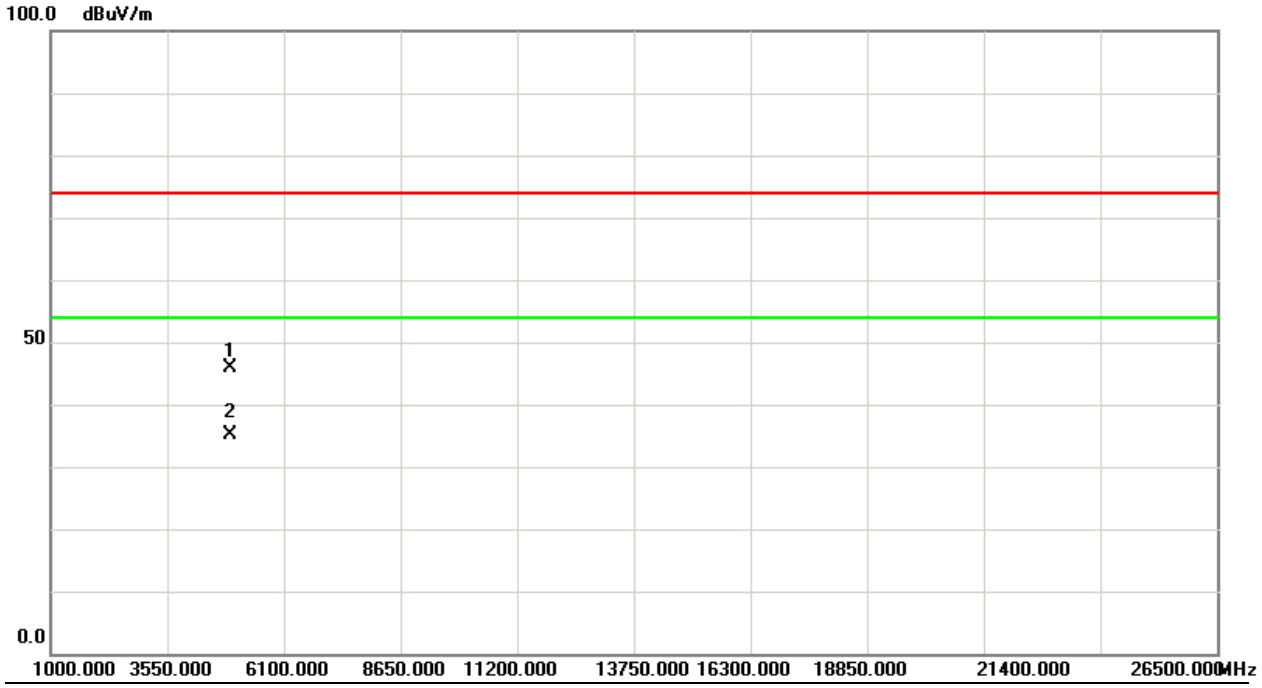
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2454.6000	59.14	28.96	88.10	54.00	34.10	AVG	No Limit
2	2454.7000	67.79	28.96	96.75	74.00	22.75	Peak	No Limit
3	2483.5000	30.86	28.99	59.85	74.00	-14.15	Peak	
4	2483.5000	16.71	28.99	45.70	54.00	-8.30	AVG	

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

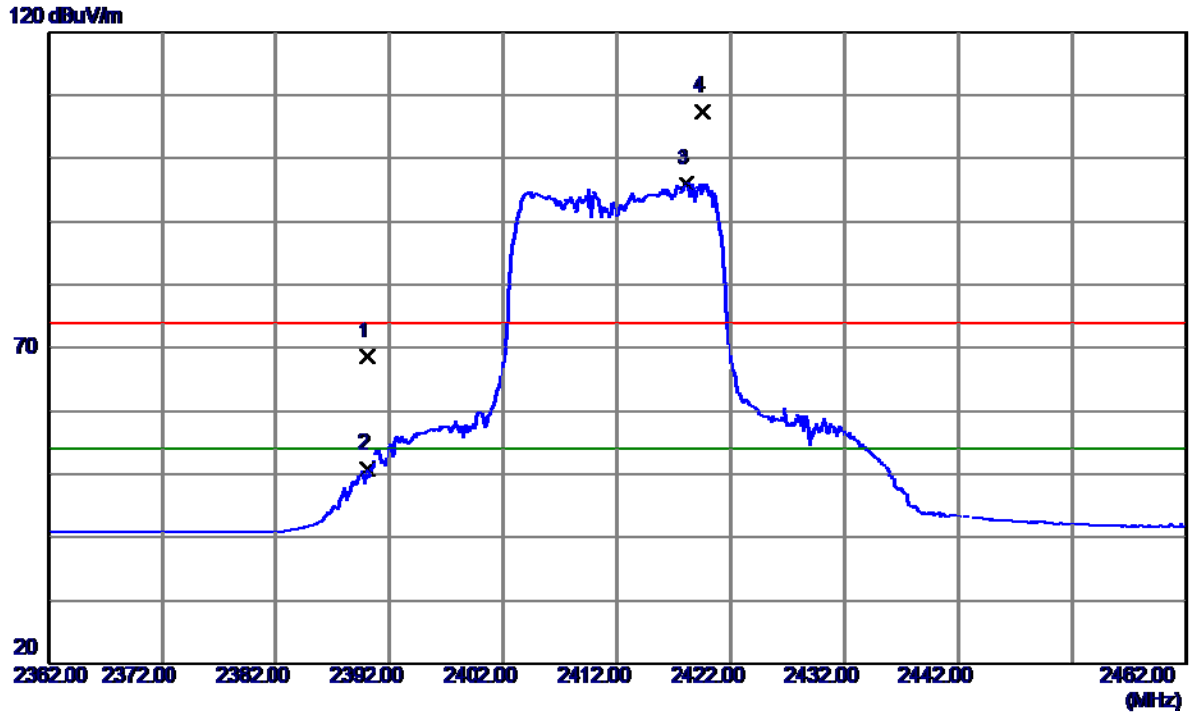
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	45.80	0.17	45.97	74.00	-28.03	Peak	
2	4924.1000	34.95	0.17	35.12	54.00	-18.88	AVG	

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

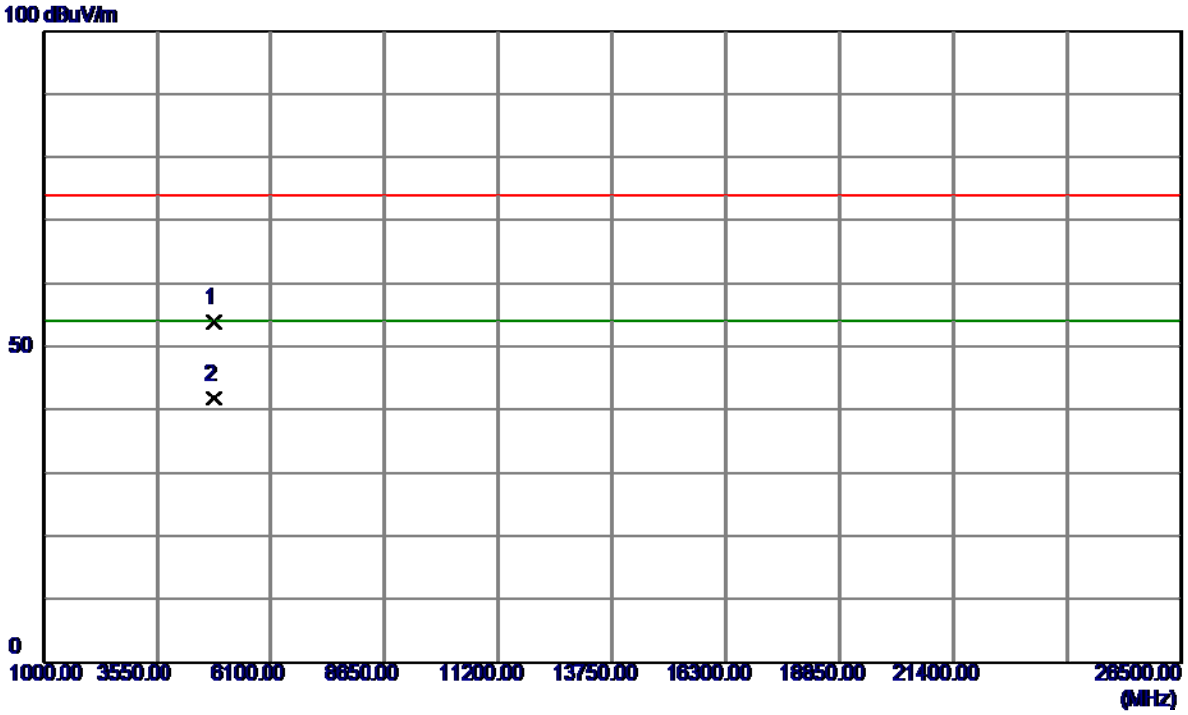
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	39.69	28.91	68.60	74.00	-5.40	Peak	
2	2390.0000	21.82	28.91	50.73	54.00	-3.27	AVG	
3	2418.1000	67.15	28.93	96.08	54.00	42.08	AVG	No Limit
4	2419.6000	78.39	28.94	107.33	74.00	33.33	Peak	No Limit

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

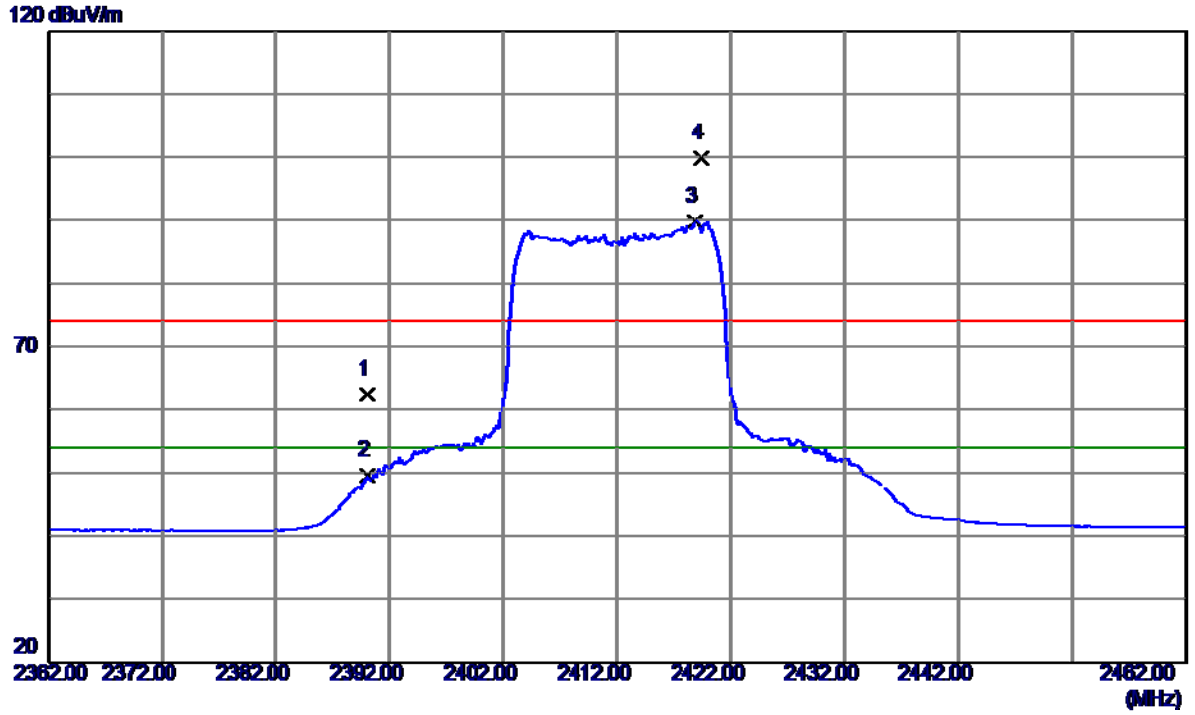
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4821.3000	53.93	-0.08	53.85	74.00	-20.15	Peak	
2	4823.8000	41.77	-0.07	41.70	54.00	-12.30	AVG	

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

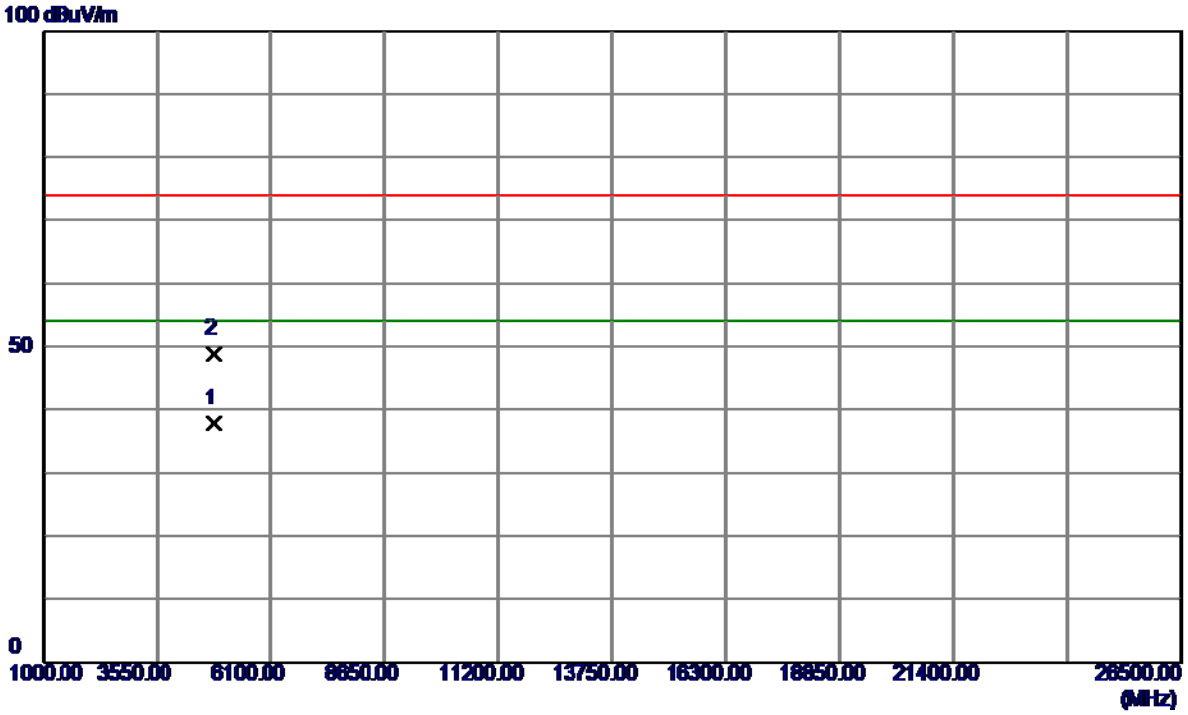
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	33.53	28.91	62.44	74.00	-11.56	Peak	
2	2390.0000	20.70	28.91	49.61	54.00	-4.39	AVG	
3	2418.9000	60.81	28.94	89.75	54.00	35.75	AVG	No Limit
4	2419.4000	70.78	28.94	99.72	74.00	25.72	Peak	No Limit

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

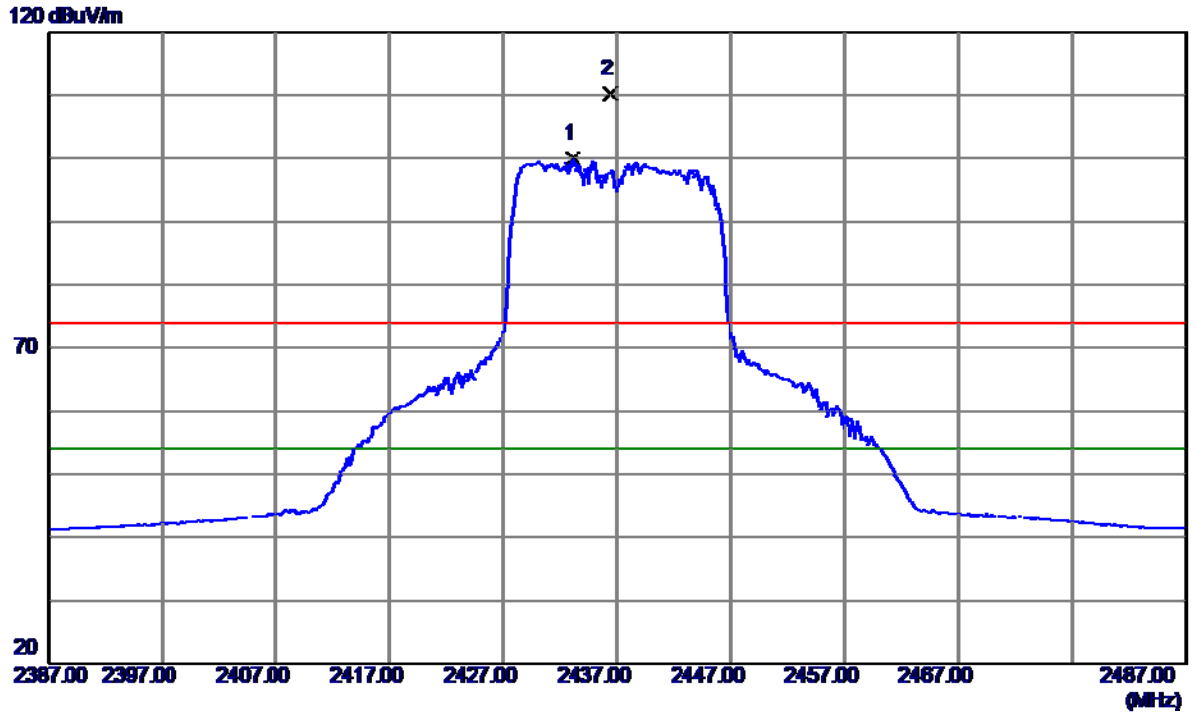
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4830.0000	37.87	-0.06	37.81	54.00	-16.19	AVG	
2	4831.0000	48.84	-0.05	48.79	74.00	-25.21	Peak	

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

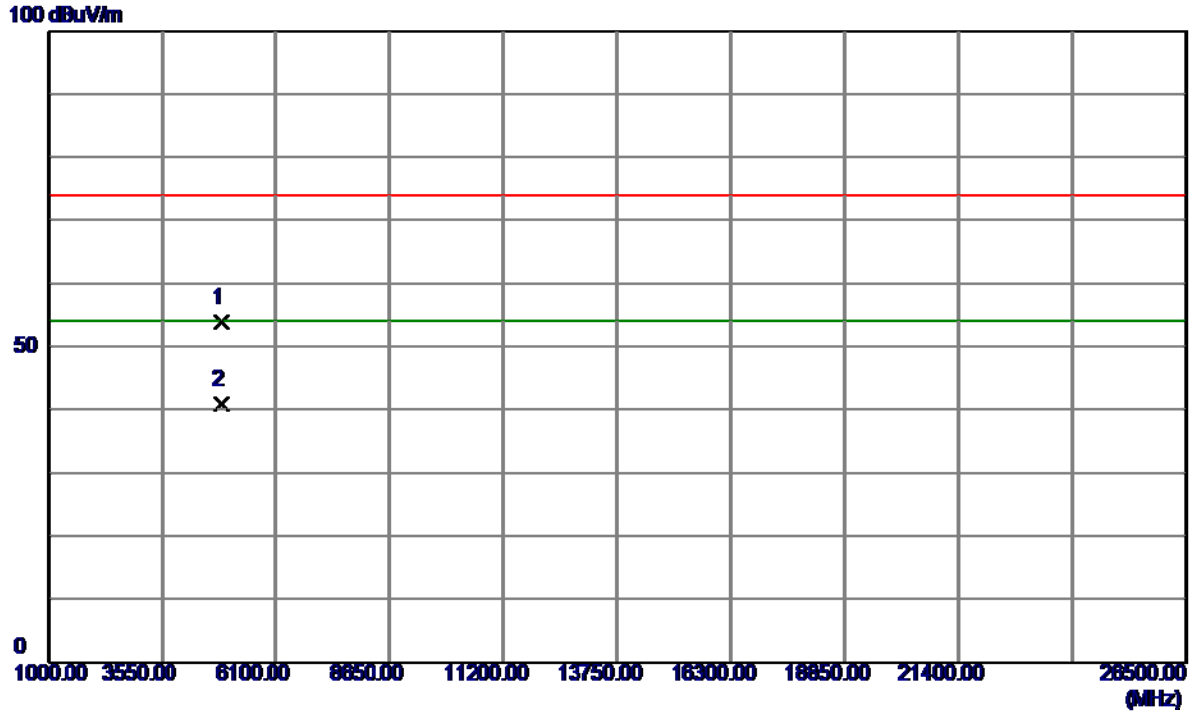
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2433.1000	71.03	28.95	99.98	54.00	45.98	AVG	No Limit
2	2436.4000	81.21	28.95	110.16	74.00	36.16	Peak	No Limit

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

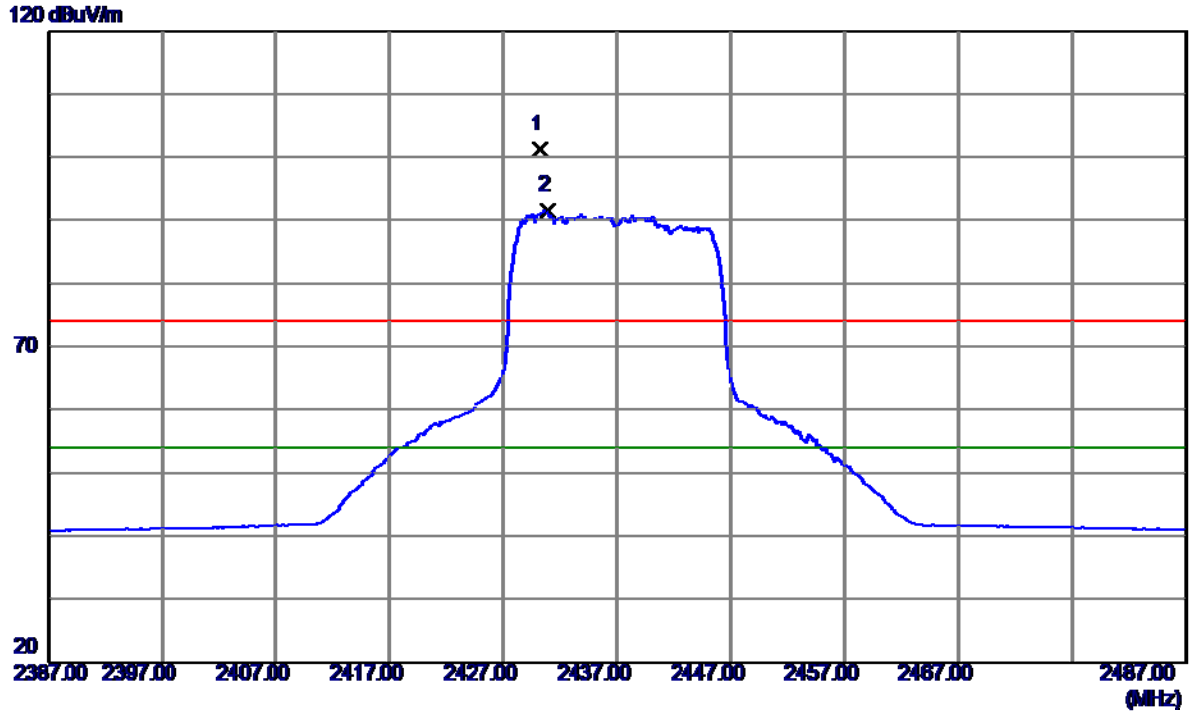
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4871.4000	53.75	0.04	53.79	74.00	-20.21	Peak	
2	4873.0000	40.67	0.04	40.71	54.00	-13.29	AVG	

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

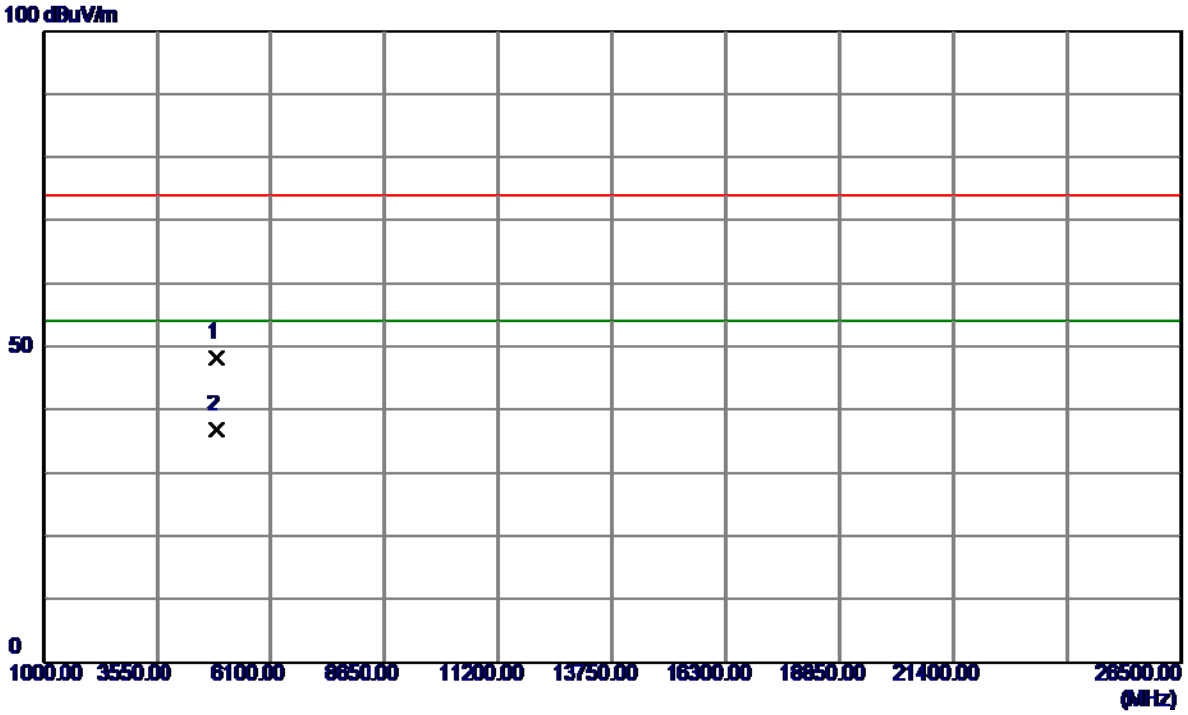
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2430.2000	72.31	28.94	101.25	74.00	27.25	Peak	No Limit
2	2430.9000	62.68	28.94	91.62	54.00	37.62	AVG	No Limit

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

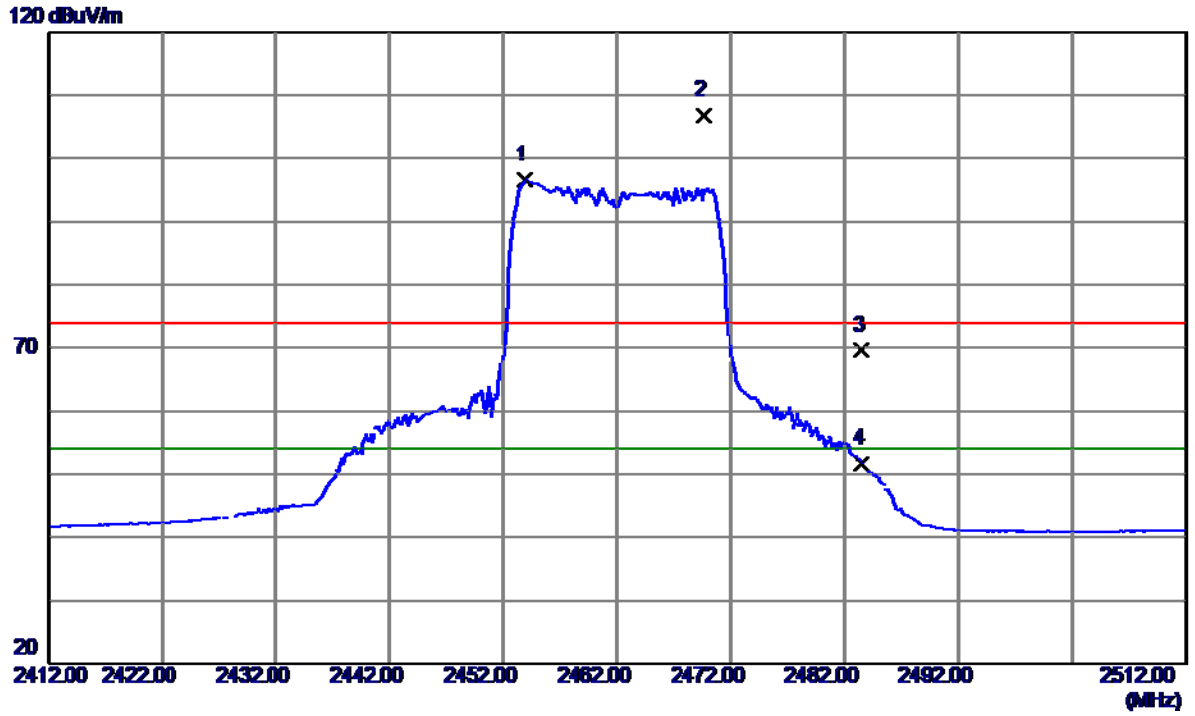
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4879.9000	48.13	0.06	48.19	74.00	-25.81	Peak	
2	4879.9000	36.69	0.06	36.75	54.00	-17.25	AVG	

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

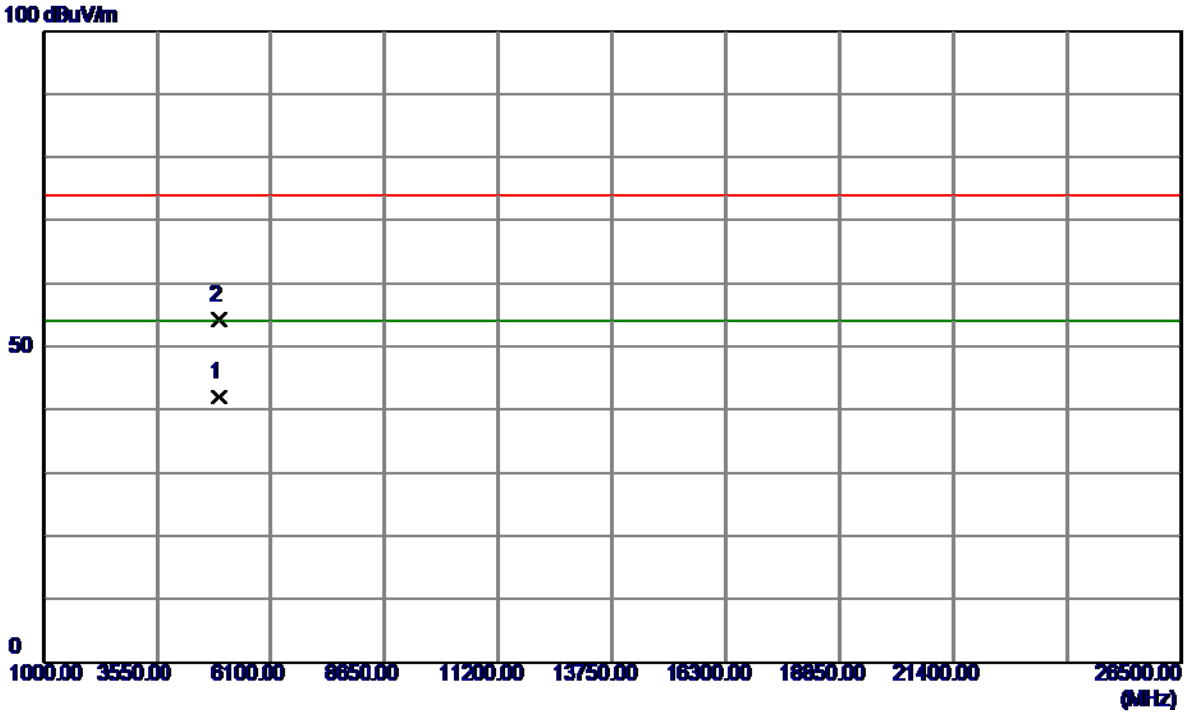
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2453.9000	67.62	28.96	96.58	54.00	42.58	AVG	No Limit
2	2469.7000	77.75	28.98	106.73	74.00	32.73	Peak	No Limit
3	2483.5000	40.69	28.99	69.68	74.00	-4.32	Peak	
4	2483.5000	22.57	28.99	51.56	54.00	-2.44	AVG	

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

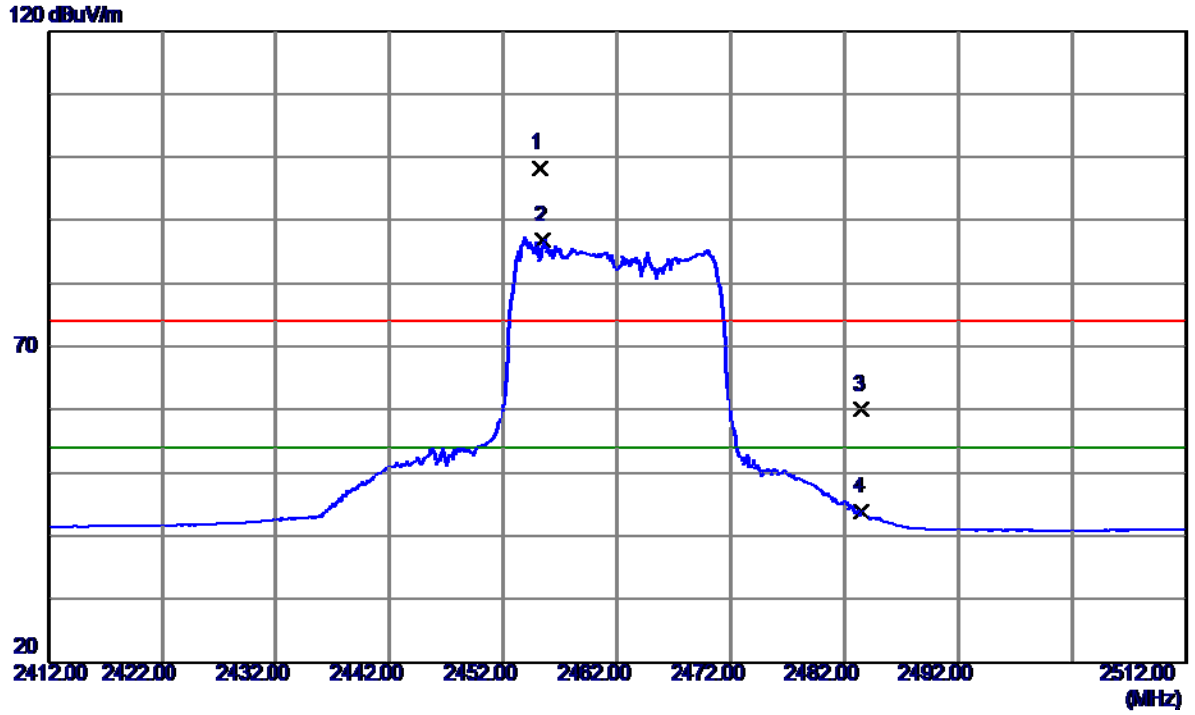
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4929.9000	41.89	0.18	42.07	54.00	-11.93	AVG	
2	4931.7000	53.94	0.18	54.12	74.00	-19.88	Peak	

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

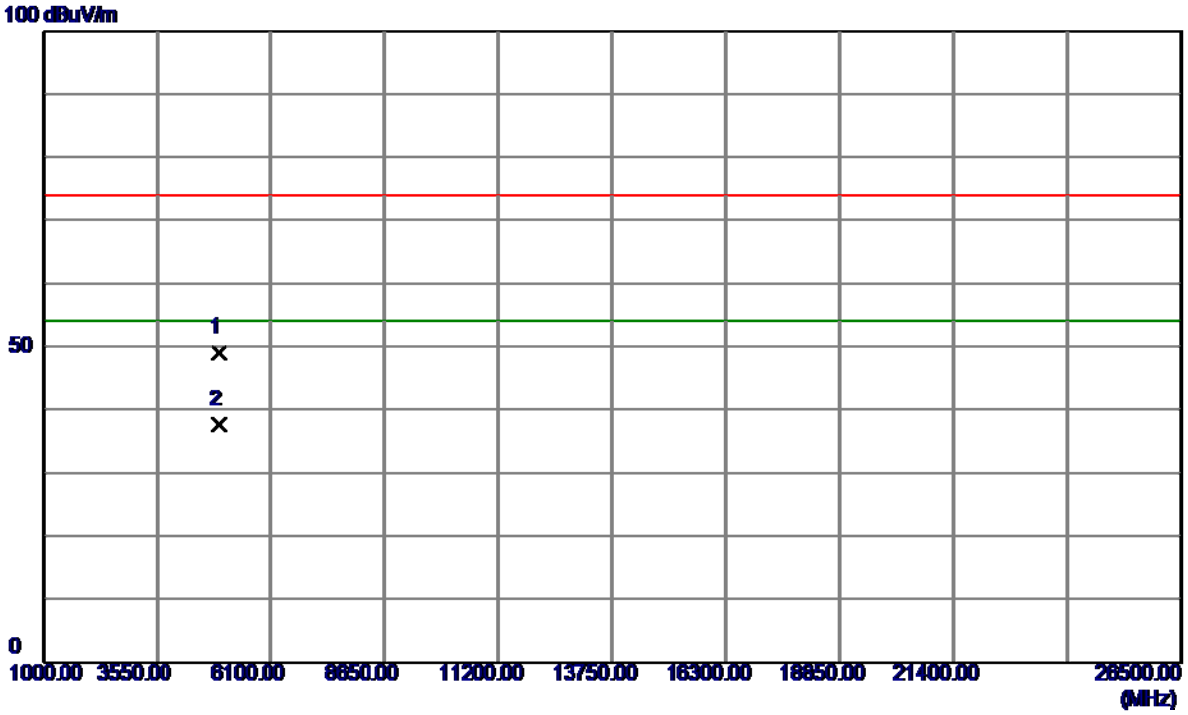
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2455.2000	69.26	28.96	98.22	74.00	24.22	Peak	No Limit
2	2455.5000	57.89	28.96	86.85	54.00	32.85	AVG	No Limit
3	2483.5000	30.96	28.99	59.95	74.00	-14.05	Peak	
4	2483.5000	14.78	28.99	43.77	54.00	-10.23	AVG	

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

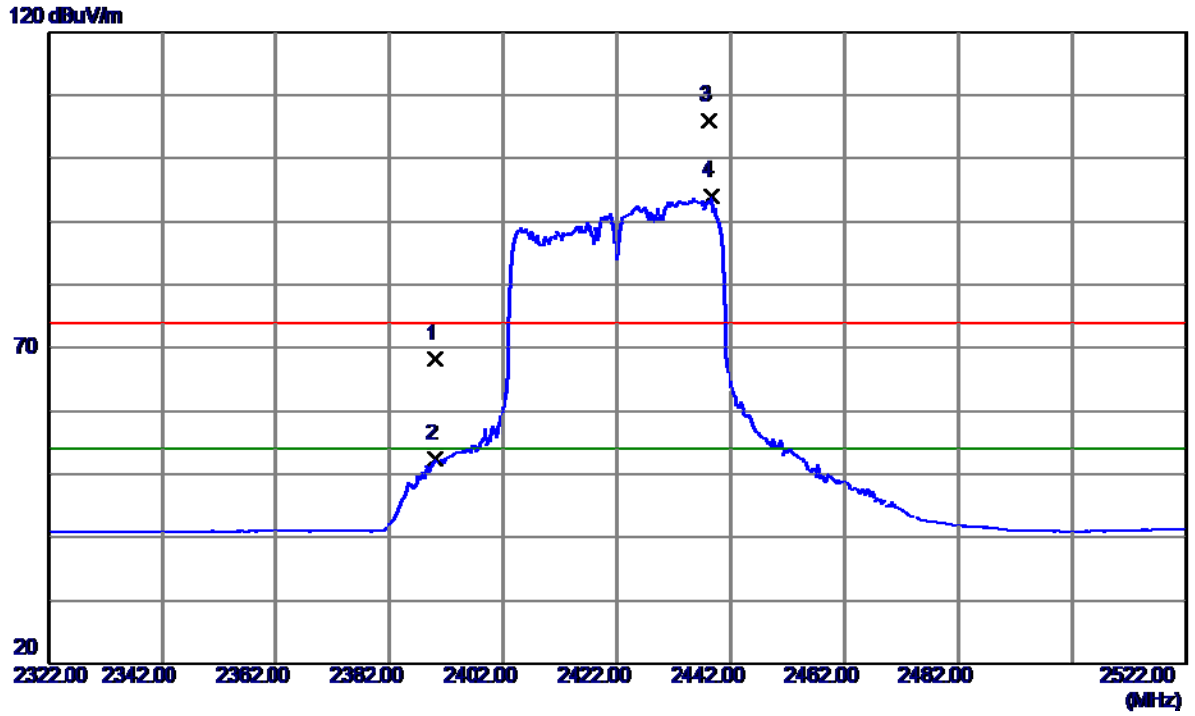
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4929.8000	48.89	0.18	49.07	74.00	-24.93	Peak	
2	4931.4000	37.34	0.18	37.52	54.00	-16.48	AVG	

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

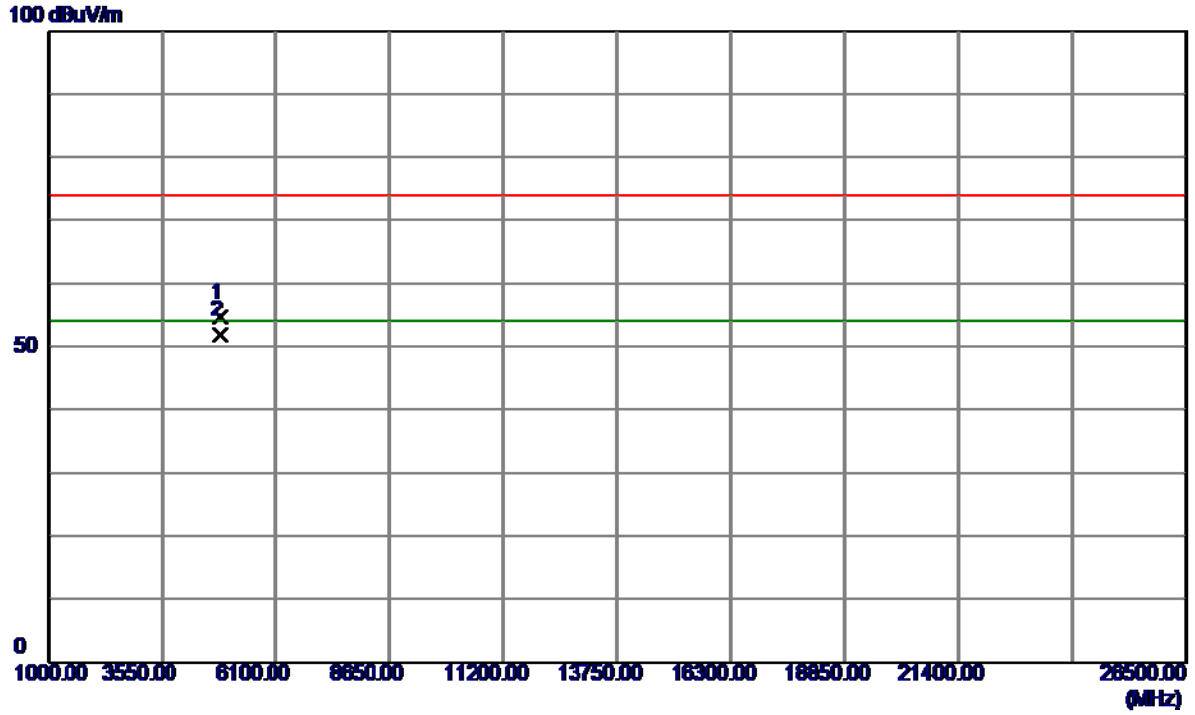
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	39.26	28.91	68.17	74.00	-5.83	Peak	
2	2390.0000	23.40	28.91	52.31	54.00	-1.69	AVG	
3	2438.2000	77.12	28.95	106.07	74.00	32.07	Peak	No Limit
4	2438.6000	65.14	28.95	94.09	54.00	40.09	AVG	No Limit

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

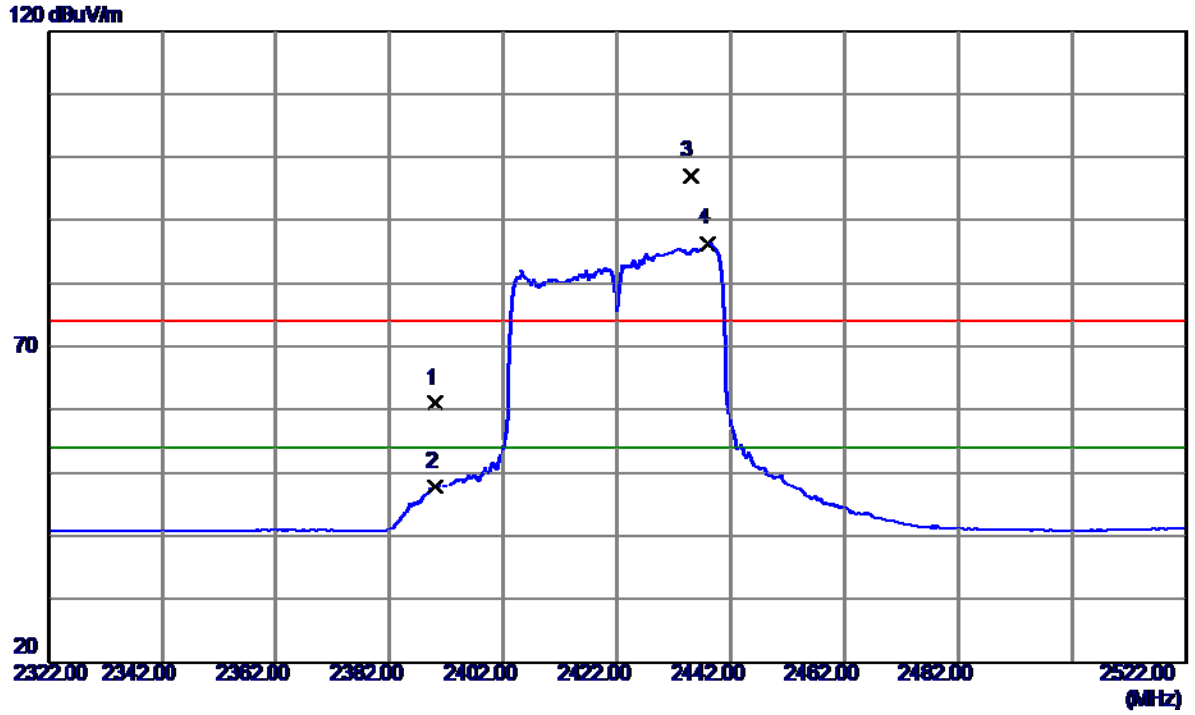
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.0200	54.70	-0.03	54.67	74.00	-19.33	Peak	
2	4843.9800	51.78	-0.02	51.76	54.00	-2.24	AVG	

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

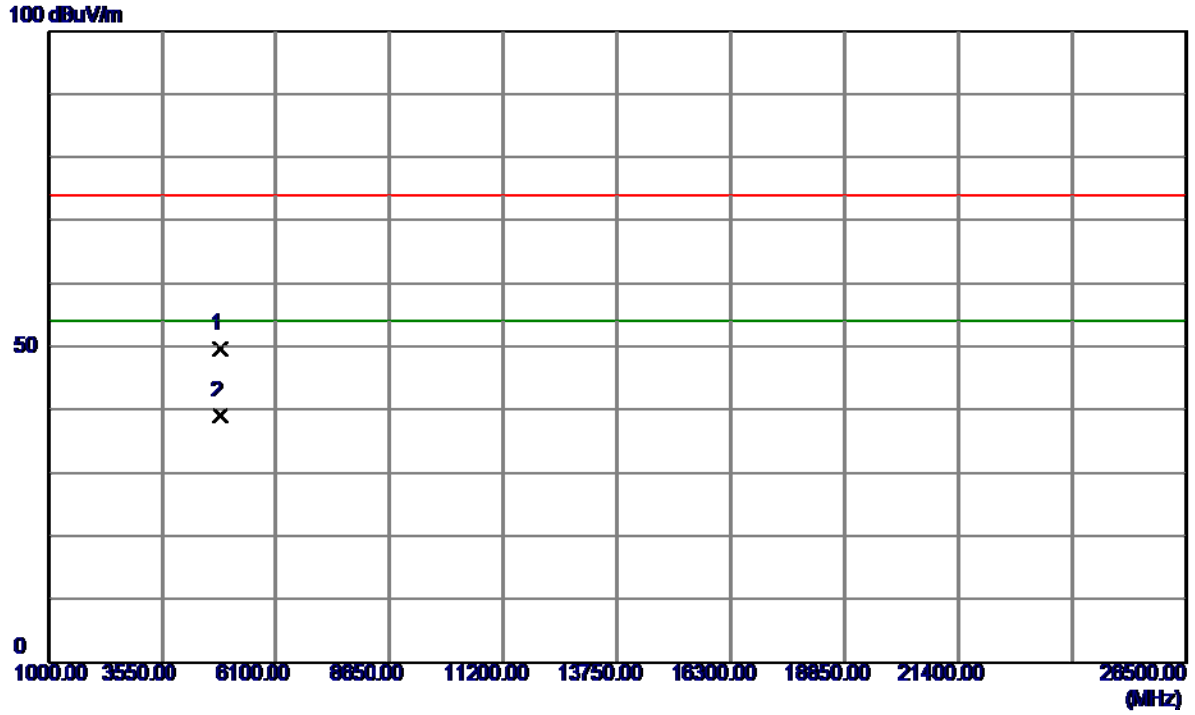
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	32.04	28.91	60.95	74.00	-13.05	Peak	
2	2390.0000	18.82	28.91	47.73	54.00	-6.27	AVG	
3	2435.0000	67.96	28.95	96.91	74.00	22.91	Peak	No Limit
4	2438.0000	57.35	28.95	86.30	54.00	32.30	AVG	No Limit

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

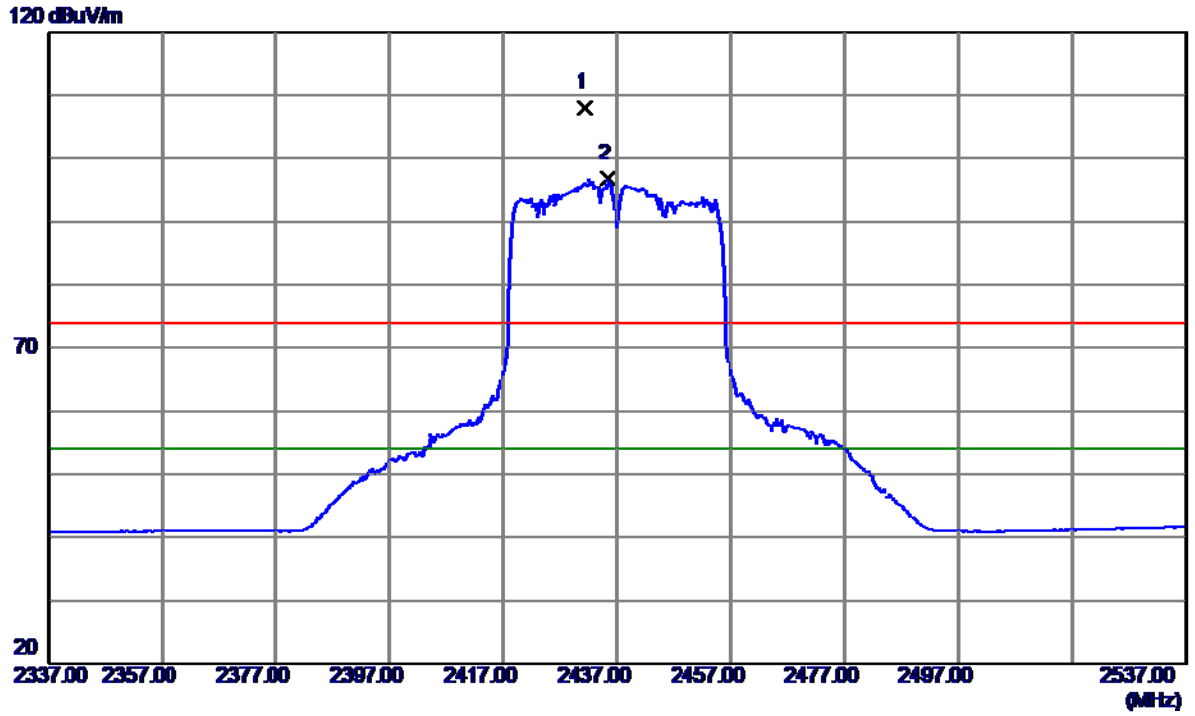
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.1000	49.71	-0.03	49.68	74.00	-24.32	Peak	
2	4843.9000	38.93	-0.02	38.91	54.00	-15.09	AVG	

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

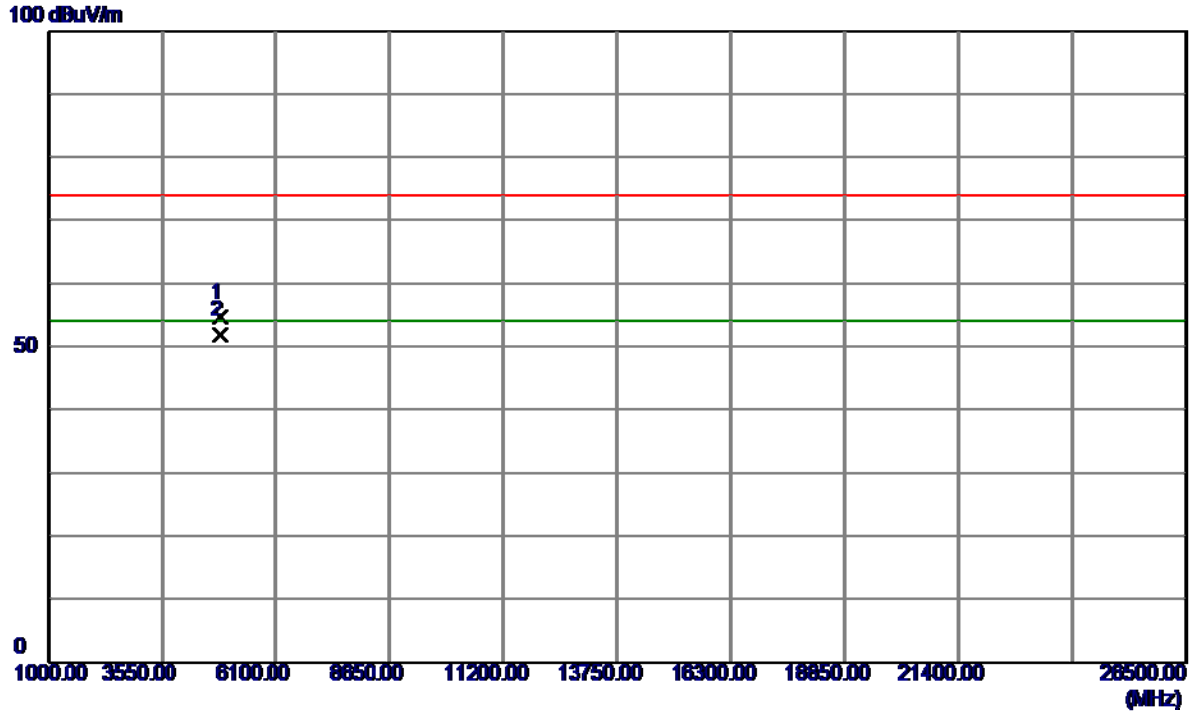
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2431.4000	79.01	28.95	107.96	74.00	33.96	Peak	No Limit
2	2435.4000	67.82	28.95	96.77	54.00	42.77	AVG	No Limit

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

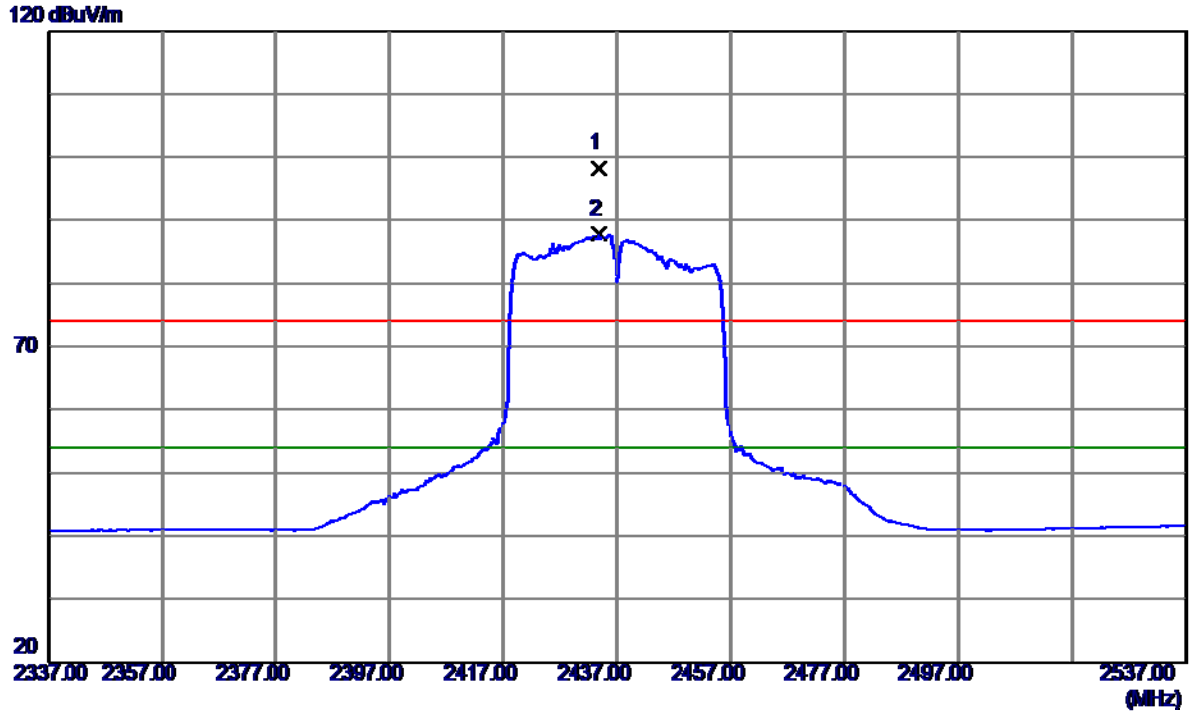
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.0200	54.70	-0.03	54.67	74.00	-19.33	Peak	
2	4843.9800	51.78	-0.02	51.76	54.00	-2.24	AVG	

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

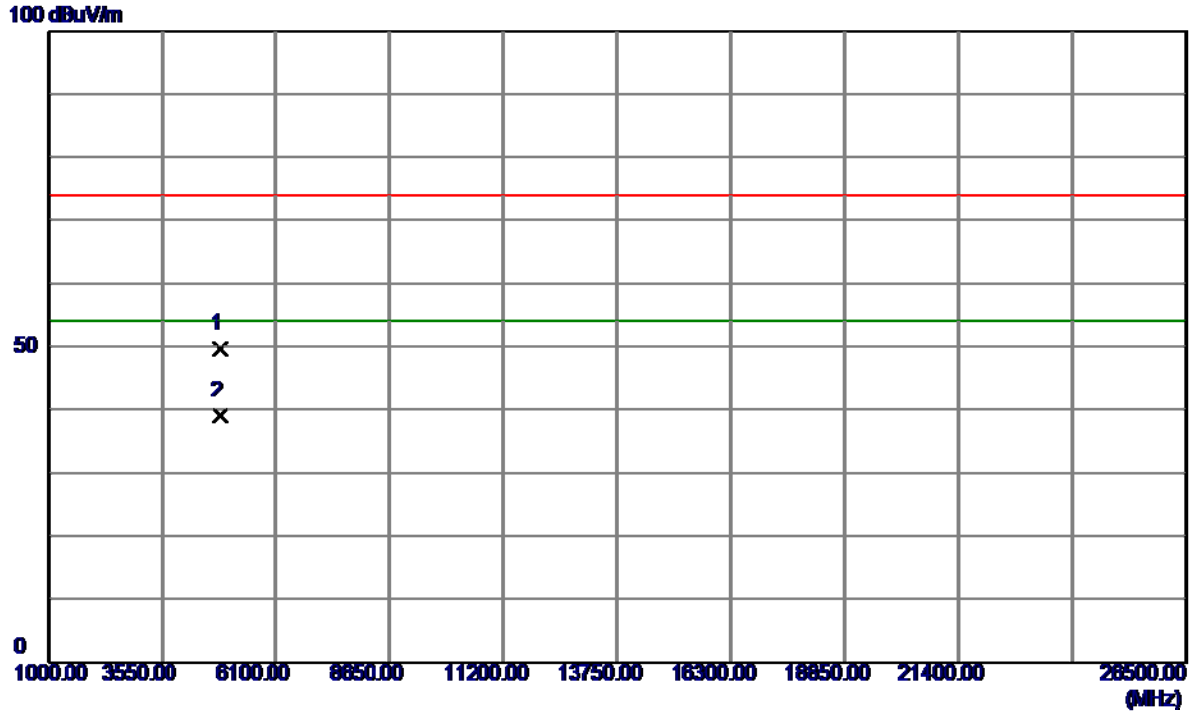
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2433.8000	69.29	28.95	98.24	74.00	24.24	Peak	No Limit
2	2433.8000	58.80	28.95	87.75	54.00	33.75	AVG	No Limit

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

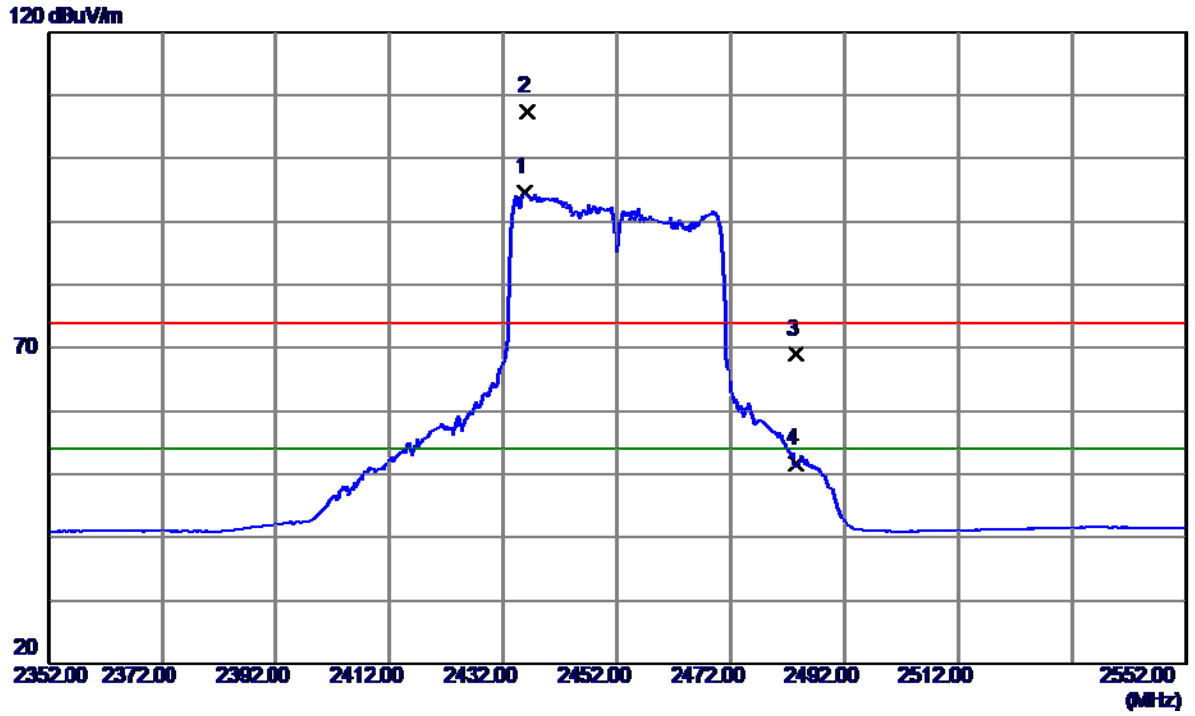
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4843.1000	49.71	-0.03	49.68	74.00	-24.32	Peak	
2	4843.9000	38.93	-0.02	38.91	54.00	-15.09	AVG	

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

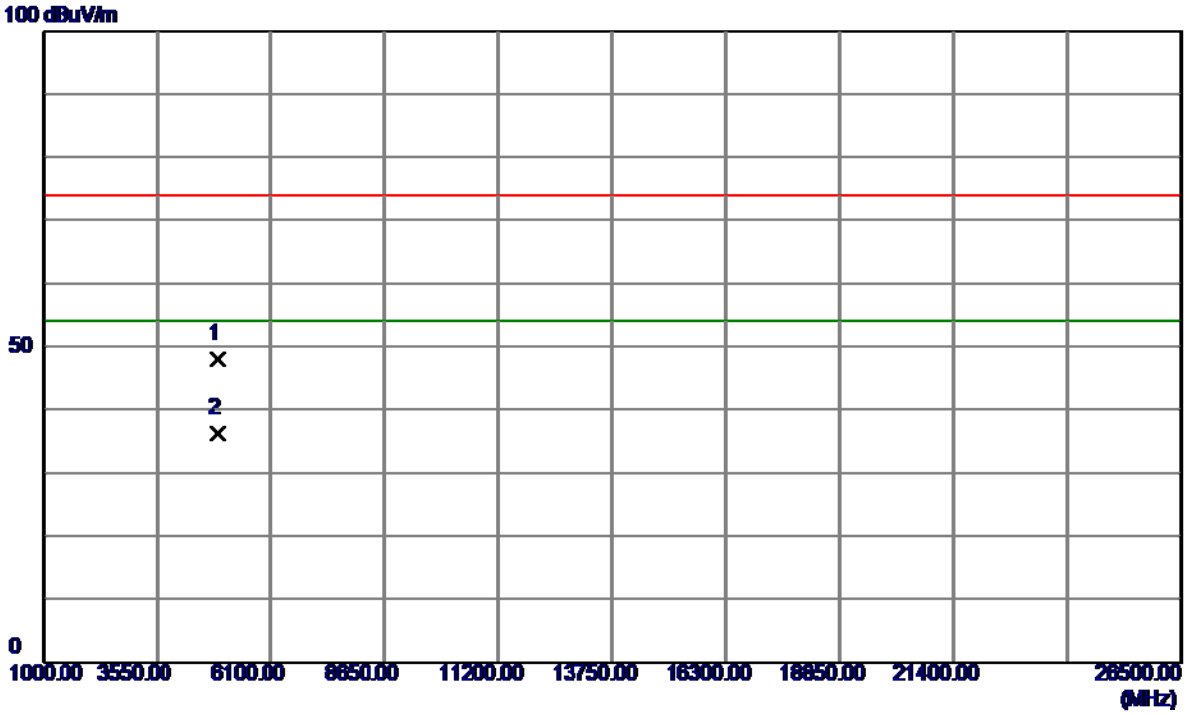
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435.8000	65.62	28.95	94.57	54.00	40.57	AVG	No Limit
2	2436.2000	78.49	28.95	107.44	74.00	33.44	Peak	No Limit
3	2483.5000	40.10	28.99	69.09	74.00	-4.91	Peak	
4	2483.5000	22.55	28.99	51.54	54.00	-2.46	AVG	

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

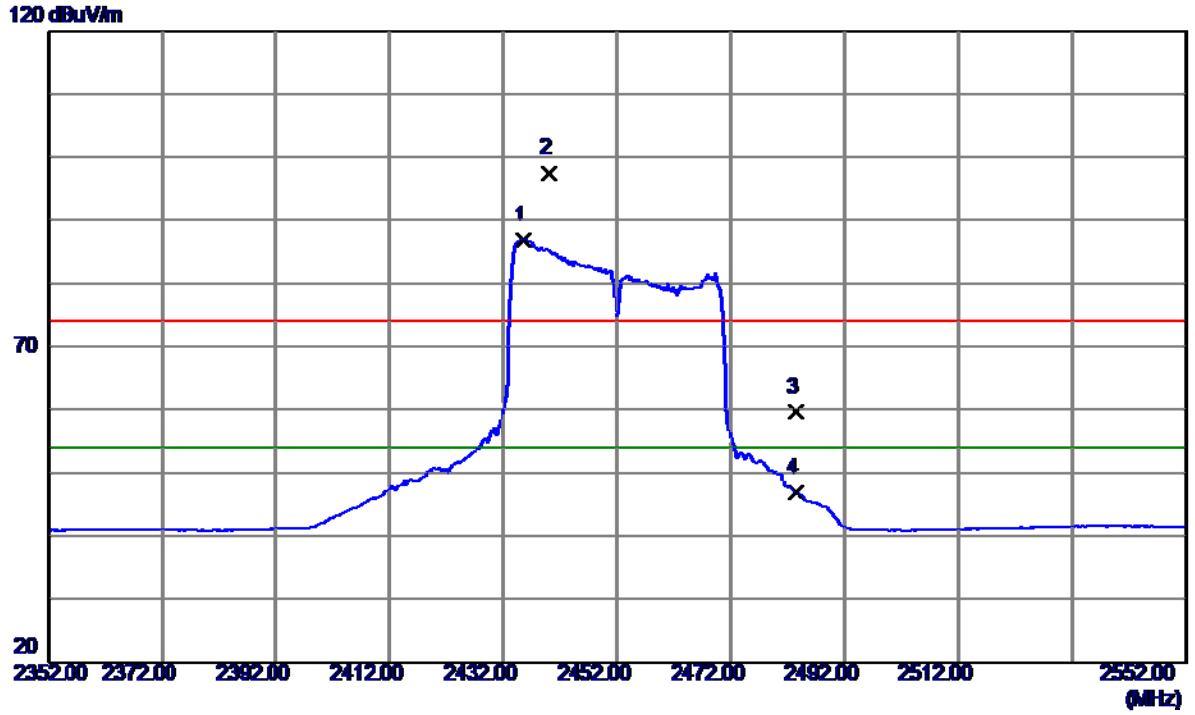
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	47.81	0.16	47.97	74.00	-26.03	Peak	
2	4924.1000	35.96	0.16	36.12	54.00	-17.88	AVG	

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

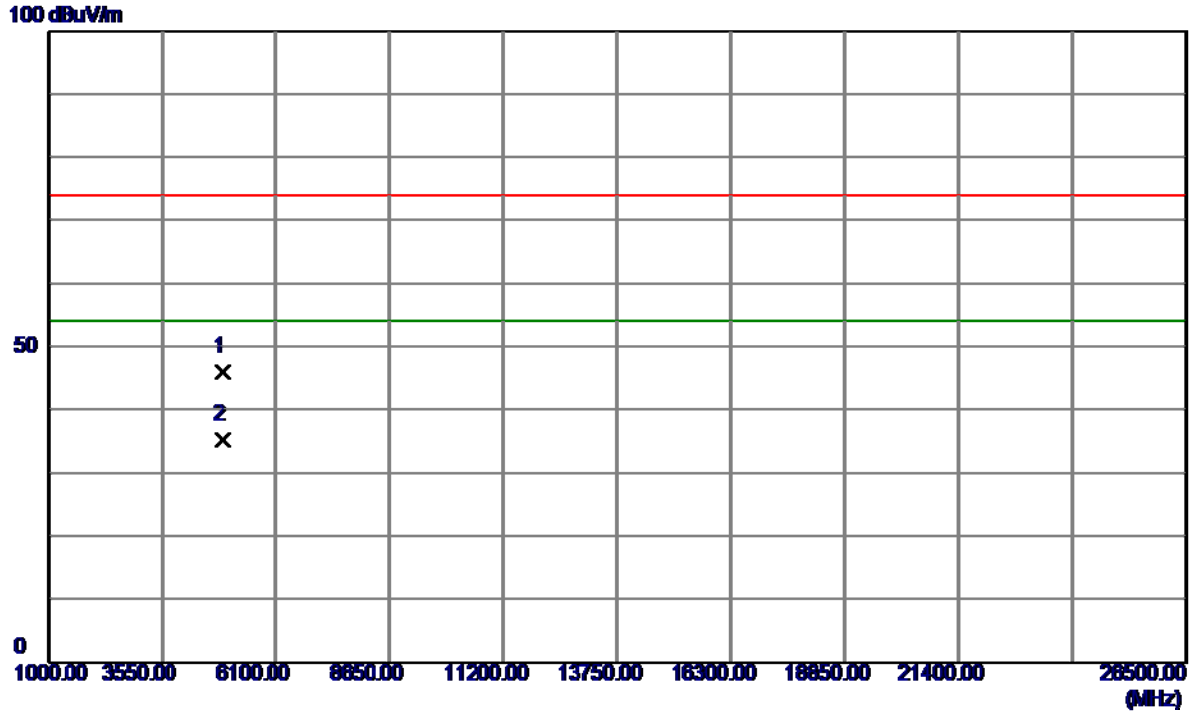
Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2435.6000	57.87	28.95	86.82	54.00	32.82	AVG	No Limit
2	2440.0000	68.38	28.95	97.33	74.00	23.33	Peak	No Limit
3	2483.5000	30.62	28.99	59.61	74.00	-14.39	Peak	
4	2483.5000	17.81	28.99	46.80	54.00	-7.20	AVG	

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

Horizontal



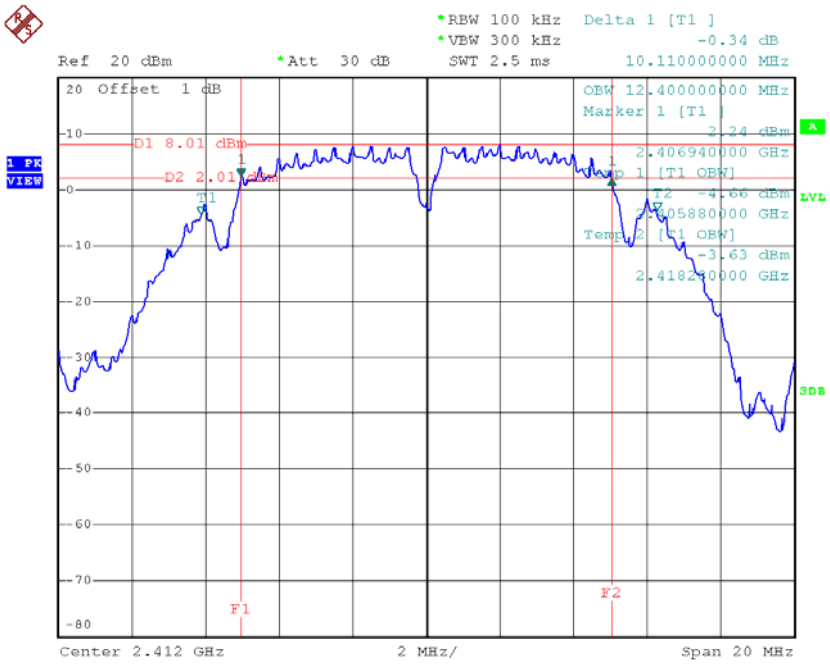
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4924.0000	45.81	0.16	45.97	74.00	-28.03	Peak	
2	4924.1000	34.96	0.16	35.12	54.00	-18.88	AVG	

ATTACHMENT E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

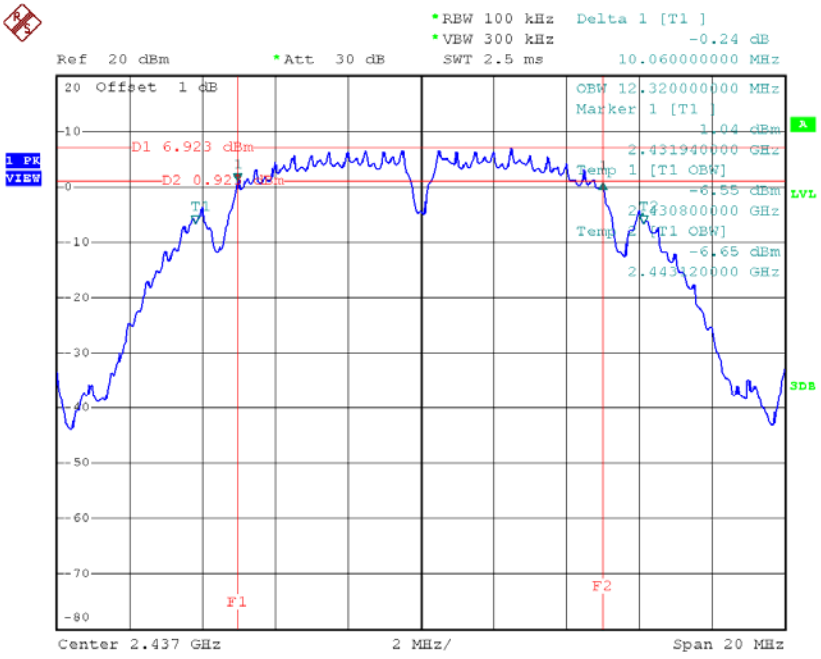
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.11	12.40	500	Complies
2437	10.06	12.32	500	Complies
2462	10.10	12.56	500	Complies

TX CH01



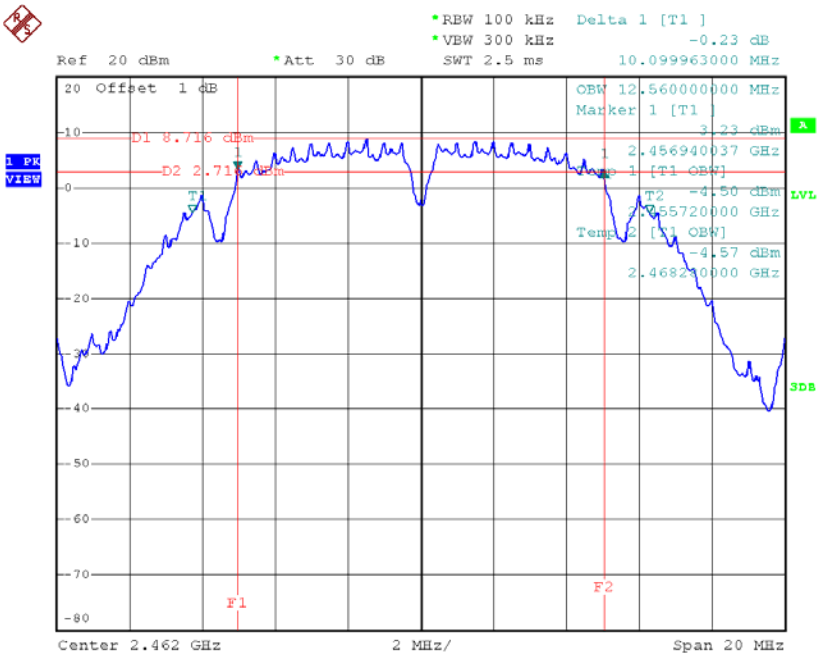
Date: 19.JUL.2015 09:27:05

TX CH06



Date: 19.JUL.2015 09:28:48

TX CH11

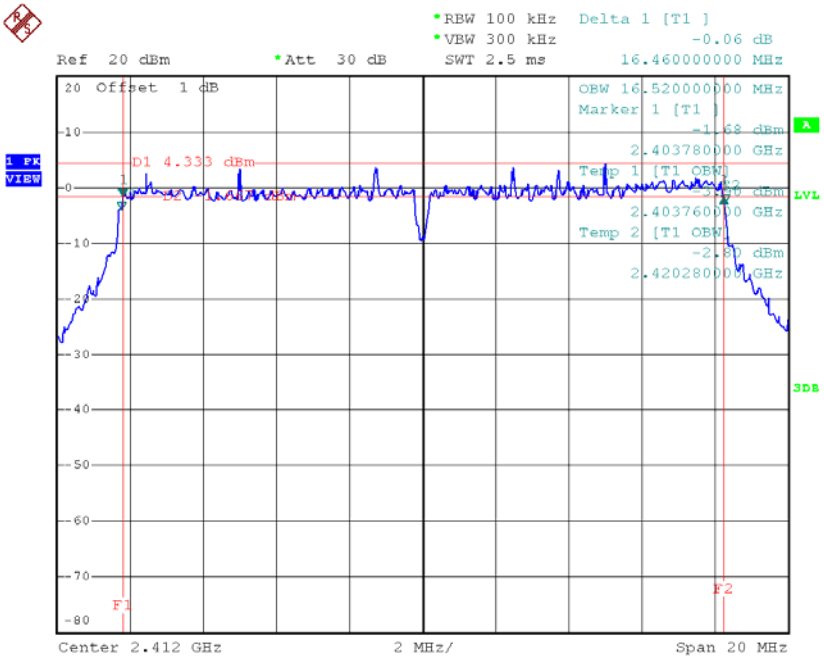


Date: 19.JUL.2015 09:30:10

Test Mode: TX G Mode_CH01/06/11

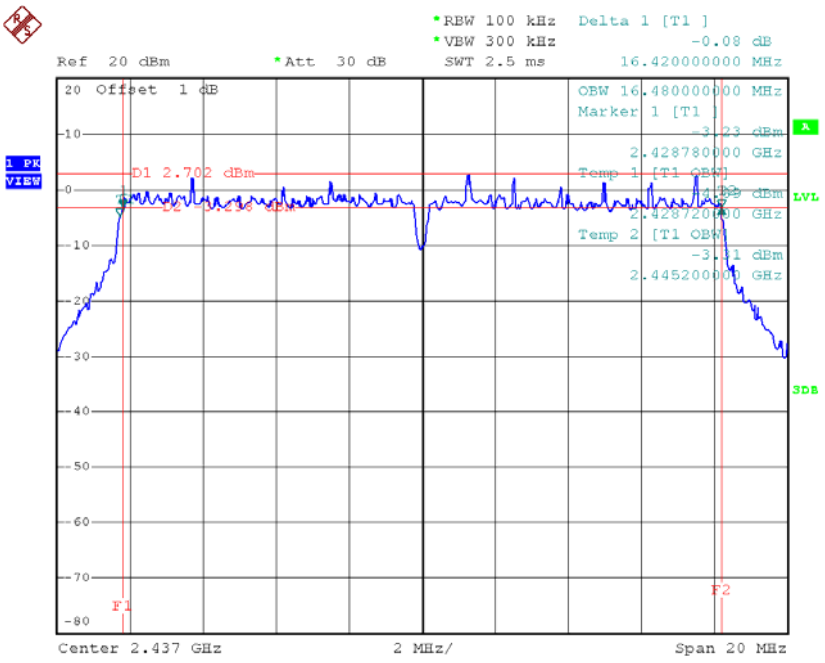
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.46	16.52	500	Complies
2437	16.42	16.48	500	Complies
2462	16.42	16.52	500	Complies

TX CH01



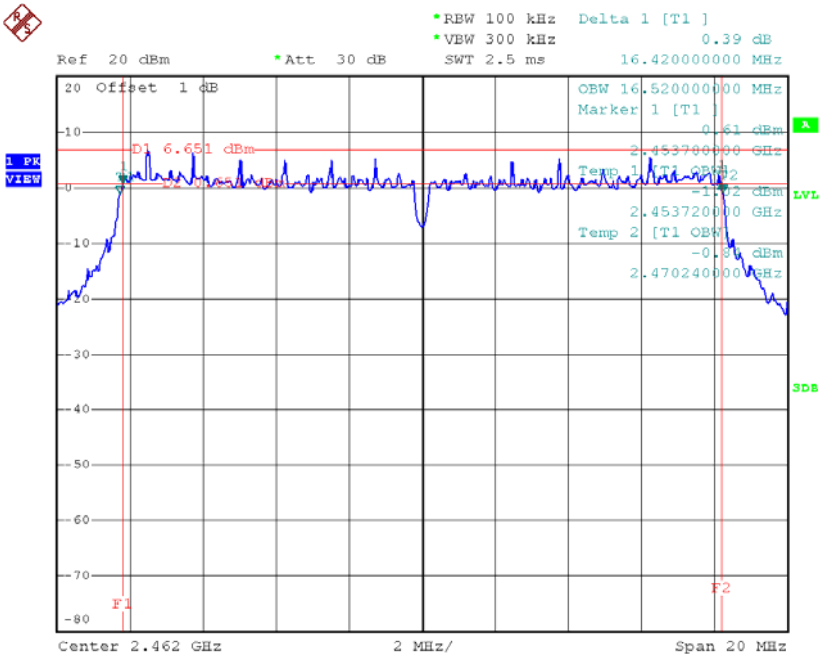
Date: 19.JUL.2015 09:33:42

TX CH06



Date: 19.JUL.2015 09:35:03

TX CH11

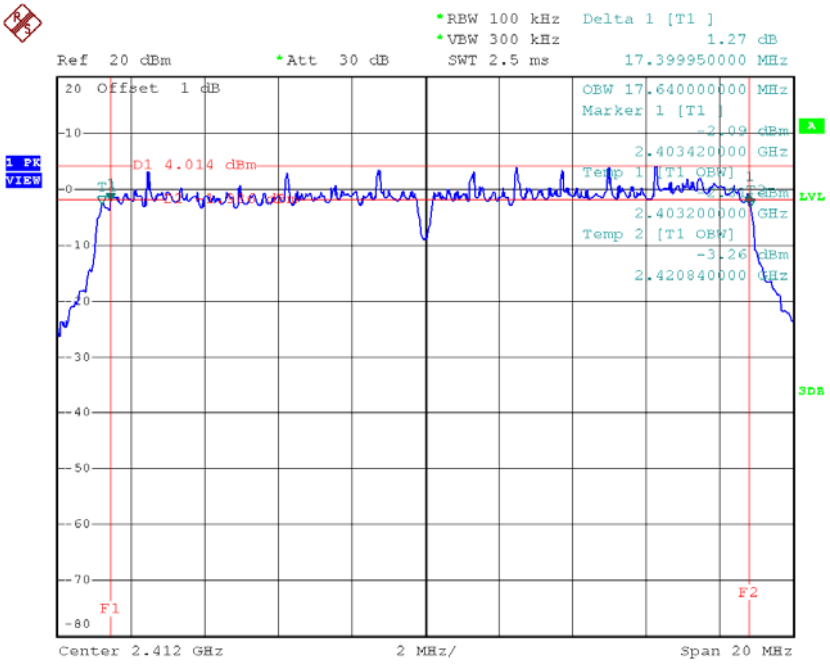


Date: 19.JUL.2015 09:39:53

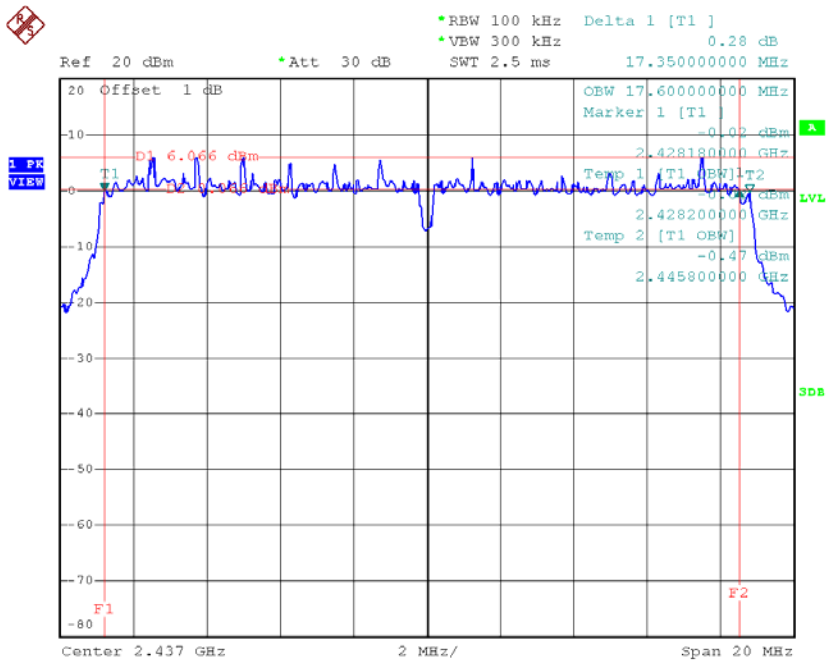
Test Mode : TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.40	17.64	500	Complies
2437	17.35	17.60	500	Complies
2462	17.63	17.64	500	Complies

TX CH01

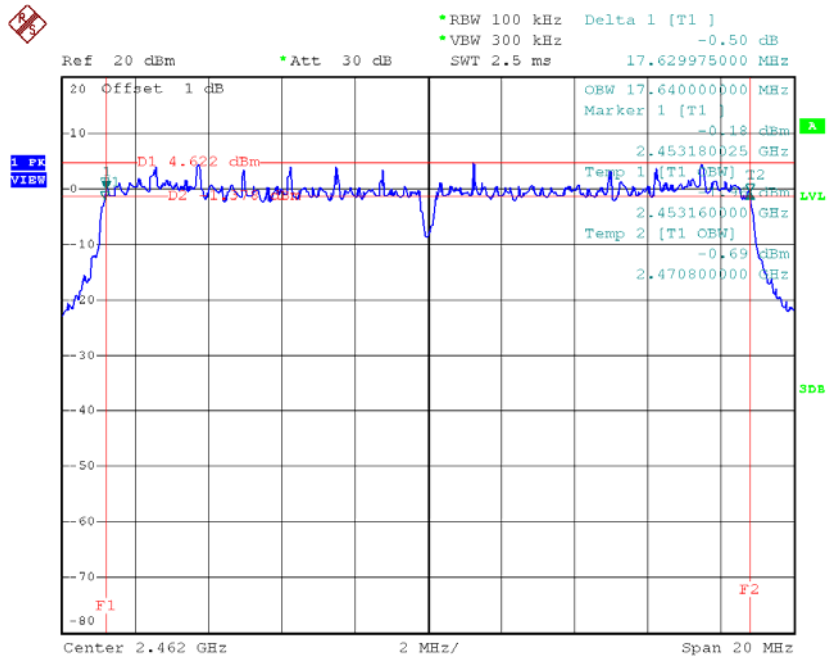


TX CH06



Date: 19.JUL.2015 09:50:34

TX CH11

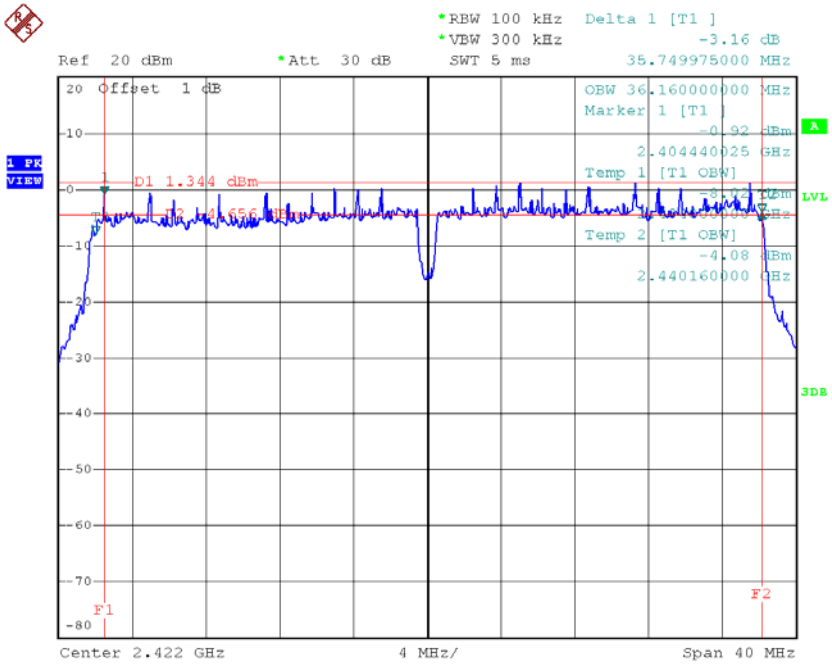


Date: 19.JUL.2015 09:52:23

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

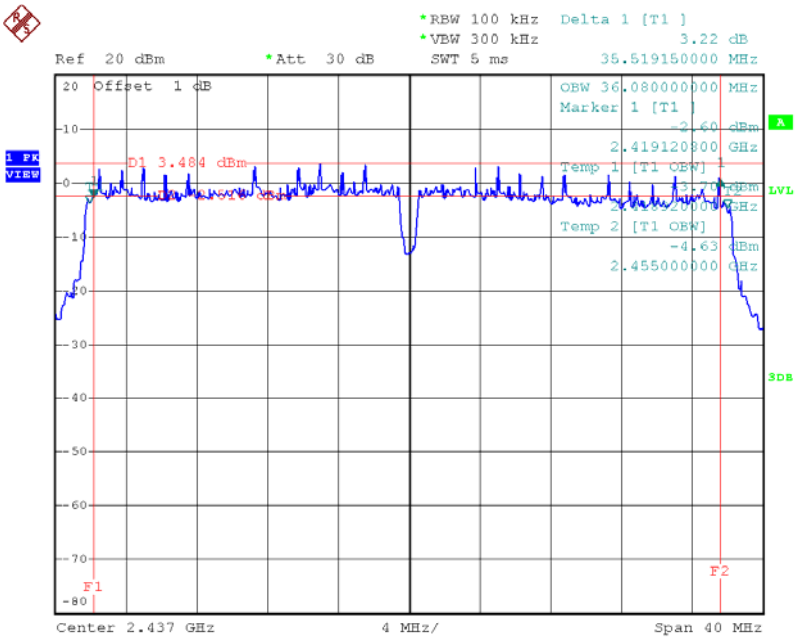
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	35.75	36.16	500	Complies
2437	35.52	36.08	500	Complies
2452	35.92	36.32	500	Complies

TX CH03



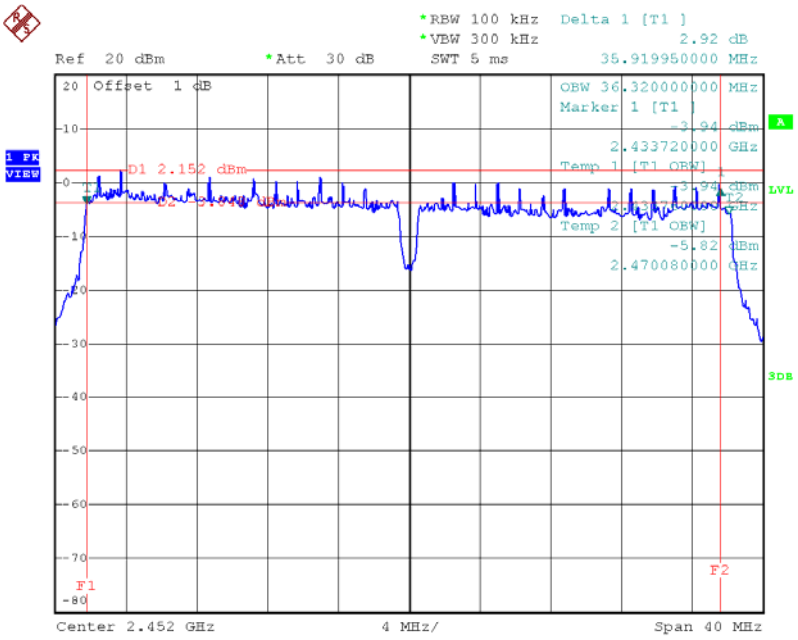
Date: 19.JUL.2015 10:03:19

TX CH06



Date: 19.JUL.2015 10:05:08

TX CH09



Date: 19.JUL.2015 10:07:07

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	19.79	0.10	30.00	1.00	Complies
2437	19.96	0.10	30.00	1.00	Complies
2462	19.82	0.10	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.21	0.08	30.00	1.00	Complies
2437	19.82	0.10	30.00	1.00	Complies
2462	18.64	0.07	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	19.16	0.08	30.00	1.00	Complies
2437	19.76	0.09	30.00	1.00	Complies
2462	19.29	0.08	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	20.08	0.10	30.00	1.00	Complies
2437	20.47	0.11	30.00	1.00	Complies
2462	19.84	0.10	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	22.55	0.18	30.00	1.00	Complies
2437	23.01	0.20	30.00	1.00	Complies
2462	22.55	0.18	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	18.93	0.08	30.00	1.00	Complies
2437	19.71	0.09	30.00	1.00	Complies
2452	19.05	0.08	30.00	1.00	Complies

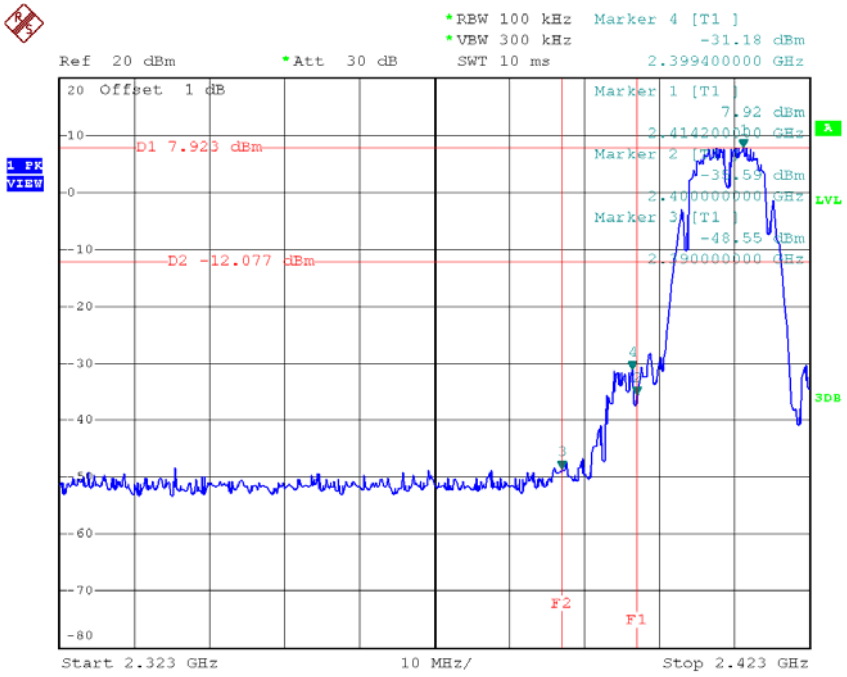
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	20.69	0.12	30.00	1.00	Complies
2437	20.74	0.12	30.00	1.00	Complies
2452	20.50	0.11	30.00	1.00	Complies

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	23.01	0.20	30.00	1.00	Complies
2437	23.22	0.21	30.00	1.00	Complies
2452	22.79	0.19	30.00	1.00	Complies

ATTACHMENT G - ANTENNA CONDUCTED SPURIOUS EMISSION

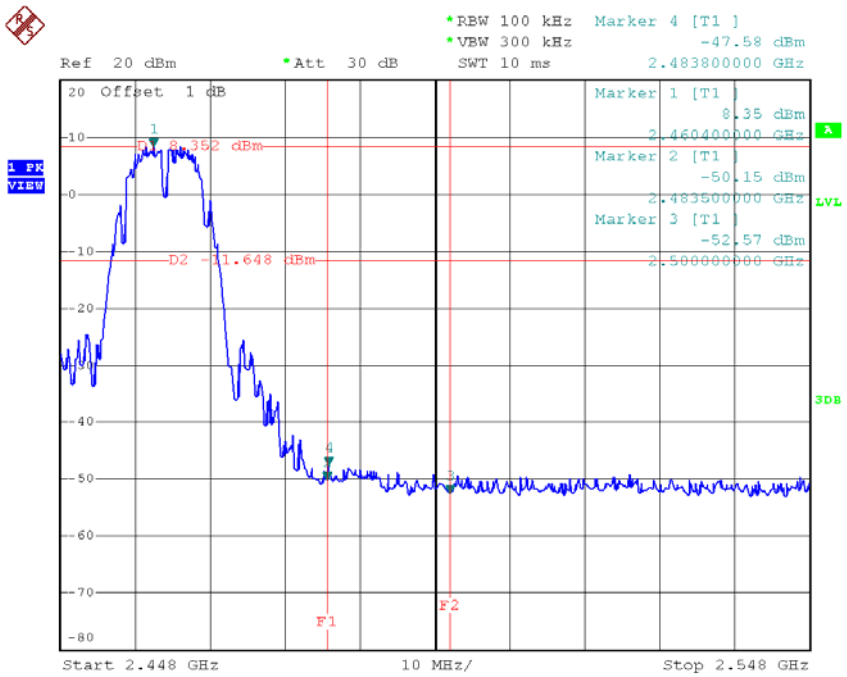
Test Mode :	TX B Mode

TX B mode CH01



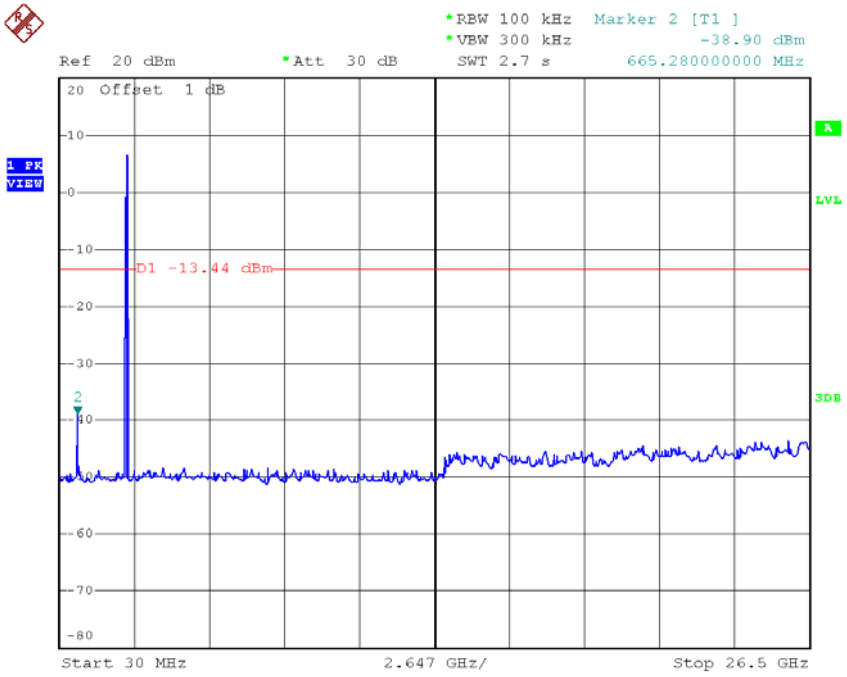
Date: 19.JUL.2015 09:27:27

TX B mode CH11



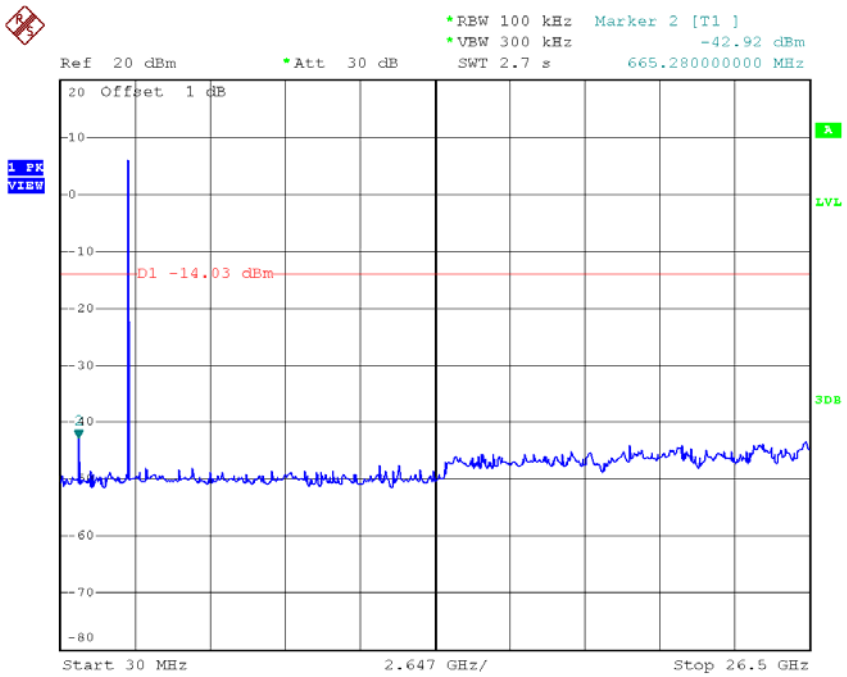
Date: 19.JUL.2015 09:30:32

TX B mode CH01 (10 Harmonic of the frequency)



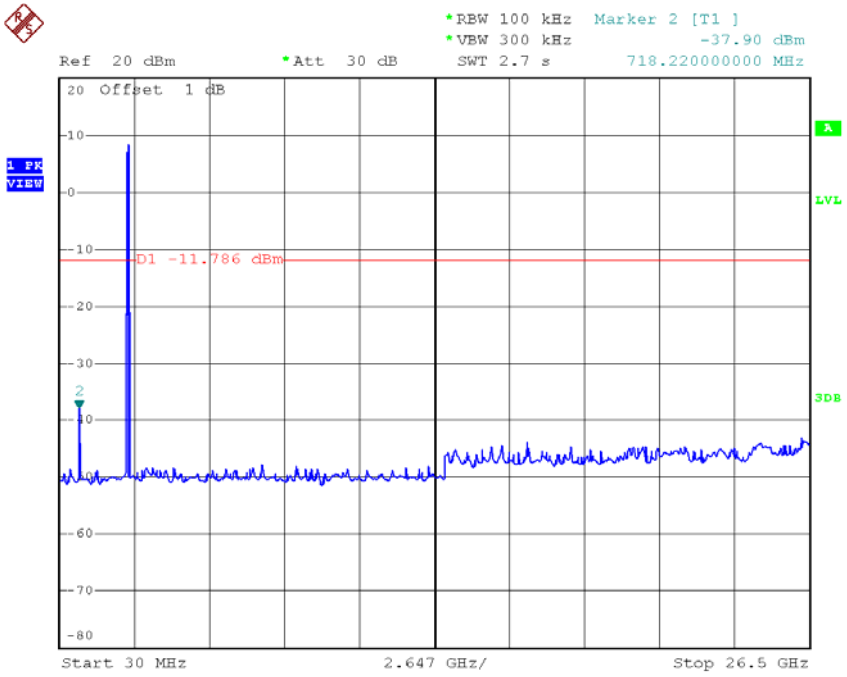
Date: 19.JUL.2015 09:27:19

TX B mode CH06 (10 Harmonic of the frequency)



Date: 19.JUL.2015 09:29:02

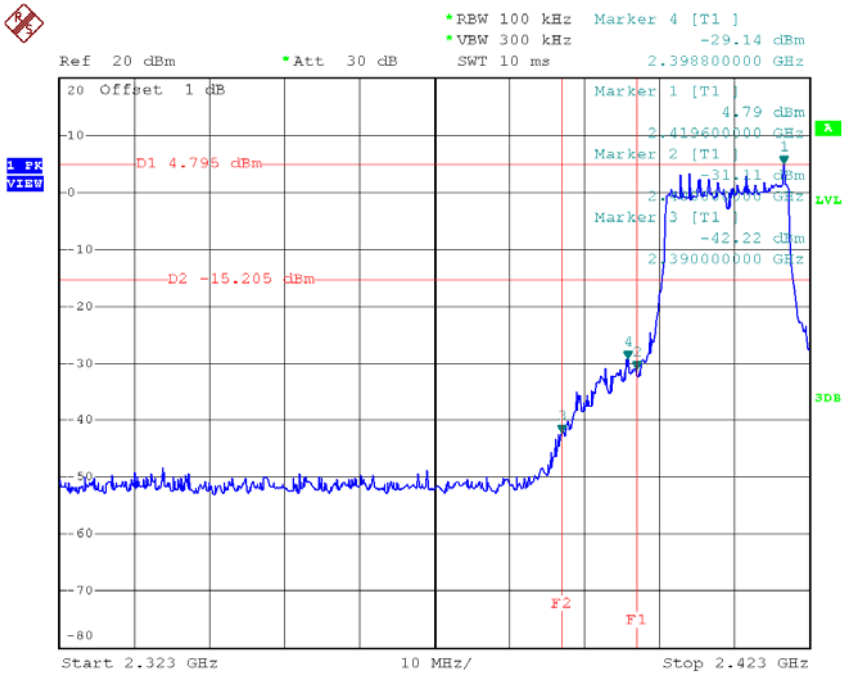
TX B mode CH11 (10 Harmonic of the frequency)



Date: 19.JUL.2015 09:30:25

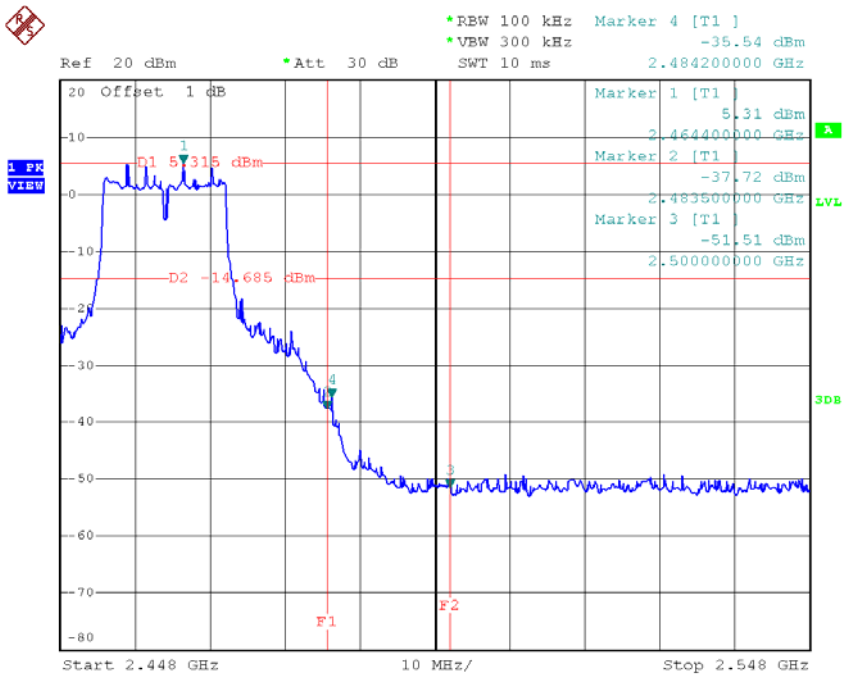
Test Mode :	**TX G Mode**

TX G mode CH01



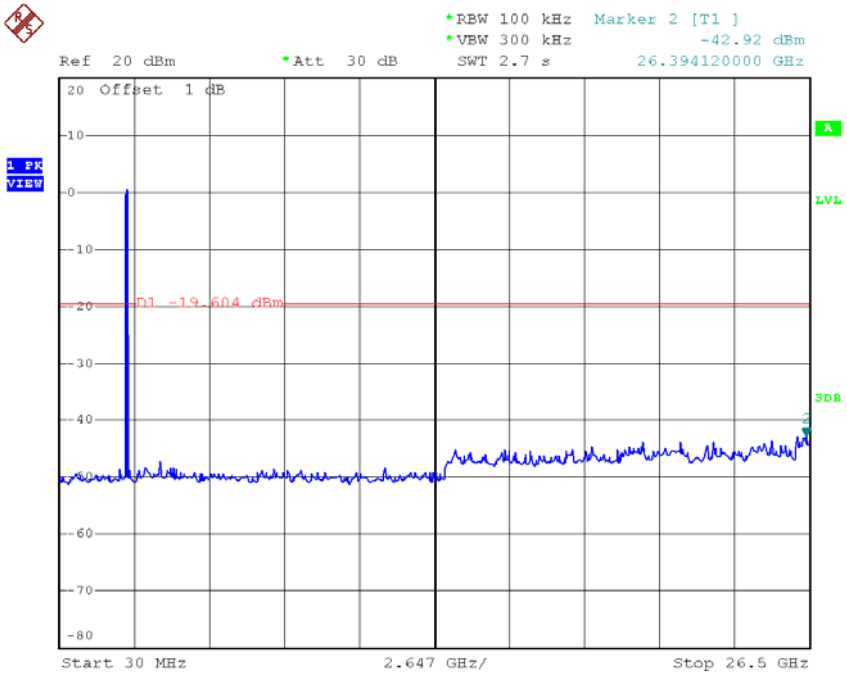
Date: 19.JUL.2015 09:34:04

TX G mode CH11



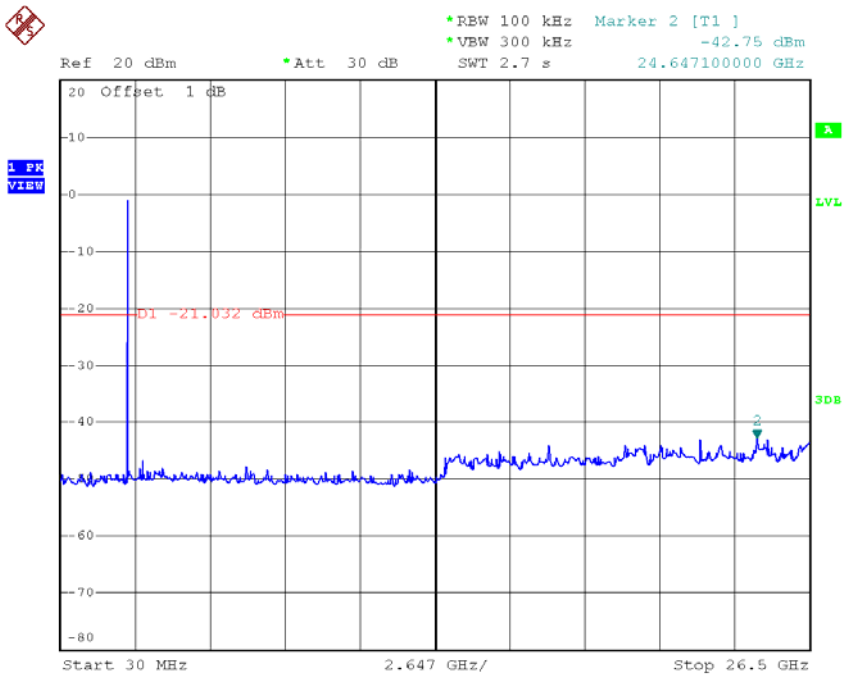
Date: 19.JUL.2015 09:40:15

TX G mode CH01 (10 Harmonic of the frequency)



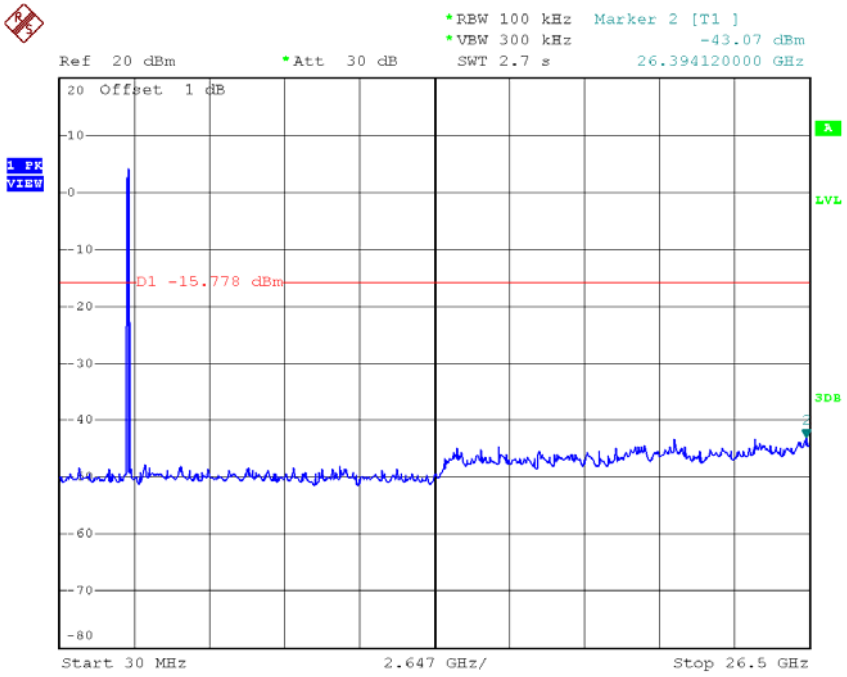
Date: 19.JUL.2015 09:33:56

TX G mode CH06 (10 Harmonic of the frequency)



Date: 19.JUL.2015 09:35:17

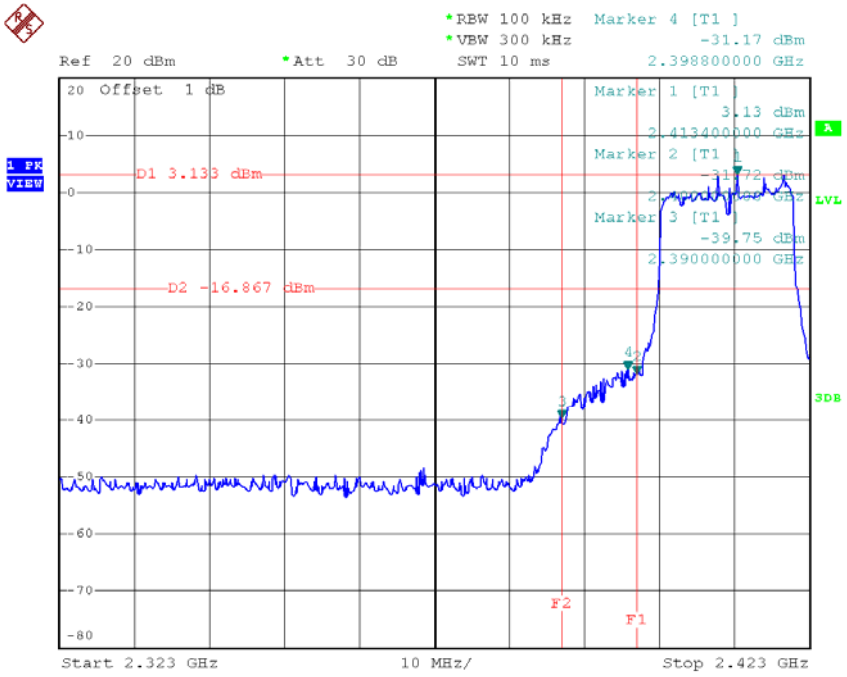
TX G mode CH11 (10 Harmonic of the frequency)



Date: 19.JUL.2015 09:40:07

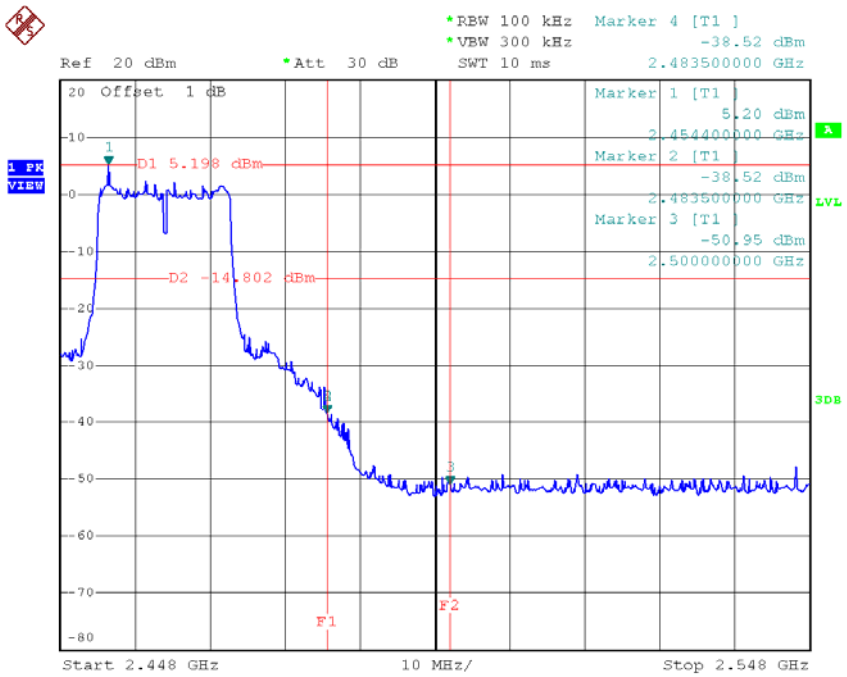
Test Mode :	TX N-20M Mode_ANT 1

TX HT20 mode CH01



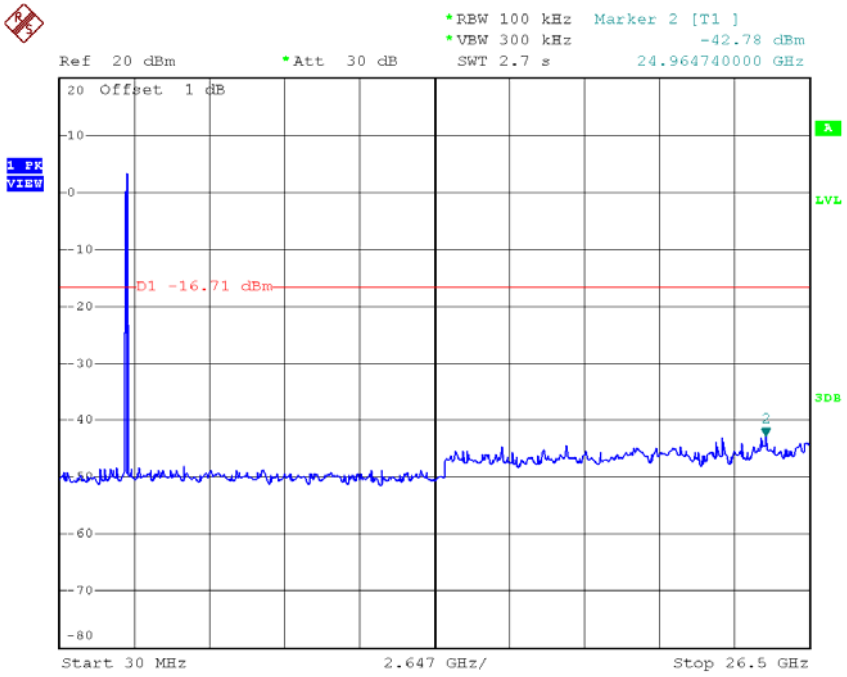
Date: 19.JUL.2015 09:46:34

TX HT20 mode CH11



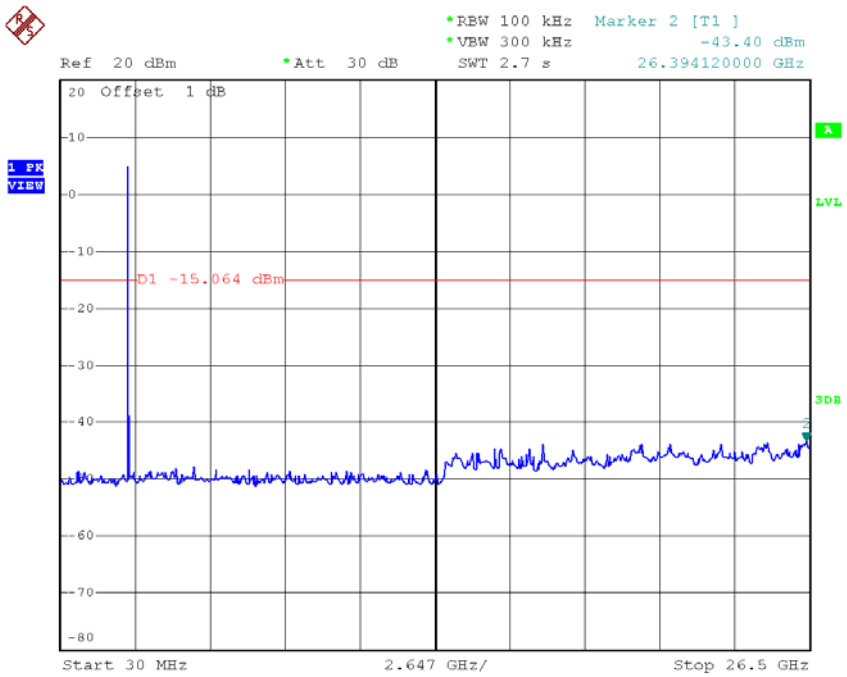
Date: 19.JUL.2015 09:52:45

TX HT20 mode CH01 (10 Harmonic of the frequency)



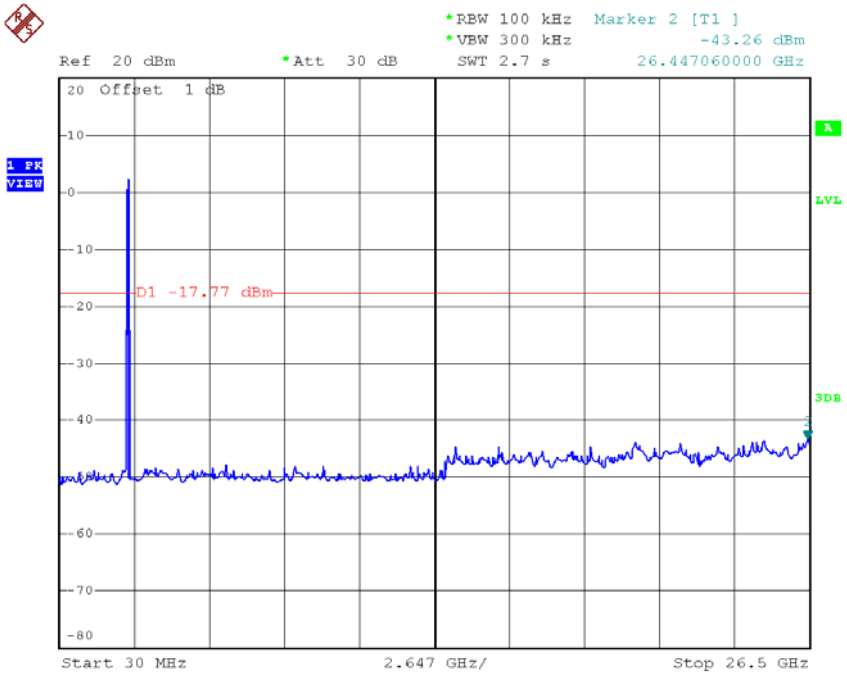
Date: 19.JUL.2015 09:46:26

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 19.JUL.2015 09:50:48

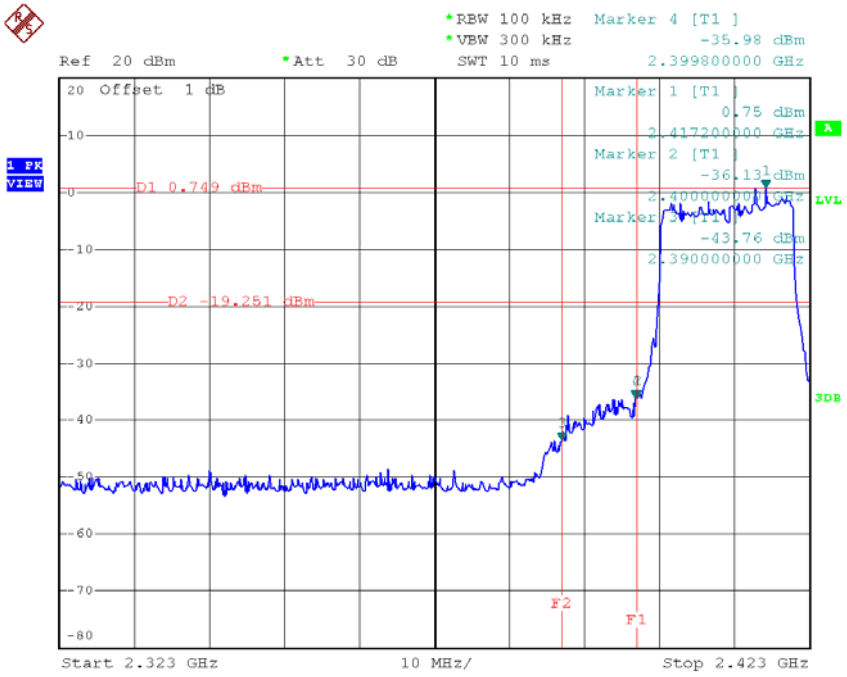
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 19.JUL.2015 09:52:37

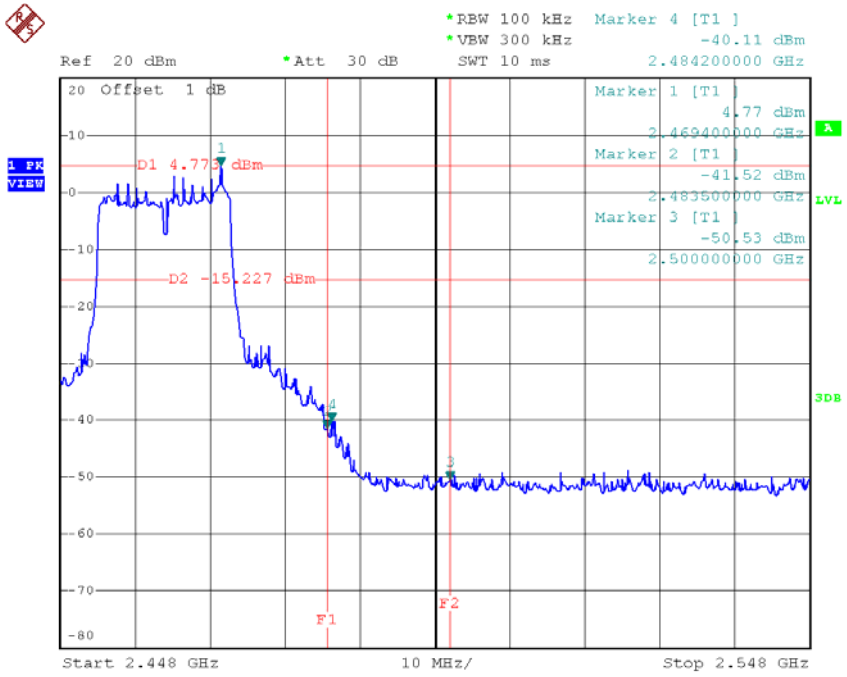
Test Mode :	TX N-20M Mode_ANT 2

TX HT20 mode CH01



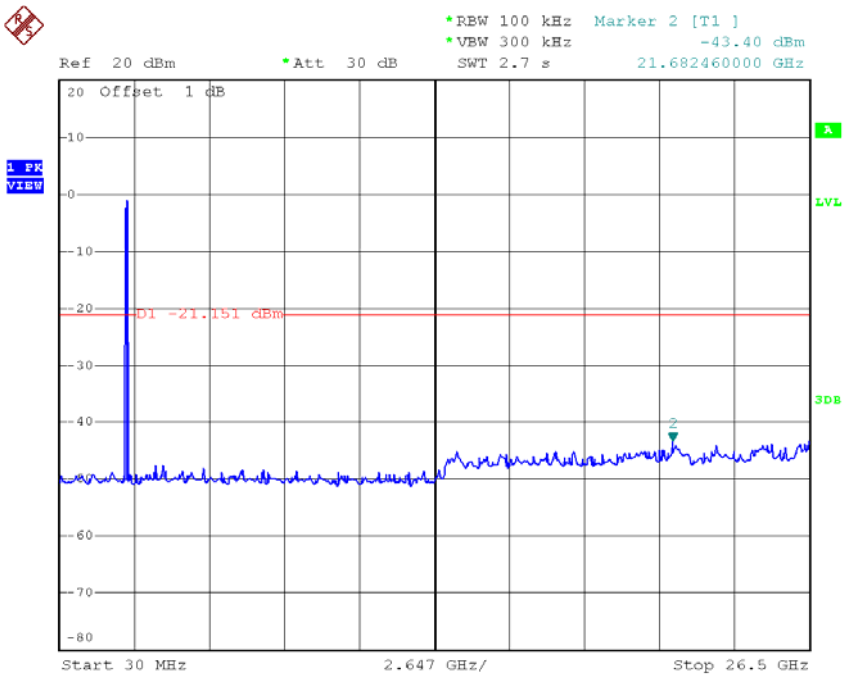
Date: 19.JUL.2015 09:55:39

TX HT20 mode CH11



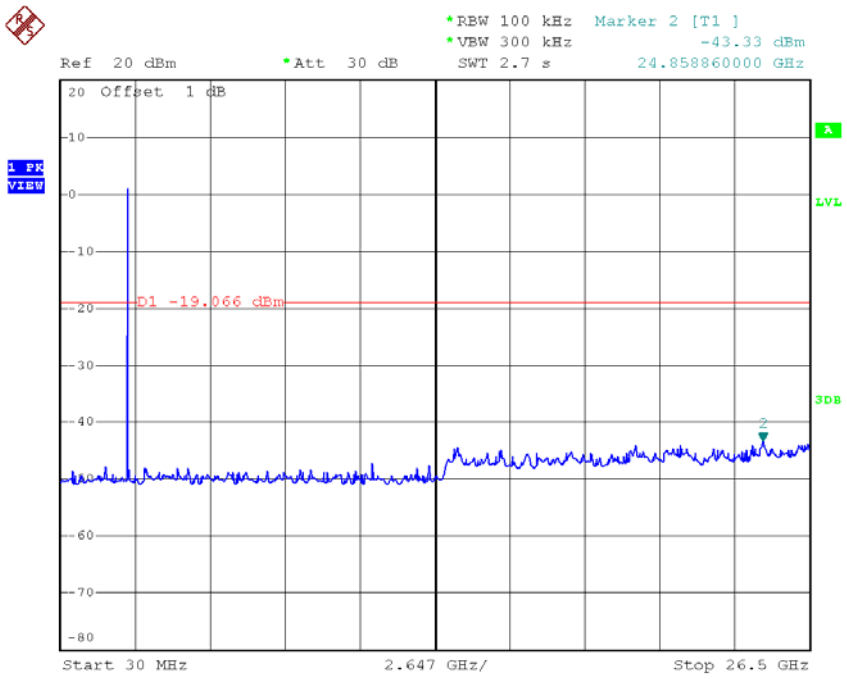
Date: 19.JUL.2015 09:58:20

TX HT20 mode CH01 (10 Harmonic of the frequency)



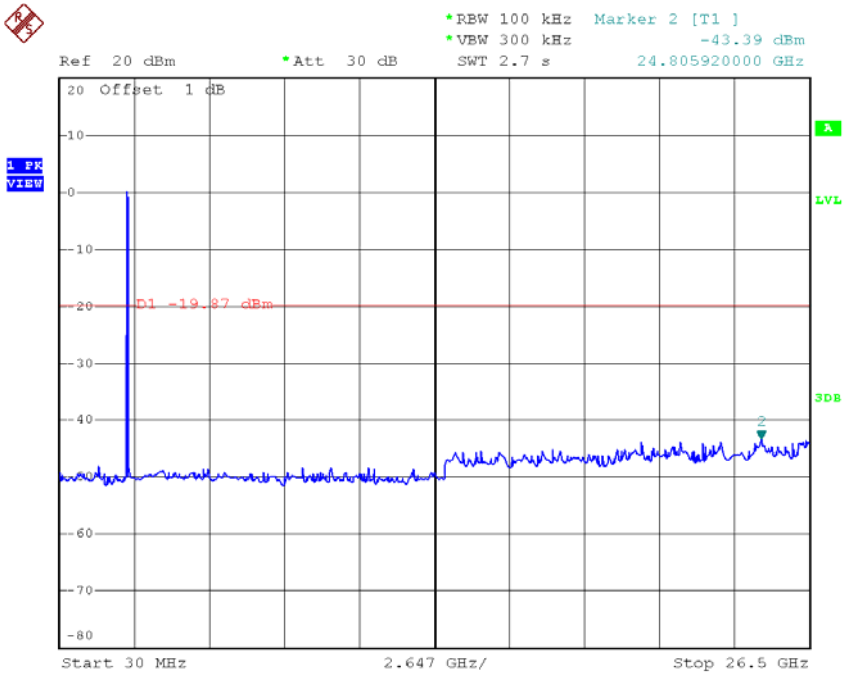
Date: 19.JUL.2015 09:55:31

TX HT20 mode CH06 (10 Harmonic of the frequency)



Date: 19.JUL.2015 09:56:56

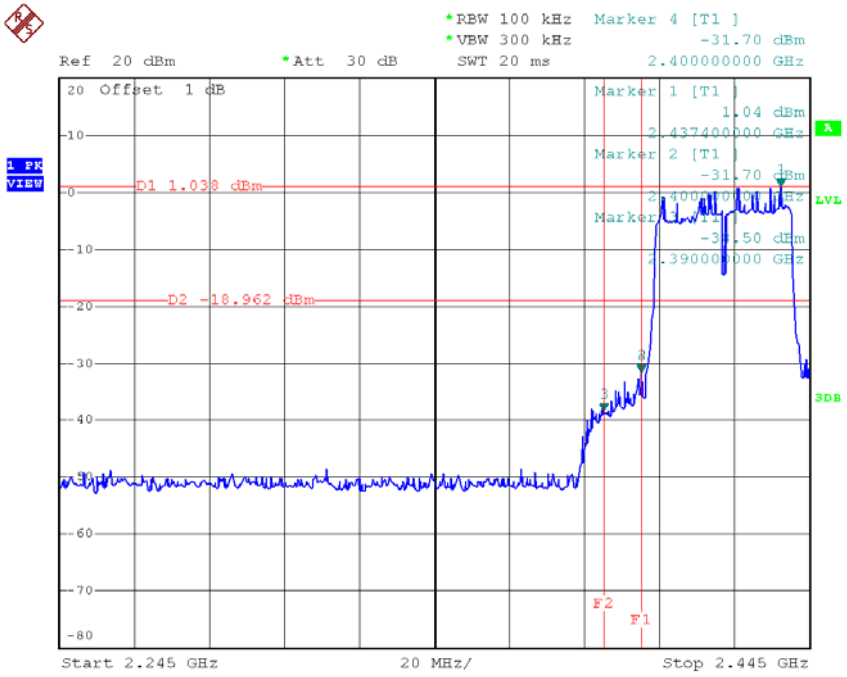
TX HT20 mode CH11 (10 Harmonic of the frequency)



Date: 19.JUL.2015 09:58:12

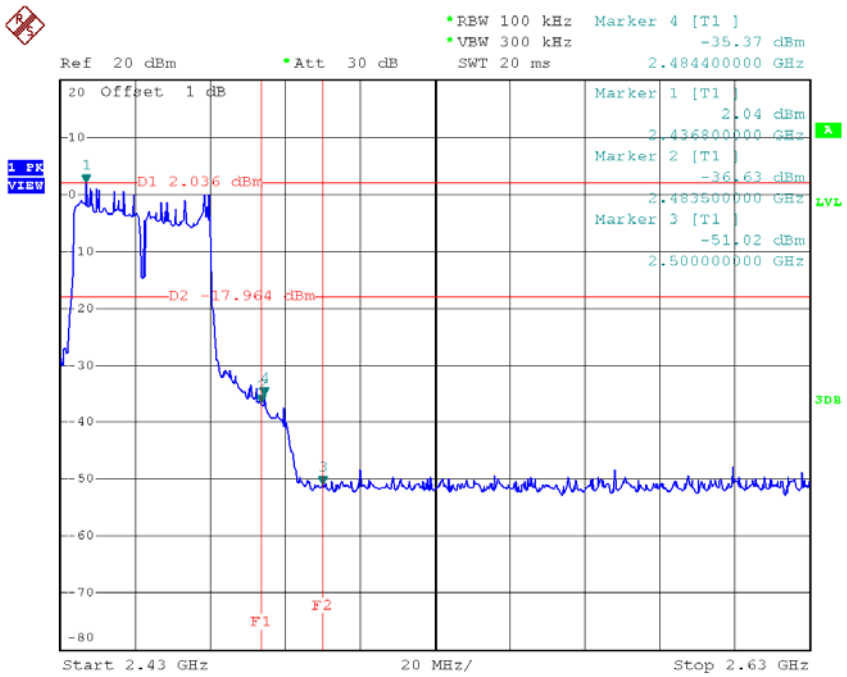
Test Mode :	TX N-40M Mode_ANT 1

TX HT40 mode CH03



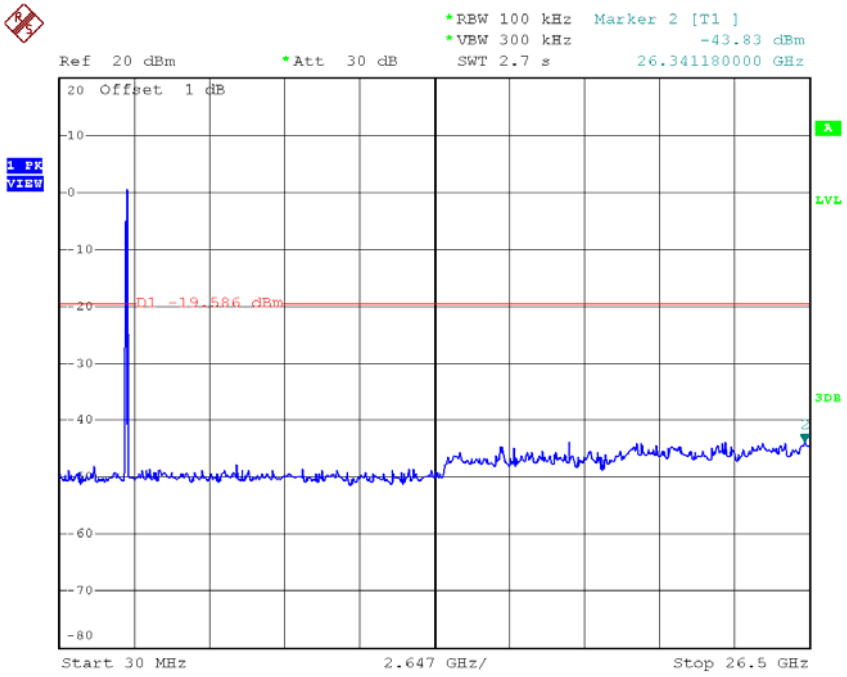
Date: 19.JUL.2015 10:03:41

TX HT40 mode CH09



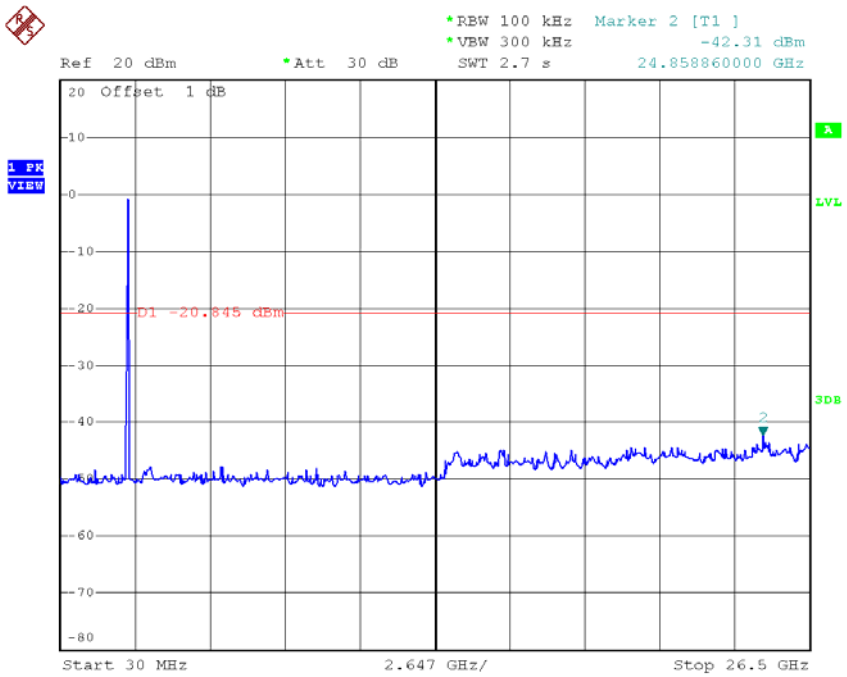
Date: 19.JUL.2015 10:07:29

TX HT40 mode CH03 (10 Harmonic of the frequency)



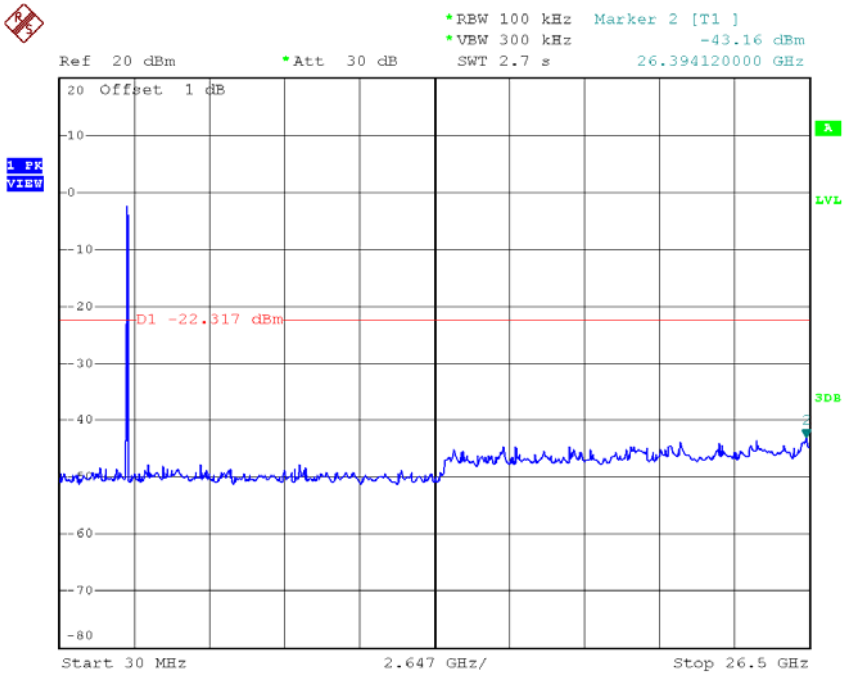
Date: 19.JUL.2015 10:03:33

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 19.JUL.2015 10:05:22

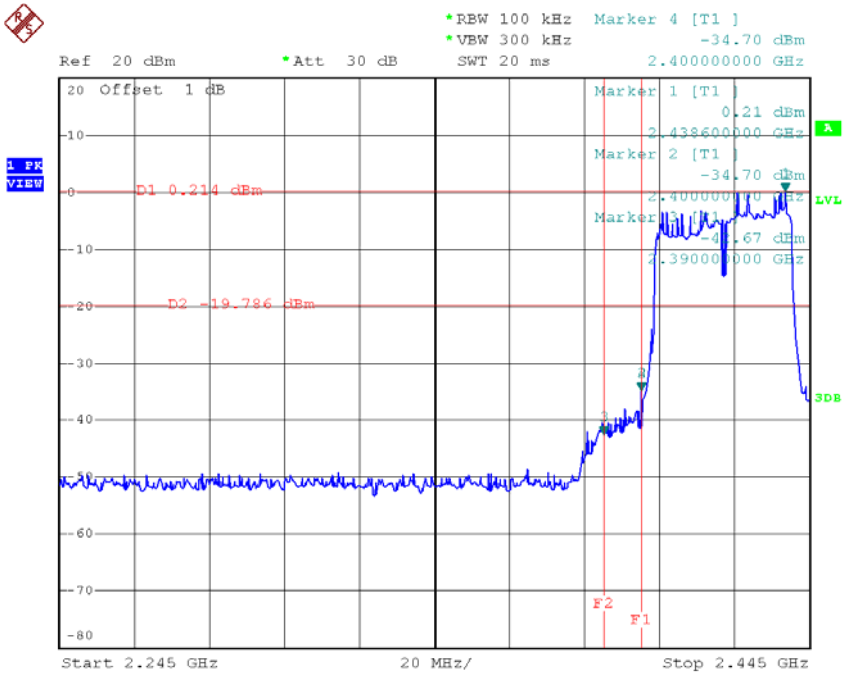
TX HT40 mode CH09 (10 Harmonic of the frequency)



Date: 19.JUL.2015 10:07:21

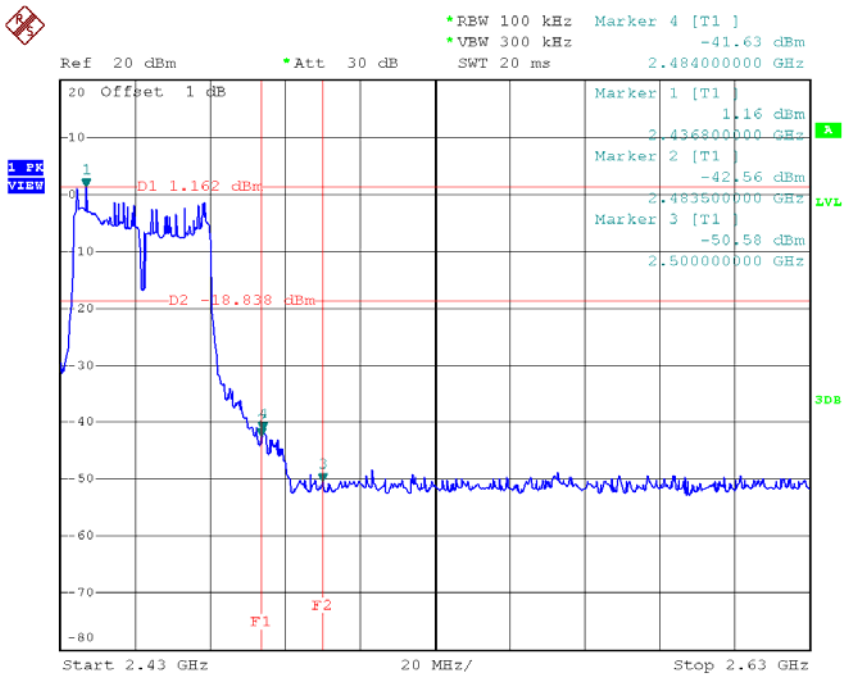
Test Mode :	TX N-40M Mode_ANT 2

TX HT40 mode CH03



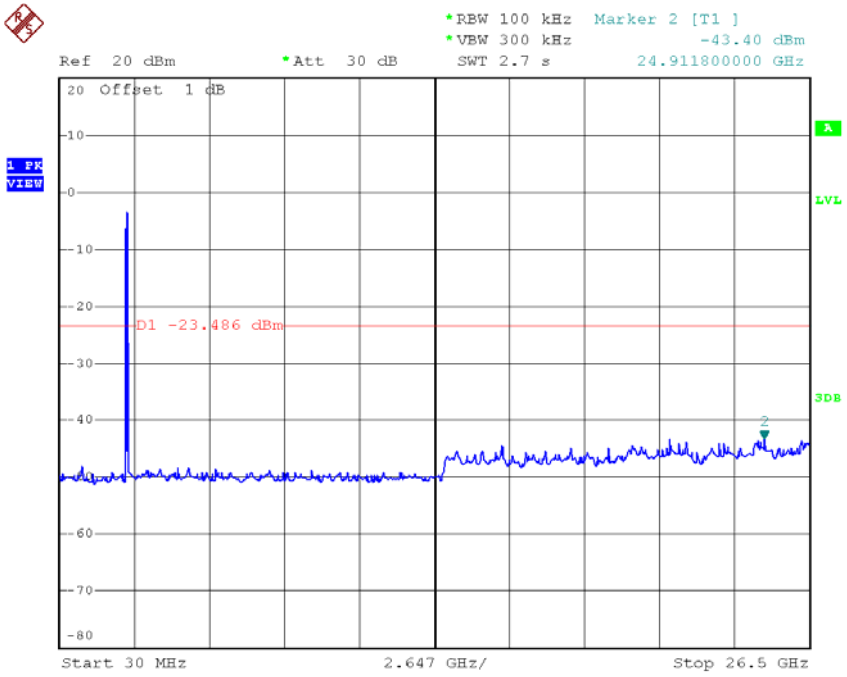
Date: 19.JUL.2015 10:10:21

TX HT40 mode CH09



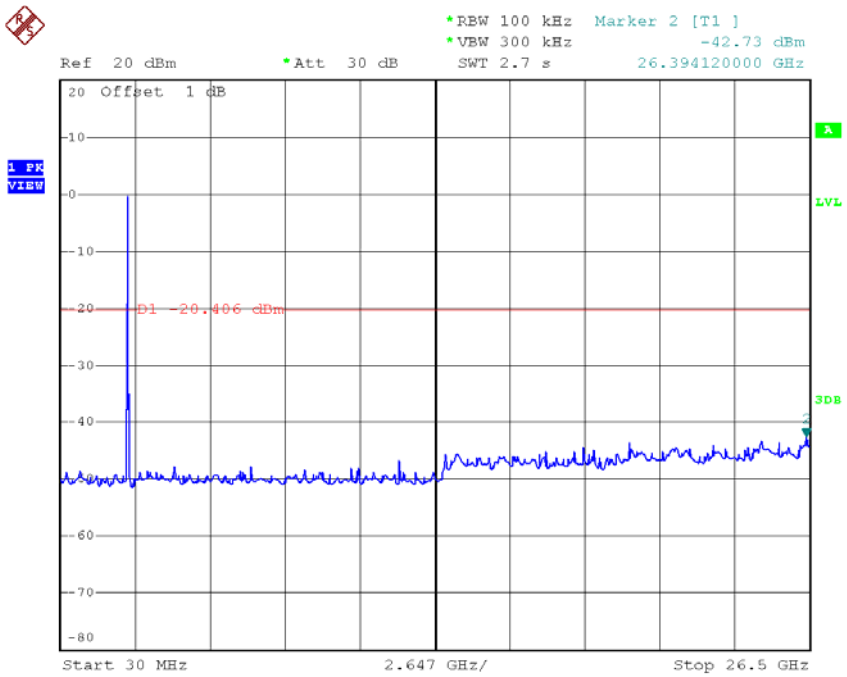
Date: 19.JUL.2015 10:13:08

TX HT40 mode CH03 (10 Harmonic of the frequency)



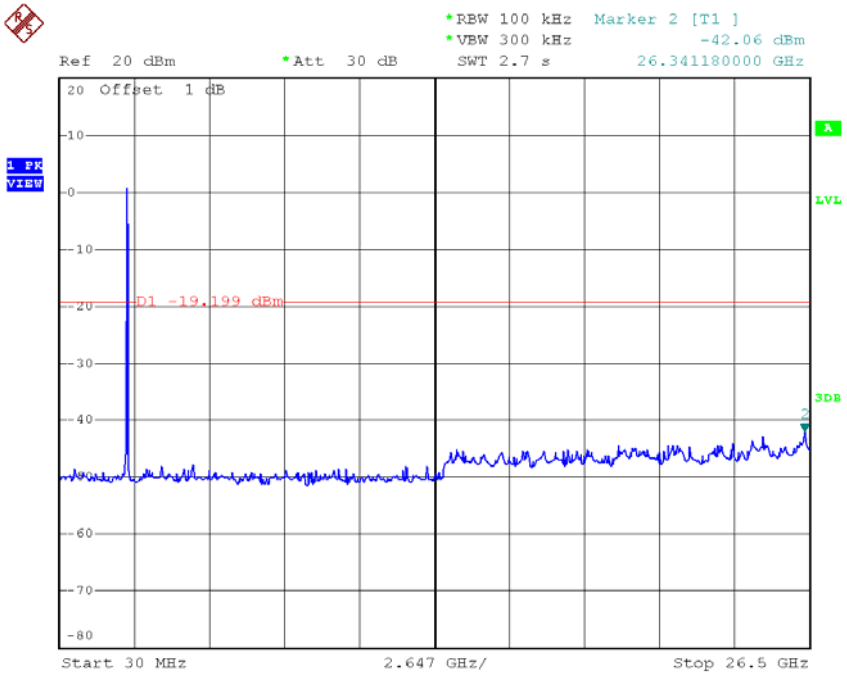
Date: 19.JUL.2015 10:10:14

TX HT40 mode CH06 (10 Harmonic of the frequency)



Date: 19.JUL.2015 10:11:42

TX HT40 mode CH09 (10 Harmonic of the frequency)



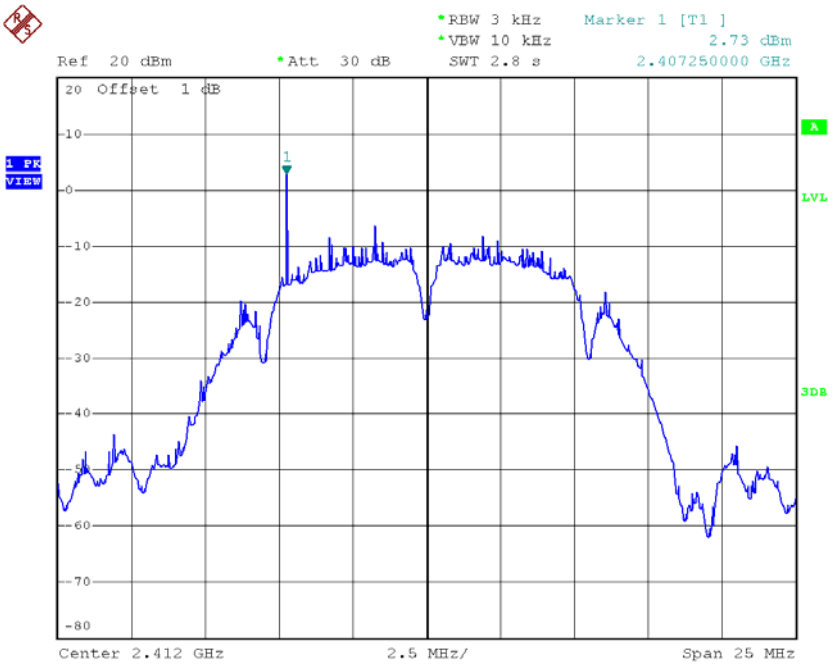
Date: 19.JUL.2015 10:13:00

ATTACHMENT H - POWER SPECTRAL DENSITY

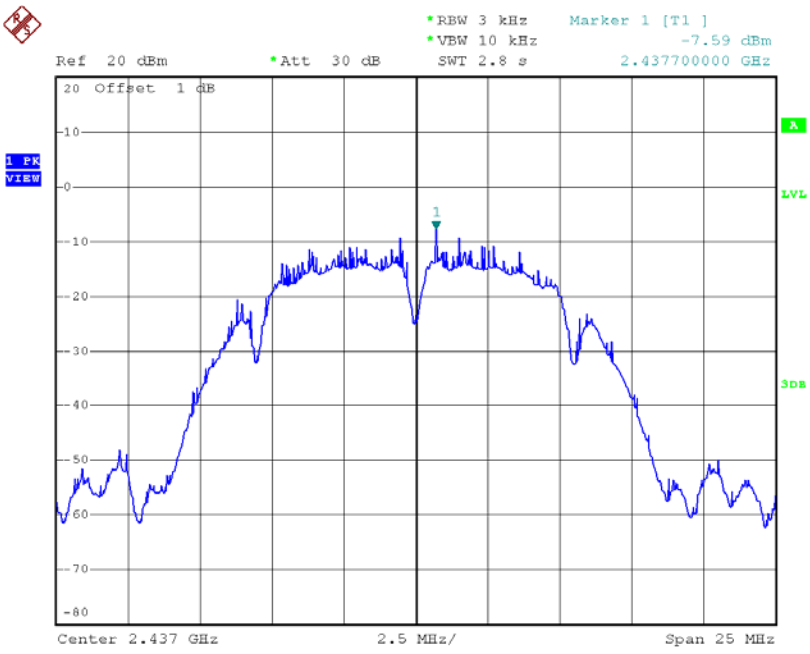
Test Mode :TX B Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	2.73	1.87	8.00	Complies
2437	-7.59	0.17	8.00	Complies
2462	-6.97	0.20	8.00	Complies

TX CH01

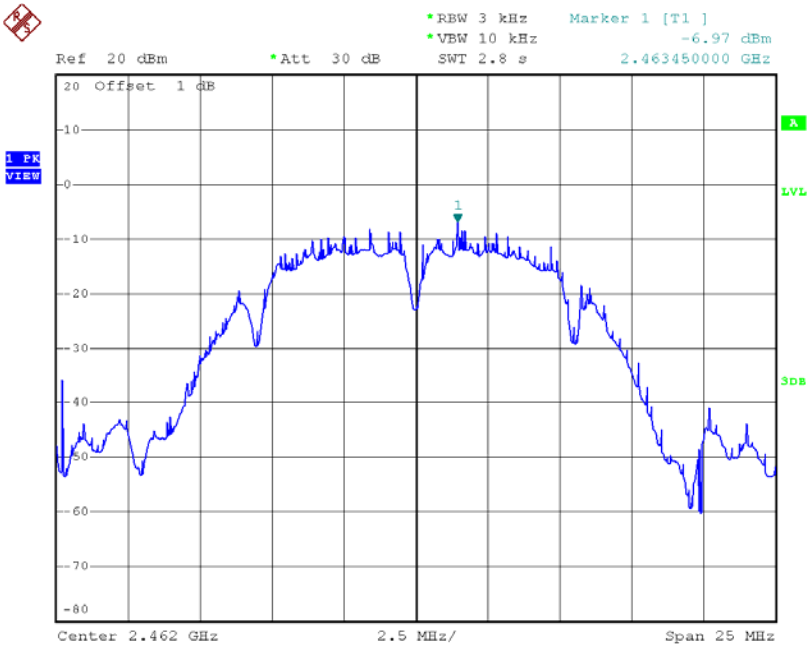


TX CH06



Date: 19.JUL.2015 09:29:11

TX CH11

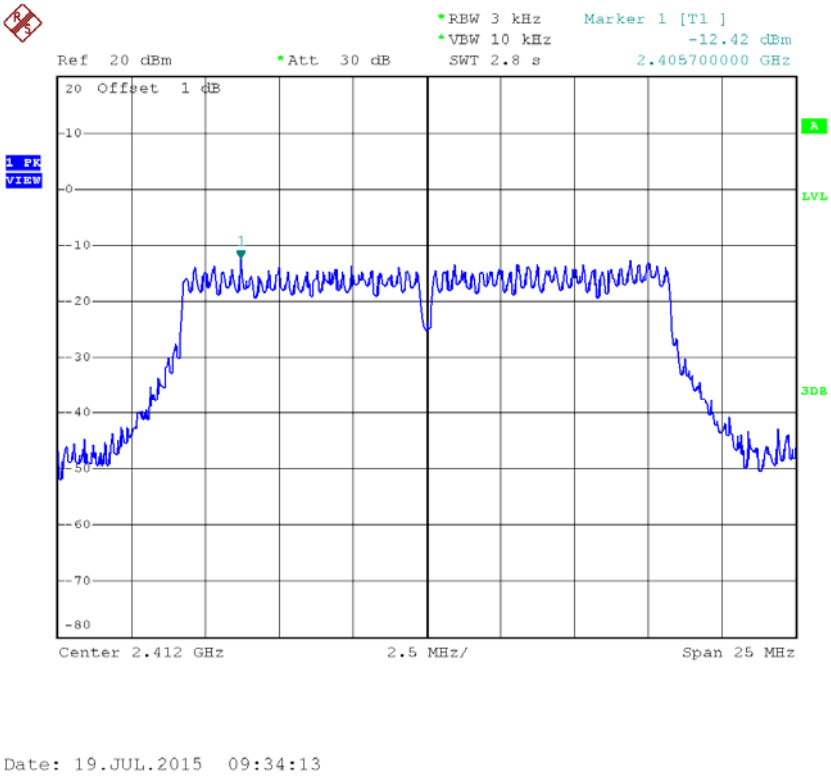


Date: 19.JUL.2015 09:30:42

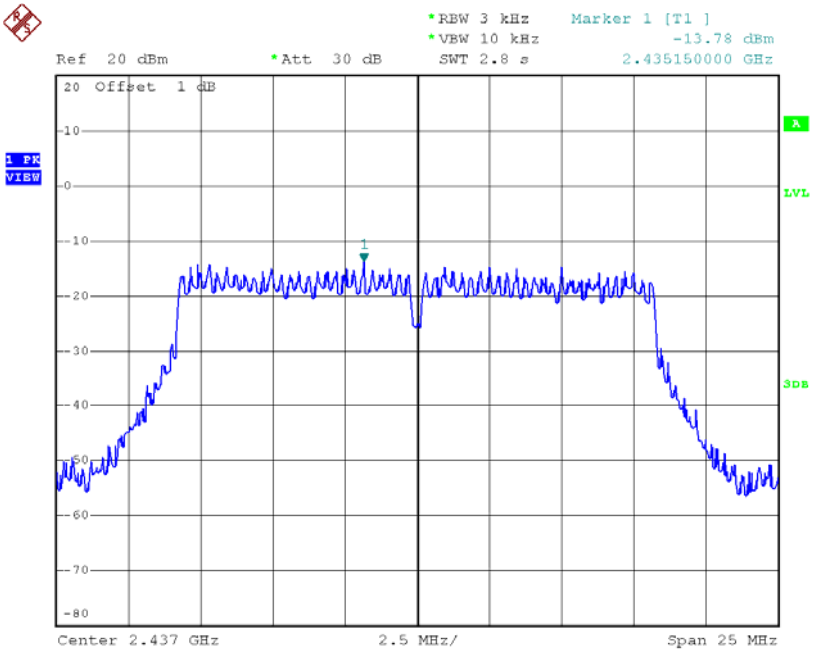
Test Mode :TX G Mode_CH01/06/11

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-12.42	0.06	8.00	Complies
2437	-13.78	0.04	8.00	Complies
2462	-10.76	0.08	8.00	Complies

TX CH01

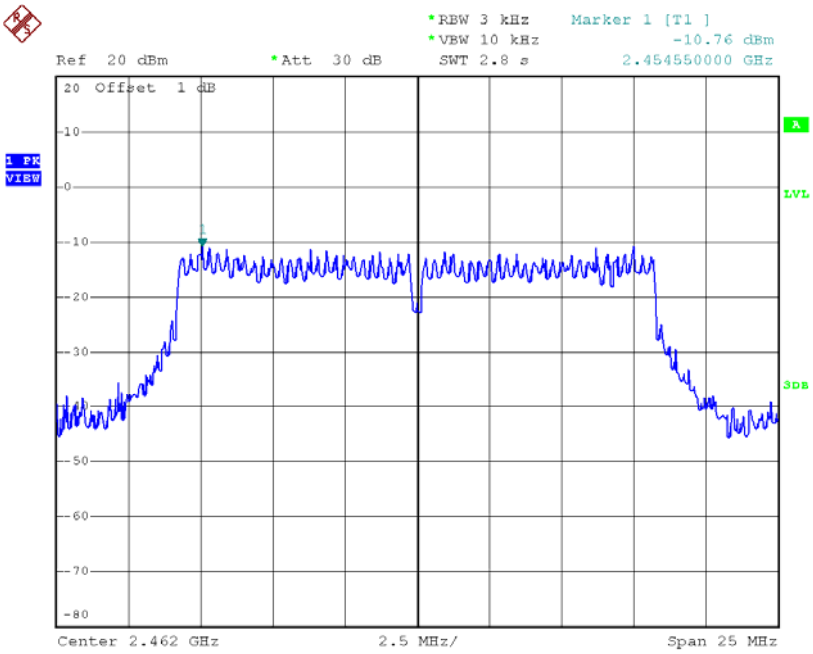


TX CH06



Date: 19.JUL.2015 09:35:26

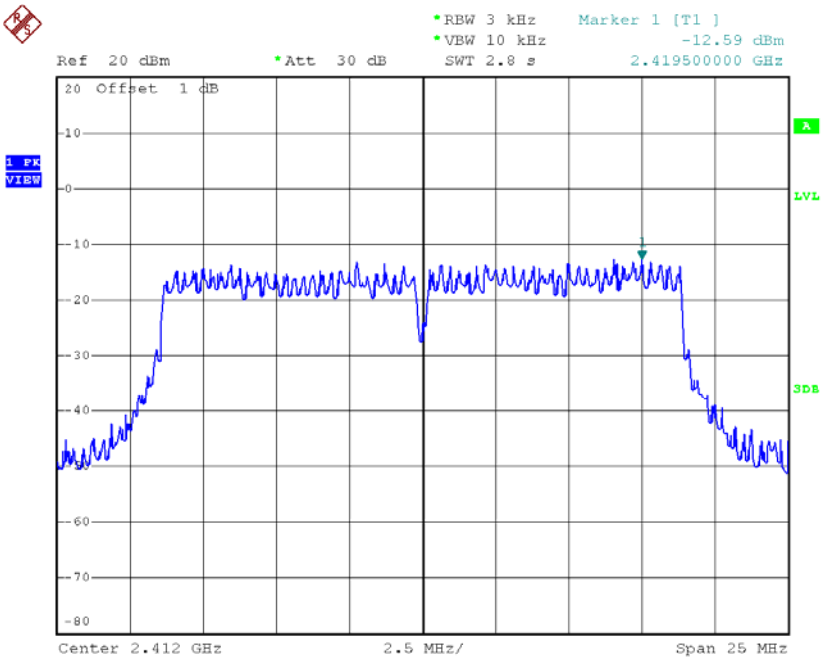
TX CH11



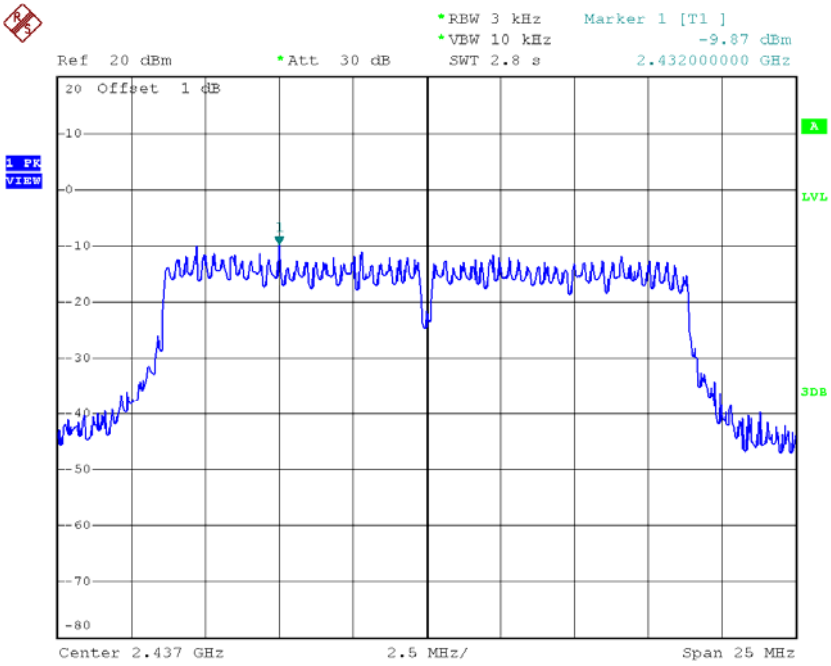
Date: 19.JUL.2015 09:40:24

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	-12.59	0.06	8.00	Complies
2437	-9.87	0.10	8.00	Complies
2462	-11.83	0.07	8.00	Complies

TX CH01

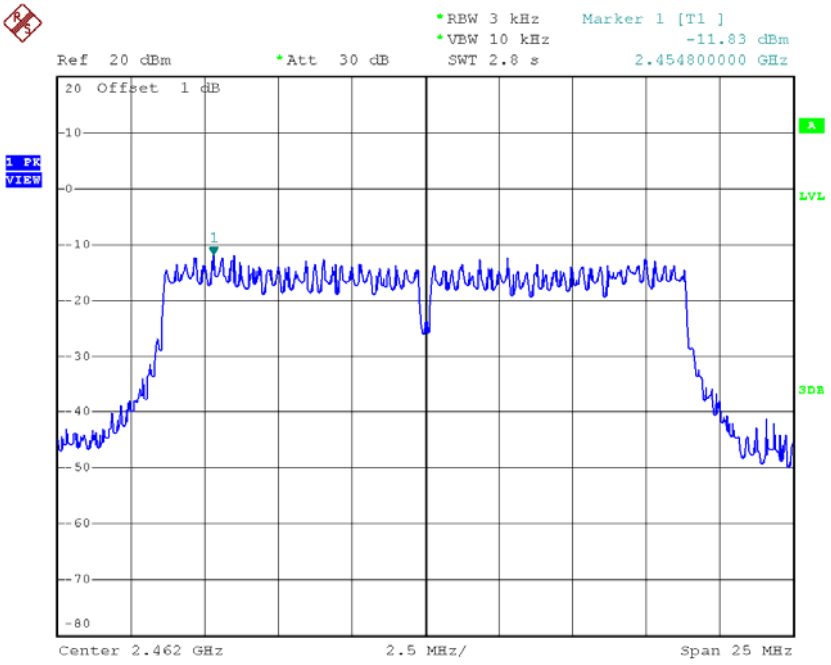


TX CH06



Date: 19.JUL.2015 09:50:57

TX CH11

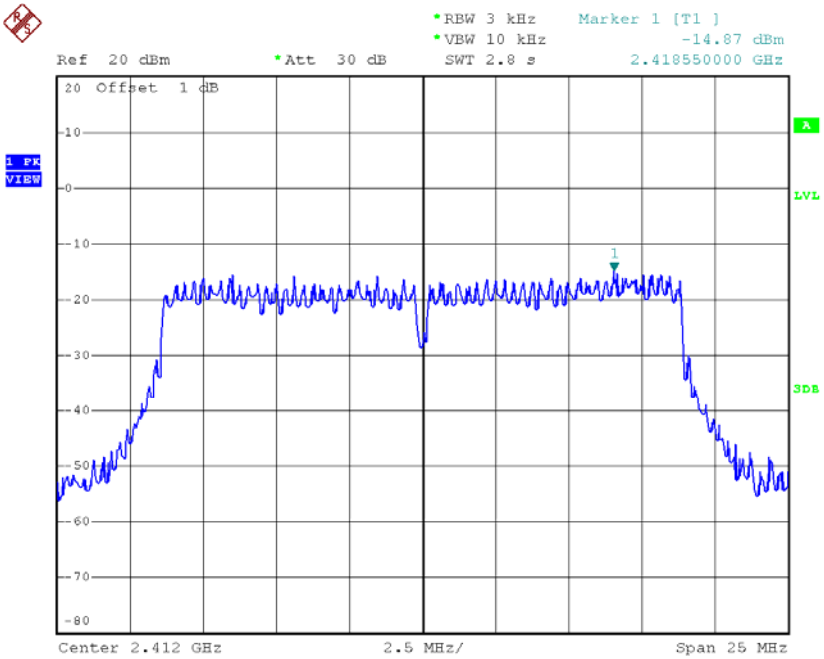


Date: 19.JUL.2015 09:52:54

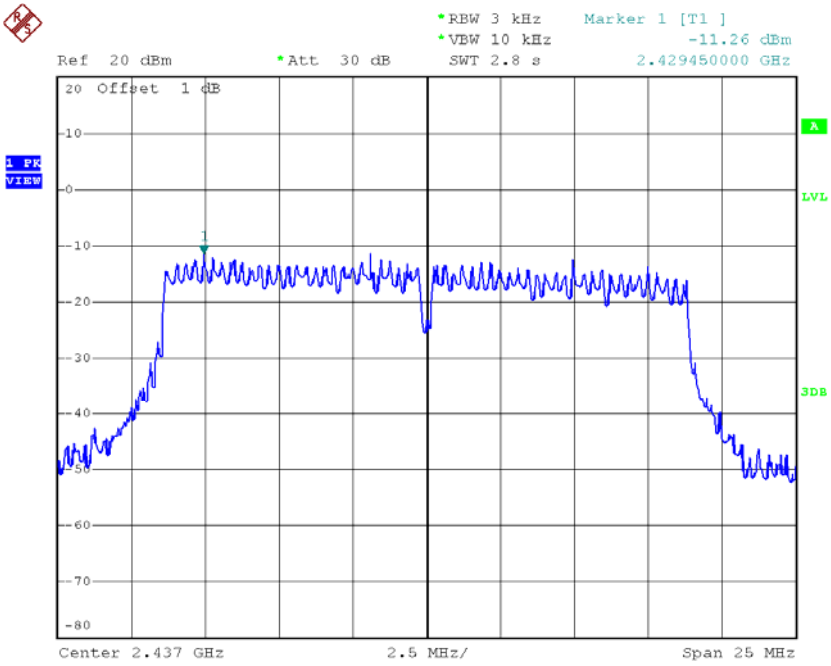
Test Mode : TX N-20M Mode_CH01/06/11_ANT 2

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2412	-14.87	0.03	8.00	Complies
2437	-11.26	0.07	8.00	Complies
2462	-12.75	0.05	8.00	Complies

TX CH01

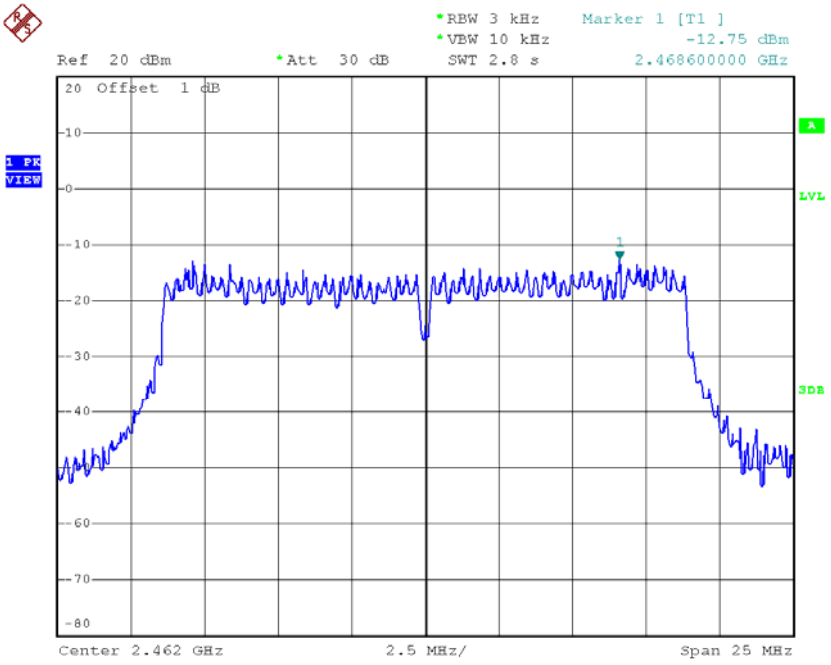


TX CH06



Date: 19.JUL.2015 09:57:05

TX CH11



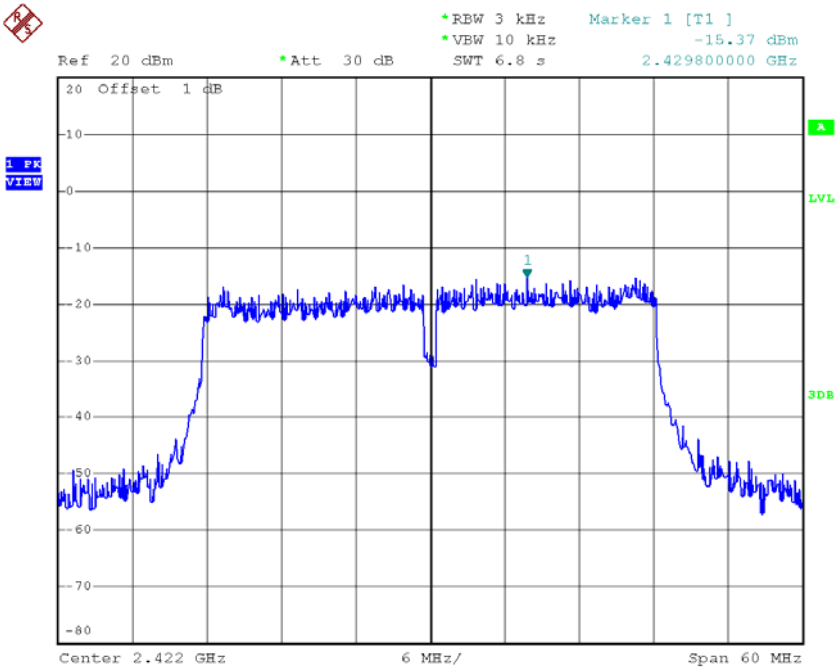
Date: 19.JUL.2015 09:58:29

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	-10.46	0.09	8.00	Complies
2437	-7.70	0.17	8.00	Complies
2462	-9.21	0.12	8.00	Complies

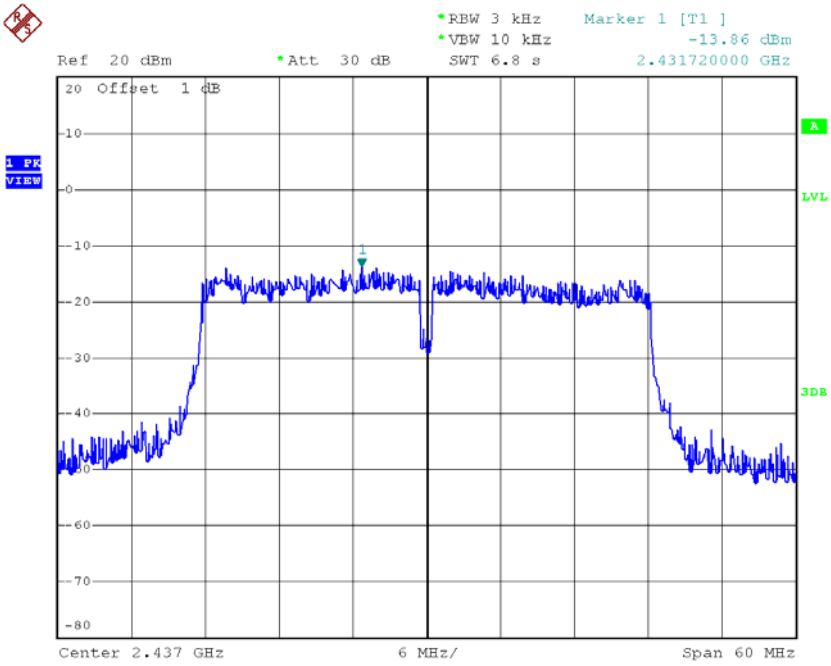
Test Mode : TX N-40M Mode_CH03/06/09_ANT 1				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-15.37	0.03	8.00	Complies
2437	-13.86	0.04	8.00	Complies
2452	-15.00	0.03	8.00	Complies

TX CH03



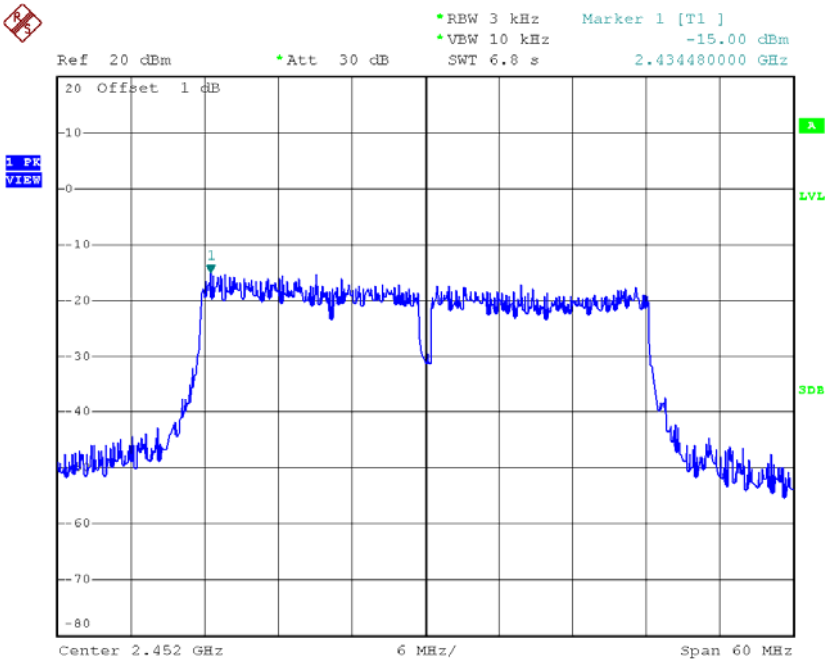
Date: 19.JUL.2015 10:03:53

TX CH06



Date: 19.JUL.2015 10:05:34

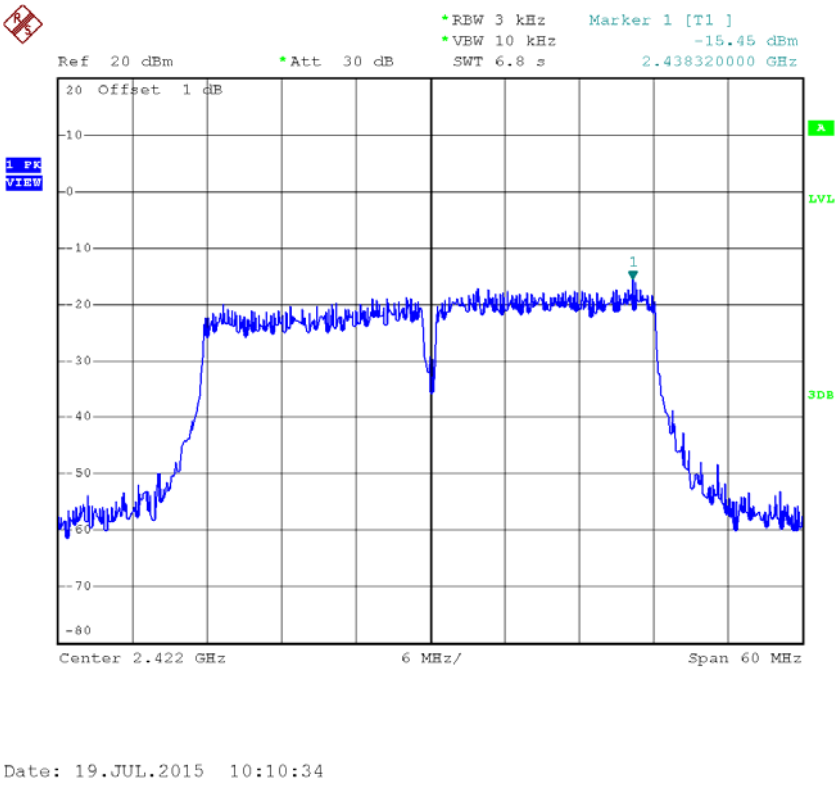
TX CH09



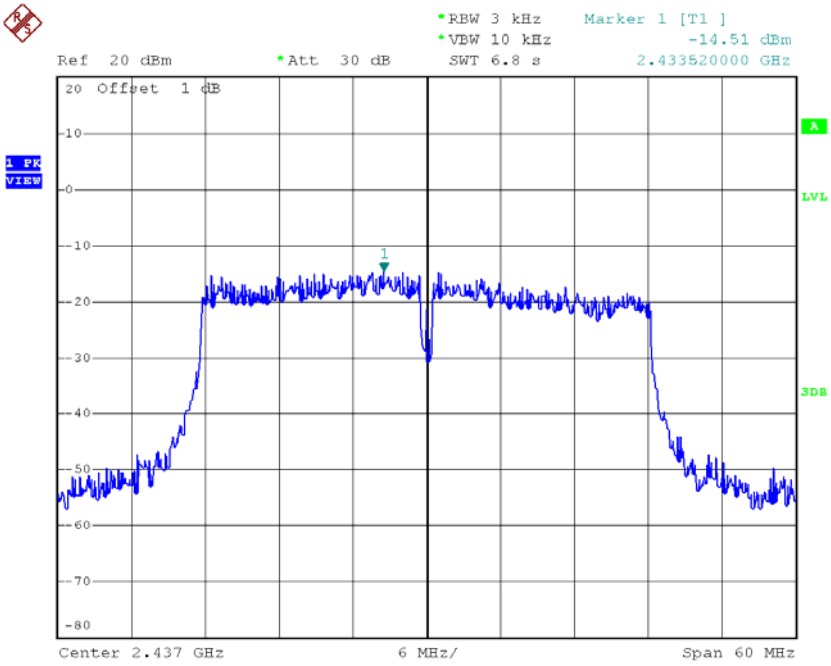
Date: 19.JUL.2015 10:07:41

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	-15.45	0.03	8.00	Complies
2437	-14.51	0.04	8.00	Complies
2452	-15.00	0.03	8.00	Complies

TX CH03

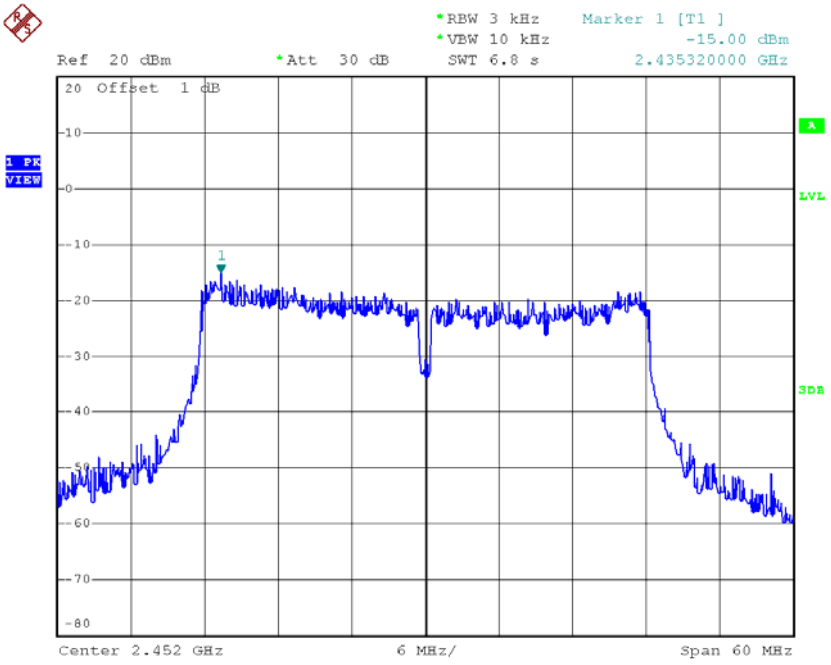


TX CH06



Date: 19.JUL.2015 10:11:54

TX CH09



Date: 19.JUL.2015 10:13:20

Test Mode : TX N-40M Mode_CH03/06/09_Total				
Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Result
2422	-12.22	0.06	8.00	Complies
2437	-10.97	0.08	8.00	Complies
2452	-12.22	0.06	8.00	Complies