

FCC Radio Test Report

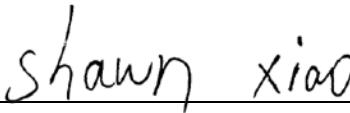
FCC ID: V7TMESH3-18

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

Project No. : 1804C051
Equipment : Whole Home Mesh WiFi System
Test Model : Mesh3
Series Model : MW6
Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD
Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Date of Receipt : Apr. 11, 2018
Date of Test : Apr. 13, 2018 ~ Apr. 27, 2018
Issued Date : May. 07, 2018
Tested by : BTL Inc.

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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-1-1804C051	Original Issue.	May. 07, 2018

1. CERTIFICATION

Equipment : Whole Home Mesh WiFi System
Brand Name : Tenda
Test Model : Mesh3
Series Model : MW6
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 : Apr. 13, 2018 ~ Apr. 27, 2018
Test Sample : Engineering Sample NO.: D180403018
Standard(s) : FCC Part15, Subpart C:(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-1-1804C051) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP 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			
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	
15.247(d)/ 15.205/ 15.209	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: 854385

Designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) $k=1.96$ or $k=2$ (which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, $U=2\times U_c(y)$.

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

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

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9KHz~30MHz	V	3.79
		9KHz~30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	H	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	H	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	H	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Whole Home Mesh WiFi System		
Brand Name	Tenda		
Test Model	Mesh3		
Series Model	MW6		
Model Difference	Only difference in model number.		
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.) – Non Beamforming	802.11b: 27.61dBm 802.11g: 27.79dBm 802.11n(20MHz): 27.6dBm 802.11n(40MHz): 27.67dBm	
	Output Power (Max.) – Beamforming	802.11n(20MHz): 27.43dBm 802.11n(40MHz): 27.49dBm	
	Power Source	DC Voltage supplied from AC/DC adapter. Model: BN071-A12012U	
Power Rating	I/P: 100-240V~ 50/60Hz 0.4A O/P: 12V—1A		

Note:

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

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

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Tenda	N/A	Internal	N/A	3.00	N/A
2	Tenda	N/A	Internal	N/A	3.00	N/A

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R), all transmit signals are completely correlated, then , Direction gain = $G_{ANT}+10\log(N)dBi=3+10\log(2)$, that is Directional gain=6.01.

So, the out power limit is $30-6.01+6=29.99$, the power density limit is $8-6.01+6=7.99$

(2) Beamforming Gain: 3 dBi.

4. The worst case as follow:

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

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

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

For Band Edge 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

6dB Spectrum Bandwidth	
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

Maximum Conducted Output Power	
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

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

Note:

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

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

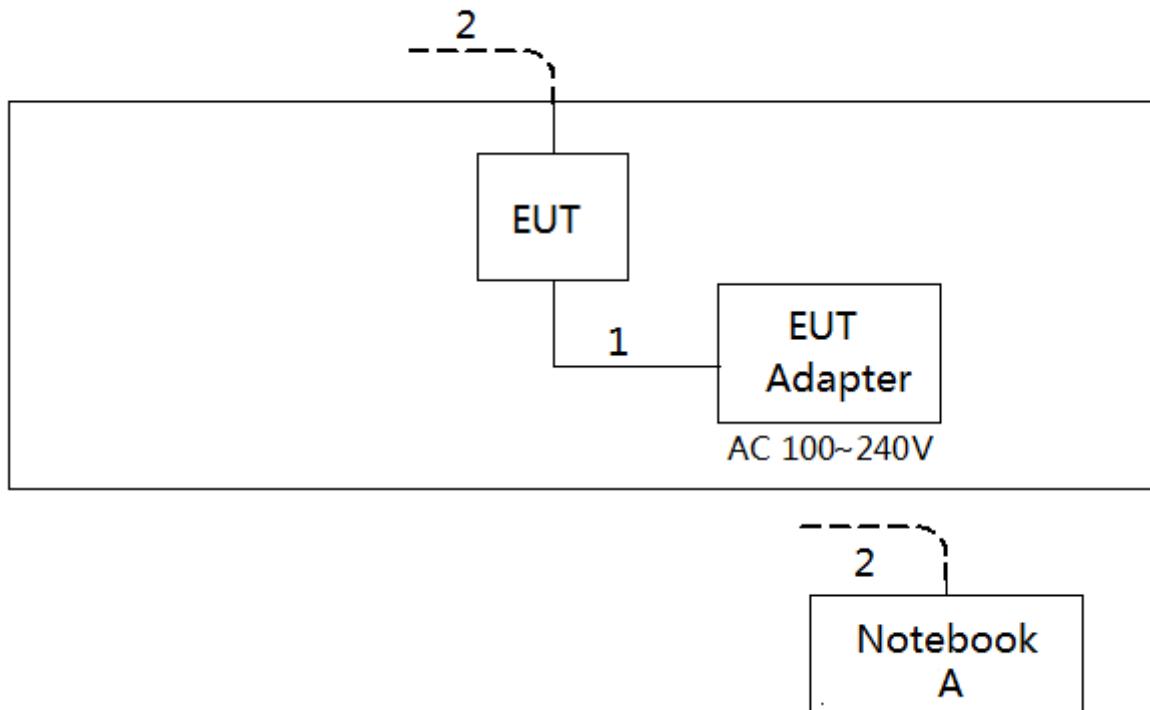
Non Beamforming

Test software version	MP_TEST		
Frequency (MHz)	2412	2437	2462
802.11b	42	44	45
802.11g	31	31	32
802.11n (20MHz)	24/22	27/23	29/24
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	26/23	28/24	29/24

Beamforming

Test software version	MP_TEST		
Frequency (MHz)	2412	2437	2462
802.11n (20MHz)	24/22	27/23	29/24
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	26/23	28/24	29/24

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	Notebook	Lenovo	INSPIRON 1420	DOC	JX193A01SDC2

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	DC Cable
2	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 (dB μ V)	
	Quasi-peak	Average
0.15 -0.50	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	60	50

Note:

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

The following table is the setting of the receiver

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

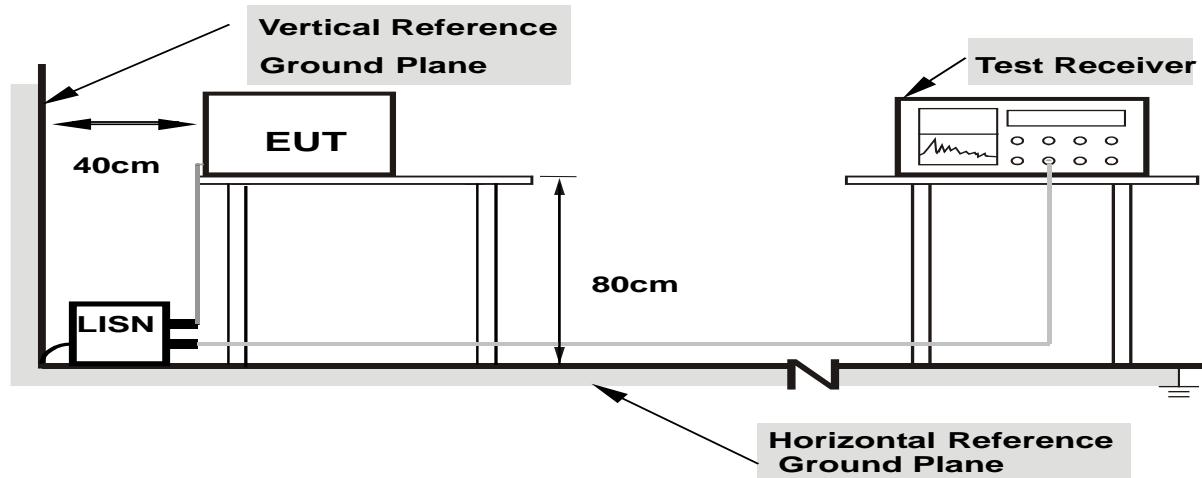
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment 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 Appendix A.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

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

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

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

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

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

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

4.2.2 TEST PROCEDURE

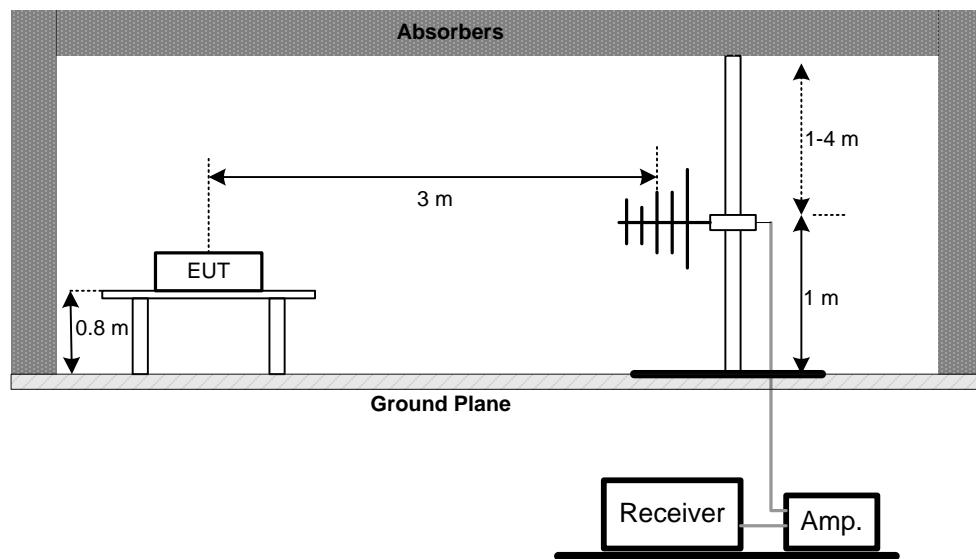
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of 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 0.8m 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.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- 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.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

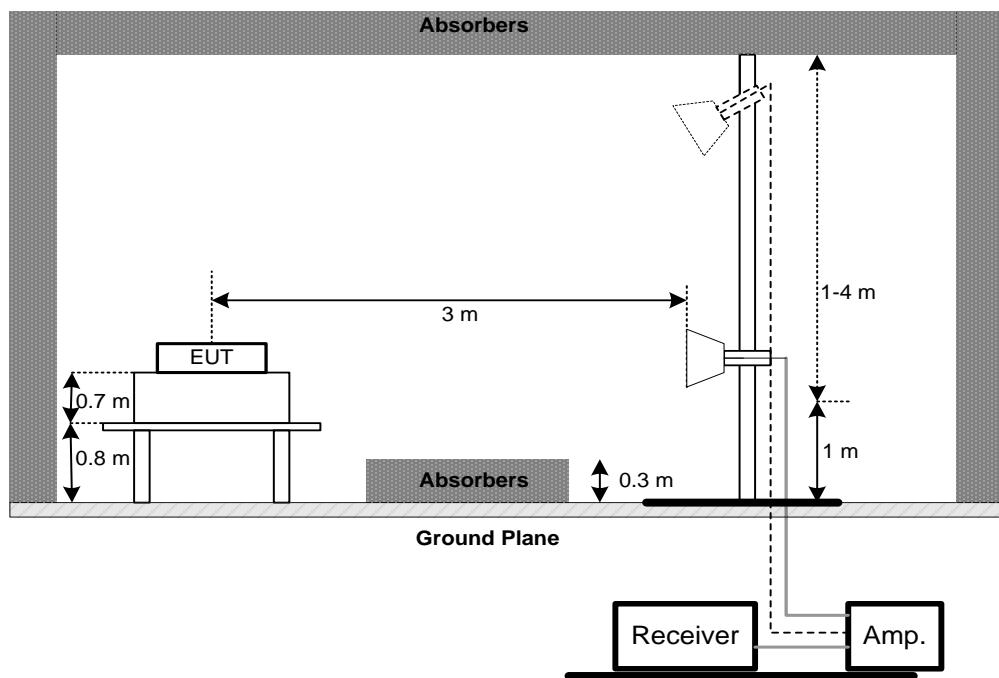
No deviation

4.2.4 TEST SETUP

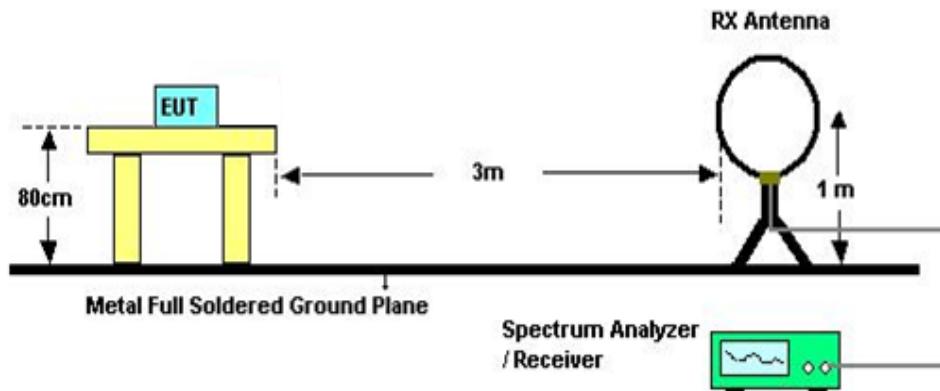
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For Radiated Emissions Below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

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

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix 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 (dB_{UV}) + distance extrapolation factor.

4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

4.2.9 TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix 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 Appendix 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 and FCC KDB 662911 D01 Multiple Transmitter Output.

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 Appendix 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 Appendix 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

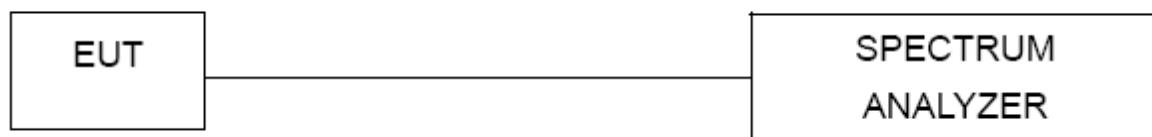
8.1.1 TEST PROCEDURE

- 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 Appendix H.

9. MEASUREMENT INSTRUMENTS LIST

Conducted Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	Cable	N/A	RG223	12m	Oct. 19, 2018

Radiated Emission Below 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
4	Cable	emci	LMR-400(30MHz-1GHz)(8m+5m)	N/A	Jun. 26, 2018
5	Controller	CT	SC100	N/A	N/A
6	Controller	MF	MF-7802	MF780208416	N/A
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
8	Antenna	EM	EM-6876-1	230	Feb. 07, 2019

Radiated Emission Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
6	Controller	CT	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

6dB Bandwidth					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Peak Output Power					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Aug. 20, 2018
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Aug. 20, 2018

Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Power Spectral Density					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

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

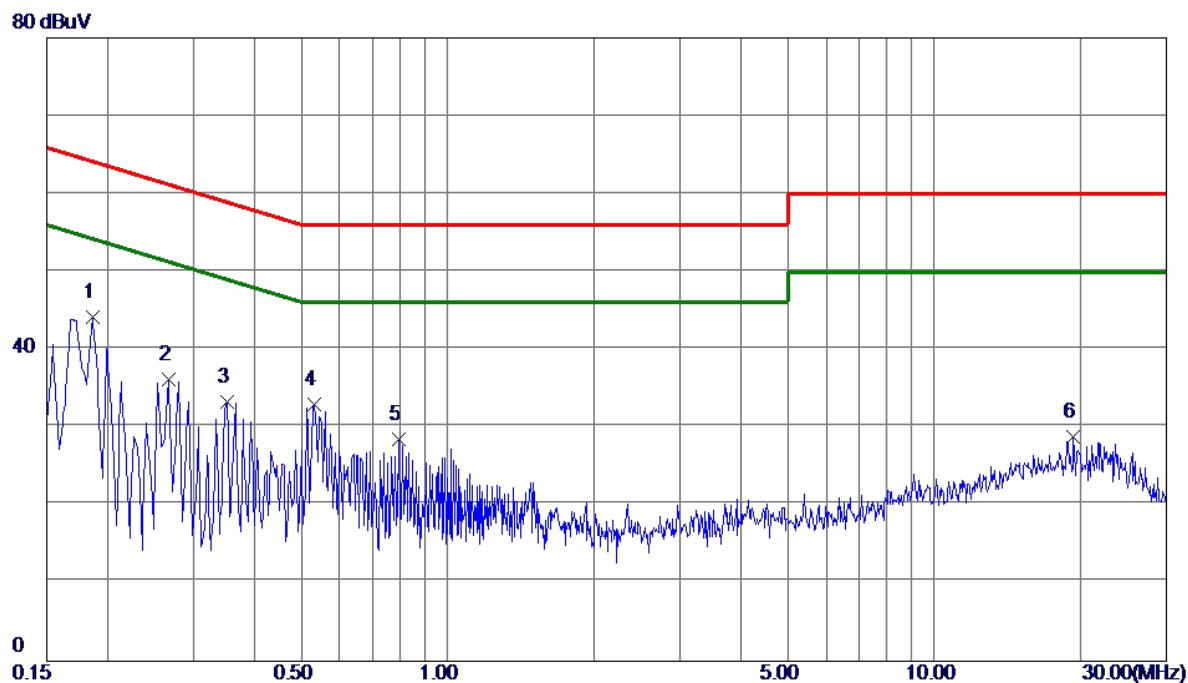
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link

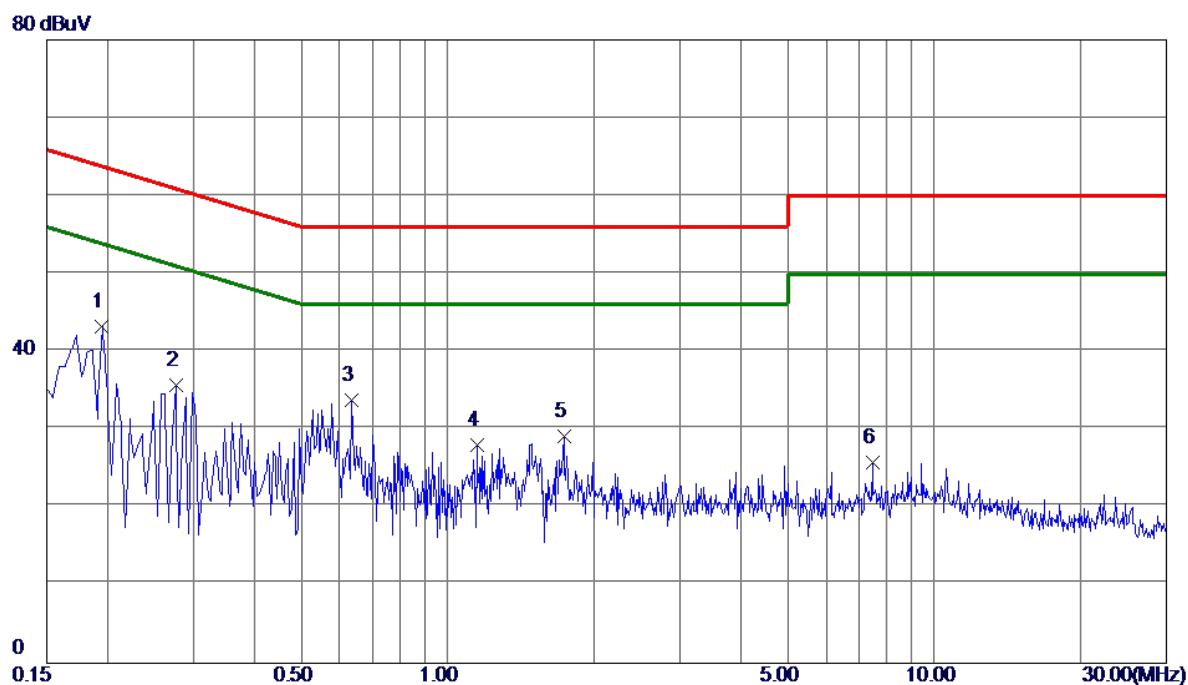
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1860	34.34	9.82	44.16	64.21	-20.05	Peak	
2	0.2670	26.34	9.82	36.16	61.21	-25.05	Peak	
3	0.3525	23.49	9.81	33.30	58.90	-25.60	Peak	
4	0.5325	23.20	9.80	33.00	56.00	-23.00	Peak	
5	0.7935	18.51	9.91	28.42	56.00	-27.58	Peak	
6	19.3425	17.66	11.13	28.79	60.00	-31.21	Peak	

Test Mode : Normal Link

Neutral

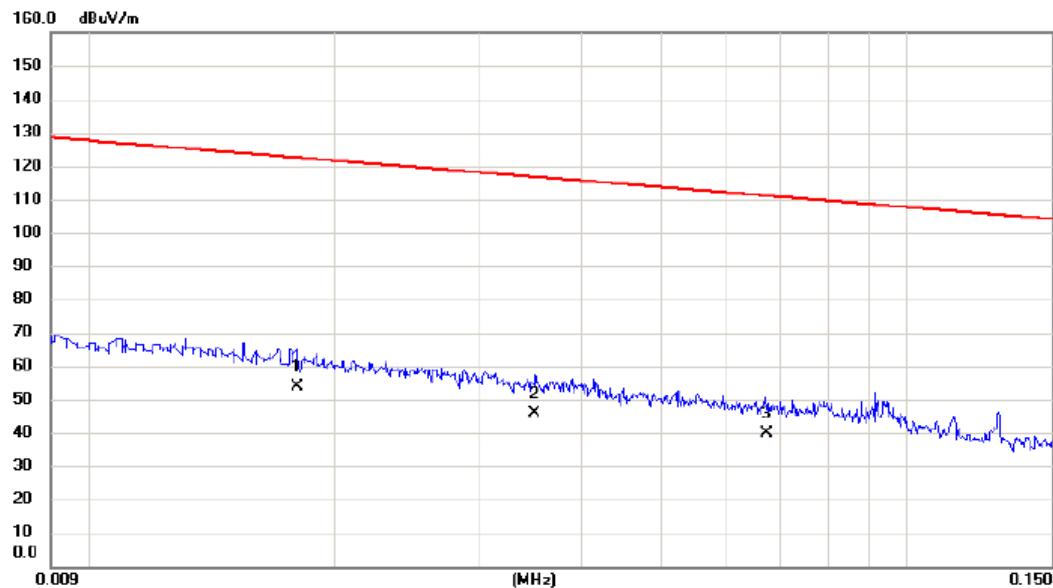


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1949	33.34	9.91	43.25	63.83	-20.58	Peak	
2	0.2760	25.69	9.93	35.62	60.94	-25.32	Peak	
3	0.6360	23.83	10.00	33.83	56.00	-22.17	Peak	
4	1.1490	17.83	10.13	27.96	56.00	-28.04	Peak	
5	1.7340	18.93	10.17	29.10	56.00	-26.90	Peak	
6	7.4625	15.18	10.61	25.79	60.00	-34.21	Peak	

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

Test Mode: TX MODE

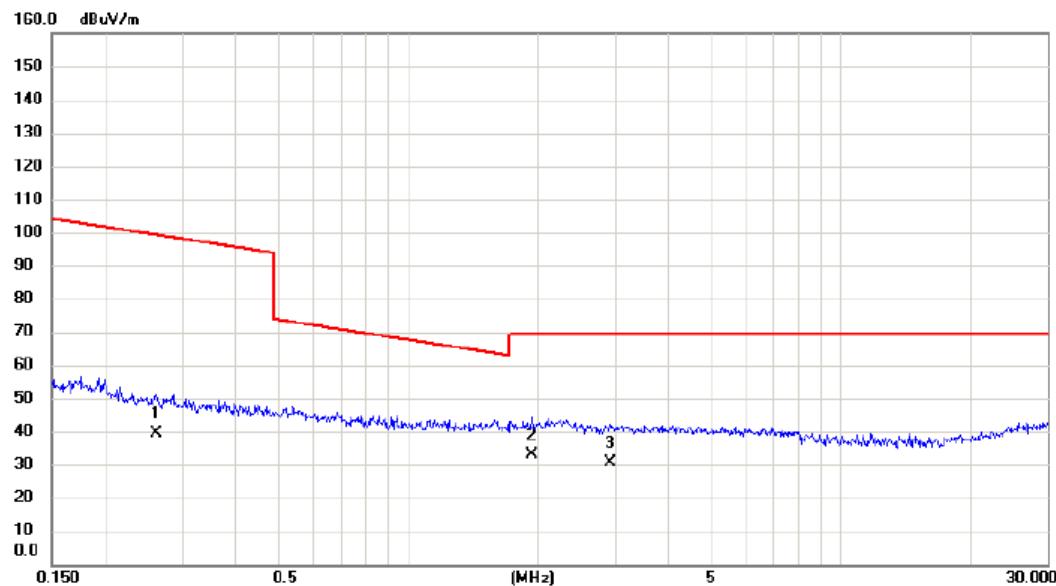
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1	*	0.0180	33.81	19.88	53.69	122.50	-68.81	AVG
2		0.0351	26.70	19.17	45.87	116.70	-70.83	AVG
3		0.0673	21.50	18.38	39.88	111.04	-71.16	AVG

Test Mode: TX MODE

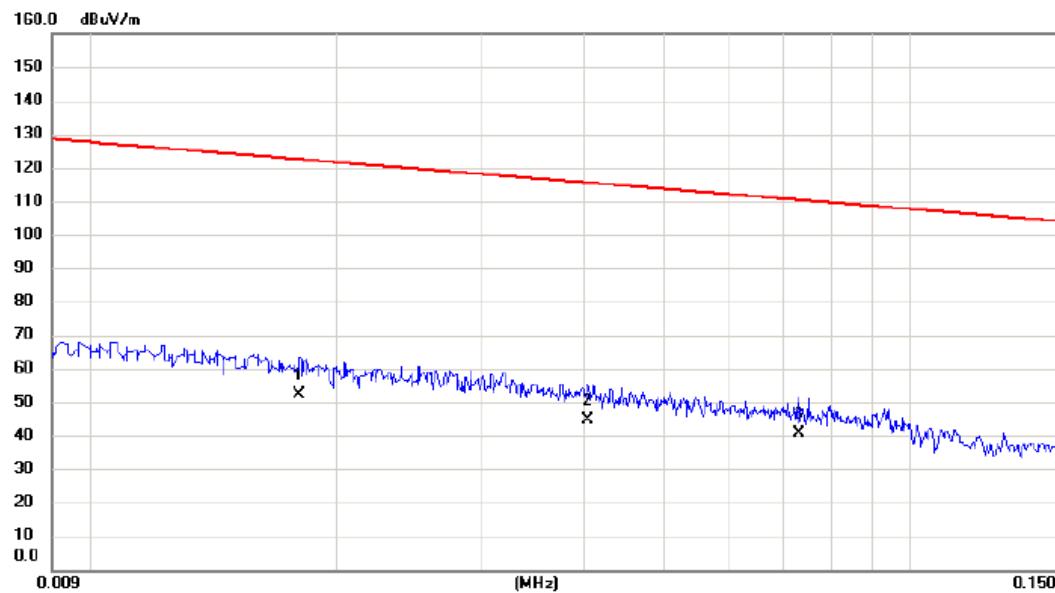
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment
1		0.2615	22.70	16.65	39.35	99.26	-59.91	AVG
2	*	1.9284	17.50	15.54	33.04	69.54	-36.50	QP
3		2.9307	15.30	15.25	30.55	69.54	-38.99	QP

Test Mode: TX MODE

Ant 90°



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	
		MHz	dBuV/m	dB	dBuV/m	dB	Detector	Comment
1		0.0180	32.50	19.88	52.38	122.50	-70.12	AVG
2		0.0404	25.60	19.01	44.61	115.48	-70.87	AVG
3 *		0.0730	22.30	18.27	40.57	110.34	-69.77	AVG

Test Mode: TX MODE

Ant 90°

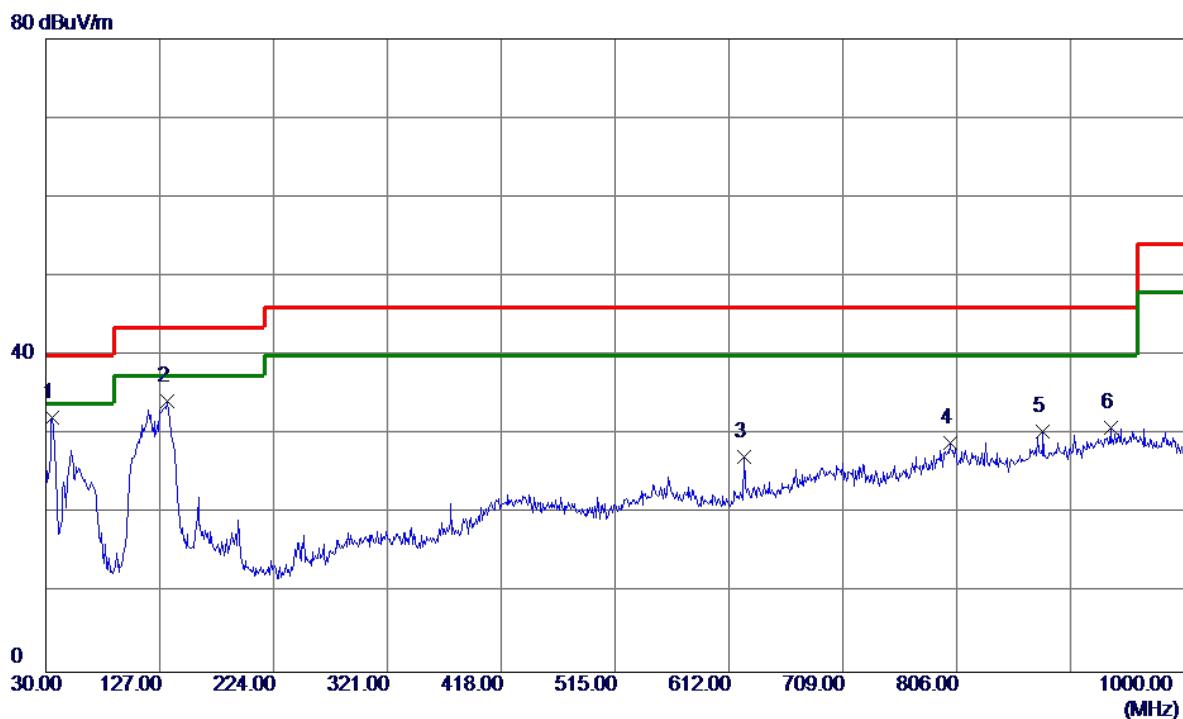


No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor	Measure- ment dBuV/m	Limit dB	Margin	Detector	Comment
1		0.1965	30.50	16.81	47.31	101.74	-54.43	AVG	
2	*	0.6173	28.10	16.33	44.43	71.79	-27.36	QP	
3		2.1783	23.90	15.46	39.36	69.54	-30.18	QP	

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

Test Mode: TX B MODE CHANNEL 01

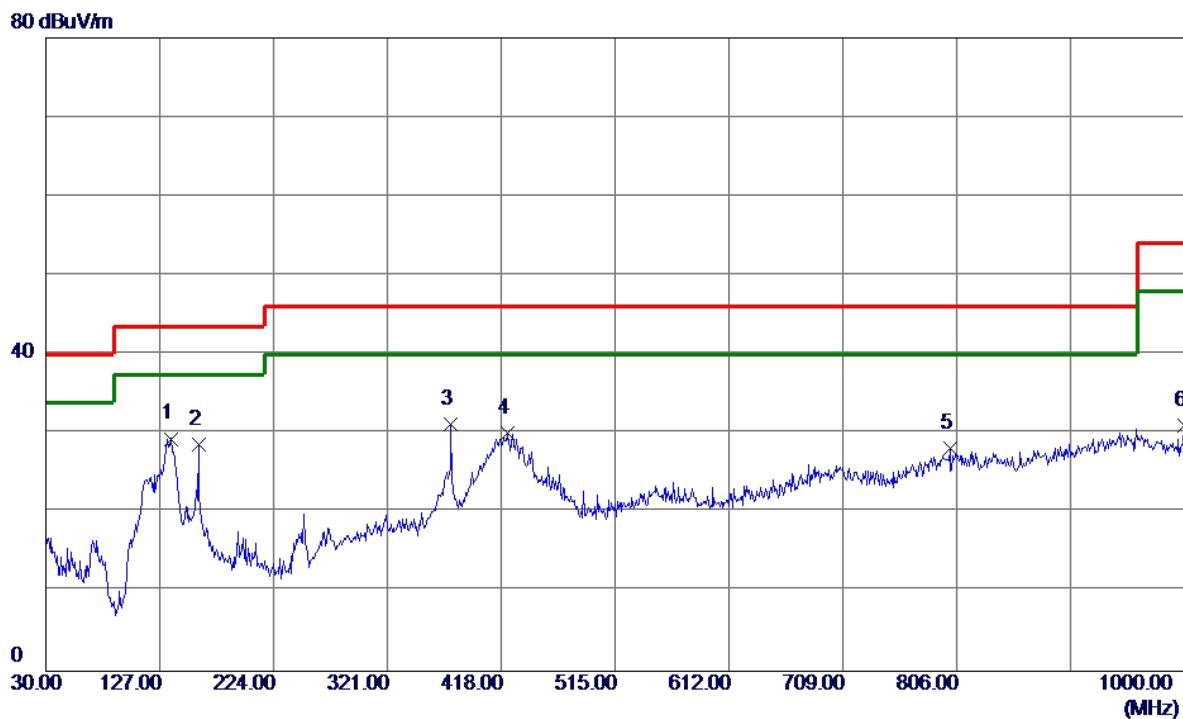
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment	
							Detector	Comment
1 *	35.8200	47.46	-15.35	32.11	40.00	-7.89	Peak	
2	133.7899	47.76	-13.56	34.20	43.50	-9.30	Peak	
3	624.6100	33.64	-6.43	27.21	46.00	-18.79	Peak	
4	800.1800	30.65	-1.62	29.03	46.00	-16.97	Peak	
5	879.7200	32.07	-1.62	30.45	46.00	-15.55	Peak	
6	936.9500	30.51	0.39	30.90	46.00	-15.10	Peak	

Test Mode: TX B MODE CHANNEL 01

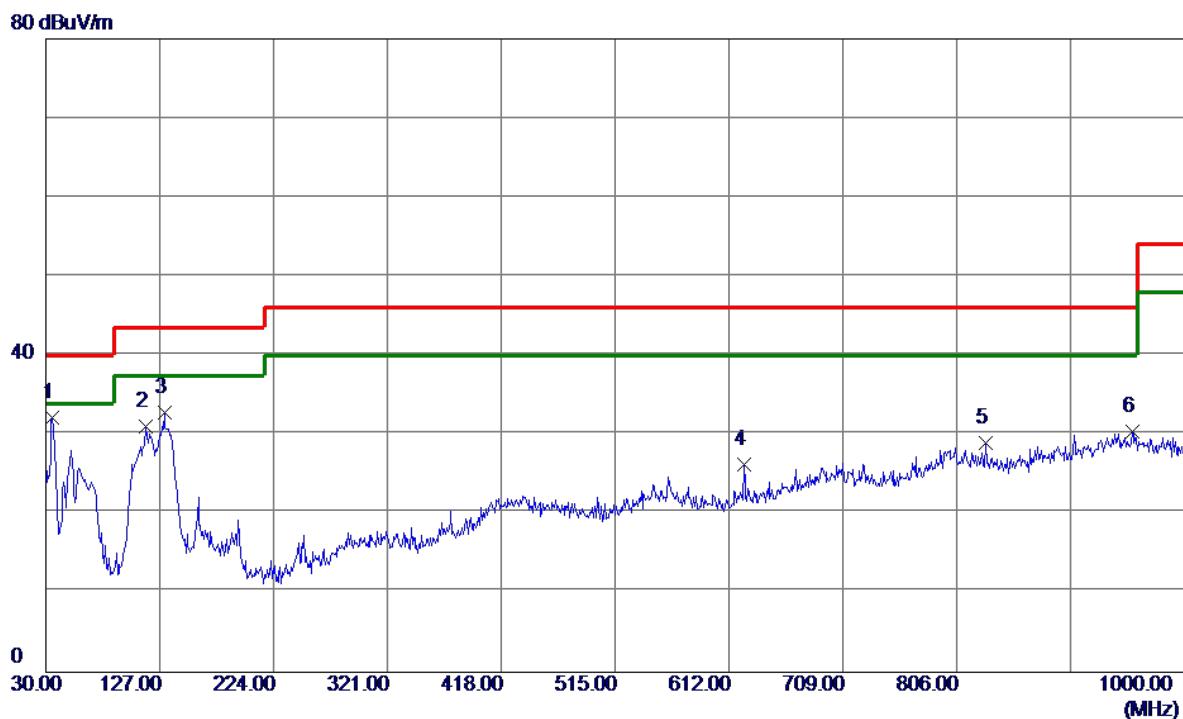
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	136.7000	42.55	-13.19	29.36	43.50	-14.14	Peak	
2	159.9800	39.93	-11.30	28.63	43.50	-14.87	Peak	
3	375.3200	42.10	-10.94	31.16	46.00	-14.84	Peak	
4	422.8500	39.33	-9.19	30.14	46.00	-15.86	Peak	
5	800.1800	29.79	-1.62	28.17	46.00	-17.83	Peak	
6	1000.0000	31.20	-0.23	30.97	54.00	-23.03	Peak	

Test Mode: TX B MODE CHANNEL 06

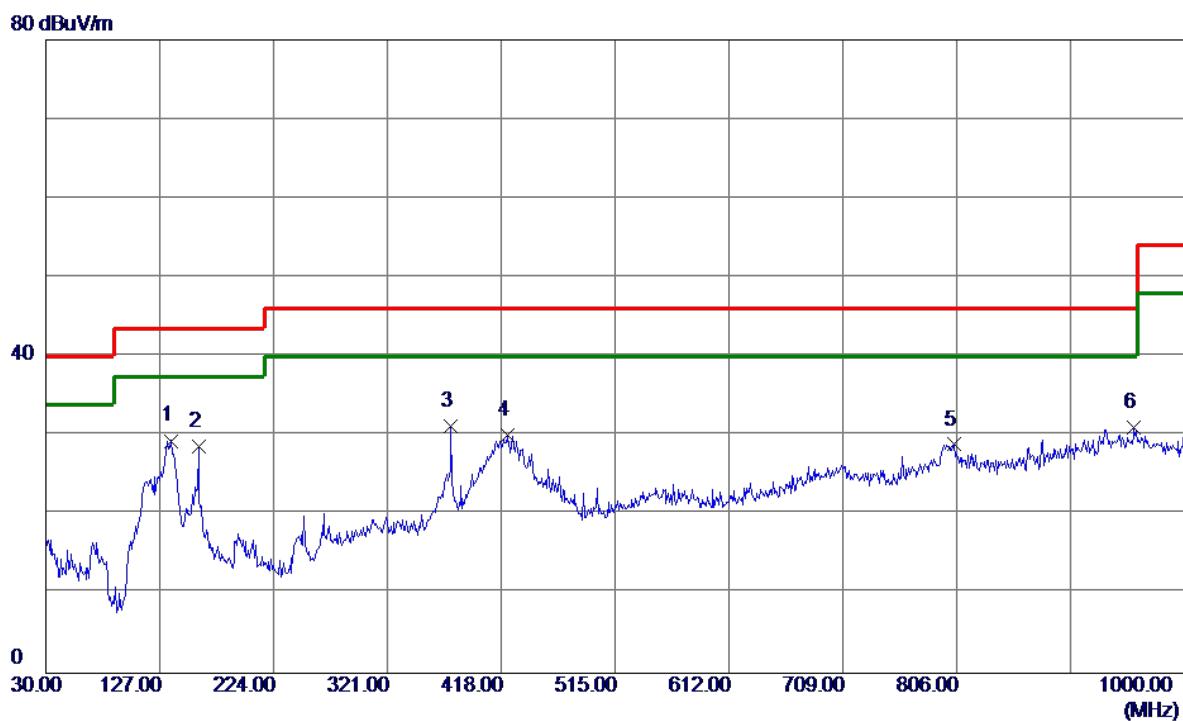
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m dB	Margin Detector	Comment
1 *	35.8200	47.46	-15.35	32.11	40.00	-7.89	Peak
2	115.3600	47.07	-16.06	31.01	43.50	-12.49	Peak
3	130.8800	46.70	-13.93	32.77	43.50	-10.73	Peak
4	624.6100	32.70	-6.43	26.27	46.00	-19.73	Peak
5	831.2199	30.97	-2.08	28.89	46.00	-17.11	Peak
6	955.3800	29.62	0.80	30.42	46.00	-15.58	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 *	136.7000	42.55	-13.19	29.36	43.50	-14.14	Peak	
2	159.9800	39.93	-11.30	28.63	43.50	-14.87	Peak	
3	375.3200	42.10	-10.94	31.16	46.00	-14.84	Peak	
4	422.8500	39.33	-9.19	30.14	46.00	-15.86	Peak	
5	804.0600	30.56	-1.68	28.88	46.00	-17.12	Peak	
6	957.3200	30.35	0.76	31.11	46.00	-14.89	Peak	

Test Mode: TX B MODE CHANNEL 11

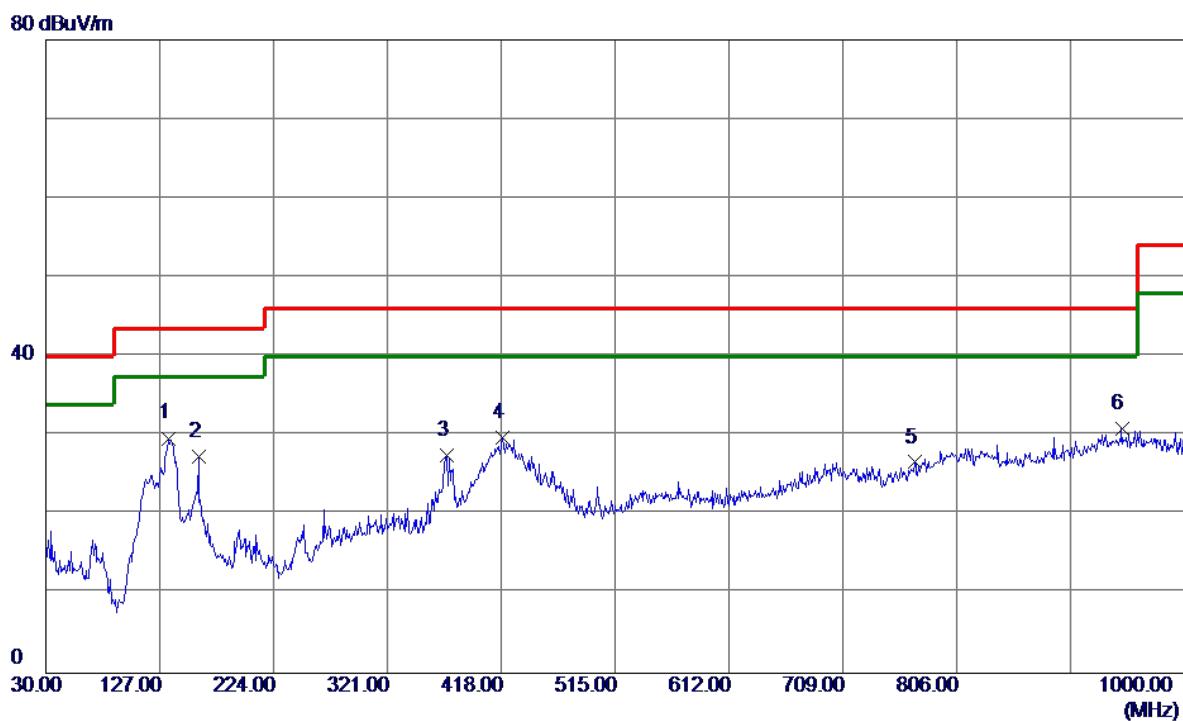
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dB	Margin Detector	Comment	
							Detector	Comment
1 *	35.8200	47.46	-15.35	32.11	40.00	-7.89	Peak	
2	135.7300	47.38	-13.31	34.07	43.50	-9.43	Peak	
3	443.2200	37.01	-8.38	28.63	46.00	-17.37	Peak	
4	624.6100	33.58	-6.43	27.15	46.00	-18.85	Peak	
5	800.1800	30.11	-1.62	28.49	46.00	-17.51	Peak	
6	972.8400	29.97	0.40	30.37	54.00	-23.63	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal



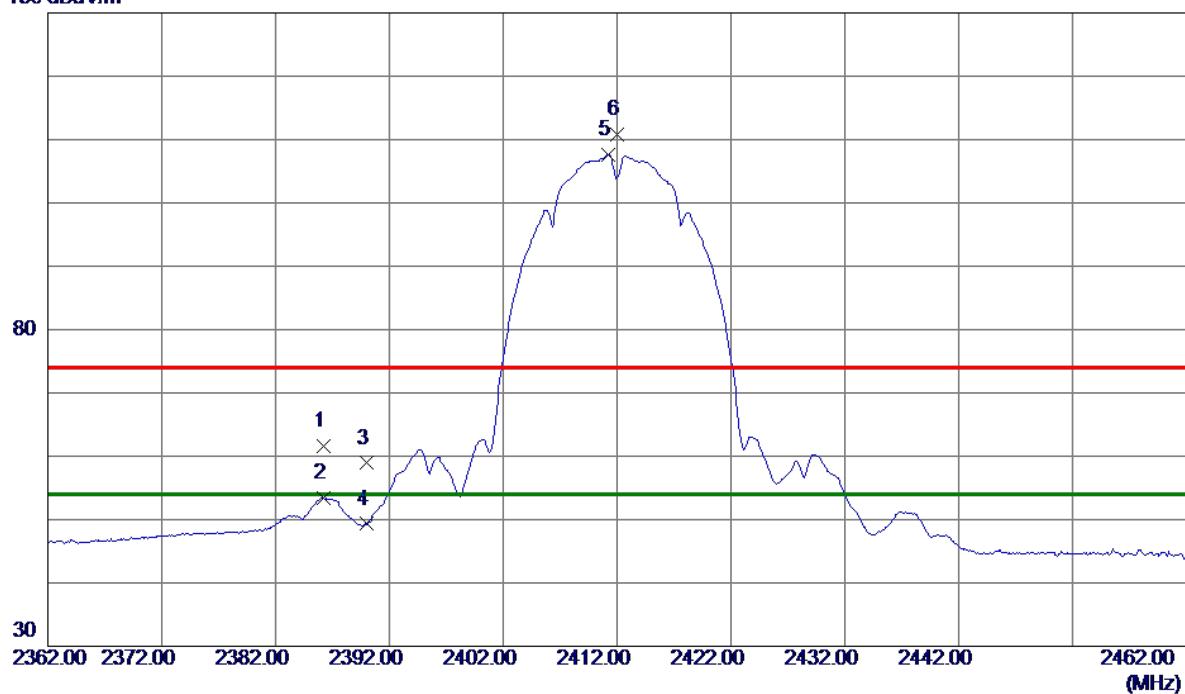
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit Level dBuV/m	Margin dB	Detector	Comment
1 *	134.7600	43.11	-13.43	29.68	43.50	-13.82	Peak	
2	159.9800	38.68	-11.30	27.38	43.50	-16.12	Peak	
3	371.4400	38.60	-11.08	27.52	46.00	-18.48	Peak	
4	418.9700	39.04	-9.34	29.70	46.00	-16.30	Peak	
5	770.1100	30.08	-3.44	26.64	46.00	-19.36	Peak	
6	946.6500	30.13	0.79	30.92	46.00	-15.08	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

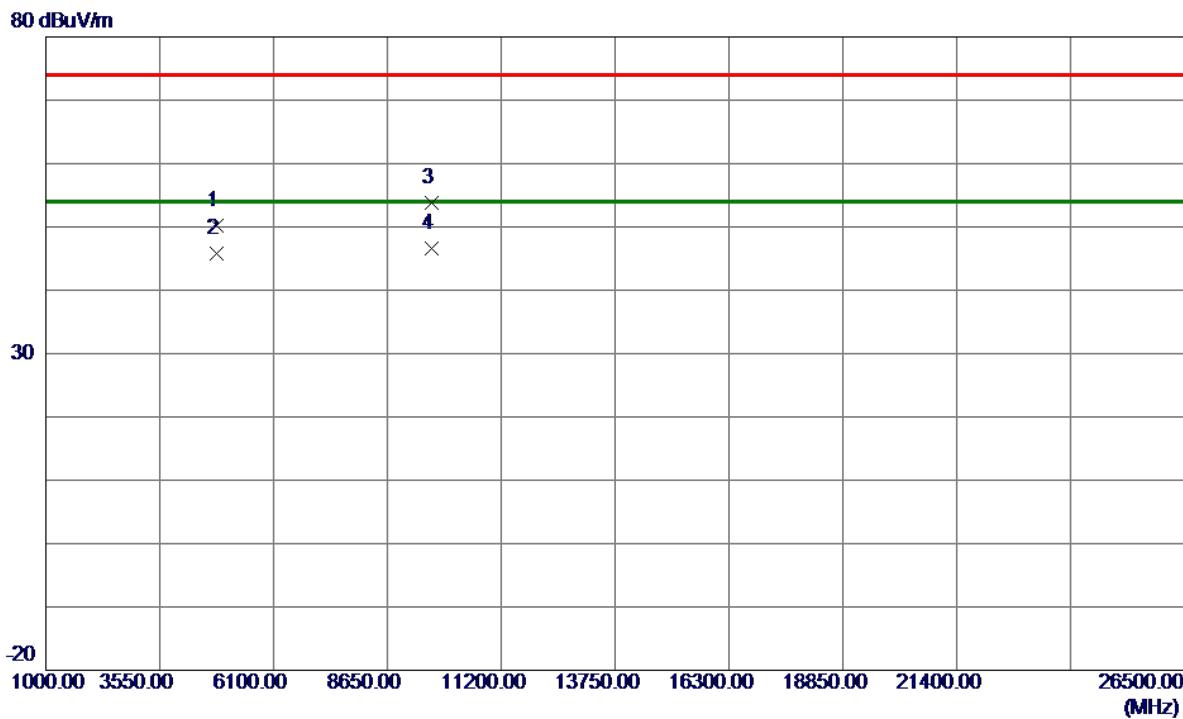
Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.2000	52.51	9.01	61.52	74.00	-12.48	Peak	
2	2386.2000	44.38	9.01	53.39	54.00	-0.61	Avg	
3	2390.0000	49.90	9.00	58.90	74.00	-15.10	Peak	
4	2390.0000	40.30	9.00	49.30	54.00	-4.70	Avg	
5 *	2411.2000	98.59	9.00	107.59	54.00	53.59	Avg	No Limit
6	2412.0000	101.76	9.00	110.76	74.00	36.76	Peak	No Limit

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

Vertical

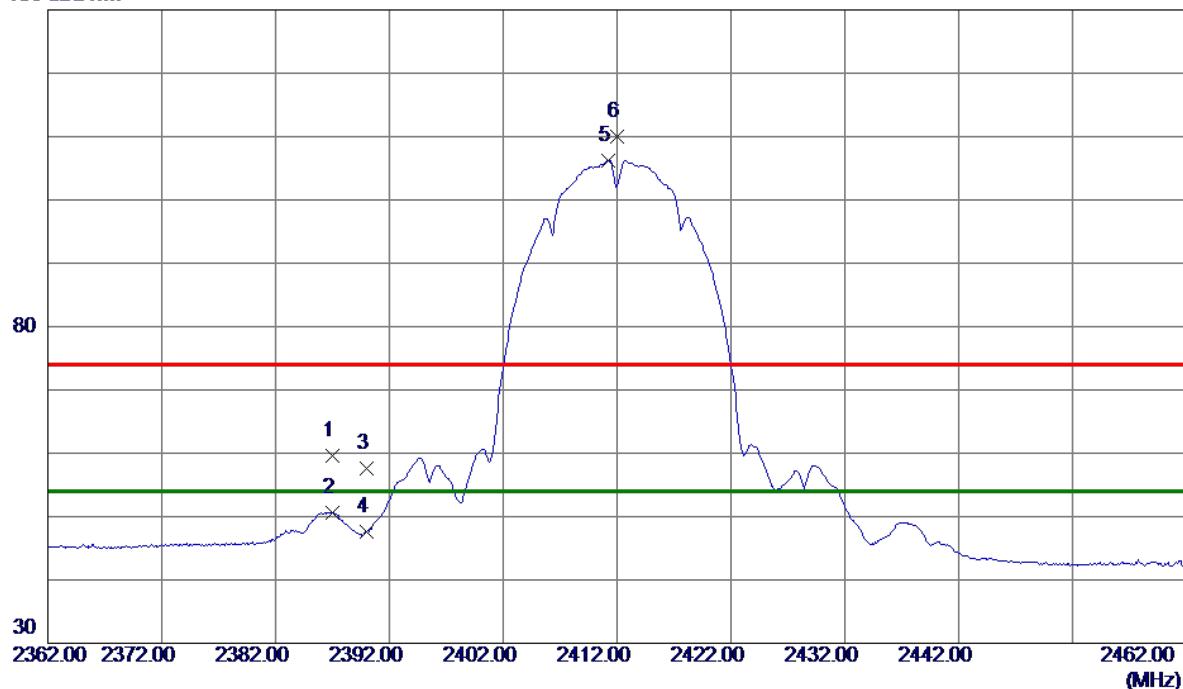
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4823.8700	44.44	5.78	50.22	74.00	-23.78	Peak	
2	4823.9620	40.06	5.78	45.84	54.00	-8.16	AVG	
3	9647.8400	39.75	13.97	53.72	74.00	-20.28	Peak	
4 *	9647.8940	32.57	13.97	46.54	54.00	-7.46	AVG	

Orthogonal Axis : X

Test Mode : TX B MODE 2412MHz

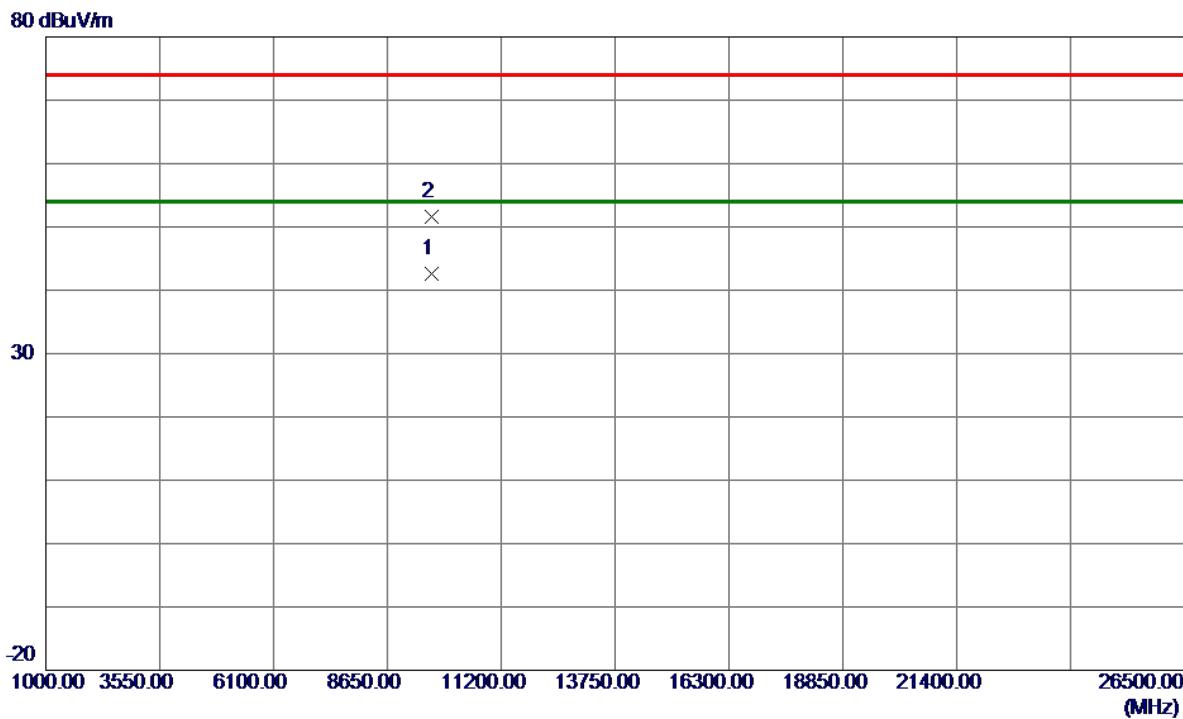
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2387.0000	50.57	9.01	59.58	74.00	-14.42	Peak	
2	2387.0000	41.68	9.01	50.69	54.00	-3.31	AVG	
3	2390.0000	48.58	9.00	57.58	74.00	-16.42	Peak	
4	2390.0000	38.53	9.00	47.53	54.00	-6.47	AVG	
5 *	2411.2000	97.28	9.00	106.28	54.00	52.28	AVG	No Limit
6	2412.0000	101.00	9.00	110.00	74.00	36.00	Peak	No Limit

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

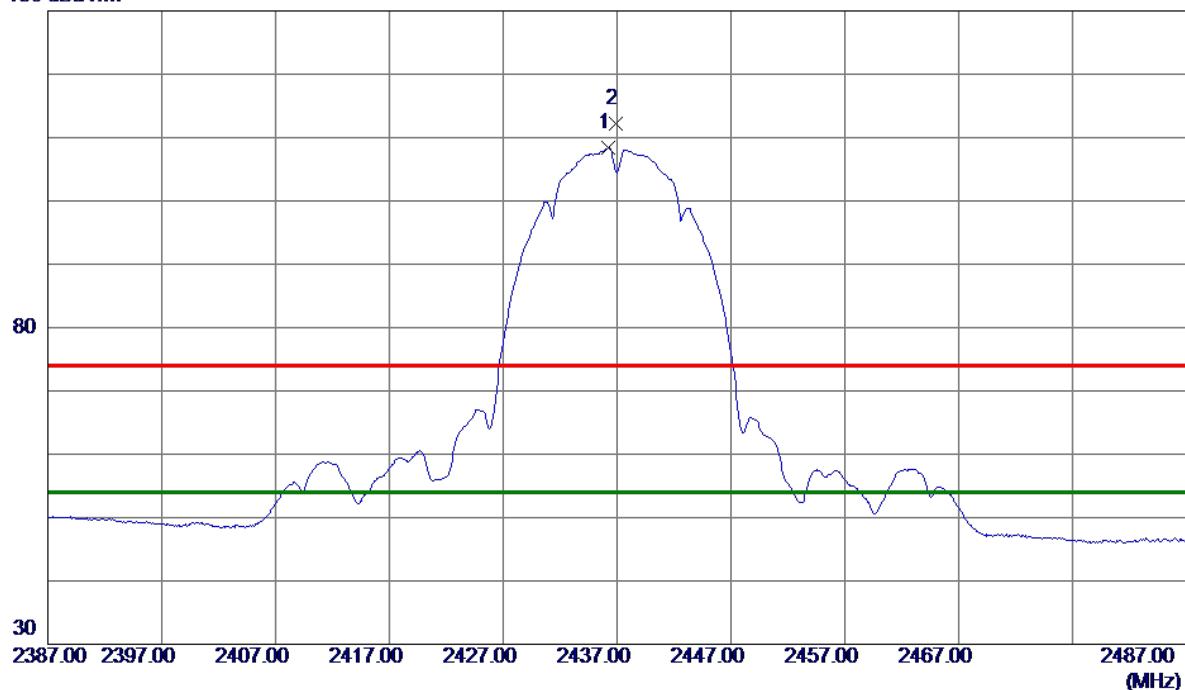
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9647.9120	28.70	13.97	42.67	54.00	-11.33	AVG	
2	9648.0560	37.69	13.97	51.66	74.00	-22.34	Peak	

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

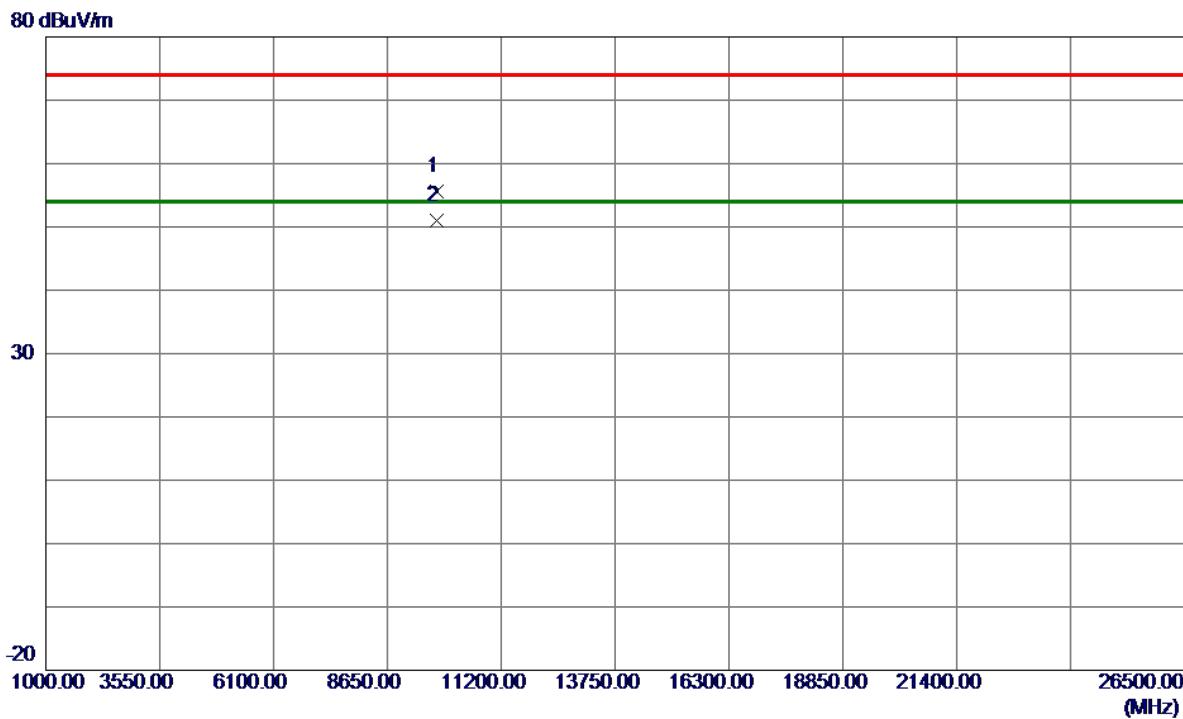
Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	99.33	8.99	108.32	54.00	54.32	AVG	No Limit
2	2436.9000	103.14	8.99	112.13	74.00	38.13	Peak	No Limit

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

Vertical

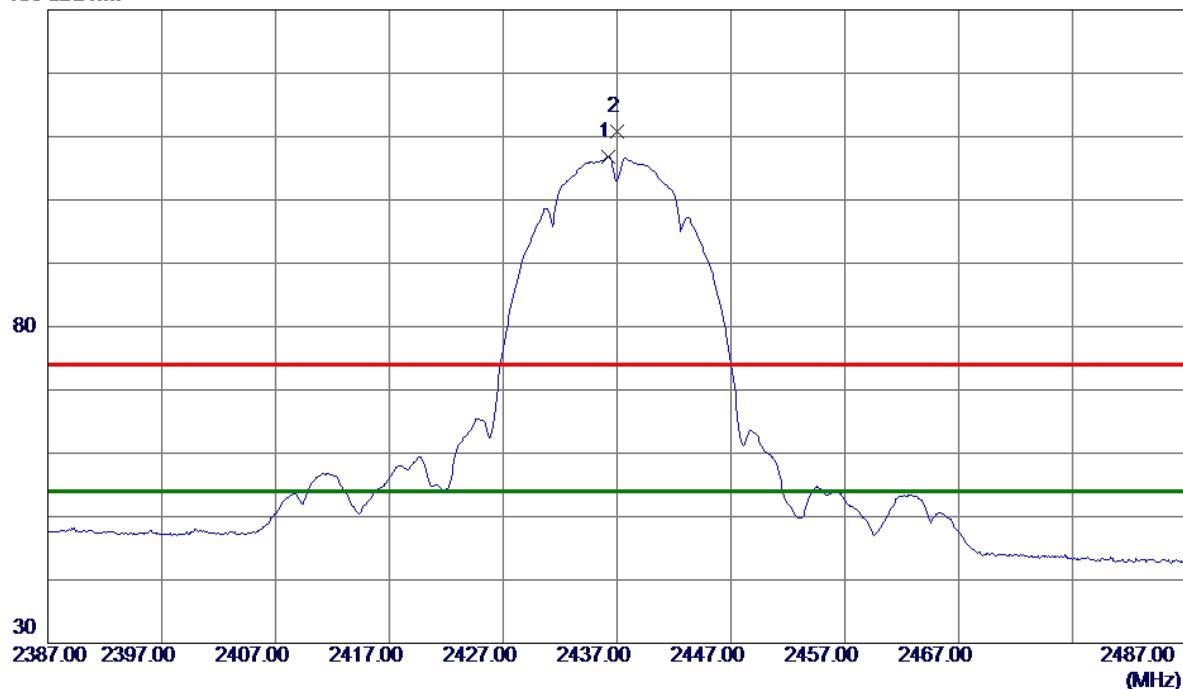
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.8060	41.65	14.04	55.69	74.00	-18.31	Peak	
2 *	9747.8740	36.89	14.04	50.93	54.00	-3.07	AVG	

Orthogonal Axis : X

Test Mode : TX B MODE 2437MHz

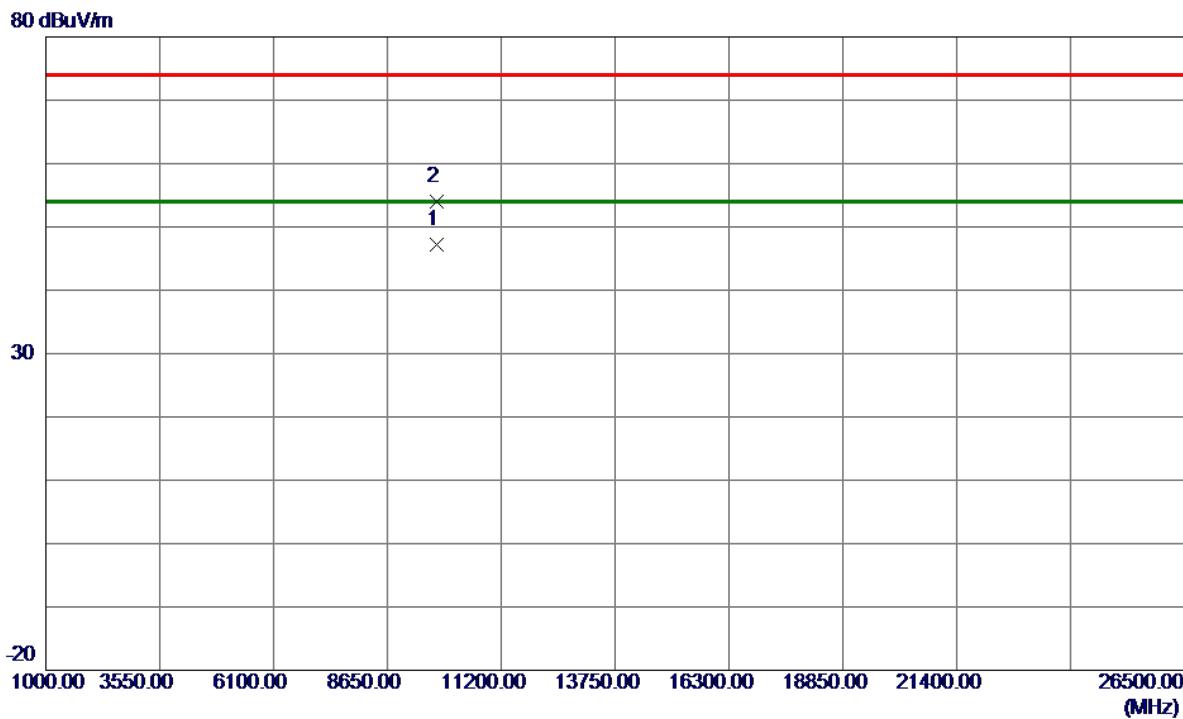
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	97.84	8.99	106.83	54.00	52.83	AVG	No Limit
2	2437.0000	101.74	8.99	110.73	74.00	36.73	Peak	No Limit

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

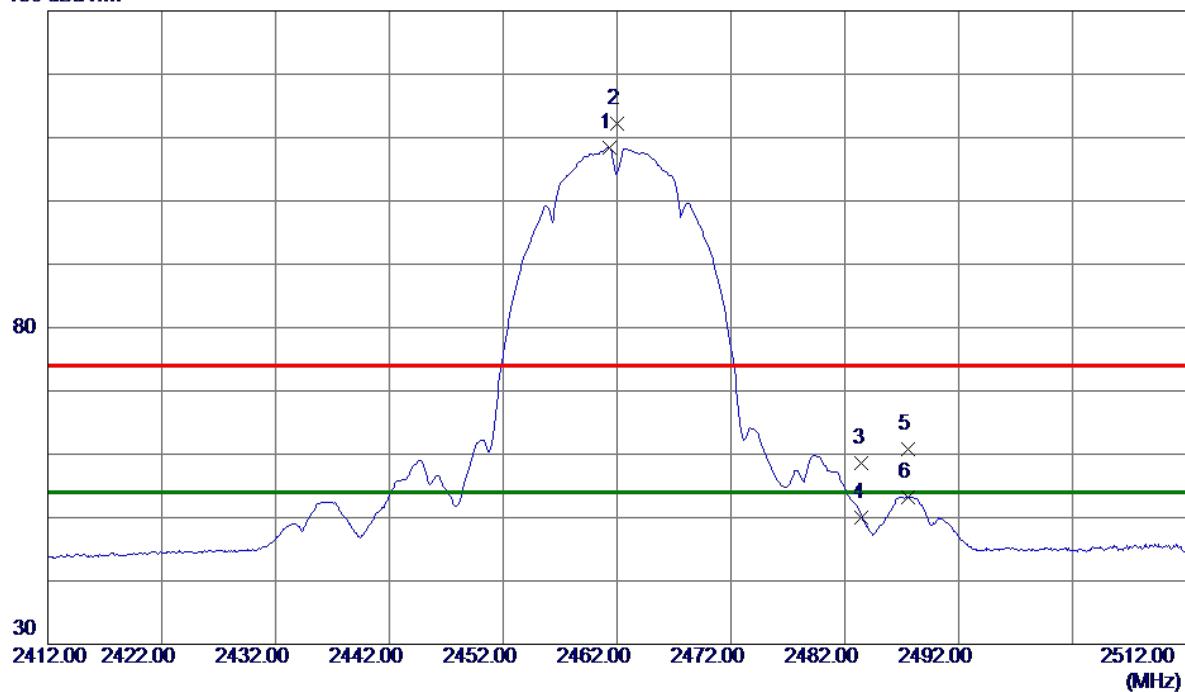
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.8680	33.13	14.04	47.17	54.00	-6.83	AVG	
2	9748.0000	39.91	14.04	53.95	74.00	-20.05	Peak	

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

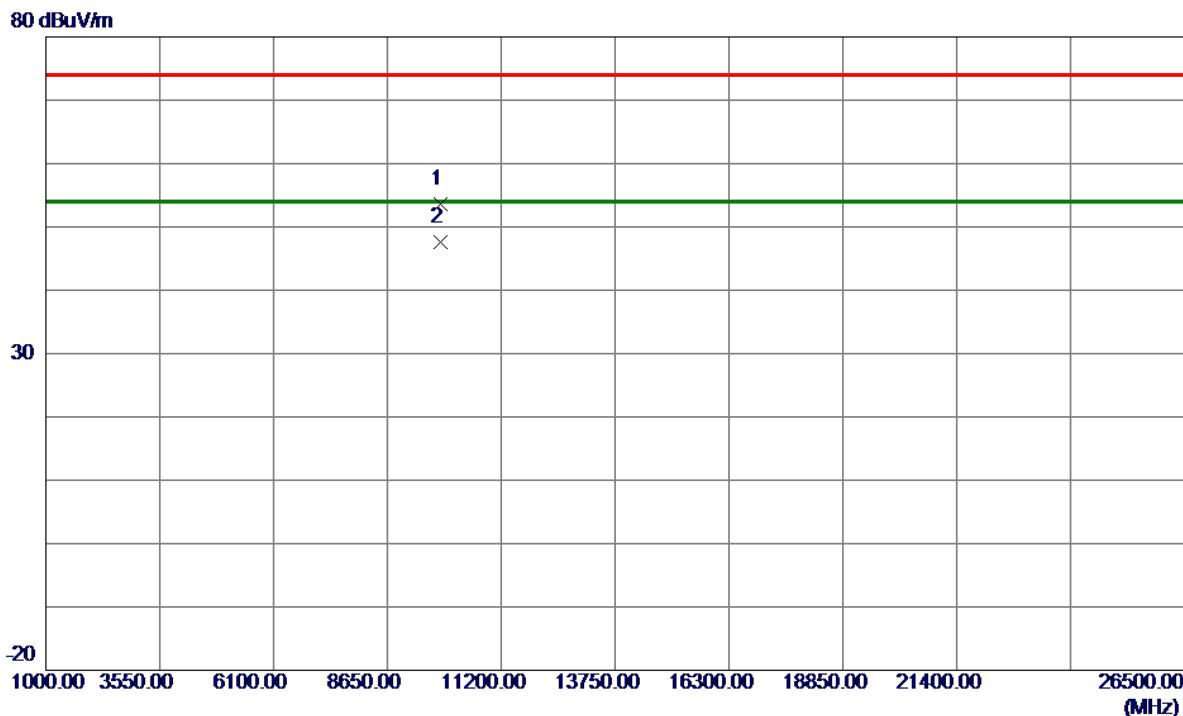
Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.3000	99.42	8.98	108.40	54.00	54.40	AVG	No Limit
2	2462.0000	103.15	8.98	112.13	74.00	38.13	Peak	No Limit
3	2483.5000	49.59	8.97	58.56	74.00	-15.44	Peak	
4	2483.5000	41.11	8.97	50.08	54.00	-3.92	AVG	
5	2487.6000	51.75	8.96	60.71	74.00	-13.29	Peak	
6	2487.6000	44.32	8.96	53.28	54.00	-0.72	AVG	

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

Vertical

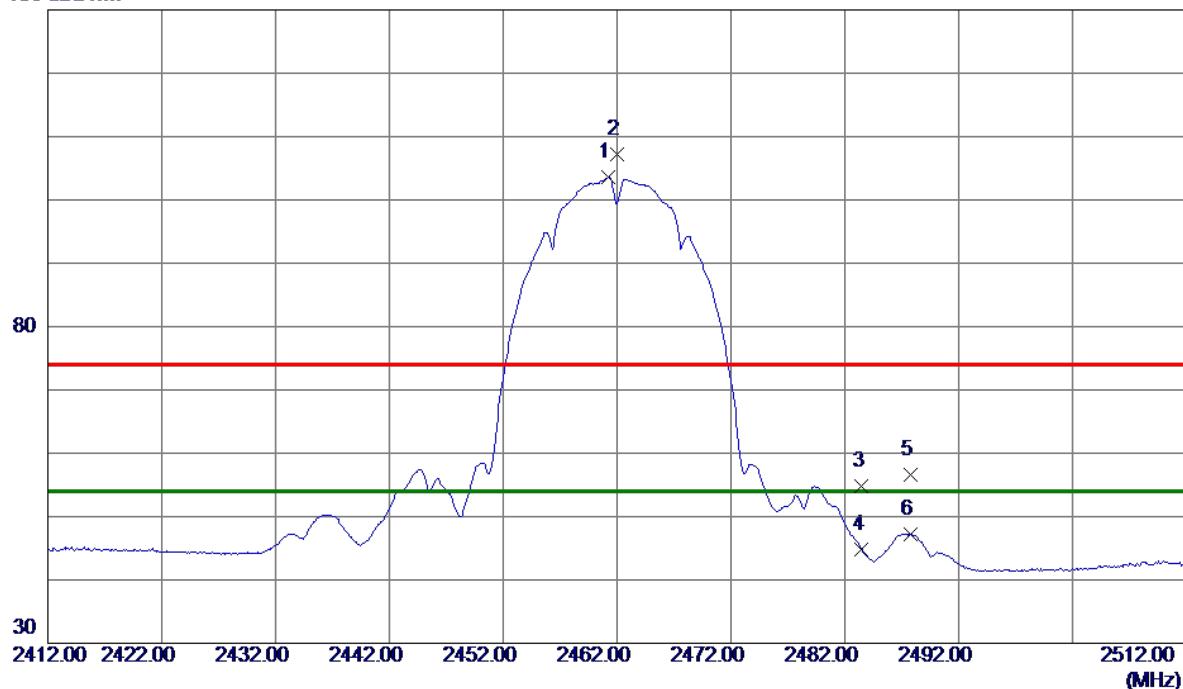
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9847.8880	39.47	14.11	53.58	74.00	-20.42	Peak	
2 *	9847.9180	33.53	14.11	47.64	54.00	-6.36	AVG	

Orthogonal Axis : X

Test Mode : TX B MODE 2462MHz

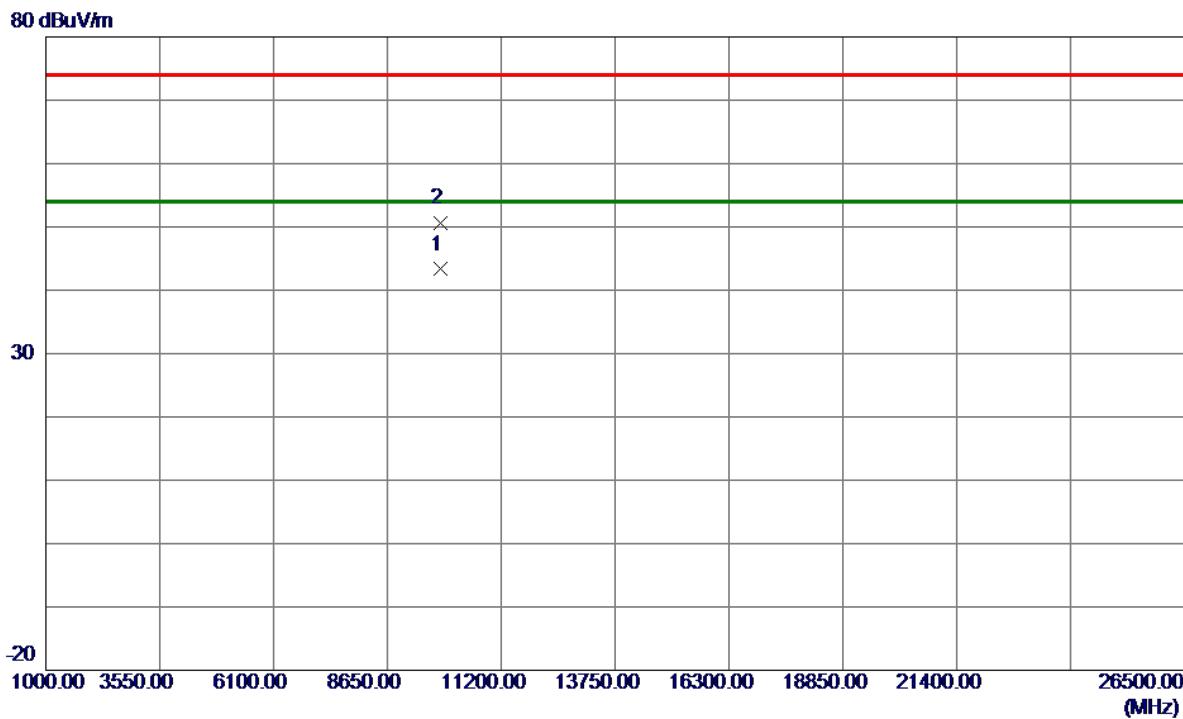
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.2000	94.55	8.98	103.53	54.00	49.53	AVG	No Limit
2	2462.0000	98.31	8.98	107.29	74.00	33.29	Peak	No Limit
3	2483.5000	45.83	8.97	54.80	74.00	-19.20	Peak	
4	2483.5000	35.92	8.97	44.89	54.00	-9.11	AVG	
5	2487.8000	47.62	8.96	56.58	74.00	-17.42	Peak	
6	2487.8000	38.32	8.96	47.28	54.00	-6.72	AVG	

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

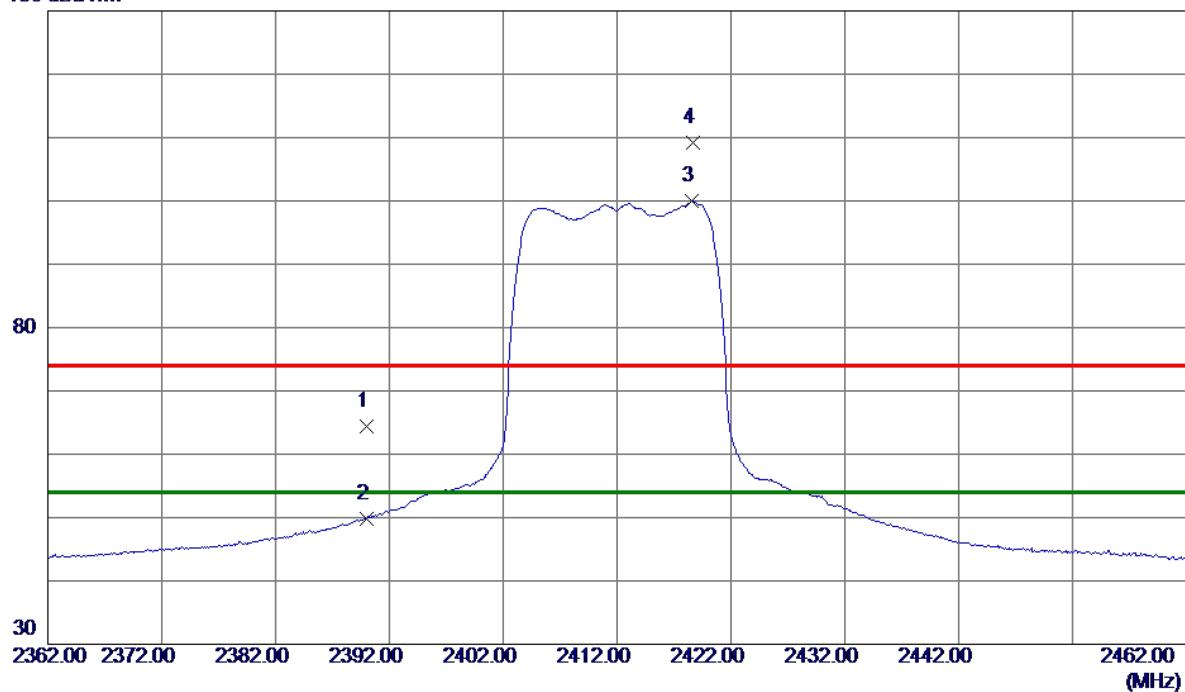
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.8420	29.19	14.11	43.30	54.00	-10.70	AVG	
2	9848.2160	36.58	14.11	50.69	74.00	-23.31	Peak	

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

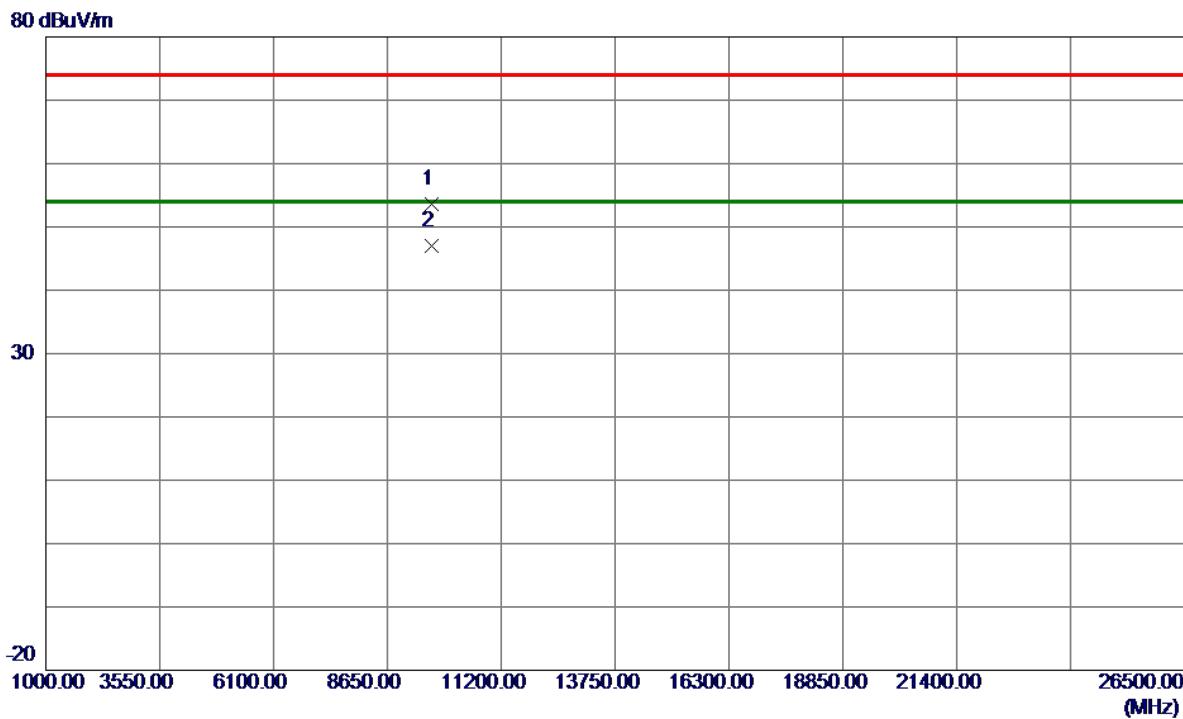
Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.37	9.00	64.37	74.00	-9.63	Peak	
2	2390.0000	40.82	9.00	49.82	54.00	-4.18	AVG	
3 *	2418.6000	90.92	8.99	99.91	54.00	45.91	AVG	No Limit
4	2418.7000	100.14	8.99	109.13	74.00	35.13	Peak	No Limit

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

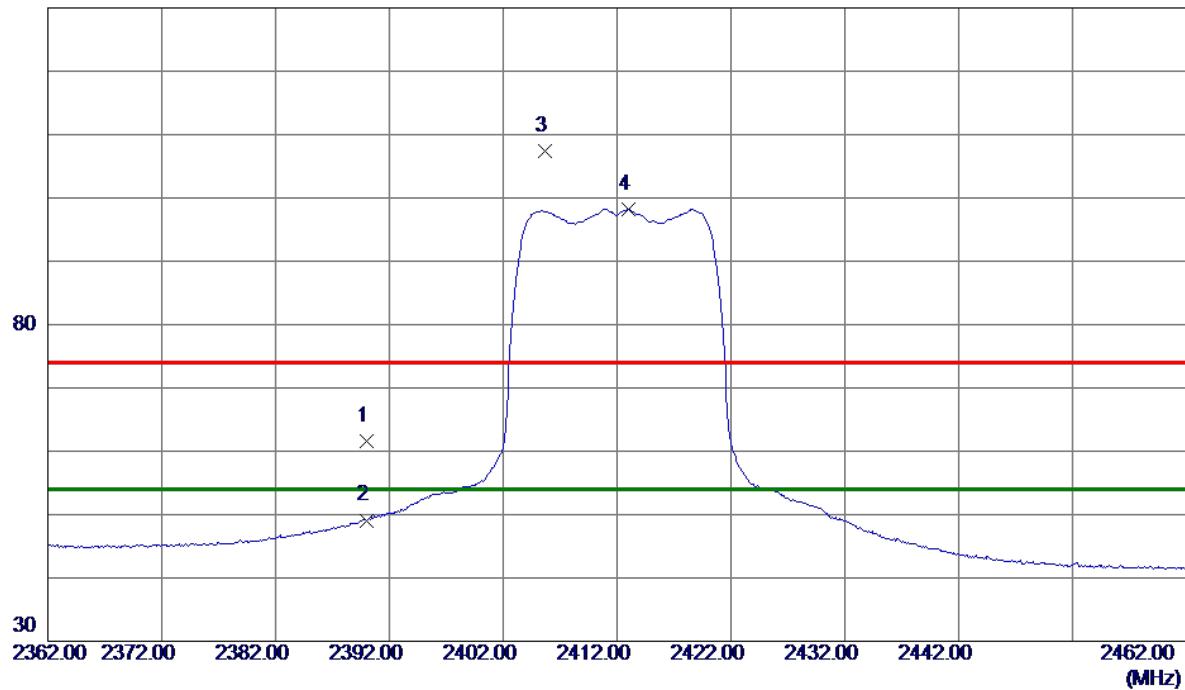
Vertical

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9647.7740	39.68	13.97	53.65	74.00	-20.35	Peak	
2 *	9647.9000	33.01	13.97	46.98	54.00	-7.02	AVG	

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

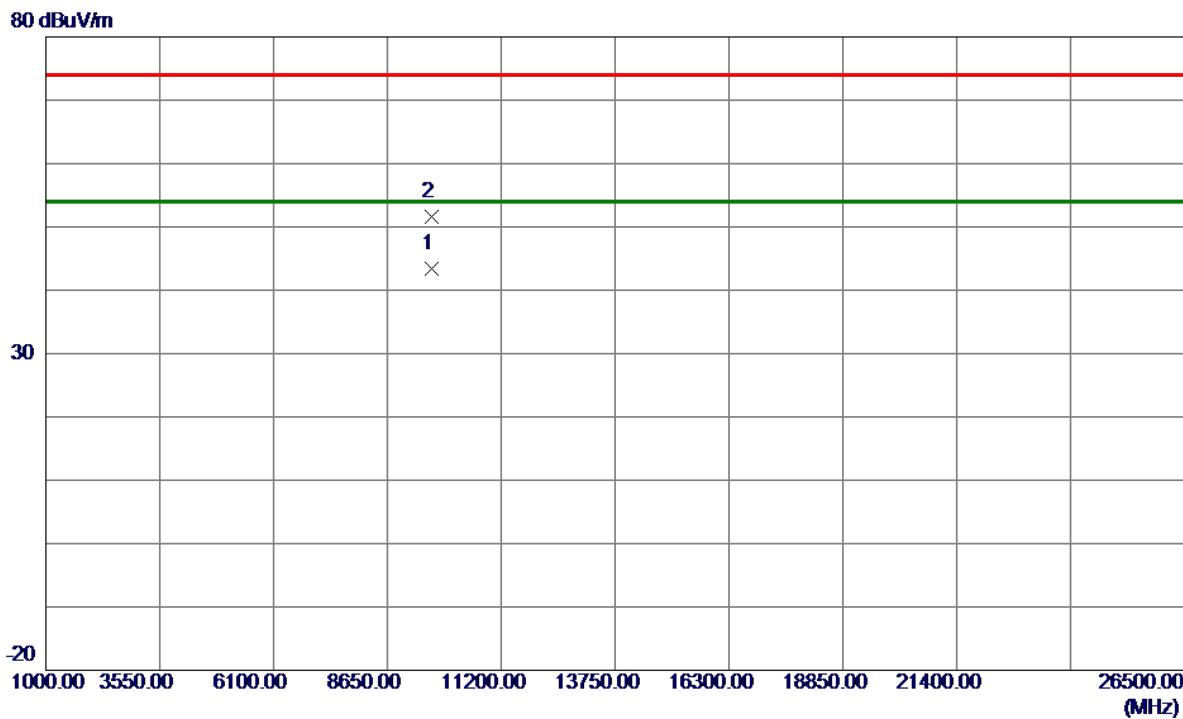
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	52.59	9.00	61.59	74.00	-12.41	Peak	
2	2390.0000	40.10	9.00	49.10	54.00	-4.90	AVG	
3	2405.7000	98.41	9.00	107.41	74.00	33.41	Peak	No Limit
4 *	2413.0000	89.23	8.99	98.22	54.00	44.22	AVG	No Limit

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

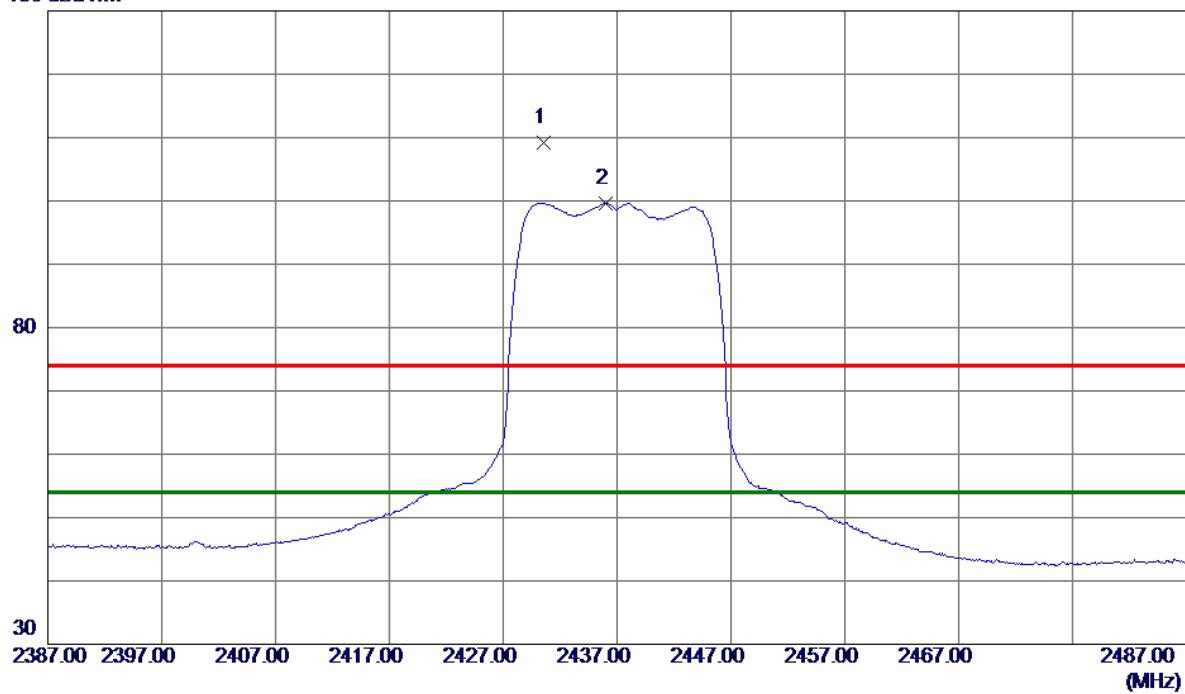
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9647.8480	29.46	13.97	43.43	54.00	-10.57	AVG	
2	9647.9900	37.65	13.97	51.62	74.00	-22.38	Peak	

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

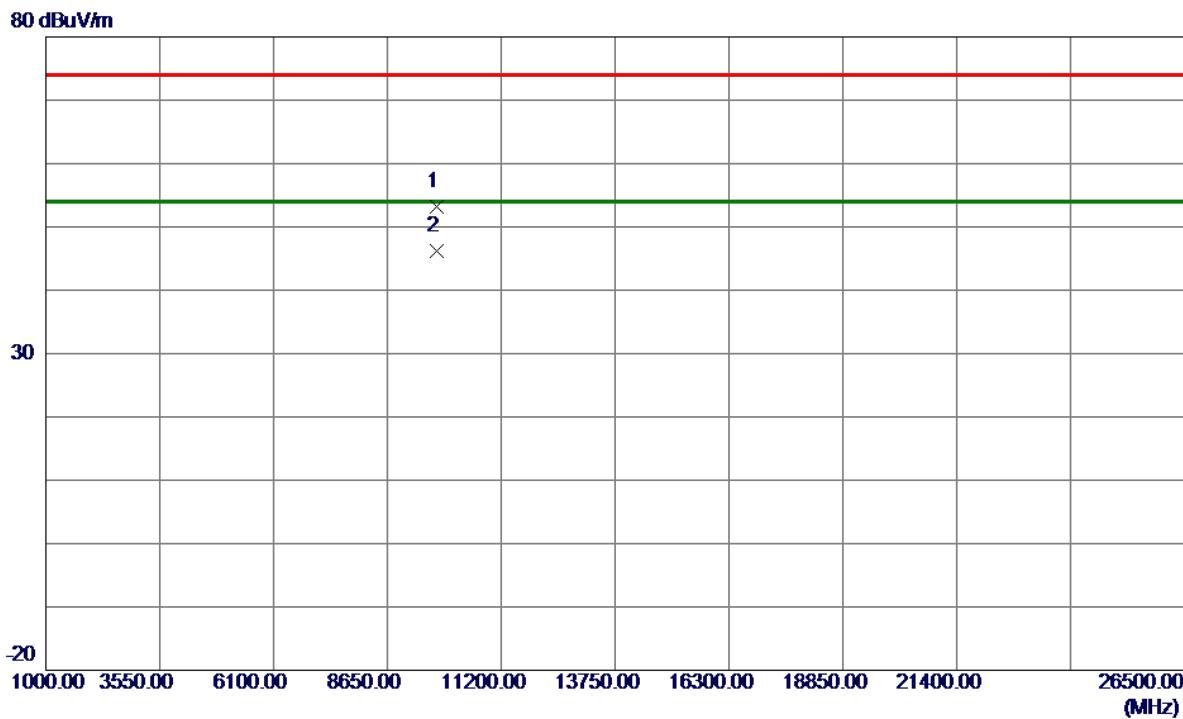
Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2430.6000	100.20	8.99	109.19	74.00	35.19	Peak	No Limit
2 *	2436.0000	90.69	8.99	99.68	54.00	45.68	AVG	No Limit

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

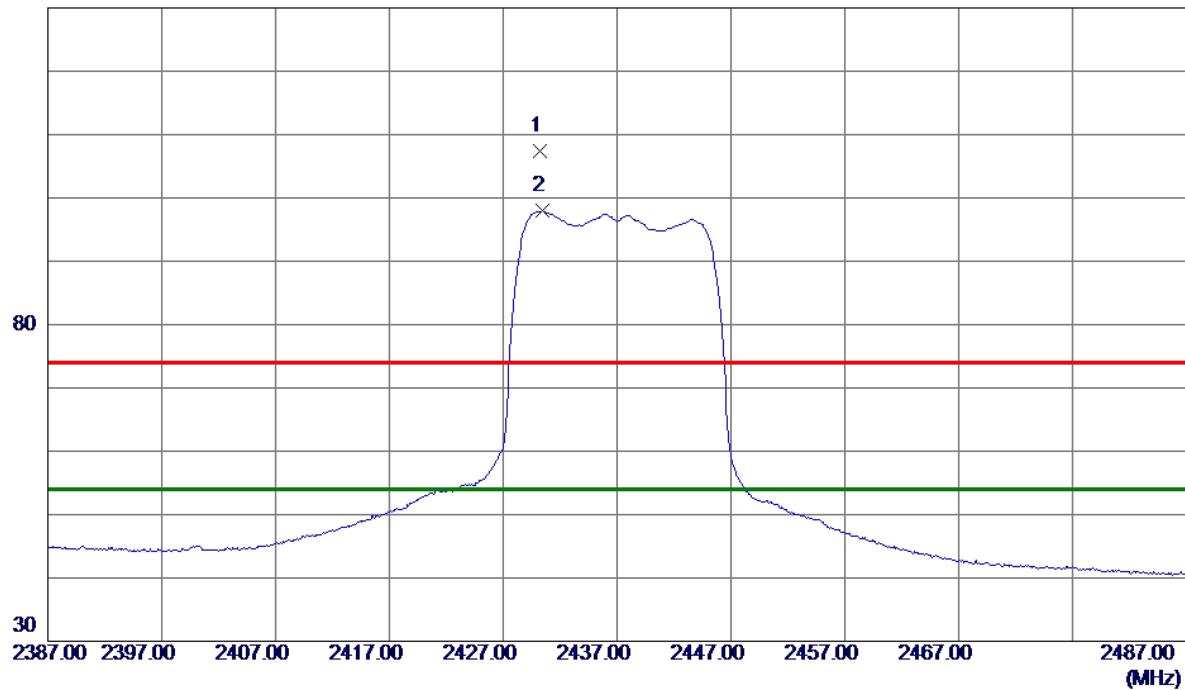
Vertical

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.8339	39.15	14.04	53.19	74.00	-20.81	Peak	
2 *	9747.8920	32.21	14.04	46.25	54.00	-7.75	AVG	

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

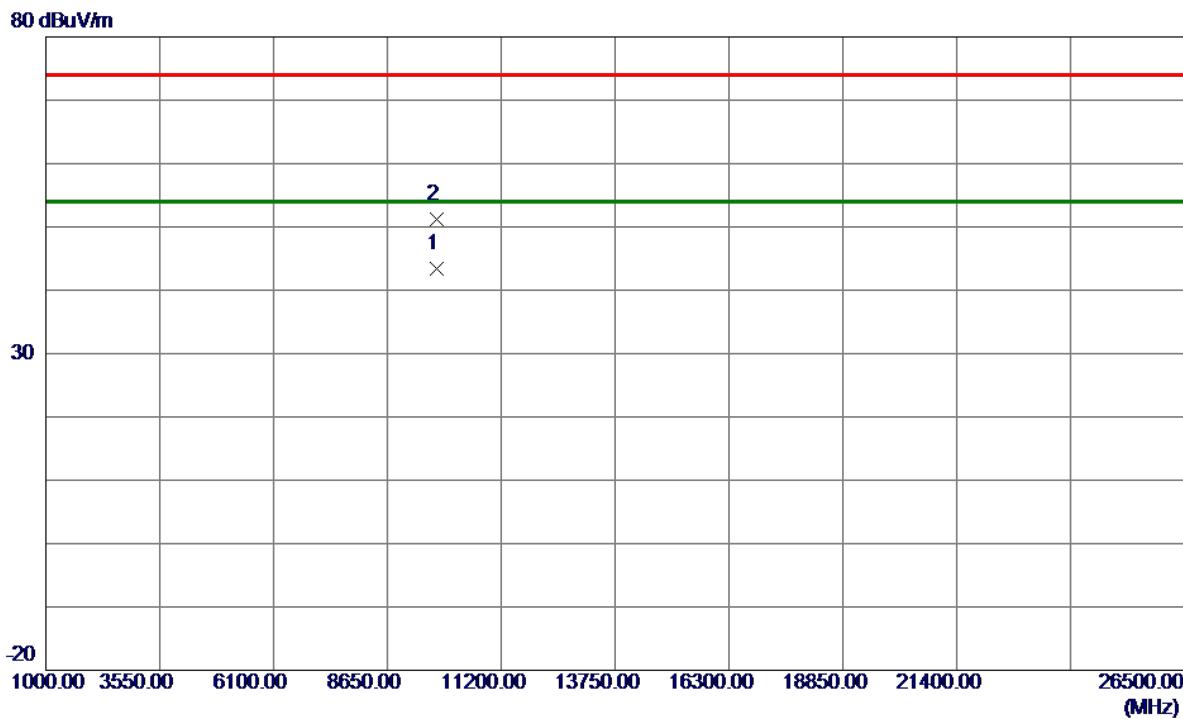
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2430.2000	98.44	8.99	107.43	74.00	33.43	Peak	No Limit
2 *	2430.4000	88.93	8.99	97.92	54.00	43.92	AVG	No Limit

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

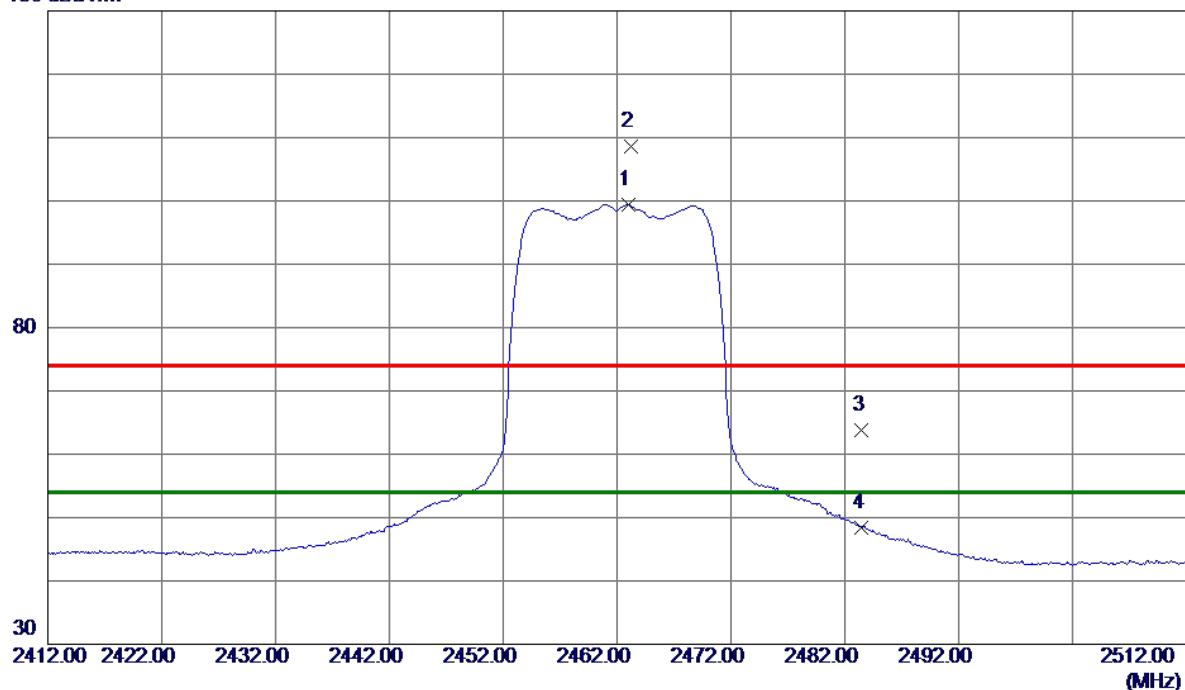
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.8900	29.29	14.04	43.33	54.00	-10.67	AVG	
2	9747.9820	37.12	14.04	51.16	74.00	-22.84	Peak	

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

Vertical

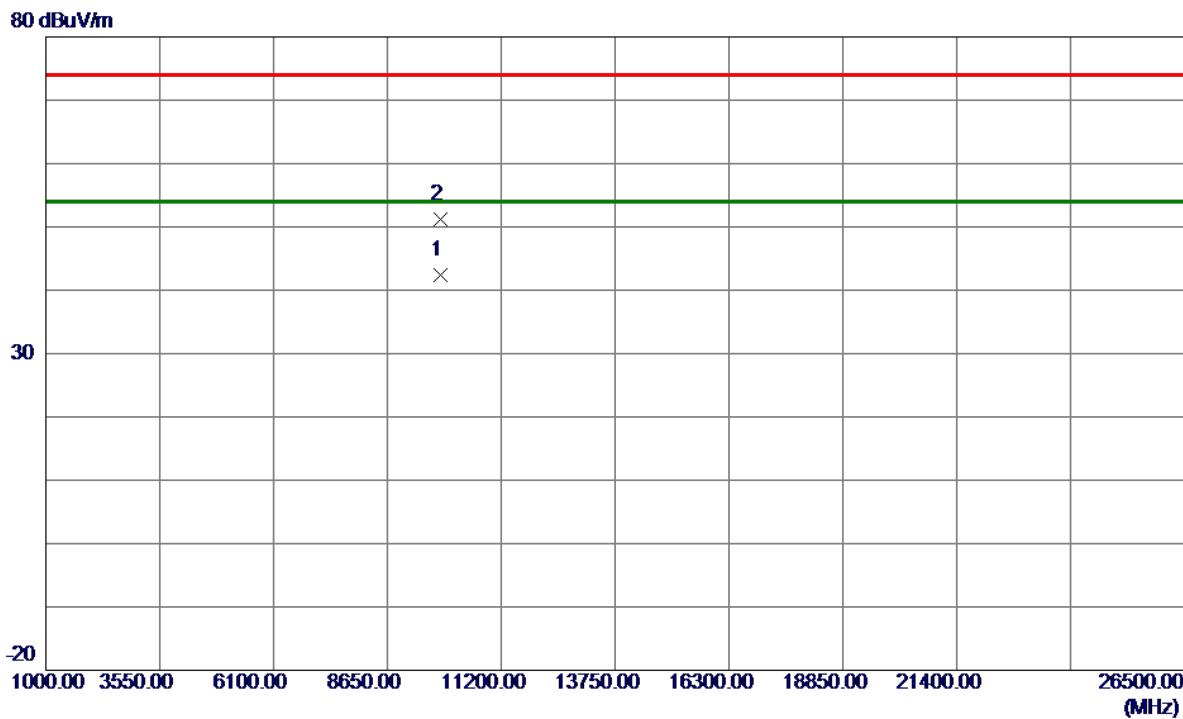
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2463.0000	90.48	8.97	99.45	54.00	45.45	AVG	No Limit
2	2463.2000	99.71	8.97	108.68	74.00	34.68	Peak	No Limit
3	2483.5000	54.81	8.97	63.78	74.00	-10.22	Peak	
4	2483.5000	39.37	8.97	48.34	54.00	-5.66	AVG	

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

Vertical



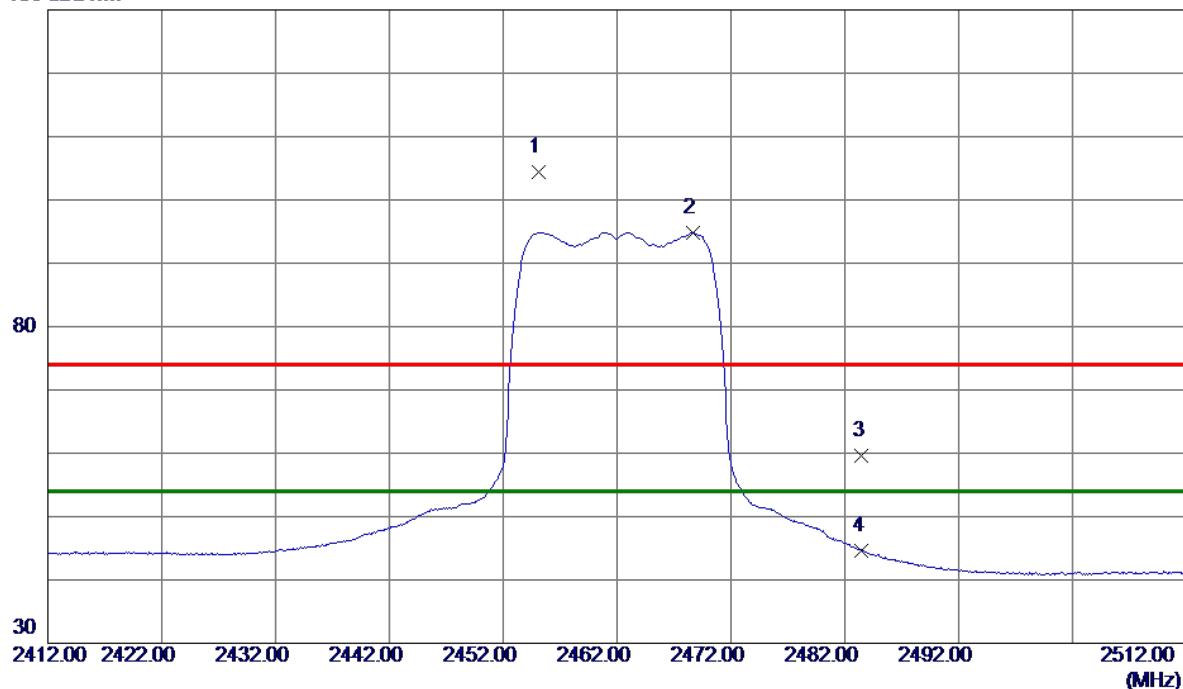
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.8380	28.33	14.11	42.44	54.00	-11.56	AVG	
2	9847.8760	37.04	14.11	51.15	74.00	-22.85	Peak	

Orthogonal Axis : X

Test Mode : TX G MODE 2462MHz

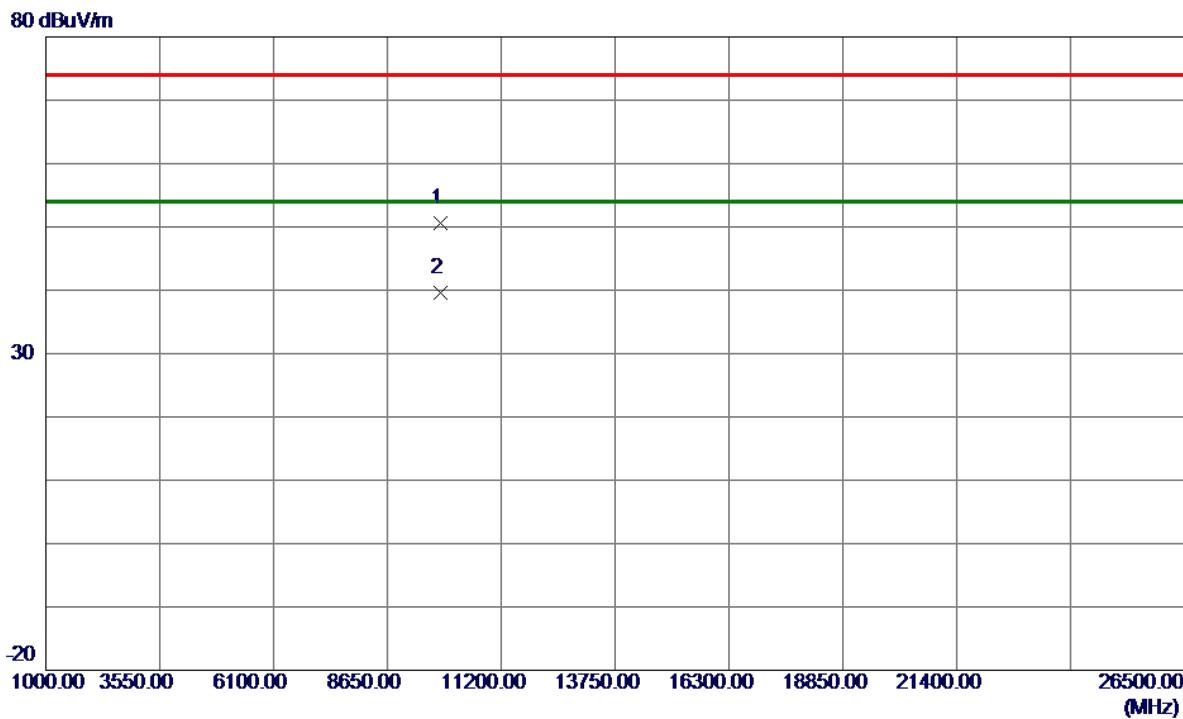
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2455.1000	95.39	8.98	104.37	74.00	30.37	Peak	No Limit
2 *	2468.7000	85.87	8.97	94.84	54.00	40.84	AVG	No Limit
3	2483.5000	50.54	8.97	59.51	74.00	-14.49	Peak	
4	2483.5000	35.61	8.97	44.58	54.00	-9.42	AVG	

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

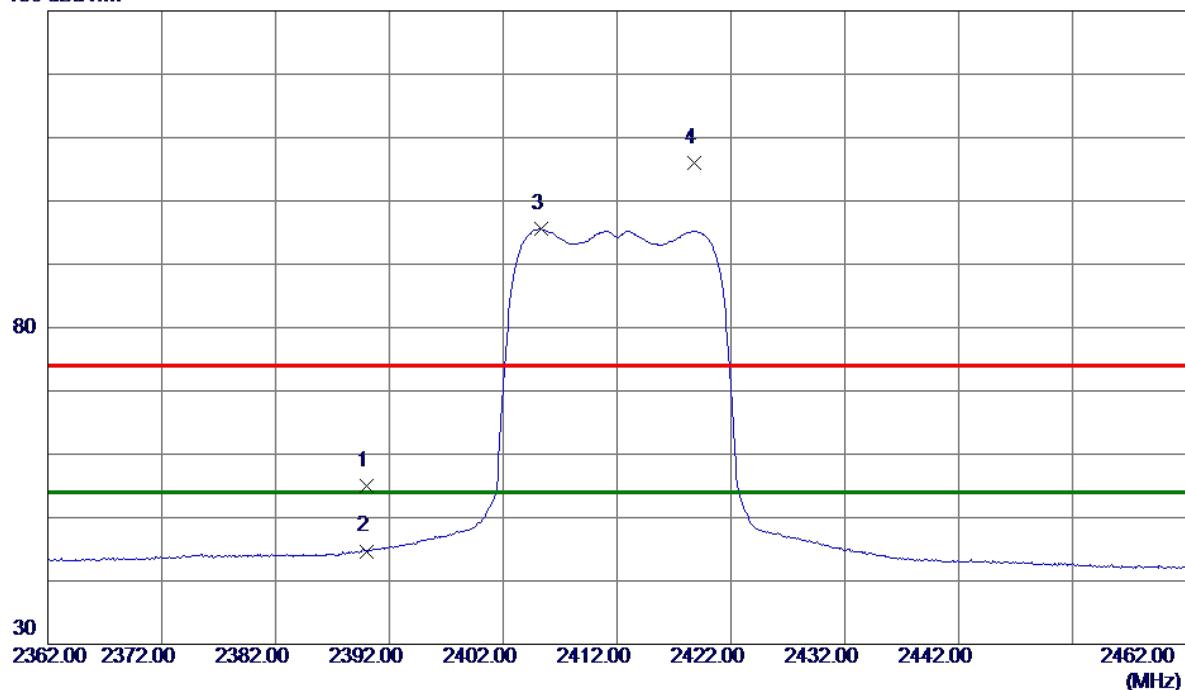
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9847.8099	36.55	14.11	50.66	74.00	-23.34	Peak	
2 *	9847.8780	25.44	14.11	39.55	54.00	-14.45	AVG	

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

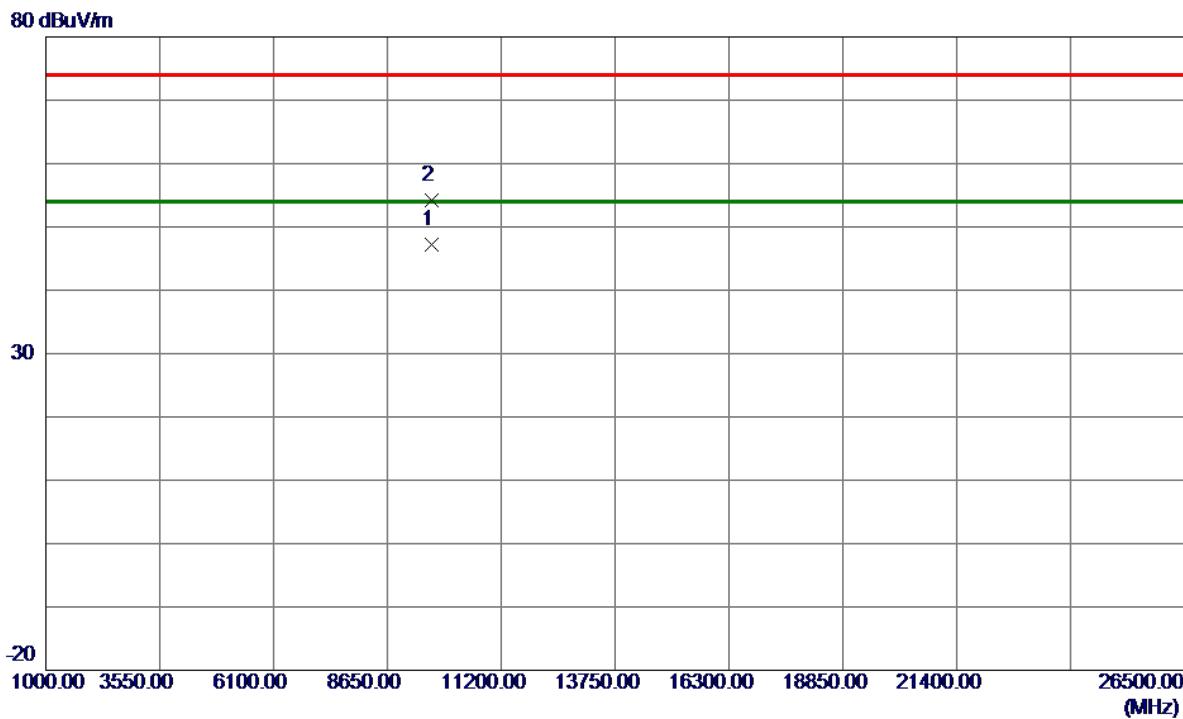
Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.91	9.00	54.91	74.00	-19.09	Peak	
2	2390.0000	35.70	9.00	44.70	54.00	-9.30	AVG	
3 *	2405.3000	86.55	9.00	95.55	54.00	41.55	AVG	No Limit
4	2418.8000	97.03	8.99	106.02	74.00	32.02	Peak	No Limit

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

Vertical

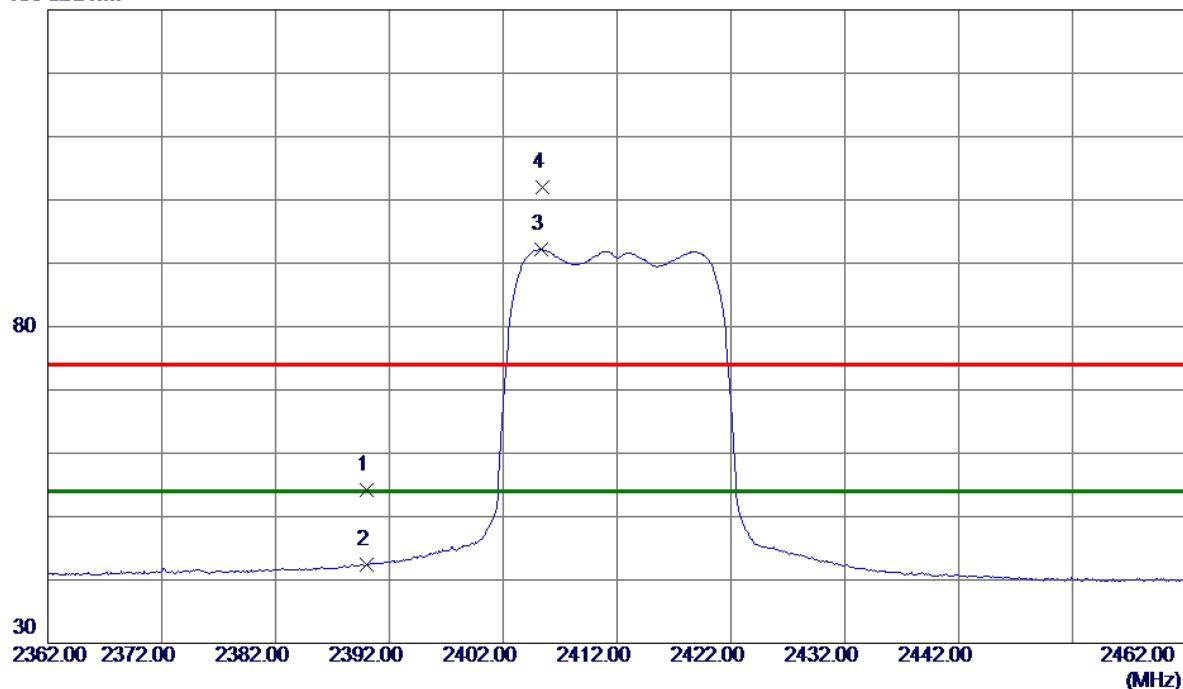
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9647.8580	33.31	13.97	47.28	54.00	-6.72	AVG	
2	9647.9400	40.31	13.97	54.28	74.00	-19.72	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

Horizontal

130 dBuV/m



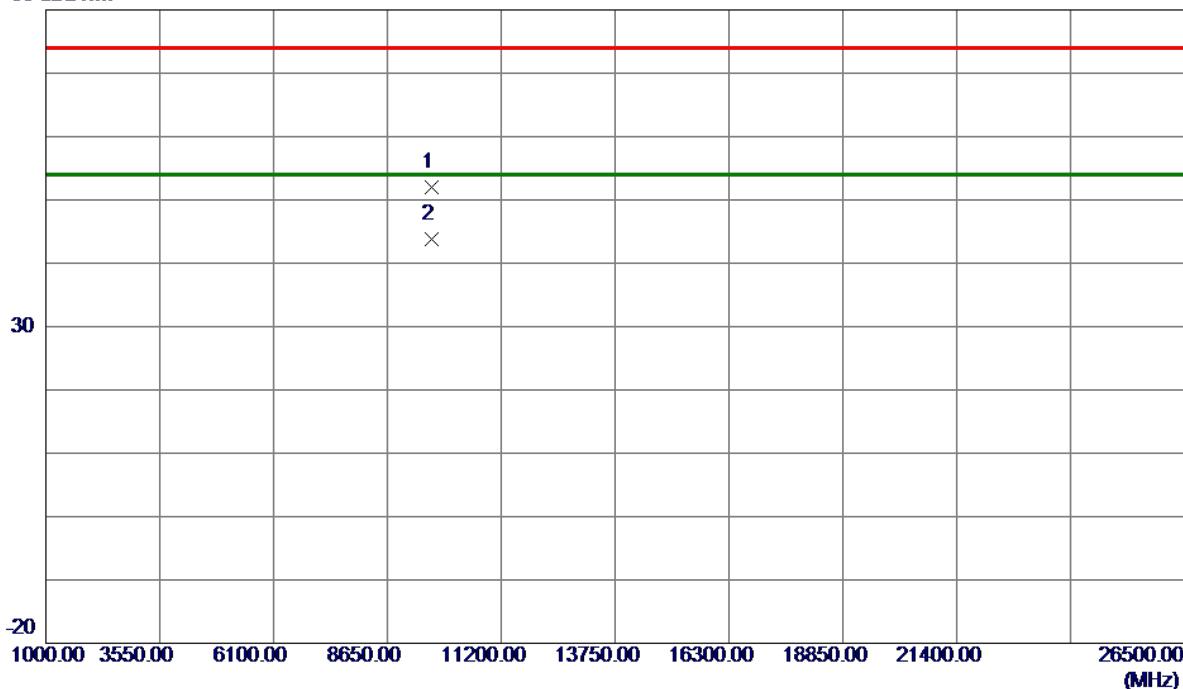
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.15	9.00	54.15	74.00	-19.85	Peak	
2	2390.0000	33.37	9.00	42.37	54.00	-11.63	AVG	
3 *	2405.3000	83.18	9.00	92.18	54.00	38.18	AVG	No Limit
4	2405.4000	92.98	9.00	101.98	74.00	27.98	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2412MHz

Horizontal

80 dBuV/m

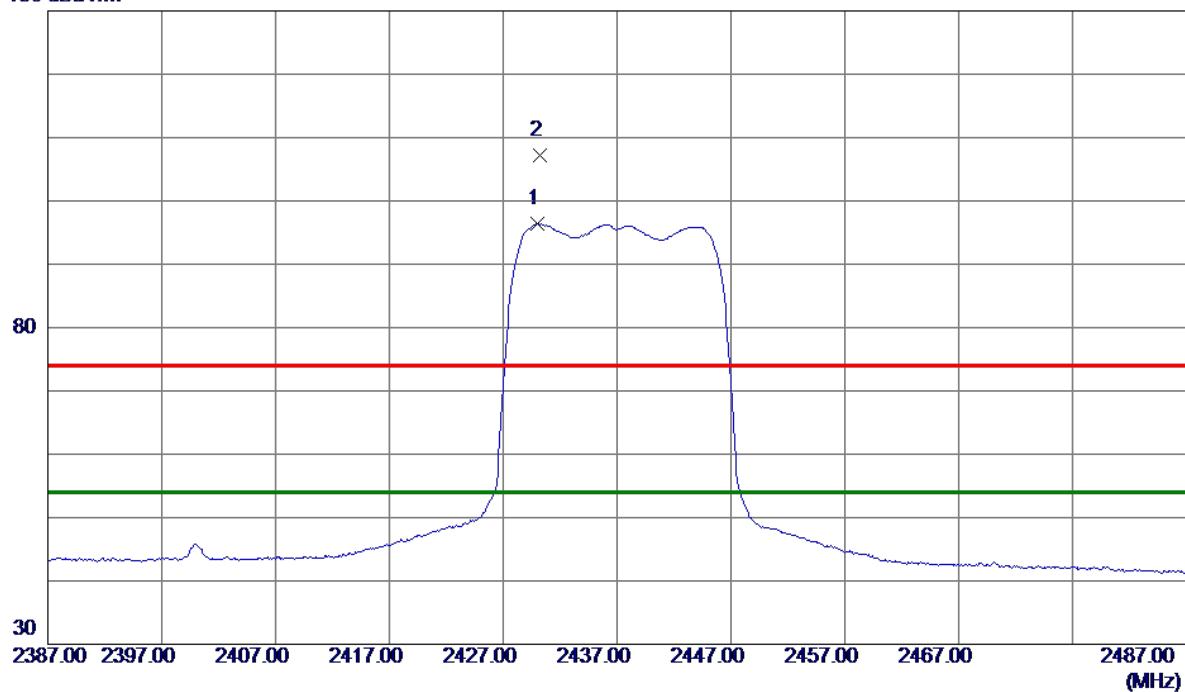


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9647.7600	38.02	13.97	51.99	74.00	-22.01	Peak	
2 *	9647.8840	29.92	13.97	43.89	54.00	-10.11	AVG	

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

Vertical

130 dBuV/m



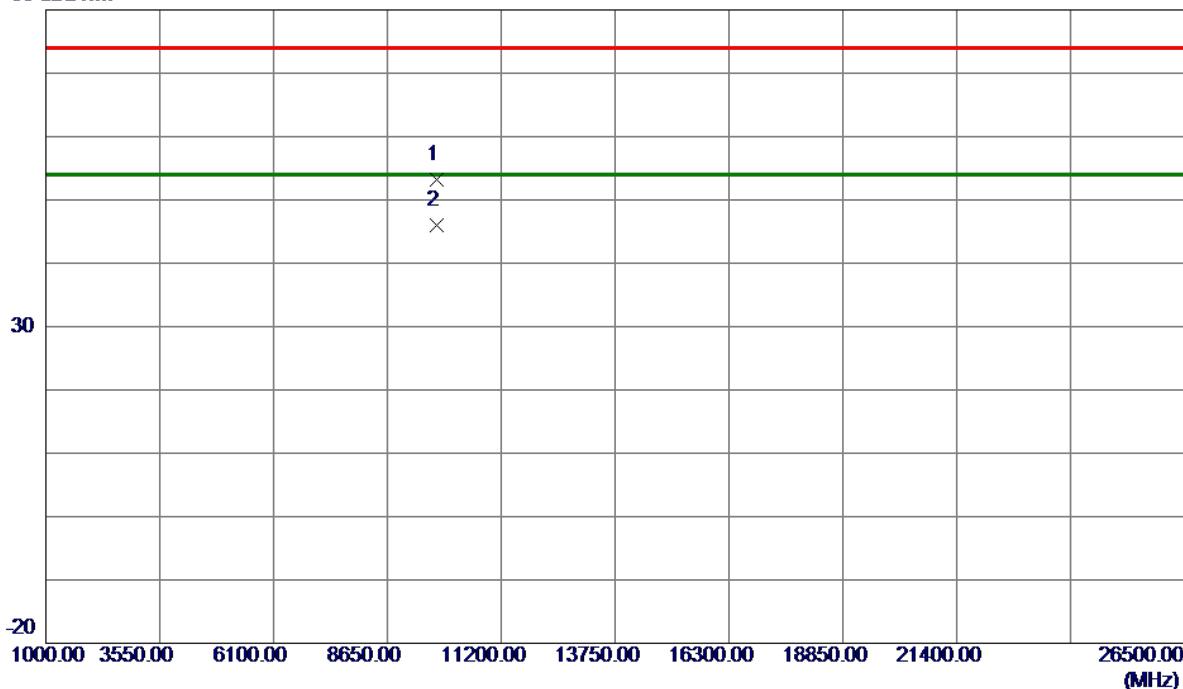
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2430.0000	87.42	8.99	96.41	54.00	42.41	AVG	No Limit
2	2430.2000	98.21	8.99	107.20	74.00	33.20	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

Vertical

80 dBuV/m



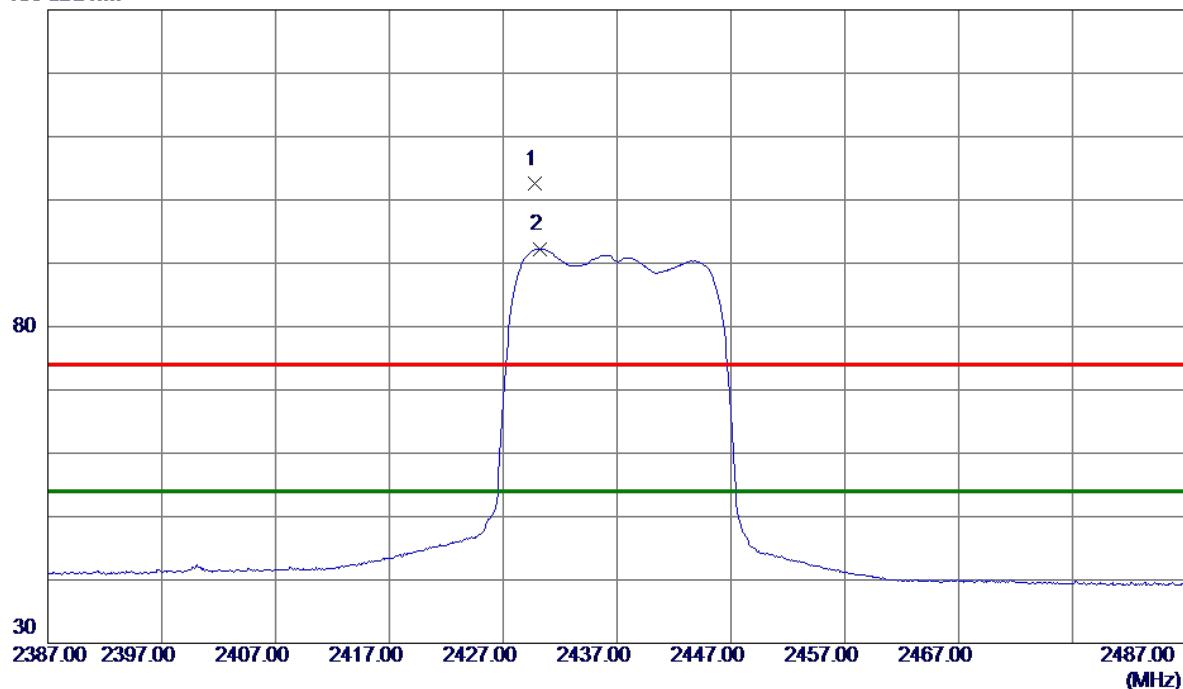
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9747.7539	39.08	14.04	53.12	74.00	-20.88	Peak	
2 *	9747.9240	32.04	14.04	46.08	54.00	-7.92	AVG	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

Horizontal

130 dBuV/m



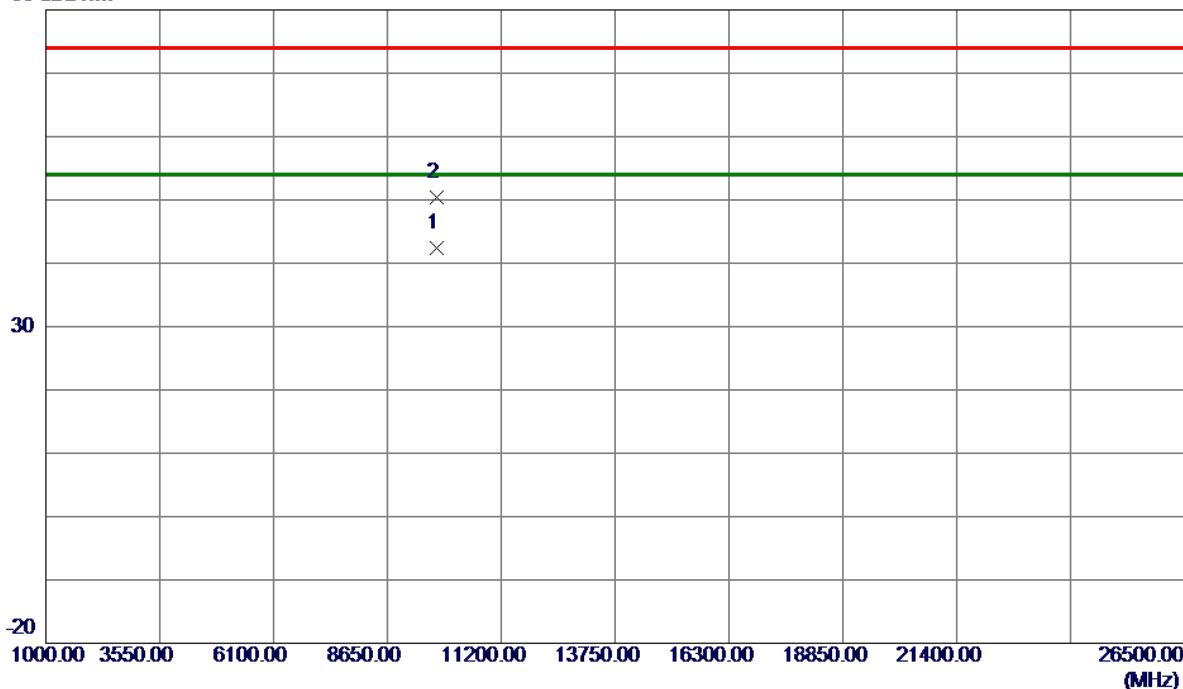
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2429.8000	93.51	8.99	102.50	74.00	28.50	Peak	No Limit
2 *	2430.2000	83.27	8.99	92.26	54.00	38.26	AVG	No Limit

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2437MHz

Horizontal

80 dBuV/m

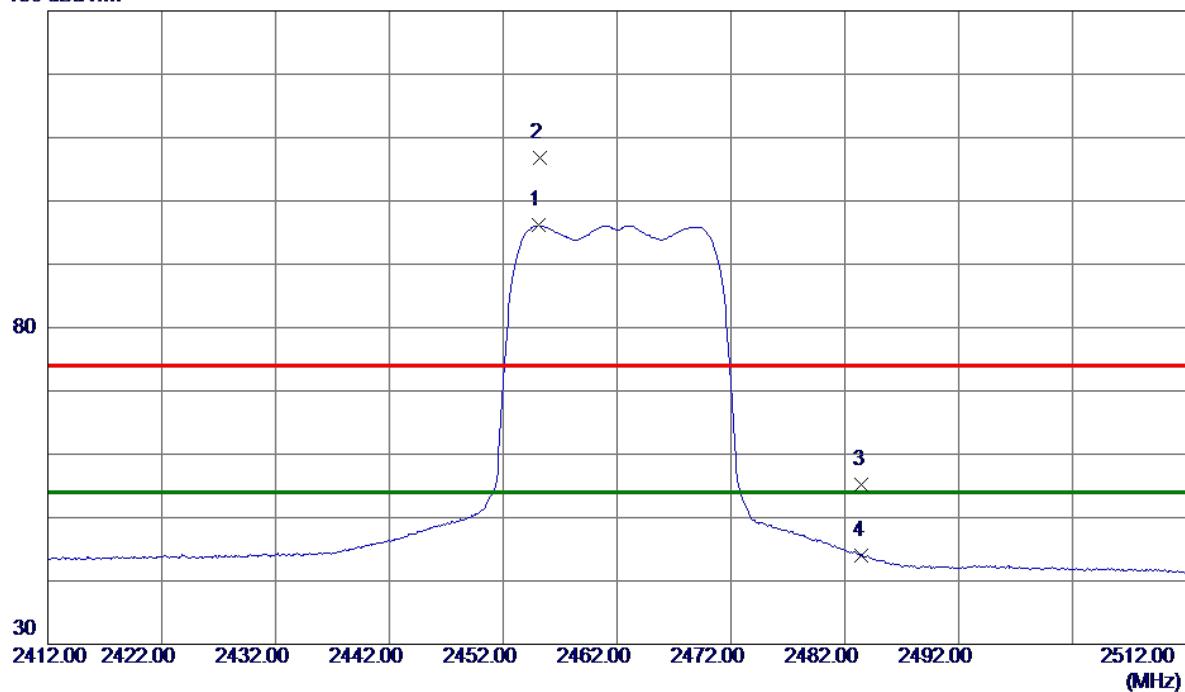


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.9520	28.39	14.04	42.43	54.00	-11.57	AVG	
2	9748.0380	36.31	14.04	50.35	74.00	-23.65	Peak	

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

Vertical

130 dBuV/m



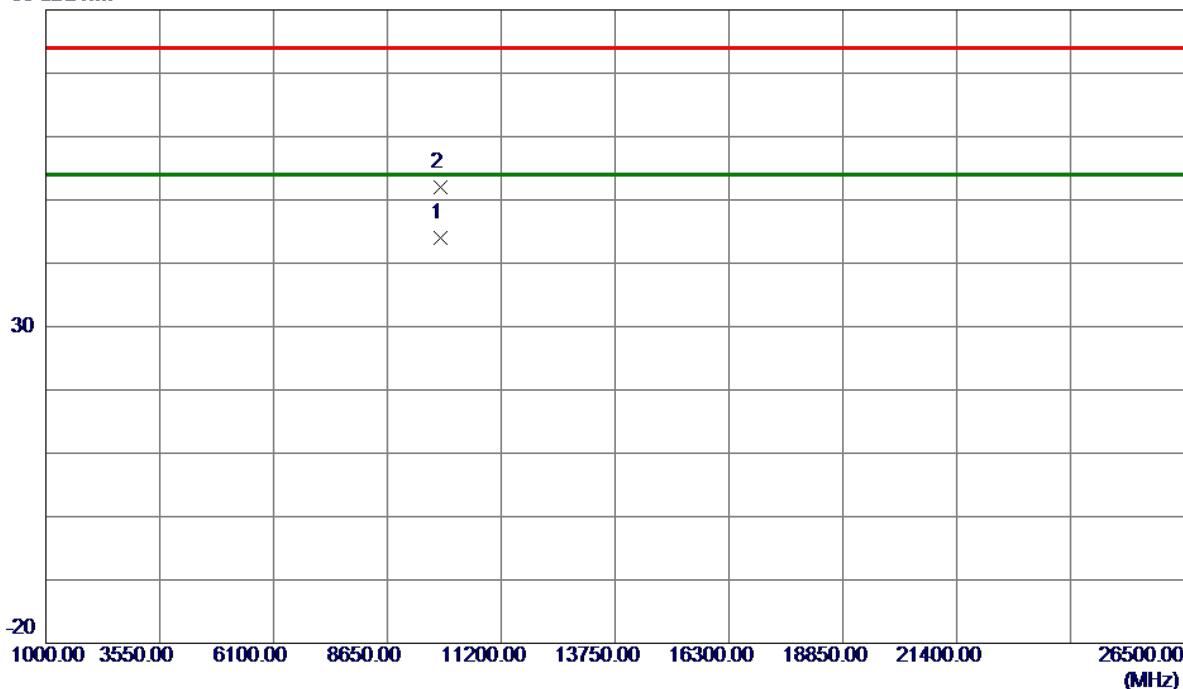
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.1000	87.18	8.98	96.16	54.00	42.16	AVG	No Limit
2	2455.2000	97.90	8.98	106.88	74.00	32.88	Peak	No Limit
3	2483.5000	46.23	8.97	55.20	74.00	-18.80	Peak	
4	2483.5000	35.05	8.97	44.02	54.00	-9.98	AVG	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

Vertical

80 dBuV/m



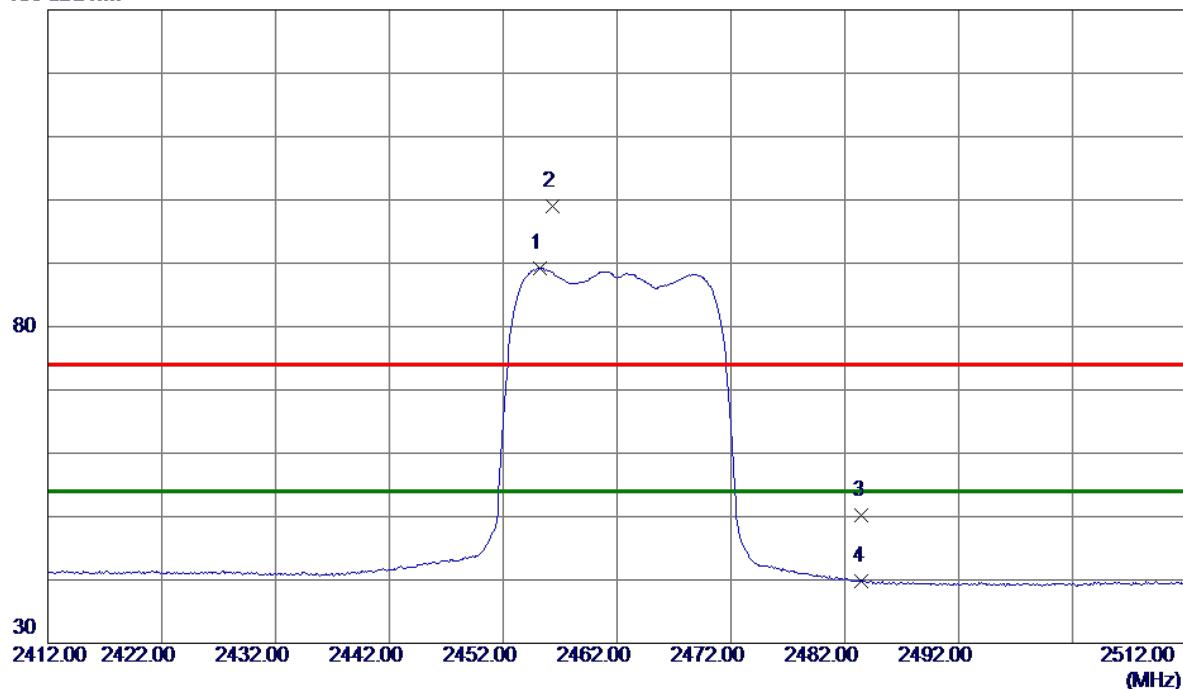
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.9200	29.83	14.11	43.94	54.00	-10.06	AVG	
2	9847.9620	37.97	14.11	52.08	74.00	-21.92	Peak	

Orthogonal Axis : X

Test Mode : TX N-20M MODE 2462MHz

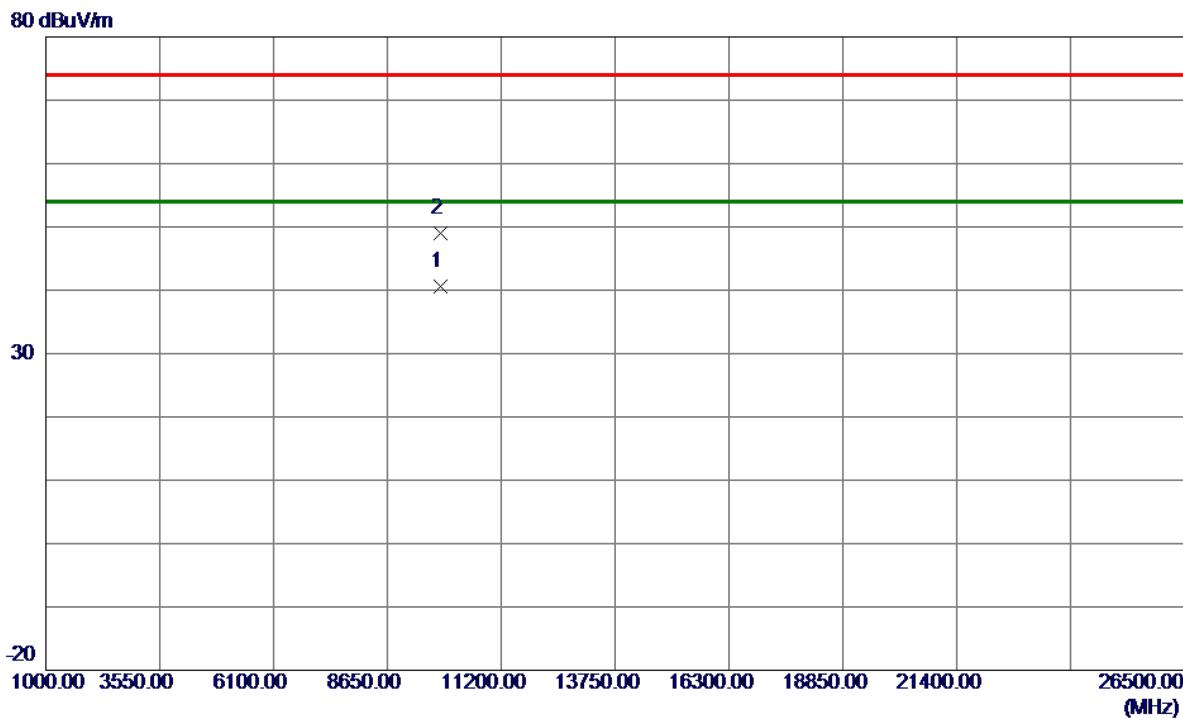
Horizontal

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2455.2000	80.23	8.98	89.21	54.00	35.21	AVG	No Limit
2	2456.3000	90.00	8.98	98.98	74.00	24.98	Peak	No Limit
3	2483.5000	41.32	8.97	50.29	74.00	-23.71	Peak	
4	2483.5000	30.89	8.97	39.86	54.00	-14.14	AVG	

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

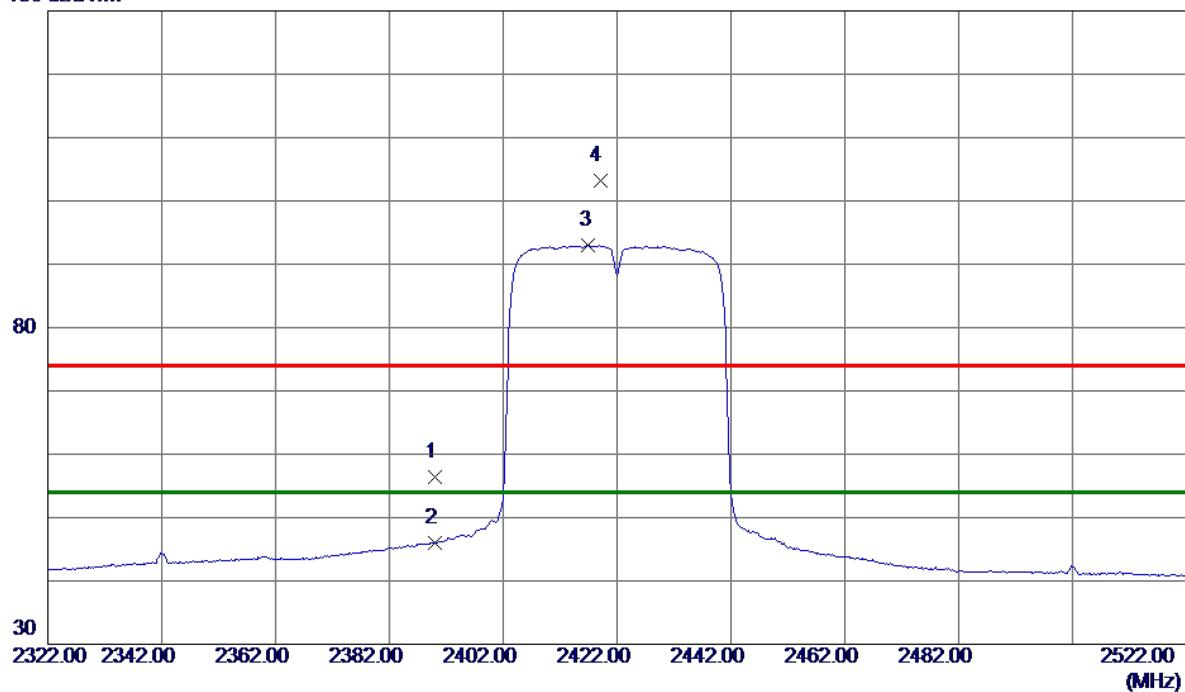
Horizontal

No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9847.9120	26.57	14.11	40.68	54.00	-13.32	AVG	
2	9848.1220	34.95	14.11	49.06	74.00	-24.94	Peak	

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

Vertical

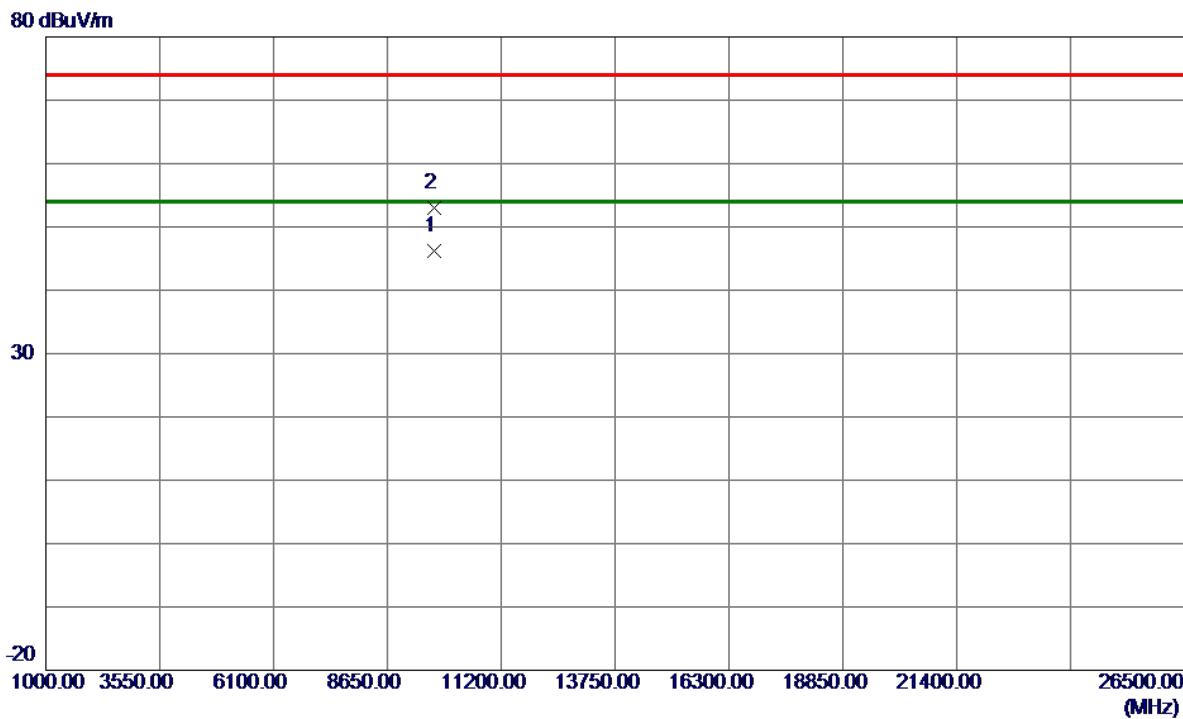
130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	47.40	9.00	56.40	74.00	-17.60	Peak	
2	2390.0000	36.94	9.00	45.94	54.00	-8.06	AVG	
3 *	2417.0000	84.02	8.99	93.01	54.00	39.01	AVG	No Limit
4	2419.0000	94.20	8.99	103.19	74.00	29.19	Peak	No Limit

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

Vertical



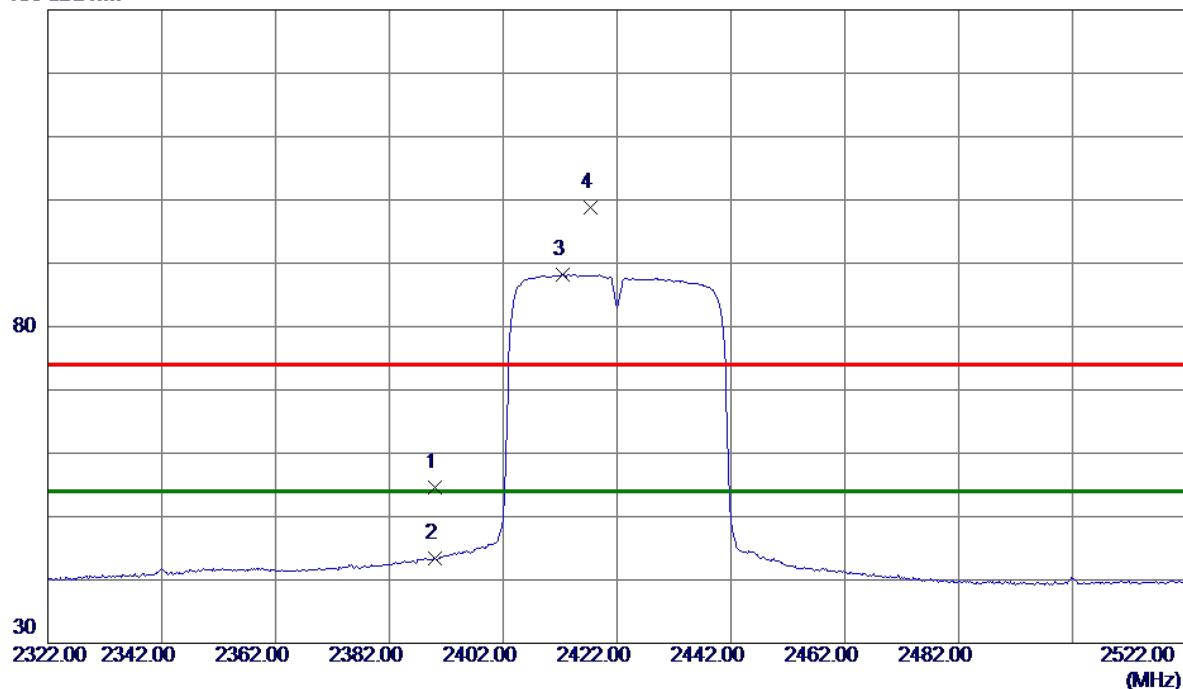
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9687.7980	32.14	14.00	46.14	54.00	-7.86	AVG	
2	9688.2020	39.03	14.00	53.03	74.00	-20.97	Peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

Horizontal

130 dBuV/m



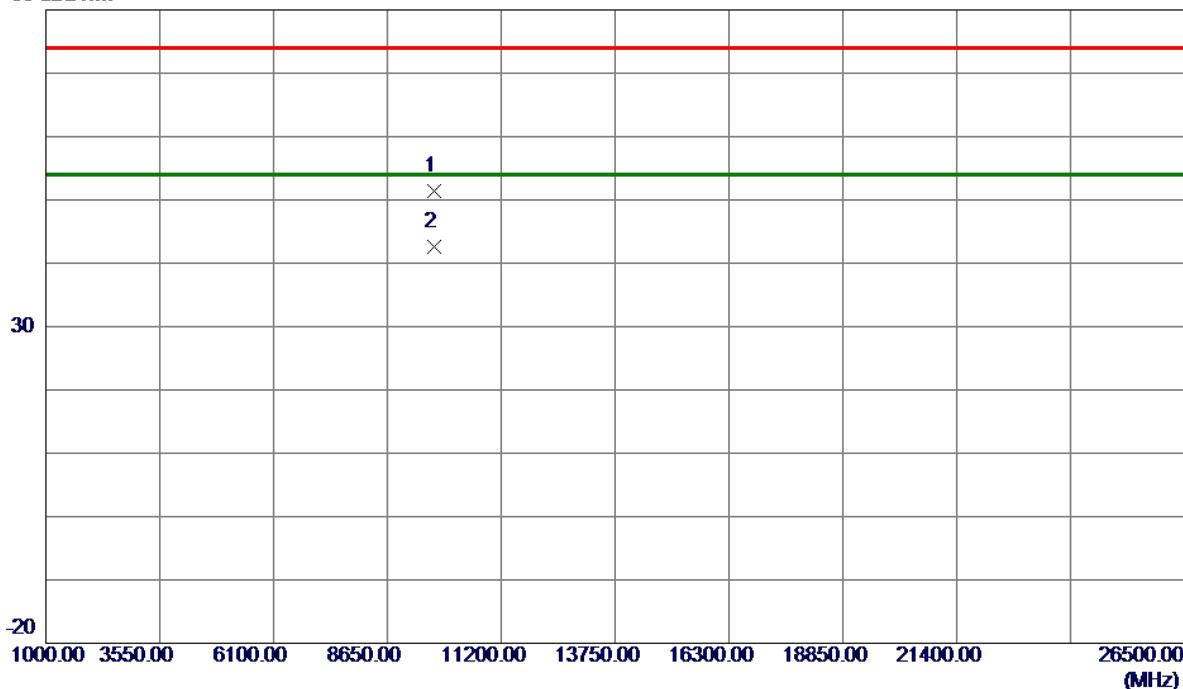
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.69	9.00	54.69	74.00	-19.31	Peak	
2	2390.0000	34.34	9.00	43.34	54.00	-10.66	AVG	
3 *	2412.4000	79.24	8.99	88.23	54.00	34.23	AVG	No Limit
4	2417.4000	89.85	8.99	98.84	74.00	24.84	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2422MHz

Horizontal

80 dBuV/m

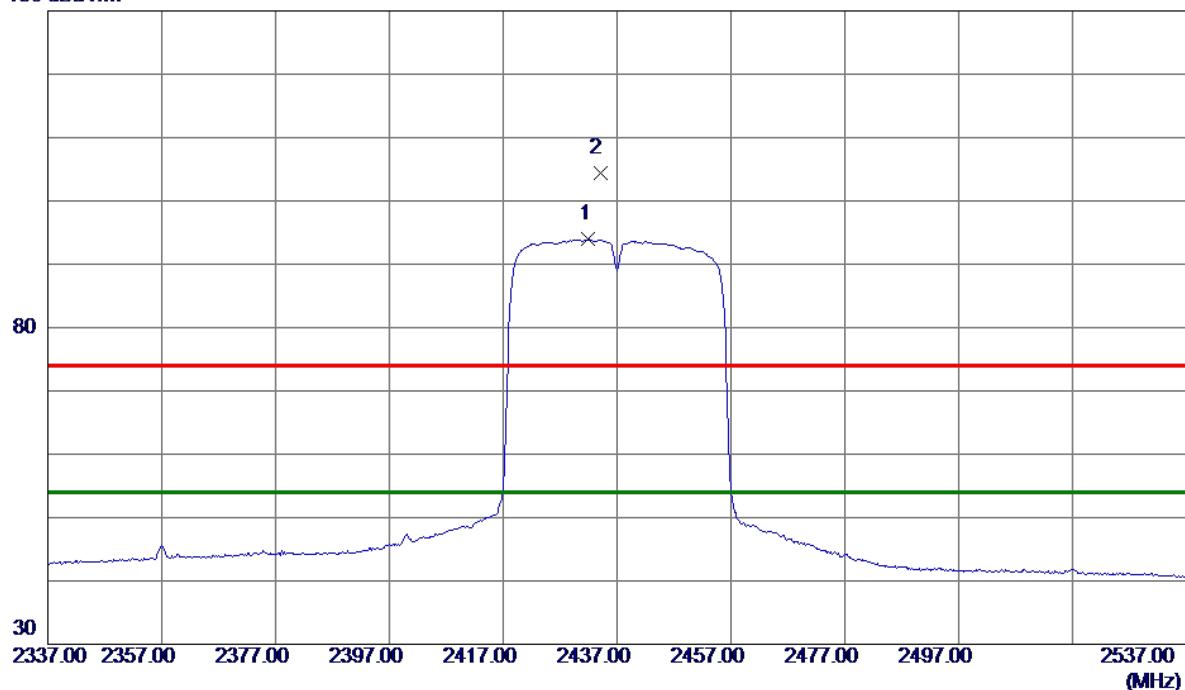


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9687.6700	37.47	14.00	51.47	74.00	-22.53	Peak	
2 *	9687.8420	28.66	14.00	42.66	54.00	-11.34	AVG	

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

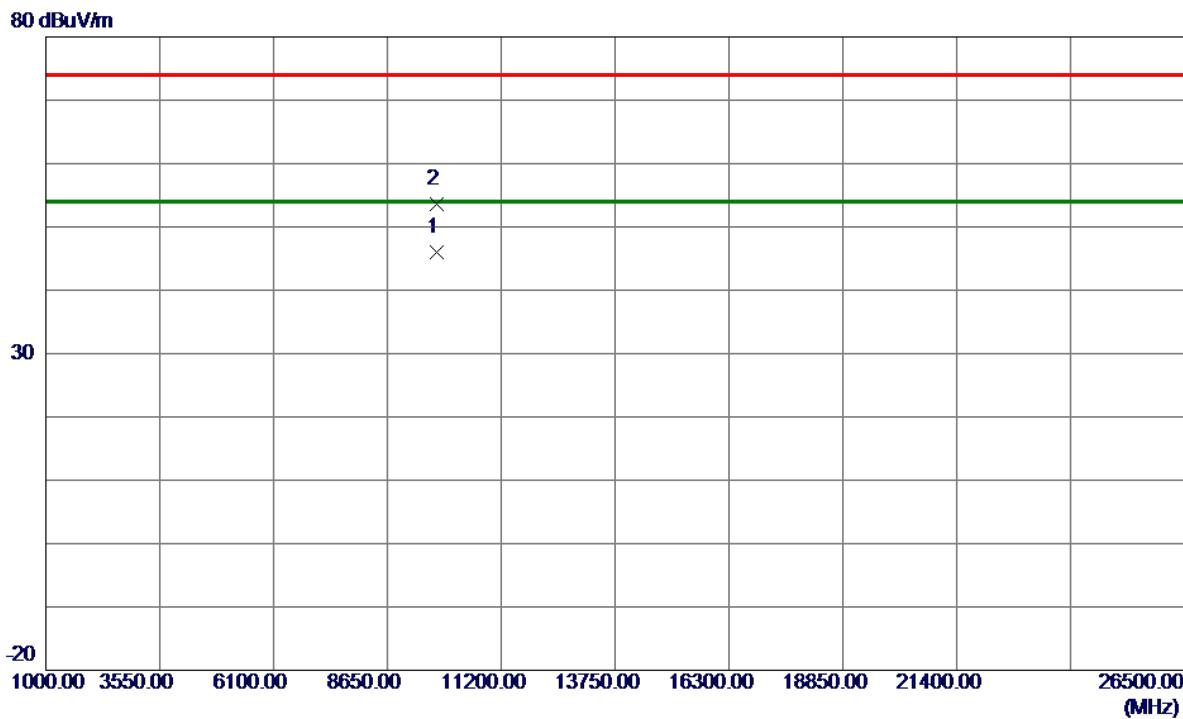
Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2432.0000	84.93	8.99	93.92	54.00	39.92	AVG	No Limit
2	2434.0000	95.42	8.99	104.41	74.00	30.41	Peak	No Limit

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

Vertical

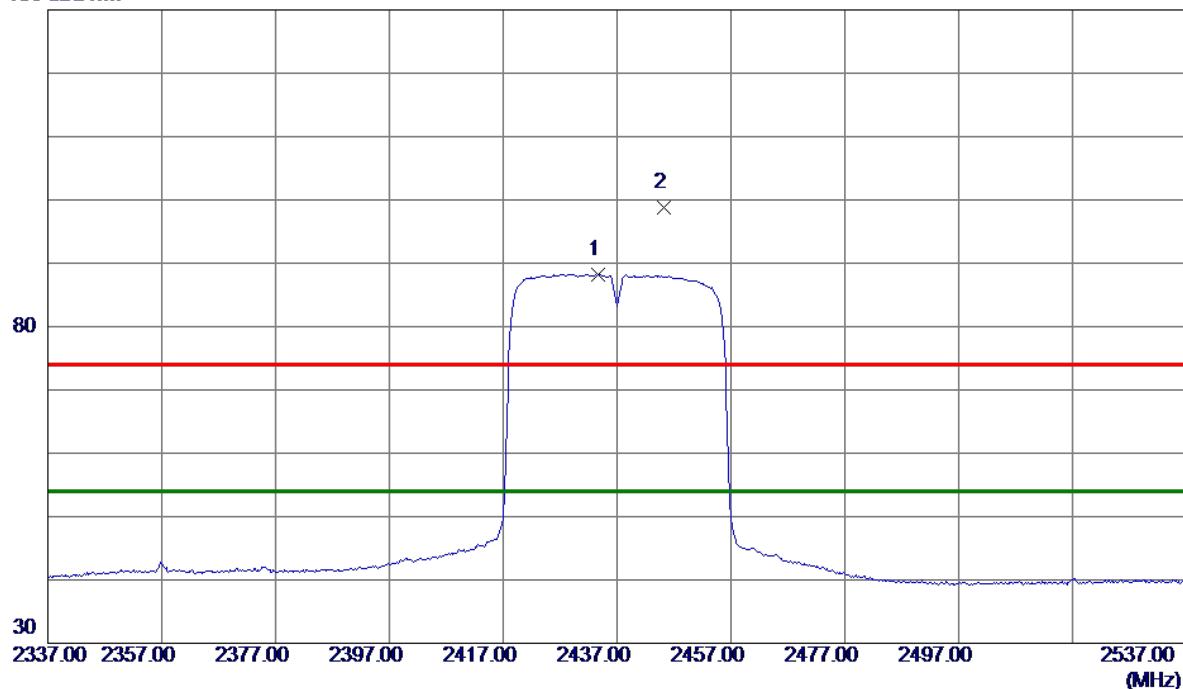
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.9240	32.02	14.04	46.06	54.00	-7.94	AVG	
2	9748.0140	39.47	14.04	53.51	74.00	-20.49	Peak	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

Horizontal

130 dBuV/m



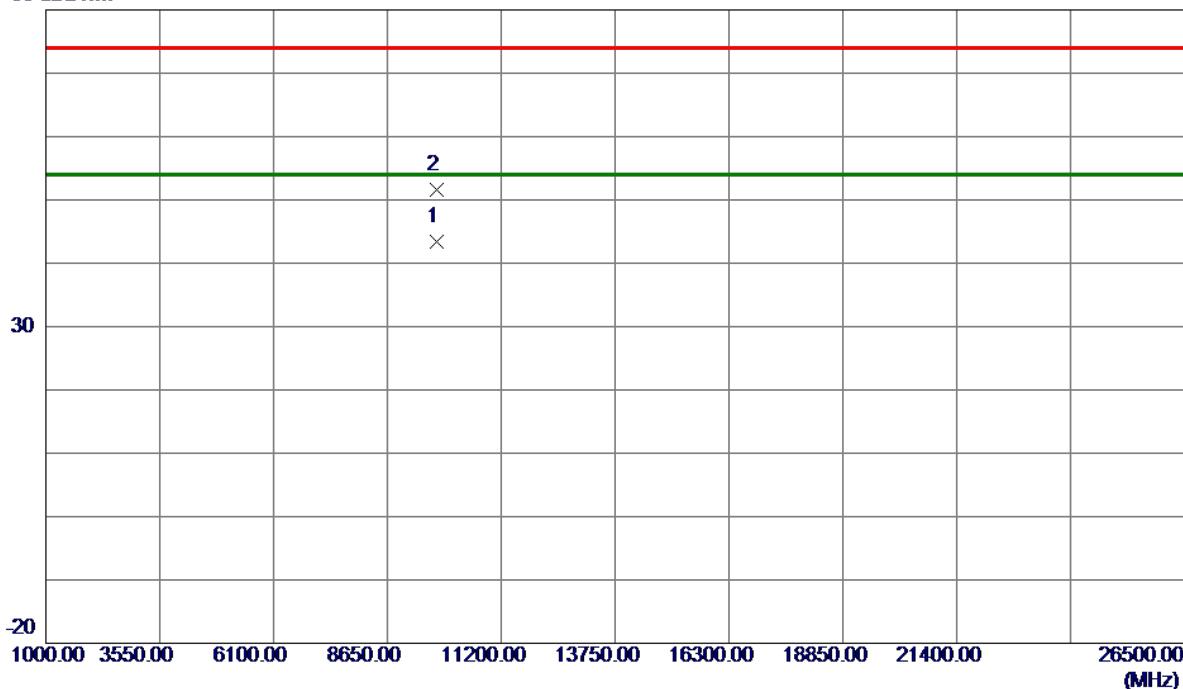
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2433.6000	79.26	8.99	88.25	54.00	34.25	AVG	No Limit
2	2445.2000	89.88	8.98	98.86	74.00	24.86	Peak	No Limit

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2437MHz

Horizontal

80 dBuV/m

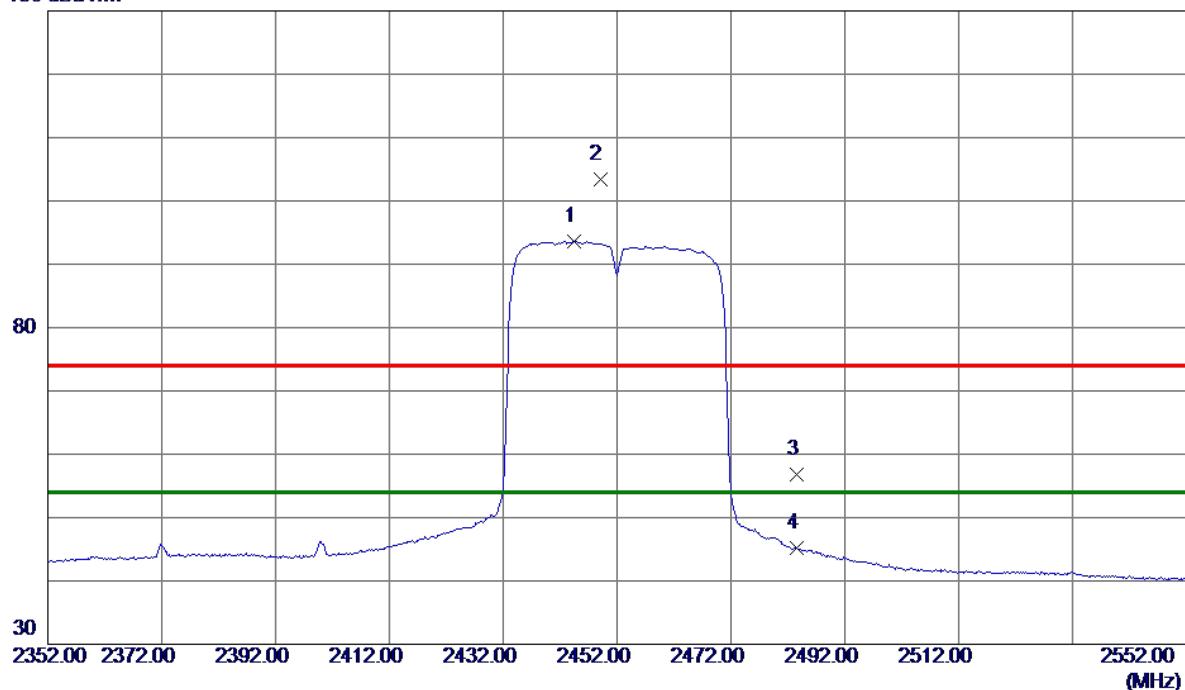


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	9747.9020	29.32	14.04	43.36	54.00	-10.64	AVG	
2	9748.2020	37.62	14.04	51.66	74.00	-22.34	Peak	

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

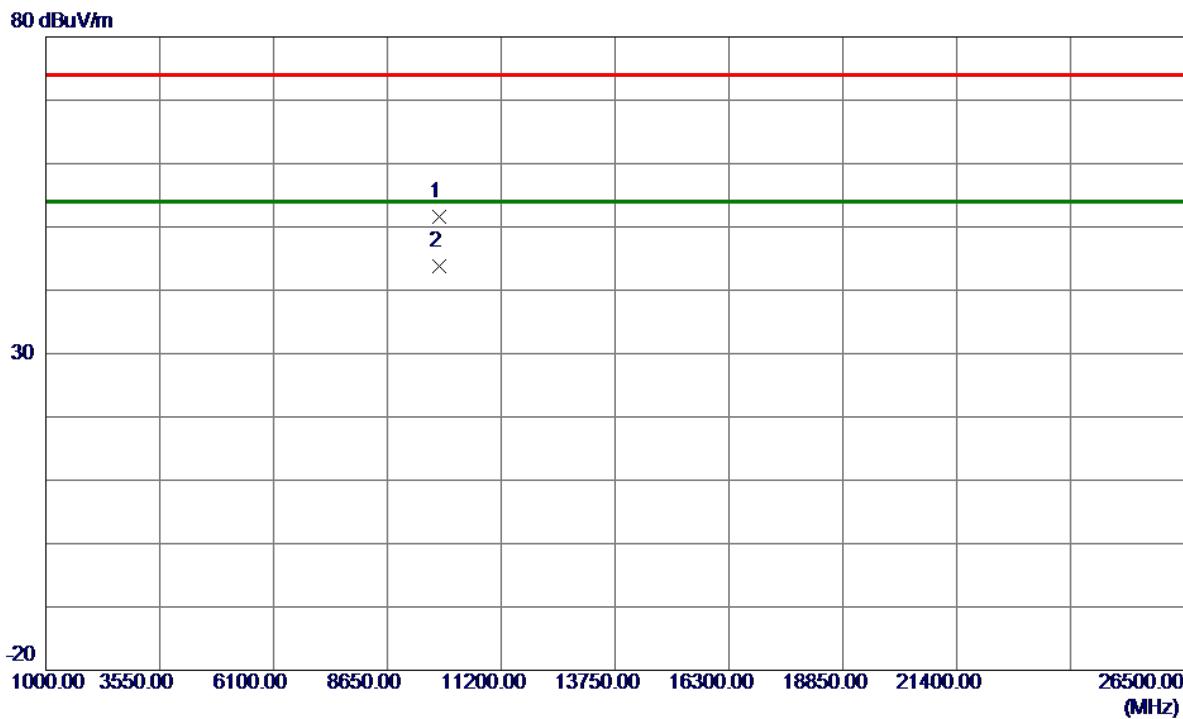
Vertical

130 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2444.4000	84.58	8.98	93.56	54.00	39.56	AVG	No Limit
2	2449.0000	94.46	8.98	103.44	74.00	29.44	Peak	No Limit
3	2483.5000	47.80	8.97	56.77	74.00	-17.23	Peak	
4	2483.5000	36.20	8.97	45.17	54.00	-8.83	AVG	

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

Vertical

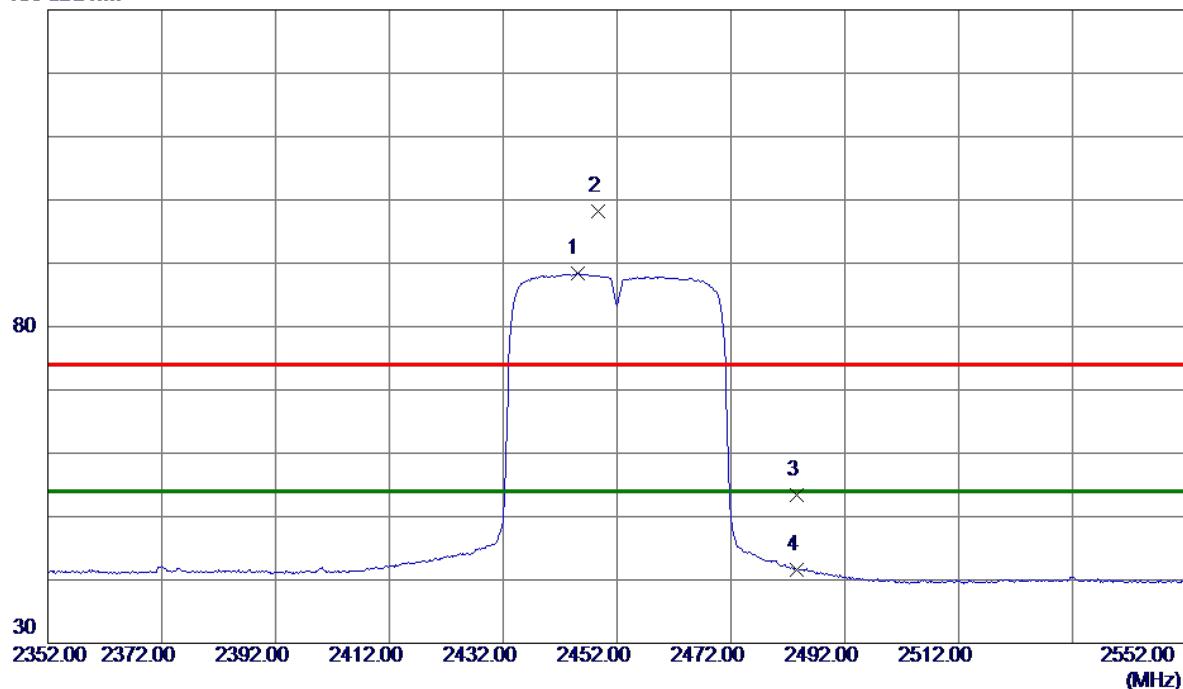
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	9807.6140	37.47	14.08	51.55	74.00	-22.45	Peak	
2 *	9807.9480	29.69	14.08	43.77	54.00	-10.23	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

Horizontal

130 dBuV/m



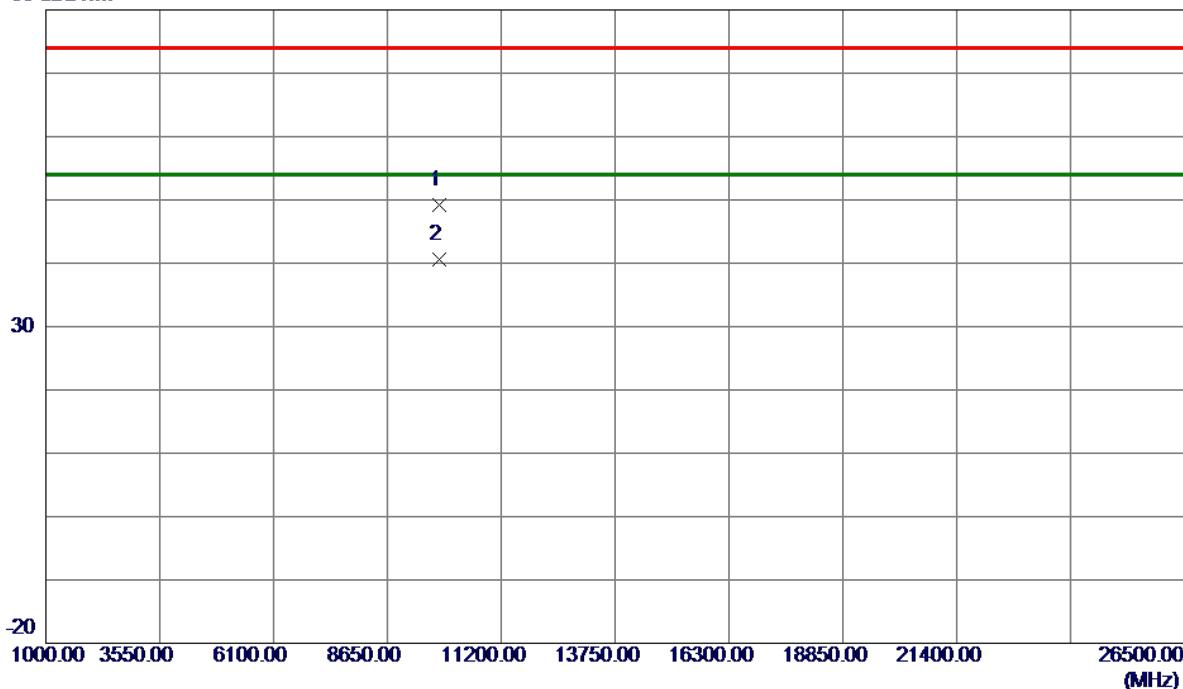
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2445.0000	79.40	8.98	88.38	54.00	34.38	AVG	No Limit
2	2448.6000	89.28	8.98	98.26	74.00	24.26	Peak	No Limit
3	2483.5000	44.36	8.97	53.33	74.00	-20.67	Peak	
4	2483.5000	32.68	8.97	41.65	54.00	-12.35	AVG	

Orthogonal Axis : X

Test Mode : TX N-40M MODE 2452MHz

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	9807.6780	35.14	14.08	49.22	74.00	-24.78	Peak	
2 *	9807.9040	26.51	14.08	40.59	54.00	-13.41	AVG	

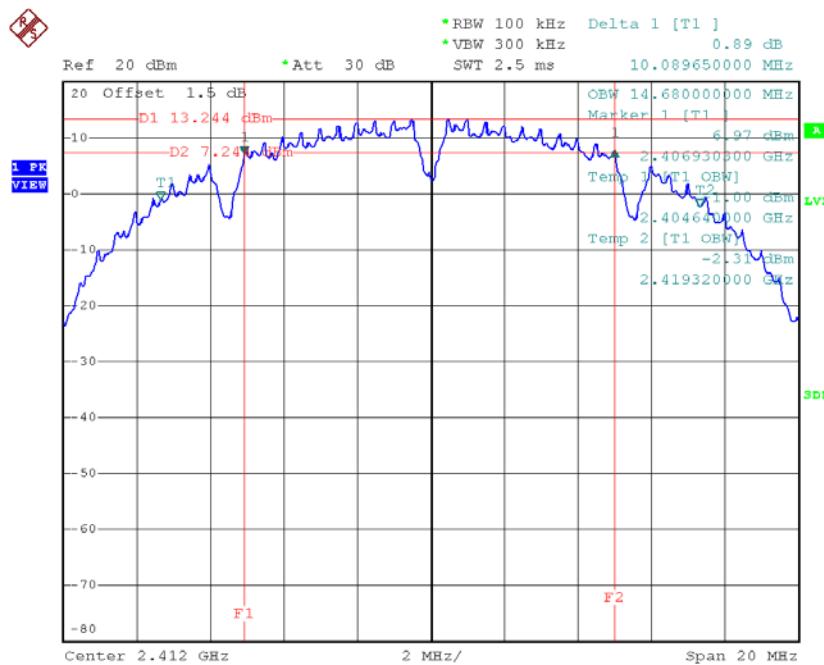
APPENDIX E - BANDWIDTH

Non Beamforming

Test Mode : TX B Mode_CH01/06/11

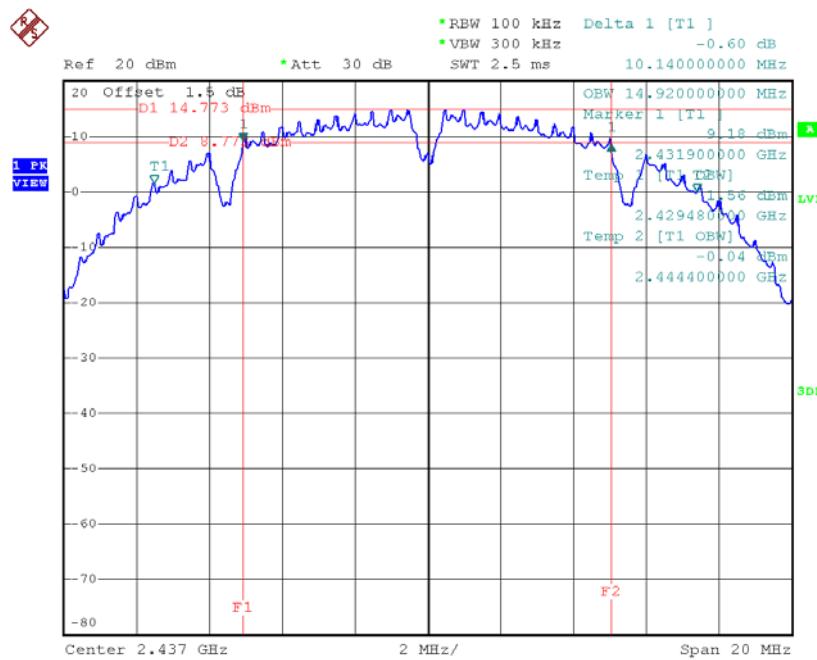
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.09	14.68	500	Complies
2437	10.14	14.92	500	Complies
2462	10.13	14.64	500	Complies

TX CH01



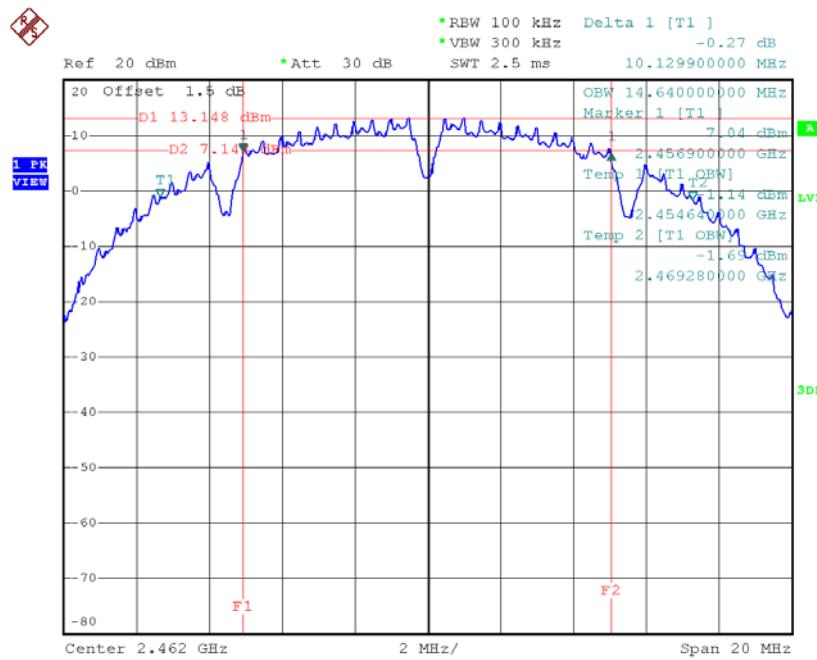
Date: 24.APR.2018 17:50:33

TX CH06



Date: 24.APR.2018 17:45:45

TX CH11

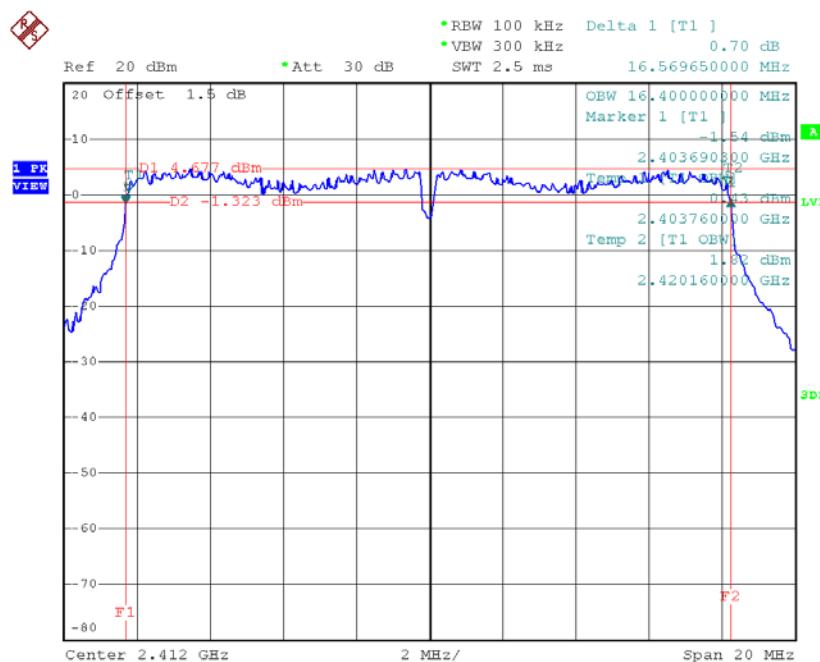


Date: 24.APR.2018 17:52:07

Test Mode: TX G Mode_CH01/06/11

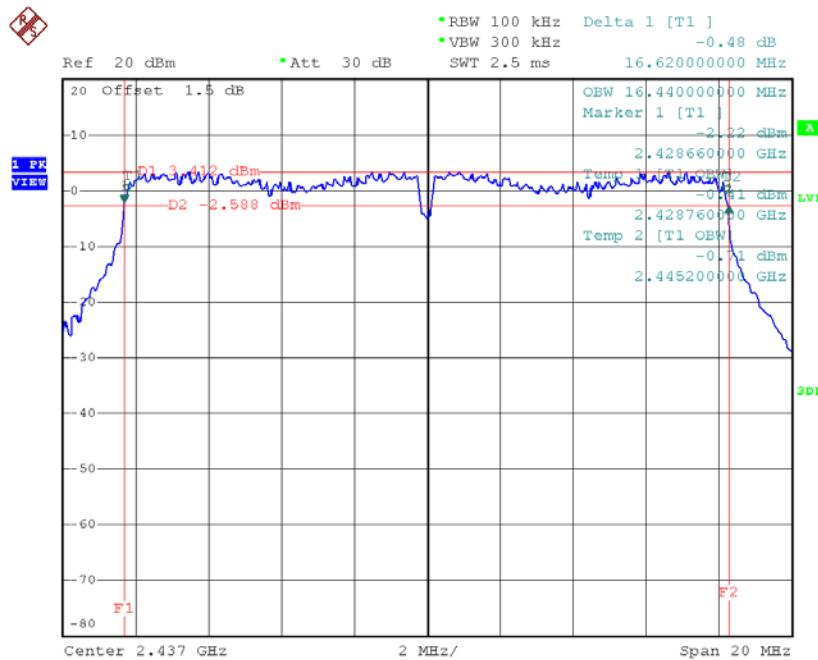
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.57	16.40	500	Complies
2437	16.62	16.44	500	Complies
2462	16.58	16.44	500	Complies

TX CH01



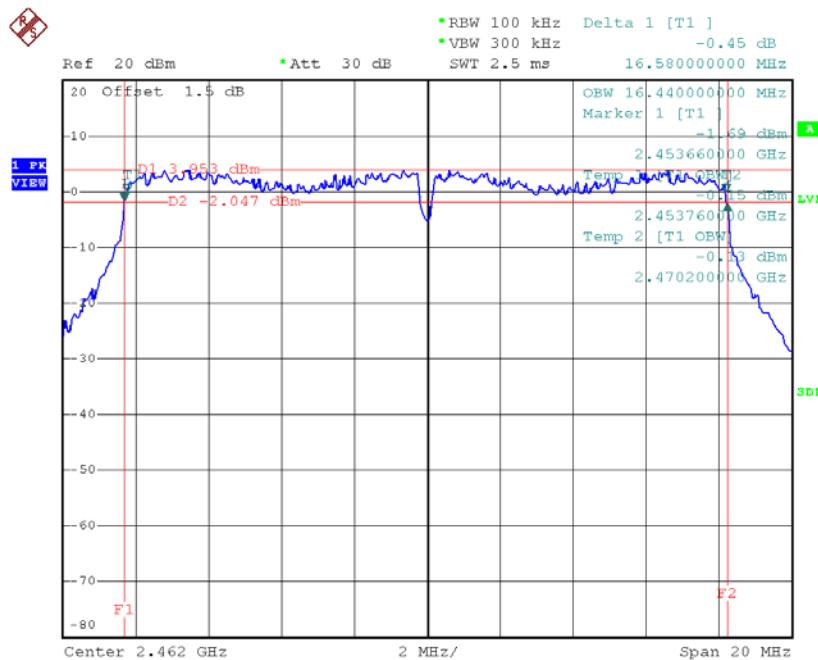
Date: 24.APR.2018 17:53:52

TX CH06



Date: 24.APR.2018 17:55:14

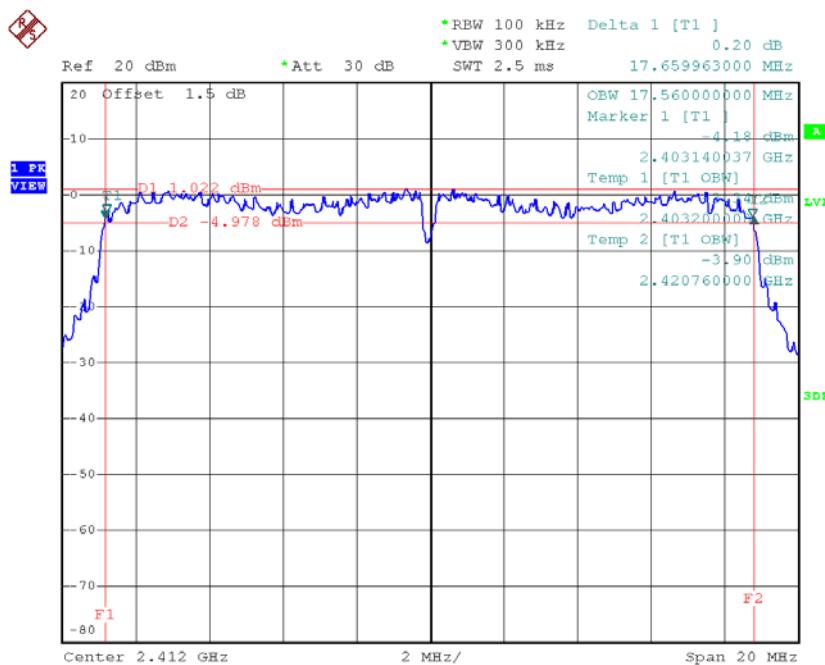
TX CH11



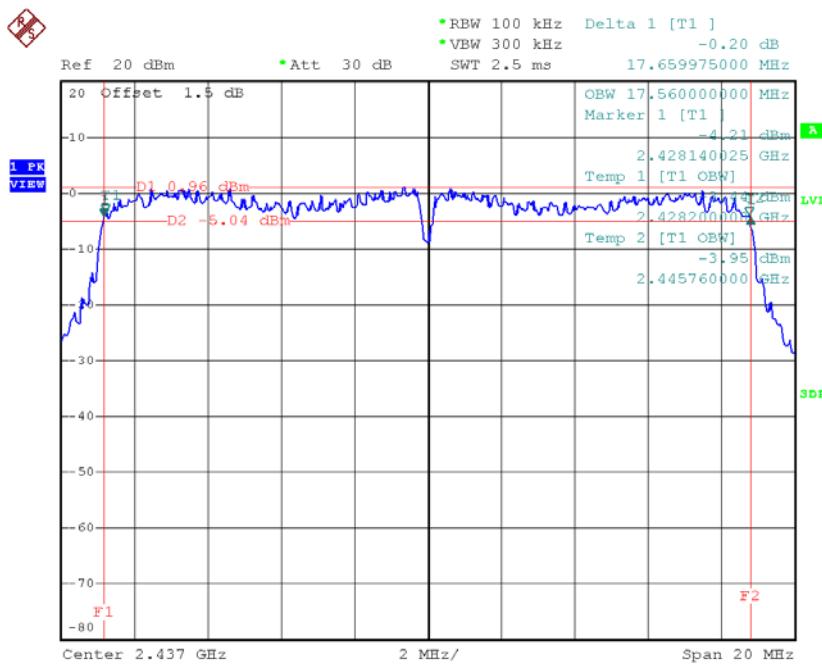
Date: 24.APR.2018 17:56:38

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

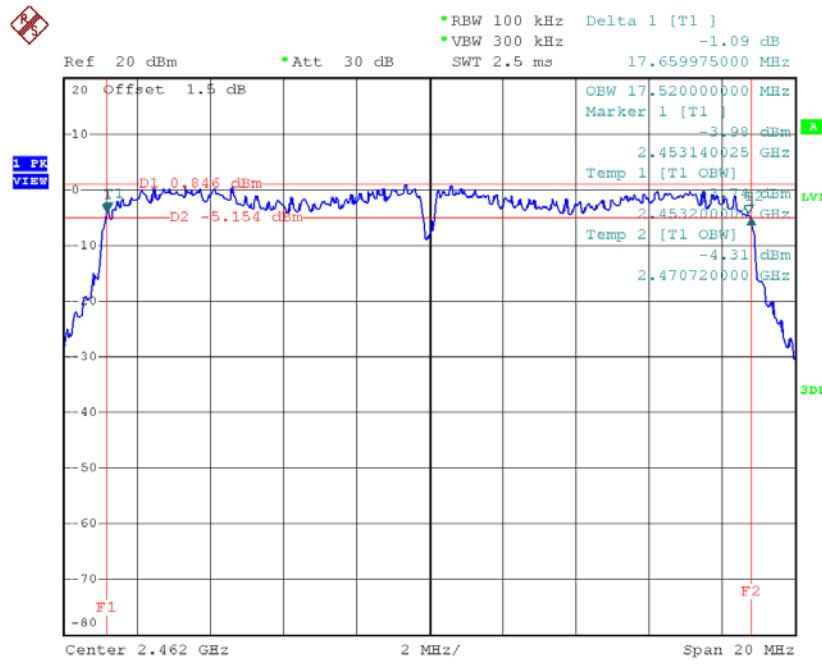
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.66	17.56	500	Complies
2437	17.66	17.56	500	Complies
2462	17.66	17.52	500	Complies

TX CH01


Date: 24.APR.2018 17:58:44

TX CH06

Date: 24.APR.2018 18:01:13

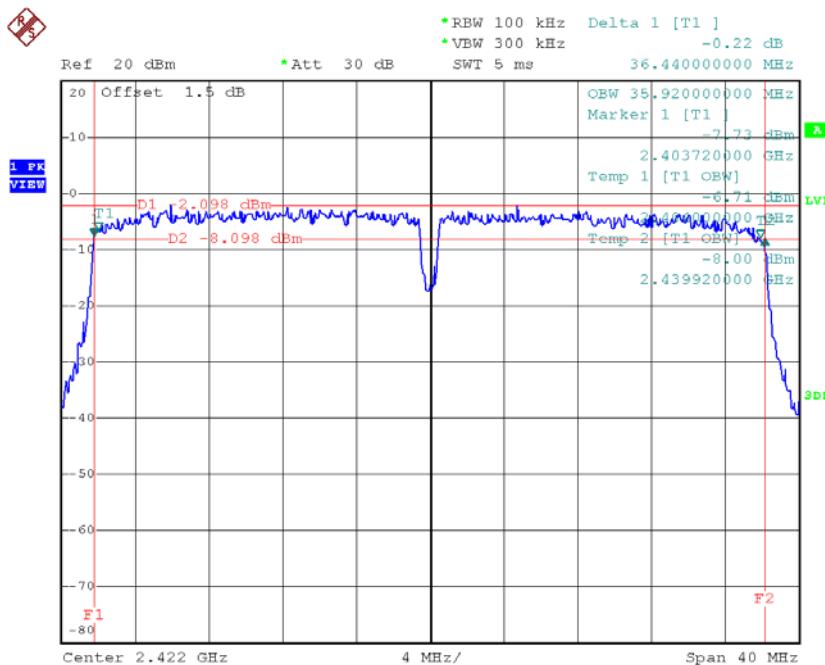
TX CH11

Date: 24.APR.2018 19:08:01

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

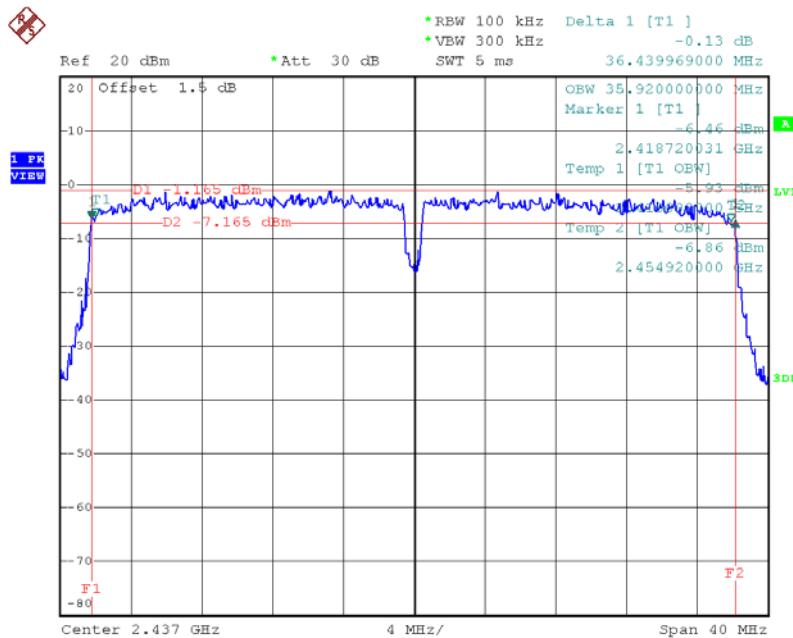
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.44	35.92	500	Complies
2437	36.44	35.92	500	Complies
2452	36.44	35.92	500	Complies

TX CH03



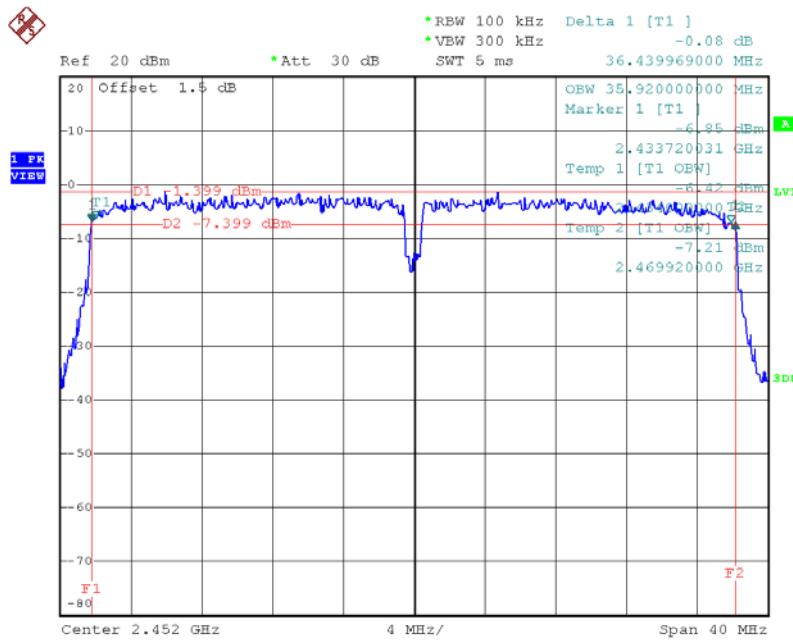
Date: 24.APR.2018 19:10:17

TX CH06



Date: 24.APR.2018 19:13:53

TX CH09



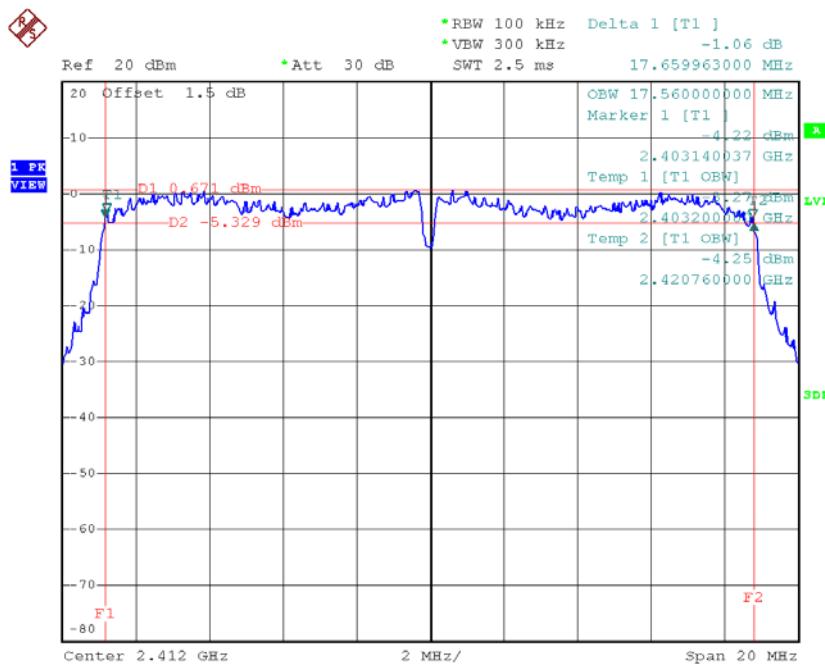
Date: 24.APR.2018 19:15:39

Beamforming

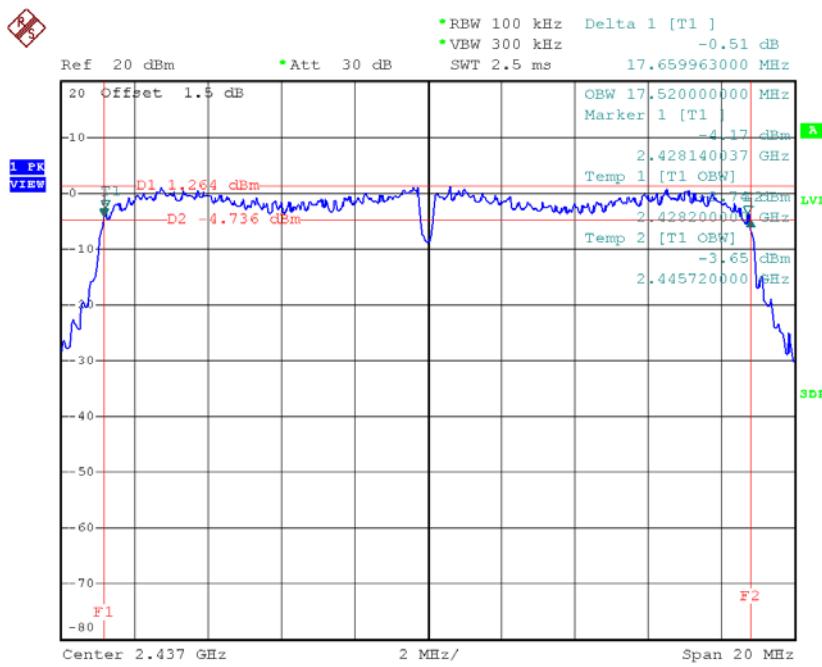
Test Mode : TX N-20MHz Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.66	17.56	500	Complies
2437	17.66	17.52	500	Complies
2462	17.66	17.52	500	Complies

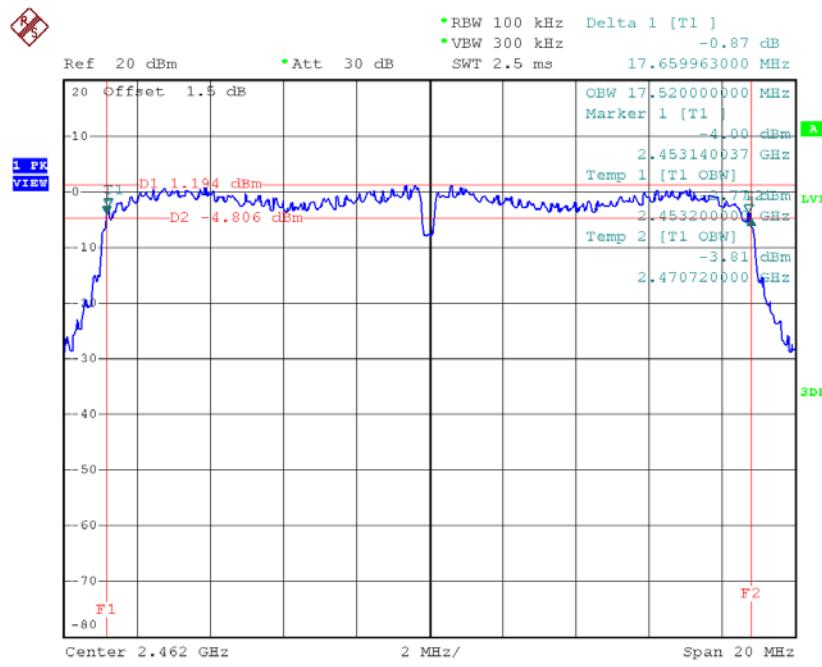
TX CH01



Date: 24.APR.2018 19:51:31

TX CH06

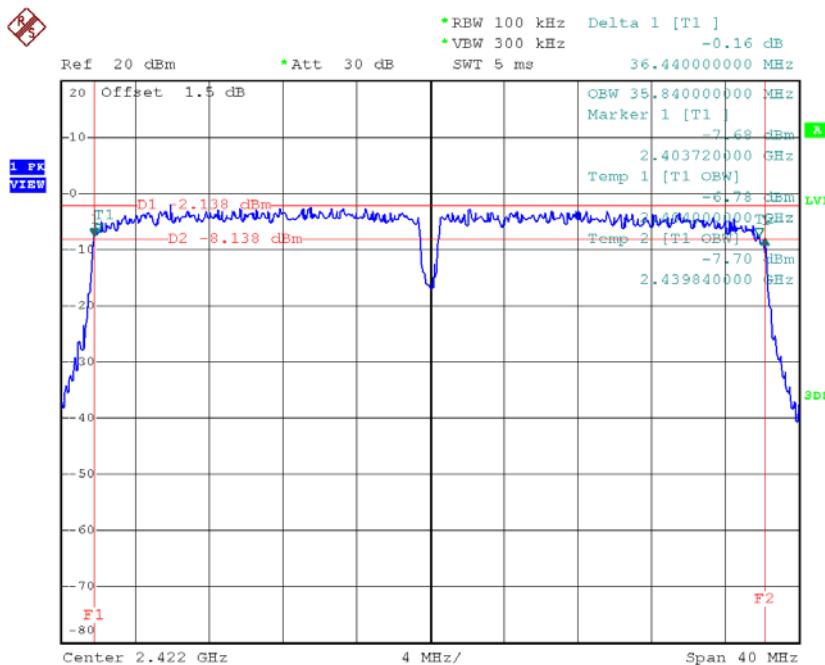
Date: 24.APR.2018 19:53:29

TX CH11

Date: 24.APR.2018 19:54:40

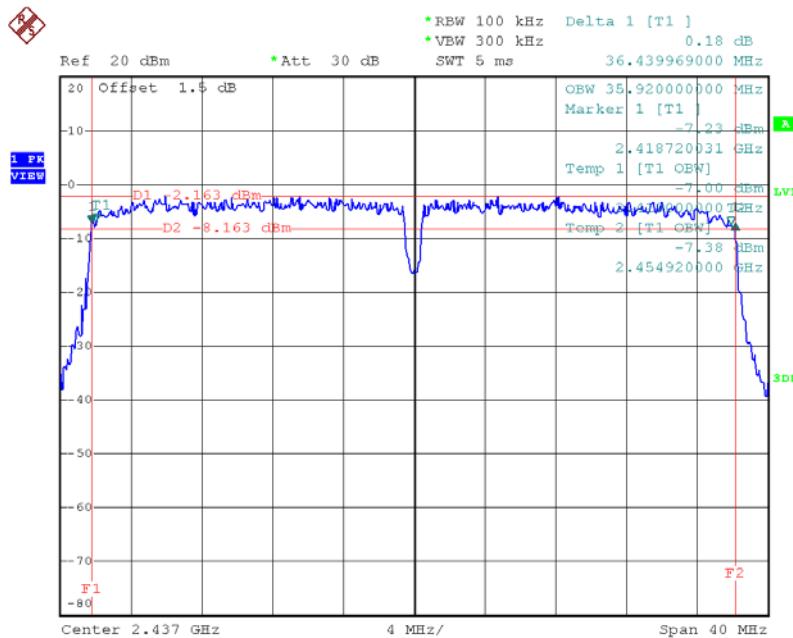
Test Mode : TX N-40MHz Mode_CH03/06/09

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	36.44	35.84	500	Complies
2437	36.44	35.92	500	Complies
2452	36.44	35.92	500	Complies

TX CH03


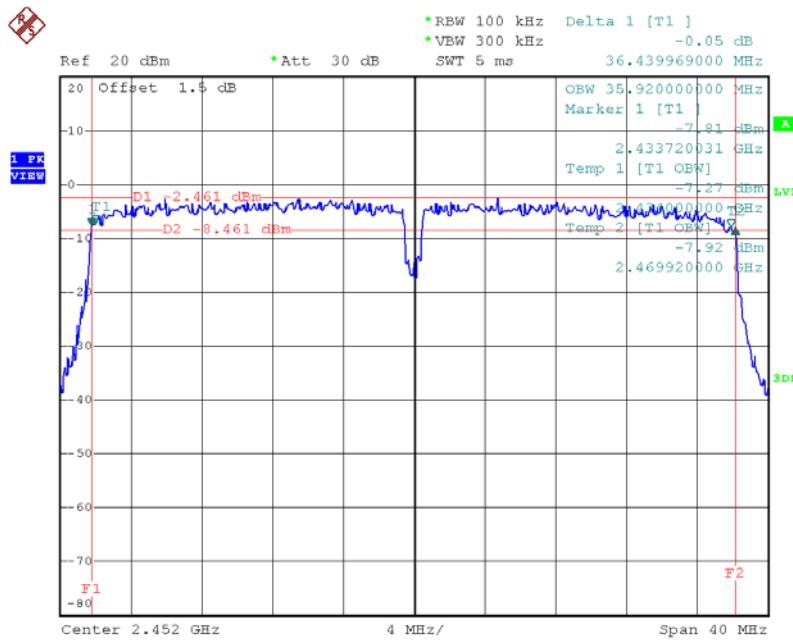
Date: 24.APR.2018 19:56:03

TX CH06



Date: 24.APR.2018 19:58:01

TX CH09



Date: 24.APR.2018 19:59:26

APPENDIX F - MAXIMUM PEAK CONDUCTED OUTPUT POWER

Non Beamforming

Test Mode :TX B Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	27.31	0.54	30.00	1.00	Complies
2437	27.38	0.55	30.00	1.00	Complies
2462	27.61	0.58	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1					
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	27.79	0.60	30.00	1.00	Complies
2437	27.32	0.54	30.00	1.00	Complies
2462	27.43	0.55	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	24.58	0.29	29.99	1.00	Complies
2437	24.37	0.27	29.99	1.00	Complies
2462	24.52	0.28	29.99	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	24.59	0.29	29.99	1.00	Complies
2437	24.07	0.26	29.99	1.00	Complies
2462	24.47	0.28	29.99	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	27.60	0.57	29.99	1.00	Complies
2437	27.23	0.53	29.99	1.00	Complies
2462	27.51	0.56	29.99	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	24.22	0.26	29.99	1.00	Complies
2437	24.64	0.29	29.99	1.00	Complies
2452	24.48	0.28	29.99	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	24.29	0.27	29.99	1.00	Complies
2437	24.67	0.29	29.99	1.00	Complies
2452	24.33	0.27	29.99	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	27.27	0.53	29.99	1.00	Complies
2437	27.67	0.58	29.99	1.00	Complies
2452	27.42	0.55	29.99	1.00	Complies

Beamforming

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	24.42	0.28	30.00	1.00	Complies
2437	24.19	0.26	30.00	1.00	Complies
2462	24.34	0.27	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	24.41	0.28	30.00	1.00	Complies
2437	23.89	0.24	30.00	1.00	Complies
2462	24.29	0.27	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	27.43	0.55	30.00	1.00	Complies
2437	27.05	0.51	30.00	1.00	Complies
2462	27.33	0.54	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	24.04	0.25	30.00	1.00	Complies
2437	24.46	0.28	30.00	1.00	Complies
2452	24.31	0.27	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	24.11	0.26	30.00	1.00	Complies
2437	24.49	0.28	30.00	1.00	Complies
2452	24.15	0.26	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total

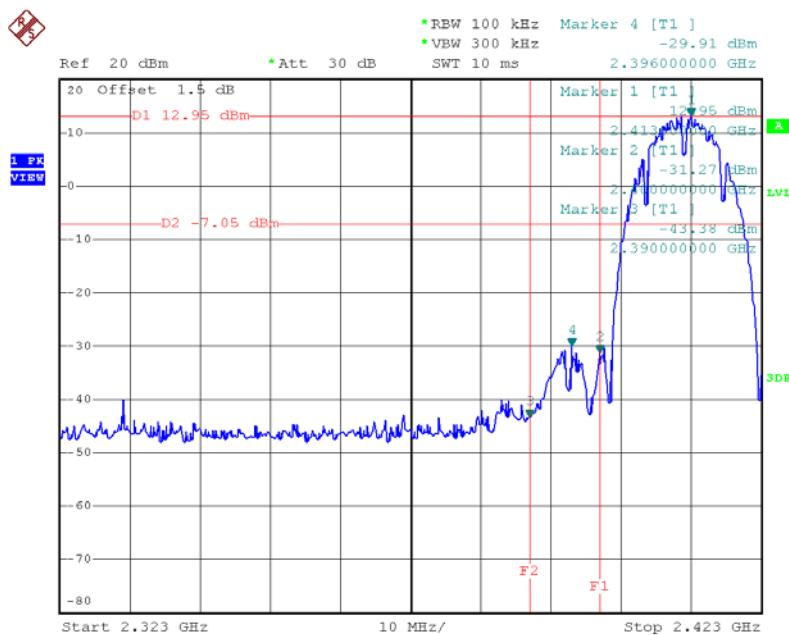
Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	27.09	0.51	30.00	1.00	Complies
2437	27.49	0.56	30.00	1.00	Complies
2452	27.24	0.53	30.00	1.00	Complies

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

Non Beamforming

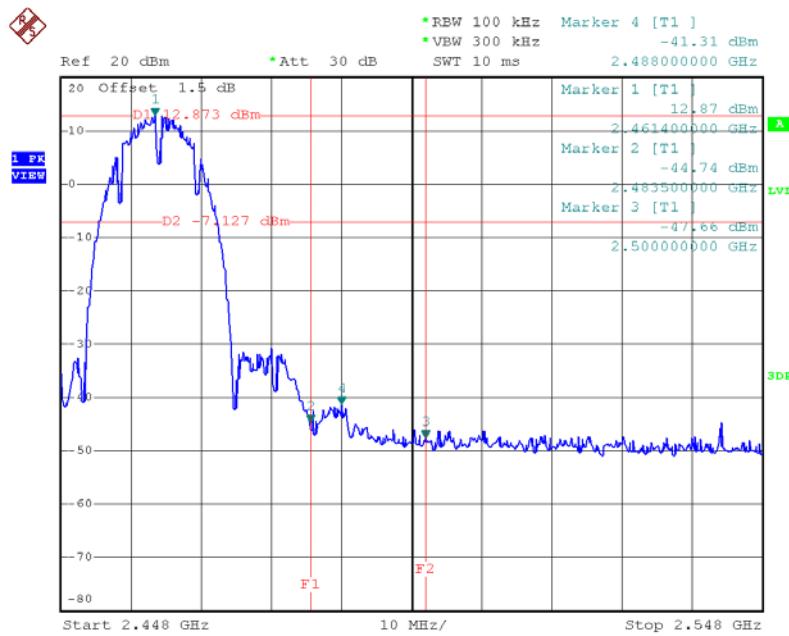
Test Mode : TX B Mode

TX B mode CH01



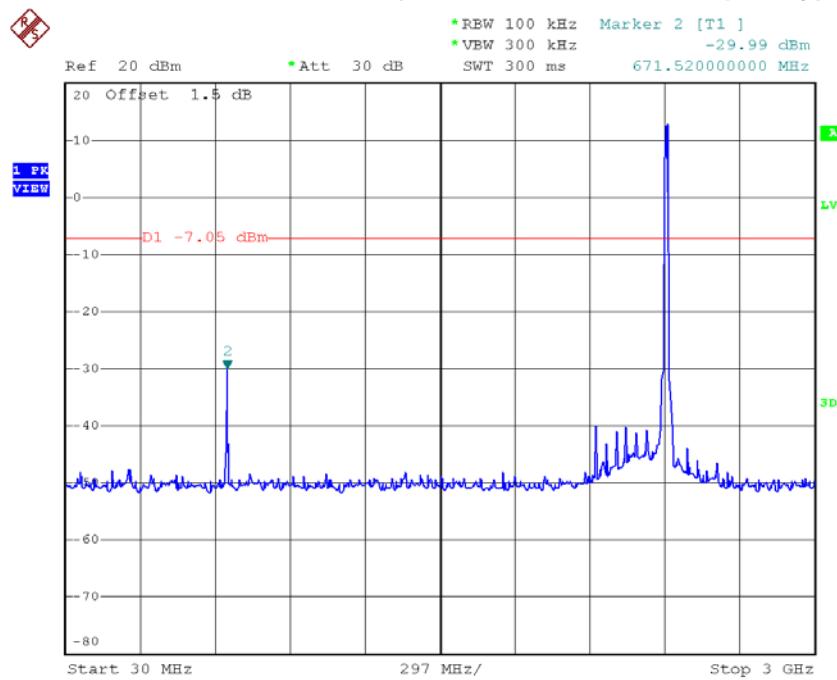
Date: 24.APR.2018 17:50:41

TX B mode CH11

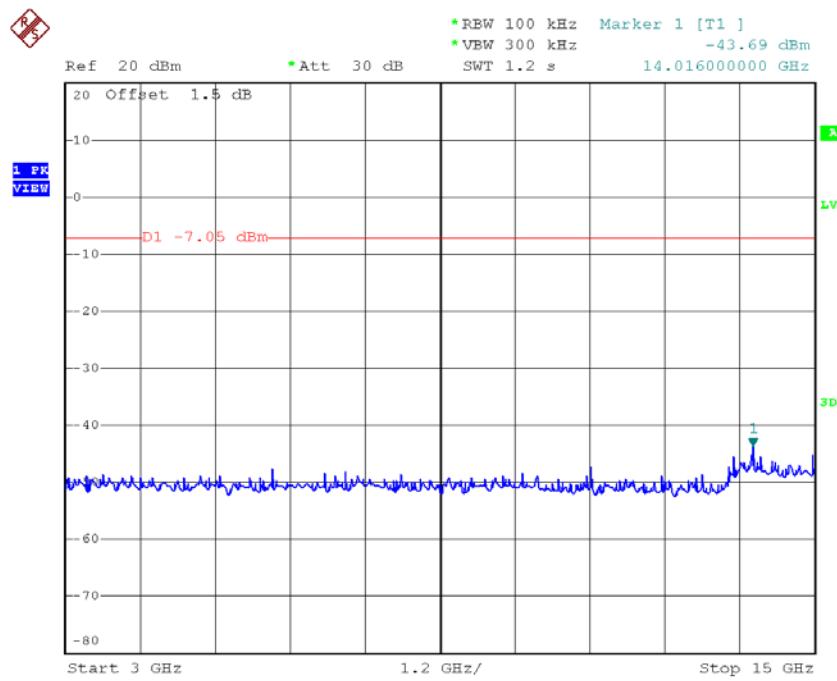


Date: 24.APR.2018 17:52:15

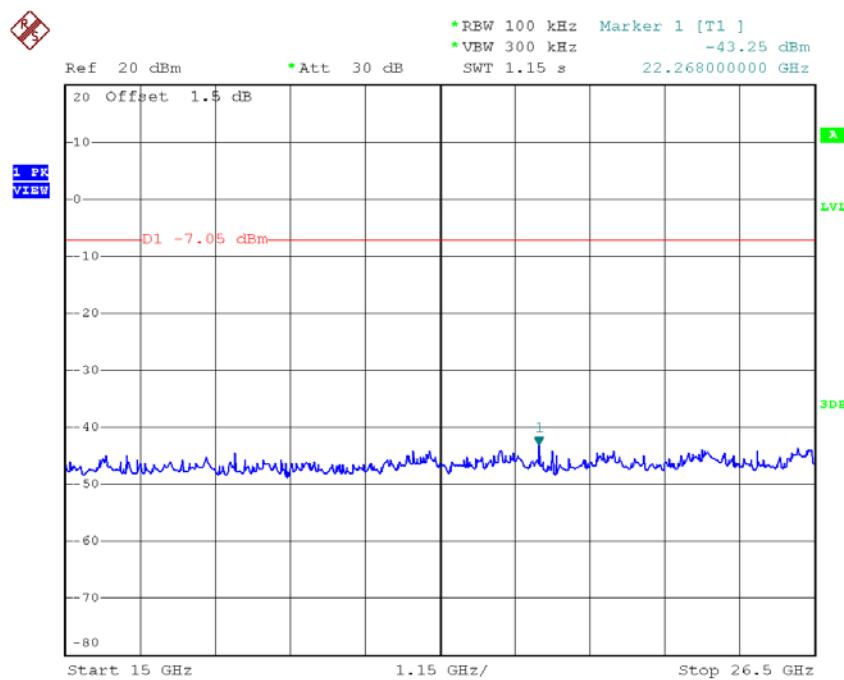
TX B mode CH01 (10 Harmonic of the frequency)



Date: 24.APR.2018 17:50:55

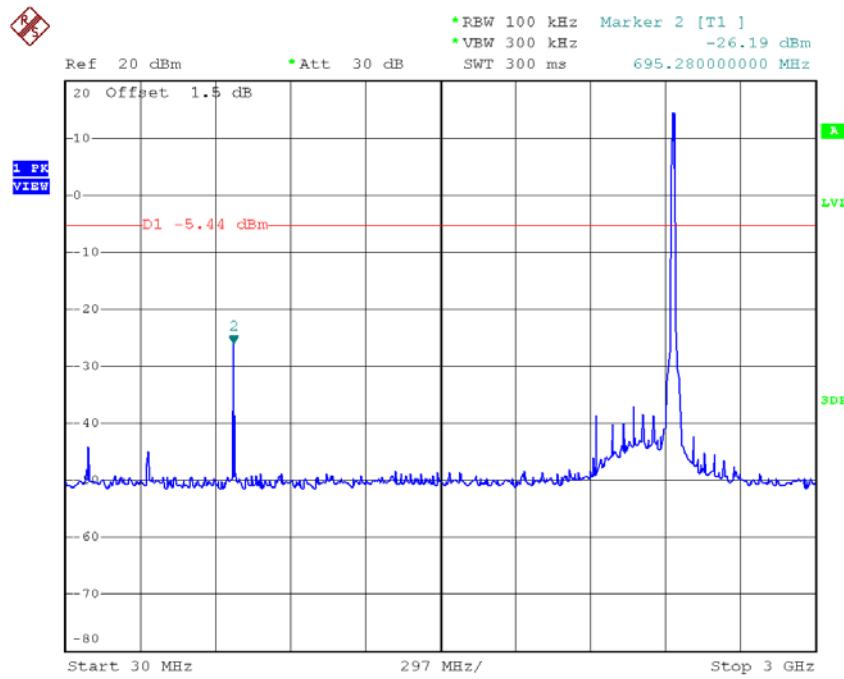


Date: 24.APR.2018 17:51:03

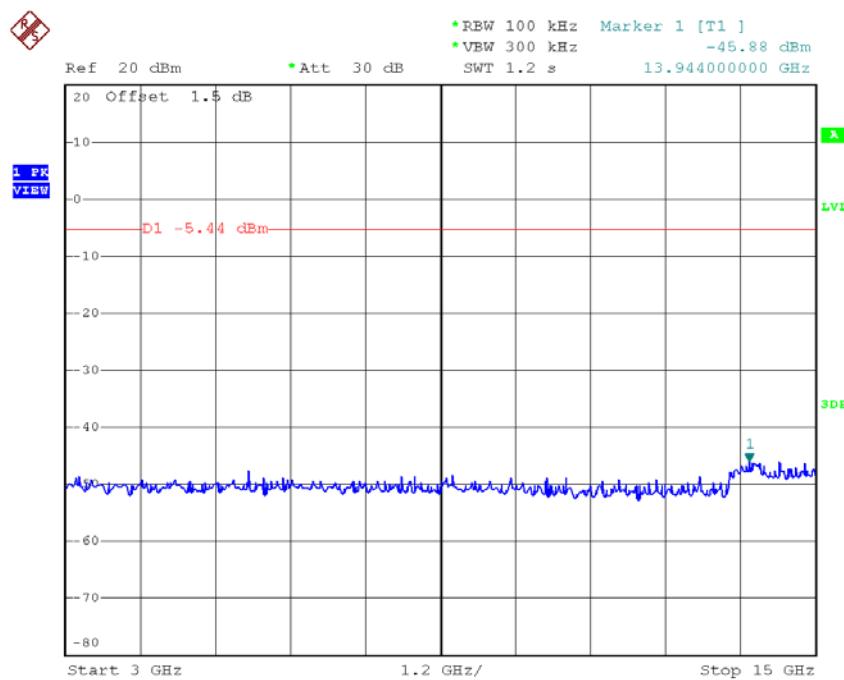


Date: 24.APR.2018 17:51:12

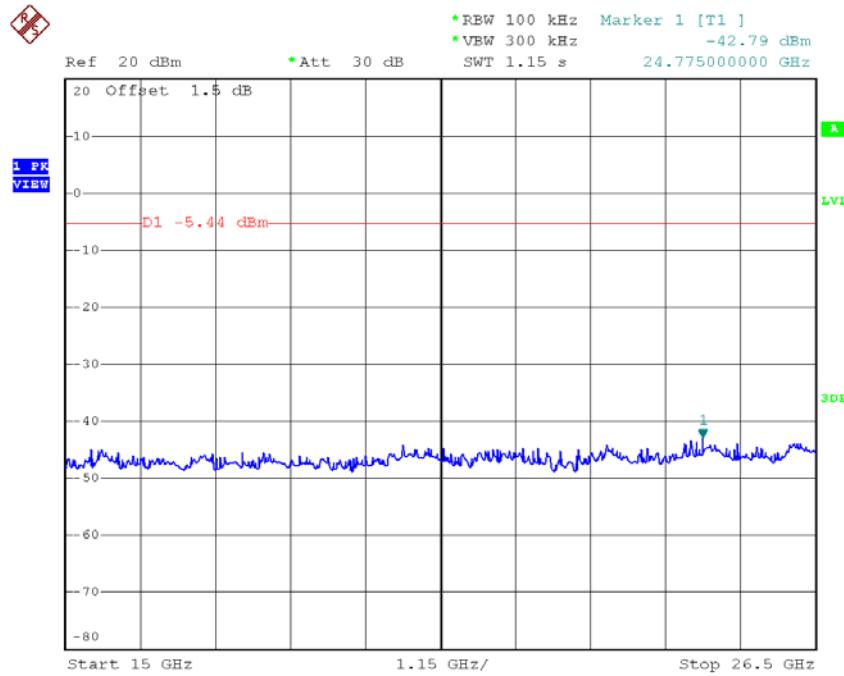
TX B mode CH06 (10 Harmonic of the frequency)



Date: 24.APR.2018 17:46:07

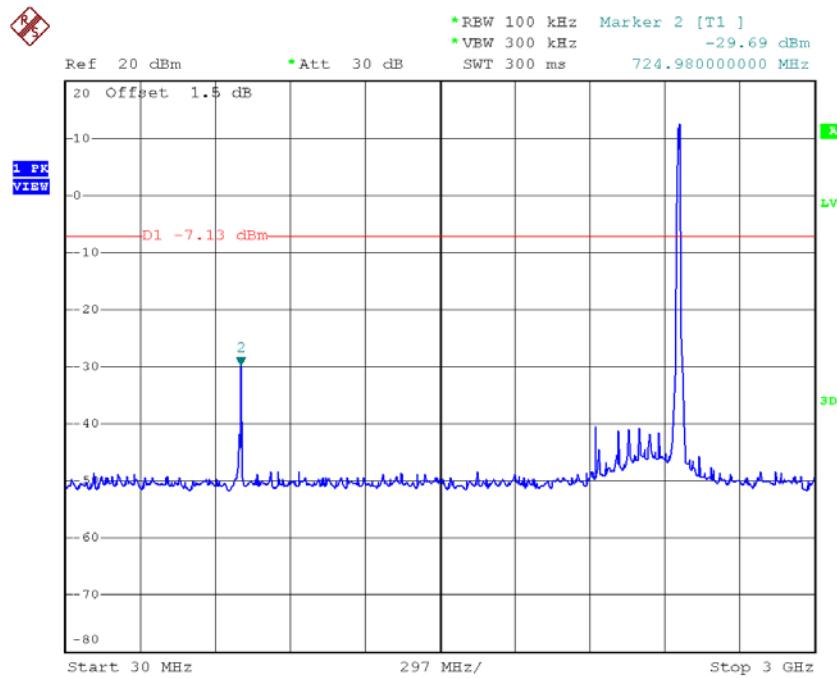


Date: 24.APR.2018 17:46:15

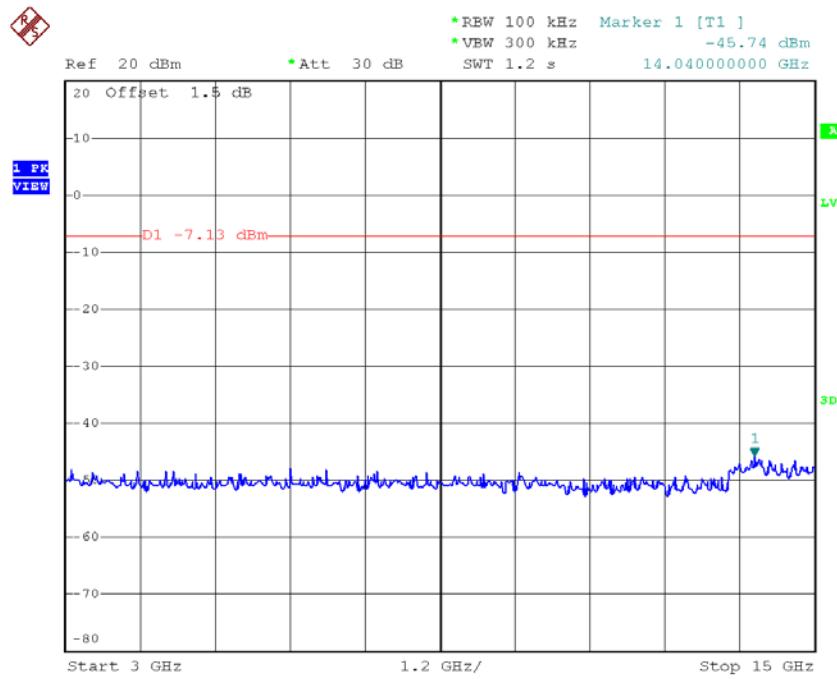


Date: 24.APR.2018 17:46:24

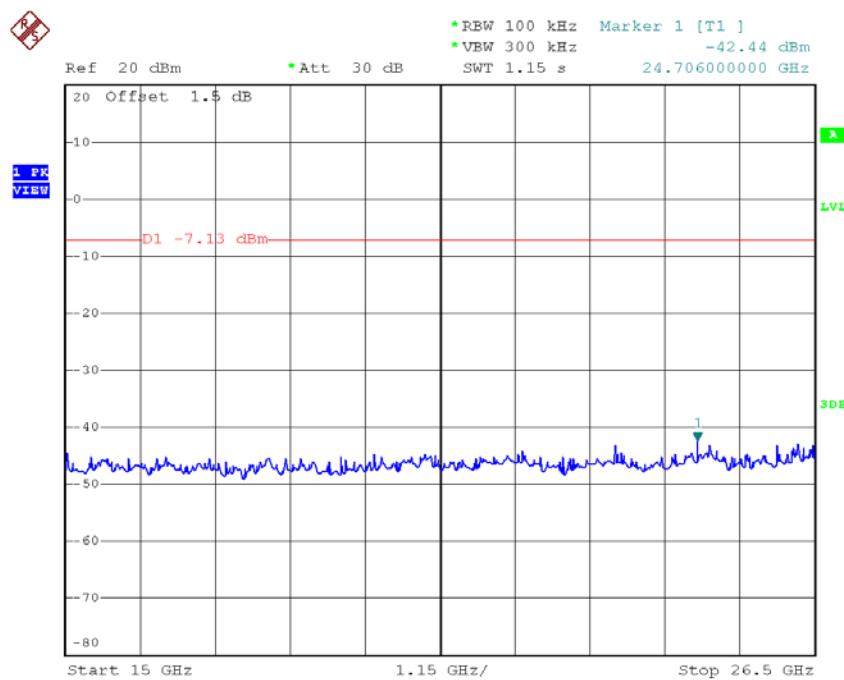
TX B mode CH11 (10 Harmonic of the frequency)



Date: 24.APR.2018 17:52:29



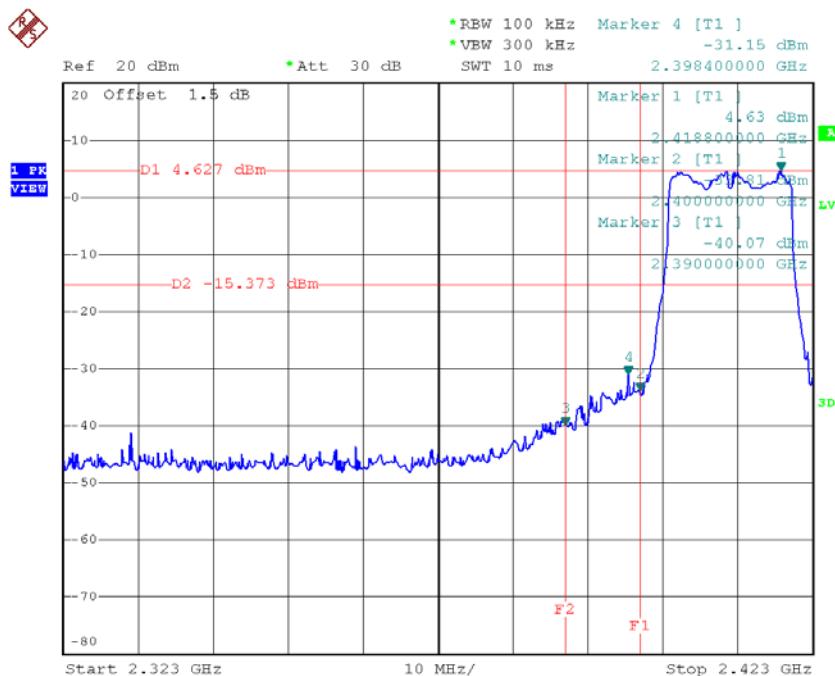
Date: 24.APR.2018 17:52:37



Date: 24.APR.2018 17:52:45

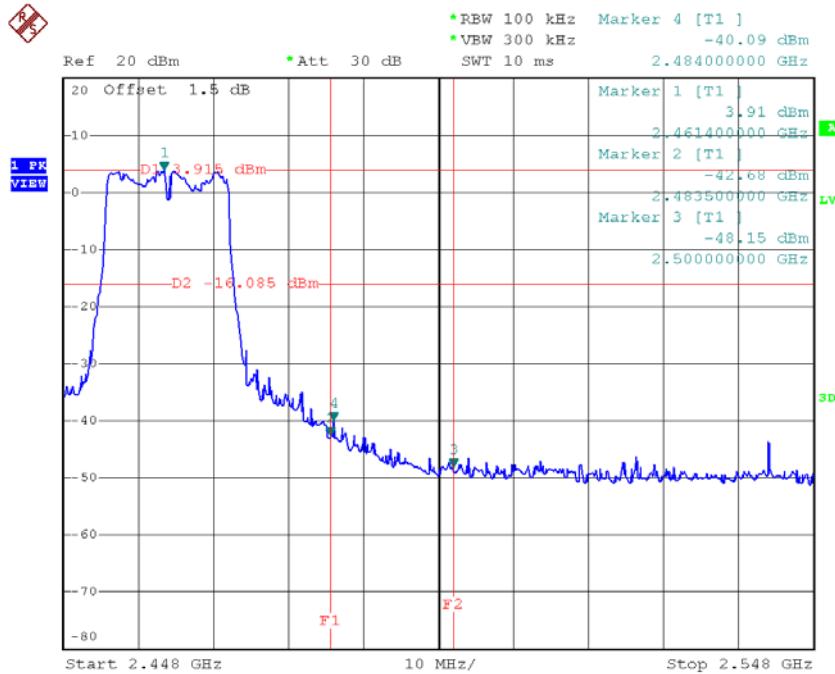
Test Mode :	TX G Mode
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TX G mode CH01



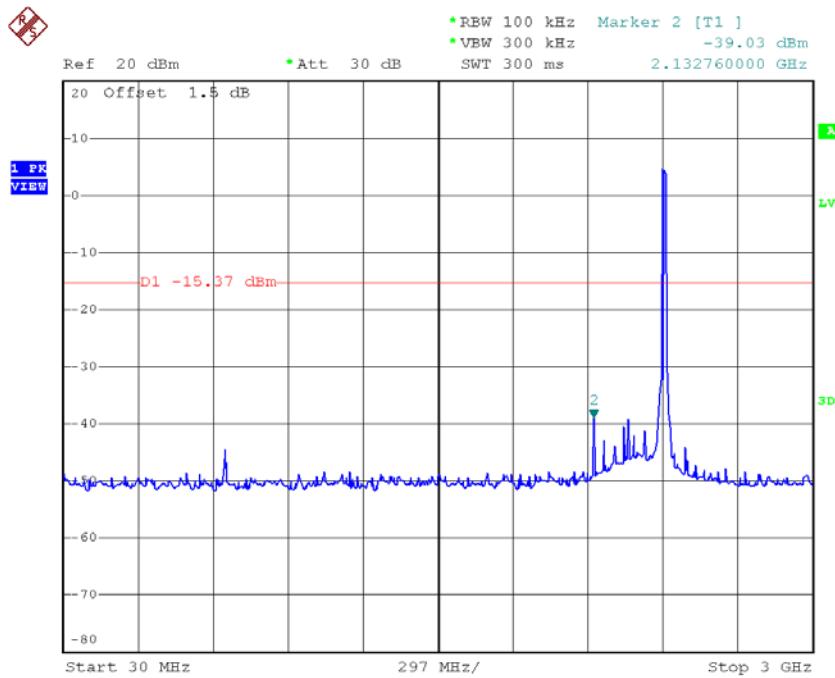
Date: 24.APR.2018 17:54:00

TX G mode CH11

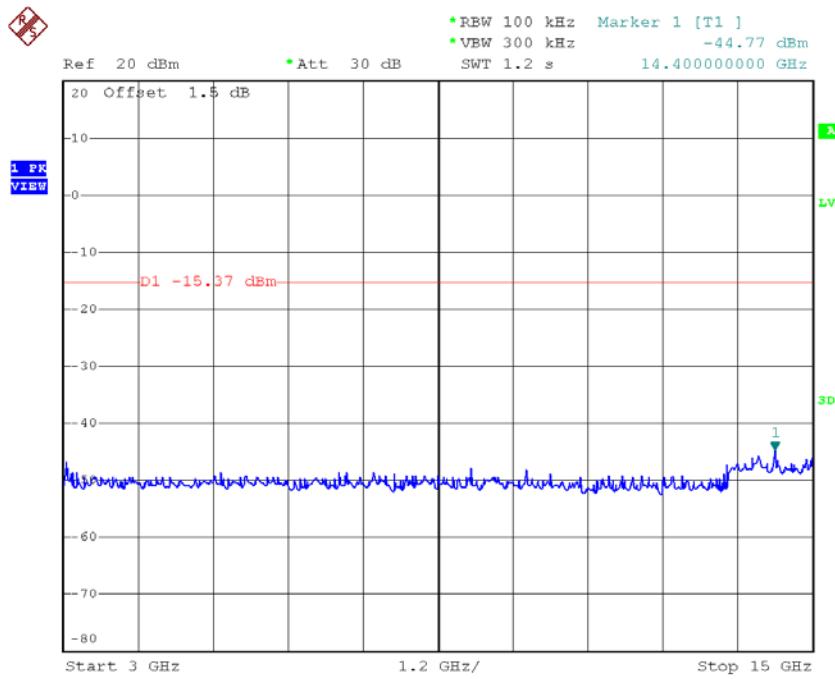


Date: 24.APR.2018 17:56:46

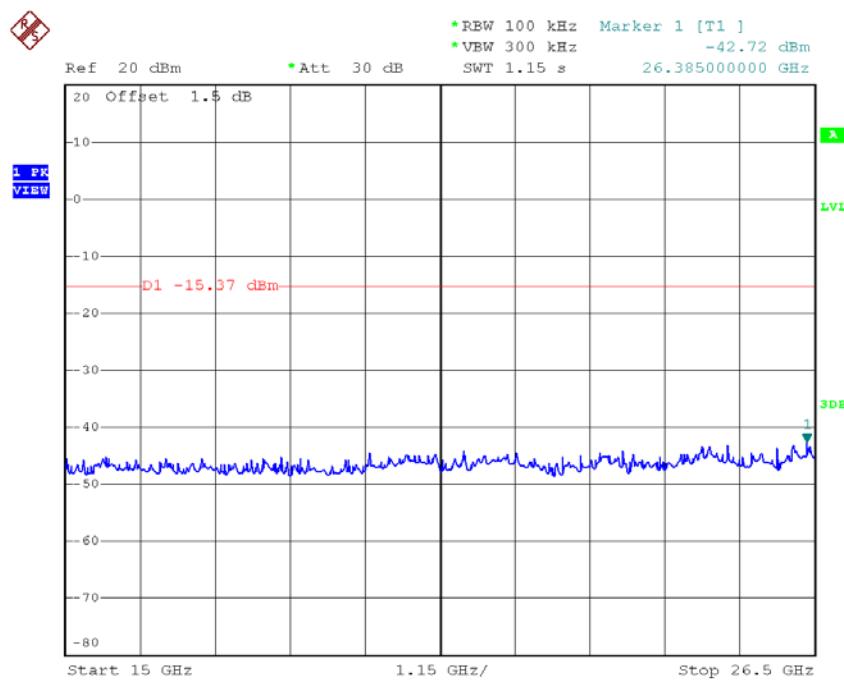
TX G mode CH01 (10 Harmonic of the frequency)



Date: 24.APR.2018 17:54:14

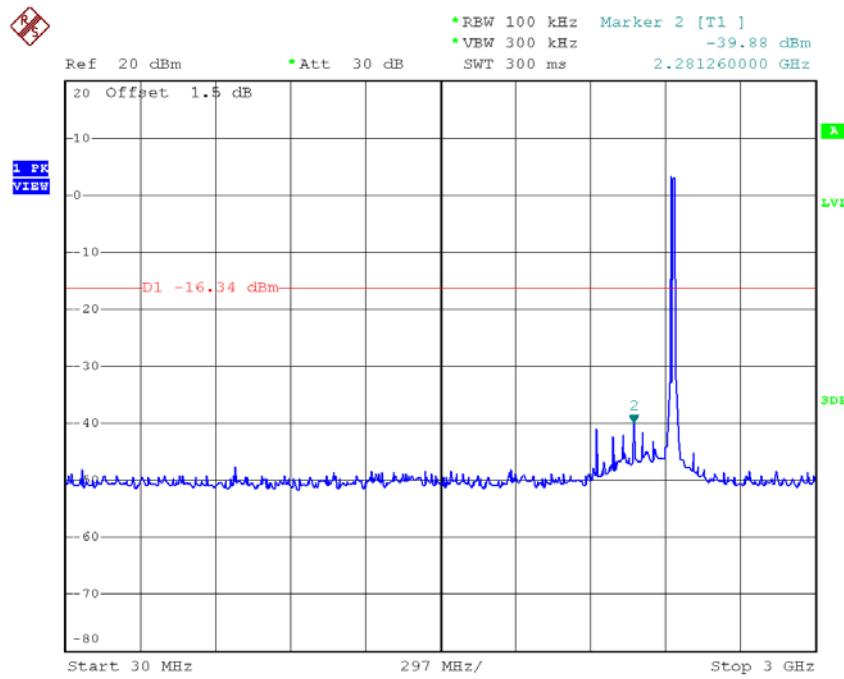


Date: 24.APR.2018 17:54:23

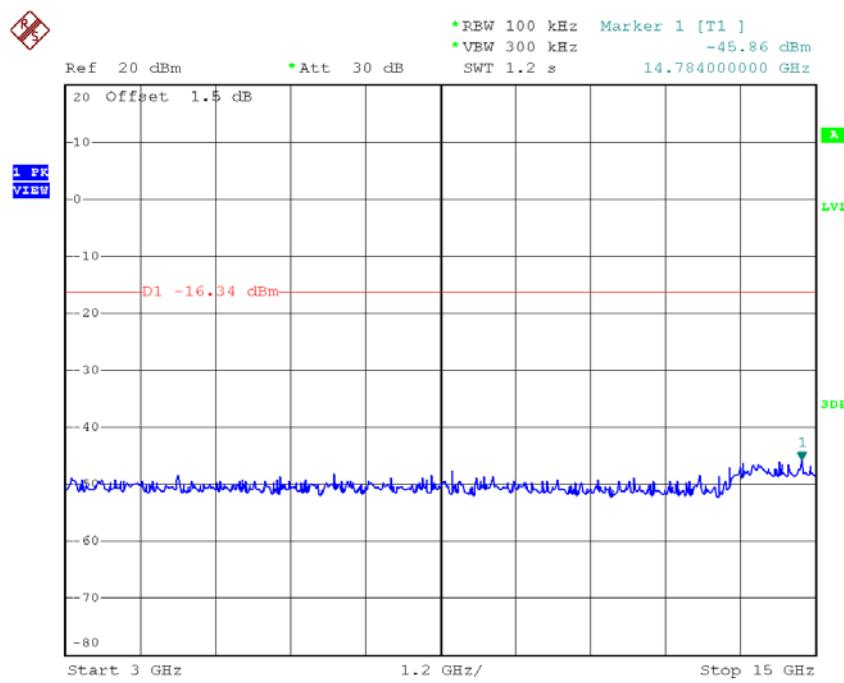


Date: 24.APR.2018 17:54:31

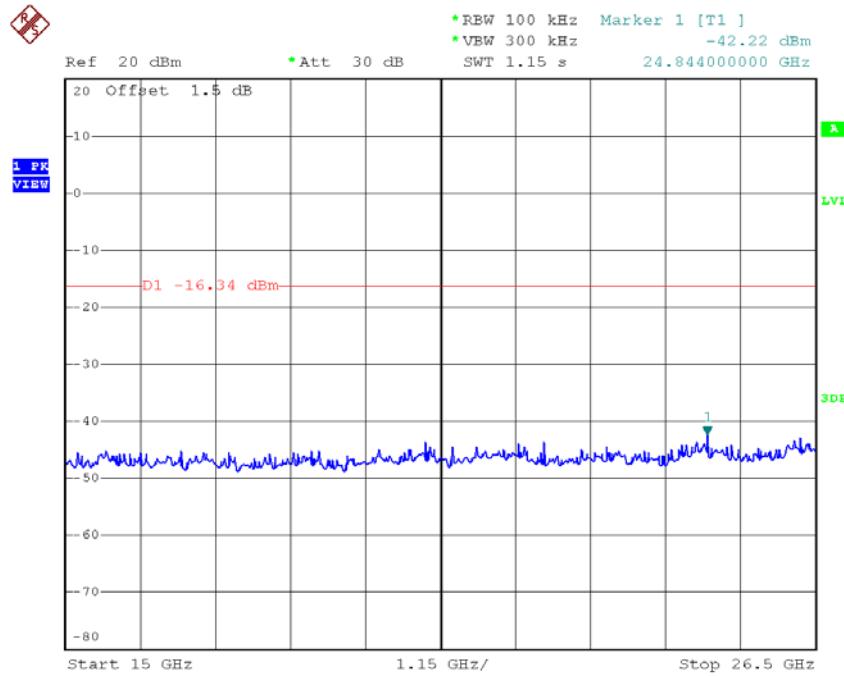
TX G mode CH06 (10 Harmonic of the frequency)



Date: 24.APR.2018 17:55:35

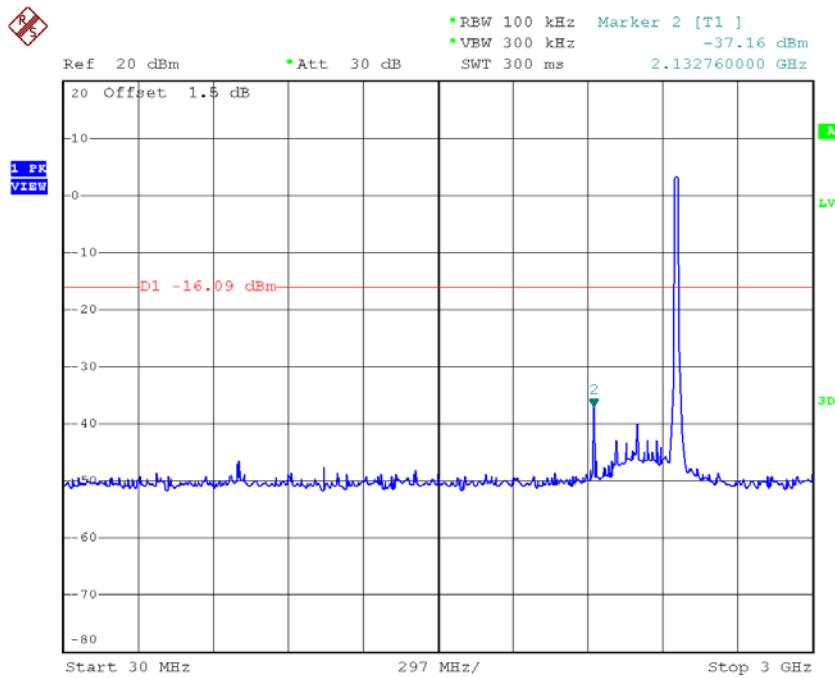


Date: 24.APR.2018 17:55:43

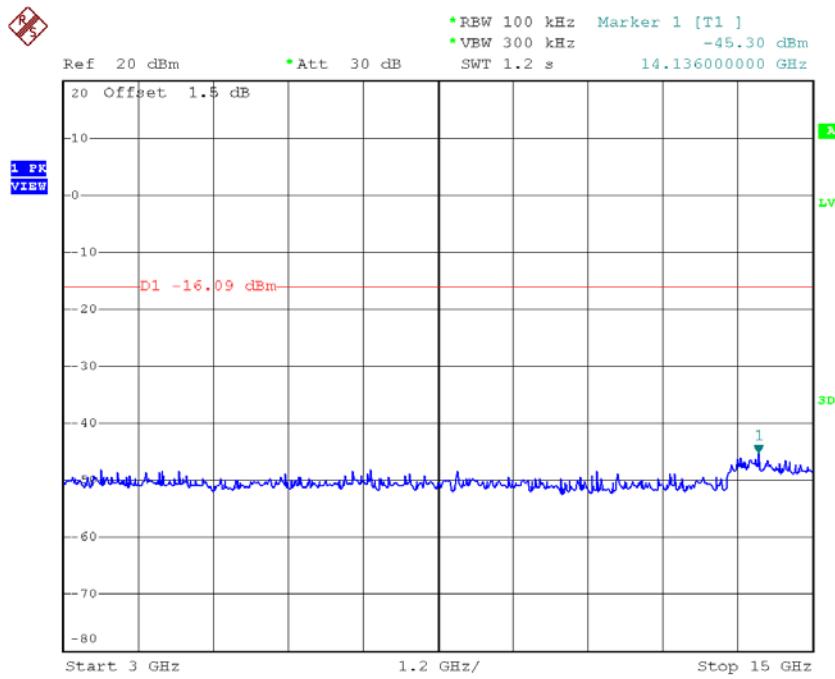


Date: 24.APR.2018 17:55:52

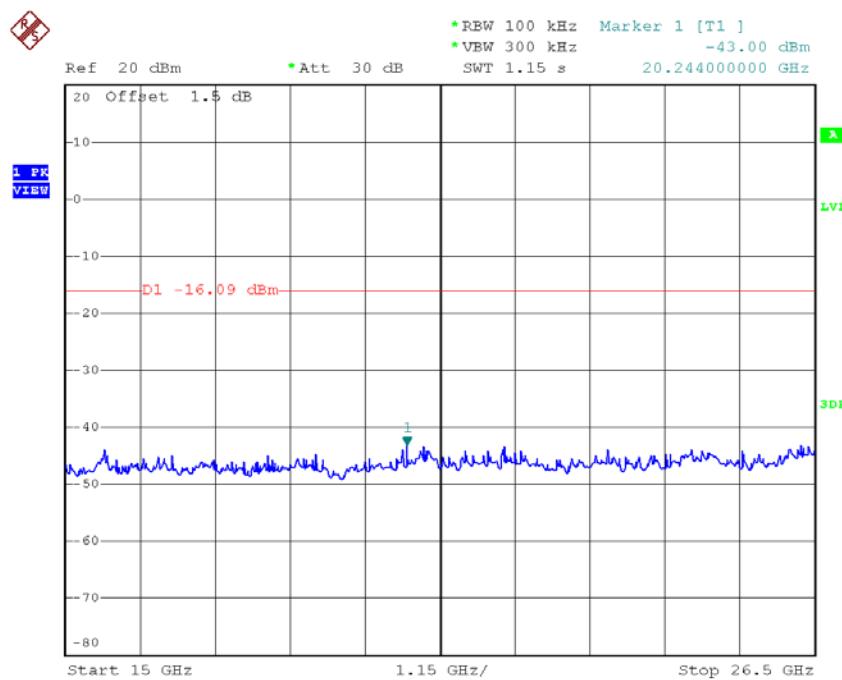
TX G mode CH11 (10 Harmonic of the frequency)



Date: 24.APR.2018 17:57:00



Date: 24.APR.2018 17:57:08



Date: 24.APR.2018 17:57:17