

FCC Radio Test Report

FCC ID: TE7EAP225WALL

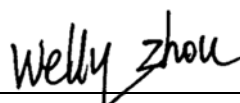
This report concerns (check one): ☒ Original Grant ☐ Class I Change ☐ Class II Change

Project No. : 1805C099
Equipment : AC1200 Wireless MU-MIMO Wall Plate Access Point
Test Model : EAP225-Wall
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4)
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Date of Receipt : May 29, 2018
Date of Test : Jun. 01, 2018 ~ Jul. 31, 2018
Issued Date : Sep. 27, 2018
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BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements in all the possible configurations as representative of its intended use.

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.	Version.	Description	Issued Date
BTL-FCCP-1-1805C099	REV.01	Original Issue.	Aug. 10, 2018
BTL-FCCP-1-1805C099	REV.02	Changed the brand name.	Sep. 06, 2018
BTL-FCCP-1-1805C099	REV.03	Updated the datas of bandwidth.	Sep. 27, 2018

1. CERTIFICATION

Equipment : AC1200 Wireless MU-MIMO Wall Plate Access Point
Brand Name : Omada
Test Model : EAP225-Wall
Series Model : N/A
Applicant : TP-Link Technologies Co., Ltd.
Manufacturer : TP-Link Technologies Co., Ltd.
Address : Building 24 (floors 1,3,4,5) and 28 (floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Date of Test : Jun. 01, 2018 ~ Jul. 31, 2018
Test Sample : Engineering Sample No.: D180504296
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-1-1805C099) 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).

Test results included in this report is only for the WLAN 2.4GHz part.

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)	Bandwidth	PASS	
15.247(b)(3)	AVG 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

BTL's 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	AC1200 Wireless MU-MIMO Wall Plate Access Point	
Brand Name	Omada	
Test Model	EAP225-Wall	
Series Model	N/A	
Model Difference	N/A	
Software Version	1.0.0	
Hardware Version	1.0	
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
	AVG Output Power (Max.)	802.11b: 21.68 dBm 802.11g: 21.72 dBm 802.11n(20MHz): 21.92 dBm 802.11n(40MHz): 20.70 dBm
Power Source	DC voltage supplied from PoE Switch.	
Power Rating	DC 42.5~57V 0.6A	

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	PIFA	N/A	2
2	N/A	N/A	PIFA	N/A	2

Note:

This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain = GANT+10log(N)dBi, that is Directional gain=2+10log(2)dBi=5.01.

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/11
Mode 2	TX G MODE CHANNEL 01/06/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/09
Mode 5	TX MODE
Mode 6	TX B MODE CHANNEL 01/02/06/10/11
Mode 7	TX G MODE CHANNEL 01/02/06/10/11
Mode 8	TX N-20MHZ MODE CHANNEL 01/02/06/10/11
Mode 9	TX N-40MHZ MODE CHANNEL 03/04/06/08/09

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

For Band Edge Test	
Final Test Mode	Description
Mode 6	TX B MODE CHANNEL 01//02/06/10/11
Mode 7	TX G MODE CHANNEL 01//02/06/10/11
Mode 8	TX N-20MHZ MODE CHANNEL 01//02/06/10/11
Mode 9	TX N-40MHZ MODE CHANNEL 03/04/06/08/09

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 AVG 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:

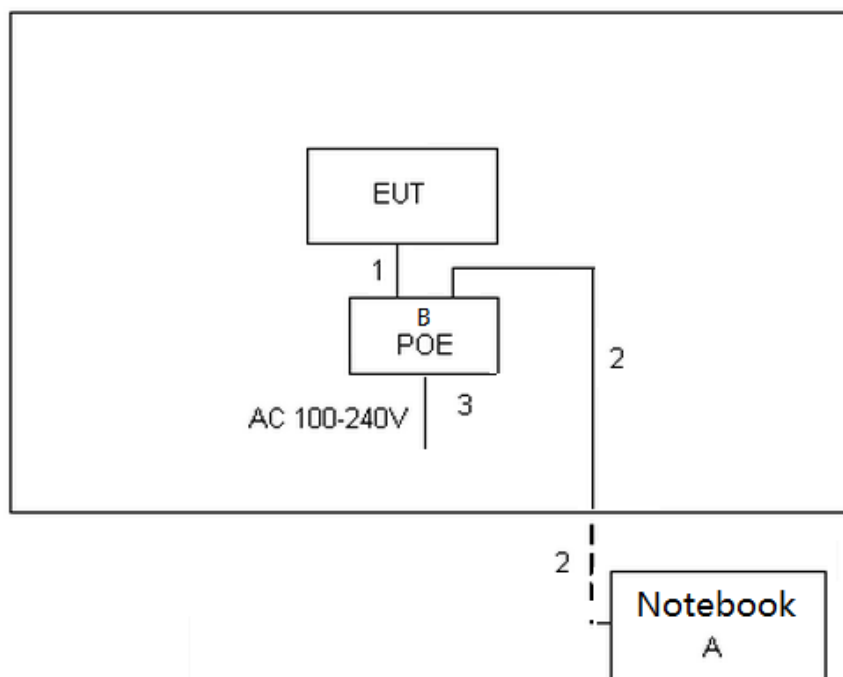
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
802.11g mode: OFDM (6Mbps)
802.11n HT20 mode : BPSK (13Mbps)
802.11n HT40 mode : BPSK (27Mbps)
For radiated emission tests, the highest output powers were set for final test.
- (3) For 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%.
- (5) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on Z-plane. Therefore only the test data of this Z-plane was used for radiated emission measurement test.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. 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	cart		
Frequency (MHz)	2412	2437	2462
802.11b	16.5	17	17
802.11g	16	18	18
802.11n (20MHz)	15.5	18	17
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	12	17	14

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
B	POE	N/A	N/A	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	RJ45 Cable
2	NO	NO	10m	RJ45 Cable
3	NO	NO	1.5m	AC 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 -0.50	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

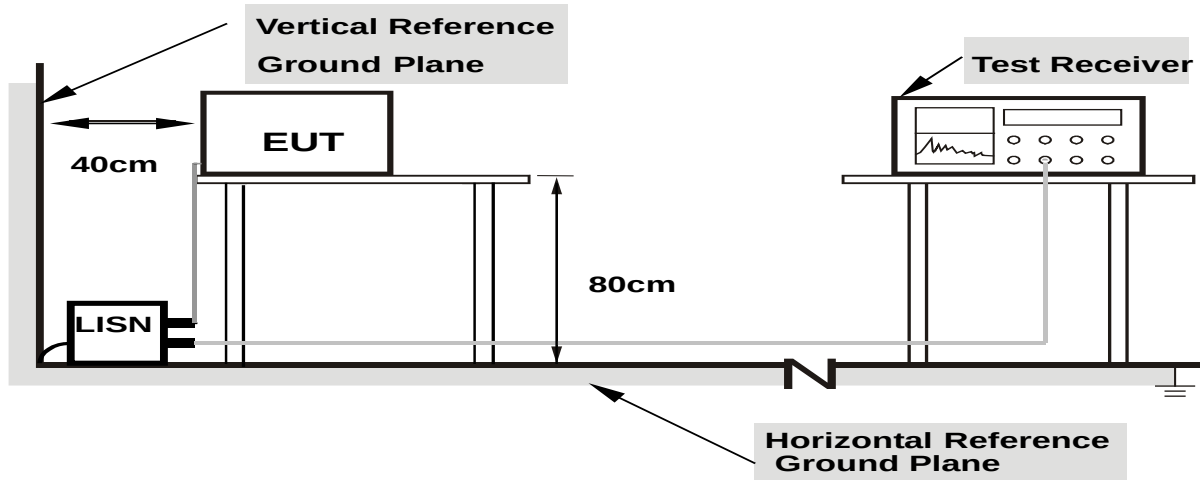
4.1.2 TEST PROCEDURE

- 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 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

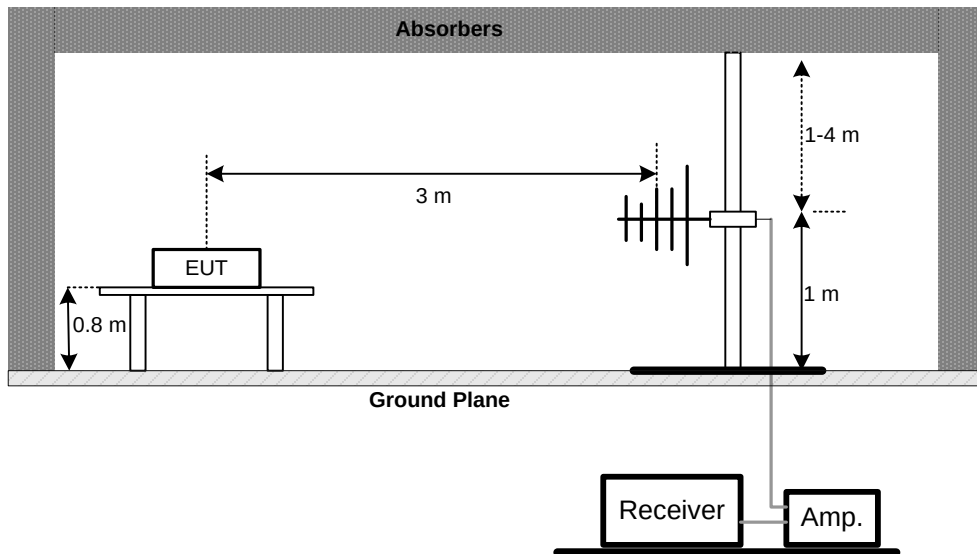
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

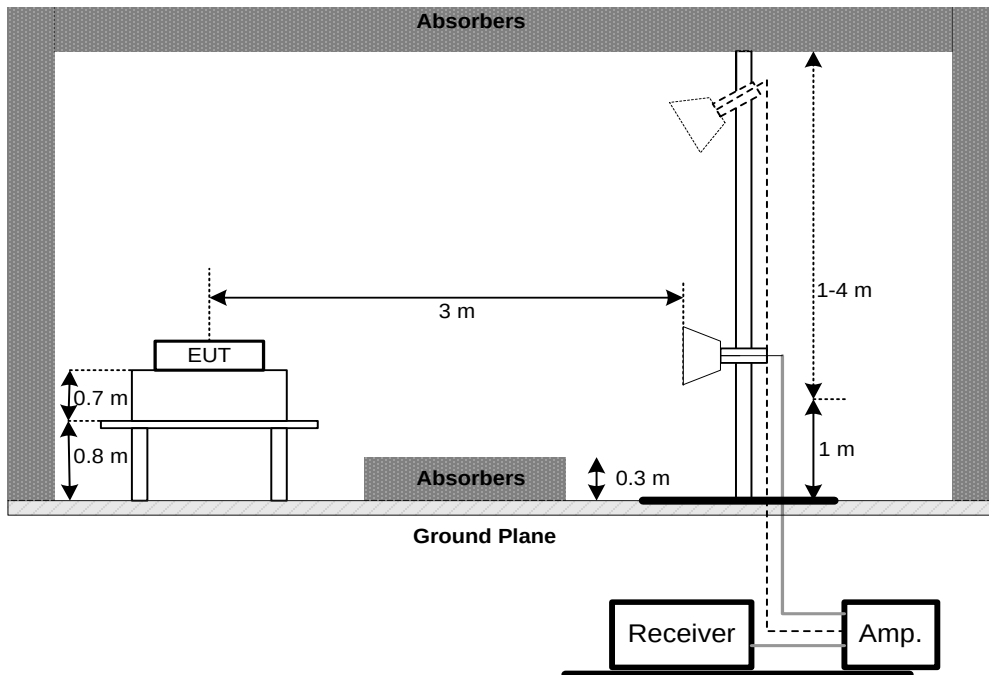
No deviation

4.2.4 TEST SETUP

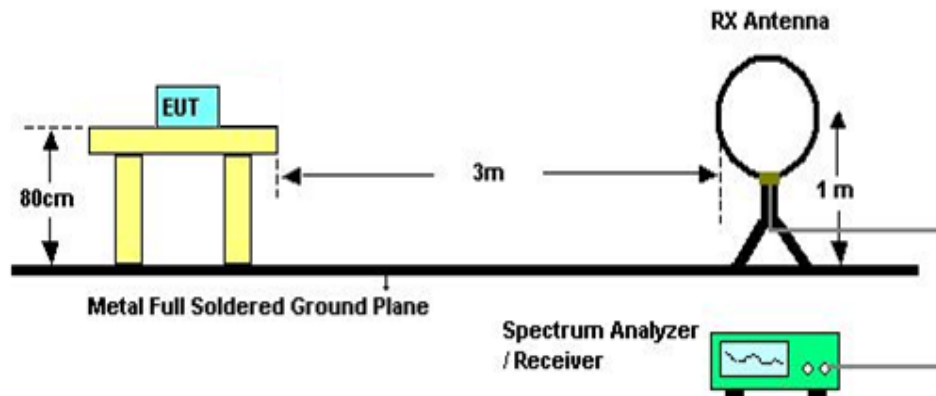
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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 (dBuV) + 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)	6dB Bandwidth	2400-2483.5	PASS
	99% OBW		

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,
- The bandwidth was performed in accordance with method 8.1 of FCC KDB 558074 D01 v04 DTS Meas Guidance and 6.9.2 of ANSI C63.10-2013.
- For 6dB Bandwidth Spectrum setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.
For 99% OBW Spectrum Setting: For B,G.N20 mode: RBW= 300KHz, VBW=1MHz,For N40 mode: RBW= 1MHz, VBW=3MHz 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 AVG 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 AVG 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 AVG output power was performed in accordance with method 9.2.3.2 of FCC KDB 558074 D01 v04 DTS Meas Guidance.

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 intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

7.1.1 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 = 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 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

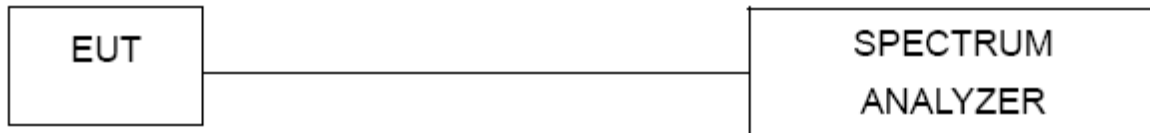
8.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- The power spectral density was performed in accordance with method 10.2 of FCC KDB 558074 D01 v04 DTS Meas Guidance.
- 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 Measurement					
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 Measurement - 9KHZ TO 30MHZ					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Loop Antenna	EM	EM-6876-1	230	Feb. 07, 2019
2	Cable	N/A	RG 213/U	C-102	Jun. 01, 2019
3	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019

Radiated Emission Measurement - 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-1 GHz)(8m+5m)	N/A	May 25, 2019
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 Measurement - 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. 30, 2019
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	N/A	CA500-SMSM-12M (1-26.5GHz)	N/A	Sep. 29, 2018
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Bandwidth

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

AVG Output Power

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 11, 2019
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 11, 2019

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.

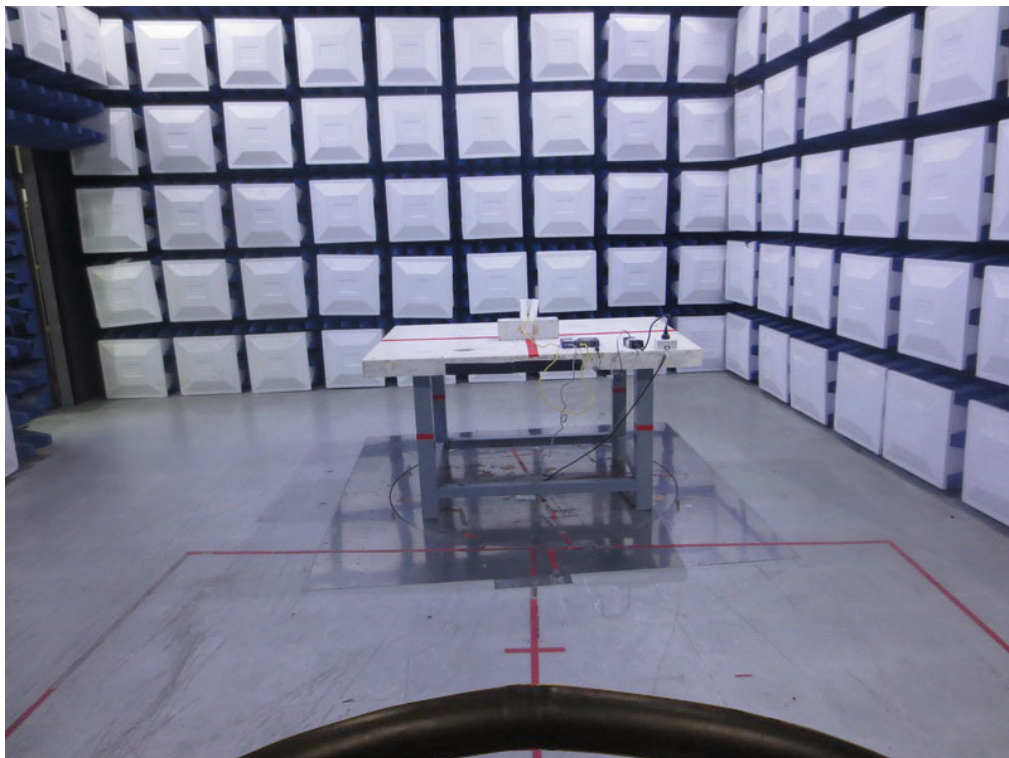
10. EUT TEST PHOTO

Conducted Measurement Photos



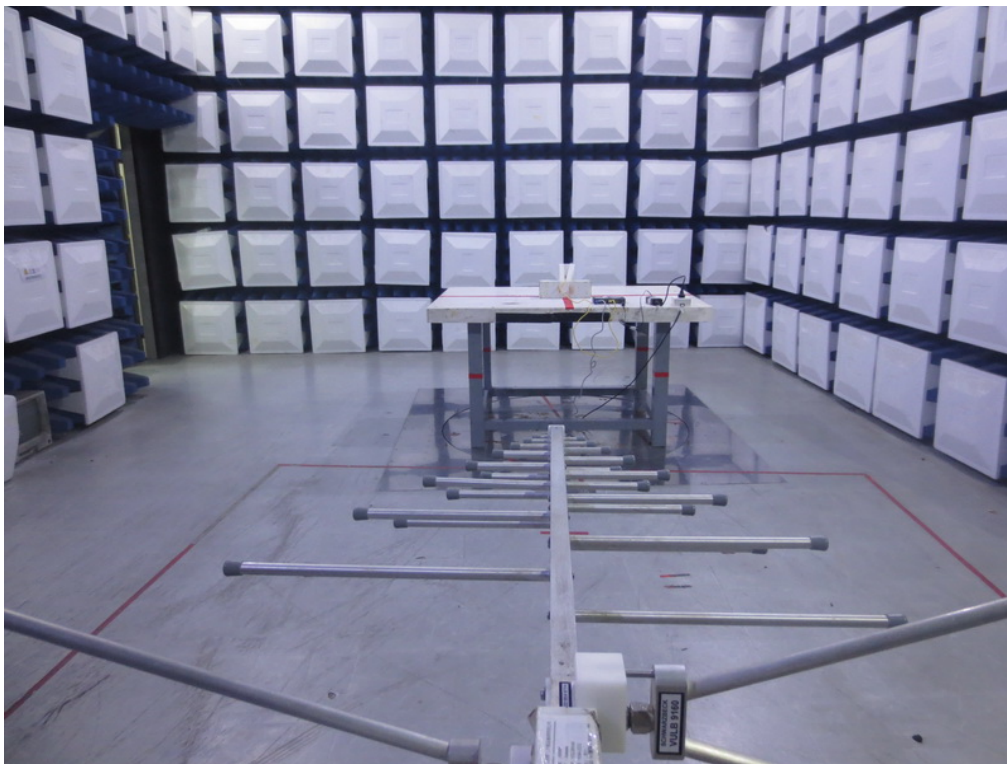
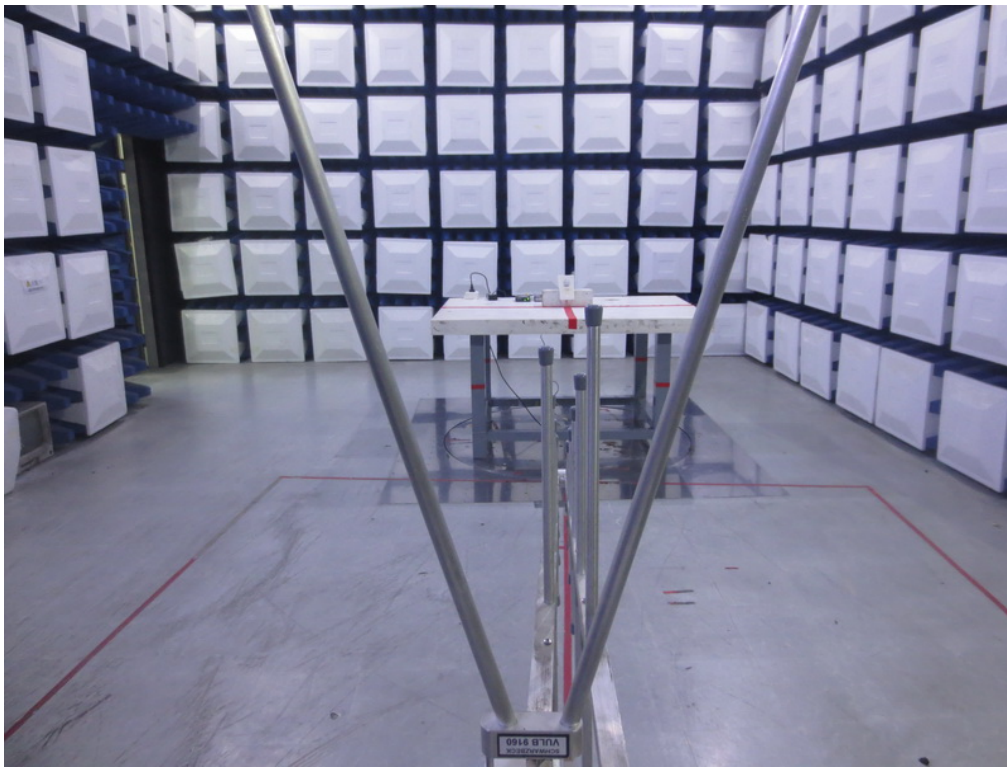
Radiated Measurement Photos

9KHz to 30MHz



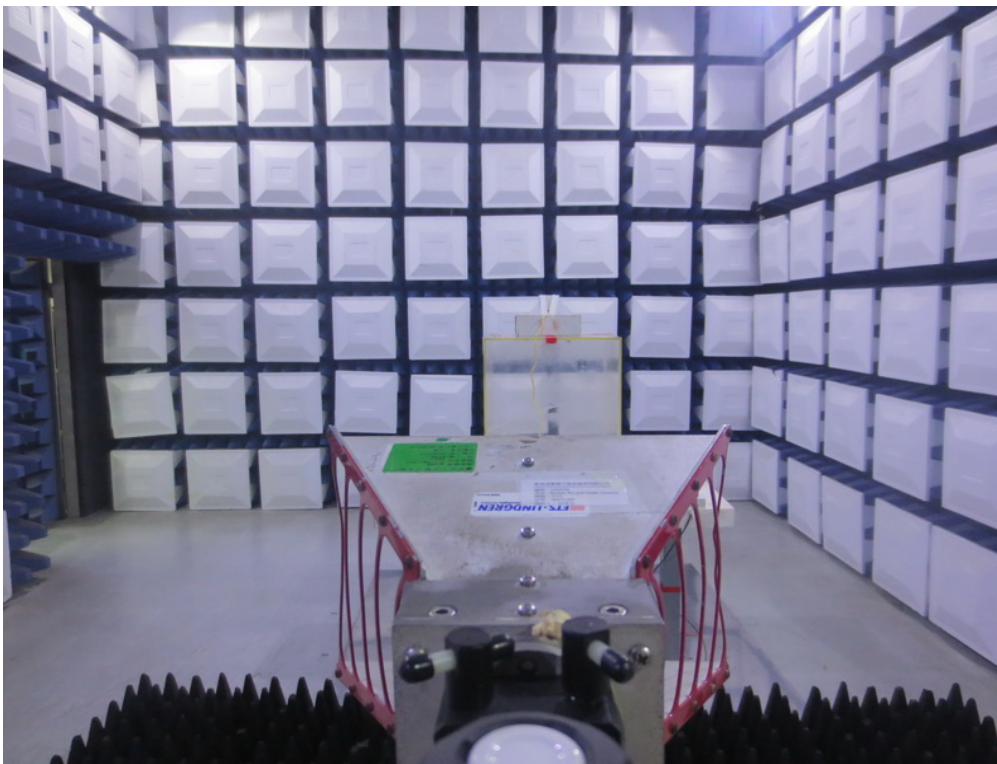
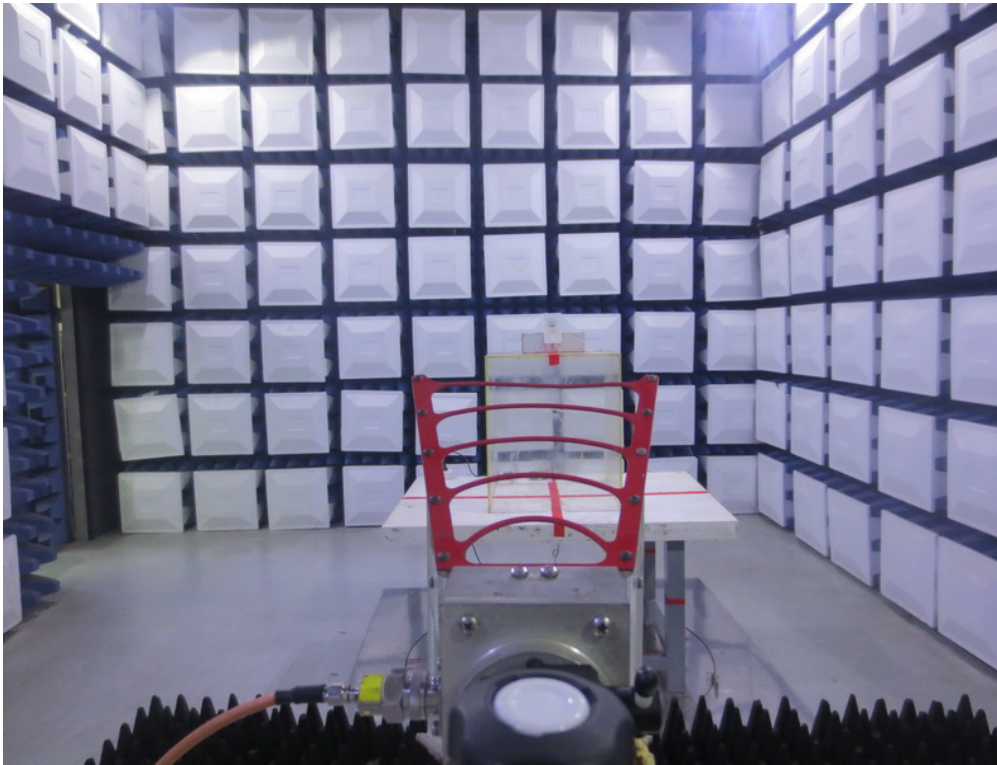
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

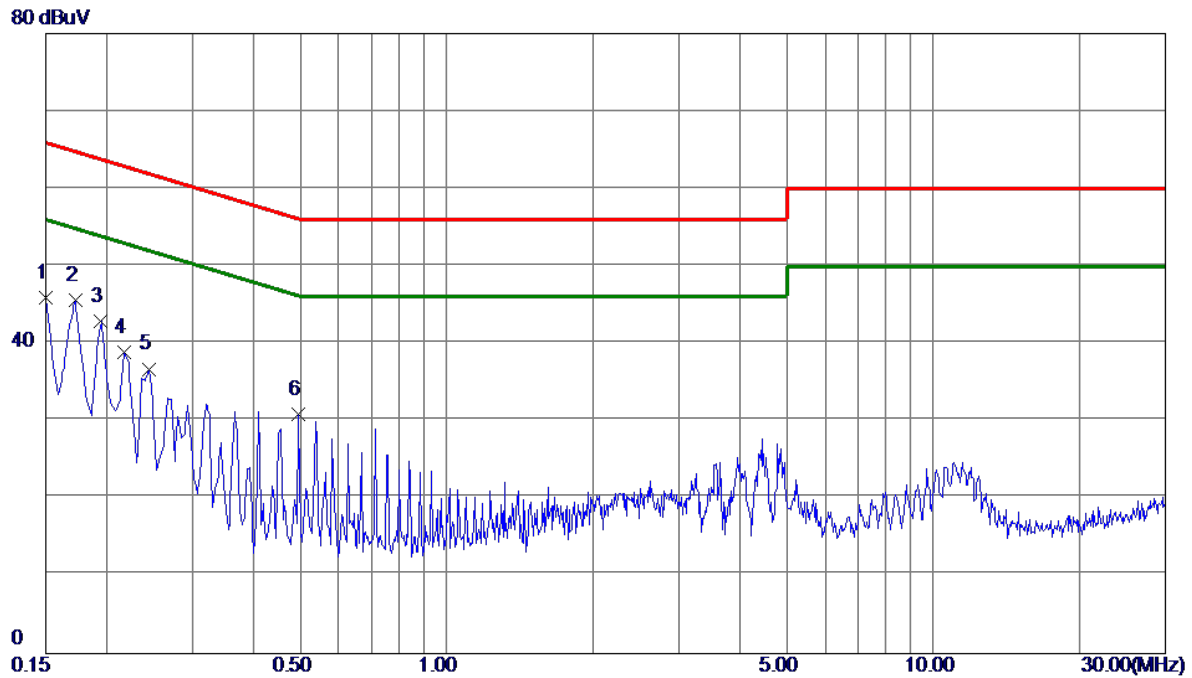
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode : TX MODE

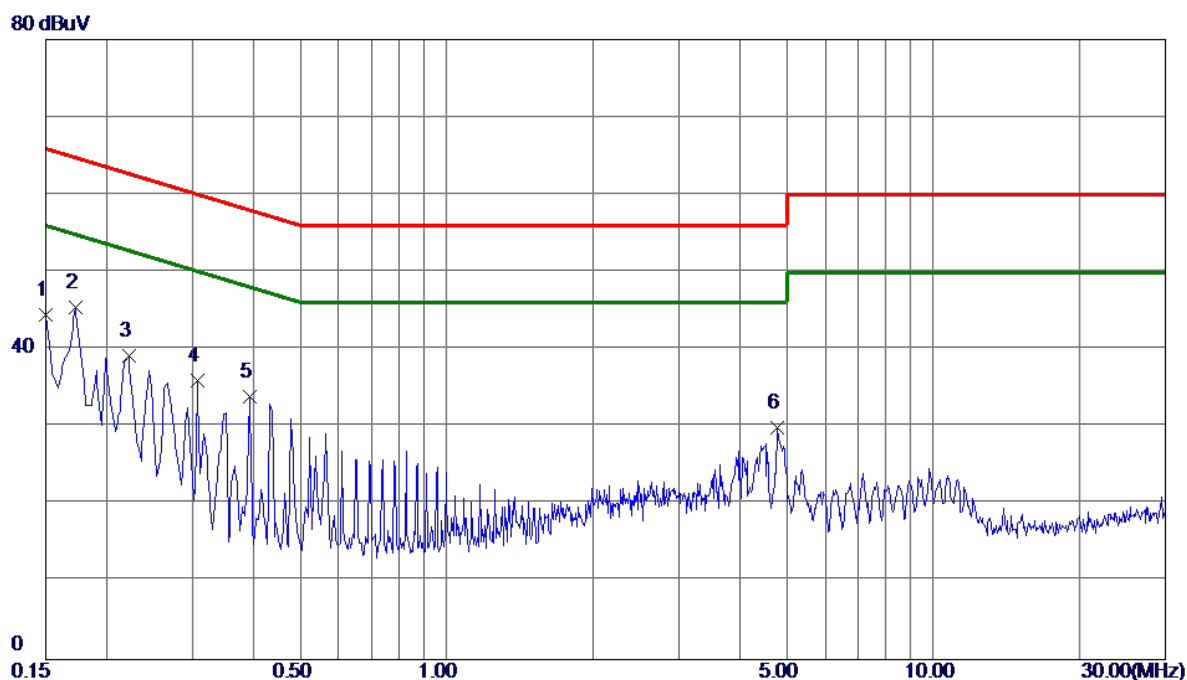
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	36.17	9.82	45.99	66.00	-20.01	Peak	
2 *	0.1725	35.80	9.82	45.62	64.84	-19.22	Peak	
3	0.1949	33.13	9.82	42.95	63.83	-20.88	Peak	
4	0.2175	29.12	9.82	38.94	62.91	-23.97	Peak	
5	0.2445	26.90	9.82	36.72	61.94	-25.22	Peak	
6	0.4965	21.05	9.79	30.84	56.06	-25.22	Peak	

Test Mode : TX MODE

Neutral

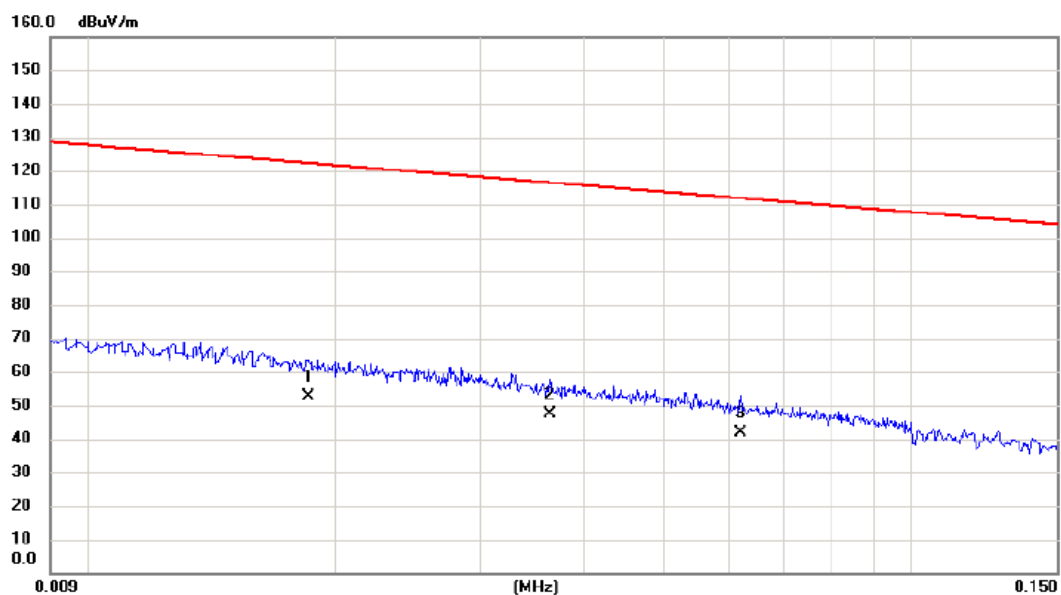


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1500	34.54	9.91	44.45	66.00	-21.55	Peak	
2 *	0.1725	35.54	9.91	45.45	64.84	-19.39	Peak	
3	0.2220	29.36	9.91	39.27	62.74	-23.47	Peak	
4	0.3075	26.05	9.93	35.98	60.04	-24.06	Peak	
5	0.3930	23.95	9.95	33.90	58.00	-24.10	Peak	
6	4.7940	19.47	10.38	29.85	56.00	-26.15	Peak	

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

Test Mode: TX MODE

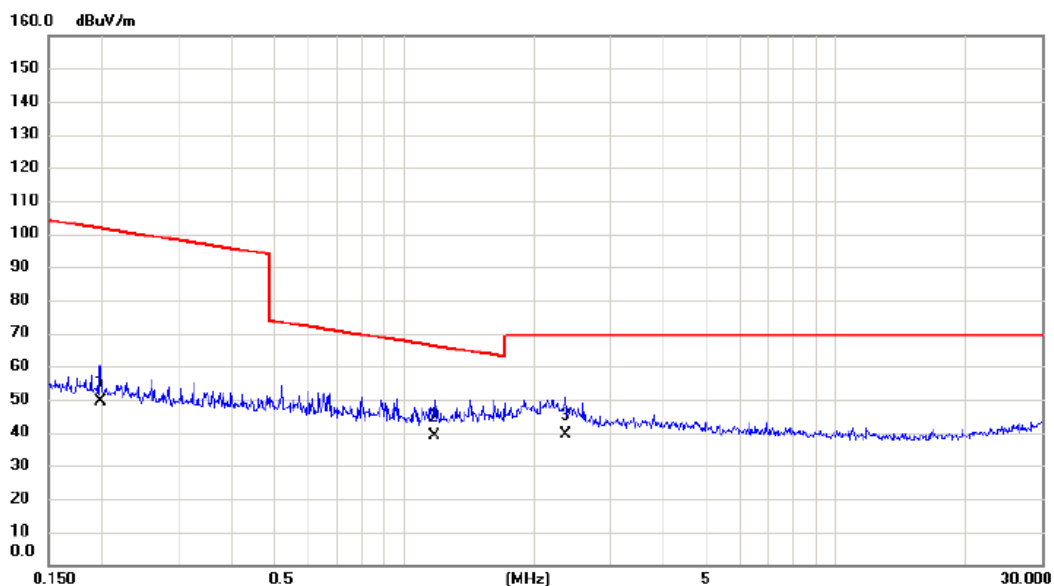
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0185	32.50	20.23	52.73	122.26	-69.53	AVG	
2	*	0.0364	27.80	19.75	47.55	116.38	-68.83	AVG	
3		0.0620	22.60	19.29	41.89	111.76	-69.87	AVG	

Test Mode: TX MODE

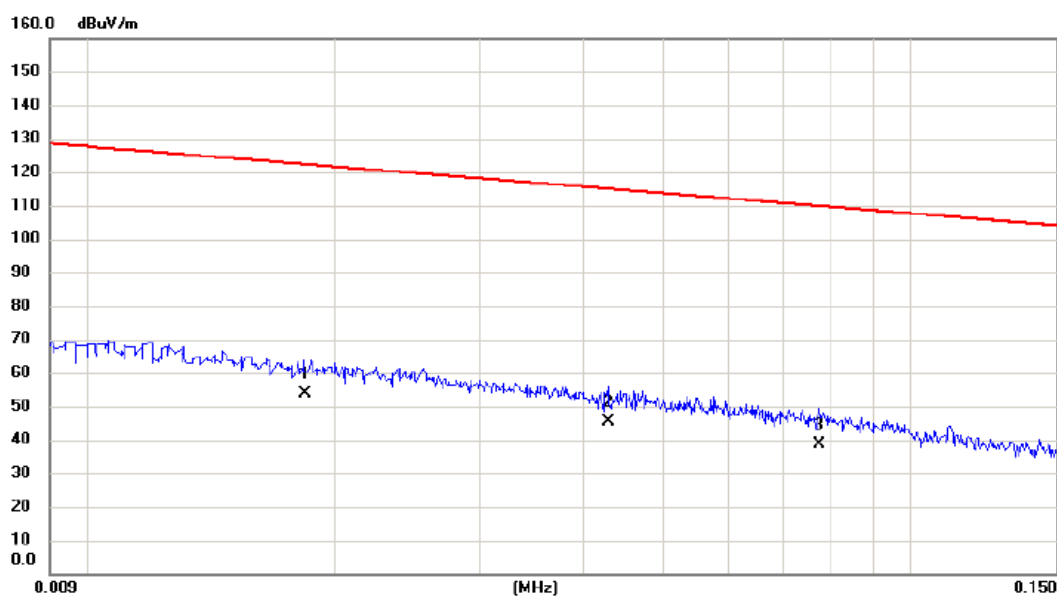
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.1986	32.40	17.15	49.55	101.65	-52.10	AVG	
2	*	1.1720	22.30	16.68	38.98	66.23	-27.25	QP	
3		2.3710	22.50	16.90	39.40	69.54	-30.14	QP	

Test Mode: TX MODE

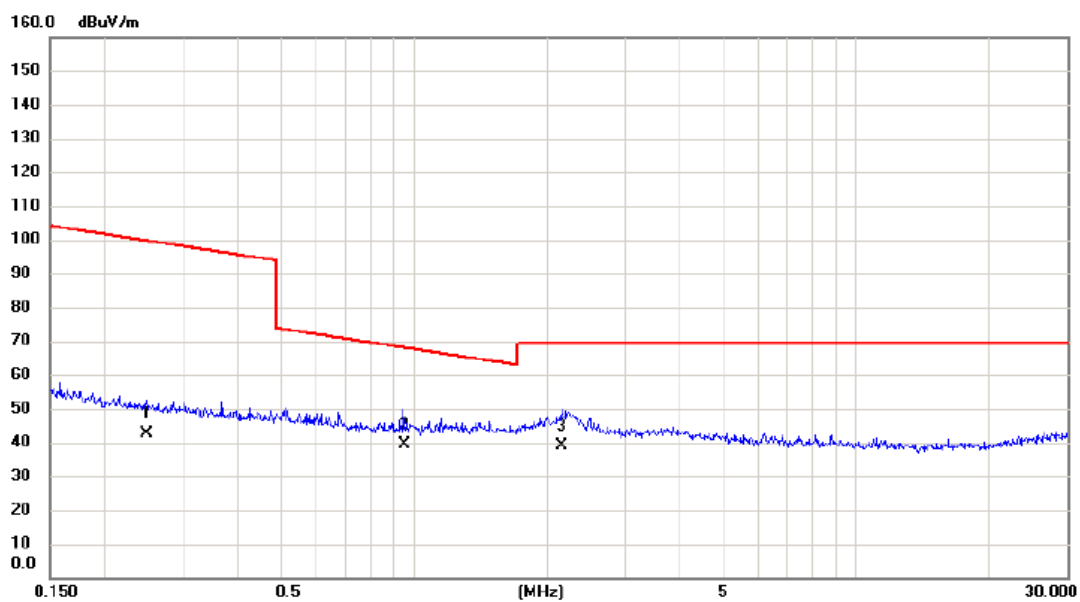
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	0.0184	33.50	20.24	53.74	122.31	-68.57	AVG	
2		0.0430	25.80	19.64	45.44	114.94	-69.50	AVG	
3		0.0774	19.70	18.97	38.67	109.83	-71.16	AVG	

Test Mode: TX MODE

Ant 90°



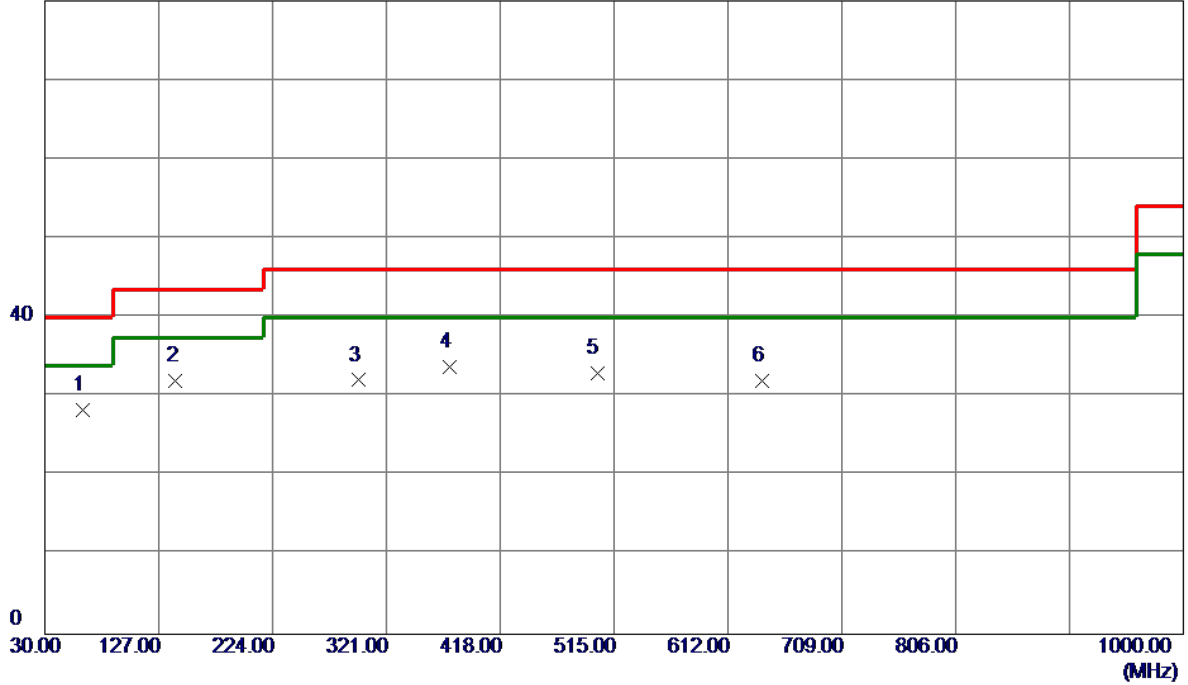
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.2481	25.70	17.06	42.76	99.71	-56.95	AVG	
2	*	0.9481	22.60	16.65	39.25	68.07	-28.82	QP	
3		2.1552	21.80	17.02	38.82	69.54	-30.72	QP	

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

Test Mode: TX B MODE CHANNEL 01

Vertical

80 dBuV/m

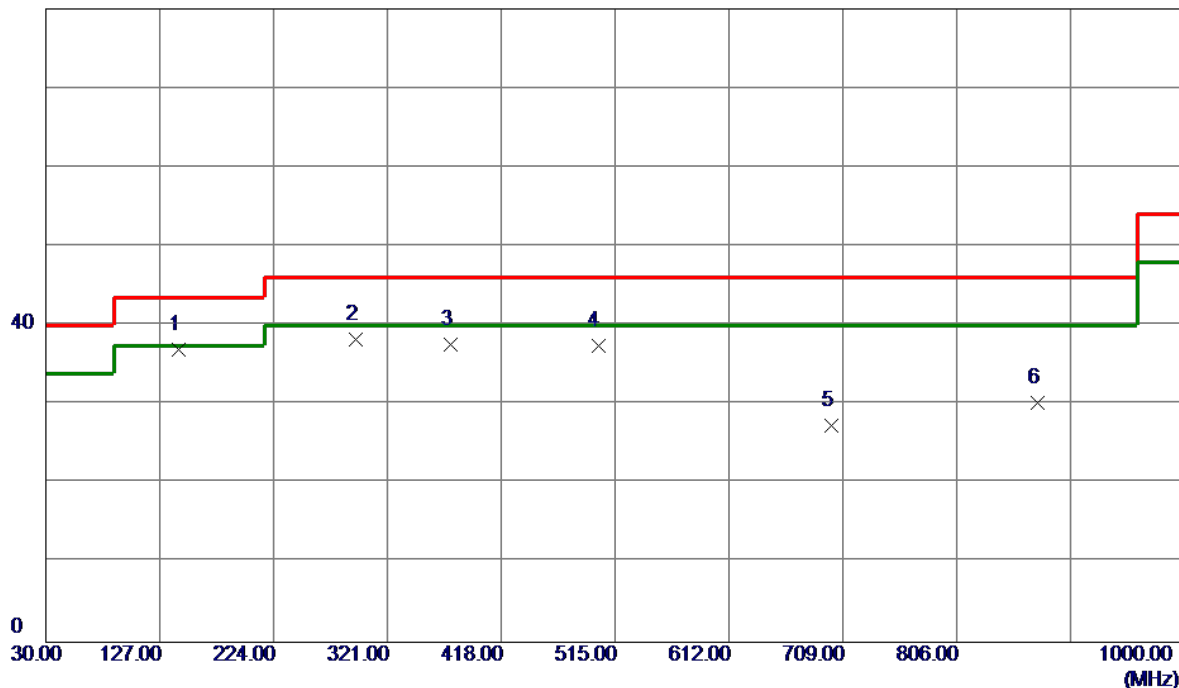


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	62.0100	44.63	-16.24	28.39	40.00	-11.61	Peak	
2 *	141.5500	44.31	-12.31	32.00	43.50	-11.50	Peak	
3	297.7200	43.02	-10.94	32.08	46.00	-13.92	Peak	
4	375.3200	44.40	-10.71	33.69	46.00	-12.31	Peak	
5	500.4500	42.02	-9.10	32.92	46.00	-13.08	Peak	
6	641.1000	38.07	-6.08	31.99	46.00	-14.01	Peak	

Test Mode: TX B MODE CHANNEL 01

Horizontal

80 dBuV/m

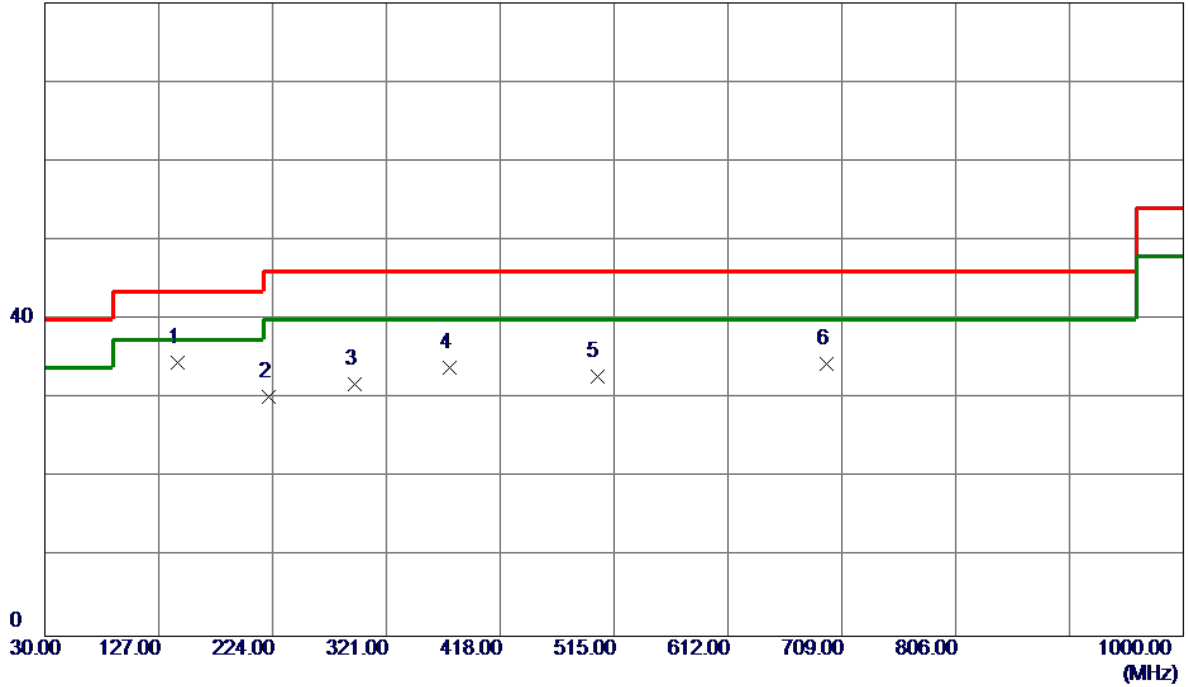


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	143.4900	49.14	-12.19	36.95	43.50	-6.55	Peak	
2	293.8400	49.39	-11.16	38.23	46.00	-7.77	Peak	
3	375.3200	48.35	-10.71	37.64	46.00	-8.36	Peak	
4	500.4500	46.54	-9.10	37.44	46.00	-8.56	Peak	
5	699.3000	30.97	-3.54	27.43	46.00	-18.57	Peak	
6	874.8700	32.29	-2.08	30.21	46.00	-15.79	Peak	

Test Mode: TX B MODE CHANNEL 06

Vertical

80 dBuV/m

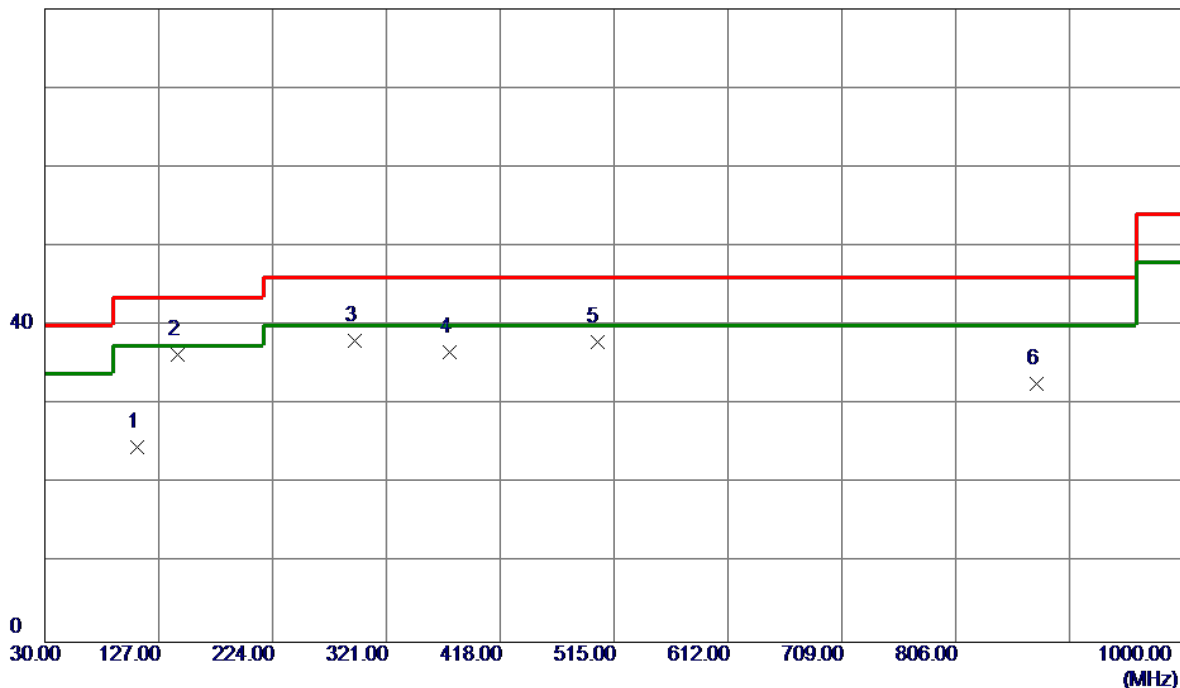


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	143.4900	46.80	-12.19	34.61	43.50	-8.89	Peak	
2	221.0900	45.53	-15.23	30.30	46.00	-15.70	Peak	
3	293.8400	42.96	-11.16	31.80	46.00	-14.20	Peak	
4	375.3200	44.60	-10.71	33.89	46.00	-12.11	Peak	
5	500.4500	41.93	-9.10	32.83	46.00	-13.17	Peak	
6	696.3900	38.04	-3.68	34.36	46.00	-11.64	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

80 dBuV/m

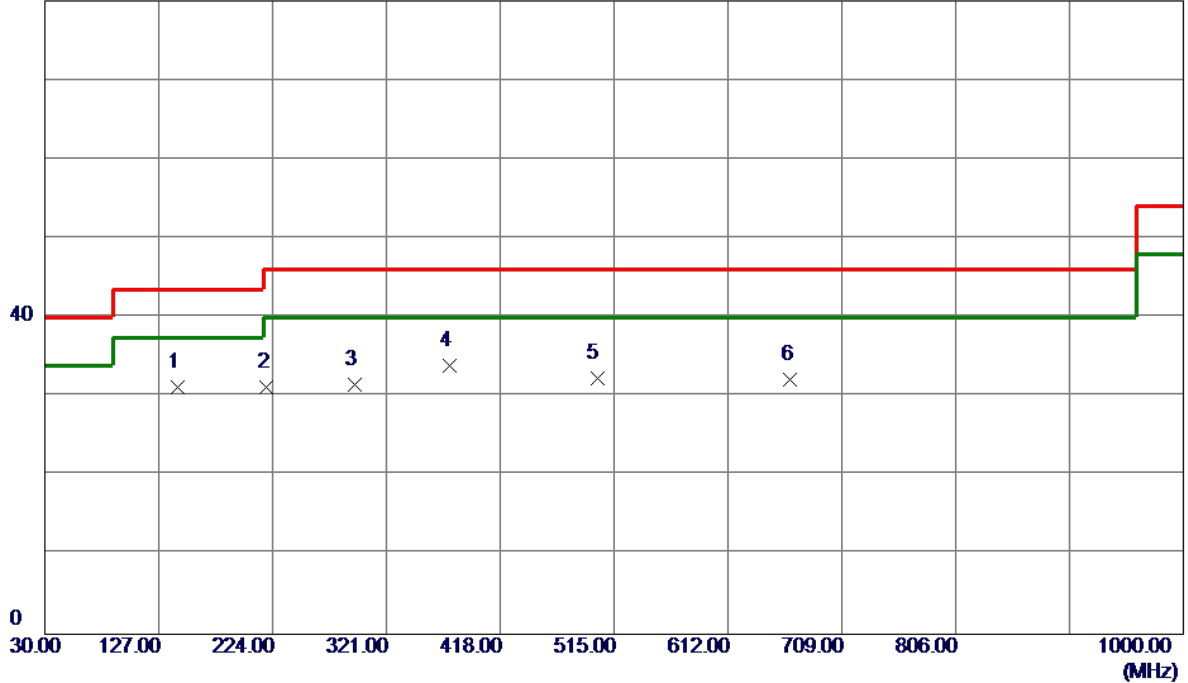


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	108.5700	41.44	-16.85	24.59	43.50	-18.91	Peak	
2 *	143.4900	48.47	-12.19	36.28	43.50	-7.22	Peak	
3	293.8400	49.24	-11.16	38.08	46.00	-7.92	Peak	
4	375.3200	47.38	-10.71	36.67	46.00	-9.33	Peak	
5	500.4500	46.98	-9.10	37.88	46.00	-8.12	Peak	
6	874.8700	34.77	-2.08	32.69	46.00	-13.31	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

80 dBuV/m

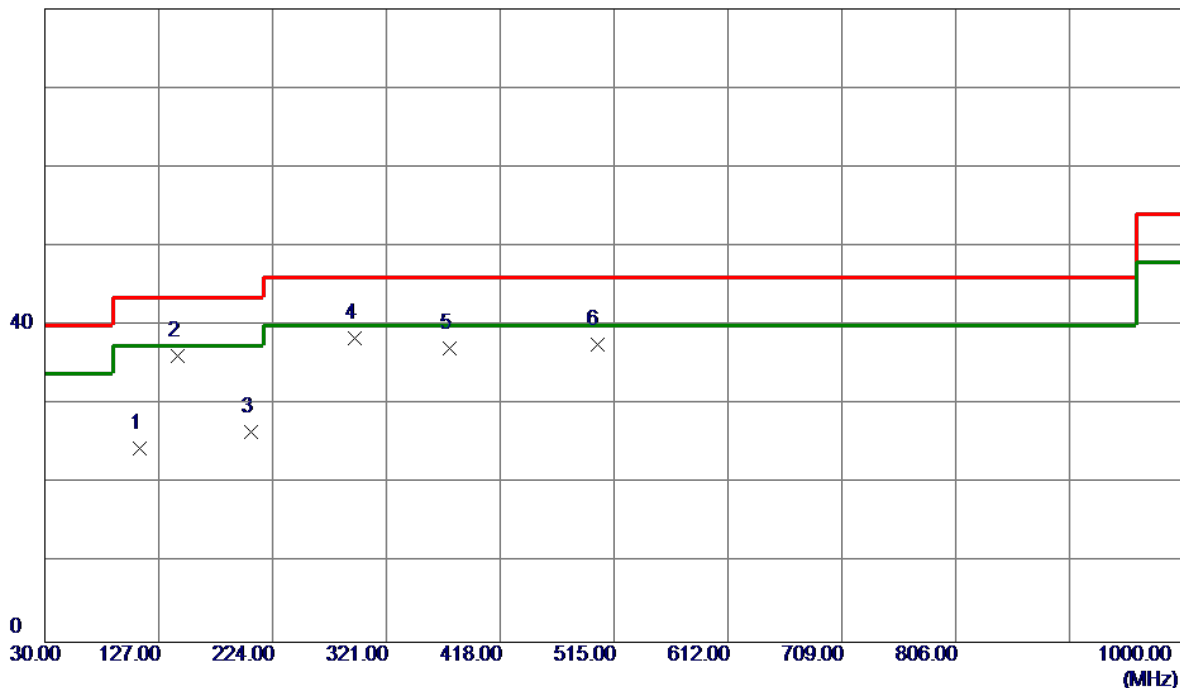


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	143.4900	43.40	-12.19	31.21	43.50	-12.29	Peak	
2	219.1500	46.41	-15.25	31.16	46.00	-14.84	Peak	
3	293.8400	42.69	-11.16	31.53	46.00	-14.47	Peak	
4 *	375.3200	44.65	-10.71	33.94	46.00	-12.06	Peak	
5	500.4500	41.39	-9.10	32.29	46.00	-13.71	Peak	
6	665.3500	37.33	-5.16	32.17	46.00	-13.83	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

80 dBuV/m



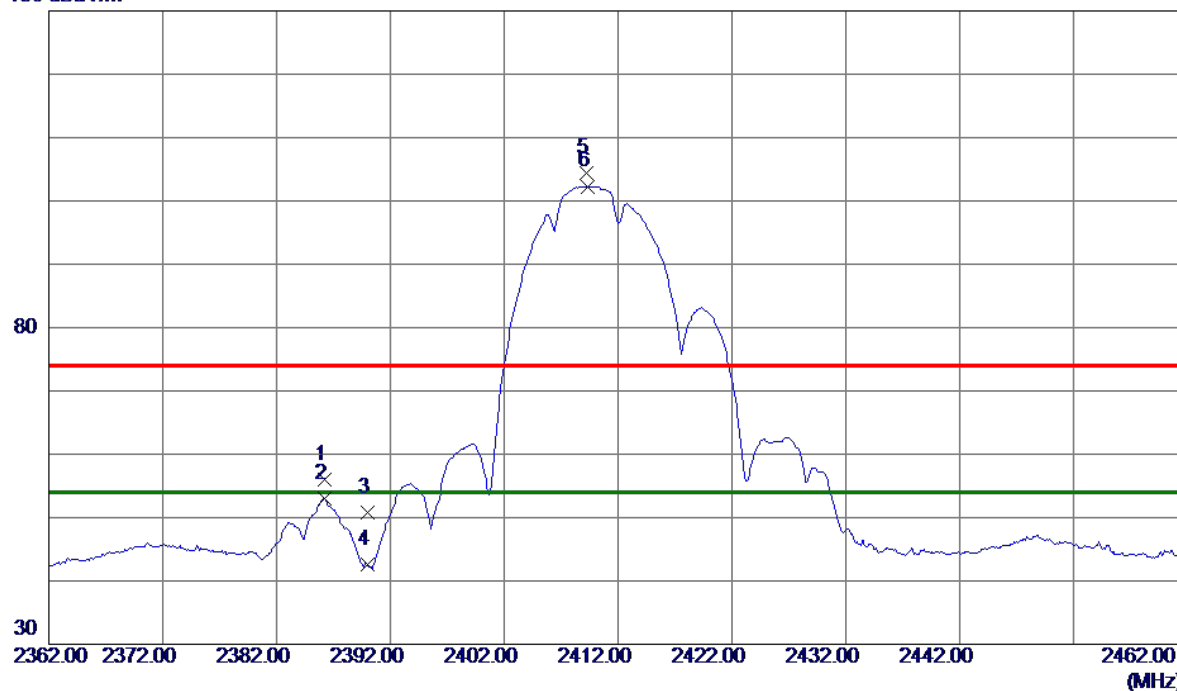
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	110.5100	40.97	-16.48	24.49	43.50	-19.01	Peak	
2 *	143.4900	48.40	-12.19	36.21	43.50	-7.29	Peak	
3	205.5700	42.16	-15.58	26.58	43.50	-16.92	Peak	
4	293.8400	49.51	-11.16	38.35	46.00	-7.65	Peak	
5	375.3200	47.79	-10.71	37.08	46.00	-8.92	Peak	
6	500.4500	46.72	-9.10	37.62	46.00	-8.38	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

130 dBuV/m

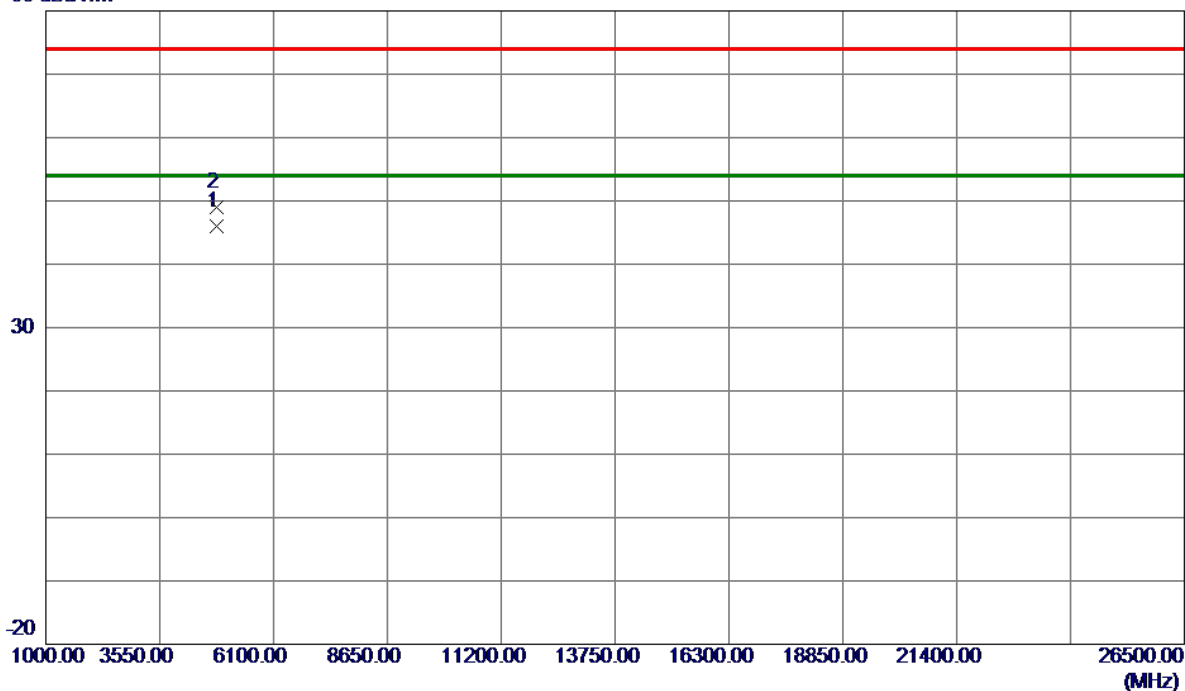


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.2000	47.03	9.01	56.04	74.00	-17.96	Peak	
2	2386.2000	44.01	9.01	53.02	54.00	-0.98	AVG	
3	2390.0000	41.81	9.00	50.81	74.00	-23.19	Peak	
4	2390.0000	33.66	9.00	42.66	54.00	-11.34	AVG	
5	2409.2000	95.31	9.00	104.31	74.00	30.31	Peak	No Limit
6 *	2409.3000	93.30	9.00	102.30	54.00	48.30	AVG	No Limit

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

Vertical

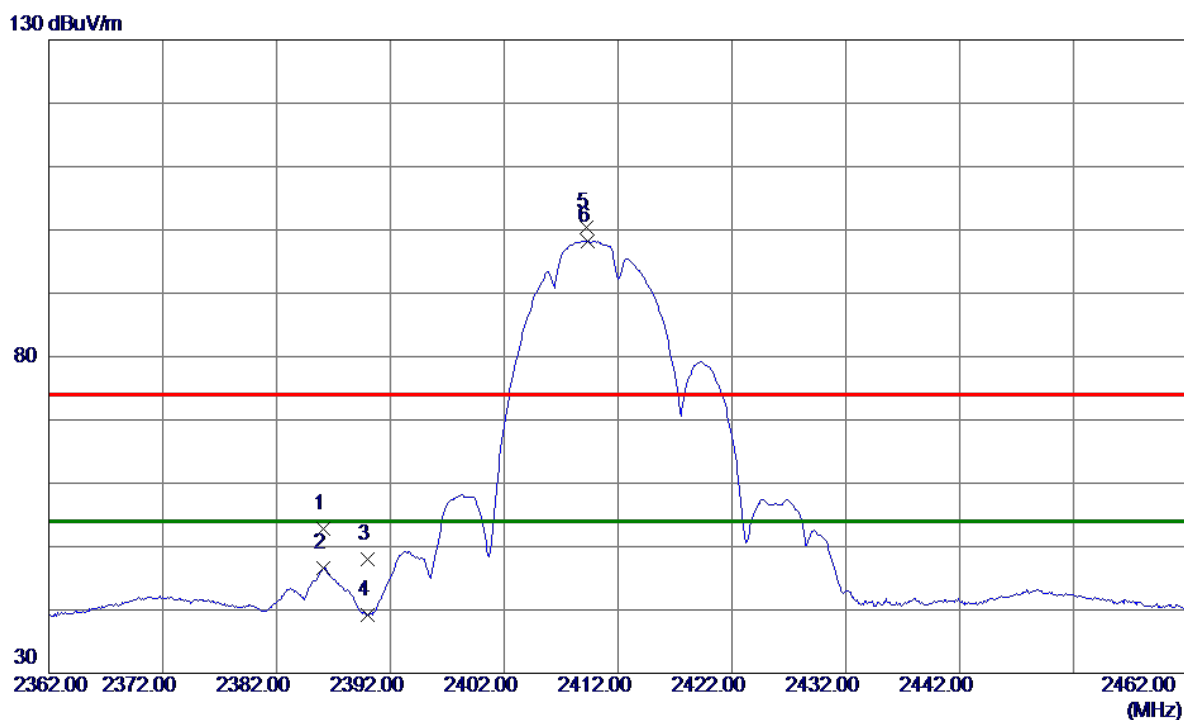
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9550	40.30	5.78	46.08	54.00	-7.92	AVG	
2	4823.9700	43.31	5.78	49.09	74.00	-24.91	Peak	

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

Horizontal

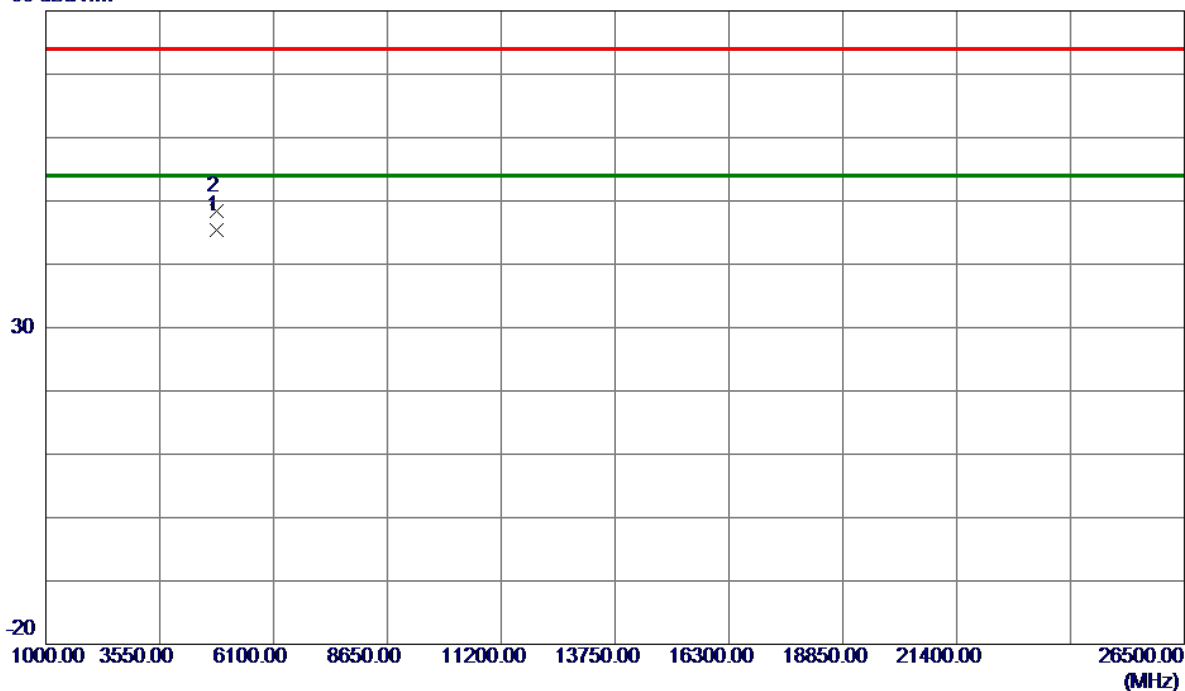


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2386.1000	43.78	9.01	52.79	74.00	-21.21	Peak	
2	2386.1000	37.62	9.01	46.63	54.00	-7.37	AVG	
3	2390.0000	39.01	9.00	48.01	74.00	-25.99	Peak	
4	2390.0000	30.29	9.00	39.29	54.00	-14.71	AVG	
5	2409.2000	91.45	9.00	100.45	74.00	26.45	Peak	No Limit
6 *	2409.3000	89.20	9.00	98.20	54.00	44.20	AVG	No Limit

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

Horizontal

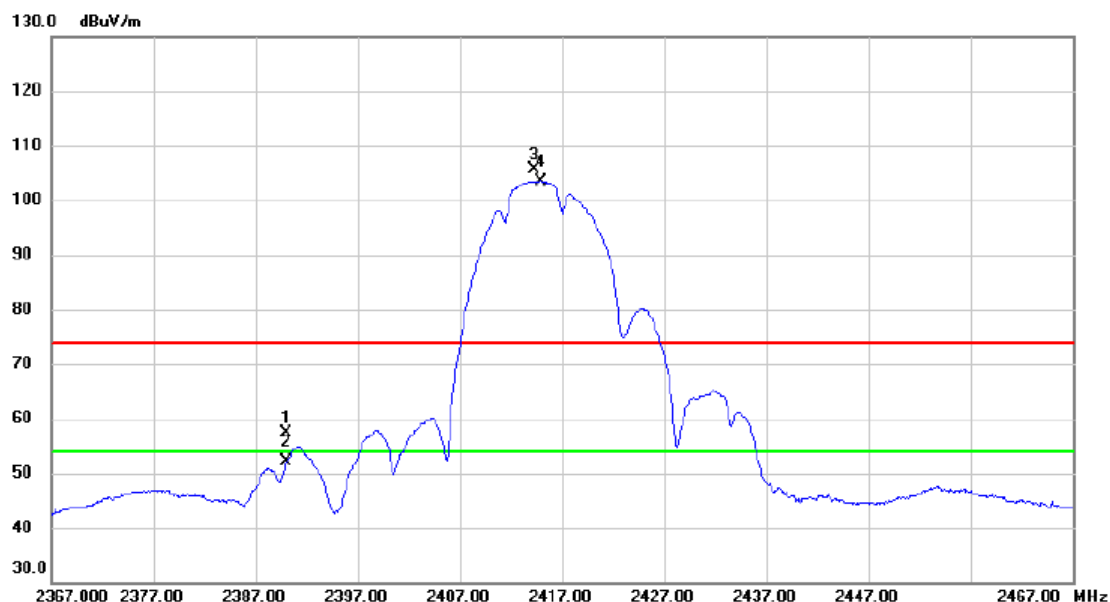
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9900	39.53	5.78	45.31	54.00	-8.69	AVG	
2	4824.1650	42.57	5.78	48.35	74.00	-25.65	Peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2417MHz

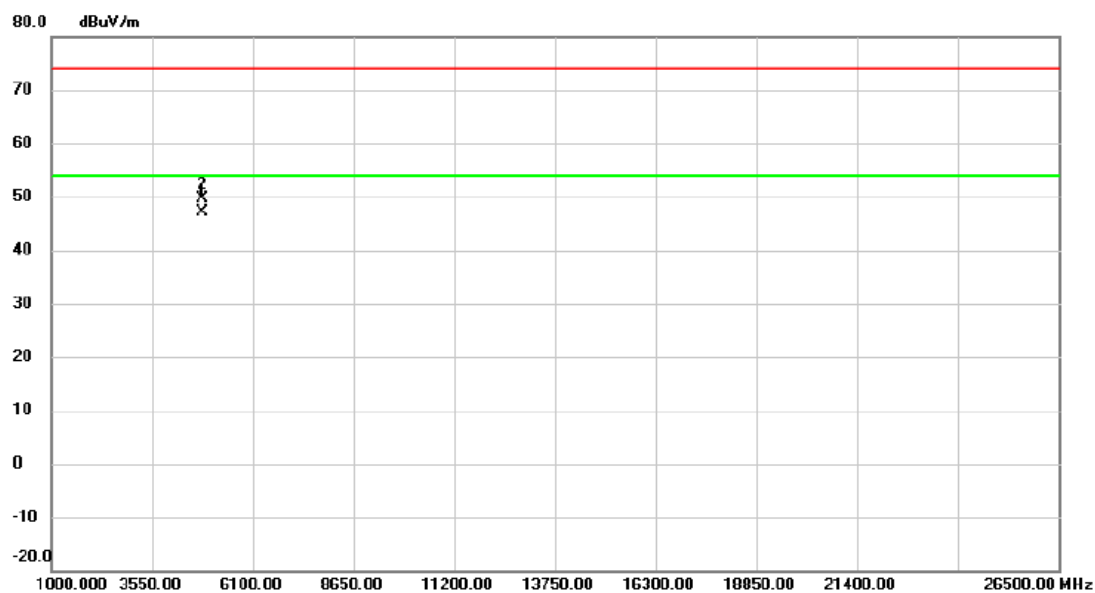
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	48.33	9.00	57.33	74.00	-16.67	peak	
2		2390.000	43.07	9.00	52.07	54.00	-1.93	AVG	
3	X	2414.300	96.72	9.00	105.72	74.00	31.72	peak	No Limit
4	*	2414.900	94.50	9.00	103.50	54.00	49.50	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2417MHz

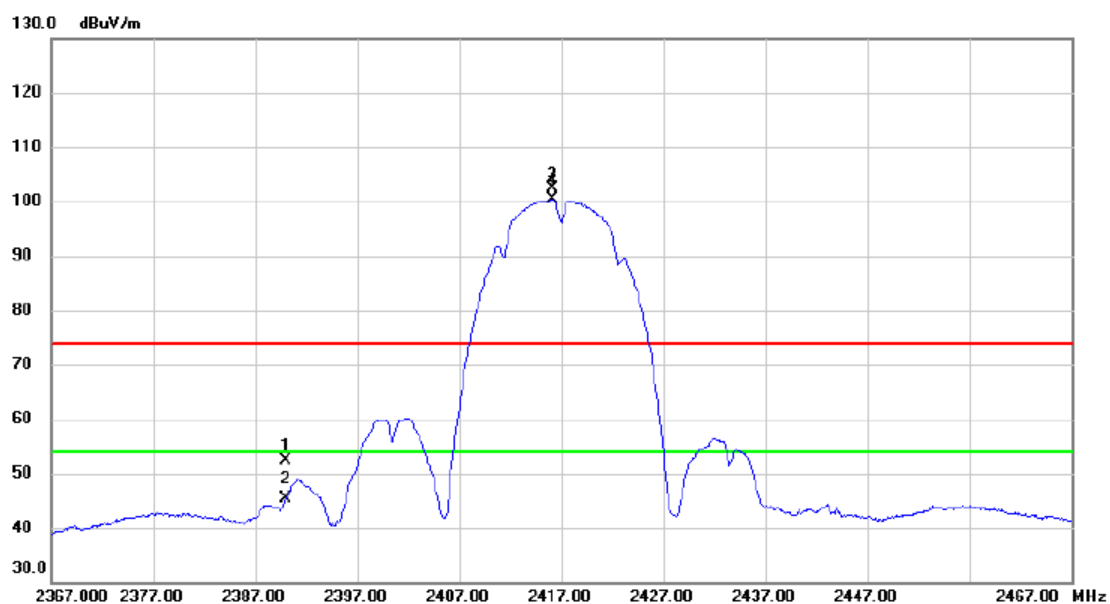
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4833.935	41.36	5.80	47.16	54.00	-6.84	AVG	
2		4833.955	43.93	5.80	49.73	74.00	-24.27	peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2417MHz

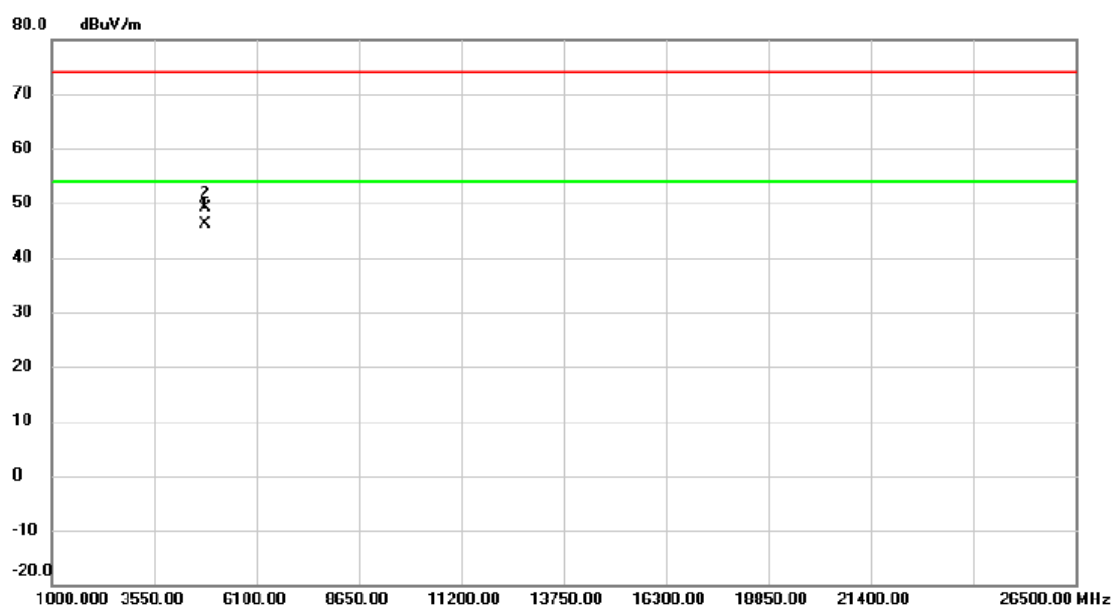
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	43.38	9.00	52.38	74.00	-21.62	peak	
2		2390.000	36.40	9.00	45.40	54.00	-8.60	AVG	
3	X	2416.200	93.27	9.00	102.27	74.00	28.27	peak	No Limit
4	*	2416.200	91.39	9.00	100.39	54.00	46.39	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX B MODE 2417MHz

Horizontal

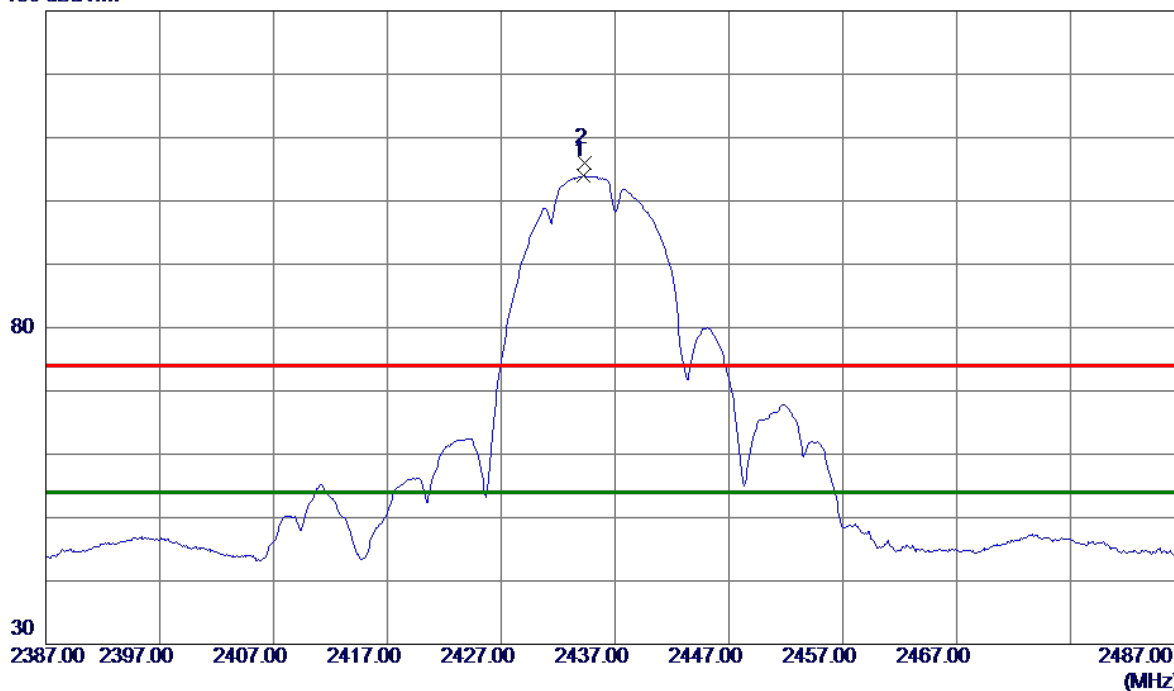


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4833.985	40.28	5.80	46.08	54.00	-7.92	AVG	
2		4834.055	43.23	5.80	49.03	74.00	-24.97	peak	

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

Vertical

130 dBuV/m

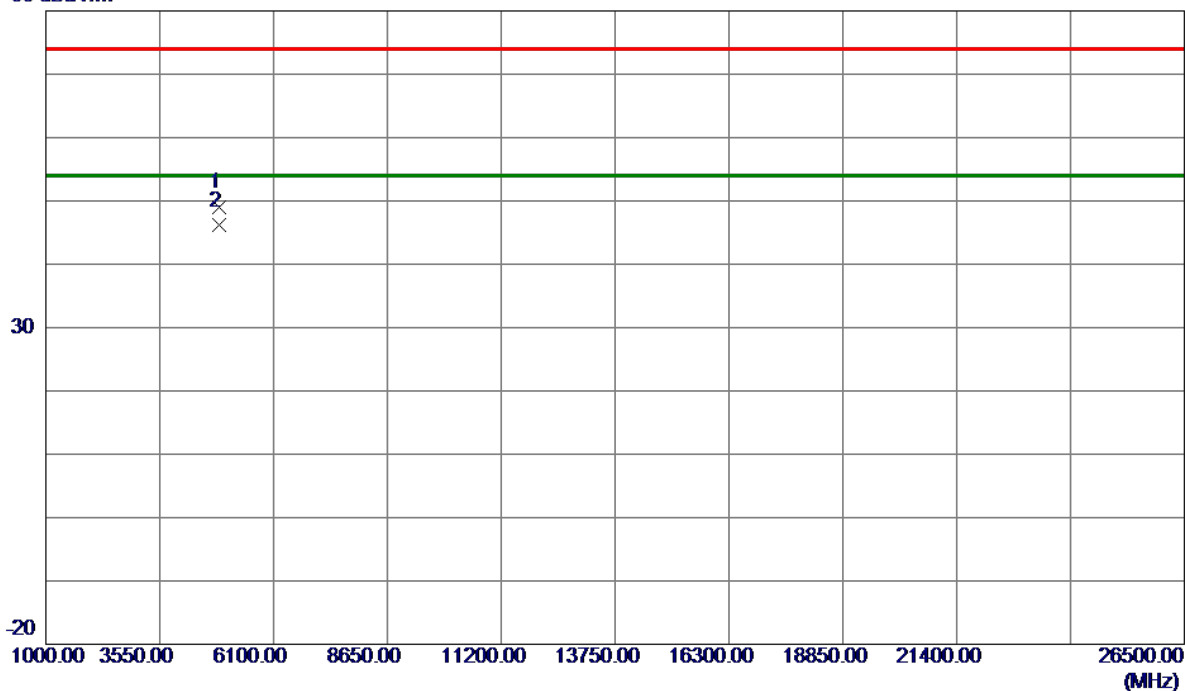


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2434.2000	95.00	8.99	103.99	54.00	49.99	AVG	No Limit
2	2434.3000	96.98	8.99	105.97	74.00	31.97	Peak	No Limit

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

Vertical

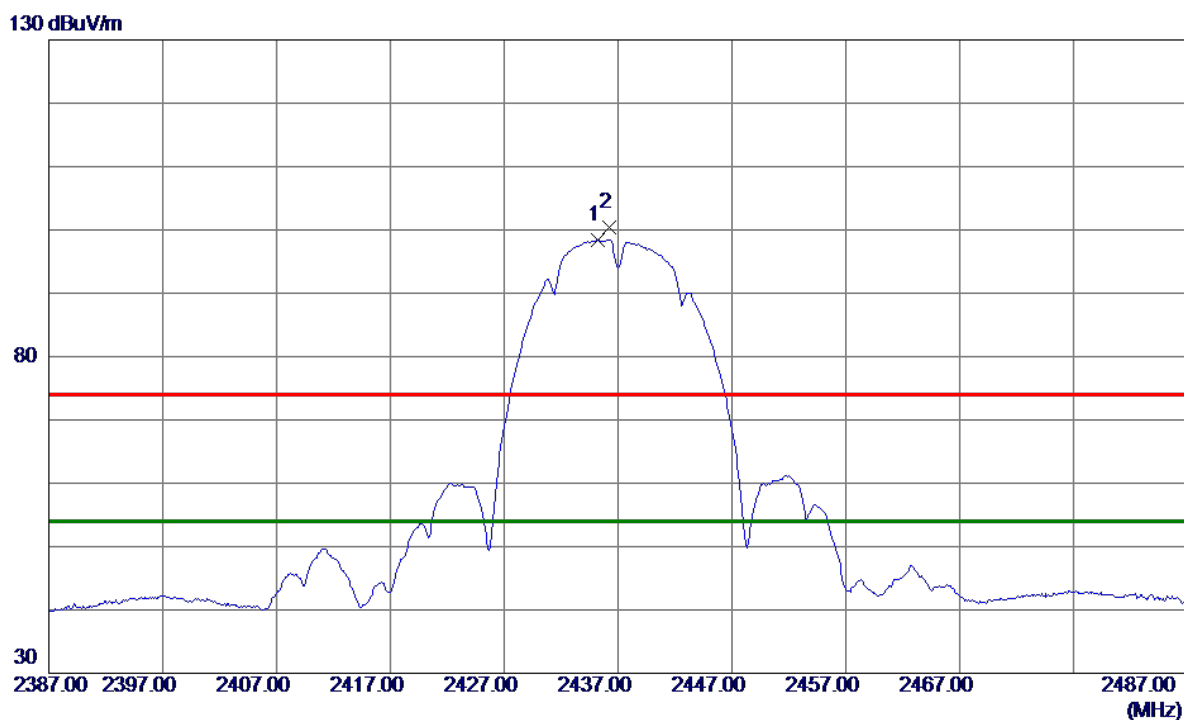
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4873.9100	43.12	5.90	49.02	74.00	-24.98	Peak	
2 *	4873.9500	40.20	5.90	46.10	54.00	-7.90	AVG	

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

Horizontal

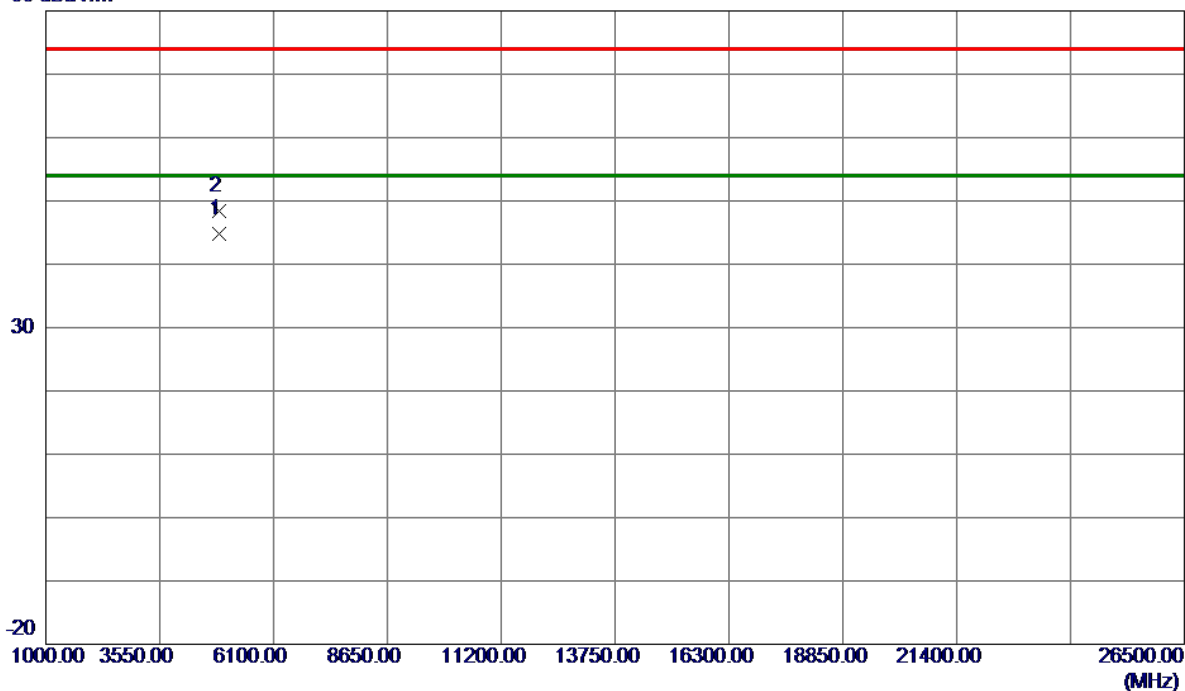


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2435.2000	89.39	8.99	98.38	54.00	44.38	AVG	No Limit
2	2436.2000	91.33	8.99	100.32	74.00	26.32	Peak	No Limit

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

Horizontal

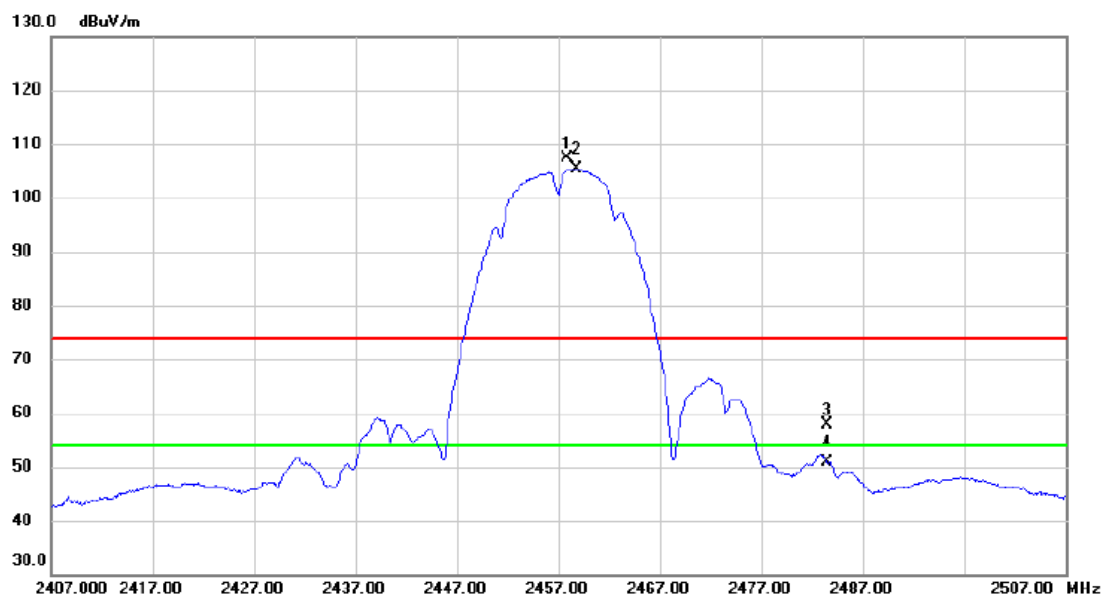
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.9850	38.89	5.90	44.79	54.00	-9.21	AVG	
2	4874.1600	42.43	5.91	48.34	74.00	-25.66	Peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2457MHz

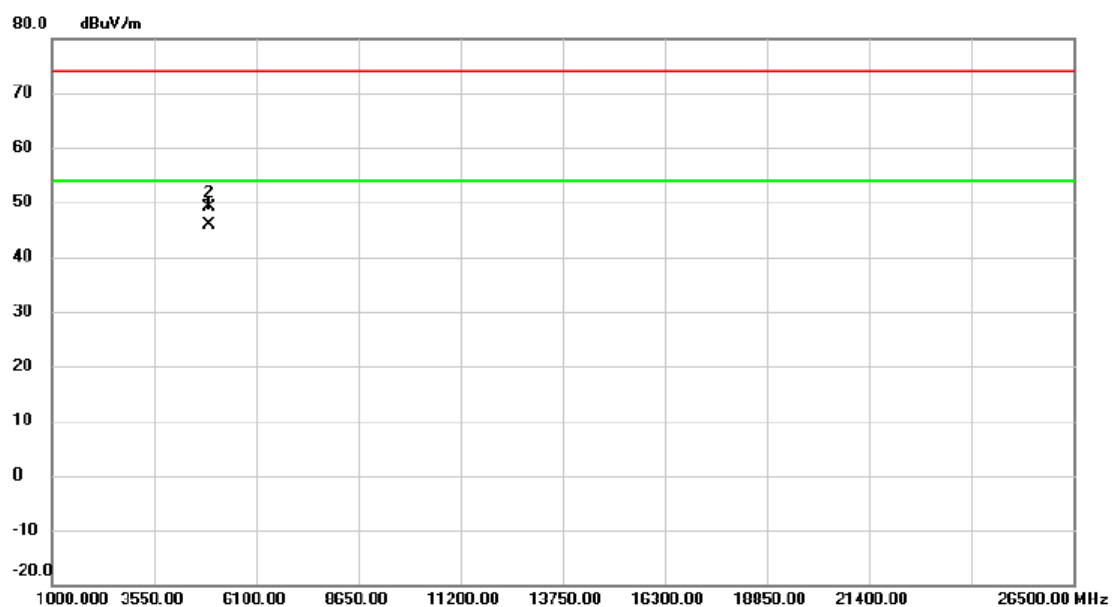
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2457.900	98.38	8.97	107.35	74.00	33.35	peak	No Limit
2	*	2458.800	96.41	8.97	105.38	54.00	51.38	AVG	No Limit
3		2483.500	48.83	8.96	57.79	74.00	-16.21	peak	
4		2483.500	41.91	8.96	50.87	54.00	-3.13	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2457MHz

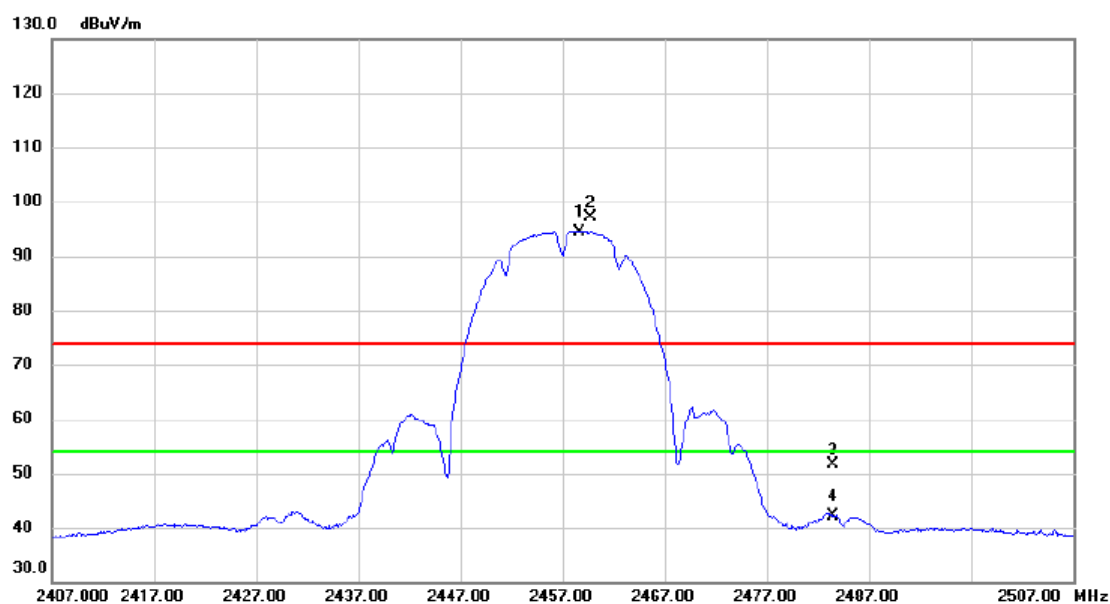
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4913.965	39.95	6.01	45.96	54.00	-8.04	AVG	
2		4914.040	43.00	6.01	49.01	74.00	-24.99	peak	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2457MHz

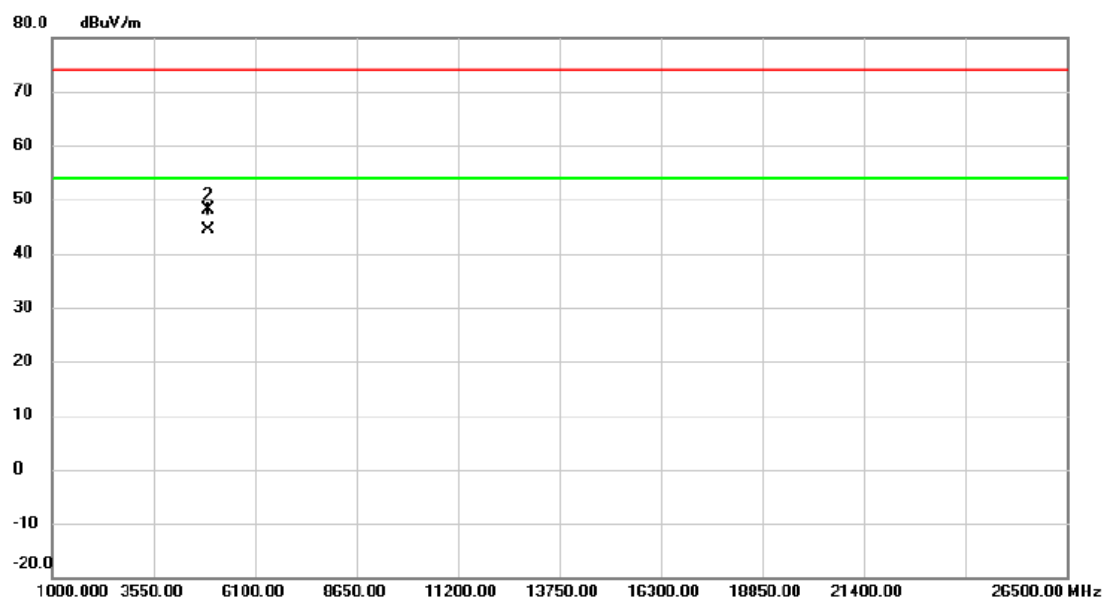
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2458.700	85.52	8.97	94.49	54.00	40.49	AVG	No Limit
2	X	2459.700	88.10	8.98	97.08	74.00	23.08	peak	No Limit
3		2483.500	42.64	8.96	51.60	74.00	-22.40	peak	
4		2483.500	33.20	8.96	42.16	54.00	-11.84	AVG	

Orthogonal Axis :	X
Test Mode :	TX B MODE 2457MHz

Horizontal

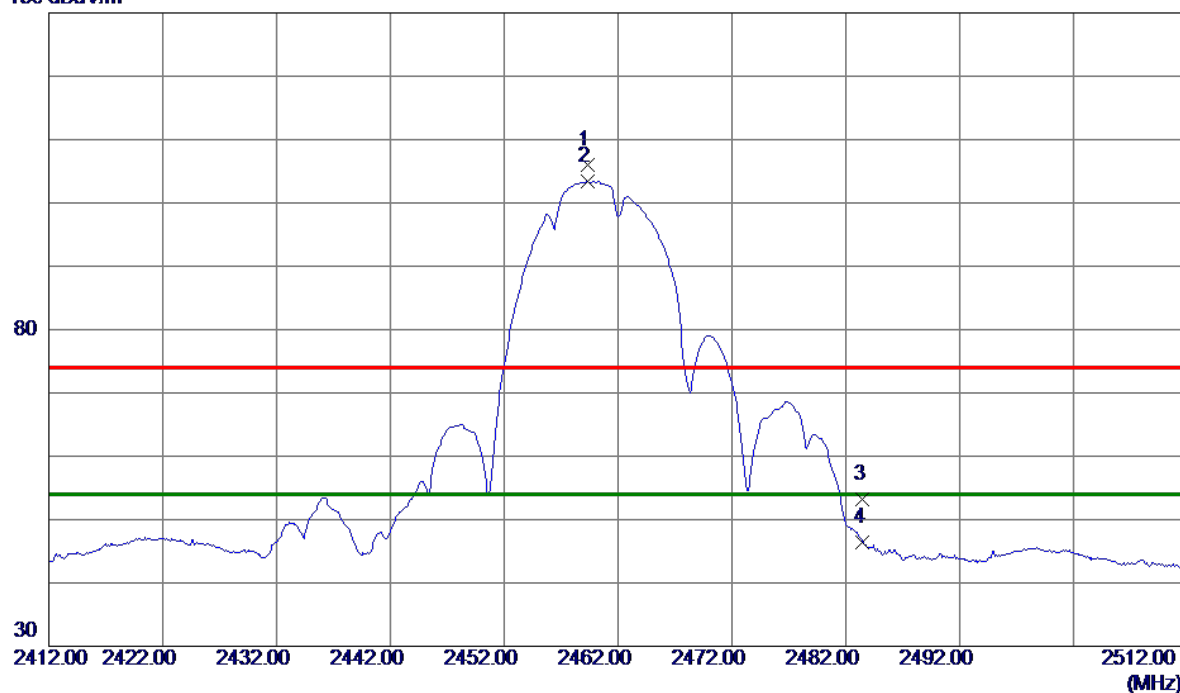


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4913.950	38.25	6.01	44.26	54.00	-9.74	AVG	
2		4913.965	42.03	6.01	48.04	74.00	-25.96	peak	

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

Vertical

130 dBuV/m

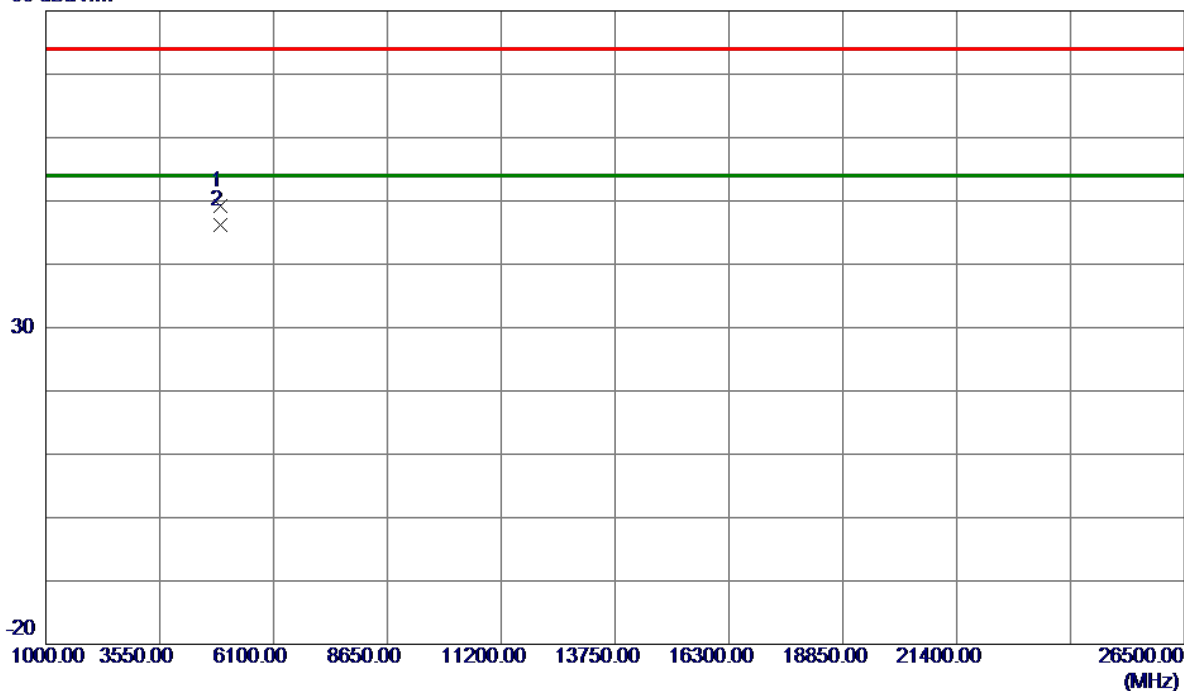


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.3000	96.96	8.98	105.94	74.00	31.94	Peak	No Limit
2 *	2459.3000	94.39	8.98	103.37	54.00	49.37	AVG	No Limit
3	2483.5000	44.24	8.97	53.21	74.00	-20.79	Peak	
4	2483.5000	37.42	8.97	46.39	54.00	-7.61	AVG	

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

Vertical

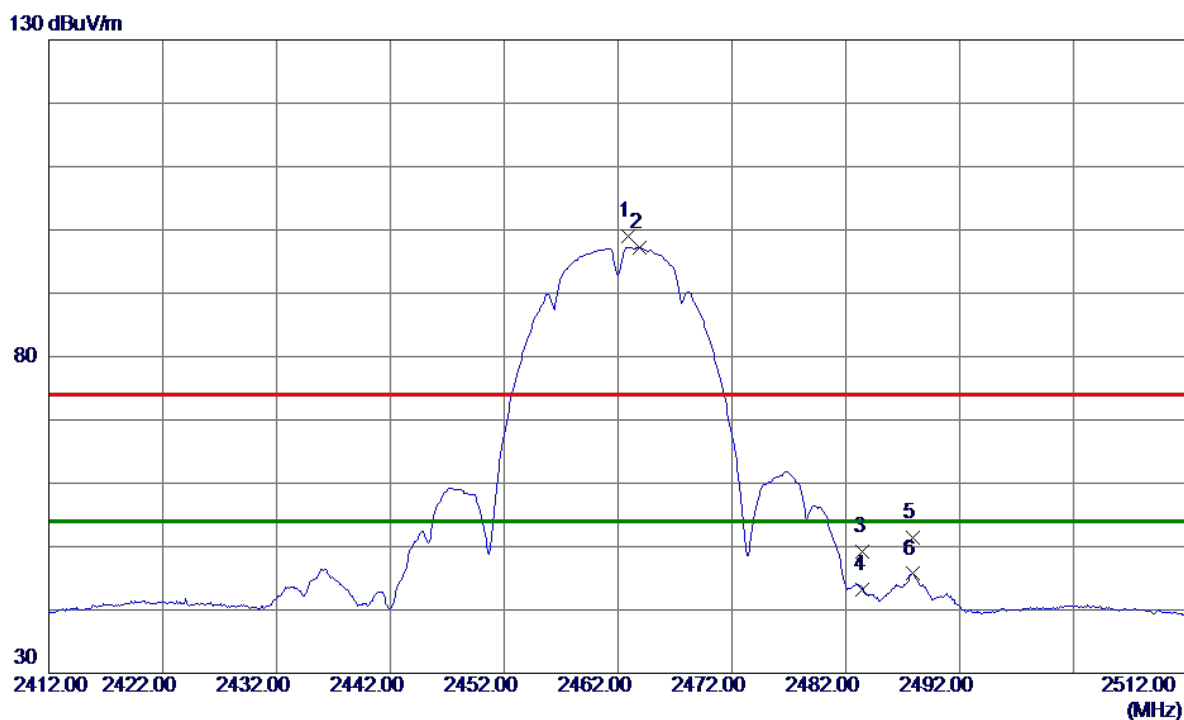
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.9100	43.11	6.03	49.14	74.00	-24.86	Peak	
2 *	4924.0099	40.18	6.03	46.21	54.00	-7.79	AVG	

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

Horizontal

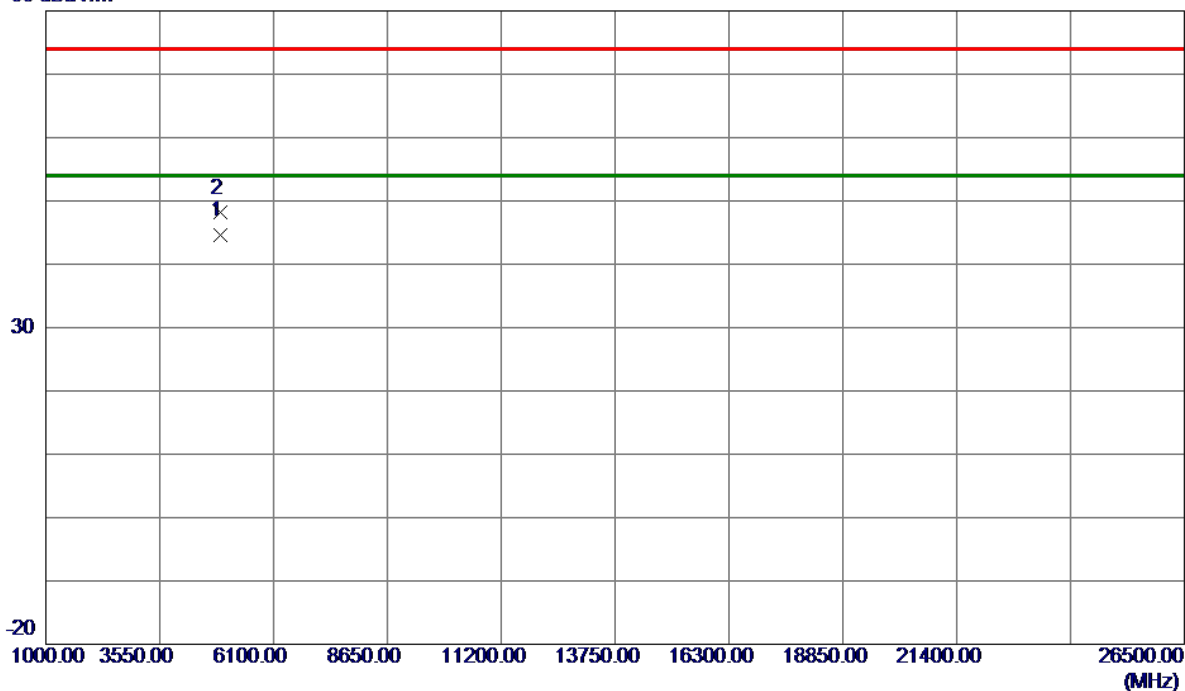


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.9000	90.01	8.97	98.98	74.00	24.98	Peak	No Limit
2 *	2463.9000	88.30	8.97	97.27	54.00	43.27	AVG	No Limit
3	2483.5000	40.16	8.97	49.13	74.00	-24.87	Peak	
4	2483.5000	34.27	8.97	43.24	54.00	-10.76	AVG	
5	2487.9000	42.42	8.96	51.38	74.00	-22.62	Peak	
6	2487.9000	36.74	8.96	45.70	54.00	-8.30	AVG	

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

Horizontal

80 dBuV/m

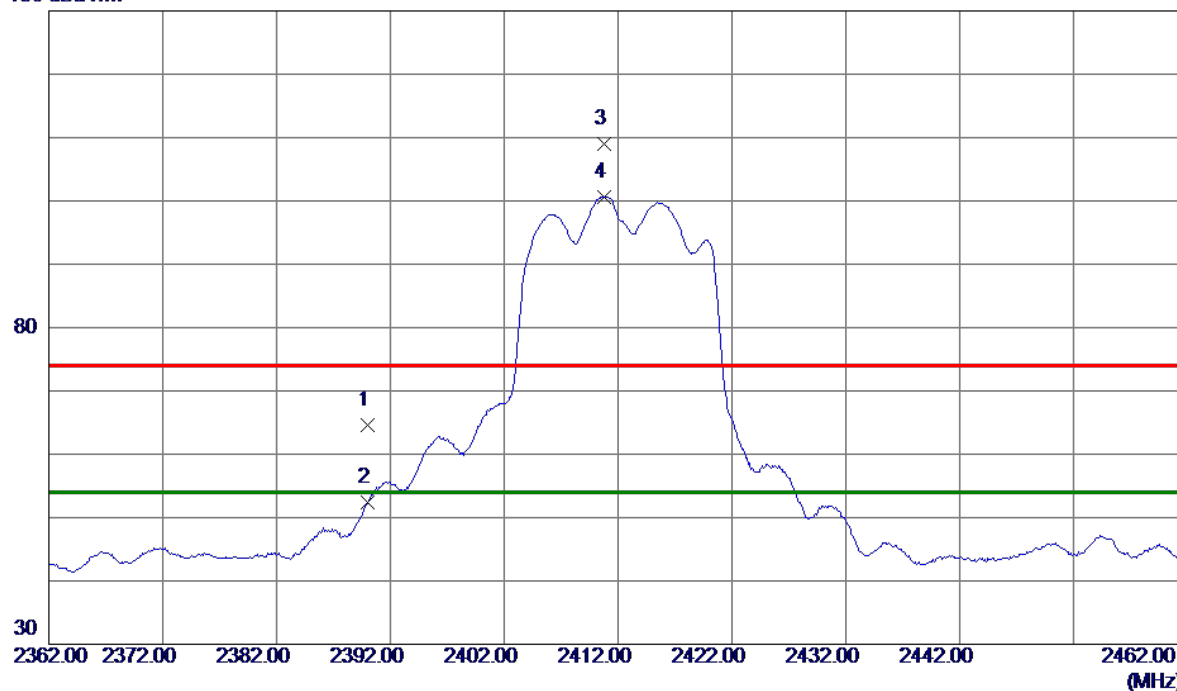


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.9300	38.50	6.03	44.53	54.00	-9.47	AVG	
2	4924.1100	42.07	6.03	48.10	74.00	-25.90	Peak	

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

Vertical

130 dBuV/m

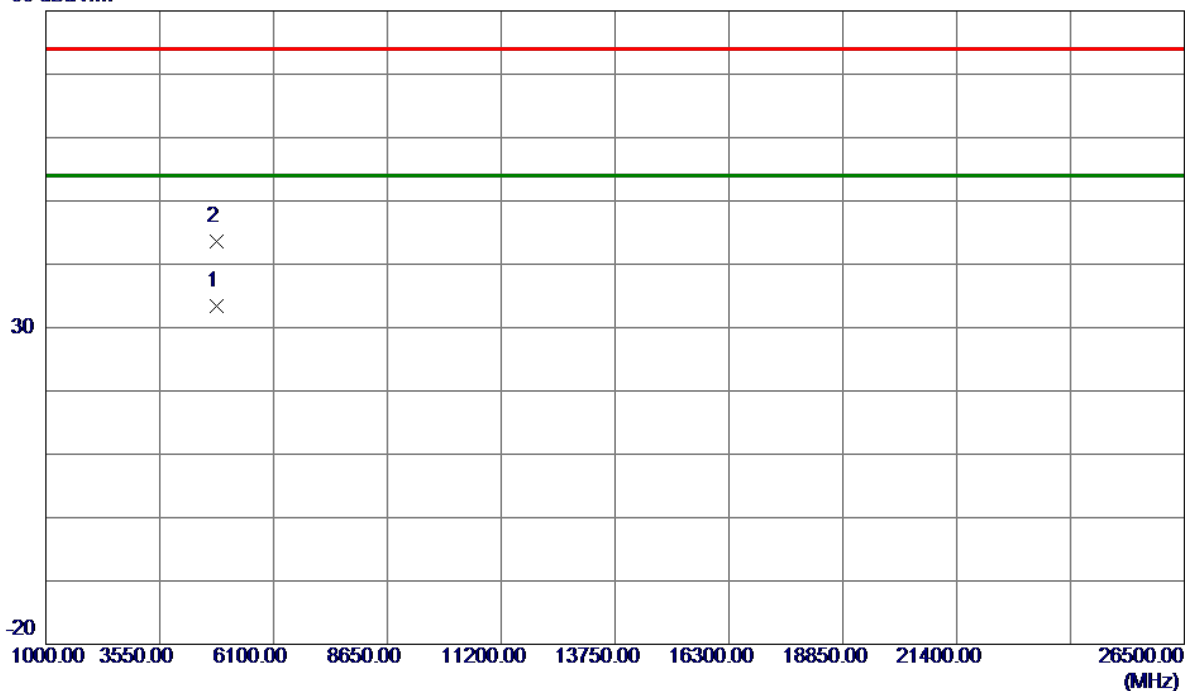


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	55.61	9.00	64.61	74.00	-9.39	Peak	
2	2390.0000	43.42	9.00	52.42	54.00	-1.58	AVG	
3	2410.8000	100.04	9.00	109.04	74.00	35.04	Peak	No Limit
4 *	2410.8000	91.67	9.00	100.67	54.00	46.67	AVG	No Limit

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

Vertical

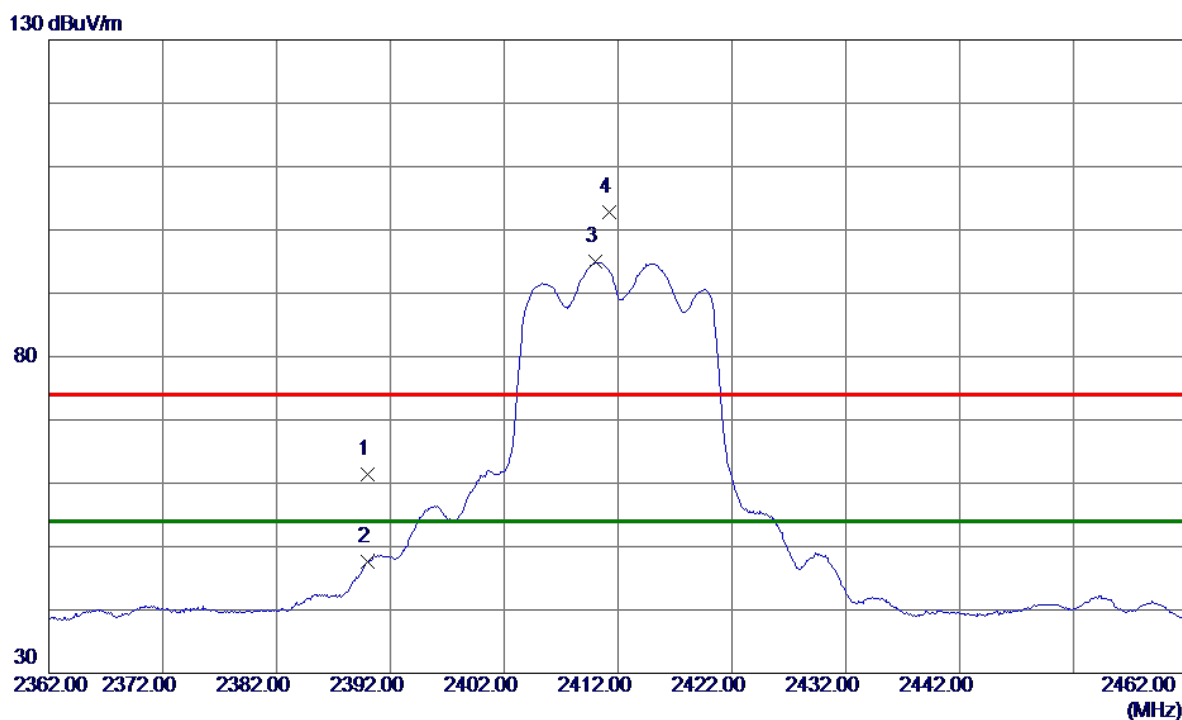
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4824.5000	27.66	5.78	33.44	54.00	-20.56	AVG	
2	4824.7000	37.83	5.78	43.61	74.00	-30.39	Peak	

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

Horizontal

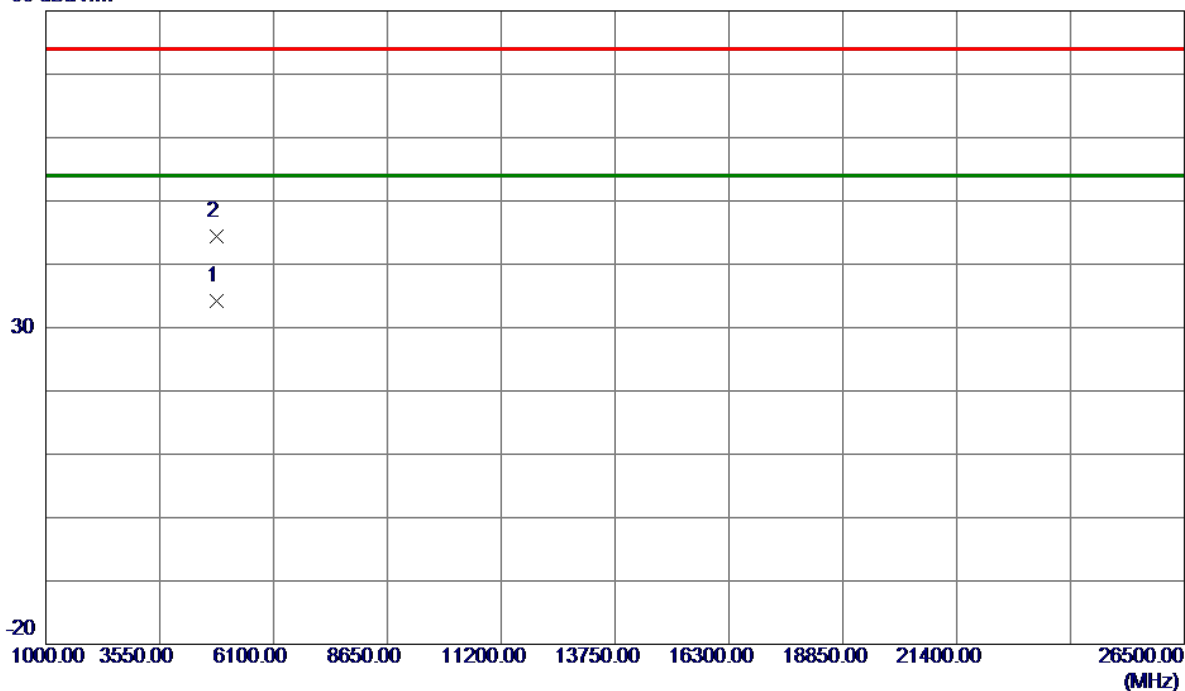


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	52.39	9.00	61.39	74.00	-12.61	Peak	
2	2390.0000	38.59	9.00	47.59	54.00	-6.41	AVG	
3 *	2410.0000	86.01	9.00	95.01	54.00	41.01	AVG	No Limit
4	2411.2000	93.78	9.00	102.78	74.00	28.78	Peak	No Limit

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

Horizontal

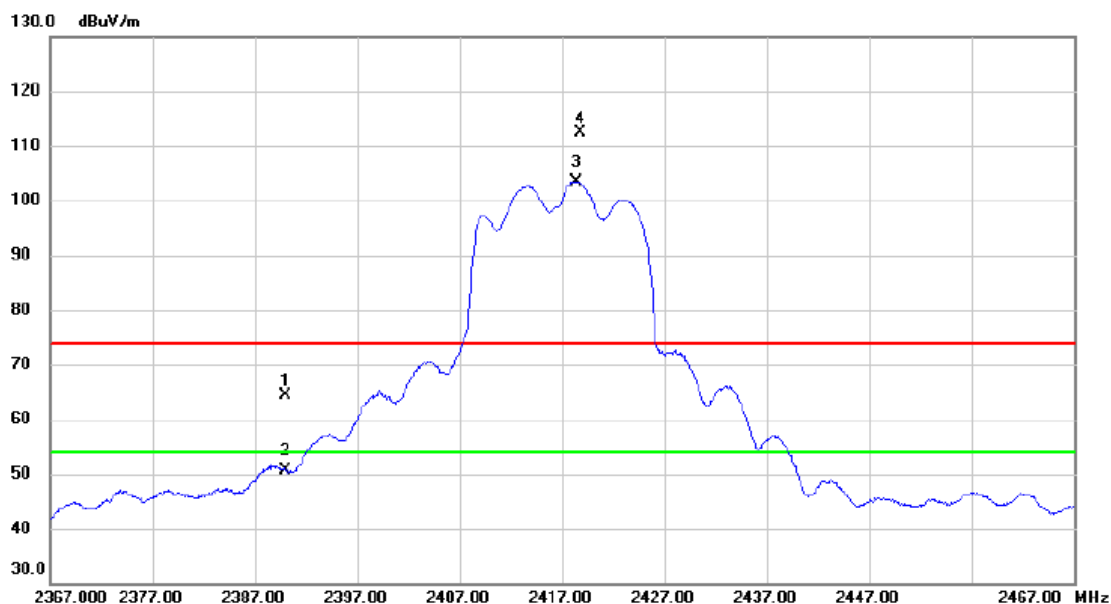
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9000	28.45	5.78	34.23	54.00	-19.77	AVG	
2	4828.6000	38.68	5.79	44.47	74.00	-29.53	Peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2417MHz

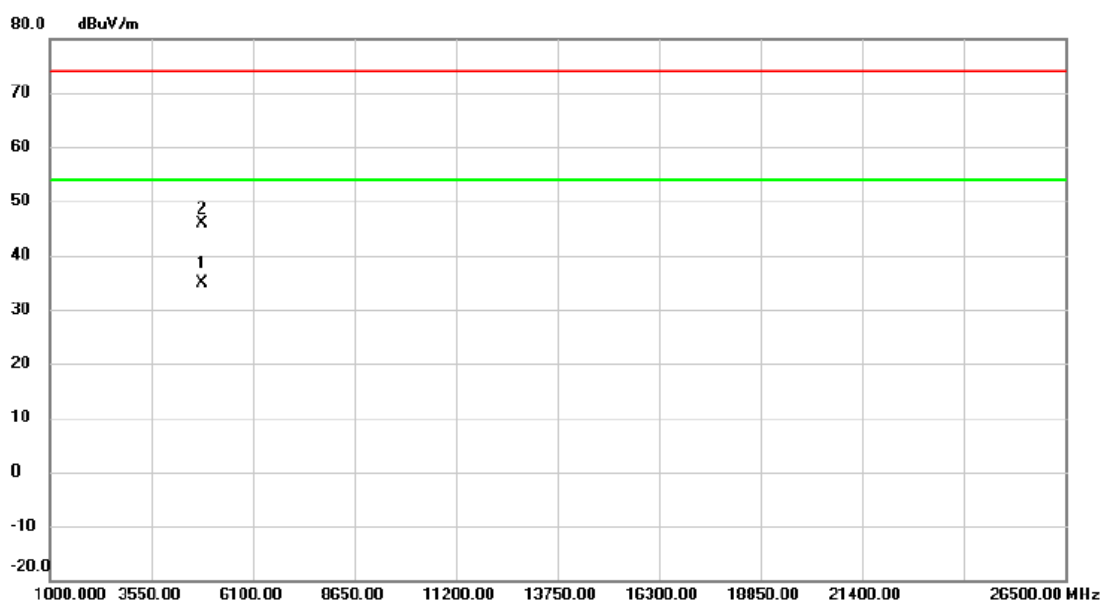
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	55.46	9.00	64.46	74.00	-9.54	peak	
2		2390.000	41.70	9.00	50.70	54.00	-3.30	AVG	
3	*	2418.400	94.50	8.99	103.49	54.00	49.49	AVG	No Limit
4	X	2418.800	103.46	8.99	112.45	74.00	38.45	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2417MHz

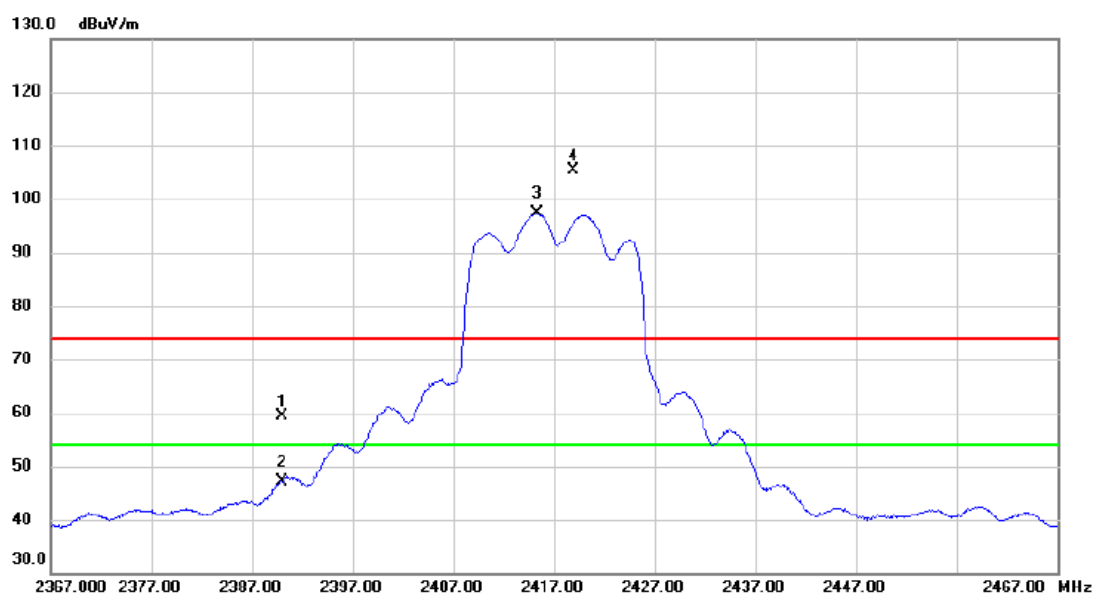
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4834.800	29.08	5.80	34.88	54.00	-19.12	AVG	
2		4835.150	39.99	5.80	45.79	74.00	-28.21	peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2417MHz

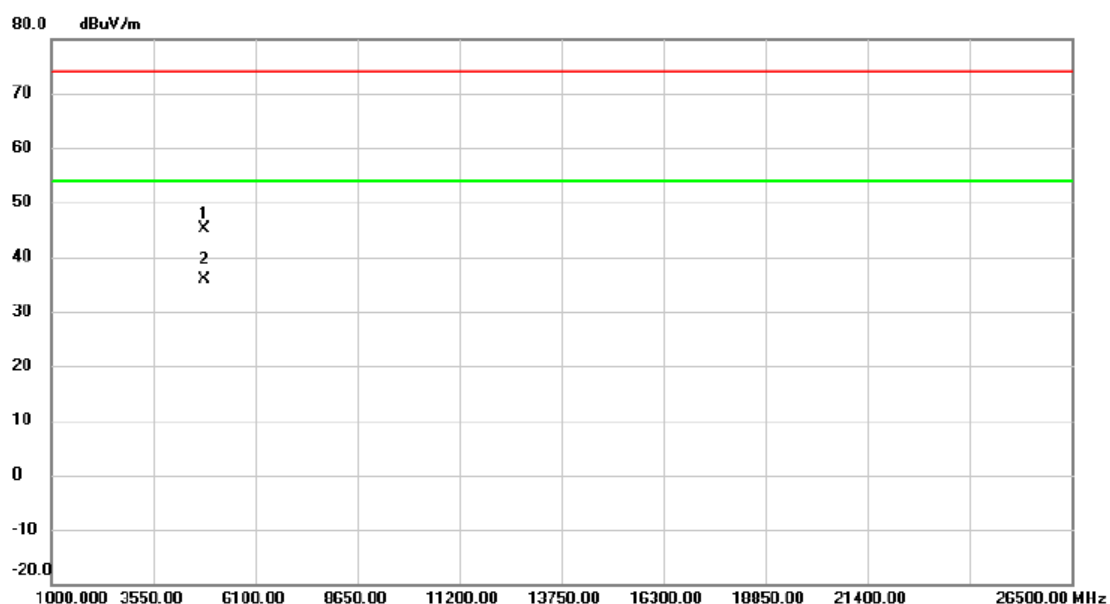
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	50.29	9.00	59.29	74.00	-14.71	peak	
2		2390.000	38.14	9.00	47.14	54.00	-6.86	AVG	
3	*	2415.300	88.28	9.00	97.28	54.00	43.28	AVG	No Limit
4	X	2418.900	96.31	8.99	105.30	74.00	31.30	peak	No Limit

Orthogonal Axis :	X
Test Mode :	TX G MODE 2417MHz

Horizontal

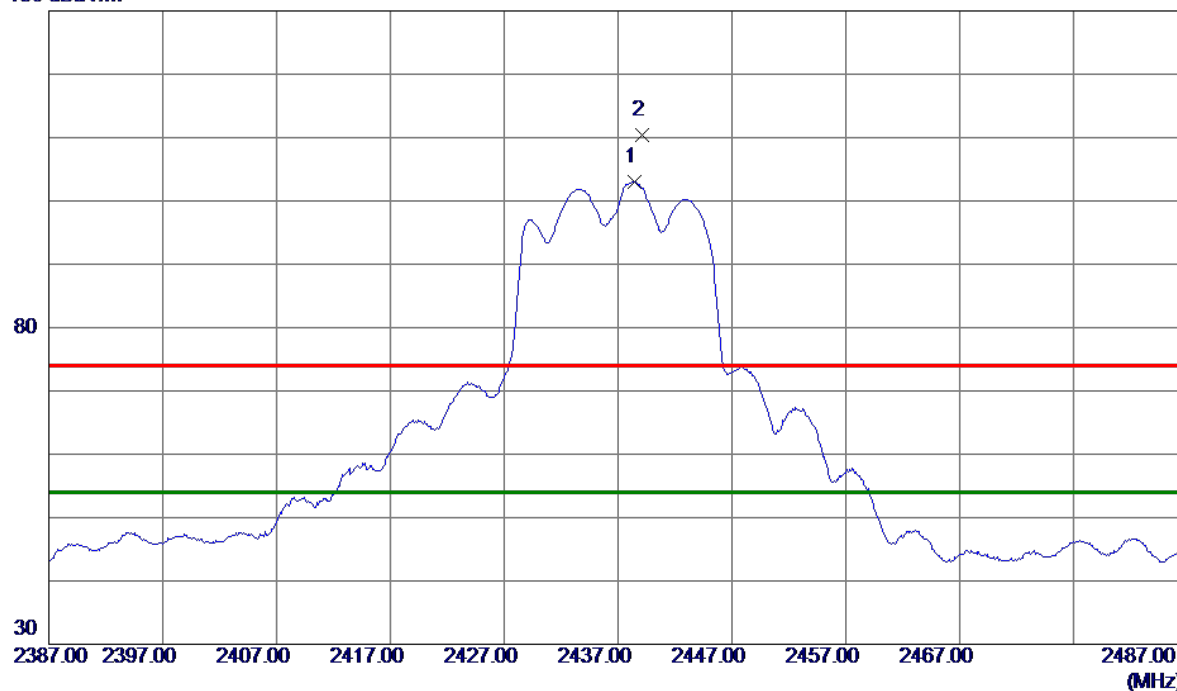


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4833.500	39.44	5.80	45.24	74.00	-28.76	peak	
2	*	4834.000	29.96	5.80	35.76	54.00	-18.24	AVG	

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

Vertical

130 dBuV/m

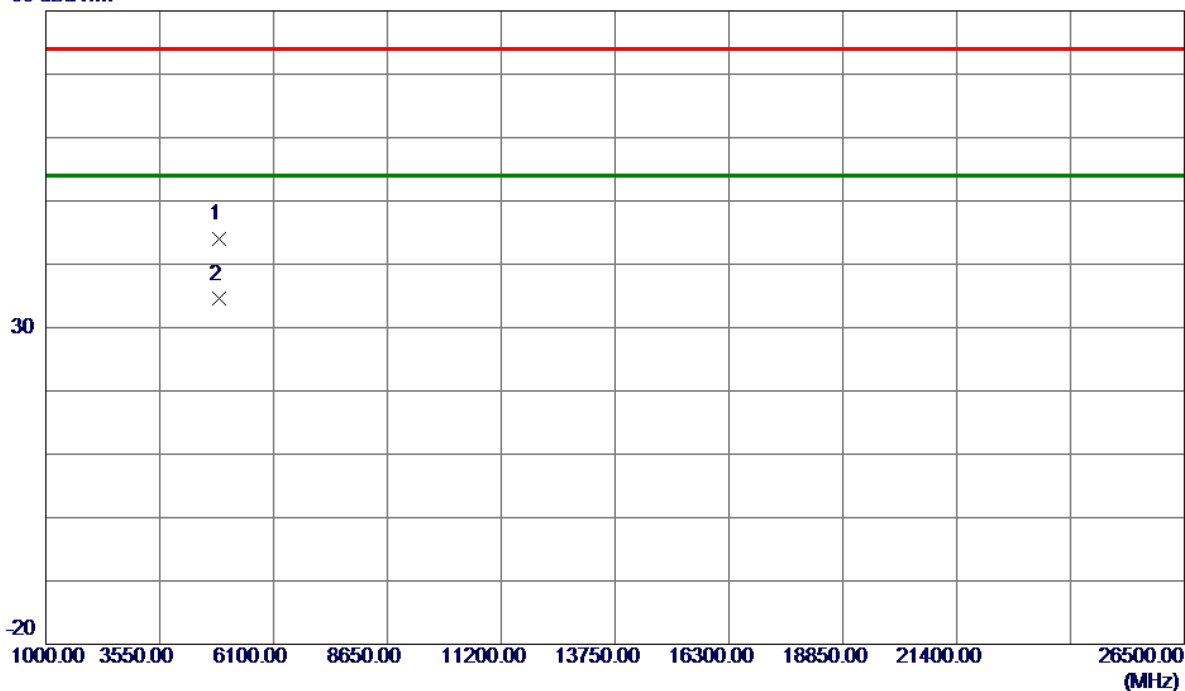


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2438.4000	94.03	8.98	103.01	54.00	49.01	AVG	No Limit
2	2439.1000	101.42	8.98	110.40	74.00	36.40	Peak	No Limit

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

Vertical

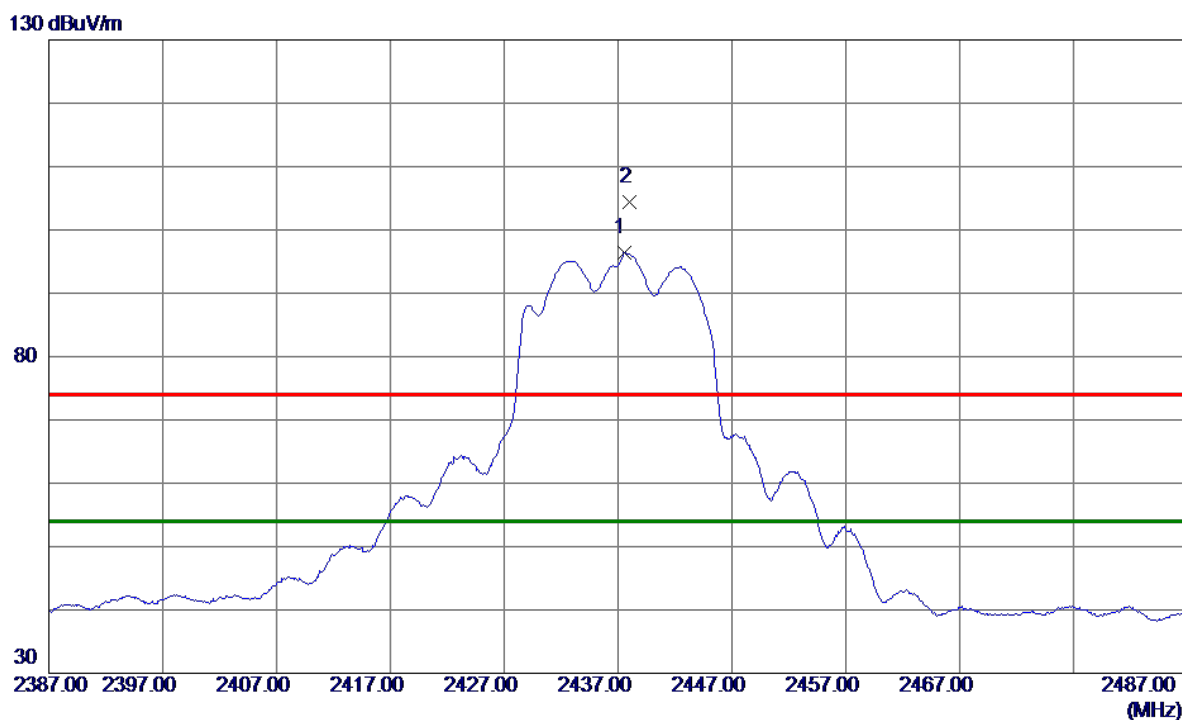
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4874.0000	38.17	5.90	44.07	74.00	-29.93	Peak	
2 *	4874.4000	28.59	5.91	34.50	54.00	-19.50	AVG	

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

Horizontal

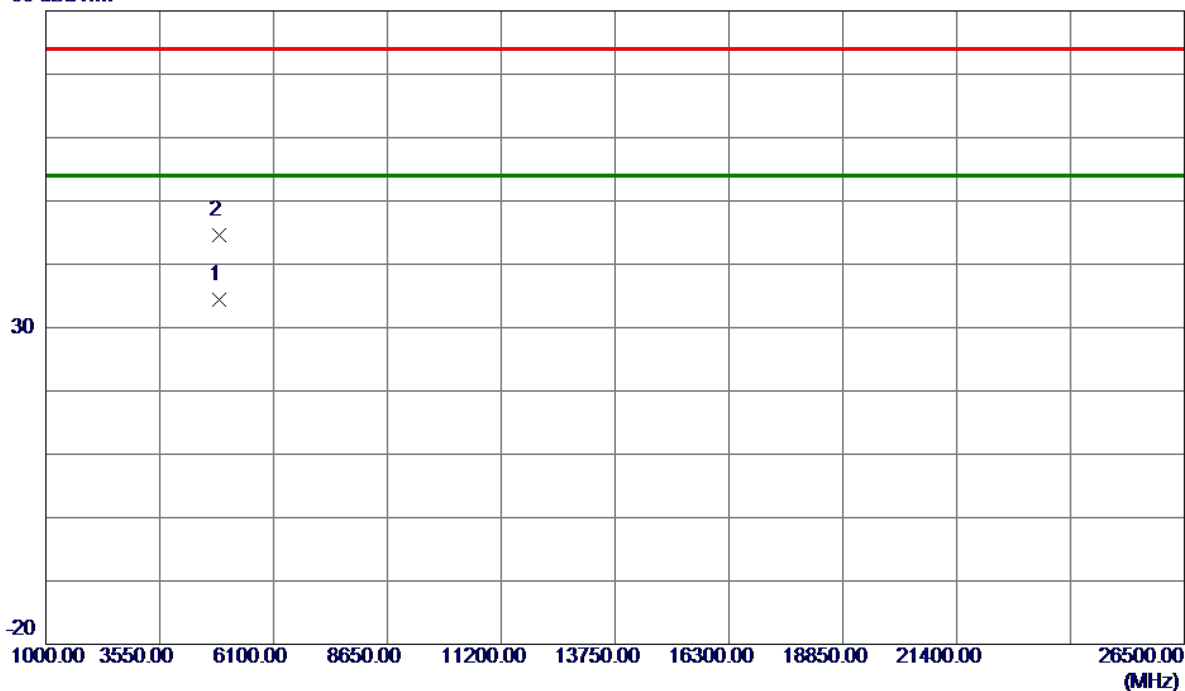


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.5000	87.38	8.98	96.36	54.00	42.36	AVG	No Limit
2	2438.0000	95.41	8.98	104.39	74.00	30.39	Peak	No Limit

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

Horizontal

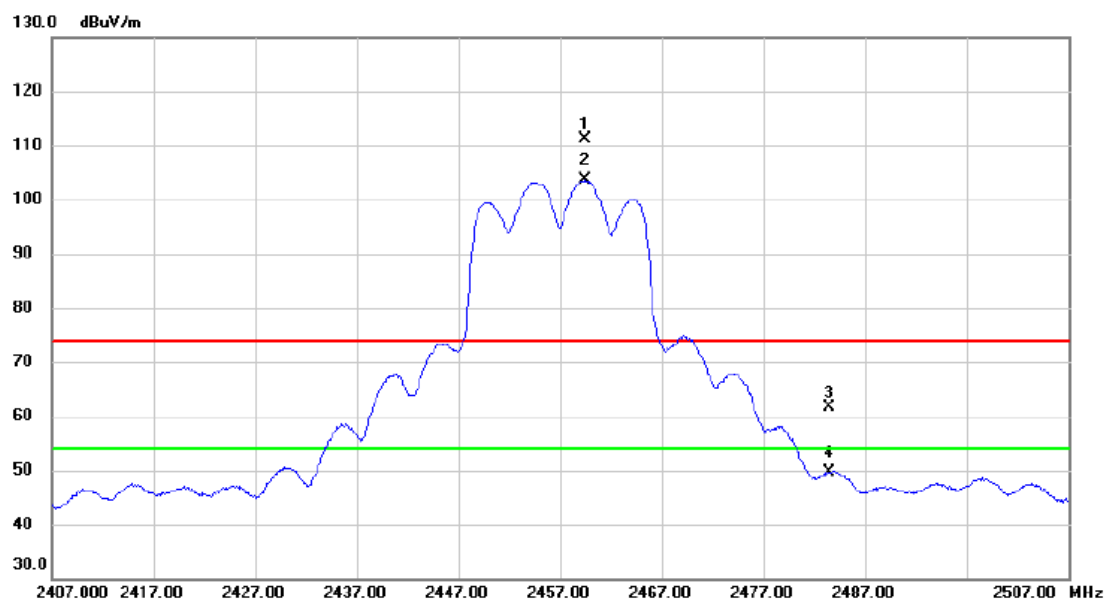
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.8000	28.44	5.90	34.34	54.00	-19.66	AVG	
2	4873.9000	38.61	5.90	44.51	74.00	-29.49	Peak	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2457MHz

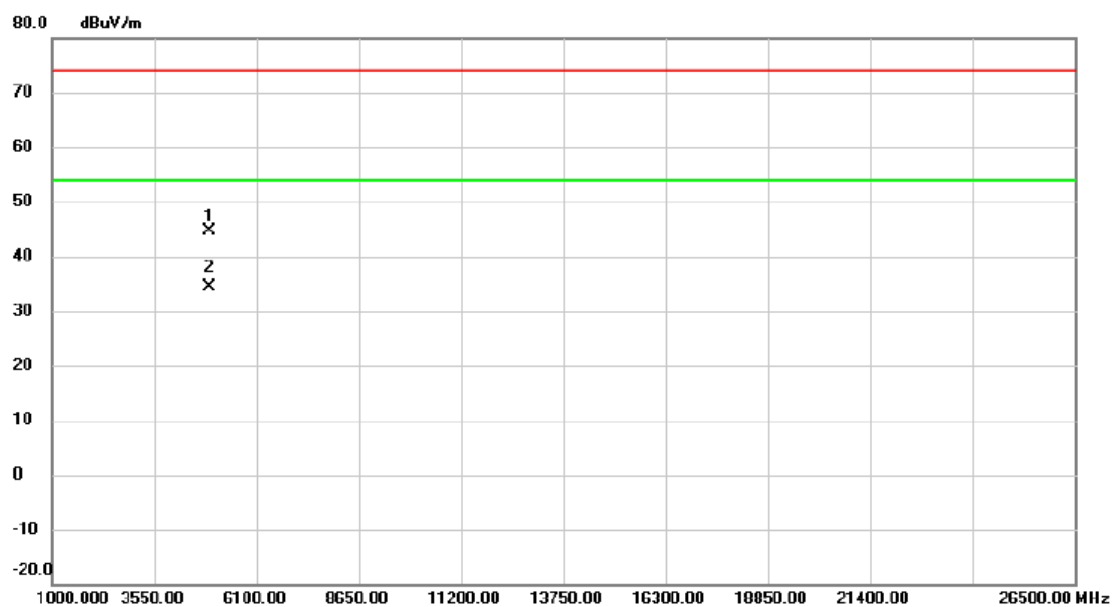
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2459.500	102.27	8.98	111.25	74.00	37.25	peak	No Limit
2	*	2459.500	94.61	8.98	103.59	54.00	49.59	AVG	No Limit
3		2483.500	52.59	8.96	61.55	74.00	-12.45	peak	
4		2483.500	40.68	8.96	49.64	54.00	-4.36	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2457MHz

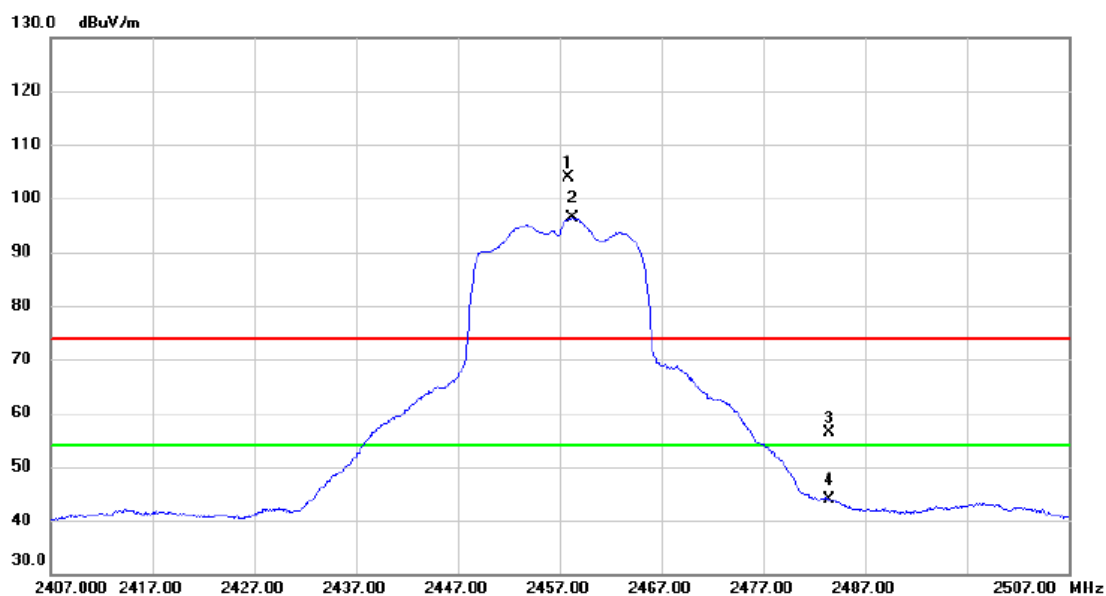
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4913.950	38.69	6.01	44.70	74.00	-29.30	peak	
2	*	4914.200	28.46	6.01	34.47	54.00	-19.53	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2457MHz

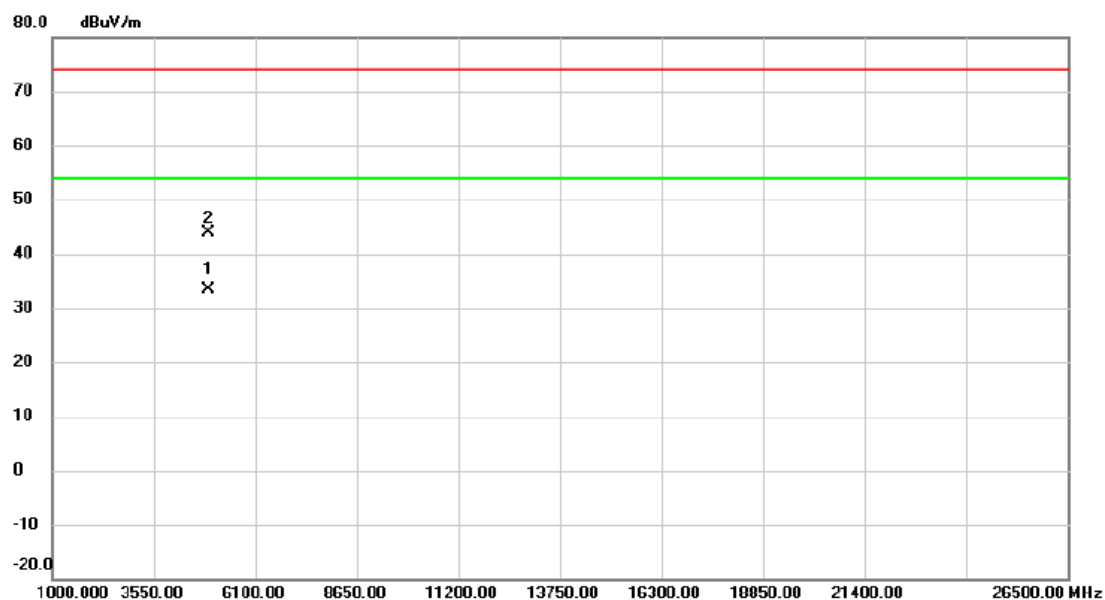
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2457.900	94.93	8.97	103.90	74.00	29.90	peak	No Limit
2	*	2458.300	87.29	8.97	96.26	54.00	42.26	AVG	No Limit
3		2483.500	47.34	8.96	56.30	74.00	-17.70	peak	
4		2483.500	34.94	8.96	43.90	54.00	-10.10	AVG	

Orthogonal Axis :	X
Test Mode :	TX G MODE 2457MHz

Horizontal

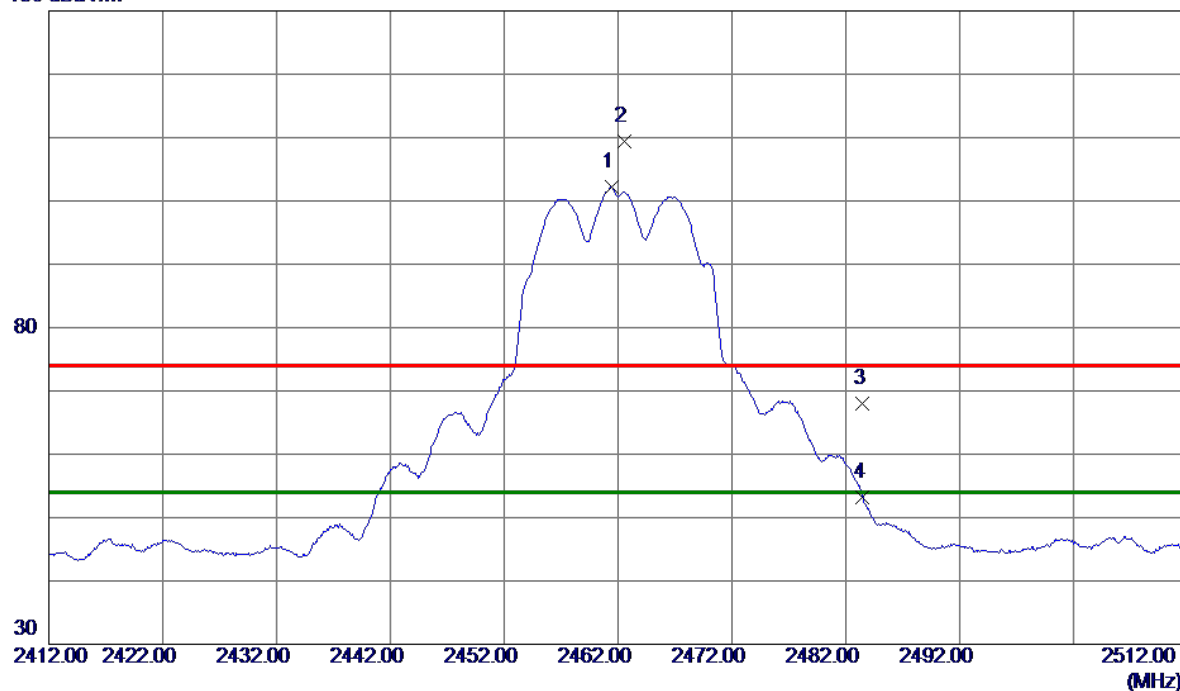


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4913.900	27.30	6.01	33.31	54.00	-20.69	AVG	
2		4918.200	37.85	6.01	43.86	74.00	-30.14	peak	

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

Vertical

130 dBuV/m

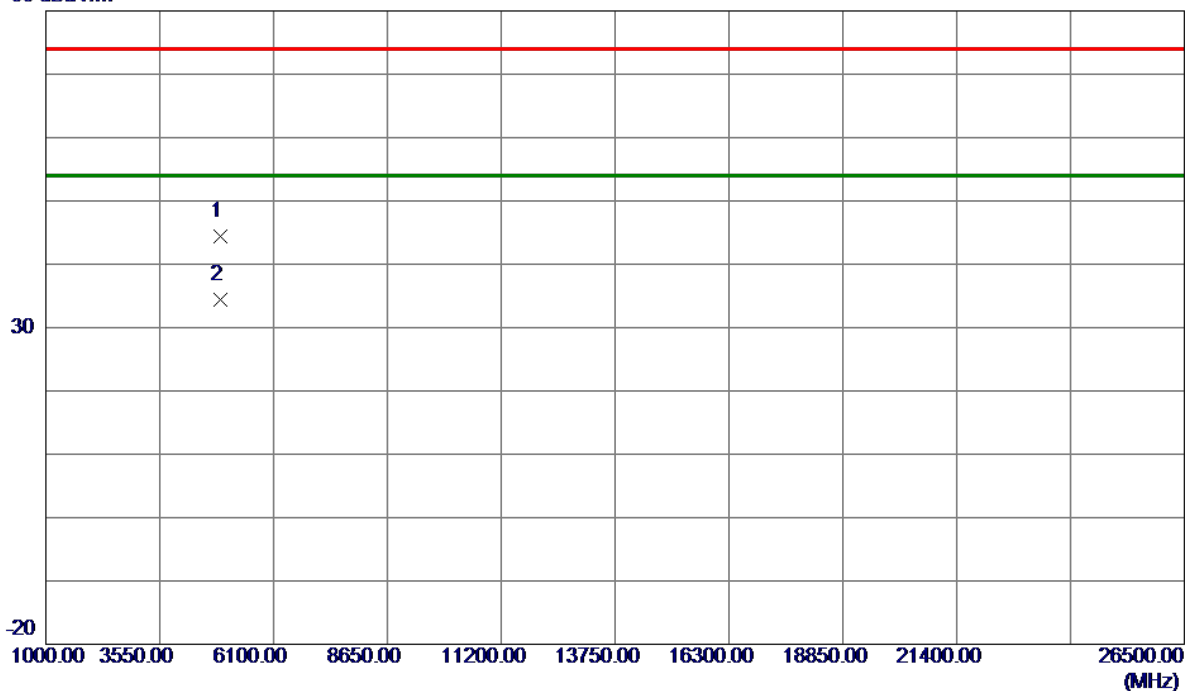


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2461.4000	93.24	8.98	102.22	54.00	48.22	AVG	No Limit
2	2462.6000	100.34	8.97	109.31	74.00	35.31	Peak	No Limit
3	2483.5000	58.97	8.97	67.94	74.00	-6.06	Peak	
4	2483.5000	44.27	8.97	53.24	54.00	-0.76	AVG	

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

Vertical

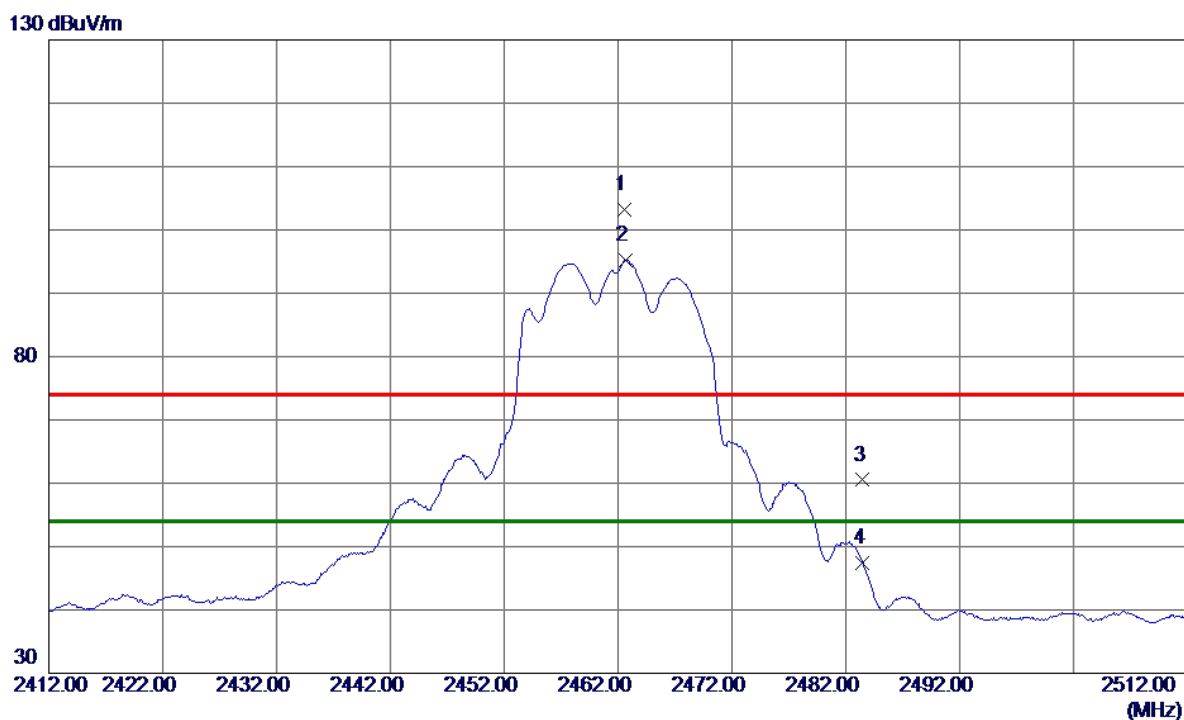
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4918.6500	38.47	6.02	44.49	74.00	-29.51	Peak	
2 *	4924.1000	28.42	6.03	34.45	54.00	-19.55	AVG	

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

Horizontal

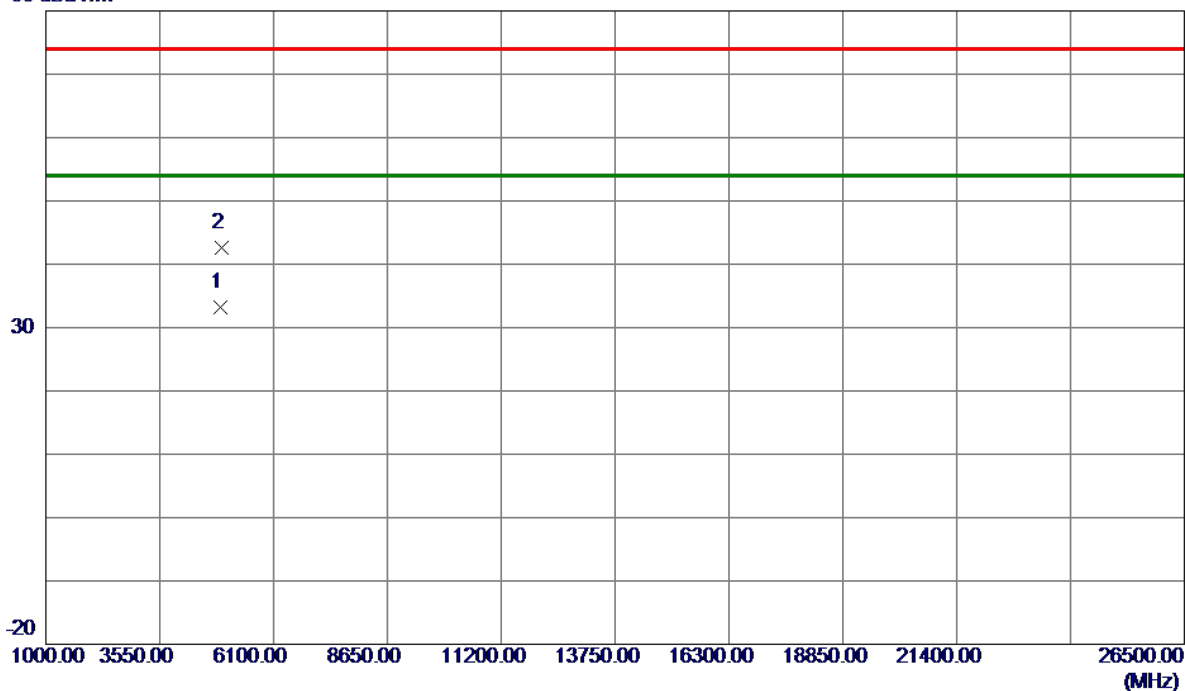


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2462.6000	94.23	8.97	103.20	74.00	29.20	Peak	No Limit
2 *	2462.7000	86.22	8.97	95.19	54.00	41.19	AVG	No Limit
3	2483.5000	51.53	8.97	60.50	74.00	-13.50	Peak	
4	2483.5000	38.46	8.97	47.43	54.00	-6.57	AVG	

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

Horizontal

80 dBuV/m

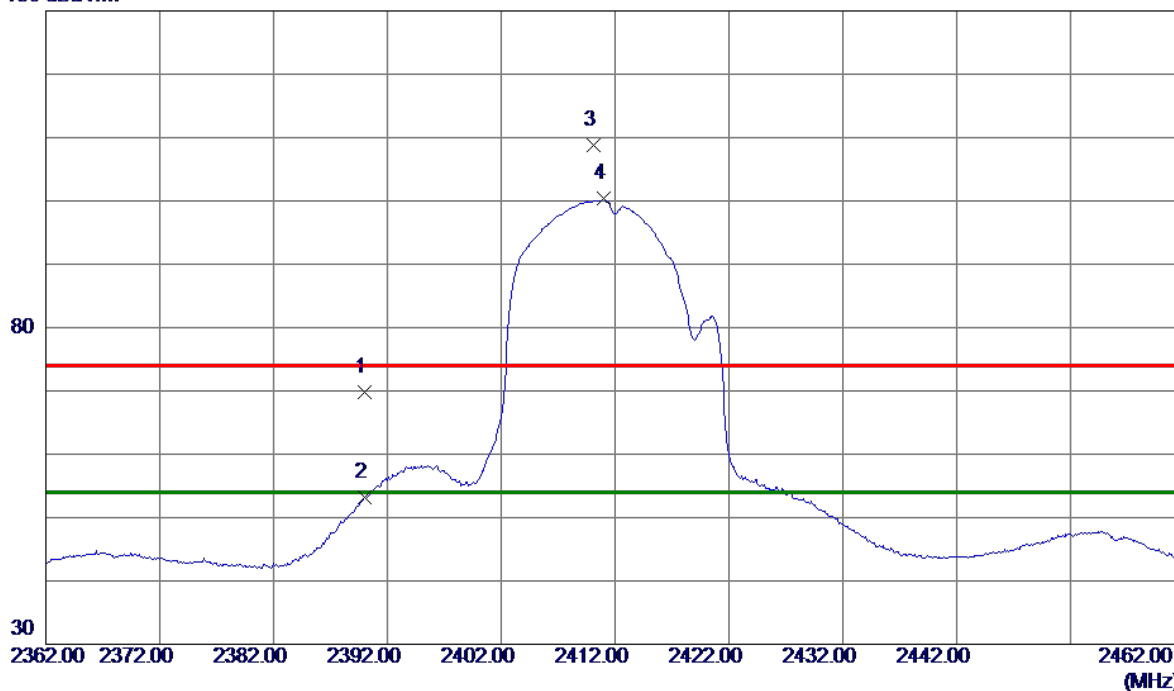


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4923.1500	27.14	6.03	33.17	54.00	-20.83	AVG	
2	4924.2000	36.50	6.03	42.53	74.00	-31.47	Peak	

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

Vertical

130 dBuV/m

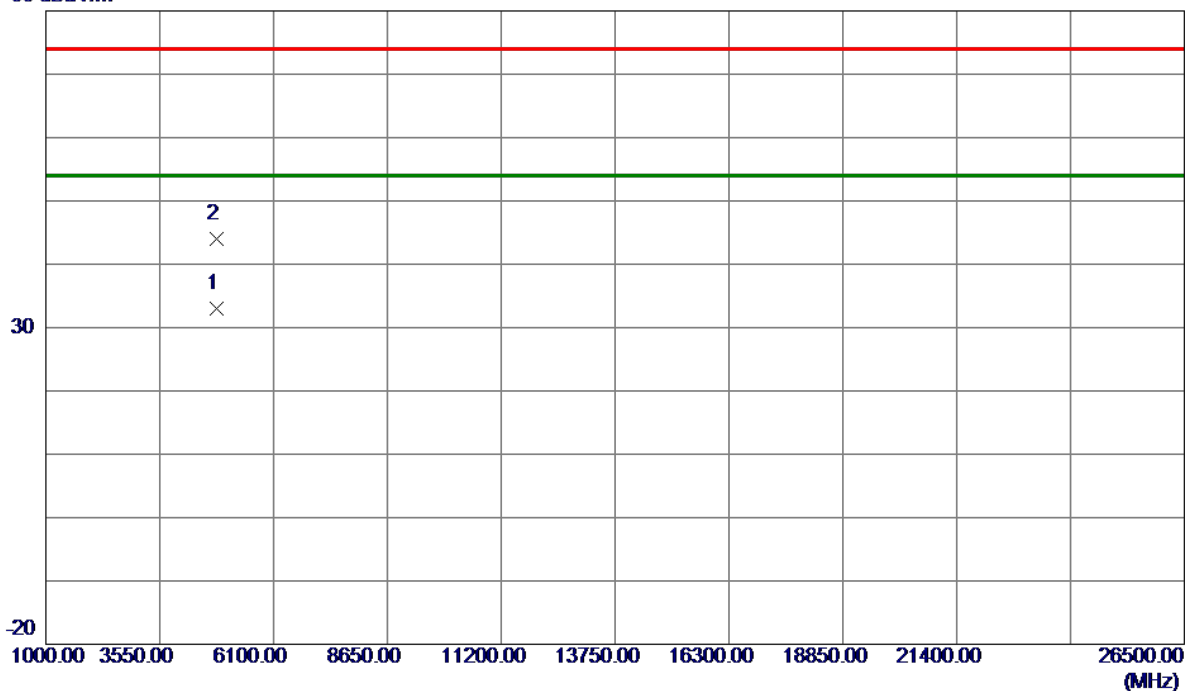


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	60.80	9.00	69.80	74.00	-4.20	Peak	
2	2390.0000	44.23	9.00	53.23	54.00	-0.77	AVG	
3	2410.1000	99.76	9.00	108.76	74.00	34.76	Peak	No Limit
4 *	2411.0000	91.40	9.00	100.40	54.00	46.40	AVG	No Limit

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

Vertical

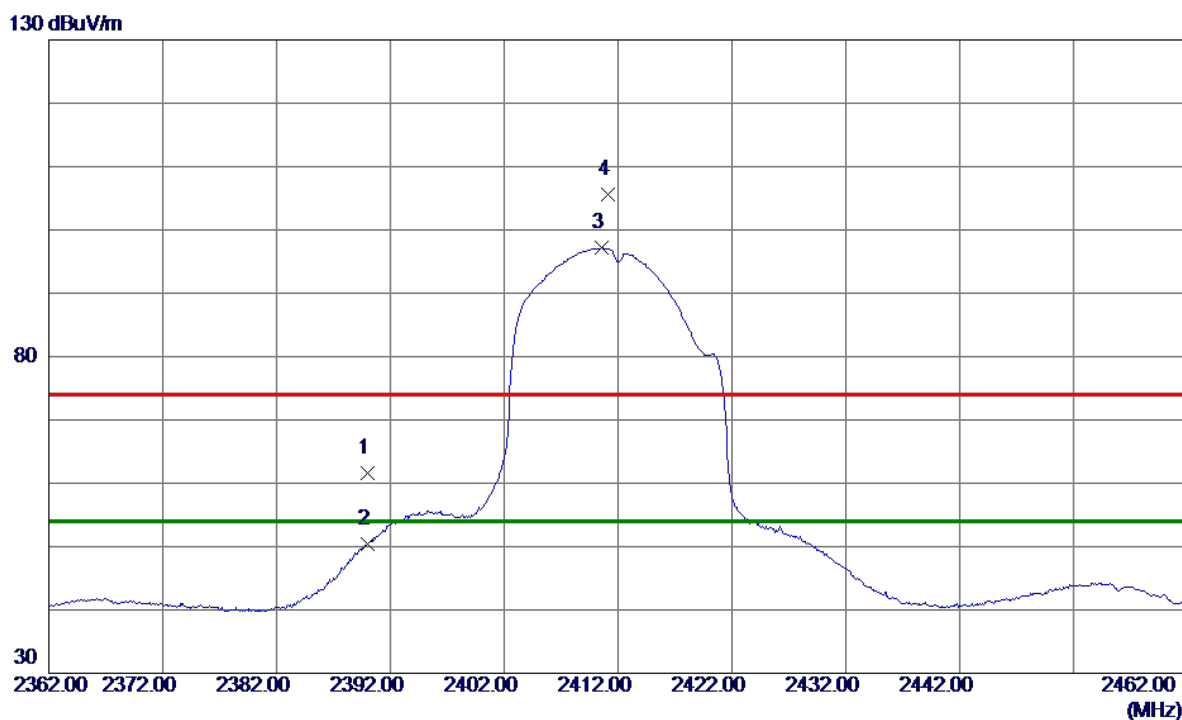
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4825.9500	27.26	5.78	33.04	54.00	-20.96	AVG	
2	4826.8500	38.26	5.79	44.05	74.00	-29.95	Peak	

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

Horizontal

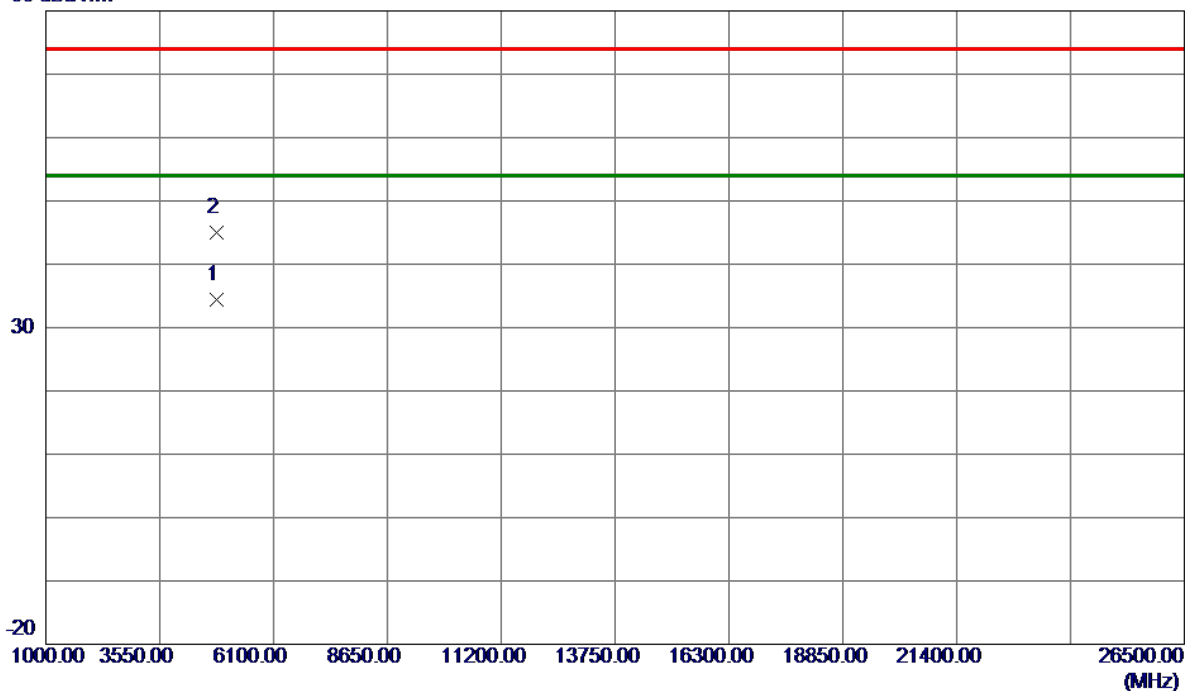


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	52.67	9.00	61.67	74.00	-12.33	Peak	
2	2390.0000	41.38	9.00	50.38	54.00	-3.62	AVG	
3 *	2410.6000	88.14	9.00	97.14	54.00	43.14	AVG	No Limit
4	2411.1000	96.67	9.00	105.67	74.00	31.67	Peak	No Limit

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

Horizontal

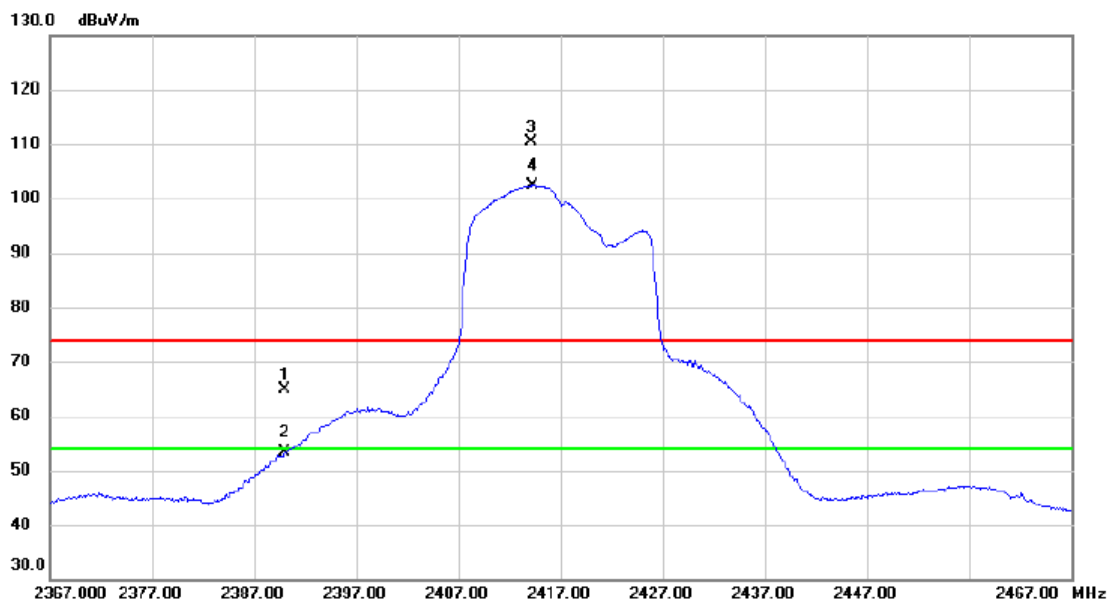
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4823.9000	28.69	5.78	34.47	54.00	-19.53	AVG	
2	4824.2000	39.24	5.78	45.02	74.00	-28.98	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2417MHz

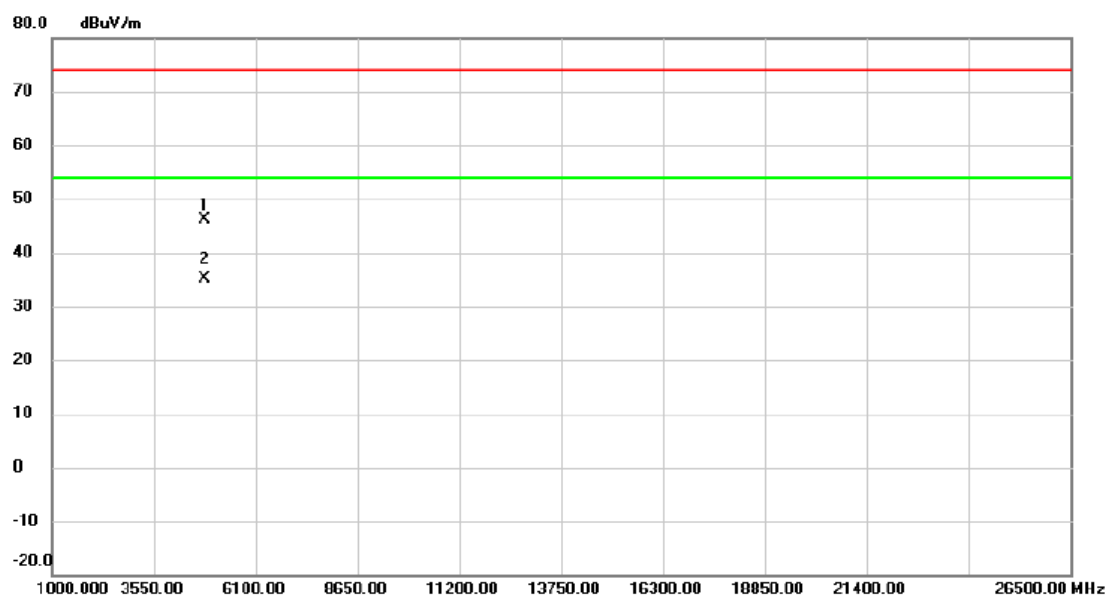
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	55.91	9.00	64.91	74.00	-9.09	peak	
2		2390.000	44.27	9.00	53.27	54.00	-0.73	AVG	
3	X	2414.200	101.30	9.00	110.30	74.00	36.30	peak	No Limit
4	*	2414.300	93.31	9.00	102.31	54.00	48.31	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2417MHz

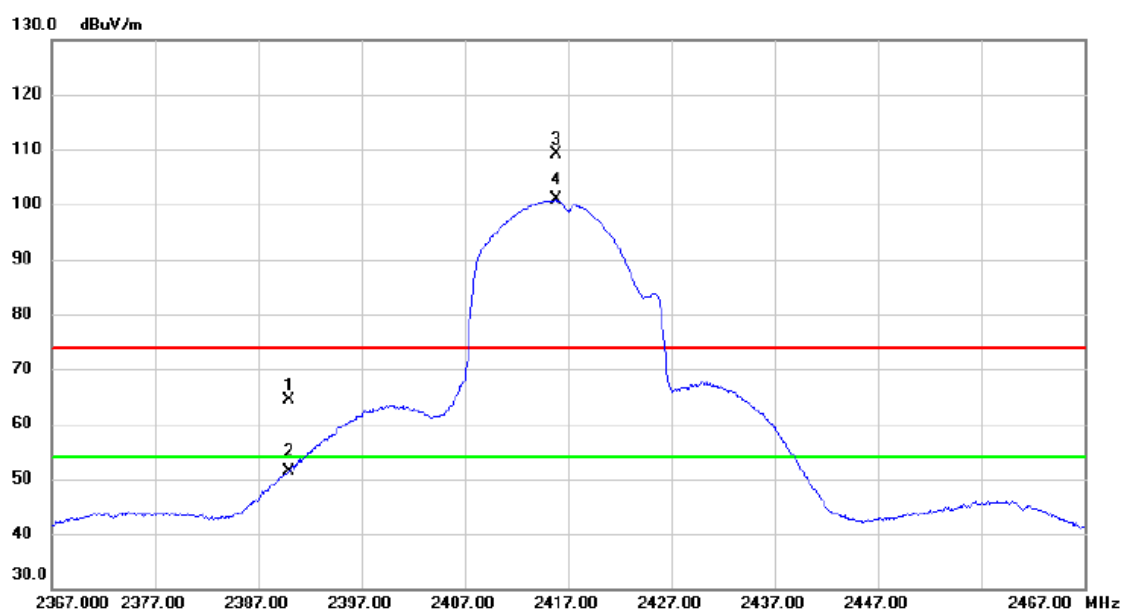
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4834.100	40.24	5.80	46.04	74.00	-27.96	peak	
2	*	4835.550	29.35	5.80	35.15	54.00	-18.85	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2417MHz

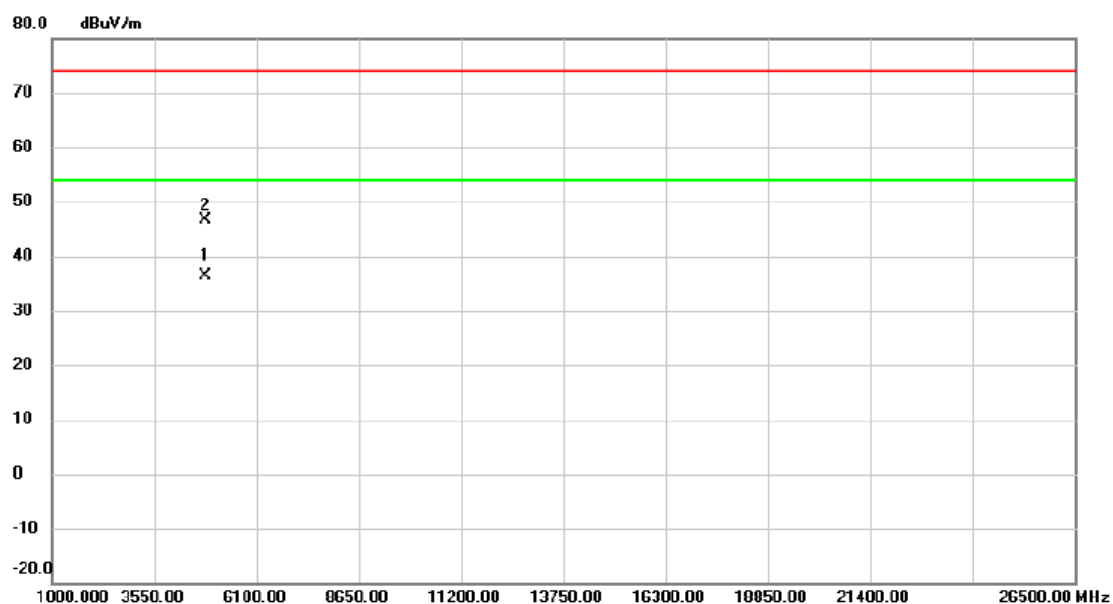
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	55.44	9.00	64.44	74.00	-9.56	peak	
2		2390.000	42.45	9.00	51.45	54.00	-2.55	AVG	
3	X	2415.800	100.14	9.00	109.14	74.00	35.14	peak	No Limit
4	*	2415.800	91.79	9.00	100.79	54.00	46.79	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2417MHz

Horizontal

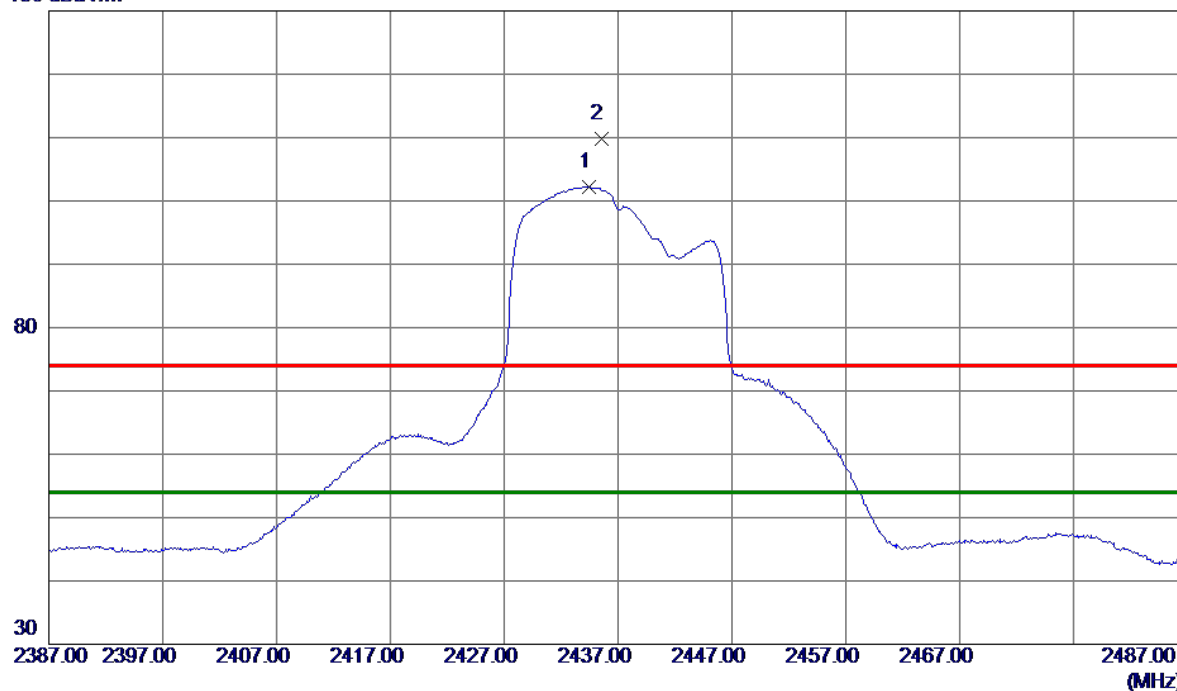


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4833.400	30.58	5.80	36.38	54.00	-17.62	AVG	
2		4835.100	40.91	5.80	46.71	74.00	-27.29	peak	

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

Vertical

130 dBuV/m

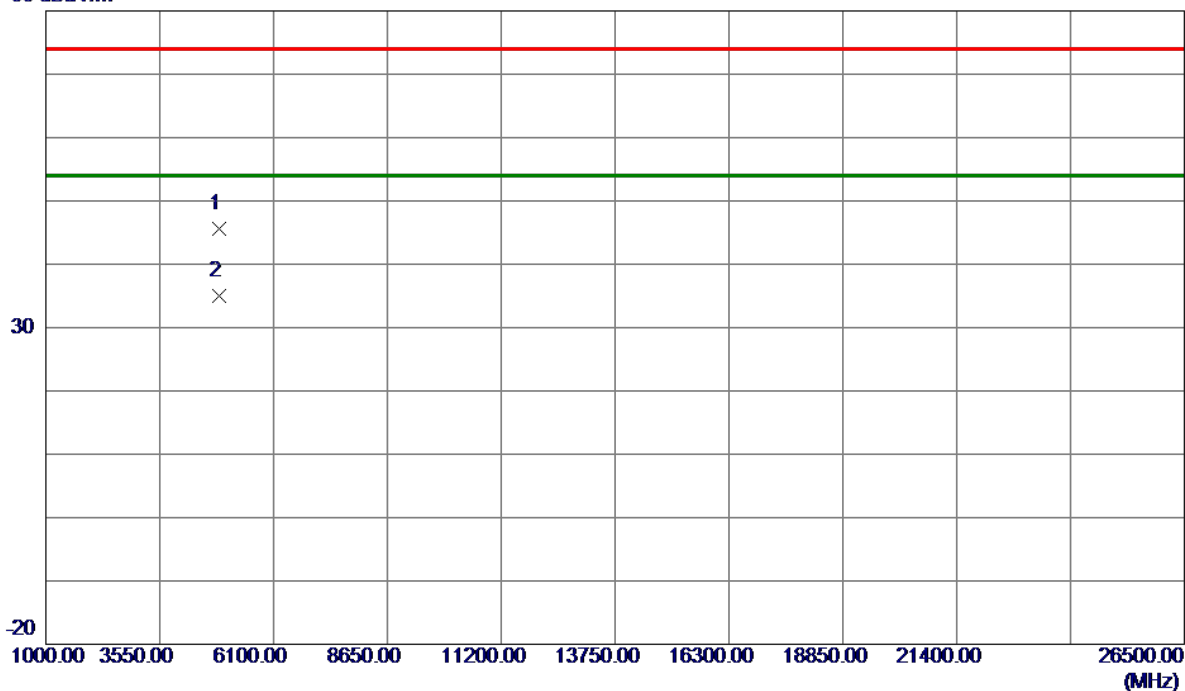


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2434.4000	93.23	8.99	102.22	54.00	48.22	AVG	No Limit
2	2435.5000	100.82	8.99	109.81	74.00	35.81	Peak	No Limit

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

Vertical

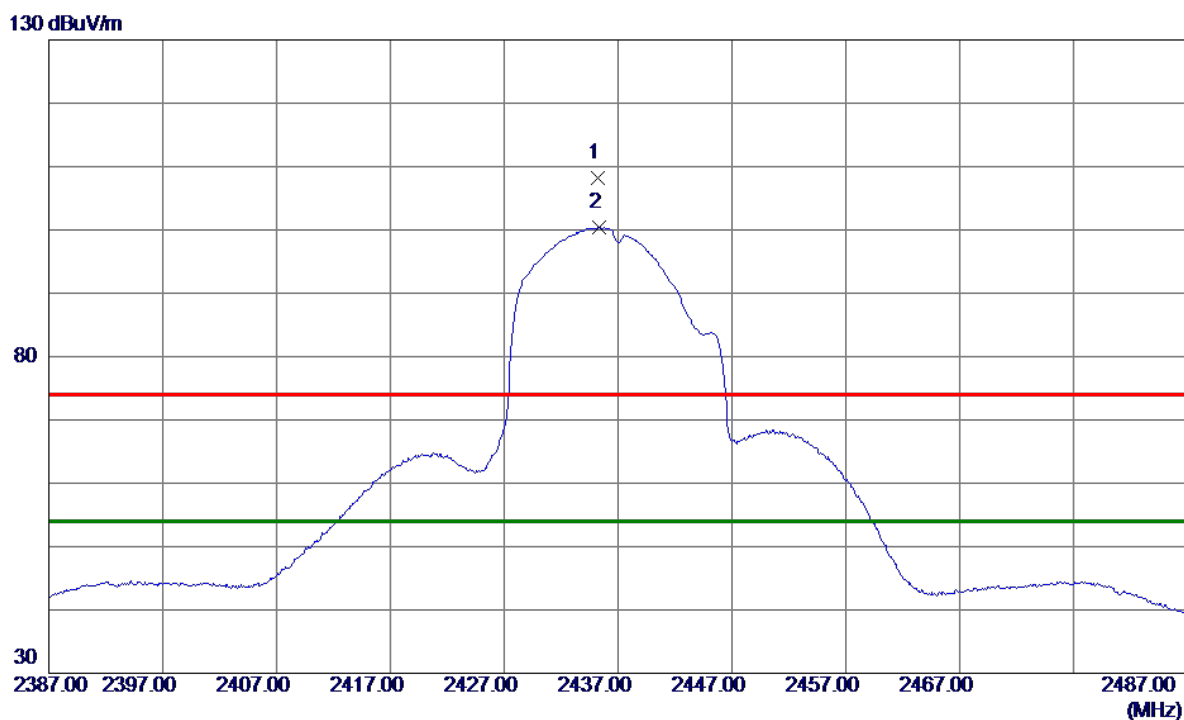
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4872.3500	39.67	5.90	45.57	74.00	-28.43	Peak	
2 *	4874.8000	29.02	5.91	34.93	54.00	-19.07	AVG	

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

Horizontal

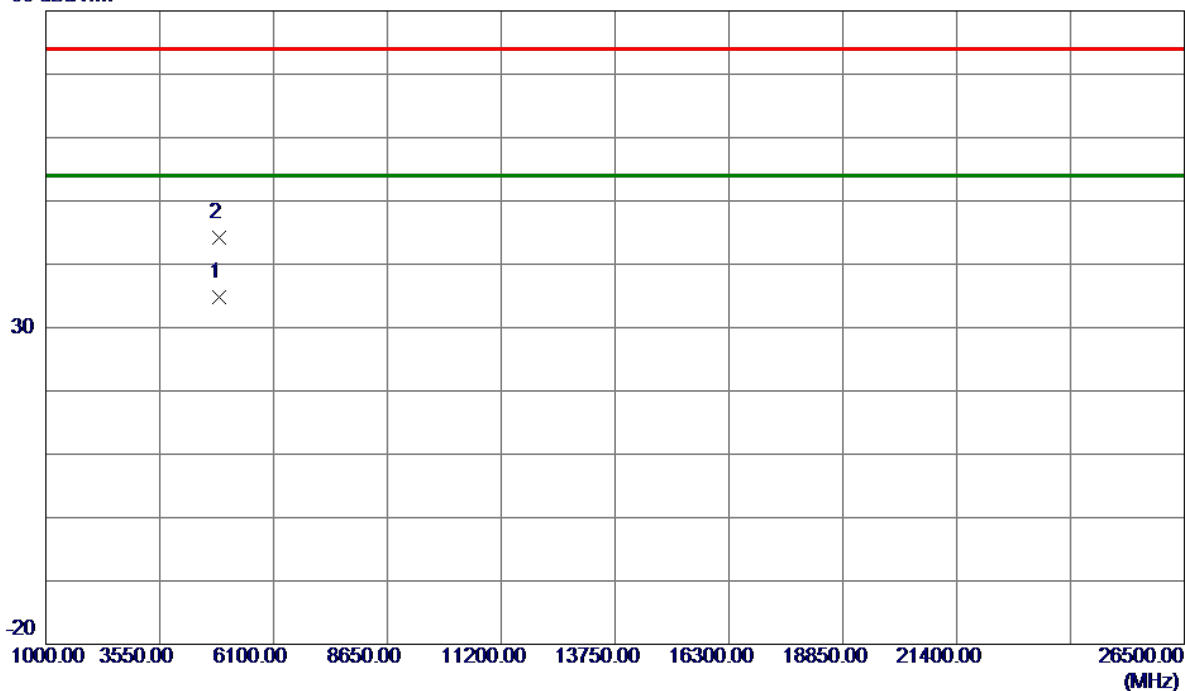


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.2000	99.21	8.99	108.20	74.00	34.20	Peak	No Limit
2 *	2435.3000	91.44	8.99	100.43	54.00	46.43	AVG	No Limit

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

Horizontal

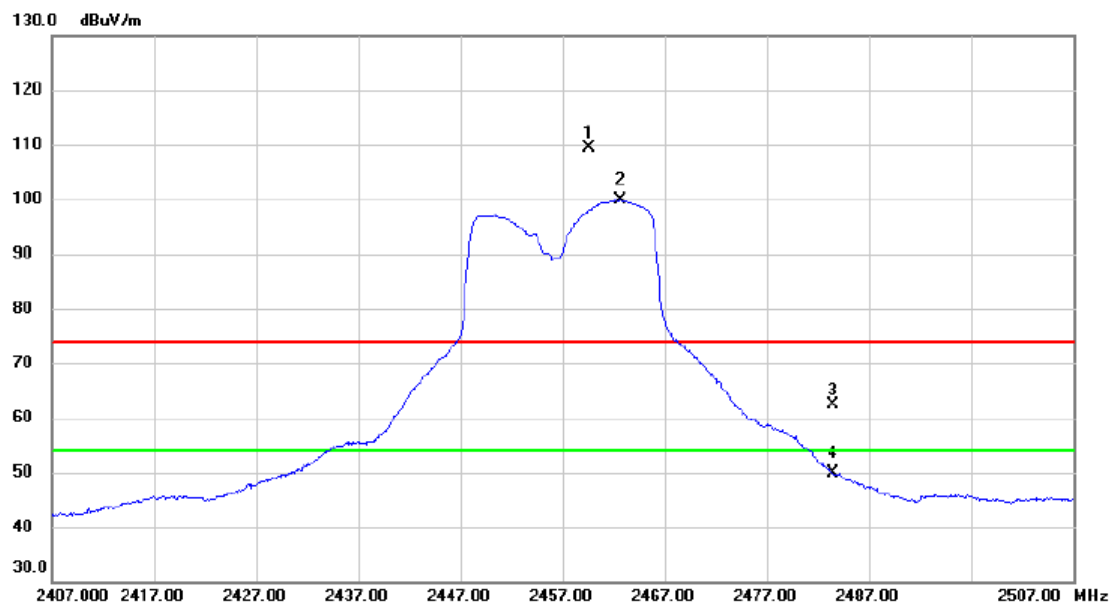
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.5000	28.88	5.90	34.78	54.00	-19.22	AVG	
2	4874.6500	38.30	5.91	44.21	74.00	-29.79	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2457MHz

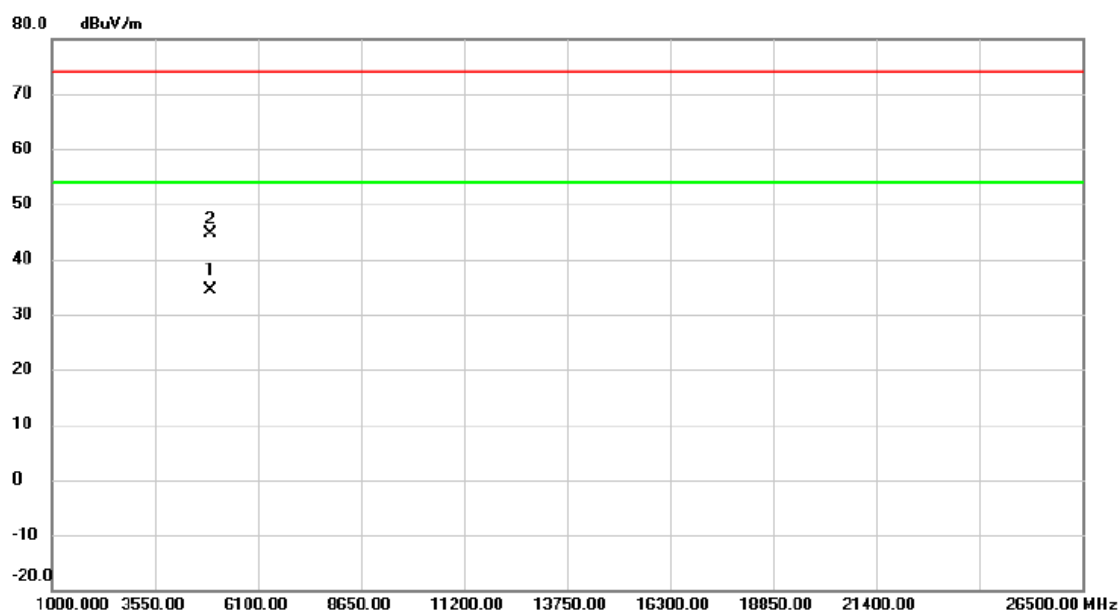
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2459.600	100.42	8.98	109.40	74.00	35.40	peak	No Limit
2	*	2462.700	90.84	8.97	99.81	54.00	45.81	AVG	No Limit
3		2483.500	53.36	8.96	62.32	74.00	-11.68	peak	
4		2483.500	40.90	8.96	49.86	54.00	-4.14	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2457MHz

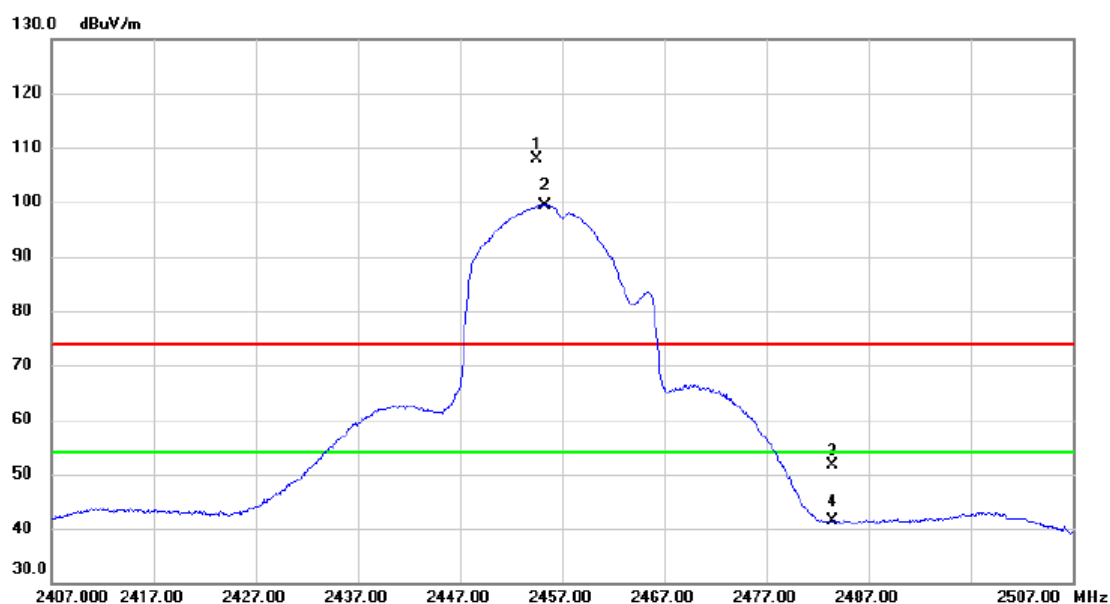
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4915.300	28.39	6.01	34.40	54.00	-19.60	AVG	
2		4916.350	38.67	6.01	44.68	74.00	-29.32	peak	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2457MHz

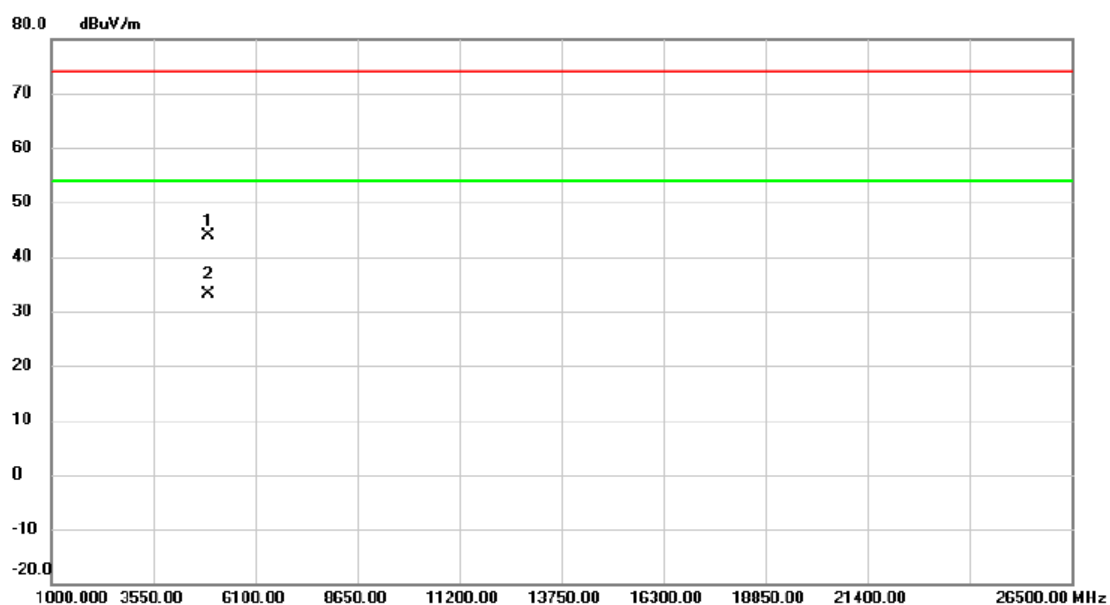
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2454.500	98.91	8.97	107.88	74.00	33.88	peak	No Limit
2	*	2455.300	90.41	8.97	99.38	54.00	45.38	AVG	No Limit
3		2483.500	42.55	8.96	51.51	74.00	-22.49	peak	
4		2483.500	32.40	8.96	41.36	54.00	-12.64	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-20M MODE 2457MHz

Horizontal

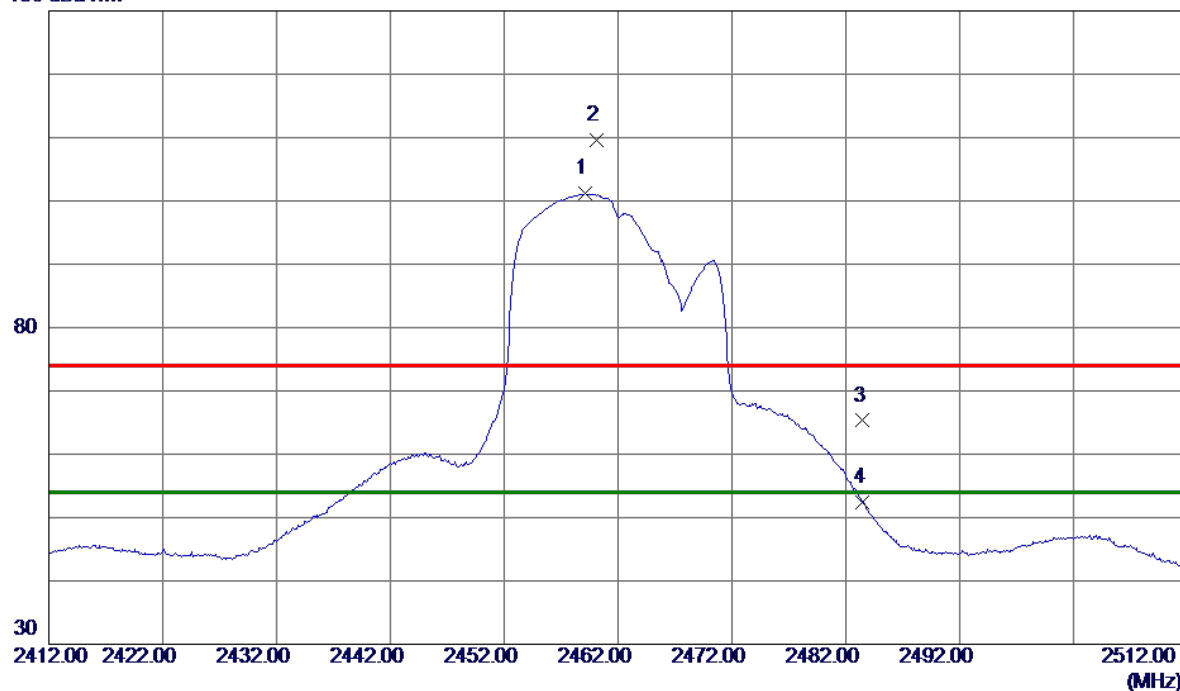


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4913.000	37.83	6.00	43.83	74.00	-30.17	peak	
2	*	4913.050	27.25	6.00	33.25	54.00	-20.75	AVG	

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

Vertical

130 dBuV/m

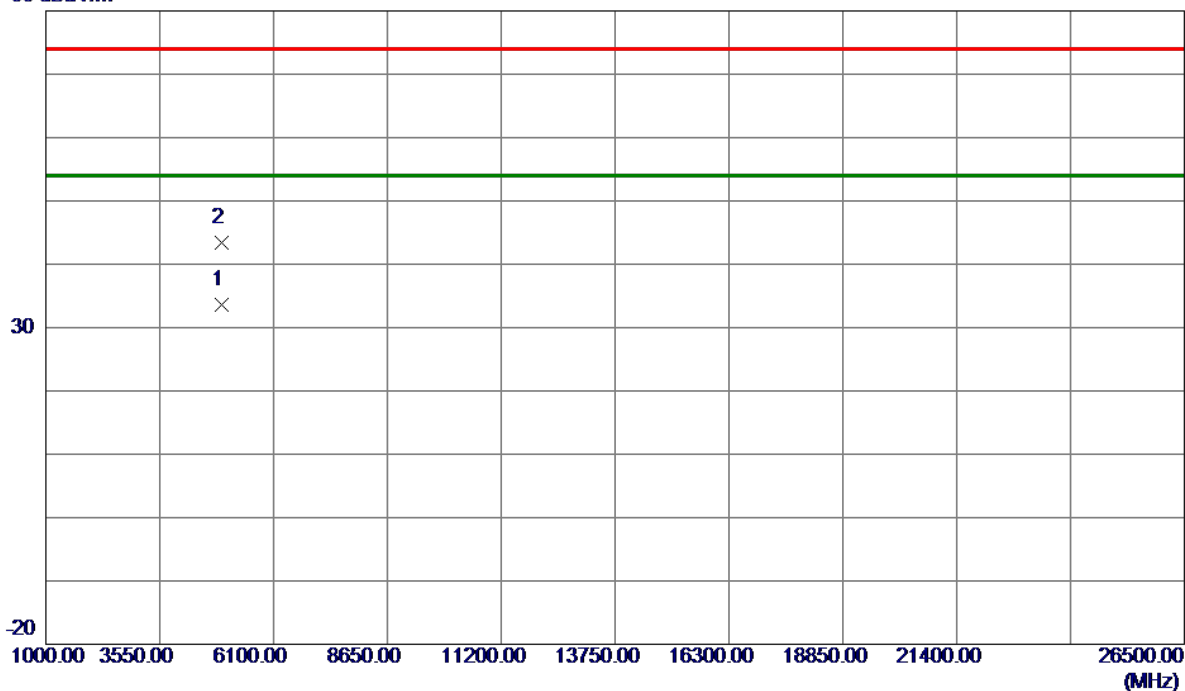


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2459.1000	92.22	8.98	101.20	54.00	47.20	AVG	No Limit
2	2460.1000	100.53	8.98	109.51	74.00	35.51	Peak	No Limit
3	2483.5000	56.33	8.97	65.30	74.00	-8.70	Peak	
4	2483.5000	43.40	8.97	52.37	54.00	-1.63	AVG	

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

Vertical

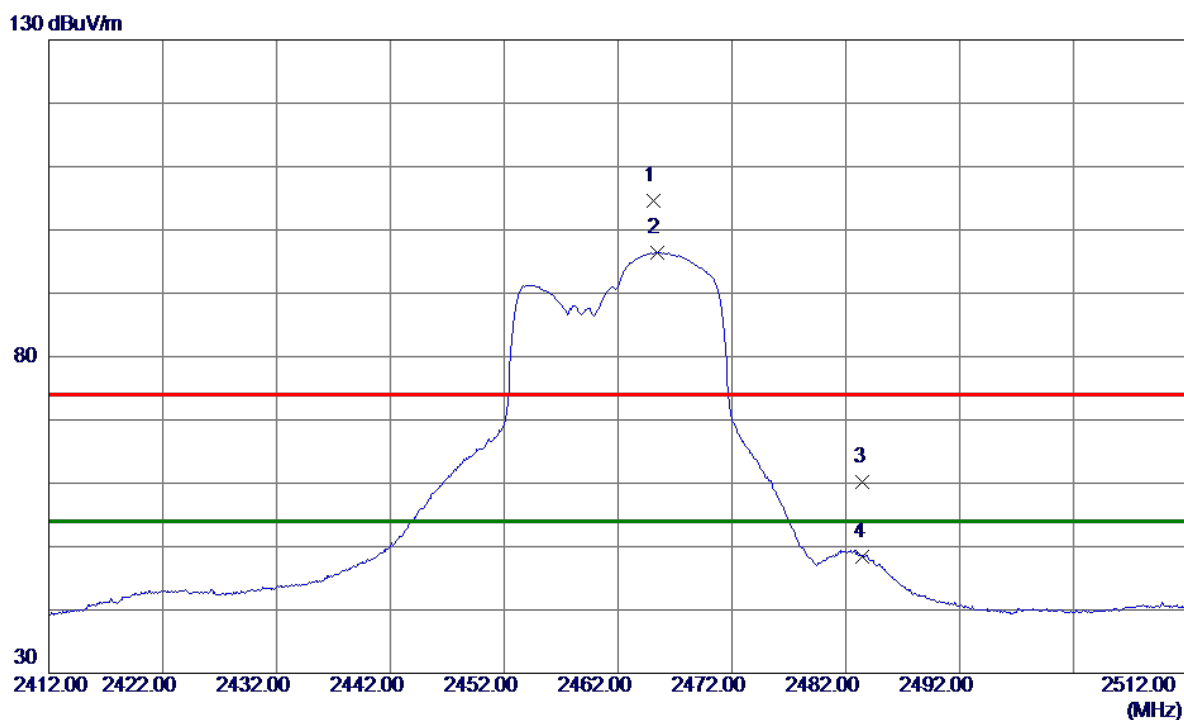
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4924.7500	27.50	6.03	33.53	54.00	-20.47	AVG	
2	4925.3500	37.39	6.03	43.42	74.00	-30.58	Peak	

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

Horizontal

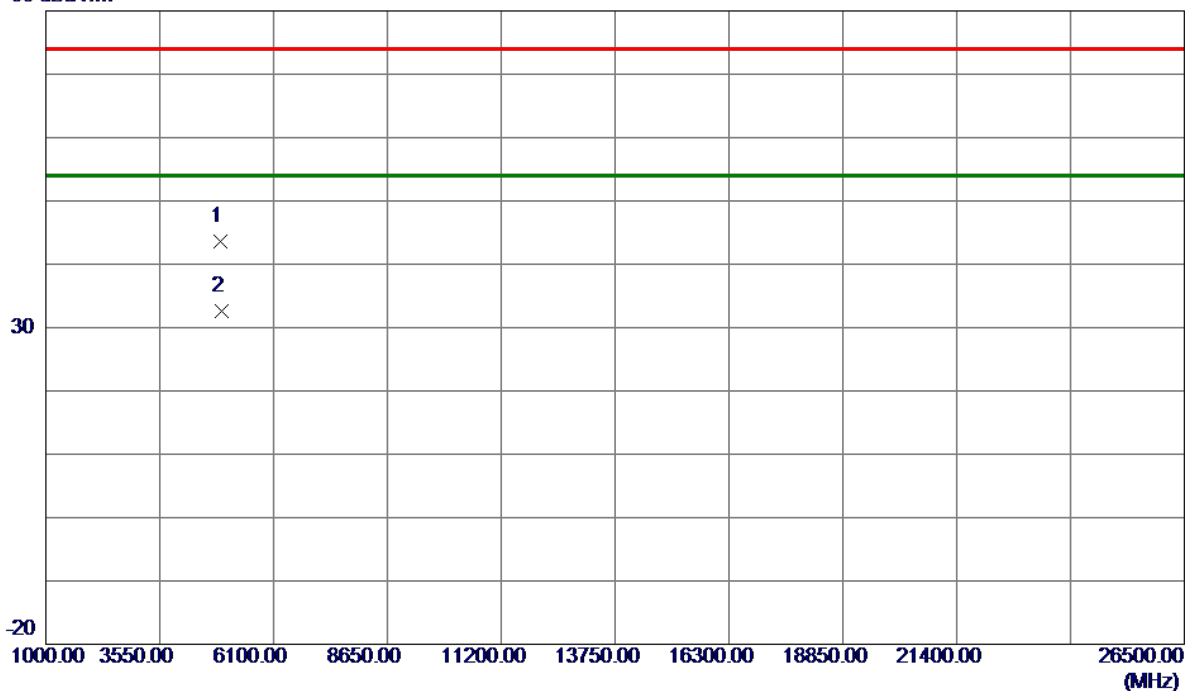


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2465.1000	95.63	8.97	104.60	74.00	30.60	Peak	No Limit
2 *	2465.4000	87.41	8.97	96.38	54.00	42.38	AVG	No Limit
3	2483.5000	51.15	8.97	60.12	74.00	-13.88	Peak	
4	2483.5000	39.46	8.97	48.43	54.00	-5.57	AVG	

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

Horizontal

80 dBuV/m

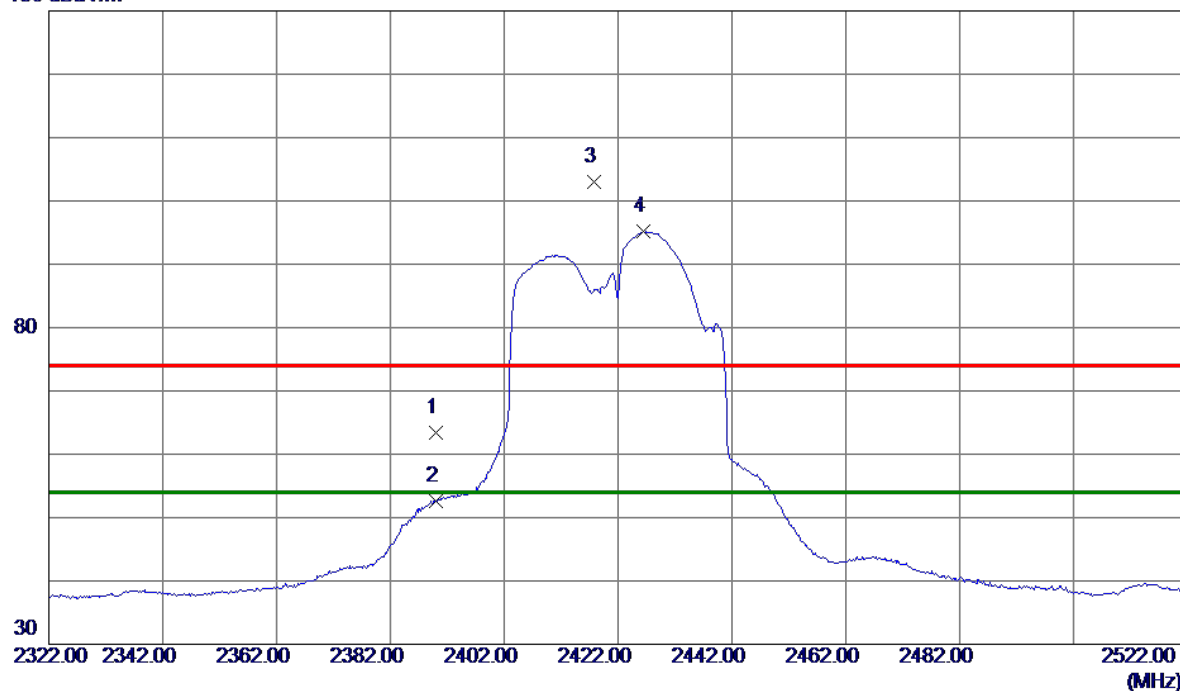


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4923.6000	37.55	6.03	43.58	74.00	-30.42	Peak	
2 *	4924.3000	26.61	6.03	32.64	54.00	-21.36	AVG	

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

Vertical

130 dBuV/m

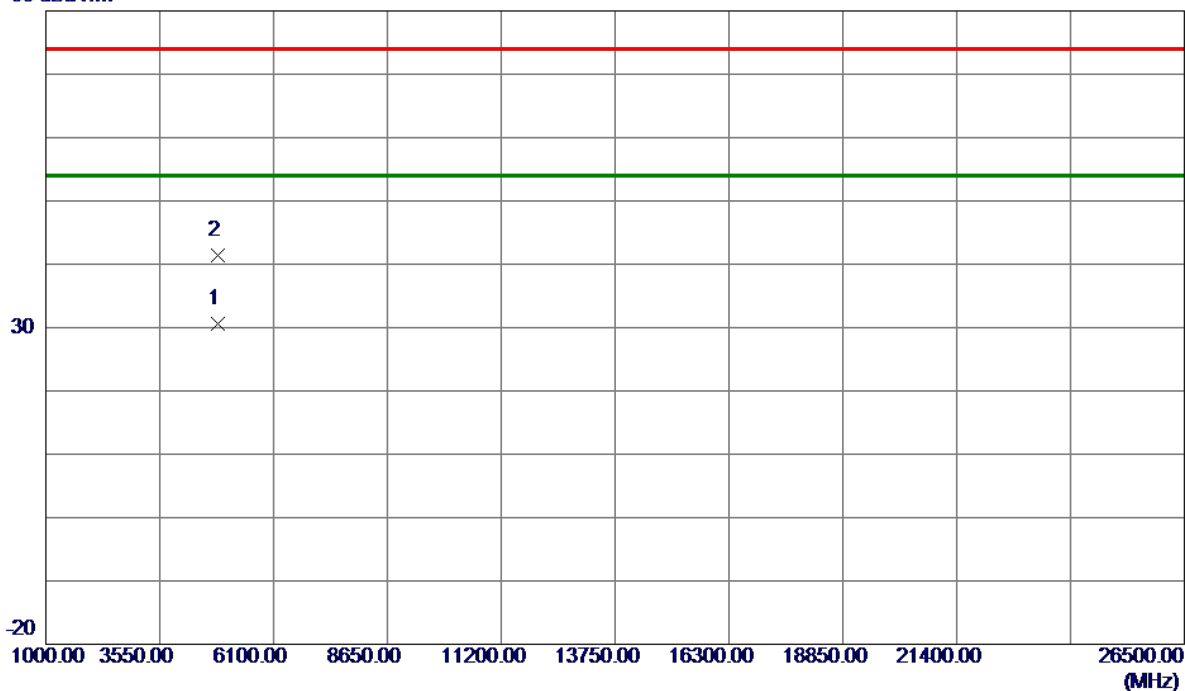


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	54.31	9.00	63.31	74.00	-10.69	Peak	
2	2390.0000	43.52	9.00	52.52	54.00	-1.48	AVG	
3	2417.8000	93.97	8.99	102.96	74.00	28.96	Peak	No Limit
4 *	2426.4000	86.23	8.99	95.22	54.00	41.22	AVG	No Limit

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

Vertical

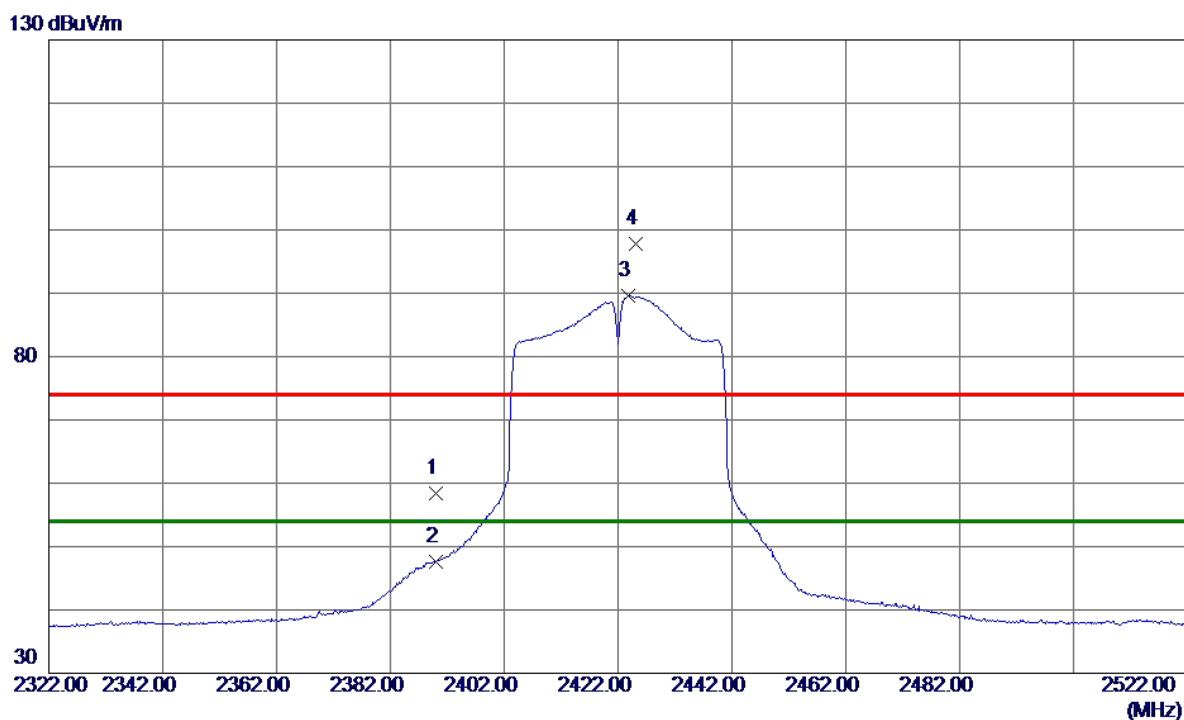
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4844.0500	24.77	5.83	30.60	54.00	-23.40	AVG	
2	4844.1000	35.62	5.83	41.45	74.00	-32.55	Peak	

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

Horizontal

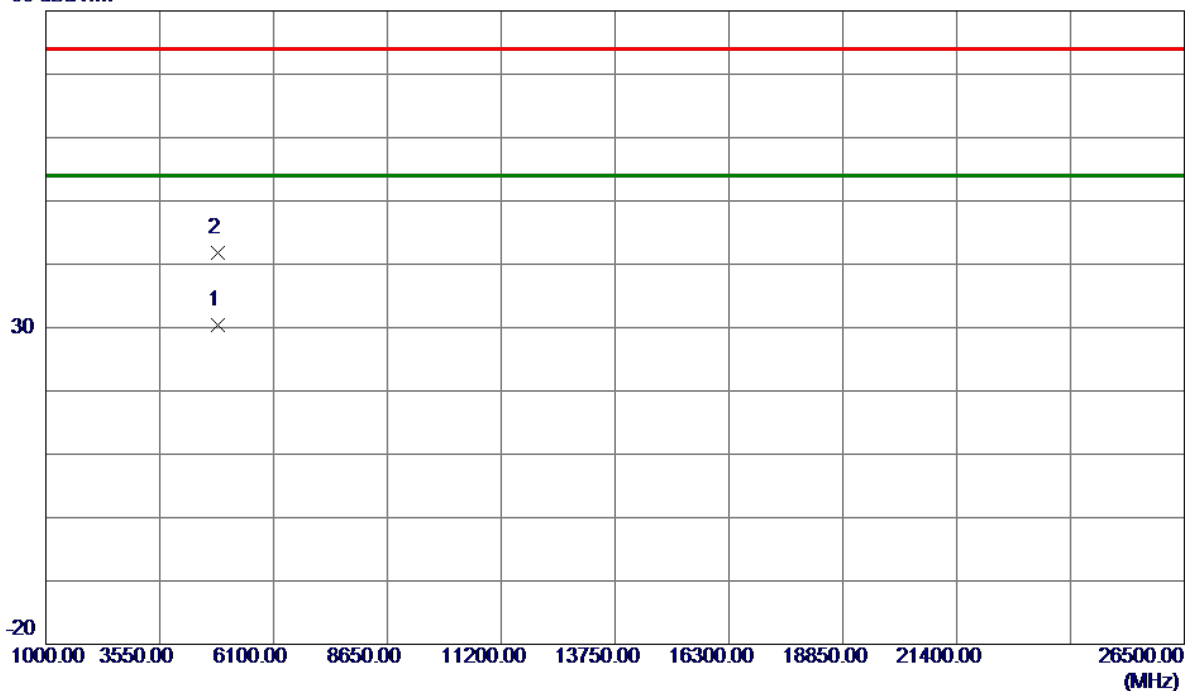


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	49.48	9.00	58.48	74.00	-15.52	Peak	
2	2390.0000	38.65	9.00	47.65	54.00	-6.35	AVG	
3 *	2423.8000	80.58	8.99	89.57	54.00	35.57	AVG	No Limit
4	2425.2000	88.83	8.99	97.82	74.00	23.82	Peak	No Limit

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

Horizontal

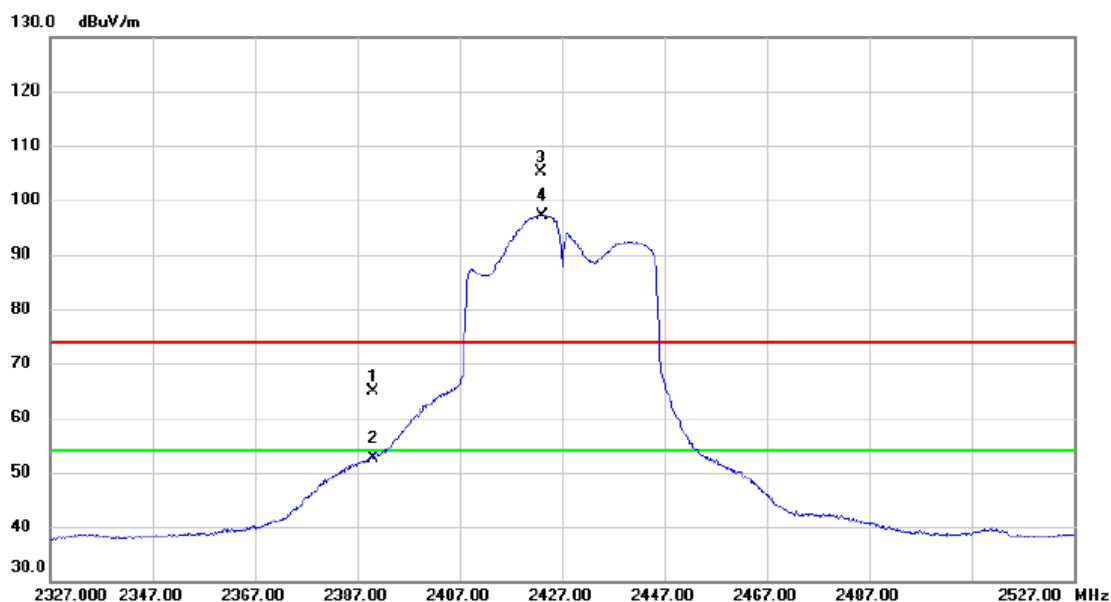
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4842.7000	24.57	5.83	30.40	54.00	-23.60	AVG	
2	4848.3000	35.87	5.84	41.71	74.00	-32.29	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2427MHz

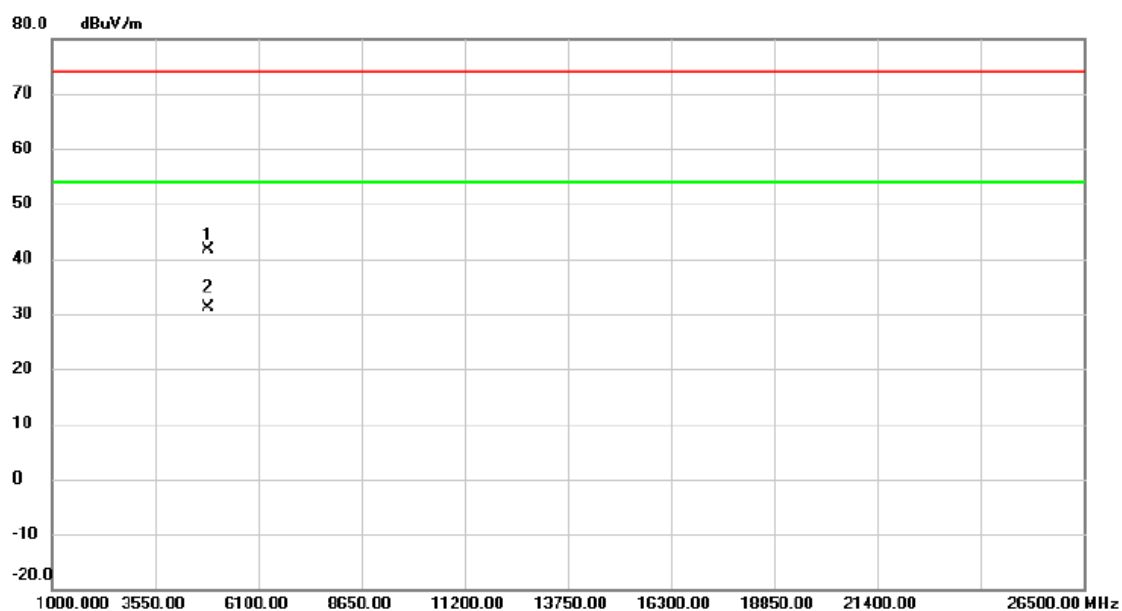
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	55.78	9.00	64.78	74.00	-9.22	peak	
2		2390.000	43.58	9.00	52.58	54.00	-1.42	AVG	
3	X	2422.800	96.02	9.00	105.02	74.00	31.02	peak	No Limit
4	*	2423.000	88.18	9.00	97.18	54.00	43.18	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2427MHz

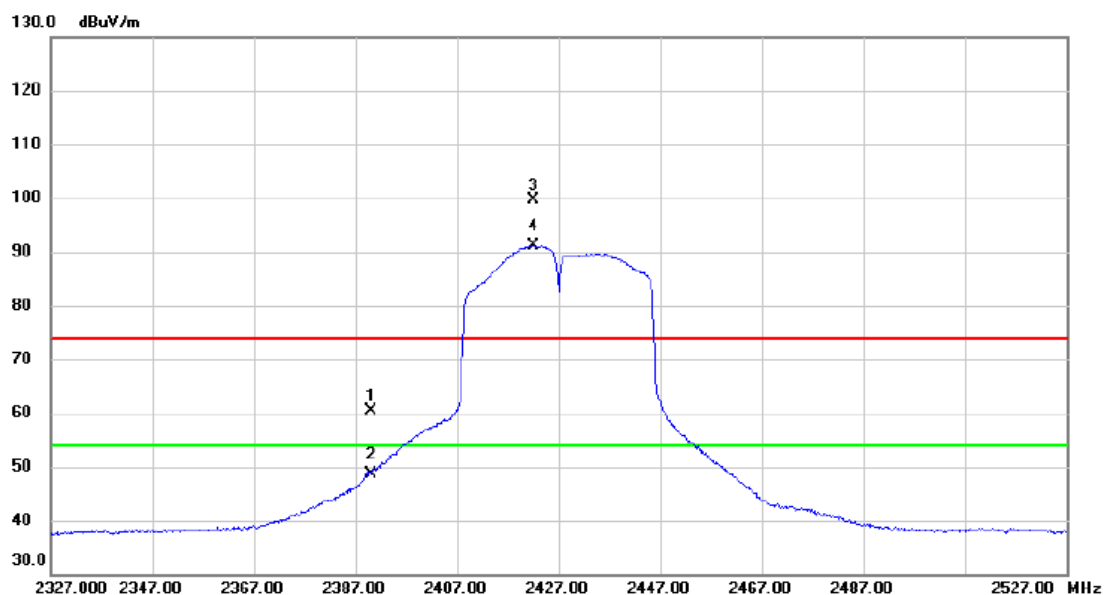
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4854.800	35.70	5.86	41.56	74.00	-32.44	peak	
2	*	4856.000	25.30	5.86	31.16	54.00	-22.84	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2427MHz

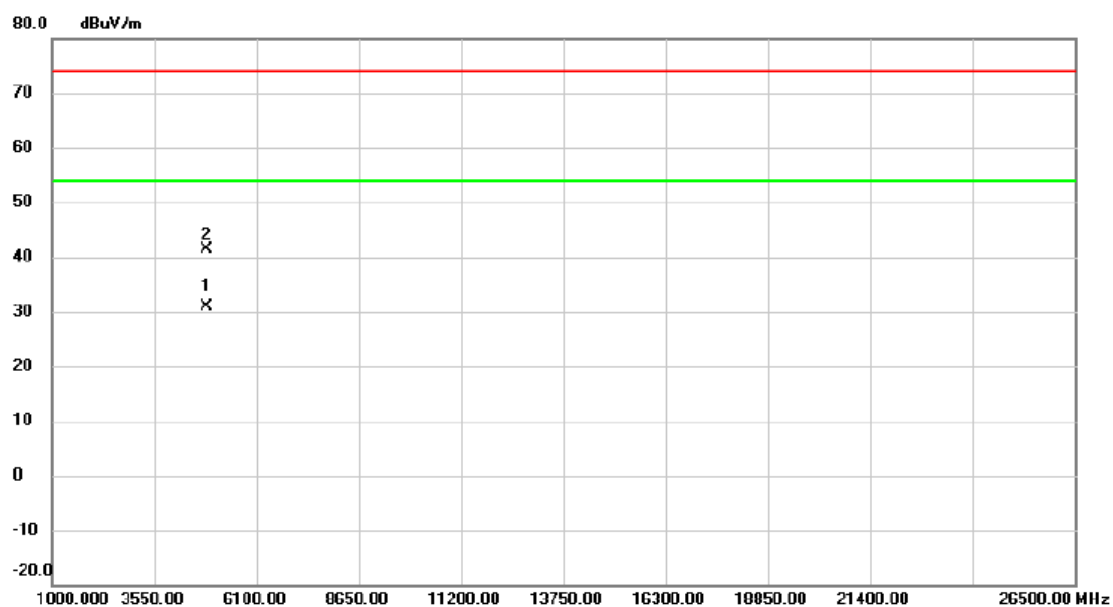
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	51.37	9.00	60.37	74.00	-13.63	peak	
2		2390.000	39.66	9.00	48.66	54.00	-5.34	AVG	
3	X	2422.200	90.63	8.99	99.62	74.00	25.62	peak	No Limit
4	*	2422.200	82.21	8.99	91.20	54.00	37.20	AVG	No Limit

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2427MHz

Horizontal

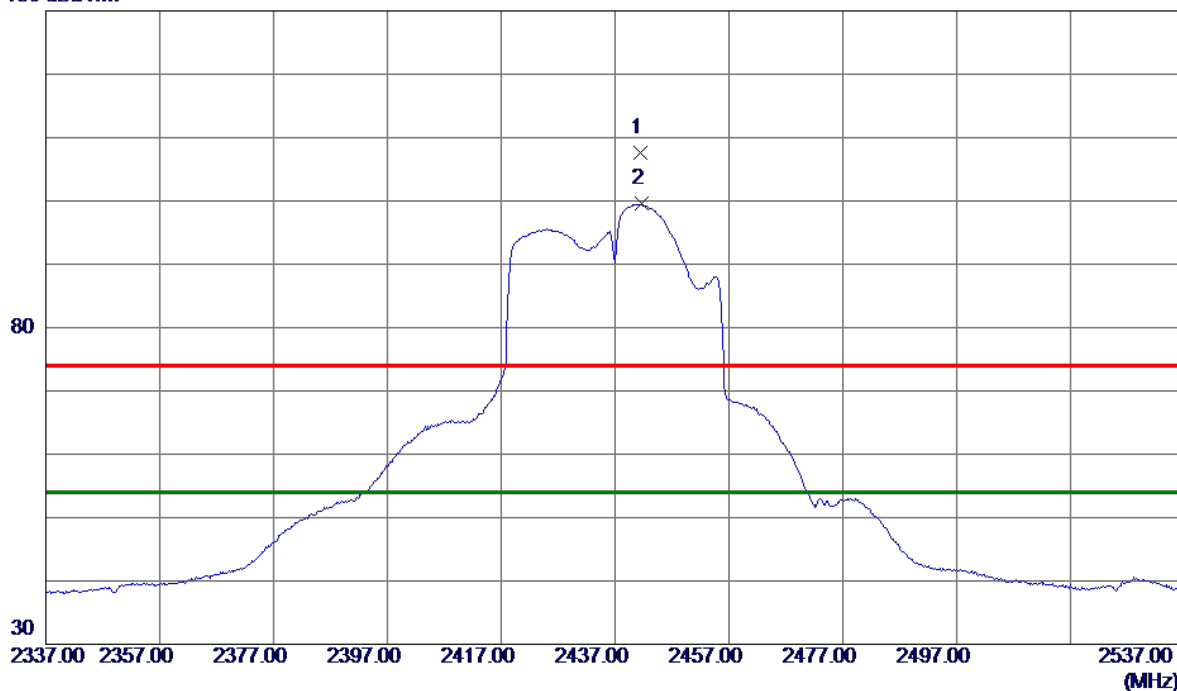


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4854.300	24.96	5.86	30.82	54.00	-23.18	AVG	
2		4858.900	35.38	5.88	41.26	74.00	-32.74	peak	

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

Vertical

130 dBuV/m

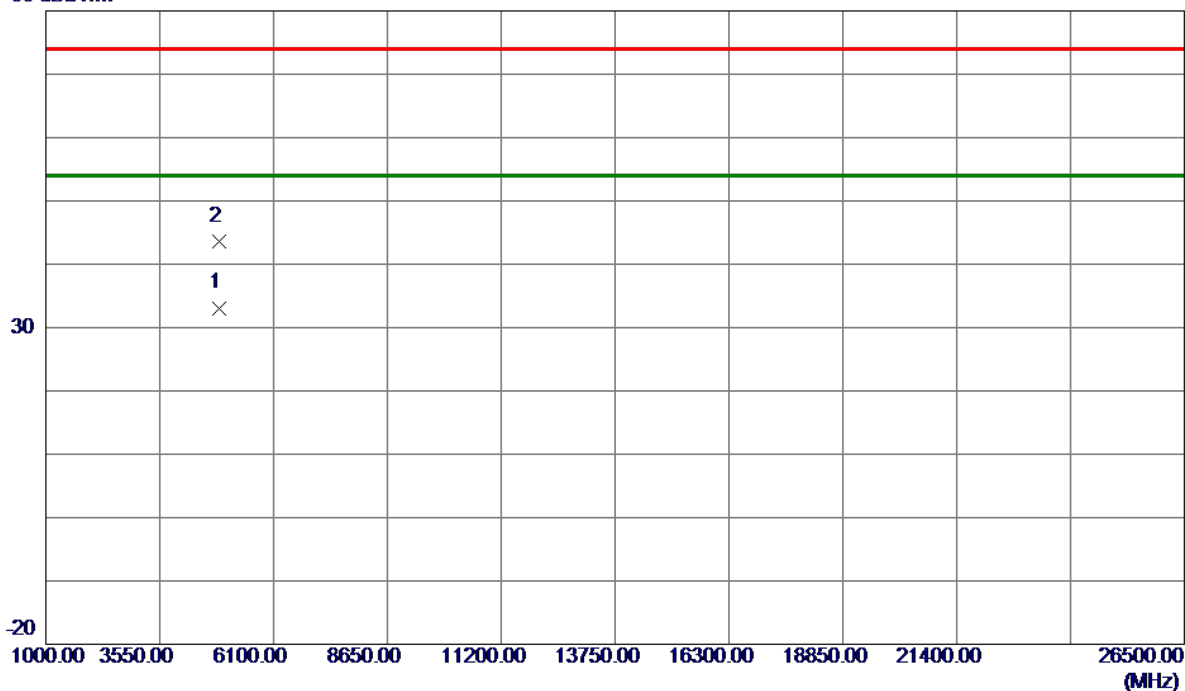


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2441.4000	98.69	8.98	107.67	74.00	33.67	Peak	No Limit
2 *	2441.6000	90.54	8.98	99.52	54.00	45.52	AVG	No Limit

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

Vertical

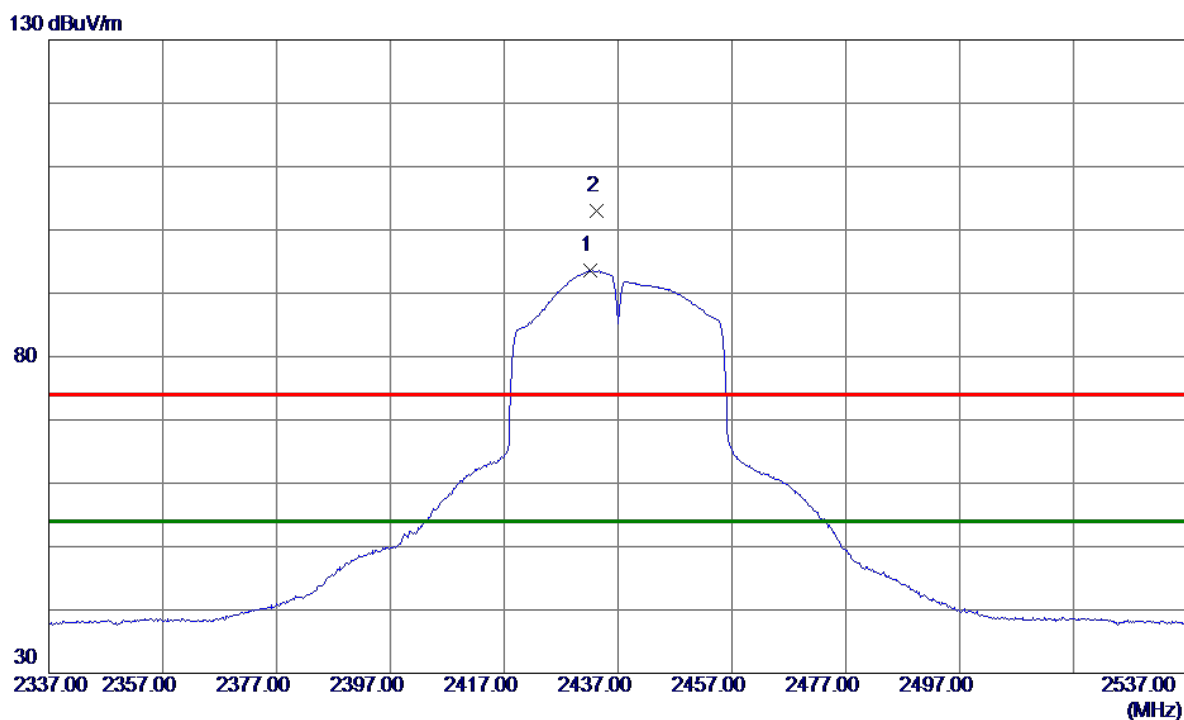
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4873.8500	27.20	5.90	33.10	54.00	-20.90	AVG	
2	4874.8500	37.69	5.91	43.60	74.00	-30.40	Peak	

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

Horizontal

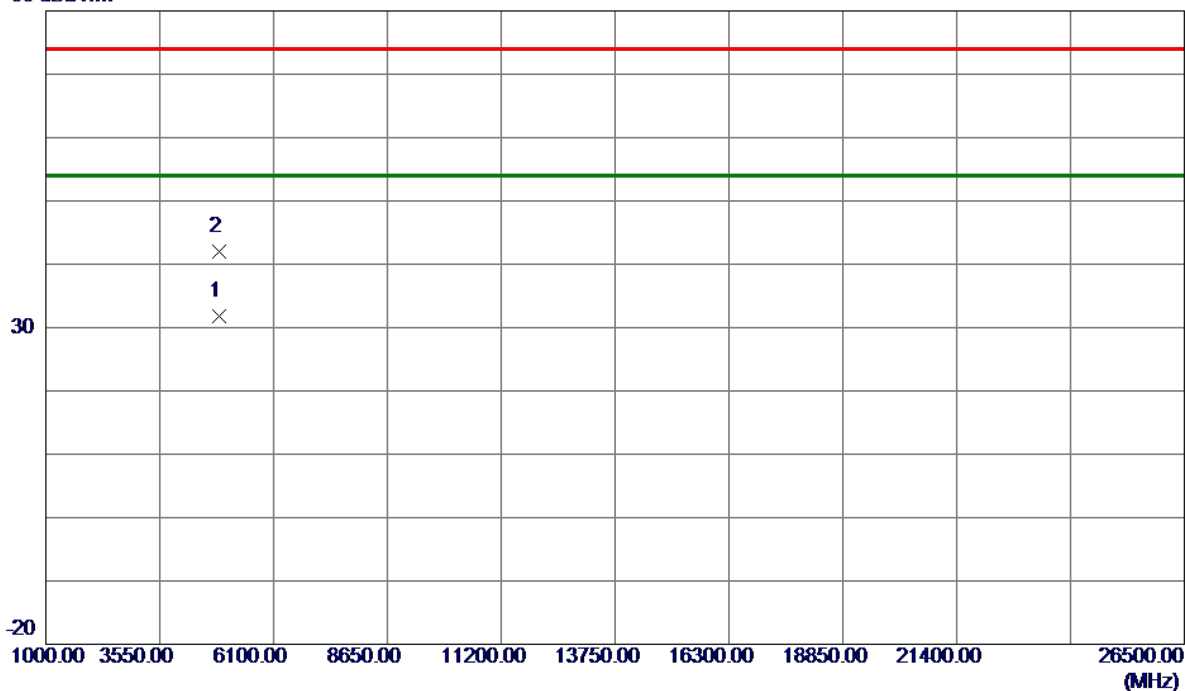


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2432.2000	84.59	8.99	93.58	54.00	39.58	AVG	No Limit
2	2433.2000	94.10	8.99	103.09	74.00	29.09	Peak	No Limit

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

Horizontal

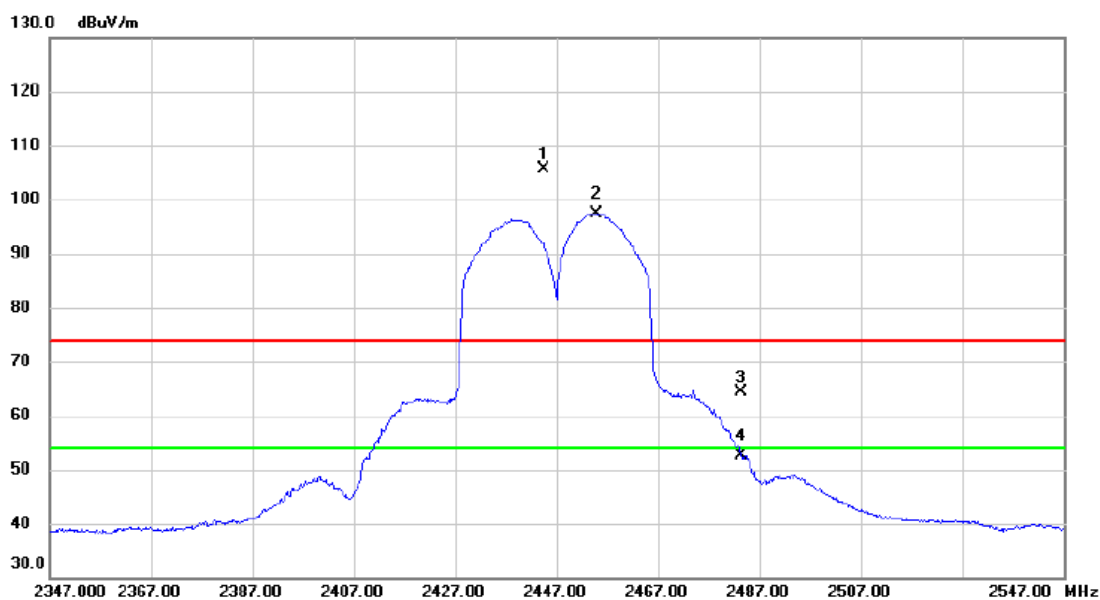
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.5000	25.94	5.91	31.85	54.00	-22.15	AVG	
2	4874.6000	36.17	5.91	42.08	74.00	-31.92	Peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2447MHz

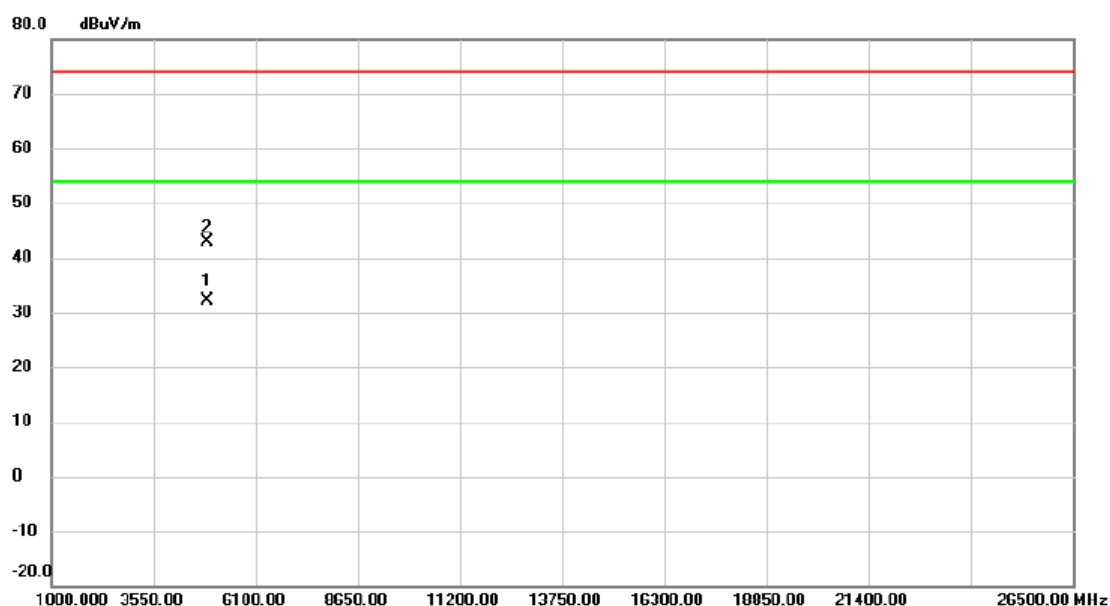
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2444.400	96.52	8.99	105.51	74.00	31.51	peak	No Limit
2	*	2454.800	88.51	8.97	97.48	54.00	43.48	AVG	No Limit
3		2483.500	55.33	8.96	64.29	74.00	-9.71	peak	
4		2483.500	43.78	8.96	52.74	54.00	-1.26	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2447MHz

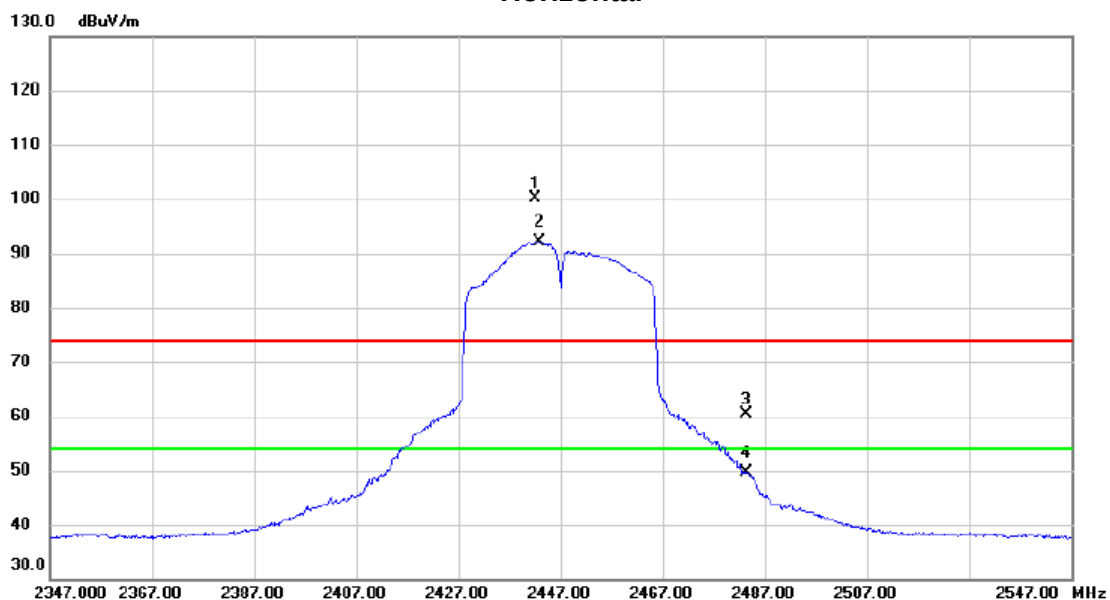
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4894.800	26.19	5.96	32.15	54.00	-21.85	AVG	
2		4897.200	36.96	5.96	42.92	74.00	-31.08	peak	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2447MHz

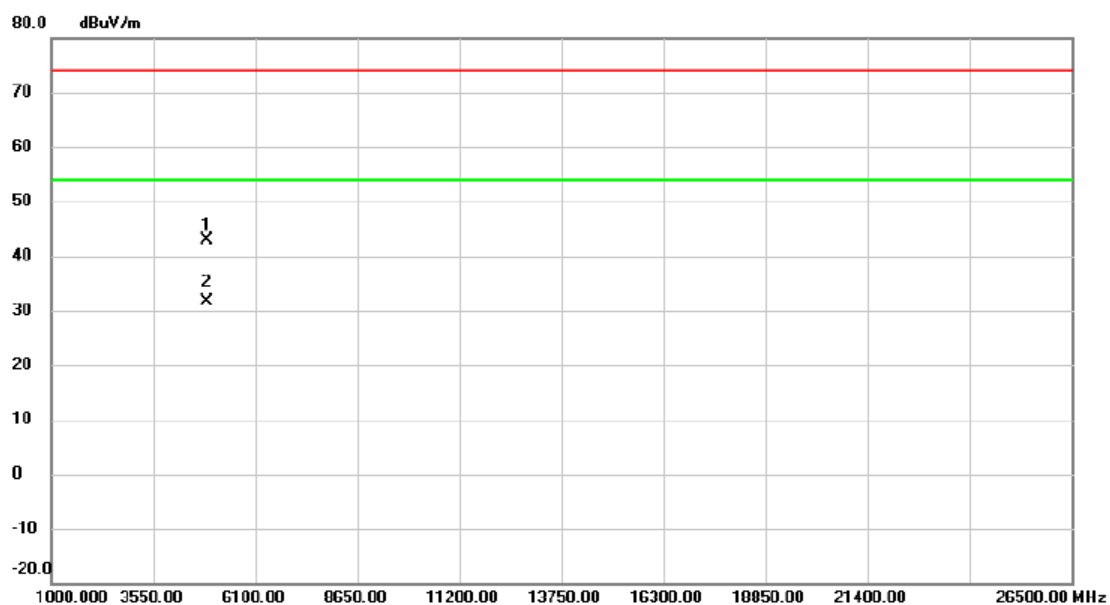
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2442.200	91.04	8.99	100.03	74.00	26.03	peak	No Limit
2	*	2442.800	83.07	8.99	92.06	54.00	38.06	AVG	No Limit
3		2483.500	51.36	8.96	60.32	74.00	-13.68	peak	
4		2483.500	40.72	8.96	49.68	54.00	-4.32	AVG	

Orthogonal Axis :	X
Test Mode :	TX N-40M MODE 2447MHz

Horizontal

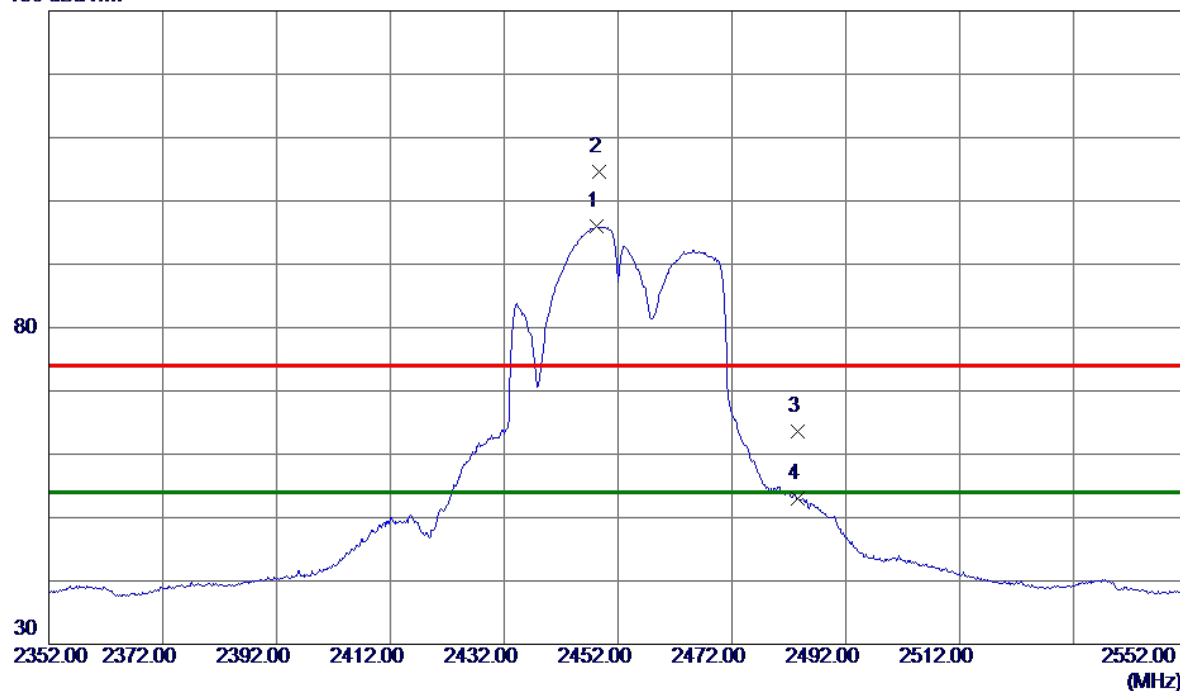


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4888.500	36.90	5.94	42.84	74.00	-31.16	peak	
2	*	4893.300	25.56	5.96	31.52	54.00	-22.48	AVG	

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

Vertical

130 dBuV/m

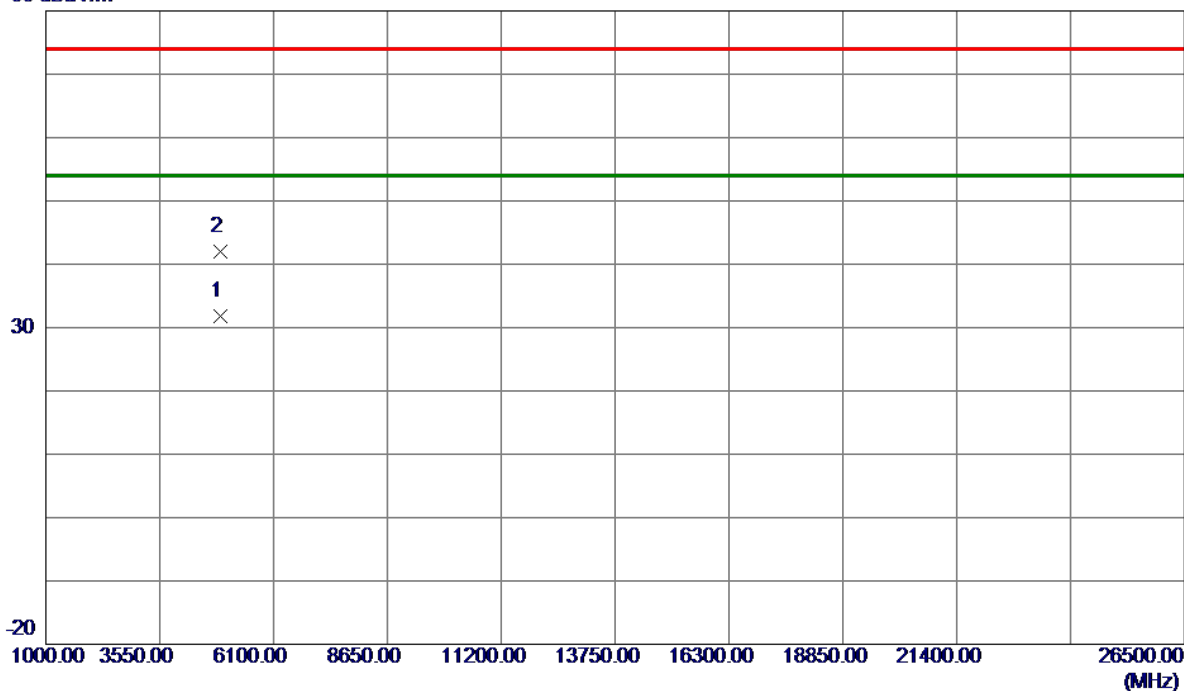


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2448.2000	86.99	8.98	95.97	54.00	41.97	AVG	No Limit
2	2448.6000	95.67	8.98	104.65	74.00	30.65	Peak	No Limit
3	2483.5000	54.71	8.97	63.68	74.00	-10.32	Peak	
4	2483.5000	43.98	8.97	52.95	54.00	-1.05	AVG	

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

Vertical

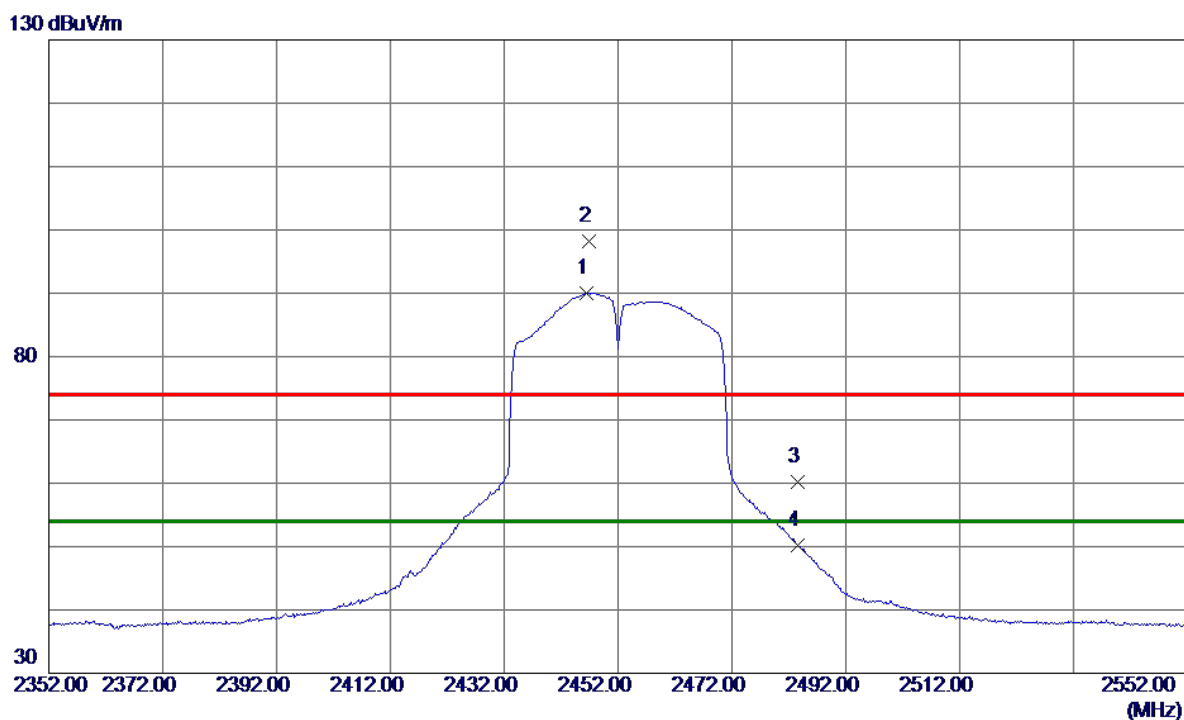
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4903.4000	25.91	5.98	31.89	54.00	-22.11	AVG	
2	4908.8000	36.09	5.99	42.08	74.00	-31.92	Peak	

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

Horizontal

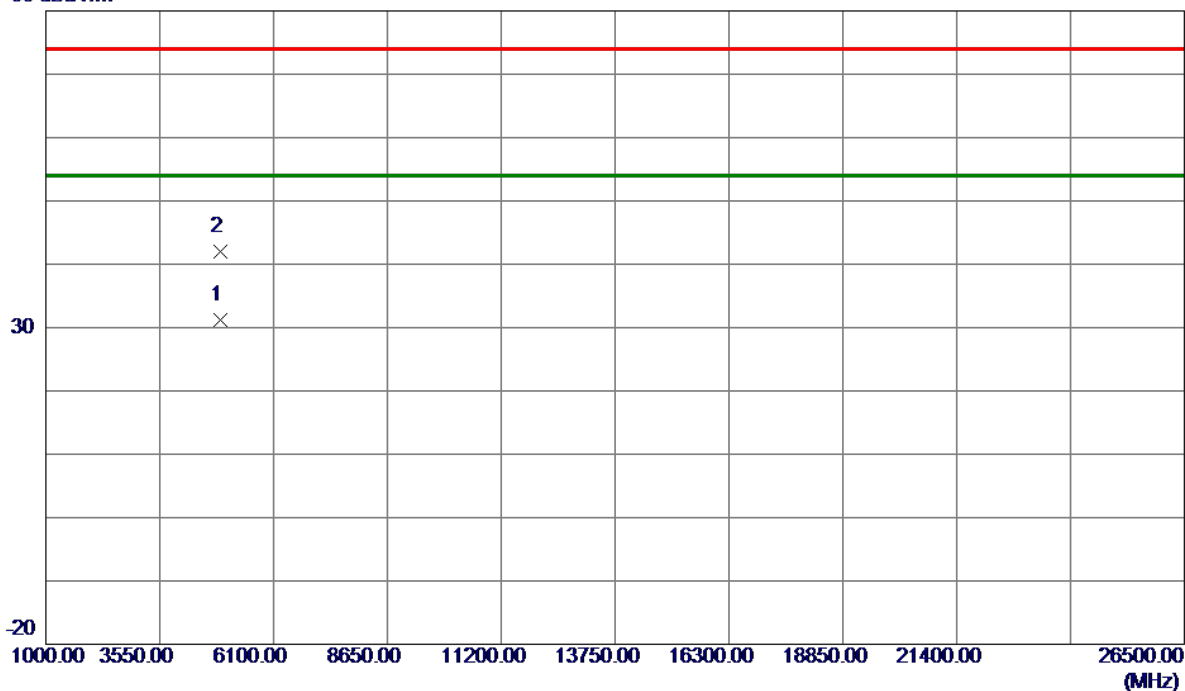


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2446.4000	81.02	8.98	90.00	54.00	36.00	AVG	No Limit
2	2446.8000	89.29	8.98	98.27	74.00	24.27	Peak	No Limit
3	2483.5000	51.16	8.97	60.13	74.00	-13.87	Peak	
4	2483.5000	41.26	8.97	50.23	54.00	-3.77	AVG	

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

Horizontal

80 dBuV/m



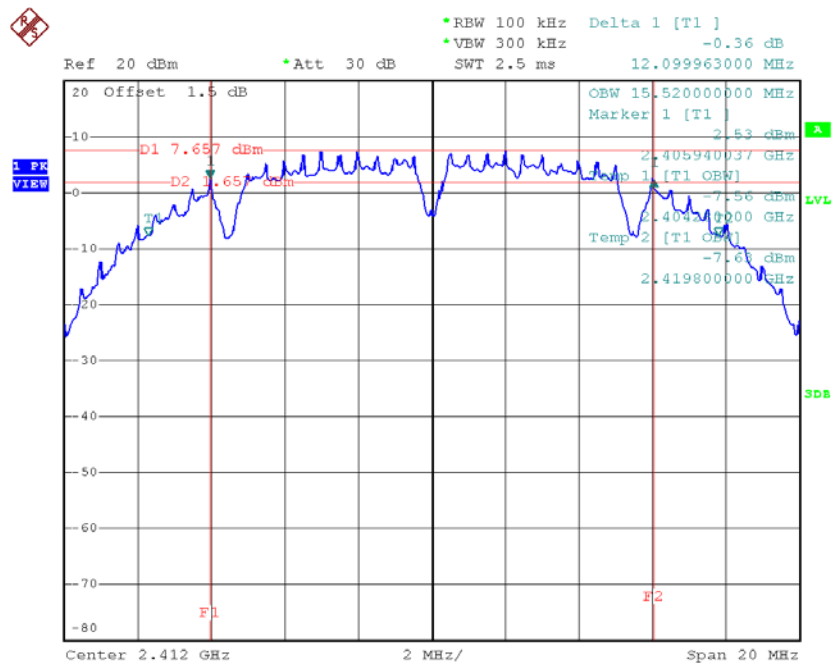
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4908.7000	25.12	5.99	31.11	54.00	-22.89	AVG	
2	4909.6000	36.00	5.99	41.99	74.00	-32.01	Peak	

APPENDIX E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

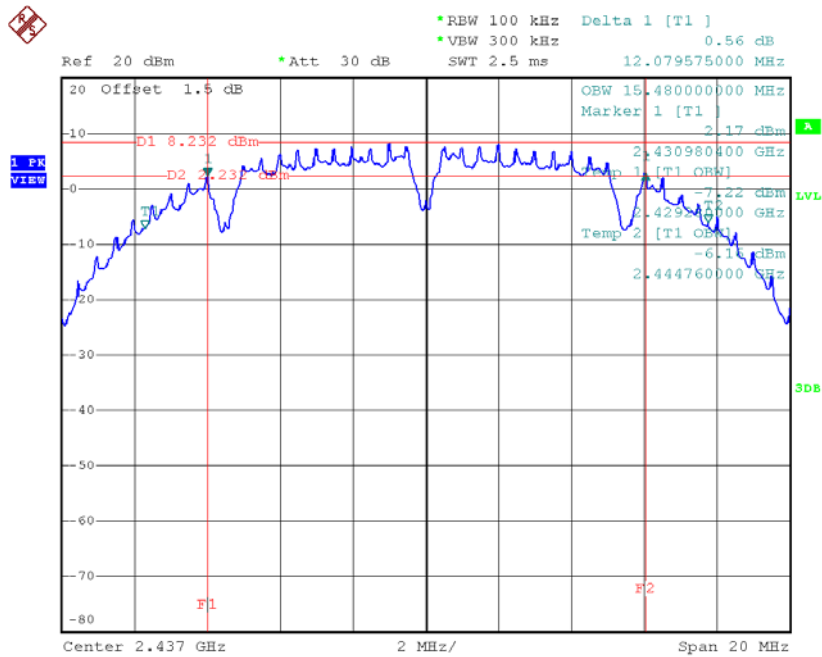
Frequency (MHz)	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
2412	12.10	500	Complies
2437	12.08	500	Complies
2462	12.07	500	Complies

TX CH01



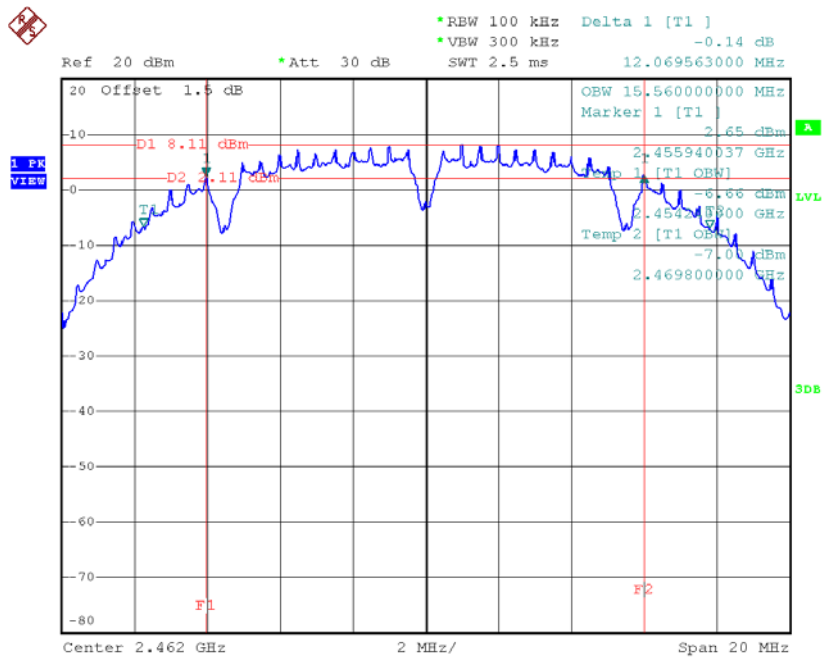
Date: 11.JUN.2018 16:38:53

TX CH06



Date: 11.JUN.2018 16:44:15

TX CH11

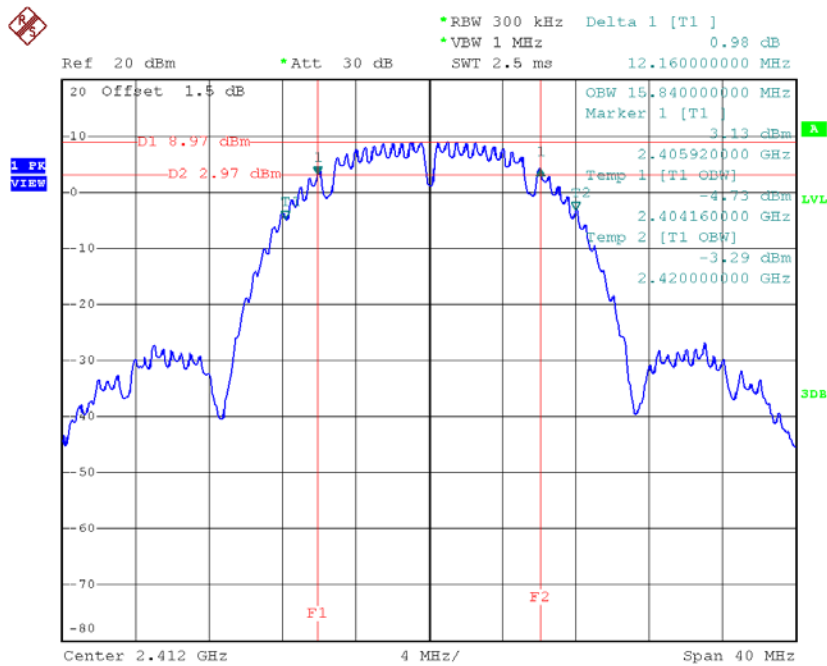


Date: 11.JUN.2018 16:48:36

Test Mode : TX B Mode_CH01/06/11

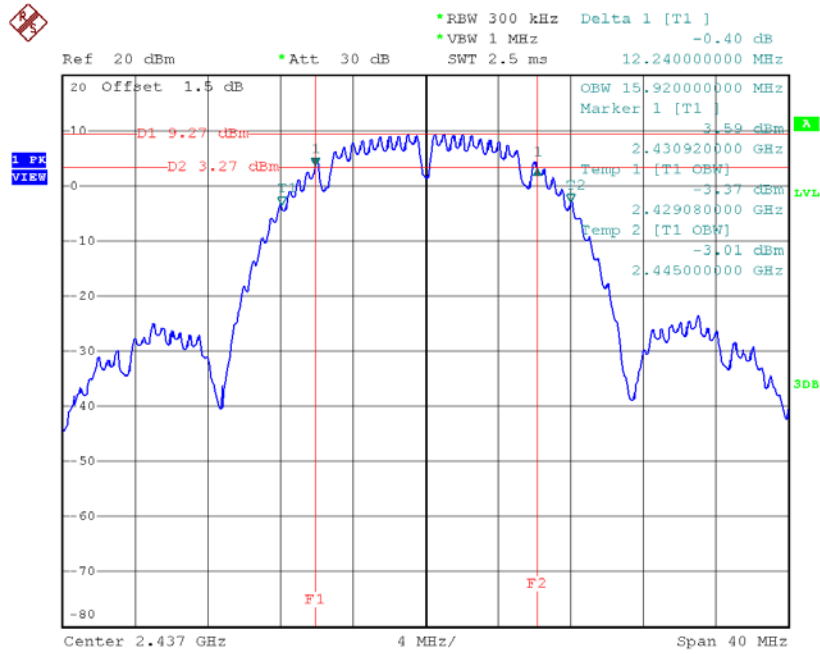
Frequency (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.84	500	Complies
2437	15.92	500	Complies
2462	15.76	500	Complies

TX CH01



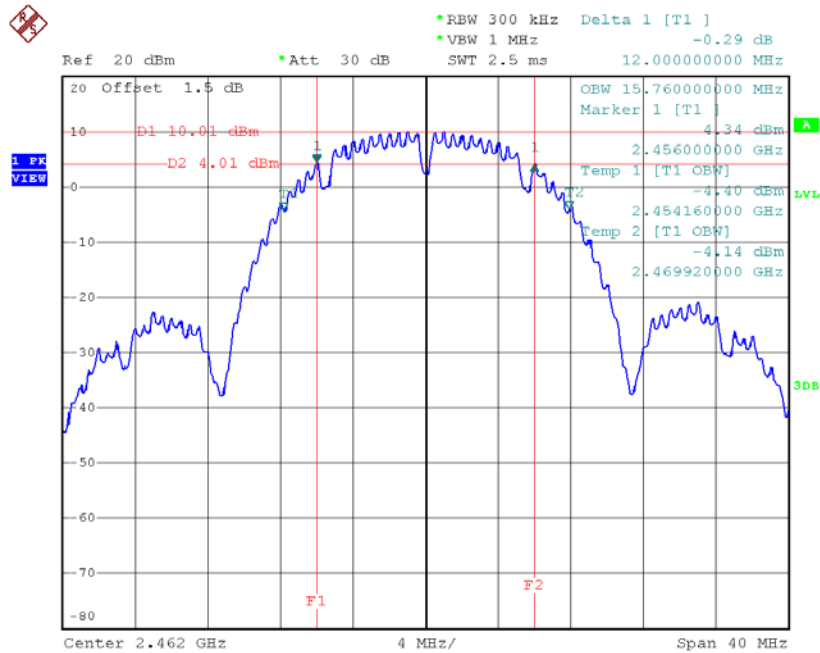
Date: 23.JUL.2018 20:38:47

TX CH06



Date: 23.JUL.2018 20:37:34

TX CH11

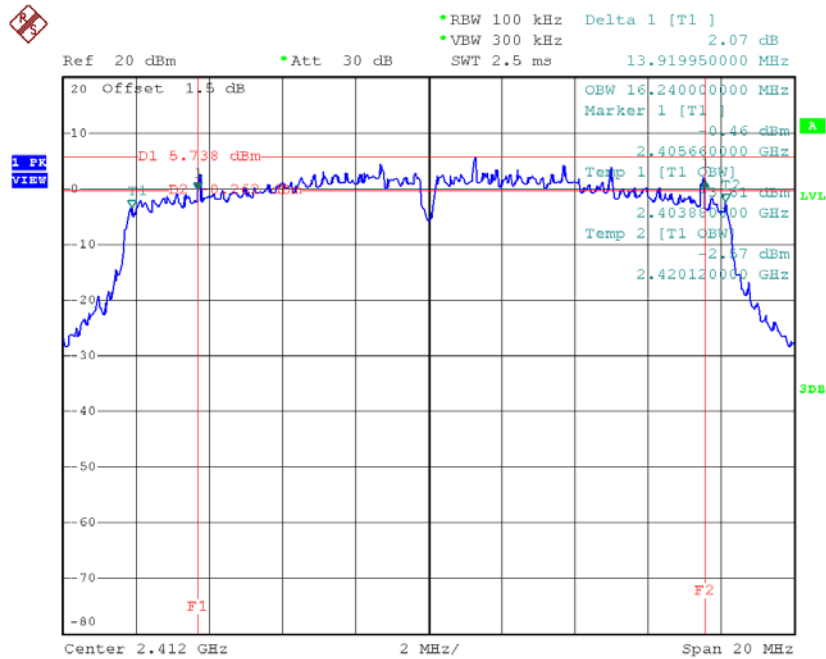


Date: 23.JUL.2018 20:36:20

Test Mode: TX G Mode_CH01/06/11

Frequency (MHz)	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
2412	13.92	500	Complies
2437	15.14	500	Complies
2462	13.90	500	Complies

TX CH01



Date: 11.JUN.2018 16:54:30

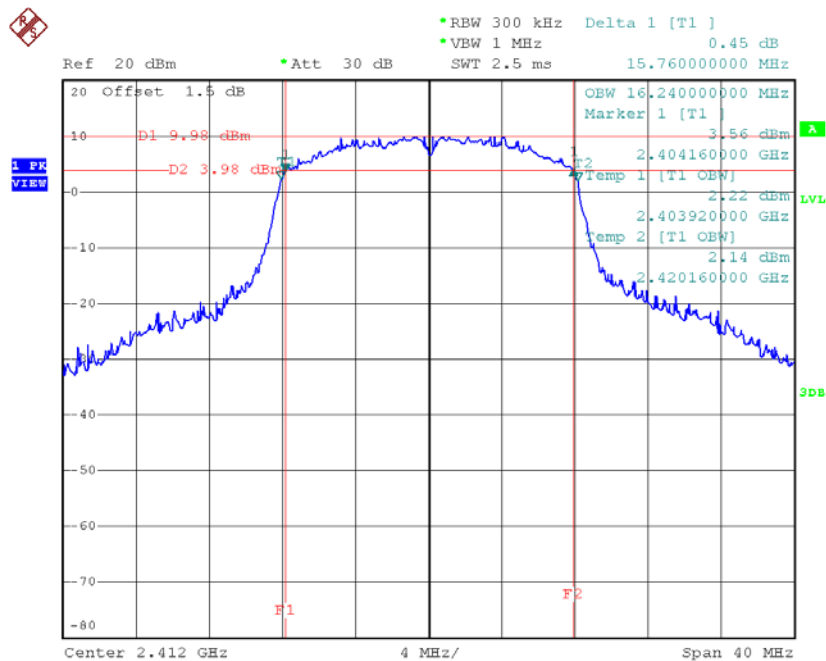
Date: 11.JUN.2018 16:57:57

Date: 11.JUN.2018 17:01:49

Test Mode: TX G Mode_CH01/06/11

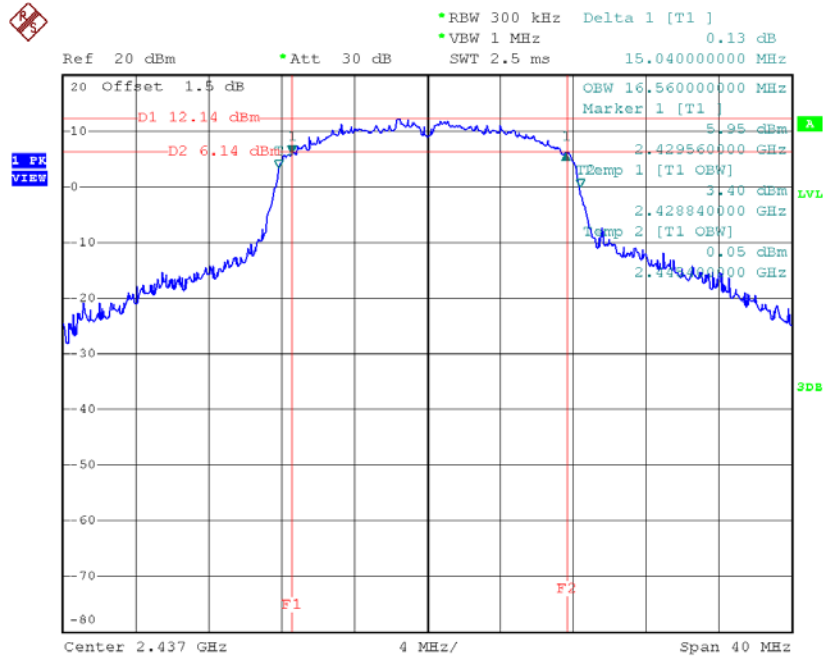
Frequency (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	16.24	500	Complies
2437	16.56	500	Complies
2462	16.72	500	Complies

TX CH01



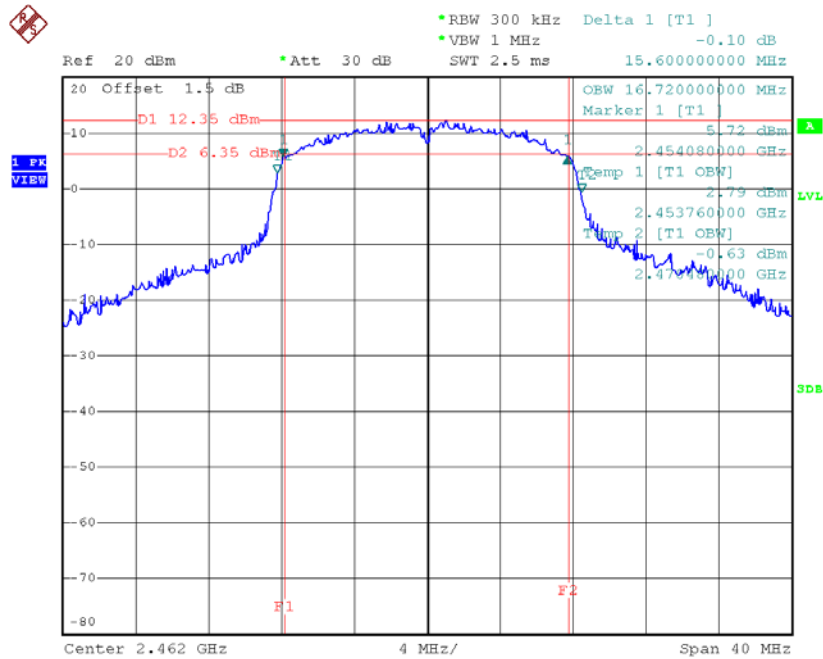
Date: 23.JUL.2018 20:35:05

TX CH06



Date: 23.JUL.2018 20:34:07

TX CH11

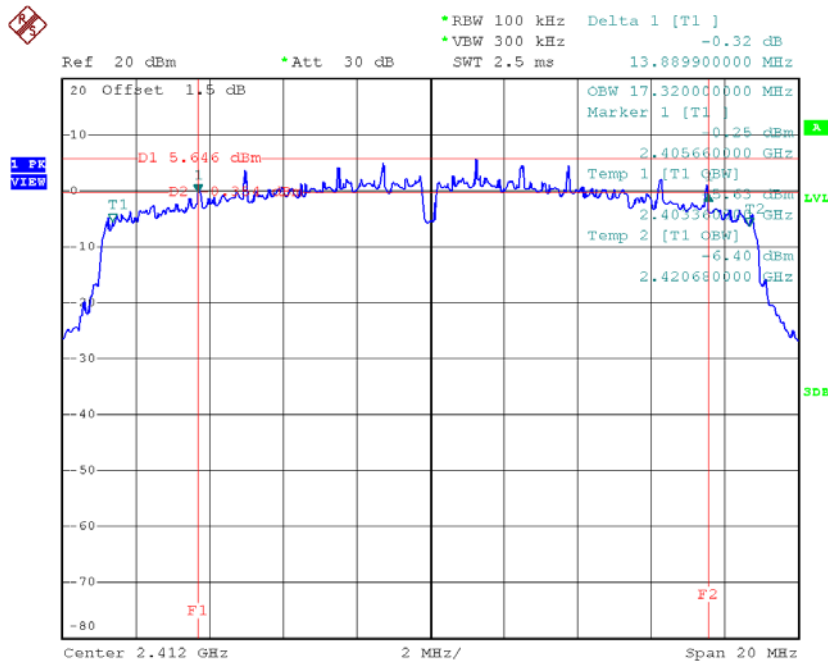


Date: 23.JUL.2018 20:32:59

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

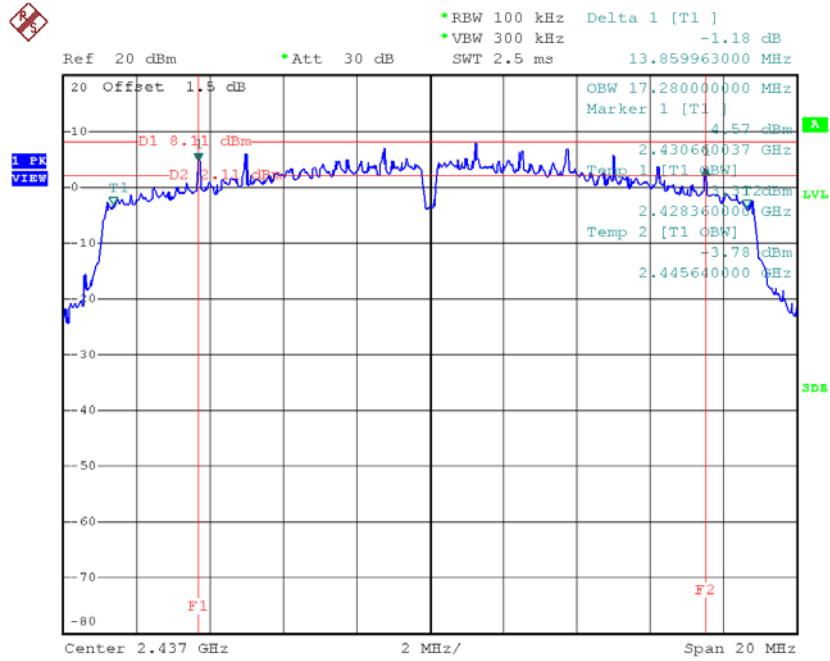
Frequency (MHz)	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
2412	13.89	500	Complies
2437	13.86	500	Complies
2462	13.94	500	Complies

TX CH01



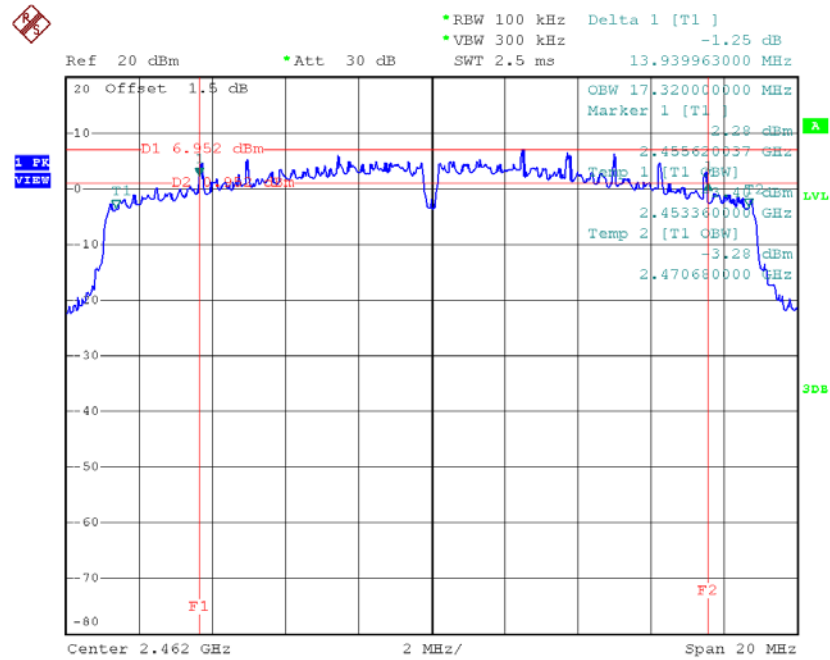
Date: 11.JUN.2018 17:04:48

TX CH06



Date: 11.JUN.2018 17:07:08

TX CH11

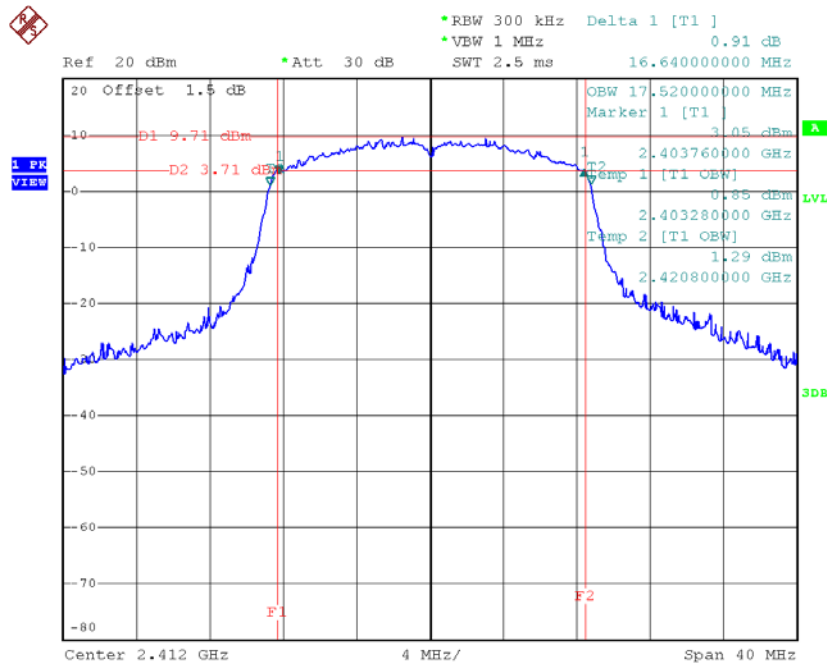


Date: 11.JUN.2018 17:12:44

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

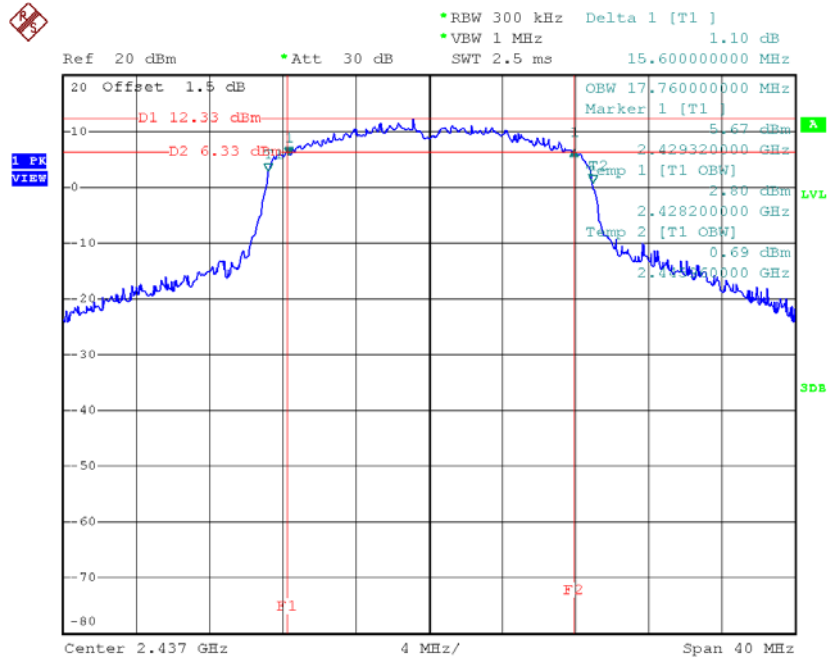
Frequency (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.52	500	Complies
2437	17.76	500	Complies
2462	17.60	500	Complies

TX CH01



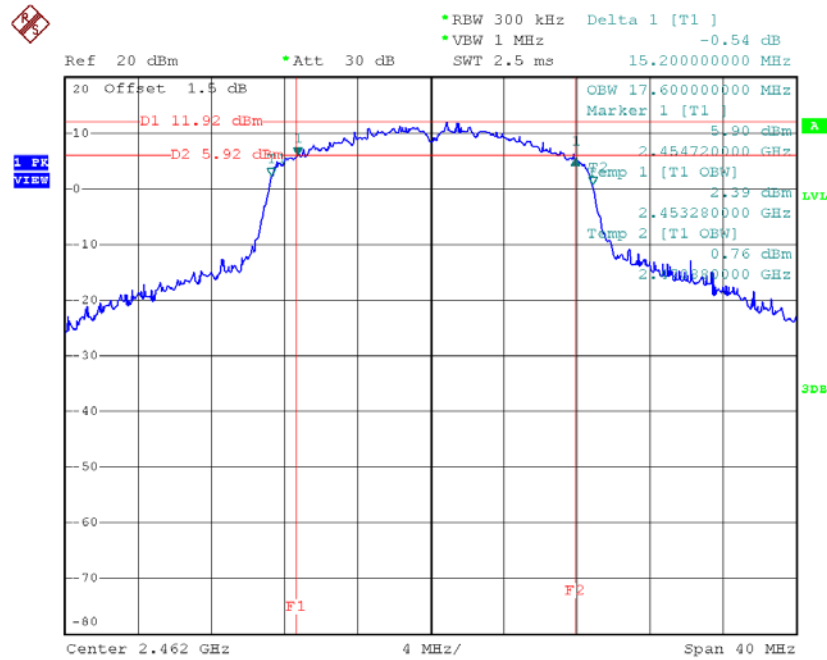
Date: 23.JUL.2018 20:31:15

TX CH06



Date: 23.JUL.2018 20:30:03

TX CH11

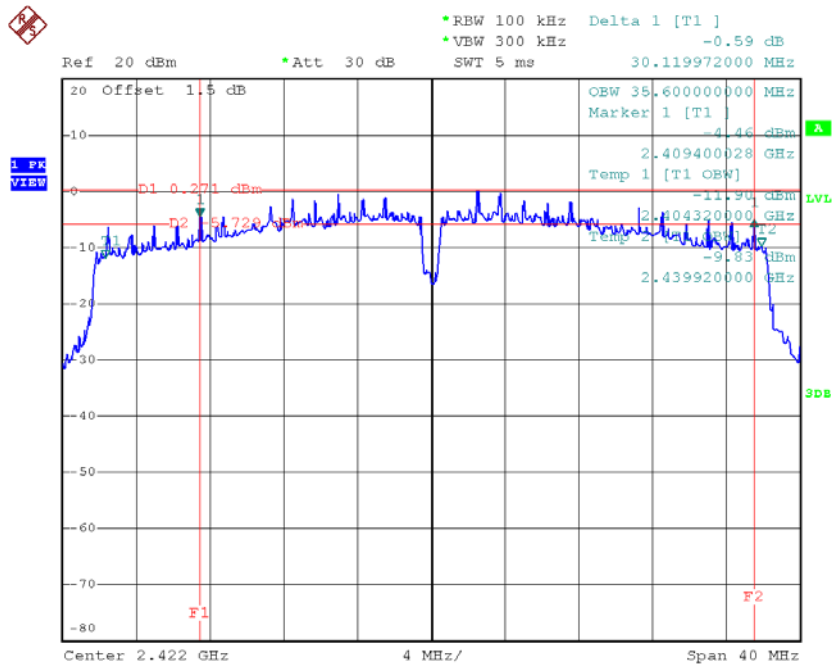


Date: 23.JUL.2018 20:28:55

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

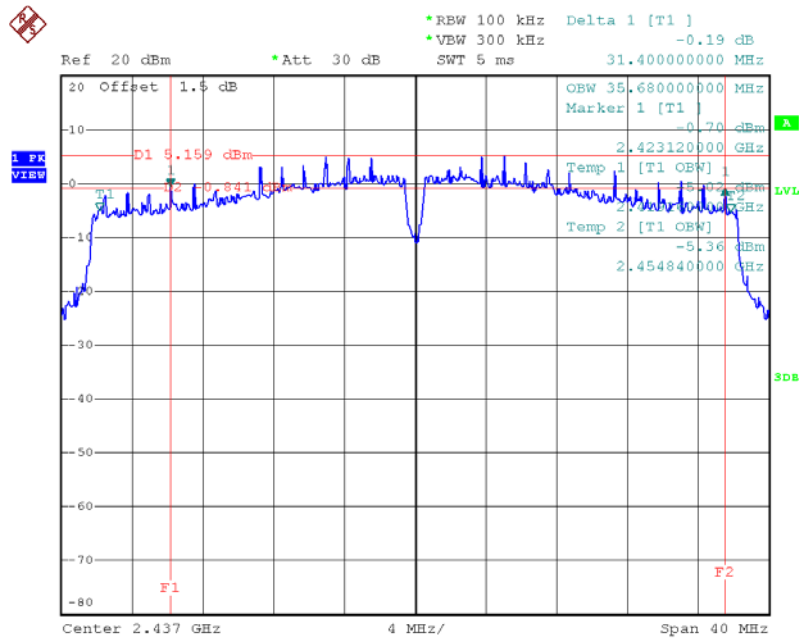
Frequency (MHz)	6dB Bandwidth (MHz)	Min. Limit (kHz)	Test Result
2422	30.12	500	Complies
2437	31.40	500	Complies
2452	28.95	500	Complies

TX CH03



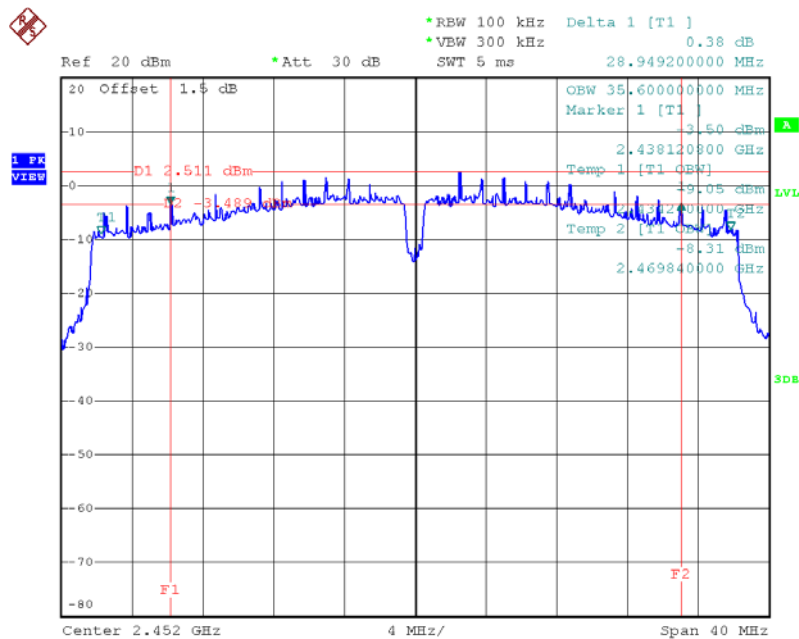
Date: 11.JUN.2018 17:17:09

TX CH06



Date: 11.JUN.2018 17:20:23

TX CH09



Date: 11.JUN.2018 17:23:11