

FCC Radio Test Report

FCC ID: TE7C20V5

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

Project No. : 1804C131
Equipment : AC750 Wireless Dual Band Router
Test Model : Archer C20
Series Model : N/A
Applicant : 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 Receipt : Apr. 24, 2018
Date of Test : Apr. 27, 2018 ~ Jun. 14, 2018
Issued Date : Jul. 11, 2018
Tested by : BTL Inc.

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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.	Description	Issued Date
BTL-FCCP-1-1804C131	Original Issue.	Jul. 11, 2018

1. CERTIFICATION

Equipment : AC750 Wireless Dual Band Router
Brand Name : tp-link
Test Model : Archer C20
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 : Apr. 27, 2018 ~ Jun. 14, 2018
Test Sample : Engineering Sample No.: D180403306-5 for conducted, D180403304 for radiated
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-1-1804C131) 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)	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	AC750 Wireless Dual Band Router	
Brand Name	tp-link	
Test Model	Archer C20	
Series Model	N/A	
Model Difference	NA	
Product Description	Operation Frequency	2412~2462 MHz
	Modulation Technology	802.11b:DSSS 802.11g:OFDM 802.11n:OFDM
	Bit Rate of Transmitter	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to 300 Mbps
	AVG Output Power (Max.)	802.11b: 24.65dBm 802.11g: 24.07dBm 802.11n(20MHz): 24.35dBm 802.11n(40MHz): 22.35dBm
Power Source	DC Voltage supplied from AC/DC adapter. Brand/Model: tp-link/T090060-2B1	
Power Rating	I/P: 100-240V~50/60Hz 0.3A O/P: 9V---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	PN	Antenna Type	Connector	Gain (dBi)
1		3101500977	Dipole	N/A	0.95
2		3101501087	Dipole	N/A	1.09

Note:

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

4.

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

3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test	
Final Test Mode	Description
Mode 5	Normal Link

For Radiated Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/06/10/11
Mode 2	TX G MODE CHANNEL 01/06/10/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/06/10/11
Mode 4	TX N-40MHZ MODE CHANNEL 03/06/08/09

For Band Edge Test	
Final Test Mode	Description
Mode 1	TX B MODE CHANNEL 01/02/06/10/11
Mode 2	TX G MODE CHANNEL 01/02/06/10/11
Mode 3	TX N-20MHZ MODE CHANNEL 01/02/06/10/11
Mode 4	TX N-40MHZ MODE CHANNEL 03//04/06/08/09

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 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:

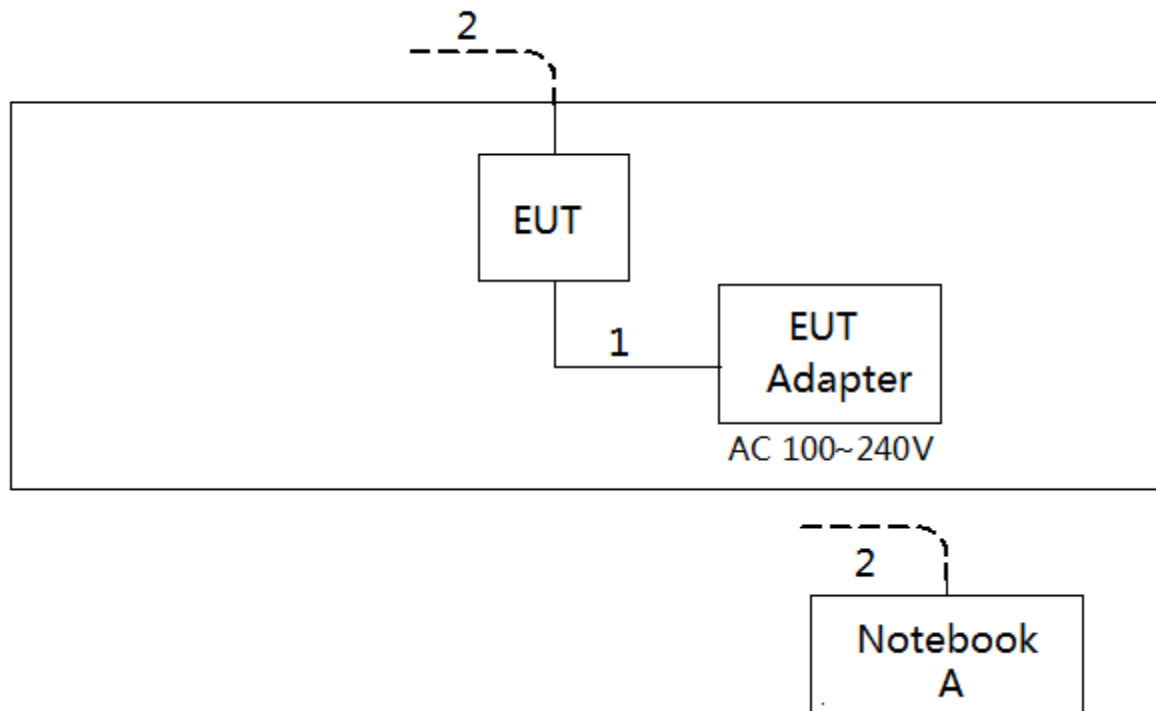
- (1) The measurements are performed at the high, middle, low available channels.
- (2) 802.11b mode: DBPSK (1Mbps)
 802.11g mode: OFDM (6Mbps)
 802.11n HT20 mode : BPSK (13Mbps)
 802.11n HT40 mode : BPSK (27Mbps)
 For radiated emission tests, the highest output powers were set for final test.
- (3) 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%.

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	N/A		
Frequency (MHz)	2412	2437	2462
802.11b	36	37	37
802.11g	29	39	32
802.11n (20MHz)	26	40	30
Frequency (MHz)	2422	2437	2452
802.11n (40MHz)	21	32	25

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



4

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	1.5m	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 (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

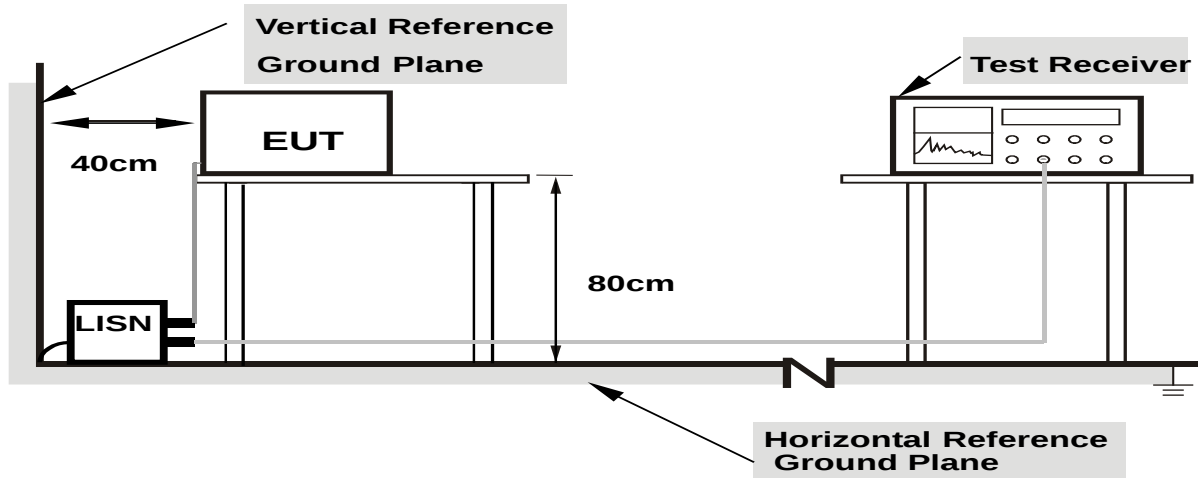
4.1.2 TEST PROCEDURE

- 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

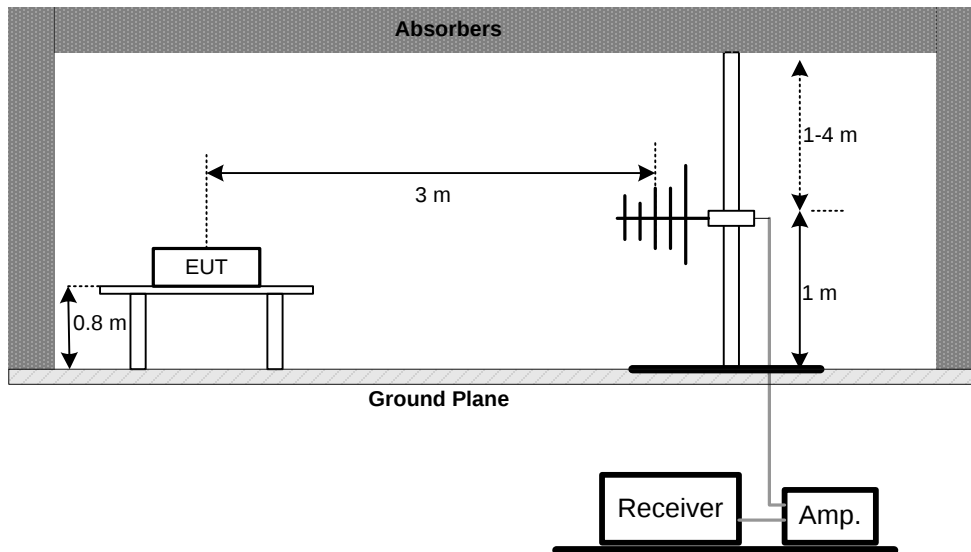
- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The measuring distance of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

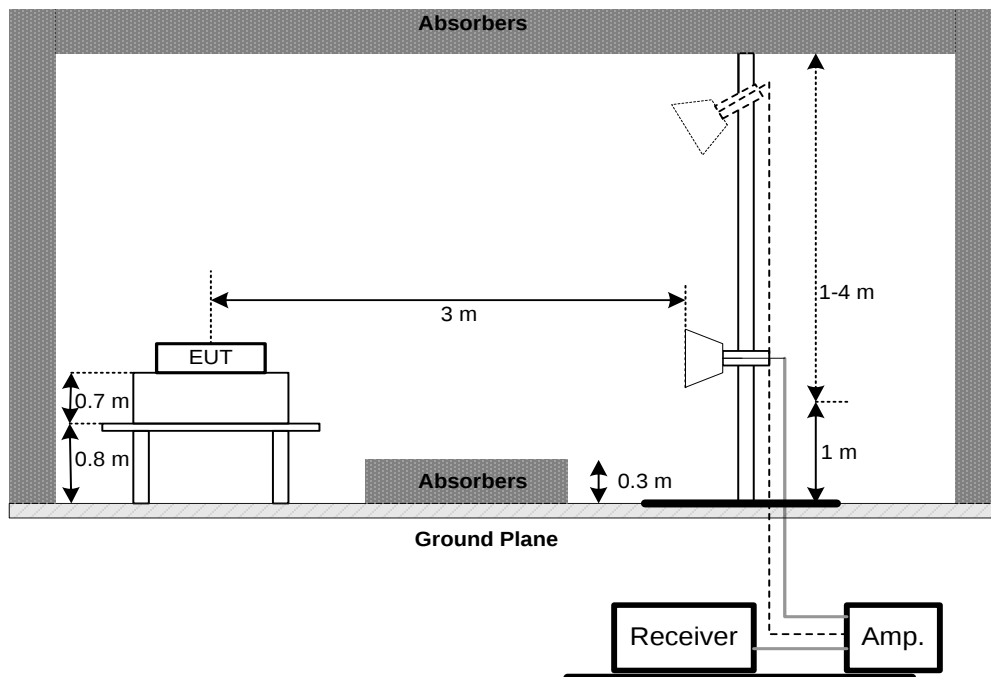
No deviation

4.2.4 TEST SETUP

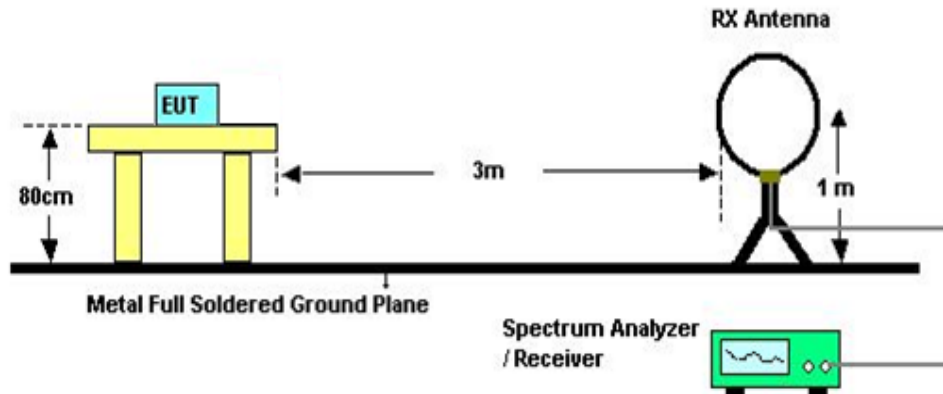
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(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)	Bandwidth	2400-2483.5	PASS

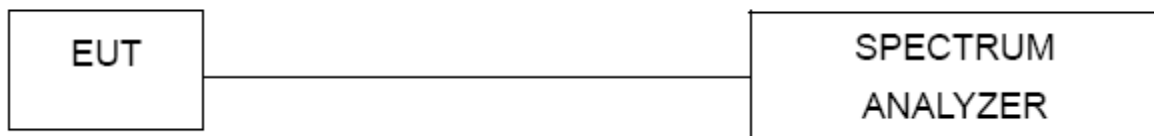
5.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting: 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 peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 v04 DTS Meas Guidance and FCC KDB 662911 D01 v02r01 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

- 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.
- 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

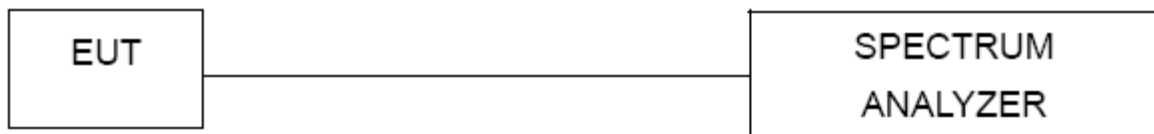
8.1.1 TEST PROCEDURE

- 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 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 - 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	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 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, 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	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.

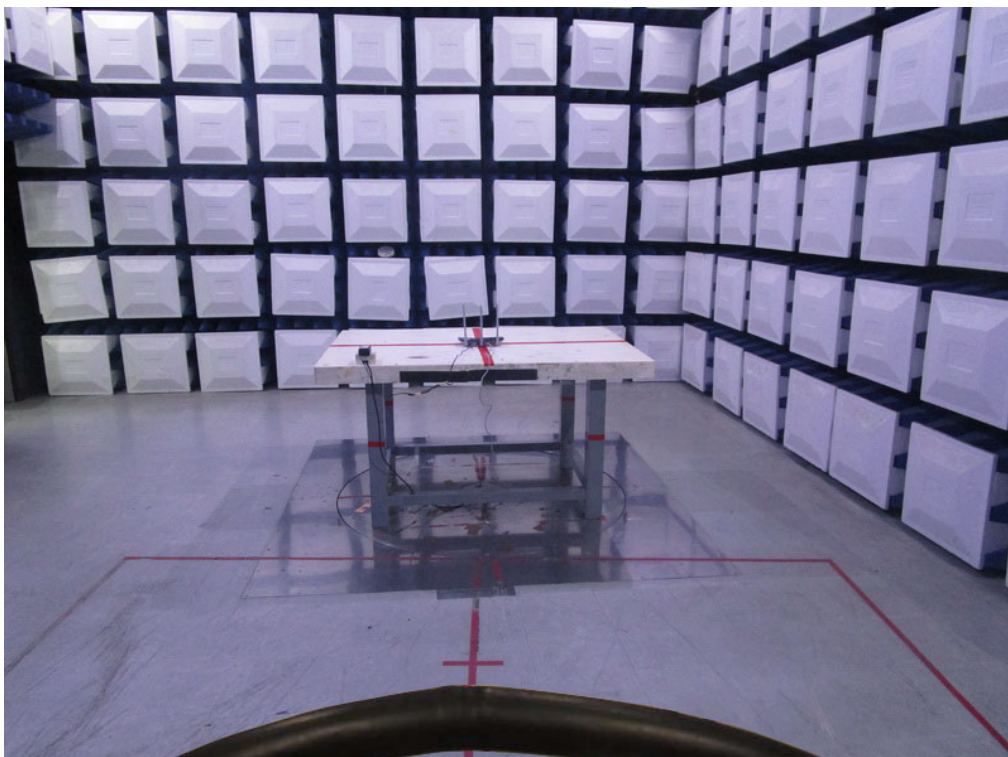
10. EUT TEST PHOTO

Conducted Measurement Photos



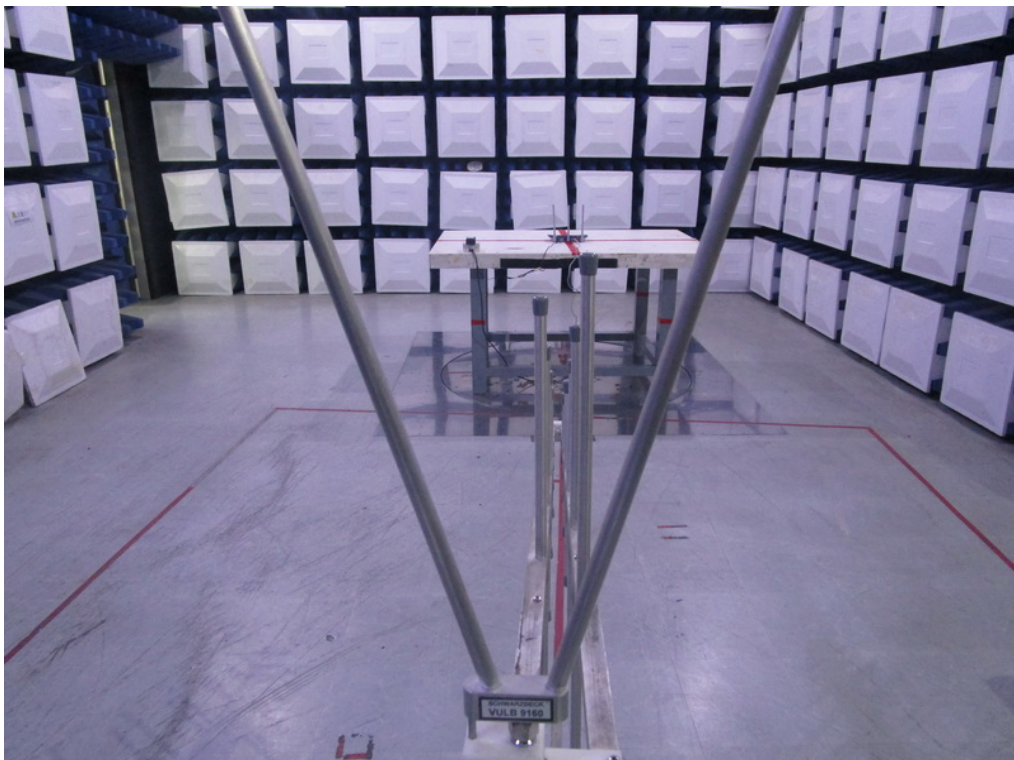
Radiated Measurement Photos

9KHz to 30MHz



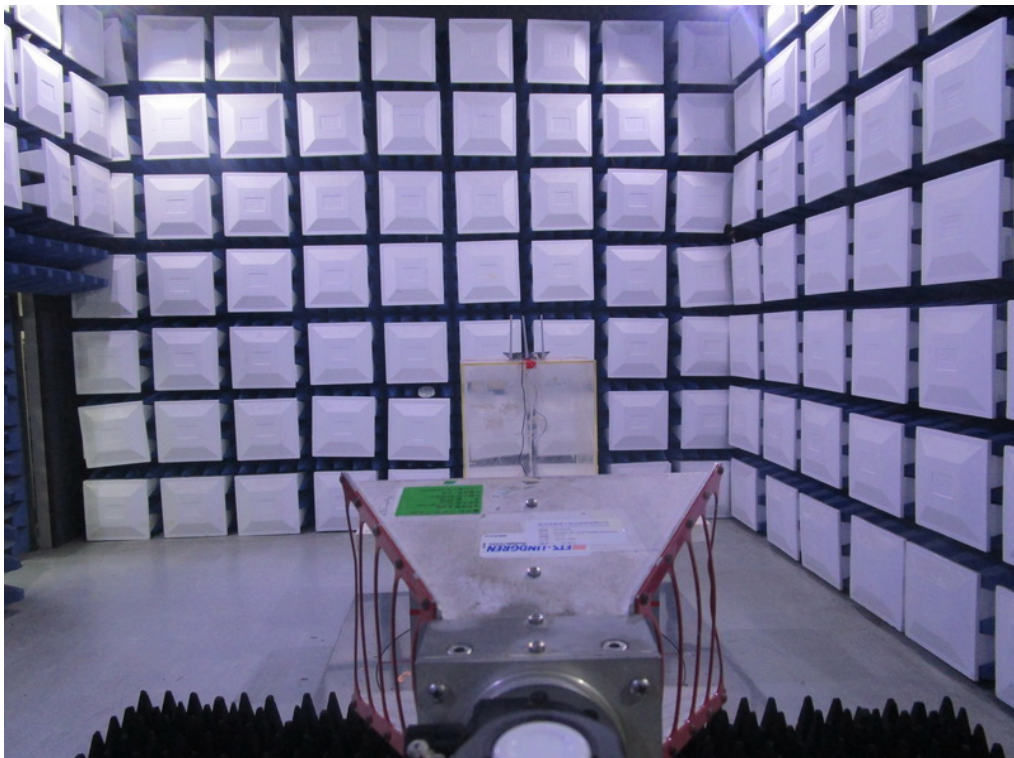
Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

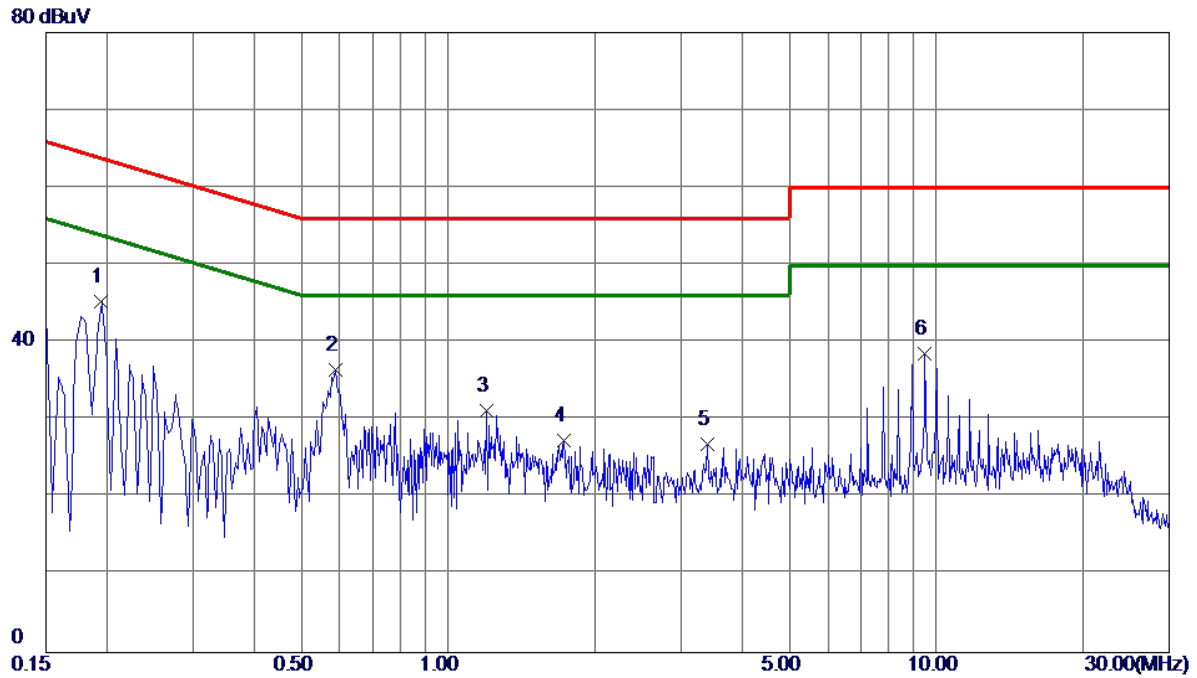
Above 1000MHz



APPENDIX A - CONDUCTED EMISSION

Test Mode : Normal Link

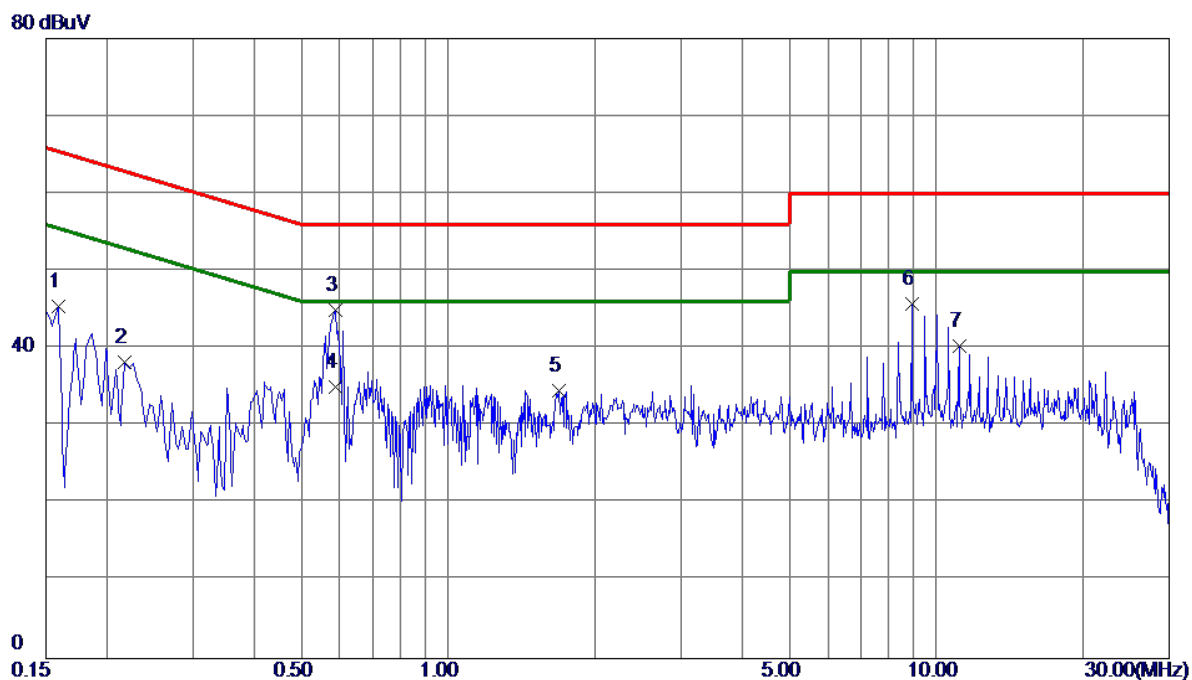
Line



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1949	35.48	9.82	45.30	63.83	-18.53	Peak	
2	0.5865	26.70	9.82	36.52	56.00	-19.48	Peak	
3	1.1985	21.34	9.93	31.27	56.00	-24.73	Peak	
4	1.7295	17.41	9.98	27.39	56.00	-28.61	Peak	
5	3.3990	16.80	10.08	26.88	56.00	-29.12	Peak	
6	9.4604	28.08	10.46	38.54	60.00	-21.46	Peak	

Test Mode : Normal Link

Neutral

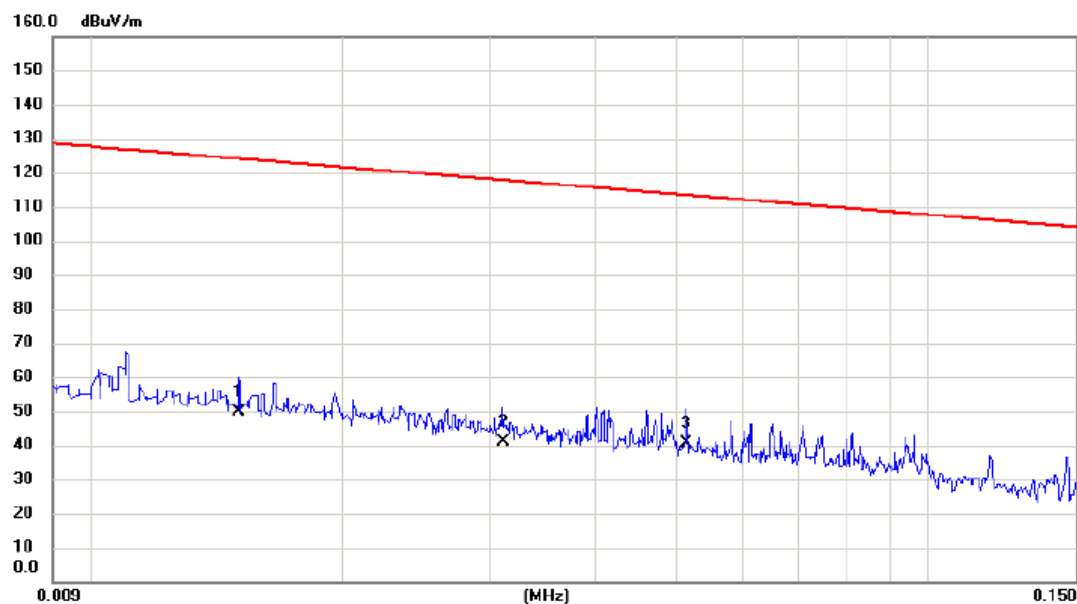


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1590	35.47	9.91	45.38	65.52	-20.14	Peak	
2	0.2175	28.28	9.91	38.19	62.91	-24.72	Peak	
3 *	0.5865	35.04	9.97	45.01	56.00	-10.99	Peak	
4	0.5865	25.04	9.97	35.01	46.00	-10.99	AVG	
5	1.6890	24.39	10.17	34.56	56.00	-21.44	Peak	
6	8.9070	35.11	10.69	45.80	60.00	-14.20	Peak	
7	11.1300	29.45	10.82	40.27	60.00	-19.73	Peak	

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

Test Mode: TX MODE

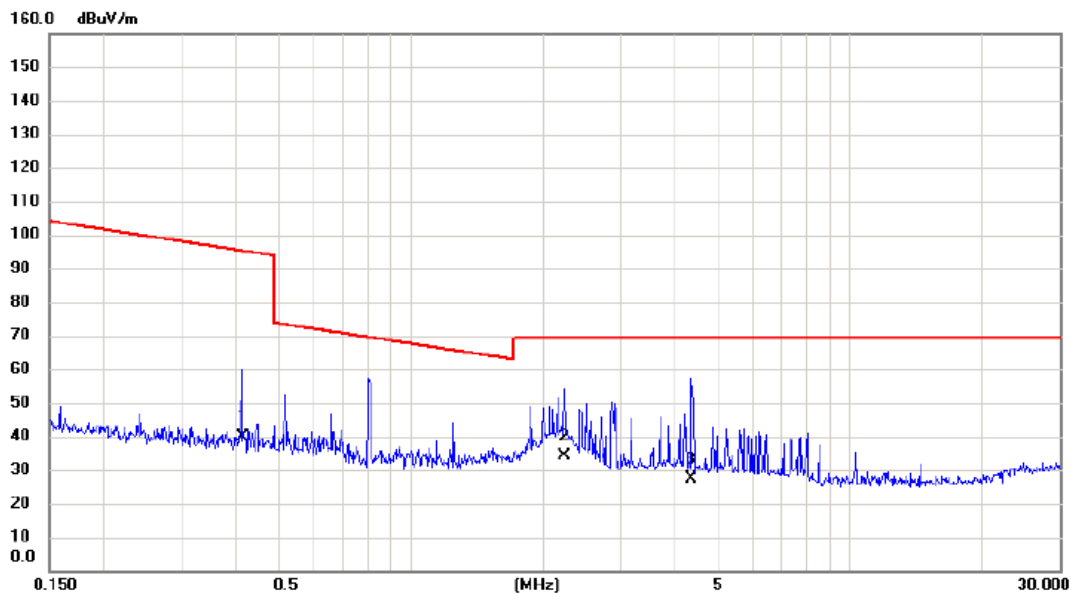
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0150	29.69	20.27	49.96	124.08	-74.12	AVG	
2		0.0311	21.76	19.29	41.05	117.75	-76.70	AVG	
3	*	0.0514	21.93	18.69	40.62	113.39	-72.77	AVG	

Test Mode: TX MODE

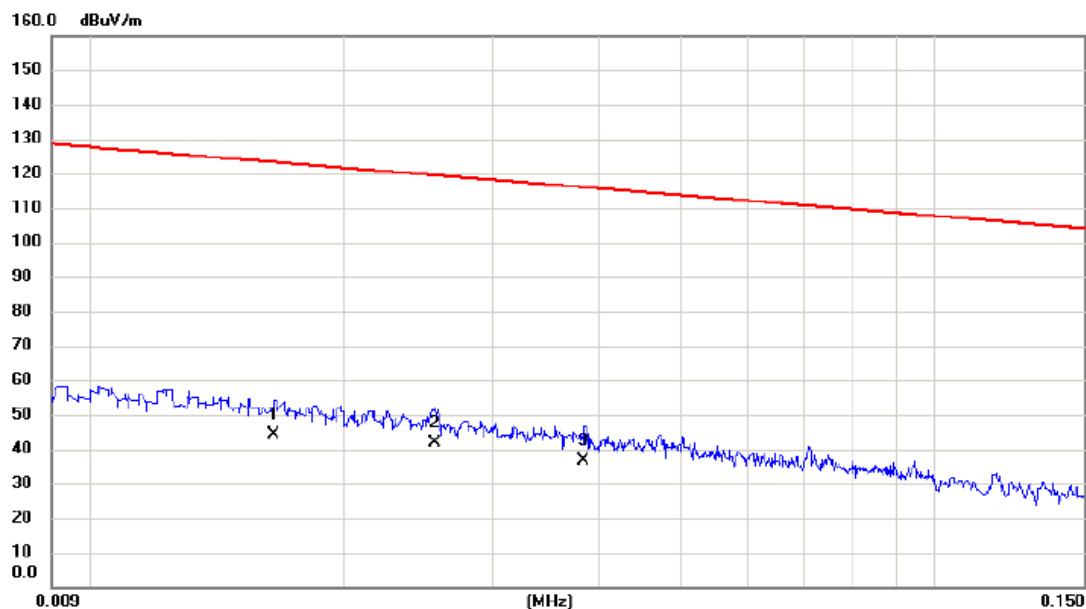
Ant 0°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.4127	23.38	16.54	39.92	95.29	-55.37	AVG	
2	*	2.2367	18.95	15.44	34.39	69.54	-35.15	QP	
3		4.3376	12.80	14.76	27.56	69.54	-41.98	QP	

Test Mode: TX MODE

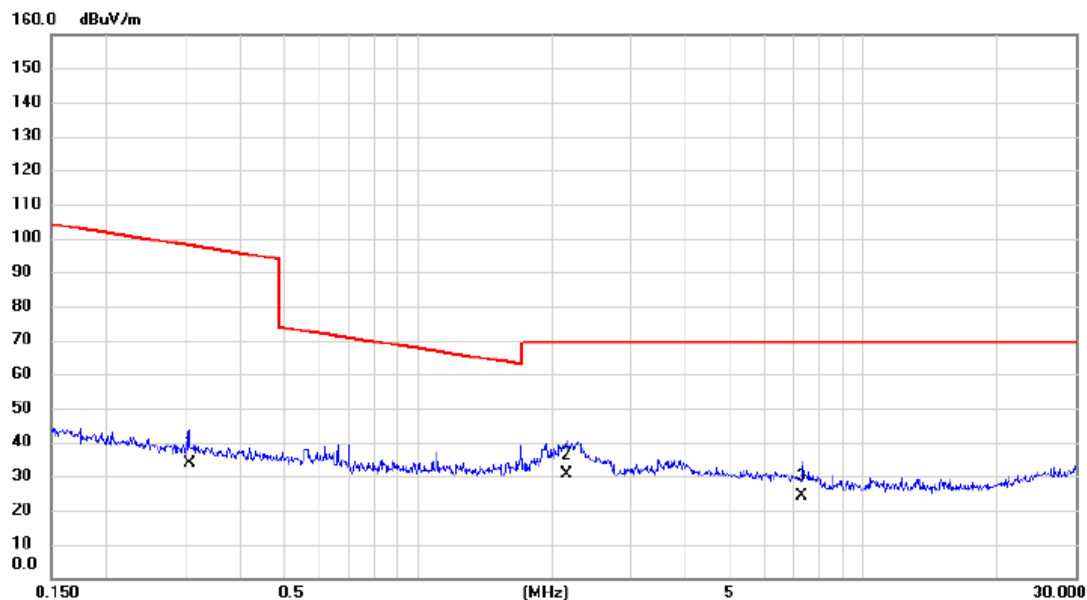
Ant 90°



No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.0165	24.12	20.07	44.19	123.26	-79.07	AVG	
2	*	0.0256	22.24	19.45	41.69	119.44	-77.75	AVG	
3		0.0384	17.62	19.07	36.69	115.92	-79.23	AVG	

Test Mode: TX MODE

Ant 90°



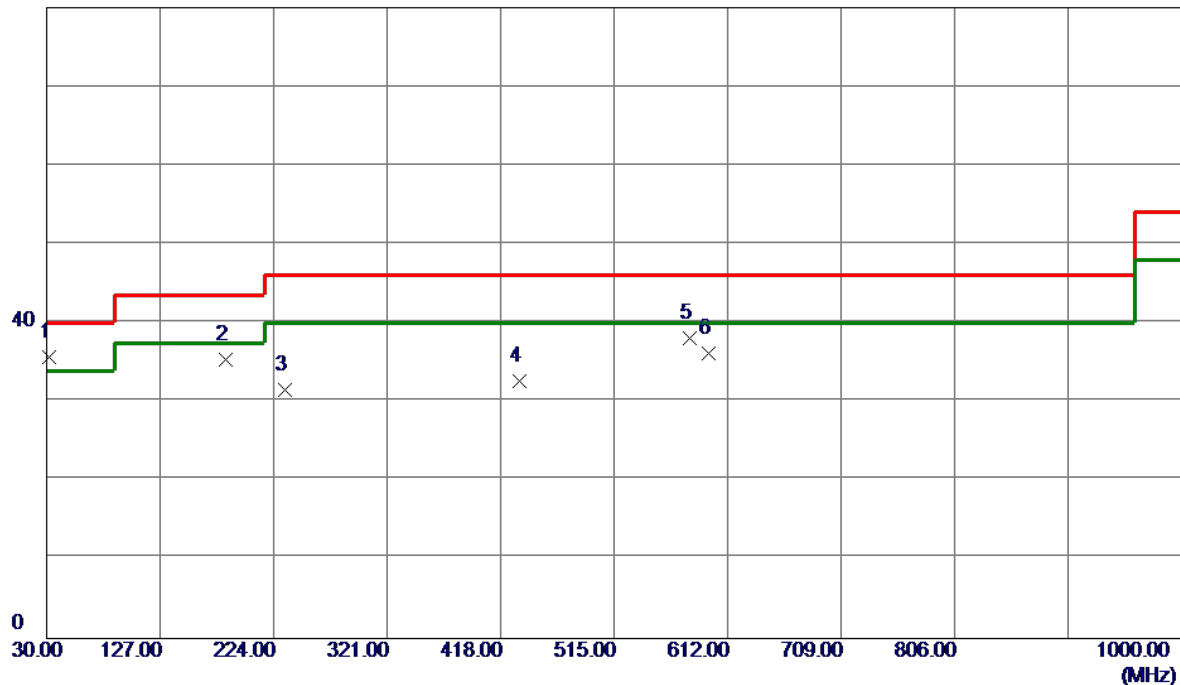
No.	Mk.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		0.3067	17.22	16.61	33.83	97.87	-64.04	AVG	
2	*	2.1552	15.12	15.46	30.58	69.54	-38.96	QP	
3		7.2903	10.31	14.09	24.40	69.54	-45.14	QP	

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

Test Mode: TX B MODE CHANNEL 01

Vertical

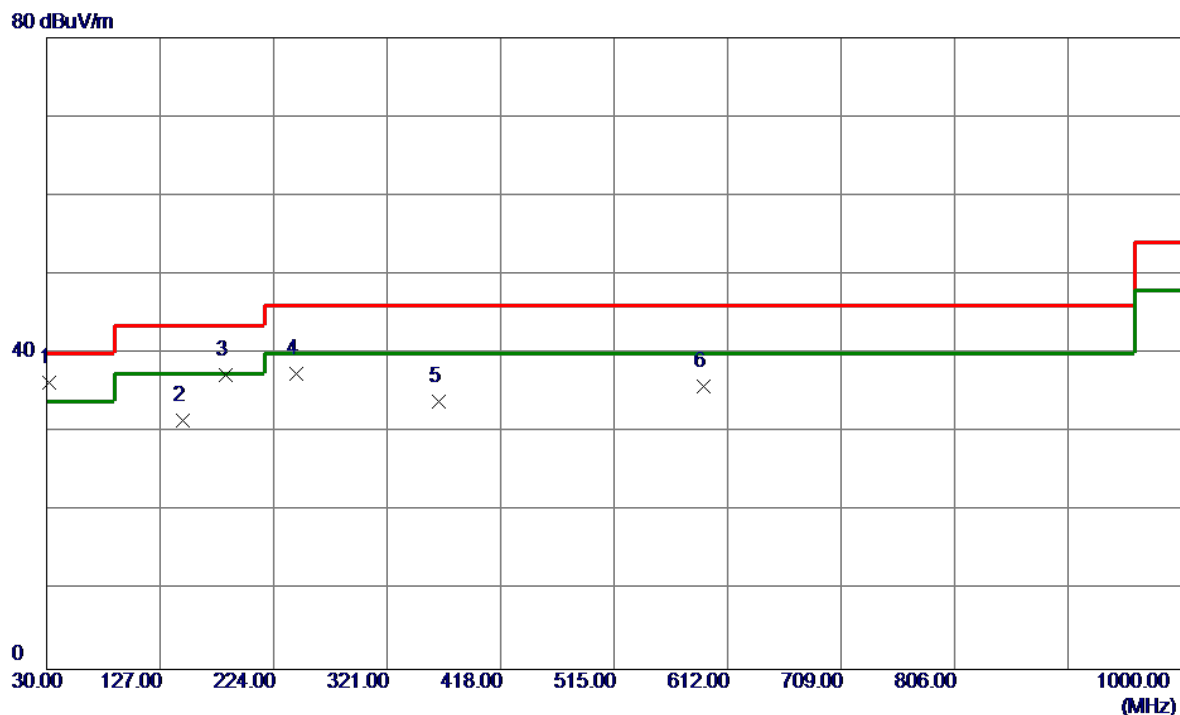
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	32.4250	49.20	-13.54	35.66	40.00	-4.34	Peak	
2	183.2600	47.34	-12.04	35.30	43.50	-8.20	Peak	
3	233.7000	45.53	-14.05	31.48	46.00	-14.52	Peak	
4	434.4900	39.70	-7.05	32.65	46.00	-13.35	Peak	
5	579.9900	42.25	-4.23	38.02	46.00	-7.98	Peak	
6	595.9950	40.48	-4.25	36.23	46.00	-9.77	Peak	

Test Mode: TX B MODE CHANNEL 01

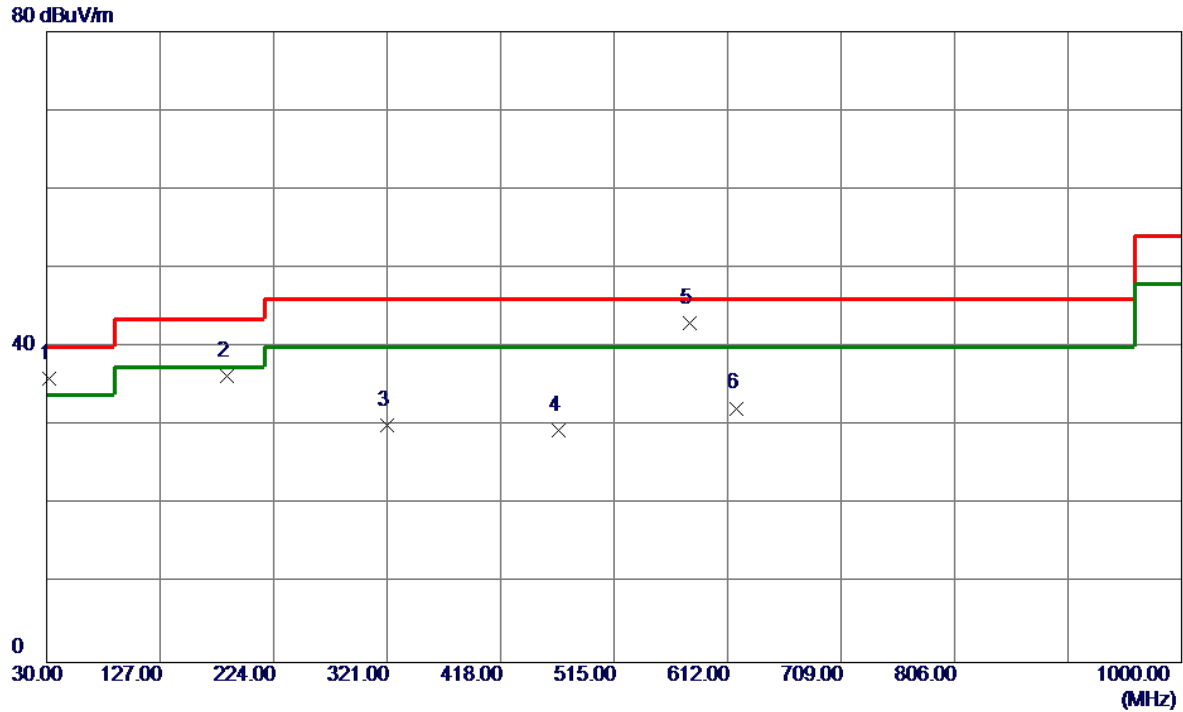
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	49.89	-13.60	36.29	40.00	-3.71	Peak	
2	146.8850	42.34	-10.86	31.48	43.50	-12.02	Peak	
3	183.2600	49.33	-12.04	37.29	43.50	-6.21	Peak	
4	243.4000	51.33	-13.94	37.39	46.00	-8.61	Peak	
5	365.1350	43.81	-9.89	33.92	46.00	-12.08	Peak	
6	591.1450	40.09	-4.25	35.84	46.00	-10.16	Peak	

Test Mode: TX B MODE CHANNEL 06

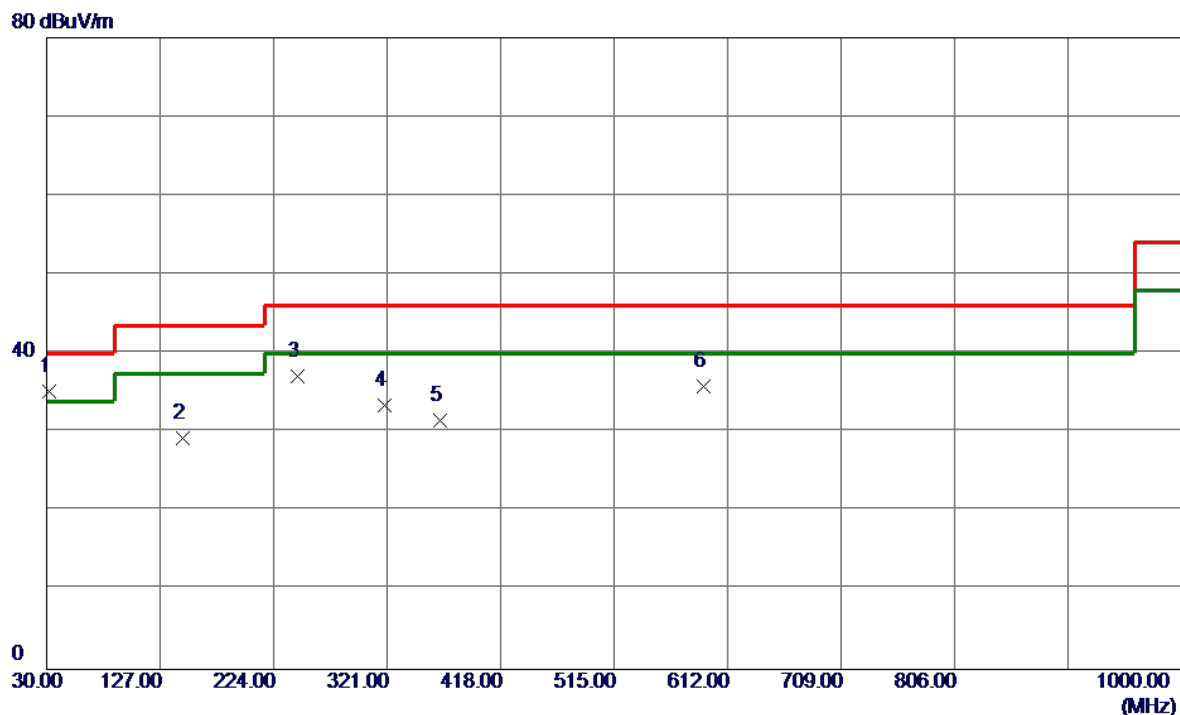
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	32.4250	49.59	-13.54	36.05	40.00	-3.95	Peak	
2	183.7450	48.42	-12.09	36.33	43.50	-7.17	Peak	
3	321.4849	40.56	-10.51	30.05	46.00	-15.95	Peak	
4	467.9550	36.06	-6.68	29.38	46.00	-16.62	Peak	
5 *	579.9900	47.21	-4.23	42.98	46.00	-3.02	Peak	
6	619.7600	36.14	-3.90	32.24	46.00	-13.76	Peak	

Test Mode: TX B MODE CHANNEL 06

Horizontal

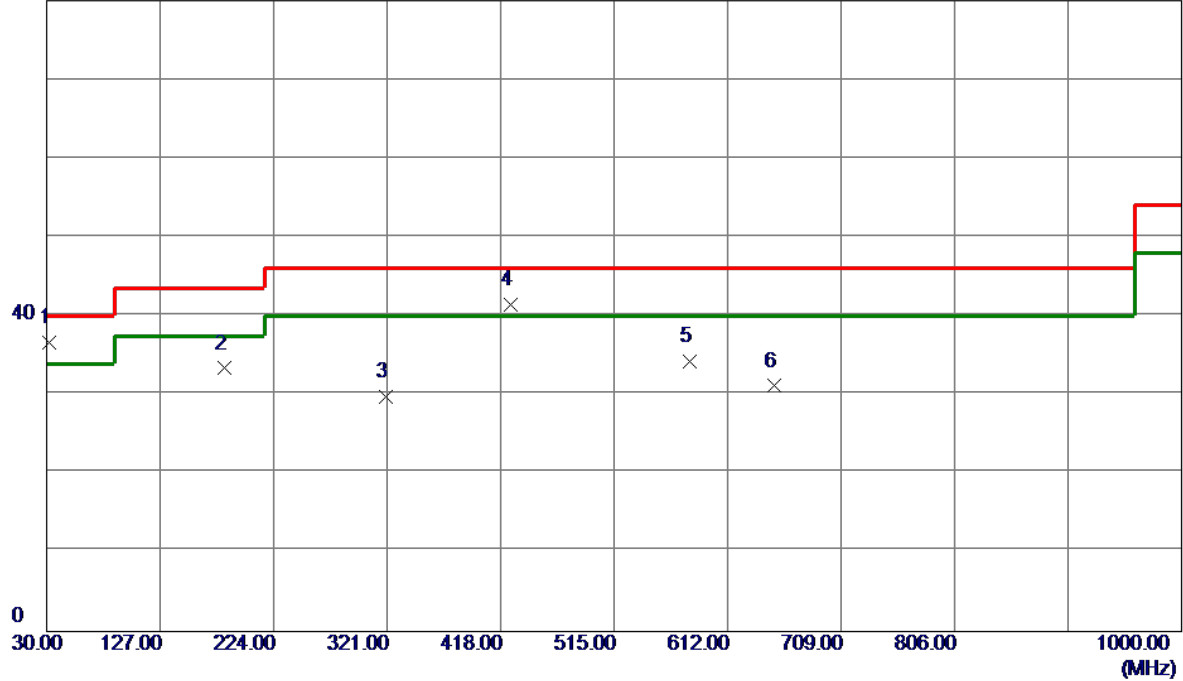


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	48.74	-13.60	35.14	40.00	-4.86	Peak	
2	146.4000	40.14	-10.89	29.25	43.50	-14.25	Peak	
3	244.3700	51.11	-13.92	37.19	46.00	-8.81	Peak	
4	319.0600	44.01	-10.52	33.49	46.00	-12.51	Peak	
5	366.5900	41.38	-9.84	31.54	46.00	-14.46	Peak	
6	591.1450	40.09	-4.25	35.84	46.00	-10.16	Peak	

Test Mode: TX B MODE CHANNEL 11

Vertical

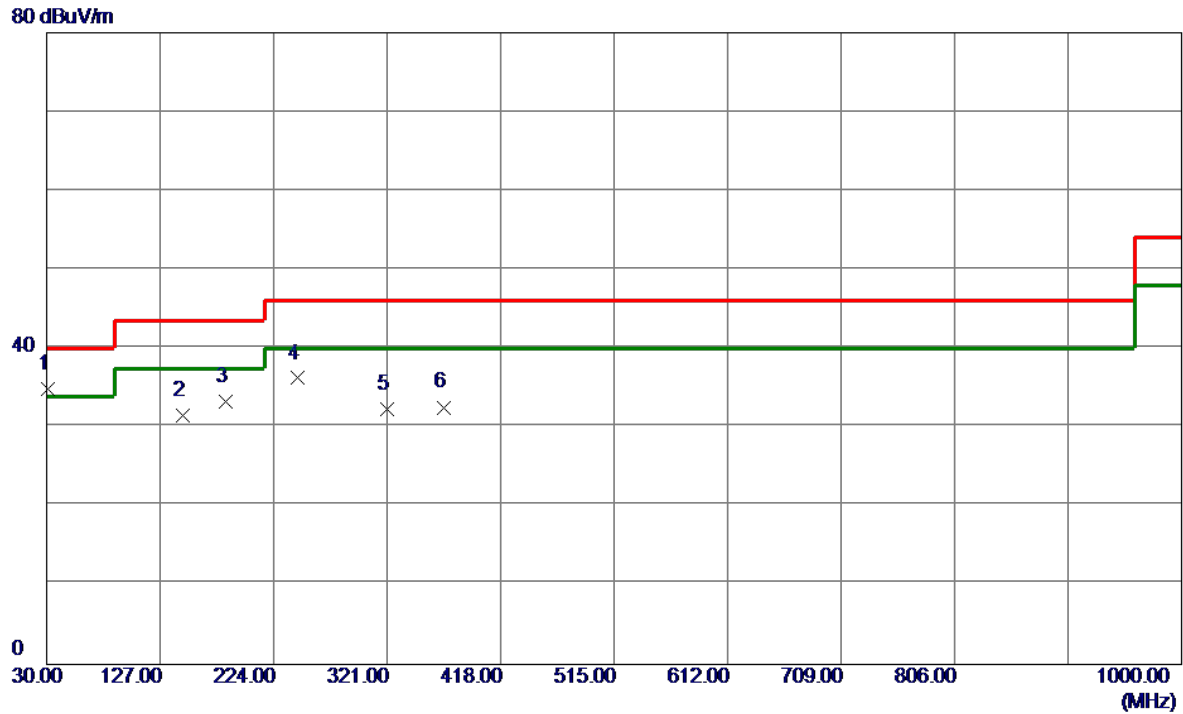
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	32.4250	50.24	-13.54	36.70	40.00	-3.30	Peak	
2	182.2899	45.30	-11.94	33.36	43.50	-10.14	Peak	
3	320.0300	40.22	-10.51	29.71	46.00	-16.29	Peak	
4	426.2450	48.89	-7.43	41.46	46.00	-4.54	Peak	
5	579.9900	38.41	-4.23	34.18	46.00	-11.82	Peak	
6	652.2550	34.36	-3.24	31.12	46.00	-14.88	Peak	

Test Mode: TX B MODE CHANNEL 11

Horizontal

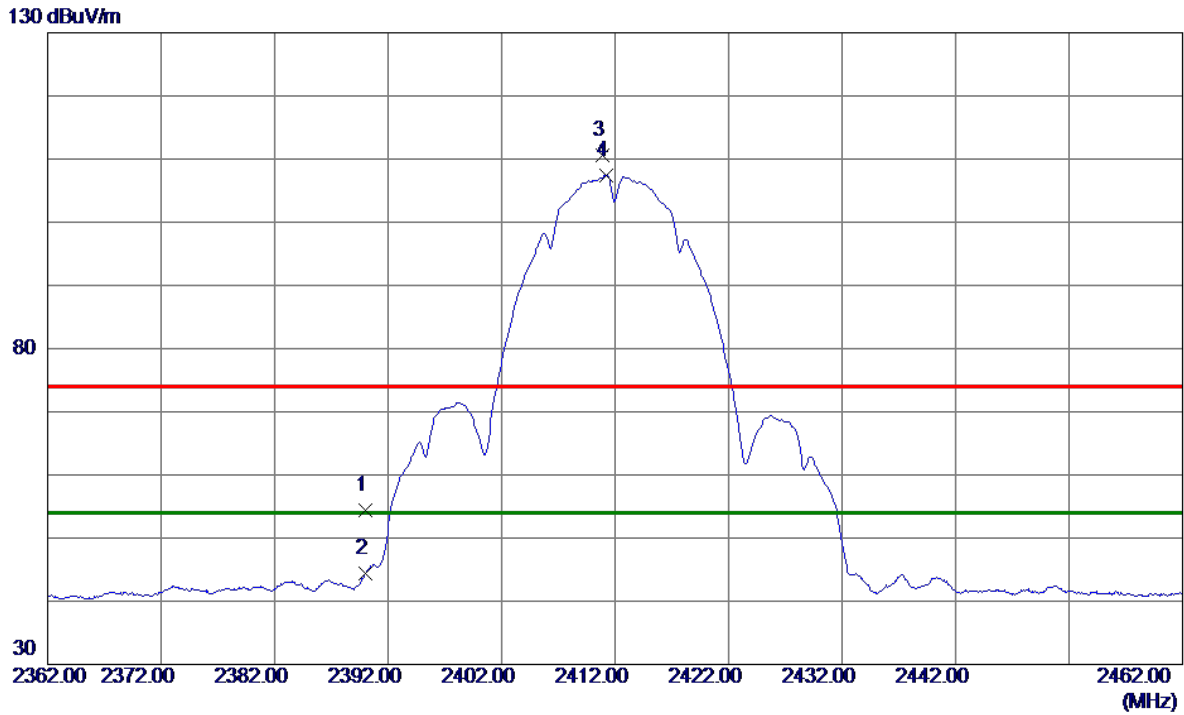


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.4550	48.45	-13.55	34.90	40.00	-5.10	Peak	
2	145.9149	42.48	-10.92	31.56	43.50	-11.94	Peak	
3	183.2600	45.26	-12.04	33.22	43.50	-10.28	Peak	
4	244.3700	50.16	-13.92	36.24	46.00	-9.76	Peak	
5	321.4849	42.81	-10.51	32.30	46.00	-13.70	Peak	
6	369.0150	42.31	-9.75	32.56	46.00	-13.44	Peak	

APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical

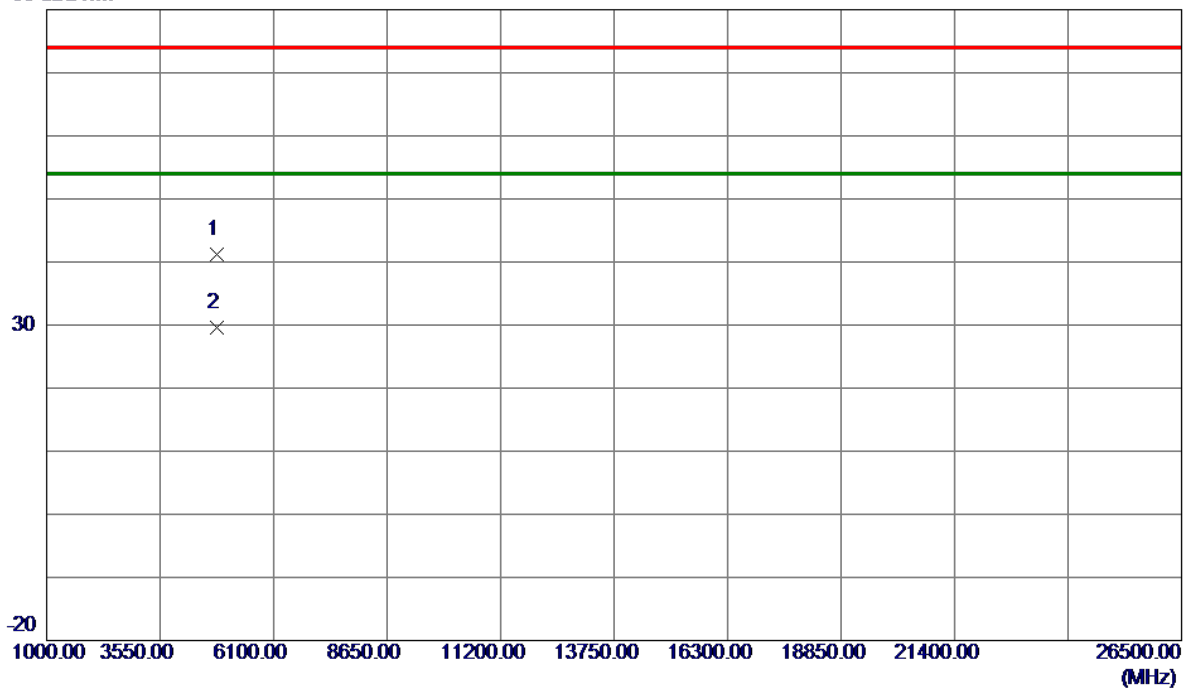


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	44.45	10.03	54.48	74.00	-19.52	Peak	
2	2390.0000	34.43	10.03	44.46	54.00	-9.54	AVG	
3	2410.8500	100.57	10.09	110.66	74.00	36.66	Peak	No Limit
4 *	2411.2500	97.39	10.09	107.48	54.00	53.48	AVG	No Limit

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

Vertical

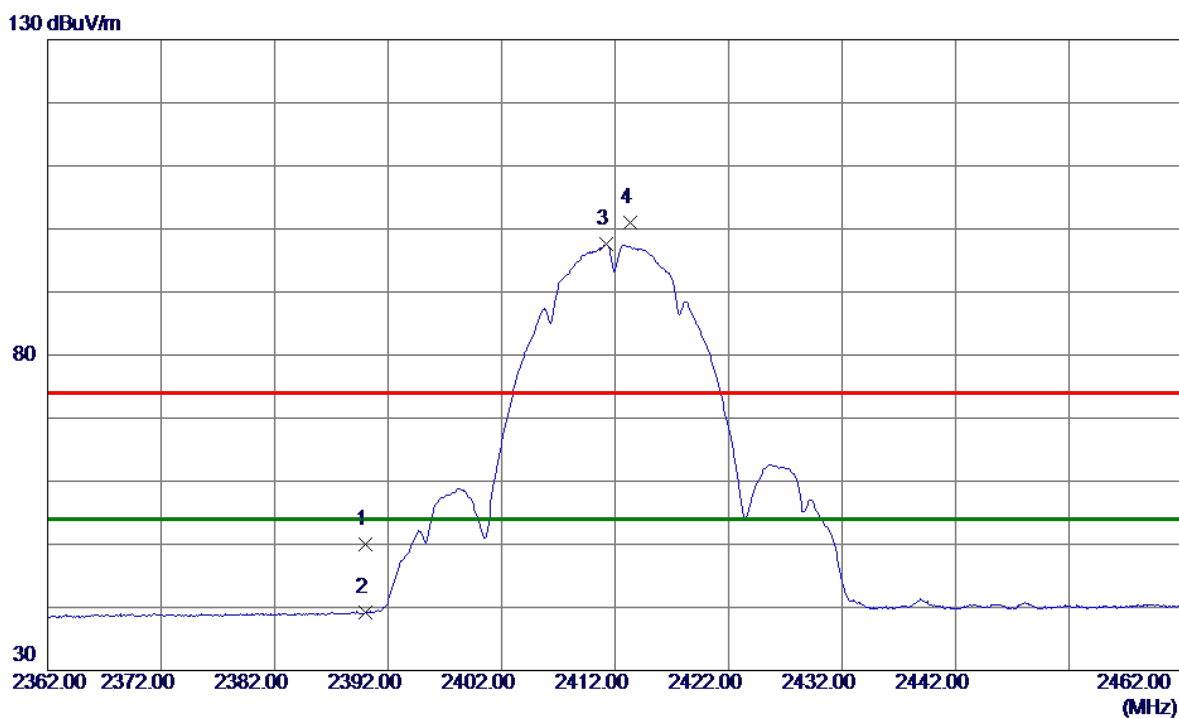
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4821.3300	34.85	6.32	41.17	74.00	-32.83	Peak	
2 *	4824.3350	23.20	6.33	29.53	54.00	-24.47	AVG	

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

Horizontal

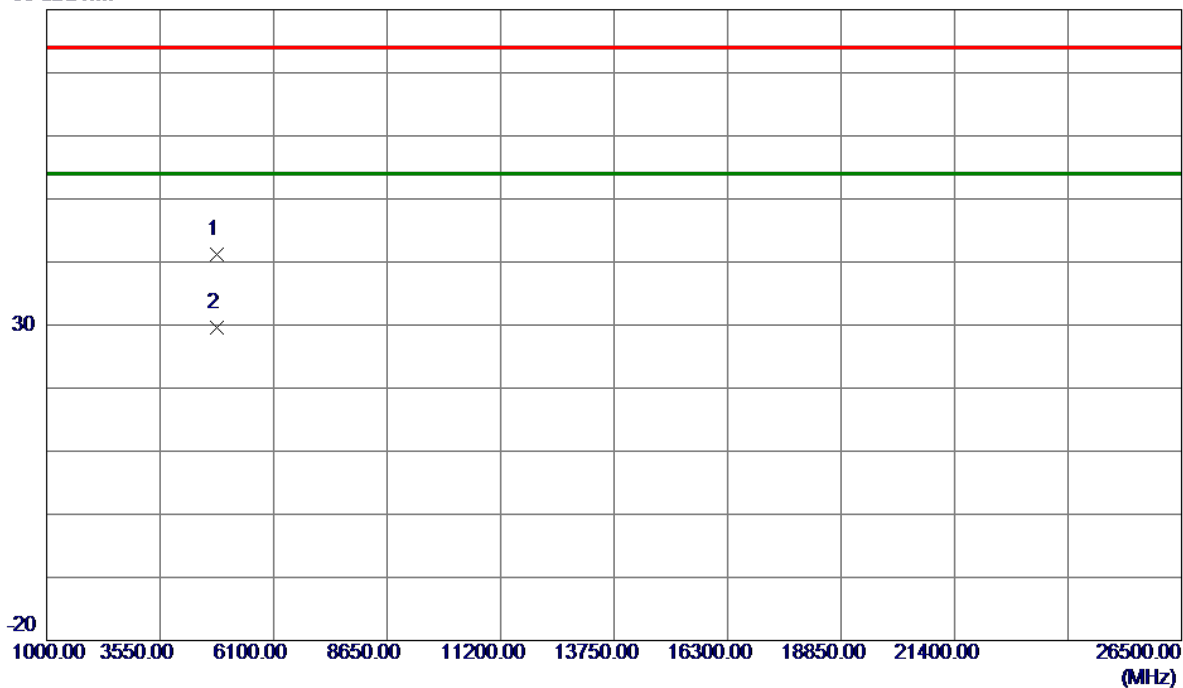


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	39.98	10.03	50.01	74.00	-23.99	Peak	
2	2390.0000	29.12	10.03	39.15	54.00	-14.85	AVG	
3 *	2411.2000	87.43	10.09	97.52	54.00	43.52	AVG	No Limit
4	2413.3500	90.91	10.10	101.01	74.00	27.01	Peak	No Limit

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

Horizontal

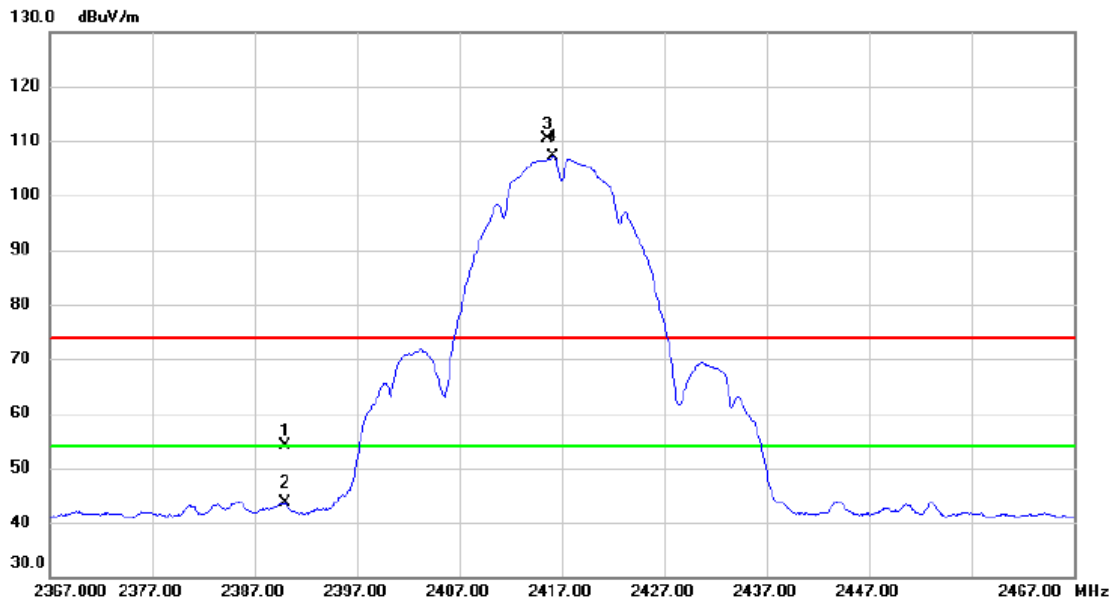
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4819.6250	34.81	6.31	41.12	74.00	-32.88	Peak	
2 *	4825.8350	23.30	6.34	29.64	54.00	-24.36	AVG	

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

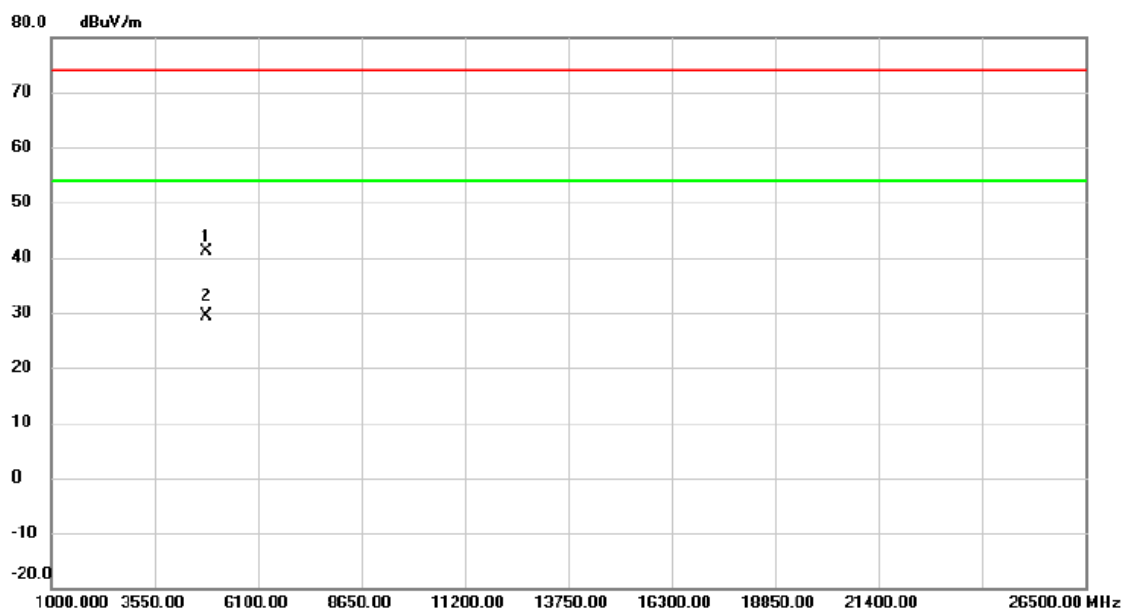
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	44.12	10.03	54.15	74.00	-19.85	peak	
2		2390.000	33.51	10.03	43.54	54.00	-10.46	AVG	
3	X	2415.600	100.29	10.10	110.39	74.00	36.39	peak	No Limit
4	*	2416.200	97.07	10.10	107.17	54.00	53.17	AVG	No Limit

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

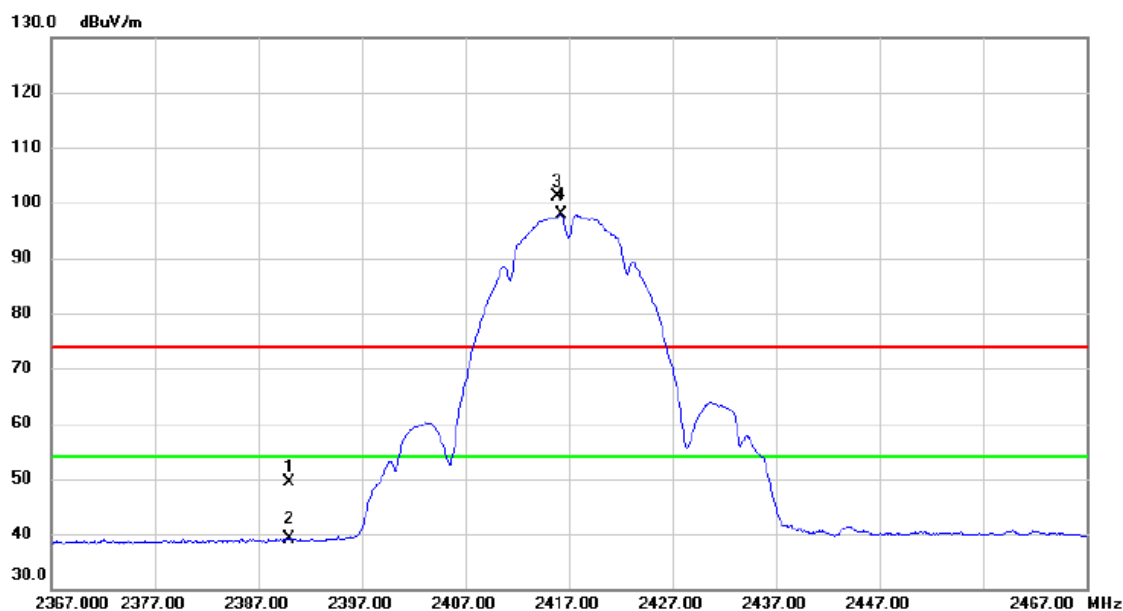
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4834.160	34.83	6.37	41.20	74.00	-32.80	peak	
2	*	4835.035	22.99	6.38	29.37	54.00	-24.63	AVG	

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

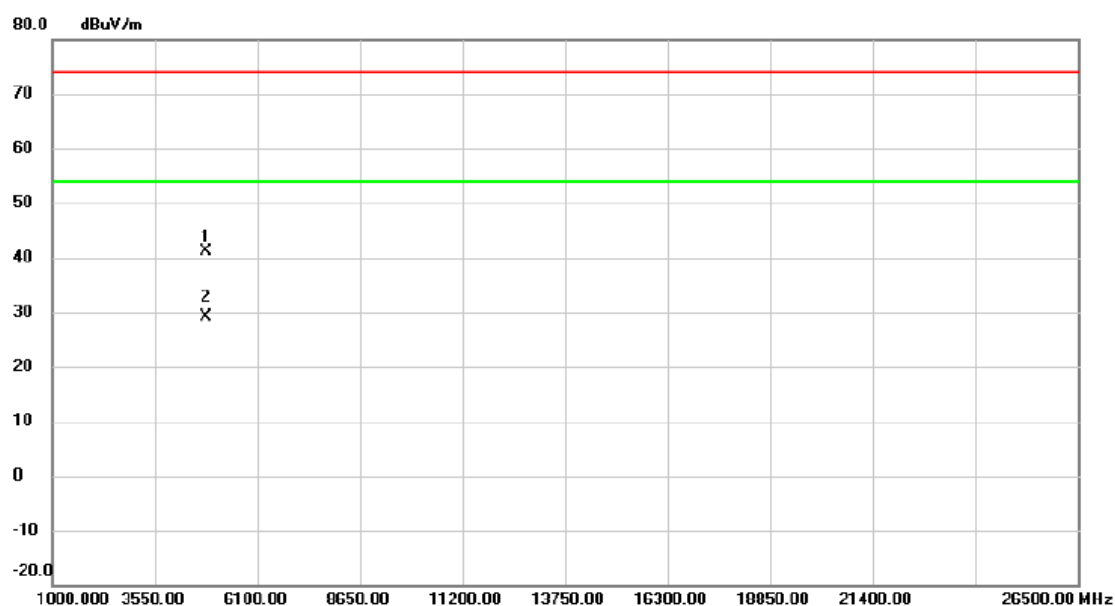
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	39.24	10.03	49.27	74.00	-24.73	peak	
2		2390.000	29.17	10.03	39.20	54.00	-14.80	AVG	
3	X	2415.800	91.10	10.10	101.20	74.00	27.20	peak	No Limit
4	*	2416.250	87.87	10.10	97.97	54.00	43.97	AVG	No Limit

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

Horizontal

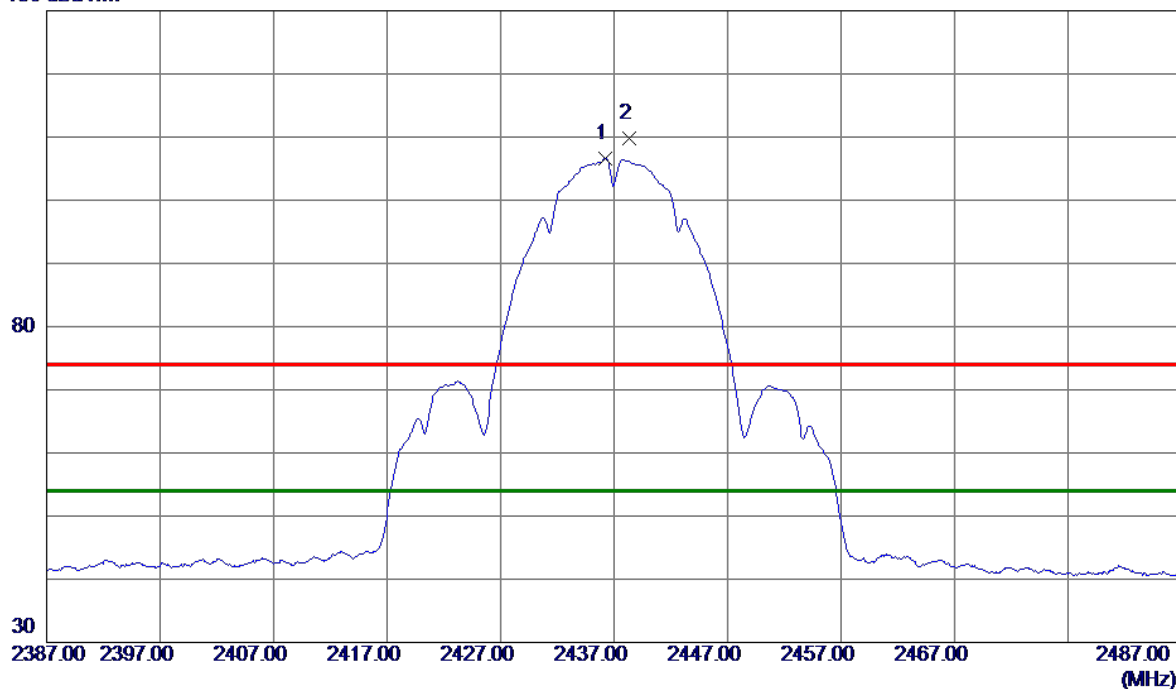


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4830.355	34.85	6.35	41.20	74.00	-32.80	peak	
2	*	4837.250	22.82	6.38	29.20	54.00	-24.80	AVG	

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

Vertical

130 dBuV/m

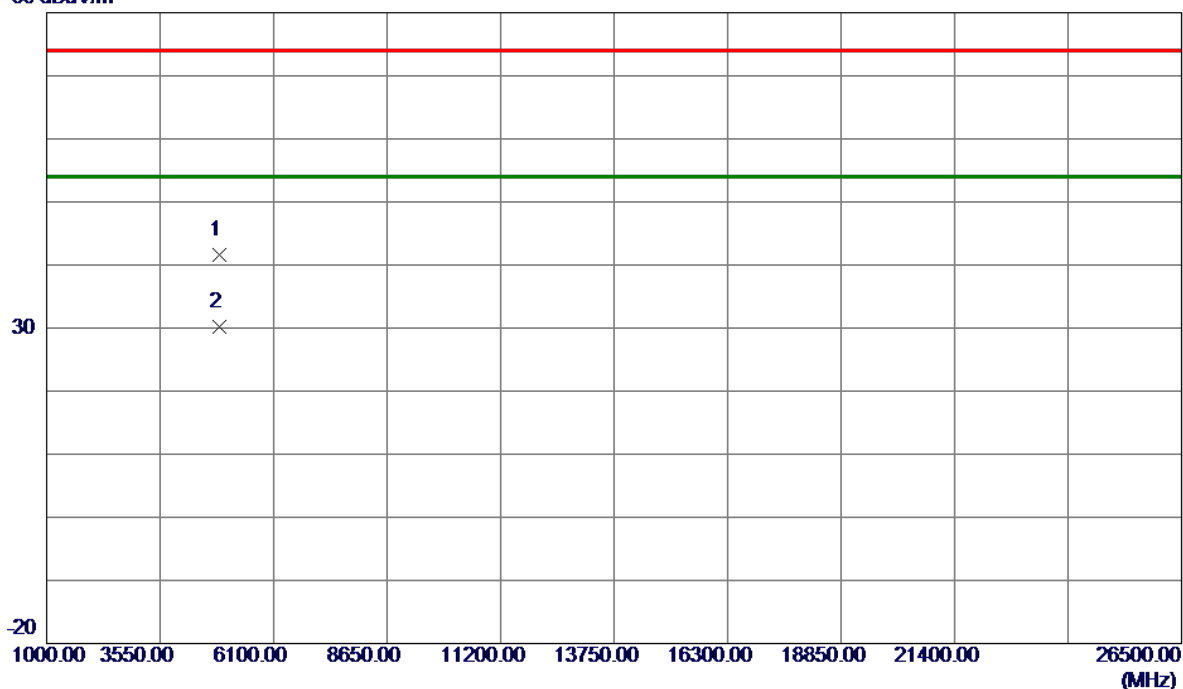


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2500	96.50	10.16	106.66	54.00	52.66	AVG	No Limit
2	2438.3000	99.67	10.17	109.84	74.00	35.84	Peak	No Limit

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

Vertical

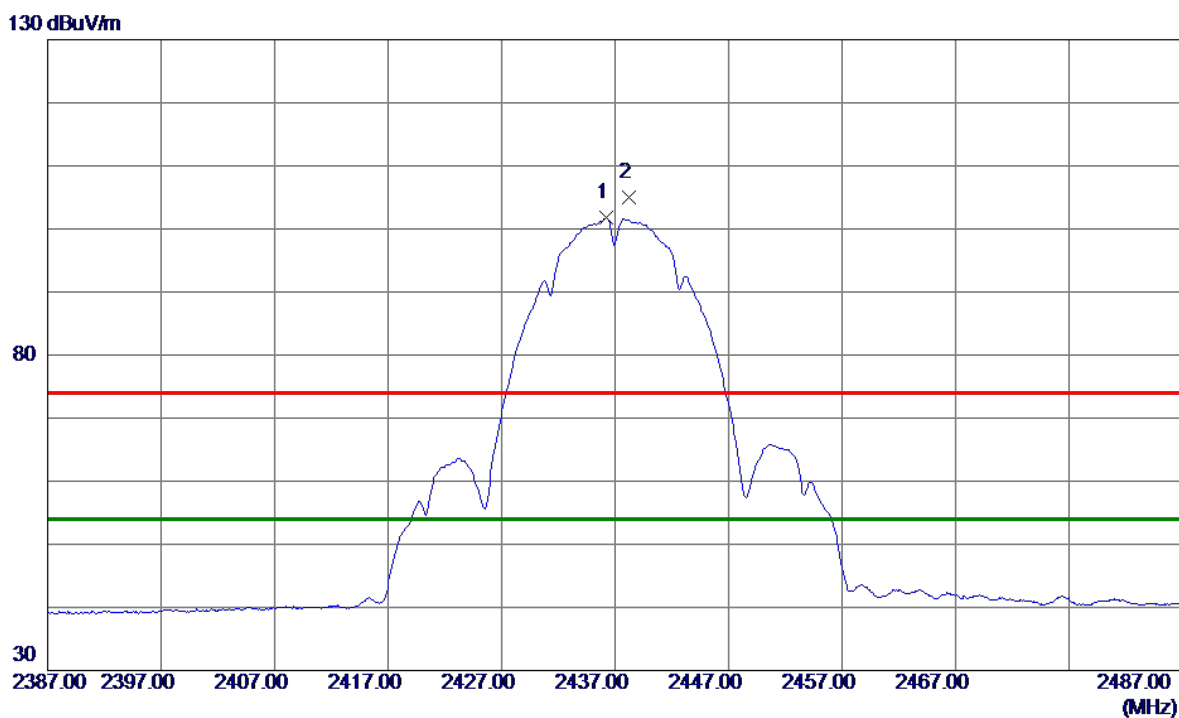
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4870.5250	35.05	6.50	41.55	74.00	-32.45	Peak	
2 *	4878.0850	23.59	6.53	30.12	54.00	-23.88	AVG	

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

Horizontal

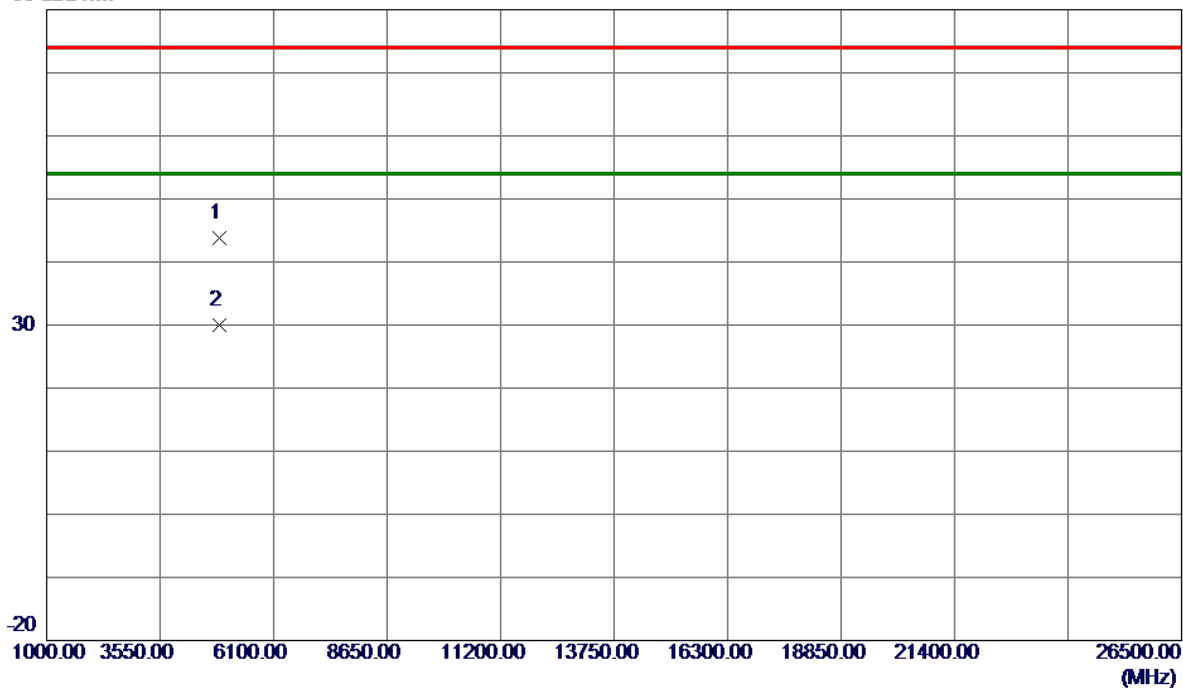


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2436.2000	91.57	10.16	101.73	54.00	47.73	AVG	No Limit
2	2438.2500	94.81	10.17	104.98	74.00	30.98	Peak	No Limit

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

Horizontal

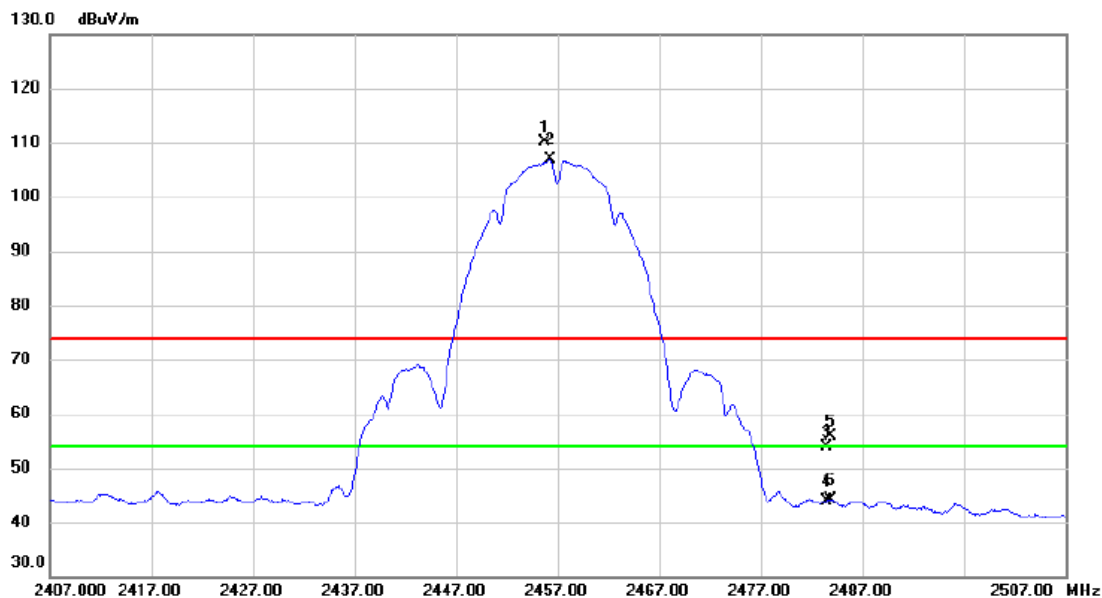
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4869.6200	37.29	6.50	43.79	74.00	-30.21	Peak	
2 *	4873.6100	23.56	6.51	30.07	54.00	-23.93	AVG	

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

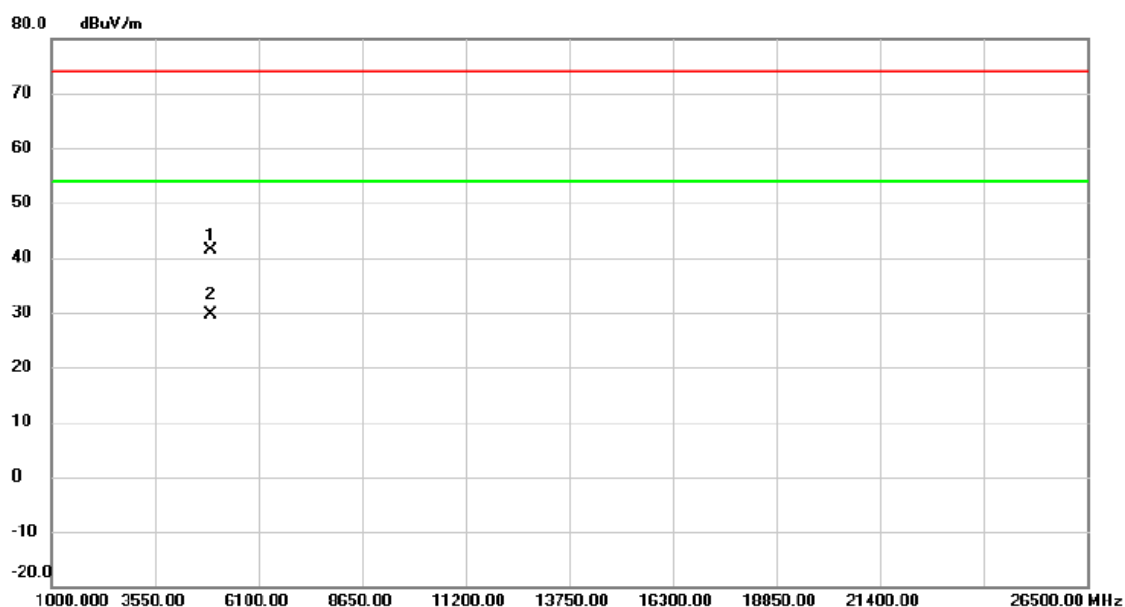
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2455.750	99.86	10.21	110.07	74.00	36.07	peak	No Limit
2	*	2456.250	96.70	10.22	106.92	54.00	52.92	AVG	No Limit
3		2483.500	43.66	10.29	53.95	74.00	-20.05	peak	
4		2483.500	33.70	10.29	43.99	54.00	-10.01	AVG	
5		2483.800	45.56	10.29	55.85	74.00	-18.15	peak	
6		2483.800	33.91	10.29	44.20	54.00	-9.80	AVG	

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

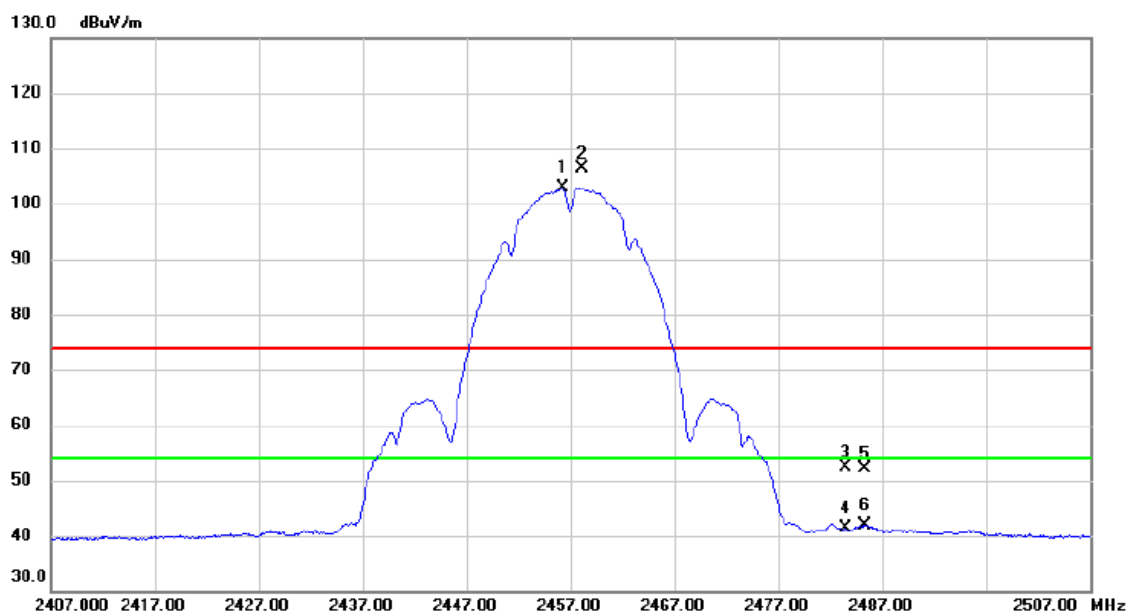
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4914.370	34.62	6.66	41.28	74.00	-32.72	peak	
2	*	4915.645	23.03	6.67	29.70	54.00	-24.30	AVG	

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

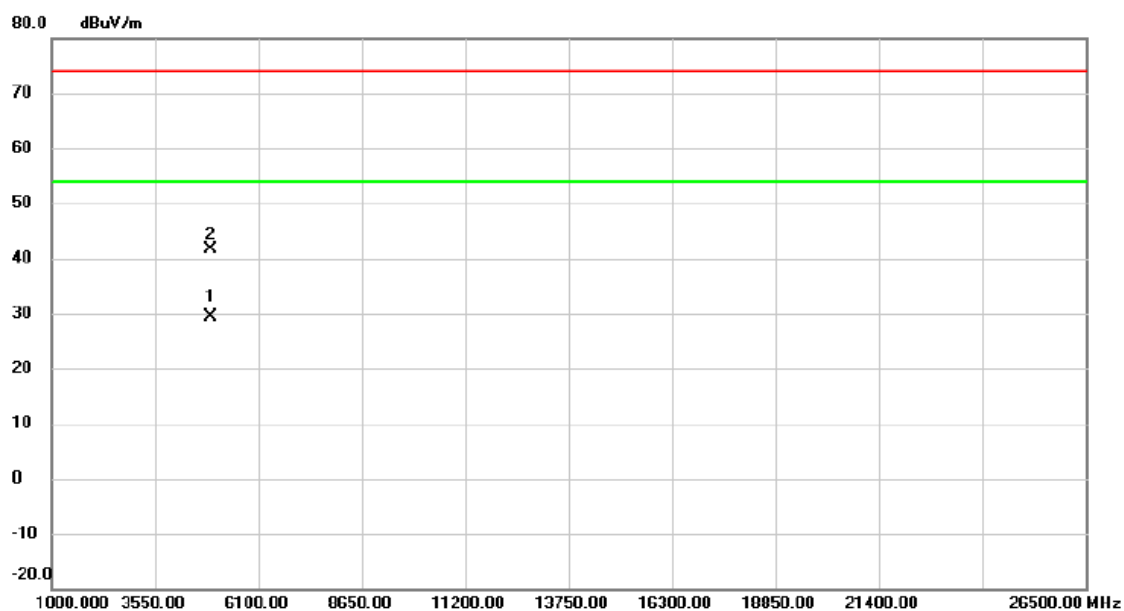
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2456.250	92.77	10.22	102.99	54.00	48.99	AVG	No Limit
2	X	2458.200	96.06	10.22	106.28	74.00	32.28	peak	No Limit
3		2483.500	42.04	10.29	52.33	74.00	-21.67	peak	
4		2483.500	30.98	10.29	41.27	54.00	-12.73	AVG	
5		2485.350	41.82	10.30	52.12	74.00	-21.88	peak	
6		2485.350	31.61	10.30	41.91	54.00	-12.09	AVG	

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

Horizontal

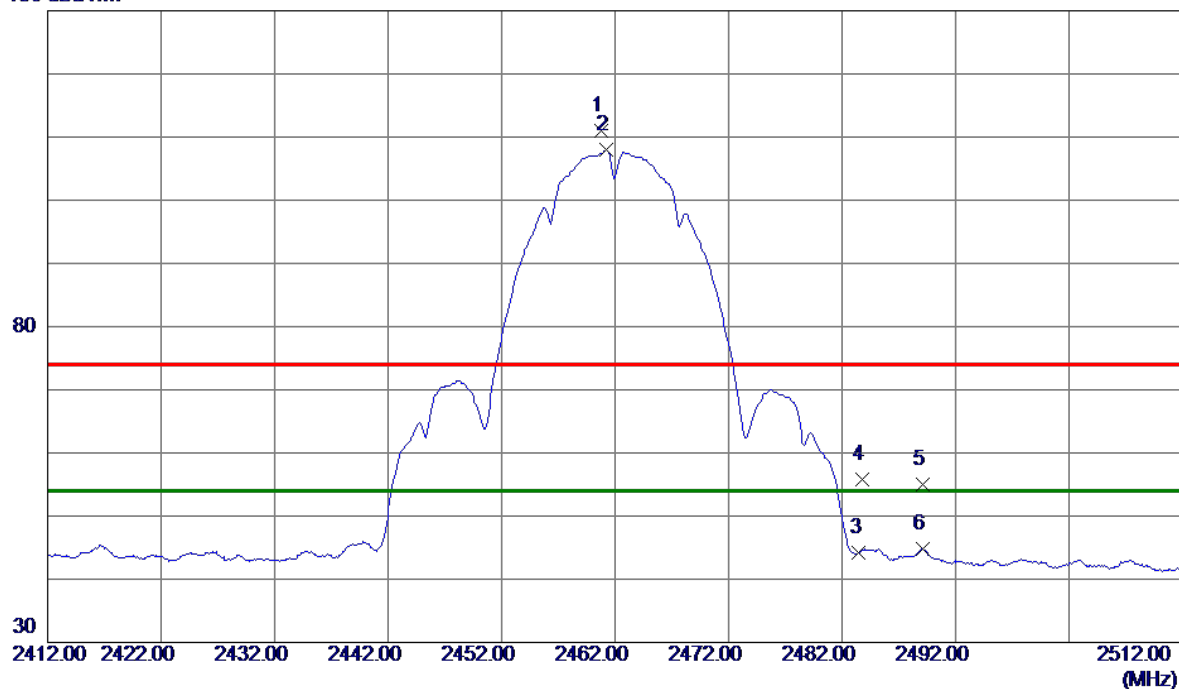


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4911.030	22.75	6.65	29.40	54.00	-24.60	AVG	
2		4912.625	34.92	6.66	41.58	74.00	-32.42	peak	

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

Vertical

130 dBuV/m

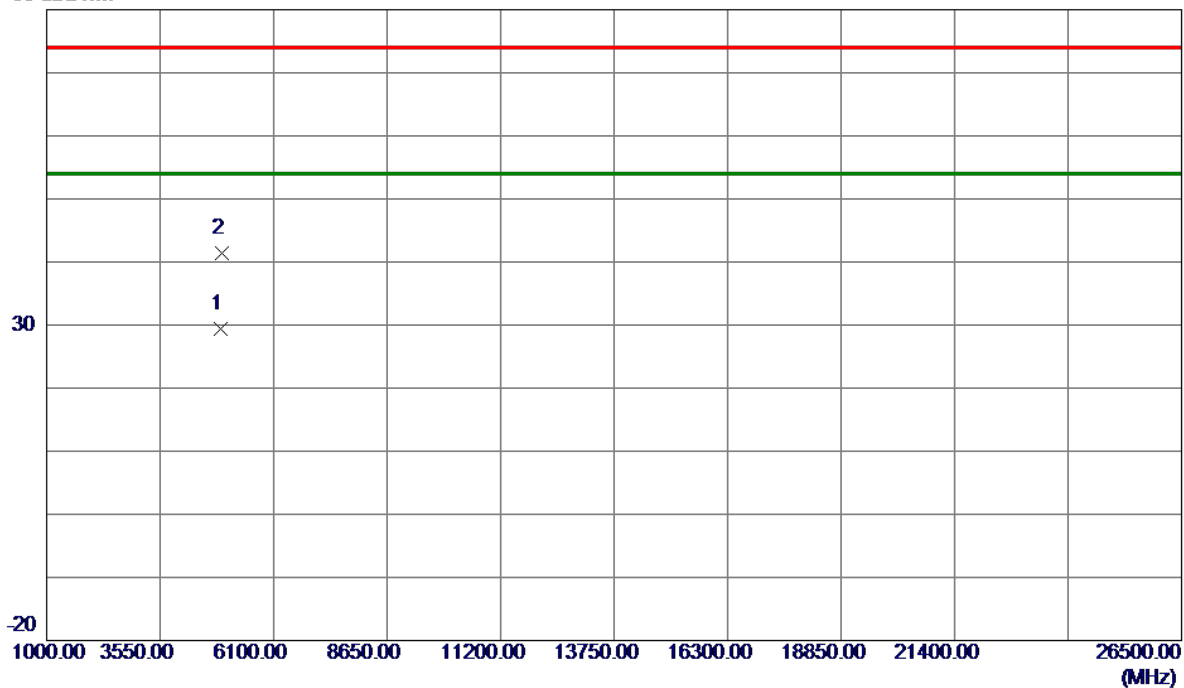


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.8000	100.85	10.23	111.08	74.00	37.08	Peak	No Limit
2 *	2461.2500	97.68	10.23	107.91	54.00	53.91	AVG	No Limit
3	2483.5000	33.87	10.29	44.16	54.00	-9.84	AVG	
4	2483.8000	45.46	10.29	55.75	74.00	-18.25	Peak	
5	2489.1000	44.68	10.31	54.99	74.00	-19.01	Peak	
6	2489.1000	34.55	10.31	44.86	54.00	-9.14	AVG	

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

Vertical

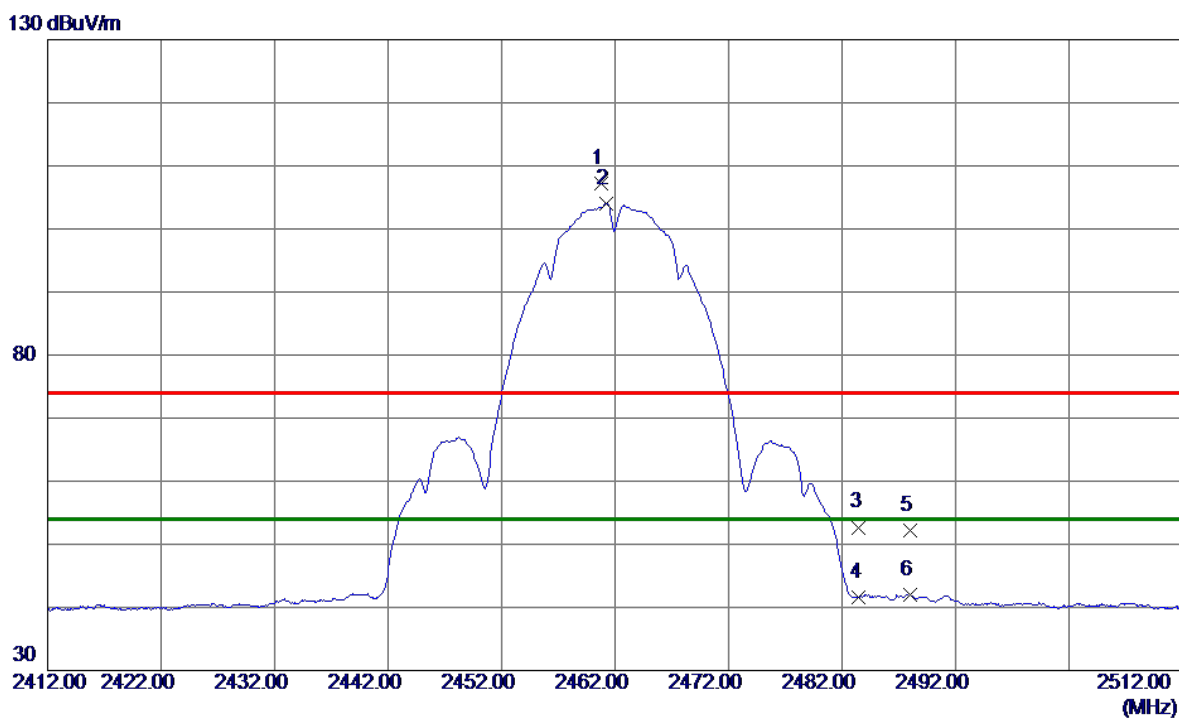
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4919.9900	22.73	6.68	29.41	54.00	-24.59	AVG	
2	4924.3500	34.63	6.70	41.33	74.00	-32.67	Peak	

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

Horizontal

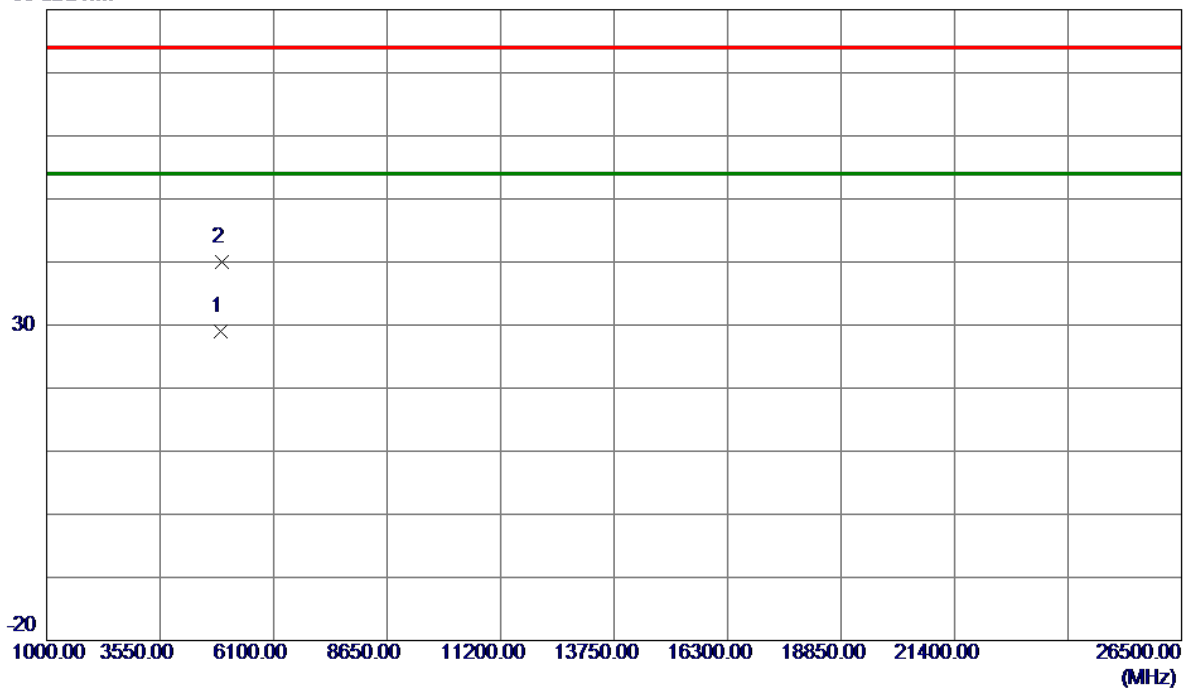


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.7500	96.91	10.23	107.14	74.00	33.14	Peak	No Limit
2 *	2461.2500	93.81	10.23	104.04	54.00	50.04	AVG	No Limit
3	2483.5000	42.41	10.29	52.70	74.00	-21.30	Peak	
4	2483.5000	31.40	10.29	41.69	54.00	-12.31	AVG	
5	2488.0500	41.90	10.31	52.21	74.00	-21.79	Peak	
6	2488.0500	31.73	10.31	42.04	54.00	-11.96	AVG	

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

Horizontal

80 dBuV/m

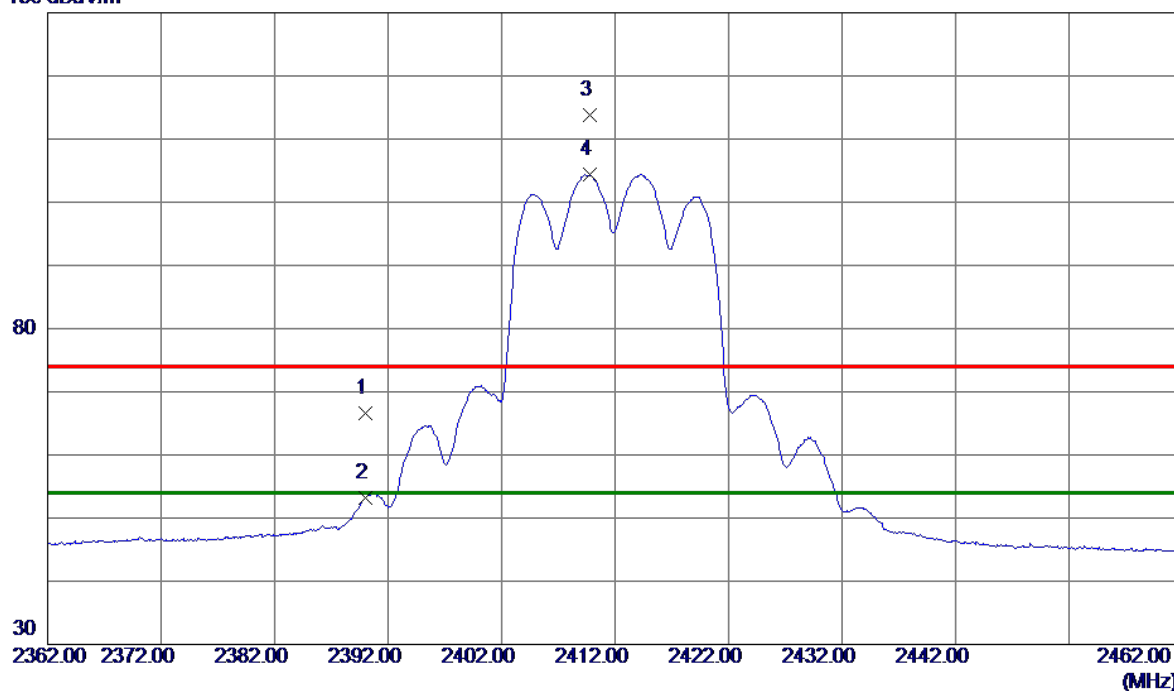


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4919.7200	22.25	6.68	28.93	54.00	-25.07	AVG	
2	4926.8200	33.24	6.71	39.95	74.00	-34.05	Peak	

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

Vertical

130 dBuV/m

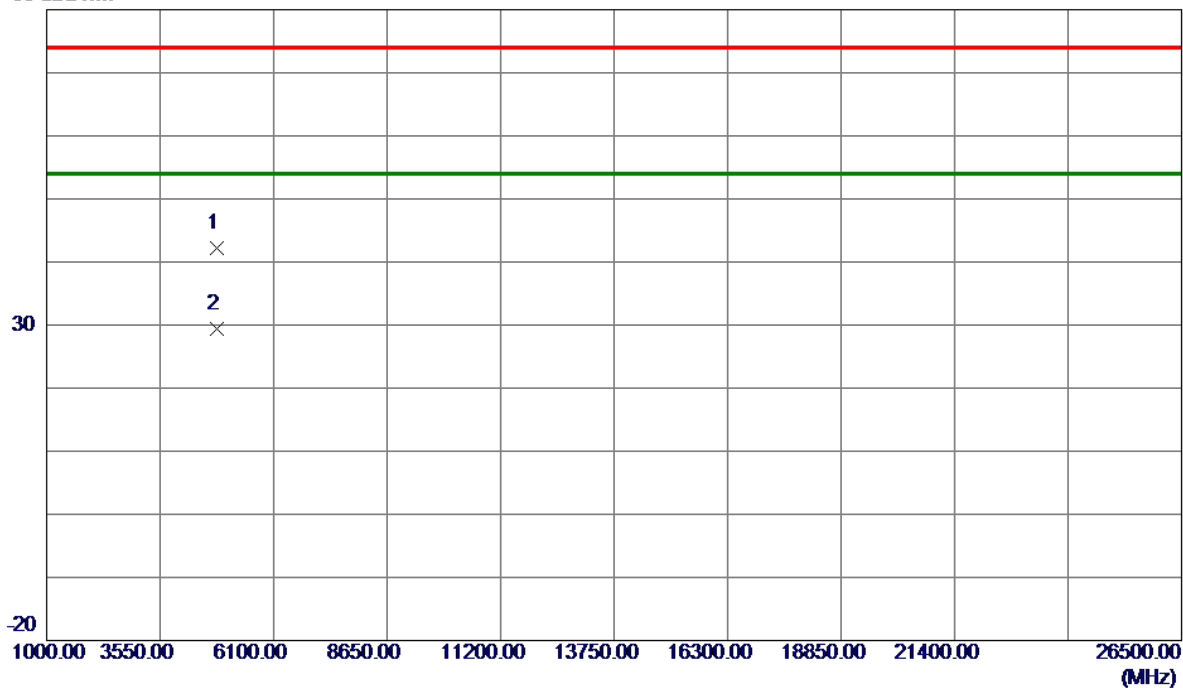


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.57	10.03	66.60	74.00	-7.40	Peak	
2	2390.0000	43.17	10.03	53.20	54.00	-0.80	AVG	
3	2409.7500	103.64	10.09	113.73	74.00	39.73	Peak	No Limit
4 *	2409.7500	94.31	10.09	104.40	54.00	50.40	AVG	No Limit

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

Vertical

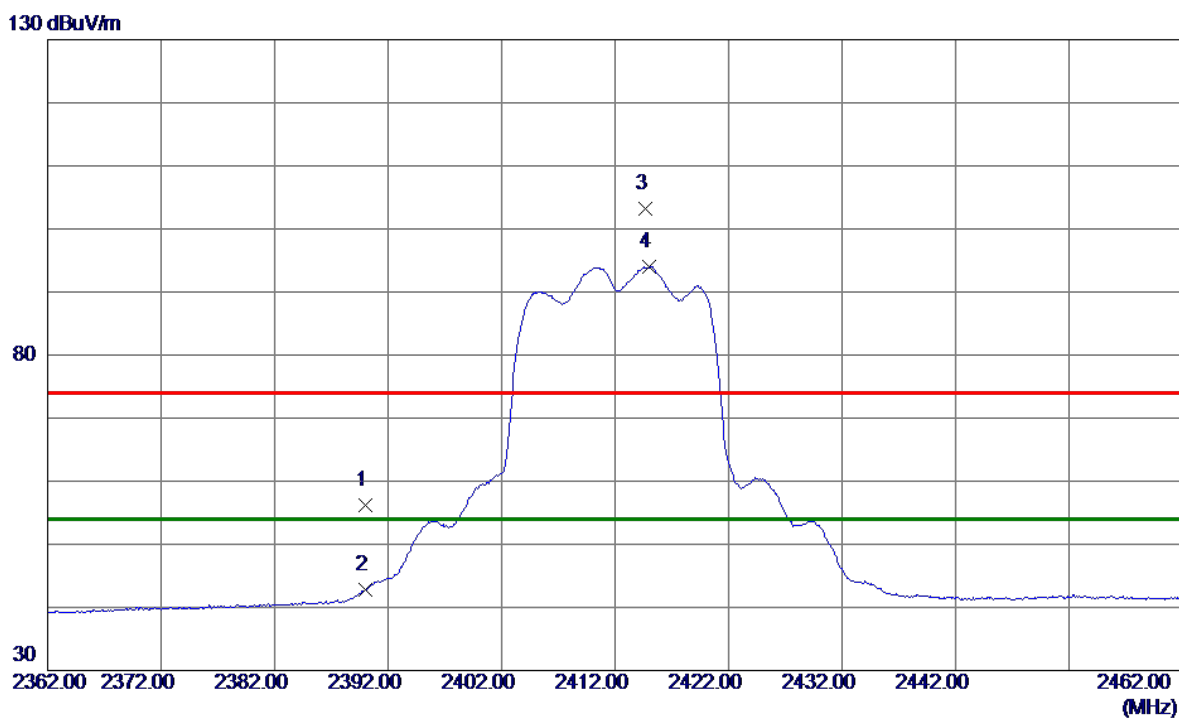
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4821.5299	35.96	6.32	42.28	74.00	-31.72	Peak	
2 *	4825.0099	23.10	6.33	29.43	54.00	-24.57	AVG	

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

Horizontal

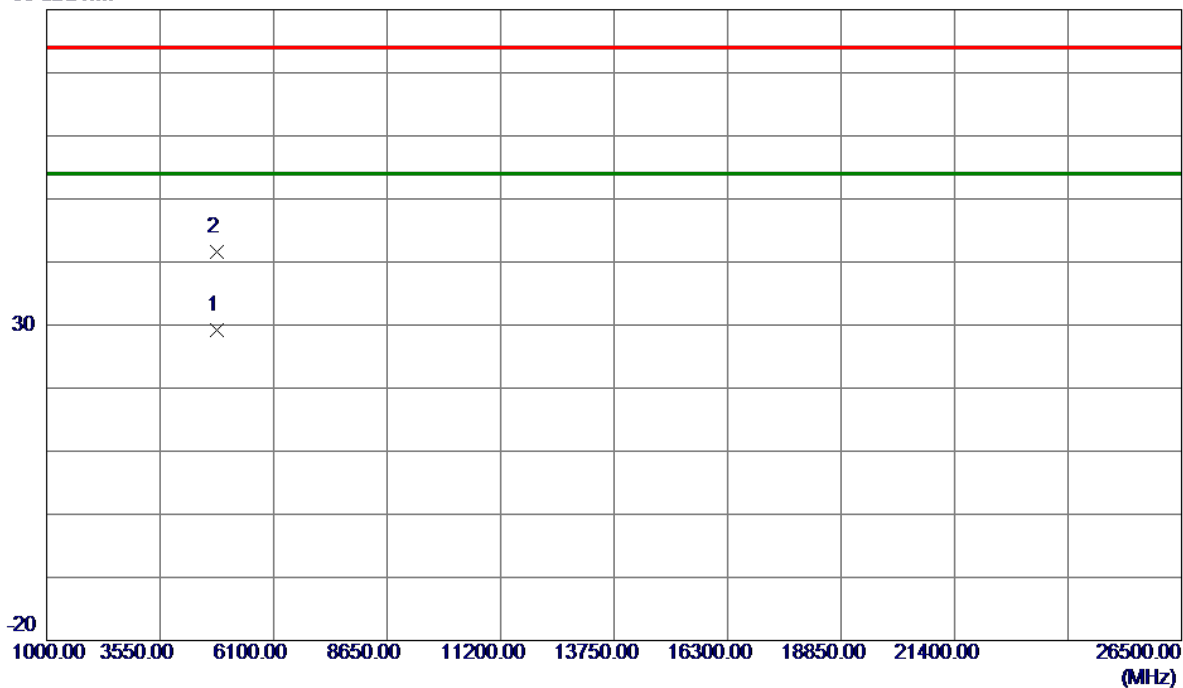


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	46.18	10.03	56.21	74.00	-17.79	Peak	
2	2390.0000	32.83	10.03	42.86	54.00	-11.14	AVG	
3	2414.7000	93.01	10.10	103.11	74.00	29.11	Peak	No Limit
4 *	2414.9500	83.85	10.10	93.95	54.00	39.95	AVG	No Limit

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

Horizontal

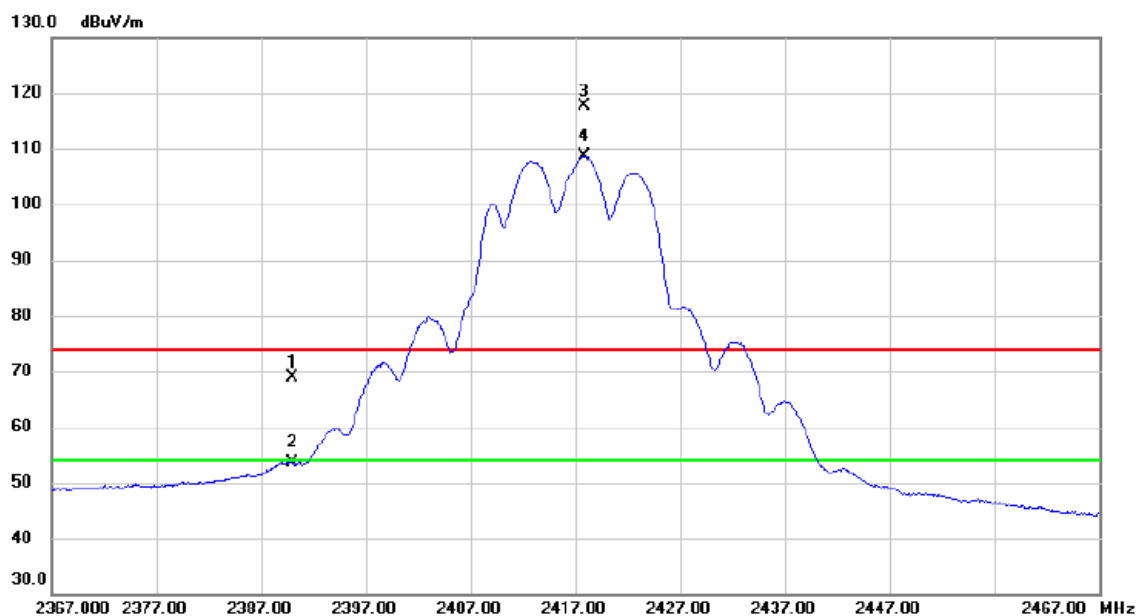
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4821.4550	22.94	6.32	29.26	54.00	-24.74	AVG	
2	4826.2900	35.23	6.34	41.57	74.00	-32.43	Peak	

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

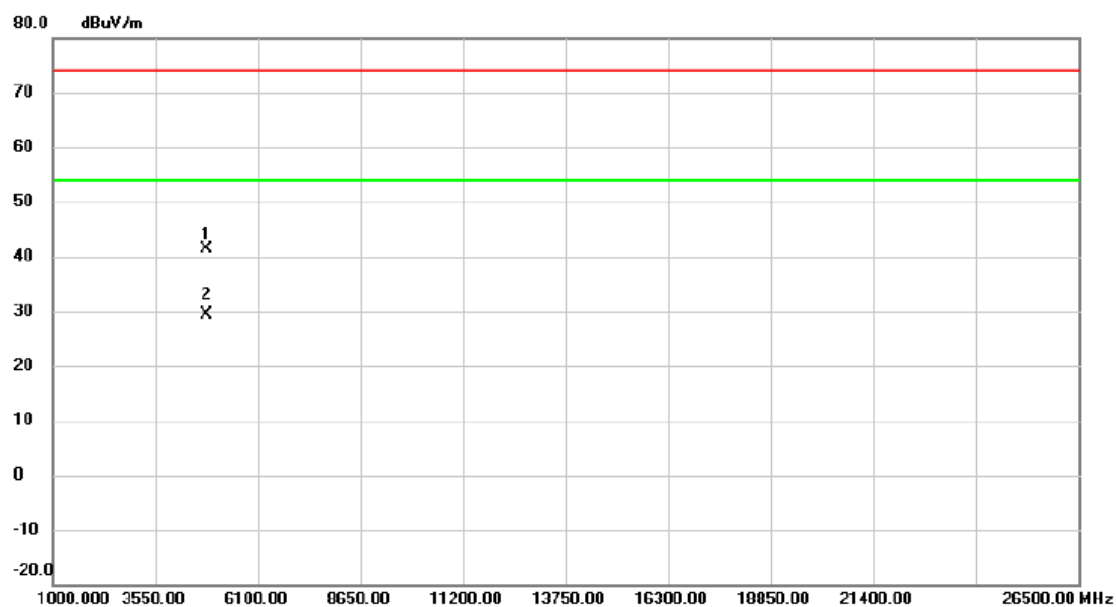
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	58.96	10.03	68.99	74.00	-5.01	peak	
2		2390.000	43.57	10.03	53.60	54.00	-0.40	AVG	
3	X	2417.800	107.55	10.11	117.66	74.00	43.66	peak	No Limit
4	*	2417.900	98.64	10.11	108.75	54.00	54.75	AVG	No Limit

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

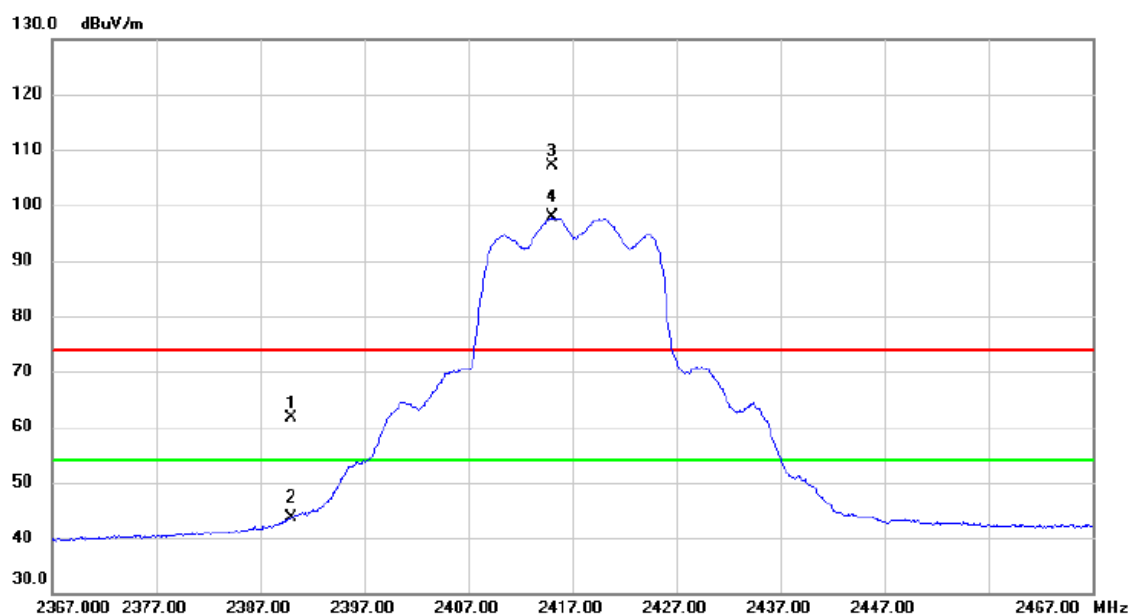
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4829.360	34.91	6.35	41.26	74.00	-32.74	peak	
2	*	4835.680	23.03	6.38	29.41	54.00	-24.59	AVG	

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

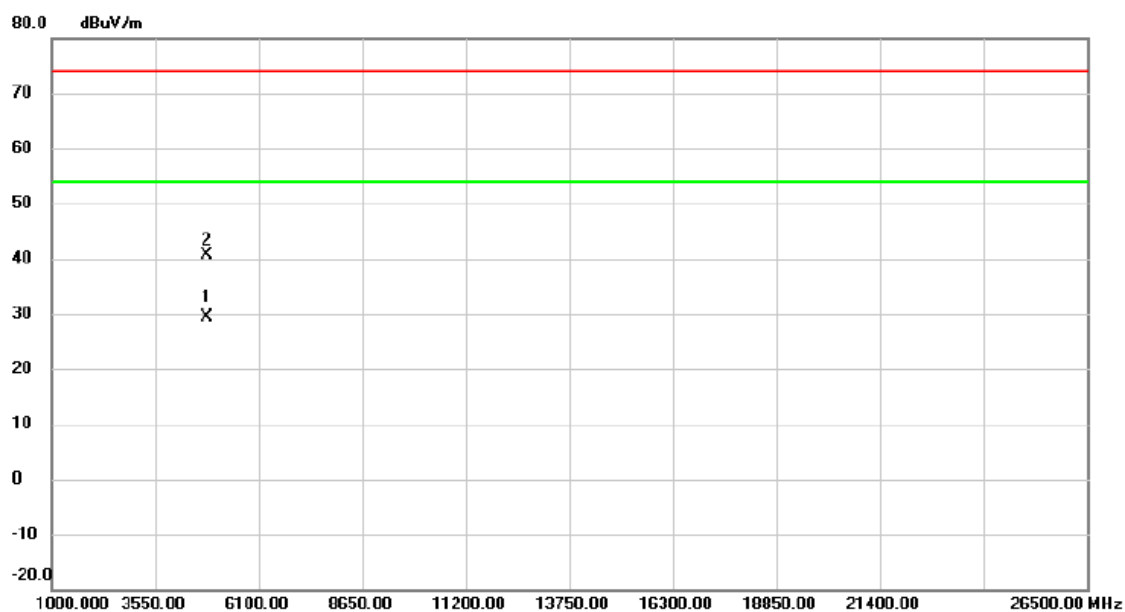
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	51.51	10.03	61.54	74.00	-12.46	peak	
2		2390.000	33.48	10.03	43.51	54.00	-10.49	AVG	
3	X	2415.050	97.08	10.10	107.18	74.00	33.18	peak	No Limit
4	*	2415.050	87.78	10.10	97.88	54.00	43.88	AVG	No Limit

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

Horizontal

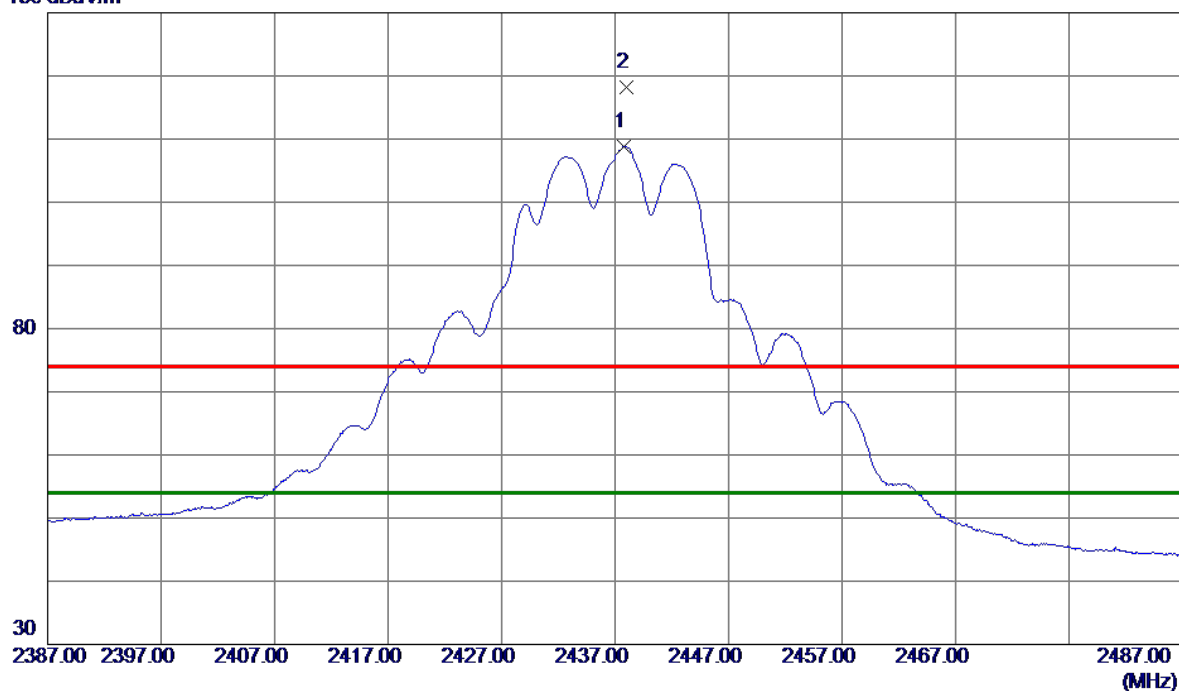


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4838.330	22.87	6.39	29.26	54.00	-24.74	AVG	
2		4838.695	34.13	6.39	40.52	74.00	-33.48	peak	

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

Vertical

130 dBuV/m

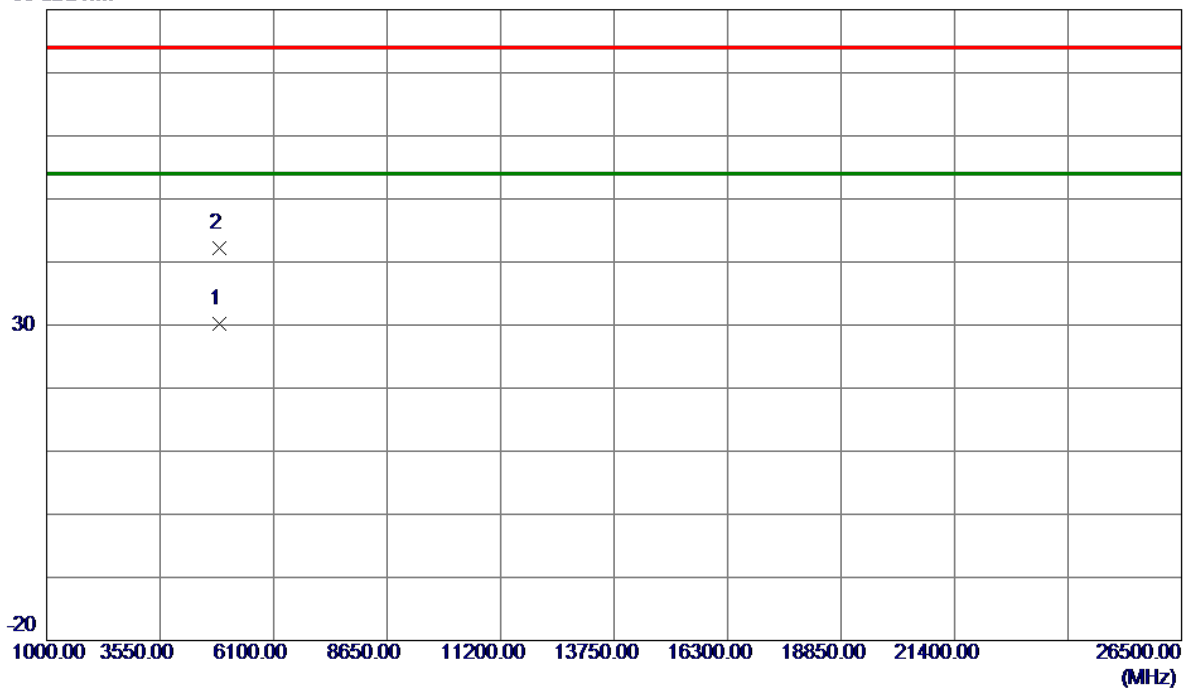


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.8000	98.67	10.16	108.83	54.00	54.83	AVG	No Limit
2	2437.9500	108.00	10.17	118.17	74.00	44.17	Peak	No Limit

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

Vertical

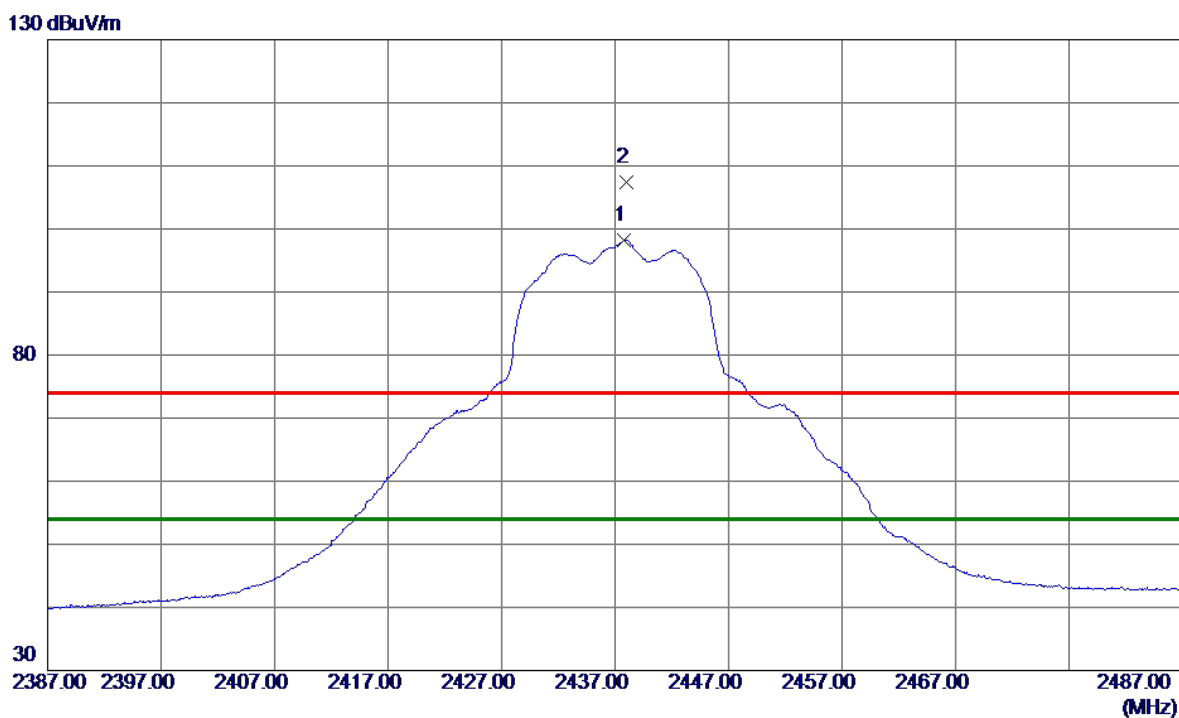
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4870.5400	23.74	6.50	30.24	54.00	-23.76	AVG	
2	4878.8849	35.70	6.53	42.23	74.00	-31.77	Peak	

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

Horizontal

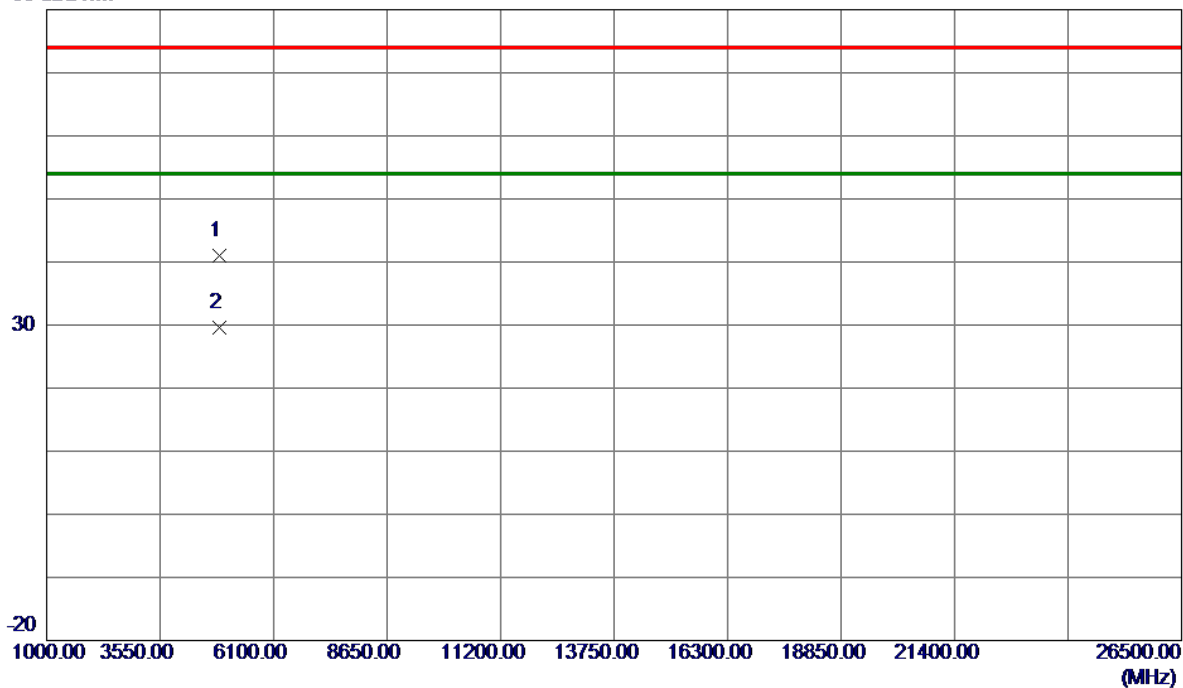


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2437.8000	88.00	10.16	98.16	54.00	44.16	AVG	No Limit
2	2438.0000	97.30	10.17	107.47	74.00	33.47	Peak	No Limit

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

Horizontal

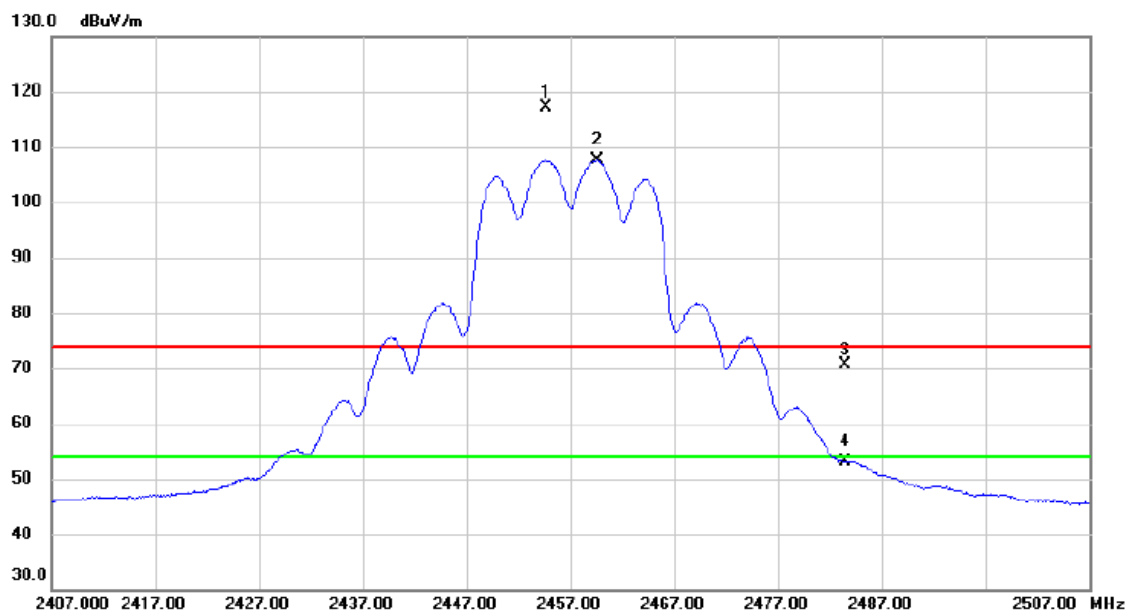
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4871.3800	34.53	6.50	41.03	74.00	-32.97	Peak	
2 *	4874.2400	23.13	6.51	29.64	54.00	-24.36	AVG	

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

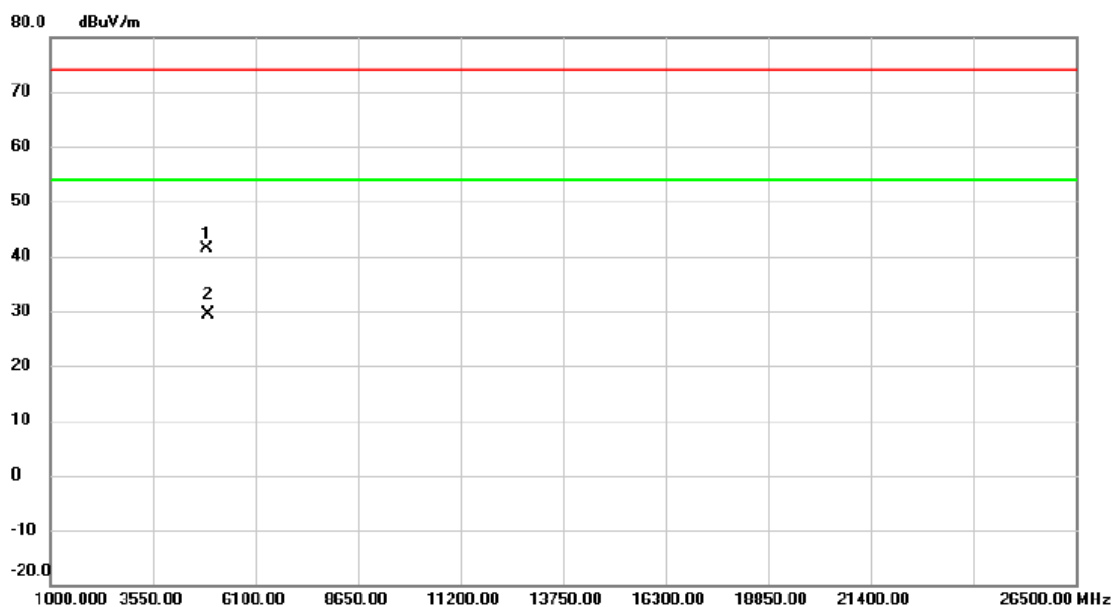
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2454.650	106.87	10.21	117.08	74.00	43.08	peak	No Limit
2	*	2459.600	97.39	10.23	107.62	54.00	53.62	AVG	No Limit
3		2483.500	60.24	10.29	70.53	74.00	-3.47	peak	
4		2483.500	42.83	10.29	53.12	54.00	-0.88	AVG	

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

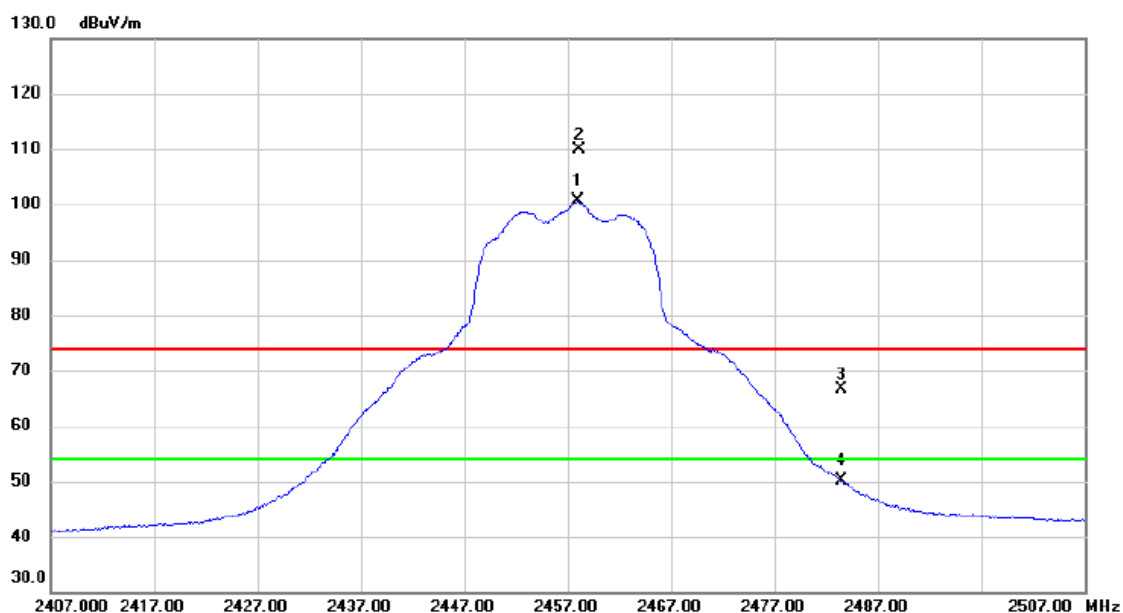
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4909.595	34.78	6.65	41.43	74.00	-32.57	peak	
2	*	4911.685	22.83	6.65	29.48	54.00	-24.52	AVG	

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

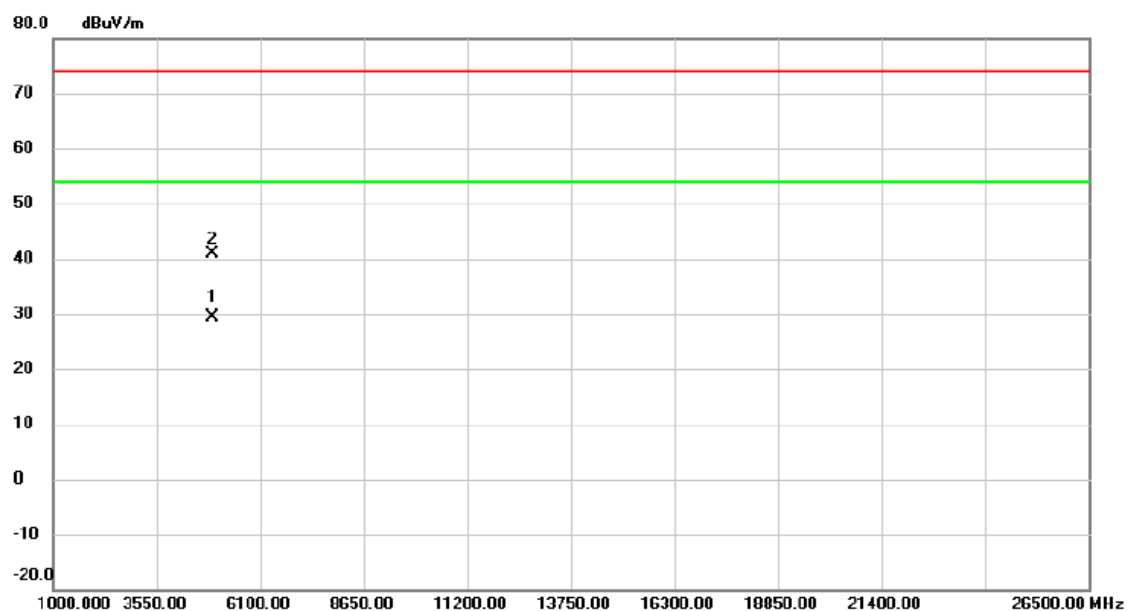
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	2458.000	90.37	10.22	100.59	54.00	46.59	AVG	No Limit
2	X	2458.200	99.64	10.22	109.86	74.00	35.86	peak	No Limit
3		2483.500	56.44	10.29	66.73	74.00	-7.27	peak	
4		2483.500	39.86	10.29	50.15	54.00	-3.85	AVG	

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

Horizontal

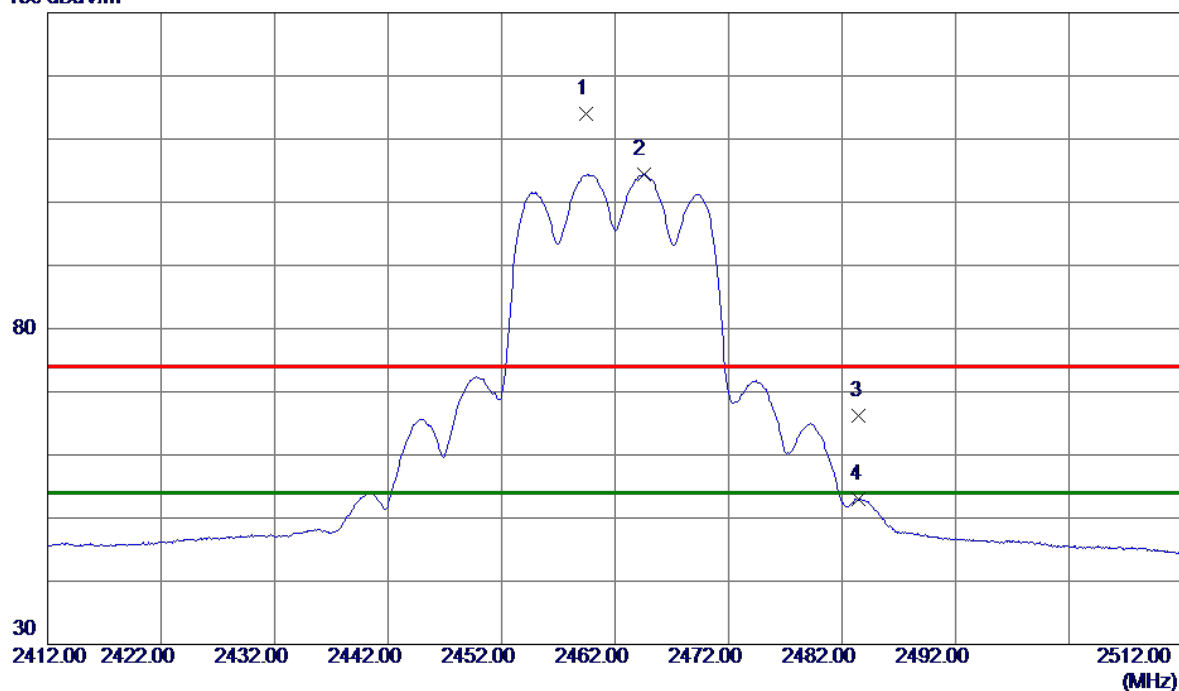


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	4912.010	22.73	6.65	29.38	54.00	-24.62	AVG	
2		4917.485	34.30	6.68	40.98	74.00	-33.02	peak	

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

Vertical

130 dBuV/m

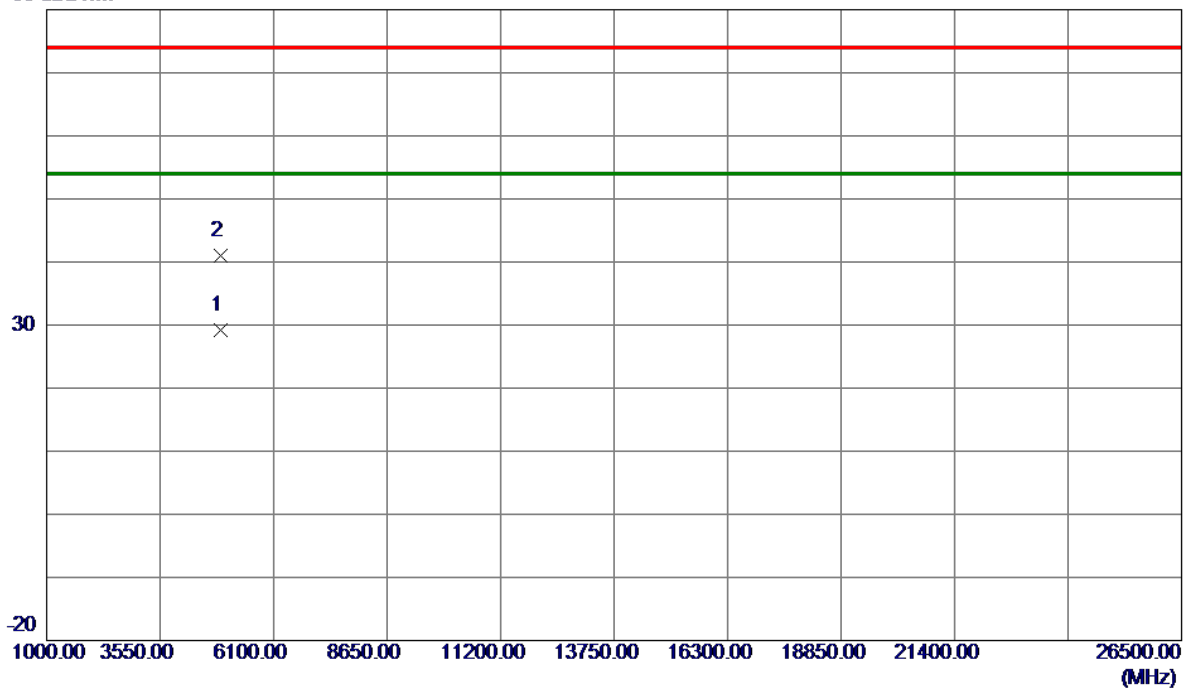


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2459.4000	103.71	10.23	113.94	74.00	39.94	Peak	No Limit
2 *	2464.5000	94.17	10.24	104.41	54.00	50.41	AVG	No Limit
3	2483.5000	55.82	10.29	66.11	74.00	-7.89	Peak	
4	2483.5000	42.77	10.29	53.06	54.00	-0.94	AVG	

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

Vertical

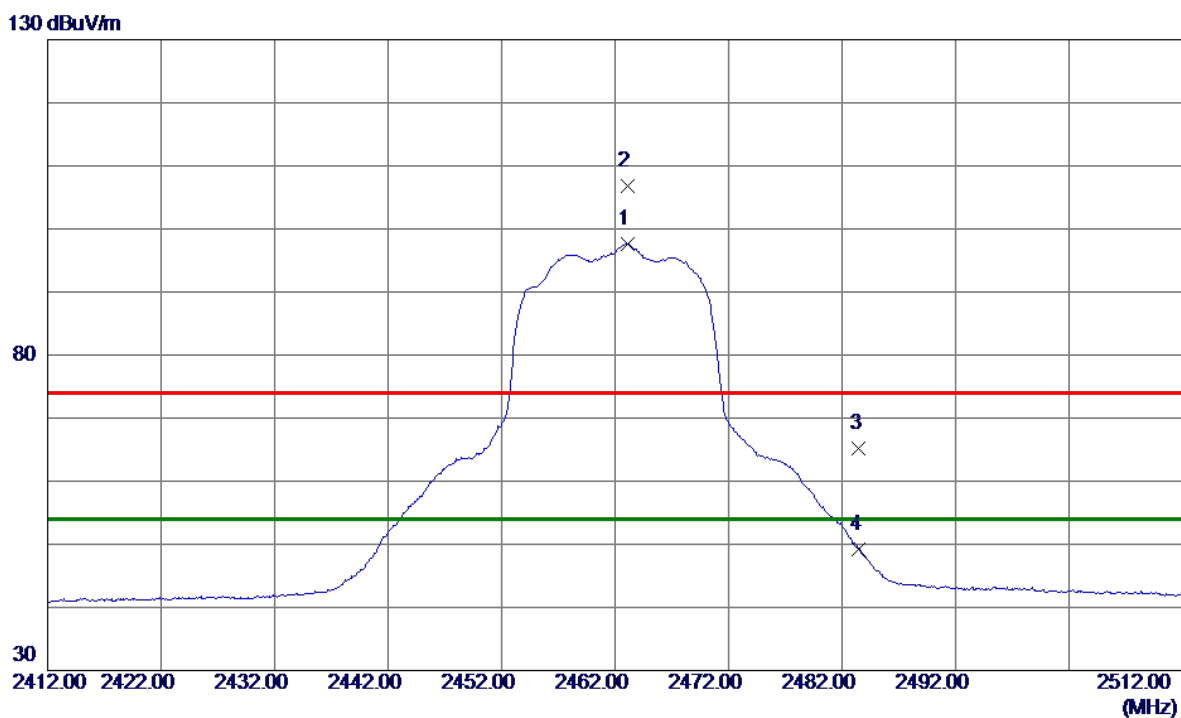
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4921.1100	22.55	6.69	29.24	54.00	-24.76	AVG	
2	4922.4600	34.23	6.69	40.92	74.00	-33.08	Peak	

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

Horizontal

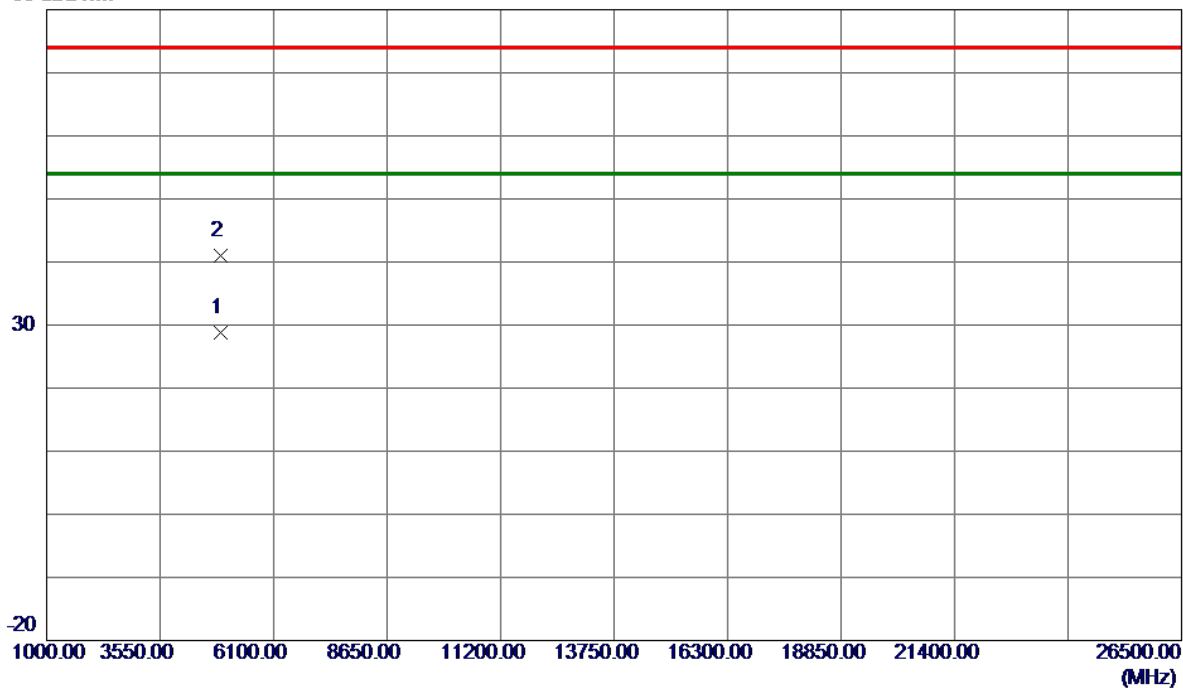


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2463.1000	87.45	10.24	97.69	54.00	43.69	AVG	No Limit
2	2463.1500	96.51	10.24	106.75	74.00	32.75	Peak	No Limit
3	2483.5000	54.97	10.29	65.26	74.00	-8.74	Peak	
4	2483.5000	38.84	10.29	49.13	54.00	-4.87	AVG	

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

Horizontal

80 dBuV/m

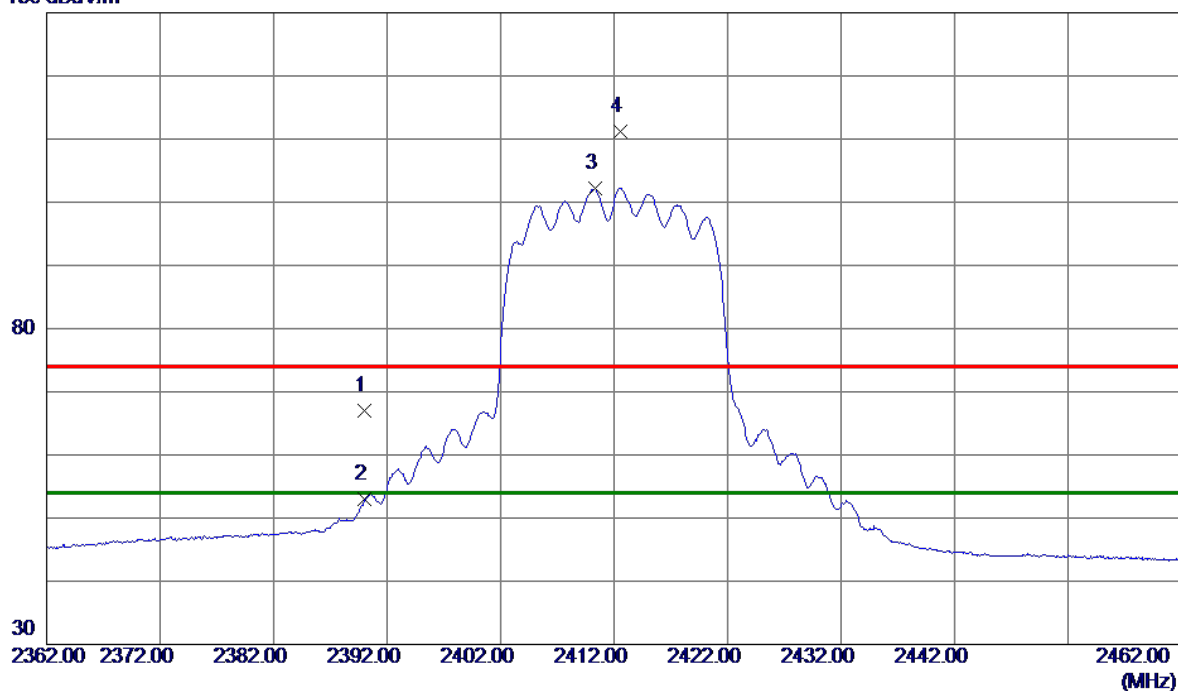


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4922.1300	22.14	6.69	28.83	54.00	-25.17	AVG	
2	4923.0750	34.38	6.70	41.08	74.00	-32.92	Peak	

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

Vertical

130 dBuV/m

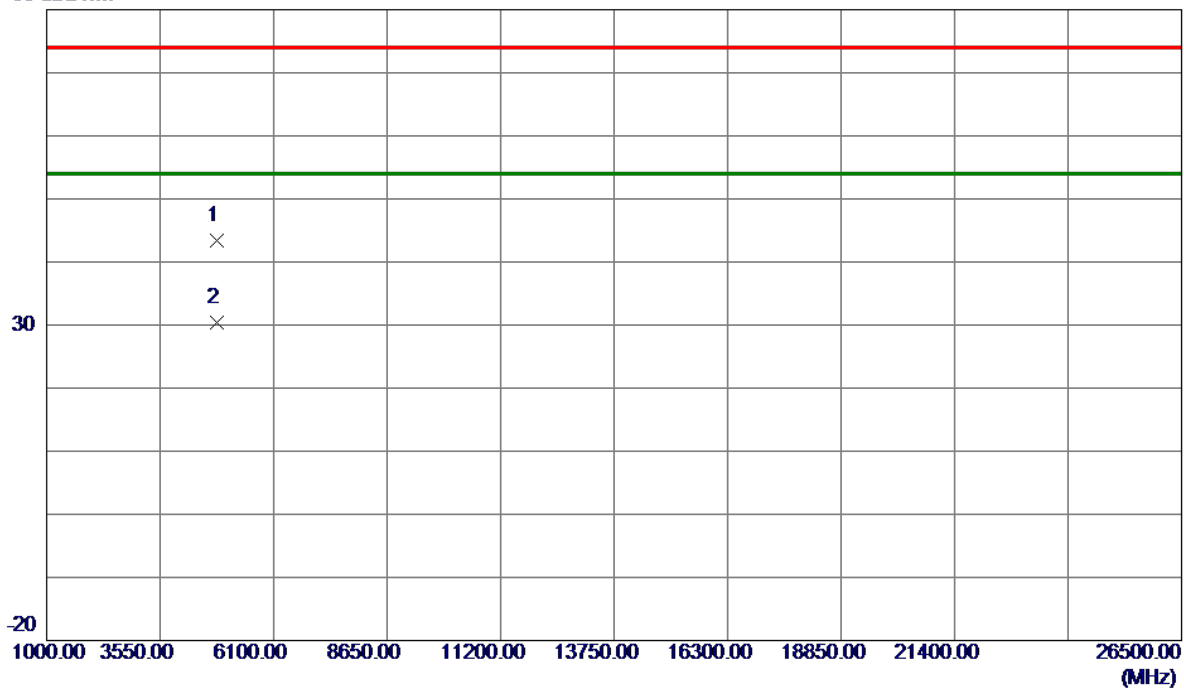


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	56.92	10.03	66.95	74.00	-7.05	Peak	
2	2390.0000	42.91	10.03	52.94	54.00	-1.06	AVG	
3 *	2410.3000	92.14	10.09	102.23	54.00	48.23	AVG	No Limit
4	2412.5500	101.07	10.09	111.16	74.00	37.16	Peak	No Limit

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

Vertical

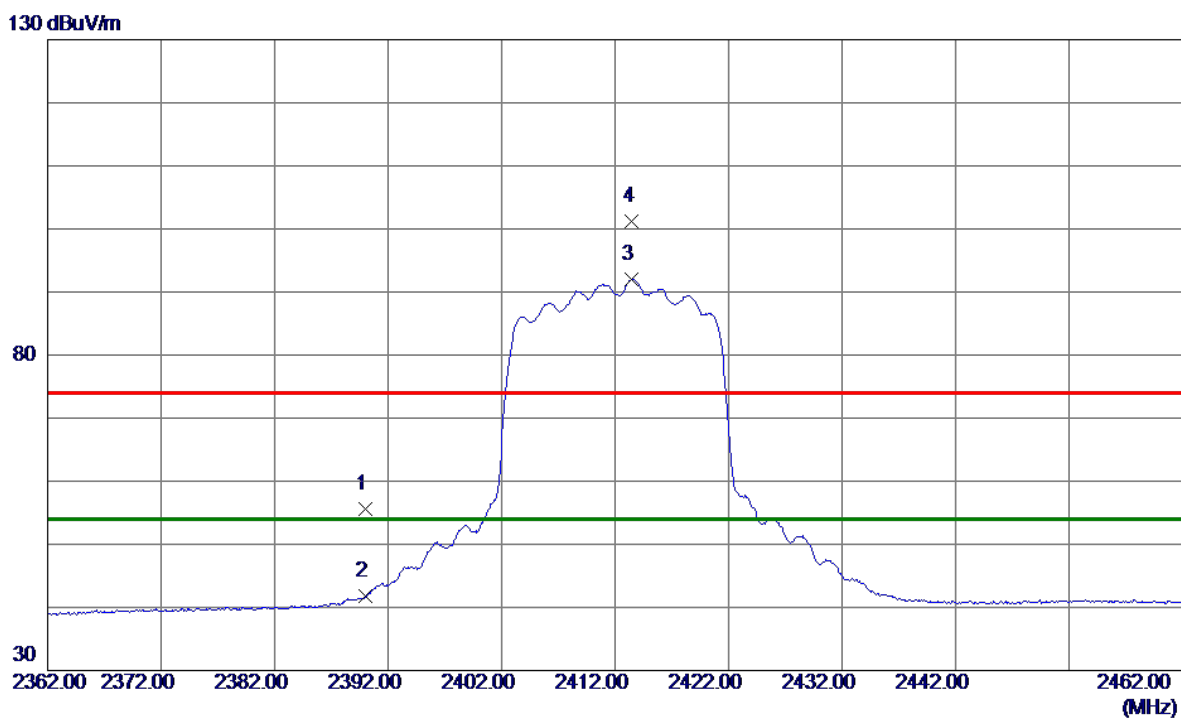
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4821.2650	36.99	6.32	43.31	74.00	-30.69	Peak	
2 *	4822.9300	23.99	6.32	30.31	54.00	-23.69	AVG	

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

Horizontal

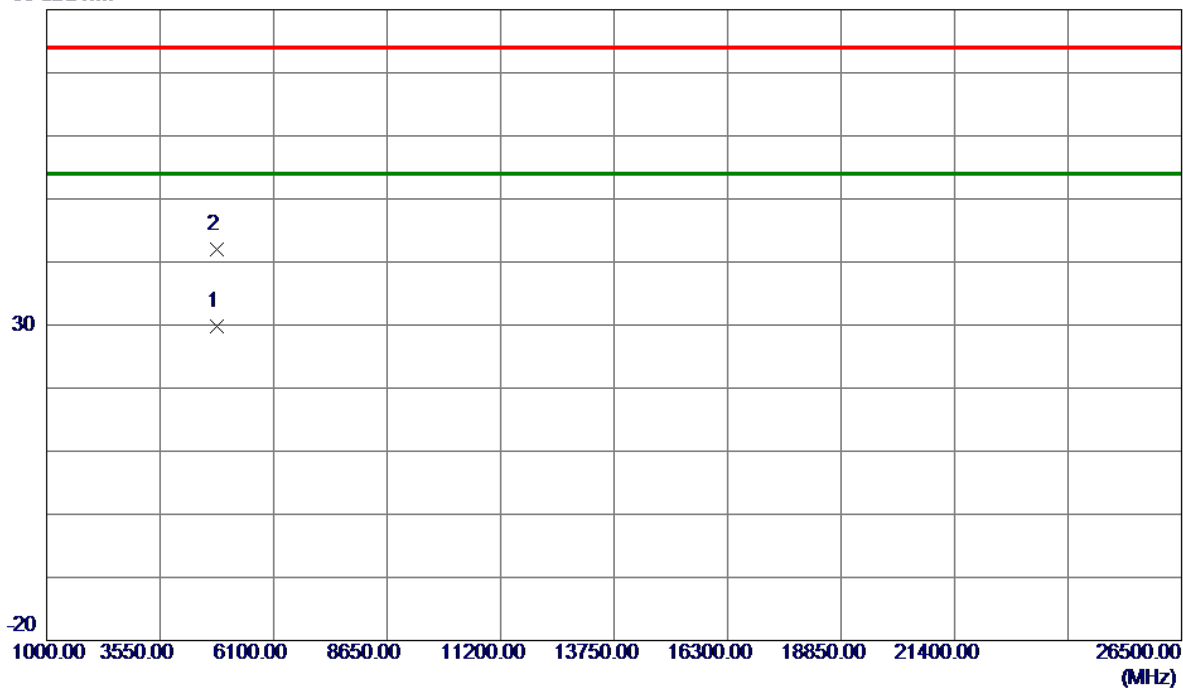


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	45.56	10.03	55.59	74.00	-18.41	Peak	
2	2390.0000	31.76	10.03	41.79	54.00	-12.21	AVG	
3 *	2413.4500	82.00	10.10	92.10	54.00	38.10	AVG	No Limit
4	2413.5000	91.01	10.10	101.11	74.00	27.11	Peak	No Limit

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

Horizontal

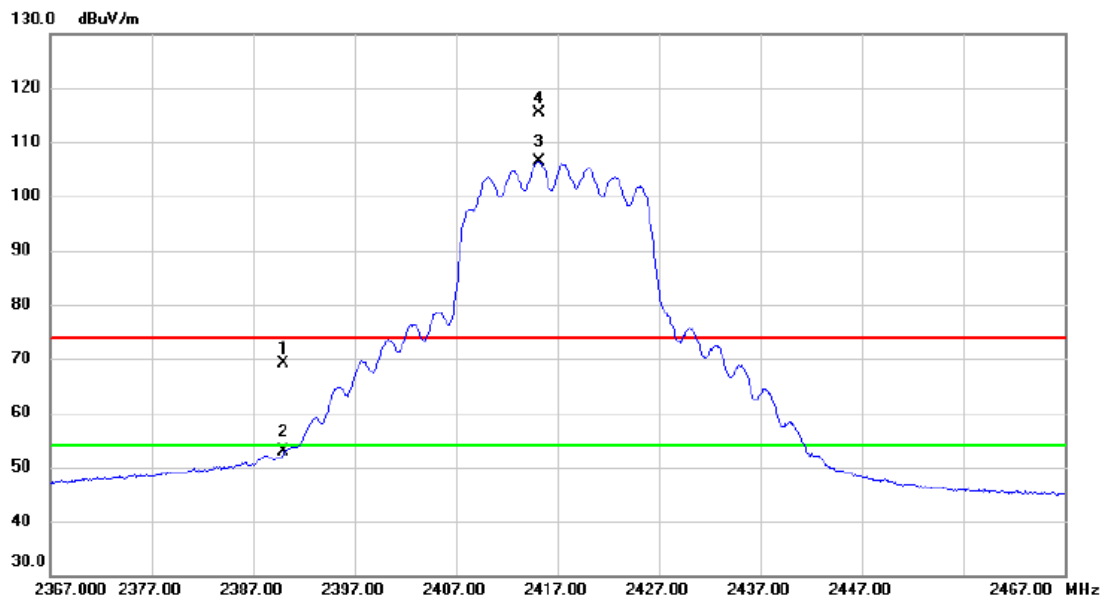
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4822.6450	23.48	6.32	29.80	54.00	-24.20	AVG	
2	4823.8800	35.73	6.33	42.06	74.00	-31.94	Peak	

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

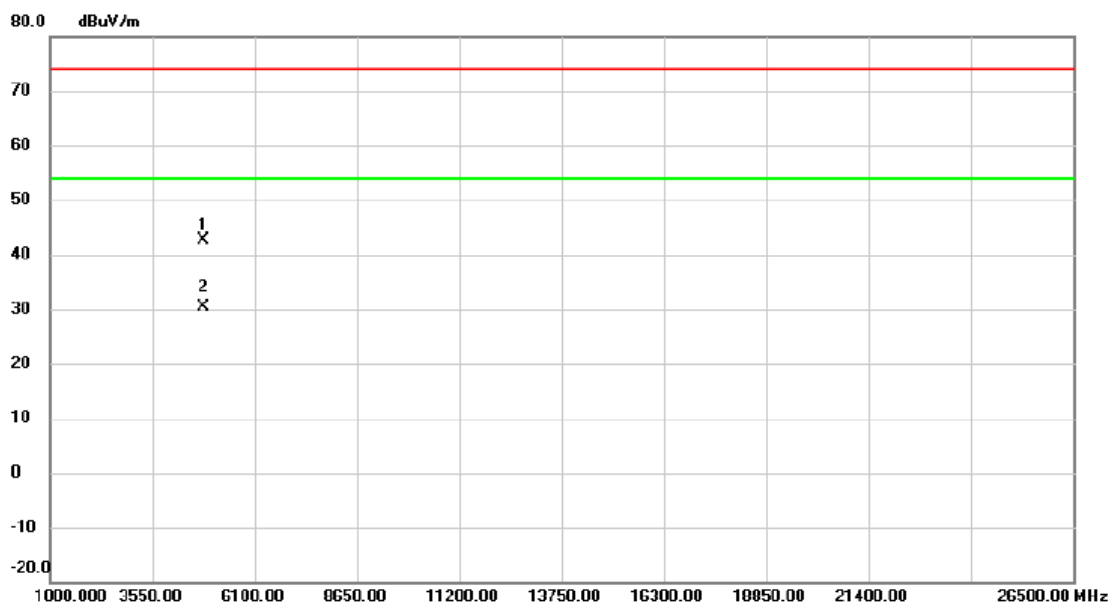
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2390.000	59.22	10.03	69.25	74.00	-4.75	peak	
2		2390.000	42.89	10.03	52.92	54.00	-1.08	AVG	
3	*	2415.150	96.37	10.10	106.47	54.00	52.47	AVG	No Limit
4	X	2415.250	105.27	10.10	115.37	74.00	41.37	peak	No Limit

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

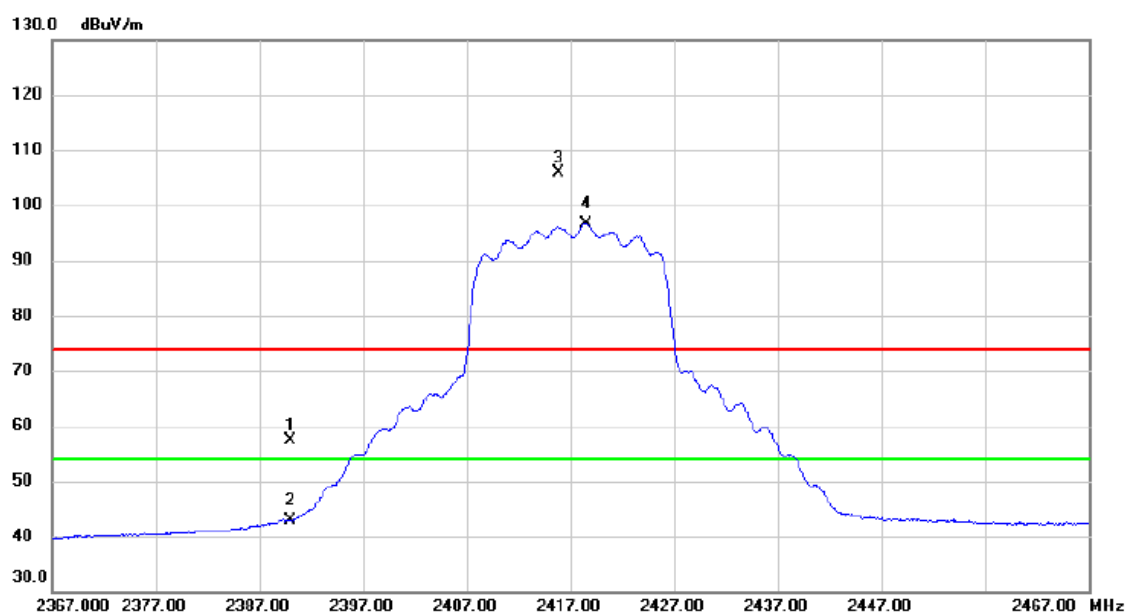
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4832.180	36.26	6.36	42.62	74.00	-31.38	peak	
2	*	4841.955	24.06	6.40	30.46	54.00	-23.54	AVG	

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

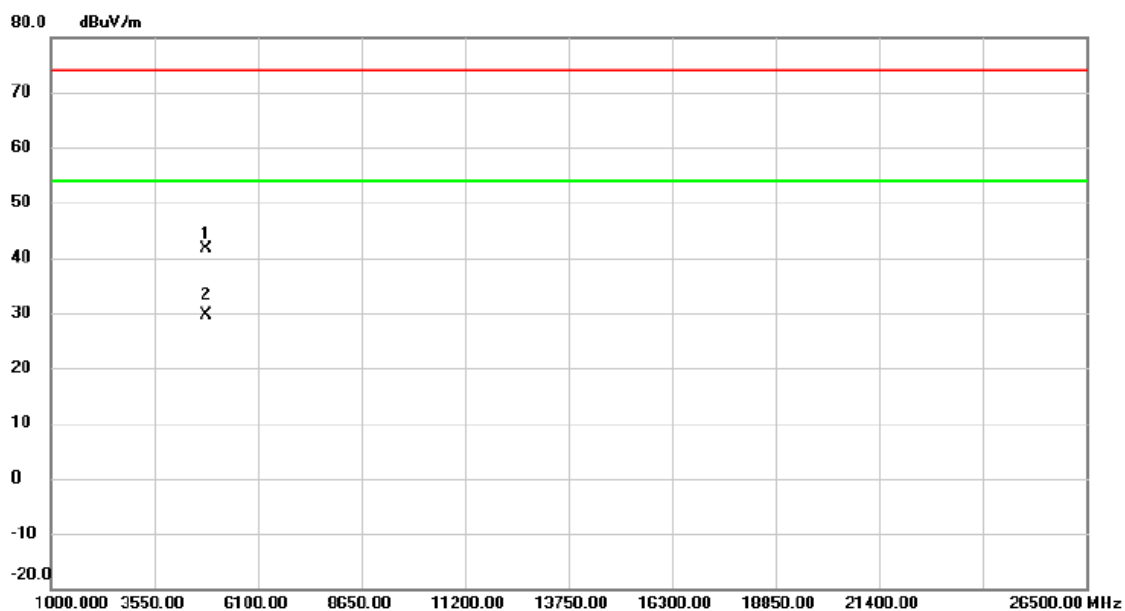
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	47.32	10.03	57.35	74.00	-16.65	peak	
2		2390.000	32.78	10.03	42.81	54.00	-11.19	AVG	
3	X	2415.850	95.77	10.10	105.87	74.00	31.87	peak	No Limit
4	*	2418.550	86.52	10.11	96.63	54.00	42.63	AVG	No Limit

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

Horizontal

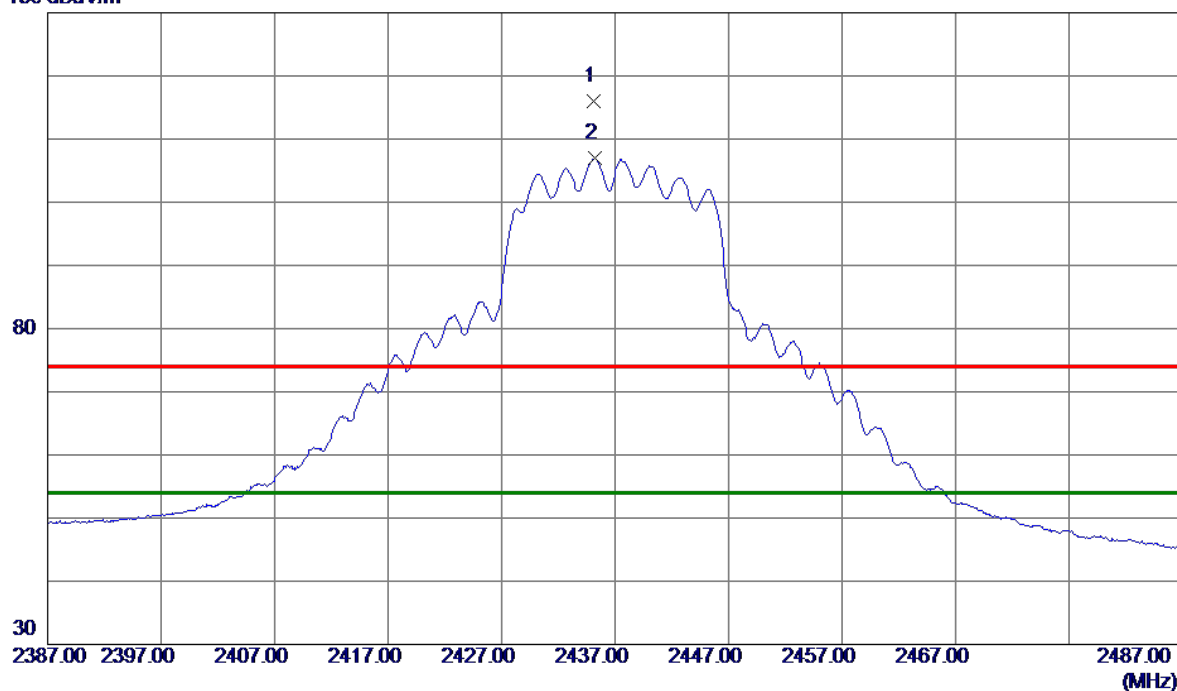


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4838.210	35.30	6.39	41.69	74.00	-32.31	peak	
2	*	4839.695	23.36	6.39	29.75	54.00	-24.25	AVG	

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

Vertical

130 dBuV/m

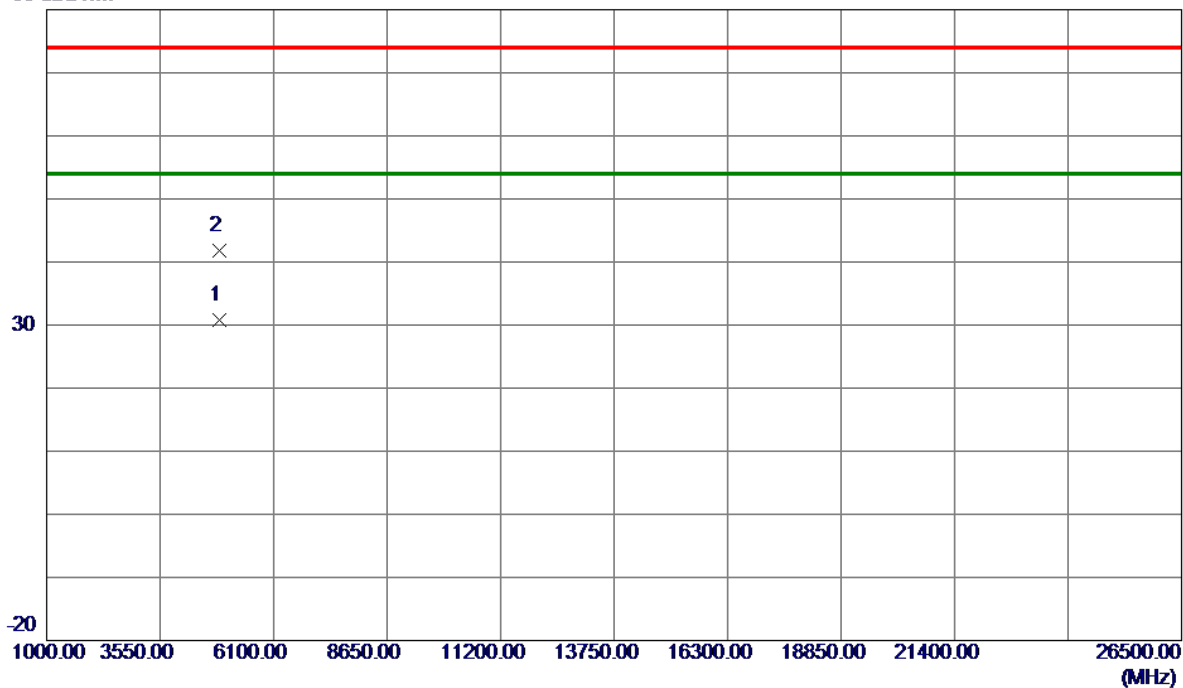


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2435.1500	105.83	10.16	115.99	74.00	41.99	Peak	No Limit
2 *	2435.2500	96.87	10.16	107.03	54.00	53.03	AVG	No Limit

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

Vertical

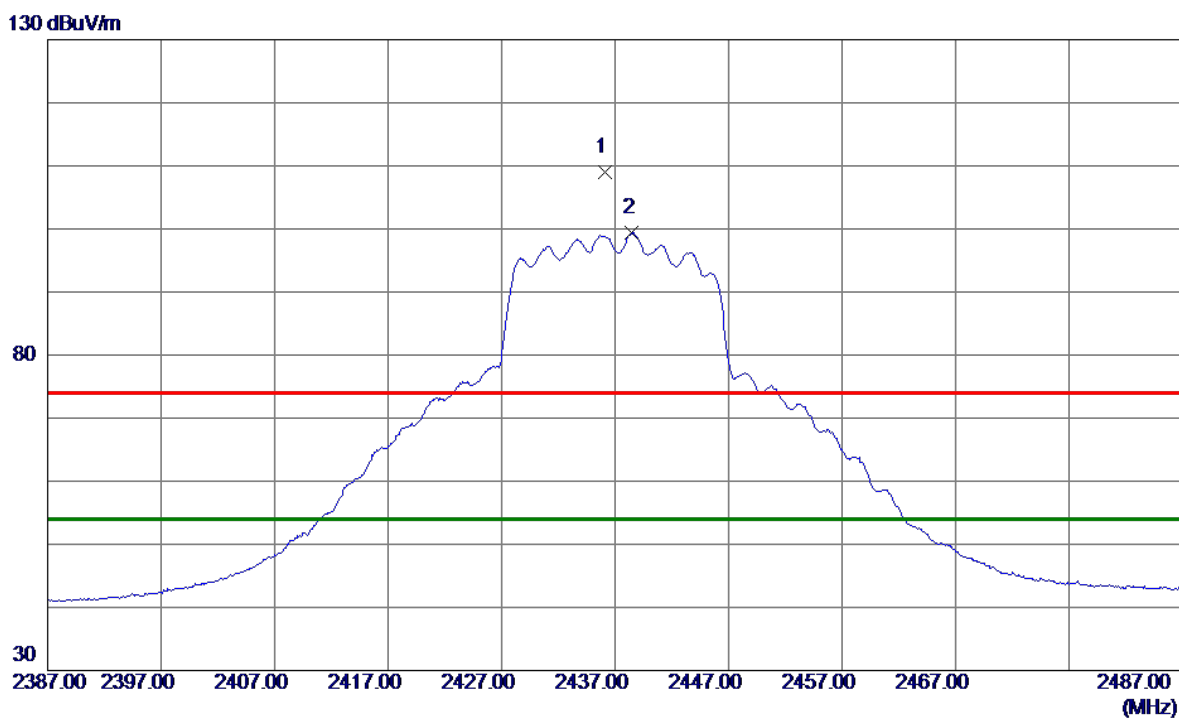
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.3800	24.20	6.52	30.72	54.00	-23.28	AVG	
2	4874.4400	35.30	6.52	41.82	74.00	-32.18	Peak	

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

Horizontal

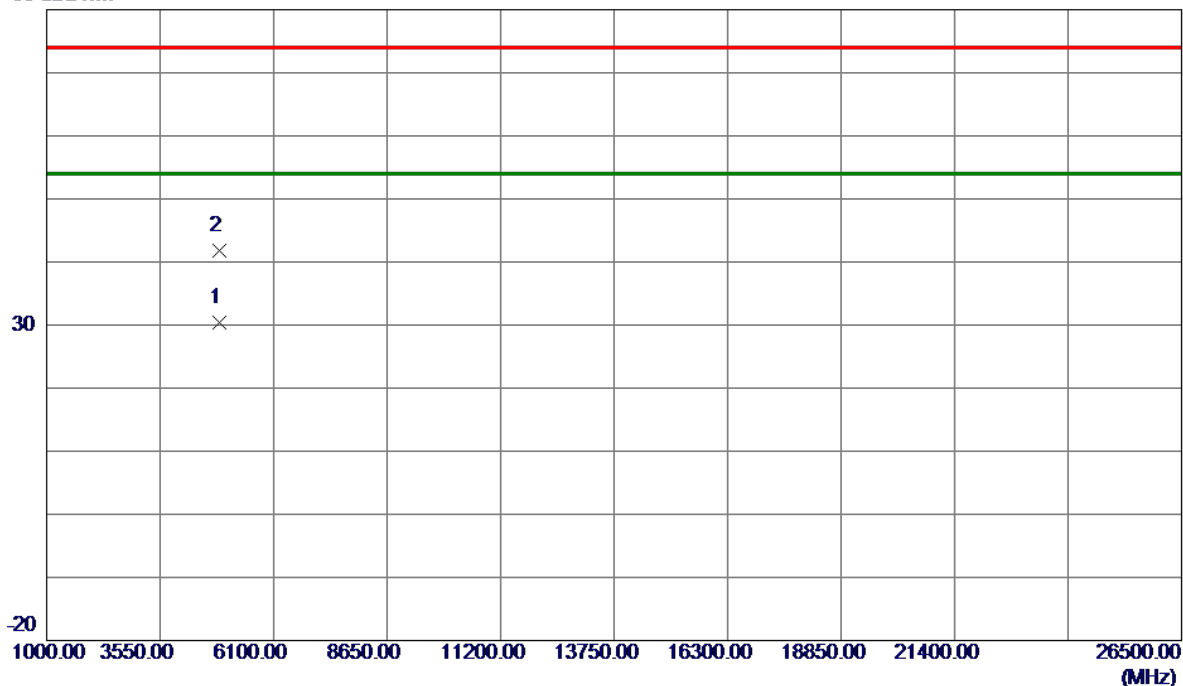


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2436.1000	98.84	10.16	109.00	74.00	35.00	Peak	No Limit
2 *	2438.5000	89.23	10.17	99.40	54.00	45.40	AVG	No Limit

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

Horizontal

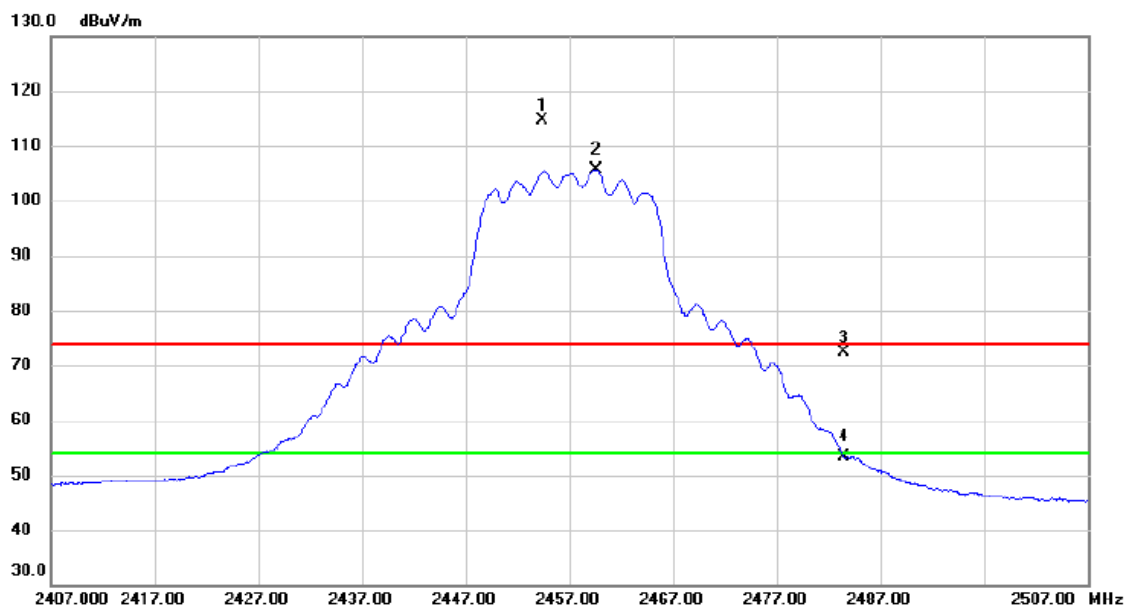
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4875.6750	23.87	6.52	30.39	54.00	-23.61	AVG	
2	4877.5350	35.30	6.53	41.83	74.00	-32.17	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	2454.400	104.54	10.21	114.75	74.00	40.75	peak	No Limit
2	*	2459.600	95.48	10.23	105.71	54.00	51.71	AVG	No Limit
3		2483.500	62.13	10.29	72.42	74.00	-1.58	peak	
4		2483.500	43.07	10.29	53.36	54.00	-0.64	AVG	

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

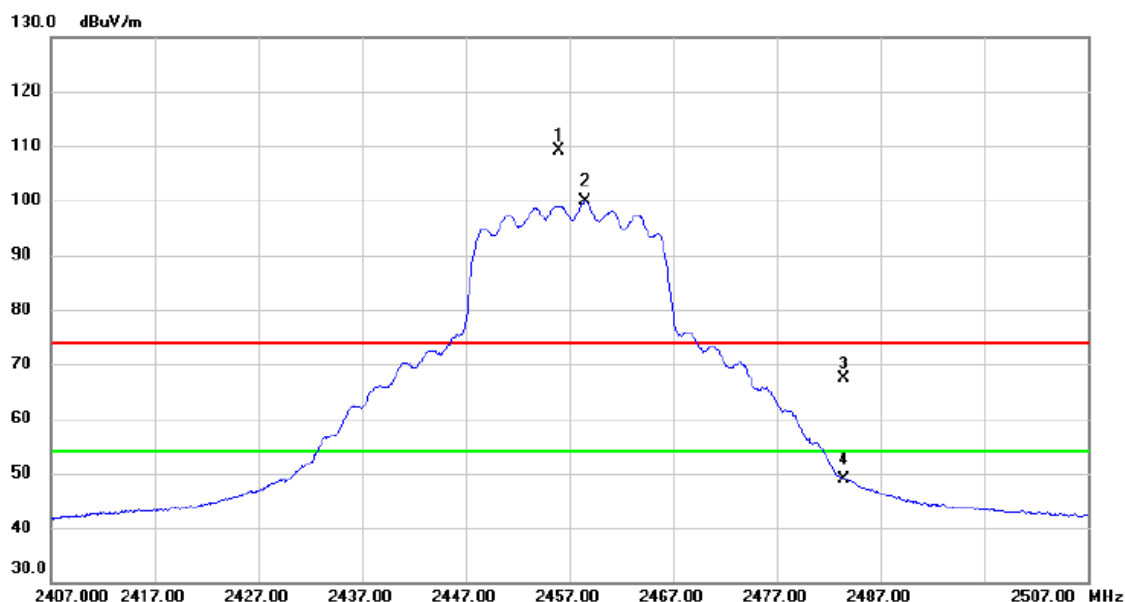
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4909.470	22.82	6.65	29.47	54.00	-24.53	AVG	
2		4914.195	34.64	6.66	41.30	74.00	-32.70	peak	

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

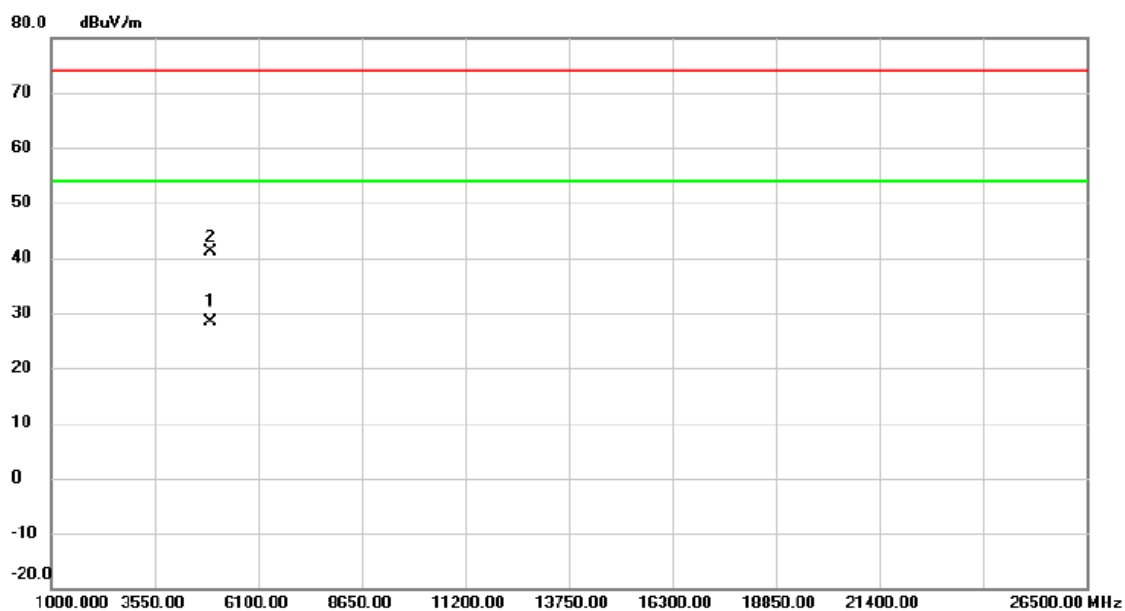
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2456.050	98.92	10.22	109.14	74.00	35.14	peak	No Limit
2	*	2458.550	89.54	10.23	99.77	54.00	45.77	AVG	No Limit
3		2483.500	57.19	10.29	67.48	74.00	-6.52	peak	
4		2483.500	38.71	10.29	49.00	54.00	-5.00	AVG	

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

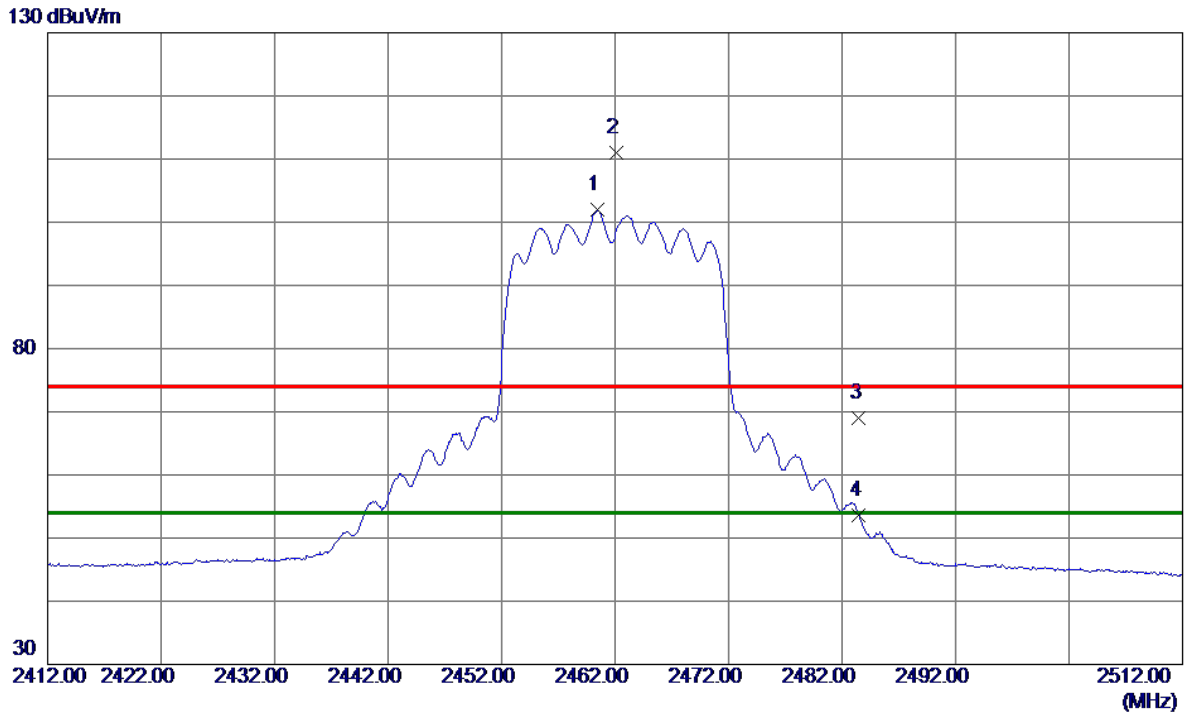
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4911.810	21.78	6.65	28.43	54.00	-25.57	AVG	
2		4910.210	34.60	6.65	41.25	74.00	-32.75	peak	

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

Vertical

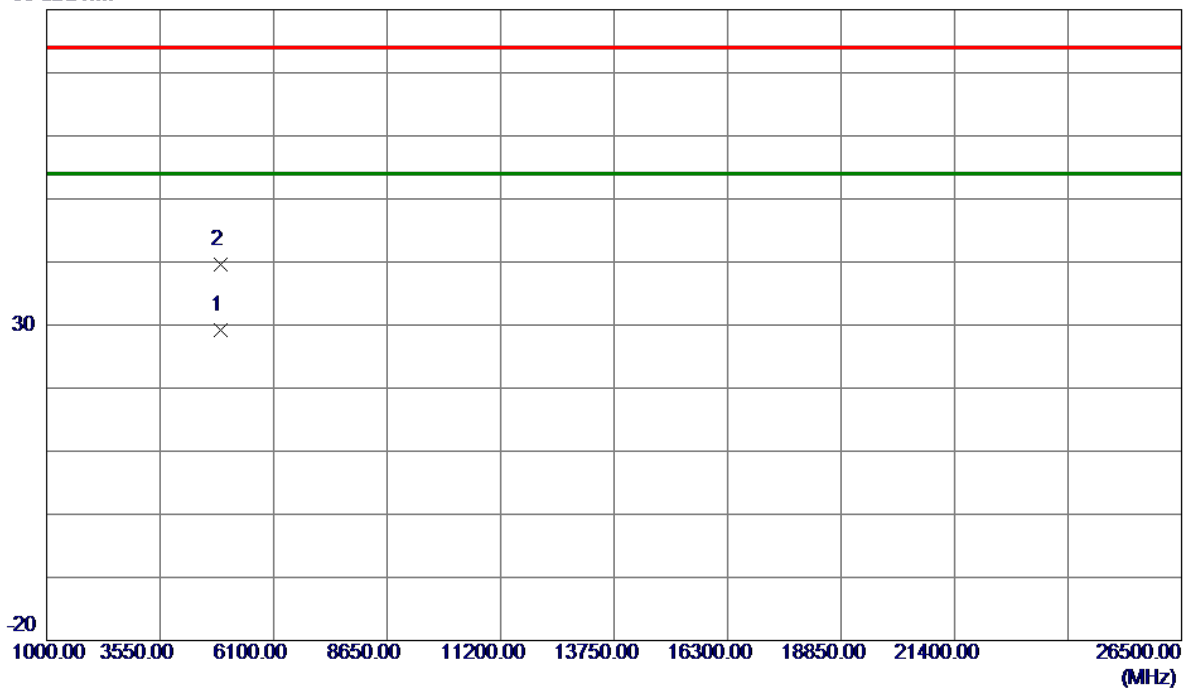


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2460.4500	91.76	10.23	101.99	54.00	47.99	AVG	No Limit
2	2462.1500	100.75	10.23	110.98	74.00	36.98	Peak	No Limit
3	2483.5000	58.63	10.29	68.92	74.00	-5.08	Peak	
4	2483.5000	43.29	10.29	53.58	54.00	-0.42	AVG	

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

Vertical

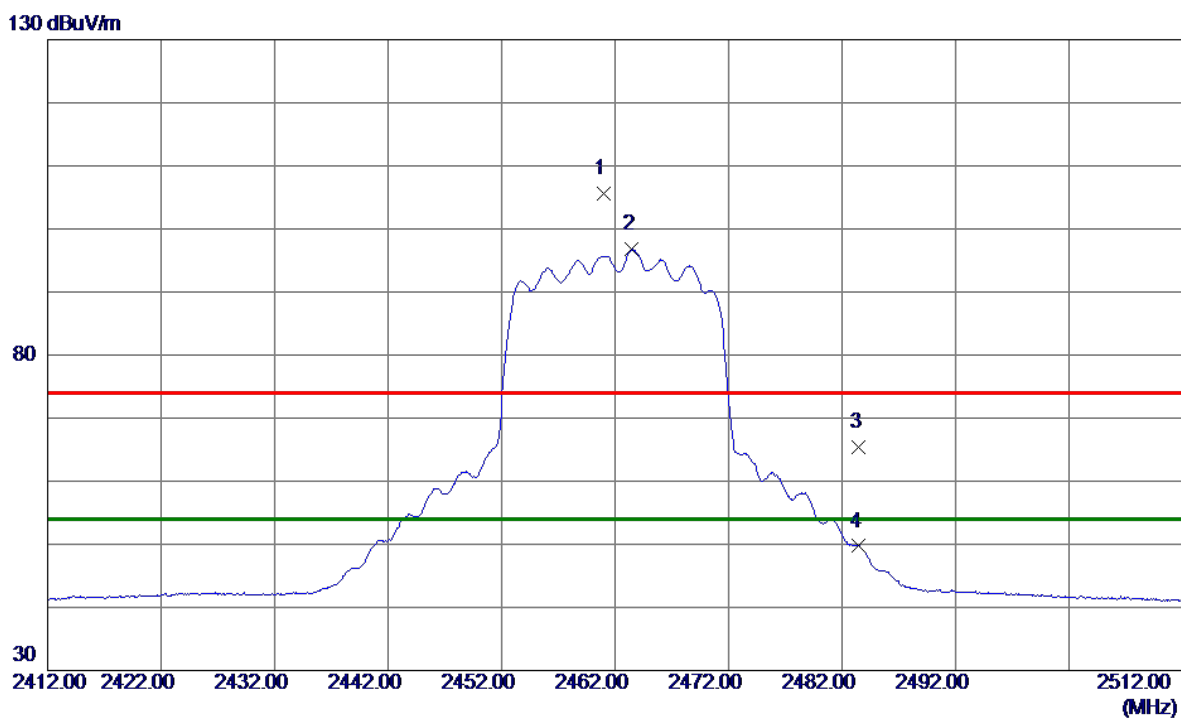
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4919.8500	22.60	6.68	29.28	54.00	-24.72	AVG	
2	4920.3950	32.86	6.69	39.55	74.00	-34.45	Peak	

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

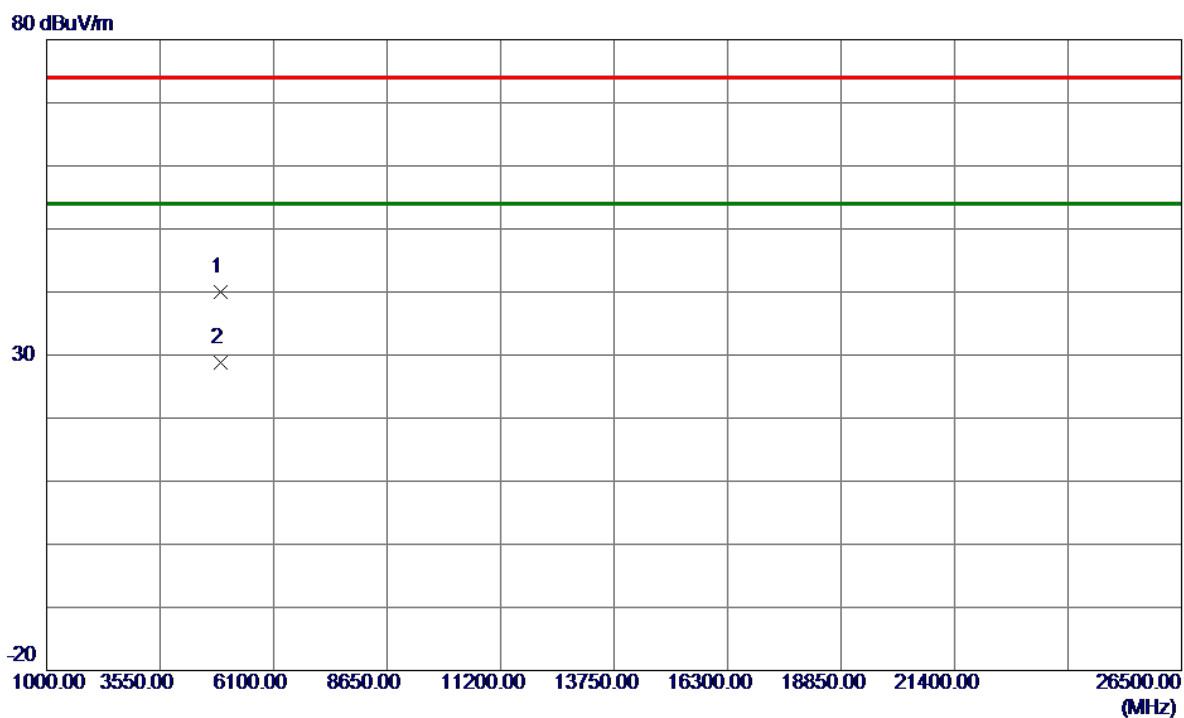
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2460.9500	95.37	10.23	105.60	74.00	31.60	Peak	No Limit
2 *	2463.5000	86.47	10.24	96.71	54.00	42.71	AVG	No Limit
3	2483.5000	55.18	10.29	65.47	74.00	-8.53	Peak	
4	2483.5000	39.41	10.29	49.70	54.00	-4.30	AVG	

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

Horizontal

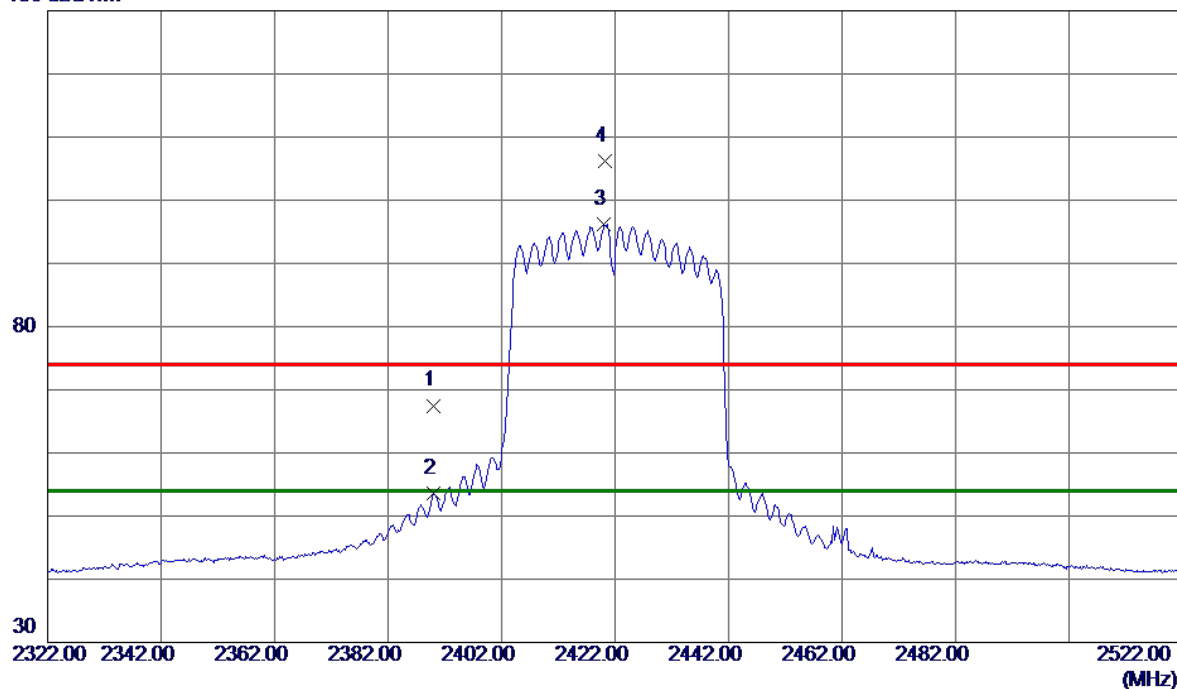


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4920.5350	33.33	6.69	40.02	74.00	-33.98	Peak	
2 *	4920.8700	22.10	6.69	28.79	54.00	-25.21	AVG	

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

Vertical

130 dBuV/m

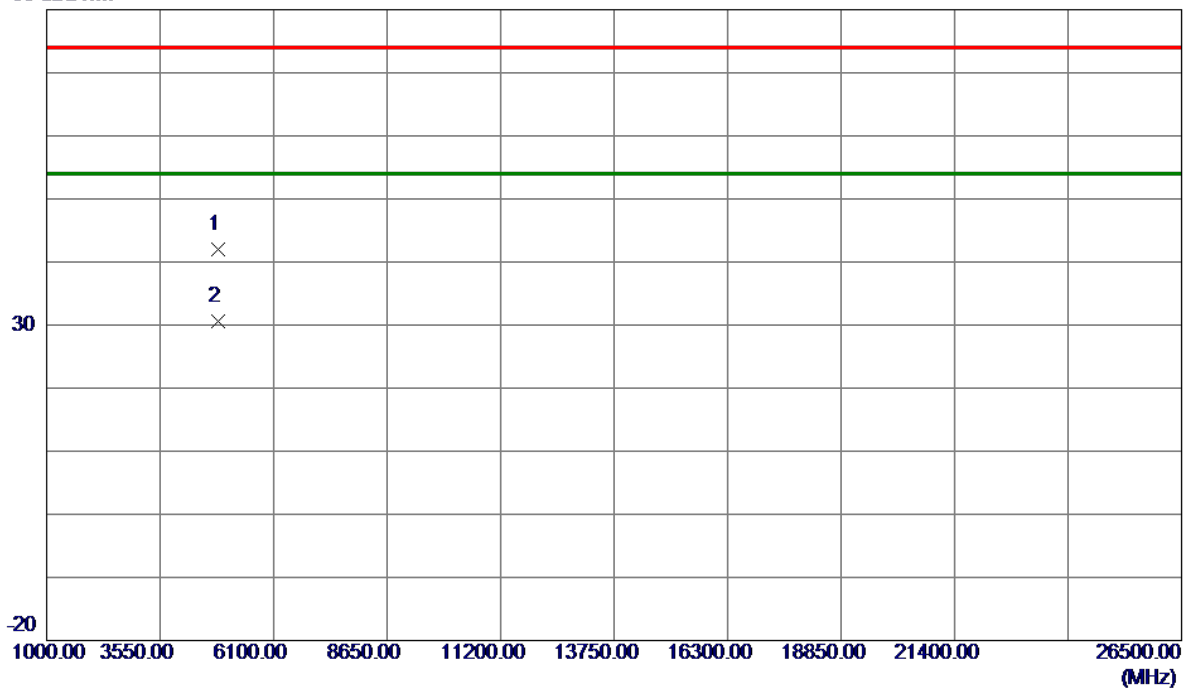


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	57.47	10.03	67.50	74.00	-6.50	Peak	
2	2390.0000	43.66	10.03	53.69	54.00	-0.31	AVG	
3 *	2420.0000	86.12	10.11	96.23	54.00	42.23	AVG	No Limit
4	2420.2000	96.11	10.11	106.22	74.00	32.22	Peak	No Limit

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

Vertical

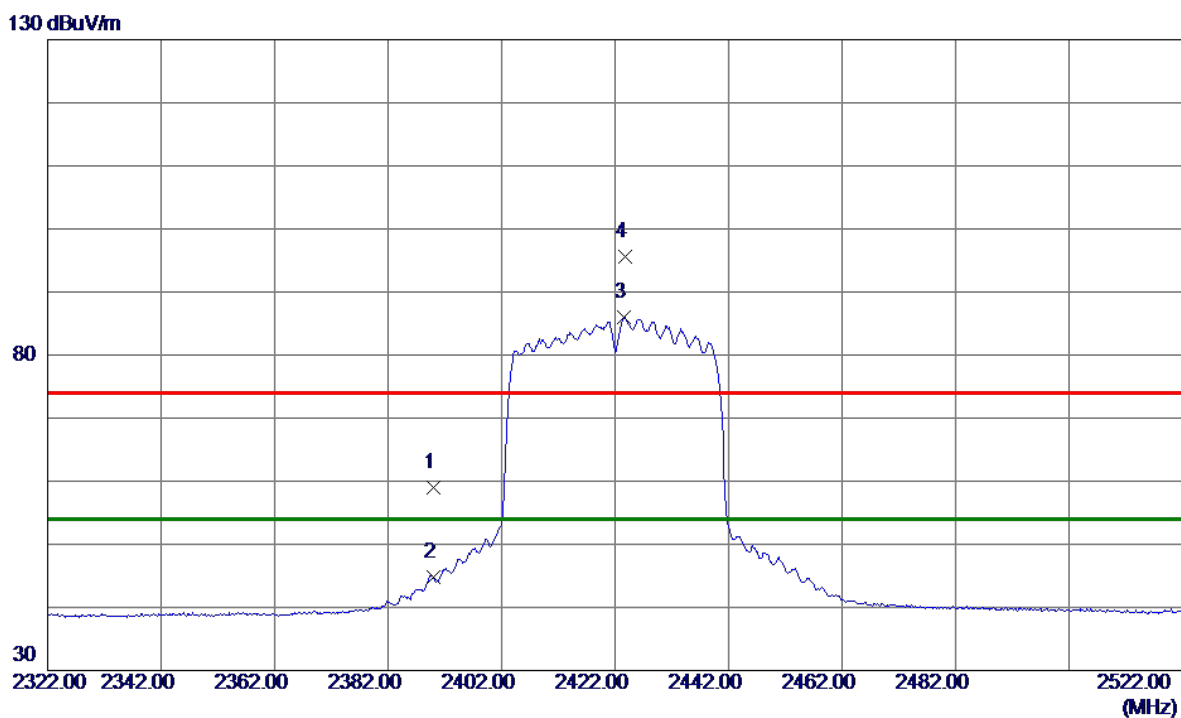
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4840.9500	35.70	6.39	42.09	74.00	-31.91	Peak	
2 *	4853.6800	24.14	6.44	30.58	54.00	-23.42	AVG	

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

Horizontal

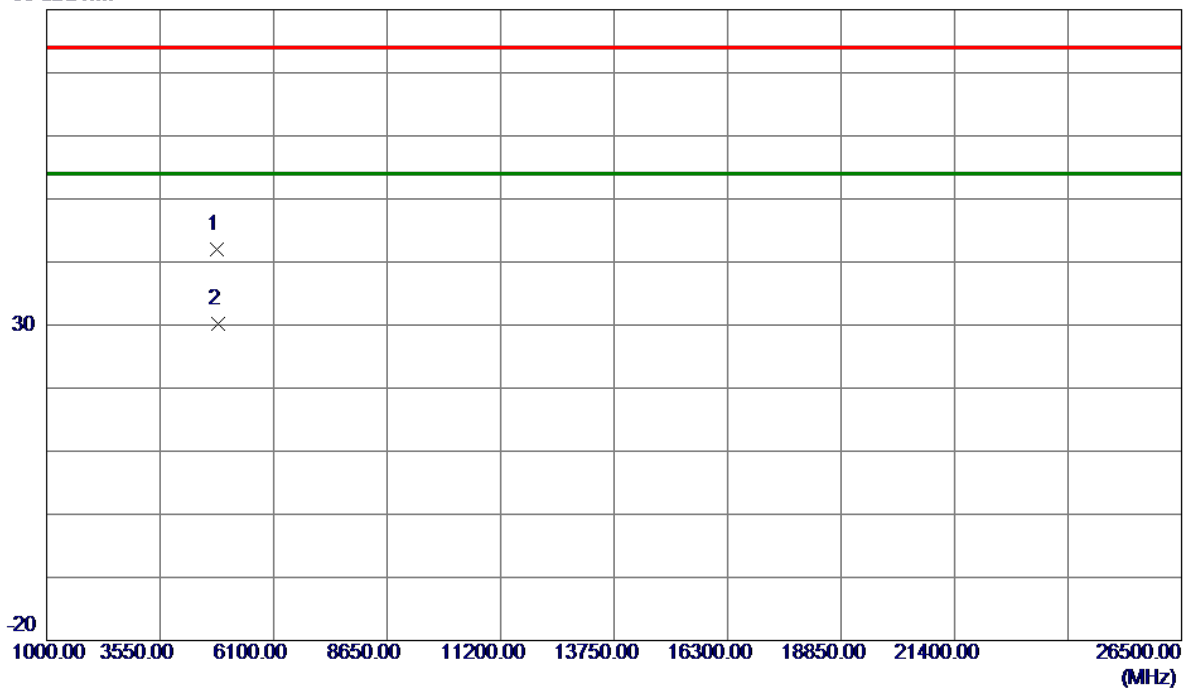


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	49.05	10.03	59.08	74.00	-14.92	Peak	
2	2390.0000	34.68	10.03	44.71	54.00	-9.29	AVG	
3 *	2423.5000	75.95	10.12	86.07	54.00	32.07	AVG	No Limit
4	2423.8000	85.49	10.13	95.62	74.00	21.62	Peak	No Limit

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

Horizontal

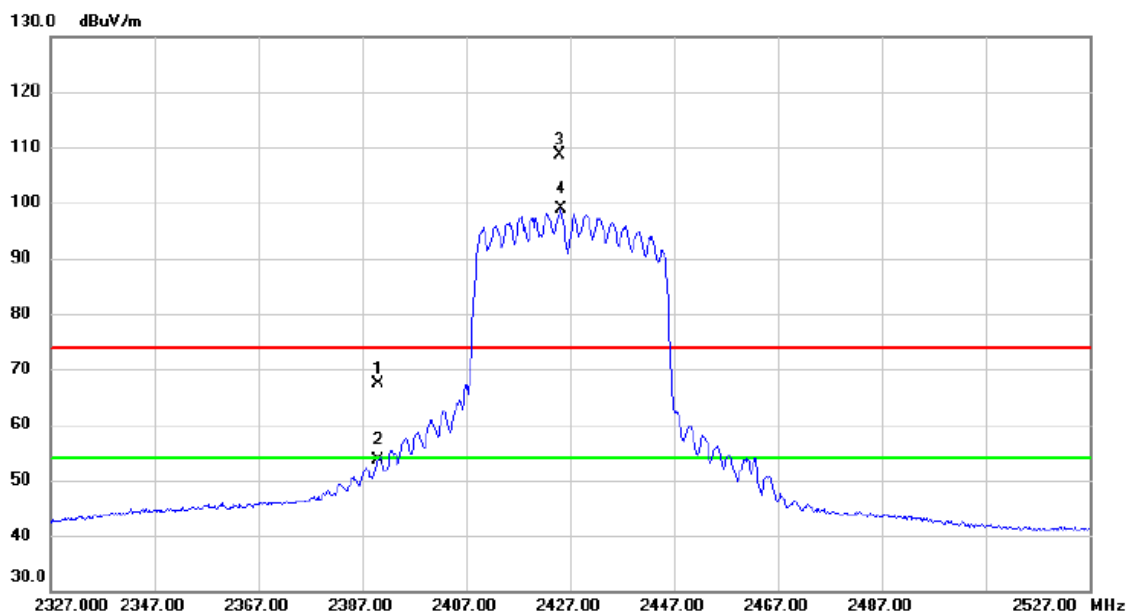
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4839.0299	35.59	6.38	41.97	74.00	-32.03	Peak	
2 *	4840.1900	23.73	6.39	30.12	54.00	-23.88	AVG	

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

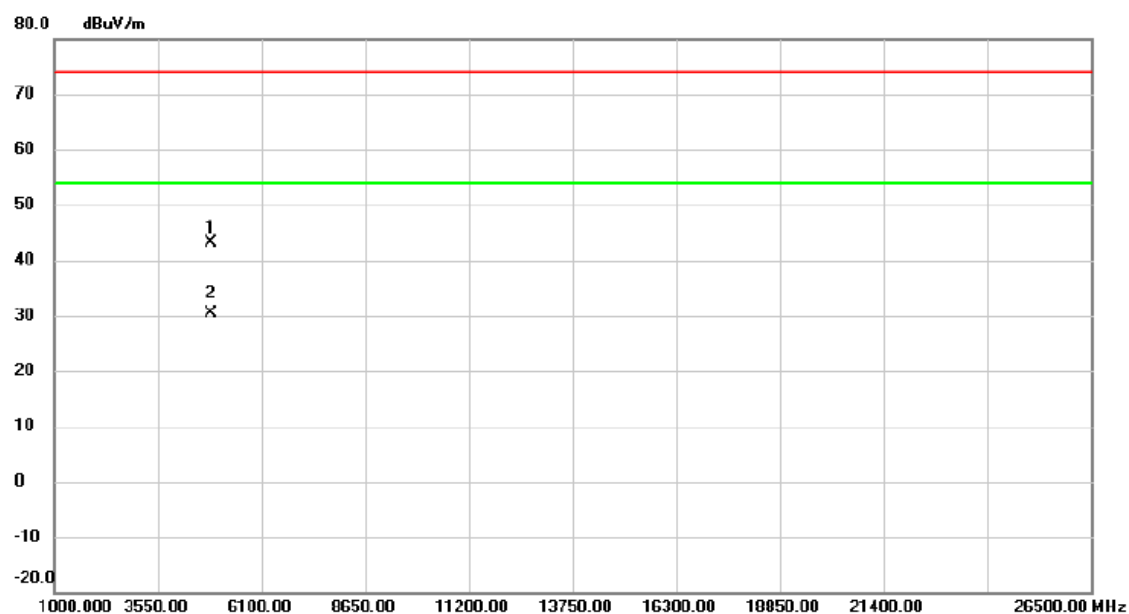
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	57.27	10.03	67.30	74.00	-6.70	peak	
2		2390.000	43.53	10.03	53.56	54.00	-0.44	AVG	
3	X	2425.100	98.57	10.13	108.70	74.00	34.70	peak	No Limit
4	*	2425.300	88.67	10.13	98.80	54.00	44.80	AVG	No Limit

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

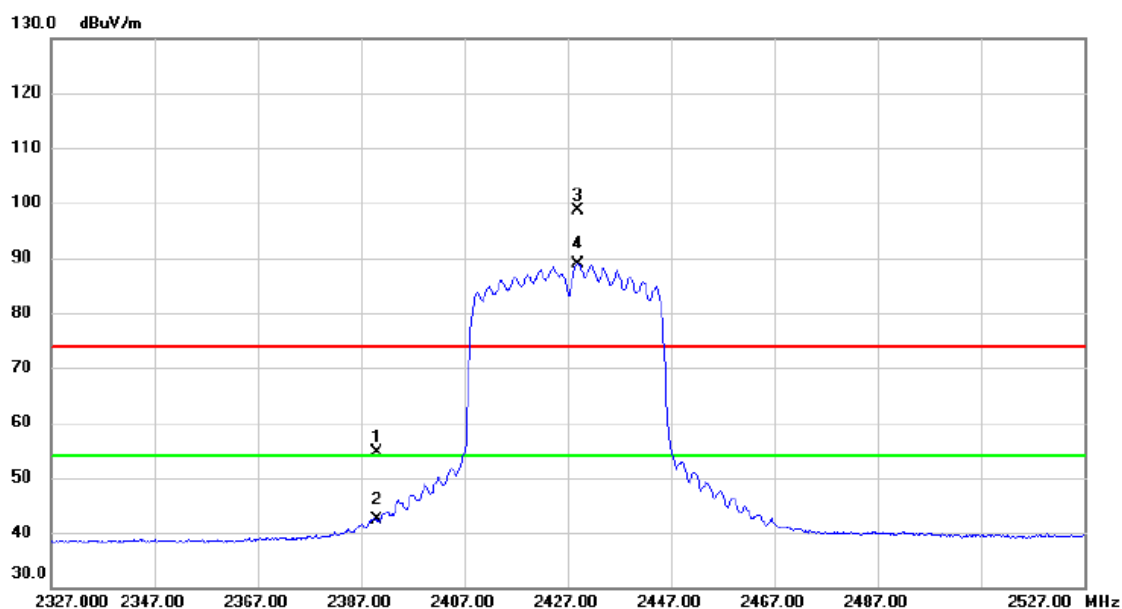
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4846.810	36.70	6.42	43.12	74.00	-30.88	peak	
2	*	4854.760	24.05	6.43	30.48	54.00	-23.52	AVG	

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

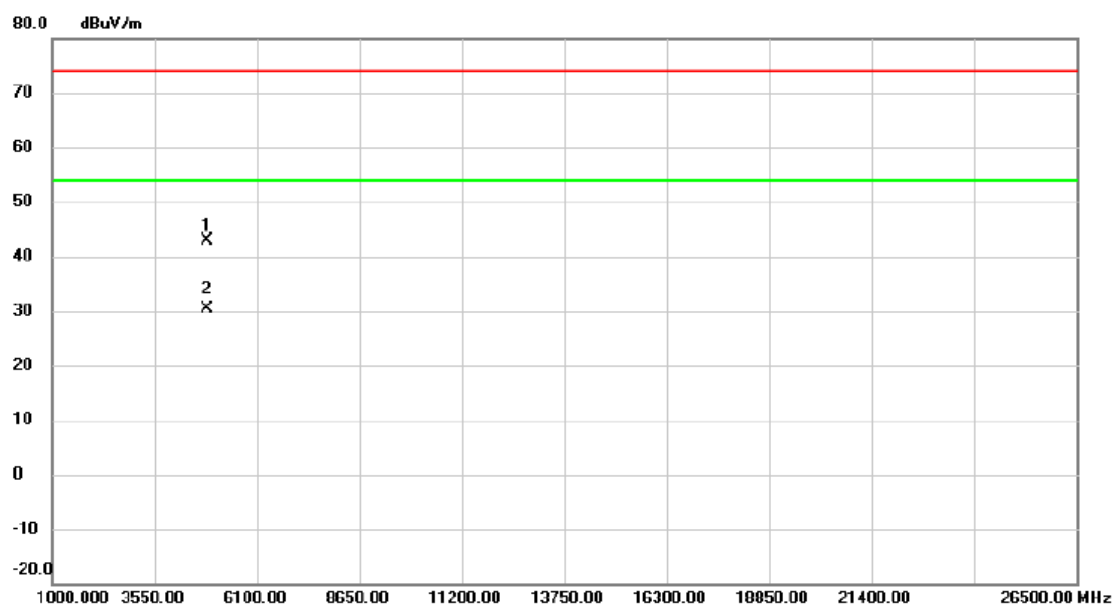
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		2390.000	44.49	10.03	54.52	74.00	-19.48	peak	
2		2390.000	32.36	10.03	42.39	54.00	-11.61	AVG	
3	X	2429.000	88.61	10.14	98.75	74.00	24.75	peak	No Limit
4	*	2429.100	78.68	10.14	88.82	54.00	34.82	AVG	No Limit

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

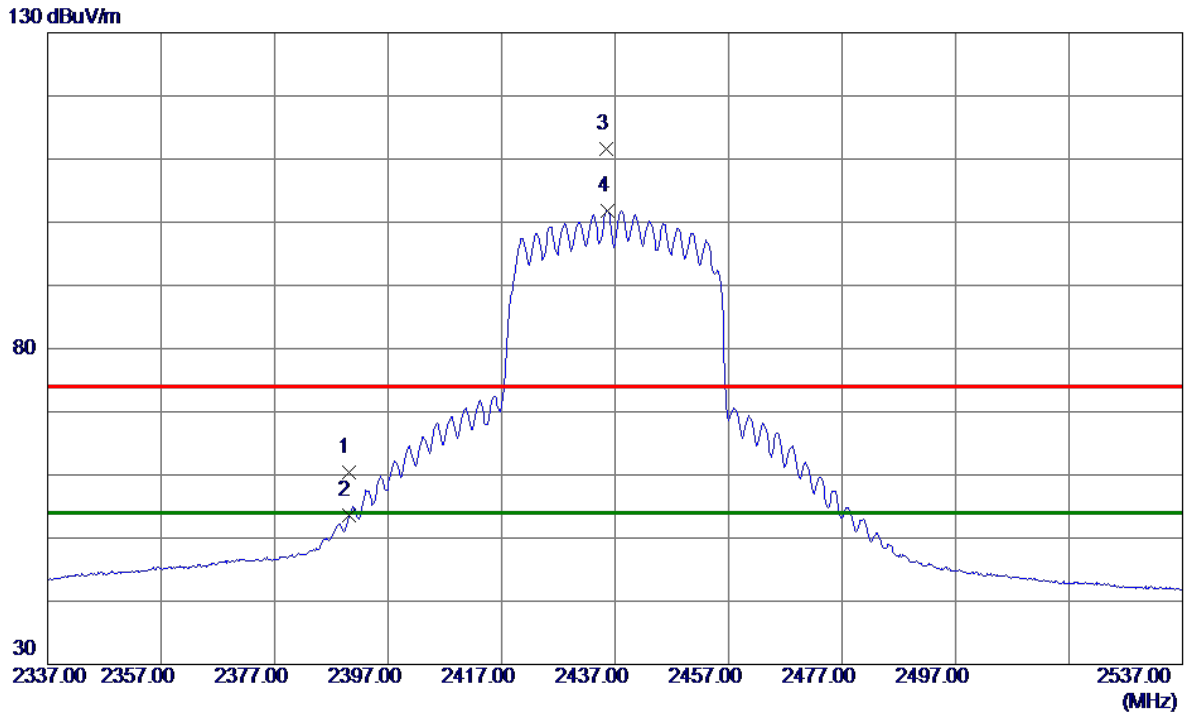
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		4854.840	36.47	6.43	42.90	74.00	-31.10	peak	
2	*	4855.950	23.93	6.45	30.38	54.00	-23.62	AVG	

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

Vertical

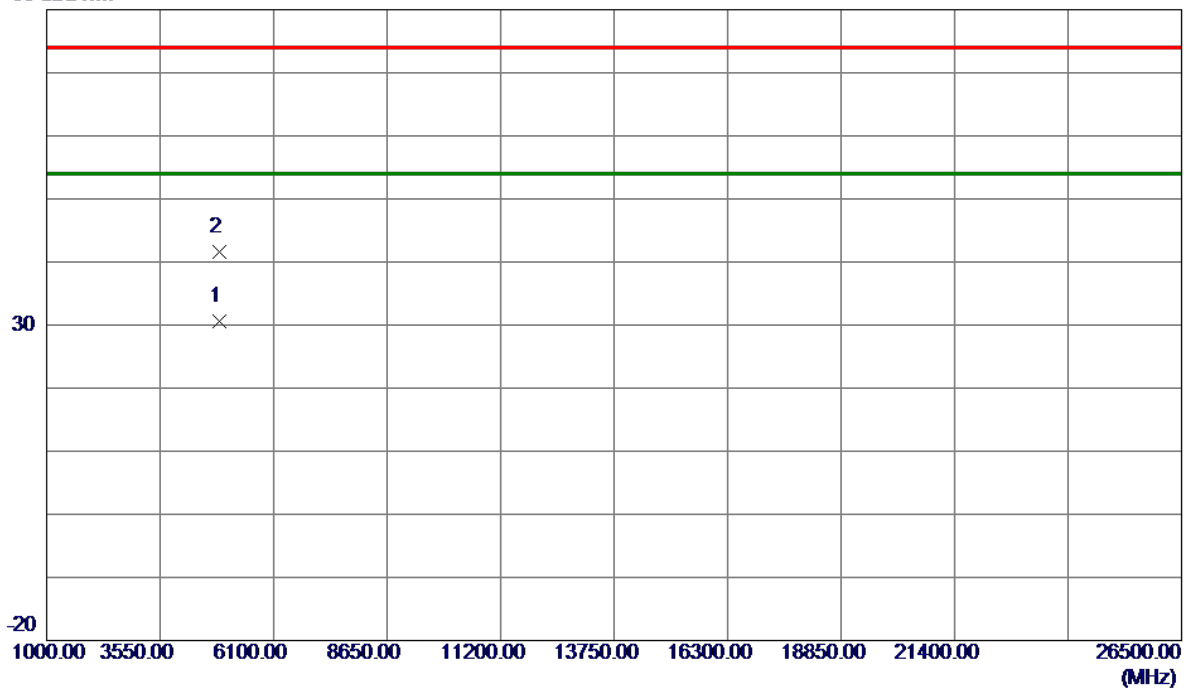


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2390.0000	50.36	10.03	60.39	74.00	-13.61	Peak	
2	2390.0000	43.63	10.03	53.66	54.00	-0.34	AVG	
3	2435.5000	101.45	10.16	111.61	74.00	37.61	Peak	No Limit
4 *	2435.6000	91.63	10.16	101.79	54.00	47.79	AVG	No Limit

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

Vertical

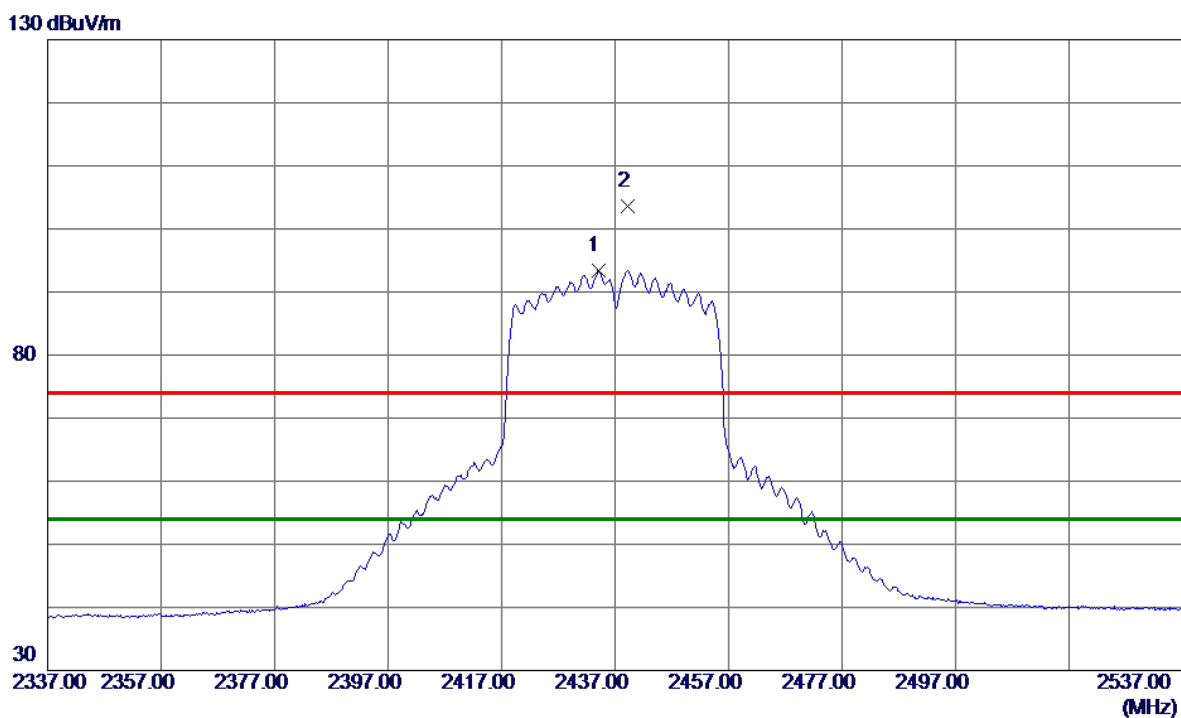
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4874.8900	24.00	6.52	30.52	54.00	-23.48	AVG	
2	4877.4400	35.11	6.53	41.64	74.00	-32.36	Peak	

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

Horizontal

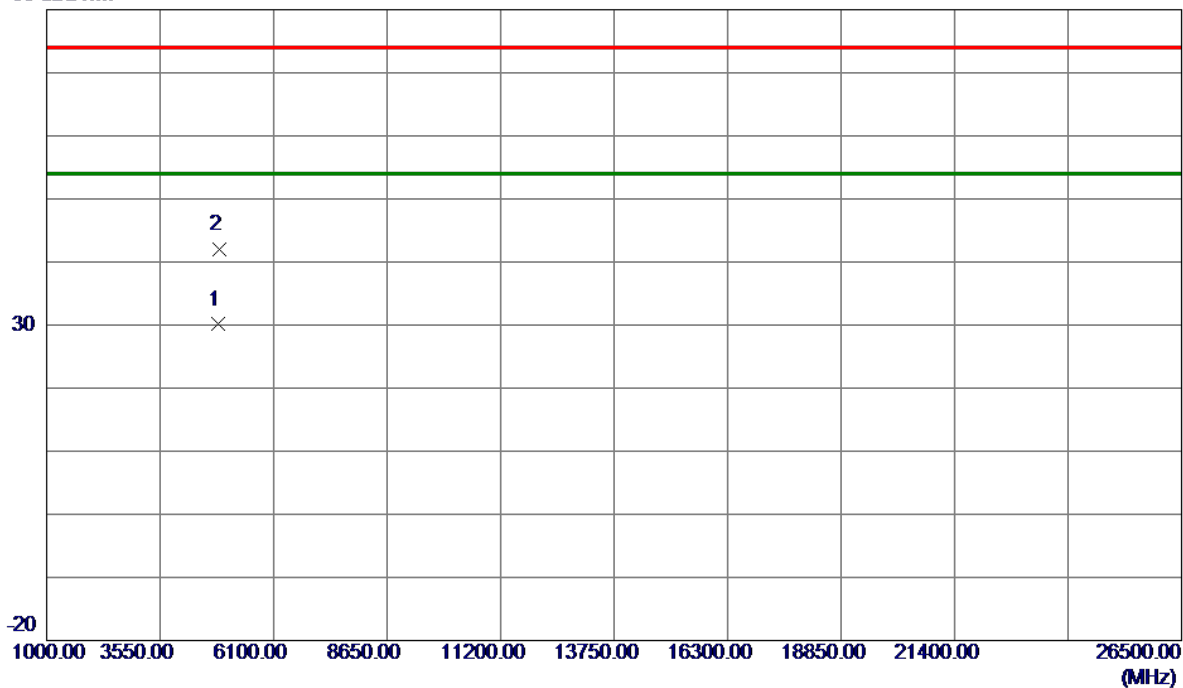


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2434.0000	83.19	10.15	93.34	54.00	39.34	AVG	No Limit
2	2439.2000	93.42	10.17	103.59	74.00	29.59	Peak	No Limit

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

Horizontal

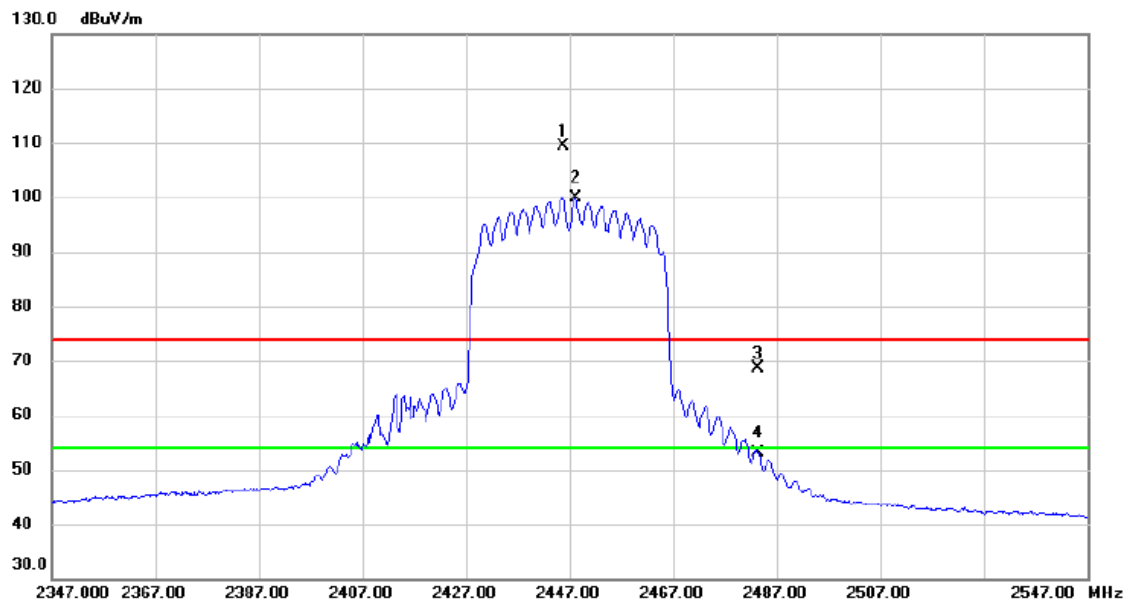
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4866.2100	23.62	6.48	30.10	54.00	-23.90	AVG	
2	4878.8000	35.39	6.53	41.92	74.00	-32.08	Peak	

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

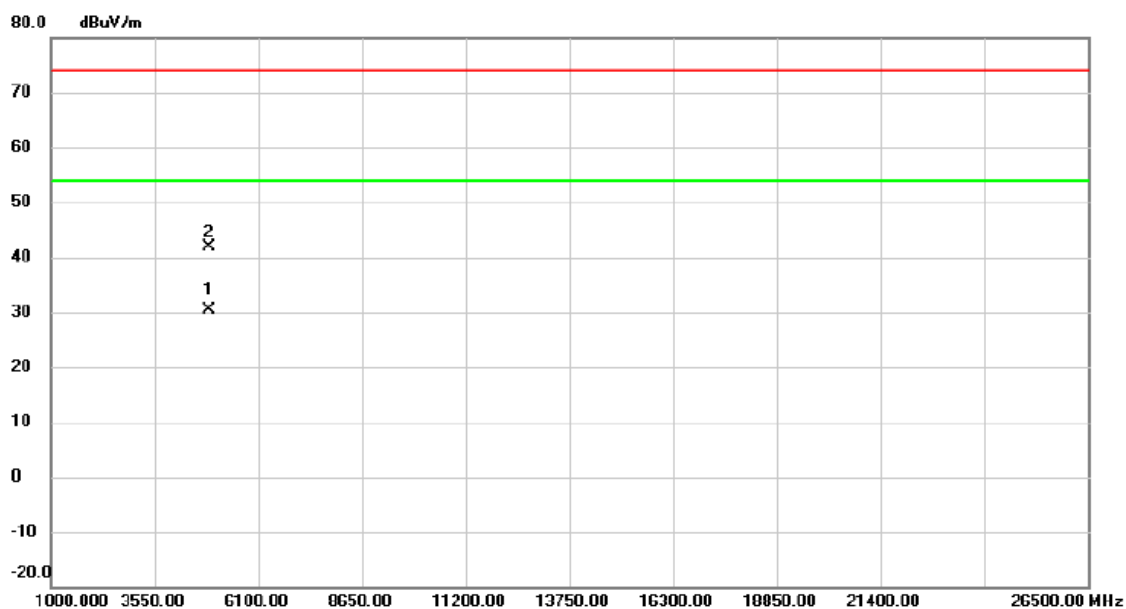
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2445.700	99.21	10.18	109.39	74.00	35.39	peak	No Limit
2	*	2448.100	89.65	10.20	99.85	54.00	45.85	AVG	No Limit
3		2483.500	58.31	10.29	68.60	74.00	-5.40	peak	
4		2483.500	42.75	10.29	53.04	54.00	-0.96	AVG	

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

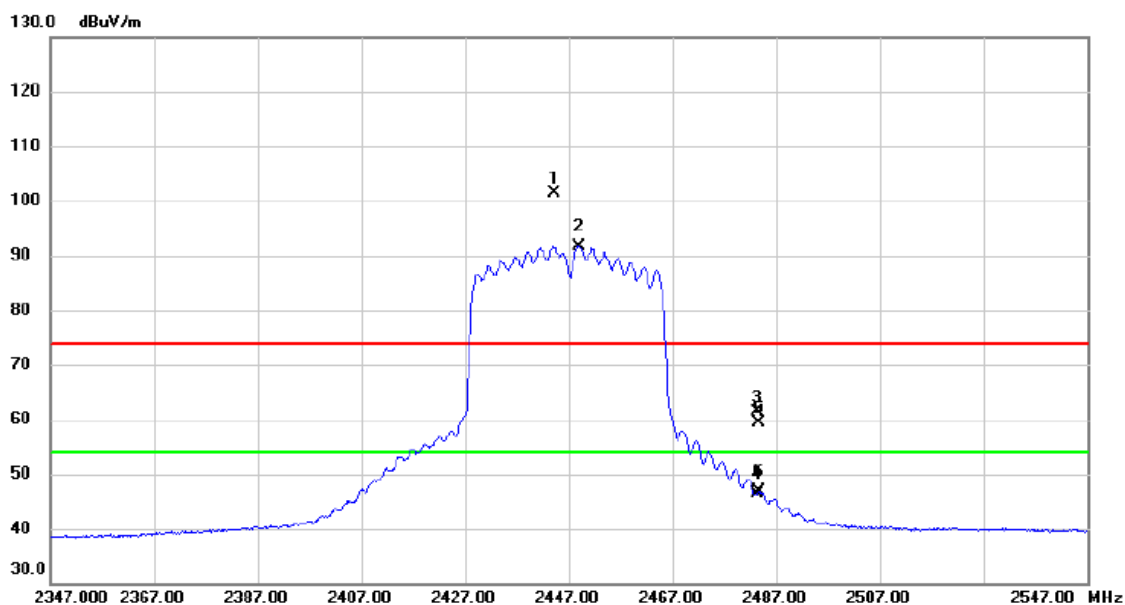
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4884.500	23.92	6.55	30.47	54.00	-23.53	AVG	
2		4903.630	35.33	6.62	41.95	74.00	-32.05	peak	

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

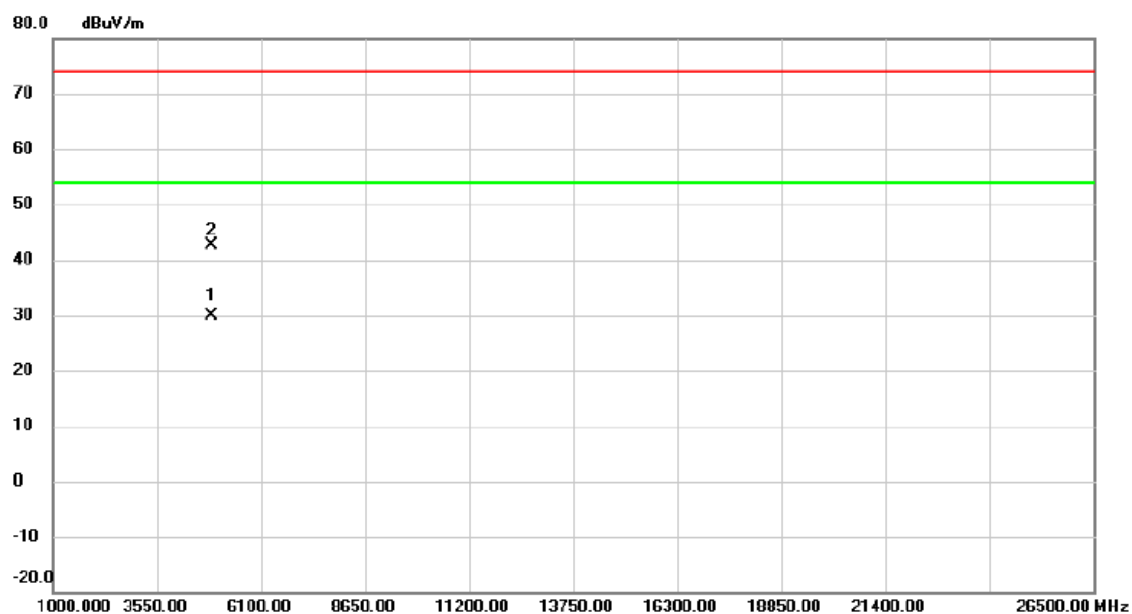
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	2444.300	91.32	10.18	101.50	74.00	27.50	peak	No Limit
2	*	2448.900	81.47	10.20	91.67	54.00	37.67	AVG	No Limit
3		2483.500	51.05	10.29	61.34	74.00	-12.66	peak	
4		2483.500	35.98	10.29	46.27	54.00	-7.73	AVG	
5		2483.700	48.97	10.29	59.26	74.00	-14.74	peak	
6		2483.700	36.52	10.29	46.81	54.00	-7.19	AVG	

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

Horizontal

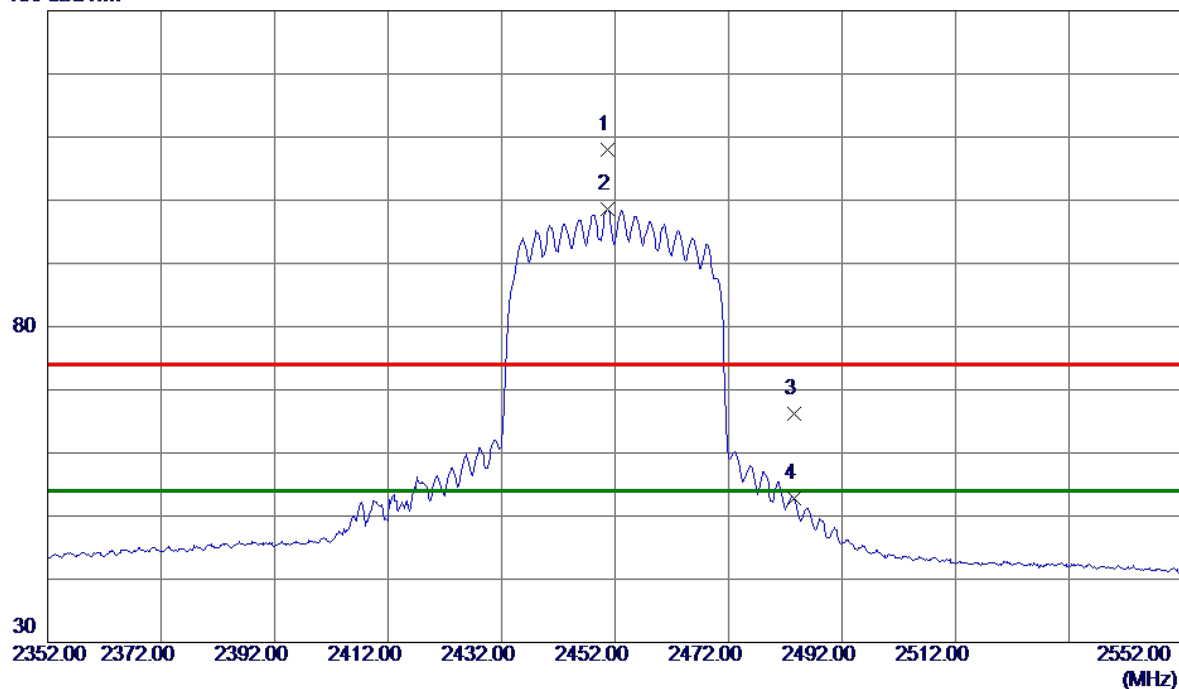


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	*	4891.000	23.34	6.57	29.91	54.00	-24.09	AVG	
2		4901.690	36.09	6.61	42.70	74.00	-31.30	peak	

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

Vertical

130 dBuV/m

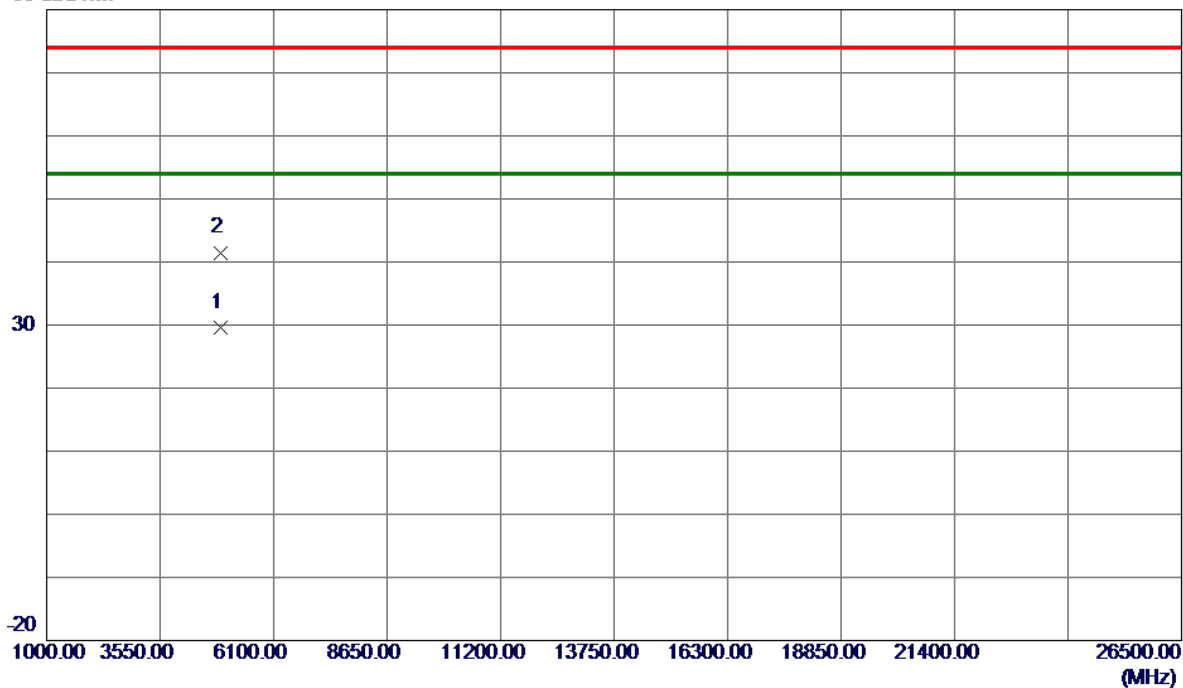


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	2450.7000	97.75	10.20	107.95	74.00	33.95	Peak	No Limit
2 *	2450.7000	88.48	10.20	98.68	54.00	44.68	AVG	No Limit
3	2483.5000	55.97	10.29	66.26	74.00	-7.74	Peak	
4	2483.5000	42.55	10.29	52.84	54.00	-1.16	AVG	

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

Vertical

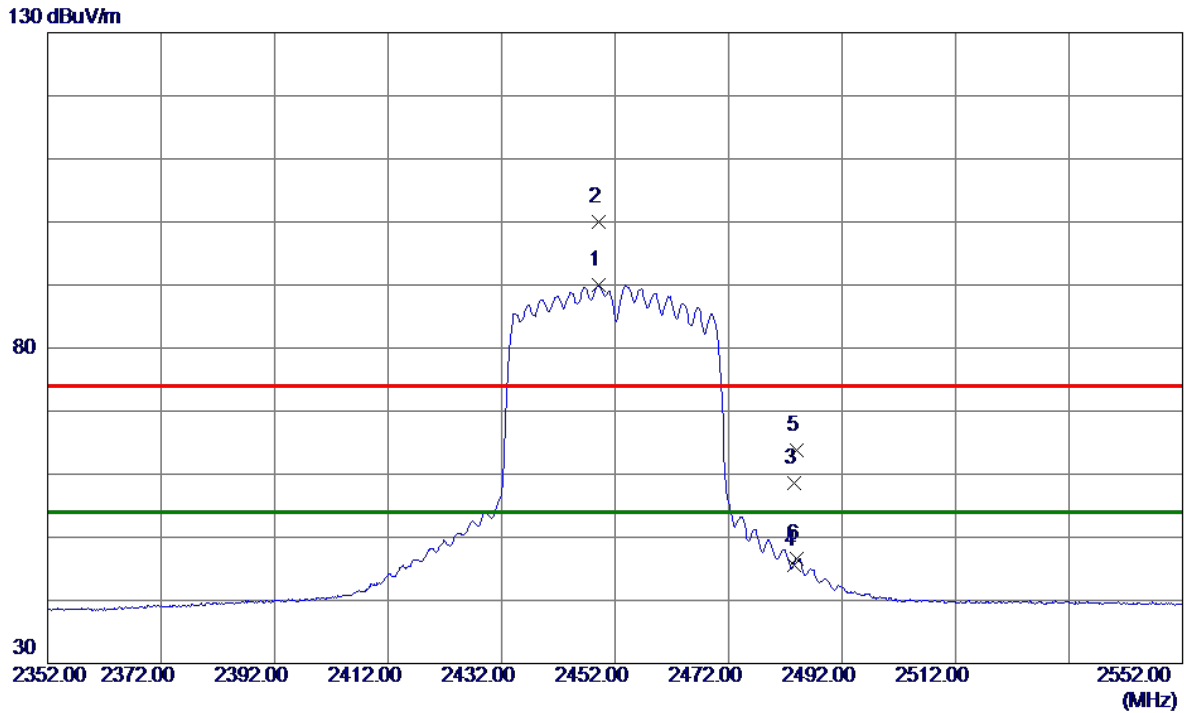
80 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	4903.7300	23.06	6.62	29.68	54.00	-24.32	AVG	
2	4908.0500	34.86	6.64	41.50	74.00	-32.50	Peak	

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

Horizontal

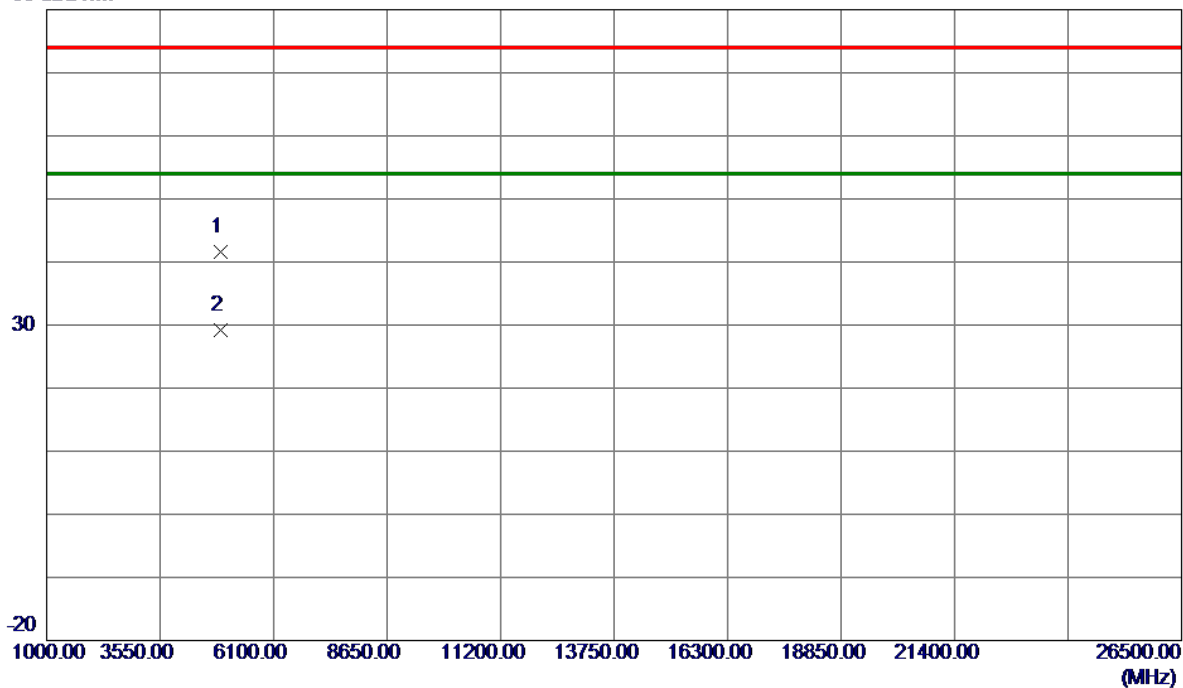


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	2449.1000	79.89	10.20	90.09	54.00	36.09	AVG	No Limit
2	2449.2000	89.79	10.20	99.99	74.00	25.99	Peak	No Limit
3	2483.5000	48.34	10.29	58.63	74.00	-15.37	Peak	
4	2483.5000	35.35	10.29	45.64	54.00	-8.36	AVG	
5	2484.1000	53.53	10.30	63.83	74.00	-10.17	Peak	
6	2484.1000	36.39	10.30	46.69	54.00	-7.31	AVG	

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

Horizontal

80 dBuV/m



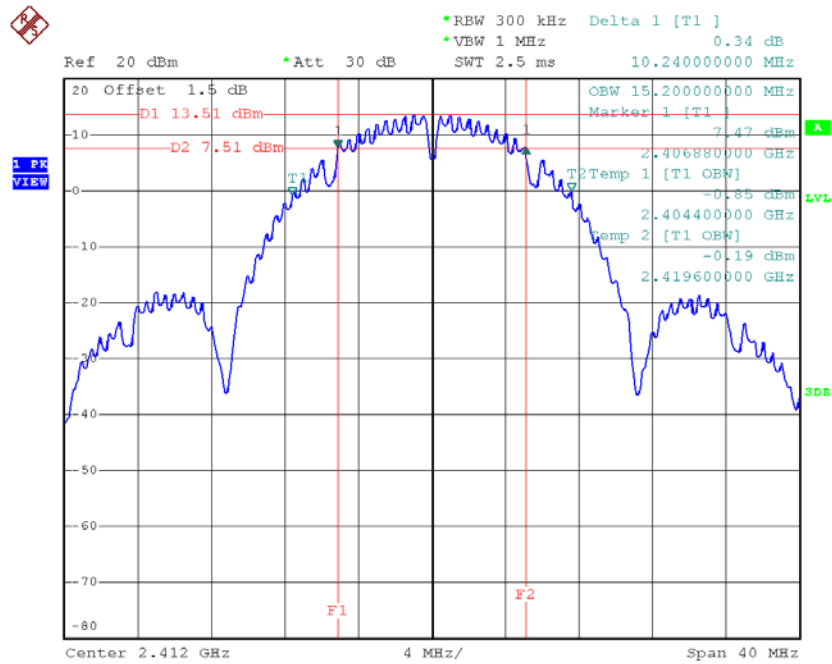
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	4903.6200	34.95	6.62	41.57	74.00	-32.43	Peak	
2 *	4905.3650	22.54	6.63	29.17	54.00	-24.83	AVG	

APPENDIX E - BANDWIDTH

Test Mode : TX B Mode_CH01/06/11

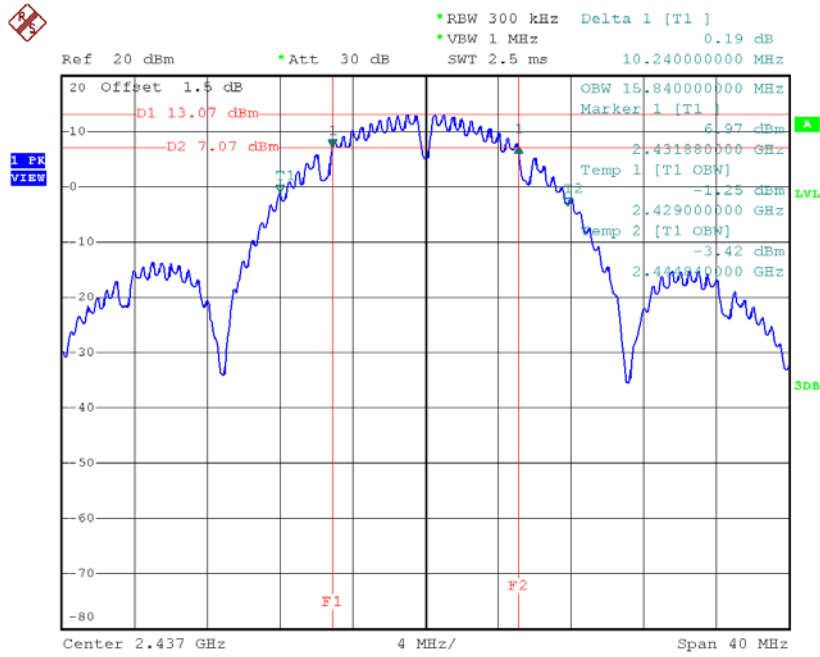
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	10.24	15.20	500	Complies
2437	10.24	15.84	500	Complies
2462	10.24	15.20	500	Complies

TX CH01



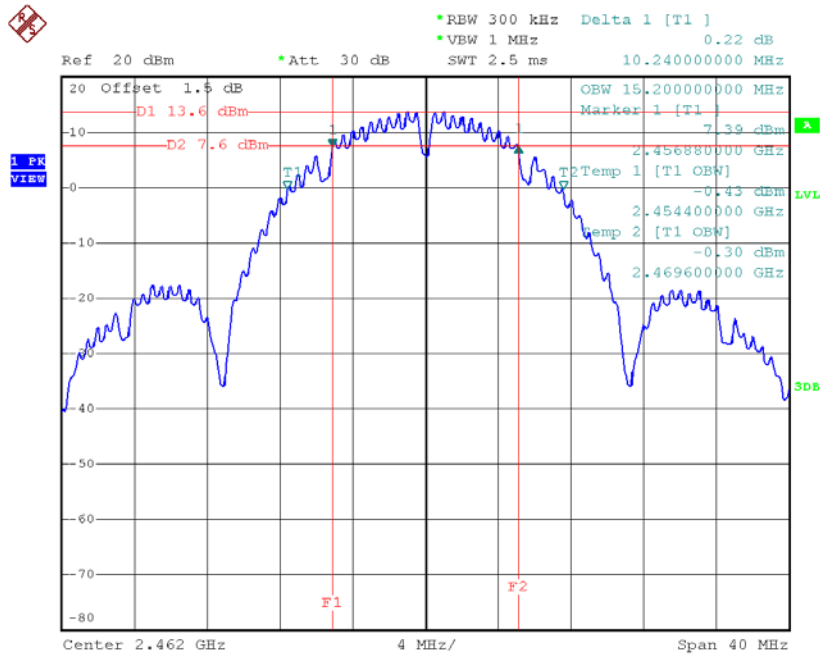
Date: 12.JUL.2018 17:49:09

TX CH06



Date: 12.JUL.2018 17:54:59

TX CH11

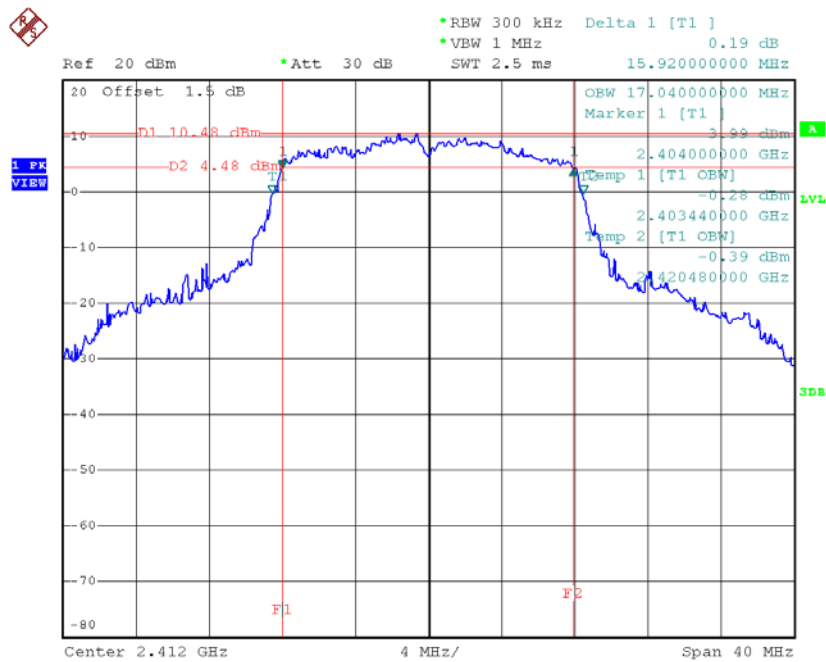


Date: 12.JUL.2018 17:58:38

Test Mode: TX G Mode_CH01/06/11

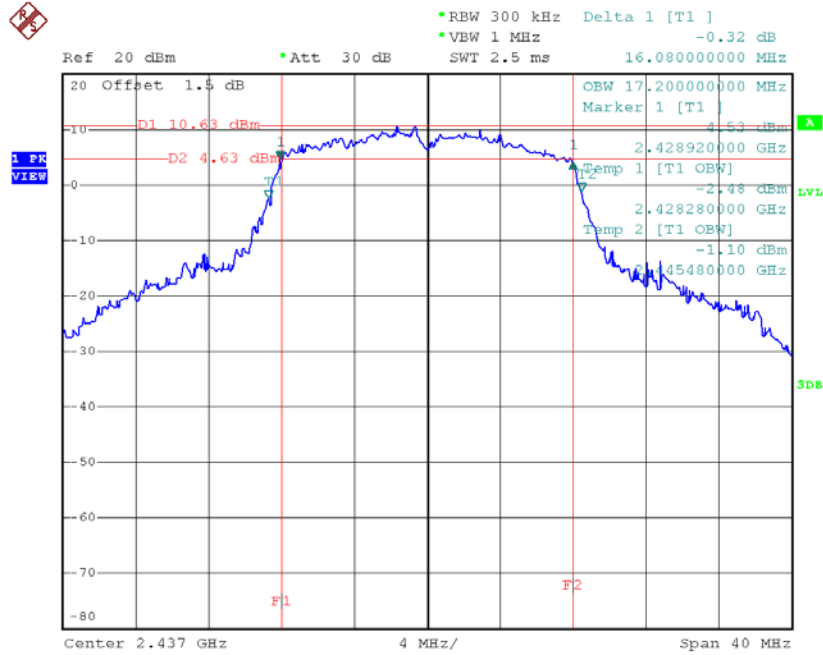
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	15.92	17.04	500	Complies
2437	16.08	17.20	500	Complies
2462	15.76	17.12	500	Complies

TX CH01



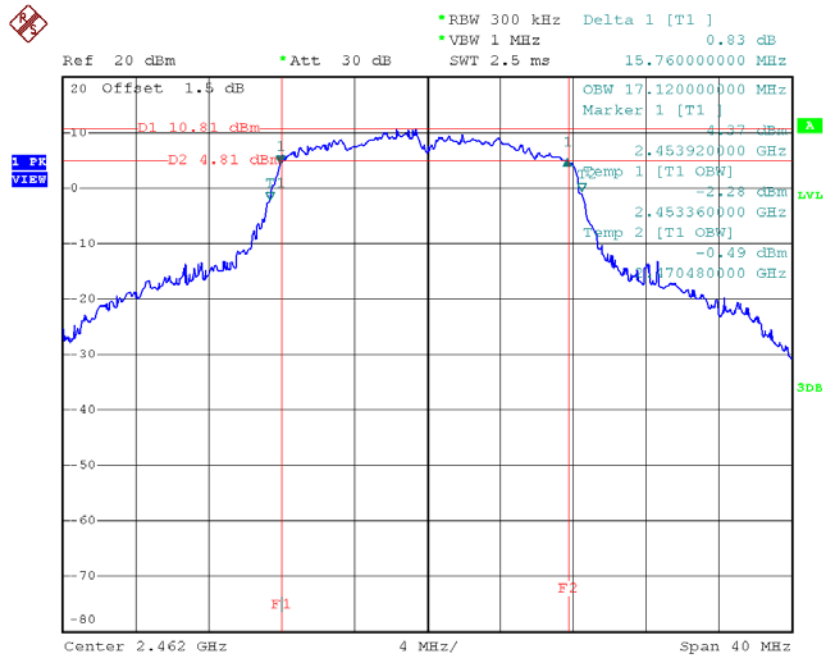
Date: 12.JUL.2018 18:48:18

TX CH06



Date: 12.JUL.2018 18:50:04

TX CH11

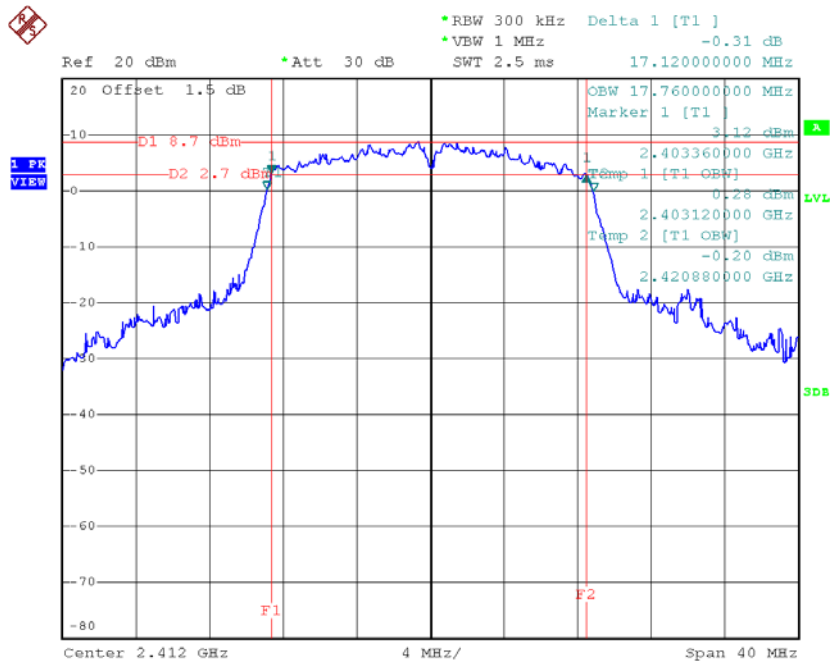


Date: 12.JUL.2018 18:51:17

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

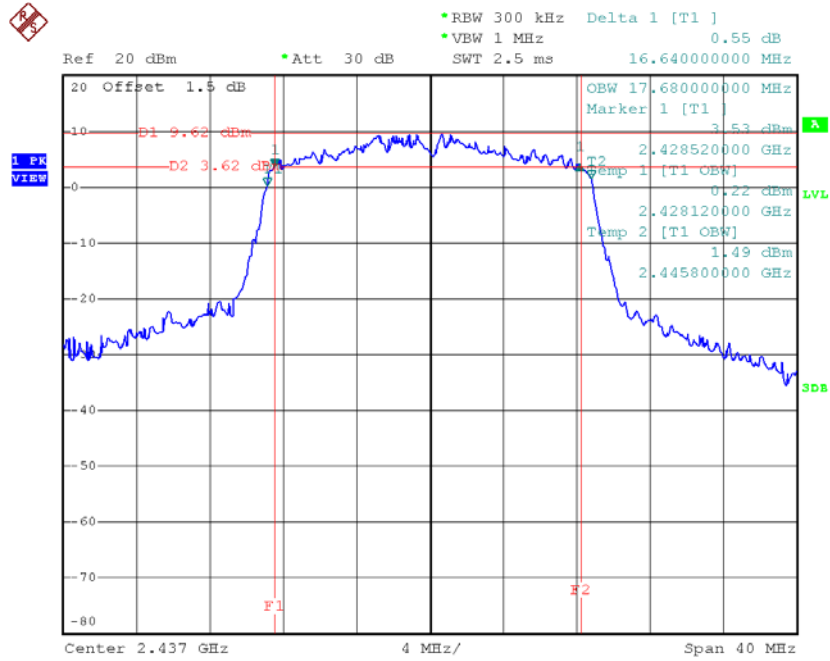
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2412	17.12	17.76	500	Complies
2437	16.64	17.68	500	Complies
2462	17.12	18.16	500	Complies

TX CH01



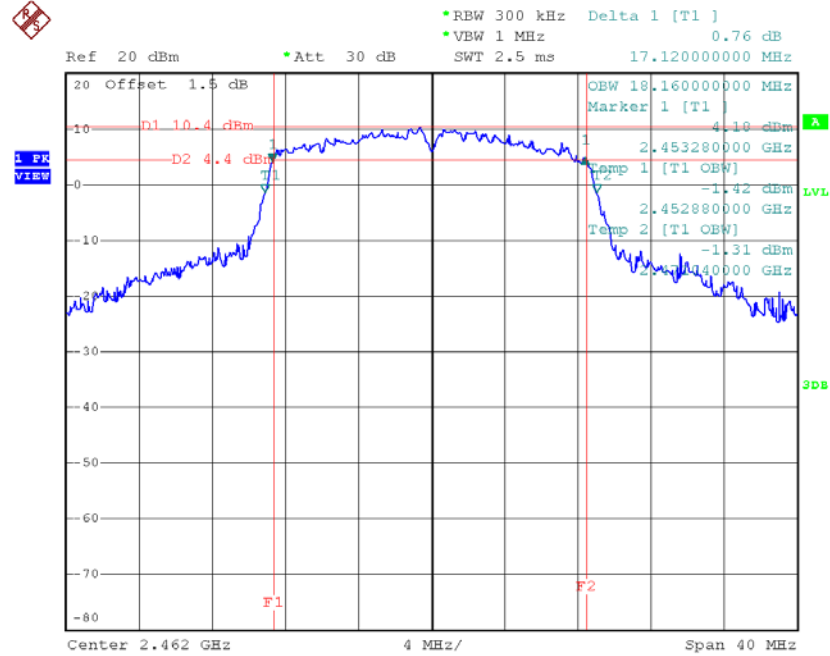
Date: 12.JUL.2018 18:53:50

TX CH06



Date: 13.JUL.2018 09:03:13

TX CH11

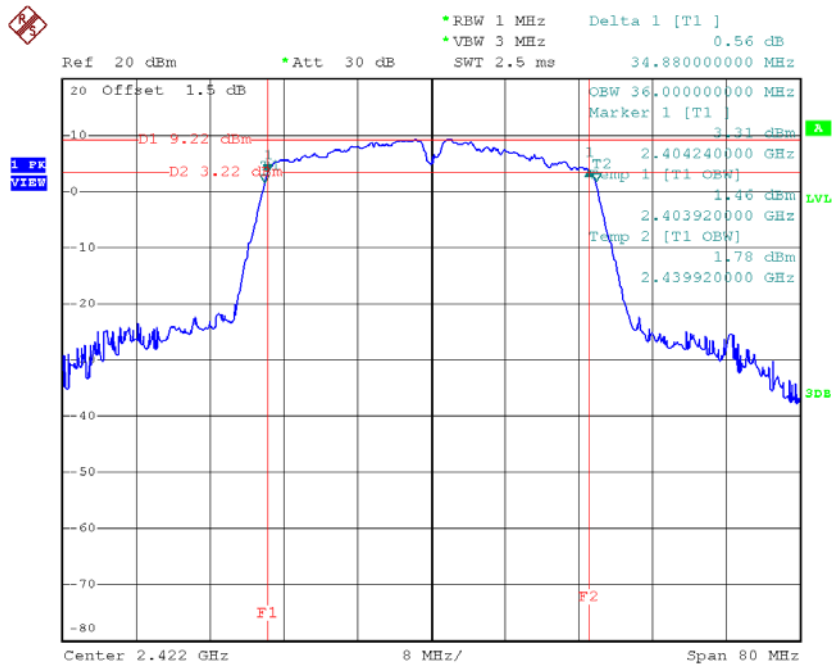


Date: 12.JUL.2018 18:56:25

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

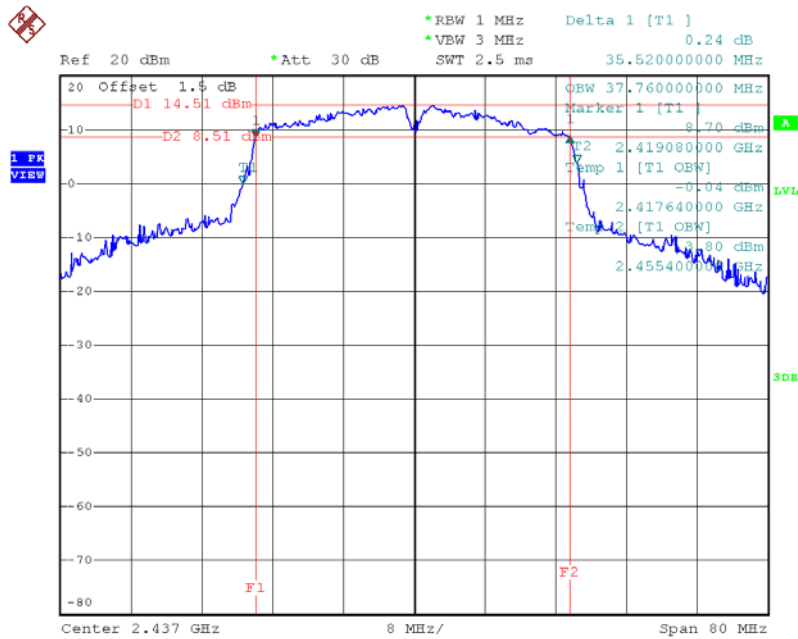
Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2422	34.88	36.00	500	Complies
2437	35.52	37.76	500	Complies
2452	35.04	36.32	500	Complies

TX CH03



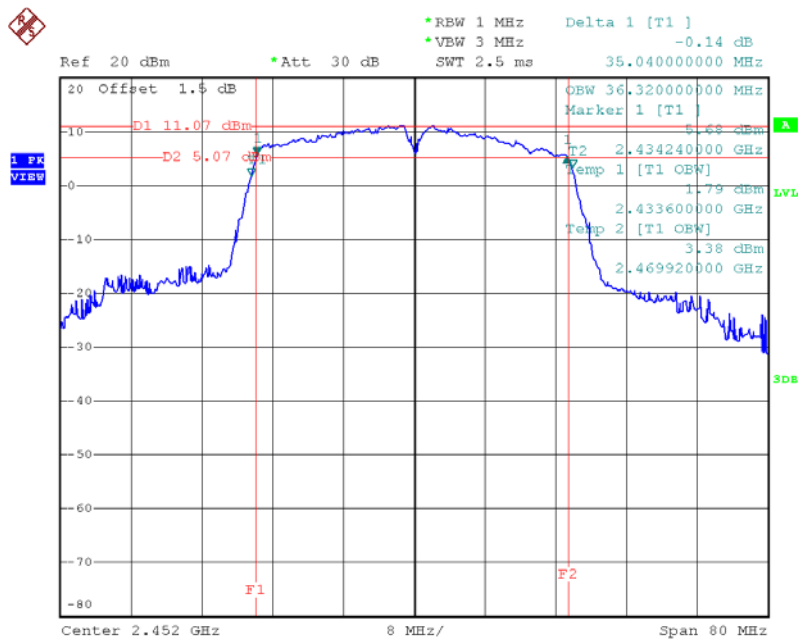
Date: 12.JUL.2018 19:06:12

TX CH06



Date: 12.JUL.2018 19:07:34

TX CH09



Date: 12.JUL.2018 19:08:53

APPENDIX F - MAXIMUM AVG OUTPUT POWER

Test Mode :TX B Mode_CH01/06/11_ANT 1

Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.32	0.14	30.00	1.00	Complies
2437	21.31	0.14	30.00	1.00	Complies
2462	21.47	0.14	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_ANT 2

Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.72	0.15	30.00	1.00	Complies
2437	21.95	0.16	30.00	1.00	Complies
2462	21.52	0.14	30.00	1.00	Complies

Test Mode :TX B Mode_CH01/06/11_Total

Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	24.53	0.28	30.00	1.00	Complies
2437	24.65	0.29	30.00	1.00	Complies
2462	24.51	0.28	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 1					
Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.88	0.06	30.00	1.00	Complies
2437	21.52	0.14	30.00	1.00	Complies
2462	19.22	0.08	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_ANT 2					
Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	18.75	0.07	30.00	1.00	Complies
2437	20.54	0.11	30.00	1.00	Complies
2462	19.61	0.09	30.00	1.00	Complies

Test Mode :TX G Mode_CH01/06/11_Total					
Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	21.35	0.14	30.00	1.00	Complies
2437	24.07	0.26	30.00	1.00	Complies
2462	22.43	0.17	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 1					
Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	16.31	0.04	30.00	1.00	Complies
2437	21.91	0.16	30.00	1.00	Complies
2462	18.11	0.06	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_ANT 2					
Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	17.17	0.05	30.00	1.00	Complies
2437	20.69	0.12	30.00	1.00	Complies
2462	18.51	0.07	30.00	1.00	Complies

Test Mode :TX N20 Mode_CH01/06/11_Total					
Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2412	19.77	0.09	30.00	1.00	Complies
2437	24.35	0.27	30.00	1.00	Complies
2462	21.32	0.14	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_ANT 1					
Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	13.61	0.02	30.00	1.00	Complies
2437	19.01	0.08	30.00	1.00	Complies
2452	15.52	0.04	30.00	1.00	Complies

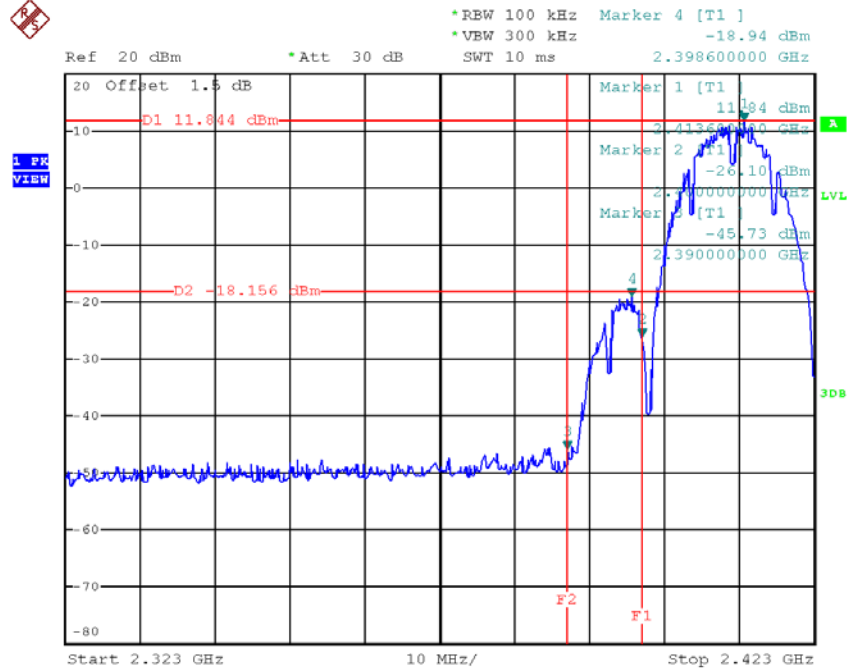
Test Mode :TX N40 Mode_CH03/06/09_ANT 2					
Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	14.21	0.03	30.00	1.00	Complies
2437	19.65	0.09	30.00	1.00	Complies
2452	16.19	0.04	30.00	1.00	Complies

Test Mode :TX N40 Mode_CH03/06/09_Total					
Frequency (MHz)	AVGPower (dBm)	AVGPower (W)	Max. Limit (dBm)	Max. Limit (W)	Result
2422	16.93	0.05	30.00	1.00	Complies
2437	22.35	0.17	30.00	1.00	Complies
2452	18.88	0.08	30.00	1.00	Complies

APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

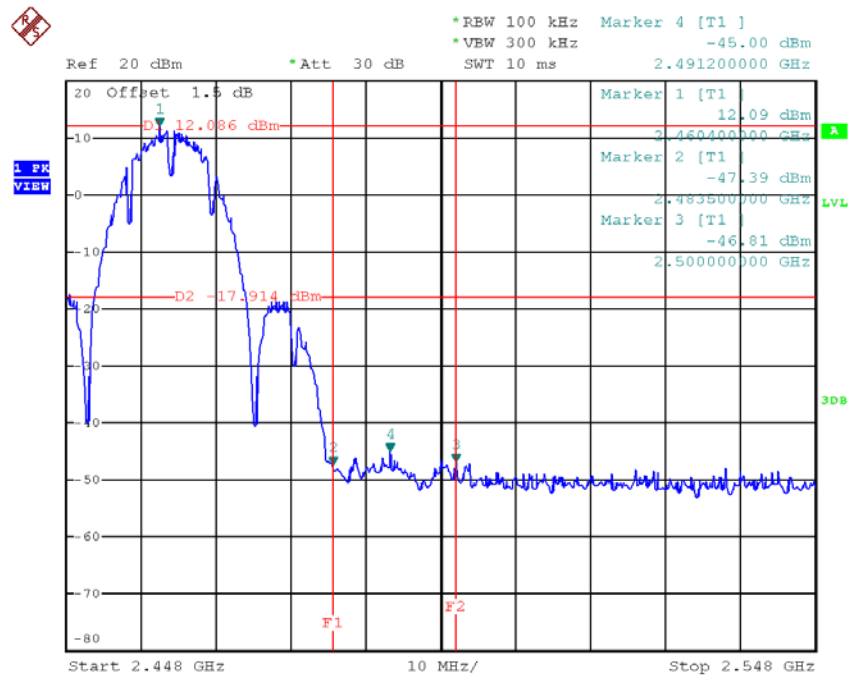
Test Mode : TX B Mode_ANT 1

TX B mode CH01



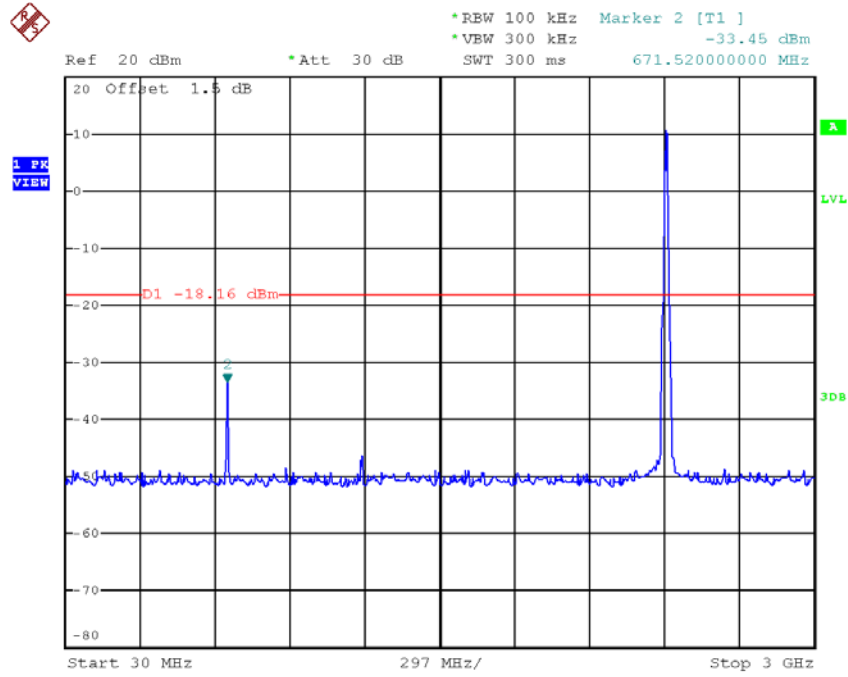
Date: 14.MAY.2018 13:42:20

TX B mode CH11

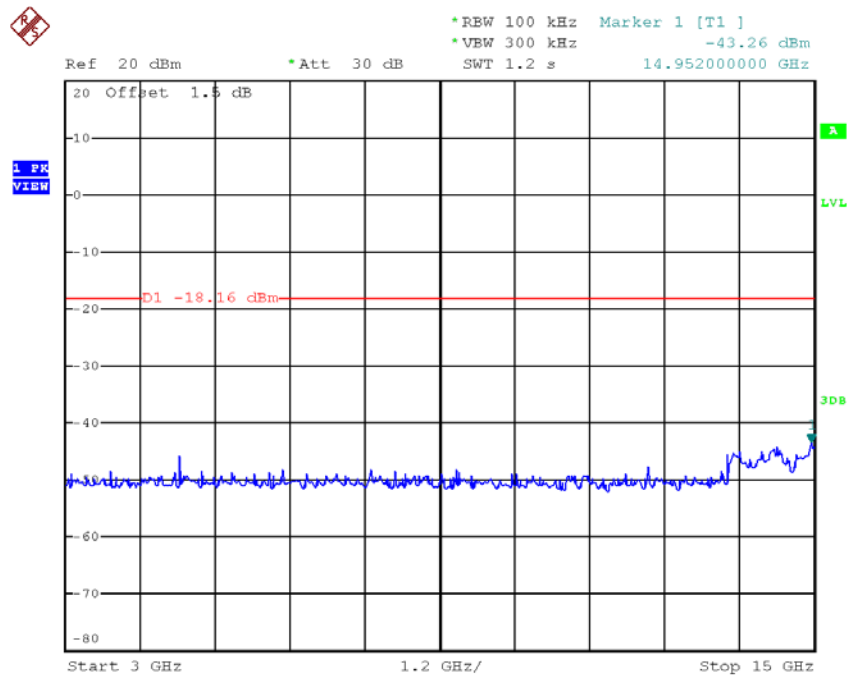


Date: 14.MAY.2018 13:51:27

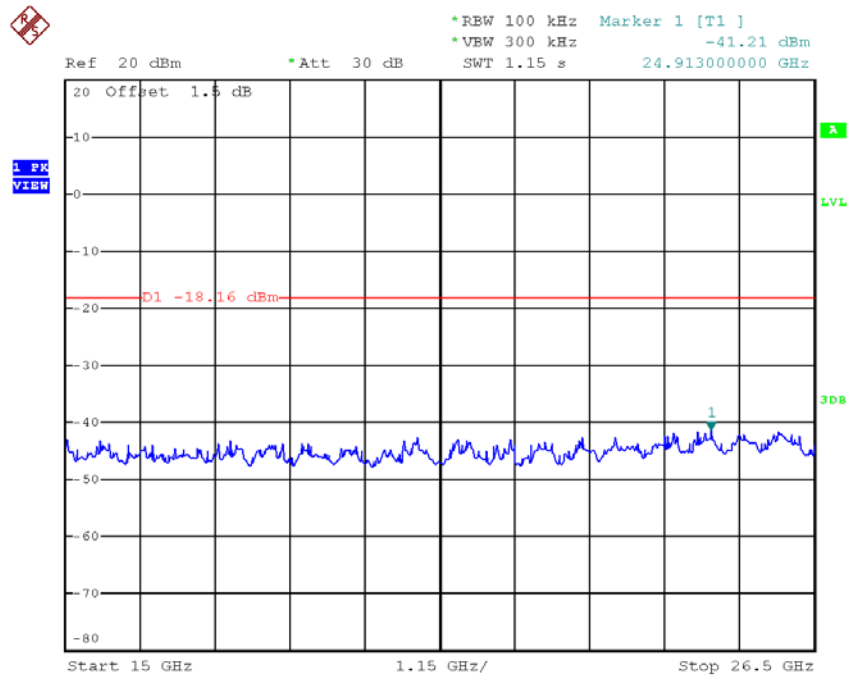
TX B mode CH01 (10 Harmonic of the frequency)



Date: 14.MAY.2018 13:43:24

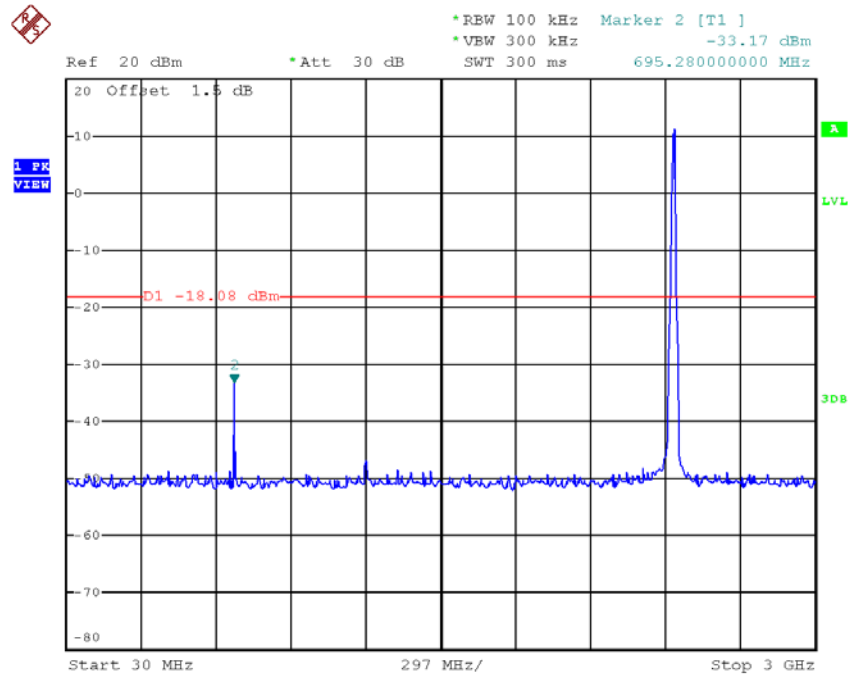


Date: 14.MAY.2018 13:44:15

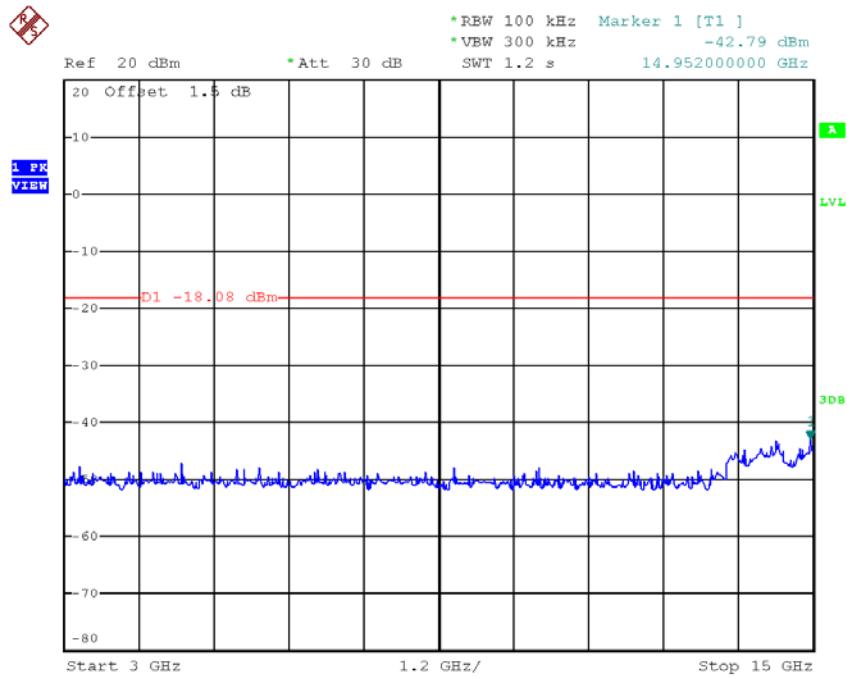


Date: 14.MAY.2018 13:44:23

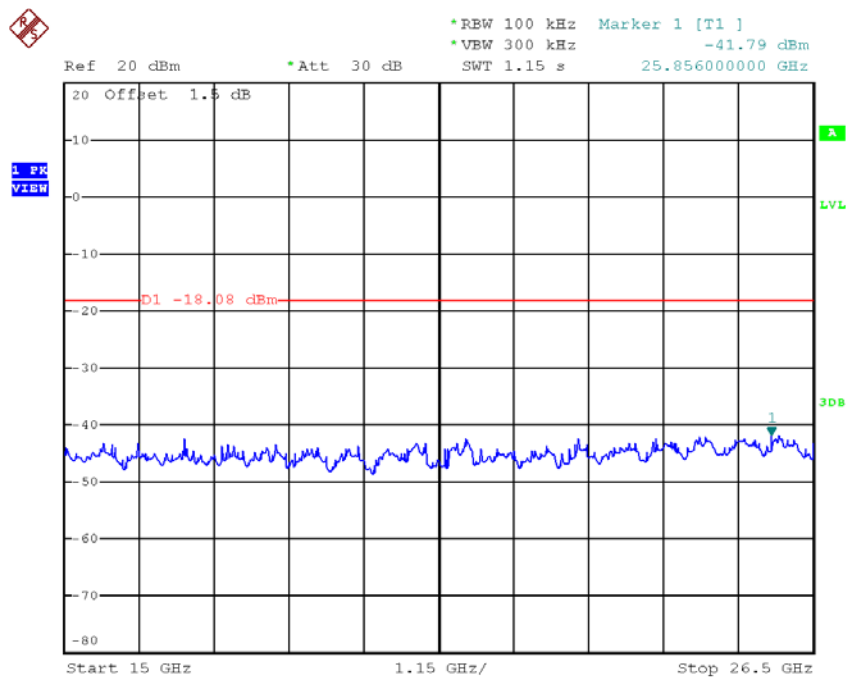
TX B mode CH06 (10 Harmonic of the frequency)



Date: 14.MAY.2018 13:47:00

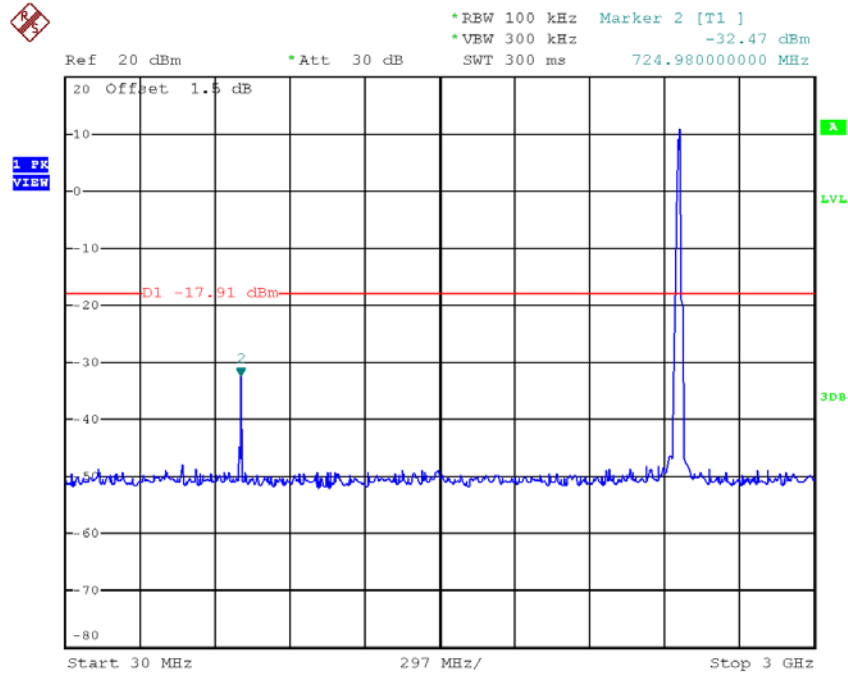


Date: 14.MAY.2018 13:48:42

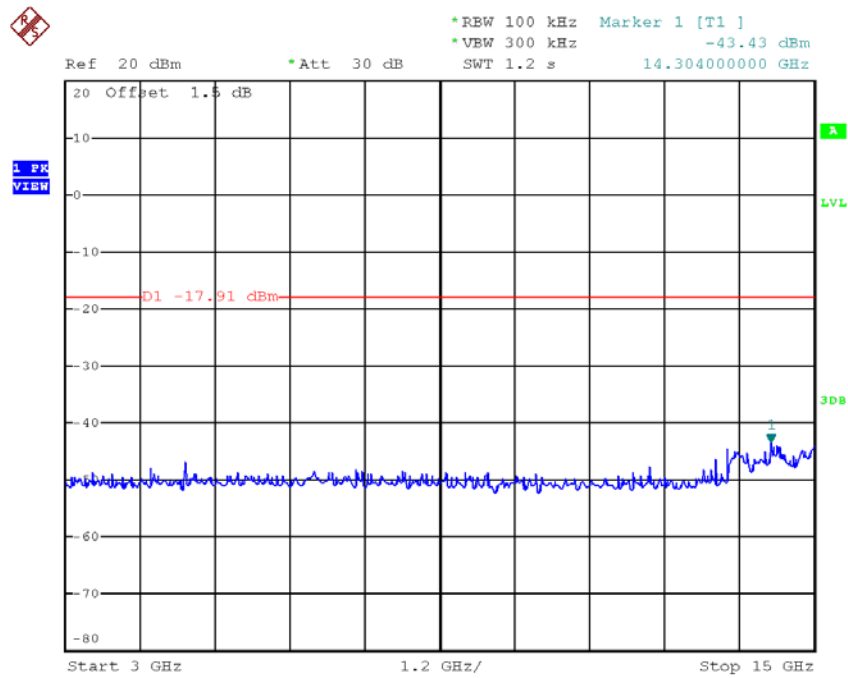


Date: 14.MAY.2018 13:48:50

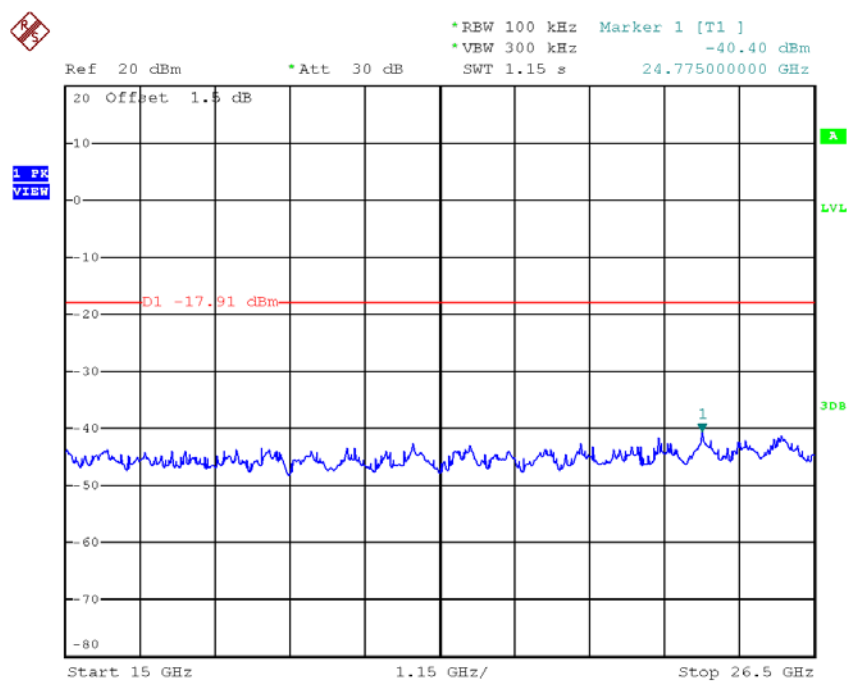
TX B mode CH11 (10 Harmonic of the frequency)



Date: 14.MAY.2018 13:52:21



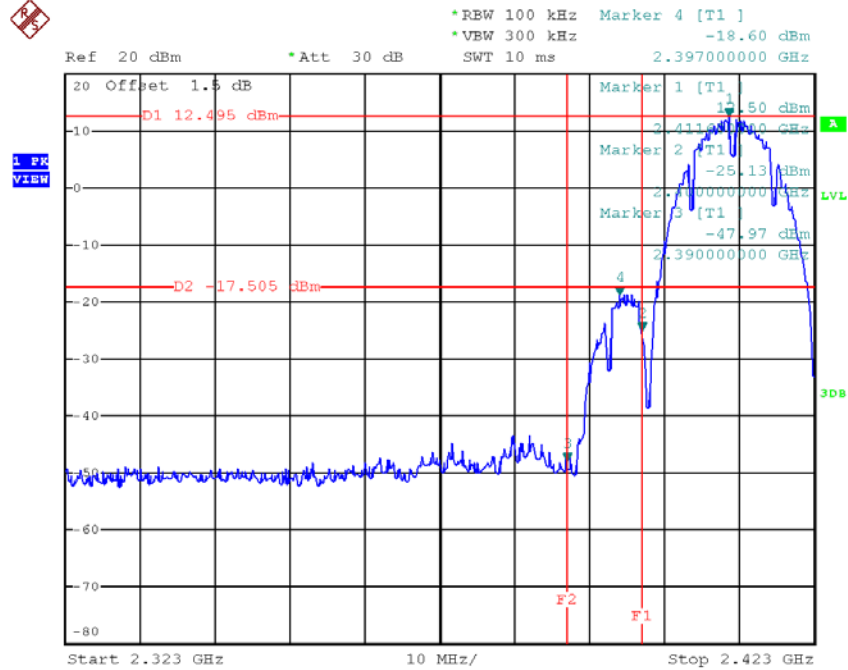
Date: 14.MAY.2018 13:54:01



Date: 14.MAY.2018 13:54:08

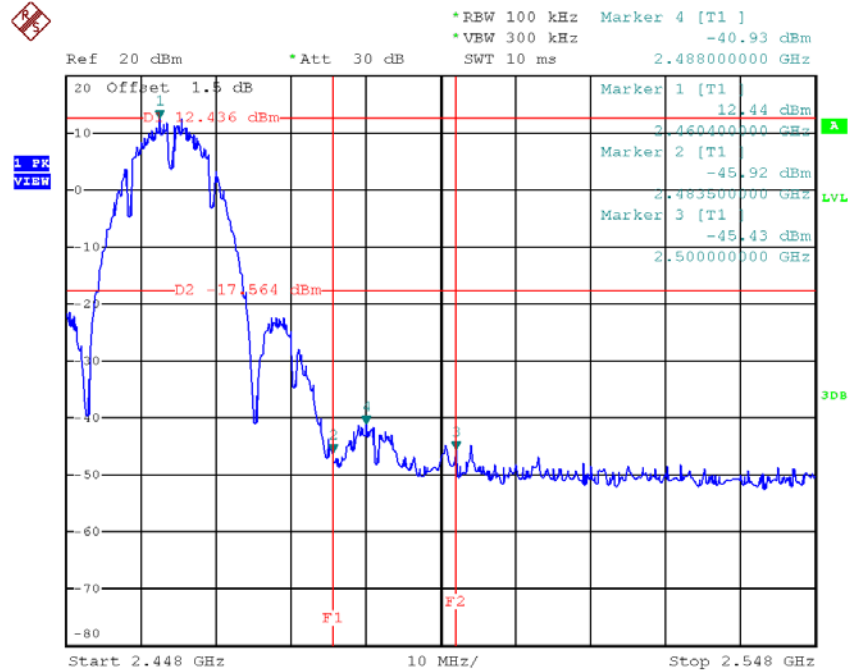
Test Mode : TX B Mode_ANT 2

TX B mode CH01



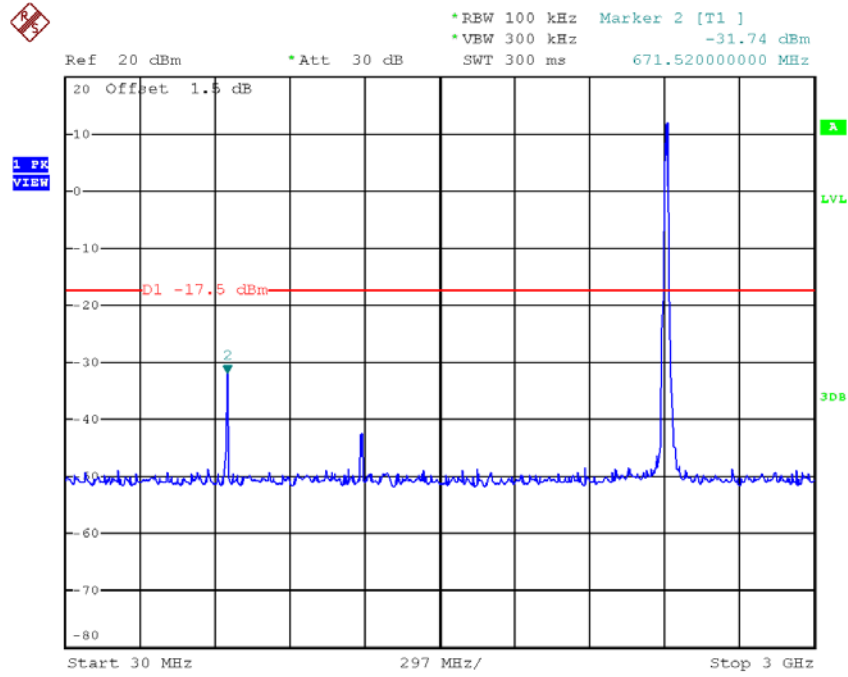
Date: 14.MAY.2018 11:04:26

TX B mode CH11

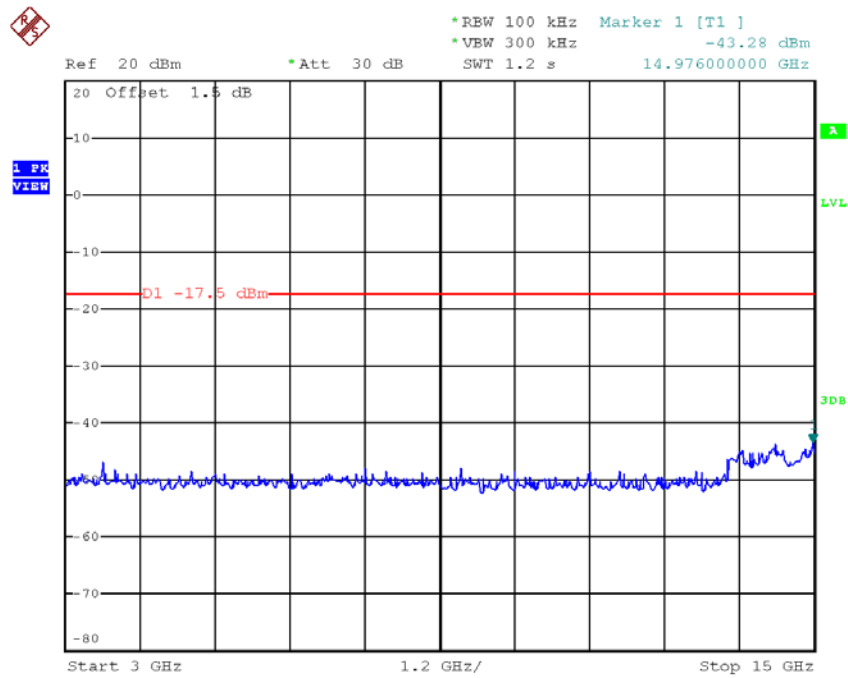


Date: 14.MAY.2018 11:13:53

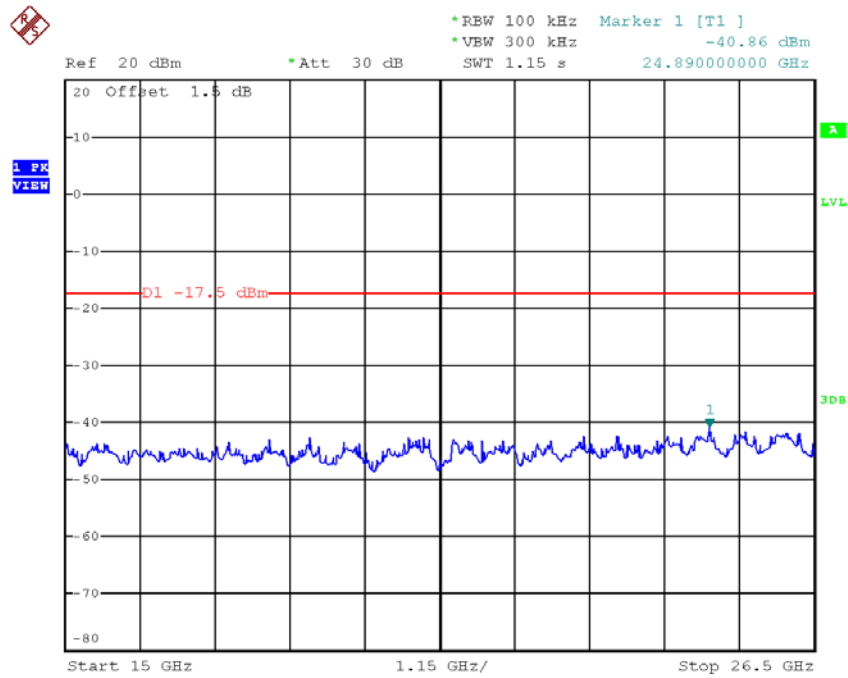
TX B mode CH01 (10 Harmonic of the frequency)



Date: 14.MAY.2018 11:06:03

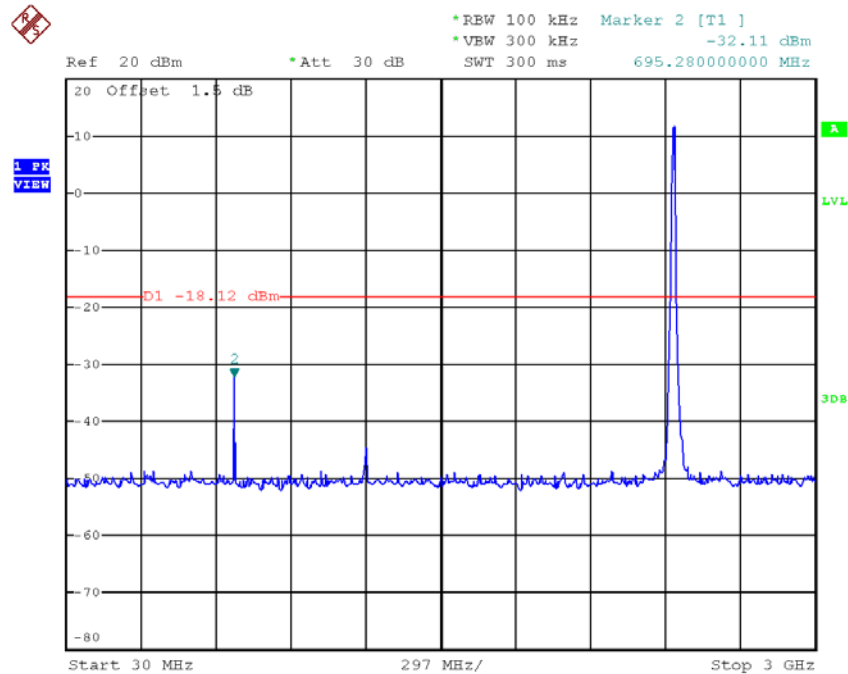


Date: 14.MAY.2018 11:07:09



Date: 14.MAY.2018 11:07:16

TX B mode CH06 (10 Harmonic of the frequency)



Date: 14.MAY.2018 11:11:22