

FCC Radio Test Report

FCC ID: PJZ272XY1

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

Project No. : 1601C101
Equipment : (1) GE 4 Port WiFi 802.11ac Gateway
(2) GPON 4 Port WiFi 802.11ac Gateway
Model Name : (1) ZNID-GE-2726A1-XX, ZNID-GE-2726A1-NYY,
ZNID-GE-2726A1-XX-NYY, ZNID-GE-2726H1-XX,
ZNID-GE-2726H1-NYY, ZNID-GE-2726H1-XX-NYY
(2) ZNID-GPON-2727A1-XX, ZNID-GPON-2727A1-NYY,
ZNID-GPON-2727A1-XX-NYY,
ZNID-GPON-2726A1-XX, ZNID-GPON-2726A1-NYY,
ZNID-GPON-2726A1-XX-NYY,
ZNID-GPON-2726H1-XX, ZNID-GPON-2726H1-NYY,
ZNID-GPON-2726H1-XX-NYY
More details please refer to page 10.
Applicant : ZHONE TECHNOLOGIES, INC.
Address : 7195 Oakport Street Oakland, CA 94621 USA

Date of Receipt : Jan. 12, 2016
Date of Test : Jan. 12, 2016 ~ May 10, 2016
Issued Date : May 11, 2016
Tested by : BTL Inc.

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Declaration

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1601C101	Original Issue.	May. 11, 2016

1. CERTIFICATION

Equipment : (1) GE 4 Port WiFi 802.11ac Gateway
(2) GPON 4 Port WiFi 802.11ac Gateway

Brand Name :  **Z H O N E**
Bandwidth Changes Everything™

Model Name : 1) ZNID-GE-2726A1-XX, ZNID-GE-2726A1-NYY, ZNID-GE-2726A1-XX-NYY,
ZNID-GE-2726H1-XX, ZNID-GE-2726H1-NYY, ZNID-GE-2726H1-XX-NYY
(2) ZNID-GPON-2727A1-XX, ZNID-GPON-2727A1-NYY,
ZNID-GPON-2727A1-XX-NYY, ZNID-GPON-2726A1-XX,
ZNID-GPON-2726A1-NYY, ZNID-GPON-2726A1-XX-NYY,
ZNID-GPON-2726H1-XX, ZNID-GPON-2726H1-NYY,
ZNID-GPON-2726H1-XX-NYY

More details please refer to page 10.

Applicant : ZHONE TECHNOLOGIES, INC.
Manufacturer: ZHONE TECHNOLOGIES, INC.
Address : 7195 Oakport Street Oakland, CA 94621 USA
Date of Test : Jan. 12, 2016 ~ May 10, 2016
Test Sample : Engineering Sample
Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.10

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-2-1601C101) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E			
Standard(s) Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.407(a)	26dB Spectrum Bandwidth	PASS	
15.407(a)	Maximum Conducted Output Power	PASS	
15.407(a)	Power Spectral Density	PASS	
15.407(a)	Radiated Emissions	PASS	
15.407(b)	Band Edge Emissions	PASS	
15.407(g)	Frequency Stability	PASS	
15.203	Antenna Requirements	PASS	

NOTE:

(1) "N/A" denotes test is not applicable in this test report.

2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

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

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

A. Conducted Measurement:

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


B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB03	CISPR	9kHz~30MHz	V	3.79
		9kHz~30MHz	H	3.57
		30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	H	3.60
		200MHz ~ 1,000MHz	V	3.86
		200MHz ~ 1,000MHz	H	3.94
		1GHz~18GHz	V	3.12
		1GHz~18GHz	H	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	H	4.14

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	(1) GE 4 Port WiFi 802.11ac Gateway (2) GPON 4 Port WiFi 802.11ac Gateway	
Brand Name	 <small>Bandwidth Changes Everything™</small>	
Model Name	(1) ZNID-GE-2726A1-XX, ZNID-GE-2726A1-NYY, ZNID-GE-2726A1-XX-NYY, ZNID-GE-2726H1-XX, ZNID-GE-2726H1-NYY, ZNID-GE-2726H1-XX-NYY (2) ZNID-GPON-2727A1-XX, ZNID-GPON-2727A1-NYY, ZNID-GPON-2727A1-XX-NYY, ZNID-GPON-2726A1-XX, ZNID-GPON-2726A1-NYY, ZNID-GPON-2726A1-XX-NYY, ZNID-GPON-2726H1-XX, ZNID-GPON-2726H1-NYY, ZNID-GPON-2726H1-XX-NYY ("XX"= NA, EU, UK, SG, blank. which indicates the power adapter plug type, For the optional "NYY" used only in Customer-specific configurations, "N" identifies the Revision number of the configuration from 0 to 9 or blank, and "YY" specifies the customer using a unique two letter identifier from A to Z or blank.)	
Mode Different	Optical module is point to point for GE series, Optical module is not point to point for GPON series.	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	1.3 Gbps
Power Source	1) DC voltage supplied from AC adapter. #1 Model: S36B52-120A300-04 #2 Model: SOY-1200300US #3 Model: S040EB1200300 #4 Model: SOY-1200300GB #5 Model: S36B53-120A300-04 2) Supplied from UPS. Model: PS36L-P7	
Power Rating	EUT I/P: 12V 2A 1)#1 I/P: 100-240V~50/60Hz Max 1.0A O/P: 12V---3A #2 I/P: 100-240V~50/60Hz 1.2A Max. O/P: 12V---3.0A #3 I/P: 100-240V~50/60Hz 1.2A Max. O/P: 12.0V---3000mA #4 I/P: 100-240V~50/60Hz 0.9A Max. O/P: 12V---3.0A #5 I/P: 100-240V~50/60Hz Max 1.0A O/P: 12V---3A 2) I/P: 100-240V~50/60Hz 1A MAX O/P: 12V---3.0Amax(On Vac), 16.0V-11V 3Amax(On Battery)	

Output Power	Output Power (Max.)for UNII-1	802.11a: 22.34dBm 802.11n (20M): 22.98dBm 802.11n (40M): 24.59dBm 802.11ac (20M): 22.96dBm 802.11ac (40M): 25.27dBm 802.11ac (80M): 19.82dBm
	Output Power (Max.)for UNII-3	802.11a: 18.95dBm 802.11n (20M): 13.36dBm 802.11n (40M): 13.58dBm 802.11ac (20M): 14.82dBm 802.11ac (40M): 15.75dBm 802.11ac (80M): 17.93dBm

Note:

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

2. Channel List:

UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	U.FL	2
2	N/A	N/A	PCB	U.FL	2
3	N/A	N/A	PCB	U.FL	2

4.

Operating Mode	1TX	3TX
TX Mode		
802.11a	V (ANT 1)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2 + ANT 3)
802.11n(40MHz)	-	V (ANT 1 + ANT 2 + ANT 3)
802.11ac(20MHz)	-	V (ANT 1 + ANT 2 + ANT 3)
802.11ac(40MHz)	-	V (ANT 1 + ANT 2 + ANT 3)
802.11ac(80MHz)	-	V (ANT 1 + ANT 2 + ANT 3)

3.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)
Mode 13	TX Mode

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

For Conducted Test	
Final Test Mode	Description
Mode 13	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

Note:

(1) For radiated below 1GHz test, the 802.11a mode is found to be the worst case and recorded.

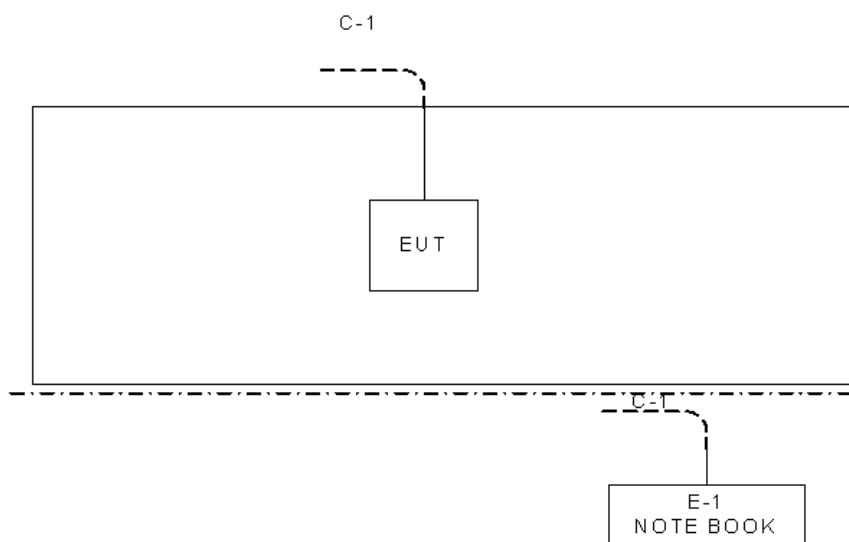
3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

UNII-1			
Test Software Version	MTool		
Frequency (MHz)	5180	5200	5240
A Mode	70	77	77
N20 Mode	59	61	62
AC20 Mode	61	62	62
Frequency (MHz)	5190	5230	
N40 Mode	54	72	
AC40 Mode	53	73	
Frequency (MHz)	5210		
AC80 Mode	53		

UNII-3			
Test Software Version	MTool		
Frequency (MHz)	5745	5785	5825
A Mode	86	85	80
N20 Mode	48	48	48
AC20 Mode	53	50	48
Frequency (MHz)	5755	5795	
N40 Mode	50	50	
AC40 Mode	56	56	
Frequency (MHz)	5775		
AC80 Mode	65		

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.
E-1	NOTEBOOK	Dell	DCSM 745	DOC	G7K832X

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	10M	RJ45 Cable

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.50	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

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

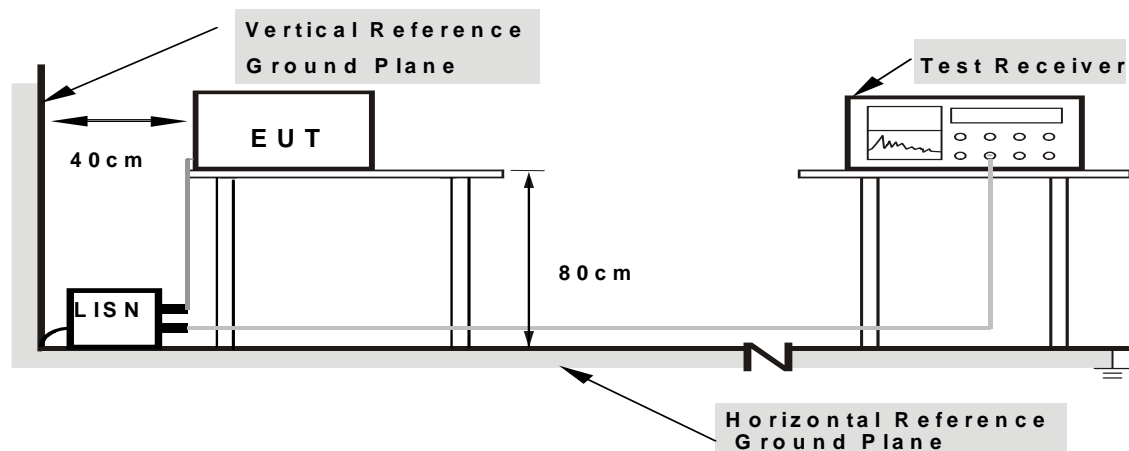
4.1.2 TEST PROCEDURE

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

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



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

4.1.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting/TX Mode mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “ * ” marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150kHz to 30MHz.

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.

Frequencies (MHz)	Field Strength (micorvolts/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
Above 960	500	3

Note:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
5725-5850	-27 (beyond 10MHz of the band edge)	68.3
	-17 (within 10 MHz of band edge)	78.3

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

4.2.2 TEST PROCEDURE

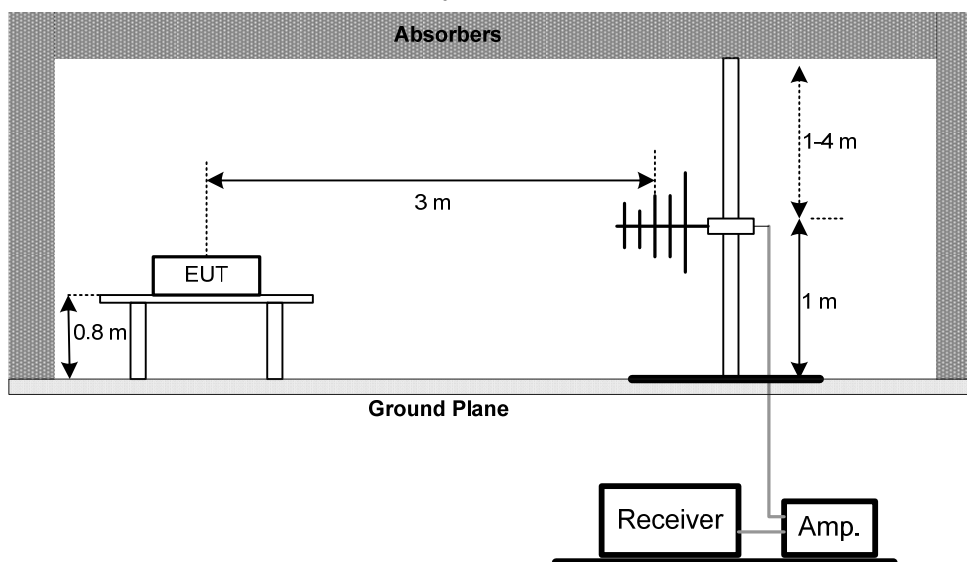
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5m, 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.
- d. 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.
- e. 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)
- f. 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)
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

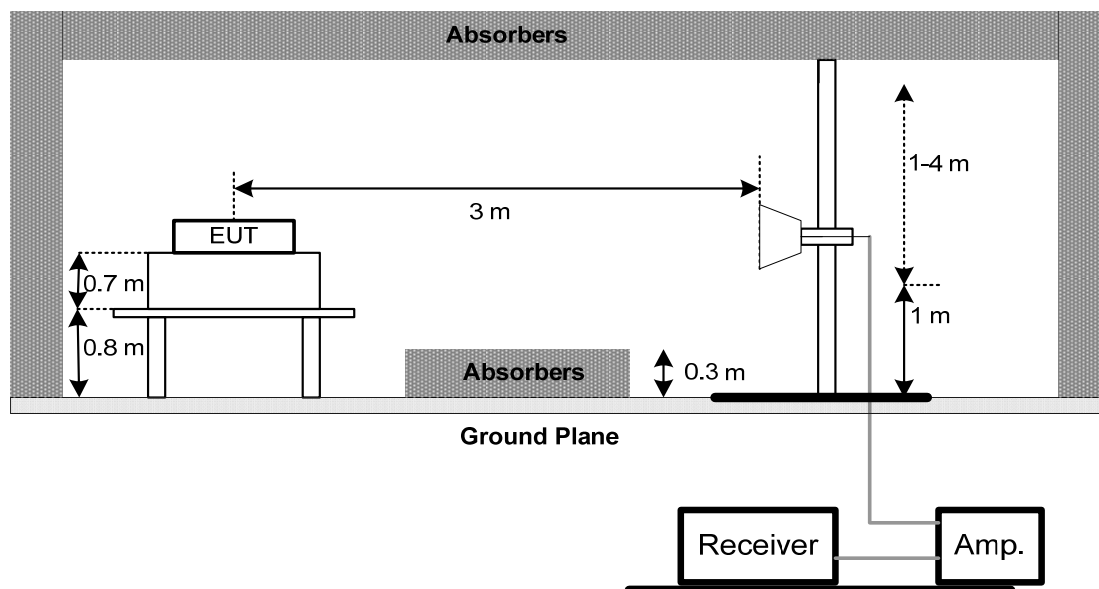
No deviation

4.2.4 TEST SETUP

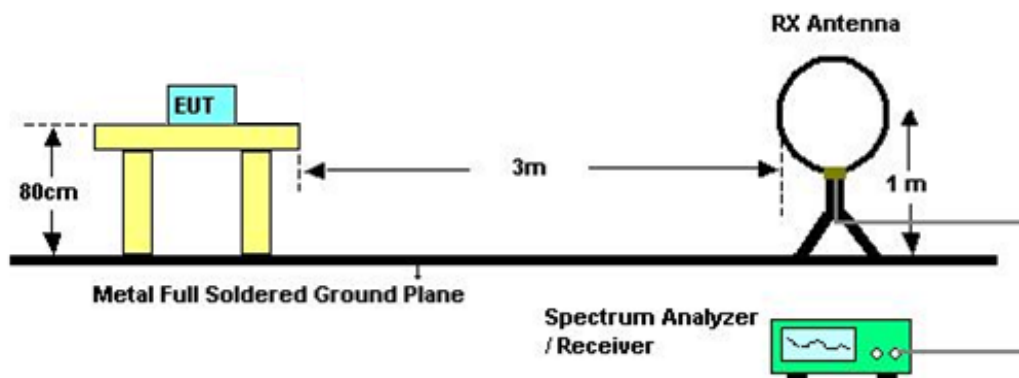
(A)Radiated Emission Test Set-Up Frequency Below 1GHz



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



(C) Radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.2.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: AC 120V/60Hz

4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Attachment B

Remark:

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

4.2.8 TEST RESULTS (BETWEEN 30 TO 1000 MHz)

Please refer to the Attachment C.

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Attachment D.

Remark:

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

5. 26dB SPECTRUM BANDWIDTH

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	26 dB Bandwidth	5150-5250	PASS
	Minimum 500kHz 6dB Bandwidth	5725-5850	PASS

5.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	300 kHz
VBW	1000 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

c. Measured the spectrum width with power higher than 26dB below carrier

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Attachment E.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Conducted Output Power	Fixed:1 Watt (30dBm) Mobile and portable: 250mW (24dBm)	5150-5250	PASS
	1 Watt (30dBm)	5725-5850	PASS
Note: The maximum e.i.r.p at anyelevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm)			

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b.

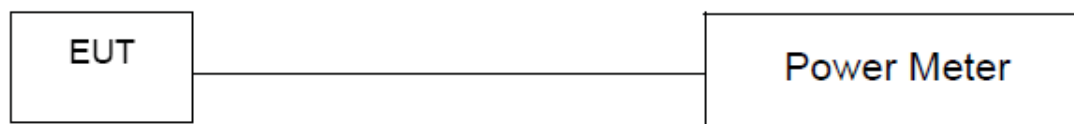
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	\geq 3MHz.
Detector	RMS
Trace	Max Hold
Sweep Time	auto

- c. Test was performed in accordance with method of KDB 789033 D02 v01r02.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	-27dBm/MHz	5150-5250	PASS
	Below -17dBm/MHz within 10MHz of band edge, below -27dBm/MHz beyond 10MHz of the band edge	5725-5850	PASS

7.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

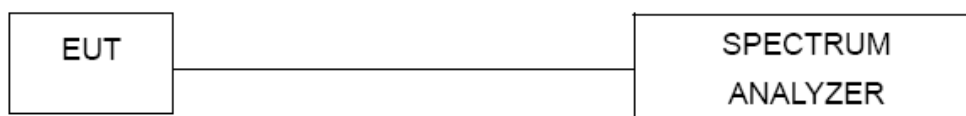
b.

Spectrum Parameter	Setting
Attenuation	Auto
RBW	1000kHz
VBW	1000kHz
Trace	Max Hold
Sweep Time	Auto

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	Other then Mobile and portable:17dBm/MHz Mobile and portable:11dBm/MHz	5150-5250	PASS
	30dBm/500kHz	5725-5850	PASS

8.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Detector	RMS
Trace average	100 trace
Sweep Time	Auto

Note:

1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.
2. The value measured with RBW=1MHz is to be added with $10\log(500\text{kHz}/1\text{MHz})$ which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 52% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Attachment H.

9. FREQUENCY STABILITY MEASUREMENT

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E			
Test Item	Limit	Frequency Range (MHz)	Result
FSpecified in the user's manual Specified in the user's manual frequency Stability	Specified in the user's manual	5150-5250	PASS
		5725-5850	PASS

9.1.1 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

b.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

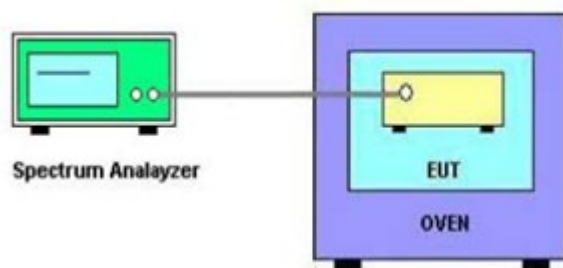
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is -5°C~45°C.

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 TEST SETUP



9.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

9.1.5 EUT TEST CONDITIONS

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

9.1.6 TEST RESULTS

Please refer to the Attachment I.

10. MEASUREMENT INSTRUMENTS LIST

Conducted Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	0052765	Mar. 27, 2017
2	LISN	R&S	ENV216	101447	Mar. 27, 2017
3	Test Cable	emci	RG223(9KHz-30 MHz)	C_17	Mar. 10, 2017
4	EMI Test Receiver	R&S	ESCI	100382	Mar. 27, 2017
5	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 27, 2017
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 27, 2017
2	Amplifier	HP	8447D	2944A09673	Nov. 09, 2016
3	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
4	Test Cable	emci	LMR-400(30MHz-1GHz)	C-01	Jun. 28, 2016
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 27, 2017
7	Amplifier	Agilent	8449B	3008A02274	Nov. 01, 2016
8	Receiver	AGILENT	N9038A	MY52130039	Oct. 11, 2016
9	Test Cable	emci	EMC104-SM-S M-10000(1GHz-26.5GHz)	C-68	Jun. 28, 2016
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 23, 2017
12	Microwave Pre-amplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 27, 2017
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Sep. 07, 2016
14	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Spectrum Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-S M-9000(0.01GH z – 26.5GHz)	C-100	N/A

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 27, 2017
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 27, 2017

Antenna Conducted Spurious Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-S M-9000(0.01GH z – 26.5GHz)	C-100	N/A

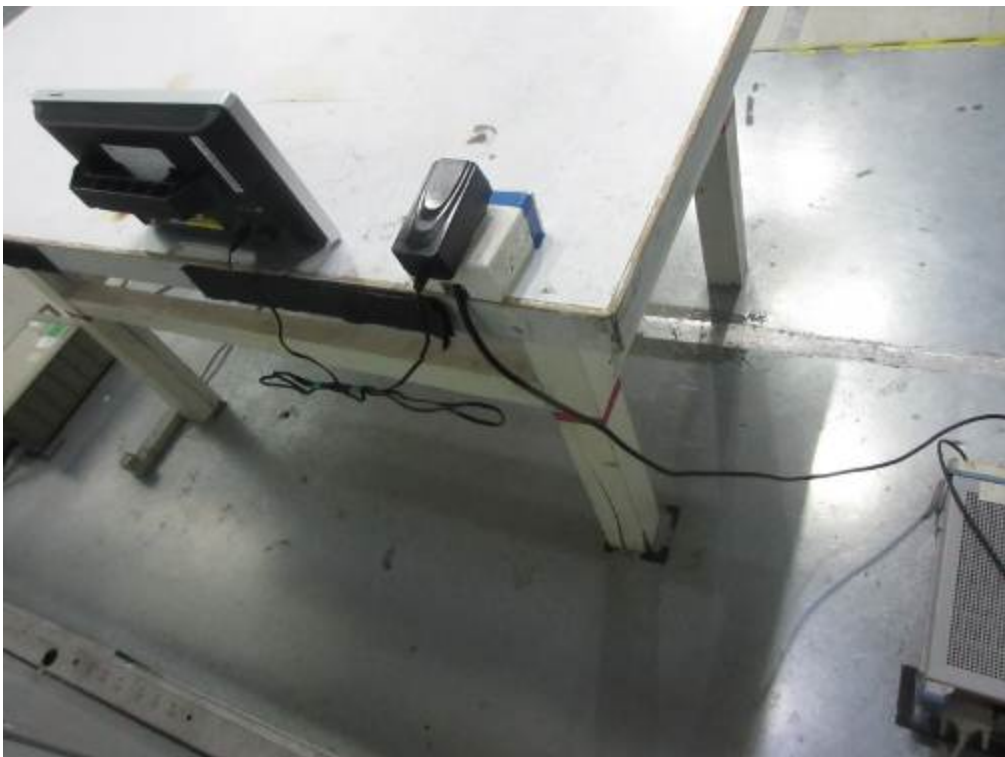
Power Spectral Density Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Oct. 11, 2016
2	Test Cable	emci	EMC104-SM-S M-9000(0.01GH z – 26.5GHz)	C-100	N/A

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Feb. 26, 2017
2	Test Cable	N/A	RG316	Cable4-001	Jul. 15, 2016
3	Const Temp. & Humidity Chamber	GIANT FORCE	ITH-225-20-S	IAB0309-001	Dec. 04, 2016
4	DC power supply	GW Instek	GPC-3030DN	EK880675	Oct. 13, 2016

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

11. EUT TEST PHOTO

Conducted Measurement Photos



Radiated Measurement Photos

9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

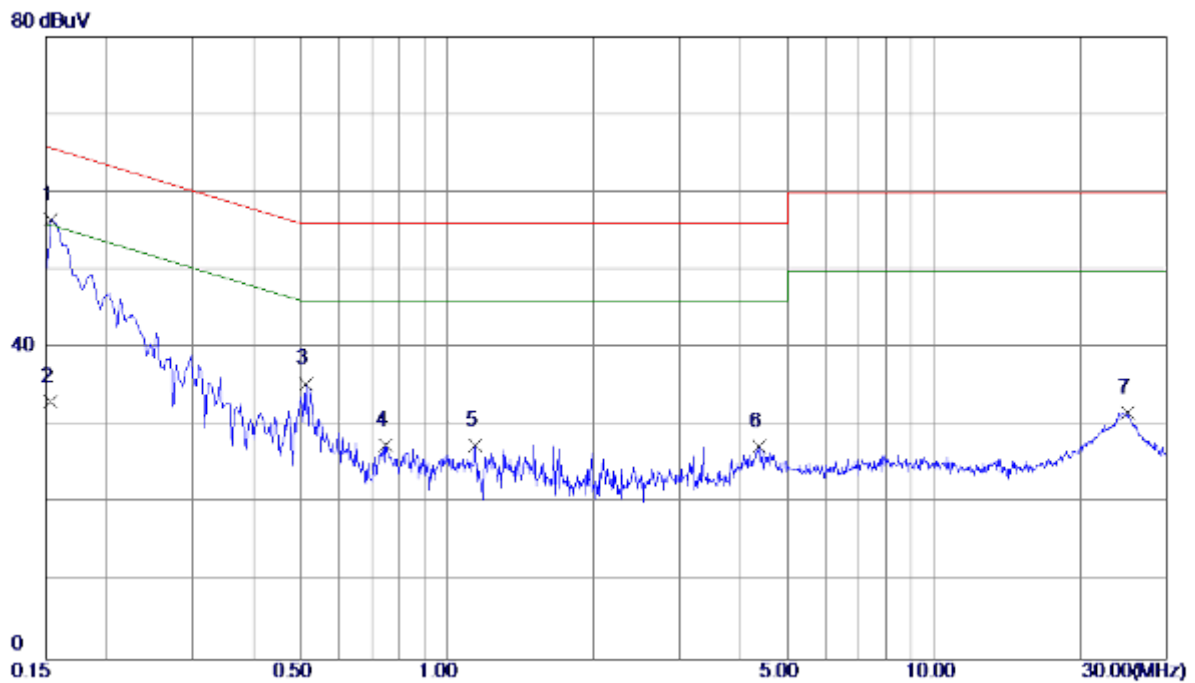
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX MODE

Line

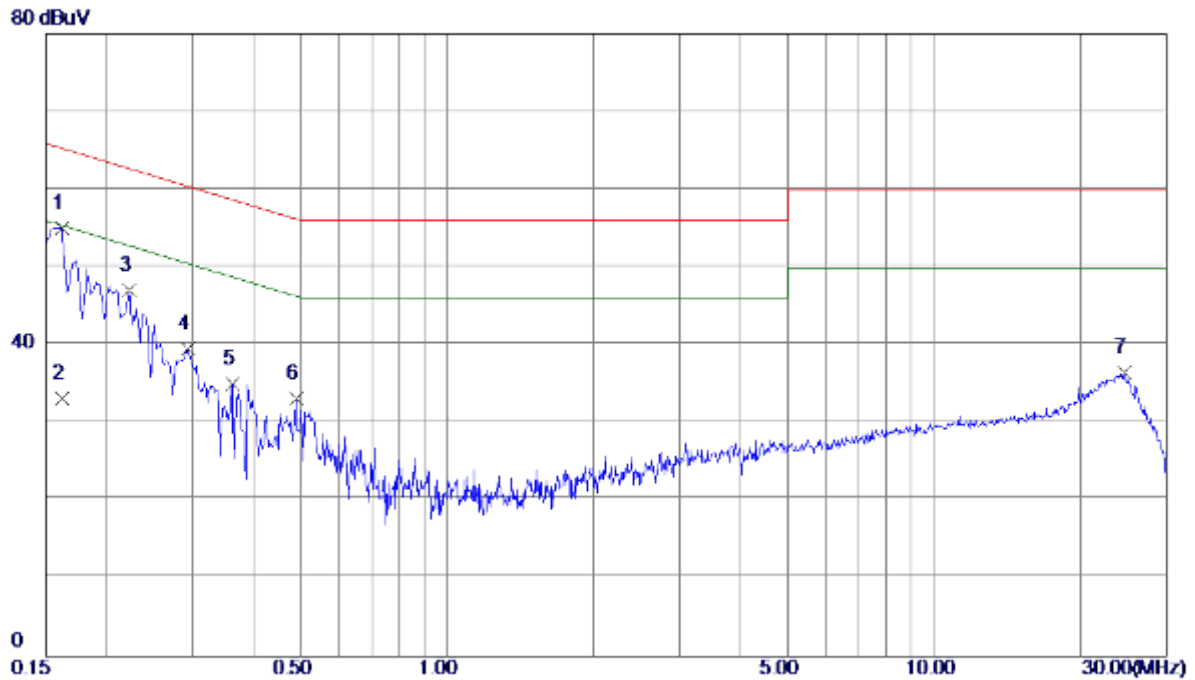


No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1539	46.99	9.54	56.53	65.79	-9.26	Peak	
2	0.1539	23.60	9.54	33.14	55.79	-22.65	AVG	
3	0.5140	25.75	9.69	35.44	56.00	-20.56	Peak	
4	0.7500	17.84	9.75	27.59	56.00	-28.41	Peak	
5	1.1420	17.76	9.81	27.57	56.00	-28.43	Peak	
6	4.3820	17.45	9.98	27.43	56.00	-28.57	Peak	
7	25.0300	21.75	9.95	31.70	60.00	-28.30	Peak	

Note : The test result has included the cable loss.

Test Mode: TX MODE

Neutral



No.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1 *	0.1620	45.59	9.48	55.07	65.36	-10.29	Peak	
2	0.1620	23.64	9.48	33.12	55.36	-22.24	AVG	
3	0.2220	37.54	9.51	47.05	62.74	-15.69	Peak	
4	0.2940	30.03	9.52	39.55	60.41	-20.86	Peak	
5	0.3620	25.56	9.53	35.09	58.68	-23.59	Peak	
6	0.4900	23.56	9.56	33.12	56.17	-23.05	Peak	
7	24.5860	26.42	10.00	36.42	60.00	-23.58	Peak	

Note : The test result has included the cable loss.

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

Test Mode:	TX A Mode 5180MHz
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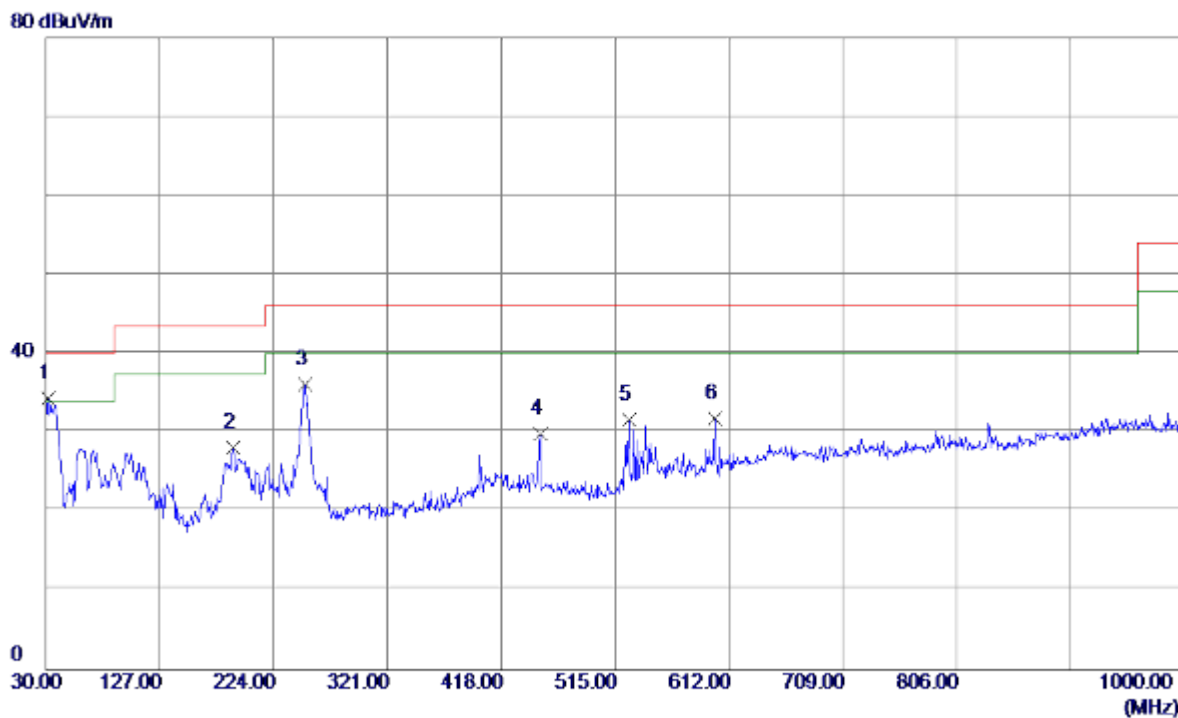
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0114	0°	13.35	24.8447	38.1947	126.4661	-88.2715	AVG
0.0114	0°	14.22	24.8447	39.0647	146.4661	-107.4015	PEAK
0.0263	0°	6.91	23.9010	30.8110	119.2051	-88.3941	AVG
0.0263	0°	8.64	23.9010	32.5410	139.2051	-106.6641	PEAK
0.0379	0°	3.87	23.1663	27.0363	116.0314	-88.9951	AVG
0.0379	0°	5.61	23.1663	28.7763	136.0314	-107.2551	PEAK
0.0525	0°	1.72	22.3500	24.0700	113.2010	-89.1310	AVG
0.0525	0°	2.57	22.3500	24.9200	133.2010	-108.2810	PEAK
0.5054	0°	19.79	19.8173	39.6073	73.5315	-33.9242	QP
1.9592	0°	23.04	19.5041	42.5441	69.5400	-26.9959	QP

Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0127	90°	13.42	24.3000	37.7200	125.5282	-87.8082	AVG
0.0127	90°	14.61	24.3000	38.9100	145.5282	-106.6182	PEAK
0.0249	90°	7.36	23.9897	31.3497	119.6802	-88.3306	AVG
0.0249	90°	8.23	23.9897	32.2197	139.6802	-107.4606	PEAK
0.0431	90°	5.39	22.8370	28.2270	114.9147	-86.6877	AVG
0.0431	90°	6.25	22.8370	29.0870	134.9147	-105.8277	PEAK
0.0574	90°	1.66	22.2520	23.9120	112.4260	-88.5140	AVG
0.0574	90°	2.29	22.2520	24.5420	132.4260	-107.8840	PEAK
0.6233	90°	22.08	20.1946	42.2746	71.7103	-29.4357	QP
2.0538	90°	24.35	19.4677	43.8177	69.5400	-25.7223	QP

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

Test Mode:	UNII-1/TX A Mode 5180MHz
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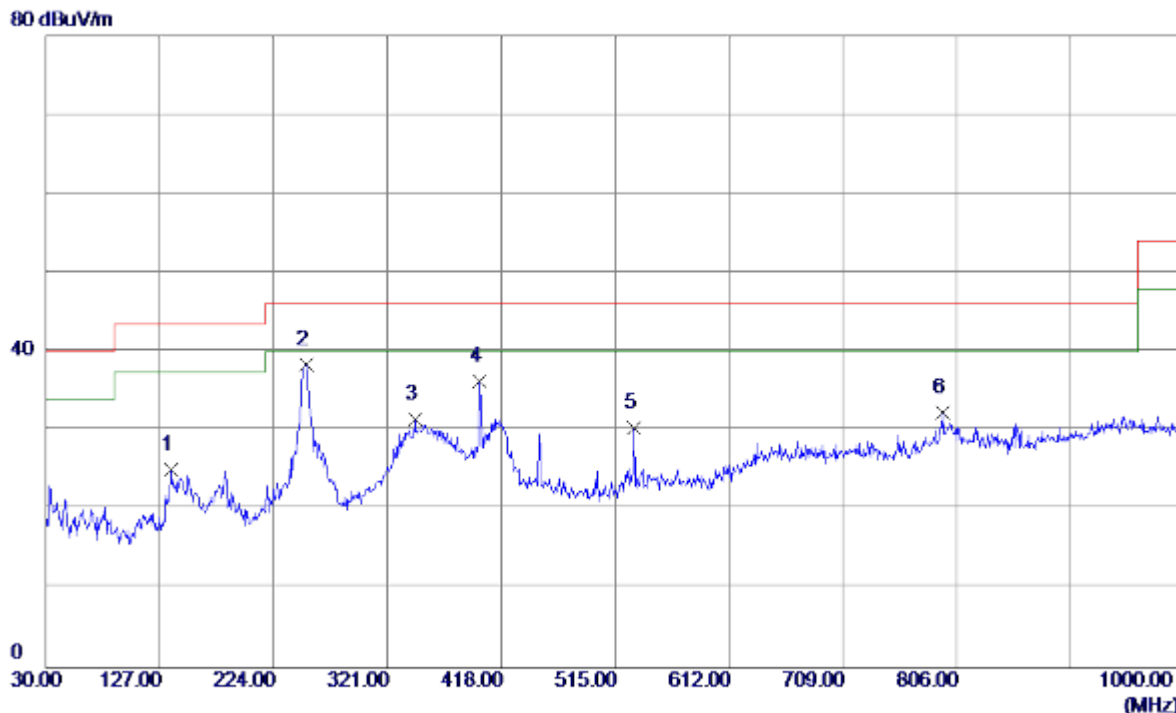
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	48.29	-13.89	34.40	40.00	-5.60	Peak	
2	189.0800	41.00	-12.85	28.15	43.50	-15.35	Peak	
3	251.1600	48.82	-12.67	36.15	46.00	-9.85	Peak	
4	450.9800	35.78	-5.92	29.86	46.00	-16.14	Peak	
5	526.6400	37.64	-5.91	31.73	46.00	-14.27	Peak	
6	600.3600	36.51	-4.62	31.89	46.00	-14.11	Peak	

Test Mode: UNII-1/TX A Mode 5180MHz

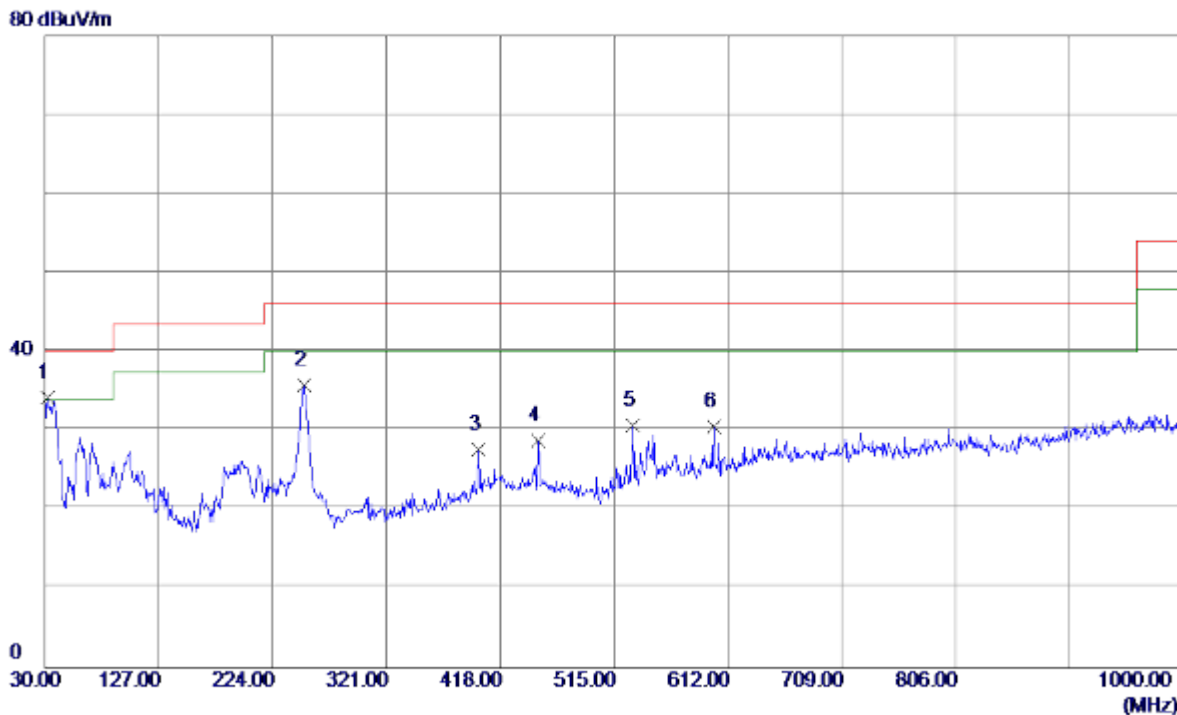
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	136.7000	36.72	-11.54	25.18	43.50	-18.32	Peak	
2 *	252.1300	51.11	-12.66	38.45	46.00	-7.55	Peak	
3	344.2800	41.44	-9.88	31.56	46.00	-14.44	Peak	
4	399.5700	43.62	-7.29	36.33	46.00	-9.67	Peak	
5	531.4900	36.10	-5.64	30.46	46.00	-15.54	Peak	
6	794.3600	32.33	-0.02	32.31	46.00	-13.69	Peak	

Test Mode: UNII-1/TX A Mode 5200MHz

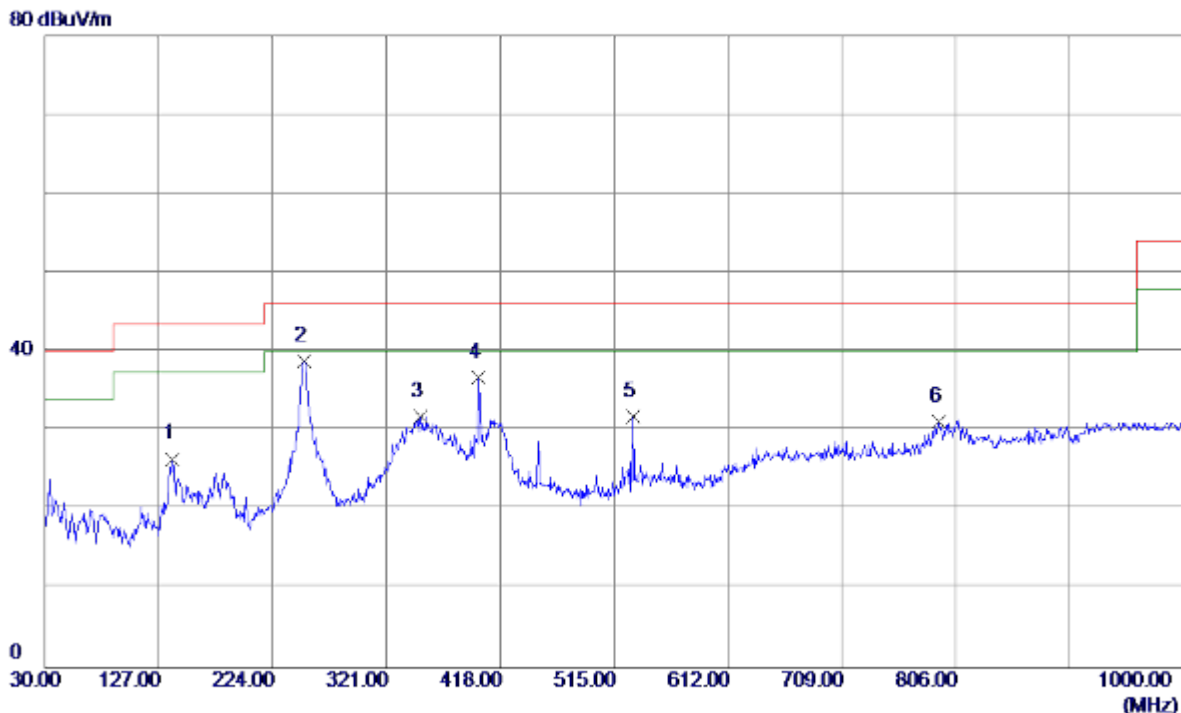
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	48.10	-13.89	34.21	40.00	-5.79	Peak	
2	251.1600	48.54	-12.67	35.87	46.00	-10.13	Peak	
3	399.5700	34.96	-7.29	27.67	46.00	-18.33	Peak	
4	450.0100	34.66	-5.90	28.76	46.00	-17.24	Peak	
5	531.4900	36.32	-5.64	30.68	46.00	-15.32	Peak	
6	600.3600	35.15	-4.62	30.53	46.00	-15.47	Peak	

Test Mode: UNII-1/TX A Mode 5200MHz

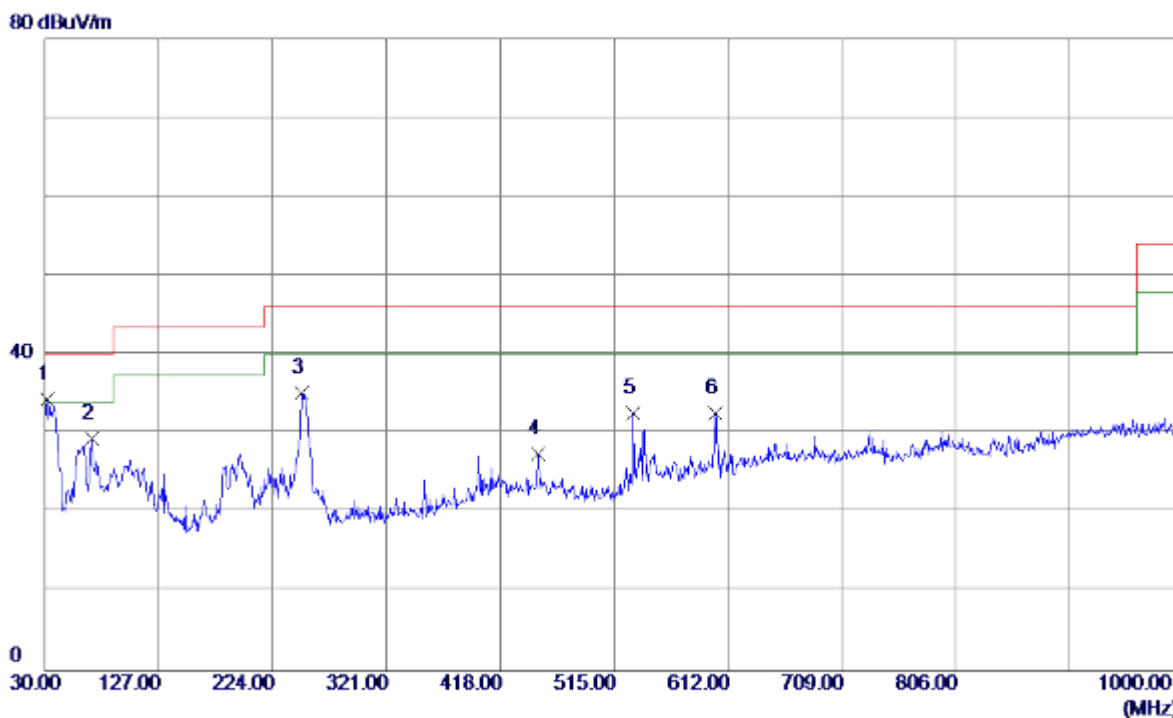
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	138.6400	38.03	-11.55	26.48	43.50	-17.02	Peak	
2 *	251.1600	51.59	-12.67	38.92	46.00	-7.08	Peak	
3	350.1000	41.71	-9.92	31.79	46.00	-14.21	Peak	
4	399.5700	44.04	-7.29	36.75	46.00	-9.25	Peak	
5	531.4900	37.49	-5.64	31.85	46.00	-14.15	Peak	
6	792.4200	31.31	-0.08	31.23	46.00	-14.77	Peak	

Test Mode: UNII-1/TX A Mode 5240MHz

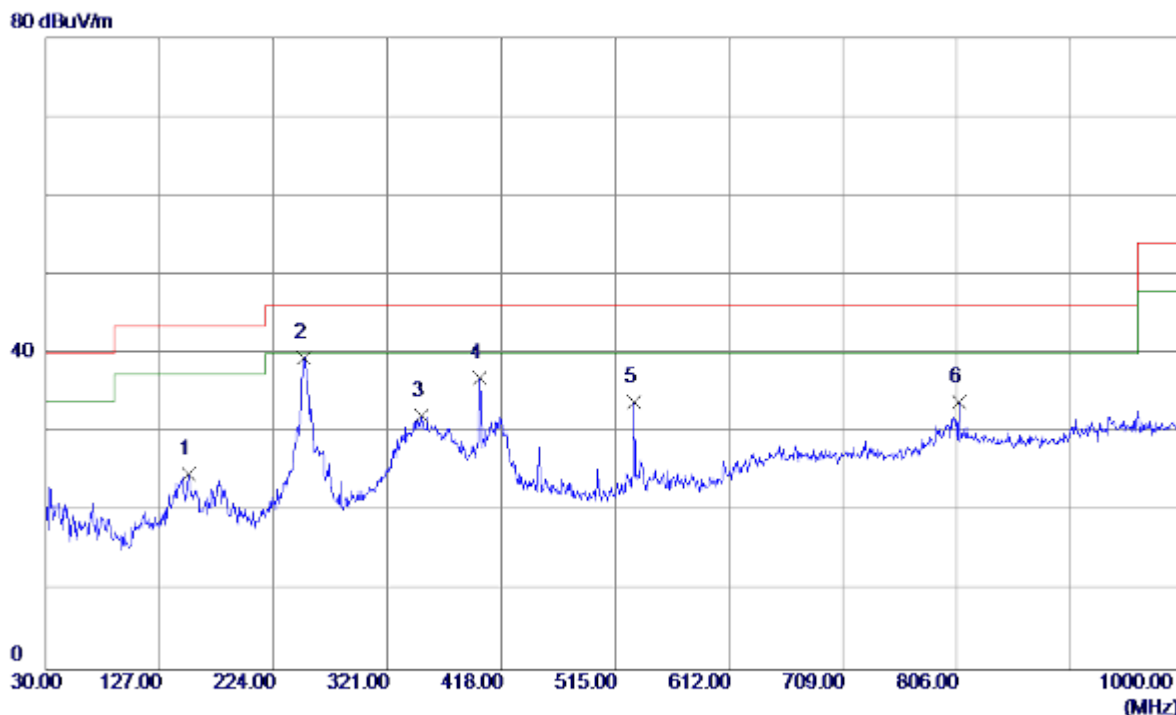
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	48.31	-13.89	34.42	40.00	-5.58	Peak	
2	69.7699	44.17	-14.76	29.41	40.00	-10.59	Peak	
3	249.2200	47.81	-12.65	35.16	46.00	-10.84	Peak	
4	450.0100	33.39	-5.90	27.49	46.00	-18.51	Peak	
5	531.4900	38.24	-5.64	32.60	46.00	-13.40	Peak	
6	601.3300	37.24	-4.56	32.68	46.00	-13.32	Peak	

Test Mode: UNII-1/TX A Mode 5240MHz

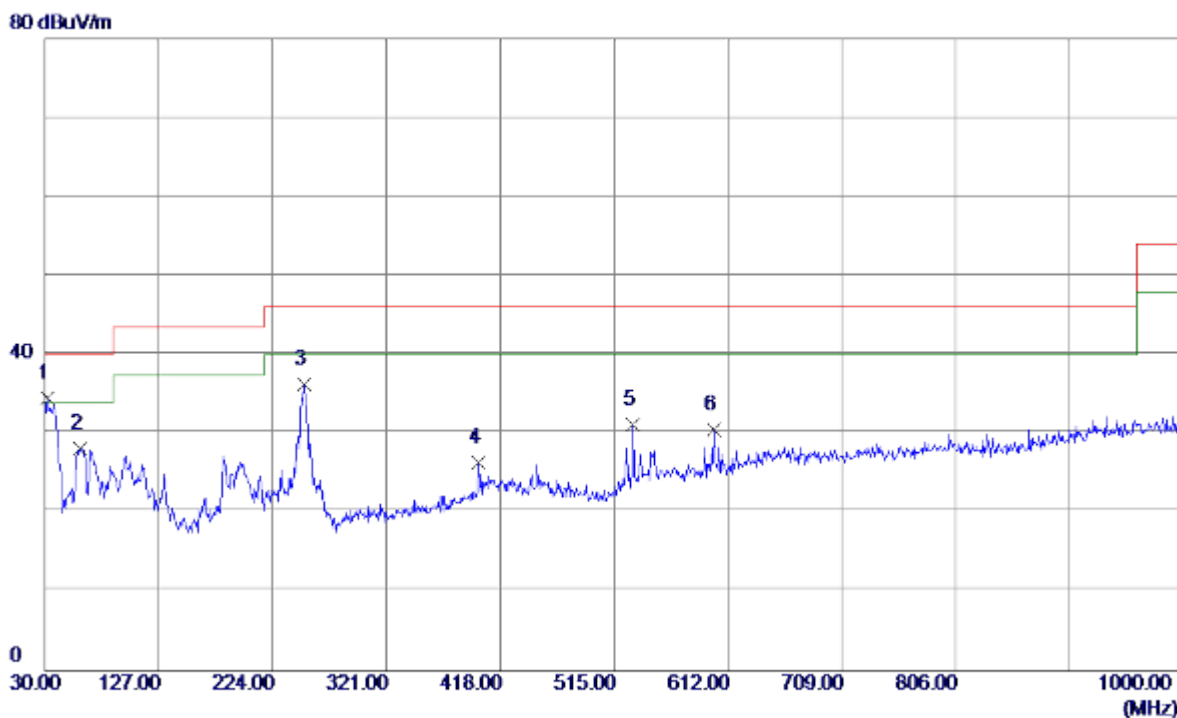
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	152.2200	36.57	-11.75	24.82	43.50	-18.68	Peak	
2 *	250.1900	52.26	-12.67	39.59	46.00	-6.41	Peak	
3	350.1000	42.06	-9.92	32.14	46.00	-13.86	Peak	
4	399.5700	44.28	-7.29	36.99	46.00	-9.01	Peak	
5	531.4900	39.59	-5.64	33.95	46.00	-12.05	Peak	
6	807.9400	33.70	0.15	33.85	46.00	-12.15	Peak	

Test Mode: UNII-3/TX A Mode 5745MHz

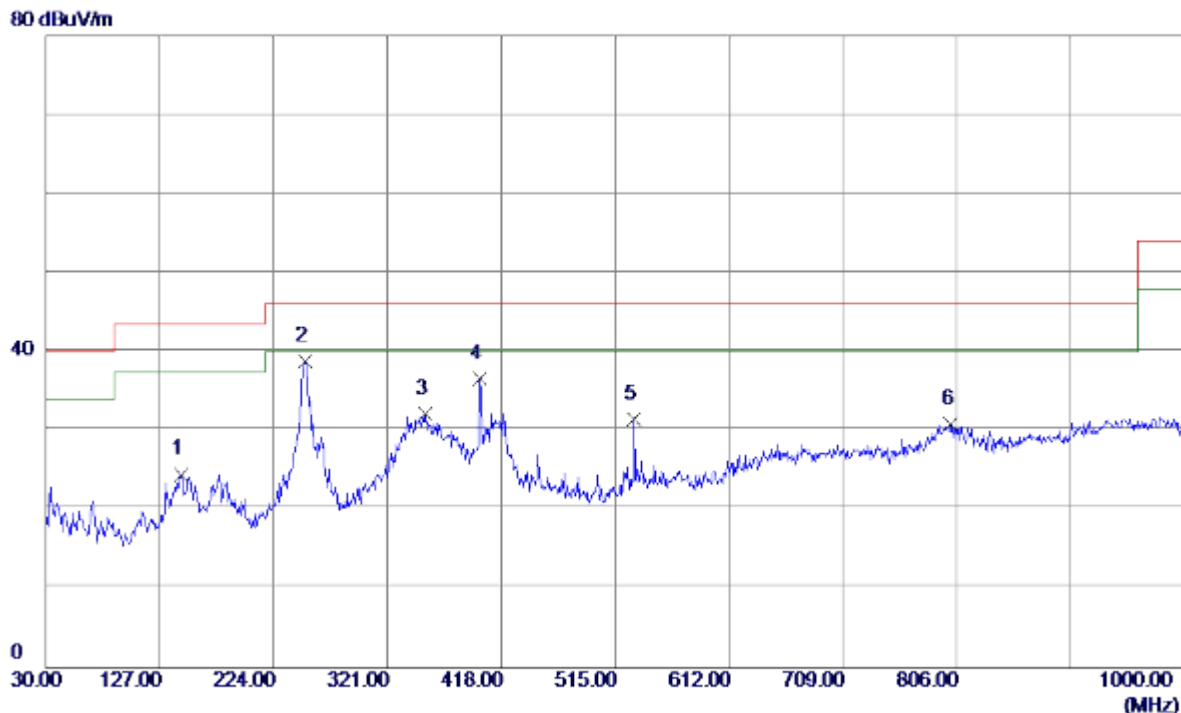
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	48.49	-13.89	34.60	40.00	-5.40	Peak	
2	60.0700	41.80	-13.68	28.12	40.00	-11.88	Peak	
3	251.1600	49.06	-12.67	36.39	46.00	-9.61	Peak	
4	399.5700	33.69	-7.29	26.40	46.00	-19.60	Peak	
5	531.4900	36.82	-5.64	31.18	46.00	-14.82	Peak	
6	600.3600	35.20	-4.62	30.58	46.00	-15.42	Peak	

Test Mode: UNII-3/TX A Mode 5745MHz

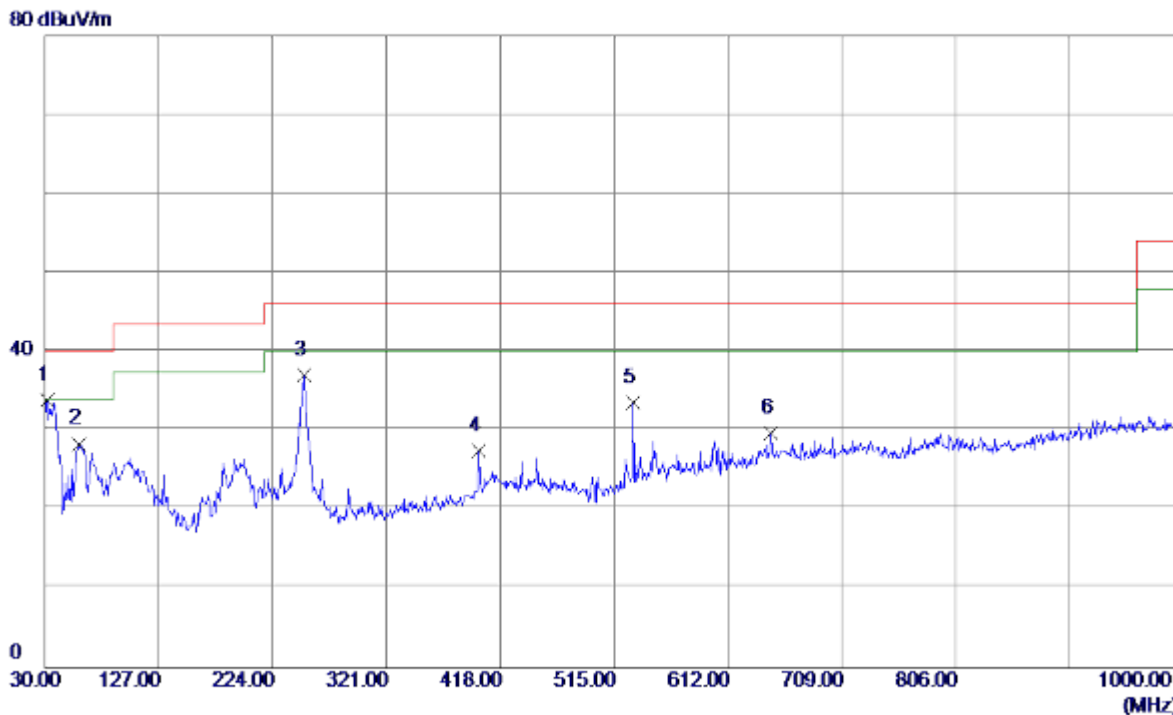
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	145.4299	36.14	-11.58	24.56	43.50	-18.94	Peak	
2 *	251.1600	51.52	-12.67	38.85	46.00	-7.15	Peak	
3	353.0100	41.93	-9.76	32.17	46.00	-13.83	Peak	
4	399.5700	43.94	-7.29	36.65	46.00	-9.35	Peak	
5	531.4900	37.11	-5.64	31.47	46.00	-14.53	Peak	
6	801.1500	30.69	0.16	30.85	46.00	-15.15	Peak	

Test Mode: UNII-3/TX A Mode 5785MHz

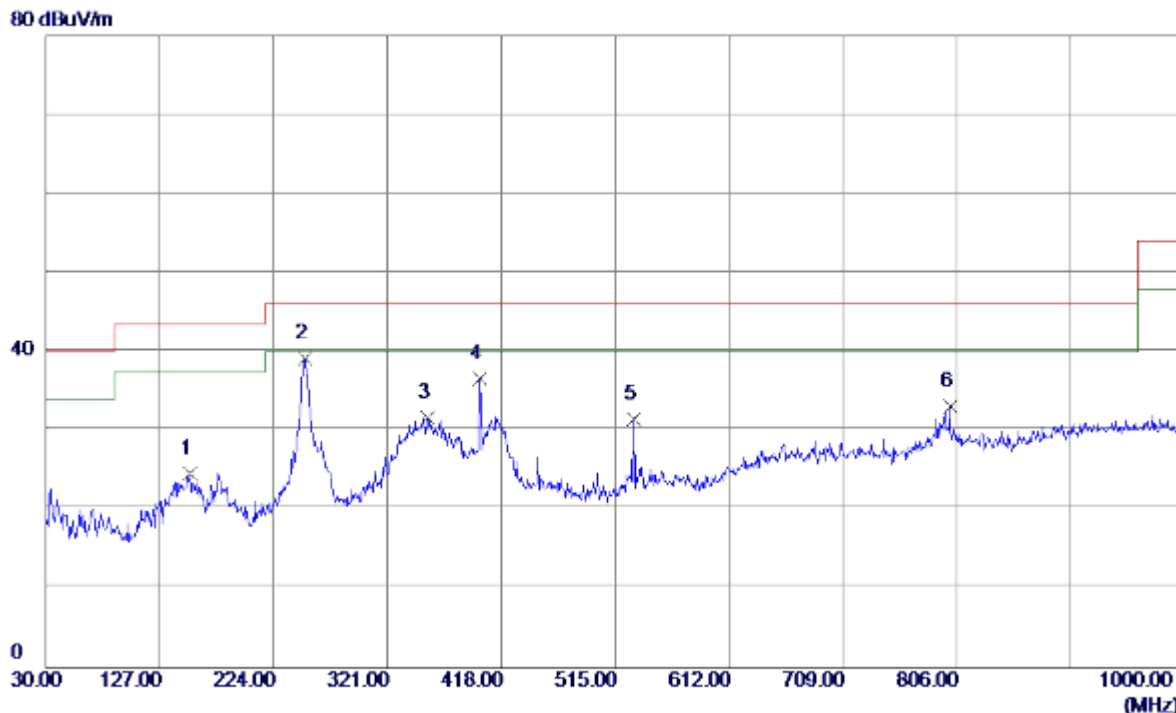
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	47.88	-13.89	33.99	40.00	-6.01	Peak	
2	59.1000	41.82	-13.42	28.40	40.00	-11.60	Peak	
3	251.1600	49.79	-12.67	37.12	46.00	-8.88	Peak	
4	399.5700	34.83	-7.29	27.54	46.00	-18.46	Peak	
5	531.4900	39.17	-5.64	33.53	46.00	-12.47	Peak	
6	648.8600	31.40	-1.71	29.69	46.00	-16.31	Peak	

Test Mode: UNII-3/TX A Mode 5785MHz

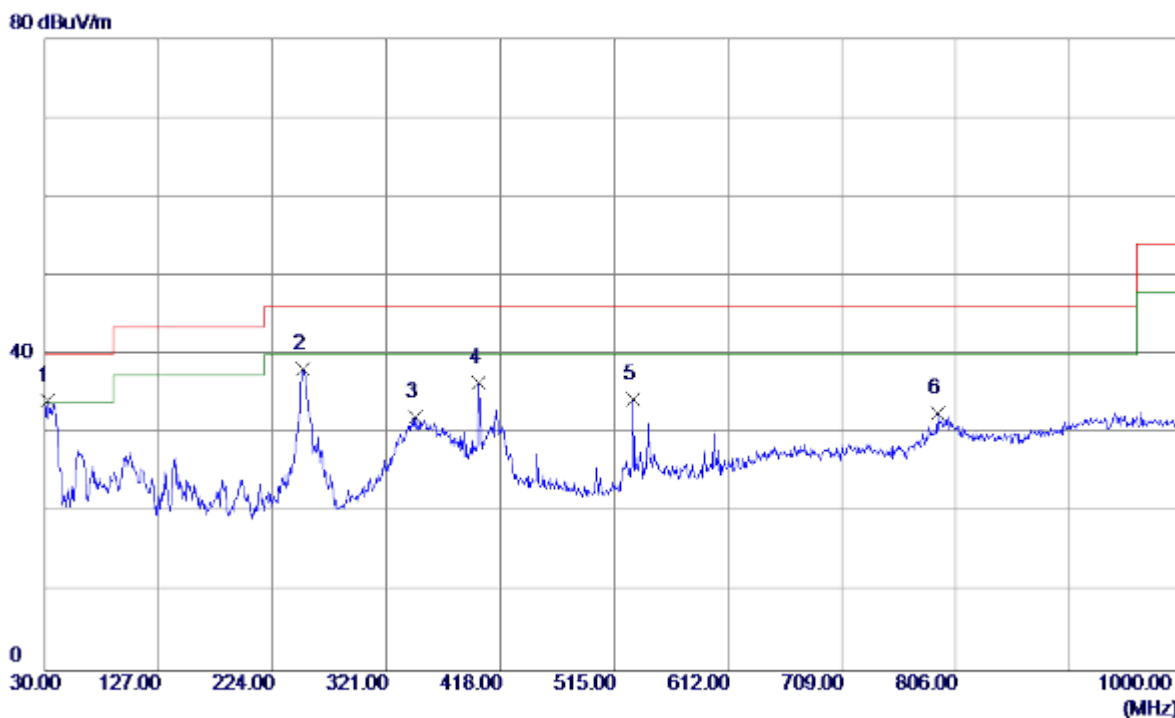
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	153.1900	36.49	-11.81	24.68	43.50	-18.82	Peak	
2 *	251.1600	51.94	-12.67	39.27	46.00	-6.73	Peak	
3	355.9200	41.24	-9.61	31.63	46.00	-14.37	Peak	
4	399.5700	43.97	-7.29	36.68	46.00	-9.32	Peak	
5	531.4900	37.13	-5.64	31.49	46.00	-14.51	Peak	
6	800.1800	32.97	0.16	33.13	46.00	-12.87	Peak	

Test Mode: UNII-3/TX A Mode 5825MHz

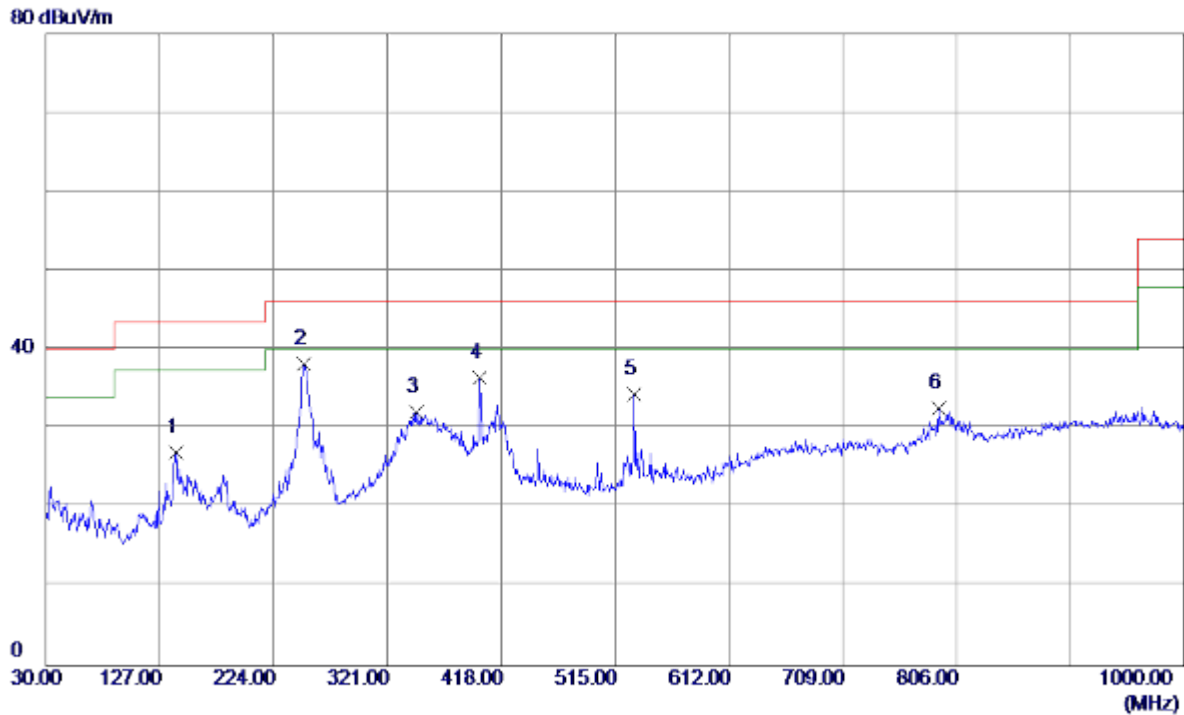
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	31.9400	48.13	-13.89	34.24	40.00	-5.76	Peak	
2	250.1900	50.92	-12.67	38.25	46.00	-7.75	Peak	
3	346.2200	42.12	-9.90	32.22	46.00	-13.78	Peak	
4	399.5700	43.73	-7.29	36.44	46.00	-9.56	Peak	
5	531.4900	40.06	-5.64	34.42	46.00	-11.58	Peak	
6	790.4800	32.79	-0.14	32.65	46.00	-13.35	Peak	

Test Mode: UNII-3/TX A Mode 5825MHz

Horizontal



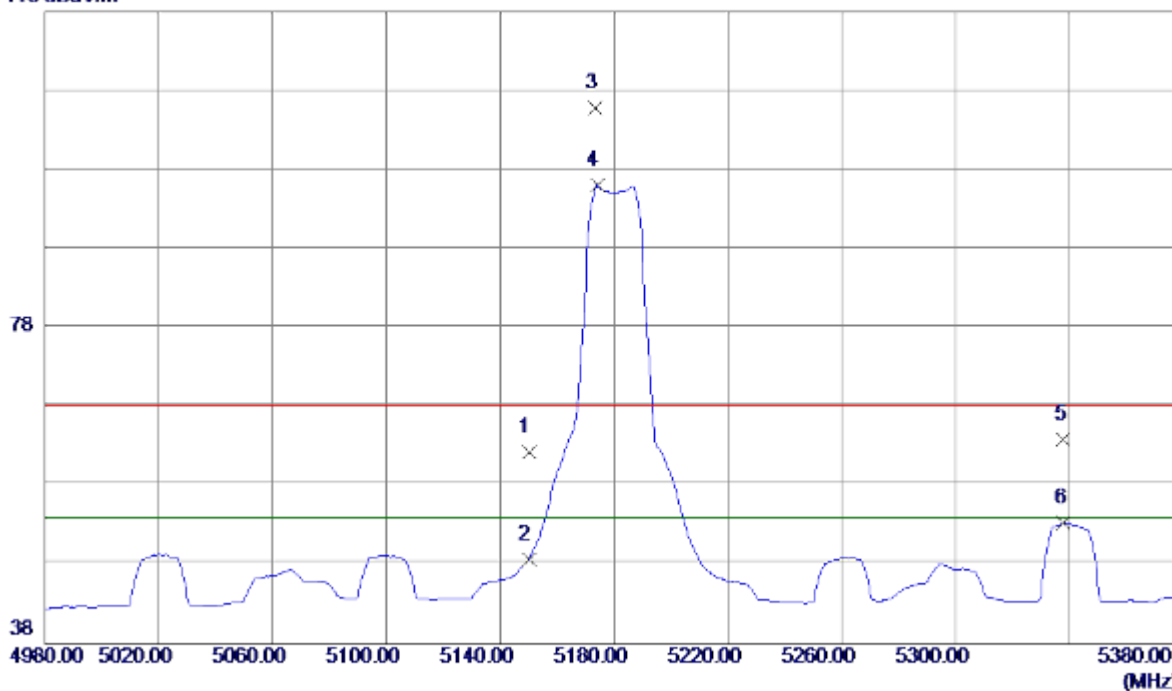
No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	140.5800	38.53	-11.56	26.97	43.50	-16.53	Peak	
2 *	250.1900	50.92	-12.67	38.25	46.00	-7.75	Peak	
3	346.2200	42.12	-9.90	32.22	46.00	-13.78	Peak	
4	399.5700	43.73	-7.29	36.44	46.00	-9.56	Peak	
5	531.4900	40.06	-5.64	34.42	46.00	-11.58	Peak	
6	790.4800	32.79	-0.14	32.65	46.00	-13.35	Peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

Vertical

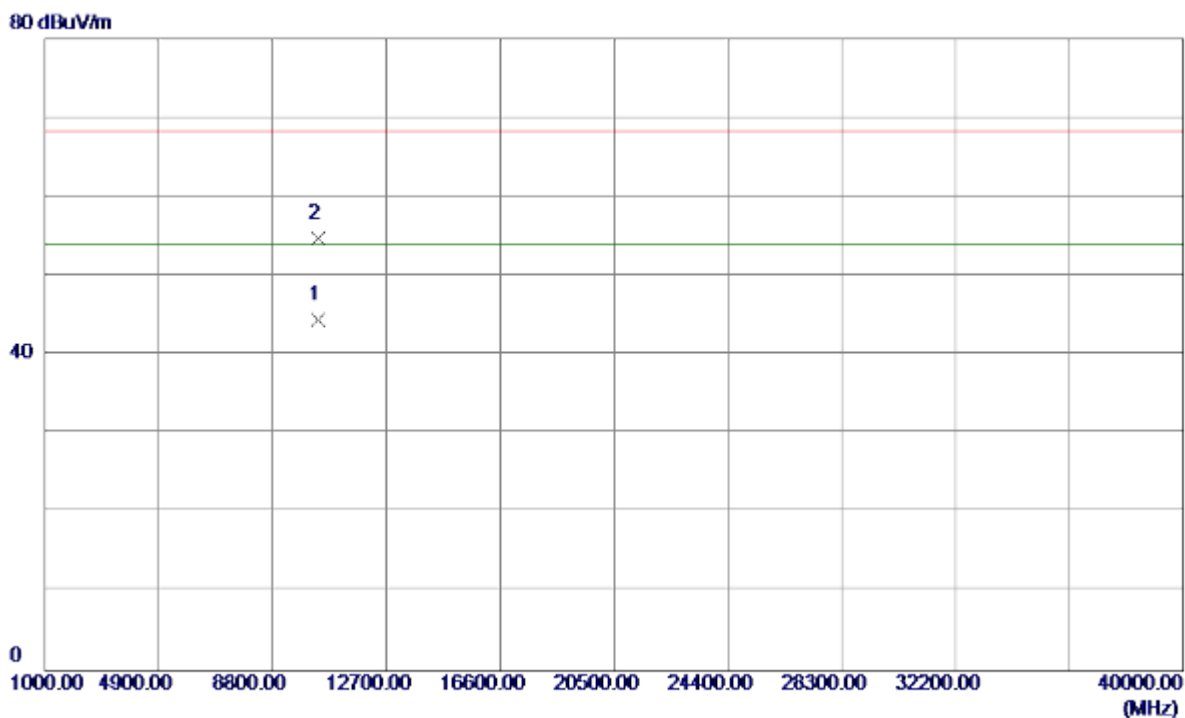
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	22.10	40.22	62.32	68.30	-5.98	Peak	
2	5150.0000	8.53	40.22	48.75	54.00	-5.25	AVG	
3	5173.2000	65.62	40.27	105.89	68.30	37.59	Peak	No Limit
4 *	5174.0000	55.76	40.27	96.03	54.00	42.03	AVG	No Limit
5	5338.0000	23.25	40.62	63.87	68.30	-4.43	Peak	
6	5338.0000	12.72	40.62	53.34	54.00	-0.66	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

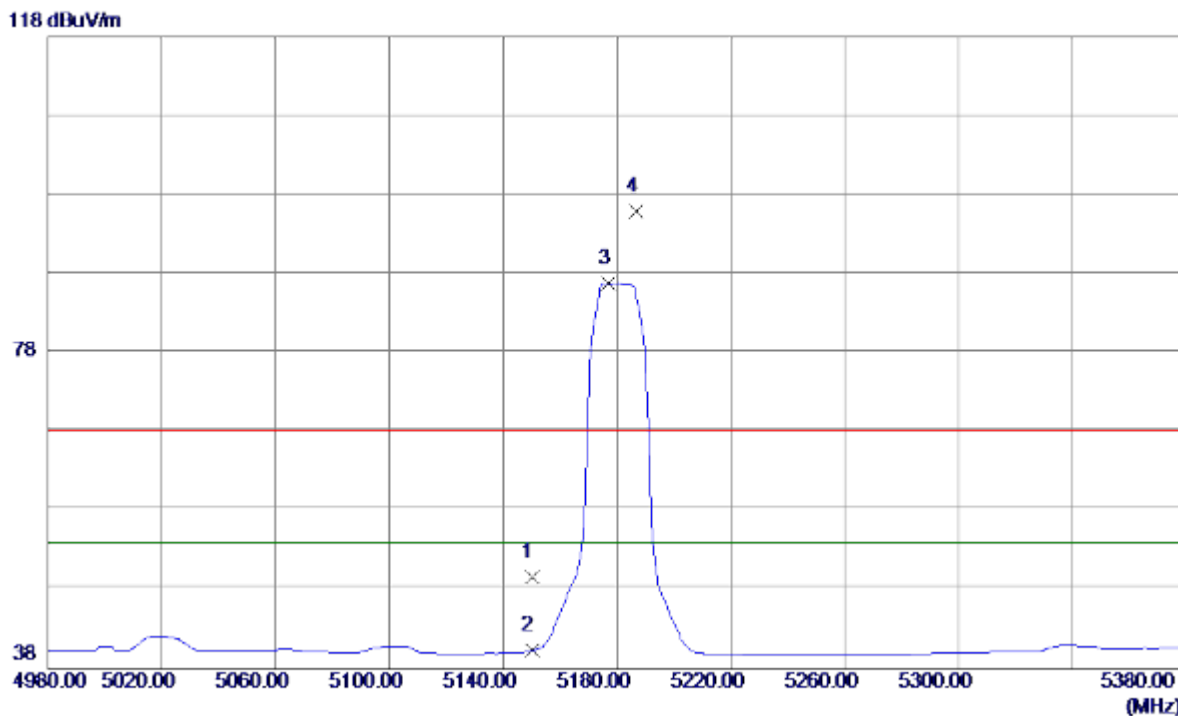
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.1200	30.66	13.86	44.52	54.00	-9.48	AVG	
2	10360.0400	40.92	13.86	54.78	68.30	-13.52	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

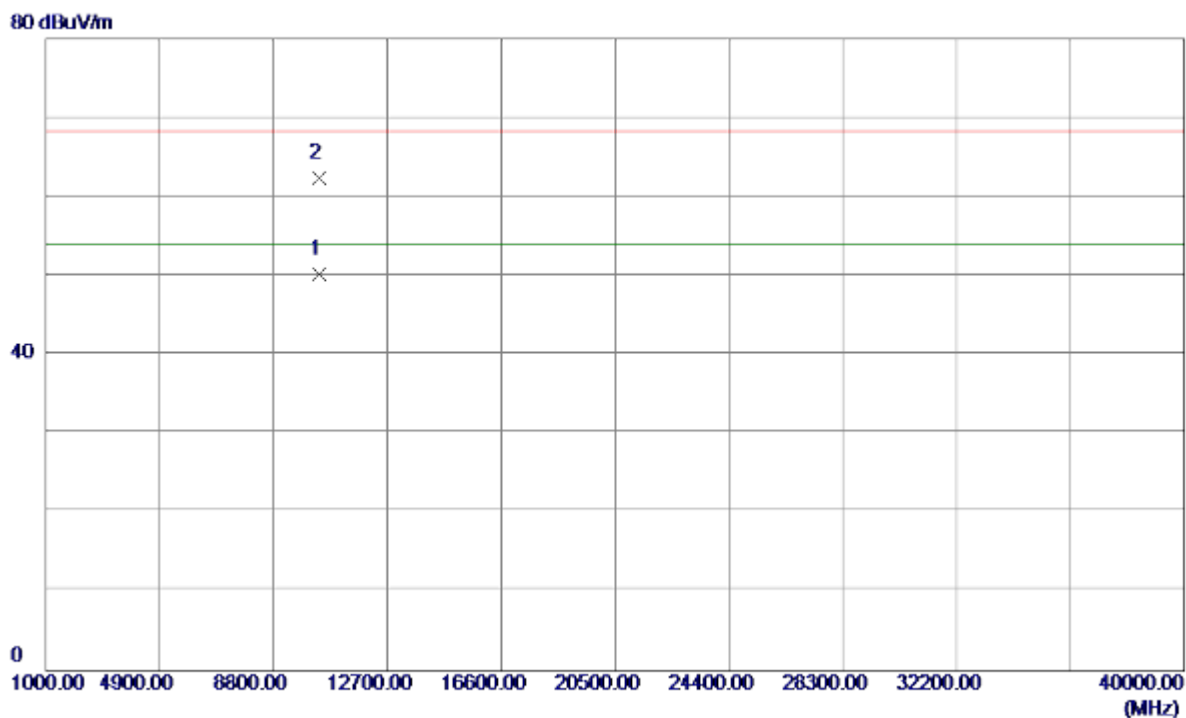
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	9.47	40.22	49.69	68.30	-18.61	Peak	
2	5150.0000	0.11	40.22	40.33	54.00	-13.67	AVG	
3 *	5176.8000	46.59	40.27	86.86	54.00	32.86	AVG	No Limit
4	5186.8000	55.59	40.30	95.89	68.30	27.59	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

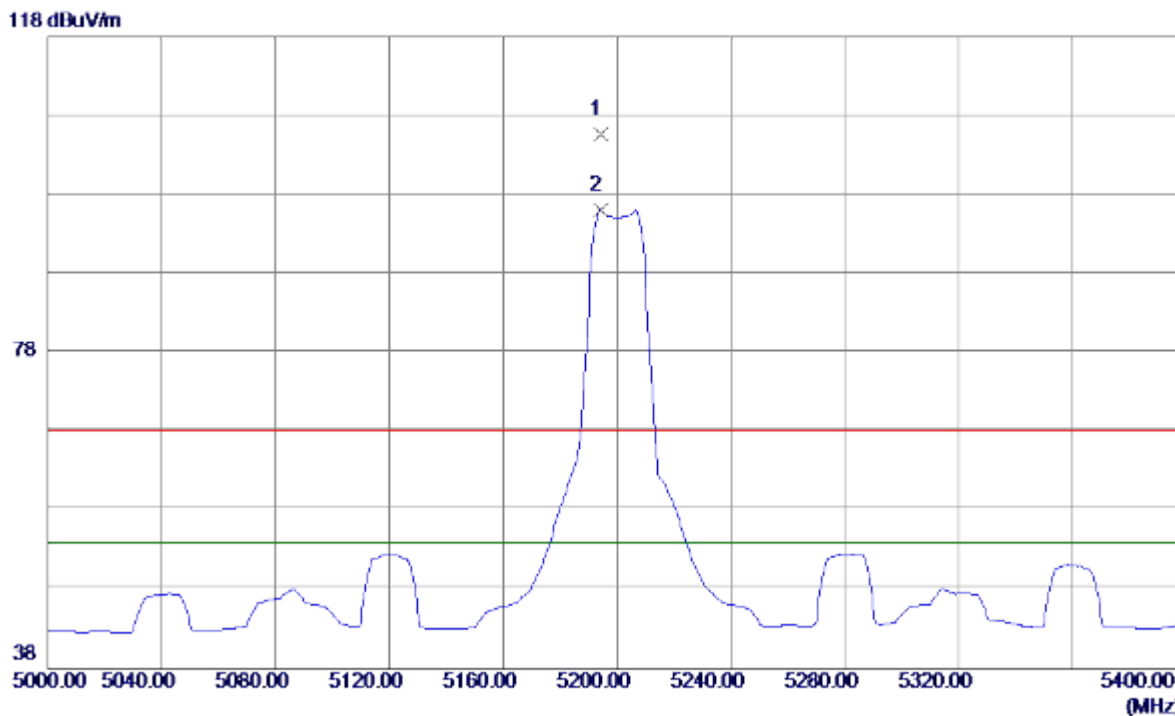
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10361.9800	36.41	13.85	50.26	54.00	-3.74	AVG	
2	10362.1900	48.57	13.85	62.42	68.30	-5.88	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

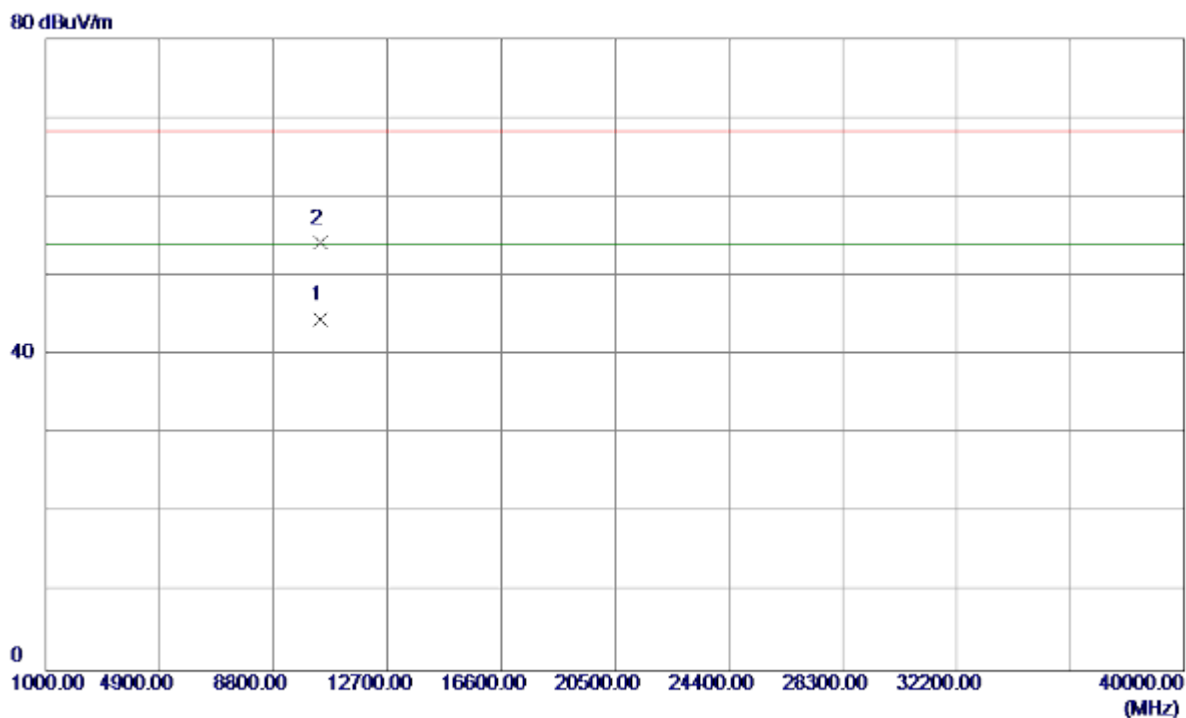
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5194.0000	65.43	40.31	105.74	68.30	37.44	Peak	No Limit
2 *	5194.0000	55.82	40.31	96.13	54.00	42.13	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

Vertical

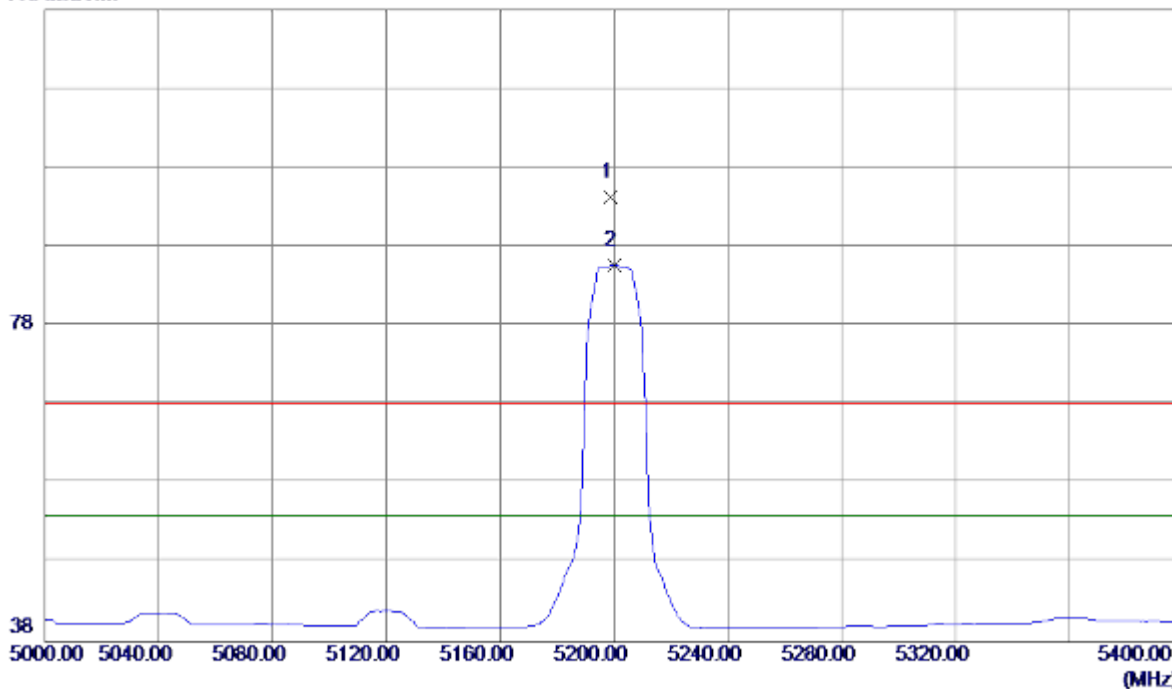


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.1000	30.62	13.80	44.42	54.00	-9.58	AVG	
2	10400.2000	40.36	13.80	54.16	68.30	-14.14	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

Horizontal

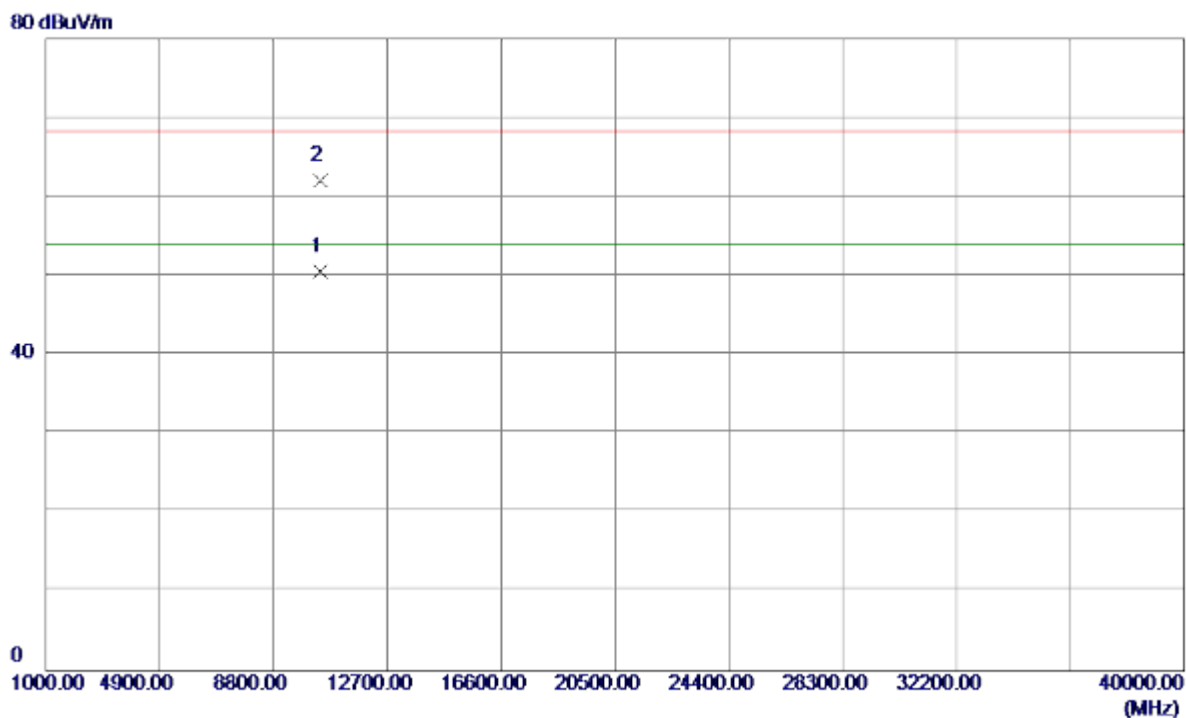
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5198.8000	54.03	40.32	94.35	68.30	26.05	Peak	No Limit
2 *	5200.0000	45.37	40.32	85.69	54.00	31.69	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

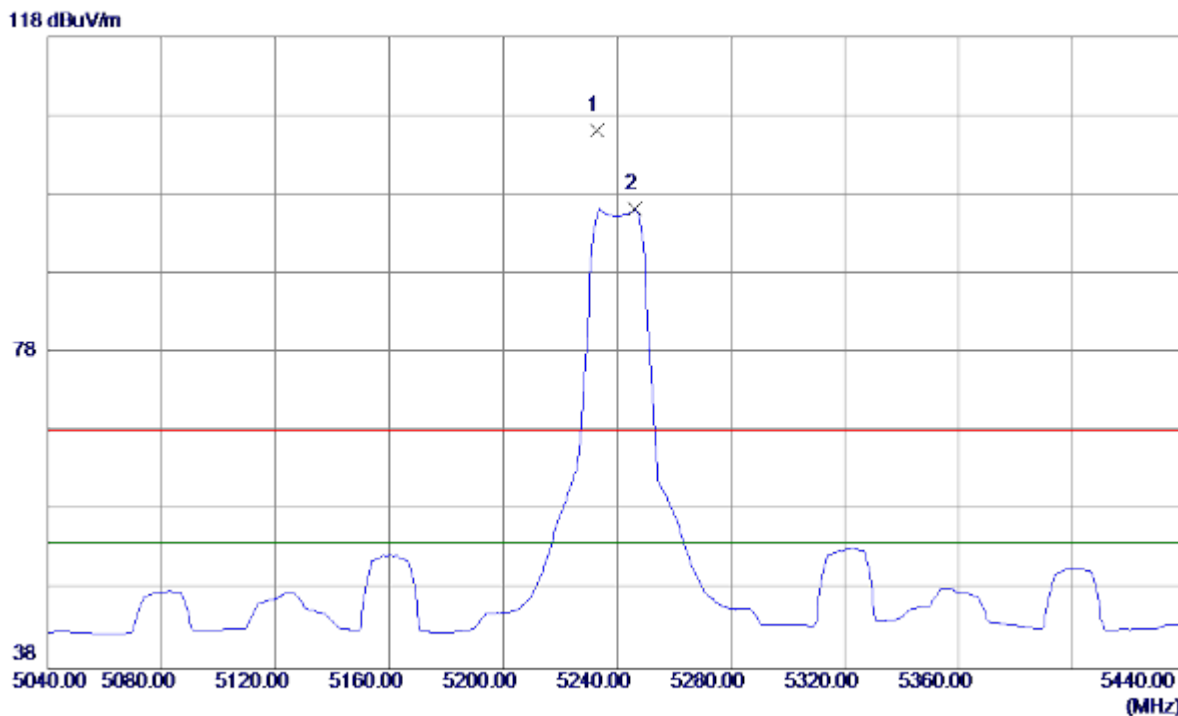
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10399.9700	36.70	13.80	50.50	54.00	-3.50	AVG	
2	10399.6100	48.34	13.80	62.14	68.30	-6.16	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

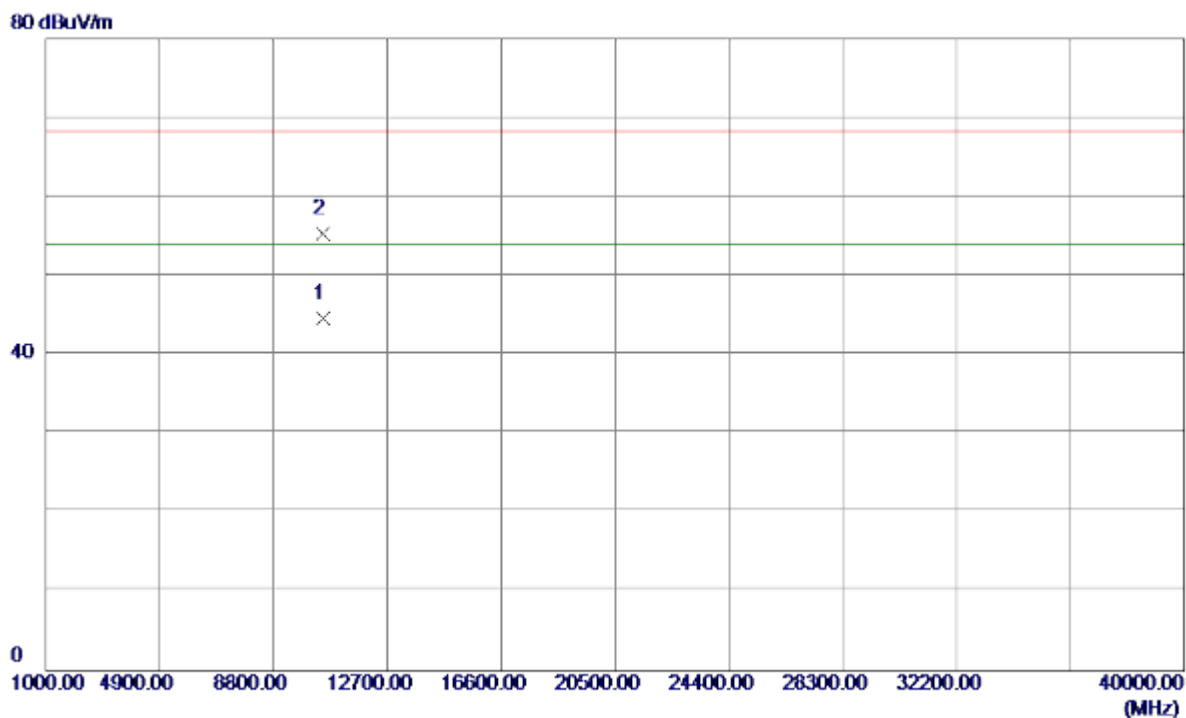
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5232.8000	65.76	40.39	106.15	68.30	37.85	Peak	No Limit
2 *	5246.4000	55.82	40.42	96.24	54.00	42.24	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

Vertical

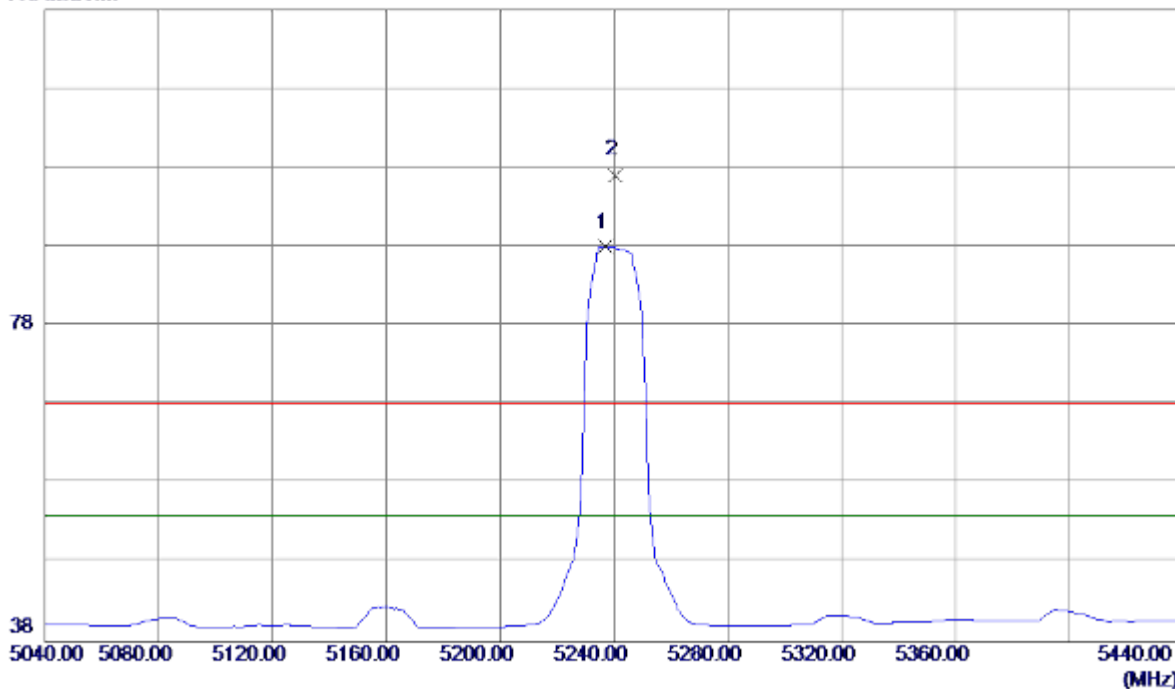


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10480.1000	30.95	13.69	44.64	54.00	-9.36	AVG	
2	10480.5900	41.73	13.69	55.42	68.30	-12.88	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

Horizontal

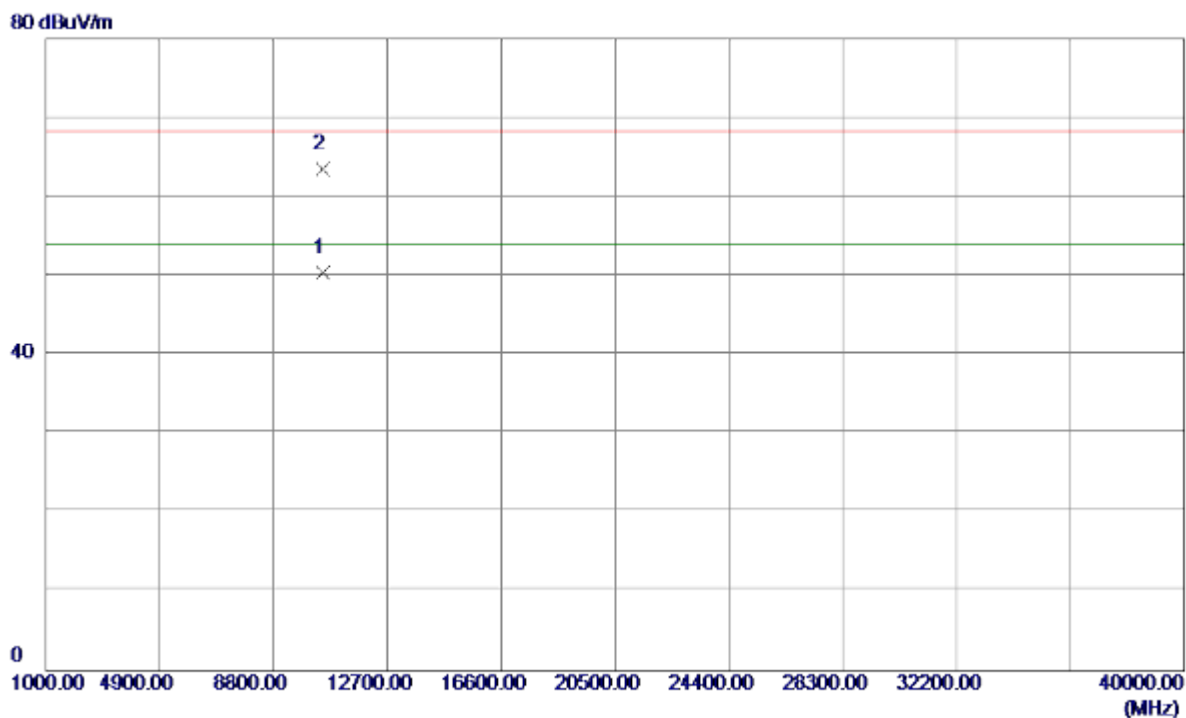
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5236.8000	47.60	40.40	88.00	54.00	34.00	AVG	No Limit
2	5240.4000	56.71	40.41	97.12	68.30	28.82	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

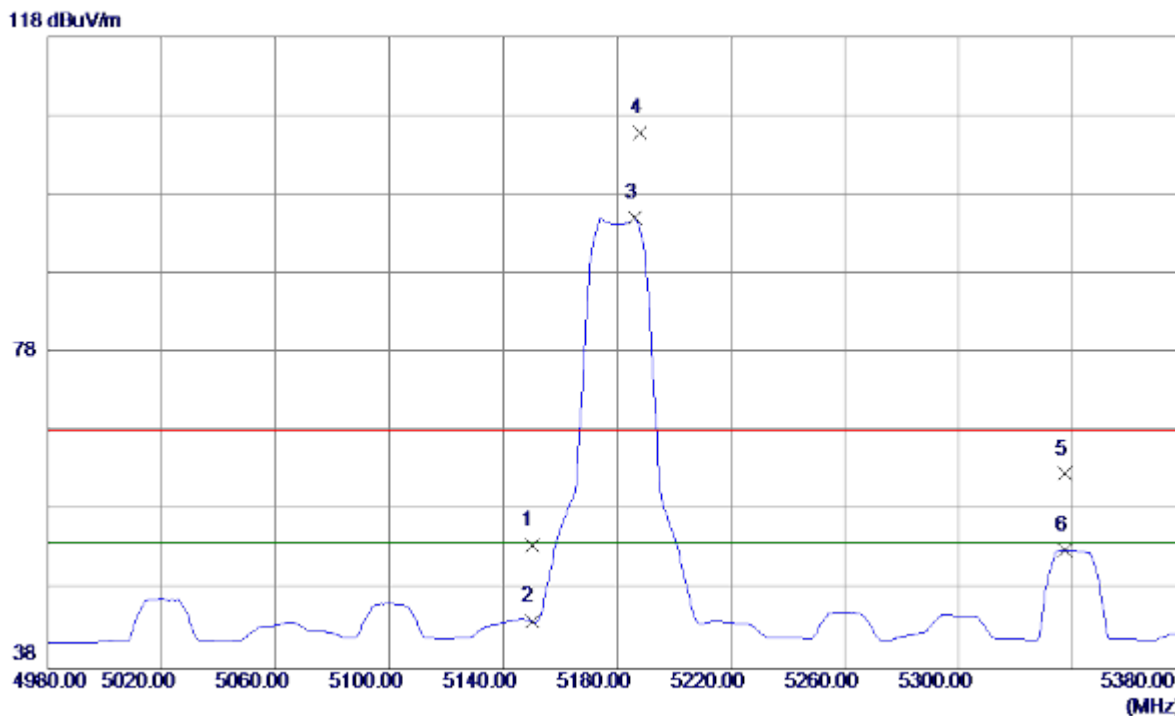
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10479.9700	36.76	13.69	50.45	54.00	-3.55	AVG	
2	10480.6600	49.84	13.69	63.53	68.30	-4.77	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

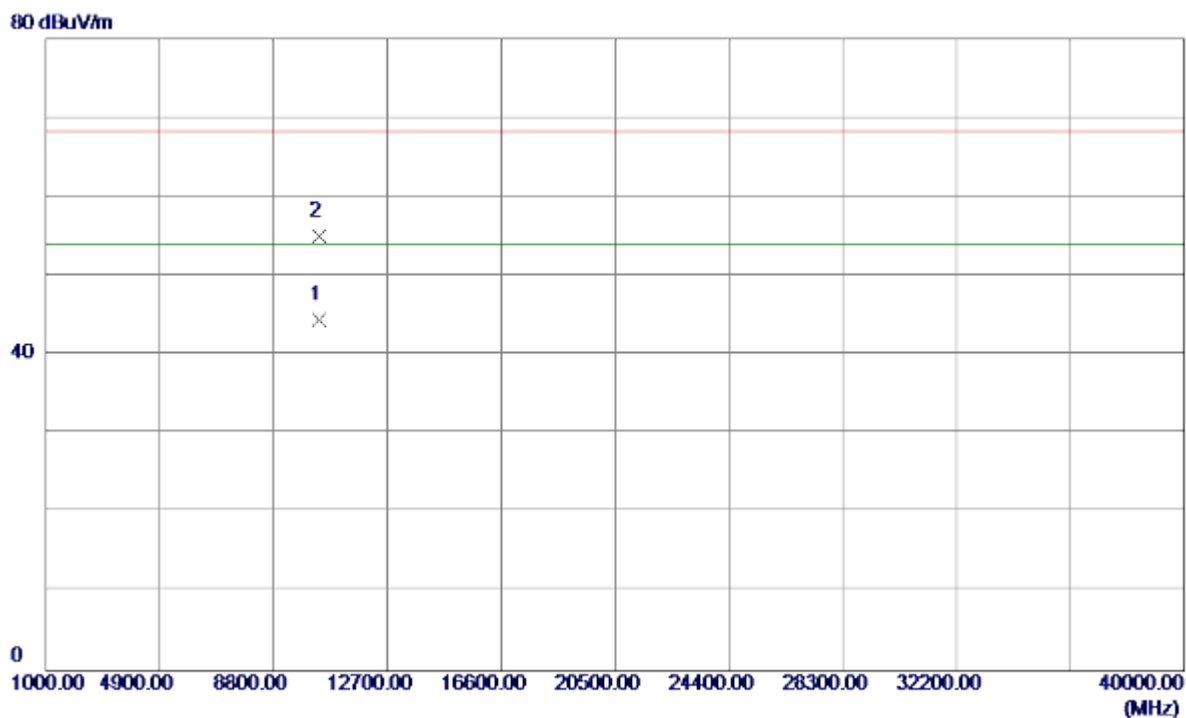
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	13.39	40.22	53.61	68.30	-14.69	Peak	
2	5150.0000	3.80	40.22	44.02	54.00	-9.98	AVG	
3 *	5186.4000	54.74	40.30	95.04	54.00	41.04	AVG	No Limit
4	5188.0000	65.57	40.30	105.87	68.30	37.57	Peak	No Limit
5	5337.2000	22.11	40.61	62.72	68.30	-5.58	Peak	
6	5337.2000	12.47	40.61	53.08	54.00	-0.92	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

Vertical

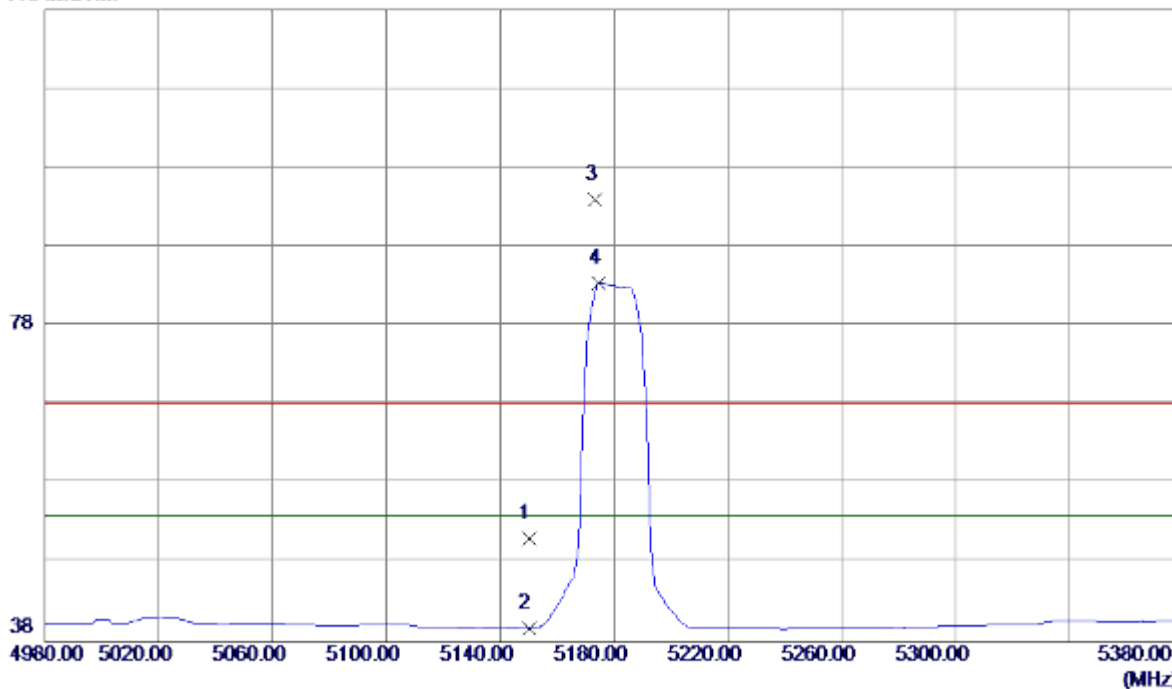


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.1000	30.67	13.86	44.53	54.00	-9.47	AVG	
2	10360.3000	41.25	13.86	55.11	68.30	-13.19	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

Horizontal

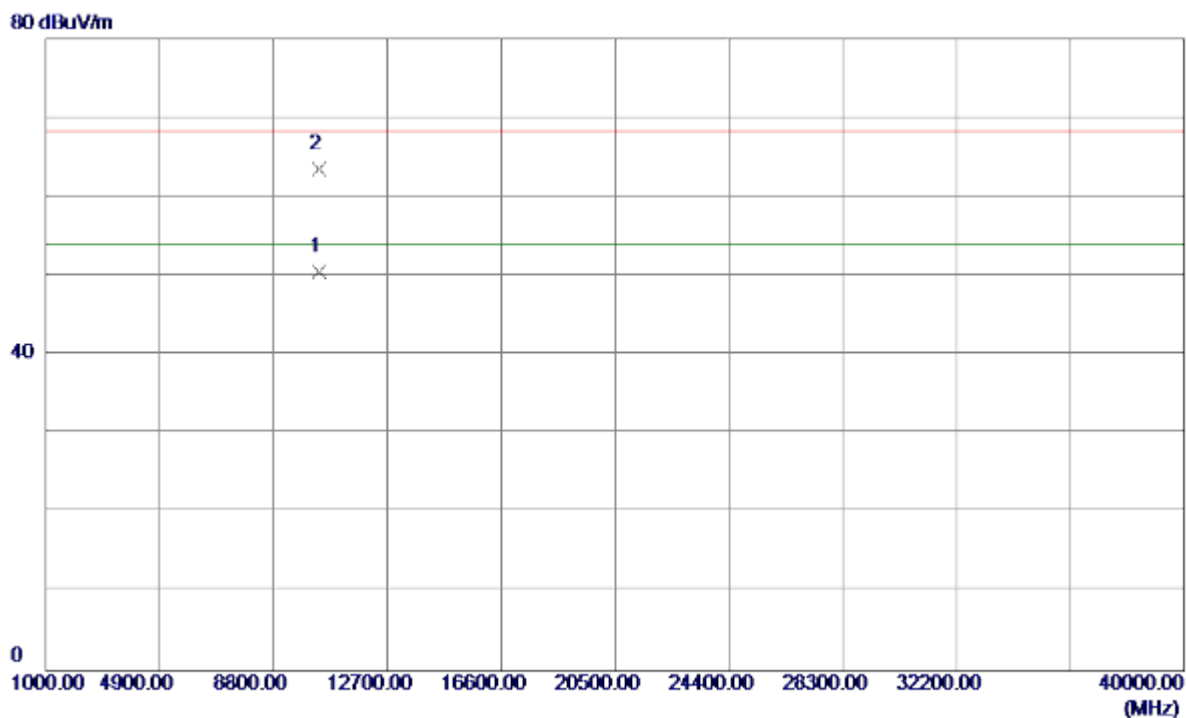
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	10.85	40.22	51.07	68.30	-17.23	Peak	
2	5150.0000	-0.39	40.22	39.83	54.00	-14.17	AVG	
3	5173.2000	53.69	40.27	93.96	68.30	25.66	Peak	No Limit
4 *	5174.8000	43.20	40.27	83.47	54.00	29.47	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

Horizontal

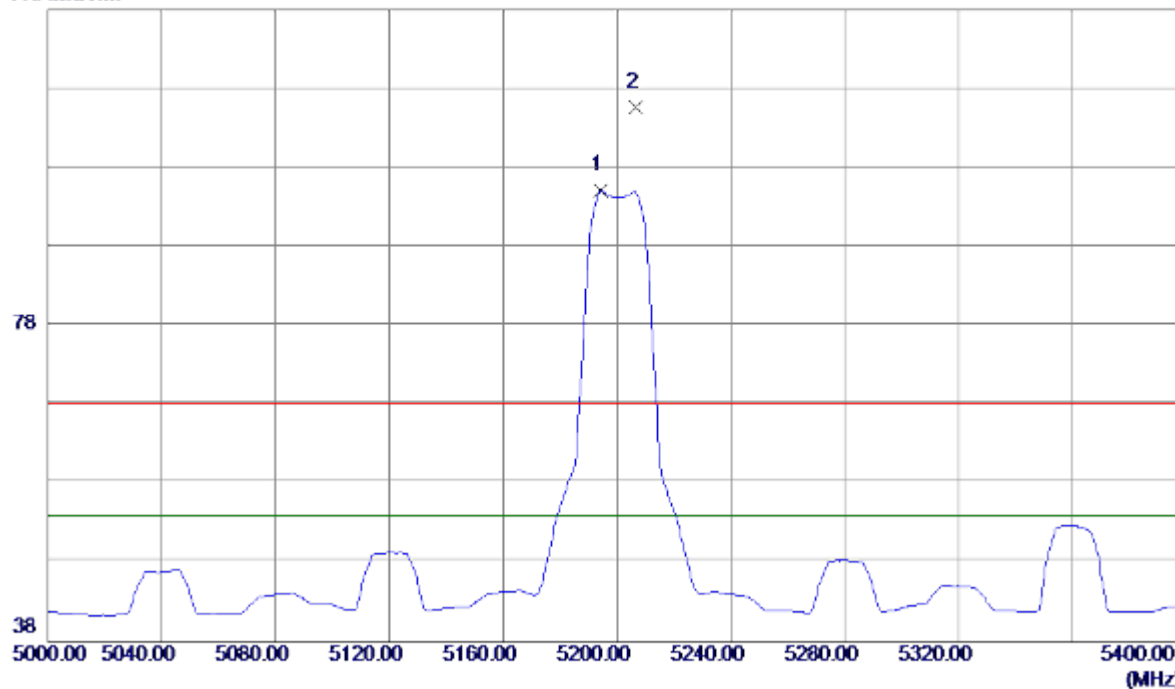


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10361.3500	36.73	13.85	50.58	54.00	-3.42	AVG	
2	10361.2000	49.66	13.86	63.52	68.30	-4.78	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Vertical

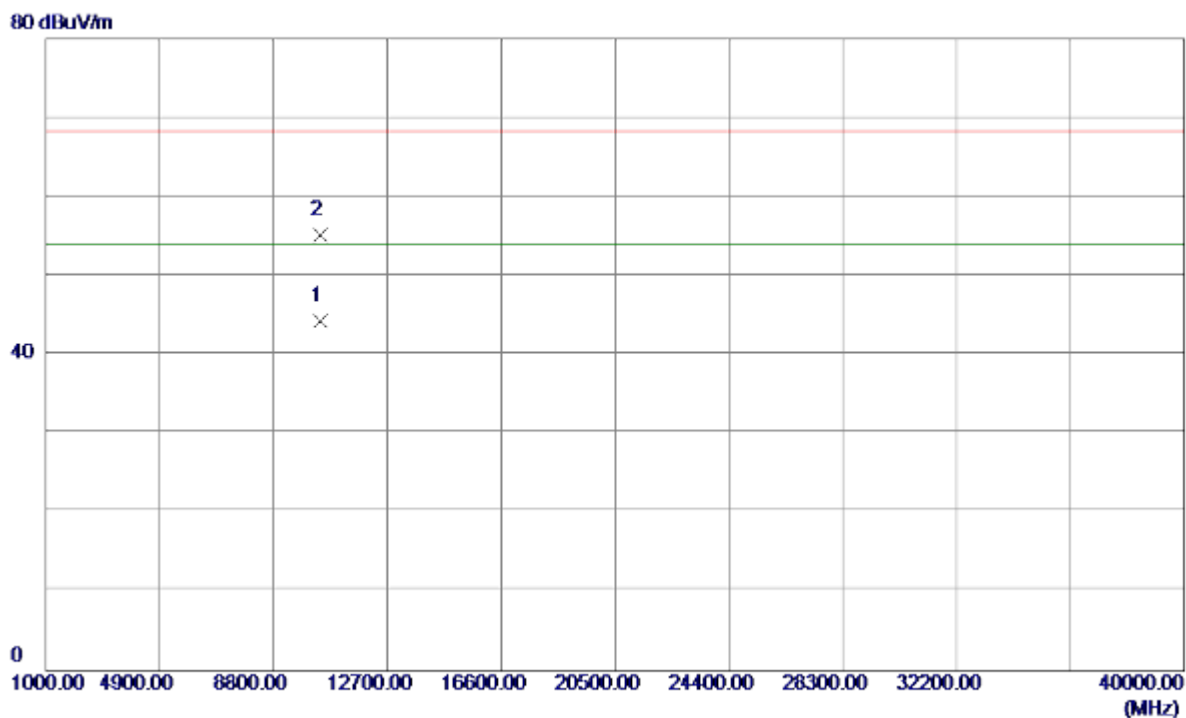
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5194.4000	54.89	40.31	95.20	54.00	41.20	AVG	No Limit
2	5206.8000	65.32	40.34	105.66	68.30	37.36	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

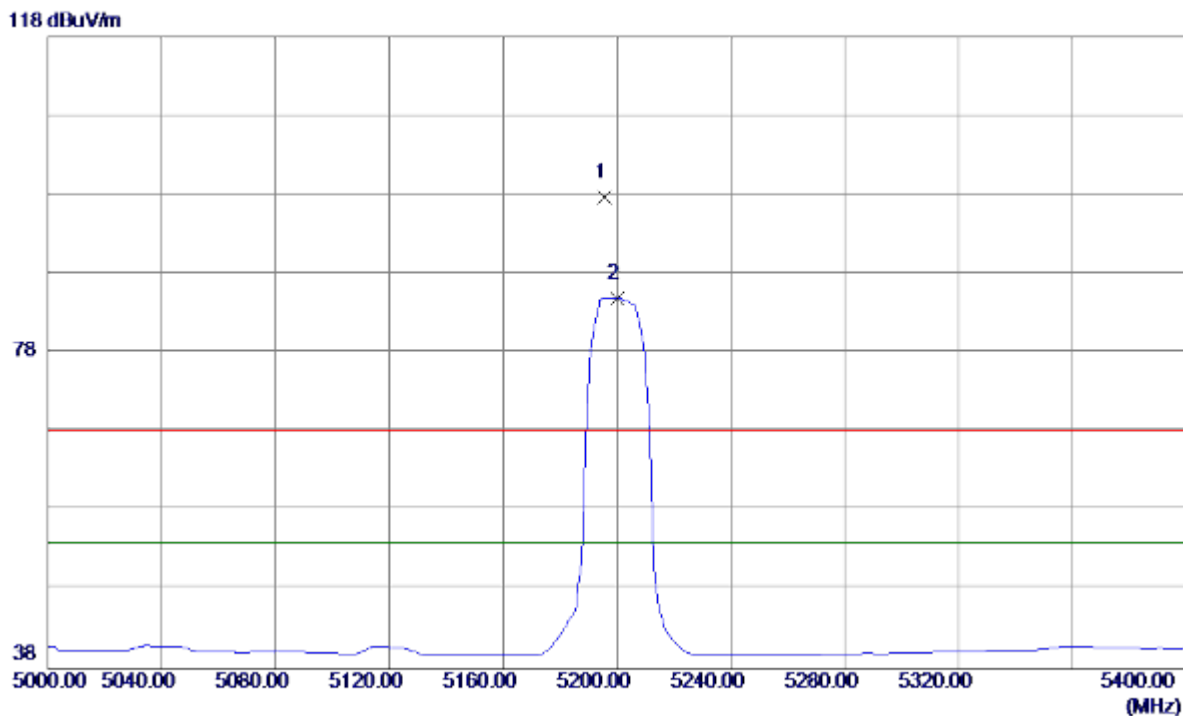
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.1000	30.48	13.80	44.28	54.00	-9.72	AVG	
2	10400.0100	41.34	13.80	55.14	68.30	-13.16	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

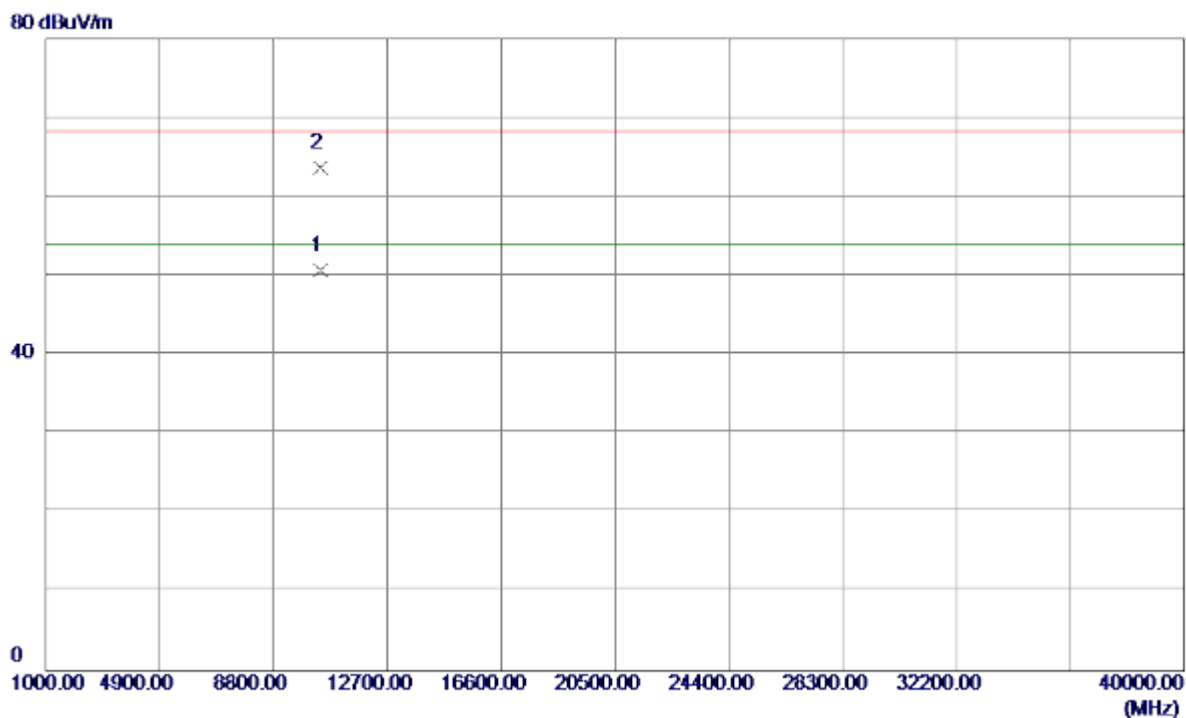
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5195.6500	57.40	40.31	97.71	68.30	29.41	Peak	No Limit
2 *	5200.0000	44.64	40.32	84.96	54.00	30.96	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

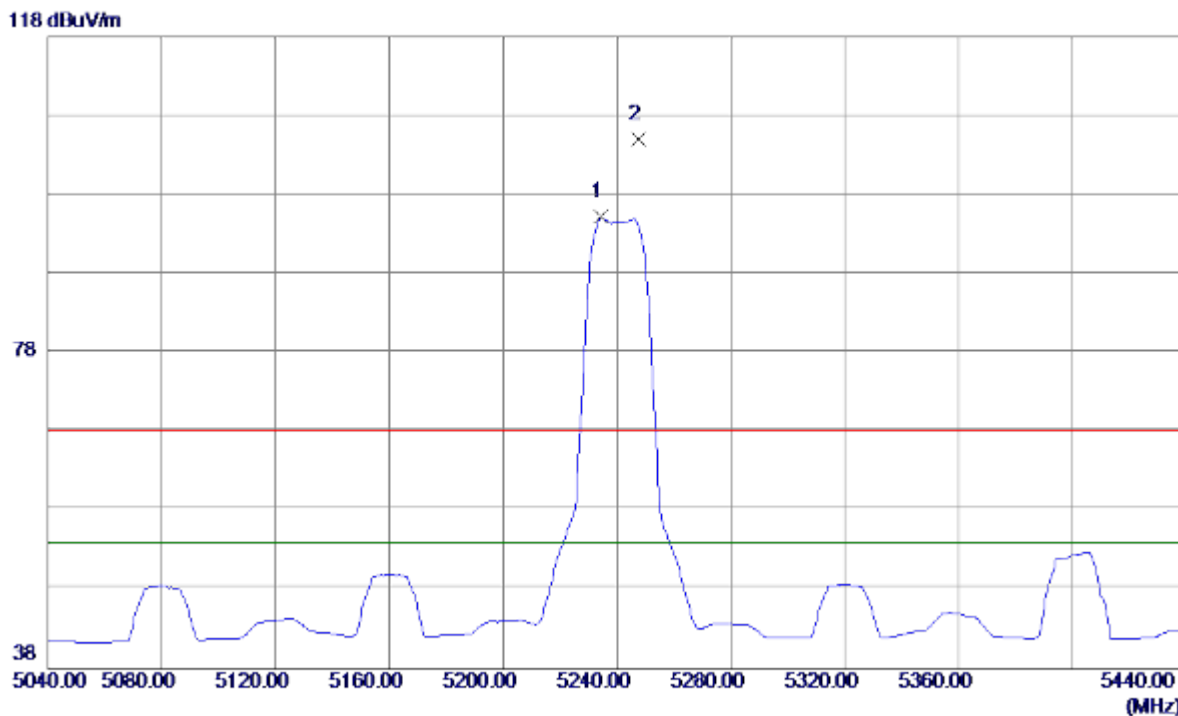
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10401.3500	36.98	13.80	50.78	54.00	-3.22	AVG	
2	10401.1400	49.83	13.80	63.63	68.30	-4.67	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz

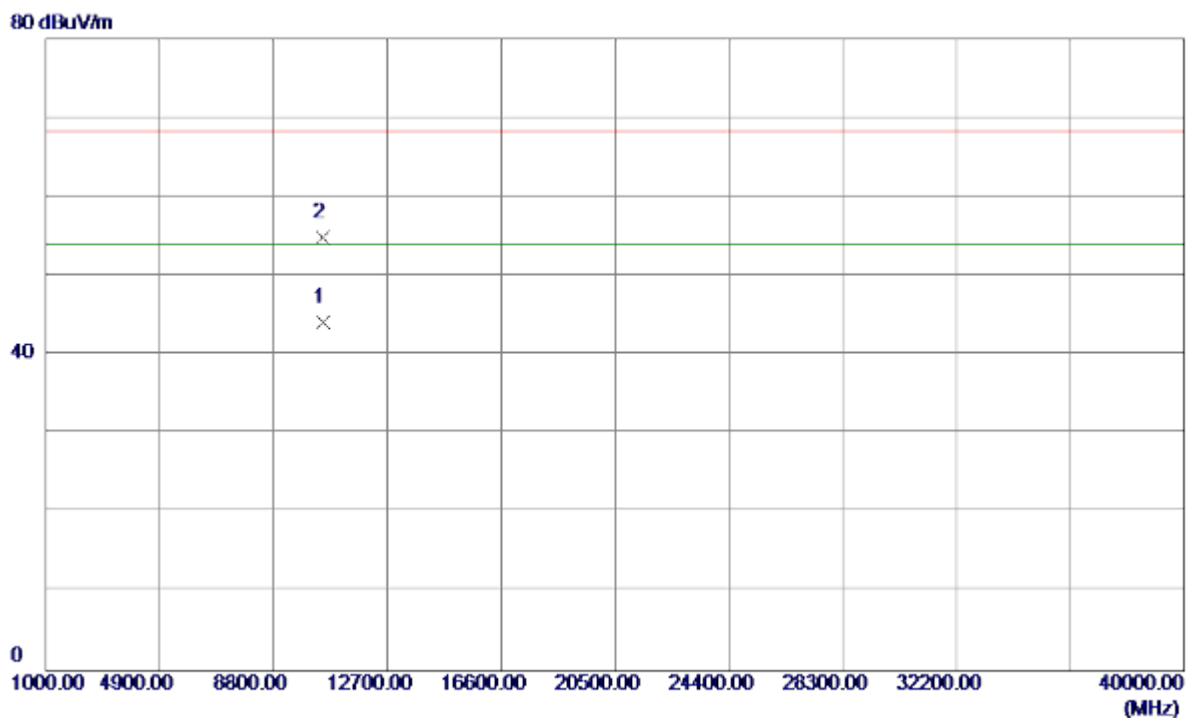
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5234.4000	54.81	40.40	95.21	54.00	41.21	AVG	No Limit
2	5247.6000	64.56	40.42	104.98	68.30	36.68	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz

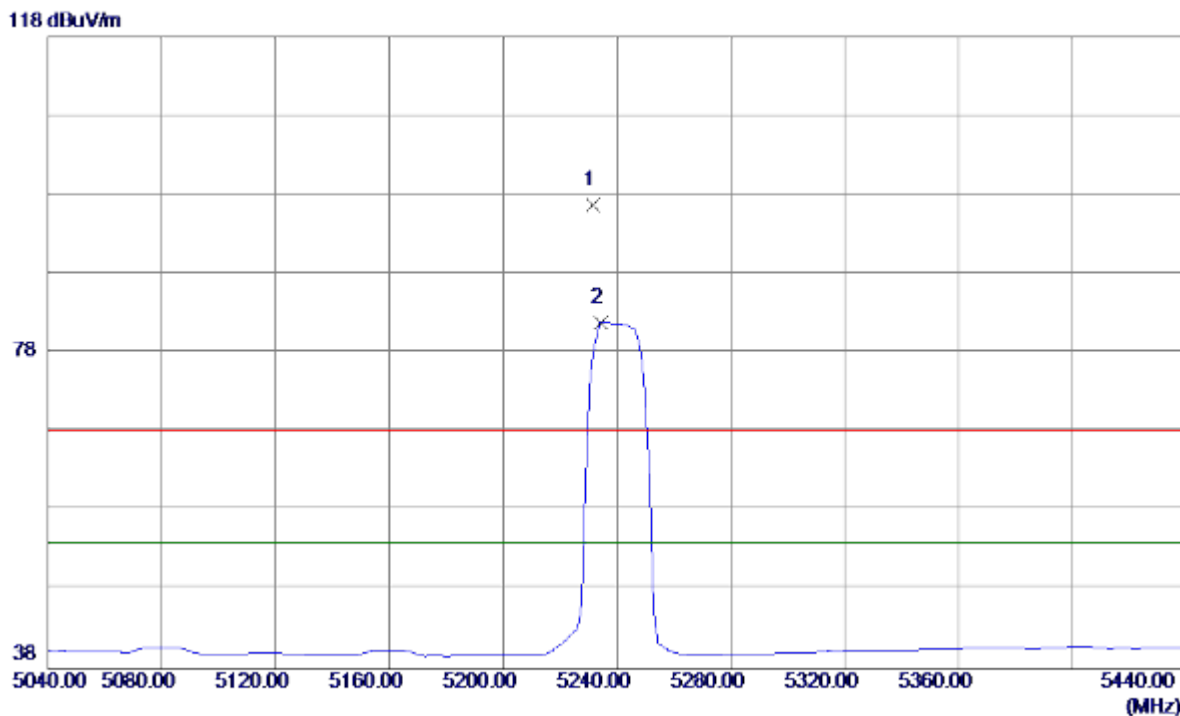
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10480.0900	30.51	13.69	44.20	54.00	-9.80	AVG	
2	10480.1500	41.14	13.69	54.83	68.30	-13.47	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz

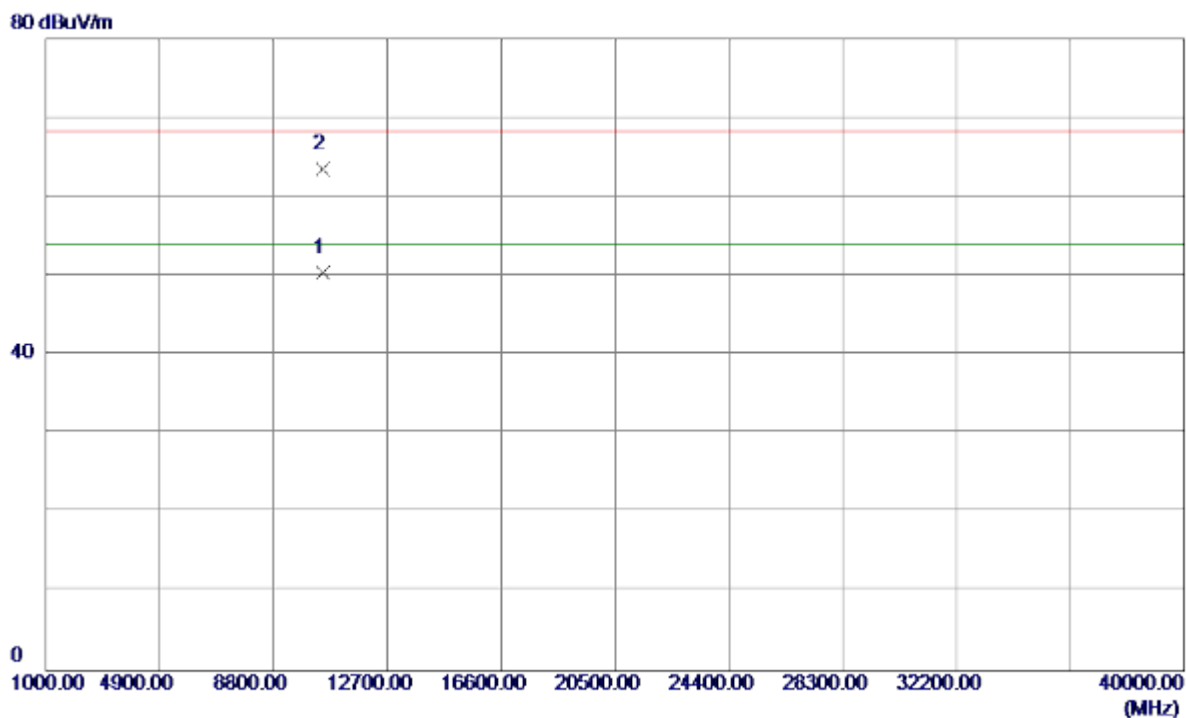
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5231.4250	56.40	40.39	96.79	68.30	28.49	Peak	No Limit
2	5234.4000	41.50	40.40	81.90	54.00	27.90	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz

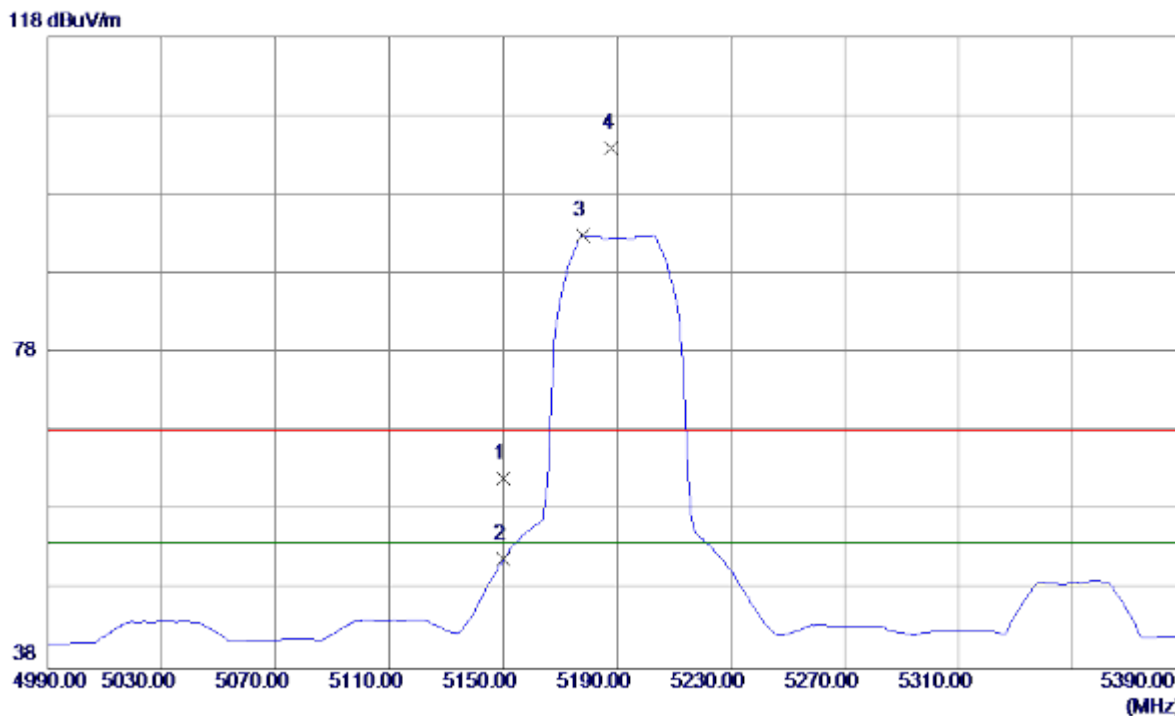
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10481.3200	36.69	13.69	50.38	54.00	-3.62	AVG	
2	10481.0500	49.78	13.69	63.47	68.30	-4.83	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

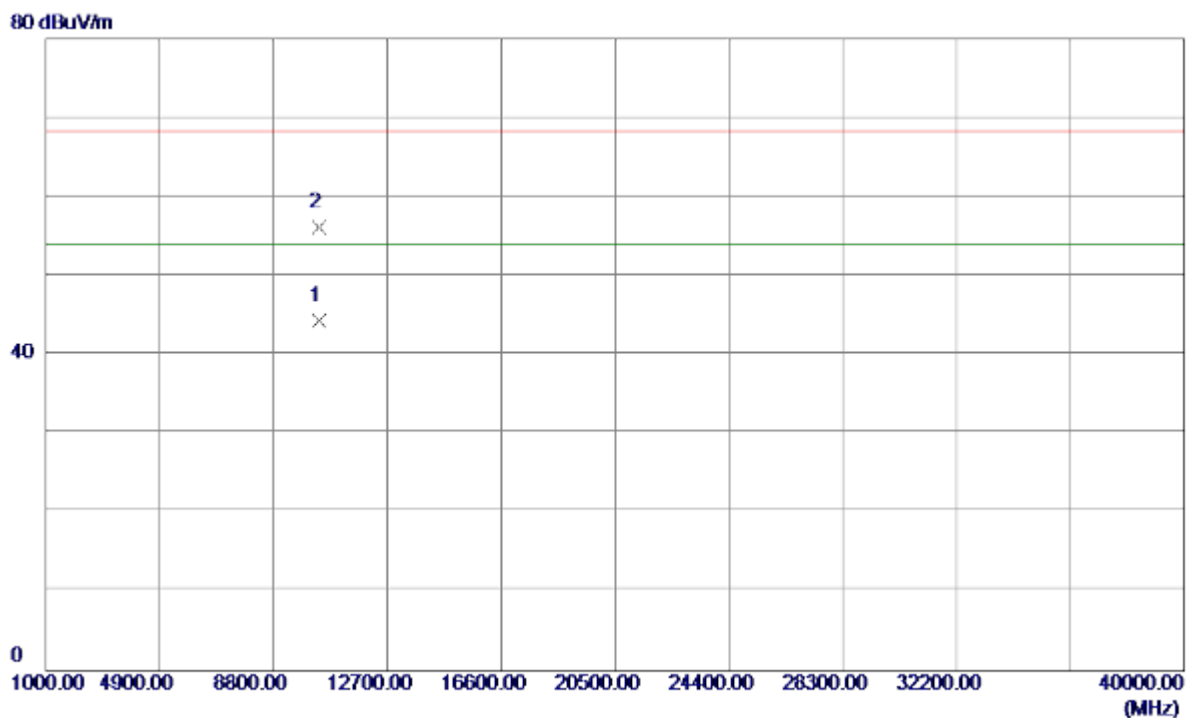
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	21.90	40.22	62.12	68.30	-6.18	Peak	
2	5150.0000	11.63	40.22	51.85	54.00	-2.15	AVG	
3 *	5178.0000	52.59	40.28	92.87	54.00	38.87	AVG	No Limit
4	5188.0000	63.64	40.30	103.94	68.30	35.64	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

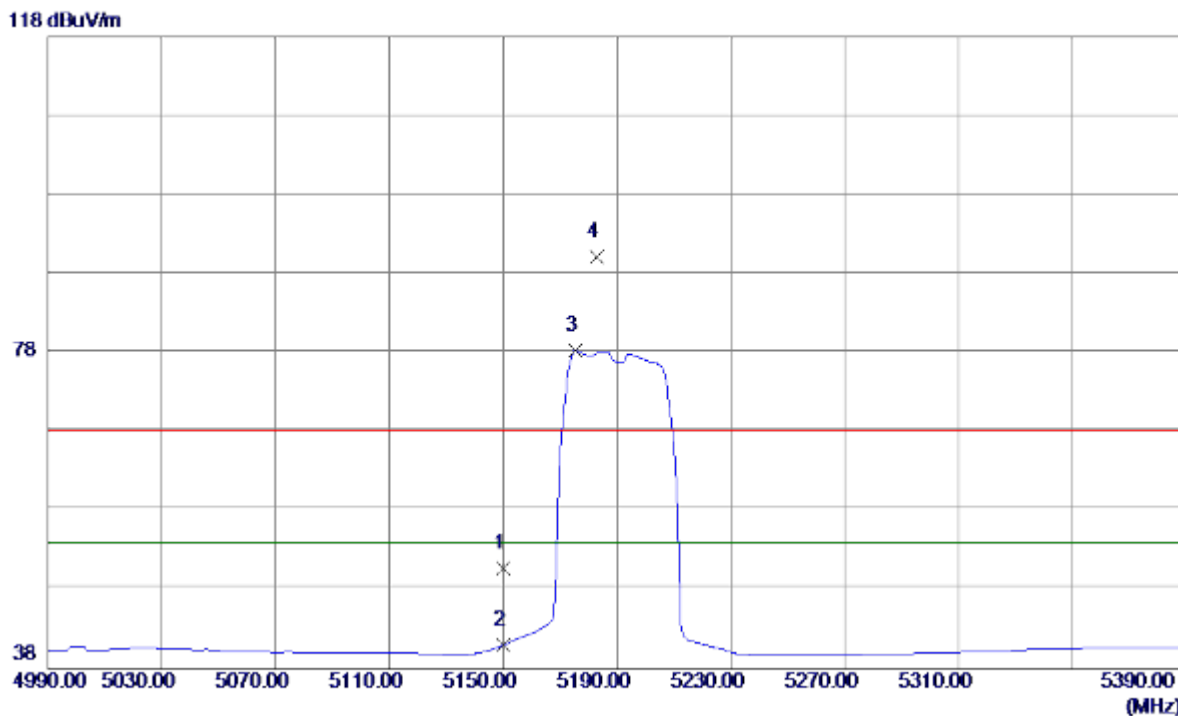
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10380.1000	30.47	13.83	44.30	54.00	-9.70	AVG	
2	10380.1900	42.37	13.83	56.20	68.30	-12.10	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

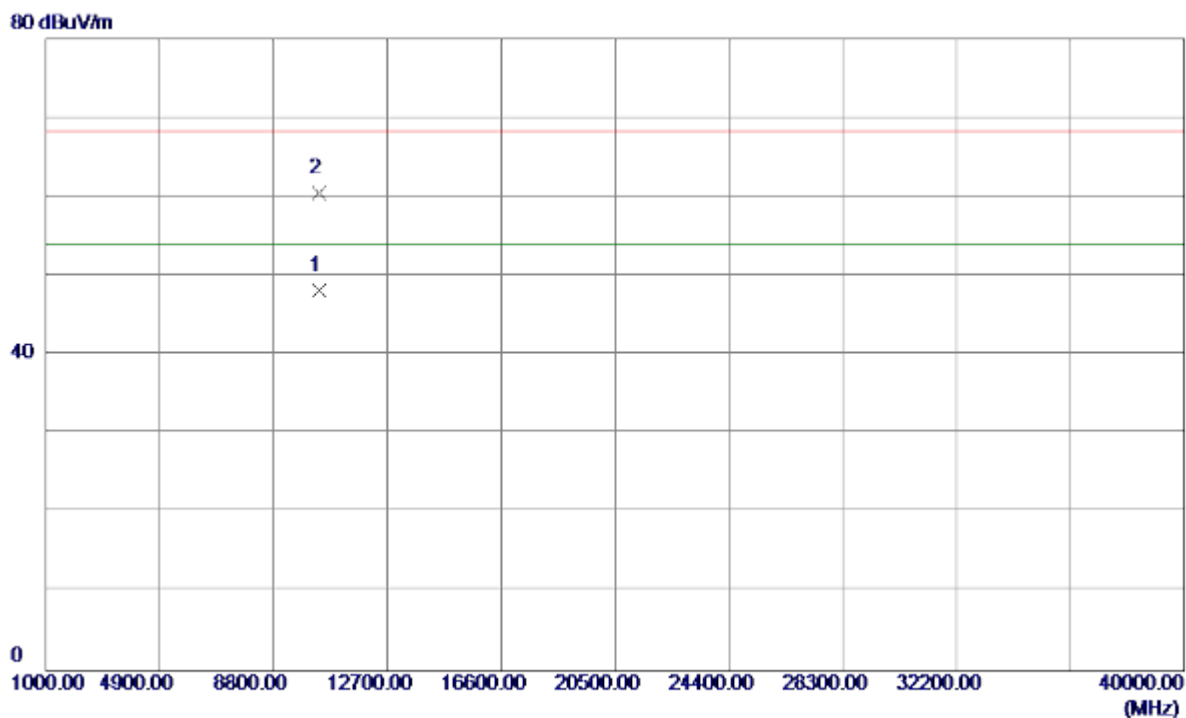
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	10.55	40.22	50.77	68.30	-17.53	Peak	
2	5150.0000	0.84	40.22	41.06	54.00	-12.94	AVG	
3 *	5175.2000	38.03	40.27	78.30	54.00	24.30	AVG	No Limit
4	5182.8000	49.83	40.29	90.12	68.30	21.82	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

Horizontal

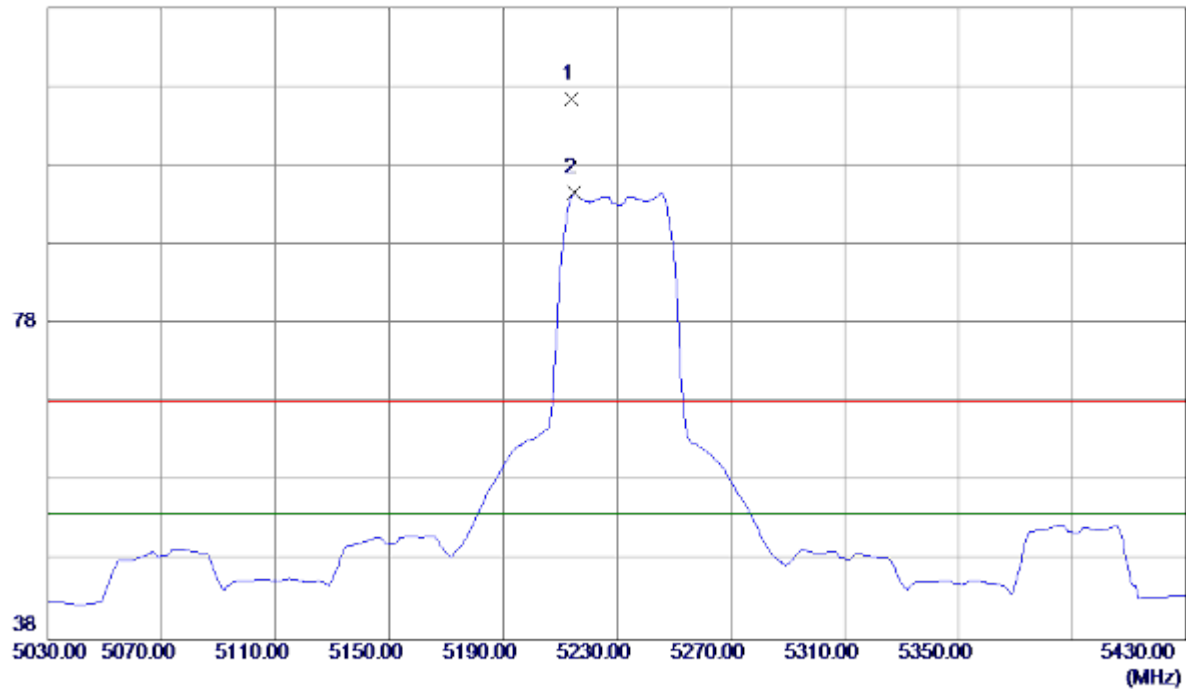


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10381.3500	34.28	13.83	48.11	54.00	-5.89	AVG	
2	10381.3800	46.67	13.83	60.50	68.30	-7.80	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

Vertical

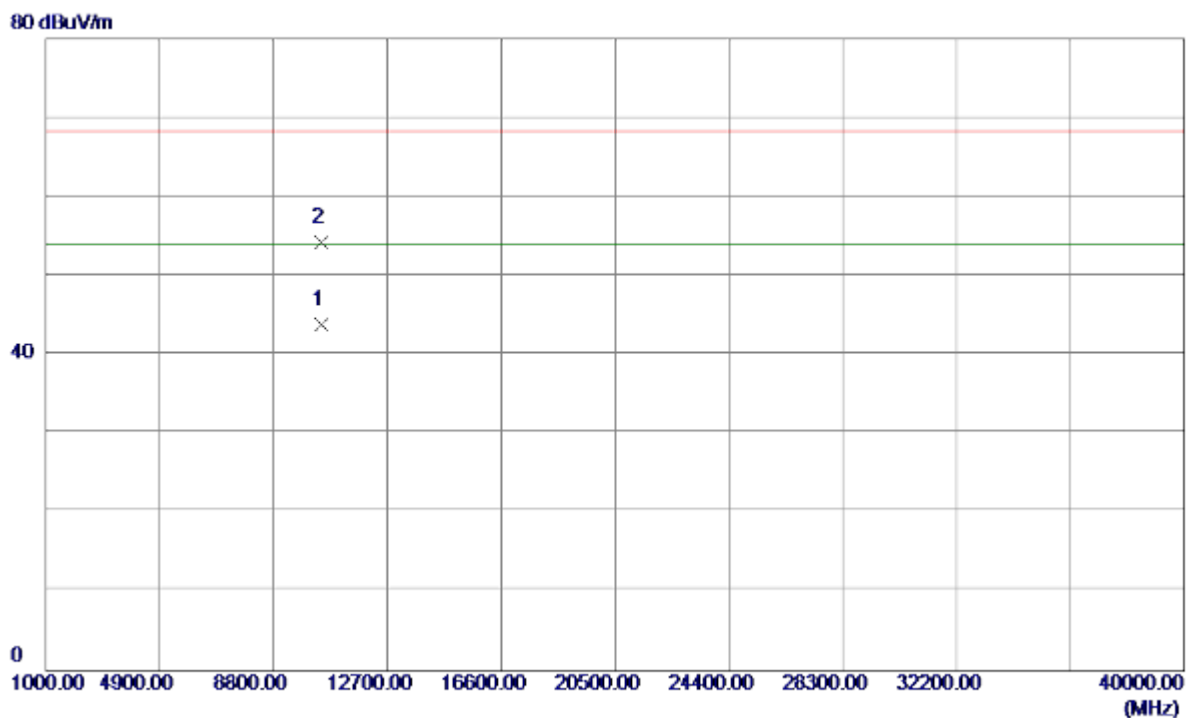
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5214.0000	66.15	40.35	106.50	68.30	38.20	Peak	No Limit
2 *	5214.8000	54.22	40.36	94.58	54.00	40.58	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

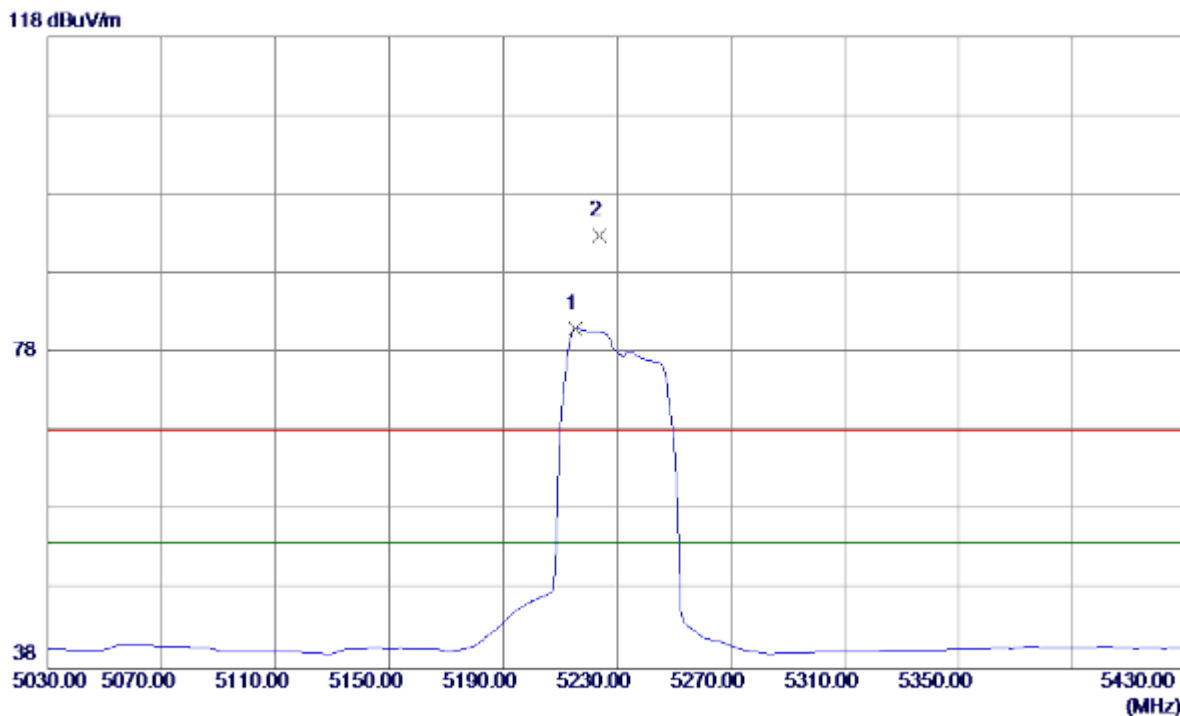
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10460.1100	30.19	13.72	43.91	54.00	-10.09	AVG	
2	10459.9900	40.46	13.72	54.18	68.30	-14.12	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

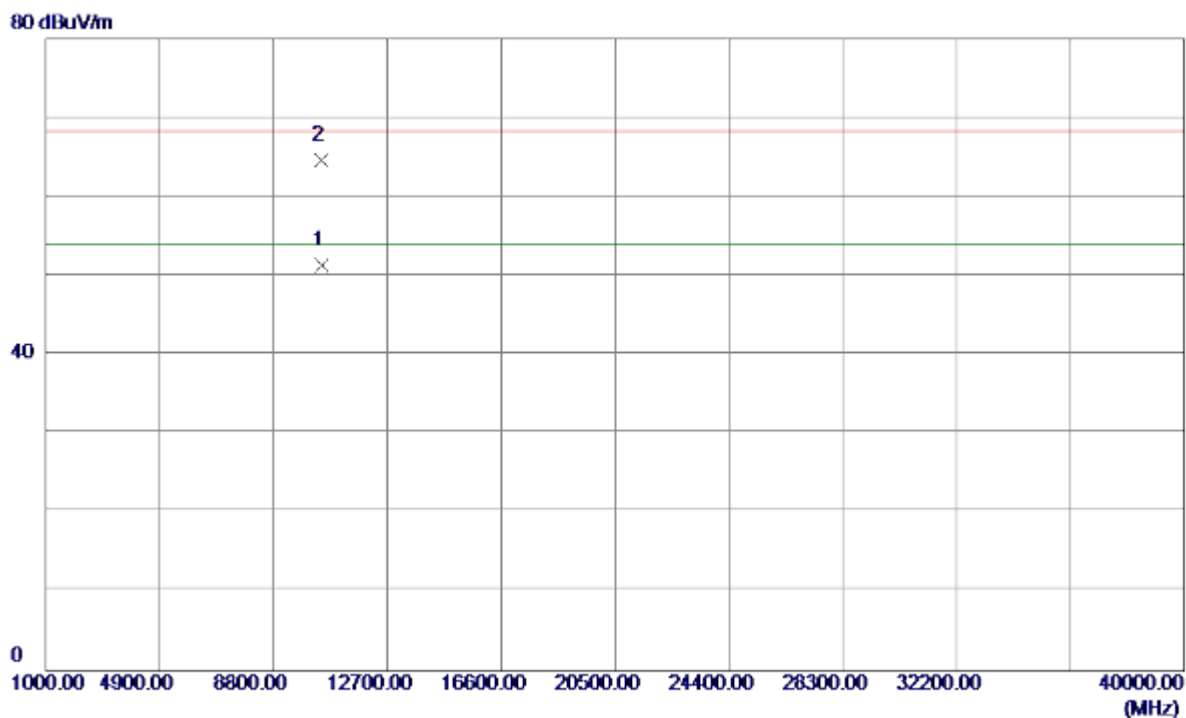
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5215.2000	40.74	40.36	81.10	54.00	27.10	AVG	No Limit
2	5223.6000	52.44	40.37	92.81	68.30	24.51	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

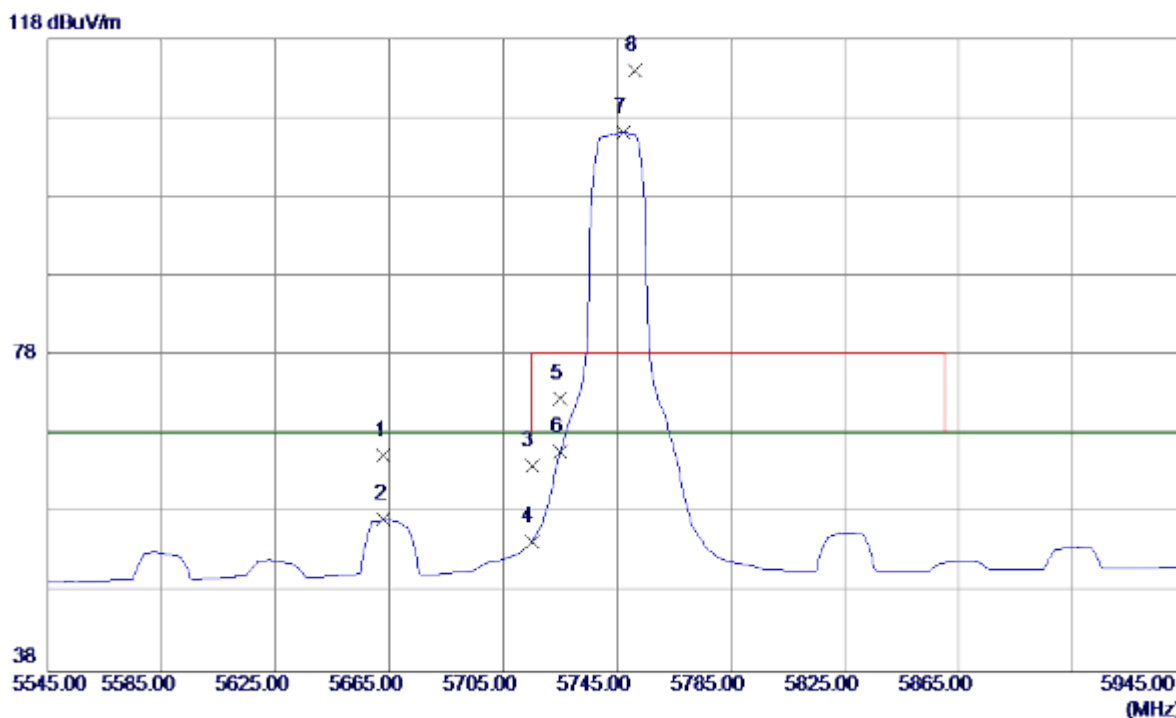
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10461.3500	37.67	13.72	51.39	54.00	-2.61	AVG	
2	10461.3500	50.99	13.72	64.71	68.30	-3.59	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

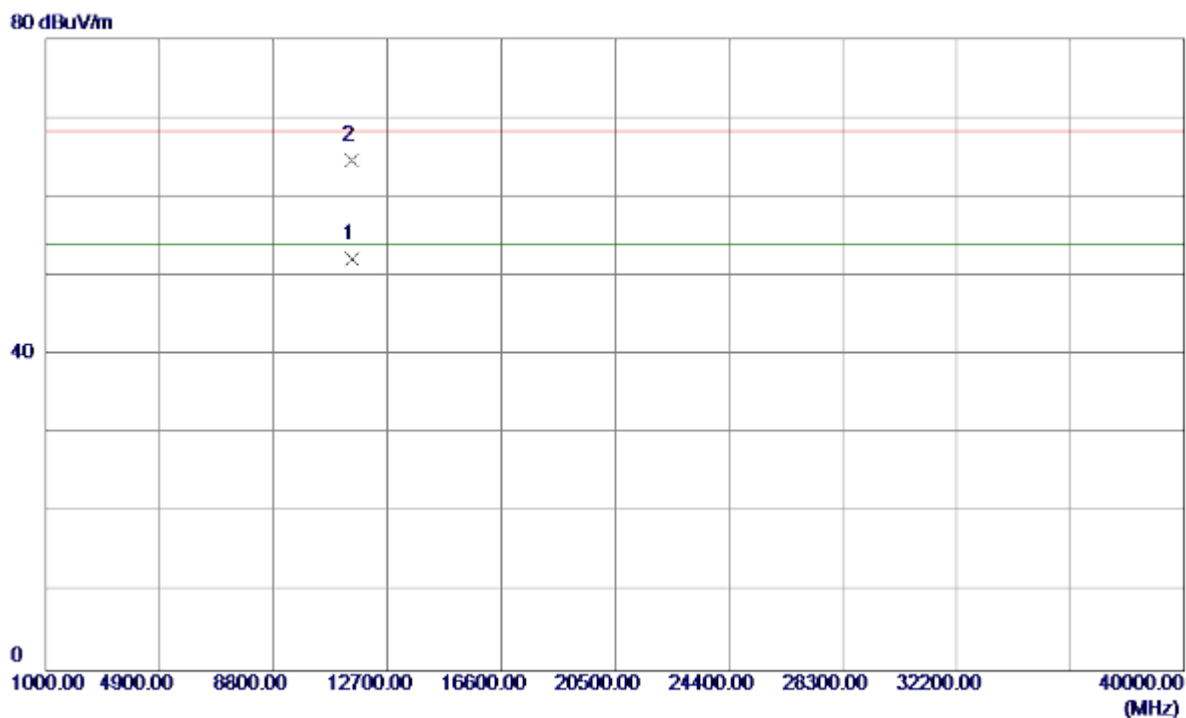
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5663.0000	25.06	40.27	65.33	68.30	-2.97	Peak	
2	5663.0000	17.02	40.27	57.29	68.30	-11.01	AVG	
3	5715.0000	23.55	40.54	64.09	68.30	-4.21	Peak	
4	5715.0000	13.97	40.54	54.51	68.30	-13.79	AVG	
5	5725.0000	31.96	40.59	72.55	78.30	-5.75	Peak	
6	5725.0000	25.29	40.59	65.88	68.30	-2.42	AVG	
7 *	5747.4000	65.51	40.71	106.22	68.30	37.92	AVG	No Limit
8	5751.4000	73.34	40.73	114.07	78.30	35.77	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

Vertical

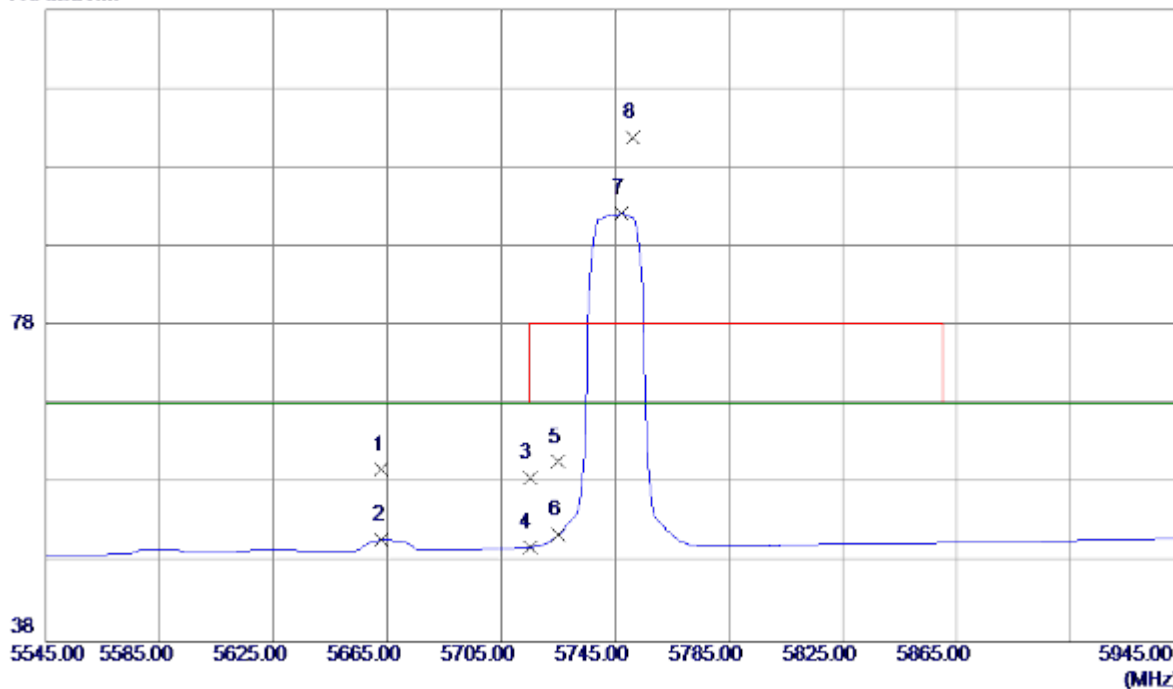


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.0700	35.21	16.91	52.12	54.00	-1.88	AVG	
2	11490.5300	47.70	16.91	64.61	68.30	-3.69	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

Horizontal

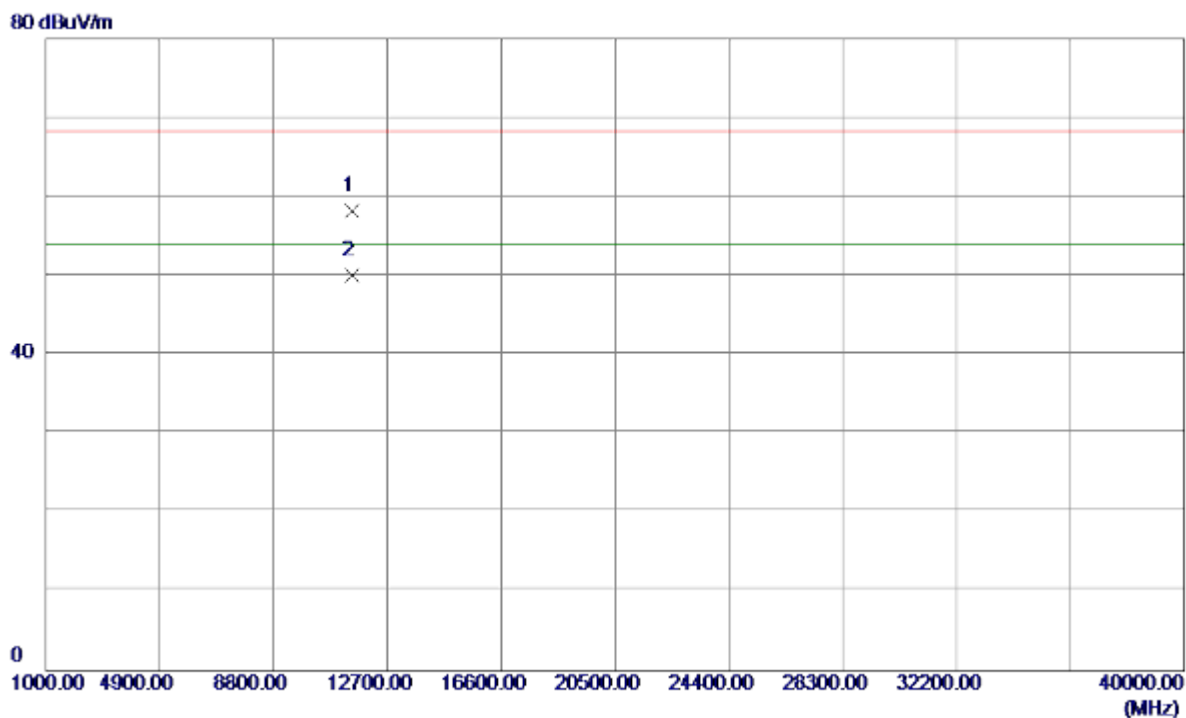
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5663.0000	19.57	40.27	59.84	68.30	-8.46	Peak	
2	5663.0000	10.69	40.27	50.96	68.30	-17.34	AVG	
3	5715.0000	18.20	40.54	58.74	68.30	-9.56	Peak	
4	5715.0000	9.48	40.54	50.02	68.30	-18.28	AVG	
5	5725.0000	20.21	40.59	60.80	78.30	-17.50	Peak	
6	5725.0000	10.98	40.59	51.57	68.30	-16.73	AVG	
7 *	5747.4000	51.55	40.71	92.26	68.30	23.96	AVG	No Limit
8	5751.4000	61.04	40.73	101.77	78.30	23.47	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

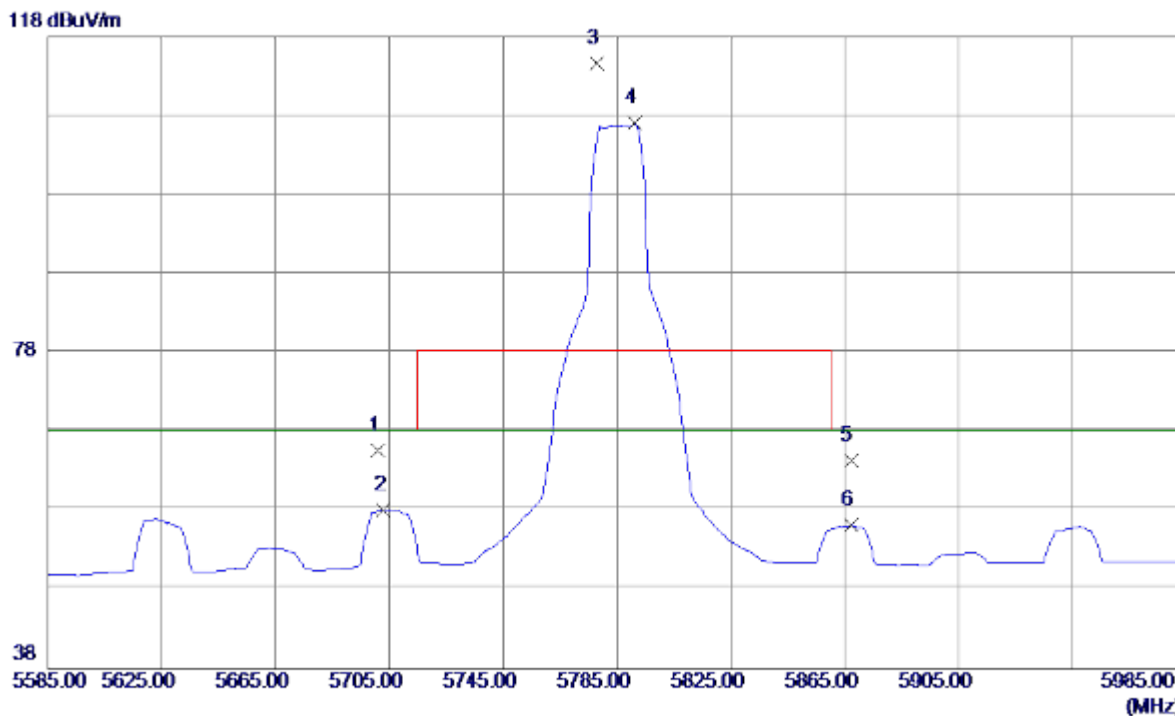
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	11490.1000	41.34	16.91	58.25	68.30	-10.05	Peak	
2 *	11490.1000	33.12	16.91	50.03	54.00	-3.97	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

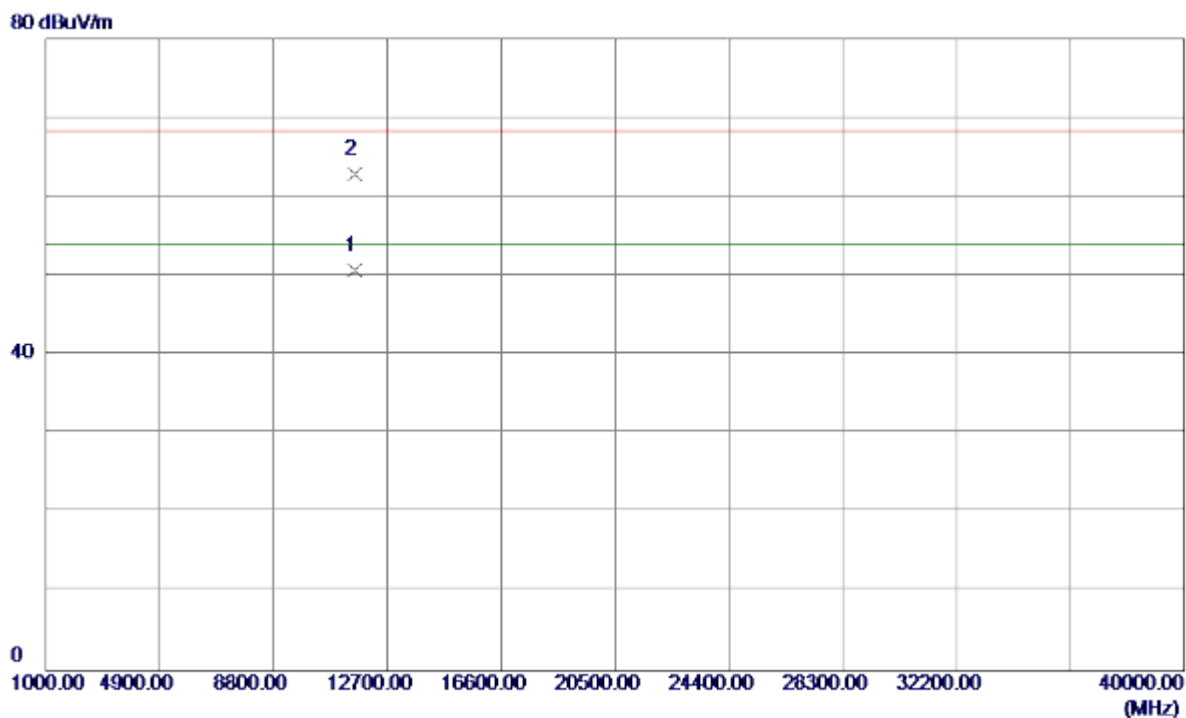
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5701.0000	25.24	40.47	65.71	68.30	-2.59	Peak	
2	5703.0000	17.73	40.48	58.21	68.30	-10.09	AVG	
3	5777.8000	73.85	40.86	114.71	78.30	36.41	Peak	No Limit
4 *	5791.4000	66.11	40.93	107.04	68.30	38.74	AVG	No Limit
5	5867.0000	23.08	41.32	64.40	68.30	-3.90	Peak	
6	5867.4000	14.86	41.32	56.18	68.30	-12.12	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

Vertical

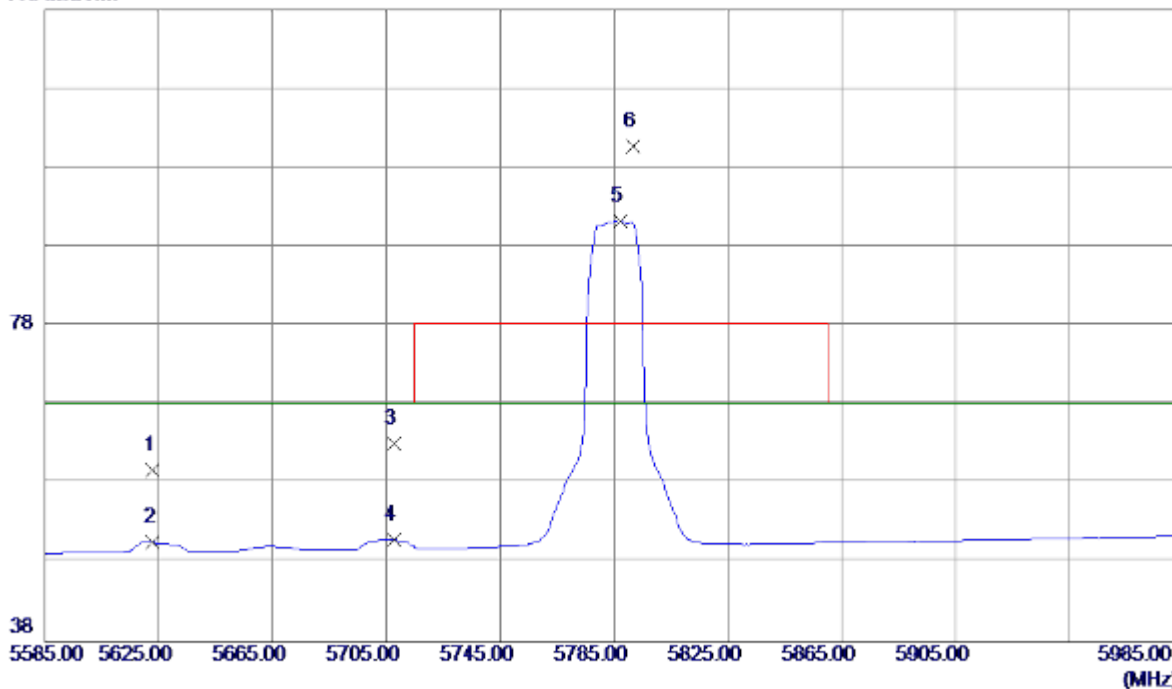


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.0400	33.69	17.05	50.74	54.00	-3.26	AVG	
2	11569.8900	45.80	17.05	62.85	68.30	-5.45	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

Horizontal

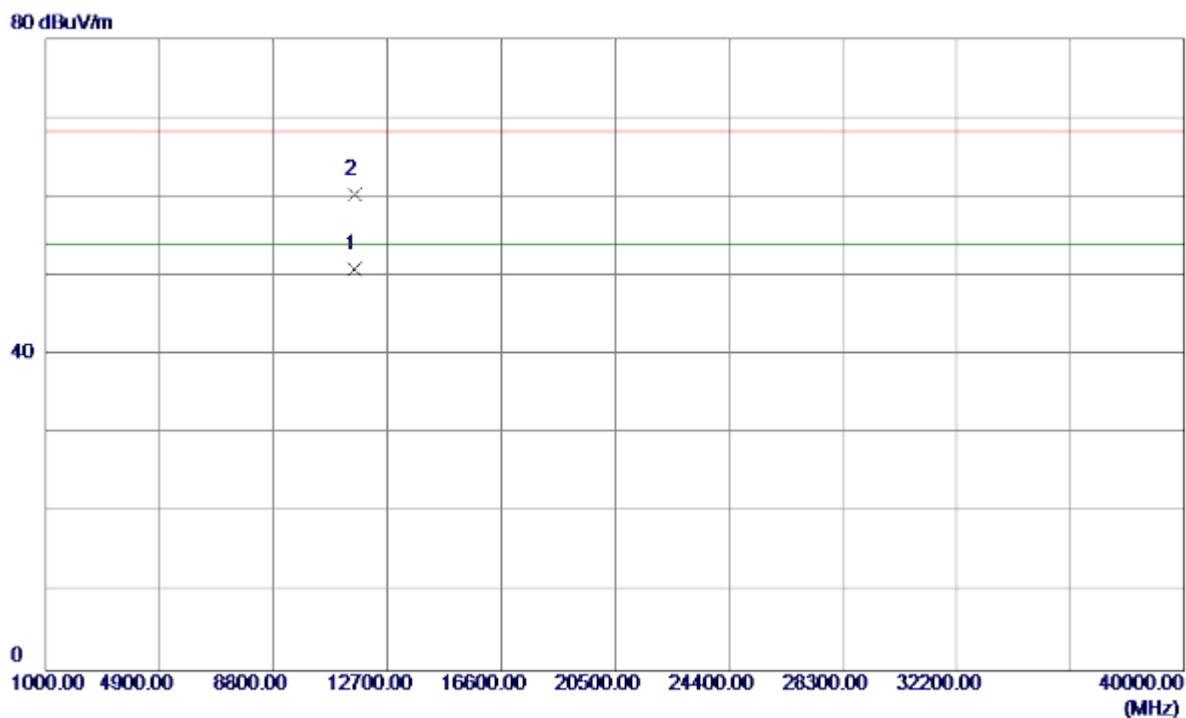
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5623.0000	19.73	40.07	59.80	68.30	-8.50	Peak	
2	5623.0000	10.57	40.07	50.64	68.30	-17.66	AVG	
3	5707.8000	22.65	40.50	63.15	68.30	-5.15	Peak	
4	5707.8000	10.44	40.50	50.94	68.30	-17.36	AVG	
5 *	5787.4000	50.32	40.91	91.23	68.30	22.93	AVG	No Limit
6	5791.8000	59.85	40.93	100.78	78.30	22.48	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

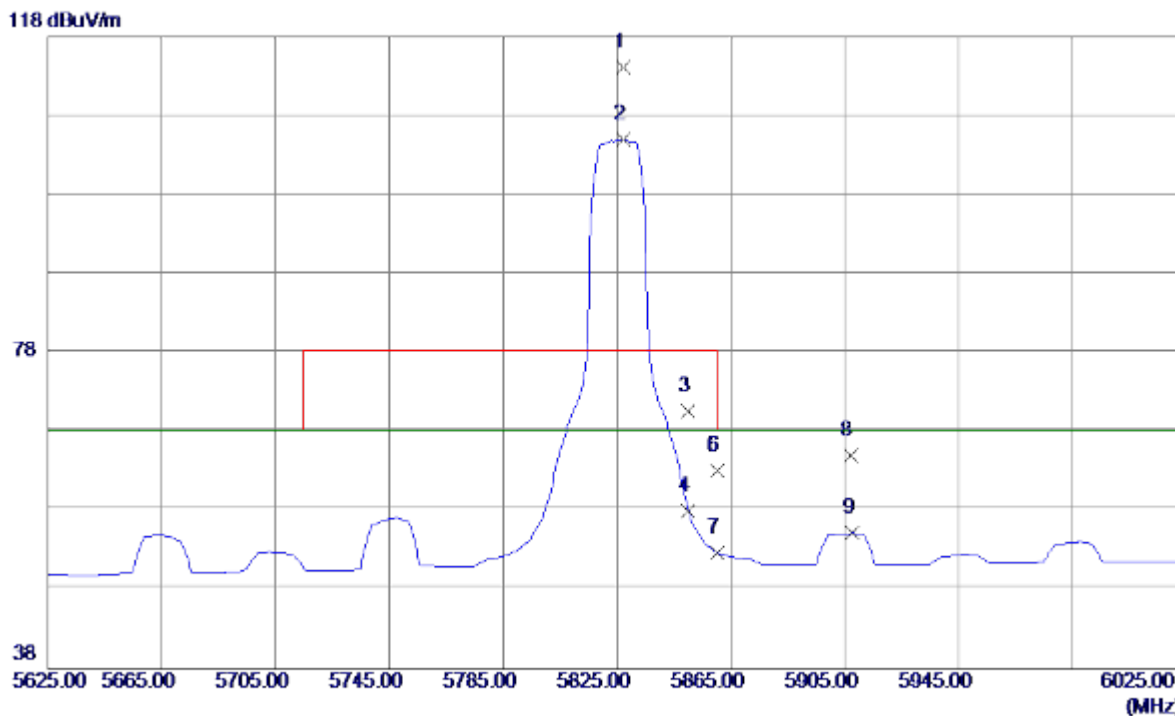
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.0400	33.81	17.05	50.86	54.00	-3.14	AVG	
2	11570.0400	43.29	17.05	60.34	68.30	-7.96	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

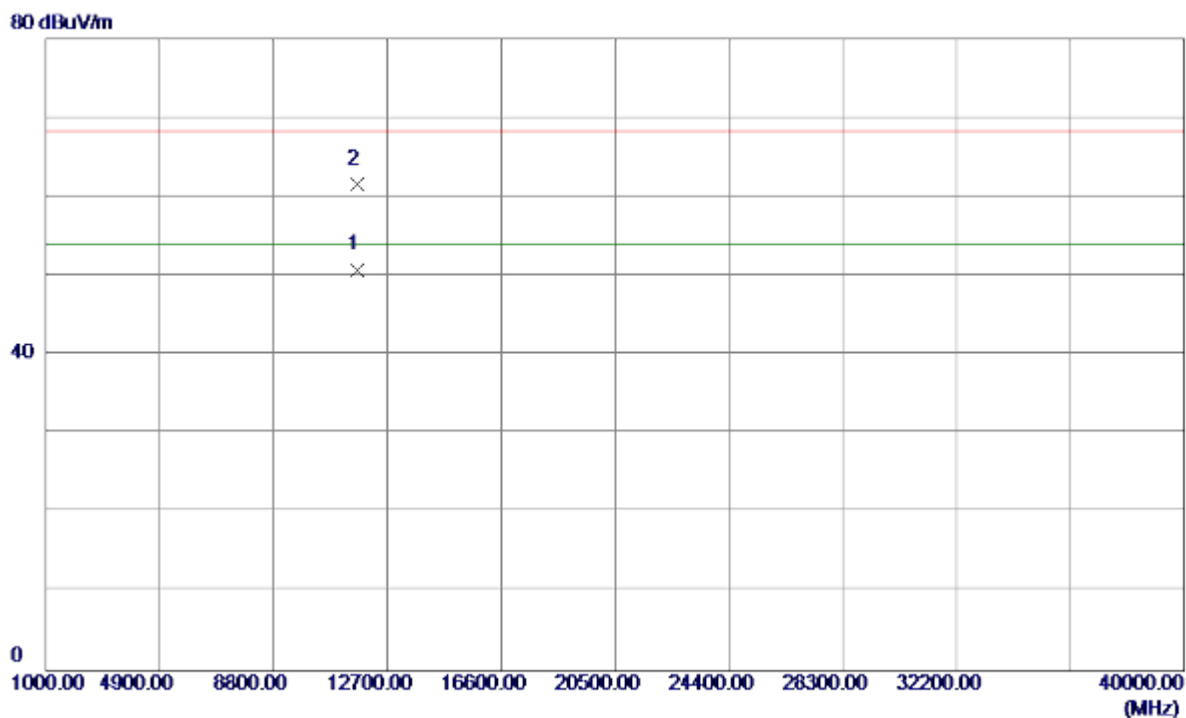
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5827.4000	73.02	41.12	114.14	78.30	35.84	Peak	No Limit
2 *	5827.4000	63.88	41.12	105.00	68.30	36.70	AVG	No Limit
3	5850.0000	29.43	41.23	70.66	78.30	-7.64	Peak	
4	5850.0000	16.72	41.23	57.95	68.30	-10.35	AVG	
5	5860.0000	21.82	41.28	63.10	78.30	-15.20	Peak	
6	5860.0000	21.82	41.28	63.10	78.30	-15.20	Peak	
7	5860.0000	11.50	41.28	52.78	68.30	-15.52	AVG	
8	5907.0000	23.47	41.52	64.99	68.30	-3.31	Peak	
9	5907.8000	13.70	41.53	55.23	68.30	-13.07	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

Vertical

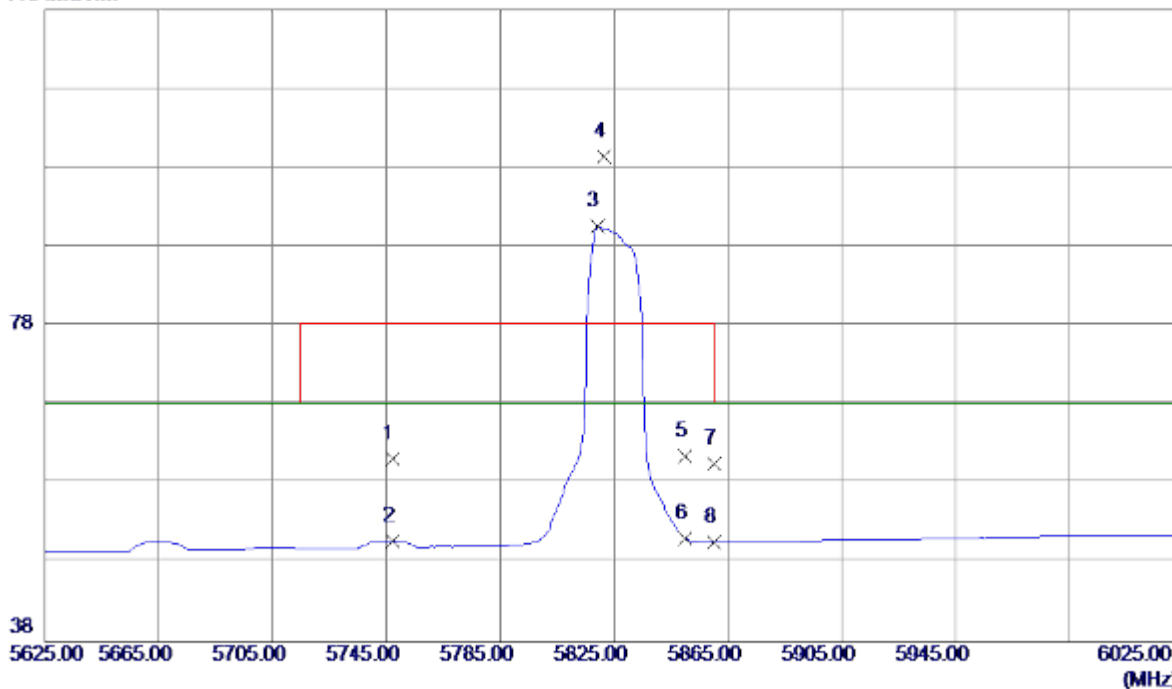


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11650.0599	33.63	17.17	50.80	54.00	-3.20	AVG	
2	11650.1500	44.46	17.17	61.63	68.30	-6.67	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

Horizontal

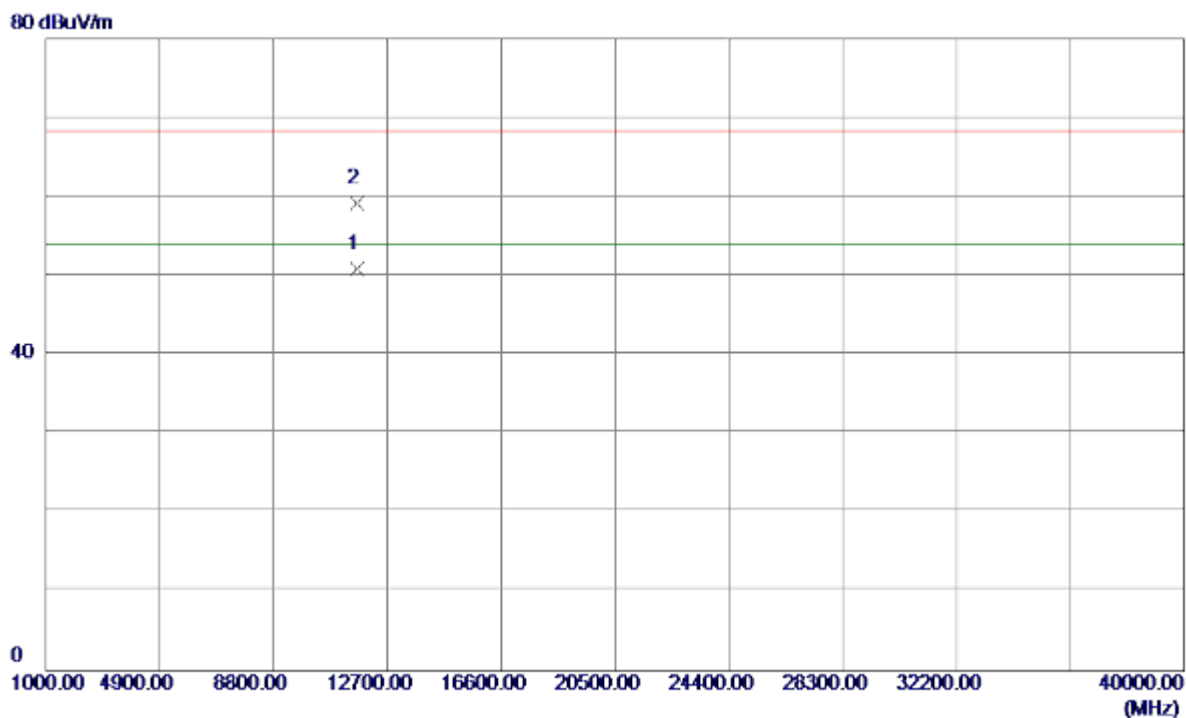
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5747.0000	20.53	40.70	61.23	78.30	-17.07	Peak	
2	5747.4000	10.04	40.71	50.75	68.30	-17.55	AVG	
3 *	5819.0000	49.50	41.07	90.57	68.30	22.27	AVG	No Limit
4	5821.4000	58.40	41.09	99.49	78.30	21.19	Peak	No Limit
5	5850.0000	20.22	41.23	61.45	78.30	-16.85	Peak	
6	5850.0000	9.82	41.23	51.05	68.30	-17.25	AVG	
7	5860.0000	19.32	41.28	60.60	78.30	-17.70	Peak	
8	5860.0000	9.36	41.28	50.64	68.30	-17.66	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

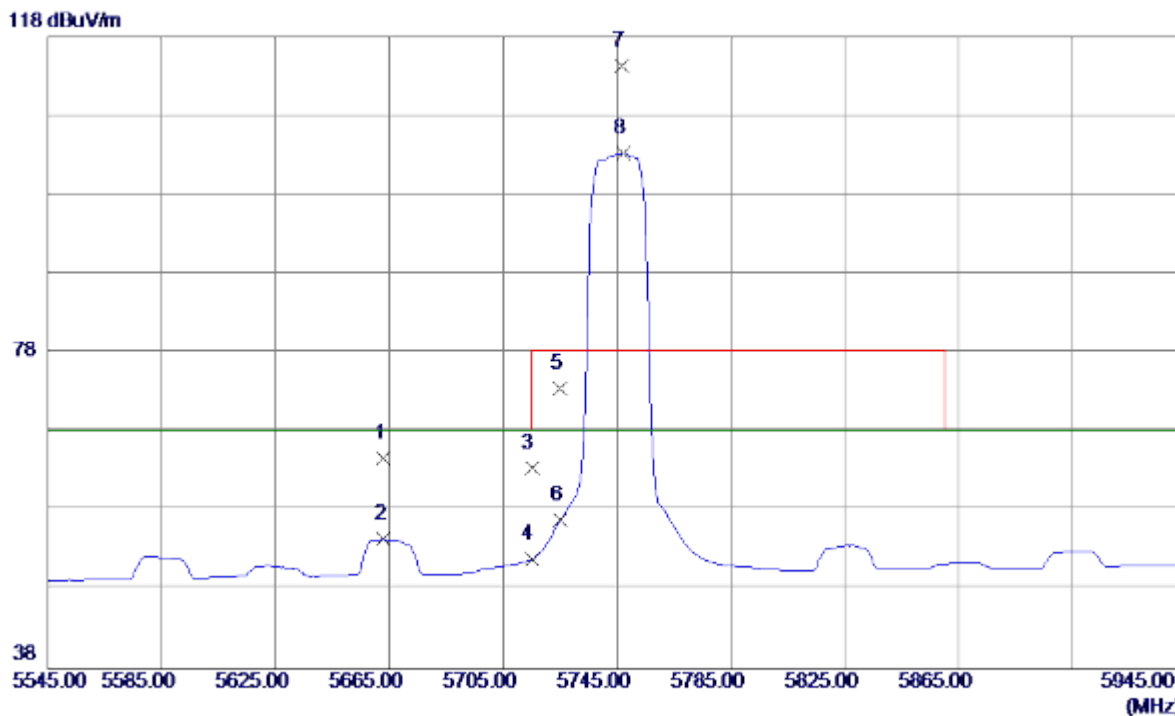
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11650.2200	33.69	17.17	50.86	54.00	-3.14	AVG	
2	11650.2200	41.99	17.17	59.16	68.30	-9.14	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

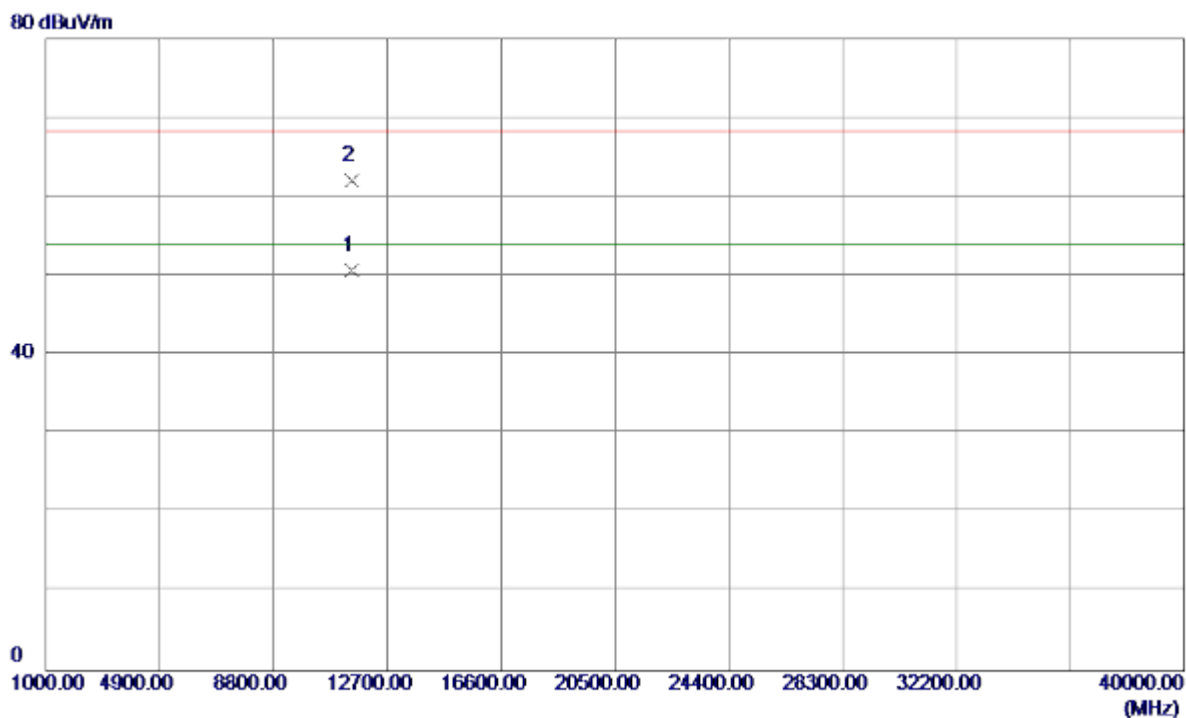
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5663.0000	24.43	40.27	64.70	68.30	-3.60	Peak	
2	5663.0000	14.21	40.27	54.48	68.30	-13.82	AVG	
3	5715.0000	22.84	40.54	63.38	68.30	-4.92	Peak	
4	5715.0000	11.35	40.54	51.89	68.30	-16.41	AVG	
5	5725.0000	32.92	40.59	73.51	78.30	-4.79	Peak	
6	5725.0000	16.30	40.59	56.89	68.30	-11.41	AVG	
7 *	5746.6000	73.61	40.70	114.31	78.30	36.01	Peak	No Limit
8	5747.4000	62.58	40.71	103.29	68.30	34.99	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

Vertical

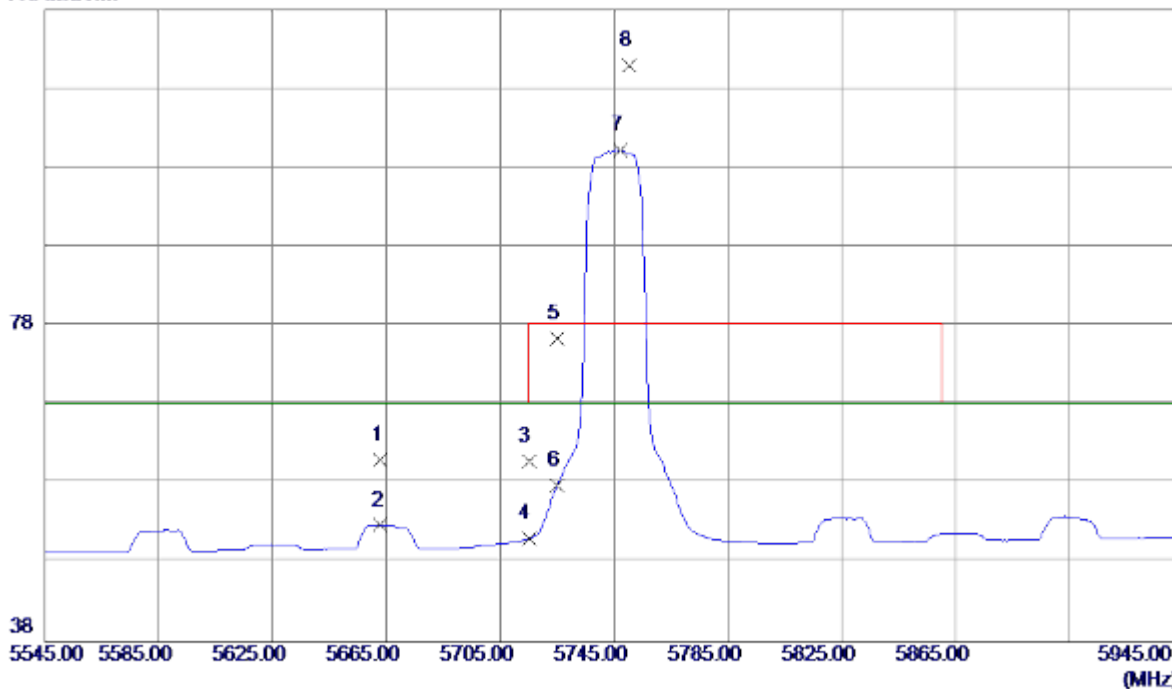


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.1500	33.79	16.91	50.70	54.00	-3.30	AVG	
2	11490.8700	45.10	16.91	62.01	68.30	-6.29	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

Horizontal

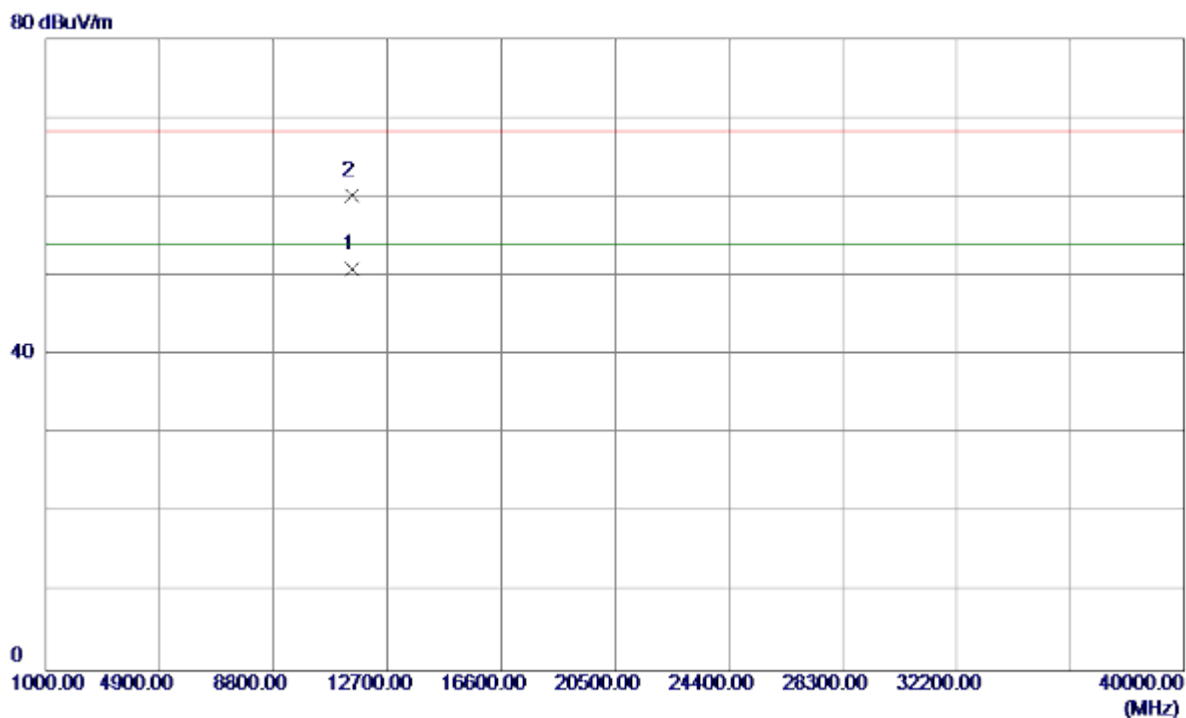
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5663.0000	20.74	40.27	61.01	68.30	-7.29	Peak	
2	5663.0000	12.53	40.27	52.80	68.30	-15.50	AVG	
3	5715.0000	20.36	40.54	60.90	68.30	-7.40	Peak	
4	5715.0000	10.54	40.54	51.08	68.30	-17.22	AVG	
5	5725.0000	35.85	40.59	76.44	78.30	-1.86	Peak	
6	5725.0000	17.29	40.59	57.88	68.30	-10.42	AVG	
7	5747.4000	59.50	40.71	100.21	68.30	31.91	AVG	No Limit
8 *	5750.2000	70.27	40.72	110.99	78.30	32.69	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

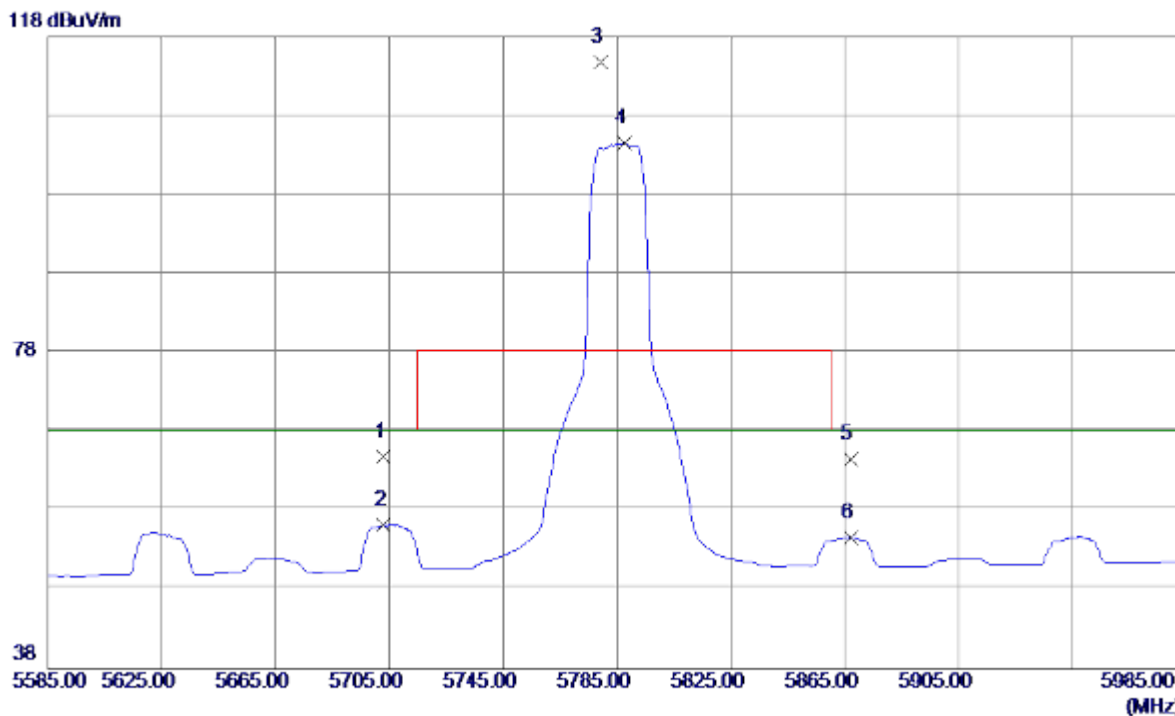
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.1400	33.98	16.91	50.89	54.00	-3.11	AVG	
2	11490.1400	43.27	16.91	60.18	68.30	-8.12	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

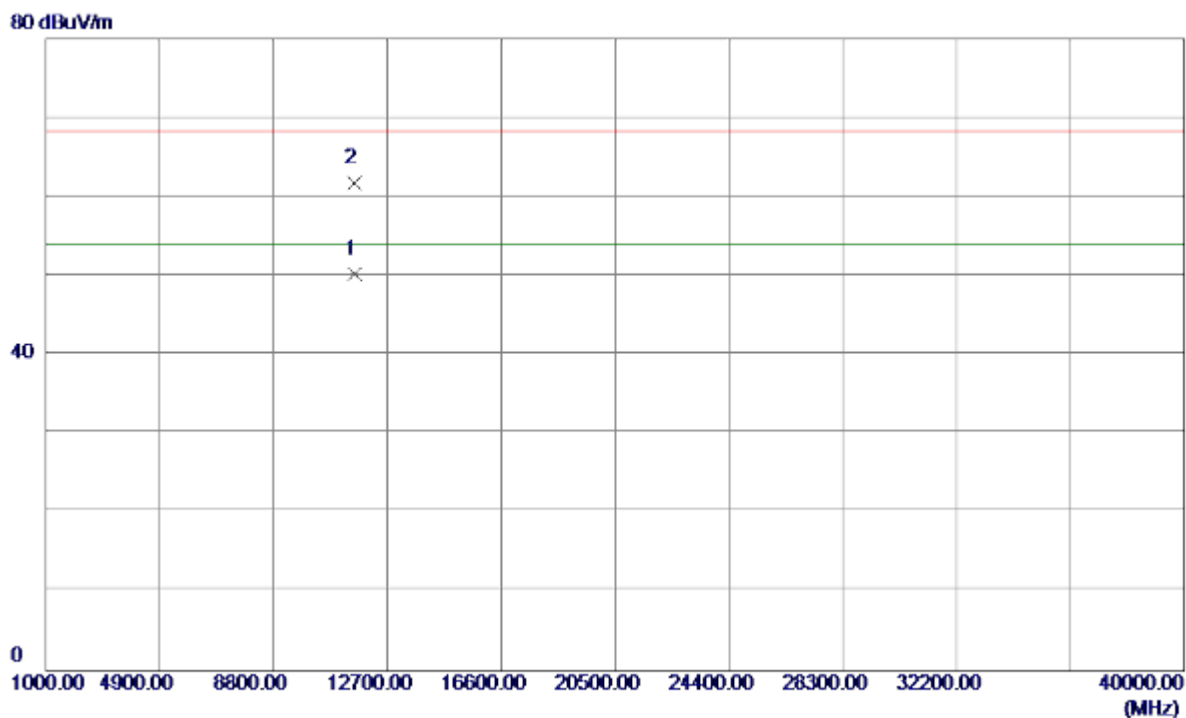
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5703.0000	24.47	40.48	64.95	68.30	-3.35	Peak	
2	5703.0000	15.75	40.48	56.23	68.30	-12.07	AVG	
3 *	5779.4000	73.97	40.87	114.84	78.30	36.54	Peak	No Limit
4	5787.8000	63.62	40.91	104.53	68.30	36.23	AVG	No Limit
5	5867.0000	23.22	41.32	64.54	68.30	-3.76	Peak	
6	5867.4000	13.33	41.32	54.65	68.30	-13.65	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

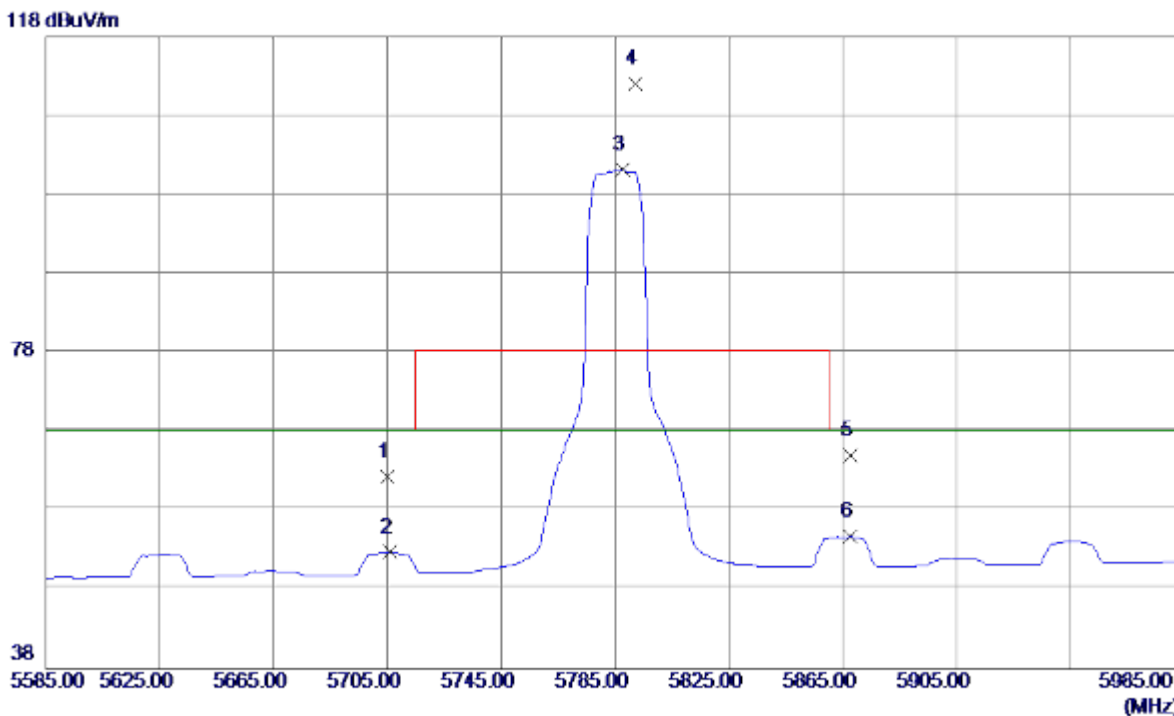
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11569.8200	33.26	17.05	50.31	54.00	-3.69	AVG	
2	11569.7200	44.68	17.05	61.73	68.30	-6.57	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

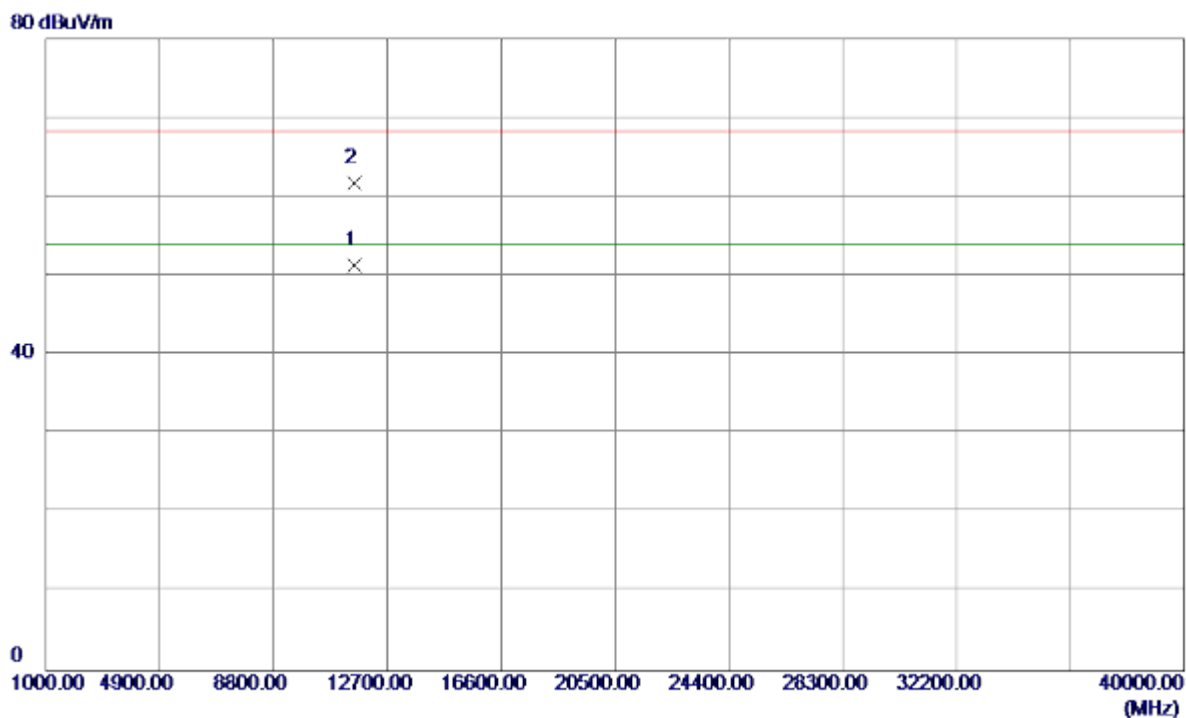
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5705.0000	21.79	40.49	62.28	68.30	-6.02	Peak	
2	5705.8000	12.31	40.49	52.80	68.30	-15.50	AVG	
3	5787.8000	60.24	40.91	101.15	68.30	32.85	AVG	No Limit
4 *	5792.2000	71.21	40.94	112.15	78.30	33.85	Peak	No Limit
5	5867.8000	23.75	41.32	65.07	68.30	-3.23	Peak	
6	5867.8000	13.43	41.32	54.75	68.30	-13.55	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

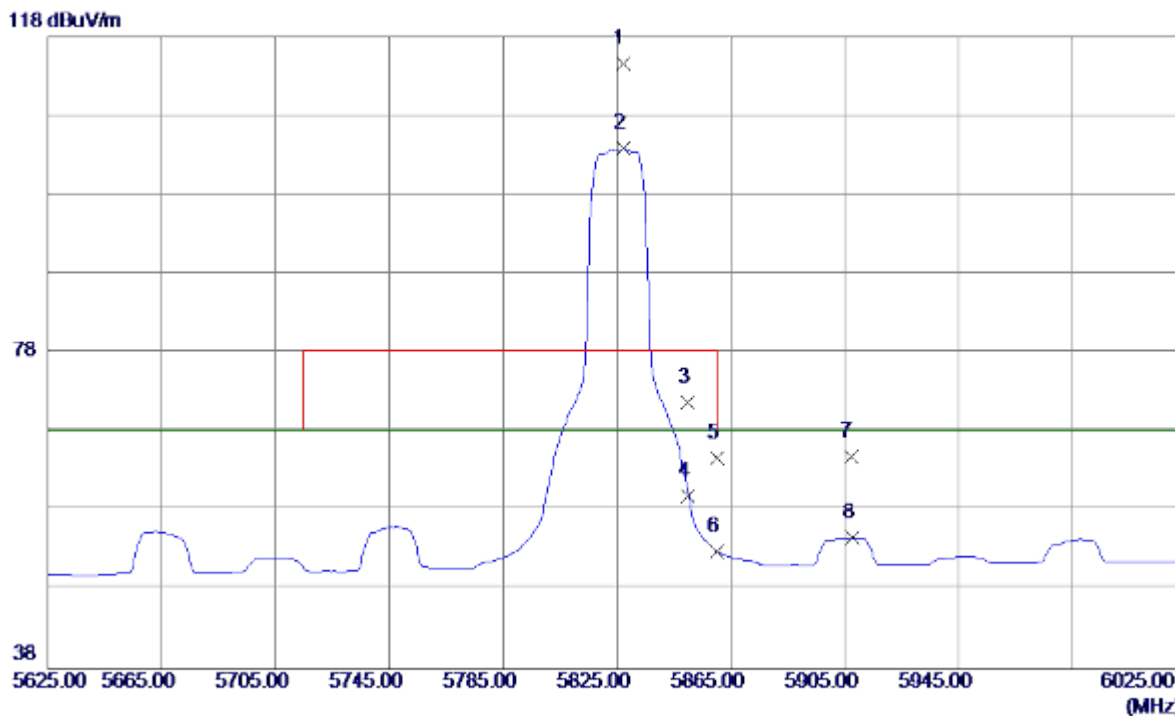
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.1000	34.36	17.05	51.41	54.00	-2.59	AVG	
2	11570.1000	44.67	17.05	61.72	68.30	-6.58	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

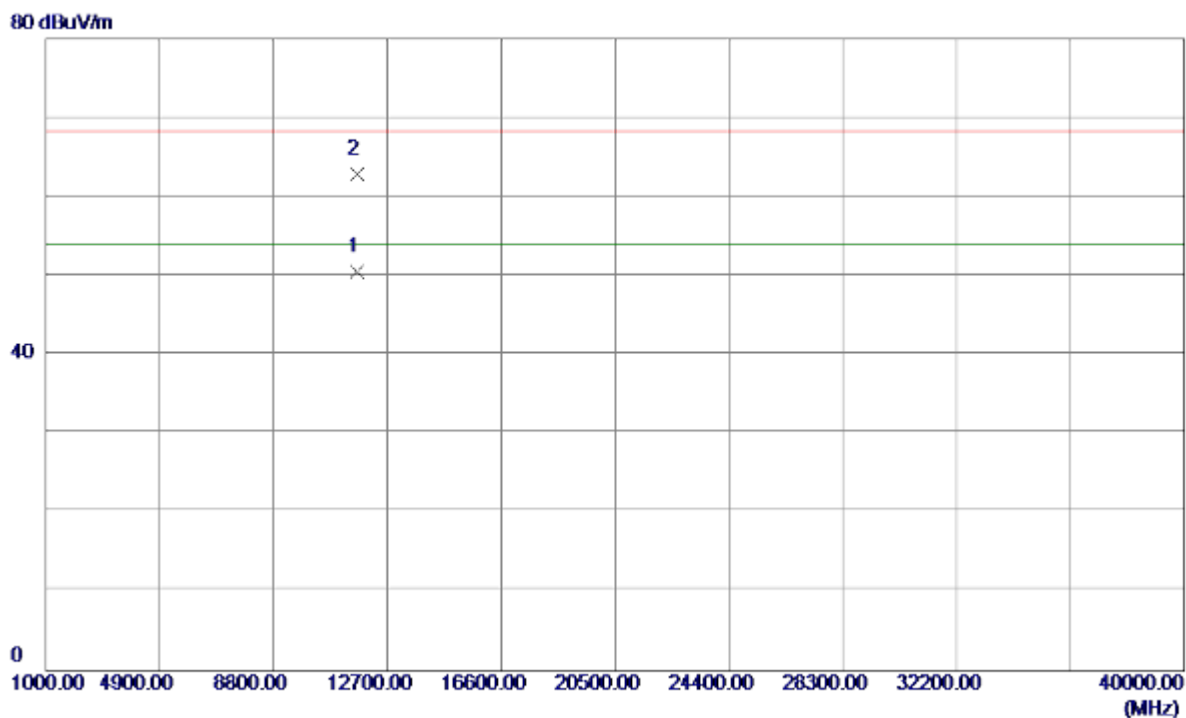
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5827.0000	73.48	41.11	114.59	78.30	36.29	Peak	No Limit
2	5827.4000	62.73	41.12	103.85	68.30	35.55	AVG	No Limit
3	5850.0000	30.57	41.23	71.80	78.30	-6.50	Peak	
4	5850.0000	18.66	41.23	59.89	68.30	-8.41	AVG	
5	5860.0000	23.46	41.28	64.74	78.30	-13.56	Peak	
6	5860.0000	11.67	41.28	52.95	68.30	-15.35	AVG	
7	5907.0000	23.34	41.52	64.86	68.30	-3.44	Peak	
8	5907.8000	13.05	41.53	54.58	68.30	-13.72	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

Vertical

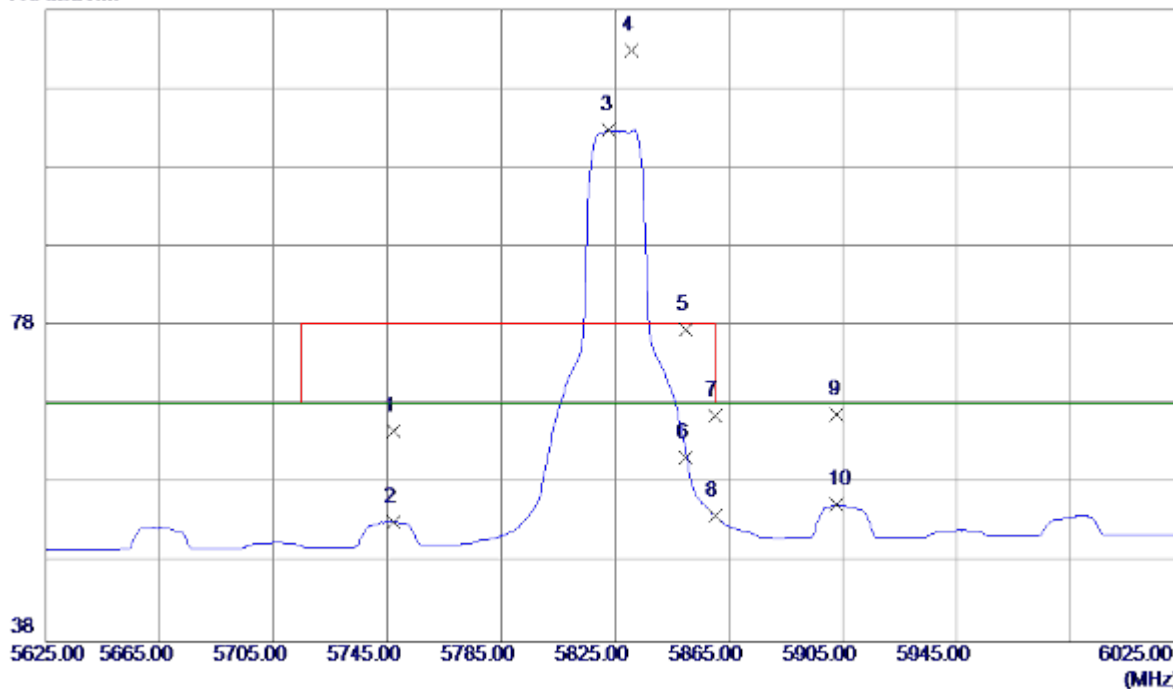


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11650.1700	33.40	17.17	50.57	54.00	-3.43	AVG	
2	11650.2200	45.66	17.17	62.83	68.30	-5.47	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

Horizontal

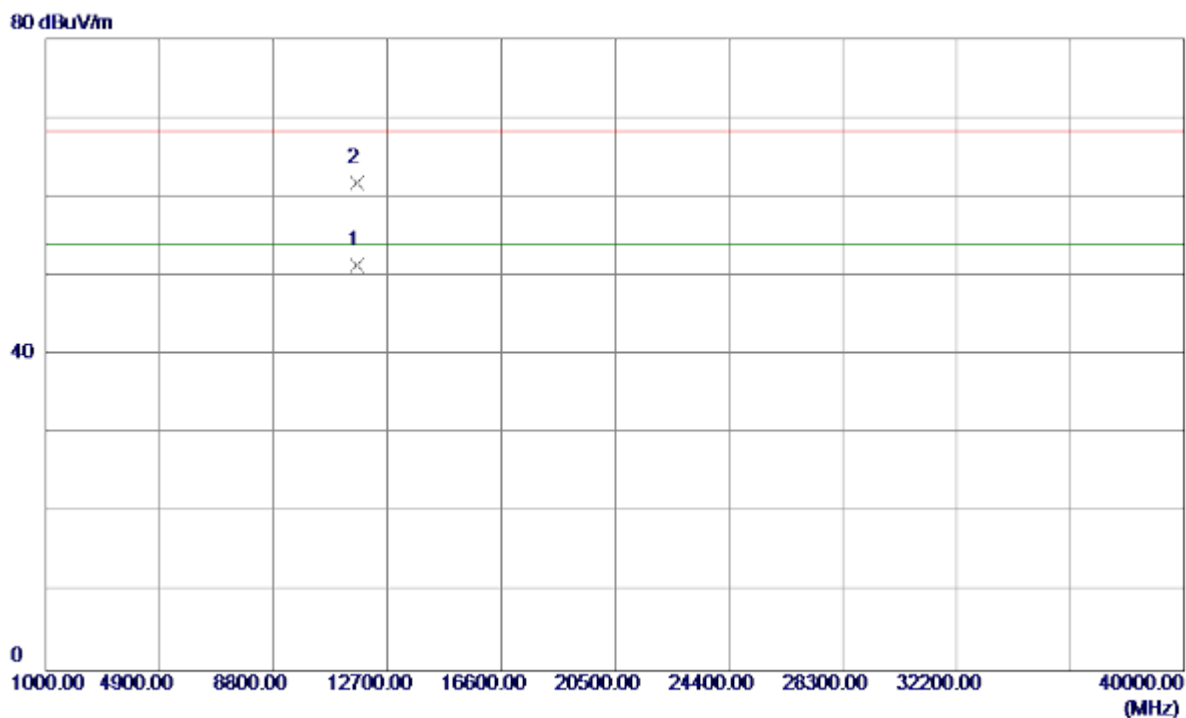
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5747.4000	23.99	40.71	64.70	78.30	-13.60	Peak	
2	5747.4000	12.52	40.71	53.23	68.30	-15.07	AVG	
3	5823.0000	61.72	41.09	102.81	68.30	34.51	AVG	No Limit
4 *	5830.6000	71.82	41.13	112.95	78.30	34.65	Peak	No Limit
5	5850.0000	36.26	41.23	77.49	78.30	-0.81	Peak	
6	5850.0000	20.20	41.23	61.43	68.30	-6.87	AVG	
7	5860.0000	25.30	41.28	66.58	78.30	-11.72	Peak	
8	5860.0000	12.66	41.28	53.94	68.30	-14.36	AVG	
9	5903.0000	25.34	41.50	66.84	68.30	-1.46	Peak	
10	5903.0000	13.88	41.50	55.38	68.30	-12.92	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

Horizontal

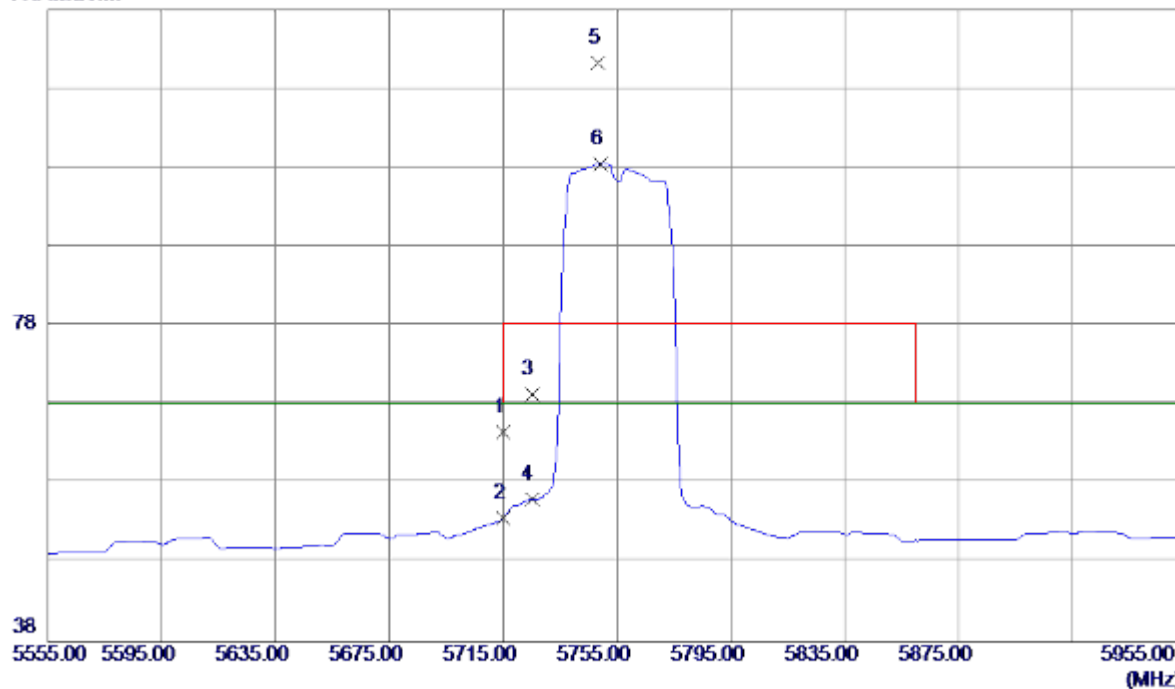


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11650.2200	34.17	17.17	51.34	54.00	-2.66	AVG	
2	11650.2200	44.53	17.17	61.70	68.30	-6.60	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

Vertical

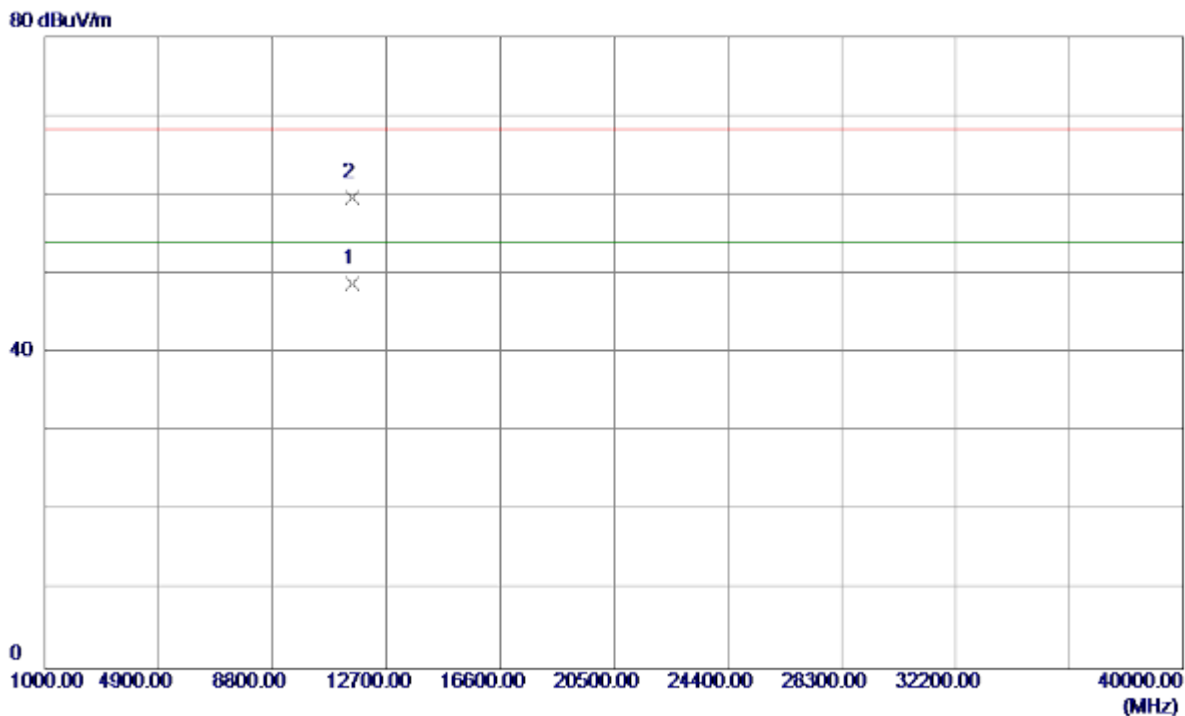
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	24.04	40.54	64.58	68.30	-3.72	Peak	
2	5715.0000	13.13	40.54	53.67	68.30	-14.63	AVG	
3	5725.0000	28.83	40.59	69.42	78.30	-8.88	Peak	
4	5725.0000	15.50	40.59	56.09	68.30	-12.21	AVG	
5 *	5748.2000	70.52	40.71	111.23	78.30	32.93	Peak	No Limit
6	5749.4000	57.81	40.72	98.53	68.30	30.23	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

Vertical

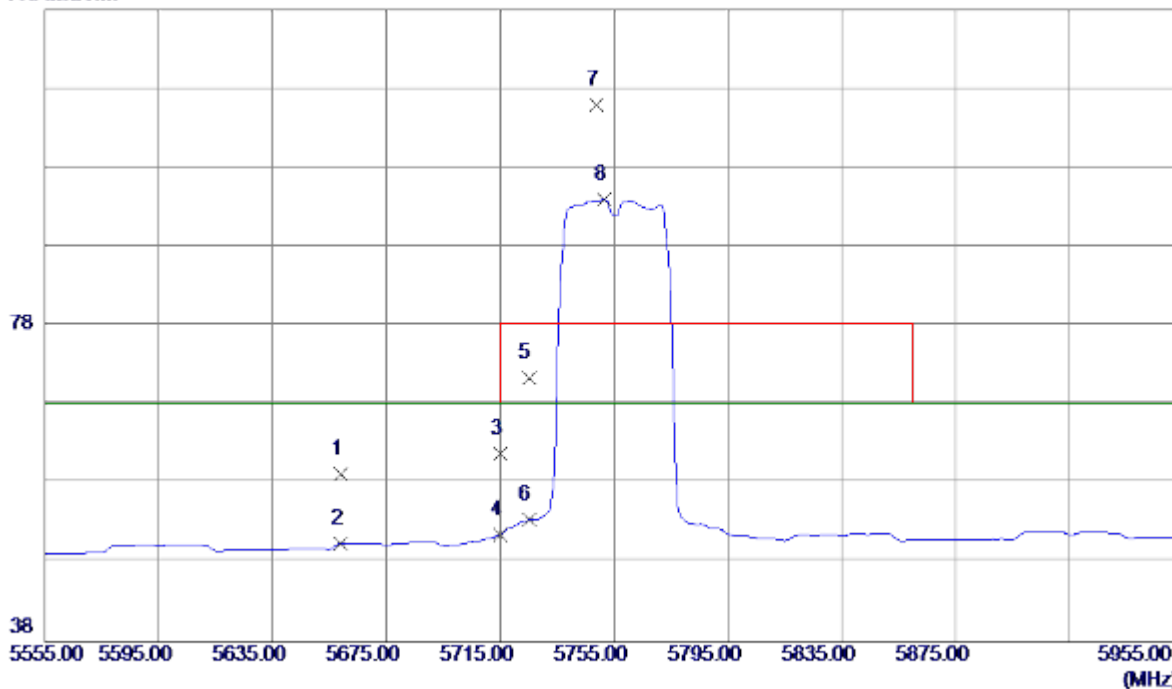


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11511.3200	31.86	16.95	48.81	54.00	-5.19	AVG	
2	11510.5400	42.76	16.95	59.71	68.30	-8.59	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

Horizontal

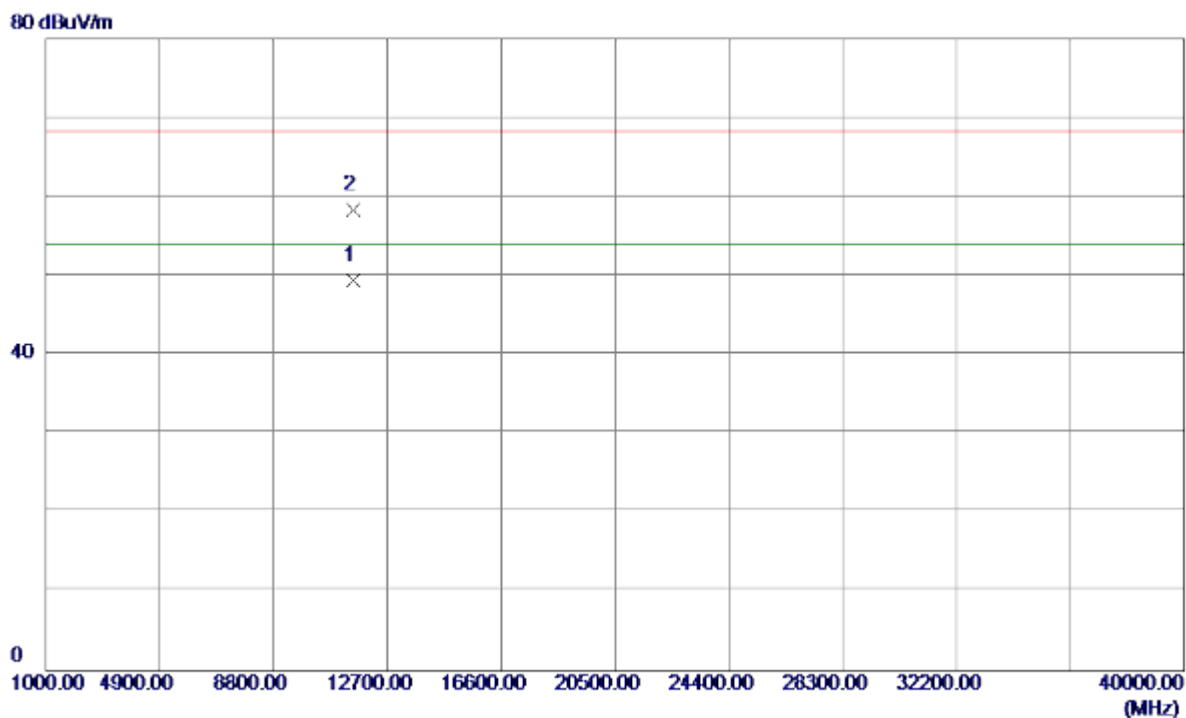
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5659.0000	19.01	40.25	59.26	68.30	-9.04	Peak	
2	5659.0000	10.25	40.25	50.50	68.30	-17.80	AVG	
3	5715.0000	21.34	40.54	61.88	68.30	-6.42	Peak	
4	5715.0000	11.07	40.54	51.61	68.30	-16.69	Peak	
5	5725.0000	30.88	40.59	71.47	78.30	-6.83	Peak	
6	5725.0000	12.86	40.59	53.45	68.30	-14.85	AVG	
7 *	5748.6000	65.26	40.71	105.97	78.30	27.67	Peak	No Limit
8	5751.4000	53.25	40.73	93.98	68.30	25.68	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

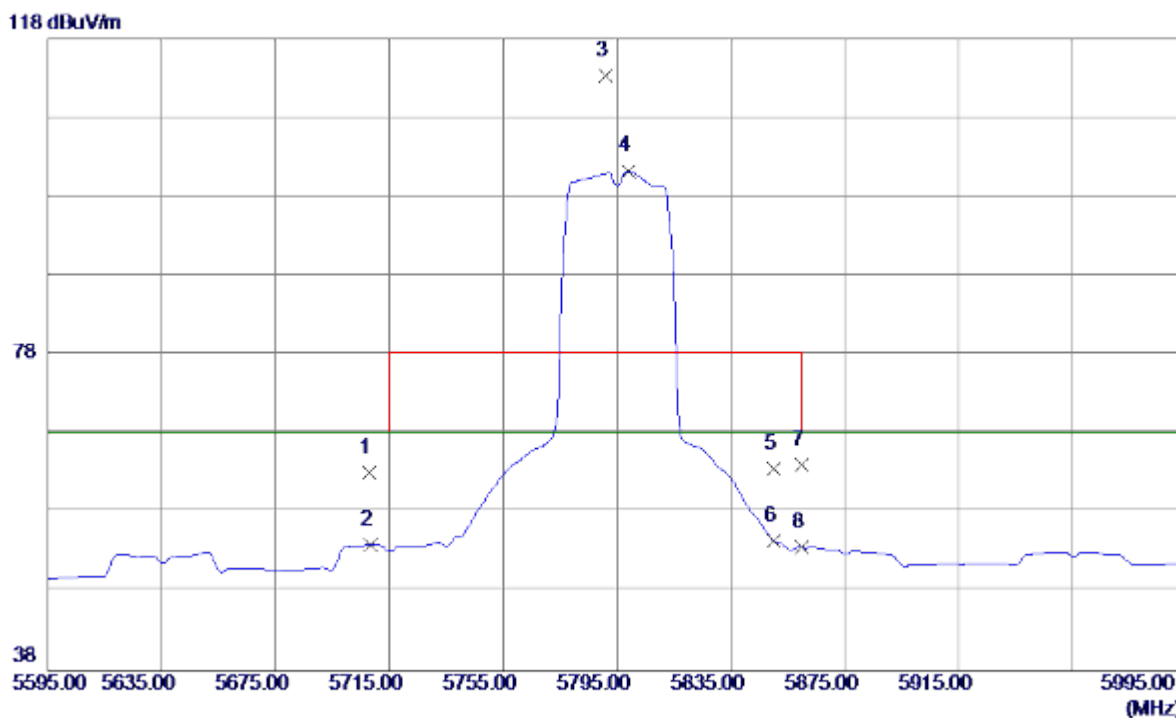
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11510.0100	32.52	16.95	49.47	54.00	-4.53	AVG	
2	11510.0100	41.40	16.95	58.35	68.30	-9.95	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

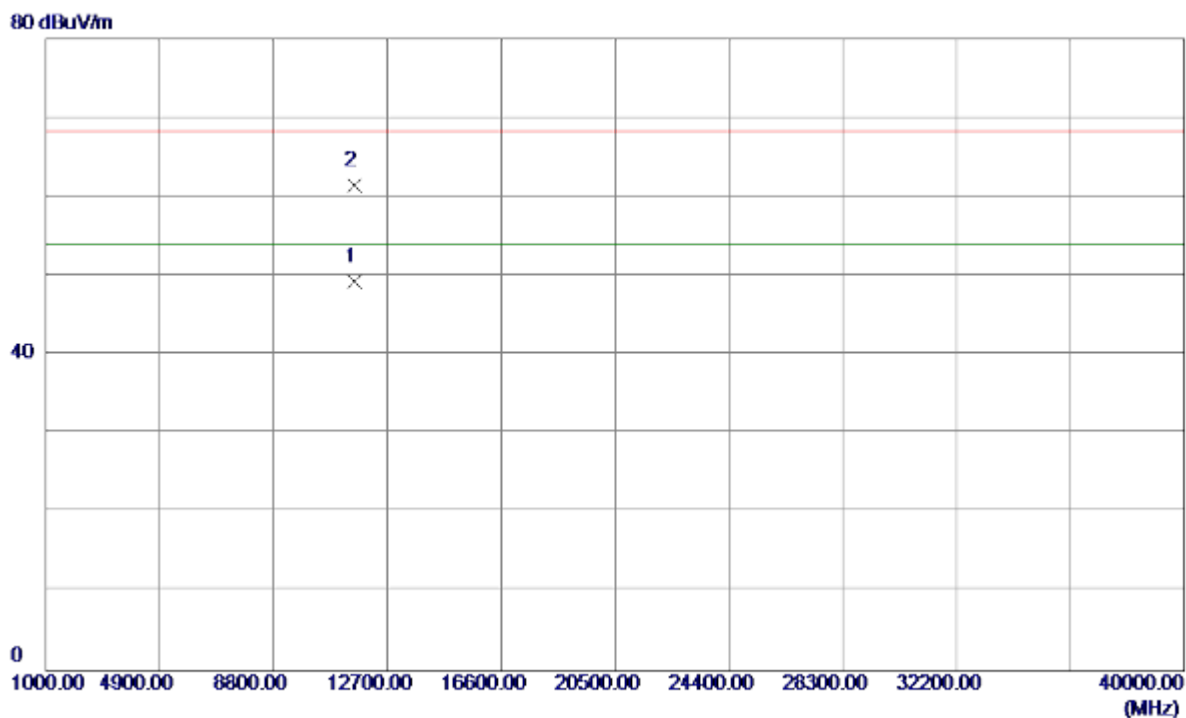
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5708.0000	22.61	40.50	63.11	68.30	-5.19	Peak	
2	5708.2000	13.49	40.51	54.00	68.30	-14.30	AVG	
3 *	5791.0000	72.48	40.93	113.41	78.30	35.11	Peak	No Limit
4	5799.0000	60.31	40.97	101.28	68.30	32.98	AVG	No Limit
5	5850.0000	22.43	41.23	63.66	78.30	-14.64	Peak	
6	5850.0000	13.20	41.23	54.43	68.30	-13.87	AVG	
7	5860.0000	22.76	41.28	64.04	78.30	-14.26	Peak	
8	5860.0000	12.35	41.28	53.63	68.30	-14.67	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

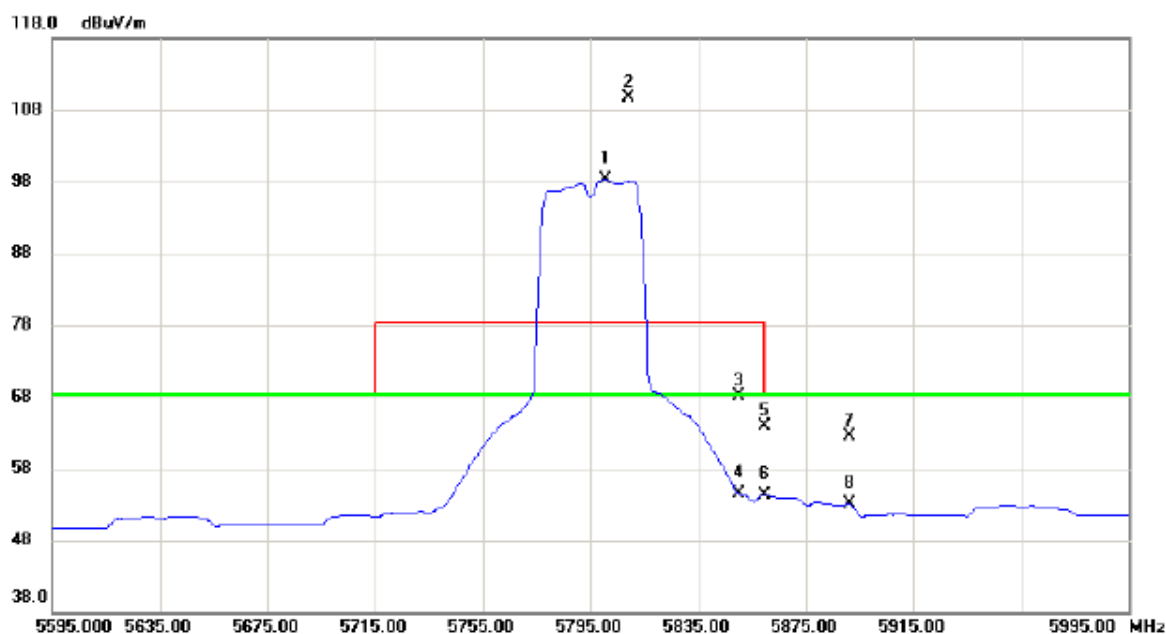
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11591.3200	32.13	17.08	49.21	54.00	-4.79	AVG	
2	11591.1300	44.29	17.08	61.37	68.30	-6.93	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

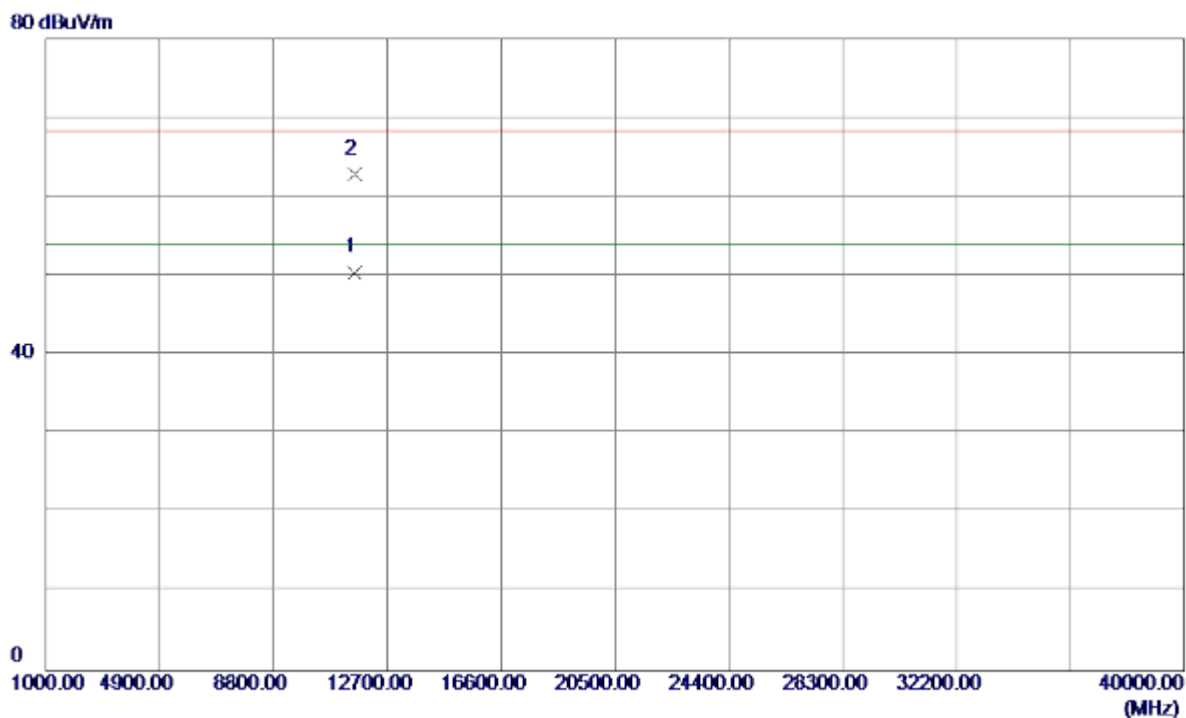
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	X	5800.600	57.27	40.98	98.25	68.30	29.95	AVG	No Limit
2	*	5809.000	68.78	41.02	109.80	78.30	31.50	peak	No Limit
3		5850.000	26.91	41.23	68.14	78.30	-10.16	peak	
4		5850.000	13.31	41.23	54.54	68.30	-13.76	AVG	
5		5860.000	22.70	41.29	63.99	68.30	-4.31	peak	
6		5860.000	13.00	41.29	54.29	68.30	-14.01	AVG	
7		5891.000	21.16	41.44	62.60	68.30	-5.70	peak	
8		5891.000	11.59	41.44	53.03	68.30	-15.27	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

Horizontal

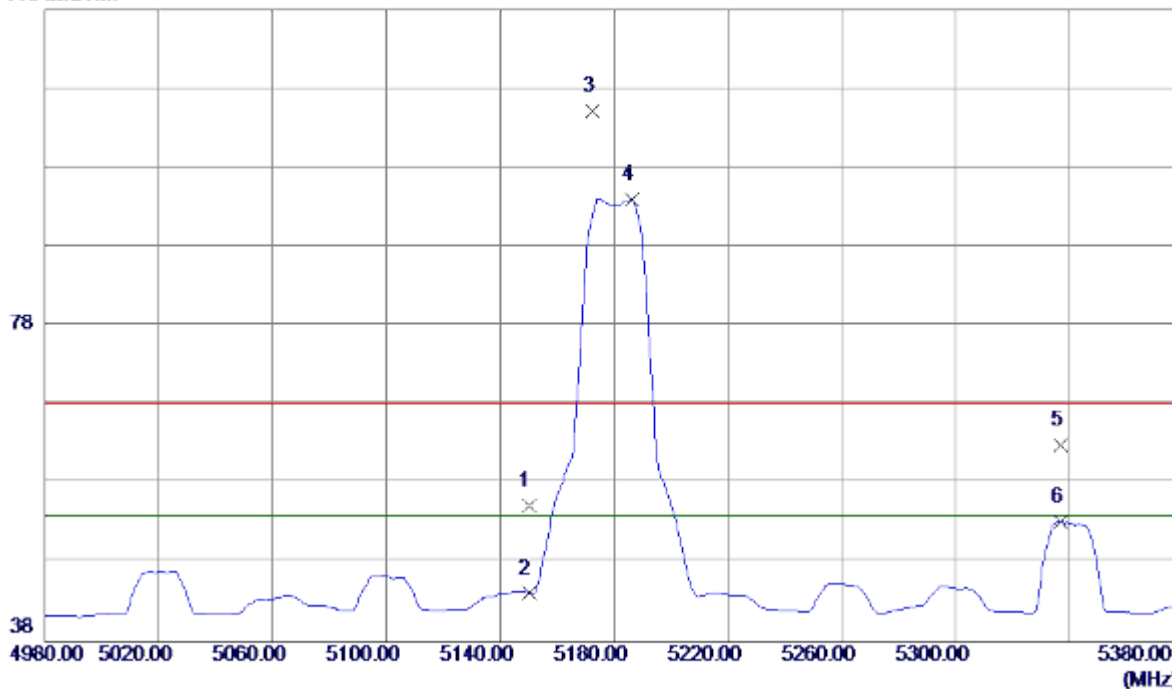


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11591.3300	33.40	17.08	50.48	54.00	-3.52	AVG	
2	11591.1200	45.78	17.08	62.86	68.30	-5.44	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180MHz

Vertical

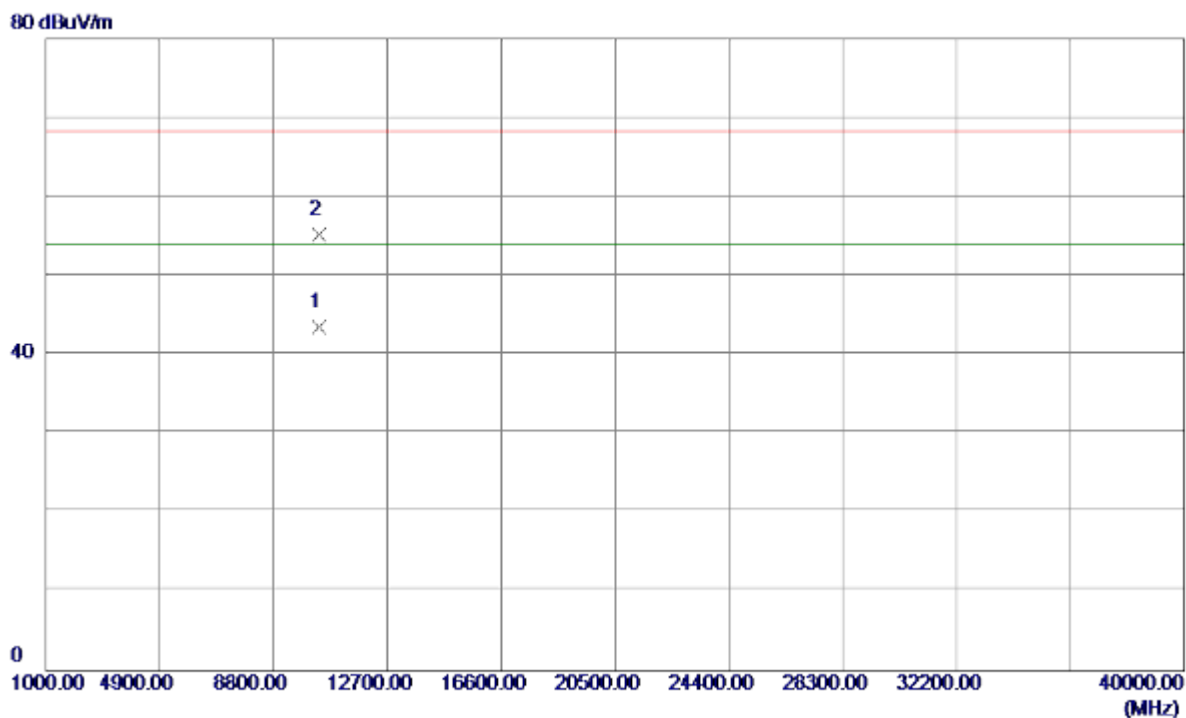
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	15.02	40.22	55.24	68.30	-13.06	Peak	
2	5150.0000	3.94	40.22	44.16	54.00	-9.84	AVG	
3	5172.4000	64.90	40.27	105.17	68.30	36.87	Peak	No Limit
4 *	5186.4000	53.77	40.30	94.07	54.00	40.07	AVG	No Limit
5	5336.8000	22.42	40.61	63.03	68.30	-5.27	Peak	
6	5336.8000	12.63	40.61	53.24	54.00	-0.76	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180MHz

Vertical

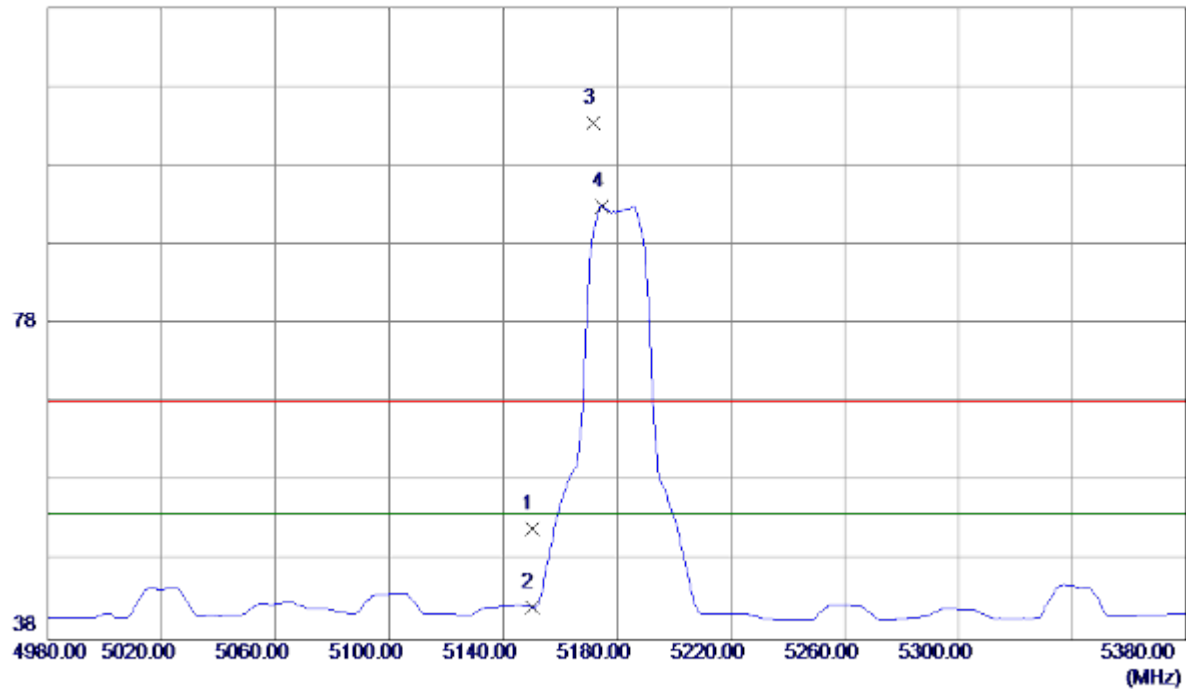


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10360.0900	29.61	13.86	43.47	54.00	-10.53	AVG	
2	10360.1600	41.38	13.86	55.24	68.30	-13.06	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180MHz

Horizontal

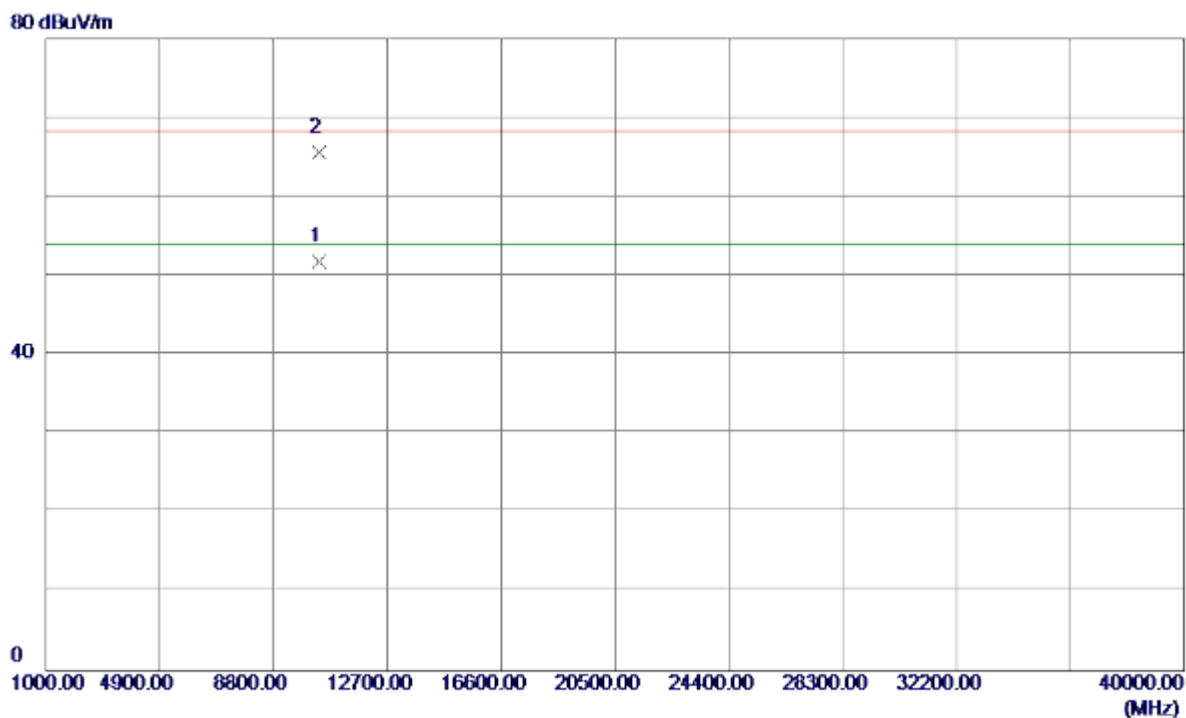
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	11.89	40.22	52.11	68.30	-16.19	Peak	
2	5150.0000	1.99	40.22	42.21	54.00	-11.79	AVG	
3	5171.6000	63.24	40.26	103.50	68.30	35.20	Peak	No Limit
4 *	5174.8000	52.69	40.27	92.96	54.00	38.96	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180MHz

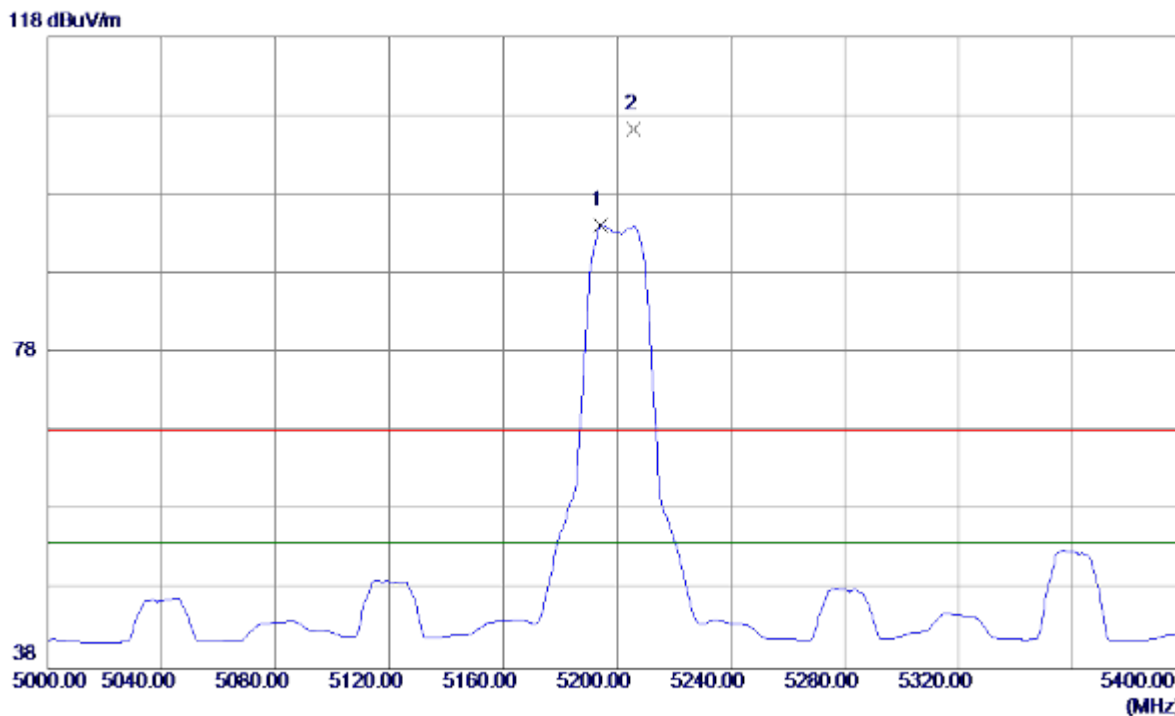
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10361.3500	37.92	13.85	51.77	54.00	-2.23	AVG	
2	10361.1400	51.74	13.86	65.60	68.30	-2.70	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200MHz

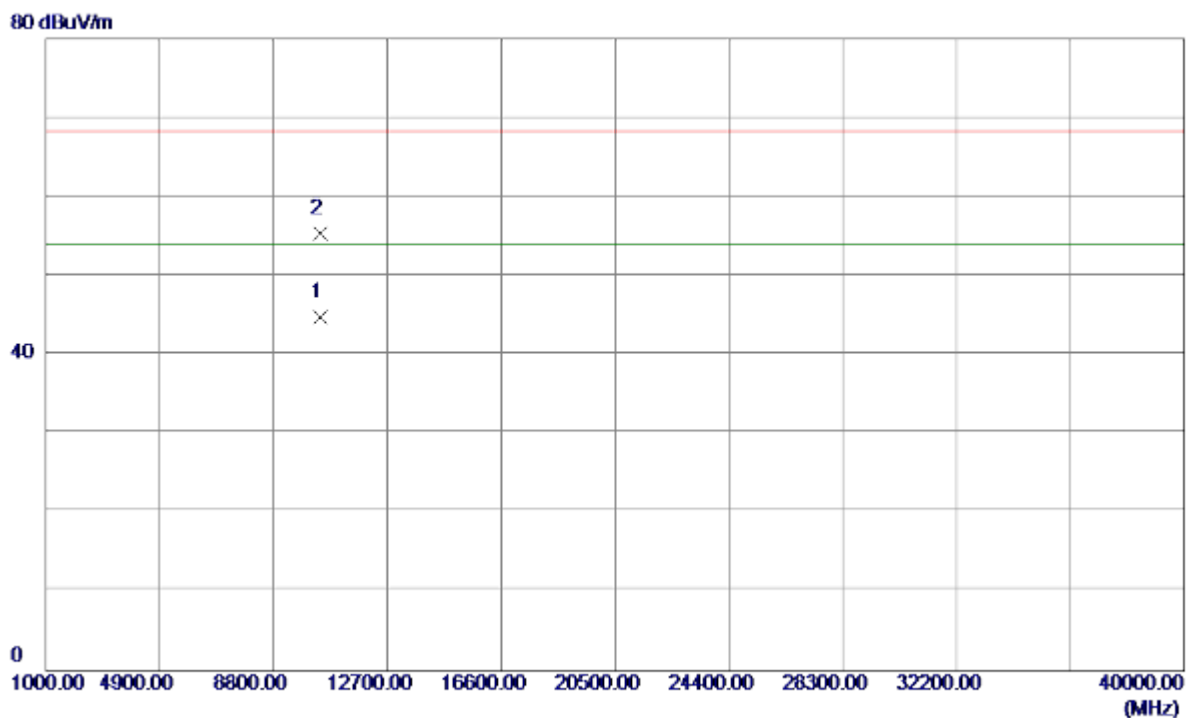
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5194.4000	53.88	40.31	94.19	54.00	40.19	AVG	No Limit
2	5206.0000	65.99	40.34	106.33	68.30	38.03	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200MHz

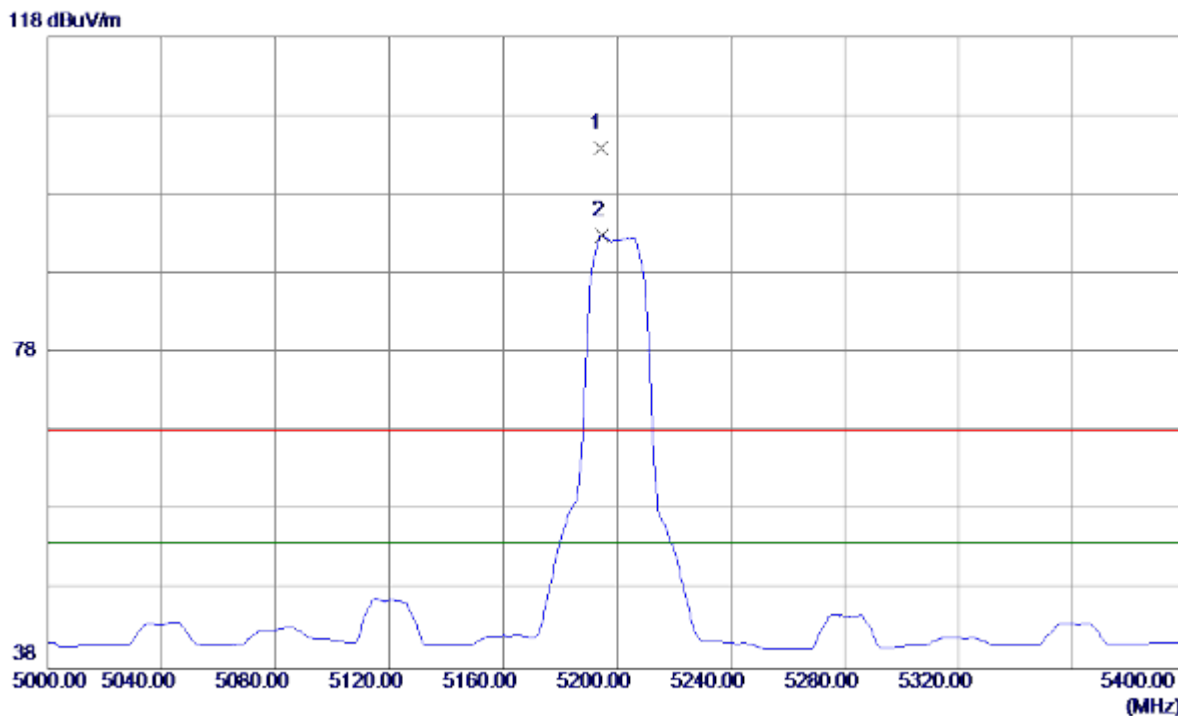
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10400.0700	30.96	13.80	44.76	54.00	-9.24	AVG	
2	10400.3500	41.60	13.80	55.40	68.30	-12.90	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200MHz

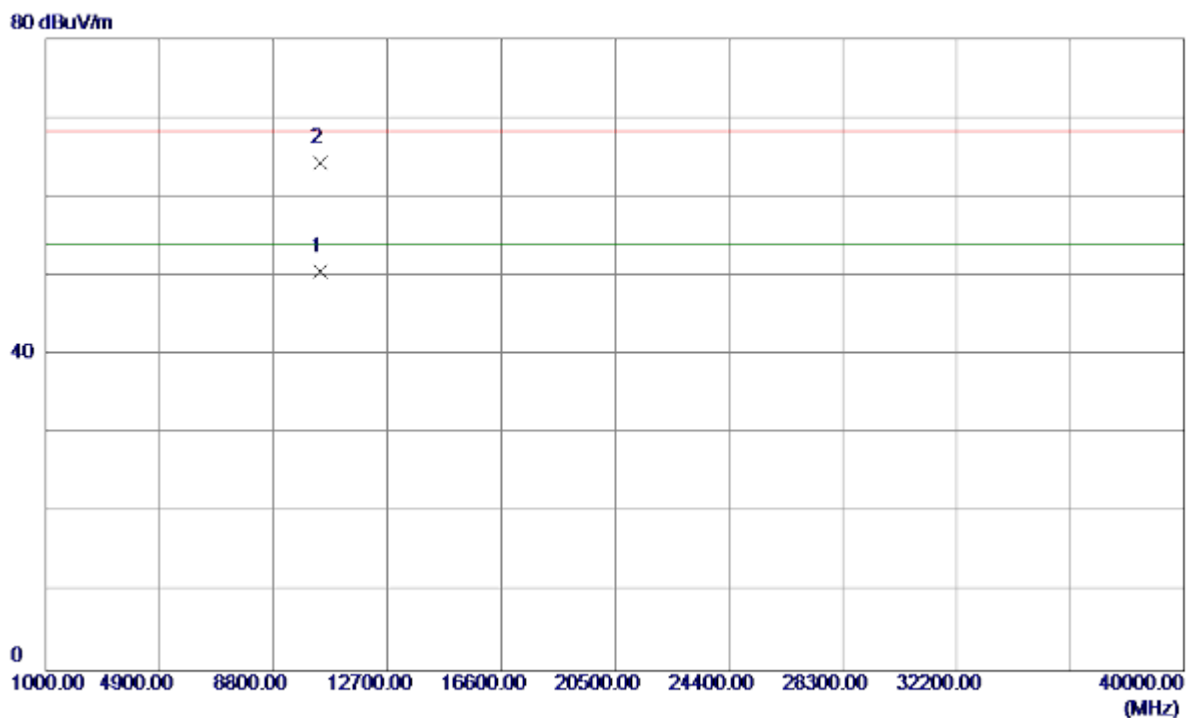
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5194.0000	63.63	40.31	103.94	68.30	35.64	Peak	No Limit
2 *	5194.8000	52.64	40.31	92.95	54.00	38.95	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5200MHz

Horizontal

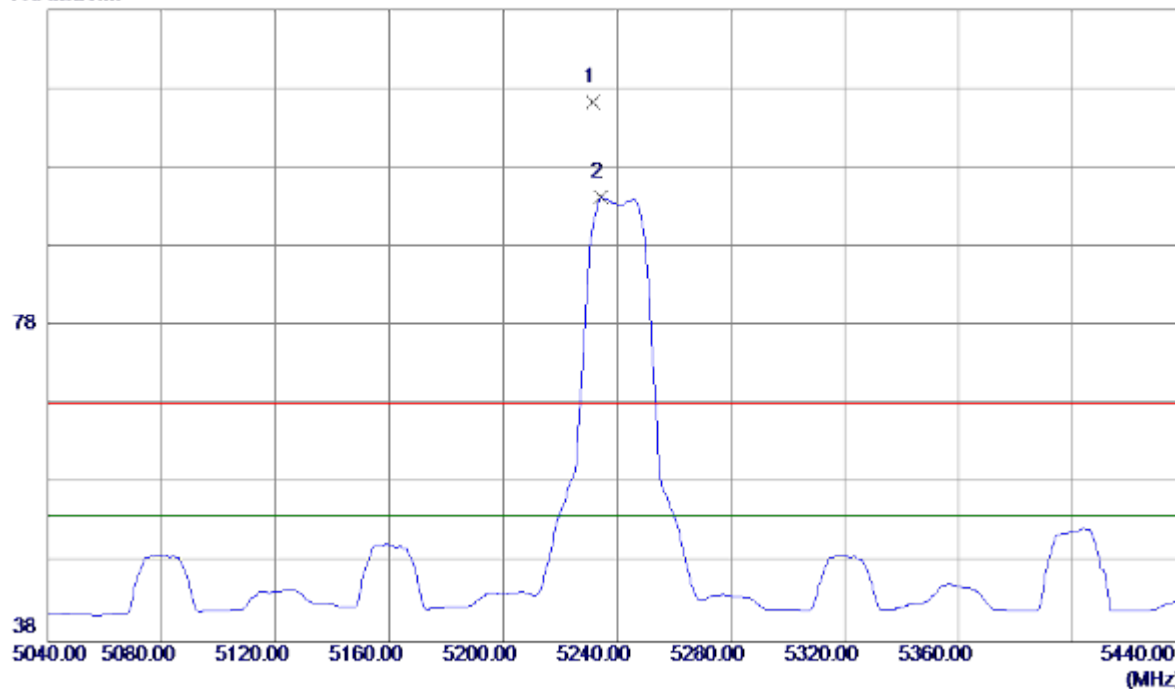


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10401.3400	36.81	13.80	50.61	54.00	-3.39	AVG	
2	10401.2000	50.56	13.80	64.36	68.30	-3.94	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240MHz

Vertical

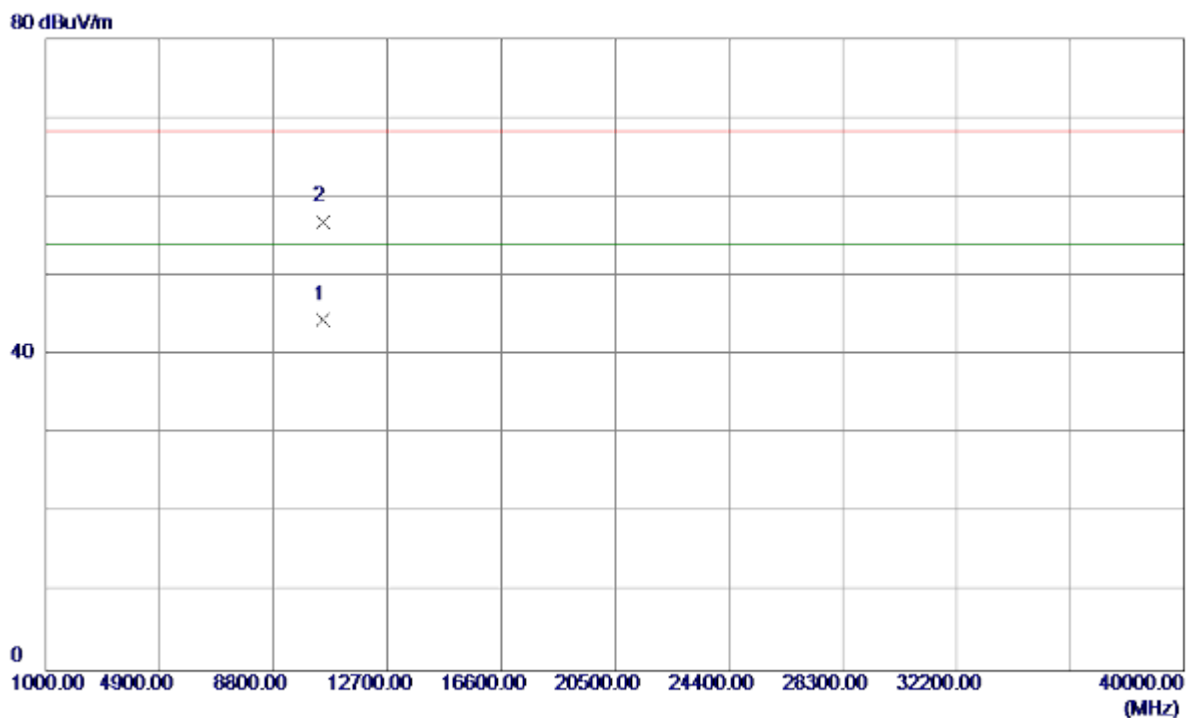
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5231.6000	65.95	40.39	106.34	68.30	38.04	Peak	No Limit
2 *	5234.4000	53.87	40.40	94.27	54.00	40.27	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240MHz

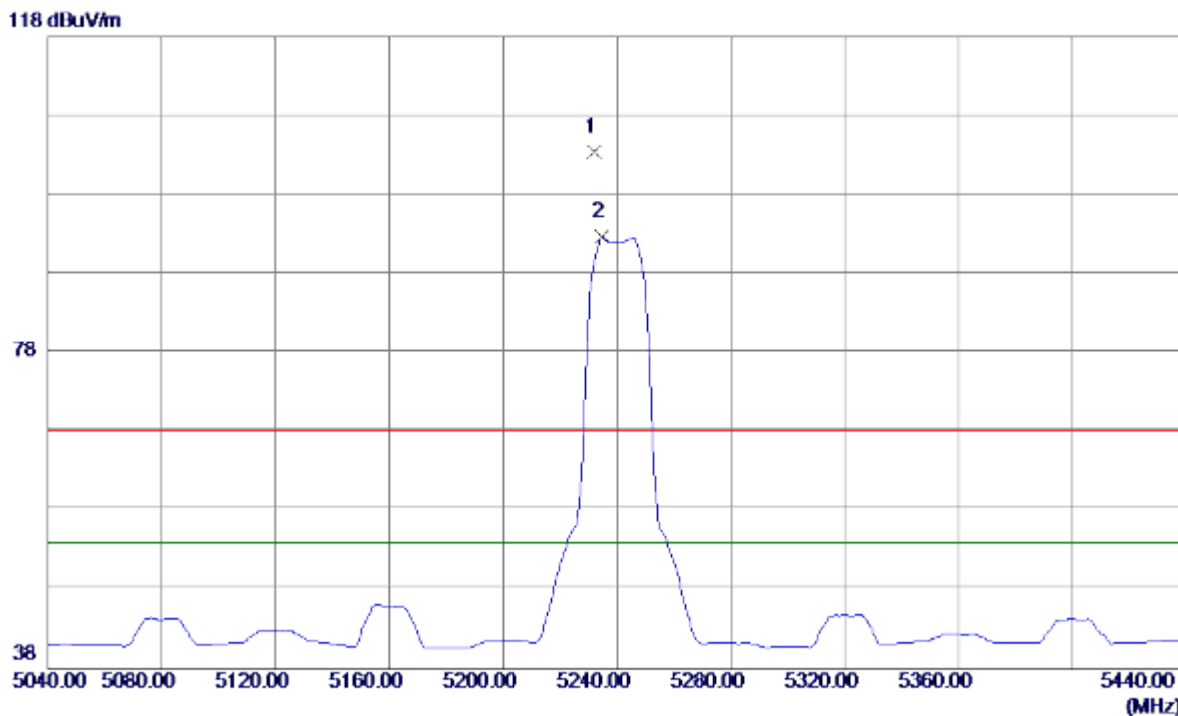
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10480.1000	30.81	13.69	44.50	54.00	-9.50	AVG	
2	10480.2800	43.19	13.69	56.88	68.30	-11.42	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240MHz

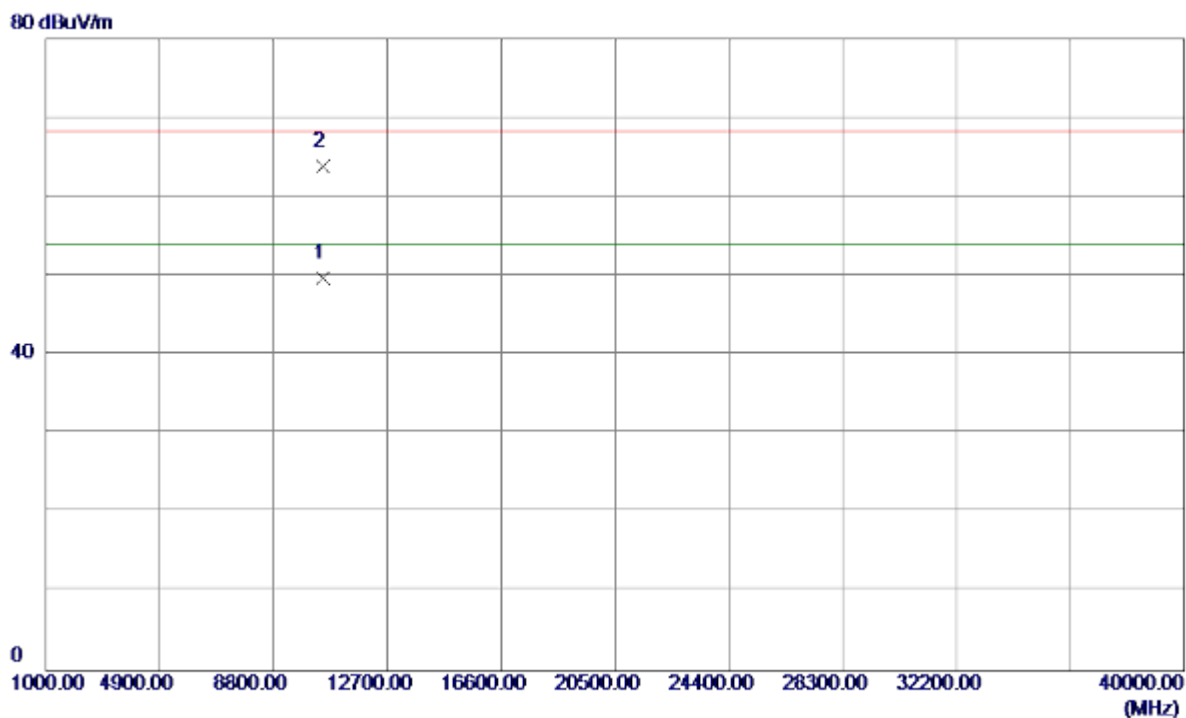
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5232.0000	63.08	40.39	103.47	68.30	35.17	Peak	No Limit
2 *	5234.8000	52.25	40.40	92.65	54.00	38.65	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5240MHz

Horizontal

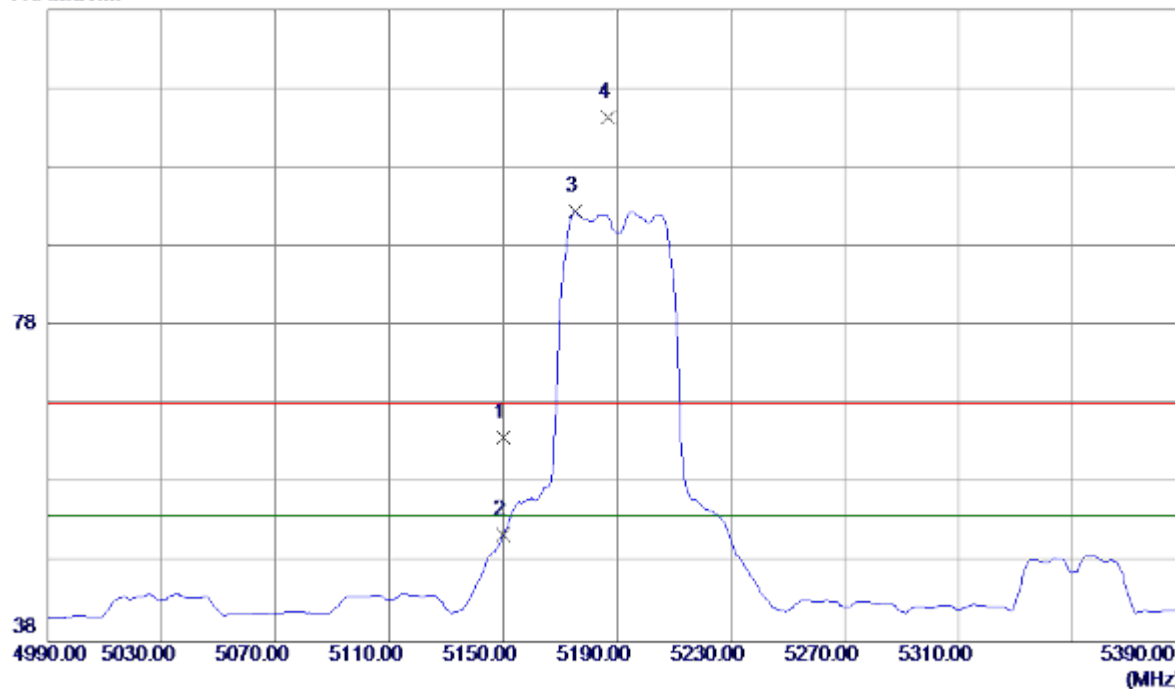


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10481.3150	36.05	13.69	49.74	54.00	-4.26	AVG	
2	10481.0400	50.18	13.69	63.87	68.30	-4.43	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

Vertical

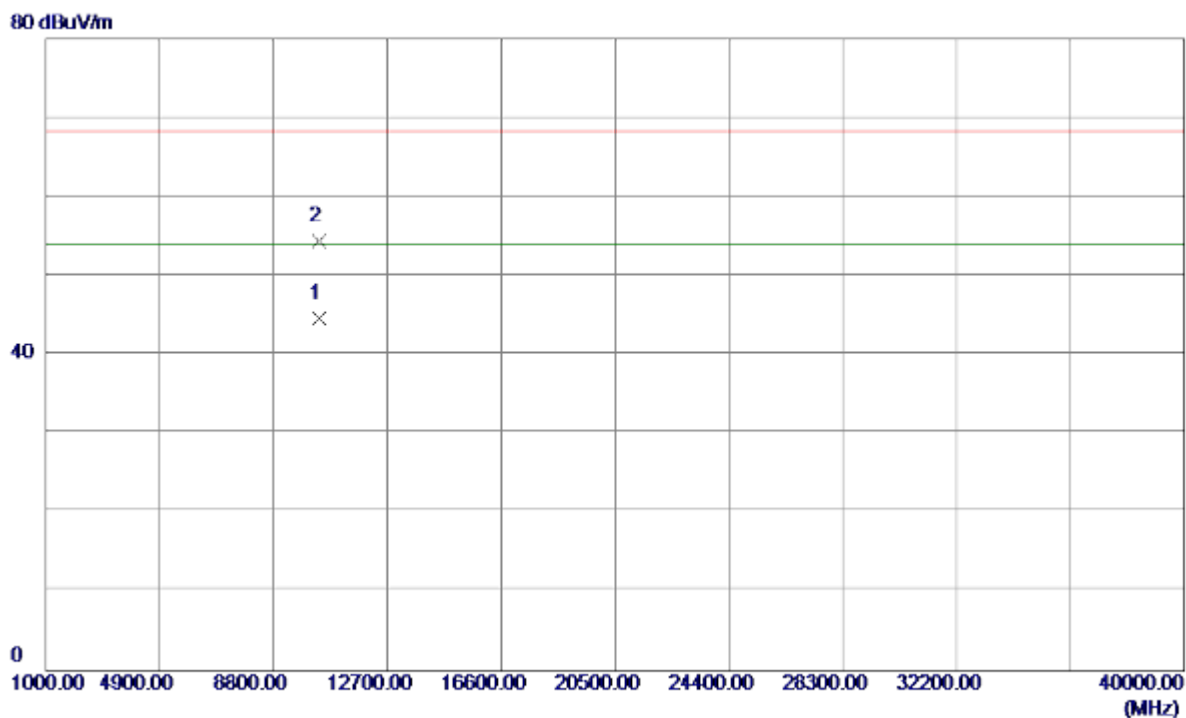
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	23.73	40.22	63.95	68.30	-4.35	Peak	
2	5150.0000	11.36	40.22	51.58	54.00	-2.42	AVG	
3 *	5175.2000	52.23	40.27	92.50	54.00	38.50	AVG	No Limit
4	5186.8000	64.17	40.30	104.47	68.30	36.17	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

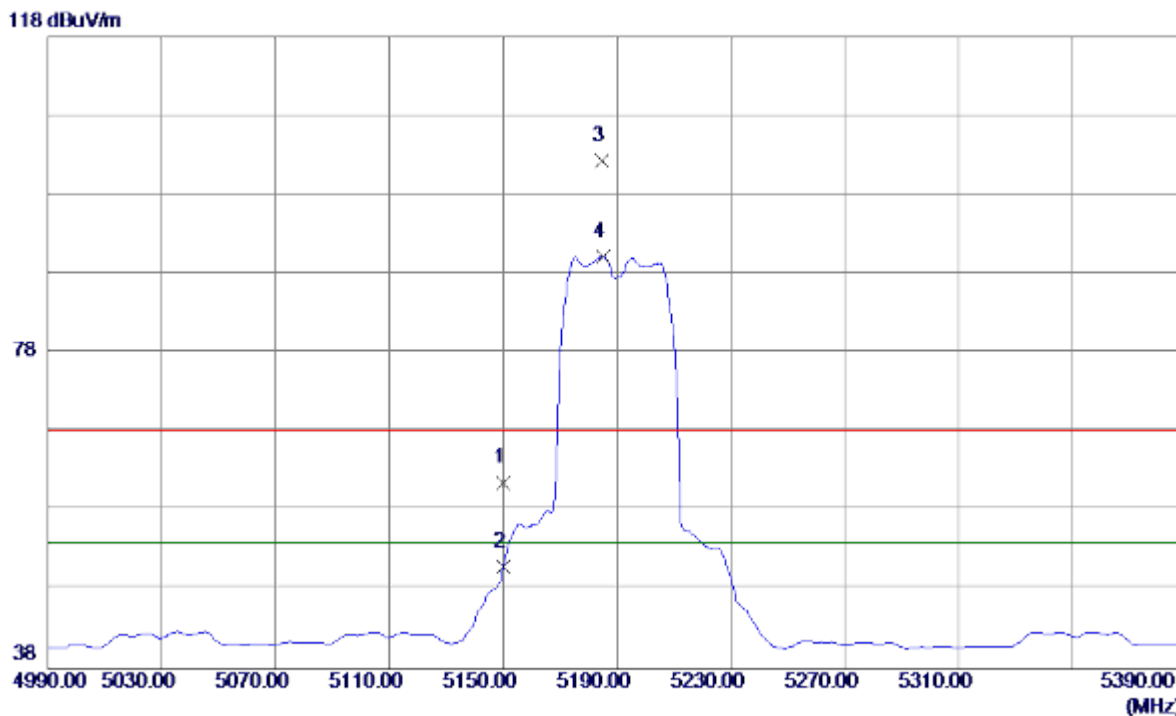
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10380.0800	30.81	13.83	44.64	54.00	-9.36	AVG	
2	10380.2000	40.51	13.83	54.34	68.30	-13.96	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

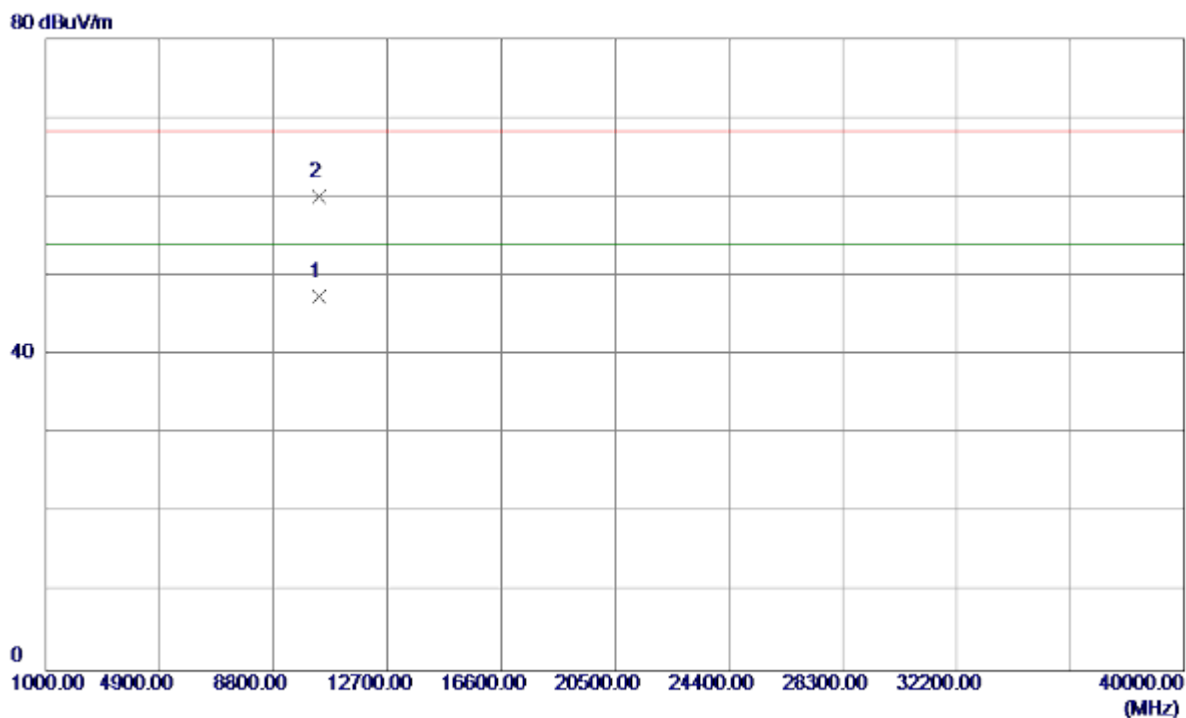
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	21.38	40.22	61.60	68.30	-6.70	Peak	
2	5150.0000	10.79	40.22	51.01	54.00	-2.99	AVG	
3	5184.8000	61.98	40.29	102.27	68.30	33.97	Peak	No Limit
4 *	5185.2000	49.94	40.29	90.23	54.00	36.23	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

Horizontal

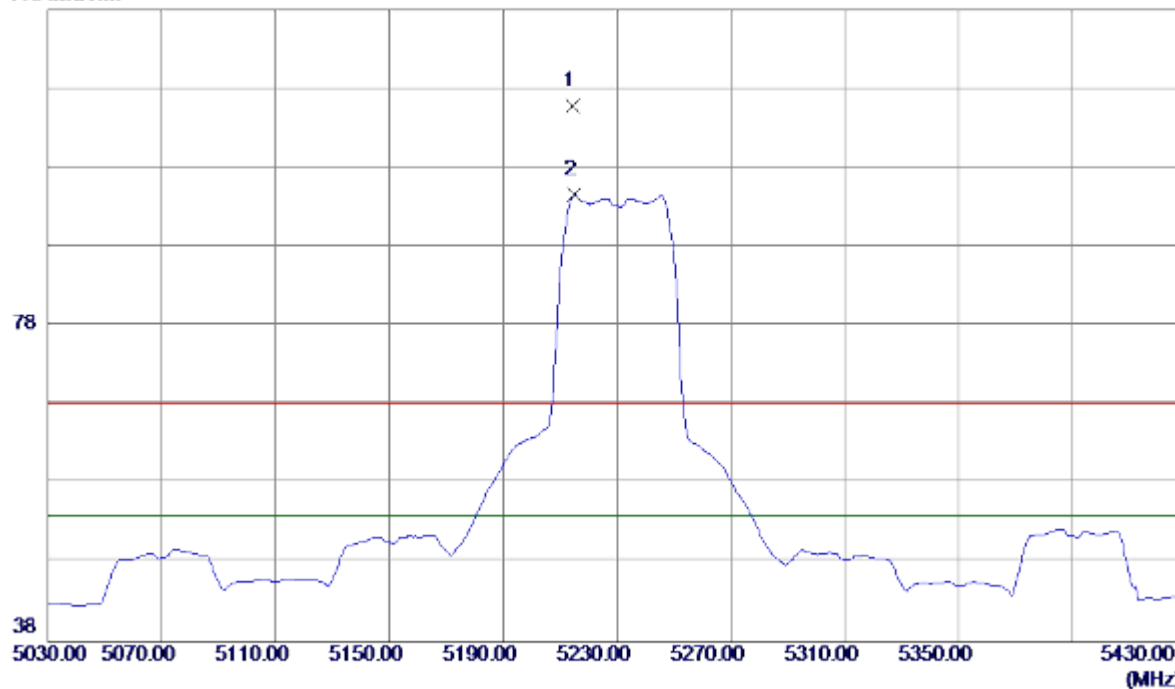


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10381.3550	33.59	13.83	47.42	54.00	-6.58	AVG	
2	10381.3000	46.12	13.83	59.95	68.30	-8.35	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

Vertical

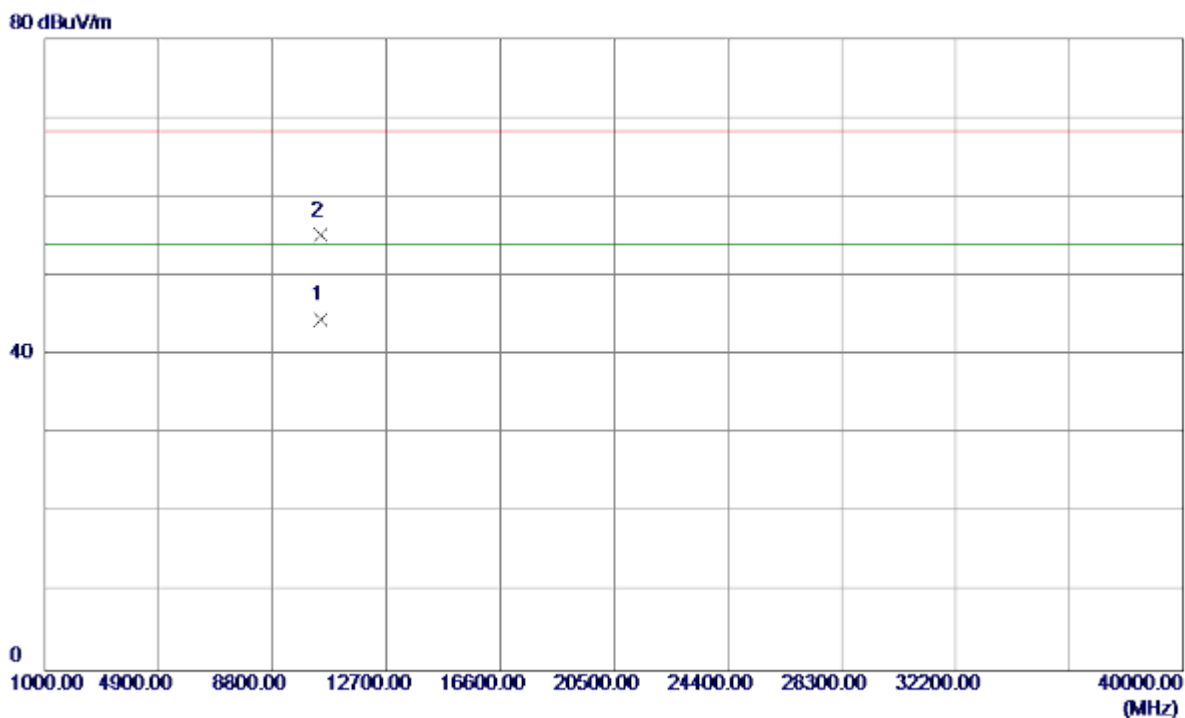
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5214.4000	65.55	40.35	105.90	68.30	37.60	Peak	No Limit
2 *	5214.8000	54.25	40.36	94.61	54.00	40.61	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

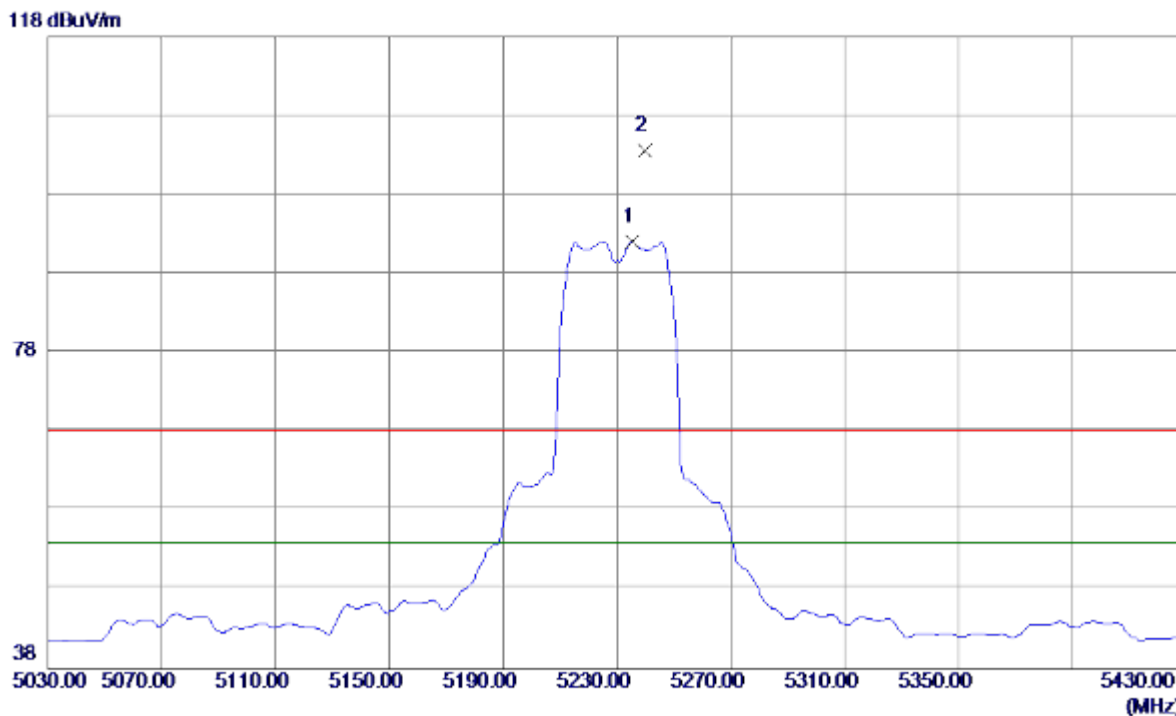
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10460.0800	30.73	13.72	44.45	54.00	-9.55	AVG	
2	10459.9700	41.40	13.72	55.12	68.30	-13.18	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

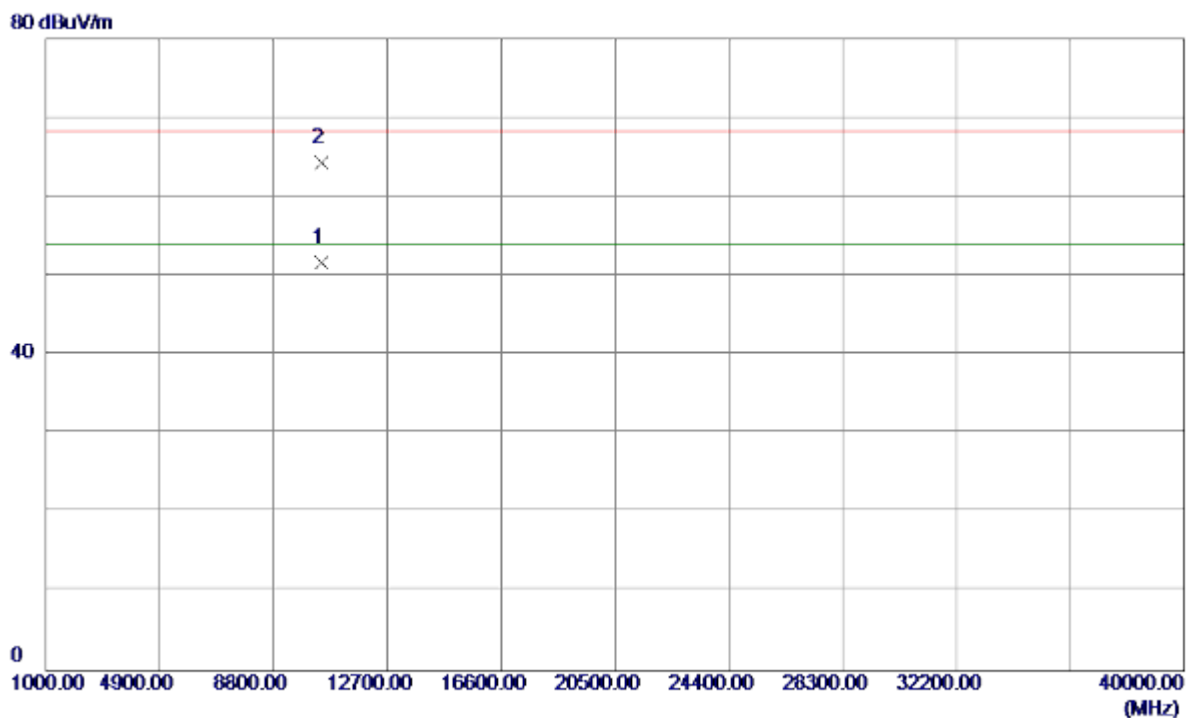
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	5235.2000	51.66	40.40	92.06	54.00	38.06	AVG	No Limit
2	5239.6000	63.16	40.41	103.57	68.30	35.27	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

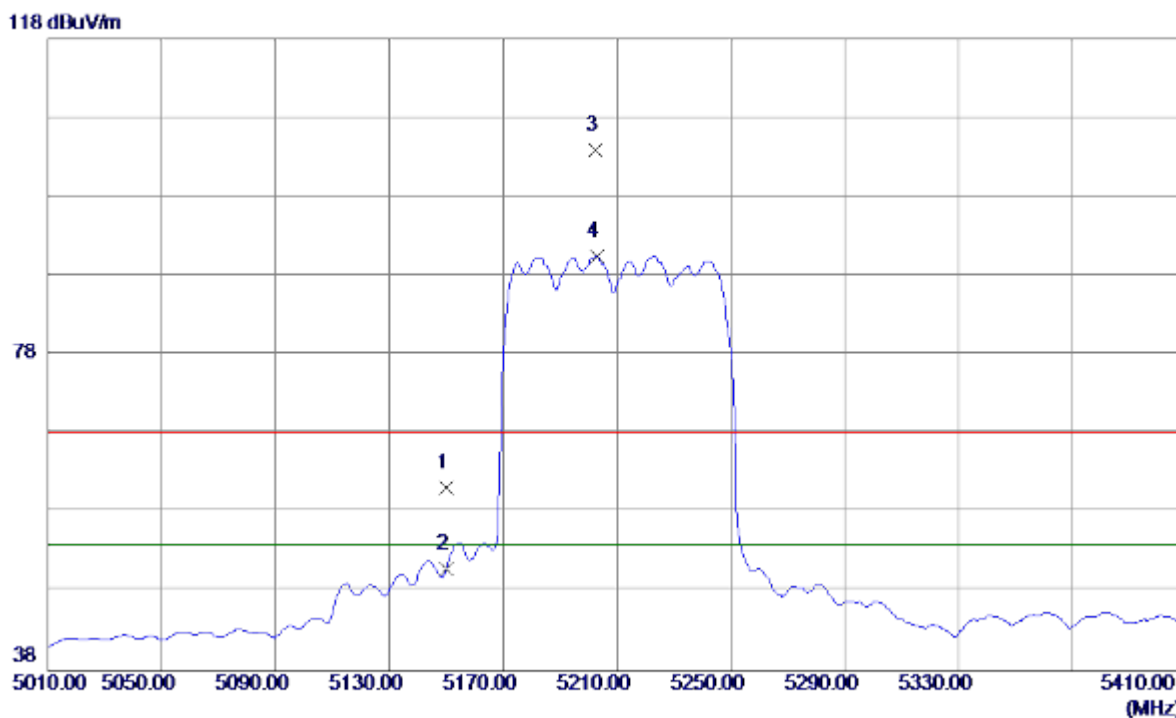
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10461.3949	37.95	13.72	51.67	54.00	-2.33	AVG	
2	10461.4800	50.60	13.72	64.32	68.30	-3.98	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

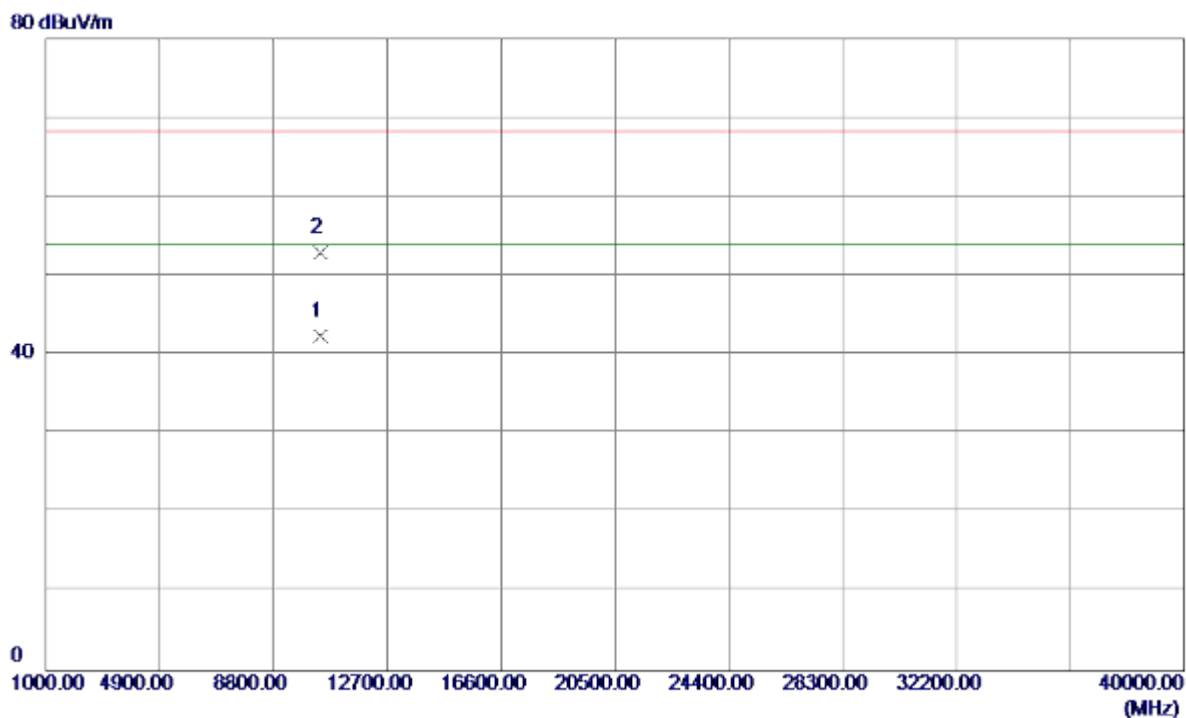
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	20.98	40.22	61.20	68.30	-7.10	Peak	
2	5150.0000	10.81	40.22	51.03	54.00	-2.97	AVG	
3	5202.4000	63.55	40.33	103.88	68.30	35.58	Peak	No Limit
4 *	5202.8000	50.14	40.33	90.47	54.00	36.47	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

Vertical

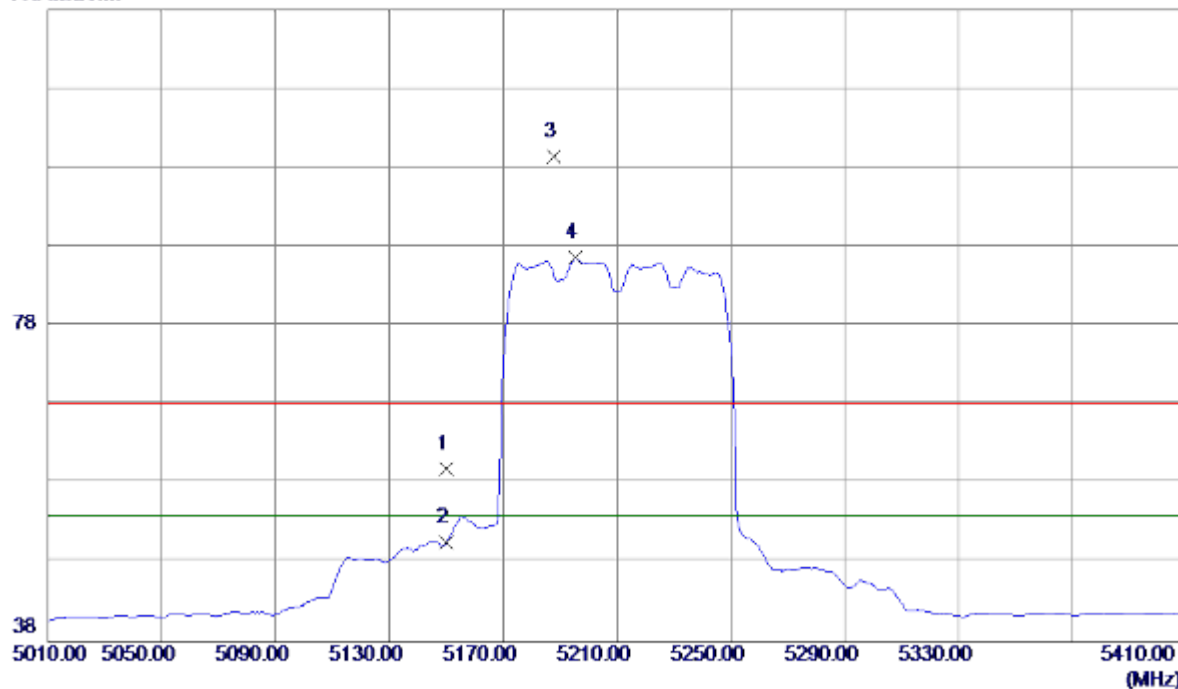


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10420.3850	28.69	13.77	42.46	54.00	-11.54	AVG	
2	10420.6500	39.16	13.77	52.93	68.30	-15.37	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

Horizontal

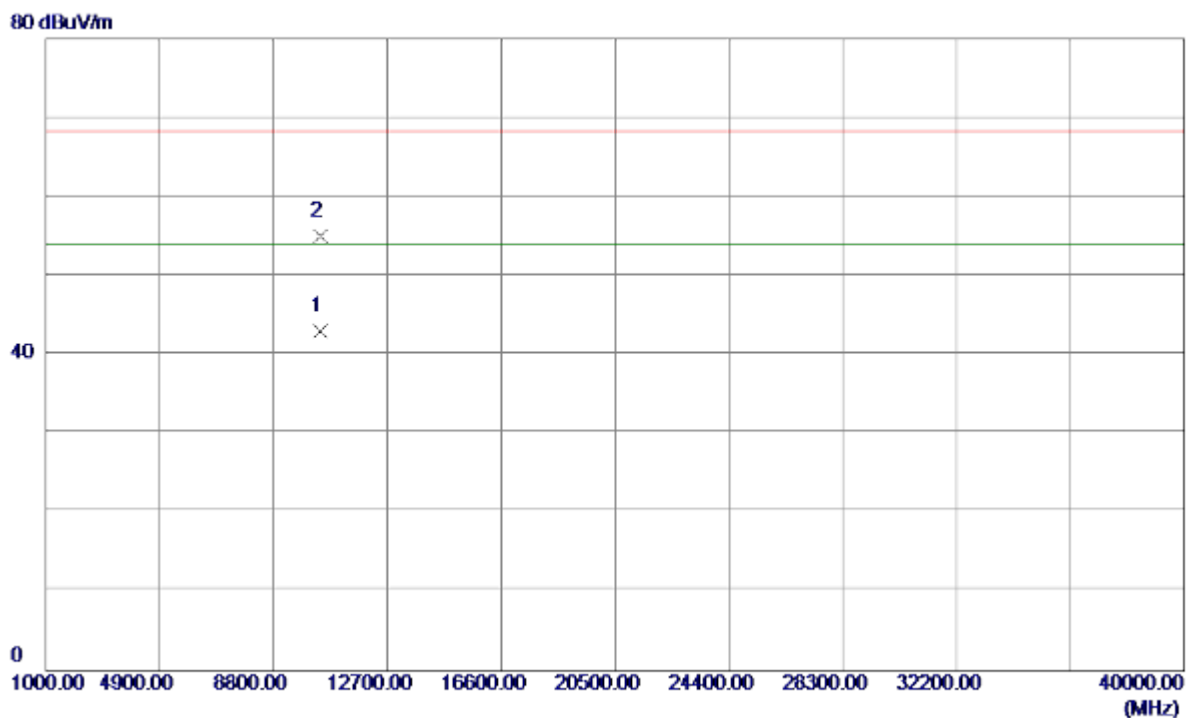
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5150.0000	19.66	40.22	59.88	68.30	-8.42	Peak	
2	5150.0000	10.43	40.22	50.65	54.00	-3.35	AVG	
3	5187.6000	59.19	40.30	99.49	68.30	31.19	Peak	No Limit
4 *	5195.2000	46.27	40.31	86.58	54.00	32.58	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

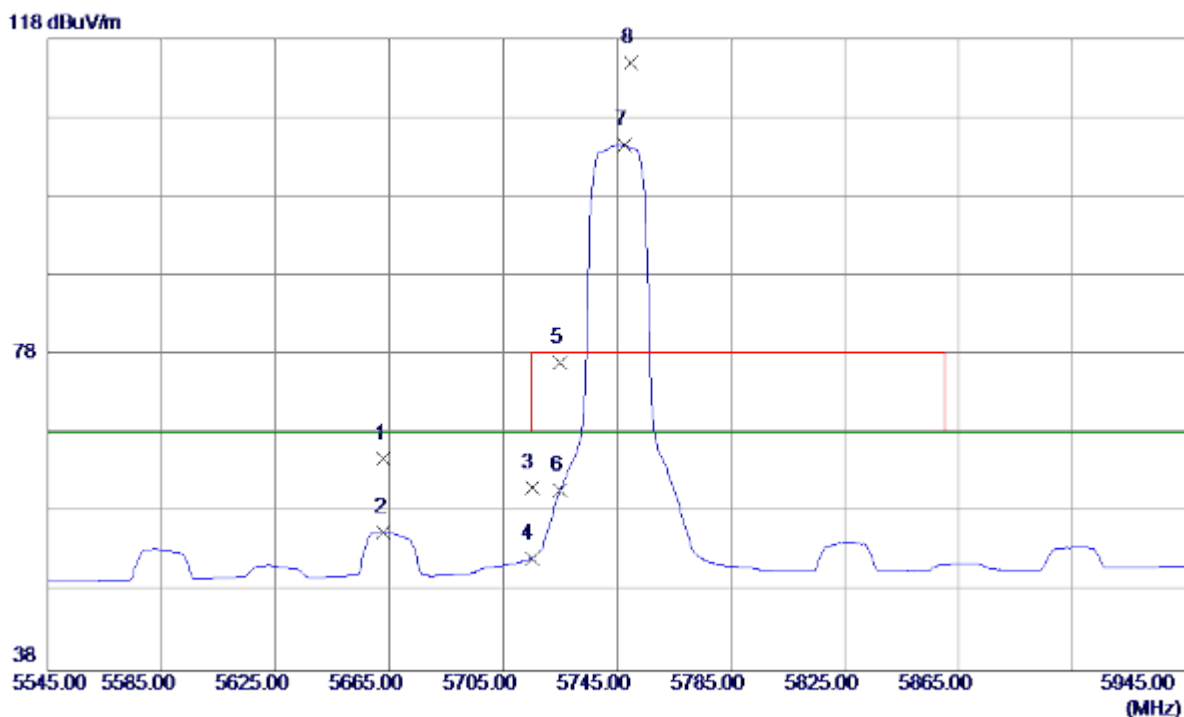
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	10420.9450	29.24	13.77	43.01	54.00	-10.99	AVG	
2	10420.3850	41.31	13.77	55.08	68.30	-13.22	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745MHz

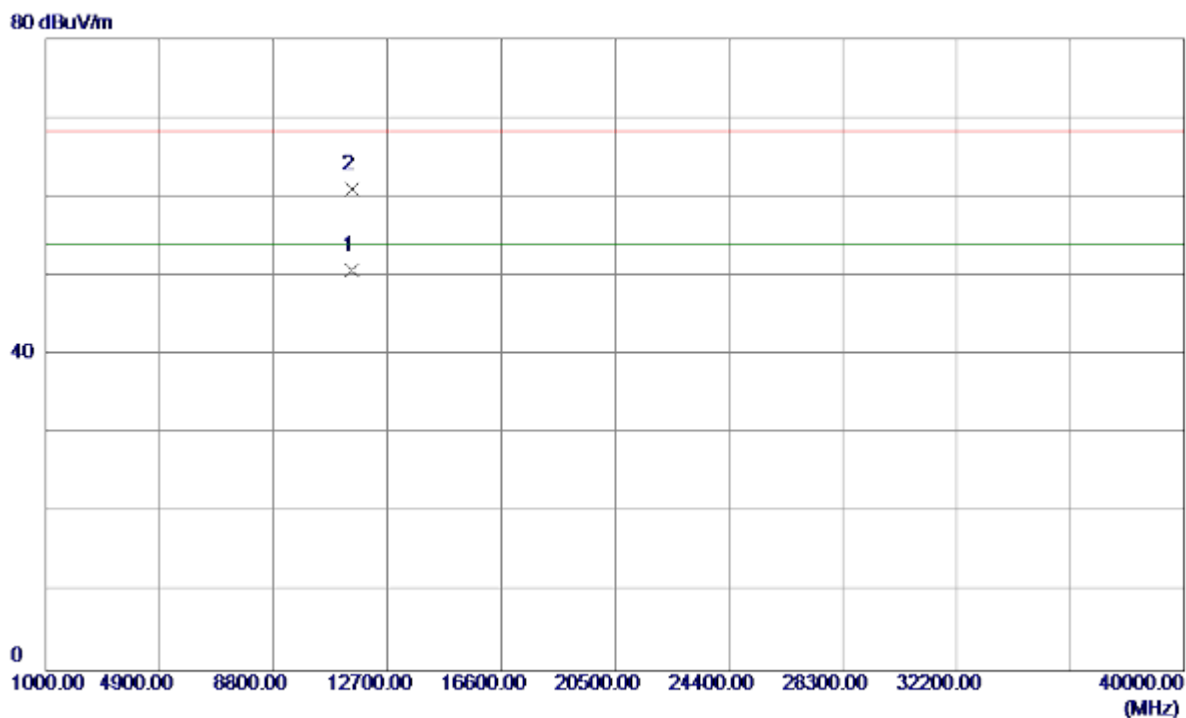
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5663.0000	24.58	40.27	64.85	68.30	-3.45	Peak	
2	5663.0000	15.30	40.27	55.57	68.30	-12.73	AVG	
3	5715.0000	20.71	40.54	61.25	68.30	-7.05	Peak	
4	5715.0000	11.77	40.54	52.31	68.30	-15.99	AVG	
5	5725.0000	36.46	40.59	77.05	78.30	-1.25	Peak	
6	5725.0000	20.33	40.59	60.92	68.30	-7.38	AVG	
7	5747.8000	63.91	40.71	104.62	68.30	36.32	AVG	No Limit
8 *	5749.8000	74.19	40.72	114.91	78.30	36.61	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745MHz

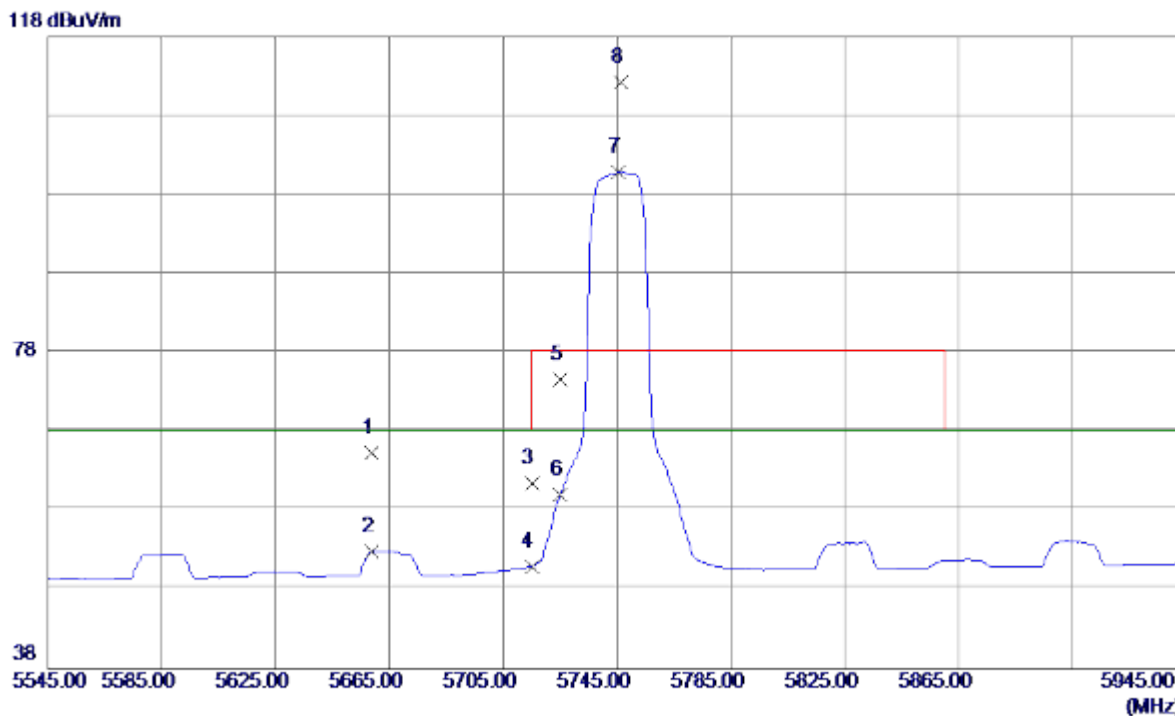
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11491.3900	33.77	16.91	50.68	54.00	-3.32	AVG	
2	11491.3900	44.03	16.91	60.94	68.30	-7.36	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745MHz

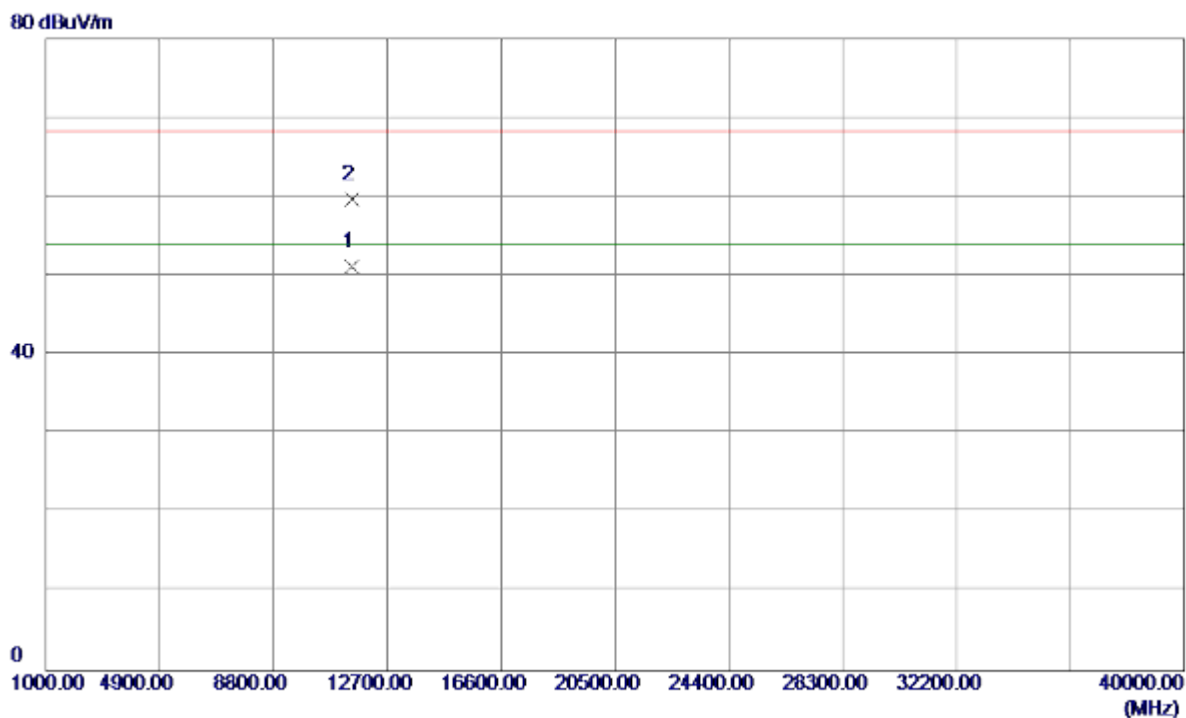
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5658.6000	25.09	40.25	65.34	68.30	-2.96	Peak	
2	5658.6000	12.70	40.25	52.95	68.30	-15.35	AVG	
3	5715.0000	20.96	40.54	61.50	68.30	-6.80	Peak	
4	5715.0000	10.49	40.54	51.03	68.30	-17.27	AVG	
5	5725.0000	33.99	40.59	74.58	78.30	-3.72	Peak	
6	5725.0000	19.54	40.59	60.13	68.30	-8.17	AVG	
7	5745.4000	60.21	40.70	100.91	68.30	32.61	AVG	No Limit
8 *	5746.2000	71.60	40.70	112.30	78.30	34.00	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5745MHz

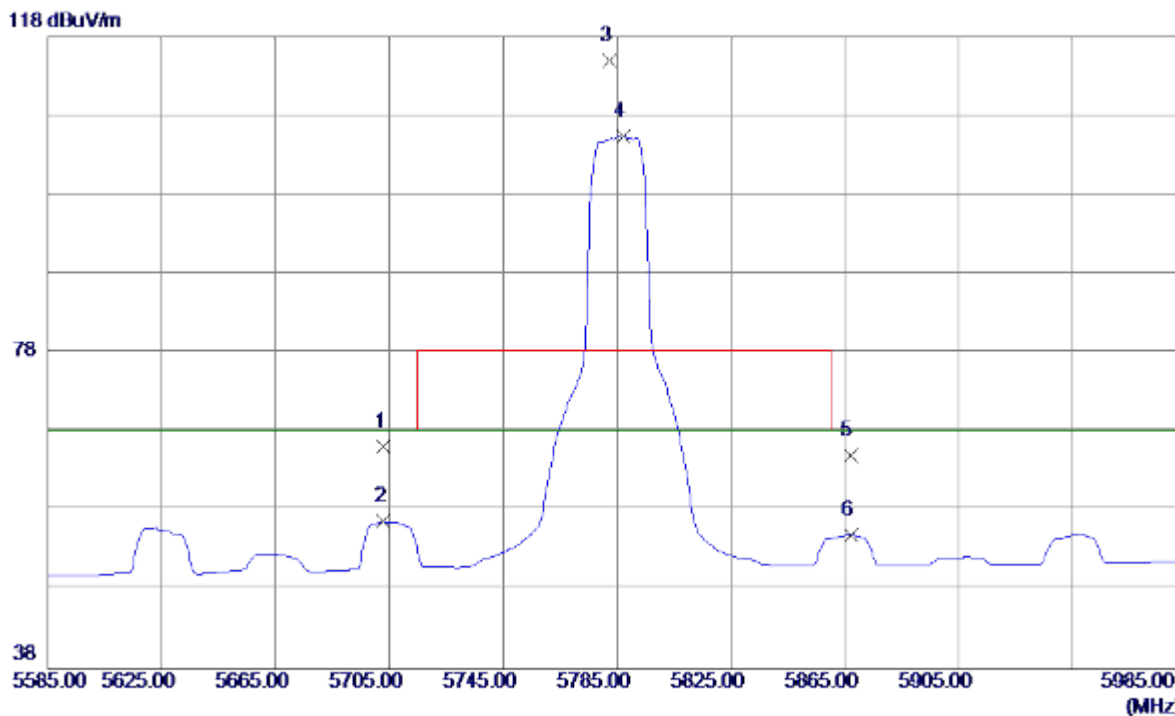
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11490.1100	34.28	16.91	51.19	54.00	-2.81	AVG	
2	11490.1100	42.80	16.91	59.71	68.30	-8.59	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785MHz

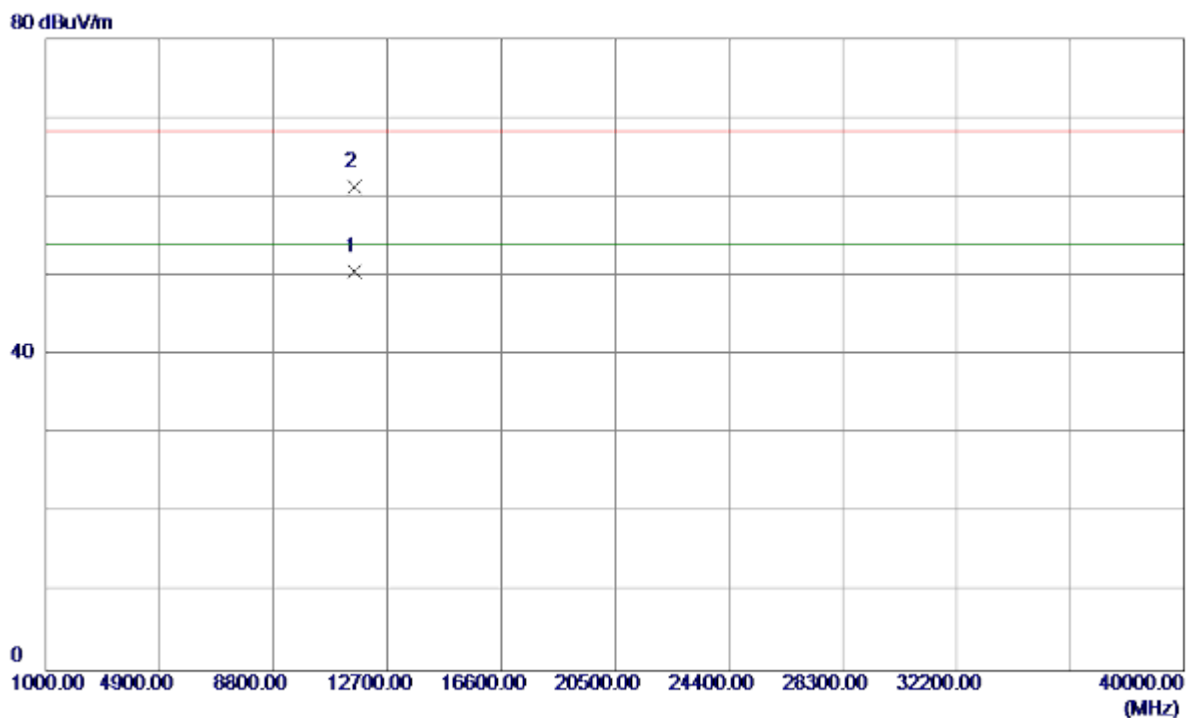
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5703.0000	25.64	40.48	66.12	68.30	-2.18	Peak	
2	5703.0000	16.21	40.48	56.69	68.30	-11.61	AVG	
3	5782.2000	74.04	40.88	114.92	78.30	36.62	Peak	No Limit
4 *	5787.4000	64.45	40.91	105.36	68.30	37.06	AVG	No Limit
5	5867.0000	23.66	41.32	64.98	68.30	-3.32	Peak	
6	5867.4000	13.65	41.32	54.97	68.30	-13.33	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785MHz

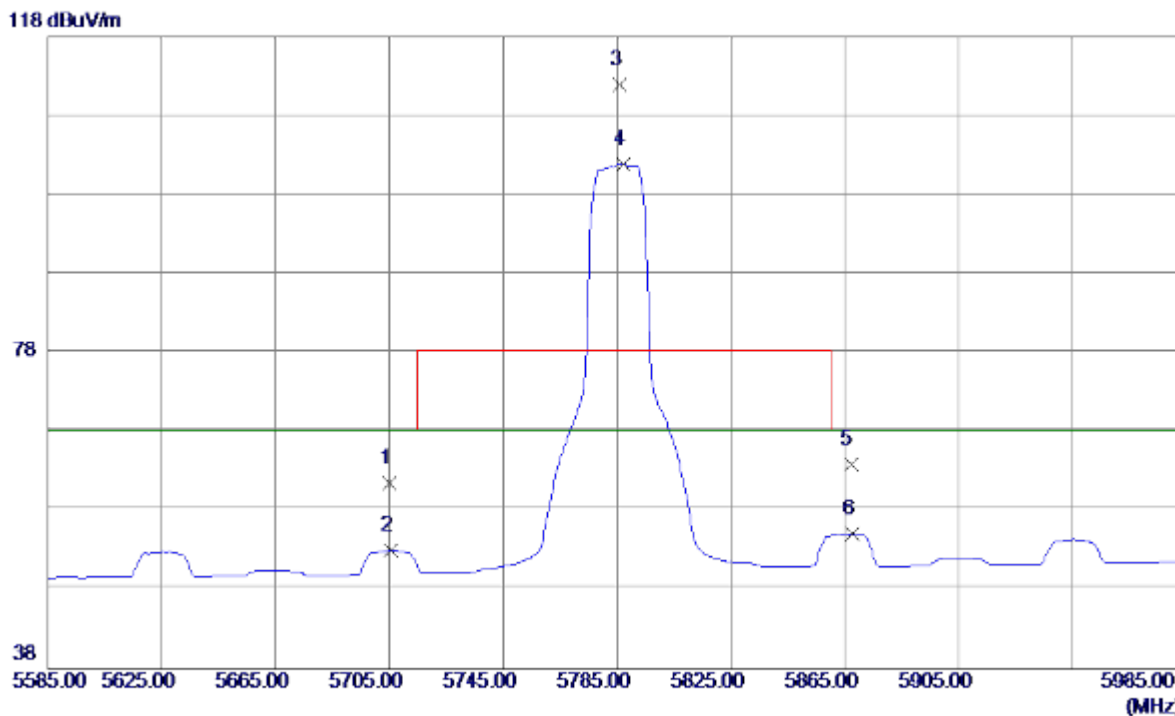
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11571.4100	33.48	17.05	50.53	54.00	-3.47	AVG	
2	11571.4100	44.26	17.05	61.31	68.30	-6.99	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785MHz

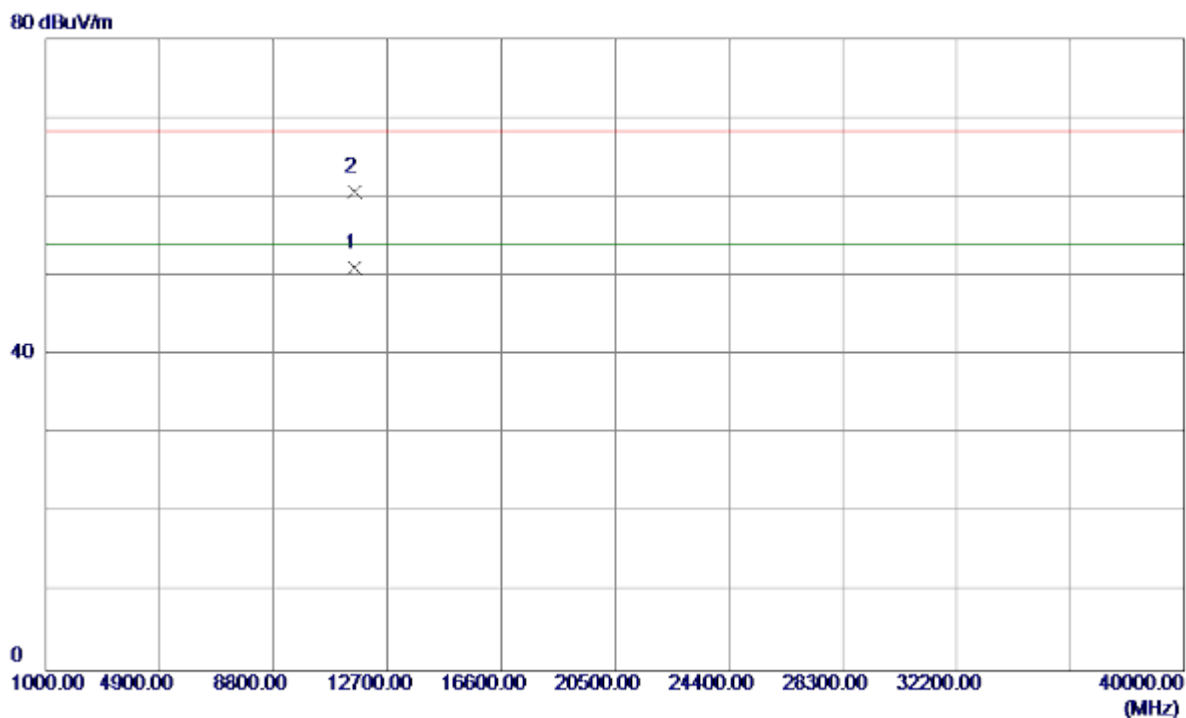
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5705.0000	21.00	40.49	61.49	68.30	-6.81	Peak	
2	5705.4000	12.57	40.49	53.06	68.30	-15.24	AVG	
3 *	5785.8000	71.04	40.90	111.94	78.30	33.64	Peak	No Limit
4	5787.4000	60.99	40.91	101.90	68.30	33.60	AVG	No Limit
5	5867.0000	22.61	41.32	63.93	68.30	-4.37	Peak	
6	5867.8000	13.81	41.32	55.13	68.30	-13.17	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5785MHz

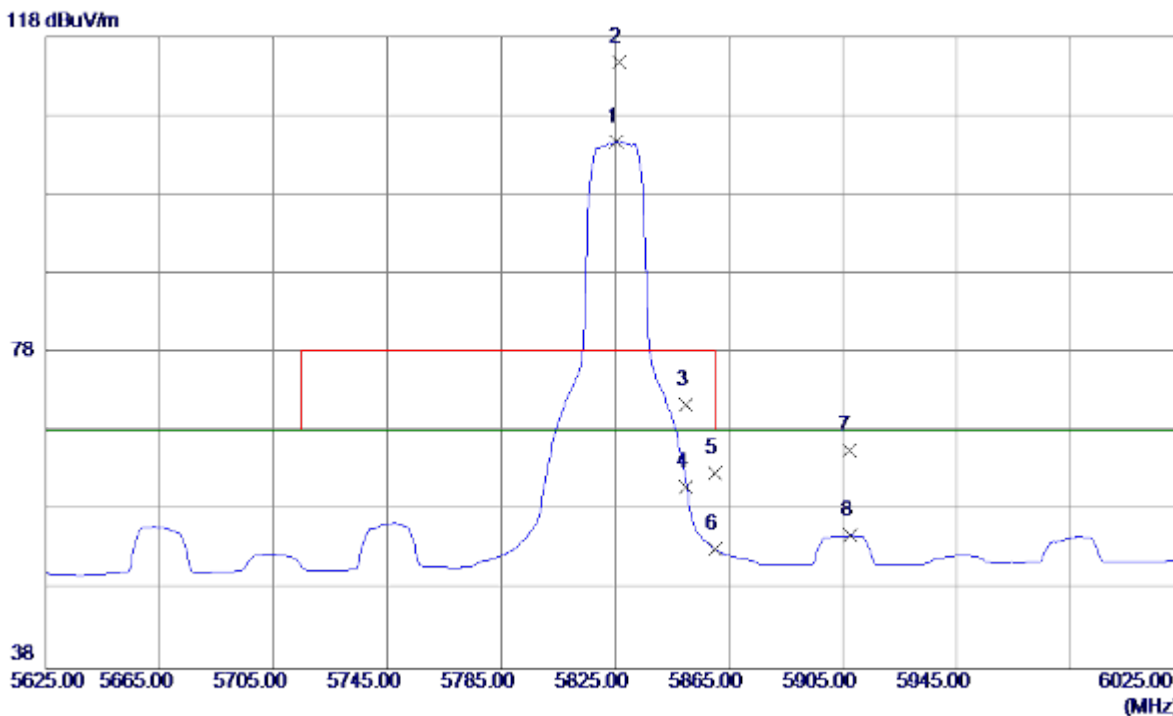
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11570.1300	34.06	17.05	51.11	54.00	-2.89	AVG	
2	11569.5599	43.56	17.05	60.61	68.30	-7.69	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825MHz

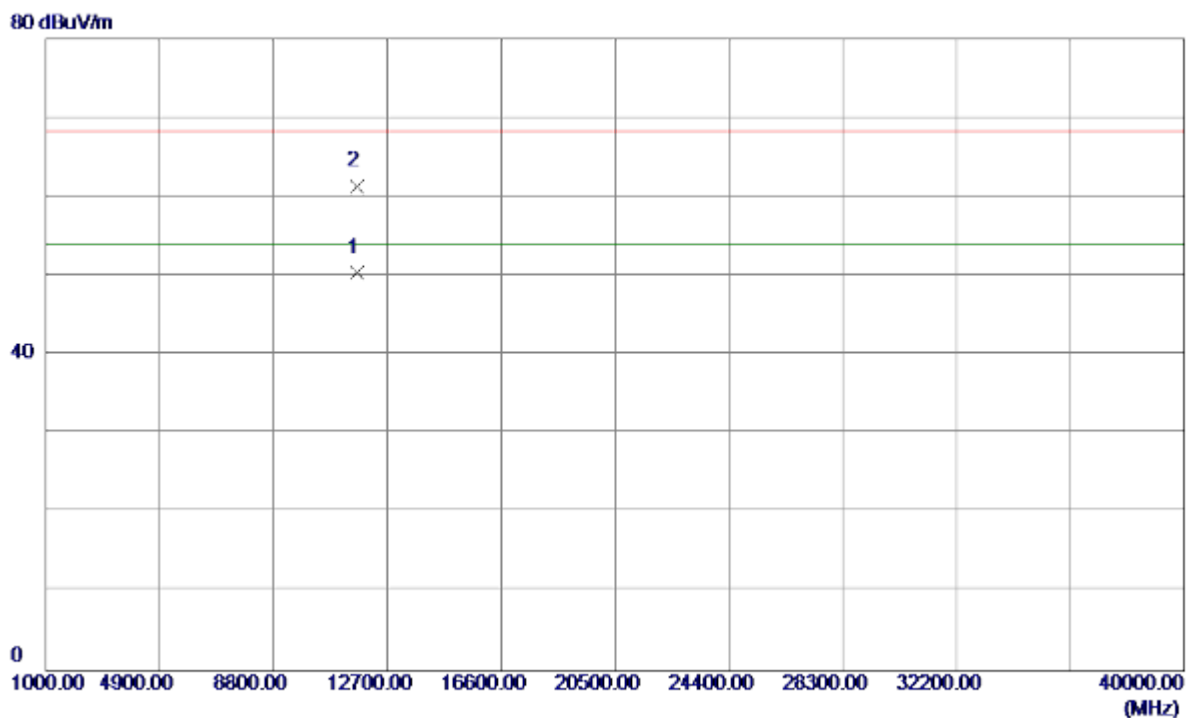
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5825.4000	63.63	41.11	104.74	68.30	36.44	AVG	No Limit
2 *	5826.2000	73.69	41.11	114.80	78.30	36.50	Peak	No Limit
3	5850.0000	30.18	41.23	71.41	78.30	-6.89	Peak	
4	5850.0000	19.77	41.23	61.00	68.30	-7.30	AVG	
5	5860.0000	21.45	41.28	62.73	78.30	-15.57	Peak	
6	5860.0000	11.89	41.28	53.17	68.30	-15.13	AVG	
7	5907.0000	24.13	41.52	65.65	68.30	-2.65	Peak	
8	5907.8000	13.42	41.53	54.95	68.30	-13.35	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825MHz

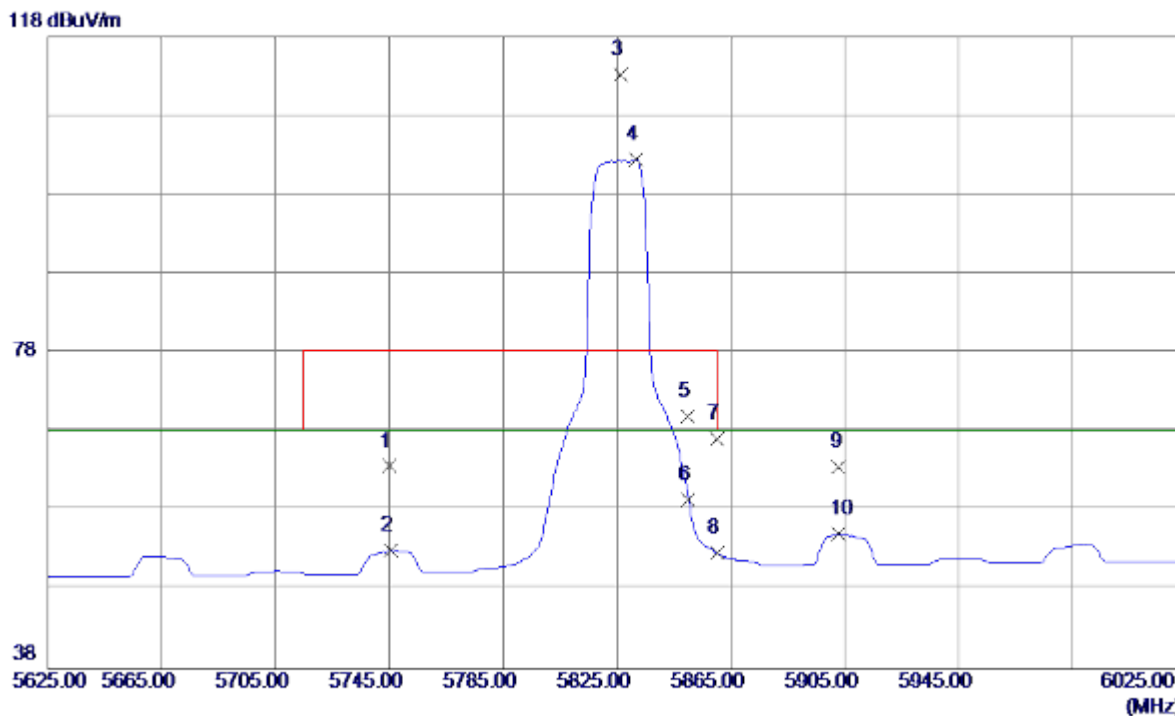
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11651.3900	33.20	17.18	50.38	54.00	-3.62	AVG	
2	11651.3900	44.18	17.18	61.36	68.30	-6.94	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825MHz

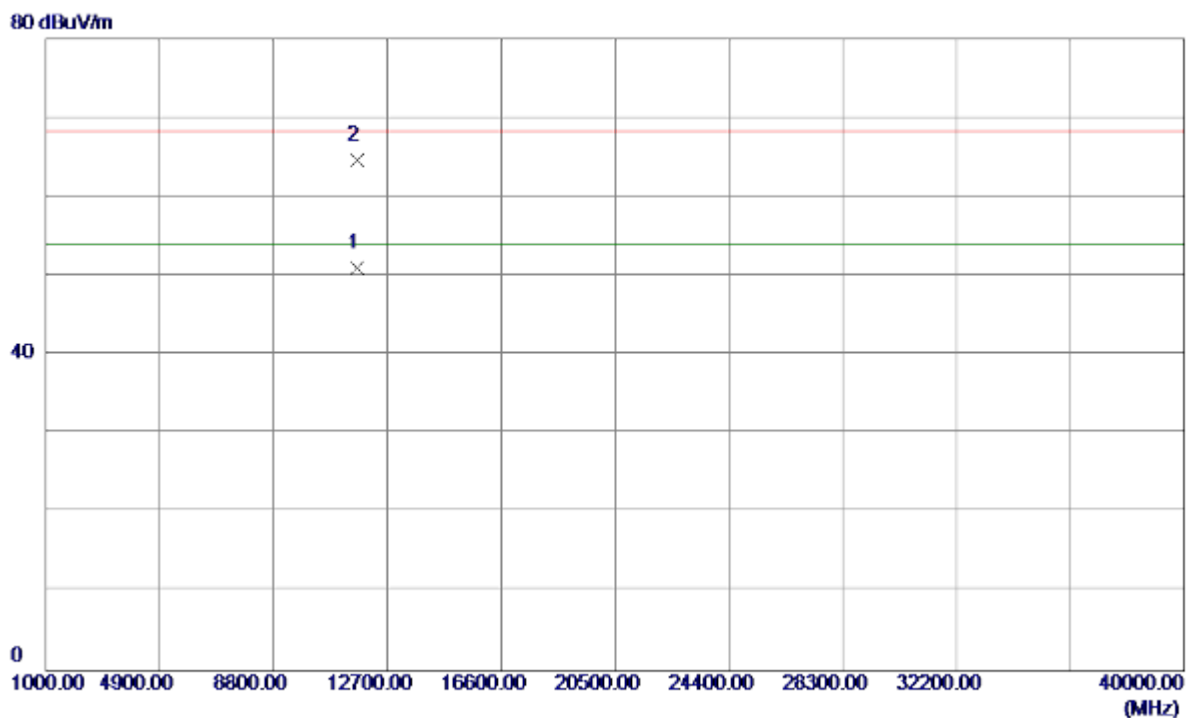
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5745.0000	22.99	40.69	63.68	78.30	-14.62	Peak	
2	5745.4000	12.28	40.70	52.98	68.30	-15.32	AVG	
3 *	5826.2000	72.14	41.11	113.25	78.30	34.95	Peak	No Limit
4	5831.8000	61.37	41.14	102.51	68.30	34.21	AVG	No Limit
5	5850.0000	28.84	41.23	70.07	78.30	-8.23	Peak	
6	5850.0000	18.15	41.23	59.38	68.30	-8.92	AVG	
7	5860.0000	25.80	41.28	67.08	78.30	-11.22	Peak	
8	5860.0000	11.39	41.28	52.67	68.30	-15.63	AVG	
9	5903.0000	22.15	41.50	63.65	68.30	-4.65	Peak	
10	5903.0000	13.61	41.50	55.11	68.30	-13.19	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC20 Mode 5825MHz

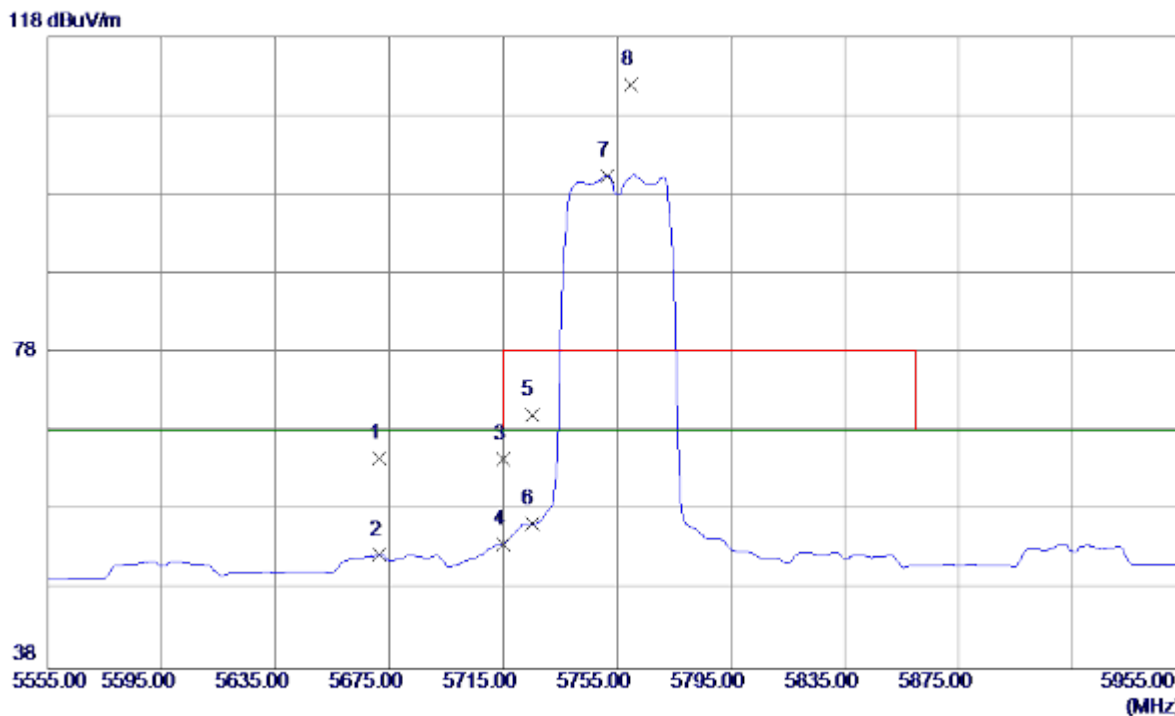
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11650.0300	33.81	17.17	50.98	54.00	-3.02	AVG	
2	11649.7500	47.41	17.17	64.58	68.30	-3.72	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

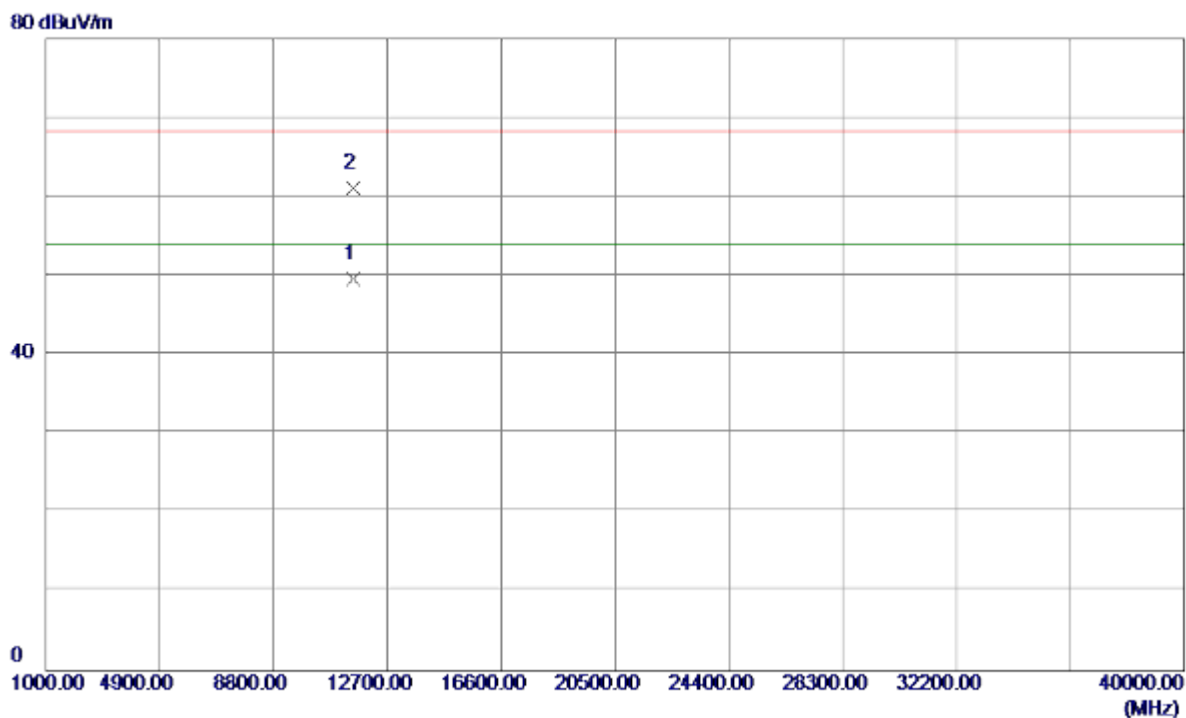
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5671.4000	24.42	40.32	64.74	68.30	-3.56	Peak	
2	5671.4000	12.16	40.32	52.48	68.30	-15.82	AVG	
3	5715.0000	24.04	40.54	64.58	68.30	-3.72	Peak	
4	5715.0000	13.37	40.54	53.91	68.30	-14.39	AVG	
5	5725.0000	29.58	40.59	70.17	78.30	-8.13	Peak	
6	5725.0000	15.84	40.59	56.43	68.30	-11.87	AVG	
7	5751.4000	59.73	40.73	100.46	68.30	32.16	AVG	No Limit
8 *	5759.8000	71.21	40.77	111.98	78.30	33.68	Peak	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

Vertical

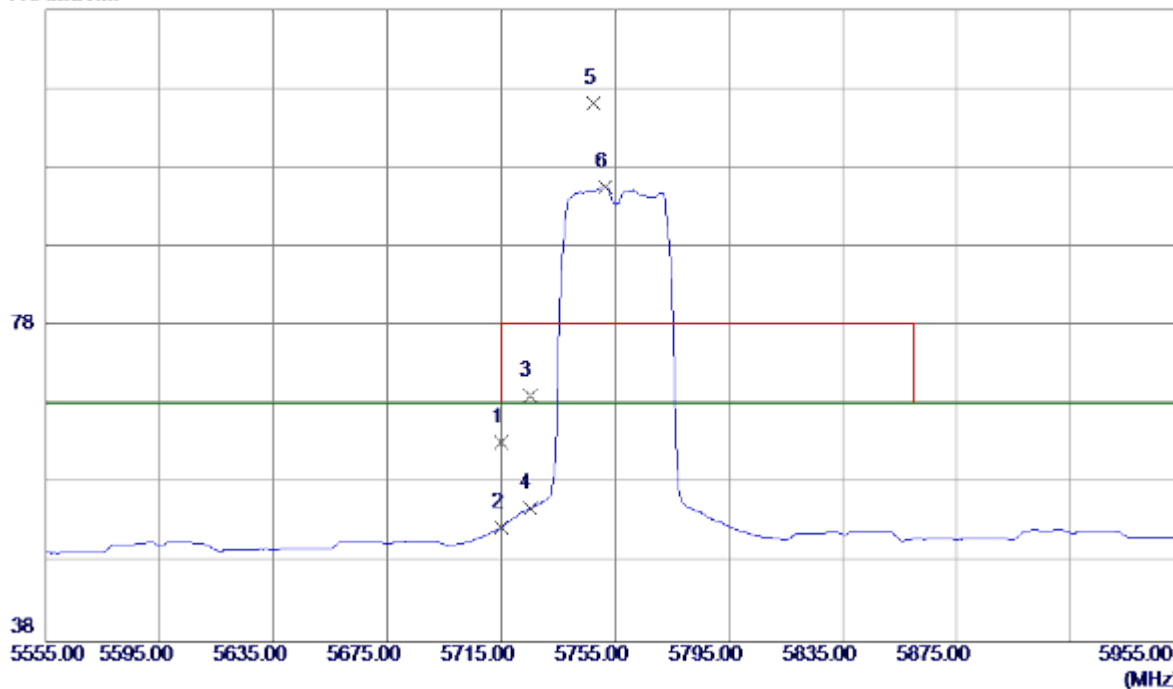


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11511.3600	32.62	16.95	49.57	54.00	-4.43	AVG	
2	11511.3600	44.23	16.95	61.18	68.30	-7.12	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

Horizontal

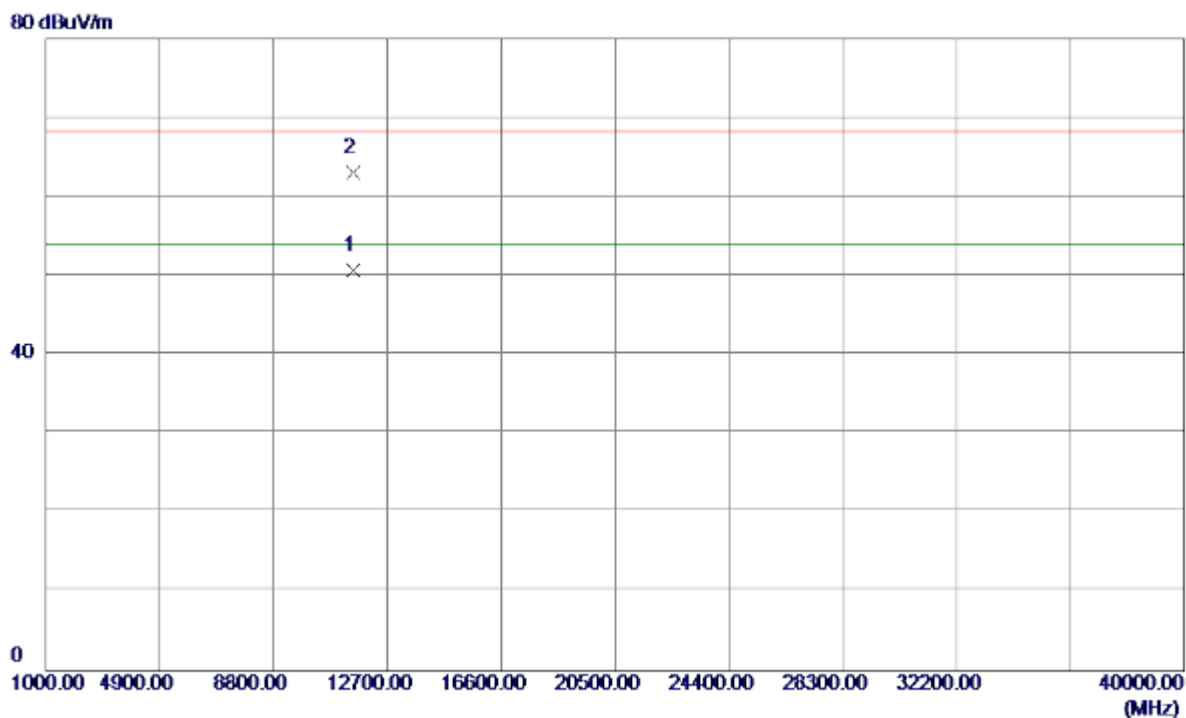
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	22.78	40.54	63.32	68.30	-4.98	Peak	
2	5715.0000	11.96	40.54	52.50	68.30	-15.80	AVG	
3	5725.0000	28.64	40.59	69.23	78.30	-9.07	Peak	
4	5725.0000	14.30	40.59	54.89	68.30	-13.41	AVG	
5 *	5747.4000	65.45	40.71	106.16	78.30	27.86	Peak	No Limit
6	5751.4000	54.80	40.73	95.53	68.30	27.23	AVG	No Limit

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

Horizontal

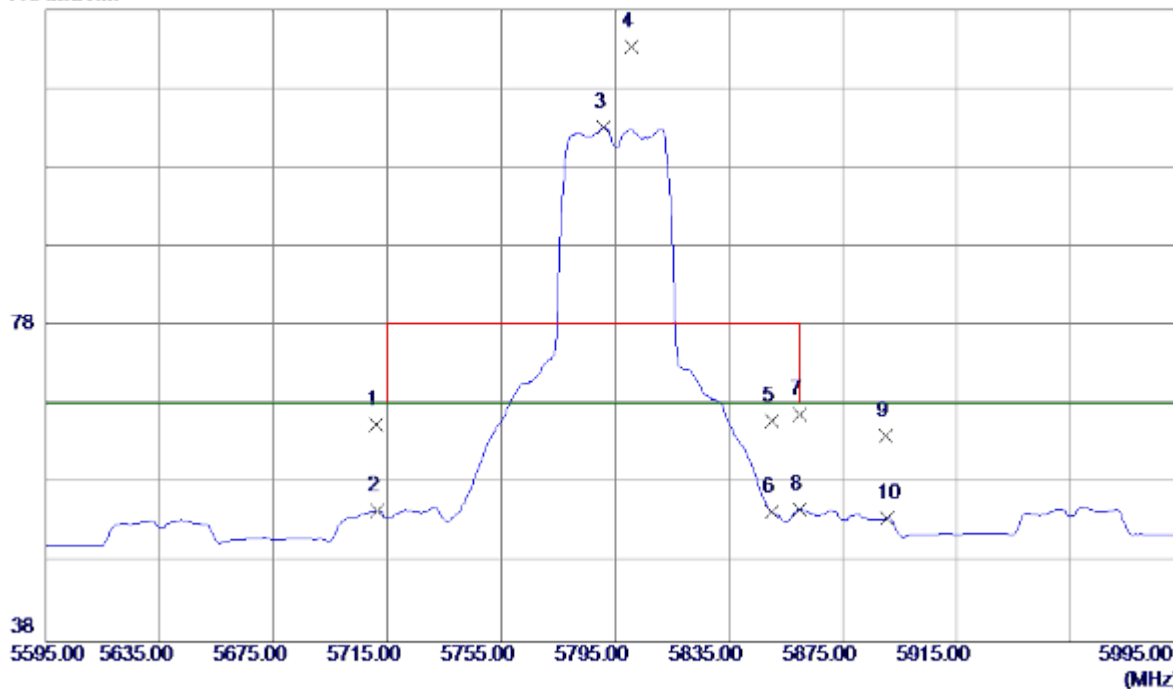


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11509.1400	33.79	16.95	50.74	54.00	-3.26	AVG	
2	11510.9800	46.10	16.95	63.05	68.30	-5.25	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

Vertical

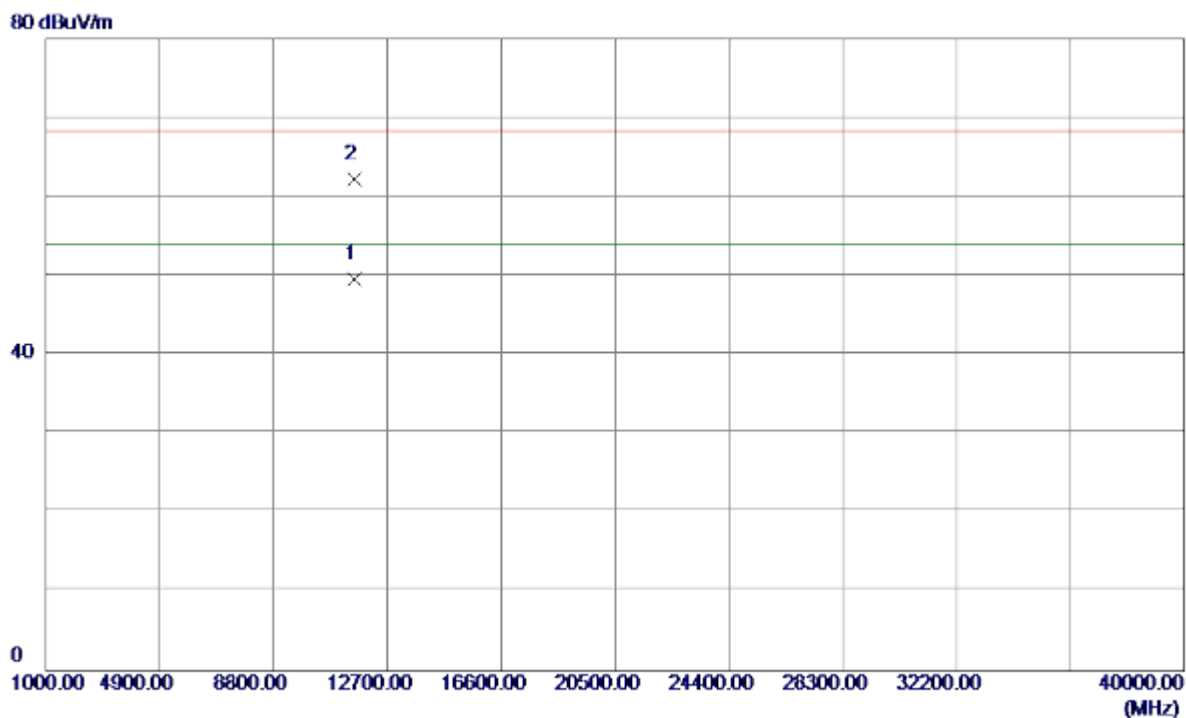
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5711.0000	25.07	40.52	65.59	68.30	-2.71	Peak	
2	5711.4000	14.09	40.52	54.61	68.30	-13.69	AVG	
3	5791.0000	62.13	40.93	103.06	68.30	34.76	AVG	No Limit
4 *	5800.6000	72.37	40.98	113.35	78.30	35.05	Peak	No Limit
5	5850.0000	24.83	41.23	66.06	78.30	-12.24	Peak	
6	5850.0000	13.19	41.23	54.42	68.30	-13.88	AVG	
7	5860.0000	25.55	41.28	66.83	78.30	-11.47	Peak	
8	5860.0000	13.53	41.28	54.81	68.30	-13.49	AVG	
9	5890.0000	22.67	41.44	64.11	68.30	-4.19	AVG	
10	5890.6000	12.20	41.44	53.64	68.30	-14.66	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

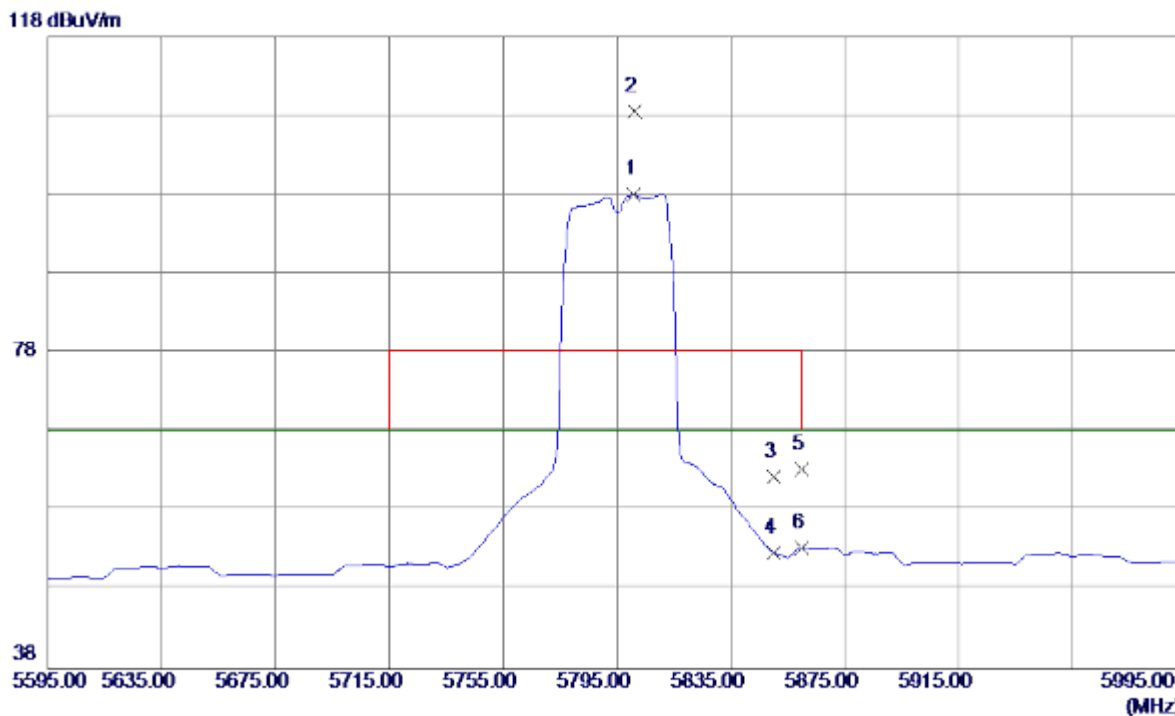
Vertical



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11591.4000	32.50	17.08	49.58	54.00	-4.42	AVG	
2	11591.2400	45.14	17.08	62.22	68.30	-6.08	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

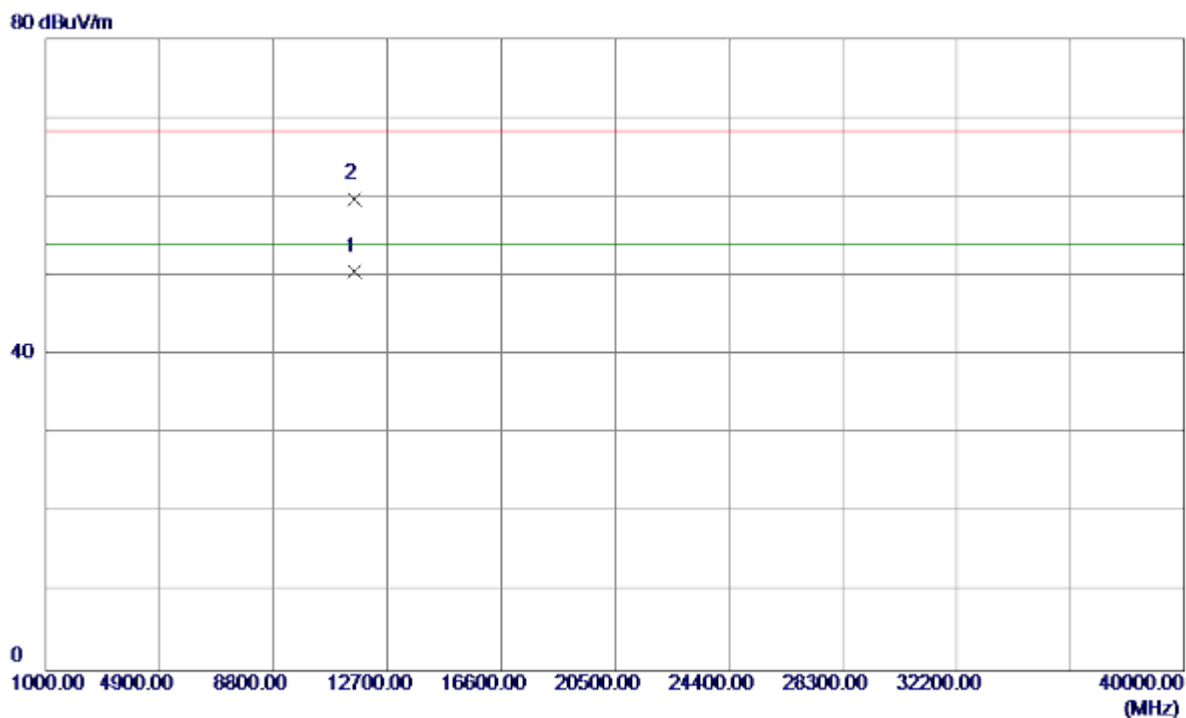
Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5801.0000	57.10	40.98	98.08	68.30	29.78	AVG	No Limit
2 *	5801.4000	67.65	40.98	108.63	78.30	30.33	Peak	No Limit
3	5850.0000	21.14	41.23	62.37	78.30	-15.93	Peak	
4	5850.0000	11.51	41.23	52.74	68.30	-15.56	AVG	
5	5860.0000	21.94	41.28	63.22	78.30	-15.08	Peak	
6	5860.0000	12.08	41.28	53.36	68.30	-14.94	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5795MHz

Horizontal

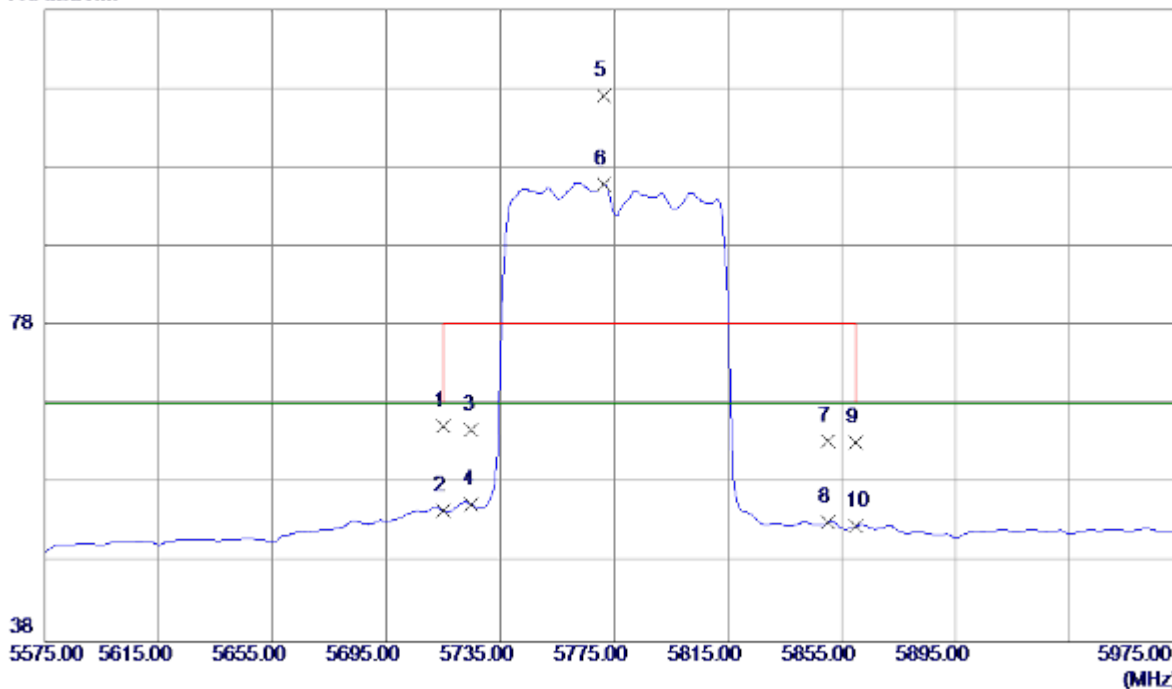


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11590.0400	33.50	17.08	50.58	54.00	-3.42	AVG	
2	11590.0400	42.68	17.08	59.76	68.30	-8.54	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

Vertical

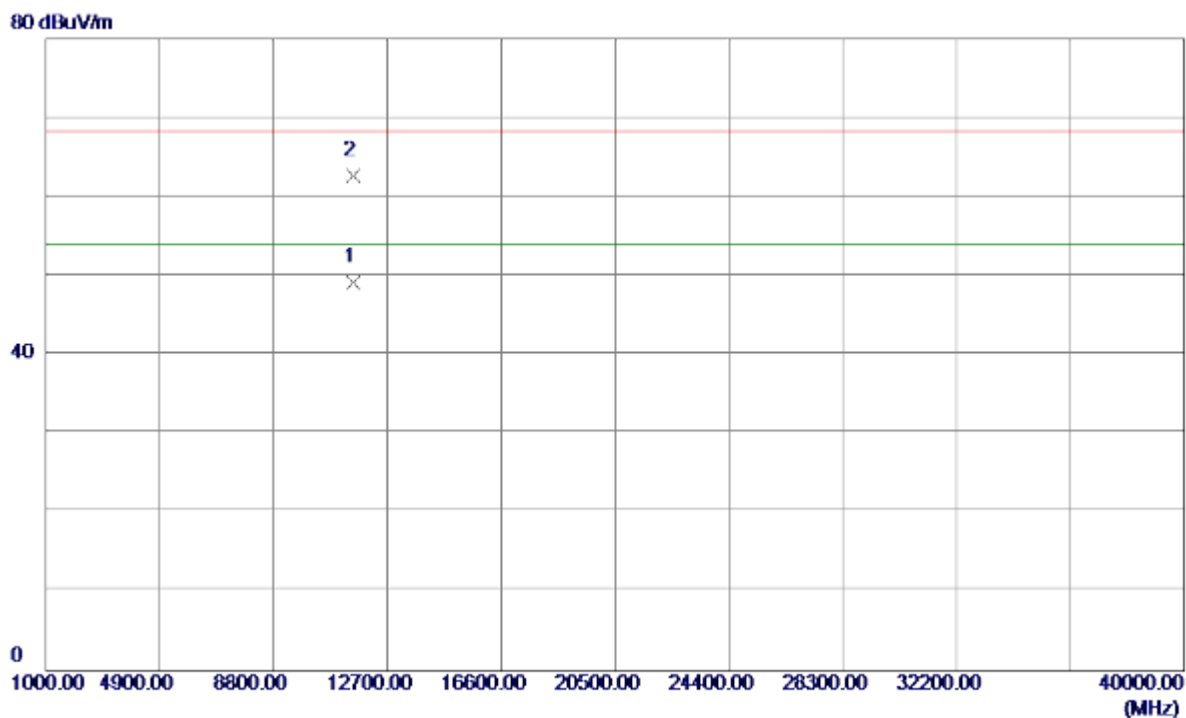
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	24.79	40.54	65.33	68.30	-2.97	Peak	
2	5715.0000	14.06	40.54	54.60	68.30	-13.70	AVG	
3	5725.0000	24.34	40.59	64.93	78.30	-13.37	Peak	
4	5725.0000	14.78	40.59	55.37	68.30	-12.93	AVG	
5 *	5771.4000	66.35	40.83	107.18	78.30	28.88	Peak	No Limit
6	5771.4000	55.02	40.83	95.85	68.30	27.55	AVG	No Limit
7	5850.0000	22.15	41.23	63.38	78.30	-14.92	Peak	
8	5850.0000	11.92	41.23	53.15	68.30	-15.15	AVG	
9	5860.0000	22.06	41.28	63.34	78.30	-14.96	Peak	
10	5860.0000	11.37	41.28	52.65	68.30	-15.65	AVG	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

Vertical

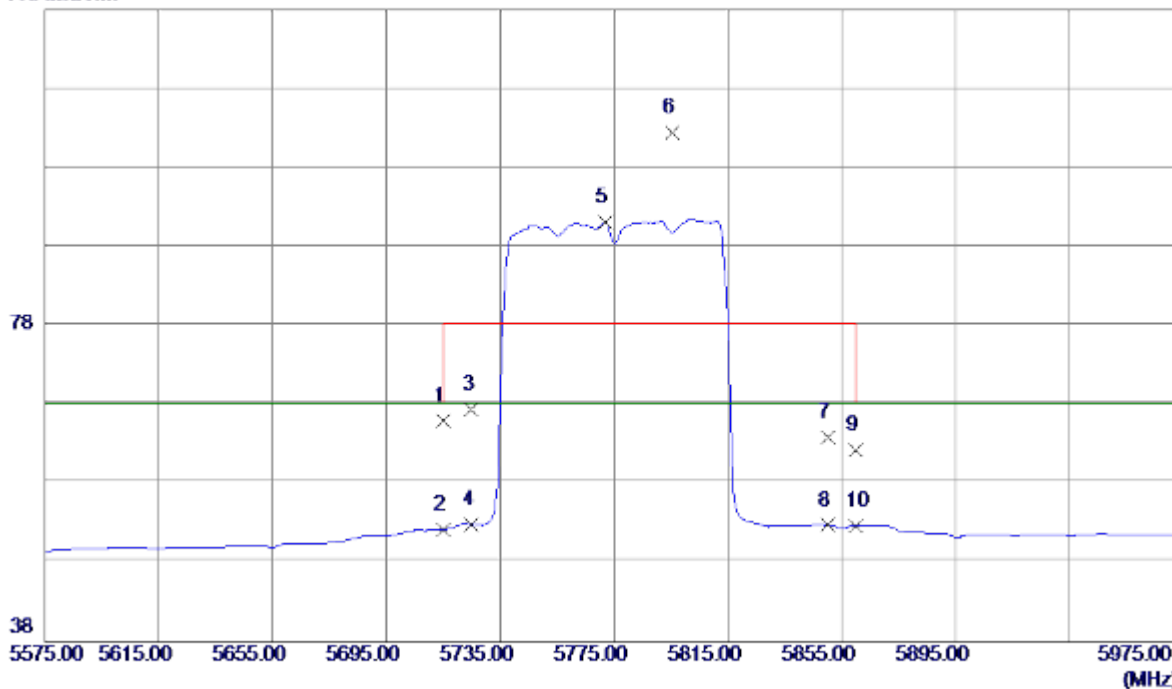


No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11551.4600	32.18	17.02	49.20	54.00	-4.80	AVG	
2	11549.3700	45.75	17.01	62.76	68.30	-5.54	Peak	

Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

Horizontal

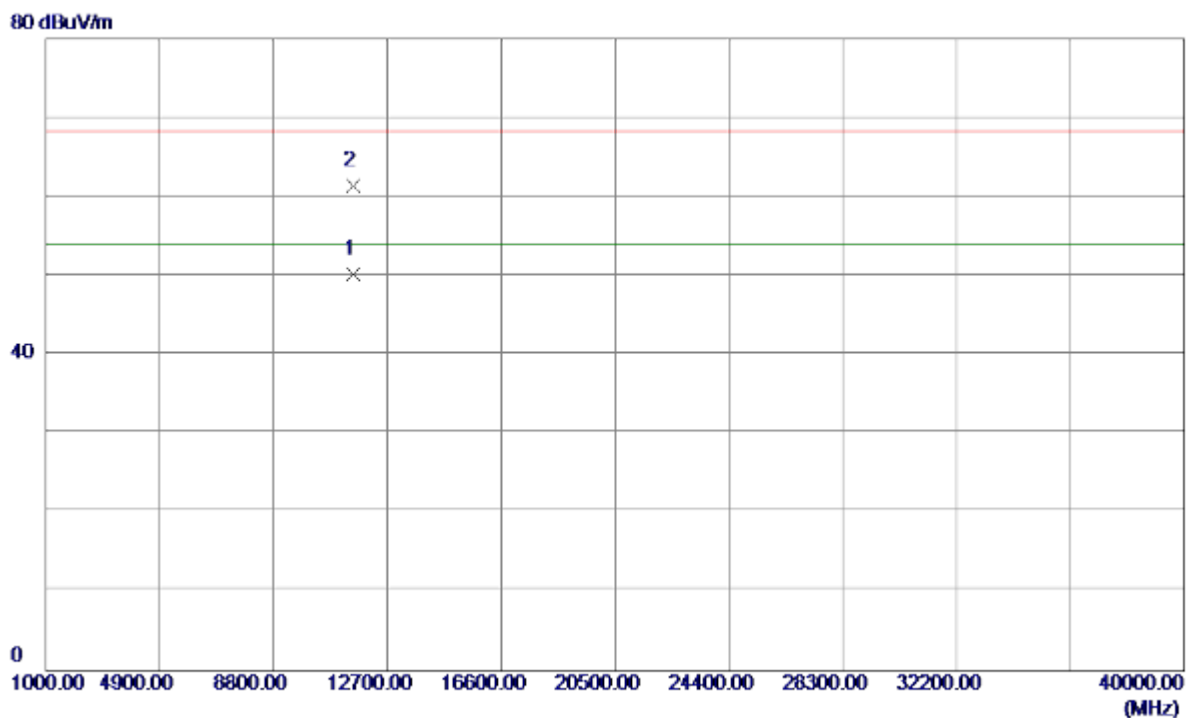
118 dBuV/m



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	5715.0000	25.49	40.54	66.03	68.30	-2.27	Peak	
2	5715.0000	11.69	40.54	52.23	68.30	-16.07	AVG	
3	5725.0000	26.78	40.59	67.37	78.30	-10.93	Peak	
4	5725.0000	12.36	40.59	52.95	68.30	-15.35	AVG	
5	5771.8000	50.21	40.83	91.04	68.30	22.74	AVG	No Limit
6 *	5795.4000	61.48	40.95	102.43	78.30	24.13	Peak	No Limit
7	5850.0000	22.74	41.23	63.97	78.30	-14.33	Peak	
8	5850.0000	11.57	41.23	52.80	68.30	-15.50	AVG	
9	5860.0000	21.06	41.28	62.34	78.30	-15.96	Peak	
10	5860.0000	11.48	41.28	52.76	68.30	-15.54	AVG	

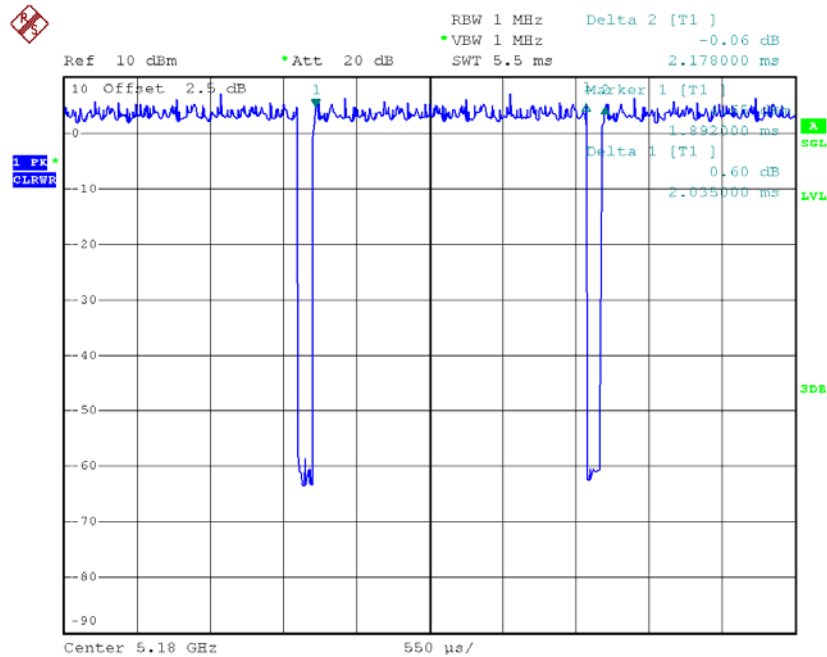
Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC80 Mode 5775MHz

Horizontal



No.	Freq. MHz	Reading Level dBuV/m	Correct Factor dB	Measure ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1 *	11551.2100	33.21	17.02	50.23	54.00	-3.77	AVG	
2	11551.2100	44.44	17.02	61.46	68.30	-6.84	Peak	

TX A Mode_DUTY CYCLE



Date: 28.JAN.2016 18:55:25

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

T_{ON} : 2.03 msec

T_{Total} : 2.18 msec

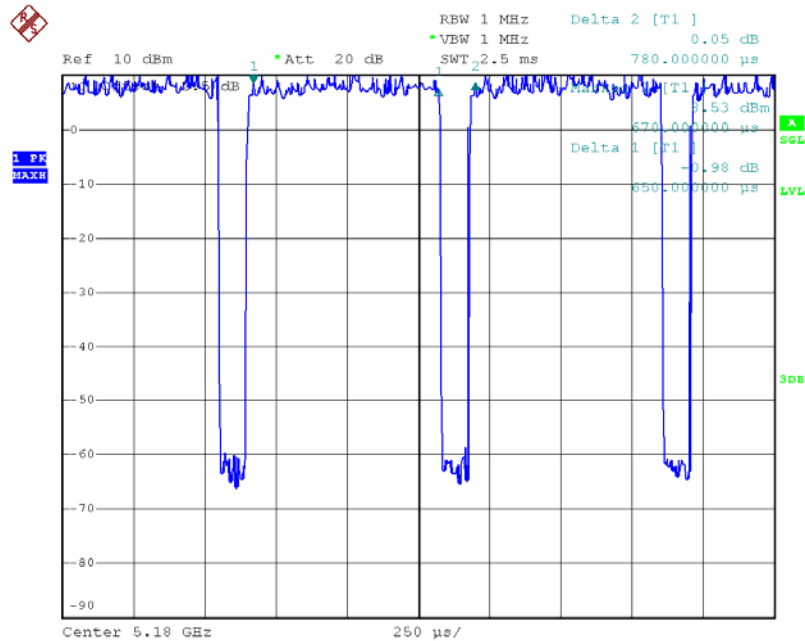
Duty cycle: 93.12%

$$\text{Duty Factor} = 10 \log(1/\text{Duty cycle})$$

Duty Factor = 0.31

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be calculated as Output Power = Measured power + Duty factor
 Power Spectral Density = Measured density + Duty factor

TX N20 Mode_DUTY CYCLE



Date: 28.JAN.2016 19:50:07

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

T_{ON} : 0.65 msec

T_{Total} : 0.78 msec

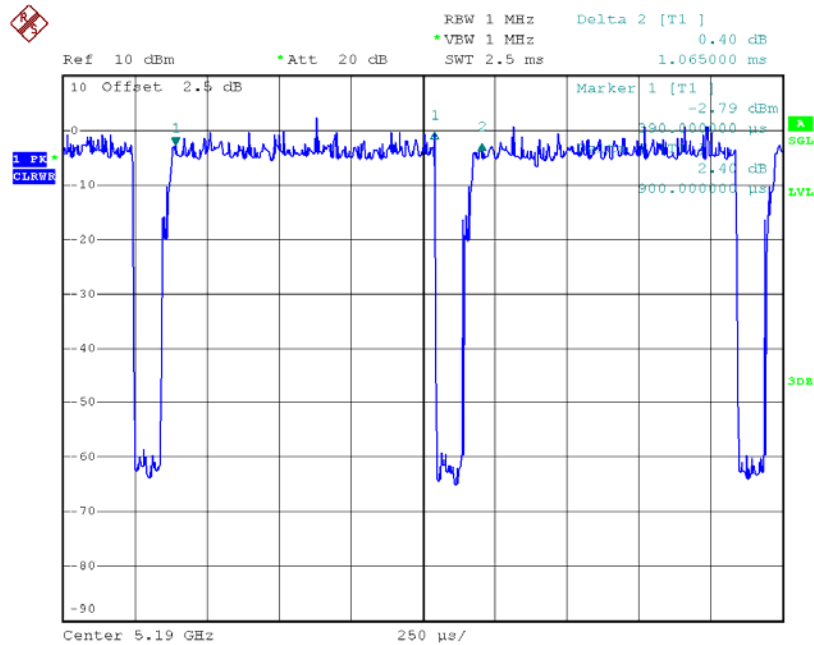
Duty cycle: 83.33%

$$\text{Duty Factor} = 10 \log(1/\text{Duty cycle})$$

Duty Factor = 0.79

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducus factor
 Power Spectral Density = Measured density + Duty factor

TX N40 Mode_DUTY CYCLE



Date: 28.JAN.2016 18:56:20

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

T_{ON} : 0.90 msec

T_{Total} : 1.06 msec

Duty cycle: 84.91%

$$\text{Duty Factor} = 10 \log(1/\text{Duty cycle})$$

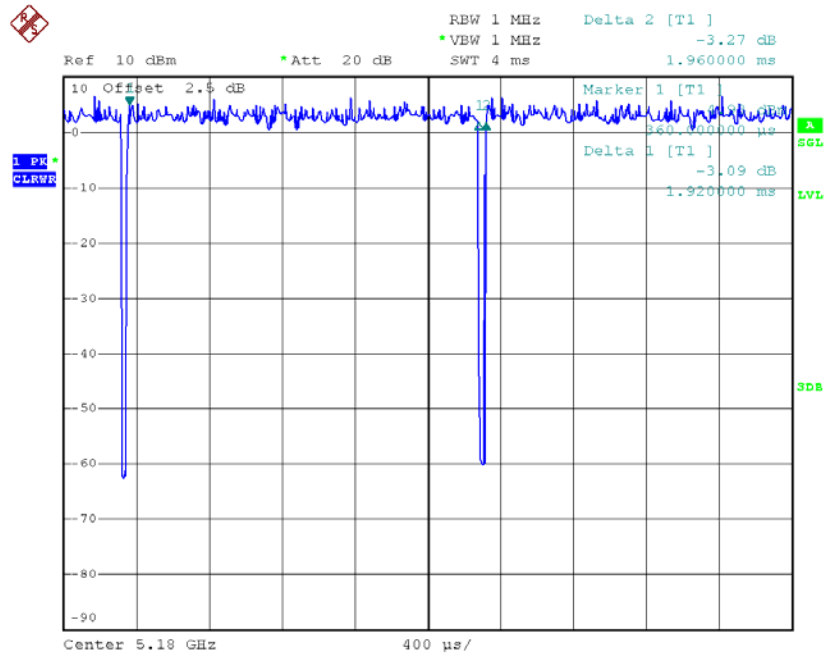
Duty Factor = 0.71

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be calculated

$$\text{as Output Power} = \text{Measured power} + \text{Duty factor}$$

$$\text{Power Spectral Density} = \text{Measured density} + \text{Duty factor}$$

TX AC20 Mode_DUTY CYCLE



Date: 28.JAN.2016 18:55:55

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

T_{ON} : 1.92 msec

T_{Total} : 1.96 msec

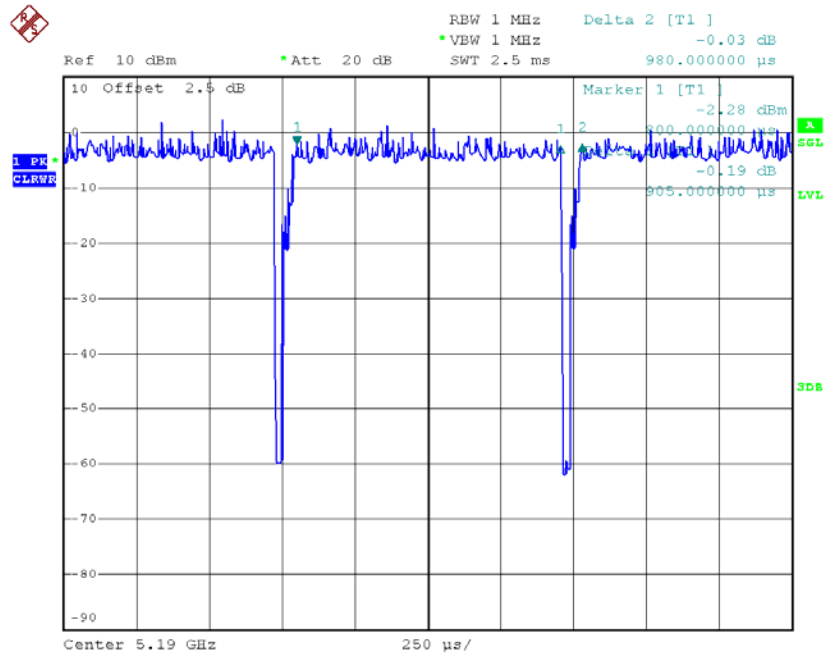
Duty cycle: 97.96%

$$\text{Duty Factor} = 10 \log(1/\text{Duty cycle})$$

Duty Factor = 0.09

Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducus factor
Power Spectral Density = Measured density + Duty factor

TX AC40 Mode_DUTY CYCLE



Date: 28.JAN.2016 18:56:42

Duty cycle: TX DUTYMHZ

$$\text{Duty cycle} = T_{\text{ON}} / T_{\text{Total}}$$

T_{ON} : 0.90 msec

T_{Total} : 0.98 msec

Duty cycle: 91.84%

$$\text{Duty Factor} = 10 \log(1/\text{Duty cycle})$$

Duty Factor = 0.37

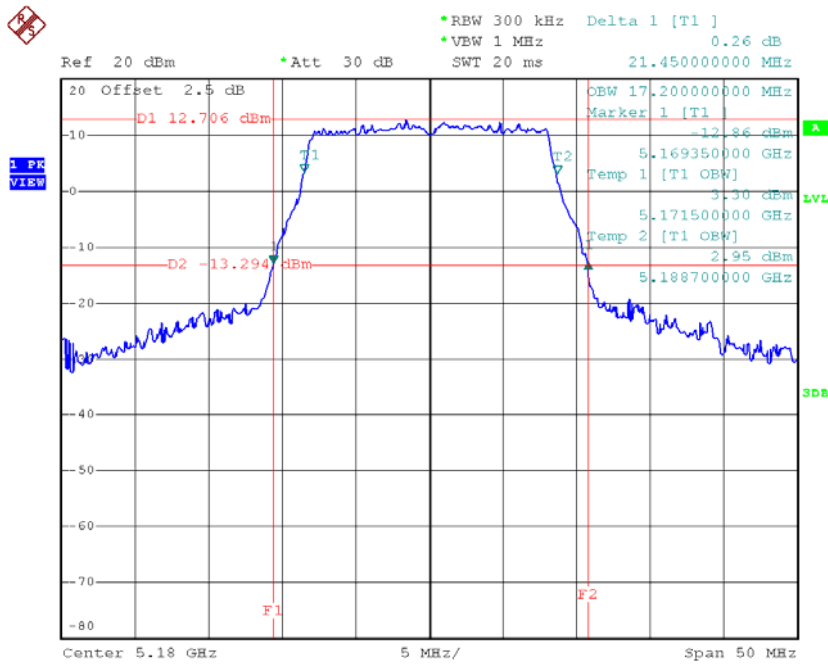
Note: The EUT was programmed to be in countinously transmitting mode and the transmit duty cycle is not less than 98 %, so, the output power and power density should be cacluated as Output Power = Measured power + Ducus factor
 Power Spectral Density = Measured density + Duty factor

ATTACHMENT E - BANDWIDTH

Test Mode: UNII-1/TX A Mode_CH36/CH40/CH48

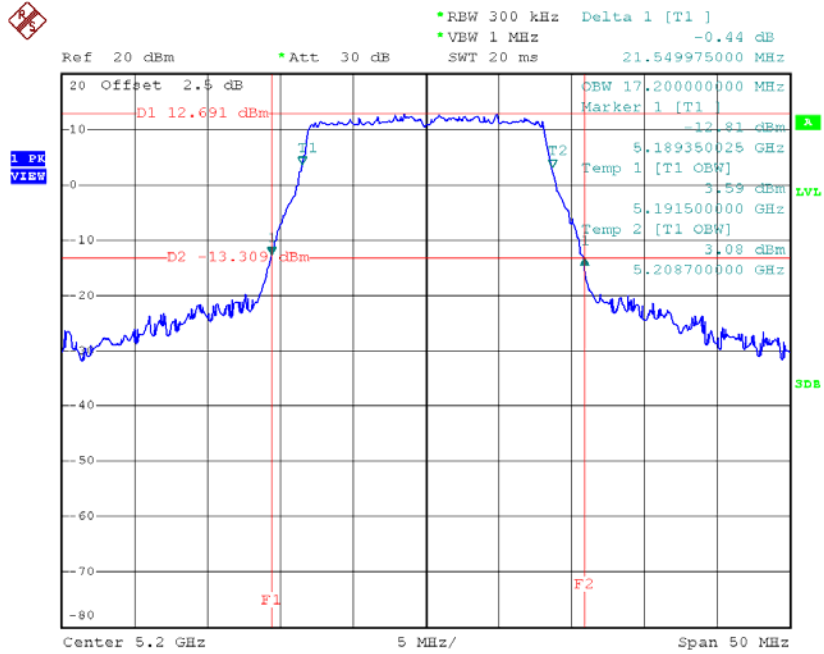
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	21.45	17.20
CH40	5200	21.55	17.20
CH48	5240	21.45	17.10

TX CH36



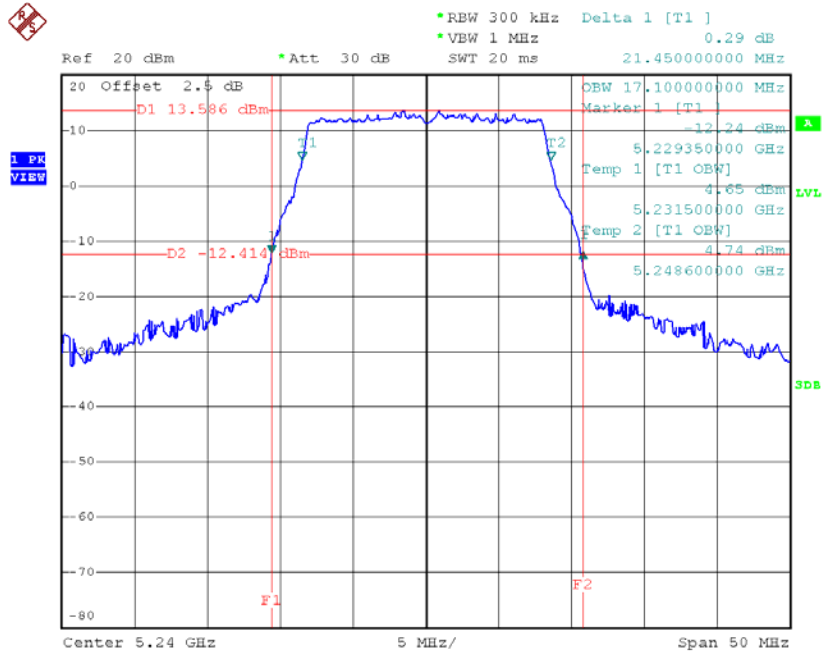
Date: 28.JAN.2016 18:58:57

TX CH40



Date: 28.JAN.2016 19:02:33

TX CH48

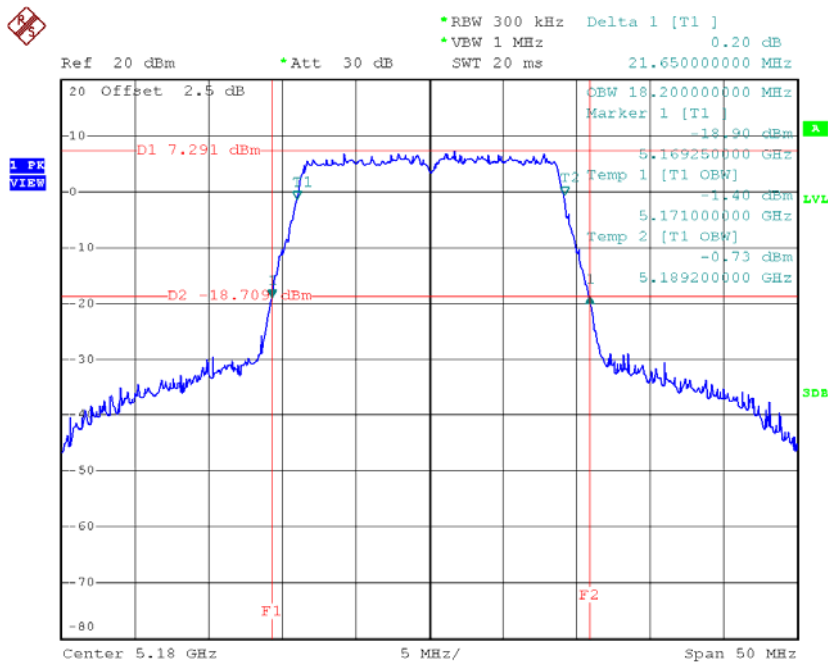


Date: 28.JAN.2016 19:03:23

Test Mode: UNII-1/TX N20 Mode_CH36/CH40/CH48

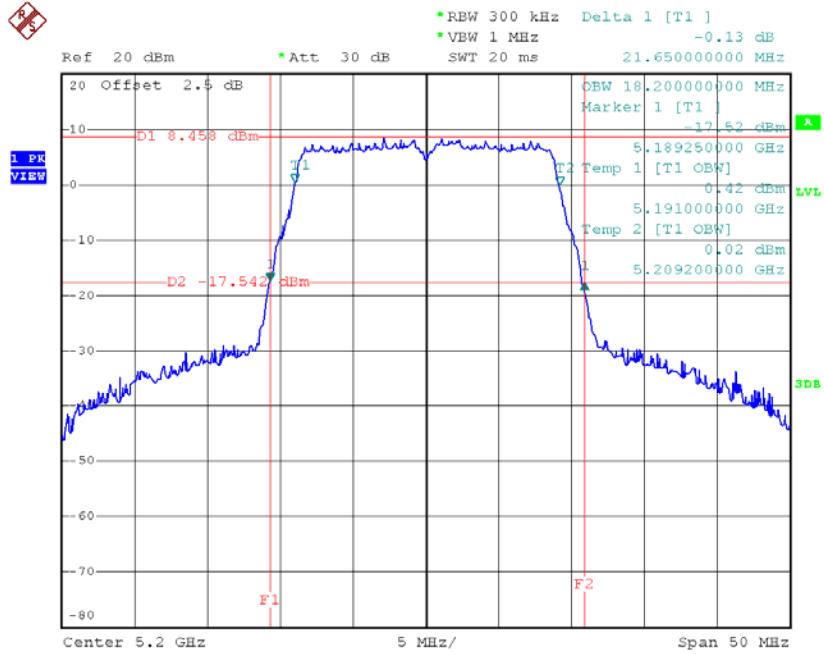
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH36	5180	21.65	18.20
CH40	5200	21.65	18.20
CH48	5240	21.70	18.30

TX CH36



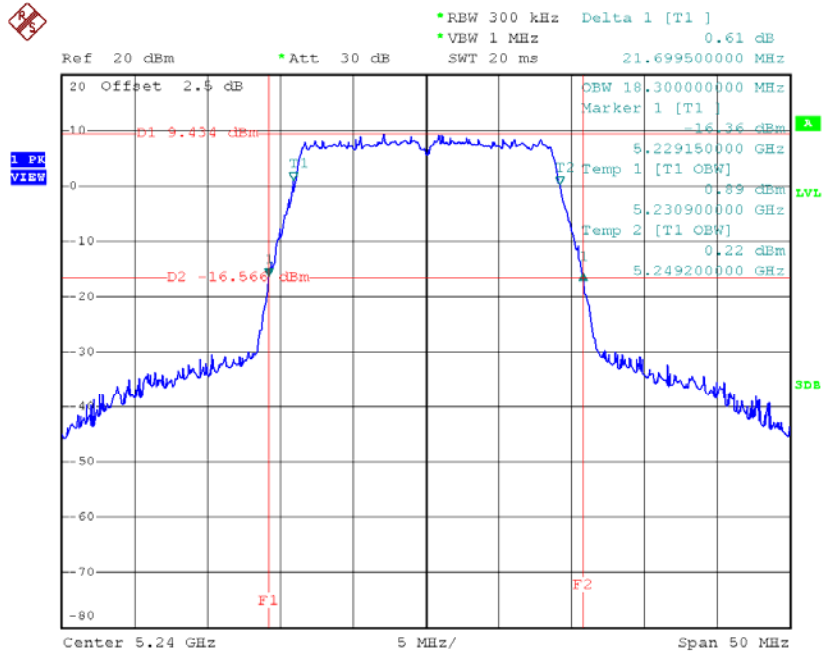
Date: 28.JAN.2016 19:11:42

TX CH40



Date: 28.JAN.2016 19:12:37

TX CH48

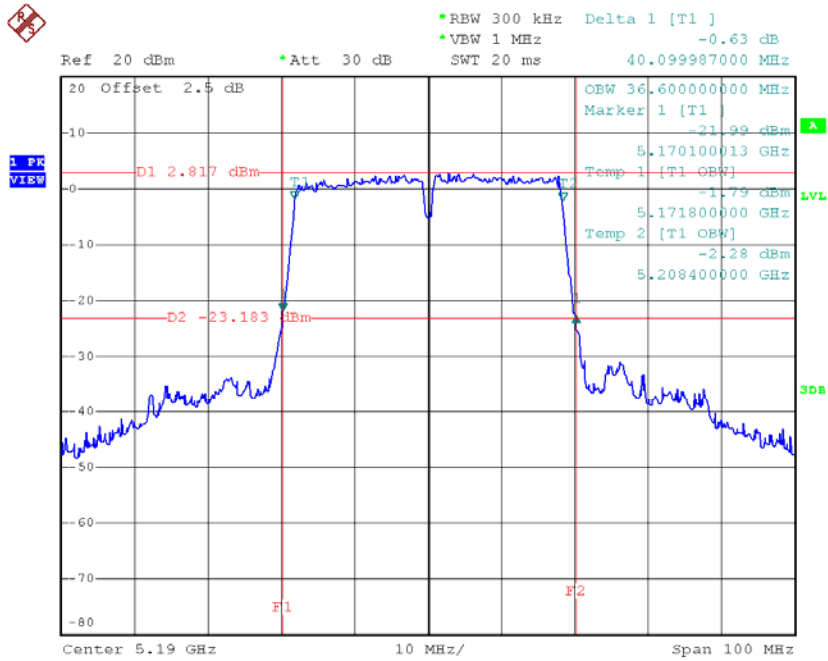


Date: 28.JAN.2016 19:13:29

Test Mode: UNII-1/TX N40 Mode_CH38/CH46

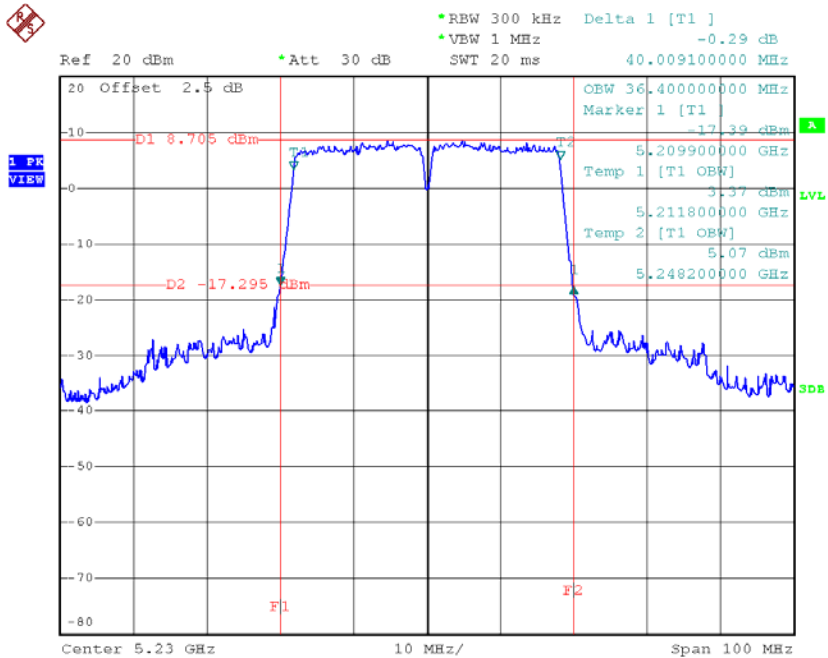
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
CH38	5190	40.10	36.60
CH46	5230	40.01	36.40

TX CH38



Date: 28.JAN.2016 19:32:03

TX CH46



Date: 28.JAN.2016 19:33:14