

FCC Radio Test Report

FCC ID: X7D-IP04227

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

Project No. : 1410C191
Equipment : AC1200 Wireless Dual Band Gigabit Router
Model Name : A2004NS; IP04227
Applicant : ZIONCOM ELECTRONICS (SHENZHEN) LTD.
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Date of Receipt : Oct. 23, 2014
Date of Test : Oct. 23, 2014~ Nov. 10, 2014
Issued Date : Nov. 12, 2014
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Declaration

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1410C191	Original Issue.	Nov. 12, 2014

1. CERTIFICATION

Equipment : AC1200 Wireless Dual Band Gigabit Router
Brand Name : TOTOLINK
Model Name : A2004NS; IP04227
Applicant : ZIONCOM ELECTRONICS (SHENZHEN) LTD.
Manufacturer: ZIONCOM ELECTRONICS (SHENZHEN) LTD.
Address : Building A1~A2, Lantian Science and Technology Park, Xinyu Road Xinqiao
Henggang Block Shajing Street, Baoan District, Shenzhen City, China
Factory : ZIONCOM ELECTRONICS (SHENZHEN) LTD.
Address : Building A1~A2, Lantian Science and Technology Park, Xinyu Road Xinqiao
Henggang Block Shajing Street, Baoan District, Shenzhen City, China
Date of Test : Oct. 23, 2014~ Nov. 10, 2014
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.4: 2009
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

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-2-1410C191) 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
FCC			
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) FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. 523792
BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

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)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

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

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Wireless Dual Band Gigabit Router	
Brand Name	TOTOLINK	
Model Name	A2004NS; IP04227	
Mode Different	Only differ in model name.	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	867Mbps
	Output Power (Max.)for UNII-1	802.11a: 9.82dBm 802.11n (20M): 9.33dBm 802.11n (40M): 9.88dBm 802.11ac (20M): 9.40dBm 802.11ac (40M): 11.08dBm 802.11ac (80M): 10.76dBm
	Output Power (Max.)for UNII-3	802.11a: 9.94dBm 802.11n (20M): 9.20dBm 802.11n (40M): 9.84dBm 802.11ac (20M): 9.49dBm 802.11ac (40M): 11.04dBm 802.11ac (80M): 10.78dBm
Power Source	DC voltage supplied from AC/DC adapter. Manufacturer: SHENZHEN CITY HONGBEN ELECTRONICS CO., LTD Model:GT-WAAU12000200-302	
Power Rating	I/P: AC 100-240V 50/60Hz 0.8A O/P: DC 12V 2.0A	

Note:

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

2. Channel List:

802.11a 802.11n 20MHz 802.11ac 20MHz		802.11n 40MHz 802.11ac 40MHz		802.11ac 80MHz	
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				

802.11a 802.11n 20MHz 802.11ac 20MHz		802.11n 40MHz 802.11ac 40MHz		802.11ac 80MHz	
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)	Note
3		H001-10164-B	Dipole	N/A	5.0	90mm
4		H001-10172-B	Dipole	N/A	5.0	210mm

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R). All transmit signals are completely uncorrelated, then, Direction gain = G_{ANT} , that is Directional gain=5.0.

4.

Operating Mode	2TX
TX Mode	
802.11a	V (ANT 3 + ANT 4)
802.11n (20MHz)	V (ANT 3 + ANT 4)
802.11n (40MHz)	V (ANT 3 + ANT 4)
802.11ac (20MHz)	V (ANT 3 + ANT 4)
802.11ac (40MHz)	V (ANT 3 + ANT 4)
802.11ac (80MHz)	V (ANT 3 + ANT 4)

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 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)
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 emission 30 MHz to 1GHz test, the 802.11a mode is found to be the worst case and recorded.
 (2)For radiated emission 9K-30MHz test, the UNII-1 TX A Mode 5180MHz is found to be the worst case and recorded.
 (3)Both master and client mode are tested and master is found to be the worst case and recorded.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

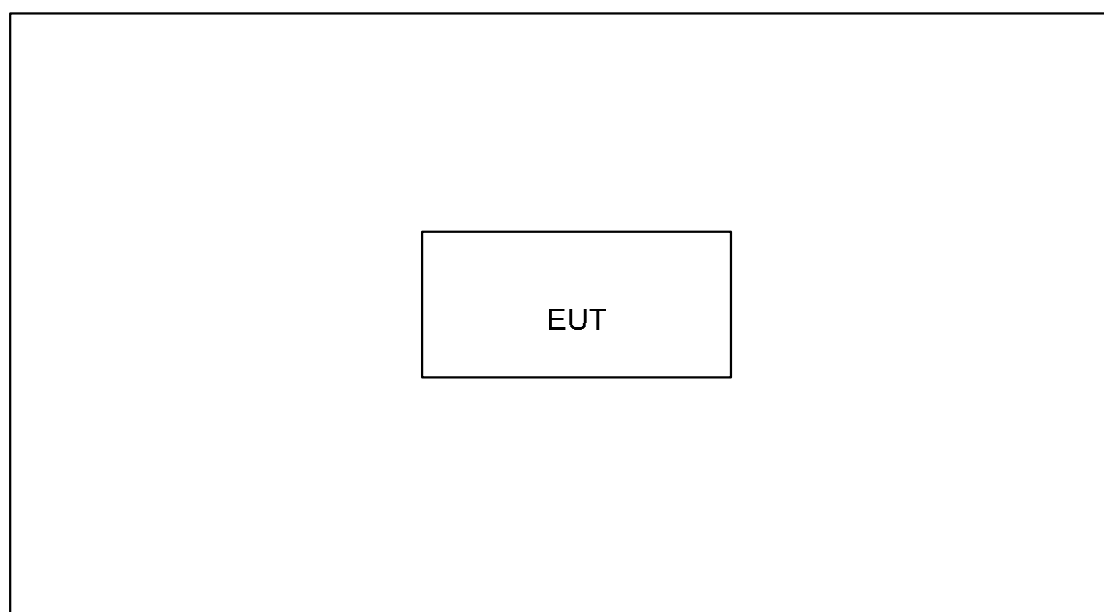
UNII-1			
Test Software Version	MP TEST		
Frequency (MHz)	5180	5200	5240
A Mode	(39,36)	(38,36)	(36,35)
N20 Mode	(37,35)	(36,35)	(35,34)
Frequency (MHz)	5190	5230	
N40 Mode	(36,35)	(36,34)	

UNII-3			
Test Software Version	MP TEST		
Frequency (MHz)	5745	5785	5825
A Mode	(39,34)	(39,34)	(39,33)
N20 Mode	(37,32)	(36,32)	(34,31)
Frequency (MHz)	5755	5795	
N40 Mode	(37,33)	(37,33)	

UNII-1			
Test Software Version	MP-TEST		
Frequency (MHz)	5180	5200	5240
AC20 Mode	(33,31)	(32,30)	(31,30)
Frequency (MHz)	5190	5230	
AC40 Mode	(33,32)	(33,31)	
Frequency (MHz)	5210		
AC80 Mode	(33,310)		

UNII-3			
Test Software Version	MP-TEST		
Frequency (MHz)	5745	5785	5825
AC20 Mode	(33,29)	(33,29)	(33,28)
Frequency (MHz)	5755	5795	
AC40 Mode	(34,290)	(33,29)	
Frequency (MHz)	5775		
AC80 Mode	(34,30)		

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.	Note
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	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 tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

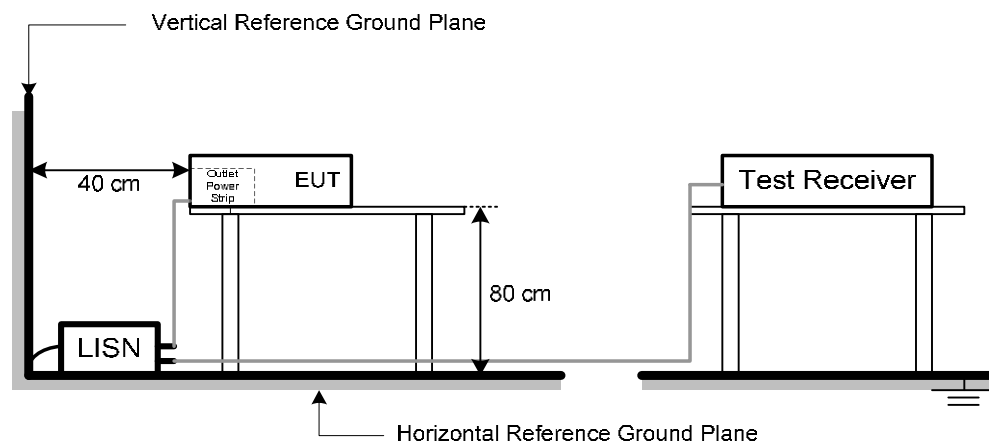
4.1.2 TEST PROCEDURE

- 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 plan
 3.The impedance of the outlet power strip is within $\pm 20\%$ limit values for the LISN impedance at the LISN terminals.

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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

4.1.6 EUT TEST CONDITIONS

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

4.1.7 TEST RESULTS

Please refer to the Attachment A.

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

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

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
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

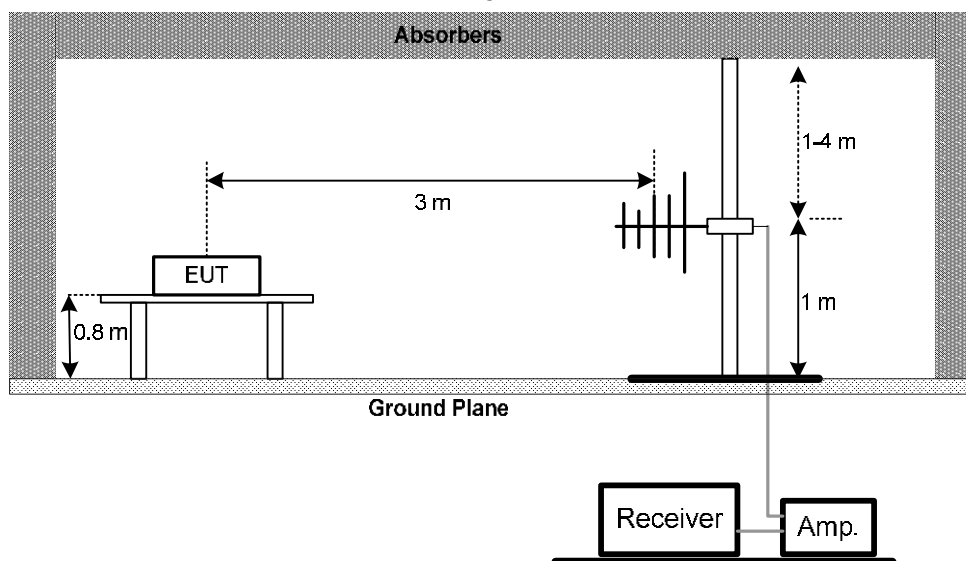
- The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

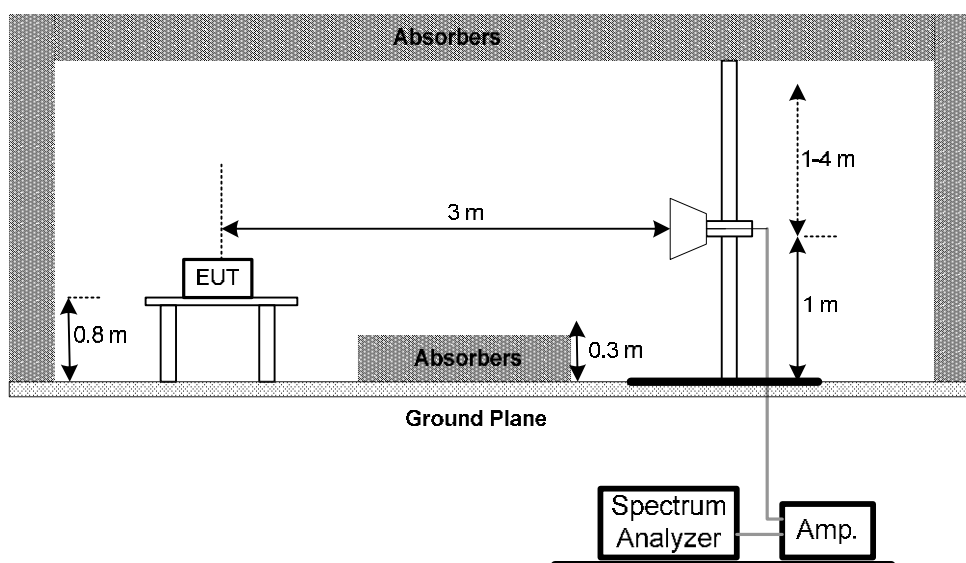
No deviation

4.2.4 TEST SETUP

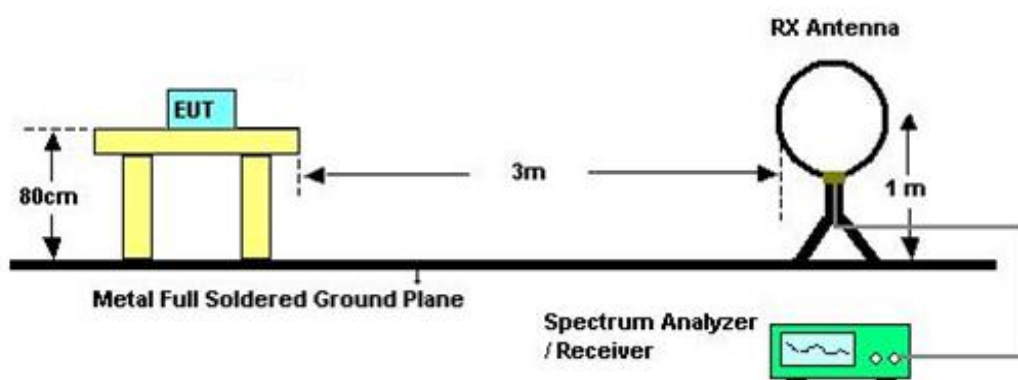
(A) Radiated Emission Test Set-Up Frequency 30 - 1000MHz



(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: 25°C Relative Humidity: 55% 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.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz ; SPA setting in RBW=120KHz, VBW=120KHz, Swp. Time = 0.3 sec./MHz ◦
- (2) 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 ◦
- (3) Measuring frequency range from 30MHz to 1000MHz ◦
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table ◦

4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Attachment D.

Remark:

- (1) Spectrum Setting: 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 40GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV Mode measurement didn't perform.
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (4) Data of measurement within this frequency range shown “ * ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (7) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.
- (8) 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: 25°C Relative Humidity: 55% 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

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.

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

6.1.6 TEST RESULTS

Please refer to the Attachment F.

7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

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

7.1.6 TEST RESULTS

Please refer to the Attachment G.

8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, 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	Max Hold
Sweep Time	Auto

Note:

- 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.
- 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.

8.1.1 DEVIATION FROM STANDARD

No deviation.

8.1.2 TEST SETUP



8.1.3 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.

8.1.4 EUT TEST CONDITIONS

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

8.1.5 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
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

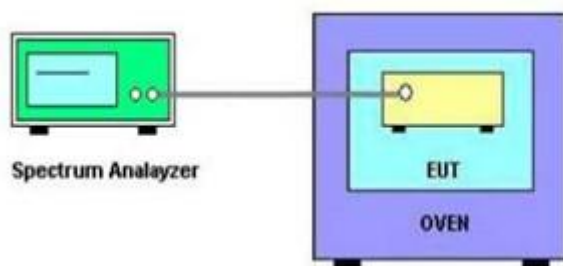
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is 0°C~40°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	00052765	Mar. 29, 2015
2	LISN	R&S	ENV216	101447	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 29, 2015
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 29, 2015
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

Radiated Emission Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 29, 2015
2	Amplifier	HP	8447D	2944A09673	Mar. 29, 2015
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015
5	Controller	CT	SC100	N/A	N/A
6	Antenna	ETS	3115	00075789	Mar. 29, 2015
7	Amplifier	Agilent	8449B	3008A02274	Mar. 29, 2015
8	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015
9	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015
10	Controller	CT	SC100	N/A	N/A
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Feb. 22, 2015
12	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 22, 2015
13	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Mar. 29, 2015
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	Nov. 02, 2015

Maximum Conducted Output Power Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	P-series Power meter	Agilent	N1911A	MY45100473	Mar. 29, 2015
2	Wireband Power sensor	Agilent	N1921A	MY51100041	Mar. 29, 2015

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

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

Frequency Stability Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015
2	Precision Oven Tester	HOLINK	H-T-1F-D	BA03101701	May. 24, 2015

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

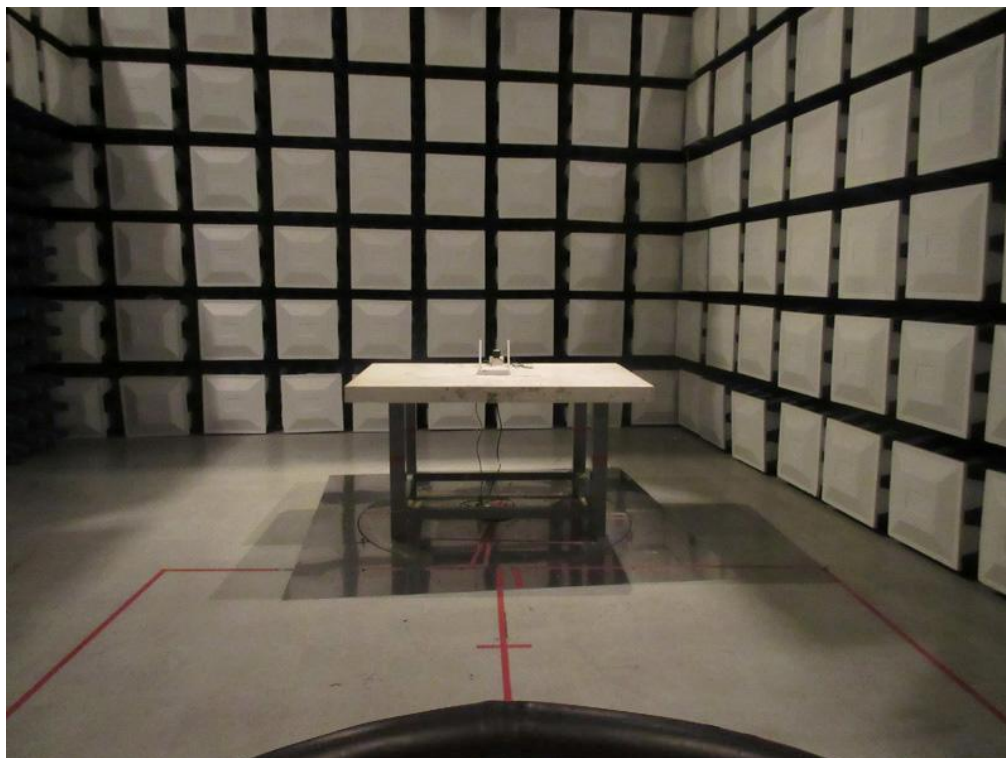
10.1. EUT TEST PHOTOS

Conducted Measurement Photos



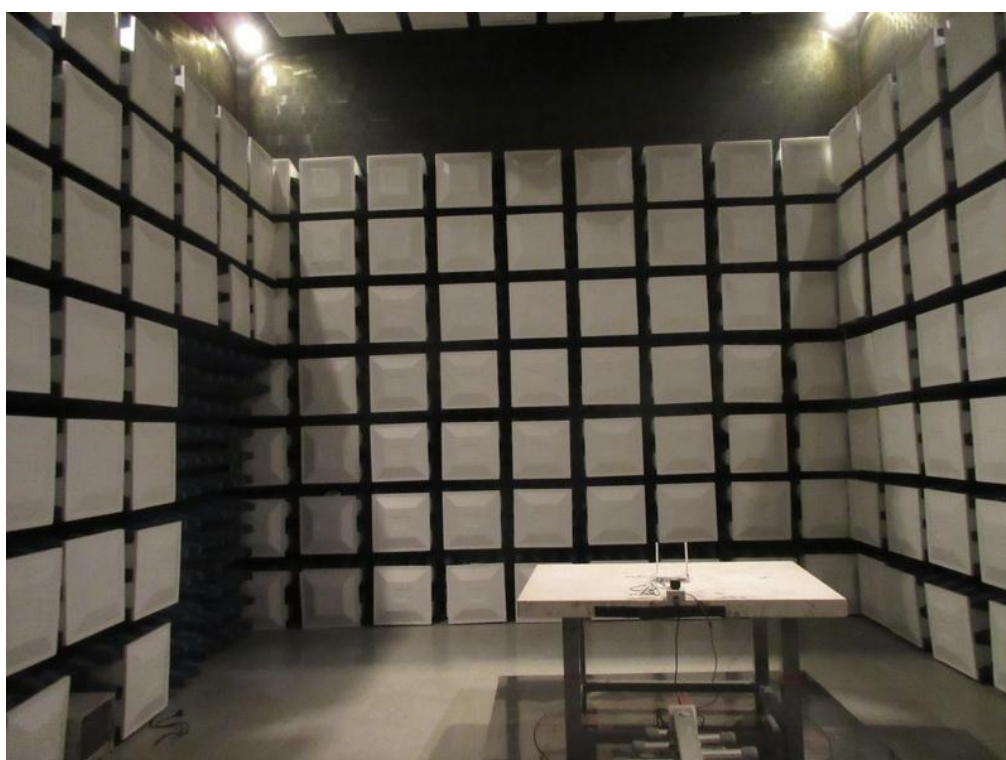
Radiated Measurement Photos

9KHz to 30MHz



Radiated Measurement Photos

30MHz to 1000MHz



Radiated Measurement Photos

Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode: TX MODE

Line

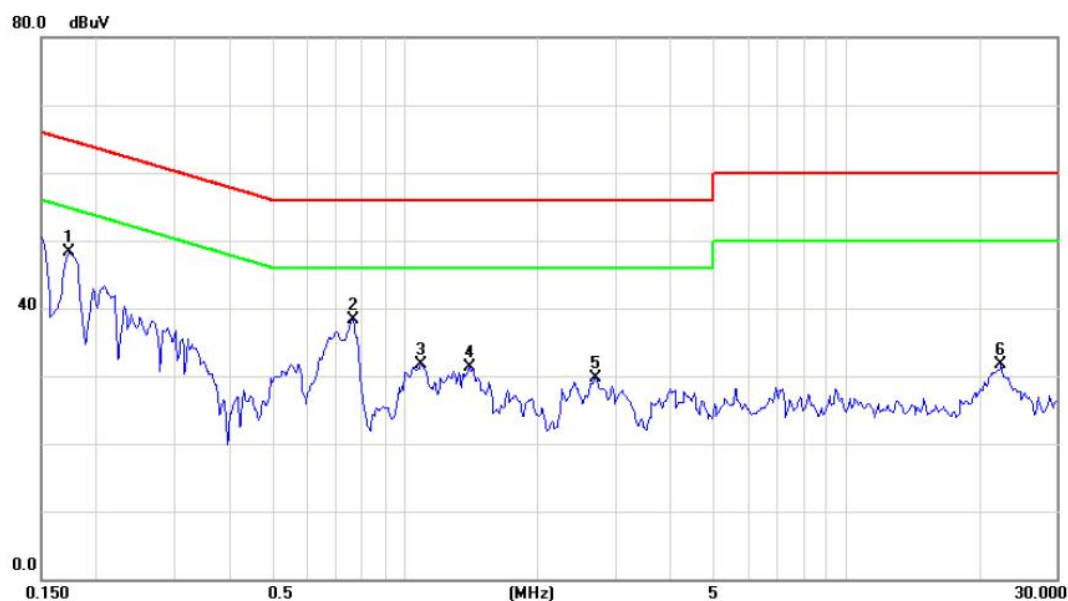


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1734	38.26	9.53	47.79	64.80	-17.01	peak	
2		0.2672	29.27	9.58	38.85	61.20	-22.35	peak	
3		0.7516	25.85	9.64	35.49	56.00	-20.51	peak	
4		2.3375	19.59	9.73	29.32	56.00	-26.68	peak	
5		7.9922	19.59	10.02	29.61	60.00	-30.39	peak	
6		22.1680	22.83	10.51	33.34	60.00	-26.66	peak	

Note : The test result has included the cable loss.

Test Mode: TX MODE

Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1734	38.66	9.62	48.28	64.80	-16.52	peak	
2		0.7632	28.66	9.67	38.33	56.00	-17.67	peak	
3		1.0914	22.07	9.68	31.75	56.00	-24.25	peak	
4		1.4040	21.61	9.70	31.31	56.00	-24.69	peak	
5		2.7086	20.03	9.77	29.80	56.00	-26.20	peak	
6		22.4180	21.00	10.62	31.62	60.00	-28.38	peak	

Note : The test result has included the cable loss.

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

Test Mode: TX MODE

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0090	0°	0.15	25.00	25.15	108.52	-83.37	AVG
0.0090	0°	8.62	25.00	33.62	128.52	-94.90	PEAK
0.0251	0°	1.51	23.98	25.49	99.61	-74.12	AVG
0.0251	0°	9.35	23.98	33.33	119.61	-86.28	PEAK
0.0313	0°	0.52	23.58	24.10	97.69	-73.59	AVG
0.0313	0°	8.74	23.58	32.32	117.69	-85.37	PEAK
0.0414	0°	1.87	22.94	24.81	95.26	-70.45	AVG
0.0414	0°	9.52	22.94	32.46	115.26	-82.80	PEAK
0.4821	0°	7.56	19.84	27.40	73.94	-46.54	QP
1.7366	0°	11.87	19.53	31.40	69.54	-38.14	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0093	90°	1.56	24.30	25.86	128.23	-102.37	AVG
0.0093	90°	11.98	24.30	36.28	148.23	-111.95	PEAK
0.0212	90°	1.72	24.22	25.94	121.08	-95.13	AVG
0.0212	90°	9.63	24.22	33.85	141.08	-107.22	PEAK
0.0317	90°	0.45	23.56	24.01	117.58	-93.57	AVG
0.0317	90°	9.25	23.56	32.81	137.58	-104.77	PEAK
0.0413	90°	0.58	22.95	23.53	115.29	-91.75	AVG
0.0413	90°	8.21	22.95	31.16	135.29	-104.12	PEAK
0.5343	90°	6.02	19.91	25.93	73.05	-47.12	QP
1.7289	90°	9.87	19.53	29.40	69.54	-40.14	QP

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

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	54.2500	57.30	-21.87	35.43	40.00	-4.57	peak	
2		250.1900	49.78	-17.19	32.59	46.00	-13.41	peak	
3		362.7100	52.83	-13.54	39.29	46.00	-6.71	peak	
4		375.3200	51.60	-13.27	38.33	46.00	-7.67	peak	
5		500.4500	50.73	-11.15	39.58	46.00	-6.42	peak	
6		750.7100	46.14	-6.34	39.80	46.00	-6.20	peak	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	250.1900	60.97	-17.19	43.78	46.00	-2.22	QP	
2	*	362.7100	58.13	-13.54	44.59	46.00	-1.41	QP	
3	!	375.3200	57.24	-13.27	43.97	46.00	-2.03	QP	
4		500.4500	46.66	-11.15	35.51	46.00	-10.49	peak	
5	!	625.5800	48.70	-8.45	40.25	46.00	-5.75	peak	
6		750.7100	43.32	-6.34	36.98	46.00	-9.02	peak	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	54.2500	56.80	-21.87	34.93	40.00	-5.07	peak	
2		125.0600	55.73	-22.40	33.33	43.50	-10.17	peak	
3		250.1900	48.28	-17.19	31.09	46.00	-14.91	peak	
4		375.3200	51.10	-13.27	37.83	46.00	-8.17	peak	
5		500.4500	49.73	-11.15	38.58	46.00	-7.42	peak	
6		750.7100	45.14	-6.34	38.80	46.00	-7.20	peak	

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

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1	!	250.1900	60.44	-17.19	43.25	46.00	-2.75	peak	
2	*	362.7100	57.28	-13.54	43.74	46.00	-2.26	QP	
3	!	375.3200	56.71	-13.27	43.44	46.00	-2.56	peak	
4		500.4500	46.16	-11.15	35.01	46.00	-10.99	peak	
5		625.5800	47.70	-8.45	39.25	46.00	-6.75	peak	
6		750.7100	41.82	-6.34	35.48	46.00	-10.52	peak	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	54.2500	57.80	-21.87	35.93	40.00	-4.07	peak	
2		125.0600	56.73	-22.40	34.33	43.50	-9.17	peak	
3		250.1900	49.78	-17.19	32.59	46.00	-13.41	peak	
4		362.7100	52.33	-13.54	38.79	46.00	-7.21	peak	
5		375.3200	51.10	-13.27	37.83	46.00	-8.17	peak	
6		500.4500	50.23	-11.15	39.08	46.00	-6.92	peak	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	250.1900	60.44	-17.19	43.25	46.00	-2.75	peak	
2	*	362.7100	57.23	-13.54	43.69	46.00	-2.31	QP	
3	!	375.3200	56.71	-13.27	43.44	46.00	-2.56	peak	
4		500.4500	47.16	-11.15	36.01	46.00	-9.99	peak	
5		625.5800	48.20	-8.45	39.75	46.00	-6.25	peak	
6		750.7100	43.32	-6.34	36.98	46.00	-9.02	peak	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	54.2500	57.30	-21.87	35.43	40.00	-4.57	peak	
2		125.0600	55.73	-22.40	33.33	43.50	-10.17	peak	
3		250.1900	49.28	-17.19	32.09	46.00	-13.91	peak	
4		362.7100	51.83	-13.54	38.29	46.00	-7.71	peak	
5		375.3200	50.60	-13.27	37.33	46.00	-8.67	peak	
6		500.4500	49.73	-11.15	38.58	46.00	-7.42	peak	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		196.8400	52.61	-20.35	32.26	43.50	-11.24	peak	
2	!	250.1900	60.44	-17.19	43.25	46.00	-2.75	peak	
3	*	362.7100	57.56	-13.54	44.02	46.00	-1.98	QP	
4	!	375.3200	57.23	-13.27	43.96	46.00	-2.04	QP	
5		500.4500	45.66	-11.15	34.51	46.00	-11.49	peak	
6		625.5800	47.70	-8.45	39.25	46.00	-6.75	peak	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	57.1600	58.22	-22.53	35.69	40.00	-4.31	peak	
2		125.0600	56.73	-22.40	34.33	43.50	-9.17	peak	
3		195.8700	49.98	-20.41	29.57	43.50	-13.93	peak	
4		250.1900	50.28	-17.19	33.09	46.00	-12.91	peak	
5	!	362.7100	53.83	-13.54	40.29	46.00	-5.71	peak	
6	!	500.4500	51.73	-11.15	40.58	46.00	-5.42	peak	

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

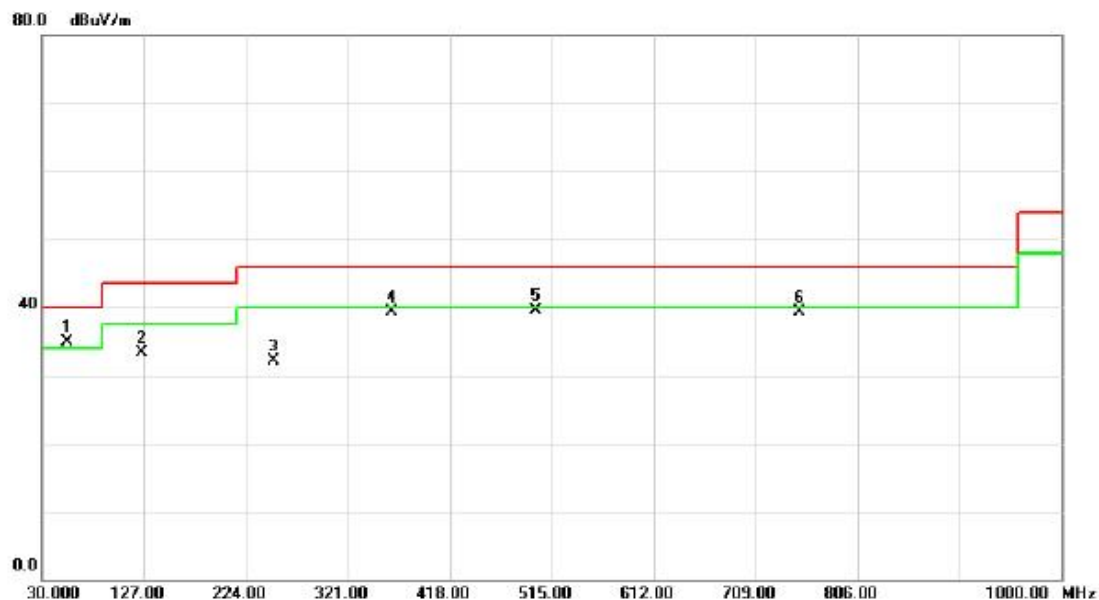
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	!	250.1900	60.44	-17.19	43.25	46.00	-2.75	peak	
2	*	362.7100	57.08	-13.54	43.54	46.00	-2.46	QP	
3	!	375.3200	56.71	-13.27	43.44	46.00	-2.56	peak	
4		500.4500	46.66	-11.15	35.51	46.00	-10.49	peak	
5		625.5800	48.20	-8.45	39.75	46.00	-6.25	peak	
6		750.7100	43.32	-6.34	36.98	46.00	-9.02	peak	

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

Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment				
			dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	54.2500	56.80	-21.87	34.93	40.00	-5.07	peak	
2		125.0600	55.73	-22.40	33.33	43.50	-10.17	peak	
3		250.1900	49.28	-17.19	32.09	46.00	-13.91	peak	
4		362.7100	52.83	-13.54	39.29	46.00	-6.71	peak	
5		500.4500	50.73	-11.15	39.58	46.00	-6.42	peak	
6		750.7100	45.64	-6.34	39.30	46.00	-6.70	peak	

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

Horizontal

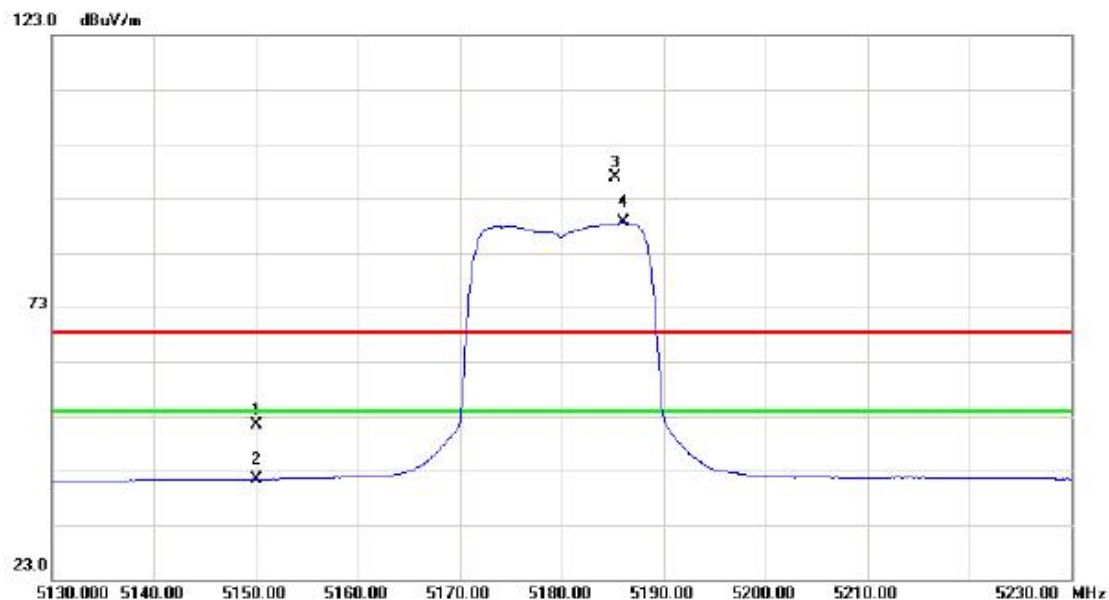


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	!	250.1900	59.44	-17.19	42.25	46.00	-3.75	peak	
2	*	362.7100	57.11	-13.54	43.57	46.00	-2.43	QP	
3	!	375.3200	55.71	-13.27	42.44	46.00	-3.56	peak	
4		500.4500	47.66	-11.15	36.51	46.00	-9.49	peak	
5		625.5800	48.20	-8.45	39.75	46.00	-6.25	peak	
6		750.7100	43.32	-6.34	36.98	46.00	-9.02	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	9.92	41.39	51.31	68.30	-16.99	peak	
2		5150.000	0.08	41.39	41.47	54.00	-12.53	AVG	
3	X	5185.300	55.33	41.51	96.84	68.30	28.54	peak	no limit
4	*	5186.100	47.04	41.51	88.55	54.00	34.55	AVG	no limit

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

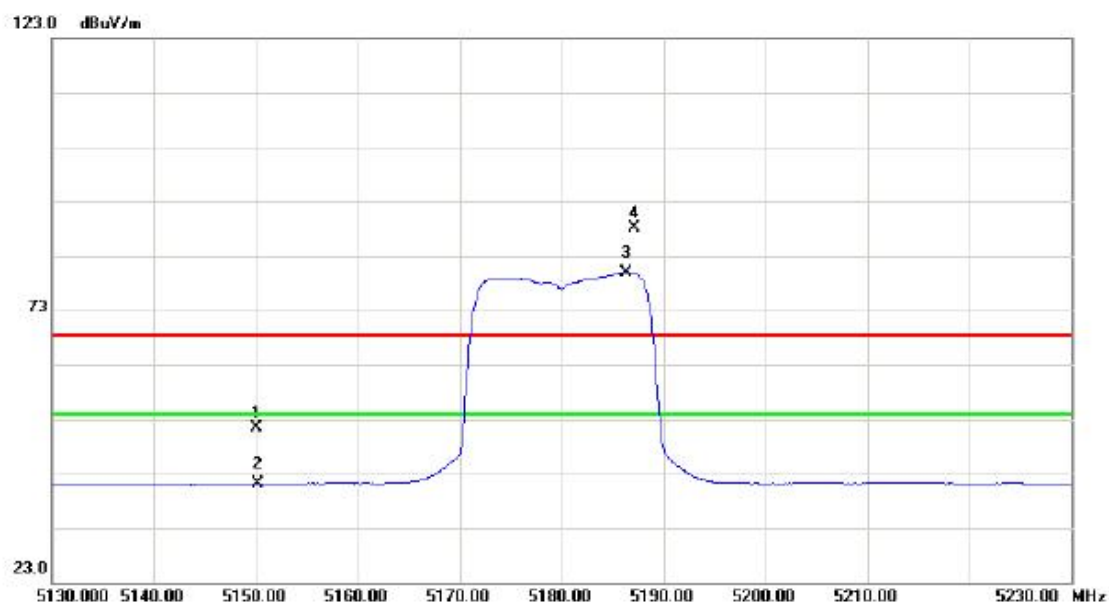
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10362.12	36.48	11.10	47.58	68.30	-20.72	peak	
2	*	10364.12	27.22	11.10	38.32	54.00	-15.68	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	9.99	41.39	51.38	68.30	-16.92	peak	
2		5150.000	-0.26	41.39	41.13	54.00	-12.87	AVG	
3	*	5186.300	38.46	41.51	79.97	54.00	25.97	AVG	no limit
4	X	5187.100	46.58	41.51	88.09	68.30	19.79	peak	no limit

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

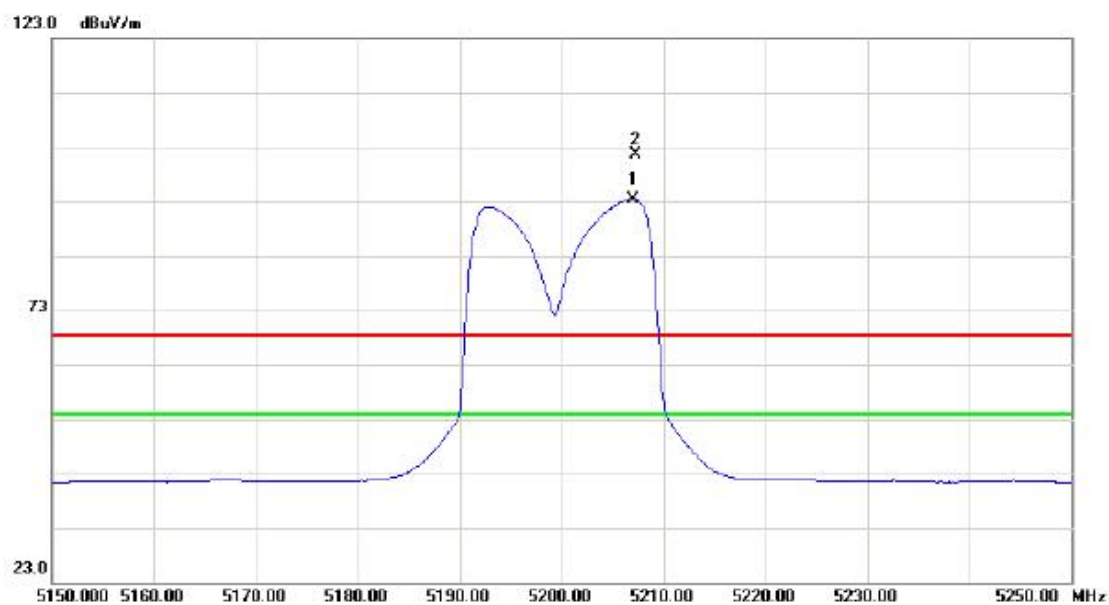
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10360.31	34.77	11.10	45.87	68.30	-22.43	peak	
2	*	10360.31	26.57	11.10	37.67	54.00	-16.33	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5207.000	51.77	41.58	93.35	54.00	39.35	AVG	no limit
2	X	5207.200	60.14	41.58	101.72	68.30	33.42	peak	no limit

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

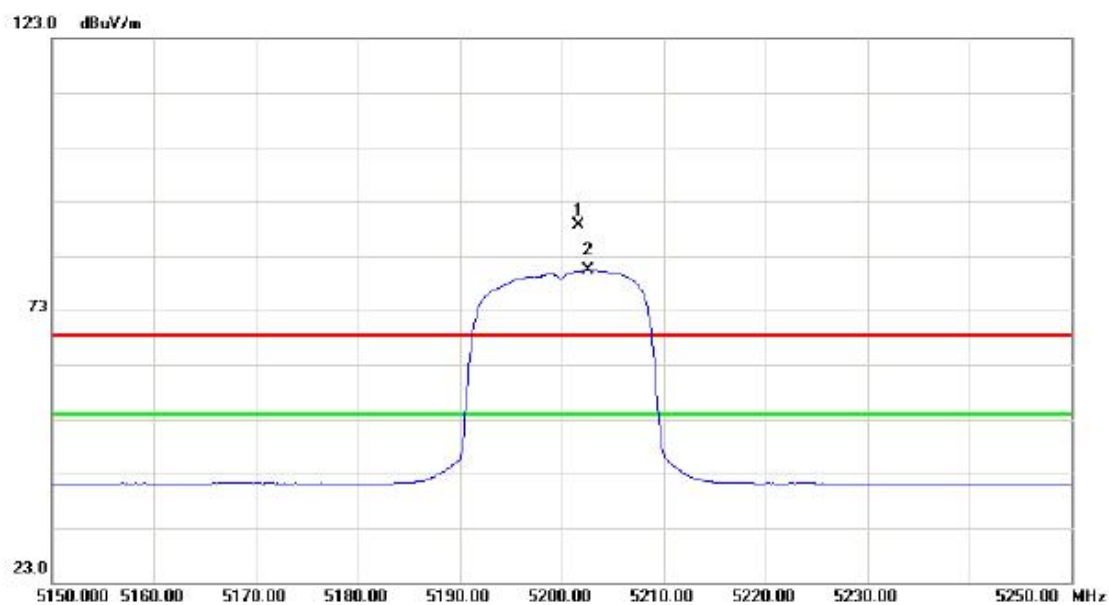
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10400.02	36.08	11.05	47.13	68.30	-21.17	peak	
2	*	10400.02	26.51	11.05	37.56	54.00	-16.44	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5201.600	47.10	41.56	88.66	68.30	20.36	peak	no limit
2	*	5202.600	38.89	41.56	80.45	54.00	26.45	AVG	no limit

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

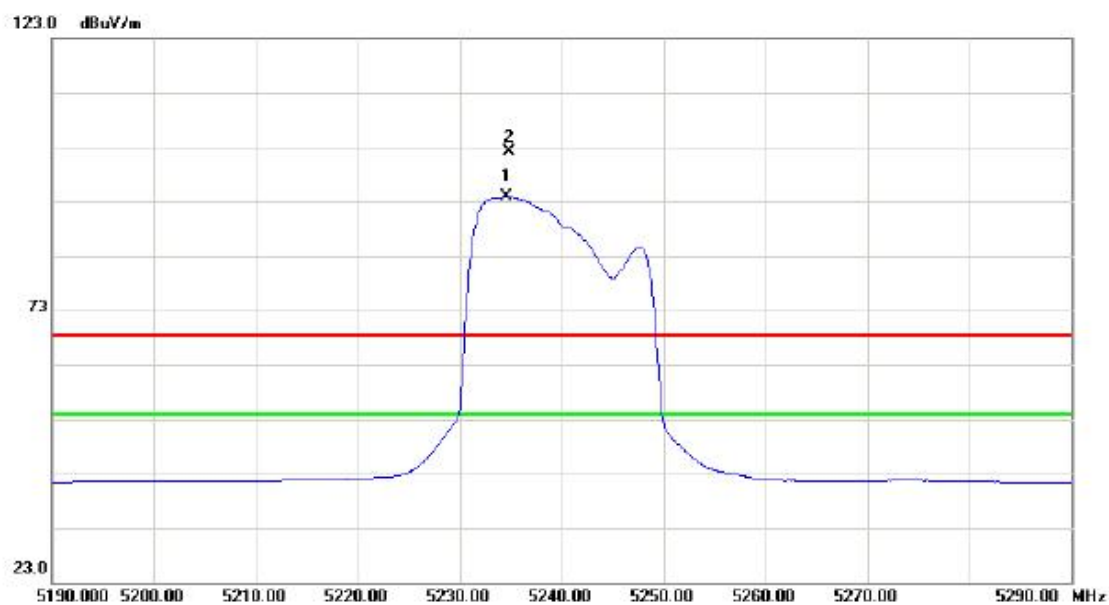
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10400.13	37.14	11.05	48.19	68.30	-20.11	peak	
2	*	10400.13	26.53	11.05	37.58	54.00	-16.42	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5234.600	52.16	41.66	93.82	54.00	39.82	AVG	no limit
2	X	5234.800	60.58	41.67	102.25	68.30	33.95	peak	no limit

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

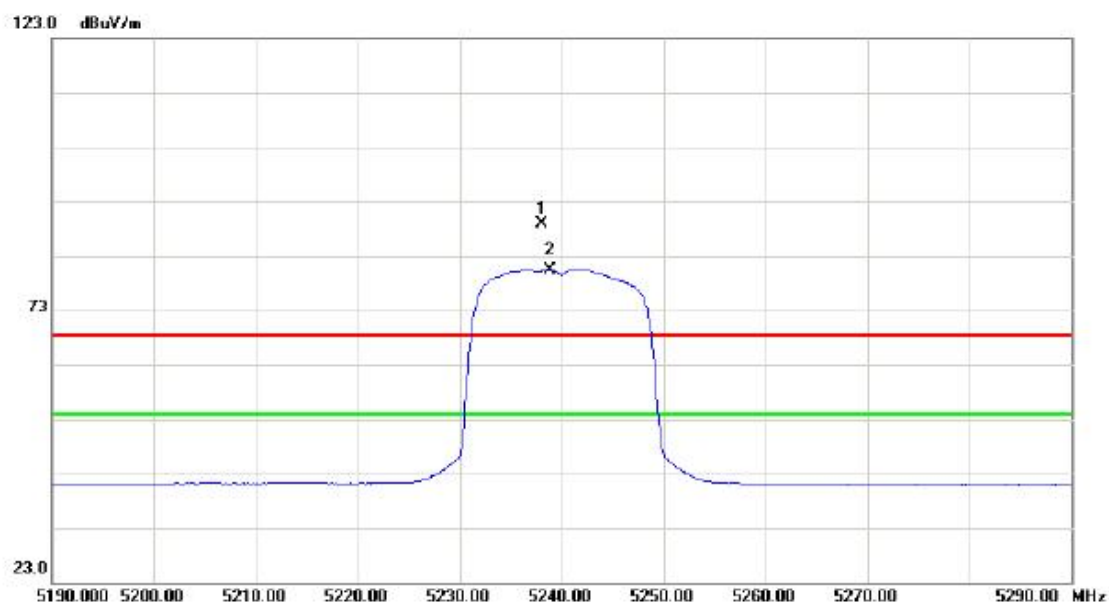
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10481.31	38.71	10.94	49.65	68.30	-18.65	peak	
2	*	10481.31	29.27	10.94	40.21	54.00	-13.79	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5238.100	47.22	41.68	88.90	68.30	20.60	peak	no limit
2	*	5238.800	38.79	41.68	80.47	54.00	26.47	AVG	no limit

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

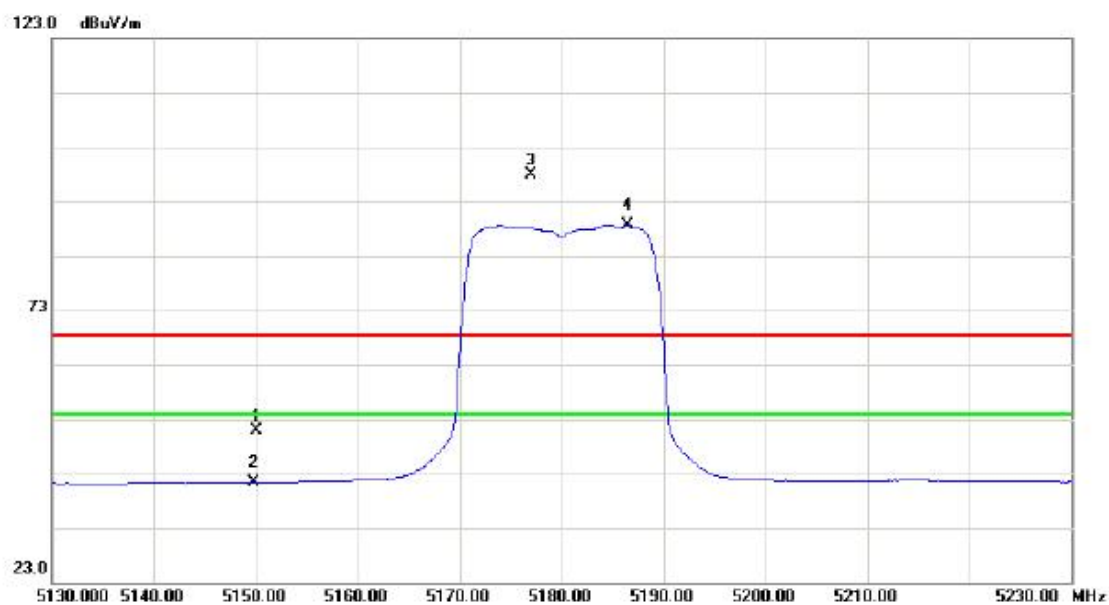
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10480.14	36.62	10.94	47.56	68.30	-20.74	peak	
2	*	10480.14	26.20	10.94	37.14	54.00	-16.86	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	9.40	41.39	50.79	68.30	-17.51	peak	
2		5150.000	0.03	41.39	41.42	54.00	-12.58	AVG	
3	X	5177.000	56.40	41.48	97.88	68.30	29.58	peak	no limit
4	*	5186.400	47.07	41.51	88.58	54.00	34.58	AVG	no limit

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

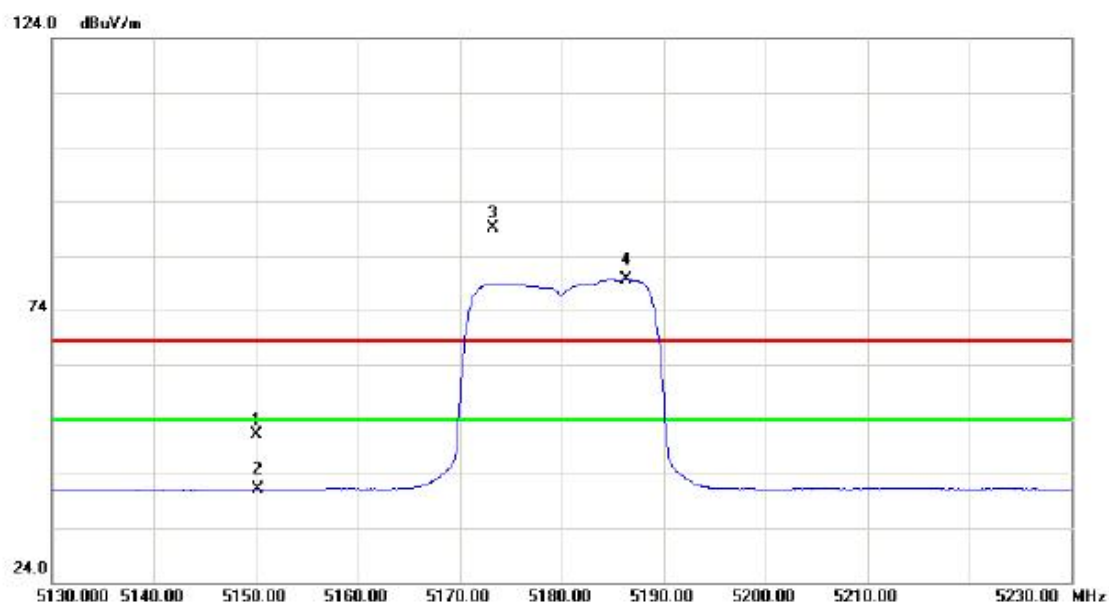
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10361.75	40.55	11.10	51.65	68.30	-16.65	peak	
2	*	10361.75	27.02	11.10	38.12	54.00	-15.88	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	9.62	41.39	51.01	68.30	-17.29	peak	
2		5150.000	-0.25	41.39	41.14	54.00	-12.86	AVG	
3	X	5173.200	47.66	41.46	89.12	68.30	20.82	peak	no limit
4	*	5186.300	38.11	41.51	79.62	54.00	25.62	AVG	no limit

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

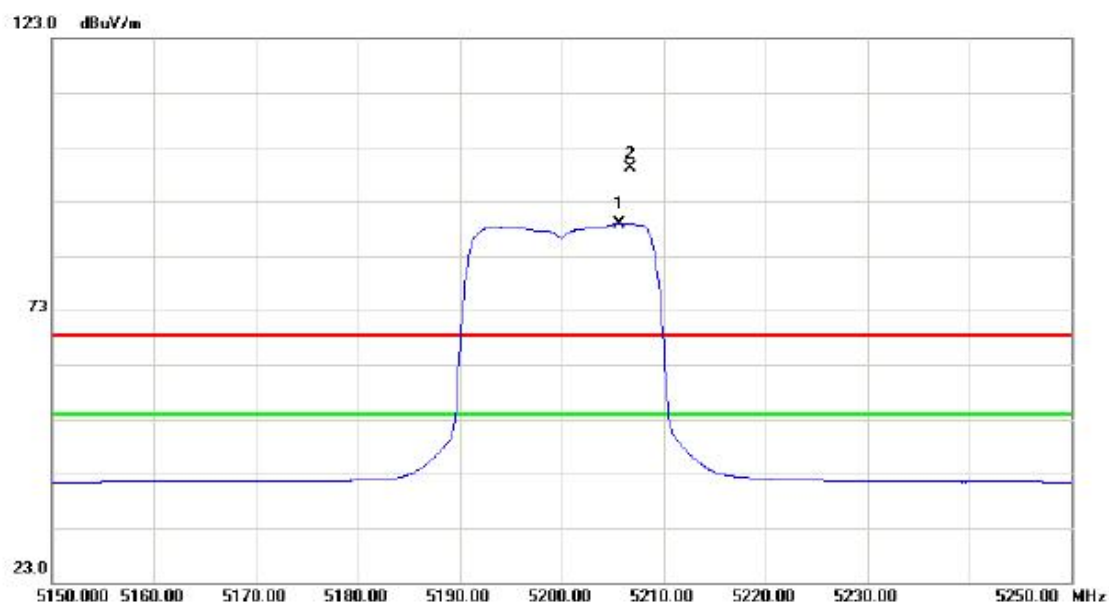
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10360.99	40.68	11.10	51.78	68.30	-16.52	peak	
2	*	10360.99	28.15	11.10	39.25	54.00	-14.75	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5205.700	47.42	41.57	88.99	54.00	34.99	AVG	no limit
2	X	5206.700	57.51	41.57	99.08	68.30	30.78	peak	no limit

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

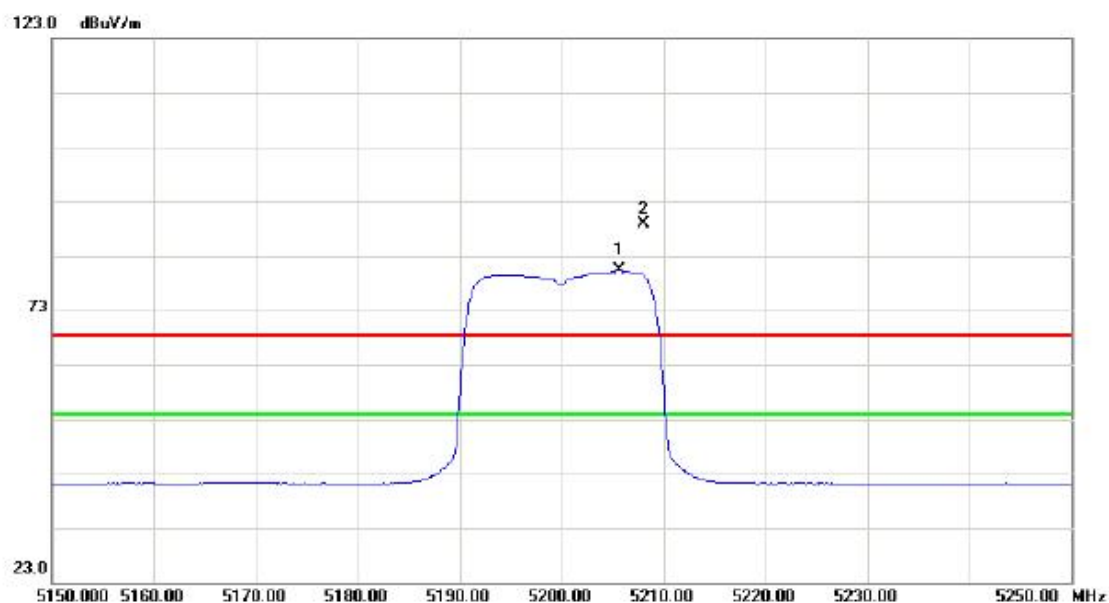
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10400.52	37.59	11.05	48.64	68.30	-19.66	peak	
2	*	10400.52	26.73	11.05	37.78	54.00	-16.22	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5205.700	38.69	41.57	80.26	54.00	26.26	AVG	no limit
2	X	5208.000	47.30	41.58	88.88	68.30	20.58	peak	no limit

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

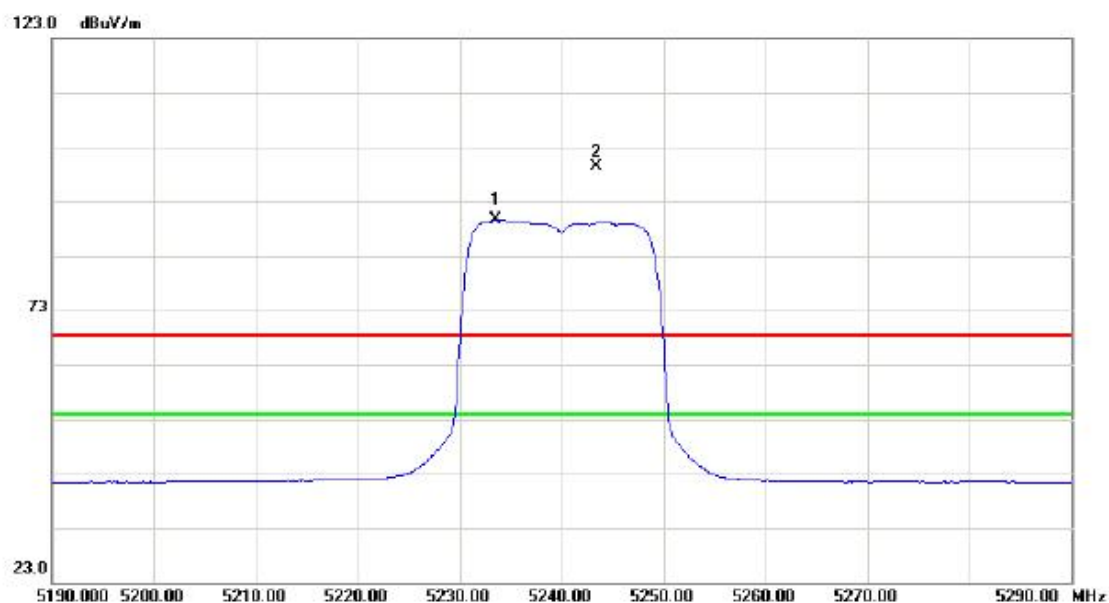
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10400.82	37.71	11.05	48.76	68.30	-19.54	peak	
2	*	10400.82	26.83	11.05	37.88	54.00	-16.12	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5233.500	47.90	41.66	89.56	54.00	35.56	AVG	no limit
2	X	5243.400	57.62	41.70	99.32	68.30	31.02	peak	no limit

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

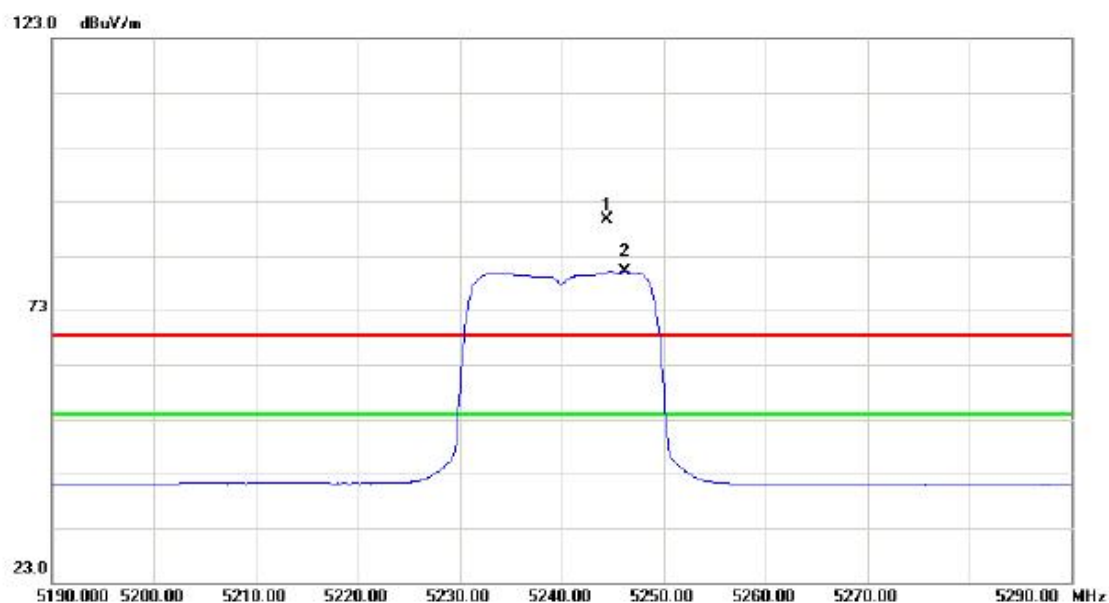
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10481.22	37.22	10.94	48.16	68.30	-20.14	peak	
2	*	10481.22	26.58	10.94	37.52	54.00	-16.48	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5244.500	47.89	41.70	89.59	68.30	21.29	peak	no limit
2	*	5246.200	38.35	41.71	80.06	54.00	26.06	AVG	no limit

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

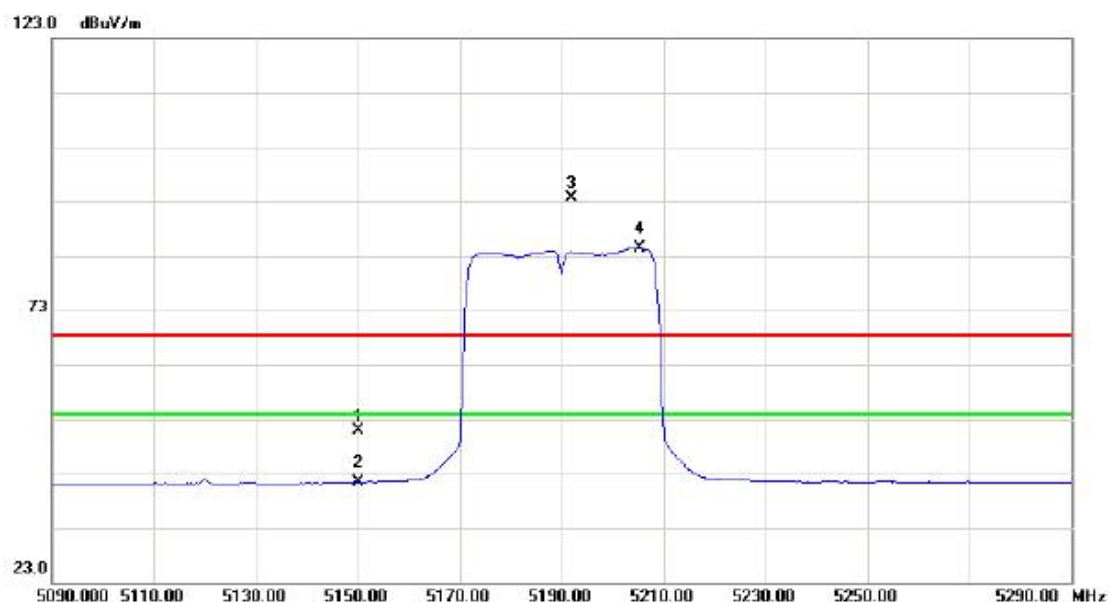
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10481.55	38.23	10.94	49.17	68.30	-19.13	peak	
2	*	10481.55	25.23	10.94	36.17	54.00	-17.83	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	9.59	41.39	50.98	68.30	-17.32	peak	
2		5150.000	0.09	41.39	41.48	54.00	-12.52	AVG	
3	X	5192.000	52.14	41.52	93.66	68.30	25.36	peak	no limit
4	*	5205.400	42.90	41.57	84.47	54.00	30.47	AVG	no limit

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

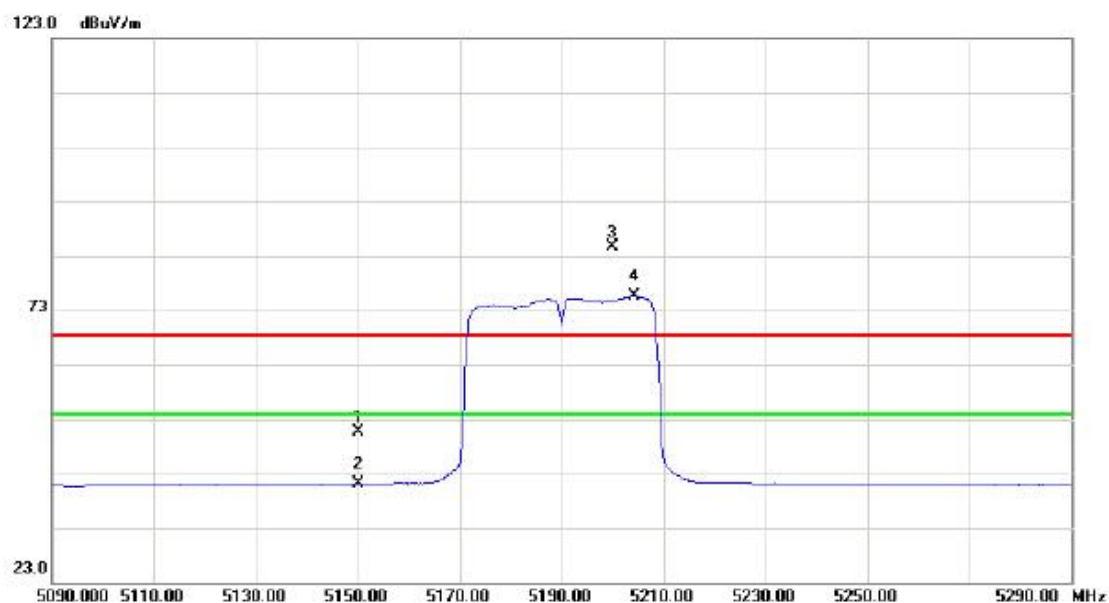
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10380.64	38.47	11.08	49.55	68.30	-18.75	peak	
2	*	10380.64	26.14	11.08	37.22	54.00	-16.78	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		5150.000	9.24	41.39	50.63	68.30	-17.67	peak	
2		5150.000	-0.23	41.39	41.16	54.00	-12.84	AVG	
3	X	5200.000	43.07	41.55	84.62	68.30	16.32	peak	no limit
4	*	5204.200	34.01	41.57	75.58	54.00	21.58	AVG	no limit

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

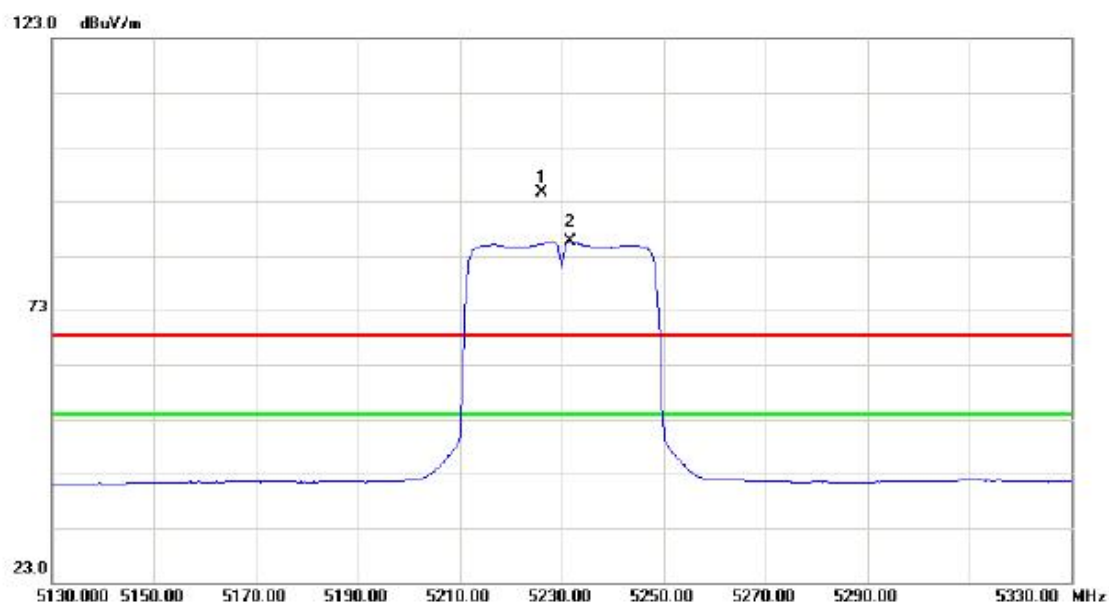
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10383.54	36.16	11.08	47.24	68.30	-21.06	peak	
2	*	10383.54	25.90	11.08	36.98	54.00	-17.02	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5226.200	53.12	41.63	94.75	68.30	26.45	peak	no limit
2	*	5231.600	43.93	41.65	85.58	54.00	31.58	AVG	no limit

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

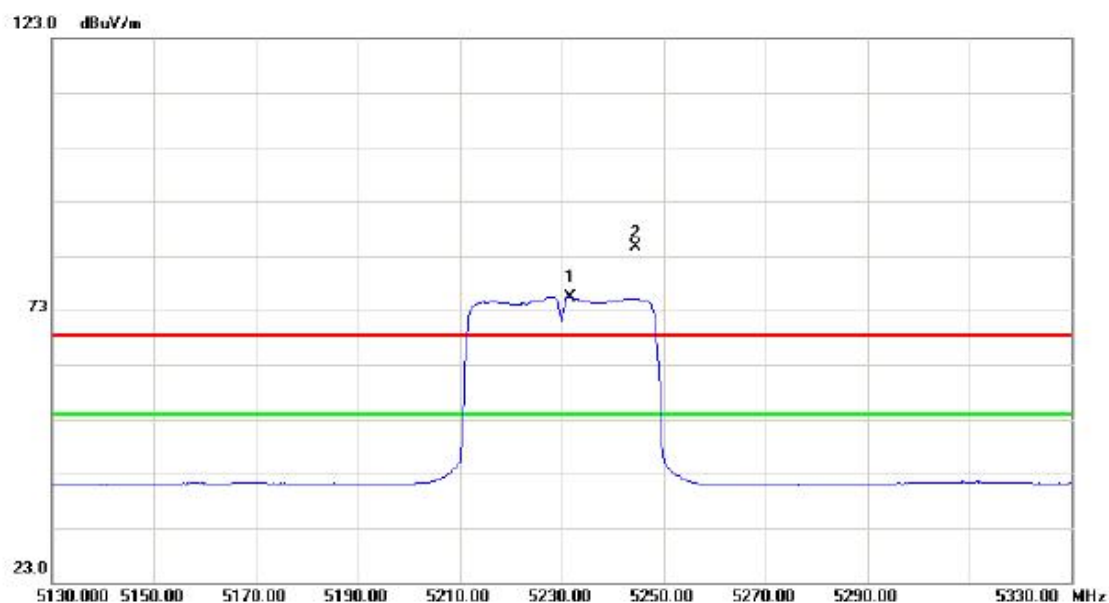
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10460.00	35.38	10.96	46.34	68.30	-21.96	peak	
2	*	10460.00	24.86	10.96	35.82	54.00	-18.18	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5231.600	33.71	41.65	75.36	54.00	21.36	AVG	no limit
2	X	5244.600	43.00	41.70	84.70	68.30	16.40	peak	no limit

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

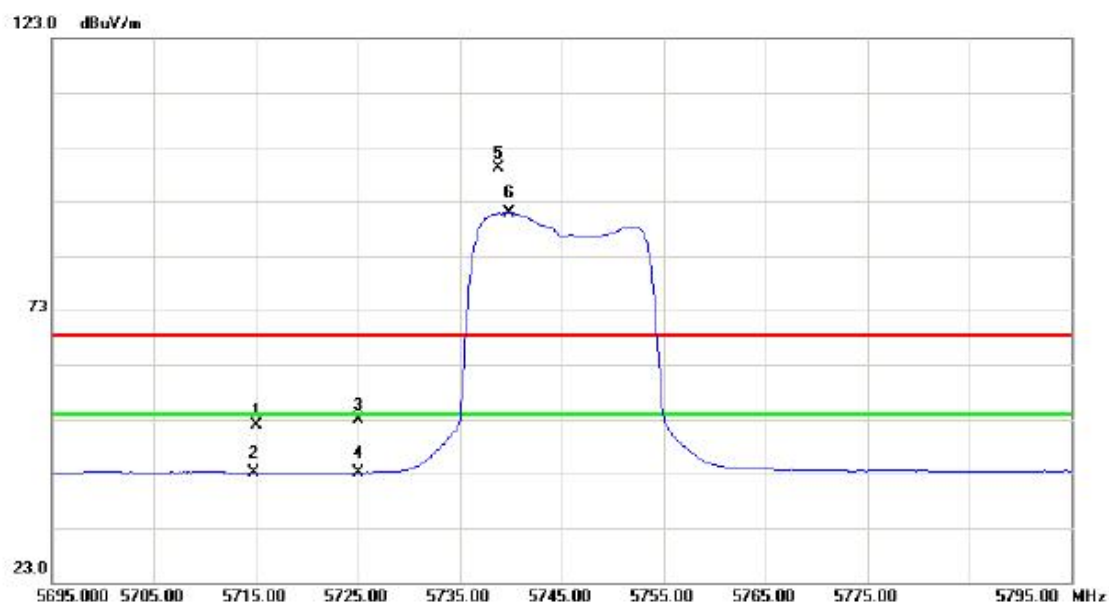
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10461.84	37.55	10.96	48.51	68.30	-19.79	peak	
2	*	10461.84	26.67	10.96	37.63	54.00	-16.37	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5715.000	8.45	43.47	51.92	68.30	-16.38	peak	
2		5715.000	-0.38	43.47	43.09	54.00	-10.91	AVG	
3		5725.000	9.43	43.51	52.94	68.30	-15.36	peak	
4		5725.000	-0.29	43.51	43.22	54.00	-10.78	AVG	
5	X	5738.800	55.54	43.57	99.11	68.30	30.81	peak	no limit
6	*	5739.800	47.30	43.58	90.88	54.00	36.88	AVG	no limit

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

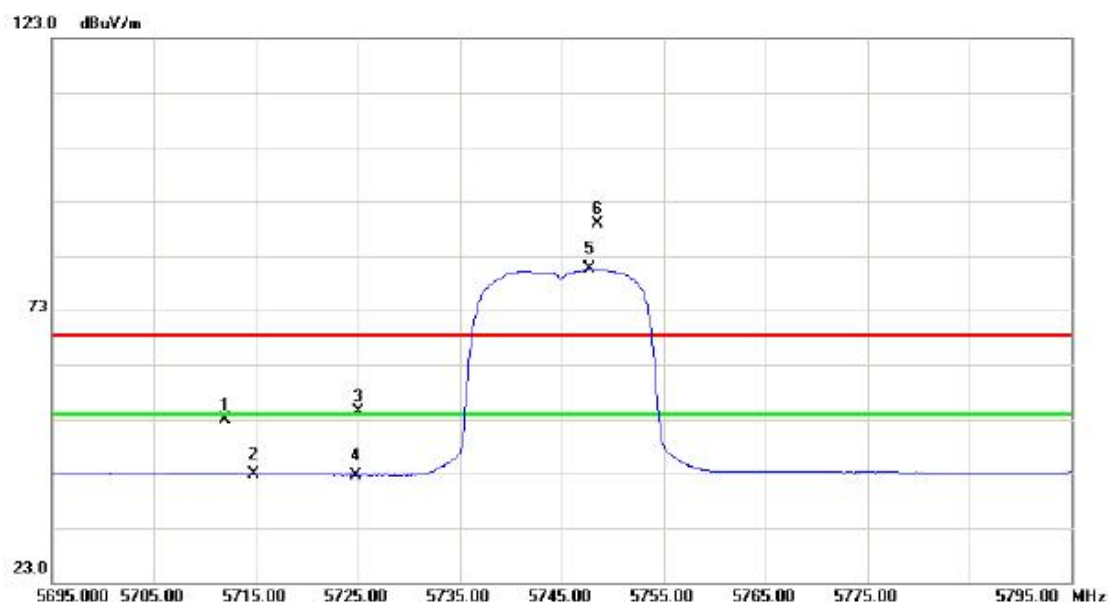
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11491.47	37.43	12.91	50.34	68.30	-17.96	peak	
2	*	11491.47	25.64	12.91	38.55	54.00	-15.45	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5712.000	9.42	43.45	52.87	68.30	-15.43	peak	
2		5715.000	-0.58	43.47	42.89	54.00	-11.11	AVG	
3		5725.000	10.80	43.51	54.31	68.30	-13.99	peak	
4		5725.000	-0.82	43.51	42.69	54.00	-11.31	AVG	
5	*	5747.700	36.93	43.61	80.54	54.00	26.54	AVG	no limit
6	X	5748.500	45.36	43.61	88.97	68.30	20.67	peak	no limit

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

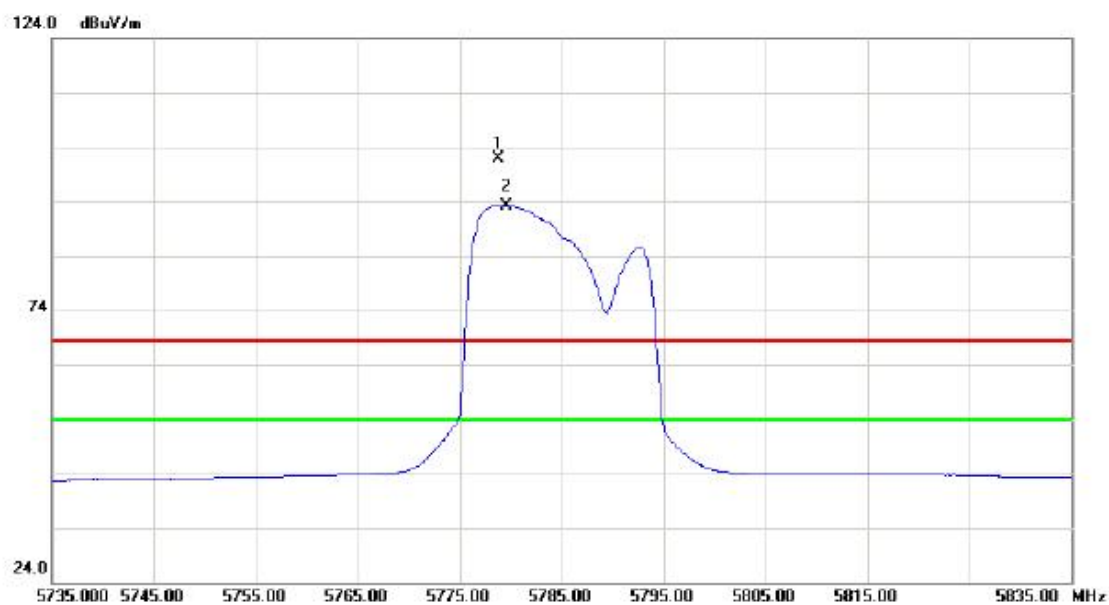
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11491.72	35.85	12.91	48.76	68.30	-19.54	peak	
2	*	11491.72	24.75	12.91	37.66	54.00	-16.34	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5778.800	58.04	43.75	101.79	68.30	33.49	peak	no limit
2	*	5779.600	49.49	43.75	93.24	54.00	39.24	AVG	no limit

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

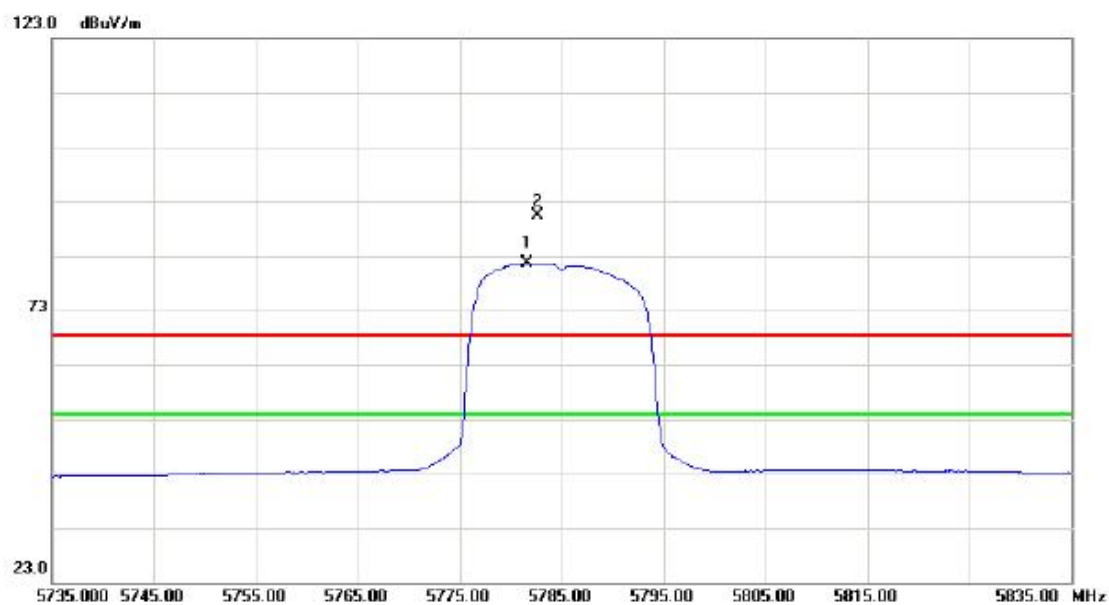
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.98	35.88	12.89	48.77	68.30	-19.53	peak	
2	*	11570.98	23.36	12.89	36.25	54.00	-17.75	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5781.600	37.97	43.76	81.73	54.00	27.73	AVG	no limit
2	X	5782.600	46.58	43.76	90.34	68.30	22.04	peak	no limit

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

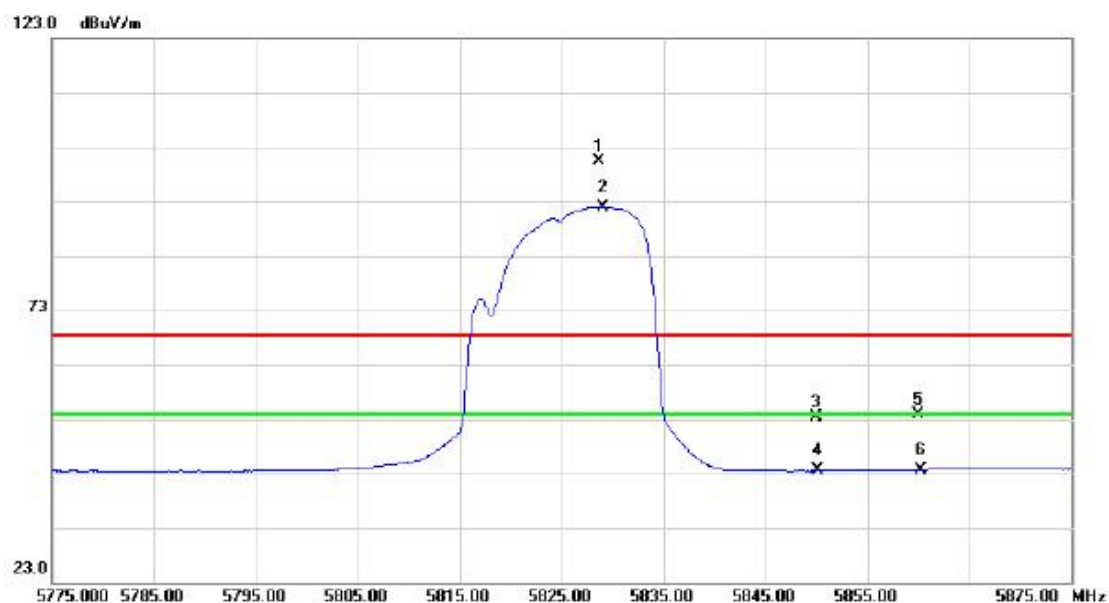
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11572.89	36.99	12.89	49.88	68.30	-18.42	peak	
2	*	11572.89	26.23	12.89	39.12	54.00	-14.88	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5828.600	56.30	43.97	100.27	68.30	31.97	peak	no limit
2	*	5829.100	47.97	43.97	91.94	54.00	37.94	AVG	no limit
3		5850.000	9.33	44.06	53.39	68.30	-14.91	peak	
4		5850.000	-0.52	44.06	43.54	54.00	-10.46	AVG	
5		5860.000	9.69	44.10	53.79	68.30	-14.51	peak	
6		5860.000	-0.44	44.10	43.66	54.00	-10.34	AVG	

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

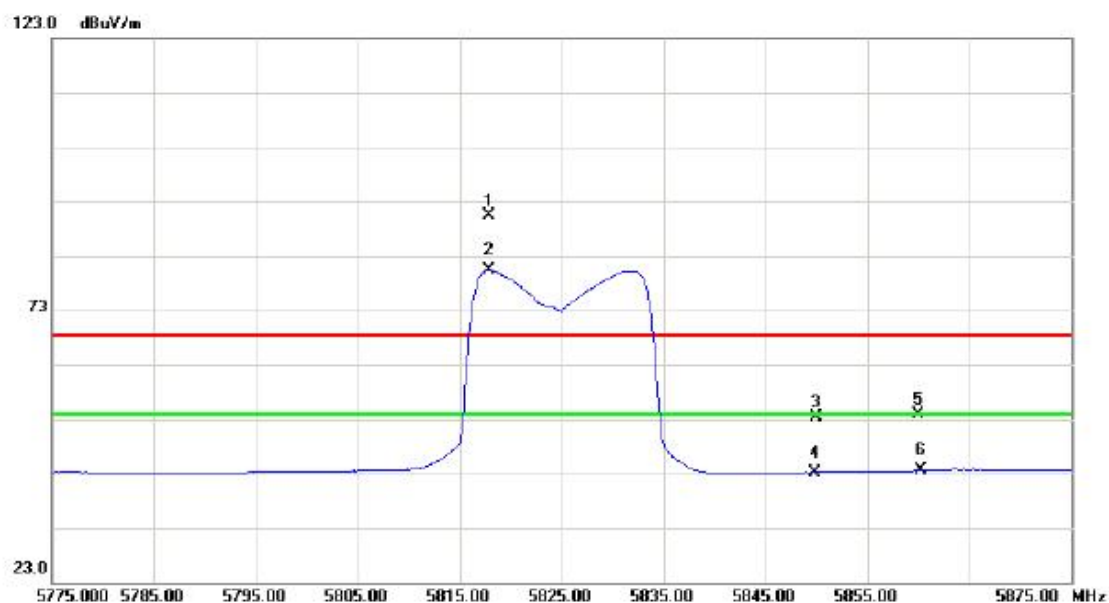
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11651.77	37.62	12.84	50.46	68.30	-17.84	peak	
2	*	11651.77	25.73	12.84	38.57	54.00	-15.43	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5817.900	46.34	43.92	90.26	68.30	21.96	peak	no limit
2	*	5817.900	36.41	43.92	80.33	54.00	26.33	AVG	no limit
3		5850.000	9.41	44.06	53.47	68.30	-14.83	peak	
4		5850.000	-0.83	44.06	43.23	54.00	-10.77	AVG	
5		5860.000	9.85	44.10	53.95	68.30	-14.35	peak	
6		5860.000	-0.54	44.10	43.56	54.00	-10.44	AVG	

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

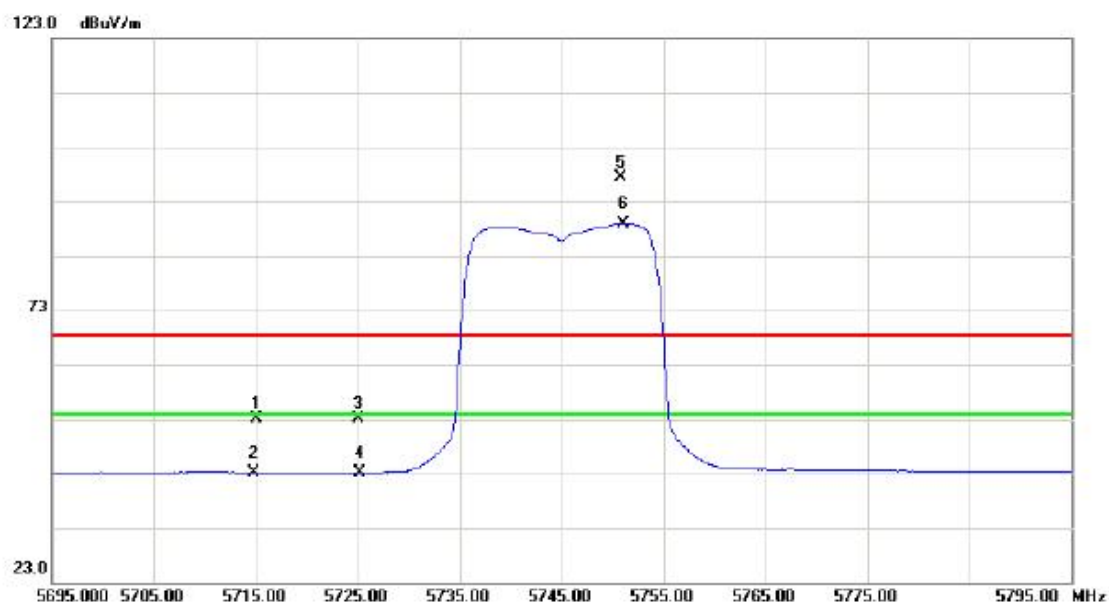
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11651.16	37.95	12.84	50.79	68.30	-17.51	peak	
2	*	11651.16	26.30	12.84	39.14	54.00	-14.86	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5715.000	9.71	43.47	53.18	68.30	-15.12	peak	
2		5715.000	-0.35	43.47	43.12	54.00	-10.88	AVG	
3		5725.000	9.52	43.51	53.03	68.30	-15.27	peak	
4		5725.000	-0.39	43.51	43.12	54.00	-10.88	AVG	
5	X	5750.800	53.84	43.62	97.46	68.30	29.16	peak	no limit
6	*	5751.000	45.32	43.62	88.94	54.00	34.94	AVG	no limit

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

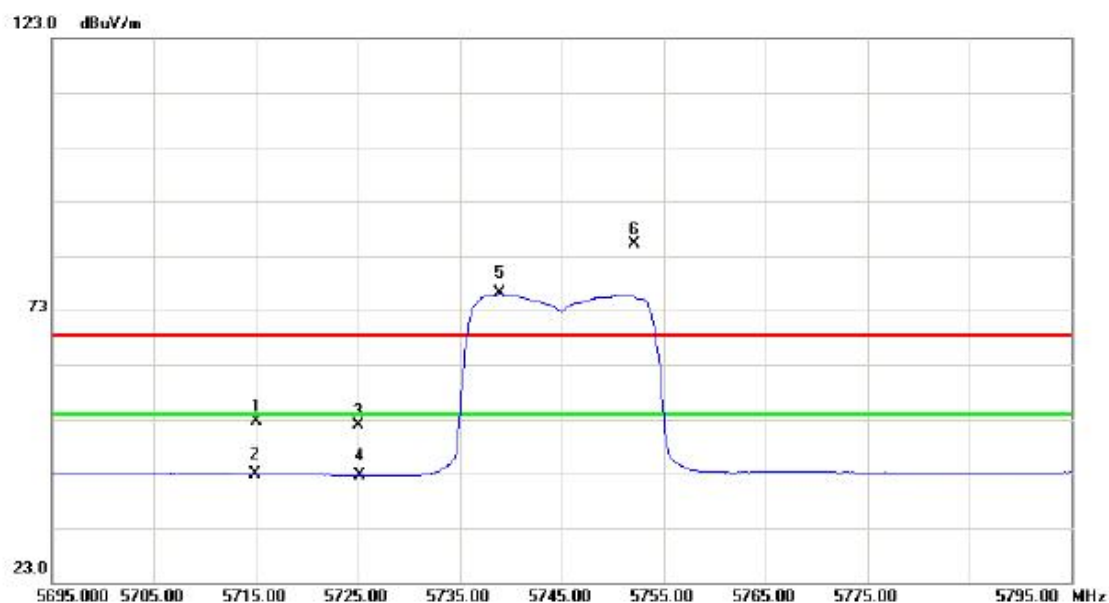
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11492.74	34.21	12.92	47.13	68.30	-21.17	peak	
2	*	11492.74	24.27	12.92	37.19	54.00	-16.81	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5715.000	9.17	43.47	52.64	68.30	-15.66	peak	
2		5715.000	-0.61	43.47	42.86	54.00	-11.14	AVG	
3		5725.000	8.38	43.51	51.89	68.30	-16.41	peak	
4		5725.000	-0.84	43.51	42.67	54.00	-11.33	AVG	
5	*	5738.900	32.45	43.57	76.02	54.00	22.02	AVG	no limit
6	X	5752.100	41.50	43.63	85.13	68.30	16.83	peak	no limit

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

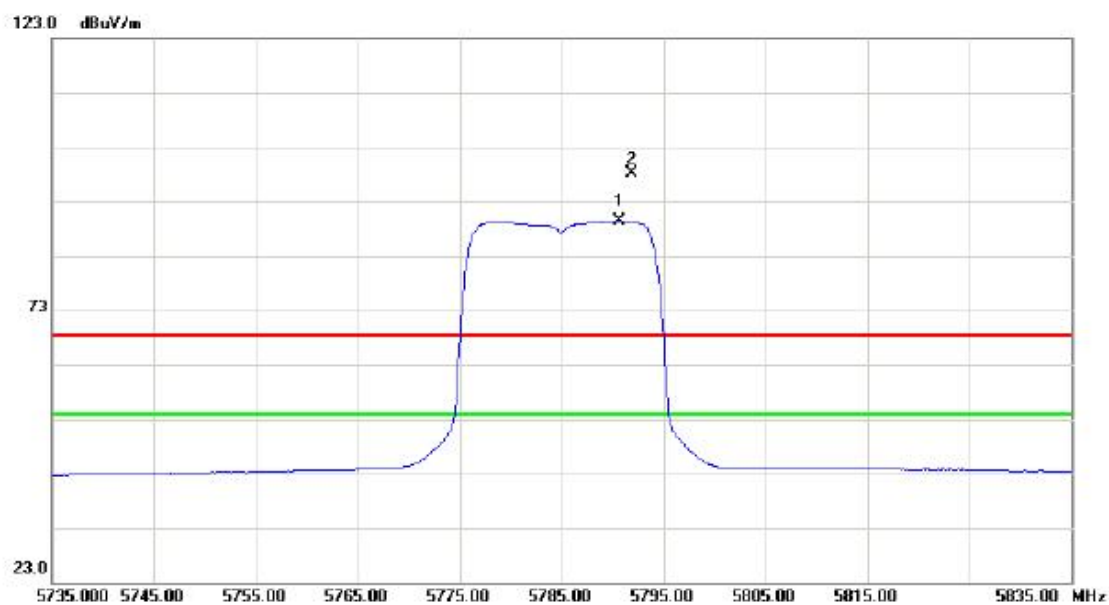
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11490.34	35.42	12.91	48.33	68.30	-19.97	peak	
2	*	11490.34	23.36	12.91	36.27	54.00	-17.73	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5790.600	45.70	43.80	89.50	54.00	35.50	AVG	no limit
2	X	5791.800	54.21	43.80	98.01	68.30	29.71	peak	no limit

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

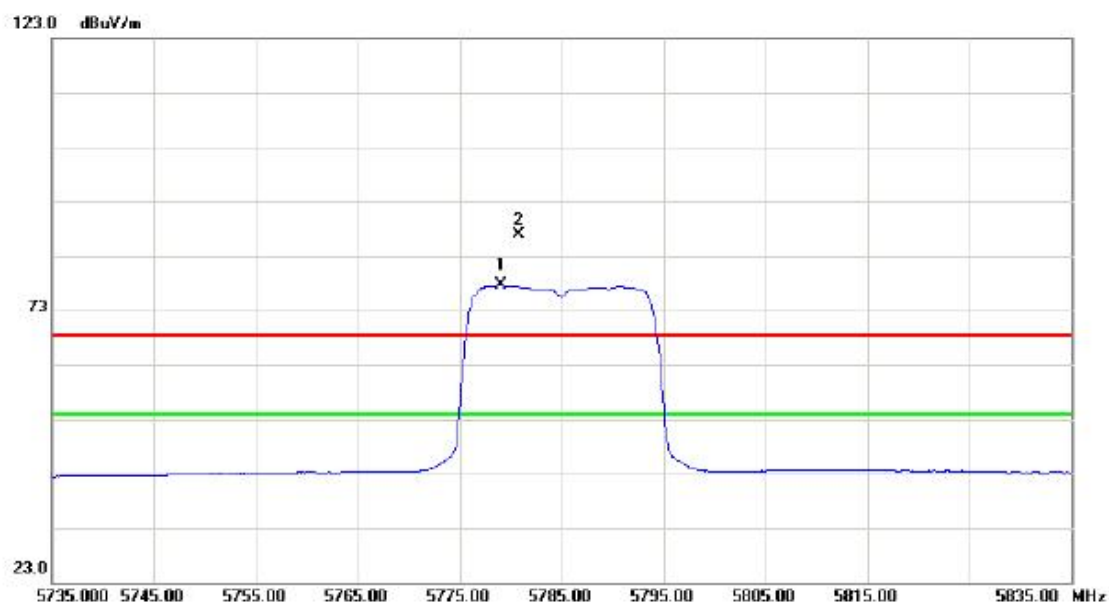
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.98	35.85	12.89	48.74	68.30	-19.56	peak	
2	*	11570.98	23.56	12.89	36.45	54.00	-17.55	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5779.000	33.78	43.75	77.53	54.00	23.53	AVG	no limit
2	X	5780.800	43.08	43.76	86.84	68.30	18.54	peak	no limit

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

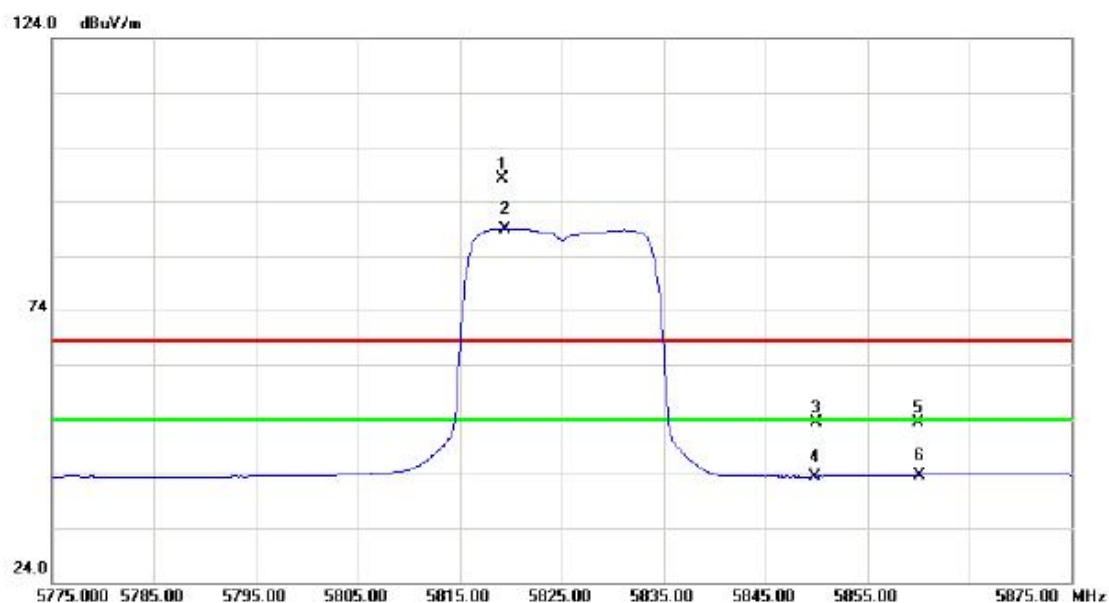
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11570.00	36.36	12.89	49.25	68.30	-19.05	peak	
2	*	11570.00	24.77	12.89	37.66	54.00	-16.34	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	X	5819.200	54.28	43.92	98.20	68.30	29.90	peak	no limit
2	*	5819.400	45.06	43.93	88.99	54.00	34.99	AVG	no limit
3		5850.000	9.34	44.06	53.40	68.30	-14.90	peak	
4		5850.000	-0.59	44.06	43.47	54.00	-10.53	AVG	
5		5860.000	9.31	44.10	53.41	68.30	-14.89	peak	
6		5860.000	-0.40	44.10	43.70	54.00	-10.30	AVG	

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

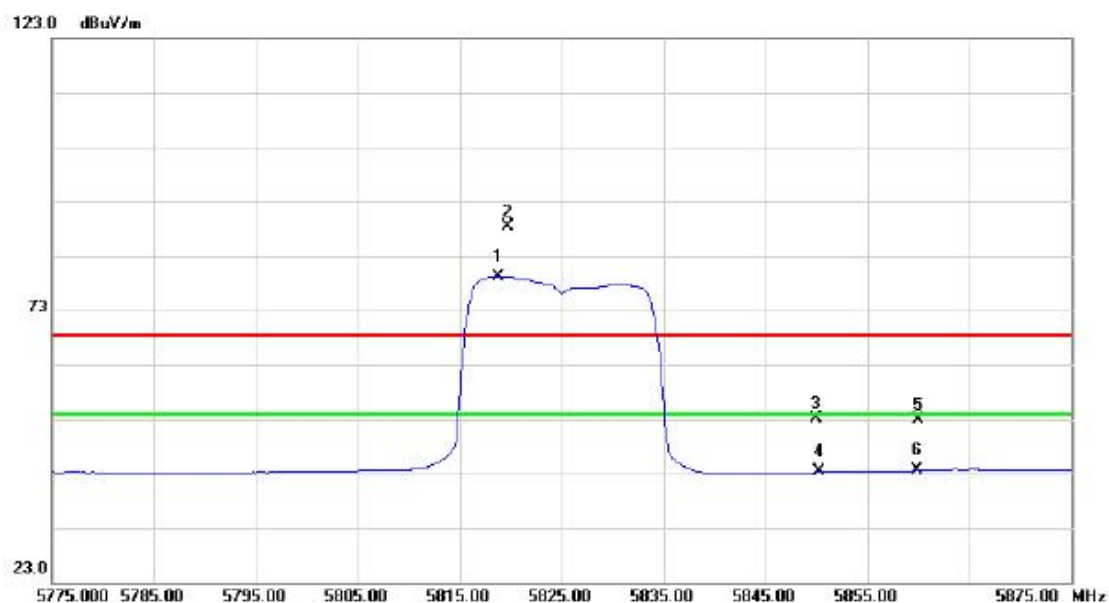
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11652.82	35.87	12.84	48.71	68.30	-19.59	peak	
2	*	11652.82	25.71	12.84	38.55	54.00	-15.45	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5818.800	35.26	43.92	79.18	54.00	25.18	AVG	no limit
2	X	5819.700	44.49	43.93	88.42	68.30	20.12	peak	no limit
3		5850.000	9.09	44.06	53.15	68.30	-15.15	peak	
4		5850.000	-0.79	44.06	43.27	54.00	-10.73	AVG	
5		5860.000	8.84	44.10	52.94	68.30	-15.36	peak	
6		5860.000	-0.58	44.10	43.52	54.00	-10.48	AVG	

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

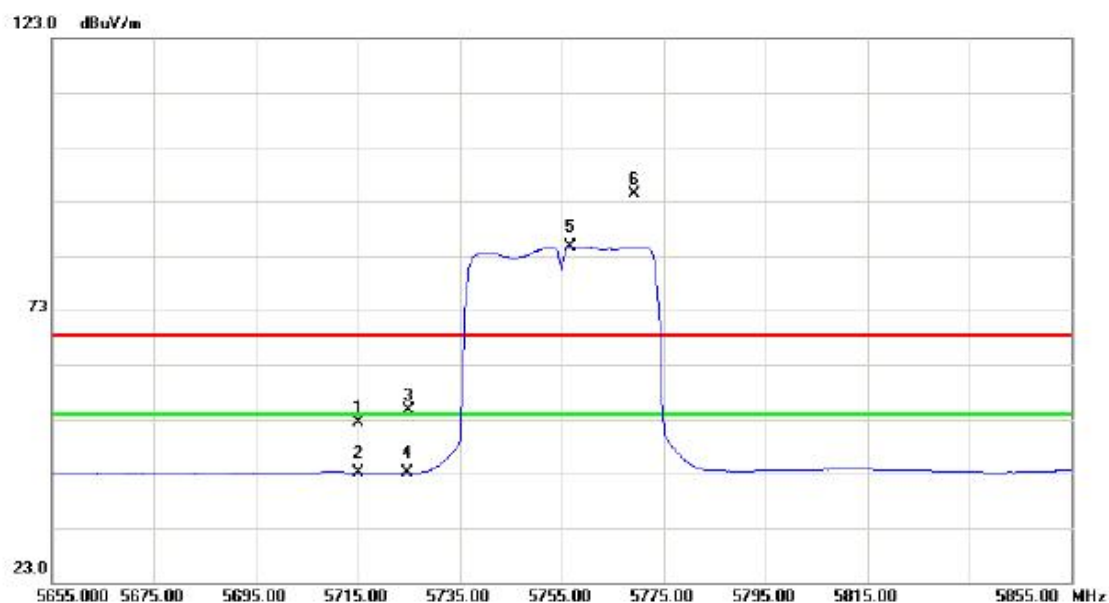
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11650.88	34.70	12.84	47.54	68.30	-20.76	peak	
2	*	11650.88	24.79	12.84	37.63	54.00	-16.37	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5715.000	9.01	43.47	52.48	68.30	-15.82	peak	
2		5715.000	-0.29	43.47	43.18	54.00	-10.82	AVG	
3		5725.000	11.08	43.51	54.59	68.30	-13.71	peak	
4		5725.000	-0.36	43.51	43.15	54.00	-10.85	AVG	
5	*	5756.800	41.07	43.65	84.72	54.00	30.72	AVG	no limit
6	X	5769.200	50.66	43.70	94.36	68.30	26.06	peak	no limit

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

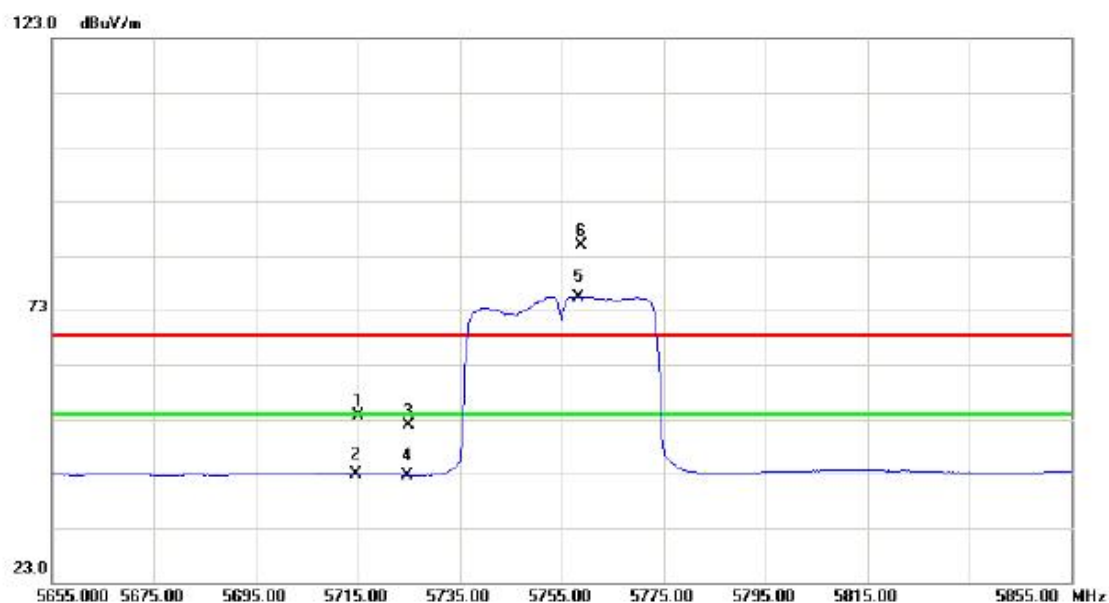
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11511.20	35.37	12.93	48.30	68.30	-20.00	peak	
2	*	11511.20	24.19	12.93	37.12	54.00	-16.88	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5715.000	10.25	43.47	53.72	68.30	-14.58	peak	
2		5715.000	-0.54	43.47	42.93	54.00	-11.07	AVG	
3		5725.000	8.37	43.51	51.88	68.30	-16.42	peak	
4		5725.000	-0.78	43.51	42.73	54.00	-11.27	AVG	
5	*	5758.200	31.72	43.66	75.38	54.00	21.38	AVG	no limit
6	X	5758.800	41.14	43.66	84.80	68.30	16.50	peak	no limit

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

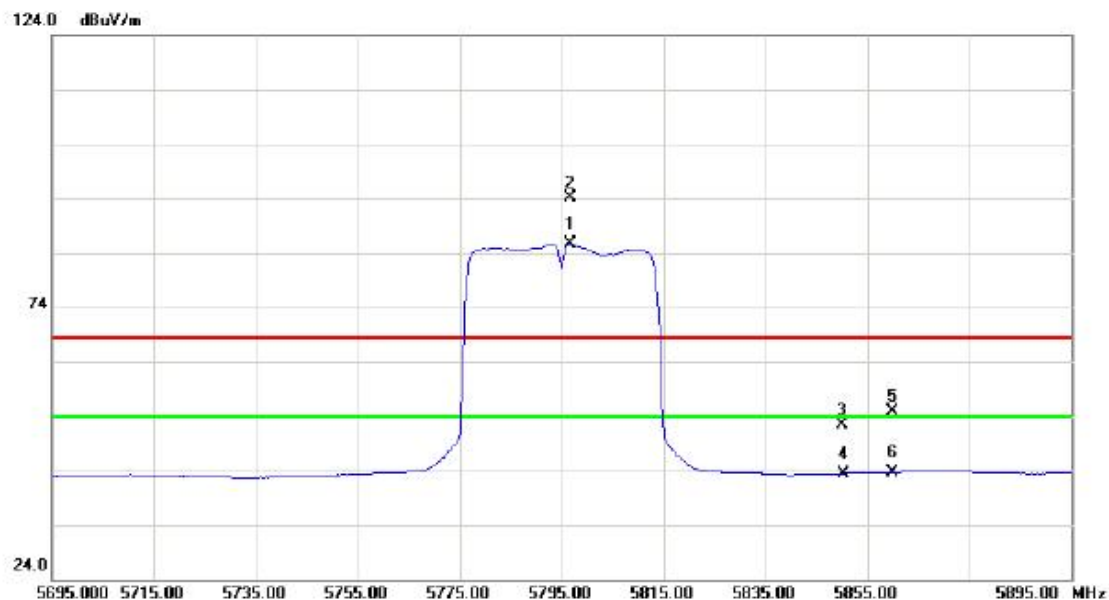
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11510.99	35.50	12.93	48.43	68.30	-19.87	peak	
2	*	11510.99	23.58	12.93	36.51	54.00	-17.49	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5796.600	41.69	43.83	85.52	54.00	31.52	AVG	no limit
2	X	5796.800	50.40	43.83	94.23	68.30	25.93	peak	no limit
3		5850.000	8.38	44.06	52.44	68.30	-15.86	peak	
4		5850.000	-0.67	44.06	43.39	54.00	-10.61	AVG	
5		5860.000	10.81	44.10	54.91	68.30	-13.39	peak	
6		5860.000	-0.40	44.10	43.70	54.00	-10.30	AVG	

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

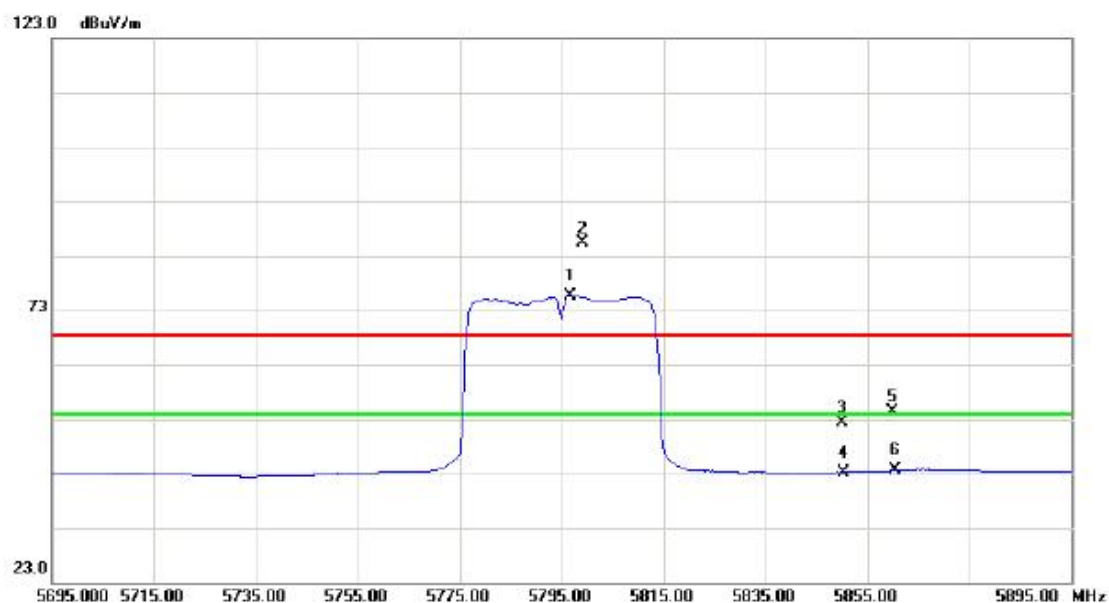
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11590.24	34.58	12.88	47.46	68.30	-20.84	peak	
2	*	11590.24	24.34	12.88	37.22	54.00	-16.78	AVG	

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	Over dB	Detector	Comment
1	*	5796.600	31.90	43.83	75.73	54.00	21.73	AVG	no limit
2	X	5799.200	41.45	43.84	85.29	68.30	16.99	peak	no limit
3		5850.000	8.41	44.06	52.47	68.30	-15.83	peak	
4		5850.000	-0.82	44.06	43.24	54.00	-10.76	AVG	
5		5860.000	10.40	44.10	54.50	68.30	-13.80	peak	
6		5860.000	-0.59	44.10	43.51	54.00	-10.49	AVG	

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

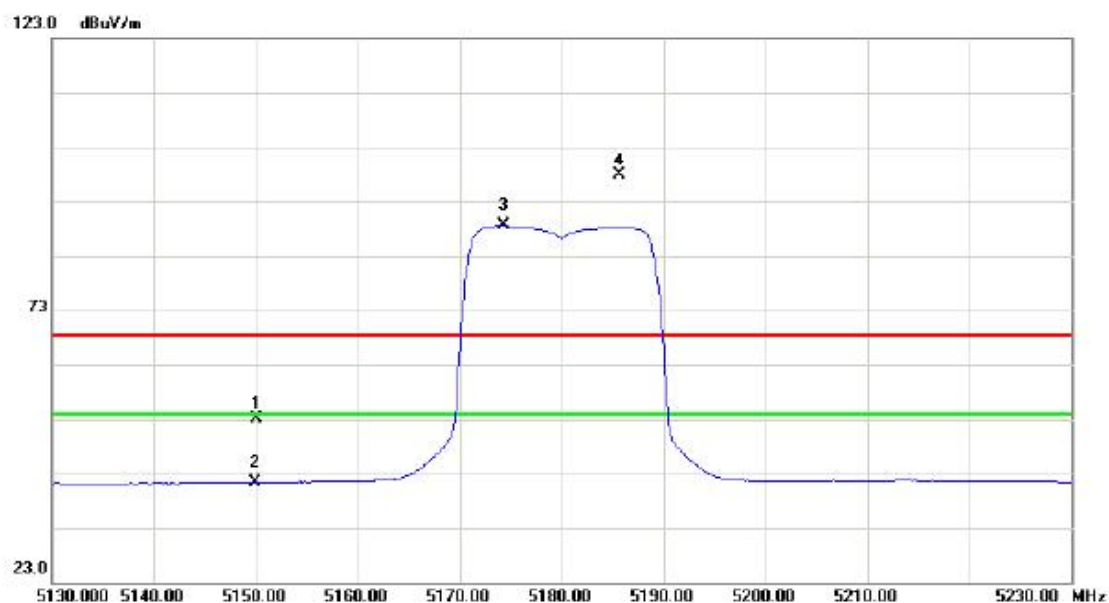
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		11590.10	35.91	12.88	48.79	68.30	-19.51	peak	
2	*	11590.10	24.35	12.88	37.23	54.00	-16.77	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	11.86	41.39	53.25	68.30	-15.05	peak	
2		5150.000	0.03	41.39	41.42	54.00	-12.58	AVG	
3	*	5174.300	47.18	41.47	88.65	54.00	34.65	AVG	no limit
4	X	5185.600	56.40	41.51	97.91	68.30	29.61	peak	no limit

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

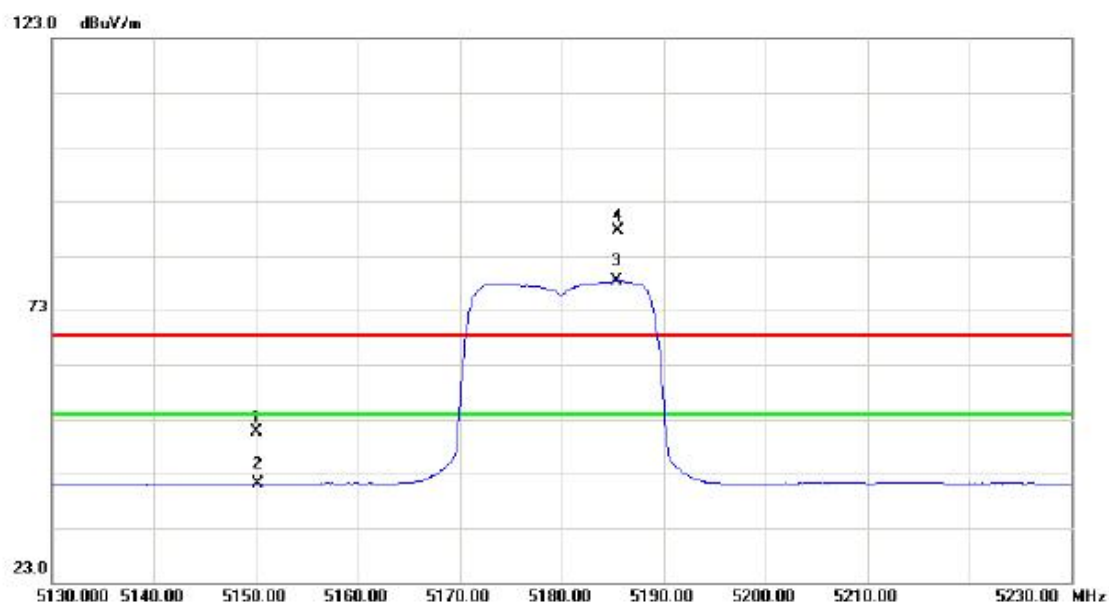
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10362.77	38.01	11.10	49.11	68.30	-19.19	peak	
2	*	10362.77	26.46	11.10	37.56	54.00	-16.44	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		5150.000	9.24	41.39	50.63	68.30	-17.67	peak	
2		5150.000	-0.23	41.39	41.16	54.00	-12.84	AVG	
3	*	5185.400	36.85	41.51	78.36	54.00	24.36	AVG	no limit
4	X	5185.500	46.19	41.51	87.70	68.30	19.40	peak	no limit

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

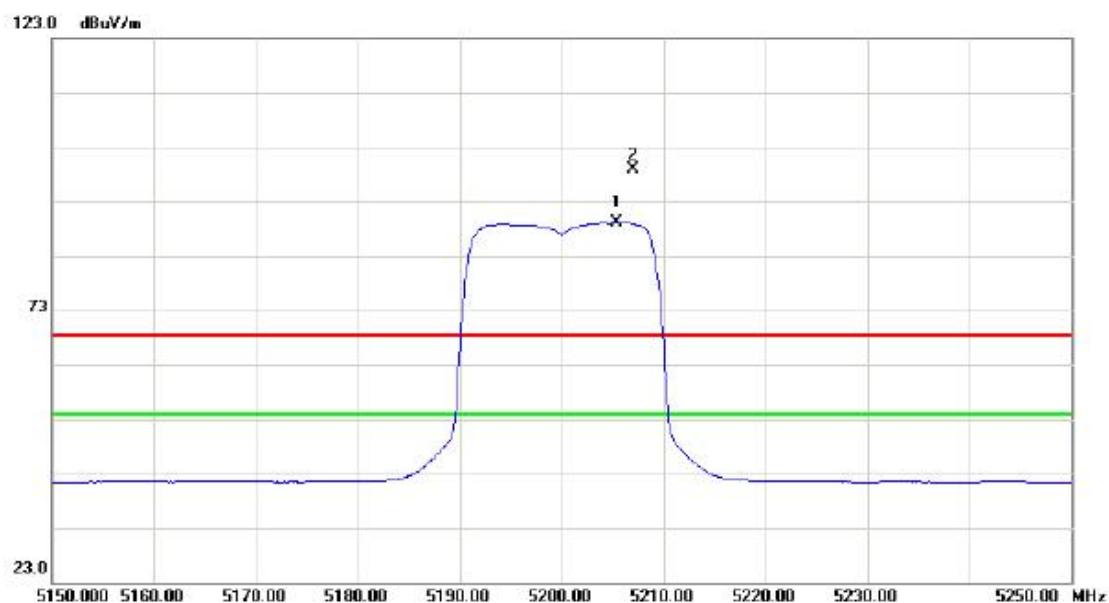
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10360.14	37.12	11.10	48.22	68.30	-20.08	peak	
2	*	10360.14	26.31	11.10	37.41	54.00	-16.59	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5205.400	47.66	41.57	89.23	54.00	35.23	AVG	no limit
2	X	5207.000	57.29	41.58	98.87	68.30	30.57	peak	no limit

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

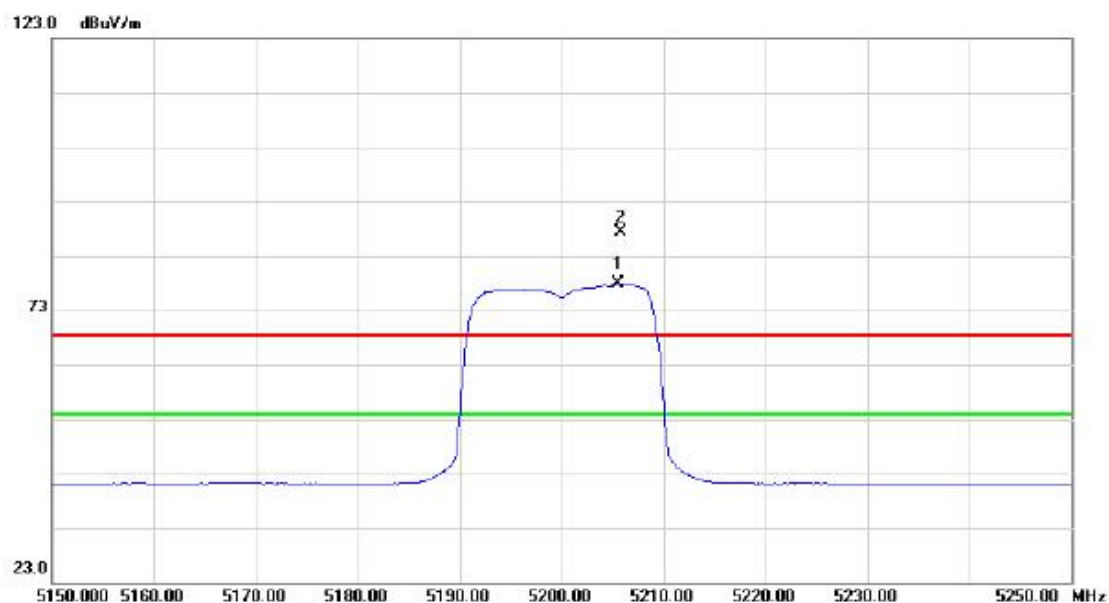
Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10400.45	36.20	11.05	47.25	68.30	-21.05	peak	
2	*	10400.45	25.52	11.05	36.57	54.00	-17.43	AVG	

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

Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5205.500	36.23	41.57	77.80	54.00	23.80	AVG	no limit
2	X	5205.800	45.84	41.57	87.41	68.30	19.11	peak	no limit

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

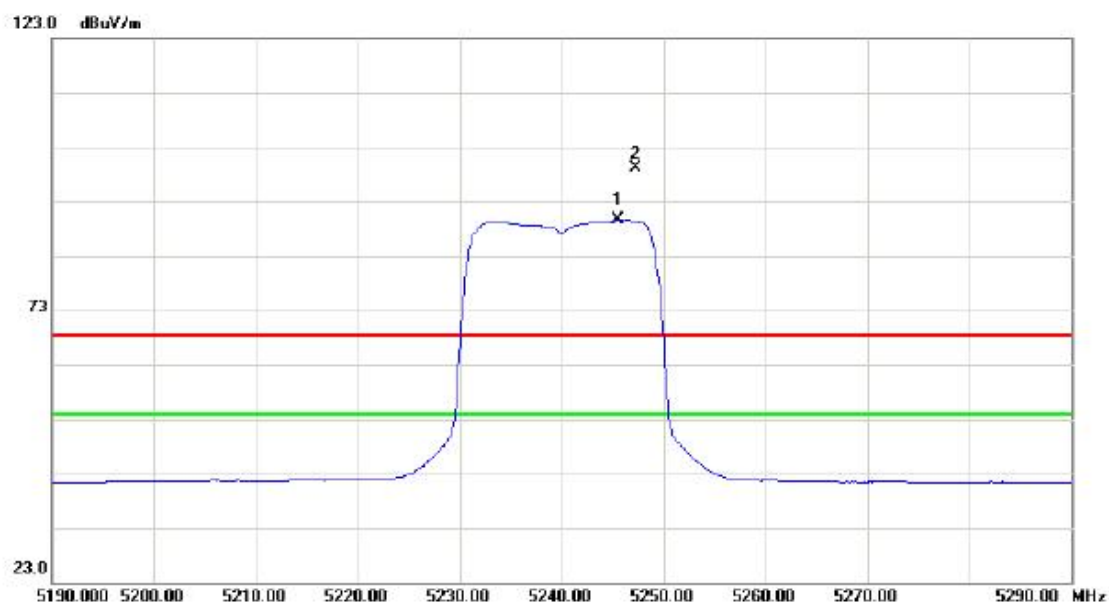
Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10401.72	38.28	11.05	49.33	68.30	-18.97	peak	
2	*	10401.72	26.10	11.05	37.15	54.00	-16.85	AVG	

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5245.500	47.83	41.70	89.53	54.00	35.53	AVG	no limit
2	X	5247.300	57.47	41.71	99.18	68.30	30.88	peak	no limit

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

Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		10481.24	36.57	10.94	47.51	68.30	-20.79	peak	
2	*	10481.24	25.27	10.94	36.21	54.00	-17.79	AVG	