FCC Radio Test Report

FCC ID: 2AC8BAMW-DBR1200AC

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

Project No.	:	1411C047
Equipment	:	Wireless AC1200 Dual-band Router
Model Name	:	AMW-DBR 1200AC
Applicant	:	Atlas Media Co
Address	:	1315 Walnut Street Suite 320 Philadelphia, PA 19107

Date of Receipt	:	Nov. 07, 2014
Date of Test	:	Nov. 07, 2014 ~ Dec. 10, 2014
Issued Date	:	Dec. 11, 2014
Tested by	:	BTL Inc.

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Declaration

BTLrepresents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**., or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

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

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1411C047	Original Issue.	Dec. 11, 2014

1. CERTIFICATION

Equipment	:	Wireless AC1200 Dual-band Router
Brand Name	:	Atlas Media Co
Model Name	:	AMW-DBR 1200AC
Applicant	:	Atlas Media Co
Date of Test	:	Nov. 07, 2014 ~ Dec. 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-2-1411C047) 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 FCC	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) 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** ± **U**, where expended 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	Wireless AC1200 Dual-band Router	
Brand Name	Atlas Media Co	
Model Name	AMW-DBR 1200AC	
Mode Different	N/A	
Product Description	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz
	Modulation Type	OFDM
	Bit Rate of Transmitter	300Mbps
	Output Power (Max.)for UNII-1	802.11a: 15.80dBm 802.11n (20M): 20.91dBm 802.11n (40M): 12.81dBm 802.11ac (20M): 20.70dBm 802.11ac (40M): 12.48dBm 802.11ac (80M): 12.09dBm
	Output Power (Max.)for UNII-3	802.11a: 10.66dBm 802.11n (20M): 14.20dBm 802.11n (40M): 12.76dBm 802.11ac (20M): 14.04dBm 802.11ac (40M): 12.66dBm 802.11ac (80M): 13.74dBm
Power Source	DC voltage supplied from AC/DC adapter. #1 Manufacturer: SHENZHEN HEWEISHUN NETWORK TECHNOLOGY CO.LTD Model: TEA12U-12100	
Power Rating	#1 I/P:100-240V~ 50/60Hz 0.3A O/P: DC 12V/1 A	

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)	Chann l	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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
3	Tenda	Q5116	Internal	N/A	3.25	TX/RX
4	Tenda	Q5118	Internal	N/A	3.15	TX/RX

Note: (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R). All transmit signals are completely uncorrelated, then, Direction gain = G_{ANT}, that is Directional gain=3.25.

(2) ANT 3 for 1TX was found to be the worst case and recorded.

4.

Operating Mode / TX Mode	1TX	2TX
802.11a	V (ANT 3)	-
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: For Radiated Below 1G test, the 802.11a mode 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

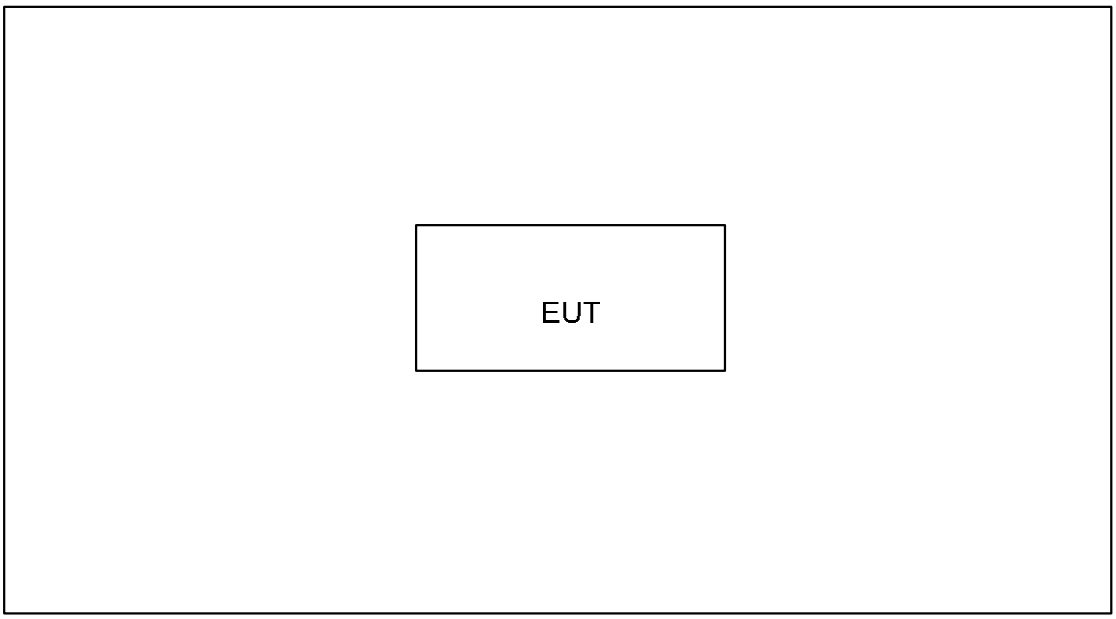
UNII-1			
Test Software Version	MTOOL		
Frequency (MHz)	5180	5200	5240
A Mode	68	72	66
N20 Mode	63	82	77
Frequency (MHz)	5190	5230	
N40 Mode	58	65	

UNII-3			
Test Software Version	MTOOL		
Frequency (MHz)	5745	5785	5825
A Mode	69	69	67
N20 Mode	65	65	64
Frequency (MHz)	5755	5795	
N40 Mode	58	60	

UNII-1			
Test Software Version	MTOOL		
Frequency (MHz)	5180	5200	5240
AC20 Mode	63	82	78
Frequency (MHz)	5190	5230	
AC40 Mode	58	65	
Frequency (MHz)	5210		
AC80 Mode	59		

UNII-3			
Test Software Version	MTOOL		
Frequency (MHz)	5745	5785	5825
AC20 Mode	65	65	64
Frequency (MHz)	5755	5795	
AC40 Mode	0	0	
Frequency (MHz)	5775		
AC80 Mode	67		

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.

(3) 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.

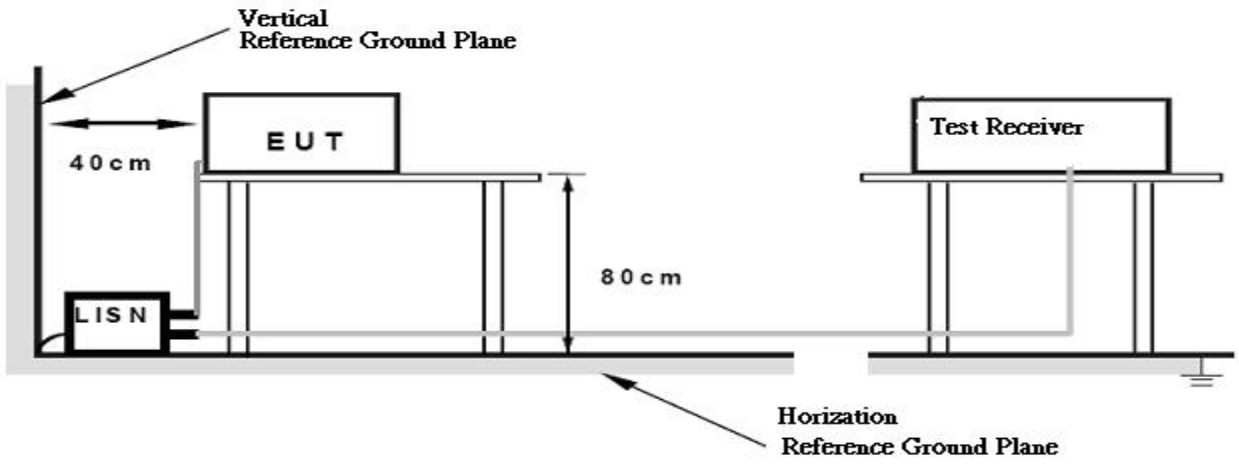
d. LISN at least 80 cm from nearest part of EUT chassis.

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



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.

(4) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

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

4.2.2 TEST PROCEDURE

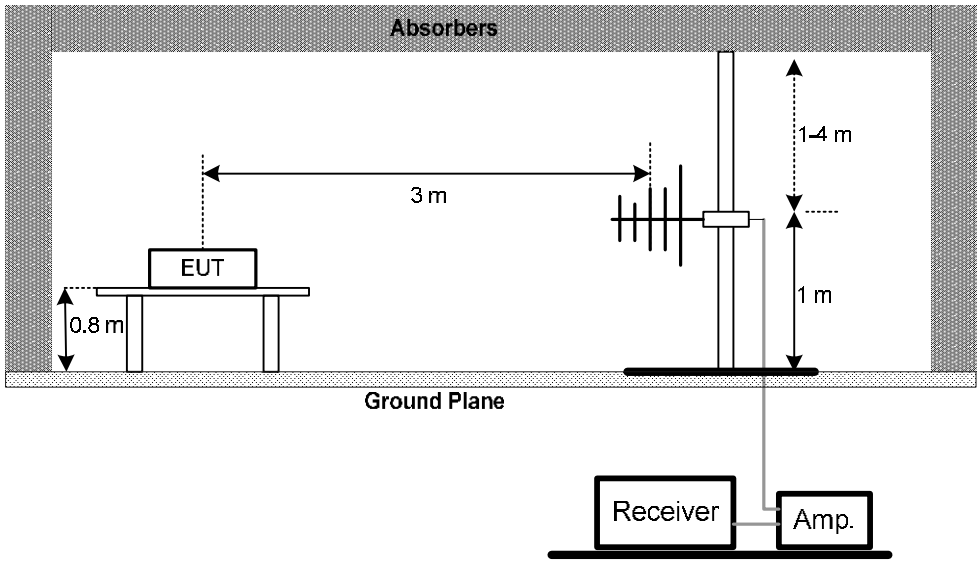
a. The measuring distance of at 3m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. 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.
d. 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.
e. 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.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

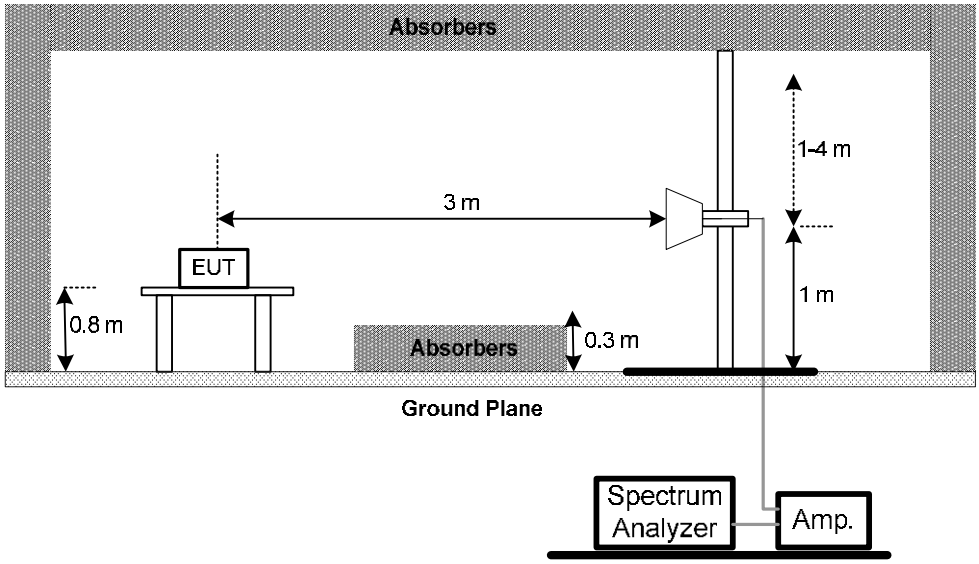
No deviation

4.2.4 TEST SETUP

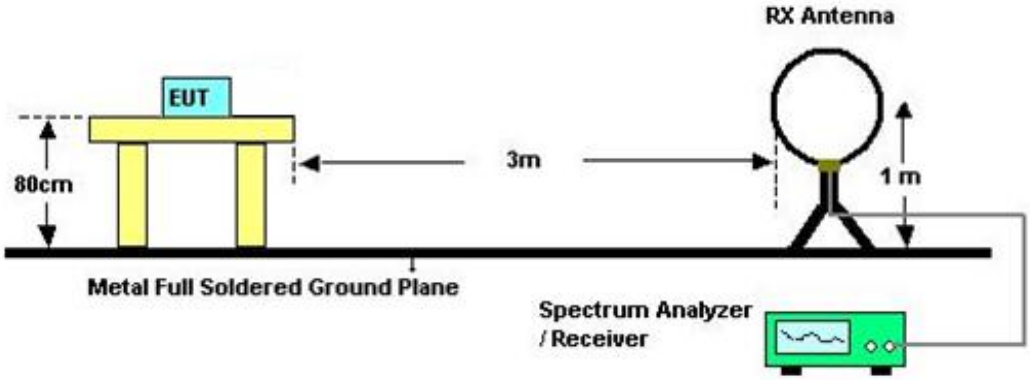
(A) Radiated Emission Test Set-Up Frequency30 - 1000MHz



(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 (specific distance / 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	⩾ 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,

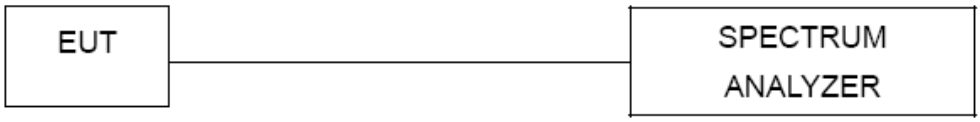
b.

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

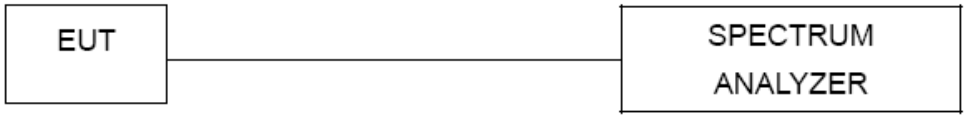
Note:

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 10log(500kHz/1MHz) 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

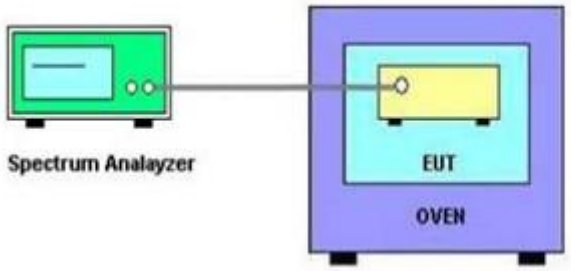
c. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

d. User manual temperature is 0°C~50°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	100087	Mar. 29, 2015
3	Test Cable	N/A	C_17	N/A	Mar. 14, 2015
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	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.

11. EUT TEST PHOTOS

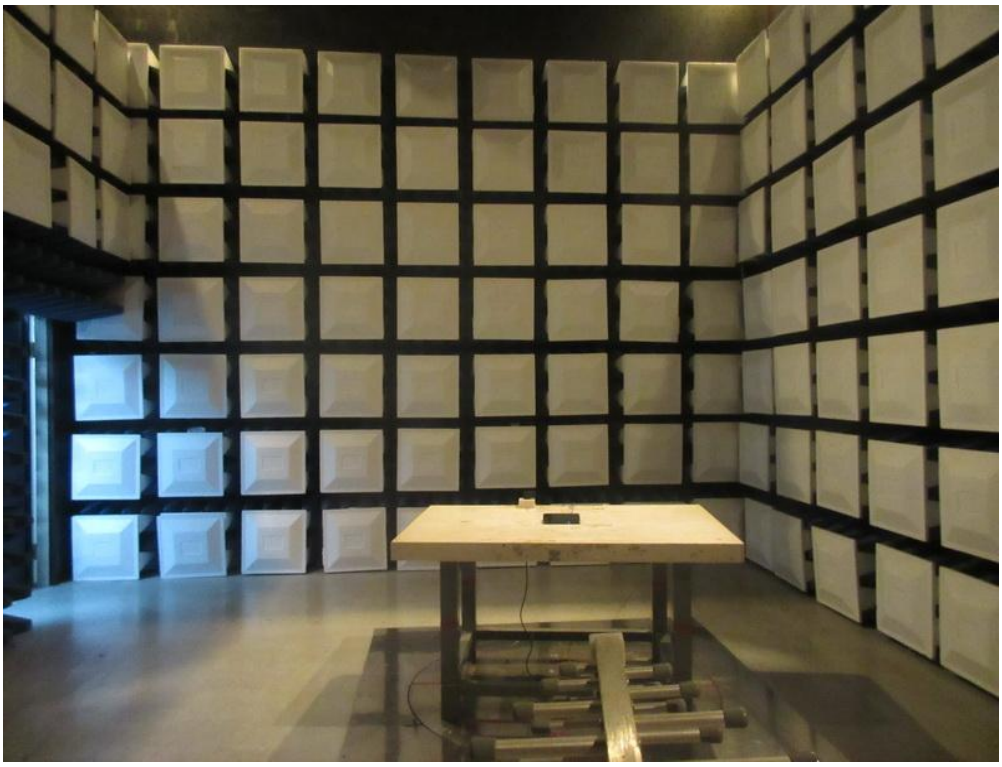
Conducted Measurement Photos

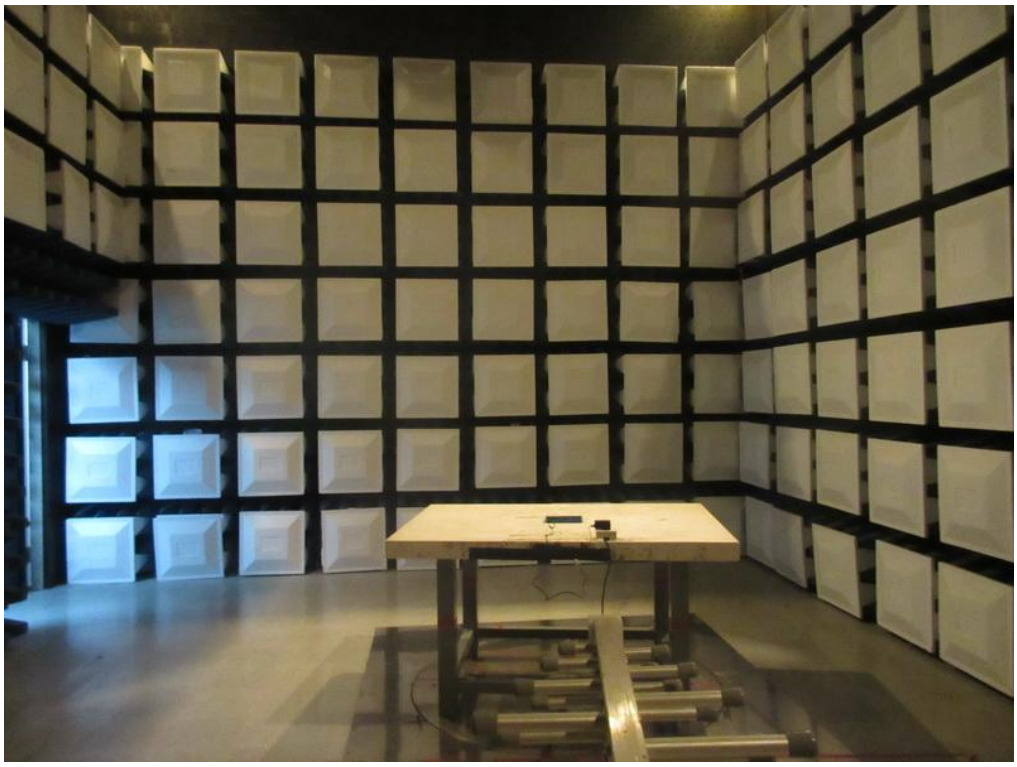
Radiated Measurement Photos

9KHz to 30MHz

Radiated Measurement Photos

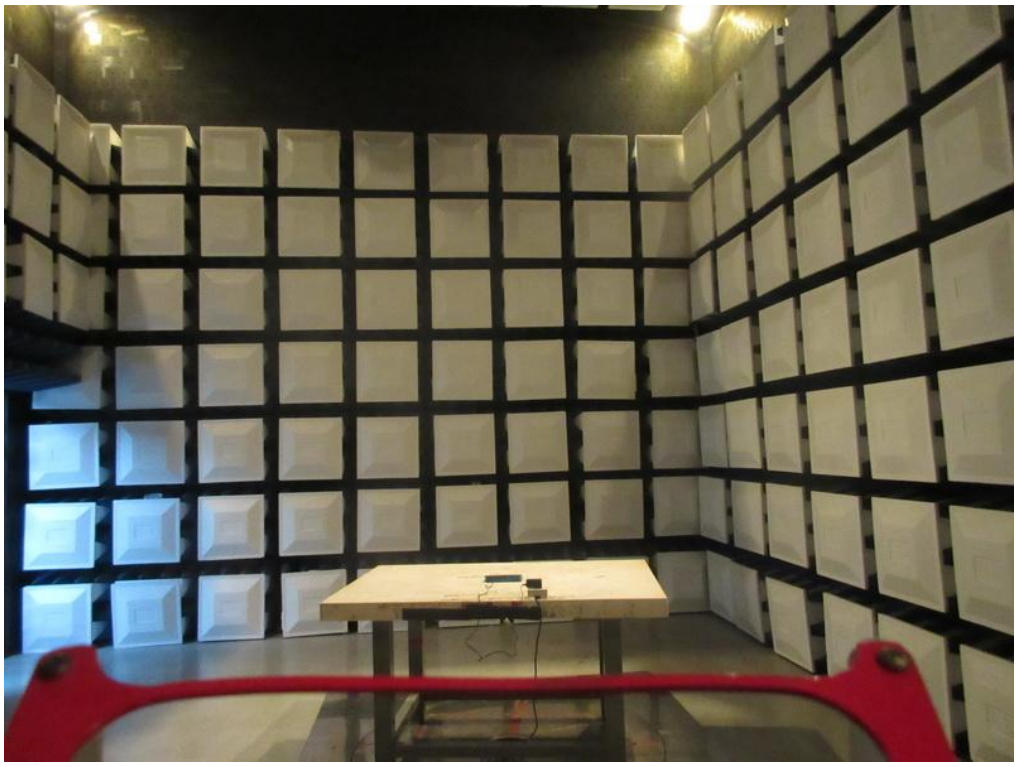
30MHz to 1000MHz





Radiated Measurement Photos

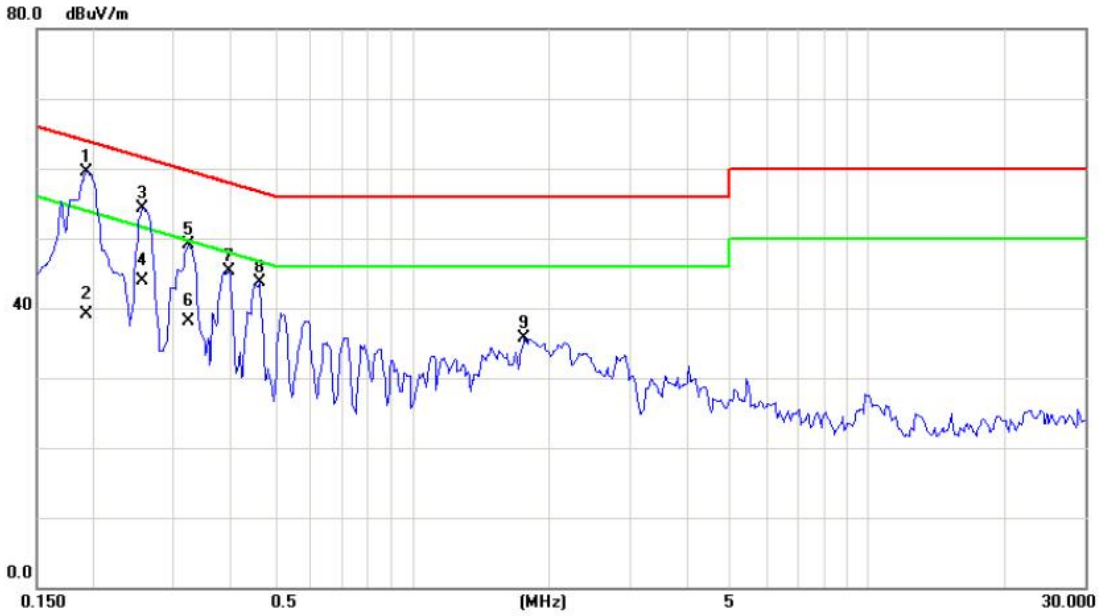
Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

Test Mode:	TX MODE

Line

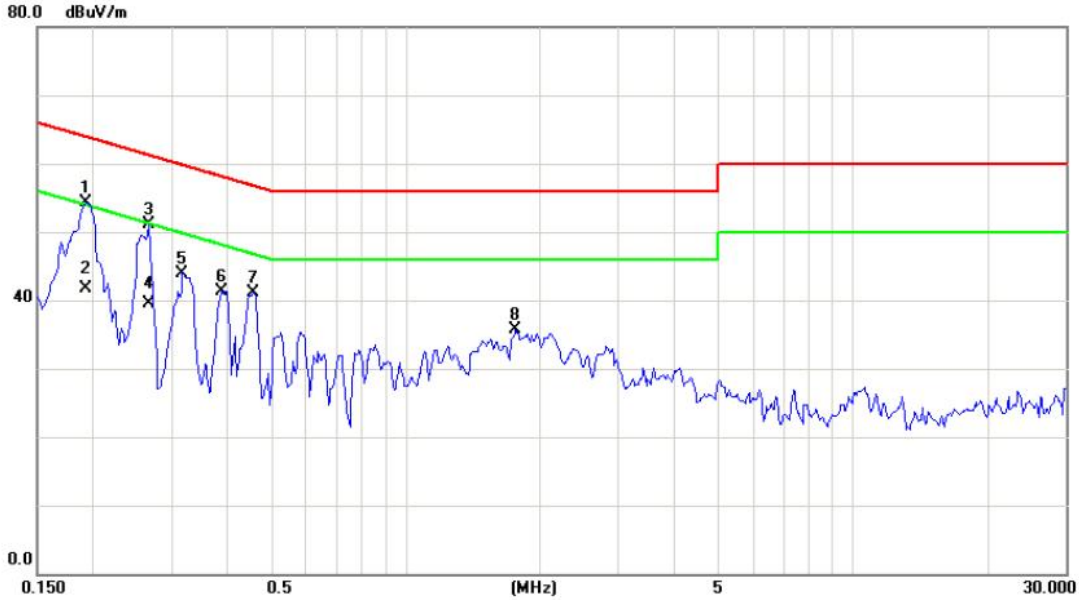


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.1930	50.01	9.57	59.58	63.91	-4.33	peak	
2		0.1930	29.60	9.57	39.17	53.91	-14.74	AVG	
3		0.2555	44.72	9.57	54.29	61.58	-7.29	peak	
4		0.2555	34.25	9.57	43.82	51.58	-7.76	AVG	
5		0.3220	39.55	9.57	49.12	59.66	-10.54	peak	
6		0.3220	28.63	9.57	38.20	49.66	-11.46	AVG	
7		0.3961	35.67	9.58	45.25	57.93	-12.68	peak	
8		0.4625	34.09	9.58	43.67	56.65	-12.98	peak	
9		1.7672	26.03	9.62	35.65	56.00	-20.35	peak	

Note：The test result has included the cable loss.

Test Mode:	TX MODE

Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.1930	44.80	9.57	54.37	63.91	-9.54	peak	
2		0.1930	32.06	9.57	41.63	53.91	-12.28	AVG	
3		0.2672	41.45	9.57	51.02	61.20	-10.18	peak	
4		0.2672	29.86	9.57	39.43	51.20	-11.77	AVG	
5		0.3180	34.42	9.57	43.99	59.76	-15.77	peak	
6		0.3883	31.74	9.58	41.32	58.10	-16.78	peak	
7		0.4586	31.55	9.58	41.13	56.72	-15.59	peak	
8		1.7633	26.07	9.62	35.69	56.00	-20.31	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
0.0077	0°	13.29	25.08	38.37	109.93	-71.56	AVG
0.0076	0°	14.34	25.08	39.42	129.93	-90.51	PEAK
0.0138	0°	6.36	24.69	31.05	104.81	-73.75	AVG
0.0138	0°	7.41	24.69	32.10	124.81	-92.70	PEAK
0.0254	0°	3.47	23.96	27.43	99.51	-72.08	AVG
0.0254	0°	5.32	23.96	29.28	119.51	-90.23	PEAK
0.0334	0°	0.95	23.45	24.40	97.14	-72.74	AVG
0.0335	0°	2.96	23.45	26.41	117.14	-90.73	PEAK
0.5756	0°	30.52	20.04	50.56	72.40	-21.84	QP
1.7540	0°	21.37	19.52	40.89	69.54	-28.65	QP

Freq. (MHz)	Ant. 0°/90°	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
0.0086	90°	13.29	24.30	37.59	128.91	-91.32	AVG
0.0086	90°	14.34	24.30	38.64	148.91	-110.27	PEAK
0.0241	90°	6.25	24.04	30.29	119.96	-89.67	AVG
0.0241	90°	8.37	24.04	32.41	139.96	-107.55	PEAK
0.0337	90°	3.32	23.43	26.75	117.05	-90.30	AVG
0.0337	90°	5.29	23.43	28.72	137.05	-108.33	PEAK
0.0446	90°	0.58	22.74	23.32	114.62	-91.30	AVG
0.0446	90°	2.82	22.74	25.56	134.62	-109.06	PEAK
0.4939	90°	30.22	19.81	50.03	73.73	-23.70	QP
1.7152	90°	21.57	19.53	41.10	69.54	-28.44	QP

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

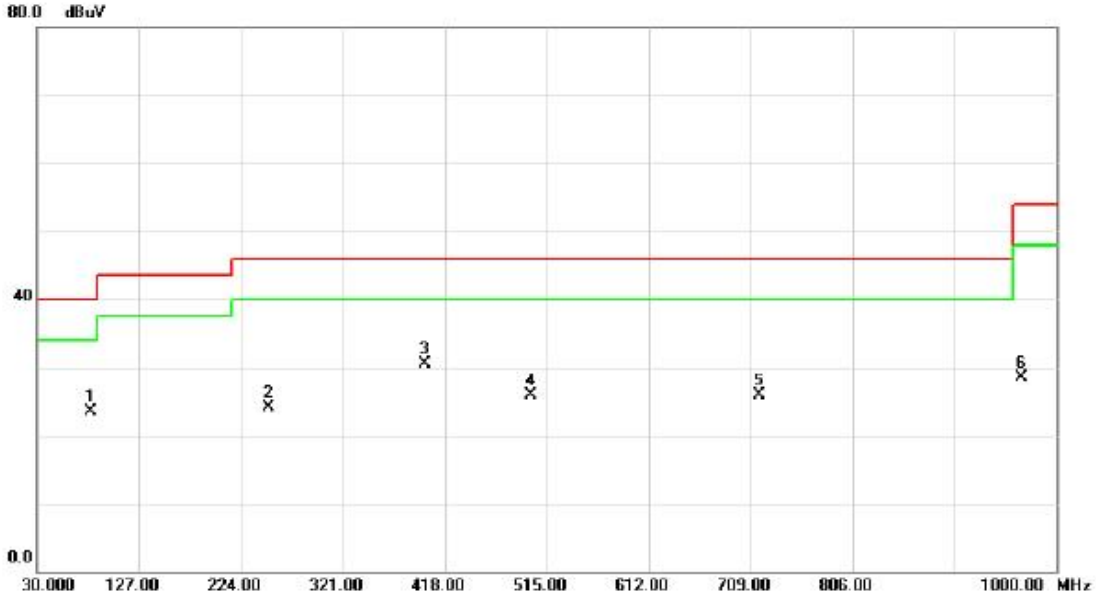
Test Mode:	UNII-1/TX A Mode 5180MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	47.4600	48.46	-13.82	34.64	40.00	-5.36	peak	
2		98.8700	50.43	-16.55	33.88	43.50	-9.62	peak	
3		193.9300	39.05	-14.59	24.46	43.50	-19.04	peak	
4		399.5700	36.72	-9.55	27.17	46.00	-18.83	peak	
5		472.3200	39.25	-9.47	29.78	46.00	-16.22	peak	
6		600.3600	33.21	-7.89	25.32	46.00	-20.68	peak	

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

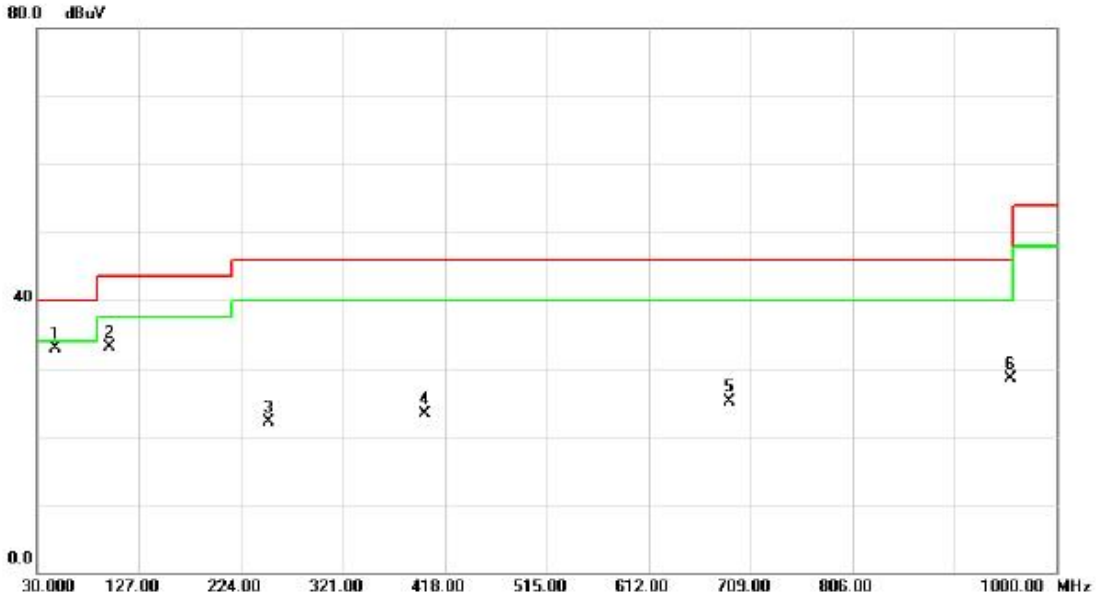
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		81.4100	40.76	-17.23	23.53	40.00	-16.47	peak	
2		250.1900	38.10	-14.02	24.08	46.00	-21.92	peak	
3	*	399.5700	40.02	-9.55	30.47	46.00	-15.53	peak	
4		500.4500	36.47	-10.50	25.97	46.00	-20.03	peak	
5		717.7300	30.69	-4.81	25.88	46.00	-20.12	peak	
6		967.0200	28.77	-0.28	28.49	54.00	-25.51	peak	

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

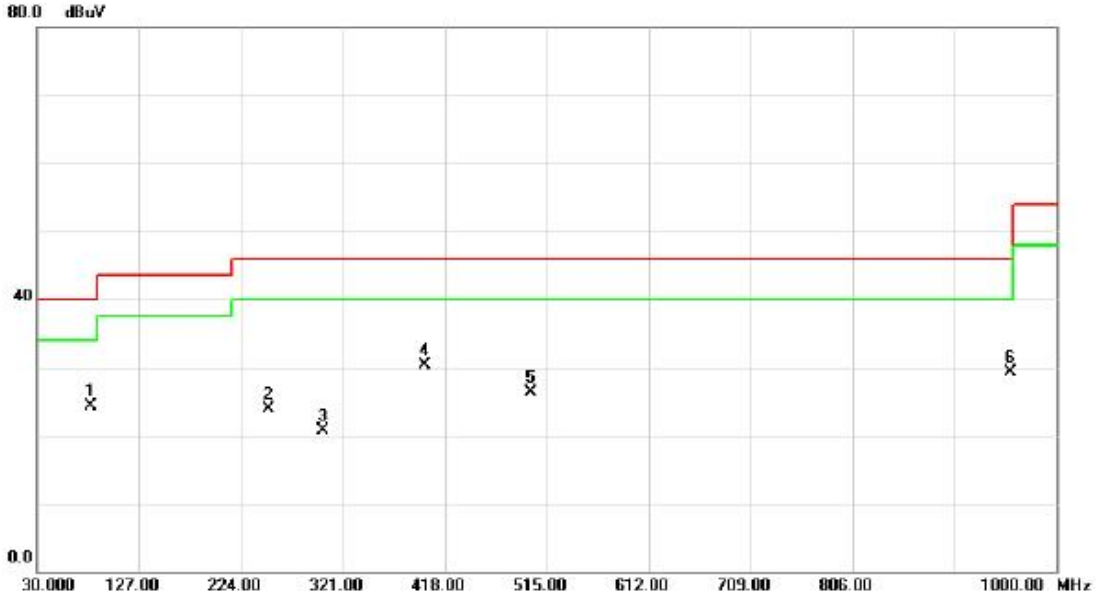
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	47.4600	46.73	-13.82	32.91	40.00	-7.09	peak	
2		98.8700	49.56	-16.55	33.01	43.50	-10.49	peak	
3		250.1900	36.15	-14.02	22.13	46.00	-23.87	peak	
4		399.5700	32.84	-9.55	23.29	46.00	-22.71	peak	
5		688.6300	30.14	-4.98	25.16	46.00	-20.84	peak	
6		956.3500	28.64	-0.23	28.41	46.00	-17.59	peak	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	81.4100	41.62	-17.23	24.39	40.00	-15.61	peak	
2		250.1900	38.01	-14.02	23.99	46.00	-22.01	peak	
3		301.6000	31.76	-11.02	20.74	46.00	-25.26	peak	
4		399.5700	39.77	-9.55	30.22	46.00	-15.78	peak	
5		500.4500	36.74	-10.50	26.24	46.00	-19.76	peak	
6		956.3500	29.49	-0.23	29.26	46.00	-16.74	peak	

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

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	47.4600	46.18	-13.82	32.36	40.00	-7.64	peak	
2		98.8700	49.33	-16.55	32.78	43.50	-10.72	peak	
3		250.1900	35.75	-14.02	21.73	46.00	-24.27	peak	
4		356.8900	33.17	-11.48	21.69	46.00	-24.31	peak	
5		662.4400	29.94	-5.10	24.84	46.00	-21.16	peak	
6		800.1800	31.59	-2.89	28.70	46.00	-17.30	peak	

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

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		81.4100	41.06	-17.23	23.83	40.00	-16.17	peak	
2		250.1900	37.79	-14.02	23.77	46.00	-22.23	peak	
3	*	399.5700	40.33	-9.55	30.78	46.00	-15.22	peak	
4		500.4500	36.87	-10.50	26.37	46.00	-19.63	peak	
5		798.2400	29.88	-2.95	26.93	46.00	-19.07	peak	
6		957.3200	29.24	-0.24	29.00	46.00	-17.00	peak	

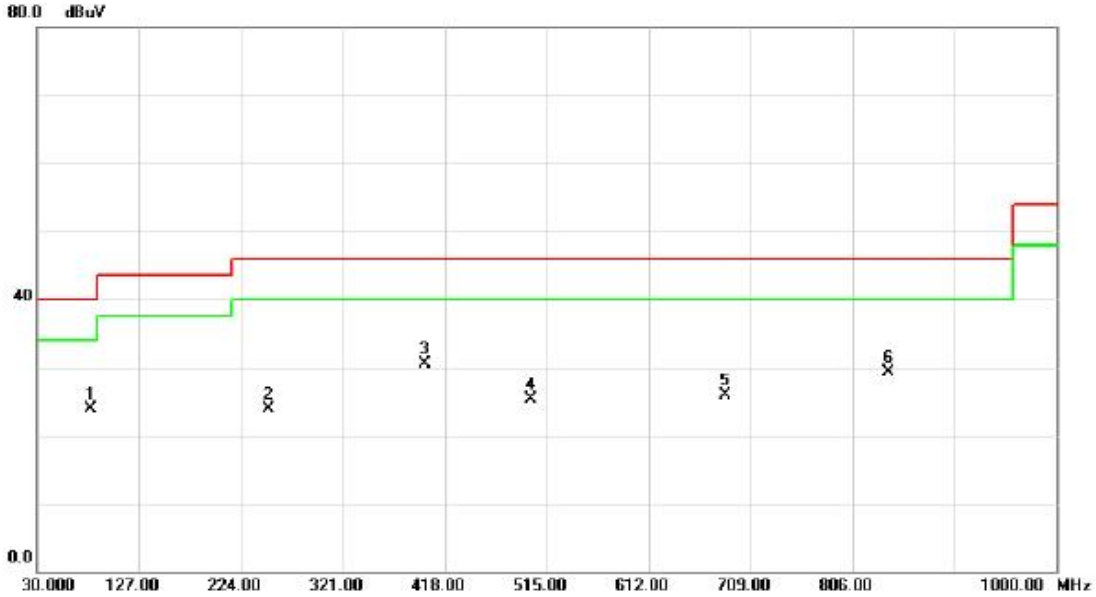
Test Mode:	UNII-3/TX A Mode 5745MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	47.4600	46.64	-13.82	32.82	40.00	-7.18	peak	
2		70.7400	48.72	-16.30	32.42	40.00	-7.58	peak	
3		98.8700	48.65	-16.55	32.10	43.50	-11.40	peak	
4		205.5700	40.32	-15.22	25.10	43.50	-18.40	peak	
5		250.1900	36.19	-14.02	22.17	46.00	-23.83	peak	
6		399.5700	36.01	-9.55	26.46	46.00	-19.54	peak	

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

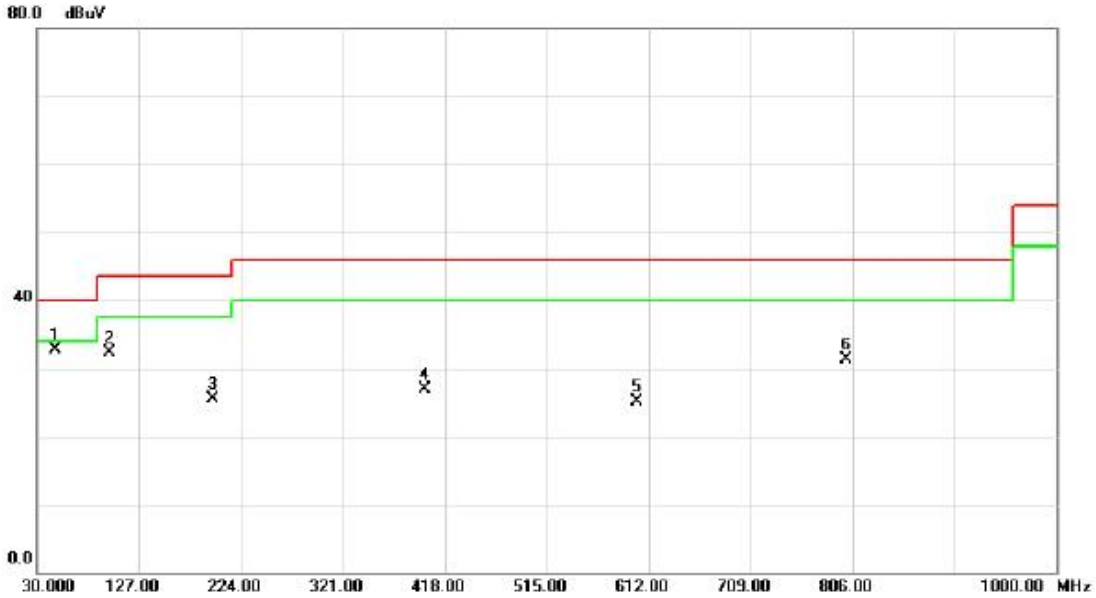
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		81.4100	41.19	-17.23	23.96	40.00	-16.04	peak	
2		250.1900	37.95	-14.02	23.93	46.00	-22.07	peak	
3	*	399.5700	39.96	-9.55	30.41	46.00	-15.59	peak	
4		500.4500	35.81	-10.50	25.31	46.00	-20.69	peak	
5		684.7500	30.85	-5.00	25.85	46.00	-20.15	peak	
6		839.9500	32.34	-3.10	29.24	46.00	-16.76	peak	

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

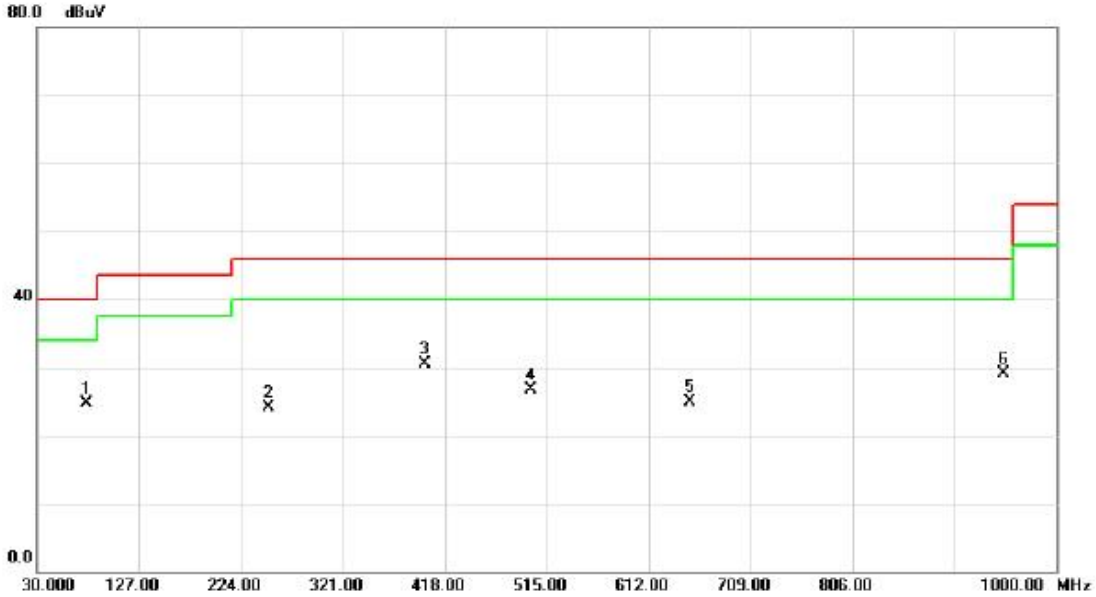
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	47.4600	46.50	-13.82	32.68	40.00	-7.32	peak	
2		98.8700	48.88	-16.55	32.33	43.50	-11.17	peak	
3		196.8400	40.31	-14.79	25.52	43.50	-17.98	peak	
4		399.5700	36.45	-9.55	26.90	46.00	-19.10	peak	
5		600.3600	32.92	-7.89	25.03	46.00	-20.97	peak	
6		800.1800	34.28	-2.89	31.39	46.00	-14.61	peak	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	77.5300	41.53	-16.87	24.66	40.00	-15.34	peak	
2		250.1900	38.10	-14.02	24.08	46.00	-21.92	peak	
3		399.5700	40.11	-9.55	30.56	46.00	-15.44	peak	
4		500.4500	37.17	-10.50	26.67	46.00	-19.33	peak	
5		651.7700	30.09	-5.15	24.94	46.00	-21.06	peak	
6		950.5300	29.30	-0.21	29.09	46.00	-16.91	peak	

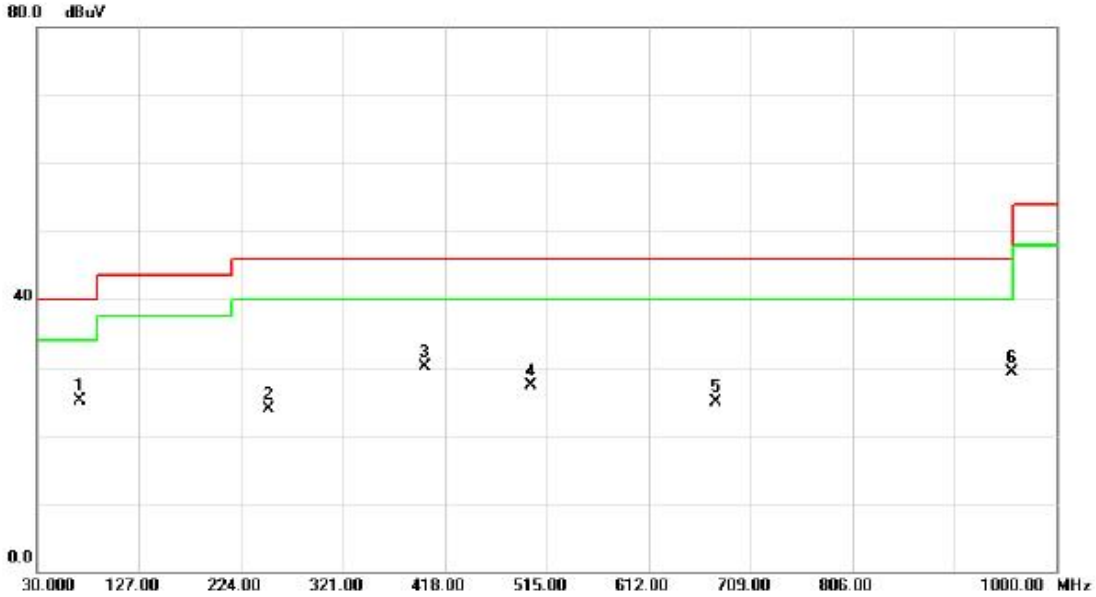
Test Mode:	UNII-3/TX A Mode 5825MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	47.4600	47.02	-13.82	33.20	40.00	-6.80	peak	
2		98.8700	49.50	-16.55	32.95	43.50	-10.55	peak	
3		194.9000	40.48	-14.66	25.82	43.50	-17.68	peak	
4		250.1900	36.68	-14.02	22.66	46.00	-23.34	peak	
5		399.5700	36.44	-9.55	26.89	46.00	-19.11	peak	
6		771.0800	30.98	-3.90	27.08	46.00	-18.92	peak	

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

Horizontal

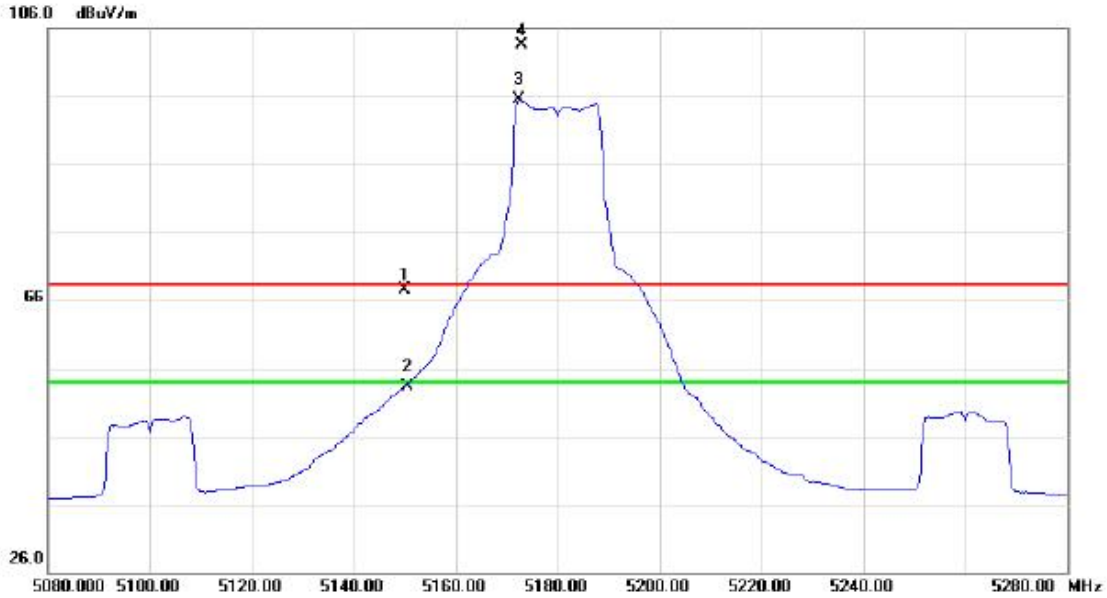


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	70.7400	41.42	-16.30	25.12	40.00	-14.88	peak	
2		250.1900	37.92	-14.02	23.90	46.00	-22.10	peak	
3		399.5700	39.72	-9.55	30.17	46.00	-15.83	peak	
4		500.4500	37.71	-10.50	27.21	46.00	-18.79	peak	
5		676.0200	30.00	-5.04	24.96	46.00	-21.04	peak	
6		958.2900	29.51	-0.25	29.26	46.00	-16.74	peak	

ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	28.49	39.00	67.49	68.30	-0.81	peak	
2		5150.000	14.28	39.00	53.28	54.00	-0.72	AVG	
3	*	5172.400	56.41	39.07	95.48	54.00	41.48	AVG	no limit
4	X	5172.800	64.45	39.07	103.52	68.30	35.22	peak	no limit

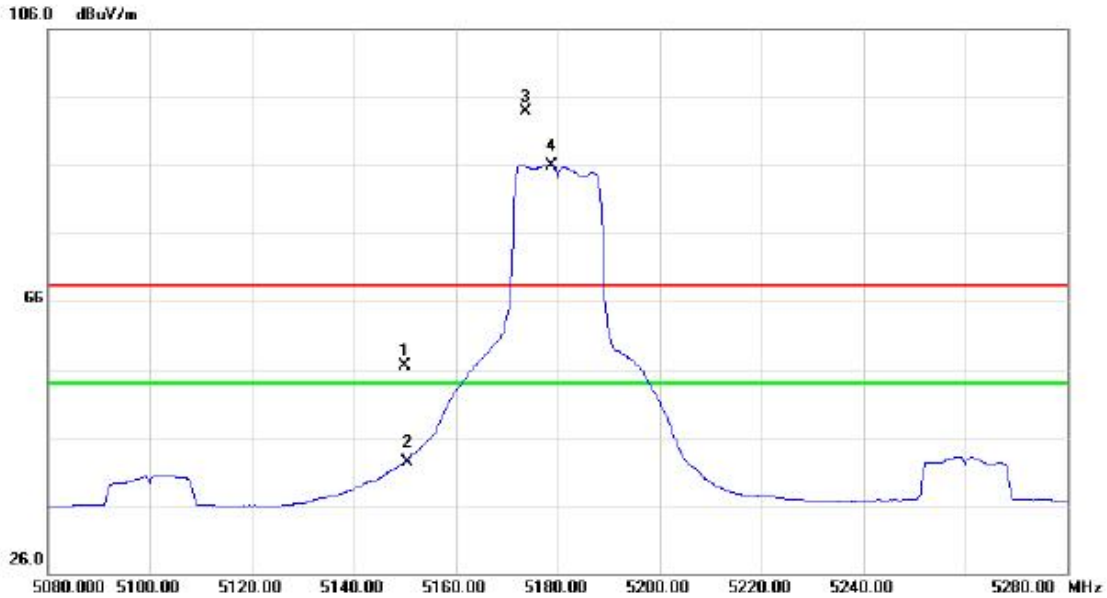
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10359.80	41.42	11.10	52.52	68.30	-15.78	peak	
2	*	10359.80	30.64	11.10	41.74	54.00	-12.26	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	17.45	39.00	56.45	68.30	-11.85	peak	
2		5150.000	3.35	39.00	42.35	54.00	-11.65	AVG	
3	X	5173.800	54.79	39.08	93.87	68.30	25.57	peak	no limit
4	*	5178.800	46.84	39.09	85.93	54.00	31.93	AVG	no limit

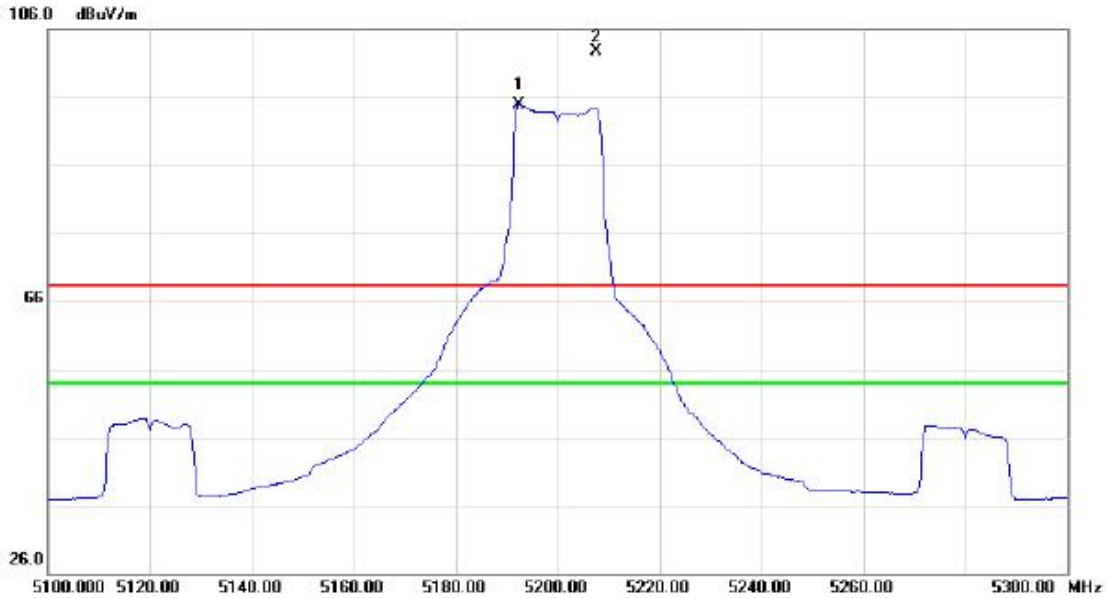
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5180MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10358.300	41.60	11.11	52.71	68.30	-15.59	peak	
2	*	10358.300	30.37	11.11	41.48	54.00	-12.52	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5192.400	55.79	39.14	94.93	54.00	40.93	AVG	no limit
2	X	5207.600	63.43	39.19	102.62	68.30	34.32	peak	no limit

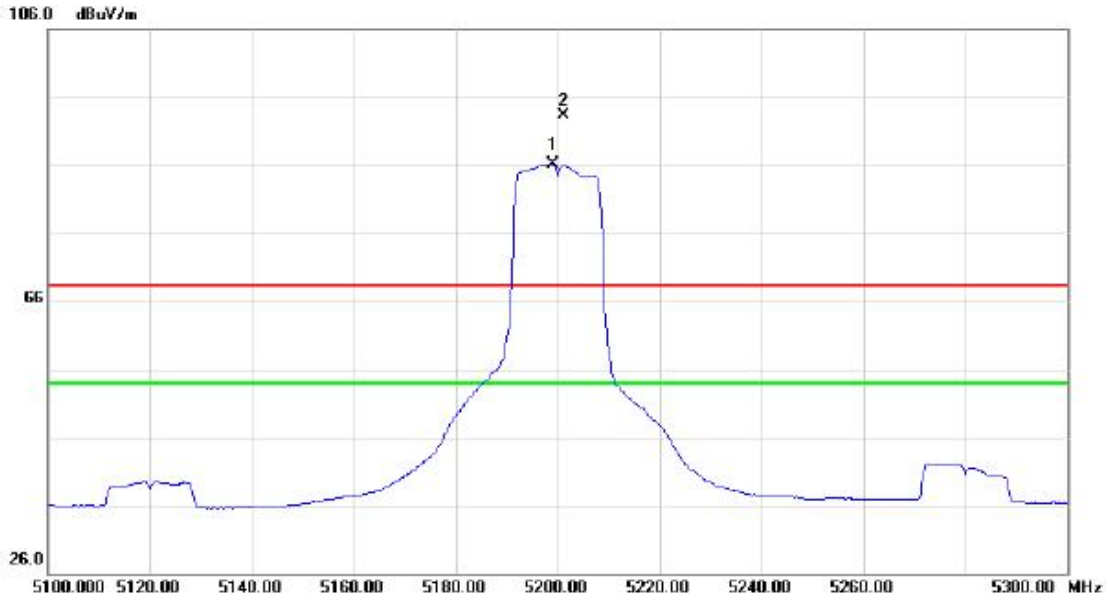
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10400.200	42.71	11.05	53.76	68.30	-14.54	peak	
2	*	10400.200	31.47	11.05	42.52	54.00	-11.48	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5199.000	47.01	39.16	86.17	54.00	32.17	AVG	no limit
2	X	5201.200	54.24	39.16	93.40	68.30	25.10	peak	no limit

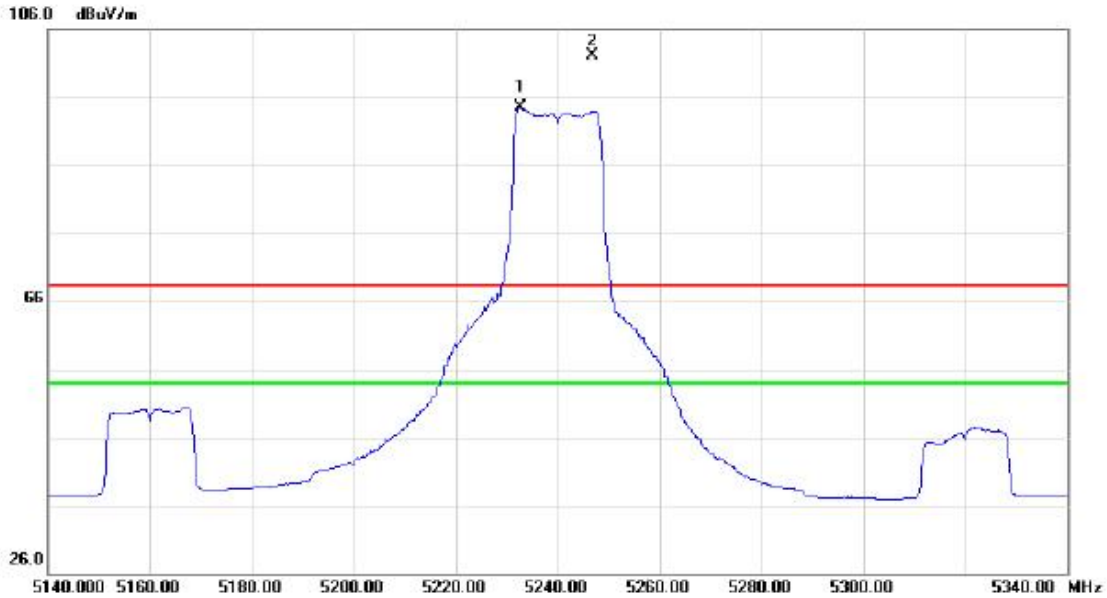
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10399.300	39.99	11.05	51.04	68.30	-17.26	peak	
2	*	10399.300	29.46	11.05	40.51	54.00	-13.49	AVG	

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

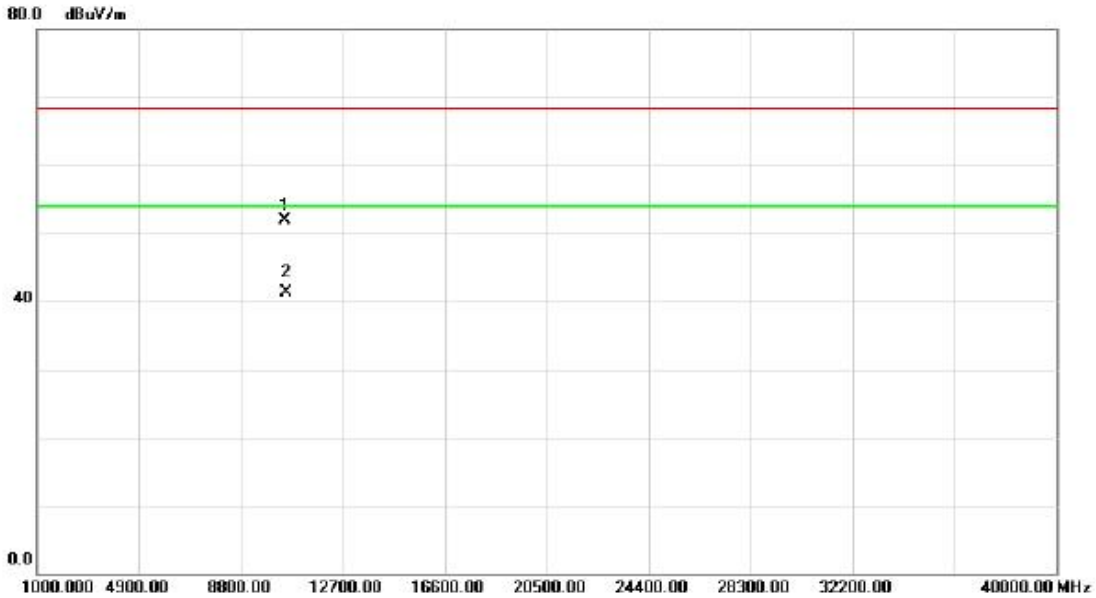
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5232.600	55.30	39.27	94.57	54.00	40.57	AVG	no limit
2	X	5246.800	62.86	39.32	102.18	68.30	33.88	peak	no limit

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

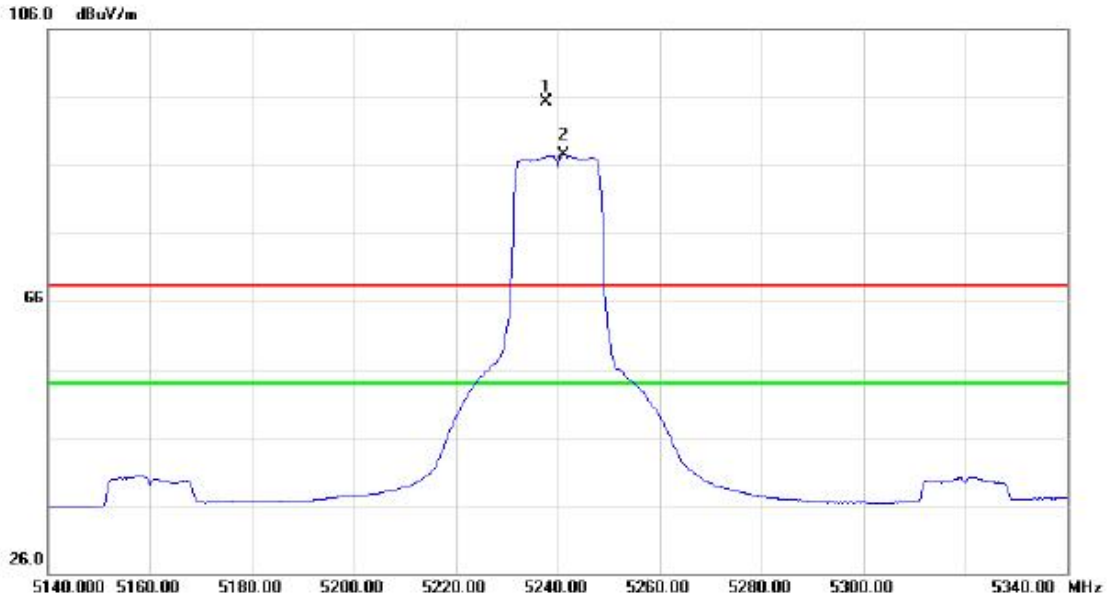
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10481.400	40.93	10.94	51.87	68.30	-16.43	peak	
2	*	10481.400	30.45	10.94	41.39	54.00	-12.61	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5237.600	56.00	39.29	95.29	68.30	26.99	peak	no limit
2	*	5241.200	48.15	39.30	87.45	54.00	33.45	AVG	no limit

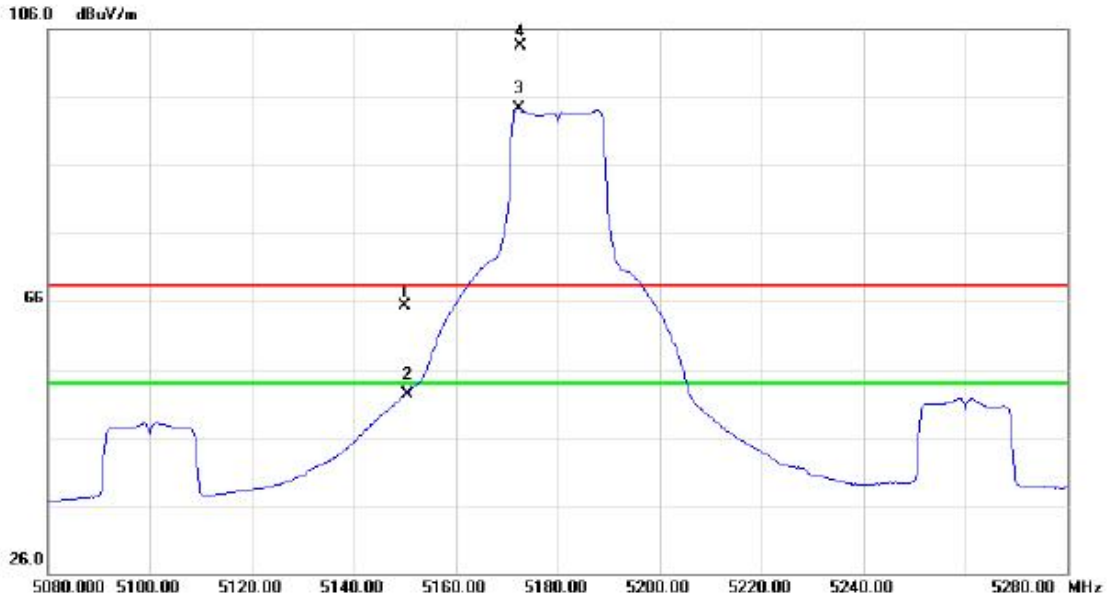
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10481.400	38.04	10.94	48.98	68.30	-19.32	peak	
2	*	10481.400	27.75	10.94	38.69	54.00	-15.31	AVG	

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

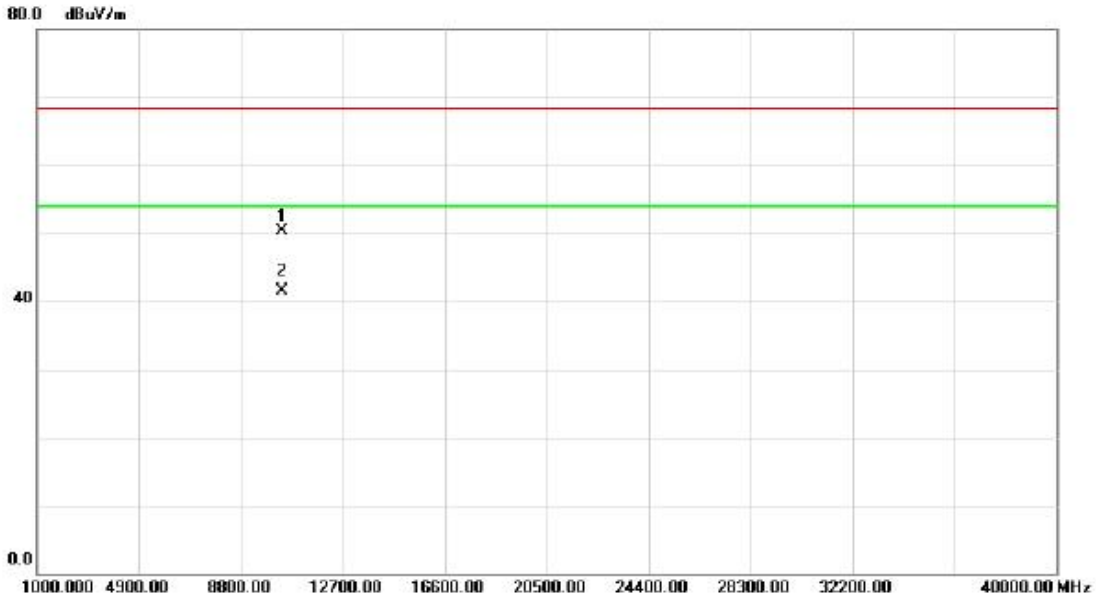
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	26.38	39.00	65.38	68.30	-2.92	peak	
2		5150.000	13.32	39.00	52.32	54.00	-1.68	AVG	
3	*	5172.400	55.25	39.07	94.32	54.00	40.32	AVG	no limit
4	X	5172.600	64.38	39.07	103.45	68.30	35.15	peak	no limit

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

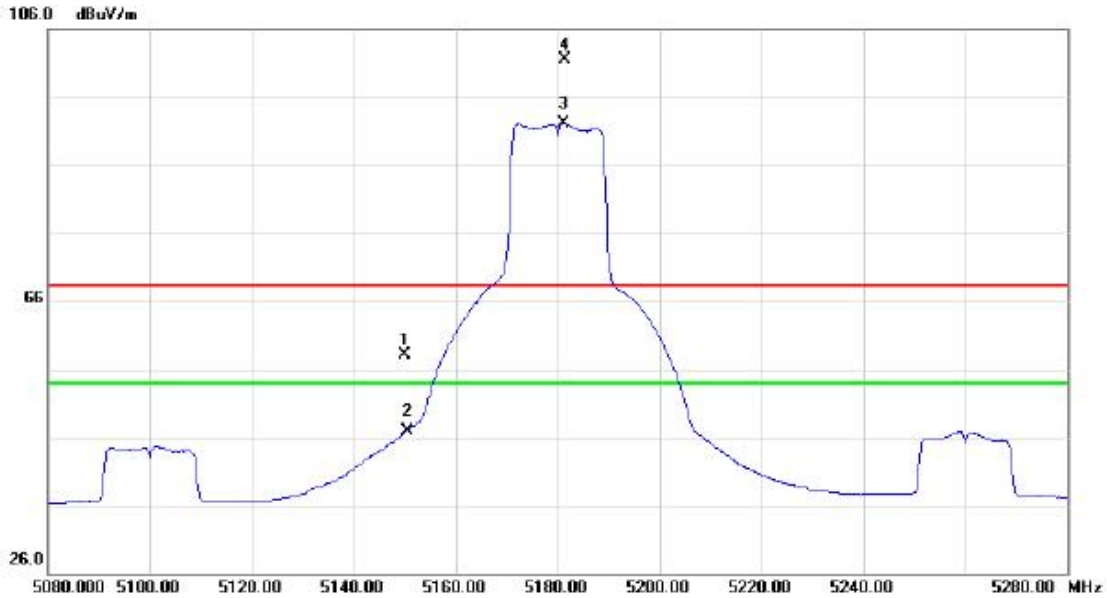
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10360.060	39.30	11.10	50.40	68.30	-17.90	peak	
2	*	10360.060	30.46	11.10	41.56	54.00	-12.44	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	19.03	39.00	58.03	68.30	-10.27	peak	
2		5150.000	7.89	39.00	46.89	54.00	-7.11	AVG	
3	*	5181.200	52.96	39.10	92.06	54.00	38.06	AVG	no limit
4	X	5181.400	62.43	39.10	101.53	68.30	33.23	peak	no limit

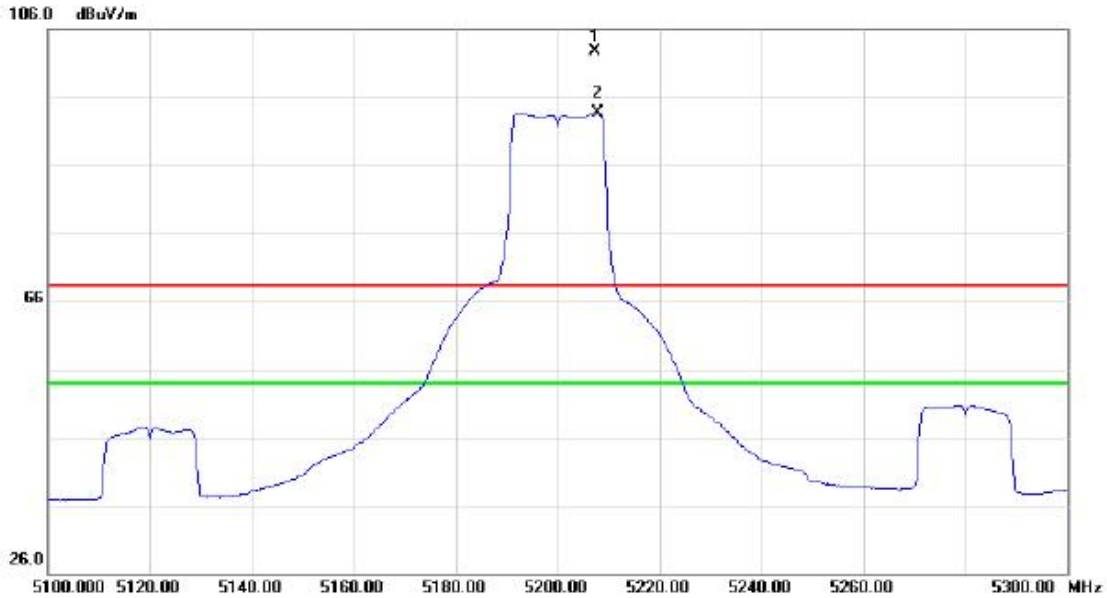
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5180MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10360.120	37.03	11.10	48.13	68.30	-20.17	peak	
2	*	10360.120	28.90	11.10	40.00	54.00	-14.00	AVG	

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

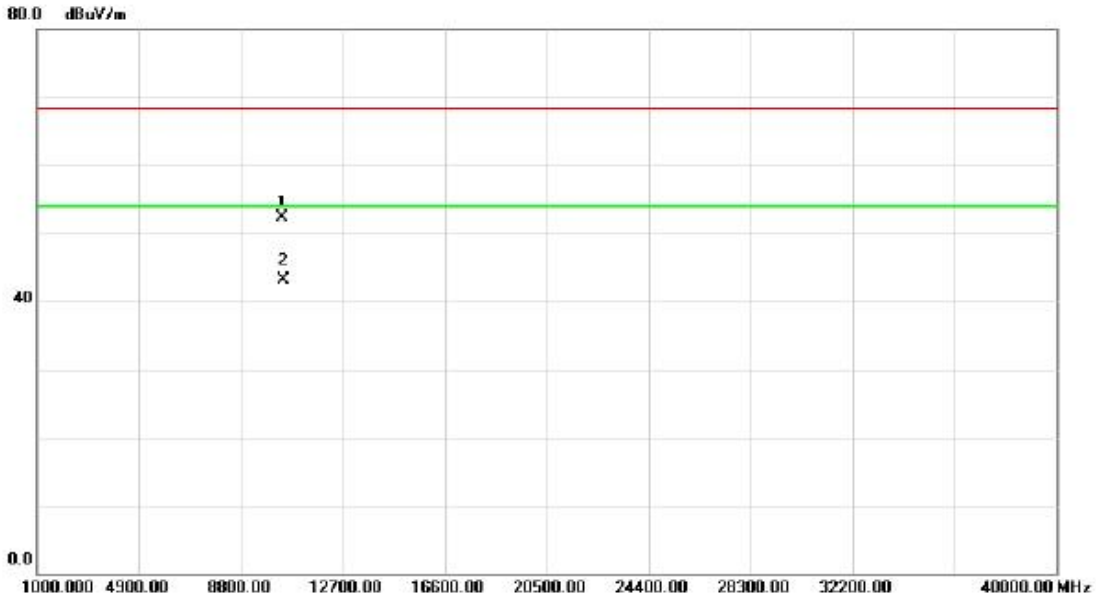
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5207.200	63.49	39.19	102.68	68.30	34.38	peak	no limit
2	*	5207.800	54.61	39.19	93.80	54.00	39.80	AVG	no limit

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

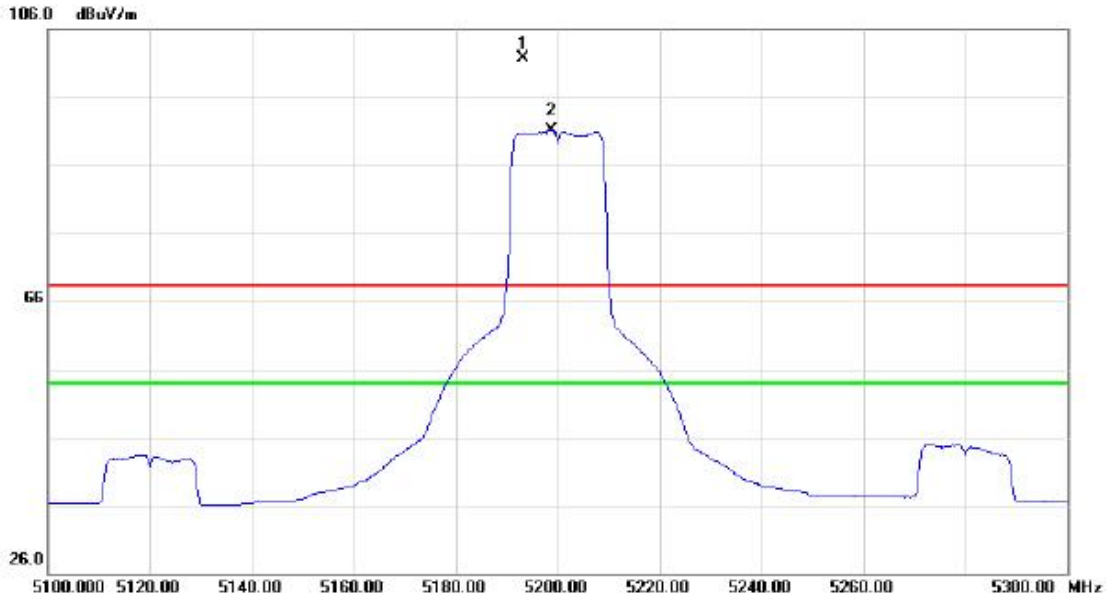
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10400.080	41.28	11.05	52.33	68.30	-15.97	peak	
2	*	10400.080	32.15	11.05	43.20	54.00	-10.80	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5193.200	62.49	39.15	101.64	68.30	33.34	peak	no limit
2	*	5198.800	51.98	39.16	91.14	54.00	37.14	AVG	no limit

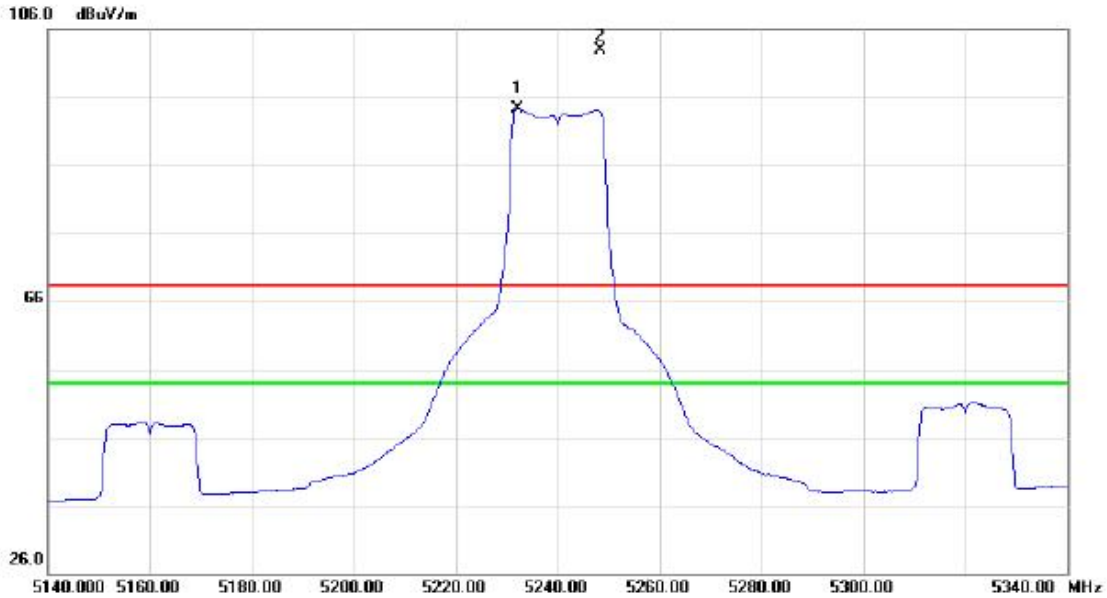
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10400.060	39.79	11.05	50.84	68.30	-17.46	peak	
2	*	10400.060	31.29	11.05	42.34	54.00	-11.66	AVG	

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

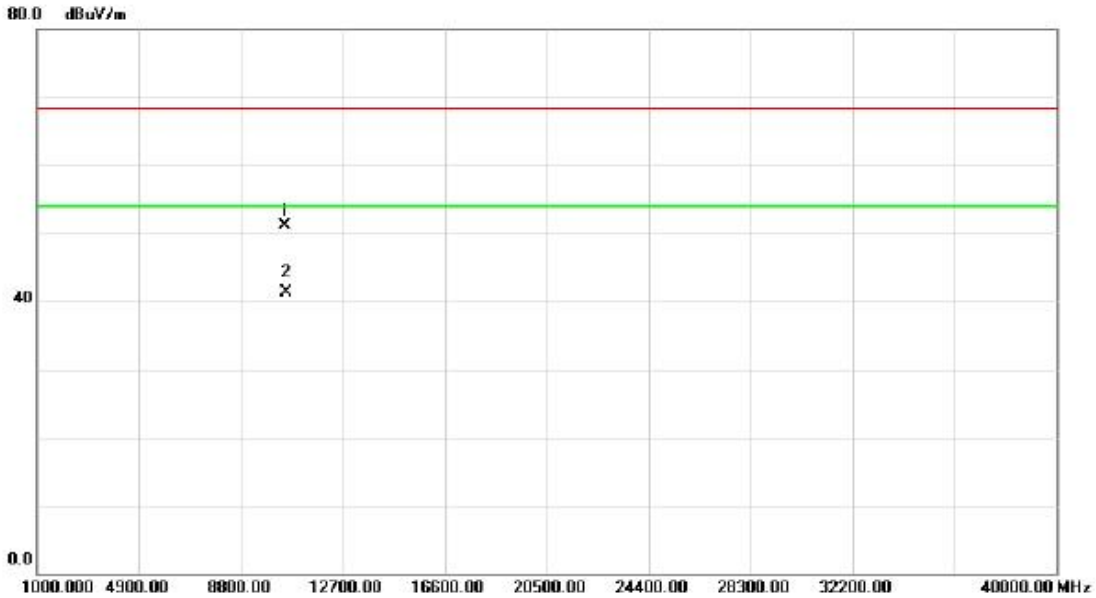
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5232.000	54.96	39.28	94.24	54.00	40.24	AVG	no limit
2	X	5248.400	63.59	39.32	102.91	68.30	34.61	peak	no limit

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

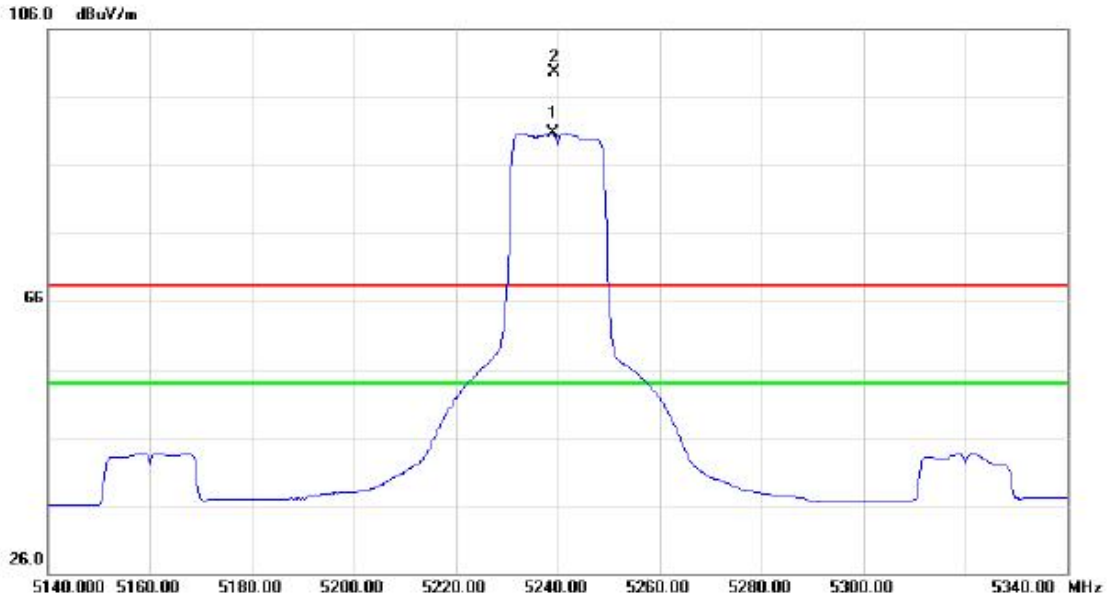
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10480.24	40.11	10.94	51.05	68.30	-17.25	peak	
2	*	10480.24	30.27	10.94	41.21	54.00	-12.79	AVG	

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

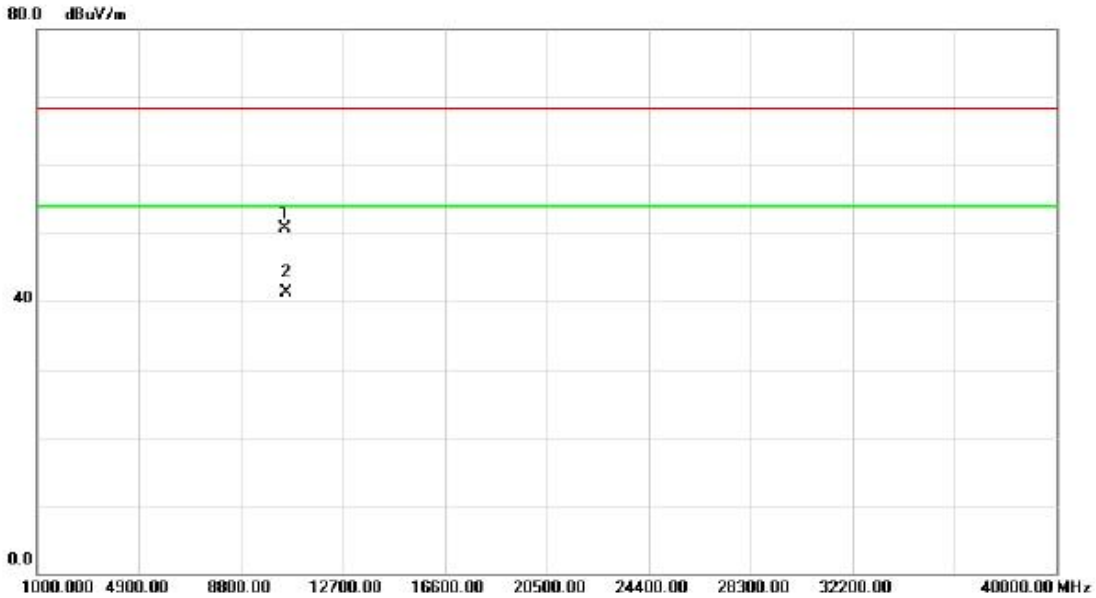
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5239.000	51.46	39.29	90.75	54.00	36.75	AVG	no limit
2	X	5239.200	60.47	39.29	99.76	68.30	31.46	peak	no limit

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

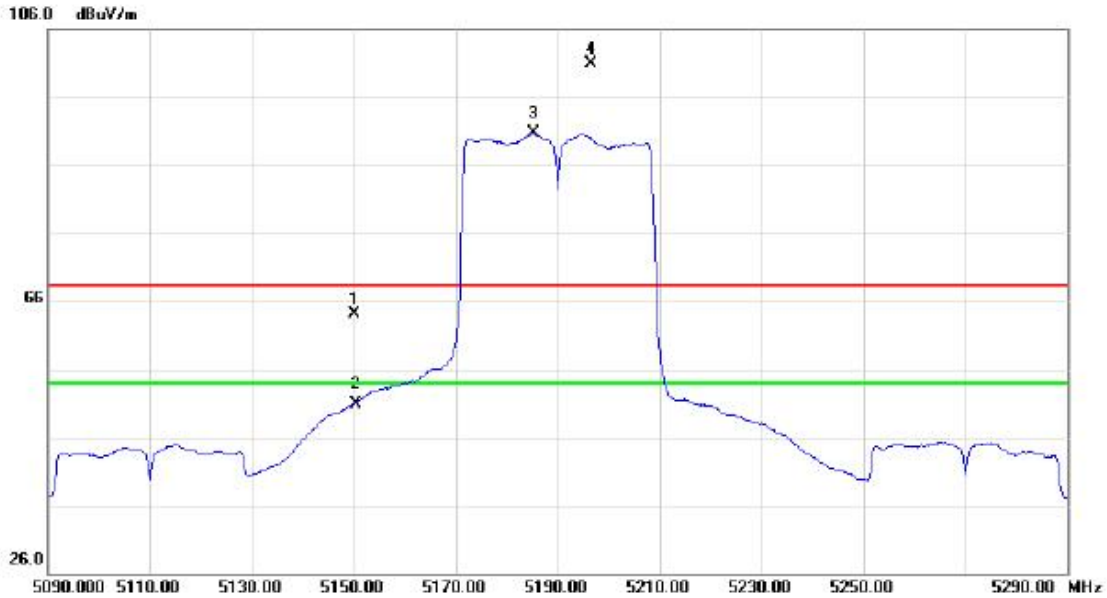
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10480.120	39.78	10.94	50.72	68.30	-17.58	peak	
2	*	10480.120	30.45	10.94	41.39	54.00	-12.61	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	25.06	39.00	64.06	68.30	-4.24	peak	
2		5150.000	11.97	39.00	50.97	54.00	-3.03	AVG	
3	*	5185.200	51.65	39.12	90.77	54.00	36.77	AVG	no limit
4	X	5196.400	61.66	39.16	100.82	68.30	32.52	peak	no limit

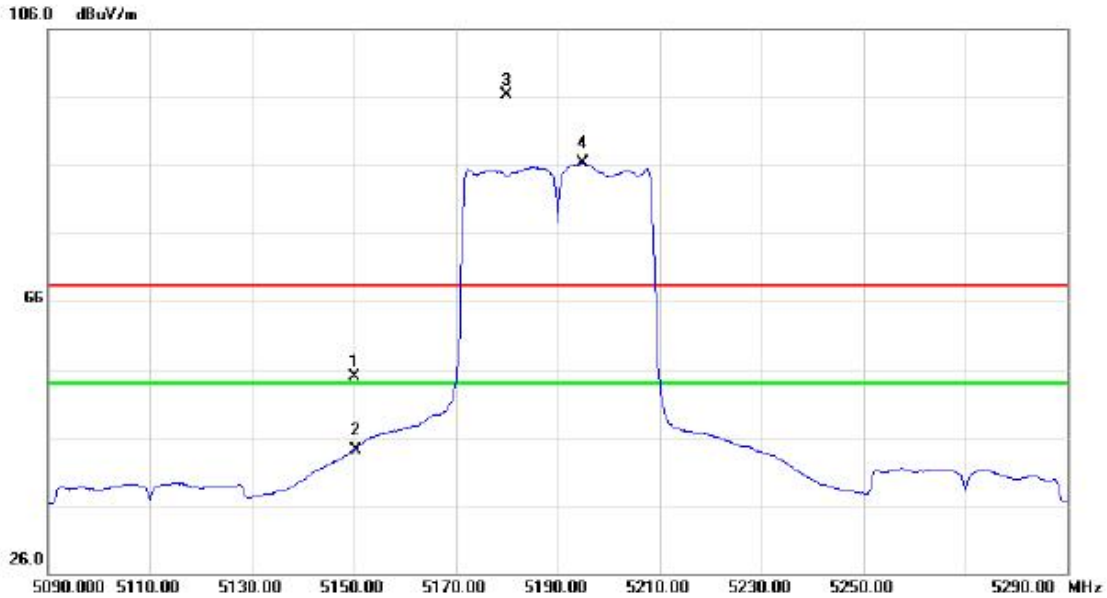
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5190MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10380.46	41.44	11.08	52.52	68.30	-15.78	peak	
2	*	10380.46	30.66	11.08	41.74	54.00	-12.26	AVG	

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

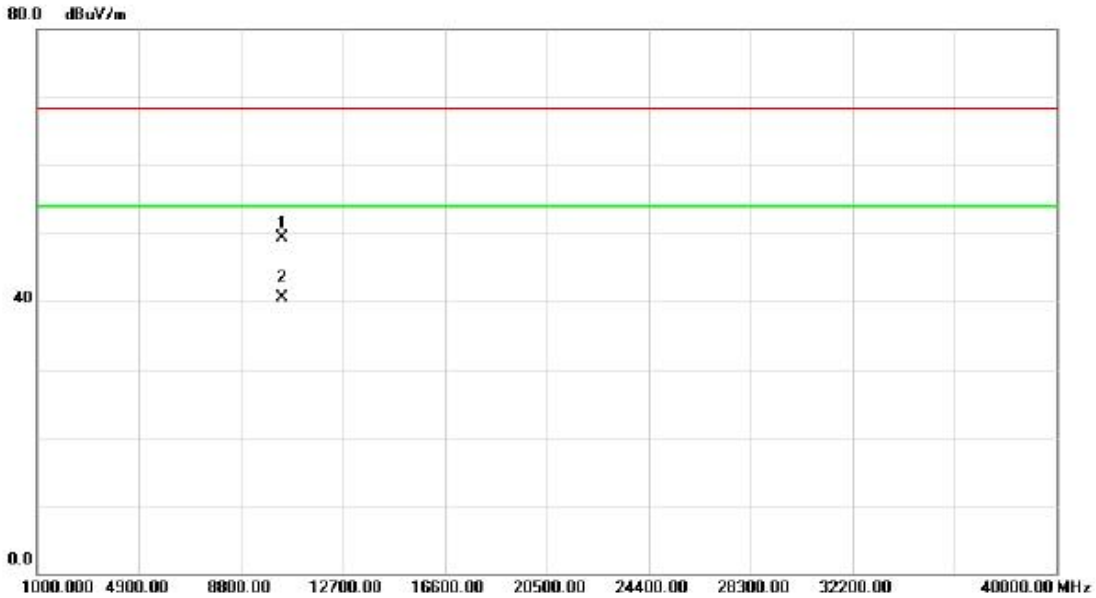
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	15.81	39.00	54.81	68.30	-13.49	peak	
2		5150.000	5.02	39.00	44.02	54.00	-9.98	AVG	
3	X	5180.000	57.12	39.10	96.22	68.30	27.92	peak	no limit
4	*	5194.800	47.19	39.15	86.34	54.00	32.34	AVG	no limit

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

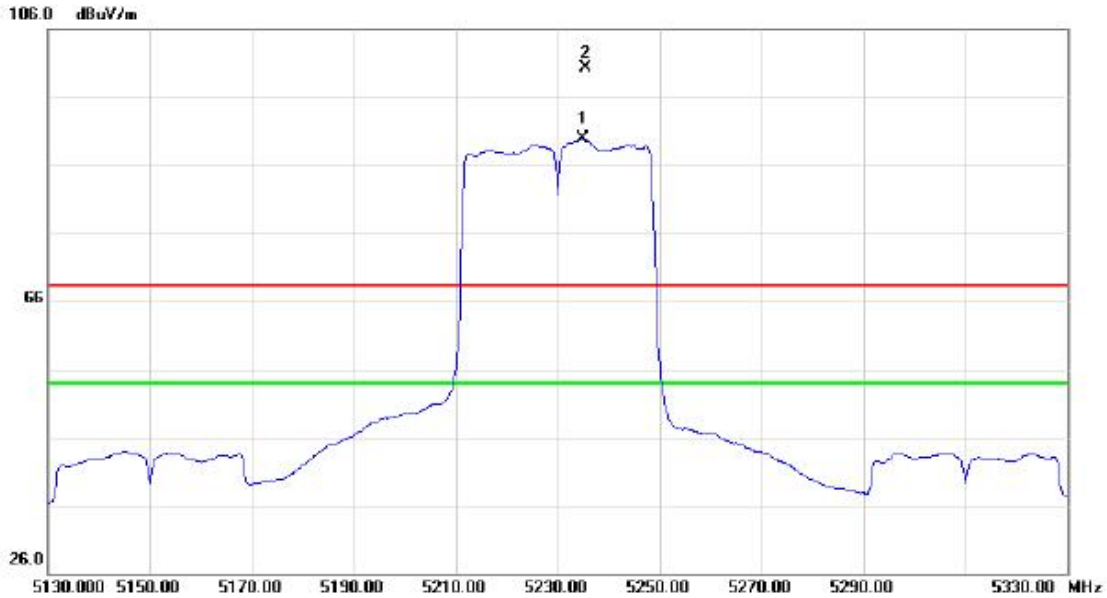
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10380.090	38.17	11.08	49.25	68.30	-19.05	peak	
2	*	10380.090	29.34	11.08	40.42	54.00	-13.58	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5235.000	50.59	39.28	89.87	54.00	35.87	AVG	no limit
2	X	5235.400	61.07	39.28	100.35	68.30	32.05	peak	no limit

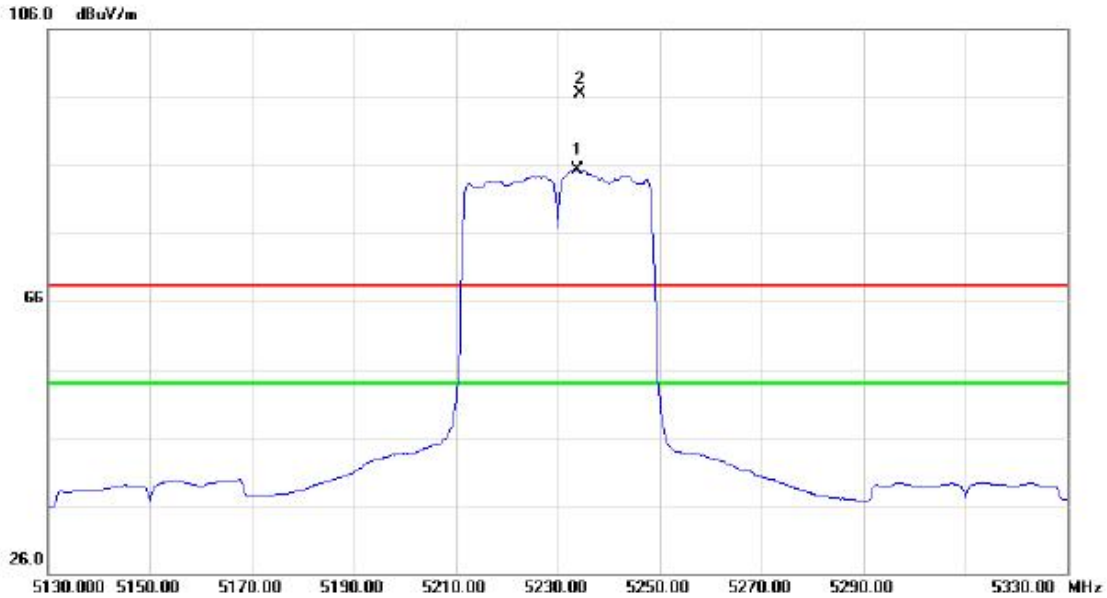
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10460.380	41.75	10.96	52.71	68.30	-15.59	peak	
2	*	10460.380	31.52	10.96	42.48	54.00	-11.52	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5233.800	45.98	39.27	85.25	54.00	31.25	AVG	no limit
2	X	5234.400	57.18	39.27	96.45	68.30	28.15	peak	no limit

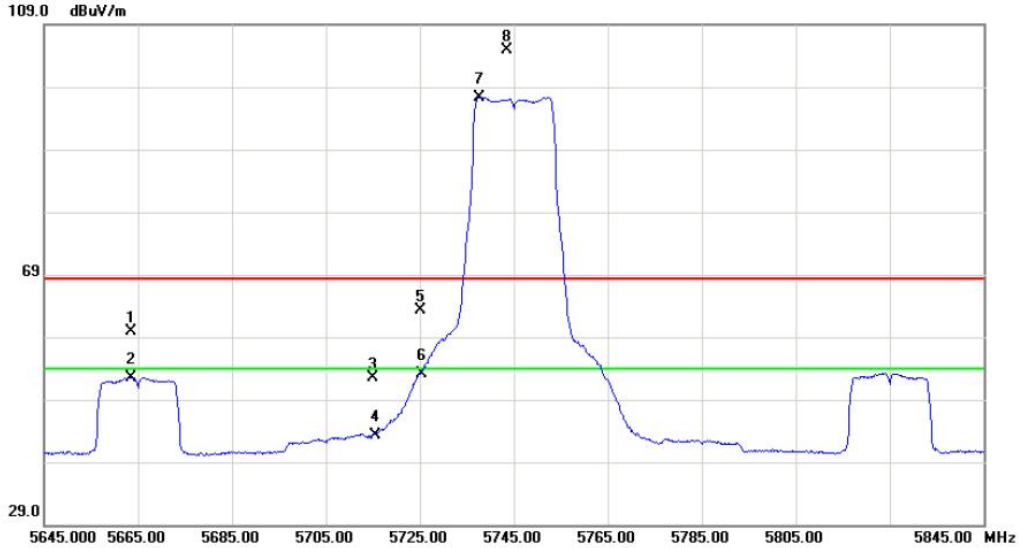
Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10460.300	40.08	10.96	51.04	68.30	-17.26	peak	
2	*	10460.300	29.55	10.96	40.51	54.00	-13.49	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5663.400	18.99	40.84	59.83	68.30	-8.47	peak	
2		5663.400	11.74	40.84	52.58	54.00	-1.42	AVG	
3		5715.000	11.41	41.06	52.47	68.30	-15.83	peak	
4		5715.000	2.21	41.06	43.27	54.00	-10.73	AVG	
5		5725.000	22.16	41.10	63.26	68.30	-5.04	peak	
6		5725.000	12.06	41.10	53.16	54.00	-0.84	AVG	
7	*	5737.600	56.20	41.15	97.35	54.00	43.35	AVG	no limit
8	X	5743.400	63.67	41.17	104.84	68.30	36.54	peak	no limit

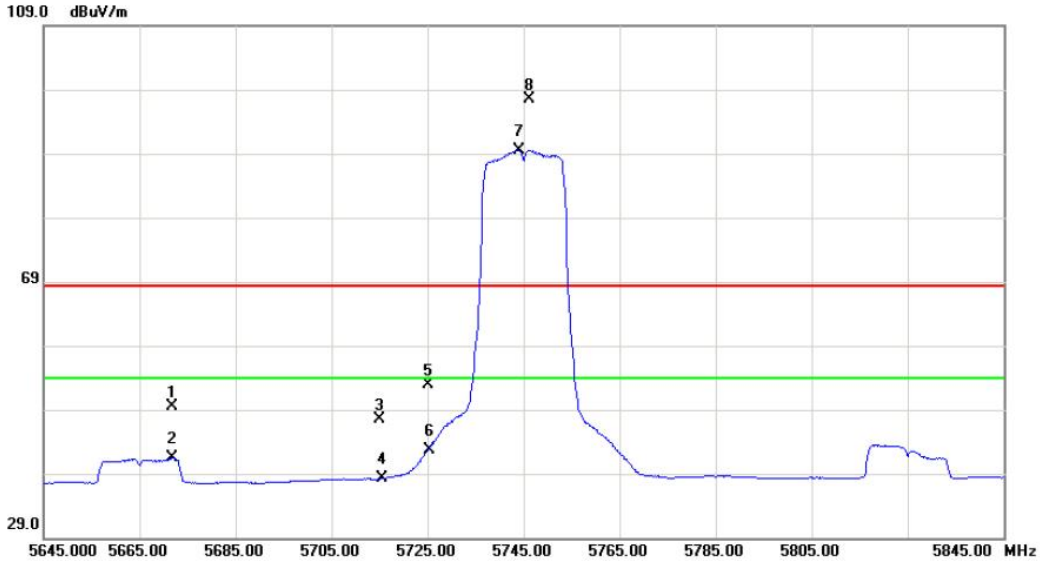
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11492.500	39.48	12.92	52.40	68.30	-15.90	peak	
2	*	11492.500	28.64	12.92	41.56	54.00	-12.44	AVG	

Orthogonal Axis:	X
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		5671.800	8.71	40.88	49.59	68.30	-18.71	peak	
2		5671.800	0.66	40.88	41.54	54.00	-12.46	AVG	
3		5715.000	6.50	41.06	47.56	68.30	-20.74	peak	
4		5715.000	-2.86	41.06	38.20	54.00	-15.80	AVG	
5		5725.000	11.81	41.10	52.91	68.30	-15.39	peak	
6		5725.000	1.66	41.10	42.76	54.00	-11.24	AVG	
7	*	5744.000	48.41	41.17	89.58	54.00	35.58	AVG	no limit
8	X	5746.200	56.37	41.18	97.55	68.30	29.25	peak	no limit

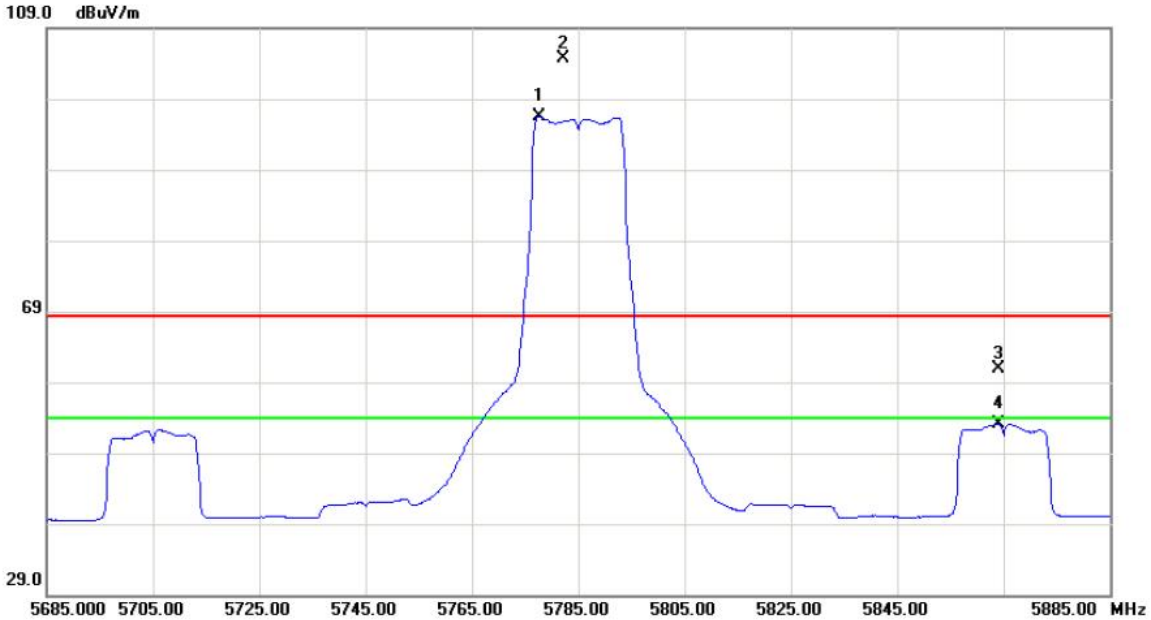
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11491.70	37.81	12.91	50.72	68.30	-17.58	peak	
2	*	11491.70	28.48	12.91	41.39	54.00	-12.61	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5777.600	55.23	41.31	96.54	54.00	42.54	AVG	no limit
2	X	5782.200	63.28	41.33	104.61	68.30	36.31	peak	no limit
3		5864.000	19.26	41.67	60.93	68.30	-7.37	peak	
4		5864.000	11.47	41.67	53.14	54.00	-0.86	AVG	

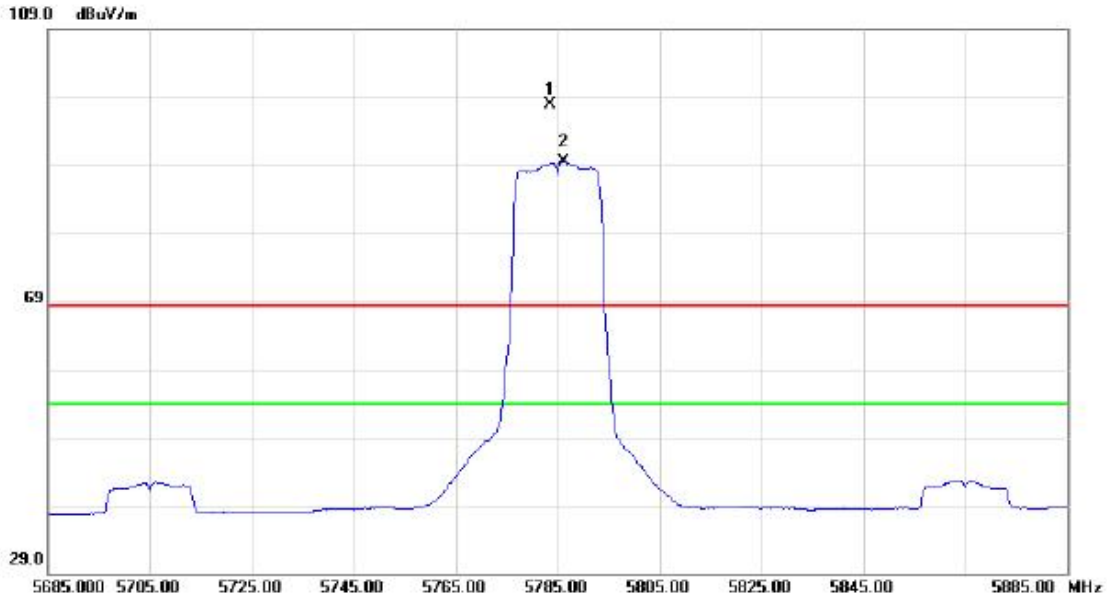
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11571.800	40.24	12.89	53.13	68.30	-15.17	peak	
2	*	11571.800	29.11	12.89	42.00	54.00	-12.00	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5783.600	56.47	41.34	97.81	68.30	29.51	peak	no limit
2	*	5786.200	48.12	41.35	89.47	54.00	35.47	AVG	no limit

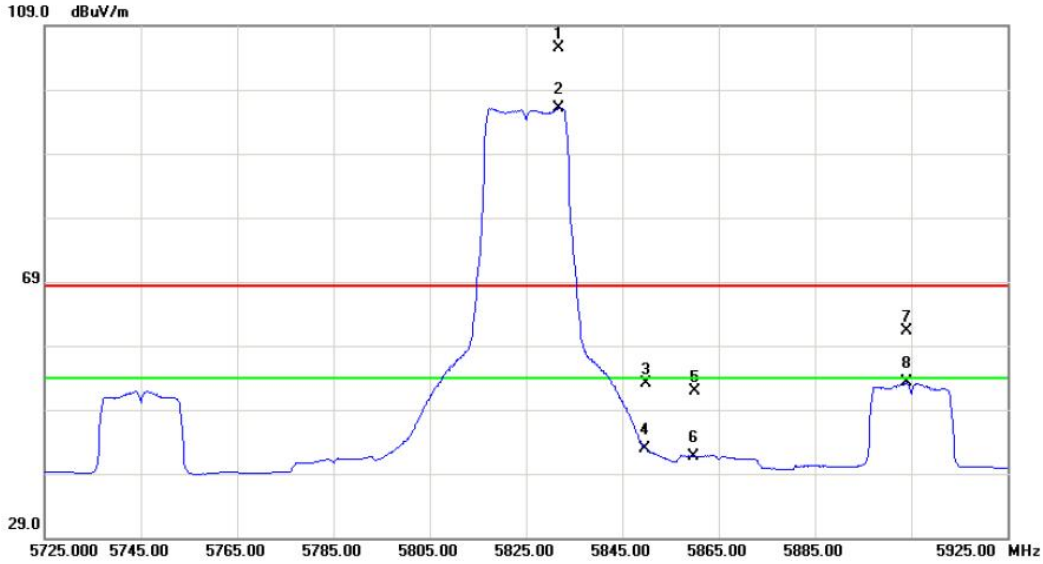
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5785MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.400	38.16	12.89	51.05	68.30	-17.25	peak	
2	*	11570.400	28.32	12.89	41.21	54.00	-12.79	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5831.800	64.01	41.54	105.55	68.30	37.25	peak	no limit
2	*	5831.800	54.54	41.54	96.08	54.00	42.08	AVG	no limit
3		5850.000	11.43	41.62	53.05	68.30	-15.25	peak	
4		5850.000	1.24	41.62	42.86	54.00	-11.14	AVG	
5		5860.000	10.18	41.65	51.83	68.30	-16.47	peak	
6		5860.000	-0.04	41.65	41.61	54.00	-12.39	AVG	
7		5904.000	19.55	41.84	61.39	68.30	-6.91	peak	
8		5904.000	11.36	41.84	53.20	54.00	-0.80	AVG	

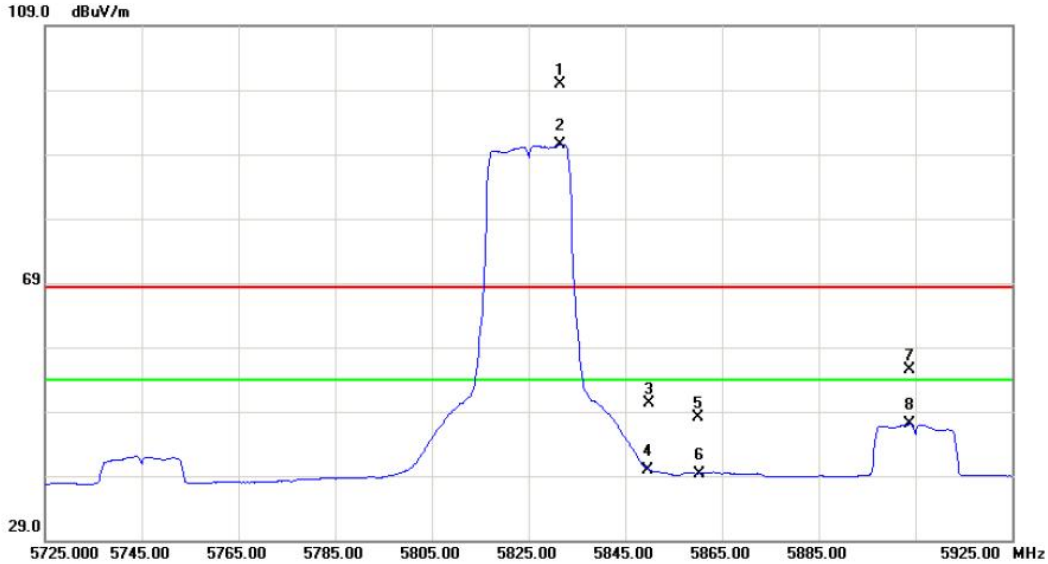
Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5825MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11652.300	39.49	12.84	52.33	68.30	-15.97	peak	
2	*	11652.300	28.36	12.84	41.20	54.00	-12.80	AVG	

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

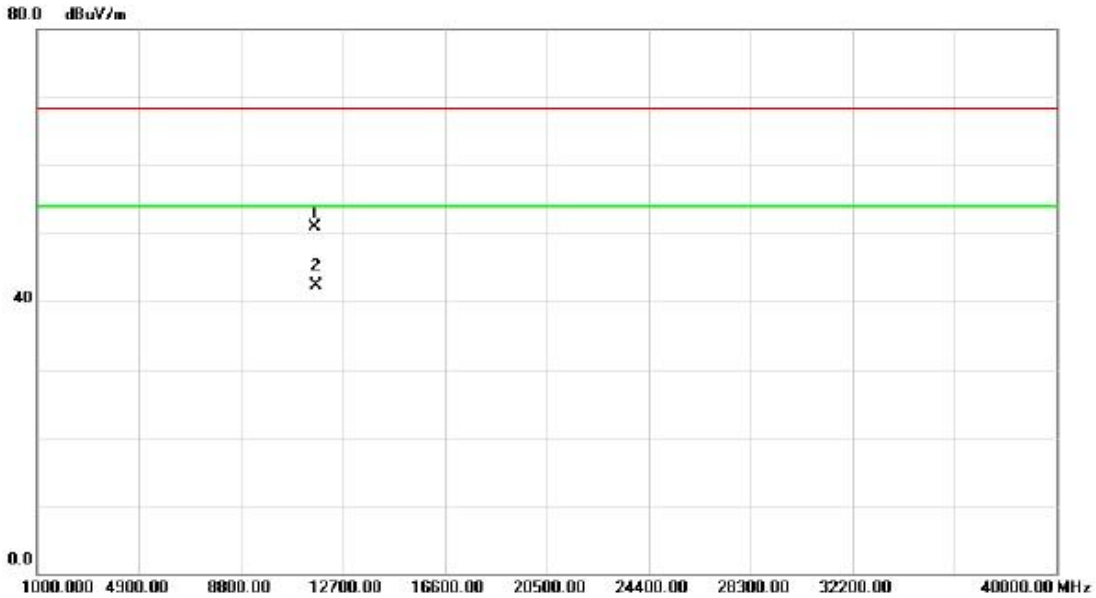
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5831.600	58.43	41.54	99.97	68.30	31.67	peak	no limit
2	*	5831.600	49.04	41.54	90.58	54.00	36.58	AVG	no limit
3		5850.000	8.65	41.62	50.27	68.30	-18.03	peak	
4		5850.000	-1.65	41.62	39.97	54.00	-14.03	AVG	
5		5860.000	6.37	41.65	48.02	68.30	-20.28	peak	
6		5860.000	-2.27	41.65	39.38	54.00	-14.62	AVG	
7		5903.800	13.63	41.84	55.47	68.30	-12.83	peak	
8		5903.800	5.18	41.84	47.02	54.00	-6.98	AVG	

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

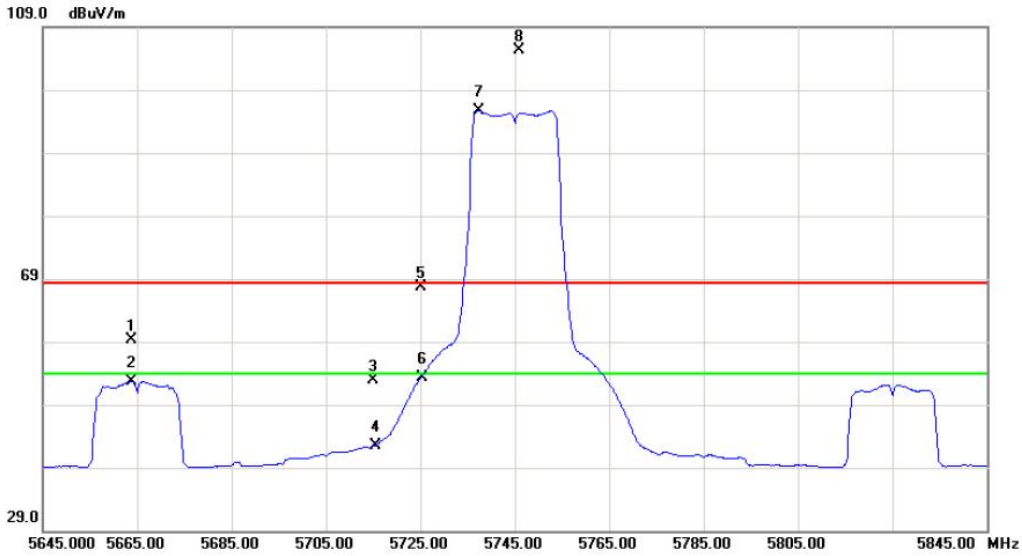
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11652.30	38.00	12.84	50.84	68.30	-17.46	peak	
2	*	11652.30	29.50	12.84	42.34	54.00	-11.66	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5663.800	18.45	40.84	59.29	68.30	-9.01	peak	
2		5663.800	11.84	40.84	52.68	54.00	-1.32	AVG	
3		5715.000	11.94	41.06	53.00	68.30	-15.30	peak	
4		5715.000	1.35	41.06	42.41	54.00	-11.59	AVG	
5		5725.000	26.59	41.10	67.69	68.30	-0.61	peak	
6		5725.000	12.21	41.10	53.31	54.00	-0.69	AVG	
7	*	5737.400	54.53	41.14	95.67	54.00	41.67	AVG	no limit
8	X	5745.800	64.21	41.18	105.39	68.30	37.09	peak	no limit

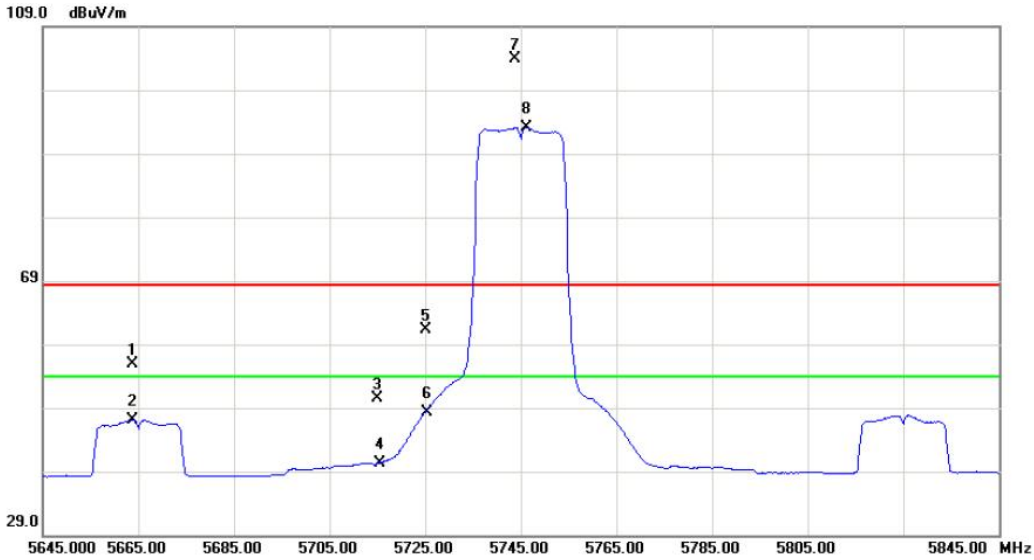
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5745MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.200	39.61	12.91	52.52	68.30	-15.78	peak	
2	*	11490.200	28.83	12.91	41.74	54.00	-12.26	AVG	

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

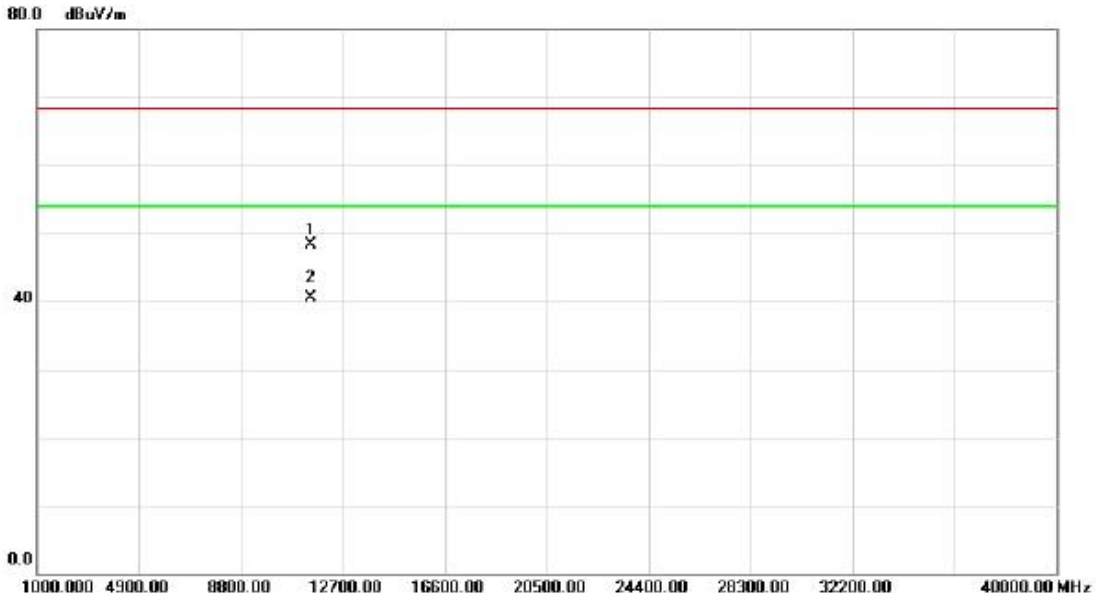
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5663.800	15.04	40.84	55.88	68.30	-12.42	peak	
2		5663.800	6.25	40.84	47.09	54.00	-6.91	AVG	
3		5715.000	9.51	41.06	50.57	68.30	-17.73	peak	
4		5715.000	-0.80	41.06	40.26	54.00	-13.74	AVG	
5		5725.000	20.19	41.10	61.29	68.30	-7.01	peak	
6		5725.000	7.30	41.10	48.40	54.00	-5.60	AVG	
7	X	5743.800	62.72	41.17	103.89	68.30	35.59	peak	no limit
8	*	5746.200	51.91	41.18	93.09	54.00	39.09	AVG	no limit

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

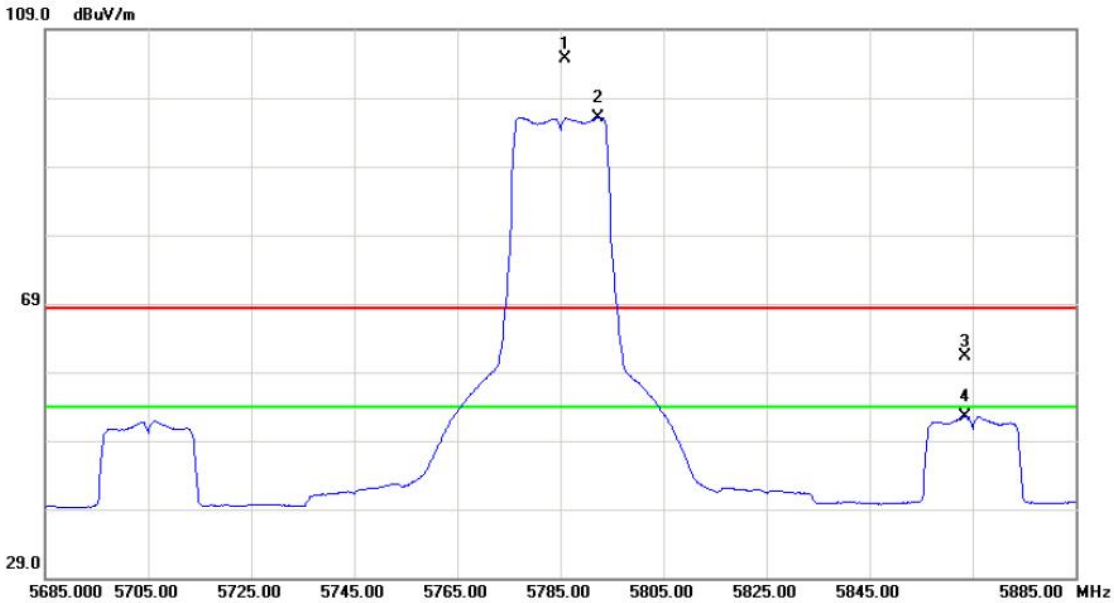
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11490.060	35.32	12.91	48.23	68.30	-20.07	peak	
2	*	11490.060	27.51	12.91	40.42	54.00	-13.58	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5786.000	63.28	41.35	104.63	68.30	36.33	peak	no limit
2	*	5792.400	54.82	41.38	96.20	54.00	42.20	AVG	no limit
3		5863.600	19.56	41.67	61.23	68.30	-7.07	peak	
4		5863.600	10.93	41.67	52.60	54.00	-1.40	AVG	

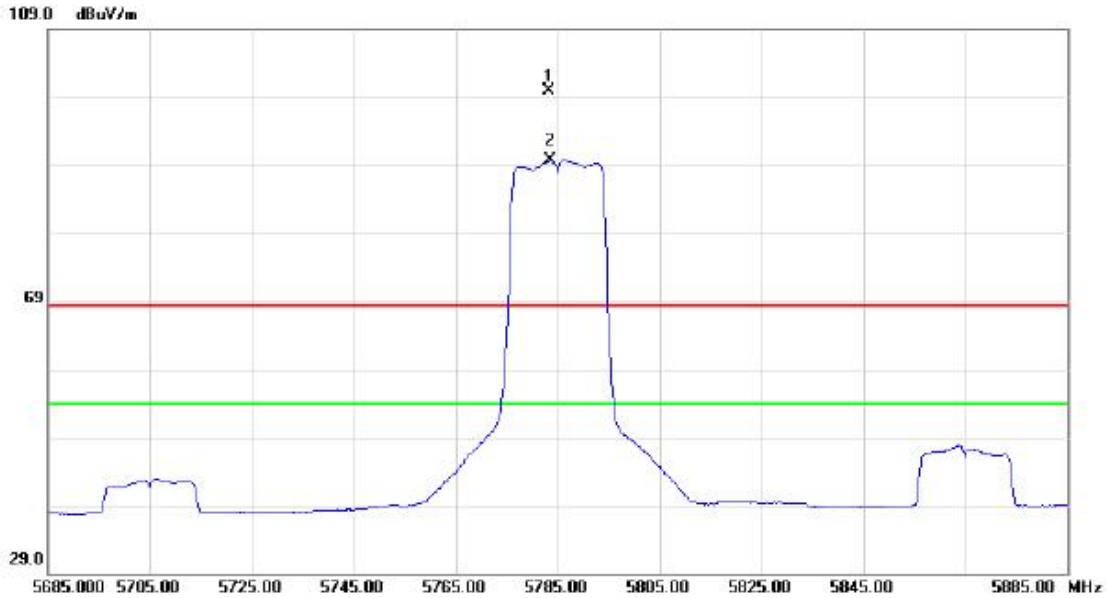
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.600	39.82	12.89	52.71	68.30	-15.59	peak	
2	*	11570.600	29.59	12.89	42.48	54.00	-11.52	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5783.200	58.53	41.34	99.87	68.30	31.57	peak	no limit
2	*	5783.600	48.41	41.34	89.75	54.00	35.75	AVG	no limit

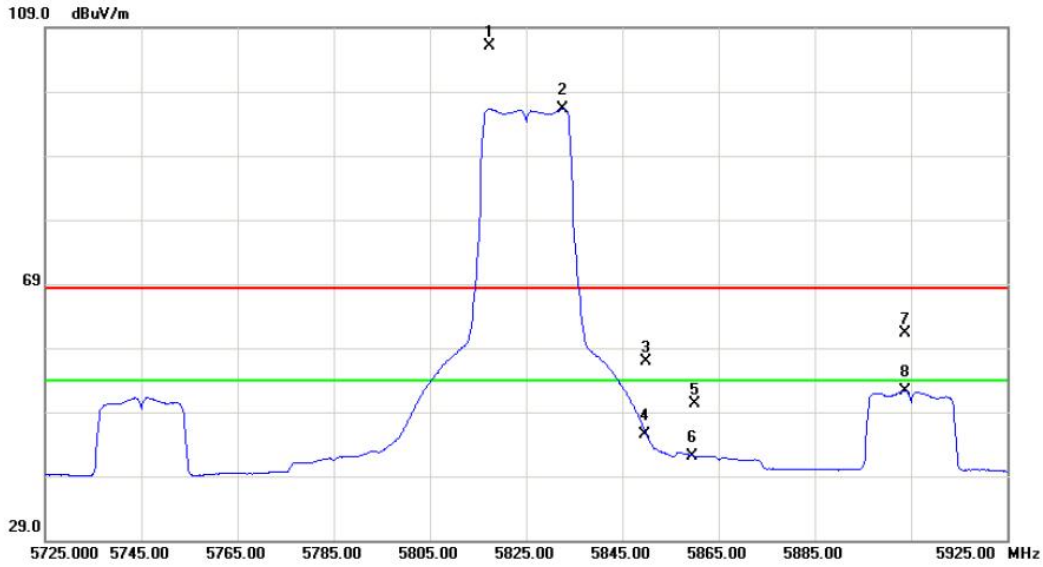
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11570.200	38.15	12.89	51.04	68.30	-17.26	peak	
2	*	11570.200	28.62	12.89	41.51	54.00	-12.49	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5817.400	64.61	41.48	106.09	68.30	37.79	peak	no limit
2	*	5832.600	54.82	41.54	96.36	54.00	42.36	AVG	no limit
3		5850.000	15.27	41.62	56.89	68.30	-11.41	peak	
4		5850.000	3.97	41.62	45.59	54.00	-8.41	AVG	
5		5860.000	8.69	41.65	50.34	68.30	-17.96	peak	
6		5860.000	0.50	41.65	42.15	54.00	-11.85	AVG	
7		5903.800	19.47	41.84	61.31	68.30	-6.99	peak	
8		5903.800	10.51	41.84	52.35	54.00	-1.65	AVG	

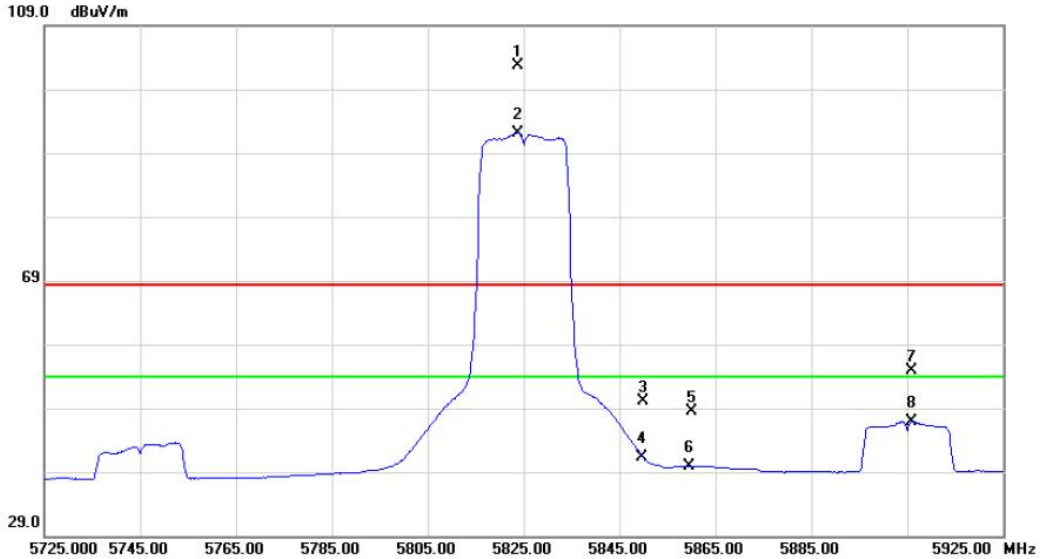
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11649.98	39.03	12.84	51.87	68.30	-16.43	peak	
2	*	11649.98	28.55	12.84	41.39	54.00	-12.61	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5823.800	61.27	41.50	102.77	68.30	34.47	peak	no limit
2	*	5823.800	50.70	41.50	92.20	54.00	38.20	AVG	no limit
3		5850.000	8.49	41.62	50.11	68.30	-18.19	peak	
4		5850.000	-0.33	41.62	41.29	54.00	-12.71	AVG	
5		5860.000	6.80	41.65	48.45	68.30	-19.85	peak	
6		5860.000	-1.76	41.65	39.89	54.00	-14.11	AVG	
7		5906.000	12.99	41.85	54.84	68.30	-13.46	peak	
8		5906.000	5.05	41.85	46.90	54.00	-7.10	AVG	

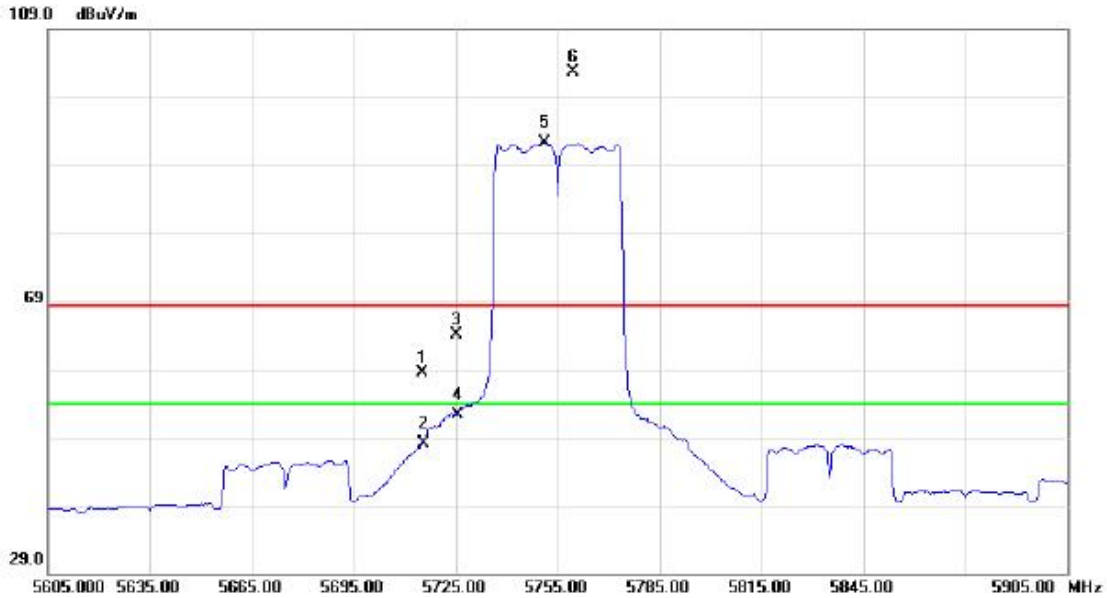
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5825MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11650.890	36.14	12.84	48.98	68.30	-19.32	peak	
2	*	11650.890	25.85	12.84	38.69	54.00	-15.31	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	17.43	41.06	58.49	68.30	-9.81	peak	
2		5715.000	6.96	41.06	48.02	54.00	-5.98	AVG	
3		5725.000	22.98	41.10	64.08	68.30	-4.22	peak	
4		5725.000	11.29	41.10	52.39	54.00	-1.61	AVG	
5	*	5751.100	51.11	41.20	92.31	54.00	38.31	AVG	no limit
6	X	5759.500	61.56	41.24	102.80	68.30	34.50	peak	no limit

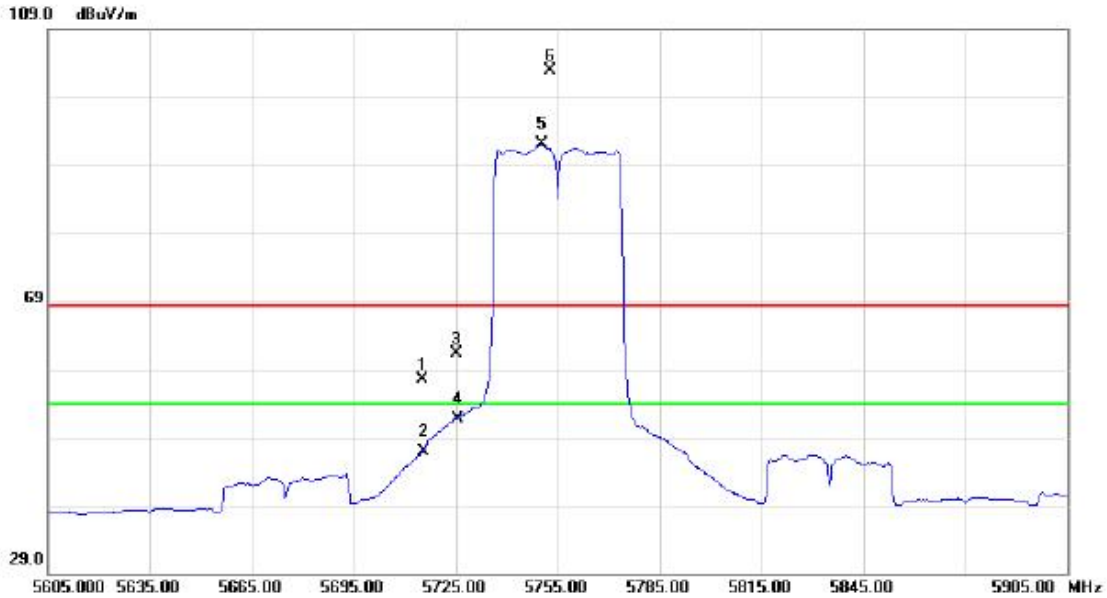
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11510.28	40.82	12.94	53.76	68.30	-14.54	peak	
2	*	11510.28	29.58	12.94	42.52	54.00	-11.48	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	16.42	41.06	57.48	68.30	-10.82	peak	
2		5715.000	5.80	41.06	46.86	54.00	-7.14	AVG	
3		5725.000	20.19	41.10	61.29	68.30	-7.01	peak	
4		5725.000	10.67	41.10	51.77	54.00	-2.23	AVG	
5	*	5750.200	50.86	41.20	92.06	54.00	38.06	AVG	no limit
6	X	5752.900	61.71	41.21	102.92	68.30	34.62	peak	no limit

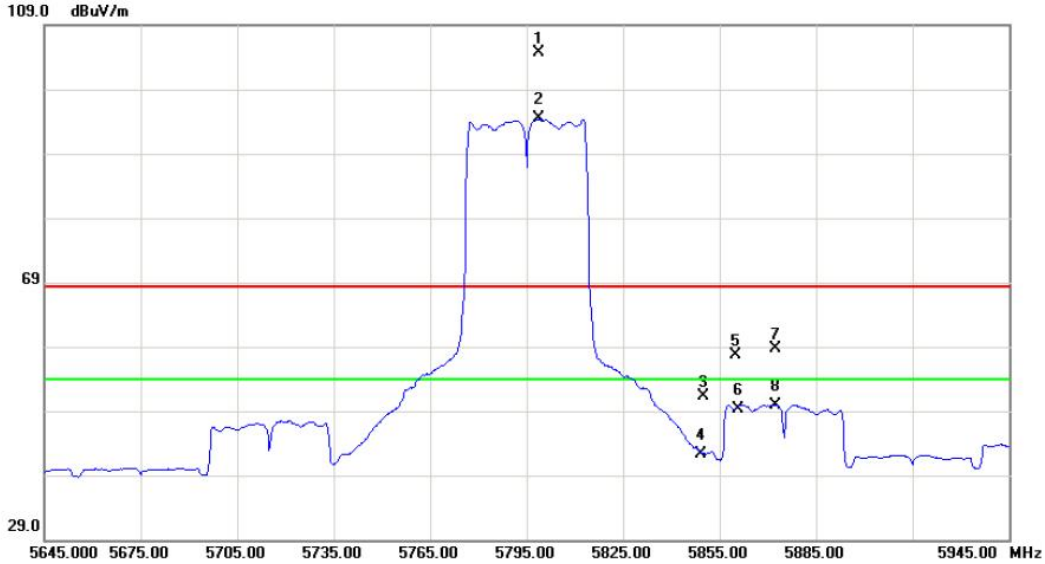
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5755MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11511.090	38.59	12.93	51.52	68.30	-16.78	peak	
2	*	11511.090	28.81	12.93	41.74	54.00	-12.26	AVG	

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

Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	X	5798.600	63.32	41.40	104.72	68.30	36.42	peak	no limit
2	*	5798.600	53.01	41.40	94.41	54.00	40.41	AVG	no limit
3		5850.000	9.70	41.62	51.32	68.30	-16.98	peak	
4		5850.000	0.78	41.62	42.40	54.00	-11.60	AVG	
5		5860.000	16.02	41.65	57.67	68.30	-10.63	peak	
6		5860.000	7.72	41.65	49.37	54.00	-4.63	AVG	
7		5872.400	17.04	41.71	58.75	68.30	-9.55	peak	
8		5872.400	8.29	41.71	50.00	54.00	-4.00	AVG	

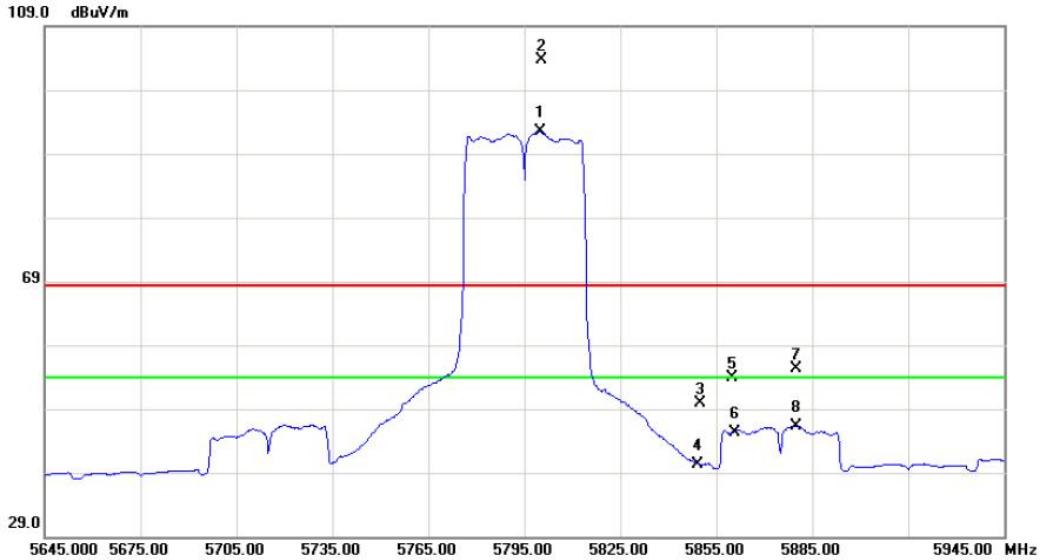
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

Vertical

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.18	39.64	12.88	52.52	68.30	-15.78	peak	
2	*	11590.18	28.86	12.88	41.74	54.00	-12.26	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5800.100	51.07	41.41	92.48	54.00	38.48	AVG	no limit
2	X	5800.400	62.27	41.41	103.68	68.30	35.38	peak	no limit
3		5850.000	8.19	41.62	49.81	68.30	-18.49	peak	
4		5850.000	-1.27	41.62	40.35	54.00	-13.65	AVG	
5		5860.000	12.18	41.65	53.83	68.30	-14.47	peak	
6		5860.000	3.65	41.65	45.30	54.00	-8.70	AVG	
7		5879.900	13.59	41.74	55.33	68.30	-12.97	peak	
8		5879.900	4.61	41.74	46.35	54.00	-7.65	AVG	

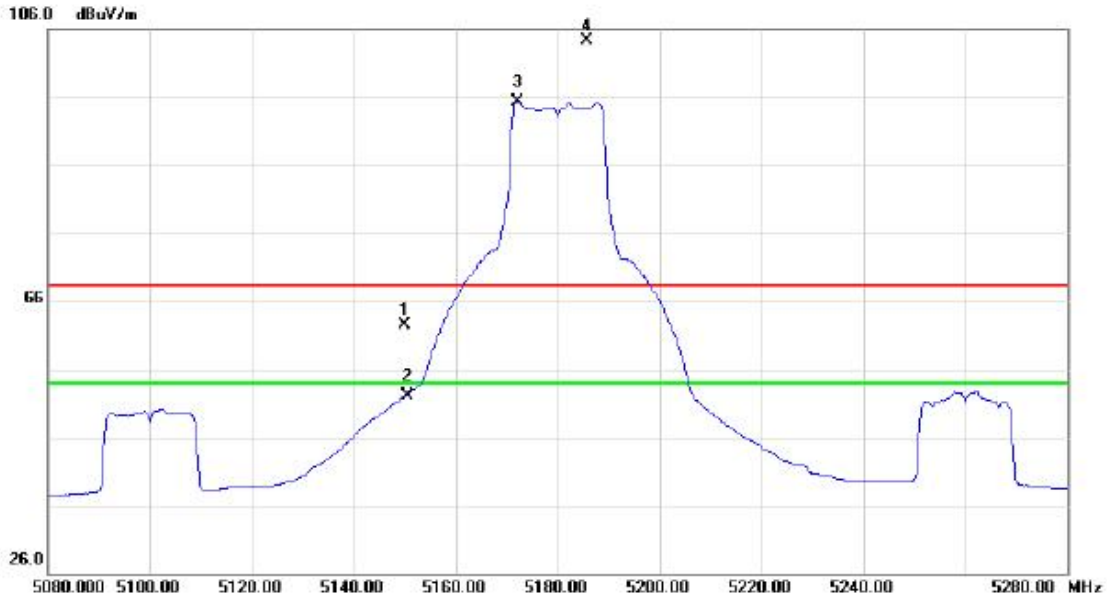
Orthogonal Axis:	X
Test Mode:	UNII-3/TX N40 Mode 5795MHz

Horizontal

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		11590.290	38.64	12.88	51.52	68.30	-16.78	peak	
2	*	11590.290	28.26	12.88	41.14	54.00	-12.86	AVG	

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

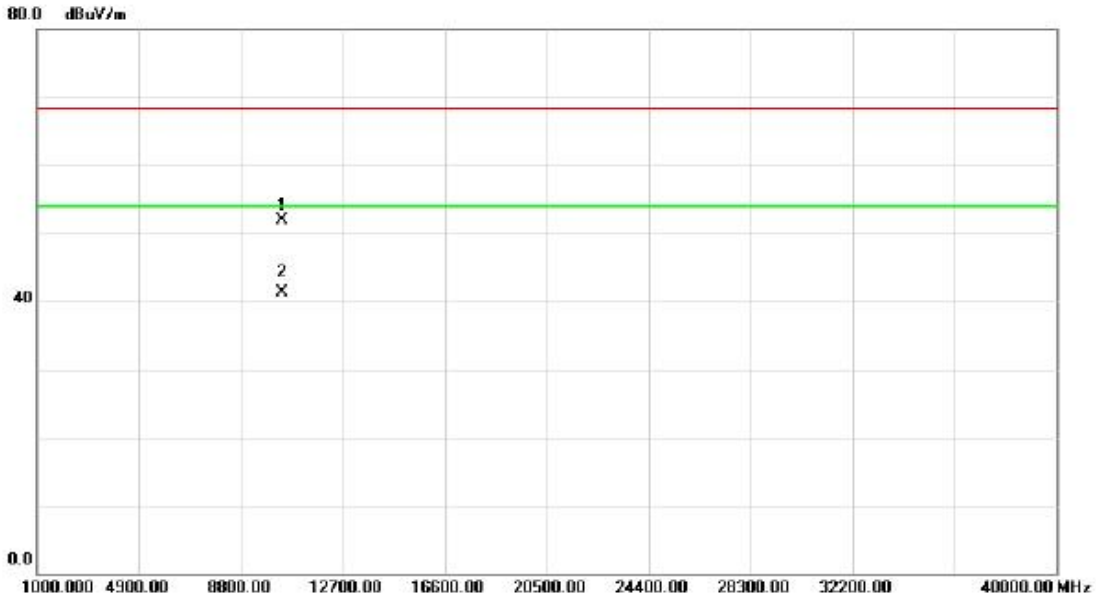
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	23.60	39.00	62.60	68.30	-5.70	peak	
2		5150.000	13.11	39.00	52.11	54.00	-1.89	AVG	
3	*	5172.200	56.31	39.07	95.38	54.00	41.38	AVG	no limit
4	X	5185.600	65.27	39.12	104.39	68.30	36.09	peak	no limit

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

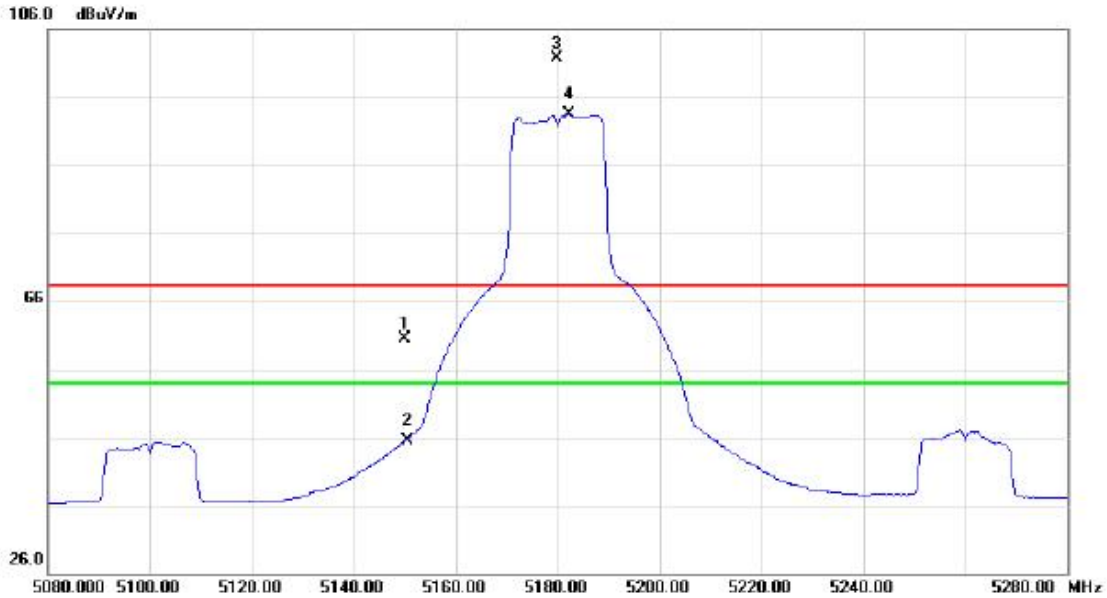
Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		10360.01	40.77	11.10	51.87	68.30	-16.43	peak	
2	*	10360.12	30.29	11.10	41.39	54.00	-12.61	AVG	

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

Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	21.44	39.00	60.44	68.30	-7.86	peak	
2		5150.000	6.54	39.00	45.54	54.00	-8.46	AVG	
3	X	5179.800	62.69	39.10	101.79	68.30	33.49	peak	no limit
4	*	5182.200	54.40	39.11	93.51	54.00	39.51	AVG	no limit