



# FCC Radio Test Report FCC ID: V7TMESH3F

This report concerns (check or	ne): ⊠Original Grant ⊡Class I Change ⊡Class II Change
Equipment : / Test Model :   Series Model :   Applicant : S Address : 6	1803C313 AC1200 Whole Home Mesh WiFi System Mesh3f MW3 SHENZHEN TENDA TECHNOLOGY CO.,LTD. 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052
Date of Test :   Issued Date : /	Mar. 29, 2018 Mar. 30, 2018 ~ Apr. 18, 2018 Apr. 25, 2018 BTL Inc.
Testing Engineer	: Welly zhou (Welly Zhou)
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For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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# **REPORT ISSUED HISTORY**

Issued No.	Description	Issued Date
BTL-FCCP-2-1803C313	Original Issue.	Apr. 25, 2018

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# 1. CERTIFICATION

Equipment : AC1200Whole Home Mesh WiFi System

Brand Name: Tenda Model Name: Mesh3f

Applicant : SHENZHEN TENDA TECHNOLOGY CO.,LTD6-8 Floor, Tower E3, No. 1001,

Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

Manufacturer: SHENZHEN TENDA TECHNOLOGY CO.,LTD

Address : 6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District,

Shenzhen, China. 518052

Date of Test : Mar. 30, 2018 ~ Apr. 18, 2018

Test Sample: Engineering Sample NO.: D180302743

Standard(s) : FCC Part15, Subpart E(15.407) / ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1803C313) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the RLAN 5GHz UNII-1 & UNII-3 part.

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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

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

# NOTE:

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

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#### 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 854385 BTL's designation number for FCC: CN5020

# 2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y).

The BTL measurement uncertainty as below table:

#### A. Conducted Measurement:

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

#### B. Radiated Measurement:

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

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

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# 3. GENERAL INFORMATION

# 3.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Whole Home Mesh WiFi System			
Brand Name	Tenda			
Model Name	Mesh3f	Mesh3f		
Series Model	MW3			
Mode Different	Only difffer in model number.	Only difffer in model number.		
	Operation Frequency	UNII-1: 5150-5250MHz UNII-3: 5725-5850MHz		
	Modulation Type	OFDM		
	Bit Rate of Transmitter	867 Mbps		
Product Description	Output Power (Max.)for UNII-1 Non Beamforming	802.11a: 27.55dBm 802.11n (20M): 27.71dBm 802.11n (40M): 27.69dBm 802.11ac (20M): 27.56dBm 802.11ac (40M): 27.70dBm 802.11ac (80M): 23.34dBm		
	Output Power (Max.)for UNII-3 Non Beamforming	802.11a: 27.27dBm 802.11n (20M): 27.40dBm 802.11n (40M): 27.57dBm 802.11ac (20M): 27.49dBm 802.11ac (40M): 27.67dBm 802.11ac (80M): 27.52dBm		
	Output Power (Max.)for UNII-1 With Beamforming	802.11n (20M): 27.55dBm 802.11n (40M): 27.43dBm 802.11ac (20M): 27.44dBm 802.11ac (40M): 27.60dBm 802.11ac (80M): 23.22dBm		
	Output Power (Max.)for UNII-3 With Beamforming	802.11n (20M): 27.22dBm 802.11n (40M): 27.53dBm 802.11ac (20M): 27.37dBm 802.11ac (40M): 27.55dBm 802.11ac (80M): 27.38dBm		
Power Source	DC Voltage supplied from AC/DC adapter. Model: BN052-A09009U			
Power Rating	I/P: 100-240V~ 50/60Hz 0.3A O/P: 9V===1.0A			

#### Note

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

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# 2. Channel List:

802.11a 802.11n 20MHz 802.11ac 20MHz		802.11n 40MHz 802.11ac 40MHz		802.11ad	c 80MHz
UNI	I-1	UNII-1		UN	II-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		802.11ad	c 80MHz
UNI	I-3	UNII-3		UN	II-3
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

# 3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Tenda	N/A	Internal	N/A	3
2	Tenda	N/A	Internal	N/A	3

#### Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed two trans mitters and two receivers (2T2R), all transmit signals are completely correlated, then, Direction  $gain = G_{ANT} + 10log(N)dBi = 3 + 10log(2)$ , that is Directional gain=6.01.

So, the out power limit is 30-6.01+6=29.99, the power density limit is 8-6.01+6=7.99.

# 4. The worst case for 1TX/ 2TX as follow:

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

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#### 3.2 DESCRIPTION OF TEST MODES

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

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

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

For Conducted Test		
Final Test Mode	Description	
Mode 13	TX Mode	

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

# Note:

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

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# 3.3 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

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

Non Beamforming

Non Beamorning			
	UNII-1		
Test Software Version	MP_TEST		
Frequency (MHz)	5180	5200	5240
A Mode	42	56	56
N20 Mode	46/44	48/46	48/46
AC20 Mode	45/44	49/44	49/44
Frequency (MHz)	5190	5230	
N40 Mode	36/34	48/46	
AC40 Mode	39/35	48/44	
Frequency (MHz)	5210		
AC80 Mode	36/33		

UNII-3			
Test Software Version		MP_TEST	
Frequency (MHz)	5745	5785	5825
A Mode	56	56	56
N20 Mode	48/45	48/45	48/43
AC20 Mode	47/44	47/44	47/44
Frequency (MHz)	5755	5795	
N40 Mode	48/46	48/46	
AC40 Mode	48/44	48/44	
Frequency (MHz)	5775		
AC80 Mode	48/44		

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With Beamforming

UNII-1			
Test Software Version	MP_TEST		
Frequency (MHz)	5180	5200	5240
N20 Mode	46/44	48/46	48/46
AC20 Mode	45/44	49/44	49/44
Frequency (MHz)	5190	5230	
N40 Mode	36/34	48/46	
AC40 Mode	39/35	48/44	
Frequency (MHz)	5210		
AC80 Mode	36/33		

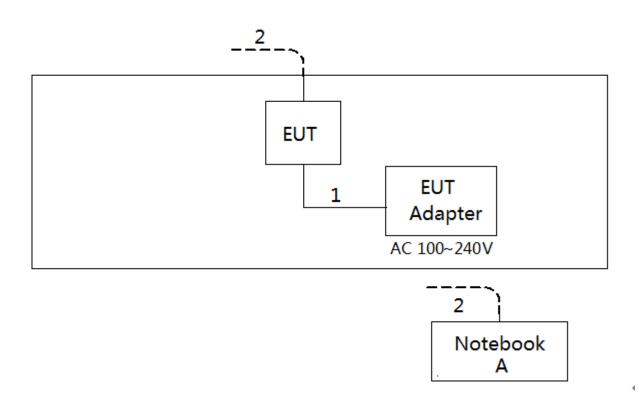
UNII-3			
Test Software Version	MP_TEST		
Frequency (MHz)	5745	5785	5825
N20 Mode	48/45	48/45	48/43
AC20 Mode	47/44	47/44	47/44
Frequency (MHz)	5755	5795	
N40 Mode	48/46	48/46	
AC40 Mode	48/44	48/44	
Frequency (MHz)	5775		
AC80 Mode	48/44		

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# 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.
Α	Notebook	Lenovo	INSPIRON 1420	DOC	JX193A01SDC2

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	DC Cable
2	NO	NO	10m	RJ45 Cable

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# 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)	
PREQUENCY (MIDZ)	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

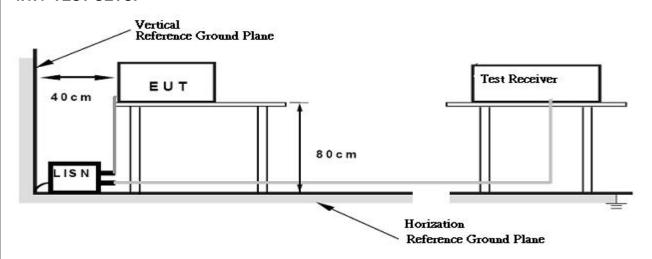
No deviation.

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#### 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: 53% Test Voltage: AC 120V/60Hz

#### 4.1.7 TEST RESULTS

Please refer to the Appendix 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.

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#### 4.2 RADIATED EMISSION MEASUREMENT

#### 4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(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

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBµV/m)
5150-5250	-27	68.3
5250-5350	-27	68.3
5470-5725	-27	68.3
	-27(Note 2)	68.3
E70E E0E0	10(Note 2)	105.3
5725-5850	15.6(Note 2)	110.9
	27(Note 2)	122.3

#### Note

1. 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)

2. According to FCC 16-24,All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below theband edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above orbelow the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

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#### **4.2.2 TEST PROCEDURE**

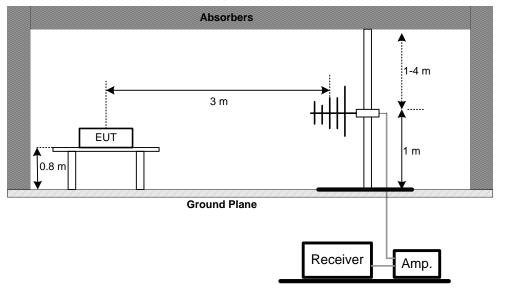
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.2.3 DEVIATION FROM TEST STANDARD

No deviation

#### 4.2.4 TEST SETUP

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

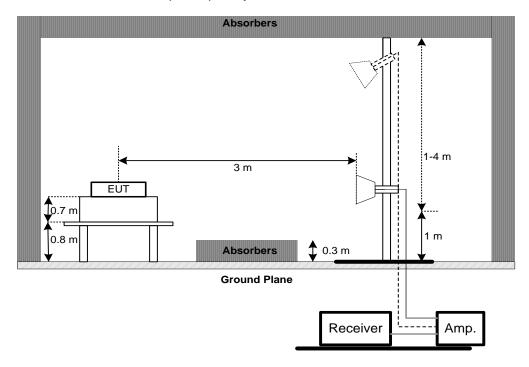


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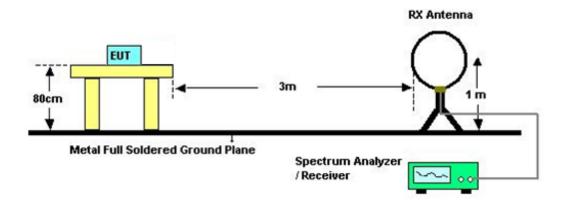




# (B) Radiated Emission Test Set-Up Frequency Above 1 GHz



# (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: 60% Test Voltage: AC 120V/60Hz

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# 4.2.7 TEST RESULTS (9K TO 30MHz)

Please refer to the Appendix B

#### Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (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 Appendix C.

# 4.2.9 TEST RESULTS (ABOVE 1000 MHz)

Please refer to the Appendix D.

#### Remark:

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

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# 5. 26dB SPECTRUM BANDWIDTH

# 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E					
Test Item Limit Frequency Range (MHz)					
	26 dB Bandwidth	5150-5250	PASS		
Bandwidth	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,

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 26dB Bandwidth
RBW	300 kHz(Bandwidth 20MHz)
RBW	1MHz(Bandwidth 40MHz and 80MHz)
VDW	1MHz(Bandwidth 20MHz)
VBW	3MHz(Bandwidth 40MHz and 80MHz)
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.

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# **5.1.5 EUT TEST CONDITIONS** Temperature: 25°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz 5.1.6 TEST RESULTS Please refer to the Appendix E.

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# **6. MAXIMUM CONDUCTED OUTPUT POWER**

# **6.1 APPLIED PROCEDURES / LIMIT**

FCC Part15, Subpart E					
Test Item	Limit	Frequency Range (MHz)	Result		
Conducted Output Power	Fixed:1 Watt (30dBm)  Mobile and portable:  250mW (24dBm)	5150-5250	PASS		
	1 Watt (30dBm)	5725-5850	PASS		

Note: The maximum e.i.r.p at anyelevation angle above 30 degrees as measured from the horizon must not exceed 125mW(21dBm)

# **6.1.1 TEST PROCEDURE**

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Used spectrum analyzer band power measurement function.

c.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1MHz.
VBW	≥ 3MHz.
Sweep points	≥2 x span / RBW
Detector	RMS
Trace	Trace average at least 100 traces in power averaging(rms) mode.
Sweep Time	auto

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

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# **6.1.2 DEVIATION FROM STANDARD**

No deviation.

# 6.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

# **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: 60% Test Voltage: AC 120V/60Hz

# 6.1.6 TEST RESULTS

Please refer to the Appendix F.

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# 7. POWER SPECTRAL DENSITY TEST

# 7.1 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,

	no stock diagram solon,				
b.	Spectrum Parameter	Setting			
	Attenuation	Auto			
	Span Fraguenay	Encompass the entire emissions bandwidth (EBW) of the			
	Span Frequency	signal			
	RBW	= 1MHz.			
	VBW	≥ 3MHz.			
	Detector	RMS			
Trace average		100 trace			
	Sweep Time	Auto			

#### Note:

- 1. For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v01r02, 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.

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# 7.1.1 DEVIATION FROM STANDARD

No deviation.

# 7.1.2 TEST SETUP

EUT	•	SPECTRUM
		ANALYZER

# 7.1.3 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.

# 7.1.4 EUT TEST CONDITIONS

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

# 7.1.5 TEST RESULTS

Please refer to the Appendix H.

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# **8. FREQUENCY STABILITY MEASUREMENT**

# 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart E					
Test Item Limit Frequency Range (MHz) Result					
For any or Otal Illin	Specified in the	5150-5250	PASS		
Frequency Stability	user's manual	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,

	and blook 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.

# **8.1.2 DEVIATION FROM STANDARD**

No deviation.

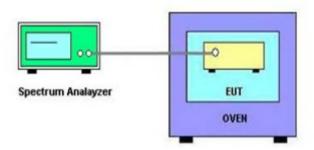
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d. User manual temperature is -5°C~50°C.





# 8.1.3 TEST SETUP



# **8.1.4 EUT OPERATION CONDITIONS**

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

# **8.1.5 EUT TEST CONDITIONS**

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

# 8.1.6 TEST RESULTS

Please refer to the Appendix I.

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# 9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Serial No.	Calibrated until				
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 11, 2019		
2	LISN	EMCO	3816/2	52765	Mar. 11, 2019		
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019		
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 11, 2019		
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
6	Cable	N/A	RG223	12m	Oct. 19, 2018		

	Radiated Emission Measurement - Below 1GHz						
Item	Item Kind of Equipment Manufacturer Type No. Serial No.						
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019		
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018		
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018		
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018		
5	Controller	CT	SC100	N/A	N/A		
6	Controller	MF	MF-7802	MF780208416	N/A		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
8	Antenna	EM	EM-6876-1	230	Feb. 07, 2019		

	Radiated Emission Measurement - Above 1GHz				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018
6	Controller	СТ	SC100	N/A	N/A
7	Controller	MF	MF-7802	MF780208416	N/A
8	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A

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

	Max	kimum Conducted O	utput Power N	<b>l</b> leasurement	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

		Power Spectral De	ensity Measur	rement	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

	Frequency Stability Measurement				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018
2	Precision Oven Tester	Bell	BTH-50C	20170306001	Mar. 11, 2019

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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# **10. EUT TEST PHOTOS**







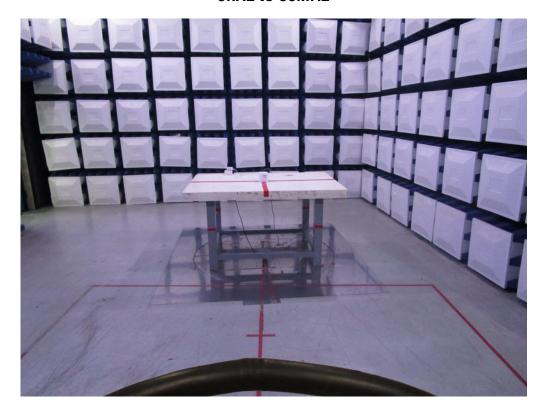
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# **Radiated Measurement Photos**

# 9kHz to 30MHz





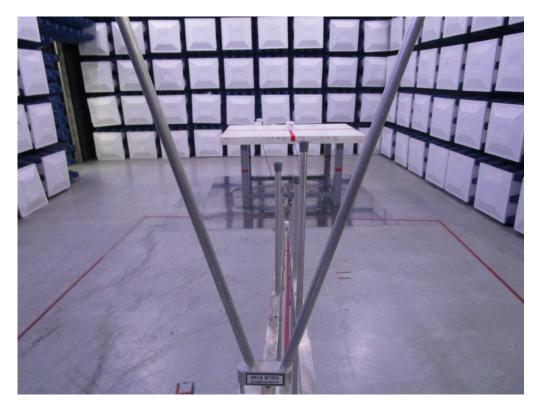
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# **Radiated Measurement Photos**

# 30MHz to 1000MHz





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# **Radiated Measurement Photos**

# Above 1000MHz





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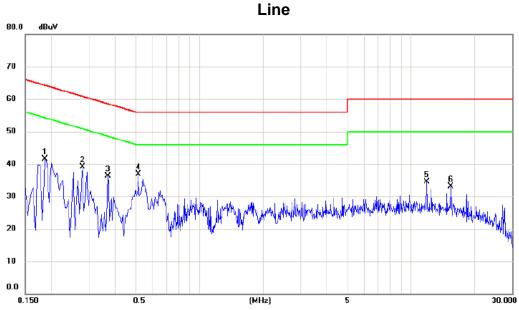


APPENDIX A - CONDUCTED EMISSION

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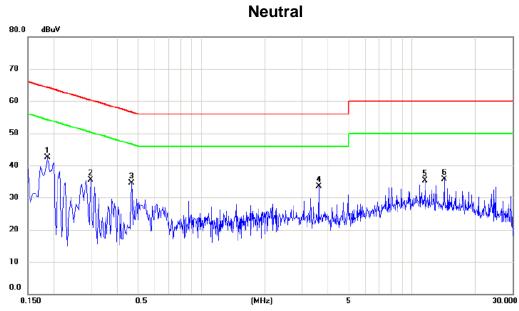


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1860	31.72	9.77	41.49	64.21	-22.72	peak	
2	0.2805	29.29	9.73	39.02	60.80	-21.78	peak	
3	0.3704	26.52	9.75	36.27	58.49	-22.22	peak	
4 *	0.5144	27.12	9.73	36.85	56.00	-19.15	peak	
5	11.8230	24.12	10.42	34.54	60.00	-25.46	peak	
6	15.3690	22.58	10.62	33.20	60.00	-26.80	peak	

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin	l	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1860	32.90	9.69	42.59	64.21	-21.62	peak	
2		0.2985	25.88	9.65	35.53	60.28	-24.75	peak	
3		0.4650	24.87	9.63	34.50	56.60	-22.10	peak	
4		3.6195	23.66	9.93	33.59	56.00	-22.41	peak	
5		11.5034	24.93	10.39	35.32	60.00	-24.68	peak	
6		14.2035	25.08	10.58	35.66	60.00	-24.34	peak	

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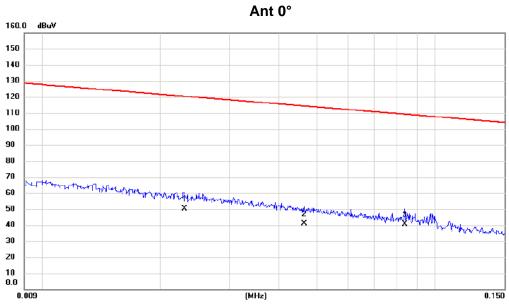


APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

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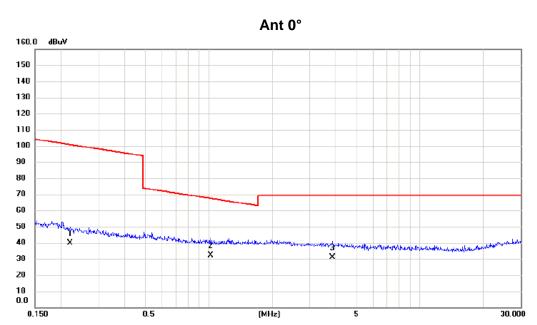


No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.0230	30.80	19.53	50.33	120.37	-70.04	AVG	
2	0.0465	22.30	18.82	41.12	114.26	-73.14	AVG	
3 *	0.0838	22.60	18.02	40.62	109.14	-68.52	AVG	

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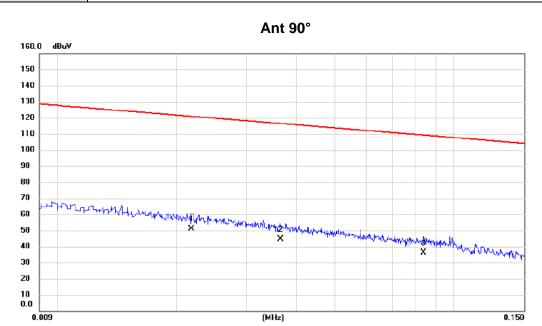


No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.2197	23.10	16.74	39.84	100.77	-60.93	AVG	
2 *	1.0211	16.40	15.88	32.28	67.42	-35.14	QP	
3	3.8603	15.90	14.99	30.89	69.54	-38.65	QP	

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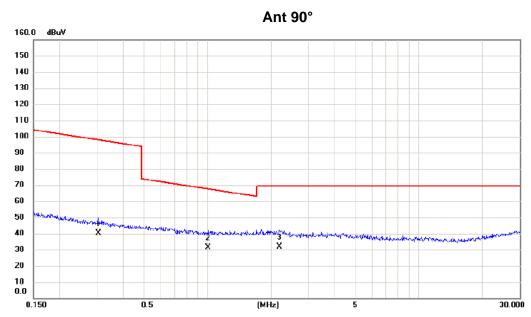


No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.0218	31.30	19.57	50.87	120.84	-69.97	AVG	
2	0.0365	25.60	19.13	44.73	116.36	-71.63	AVG	
3	0.0838	18.30	18.02	36.32	109.14	-72.82	AVG	

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No. MI	k. Freq.			Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.3051	23.50	16.62	40.12	97.92	-57.80	AVG	
2 *	1.0050	15.70	15.89	31.59	67.56	-35.97	QP	
3	2.1898	16.30	15.45	31.75	69.54	-37.79	QP	

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

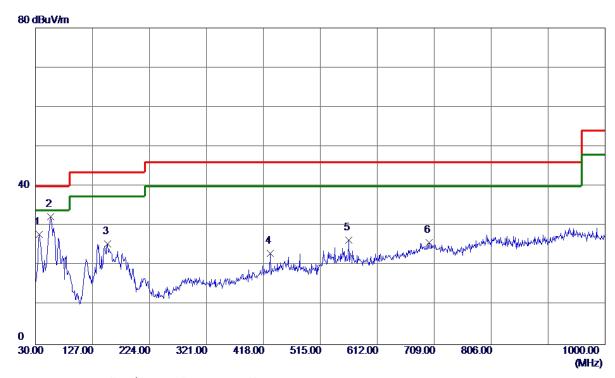
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Test Mode: UNII-1/TX A Mode 5180MHz

### Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	36.7900	43.07	-15. 24	27.83	40.00	-12. 17	Peak	
2 *	56. 1900	47.90	-15. 55	32. 35	40.00	-7.65	Peak	
3	153. 1900	37. 28	-11. 90	25. 38	43.50	-18. 12	Peak	
4	429.6400	31. 95	-8. 92	23. 03	46.00	-22.97	Peak	
5	563. 5000	32. 83	-6. 38	26. 45	46.00	-19. 55	Peak	
6	700. 2700	29. 18	-3.41	25. 77	46.00	-20. 23	Peak	

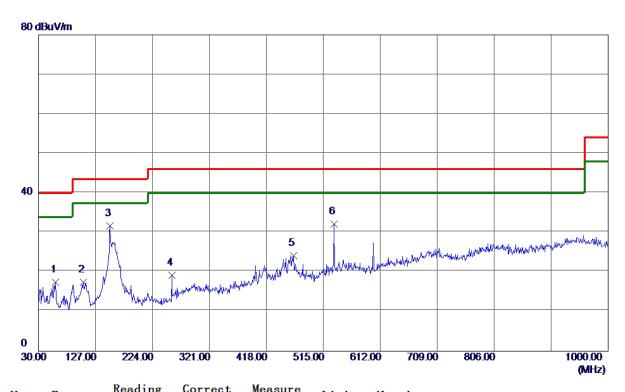
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Test Mode: UNII-1/TX A Mode 5180MHz

#### Horizontal



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	59. 1000	33. 45	-16. 05	17.40	40.00	-22.60	Peak	
2	106.6300	34.98	-17. 58	17.40	43.50	-26. 10	Peak	
3 *	152. 2200	43.62	-11. 98	31.64	43.50	-11.86	Peak	
4	256. 9800	33. 69	-14.48	19. 21	46.00	-26. 79	Peak	
5	464. 5600	32.60	-8.44	24. 16	46.00	-21.84	Peak	
6	533. 4300	39. 40	-7. 17	32. 23	46.00	-13.77	Peak	

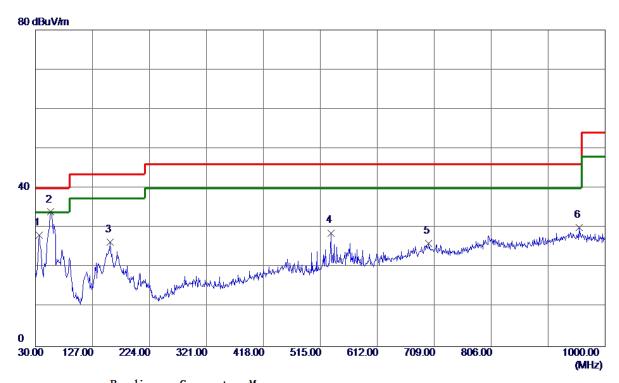
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Test Mode: UNII-1/TX A Mode 5200MHz

# Vertical



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	36.7900	43. 43	-15. 24	28. 19	40.00	-11.81	Peak	
2 *	56. 1900	49. 55	-15. 55	34.00	40.00	-6.00	Peak	
3	157.0700	38. 00	-11. 55	26. 45	43.50	-17.05	Peak	
4	533. 4300	35. 89	-7. 17	28. 72	46.00	-17. 28	Peak	
5	699. 3000	29. 51	-3.44	26. 07	46.00	-19. 93	Peak	
6	955. 3800	29. 24	0.80	30. 04	46.00	-15. 96	Peak	

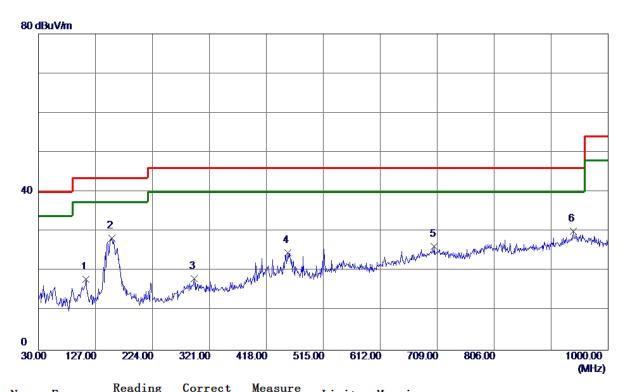
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Test Mode: UNII-1/TX A Mode 5200MHz

#### Horizontal



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	110. 5100	34.79	-16. 83	17. 96	43.50	-25. 54	Peak	
2 *	155. 1300	40.11	-11.73	28. 38	43.50	-15. 12	Peak	
3	294.8100	29. 47	-11.42	18. 05	46.00	-27.95	Peak	
4	454.8600	32.82	-8. 22	24. 60	46.00	-21.40	Peak	
5	704. 1500	29.72	-3.51	26. 21	46.00	-19.79	Peak	
6	940.8300	29. 58	0. 55	30. 13	46.00	-15.87	Peak	

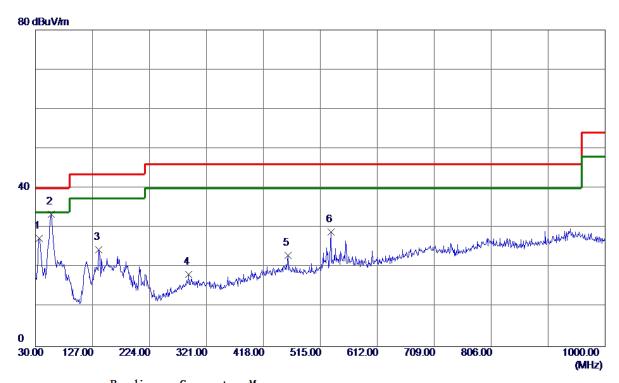
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Test Mode: UNII-1/TX A Mode 5240MHz

# Vertical



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	36. 7900	42.65	-15. 24	27.41	40.00	-12. 59	Peak	
2 *	57. 1600	49. 13	-15. 73	33. 40	40.00	-6. 60	Peak	
3	137.6700	37. 53	-13.06	24.47	43.50	-19. 03	Peak	
4	290. 9300	29. 93	-11.65	18. 28	46.00	-27.72	Peak	
5	459.7100	31. 37	-8. 33	23. 04	46.00	-22. 96	Peak	
6	533. 4300	36. 13	-7. 17	28. 96	46.00	-17.04	Peak	

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

#### Horizontal



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	68.8000	35. 35	-17.70	17.65	40.00	-22. 35	Peak	
2 *	159. 9800	39. 22	-11. 30	27. 92	43.50	-15. 58	Peak	
3	399. 5700	36. 14	-10. 11	26. 03	46.00	-19.97	Peak	
4	457.7700	34.85	-8. 28	26. 57	46.00	-19.43	Peak	
5	532. 4600	35. 38	-7. 23	28. 15	46.00	-17.85	Peak	
6	706. 0900	29. 58	-3. 56	26. 02	46.00	-19. 98	Peak	

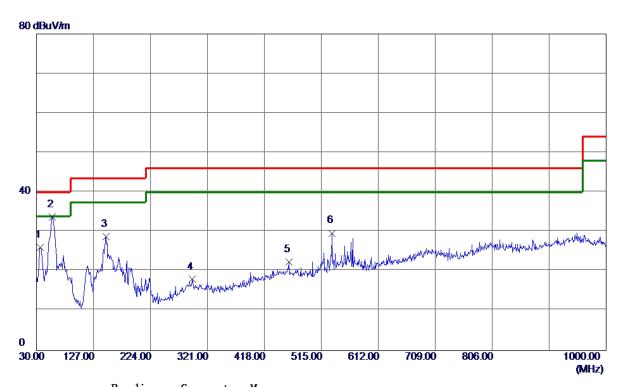
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Test Mode: UNII-3/TX A Mode 5745MHz

# Vertical



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	36. 7900	41.36	-15. 24	26. 12	40.00	-13.88	Peak	
2 *	57. 1600	49. 43	-15. 73	33. 70	40.00	-6. 30	Peak	
3	148. 3400	41.07	-12. 28	28. 79	43.50	-14.71	Peak	
4	294.8100	29. 42	-11.42	18.00	46.00	-28.00	Peak	
5	459.7100	30.66	-8. 33	22. 33	46.00	-23.67	Peak	
6	533. 4300	36. 85	-7. 17	29. 68	46.00	-16. 32	Peak	

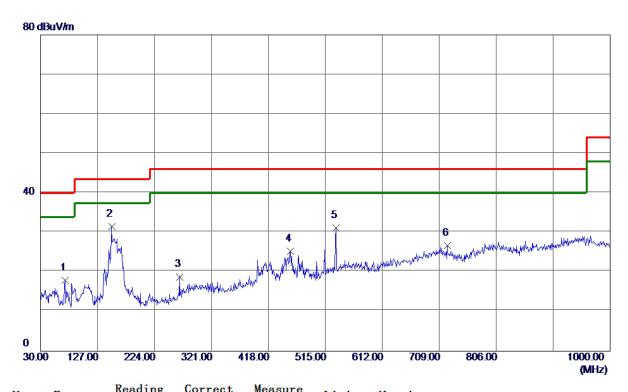
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Test Mode: UNII-3/TX A Mode 5745MHz

#### Horizontal



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	71.7100	36. 24	-18. 27	17. 97	40.00	-22.03	Peak	
2 *	151. 2500	43. 58	-12. 07	31. 51	43.50	-11. 99	Peak	
3	266. 6800	32. 39	-13. 59	18. 80	46.00	-27. 20	Peak	
4	455.8300	33. 46	-8. 24	25. 22	46.00	-20.78	Peak	
5	533. 4300	38. 40	-7. 17	31. 23	46.00	-14.77	Peak	
6	722. 5800	30.66	-3. 97	26. 69	46.00	-19. 31	Peak	

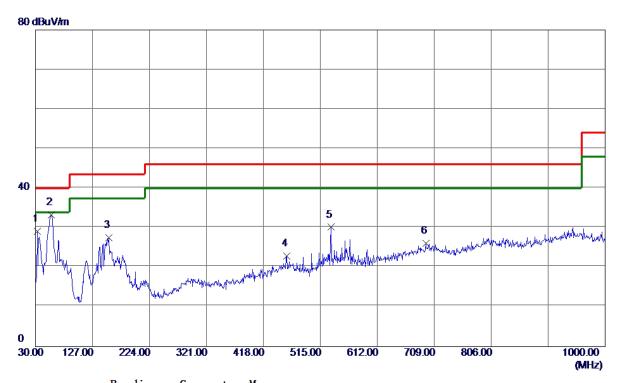
Report No.: BTL-FCCP-2-1803C313 Page 52 of 339





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

# Vertical



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	32.9100	44. 38	-15. 30	29.08	40.00	-10.92	Peak	
2 *	57. 1600	49.08	-15. 73	33. 35	40.00	-6. 65	Peak	
3	155. 1300	39. 22	-11.73	27.49	43.50	-16.01	Peak	
4	457.7700	31. 17	-8. 28	22.89	46.00	-23. 11	Peak	
5	533. 4300	37. 33	-7. 17	30. 16	46.00	-15.84	Peak	
6	694. 4500	29. 73	-3. 68	26. 05	46.00	-19. 95	Peak	

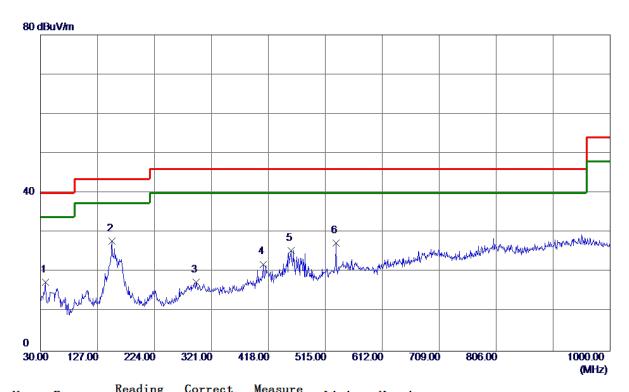
Report No.: BTL-FCCP-2-1803C313 Page 53 of 339





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

#### Horizontal



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	38.7300	32.46	-15. 04	17.42	40.00	-22. 58	Peak	
2 *	152. 2200	39. 86	-11. 98	27. 88	43.50	-15.62	Peak	
3	294.8100	28.83	-11.42	17.41	46.00	-28.59	Peak	
4	409. 2700	31.73	-9. 73	22. 00	46.00	-24.00	Peak	
5	456.8000	33. 68	-8. 26	25. 42	46.00	<b>-20.</b> 58	Peak	
6	533. 4300	34.46	-7. 17	27. 29	46.00	-18.71	Peak	

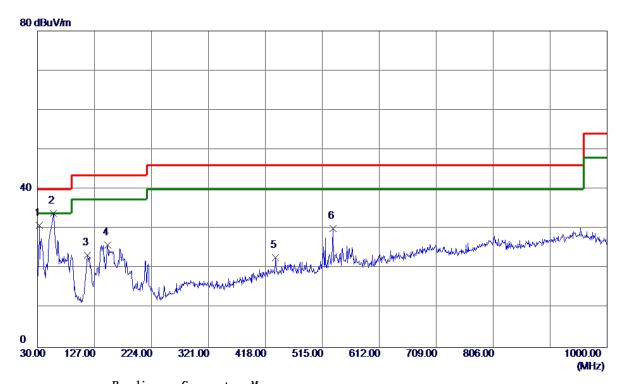
Report No.: BTL-FCCP-2-1803C313 Page 54 of 339





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

# Vertical



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	32.9100	46. 23	-15. 30	30. 93	40.00	-9. 07	Peak	
2 *	57. 1600	49.60	-15. 73	33. 87	40.00	-6. 13	Peak	
3	115. 3600	39. 42	-16.06	23. 36	43.50	-20. 14	Peak	
4	149. 3100	38. 18	-12. 22	25. 96	43.50	-17.54	Peak	
5	435. 4600	31.42	-8. 69	22.73	46.00	-23. 27	Peak	
6	533. 4300	37. 19	-7. 17	30. 02	46.00	-15. 98	Peak	

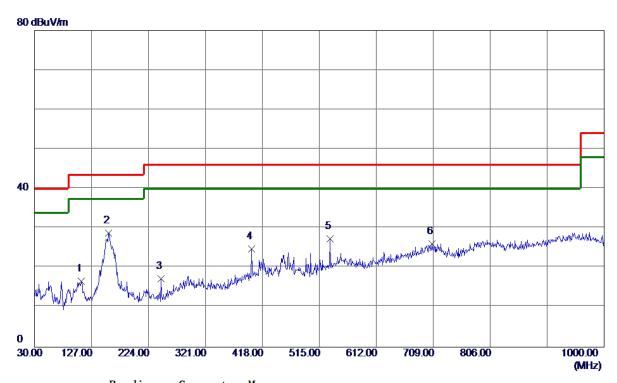
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Test Mode: UNII-3/TX A Mode 5825MHz

### Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	109. 5400	33. 67	-17.00	16. 67	43.50	-26.83	Peak	
2 *	156. 1000	40.46	-11.64	28. 82	43.50	-14.68	Peak	
3	245. 3400	32. 45	-15. 21	17. 24	46.00	-28.76	Peak	
4	399. 5700	34.86	-10. 11	24.75	46.00	-21. 25	Peak	
5	533. 4300	34.48	-7. 17	27. 31	46.00	-18.69	Peak	
6	707.0600	29. 69	-3. 58	26. 11	46.00	-19.89	Peak	

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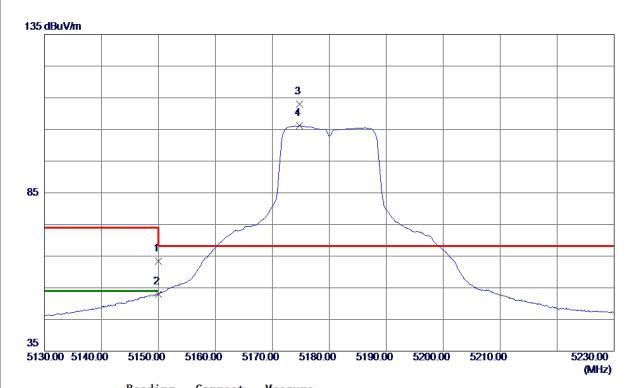
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

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### **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	45. 14	18. 19	63. 33	74.00	-10.67	Peak	
2	5150.0000	34. 90	18. 19	53. 09	54.00	-0.91	AVG	
3 *	5174.8000	94.68	18. 34	113.02	68.30	44.72	Peak	No Limit
4	5174.8000	87.84	18. 34	106. 18	999.00	-892.82	AVG	No Limit

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### **Vertical**



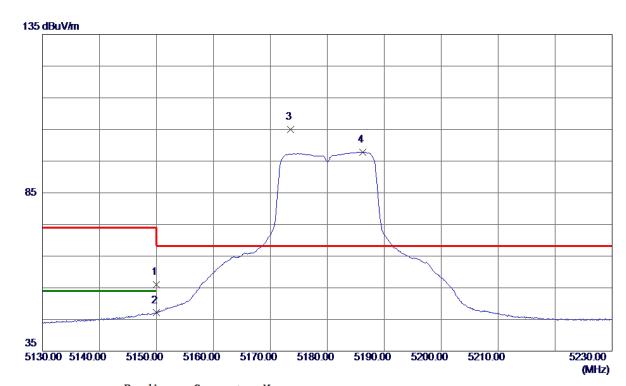
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15533. 0800	32. 78	18. 19	50. 97	74.00	-23.03	Peak	
2 *	15542. 2800	23. 63	18. 18	41.81	54.00	-12. 19	AVG	

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### Horizontal



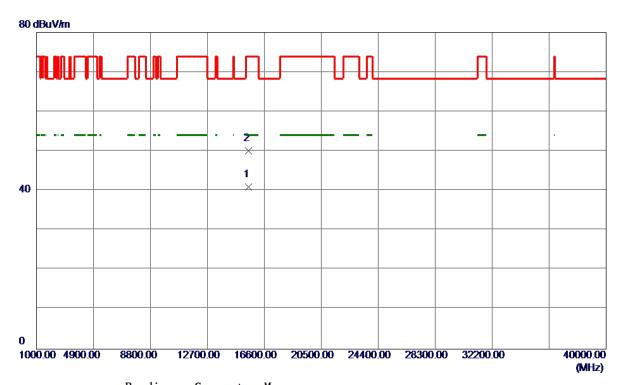
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	37.84	18. 19	56. 03	74.00	-17.97	Peak	
2	5150.0000	28. 91	18. 19	47. 10	54.00	-6. 90	AVG	
3 *	5173.6000	86. 60	18. 34	104.94	68.30	36. 64	Peak	No Limit
4	5186. 2000	79. 46	18. 41	97.87	999.00	-901. 13	AVG	No Limit

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### Horizontal



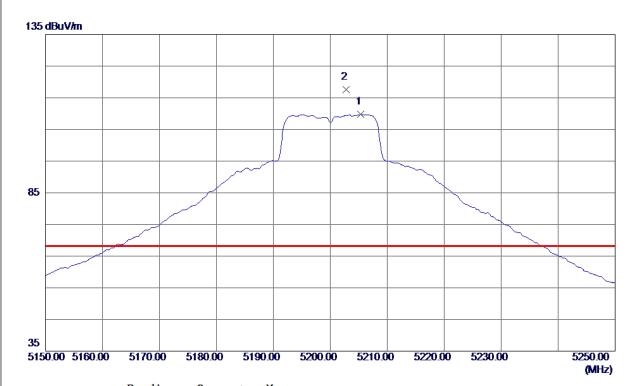
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15530. 7000	22.74	18. 19	40. 93	54.00	-13.07	AVG	
2	15535. 5200	31. 97	18. 19	50. 16	74.00	-23.84	Peak	

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# Vertical



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5205. 3000	91. 99	17.72	109.71	999.00	-889. 29	AVG	No Limit
2 *	5202.8000	99. 97	17. 70	117.67	68.30	49. 37	Peak	No Limit

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### **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15597.4600	39. 63	18. 17	57.80	74.00	-16. 20	Peak	
2 *	15599. 3800	29. 23	18. 17	47.40	54.00	-6. 60	AVG	

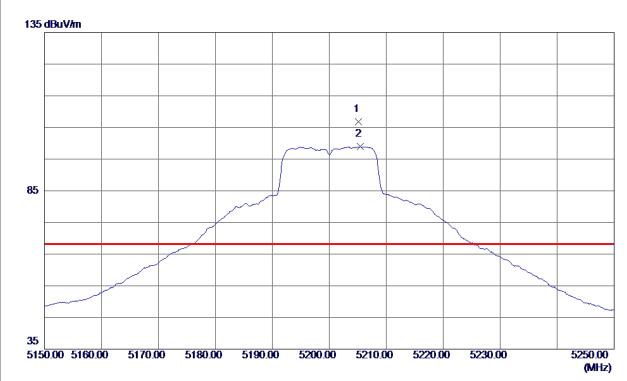
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5200MHz

### Horizontal



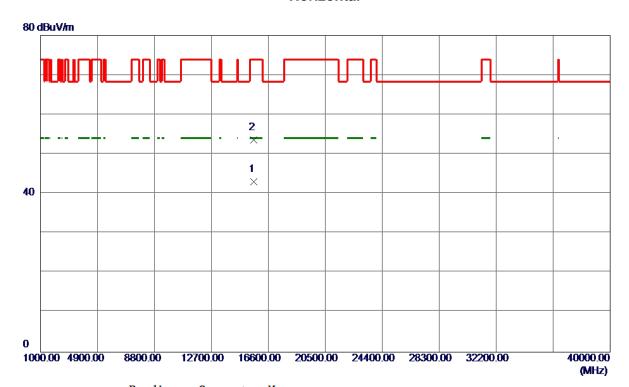
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5205. 1000	89. 92	16.80	106.72	68. 30	38. 42	Peak	No Limit
2	5205. 4000	82. 11	16. 80	98. 91	999.00	-900. 09	AVG	No Limit

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### Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15602.6000	24.89	18. 17	43.06	54.00	-10.94	AVG	
2	15605. 9400	35. 45	18. 17	53. 62	74.00	-20. 38	Peak	

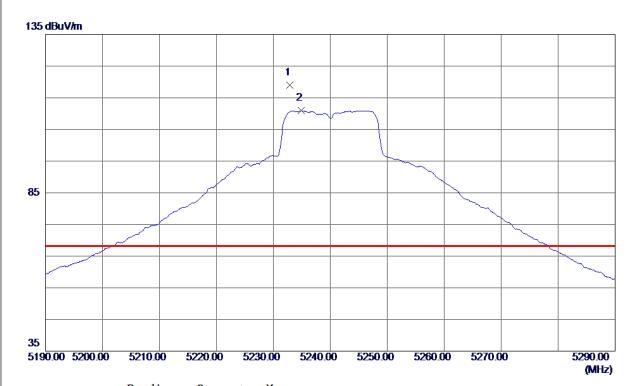
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

### Vertical



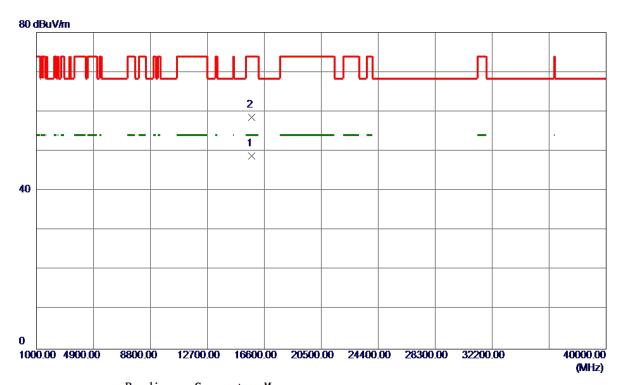
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5232.9000	101.09	17.89	118.98	68.30	50.68	Peak	No Limit
2	5234. 9000	93.00	17. 90	110. 90	999.00	-888. 10	AVG	No Limit

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### **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15723. 2800	30. 63	18. 14	48.77	54.00	-5. 23	AVG	
2	15725. 2600	40. 39	18. 14	58. 53	74.00	-15. 47	Peak	

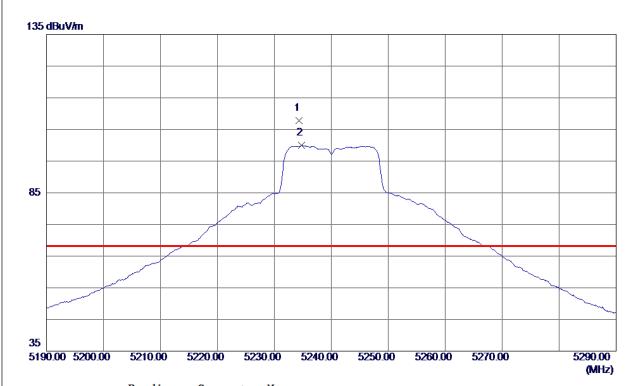
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX A Mode 5240MHz

### Horizontal



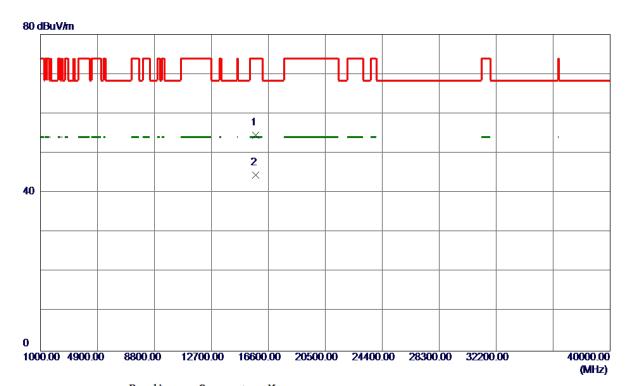
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5234.3000	90.83	16.89	107.72	68.30	39.42	Peak	No Limit
2	5234.8000	83. 05	16. 89	99. 94	999.00	-899. 06	AVG	No Limit

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### Horizontal



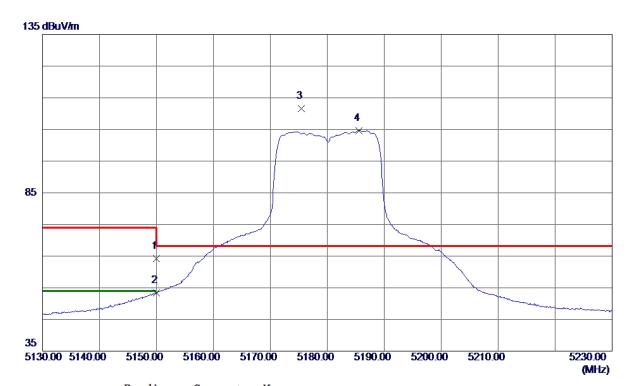
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15719. 3000	36. 44	18. 14	54. 58	74.00	-19.42	Peak	
2 *	15723. 9800	26. 28	18. 14	44. 42	54.00	<b>-9.</b> 58	AVG	

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### **Vertical**



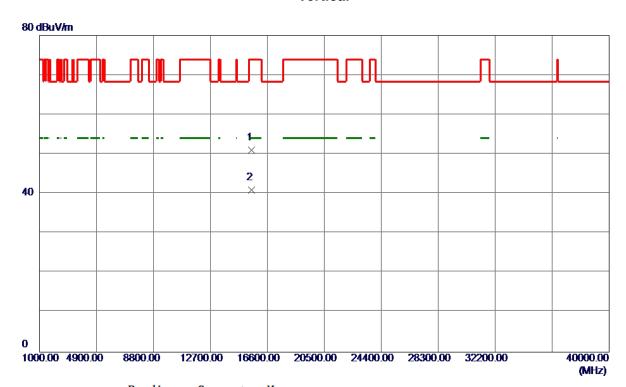
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	46.77	17. 38	64. 15	74.00	-9.85	Peak	
2	5150.0000	35. 95	17. 38	53. 33	54.00	-0.67	AVG	
3 *	5175. 4000	94. 13	17. 54	111.67	68.30	43. 37	Peak	No Limit
4	5185. 6000	87. 04	17. 60	104.64	999. 00	-894. 36	AVG	No Limit

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### **Vertical**



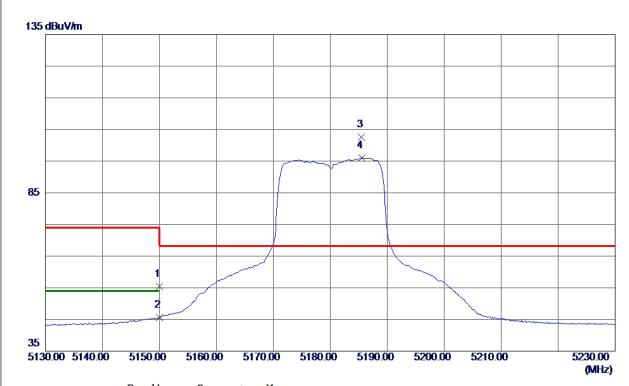
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15528. 2100	32. 79	18. 19	<b>50.</b> 98	74.00	-23.02	Peak	
2 *	15536. 3400	22.81	18. 19	41.00	54.00	-13.00	AVG	

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### Horizontal



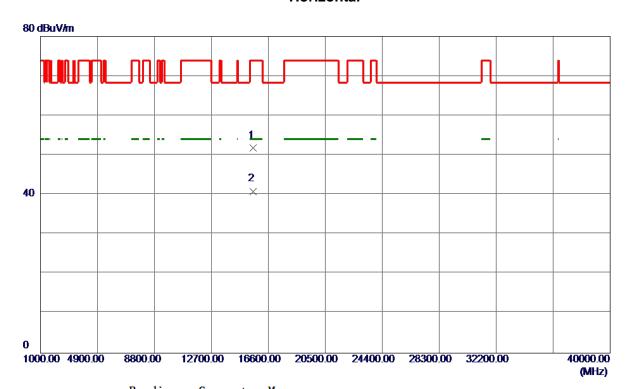
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	38. 82	16. 65	55. 47	74.00	-18. 53	Peak	
2	5150.0000	28. 93	16. 65	45. 58	54.00	-8.42	AVG	
3 *	5185. 5000	85. 91	16. 75	102.66	68. 30	34. 36	Peak	No Limit
4	5185. 6000	79. 28	16. 75	96. 03	999. 00	-902. 97	AVG	No Limit

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## Horizontal



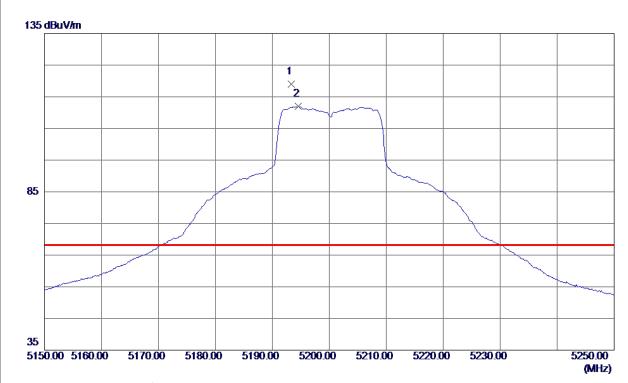
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15544.6500	33. 59	18. 18	51.77	74.00	-22. 23	Peak	
2 *	15553.8000	22. 70	18. 18	40.88	54.00	-13. 12	AVG	

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### **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5193. 3000	101.41	17.65	119.06	68.30	50.76	Peak	No Limit
2	5194.6000	94. 29	17.65	111. 94	999. 00	-887.06	AVG	No Limit

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### **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15598. 9800	36. 21	18. 17	54. 38	74.00	-19.62	Peak	
2 *	15605. 4900	25. 20	18. 17	43. 37	54.00	-10.63	AVG	

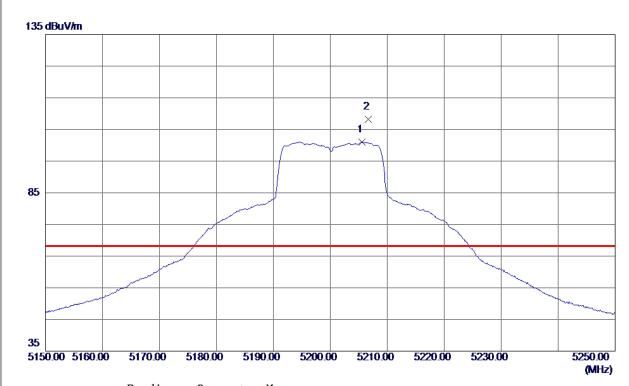
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5200MHz

### Horizontal



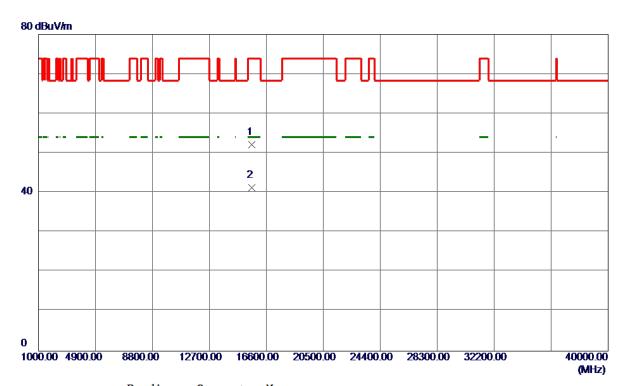
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5205.6000	84. 24	16.80	101.04	999.00	-897.96	AVG	No Limit
2 *	5206. 7000	91.48	16. 81	108. 29	68. 30	39. 99	Peak	No Limit

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### Horizontal



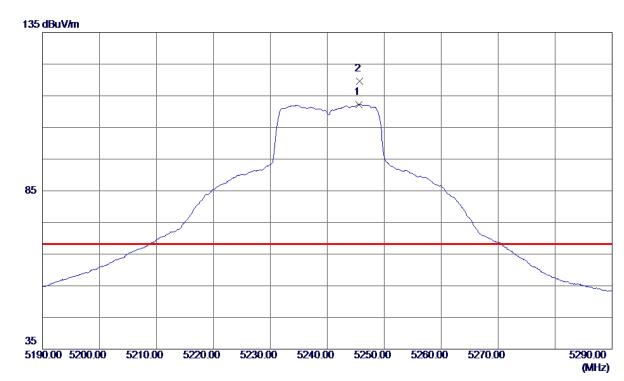
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15598. 5000	34.04	18. 17	52. 21	74.00	-21. 79	Peak	
2 *	15601. 0200	23. 06	18. 17	41. 23	54.00	-12. 77	AVG	

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### **Vertical**



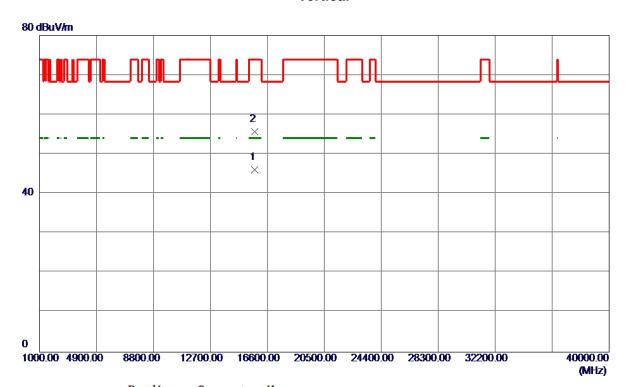
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5245.6000	94.31	17.97	112. 28	999.00	-886.72	AVG	No Limit
2 *	5245. 7000	101.69	17. 97	119.66	68. 30	51. 36	Peak	No Limit

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### **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15724. 5600	27. 99	18. 14	46. 13	54.00	-7.87	AVG	
2	15732. 6000	37. 52	18. 14	55. 66	74.00	-18. 34	Peak	

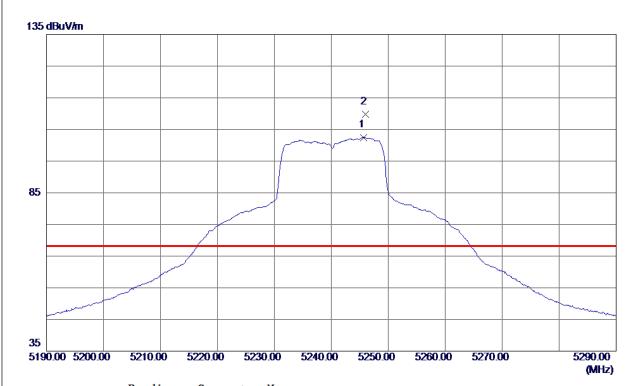
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N20 Mode 5240MHz

### Horizontal



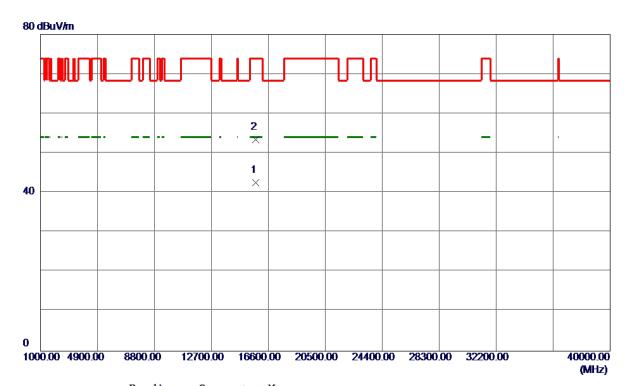
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5245. 7000	85. 58	16. 92	102. 50	999.00	-896. 50	AVG	No Limit
2 *	5246. 0000	92.85	16. 92	109.77	68. 30	41.47	Peak	No Limit

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### Horizontal



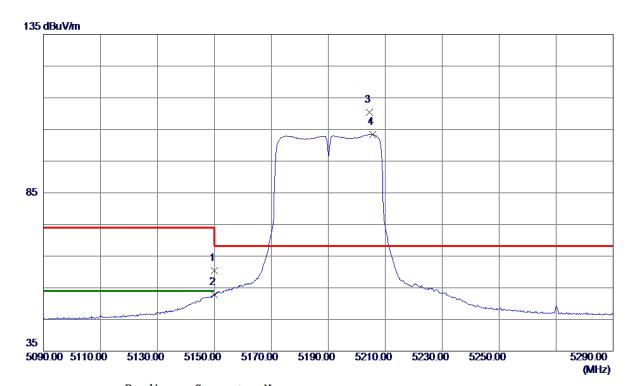
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15719. 2200	24.41	18. 14	42. 55	54.00	-11. 45	AVG	
2	15731.8500	35. 25	18. 14	53. 39	74.00	-20. 61	Peak	

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### **Vertical**



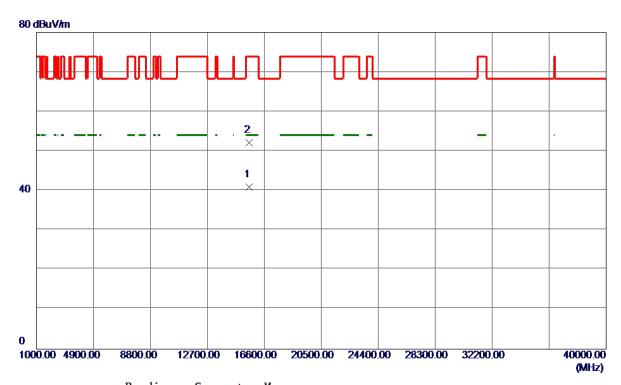
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	43.07	17. 38	60.45	74.00	-13.55	Peak	
2	5150.0000	35. 40	17. 38	52. 78	54.00	-1. 22	AVG	
3 *	5204.4000	92. 73	17.71	110.44	68.30	42. 14	Peak	No Limit
4	5205. 6000	85. 70	17.72	103. 42	999. 00	-895. 58	AVG	No Limit

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### **Vertical**



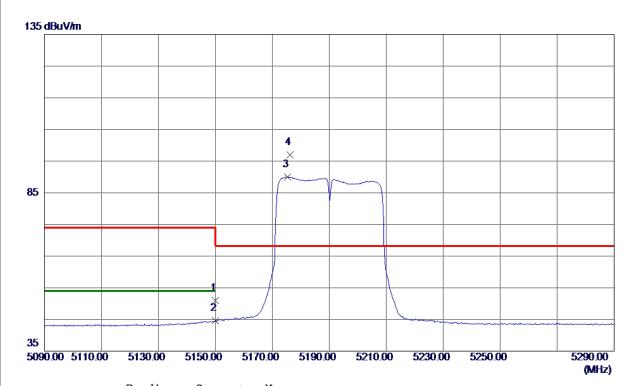
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15568. 0800	22.77	18. 18	40. 95	54.00	-13.05	AVG	
2	15570. 9800	34. 05	18. 18	52. 23	74.00	-21.77	Peak	

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### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	34.43	16.65	51.08	74.00	-22.92	Peak	
2	5150.0000	27.88	16.65	44.53	54.00	-9.47	AVG	
3	5175. 4000	73. 30	16. 72	90.02	999.00	-908. 98	AVG	No Limit
4 *	5176. 2000	80. 31	16. 72	97. 03	68. 30	28.73	Peak	No Limit

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### Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15568. 1600	21.88	18. 18	40.06	54.00	-13.94	AVG	
2	15570. 9700	32. 97	18. 18	51. 15	74.00	-22.85	Peak	

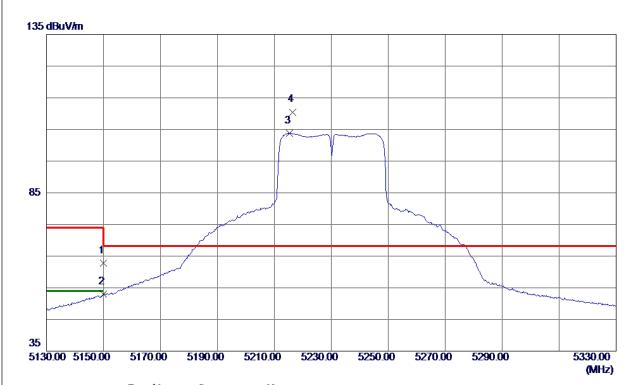
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX N40 Mode 5230MHz

### Vertical



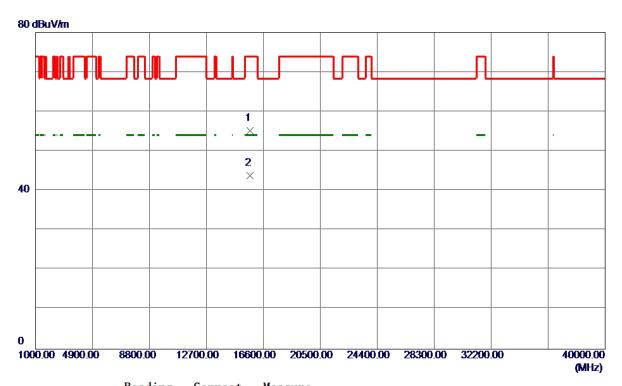
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	45.44	17. 38	62.82	74.00	-11. 18	Peak	
2	5150.0000	35. 55	17. 38	52. 93	54.00	-1.07	AVG	
3	5215. 4000	86. 09	17. 78	103.87	999.00	-895. 13	AVG	No Limit
4 *	5216. 4000	92.71	17. 79	110. 50	68. 30	42. 20	Peak	No Limit

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### **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15690. 3750	36. 98	18. 15	55. 13	74.00	-18.87	Peak	
2 *	15690. 5050	25. 73	18. 15	43.88	54.00	-10. 12	AVG	

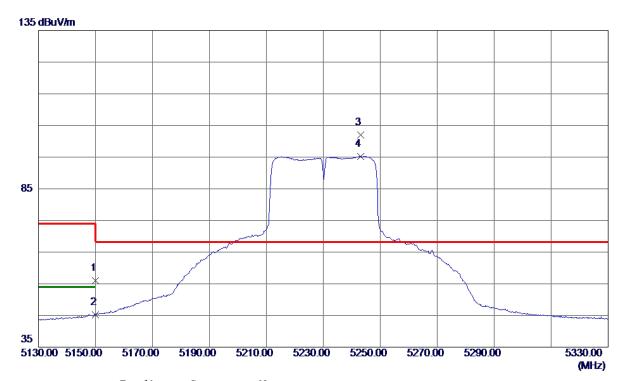
Report No.: BTL-FCCP-2-1803C313 Page 87 of 339





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

### Horizontal



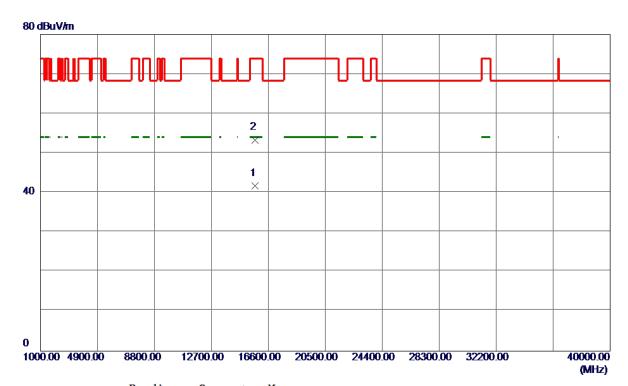
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	39. 30	16. 65	<b>55.95</b>	74.00	− <b>18. 05</b>	Peak	
2	5150.0000	28.64	16.65	45. 29	54.00	-8.71	AVG	
3 *	5243.0000	85. 17	16. 91	102.08	68.30	33. 78	Peak	No Limit
4	5243. 0000	78. 36	16. 91	95. 27	999.00	-903. 73	AVG	No Limit

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### Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15690. 9000	23. 63	18. 15	41.78	54.00	-12. 22	AVG	
2	15692. 1200	35. 21	18. 15	53. 36	74.00	-20. 64	Peak	

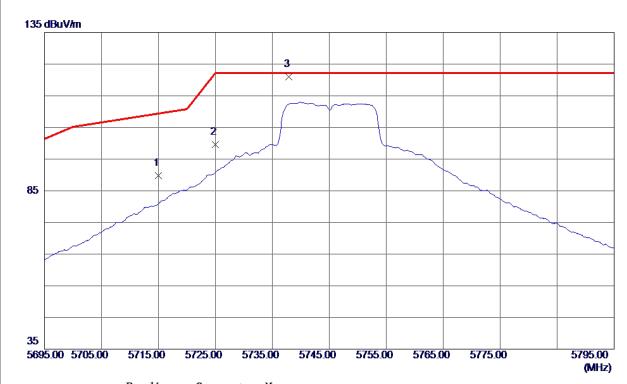
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Orthogonal Axis:	X
Test Mode:	UNII-3/TX A Mode 5745MHz

# Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	69.46	20. 33	89. 79	109.40	-19.61	Peak	
2	5725.0000	79. 29	20. 37	99.66	122. 20	-22. 54	Peak	
3 *	5737. 9000	100. 52	20. 42	120. 94	122. 20	-1. 26	Peak	

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### **Vertical**



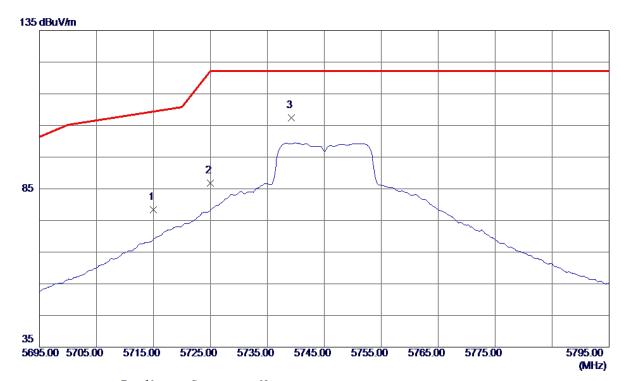
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17235. 1350	37. 51	21.67	59. 18	68.30	-9. 12	Peak	

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### Horizontal



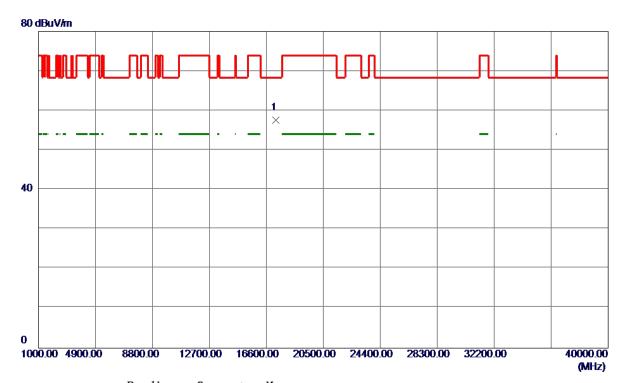
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	59. 93	18. 40	78. 33	109.40	-31.07	Peak	
2	5725. 0000	68. 32	18. 44	86. 76	122. 20	-35.44	Peak	
3 *	5739. 2000	88. 89	18. 49	107. 38	122. 20	-14.82	Peak	

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### Horizontal



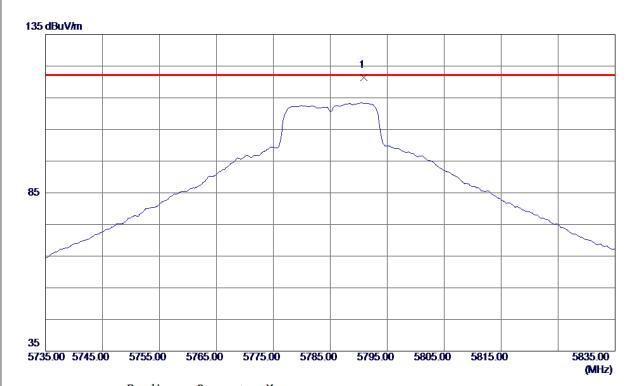
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17234. 2400	35. 99	21.67	57.66	68. 30	-10.64	Peak	

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### **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5790. 9000	100. 76	20. 62	121. 38	122. 20	-0.82	Peak	

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### **Vertical**



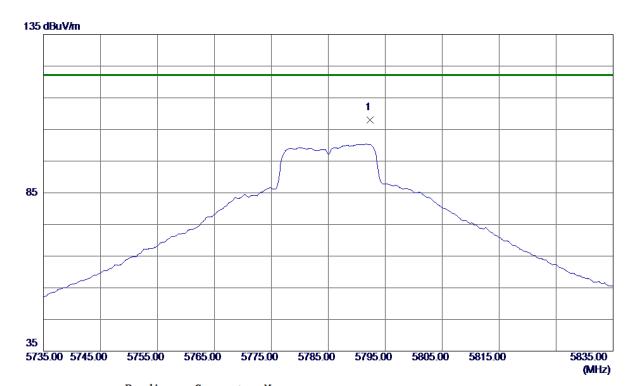
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17357. 3500	35. 59	21.88	57.47	68. 30	-10.83	Peak	

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### Horizontal



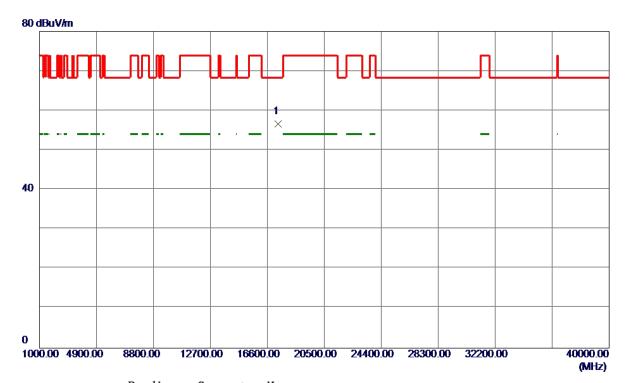
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5792. 3000	89. 28	18. 67	107.95	122. 20	-14. 25	Peak	

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### Horizontal



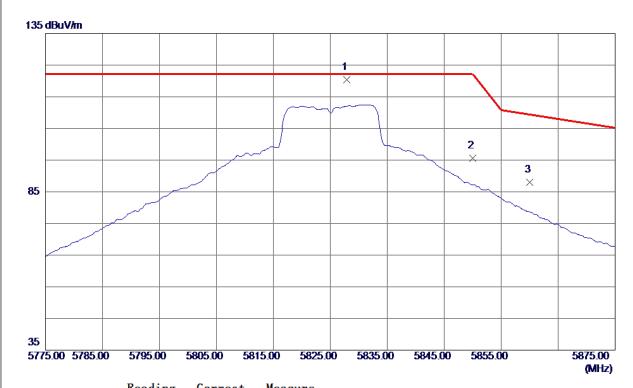
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17356. 2050	34.72	21.87	56. 59	68. 30	-11.71	Peak	

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### **Vertical**



No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5827.9000	99.71	20. 76	120. 47	122. 20	-1.73	Peak	
2	5850.0000	74. 79	20.84	95. 63	122. 20	-26. 57	Peak	
3	5860. 0000	67.07	20. 88	87. 95	109.40	-21.45	Peak	

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### **Vertical**



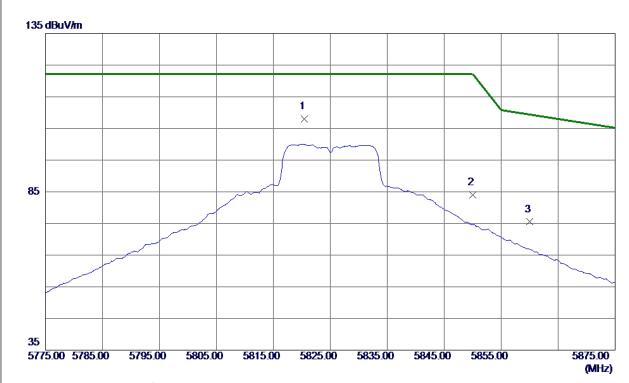
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17472. 9800	35. 81	22. 07	57.88	68. 30	-10.42	Peak	

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### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5820.4000	89. 30	18.77	108. 07	122. 20	-14. 13	Peak	
2	5850.0000	65. 05	18.88	83. 93	122. 20	-38. 27	Peak	
3	5860.0000	56. 59	18. 91	75. 50	109.40	-33. 90	Peak	

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### Horizontal



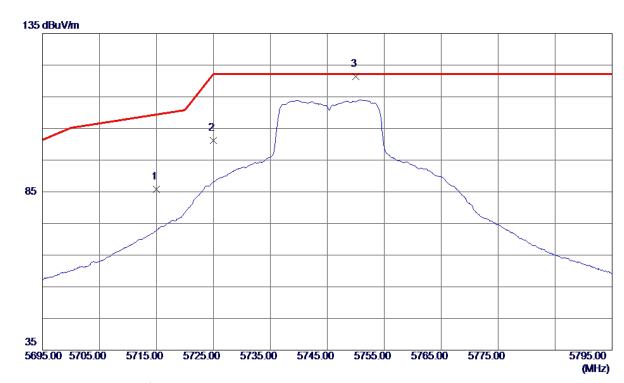
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17474. 2449	34. 49	22.07	56. 56	68.30	-11.74	Peak	

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### **Vertical**



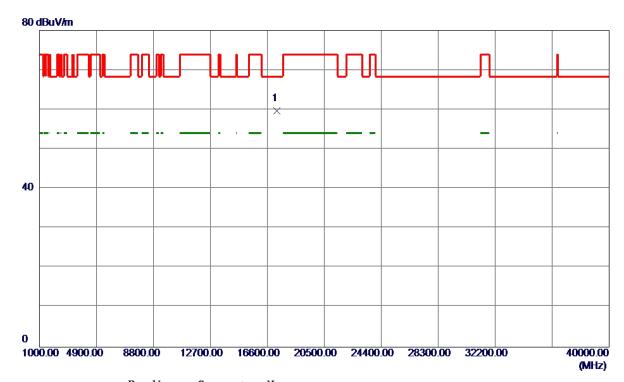
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	65. 55	20. 33	85.88	109.40	-23. 52	Peak	
2	5725.0000	80.77	20. 37	101. 14	122. 20	-21.06	Peak	
3 *	5750. 0000	100.94	20.46	121.40	122. 20	-0.80	Peak	

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### Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17235. 8550	37.94	21. 67	59. 61	68. 30	-8. 69	Peak	

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

### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	52. 35	18. 40	70.75	109.40	-38.65	Peak	
2	5725.0000	65. 62	18. 44	84.06	122. 20	-38. 14	Peak	
3 *	5738. 8000	85. 34	18. 49	103.83	122. 20	-18. 37	Peak	

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### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17236. 0200	36.06	21.67	57. 73	68.30	-10. 57	Peak	

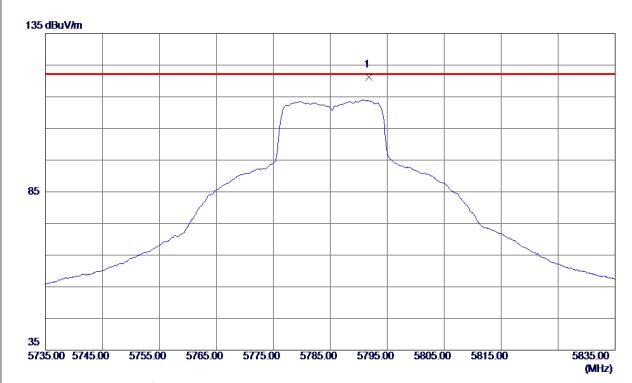
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Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

### Vertical



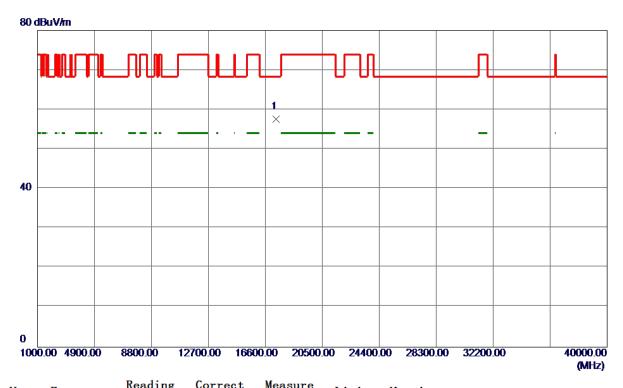
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5791.8000	100.64	20. 62	121. 26	122. 20	-0.94	Peak	

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### **Vertical**



No.	Freq.	Level	Factor	measure	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17355. 1850	35. 73	21. 87	57. 60	68. 30	-10.70	Peak	

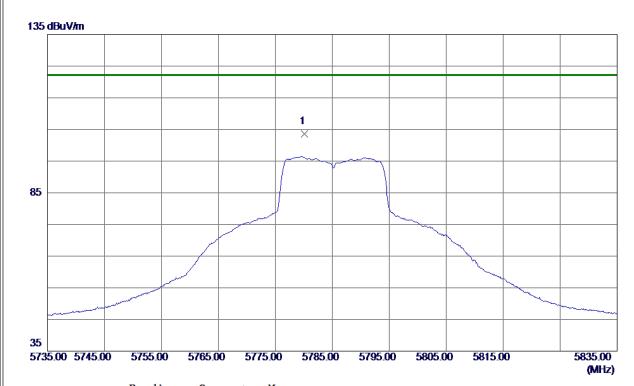
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Orthogonal Axis:	X
Test Mode:	UNII-3/TX N20 Mode 5785MHz

### Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5780. 1000	84. 91	18. 63	103. 54	122. 20	-18.66	Peak	

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## Horizontal



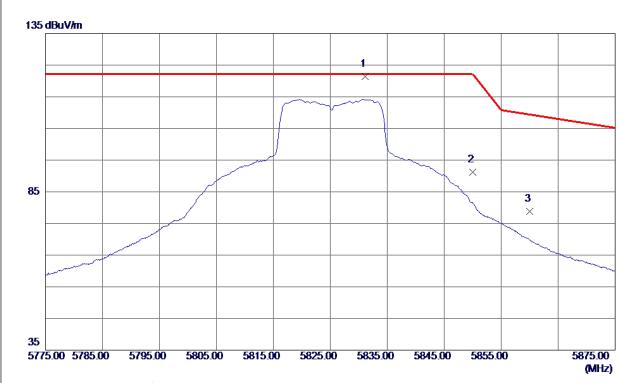
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17354.7350	34.74	21.87	56. 61	68. 30	-11.69	Peak	

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## **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5831. 1000	100.60	20.77	121. 37	122. 20	-0.83	Peak	
2	5850.0000	70. 37	20.84	91. 21	122. 20	-30.99	Peak	
3	5860.0000	57. 97	20.88	78.85	109.40	-30. 55	Peak	

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## **Vertical**



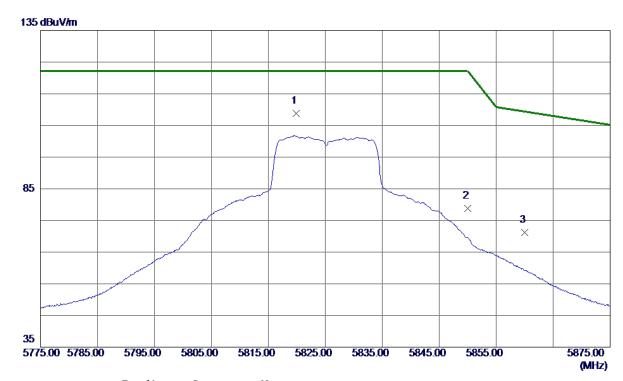
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17476. 7050	36. 64	22. 08	58. 72	68. 30	-9. 58	Peak	

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## Horizontal



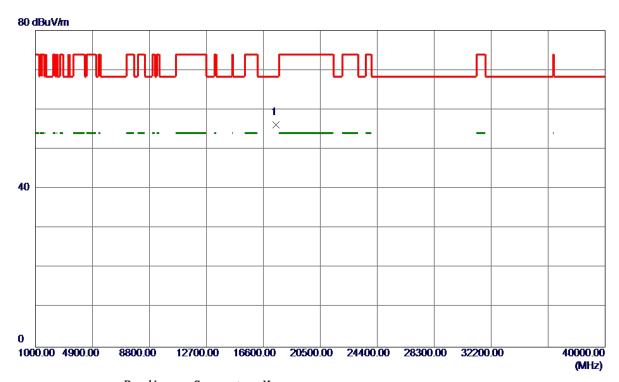
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5819. 9000	89. 98	18.77	108.75	122. 20	-13.45	Peak	
2	5850.0000	59. 98	18.88	78.86	122. 20	-43.34	Peak	
3	5860.0000	52. 32	18. 91	71. 23	109.40	-38. 17	Peak	

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## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17474. 6600	34. 15	22. 07	56. 22	68.30	<b>-12.08</b>	Peak	

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## **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	72.89	20. 33	93. 22	109.40	-16. 18	Peak	
2	5725. 0000	78.41	20. 37	98. 78	122. 20	-23.42	Peak	
3 *	5740. 4000	97. 17	20. 43	117.60	122. 20	-4.60	Peak	

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## **Vertical**



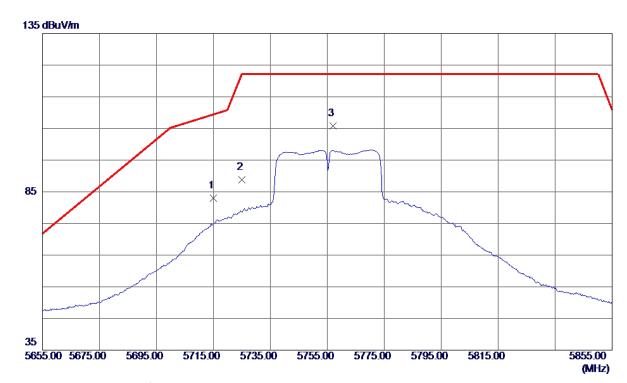
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17266. 9949	36. 12	21.73	57.85	68. 30	-10.45	Peak	

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## Horizontal



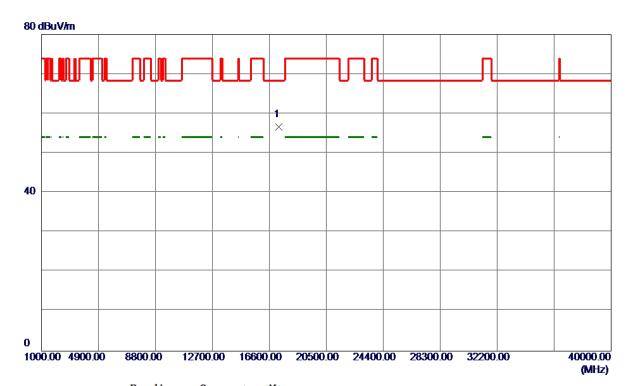
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	64. 59	18. 40	82. 99	109.40	-26.41	Peak	
2	5725.0000	70. 35	18. 44	88. 79	122. 20	-33.41	Peak	
3 *	5757.0000	87. 17	18. 55	105. 72	122. 20	-16.48	Peak	

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## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17266. 9550	34.88	21.73	56. 61	68.30	-11. 69	Peak	

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## **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5797. 2000	99. 27	20.64	119. 91	122. 20	-2. 29	Peak	
2	5850.0000	66.74	20.84	87. 58	122. 20	-34.62	Peak	
3	5860.0000	63. 10	20.88	83. 98	109.40	-25. 42	Peak	

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## Vertical



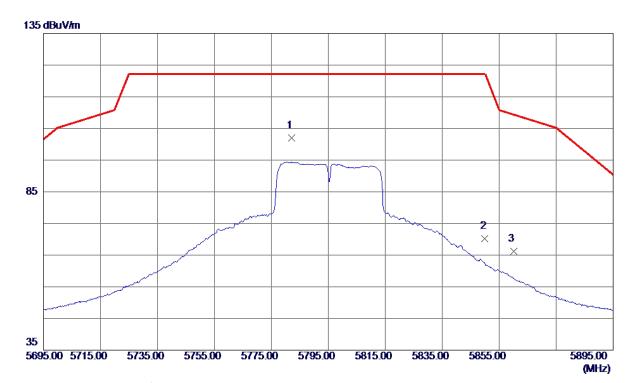
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17387.0600	35. 80	21.93	57.73	68.30	-10. 57	Peak	

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## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5782. 2000	83. 33	18.64	101.97	122. 20	-20. 23	Peak	
2	5850.0000	51. 27	18.88	70. 15	122. 20	<b>-52.05</b>	Peak	
3	5860.0000	47. 27	18. 91	66. 18	109.40	-43. 22	Peak	

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## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17383.8100	34. 50	21.92	56. 42	68. 30	-11.88	Peak	

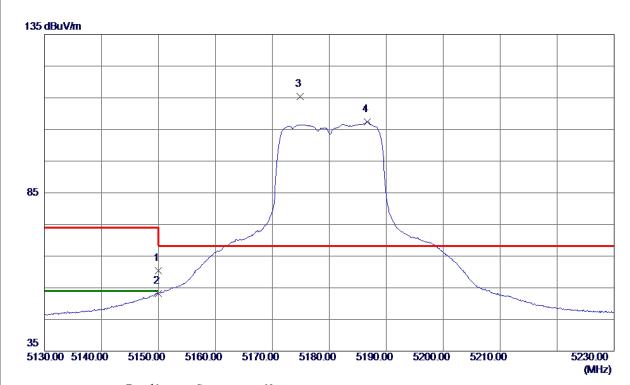
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180MHz

## Vertical



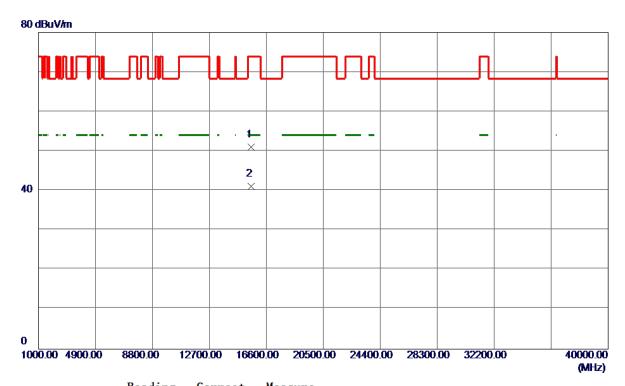
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	43.02	17. 38	60.40	74.00	-13.60	Peak	
2	5150.0000	35. 85	17. 38	53. 23	54.00	-0.77	AVG	
3 *	5174.9000	97.84	17. 53	115. 37	68.30	47.07	Peak	No Limit
4	5186. 7000	89. 82	17.61	107.43	999.00	-891. 57	AVG	No Limit

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## **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15540. 1800	32.84	18. 18	51.02	74.00	-22. 98	Peak	
2 *	15542. 3700	22. 87	18. 18	41.05	54.00	-12. 95	AVG	

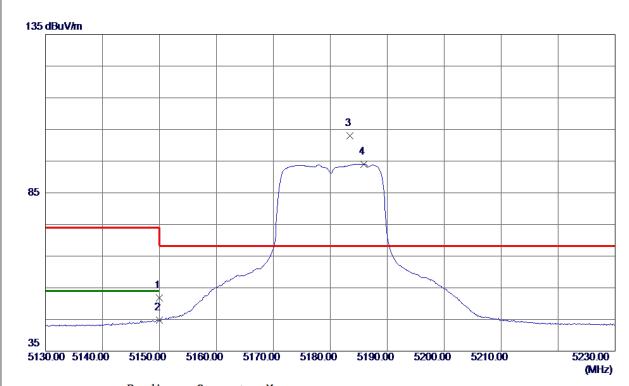
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC20 Mode 5180MHz

## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	35. 19	16.65	51.84	74.00	-22. 16	Peak	
2	5150.0000	28. 06	16.65	44.71	54.00	-9. 29	AVG	
3 *	5183.4000	86. 36	16. 74	103. 10	68.30	34.80	Peak	No Limit
4	5185. 9000	77. 34	16. 75	94. 09	999. 00	-904. 91	AVG	No Limit

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## Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15525. 9900	34. 12	18. 19	52. 31	74.00	-21.69	Peak	
2 *	15545. 7300	22. 76	18. 18	40. 94	54.00	-13.06	AVG	

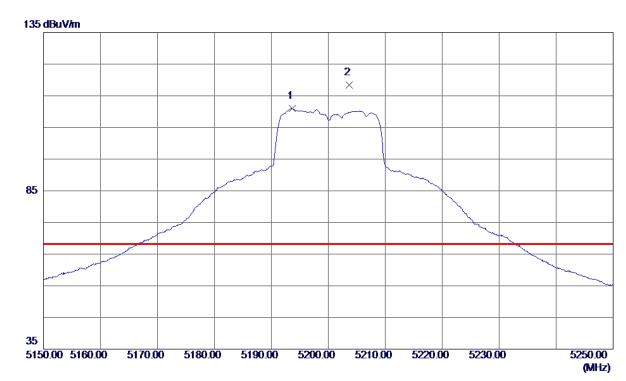
Report No.: BTL-FCCP-2-1803C313 Page 125 of 339





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

# Vertical



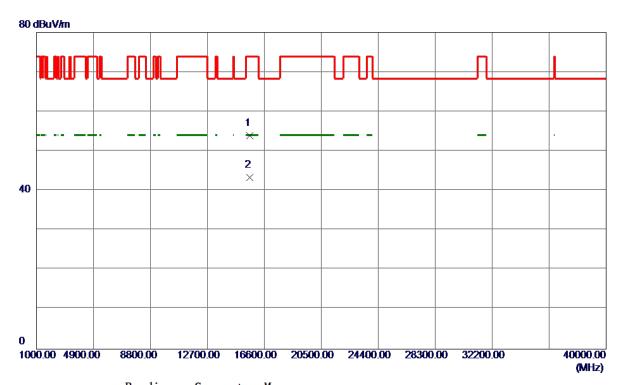
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5193.7000	93.41	17.65	111.06	999.00	-887.94	AVG	No Limit
2 *	5203.7000	100.76	17.71	118.47	68. 30	50. 17	Peak	No Limit

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## **Vertical**



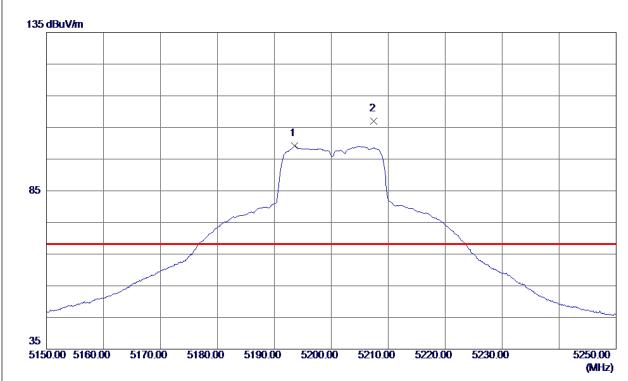
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15602. 5200	35. 82	18. 17	53.99	74.00	-20.01	Peak	
2 *	15605. 3100	25. 14	18. 17	43. 31	54.00	-10.69	AVG	

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## Horizontal



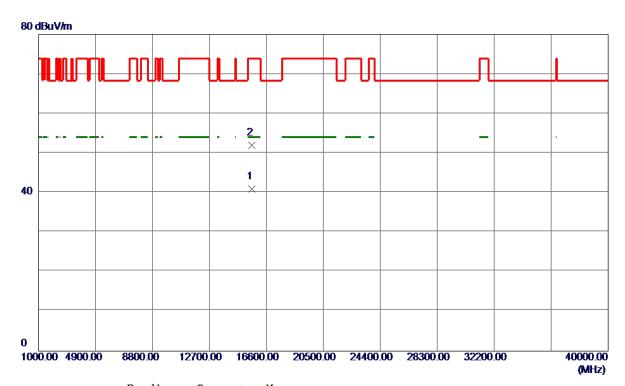
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5193.6000	82.48	16.77	99. 25	999.00	-899.75	AVG	No Limit
2 *	5207. 5000	90. 14	16.81	106. 95	68. 30	38. 65	Peak	No Limit

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## Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15609. 4500	22.82	18. 17	40. 99	54.00	-13.01	AVG	
2	15613. 4100	33. 83	18. 17	52.00	74.00	-22.00	Peak	

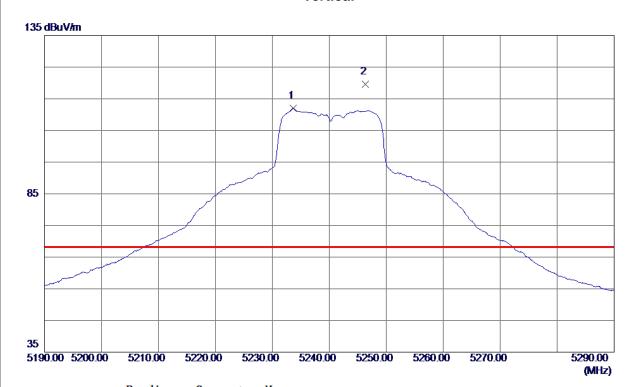
Report No.: BTL-FCCP-2-1803C313 Page 129 of 339





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

## Vertical



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5233.7000	94. 19	17.89	112.08	999.00	-886. 92	AVG	No Limit
2 *	5246. 3000	101.63	17. 97	119. 60	68.30	51. 30	Peak	No Limit

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## **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	15725. 0500	27.03	18. 14	45. 17	54.00	-8.83	AVG	
2	15726. 0650	39. 19	18. 14	57. 33	74.00	-16. 67	Peak	

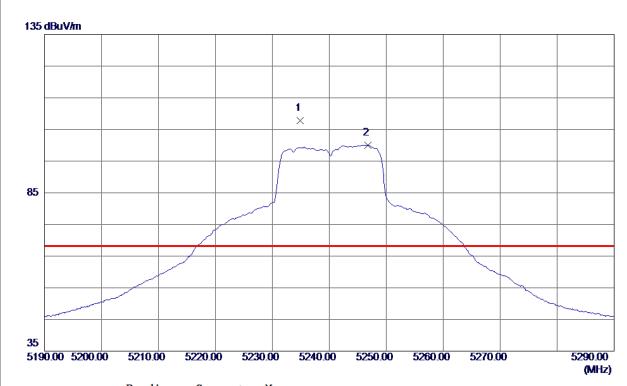
Report No.: BTL-FCCP-2-1803C313 Page 131 of 339





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

## Horizontal



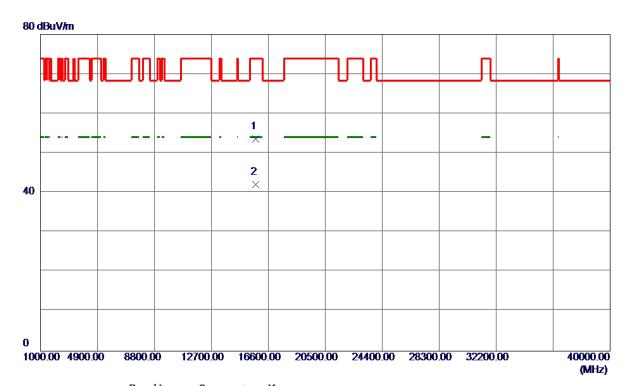
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5234.9000	90. 96	16.89	107.85	68.30	39. 55	Peak	No Limit
2	5246. 8000	83. 17	16. 92	100.09	999.00	-898. 91	AVG	No Limit

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## Horizontal



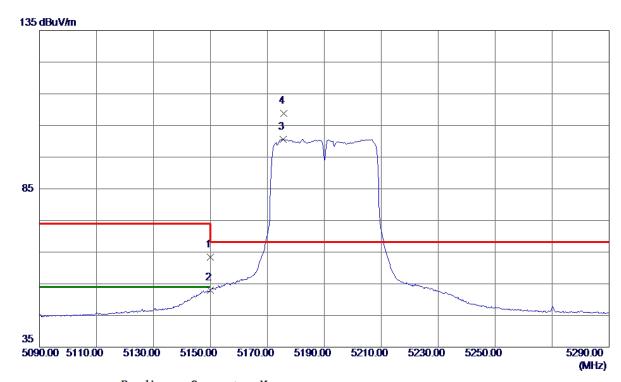
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15723. 5950	35. 44	18. 14	53. 58	74.00	-20.42	Peak	
2 *	15724. 5300	23. 88	18. 14	42.02	54.00	-11. 98	AVG	

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## **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	46.08	17. 38	63.46	74.00	-10.54	Peak	
2	5150.0000	35. 65	17. 38	53. 03	54.00	-0.97	AVG	
3	5175. 6000	83. 13	17. 54	100.67	999.00	-898. 33	AVG	No Limit
4 *	5175. 8000	91. 29	17. 54	108.83	68. 30	40. 53	Peak	No Limit

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## **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15568.8850	34.06	18. 18	52. 24	74.00	-21.76	Peak	
2 *	15569. 8800	22. 75	18. 18	40. 93	54.00	-13. 07	AVG	

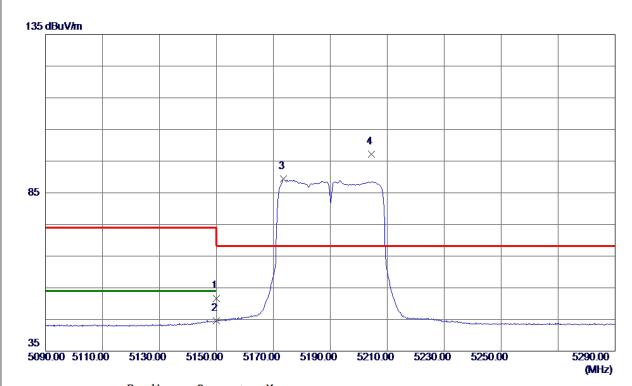
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5190MHz

## Horizontal



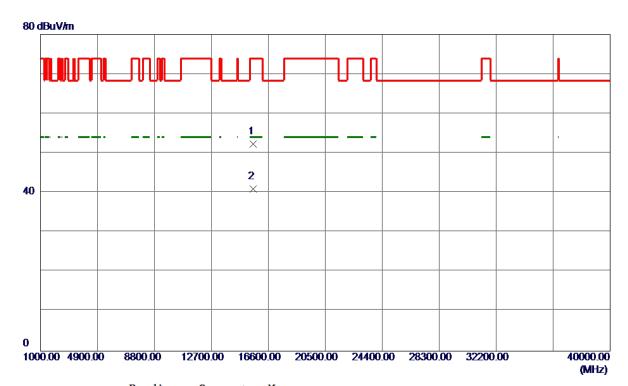
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	35.05	16.65	51.70	74.00	-22.30	Peak	
2	5150.0000	27. 92	16.65	44. 57	54.00	-9.43	AVG	
3	5173.6000	72. 63	16.71	89. 34	999.00	-909.66	AVG	No Limit
4 *	5204.4000	80. 34	16. 80	97. 14	68. 30	28. 84	Peak	No Limit

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## Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15571. 1300	34. 10	18. 18	52. 28	74.00	-21.72	Peak	
2 *	15571. 2750	22. 76	18. 18	40. 94	54.00	-13.06	AVG	

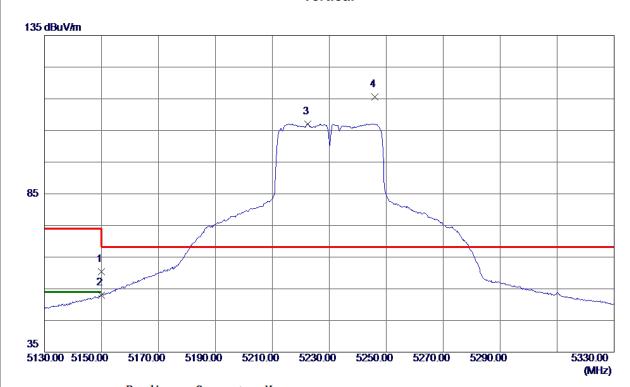
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC40 Mode 5230MHz

## **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	43.03	17. 38	60.41	74.00	-13.59	Peak	
2	5150.0000	35. 56	17. 38	52. 94	54.00	-1.06	AVG	
3	5222. 4000	89. 27	17.82	107.09	999.00	-891. 91	AVG	No Limit
4 *	5246. 0000	97.61	17. 97	115. 58	68. 30	47.28	Peak	No Limit

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

## **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15688. 8950	35. 51	18. 15	53.66	74.00	-20.34	Peak	
2 *	15690. 7350	24. 96	18. 15	43. 11	54.00	-10.89	AVG	

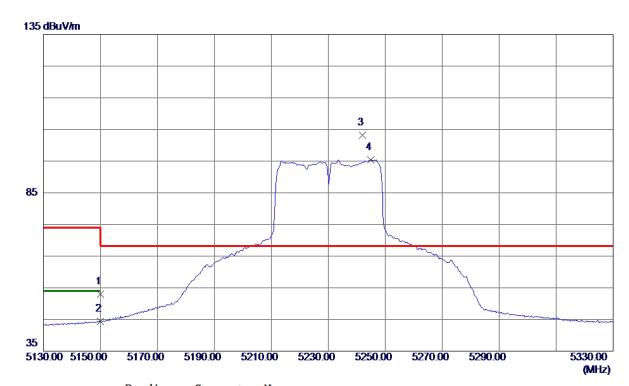
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC40 Mode 5230MHz

## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	36. 43	16.65	53.08	74.00	-20.92	Peak	
2	5150.0000	27.74	16.65	44. 39	54.00	-9.61	AVG	
3 *	5242.0000	86. 23	16. 91	103. 14	68.30	34.84	Peak	No Limit
4	5244.8000	78. 48	16. 92	95. 40	999.00	-903. 60	AVG	No Limit

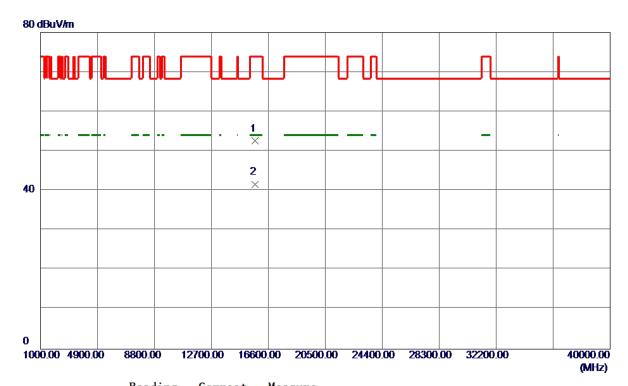
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC40 Mode 5230MHz

## Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15688. 1400	34.41	18. 15	52. 56	74.00	-21.44	Peak	
2 *	15690. 1400	23. 45	18. 15	41.60	54.00	-12. 40	AVG	

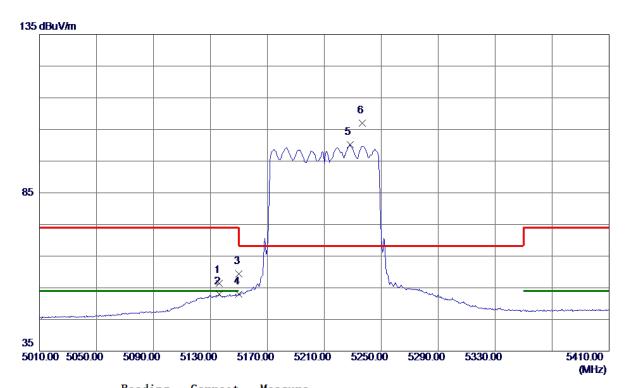
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Orthogonal Axis:	X
Test Mode:	UNII-1/ TX AC80 Mode 5210MHz

## **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5136. 4000	39. 20	17. 30	56. 50	74.00	-17. 50	Peak	
2	5136. 4000	35. 65	17. 30	52. 95	54.00	-1.05	AVG	
3	5150.0000	42.01	17. 38	59. 39	74.00	-14.61	Peak	
4	5150.0000	35. 55	17. 38	52. 93	54.00	-1.07	AVG	
5	5228. 0000	82. 27	17.86	100. 13	999.00	-898.87	AVG	No Limit
6 *	5236. 8000	89. 14	17. 91	107. 05	68. 30	38. 75	Peak	No Limit

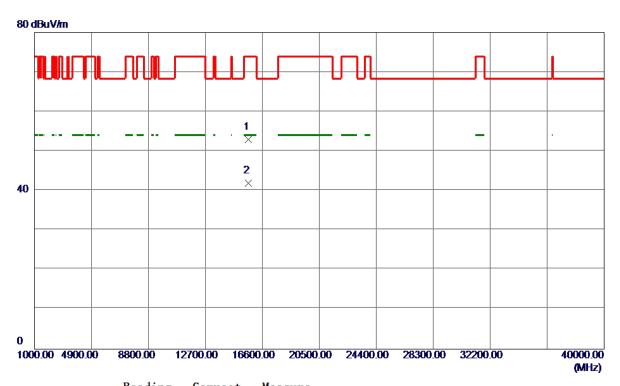
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC80 Mode 5210MHz

## **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15629. 5200	34. 76	18. 16	52. 92	74.00	<b>−21. 08</b>	Peak	
2 *	15631.6500	23.82	18. 16	41. 98	54.00	-12. 02	AVG	

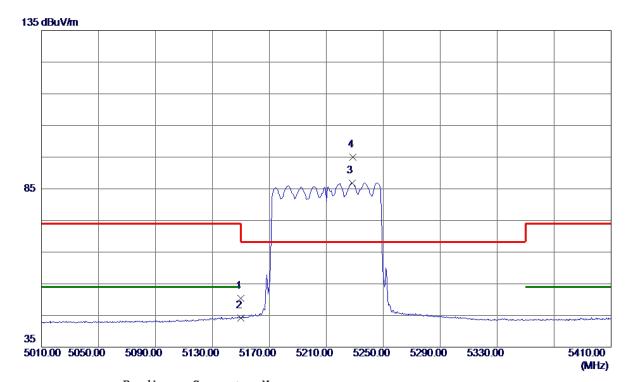
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Orthogonal Axis: X
Test Mode: UNII-1/ TX AC80 Mode 5210MHz

## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	33.82	16.65	50.47	74.00	-23.53	Peak	
2	5150.0000	27.48	16.65	44. 13	54.00	-9.87	AVG	
3	5228. 0000	70.00	16. 87	86. 87	999.00	-912. 13	AVG	No Limit
4 *	5228. 8000	78. 09	16. 87	94. 96	68. 30	26.66	Peak	No Limit

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## Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	15629. 2600	34.04	18. 16	52. 20	74.00	-21.80	Peak	
2 *	15632. 3300	22. 69	18. 16	40.85	54.00	-13. 15	AVG	

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

# Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	60.05	20. 33	80. 38	109.40	-29.02	Peak	
2	5725.0000	73. 25	20. 37	93. 62	122. 20	-28. 58	Peak	
3 *	5751. 1000	99. 10	20. 47	119. 57	122. 20	-2.63	Peak	

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## **Vertical**



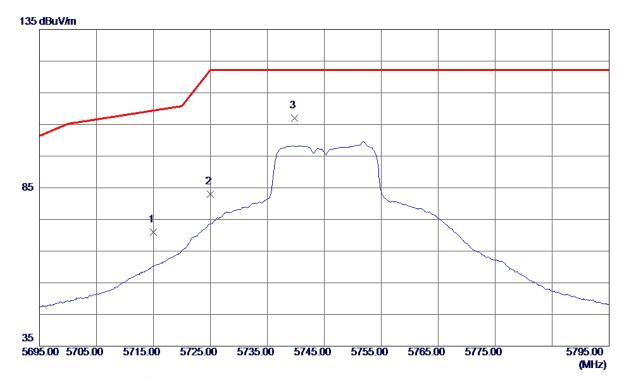
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17233. 8450	38. 29	21. 67	59. 96	68. 30	-8. 34	Peak	

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## Horizontal



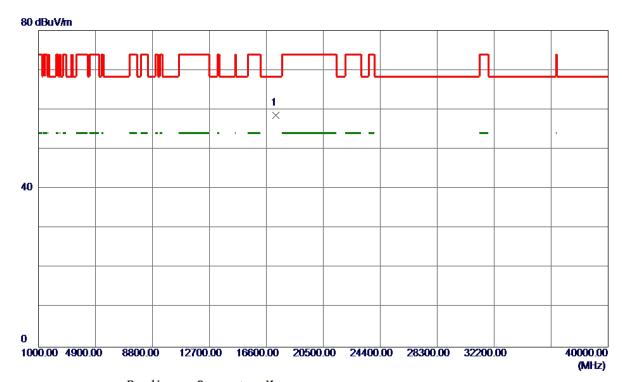
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	52. 52	18. 40	70.92	109.40	-38.48	Peak	
2	5725.0000	64. 59	18. 44	83. 03	122. 20	-39. 17	Peak	
3 *	5739. 8000	88. 55	18. 49	107.04	122. 20	-15. 16	Peak	

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## Horizontal



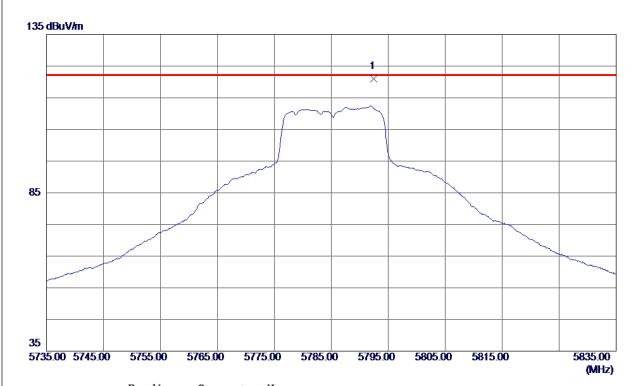
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17234. 7400	36. 92	21. 67	58. 59	68. 30	-9.71	Peak	

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## **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5792. 5000	100. 33	20. 62	120. 95	122. 20	-1. 25	Peak	

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## **Vertical**



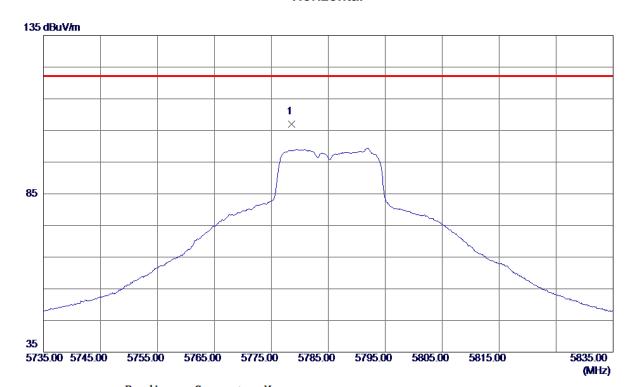
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17354.7550	35. 35	21.87	57. 22	68.30	-11.08	Peak	

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## Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5778. 6000	88. 43	18. 63	107.06	122. 20	-15. 14	Peak	

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## Horizontal



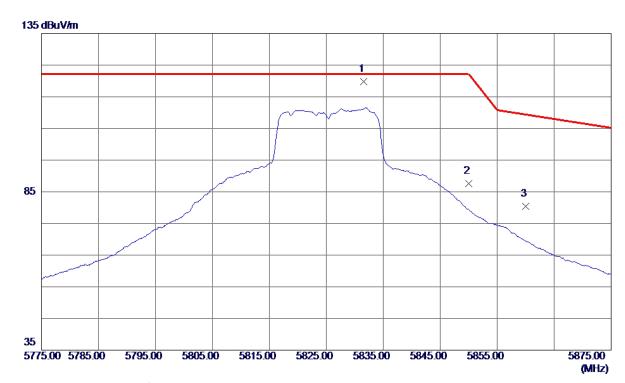
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17353. 4850	34.95	21.87	56. 82	68.30	-11.48	Peak	

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## **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5831.6000	98. 96	20.77	119.73	122. 20	-2.47	Peak	
2	5850.0000	66. 81	20.84	87.65	122. 20	-34. 55	Peak	
3	5860. 0000	59. 55	20.88	80. 43	109.40	-28. 97	Peak	

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## **Vertical**



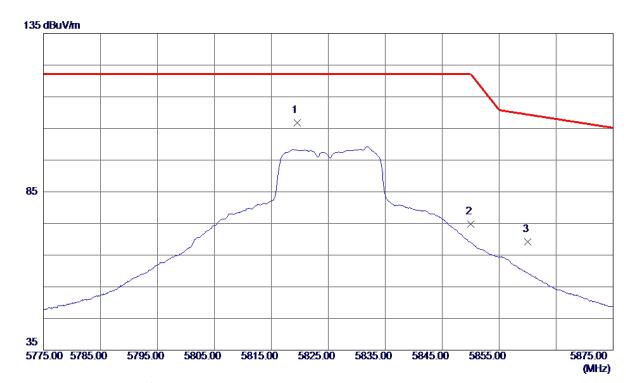
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17474. 2500	36. 73	22. 07	58. 80	68.30	<b>-9.50</b>	Peak	

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## Horizontal



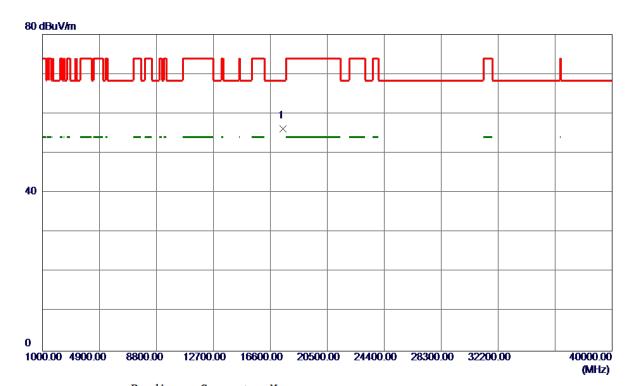
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5819. 5000	87. 95	18.77	106. 72	122. 20	-15. 48	Peak	
2	5850.0000	55. 98	18.88	74.86	122. 20	-47.34	Peak	
3	5860.0000	50. 22	18. 91	69. 13	109.40	-40. 27	Peak	

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## Horizontal



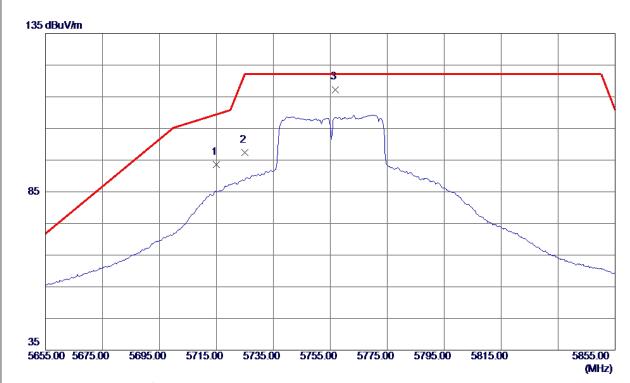
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17474. 6950	34. 17	22.07	56. 24	68.30	-12.06	Peak	

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## **Vertical**



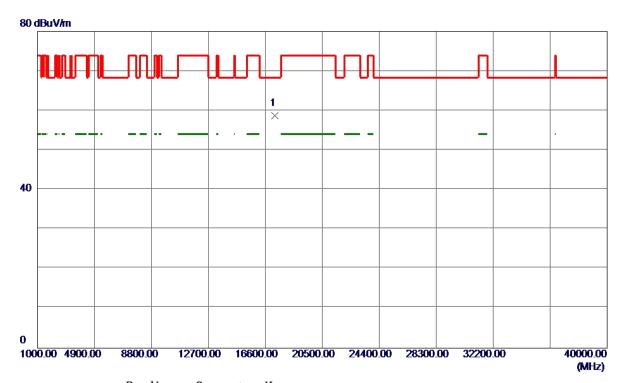
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	73. 24	20. 33	93. 57	109.40	-15.83	Peak	
2	5725.0000	77.05	20. 37	97.42	122. 20	-24. 78	Peak	
3 *	5756. 8000	96. 81	20. 49	117. 30	122. 20	-4.90	Peak	

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## **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17263. 1000	36. 97	21.72	58. 69	68. 30	-9. 61	Peak	

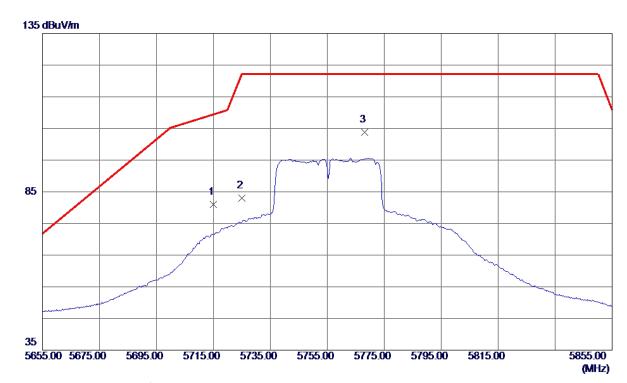
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Orthogonal Axis:	X
Test Mode:	UNII-3/TX AC40 Mode 5755MHz

## Horizontal



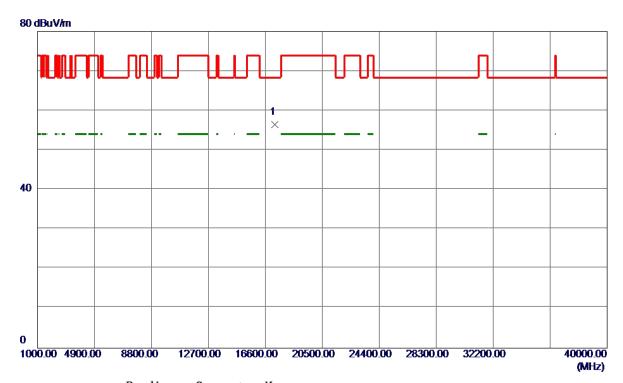
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715. 0000	62.63	18. 40	81. 03	109.40	-28. 37	Peak	
2	5725. 0000	64. 53	18. 44	82. 97	122. 20	-39. 23	Peak	
3 *	5768. 2000	85. 29	18. 59	103.88	122. 20	-18. 32	Peak	

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## Horizontal



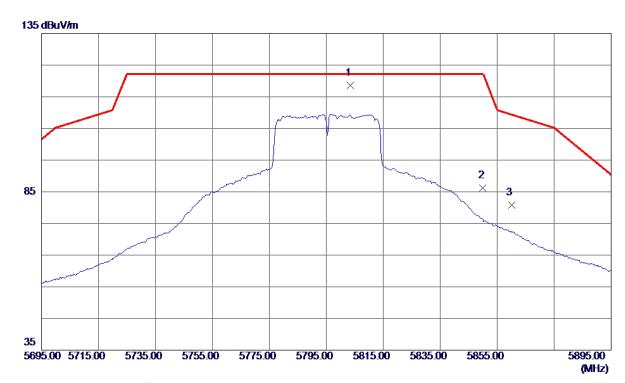
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17266. 1600	34.82	21.72	56. 54	68.30	-11.76	Peak	

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## **Vertical**



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5803.4000	97.85	20.66	118. 51	122. 20	-3. 69	Peak	
2	5850.0000	65. 30	20.84	86. 14	122. 20	-36.06	Peak	
3	5860. 0000	59. 91	20.88	80. 79	109.40	-28.61	Peak	

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## **Vertical**



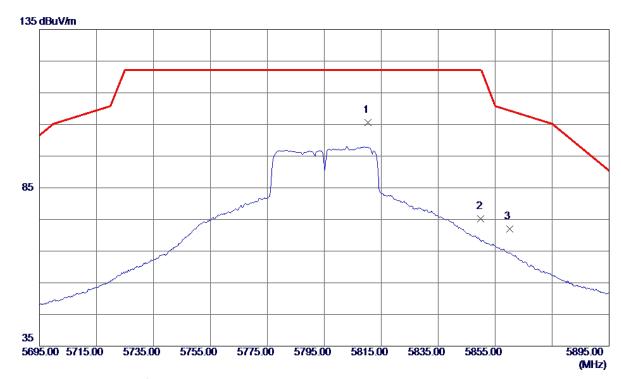
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17383. 0500	35. 57	21. 92	57. 49	68.30	-10.81	Peak	

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## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5810. 4000	86. 81	18.74	105. 55	122. 20	-16.65	Peak	
2	5850.0000	56. 38	18. 88	75. 26	122. 20	-46. 94	Peak	
3	5860. 0000	53.04	18. 91	71.95	109.40	-37.45	Peak	

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## Horizontal



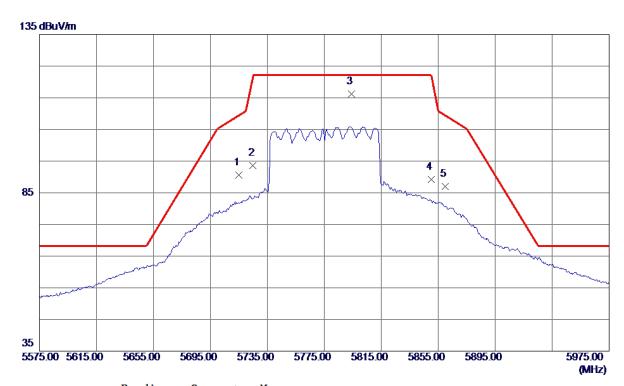
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17383. 0450	33. 95	21.92	55. 87	68.30	-12.43	Peak	

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## **Vertical**



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	70. 26	20. 33	90. 59	109.40	-18.81	Peak	
2	5725.0000	73. 29	20. 37	93.66	122. 20	-28. 54	Peak	
3 *	5794. 2000	95. 61	20.63	116. 24	122. 20	-5. 96	Peak	
4	5850.0000	68. 31	20.84	89. 15	122. 20	-33. 05	Peak	
5	5860.0000	66. 17	20.88	87.05	109.40	-22. 35	Peak	

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## **Vertical**



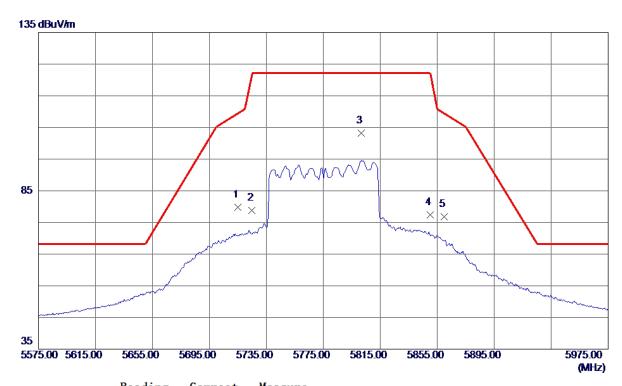
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17323. 6199	34.91	21.82	56. 73	68.30	-11. 57	Peak	

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## Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5715.0000	61.43	18. 40	79.83	109.40	-29. 57	Peak	
2	5725. 0000	60. 39	18. 44	78. 83	122. 20	-43. 37	Peak	
3 *	5801.8000	84. 53	18.71	103. 24	122. 20	-18.96	Peak	
4	5850.0000	58. 55	18.88	77.43	122. 20	-44.77	Peak	
5	5860.0000	57. 95	18. 91	76. 86	109.40	-32. 54	Peak	

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## Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	17326. 6000	32.67	21.83	<b>54. 50</b>	68.30	-13.80	Peak	

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#### TX A Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHz

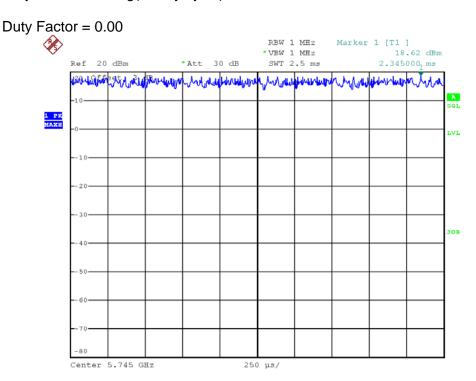
Duty cycle =  $T_{ON} / T_{Total}$ 

T<sub>ON</sub>: 100000.000 msec

T<sub>Total</sub>: 100000.000 msec

Duty cycle: 100.000%

Duty Factor = 10 log(1/Duty cycle)



Date: 3.JAN.2003 02:43:25

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

Power Spectral Density = Measured density + Duty factor

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#### TX N20 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHz

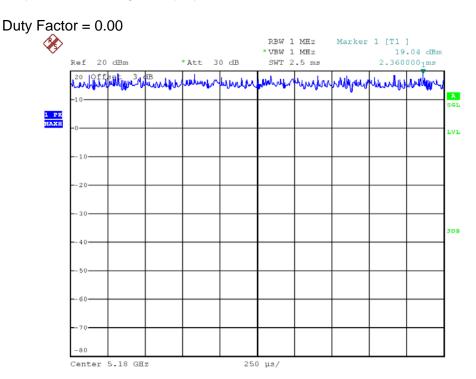
Duty cycle =  $T_{ON} / T_{Total}$ 

T<sub>ON</sub>: 100000.000 msec

T<sub>Total</sub>: 100000.000 msec

Duty cycle: 100.000%

Duty Factor = 10 log(1/Duty cycle)



Date: 3.JAN.2003 02:53:19

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

Power Spectral Density = Measured density + Duty factor

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#### TX N40 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHz

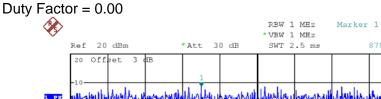
Duty cycle =  $T_{ON} / T_{Total}$ 

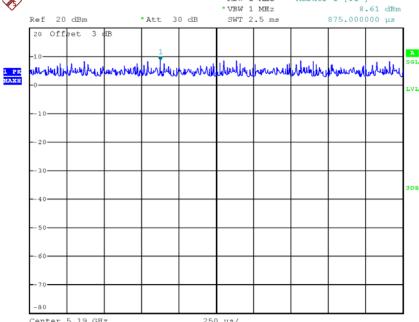
T<sub>ON</sub>: 100000.000 msec

T<sub>Total</sub>: 100000.000 msec

Duty cycle: 100.000%

Duty Factor = 10 log(1/Duty cycle)





Date: 3.JAN.2003 03:21:05

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

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#### TX AC20 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHz

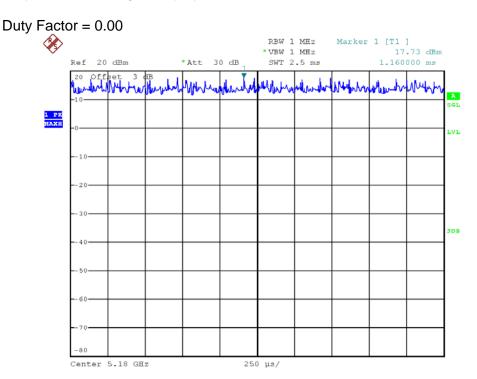
Duty cycle =  $T_{ON} / T_{Total}$ 

T<sub>ON</sub>: 100000.000 msec

T<sub>Total</sub>: 100000.000 msec

Duty cycle: 100.000%

Duty Factor = 10 log(1/Duty cycle)



Date: 3.JAN.2003 03:08:41

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

Power Spectral Density = Measured density + Duty factor

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#### TX AC40 Mode\_DUTY CYCLE

Duty cycle: TX DUTYMHz

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

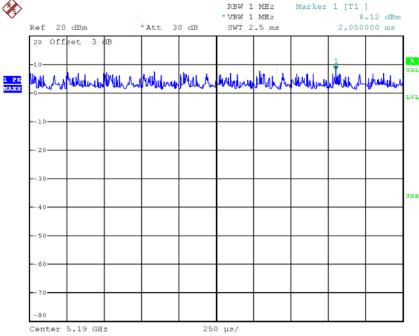
T<sub>ON</sub>: 100000.000 msec

T<sub>Total</sub>: 100000.000 msec

Duty cycle: 100.000%

Duty Factor = 10 log(1/Duty cycle)





Date: 3.JAN.2003 03:30:34

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

Power Spectral Density = Measured density + Duty factor

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