

# **FCC Radio Test Report**

# FCC ID:KA2IR1260A1

This report concerns: Original Grant

**Project No.** : 2007H029

**Equipment**: AC1200 Wi-Fi Gigabit Router

Brand Name : D-Link
Test Model : DIR-1260

Series Model : DIR-822, DIR-821 Applicant : D-Link Corporation

Address : 17595 Mt. Herrmann, Fountain Valley, California United State 92708

**Manufacturer** : D-Link Corporation

Address : No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan

Date of Receipt : Jul. 16, 2020

Date of Test : Jul. 16, 2020~Aug. 18, 2020

**Issued Date** : Sep. 14, 2020

Report Version : R00

**Test Sample** : Engineering Sample No.: SH2020071673-1,SH2020071673-2

Adapter: SH2020071673-8, SH2020071673-9

Standard(s) : FCC Part15, Subpart E(15.407)

ANSI C63.10-2013

FCC KDB 789033 D02 General UNII Test Procedures New Rules

v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

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

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lac MRA



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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

## Limitation

in determining the Pass/Fail results.

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.

Please note that the measurement uncertainty is provided for informational purpose only and are not use



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# **REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue.	Sep. 14, 2020



## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part15, Subpart E(15.407)					
Standard(s) Section	Test Item Test Result		Judgement	Remark	
15.207 15.407(b)	AC Power Line Conducted Emissions	APPENDIX A	PASS		
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX B APPENDIX C APPENDIX D	PASS		
15.407(a) 15.407(e)	Spectrum Bandwidth	APPENDIX E	PASS		
15.407(a)	Maximum Output Power	APPENDIX F	PASS		
15.407(a)	Power Spectral Density	APPENDIX G	PASS		
15.407(g)	Frequency Stability	APPENDIX H	PASS		
15.203	Antenna Requirements		PASS	NOTE (3)	
15.407(c)	Automatically Discontinue Transmission		PASS	NOTE (3)	

#### Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.
- (3) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

(4)	For UNII-1 this device was	functioned as a
. ,	Access point device	Client device



#### 1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 29, Jintang Road, Tangzhen Industry Park, Pudong New Area, Shanghai 201210, China

BTL's Test Firm Registration Number for FCC: 476765

BTL's Designation Number for FCC: CN1241

## 1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

#### A. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9 KHz~30 MHz	V	3.79
		9 KHz~30 MHz	Н	3.57
		30 MHz~200 MHz	٧	4.04
SH-CB01 CI	CISPR	30 MHz~200 MHz	Ι	3.76
		200 MHz~1,000 MHz	٧	4.24
		200 MHz~1,000 MHz	Ι	3.84
		1 GHz~18 GHz	٧	4.46
		1 GHz~18 GHz	Ι	4.40
		18 GHz~40 GHz	V	3.95
		18 GHz~40 GHz	Ι	3.95

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

## 1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Test Voltage	Tested By
AC Power Line Conducted Emissions	24°C	58%	AC 120V/60Hz	Forest
Radiated Emissions-9K-30MHz	24°C	58%	AC 120V/60Hz	Forest
Radiated Emissions-30 MHz to 1GHz	24°C	58%	AC 120V/60Hz	Forest
Radiated Emissions-Above 1000 MHz	<b>24</b> ℃	58%	AC 120V/60Hz	Forest
Spectrum Bandwidth	23°C	54%	AC 120V/60Hz	Forest
Maximum Output Power	23°C	54%	AC 120V/60Hz	Forest
Power Spectral Density	23°C	54%	AC 120V/60Hz	Forest



# 2. GENERAL INFORMATION 2.1 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Wi-Fi Gigabit Router		
Brand Name	D-Link		
Test Model	DIR-1260		
Series Model	DIR-822,DIR-821		
Model Difference(s)	Only differs in model name		
Software Version	1		
Hardware Version	A1		
Power Source	DC voltage supplied from AC/DC adapter.  1#Brand/Mode:T&W/ S12A12-120A100-CJ  2#Brand/Mode:MOC/ MAUS-1201001202		
Power Rating	1# I/P: 100V-240V ~ 50Hz/60Hz Max0.5A, O/P:12V === 1A. 2# I/P: 100V-240V ~ 50Hz/60Hz 0.35A, O/P:12V === 1.0A.		
Operation Frequency	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz		
Modulation Type	OFDM		
Bit Rate of Transmitter	Up to 866.6 Mbps		

Maximum Conducted Output Power for UNII-1 (1TX) CDD	IEEE 802.11a: 23.67 dBm (0.2328 W)
Maximum Conducted Output Power for UNII-3 (1TX) CDD	IEEE 802.11a: 23.30 dBm (0.2138 W)

Maximum Conducted Output Power for UNII-1 (2TX) CDD	IEEE 802.11n (HT20): 24.68 dBm (0.2938 W) IEEE 802.11n (HT40): 22.78 dBm (0.1897 W) IEEE 802.11ac (VHT20): 24.79 dBm (0.3013 W) IEEE 802.11ac (VHT40): 22.83 dBm (0.1919 W) IEEE 802.11ac (VHT80): 22.37 dBm (0.1726 W)
Maximum Conducted Output Power for UNII-3 (2TX) CDD	IEEE 802.11n (HT20): 24.96 dBm (0.3133 W) IEEE 802.11n (HT40): 25.91 dBm (0.3899 W) IEEE 802.11ac (VHT20): 25.03 dBm (0.3184 W) IEEE 802.11ac (VHT40): 25.98 dBm (0.3963 W) IEEE 802.11ac (VHT80): 26.60 dBm (0.4571 W)

Maximum Conducted Output Power for UNII-1 (2TX) Beamforming	IEEE 802.11n (HT20): 24.58 dBm (0.2871 W) IEEE 802.11n (HT40): 22.72 dBm (0.1871 W) IEEE 802.11ac (VHT20): 24.68 dBm (0.2938 W) IEEE 802.11ac (VHT40): 22.72 dBm (0.1871 W) IEEE 802.11ac (VHT80): 22.23 dBm (0.1671 W)
Maximum Conducted Output Power for UNII-3 (2TX) Beamforming	IEEE 802.11n (HT20): 24.88 dBm (0.3076 W) IEEE 802.11n (HT40): 25.78 dBm (0.3784 W) IEEE 802.11ac (VHT20): 24.92 dBm (0.3105 W) IEEE 802.11ac (VHT40): 25.88 dBm (0.3873 W) IEEE 802.11ac (VHT80): 26.50 dBm (0.4467 W)

## Note:

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



# 2. Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-1		UNII-1		UNII-1	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

			11n (HT40) Iac (VHT40)	IEEE 802.11ac (VHT80)	
UNI	UNII-3		UNII-3		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				



#### For 1T1R

3. Antenna Specification:

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	RFlink	RF21C05653A	TPEE	Cable	5	N/A

#### For 2T2R

## 4. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	RFlink	RF21C05653A	TPEE	Cable	5	N/A
2	RFlink	RF21C05654A	TPEE	Cable	5	N/A

#### Note:

## (1) Beamforming:

All antennas have the same gain, Directional gain =  $G_{ANT}$  + 10 log( $N_{ANT}$ ) dBi, that is Directional gain=5 + 10log(2) dBi =8.01; So output power limit is 30-8.01+6=27.99, the UNII-1 power density limit is 17-(8.01-6)=14.99. the UNII-3 power density limit is 30-8.01+6=27.99.

## (2) CDD:

All antennas have the same gain, Directional gain =  $G_{ANT}+Array$  Gain, For power spectral density measurements,  $N_{ANT}$  =2, NSS = 1. So Directional gain =  $G_{ANT}$  + Array Gain =10log ( $N_{ANT}/N_{SS}$ ) dB =5+10log(2/1)dBi=8.01. Then, the UNII-1 power density limit is 17-(11.02-6)=14.99. the UNII-3 power density limit is 30-8.01+6=27.99 For power measurements, Array Gain = 0 dB ( $N_{ANT} \leq 4$ ), so the Directional gain=5.

5. Table for Antenna Configuration:

Operating Mode  TX Mode	Ant. 1	Ant. 2	Ant. 1+2
IEEE 802.11a	✓	✓	×
IEEE 802.11n (HT20)	✓	✓	<b>✓</b>
IEEE 802.11n (HT40)	✓	✓	<b>√</b>
IEEE 802.11ac (VHT20)	✓	✓	✓
IEEE 802.11ac (VHT40)	✓	✓	✓
IEEE 802.11ac (VHT80)	✓	✓	<b>√</b>



## 2.2 TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)
Mode 2	TX N (HT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 3	TX N (HT40) Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)
Mode 8	TX N (HT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 9	TX N (HT40) Mode / CH151,CH159 (UNII-3)
Mode 10	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)
Mode 11	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)
Mode 12	TX AC (VHT80) Mode / CH155 (UNII-3)
Mode 13	TX AC(VHT80) Mode / CH155 (UNII-3)

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test				
Final Test Mode	Description			
Mode 13	Mode 13 TX AC(VHT80) Mode / CH155 (UNII-3)			

Radiated emissions test			
Final Test Mode	Description		
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)		
Mode 2	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)		
Mode 3	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)		
Mode 4	TX AC (VHT80) Mode / CH42 (UNII-1)		
Mode 5	TX A Mode / CH149,CH157,CH165 (UNII-3)		
Mode 6	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)		
Mode 7	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)		
Mode 8	TX AC (VHT80) Mode / CH155 (UNII-3)		



	Conducted test				
Test Mode	Description				
Mode 1	TX A Mode / CH36, CH40, CH48 (UNII-1)				
Mode 4	TX AC (VHT20) Mode / CH36, CH40, CH48 (UNII-1)				
Mode 5	TX AC (VHT40) Mode / CH38, CH46 (UNII-1)				
Mode 6	TX AC (VHT80) Mode / CH42 (UNII-1)				
Mode 7	TX A Mode / CH149,CH157,CH165 (UNII-3)				
Mode 8	TX AC (VHT20) Mode / CH149,CH157,CH165 (UNII-3)				
Mode 9	TX AC (VHT40) Mode / CH151,CH159 (UNII-3)				
Mode 10	TX AC (VHT80) Mode / CH155 (UNII-3)				

## Note:

(1) For radiated emission below 1 GHz test, the IEEE 802.11ac80 is found to be the worst case and recorded.



# 2.3 PARAMETERS OF TEST SOFTWARE

## CDD

UNII-1 - 1TX				
Test Software	QATool_Dbg 0.0.2.8			
Test Frequency (MHz)	5180 5200 5240			
IEEE 802.11a	26 31 34			

UNII-3 - 1TX					
Test Software	QATool_Dbg 0.0.2.8				
Test Frequency (MHz)	5745 5785 5825				
IEEE 802.11a					

UNII-1 - 2TX				
Test Software	QATool_Dbg 0.0.2.8			
Test Frequency (MHz)	5180 5200 5240			
IEEE 802.11n (HT20)	1D 27 2D			
Test Frequency (MHz)	5190	5230		
IEEE 802.11n (HT40)	17	24		

UNII-3 - 2TX				
Test Software	QATool_Dbg 0.0.2.8			
Test Frequency (MHz)	5745 5785 5825			
IEEE 802.11n (HT20)	2E 2E 2E			
Test Frequency (MHz)	5755 5795			
IEEE 802.11n (HT40)	23	2E		

UNII-1 - 2TX			
Test Software	QATool_Dbg 0.0.2.8		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11ac (VHT20)	1D	27	2D
Test Frequency (MHz)	5190	5230	
IEEE 802.11ac (VHT40)	17	24	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	11		



UNII-3 - 2TX			
Test Software	QATool_Dbg 0.0.2.8		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11ac (VHT20)	2E	2E	2E
Test Frequency (MHz)	5755	5795	
IEEE 802.11ac (VHT40)	23	2E	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	2E		



# Beamforming

UNII-1 - 2TX			
Test Software	QATool_Dbg 0.0.2.8		
Test Frequency (MHz)	5180 5200 5240		
IEEE 802.11n (HT20)	1D	27	2D
Test Frequency (MHz)	5190	5230	
IEEE 802.11n (HT40)	17	24	

UNII-3 - 2TX				
Test Software	QATool_Dbg 0.0.2.8			
Test Frequency (MHz)	5745 5785 5825			
IEEE 802.11n (HT20)	2E	2E	2E	
Test Frequency (MHz)	5755	5795		
IEEE 802.11n (HT40)	23	2E		

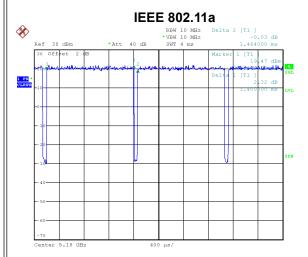
UNII-1 - 2TX			
Test Software	QATool_Dbg 0.0.2.8		
Test Frequency (MHz)	5180	5200	5240
IEEE 802.11ac (VHT20)	1D	27	2D
Test Frequency (MHz)	5190	5230	
IEEE 802.11ac (VHT40)	17	24	
Test Frequency (MHz)	5210		
IEEE 802.11ac (VHT80)	11		

UNII-3 - 2TX			
Test Software	QATool_Dbg 0.0.2.8		
Test Frequency (MHz)	5745	5785	5825
IEEE 802.11ac (VHT20)	2E	2E	2E
Test Frequency (MHz)	5755	5795	
IEEE 802.11ac (VHT40)	23	2E	
Test Frequency (MHz)	5775		
IEEE 802.11ac (VHT80)	2E		



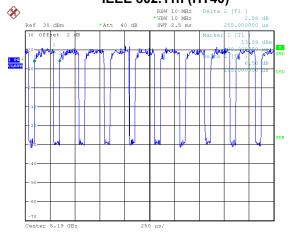
## 2.4 DUTY CYCLE

If duty cycle is  $\geq$  98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered. The output power = measured power + duty factor.



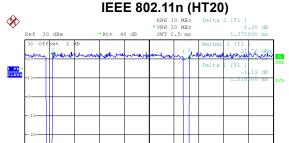
Date: 24.JUL.2020 15:35:53

Duty cycle = 1.400 ms / 1.464 ms = 95.63% Duty Factor = 10 \* log(1 / Duty cycle) = 0.19 dB IEEE 802.11n (HT40)



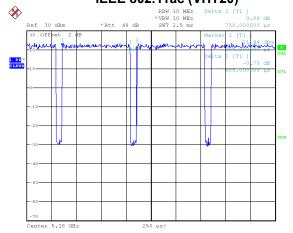
Date: 24.JUL.2020 15:37:19

Duty cycle = 0.195 ms / 0.255 ms = 76.47%Duty Factor =  $10 * \log(1 / \text{Duty cycle}) = 1.17 \text{ dB}$ 



Date: 24.JUL.2020 15:36:24

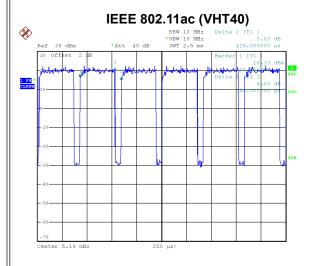
Duty cycle = 1.315 ms / 1.375 ms = 95.64% Duty Factor = 10 \* log(1 / Duty cycle) = 0.19 dB IEEE 802.11ac (VHT20)

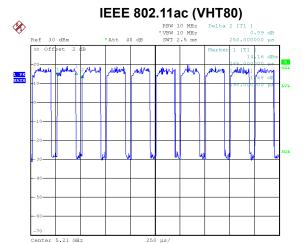


Date: 24.JUL.2020 15:36:45

Duty cycle = 0.685 ms / 0.750 ms = 91.33% Duty Factor = 10 \* log(1 / Duty cycle) = 0.39 dB







Date: 24.JUL.2020 15:37:49

Duty cycle = 0.350 ms / 0.415 ms = 84.34% Duty Factor = 10 \* log(1 / Duty cycle) = 0.74 dB Duty cycle = 0.190 ms / 0.250 ms = 76.00%

Duty Factor = 10 \* log(1 / Duty cycle) = 1.19 dB

#### NOTE

For IEEE 802.11a, IEEE 802.11n (HT20) and IEEE 802.11ac (VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

Date: 24.JUL.2020 15:38:32

For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

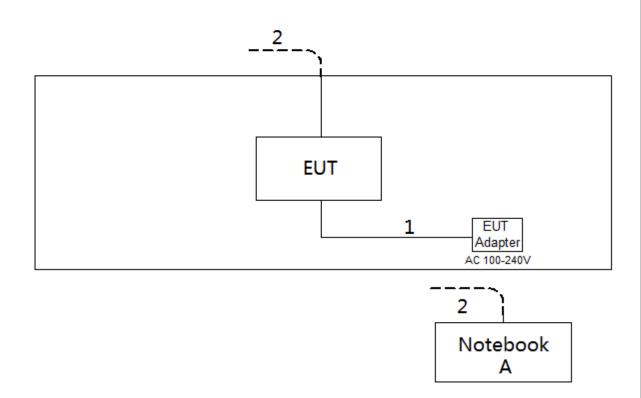
For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac (VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).



## 2.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



## 2.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
Α	Notebook	Dell	Inspiron 15-7559	N/A

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	1.5m
2	RJ45 Cable	NO	NO	10m



#### 3. AC POWER LINE CONDUCTED EMISSIONS TEST

## **3.1 LIMIT**

Frequency	Limit (dBµV)	
(MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56*	56 to 46*
0.50 - 5.0	56	46
5.0 - 30.0	60	50

#### 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.

The following table is the setting of the receiver

The fellowing table is the country of the federal	
Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

## 3.2 TEST PROCEDURE

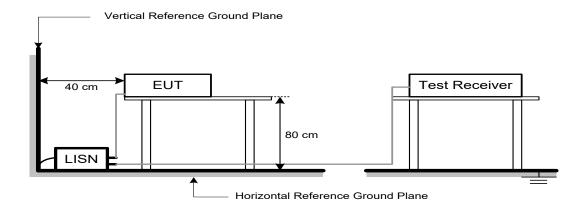
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.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

## 3.3 DEVIATION FROM TEST STANDARD

No deviation



## 3.4 TEST SETUP



## 3.5 EUT OPERATION 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.

## 3.6 TEST RESULTS

Please refer to the APPENDIX A.



## 4. RADIATED EMISSIONS TEST

#### **4.1 LIMIT**

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

LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000 MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/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

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency (MHz)	EIRP Limit (dBm/MHz)	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
5725 5950	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:

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

(2) According to 15.407(b)(4)(i), all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.



#### **4.2 TEST PROCEDURE**

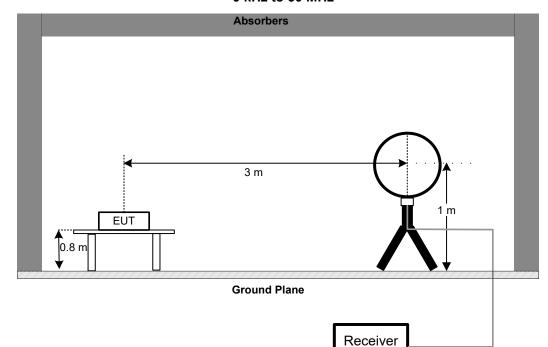
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance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

4.3 DEVIATION FROM TEST STANDARD No deviation

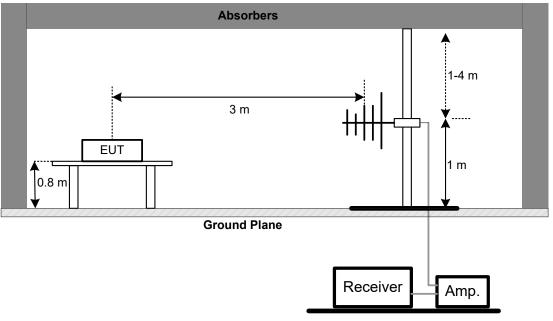


## 4.4 TEST SETUP

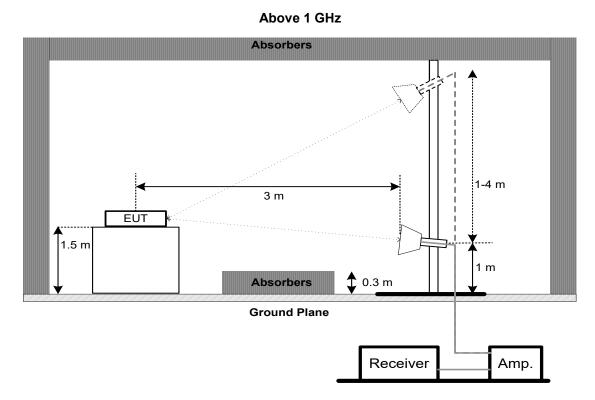
## 9 kHz to 30 MHz



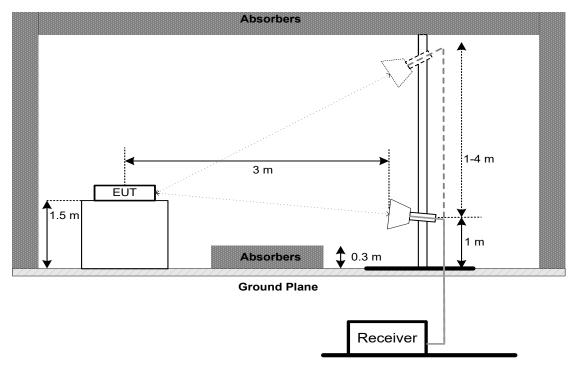
## 30 MHz to 1 GHz







Above 1 GHz Band edge





## 4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 3.5 unless otherwise a special operating condition is specified in the follows during the testing.

## 4.6 TEST RESULTS - 9 KHZ to 30 MHZ

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.

## 4.7 TEST RESULTS - 30 MHz TO 1000 MHz

Please refer to the APPENDIX C.

## 4.8 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.



## **5. BANDWIDTH TEST**

## 5.1 LIMIT

FCC Part15, Subpart E (15.407)					
Section Test Item Limit Frequency Ra					
15.407(a) 15.407(e)	26 dB Bandwidth	-	5150-5250		
	26 dB Bandwidth	-	5250-5350		
	26 dB Bandwidth	-	5470-5725		
	6 dB Bandwidth	Minimum 500 kHz	5725-5850		

## **5.2 TEST PROCEDURE**

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

b. a. Spectrum Setting: For UNII-1. UNII-2A, UNII-2C:

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> 26 dB Bandwidth	
RBW	300 kHz (Bandwidth 20 MHz)	
NDW	1 MHz (Bandwidth 40 MHz and 80 MHz)	
VBW	1 MHz (Bandwidth 20 MHz)	
VDVV	3 MHz (Bandwidth 40 MHz and 80 MHz)	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

## For UNII-3:

1 01 01111-3.	
Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	6 dB Bandwidth
RBW	100 kHz
VBW	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

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

## **5.3 TEST PROCEDURE**

No deviation.



## **5.4 TEST SETUP**

EUT	SPECTRUM	
	ANALYZER	

## **5.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

## **5.6 TEST RESULTS**

Please refer to the APPENDIX E.



## **6. MAXIMUM OUTPUT POWER TEST**

## **6.1 LIMIT**

FCC Part15, Subpart E (15.407)					
Section Test Item Limit Frequency (MHz					
15.407(a)	Conducted Output Power	AP device: 1 Watt (30 dBm) Client device: 250 mW (24 dBm)	5150-5250		
		250 mW (24 dBm)	5250-5350		
		250 mW (24 dBm)	5470-5725		
		1 Watt (30dBm)	5725-5850		

#### Note:

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



## **6.2 TEST PROCEDURE**

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. Test test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

## **6.3 DEVIATION FROM STANDARD**

No deviation.

## **6.4 TEST SETUP**

EUT Power Meter

## **6.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

## **6.6 TEST RESULTS**

Please refer to the APPENDIX F.



## 7. POWER SPECTRAL DENSITY TEST

#### **7.1 LIMIT**

FCC Part15, Subpart E (15.407)						
Section Test Item Limit Frequency Range (MHz)						
15.407(a)	Power Spectral Density	AP device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250			
		11 dBm/MHz	5250-5350			
		11 dBm/MHz	5470-5725			
		30 dBm/500 kHz	5725-5850			

#### 7.2 TEST PROCEDURE

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

b. Spectrum Setting

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Encompass the entire emissions bandwidth (EBW) of the signal
RBW	= 1 MHz.
VBW	≥ 3 MHz.
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 v02r01, section II.F.5., it is acceptable to set RBW at 1 MHz and VBW at 3 MHz if the spectrum analyzer does not have 500 kHz RBW.
- 2. The value measured with RBW=1 MHz is to be added with 10log(500 kHz/1 MHz) which is -3 dB. For example, if the measured value is +10dBm using RBW=1 MHz (that is +10 dBm/MHz), then the converted value will be +7dBm/500kHz.

## 7.3 DEVIATION FROM STANDARD

No deviation.



## 7.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

## 7.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 7.6 TEST RESULTS

Please refer to the APPENDIX G.



## **8. MEASUREMENT INSTRUMENTS LIST**

	AC Power Line Conducted Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Line Impedance Stabilisation Network	Schwarzbeck	NNLK 8121	8121-822	Mar. 21, 2021		
2	TWO-LINE V-NETWORK	R&S	ENV216	101340	Sep. 01, 2020		
3	EMI Test Receiver	R&S	ESCI	100082	Mar. 28, 2021		
4	50Ω coaxial switch	Anritsu	MP59B	6201750902	Mar. 21, 2021		
5	Cable	10m	EMCRG400-BM-NM- 10000	170628	Mar. 21, 2021		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		

	Radiated Emissions - 9 kHz to 30 MHz					
Item	em Kind of Equipment Manufacturer Type No. Serial No. Calibrated until					
1	Loop Antenna	EMCI	EMCI LPA600	275	Mar. 28, 2021	
2	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 28, 2021	
3	Measurement Software	Farad	EZ-EMC Ver.BTL-2ANT-1	N/A	N/A	

	Radiated Emissions - 30 MHz to 1 GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	TRILOG Broadband Antenna	Schwarzbeck	VULB 9168	719	Mar. 28, 2021		
2	Pre-Amplifier	emci	EMC9135	980400	Mar. 21, 2021		
3	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 21, 2021		
4	Attenuator	emci	EMCI-N-6-06	AT-N0644	Mar. 21, 2021		
5	Cable	7m	EMC104-SM-SM-700 0	170330	Apr. 16, 2021		
6	Cable	1m	EMC104-SM-SM-100 0	170331	Apr. 16, 2021		
7	Cable	3.5m	EMC104-SM-NM-350 0	170621	Apr. 16, 2021		
8	Measurement Software	Farad	EZ-EMC Ver.BTL-2ANT-1	N/A	N/A		



	Radiated Emissions - Above 1 GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	9120D	00206960	Mar. 28, 2021	
2	Pre-Amplifier	emci	EMC012645SE	980421	Mar. 28, 2021	
3	EXA Spectrum Analyzer	Keysight	N9010A	MY56480545	Mar. 21, 2021	
4	Test Cable	emci	EMC104-SM-SM-7 000	170330	Apr. 16, 2021	
5	Test Cable	emci	EMC104-SM-SM-1 000	170331	Apr. 16, 2021	
6	Test Cable	emci	EMC104-SM-NM-3 500	170621	Apr. 16, 2021	
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	
8	MXE EMI Receiver	Keysight	N9038A	MY57150106	Mar. 28, 2021	
9	Antenna	Schwarzbeck	BBHA9170	9170-651	Apr. 02, 2021	
10	Pre-Amplifier	EMC INSTRUMENT	EMC184045B	980265	Mar. 21, 2021	
11	EXA Spectrum Analyzer	Keysight	N9010A	MY56480579	Mar. 21, 2021	
12	Test Cable	emci	EMC102-SM-SM-8 00	170335	Apr. 13, 2021	
13	Test Cable	emci	EMC102-KM-KM-2 500	170627	Apr. 13, 2021	

Bandwidth								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 21, 2021			

Maximum Output Power								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Peak Power Analyze	Keysight	8990B	MY51000507	Mar. 21, 2021			
2	Wideband Power Sensor	Keysight	N9123A	MY58310003	Mar. 21, 2021			

Power Spectral Density								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until			
1	Spectrum Analyzer	R&S	FSP40	100626	Mar. 21, 2021			

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

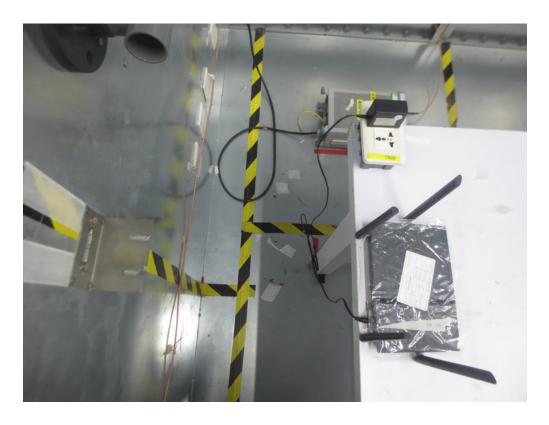
All calibration period of equipment list is one year.



## 9. EUT TEST PHOTOS

# **Conducted Emissions Test Photos**

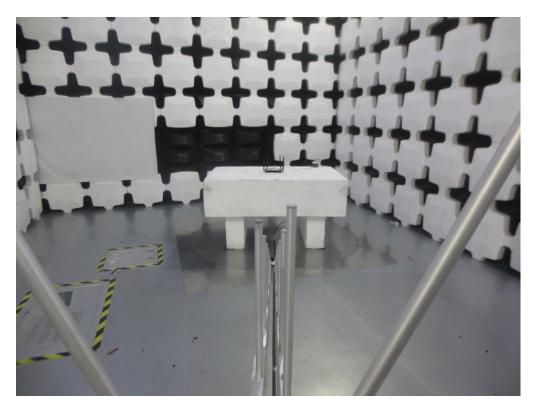


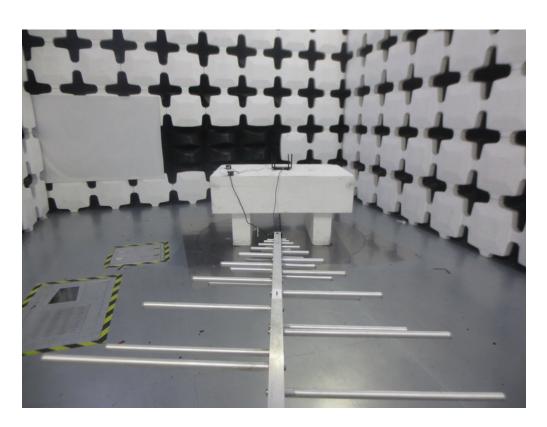




## **Radiated Emissions Test Photos**

30 MHz to 1 GHz

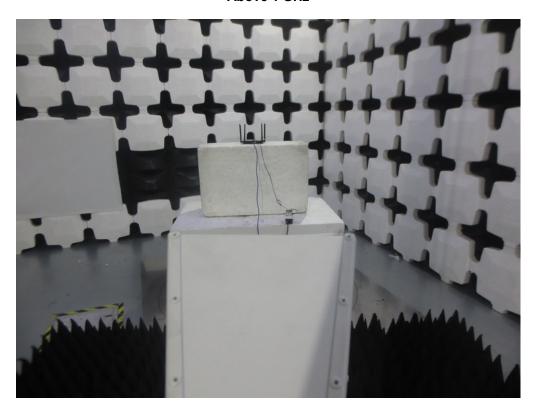






## **Radiated Emissions Test Photos**

## Above 1 GHz



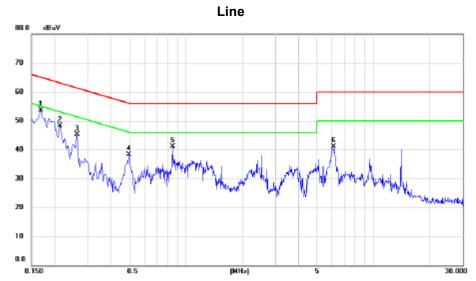




# **APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS**



Test Mode: TX AC80 MODE CHANNEL 155

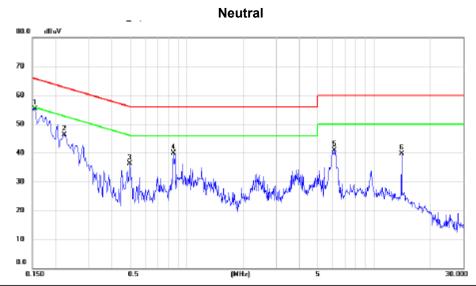


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin			
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	*	0.1680	44.00	9.74	53.74	65.06	-11.32	peak		
2		0.2130	38.46	9.78	48.24	63.09	-14.85	peak		
3		0.2625	35.53	9.81	45.34	61.35	-16.01	peak		
4		0.4964	28.36	9.90	38.26	56.06	-17.80	peak		
5		0.8474	31.25	9.79	41.04	56.00	-14.96	peak		
6		6.1260	31.14	10.02	41.16	60.00	-18.84	peak		

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX AC80 MODE CHANNEL 155



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1544	45.78	9.61	55.39	65.76	-10.37	peak	
2	0.2220	36.71	9.63	46.34	62.74	-16.40	peak	
3	0.4964	26.62	9.69	36.31	56.06	-19.75	peak	
4	0.8474	30.23	9.71	39.94	56.00	-16.06	peak	
5	6.1485	30.99	10.01	41.00	60.00	-19.00	peak	
6 1	4.0010	29.61	10.15	39.76	60.00	-20.24	peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



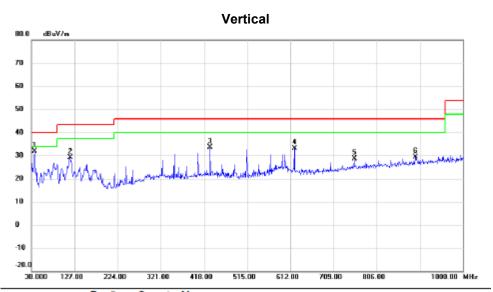
## **APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ** Note: The measured value have enough margin over 20dB than the limit, therefore they are not reported.



# **APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1 GHZ**



Test Mode: TX AC80 MODE CHANNEL 155

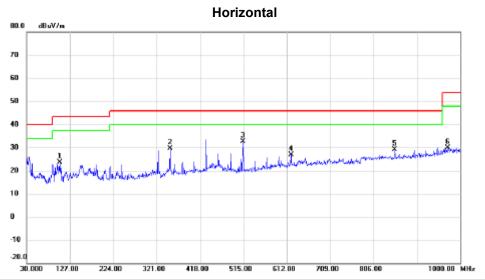


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	36.7900	49.58	-17.60	31.98	40.00	-8.02	peak	
2		117.3000	47.71	-18.48	29.23	43.50	-14.27	peak	
3		432.0650	45.39	-11.65	33.74	46.00	-12.26	peak	
4		621.2150	40.90	-7.81	33.09	46.00	-12.91	peak	
5		756.0450	34.32	-5.74	28.58	46.00	-17.42	peak	
6		893.3000	33.80	-4.47	29.33	46.00	-16.67	peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Test Mode: TX AC80 MODE CHANNEL 155



No.	Mk	. Freq.	Reading Level	Correct Factor		Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		103.7200	43.71	-20.17	23.54	43.50	-19.96	peak	
2		351.0700	43.35	-13.72	29.63	46.00	-16.37	peak	
3	×	514.5150	42.75	-10.08	32.67	46.00	-13.33	peak	
4		621.2150	34.59	-7.81	26.78	46.00	-19.22	peak	
5		853.5300	33.94	-4.87	29.07	46.00	-16.93	peak	
6		971.8700	33.35	-3.43	29.92	54.00	-24.08	peak	

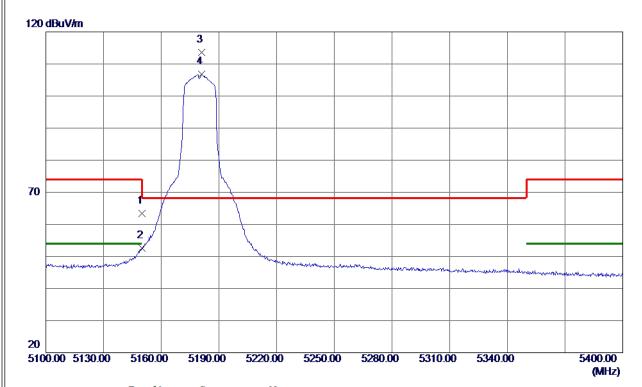
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



# **APPENDIX D - RADIATED EMISSION - ABOVE 1000 MHZ**



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5180 MHz

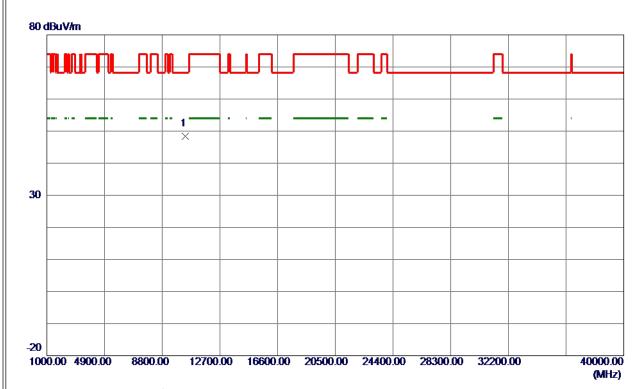


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	25. 60	37.88	63.48	74.00	-10.52	Peak	
2	5150.0000	14.80	37.88	52. 68	54.00	-1. 32	AVG	
3 *	5181.0000	75. 85	37.75	113.60	68.30	45.30	Peak	No limit
4	5181.0000	69. 08	37.75	106.83	999.00	-892. 17	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5180 MHz

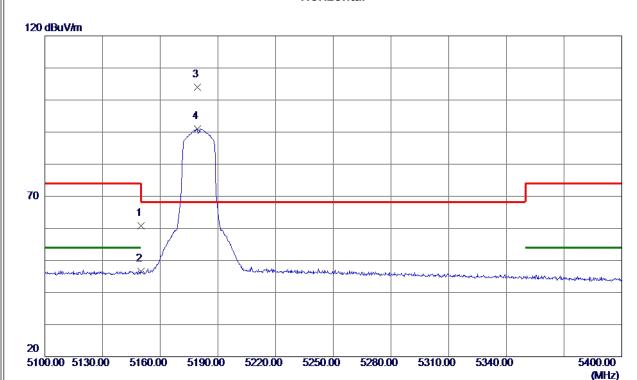


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360. 0000	46.69	1.65	48. 34	68.30	-19.96	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	Orthogonal Axis	x
Ī	Test Mode	UNII-1_TX A Mode 5180 MHz

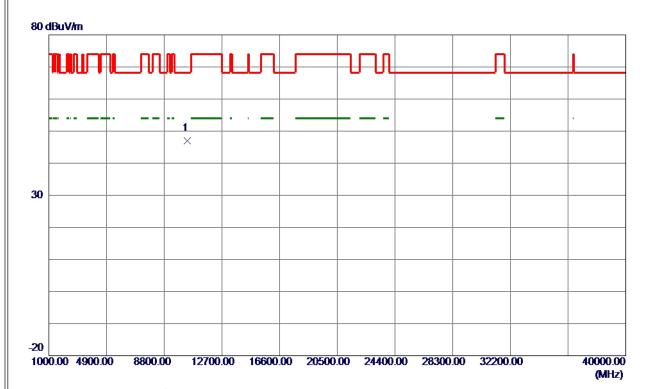


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	22.88	37.88	60.76	74.00	-13. 24	Peak	
2	5150.0000	8. 65	37.88	46. 53	54.00	-7.47	AVG	
3 *	5179. 2000	66. 22	37.76	103. 98	68.30	35. 68	Peak	No limit
4	5179. 2000	53. 22	37.76	90. 98	999.00	<b>-908.02</b>	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.
  (2) Margin Level = Measurement Value Limit Value.



	Orthogonal Axis	x
Ī	Test Mode	UNII-1_TX A Mode 5180 MHz

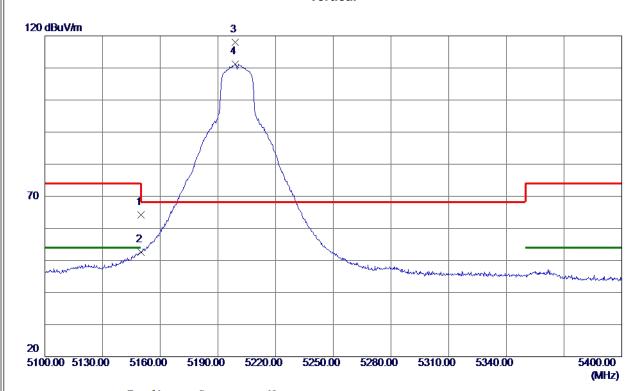


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10360.0000	45.40	1.65	47.05	68.30	-21. 25	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5200 MHz

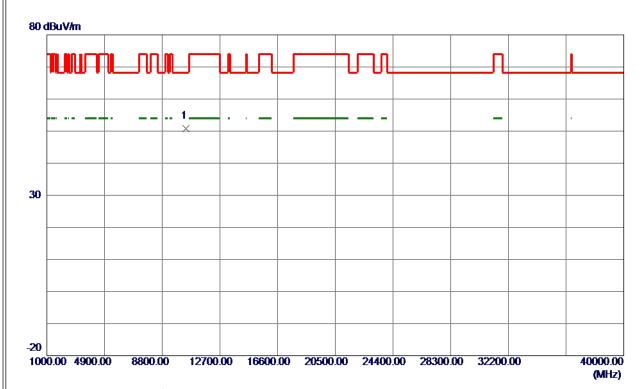


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	26. 34	37.88	64. 22	74.00	-9. 78	Peak	
2	5150.0000	14.79	37.88	52. 67	54.00	-1.33	AVG	
3 *	5199.0000	80. 37	37.68	118.05	68.30	49.75	Peak	No limit
4	5199.0000	73. 51	37.68	111. 19	999.00	-887.81	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5200 MHz

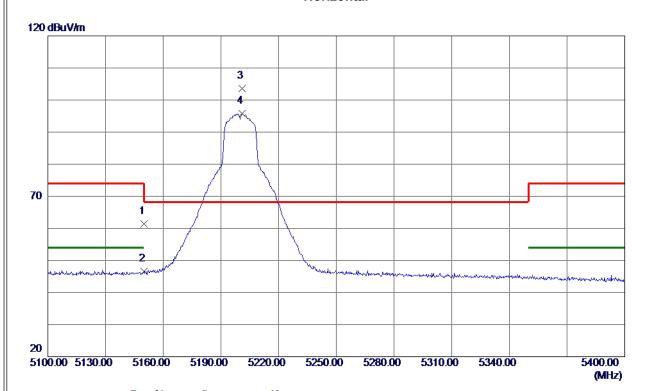


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10399. 1580	49.09	1.72	50.81	68. 30	-17.49	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5200 MHz

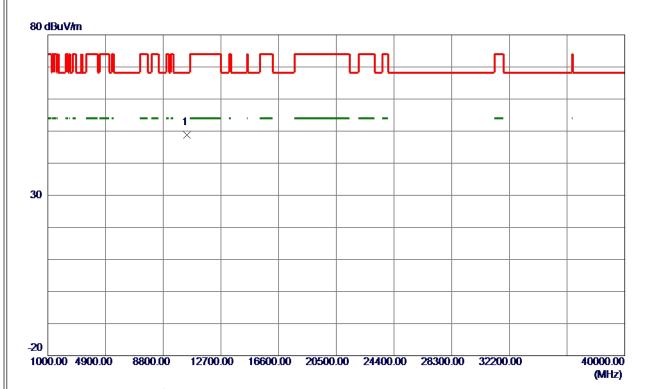


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	23. 47	37.88	61.35	74.00	-12.65	Peak	
2	5150.0000	8. 70	37.88	46. 58	54.00	-7.42	AVG	
3 *	5201. 1000	65.83	37.68	103. 51	68.30	35. 21	Peak	No limit
4	5201. 1000	58. 06	37.68	95. 74	999.00	-903. 26	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1 TX A Mode 5200 MHz

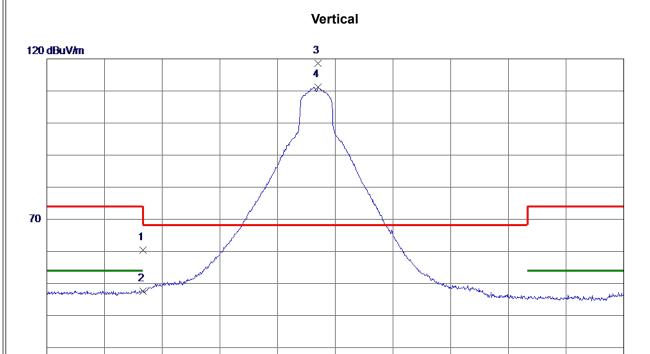


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400.8320	47. 16	1.72	48.88	68. 30	-19.42	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	22. 51	37.88	60. 39	74.00	-13.61	Peak	
2	5150.0000	9. 63	37.88	47.51	54.00	-6. 49	AVG	
3 *	5241.0000	80. 90	37.62	118. 52	68.30	50. 22	Peak	No limit
4	5241.0000	73. 56	37.62	111. 18	999.00	-887.82	AVG	No limit

5280.00

5310.00

5340.00

5400.00 (MHz)

5160.00 5190.00 5220.00 5250.00

## REMARKS:

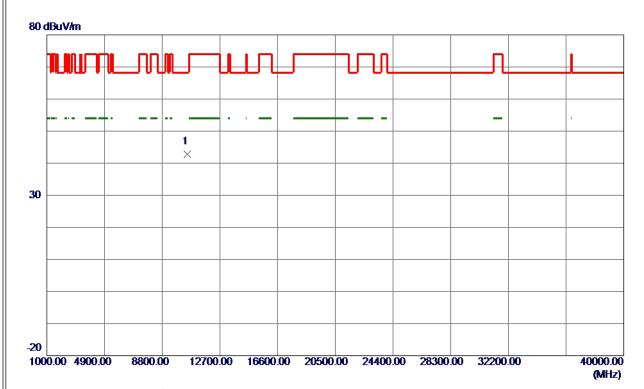
20

5100.00 5130.00

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5240 MHz

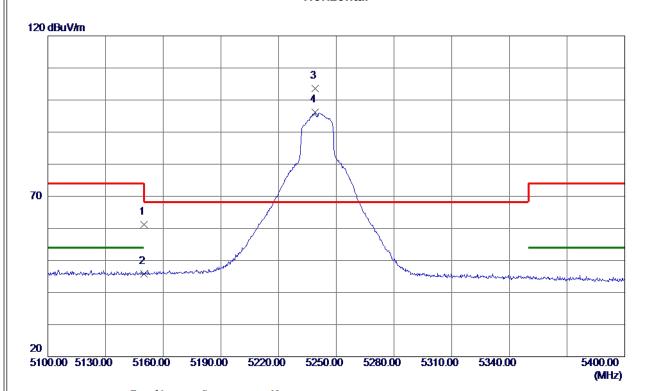


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10480.0900	41.05	1.80	42.85	68.30	-25.45	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5240 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	23. 24	37.88	61. 12	74.00	-12.88	Peak	
2	5150.0000	7. 91	37. 88	45. 79	54.00	-8. 21	AVG	
3 *	5239.0500	66. 05	37.62	103.67	68.30	35. 37	Peak	No limit
4	5239.0500	58. <b>50</b>	37. 62	96. 12	999.00	-902.88	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX A Mode 5240 MHz



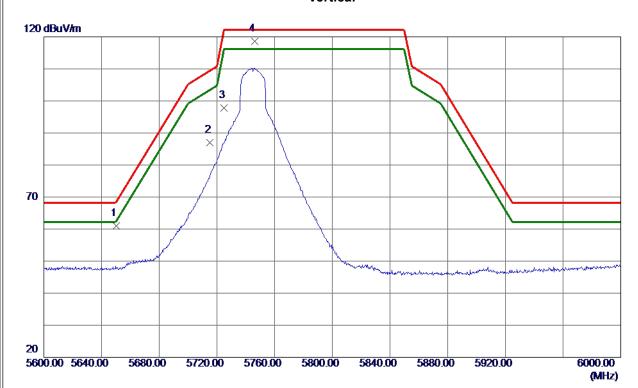
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10472. 1400	49.00	1.79	50. 79	68.30	-17.51	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	X
Test Mode	UNII-3_TX A Mode 5745 MHz



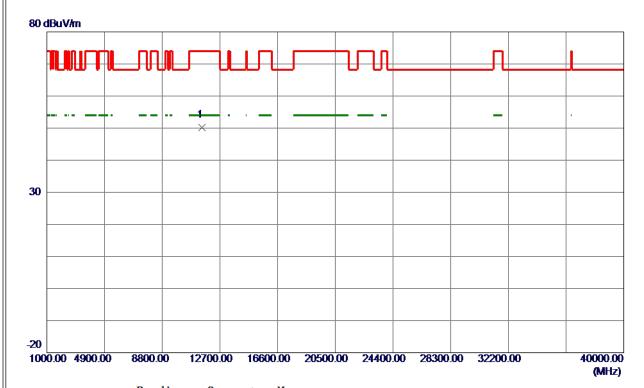


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5650.0000	22. 56	38. 37	60. 93	68. 20	-7. 27	Peak	
2	5715.0000	48.48	38. 46	86. 94	109.40	-22.46	Peak	
3	5725.0000	59. 24	38. 50	97.74	122. 20	-24.46	Peak	
4 *	5746. 0000	79. 97	38. 58	118. 55	122. 20	-3.65	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5745 MHz

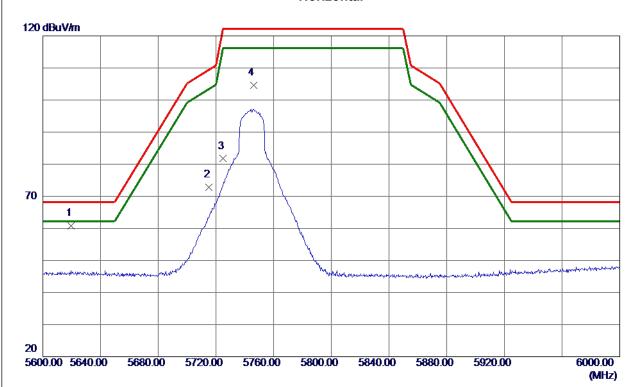


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11481. 9400	48.00	2. 20	50. 20	74.00	-23.80	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



	x
Test Mode	UNII-3_TX A Mode 5745 MHz

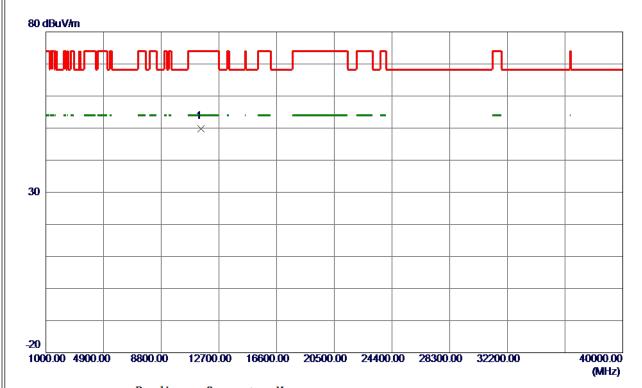


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5619. 4000	22. 48	38. 35	60.83	68. 20	-7. 37	Peak	
2	5715. 0000	34. 30	38. 46	72.76	109.40	-36. 64	Peak	
3	5725.0000	43. 20	38. 50	81.70	122. 20	-40.50	Peak	
4	5746. 0000	66.06	38. 58	104.64	122. 20	-17. 56	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5745 MHz

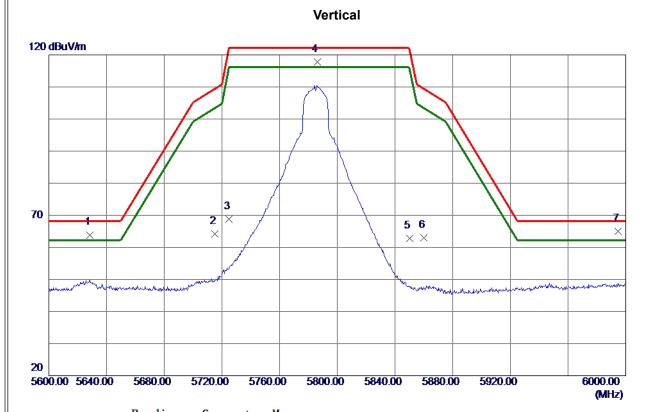


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11490.0679	47. 52	2. 21	49.73	74.00	-24.27	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5785 MHz

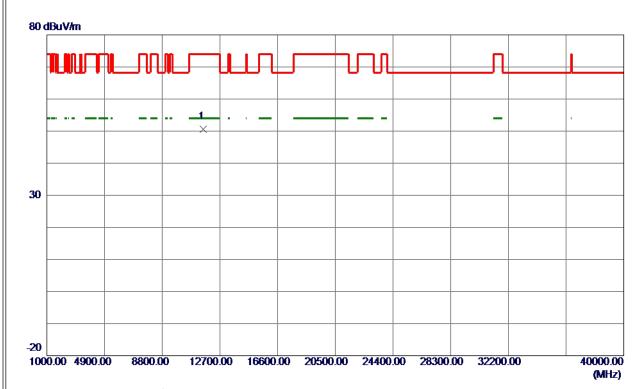


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5628. 4000	25. 54	38. 36	63. 90	68. 20	-4.30	Peak	
2	5715. 0000	25. 73	38. 46	64. 19	109.40	-45. 21	Peak	
3	5725. 0000	30. 36	38. 50	68.86	122. 20	-53. 34	Peak	
4	5786. 0000	79.06	38. 73	117.79	122. 20	-4.41	Peak	
5	5850.0000	23. 91	38. 91	62.82	122. 20	-59. 38	Peak	
6	5860.0000	23. 97	38. 94	62. 91	109.40	-46. 49	Peak	
7 *	5994.6000	25.82	39. 24	65.06	68. 20	-3. 14	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5785 MHz

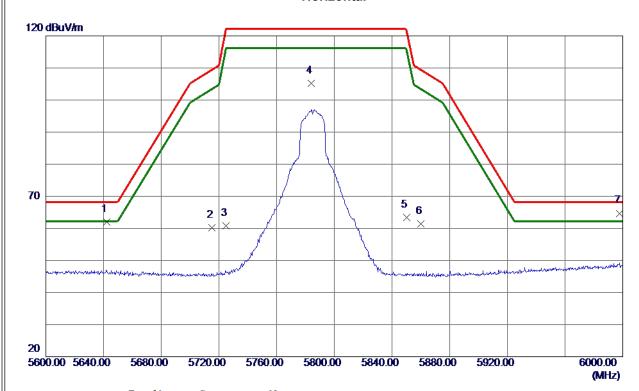


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11575. 9320	48. 30	2. 28	50. 58	74.00	-23.42	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5785 MHz

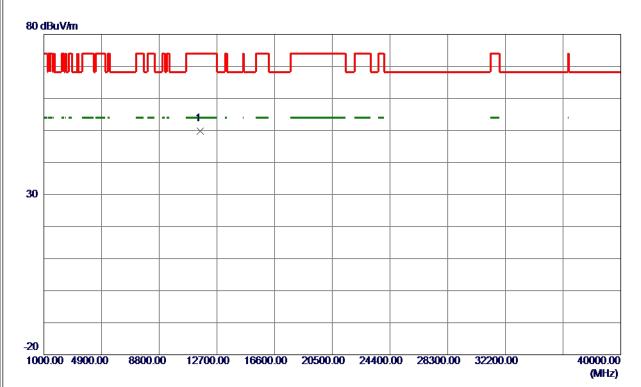


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5642. 0000	23.72	38. 37	62. 09	68. 20	-6. 11	Peak	
2	5715. 0000	21.73	38. 46	60. 19	109.40	-49. 21	Peak	
3	5725. 0000	22. 34	38. 50	60.84	122. 20	-61.36	Peak	
4	5784. 2000	66. 46	38.72	105. 18	122. 20	-17.02	Peak	
5	5850. 0000	24. 56	38. 91	63. 47	122. 20	-58. 73	Peak	
6	5860. 0000	22. 55	38. 94	61. 49	109.40	-47.91	Peak	
7 *	5997. 6000	25. 45	39. 25	64.70	68. 20	-3. 50	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5785 MHz



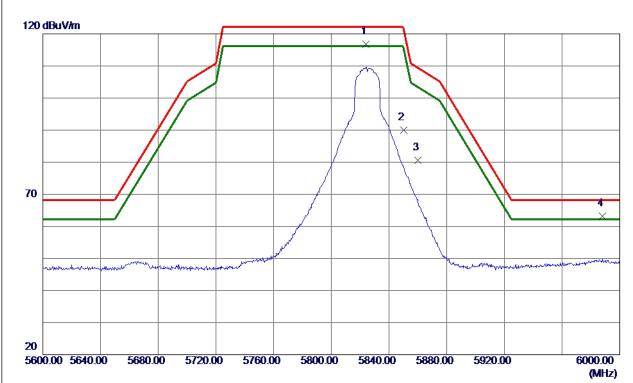
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11572. 2560	47.55	2. 28	49.83	74.00	-24. 17	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Ш		
		X
	Test Mode	UNII-3_TX A Mode 5825 MHz



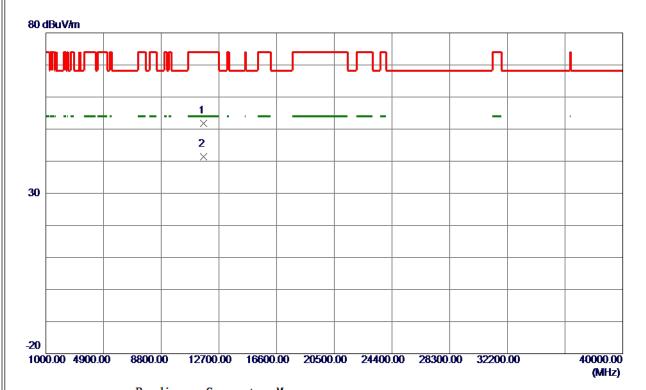


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5824.0000	<b>78.05</b>	38.84	116.89	122. 20	-5. 31	Peak	
2	5850.0000	51.06	38. 91	89. 97	122. 20	-32. 23	Peak	
3	5860.0000	41.69	38. 94	80.63	109.40	-28.77	Peak	
4 *	5987.8000	24.00	39. 23	63. 23	68. 20	-4.97	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5825 MHz

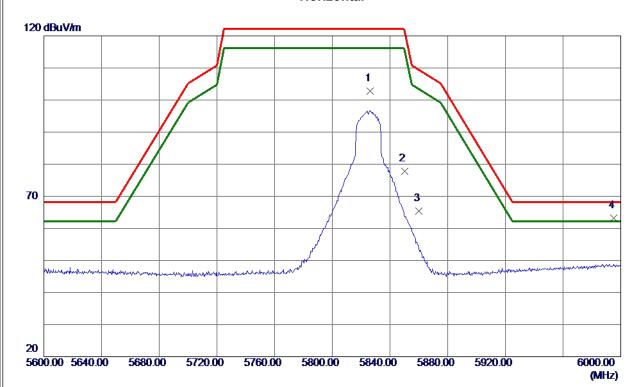


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11645.6860	49. 59	2. 12	51.71	74.00	-22. 29	Peak	
2 *	11652. 6920	39. 40	2. 09	41.49	54.00	-12.51	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5825 MHz

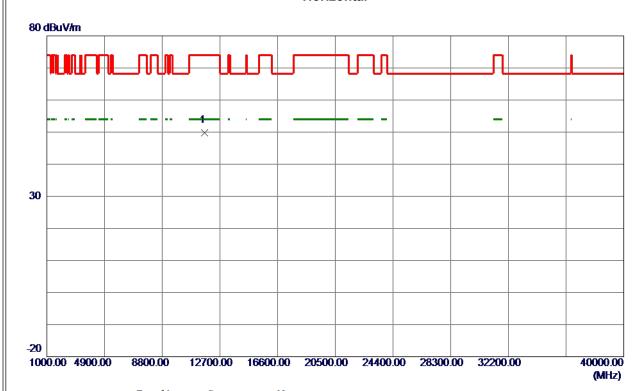


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5826. 4000	63. 99	38.85	102.84	122. 20	-19. 36	Peak	
2	5850.0000	38. 97	38. 91	77.88	122. 20	-44. 32	Peak	
3	5860.0000	26. 43	38. 94	65. 37	109.40	-44.03	Peak	
4 *	5995. 2000	23. 96	39. 24	63. 20	68. 20	-5.00	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX A Mode 5825 MHz

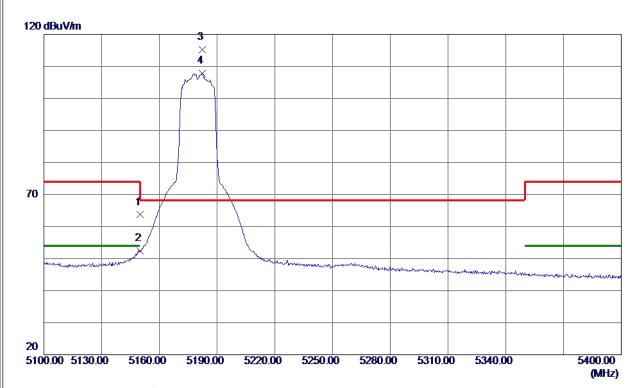


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11655. 7660	47.81	2.08	49.89	74.00	-24.11	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

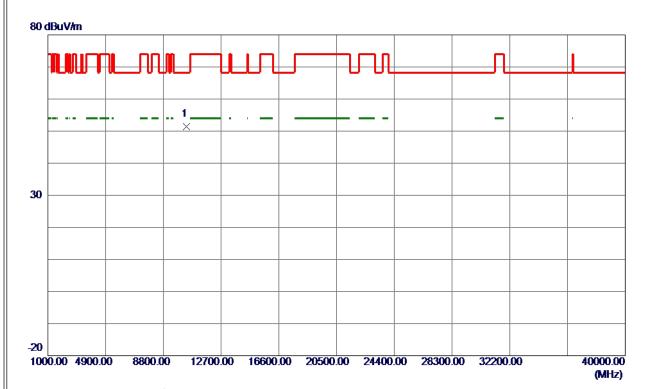


No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	25. 82	37.88	63.70	74.00	-10. 30	Peak	
2	5150.0000	14. 56	37.88	52.44	54.00	-1. 56	AVG	
3 *	5182. 2000	77. 49	37.75	115. 24	68. 30	46. 94	Peak	No limit
4	5182. 2000	70.02	37.75	107.77	999.00	-891. 23	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

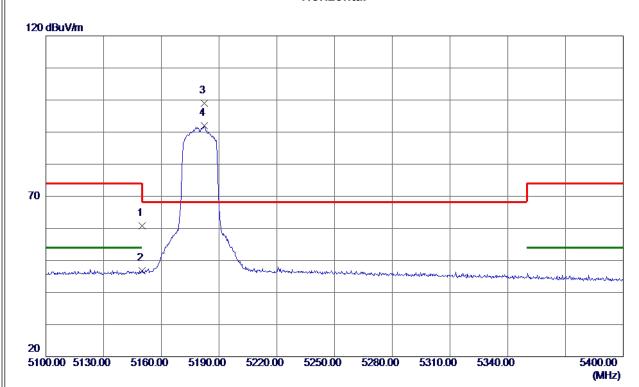


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10363. 1220	49.73	1.65	51. 38	68. 30	-16. 92	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz

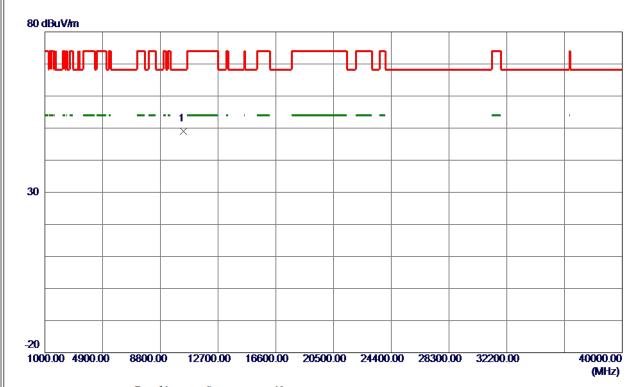


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	22. 84	37.88	60.72	74.00	-13. 28	Peak	
2	5150.0000	8. 96	37.88	46.84	54.00	-7. 16	AVG	
3 *	5182. 3500	61. 22	37.75	98. 97	68.30	30. 67	Peak	No limit
4	5182. 3500	54. 22	37.75	91.97	999.00	-907.03	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5180 MHz



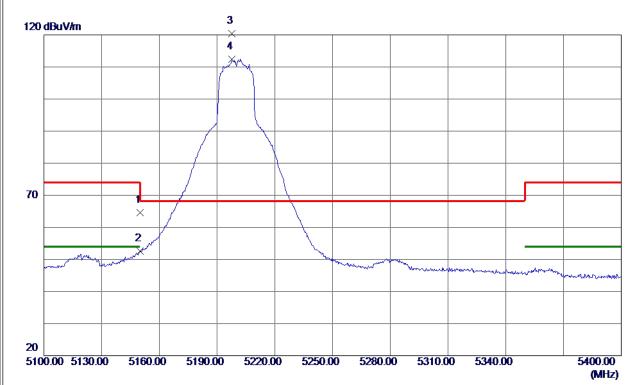
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10363. 7880	47.43	1.65	49.08	68. 30	-19. 22	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz





No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	26. 81	37.88	64.69	74.00	-9. 31	Peak	
2	5150.0000	14.72	37.88	52.60	54.00	-1.40	AVG	
3 *	5197.8000	82. 76	37. 69	120. 45	68. 30	52. 15	Peak	No limit
4	5197.8000	74.68	37. 69	112. 37	999.00	-886. 63	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

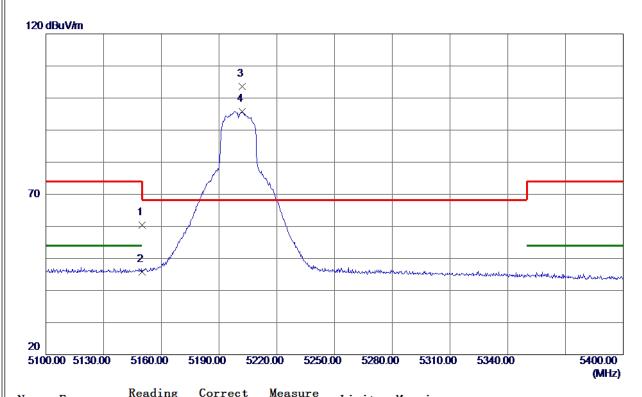


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10395. 0960	52. 16	1.71	53. 87	68. 30	-14.43	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

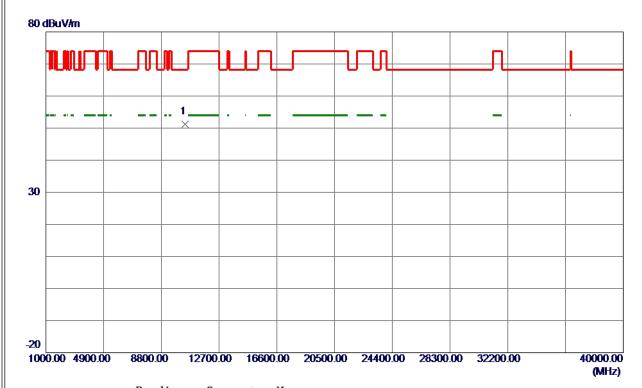


No.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	22. 53	37.88	60.41	74.00	-13. 59	Peak	
2	5150.0000	7. 90	37.88	45. 78	54.00	-8. 22	AVG	
3 *	5202.0000	65.84	37.68	103. 52	68.30	35. 22	Peak	No limit
4	5202.0000	58. 10	37.68	95. 78	999.00	-903. 22	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5200 MHz

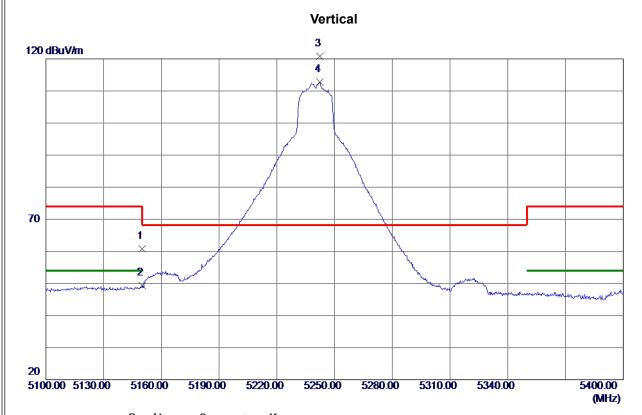


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10400. 0100	49. 57	1.72	51. 29	68.30	-17.01	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

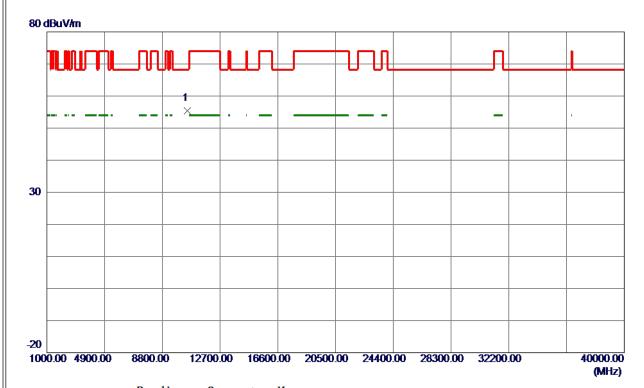


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	22. 85	37.88	60.73	74.00	-13. 27	Peak	
2	5150.0000	11. 56	37.88	49.44	54.00	<b>-4.56</b>	AVG	
3 *	5242. 3500	83. 12	37. 62	120.74	68.30	52.44	Peak	No limit
4	5242. 3500	75. 10	37. 62	112.72	999.00	-886. 28	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

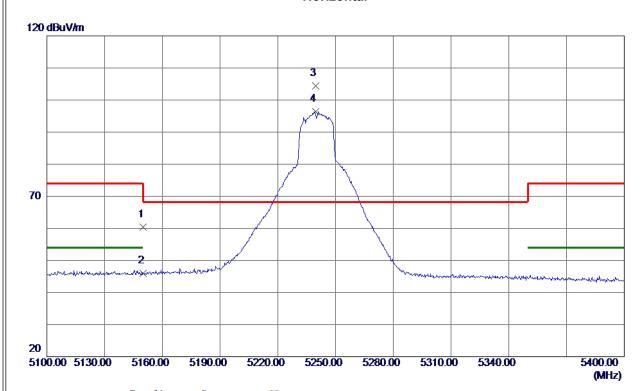


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10477. 0940	53. 63	1.80	55. 43	68. 30	-12.87	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

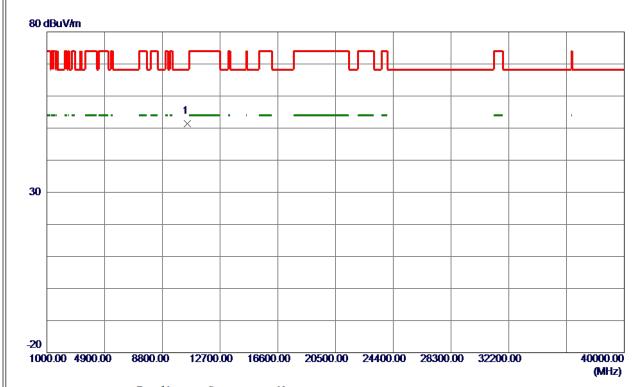


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	22. 46	37. 88	60. 34	74.00	-13.66	Peak	
2	5150.0000	8. 14	37.88	46.02	54.00	-7. 98	AVG	
3 *	5239. 5000	66. 70	37. 62	104. 32	68.30	36. 02	Peak	No limit
4	5239. 5000	58. 74	37. 62	96. 36	999.00	-902.64	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT20) Mode 5240 MHz

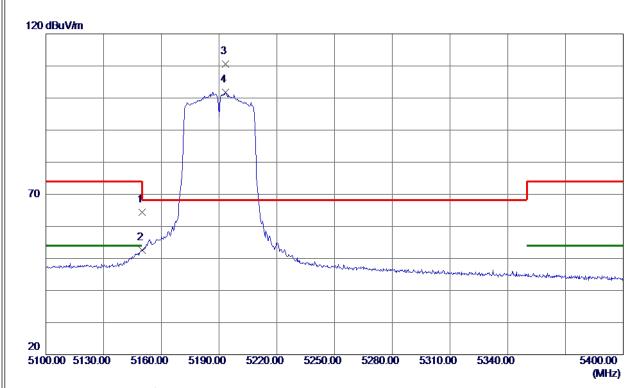


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10476. 8820	49.61	1.80	51.41	68. 30	-16.89	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	26. 49	37.88	64. 37	74.00	-9.63	Peak	
2	5150.0000	14.63	37.88	52. 51	54.00	-1.49	AVG	
3 *	5193. 4500	72.88	37.71	110. 59	68. 30	42. 29	Peak	No limit
4	5193. 4500	64.07	37.71	101.78	999.00	-897. 22	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

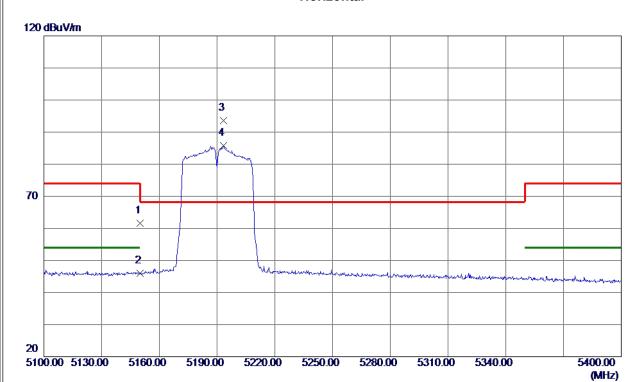


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10381.6600	47. 38	1. 69	49.07	68. 30	-19. 23	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	23.74	37.88	61.62	74.00	-12. 38	Peak	
2	5150.0000	8. 09	37.88	45. 97	54.00	-8. 03	AVG	
3 *	5193. 4500	55. 81	37.71	93. 52	68.30	25. 22	Peak	No limit
4	5193. 4500	48. 16	37.71	85. 87	999.00	-913. 13	AVG	No limit
	02001 2000							

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5190 MHz

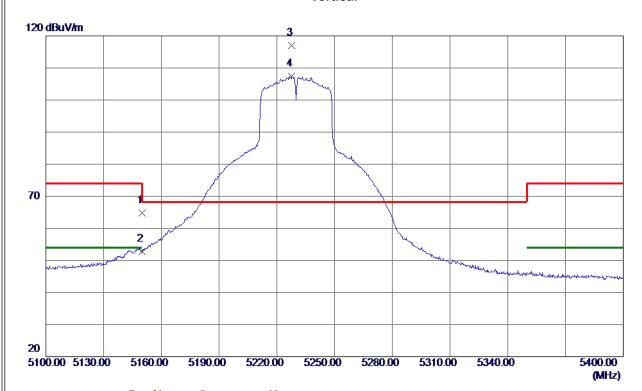


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10367. 1800	47. 36	1.66	49.02	68. 30	-19. 28	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	26. 90	37.88	64.78	74.00	-9. 22	Peak	
2	5150.0000	14.83	37.88	52.71	54.00	-1. 29	AVG	
3 *	5227.8000	79. 28	37.64	116. 92	68.30	48.62	Peak	No limit
4	5227.8000	69. 77	37.64	107.41	999.00	-891. 59	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz

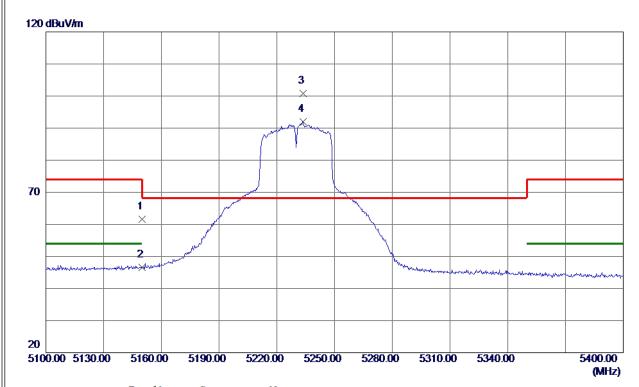


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10456. 6040	51. 52	1. 78	53. 30	68. 30	-15. 00	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT40) Mode 5230 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	23. 67	37.88	61. 55	74.00	-12. 45	Peak	
2	5150.0000	8. 66	37.88	46. 54	54.00	-7.46	AVG	
3 *	5233.6500	63. 19	37.63	100.82	68.30	32. 52	Peak	No limit
4	5233.6500	54. 30	37.63	91. 93	999.00	-907.07	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	X
Test Mode	UNII-1 TX AC (VHT40) Mode 5230 MHz

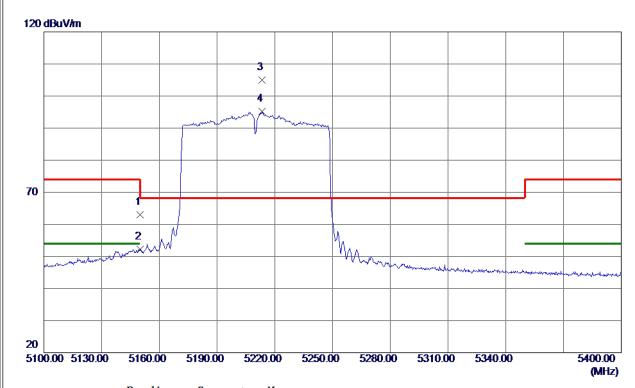


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10461.7600	47.71	1. 78	49. 49	68.30	-18.81	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.0000	<b>25. 08</b>	37.88	62. 96	74.00	-11.04	Peak	
2	5150.0000	14.31	37.88	52. 19	54.00	-1.81	AVG	
3 *	5213. 4000	67. 37	37. 66	105. 03	68. 30	36. 73	Peak	No limit
4	5213. 4000	57.46	37.66	95. 12	999.00	-903.88	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10450. 2320	47. 33	1.77	49. 10	68. 30	-19. 20	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5122. 5000	23. 68	37. 98	61.66	74.00	-12. 34	Peak	
2	5122. 5000	9. 39	37. 98	47.37	54.00	-6. 63	AVG	
3 *	5213. 4000	51.05	37. 66	88.71	68. 30	20.41	Peak	No limit
4	5213.4000	41.08	37.66	78. 74	999.00	-920. 26	AVG	No limit

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-1_TX AC (VHT80) Mode 5210 MHz

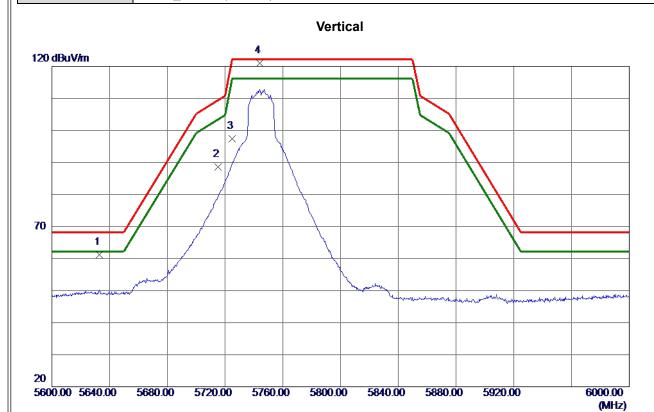


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	10433. 3920	47.00	1. 75	48.75	68. 30	-19. 55	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5633. 0000	22. 91	38. 36	61. 27	68. 20	-6. 93	Peak	
2	5715. 0000	50. 11	38. 46	88. 57	109.40	-20.83	Peak	
3	5725. 0000	58. 96	38. 50	97.46	122. 20	-24.74	Peak	
4 *	5744. 0000	82. 33	38. 57	120. 90	122. 20	-1.30	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

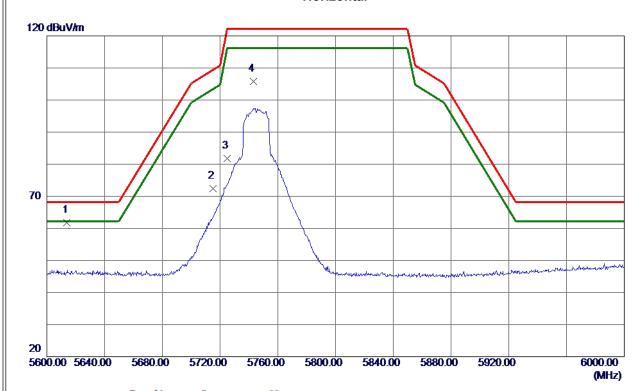


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11488. 9180	39. 81	2. 21	42.02	54.00	-11. 98	AVG	
2	11492. 9680	50. 73	2. 21	52. 94	74.00	-21.06	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

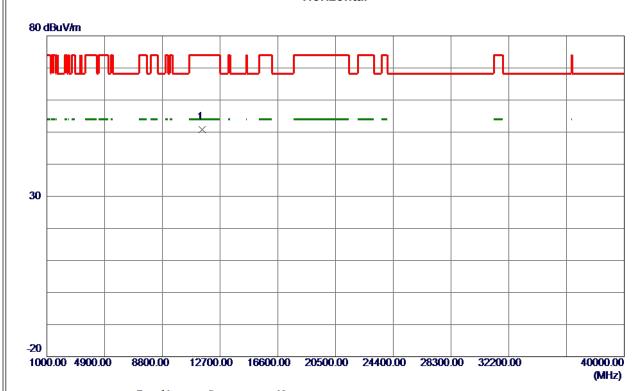


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	5614.0000	23. 48	38. 35	61.83	68. 20	-6. 37	Peak	
2	5715. 0000	33.88	38. 46	72. 34	109.40	-37.06	Peak	
3	5725. 0000	43. 34	38. 50	81.84	122. 20	-40. 36	Peak	
4	5743. 0000	67. 31	38. 57	105.88	122. 20	-16. 32	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5745 MHz

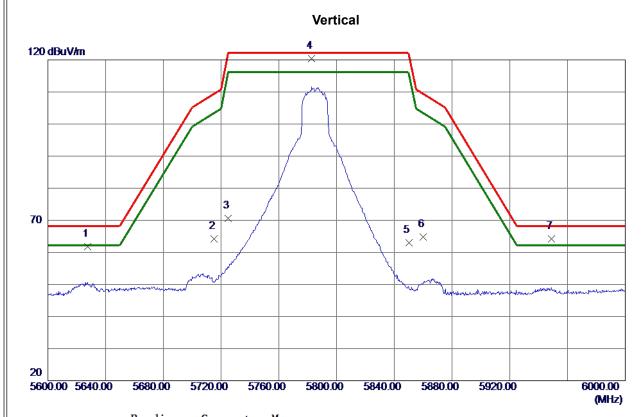


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11481. 9640	48. 52	2. 20	50.72	74.00	-23. 28	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3 TX AC (VHT20) Mode 5785 MHz

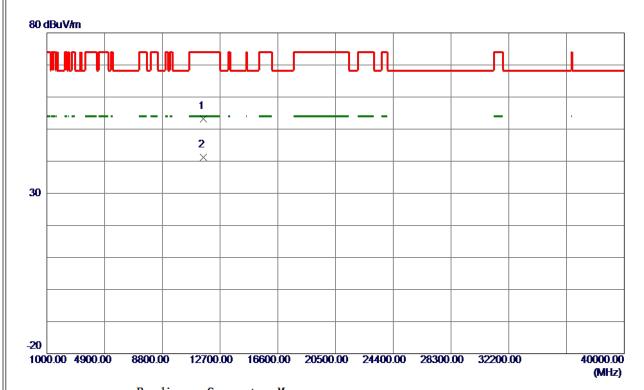


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5627.4000	23. 35	38. 36	61.71	68. 20	-6. 49	Peak	
2	5715.0000	25. 75	38. 46	64. 21	109.40	-45. 19	Peak	
3	5725. 0000	32. 08	38. 50	70. 58	122. 20	-51.62	Peak	
4 *	5782.8000	81. 61	38.72	120. 33	122. 20	-1.87	Peak	
5	5850.0000	24.07	38. 91	62. 98	122. 20	-59. 22	Peak	
6	5860.0000	25. 84	38. 94	64.78	109.40	-44.62	Peak	
7	5948. 8000	24. 99	39. 15	64. 14	68. 20	-4.06	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

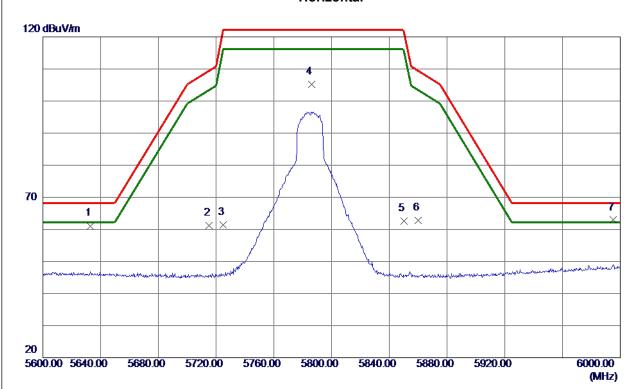


No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	11572. 0980	50. 90	2. 28	53. 18	74.00	-20.82	Peak	
2 *	11573. 2480	38. 93	2. 28	41. 21	54.00	-12.79	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz

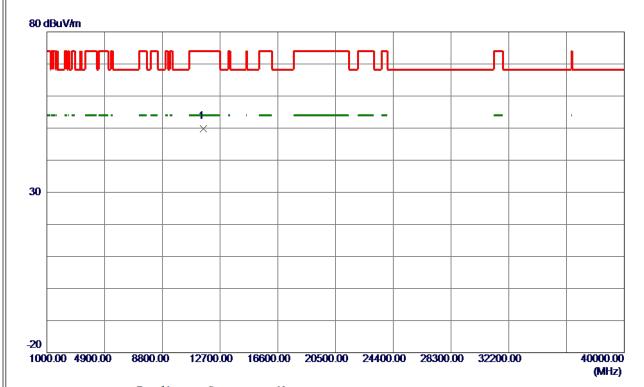


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5633. 0000	22.74	38. 36	61. 10	68. 20	-7. 10	Peak	
2	5715. 0000	22. 78	38. 46	61. 24	109.40	-48. 16	Peak	
3	5725. 0000	22. 97	38. 50	61. 47	122. 20	-60. 73	Peak	
4	5786. 0000	66. 55	38. 73	105. 28	122. 20	-16. 92	Peak	
5	5850.0000	23.64	38. 91	62. 55	122. 20	-59.65	Peak	
6	5860.0000	23. 81	38. 94	62. 75	109.40	-46.65	Peak	
7 *	5995. 0000	23. 66	39. 24	62. 90	68. 20	-5. 30	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.



Orthogonal Axis	x
Test Mode	UNII-3_TX AC (VHT20) Mode 5785 MHz



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	11569. 3720	47.53	2. 27	49.80	74.00	-24. 20	Peak	

- (1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value Limit Value.