

FCC Radio Test Report

FCC ID: 2AXJ4EAP610

The worst case of radiated emissions above 1GHz have been re-evaluated by sample of FCC ID: 2AXJ4EAP610, model name: EAP610. Meanwhile. The other test data were reissue from the FCC ID: 2AXJ4EAP620HDV2, model name: EAP620 HD. The test data of radiated emissions above 1GHz please see the Appendix A. Model difference: EAP610 has single DDR, EAP620 HD has dual DDR.

This report concerns: Original Grant

Project No. : 2102C267B

Equipment: AX1800 Ceiling Mount Wi-Fi 6 Access Point

Brand Name : tp-link
Test Model : EAP610
Series Model : N/A

Applicant: TP-Link Corporation Limited

Address : Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road,

Tsim Sha Tsui, Kowloon, Hong Kong

Manufacturer : TP-Link Corporation Limited

Address : Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road,

Tsim Sha Tsui, Kowloon, Hong Kong

Date of Receipt : Apr. 28, 2021

Date of Test : May 27, 2021 ~ Jun. 16, 2021

Issued Date : Jul. 27, 2021

Report Version: R01

Test Sample : Engineering Sample No.: DG20210423110

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

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10-2013

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

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IIac-MRA



TESTING CERT #5123.02

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, A2LA, or any agency of the U.S. Government.

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BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

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

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 in determining the Pass/Fail results.



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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Jul. 12, 2021
R01	Added the test software version.	Jul. 27, 2021



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	Judgment	Remark		
15.207 15.407(b)	AC Power Line Conducted Emissions		PASS	NOTE (5)		
15.407(b) 15.205(a) 15.209(a)	Radiated Emissions	APPENDIX A	PASS	NOTE (5)		
15.407(a) 15.407(e)	Spectrum Bandwidth		PASS	NOTE (5)		
15.407(a)	Maximum Output Power		PASS	NOTE (5)		
15.407(a)	Power Spectral Density		PASS	NOTE (5)		
15.407(g)	Frequency Stability		PASS	NOTE (5)		
15.203	Antenna Requirements		PASS	NOTE (2)		
15.407(c)	Automatically Discontinue Transmission		PASS	NOTE (3)		

Note:

(1) "N/A"	denotes	test is	not app	olicable	in this	test rep	ort.
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- (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
- (5) Reissue from the FCC ID: 2AXJ4EAP620HDV2. Report No.: BTL-FCCP-2-2102C267.



1.1 TEST FACILITY

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

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

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)
		1GHz ~ 6GHz	-	3.96
DG-CB03 CISPF	CISPR	6GHz ~ 18GHz	-	5.24
DG-CB03	CISER	18GHz ~ 26.5GHz	•	3.62
		26.5GHz ~ 40GHz	-	4.00

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
Radiated Emissions-Above 1000 MHz	24°C	60%	AC 120V/60Hz	Jakyri Wen



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	AX1800 Ceiling Mount Wi-Fi 6 Access Point			
Brand Name	tp-link			
Test Model	EAP610			
Series Model	N/A			
Model Difference(s)	N/A			
Power Source	1# DC voltage supplied from AC adapter. Model: T120100-2B1 2# PoE supplied. (Supports Unit)			
Power Rating	1# I/P: 100-240V ~50/60Hz 0.3A O/P: 12V === 1A 2# 802.3at PoE: 42.5-57V === 0.6A			
Operation Frequency Band(s)	UNII-1: 5150 MHz~5250 MHz UNII-3: 5725 MHz~5850 MHz			
Modulation Type	IEEE 802.11a/n/ac: OFDM IEEE 802.11ax: OFDMA			
Bit Rate of Transmitter	IEEE 802.11a: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: up to 300 Mbps IEEE 802.11ac: up to 866.7 Mbps IEEE 802.11ax: up to 1201 Mbps			

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 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HE40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HE80)	
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				



IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20) IEEE 802.11ax (HE20)		IEEE 802.11n (HT40) IEEE 802.11ac (VHT40) IEEE 802.11ax (HE40)		IEEE 802.11ac (VHT80) IEEE 802.11ax (HE80)	
UNII-3		UNII-3		UNII-3	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3. Antenna Specification:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	EAP1800(EU)1.0	PIFA	I-PEX	3
2	tp-link	EAP1800(EU)1.0	PIFA	I-PEX	3

Note:

- 1) This EUT supports CDD, and all antennas have the same gain, Directional gain = G_{ANT} +Array Gain. For power measurements, Array Gain=0dB ($N_{ANT} \le 4$), so the Directional gain=3. For power spectral density measurements, N_{ANT} =2, N_{SS} = 1. So the Directional gain= G_{ANT} +Array Gain= G_{ANT} +10log(N_{ANT} / N_{SS})dBi=3+10log(2/1)dBi=6.01. Then, the UNII-1 power spectral density limit is 17-(6.01-6)=16.99, the UNII-3 power spectral density limit is 30-(6.01-6)=29.99.
- 2) Beamforming Gain: 3dB. So Directional gain=3+3=6.
- 3) The antenna gain and beamforming gain are provided by the manufacturer.

4. Table for Antenna Configuration:

For Non Beamforming:

or Non Beamforming:	
Operating Mode TX Mode	2TX
IEEE 802.11a	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11n(HT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac (VHT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac (VHT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac (VHT80)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HE20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HE40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HE80)	V (Ant. 1 + Ant. 2)



For Beamforming:

Operating Mode TX Mode	2TX
IEEE 802.11ac (VHT20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac (VHT40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ac (VHT80)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HE20)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HE40)	V (Ant. 1 + Ant. 2)
IEEE 802.11ax (HE80)	V (Ant. 1 + Ant. 2)



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 (UNII-1)
Mode 2	TX AC (VHT20) Mode / CH36 (UNII-1)
Mode 3	TX AC (VHT40) Mode / CH38 (UNII-1)
Mode 4	TX AC (VHT80) Mode / CH42 (UNII-1)
Mode 5	TX AX (HE20) Mode / CH36 (UNII-1)
Mode 6	TX AX (HE40) Mode / CH38 (UNII-1)
Mode 7	TX AX (HE80) Mode / CH42 (UNII-1)

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

Radiated emissions test - Above 1GHz_Non Beamforming						
Final Test Mode Description						
Mode 1	TX A Mode / CH36 (UNII-1)					
Mode 2	TX AC (VHT20) Mode / CH36 (UNII-1)					
Mode 3	TX AC (VHT40) Mode / CH38 (UNII-1)					
Mode 4	TX AC (VHT80) Mode / CH42 (UNII-1)					
Mode 5	TX AX (HE20) Mode / CH36 (UNII-1)					
Mode 6	TX AX (HE40) Mode / CH38 (UNII-1)					
Mode 7	TX AX (HE80) Mode / CH42 (UNII-1)					

Note:

- (1) For radiated emission above 1 GHz test, 1GHz~26.5GHz and 26.5GHz~40GHz have been pre-tested and in this report only recorded the worst case. The remaining spurious points are all below the limit value of 20dB.
- (2) All the bit rate of transmitter have been tested and found the lowest rate is found to be the worst case and recorded.
- (3) The measurements for Output Power are tested, the Non Beamforming and Beamforming are recorded in the report. The worst case is Non Beamforming and only the worst case is documented for other test items.
- (4) VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.
- (5) IEEE 802.11ax mode only supports full RU, so only the full RU is evaluated and measured inside report.

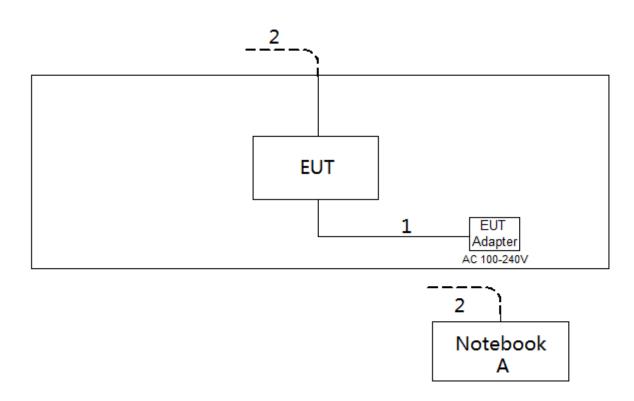
2.3 TEST SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test Software Version QDART-Connectivity1.0-00075.exe



2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



2.5 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. RADIATED EMISSIONS TEST

3.1 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 UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequency	EIRP Limit	Equivalent Field Strength at 3m
(MHz)	(dBm/MHz)	(dBµV/m)
5150-5250	-27	68.3
	-27 NOTE (2)	68.3
E725 5050	10 NOTE (2)	105.3
5725-5850	15.6 NOTE (2)	110.9
	27 NOTE (2)	122.3

NOTE:

(1	1)	The following formula	is used to d	convert the equi	ipment isotrop	ic radiated r	oower (eirr	o) to	o field strend	ıth
١.	.,	The fellowing fermion	io acca to t	on voic and oqu	ipinonii iooti op	no radiatoa j	00 W 01 (011 p	,, .	o mora ou one	,

$$E=rac{1000000\sqrt{30P}}{3}$$
 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.

3.2 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 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)
- b. 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.
- c. 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).
- d. 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.
- e. 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.
- f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- g. For the actual test configuration, please refer to the related Item -EUT Test Photos.

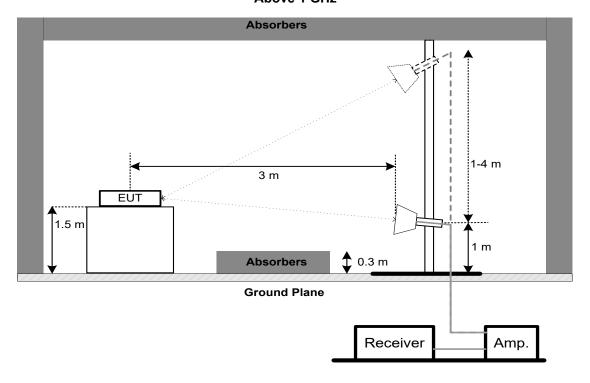
3.3 DEVIATION FROM TEST STANDARD

No deviation



3.4 TEST SETUP

Above 1 GHz



3.5 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.

3.6 TEST RESULTS - ABOVE 1000 MHz

Please refer to the APPENDIX A.

Remark:

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



4. MEASUREMENT INSTRUMENTS LIST

	Radiated Emissions - Above 1 GHz								
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until				
1	Double Ridged Guide Antenna	ETS	3115	75789	May 10, 2022				
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jul. 07, 2021				
3	Amplifier	Agilent	8449B	3008A02584	Jul. 25, 2021				
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Feb. 28, 2022				
5	Receiver	Agilent	N9038A	MY52130039	Jul. 25, 2021				
6	Controller CT		SC100	N/A	N/A				
7	Controller	MF	MF-7802	MF780208416	N/A				
8	Cable	N/A	EMC104-SM-SM-6 000	N/A	Oct. 16, 2021				
9	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A				
10	Band Reject Filter	Micro-Tronics	BRC50705-01	10	Feb. 27, 2022				
11	Band Reject Filter	Micro-Tronics	BRC50703-01	7	Feb. 27, 2022				
12	966 Chambe Room	RM	9*6*6m	N/A	Jul. 25, 2021				

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

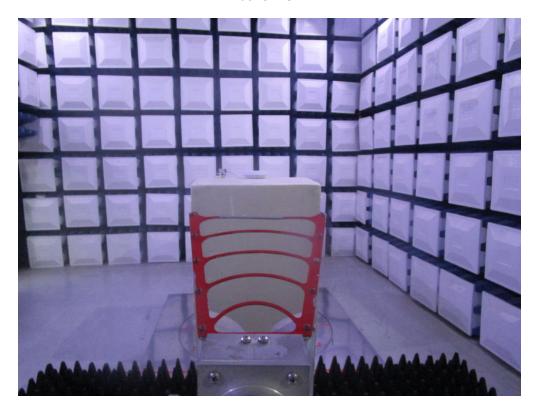
All calibration period of equipment list is one year.



5. EUT TEST PHOTOS

Radiated Emissions Test Photos

Above 1 GHz



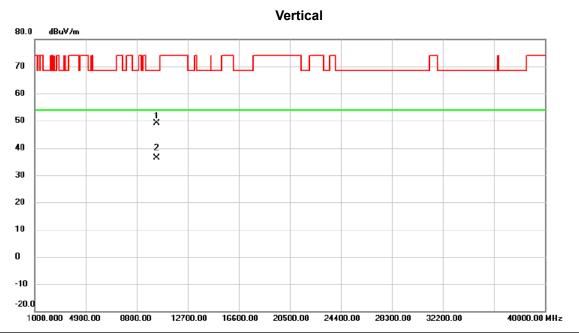




APPENDIX A - RADIATED EMISSION - ABOVE 1000 MHZ



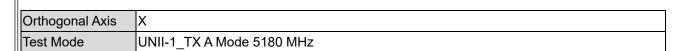


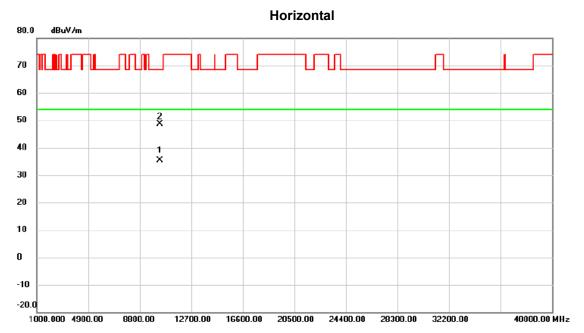


No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	1	0358.370	34.25	14.89	49.14	68.30	-19.16	peak	
2	* 1	0359.915	21.48	14.89	36.37	54.00	-17.63	AVG	

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







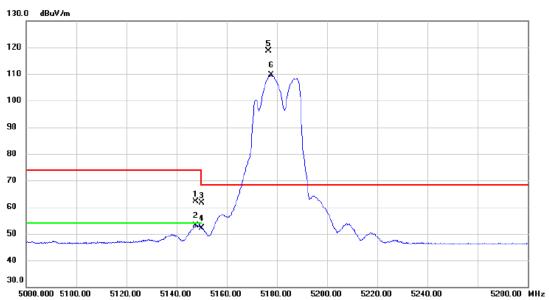
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	* 1	0359.370	20.59	14.89	35.48	54.00	-18.52	AVG	
2	1	0359.940	33.63	14.89	48.52	68.30	-19.78	peak	

- (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



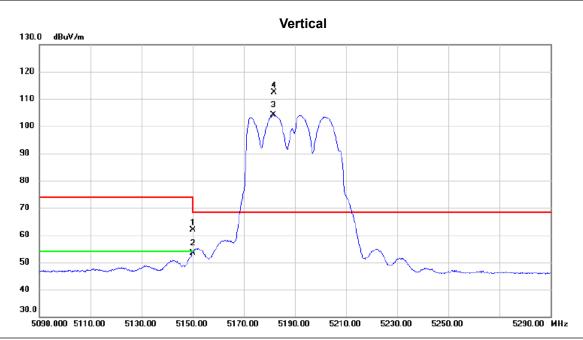


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5147.700	44.59	17.54	62.13	74.00	-11.87	peak	
2		5147.700	35.68	17.54	53.22	54.00	-0.78	AVG	
3		5150.000	44.14	17.56	61.70	74.00	-12.30	peak	
4		5150.000	34.69	17.56	52.25	54.00	-1.75	AVG	
5	*	5176.700	101.07	17.66	118.73	68.30	50.43	peak	No Limit
6	Χ	5177.800	91.85	17.67	109.52	68.30	41.22	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

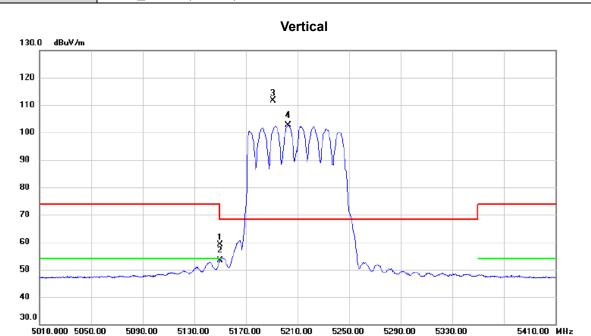


No. M	k. Fre	Readi q. Leve	-	rect Meas ctor me		t Margi	in			
	MH	z dBu\	√ dE	B dBuV	//m dBuV/r	n dB	Detector	Comment		
1	5150.0	00 44.	31 17.	56 61.8	37 74.00	-12.13	3 peak			
2	5150.0	00 35.	83 17.	56 53.3	39 54.00	-0.61	AVG			
3 X	5181.5	00 86.	37 17.	68 104.0	05 68.30	35.75	AVG	No Limit		
4 *	5181.9	00 94.	78 17.	68 112.4	46 68.30	44.16	peak	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

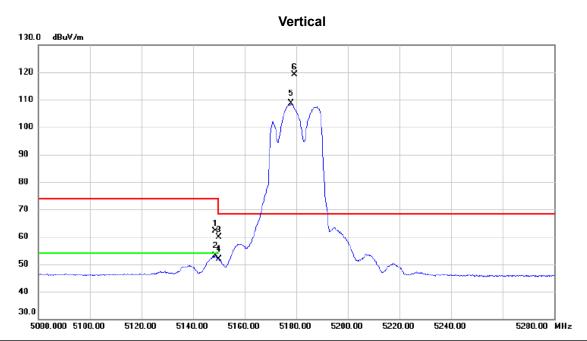


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5150.000	41.61	17.56	59.17	74.00	-14.83	peak	
2		5150.000	35.79	17.56	53.35	54.00	-0.65	AVG	
3	*	5190.800	93.81	17.72	111.53	68.30	43.23	peak	No Limit
4	X	5203.000	84.82	17.77	102.59	68.30	34.29	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 AX (HE20) Mode 5180 MHz



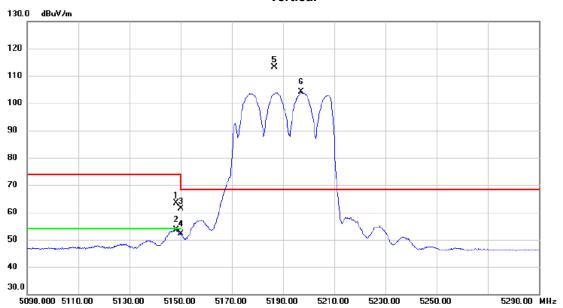
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.700	44.66	17.56	62.22	74.00	-11.78	peak	
2		5148.700	35.52	17.56	53.08	54.00	-0.92	AVG	
3		5150.000	42.22	17.56	59.78	74.00	-14.22	peak	
4		5150.000	34.26	17.56	51.82	54.00	-2.18	AVG	
5	Χ	5178.000	90.85	17.67	108.52	68.30	40.22	AVG	No Limit
6	*	5179.300	101.57	17.67	119.24	68.30	50.94	peak	No Limit

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



Orthogonal Axis	X
Test Mode	UNII-1 TX AX (HE40) Mode 5190 MHz

Vertical

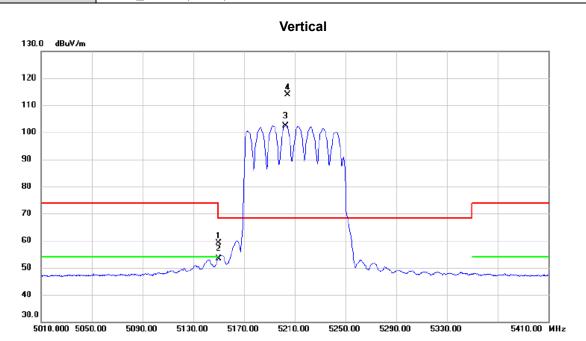


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5148.200	45.93	17.55	63.48	74.00	-10.52	peak	
2		5148.200	35.98	17.55	53.53	54.00	-0.47	AVG	
3		5150.000	43.84	17.56	61.40	74.00	-12.60	peak	
4		5150.000	34.53	17.56	52.09	54.00	-1.91	AVG	
5	*	5186.700	95.31	17.70	113.01	68.30	44.71	peak	No Limit
6	X	5197.200	86.29	17.74	104.03	68.30	35.73	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 AX (HE80) Mode 5210 MHz



No. M	1k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	5150.000	41.68	17.56	59.24	74.00	-14.76	peak	
2	5150.000	35.89	17.56	53.45	54.00	-0.55	AVG	
3 X	5202.800	84.65	17.77	102.42	68.30	34.12	AVG	No Limit
4 *	5204.600	96.08	17.77	113.85	68.30	45.55	peak	No Limit

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

End of Test Report