



FCC Part 15.247 TEST REPORT

For

Cisco Systems, Inc.

West Tasman Dr, San Jose, CA 95134

FCC ID: LDKCNWLI2637

Report Type:

Original Report

Product Type:

Cisco Catalyst 9130AX Series Wi-

Fi 6 Access Points

Report Producer: Coco Lin

Report Number: RXZ220722002RF02

Report Date : <u>2022-08-09</u>

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Revision History

No.: RXZ220722002RF02

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0.0	RXZ220722002	RXZ220722002RF02	2022-08-09	Original Report	Coco Lin

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1 General Information

1.1 Product Description for Equipment under Test (EUT)

Manufacturar	Cisco Systems, Inc.			
Manufacturer	170 West Tasman Dr, San Jose, CA 95134			
Brand(Trade) Name	CISCO			
Product (Equipment)	Cisco Catalyst 9130AX Series Wi-Fi 6 Access Points			
Main Model Name	C9130AXI-B			
Frequency Range	2412~2462 MHz			
Modulation Technique	DSSS, OFDM			
Power Operation	55Vda from DoE nort			
(Voltage Range)	55Vdc from PoE port			
Received Date	2022/7/22			
Date of Test	2022/7/25 ~ 2022/7/29			

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1.2 Objective

This report is prepared on behalf of *Cisco Systems, Inc.* in accordance with Part 2, Subpart J, Part 15, Subparts A and C of the Federal Communication Commission's rules.

Wi-Fi and Chillwave leverage original test data (FCC ID: LDKAX5122118) in accordance with FCC KDB 484596 D01. Wi-Fi and Chillwave will be verified by spot checking output power and radiated spurious emissions.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

^{*}All measurement and test data in this report was gathered from production sample serial number: RXZ220722002-01 (Assigned by BACL, New Taipei Laboratory).

1.4 Statement

Decision Rule: No, (The test results do not include MU judgment)

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Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

1.5 Measurement Uncertainty

1/2048 4/2 0110110 0 11001 041110				
Parameter		Uncertainty		
RF output power, conducted		±0.93 (dB)		
	30 MHz~1GHz	±5.22(dB)		
Emissions, radiated	1 GHz~18 GHz	±6.12(dB)		
	18 GHz~40 GHz	±4.99(dB)		
Temperature		+/- 1.27 °C		
Humidity		+/- 3 %		

1.6 Environmental Conditions

Test Site	Test Site Test Date		Relative Humidity (%)	ATM Pressure (hPa)	Test Engineer
Radiation Spurious Emissions	2022/7/25~2022/7/29	21.1~27.2	47~72	1010	Jim Chen
Maximum Output Power	2022/7/25	26.7	43	1010	Andy Cheng

1.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on

70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 22183, Taiwan, R.O.C.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3732) and the FCC designation No.TW3732 under the Mutual Recognition Agreement (MRA) in FCC Test.

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2 System Test Configuration

2.1 Equipment Modifications

No modification was made to the EUT.

2.2 Test Mode

Mode 2: WIFI 2.4GHz XOR + WIFI 5GHz Regular(4TX) + WIFI 2.4GHz Aux + BLE

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Mode 3: WIFI 2.4GHz XOR + WIFI 5GHz Regular(4TX) + WIFI 5GHz Aux + BLE

Mode 4: WIFI 5GHz XOR + WIFI 5GHz Regular(4TX) + WIFI 2.4GHz Aux + BLE

Mode 5: WIFI 5GHz XOR + WIFI 5GHz Regular(4TX) + WIFI 5GHz Aux + BLE

Mode 6: WIFI 2.4GHz XOR + WIFI 5GHz Regular(8TX) + WIFI 2.4GHz Aux + BLE

Mode 7: WIFI 2.4GHz XOR + WIFI 5GHz Regular(8TX) + WIFI 5GHz Aux + BLE

Radiated spurious emissions for Transmitting simultaneously test: Mode 2~7.

2.3 Support Equipment List and Details

Description	Manufacturer Model Number		S/N
POE Adapter	CISCO	SB-PWR-INJ2	C18426663000003170
NB	DELL	E6410	8N7PXN1

2.4 External Cable List and Details

Cable Description	Length (m)	From	То
RJ-45 Cable	1	EUT	POE Adapter
RJ-45 to USB Serial Cable	2	EUT	NB

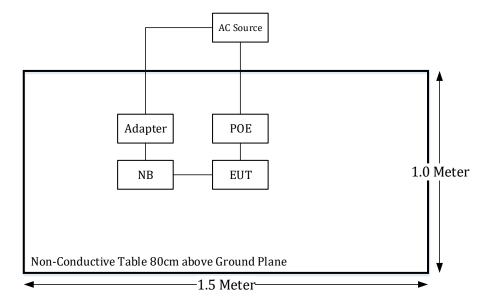
2.5 Block Diagram of Test Setup

See test photographs attached in setup photos for the actual connections between EUT and support equipment.

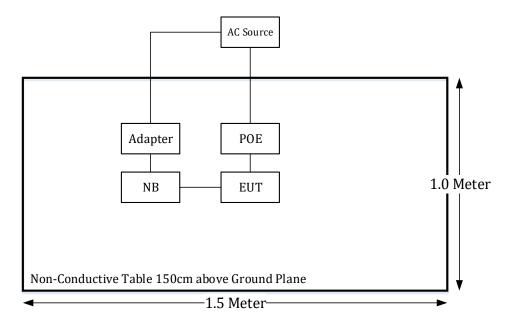
No.: RXZ220722002RF02

Radiation:

Below 1GHz:



Above 1GHz:



3 Summary of Test Results

FCC Rules	Description of Test	Results
§15.247(i), §1.1307(b)(3)(i)	RF Exposure	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247(b)(3)	Maximum Peak Output Power	Compliance

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^{*}Note: The output power for each radio and each frequency band already verified

The test report presented the worst modes and channels

4 Test Equipment List and Details

Description	Manufacturer Model Serial Number		Serial Number	Calibratio n Date	Calibration Due Date
		Radiation 3M Roo	om (966-A)		
Bilog Antenna with 6 dB Attenuator	with 6 dB SCIENCES & JB6/UNAT-6+ A05		A050115/15542_01	2022/02/14	2023/02/13
Horn Antenna	EMCO	3115 9809-55583		2021/8/26	2022/8/25
Horn Antenna	ETS-Lindgren	3116 62638		2021/8/11	2022/8/10
Preamplifier	Sonoma	310N	130602	2022/6/8	2023/6/7
Preamplifier	A.H. system Inc.	PAM-0118P	466	2021/11/4	2022/11/3
Microware Preamplifier	EM Electronics Corporation	EM18G40G	60656	2021/12/27	2022/12/26
Spectrum Analyzer	Rohde & Schwarz	FSV40	101435	2021/12/27	2022/12/26
EMI Test Receiver	Rohde & Schwarz ESR7 101419		2021/11/9	2022/11/8	
Micro flex Cable	o flex Cable UTIFLEX UFB197C-1- 2362-70U-70U 225757-001		2022/1/24	2023/1/23	
Coaxial Cable	COMMATE	PEWC	8Dr	2021/12/24	2022/12/23
Coaxial Cable	UTIFLEX	UFB311A-Q- 1440-300300	220490-006	2022/1/24	2023/1/23
Coaxial Cable	JUNFLON	J12J102248-00- B-5	AUG-07-15-044	2021/12/24	2022/12/23
Cable	EMC	EMC105-SM- SM-10000	201003	2022/1/24	2023/1/23
Coaxial Cable	ROSNOL	K1K50-UP0264- K1K50-450CM	160309-1	2022/1/24	2023/1/23
Coaxial Cable	Coaxial Cable ROSNOL K1K50-UP0264- K1K50-50CM 15120-1		15120-1	2022/1/18	2023/1/17
Software Audix e3 18621a bacl		18621a bacl	N.C.R	N.C.R	
	1	Conducted I	Room		
Cable	UTIFLEX	UFA210A	9435	2021/10/5	2022/10/4
Power Sensor	KEYSIGHT	U2021XA	MY54080018	2022/01/24	2023/01/23
Attenuator	MINI-CIRCUITS	BW-S10W5+	1419	2022/2/11	2023/2/10

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^{*}Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to the SI System of Units via the R.O.C. Center for Measurement Standards of the Electronics Testing Center, Taiwan (ETC) or to another internationally recognized National Metrology Institute (NMI), and were compliant with the current Taiwan Accreditation Foundation (TAF) requirement

5 FCC §15.247(i), § 1.1307(b)(3)(i) – RF Exposure

5.1 Applicable Standard

According to subpart 15.247(i) and subpart §1.1307(b)(3)(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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For single RF sources (*i.e.*, any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold *Pth* (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). *Pth* is given by:

$$P_{th} \; (\text{mW}) = \begin{cases} ERP_{20\;cm} (d/20\;\text{cm})^x & d \leq 20\;\text{cm} \\ ERP_{20\;cm} & 20\;\text{cm} < d \leq 40\;\text{cm} \end{cases}$$
 Where
$$x = -\log_{10} \left(\frac{60}{ERP_{20\;cm} \sqrt{f}} \right) \; \text{and} \; f \text{ is in GHz};$$
 and
$$ERP_{20\;cm} \; (\text{mW}) = \begin{cases} 2040f & 0.3\;\text{GHz} \leq f < 1.5\;\text{GHz} \\ 3060 & 1.5\;\text{GHz} \leq f \leq 6\;\text{GHz} \end{cases}$$

5.2 RF Exposure Evaluation Result

The EUT can be used in the following modes, selecting the worst mode for evaluation.

Mode 2: WIFI 2.4GHz XOR + WIFI 5GHz Regular(4TX) + WIFI 2.4GHz Aux + BLE

Mode 3: WIFI 2.4GHz XOR + WIFI 5GHz Regular(4TX) + WIFI 5GHz Aux + BLE

Mode 4: WIFI 5GHz XOR + WIFI 5GHz Regular(4TX) + WIFI 2.4GHz Aux + BLE

Mode 5: WIFI 5GHz XOR + WIFI 5GHz Regular(4TX) + WIFI 5GHz Aux + BLE

Mode 6: WIFI 2.4GHz XOR + WIFI 5GHz Regular(8TX) + WIFI 2.4GHz Aux + BLE

Mode 7: WIFI 2.4GHz XOR + WIFI 5GHz Regular(8TX) + WIFI 5GHz Aux + BLE

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Worst case is Mode 7:

Project info

Band	Freq	Tune-up Power	Ant Gain	Distances	Duty	Tune-up Power	ERP	ERP
Dallu	(MHz)	(dBm)	(dBi)	(mm)	(%)	(mW)	(dBm)	(mW)
BLE	2480	5	4	300	100%	3.16	6.85	4.84
WIFI 2.4G XOR	2462	24	10	300	100%	251.19	31.85	1531.09
WIFI 5G Regular(8TX)	5850	26	10.02	300	100%	398.11	33.87	2437.81
WIFI 5G AUX	5850	20.5	6	300	100%	112.20	24.35	272.27

Option A

The available maximum time-averaged power is no more than 1 mW

Band	Freq	Result
Banu	(MHz)	Option A
BLE	2480	not exempt
WIFI 2.4G XOR	2462	not exempt
WIFI 5G Regular(8TX)	5850	not exempt
WIFI 5G AUX	5850	not exempt

Option B

The available maximum time-averaged power or effective radiated power (ERP), whichever is greater.

This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).

Dond	Freq	Pth	V	ERP 20cm	Result
Band	(MHz)	(mW)	Х	(mW)	Option B
BLE	2480	3060.00	1.905	3060	exempt
WIFI 2.4G XOR	2462	3060.00	1.903	3060	exempt
WIFI 5G Regular(8TX)	5850	3060.00	2.091	3060	exempt
WIFI 5G AUX	5850	3060.00	2.091	3060	exempt

Simultaneous Analysis:

Dand	Freq	PSD	PSD	PSD Limit	Simultaneous	Datia
Band	(MHz)	Require	(mW/cm ²)	(mW/cm 2)	TX	Ratio
BLE	2480	exempt	0.001	1	0	0.001
WIFI 2.4G XOR	2462	exempt	0.222	1	0	0.222
WIFI 5G Regular(8TX)	5850	exempt	0.353	1	0	0.353
WIFI 5G AUX	5850	exempt	0.040	1	0	0.040
	Simultane	ous Analysis (Limi	t 1)			0.62

Result: The EUT meets exemption requirement- RF exposure evaluation greater than 30cm distance.

6 FCC §15.209, §15.205, §15.247(d) – Spurious Emissions

6.1 Applicable Standard

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	608 - 614	4.5 - 5.15
0.495 - 0.505	16.69475 – 16.69525	960 - 1240	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	1300 - 1427	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1435 - 1626.5	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1645.5 - 1646.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1660 - 1710	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1718.8 - 1722.2	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	2200 - 2300	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2310 - 2390	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2483.5 - 2500	15.35 - 16.2
8.362 - 8.366	156.52475 – 156.52525	2690 - 2900	17.7 - 21.4
8.37625 - 8.38675	156.7 – 156.9	3260 - 3267	22.01 - 23.12
8.41425 - 8.41475	162.0125 -167.17	3.332 - 3.339	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	33458 - 3358	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3.600 - 4.400	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4		Above 38.6
13.36 - 13.41	399.9 – 410		

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (micro volts/meter)	Measurement Distance (meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

Note 1: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under

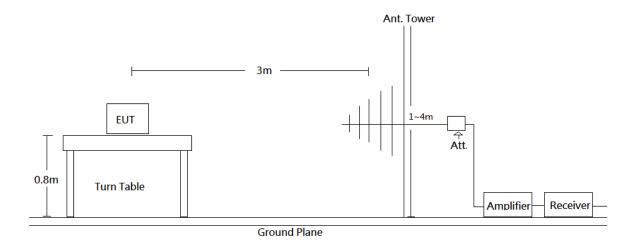
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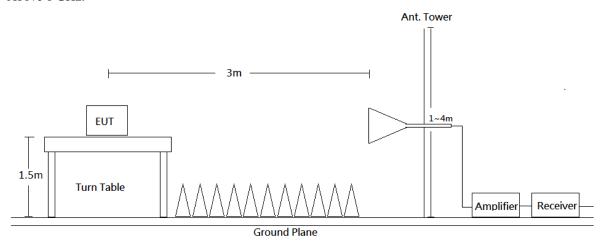
paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

6.2 EUT Setup

Below 1 GHz:



Above 1 GHz:



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part 15.209 and FCC 15.247 Limits.

6.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 26.5 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10.

Frequency Range	RBW	VBW	Duty cycle	Measurement method
30-1000 MHz	120 kHz	/	/	QP
	1 MHz	3 MHz	/	PK
Above 1 GHz	1 MHz	10 Hz	>98%	Ave
	1 MHz	1/T	<98%	Ave

Note: T is minimum transmission duration

6.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

6.5 Corrected Factor & Margin Calculation

The Correct Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

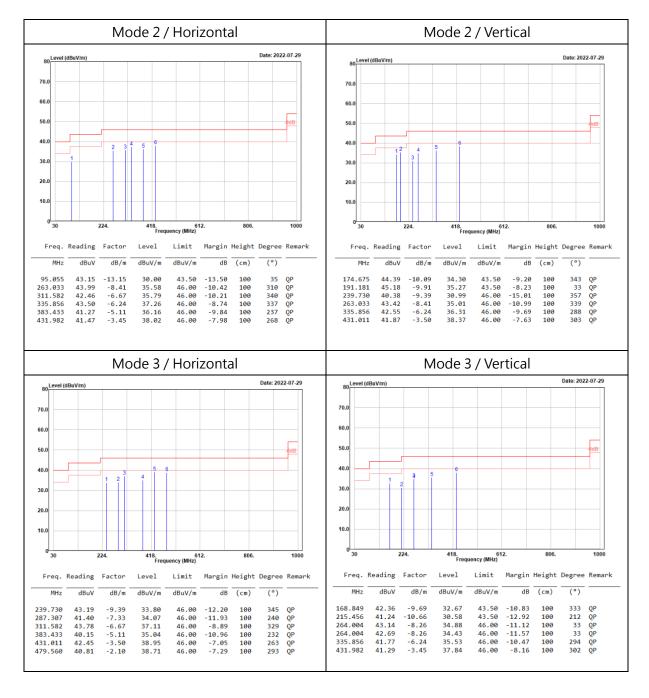
Margin = Result - Limit

6.6 Test Results

Test Mode: Transmitting

Transmitting simultaneously test:

30MHz-1GHz:



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Level (Result) = Reading + Factor.

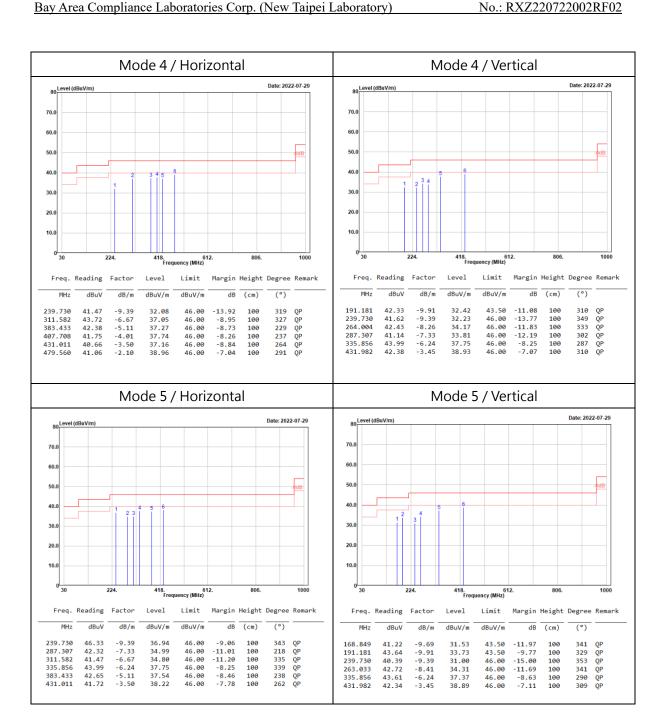
Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Spurious emissions more than 20 dB below the limit were not reported.

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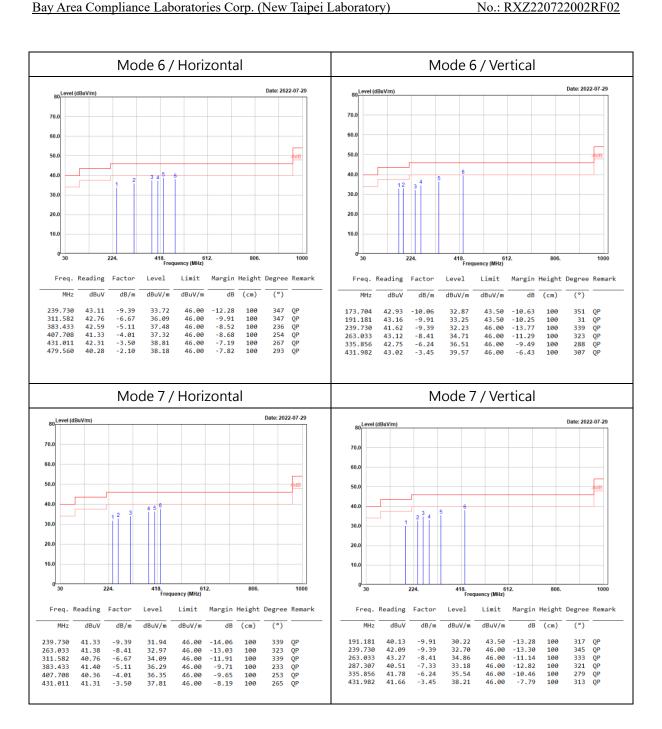
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Level (Result) = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.



Level (Result) = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Above 1GHz

Mode 2:

Horizontal												
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark				
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)					
4804.000	37.85	-3.47	34.38	54.00	-19.62	144	222	Average				
4804.000	44.07	-3.47	40.60	74.00	-33.40	144	222	Peak				
4874.000	39.13	-3.25	35.88	54.00	-18.12	188	169	Average				
4874.000	43.42	-3.25	40.17	74.00	-33.83	188	169	Peak				
7206.000	37.90	1.83	39.73	54.00	-14.27	179	334	Average				
7206.000	41.26	1.83	43.09	74.00	-30.91	179	334	Peak				
7311.000	38.23	2.46	40.69	54.00	-13.31	171	107	Average				
7311.000	41.41	2.46	43.87	74.00	-30.13	171	107	Peak				
10460.000	39.55	7.20	46.75	54.00	-7.25	203	273	Average				
10460.000	41.62	7.20	48.82	74.00	-25.18	203	273	Peak				
15690.000	38.56	7.34	45.90	54.00	-8.10	154	47	Average				
15690.000	42.33	7.34	49.67	74.00	-24.33	151	47	Peak				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark				
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)					
19216.000	40.90	-0.57	40.33	54.00	-13.67	150	358	Average				
19216.000	50.46	-0.57	49.89	74.00	-24.11	150	358	Peak				
19496.000	40.71	0.25	40.96	54.00	-13.04	150	147	Average				
19496.000	52.08	0.25	52.33	74.00	-21.67	150	147	Peak				
20920.000	42.69	1.81	44.50	54.00	-9.50	150	329	Average				
20920.000	49.40	1.81	51.21	74.00	-22.79	150	329	Peak				

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Level (Result) = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

			V	⁷ ertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	38.24	-3.47	34.77	54.00	-19.23	165	32	Average
4804.000	44.27	-3.47	40.80	74.00	-33.20	165	32	Peak
4874.000	39.37	-3.25	36.12	54.00	-17.88	182	334	Average
4874.000	43.62	-3.25	40.37	74.00	-33.63	182	334	Peak
7206.000	37.51	1.83	39.34	54.00	-14.66	201	283	Average
7206.000	41.43	1.83	43.26	74.00	-30.74	201	283	Peak
7311.000	38.42	2.46	40.88	54.00	-13.12	192	71	Average
7311.000	43.41	2.46	45.87	74.00	-28.13	192	71	Peak
10460.000	39.67	7.20	46.87	54.00	-7.13	133	149	Average
10460.000	41.72	7.20	48.92	74.00	-25.08	133	149	Peak
15690.000	39.13	7.34	46.47	54.00	-7.53	148	40	Average
15690.000	43.24	7.34	50.58	74.00	-23.42	148	40	Peak
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000	41.35	-0.57	40.78	54.00	-13.22	150	39	Average
19216.000	51.32	-0.57	50.75	74.00	-23.25	150	39	Peak
19496.000	40.82	0.25	41.07	54.00	-12.93	150	182	Average
19496.000	52.10	0.25	52.35	74.00	-21.65	150	182	Peak
20920.000	42.73	1.81	44.54	54.00	-9.46	150	178	Average
20920.000	49.51	1.81	51.32	74.00	-22.68	150	178	Peak

Level (Result) = Reading + Factor.

Margin = Level - Limit.

 $Factor = Antenna \ Factor + Cable \ Loss - Amplifier \ Gain.$

Mode 3:

	Horizontal												
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark					
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)						
4804.000	37.68	-3.47	34.21	54.00	-19.79	201	262	Average					
4804.000	42.96	-3.47	39.49	74.00	-34.51	201	262	Peak					
4874.000	38.42	-3.25	35.17	54.00	-18.83	169	166	Average					
4874.000	42.46	-3.25	39.21	74.00	-34.79	169	166	Peak					
7206.000	37.53	1.83	39.36	54.00	-14.64	171	19	Average					
7206.000	41.11	1.83	42.94	74.00	-31.06	171	19	Peak					
7311.000	39.47	2.46	41.93	54.00	-12.07	188	23	Average					
7311.000	41.56	2.46	44.02	74.00	-29.98	188	23	Peak					
10460.000	39.01	7.20	46.21	54.00	-7.79	161	350	Average					
10460.000	41.38	7.20	48.58	74.00	-25.42	161	350	Peak					
15690.000	38.70	7.34	46.04	54.00	-7.96	199	250	Average					
15690.000	42.38	7.34	49.72	74.00	-24.28	199	250	Peak					
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark					
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)						
19216.000	40.59	-0.57	40.02	54.00	-13.98	150	294	Average					
19216.000	49.38	-0.57	48.81	74.00	-25.19	150	294	Peak					
19496.000	41.38	0.25	41.63	54.00	-12.37	150	360	Average					
19496.000	49.78	0.25	50.03	74.00	-23.97	150	360	Peak					
20920.000	40.71	1.81	42.52	54.00	-11.48	150	40	Average					
20920.000	49.08	1.81	50.89	74.00	-23.11	150	40	Peak					

Level (Result) = Reading + Factor.

Margin = Level-Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

			V	ertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	-
4804.000	38.01	-3.47	34.54	54.00	-19.46	204	270	Average
4804.000	45.62	-3.47	42.15	74.00	-31.85	204	270	Peak
4874.000	39.72	-3.25	36.47	54.00	-17.53	199	360	Average
4874.000	42.95	-3.25	39.70	74.00	-34.30	199	360	Peak
7206.000	37.60	1.83	39.43	54.00	-14.57	171	126	Average
7206.000	41.93	1.83	43.76	74.00	-30.24	171	126	Peak
7311.000	39.69	2.46	42.15	54.00	-11.85	142	106	Average
7311.000	42.51	2.46	44.97	74.00	-29.03	142	106	Peak
10460.000	39.05	7.20	46.25	54.00	-7.75	173	309	Average
10460.000	42.33	7.20	49.53	74.00	-24.47	173	309	Peak
15690.000	39.69	7.34	47.03	54.00	-6.97	182	138	Average
15690.000	43.43	7.34	50.77	74.00	-23.23	182	138	Peak
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000	40.78	-0.57	40.21	54.00	-13.79	150	54	Average
19216.000	49.56	-0.57	48.99	74.00	-25.01	150	54	Peak
19496.000	41.49	0.25	41.74	54.00	-12.26	150	19	Average
19496.000	51.00	0.25	51.25	74.00	-22.75	150	19	Peak
20920.000	40.98	1.81	42.79	54.00	-11.21	150	225	Average
20920.000	49.17	1.81	50.98	74.00	-23.02	150	225	Peak

Level (Result) = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Mode 4:

			Hoi	rizontal				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	38.42	-3.47	34.95	54.00	-19.05	142	250	Average
4804.000	42.89	-3.47	39.42	74.00	-34.58	142	250	Peak
4874.000	37.95	-3.25	34.70	54.00	-19.30	157	52	Average
4874.000	43.01	-3.25	39.76	74.00	-34.24	157	52	Peak
7206.000	38.75	1.83	40.58	54.00	-13.42	189	355	Average
7206.000	41.11	1.83	42.94	74.00	-31.06	189	355	Peak
7311.000	39.00	2.46	41.46	54.00	-12.54	193	82	Average
7311.000	41.33	2.46	43.79	74.00	-30.21	193	82	Peak
10460.000	37.17	7.20	44.37	54.00	-9.63	201	223	Average
10460.000	41.11	7.20	48.31	74.00	-25.69	201	223	Peak
11550.000	35.77	7.70	43.47	54.00	-10.53	178	55	Average
11550.000	40.92	7.70	48.62	74.00	-25.38	178	55	Peak
15690.000	37.74	7.34	45.08	54.00	-8.92	197	131	Average
15690.000	42.90	7.34	50.24	74.00	-23.76	197	131	Peak
17325.000	37.27	13.49	50.76	54.00	-3.24	151	360	Average
17325.000	40.73	13.49	54.22	74.00	-19.78	151	360	Peak
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000	42.74	-0.57	42.17	54.00	-11.83	150	106	Average
19216.000	51.58	-0.57	51.01	74.00	-22.99	150	106	Peak
19496.000	41.51	0.25	41.76	54.00	-12.24	150	25	Average
19496.000	52.08	0.25	52.33	74.00	-21.67	150	25	Peak
20920.000	41.43	1.81	43.24	54.00	-10.76	150	95	Average
20920.000	49.78	1.81	51.59	74.00	-22.41	150	95	Peak
23100.000	41.09	2.28	43.37	54.00	-10.63	150	271	Average
23100.000	48.99	2.28	51.27	74.00	-22.73	150	271	Peak

Level (Result) = Reading + Factor.

Margin = Level - Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$

			\mathbf{V}	ertical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	38.59	-3.47	35.12	54.00	-18.88	192	7	Average
4804.000	44.44	-3.47	40.97	74.00	-33.03	192	7	Peak
4874.000	38.61	-3.25	35.36	54.00	-18.64	177	277	Average
4874.000	43.46	-3.25	40.21	74.00	-33.79	177	277	Peak
7206.000	39.93	1.83	41.76	54.00	-12.24	202	270	Average
7206.000	41.80	1.83	43.63	74.00	-30.37	202	270	Peak
7311.000	39.05	2.46	41.51	54.00	-12.49	171	151	Average
7311.000	42.09	2.46	44.55	74.00	-29.45	171	151	Peak
10460.000	37.41	7.20	44.61	54.00	-9.39	166	340	Average
10460.000	42.35	7.20	49.55	74.00	-24.45	166	340	Peak
11550.000	36.21	7.70	43.91	54.00	-10.09	198	170	Average
11550.000	41.26	7.70	48.96	74.00	-25.04	198	170	Peak
15690.000	38.00	7.34	45.34	54.00	-8.66	135	360	Average
15690.000	42.91	7.34	50.25	74.00	-23.75	135	360	Peak
17325.000	37.47	13.49	50.96	54.00	-3.04	147	18	Average
17325.000	41.94	13.49	55.43	74.00	-18.57	147	18	Peak
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000		-0.57	42.32	54.00	-11.68	150	2	Average
19216.000	53.92	-0.57	53.35	74.00	-20.65	150	2	Peak
19496.000	41.62	0.25	41.87	54.00	-12.13	150	317	Average
19496.000	52.21	0.25	52.46	74.00	-21.54	150	317	Peak
20920.000	41.54	1.81	43.35	54.00	-10.65	150	51	Average
20920.000	49.91	1.81	51.72	74.00	-22.28		51	Peak
23100.000		2.28	43.46	54.00	-10.54		151	Average
23100.000	50.36	2.28	52.64	74.00	-21.36	150	151	Peak

Level (Result) = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Mode 5:

			Hor	izontal				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	35.75	-3.47	32.28	54.00	-21.72	200	166	Average
4804.000	42.81	-3.47	39.34	74.00	-34.66	200	166	Peak
7206.000	36.55	1.83	38.38	54.00	-15.62	197	136	Average
7206.000	40.32	1.83	42.15	74.00	-31.85	197	136	Peak
10460.000	34.99	7.20	42.19	54.00	-11.81	165	274	Average
10460.000	40.97	7.20	48.17	74.00	-25.83	165	274	Peak
10600.000	36.92	7.55	44.47	54.00	-9.53	144	47	Average
10600.000	40.75	7.55	48.30	74.00	-25.70	144	47	Peak
11550.000	35.78	7.70	43.48	54.00	-10.52	189	224	Average
11550.000	40.41	7.70	48.11	74.00	-25.89	189	224	Peak
15690.000	35.87	7.34	43.21	54.00	-10.79	201	246	Average
15690.000	42.78	7.34	50.12	74.00	-23.88	201	246	Peak
15900.000	36.62	7.30	43.92	54.00	-10.08	178	117	Average
15900.000	42.00	7.30	49.30	74.00	-24.70	178	117	Peak
17325.000	36.87	13.49	50.36	54.00	-3.64	151	86	Average
17325.000	40.81	13.49	54.30	74.00	-19.70	151	86	Peak
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000	42.62	-0.57	42.05	54.00	-11.95	150	0	Average
19216.000	51.87	-0.57	51.30	74.00	-22.70	150	0	Peak
20920.000	41.79	1.81	43.60	54.00	-10.40	150	56	Average
20920.000	49.73	1.81	51.54	74.00	-22.46	150	56	Peak
21200.000	42.55	1.85	44.40	54.00	-9.60	150	164	Average
21200.000	49.67	1.85	51.52	74.00	-22.48	150	164	Peak
23100.000	43.16	2.28	45.44	54.00	-8.56	150	133	Average
23100.000	52.60	2.28	54.88	74.00	-19.12	150	133	Peak

Level (Result) = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Spurious emissions more than 20 dB below the limit were not reported.

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

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Vertical												
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark				
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)					
4804.000	36.07	-3.47	32.60	54.00	-21.40	156	59	Average				
4804.000	43.42	-3.47	39.95	74.00	-34.05	156	59	Peak				
7206.000	36.93	1.83	38.76	54.00	-15.24	177	127	Average				
7206.000	41.32	1.83	43.15	74.00	-30.85	177	127	Peak				
10460.000	35.06	7.20	42.26	54.00	-11.74	204	0	Average				
10460.000	42.41	7.20	49.61	74.00	-24.39	204	0	Peak				
10600.000	36.75	7.55	44.30	54.00	-9.70	192	32	Average				
10600.000	41.48	7.55	49.03	74.00	-24.97	192	32	Peak				
11550.000	35.91	7.70	43.61	54.00	-10.39	166	32	Average				
11550.000	42.80	7.70	50.50	74.00	-23.50	166	32	Peak				
15690.000	36.08	7.34	43.42	54.00	-10.58	173	1	Average				
15690.000	43.75	7.34	51.09	74.00	-22.91	173	1	Peak				
15900.000	36.92	7.30	44.22	54.00	-9.78	180	219	Average				
15900.000	43.22	7.30	50.52	74.00	-23.48	180	219	Peak				
17325.000	37.11	13.49	50.60	54.00	-3.40	183	242	Average				
17325.000	41.47	13.49	54.96	74.00	-19.04	183	242	Peak				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark				
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)					
19216.000	42.83	-0.57	42.26	54.00	-11.74	150	322	Average				
19216.000	52.45	-0.57	51.88	74.00	-22.12	150	322	Peak				
20920.000	41.98	1.81	43.79	54.00	-10.21	150	29	Average				
20920.000	49.99	1.81	51.80	74.00	-22.20	150	29	Peak				
21200.000	42.75	1.85	44.60	54.00	-9.40	150	78	Average				
21200.000	50.18	1.85	52.03	74.00	-21.97	150	78	Peak				
23100.000	43.43	2.28	45.71	54.00	-8.29	150	294	Average				
23100.000	53.12	2.28	55.40	74.00	-18.60	150	294	Peak				

Level (Result) = Reading + Factor.

Margin = Level - Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$

Mode 6:

			Hor	izontal				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	36.10	-3.47	32.63	54.00	-21.37	199	249	Average
4804.000	43.79	-3.47	40.32	74.00	-33.68	199	249	Peak
4874.000	38.01	-3.25	34.76	54.00	-19.24	183	83	Average
4874.000	43.21	-3.25	39.96	74.00	-34.04	183	83	Peak
7206.000	37.69	1.83	39.52	54.00	-14.48	167	132	Average
7206.000	40.83	1.83	42.66	74.00	-31.34	167	132	Peak
7311.000	37.15	2.46	39.61	54.00	-14.39	169	51	Average
7311.000	41.24	2.46	43.70	74.00	-30.30	169	51	Peak
11490.000	36.13	7.50	43.63	54.00	-10.37	201	206	Average
11490.000	40.26	7.50	47.76	74.00	-26.24	201	206	Peak
17235.000	35.72	12.83	48.55	54.00	-5.45	174	83	Average
17235.000	42.17	12.83	55.00	74.00	-19.00	174	83	Peak
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19211.590	40.81	-0.58	40.23	54.00	-13.77	150	340	Average
19211.590	51.26	-0.58	50.68	74.00	-23.32	150	340	Peak
19496.000	43.15	0.25	43.40	54.00	-10.60	150	83	Average
19496.000	52.07	0.25	52.32	74.00	-21.68	150	83	Peak
22980.000	42.47	2.57	45.04	54.00	-8.96	150	136	Average
22980.000	48.81	2.57	51.38	74.00	-22.62	150	136	Peak

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Level (Result) = Reading + Factor.

Margin = Level - Limit.

 $Factor = Antenna \ Factor + Cable \ Loss - Amplifier \ Gain.$

			Ve	rtical				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	36.33	-3.47	32.86	54.00	-21.14	182	2	Average
4804.000	44.28	-3.47	40.81	74.00	-33.19	182	2	Peak
4874.000	38.15	-3.25	34.90	54.00	-19.10	134	240	Average
4874.000	43.24	-3.25	39.99	74.00	-34.01	134	240	Peak
7206.000	38.43	1.83	40.26	54.00	-13.74	198	310	Average
7206.000	42.00	1.83	43.83	74.00	-30.17	198	310	Peak
7311.000	37.33	2.46	39.79	54.00	-14.21	176	51	Average
7311.000	41.59	2.46	44.05	74.00	-29.95	176	51	Peak
11490.000	36.17	7.50	43.67	54.00	-10.33	201	39	Average
11490.000	41.46	7.50	48.96	74.00	-25.04	201	39	Peak
17235.000	36.25	12.83	49.08	54.00	-4.92	153	290	Average
17235.000	42.39	12.83	55.22	74.00	-18.78	153	290	Peak
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000	41.71	-0.57	41.14	54.00	-12.86	150	0	Average
19216.000	52.04	-0.57	51.47	74.00	-22.53	150	0	Peak
19496.000	43.37	0.25	43.62	54.00	-10.38	150	39	Average
19496.000	52.23	0.25	52.48	74.00	-21.52	150	39	Peak
22980.000	42.81	2.57	45.38	54.00	-8.62	150	80	Average
22980.000	49.29	2.57	51.86	74.00	-22.14	150	80	Peak

Level (Result) = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

Mode 7:

			Hor	rizontal				
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	36.48	-3.47	33.01	54.00	-20.99	150	274	Average
4804.000		-3.47	40.41	74.00	-33.59		274	Peak
4874.000		-3.25	34.67	54.00	-19.33		59	Average
4874.000		-3.25	40.18	74.00	-33.82		59	Peak
7206.000	38.15	1.83	39.98	54.00	-14.02	150	183	Average
7206.000		1.83	43.55	74.00	-30.45		183	Peak
7311.000		2.46	41.00	54.00	-13.00	150	109	Average
7311.000	40.92	2.46	43.38	74.00	-30.62	150	109	Peak
10600.000	38.76	7.55	46.31	54.00	-7.69	150	357	Average
10600.000	41.17	7.55	48.72	74.00	-25.28	150	357	Peak
11490.000	38.00	7.50	45.50	54.00	-8.50	150	301	Average
11490.000	40.29	7.50	47.79	74.00	-26.21	150	301	Peak
15900.000	38.11	7.30	45.41	54.00	-8.59	150	347	Average
15900.000	42.08	7.30	49.38	74.00	-24.62	150	347	Peak
17235.000	38.75	12.83	51.58	54.00	-2.42	150	59	Average
17235.000	41.81	12.83	54.64	74.00	-19.36		59	Peak
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000	42.19	-0.57	41.62	54.00	-12.38	150	77	Average
19216.000	52.28	-0.57	51.71	74.00	-22.29	150	77	Peak
19496.000	42.27	0.25	42.52	54.00	-11.48	150	92	Average
19496.000	52.70	0.25	52.95	74.00	-21.05	150	92	Peak
21200.000	42.01	1.85	43.86	54.00	-10.14	150	77	Average
21200.000	49.29	1.85	51.14	74.00	-22.86	150	77	Peak
22980.000	42.36	2.57	44.93	54.00	-9.07	150	360	Average
22980.000	49.21	2.57	51.78	74.00	-22.22	150	360	Peak

Level (Result) = Reading + Factor.

Margin = Level - Limit.

 $Factor = Antenna \ Factor + Cable \ Loss - Amplifier \ Gain.$

Vertical								
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
4804.000	37.05	-3.47	33.58	54.00	-20.42	142	321	Average
4804.000	44.27	-3.47	40.80	74.00	-33.20	142	321	Peak
4874.000	38.36	-3.25	35.11	54.00	-18.89	155	211	Average
4874.000	45.11	-3.25	41.86	74.00	-32.14	155	211	Peak
7206.000	38.23	1.83	40.06	54.00	-13.94	183	112	Average
7206.000	42.40	1.83	44.23	74.00	-29.77	183	112	Peak
7311.000	38.76	2.46	41.22	54.00	-12.78	201	180	Average
7311.000	41.07	2.46	43.53	74.00	-30.47	201	180	Peak
10600.000	38.92	7.55	46.47	54.00	-7.53	199	240	Average
10600.000	41.72	7.55	49.27	74.00	-24.73	199	240	Peak
11490.000	38.15	7.50	45.65	54.00	-8.35	178	17	Average
11490.000	41.10	7.50	48.60	74.00	-25.40	178	17	Peak
15900.000	38.44	7.30	45.74	54.00	-8.26	166	310	Average
15900.000	42.45	7.30	49.75	74.00	-24.25	166	310	Peak
17235.000	39.28	12.83	52.11	54.00	-1.89	154	9	Average
17235.000	43.66	12.83	56.49	74.00	-17.51	154	9	Peak
Freq.	Reading	Factor	Level	Limit	Margin	Height	Degree	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	(cm)	(°)	
19216.000	42.39	-0.57	41.82	54.00	-12.18	150	172	Average
19216.000	52.72	-0.57	52.15	74.00	-21.85	150	172	Peak
19496.000	42.39	0.25	42.64	54.00	-11.36	150	75	Average
19496.000	52.91	0.25	53.16	74.00	-20.84	150	75	Peak
21200.000	42.04	1.85	43.89	54.00	-10.11	150	123	Average
21200.000	49.73	1.85	51.58	74.00	-22.42	150	123	Peak
22980.000	42.49	2.57	45.06	54.00	-8.94	150	45	Average
22980.000	49.39	2.57	51.96	74.00	-22.04	150	45	Peak

Level (Result) = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss – Amplifier Gain.

7 FCC §15.247(a)(2) – Maximum Output Power

7.1 Applicable Standard

According to FCC §15.247(b) (3).

Systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

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7.2 Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to measuring equipment.

7.3 Test Results

Conducted output power for worst case:

Worst case	Output power		
Worst case	(dBm)		
XOR WIFI-2.4GHz	AX20 Mode, 2437MHz	23.52	
XOR WIFI-5GHz	AX80 Mode, 5775MHz	22.48	
Regular WIFI-5GHz(4TX)	AX40 Mode, 5230 MHz	21.62	
Regular WIFI-5GHz(8TX)	AX20 Mode, 5745MHz	25.68	
AUX WIFI-2.4GHz	G Mode, 2437MHz	20.01	
AUX WIFI-5GHz	A Mode, 5300MHz	20.22	

***** END OF REPORT *****