

Report Number: 13603575-E2V3

Issue Date: 2021/07/23

Product Name: WIRELESS DEVICE

Model Number: E1915

FCC ID: FHO-E1915

Electromagnetic Compatibility Test Report

For

IKEA OF SWEDEN AB BOX 702 SE-343 81, ÄLMHULT, SWEDEN



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Test Report Details

Tests Performed By: UL VERIFICATION SERVICES INC.

47173 BENICIA STREET FREMONT, CA 94538, U.S.A.

Tests Performed For: IKEA OF SWEDEN AB

BOX 702

SE-343 81, ÄLMHULT, SWEDEN

Issue Date: 2021/07/23

Product Name: WIRELESS DEVICE

Model Number Tested: E1915

Sample Serial Number: NA 2105K 542A1B51DB466

Applicable Standards: FCC 47 CFR PART 15 SUBPART B

ICES-003 ISSUE 7:2020

Date Test Item Received: 2021/06/29

Testing Start Date: 2021/06/30

Date Testing Complete: 2021/07/01

Overall Results: Compliant

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, any agency of the Federal Government, or any agency of the U.S. government.

*This report contains data that are not covered by the A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the A2LA websites referenced at the end of this report.

Report Directory

1.0	SUMMARY	5
1.1	Deviations from standard test methods	5
1.2	Device Modifications Necessary for Compliance	5
1.3	Applicable Standards	5
1.4	Summary of Tests	6
2.0	DECISION RULES AND MEASUREMENT UNCERTAINTY	7
2.1	Metrological Traceability	7
2.2	Decision Rules	7
2.3	Measurement Uncertainty	7
2.4	Sample Calculation	7
3.0	GENERAL - Product Description	8
3.1	Equipment Description	8
3.2	Equipment Marking Plate	8
3 3 3	Device Configuration During Test 3.1 Equipment Used During Test: 3.2 Input/Output Ports: 3.3 EUT Internal Operating Frequencies: 3.4 Power Interface: 3.5 Software and Firmware	9 9 10
3.4	Block Diagram:	10
3.5	EUT Configurations	11
3.6	EUT Operation Modes	11
3.7	Rationale for EUT Configurations	11
3.8	Rationale for EUT Mode of Operation	11
4.0	APPLICABLE EMISSIONS LIMITS AND TEST RESULTS	12
4.1	Test Conditions and Results - MAINS TERMINAL - CONDUCTED EMISSIONS	12
4.2	Test Conditions and Results - RADIATED EMISSIONS	15
5.0	SETUP PHOTOS	25
Appen	dix A	28
Faci	ilities, Accreditations and Authorizations	28

Report Revision History

Revision Date	Revision Version	Description	Revised By	Revision Reviewed By
2021/07/08	V1	Initial Issue		Dan Coronia
2021/07/21	V2	Updated Section page 18 to address TCB's question	Tina Chu	Dan Coronia
2021/07/23	V3	Corrected header report number and Added statement on Section 4.2 Supplementary information	Tina Chu	Dan Coronia

 REPORT NO: 13603575-E2V3
 DATE: 2021/07/23

 EUT: WIRELESS DEVICE
 MODEL: E1915

1.0 SUMMARY

All tests were performed in accordance with ANSI C63.4:2014, ICES-003 ISSUE 7: 2020

1.1 Deviations from standard test methods

None

1.2 Device Modifications Necessary for Compliance

None

1.3 Applicable Standards

Standard
FCC 47 CFR PART 15 SUBPART B
ICES-003 ISSUE 7: 2020

1.4 Summary of Tests

This product is considered Class B

Requirement – Test	Result (Compliant / Non- Compliant)	
CONDUCTED EMISSIONS	Complies	
RADIATED EMISSIONS	Complies	

Approved & Released For

UL Verification Services Inc. By:

Dan Coronia Operations Leader Consumer Technology Division

UL Verification Services Inc.

Prepared By:

Adrian Fong Test Engineer Consumer Technology Division UL Verification Services Inc.

Reviewed By:

Tina Chu Senior Project Engineer Consumer Technology Division

UL Verification Services Inc.

2.0 DECISION RULES AND MEASUREMENT UNCERTAINTY

2.1 Metrological Traceability

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards

2.2 Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement).

2.3 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	U _{lab}
Worst Case Conducted Disturbance, 9KHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9KHz to 30 MHz	2.84 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB

Uncertainty figures are valid to a confidence level of 95%.

2.4 Sample Calculation

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) - Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB - 26.9 dB = 28.9 dBuV/m

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

 $36.5 \, dBuV + 0 \, dB + 10.1 \, dB + 0 \, dB = 46.6 \, dBuV$

REPORT NO: 13603575-E2V3	DATE: 2021/07/23
EUT: WIRELESS DEVICE	MODEL: E1915

3.0 GENERAL - Product Description

3.1	Equipment Description				
	EUT is a wireless device contains a certified module FCC ID: FHO-920-00632, IC: 10912A-92000632.				
3.2	Equipment Marking Plate				
	Not available.				

3.3 **Device Configuration During Test**

3.3.1 **Equipment Used During Test:**

Use	Product Type	Manufacturer	Model	Comments		
EUT	Wireless Device	IKEA	E1922	None		
AE	Router	ASUS	RT-AC68U	Outside the chamber in the control room during radiated emission test.		
AE	Tablet	Samsung	SM-T290	Outside the chamber in the control room during radiated emission test.		
AE	Ferrite	KGS	GRFC-10	Outside the chamber in the control room during radiated emission test.		
Note: EUT - Equipment Under Test, AE - Auxiliary/Associated Equipment, or SIM - Simulator (Not Subjected to Test)						

Input/Output Ports: 3.3.2

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	_	_	None
1	Mains	AC	Υ	N	None
1	Router adapter	DC	N	N	None
1	RJ45 (CAT5)	I/O	Y	N	50 foot cable. Radiated emission test. EUT to router
1	RJ45 (CAT5)	I/O	Y	N	20 foot cable. AC Power Line conducted emission test. EUT to router

*Note:

= AC Power Port DC = DC Power Port N = Signal Input or Output Port (Not Involved in Process Control) N/E = Non-Electrical

AC I/O TP = Telecommunication Ports

3.3.3 EUT Internal Operating Frequencies:

Frequency (MHz)	Description
5825	Highest operating frequency

3.3.4 Power Interface:

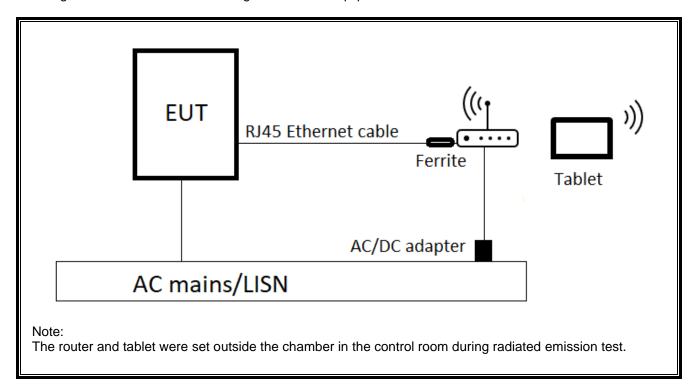
Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	100-240	1	120	50/60	Single	
1	120 Vac	-	-	60Hz	Single	

3.3.5 Software and Firmware

Software version is: 20.0f1. The software is: Sonos GUI.

3.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



3.5 EUT Configurations

Configuration #	Description
1	EUT was configured for normal operation. RJ45 port of EUT is terminated with ethernet cable which was connected to a router. The router connected with a tablet wirelessly.

3.6 EUT Operation Modes

Mode of Operation#	Description
1	EUT was powered on and placed in its normal operating mode, EUT is configured for household mode and playing pink noise audio. EUT and router was communicating via RJ45 port. The router communicated with tablet wirelessly.

3.7 Rationale for EUT Configurations

Configuration #	Description
1	The selected EUT configuration was chosen to maximize emissions.

3.8 Rationale for EUT Mode of Operation

Mode of Operation #	Description
1	The selected EUT mode of operation was chosen to maximize emissions.

 REPORT NO: 13603575-E2V3
 DATE: 2021/07/23

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 MODEL: E1915

4.0 APPLICABLE EMISSIONS LIMITS AND TEST RESULTS

4.1 Test Conditions and Results - MAINS TERMINAL - CONDUCTED EMISSIONS

Test throu				connected to the system easurements on mains lines
Test Standards	·	ANSI C63.4-2014 ICES-003 ISSUE 7: 202	20	
Test Engineer		19497 AF		
Test Date		2021/07/01		
Laboratory Param	eters	Required prior to t	he test	During the test
Ambient Tempera	ture	10 to 40 °C		24.1 °C
Humidity		10 % to 90 %		43%
		Frequency range on each side of line		Measurement Point
Fully configured state the following frequency	ample scanned over lency range	150kHz to 30MHz		Mains
		Limits - Class B		
Frequency (MHz)		Limit (dBµV)	
Frequency (MHZ)	Qu	asi-Peak		Average
0.15-0.5	6	6 to 56		56 to 46
0.5-5		56		46
5-30		60 50		50
Supplementary int	ormation: None			

Conducted Emissions EUT Configuration Settings

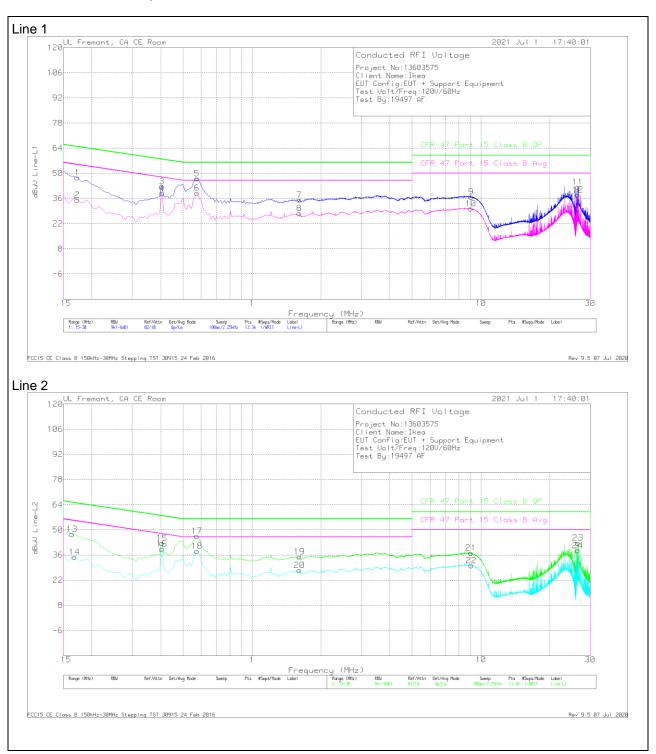
Power Interface #	EUT Configurations #	EUT Mode of Operation#
1	1	1
Supplementary information: None		

Conducted Emissions Test Equipment

	Test Equipment List										
Description	Manufacturer	Model	Local ID (T No.)	Cal Date	Cal Due						
LISN	Fischer Custom Communications, Inc	FCC-LISN-50/250-25-2-01-480V	PRE0186446	2021/01/20	2022/01/20						
EMI TEST RECEIVER	Rohde & Schwarz	ESR	T1436	2021/02/19	2022/02/19						
Transient Limiter	COM-POWER	LIT-930A	PRE0213145	2021/01/20	2022/01/20						
AC Line Conducted Software	UL	UL EMC	Ver 9.5, July 0	7, 2020							

Results - 120 V, 60 Hz

Conducted Emissions Graph



Conducted Emissions Data Points

Line-L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	PRE018644 6 L1	LC Cables C1&C3 dB	TekBox Limiter TBFL1 Model 207	Corrected Reading dBuV	CFR 47 Part 15 Class B QP	QP Margin (dB)	CFR 47 Part 15 Class B Avg	Av(CISPR)M argin (dB)
1	.1725	38.22	Qp	0	0	9.4	47.62	64.84	-17.22	-	-
2	.1725	25.92	Ca	0	0	9.4	35.32	-	-	54.84	-19.52
3	.40425	33.37	Qp	0	0	9.3	42.67	57.77	-15.1	-	-
4	.40425	29.65	Ca	0	0	9.3	38.95	-	-	47.77	-8.82
5	.57525	37.85	Qp	0	0	9.3	47.15	56	-8.85	-	-
6	.57525	29.79	Ca	0	0	9.3	39.09	-	-	46	-6.91
7	1.6125	25.9	Qp	0	.1	9.3	35.3	56	-20.7	-	-
8	1.6125	18.31	Ca	0	.1	9.3	27.71	-	-	46	-18.29
9	9.06225	27.52	Qp	0	.2	9.3	37.02	60	-22.98	-	-
10	9.033	20.81	Ca	0	.2	9.3	30.31	-	-	50	-19.69
11	26.48625	32.84	Qp	0	.3	9.3	42.44	60	-17.56	-	-
12	26.48625	28.42	Ca	0	.3	9.3	38.02	-	-	50	-11.98

Line-L2 .15 - 30MHz

Marker	Frequency	Meter	Det	PRE018644	LC Cables	TekBox	Corrected	CFR 47 Part	QP Margin	CFR 47 Part	Av(CISPR)M
	(MHz)	Reading		6 L2	C2&C3 dB	Limiter	Reading	15 Class B	(dB)	15 Class B	argin
		(dBuV)				TBFL1 Model 207	dBuV	QP		Avg	(dB)
13	.1635	38.31	Qp	0	0	9.4	47.71	65.28	-17.57	_	-
14	.168	25.51	Ca	0	0	9.4	34.91	-	-	55.06	-20.15
15	.40425	33.31	Qp	0	0	9.3	42.61	57.77	-15.16	-	-
16	.40425	30.13	Ca	0	0	9.3	39.43	-	-	47.77	-8.34
17	.57525	37.21	Qp	0	0	9.3	46.51	56	-9.49	-	-
18	.57525	28.95	Ca	0	0	9.3	38.25	-	-	46	-7.75
19	1.6125	25.73	Qp	0	.1	9.3	35.13	56	-20.87	-	-
20	1.6125	18.19	Ca	0	.1	9.3	27.59	-	ı	46	-18.41
21	9.0285	27.6	Qp	0	.2	9.3	37.1	60	-22.9	-	-
22	9.0555	20.64	Ca	0	.2	9.3	30.14	-	1	50	-19.86
23	26.48625	33.08	Qp	.1	.3	9.3	42.78	60	-17.22	-	-
24	26.48625	28.81	Ca	.1	.3	9.3	38.51	-	-	50	-11.49

Qp - Quasi-Peak detector Ca - CISPR average detection

4.2 Test Conditions and Results - RADIATED EMISSIONS

Test Description	Measurements were made in a 3-meter/10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 3 meter/10-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.							
Test Standar		ANSI C63.4-2014						
Test Engine		19497 AF						
Test Date		2021/06/30 and 2021/07/01						
Laboratory F		Required prior to the test	During the test					
Ambient Ten	nperature	10 to 40 °C	23.8 °C					
Humidity		10 % to 90 %	44%					
		Frequency range	Measurement Point					
	red sample scanned owing frequency range	30MHz to 40GHz	3 Meter measurement distance					
		Limits - Class B						
Freq	uency (MHz)	Frequency (N	1Hz)					
F	CC Limits for radiated	disturbance of Class B ITE at measur	ing distance of 3 m					
		Quasi-Peak	Average					
	30-88	40	NA					
	88-216	43.5	NA					
	216-960	46	NA					
Д	bove 960	54	NA					
		Peak	Average					
Ab	ove 1 GHz	74	54					
IS	SED Limits for radiated	disturbance of Class B ITE at measu	ring distance of 3 m					
		Quasi-Peak	NA					
	30-88	40	NA					
	88-216	43.5	NA					
	216-230	46	NA					
	230-960	47	NA					
A	bove 960	54	NA					
		Peak	Average					
Δł	oove 1GHz	74	54					

Radiated Emissions EUT Configuration Settings

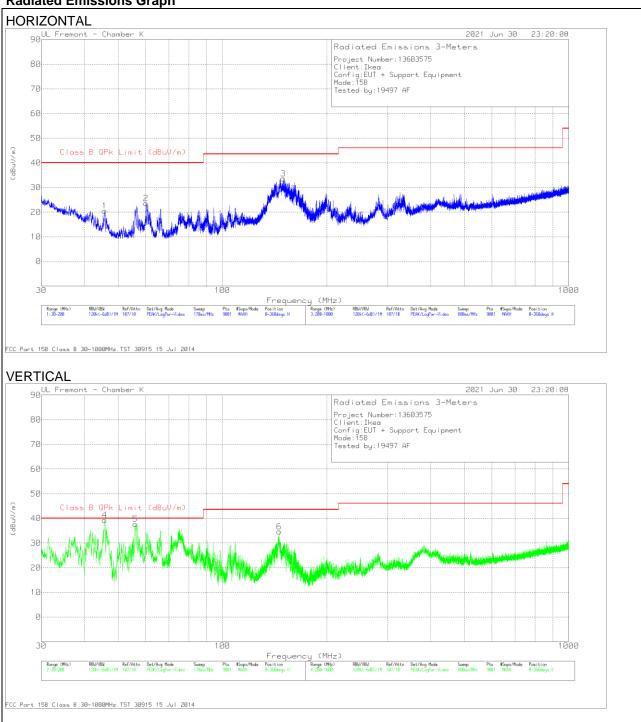
Power Interface #	EUT Configurations #	EUT Mode of Operation#
1	1	1
Supplementary information: None		

Radiated Emissions Test Equipment

	Test Equipment List										
Description	Manufacturer	Model	Local ID (T No.)	Cal Date	Cal Due						
Antenna, Broadband Hybrid, 30MHz to 2GHz	Sunol Sciences Corp.	JB3	T477(AF 81560)	2020/09/24	2021/09/24						
Amplifier, 9KHz to 1GHz, 32dB	SONOMA INSTRUMENT	310	175953	2021/01/21	2022/01/21						
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	T863	2020/08/31	2021/08/31						
Amplifier, 100MHz-18GHz	AMPLICAL	AMP0.1G18-47-20	PRE0197319	2021/04/08	2022/04/08						
Filter, BRF 2400 to 2500 MHz	MICRO-TRONICS	BRM50702-02	204778	2021/06/21	2022/06/21						
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	PRE0179367	2021/02/21	2022/02/21						
Antenna, Horn 18 to 26.5GHz	ARA	MWH-1826/B	T447	2020/09/24	2021/09/24						
Amplifier, 1 to 26.5GHz, 23.5dB Gain minimum	Keysight Technologies Inc	8449B	T404	2021/04/19	2022/04/19						
Antenna, Horn 26.5 to 40GHz	ARA	MWH-2640/B	T446	2020/09/24	2021/09/24						
Amplifier, 26 - 40GHz	MITEQ	TTA2640-35-HG	T1864	2021/04/19	2022/04/19						
Radiated Software	UL	UL EMC		9.5, April 30, 2 ct 21, 2019 (ab							

RADIATED EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

Radiated Emissions Graph



REPORT NO: 13603575-E2V3 DATE: 2021/07/23

EUT: WIRELESS DEVICE MODEL: E1915

Radiated Emissions Data Points

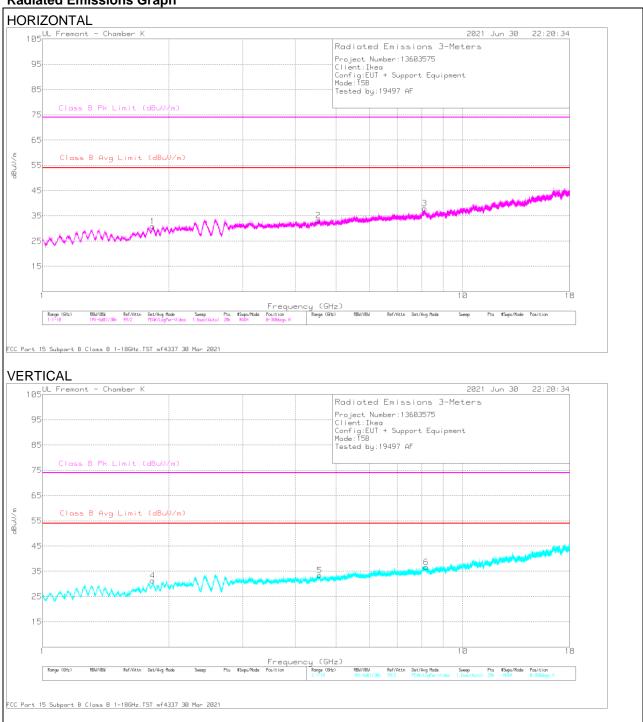
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF 81560 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	Class B QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	45.7345	35.45	Pk	16.5	-31.4	20.55	40	-19.45	0-360	99	Н
2	60.2224	41.17	Pk	13.6	-31.2	23.57	40	-16.43	0-360	299	Н
3	149.8129	45.51	Pk	18.7	-30.6	33.61	43.52	-9.91	0-360	199	Н
4	45.74361	53.24	Qp	16.5	-31.4	38.34	40	-1.66	49	95	V
5	56.00876	51.24	Qp	13.5	-31.3	33.44	40	-6.56	47	97	V
6	145.7896	46.48	Pk	18.8	-30.6	34.68	43.52	-8.84	0-360	95	V

Pk - Peak detector

Qp - Quasi-Peak detector

RADIATED EMISSIONS 1000 TO 18,000 MHz - FCC

Radiated Emissions Graph



 REPORT NO: 13603575-E2V3
 DATE: 2021/07/23

 EUT: WIRELESS DEVICE
 MODEL: E1915

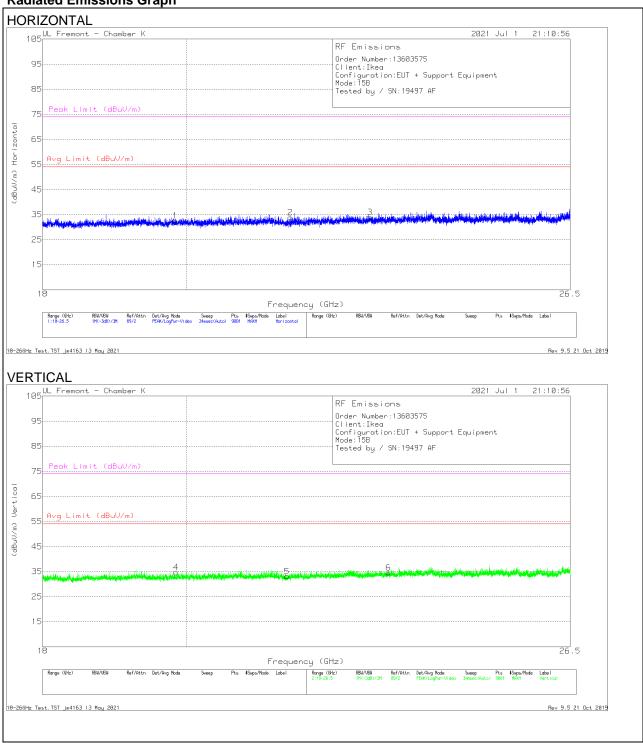
Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl (dB)	BRF 204778 (dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.83193	56.19	Pk	30.6	-45.8	1	41.99	-	-	74	-32.01	190	355	Н
	1.83193	42.3	Av	30.6	-45.8	1	28.1	54	-25.9	-	-	190	355	Н
2	4.53966	50.43	Pk	34.2	-41.4	1	44.23	-	-	74	-29.77	356	188	Н
	4.53966	36.29	Av	34.2	-41.4	1	30.09	54	-23.91		-	356	188	Н
3	8.12607	48.41	Pk	36.1	-37.3	1	48.21		-	74	-25.79	145	110	Н
	8.12607	34.41	Av	36.1	-37.3	1	34.21	54	-19.79	-	-	145	110	Н
4	1.83292	55.44	Pk	30.7	-45.8	1	41.34	-	-	74	-32.66	245	256	V
	1.83292	42.37	Av	30.7	-45.8	1	28.27	54	-25.73	-	-	245	256	V
5	4.57335	51.12	Pk	34.3	-41.3	1	45.12		-	74	-28.88	155	102	V
	4.57335	36.57	Av	34.3	-41.3	1	30.57	54	-23.43	-	-	155	102	V
6	8.20253	47.14	Pk	36.1	-37.4	1	46.84	-		74	-27.16	58	354	V
	8.20253	33.81	Av	36.1	-37.4	1	33.51	54	-20.49	-	-	58	354	V

Pk - Peak detector Av - Average detection

RADIATED EMISSIONS 18,000 TO 26,000 MHz - FCC

Radiated Emissions Graph



EUT: WIRELESS DEVICE MODEL: E1915

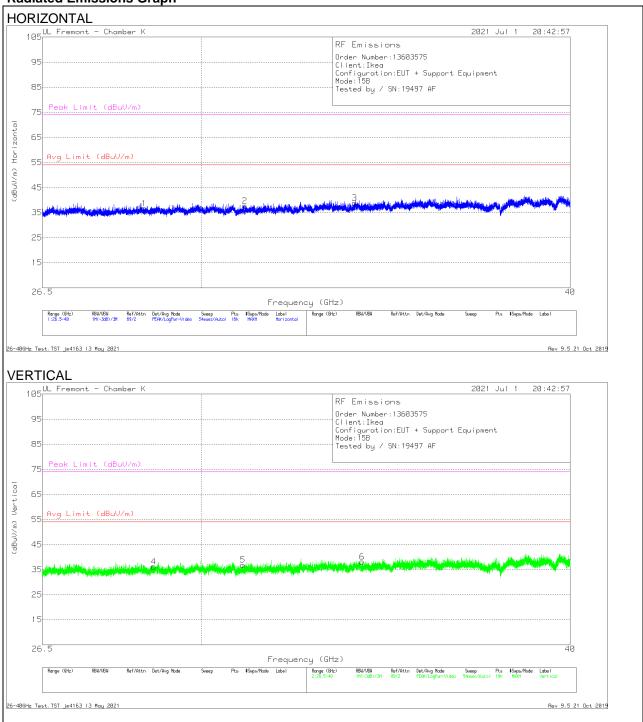
Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T447 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	19.83694	66.41	Pk	32.8	-57.1	-9.5	32.61	54	-21.39	74	-41.39
2	21.58511	67.53	Pk	33.2	-57.4	-9.5	33.83	54	-20.17	74	-40.17
3	22.88561	67	Pk	33.7	-57.3	-9.5	33.9	54	-20.1	74	-40.1
4	19.85111	68.47	Pk	32.8	-57.1	-9.5	34.67	54	-19.33	74	-39.33
5	21.52939	66.47	Pk	33.2	-57.1	-9.5	33.07	54	-20.93	74	-40.93
6	23.19728	67.46	Pk	33.8	-57.2	-9.5	34.56	54	-19.44	74	-39.44

Pk - Peak detector

RADIATED EMISSIONS 26,000 TO 40,000 MHz - FCC

Radiated Emissions Graph



EUT: WIRELESS DEVICE MODEL: E1915

Radiated Emissions Data Points

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	T446 AF (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	28.684	63.22	Pk	36.4	-53.4	-9.5	36.72	54	-17.28	74	-37.28
2	31.03075	64.72	Pk	36.8	-54.3	-9.5	37.72	54	-16.28	74	-36.28
3	33.80425	63.84	Pk	37.8	-53.3	-9.5	38.84	54	-15.16	74	-35.16
4	28.8985	62.15	Pk	36.4	-52.9	-9.5	36.15	54	-17.85	74	-37.85
5	30.98125	63.54	Pk	36.8	-54	-9.5	36.84	54	-17.16	74	-37.16
6	34.00525	64.1	Pk	37.6	-54.1	-9.5	38.1	54	-15.9	74	-35.9

Pk - Peak detector

 REPORT NO: 13603575-E2V3
 DATE: 2021/07/23

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Appendix A

Facilities, Accreditations and Authorizations

UL LLC is accredited by A2LA, certification #0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA	US0104	2324A	208313
	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA	US0104	22541	208313
\boxtimes	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA	US0104	2324B	208313

END OF TEST REPORT