



Test report No. : 4790218737-US-R2-V0
Page : 1 of 34
Issued date : 2022/7/4
FCC ID : 2APLE18300418

RADIO TEST REPORT

Product : Cellular and Battery Backup
Model Name : LBB1001
FCC ID : 2APLE18300418
Test Regulation : FCC 47 CFR Part 22, Subpart H
Received Date : 2022/3/31
Test Date : 2022/4/6 ~ 2022/4/12 & 2022/6/24 ~ 2022/6/30
Issued Date : 2022/7/4

Applicant : Arlo Technologies Inc
2200 Faraday Avenue, Suite 150, Carlsbad, CA 92008, USA

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan



Testing Laboratory

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Doc No: 17-EM-F0912 / 6.0



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1. Attestation of Test Results

APPLICANT: Arlo Technologies Inc
 2200 Faraday Avenue, Suite 150, Carlsbad, CA 92008, USA

MANUFACTURER: Funing Precision Component Co., Ltd.
 Lot B, Que Vo Industrial Zone, Van Duong Ward, Bac Ninh City,
 Bac Ninh Province, Vietnam

EUT DESCRIPTION: Cellular and Battery Backup

BRAND: Arlo

MODEL: LBB1001

SAMPLE STAGE: Engineering Verification Test sample

DATE of TESTED: 2022/4/6 ~ 2022/4/12 & 2022/6/24 ~ 2022/6/30

APPLICABLE STANDARDS	
STANDARD	Test Results
FCC 47 CFR PART 22	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. 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 NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:

Cindy Hsin
 Project Handler

Date : 2022/7/4

Approved By:

Kent Liu
 Senior Laboratory Engineer

Date : 2022/7/4

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2. Summary of Test Results

LTE Band 5		
FCC Clause	Test Items	Result
§ 2.1046 § 22.913 (a)	RF Output Power	PASS
§ 2.1049	Occupied Bandwidth	Note 1
§ 2.1055 § 22.355	Frequency Stability	Note 1
§22.917	Band Edge Measurements	Note 1
§ 2.1051 § 22.917	Spurious Emissions at Antenna Terminal	Note 1
§ 2.1053 § 22.917	Radiated Spurious Emission	PASS

Note:

1. This report is a supplementary report, RF module (FCC ID: XMR2020BG95M2) installed to the EUT, the module RF conducted port test results will be submitted as a part of the report for device certification, for more details please refer to declaration letter exhibit.



3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB 971168 D01 Power Meas License Digital Systems v03r01, ANSI C63.26-2015 and ANSI/TIA-603-E.

4. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398.

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5. Measurement Uncertainty

For statement of conformity, accuracy method (Section 8.2.4 and 8.2.5 of ISO Guide 98-4) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

Measurement	Frequency	Uncertainty
Spurious Emissions at Antenna Terminal	9 kHz - 40GHz	± 1.9 dB
Radiated Spurious Emissions up to 1 GHz	30MHz ~ 1000MHz	± 5.0 dB
Radiated Spurious Emissions above 1 GHz	1GHz ~ 40GHz	± 4.6 dB
RF power, conducted	1GHz ~ 18GHz	± 1.1 dB
RF power, radiated	1GHz ~ 18GHz	± 4.8 dB
Occupied Bandwidth	30MHz ~ 40GHz	± 0.12 %
Frequency Stability	30MHz ~ 40GHz	± 0.12 %

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6. Equipment under Test

6.1. Description of EUT

Product	Cellular and Battery Backup
Brand Name	Arlo
Model Name	LBB1001
Normal Voltage	5Vdc From Host 3.6Vdc From Battery
S/N	ABBY227GA00AC
Sample ID	Conducted Test: 4835375 Radiated Test: 4835377

Note :

1. This report was issued based on the re-used report with module report number R1907A0448-R1V2. The RF module of EUT is the same as the FCC ID: XMR2020BG95M2. Therefore, only the output power and worst case of the emission was performed and recorded in this report.
2. The EUT contains following accessory devices:

Product	Brand	Model	Description	P/N
Battery	Arlo	A-15	3.6Vdc,3250mAh	308-50033-01
Battery	Arlo	A-15	3.6Vdc,3250mAh	308-50036-01

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual.

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6.2. Technical Information

Frequency Bands	■ LTE Band 5	824 MHz to 849 MHz (Uplink) 869 MHz to 894 MHz (Downlink)
Modulation Mode	QPSK / 16QAM	

6.3. Emission Designator

Frequency Bands	■ LTE Band 5	BW 1.4 MHz	QPSK	1M11G7D
			16QAM	944KW7D
		BW 3 MHz	QPSK	1M10G7D
			16QAM	953KW7D
		BW 5 MHz	QPSK	1M11G7D
			16QAM	953KW7D
		BW 10 MHz	QPSK	1M12G7D
			16QAM	968KW7D

Note: This data refers to the original module report.

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6.4. Test Condition

Test Item	Test Site No.	Environmental Condition	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	23~26°C/ 55~65%RH	5Vdc	2022/04/06~ 2022/04/12	Mike Cai
Radiated Spurious Emission	966-2	23~26°C/ 55~65%RH	5Vdc	2022/04/06~ 2022/04/12 & & 2022/6/24 ~ 2022/6/30	Mike Cai

FCC Test Firm Registration Number: 498077

6.5. Description of Available Antennas

Band	Antenna Type	Antenna Gain(dBi)
LTE Band 5	PIFA	4.13

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual.

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6.6. Test Mode Applicability and Tested Channel Detail

- The EUT has two power source types: 3.6Vdc from battery and 5Vdc from Host, above two types were pre-tested, the worst case was found in the 5Vdc. Therefore only the test data of the 5Vdc was recorded in this report.
- The fundamental of the EUT was investigated in three orthogonal axes X-Y/Y-Z/X-Z, it was determined that X-Y plane was worst-case. Therefore, all final radiated testing was performed with the EUT in X-Y plane.
- The modulation and bandwidth are similar for QPSK mode and 16-QAM mode, the worst case was found in QPSK mode, therefore for radiated emission investigated QPSK mode to representative in test report.
- The LTE mode 1RB has the highest power, the radiated emission test is all using this mode for testing. (Except the highest BW add Full RB tested)
- For below 1 GHz radiated emission have performed all modes of operation were investigated and the worst-case channel for emissions are reported.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	MODULATION	MODE	Test Axis
RF Power Output	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
Radiated Emission	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK	1 RB	X-Y Plane
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB	X-Y Plane
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB & Full RB	X-Y Plane

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7. Test Equipment

Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date
Radiated Spurious Emission					
Spectrum Analyzer	Keysight	N9010A	MY56070827	2021/11/9	2022/11/8
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	2021/12/10	2022/12/9
Loop Antenna	ETS lindgren	6502	00213440	2021/12/23	2022/12/22
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck	VULB 9168 & N-6-05	774 & AT-N0538	2022/2/8	2023/2/7
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck	VULB 9168 & N-6-05	9168-774 & AT-N0538	2022/2/8	2023/2/7
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	2021/12/13	2022/12/12
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01686	2021/12/13	2022/12/12
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	2021/12/17	2022/12/16
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	759	2021/12/1	2022/11/30
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	2021/6/8	2022/6/7
				2022/6/7	2023/6/6
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	2022/2/16	2023/2/15
Preamplifier (18-40GHz)	EMCI	EMC184040SEE	980426	2021/5/19	2022/5/18
				2022/5/17	2023/5/16
Signal Generator	Keysight	N5173B	MY53271122	2022/1/18	2023/1/17
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-4 & 170425-2	2021/12/3	2022/12/2
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-1 & 170214-2	2021/12/3	2022/12/2
Radio Communication Analyzer	Rohde & Schwarz	CMW500	161064	2021/11/21	2022/11/20

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Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Expired date
Antenna Port Conducted Measurement					
Spectrum Analyzer	Keysight	N9010A	MY56070834	2021/10/29	2022/10/28
Pulse Power Sensor	Anritsu	MA2411B	1531202	2021/12/22	2022/12/21
Power Meter	Anritsu	ML2495A	1645002	2021/12/22	2022/12/21
Temperature & Humidity Test Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA1701-010	2022/3/11	2023/3/10
Radio Communication Analyzer	Rohde & Schwarz	CMW500	161064	2021/11/21	2022/11/20

UL Software		
Description	Name	Version
Radiated measurement	e3	6.191211 (V6)
Conducted measurement	RF Conducted Test Tools	ver 2.4.0.620b

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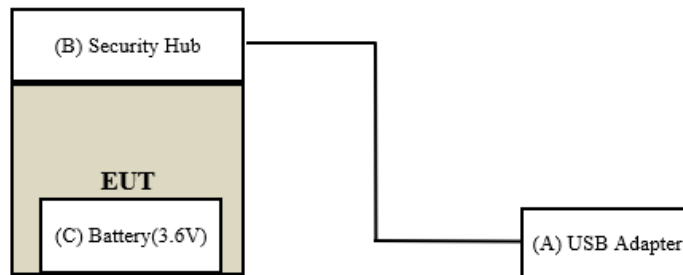


8. Description of Test Setup

Support Equipment

ID	Equipment	Brand Name	Model Name	S/N	Remark
A	USB Adapter	Arlo	AD2158	NA	Provided by Client
B	Security Hub	Arlo	SH1001	AB5U217LA00D0	Provided by Client
C	Battery	Arlo	A-15	ABK117AD000D6	Provided by Client

Setup Diagram for Test



Under Table

Remote Site

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9. Test Results

9.1. RF Output Power

Requirements

Mobile / Portable station are limited to 7 watts e.r.p.

Test procedure

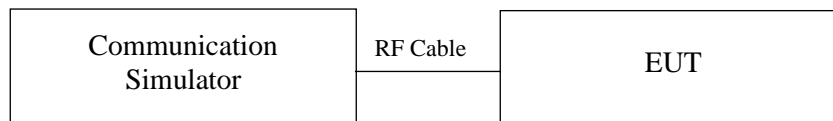
Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA / LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and difference RB size/ RB offset for difference bandwidth record the power level shown on power meter.

EIRP / ERP Measurement:

- a. $EIRP = \text{Conducted Output power level} + \text{Antenna gain}$.
- b. ERP power can be calculated form EIRP power by subtracting the gain of dipole, $ERP \text{ power} = EIPR \text{ power} - 2.15dBi$.
- c. $ERP = \text{Conducted Output power level} + \text{Antenna gain (dBi)} - \text{Isotropically Factor (2.15dB)}$.

Test Setup



The loss between RF output port of the EUT and the input port of the tester has been taken into consideration.

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Test Results

Band 5

Bandwidth (MHz)	Channel	Frequency (MHz)	Index	RB	Conducted Power (dBm)		ERP	
					QPSK	16QAM	QPSK	16QAM
1.4M	20407	824.7	0	1#0	19.98	18.13	21.96	20.11
			0	6#0	17.44	18.35	19.42	20.33
	20525	836.5	0	1#0	20.47	18.63	22.45	20.61
			0	6#0	17.97	18.88	19.95	20.86
	20643	848.3	0	1#5	20.21	18.8	22.19	20.78
			0	6#0	18.02	18.82	20	20.8
3M	20415	825.5	0	1#0	19.77	18.42	21.75	20.4
			0	6#0	17.62	18.04	19.6	20.02
	20525	836.5	0	1#0	20.31	18.96	22.29	20.94
			0	6#0	18.2	18.54	20.18	20.52
	20635	847.5	1	1#5	20.06	18.79	22.04	20.77
			1	6#0	18.06	18.3	20.04	20.28
5M	20425	826.5	0	1#0	19.84	19.4	21.82	21.38
			0	6#0	18.86	19.01	20.84	20.99
	20525	836.5	0	1#0	20.14	19.81	22.12	21.79
			0	6#0	19.18	19.34	21.16	21.32
	20625	846.5	3	1#5	20.11	19.57	22.09	21.55
			3	6#0	19.19	19.32	21.17	21.3
10M	20450	829	0	1#0	19.52	20.2	21.5	22.18
			0	4#0	19.8	19.55	21.78	21.53
	20525	836.5	0	1#0	20.03	19.58	22.01	21.56
			0	4#0	20.02	20.45	22	22.43
	20600	844	7	1#5	19.87	20.18	21.85	22.16
			7	4#2	20.26	19.77	22.24	21.75

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9.2. Radiated Spurious Emission

Requirements

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit is equal to -13 dBm.

Test procedure

- a. The power was measured with Spectrum Analyzer.
- b. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. Follow ANSI 63.26 section 5.2.7 d), $EIRP \text{ Value (dBm)} = \text{Read Value (dB}\mu\text{V/m)} - \text{Correction Factor @ 3m}$
- d. $\text{Correction Factor (dB) @ 3M} = 20\log(D) - 104.8$; where D is the measurement distance @3m = -95.26dB
- e. ERP power can be calculated form EIRP power by subtracting the gain of dipole, ERP power = EIRP power - 2.15dBi.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

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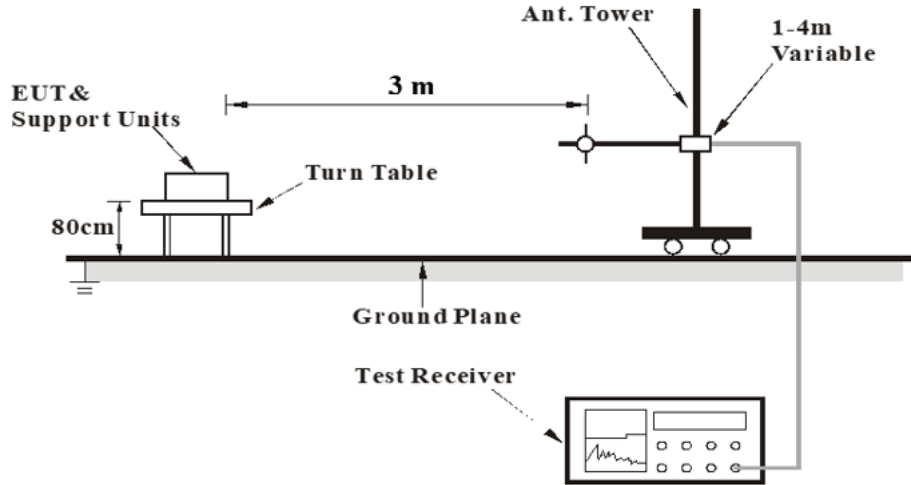
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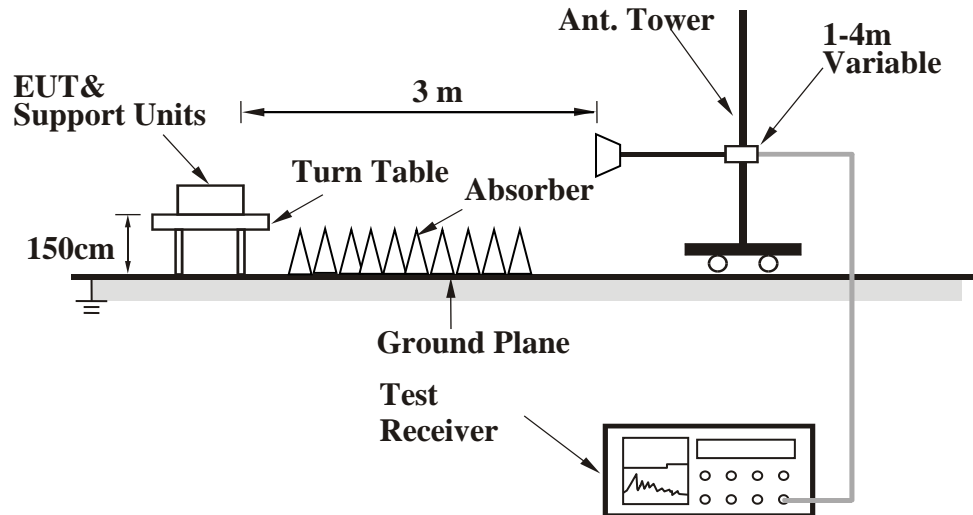
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Test Setup

<Frequency Range 30 MHz ~ 1 GHz >



<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations



Test Results

LTE Band 5

- Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier.
- The emission levels of other frequencies are very lower than the limit and not show in test report (inclusion 10 times harmonic).

EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	824.7		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1649.4	55.01	-95.26	-40.25	-13	-27.25
2	2474.1	52.93	-95.26	-42.33	-13	-29.33
3	3298.8	44.15	-95.26	-51.11	-13	-38.11
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1649.4	53.24	-95.26	-42.02	-13	-29.02
2	2474.1	55.59	-95.26	-39.67	-13	-26.67
3	3298.8	40.15	-95.26	-55.11	-13	-42.11

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	836.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	56.97	-95.26	-38.29	-13	-25.29
2	2509.5	53.54	-95.26	-41.72	-13	-28.72
3	3346	44.71	-95.26	-50.55	-13	-37.55
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	54.11	-95.26	-41.15	-13	-28.15
2	2509.5	56.16	-95.26	-39.10	-13	-26.10
3	3346	41.3	-95.26	-53.96	-13	-40.96

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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Doc No: 17-EM-F0912 / 6.0



EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	848.3		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1696.6	53.41	-95.26	-41.85	-13	-28.85
2	2544.9	52.43	-95.26	-42.83	-13	-29.83
3	3393.2	42.34	-95.26	-52.92	-13	-39.92
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1696.6	51.39	-95.26	-43.87	-13	-30.87
2	2544.9	53.72	-95.26	-41.54	-13	-28.54
3	3393.2	38.43	-95.26	-56.83	-13	-43.83

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	Frequency Range	Below 1GHz
Frequency (MHz)	836.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	28.44	-95.26	-66.82	-13	-53.82
2	181.32	26.77	-95.26	-68.49	-13	-55.49
3	194.9	32.02	-95.26	-63.24	-13	-50.24
4	242.43	26.94	-95.26	-68.32	-13	-55.32
5	288.02	33.42	-95.26	-61.84	-13	-48.84
6	431.58	27.9	-95.26	-67.36	-13	-54.36
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	107.6	30.7	-95.26	-64.56	-13	-51.56
2	159.98	25.19	-95.26	-70.07	-13	-57.07
3	191.99	24.07	-95.26	-71.19	-13	-58.19
4	252.13	25.12	-95.26	-70.14	-13	-57.14
5	288.02	31.44	-95.26	-63.82	-13	-50.82
6	431.58	28.99	-95.26	-66.27	-13	-53.27

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	826.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1653	59.33	-95.26	-35.93	-13	-22.93
2	2479.5	56.16	-95.26	-39.10	-13	-26.10
3	3306	43.34	-95.26	-51.92	-13	-38.92
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1653	53.16	-95.26	-42.10	-13	-29.10
2	2479.5	47.47	-95.26	-47.79	-13	-34.79
3	3306	41.7	-95.26	-53.56	-13	-40.56

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	836.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	59.94	-95.26	-35.32	-13	-22.32
2	2509.5	57.29	-95.26	-37.97	-13	-24.97
3	3346	44.51	-95.26	-50.75	-13	-37.75
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	55.02	-95.26	-40.24	-13	-27.24
2	2509.5	49.03	-95.26	-46.23	-13	-33.23
3	3346	43.53	-95.26	-51.73	-13	-38.73

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	846.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693	57.84	-95.26	-37.42	-13	-24.42
2	2539.5	54.85	-95.26	-40.41	-13	-27.41
3	3386	42.25	-95.26	-53.01	-13	-40.01
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693	52.03	-95.26	-43.23	-13	-30.23
2	2539.5	46.55	-95.26	-48.71	-13	-35.71
3	3386	40.14	-95.26	-55.12	-13	-42.12

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Below 1GHz
Frequency (MHz)	836.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	29.23	-95.26	-66.03	-13	-53.03
2	159.98	25.05	-95.26	-70.21	-13	-57.21
3	191.99	30.87	-95.26	-64.39	-13	-51.39
4	244.37	27.03	-95.26	-68.23	-13	-55.23
5	288.02	32.74	-95.26	-62.52	-13	-49.52
6	399.57	26.8	-95.26	-68.46	-13	-55.46
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	107.6	31.28	-95.26	-63.98	-13	-50.98
2	159.98	27.05	-95.26	-68.21	-13	-55.21
3	252.13	24.38	-95.26	-70.88	-13	-57.88
4	288.02	31.2	-95.26	-64.06	-13	-51.06
5	431.58	29.8	-95.26	-65.46	-13	-52.46
6	505.3	28.33	-95.26	-66.93	-13	-53.93

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	10MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	829		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1658	57.12	-95.26	-38.14	-13	-25.14
2	2487	55.83	-95.26	-39.43	-13	-26.43
3	3316	43.45	-95.26	-51.81	-13	-38.81
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1658	54.73	-95.26	-40.53	-13	-27.53
2	2487	46.6	-95.26	-48.66	-13	-35.66
3	3316	40.03	-95.26	-55.23	-13	-42.23

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	10MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	836.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	58.56	-95.26	-36.70	-13	-23.70
2	2509.5	57.14	-95.26	-38.12	-13	-25.12
3	3346	45.38	-95.26	-49.88	-13	-36.88
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	56.05	-95.26	-39.21	-13	-26.21
2	2509.5	47.96	-95.26	-47.30	-13	-34.30
3	3346	42.01	-95.26	-53.25	-13	-40.25

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	10MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	844		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1688	56.26	-95.26	-39.00	-13	-26.00
2	2532	54.05	-95.26	-41.21	-13	-28.21
3	3376	41.7	-95.26	-53.56	-13	-40.56
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1688	54.06	-95.26	-41.20	-13	-28.20
2	2532	44.66	-95.26	-50.60	-13	-37.60
3	3376	39.35	-95.26	-55.91	-13	-42.91

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	10MHz / 1RB	Frequency Range	Below 1GHz
Frequency (MHz)	836.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	107.6	28.25	-95.26	-67.01	-13	-54.01
2	180.35	26.56	-95.26	-68.70	-13	-55.70
3	195.87	30.82	-95.26	-64.44	-13	-51.44
4	243.4	26.44	-95.26	-68.82	-13	-55.82
5	288.02	33.21	-95.26	-62.05	-13	-49.05
6	431.58	27.27	-95.26	-67.99	-13	-54.99
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	107.6	30.85	-95.26	-64.41	-13	-51.41
2	159.98	25.37	-95.26	-69.89	-13	-56.89
3	251.16	24.97	-95.26	-70.29	-13	-57.29
4	288.02	31.77	-95.26	-63.49	-13	-50.49
5	431.58	29.66	-95.26	-65.60	-13	-52.60
6	491.72	29.15	-95.26	-66.11	-13	-53.11

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	10MHz / FRB	Frequency Range	Above 1 GHz
Frequency (MHz)	829		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1658	56.22	-95.26	-39.04	-13	-26.04
2	2487	54.09	-95.26	-41.17	-13	-28.17
3	3316	42.91	-95.26	-52.35	-13	-39.35
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1658	53.53	-95.26	-41.73	-13	-28.73
2	2487	45.79	-95.26	-49.47	-13	-36.47
3	3316	39.5	-95.26	-55.76	-13	-42.76

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	10MHz / FRB	Frequency Range	Above 1 GHz
Frequency (MHz)	836.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	57.39	-95.26	-37.87	-13	-24.87
2	2509.5	55.2	-95.26	-40.06	-13	-27.06
3	3346	44.07	-95.26	-51.19	-13	-38.19
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	55.42	-95.26	-39.84	-13	-26.84
2	2509.5	47.32	-95.26	-47.94	-13	-34.94
3	3346	41.38	-95.26	-53.88	-13	-40.88

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	10MHz / FRB	Frequency Range	Above 1 GHz
Frequency (MHz)	844		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1688	54.64	-95.26	-40.62	-13	-27.62
2	2532	53.53	-95.26	-41.73	-13	-28.73
3	3376	39.89	-95.26	-55.37	-13	-42.37
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1688	52.79	-95.26	-42.47	-13	-29.47
2	2532	44.1	-95.26	-51.16	-13	-38.16
3	3376	37.62	-95.26	-57.64	-13	-44.64

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	10MHz / FRB	Frequency Range	Below 1GHz
Frequency (MHz)	836.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.3	26.27	-95.26	-68.99	-13	-55.99
2	178.66	25.99	-95.26	-69.27	-13	-56.27
3	194.89	28.92	-95.26	-66.34	-13	-53.34
4	242.39	24.96	-95.26	-70.30	-13	-57.30
5	286.44	31.5	-95.26	-63.76	-13	-50.76
6	430.08	25.51	-95.26	-69.75	-13	-56.75
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	105.99	30.15	-95.26	-65.11	-13	-52.11
2	158.38	23.86	-95.26	-71.40	-13	-58.40
3	250.04	23.36	-95.26	-71.90	-13	-58.90
4	287.13	30.23	-95.26	-65.03	-13	-52.03
5	430.22	28.32	-95.26	-66.94	-13	-53.94
6	490.24	27.3	-95.26	-67.96	-13	-54.96

Remarks:

1. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).
2. EIRP (dBm) = S.G Value (dBm) + Correction Factor (dB).
3. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) + Correction Factor @ 3m.
4. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

END OF REPORT

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Doc No: 17-EM-F0912 / 6.0