



Test report No. : 4790218737-US-R1-V0
Page : 1 of 82
Issued date : Jul. 4, 2022
FCC ID : 2APLE18300418

RADIO TEST REPORT

Product : Cellular and Battery Backup
Model Name : LBB1001
FCC ID : 2APLE18300418
Test Regulation : FCC 47 CFR Part 27, Subpart L, H, F
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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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0916 / 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 27	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 4, 66		
FCC Clause	Test Items	Result
§ 2.1046 § 27.50 (d)(4)	RF Output Power	PASS
§ 27.50 (d)(5)	Peak-to-Average Power Ratio	Note 1
§ 2.1049	Occupied Bandwidth	Note 1
§ 2.1055 § 27.54	Frequency Stability	Note 1
§ 27.53 (h)	Band Edge Measurements	Note 1
§ 2.1051 § 27.53 (h)	Spurious Emissions at Antenna Terminal	Note 1
§ 2.1053 § 27.53 (h)	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.

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LTE Band 12		
FCC Clause	Test Items	Result
§ 2.1046 § 27.50 (c)(10)	RF Output Power	PASS
§ 27.50 (d)(5)	Peak-to-Average Power Ratio	Note 1
§ 2.1049	Occupied Bandwidth	Note 1
§ 2.1055 § 27.54	Frequency Stability	Note 1
§ 27.53 (g)	Band Edge Measurements	Note 1
§ 2.1051 § 27.53 (g)	Spurious Emissions at Antenna Terminal	Note 1
§ 2.1053 § 27.53 (g)	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.

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LTE Band 13		
FCC Clause	Test Items	Result
§ 2.1046 § 27.50 (b)(10)	RF Output Power	PASS
§ 27.50 (d)(5)	Peak-to-Average Power Ratio	Note 1
§ 2.1049	Occupied Bandwidth	Note 1
§ 2.1055 § 27.54	Frequency Stability	Note 1
§ 27.53 (c)(2)(4)	Band Edge Measurements	Note 1
§ 2.1051 § 27.53 (c)(2)	Spurious Emissions at Antenna Terminal	Note 1
§ 2.1053 § 27.53 (c)(2)&(f)	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.

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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-R3V2. 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 4	1710 MHz to 1755 MHz (Uplink) 2110 MHz to 2155 MHz (Downlink)
	■ LTE Band 12	699 MHz to 716 MHz (Uplink) 729 MHz to 746 MHz (Downlink)
	■ LTE Band 13	777 MHz to 787 MHz (Uplink) 746 MHz to 756 MHz (Downlink)
	■ LTE Band 66	1710 MHz to 1780 MHz (Uplink) 2110 MHz to 2200 MHz (Downlink)
Modulation Mode		QPSK / 16QAM

6.3. Emission Designator

Frequency Bands	■ LTE Band 4	BW 1.4 MHz	QPSK	1M11G7D
			16QAM	942KW7D
		BW 3 MHz	QPSK	1M11G7D
			16QAM	946KW7D
		BW 5 MHz	QPSK	1M11G7D
			16QAM	952KW7D
		BW 10 MHz	QPSK	1M12G7D
			16QAM	916KW7D
		BW 15 MHz	QPSK	1M13G7D
			16QAM	957KW7D
		BW 20 MHz	QPSK	1M13G7D
			16QAM	966KW7D
Frequency Bands	■ LTE Band 12	BW 1.4 MHz	QPSK	1M11G7D
			16QAM	941KW7D
		BW 3 MHz	QPSK	1M11G7D
			16QAM	952KW7D
		BW 5 MHz	QPSK	1M11G7D
			16QAM	954KW7D
		BW 10 MHz	QPSK	1M12G7D
			16QAM	963KW7D

Note: This data refers to the original module report.

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Frequency Bands	■ LTE Band 13	BW 5 MHz	QPSK	1M11G7D
			16QAM	950KW7D
		BW 10 MHz	QPSK	1M12G7D
			16QAM	961KW7D
Frequency Bands	■ LTE Band 66	BW 1.4 MHz	QPSK	1M11G7D
			16QAM	939KW7D
		BW 3 MHz	QPSK	1M10G7D
			16QAM	949KW7D
		BW 5 MHz	QPSK	1M11G7D
			16QAM	950KW7D
		BW 10 MHz	QPSK	1M12G7D
			16QAM	965KW7D
		BW 15 MHz	QPSK	1M12G7D
			16QAM	961KW7D
		BW 20 MHz	QPSK	1M13G7D
			16QAM	963KW7D

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 4	PIFA	4.38
LTE Band 12	PIFA	2.40
LTE Band 13	PIFA	4.13
LTE Band 66	PIFA	4.38

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).

Band 4

TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	MODULATION	MODE	Test Axis
RF Power Output	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	19965 to 20385	19965, 20175, 20385	3MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
Radiated Emission	19957 to 20393	19957, 20175, 20393	1.4MHz	QPSK	1 RB	X-Y Plane
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB	X-Y Plane
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB & Full RB	X-Y Plane

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Band 12

TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	MODULATION	MODE	Test Axis
RF Power Output	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
Radiated Emission	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB	X-Y Plane
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB	X-Y Plane
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB & Full RB	X-Y Plane

Band 13

TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	MODULATION	MODE	Test Axis
RF Power Output	23205 to 23255	23205, 23230, 23255	5MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	23230 to 23230	23230	10MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
Radiated Emission	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB	X-Y Plane
	23230 to 23230	23230	10MHz	QPSK	1 RB & Full RB	X-Y Plane

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Band 66

TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	MODULATION	MODE	Test Axis
RF Power Output	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK/16QAM	1RB / 0 RB offset	X-Y Plane
Radiated Emission	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK	1 RB	X-Y Plane
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK	1 RB	X-Y Plane
	132072 to 132572	132072, 132322, 132572	20MHz	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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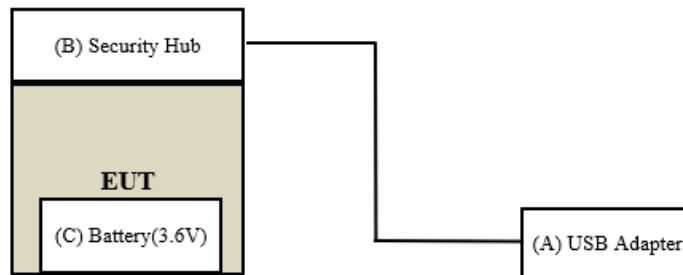


8. Description of Test Setup

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

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watts EIRP.

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

Test procedure

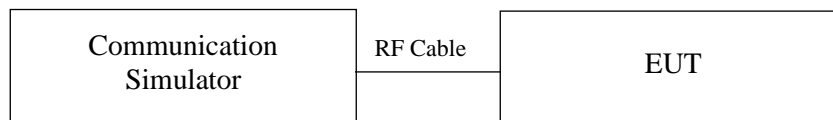
Conducted Power Measurement:

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:

- EIRP = Conducted Output power level + Antenna gain.
- ERP power can be calculated form EIRP power by subtracting the gain of dipole, ERP power = EIPR power - 2.15dBi.
- ERP = Conducted Output power level + Antenna gain (dBi) - 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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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-3-583-7948



Test Results

Band 4

Bandwidth (MHz)	Channel	Frequency (MHz)	Index	RB	Conducted Power (dBm)		EIRP (dBm)	
					QPSK	16QAM	QPSK	16QAM
1.4M	19957	1710.7	0	1#0	19.76	19.17	24.14	23.55
			0	6#0	17.57	17.41	21.95	21.79
	20175	1732.5	0	1#0	20.36	18.86	24.74	23.24
			0	6#0	17.53	17.95	21.91	22.33
	20393	1754.3	0	1#5	20.13	18.44	24.51	22.82
			0	6#0	17.47	17.86	21.85	22.24
3M	19965	1711.5	0	1#0	19.76	18.43	24.14	22.81
			0	6#0	17.53	17.8	21.91	22.18
	20175	1732.5	0	1#0	19.98	18.43	24.36	22.81
			0	6#0	17.62	17.82	22.00	22.20
	20385	1753.5	1	1#5	19.58	18.18	23.96	22.56
			1	6#0	17.71	17.88	22.09	22.26
5M	19975	1712.5	0	1#0	19.85	19.42	24.23	23.8
			0	6#0	18.6	19.09	22.98	23.47
	20175	1732.5	0	1#0	19.91	19.73	24.29	24.11
			0	6#0	18.87	18.88	23.25	23.26
	20375	1752.5	3	1#5	19.69	19.28	24.07	23.66
			3	6#0	18.78	18.77	23.16	23.15
10M	20000	1715	0	1#0	19.83	19.45	24.21	23.83
			0	4#0	19.86	19.97	24.24	24.35
	20175	1732.5	0	1#0	20.06	19.69	24.44	24.07
			0	4#0	18.84	19.87	23.22	24.25
	20350	1750	7	1#5	19.63	19.42	24.01	23.8
			7	4#2	19.79	19.95	24.17	24.33
15M	20025	1717.5	0	1#0	20.05	19.51	24.43	23.89
			0	6#0	19.73	19.82	24.11	24.2
	20175	1732.5	0	1#0	20.03	19.44	24.41	23.82
			0	6#0	19.81	19.98	24.19	24.36
	20325	1747.5	11	1#5	19.75	19.42	24.13	23.8
			11	6#0	19.77	19.98	24.15	24.36
20M	20050	1720	0	1#0	19.89	19.4	24.27	23.78
			0	6#0	19.8	19.99	24.18	24.37
	20175	1732.5	0	1#0	19.9	19.4	24.28	23.78
			0	6#0	19.85	20.08	24.23	24.46
	20300	1745	15	1#5	19.61	19.54	23.99	23.92
			15	6#0	19.89	19.95	24.07	24.29

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Band 12

Bandwidth (MHz)	Channel	Frequency (MHz)	Index	RB	Conducted Power (dBm)		ERP (dBm)	
					QPSK	16QAM	QPSK	16QAM
1.4M	23017	824.7	0	1#0	19.83	19.35	20.08	19.6
			0	6#0	18.11	17.98	18.36	18.23
	23095	707.5	0	1#0	20.33	18.57	20.58	18.82
			0	6#0	17.88	18.34	18.13	18.59
	23173	848.3	0	1#5	19.37	19.14	19.62	19.39
			0	6#0	18.08	17.79	18.33	18.04
3M	23025	700.5	0	1#0	20.2	18.79	20.45	19.04
			0	6#0	17.95	18.3	18.2	18.55
	23095	707.5	0	1#0	20.21	18.88	20.46	19.13
			0	6#0	17.87	18.36	18.12	18.61
	23165	714.5	1	1#5	19.91	18.7	20.16	18.95
			1	6#0	17.67	18.12	17.92	18.37
5M	23035	701.5	3	1#0	20.15	19.74	20.4	19.99
			0	6#0	19.03	19.23	19.28	19.48
	23095	707.5	0	1#0	20.11	19.76	20.36	20.01
			0	6#0	19.15	19.24	19.4	19.49
	23155	713.5	3	1#5	19.74	19.42	19.99	19.67
			3	6#0	19.05	19.32	19.3	19.57
10M	23060	704	3	1#0	20.11	19.68	20.36	19.93
			0	4#0	20.26	20.27	20.51	20.52
	23095	707.5	0	1#0	20.03	19.61	20.28	19.86
			0	4#0	20.06	20.25	20.31	20.5
	23130	711	4	1#5	20.13	19.69	20.38	19.94
			7	4#2	20.14	20.38	20.39	20.63

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Band 13

Bandwidth (MHz)	Channel	Frequency (MHz)	Index	RB	Conducted Power (dBm)		ERP (dBm)	
					QPSK	16QAM	QPSK	16QAM
5M	23305	779.5	0	1#0	19.78	20.19	21.76	22.17
			0	6#0	19.09	19.27	21.07	21.25
	23230	782	0	1#0	20.44	19.56	22.42	21.54
			0	6#0	19.07	19.34	21.05	21.32
	23255	784.5	3	1#5	19.89	19.37	21.87	21.35
			3	6#0	19.07	19.28	21.05	21.26
10M	23230	782	0	1#0	19.86	19.58	21.84	21.56
			0	4#0	20.15	20.37	22.13	22.35

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Facsimile (FAX) :+886-3-583-7948

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Band 66

Bandwidth (MHz)	Channel	Frequency (MHz)	Index	RB	Conducted Power (dBm)		EIRP (dBm)	
					QPSK	16QAM	QPSK	16QAM
1.4M	131979	1710.7	0	1#0	20.13	19.73	24.51	24.11
			0	6#0	18.11	17.77	22.49	22.15
	132322	1745	0	1#0	20.11	18.38	24.49	22.76
			0	6#0	17.31	17.77	21.69	22.15
	132665	1779.3	0	1#5	20.15	18.21	24.53	22.59
			0	6#0	17.66	18.59	22.04	22.97
3M	131987	1711.5	0	1#0	20.01	18.75	24.39	23.13
			0	6#0	18.07	18.35	22.45	22.73
	132322	1745	0	1#0	18.14	18.27	22.52	22.65
			0	6#0	17.51	17.65	21.89	22.03
	132657	1778.5	1	1#5	19.71	18.29	24.09	22.67
			1	6#0	17.59	18.13	21.97	22.51
5M	131997	1712.5	0	1#0	19.98	19.79	24.36	24.17
			0	6#0	19.12	19.28	23.5	23.66
	132322	1745	0	1#0	19.64	19.37	24.02	23.75
			0	6#0	18.57	18.43	22.95	22.81
	132647	1777.5	0	1#5	19.6	19.34	23.98	23.72
			3	6#0	18.68	18.99	23.06	23.37
10M	132022	1715	3	1#0	20	19.93	24.38	24.31
			0	4#0	20.04	19.96	24.42	24.34
	132322	1745	0	1#0	19.53	19.4	23.91	23.78
			0	4#0	19.78	19.86	24.16	24.24
	132622	1775	4	1#5	19.05	18.74	23.43	23.12
			7	4#2	19.29	19.32	23.67	23.7
15M	132047	1717.5	3	1#0	20.01	19.83	24.39	24.21
			0	6#0	20.13	20.03	24.51	24.41
	132322	1745	0	1#0	19.66	19.24	24.04	23.62
			0	6#0	19.58	19.56	23.96	23.94
	132597	1772.5	8	1#5	19.49	19.61	23.87	23.99
			11	6#0	19.64	19.68	24.02	24.06
20M	132072	1720	3	1#0	19.98	19.84	24.36	24.22
			0	6#0	20.08	20.12	24.46	24.5
	132322	1745	0	1#0	19.77	19.84	24.15	24.22
			0	6#0	19.47	19.77	23.85	24.15
	132572	1770	12	1#5	19.02	18.74	23.4	23.12
			15	6#0	19.28	19.29	23.66	23.67

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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.

For operations in the 775-788 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. The limit of emissions is equal to -40 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 $= -95.26\text{dB}$
- e. ERP power can be calculated form EIRP power by subtracting the gain of dipole, ERP power = EIRP power - 2.15dBi.

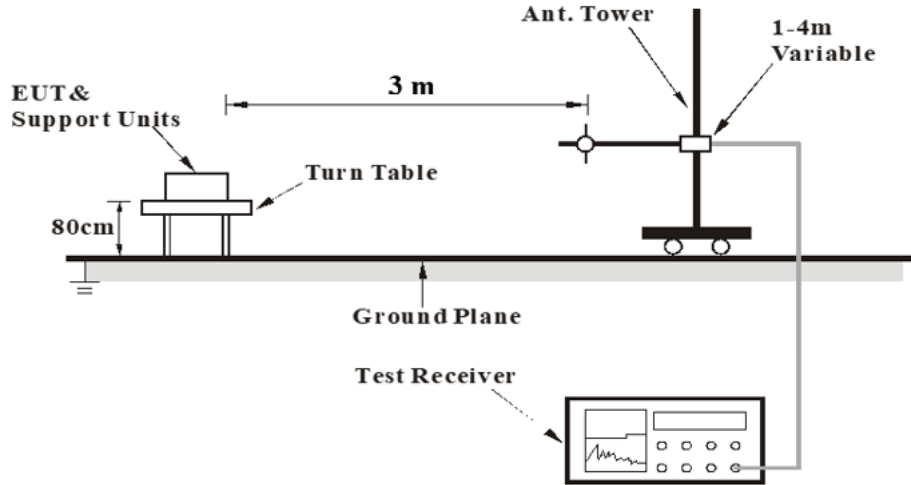
Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.

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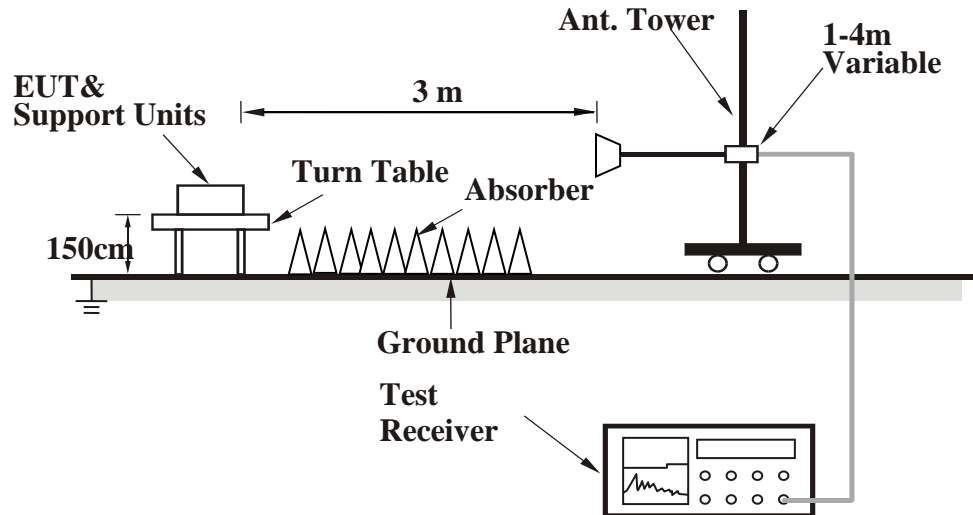
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Facsimile (FAX) : +886-3-583-7948

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 4

- 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)	1710.7		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3421.4	38.17	-95.26	-57.09	-13	-44.09
2	5132.1	38.98	-95.26	-56.28	-13	-43.28
3	6842.8	41.18	-95.26	-54.08	-13	-41.08
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3421.4	39.27	-95.26	-55.99	-13	-42.99
2	5132.1	39.03	-95.26	-56.23	-13	-43.23
3	6842.8	42.69	-95.26	-52.57	-13	-39.57

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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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
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EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1732.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3465	39.01	-95.26	-56.25	-13	-43.25
2	5197.5	40.13	-95.26	-55.13	-13	-42.13
3	6930	41.97	-95.26	-53.29	-13	-40.29
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3465	40.14	-95.26	-55.12	-13	-42.12
2	5197.5	40.36	-95.26	-54.90	-13	-41.90
3	6930	43.2	-95.26	-52.06	-13	-39.06

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)	1754.3		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3508.6	36.69	-95.26	-58.57	-13	-45.57
2	5262.9	37.14	-95.26	-58.12	-13	-45.12
3	7017.2	40.52	-95.26	-54.74	-13	-41.74
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3508.6	37.27	-95.26	-57.99	-13	-44.99
2	5262.9	38.24	-95.26	-57.02	-13	-44.02
3	7017.2	41.06	-95.26	-54.20	-13	-41.20

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)	1732.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	107.6	28.36	-95.26	-66.90	-13	-53.90
2	194.9	31.51	-95.26	-63.75	-13	-50.75
3	214.3	28.45	-95.26	-66.81	-13	-53.81
4	244.37	26.64	-95.26	-68.62	-13	-55.62
5	288.02	33.14	-95.26	-62.12	-13	-49.12
6	491.72	34.97	-95.26	-60.29	-13	-47.29
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	30.84	-95.26	-64.42	-13	-51.42
2	159.98	26.54	-95.26	-68.72	-13	-55.72
3	195.87	22.11	-95.26	-73.15	-13	-60.15
4	252.13	24.39	-95.26	-70.87	-13	-57.87
5	288.02	32.22	-95.26	-63.04	-13	-50.04
6	431.58	29.11	-95.26	-66.15	-13	-53.15

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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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1712.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3425	43.26	-95.26	-52.00	-13	-39.00
2	5137.5	39.78	-95.26	-55.48	-13	-42.48
3	6850	41.12	-95.26	-54.14	-13	-41.14
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3425	35.74	-95.26	-59.52	-13	-46.52
2	5137.5	39.41	-95.26	-55.85	-13	-42.85
3	6850	42.02	-95.26	-53.24	-13	-40.24

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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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1732.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3465	44.69	-95.26	-50.57	-13	-37.57
2	5197.5	41.12	-95.26	-54.14	-13	-41.14
3	6930	42.49	-95.26	-52.77	-13	-39.77
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3465	37.02	-95.26	-58.24	-13	-45.24
2	5197.5	40.45	-95.26	-54.81	-13	-41.81
3	6930	42.88	-95.26	-52.38	-13	-39.38

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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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1752.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3505	41.62	-95.26	-53.64	-13	-40.64
2	5257.5	38.64	-95.26	-56.62	-13	-43.62
3	7010	40.05	-95.26	-55.21	-13	-42.21
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3505	34.09	-95.26	-61.17	-13	-48.17
2	5257.5	38.43	-95.26	-56.83	-13	-43.83
3	7010	41.18	-95.26	-54.08	-13	-41.08

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

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Below 1GHz
Frequency (MHz)	1732.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	28.46	-95.26	-66.80	-13	-53.80
2	177.44	25.65	-95.26	-69.61	-13	-56.61
3	194.9	32.61	-95.26	-62.65	-13	-49.65
4	250.19	26.67	-95.26	-68.59	-13	-55.59
5	288.02	33.31	-95.26	-61.95	-13	-48.95
6	431.58	27.54	-95.26	-67.72	-13	-54.72
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	107.6	30.97	-95.26	-64.29	-13	-51.29
2	159.98	25	-95.26	-70.26	-13	-57.26
3	252.13	24.92	-95.26	-70.34	-13	-57.34
4	288.02	31.42	-95.26	-63.84	-13	-50.84
5	312.27	26.28	-95.26	-68.98	-13	-55.98
6	431.58	29.46	-95.26	-65.80	-13	-52.80

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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Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1720		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3440	38.07	-95.26	-57.19	-13	-44.19
2	5160	38.76	-95.26	-56.50	-13	-43.50
3	6880	40.02	-95.26	-55.24	-13	-42.24
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3440	36.43	-95.26	-58.83	-13	-45.83
2	5160	39.54	-95.26	-55.72	-13	-42.72
3	6880	40.52	-95.26	-54.74	-13	-41.74

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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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1732.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3465	39.02	-95.26	-56.24	-13	-43.24
2	5197.5	40.64	-95.26	-54.62	-13	-41.62
3	6930	41.98	-95.26	-53.28	-13	-40.28
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3465	36.97	-95.26	-58.29	-13	-45.29
2	5197.5	40.68	-95.26	-54.58	-13	-41.58
3	6930	42.3	-95.26	-52.96	-13	-39.96

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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EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	36.28	-95.26	-58.98	-13	-45.98
2	5235	36.87	-95.26	-58.39	-13	-45.39
3	6980	39.04	-95.26	-56.22	-13	-43.22
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	35.72	-95.26	-59.54	-13	-46.54
2	5235	38.35	-95.26	-56.91	-13	-43.91
3	6980	38.75	-95.26	-56.51	-13	-43.51

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	20MHz / 1RB	Frequency Range	Below 1GHz
Frequency (MHz)	1732.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	28.52	-95.26	-66.74	-13	-53.74
2	159.98	24.64	-95.26	-70.62	-13	-57.62
3	194.9	30.76	-95.26	-64.50	-13	-51.50
4	250.19	26.01	-95.26	-69.25	-13	-56.25
5	288.02	32.99	-95.26	-62.27	-13	-49.27
6	431.58	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	30.82	-95.26	-64.44	-13	-51.44
2	121.18	26.44	-95.26	-68.82	-13	-55.82
3	159.98	24.94	-95.26	-70.32	-13	-57.32
4	243.4	25.15	-95.26	-70.11	-13	-57.11
5	288.02	31.84	-95.26	-63.42	-13	-50.42
6	431.58	29.49	-95.26	-65.77	-13	-52.77

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	20MHz / FRB	Frequency Range	Above 1 GHz
Frequency (MHz)	1720		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3440	36.35	-95.26	-58.91	-13	-45.91
2	5160	36.82	-95.26	-58.44	-13	-45.44
3	6880	38.92	-95.26	-56.34	-13	-43.34
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3440	35.91	-95.26	-59.35	-13	-46.35
2	5160	38.79	-95.26	-56.47	-13	-43.47
3	6880	39.59	-95.26	-55.67	-13	-42.67

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	20MHz / FRB	Frequency Range	Above 1 GHz
Frequency (MHz)	1732.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3465	38.15	-95.26	-57.11	-13	-44.11
2	5197.5	39.86	-95.26	-55.40	-13	-42.40
3	6930	40.62	-95.26	-54.64	-13	-41.64
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3465	35.94	-95.26	-59.32	-13	-46.32
2	5197.5	38.79	-95.26	-56.47	-13	-43.47
3	6930	41.28	-95.26	-53.98	-13	-40.98

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	20MHz / FRB	Frequency Range	Above 1 GHz
Frequency (MHz)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	34.63	-95.26	-60.63	-13	-47.63
2	5235	35.08	-95.26	-60.18	-13	-47.18
3	6980	37.43	-95.26	-57.83	-13	-44.83
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	34.66	-95.26	-60.60	-13	-47.60
2	5235	37	-95.26	-58.26	-13	-45.26
3	6980	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	20MHz / FRB	Frequency Range	Below 1GHz
Frequency (MHz)	1732.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.13	27.54	-95.26	-67.72	-13	-54.72
2	157.98	22.83	-95.26	-72.43	-13	-59.43
3	194.11	29.53	-95.26	-65.73	-13	-52.73
4	249.62	24.26	-95.26	-71.00	-13	-58.00
5	286.5	31.52	-95.26	-63.74	-13	-50.74
6	430.83	25.75	-95.26	-69.51	-13	-56.51
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.81	29.03	-95.26	-66.23	-13	-53.23
2	119.38	24.9	-95.26	-70.36	-13	-57.36
3	158.5	23.89	-95.26	-71.37	-13	-58.37
4	242.85	24.28	-95.26	-70.98	-13	-57.98
5	286.74	29.99	-95.26	-65.27	-13	-52.27
6	429.63	28.55	-95.26	-66.71	-13	-53.71

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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LTE Band 12

- 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)	699.7		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1399.4	48.76	-95.26	-46.50	-13	-33.50
2	2099.1	50.07	-95.26	-45.19	-13	-32.19
3	2798.8	36.04	-95.26	-59.22	-13	-46.22
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1399.4	46.34	-95.26	-48.92	-13	-35.92
2	2099.1	40.23	-95.26	-55.03	-13	-42.03
3	2798.8	33.46	-95.26	-61.80	-13	-48.80

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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Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
 Telephone :+886-2-7737-3000
 Facsimile (FAX) :+886-3-583-7948



EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	707.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1415	49.74	-95.26	-45.52	-13	-32.52
2	2122.5	50.74	-95.26	-44.52	-13	-31.52
3	2830	37.1	-95.26	-58.16	-13	-45.16
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1415	48.07	-95.26	-47.19	-13	-34.19
2	2122.5	41.47	-95.26	-53.79	-13	-40.79
3	2830	35.22	-95.26	-60.04	-13	-47.04

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)	715.3		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1430.6	47.5	-95.26	-47.76	-13	-34.76
2	2145.9	49.27	-95.26	-45.99	-13	-32.99
3	2861.2	34.79	-95.26	-60.47	-13	-47.47
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1430.6	44.75	-95.26	-50.51	-13	-37.51
2	2145.9	38.3	-95.26	-56.96	-13	-43.96
3	2861.2	32.04	-95.26	-63.22	-13	-50.22

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)	707.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	28.75	-95.26	-66.51	-13	-53.51
2	180.35	26.67	-95.26	-68.59	-13	-55.59
3	194.9	31.79	-95.26	-63.47	-13	-50.47
4	251.16	27.08	-95.26	-68.18	-13	-55.18
5	288.02	33.36	-95.26	-61.90	-13	-48.90
6	431.58	26.49	-95.26	-68.77	-13	-55.77
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	31.19	-95.26	-64.07	-13	-51.07
2	121.18	26.82	-95.26	-68.44	-13	-55.44
3	159.98	25.59	-95.26	-69.67	-13	-56.67
4	251.16	24.33	-95.26	-70.93	-13	-57.93
5	288.02	31.43	-95.26	-63.83	-13	-50.83
6	431.58	29.88	-95.26	-65.38	-13	-52.38

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

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0916 / 6.0



EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	701.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1403	50.22	-95.26	-45.04	-13	-32.04
2	2104.5	48.68	-95.26	-46.58	-13	-33.58
3	2806	35.44	-95.26	-59.82	-13	-46.82
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1403	50.36	-95.26	-44.90	-13	-31.90
2	2104.5	45.71	-95.26	-49.55	-13	-36.55
3	2806	34.52	-95.26	-60.74	-13	-47.74

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)	707.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1415	51.99	-95.26	-43.27	-13	-30.27
2	2122.5	49.43	-95.26	-45.83	-13	-32.83
3	2830	36.51	-95.26	-58.75	-13	-45.75
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1415	51.74	-95.26	-43.52	-13	-30.52
2	2122.5	46.31	-95.26	-48.95	-13	-35.95
3	2830	35.61	-95.26	-59.65	-13	-46.65

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)	713.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1427	48.44	-95.26	-46.82	-13	-33.82
2	2140.5	47.18	-95.26	-48.08	-13	-35.08
3	2854	34.27	-95.26	-60.99	-13	-47.99
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1427	48.76	-95.26	-46.50	-13	-33.50
2	2140.5	44.49	-95.26	-50.77	-13	-37.77
3	2854	33.73	-95.26	-61.53	-13	-48.53

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)	707.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	29.35	-95.26	-65.91	-13	-52.91
2	180.35	26.13	-95.26	-69.13	-13	-56.13
3	195.87	31.79	-95.26	-63.47	-13	-50.47
4	244.37	26.78	-95.26	-68.48	-13	-55.48
5	288.02	33.22	-95.26	-62.04	-13	-49.04
6	431.58	26.31	-95.26	-68.95	-13	-55.95
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	107.6	31.6	-95.26	-63.66	-13	-50.66
2	120.21	26.27	-95.26	-68.99	-13	-55.99
3	159.98	24.58	-95.26	-70.68	-13	-57.68
4	243.4	24.12	-95.26	-71.14	-13	-58.14
5	288.02	31.79	-95.26	-63.47	-13	-50.47
6	431.58	29.29	-95.26	-65.97	-13	-52.97

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)	704		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1408	55.93	-95.26	-39.33	-13	-26.33
2	2112	48.69	-95.26	-46.57	-13	-33.57
3	2816	34.57	-95.26	-60.69	-13	-47.69
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1408	48.63	-95.26	-46.63	-13	-33.63
2	2112	44.66	-95.26	-50.60	-13	-37.60
3	2816	35.22	-95.26	-60.04	-13	-47.04

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)	707.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1415	57.36	-95.26	-37.90	-13	-24.90
2	2122.5	50.23	-95.26	-45.03	-13	-32.03
3	2830	36.39	-95.26	-58.87	-13	-45.87
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1415	50.52	-95.26	-44.74	-13	-31.74
2	2122.5	45.47	-95.26	-49.79	-13	-36.79
3	2830	36.45	-95.26	-58.81	-13	-45.81

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)	711		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1422	55.28	-95.26	-39.98	-13	-26.98
2	2133	47.09	-95.26	-48.17	-13	-35.17
3	2844	33.94	-95.26	-61.32	-13	-48.32
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1422	47.31	-95.26	-47.95	-13	-34.95
2	2133	43.6	-95.26	-51.66	-13	-38.66
3	2844	33.84	-95.26	-61.42	-13	-48.42

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)	707.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	29.06	-95.26	-66.20	-13	-53.20
2	181.32	26.85	-95.26	-68.41	-13	-55.41
3	194.9	29.98	-95.26	-65.28	-13	-52.28
4	239.52	27.17	-95.26	-68.09	-13	-55.09
5	288.02	32.57	-95.26	-62.69	-13	-49.69
6	431.58	26.67	-95.26	-68.59	-13	-55.59
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	107.6	31.62	-95.26	-63.64	-13	-50.64
2	121.18	26.43	-95.26	-68.83	-13	-55.83
3	159.98	24.53	-95.26	-70.73	-13	-57.73
4	252.13	26.11	-95.26	-69.15	-13	-56.15
5	288.02	32.2	-95.26	-63.06	-13	-50.06
6	431.58	28.49	-95.26	-66.77	-13	-53.77

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)	704		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1408	54.91	-95.26	-40.35	-13	-27.35
2	2112	47.12	-95.26	-48.14	-13	-35.14
3	2816	32.99	-95.26	-62.27	-13	-49.27
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1408	46.82	-95.26	-48.44	-13	-35.44
2	2112	43.86	-95.26	-51.40	-13	-38.40
3	2816	34.08	-95.26	-61.18	-13	-48.18

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)	707.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1415	55.41	-95.26	-39.85	-13	-26.85
2	2122.5	49.33	-95.26	-45.93	-13	-32.93
3	2830	35.73	-95.26	-59.53	-13	-46.53
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1415	49.15	-95.26	-46.11	-13	-33.11
2	2122.5	44.41	-95.26	-50.85	-13	-37.85
3	2830	34.95	-95.26	-60.31	-13	-47.31

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)	711		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1422	53.97	-95.26	-41.29	-13	-28.29
2	2133	45.69	-95.26	-49.57	-13	-36.57
3	2844	33.01	-95.26	-62.25	-13	-49.25
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1422	45.33	-95.26	-49.93	-13	-36.93
2	2133	42.49	-95.26	-52.77	-13	-39.77
3	2844	32.7	-95.26	-62.56	-13	-49.56

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	10MHz / FRB	Frequency Range	Below 1GHz
Frequency (MHz)	707.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.13	28.53	-95.26	-66.73	-13	-53.73
2	179.49	26.15	-95.26	-69.11	-13	-56.11
3	194.12	28.78	-95.26	-66.48	-13	-53.48
4	238.39	26.04	-95.26	-69.22	-13	-56.22
5	287.03	30.81	-95.26	-64.45	-13	-51.45
6	430.93	25.43	-95.26	-69.83	-13	-56.83
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.13	30.31	-95.26	-64.95	-13	-51.95
2	119.76	25.7	-95.26	-69.56	-13	-56.56
3	158.44	23.87	-95.26	-71.39	-13	-58.39
4	250.59	24.49	-95.26	-70.77	-13	-57.77
5	286.65	30.44	-95.26	-64.82	-13	-51.82
6	430.82	26.97	-95.26	-68.29	-13	-55.29

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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LTE Band 13

- 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	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	779.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1559	52.7	-95.26	-42.56	-40	-2.56
2	2338.5	47.76	-95.26	-47.50	-13	-34.50
3	3118	44.37	-95.26	-50.89	-13	-37.89
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1559	51.91	-95.26	-43.35	-40	-3.35
2	2338.5	49.21	-95.26	-46.05	-13	-33.05
3	3118	45.15	-95.26	-50.11	-13	-37.11

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

Underwriters Laboratories Taiwan Co., Ltd.

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Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-3-583-7948



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FCC ID : 2APLE18300418

EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	782		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1564	54.59	-95.26	-40.67	-40	-0.67
2	2346	48.4	-95.26	-46.86	-13	-33.86
3	3128	45.67	-95.26	-49.59	-13	-36.59
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1564	53.15	-95.26	-42.11	-40	-2.11
2	2346	50.85	-95.26	-44.41	-13	-31.41
3	3128	46.5	-95.26	-48.76	-13	-35.76

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

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0916 / 6.0



EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	784.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1569	51.77	-95.26	-43.49	-40	-3.49
2	2353.5	46.77	-95.26	-48.49	-13	-35.49
3	3138	43.2	-95.26	-52.06	-13	-39.06
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1569	50.38	-95.26	-44.88	-40	-4.88
2	2353.5	48.71	-95.26	-46.55	-13	-33.55
3	3138	43.64	-95.26	-51.62	-13	-38.62

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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Facsimile (FAX) :+886-3-583-7948

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	5MHz / 1RB	Frequency Range	Below 1GHz
Frequency (MHz)	782		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	28.77	-95.26	-66.49	-13	-53.49
2	178.41	26.07	-95.26	-69.19	-13	-56.19
3	195.87	31.78	-95.26	-63.48	-13	-50.48
4	239.52	27.4	-95.26	-67.86	-13	-54.86
5	288.02	33.88	-95.26	-61.38	-13	-48.38
6	335.55	24.96	-95.26	-70.30	-13	-57.30
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	31.16	-95.26	-64.10	-13	-51.10
2	121.18	25.83	-95.26	-69.43	-13	-56.43
3	159.98	25.21	-95.26	-70.05	-13	-57.05
4	252.13	24.67	-95.26	-70.59	-13	-57.59
5	288.02	31.48	-95.26	-63.78	-13	-50.78
6	431.58	29.25	-95.26	-66.01	-13	-53.01

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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Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	10MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	782		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1564	54.41	-95.26	-40.85	-40	-0.85
2	2346	53.59	-95.26	-41.67	-13	-28.67
3	3128	43.68	-95.26	-51.58	-13	-38.58
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1564	52.99	-95.26	-42.27	-40	-2.27
2	2346	50.53	-95.26	-44.73	-13	-31.73
3	3128	46.61	-95.26	-48.65	-13	-35.65

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)	782		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	28.82	-95.26	-66.44	-13	-53.44
2	159.98	24.85	-95.26	-70.41	-13	-57.41
3	195.87	31.72	-95.26	-63.54	-13	-50.54
4	244.37	26.77	-95.26	-68.49	-13	-55.49
5	288.02	32.97	-95.26	-62.29	-13	-49.29
6	359.8	25.29	-95.26	-69.97	-13	-56.97
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	31.33	-95.26	-63.93	-13	-50.93
2	159.98	25.12	-95.26	-70.14	-13	-57.14
3	199.75	21.82	-95.26	-73.44	-13	-60.44
4	251.16	24.82	-95.26	-70.44	-13	-57.44
5	288.02	32.6	-95.26	-62.66	-13	-49.66
6	431.58	29.42	-95.26	-65.84	-13	-52.84

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)	782		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1564	53.7	-95.26	-41.56	-40	-1.56
2	2346	52.47	-95.26	-42.79	-13	-29.79
3	3128	43.17	-95.26	-52.09	-13	-39.09
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1564	51.09	-95.26	-44.17	-40	-4.17
2	2346	49.42	-95.26	-45.84	-13	-32.84
3	3128	45.89	-95.26	-49.37	-13	-36.37

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)	782		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.1	28.11	-95.26	-67.15	-13	-54.15
2	158.93	23.53	-95.26	-71.73	-13	-58.73
3	194.72	30.51	-95.26	-64.75	-13	-51.75
4	243.2	25.91	-95.26	-69.35	-13	-56.35
5	286.99	31.4	-95.26	-63.86	-13	-50.86
6	359.27	23.51	-95.26	-71.75	-13	-58.75
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	105.25	29.71	-95.26	-65.55	-13	-52.55
2	158.55	23.56	-95.26	-71.70	-13	-58.70
3	198.96	20.71	-95.26	-74.55	-13	-61.55
4	250.14	24.21	-95.26	-71.05	-13	-58.05
5	286.08	30.65	-95.26	-64.61	-13	-51.61
6	430.28	28.43	-95.26	-66.83	-13	-53.83

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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LTE Band 66

- 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)	1710.7		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3421.4	34.87	-95.26	-60.39	-13	-47.39
2	5132.1	37.86	-95.26	-57.40	-13	-44.40
3	6842.8	42.93	-95.26	-52.33	-13	-39.33
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3421.4	35.8	-95.26	-59.46	-13	-46.46
2	5132.1	38.75	-95.26	-56.51	-13	-43.51
3	6842.8	42.92	-95.26	-52.34	-13	-39.34

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

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Telephone :+886-2-7737-3000
Facsimile (FAX) :+886-3-583-7948



EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	36.64	-95.26	-58.62	-13	-45.62
2	5235	39.76	-95.26	-55.50	-13	-42.50
3	6980	43.58	-95.26	-51.68	-13	-38.68
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	36.85	-95.26	-58.41	-13	-45.41
2	5235	40.37	-95.26	-54.89	-13	-41.89
3	6980	44.3	-95.26	-50.96	-13	-37.96

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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EUT Test Condition		Measurement Detail	
Channel Bandwidth	1.4MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1779.3		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3558.6	33.43	-95.26	-61.83	-13	-48.83
2	5337.9	36.26	-95.26	-59.00	-13	-46.00
3	7117.2	41.5	-95.26	-53.76	-13	-40.76
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3558.6	34.93	-95.26	-60.33	-13	-47.33
2	5337.9	37.91	-95.26	-57.35	-13	-44.35
3	7117.2	41.47	-95.26	-53.79	-13	-40.79

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)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	28.41	-95.26	-66.85	-13	-53.85
2	180.35	26.4	-95.26	-68.86	-13	-55.86
3	194.9	31.49	-95.26	-63.77	-13	-50.77
4	251.16	26.98	-95.26	-68.28	-13	-55.28
5	288.02	32.85	-95.26	-62.41	-13	-49.41
6	491.72	28.97	-95.26	-66.29	-13	-53.29
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	31.03	-95.26	-64.23	-13	-51.23
2	121.18	26.51	-95.26	-68.75	-13	-55.75
3	159.98	24.42	-95.26	-70.84	-13	-57.84
4	239.52	24.61	-95.26	-70.65	-13	-57.65
5	288.02	31.67	-95.26	-63.59	-13	-50.59
6	431.58	29.96	-95.26	-65.30	-13	-52.30

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)	1712.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3425	38.59	-95.26	-56.67	-13	-43.67
2	5137.5	39.45	-95.26	-55.81	-13	-42.81
3	6850	41.71	-95.26	-53.55	-13	-40.55
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3425	36.55	-95.26	-58.71	-13	-45.71
2	5137.5	38.62	-95.26	-56.64	-13	-43.64
3	6850	41.2	-95.26	-54.06	-13	-41.06

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)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	40.16	-95.26	-55.10	-13	-42.10
2	5235	40.33	-95.26	-54.93	-13	-41.93
3	6980	43.02	-95.26	-52.24	-13	-39.24
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	37.86	-95.26	-57.40	-13	-44.40
2	5235	40.43	-95.26	-54.83	-13	-41.83
3	6980	42.43	-95.26	-52.83	-13	-39.83

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	5MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1777.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3555	36.72	-95.26	-58.54	-13	-45.54
2	5332.5	38.7	-95.26	-56.56	-13	-43.56
3	7110	40.52	-95.26	-54.74	-13	-41.74
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3555	35.02	-95.26	-60.24	-13	-47.24
2	5332.5	36.78	-95.26	-58.48	-13	-45.48
3	7110	40.66	-95.26	-54.60	-13	-41.60

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)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	28.5	-95.26	-66.76	-13	-53.76
2	180.35	27.62	-95.26	-67.64	-13	-54.64
3	195.87	31.33	-95.26	-63.93	-13	-50.93
4	244.37	26.53	-95.26	-68.73	-13	-55.73
5	288.02	33.56	-95.26	-61.70	-13	-48.70
6	431.58	26.55	-95.26	-68.71	-13	-55.71
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	31.33	-95.26	-63.93	-13	-50.93
2	159.98	25.45	-95.26	-69.81	-13	-56.81
3	214.3	21.52	-95.26	-73.74	-13	-60.74
4	250.19	24.48	-95.26	-70.78	-13	-57.78
5	288.02	30.82	-95.26	-64.44	-13	-51.44
6	431.58	29.77	-95.26	-65.49	-13	-52.49

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

Underwriters Laboratories Taiwan Co., Ltd.

Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan

Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0916 / 6.0



EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1720		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3440	35.64	-95.26	-59.62	-13	-46.62
2	5160	38.71	-95.26	-56.55	-13	-43.55
3	6880	41.88	-95.26	-53.38	-13	-40.38
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3440	39.3	-95.26	-55.96	-13	-42.96
2	5160	38.9	-95.26	-56.36	-13	-43.36
3	6880	42.81	-95.26	-52.45	-13	-39.45

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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Facsimile (FAX) :+886-3-583-7948

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EUT Test Condition		Measurement Detail	
Channel Bandwidth	20MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	37.45	-95.26	-57.81	-13	-44.81
2	5235	39.78	-95.26	-55.48	-13	-42.48
3	6980	42.94	-95.26	-52.32	-13	-39.32
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	40.18	-95.26	-55.08	-13	-42.08
2	5235	40.35	-95.26	-54.91	-13	-41.91
3	6980	44.53	-95.26	-50.73	-13	-37.73

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	20MHz / 1RB	Frequency Range	Above 1 GHz
Frequency (MHz)	177		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3540	34.38	-95.26	-60.88	-13	-47.88
2	5310	37.07	-95.26	-58.19	-13	-45.19
3	7080	41.27	-95.26	-53.99	-13	-40.99
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3540	38.37	-95.26	-56.89	-13	-43.89
2	5310	37.86	-95.26	-57.40	-13	-44.40
3	7080	41.68	-95.26	-53.58	-13	-40.58

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	20MHz / 1RB	Frequency Range	Below 1GHz
Frequency (MHz)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	28.09	-95.26	-67.17	-13	-54.17
2	180.35	26.75	-95.26	-68.51	-13	-55.51
3	195.87	31.92	-95.26	-63.34	-13	-50.34
4	250.19	26.9	-95.26	-68.36	-13	-55.36
5	288.02	32.99	-95.26	-62.27	-13	-49.27
6	431.58	27.02	-95.26	-68.24	-13	-55.24
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	106.63	31.59	-95.26	-63.67	-13	-50.67
2	159.98	25.53	-95.26	-69.73	-13	-56.73
3	251.16	25.22	-95.26	-70.04	-13	-57.04
4	288.02	30.55	-95.26	-64.71	-13	-51.71
5	431.58	29.16	-95.26	-66.10	-13	-53.10
6	629.46	30.43	-95.26	-64.83	-13	-51.83

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	20MHz / FRB	Frequency Range	Above 1 GHz
Frequency (MHz)	1720		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3440	34.17	-95.26	-61.09	-13	-48.09
2	5160	37.88	-95.26	-57.38	-13	-44.38
3	6880	40.61	-95.26	-54.65	-13	-41.65
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3440	37.59	-95.26	-57.67	-13	-44.67
2	5160	38.06	-95.26	-57.20	-13	-44.20
3	6880	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	20MHz / FRB	Frequency Range	Above 1 GHz
Frequency (MHz)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	36.16	-95.26	-59.10	-13	-46.10
2	5235	38.66	-95.26	-56.60	-13	-43.60
3	6980	41.61	-95.26	-53.65	-13	-40.65
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3490	38.83	-95.26	-56.43	-13	-43.43
2	5235	38.37	-95.26	-56.89	-13	-43.89
3	6980	42.84	-95.26	-52.42	-13	-39.42

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	20MHz / FRB	Frequency Range	Above 1 GHz
Frequency (MHz)	1777.5		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3540	32.45	-95.26	-62.81	-13	-49.81
2	5310	35.75	-95.26	-59.51	-13	-46.51
3	7080	40.71	-95.26	-54.55	-13	-41.55
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	3540	37.08	-95.26	-58.18	-13	-45.18
2	5310	37.02	-95.26	-58.24	-13	-45.24
3	7080	40.05	-95.26	-55.21	-13	-42.21

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	20MHz / FRB	Frequency Range	Below 1GHz
Frequency (MHz)	1745		

Horizontal						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	105.46	27.29	-95.26	-67.97	-13	-54.97
2	178.98	25.94	-95.26	-69.32	-13	-56.32
3	194.43	30.13	-95.26	-65.13	-13	-52.13
4	249.44	25.17	-95.26	-70.09	-13	-57.09
5	287.28	31.76	-95.26	-63.50	-13	-50.50
6	430.56	26.03	-95.26	-69.23	-13	-56.23
Vertical						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	105.41	30.19	-95.26	-65.07	-13	-52.07
2	159.41	25.02	-95.26	-70.24	-13	-57.24
3	249.76	23.94	-95.26	-71.32	-13	-58.32
4	287.22	29.82	-95.26	-65.44	-13	-52.44
5	430.14	27.18	-95.26	-68.08	-13	-55.08
6	628.71	28.75	-95.26	-66.51	-13	-53.51

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

Underwriters Laboratories Taiwan Co., Ltd.

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