

FCC Co-Location Test Report

FCC ID : SQG-PINNACLE1
Equipment : LTE Modem
Model No. : Pinnacle 100
Brand Name : Laird Connectivity
Applicant : Laird Connectivity, Inc.
Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA
Standard : 47 CFR FCC Part 15.247
47 CFR FCC Part 15.407
47 CFR FCC Part 22 Subpart H
47 CFR FCC Part 24 Subpart E
47 CFR FCC Part 27
Received Date : Jun. 24, 2020
Tested Date : Nov. 10 ~ Nov. 24, 2020

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR950303-02CO	Rev. 01	Initial issue	Dec. 11, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.247(d) 15.209 2.1053 22.917(a) 24.238(a) 27.53(g)	Radiated Emissions	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

This report is issued as a Class II Permissive Change. The modification is adding two antennas and by software setting to enable LTE NB-IOT function.

1.1.1 Specification of the Equipment under Test (EUT)

BT	
Operating Frequency	2402 MHz ~ 2480 MHz
Modulation Type	Bluetooth 5.0 LE: GFSK

LTE NB-IoT	
Operating Frequency	Band 2: 1850 MHz ~ 1910 MHz Band 4: 1710 MHz ~ 1755 MHz Band 5: 824 MHz ~ 849 MHz Band 12: 699 MHz ~ 716 MHz Band 13: 777 MHz ~ 787 MHz
Modulation Type	QPSK, BPSK
LTE Cat-M1	
Operating Frequency	Band 2: 1850 MHz ~ 1910 MHz Band 4: 1710 MHz ~ 1755 MHz Band 5: 824 MHz ~ 849 MHz Band 12: 699 MHz ~ 716 MHz Band 13: 777 MHz ~ 787 MHz
Modulation Type	QPSK, 16QAM

1.1.2 Antenna Details of Specific platform (New addition is marked in boldface.)

BT

Ant. No.	Brand	Model	Type	Gain (dBi)	Connector
1	LSR	001-0001	2.4GHz Dipole	2	RP-SMA Female with IPEX U.FL antenna cable
2	Laird	NanoBlue-IP04 (MAF94045)	PCB Dipole	2	IPEX U.FL
3	LSR	001-0014	2.4GHz Flex PIFA	2	IPEX U.FL
4	Laird	110-00665	Trace Monopole	2.6	NA

LTE

Ant. No.	Brand / Model	Type	Connector	Gain (dBi)	Operating Band
External					
1	Laird / DBA6927C1	Dipole	U.FL	2.2	LTE Band 2
				2.2	LTE Band 4
				0.5	LTE Band 5
				0.5	LTE Band 12
				0.5	LTE Band 13
2	Laird / EFF6925A3S	Flex	U.FL	3.7	LTE Band 2
				3.7	LTE Band 4
				1.9	LTE Band 5
				1.9	LTE Band 12
				1.9	LTE Band 13
3	ASC / RFDPA131000SMTB803	Dipole	U.FL	1.5	LTE Band 2
				3.04	LTE Band 4
				0.38	LTE Band 5
				-0.22	LTE Band 12
				1	LTE Band 13
4	Laird / EFF6989A3S-19MHF1	Flex	U.FL	3.7	LTE Band 2
				4.1	LTE Band 4
				1.4	LTE Band 5
				0.9	LTE Band 12
				0.9	LTE Band 13
5	Laird / EFF6060A3S-10MHF	Flex	U.FL	2.8	LTE Band 2
				3.7	LTE Band 4
				2.7	LTE Band 5
				2.5	LTE Band 12
				2.5	LTE Band 13
Integrated					
6	Laird/110-00665	Stamped Metal	N/A	2.6	LTE Band 2
				2.6	LTE Band 4
				1.3	LTE Band 5
				1.3	LTE Band 12
				1.3	LTE Band 13

1.1.3 Accessories

N/A

1.2 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber 1 / (03CH01-WS)				
Tested Data	Nov. 10 ~ Nov. 24, 2020				
Instrument	Brand	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 10, 2020	Jul. 09, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 06, 2020	Nov. 05, 2021
Loop Antenna	TESEQ	HLA 6120	31244	Mar. 16, 2020	Mar. 15, 2021
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Preamplifier	Agilent	83017A	MY39501308	Sep. 26, 2020	Sep. 25, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF Cable	EMC	EMC104-SM-SM-80 00	181106	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 06, 2020	Oct. 05, 2021
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 06, 2020	Oct. 05, 2021
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 06, 2020	Oct. 05, 2021
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 06, 2020	Oct. 05, 2021
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 06, 2020	Oct. 05, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

1.3 Test Standards

47 CFR FCC Part 15.247
 47 CFR FCC Part 15.407
 47 CFR FCC Part 22 Subpart H
 47 CFR FCC Part 24 Subpart E
 47 CFR FCC Part 27
 ANSI C63.10-2013
 ANSI C63.26-2015
 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
 FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
 FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

1.4 Reference Guidance

ANSI C63.4-2014
 FCC KDB 558074 D01 15.247 Meas Guidance v05r02
 FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
 FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01
 FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.5 Deviation from Test Standard and Measurement Procedure

None

1.6 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty	
Parameters	Uncertainty
Radiated emission \leq 1GHz	± 3.41 dB
Radiated emission $>$ 1GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	03CH01-WS
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

NB-IoT External Antenna		
Test item	Mode	Test mode
Radiated Emissions	1	LTE Antenna: DBA6927C1, Band 2 CH18602 + BLE Antenna: 001-0001 CH39
	2	LTE Antenna: DBA6927C1, Band 2 CH 18602 + BLE Antenna: 001-0014 CH39
	3	LTE Antenna: DBA6927C1, Band 2 CH1860 + BLE Antenna: NanoBlue-IP04 CH39
	4	LTE Antenna: EFF6925A3S, Band 2 CH 18602 + BLE Antenna: 001-0001 CH39
	5	LTE Antenna: EFF6925A3S, Band 2 CH 18602 + BLE Antenna: 001-0014 CH39
	6	LTE Antenna: EFF6925A3S, Band 2 CH18602 + BLE Antenna: NanoBlue-IP04 CH39
	7	LTE Antenna: RFDPA131000SMTB803, Band 4 CH19952 + BLE Antenna: 001-0001 CH39
	8	LTE Antenna: RFDPA131000SMTB803, Band 4 CH19952 + BLE Antenna: 001-0014 CH39
	9	LTE Antenna: RFDPA131000SMTB803, Band 4 CH19952 + BLE Antenna: NanoBlue-IP04 CH39
	10	LTE Antenna: EFF6989A3S-19MHF1, Band 4 CH19952 + BLE Antenna: 001-0001 CH39
	11	LTE Antenna: EFF6989A3S-19MHF1, Band 4 CH19952+ BLE Antenna: 001-0014 CH39
	12	LTE Antenna: EFF6989A3S-19MHF1, Band 4 CH19952 + BLE Antenna: NanoBlue-IP04 CH39
	13	LTE Antenna: DBA6927C1, Band 5 CH20525 + BLE Antenna: 001-0001 CH39
	14	LTE Antenna: DBA6927C1, Band 5 CH 20525 + BLE Antenna: 001-0014 CH39
	15	LTE Antenna: DBA6927C1, Band 5 CH20525 + BLE Antenna: NanoBlue-IP04 CH39
	16	LTE Antenna: EFF6060A3S-10MHF, Band 5 CH20525 + BLE Antenna: 001-0001 CH39
	17	LTE Antenna: EFF6060A3S-10MHF, Band 5 CH20525 + BLE Antenna: 001-0014 CH39
	18	LTE Antenna: EFF6060A3S-10MHF, Band 5 CH20525 + BLE Antenna: NanoBlue-IP04 CH39
	19	LTE Antenna: DBA6927C1, Band 12 CH23095 + BLE Antenna: 001-0001 CH39
	20	LTE Antenna: DBA6927C1, Band 12 CH: 23095 + BLE Antenna: 001-0014 CH39
	21	LTE Antenna: DBA6927C1, Band 12 CH 23095 + BLE Antenna: NanoBlue-IP04 CH39
	22	LTE Antenna: EFF6060A3S-10MHF, Band 12 CH 23095 + BLE Antenna: 001-0001 CH39
	23	LTE Antenna: EFF6060A3S-10MHF, Band 12 CH23095 + BLE Antenna: 001-0014 CH39
	24	LTE Antenna: EFF6060A3S-10MHF, Band 12 CH23095 + BLE Antenna: NanoBlue-IP04 CH39
	25	LTE Antenna: RFDPA131000SMTB803, Band 13 CH23278 + BLE Antenna: 001-0001 CH39
	26	LTE Antenna: RFDPA131000SMTB803, Band 13 CH 23278 + BLE Antenna: NanoBlue-IP04 CH39
	27	LTE Antenna: RFDPA131000SMTB803, Band 13, CH23278 + BLE Antenna: 001-0014 CH39
	28	LTE Antenna: EFF6060A3S-10MHF, Band 13 Channel : 23278 + BLE Antenna: 001-0001 CH39
	29	LTE Antenna: EFF6060A3S-10MHF, Band 13 Channel : 23278 + BLE Antenna: 001-0014 CH39
	30	LTE Antenna: EFF6060A3S-10MHF, Band 13 Channel : 23278 + BLE Antenna : NanoBlue-IP04 CH39

NOTE: The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** result was found as the worst case and was shown in this report.

NB-IoT Internal Antenna

Test item	Mode	Test mode
Radiated Emissions	31	LTE Antenna: 110-00665, Band 2 CH18602 + BLE Antenna: 10-00665 CH39
	32	LTE Antenna: 110-00665, Band 4 CH19952 + BLE Antenna: 110-00665 CH39
	33	LTE Antenna: 110-00665, Band 5 CH 20525 + BLE Antenna: 110-00665 CH39
	34	LTE Antenna: 110-00665, Band 12 CH23095 + BLE Antenna: 110-00665 CH39
	35	LTE Antenna: 110-00665, Band 13 CH 23278 + BLE Antenna: 110-00665 CH39

NOTE: The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** result was found as the worst case and was shown in this report.

Cat-M1 External Antenna

Test item	Mode	Test mode
Radiated Emissions	1	LTE Antenna: EFF6989A3S-19MHF1, Band 4 CH19957 + BLE Antenna: 001-0001 CH39
	2	LTE Antenna: EFF6989A3S-19MHF1, Band 4 CH19957 + BLE Antenna: 001-0014 CH39
	3	LTE Antenna: EFF6989A3S-19MHF1, Band 4 CH19957 + BLE Antenna: NanoBlue-IP04 CH39
	4	LTE Antenna: EFF6060A3S-10MHF, Band 5 CH 20407 + BLE Antenna: 001-0001 CH39
	5	LTE Antenna: EFF6060A3S-10MHF, Band 5 CH: 20407 + BLE Antenna: 001-0014 CH39
	6	LTE Antenna: EFF6060A3S-10MHF, Band 5 CH 20407 + BLE Antenna: NanoBlue-IP04 CH39
	7	LTE Antenna: EFF6060A3S-10MHF, Band 12 CH 23017 + BLE Antenna: 001-0001 CH39
	8	LTE Antenna: EFF6060A3S-10MHF, Band 12 CH23017+ BLE Antenna: 001-0014 CH39
	9	LTE Antenna: EFF6060A3S-10MHF, Band 12 CH23017 + BLE Antenna: NanoBlue-IP04 CH39
	10	LTE Antenna: EFF6060A3S-10MHF, Band 13 CH23230 + BLE Antenna: 001-0001 CH39
	11	LTE Antenna: EFF6060A3S-10MHF, Band 13 CH23230 + BLE Antenna: 001-0014 CH39
	12	LTE Antenna: EFF6060A3S-10MHF, Band 13,CH 23230 + BLE Antenna: NanoBlue-IP04 CH39

NOTE: The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** result was found as the worst case and was shown in this report.

3 Transmitter Test Results

3.1 Radiated Emissions

3.1.1 Limit

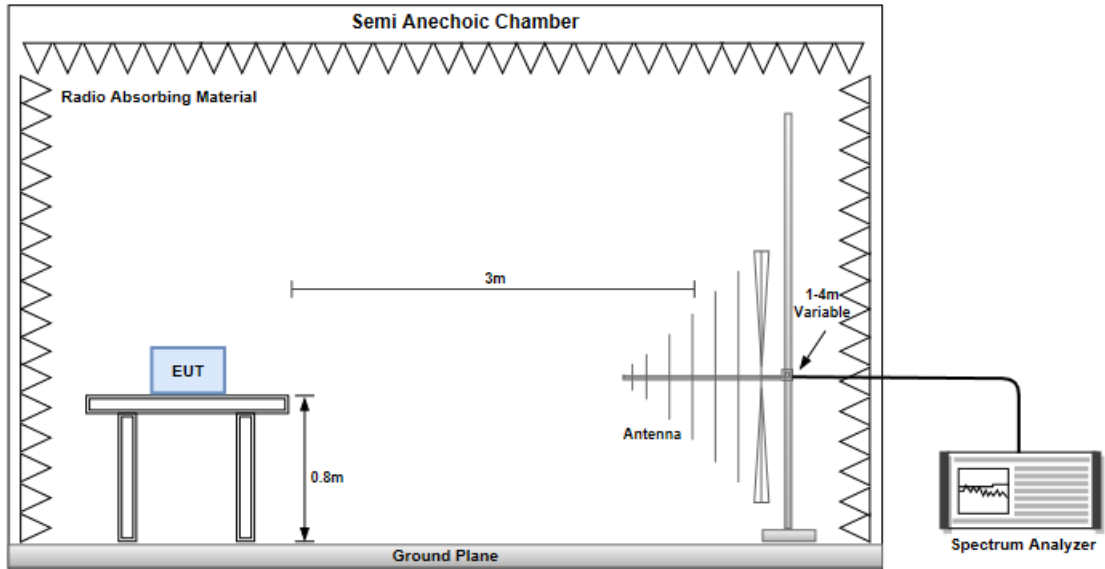
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13dBm.

3.1.2 Test Procedures

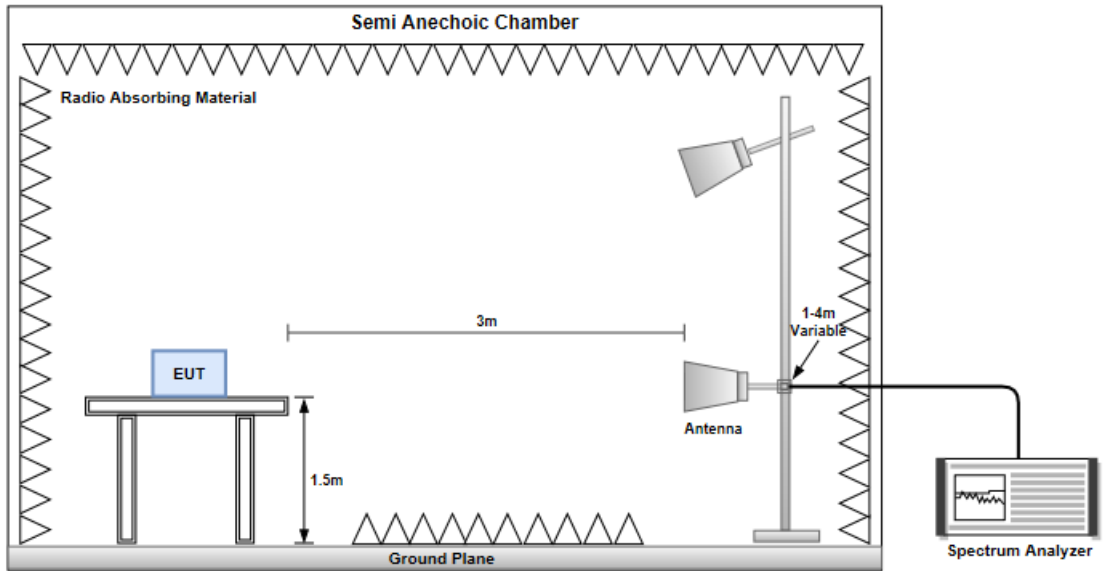
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable. ERP can be calculated by below formula:
 $E.R.P = E.I.R.P - 2.15dB.$

Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.1.3 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Ambient Condition	22~23°C / 63~69%	Tested By	Brad Wu, Akun Chung
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NB-IoT External Antenna

Test mode		Mode 1					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-67.44	-13	-54.44	-75.67	-47.99	-19.45
90.14	H	-70.25	-13	-57.25	-68.16	-65.34	-4.91
229.82	H	-69.56	-13	-56.56	-65.32	-67.63	-1.93
360.77	H	-69.74	-13	-56.74	-71.68	-68.62	-1.12
408.30	H	-70.31	-13	-57.31	-72.74	-69.07	-1.24
806.97	H	-65.97	-13	-52.97	-75.51	-64.07	-1.90
43.580	V	-63.29	-13	-50.29	-60.18	-46.18	-17.11
120.21	V	-70.18	-13	-57.18	-70.36	-64.11	-6.07
187.14	V	-71.5	-13	-58.5	-72.44	-67.39	-4.11
263.77	V	-71.22	-13	-58.22	-76.4	-69.96	-1.26
360.77	V	-69.16	-13	-56.16	-71.4	-68.04	-1.12
953.44	V	-62.8	-13	-49.8	-75.74	-60.13	-2.67

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 2					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-66.28	-13	-53.28	-74.51	-46.83	-19.45
90.14	H	-66.63	-13	-53.63	-64.54	-61.72	-4.91
156.1	H	-57.79	-13	-44.79	-57.01	-51.42	-6.37
239.52	H	-72.99	-13	-59.99	-69.29	-71.38	-1.61
311.3	H	-70.1	-13	-57.1	-69.47	-68.87	-1.23
408.3	H	-70.76	-13	-57.76	-73.19	-69.52	-1.24
43.58	V	-64.37	-13	-51.37	-61.26	-47.26	-17.11
90.14	V	-69.59	-13	-56.59	-67.25	-64.68	-4.91
120.21	V	-70.8	-13	-57.8	-70.98	-64.73	-6.07
311.3	V	-72.78	-13	-59.78	-74.52	-71.55	-1.23
360.77	V	-69.85	-13	-56.85	-72.09	-68.73	-1.12
408.3	V	-69.61	-13	-56.61	-72.42	-68.37	-1.24

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 3					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-65.28	-13	-52.28	-73.51	-45.83	-19.45
58.13	H	-68.69	-13	-55.69	-69.92	-54.4	-14.29
90.14	H	-71.65	-13	-58.65	-69.56	-66.74	-4.91
148.34	H	-71.96	-13	-58.96	-71.23	-65.4	-6.56
230.79	H	-70.65	-13	-57.65	-66.46	-68.75	-1.9
408.3	H	-70.28	-13	-57.28	-72.71	-69.04	-1.24
43.58	V	-64.65	-13	-51.65	-61.54	-47.54	-17.11
90.14	V	-68.94	-13	-55.94	-66.6	-64.03	-4.91
120.21	V	-71.1	-13	-58.1	-71.28	-65.03	-6.07
217.21	V	-71.54	-13	-58.54	-71.85	-69.19	-2.35
408.3	V	-70.27	-13	-57.27	-73.88	-69.03	-1.24
953.44	V	-62.17	-13	-49.17	-75.11	-59.5	-2.67

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 4					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-65.85	-13	-52.85	-74.08	-46.4	-19.45
90.14	H	-65.44	-13	-52.44	-63.35	-60.53	-4.91
159.01	H	-71.51	-13	-58.51	-70.71	-65.22	-6.29
273.47	H	-67.62	-13	-54.62	-65.34	-66.36	-1.26
360.77	H	-69.21	-13	-56.21	-71.15	-68.09	-1.12
408.3	H	-70.58	-13	-57.58	-73.01	-69.34	-1.24
43.58	V	-65.5	-13	-52.5	-62.39	-48.39	-17.11
90.14	V	-69.32	-13	-56.32	-66.98	-64.41	-4.91
120.21	V	-70.19	-13	-57.19	-70.37	-64.12	-6.07
245.34	V	-69.85	-13	-56.85	-71.59	-68.44	-1.41
283.17	V	-65.98	-13	-52.98	-67.73	-64.71	-1.27
326.82	V	-61.69	-13	-48.69	-63.58	-60.52	-1.17

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 5					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-66.51	-13	-53.51	-74.74	-47.06	-19.45
62.01	H	-66.93	-13	-53.93	-67.04	-53.72	-13.21
90.14	H	-66.82	-13	-53.82	-64.73	-61.91	-4.91
160.95	H	-70.92	-13	-57.92	-70.04	-64.72	-6.2
281.23	H	-68.2	-13	-55.2	-66.19	-66.93	-1.27
311.3	H	-68.32	-13	-55.32	-67.69	-67.09	-1.23
43.58	V	-67.81	-13	-54.81	-64.7	-50.7	-17.11
90.14	V	-70.16	-13	-57.16	-67.82	-65.25	-4.91
120.21	V	-70.82	-13	-57.82	-71	-64.75	-6.07
167.74	V	-71.89	-13	-58.89	-74.03	-66.2	-5.69
253.1	V	-69.52	-13	-56.52	-71.48	-68.26	-1.26
408.3	V	-71.15	-13	-58.15	-73.96	-69.91	-1.24

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 6					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-64.53	-13	-51.53	-72.76	-45.08	-19.45
59.1	H	-68.02	-13	-55.02	-68.92	-53.94	-14.08
90.14	H	-66.2	-13	-53.2	-64.11	-61.29	-4.91
160.95	H	-72.26	-13	-59.26	-71.38	-66.06	-6.2
280.26	H	-68.73	-13	-55.73	-66.69	-67.46	-1.27
424.79	H	-70.14	-13	-57.14	-72.81	-68.87	-1.27
43.58	V	-65.99	-13	-52.99	-62.88	-48.88	-17.11
90.14	V	-69.68	-13	-56.68	-67.34	-64.77	-4.91
120.21	V	-71.11	-13	-58.11	-71.29	-65.04	-6.07
167.74	V	-72.29	-13	-59.29	-74.43	-66.6	-5.69
277.35	V	-70.49	-13	-57.49	-72.28	-69.22	-1.27
408.3	V	-70.47	-13	-57.47	-73.28	-69.23	-1.24

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 7					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-64.51	-13	-51.51	-72.74	-45.06	-19.45
62.01	H	-69.63	-13	-56.63	-69.74	-56.42	-13.21
97.9	H	-70.49	-13	-57.49	-68.69	-65.5	-4.99
161.92	H	-70.73	-13	-57.73	-69.77	-64.6	-6.13
260.86	H	-69.56	-13	-56.56	-66.83	-68.3	-1.26
318.09	H	-72.36	-13	-59.36	-72.15	-71.16	-1.2
43.58	V	-68.15	-13	-55.15	-65.04	-51.04	-17.11
61.04	V	-70.71	-13	-57.71	-68.23	-57.18	-13.53
120.21	V	-70.43	-13	-57.43	-70.61	-64.36	-6.07
167.74	V	-71.27	-13	-58.27	-73.41	-65.58	-5.69
246.31	V	-71.02	-13	-58.02	-72.81	-69.64	-1.38
575.14	V	-68.27	-13	-55.27	-75.88	-66.73	-1.54

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 8					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-64.32	-13	-51.32	-72.55	-44.87	-19.45
61.4	H	-67.2	-13	-54.2	-67.54	-53.67	-13.53
97.9	H	-70.4	-13	-57.4	-68.6	-65.41	-4.99
167.74	H	-71.44	-13	-58.44	-69.97	-65.75	-5.69
320.03	H	-69.88	-13	-56.88	-69.8	-68.68	-1.2
771.08	H	-63.37	-13	-50.37	-72.4	-61.36	-2.01
42.61	V	-68.34	-13	-55.34	-65.05	-51.1	-17.24
105.66	V	-70.85	-13	-57.85	-69.45	-65.54	-5.31
263.77	V	-72.1	-13	-59.1	-73.98	-70.84	-1.26
360.77	V	-70.73	-13	-57.73	-72.97	-69.61	-1.12
408.3	V	-69.12	-13	-56.12	-71.93	-67.88	-1.24
771.08	V	-58.44	-13	-45.44	-68.18	-56.43	-2.01

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 9					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-65.84	-13	-52.84	-74.07	-46.39	-19.45
90.14	H	-70.69	-13	-57.69	-68.6	-65.78	-4.91
277.35	H	-70.89	-13	-57.89	-68.74	-69.62	-1.27
320.03	H	-70.35	-13	-57.35	-70.27	-69.15	-1.2
408.3	H	-70.02	-13	-57.02	-72.45	-68.78	-1.24
771.08	H	-63.83	-13	-50.83	-72.86	-61.82	-2.01
43.58	V	-68.81	-13	-55.81	-65.7	-51.7	-17.11
61.04	V	-69.94	-13	-56.94	-67.46	-56.41	-13.53
105.66	V	-71.72	-13	-58.72	-70.32	-66.41	-5.31
120.21	V	-71.95	-13	-58.95	-72.13	-65.88	-6.07
249.2	V	-70.21	-13	-57.21	-72.15	-68.92	-1.29
771.08	V	-58.43	-13	-45.43	-68.17	-56.42	-2.01

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 10					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
43.58	H	-68.81	-13	-55.81	-65.7	-49.36	-19.45
61.04	H	-69.94	-13	-56.94	-67.46	-56.41	-13.53
105.66	H	-71.72	-13	-58.72	-70.32	-70.49	-1.23
120.21	H	-71.95	-13	-58.95	-72.13	-70.71	-1.24
249.22	H	-70.21	-13	-57.21	-72.15	-68.19	-2.02
771.08	H	-58.43	-13	-45.43	-68.17	-55.86	-2.57
30	V	-64.61	-13	-51.61	-72.84	-47.24	-17.37
61.04	V	-67.58	-13	-54.58	-67.92	-66.27	-1.31
311.3	V	-66.41	-13	-53.41	-65.78	-64.71	-1.7
408.3	V	-67.79	-13	-54.79	-70.22	-65.78	-2.01
769.14	V	-56.53	-13	-43.53	-65.53	-54.49	-2.04
940.83	V	-54.75	-13	-41.75	-65.7	-52.18	-2.57

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 11					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-64.18	-13	-51.18	-72.41	-44.73	-19.45
59.1	H	-67.47	-13	-54.47	-68.37	-53.39	-14.08
251.16	H	-67.93	-13	-54.93	-64.86	-66.67	-1.26
311.3	H	-63.87	-13	-50.87	-63.24	-62.64	-1.23
408.3	H	-68	-13	-55	-70.43	-66.76	-1.24
940.83	H	-59.86	-13	-46.86	-70.81	-57.29	-2.57
41.64	V	-64.38	-13	-51.38	-60.92	-47.01	-17.37
59.1	V	-69.74	-13	-56.74	-67.3	-55.66	-14.08
155.13	V	-68.64	-13	-55.64	-70.79	-62.25	-6.39
242.43	V	-68.4	-13	-55.4	-69.99	-66.89	-1.51
311.3	V	-69.46	-13	-56.46	-71.2	-68.23	-1.23
940.83	V	-56.08	-13	-43.08	-68.97	-53.51	-2.57

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 12					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-64.12	-13	-51.12	-72.35	-44.67	-19.45
101.78	H	-70.91	-13	-57.91	-69.05	-65.8	-5.11
159.01	H	-70.65	-13	-57.65	-69.85	-64.36	-6.29
252.13	H	-68.74	-13	-55.74	-65.7	-67.48	-1.26
311.3	H	-64.47	-13	-51.47	-63.84	-63.24	-1.23
408.3	H	-67.48	-13	-54.48	-69.91	-66.24	-1.24
41.64	V	-65.83	-13	-52.83	-62.37	-48.46	-17.37
60.07	V	-70.66	-13	-57.66	-68.22	-56.8	-13.86
105.66	V	-72.19	-13	-59.19	-70.79	-66.88	-5.31
156.1	V	-71.4	-13	-58.4	-73.59	-65.03	-6.37
215.27	V	-71.28	-13	-58.28	-71.49	-68.87	-2.41
237.58	V	-71.86	-13	-58.86	-73.21	-70.19	-1.67

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 13					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
572.23	H	-49.97	-13	-36.97	-52.33	-46.31	-1.51
608.12	H	-44.12	-13	-31.12	-47.01	-40.19	-1.78
721.61	H	-46.02	-13	-33.02	-51.51	-42	-1.87
745.86	H	-47.74	-13	-34.74	-54.14	-43.51	-2.08
859.35	H	-48.93	-13	-35.93	-56.88	-44.76	-2.02
952.47	H	-46.8	-13	-33.8	-55.65	-41.98	-2.67
572.23	V	-44.89	-13	-31.89	-50.27	-41.23	-1.51
608.12	V	-40.52	-13	-27.52	-46.71	-36.59	-1.78
687.66	V	-39.62	-13	-26.62	-46.11	-35.78	-1.69
721.61	V	-38.89	-13	-25.89	-46.01	-34.87	-1.87
745.86	V	-40.18	-13	-27.18	-47.88	-35.95	-2.08
952.47	V	-39.87	-13	-26.87	-50.65	-35.05	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 14					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
572.23	H	-49.96	-13	-36.96	-52.32	-46.3	-1.51
608.12	H	-43.46	-13	-30.46	-46.35	-39.53	-1.78
687.66	H	-46.81	-13	-33.81	-52.3	-42.97	-1.69
721.61	H	-49.05	-13	-36.05	-55.45	-45.03	-1.87
745.86	H	-48.12	-13	-35.12	-56.07	-43.89	-2.08
952.47	H	-46.13	-13	-33.13	-54.98	-41.31	-2.67
549.92	V	-45.31	-13	-32.31	-50.03	-41.87	-1.29
572.23	V	-44.58	-13	-31.58	-49.96	-40.92	-1.51
608.2	V	-40.45	-13	-27.45	-46.64	-36.52	-1.78
721.61	V	-39.36	-13	-26.36	-46.48	-35.34	-1.87
745.86	V	-40.6	-13	-27.6	-48.3	-36.37	-2.08
952.47	V	-39.04	-13	-26.04	-49.82	-34.22	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 15					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
549.92	H	-51.11	-13	-38.11	-53.13	-47.67	-1.29
572.23	H	-50.19	-13	-37.19	-52.55	-46.53	-1.51
608.12	H	-44.08	-13	-31.08	-46.97	-40.15	-1.78
721.61	H	-47.63	-13	-34.63	-53.12	-43.61	-1.87
859.35	H	-47.46	-13	-34.46	-55.41	-43.29	-2.02
952.47	H	-45.13	-13	-32.13	-53.98	-40.31	-2.67
549.92	V	-45.99	-13	-32.99	-50.71	-42.55	-1.29
572.23	V	-44.05	-13	-31.05	-49.43	-40.39	-1.51
608.12	V	-40.31	-13	-27.31	-46.5	-36.38	-1.78
687.66	V	-39.19	-13	-26.19	-45.68	-35.35	-1.69
721.61	V	-39.33	-13	-26.33	-46.45	-35.31	-1.87
952.47	V	-39.81	-13	-26.81	-50.59	-34.99	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 16					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
665.35	H	-41.36	-13	-28.36	-45.27	-37.51	-1.7
687.66	H	-40.66	-13	-27.66	-45.07	-36.82	-1.69
721.61	H	-41.82	-13	-28.82	-47.31	-37.8	-1.87
745.86	H	-41.62	-13	-28.62	-48.02	-37.39	-2.08
859.35	H	-47.38	-13	-34.38	-55.33	-43.21	-2.02
952.47	H	-47.39	-13	-34.39	-56.24	-42.57	-2.67
665.35	V	-39.77	-13	-26.77	-46.06	-35.92	-1.7
687.66	V	-38.38	-13	-25.38	-44.87	-34.54	-1.69
721.61	V	-41.78	-13	-28.78	-48.9	-37.76	-1.87
745.86	V	-41.4	-13	-28.4	-49.1	-37.17	-2.08
859.35	V	-44.02	-13	-31.02	-52.69	-39.85	-2.02
952.47	V	-39.82	-13	-26.82	-50.6	-35	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 17					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
665.35	H	-42.54	-13	-29.54	-46.45	-38.69	-1.7
687.66	H	-40.95	-13	-27.95	-45.36	-37.11	-1.69
721.61	H	-44.59	-13	-31.59	-50.08	-40.57	-1.87
745.86	H	-43.26	-13	-30.26	-49.66	-39.03	-2.08
802.12	H	-51.09	-13	-38.09	-58.43	-47.06	-1.88
859.35	H	-51.69	-13	-38.69	-59.64	-47.52	-2.02
665.35	V	-43.62	-13	-30.62	-50.15	-39.77	-1.7
687.66	V	-44.73	-13	-31.73	-51.22	-40.89	-1.69
721.61	V	-40.73	-13	-27.73	-47.85	-36.71	-1.87
745.86	V	-40.81	-13	-27.81	-48.51	-36.58	-2.08
859.35	V	-42.6	-13	-29.6	-51.27	-38.43	-2.02
952.47	V	-39.2	-13	-26.2	-49.98	-34.38	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 18					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
665.35	H	-42.16	-13	-29.16	-46.07	-38.31	-1.7
687.66	H	-41.18	-13	-28.18	-45.59	-37.34	-1.69
721.61	H	-43.22	-13	-30.22	-48.71	-39.2	-1.87
745.86	H	-43.41	-13	-30.41	-49.81	-39.18	-2.08
802.12	H	-51.14	-13	-38.14	-58.48	-47.11	-1.88
859.35	H	-50.5	-13	-37.5	-58.45	-46.33	-2.02
721.61	V	-41.32	-13	-28.32	-48.44	-37.3	-1.87
745.86	V	-40.78	-13	-27.78	-48.48	-36.55	-2.08
802.12	V	-46.6	-13	-33.6	-53.93	-42.57	-1.88
859.35	V	-42.84	-13	-29.84	-51.51	-38.67	-2.02
916.58	V	-48.42	-13	-35.42	-59.06	-43.96	-2.31
952.47	V	-39.01	-13	-26.01	-49.79	-34.19	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 19					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
32.91	H	-65.53	-13	-52.53	-71.04	-44.64	-18.74
58.13	H	-68.57	-13	-55.57	-67.65	-52.13	-14.29
478.14	H	-67.53	-13	-54.53	-68.72	-64.09	-1.29
598.42	H	-62.53	-13	-49.53	-65.28	-58.61	-1.77
730.34	H	-52.66	-13	-39.66	-58.48	-48.57	-1.94
746.83	H	-56.01	-13	-43.01	-62.45	-51.78	-2.08
33.88	V	-66.05	-13	-53.05	-59.25	-45.4	-18.5
598.42	V	-61.09	-13	-48.09	-67.24	-57.17	-1.77
687.66	V	-53.55	-13	-40.55	-60.04	-49.71	-1.69
730.34	V	-54	-13	-41	-61.34	-49.91	-1.94
746.83	V	-53.42	-13	-40.42	-61.15	-49.19	-2.08
916.58	V	-55.64	-13	-42.64	-66.28	-51.18	-2.31

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 20					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-67.91	-13	-54.91	-73.99	-46.31	-19.45
59.1	H	-69.23	-13	-56.23	-67.98	-53	-14.08
227.88	H	-71.06	-13	-58.06	-64.56	-66.92	-1.99
478.14	H	-69.15	-13	-56.15	-70.34	-65.71	-1.29
598.42	H	-61.01	-13	-48.01	-63.76	-57.09	-1.77
916.58	H	-60.58	-13	-47.58	-69.27	-56.12	-2.31
350.1	V	-70.88	-13	-57.88	-55.73	-67.64	-1.09
478.14	V	-65.63	-13	-52.63	-50.48	-62.19	-1.29
598.42	V	-60.51	-13	-47.51	-45.36	-56.59	-1.77
687.66	V	-54.95	-13	-41.95	-39.8	-51.11	-1.69
916.58	V	-55.19	-13	-42.19	-40.04	-50.73	-2.31
936.95	V	-59.44	-13	-46.44	-44.29	-54.76	-2.53

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 21					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-66.56	-13	-53.56	-72.64	-44.96	-19.45
59.1	H	-69.12	-13	-56.12	-67.87	-52.89	-14.08
598.42	H	-63.67	-13	-50.67	-66.42	-59.75	-1.77
728.4	H	-55.68	-13	-42.68	-61.43	-51.6	-1.93
746.83	H	-61.74	-13	-48.74	-68.18	-57.51	-2.08
916.58	H	-60.96	-13	-47.96	-69.65	-56.5	-2.31
32.91	V	-63.85	-13	-50.85	-56.98	-42.96	-18.74
598.42	V	-59.93	-13	-46.93	-66.08	-56.01	-1.77
687.66	V	-55.31	-13	-42.31	-61.8	-51.47	-1.69
730.34	V	-49.96	-13	-36.96	-57.3	-45.87	-1.94
746.83	V	-52.86	-13	-39.86	-60.59	-48.63	-2.08
916.58	V	-55.46	-13	-42.46	-66.1	-51	-2.31

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 22					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
62.01	H	-56.98	-13	-43.98	-54.94	-41.62	-13.21
167.74	H	-57.56	-13	-44.56	-53.94	-49.72	-5.69
276.38	H	-61.59	-13	-48.59	-57.26	-58.17	-1.27
360.77	H	-61.36	-13	-48.36	-61.15	-58.09	-1.12
687.66	H	-53.36	-13	-40.36	-57.77	-49.52	-1.69
777.87	H	-60.1	-13	-47.1	-67.09	-55.97	-1.98
155.13	V	-56.15	-13	-43.15	-56.15	-47.64	-6.36
167.74	V	-56.44	-13	-43.44	-56.43	-48.6	-5.69
360.77	V	-63.41	-13	-50.41	-63.5	-60.14	-1.12
687.66	V	-52.35	-13	-39.35	-58.84	-48.51	-1.69
741.01	V	-53.02	-13	-40.02	-60.61	-48.84	-2.03
916.58	V	-54.92	-13	-41.92	-65.56	-50.46	-2.31

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 23					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
63.95	H	-58.98	-13	-45.98	-56.48	-44.26	-12.57
167.74	H	-58.64	-13	-45.64	-55.02	-50.8	-5.69
276.38	H	-59.91	-13	-46.91	-55.58	-56.49	-1.27
371.44	H	-60.48	-13	-47.48	-60.37	-57.18	-1.15
687.66	H	-53.52	-13	-40.52	-57.93	-49.68	-1.69
777.87	H	-61.25	-13	-48.25	-68.24	-57.12	-1.98
76.56	V	-64.6	-13	-51.6	-61.25	-54.07	-8.38
155.13	V	-52.32	-13	-39.32	-52.32	-43.78	-6.39
564.47	V	-62.61	-13	-49.61	-67.76	-59.03	-1.43
687.66	V	-58.39	-13	-45.39	-64.88	-54.55	-1.69
777.87	V	-60.91	-13	-47.91	-68.43	-56.78	-1.98
916.58	V	-54.76	-13	-41.76	-65.4	-50.3	-2.31

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 24					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
63.95	H	-58.7	-13	-45.7	-56.2	-43.98	-12.57
155.13	H	-58.59	-13	-45.59	-55.66	-50.05	-6.39
276.38	H	-60.15	-13	-47.15	-55.82	-56.73	-1.27
371.44	H	-60.66	-13	-47.66	-60.55	-57.36	-1.15
687.66	H	-53.32	-13	-40.32	-57.73	-49.48	-1.69
777.87	H	-60.47	-13	-47.47	-67.46	-56.34	-1.98
63.95	V	-63.8	-13	-50.8	-59.03	-49.08	-12.57
155.13	V	-56.35	-13	-43.35	-56.35	-47.81	-6.39
577.08	V	-62.82	-13	-49.82	-68.34	-59.11	-1.56
687.66	V	-58.39	-13	-45.39	-64.88	-54.55	-1.69
746.83	V	-58.22	-13	-45.22	-59.95	-53.99	-2.08
916.58	V	-54.19	-13	-41.19	-64.83	-49.73	-2.31

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 25					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
672.14	H	-46.21	-13	-33.21	-50.27	-42.36	-1.7
687.66	H	-46.1	-13	-33.1	-50.51	-42.26	-1.69
745.86	H	-45.1	-13	-32.1	-51.5	-40.87	-2.08
859.35	H	-45.85	-13	-32.85	-53.8	-41.68	-2.02
902.03	H	-45.5	-13	-32.5	-54.12	-41.2	-2.15
959.26	H	-50.5	-13	-37.5	-59.41	-45.68	-2.67
672.14	V	-47.55	-13	-34.55	-53.9	-43.7	-1.7
687.66	V	-48.16	-13	-35.16	-54.65	-44.32	-1.69
745.86	V	-49.65	-13	-36.65	-57.35	-45.42	-2.08
859.35	V	-49.56	-13	-36.56	-58.23	-45.39	-2.02
902.03	V	-47.16	-13	-34.16	-57.73	-42.86	-2.15
959.26	V	-55.37	-13	-42.37	-66.17	-50.55	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 26					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
672.14	H	-48.14	-13	-35.14	-52.2	-44.29	-1.7
687.66	H	-47.34	-13	-34.34	-51.75	-43.5	-1.69
745.86	H	-46.69	-13	-33.69	-53.09	-42.46	-2.08
859.35	H	-45.21	-13	-32.21	-53.16	-41.04	-2.02
902.03	H	-43.83	-13	-30.83	-52.45	-39.53	-2.15
959.26	H	-51.82	-13	-38.82	-60.73	-47	-2.67
672.14	V	-48.46	-13	-35.46	-54.81	-44.61	-1.7
687.66	V	-47.72	-13	-34.72	-54.21	-43.88	-1.69
745.86	V	-49.81	-13	-36.81	-57.51	-45.58	-2.08
859.35	V	-49.78	-13	-36.78	-58.45	-45.61	-2.02
902.03	V	-47.92	-13	-34.92	-58.49	-43.62	-2.15
959.26	V	-54.27	-13	-41.27	-65.07	-49.45	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 27					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
672.14	H	-48.14	-13	-35.14	-52.2	-44.29	-1.7
687.66	H	-49.14	-13	-36.14	-53.55	-45.3	-1.69
745.86	H	-47.31	-13	-34.31	-53.71	-43.08	-2.08
859.35	H	-44.2	-13	-31.2	-52.15	-40.03	-2.02
902.03	H	-42.22	-13	-29.22	-50.84	-37.92	-2.15
959.26	H	-51.51	-13	-38.51	-60.42	-46.69	-2.67
617.91	V	-56.13	-13	-43.13	-62.32	-52.21	-1.77
672.14	V	-46.57	-13	-33.57	-52.92	-42.72	-1.7
687.66	V	-47.75	-13	-34.75	-54.24	-43.91	-1.69
745.86	V	-50.21	-13	-37.21	-57.91	-45.98	-2.08
859.35	V	-49.55	-13	-36.55	-58.22	-45.38	-2.02
902.03	V	-46.44	-13	-33.44	-57.01	-42.14	-2.15

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 28					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
614.91	H	-49.7	-13	-36.7	-52.71	-45.78	-1.77
672.14	H	-40.46	-13	-27.46	-44.52	-36.61	-1.7
687.66	H	-42.37	-13	-29.37	-46.78	-38.53	-1.69
802.12	H	-53.75	-13	-40.75	-61.09	-49.72	-1.88
859.35	H	-48.83	-13	-35.83	-56.78	-44.66	-2.02
902.03	H	-47.64	-13	-34.64	-56.26	-43.34	-2.15
672.14	V	-41	-13	-28	-47.35	-37.15	-1.7
687.66	V	-40.85	-13	-27.85	-47.34	-37.01	-1.69
802.12	V	-49.79	-13	-36.79	-57.12	-45.76	-1.88
859.35	V	-43.87	-13	-30.87	-52.54	-39.7	-2.02
902.03	V	-39.68	-13	-26.68	-50.25	-35.38	-2.15
959.26	V	-46.56	-13	-33.56	-57.36	-41.74	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 29					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
614.91	H	-50.25	-13	-37.25	-53.17	-46.33	-1.77
672.14	H	-41.24	-13	-28.24	-45.3	-37.39	-1.7
687.66	H	-42.6	-13	-29.6	-47.1	-38.76	-1.69
802.12	H	-53.94	-13	-40.94	-61.28	-49.91	-1.88
859.35	H	-51.59	-13	-38.59	-59.54	-47.42	-2.02
902.03	H	-52.04	-13	-39.04	-60.66	-47.74	-2.15
672.14	V	-44.91	-13	-31.91	-51.26	-41.06	-1.7
687.66	V	-46.53	-13	-33.53	-53.02	-42.69	-1.69
802.12	V	-50.08	-13	-37.08	-57.41	-46.05	-1.88
859.35	V	-43.56	-13	-30.56	-52.23	-39.39	-2.02
902.03	V	-39.61	-13	-26.61	-50.18	-35.31	-2.15
959.26	V	-46.99	-13	-33.99	-57.79	-42.17	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 30					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
614.91	H	-50.45	-13	-37.45	-53.46	-46.53	-1.77
672.14	H	-41.34	-13	-28.34	-45.4	-37.49	-1.7
687.66	H	-42	-13	-29	-46.41	-38.16	-1.69
802.12	H	-54.1	-13	-41.1	-61.44	-50.07	-1.88
859.35	H	-51.33	-13	-38.33	-59.28	-47.16	-2.02
902.03	H	-52.37	-13	-39.37	-60.99	-48.07	-2.15
614.91	V	-49.68	-13	-36.68	-55.87	-45.76	-1.77
672.14	V	-45.55	-13	-32.55	-51.9	-41.7	-1.7
687.66	V	-46.82	-13	-33.82	-53.31	-42.98	-1.69
859.35	V	-43.51	-13	-30.51	-52.18	-39.34	-2.02
902.03	V	-40.18	-13	-27.18	-50.75	-35.88	-2.15
959.26	V	-46.95	-13	-33.95	-57.75	-42.13	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

NB-IoT Intenal Antenna

Test mode		Mode 31					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-64.47	-13	-51.47	-72.7	-45.02	-19.45
73.65	H	-64.99	-13	-51.99	-62.58	-55.65	-9.34
311.3	H	-67.44	-13	-54.44	-66.81	-66.21	-1.23
408.3	H	-67.74	-13	-54.74	-70.17	-66.5	-1.24
455.83	H	-69.05	-13	-56.05	-72.14	-67.74	-1.31
630.43	H	-49.96	-13	-36.96	-55.36	-48.22	-1.74
41.64	V	-63.67	-13	-50.67	-60.21	-46.3	-17.37
105.66	V	-68.71	-13	-55.71	-67.31	-63.4	-5.31
263.77	V	-70.58	-13	-57.58	-72.46	-69.32	-1.26
360.77	V	-70.53	-13	-57.53	-72.77	-69.41	-1.12
439.34	V	-69.04	-13	-56.04	-72.4	-67.74	-1.3
630.43	V	-52.45	-13	-39.45	-60.77	-50.71	-1.74

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 32					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-64.93	-13	-51.93	-73.16	-45.48	-19.45
46.49	H	-67.4	-13	-54.4	-73.26	-50.73	-16.67
667.29	H	-63.62	-13	-50.62	-69.72	-61.92	-1.7
771.08	H	-45.74	-13	-32.74	-54.77	-43.73	-2.01
869.05	H	-60.55	-13	-47.55	-70.81	-58.51	-2.04
940.83	H	-47.96	-13	-34.96	-58.91	-45.39	-2.57
41.64	V	-64.7	-13	-51.7	-51.7	-47.33	-17.37
73.65	V	-65.67	-13	-52.67	-52.67	-56.33	-9.34
105.66	V	-68.74	-13	-55.74	-55.74	-63.43	-5.31
771.08	V	-48.98	-13	-35.98	-35.98	-46.97	-2.01
869.05	V	-62.86	-13	-49.86	-49.86	-60.82	-2.04
940.83	V	-48.75	-13	-35.75	-35.75	-46.18	-2.57

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 33					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
608.12	H	-49.65	-13	-36.65	-52.54	-45.72	-1.78
665.35	H	-44.7	-13	-31.7	-48.61	-40.85	-1.7
687.66	H	-38.33	-13	-25.33	-42.74	-34.49	-1.69
721.61	H	-38.97	-13	-25.97	-44.46	-34.95	-1.87
745.86	H	-41.69	-13	-28.69	-48.09	-37.46	-2.08
802.12	H	-39.84	-13	-26.84	-47.18	-35.81	-1.88
608.12	V	-48.72	-13	-35.72	-54.91	-44.79	-1.78
665.35	V	-44.64	-13	-31.64	-50.93	-40.79	-1.7
687.66	V	-36.74	-13	-23.74	-43.23	-32.9	-1.69
721.61	V	-36.57	-13	-23.57	-43.69	-32.55	-1.87
745.86	V	-38.83	-13	-25.83	-46.53	-34.6	-2.08
802.12	V	-40.87	-13	-27.87	-48.2	-36.84	-1.88

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 34					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30	H	-67.9	-13	-54.9	-73.98	-46.3	-19.45
63.95	H	-68.76	-13	-55.76	-66.26	-54.04	-12.57
478.14	H	-58.81	-13	-45.81	-60	-55.37	-1.29
667.29	H	-59.63	-13	-46.63	-63.58	-55.78	-1.7
687.66	H	-49.19	-13	-36.19	-53.6	-45.35	-1.69
916.58	H	-59.53	-13	-46.53	-68.22	-55.07	-2.31
41.64	V	-63.07	-13	-50.07	-57.46	-43.55	-17.37
478.14	V	-60.96	-13	-47.96	-62.97	-57.52	-1.29
598.42	V	-66.85	-13	-53.85	-73	-62.93	-1.77
667.29	V	-61.38	-13	-48.38	-67.69	-57.53	-1.7
687.66	V	-51.38	-13	-38.38	-57.87	-47.54	-1.69
916.58	V	-58.7	-13	-45.7	-69.34	-54.24	-2.31

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 35					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
556.71	H	-54.94	-13	-41.94	-57.06	-51.43	-1.36
630.43	H	-59.19	-13	-46.19	-62.44	-55.3	-1.74
672.14	H	-47.7	-13	-34.7	-51.76	-43.85	-1.7
687.66	H	-50.84	-13	-37.84	-55.25	-47	-1.69
802.12	H	-46.26	-13	-33.26	-53.6	-42.23	-1.88
902.03	H	-51.05	-13	-38.05	-59.67	-46.75	-2.15
142.52	V	-62.52	-13	-49.52	-61.96	-53.67	-6.7
672.14	V	-48.33	-13	-35.33	-54.68	-44.48	-1.7
687.66	V	-51.47	-13	-38.47	-57.96	-47.63	-1.69
802.12	V	-49.47	-13	-36.47	-56.8	-45.44	-1.88
902.03	V	-49.18	-13	-36.18	-59.75	-44.88	-2.15
916.58	V	-57.55	-13	-44.55	-68.19	-53.09	-2.31

Note: ERP = S.G Power value + Correction factor - 2.15

Cat-M1 External Antenna

Test mode		Mode 1					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
62.01	H	-55.92	-13	-42.92	-56.03	-42.71	-13.21
155.13	H	-51.48	-13	-38.48	-50.7	-45.09	-6.39
276.38	H	-59.58	-13	-46.58	-57.4	-58.31	-1.27
373.38	H	-57.72	-13	-44.72	-59.78	-56.56	-1.16
383.08	H	-60.5	-13	-47.5	-62.65	-59.32	-1.18
575.14	H	-62.25	-13	-49.25	-66.79	-60.71	-1.54
62.01	V	-62.76	-13	-49.76	-60.23	-49.55	-13.21
156.1	V	-56.06	-13	-43.06	-58.25	-49.69	-6.37
276.38	V	-61.83	-13	-48.83	-63.63	-60.56	-1.27
384.05	V	-61.49	-13	-48.49	-63.98	-60.3	-1.19
577.08	V	-61.24	-13	-48.24	-68.91	-59.68	-1.56
940.83	V	-47.06	-13	-34.06	-59.95	-44.49	-2.57

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 2					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
63.95	H	-57.52	-13	-44.52	-57.17	-44.95	-12.57
143.49	H	-59.65	-13	-46.65	-58.95	-52.98	-6.67
155.13	H	-57.03	-13	-44.03	-56.25	-50.64	-6.39
276.38	H	-58.95	-13	-45.95	-56.77	-57.68	-1.27
360.77	H	-60.15	-13	-47.15	-62.09	-59.03	-1.12
383.08	H	-60.43	-13	-47.43	-62.58	-59.25	-1.18
76.56	V	-62.75	-13	-49.75	-61.55	-54.37	-8.38
155.13	V	-56.41	-13	-43.41	-58.56	-50.02	-6.39
276.38	V	-63.76	-13	-50.76	-65.56	-62.49	-1.27
385.9	V	-65.33	-13	-52.33	-67.84	-64.14	-1.19
577.08	V	-62.16	-13	-49.16	-69.83	-60.6	-1.56
940.83	V	-48.39	-13	-35.39	-61.28	-45.82	-2.57

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 3					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
62.01	H	-58.2	-13	-45.2	-58.31	-44.99	-13.21
143.49	H	-56.6	-13	-43.6	-55.95	-49.93	-6.67
155.13	H	-55.74	-13	-42.74	-54.96	-49.35	-6.39
167.74	H	-60.88	-13	-47.88	-59.41	-55.19	-5.69
276.38	H	-59.04	-13	-46.04	-56.86	-57.77	-1.27
360.77	H	-59.78	-13	-46.78	-61.72	-58.66	-1.12
63.95	V	-63.36	-13	-50.36	-60.74	-50.79	-12.57
155.13	V	-55.69	-13	-42.69	-57.84	-49.3	-6.39
276.38	V	-64.28	-13	-51.28	-66.08	-63.01	-1.27
360.77	V	-63.54	-13	-50.54	-65.78	-62.42	-1.12
384.05	V	-65.04	-13	-52.04	-67.53	-63.85	-1.19
577.08	V	-61.64	-13	-48.64	-69.31	-60.08	-1.56

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 4					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
595.51	H	-47.77	-13	-34.77	-50.47	-43.87	-1.75
652.74	H	-47.96	-13	-34.96	-51.58	-44.1	-1.71
687.66	H	-51.89	-13	-38.89	-56.3	-48.05	-1.69
709.97	H	-53.93	-13	-40.93	-58.99	-50.01	-1.77
916.58	H	-60.36	-13	-47.36	-69.05	-55.9	-2.31
939.86	H	-57.43	-13	-44.43	-66.22	-52.72	-2.56
595.51	V	-48.45	-13	-35.45	-54.51	-44.55	-1.75
652.74	V	-50.19	-13	-37.19	-56.36	-46.33	-1.71
709.97	V	-52.63	-13	-39.63	-59.48	-48.71	-1.77
802.12	V	-49.3	-13	-36.3	-56.63	-45.27	-1.88
916.58	V	-48.23	-13	-35.23	-58.87	-43.77	-2.31
939.86	V	-47.99	-13	-34.99	-58.72	-43.28	-2.56

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 5					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
155.13	H	-54.77	-13	-41.77	-51.84	-46.23	-6.39
595.51	H	-50.02	-13	-37.02	-52.72	-46.12	-1.75
630.43	H	-58.23	-13	-45.23	-61.48	-54.34	-1.74
687.66	H	-52.41	-13	-39.41	-56.82	-48.57	-1.69
786.17	H	-56.5	-13	-43.5	-63.34	-52.32	-2.03
802.12	H	-54.15	-13	-41.15	-61.49	-50.12	-1.88
652.74	V	-42.76	-13	-29.76	-48.93	-38.9	-1.71
687.66	V	-48.02	-13	-35.02	-54.51	-44.18	-1.69
709.97	V	-47.81	-13	-34.81	-54.66	-43.89	-1.77
745.86	V	-39.51	-13	-26.51	-47.21	-35.28	-2.08
916.58	V	-48.36	-13	-35.36	-59	-43.9	-2.31
939.86	V	-44.6	-13	-31.6	55.33	-39.89	-2.56

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 6					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
595.51	H	-58.21	-13	-45.21	-60.91	-54.31	-1.75
652.74	H	-45.75	-13	-32.75	-49.37	-41.89	-1.71
687.66	H	-39.46	-13	-26.46	-43.87	-35.62	-1.69
709.97	H	-46.61	-13	-33.61	-51.67	-42.69	-1.77
745.86	H	-46.08	-13	-33.08	-52.48	-41.85	-2.08
939.86	H	-58.35	-13	-45.35	-67.14	-53.64	-2.56
652.74	V	-49.21	-13	-36.21	-55.38	-45.35	-1.71
745.86	V	-43.53	-13	-30.53	-51.23	-39.3	-2.08
802.12	V	-49.72	-13	-36.72	-57.05	-45.69	-1.88
916.58	V	-48.47	-13	-35.47	-59.11	-44.01	-2.31
939.86	V	-39.9	-13	-26.9	-50.63	-35.19	-2.56
974.78	V	-48.62	-13	-35.62	-59.47	-43.8	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 7					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
155.13	H	-60.08	-13	-47.08	-57.15	-51.54	-6.39
572.23	H	-57.62	-13	-44.62	-59.98	-53.96	-1.51
584.84	H	-53.84	-13	-40.84	-56.38	-50.05	-1.64
687.66	H	-47.43	-13	-34.43	-51.84	-43.59	-1.69
745.86	H	-52.34	-13	-39.34	-58.74	-48.11	-2.08
814.73	H	-53.82	-13	-40.82	-61.28	-49.76	-1.91
155.13	V	-58.65	-13	-45.65	-58.65	-50.11	-6.39
584.84	V	-48.71	-13	-35.71	-54.46	-44.92	-1.64
814.73	V	-45.9	-13	-32.9	-53.47	-41.84	-1.91
859.35	V	-48.66	-13	-35.66	-57.33	-44.49	-2.02
916.58	V	-57.13	-13	-44.13	-67.77	-52.67	-2.31
930.16	V	-50.14	-13	-37.14	-60.83	-45.53	-2.46

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 8					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
155.13	H	-54.05	-13	-41.05	-51.12	-45.51	-6.39
286.08	H	-61.48	-13	-48.48	-57.49	-58.06	-1.27
572.23	H	-56.68	-13	-43.68	-59.04	-53.02	-1.51
630.43	H	-59.82	-13	-46.82	-63.07	-55.93	-1.74
687.66	H	-47.55	-13	-34.55	-51.96	-43.71	-1.69
814.73	H	-50.28	-13	-37.28	-57.74	-46.22	-1.91
572.23	V	-55.79	-13	-42.79	-61.17	-52.13	-1.51
584.84	V	-53.56	-13	-40.56	-59.32	-49.77	-1.64
687.66	V	-52.19	-13	-39.19	-58.68	-48.35	-1.69
814.73	V	-44.67	-13	-31.67	-52.24	-40.61	-1.91
859.35	V	-49.79	-13	-36.79	-58.46	-45.62	-2.02
871.96	V	-47.16	-13	-34.16	-56.41	-42.96	-2.05

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 9					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
155.13	H	-59.07	-13	-46.07	-56.14	-50.53	-6.39
584.84	H	-59.29	-13	-46.29	-61.83	-55.5	-1.64
630.43	H	-58.07	-13	-45.07	-61.32	-54.18	-1.74
687.66	H	-51.17	-13	-38.17	-55.58	-47.33	-1.69
802.12	H	-56.26	-13	-43.26	-63.6	-52.23	-1.88
814.73	H	-57.69	-13	-44.69	-65.15	-53.63	-1.91
572.23	V	-53.95	-13	-40.95	-59.33	-50.29	-1.51
584.84	V	-52.54	-13	-39.54	-58.29	-48.75	-1.64
802.12	V	-53.42	-13	-40.42	-60.75	-49.39	-1.88
814.73	V	-51.34	-13	-38.34	-58.91	-47.28	-1.91
859.35	V	-50.43	-13	-37.43	-59.1	-46.26	-2.02
871.96	V	-51.36	-13	-38.36	-60.61	-47.16	-2.05

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 10					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
390.84	H	-34.84	-13	-21.84	-34.92	-31.49	-1.2
669.23	H	-47.71	-13	-34.71	-51.7	-43.86	-1.7
687.66	H	-50.88	-13	-37.88	-55.29	-47.04	-1.69
802.12	H	-56.81	-13	-43.81	-64.15	-52.78	-1.88
859.35	H	-50.62	-13	-37.62	-58.57	-46.45	-2.02
899.12	H	-46.91	-13	-33.91	-55.51	-42.63	-2.13
392.78	V	-30.9	-13	-17.9	-31.34	-27.54	-1.21
612	V	-49.2	-13	-36.2	-55.39	-45.28	-1.77
687.66	V	-46.81	-13	-33.81	-53.3	-42.97	-1.69
859.35	V	-46.51	-13	-33.51	-55.18	-42.34	-2.02
899.12	V	-44.46	-13	-31.46	-54.98	-40.18	-2.13
956.35	V	-49.66	-13	-36.66	-60.46	-44.84	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 11					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
390.84	H	-35.49	-13	-22.49	-35.57	-32.14	-1.2
612	H	-55.27	-13	-42.27	-58.23	-51.35	-1.77
669.23	H	-45.19	-13	-32.19	-49.18	-41.34	-1.7
687.66	H	-55.21	-13	-42.21	-59.62	-51.37	-1.69
859.35	H	-53.56	-13	-40.56	-61.51	-49.39	-2.02
899.12	H	-49.69	-13	-36.69	-58.29	-45.41	-2.13
390.84	V	-63.82	-13	-50.82	-34.24	-60.47	-1.2
669.23	V	-41.62	-13	-28.62	-47.95	-37.77	-1.7
687.66	V	-42.63	-13	-29.63	-49.42	-38.79	-1.69
859.35	V	-49.43	-13	-36.43	-58.1	-45.26	-2.02
899.12	V	-45.14	-13	-32.14	-55.66	-40.86	-2.13
956.35	V	-46.78	-13	-33.78	-57.58	-41.96	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 12					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
392.78	H	-30.5	-13	-17.5	-30.6	-27.14	-1.21
612	H	-53.18	-13	-40.18	-56.14	-49.26	-1.77
669.23	H	-43.73	-13	-30.73	-47.72	-39.88	-1.7
687.66	H	-47.05	-13	-34.05	-51.46	-43.21	-1.69
859.35	H	-50.02	-13	-37.02	-57.97	-45.85	-2.02
899.12	H	-48.43	-13	-35.43	-57.03	-44.15	-2.13
390.84	V	-31.18	-13	-18.18	-31.6	-27.83	-1.2
669.23	V	-41.89	-13	-28.89	-48.22	-38.04	-1.7
687.66	V	-42.39	-13	-29.39	-48.88	-38.55	-1.69
859.35	V	-46.42	-13	-33.42	-55.09	-42.25	-2.02
899.12	V	-39.16	-13	-26.16	-49.68	-34.88	-2.13
956.35	V	-46.71	-13	-33.71	-57.51	-41.89	-2.67

Note: ERP = S.G Power value + Correction factor - 2.15

3.1.4 Transmitter Radiated Unwanted Emissions (Above 1GHz)

Ambient Condition	22~23°C / 63~69%	Tested By	Brad Wu
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NB-IoT External Antenna

Test mode		Mode 1					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4330.2	H	-48.17	-13	-35.17	-62.95	-54.83	6.66
6810.2	H	-43.11	-13	-30.11	-62.96	-48.02	4.91
4330.2	V	-46.46	-13	-33.46	-61.24	-53.12	6.66
6810.2	V	-41.45	-13	-28.45	-61.39	-46.36	4.91

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 2					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4330.2	H	-48.1	-13	-35.1	-62.88	-54.76	6.66
6810.2	H	-42.63	-13	-29.63	-62.48	-47.54	4.91
4330.2	V	-46.31	-13	-33.31	-61.09	-52.97	6.66
6810.2	V	-41.5	-13	-28.5	-61.44	-46.41	4.91

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 3					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4330.2	H	-48.1	-13	-35.1	-62.88	-54.76	6.66
6810.2	H	-42.9	-13	-29.9	-62.75	-47.81	4.91
4330.2	V	-46.4	-13	-33.4	-61.18	-53.06	6.66
6810.2	V	-41.5	-13	-28.5	-61.44	-46.41	4.91

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 4					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4330.2	H	-48.1	-13	-35.1	-62.88	-54.76	6.66
6810.2	H	-43.01	-13	-30.01	-62.86	-47.92	4.91
4330.2	V	-46.38	-13	-33.38	-61.16	-53.04	6.66
6810.2	V	-41.58	-13	-28.58	-61.52	-46.49	4.91

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 5					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4330.2	H	-47.99	-13	-34.99	-62.77	-54.65	6.66
6810.2	H	-42.49	-13	-29.49	-62.34	-47.4	4.91
4330.2	V	-46.38	-13	-33.38	-61.16	-53.04	6.66
6810.2	V	-41.39	-13	-28.39	-61.33	-46.3	4.91

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 6					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4330.2	H	-47.94	-13	-34.94	-62.72	-54.6	6.66
6810.2	H	-42.52	-13	-29.52	-62.37	-47.43	4.91
4330.2	V	-46.46	-13	-33.46	-61.24	-53.12	6.66
6810.2	V	-41.58	-13	-28.58	-61.52	-46.49	4.91

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 7					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.2	H	-48.18	-13	-35.18	-62.54	-55.01	6.83
6670.2	H	-43.01	-13	-30.01	-62.88	-47.97	4.96
4190.2	V	-46.84	-13	-33.84	-61.15	-53.67	6.83
6670.2	V	-40.75	-13	-27.75	-61.24	-45.71	4.96

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 8					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.2	H	-48.02	-13	-35.02	-62.38	-54.85	6.83
6670.2	H	-42.88	-13	-29.88	-62.75	-47.84	4.96
4190.2	V	-46.97	-13	-33.97	-61.28	-53.8	6.83
6670.2	V	-40.89	-13	-27.89	-61.38	-45.85	4.96

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 9					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.2	H	-48.02	-13	-35.02	-62.38	-54.85	6.83
6670.2	H	-42.87	-13	-29.87	-62.74	-47.83	4.96
4190.2	V	-47.06	-13	-34.06	-61.37	-53.89	6.83
6670.2	V	-40.84	-13	-27.84	-61.33	-45.8	4.96

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 10					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.2	H	-48.33	-13	-35.33	-62.69	-55.16	6.83
6670.2	H	-43.01	-13	-30.01	-62.88	-47.97	4.96
4190.2	V	-48.65	-13	-35.65	-62.96	-55.48	6.83
6670.2	V	-41.68	-13	-28.68	-62.17	-46.64	4.96

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 11					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.2	H	-48.62	-13	-35.62	-62.98	-55.45	6.83
6670.2	H	-42.13	-13	-29.13	-62	-47.09	4.96
4190.2	V	-48.59	-13	-35.59	-62.9	-55.42	6.83
6670.2	V	-42.08	-13	-29.08	-62.57	-47.04	4.96

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 12					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.2	H	-48.52	-13	-35.52	-62.88	-55.35	6.83
6670.2	H	-43.02	-13	-30.02	-62.89	-47.98	4.96
4190.2	V	-48.46	-13	-35.46	-62.77	-55.29	6.83
6670.2	V	-42.08	-13	-29.08	-62.57	-47.04	4.96

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 13					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1643.5	H	-46.67	-13	-33.67	-50.75	-50.28	5.76
3316.5	H	-52.38	-13	-39.38	-63.21	-57.22	6.99
1643.5	V	-45.69	-13	-32.69	-49.87	-49.3	5.76
3316.5	V	-51.6	-13	-38.6	-62.45	-56.44	6.99

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 14					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1643.5	H	-46.55	-13	-33.55	-50.63	-50.16	5.76
3316.5	H	-52.52	-13	-39.52	-63.35	-57.36	6.99
1643.5	V	-45.6	-13	-32.6	-49.78	-49.21	5.76
3316.5	V	-51.47	-13	-38.47	-62.32	-56.31	6.99

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 15					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1643.5	H	-46.57	-13	-33.57	-50.65	-50.18	5.76
3316.5	H	-52.27	-13	-39.27	-63.1	-57.11	6.99
1643.5	V	-45.64	-13	-32.64	-49.82	-49.25	5.76
3316.5	V	-51.47	-13	-38.47	-62.32	-56.31	6.99

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 16					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1643.5	H	-46.57	-13	-33.57	-50.65	-50.18	5.76
3316.5	H	-52.23	-13	-39.23	-63.06	-57.07	6.99
1643.5	V	-45.51	-13	-32.51	-49.69	-49.12	5.76
3316.5	V	-51.43	-13	-38.43	-62.28	-56.27	6.99

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 17					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1643.5	H	-46.63	-13	-33.63	-50.71	-50.24	5.76
3316.5	H	-52.6	-13	-39.6	-63.43	-57.44	6.99
1643.5	V	-45.29	-13	-32.29	-49.47	-48.9	5.76
3316.5	V	-51.29	-13	-38.29	-62.14	-56.13	6.99

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 18					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1643.5	H	-46.51	-13	-33.51	-50.59	-50.12	5.76
3316.5	H	-52.39	-13	-39.39	-63.22	-57.23	6.99
1643.5	V	-45.43	-13	-32.43	-49.61	-49.04	5.76
3316.5	V	-51.37	-13	-38.37	-62.22	-56.21	6.99

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 19					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1772.5	H	-45.91	-13	-32.91	-50.63	-50.08	6.32
3187.5	H	-52.12	-13	-39.12	-62.63	-56.47	6.5
1772.5	V	-45.32	-13	-32.32	-49.88	-49.49	6.32
3187.5	V	-50.88	-13	-37.88	-61.33	-55.23	6.5

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 20					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1772.5	H	-45.86	-13	-32.86	-50.58	-50.03	6.32
3187.5	H	-51.77	-13	-38.77	-62.28	-56.12	6.5
1772.5	V	-45.29	-13	-32.29	-49.85	-49.46	6.32
3187.5	V	-51.37	-13	-38.37	-61.82	-55.72	6.5

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 21					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1772.5	H	-45.8	-13	-32.8	-50.52	-49.97	6.32
3187.5	H	-53.04	-13	-40.04	-63.55	-57.39	6.5
1772.5	V	-45.21	-13	-32.21	-49.77	-49.38	6.32
3187.5	V	-51.24	-13	-38.24	-61.69	-55.59	6.5

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 22					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1772.5	H	-45.21	-13	-32.21	-49.77	-49.38	6.32
3187.5	H	-51.24	-13	-38.24	-61.69	-55.59	6.5
1772.5	V	-45.69	-13	-32.69	-50.41	-49.86	6.32
3187.5	V	-52.01	-13	-39.01	-62.52	-56.36	6.5

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 23					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1772.5	H	-45.8	-13	-32.8	-50.52	-49.97	6.32
3187.5	H	-51.69	-13	-38.69	-62.2	-56.04	6.5
1772.5	V	-45.43	-13	-32.43	-49.99	-49.6	6.32
3187.5	V	-51.19	-13	-38.19	-61.64	-55.54	6.5

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 24					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1772.5	H	-45.6	-13	-32.6	-50.32	-49.77	6.32
3187.5	H	-52.81	-13	-39.81	-63.32	-57.16	6.5
1772.5	V	-45.09	-13	-32.09	-49.65	-49.26	6.32
3187.5	V	-51.07	-13	-38.07	-61.52	-55.42	6.5

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 25					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1693.2	H	-46.03	-13	-33.03	-50.36	-49.86	5.98
3266.8	H	-51.67	-13	-38.67	-62.39	-56.3	6.78
1693.2	V	-45.55	-13	-32.55	-49.87	-49.38	5.98
3266.8	V	-50.46	-13	-37.46	-61.17	-55.09	6.78

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 26					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1693.2	H	-45.98	-13	-32.98	-50.31	-49.81	5.98
3266.8	H	-51.73	-13	-38.73	-62.45	-56.36	6.78
1693.2	V	-45.45	-13	-32.45	-49.77	-49.28	5.98
3266.8	V	-50.51	-13	-37.51	-61.22	-55.14	6.78

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 27					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1693.2	H	-45.89	-13	-32.89	-50.22	-49.72	5.98
3266.8	H	-51.52	-13	-38.52	-62.24	-56.15	6.78
1693.2	V	-45.26	-13	-32.26	-49.58	-49.09	5.98
3266.8	V	-50.52	-13	-37.52	-61.23	-55.15	6.78

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 28					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1693.2	H	-45.8	-13	-32.8	-50.13	-49.63	5.98
3266.8	H	-51.59	-13	-38.59	-62.31	-56.22	6.78
1693.2	V	-45.44	-13	-32.44	-49.76	-49.27	5.98
3266.8	V	-50.39	-13	-37.39	-61.1	-55.02	6.78

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 29					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1693.2	H	-46.07	-13	-33.07	-50.4	-49.9	5.98
3266.8	H	-51.46	-13	-38.46	-62.18	-56.09	6.78
1693.2	V	-45.3	-13	-32.3	-49.62	-49.13	5.98
3266.8	V	-50.36	-13	-37.36	-61.07	-54.99	6.78

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 30					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1693.2	H	-45.66	-13	-32.66	-49.99	-49.49	5.98
3266.8	H	-51.29	-13	-38.29	-62.01	-55.92	6.78
1693.2	V	-45.5	-13	-32.5	-49.82	-49.33	5.98
3266.8	V	-50.31	-13	-37.31	-61.02	-54.94	6.78

Note: ERP = S.G Power value + Correction factor - 2.15

NB-IoT Intenal Antenna

Test mode		Mode 31					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3109.8	H	-49.38	-13	-36.38	-61.77	-55.36	5.98
4330.2	H	-47.07	-13	-34.07	-61.85	-53.85	6.78
3109.8	V	-48.64	-13	-35.64	-60.85	-54.62	5.98
4330.2	V	-45.55	-13	-32.55	-60.33	-52.33	6.78

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 32					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.2	H	-48.49	-13	-35.49	-62.85	-55.32	6.83
4360.8	H	-45	-13	-32	-59.88	-51.63	6.63
4190.2	V	-46.49	-13	-33.49	-60.8	-53.32	6.83
4360.8	V	-47	-13	-34	-61.88	-53.63	6.63

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 33					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3316.5	H	-50.38	-13	-37.38	-61.21	-55.22	6.99
4153	H	-49.65	-13	-36.65	-61.85	-54.35	6.85
3316.5	V	-49.91	-13	-36.91	-60.76	-54.75	6.99
4153	V	-48.69	-13	-35.69	-60.88	-53.39	6.85

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 34					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3187.5	H	-51.34	-13	-38.34	-61.85	-55.69	6.5
3895	H	-50	-13	-37	-62.87	-54.8	6.95
3187.5	V	-50.37	-13	-37.37	-60.82	-54.72	6.5
3895	V	-48.95	-13	-35.95	-61.81	-53.75	6.95

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 35					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3266.8	H	-51.15	-13	-38.15	-61.87	-55.78	6.78
4053.6	H	-49.74	-13	-36.74	-61.89	-54.5	6.91
3266.8	V	-50.56	-13	-37.56	-61.27	-55.19	6.78
4053.6	V	-49.03	-13	-36.03	-61.28	-53.79	6.91

Note: ERP = S.G Power value + Correction factor - 2.15

Cat-M1 External Antenna

Test mode		Mode 1					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.7	H	-48.06	-13	-35.06	-62.42	-54.89	6.83
6670.7	H	-43.25	-13	-30.25	-63.12	-48.21	4.96
4190.7	V	-46.62	-13	-33.62	-60.93	-53.45	6.83
6670.7	V	-40.25	-13	-27.25	-60.74	-45.21	4.96

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 2					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.7	H	-47.84	-13	-34.84	-62.2	-54.67	6.83
6670.7	H	-42	-13	-29	-61.87	-46.96	4.96
4190.7	V	-46.82	-13	-33.82	-61.13	-53.65	6.83
6670.7	V	-40.54	-13	-27.54	-61.03	-45.5	4.96

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 3					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4190.7	H	-47.54	-13	-34.54	-61.9	-54.37	6.83
6670.7	H	-42.66	-13	-29.66	-62.53	-47.62	4.96
4190.7	V	-46.92	-13	-33.92	-61.23	-53.75	6.83
6670.7	V	-40.66	-13	-27.66	-61.15	-45.62	4.96

Note: EIRP = S.G Power value + Correction factor

Test mode		Mode 4					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1655.75	H	-45.43	-13	-32.43	-49.57	-49.09	5.81
3304.25	H	-50.7	-13	-37.7	-61.51	-55.49	6.94
1655.75	V	-45.73	-13	-32.73	-49.95	-49.39	5.81
3304.25	V	-51.89	-13	-38.89	-62.71	-56.68	6.94

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 5					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1655.75	H	-45.69	-13	-32.69	-49.83	-49.35	5.81
3304.25	H	-51.07	-13	-38.07	-61.88	-55.86	6.94
1655.75	V	-45.19	-13	-32.19	-49.41	-48.85	5.81
3304.25	V	-51.08	-13	-38.08	-61.89	-55.87	6.94

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 6					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1655.75	H	-45.6	-13	-32.6	-49.74	-49.26	5.81
3304.25	H	-50.89	-13	-37.89	-61.7	-55.68	6.94
1655.75	V	-45.44	-13	-32.44	-49.66	-49.1	5.81
3304.25	V	-51.28	-13	-38.28	-62.1	-56.07	6.94

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 7					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1780.3	H	-48.12	-13	-35.12	-52.88	-52.32	6.35
3179.7	H	-52.08	-13	-39.08	-62.56	-56.44	6.51
1780.3	V	-47.31	-13	-34.31	-51.89	-51.51	6.35
3179.7	V	-51.48	-13	-38.48	-61.88	-55.84	6.51

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 8					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1780.3	H	-48.07	-13	-35.07	-52.83	-52.27	6.35
3179.7	H	-52.18	-13	-39.18	-62.66	-56.54	6.51
1780.3	V	-47.11	-13	-34.11	-51.69	-51.31	6.35
3179.7	V	-51.55	-13	-38.55	-61.95	-55.91	6.51

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 9					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1780.3	H	-47.87	-13	-34.87	-52.63	-52.07	6.35
3179.7	H	-52.04	-13	-39.04	-62.52	-56.4	6.51
1780.3	V	-47.24	-13	-34.24	-51.82	-51.44	6.35
3179.7	V	-50.95	-13	-37.95	-61.35	-55.31	6.51

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 10					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1698	H	-48.42	-13	-35.42	-52.77	-52.27	6.00
3262	H	-52.07	-13	-39.07	-62.77	-56.68	6.76
1698	V	-47.44	-13	-34.44	-51.78	-51.29	6.00
3262	V	-51.17	-13	-38.17	-61.86	-55.78	6.76

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 11					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1698	H	-48.03	-13	-35.03	-52.38	-51.88	6.00
3262	H	-52.02	-13	-39.02	-62.72	-56.63	6.76
1698	V	-47.36	-13	-34.36	-51.7	-51.21	6.00
3262	V	-51.16	-13	-38.16	-61.85	-55.77	6.76

Note: ERP = S.G Power value + Correction factor - 2.15

Test mode		Mode 12					
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1698	H	-48.42	-13	-35.42	-52.77	-52.27	6.00
3262	H	-52.15	-13	-39.15	-62.85	-56.76	6.76
1698	V	-47.36	-13	-34.36	-51.7	-51.21	6.00
3262	V	-51.16	-13	-38.16	-61.85	-55.77	6.76

Note: ERP = S.G Power value + Correction factor - 2.15

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

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