RF TEST REPORT



Report No.: FCC_IC_RF_SL19011001-SEV-006_BLE

Supersede Report No.:

Applicant	٠.	ChargePoint, Inc.	
Product Name	• •	Network Communication	
Model No.	• •	28010161	
Test Standard	:	47 CFR 15.247 RSS-247 Issue 2, Feb 2017	
Test Method	:	ANSI C63.10: 2013 RSS-Gen Issue 5, April 2018 558074 D01 DTS Meas Guidance v05	
FCC ID	:	W38-28010161	
IC ID	:	8854A- 28010161	
Dates of test	:	01/17/2019 – 01/30/2019	
Issue Date	• •	01/30/2019	
Test Result	:	□ Pass □ Fail	
Equipment complied with the specification [X] Equipment did not comply with the specification []			

This Test Report is Issued Under the Authority of:	
Crary Chou	a
Gary Chou	Chen Ge
Compliance Engineer	Engineer Reviewer

Issued By:
SIEMIC Laboratories
775 Montague Expressway, Milpitas, 95035 CA





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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Accreditations for comornity Assessment			
Country/Region	Accreditation Body	Scope	
USA	FCC, A2LA	EMC, RF/Wireless, Telecom	
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom	
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety	
Hong Kong	OFTA, NIST	RF/Wireless, Telecom	
Australia	NATA, NIST	EMC, RF, Telecom, Safety	
Korea KCC/RRA, NIST EMI, EMS,		EMI, EMS, RF, Telecom, Safety	
Japan	Japan VCCI, JATE, TELEC, RFT EMI, RF/Wireless, Telecon		
Mexico NOM, COFETEL, Caniety Safety, EMC, RF/Wireless, Teleco		Safety, EMC, RF/Wireless, Telecom	
Europe	A2LA, NIST	EMC, RF, Telecom, Safety	
Israel	MOC, NIST	EMC, RF, Telecom, Safety	

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB, NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & Radio Equipment Directive (RED)
Japan	MIC (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom

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Report Revision History

Report No.	Report Version	Description	Issue Date
FCC_IC_RF_SL19011001-SEV-006_BLE	None	Original	01/29/2019



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2 **Executive Summary**

The purpose of this test program was to demonstrate compliance of following product

<u>Company:</u> ChargePoint, Inc. <u>Product:</u> Network Communication

Model No.: 28010161

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

Applicant Name	ChargePoint, Inc.
Applicant Address	254 E. Hacienda Ave Campbell, CA 95148
Manufacturer Name	ChargePoint, Inc.
Manufacturer Address	254 E. Hacienda Ave Campbell, CA 95148

4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	540430
IC Test Site No.	4842D-2
VCCI Test Site No.	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

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6 **EUT Information**

6.1 EUT Description

Product Name	Network Communication
Model No.	28010161
Trade Name	ChargePoint
Serial No.	N/A
Input Power	5Vdc
Radio Hardware version	27-010077
Radio Software version	4.0.0.41
Date of EUT received	01/17/2019
Equipment Class/ Category	DTS
Port/Connectors	N/A
Remark	None

6.2 Spec for BT Radio

Radio Type	Bluetooth
Operating Frequency	2402MHz-2480MHz
Modulation	GFSK (LE)
Channel Spacing	2MHz (LE)
Antenna Type	PIFA
Antenna Gain	2.5 dBi (for 2.4GHz)

<u>6.3</u> <u>EUT test modes/configuration Description</u>

Mode	Note
Bluetooth	BLE (GFSK)

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7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	Latitude E6510	N/A	Dell	-

7.2 Cabling Description

Name	Connection Start		Connec	Connection Stop		Length / shielding Info	
From		I/O Port	То	I/O Port	Length (m)	Shielding	Note
Serial to USB	Serial	EUT	USB	Laptop	10	Unshielded	-

7.3 Test Software Description

Test Item	Software	Description
RF Testing	Putty	Set the EUT to transmit continuously in diferent test mode

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Test Summary

Test Item	-	Test standard	Test Method/Procedure		Pass / Fail
Antenna Requirement	FCC	15.203	FCC	ANSI C63.10 – 2013	□ Pass
Antenna Requirement	IC	•	IC	558074 D01 DTS Meas Guidance v05	□ N/A
Restricted Band of	FCC	15.205	FCC	ANSI C63.10:2013	⊠ Pass
Operation	IC	RSS Gen 8.10	IC	558074 D01 DTS Meas Guidance v05	□ N/A
AC Conducted Emissions	FCC	15.207(a)	FCC	ANSI C63.10:2013	⊠ Pass*
AC COHUUCIEU EIIIISSIOIIS	IC	RSS Gen 8.8	IC	RSS Gen Issue 5: 2018	□ N/A

DTS Band Requirement

Test Item	1	Test standard		Test Method/Procedure		
99% Occupied Bandwidth	-	-	-	-	⊠ Pass*	
99 % Occupied Baridwidth	IC	RSS Gen 6.6	IC	RSS Gen Issue 5: 2018	□ N/A	
6dB Bandwidth	FCC	15.247 (a)(2)	FCC	558074 D01 DTS Meas Guidance v05	⊠ Pass*	
oub bandwidth	IC	RSS247 (5.2)	IC	330074 BOT BT3 Weas Guidance vos	□ N/A	
Band Edge and Radiated	FCC	15.247(d)	FCC	ANSI C63.10:2013	⊠ Pass	
Spurious Emissions	IC	RSS247 (5.5)	IC	558074 D01 DTS Meas Guidance v05	□ N/A	
Output Power	FCC	15.247(b)	FCC	558074 D01 DTS Moss Guidance v05	⊠ Pass**	
Output i owei	IC	RSS247 (5.4)	IC	558074 D01 DTS Meas Guidance v05	□ N/A	
Receiver Spurious Emissions	IC	RSS Gen (4.8)	IC	RSS Gen Issue 5: 2018	☐ Pass ☒ N/A	
Antenna Gain > 6 dBi	FCC	15.247(e)	FCC	-	☐ Pass	
Antenna Gain > 0 dbi	IC	-	IC	-	⊠ N/A	
Power Spectral Density	FCC	15.247(e)	FCC	558074 D01 DTS Meas Guidance v05	⊠ Pass*	
Power Spectral Density	IC	RSS247 (5.2)	IC	330074 DOT DTS Weas Guidance vos	□ N/A	
DE Evaceuro requirement	FCC	15.247(i)	FCC	-	☐ Pass	
RF Exposure requirement	IC	RSS Gen (5.5)	IC	RSS Gen Issue 5: 2018	⊠ N/A	

All measurement uncertainties do not take into consideration for all presented test results.

Remark

- 2. The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.
- 3. Pass** Output power verfication
- Pass* Please refer to test report No.: FCC_RF_SL15060501-CPC-006-DTS, FCC ID: W38-28010077 , IC: 8854A-28010077



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9 Measurement Uncertainty

9.1 Conducted Emissions

The test is to measure the conducted emissions to the mains port of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the LISN
- Uncertainty of cables
- Uncertainty due to the mismatches
- Etc, see the below table for details

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Filter Insertion Loss	0.25	Normal	2	1	0.125
LISN Insertion Loss	0.40	Normal	2	1	0.20
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude	1.5	Rectangular	1.732	1	0.86605081
Response					
PRF Response	1.5	Rectangular	1.732	1	0.86605081
Mismatch LISN -	0.25	U-Shape	1.414	1	0.1768033
Receiver					
LISN Impedance	2.5	Triangular	2.449	1	1.0208248
Combined Standard Unce	1.928133				
Expanded Uncertainty ((=2)				3.856266

The total derived measurement uncertainty is +/- 3.86 dB.

9.2 Radiated Emissions (30MHz to 1GHz)

The test is to measure the radiated emissions of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- NSA Calibration
- Etc., details see the below table

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Filter Insertion Loss	0.25	Normal	2	1	0.125
Antenna Factor	0.65	Normal	2	1	0.325
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.86605081
PRF Response	1.5	Rectangular	1.732	1	0.86605081
Mismatch Filter - Receiver	0.25	U-Shape	1.414	1	0.1768033
NSA Calibration	4.0	U-Shape	1.414	1	2.8288543
Combined Standard Uncertaint	3.0059131				
Expanded Uncertainty (K=2)	6.0118262				

The total derived measurement uncertainty is +/- 6.00 dB.

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9.3 Radiated Emissions (1GHz to 40GHz)

The test is to measure the radiated emissions of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- VSWR Calibration
- Etc., details see the below table

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.0692840
Cable Insertion Loss	0.21	Normal	2	1	0.1050000
Filter Insertion Loss	0.25	Normal	2	1	0.1250000
Antenna Factor	0.65	Normal	2	1	0.3250000
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.8660508
PRF Response	1.5	Rectangular	1.732	1	0.8660508
Mismatch Filter - Receiver	0.25	U-Shape	1.414	1	0.1768033
VSWR Calibration	2.0	U-Shape	1.414	1	1.4144272
Combined Standard Uncertain	4.2363				
Expanded Uncertainty (K=2)				8.4726

The total derived measurement uncertainty is +/- 8.47 dB.

9.4 RF conducted measurement

The test is to measure the RF output power from the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the Reference Level Uncertainty
- Uncertainty of variable attenuators
- Uncertainty of cables
- Uncertainty due to the mismatches

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Reference Level	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Attenuator	0.25	Normal	2	1	0.125
Mismatch	0.25	U-Shape	1.414	1	0.1768033
Combined Standard Unce	0.476087				
Expanded Uncertainty (I	<=2)				0.952174

The total derived measurement uncertainty is +/- 0.95 dB.

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10 Measurements, Examination and Derived Results

10.1 Antenna Requirement

Spec	Requirement	Applicable
§15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. Antenna requirement must meet at least one of the following: a) Antenna must be permanently attached to the device. b) The antenna must use a unique type of connector to attach to the device. c) Device must be professionally installed. The installer shall be responsible for ensuring that the correct antenna is employed by the device.	
Remark	Antenna is permanently attached to the device.	
Result	⊠ PASS □ FAIL	





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10.2 Output Power

Requirement(s):

Spec	Item	Requirement			Applicable	
§ 15.247 RSS-247 (5.4)	1	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power.				
Test Setup		Spectrum Analyzer		EUT		
	55807	4 D01 DTS Meas Guidance v04,	9.1.1			
Test Procedure	This prise great is great (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	rement using a Spectrum Analyz rocedure shall be used when the roter than the DTS bandwidth. a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 □ RBW. c) Set span ≥ 3 □ RBW. d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize n) Use peak marker function to the specific process.	measurement instrume	nplitude level.		
Test Date	01/18/	2019	Environmental condition	Temperature Relative Humidity Atmospheric Pressure	23°C 44% 1021mbar	
Remark	NONE					
Result	⊠ Pa	ss 🗆 Fail				

 \square N/A **Test Data** oxtimes Yes (See below) **Test Plot** □ N/A

Verification test was done by Gary Chou at RF test site.

Output Power Verification measurement result

Туре	Test mode	Freq (MHz)	СН	Conducted Power (dBm)	Limit (dBm)	Result
Conducted	Bluetooth LE	2402	Low	1.87	30	Pass
Conducted	Bluetooth LE	2440	Mid	1.63	30	Pass
Conducted	Bluetooth LE	2480	High	1.22	30	Pass

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10.3 Radiated Spurious Emissions below 1GHz

Requirement(s):

Spec	Item	Requirement		Applicable
47CFR§15.247(d) RSS247 (5.5)	a)	Except higher limit as specified elsewhere i low-power radio-frequency devices shall no specified in the following table and the level exceed the level of the fundamental emission edges Frequency range (MHz)	t exceed the field strength levels of any unwanted emissions shall not	
1100211 (0.0)		30 – 88 88 – 216 216 960 Above 960	100 150 200 500	
Test Setup		Semi Anechoic Cha Radio Absorbing Material But 1 Ground Plane	n Antenna 1-4m	pectrum Analyzer
Procedure	1. 2. 3. 4.	rotation of the EUT) was chosen b. The EUT was then rotated to the	equency points obtained from the EUT changled out by rotating the EUT, changing the an ght in the following manner: (whichever gave the higher emission level) direction that gave the maximum emission adjusted to the height that gave the maximale for that frequency point.	racterisation. tenna el over a full on. num emission.
Remark		JT was scanned up to 1GHz. Both horizontal only the worst case.	and vertical polarities were investigated.	The results
	1			

Test Data \boxtimes Yes (See below) \square N/A

Test Plot ⊠ Yes (See below) □ N/A

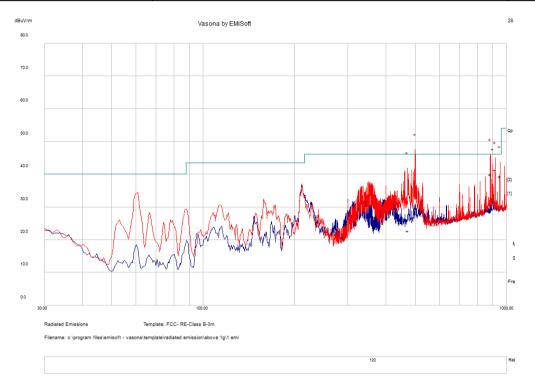
Test was done by Gary Chou at 10m chamber.



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Radiated Emission Test Results (Below 1GHz)

Test specification	Below 1GHz			
	Temp (°C):			
Environmental Conditions:	Humidity (%)	47.5		
	Atmospheric (mbar):]		
Mains Power:	120VAC, 60Hz		Result	Pass
Tested by:	Gary Chou	Gary Chou		
Test Date:	01/28/2019			
Remarks:	Bluetooth LE 2440 MHz			



Quasi Max Measurement

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
500.055938	33.86	14.17	-18.27	29.76	Quasi Max	V	122	9	46	-16.25	Pass
883.36625	37.94	15.9	-13.78	40.06	Quasi Max	V	167	186	46	-5.94	Pass
916.51	37.87	15.87	-12.36	41.37	Quasi Max	V	111	197	46	-4.63	Pass
950.075625	36.12	16.04	-12.78	39.38	Quasi Max	V	109	204	46	-6.63	Pass
899.96125	26.8	15.95	-13.29	29.46	Quasi Max	V	132	240	46	-16.54	Pass
471.436563	27.29	14.18	-18.67	22.81	Quasi Max	V	101	322	46	-23.19	Pass

Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

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10.4 Radiated Spurious Emissions between 1GHz – 25GHz

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS247(5.5)	a)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required	
		□ 20 dB down □ 30 dB down	
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	
Test Setup		Semi Anechoic Chamber Radio Absorbing Material 3m Antenna 1.4m Antenna Ground Plane	Spectrum Analyzer
Procedure	1. 2. 3. 4.	The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT char. Maximization of the emissions, was carried out by rotating the EUT, changing the ante and adjusting the antenna height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission c. Finally, the antenna height was adjusted to the height that gave the maximum An average measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency measured.	enna polarization, l over a full n. um emission.
Remark		T was scanned up to 26GHz. Both horizontal and vertical polarities were investigated. ly the worst case.	The results
Result	⊠ Pass	s □ Fail	
Test Data ⊠ Yes (S	,	□ N/A ⊠ N/A	
10011101 - 100 (00	J 5 5 5 10 VV)		

Test was done by Gary Chou at 10m Chamber.

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Radiated Emission Test Results (Above 1GHz)

BLE – 2402MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
17798.02	38.35	8.09	8.32	54.76	Peak Max	V	187	218	74	-19.24	Pass
1529.45	42.44	2.37	-6.34	38.47	Peak Max	V	250	302	74	-35.53	Pass
4804.29	41.16	4.1	-0.91	44.35	Peak Max	V	177	213	74	-29.65	Pass
17798.02	26.53	8.09	8.32	42.94	Average Max	V	187	218	54	-11.06	Pass
1529.45	30.27	2.37	-6.34	26.3	Average Max	V	250	302	54	-27.7	Pass
4804.29	27.18	4.1	-0.91	30.37	Average Max	V	177	213	54	-23.63	Pass

BLE - 2440MHz

DLL ZT	FV 1411 12										
Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
17924.46	38.42	7.94	8.67	55.03	Peak Max	Н	165	141	74	-18.97	Pass
1530.38	41.51	2.37	-6.33	37.55	Peak Max	Н	255	356	74	-36.45	Pass
4880.27	45.39	4.18	-1	48.57	Peak Max	V	267	21	74	-25.43	Pass
17924.46	26.51	7.94	8.67	43.12	Average Max	Н	165	141	54	-10.88	Pass
1530.38	28.37	2.37	-6.33	24.41	Average Max	Н	255	356	54	-29.59	Pass
4880.27	37.19	4.18	-1	40.37	Average Max	V	267	21	54	-13.63	Pass

BLE - 2480MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
12253.27	38.43	6.51	3.76	48.70	Peak Max	V	210	117	74	-25.3	Pass
4965.19	39.57	4.26	-1.08	42.75	Peak Max	V	350	261	74	-31.25	Pass
1130.36	43.62	2	-7.24	38.38	Peak Max	V	351	74	74	-35.62	Pass
12253.27	26.18	6.51	3.76	36.45	Average Max	V	210	117	54	-17.55	Pass
4965.19	26.26	4.26	-1.08	29.44	Average Max	V	350	261	54	-24.56	Pass
1130.36	31.44	2	-7.24	26.20	Average Max	V	351	74	54	-27.8	Pass

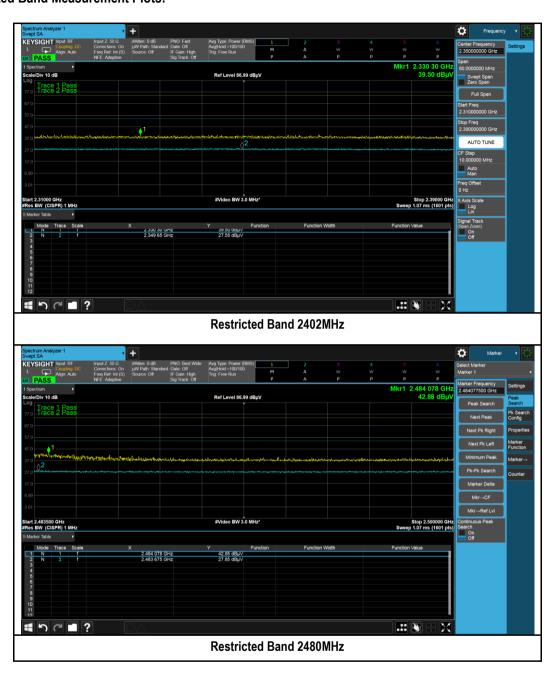
Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

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Restricted Band Measurement Plots:







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Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Radiated Emissions						
Keysight EXA 44GHz Spectrum Analyzer	N9030B(PXA)	MY57140374	07/22/2018	1 Year	07/22/2019	~
Keysight Signal Generator	MXG N5182A	MY47071065	04/12/2018	1 Year	04/12/2019	
Pre-Amplifier (1-26.5GHz)	8449B	3008A00715	05/16/2018	1 Year	05/16/2019	>
RF Pre-Amplifier (9kHz - 6.5GHz)	LPA-6-30	11170601	02/06/2018	1 Year	02/06/2019	>
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	03/09/2018	2 Year	03/09/2020	>
Horn Antenna (1GHz~26GHz)	3117	214309	11/22/2017	1 Year	11/22/2019	>





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Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark	
ISO 17025 (A2LA)	7	Please see the documents for the detailed scope	
ISO Guide 65 (A2LA)	7	Please see the documents for the detailed scope	
TCB Designation		A1, A2, A3, A4, B1, B2, B3, B4, C	
FCC DoC Accreditation	7	FCC Declaration of Conformity Accreditation	
FCC Site Registration	7	3 meter site	
FCC Site Registration	7	10 meter site	
IC Site Registration	7	3 meter site	
IC Site Registration	7	10 meter site	
EU NB		Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025	
	₽	Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025	
Singapore iDA CB(Certification Body)	包包	Phase I, Phase II	
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope	
Hong Kong OFCA	72-	(Phase II) OFCA Foreign Certification Body for Radio and Telecom	
	7	(Phase I) Conformity Assessment Body for Radio and Telecom	
Industry Canada CAB	7	Radio: Scope A – All Radio Standard Specification in Category I	
	Z	Telecom: CS-03 Part I, II, V, VI, VII, VIII	



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Japan Recognized Certification Body Designation	因因	Radio: A1. Terminal equipment for purpose of calling Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law	
		EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS	
Korea CAB Accreditation	±	Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68	
		Telecom: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4	
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08	
Taiwan BSMI CAB Recognition	7	CNS 13438	
Japan VCCI		R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement	
Australia CAB Recognition	₹ <u>a</u>	EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4	
		Radio communications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771	
		Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06 AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1	
Australia NATA Recognition	Z	AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2	