

FCC TEST REPORT

Product Name: Computador de Bordo

Trade Mark: solinftec

Model No.: MAG100R

Report Number: 180516002RFM-1

Test Standards: FCC 47 CFR Part 22 Subpart H

FCC 47 CFR Part 2

FCC ID: 2AQWE-GC170424

Test Result: PASS

Date of Issue: October 16, 2018

Prepared for:

TECSOIL AUTOMACAO E SISTEMAS S.A.
RUA ABRAHAO VINHAS, 242, SALA 1 E 2, ARACATUBA, Brazil

Prepared by:

Shenzhen UnionTrust Quality and Technology Co., Ltd. 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

> TEL: +86-755-2823 0888 FAX: +86-755-2823 0886

Tested by:

Henry Lu

Project Engineer

Reviewed by:

Kevih Liang

Assistant Manager

Approved by:

Billy Li

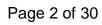
Technical Director

Date:

October 16, 2018°

UnienTrust

Shenzhen UnionTrust Quality and Technology Co., Ltd.





Version

Version No.	Date	Description
V1.0	October 16, 2018	Original





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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant: TECSOIL AUTOMACAO E SISTEMAS S.A.	
Address of Applicant:	RUA ABRAHAO VINHAS, 242, SALA 1 E 2, ARACATUBA, Brazil
Manufacturer:	TECSOIL AUTOMACAO E SISTEMAS S.A.
Address of Manufacturer:	RUA ABRAHAO VINHAS, 242, SALA 1 E 2, ARACATUBA, Brazil

1.2 EUT INFORMATION

Product Name:	Computador de Bordo
Model No.:	MAG100R
Add. Model No.:	N/A
Trade Mark:	solinftec
DUT Stage:	Identical Prototype
EUT Supports Function:	UTRA Bands: Band II/ Band IV/ Band V
Sample Received Date:	May 13, 2018
Sample Tested Date:	May 13, 2018 to September 5, 2018

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	WCDMA, HSDPA, HSUPA				
	WCDMA	BPSK			
Type of Modulation:	HSDPA:	QPSK			
	HSUPA:	QPSK			
Frequency Range:	WCDMA Band V:	826.4-846.6 MHz			
Max RF Output Power:	WCDMA Band V:	22.86 dBm			
Type of Emission:	WCDMA Band V:	4M19F9W			
Antenna Type:	External Antenna				
Antenna Gain:	6 dBi				
Normal Test Voltage:	24 Vdc				
Extreme Test Voltage:	12 to 30Vdc				
Extreme Test Temperature:	-30 °C to +50 °C				

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested independently

1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua

New District, Shenzhen, China 518109 Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886 Page 5 of 30 Report No.: 180516002RFM-1

1.6 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.10 MEASUREMENT UNCERTAINTY

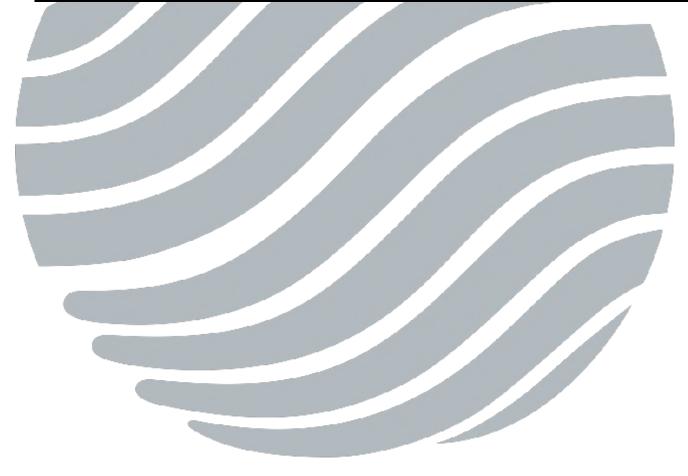
Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	ltem	Measurement Uncertainty
1	Conducted emission 9KHz-150KHz	±3.8 dB
2	Conducted emission 150KHz-30MHz	±3.4 dB
3	Radiated emission 9KHz-30MHz	±4.9 dB
4	Radiated emission 30MHz-1GHz	±4.7 dB
5	Radiated emission 1GHz-18GHz	±5.1 dB
6	Radiated emission 18GHz-26GHz	±5.2 dB
7	Radiated emission 26GHz-40GHz	±5.2 dB



2. TEST SUMMARY

FCC 47 CFR Part 22 Subpart H Test Cases					
Test Item	Test Requirement	Test Method	Result		
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS		
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS		
Peak-to-average ratio	FCC 47 CFR Part 22.913(a)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS		
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS		
Band Edge at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)				
Spurious emissions at antenna terminals			PASS		
Field strength of spurious radiation	Field strength of FCC 47 CFR Part 2.1053 &		PASS		
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 22.355	ANSI/TIA-603-E-2016 & KDB 971168 D01v03	PASS		





3. EQUIPMENT LIST

. –	Radiated Emission Test Equipment List						
	Serial Cal. date Cal. Due date						
Used	Equipment	Manufacturer	Model No.	Number	(mm dd, yyyy)	(mm dd, yyyy)	
~	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	Dec. 20, 2015	Dec. 19, 2018	
>	Receiver	R&S	ESIB26	100114	Dec. 10, 2017	Dec. 10, 2018	
>	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Dec. 17, 2017	Dec. 17, 2018	
>	Preamplifier	HP	8447F	2805A02960	Dec. 10, 2017	Dec. 10, 2018	
~	Broadband Antenna (Pre-amplifier)	ETS-LINDGREN	3142E-PA	00201891	May 19, 2018	May 19, 2019	
>	Horn Antenna	ETS-LINDGREN	3117	00164202	Dec. 17, 2017	Dec. 17, 2018	
~	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	May 22, 2018	May 22, 2019	
•	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A	
>	Universal Radio Communication Tester	R&S	CMU200	114713	Dec. 10, 2017	Dec. 10, 2018	
~	Test Software	Audix	e3	Software Version: 9.160323			

	RF Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)	
~	Receiver	R&S	ESR7	1316.3003K07 -101181-K3	Dec. 10, 2017	Dec. 10, 2018	
~	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	Dec.10, 2017	Dec. 10, 2018	
~	Universal Radio Communication Tester	R&S	CMU200	114713	Dec. 10, 2017	Dec. 10, 2018	
>	DC Source	KIKUSUI	PWR400L	LK003024	Sep. 14, 2017	Sep. 13, 2018	
V	Temp & Humidity chamber	Votisch	VT4002	58566133290 020	June 05, 2018	June 05, 2019	



4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Test Environment	Selected Values During Tests				
Test Condition	Ambient				
rest Condition	Temperature (°C)	Voltage (Vdc)	Relative Humidity (%)		
TN/VN	+15 to +35	24	20 to 75		
TL/VL	-30	12	20 to 75		
TH/VL	+50	12	20 to 75		
TL/VH	-30	30	20 to 75		
TH/VH	+50	30	20 to 75		

Remark:

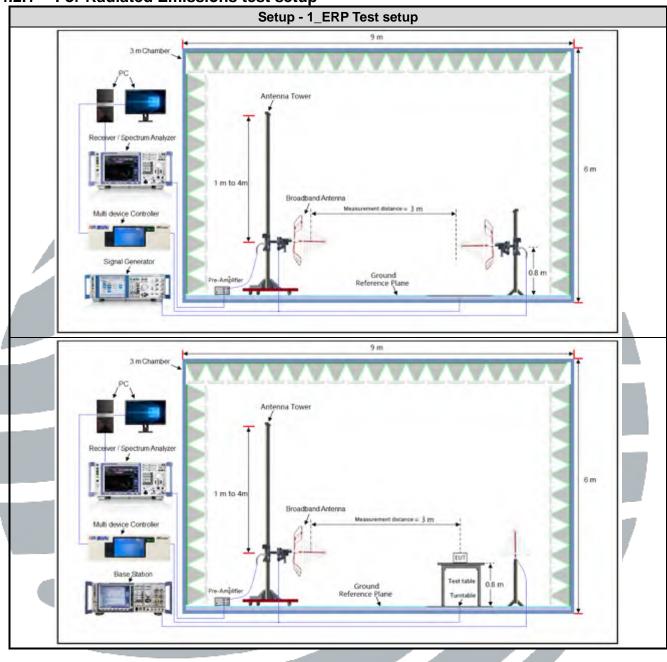
- 1) The EUT just work in such extreme temperature of -30 °C to +50 °C and the extreme voltage of 12 V to 30 V, so here the EUT is tested in the temperature of -30 °C to +50 °C and the voltage of 12 V to 30 V.
- 2) VN: Normal Voltage; TN: Normal Temperature;
 - TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
 - VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.



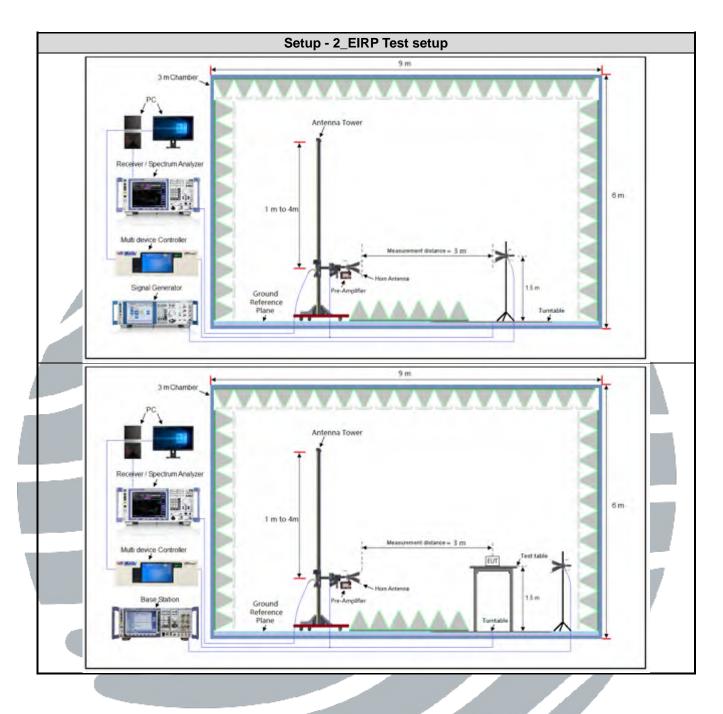


4.2TEST SETUP

4.2.1 For Radiated Emissions test setup



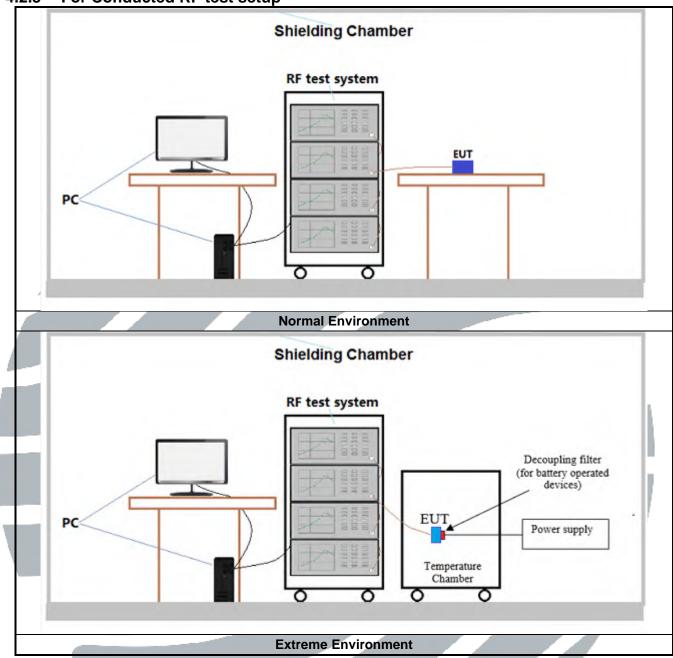






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4.2.3 For Conducted RF test setup





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4.3 TEST CHANNELS

Band	Ty/Py Fraguency	RF Channel			
Ballu	Tx/Rx Frequency	Low(L)	Middle(M)	High(H)	
WCDMA band V	Тх	Channel 4132	Channel 4182	Channel 4233	
WCDIVIA band V	(824 MHz ~ 849 MHz)	826.4 MHz	836.4 MHz	846.6 MHz	

4.4 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 24Vdc. Only the worst case data were recorded in this test report.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis, and antenna ports.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.



4.5 PRE-SCAN

Pre-scan under all rate at lowest middle and highest channel, find the transmitter power as below: SIM 1 Card Conducted transmitter power measurement result.

WCDMA Band V Maximum Average Power (dBm)					
Channel	4132	4182	4233		
Frequency(MHz)	826.4 MHz	836.4 MHz	846.6 MHz		
RMC 12.2K	22.86	22.83	22.77		
HSDPA Subtest-1	22.61	22.59	22.55		
HSDPA Subtest-2	21.38	21.36	21.34		
HSDPA Subtest-3	21.33	21.24	21.25		
HSDPA Subtest-4	21.13	21.01	21.06		
HSUPA Subtest-1	20.69	20.66	20.68		
HSUPA Subtest-2	19.54	19.53	19.51		
HSUPA Subtest-3	20.34	20.33	20.31		
HSUPA Subtest-4	19.78	19.77	19.75		
HSUPA Subtest-5	19.65	19.68	19.62		

Pre-scan all bandwidth and mode, find worse case mode are chosen to the report, the worse mode applicability and tested channel detail as below:

	Band	Radiated	Conducted
ı	WCDMA Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link



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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION 5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2 Subpart J	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 22 Subpart H	Cellular Radiotelephone Service
3	ANSI/TIA-603-E-2016	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
4	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03

5.2 OUTPUT POWER

Test Requirement: FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03

Limit:

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

Test Procedure:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA, CDMA2000, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Link mode
Test Results: Pass

Test Data:

	Maximum ERP (dBm)						
Channel	WCDMA RMC 12.2Kbps Maximum Average Conducted Power	ERP (dBm)	Limit (dBm)	Result			
Lowest	owest 22.86		38.45	Pass			
Middle 22.83		26.68	38.45	Pass			
Highest	22.77	26.62	38.45	Pass			

Note: ERP = Conducted output power + Antenna Gain (6dBi) - 2.15dB



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5.3 PEAK-TO-AVERAGE RATIO

Test Requirement: FCC 47 CFR Part 22.913(a)

Test Method: KDB 971168 D01v03

Limit: In measuring transmissions in this band using an average power technique, the peak-

to-average ratio (PAR) of the transmission may not exceed 13 dB

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

- a) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth
- b) Set the number of counts to a value that stabilizes the measured CCDF curve
- c) Record the maximum PAPR level associated with a probability of 0.1 %

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Link mode
Test Results: Pass

Test Data: See table below

	Channel	WCDMA RMC 12.2Kbps	Limit (dBm)	Result
1	Lowest	2.58	13	Pass
-	Middle	2.49	13	Pass
	Highest	2.67	13	Pass



The test plot as follows: WCDMA RMC 12.2Kbps **Lowest Channel Middle Channel Highest Channel** N/A



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5.499%&26DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 22.917(b)

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03

Limit: No Limit

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The 99% and -26dB bandwidths was also measured and recorded.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Link mode

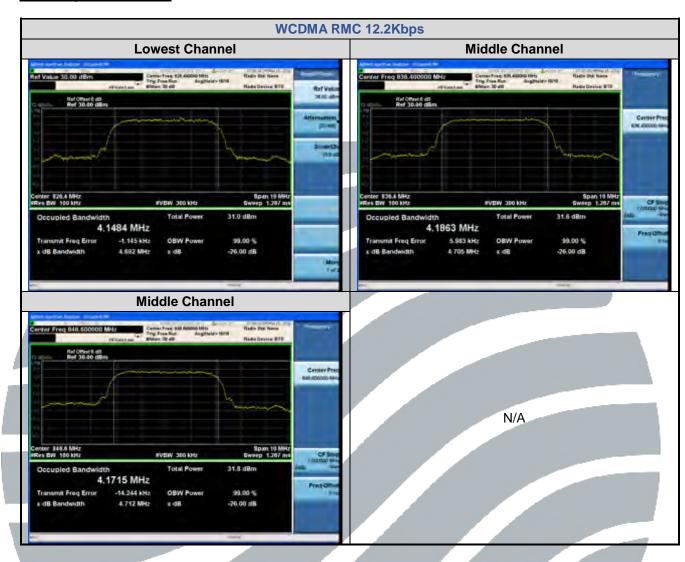
Test Results: Pass

Test Data: See table below

99% & 26 dB Bandwidth									
Test Mode	Channel	Frequency (MHz)	26 dB BW (MHz)	99% BW (MHz)					
WODWA	4132	826.4	4.692	4.1484					
WCDMA RMC 12.2Kbps	4182	836.4	4.705	4.1863					
TAIN'S TELETROPS	4233	846.6	4.712	4.1715					



The test plot as follows:





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5.5 BAND EDGE AT ANTENNA TERMINALS

Test Requirement: FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03

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. The emission limit equal to -13 dBm.

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

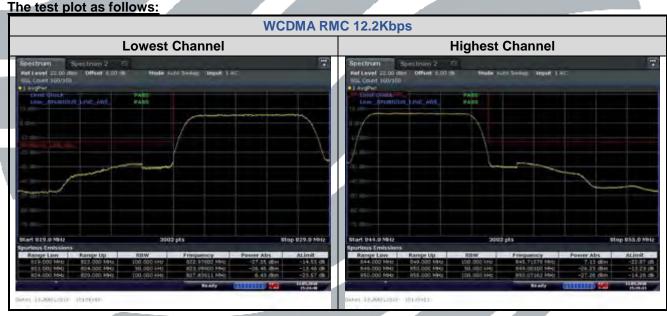
For each band edge measurement:

- Set the spectrum analyzer span to include the block edge frequency.
- Set a marker to point the corresponding band edge frequency in each test case. 2)
- Set display line at -13 dBm 3)
- Set resolution bandwidth to at least 1% of emission bandwidth. 4)
- Set spectrum analyzer with RMS detector.
- Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details. Refer to section 3 for details Instruments Used:

Test Mode: Link mode Test Results: Pass





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5.6 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)(b)

ANSI/TIA-603-E-2016 & KDB 971168 D01v03 **Test Method:**

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. The emission limit equal to -13 dBm.

Test Procedure:

The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode **Test Results:** Pass.

The test plot as follows:





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5.7 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 22.917(a)(b)

Test Method: ANSI/TIA-603-E-2016 & KDB 971168 D01v03

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009 MHz-30 MHz	Peak	10 kHz	30 KHz	Peak
30 MHz-1 GHz	Quasi-peak	100 kHz	300 KHz	Peak
Above 1 GHz	Peak	1 MHz	3 MHz	Peak

Limits:

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

Test Setup: Refer to section 4.2.1 for details.

Test Procedures:

- 1. Scan up to 10th harmonic, find the maximum radiation frequency to measure.
- 2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

- 1) The EUT was powered ON and placed on a 0.8/1.5m high table at a 3 meter semi/fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. Modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.
- 7) The output power into the substitution antenna was then measured.
- 8) Steps 6) and 7) were repeated with both antennas polarized.
- 9) Calculate power in dBm by the following formula:

ERP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd)EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi)

EIRP=ERP+2.15dB

where:

Pg is the generator output power into the substitution antenna.

- 10) Test the EUT in the lowest channel, the middle channel the Highest channel
- 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode, and found the Y axis positioning which it is worse case.
- 12) Repeat above procedures until all frequencies measured was complete.

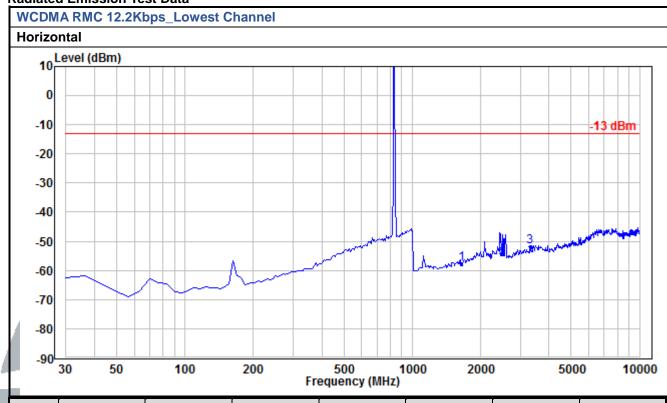
Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

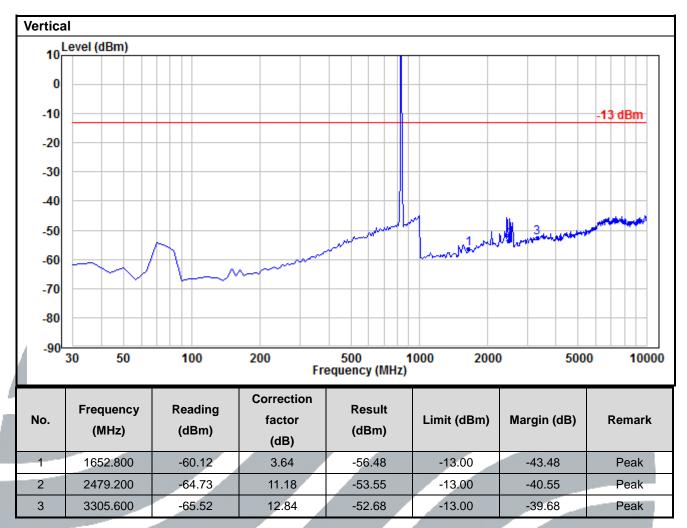


Radiated Emission Test Data

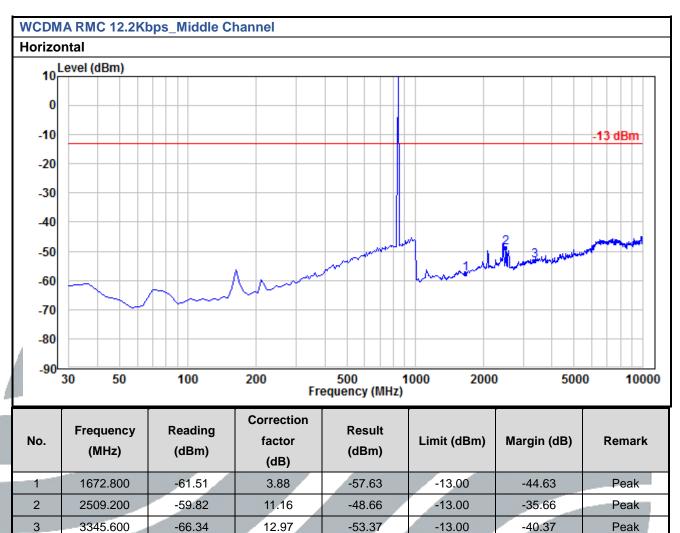


No.	Frequency (MHz)	Reading (dBm)	Correction factor (dB)	Result (dBm)	Limit (dBm)	Margin (dB)	Remark
1	1655.037	-61.24	3.67	-57.57	-13.00	-44.57	Peak
2	2479.200	-65.34	11.18	-54.16	-13.00	-41.16	Peak
3	3305.600	-64.82	12.84	-51.98	-13.00	-38.98	Peak

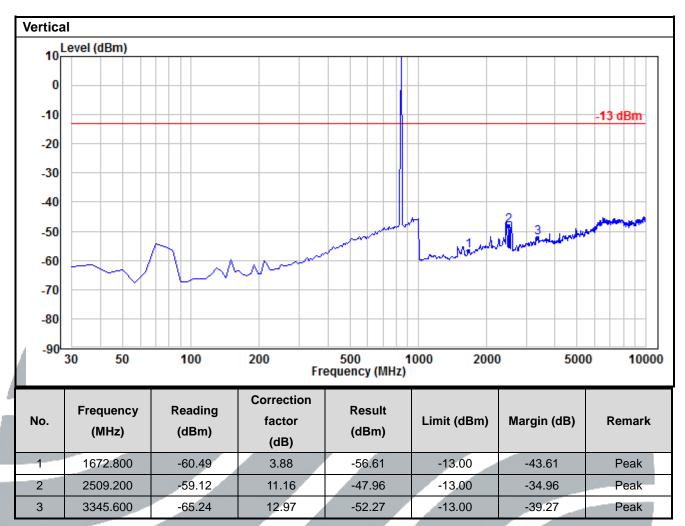




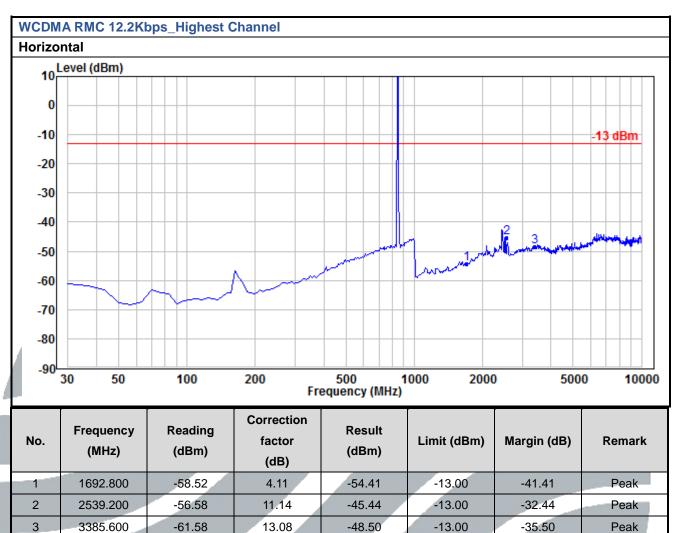




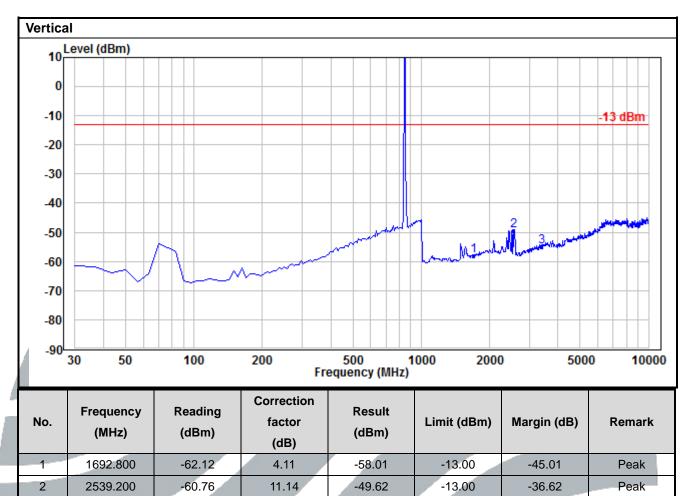












Remark:

3385.600

-68.20

-55.12

-13.00

-42.12

Peak

13.08

¹⁾ All the above radiation data, the fundamental frequency is not marked, it may exceed the limit, please ignore it



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5.8 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 22.355 **Test Method:** ANSI/TIA/EIA-603-D 2010 & KDB 971168 D01v02r02

Limits: The carrier frequency shall not depart from the reference frequency in excess of ±2.5

ppm for mobile stations.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

1) Use CMW 500 or CMU 200 with Frequency Error measurement capability.

a) Temp. = -30° to + 50° C

b) Voltage = low voltage, 12 Vdc, Normal, 24 Vdc and High voltage, 30 Vdc.

2) Frequency Stability vs Temperature:

The EUT is place inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

3) Frequency Stability vs Voltage:

The peak frequency error is recorded (worst-case).

Equipment Used: Refer to section 3 for details.

Test Result: Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
			WCDMA RM	C 12.2Kbps			
		VL		25	0.0299	± 2.5	Pass
		VN	TN	30	0.0359	± 2.5	Pass
		VH		26	0.0311	± 2.5	Pass
			50	25	0.0299	± 2.5	Pass
			40	20	0.0239	± 2.5	Pass
BPSK	4182 / 836.4	4102 / 026 4	30	21	0.0251	± 2.5	Pass
DESK	4102 / 030.4		20	21	0.0251	± 2.5	Pass
		VN	10	23	0.0275	± 2.5	Pass
			0	22	0.0263	± 2.5	Pass
			-10	27	0.0323	± 2.5	Pass
			-20	24	0.0287	± 2.5	Pass
			-30	20	0.0239	± 2.5	Pass



APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.



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APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

