

# FCC Part 22H Measurement and Test Report

#### For

# **IDspire Corporation Ltd.**

9F, No. 266, Sec. 1, Wenhua Rd., Banqiao District, New Taipei City 22041,

Taiwan (R.O.C.)

**FCC ID: 2AJFS-TPSERIES** 

FCC Rules: FCC Part 22H

Product Description: Biometric Mobile Terminal

Tested Model: TP SERIES

**Report No.:** <u>WTX19X03010911W-1</u>

Sample Receipt Date: <u>2019-03-01</u>

**Tested Date:** <u>2019-03-04 to 2019-03-25</u>

**Issued Date:** <u>2019-03-26</u>

Tested By: <u>Jason Su / Engineer</u>

Reviewed By: Silin Chen / EMC Manager

Approved & Authorized By: <u>Jandy So / PSQ Manager</u>

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#### 1. GENERAL INFORMATION

## 1.1 Product Description for Equipment Under Test (EUT)

#### **Client Information**

Applicant: IDspire Corporation Ltd.

Address of applicant: 9F, No. 266, Sec. 1, Wenhua Rd., Banqiao District, New

Taipei City 22041, Taiwan (R.O.C.)

Manufacturer: IDspire Corporation Ltd.

Address of manufacturer: 9F, No. 266, Sec. 1, Wenhua Rd., Bangiao District, New

Taipei City 22041, Taiwan (R.O.C.)

<b>General Description of EU</b>	IT:
Product Name:	Biometric Mobile Terminal
Brand Name:	/
Model No.:	TP SERIES
Adding Madal(a).	TP 1000, TP 1000-N, TP 1000-R, TP 1010, TP 1010-N,
Adding Model(s):	TP 1010-R, TPS 100, TPS 100-N, TPS 100-R
Rated Voltage:	DC3.7V
Battery:	4000mAh
Adapter Model:	/
Software Version:	TPSeries_1_201901181843
Hardware Version:	AL-MT87358-706G-V1.0_DC-25-20170904

Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model TP SERIES, but the circuit and the electronic construction do not change, declared by the manufacturer.

Technical Characteristics of EUT:				
3G				
Support Networks:	WCDMA, HSDPA, HSUPA			
Support Band:	WCDMA Band 5			
Uplink Frequency:	WCDMA Band 5: 824~849MHz			
Downlink Frequency:	WCDMA Band 5: 869~894MHz			
RF Output Power:	WCDMA Band 5: 23.11dBm			
Type of Emission:	WCDMA Band 5: 4M22F9W			
Type of Modulation:	BPSK,QPSK			
Antenna Type:	Integral Antenna			
Antenna Gain:	WCDMA Band 5: -4dBi			

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#### 1.2 Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 2:</u> FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS

FCC Rules Part 22: PRIVATE LAND MOBILE RADIO SERVICES.

<u>TIA/EIA 603 E March 2016:</u> Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

<u>ANSI C63.26-2015:</u> American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

<u>KDB 971168 D01 Power Meas License Digital Systems v03r01:</u> MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

#### 1.3 Test Methodology

All measurements contained in this report were conducted with TIA/EIA 603 E/ KDB 971168/ ANSI C63.26 The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

#### 1.4 Test Facility

#### FCC - Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

#### Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

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TEST Model: TP SERIES

# 1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List	t	
Test Mode	Description	Remark
TM1	WCDMA Band 5	Low, Middle, High Channels
TM2	HSDPA Band 5	Low, Middle, High Channels
TM3	HSUPA Band 5	Low, Middle, High Channels

Testing Configure						
Support Band	Support Standard	Channel Frequency(MHz)	Channel Number			
WCDMA Band 5		826.4	4132			
	WCDMA/HSDPA/HSUPA	836.6	4183			
		846.6	4233			

Note: the transmitter has been tested on the communications mode of WCDMA, HSDPA, HSUPA compliance test and record the worst case.

Test Conditions			
Temperature:	22~25 °C		
Relative humidity	50~55 %.		
ATM Pressure:	1019 mbar		

EUT Cable List and Details					
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite		
DC Cable	1.05	Unshielded	Without Ferrite		

Special Cable List and Details					
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite					
/	/	/	/		

Auxiliary Equipment List and Details						
Description Manufacturer Model Serial Number						
/	/	/	/			

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Model: TP SERIES

# 1.6 Measurement Uncertainty

Measurement uncertainty					
Parameter	Conditions	Uncertainty			
RF Output Power	Conducted	±0.42dB			
Occupied Bandwidth	Conducted	±1.5%			
Frequency Stability	Conducted	2.3%			
Transmitter Spurious Emissions	Conducted	±0.42dB			
		30-200MHz ±4.52dB			
Transmittor Spyrious Emissions	Radiated	0.2-1GHz ±5.56dB			
Transmitter Spurious Emissions	Kadiated	1-6GHz ±3.84dB			
		6-18GHz ±3.92dB			



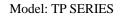
# 1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
CEMT 1075	Communication	Rohde &	CMW500	140650	2010 05 22	2010 05 21
SEMT-1075	Tester	Schwarz	CMW500	148650	2018-05-22	2019-05-21
CEMT 1062	CCM Tastan	Rohde &	CMU200	114403	2019 05 22	2010 05 21
SEMT-1063	GSM Tester	Schwarz	CMU200	114403	2018-05-22	2019-05-21
SEMT-1072	Spectrum	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
SEWIT-1072	Analyzer	Agnent	E4407B	101141440400	2010-03-22	2019-03-21
SEMT-1079	Spectrum	Agilent	N9020A	US47140102	2018-05-22	2019-05-21
SENTI 1079	Analyzer	righent	11,502011	CS 171 10102	2010 03 22	2017 03 21
SEMT-1080	Signal	Agilent	83752A	3610A01453	2018-05-22	2019-05-21
	Generator	8 1				
SEMT-1081	Vector Signal	Agilent	N5182A	MY47070202	2018-05-22	2019-05-21
	Generator					
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2018-05-22	2019-05-21
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2018-05-22	2019-05-21
SEMT-1031	Spectrum	Rohde &	FSP30	836079/035	2018-05-22	2019-05-21
	Analyzer	Schwarz				
SEMT-1007	EMI Test	Rohde &	ESVB	825471/005	2018-05-22	2019-05-21
	Receiver	Schwarz				
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2020-06-07
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2018-05-22	2019-05-21
CENTE 11.00	D 1.C.	Direction	DAD 2640	14145 14152	2010 05 22	2010 05 21
SEMT-1169	Pre-amplifier	Systems Inc.	PAP-2640	14145-14153	2018-05-22	2019-05-21
SEMT-1163	Spectrum	Rohde &	FSP40	100612	2018-05-22	2019-05-21
SEWI1-1103	Analyzer	Schwarz	r3P40	100612	2018-03-22	2019-03-21
SEMT-1170	DRG Horn	A.H.	SAS-574	571	2018-03-19	2021-03-18
SEWI1-1170	Antenna	SYSTEMS	SAS-374	3/1	2016-05-19	2021-03-16
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2018-05-22	2019-05-21
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2018-05-22	2019-05-21
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2018-05-22	2019-05-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2018-03-19	2019-03-18
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2018-03-19	2019-03-18
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2018-03-19	2019-03-18
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2018-03-19	2019-03-18



TEST Model: TP SERIES

SEMT-C005	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18





# 2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 1.1307, § 2.1093	RF Exposure	Compliant
§ 22.913 (a)	RF Output Power	Compliant
§ 24.51	Peak-to-average Ratio (PAR) of Transmitter	N/A
§ 22.917 (b)	Emission Bandwidth	Compliant
§ 22.917 (a)	Spurious Emissions at Antenna Terminal	Compliant
§ 22.917 (a)	Spurious Radiation Emissions	Compliant
§ 22.917 (a)	Out of Band Emissions	Compliant
§ 22.355	Frequency Stability	Compliant



# 3. RF Exposure

# 3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

## 3.2 Test Result

This product complied with the requirement of the RF exposure, please see the SAR report.

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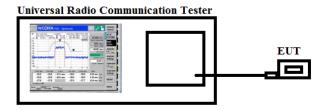
# 4. RF Output Power

## 4.1 Standard Applicable

According to §22.913(a)(2), The ERP of mobile and portable stations transmitters and auxiliary test transmitters must not exceed 7 Watts.

#### **4.2 Test Procedure**

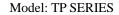
Conducted output power test method:



- Radiated power test method:
- 1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

# 4.3 Summary of Test Results/Plots

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#### > Max. Radiated Power

Mode	Channel	Antenna Polar	ERP	Limit (dBm)	Result	
	4122	V	21.62			
	4132	Н	20.05			
WCDMA Dand W	V 4183 4233	V	21.54	-20.45	D	
WCDMA Band V		Н	20.21	<38.45	Pass	
		V	21.35			
		Н	19.68			

Note: Pre-scan mode WCDMA/HSDPA/HSUPA find the worst case at WCDMA mode and recorded in the test report.

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# > Max. Conducted Power (Average power)

Conducted Average power (dBm)							
Band	V	VCDMA Band	V	,	WCDMA Band I	I	
Channel	4132	4183	4233	9262	9400	9538	
Frequency(MHz)	826.4	836.6	846.6	1852.4	1880.0	1907.6	
RMC 12.2k	23.11	22.99	23.04	/	/	/	
HSDPA Subtest-1	22.35	22.18	22.13	/	/	/	
HSDPA Subtest-2	22.31	22.14	22.11	/	/	/	
HSDPA Subtest-3	22.30	22.16	22.11	/	/	/	
HSDPA Subtest-4	22.34	22.15	22.11	/	/	/	
HSUPA Subtest-1	22.25	22.12	22.07	/	/	/	
HSUPA Subtest-2	22.22	22.08	22.05	/	/	/	
HSUPA Subtest-3	22.21	22.09	22.04	/	/	/	
HSUPA Subtest-4	22.23	22.09	22.04	/	/	/	
HSUPA Subtest-5	22.23	22.1	22.03	/	/	/	



# 5. Peak-to-average Ratio (PAR) of Transmitter

## **5.1 Standard Applicable**

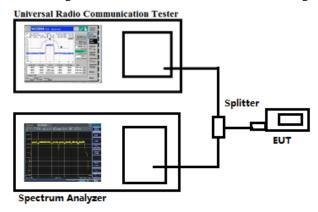
According to \$24.232(d), Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of \$24.51. 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.

#### **5.2 Test Procedure**

According with KDB 971168

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Configuration for the emission bandwidth testing:



#### **5.3 Summary of Test Results**

Not Application.



## 6. Emission Bandwidth

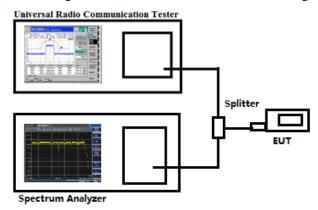
## **6.1 Standard Applicable**

According to §22.917(b), The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

#### **6.2 Test Procedure**

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 10kHz for GSM mode and 100kHz for WCDMA mode, VBW shall be at least 3 times the RBW, and the 26dB bandwidth was recorded.

Test Configuration for the emission bandwidth testing:

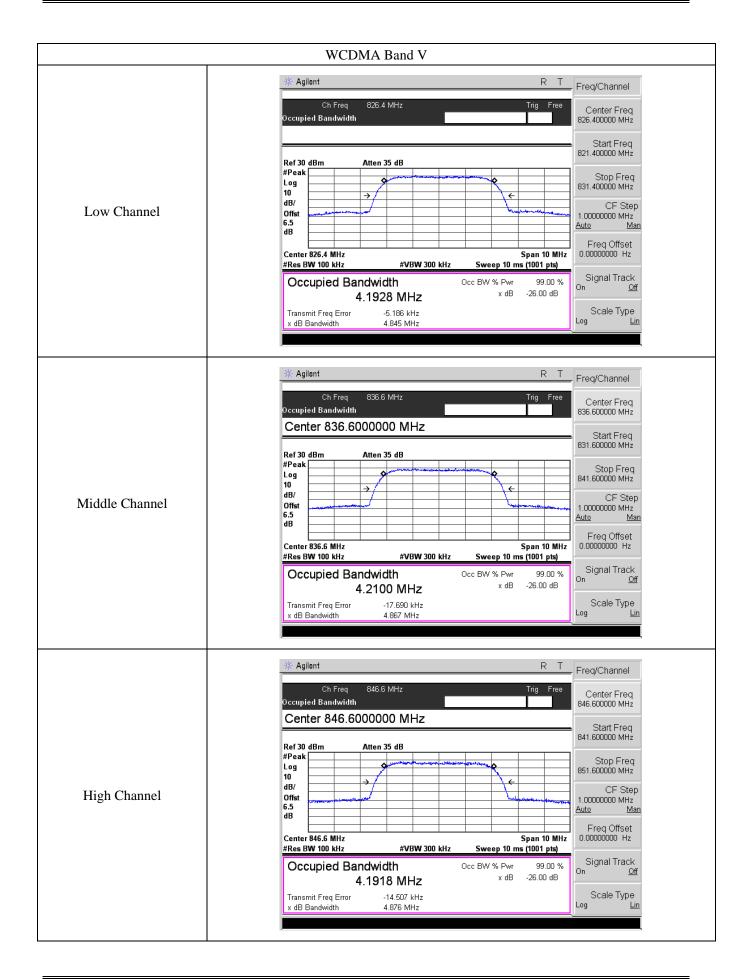


## 6.3 Summary of Test Results/Plots

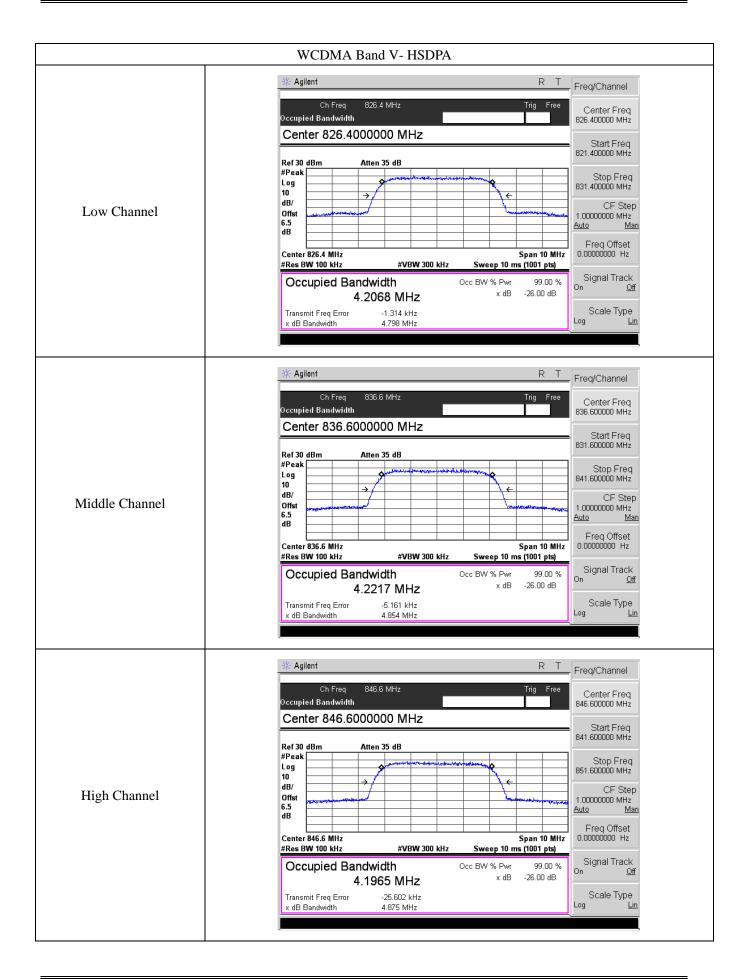


EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (kHz)	-26dB bandwidth (kHz)
	4132	826.40	4192.8	4845
WCDMA Band V	4183	836.60	4210.0	4867
	4233	846.60	4191.8	4876
	4132	826.40	4206.8	4798
HSDPA	4183	836.60	4221.7	4854
	4233	846.60	4196.5	4875
	4132	826.40	4198.6	4858
HSUPA	4183	836.60	4198.3	4861
	4233	846.60	4193.7	4848

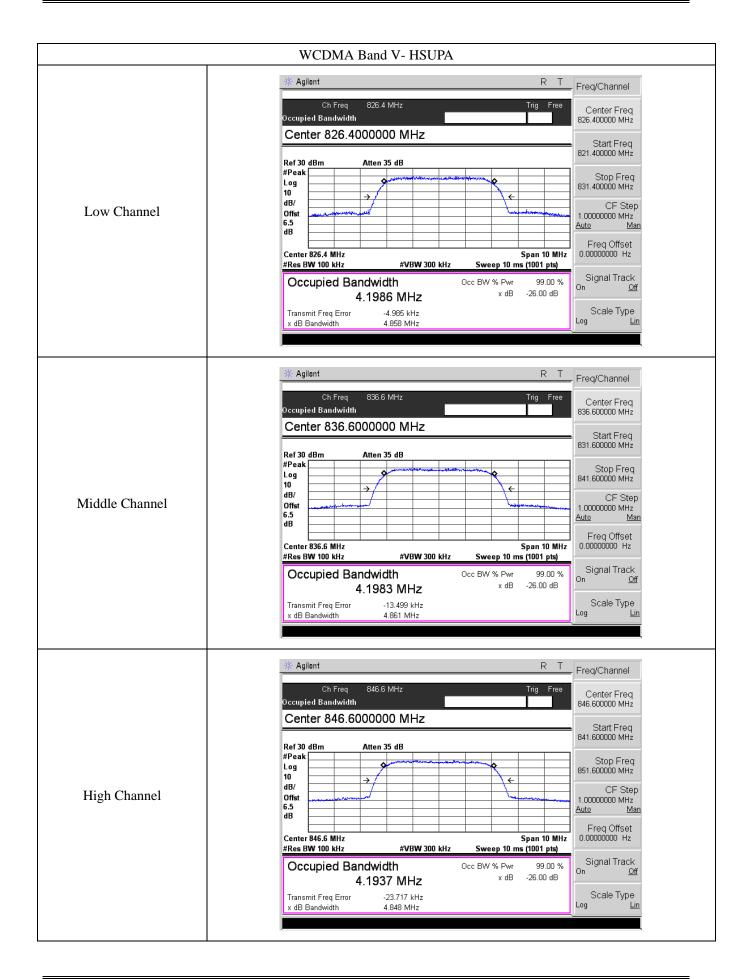














#### 7. Out of Band Emissions at Antenna Terminal

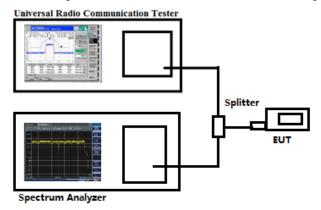
## 7.1 Standard Applicable

According to \$22.917(a), the power of any emissions 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.

#### 7.2 Test Procedure

The RF output terminal of the transmitter was connected to the input of the spectrum analyzer via a suitable attenuation. The RBW of the spectrum analyzer was set to 100kHz and 1MHz for the scan frequency from 30MHz to 1GHz and the scan frequency from 1GHz to up to  $10^{th}$  harmonic.

Test Configuration for the out of band emissions testing:

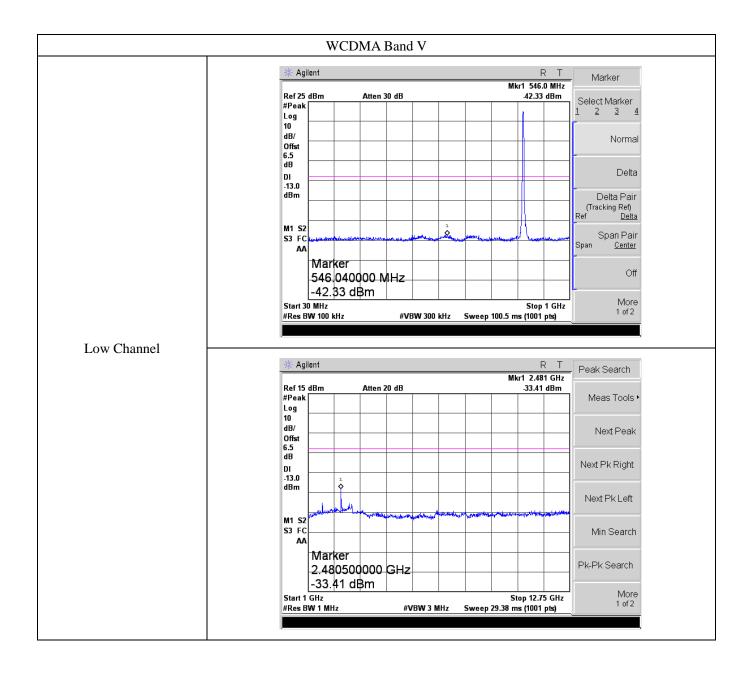


## 7.3 Summary of Test Results/Plots

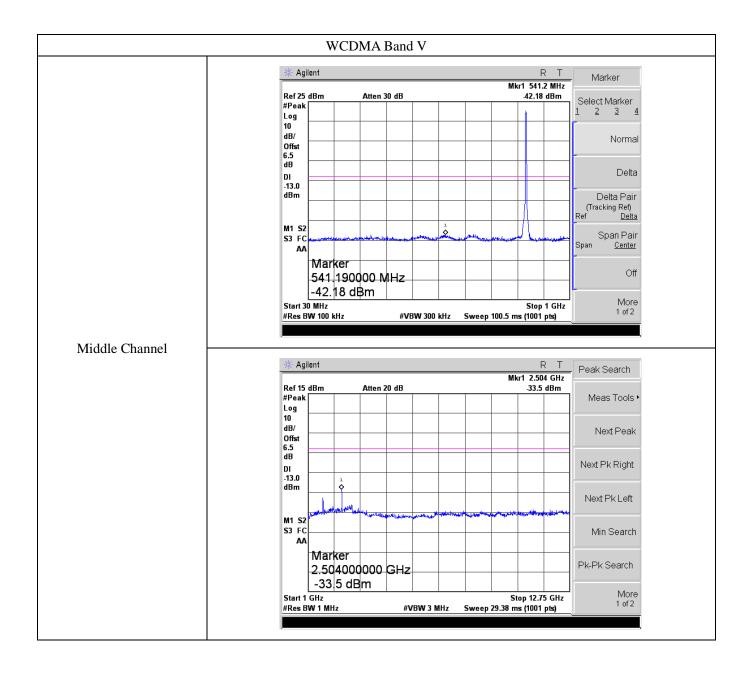
Note: Pre-scan mode WCDMA/HSDPA/HSUPA find the worst case at WCDMA mode and recorded in the test report.

Please refer to the following test plots

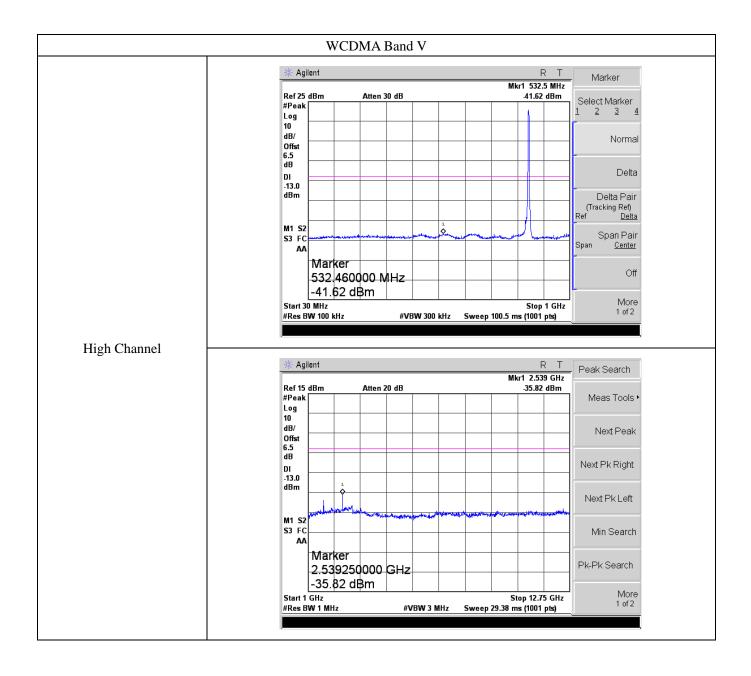




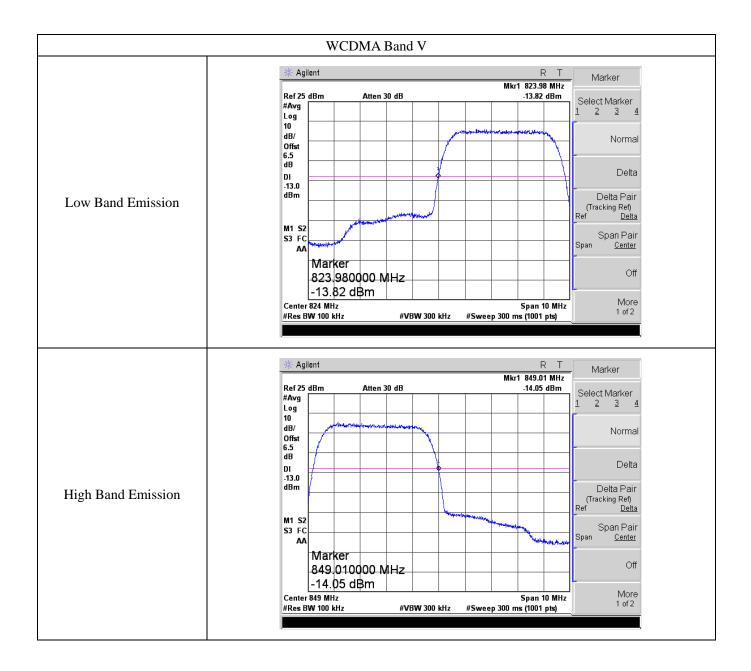














# 8. Spurious Radiated Emissions

## 8.1 Standard Applicable

According to \$22.917(a), the power of any emissions 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.

#### **8.2 Test Procedure**

- 1. The setup of EUT is according with per ANSI/TIA Standard 603E and ANSI C63.26 measurement procedure.
- 2. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.
- 3. The frequency range up to tenth harmonic of the fundamental frequency was investigated.
- 4. Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious attenuation limit in dB = $43+10 \text{ Log}_{10}$  (power out in Watts)

## 8.3 Summary of Test Results/Plots

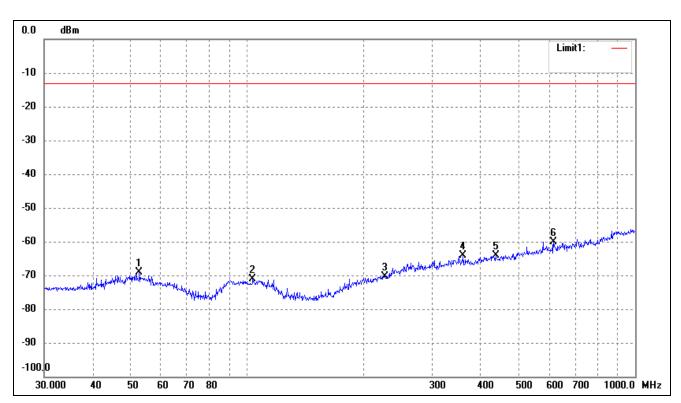
Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

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# > Spurious Emissions Below 1GHz

Test Channel band 5	Polarity:	Horizontal
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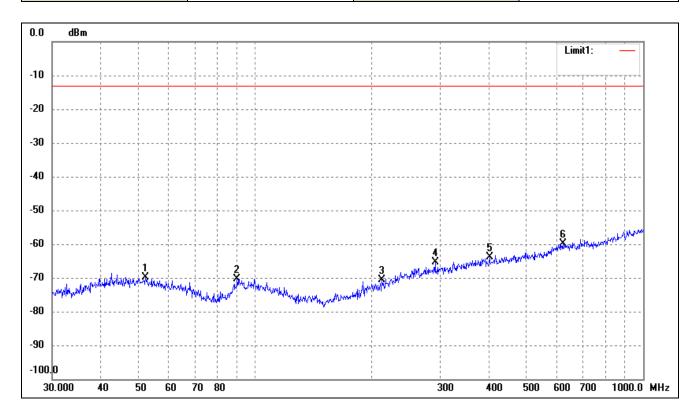
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	( )	(cm)	
1	52.7599	-69.15	0.11	-69.04	-13.00	-56.04	57	100	peak
2	103.4420	-69.53	-1.71	-71.24	-13.00	-58.24	239	100	peak
3	226.8935	-70.64	0.28	-70.36	-13.00	-57.36	73	100	peak
4	360.4476	-68.79	4.64	-64.15	-13.00	-51.15	191	100	peak
5	437.1198	-69.78	5.72	-64.06	-13.00	-51.06	105	100	peak
6	616.3718	-68.81	8.68	-60.13	-13.00	-47.13	319	100	peak

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Model: TP SERIES

Test Channel band 5	Polarity:	Vertical
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No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	( )	(cm)	
1	52.2079	-69.96	0.18	-69.78	-13.00	-56.78	320	100	peak
2	89.9047	-68.81	-1.67	-70.48	-13.00	-57.48	93	100	peak
3	212.2694	-69.41	-1.16	-70.57	-13.00	-57.57	317	100	peak
4	291.0360	-68.76	3.36	-65.40	-13.00	-52.40	120	100	peak
5	401.8385	-69.08	5.11	-63.97	-13.00	-50.97	243	100	peak
6	620.7096	-68.56	8.76	-59.80	-13.00	-46.80	237	100	peak

Note: Margin= (Reading+ Correct)- Limit



# > Spurious Emissions Above 1GHz

#### > For WCDMA Band V Mode

Frequency	Reading	Correct	Result	Limit	Margin	Polar
(MHz)	(dBm)	dB	(dBm)	(dBm)	(dB)	H/V
		Low	Channel (826.4N	ИНz)		
1652.8	-34.86	4.94	-29.92	-13	-16.92	Н
2479.2	-42.45	8.46	-33.99	-13	-20.99	Н
1652.8	-35.41	4.94	-30.47	-13	-17.47	V
2479.2	-44.89	8.46	-36.43	-13	-23.43	V
		Middl	e Channel (836.6	MHz)		
1672.8	-34.76	5.11	-29.65	-13	-16.65	Н
2509.2	-44.02	8.54	-35.48	-13	-22.48	Н
1672.8	-34.6	5.11	-29.49	-13	-16.49	V
2509.2	-42.95	8.54	-34.41	-13	-21.41	V
		High	Channel (846.6N	MHz)		
1693.2	-34.79	5.25	-29.54	-13	-16.54	Н
2539.8	-41.85	8.57	-33.28	-13	-20.28	Н
1693.2	-34.96	5.25	-29.71	-13	-16.71	V
2539.8	-42.84	8.57	-34.27	-13	-21.27	V

Note: Result=Reading+ Correct, Margin= Result- Limit

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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# 9. Frequency Stability

## 9.1 Standard Applicable

According to §22.355, §24.235 the limit is 2.5ppm.

#### 9.2 Test Procedure

According to §2.1055, the following test procedure was performed.

The Frequency Stability is measured directly with a Frequency Domain Analyzer. Frequency Deviation in ppm is calculated from the measured peak to peak value.

The Carrier Frequency Stability over Power Supply Voltage and over Temperature is measured with a Frequency Domain Analyzer in histogram mode

## 9.3 Summary of Test Results/Plots

Note: 1. Worst case at WCDMA B5 middle channel

2. Normal Voltage NV=DC3.7V; Low Voltage LV=DC3.5V; High Voltage HV=DC4.2V

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# > Frequency stability V.S. Temperature measurement

Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz							
Dower supplied (V/de)	Tomporoturo (90)	Frequen	cy error	T: 1/	Result		
Power supplied (Vdc)	Temperature ( $^{\circ}$ C)	Hz	ppm	Limit (ppm)	Result		
	-30	72	0.0864				
	-20	58	0.0690		Pass		
	-10	52	0.0616				
	0	47	0.0561				
NV	10	41	0.0487	2.50			
	20	34	0.0405				
	30	42	0.0497				
	40	48	0.0579				
	50	53	0.0634				

## > Frequency stability V.S. Voltage measurement

Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz							
Tomporatura (90)	Power supplied	Frequen	cy error	Limit	(ppm)		
Temperature ( $^{\circ}$ C)	(Vdc)	Hz	ppm	Result			
	HV	54	0.0644				
25	NV	41	0.0487	2.50	Pass		
	LV	35	0.0414				

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#### 10. Modulation characteristics

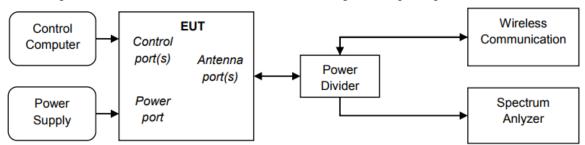
## 10.1 Standard Applicable

According to §2.1047, Measurements required: Modulation characteristics is given below:

- (a) Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted. For equipment required to have an audio low-pass filter, a curve showing the frequency response of the filter, or of all circuitry installed between the modulation limiter and the modulated stage shall be submitted.
- (b) Equipment which employs modulation limiting. A curve or family of curves showing the percentage of modulation versus the modulation input voltage shall be supplied. The information submitted shall be sufficient to show modulation limiting capability throughout the range of modulating frequencies and input modulating signal levels employed.
- (c) Single sideband and independent sideband radiotelephone transmitters which employ a device or circuit to limit peak envelope power. A curve showing the peak envelope power output versus the modulation input voltage shall be supplied. The modulating signals shall be the same in frequency as specified in paragraph (c) of §2.1049 for the occupied bandwidth tests.
- (d) Other types of equipment. A curve or equivalent data which shows that the equipment will meet the modulation requirements of the rules under which the equipment is to be licensed.

#### 10.2 Test Procedure

According to ANSI C63.26-2015 section 5.3.2, the following test setup was performed.

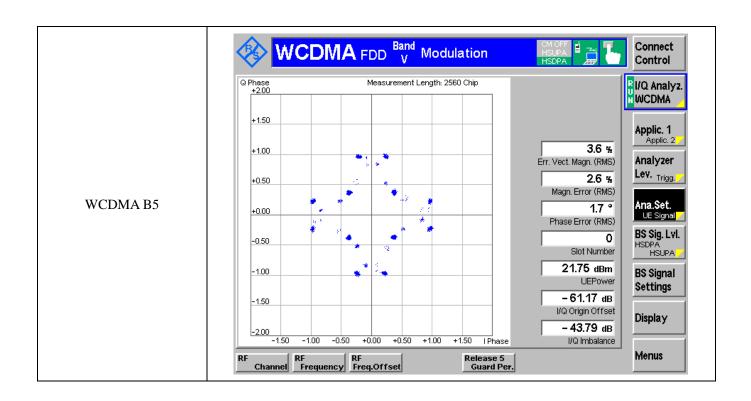


#### 10.3 Summary of Test Results/Plots

Only the worst case was selected to record

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\*\*\*\*\* END OF REPORT \*\*\*\*\*