



FCC Radio Test Report FCC ID: QISBG2-U03

This report concerns (check one):	⊠Original Grant	☐Class II	Change
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Project No. : 1707C204

Equipment: HUAWEI MediaPad T3 7

Model Name : BG2-U03

Applicant: Huawei Technologies Co.,Ltd.

Address : Administration Building, Headquarters of Huawei

Technologies Co., Ltd., Bantian, Longgang District

Shenzhen China

Date of Receipt : Jul. 24, 2017

Date of Test : Jul. 24, 2017 ~ Aug. 09, 2017

Issued Date : Aug. 10, 2017
Tested by : BTL Inc.

Technical Engineer

(Paul Li)

Authorized Signatory

(Steven Lu)

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REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-4-1707C204	Original Issue.	Aug. 10, 2017

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1. CERTIFICATION

Equipment: HUAWEI MediaPad T3 7

Brand Name : HUAWEI Model Name : BG2-U03

Applicant : Huawei Technologies Co.,Ltd. Manufacturer : Huawei Technologies Co.,Ltd.

Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District Shenzhen China

Date of Test : Jul. 24, 2017 ~ Aug. 09, 2017

Test Sample: Engineering Sample

Standard(s) : 47 CFR FCC Part 22 Subpart H

47 CFR FCC Part 2 ANSI/TIA-603-D-2010

KDB 971168 D01 Power Meas License Digital Systems v02r02

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-4-1707C204) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the GSM850, WCDMA Band 5 part.





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

FCC Part 22 Subpart H& Part 2				
Standard(s) Section	Standard(s) Section Test Item			
2.1046 22.913(a)	Radiated power	PASS	Paul Li	
2.1046 22.913(a)	Conducted Output Power	PASS	Paul Li	
2.1049(h) 22.917(a)	Occupied Bandwidth	PASS	Paul Li	
2.1051 22.917(a)	Conducted Spurious Emissions	PASS	Paul Li	
2.1053 22.917(a)	Radiated Spurious Emissions	PASS	Paul Li	
22.917(a)	Band Edge Measurements	PASS	Paul Li	
-	Peak To Average Ratio	PASS	Paul Li	
2.1055 22.355	Frequency Stability	PASS	Paul Li	

NOTE:

(1)" N/A" denotes test is not applicable to this device.





2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on astandard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95%.

A. Radiated Measurement:

Test Site	Method	Measurement Frequency Range		U,(dB)
DG-CB03 (3m) CISPR	9KHz ~ 30MHz	V	3.79	
	9KHz ~ 30MHz	Н	3.57	
	CISPR	30MHz ~ 200MHz	V	3.82
		30MHz ~ 200MHz	Н	3.78
		200MHz ~ 1,000MHz	V	4.10
		200MHz ~ 1,000MHz	Н	4.06

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03	CISPR	1GHz ~ 18GHz	V	3.12
(3m)	CISPR	1GHz ~ 18GHz	Н	3.68

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB03	CISPR	18GHz ~ 40GHz	V	4.15
(1m)	CIOPK	18GHz ~ 40GHz	Н	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	HUAWEI MediaPad T3 7					
Brand Name	HUAWEI	HUAWEI				
Model Name	BG2-U03					
Model Difference	N/A					
	GSM/GPRS		GMSK			
Modulation Type	EDGE		Downlink: 8PSK			
, , , , , , , , , , , , , , , , , , ,	WCDMA(HS	DPA/HSUPA)	Uplink: QPSK Downlink: QPSK/	/16QAM/64	QAM	
Operation Frequency	GSM /EDGE	/GPRS	824.2 ~ 848.8 MH	Ηz		
Operation Frequency	WCDMA Bai	nd 5	826.4 ~ 846.6 MH	l z		
	GSM/GPRS		GMSK	30.54	dBm	
Max. ERP Power	WCDMA		BPSK	20.50	dBm	
Wax. Litt 1 Ower	WCDMA_HSDPA		16QAM	20.24	dBm	
	WCDMA_HSUPA		16QAM	17.95	dBm	
Antenna Type	Fixed Internal Antenna					
Antenna Gain	-0.36					
Hardware Version	Bg2-3G V1.0)				
Softwarre Version	BG2-U03C3	31B015				
IMEI No.	Radiated	8655 4203 0014 59	6			
IIVIEI INO.	Conducted	eted 8655 4203 0014 505				
Power Source	#1 DC voltage supplied from AC/DC adapter. #2 Supplied from battery. #3 Supplied from USB port.					
Power Rating	#1 Input: 100-240V~50/60Hz 0.2A Output: 5V== 1A #2 DC 3.7V #3 EUT I/P: DC 5V					

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Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. The EUT contains following accessory devices.

Item	Mfr/Brand	Model.
	HUIZHOU BYD ELECTRONIC CO.,LTD	
Adapter	SHENZHEN HUNTKEY ELECTRIC CO.,LTD	HW-050100U01
	DONGGUAN PHITEK ELECTRONICS CO.,LTD	
	HONGLIN TECHNOLOGY CO.,LTD	130-26654
USB Cable	FOXCONN INTERCONNECT TECHNOLOGY LIMITED	CUBB01M-HC208-DH
	Luxshare Precision Industry Co., Ltd	L99U2013-CS-H
	Harbin Coslight Power Co., Ltd	HB3G1
Battery	SCUD (FUJIAN) Electronics Co., Ltd	HB3G1
	Sunwoda Electronic Co., LTD	HB4269B6EAW

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3.2 DESCRIPTION OF TEST MODES AND TEST CONDITION

Following channel(s) was (were) selected for the final test as listed below:

GSM MODE					
Test Item	Available Channel	Tested Channel	Mode		
ERP	128 to 251	128, 190, 251	GSM, EDGE		
Conducted Output Power	128 to 251	128, 190, 251	GSM, EDGE		
Occupied Bandwidth	128 to 251	128, 190, 251	GSM, EDGE		
Condcudeted Emission	128 to 251	190	GSM, EDGE		
Radiated Emission	128 to 251	251	GSM, EDGE		
Band Edge	128 to 251	128, 251	GSM, EDGE		
Peak to Average Ratio	128 to 251	128, 190, 251	GSM, EDGE		
Frequency Stability	128 to 251	190	GSM, EDGE		

WCDMA MODE					
Test Item	Available Channel	Tested Channel	Mode		
ERP	4132 to 4233	4132, 4182, 4233	WCDMA, HSDPA, HSUPA		
Conducted Output Power	4132 to 4233	4132, 4182, 4233	WCDMA, HSDPA, HSUPA		
Condcudeted Emission	4132 to 4233	4182	WCDMA, HSDPA, HSUPA		
Radiated Emission	4132 to 4233	4182	WCDMA, HSDPA, HSUPA		
Band Edge	4132 to 4233	4132, 4233	WCDMA, HSDPA, HSUPA		
Peak to Average Ratio	4132 to 4233	4132, 4182, 4233	WCDMA, HSDPA, HSUPA		
Frequency Stability	4132 to 4233	4182	WCDMA, HSDPA, HSUPA		

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in **QPSK** modulation.

2. For 18G to 26.5G, the hightest bandwidth is worst case and recording in the test report.

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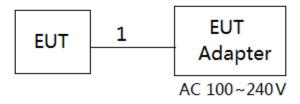




EUT TEST CONDITIONS:

Test Item	Environmental Conditions	Test Voltage
ERP	25°C, 60%RH	DC 3.7V
Conducted Output Power	25°C, 65%RH	DC 3.7V
Occupied Bandwidth	25°C, 65%RH	DC 3.7V
Conducted Emission	25°C, 65%RH	DC 3.7V
Radiated Emission	25°C, 60%RH	AC 120V/60Hz
Band Edge	25°C, 65%RH	DC 3.7V
Peak to Average Ratio	25°C, 65%RH	DC 3.7V
Frequency Stability	25°C, 65%RH	DC 3.7V

3.3 BLOCKDIGRAMSHOWINGTHECONFIGURATIONOFSYSTEMTESTED FOR RADIATED



3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.2m	USB Cable

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4. TEST RESULT

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMIT

Mobile / Portable station are limited to 7 watts e.r.p.

4.1.2 TEST PROCEDURE

EIRP/ERP:

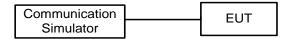
1. EIRP= Conducted Power +Antenan gain ERP power=EIPR power-2.15dBi.

Conducted Power:

The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA 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.

4.1.3 TESTSETUP LAYOUT

Conducted Power Measurement



4.1.4 TEST DEVIATION

No deviation

4.1.5 TEST RESULTS

Please refer to the Appendix A.



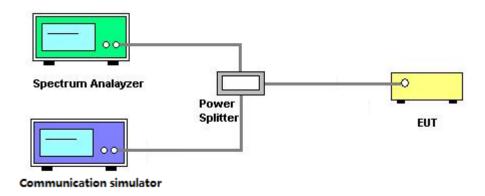


4.2 OCCUPIED BANDWIDTH MEASUREMENT

4.2.1 TEST PROCEDURE

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth and 26dB bandwidth.

4.2.2 TEST SETUP LAYOUT



4.2.3 TEST DEVIATION

No deviation

4.2.4 TEST RESULTS

Please refer to the Appendix B.





4.3 CONDUCTED EMISSIONS MEASUREMENT

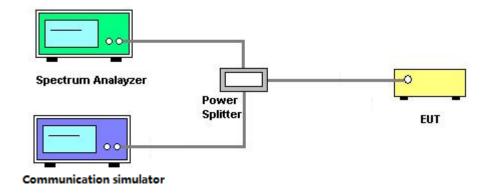
4.3.1 LIMIT

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. The emission limit equal to -13dBm.

4.3.2 TEST PROCEDURES

- 1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
- 2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
- 3. The band edges of low and high channels for the highest RF powers were measured. Set RBW>=1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
- 4. Set spectrum analyzer with RMS detector.
- 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
- 6. The limit line is derived from 43+10log(P)dB below the transmitter power P(Watts)
 - =P(W)-[43+10log(P)](dB)
 - =[30+10log(P)](dBm)-[43+10log(P)](dB)
 - =-13dBm

4.3.3 TESTSETUP LAYOUT



4.3.4 TESTDEVIATION

No deviation

4.3.5 TEST RESULTS

Please refer to the Appendix C.





4.4 RADIATED EMISSIONS MEASUREMENT

4.4.1 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. The emission limit equal to -13dBm.

4.4.2 TEST PROCEDURES

- 1. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- 2. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- 3. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- 4. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power 2.15dBi.
- 5. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.4.3 TESTSETUP LAYOUT

This test setup layout is the same as that shown in **section 4.1.3.**

4.4.4 TESTDEVIATION

No deviation

4.4.5 TEST RESULTS

Please refer to the Appendix D.





4.5 BAND EDGE MEASUREMENT

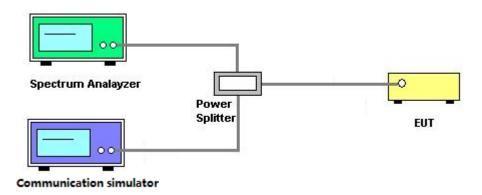
4.5.1 LIMIT

A 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. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.5.2 TEST PROCEDURES

- 1. All measurements were done at low and high operational frequency range.
- 2. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM/GPRS/EDGE).
- 3. The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA).
- 4. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (LTE Bandwidth 1.4MHz).
- 5. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 30kHz and VB of the spectrum is 100kHz (LTE Bandwidth 3MHz).
- 6. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (LTE Bandwidth 5MHz/10MHz).
- 7. Record the max trace plot into the test report.

4.5.3 TESTSETUP LAYOUT



4.5.4 TESTDEVIATION

No deviation

4.5.5 TEST RESULTS

Please refer to the Appendix E.

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4.6 PEAK TO AVERAGE RATIO MEASUREMENT

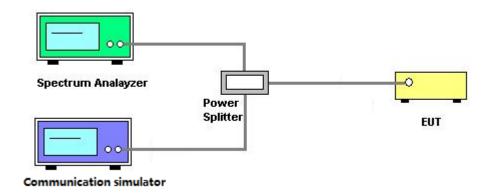
4.6.1 LIMIT

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.

4.6.2 TEST PROCEDURES

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

4.6.3 TESTSETUP LAYOUT



4.6.4 TESTDEVIATION

No deviation

4.6.5 TEST RESULTS

Please refer to the Appendix F.





4.7 FREQUENCY STABILITY MEASUREMENT

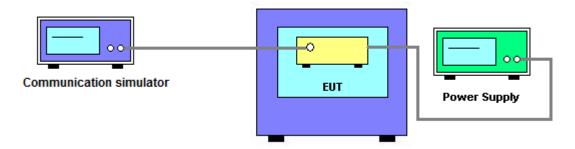
4.7.1 LIMIT

1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.7.2 TEST PROCEDURES

- 1. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- 2. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- 3. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.
- 4. The frequency error was recorded frequency error from the communication simulator.

4.7.3 TESTSETUP LAYOUT



4.7.4 TESTDEVIATION

No deviation

4.7.5 TEST RESULTS

Please refer to the Appendix G.





5. LIST OF MEASUREMENT EQUIPMENTS

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018		
2	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 26, 2018		
3	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Apr. 22, 2018		
4	Amplifier	Agilent 8449B		3008A02274	Mar. 09, 2018		
5	Amplifier	HP	8447D	2944A09673	Oct. 20, 2017		
6	HighPass Filter	Wairrwright Instruments Gmbh	WHK 1.5/15G-10ST	11	Mar. 09, 2018		
7	Band Reject Filter	Wairrwright Instruments Gmbh	WRCG 1710/1785-1690/180 5-60/12SS	38	Feb. 22, 2018		
8	Band Reject Filter	Wairrwright Instruments Gmbh	WRCG 824/849-810/863-60/ 9SS	7	Feb. 22, 2018		
9	Band Reject Filter	Wairrwright Instruments Gmbh	WRCG 880/915-860/935-60/ 9SS	14	Feb. 22, 2018		
10	Band Reject Filter	Wairrwright Instruments Gmbh	WRCG 1850/1910-1830/193 0-60/10SS	17	Feb. 22, 2018		
11	HighPass Filter	Wairrwright Instruments Gmbh	WHK3.1/18G-10SS	24	Mar. 09, 2018		
12	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Mar. 26, 2018		
13	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018		
14	Receiver	Agilent	N9038A	MY52130039	Sep. 04, 2017		
15	wideband radio communication tester	R&S	CMW500	152372	Mar. 26, 2018		
16	High pass filter	ZHPF-M1000-4000 -1	ZHPF-M3-12.75G-38 69	B201507376 3	Aug. 03, 2018		
17	High pass filter	ZHPF-M3-12.75G- 3869	ZHPF-M1000-4000- 1	B201507376 2	Aug. 03, 2018		
18	High pass filter	ZHPF-M6-18G-172 7	ZHPF-M6-186-1727	B201507376 4	Aug. 03, 2018		
19	Cable	emci	LMR-400(30MHz-1G Hz)(8m+5m)	N/A	Jun. 26, 2018		
20	Cable	emci	EMC104-SM-SM-12 000(12m)	N/A	Jul. 05, 2018		
21	Controller	ETS-Lindgren	2090	N/A	N/A		
22	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		





	Conducted Emission & Band Edge & Occupied Bandwidth Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Mar. 26, 2018		
2	EXA Spectrum Analyzer	Agilent	N9010A	MY50520044	Mar. 26, 2018		
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Feb. 25, 2018		
4	wideband radio communication tester	R&S	CMW500	152372	Mar. 28, 2018		
5	Cable	N/A	RG316(0.3m)	N/A	Jul. 05, 2018		
6	Cable	N/A	RG316(0.3m)	N/A	Jul. 05, 2018		

	Frequency Stability Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Wireless Communication Test SET	Agilent	E5515C	MY48364183	Mar. 26, 2018		
2	DC power supply	GW Instek	GPC-3030DN	EK880675	Oct. 13, 2017		
3	POWER SPLITTER	Mini-Circuits	ZFRSC-123-S+	331000910-1	Feb. 25, 2018		
4	wideband radio communication tester	R&S	CMW500	152372	Mar. 26, 2018		
5	Const Temp,& Humidity Chamber	Giant?Force	ITH-225-20-S	IAB0309-001	Sep. 04, 2017		
6	Cable	N/A	RG316(0.3m)	N/A	Jul. 05, 2018		

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

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JCL		50
	APPENDIX A - OUTPUT POWER	

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Conducted Power:

0011070		Burst Conducted Power (dBm)		
GSM850 (Capsensor C	Off)	128CH	190CH	251CH
(0.000000000000000000000000000000000000	,	824.2MHz	836.6MHz	848.8MHz
GSM (CS)		32.96	33.00	33.05
	1 Tx Slot	32.96	33.00	33.05
GPRS/EDGE	2 Tx Slot	32.96	33.00	33.05
(GMSK)	3 Tx Slot	30.99	31.03	31.00
	4 Tx Slot	29.21	29.24	29.26

	Band	WCDMA V(Capsensor Off)		ff)
Modulation	Tx Channel	4132CH	4182CH	4233CH
	Rx Channel	4357CH	4407CH	4458CH
	Frequency	826.4MHz	836.4MHz	846.6MHz
	RMC 12.2K	22.97	22.94	22.91
BPSK	RMC 64K	22.95	22.92	22.90
DEOK	RMC 144K	22.96	22.96	22.92
	RMC 384K	23.01	22.99	22.90
	HSDPA Subtest-1	22.61	22.75	22.63
16QAM	HSDPA Subtest-2	22.60	22.72	22.67
IOQAIVI	HSDPA Subtest-3	22.57	22.66	22.68
	HSDPA Subtest-4	22.60	22.73	22.68
	HSUPA Subtest-1	20.42	20.46	20.45
	HSUPA Subtest-2	18.63	18.67	18.62
16QAM	HSUPA Subtest-3	19.86	19.91	19.87
	HSUPA Subtest-4	19.41	19.43	19.39
	HSUPA Subtest-5	20.38	20.41	20.32

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ERP Power:

0011070		ERP Power (dBm)		
	1850 nsor Off)	128CH	190CH	251CH
(Gapoo.	1001 011)	824.2MHz	836.6MHz	848.8MHz
GSM (CS)		30.45	30.49	30.54
	1 Tx Slot	30.45	30.49	30.54
GPRS/EDGE	2 Tx Slot	28.48	28.52	28.49
(GMSK)	3 Tx Slot	26.70	26.73	26.75
	4 Tx Slot	24.65	24.71	24.66

	Band	WC	WCDMA V(Capsensor Off)		
Modulation	Tx Channel	4132CH	4182CH	4233CH	
Modulation	Rx Channel	4357CH	4407CH	4458CH	
	Frequency	826.4MHz	836.4MHz	846.6MHz	
	RMC 12.2K	20.46	20.43	20.40	
BPSK	RMC 64K	20.44	20.41	20.39	
DF SK	RMC 144K	20.45	20.45	20.41	
	RMC 384K	20.50	20.48	20.39	
	HSDPA Subtest-1	20.10	20.24	20.12	
16QAM	HSDPA Subtest-2	20.09	20.21	20.16	
IOQAW	HSDPA Subtest-3	20.06	20.15	20.17	
	HSDPA Subtest-4	20.09	20.22	20.17	
	HSUPA Subtest-1	17.91	17.95	17.94	
	HSUPA Subtest-2	16.12	16.16	16.11	
16QAM	HSUPA Subtest-3	17.35	17.40	17.36	
	HSUPA Subtest-4	16.90	16.92	16.88	
	HSUPA Subtest-5	17.87	17.90	17.81	

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APPENDIX	B -	OCCUPIED	BANDWIDTH
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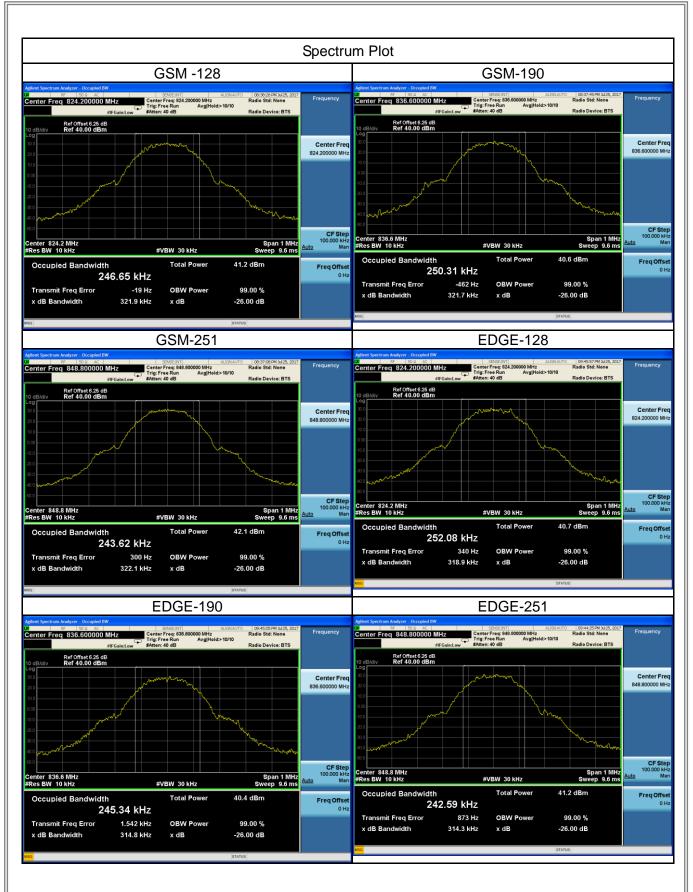




GSM850					
GSM			EDGE		
CS		8PSK			
Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)
128	824.2	246.65	128	824.2	252.08
190	836.6	250.31	190	836.6	245.34
251	848.8	243.62	251	848.8	242.59
Channel	Frequency (MHz)	26dB Bandwidth (kHz)	Channel	Frequency (MHz)	26dB Bandwidth (kHz)
128	824.2	321.9	128	824.2	318.9
190	836.6	321.7	190	836.6	314.8
251	848.8	322.1	251	848.8	314.3











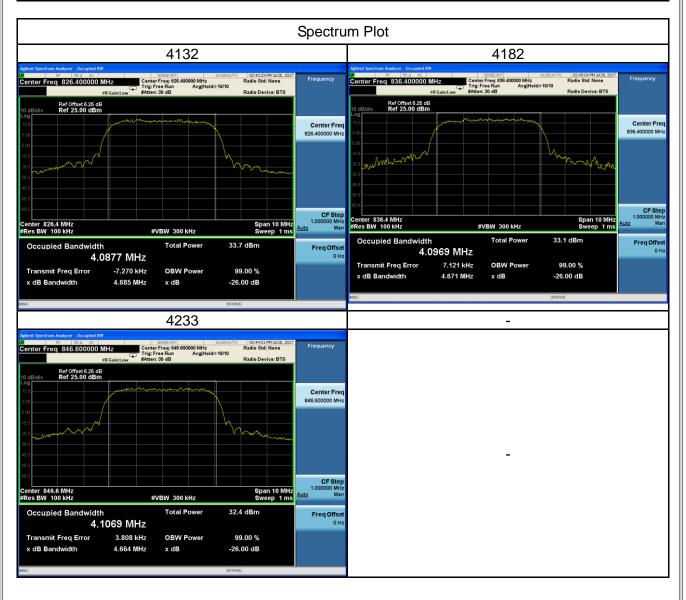
WCDMA Band V					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
4132	826.4	4.0854	4132	826.4	4.650
4182	836.4	4.1024	4182	836.4	4.663
4233	846.6	4.1135	4233	846.6	4.686







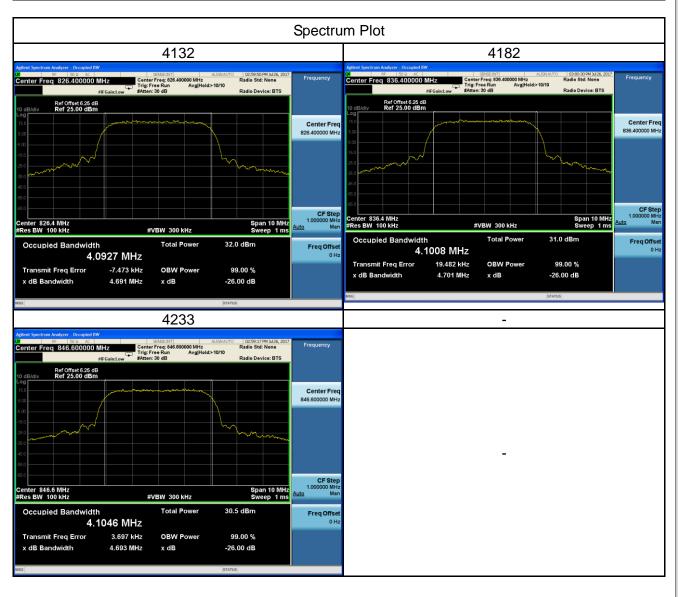
WCDMA_HSDPA Band V					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
4132	826.4	4.0877	4132	826.4	4.685
4182	836.4	4.0969	4182	836.4	4.671
4233	846.6	4.1069	4233	846.6	4.664







WCDMA_HSUPA Band V					
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)	Channel	Frequency (MHz)	26dB Bandwidth (MHz)
4132	826.4	4.0927	4132	826.4	4.691
4182	836.4	4.1008	4182	836.4	4.701
4233	846.6	4.1046	4233	846.6	4.693





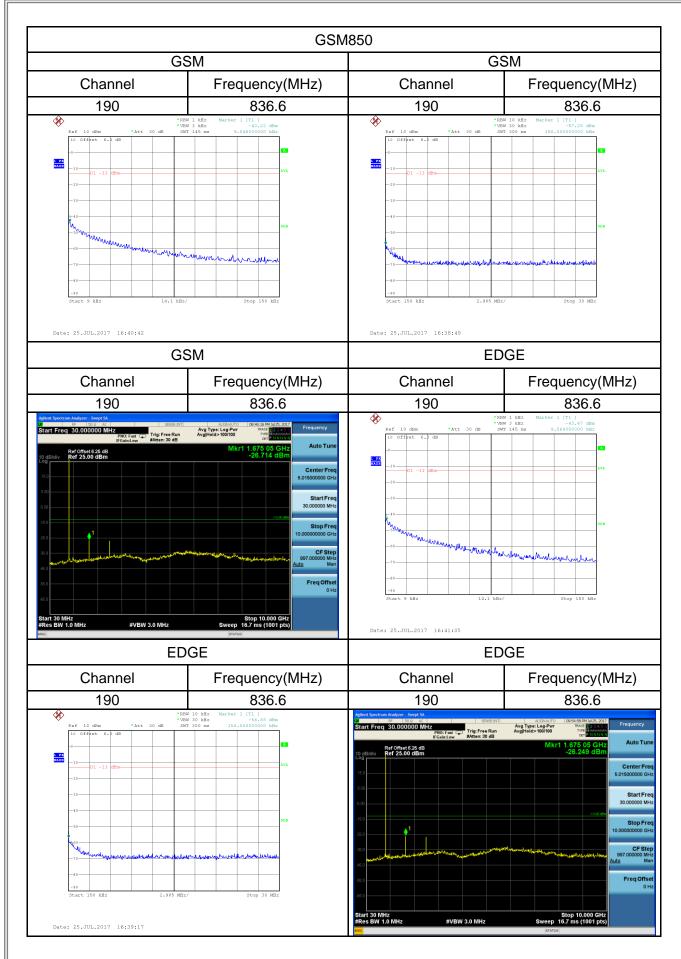


APPENDIX C -	CONDUCTED	EMISSIONS
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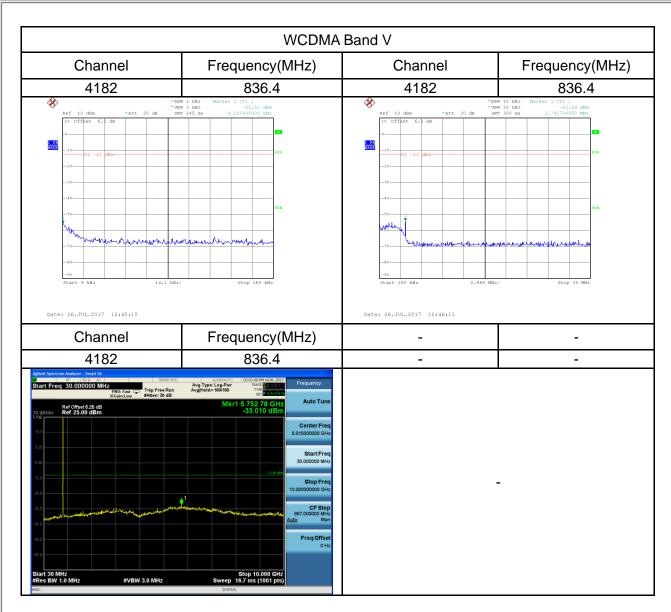






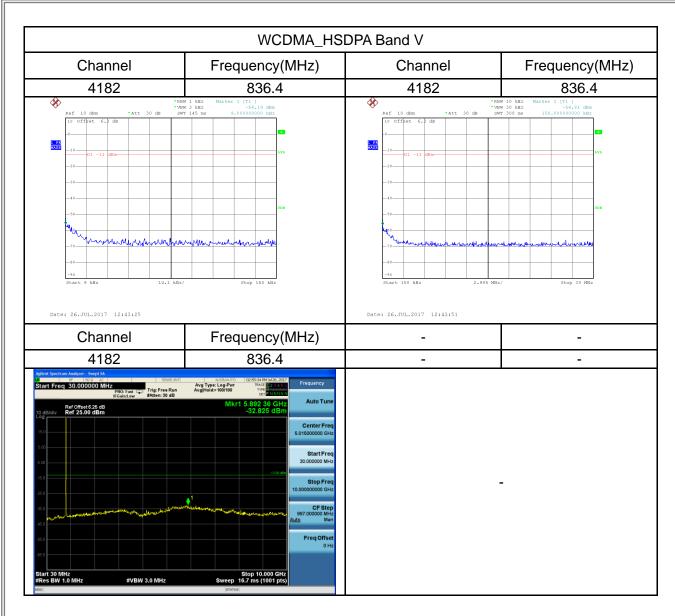






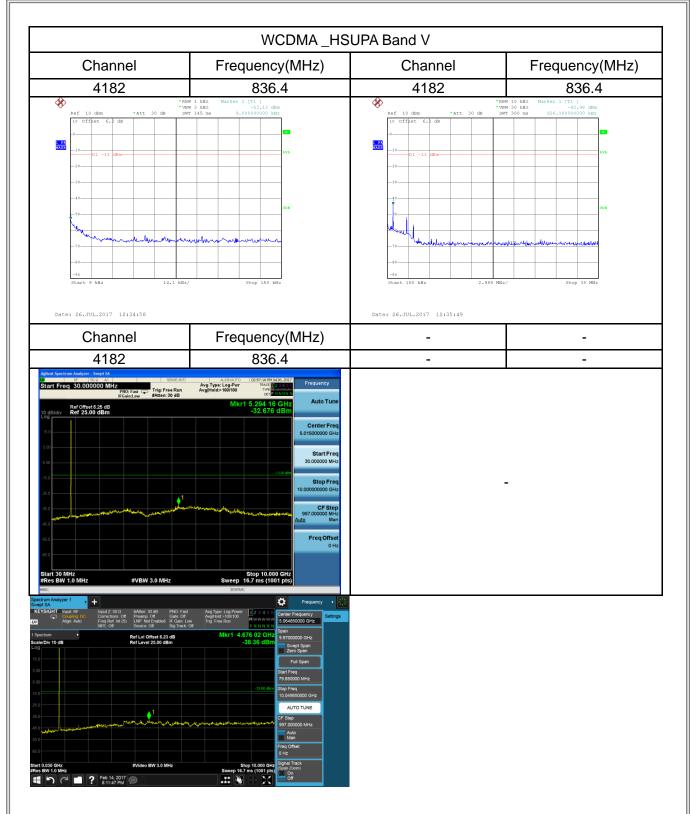














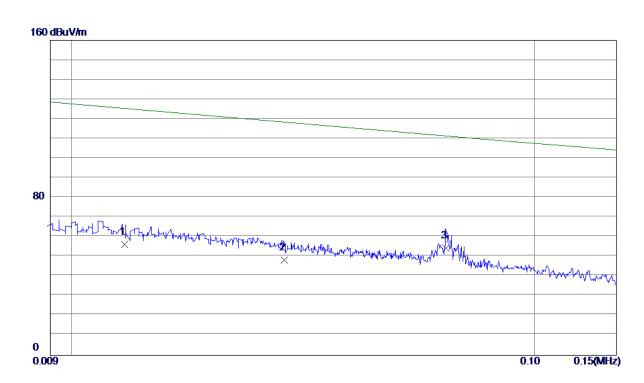


APPENDIX D - RADIATED EMISSION





Ant 0°



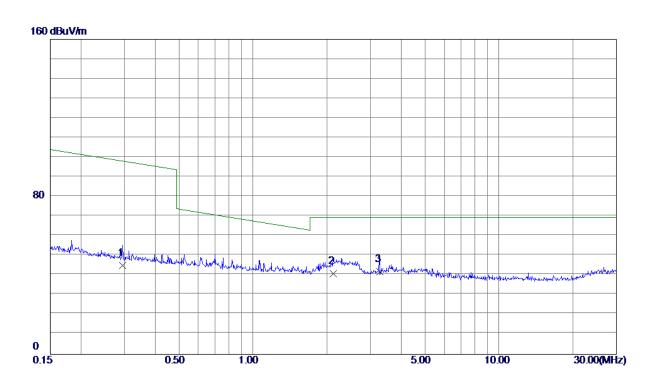
No.	Freq.	Reading Level	Correct Factor	$egin{array}{ll} ext{Measure} \ ext{ment} \end{array}$	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0130	35.88	20. 53	56.41	127.51	−71. 10	AVG	
2	0.0288	28. 97	19. 36	48. 33	123.61	-75. 28	AVG	
3 *	0.0643	35. 88	18. 44	54.32	114.84	-60. 52	AVG	

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Ant 0°



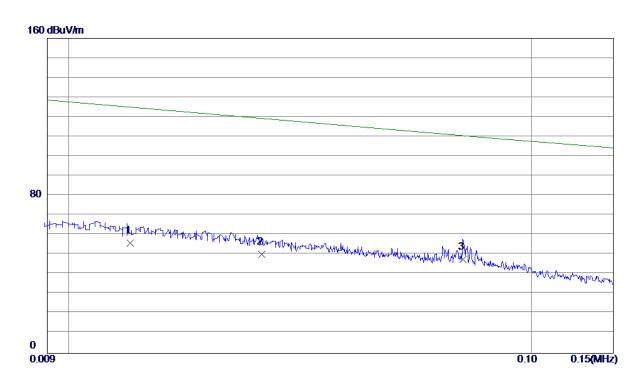
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0. 2955	28. 57	16. 62	45. 19	100.44	-55. 25	AVG	
2	2. 1213	25. 50	15. 48	40.98	69. 54	-28. 56	QP	
3 *	3. 2756	26. 68	15. 15	41.83	69. 54	-27.71	QP	

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Ant 90°



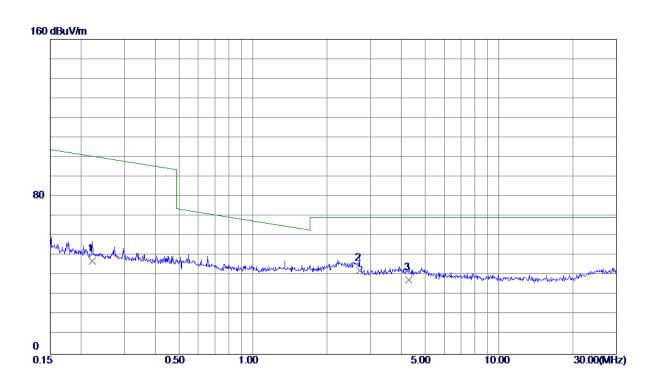
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0136	35. 47	20.45	55. 92	127.36	-71.44	AVG	
2	0.0261	30.85	19. 44	50. 29	124. 27	-73. 98	AVG	
3 *	0.0711	29. 49	18. 30	47.79	113. 16	-65. 37	AVG	

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Ant 90°



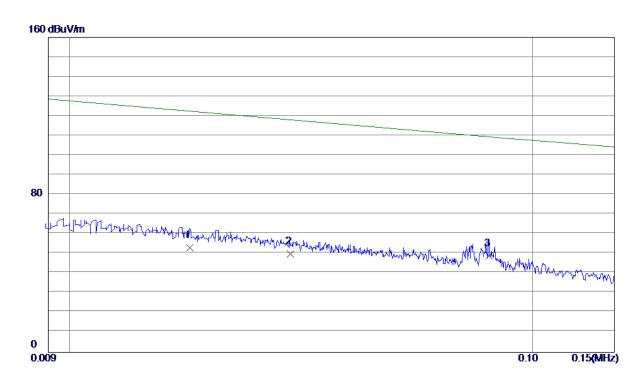
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0. 2220	30. 49	16.74	47. 23	102.95	-55. 72	AVG	
2 *	2.7212	27. 13	15. 31	42.44	69. 54	-27. 10	QP	
3	4. 2918	22. 89	14.78	37.67	69. 54	-31.87	QP	

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Ant 0°



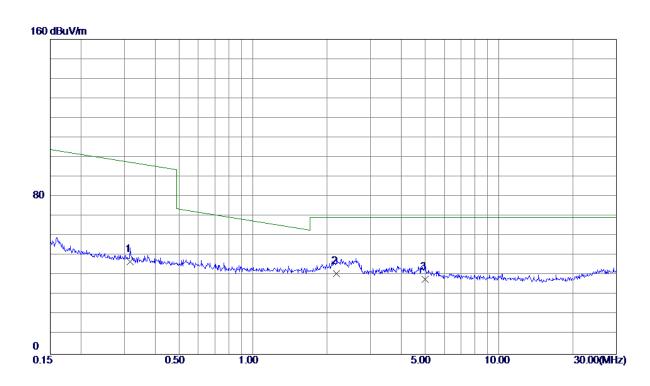
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0182	33. 22	19.85	53.07	126. 22	-73. 15	AVG	
2	0.0300	30. 49	19. 32	49.81	123. 31	-73. 50	AVG	
3 *	0.0805	30. 75	18. 09	48.84	110.84	-62.00	AVG	

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Ant 0°



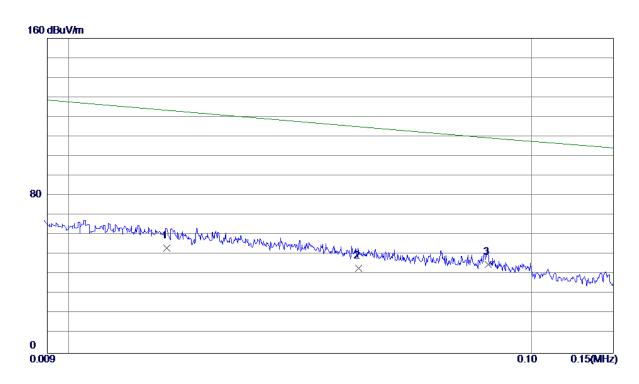
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3166	30. 36	16. 61	46. 97	99.72	-52.75	AVG	
2 *	2. 1898	25. 51	15. 46	40.97	69. 54	-28. 57	QP	
3	5.0046	23.68	14. 37	38. 05	69. 54	-31. 49	QP	

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Ant 90°



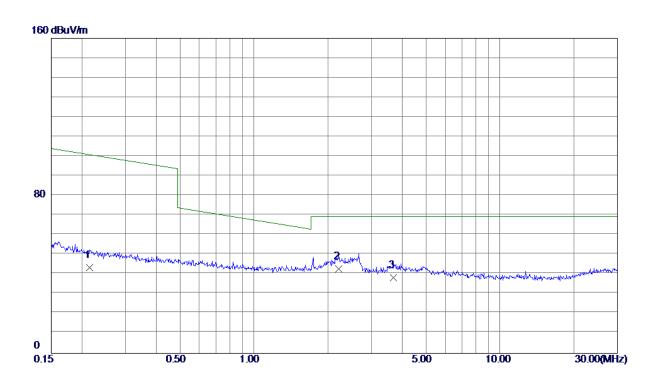
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0163	33. 32	20. 10	53.42	126.69	-73. 27	AVG	
2	0.0423	24. 36	18. 95	43. 31	120. 27	-76. 96	AVG	
3 *	0.0805	26. 98	18. 09	45. 07	110.84	-65. 77	AVG	

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Ant 90°



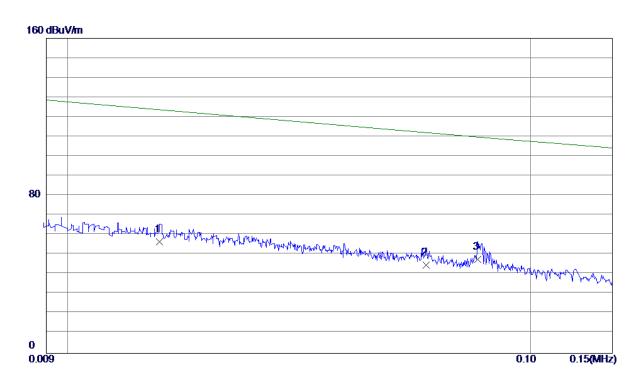
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2151	26.64	16.76	43.40	103. 19	-59. 79	AVG	
2 *	2. 2132	27.34	15. 45	42.79	69. 54	-26. 75	QP	
3	3.7001	23. 31	15. 03	38. 34	69. 54	-31. 20	QP	

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Ant 0°



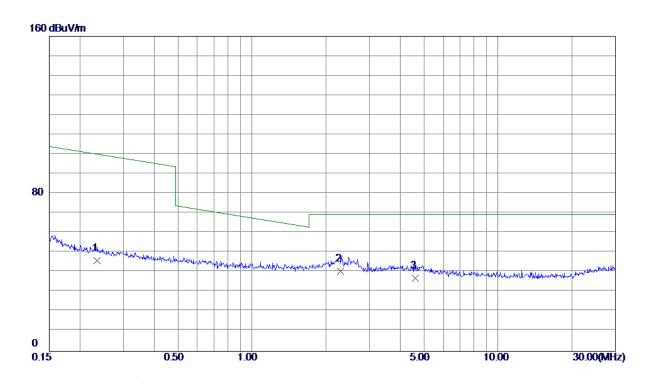
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0158	36. 51	20. 17	56. 68	126.82	−70. 14	AVG	
2	0.0594	26. 33	18. 54	44.87	116.05	-71. 18	AVG	
3 *	0.0768	29. 35	18. 18	47. 53	111. 75	-64. 22	AVG	

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Ant 0°



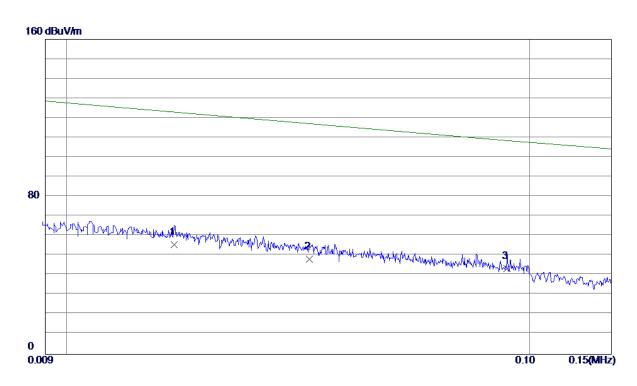
No.	Freq.	Keading Level	Correct Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0. 2353	29.45	16. 70	46. 15	102.50	-56.35	AVG	
2 *	2. 2847	25. 31	15. 43	40.74	69. 54	-28.80	QP	
3	4.6223	22.41	14. 59	37.00	69. 54	-32. 54	QP	

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Ant 90°



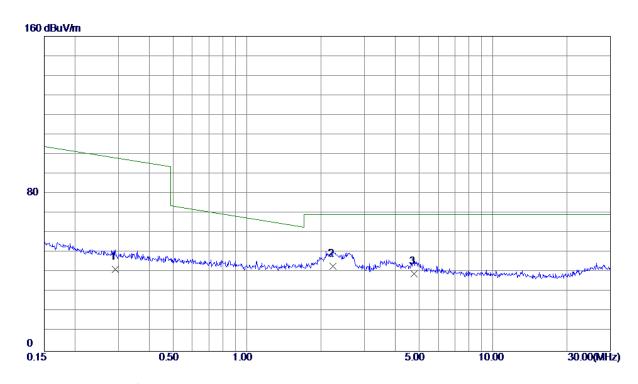
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.0171	35. 64	20.00	55. 64	126. 50	-70.86	AVG	
2	0.0335	29. 12	19. 22	48. 34	122.45	-74. 11	AVG	
3 *	0.0894	25. 68	17.88	43. 56	108.64	−65. 0 8	AVG	

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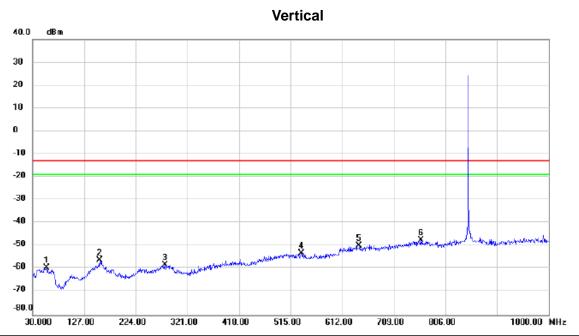
Ant 90°



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0. 2924	24.98	16.62	41.60	100.55	-58. 95	AVG	
2 *	2. 2367	27.68	15. 44	43. 12	69. 54	-26. 42	QP	
3	4.7716	24.96	14. 50	39. 46	69. 54	-30.08	QP	





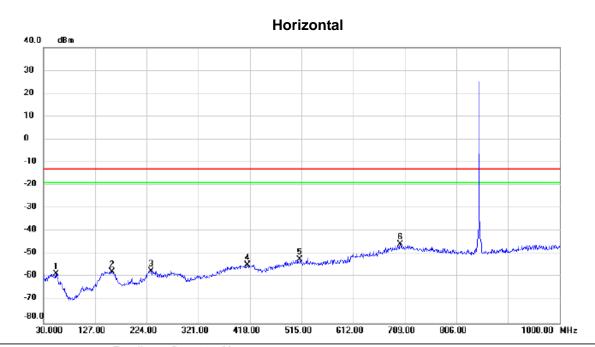


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	56.190	-71.67	12.18	-59.49	-13.00	-46.49	peak	
2	156.100	-69.44	13.17	-56.27	-13.00	-43.27	peak	
3	278.320	-70.96	12.57	-58.39	-13.00	-45.39	peak	
4	534.400	-70.65	17.48	-53.17	-13.00	-40.17	peak	
5	644.010	-69.76	19.95	-49.81	-13.00	-36.81	peak	
6 *	760.410	-69.92	22.36	-47.56	-13.00	-34.56	peak	

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	No. Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
-		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
-	1	53.280	-70.69	12.19	-58.50	-13.00	-45.50	peak	
-	2	158.040	-70.66	13.04	-57.62	-13.00	-44.62	peak	
	3	231.760	-70.33	13.10	-57.23	-13.00	-44.23	peak	
-	4	413.150	-71.15	16.54	-54.61	-13.00	-41.61	peak	
-	5	512.090	-70.45	18.07	-52.38	-13.00	-39.38	peak	
-	6 *	700.270	-69.61	23.97	-45.64	-13.00	-32.64	peak	
_									



-40

-50

-60

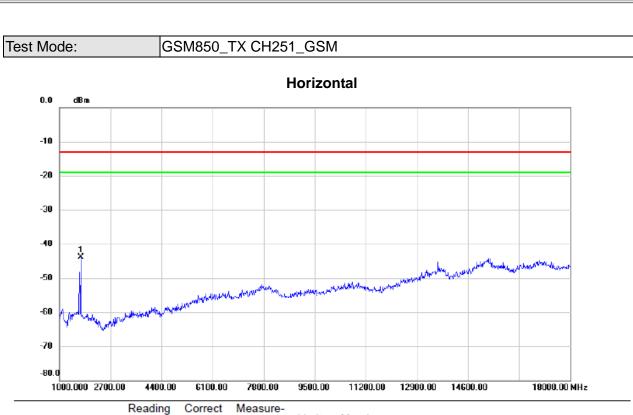


-70	V										
-80.0 10	00.000 2700.	00 4400.00	6100.00	7800.00	9500.00	11200.0	00 1290	0.00 14600.00	18000.00 MHz		
No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin					
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment			
1 *	1748.000	-63.77	7.52	-56.25	-13.00	-43.25	peak				

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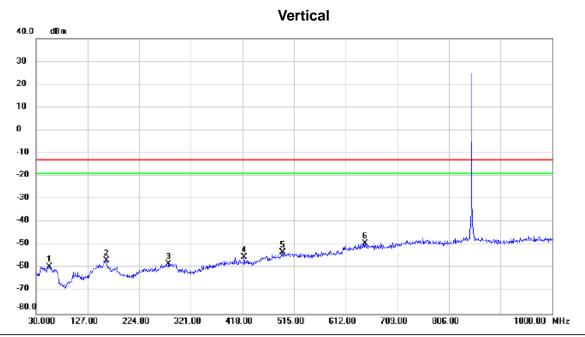




No. Mk	. Freq.			Measure- ment		Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1 *	1714.000	-52.14	8.18	-43.96	-13.00	-30.96	peak	







No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	55.220	-72.04	12.61	-59.43	-13.00	-46.43	peak	
2	161.920	-69.38	12.55	-56.83	-13.00	-43.83	peak	
3	279.290	-70.73	12.62	-58.11	-13.00	-45.11	peak	
4	420.910	-69.75	14.64	-55.11	-13.00	-42.11	peak	
5	493.660	-70.39	17.18	-53.21	-13.00	-40.21	peak	
6 *	648.860	-69.29	20.09	-49.20	-13.00	-36.20	peak	



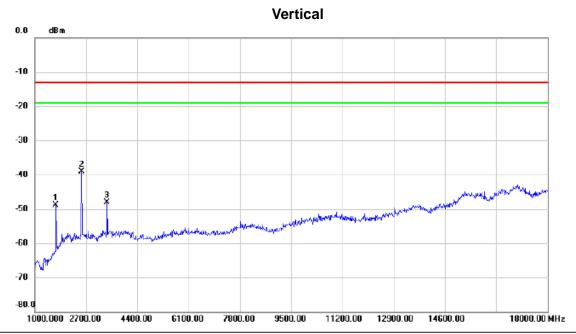


Horizontal 40.0 dBm 30 20 10 0 -10 -20 -30 -40 -50 -60 -70 -80.0 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	44.550	-71.73	12.97	-58.76	-13.00	-45.76	peak	
2	157.070	-70.36	13.19	-57.17	-13.00	-44.17	peak	
3	263.770	-69.67	12.34	-57.33	-13.00	-44.33	peak	
4	385.020	-69.65	16.04	-53.61	-13.00	-40.61	peak	
5	502.390	-70.72	18.06	-52.66	-13.00	-39.66	peak	
6 *	716.760	-69.81	23.57	-46.24	-13.00	-33.24	peak	





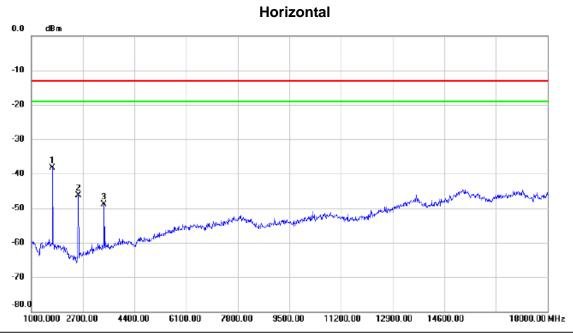


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		1697.000	-55.69	6.82	-48.87	-13.00	-35.87	peak	
2	*	2547.000	-51.34	12.22	-39.12	-13.00	-26.12	peak	
3		3397.000	-61.89	13.89	-48.00	-13.00	-35.00	peak	

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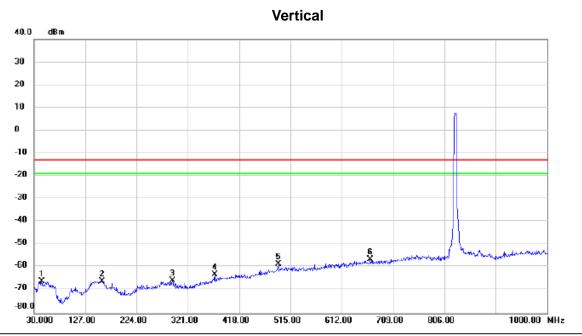
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
_			MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
_	1	*	1697.000	-46.52	8.17	-38.35	-13.00	-25.35	peak	
_	2		2547.000	-51.76	5.54	-46.22	-13.00	-33.22	peak	
_	3		3397.000	-59.05	10.23	-48.82	-13.00	-35.82	peak	

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Test Mode: WCDMA Band V_TX CH4182



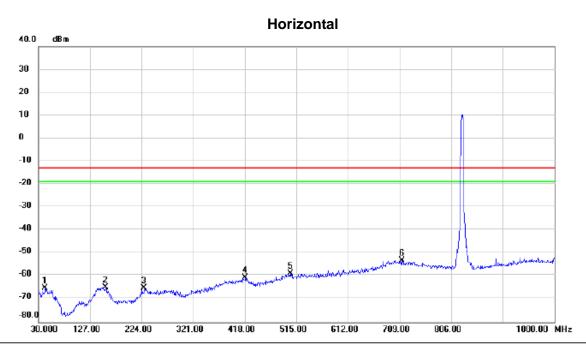
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		44.550	-78.15	11.96	-66.19	-13.00	-53.19	peak	
2		159.010	-79.18	13.18	-66.00	-13.00	-53.00	peak	
3		291.900	-77.81	11.98	-65.83	-13.00	-52.83	peak	
4		371.440	-76.48	13.40	-63.08	-13.00	-50.08	peak	
5		491.720	-75.65	17.07	-58.58	-13.00	-45.58	peak	
6	*	665.350	-76.66	20.23	-56.43	-13.00	-43.43	peak	

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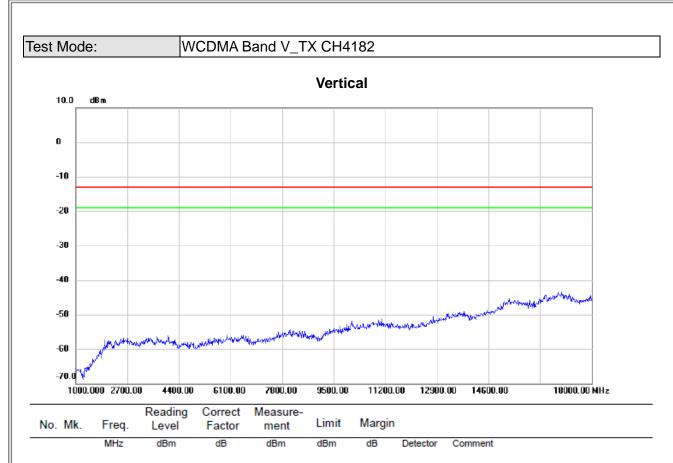
Test Mode: WCDMA Band V_TX CH4182



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	42.610	-77.74	12.59	-65.15	-13.00	-52.15	peak	
2	156.100	-78.10	13.33	-64.77	-13.00	-51.77	peak	
3	228.850	-78.17	12.94	-65.23	-13.00	-52.23	peak	
4	418.970	-77.61	16.83	-60.78	-13.00	-47.78	peak	
5	503.360	-76.98	18.06	-58.92	-13.00	-45.92	peak	
6 *	713.850	-76.78	23.64	-53.14	-13.00	-40.14	peak	
								•

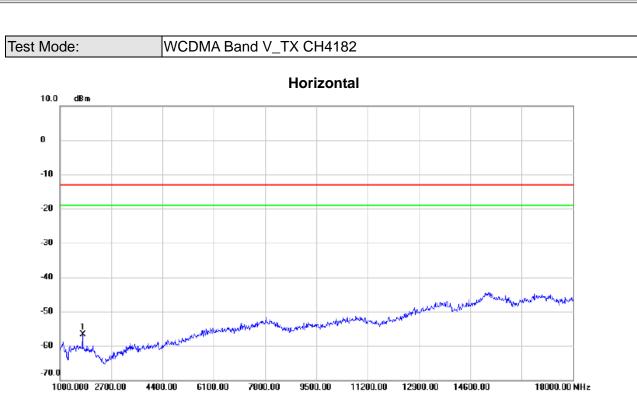








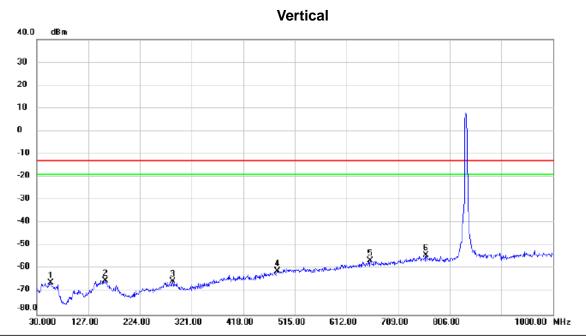




No. Mk.	Freq.			Measure- ment		Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1 *	1748.000	-64.82	8.20	-56.62	-13.00	-43.62	peak	



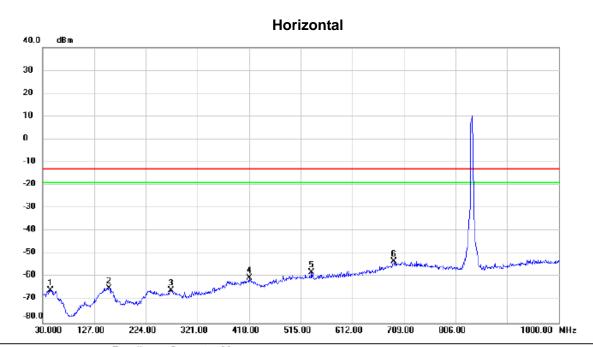




No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	56.190	-78.21	12.18	-66.03	-13.00	-53.03	peak	
2	158.040	-78.38	13.17	-65.21	-13.00	-52.21	peak	
3	285.110	-77.86	12.43	-65.43	-13.00	-52.43	peak	
4	482.020	-77.45	16.50	-60.95	-13.00	-47.95	peak	
5	656.620	-76.48	20.17	-56.31	-13.00	-43.31	peak	
6 *	761.380	-76.42	22.34	-54.08	-13.00	-41.08	peak	



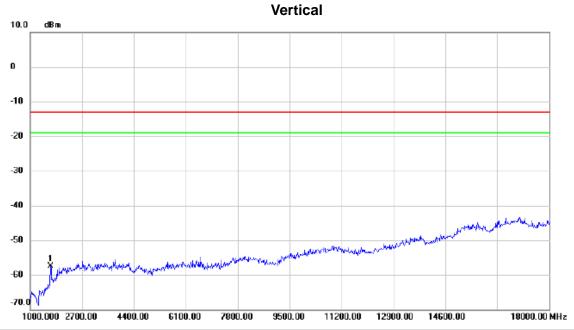




	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
			MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
	1		44.550	-78.69	12.97	-65.72	-13.00	-52.72	peak	
	2		155.130	-78.36	13.48	-64.88	-13.00	-51.88	peak	
	3		270.560	-78.64	12.99	-65.65	-13.00	-52.65	peak	
	4		418.000	-77.12	16.78	-60.34	-13.00	-47.34	peak	
	5		535.370	-75.93	18.09	-57.84	-13.00	-44.84	peak	
_	6	*	690.570	-76.36	23.34	-53.02	-13.00	-40.02	peak	





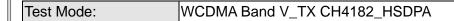


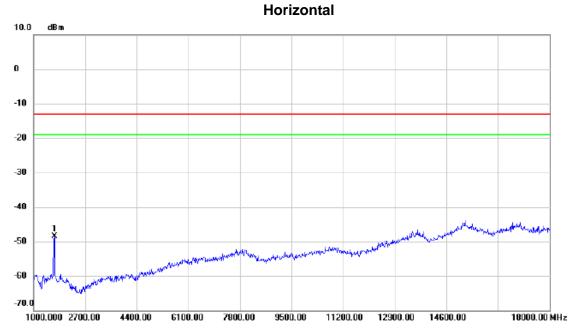
No. Mk	. Freq.			Measure- ment	Limit	Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1 *	1663.000	-63.84	6.36	-57.48	-13.00	-44.48	peak	

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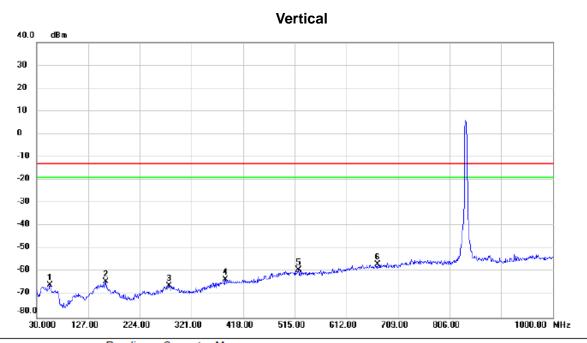


No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1 *	1680.000	-56.75	8.17	-48.58	-13.00	-35.58	peak	

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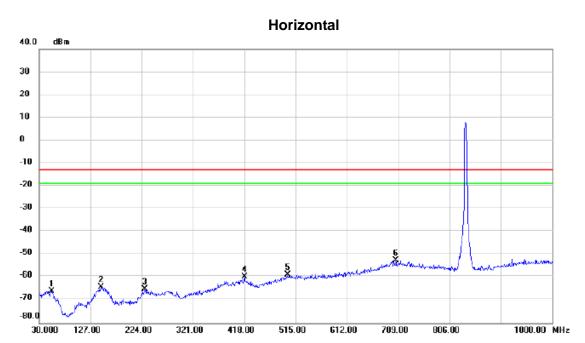


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1		55.220	-78.25	12.61	-65.64	-13.00	-52.64	peak	
2		159.980	-77.37	13.18	-64.19	-13.00	-51.19	peak	
3		278.320	-78.74	12.57	-66.17	-13.00	-53.17	peak	
4		385.020	-77.13	13.90	-63.23	-13.00	-50.23	peak	
5		521.790	-76.75	17.51	-59.24	-13.00	-46.24	peak	
6	*	670.200	-76.93	20.27	-56.66	-13.00	-43.66	peak	

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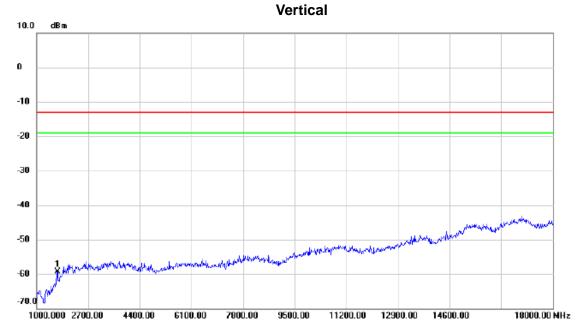




No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	53.280	-78.18	12.19	-65.99	-13.00	-52.99	peak	
2	147.370	-78.15	13.95	-64.20	-13.00	-51.20	peak	
3	229.820	-78.24	13.20	-65.04	-13.00	-52.04	peak	
4	418.000	-76.67	16.78	-59.89	-13.00	-46.89	peak	
5	499.480	-76.72	18.02	-58.70	-13.00	-45.70	peak	
6 *	704.150	-76.33	23.88	-52.45	-13.00	-39.45	peak	





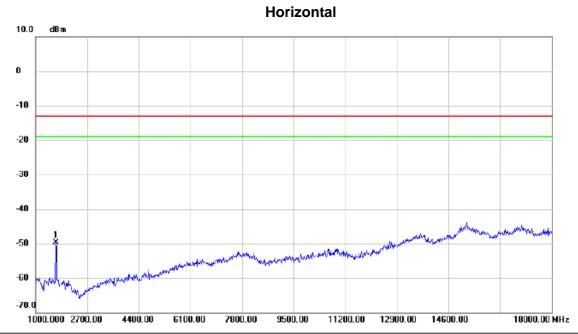


No. Mk	. Freq.	Reading Level		Measure- ment		Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1 *	1680.000	-65.80	6.59	-59.21	-13.00	-46.21	peak	

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No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1 *	1663.000	-57.83	8 16	-49.67	-13.00	-36 67	neak	



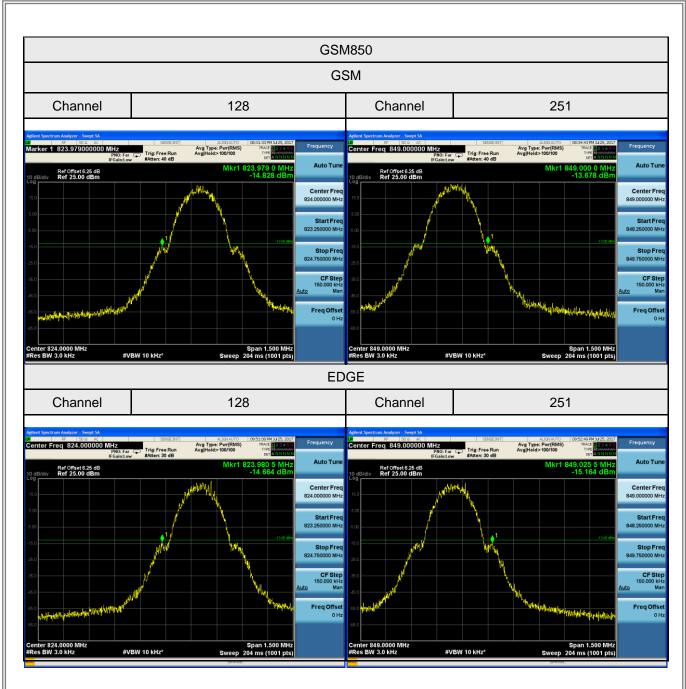


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APPENDIX E - BAND EDGE	

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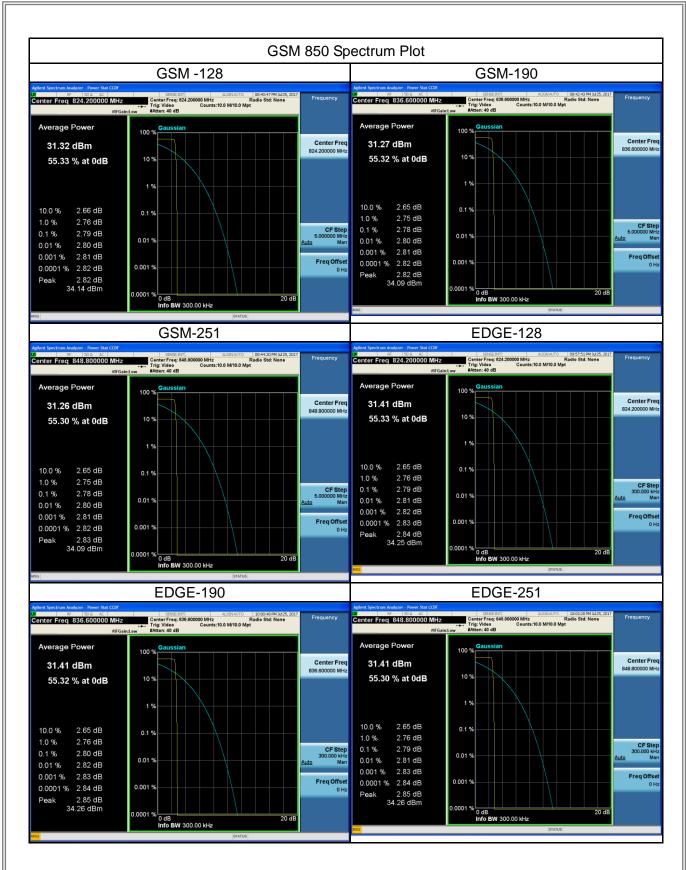


APPENDIX F - PEAK TO AVERAGE	RATIO
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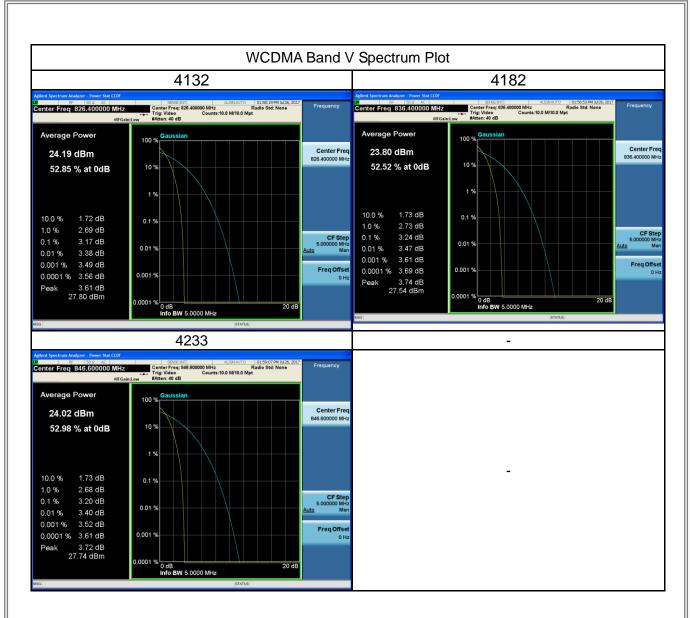






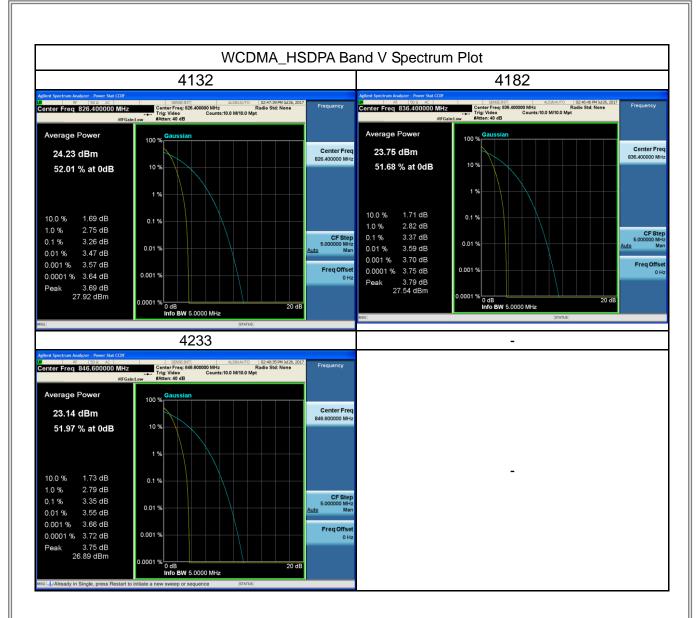






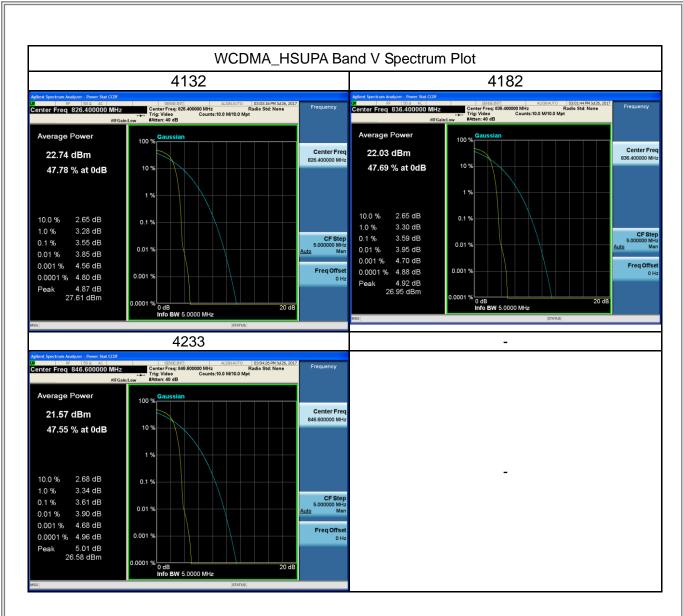
















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Test Mode: GSM850_CH190

Temperature vs. Frequency Stabiility

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	7.98	0.009682116	2.5
-20	8.32	0.010094637	2.5
-10	6.55	0.007947100	2.5
0	5.34	0.006479010	2.5
10	6.27	0.007607377	2.5
20	5.88	0.007134191	2.5
30	7.13	0.008650813	2.5
40	7.69	0.009330260	2.5
50	10.08	0.012230041	2.5
Max. Deviation (ppm)	10.08	0.012230041	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.5	8.17	0.009912643	2.5
3.7	7.32	0.008881339	2.5
4.2	8.01	0.009718515	2.5
Max. Deviation (ppm)	8.17	0.009912643	2.5

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Test Mode: WCDMA Band 5_CH4182

Temperature vs. Frequency Stabiility

Temperature(°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
-30	9.07	0.010844094	2.5
-20	7.33	0.008763749	2.5
-10	8.29	0.009911526	2.5
0	8.51	0.010174558	2.5
10	6.39	0.007639885	2.5
20	7.48	0.008943089	2.5
30	7.26	0.008680057	2.5
40	6.19	0.007400765	2.5
50	10.07	0.012039694	2.5
Max. Deviation (ppm)	10.07	0.012039694	2.5

Voltage vs. Frequency Stability

Voltage(Volts)	Frequency Error (Hz)	Frequency Error (ppm)	Limit(ppm)
3.5	8.94	0.010688666	2.5
3.7	7.69	0.009194165	2.5
4.2	8.57	0.010246294	2.5
Max. Deviation (ppm)	8.94	0.010688666	2.5

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